



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Air Conduction Earphone

Test Model: Z65S

#### Environmental Conditions

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





### A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.945	0	Pass
NVNT	1-DH5	2441	Ant1	0.952	0	Pass
NVNT	1-DH5	2480	Ant1	0.938	0	Pass
NVNT	2-DH5	2402	Ant1	1.275	0	Pass
NVNT	2-DH5	2441	Ant1	1.275	0	Pass
NVNT	2-DH5	2480	Ant1	1.276	0	Pass
NVNT	3-DH5	2402	Ant1	1.271	0	Pass
NVNT	3-DH5	2441	Ant1	1.229	0	Pass
NVNT	3-DH5	2480	Ant1	1.273	0	Pass

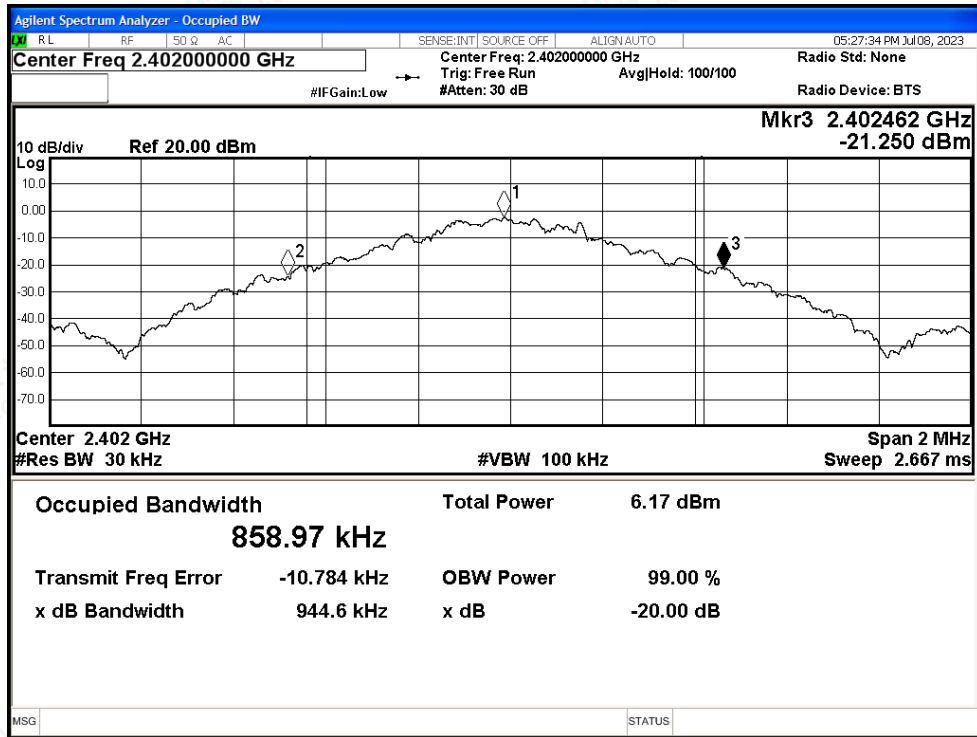


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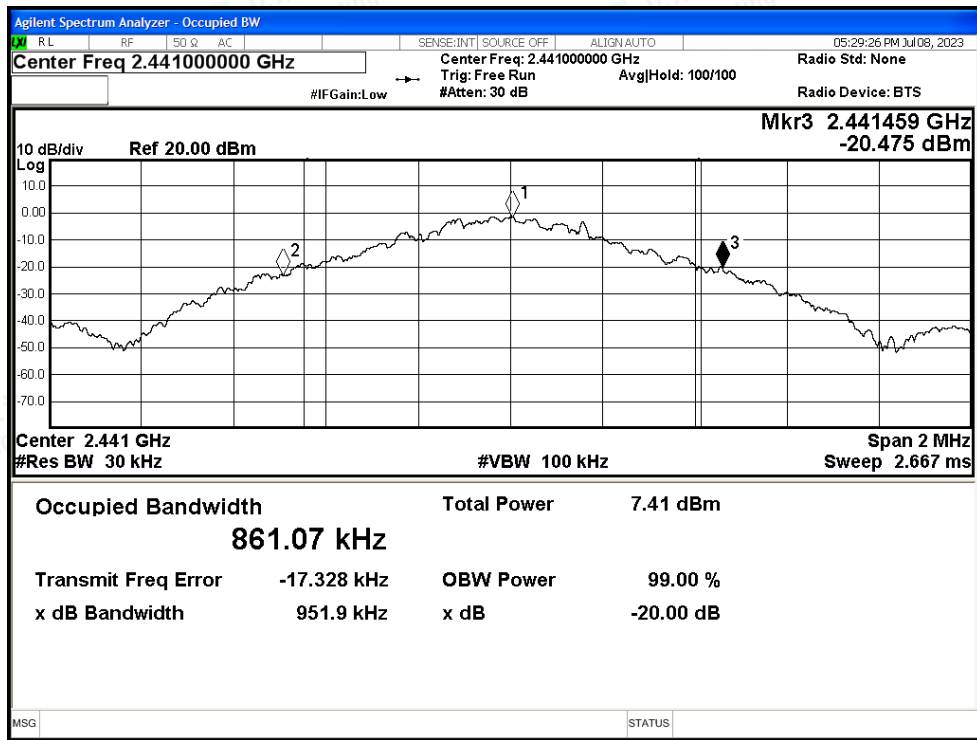


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

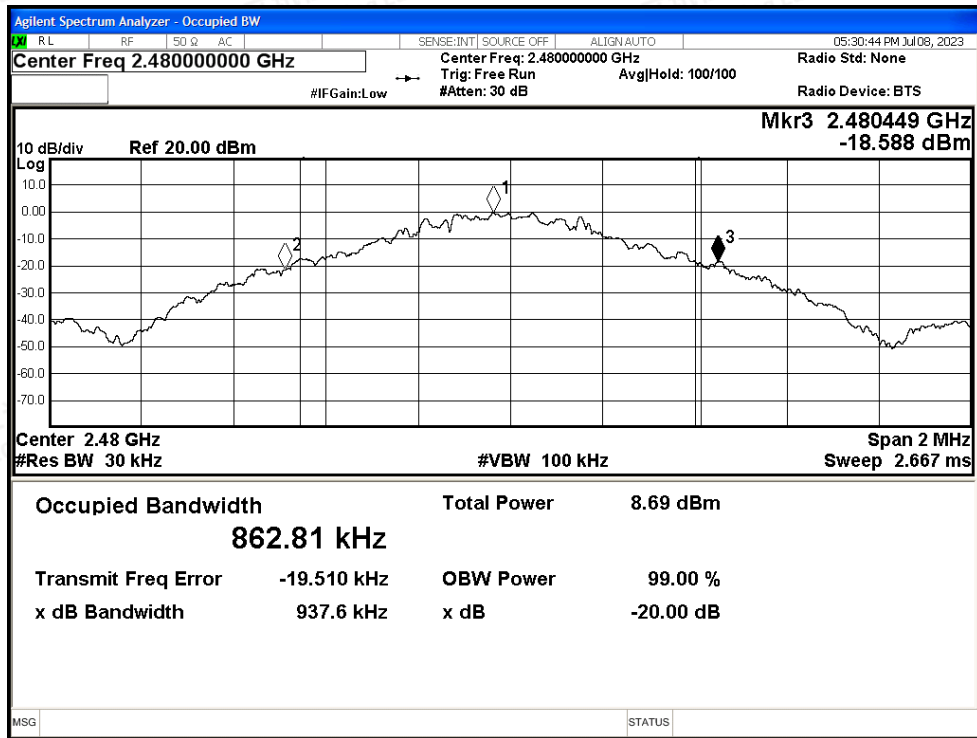


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

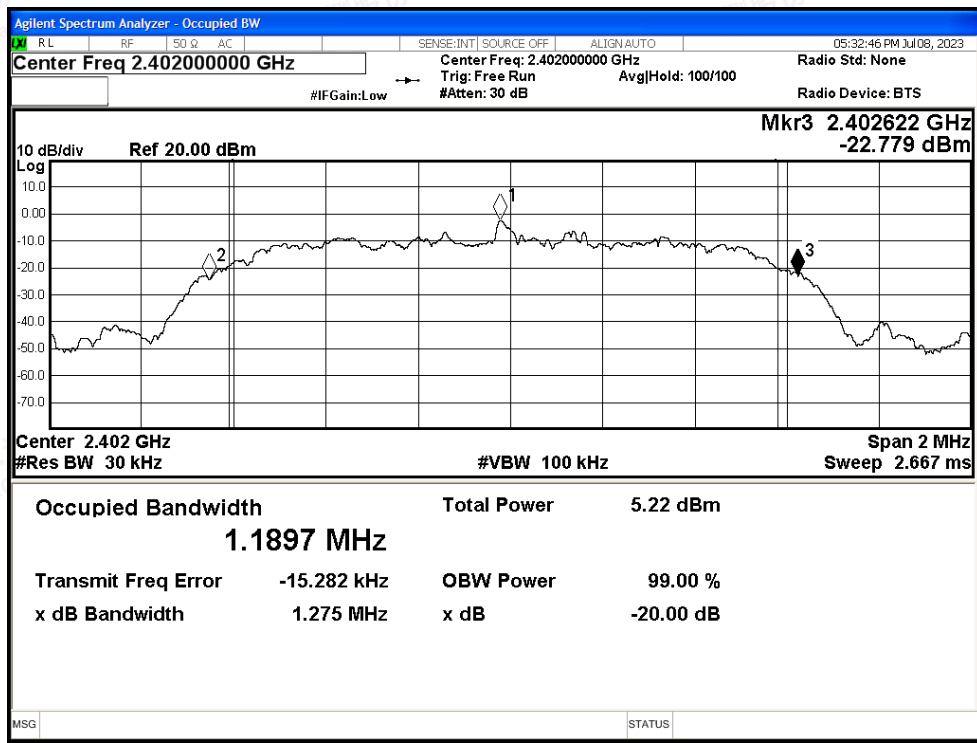




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

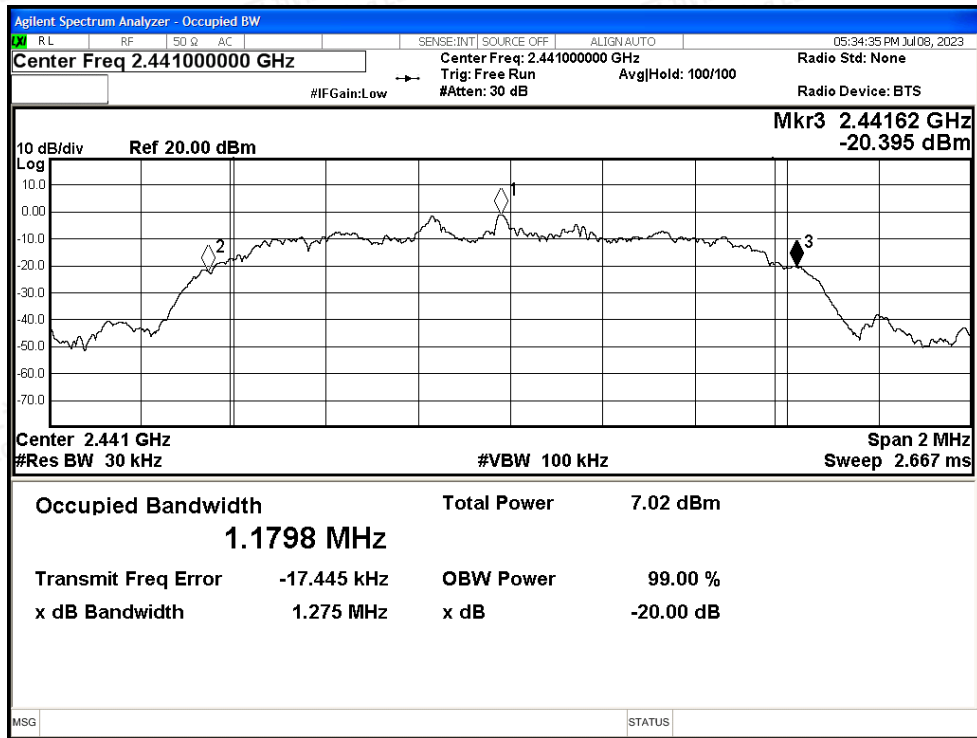


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

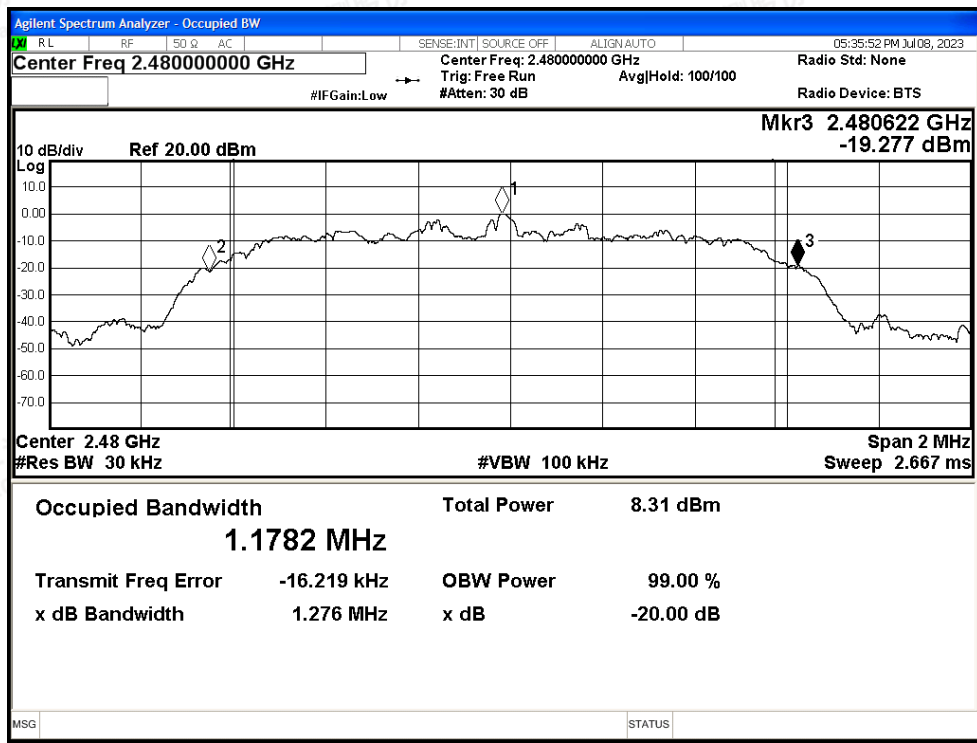




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

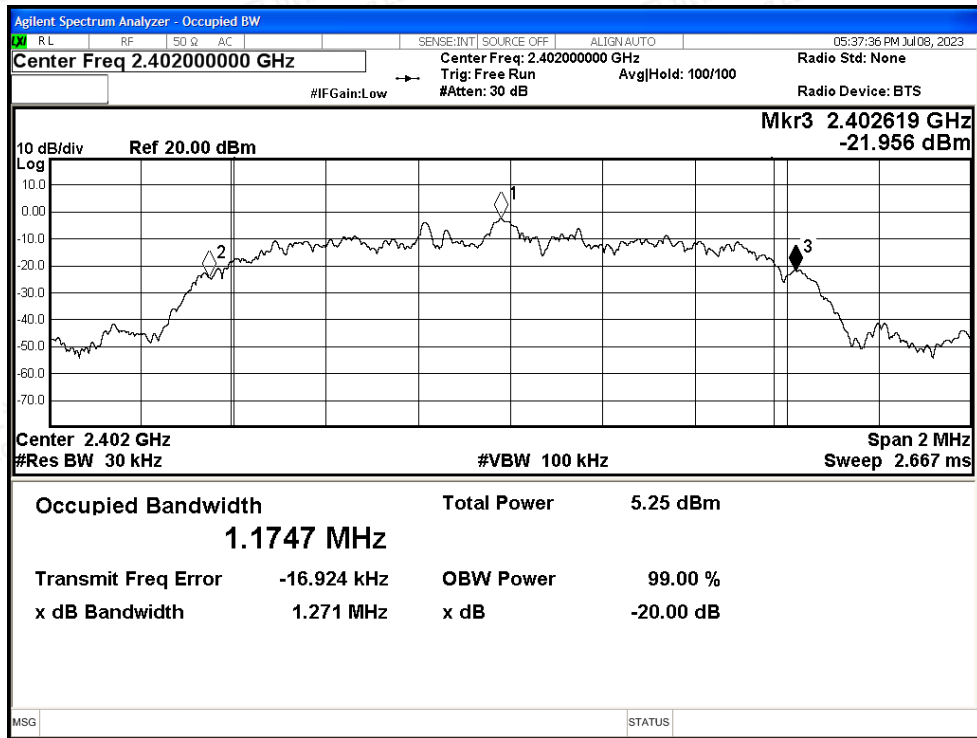


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

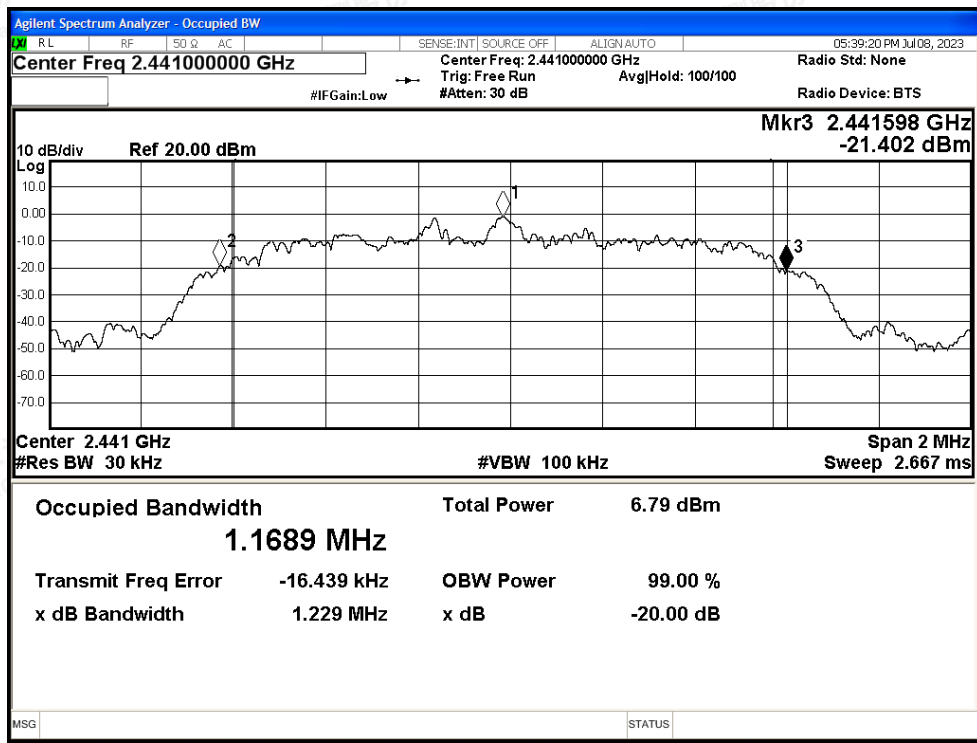




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

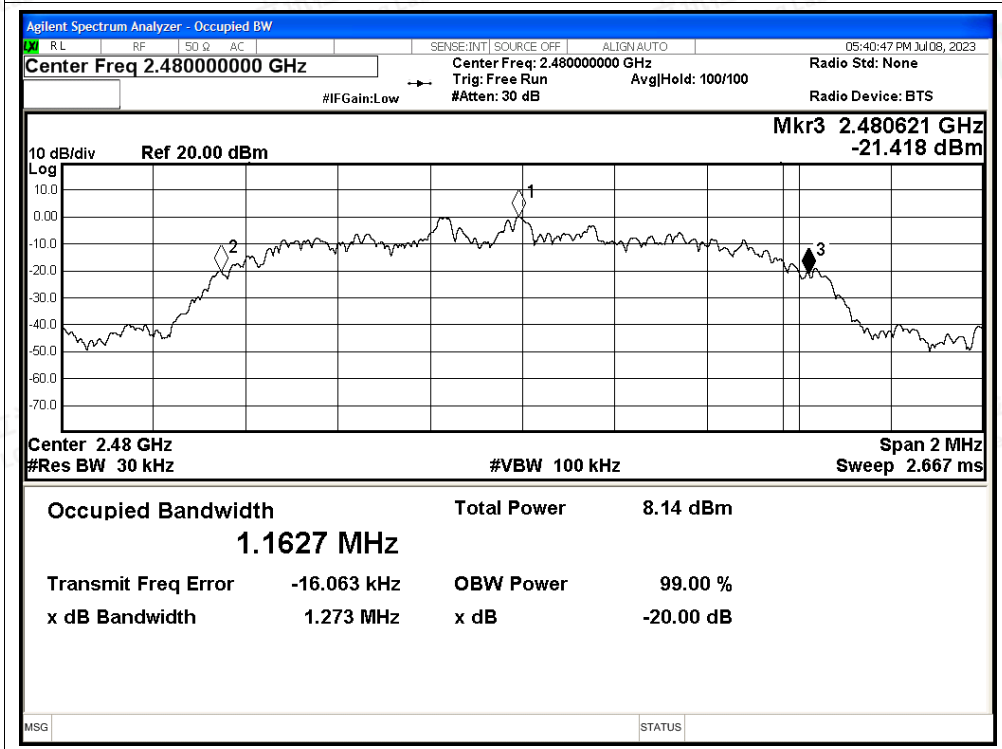


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.12	21	Pass
NVNT	1-DH5	2441	Ant1	1.21	21	Pass
NVNT	1-DH5	2480	Ant1	0.09	21	Pass
NVNT	2-DH5	2402	Ant1	0.72	21	Pass
NVNT	2-DH5	2441	Ant1	2.11	21	Pass
NVNT	2-DH5	2480	Ant1	0.99	21	Pass
NVNT	3-DH5	2402	Ant1	0.80	21	Pass
NVNT	3-DH5	2441	Ant1	2.22	21	Pass
NVNT	3-DH5	2480	Ant1	1.04	21	Pass

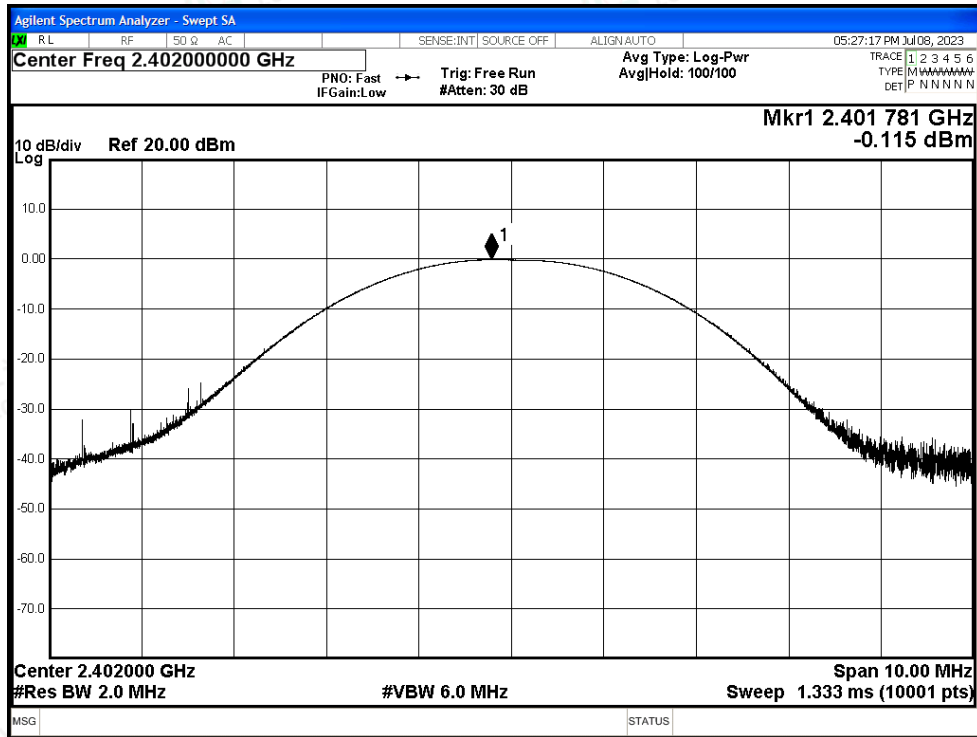




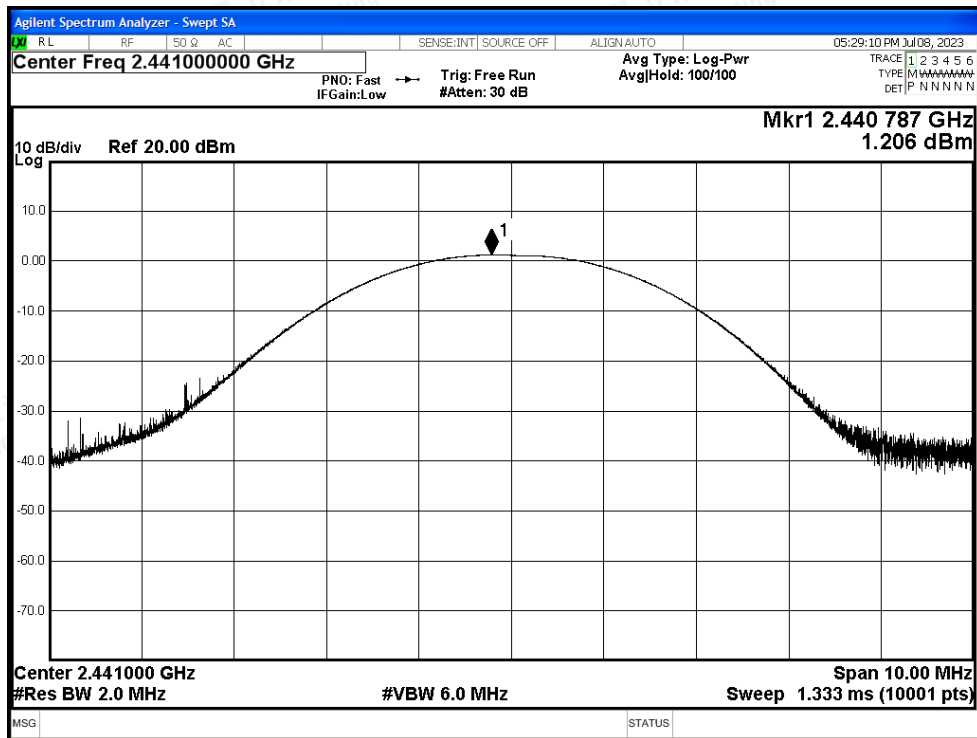


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

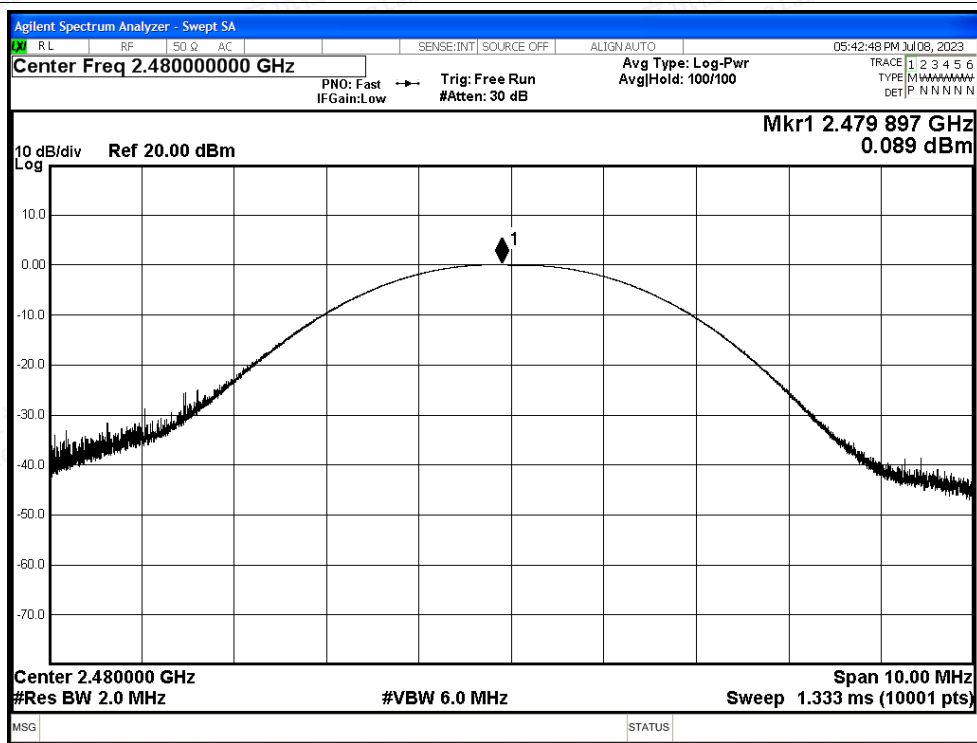


Power NVNT 1-DH5 2441MHz Ant1

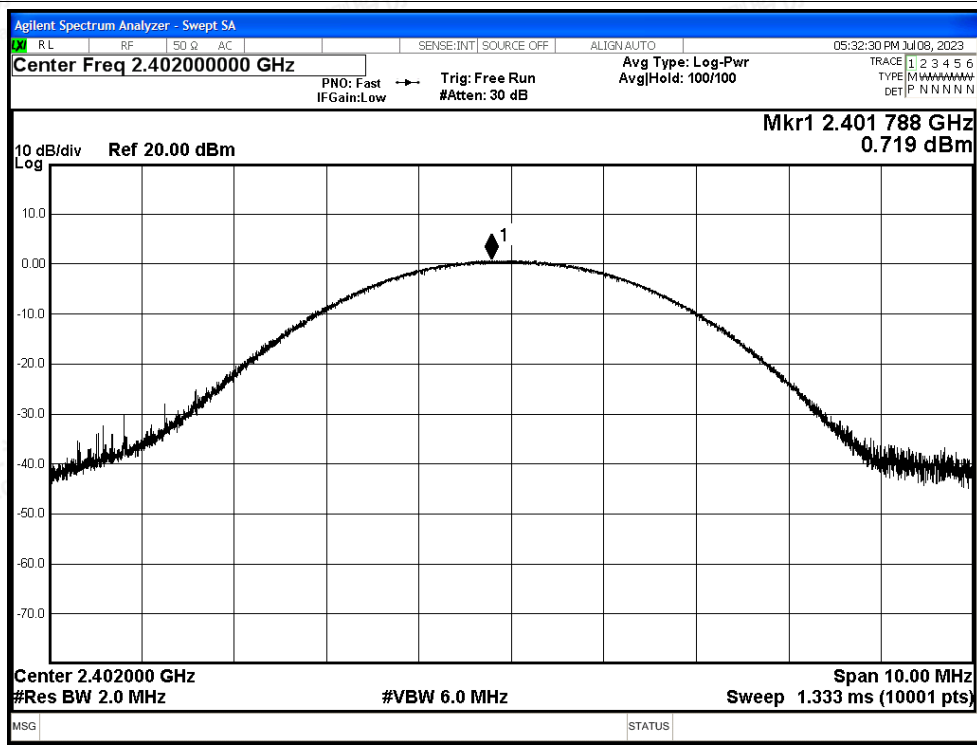




Power NVNT 1-DH5 2480MHz Ant1

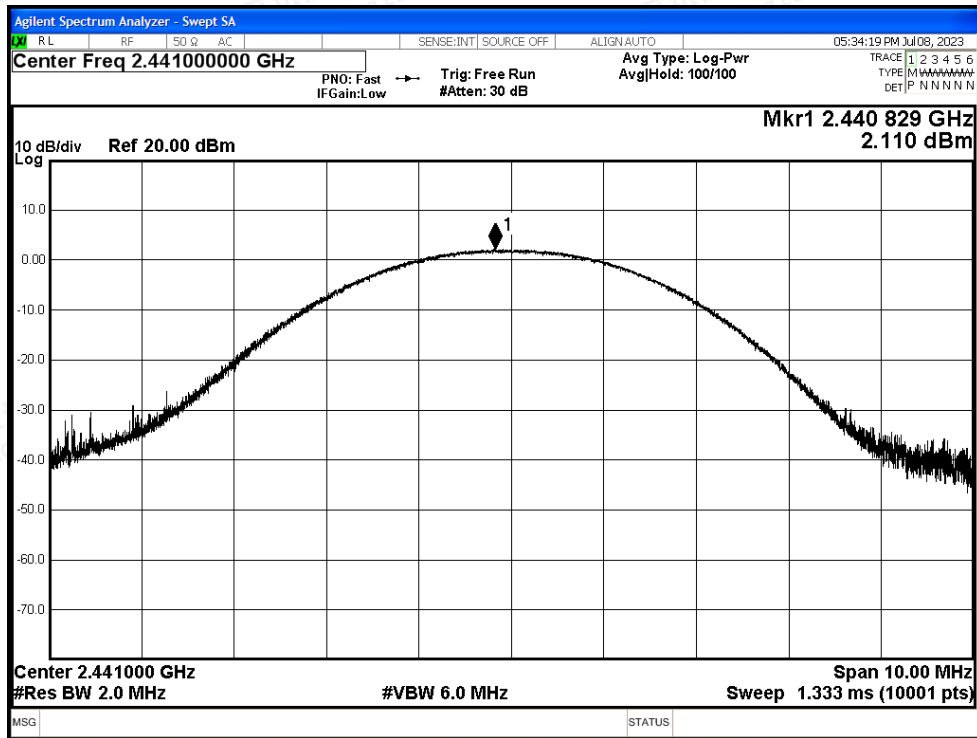


Power NVNT 2-DH5 2402MHz Ant1

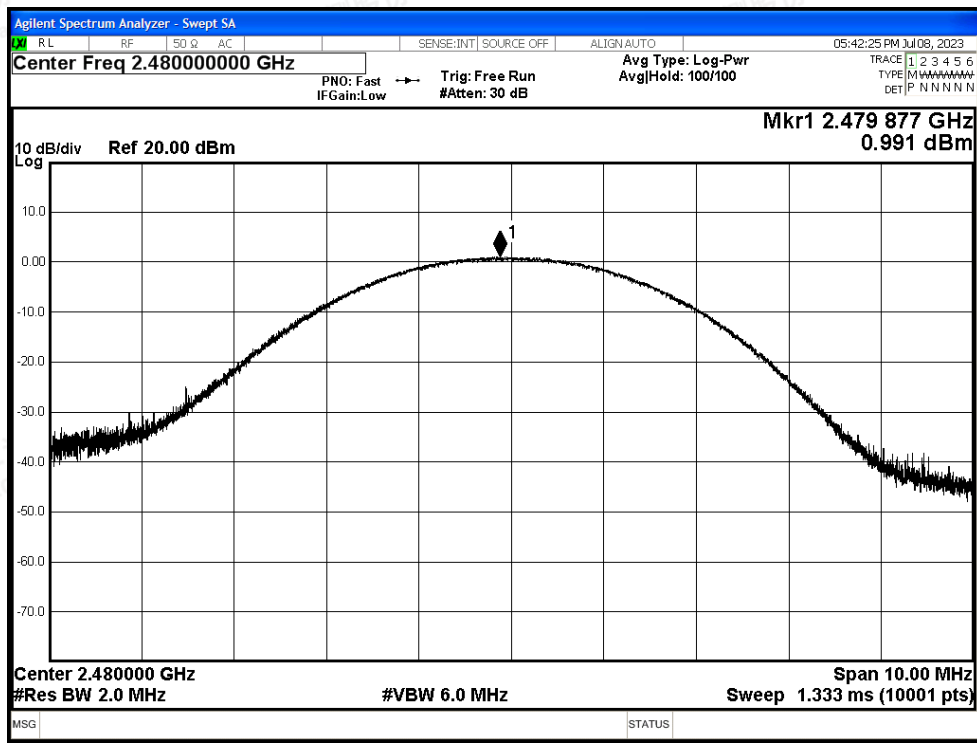




Power NVNT 2-DH5 2441MHz Ant1

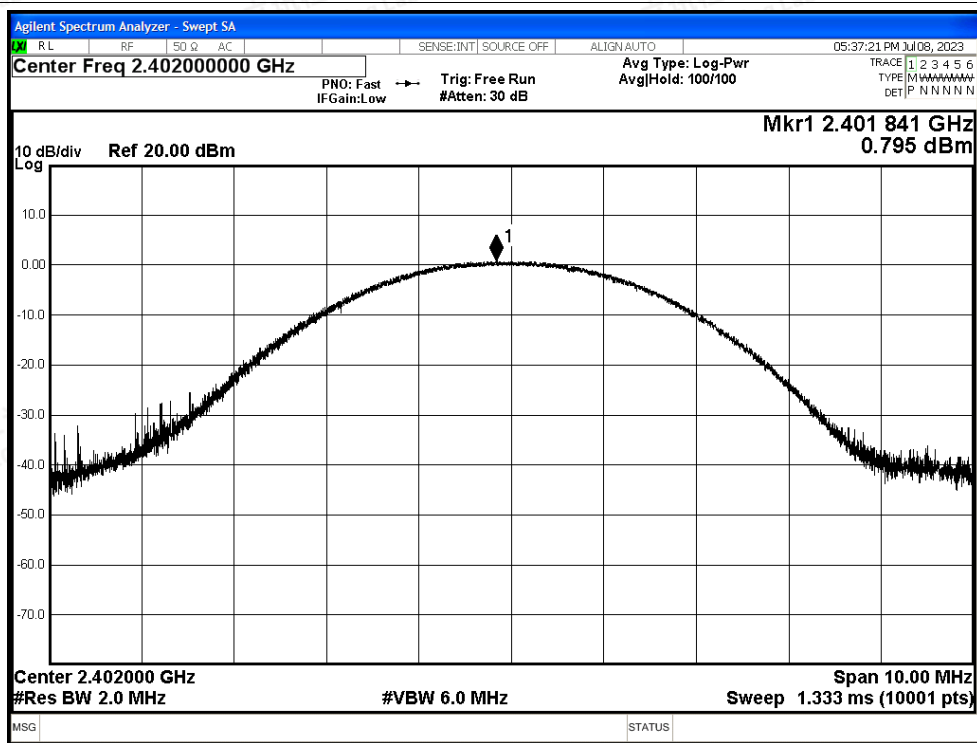


Power NVNT 2-DH5 2480MHz Ant1

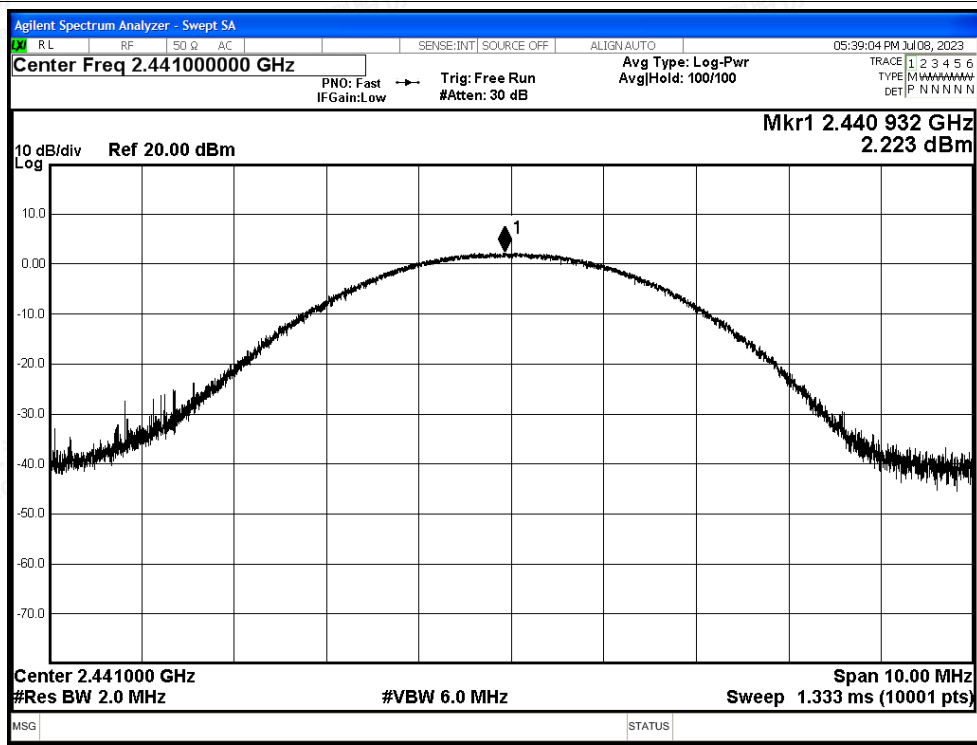


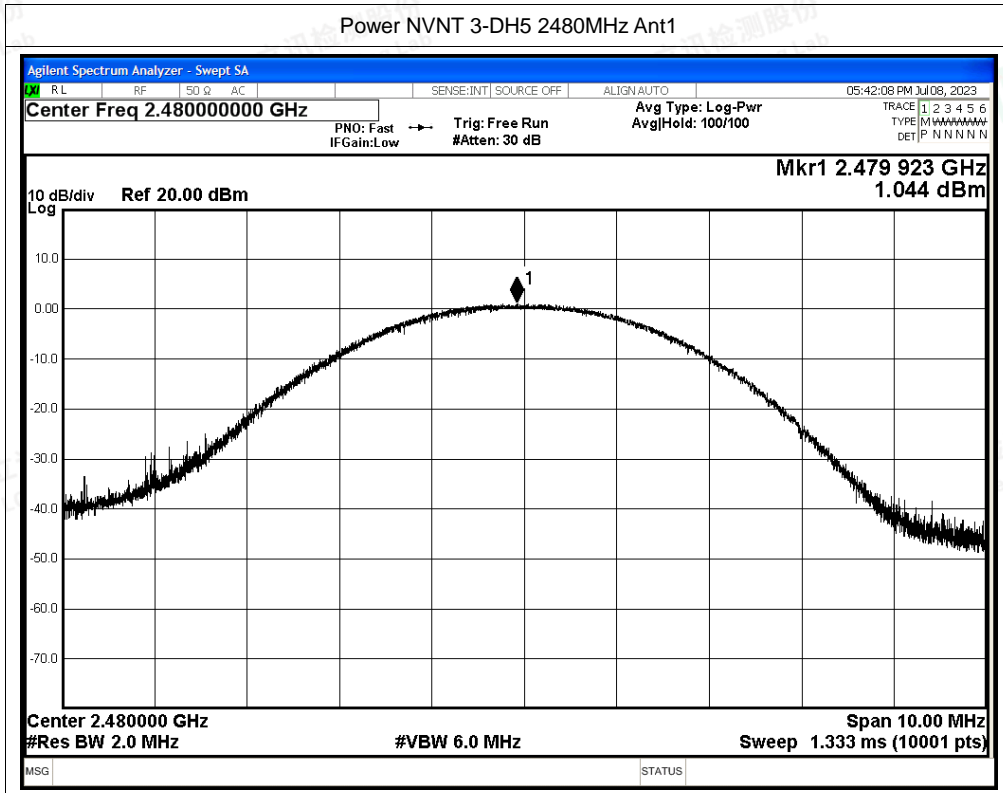


Power NVNT 3-DH5 2402MHz Ant1



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	2401.964	2402.988	1.024	0.635	Pass
NVNT	2-DH5	Ant1	2401.984	2402.98	0.996	0.851	Pass
NVNT	3-DH5	Ant1	2401.978	2403.004	1.026	0.849	Pass

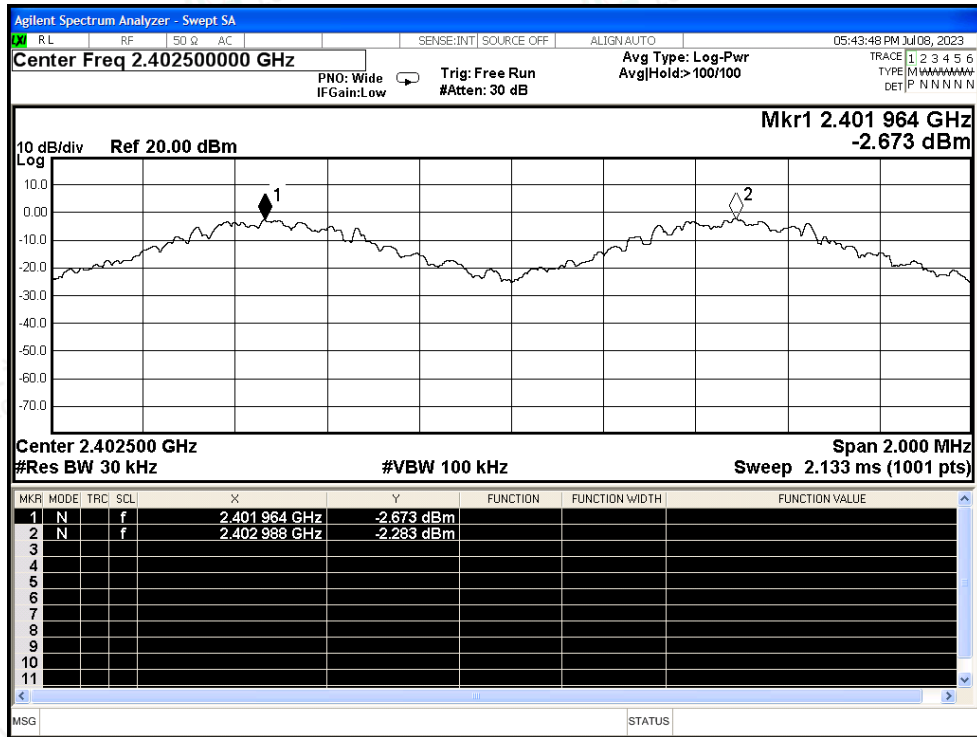


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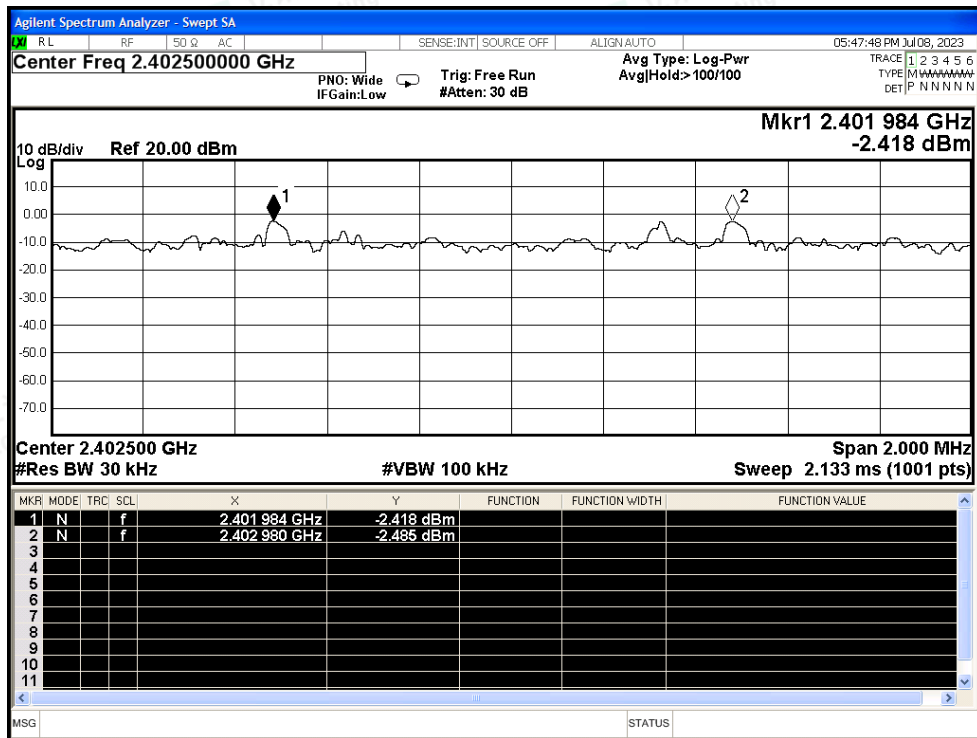


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

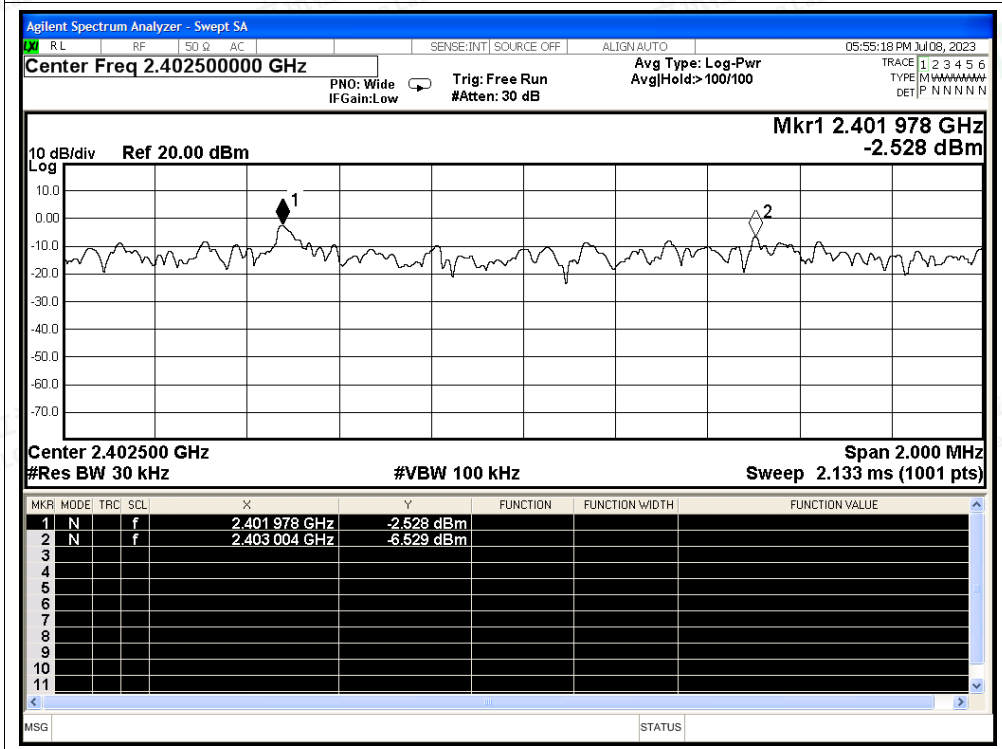


CFS NVNT 2-DH5 2402MHz Ant1





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	305.492	106	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	317.35	110	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	311.796	108	31600	400	Pass

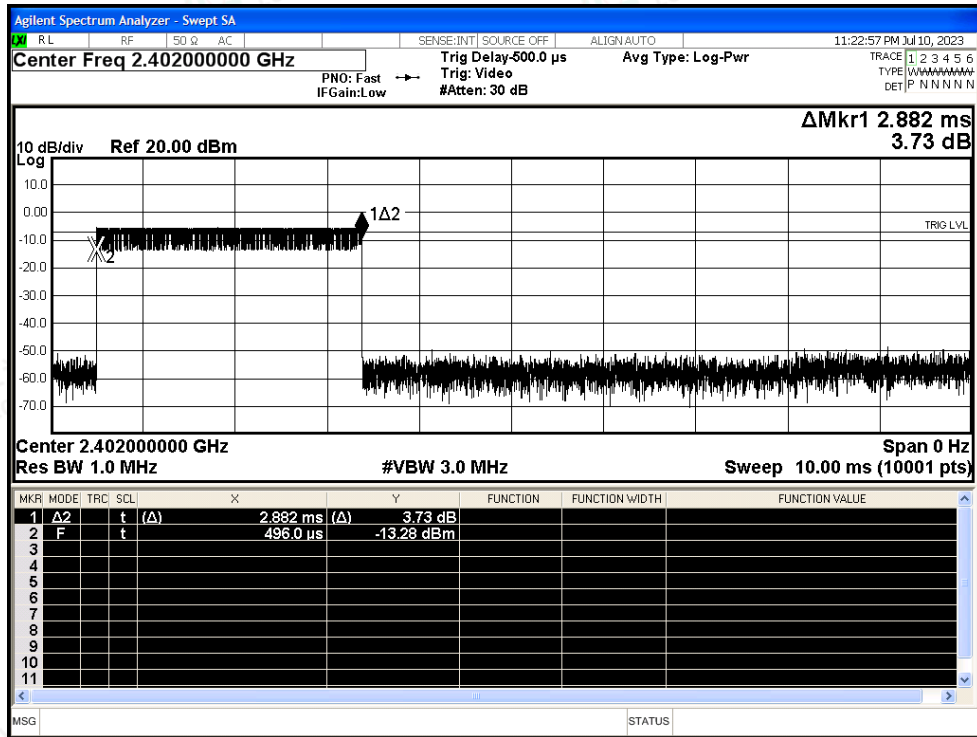


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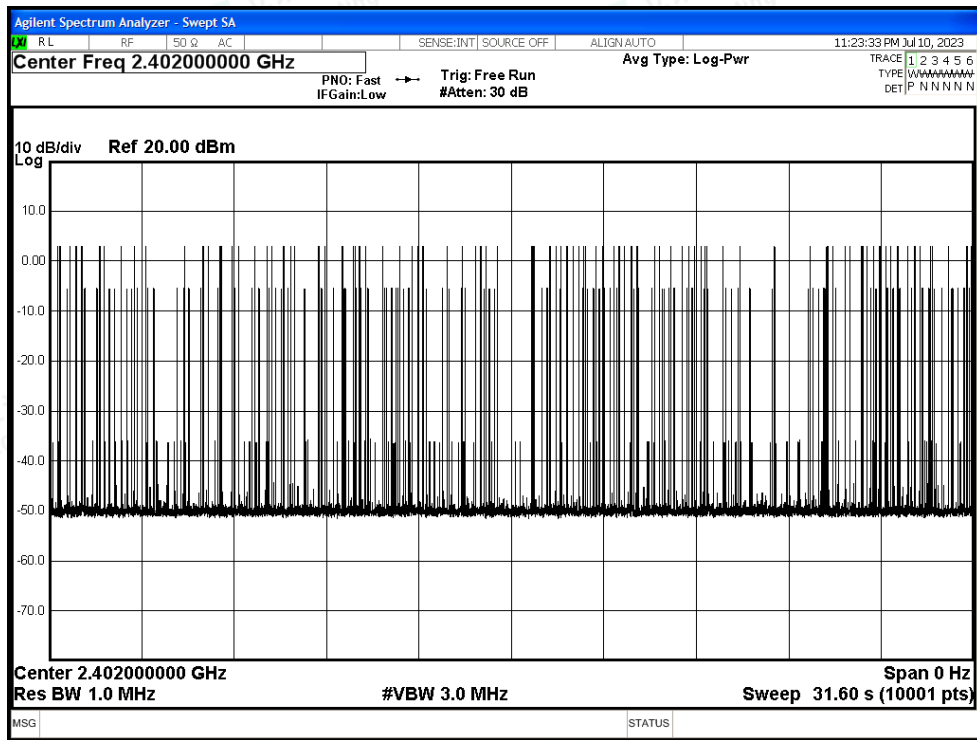


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

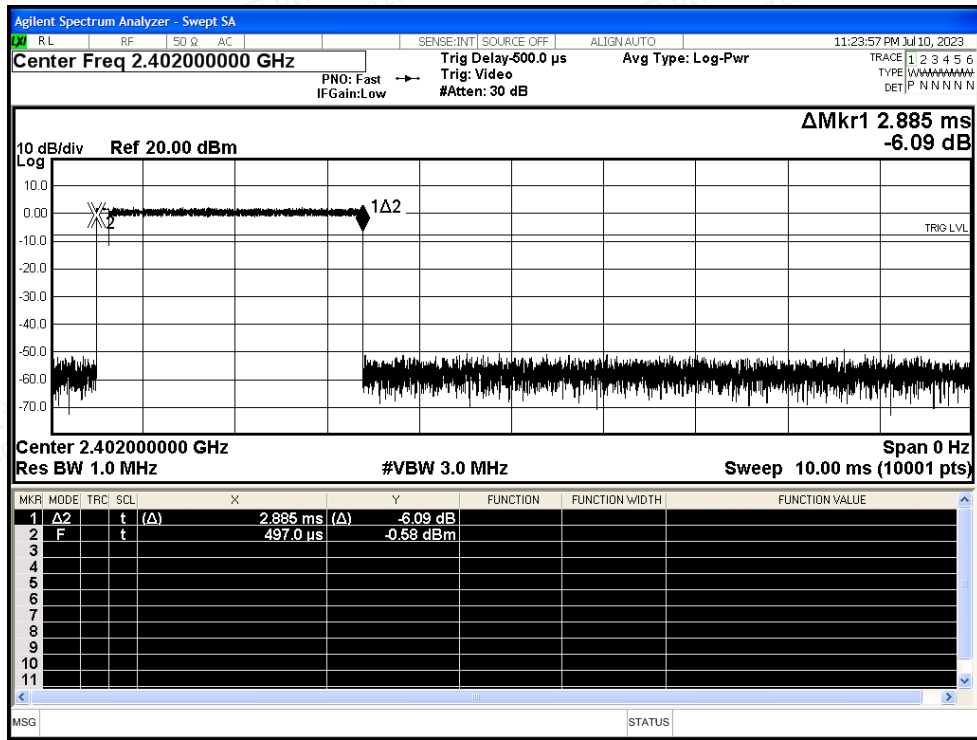


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

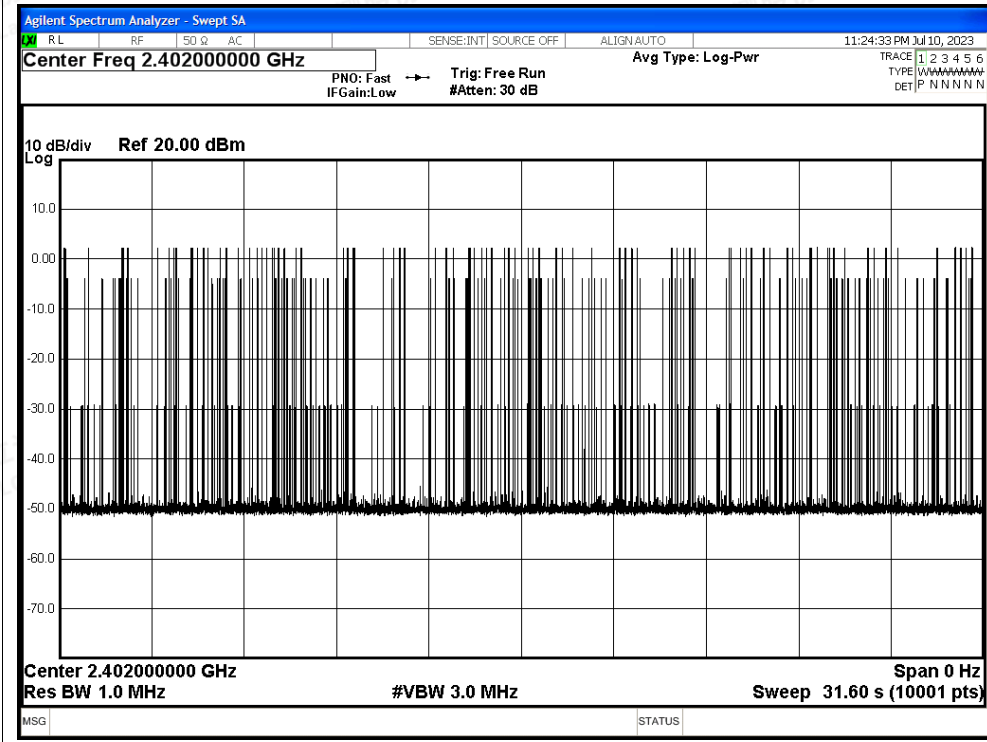




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

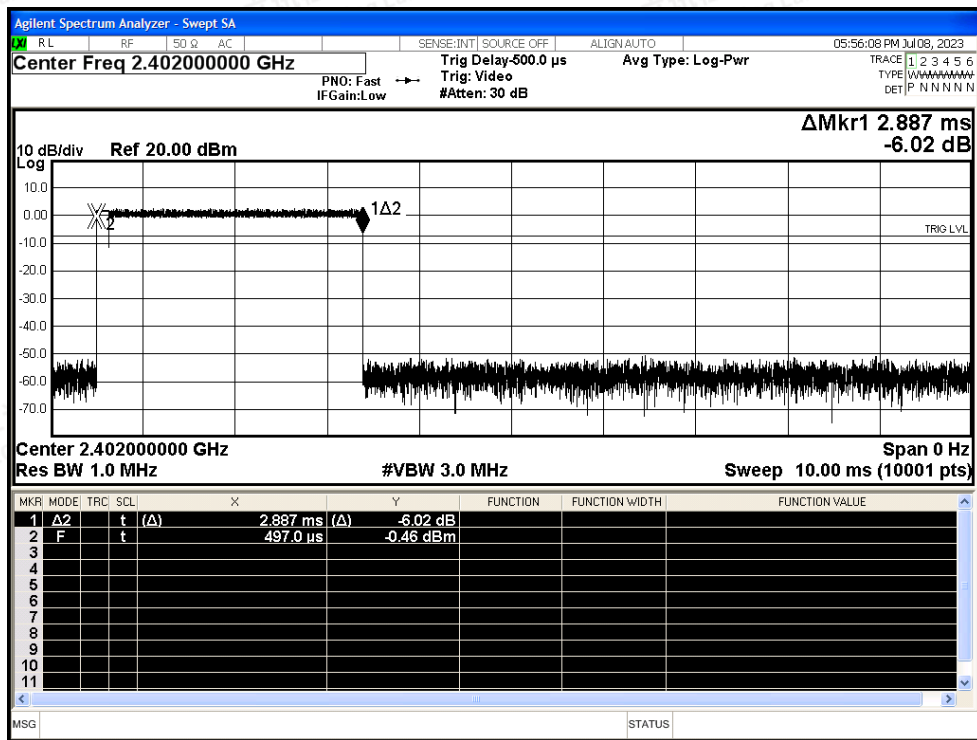


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

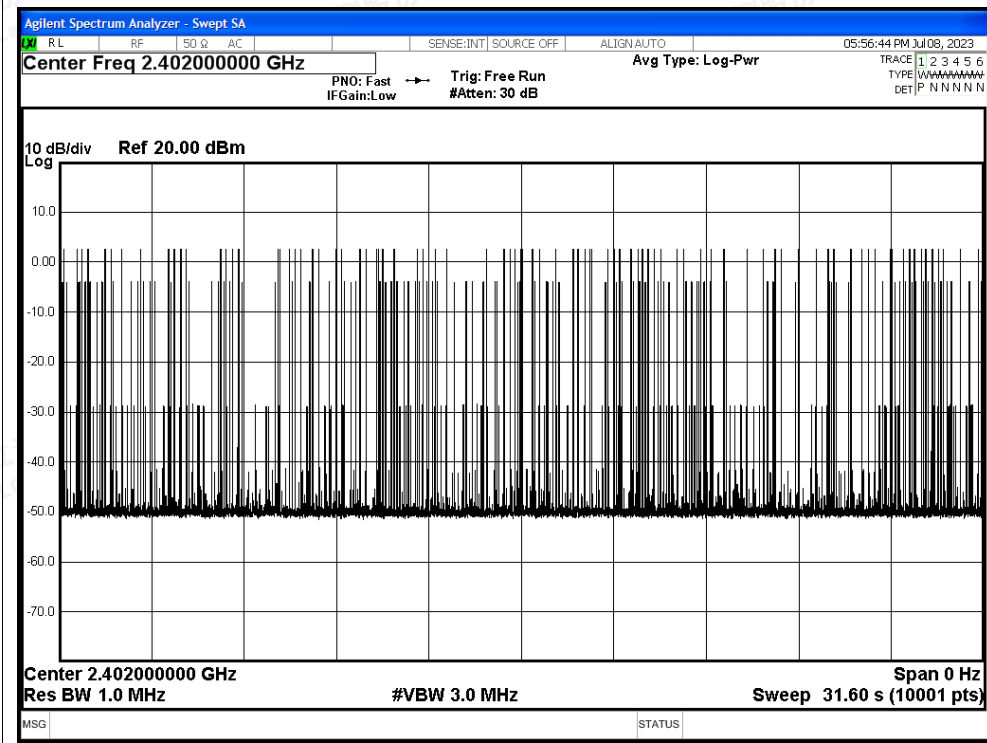




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





## A.5 Number of Hopping Channel

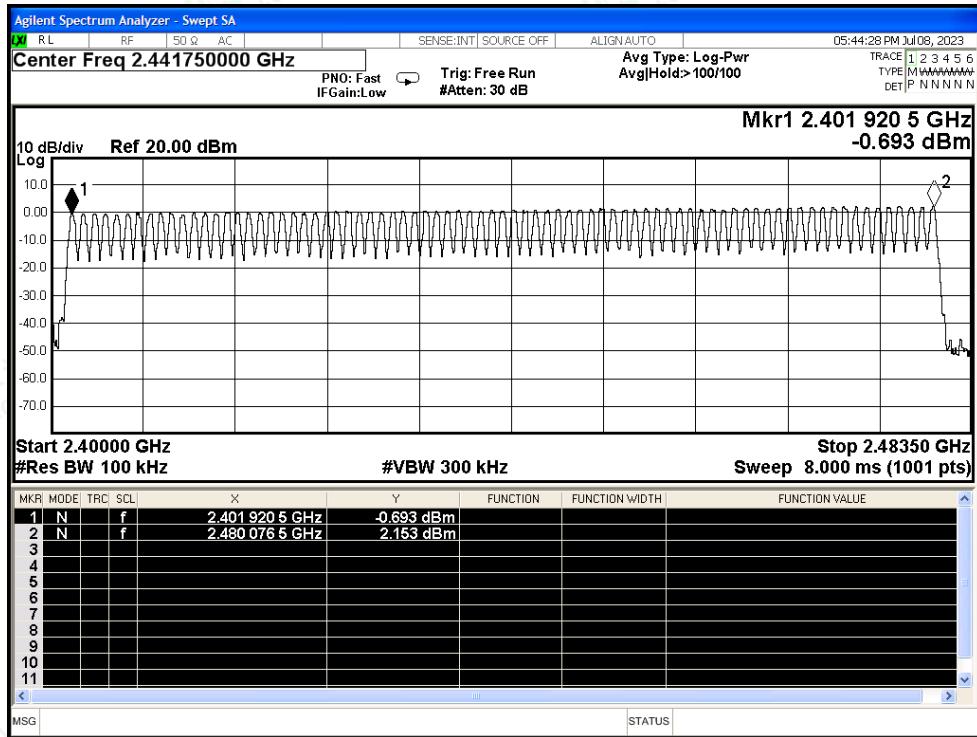
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



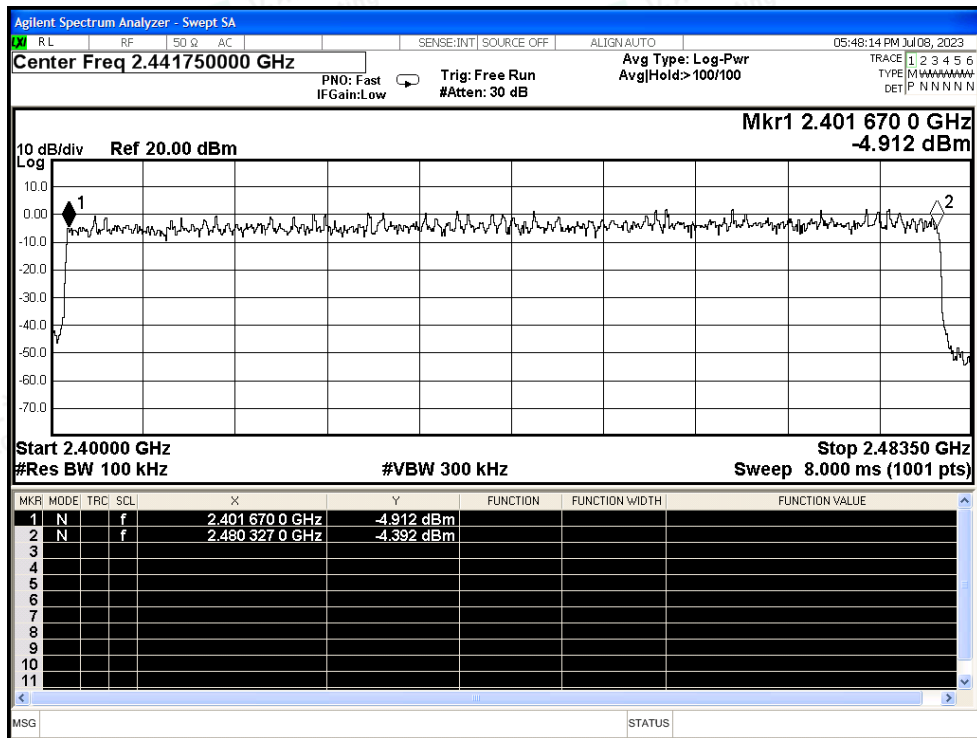


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

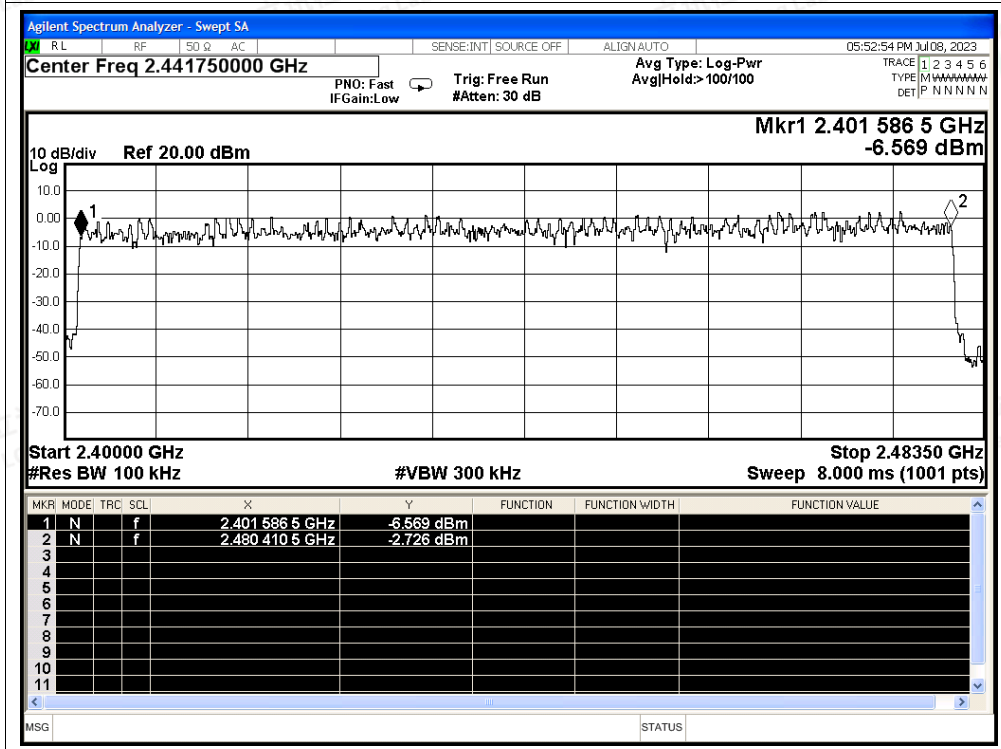


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





## A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-36.81	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-48.41	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-37.51	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.19	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-35.6	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.7	-20	Pass



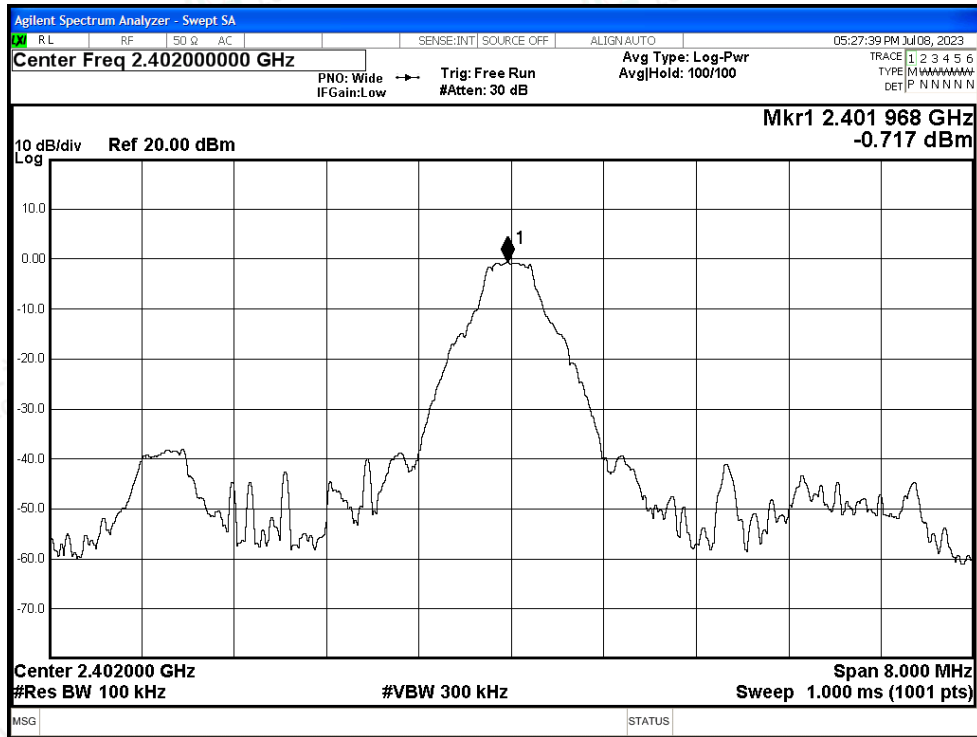
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Scan code to check authenticity



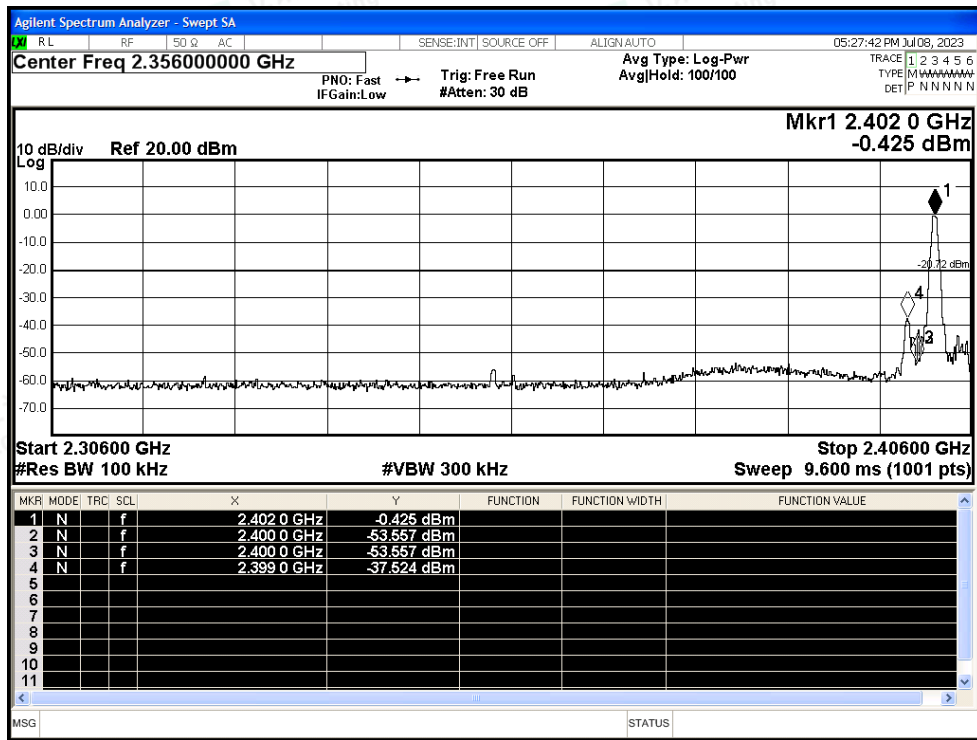


Test Graphs

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

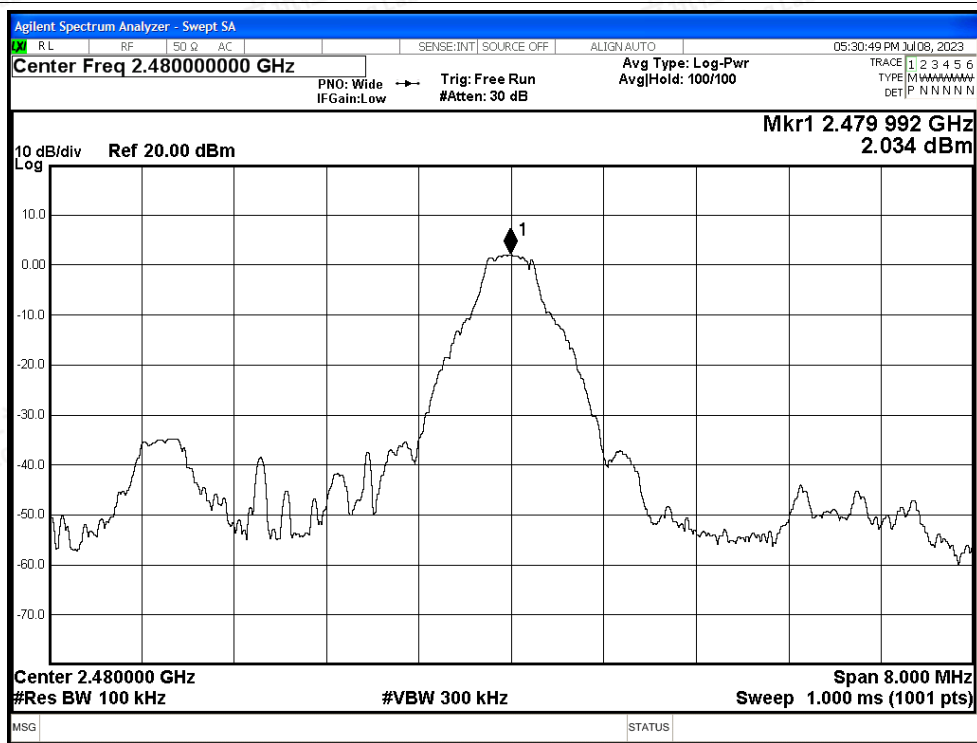


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

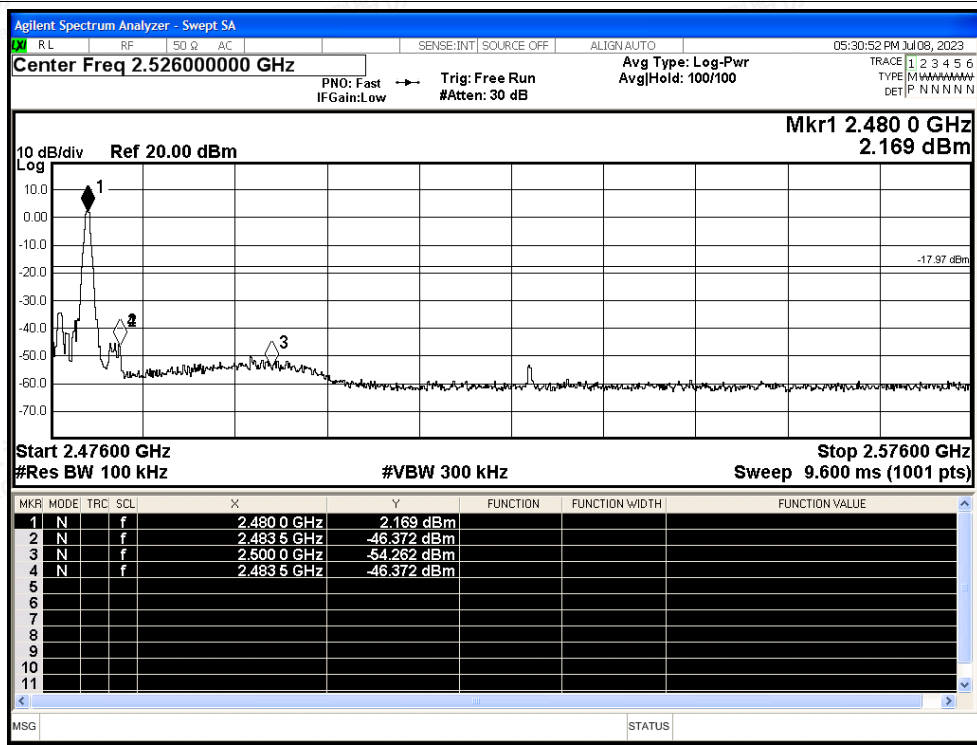




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

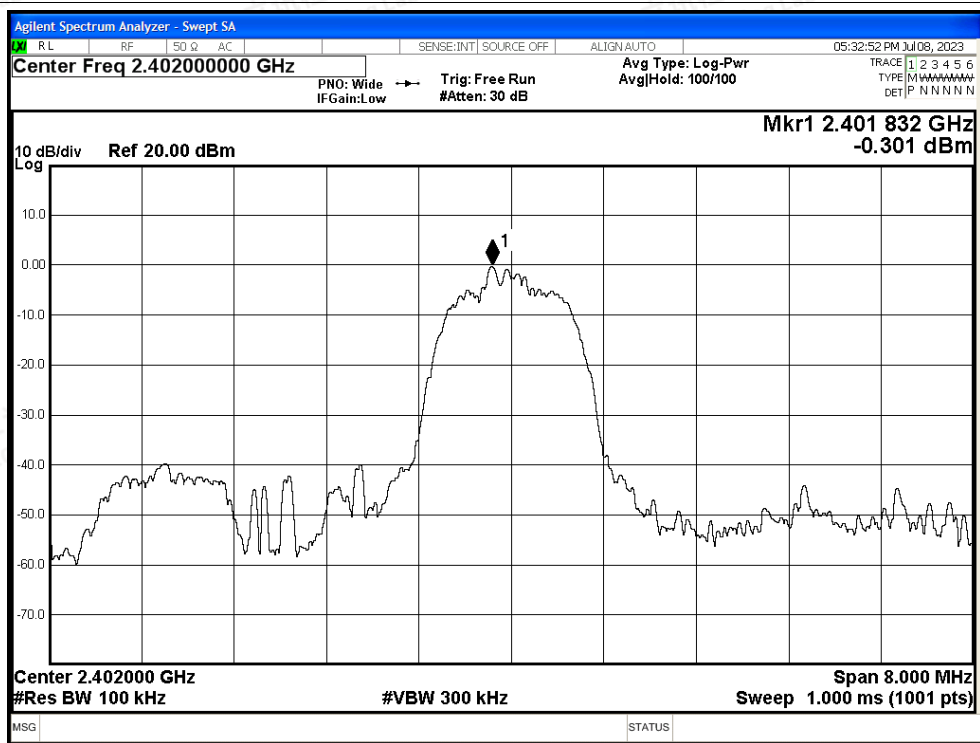


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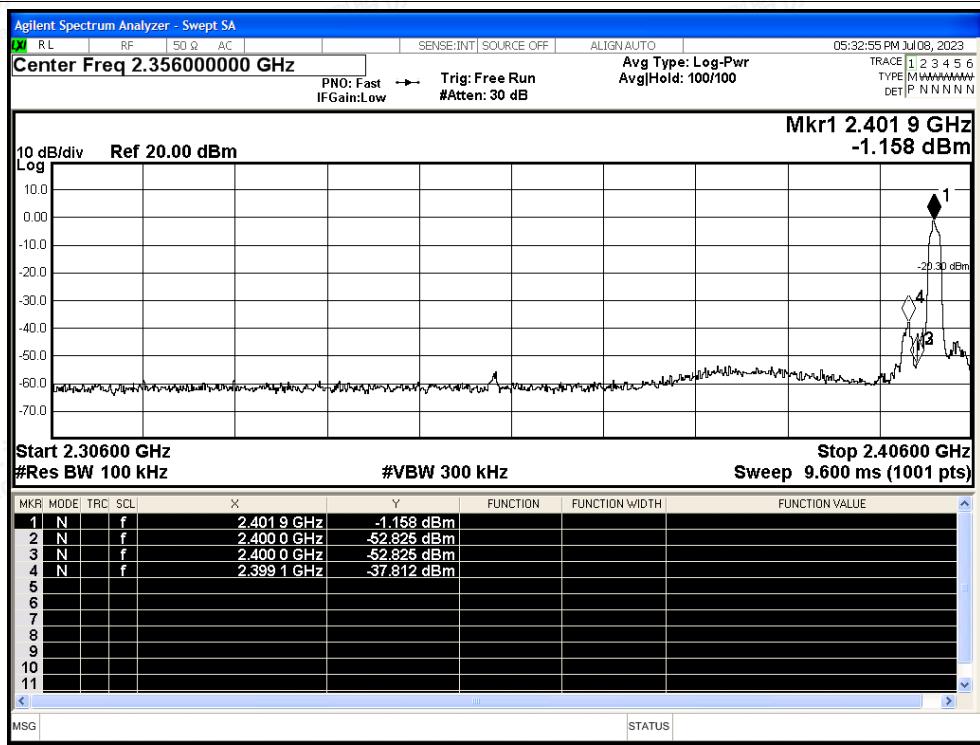




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

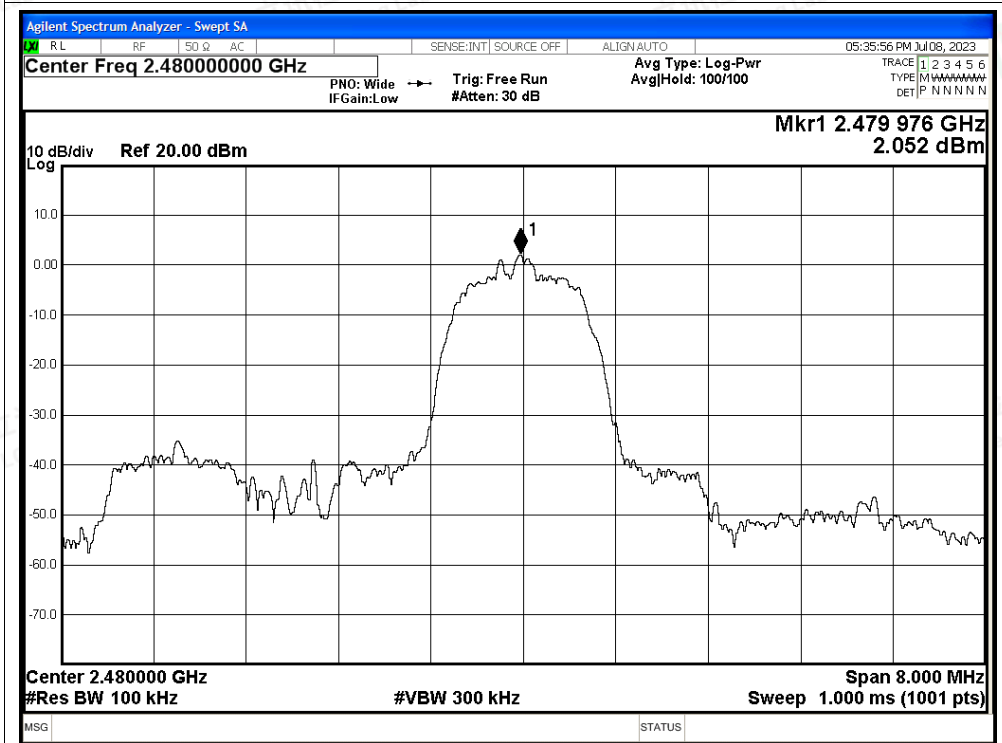


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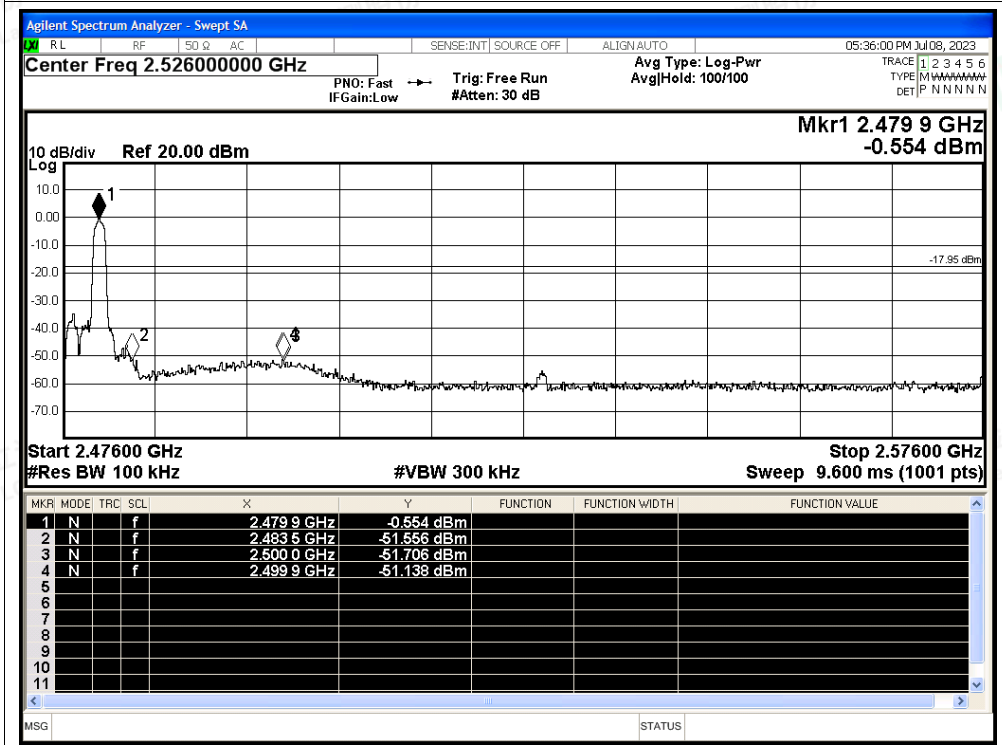




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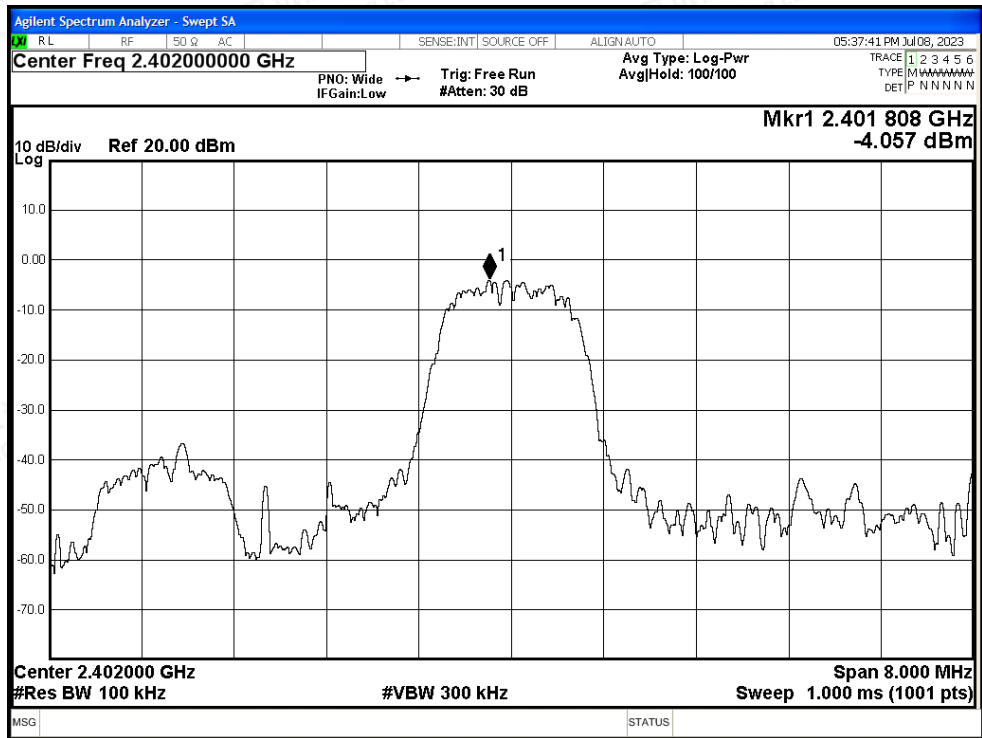


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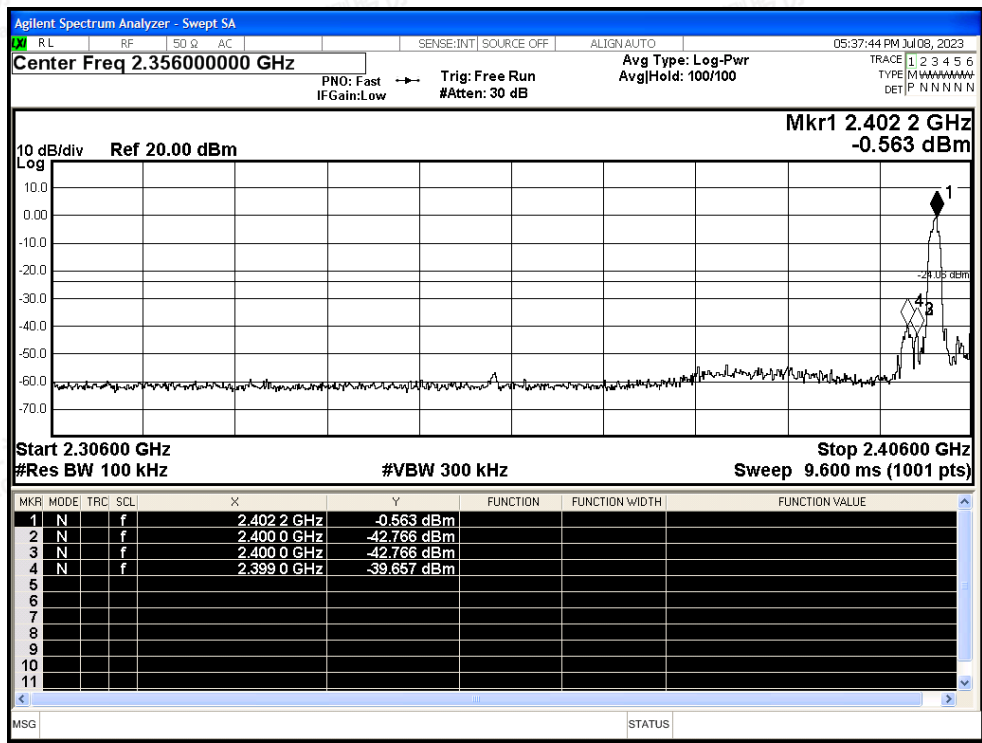




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

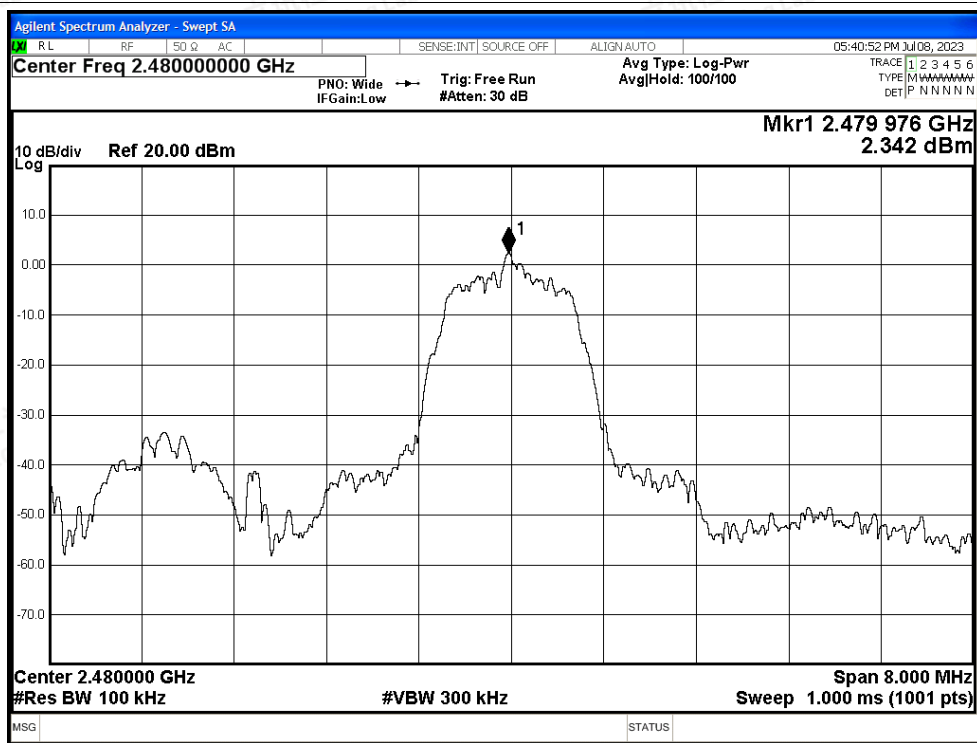


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

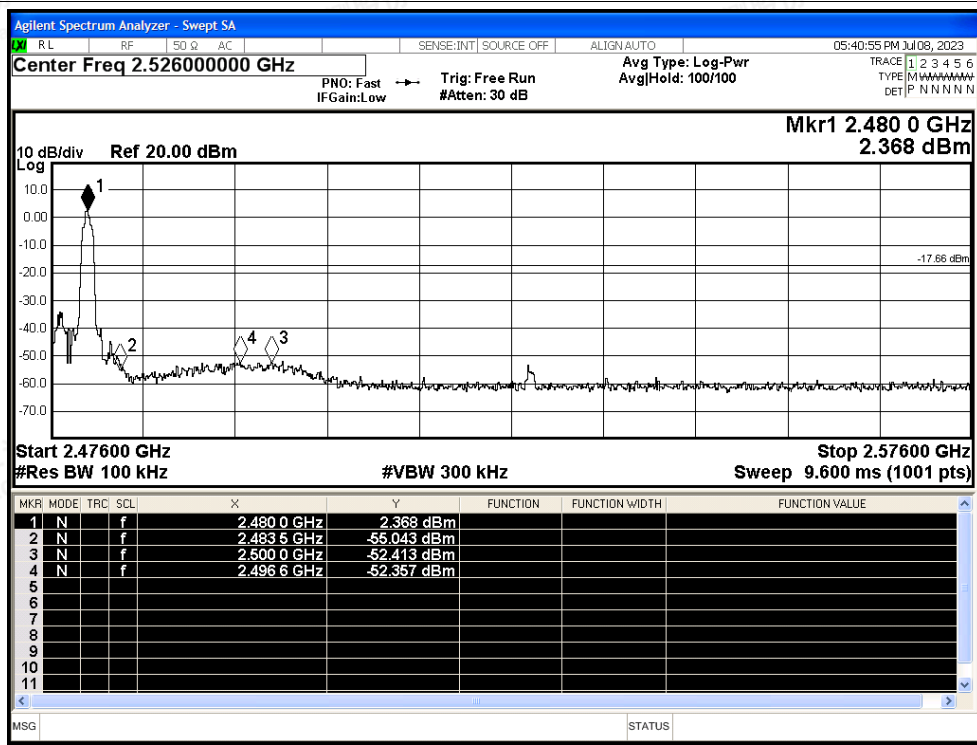




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





### (Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.49	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-49.58	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.82	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-51.2	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.64	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.34	-20	Pass

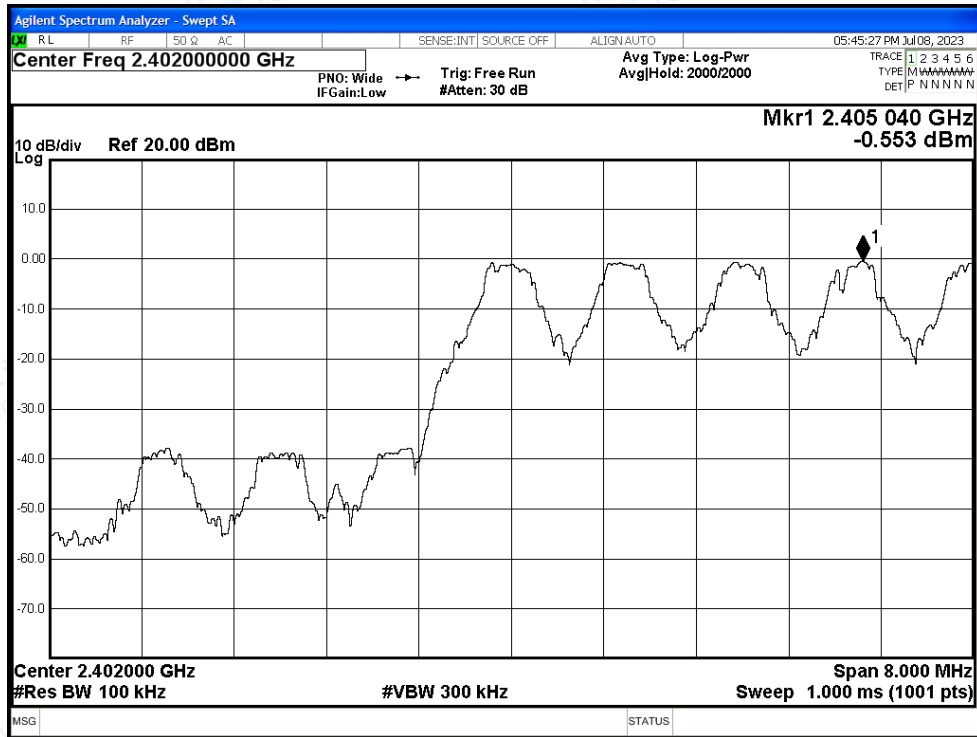


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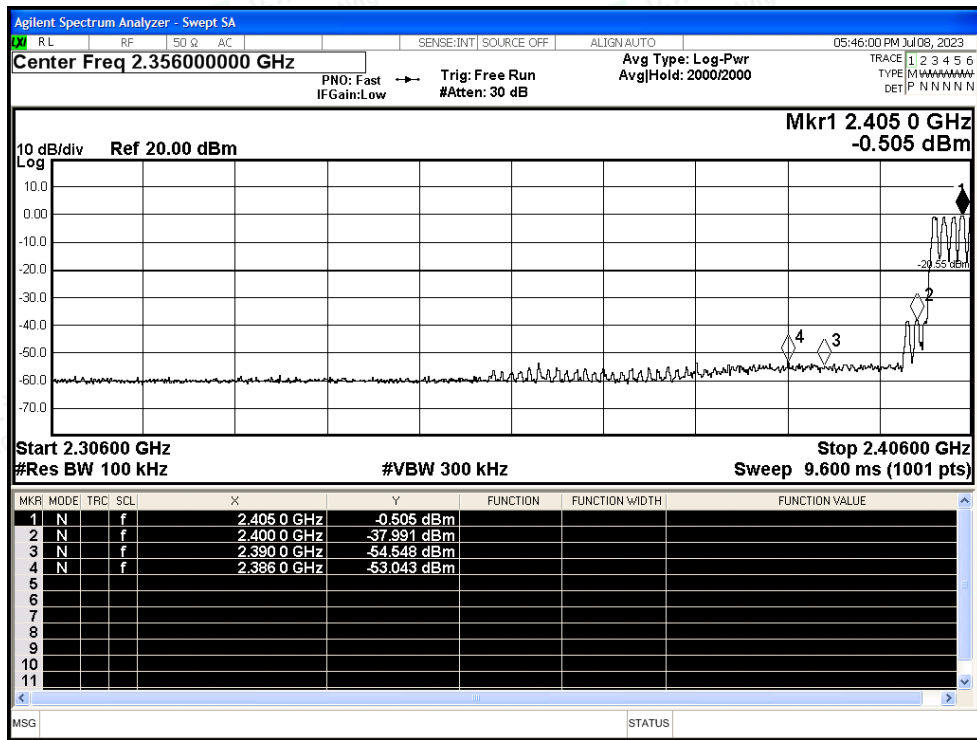


Test Graphs

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



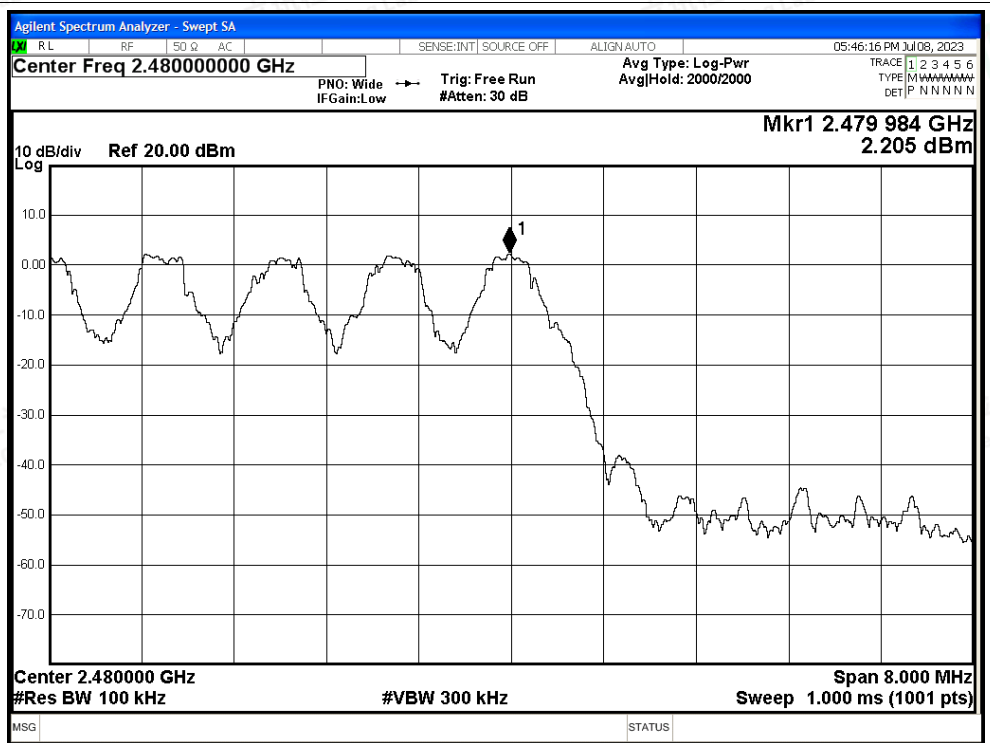
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



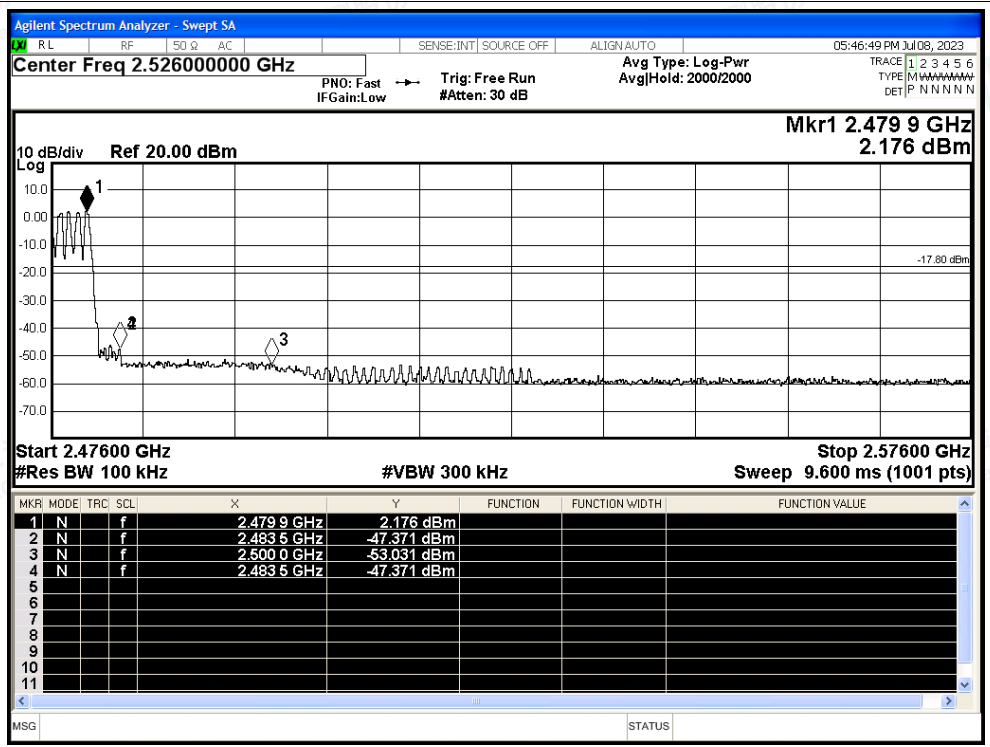




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

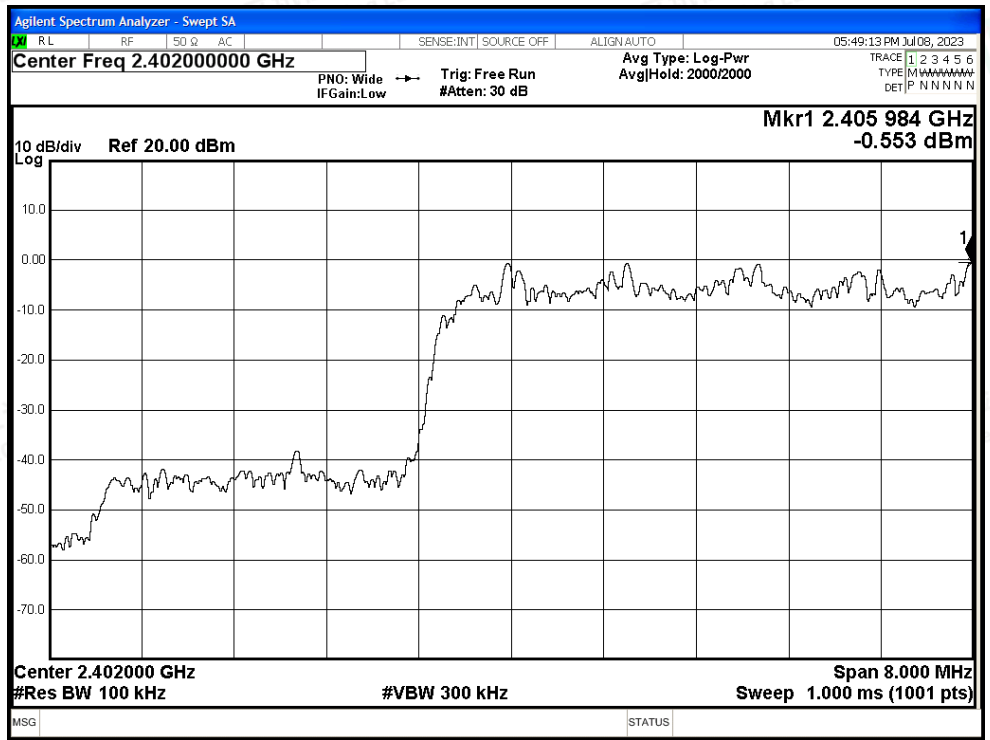


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

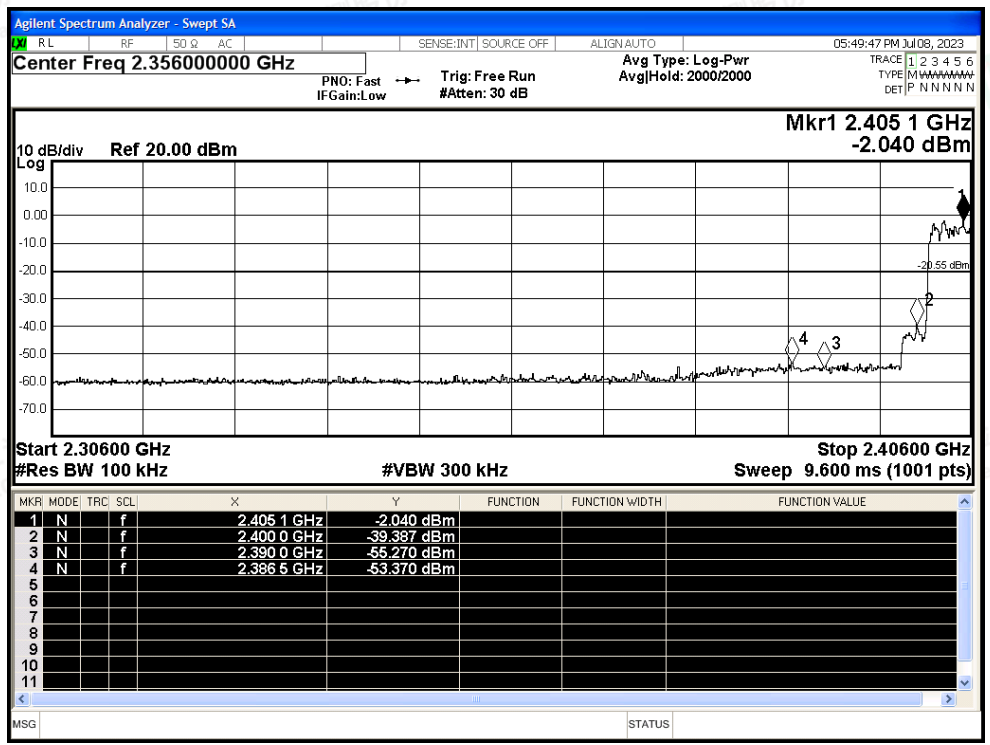




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

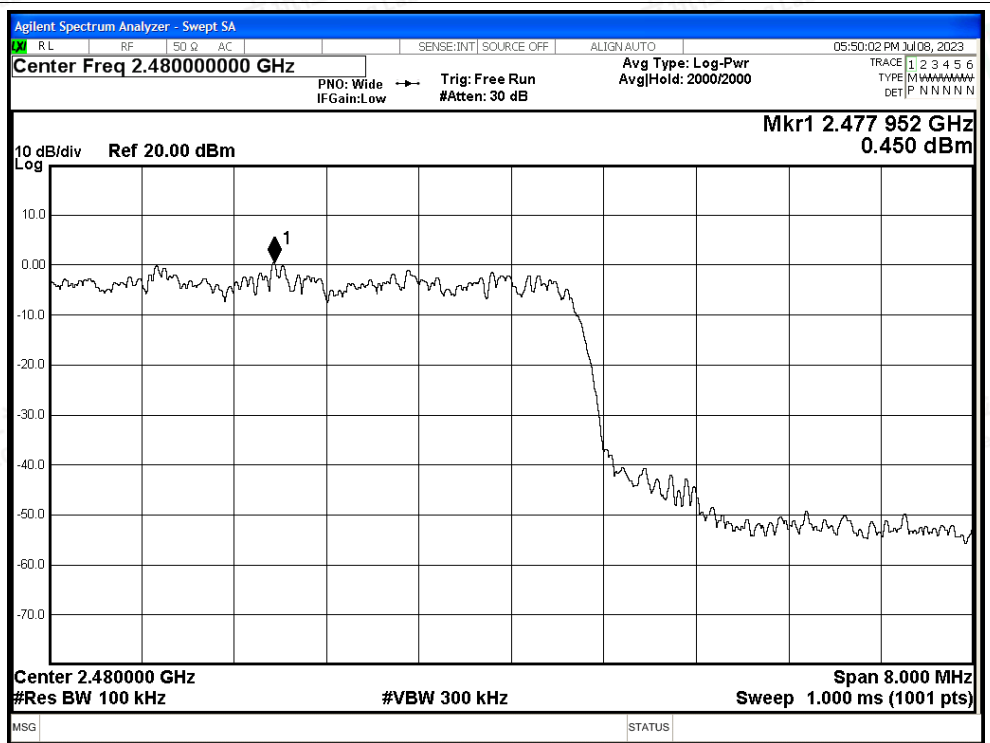


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

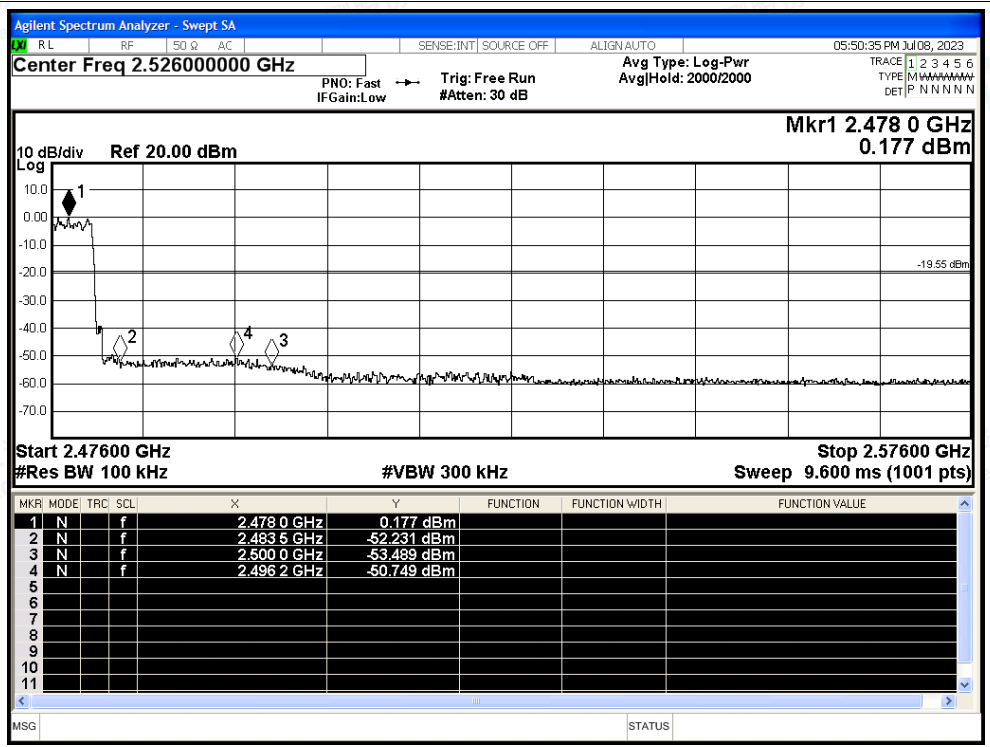




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

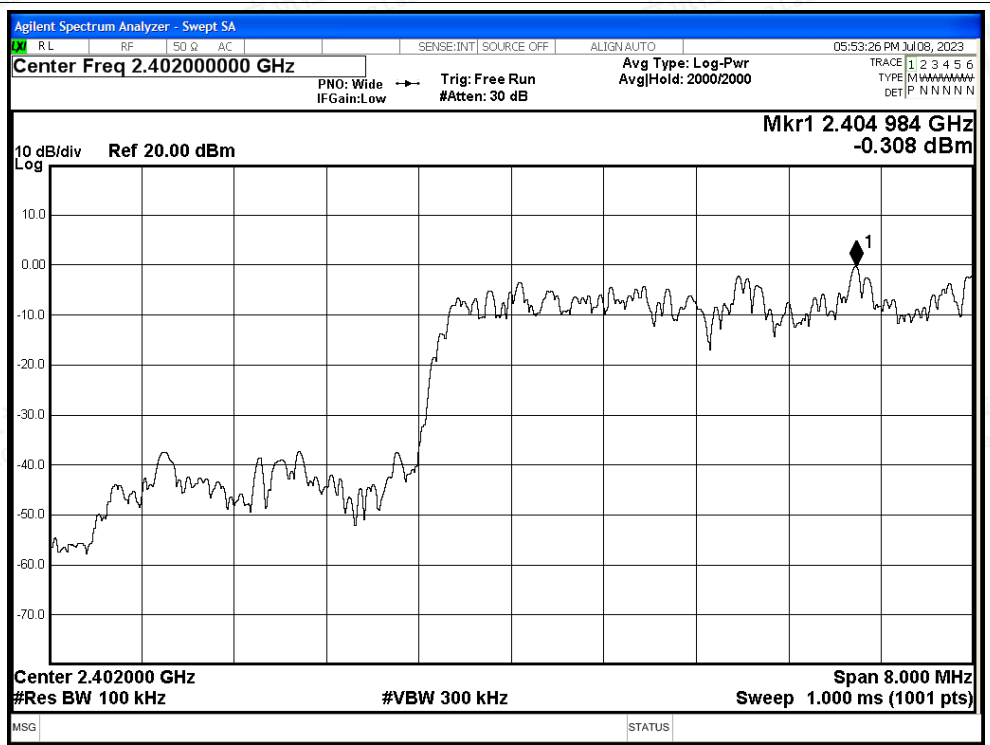


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

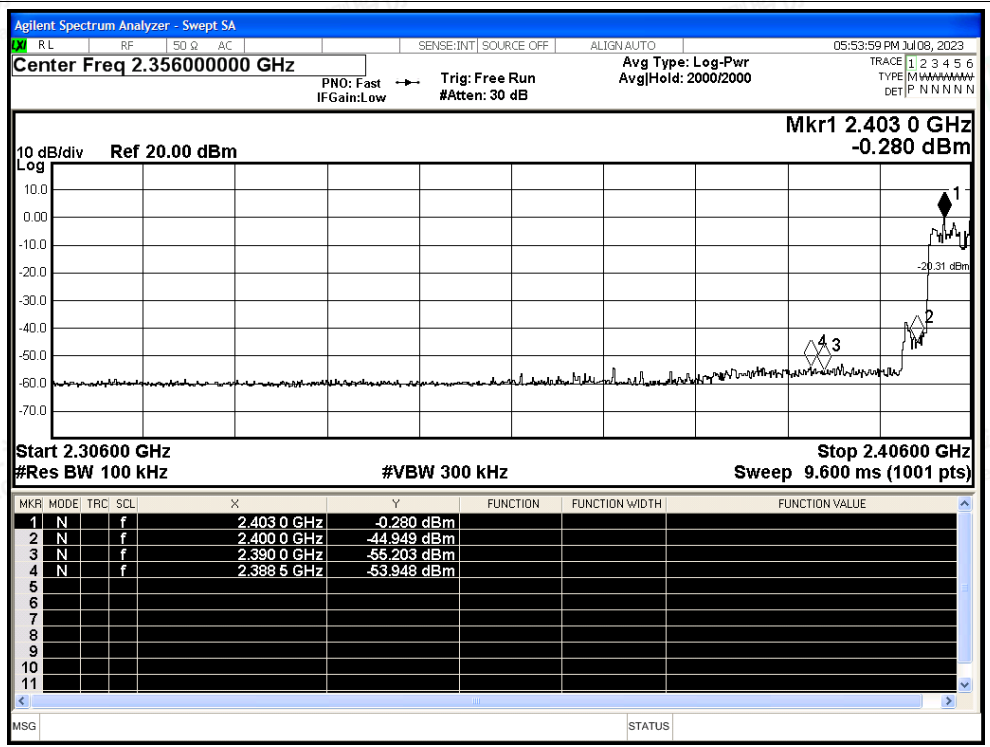




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

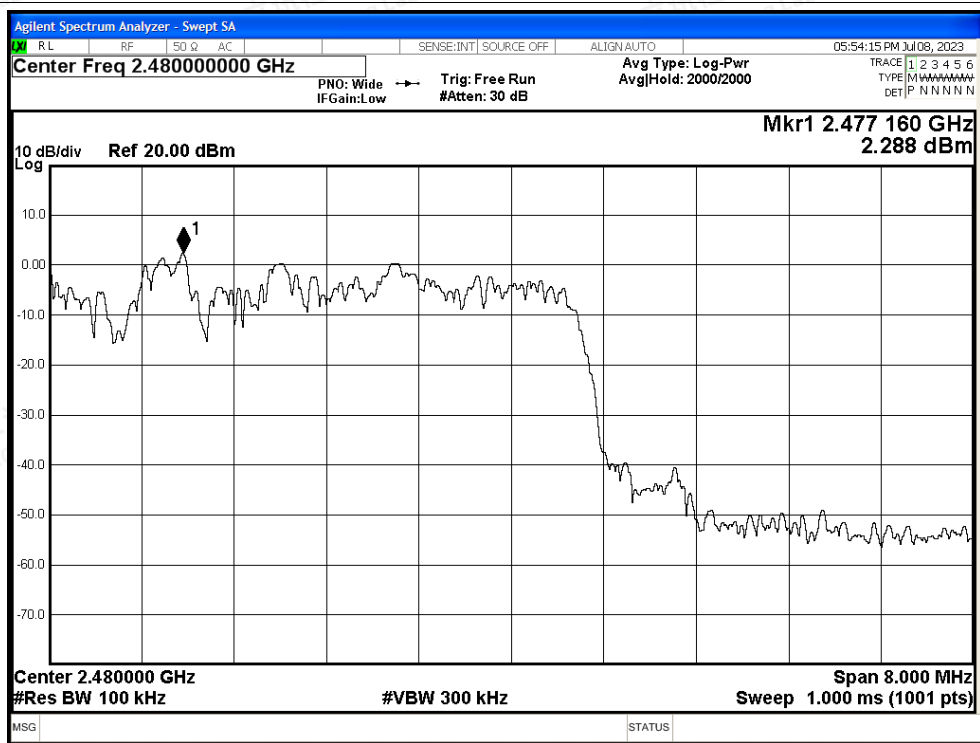


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

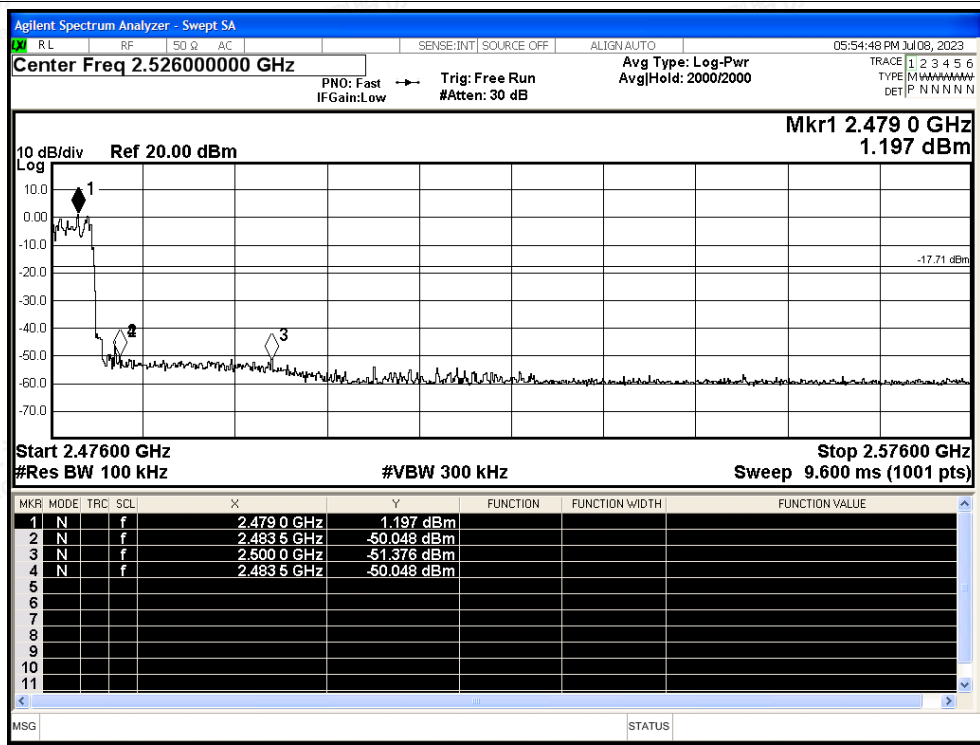




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-42.59	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.59	-20	Pass
NVNT	1-DH5	2480	Ant1	-42.99	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.62	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.6	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.06	-20	Pass
NVNT	3-DH5	2402	Ant1	-43.09	-20	Pass
NVNT	3-DH5	2441	Ant1	-43.84	-20	Pass
NVNT	3-DH5	2480	Ant1	-43.3	-20	Pass

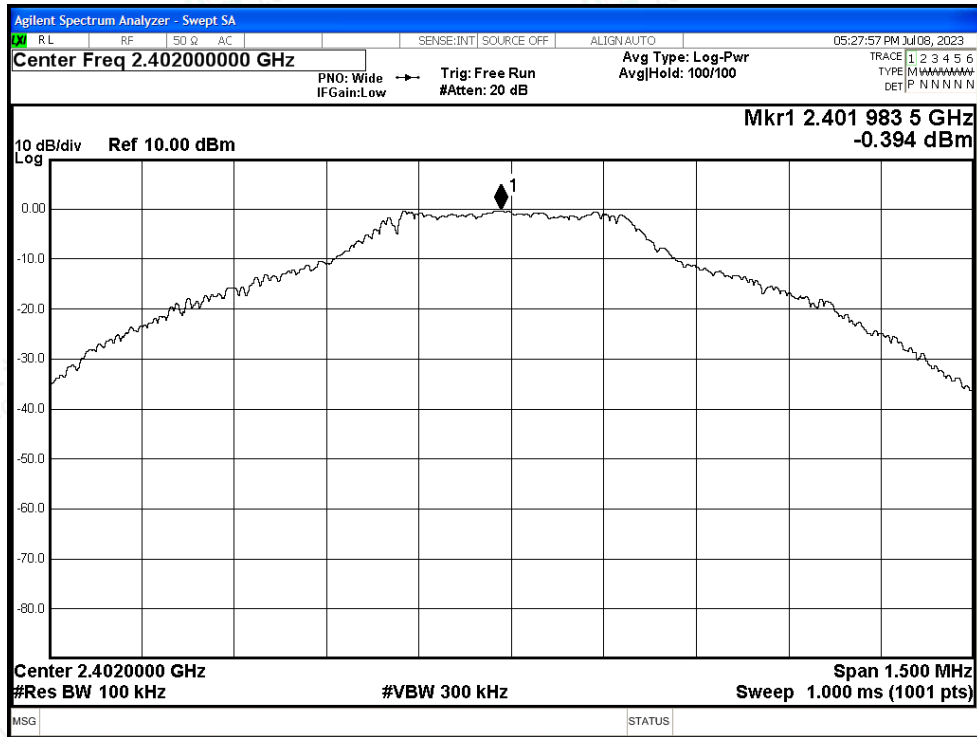


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Scan code to check authenticity

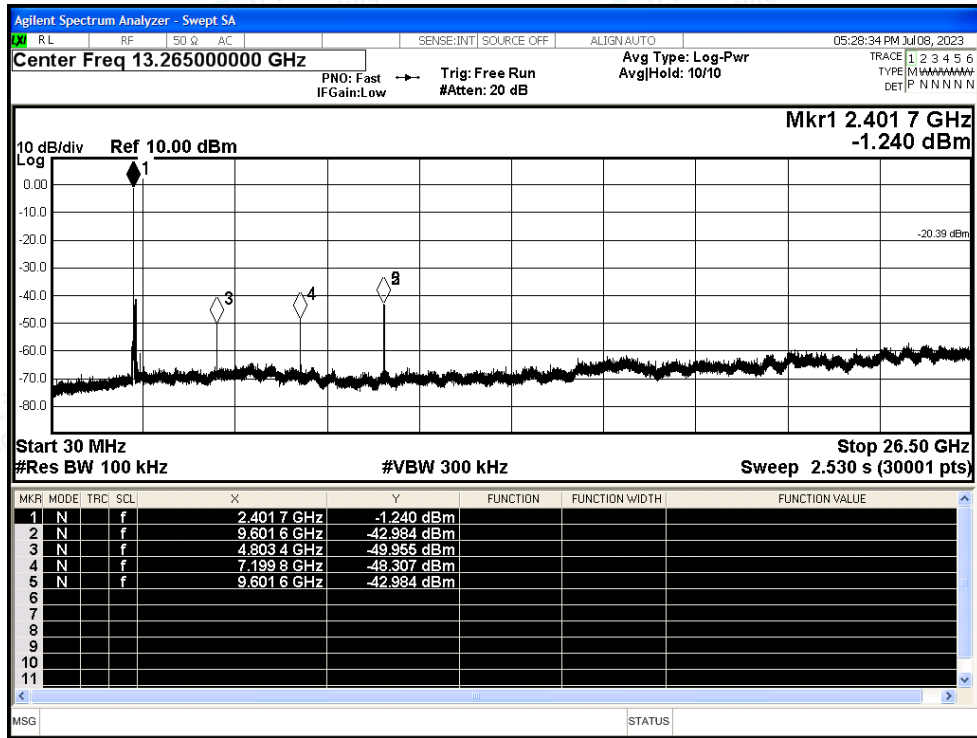


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

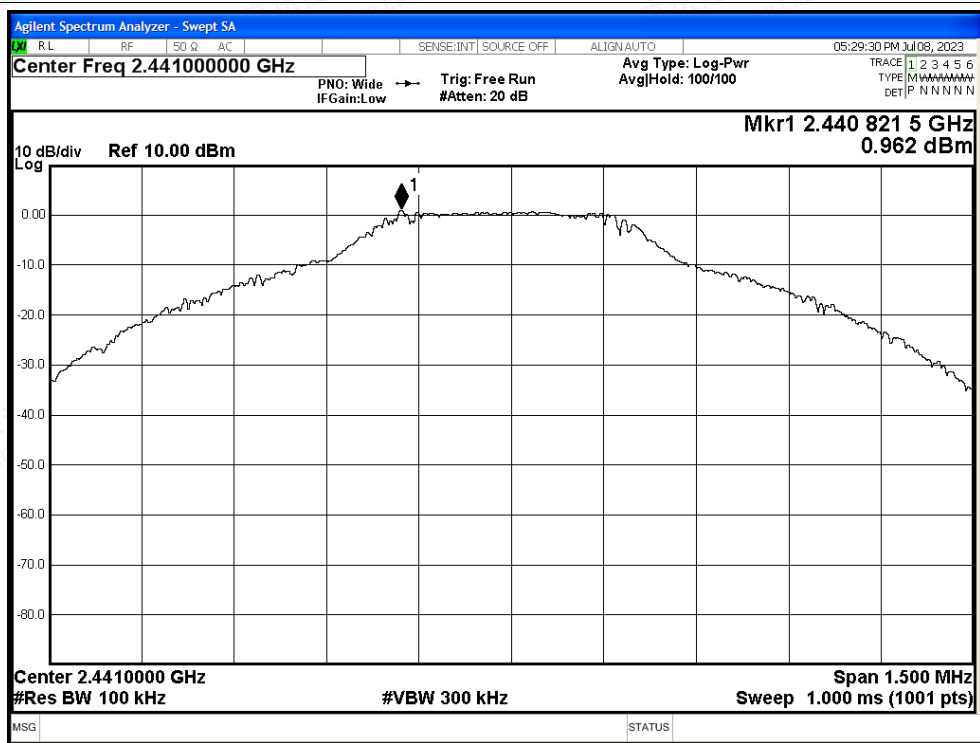


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

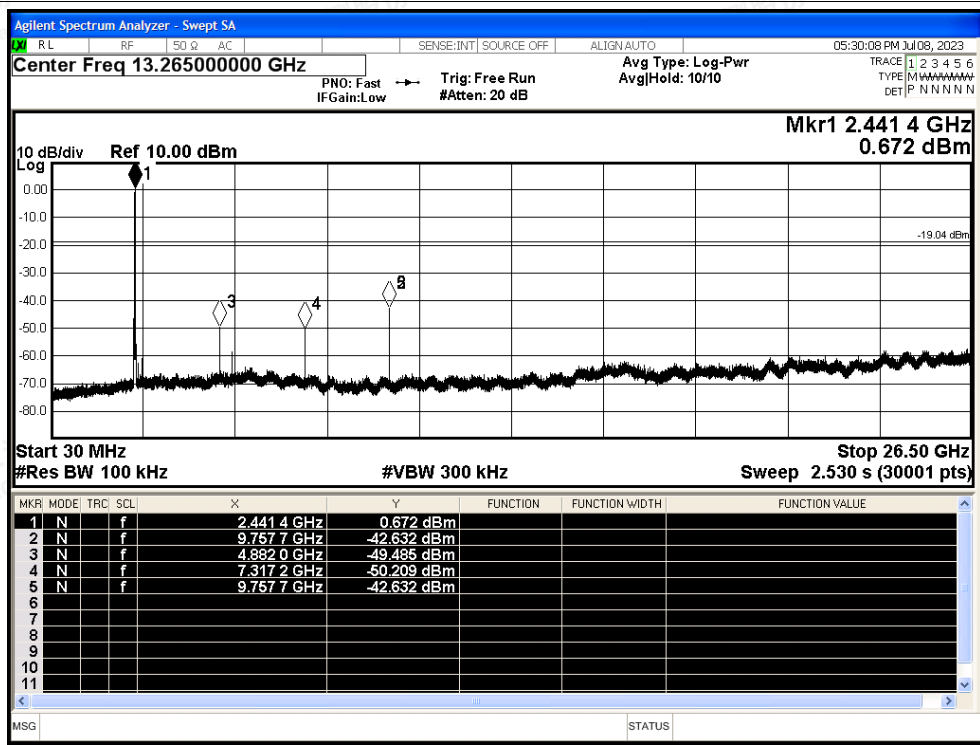




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



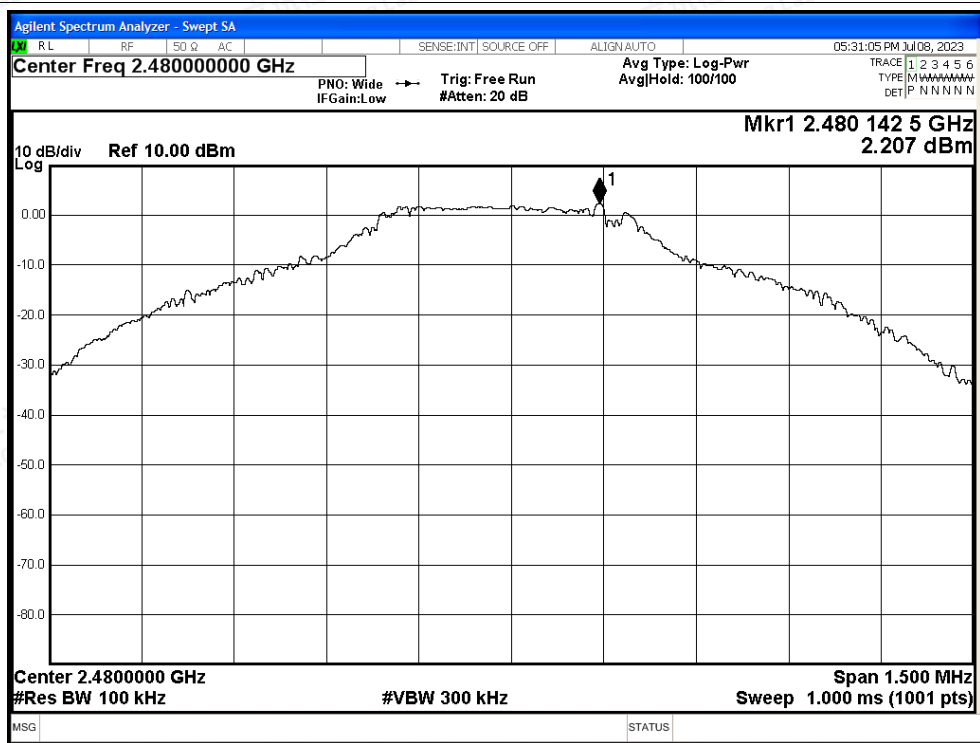
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



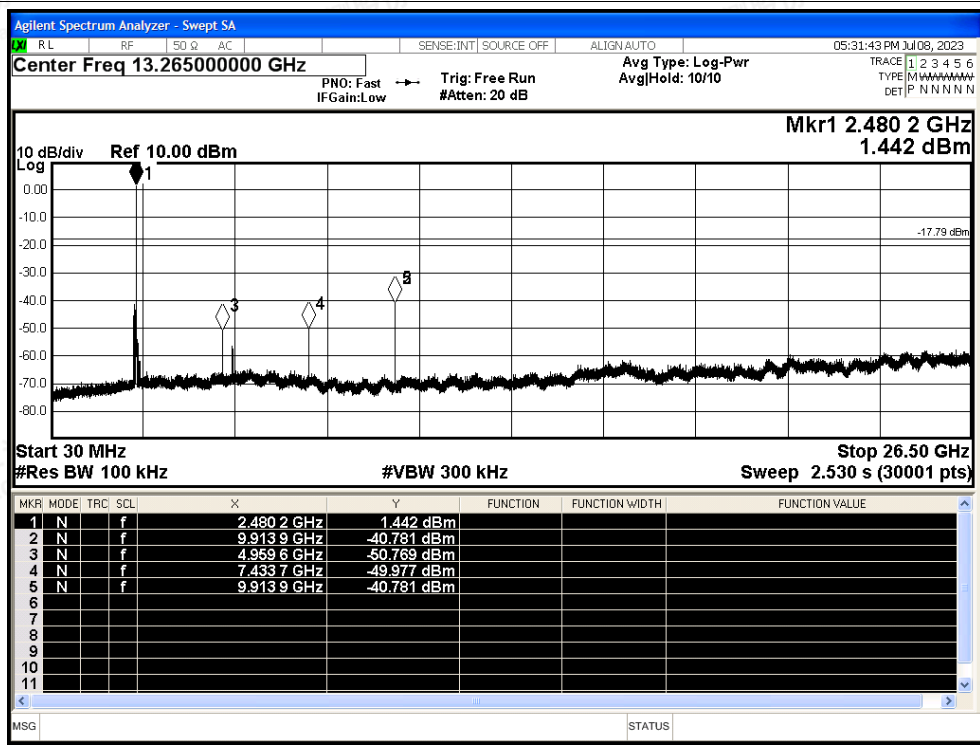




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

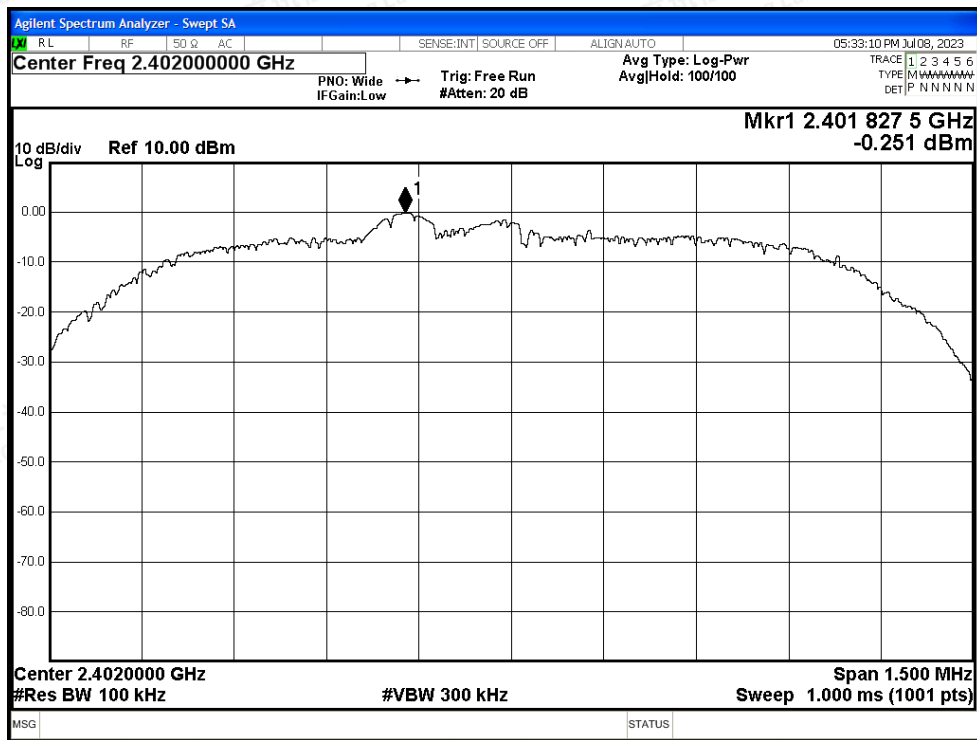


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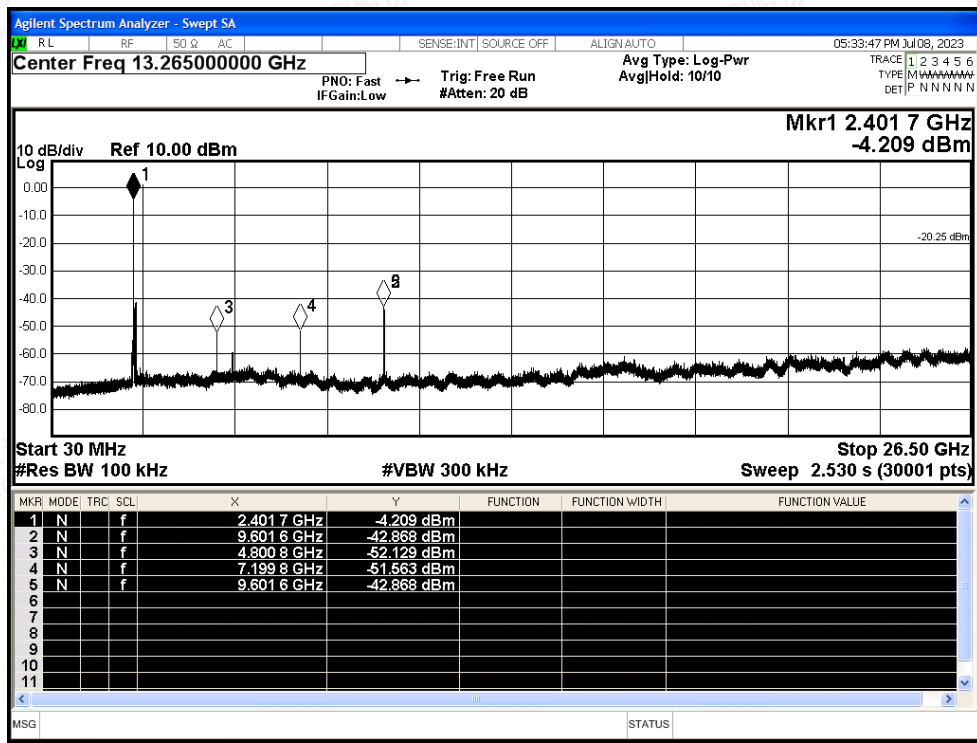




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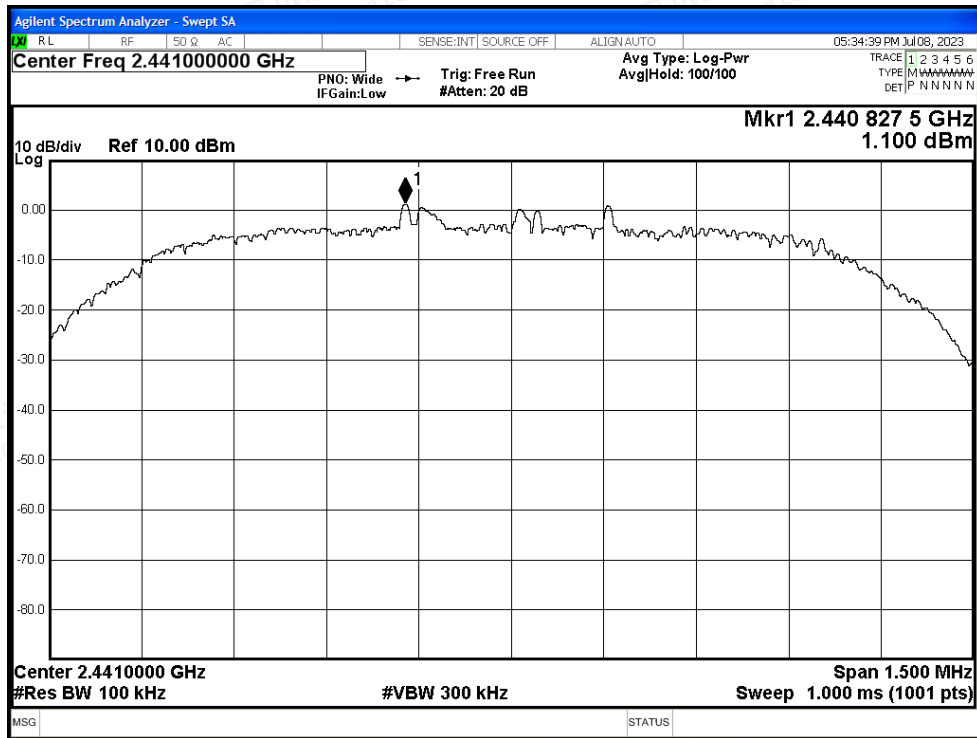


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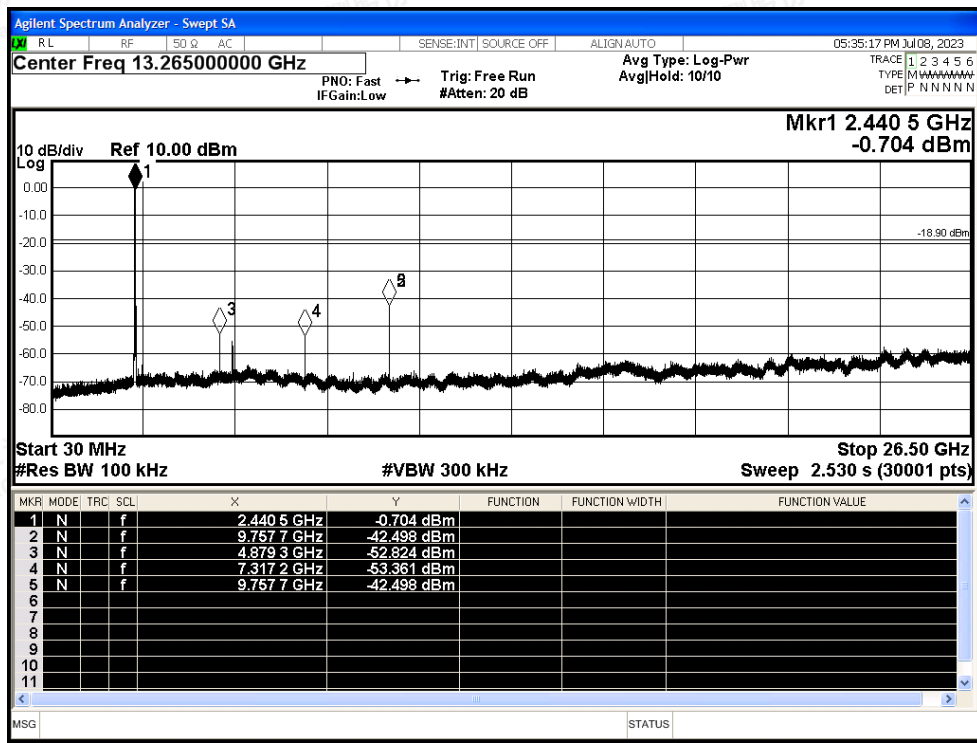




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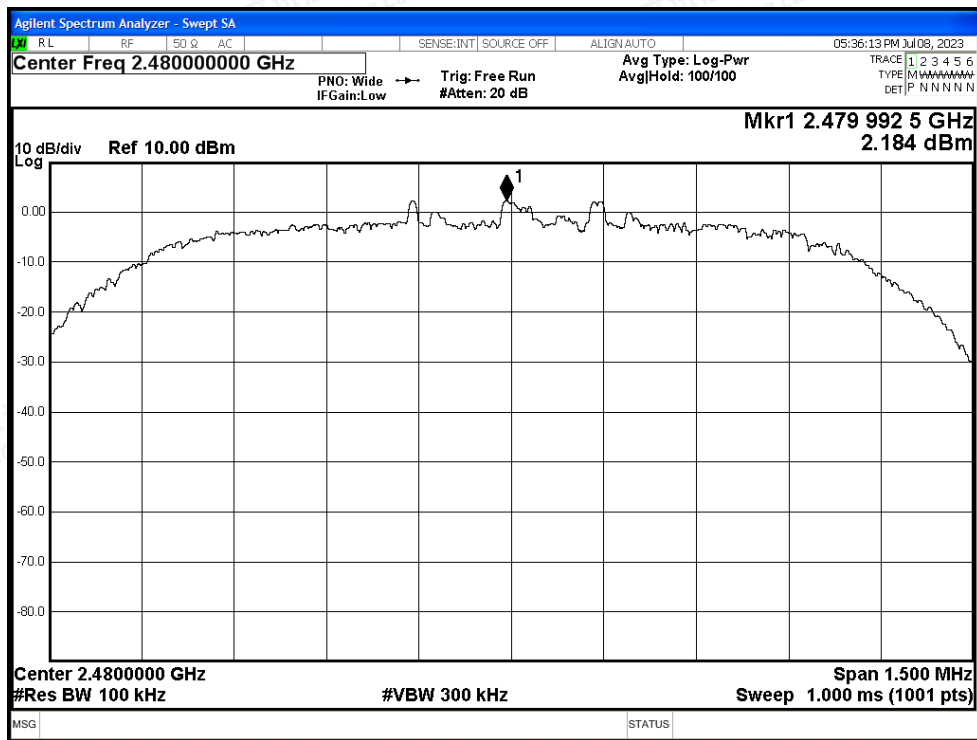


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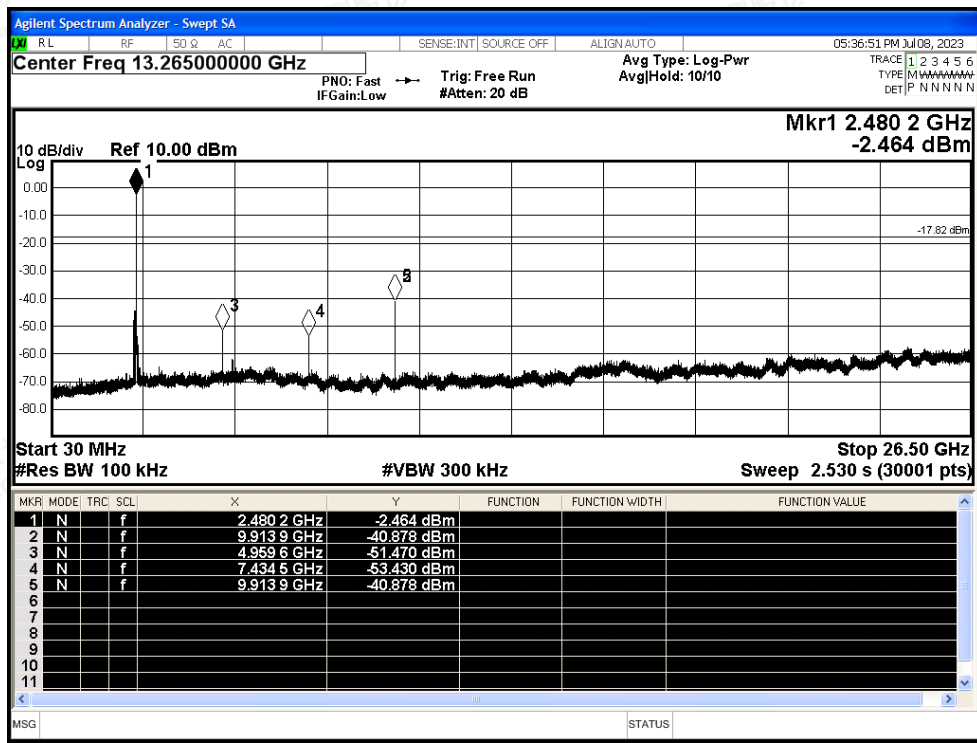




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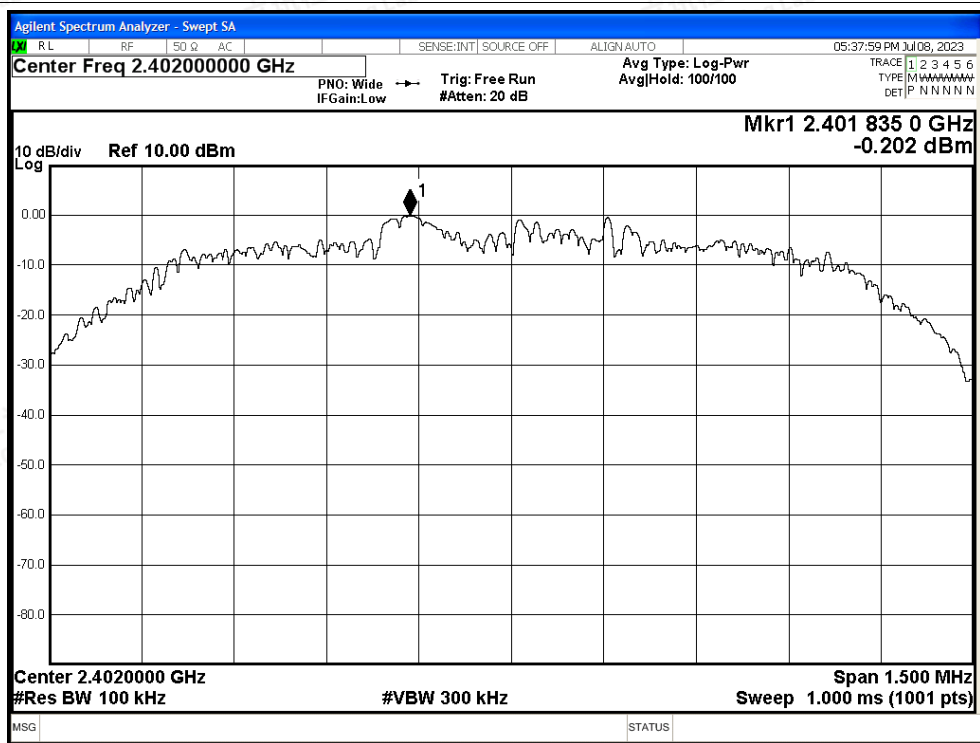


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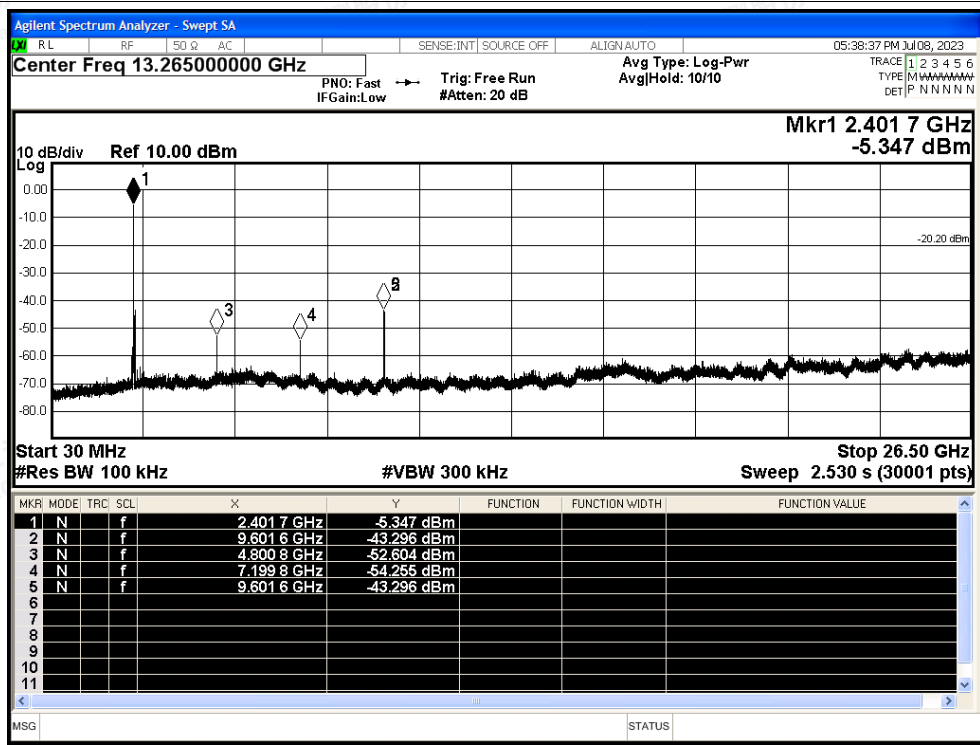




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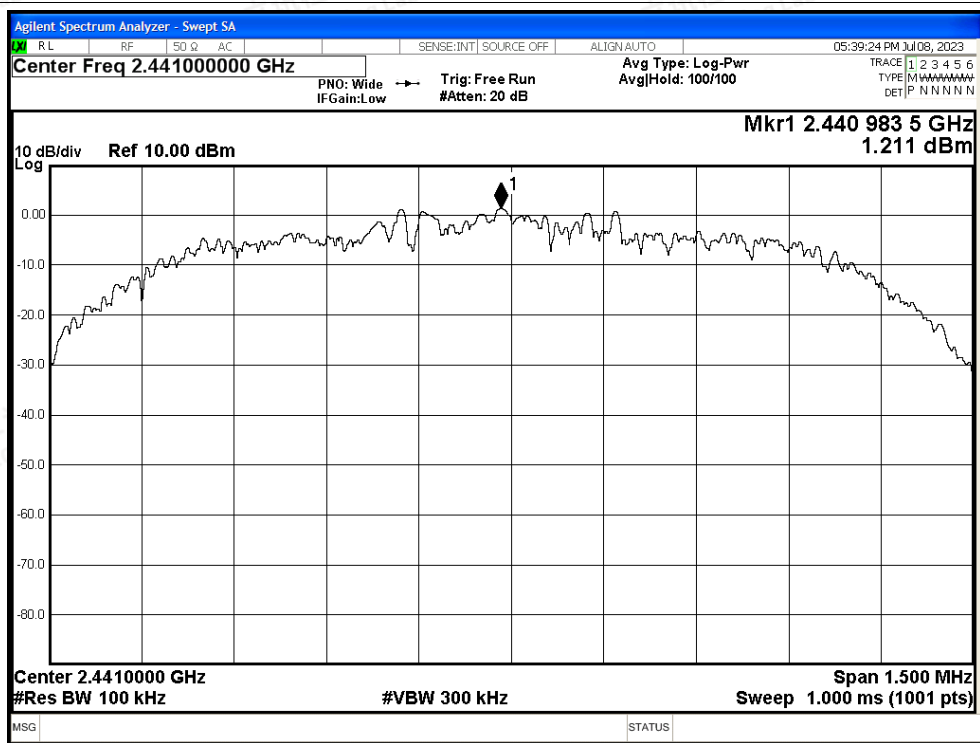


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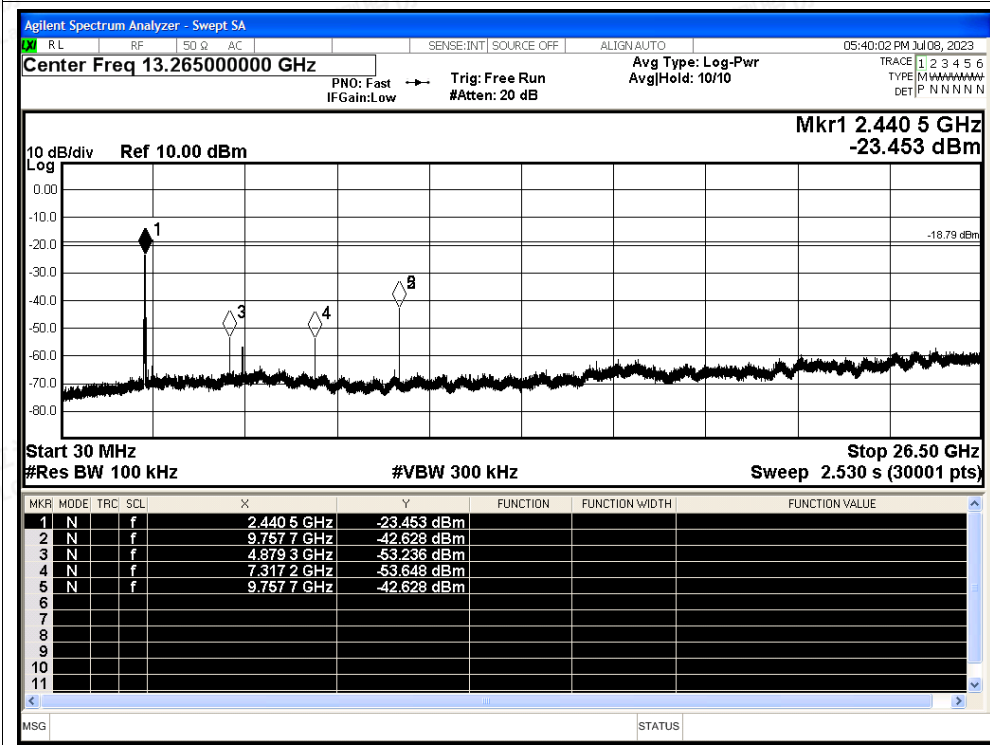




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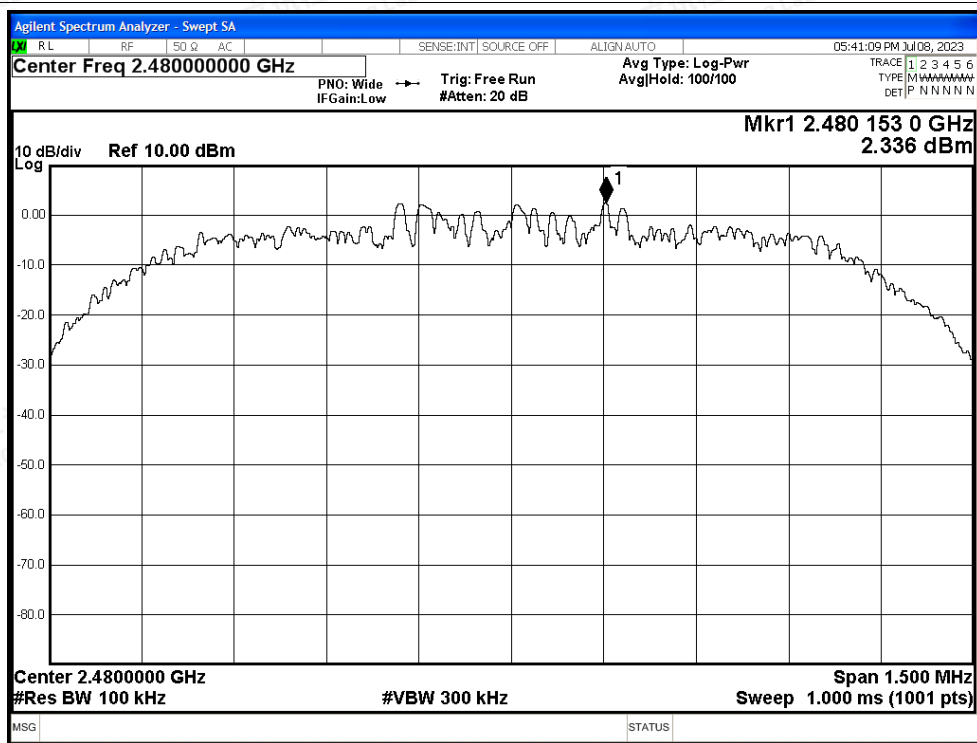


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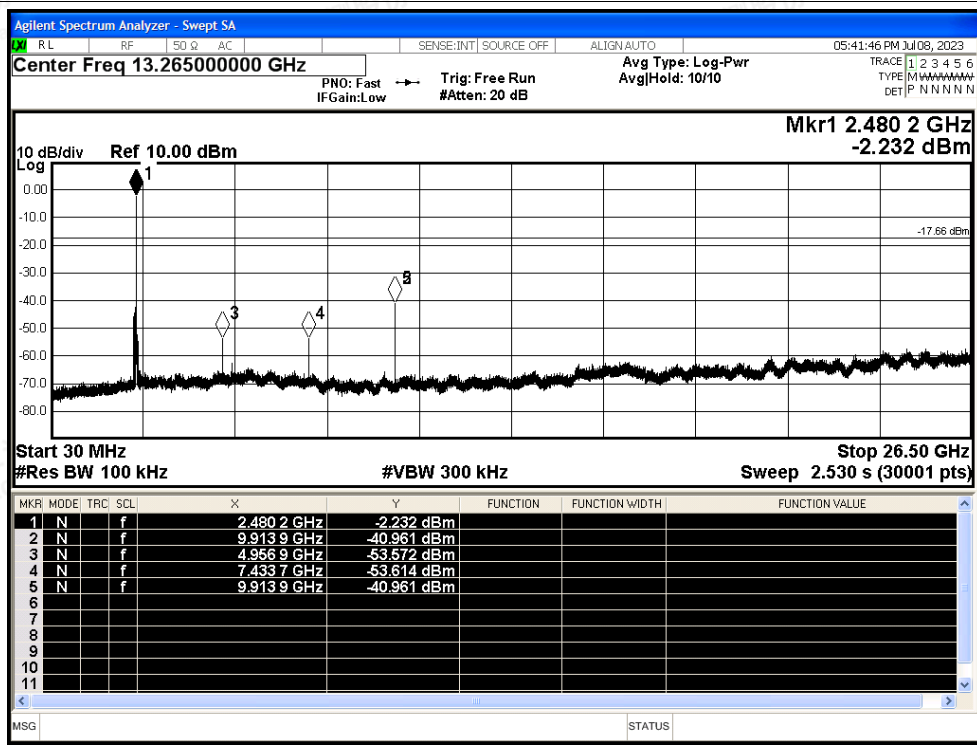




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-52.72	2	44.54	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.03	2	35.23	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.064	-44.48	2	52.78	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.984	-55.9	2	41.36	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-47.65	2	49.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.69	2	39.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-42.55	2	54.71	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.3	2	47.96	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.8	-40.43	2	56.83	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-49.3	2	47.96	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-42.45	2	54.81	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-53.42	2	43.84	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.3	2	45.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.19	2	35.07	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.072	-44.82	2	52.44	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.56	-55.96	2	41.3	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.83	2	47.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.83	2	39.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-42.28	2	54.98	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.99	2	45.27	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.784	-41.49	2	55.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-51.99	2	45.27	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-44.73	2	52.53	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.33	2	43.93	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.42	2	44.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.15	2	35.11	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.792	-44.26	2	53	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2381.328	-56.89	2	40.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.03	2	50.23	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.52	2	38.74	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-43.13	2	54.13	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-54.29	2	42.97	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.776	-39.85	2	57.41	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.584	-53.93	2	43.33	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-43.16	2	54.1	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-54.28	2	42.98	Average	54	Pass



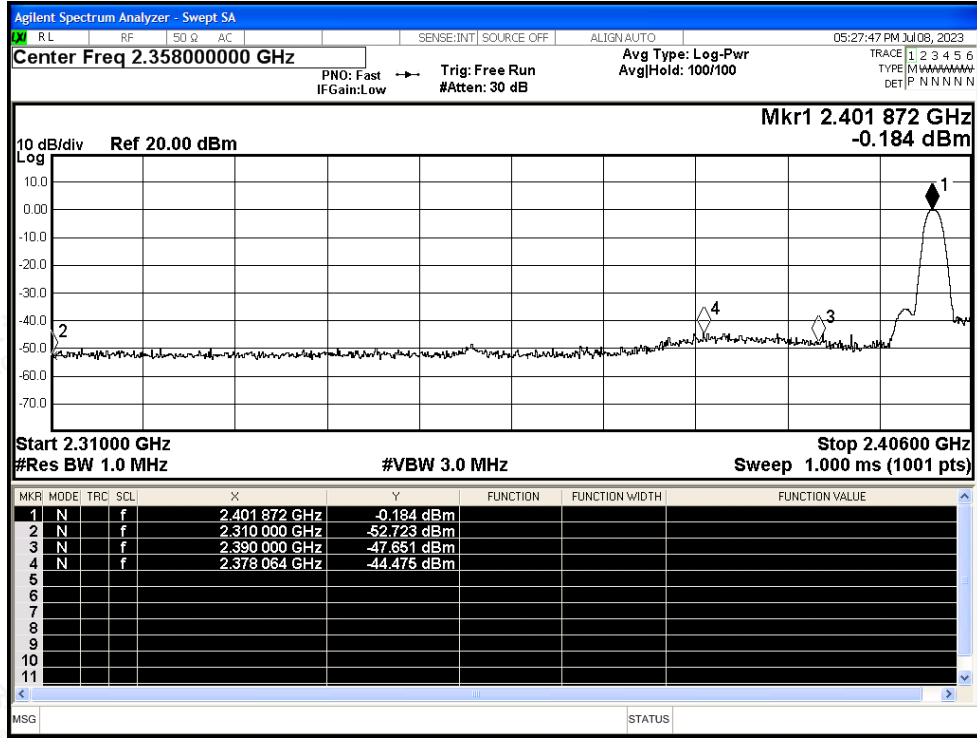
Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity



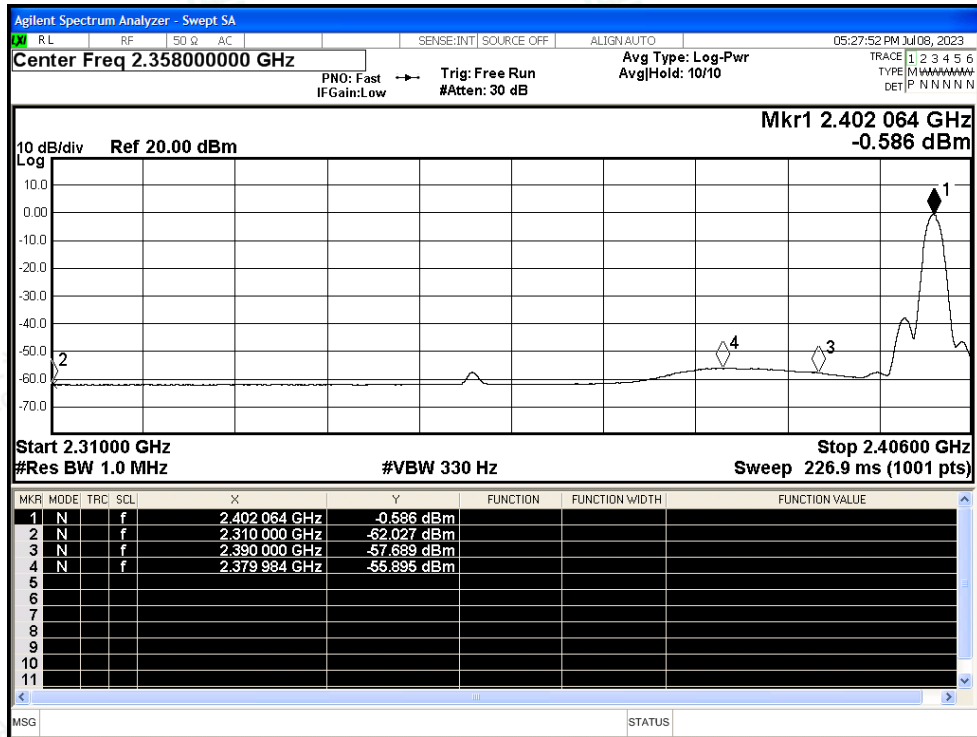


Test Graphs

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

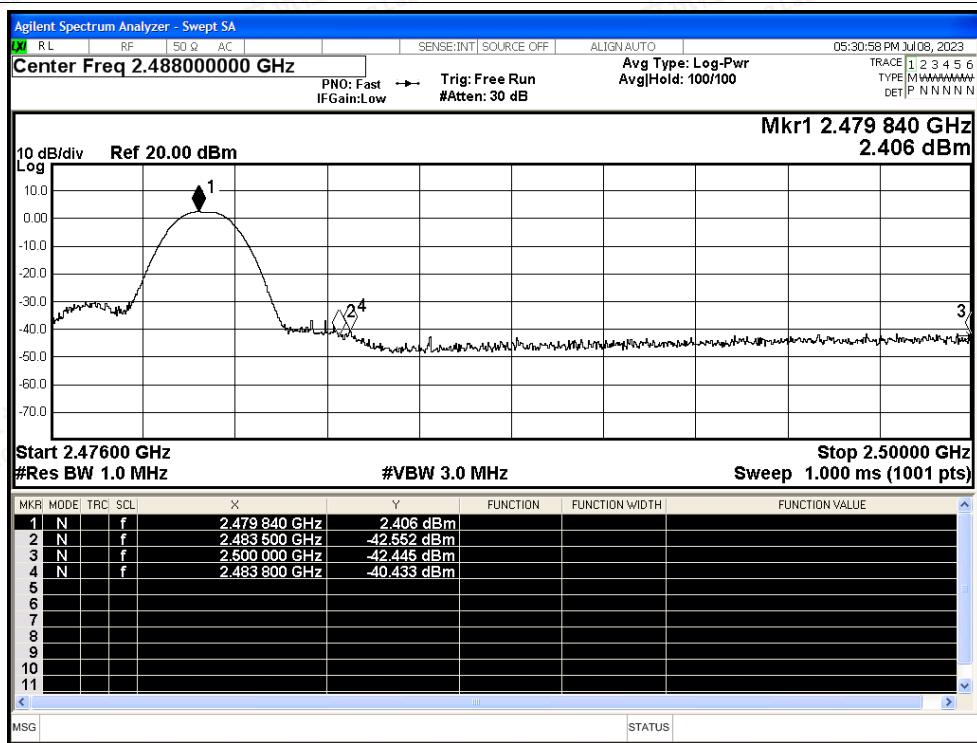


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

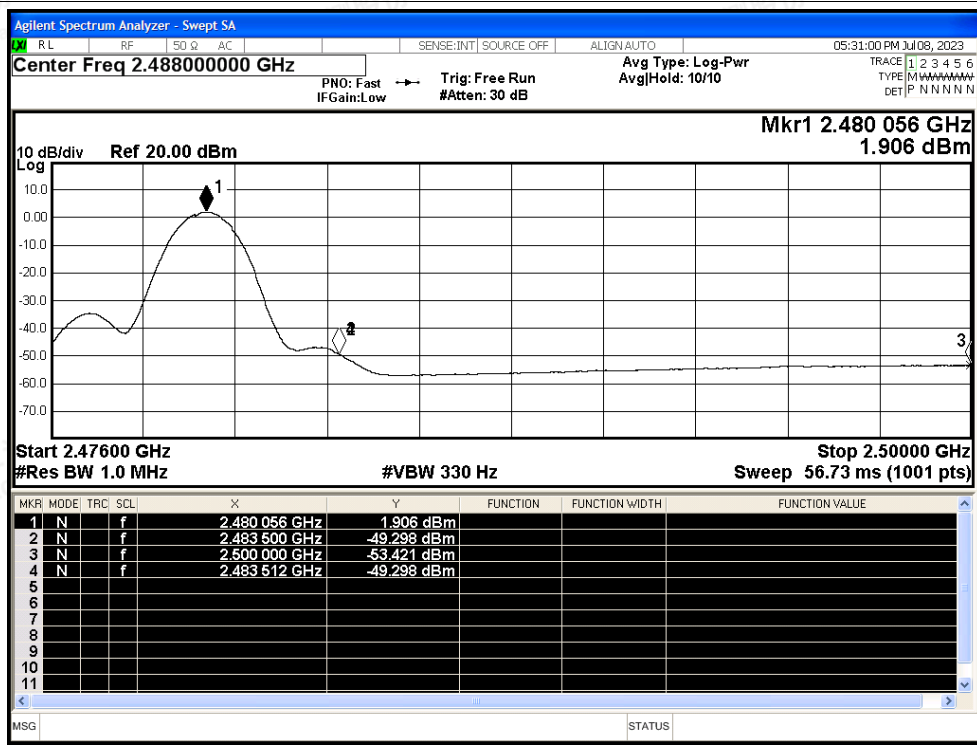




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

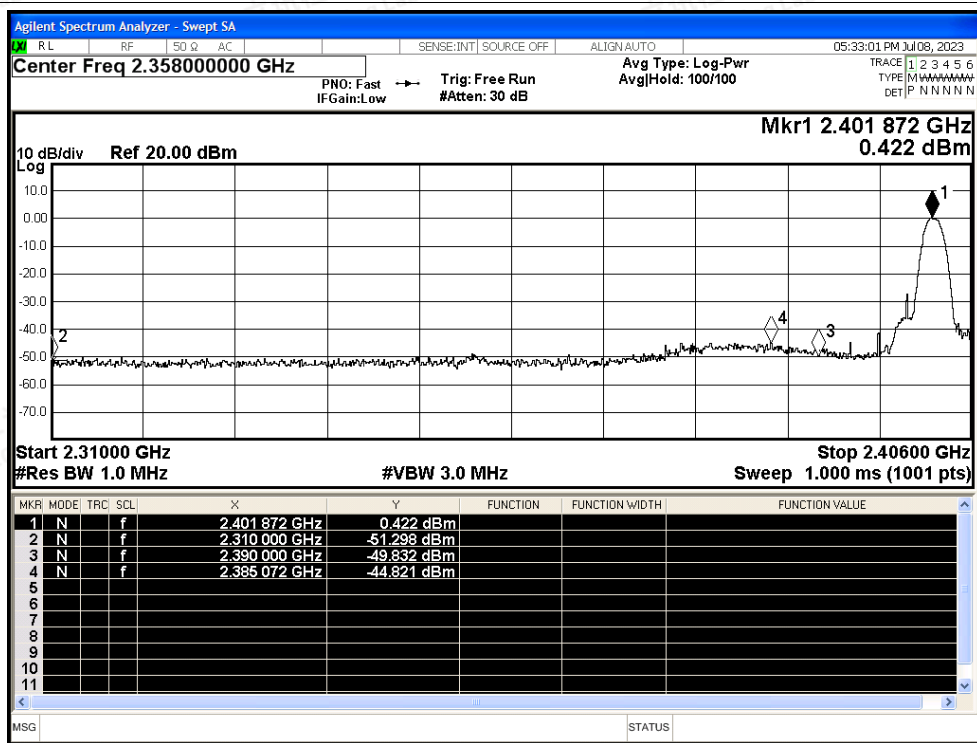


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

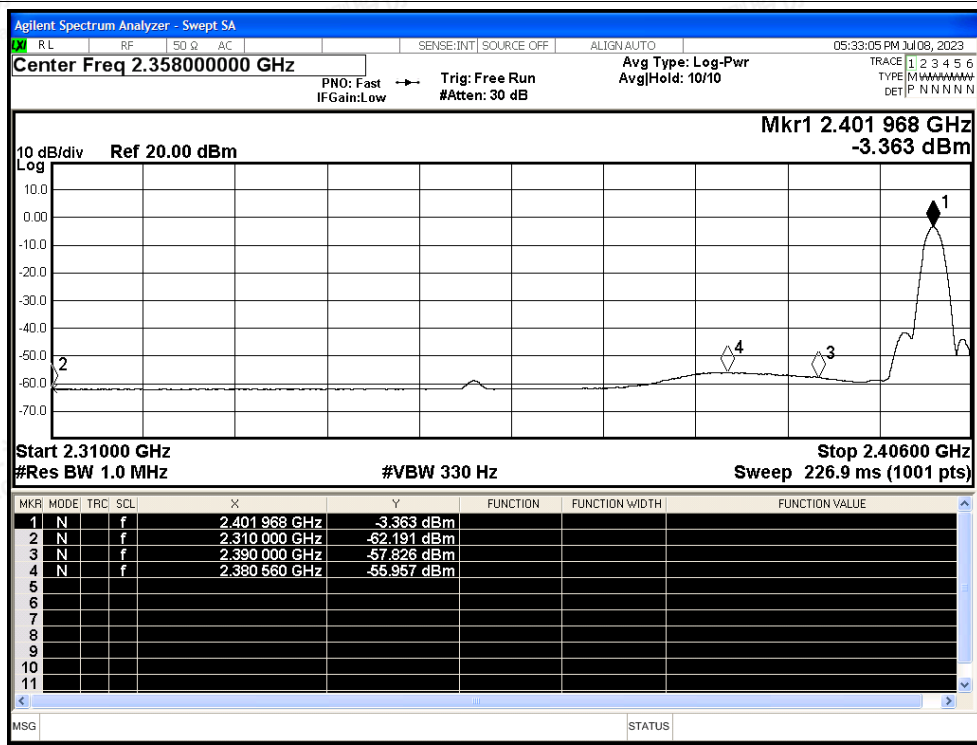




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

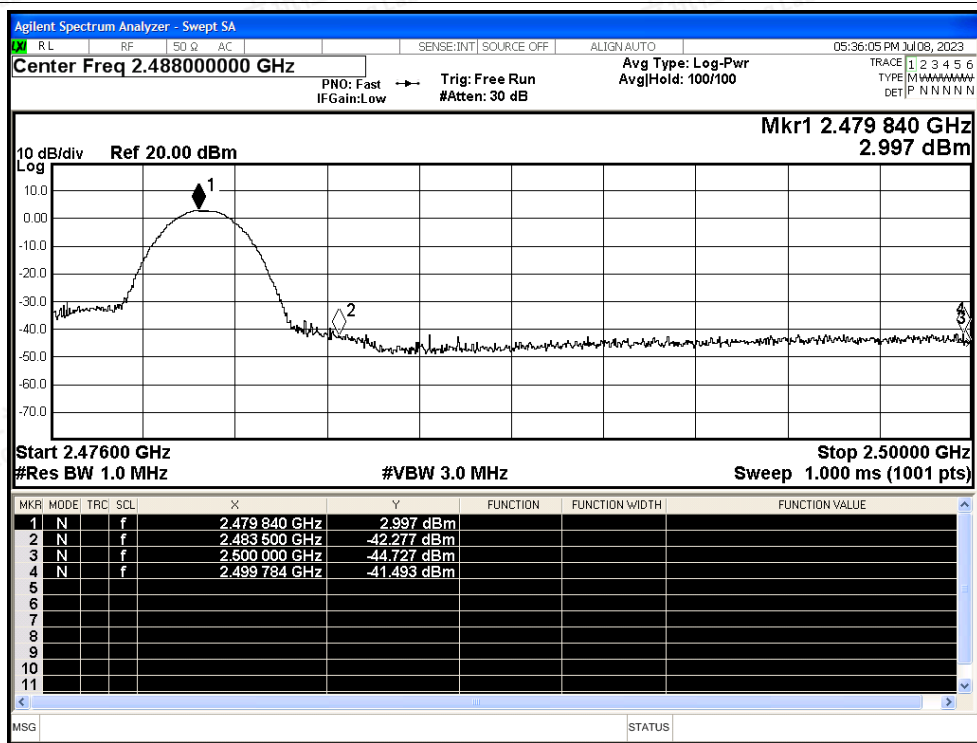


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

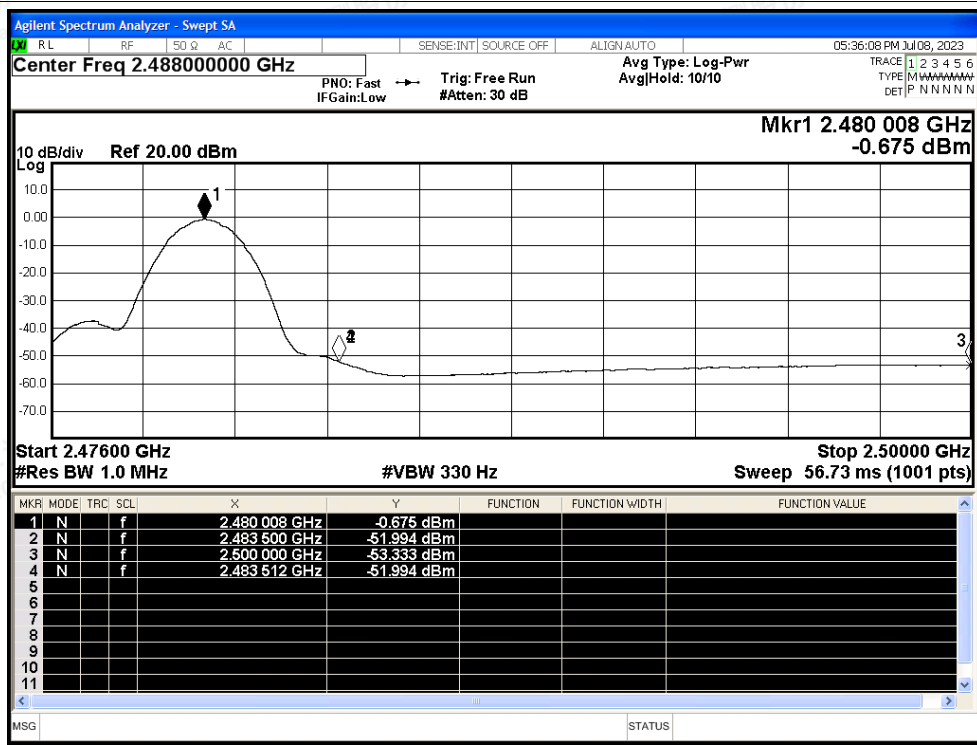




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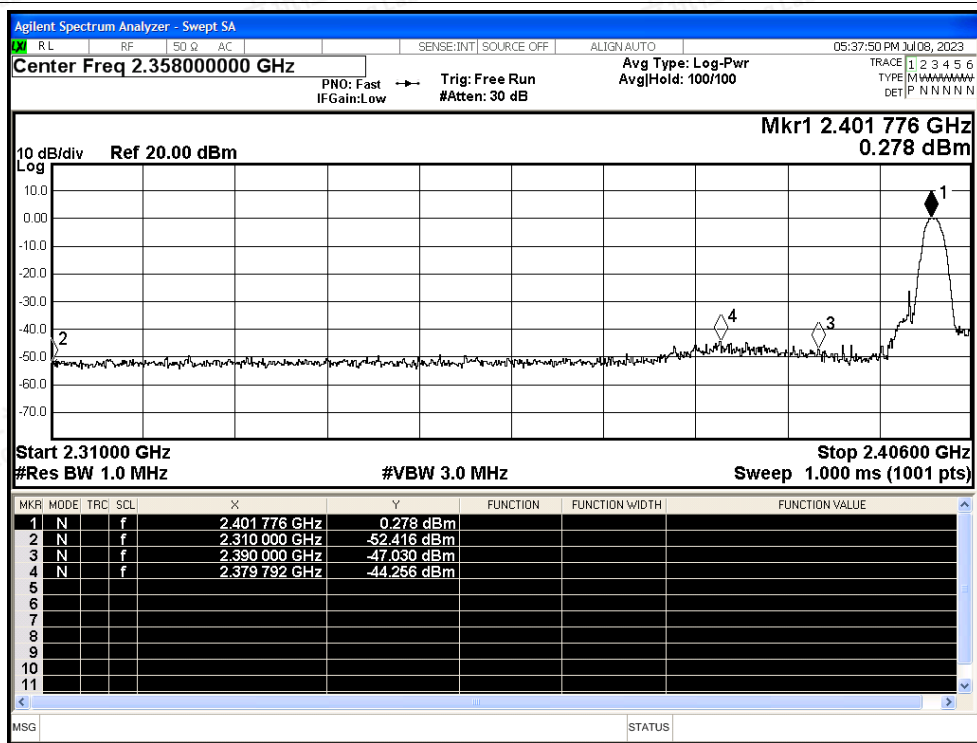


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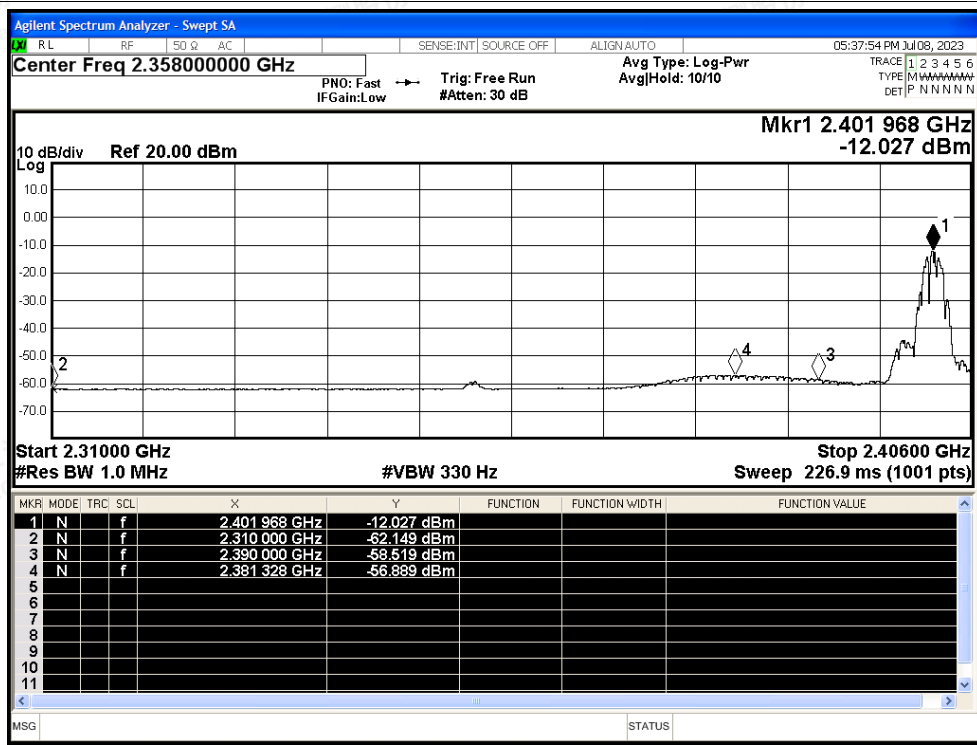




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

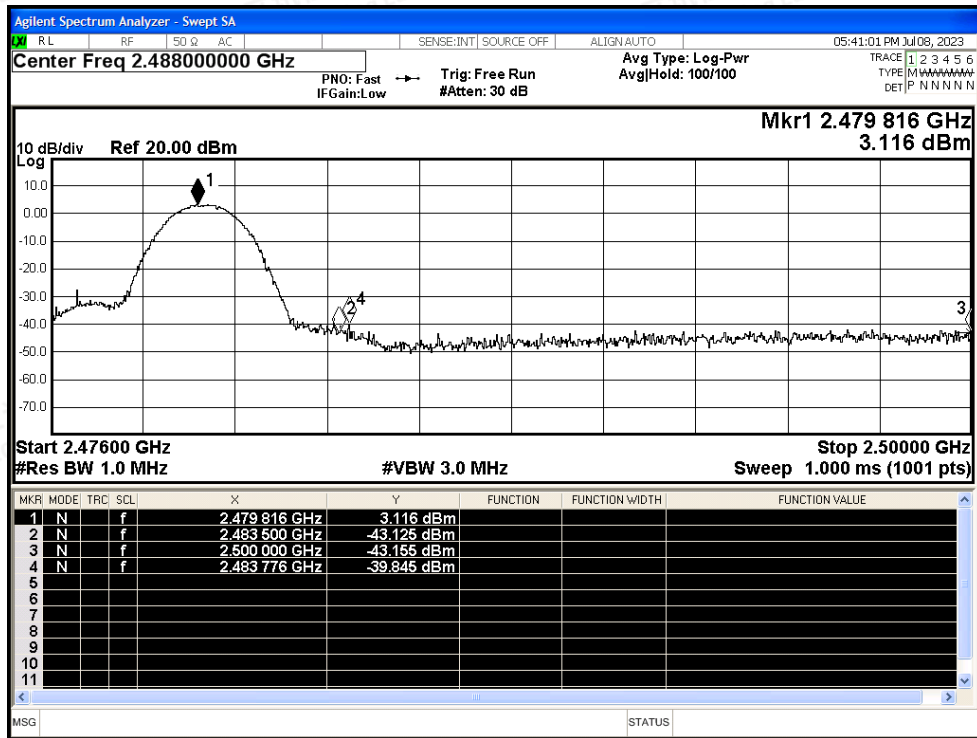


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

