



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TWS Bluetooth Headset

Test Model: T42S Pro

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

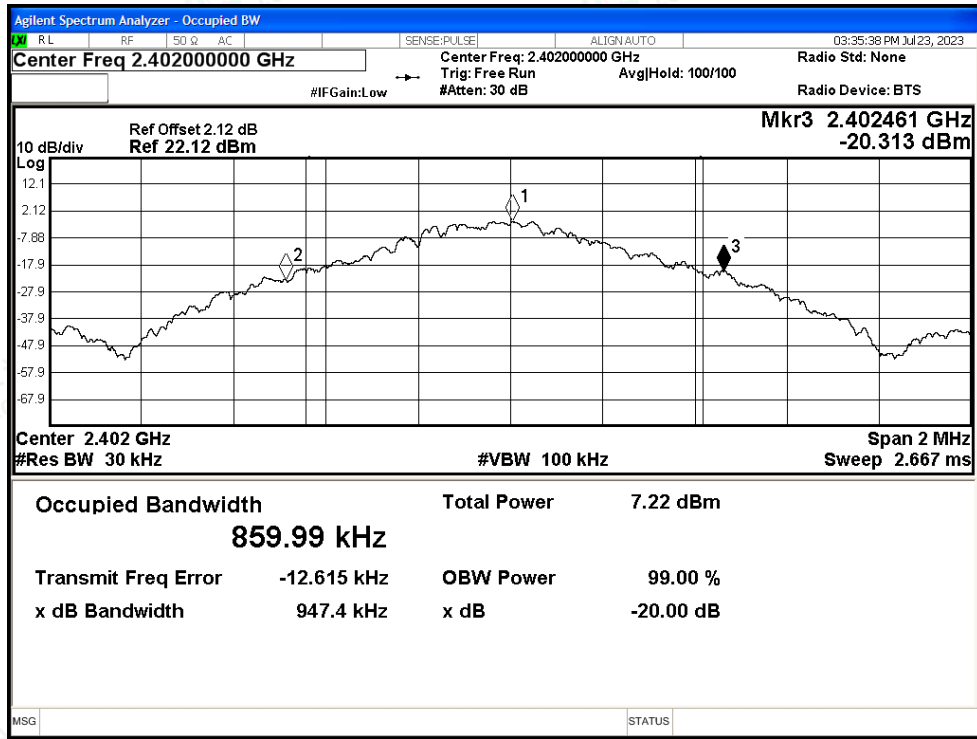
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.947	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.946	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.946	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.301	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.274	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.277	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.262	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.274	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.242	N/A	Pass



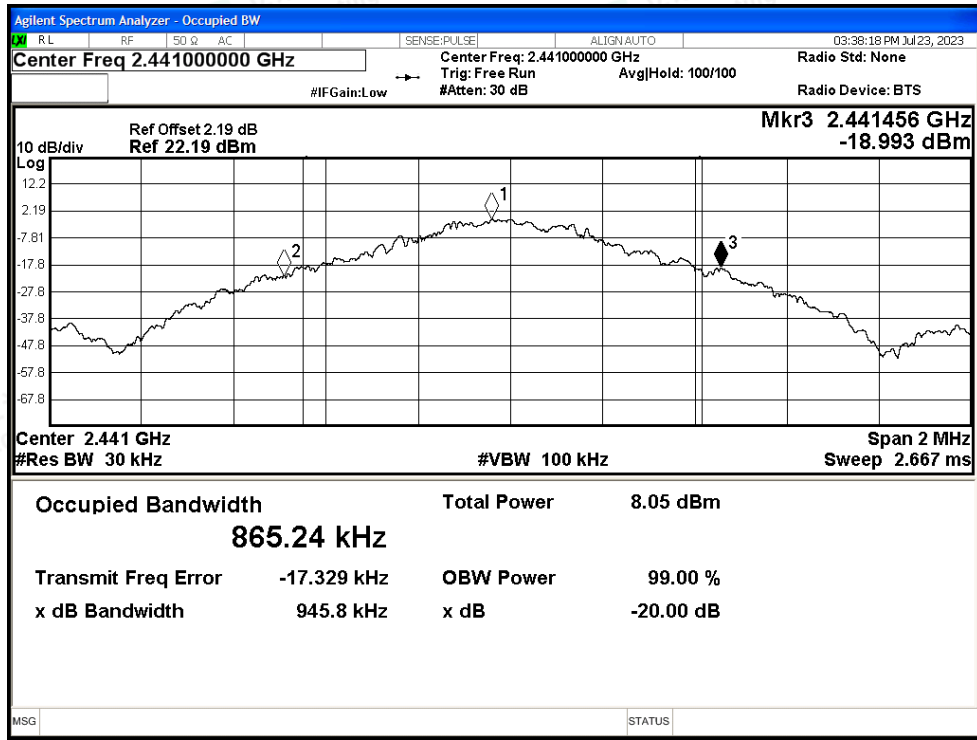


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

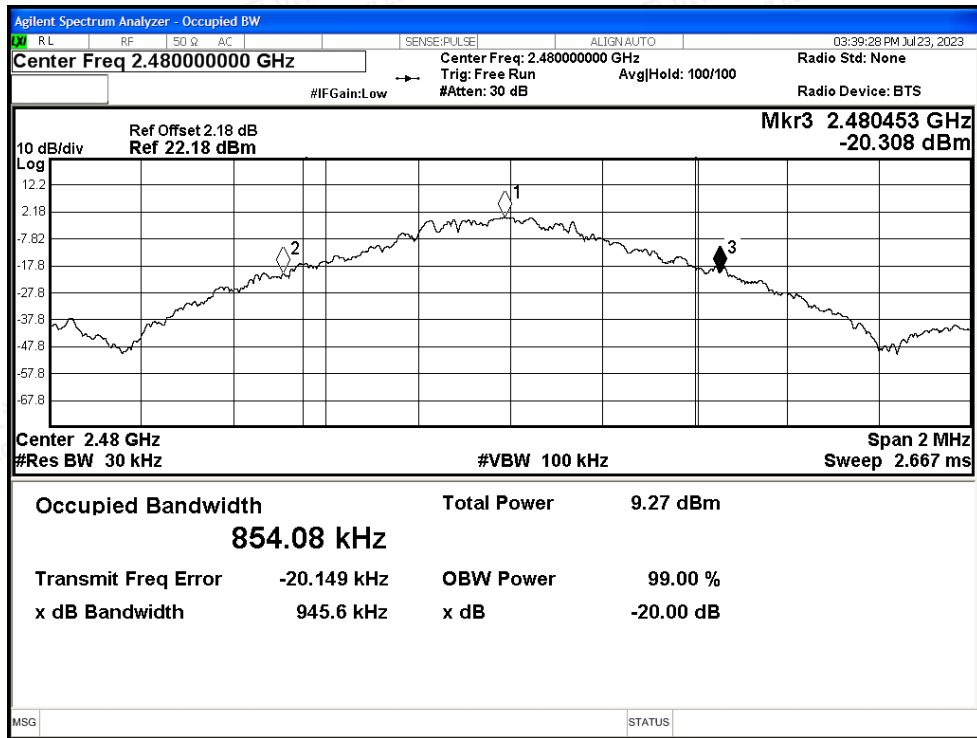


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

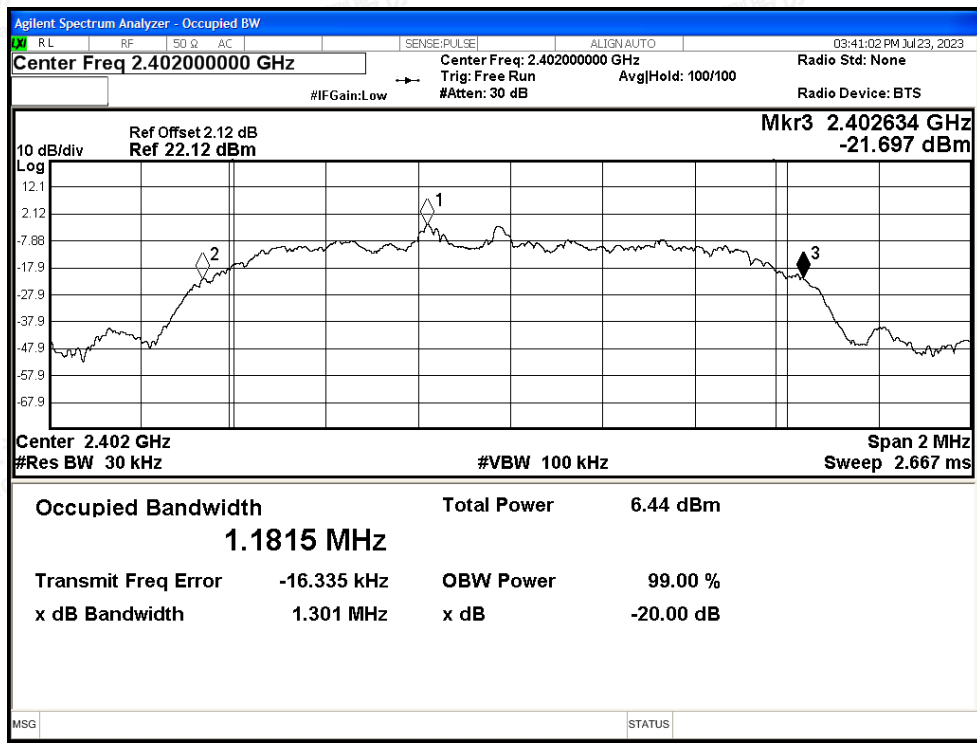




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

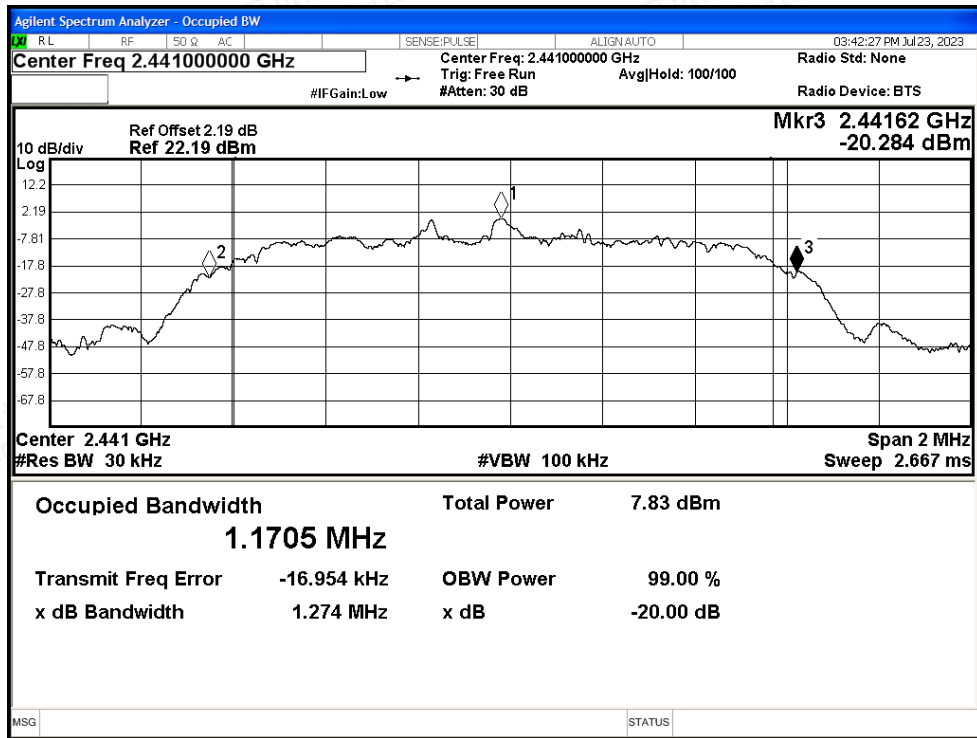


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

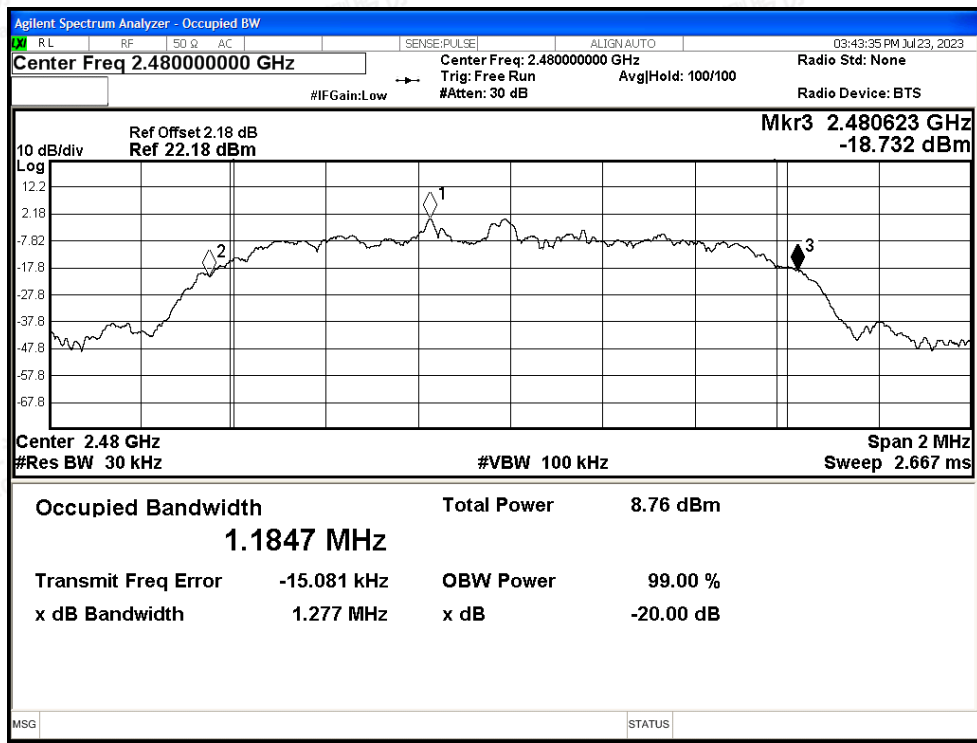




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

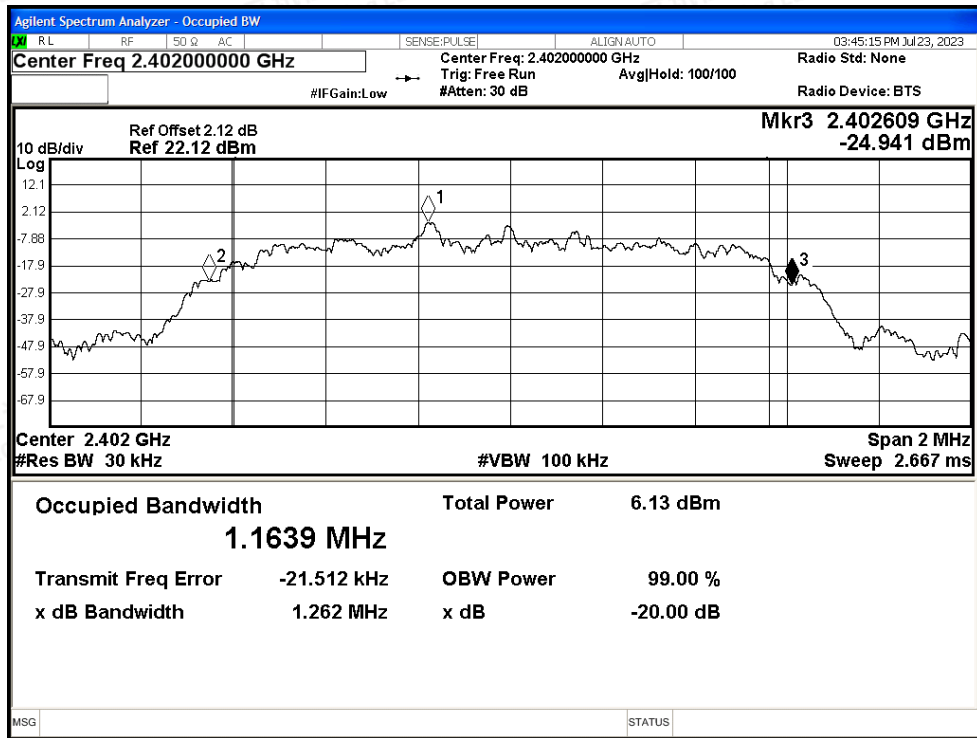


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

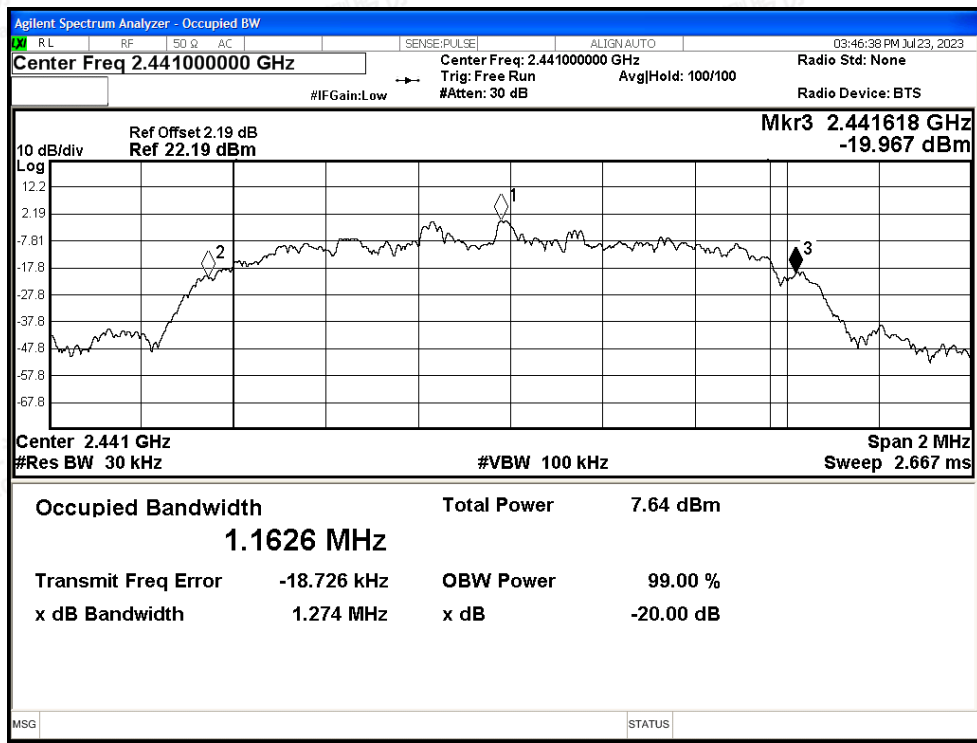




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

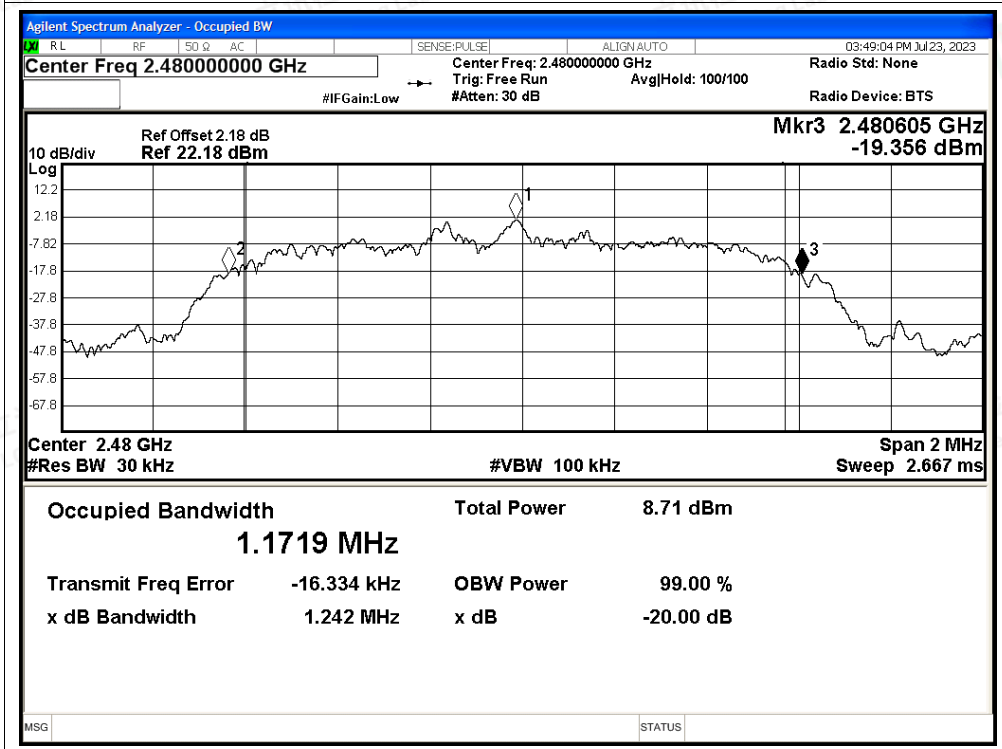


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

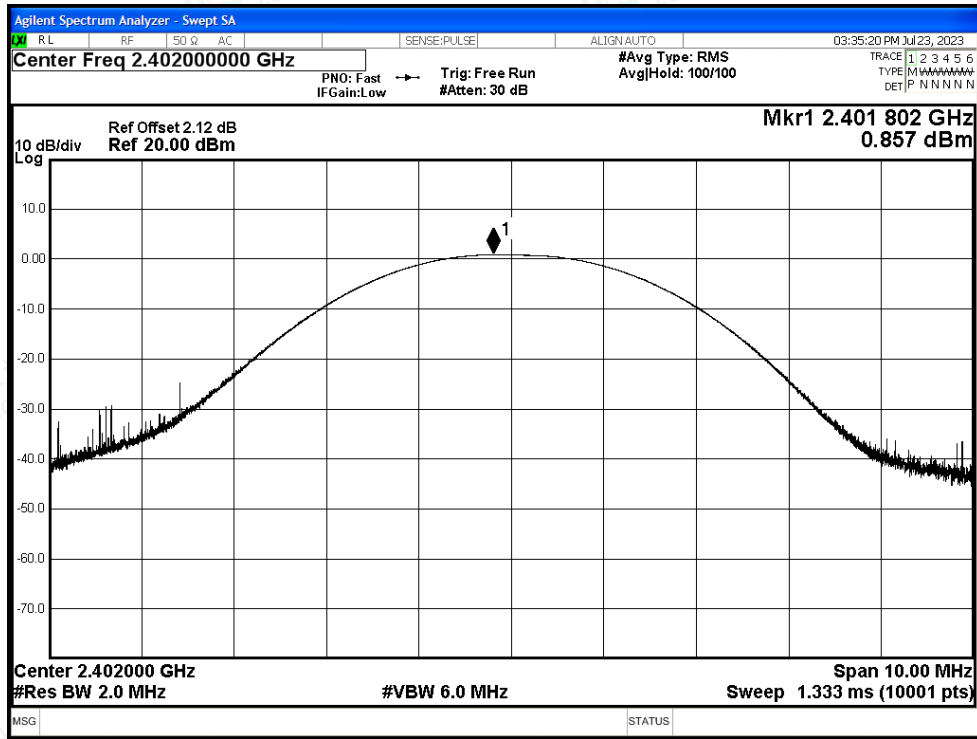
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.86	21	Pass
NVNT	1-DH5	2441	Ant1	1.84	21	Pass
NVNT	1-DH5	2480	Ant1	2.90	21	Pass
NVNT	2-DH5	2402	Ant1	1.70	21	Pass
NVNT	2-DH5	2441	Ant1	2.74	21	Pass
NVNT	2-DH5	2480	Ant1	1.20	21	Pass
NVNT	3-DH5	2402	Ant1	1.80	21	Pass
NVNT	3-DH5	2441	Ant1	2.93	21	Pass
NVNT	3-DH5	2480	Ant1	1.29	21	Pass



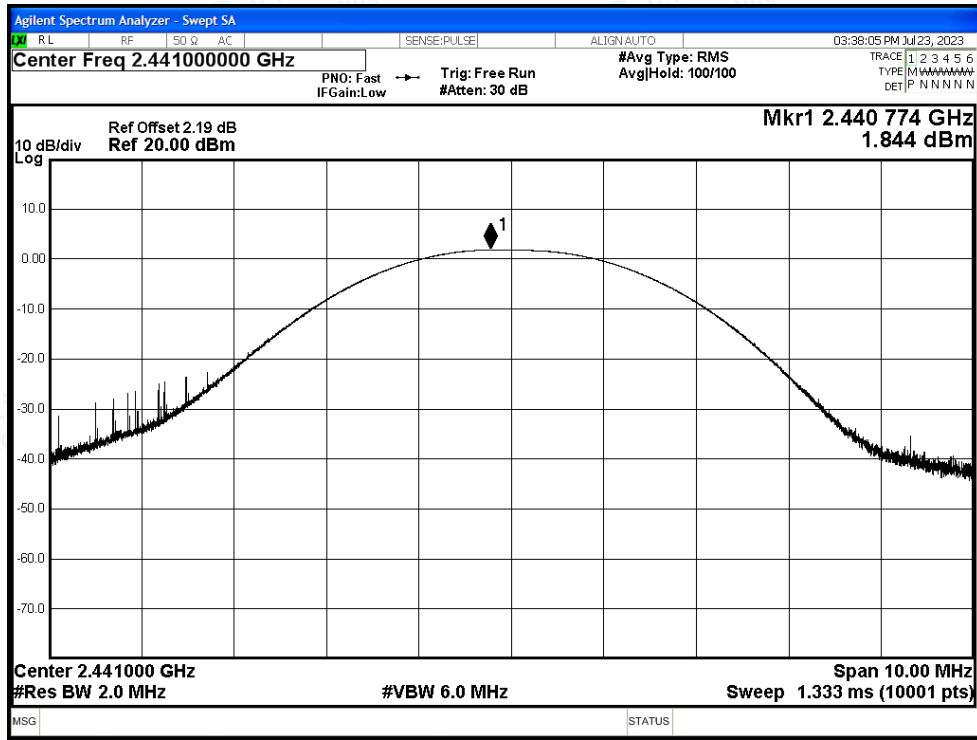


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

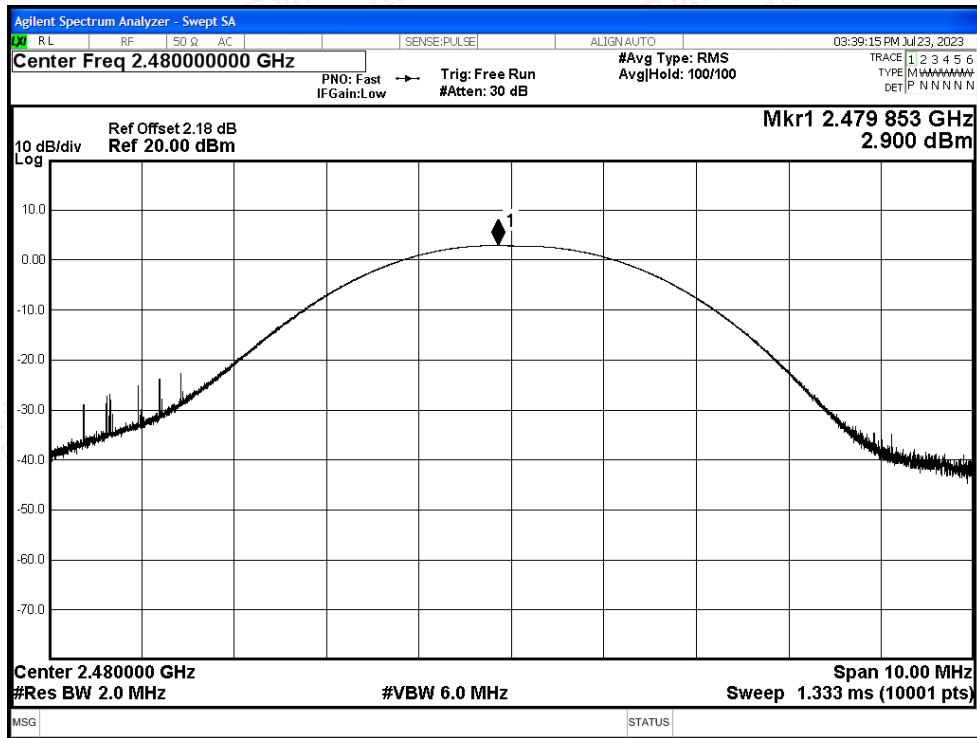


Power NVNT 1-DH5 2441MHz Ant1

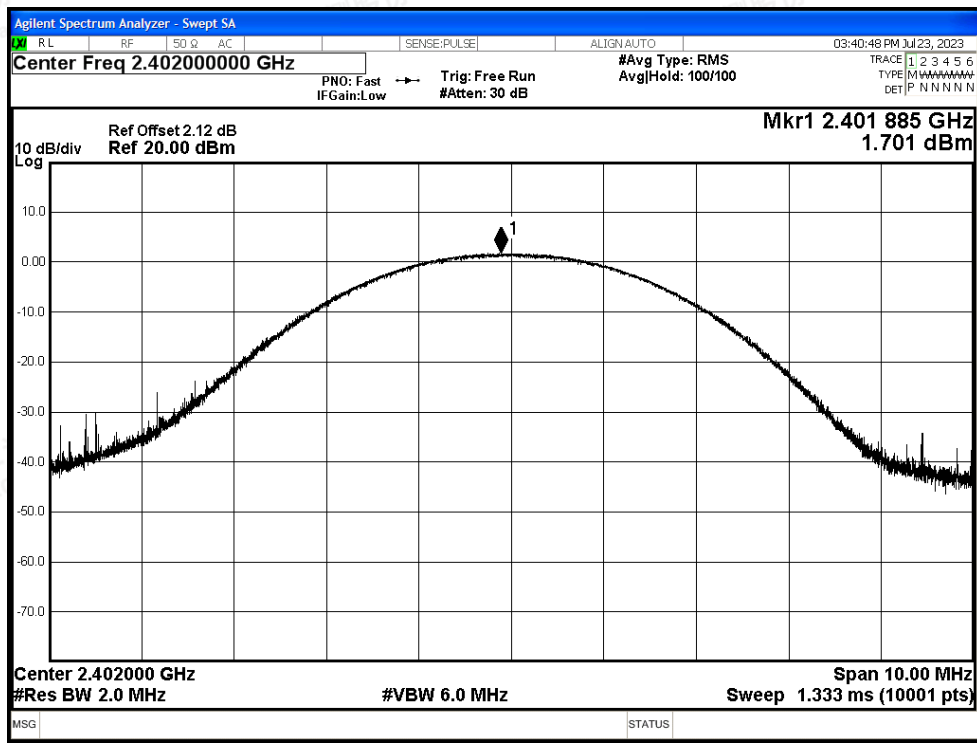




Power NVNT 1-DH5 2480MHz Ant1

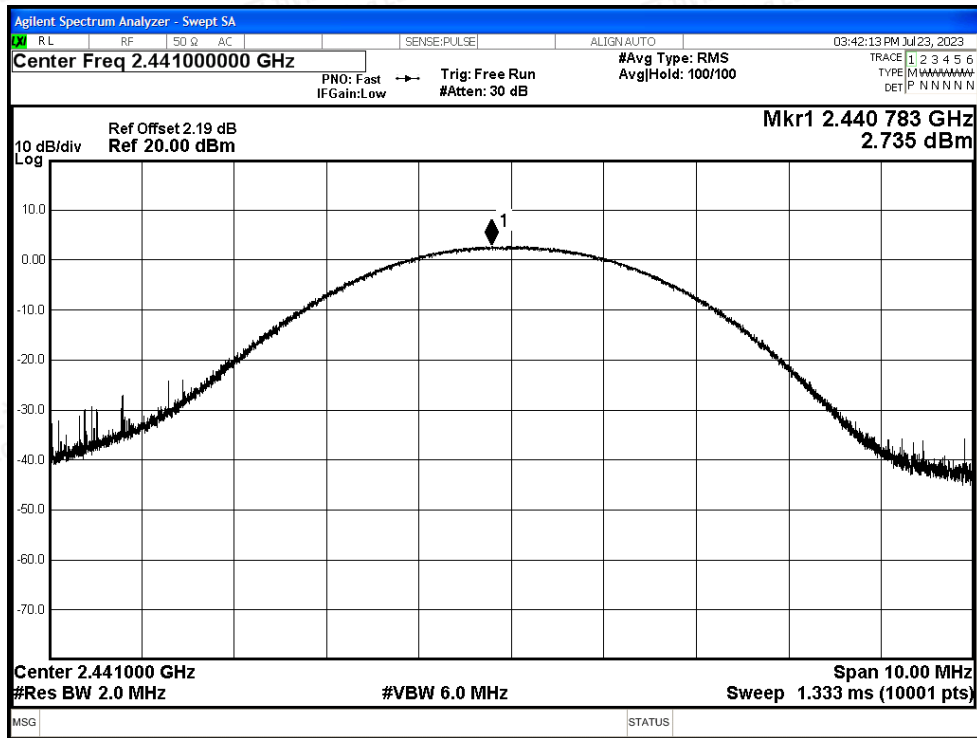


Power NVNT 2-DH5 2402MHz Ant1

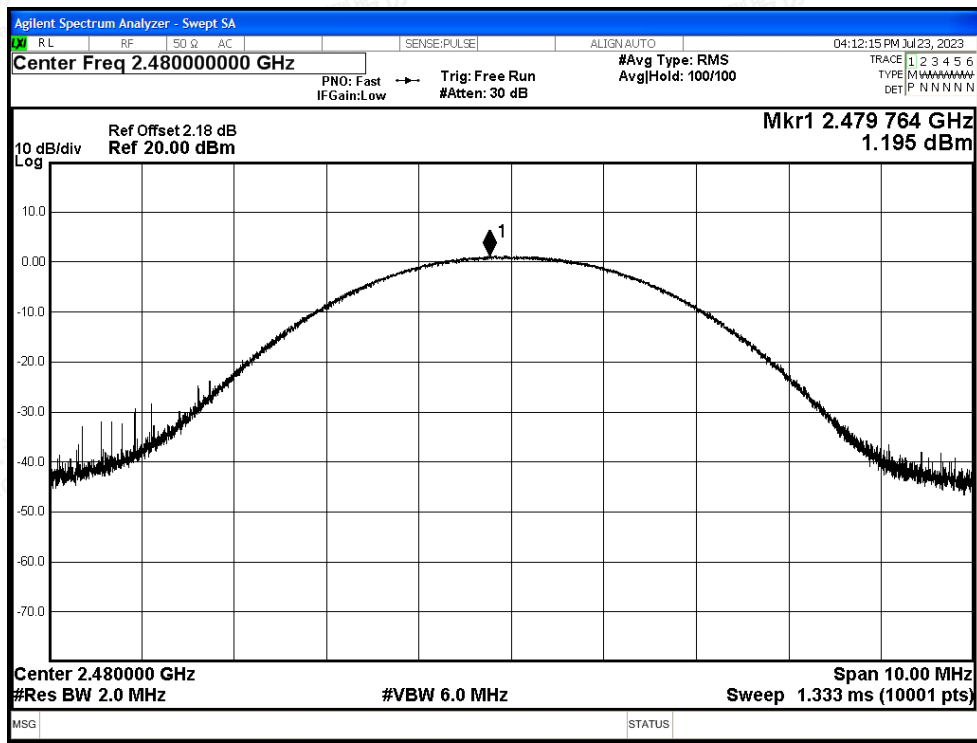




Power NVNT 2-DH5 2441MHz Ant1

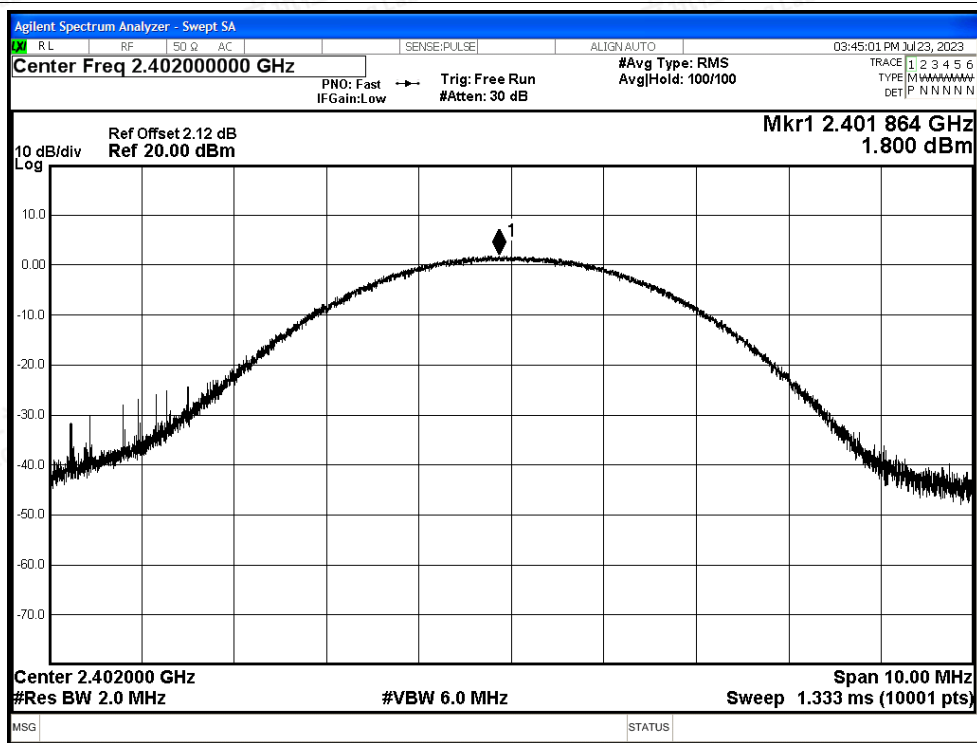


Power NVNT 2-DH5 2480MHz Ant1

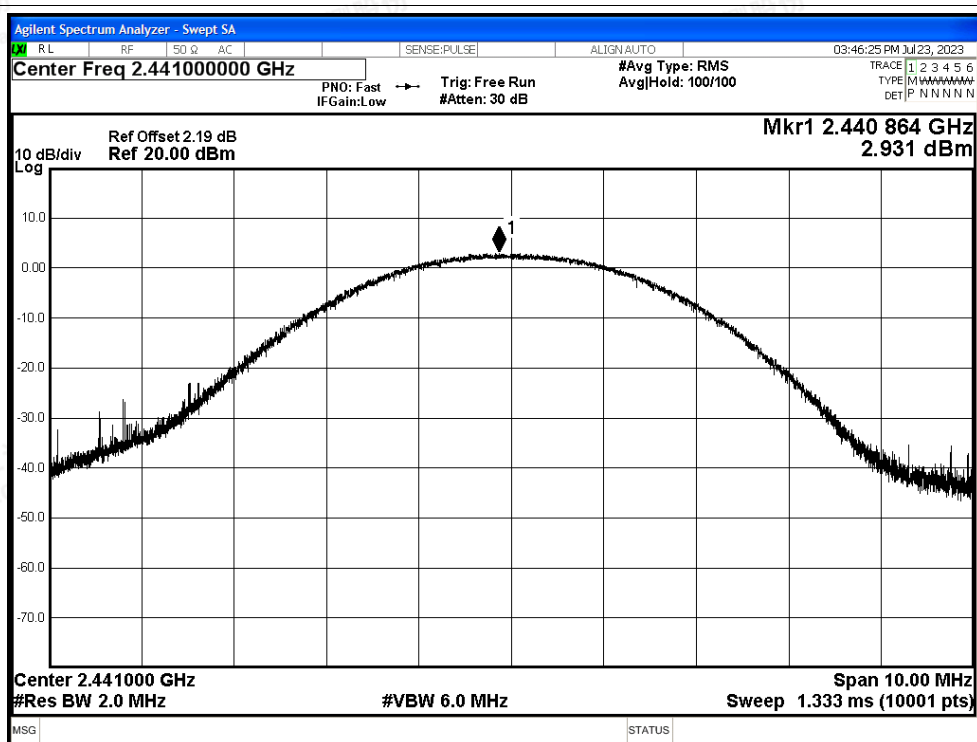




Power NVNT 3-DH5 2402MHz Ant1

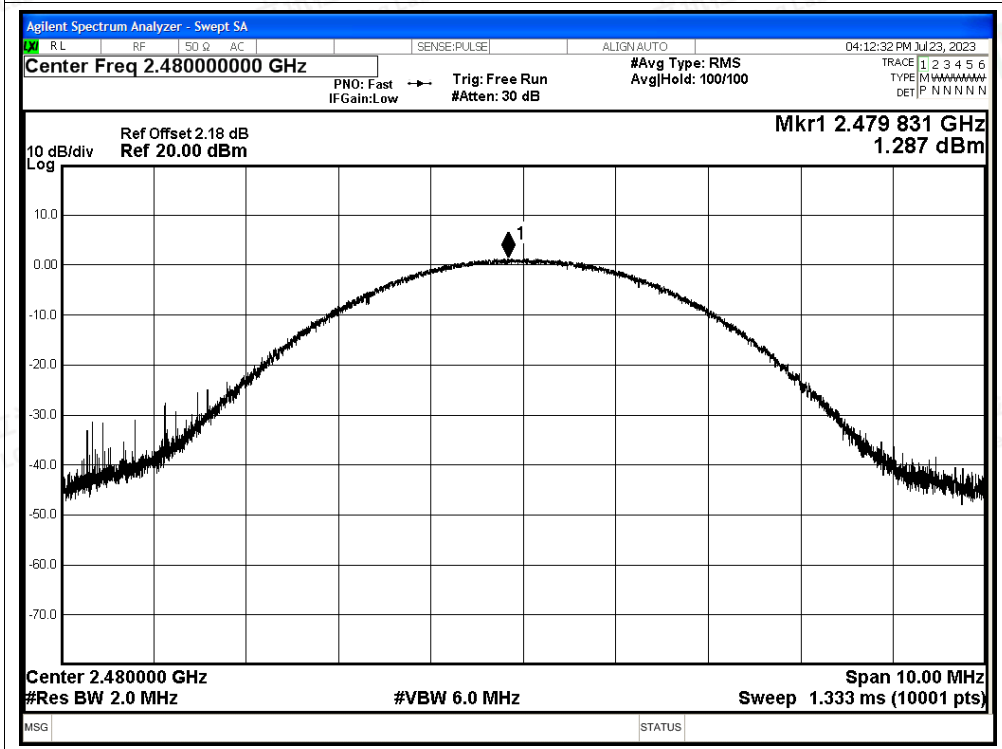


Power NVNT 3-DH5 2441MHz Ant1





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	2402	2402.96	0.96	0.631	Pass
NVNT	2-DH5	Ant1	2401.84	2402.968	1.128	0.867	Pass
NVNT	3-DH5	Ant1	2401.846	2402.97	1.124	0.849	Pass

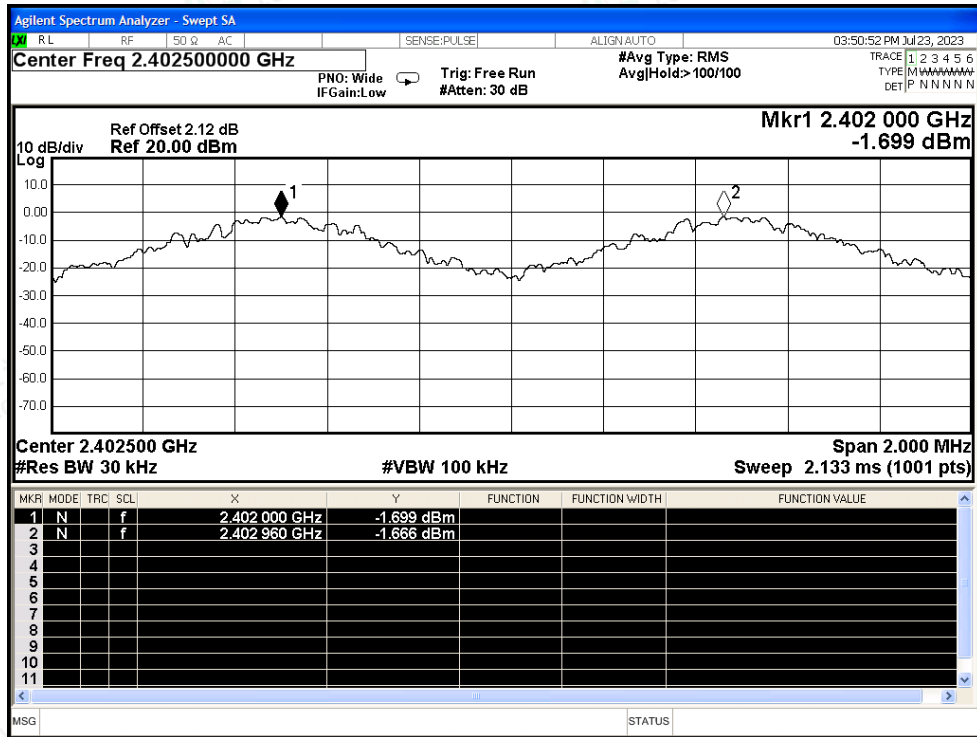


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

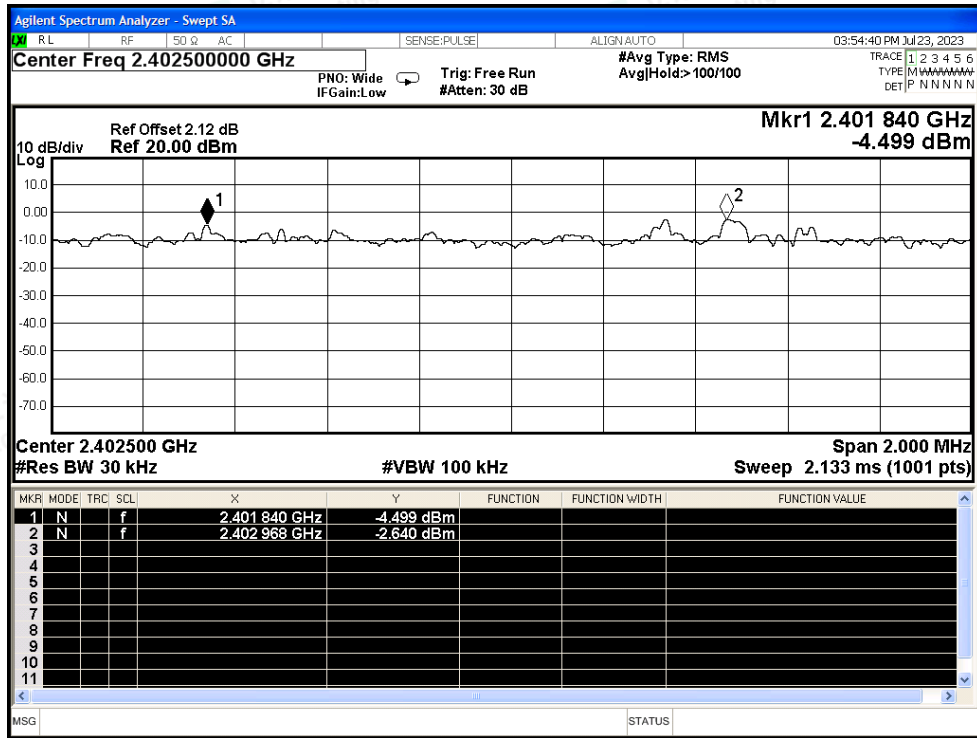


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

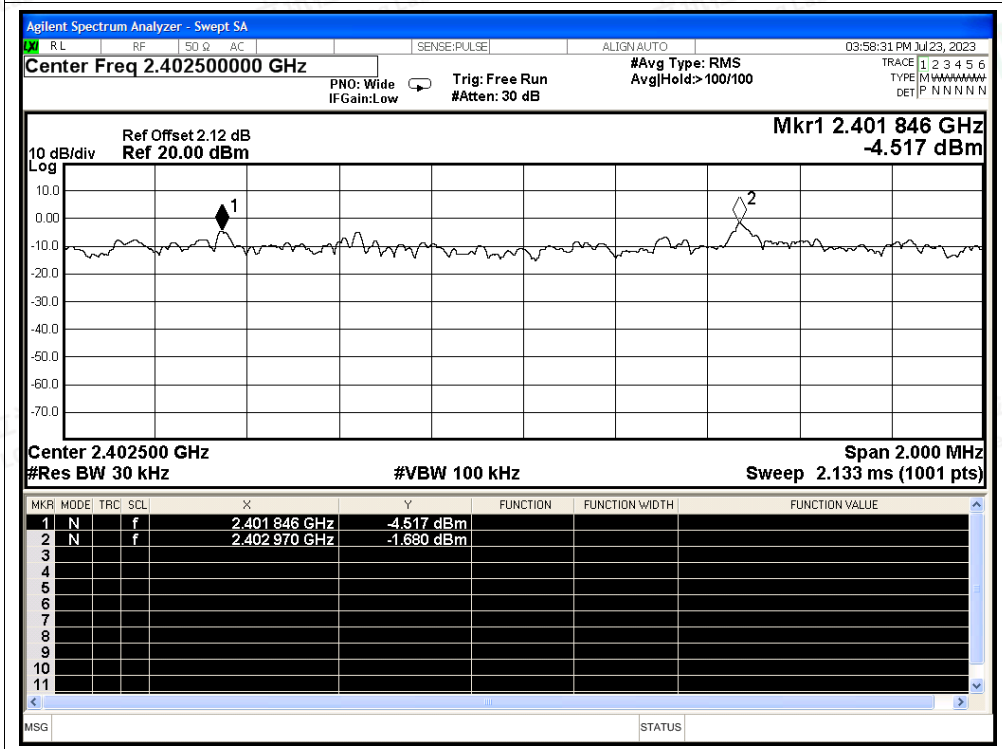


CFS NVNT 2-DH5 2402MHz Ant1





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	317.02	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	311.148	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	303.135	105	31600	400	Pass

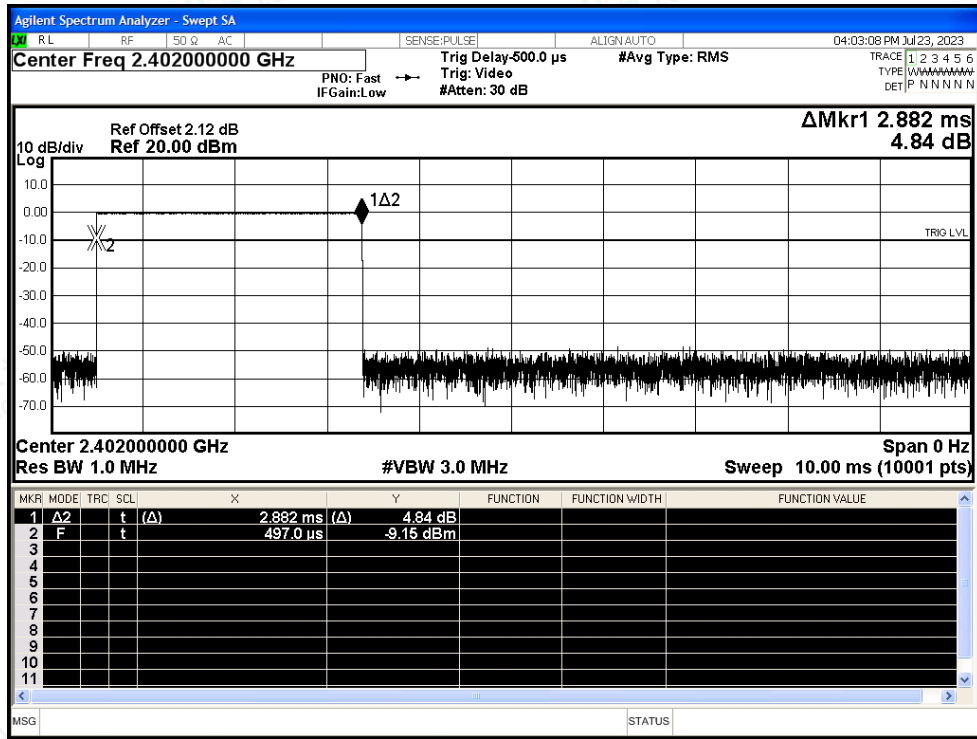


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Scan code to check authenticity

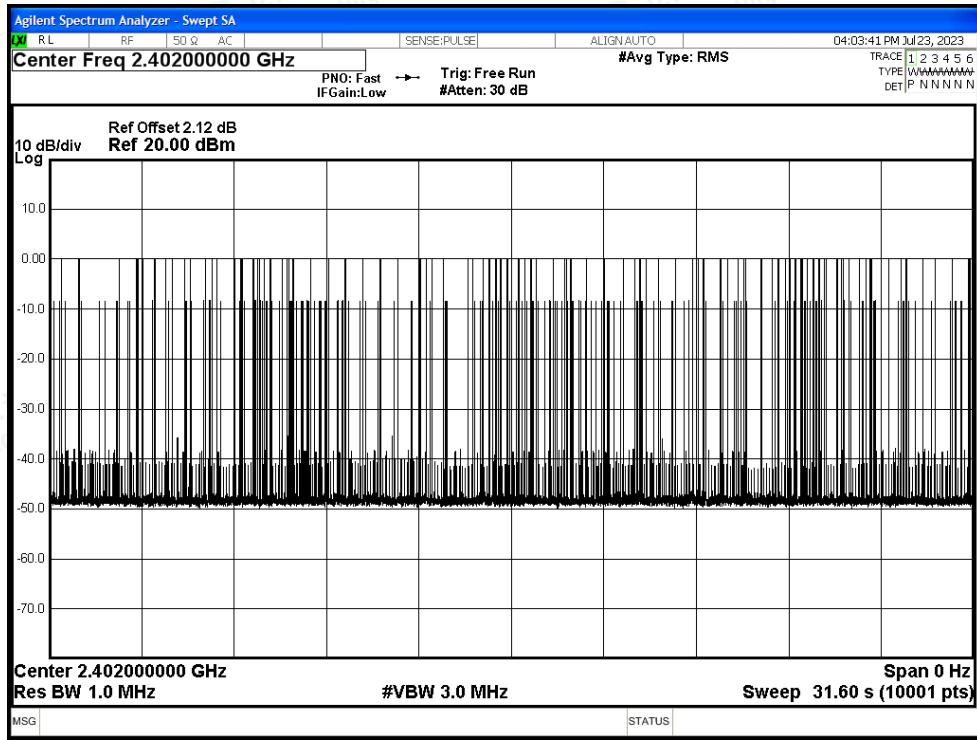


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

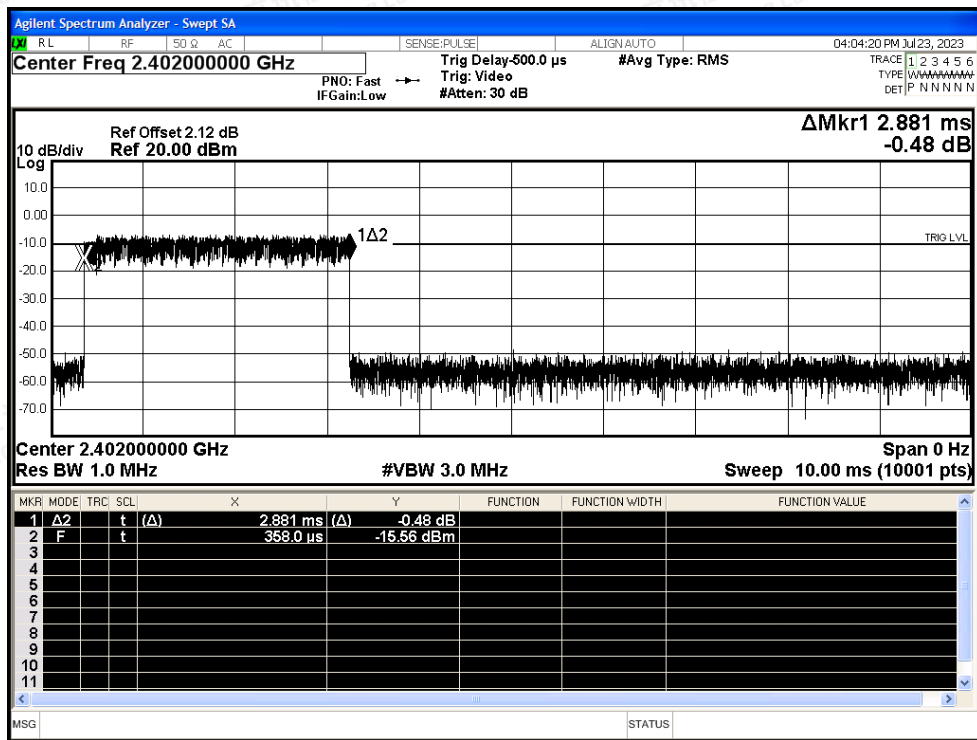


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

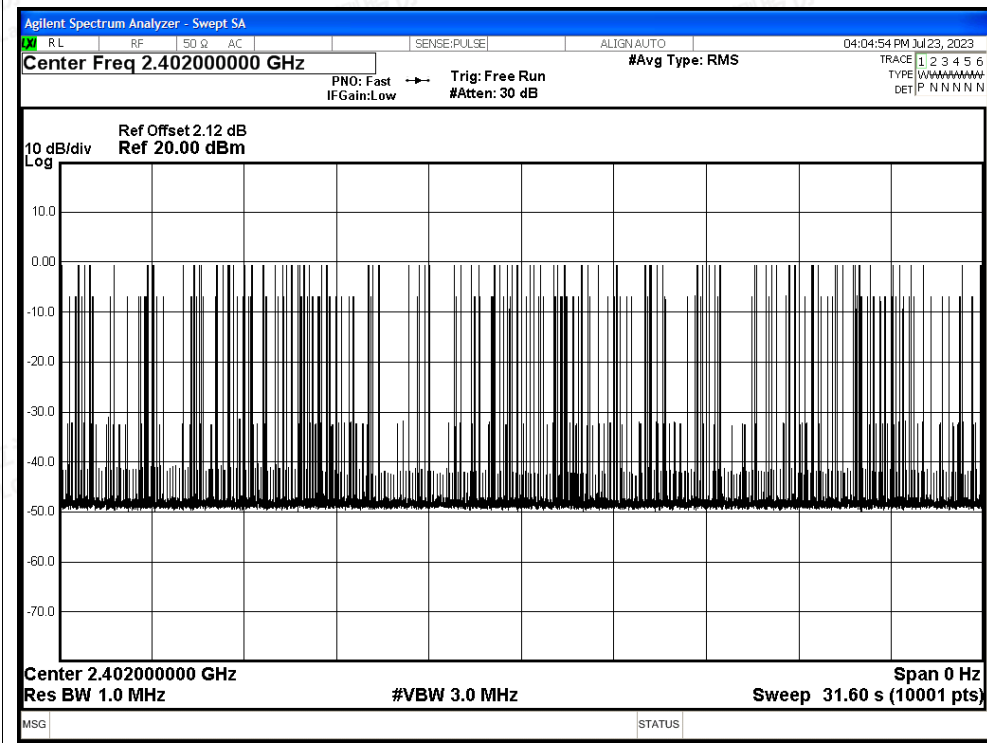




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

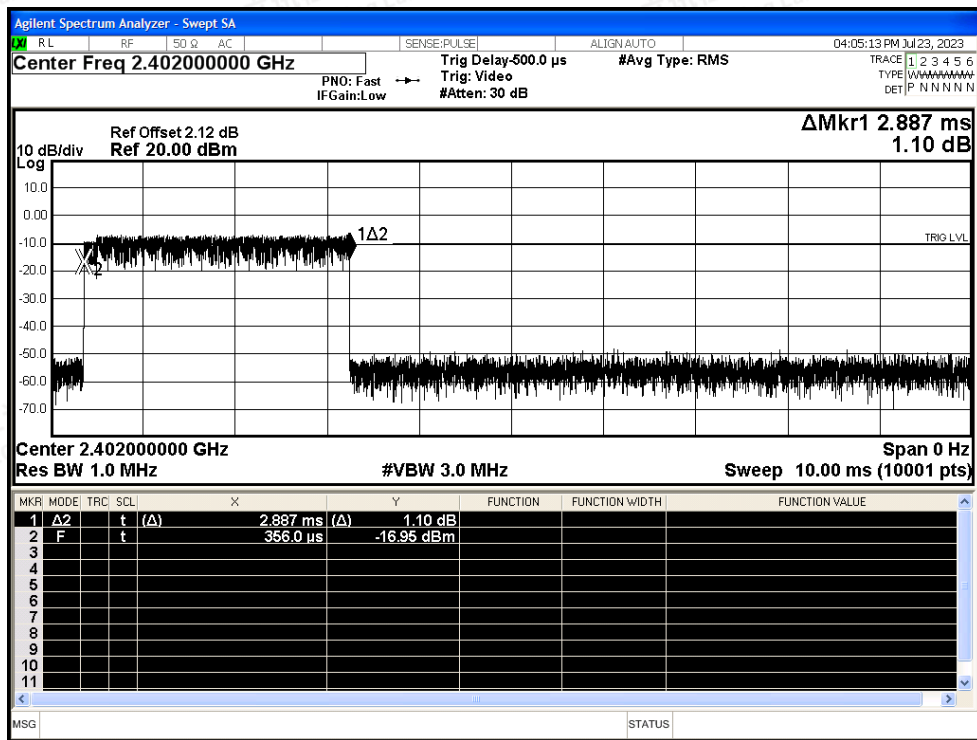


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

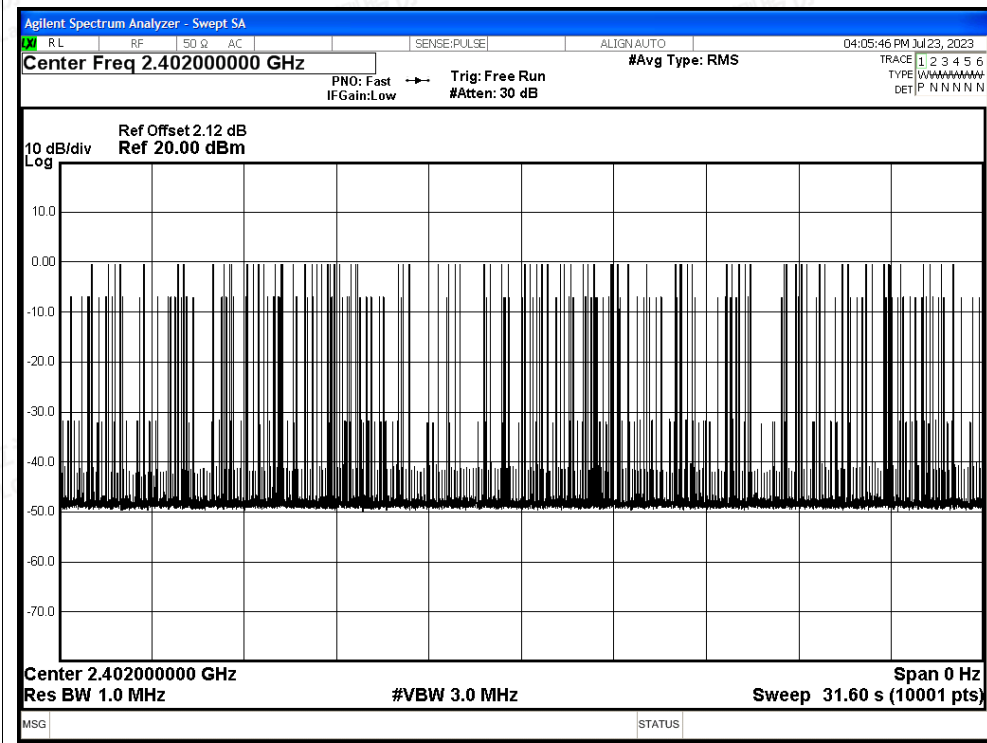




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

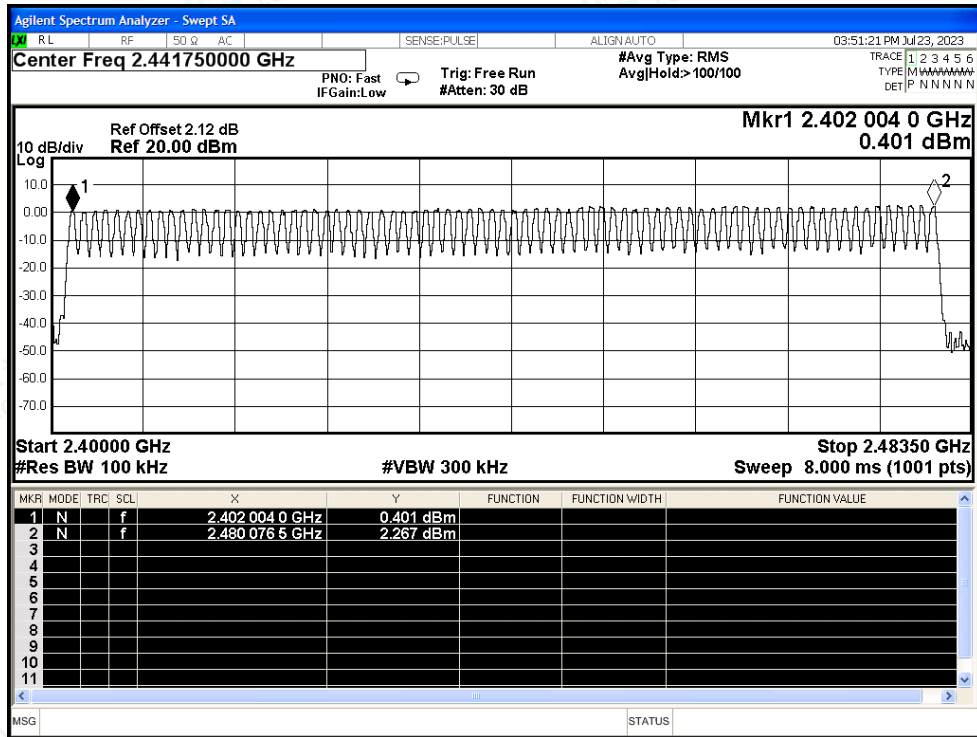
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



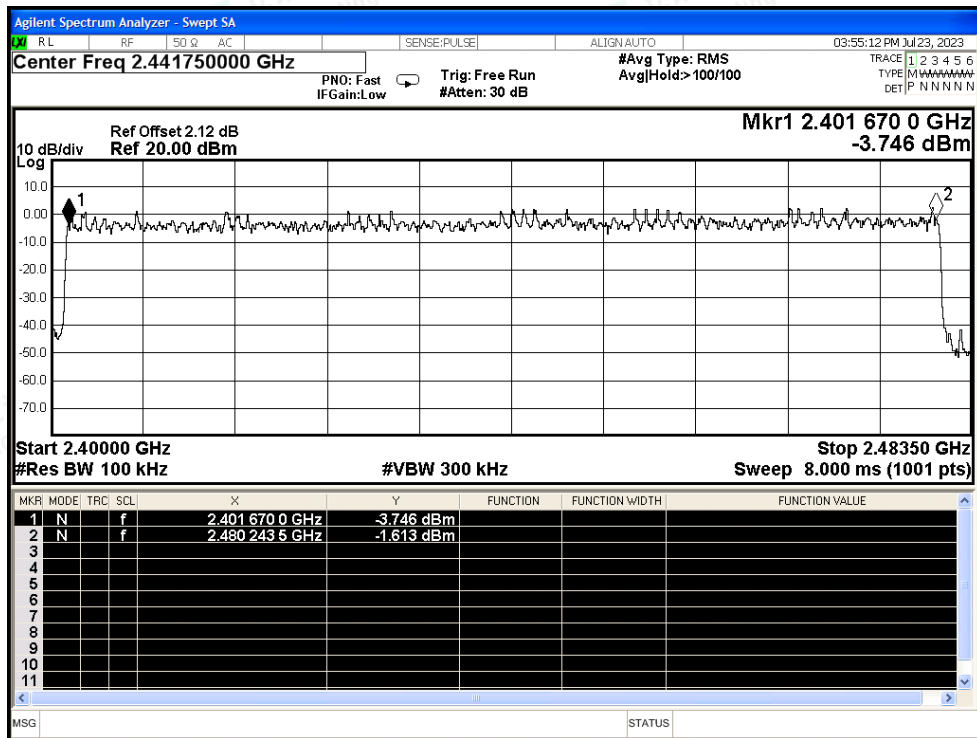


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

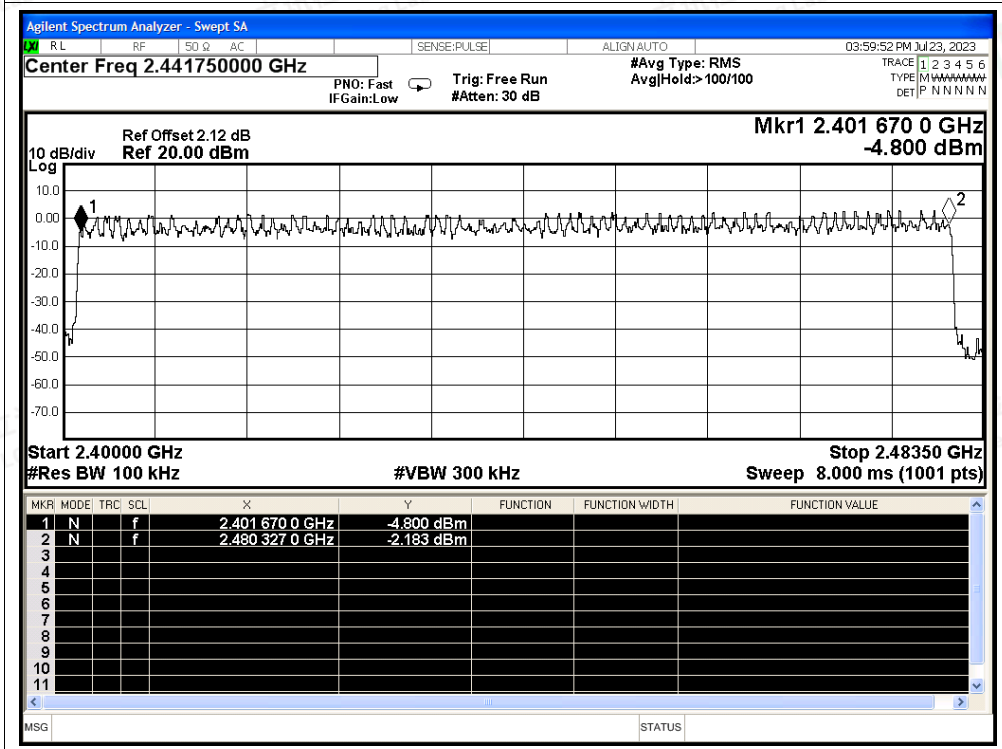


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

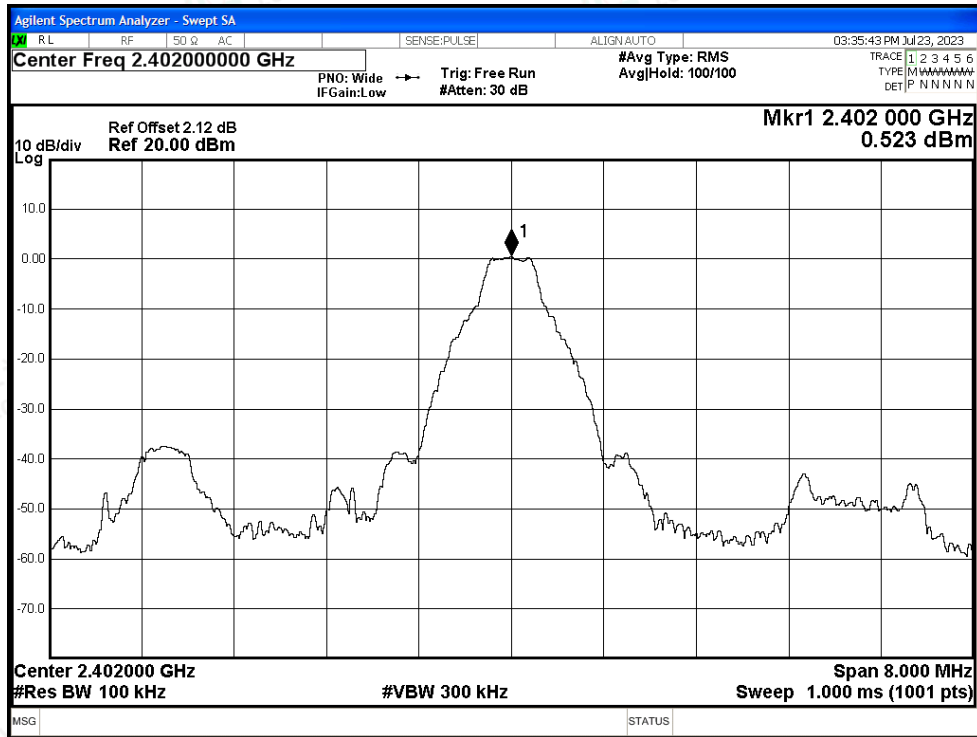
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-37.28	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-47.23	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-36.54	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.87	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-38.88	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.41	-20	Pass



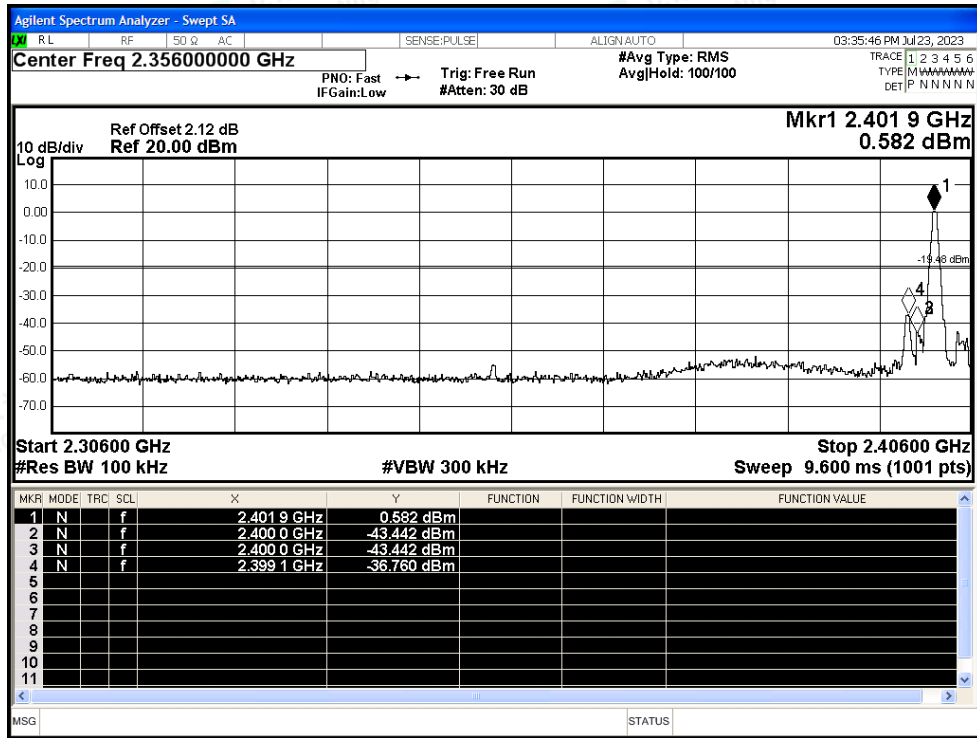


Test Graphs

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

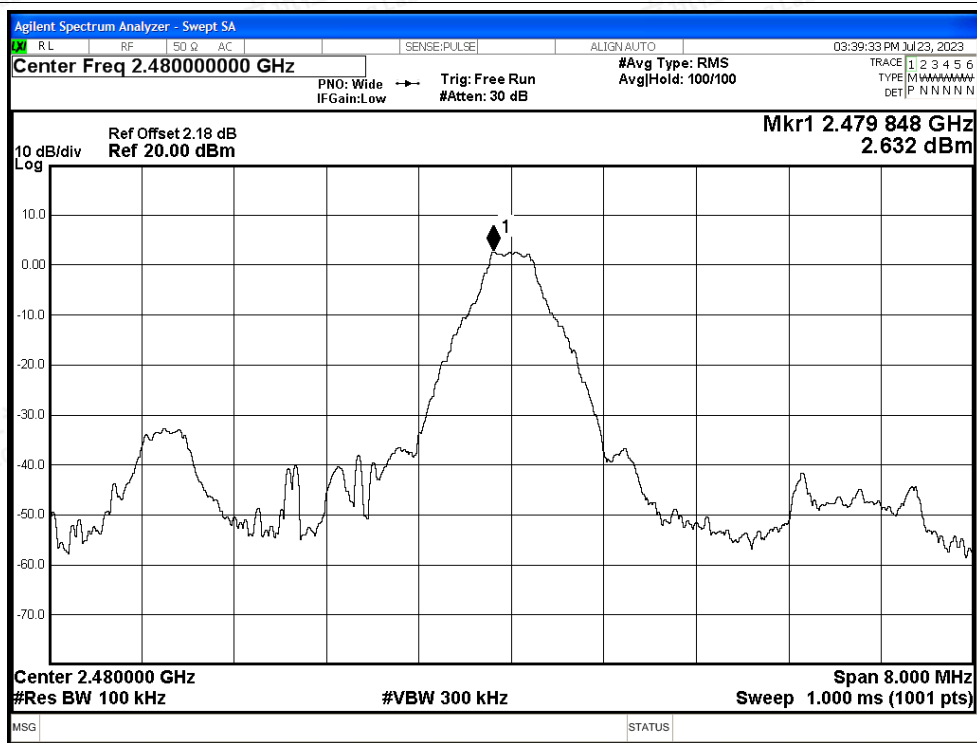


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

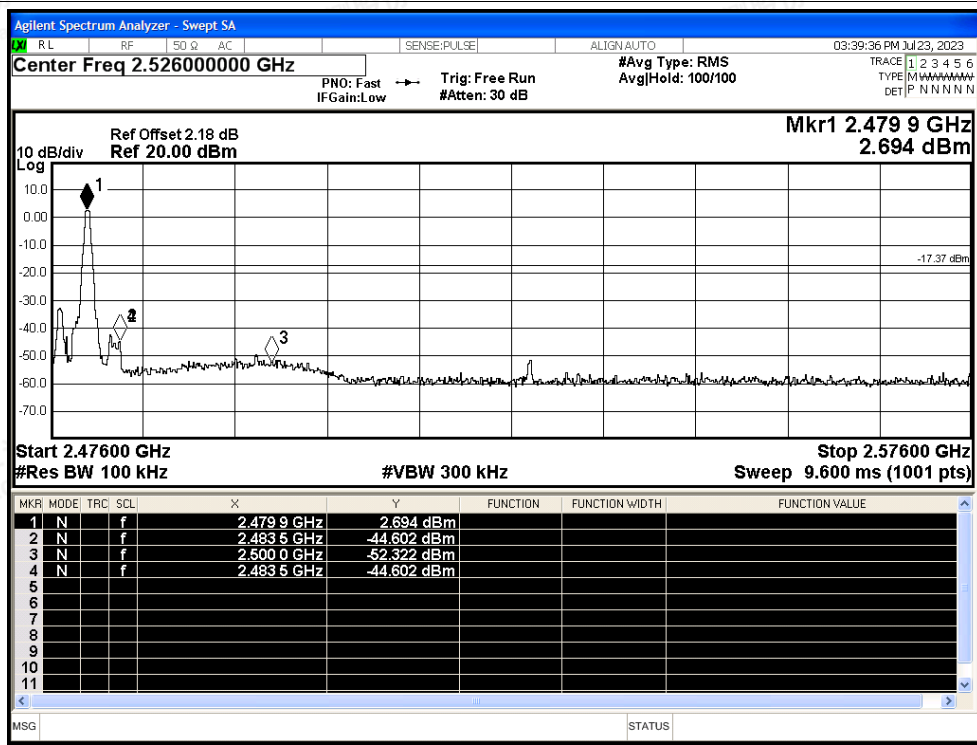




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

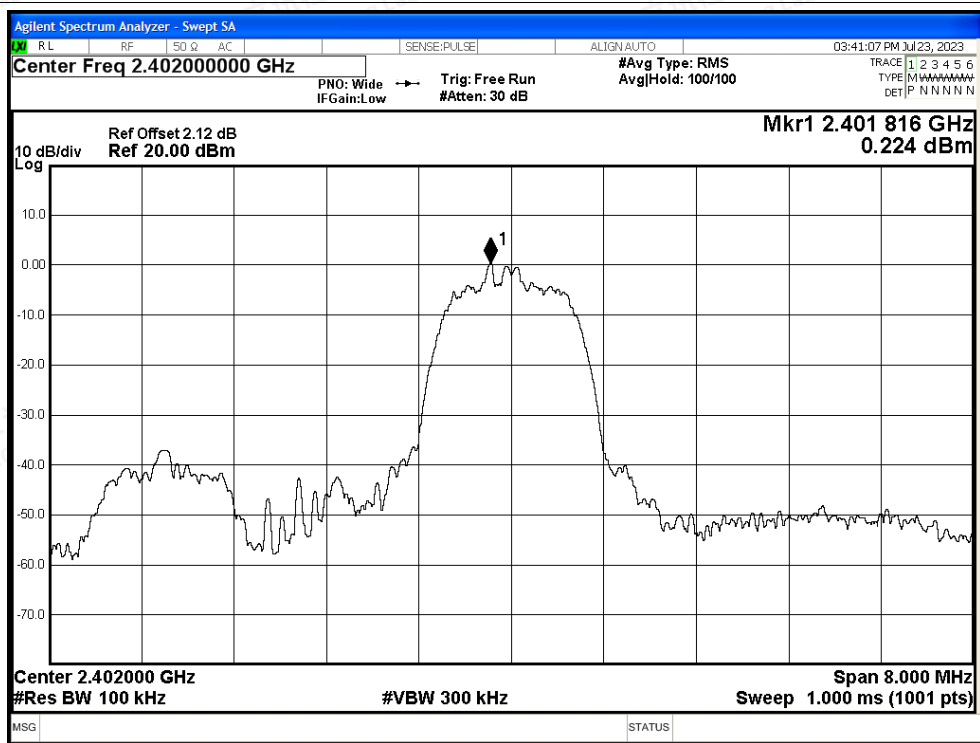


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

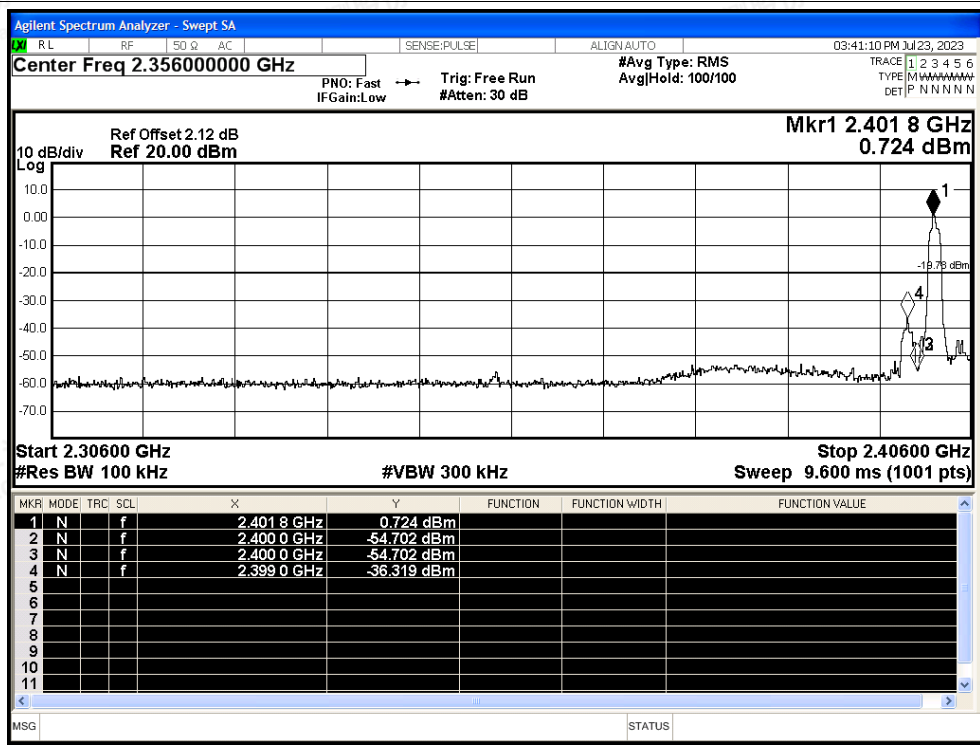




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

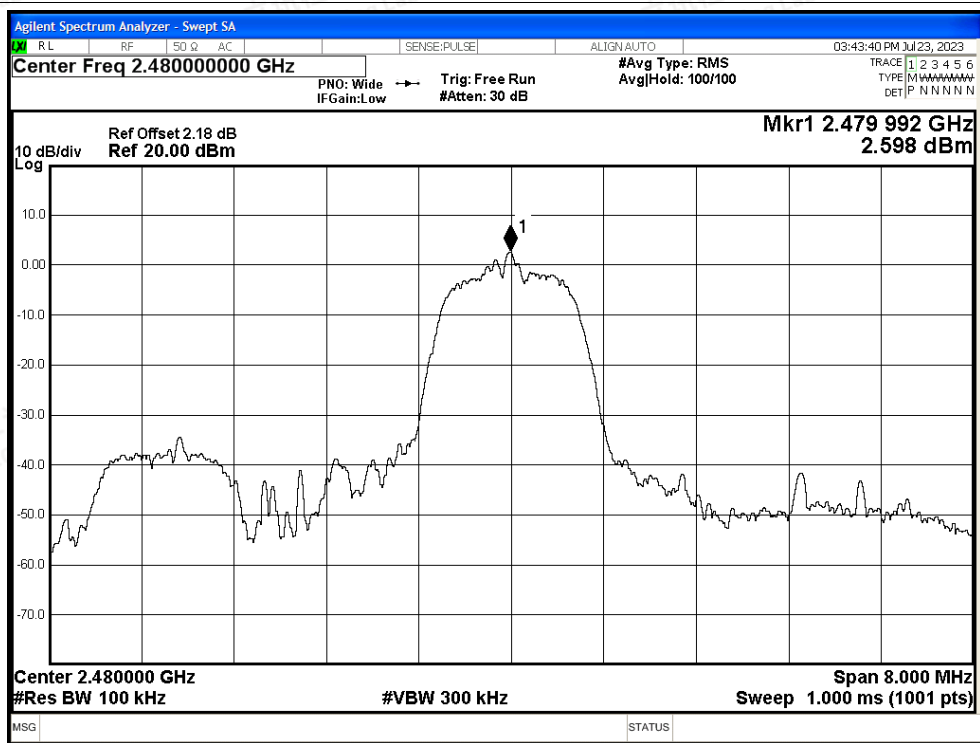


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

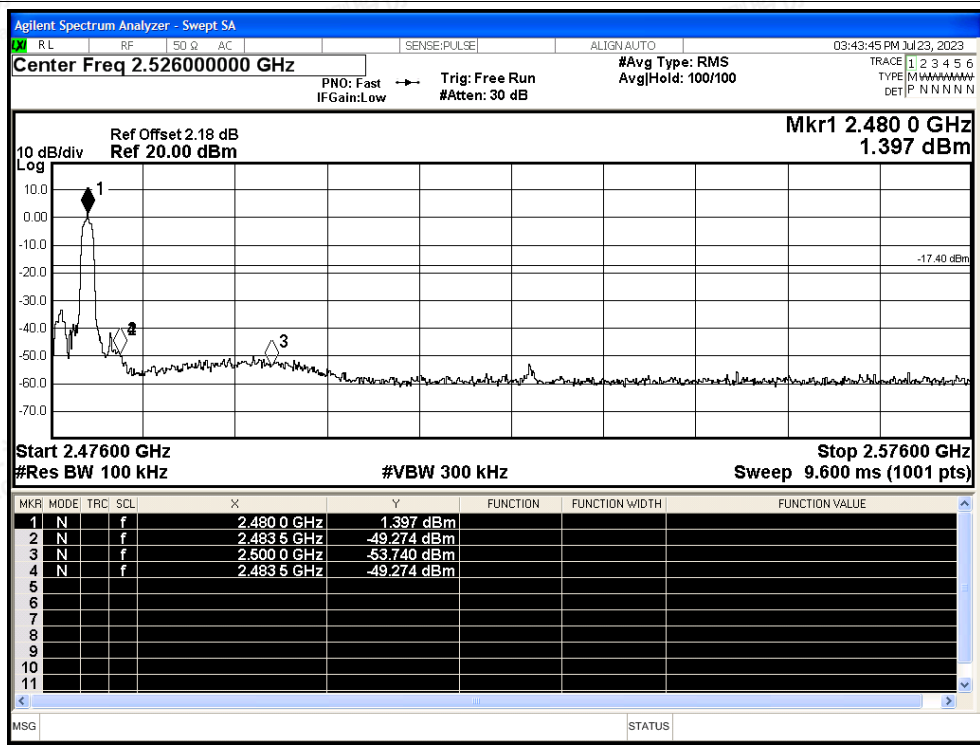




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

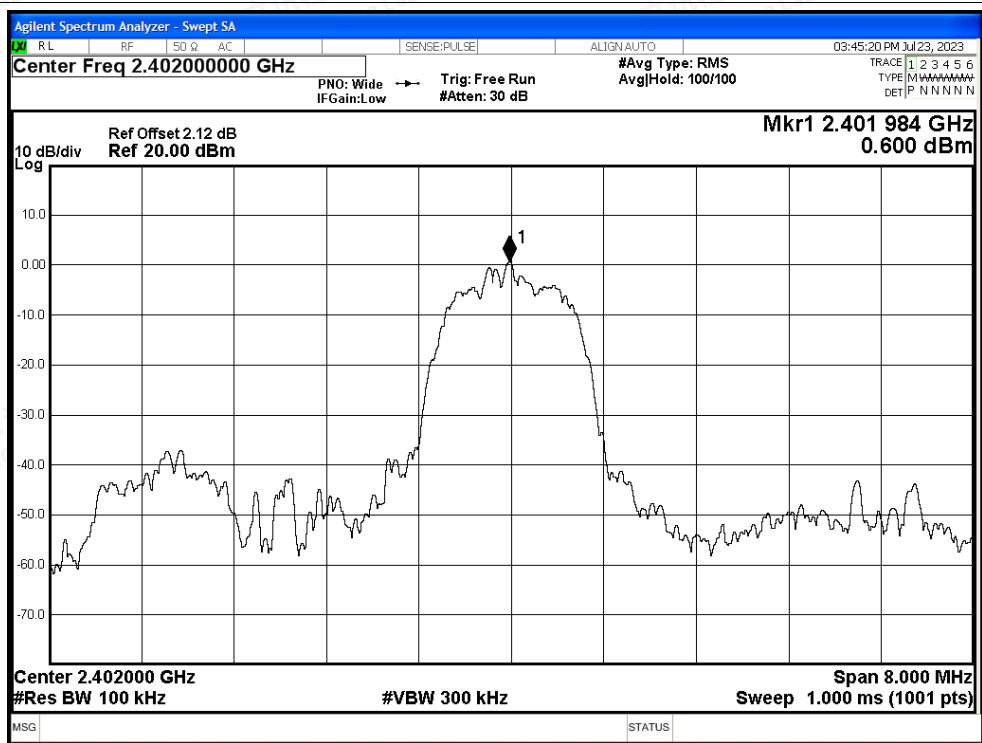


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

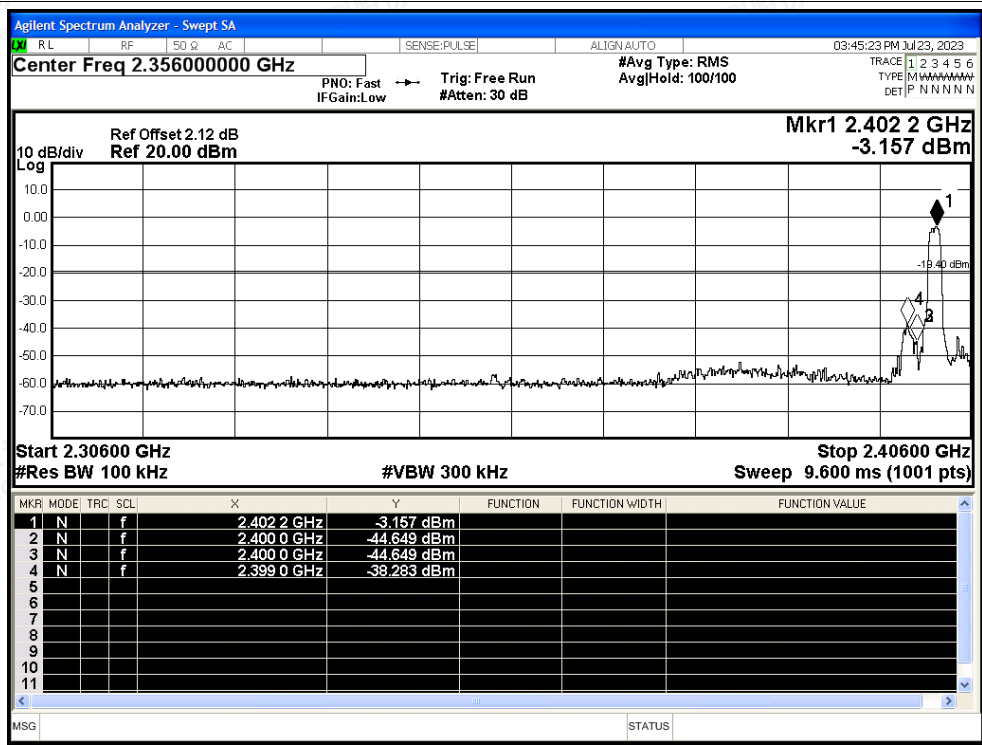




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

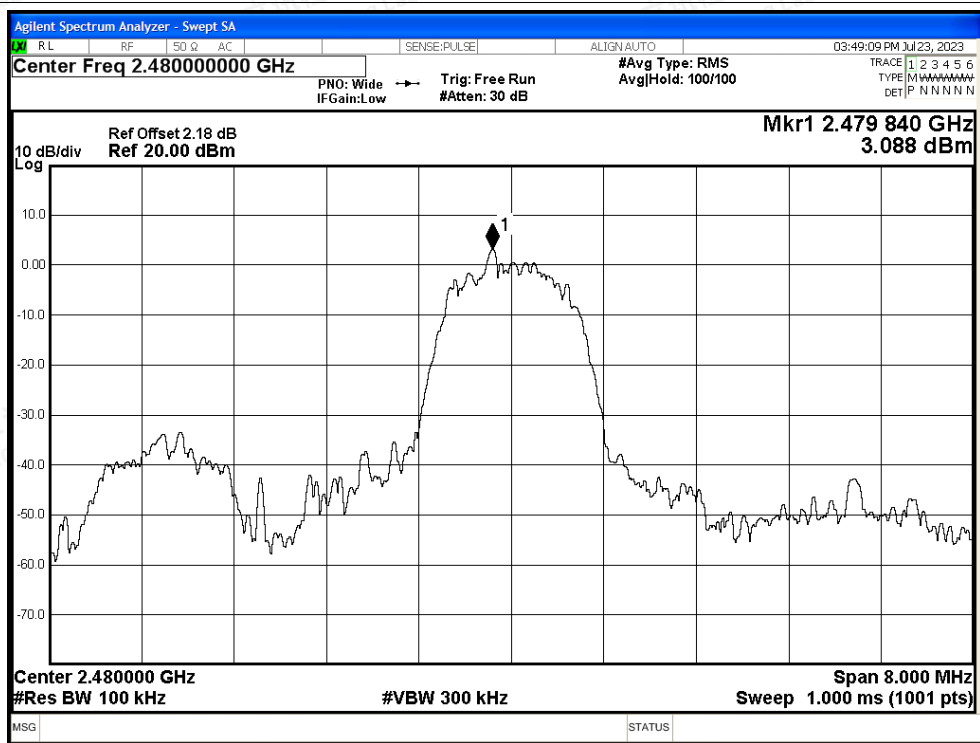


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

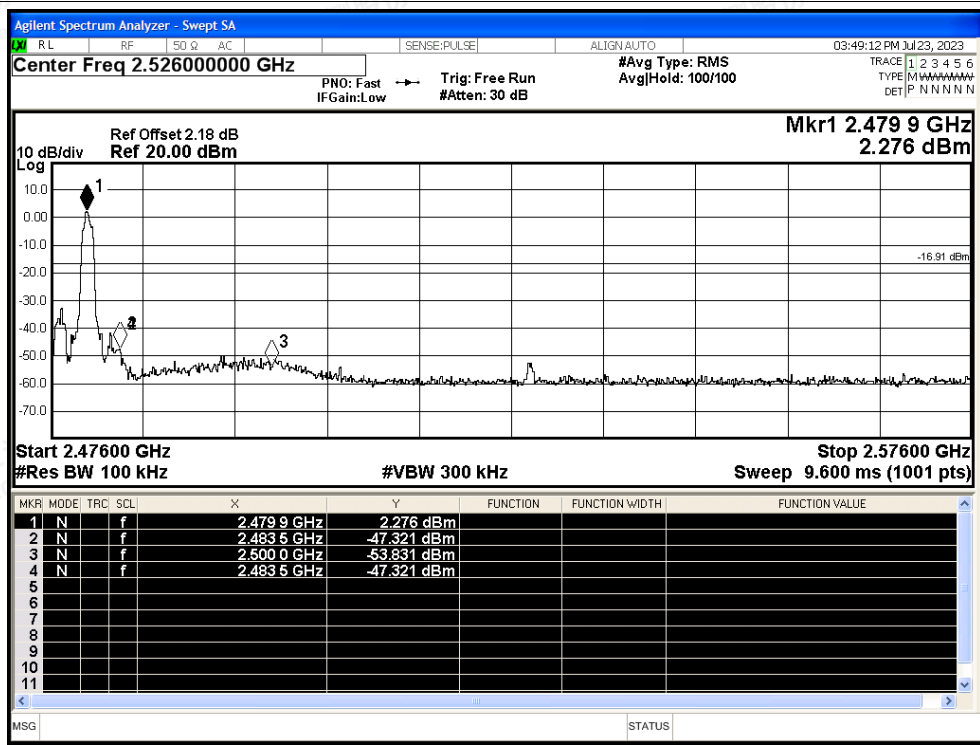




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

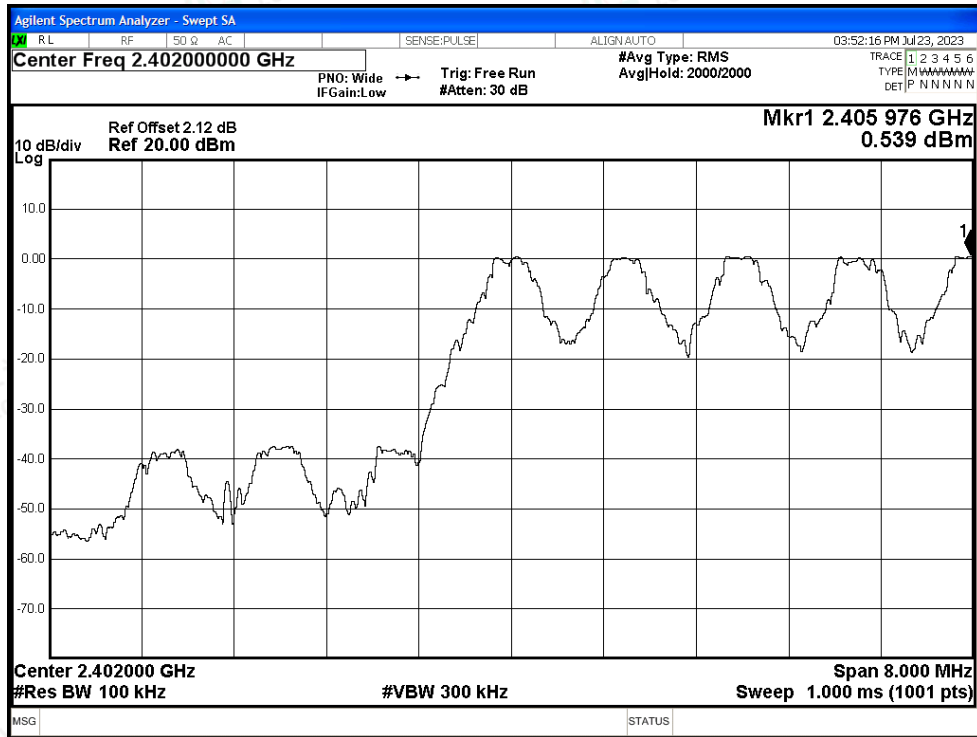
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.57	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-46.22	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.29	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-50.87	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.01	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.38	-20	Pass



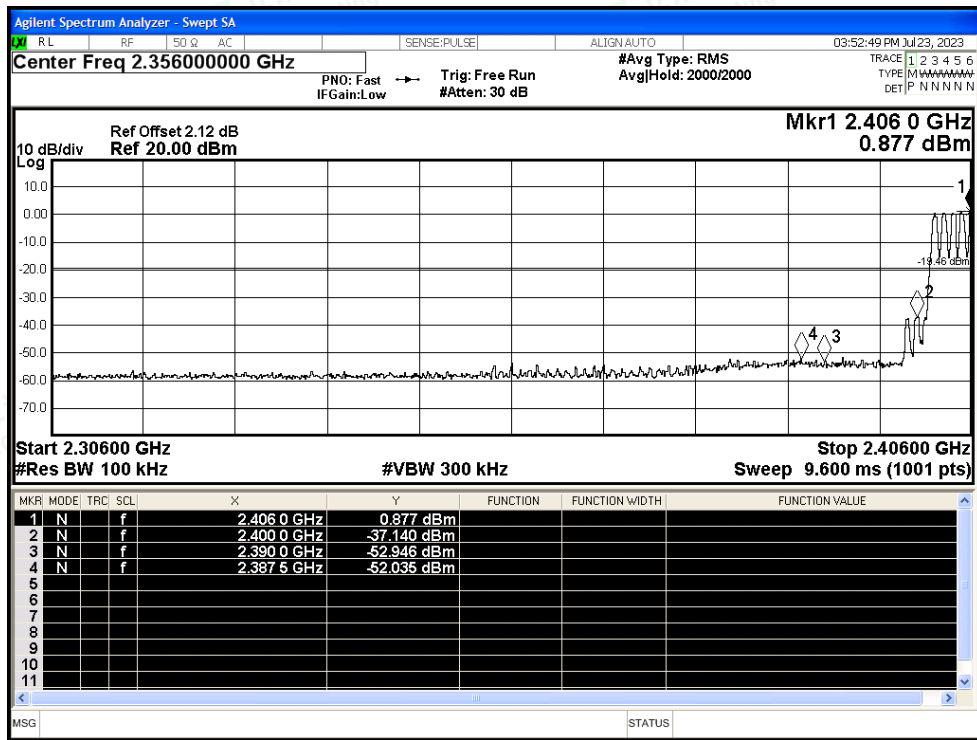


Test Graphs

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

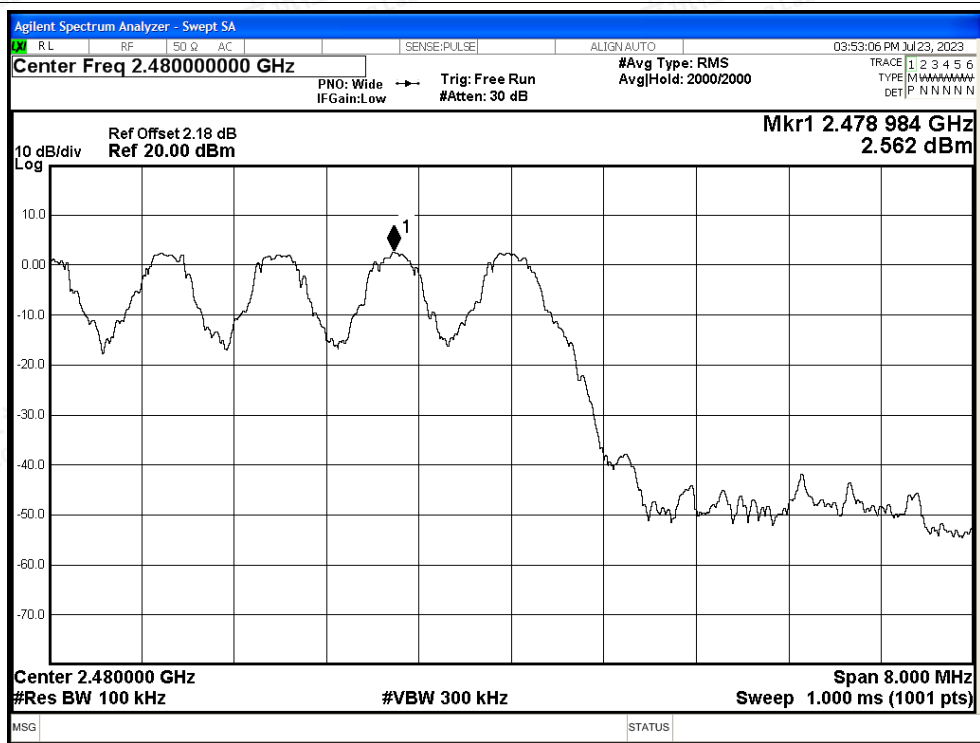


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

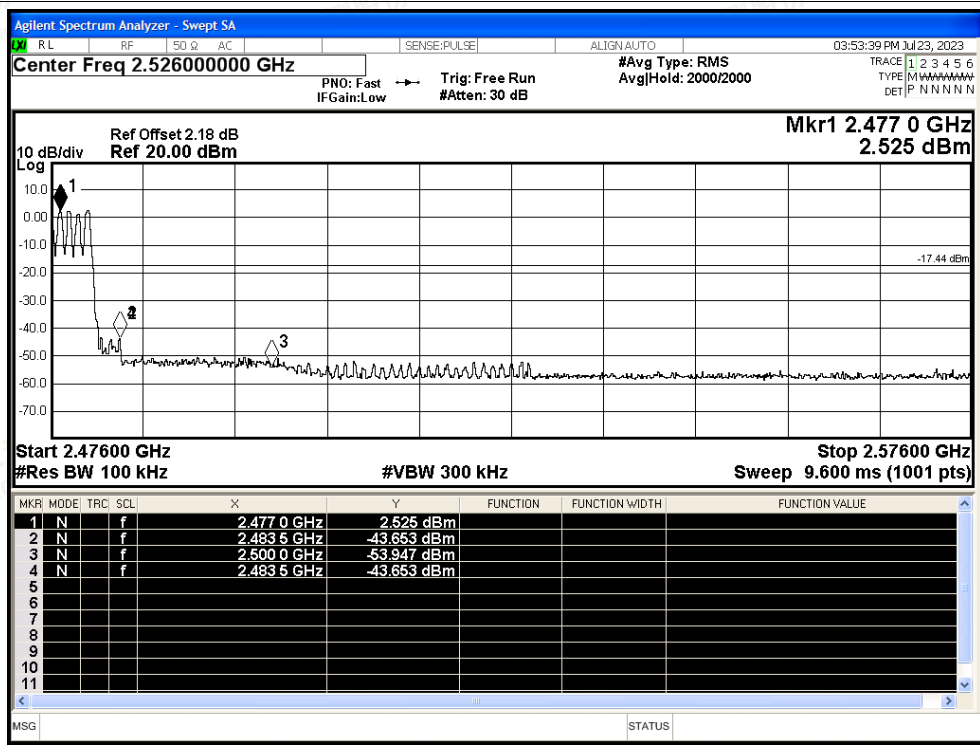




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

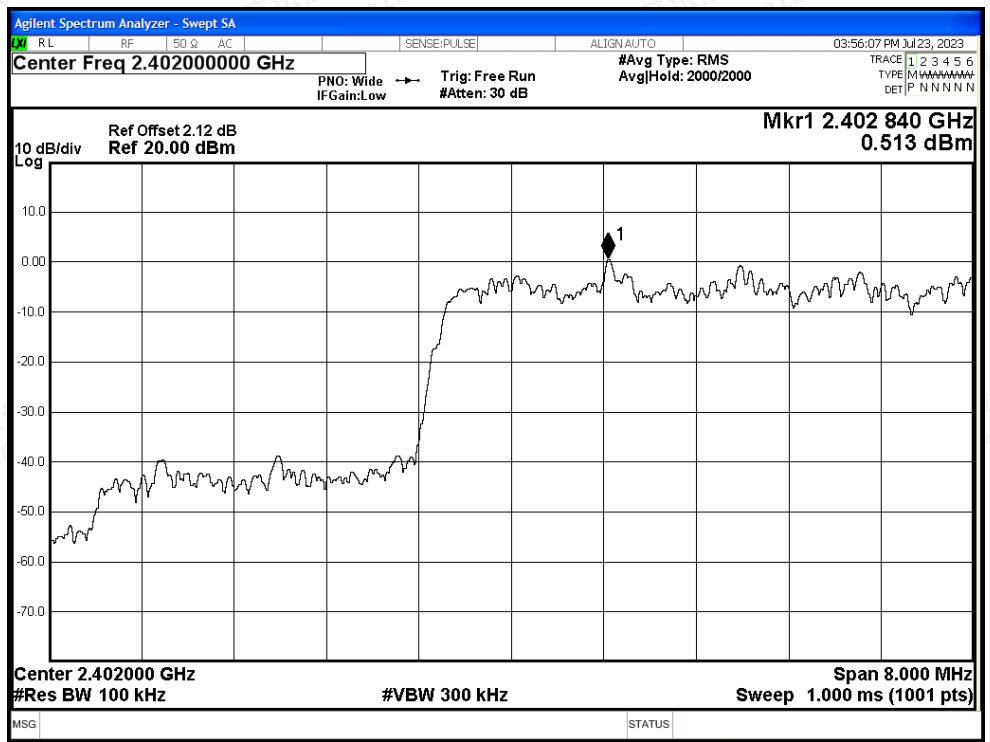


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

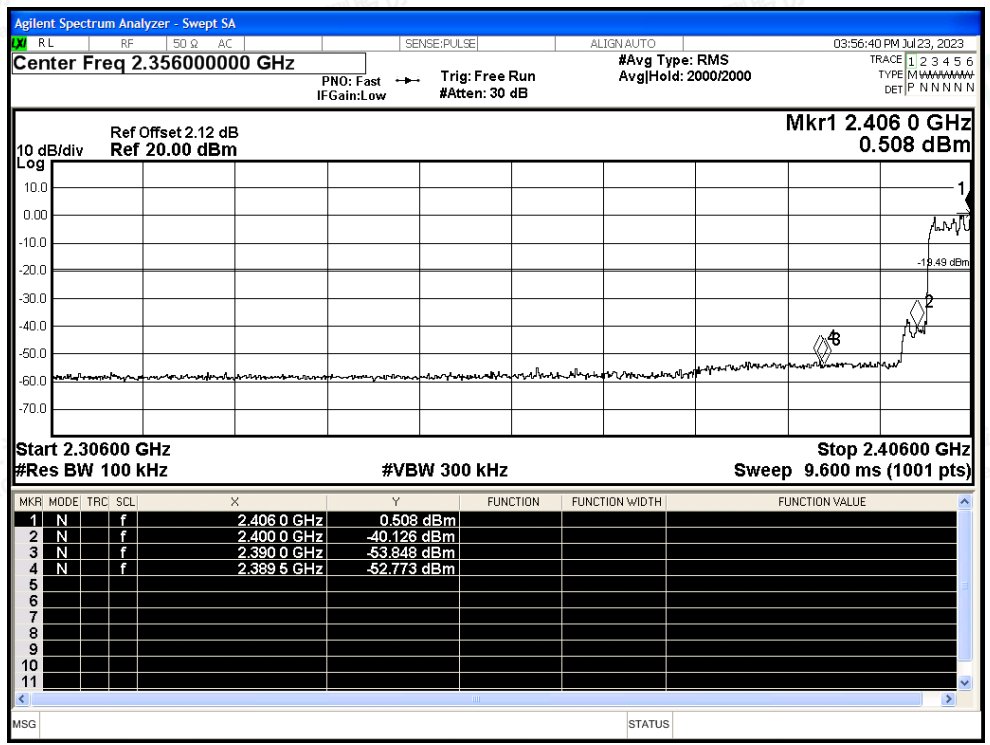




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

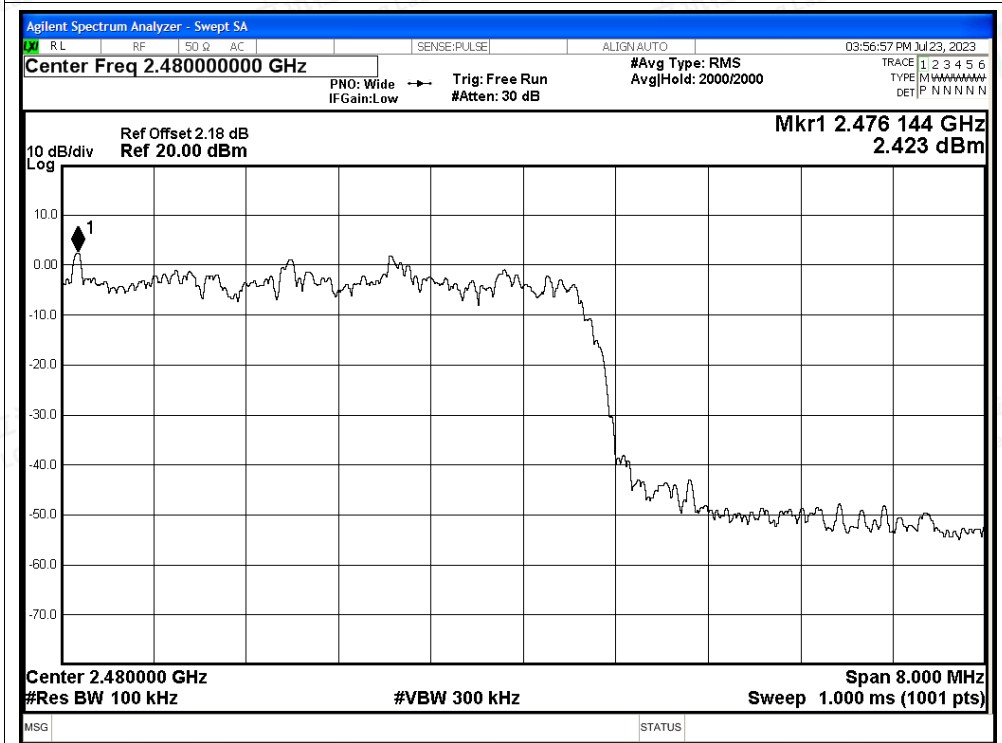


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

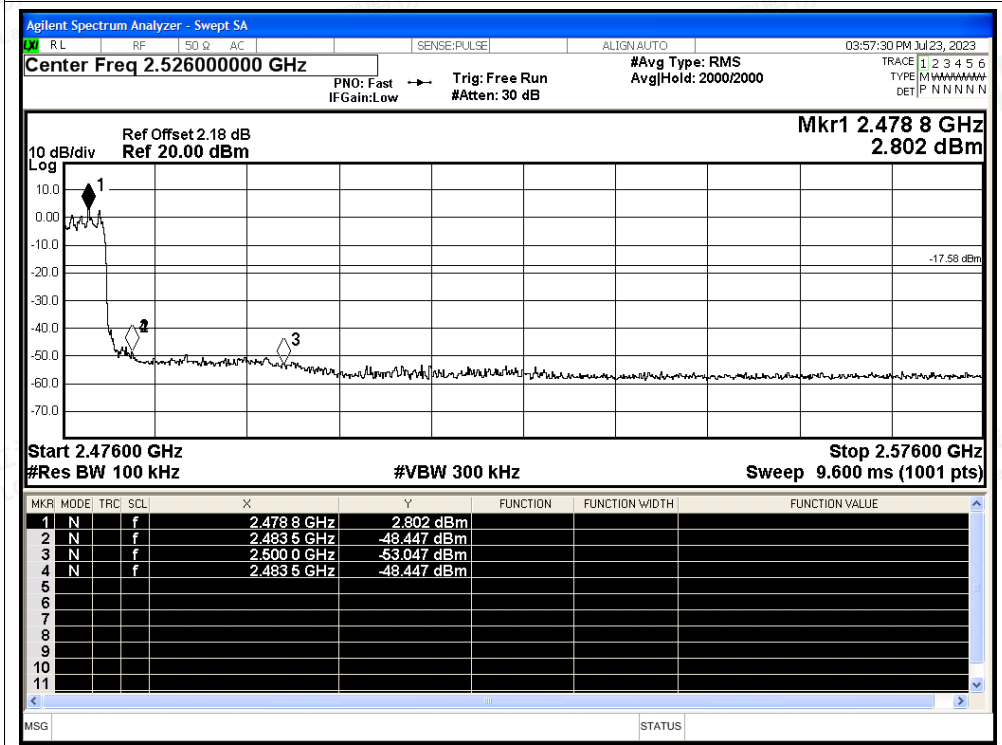




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

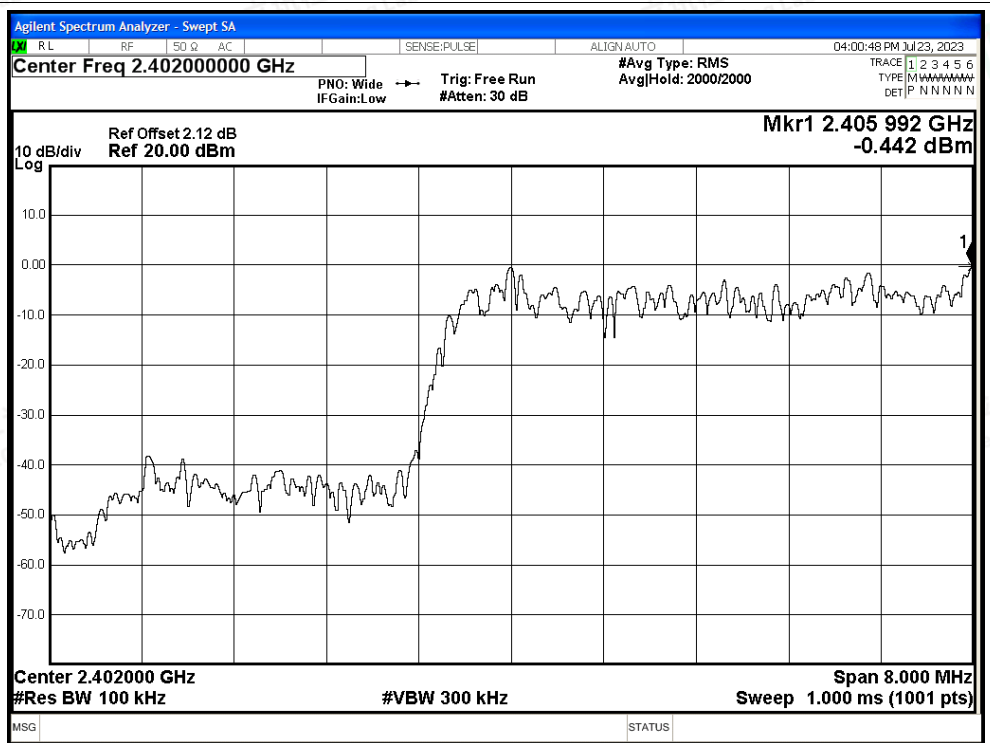


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

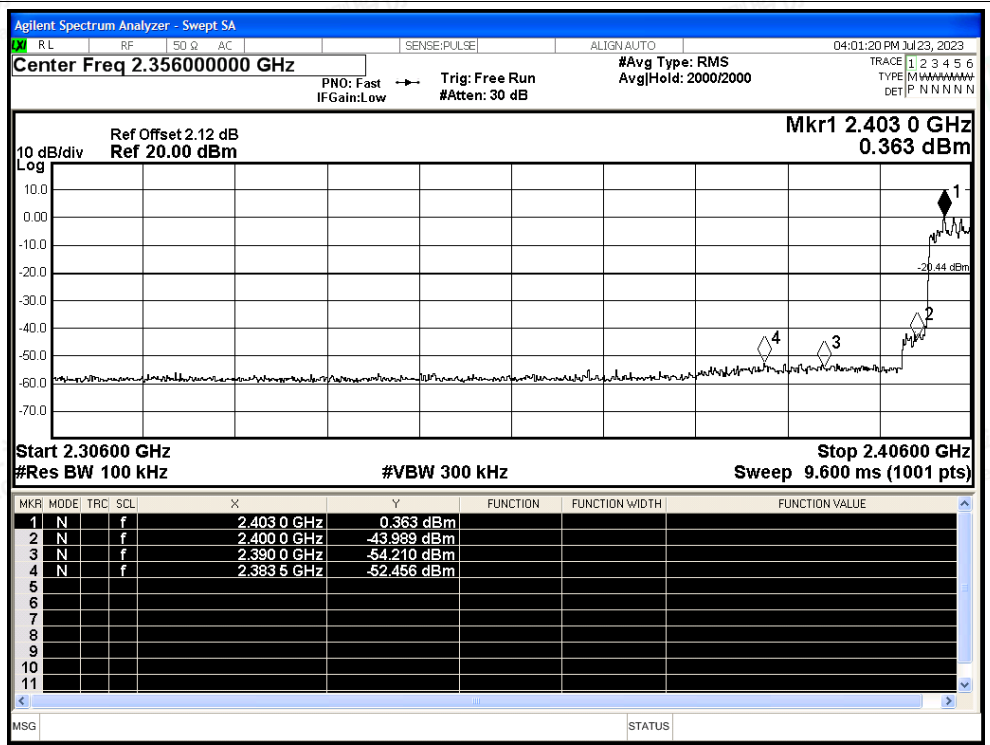




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

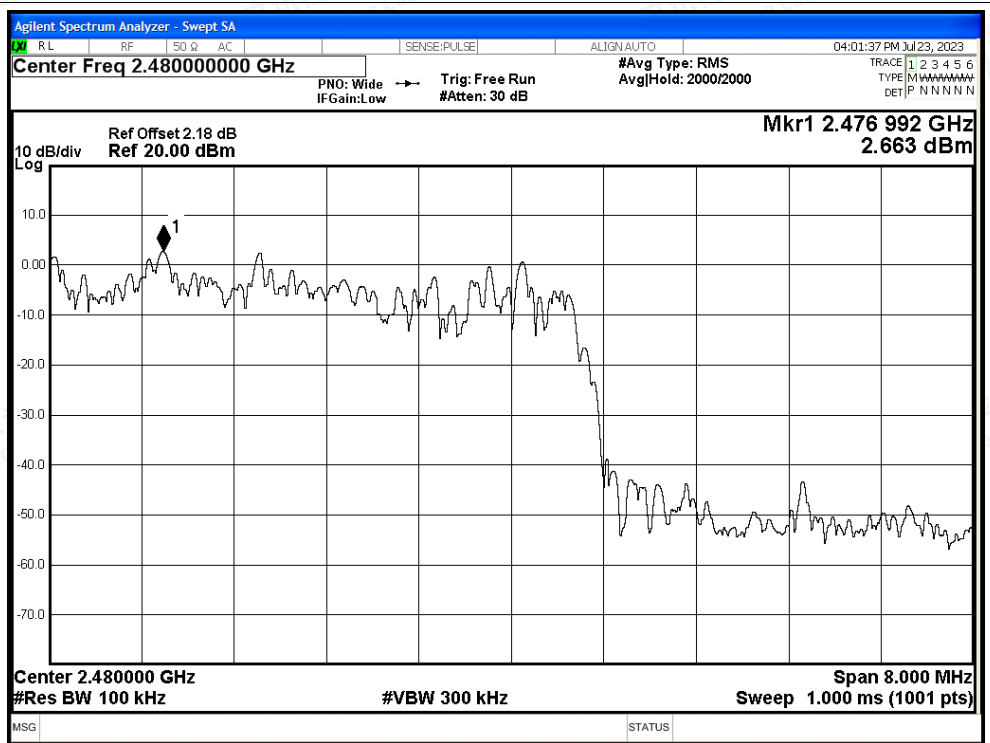


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

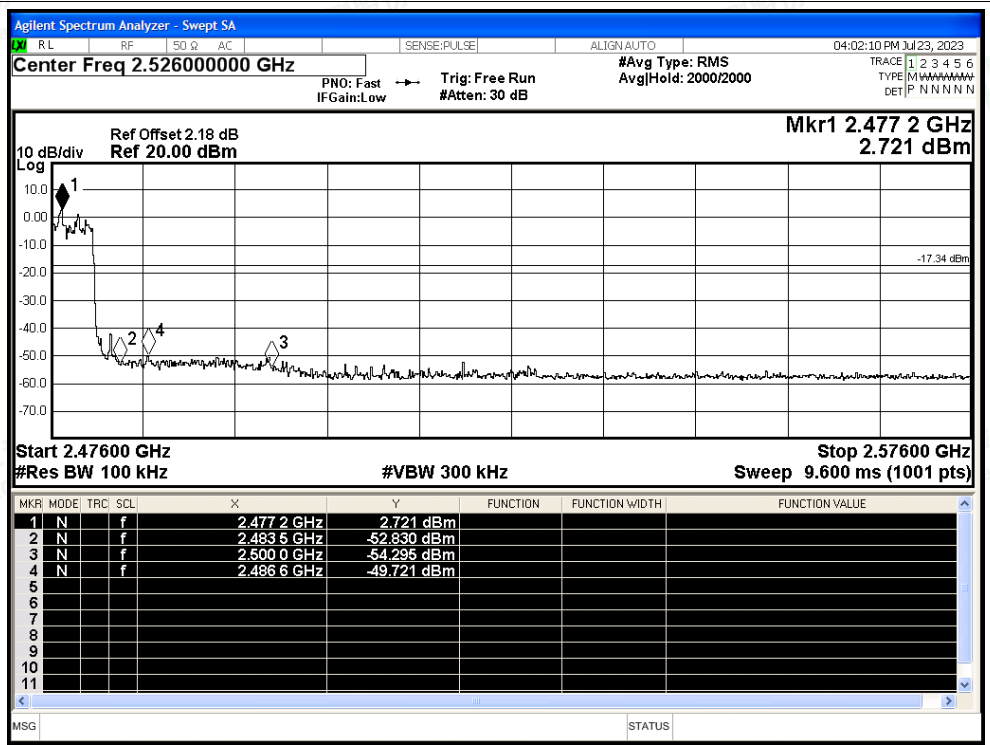




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-44.44	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.86	-20	Pass
NVNT	1-DH5	2480	Ant1	-44.5	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.24	-20	Pass
NVNT	2-DH5	2441	Ant1	-44.11	-20	Pass
NVNT	2-DH5	2480	Ant1	-44.38	-20	Pass
NVNT	3-DH5	2402	Ant1	-44.38	-20	Pass
NVNT	3-DH5	2441	Ant1	-44.51	-20	Pass
NVNT	3-DH5	2480	Ant1	-44.72	-20	Pass

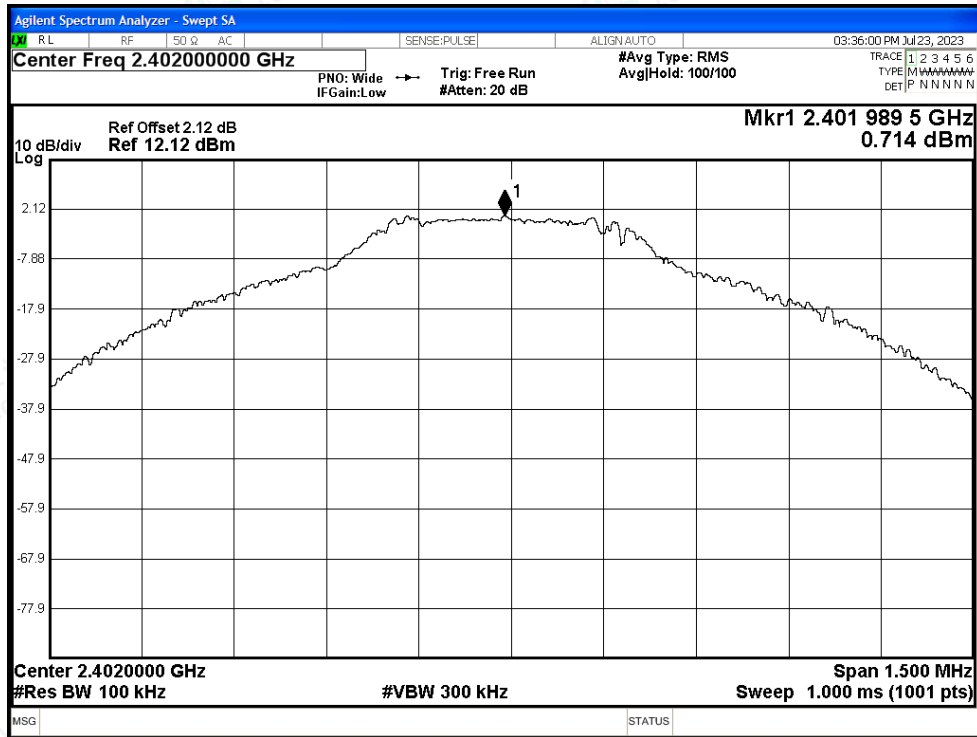


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

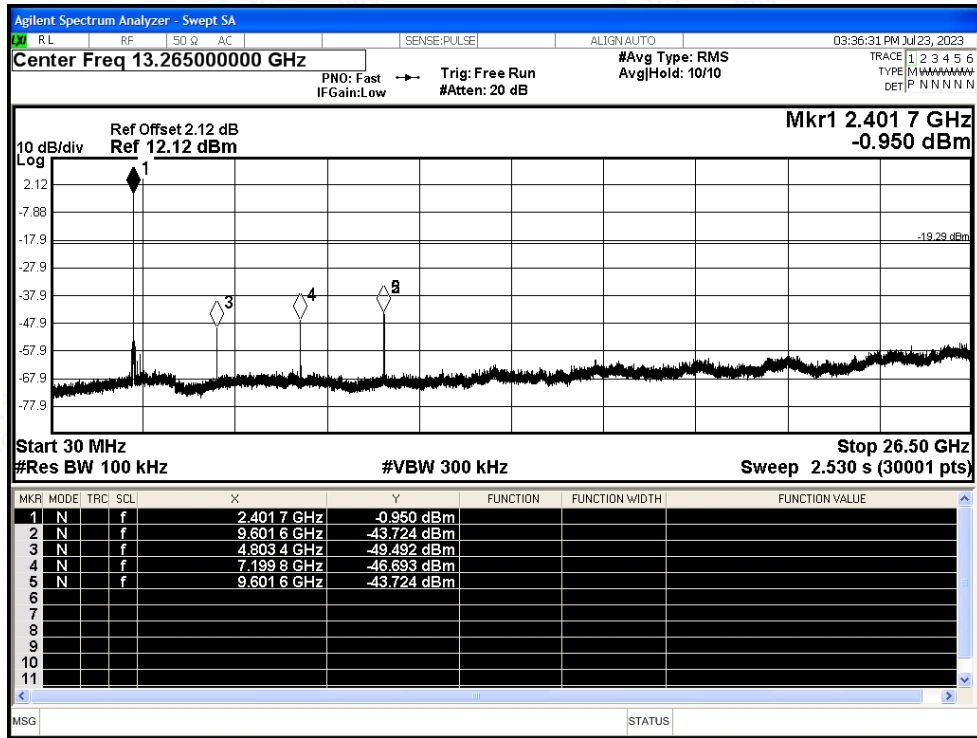


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



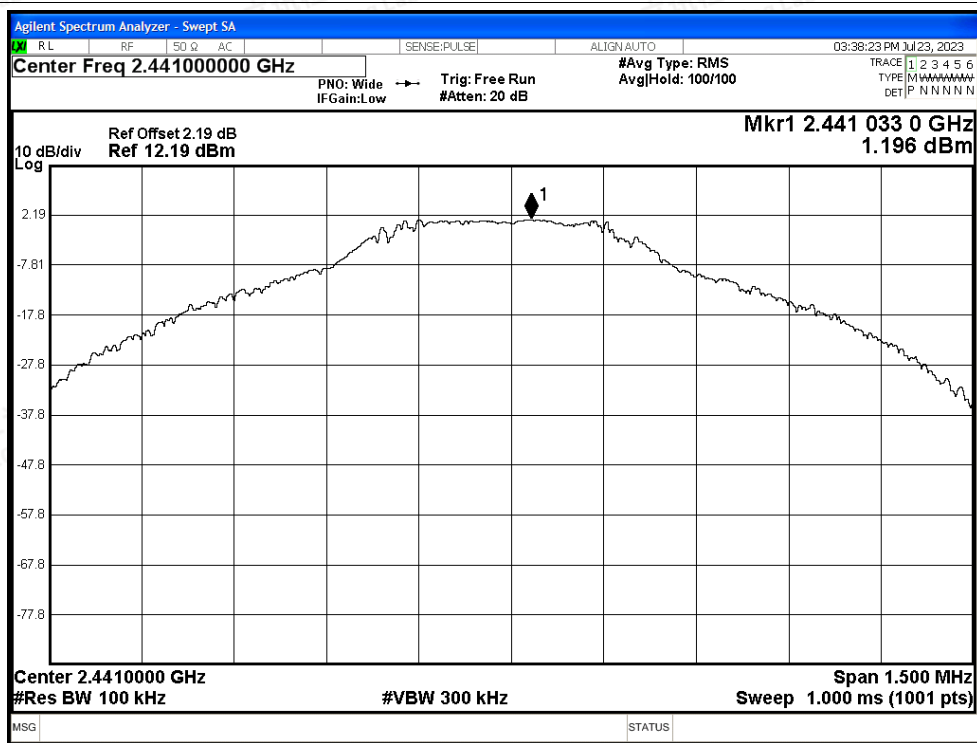
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



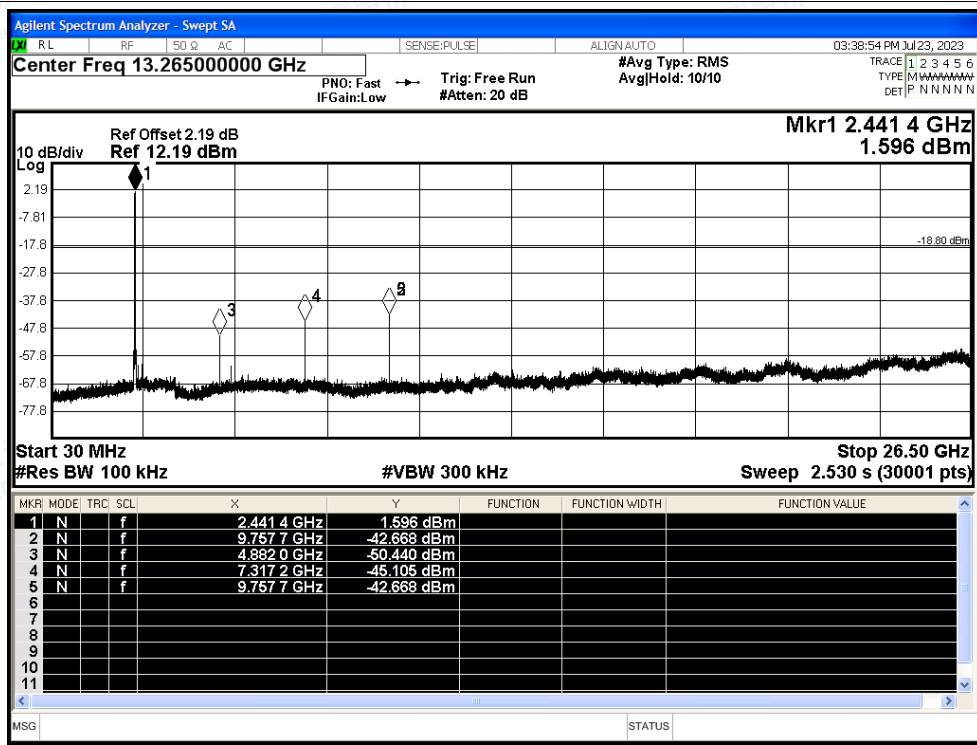
Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

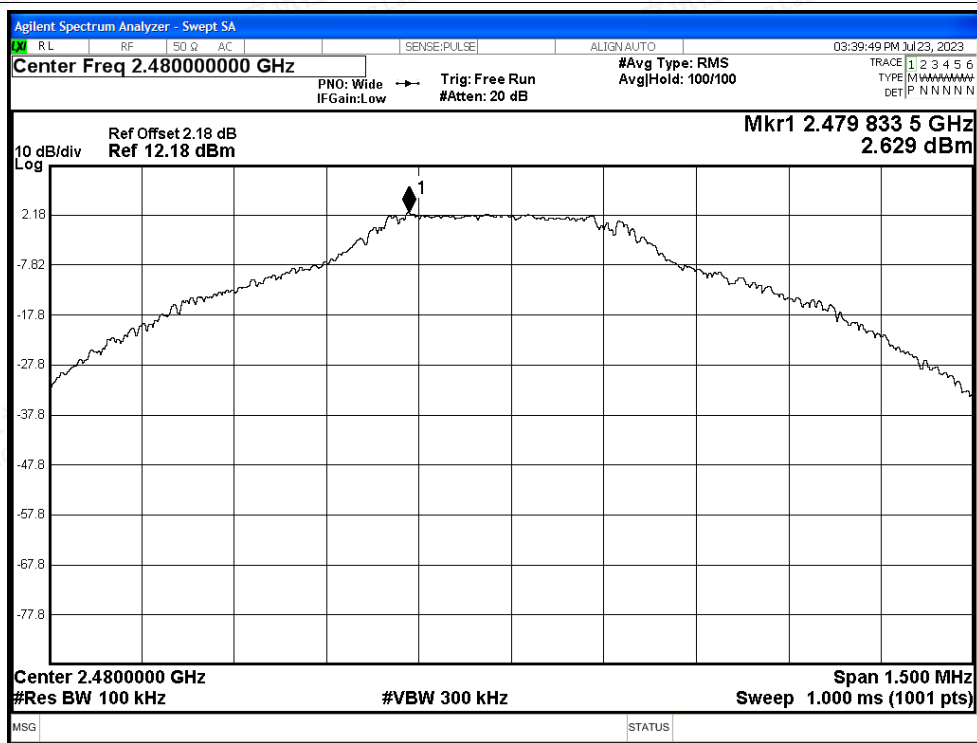


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

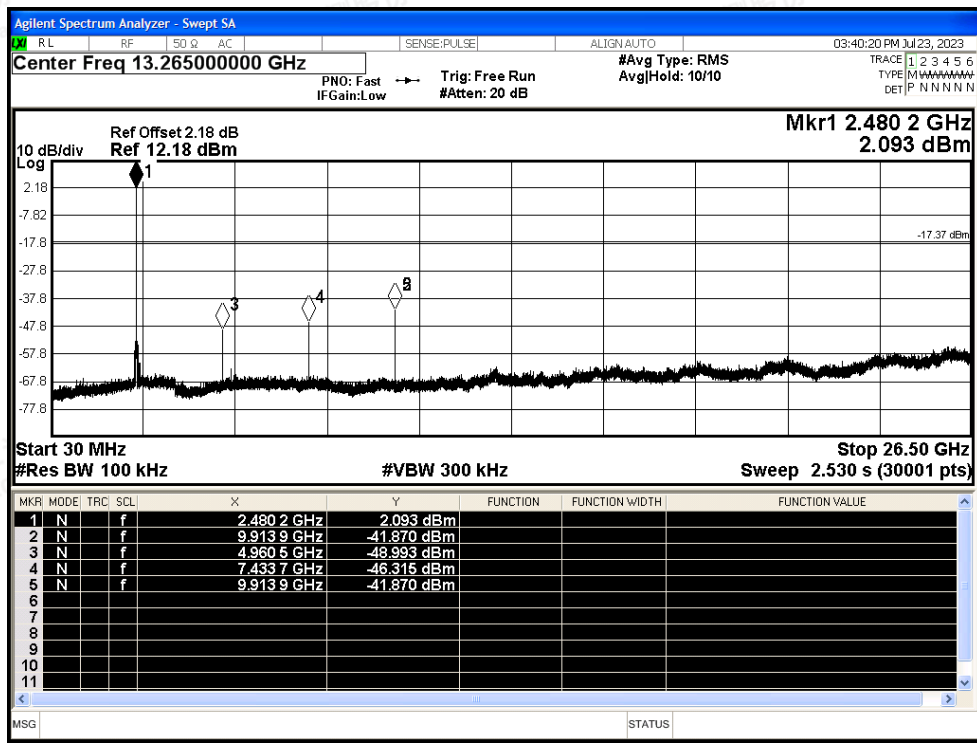




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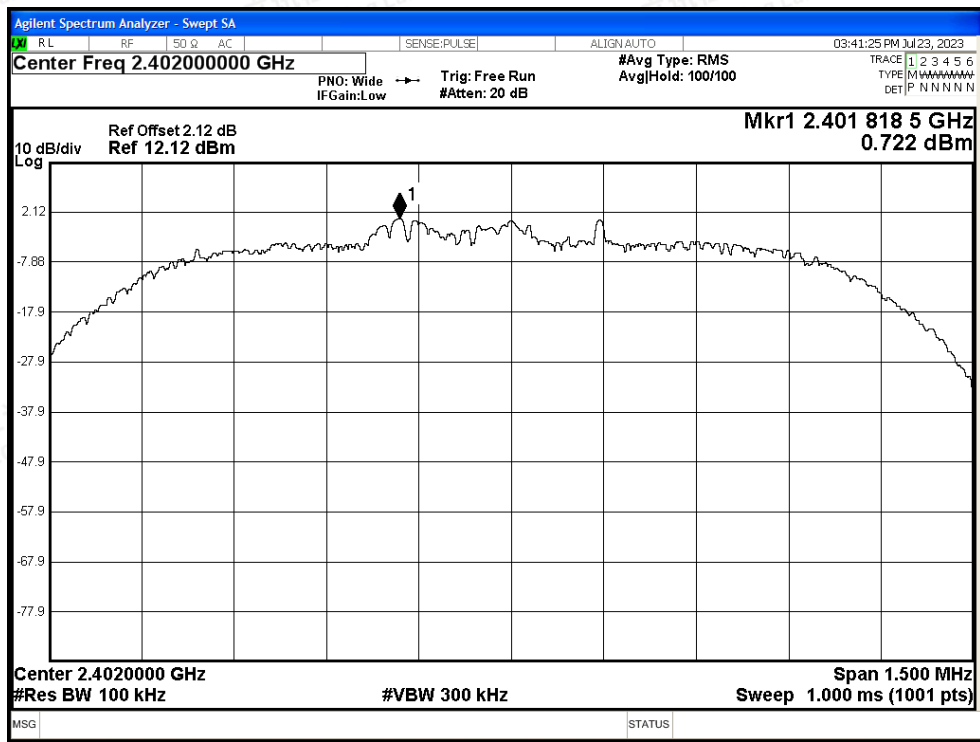


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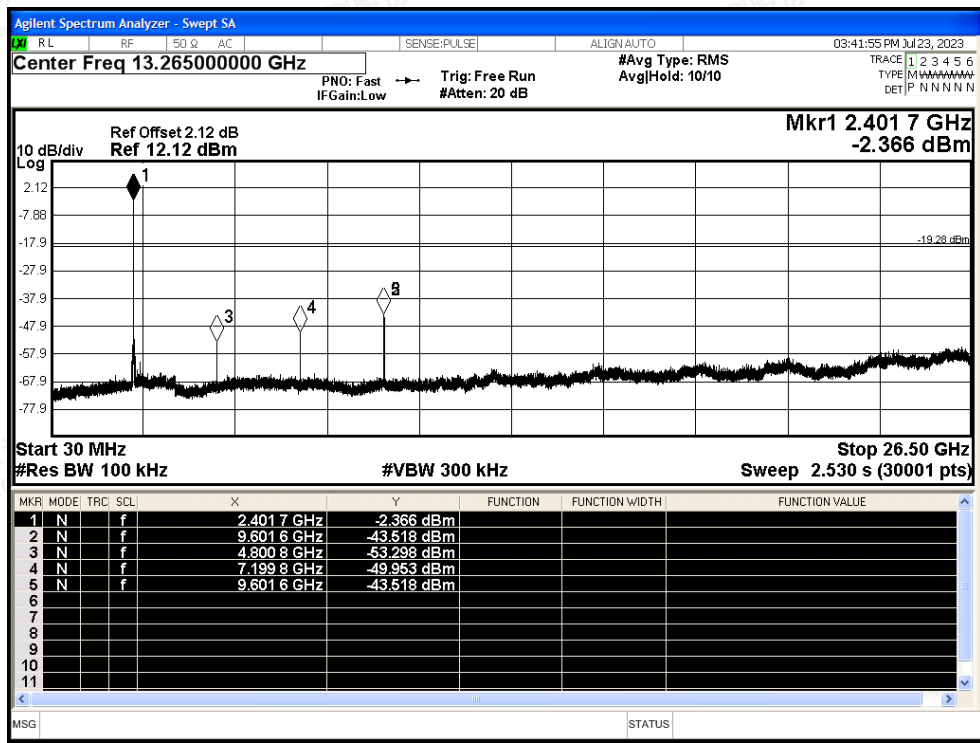




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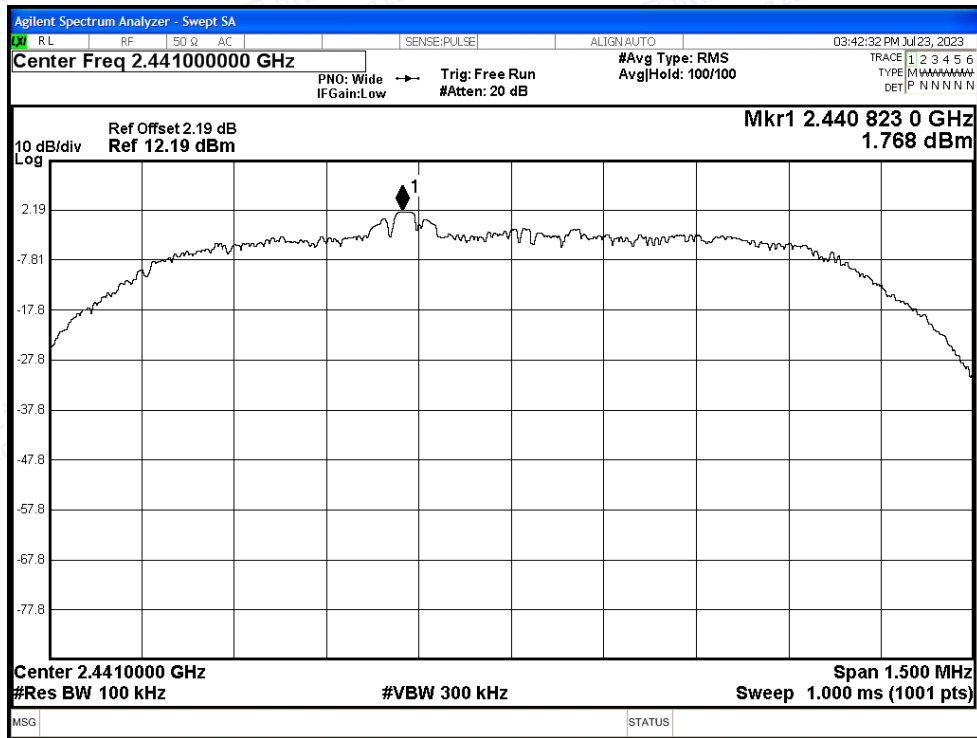


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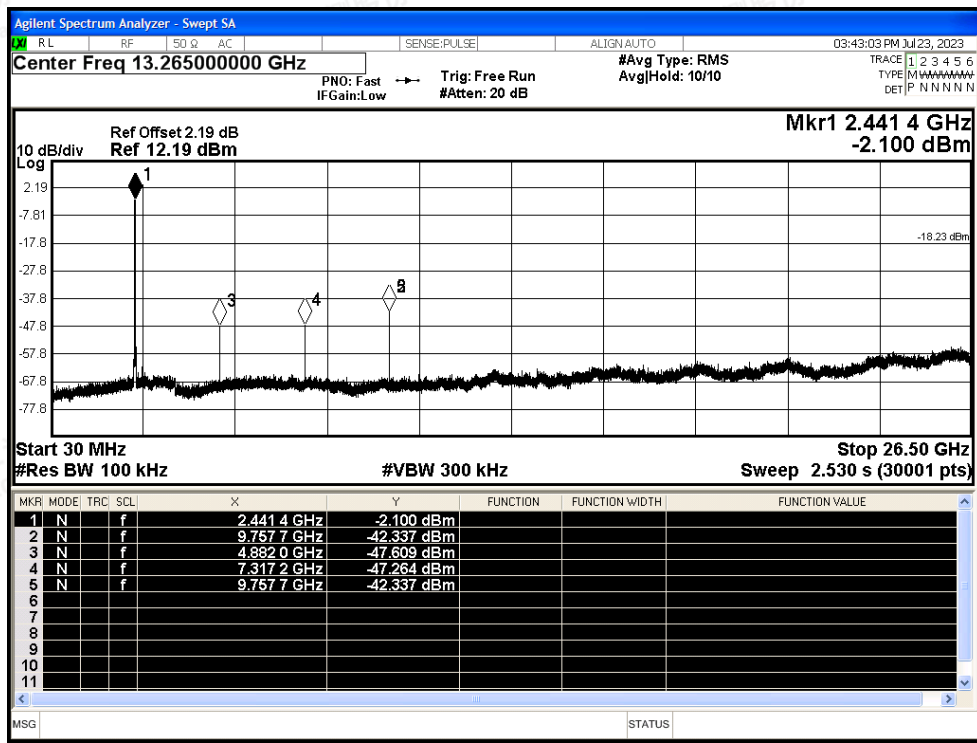




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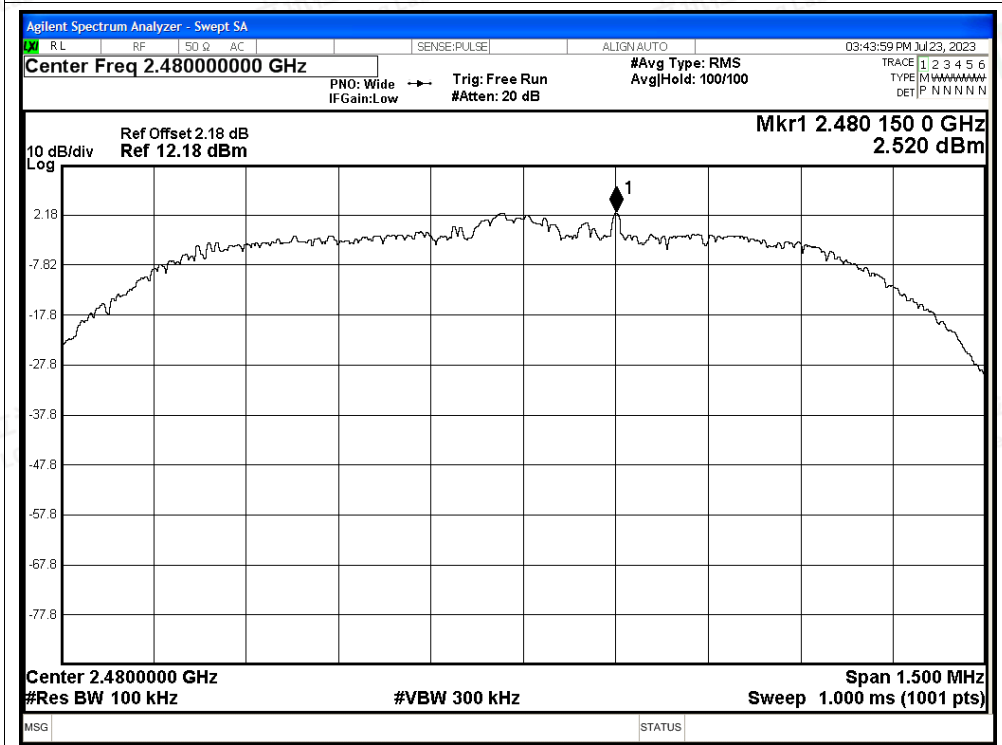


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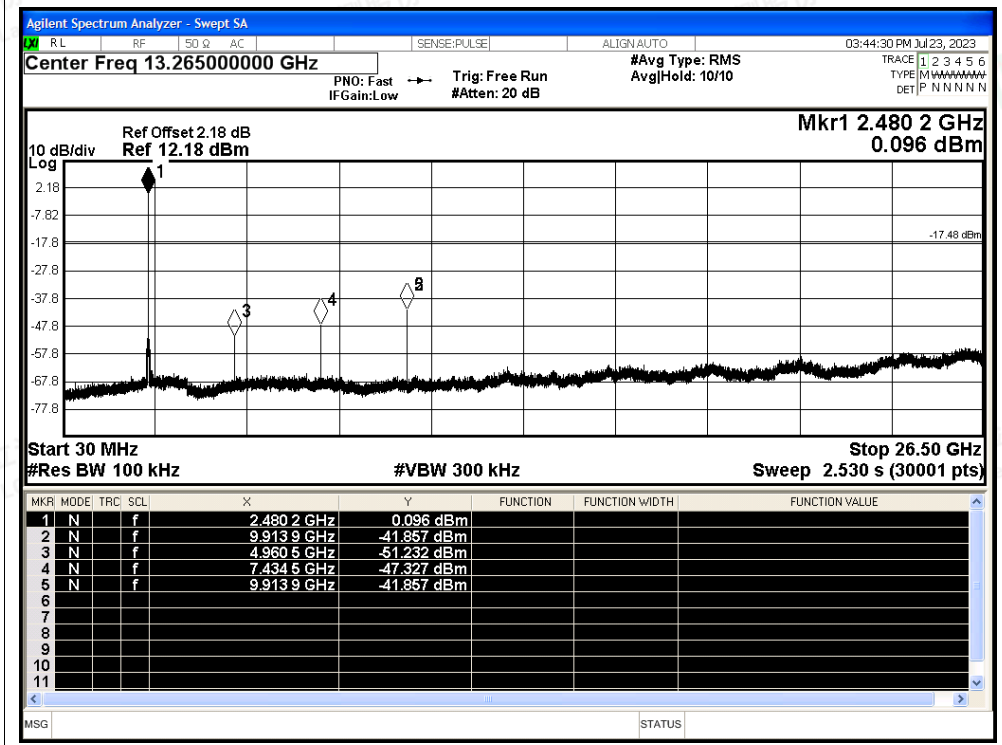




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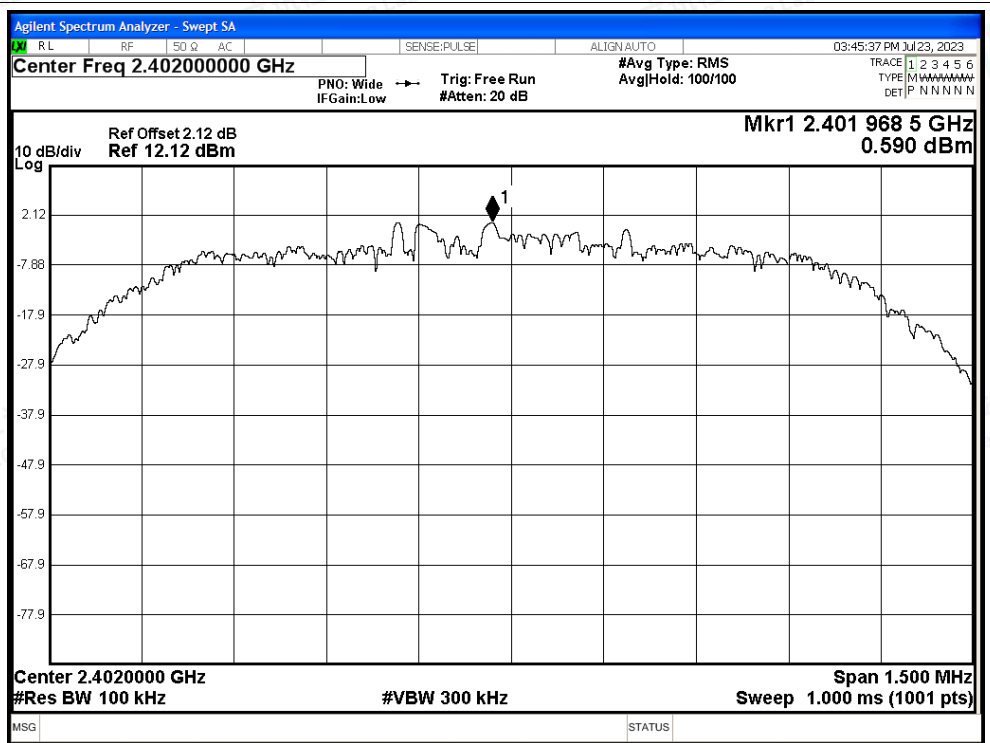


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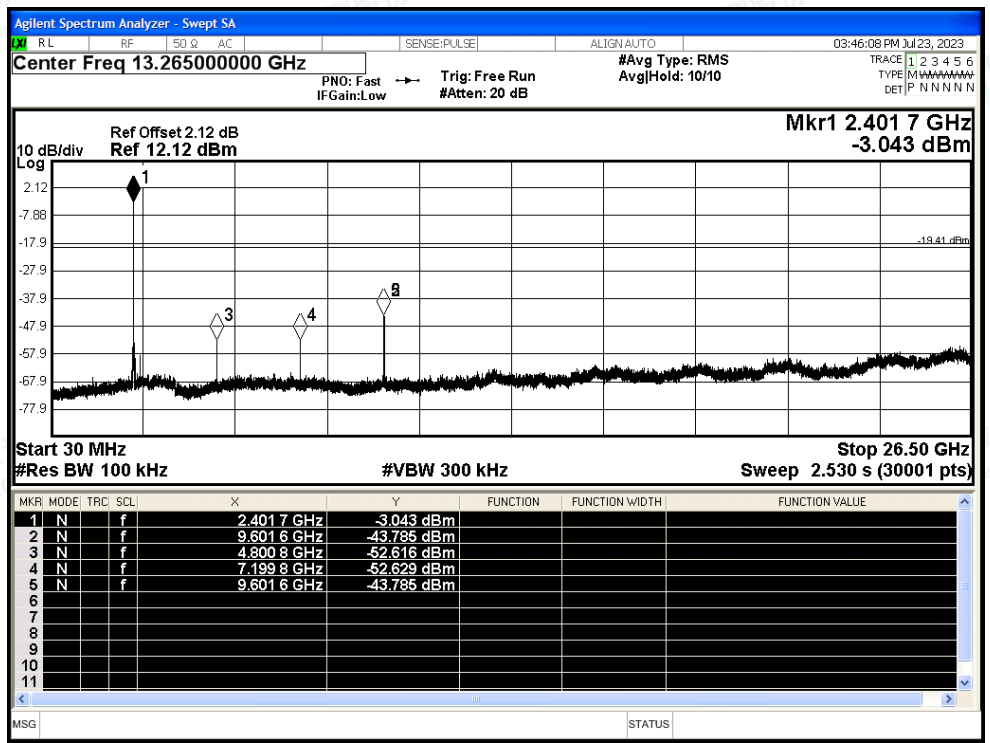




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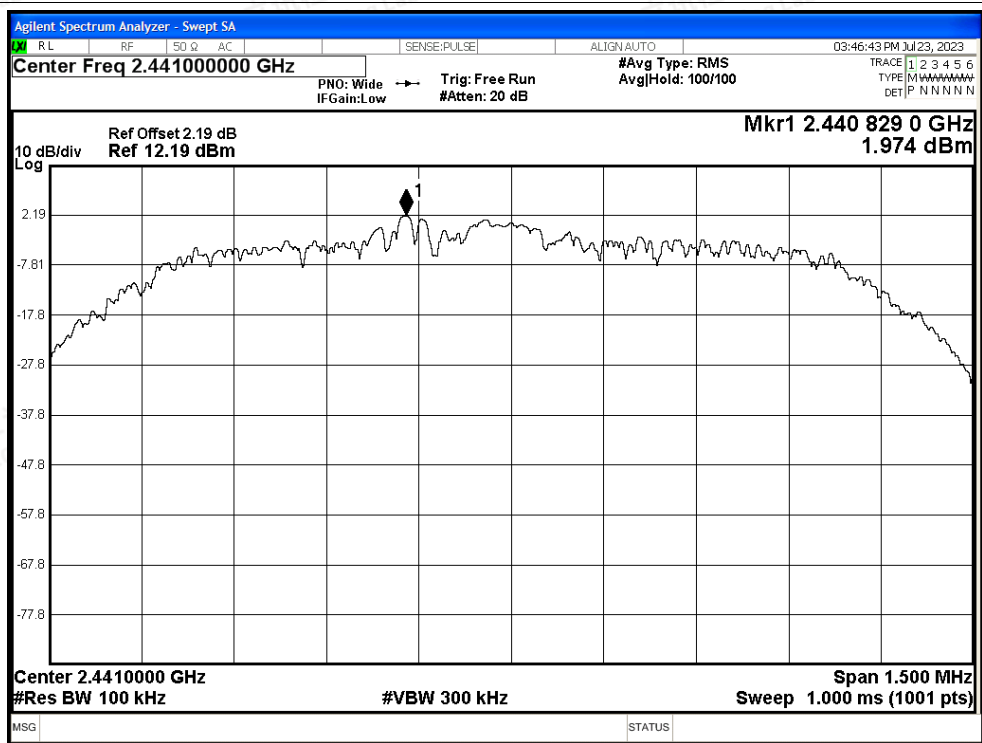


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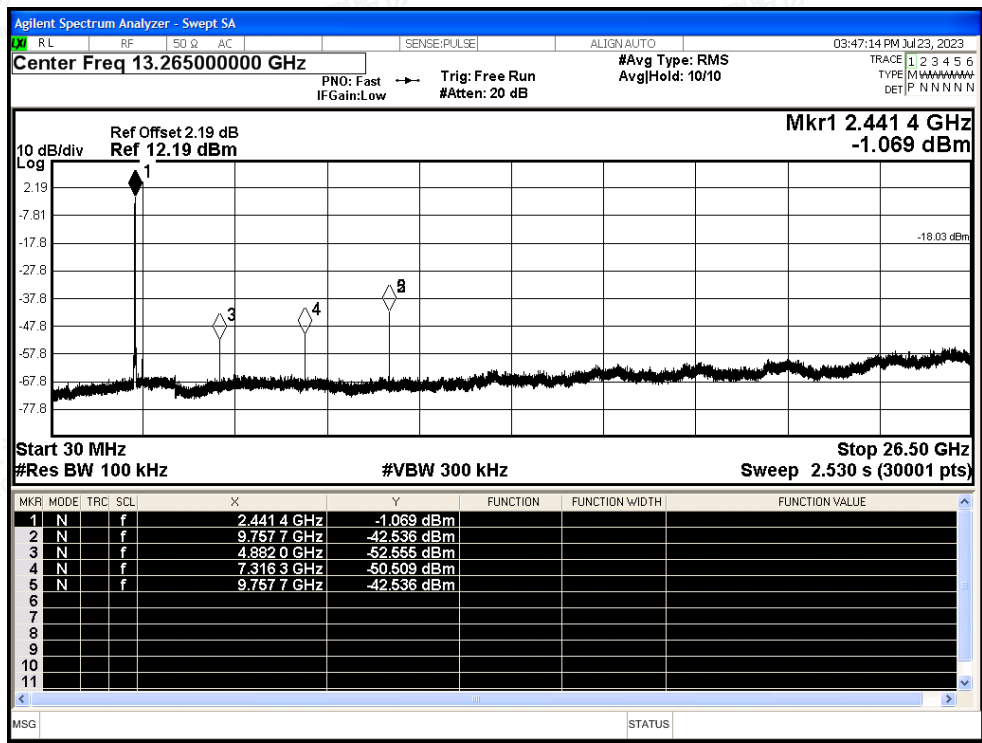




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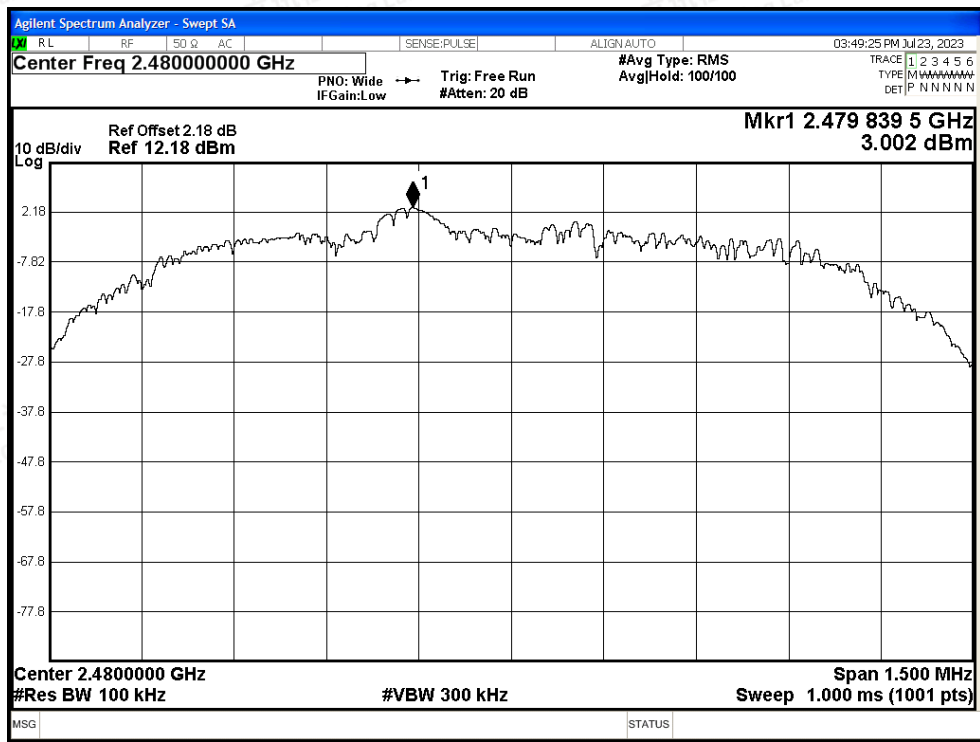


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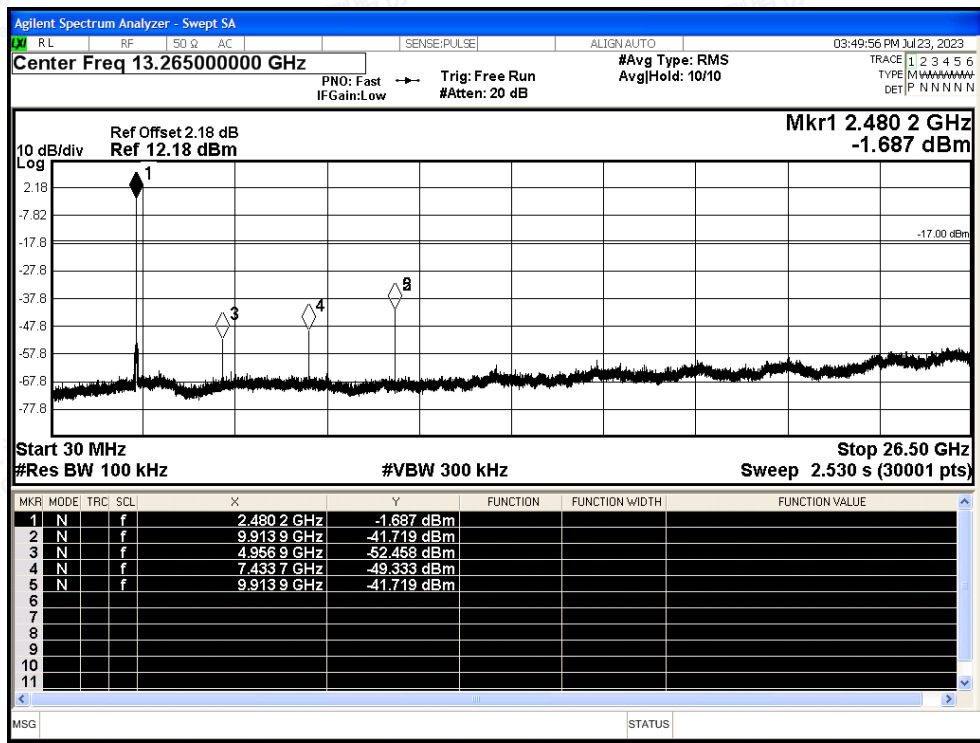




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.5	2.22	46.98	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.86	2.22	39.62	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.4	-42.78	2.22	54.70	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.792	-52.09	2.22	45.39	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-46.78	2.22	50.70	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-53.96	2.22	43.52	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-39.14	2.22	58.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-44.85	2.22	52.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.92	-39.07	2.22	58.41	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-44.85	2.22	52.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-41.62	2.22	55.86	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.54	2.22	46.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.15	2.22	46.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.94	2.22	39.54	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.096	-43.44	2.22	54.04	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.408	-52.11	2.22	45.37	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-46.41	2.22	51.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-53.98	2.22	43.50	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-38.93	2.22	58.55	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.02	2.22	50.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.304	-38.48	2.22	59.00	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-47.02	2.22	50.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-43.84	2.22	53.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.24	2.22	47.24	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.28	2.22	47.20	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.91	2.22	39.57	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.952	-43.96	2.22	53.52	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2381.232	-52.51	2.22	44.97	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-48.64	2.22	48.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-54.89	2.22	42.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-41.38	2.22	56.10	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.61	2.22	47.87	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-41.38	2.22	56.10	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-49.6	2.22	47.88	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-47.89	2.22	49.59	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-53.57	2.22	43.91	Average	54	Pass

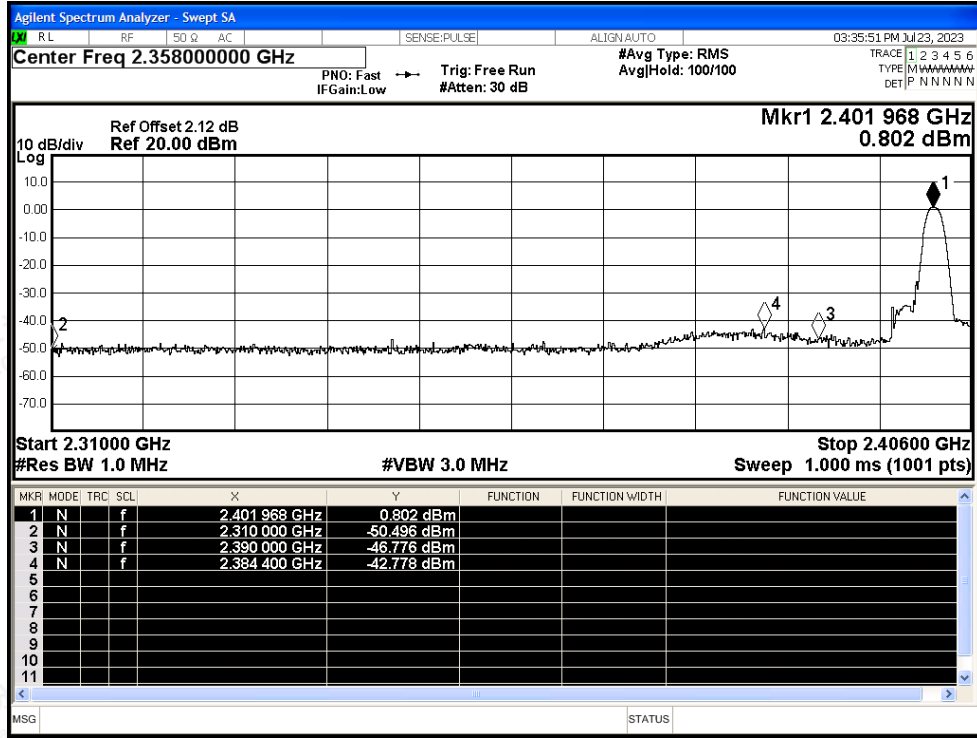


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 Scan code to check authenticity

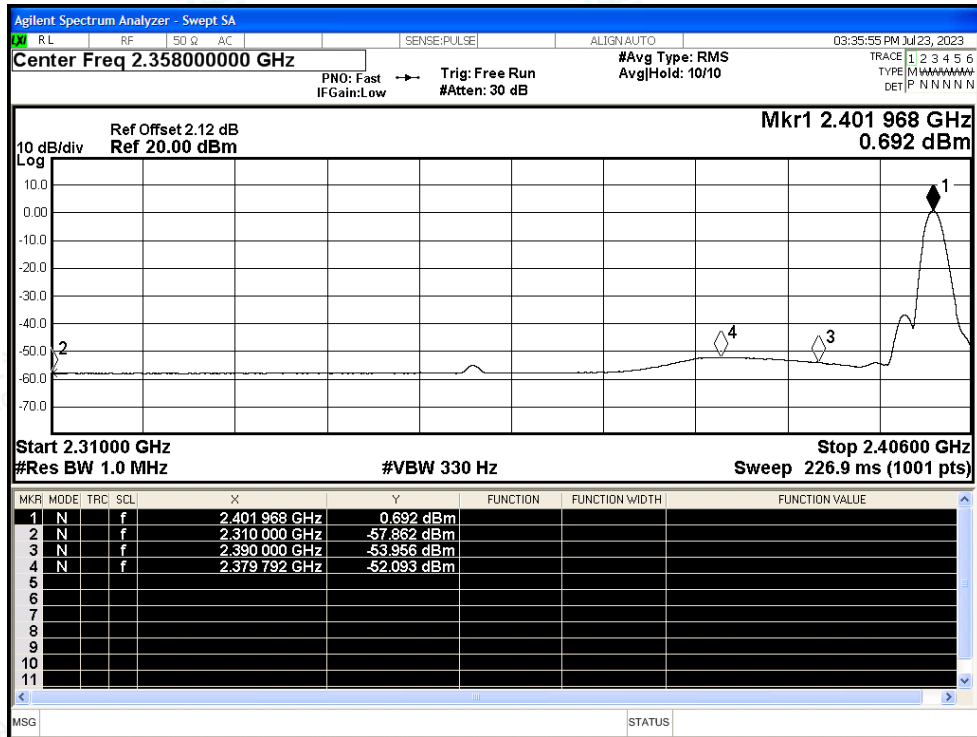


Test Graphs

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

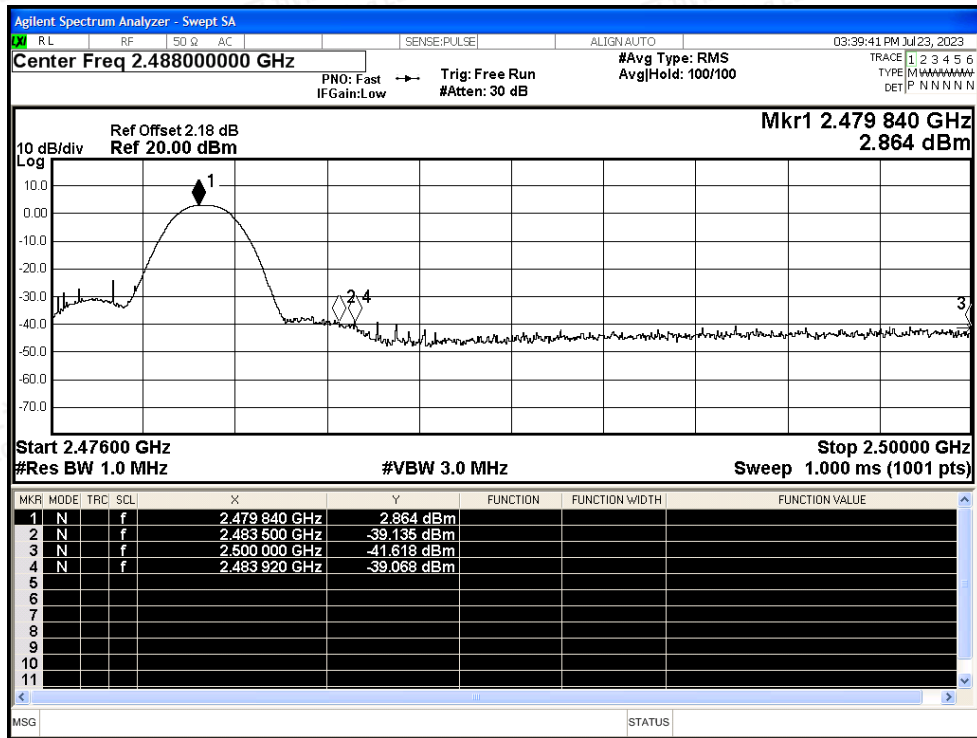


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

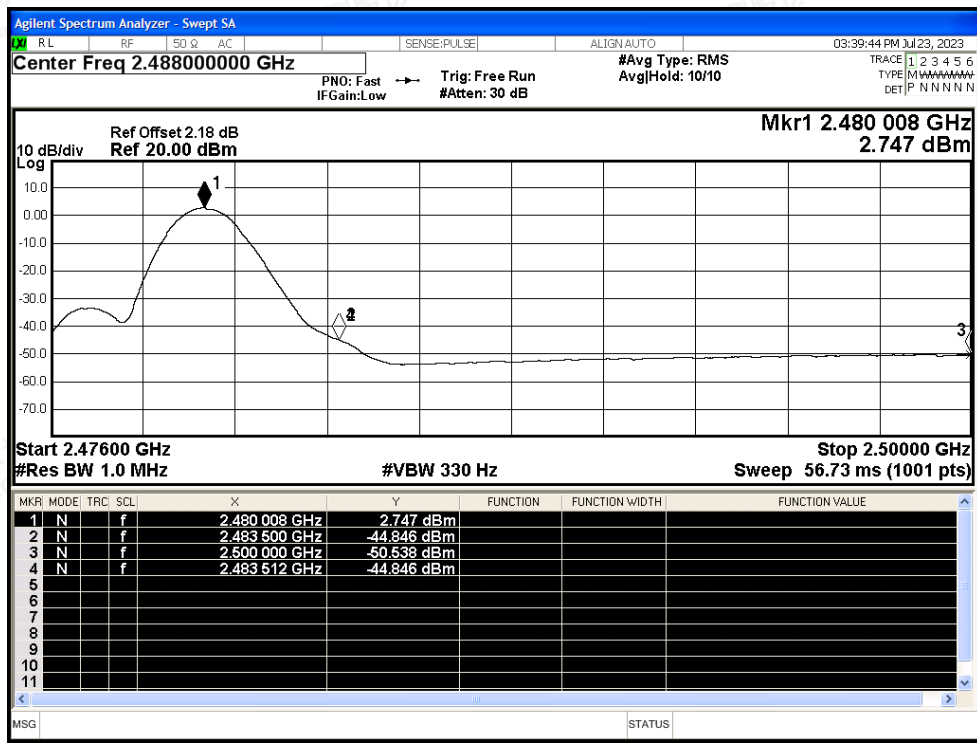




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

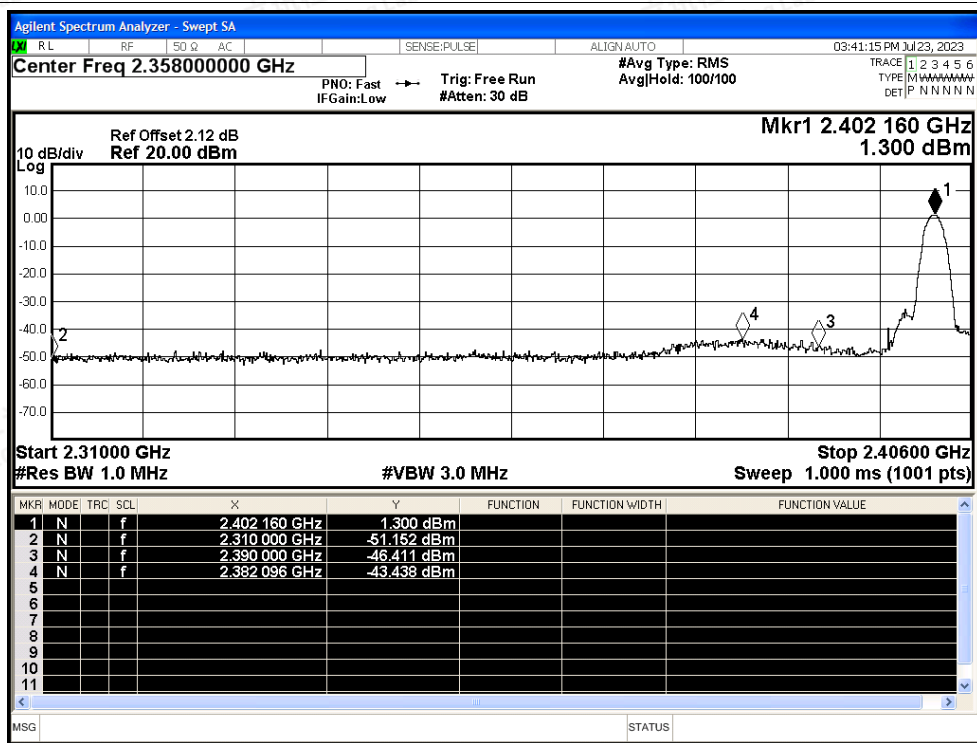


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

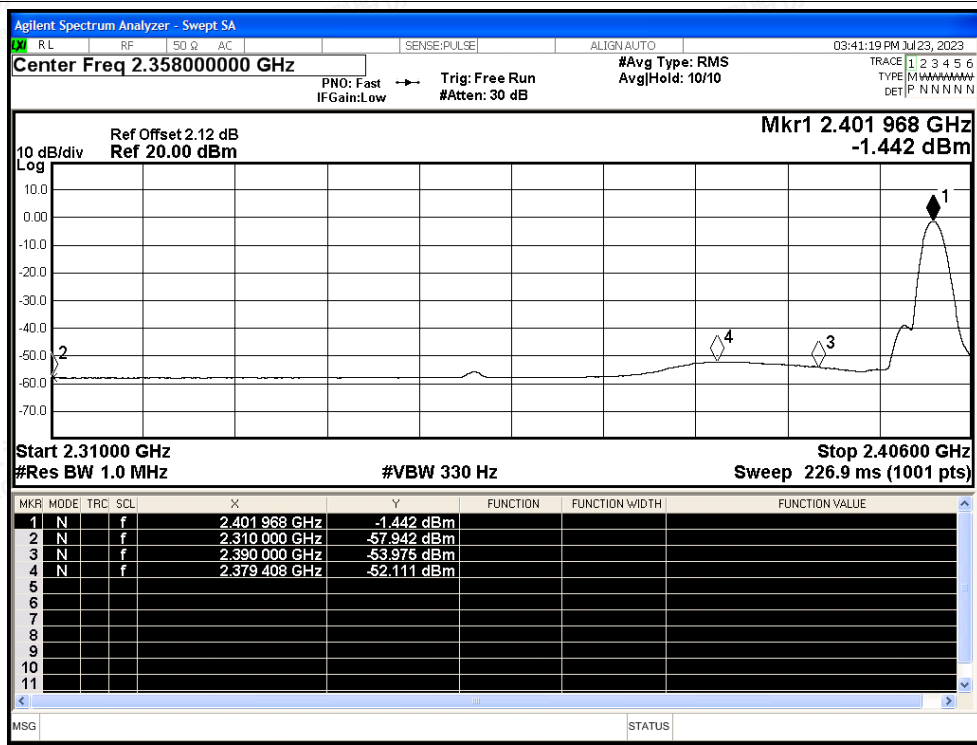




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

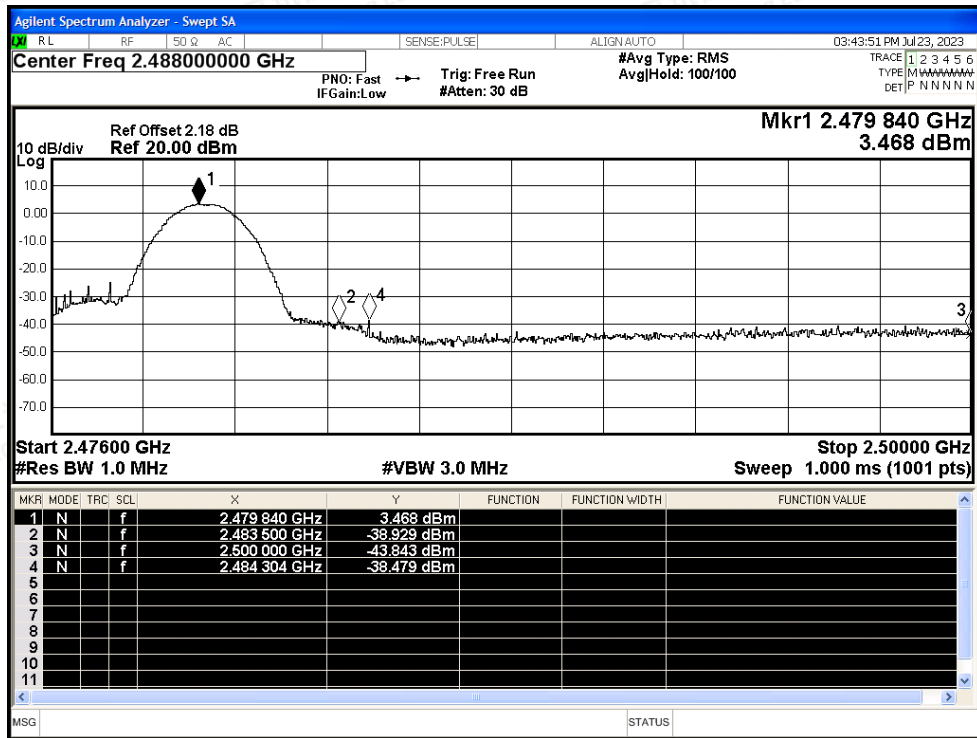


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

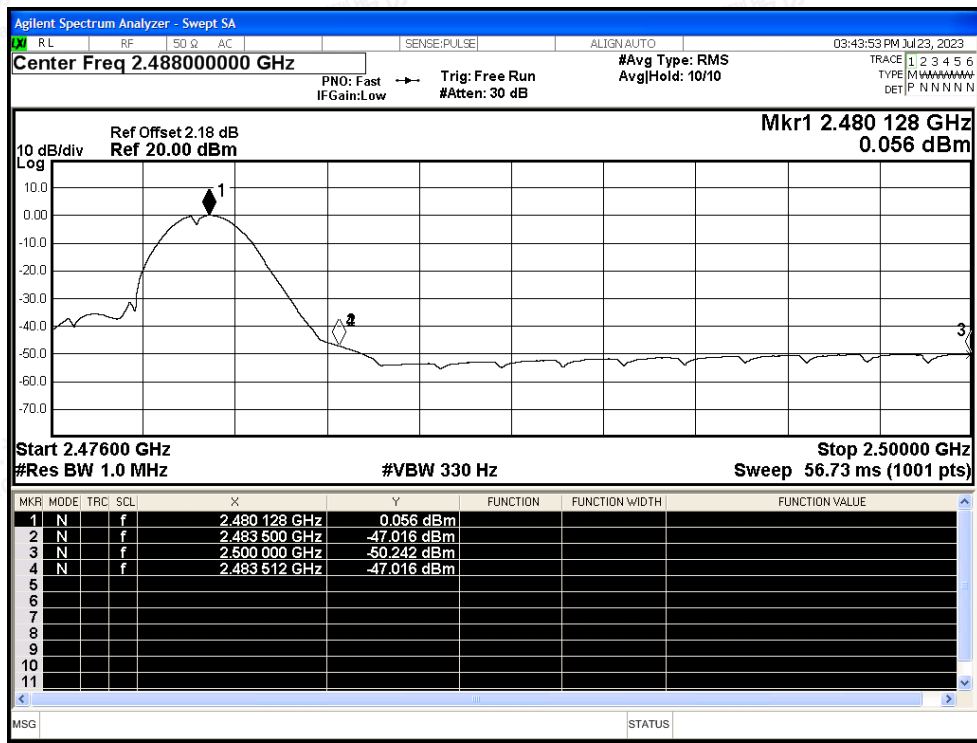




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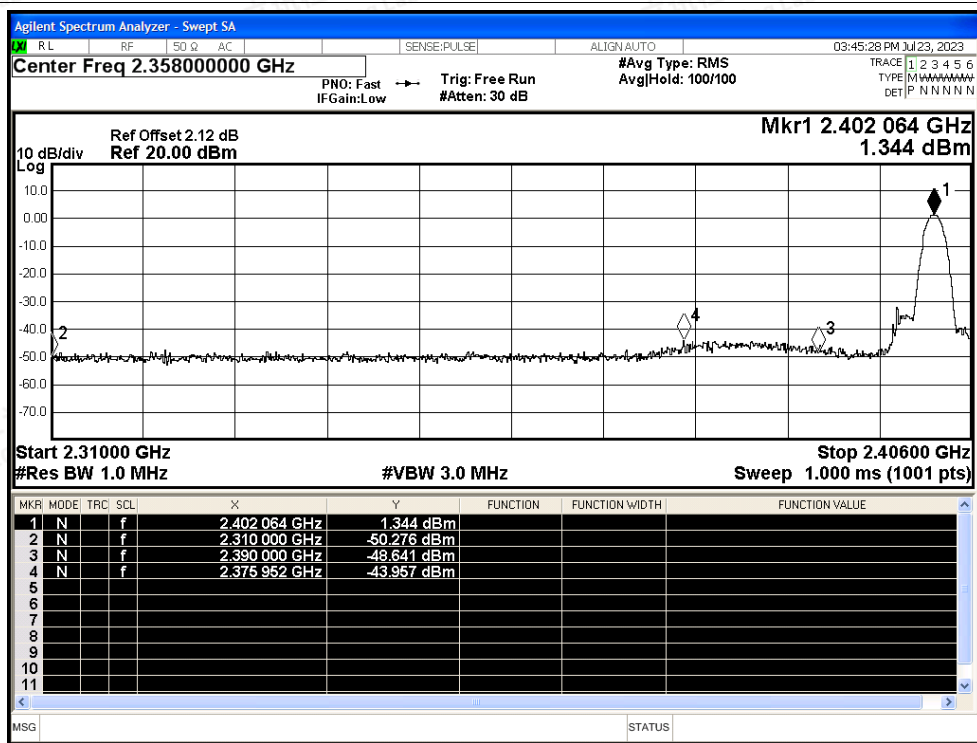


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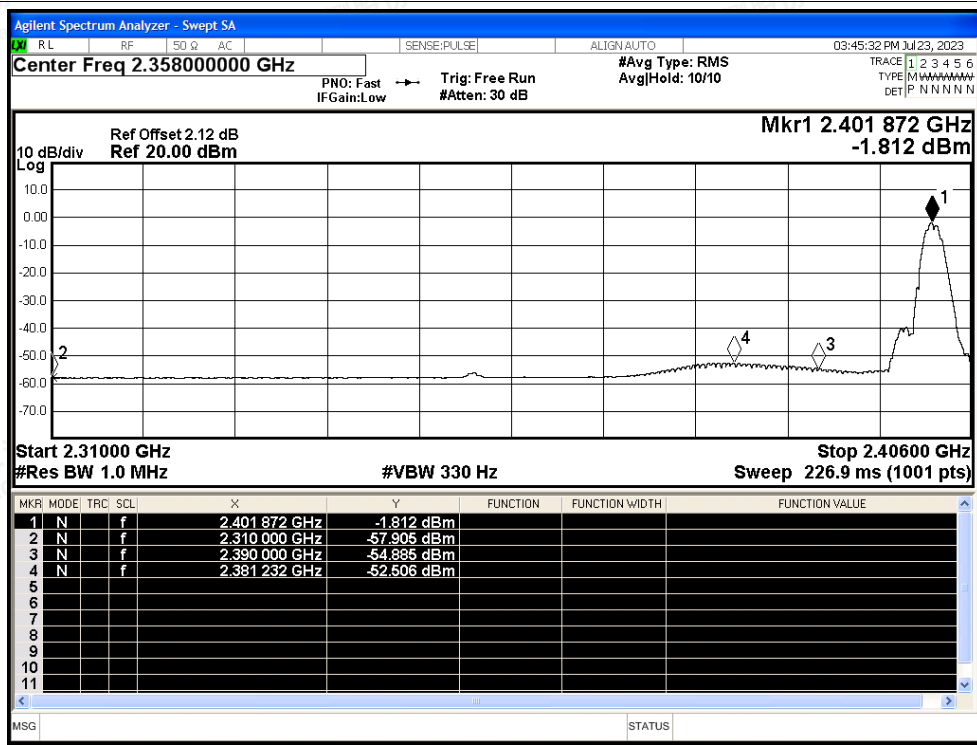




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

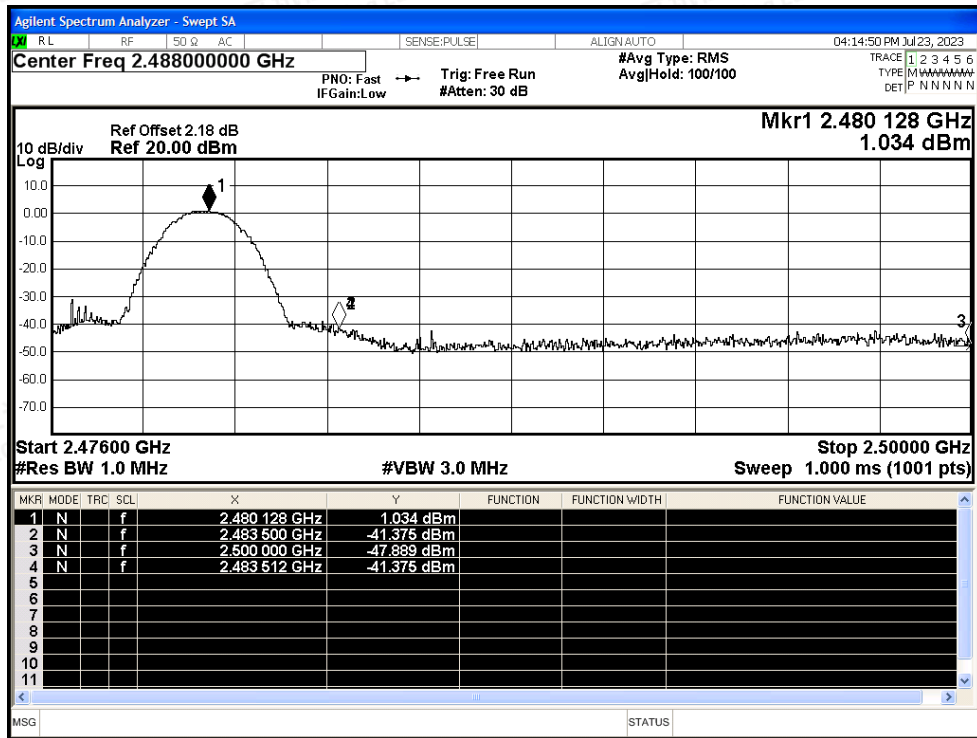


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

