

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smartphone

Test Model: HY65PB1401NA



立讯检测股份
LCS Testing Lab



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Environmental Conditions

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



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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	0.942	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.942	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.921	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.29	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.299	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.305	N/A	Pass

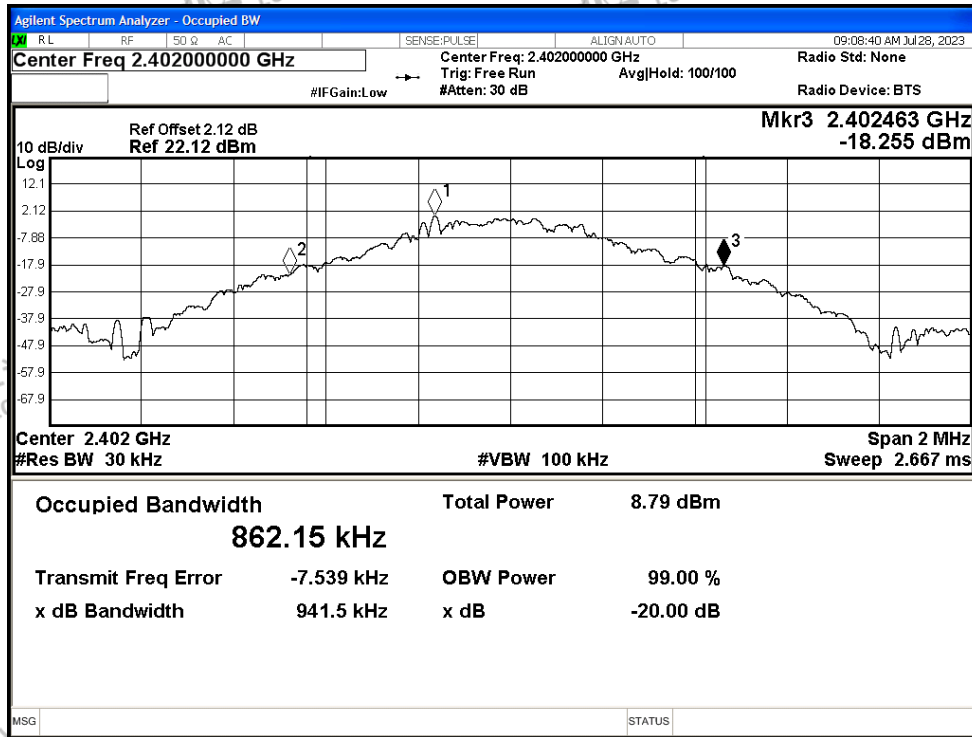


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Scan code to check authenticity

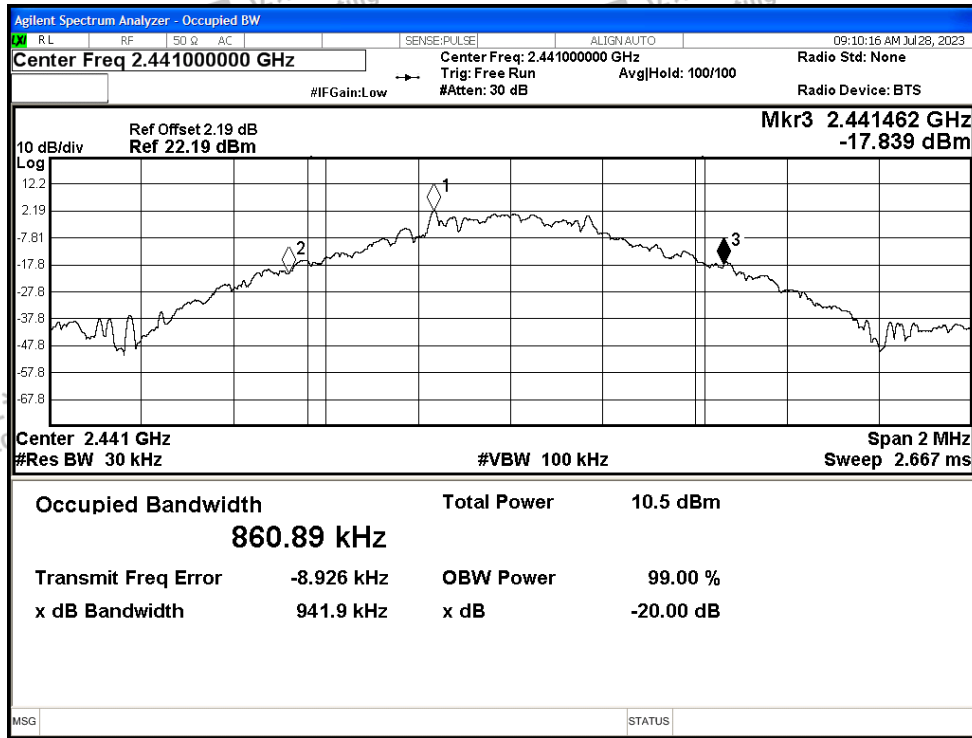


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

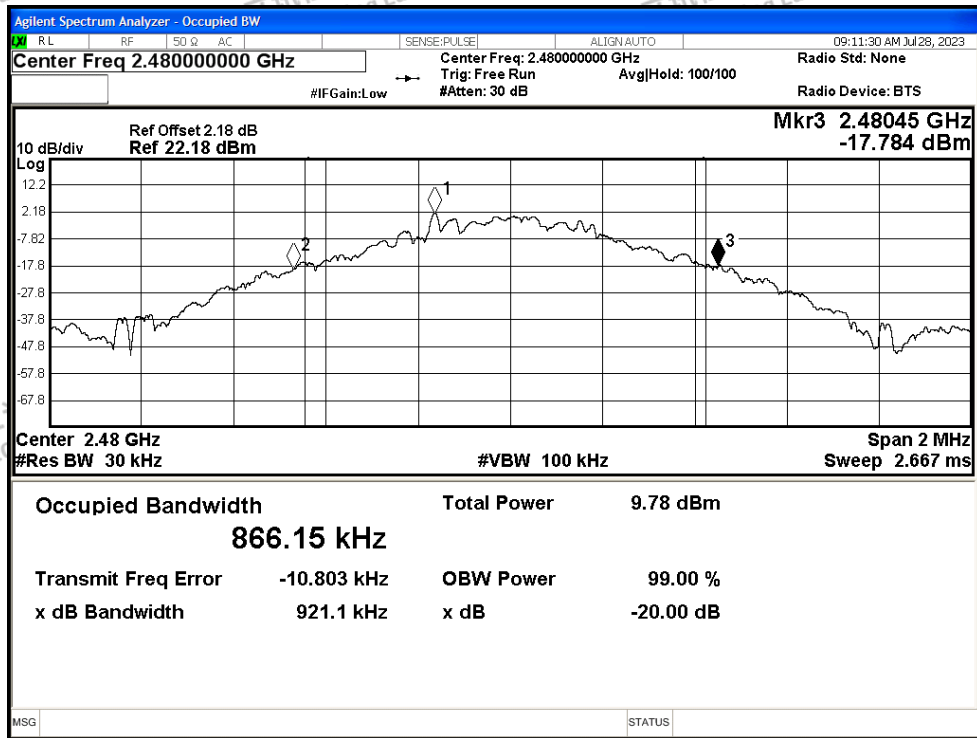


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

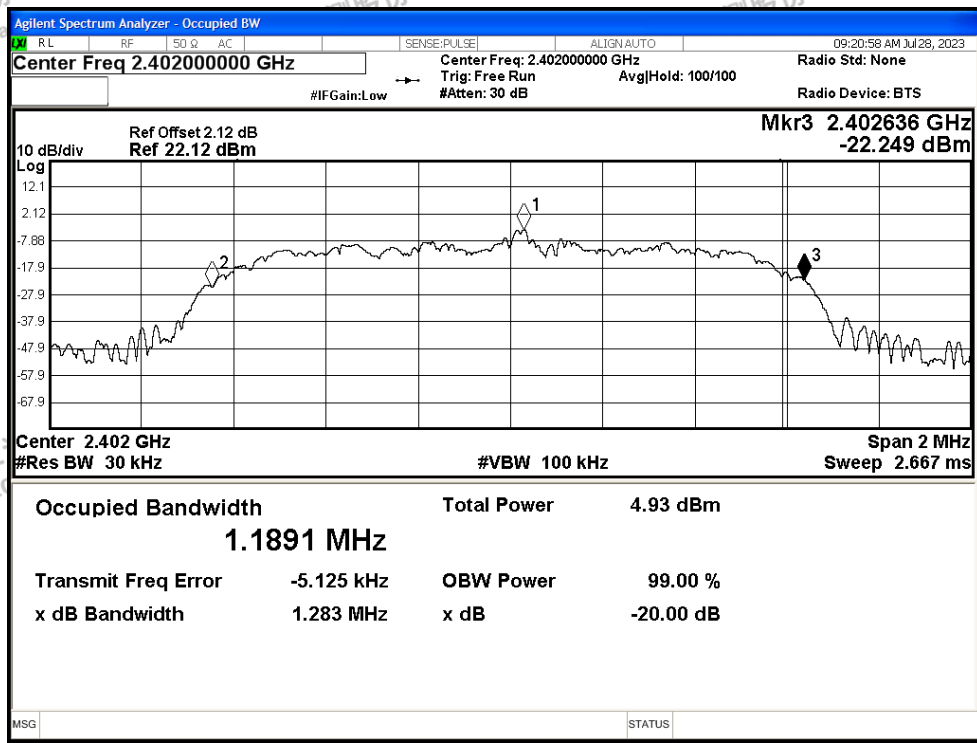




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

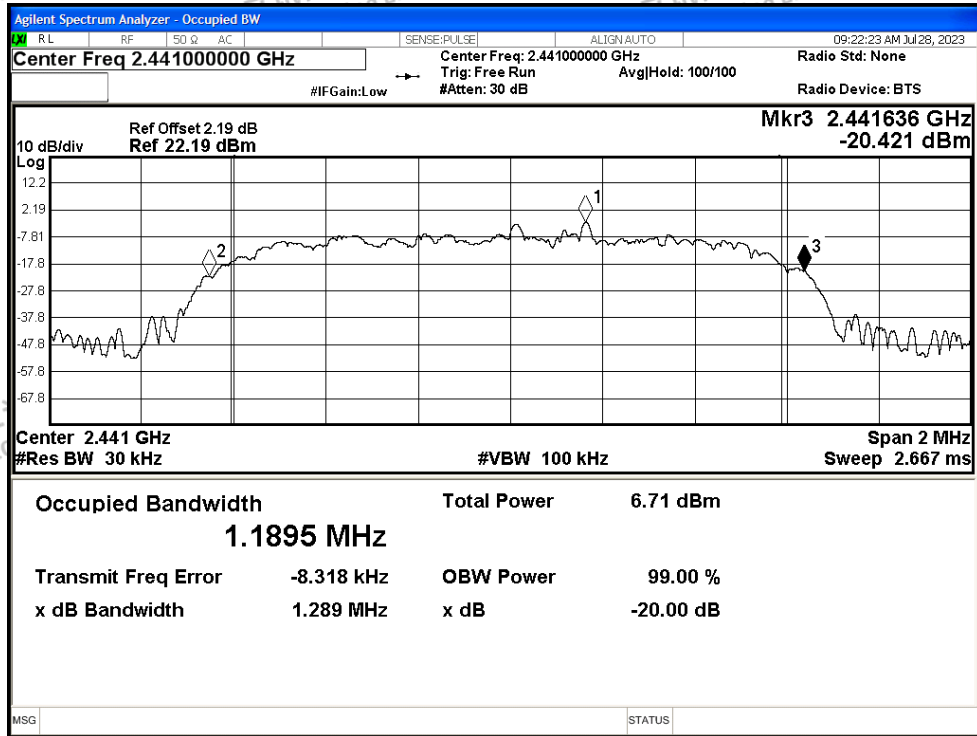


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

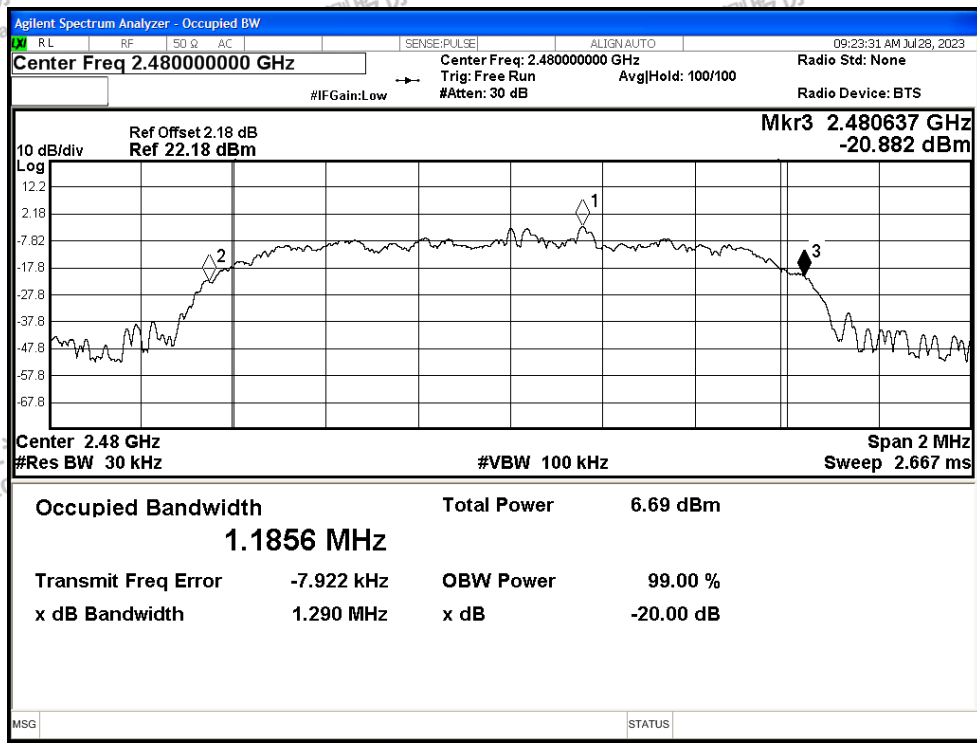




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

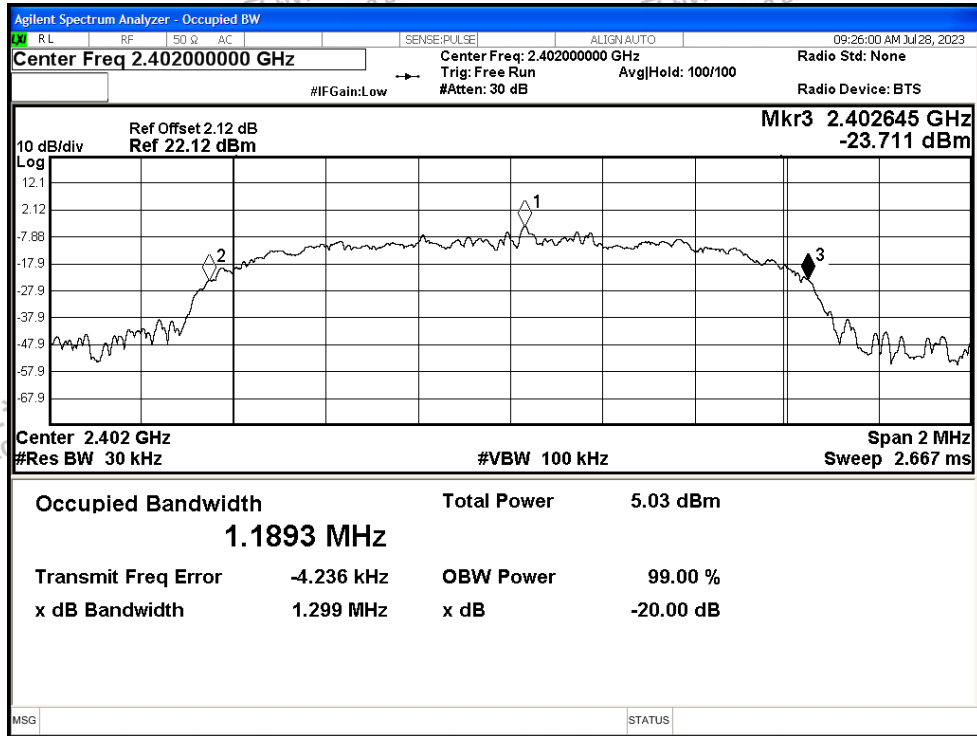


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

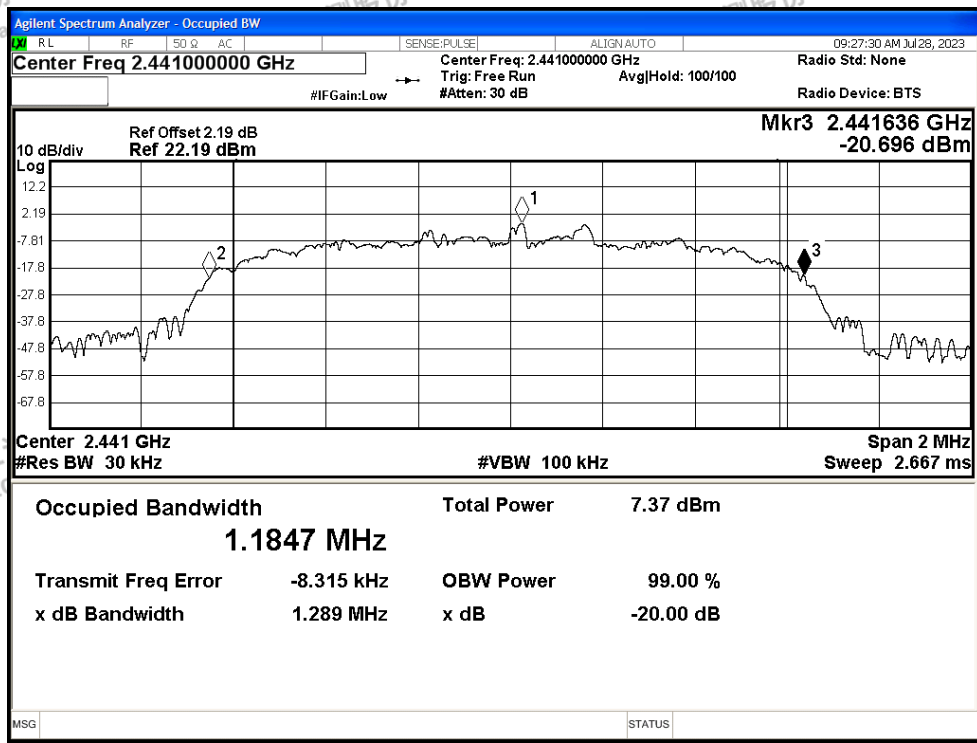




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

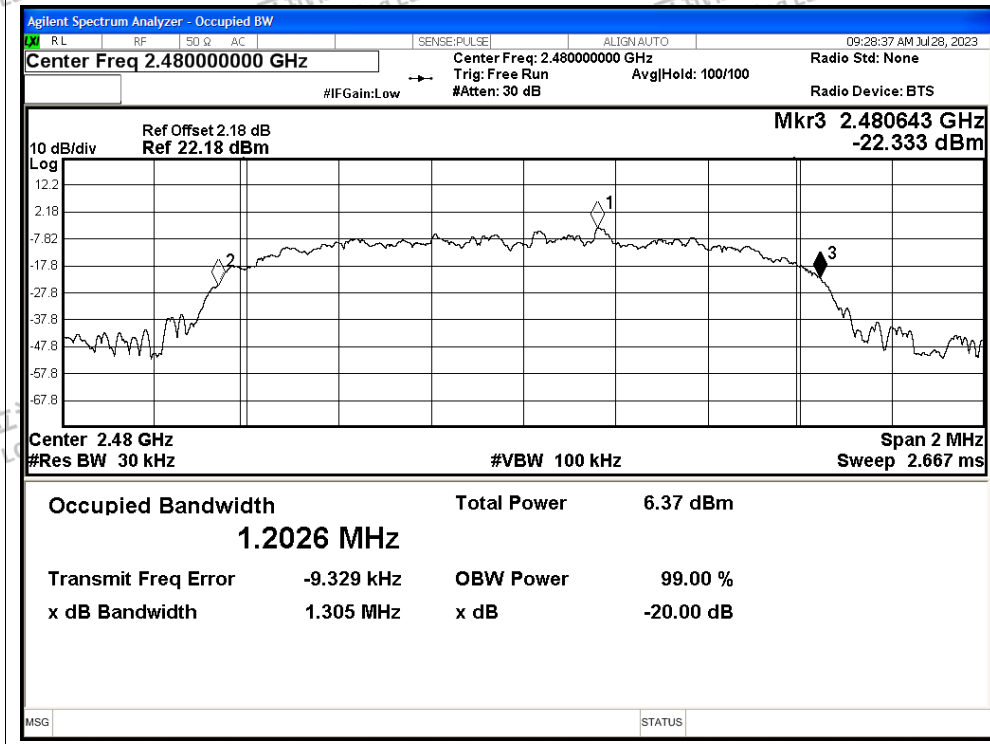


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

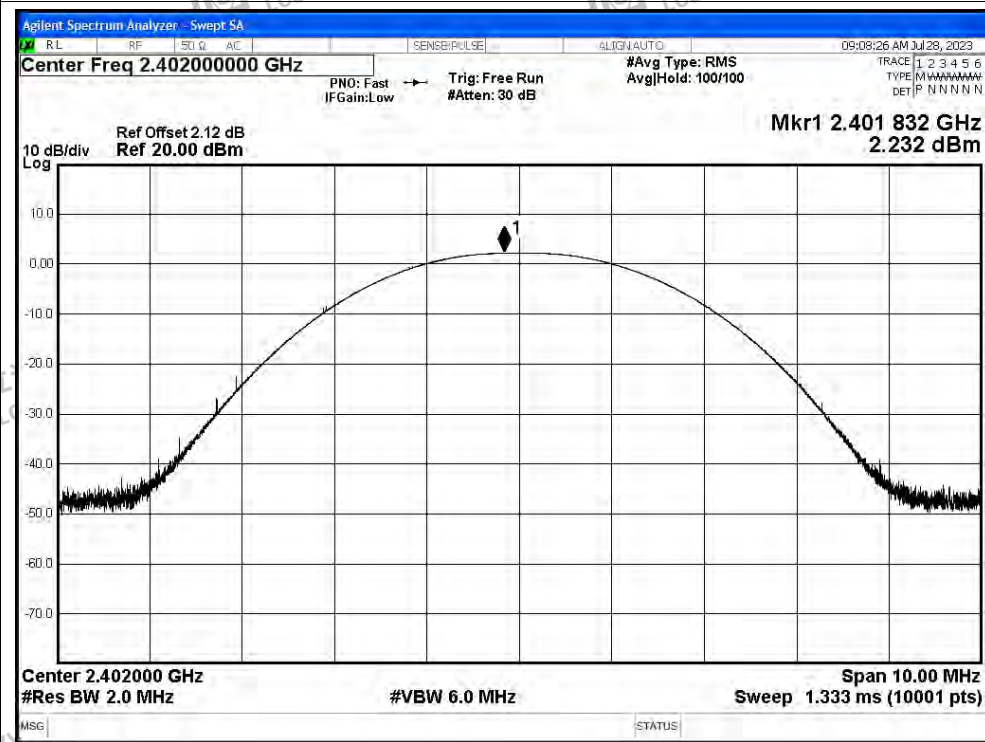
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.23	21	Pass
NVNT	1-DH5	2441	Ant1	3.95	21	Pass
NVNT	1-DH5	2480	Ant1	3.51	21	Pass
NVNT	2-DH5	2402	Ant1	0.92	21	Pass
NVNT	2-DH5	2441	Ant1	2.79	21	Pass
NVNT	2-DH5	2480	Ant1	2.39	21	Pass
NVNT	3-DH5	2402	Ant1	1.37	21	Pass
NVNT	3-DH5	2441	Ant1	3.21	21	Pass
NVNT	3-DH5	2480	Ant1	2.76	21	Pass



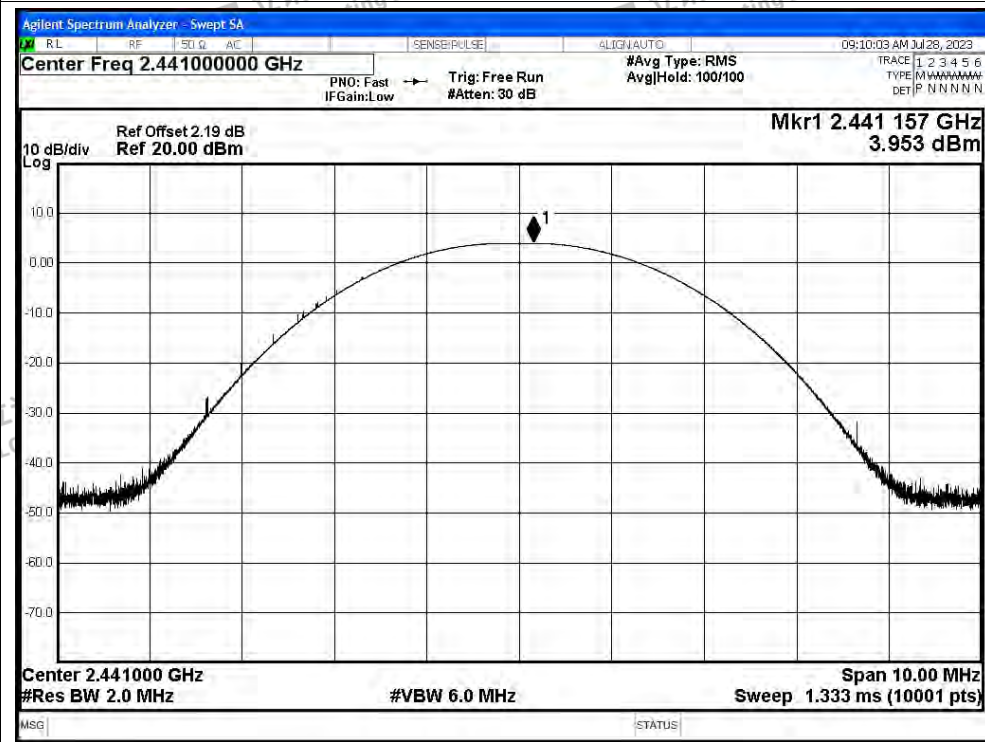


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

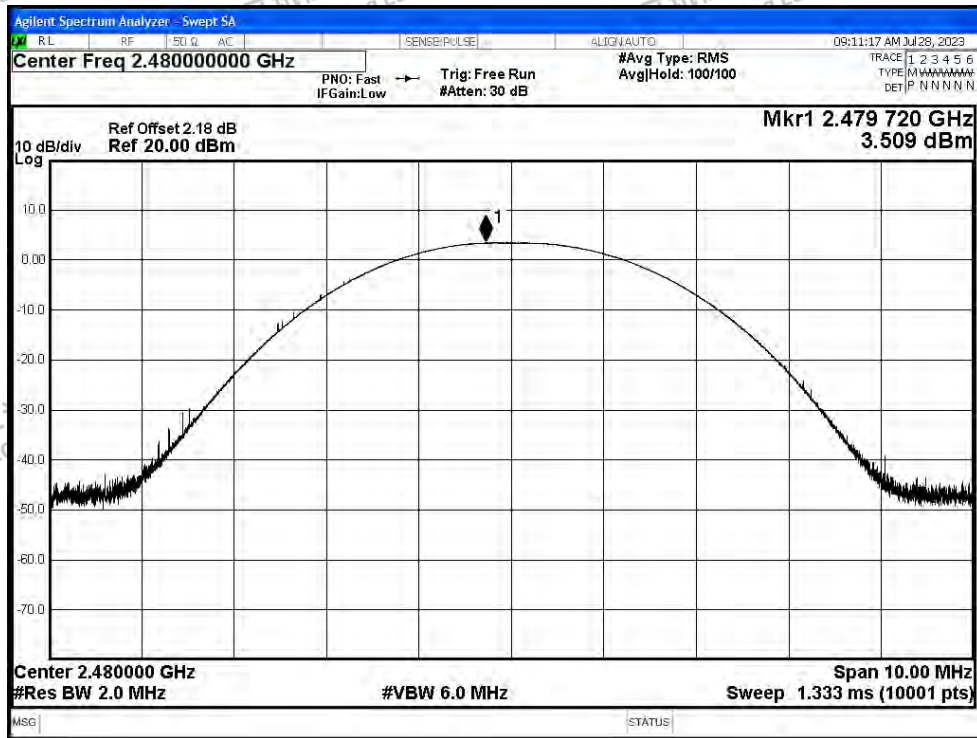


Power NVNT 1-DH5 2441MHz Ant1

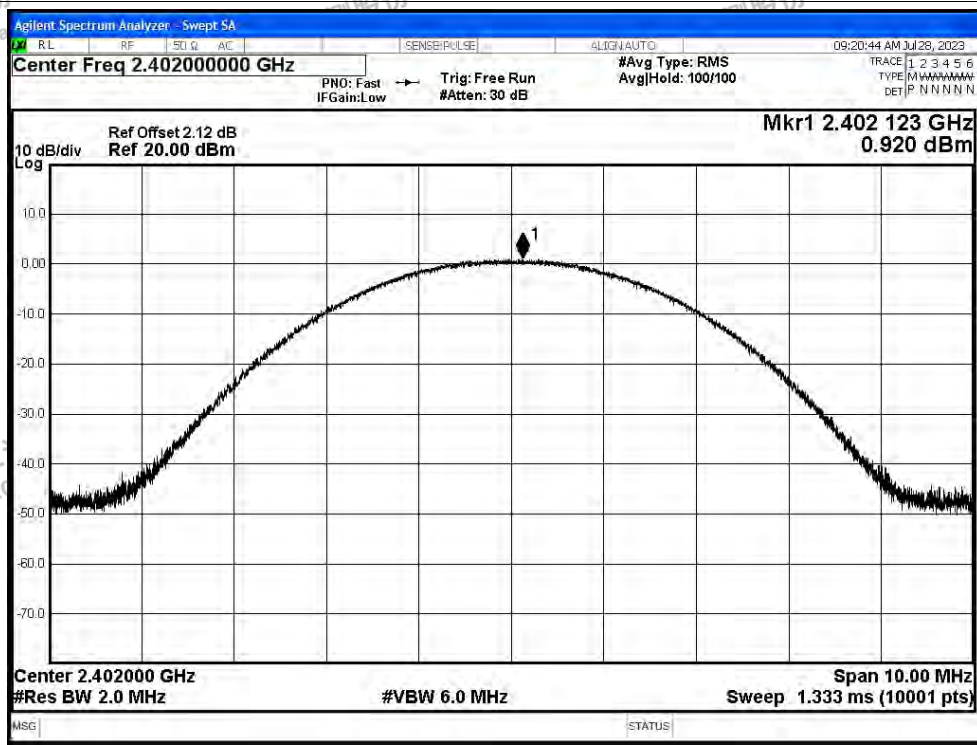




Power NVNT 1-DH5 2480MHz Ant1

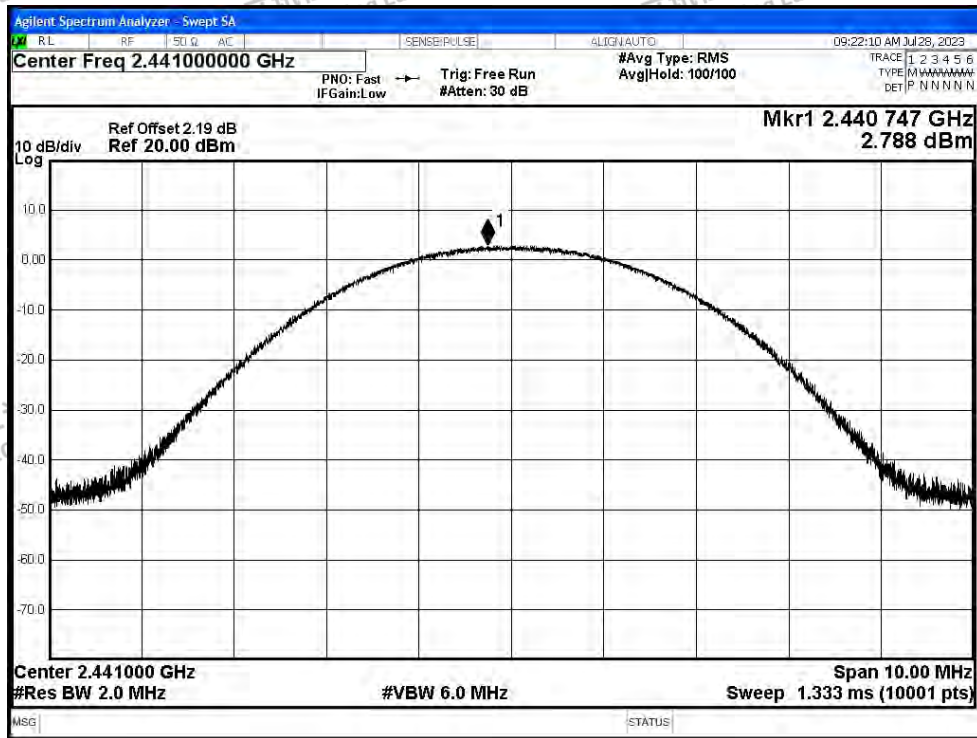


Power NVNT 2-DH5 2402MHz Ant1

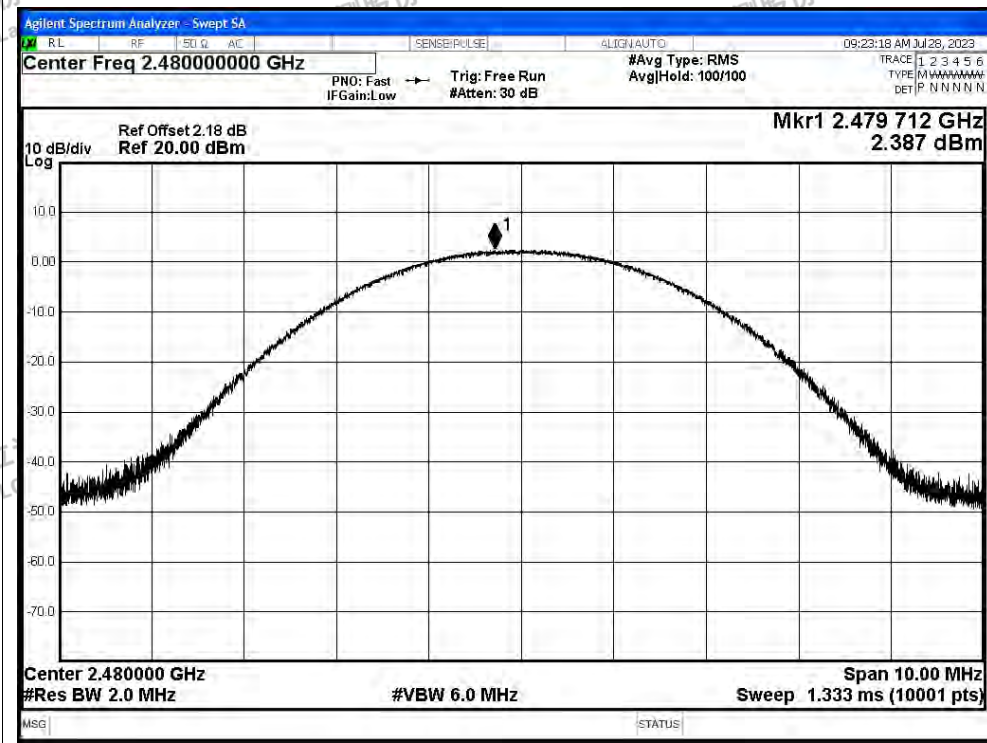




Power NVNT 2-DH5 2441MHz Ant1

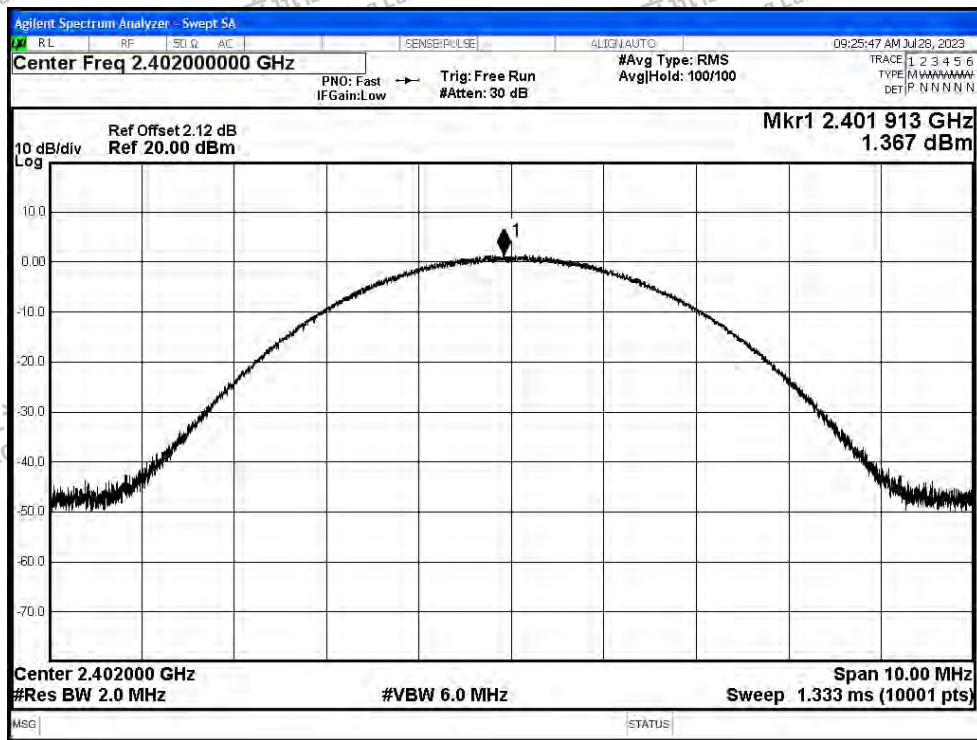


Power NVNT 2-DH5 2480MHz Ant1

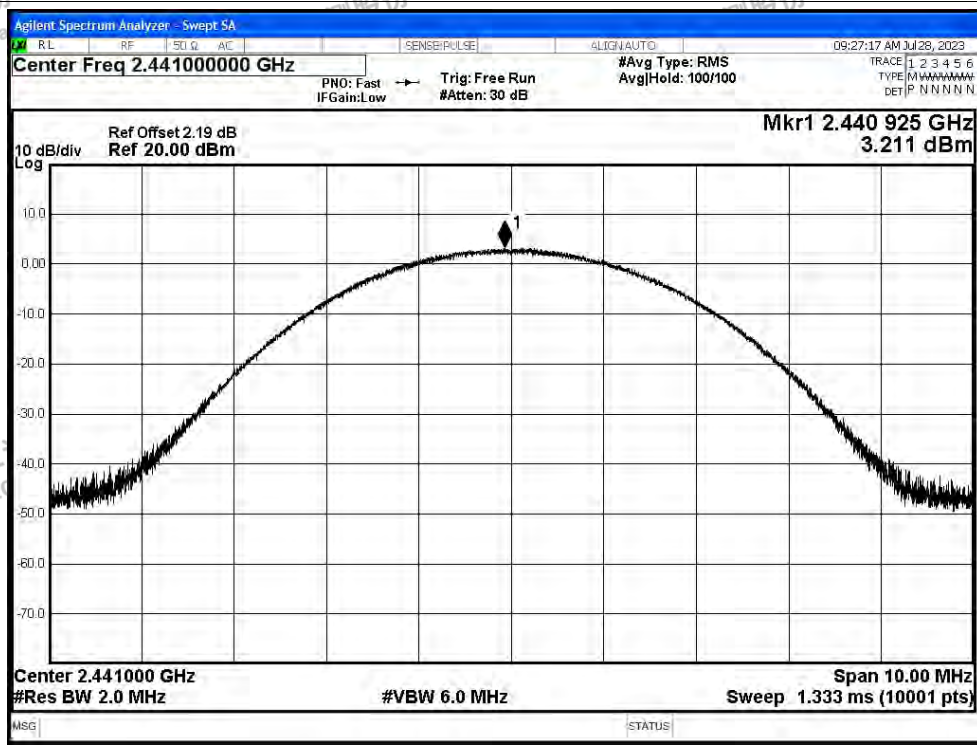




Power NVNT 3-DH5 2402MHz Ant1

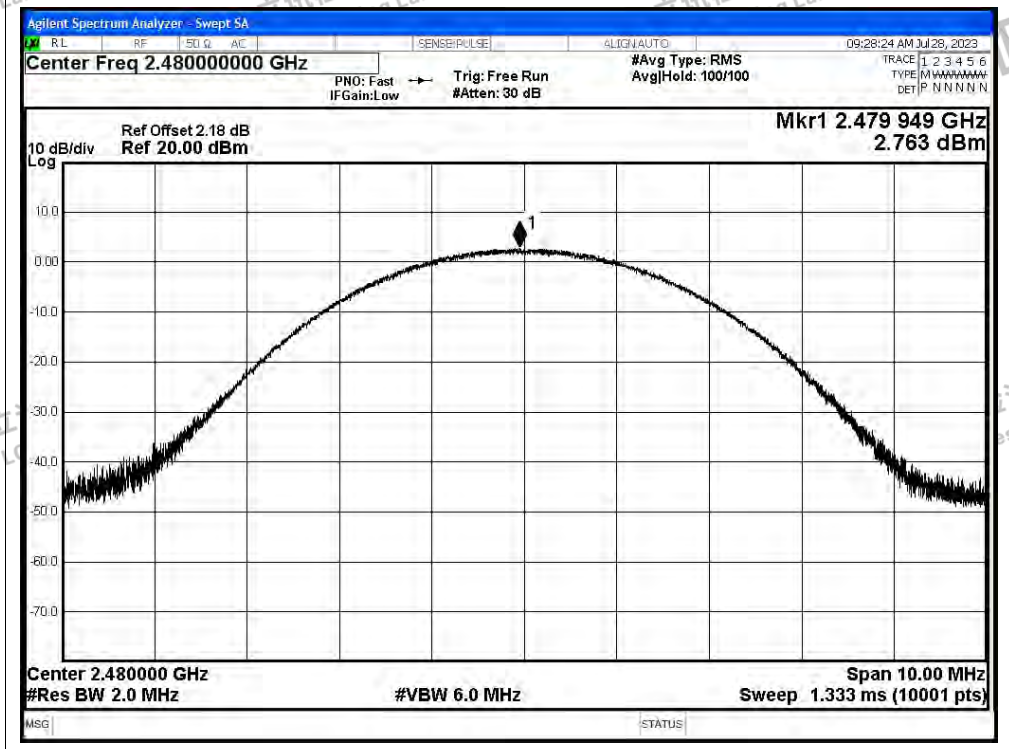


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.836	2402.826	0.99	0.628	Pass
NVNT	2-DH5	Ant1	2402.02	2403.162	1.142	0.860	Pass
NVNT	3-DH5	Ant1	2402.024	2403.026	1.002	0.870	Pass

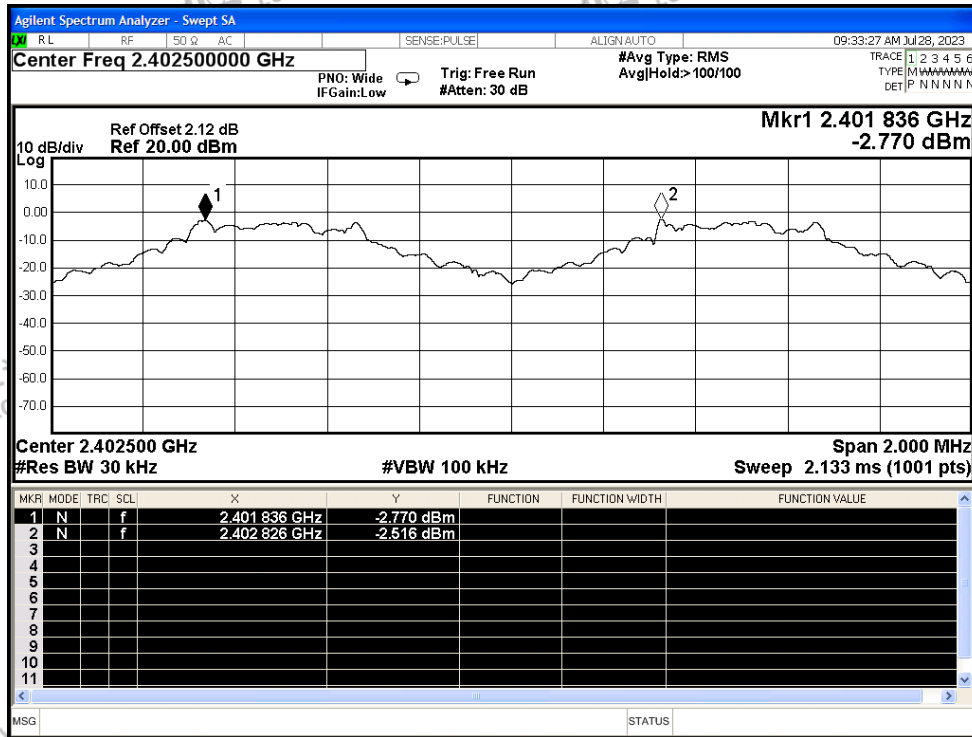


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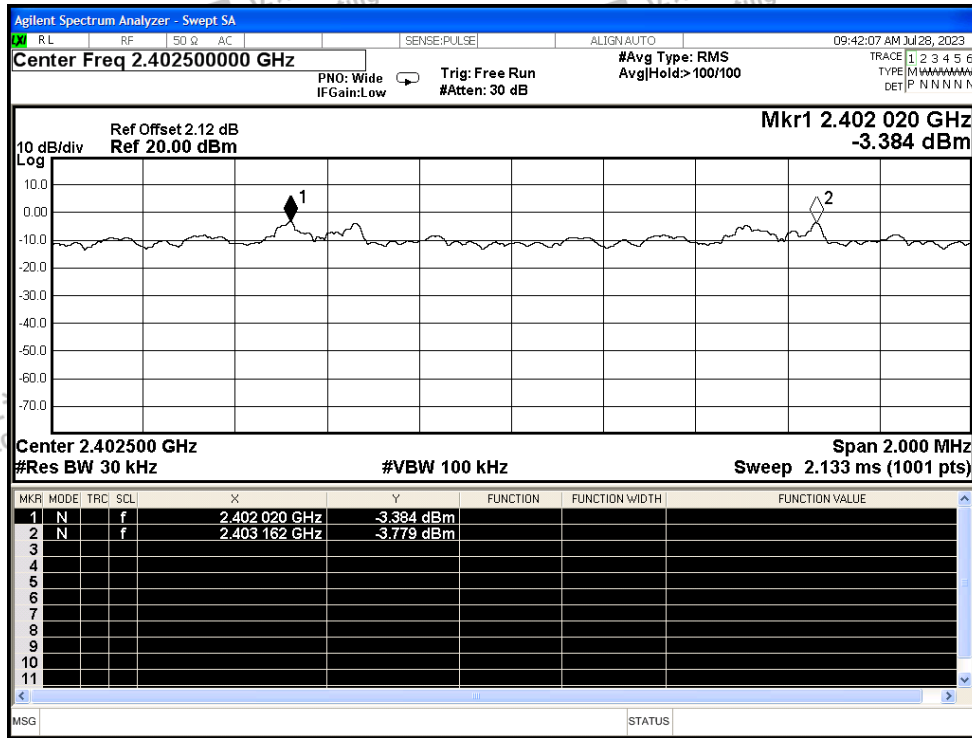


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

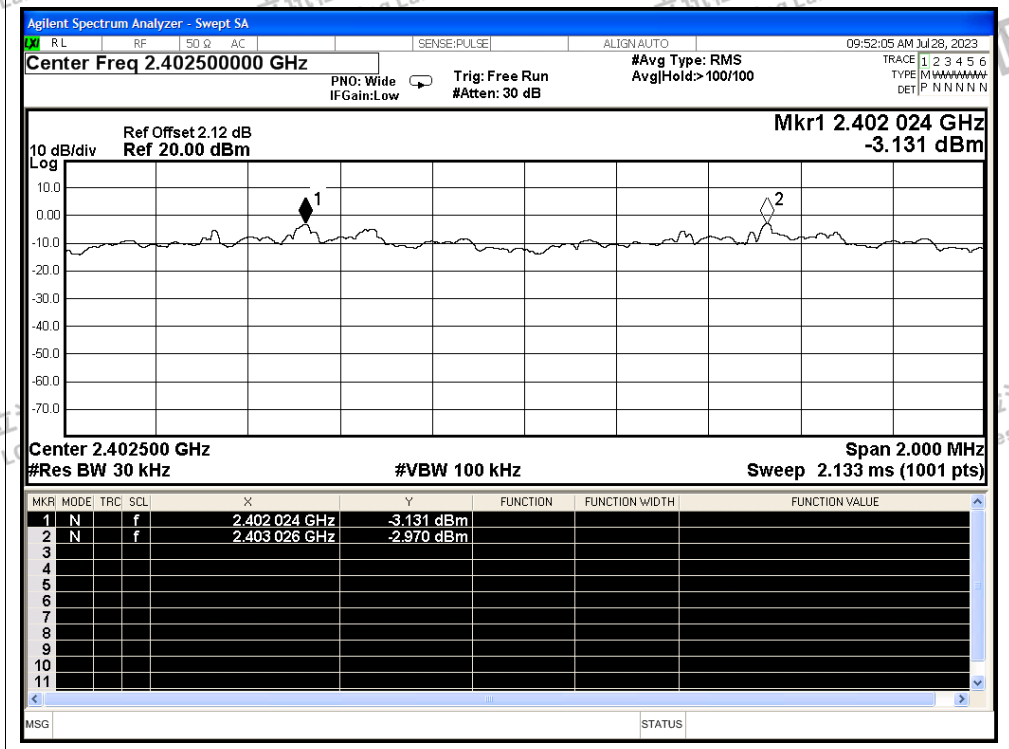


CFS NVNT 2-DH5 2402MHz Ant1





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	2.896	306.976	106	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	271.19	94	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.883	314.247	109	31600	400	Pass

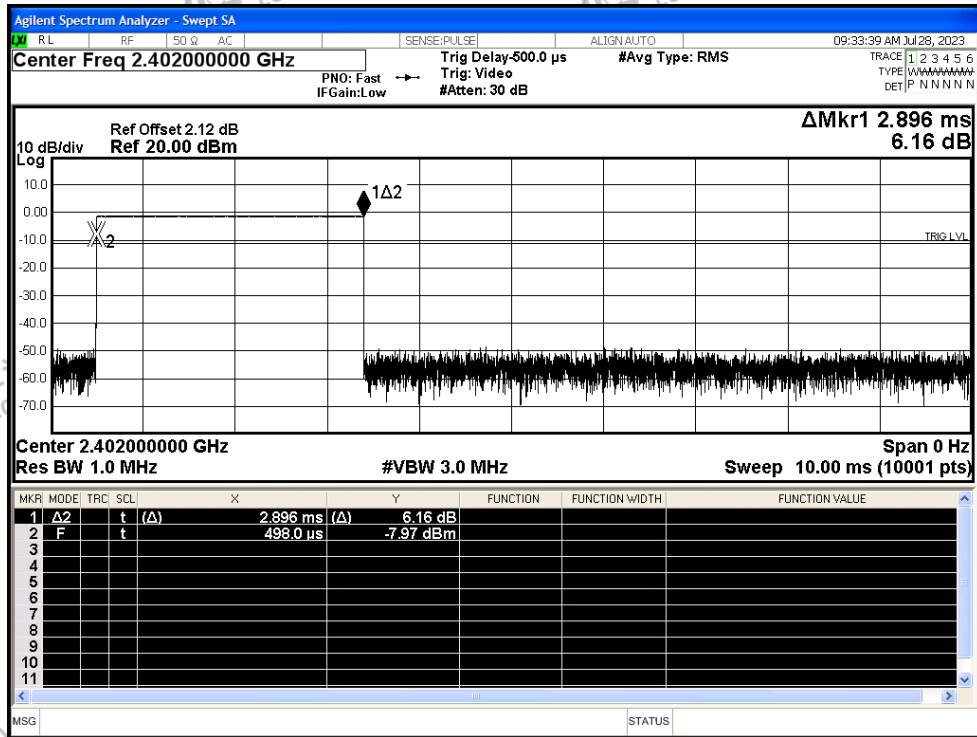


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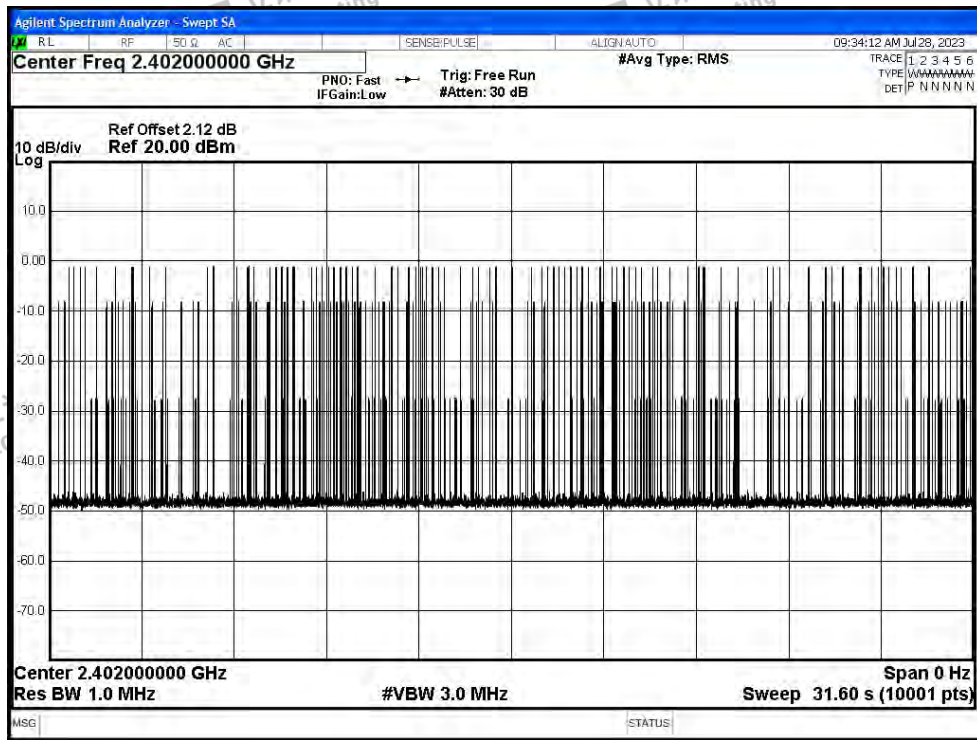


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

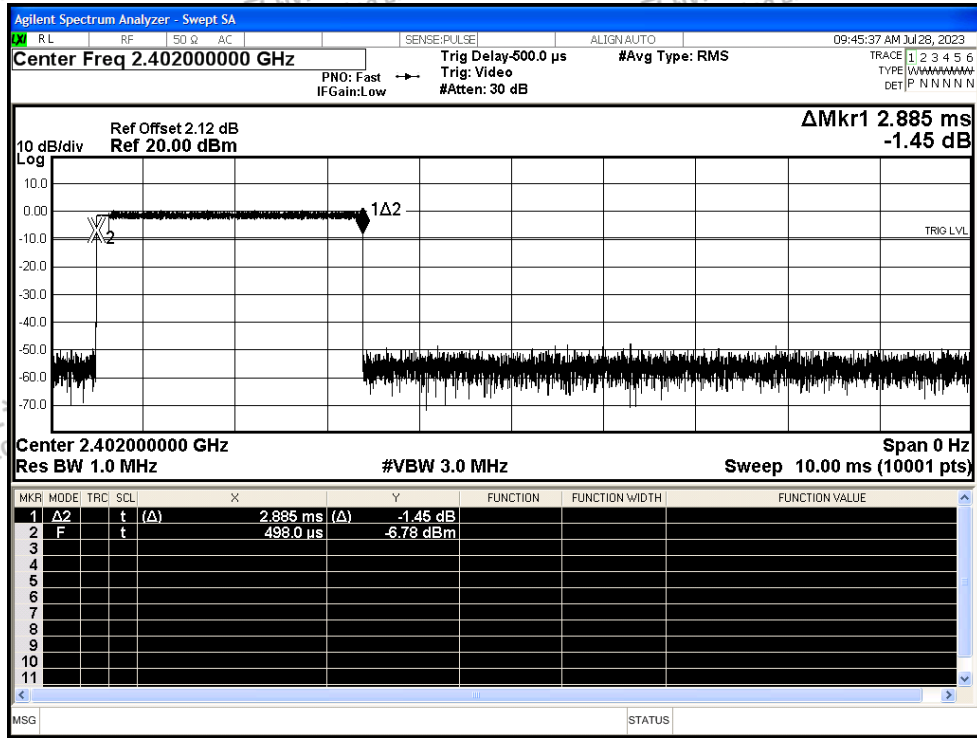


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

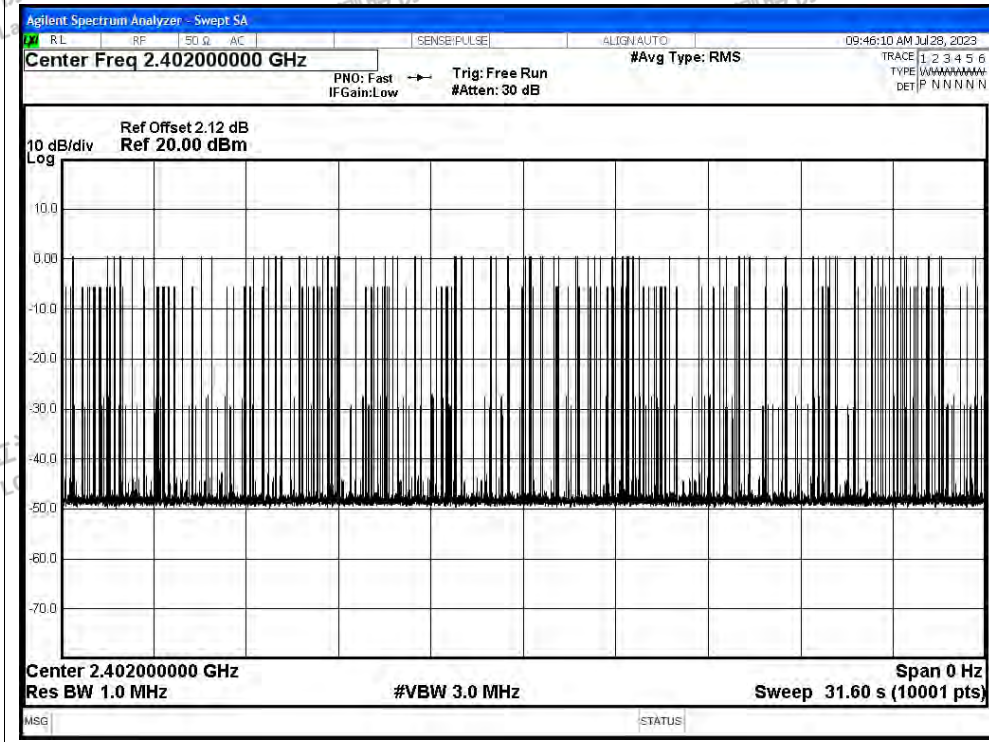




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

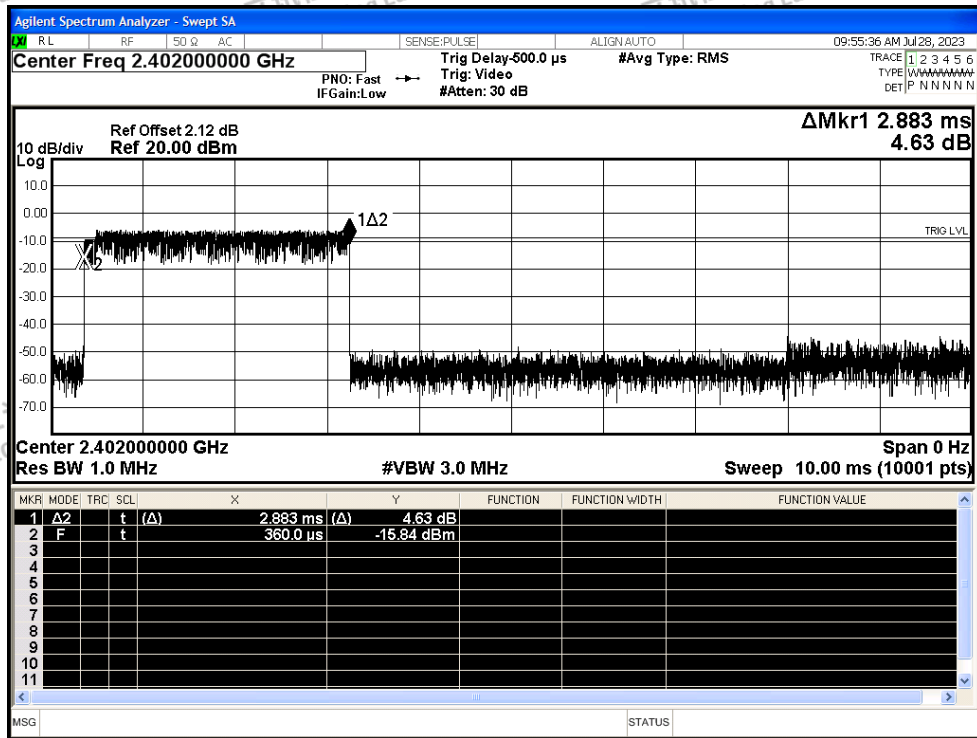


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

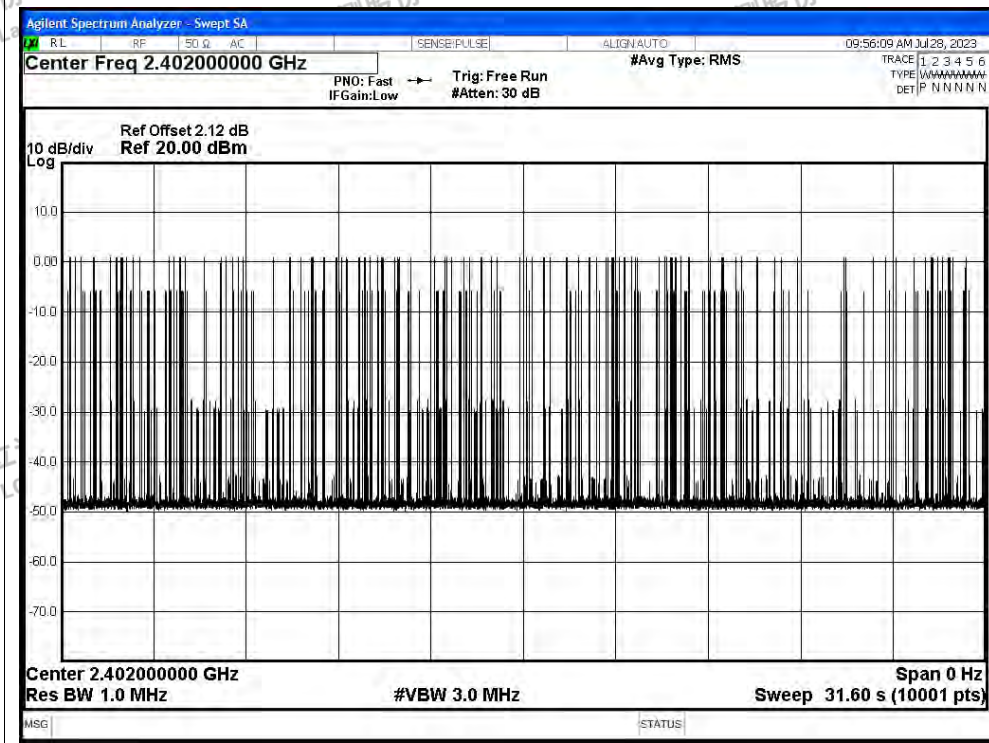




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

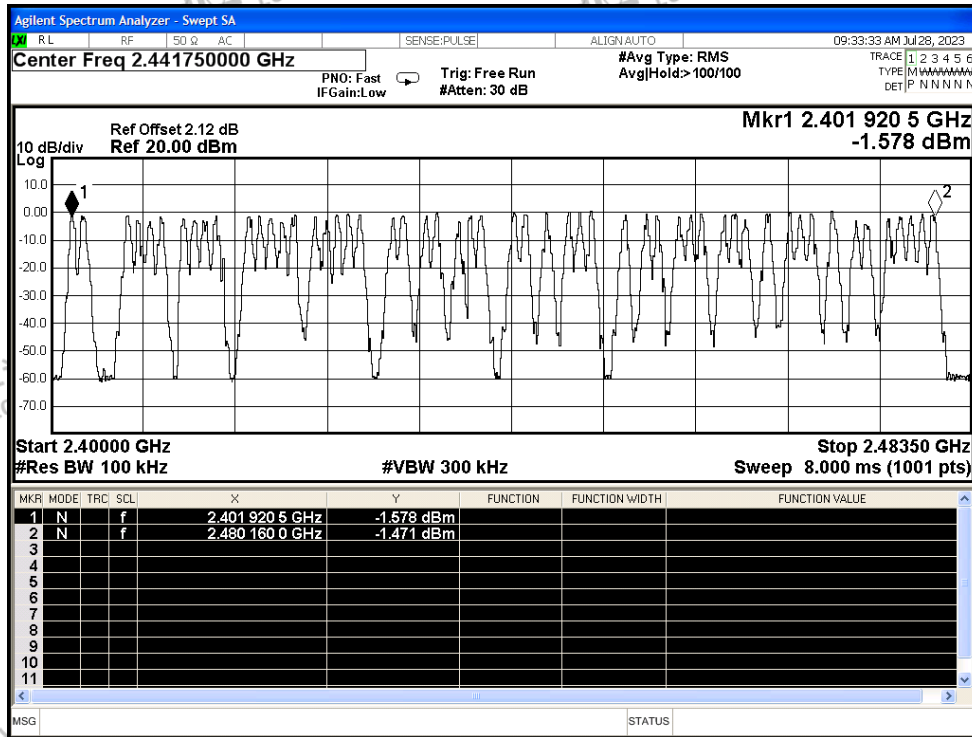


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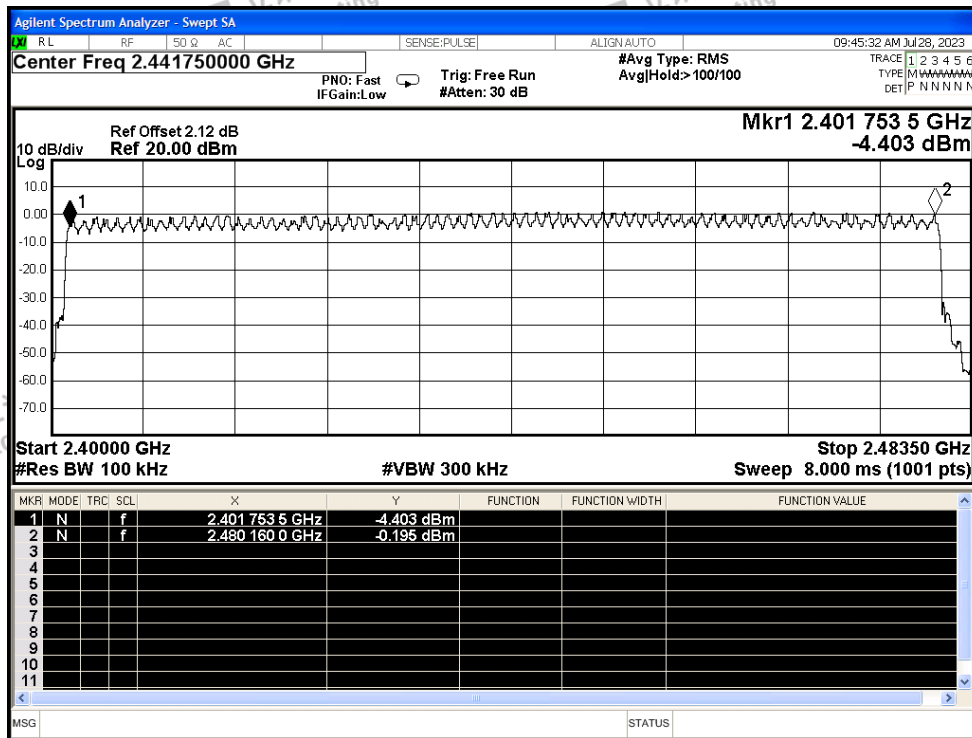


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

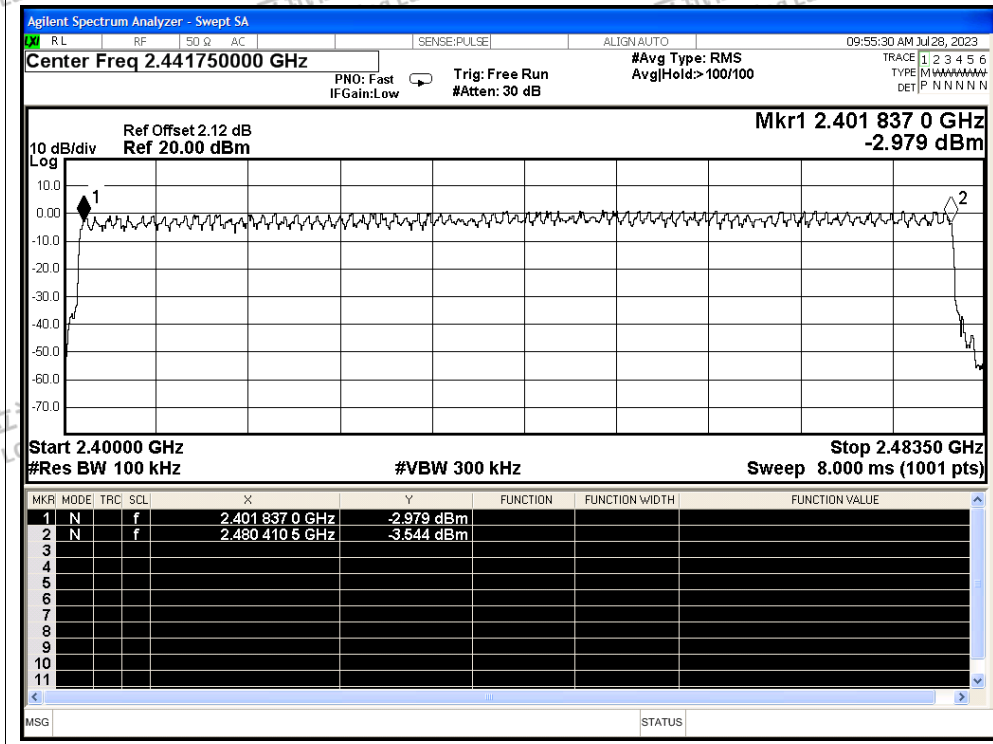


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.32	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.73	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.05	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.75	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.68	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.81	-20	Pass

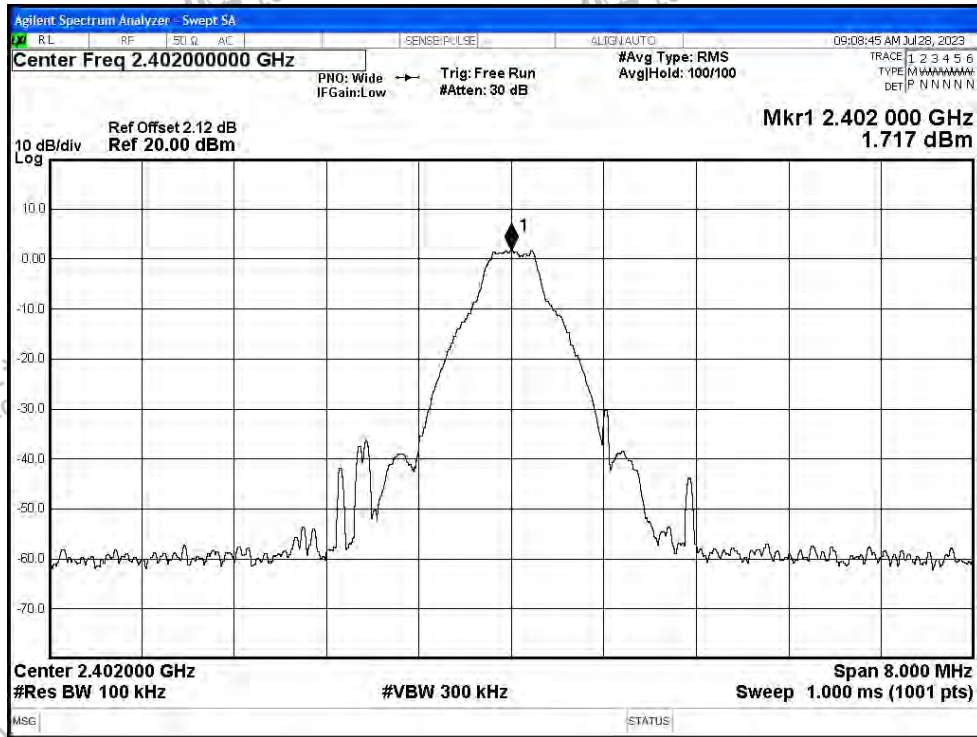


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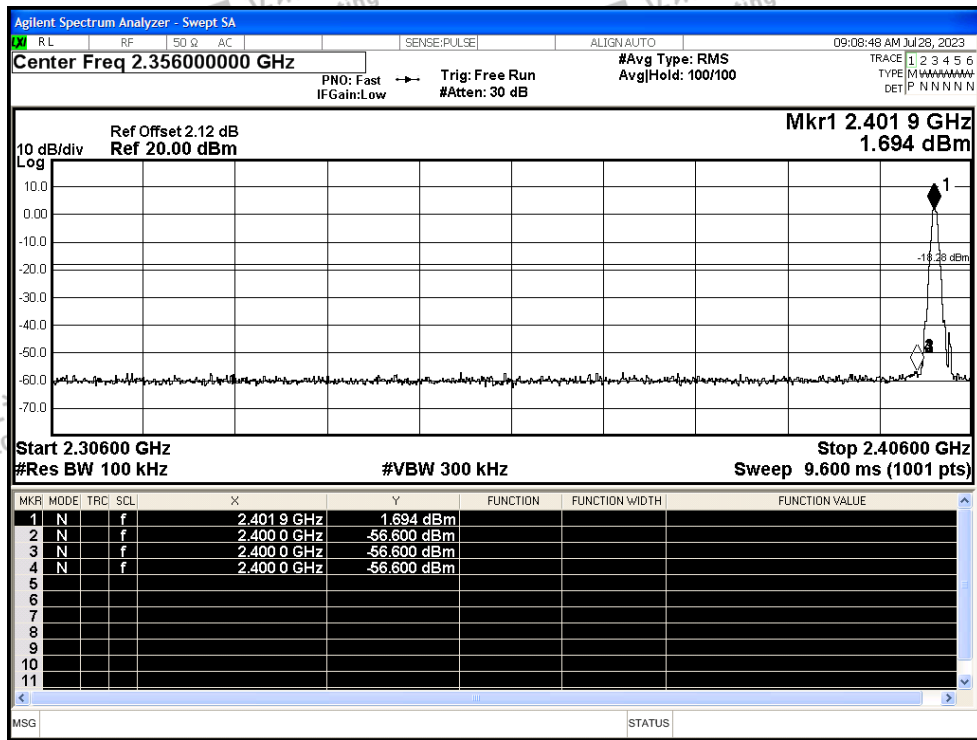


Test Graphs

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

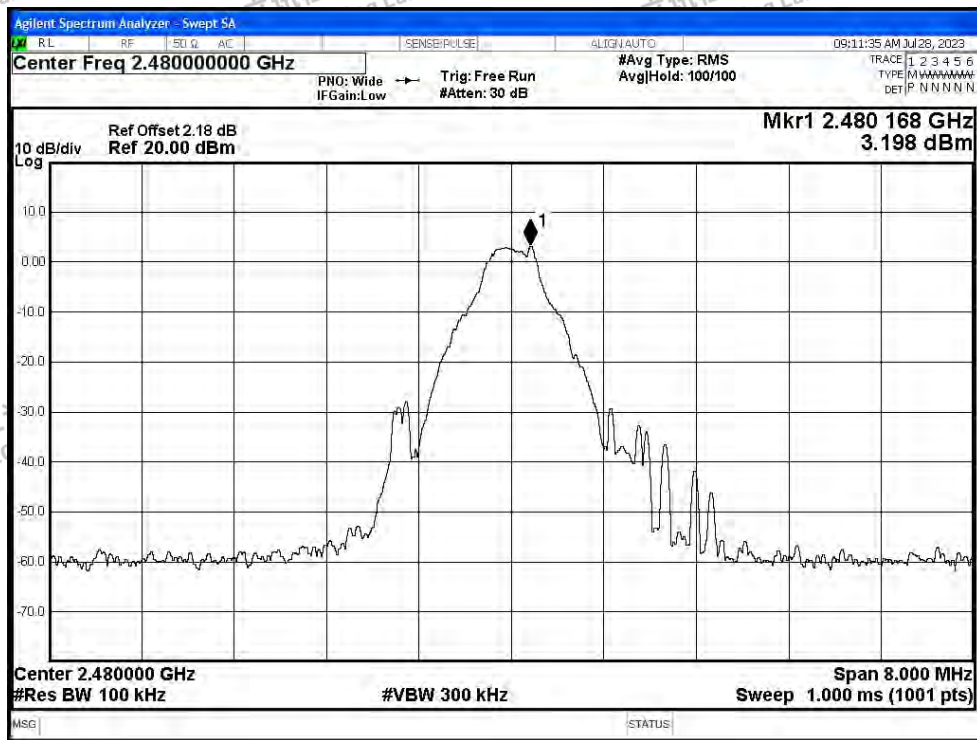


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

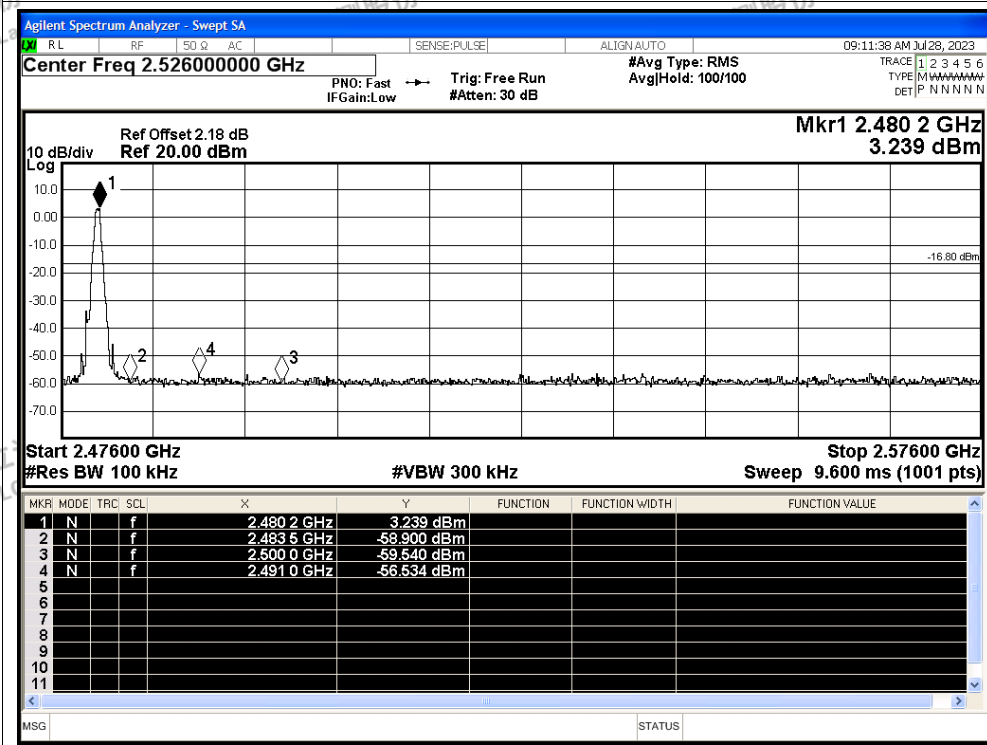




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

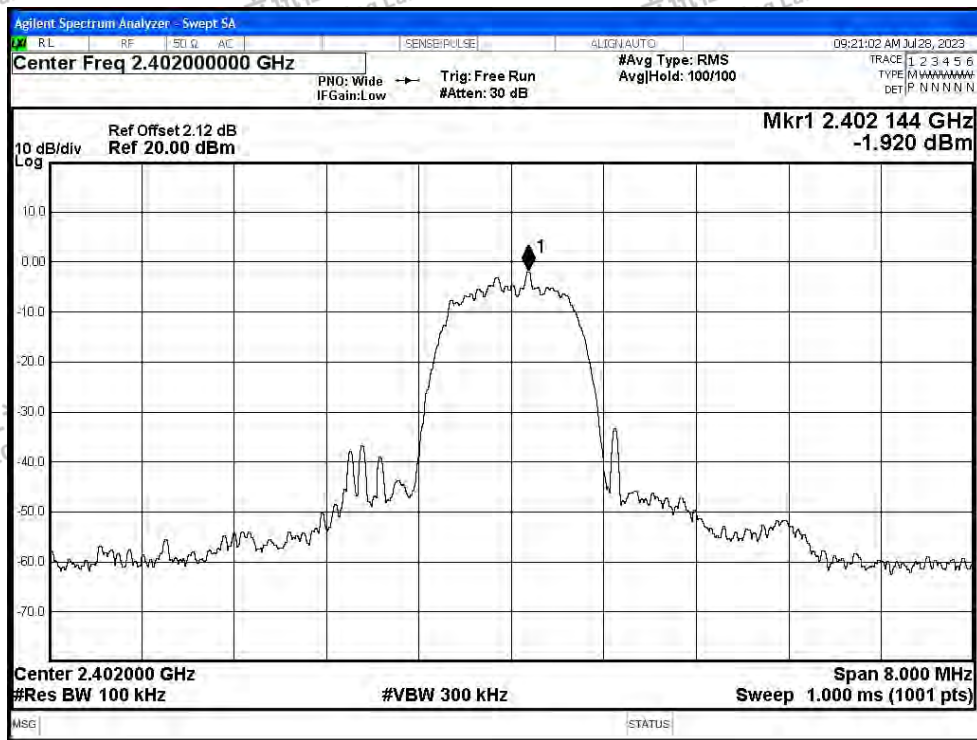


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

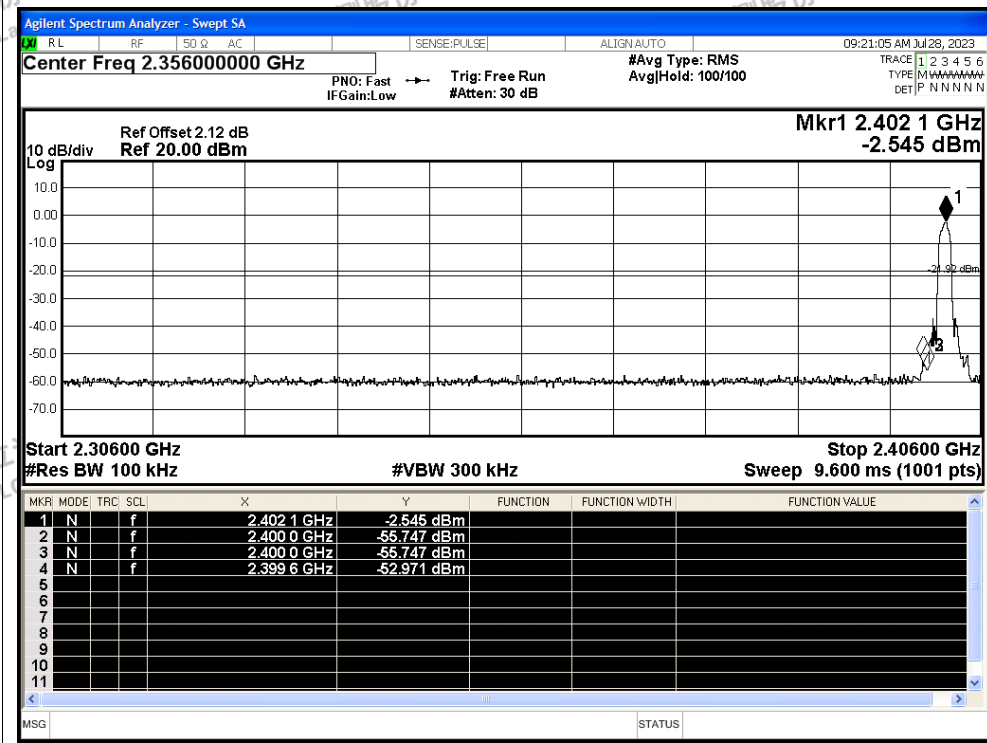




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

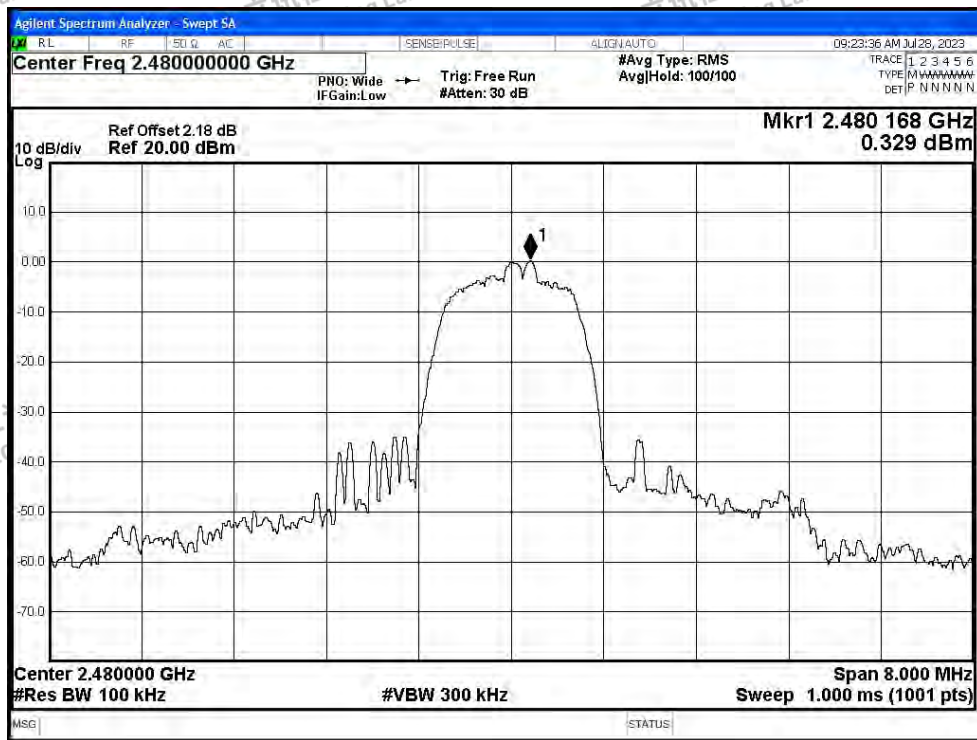


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

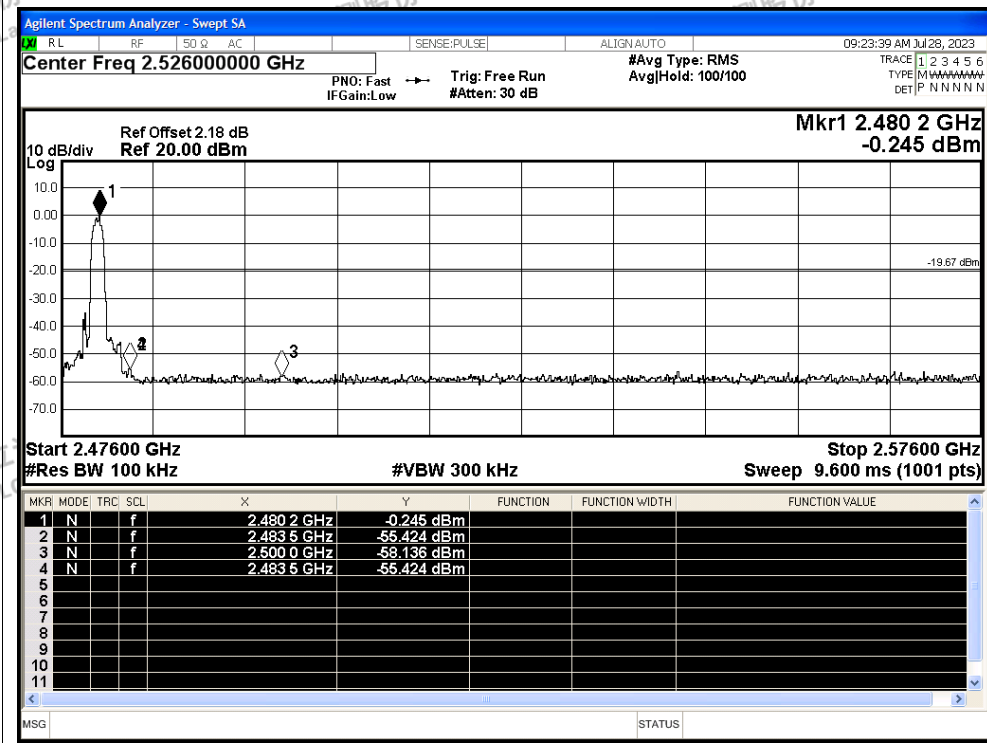




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

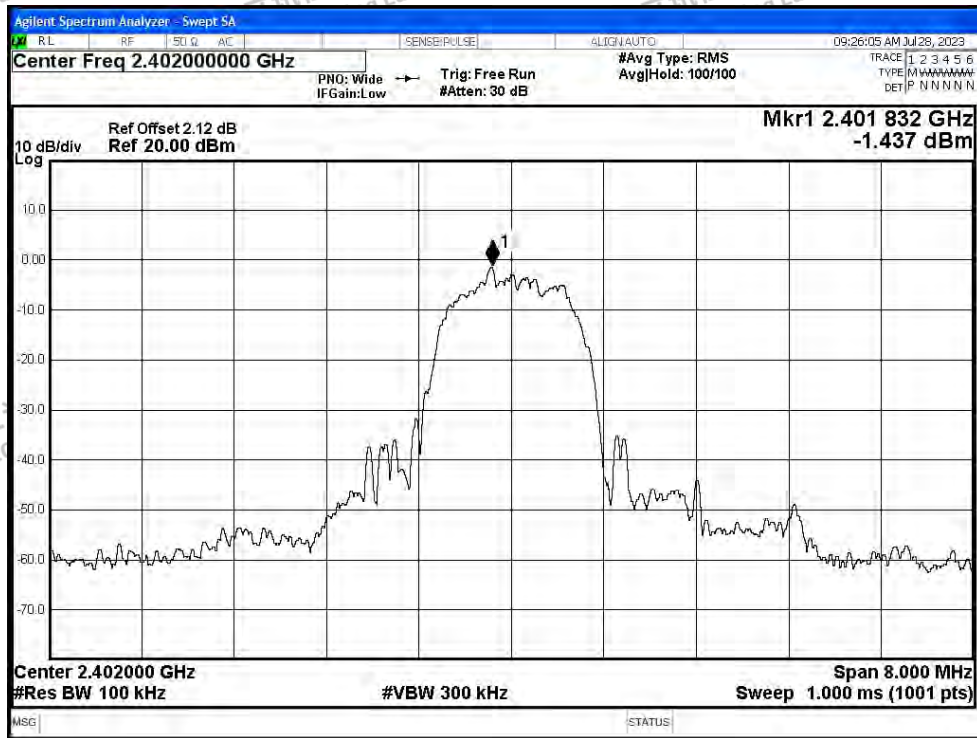


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

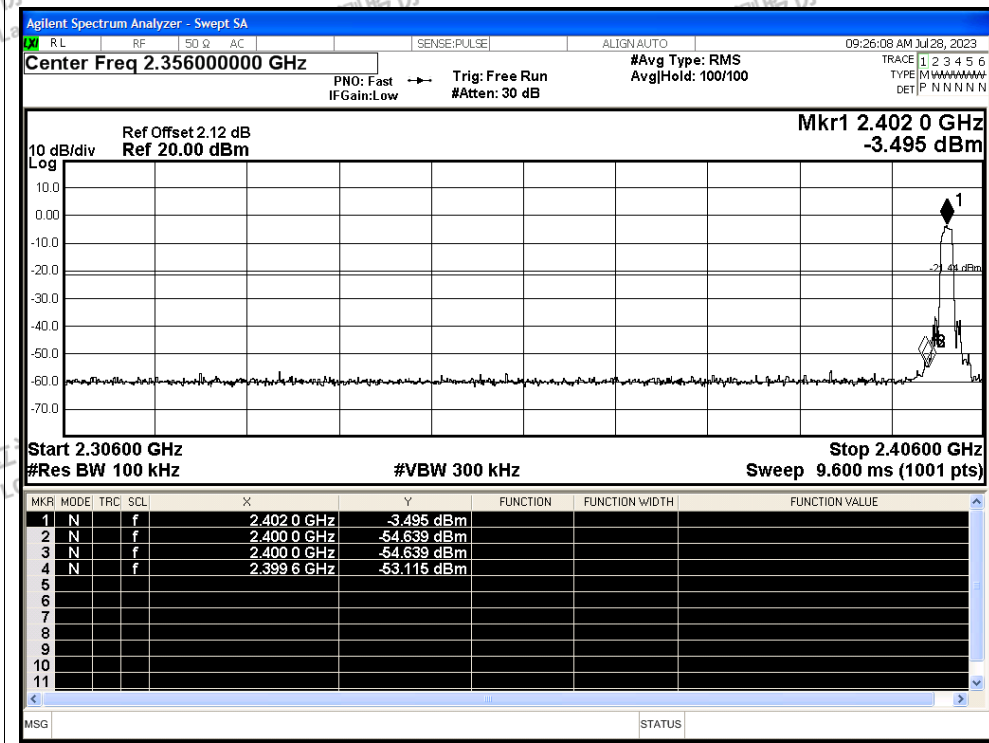




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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

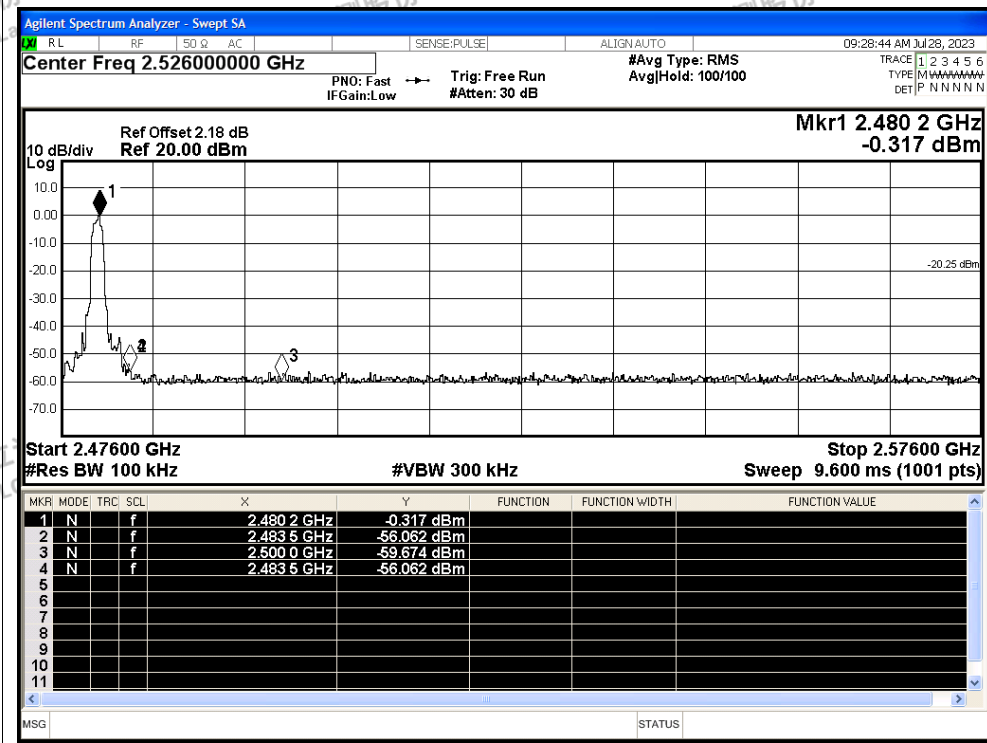




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-54.46	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.62	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.76	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.38	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.62	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.67	-20	Pass

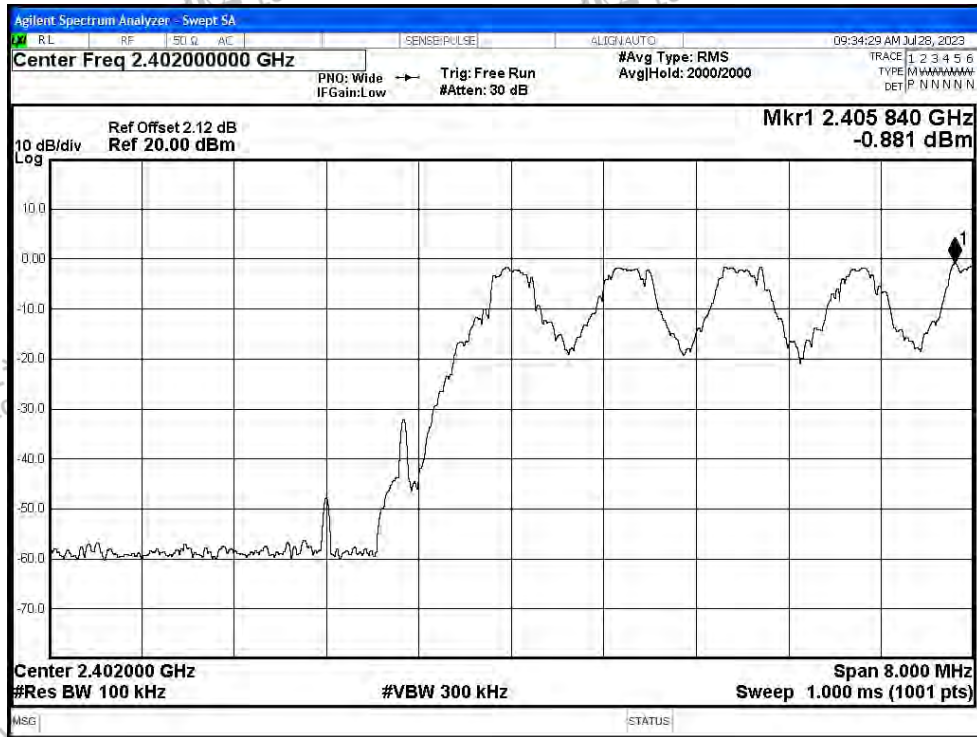


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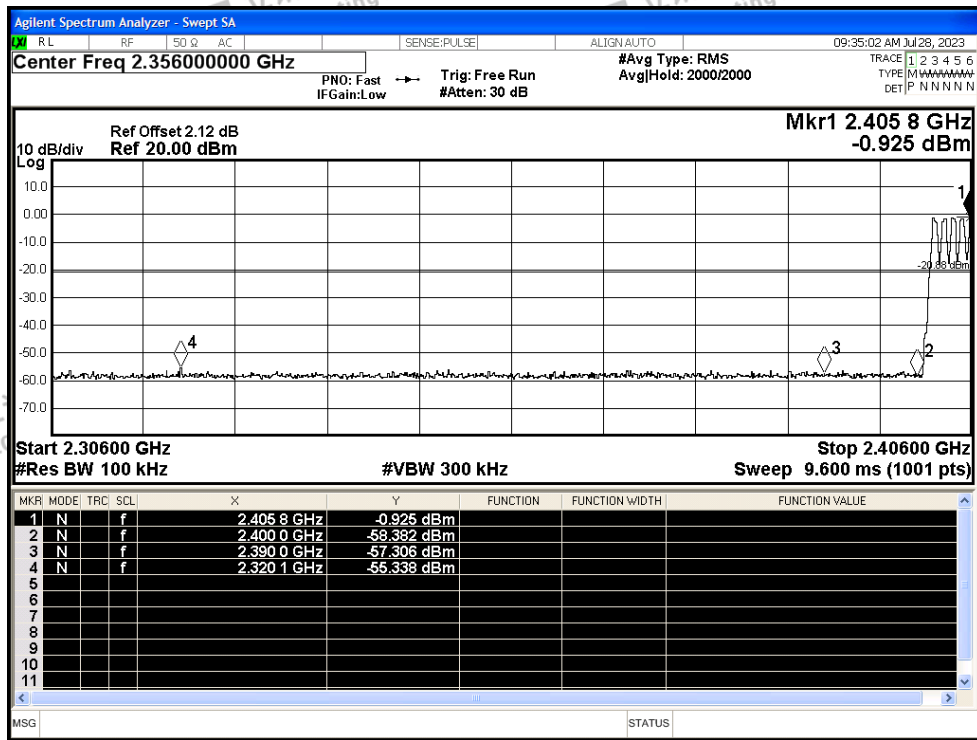


Test Graphs

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

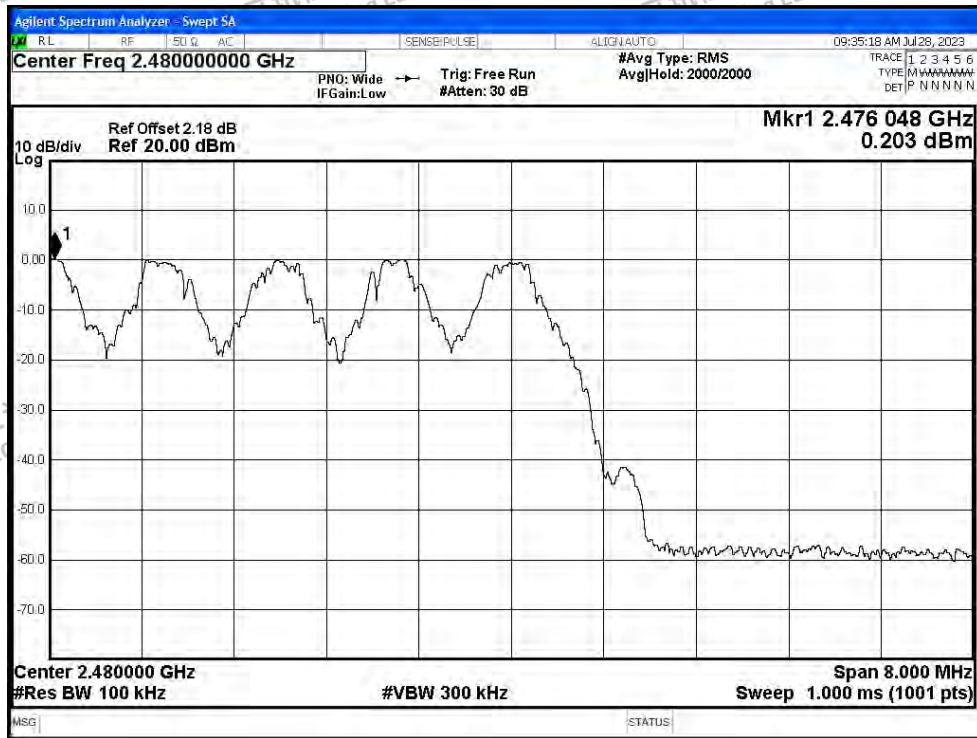


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

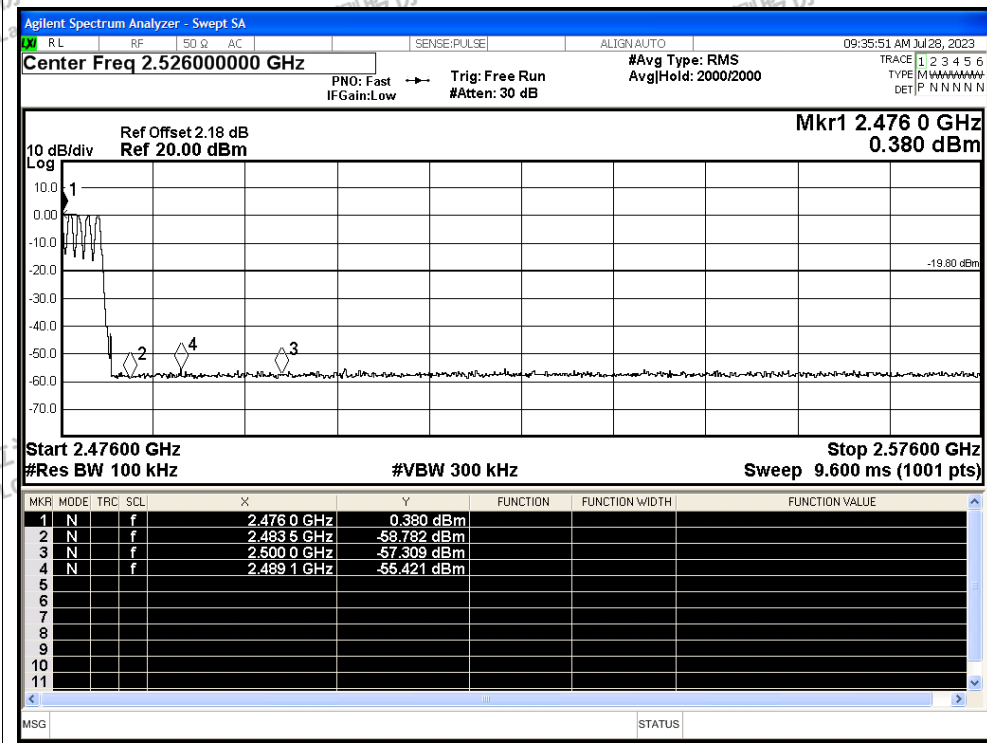




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

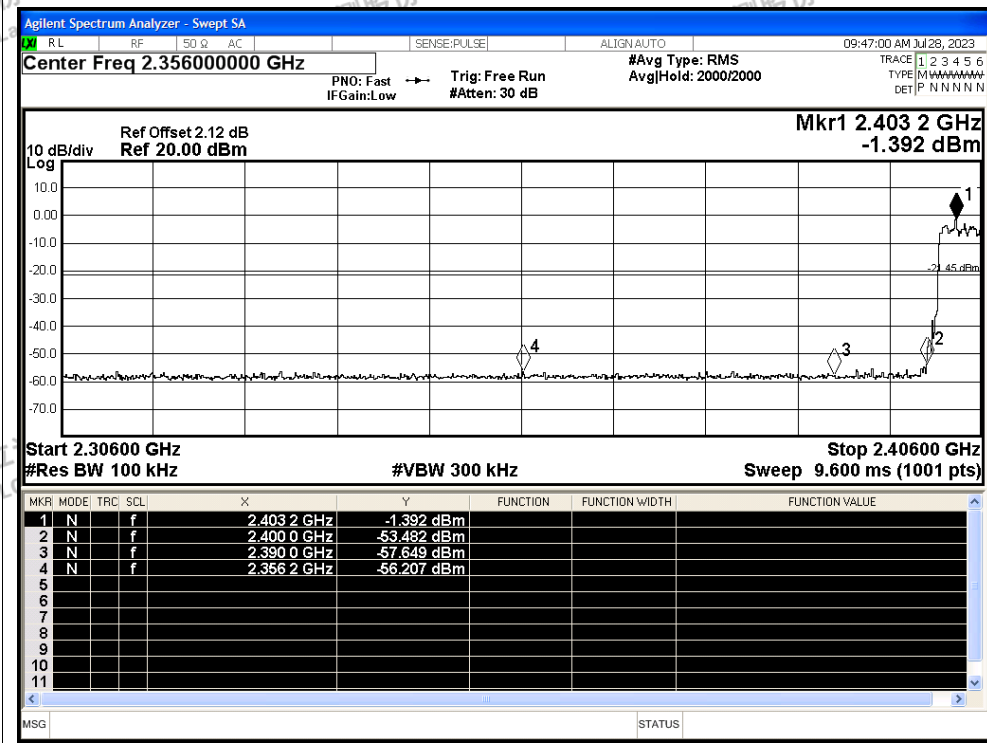




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

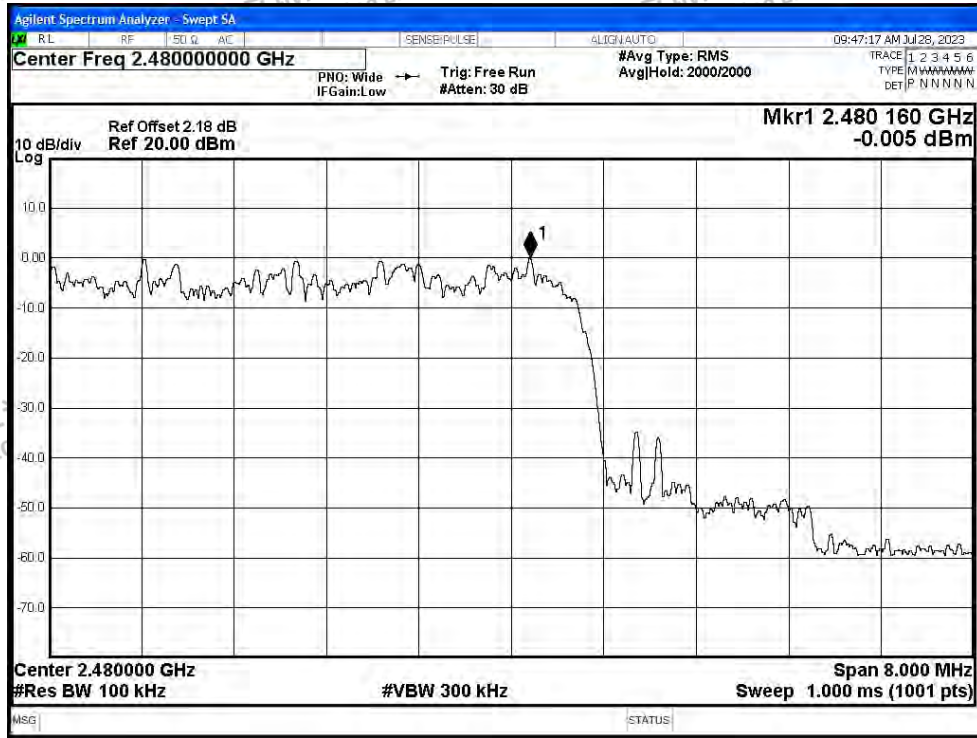


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

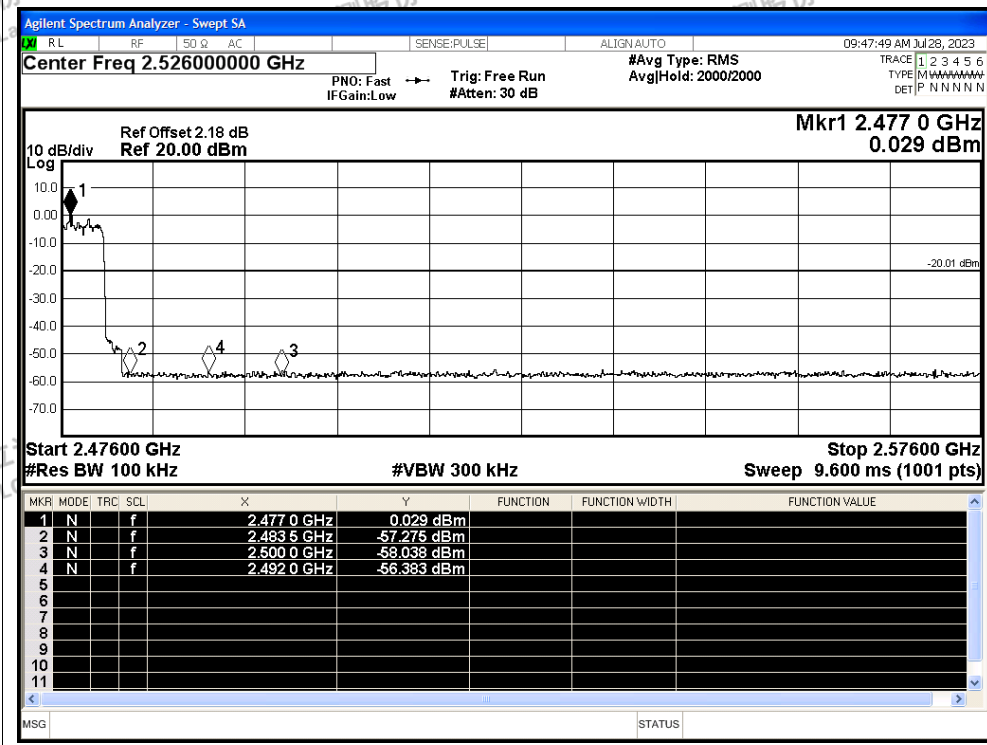




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

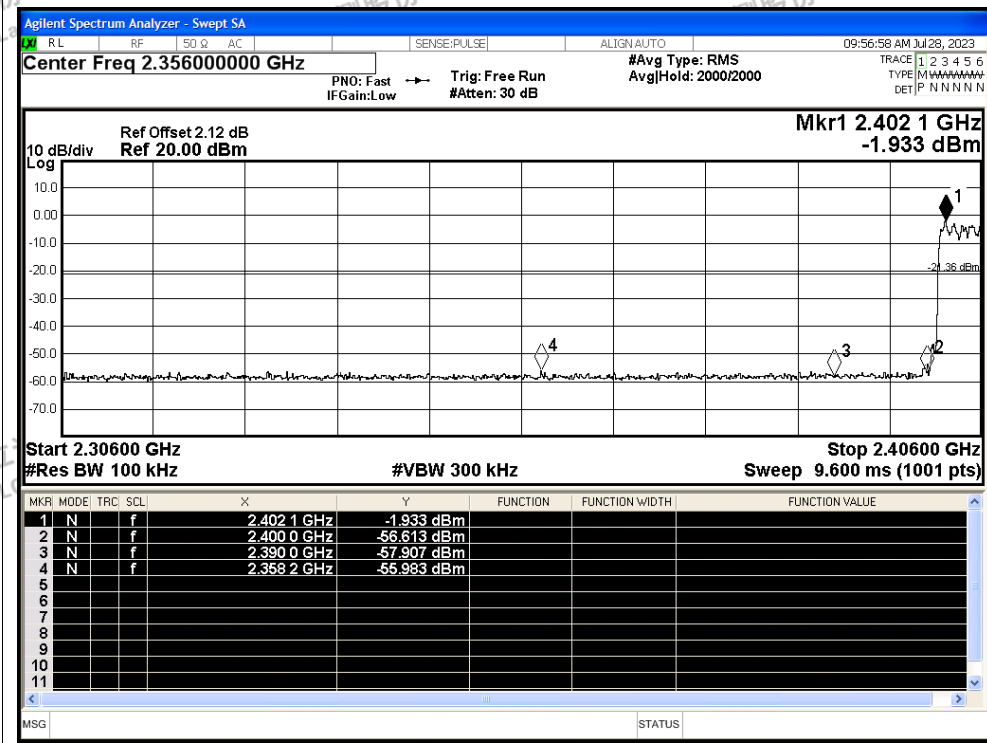




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

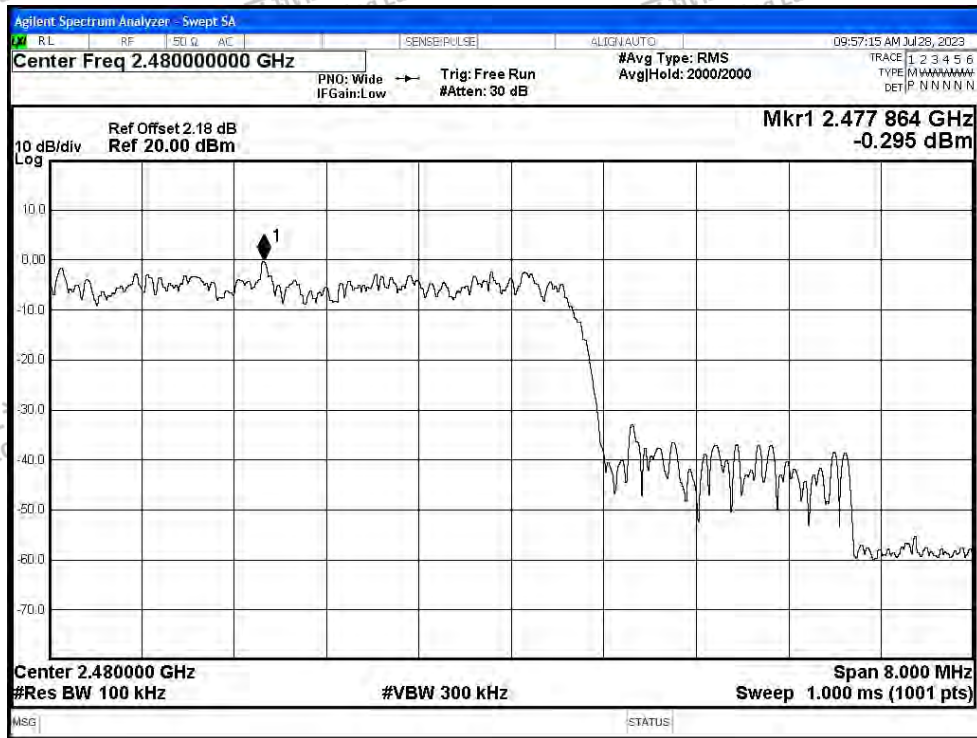


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

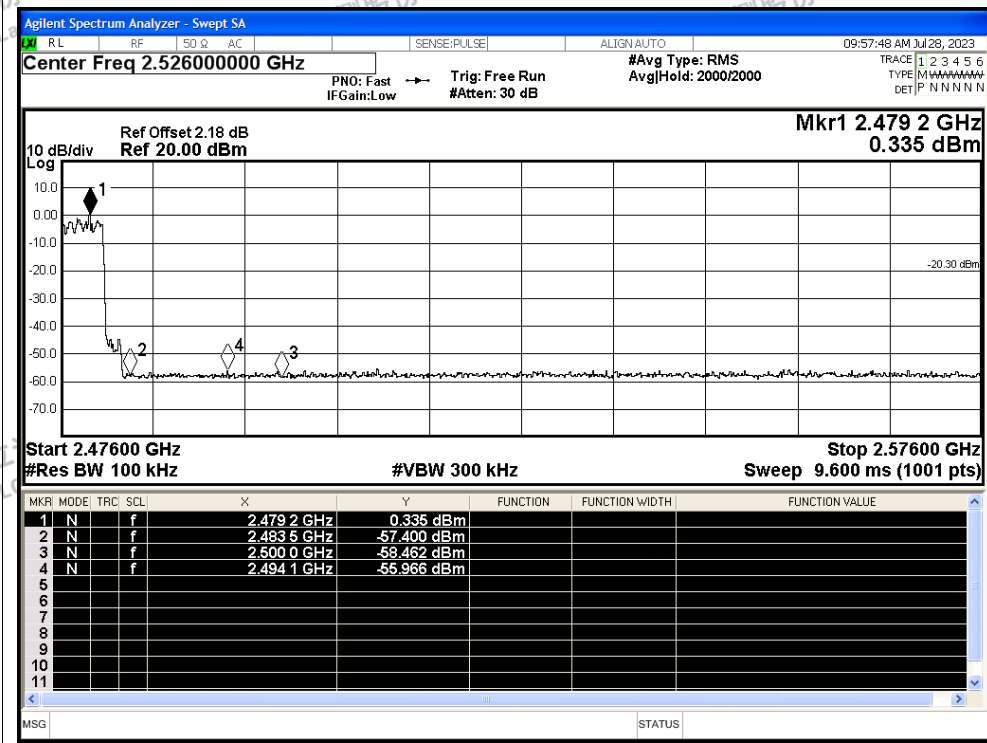




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-56.99	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.93	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.65	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.36	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.27	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.35	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.6	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.66	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.24	-20	Pass

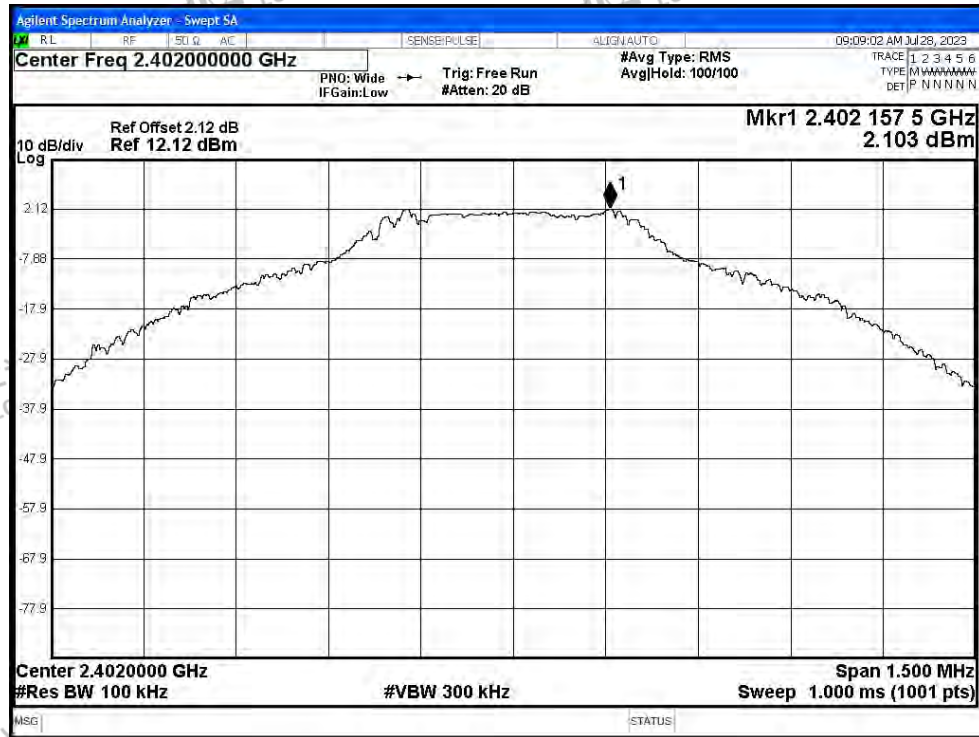


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 Scan code to check authenticity

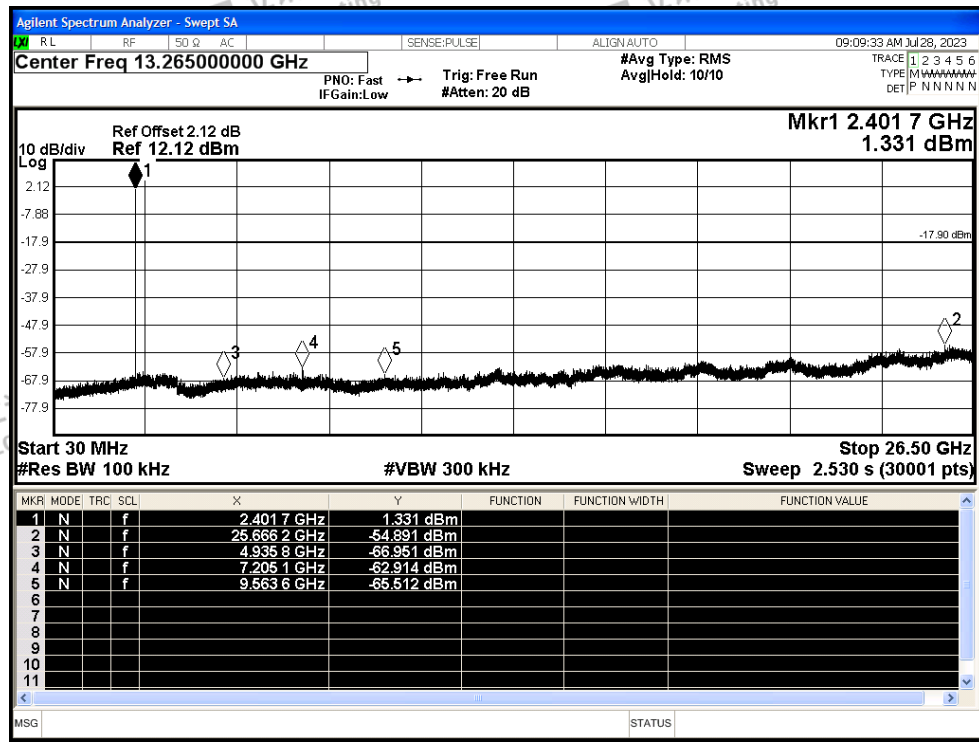


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

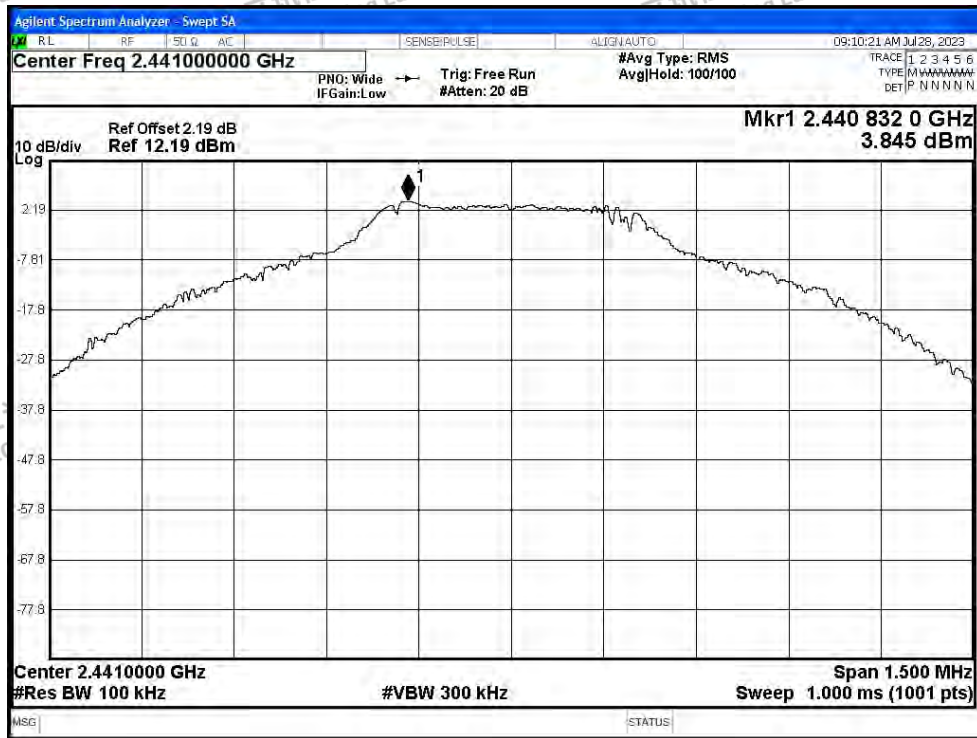


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

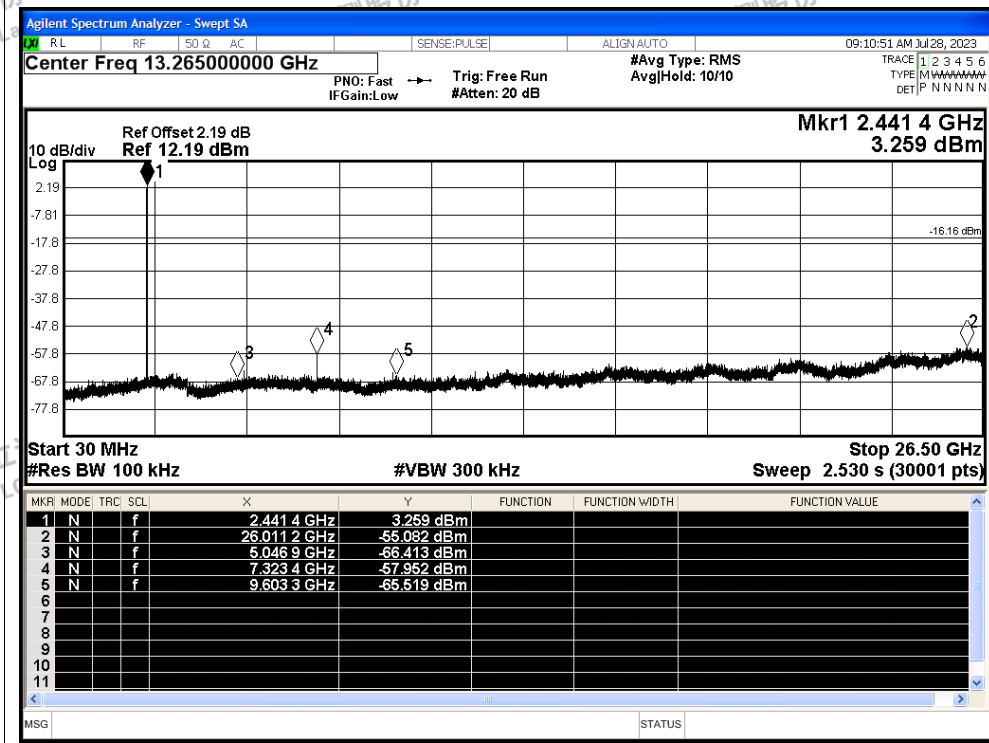




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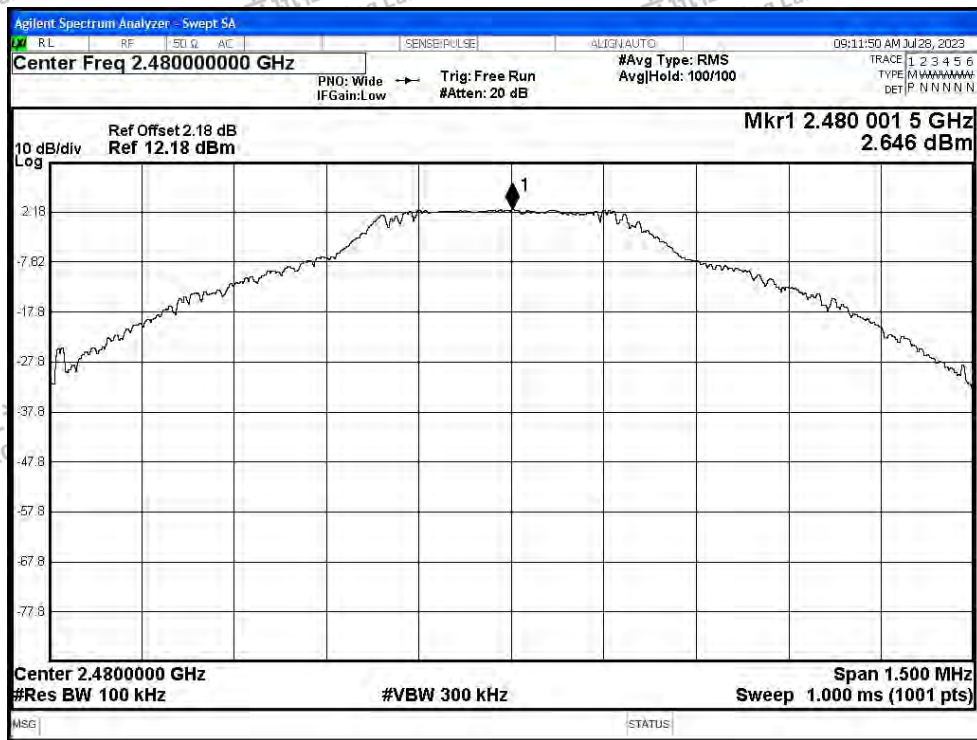


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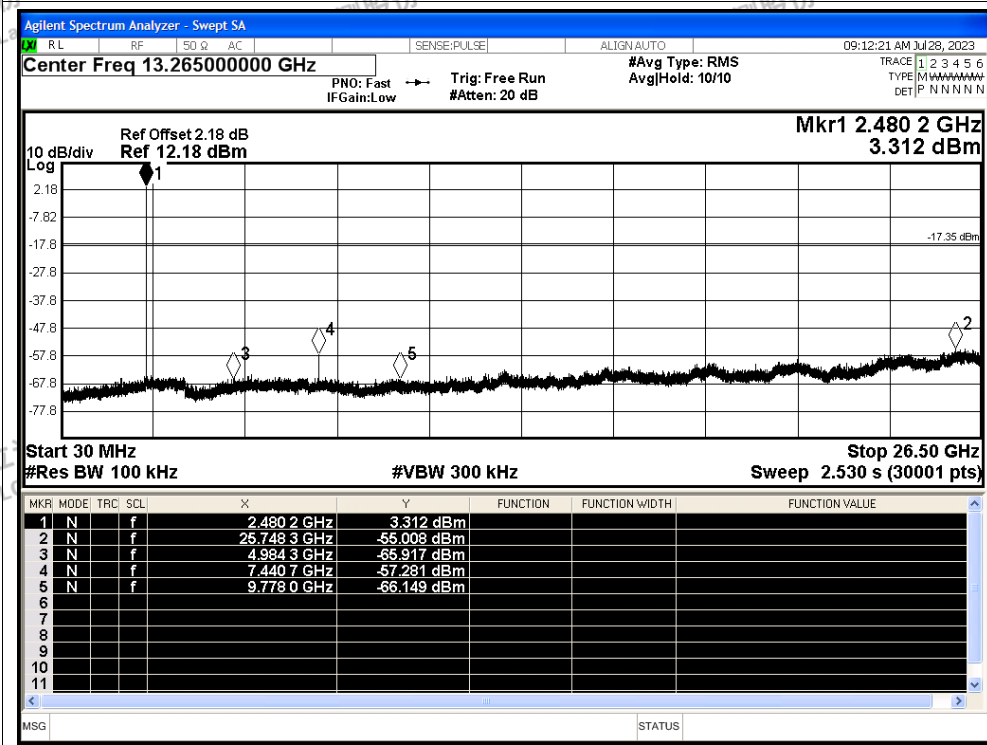




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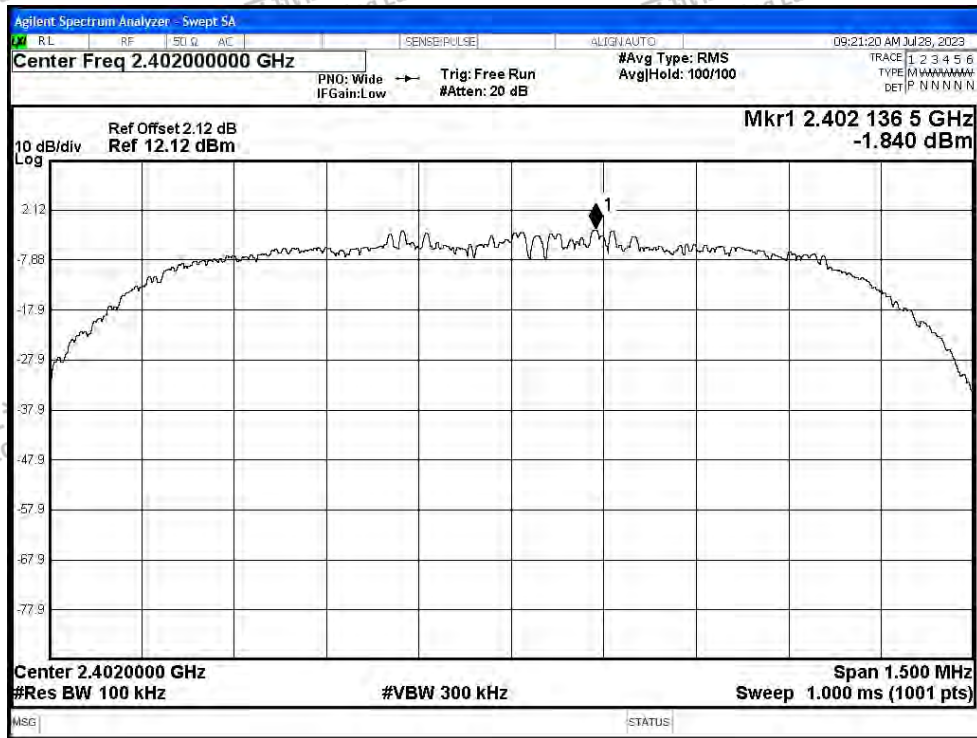


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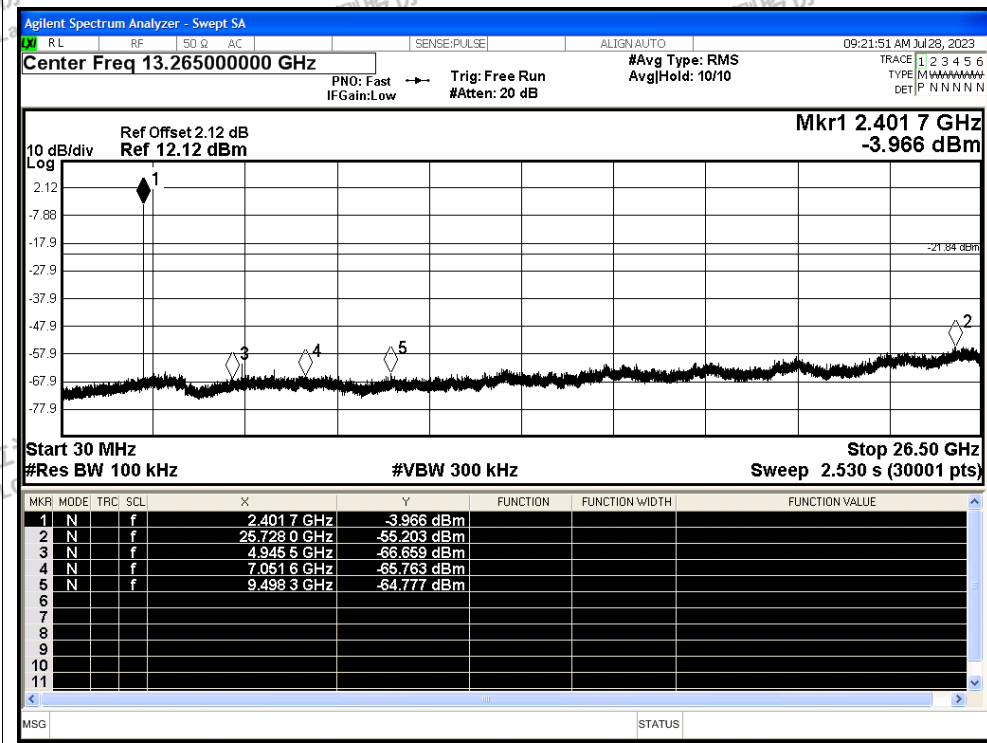




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



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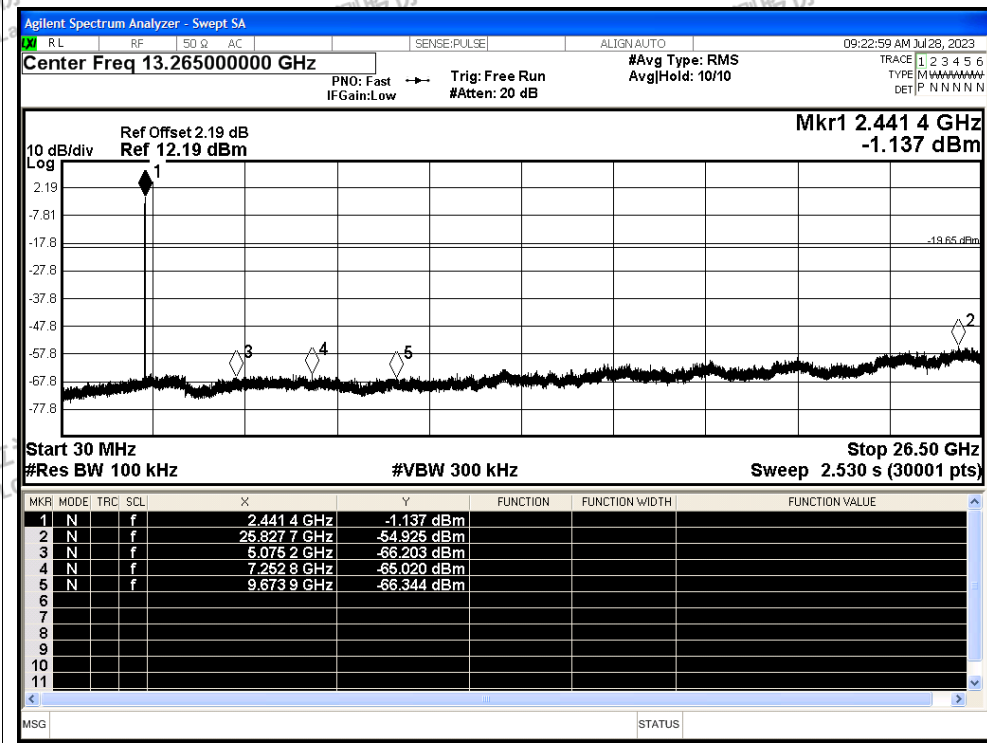




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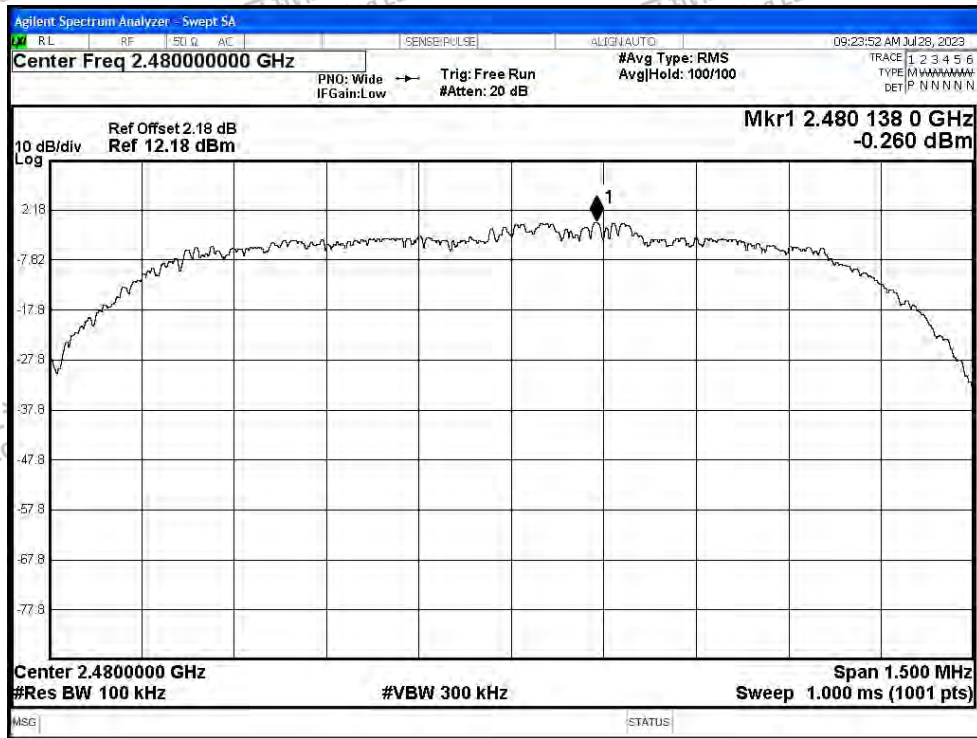


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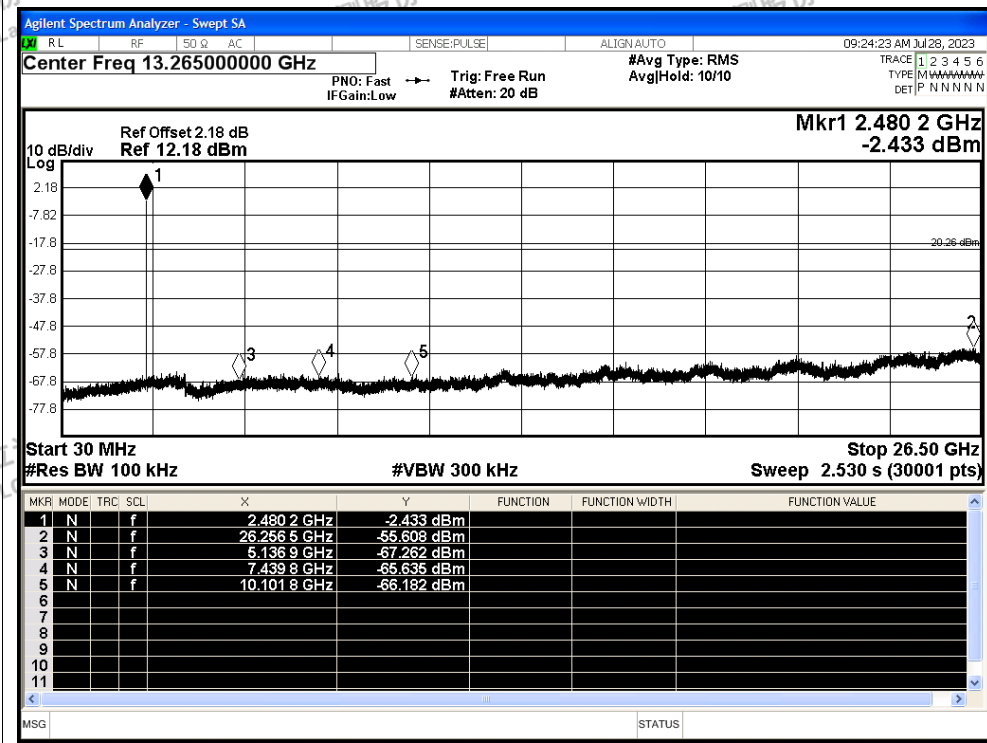




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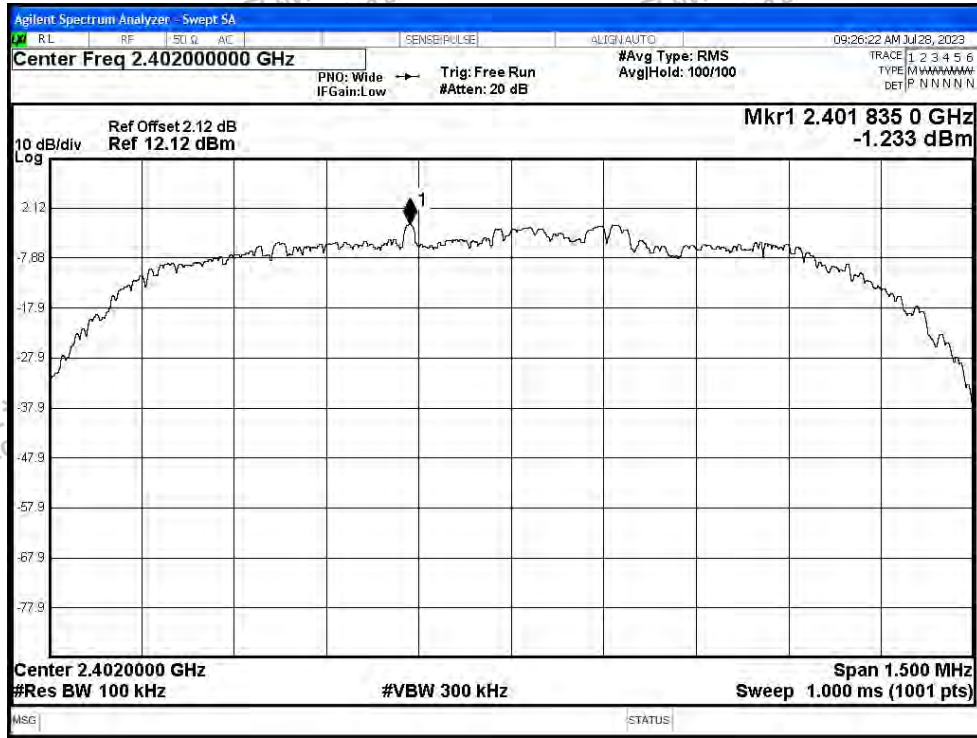


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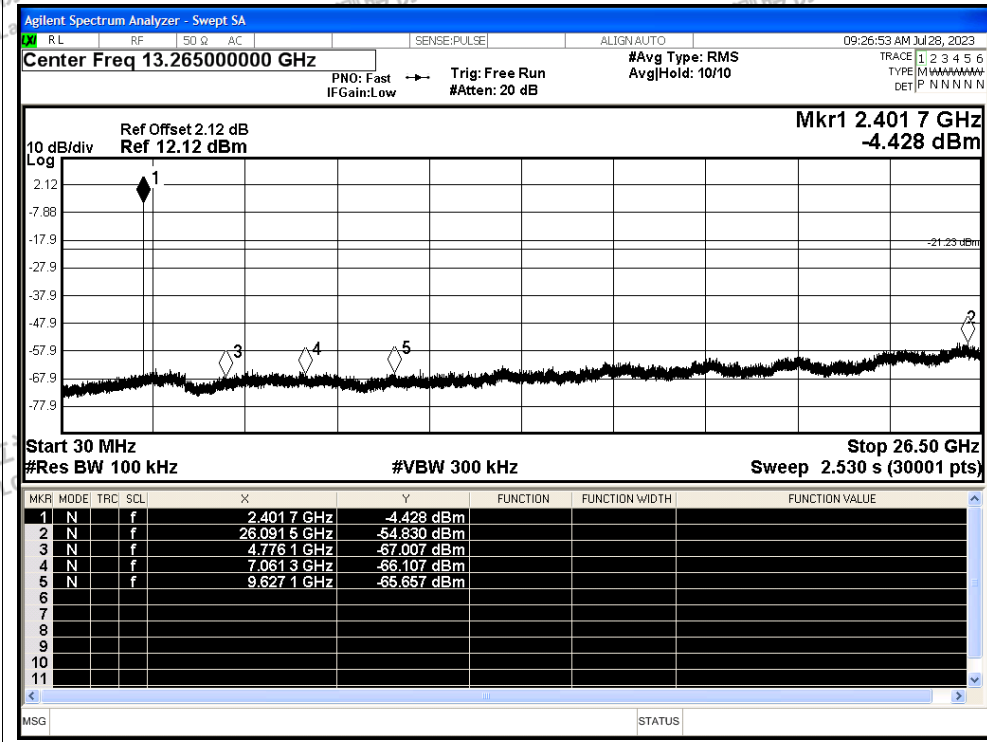




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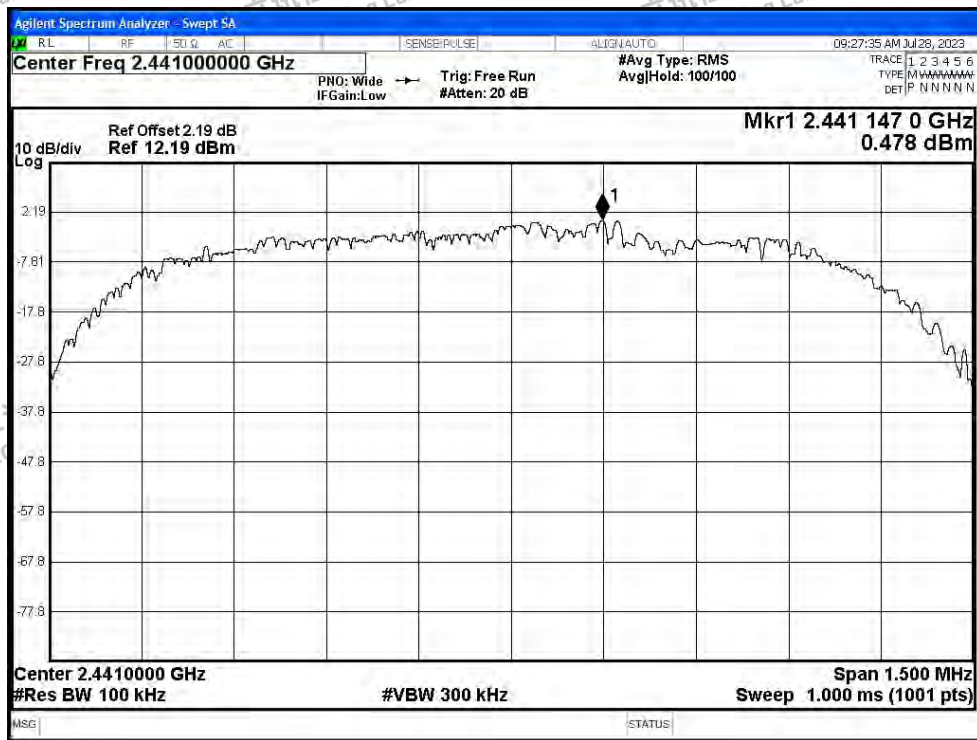


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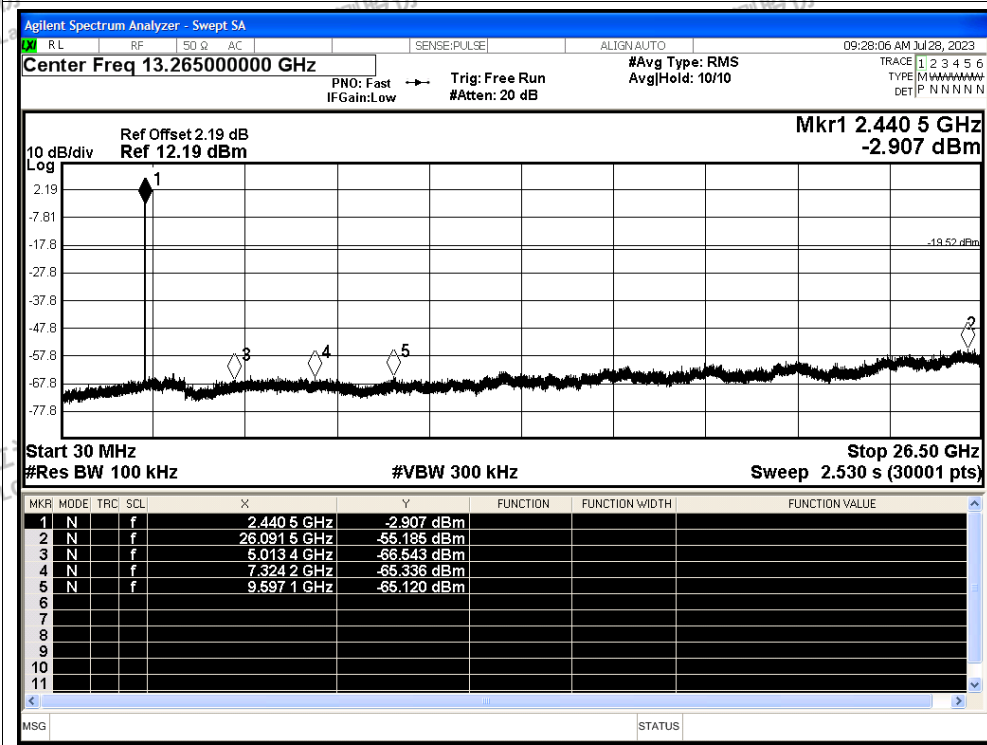




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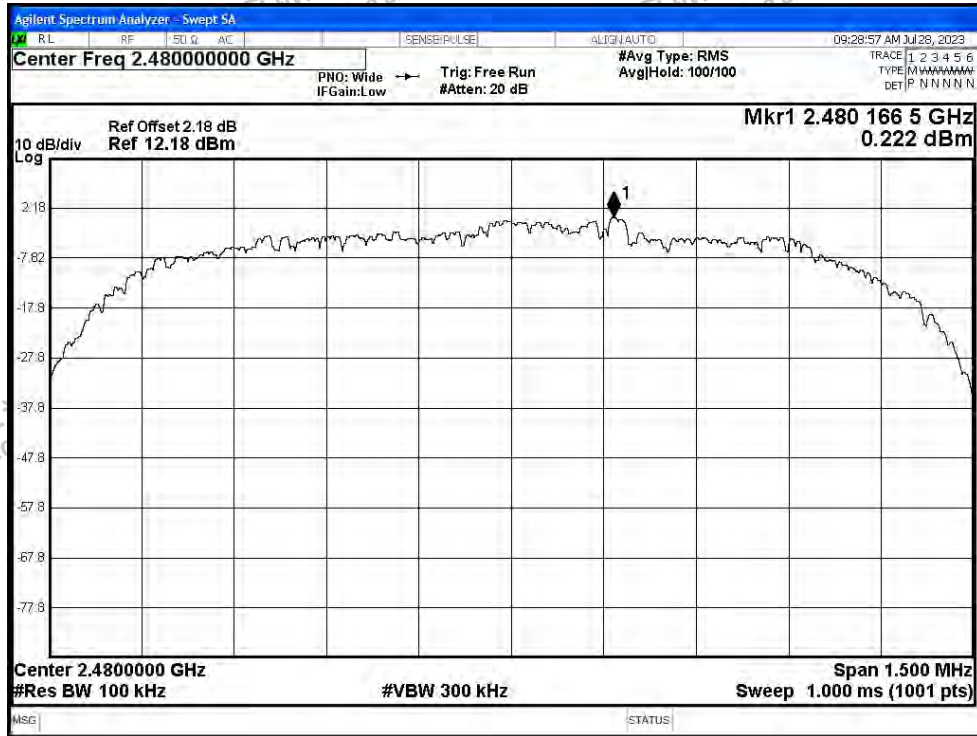


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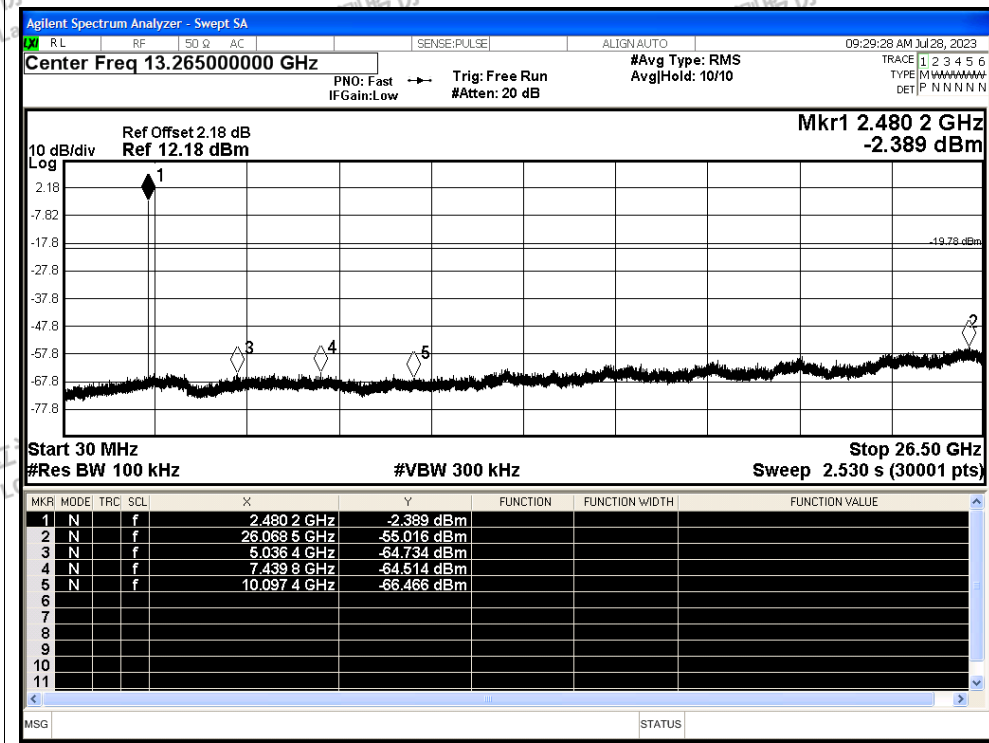




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.8	2	45.46	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.82	2	39.44	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2334.384	-47.23	2	50.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.488	-57.25	2	40.01	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.87	2	48.39	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.34	2	39.92	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.34	2	46.92	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.07	2	43.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2492.08	-46.97	2	50.29	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-54.07	2	43.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.51	2	46.75	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.03	2	40.23	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.36	2	46.9	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.8	2	39.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.304	-47.46	2	49.8	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.896	-57.39	2	39.87	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.81	2	46.45	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.54	2	39.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-44.94	2	52.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.8	2	43.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.728	-44.23	2	53.03	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-53.8	2	43.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.15	2	49.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.19	2	40.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.92	2	46.34	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.89	2	39.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2353.104	-47.3	2	49.96	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.488	-57.37	2	39.89	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.36	2	46.9	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.52	2	39.74	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-44.45	2	52.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.13	2	44.13	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-44.45	2	52.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.13	2	44.13	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.58	2	47.68	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass

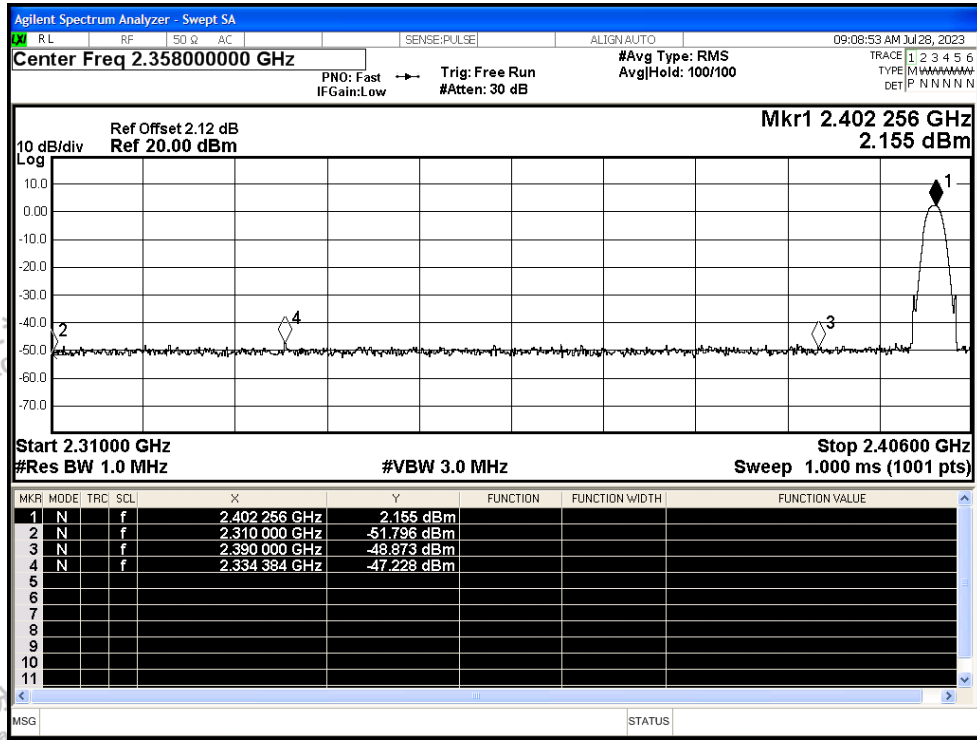


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 Scan code to check authenticity

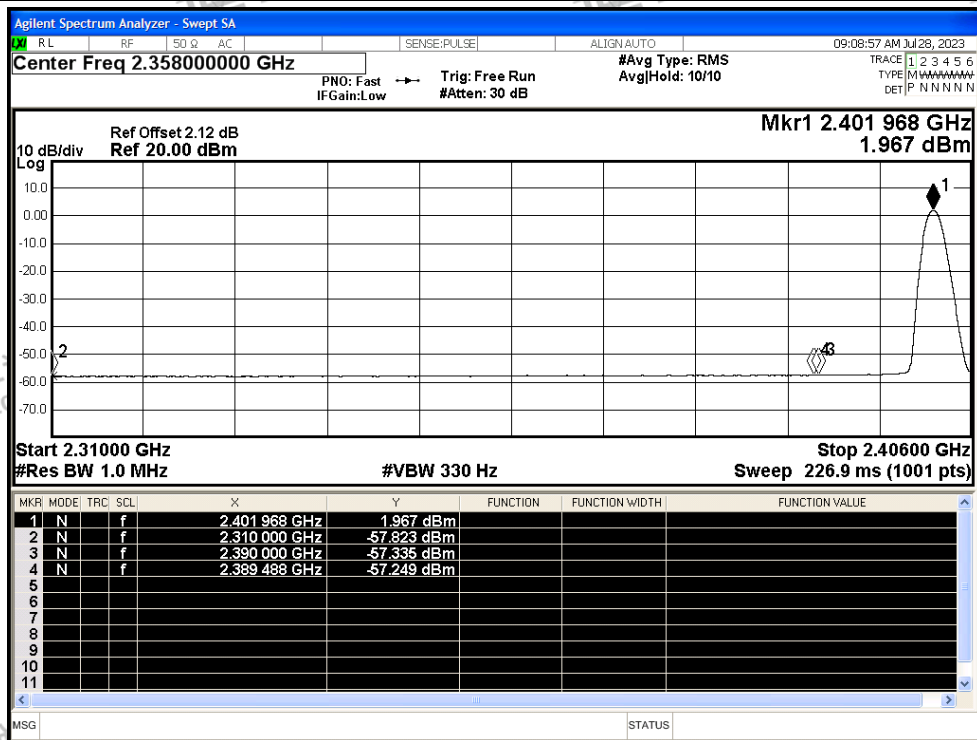


Test Graphs

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

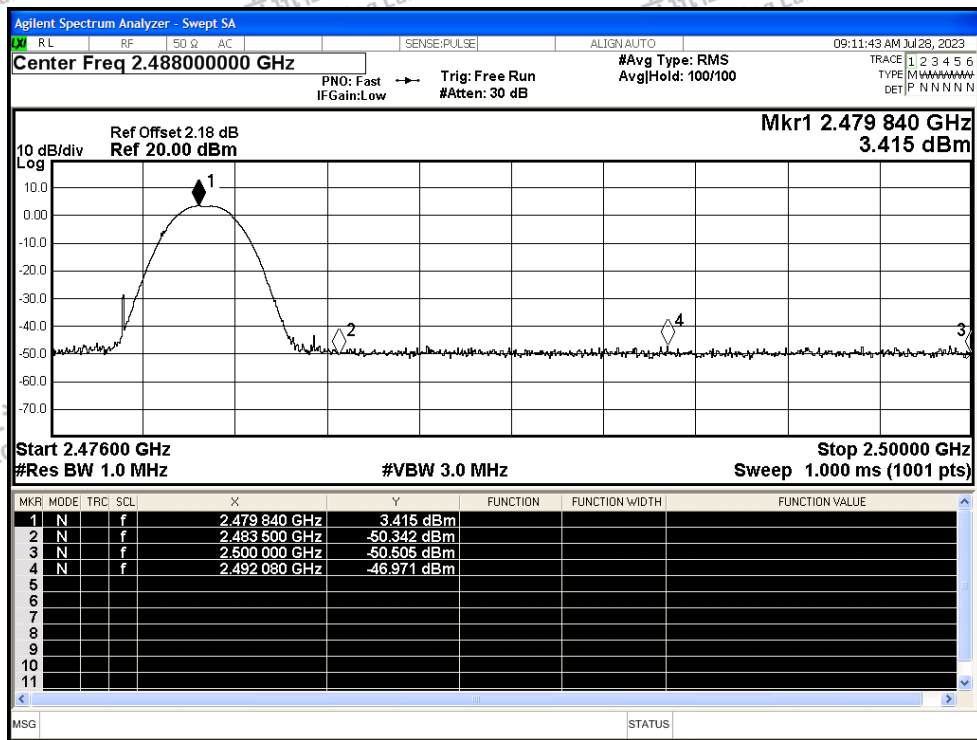


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

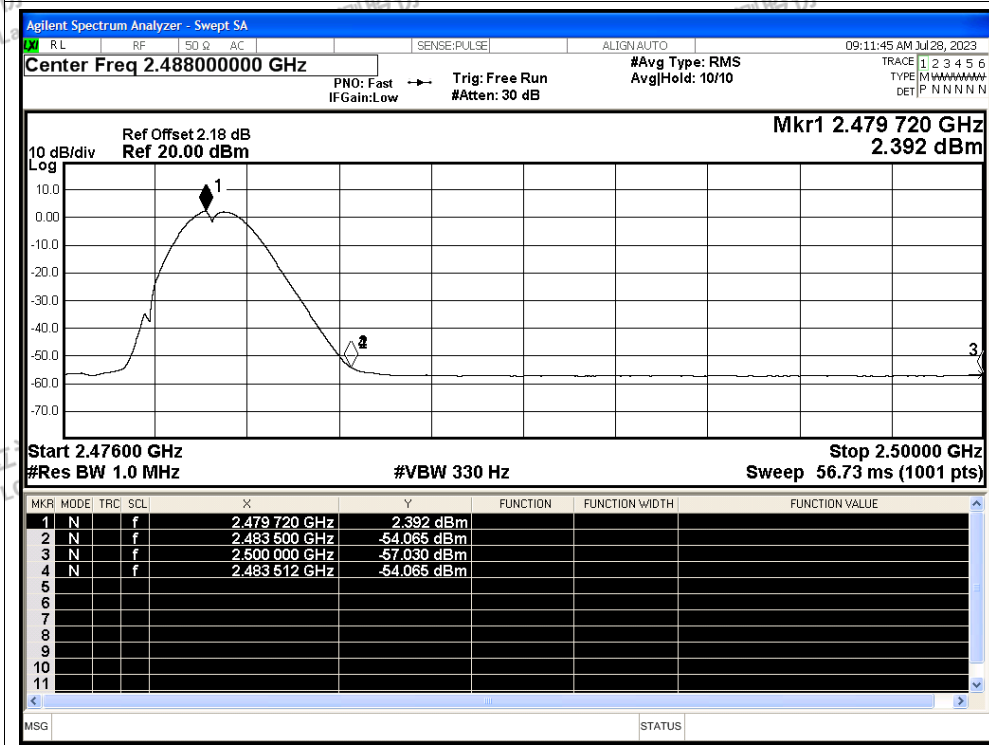




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

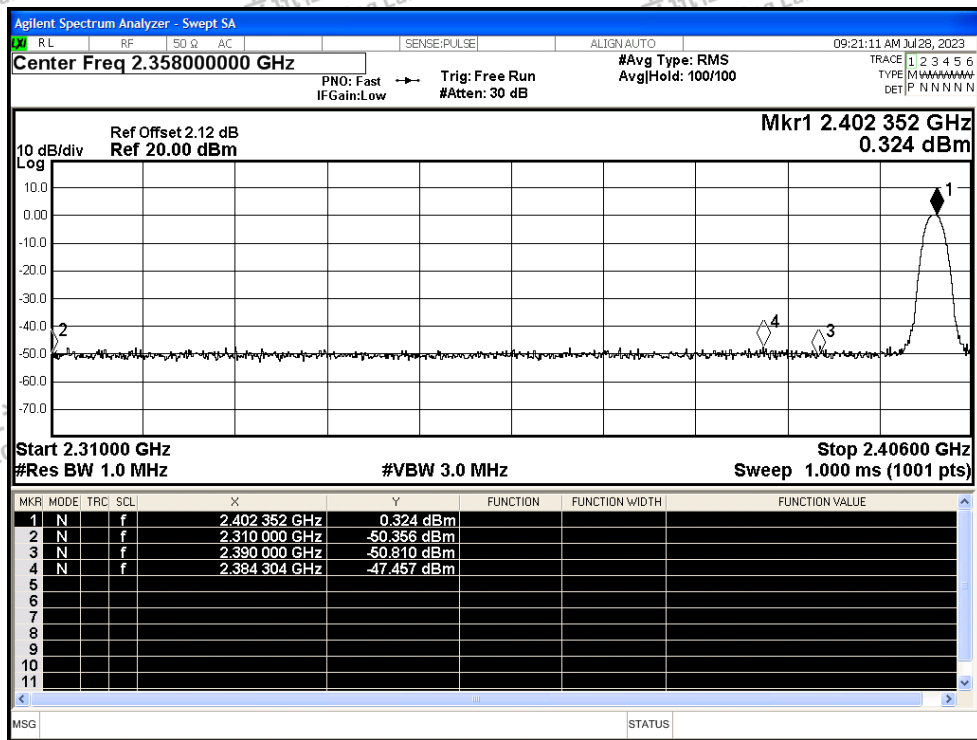


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

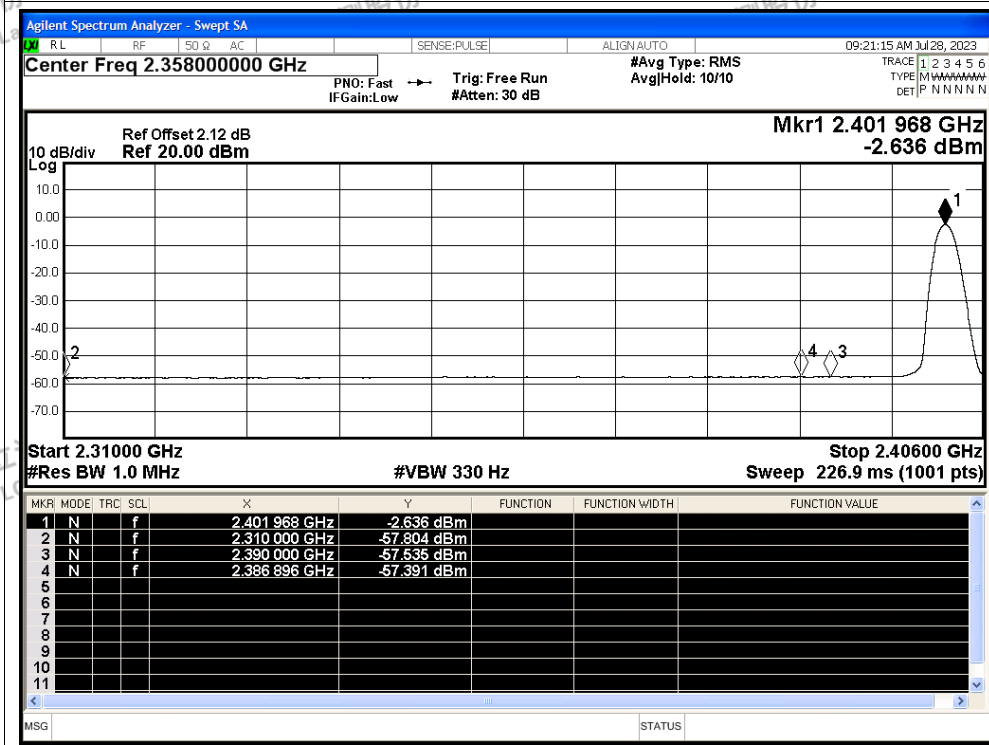




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

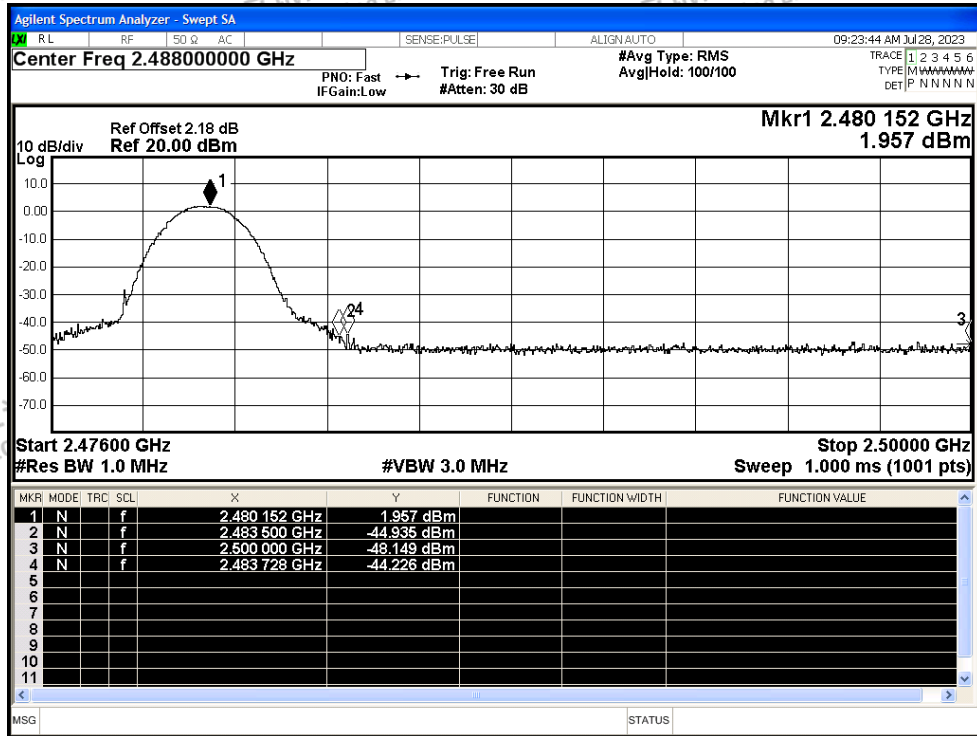


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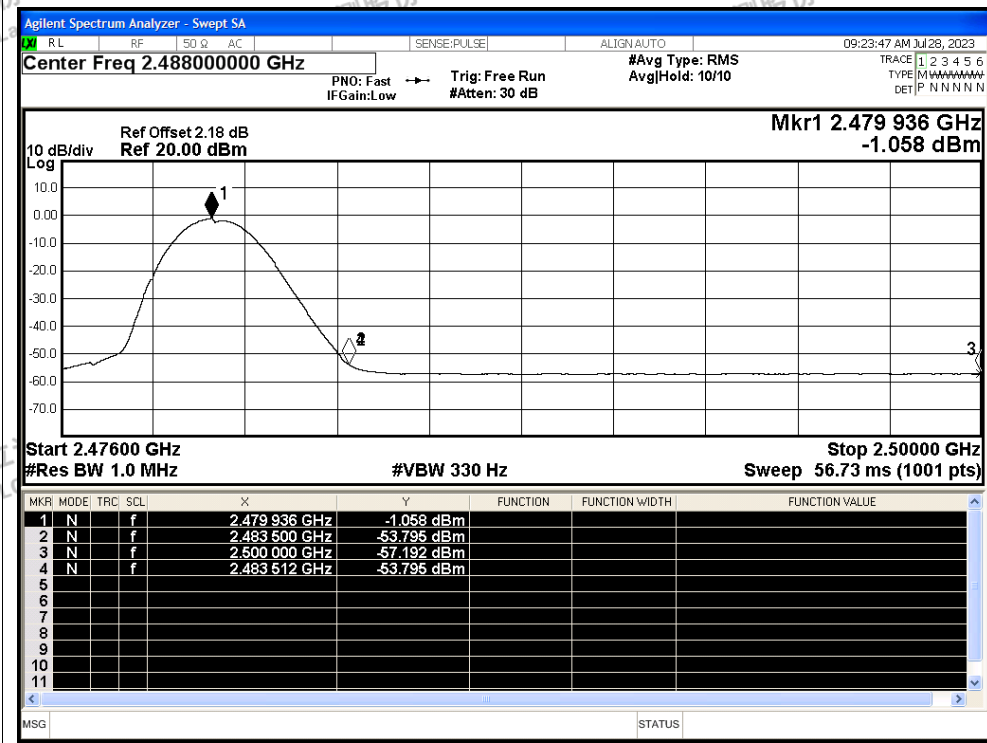




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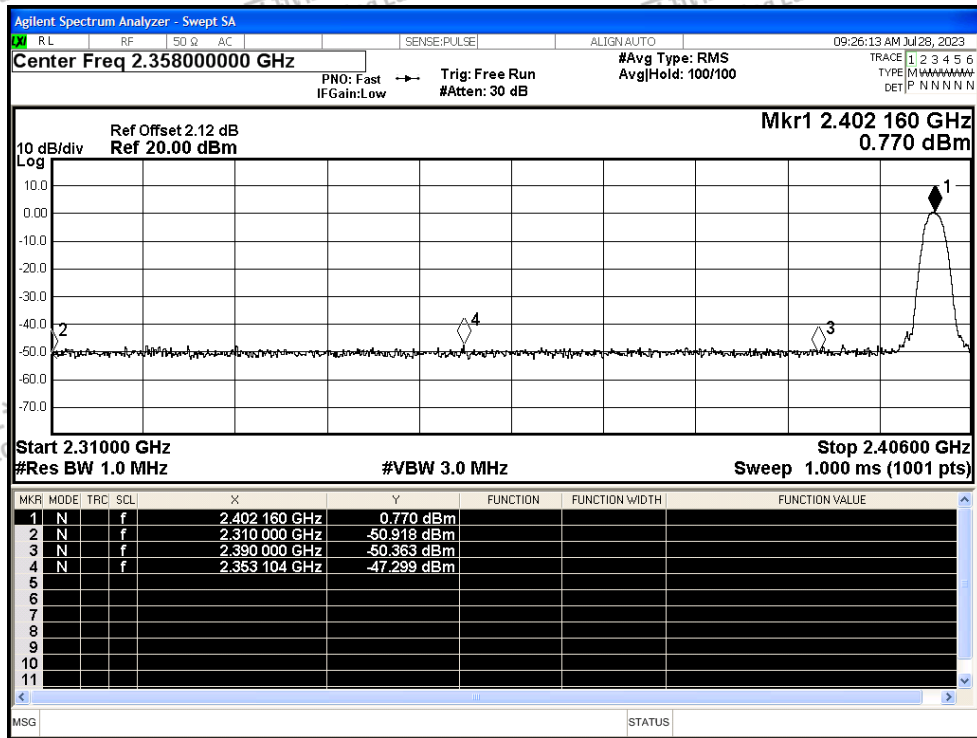


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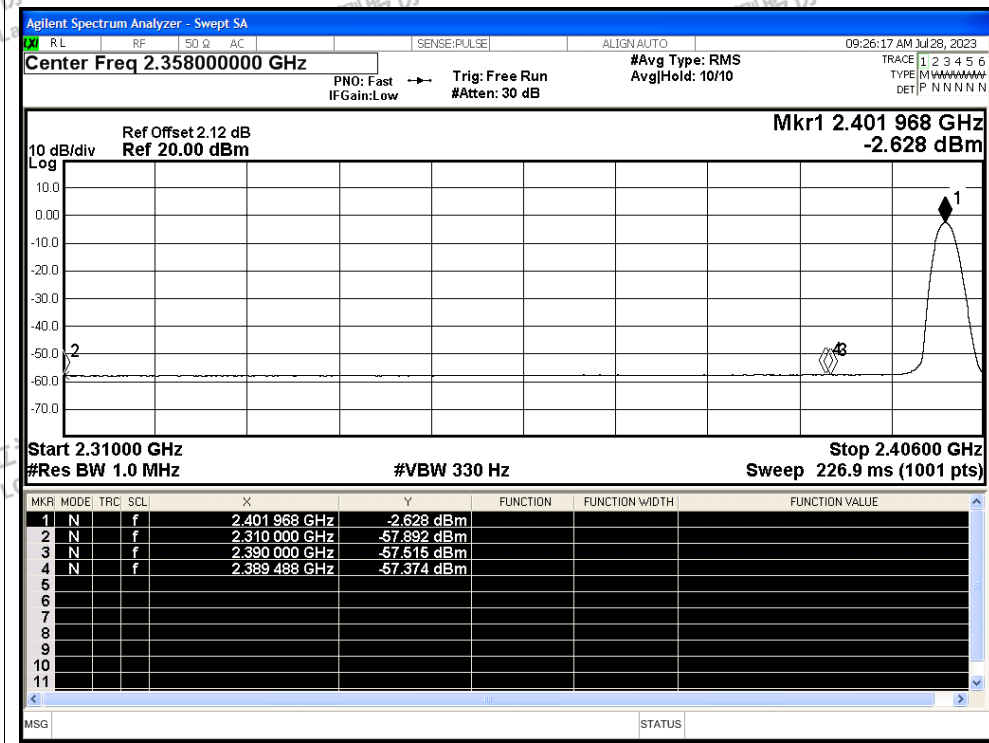




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

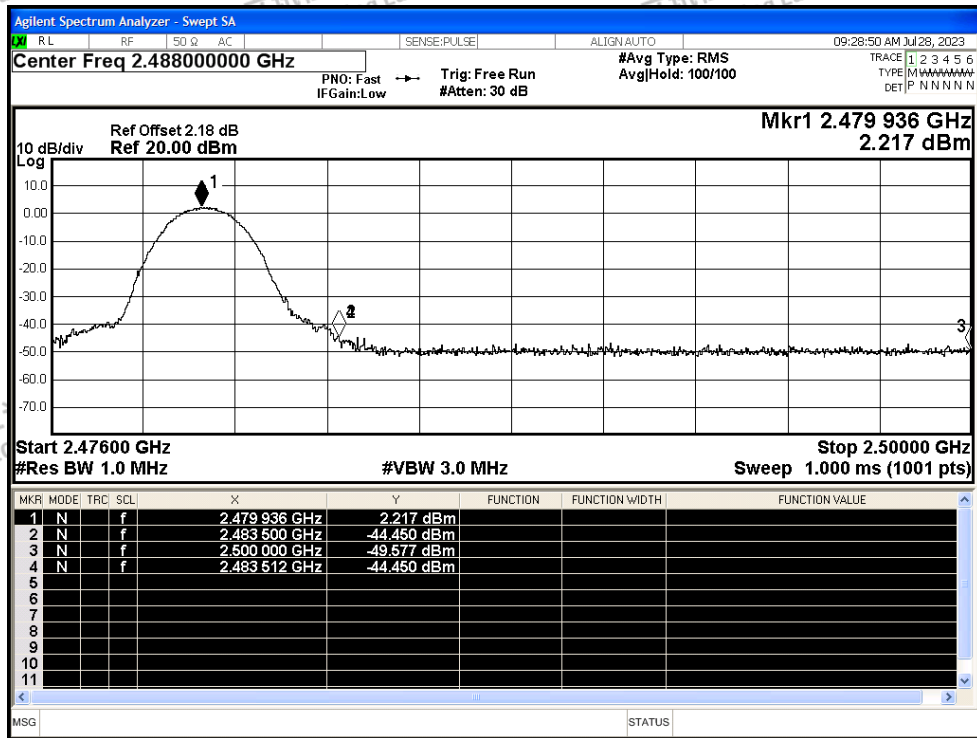


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

