



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Headset

Test Model: YCQ-GR

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Joker Hu
Supervised by:	 Li Huan





A.1 -20dB Bandwidth

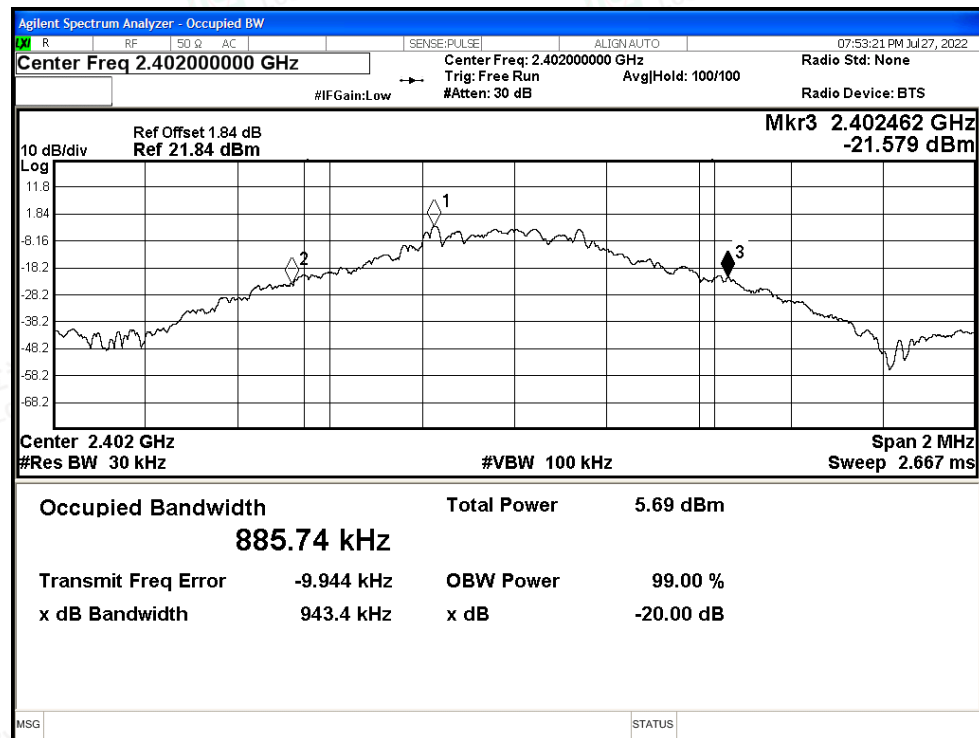
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.943	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.956	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.94	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.273	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.304	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.311	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.313	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.296	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

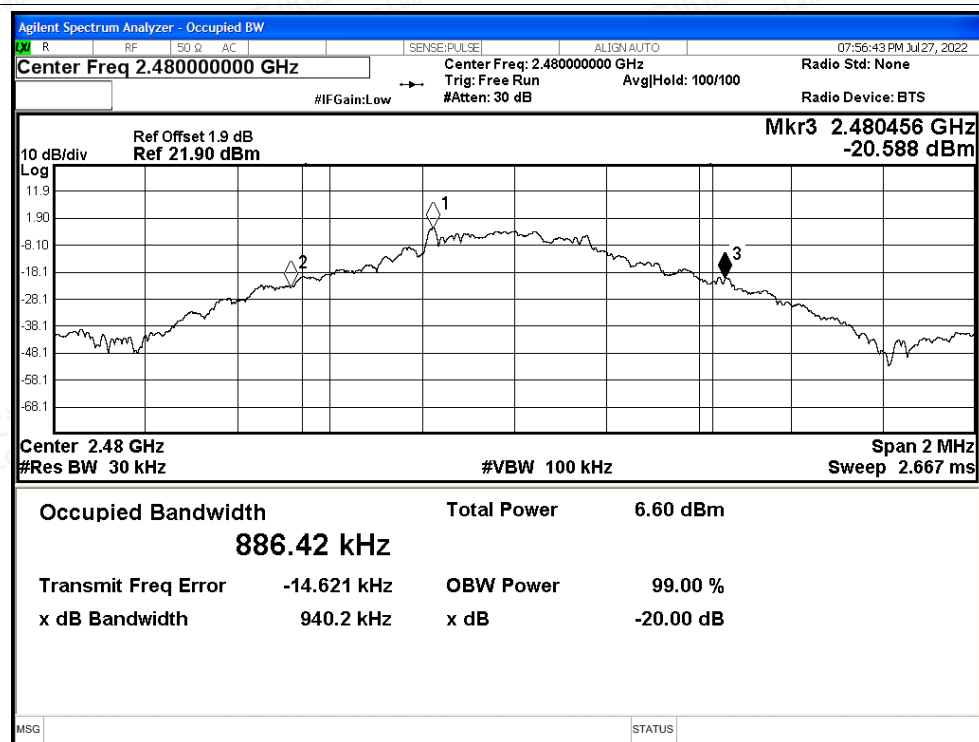


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

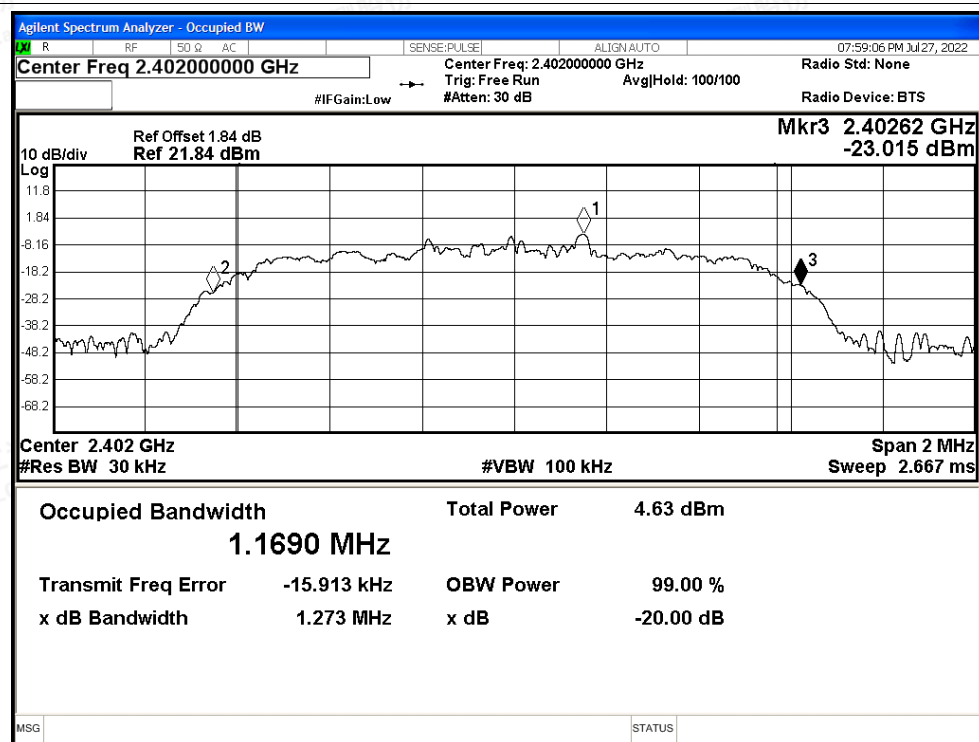




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

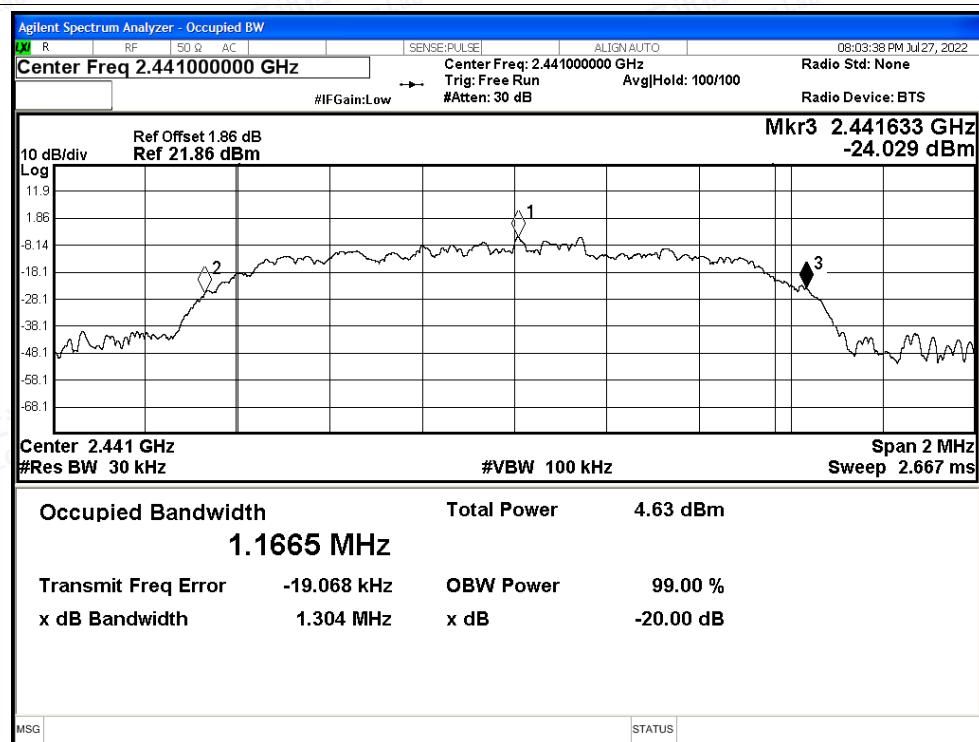


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

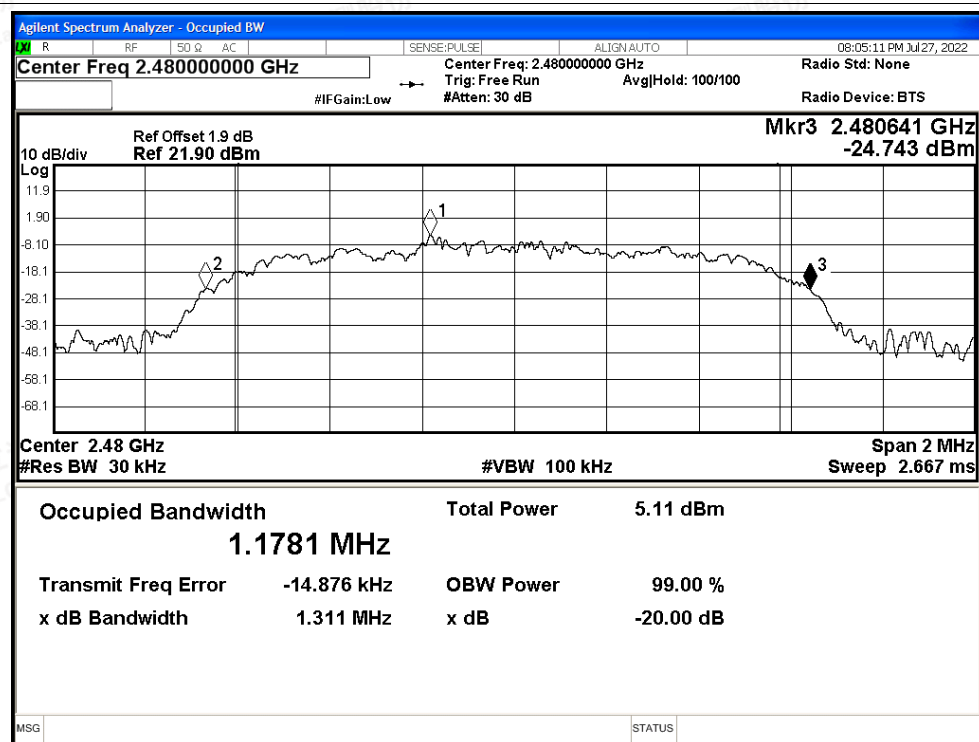




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

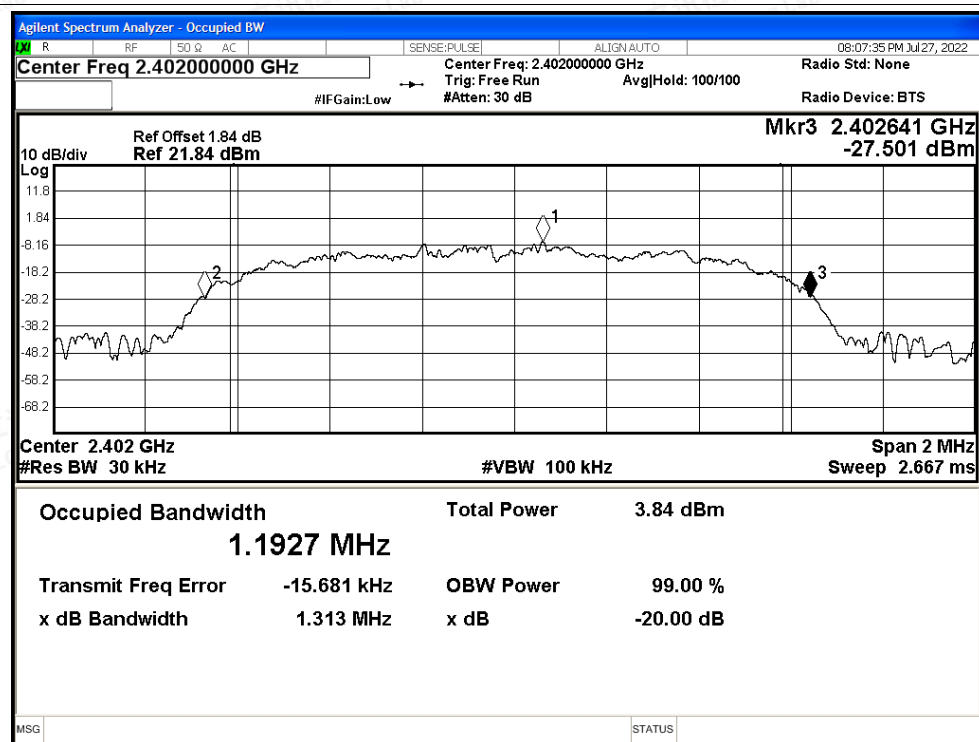


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

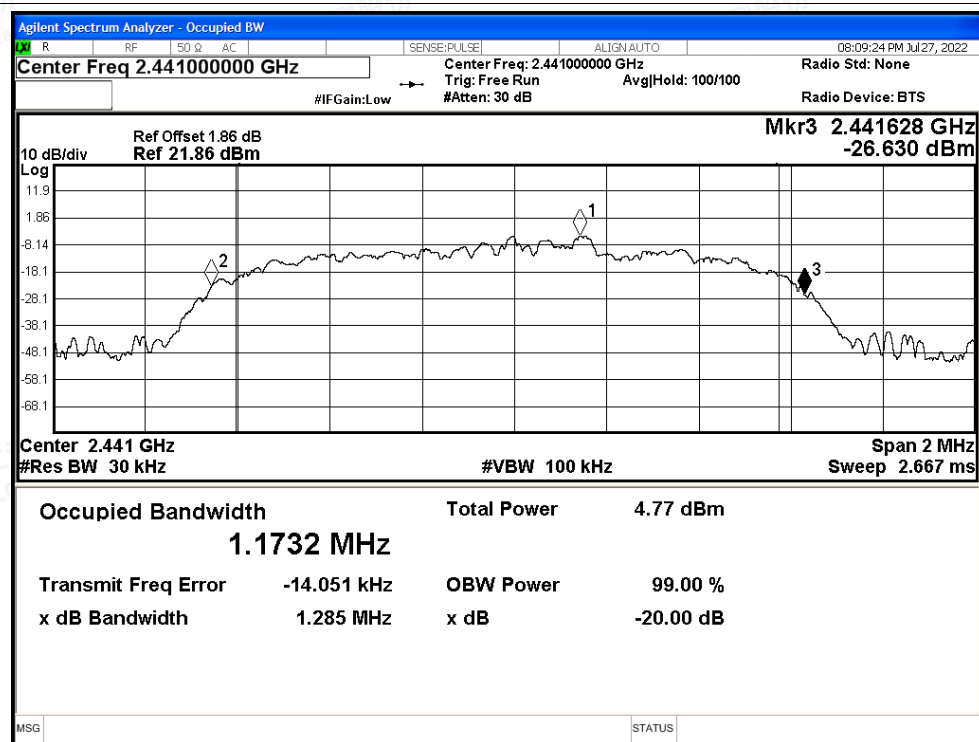




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

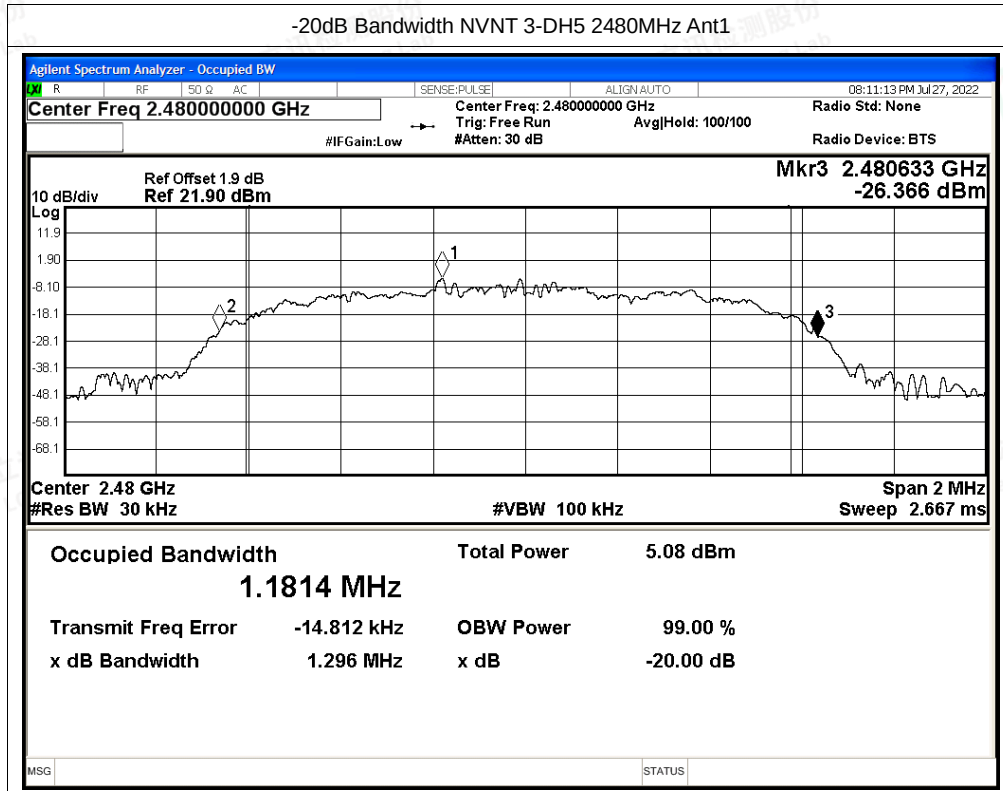


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A.2 Maximum Peak Conducted Output Power

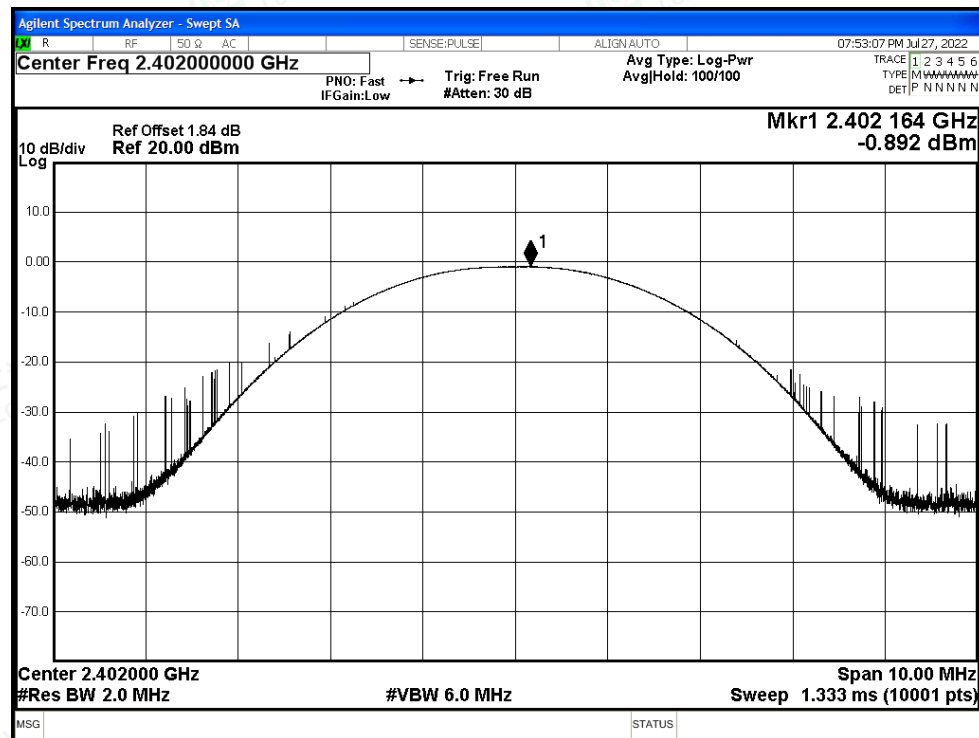
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.89	21	Pass
NVNT	1-DH5	2441	Ant1	-0.75	21	Pass
NVNT	1-DH5	2480	Ant1	-0.03	21	Pass
NVNT	2-DH5	2402	Ant1	-0.25	21	Pass
NVNT	2-DH5	2441	Ant1	-0.17	21	Pass
NVNT	2-DH5	2480	Ant1	0.66	21	Pass
NVNT	3-DH5	2402	Ant1	-0.19	21	Pass
NVNT	3-DH5	2441	Ant1	-0.03	21	Pass
NVNT	3-DH5	2480	Ant1	0.67	21	Pass



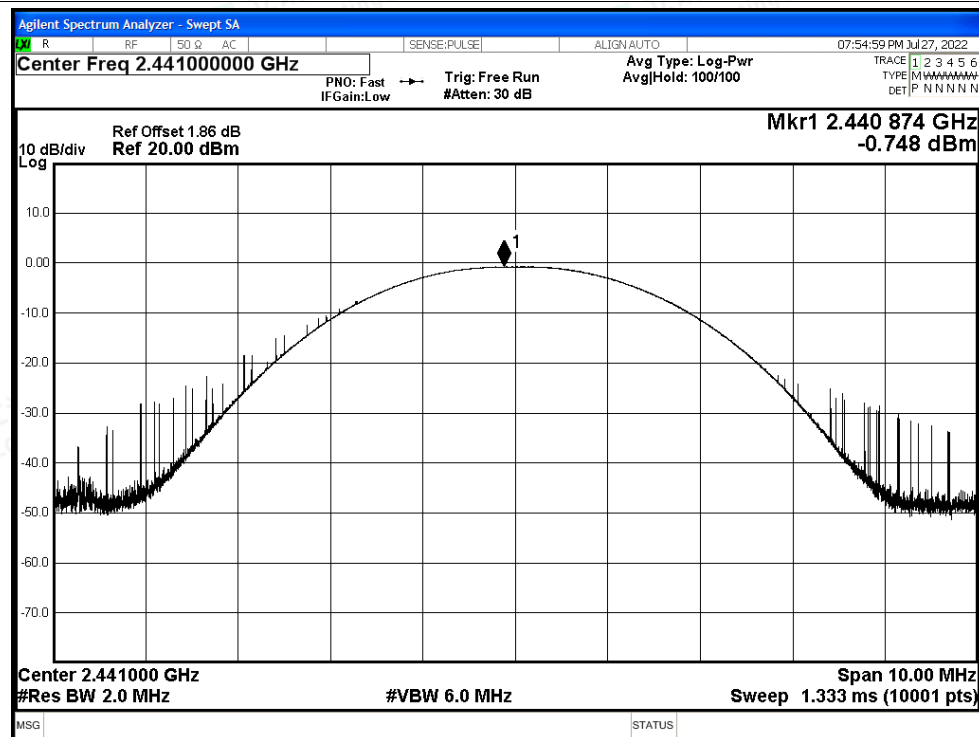


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

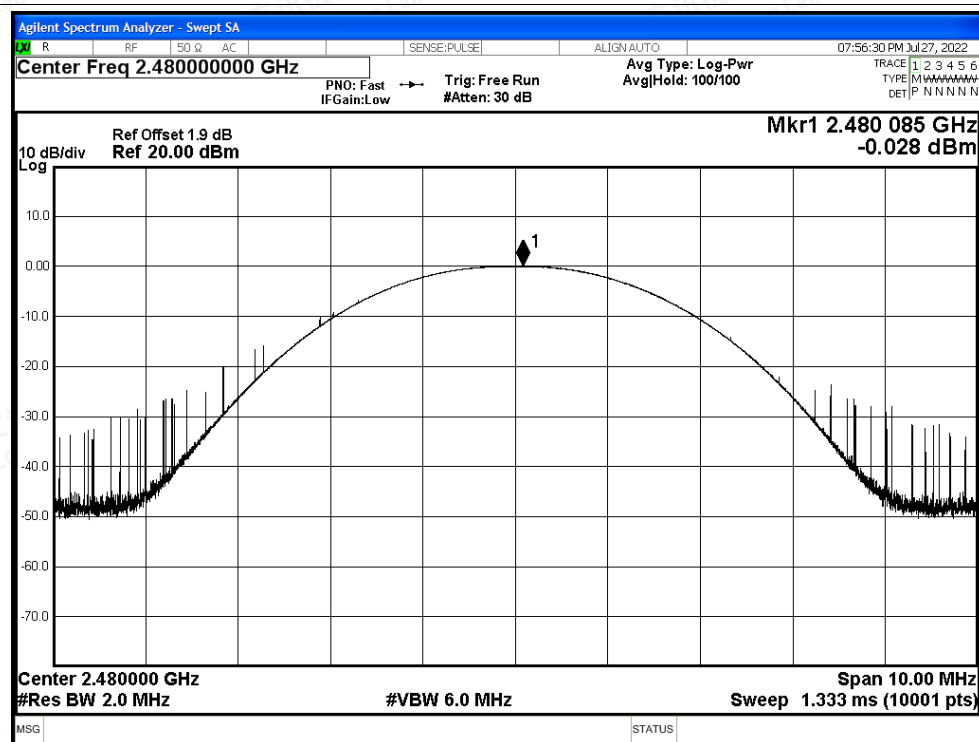


Power NVNT 1-DH5 2441MHz Ant1

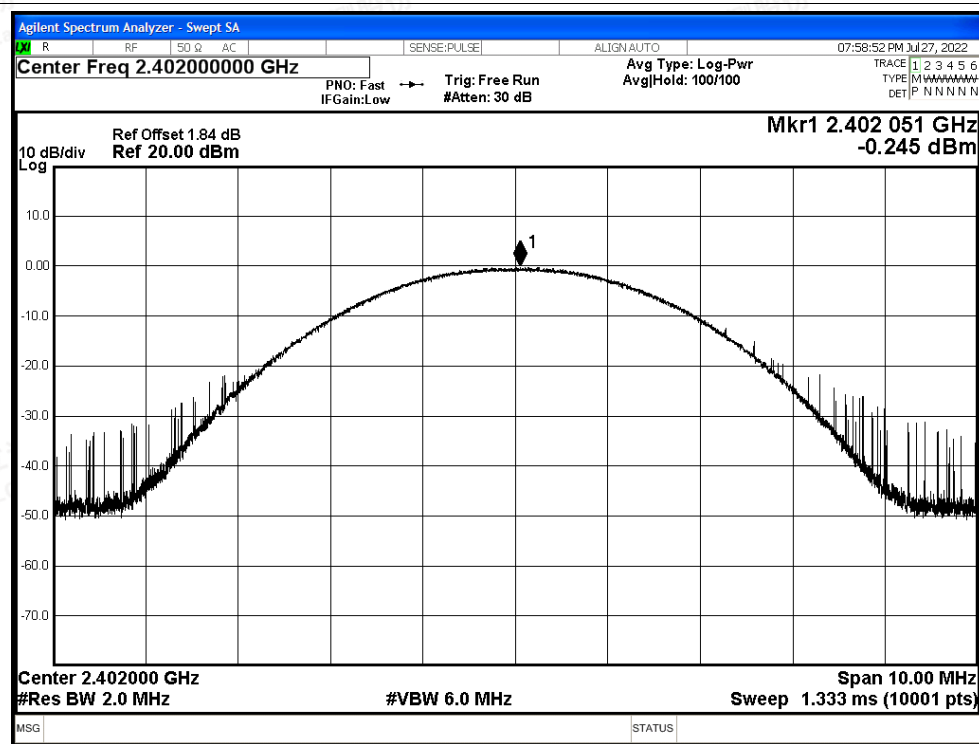


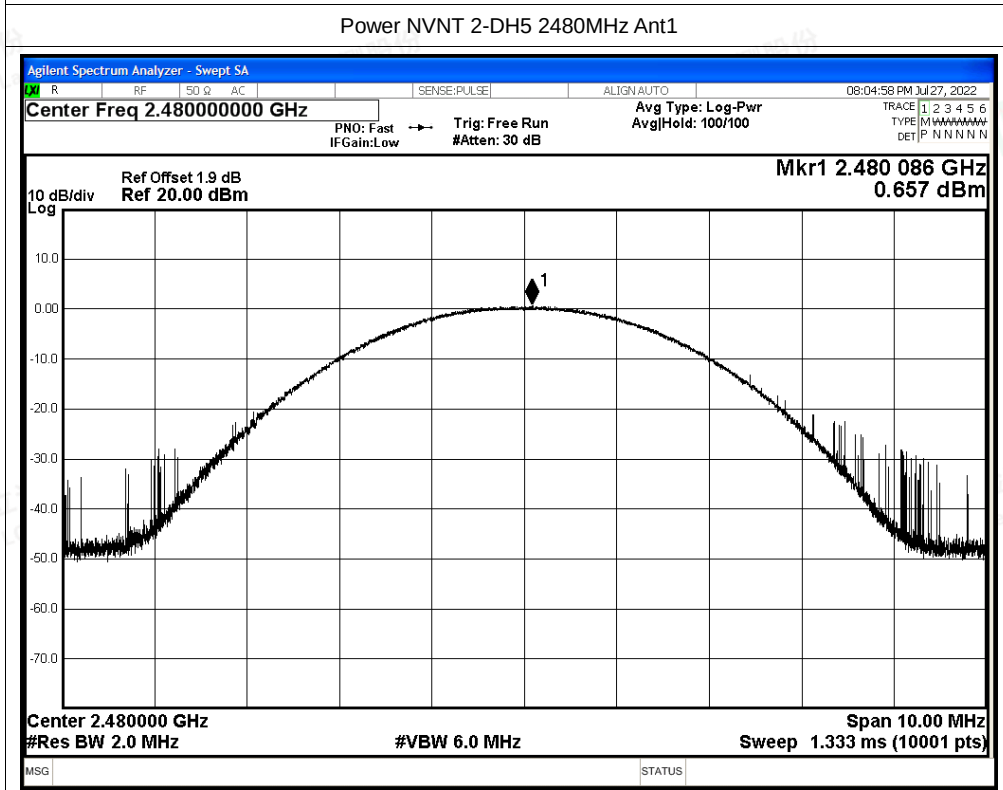
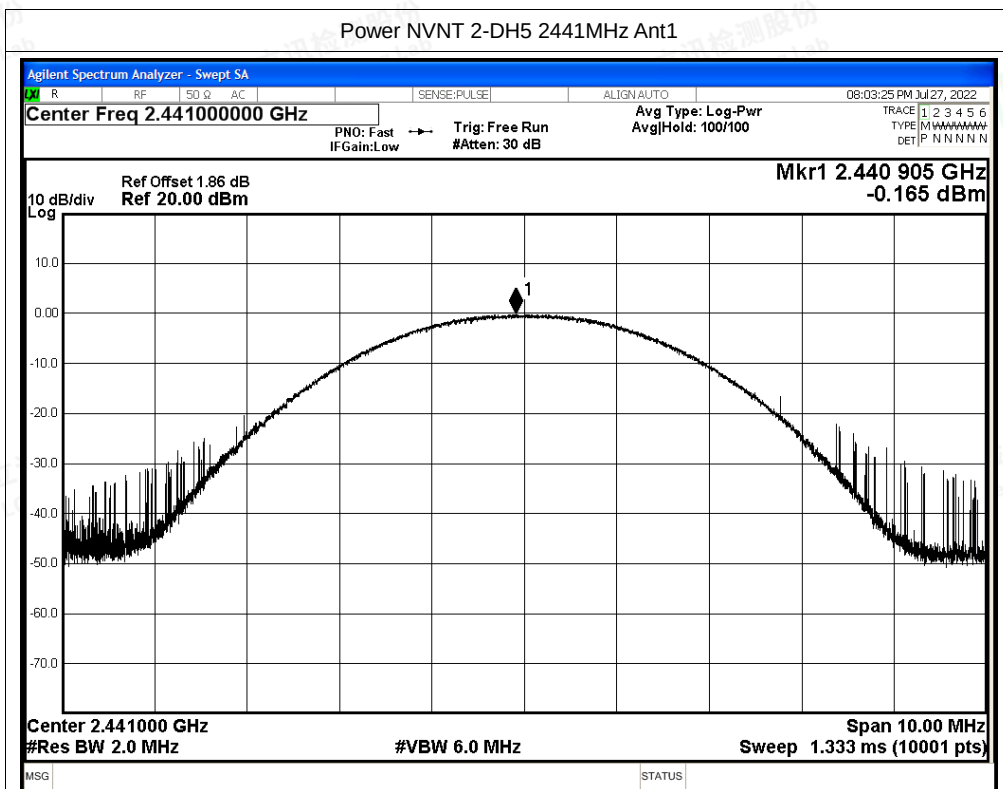


Power NVNT 1-DH5 2480MHz Ant1



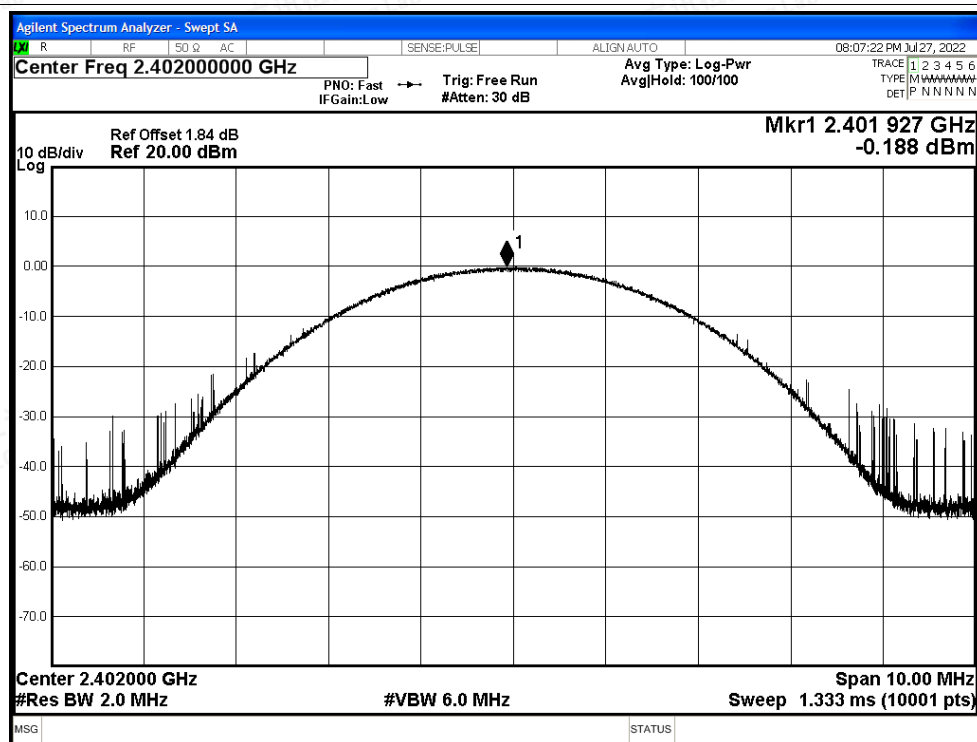
Power NVNT 2-DH5 2402MHz Ant1



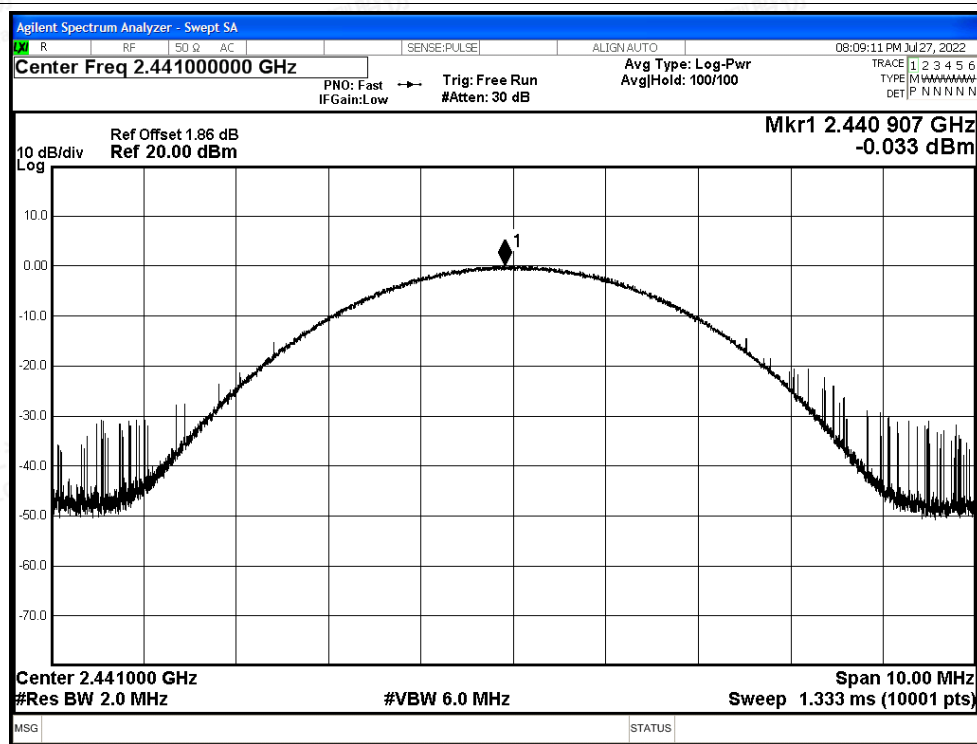


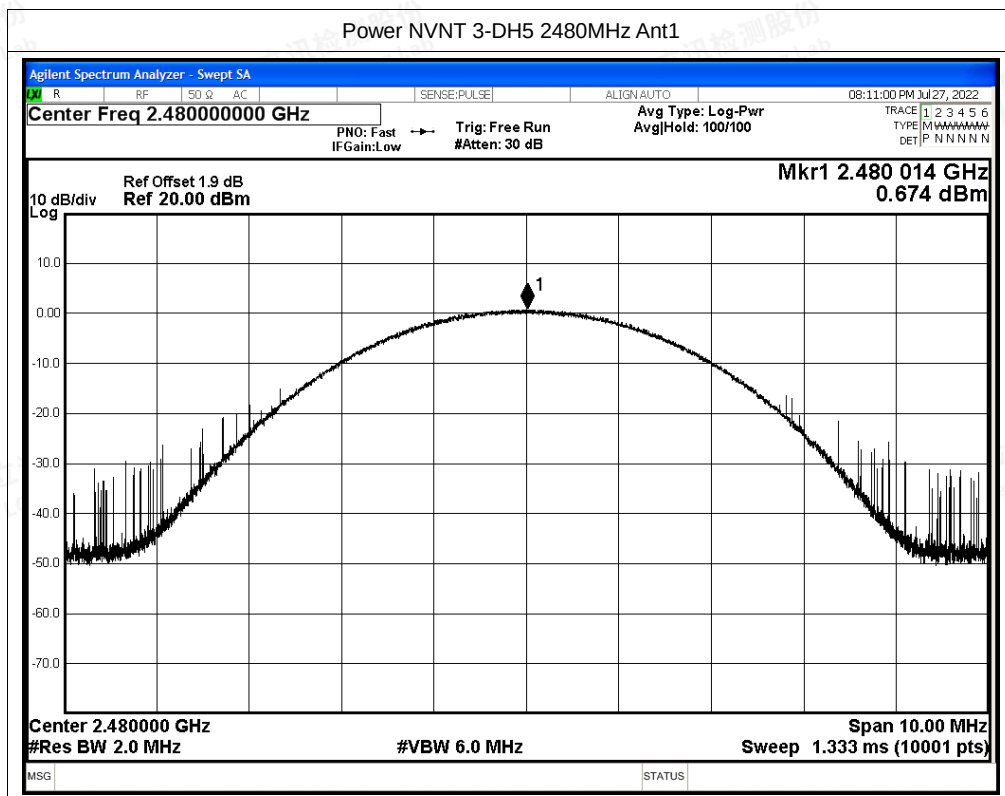


Power NVNT 3-DH5 2402MHz Ant1



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	2401.978	2402.966	0.988	0.629	Pass
NVNT	2-DH5	Ant1	2401.986	2402.906	0.92	0.849	Pass
NVNT	3-DH5	Ant1	2401.846	2402.994	1.148	0.875	Pass

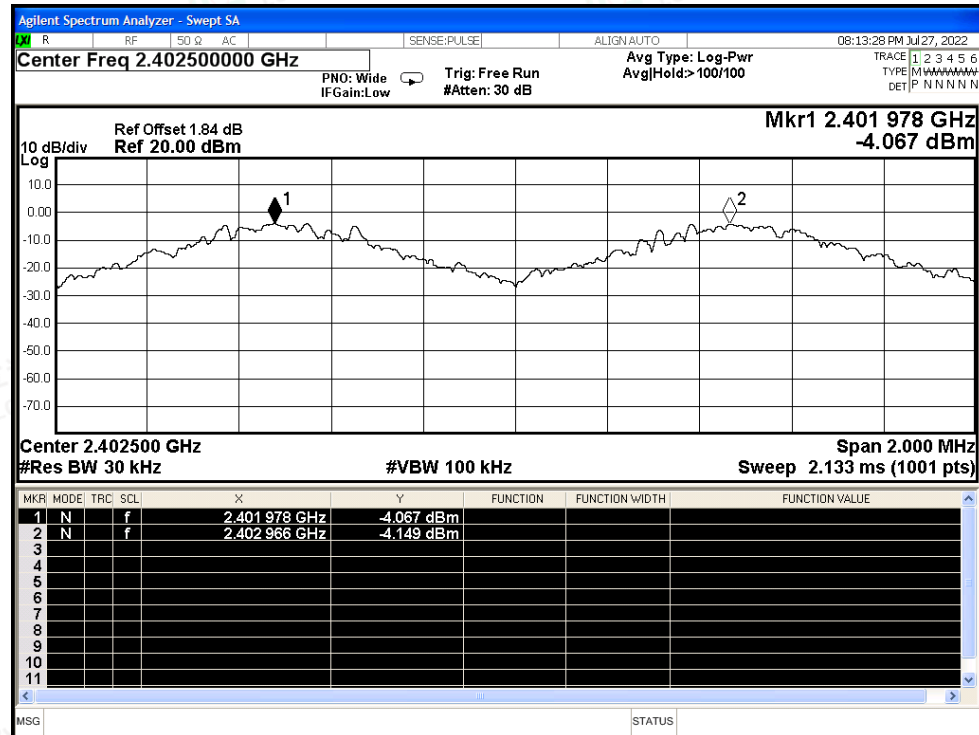


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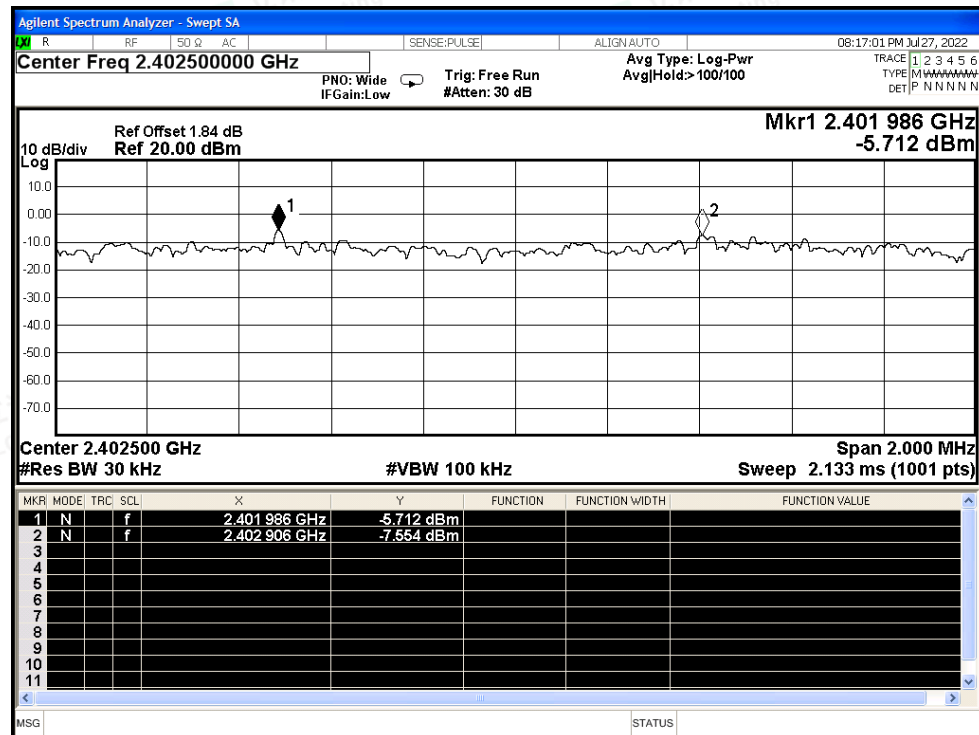


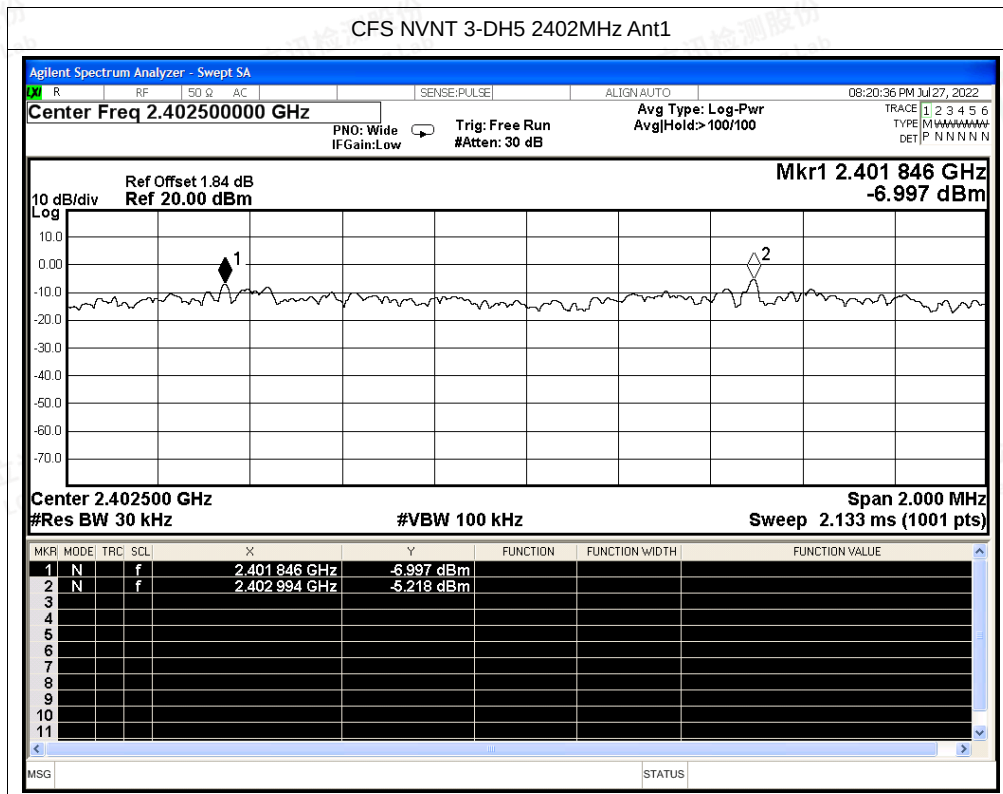
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-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	2.897	298.391	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.887	308.909	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	314.574	109	31600	400	Pass

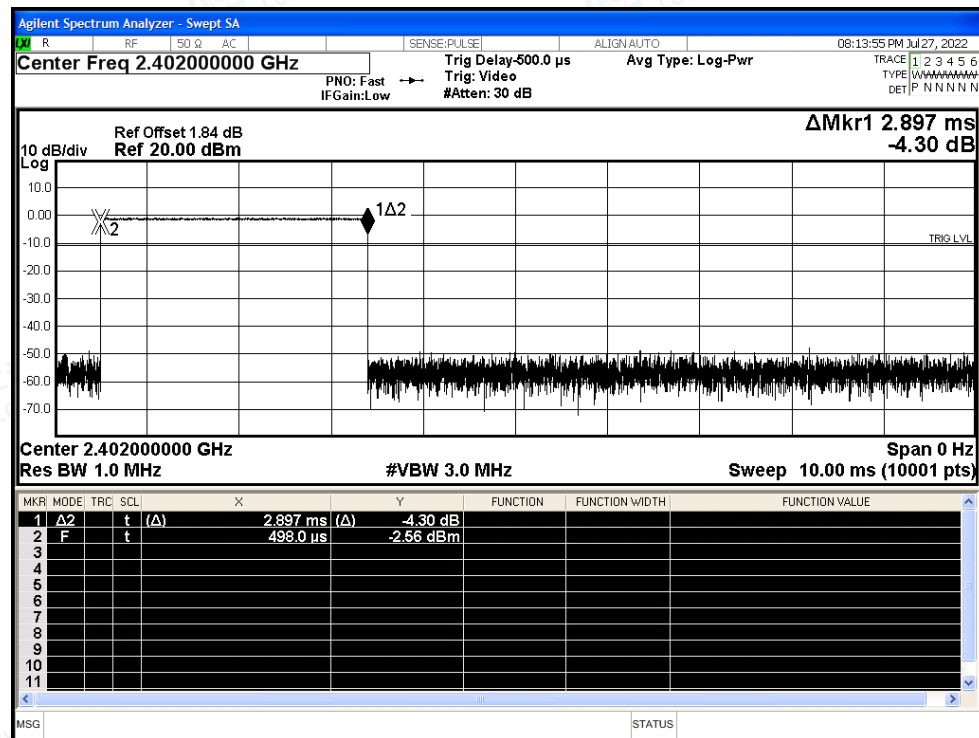


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Scan code to check authenticity

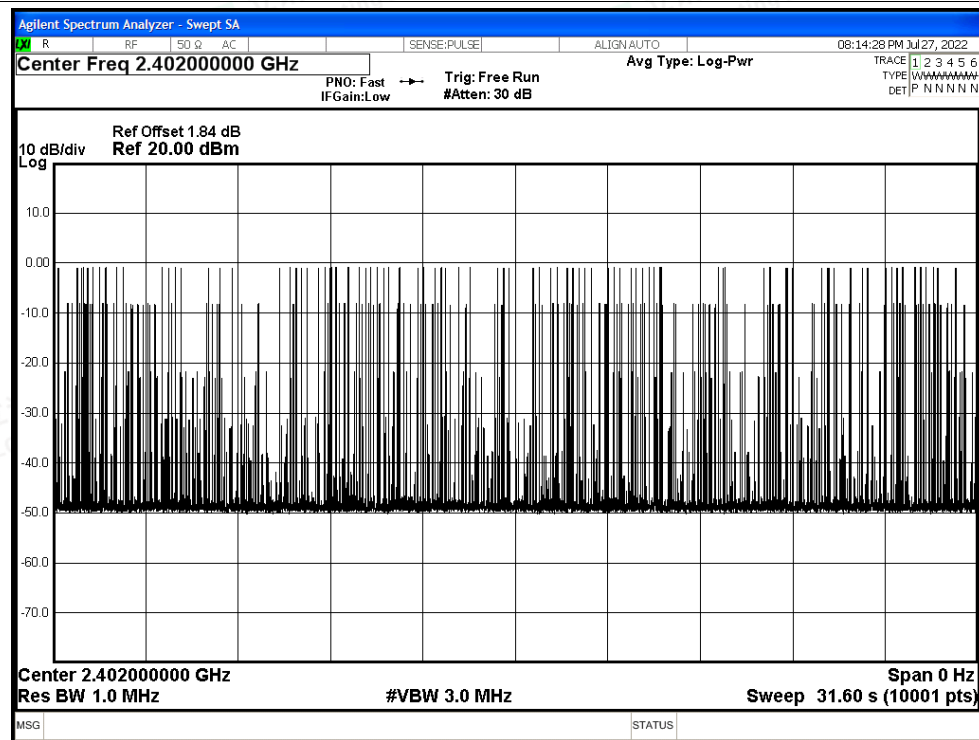


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

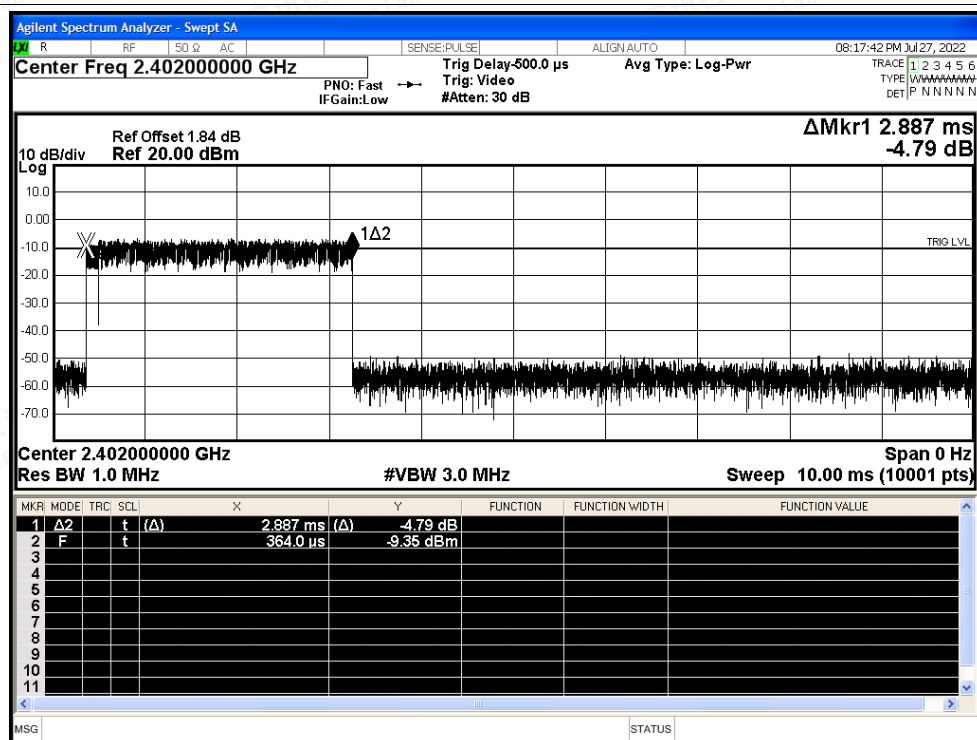


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

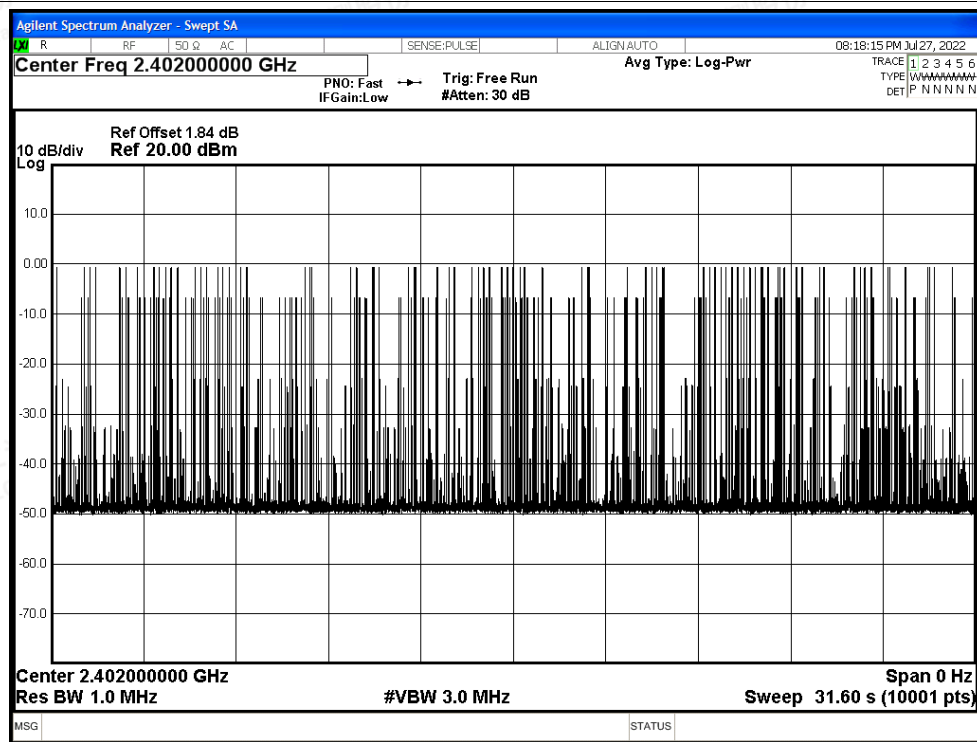




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

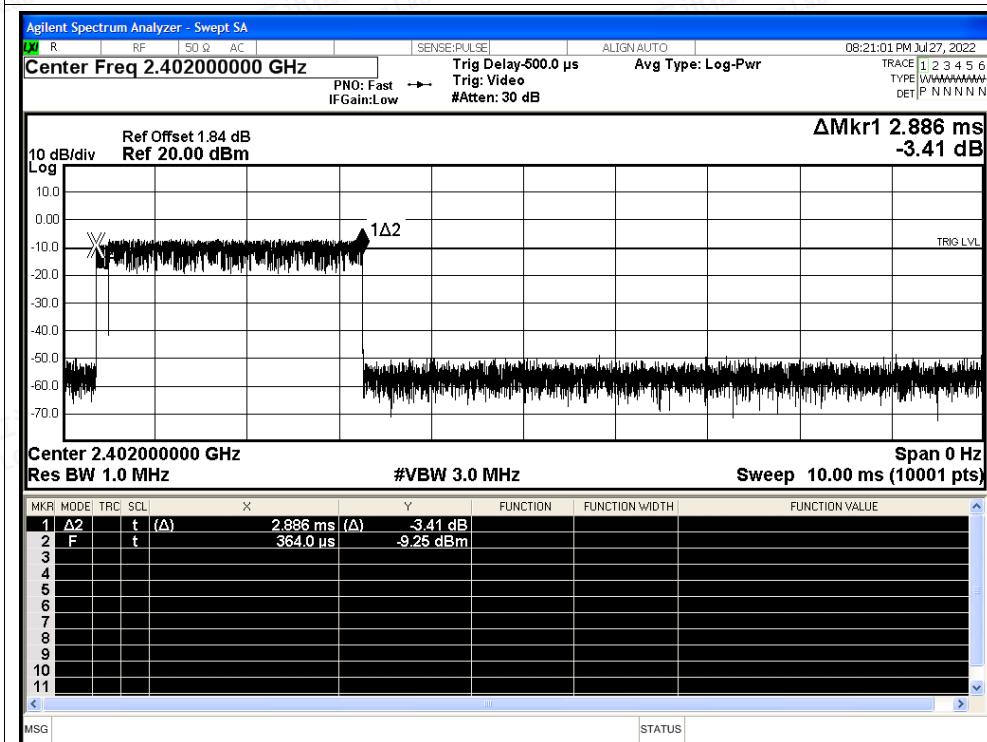


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

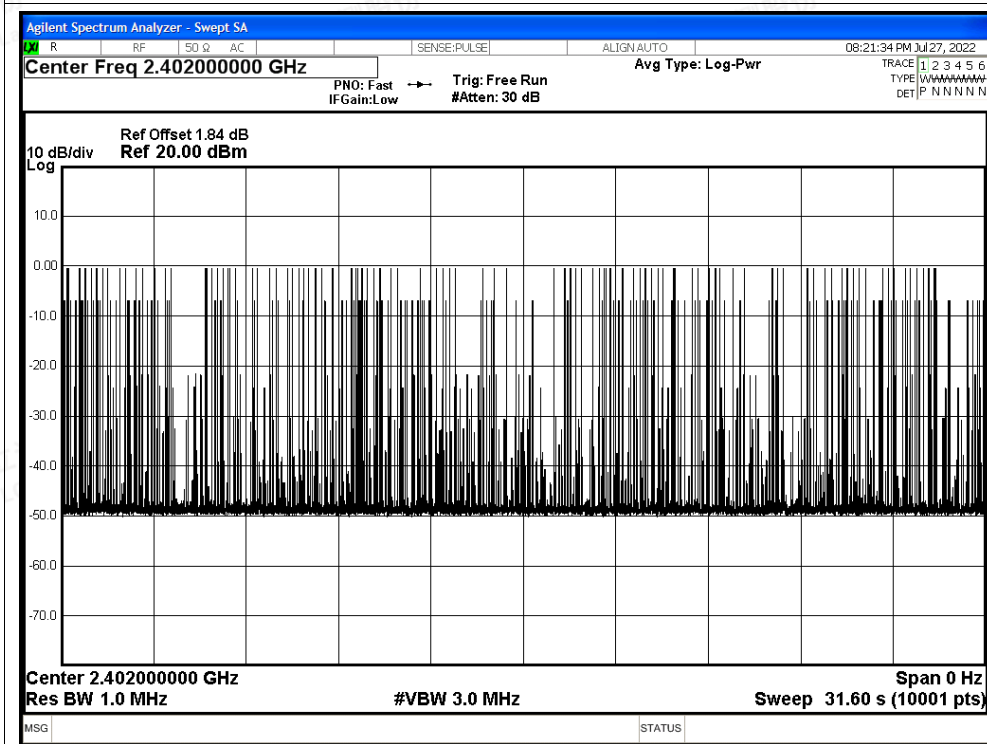




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

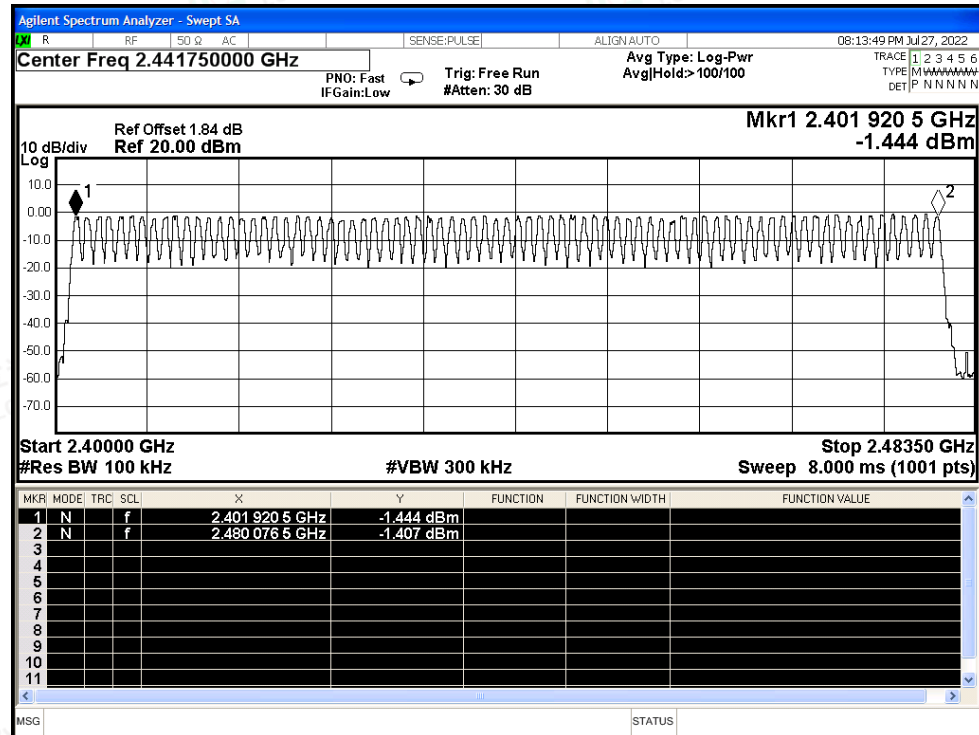
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



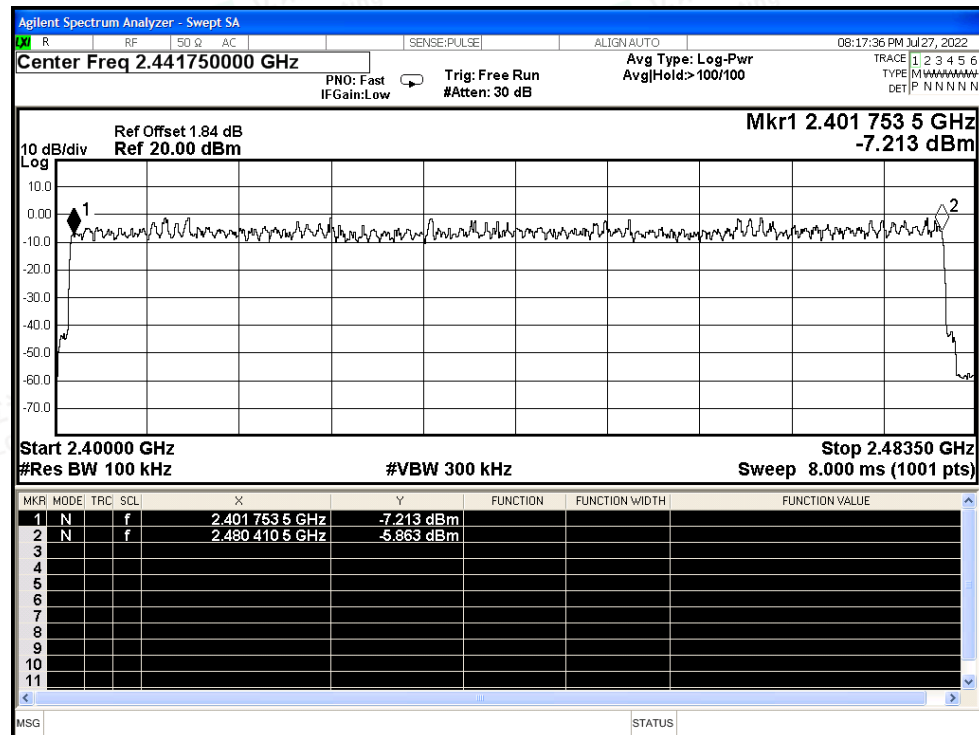


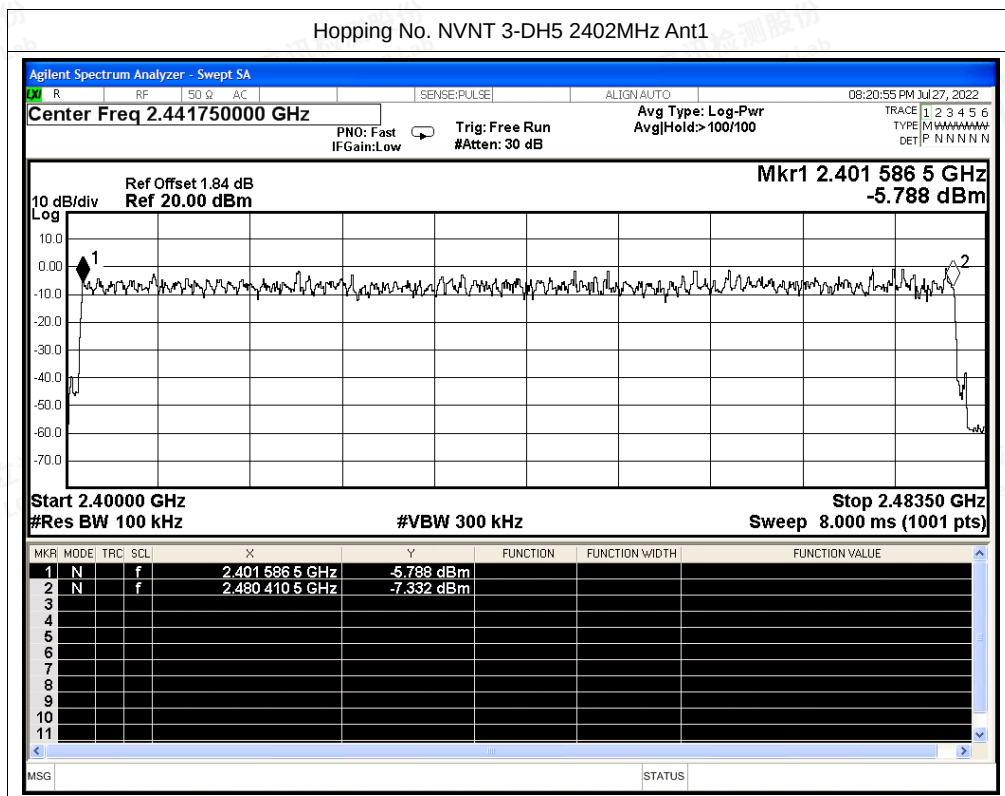
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

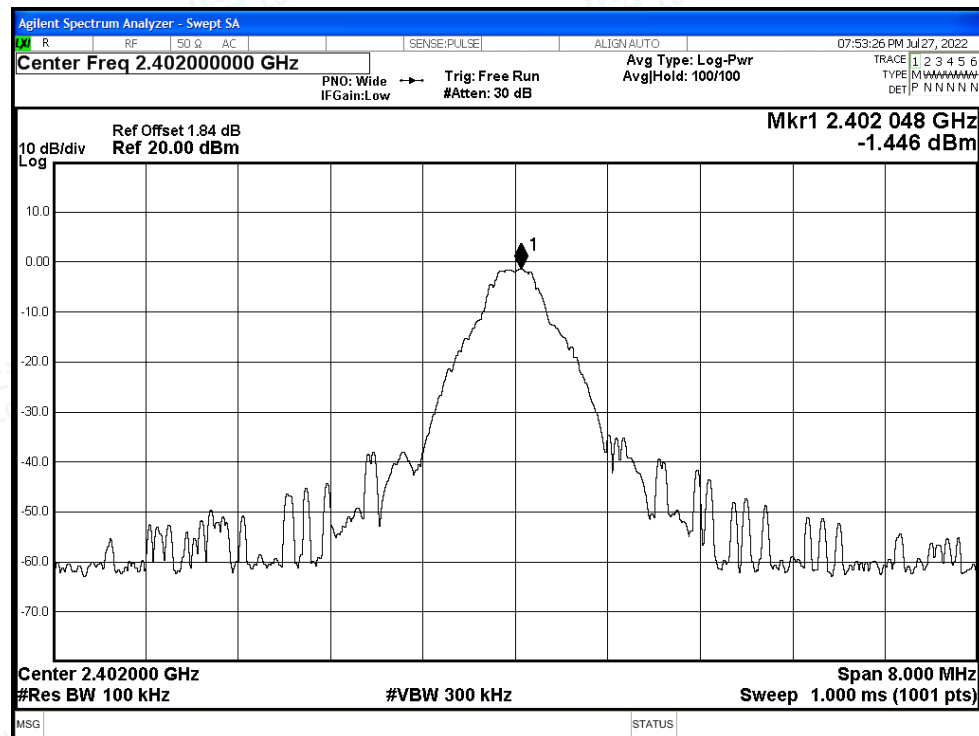
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-51.03	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-53.38	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-45.78	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.54	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-43.69	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.38	-20	Pass



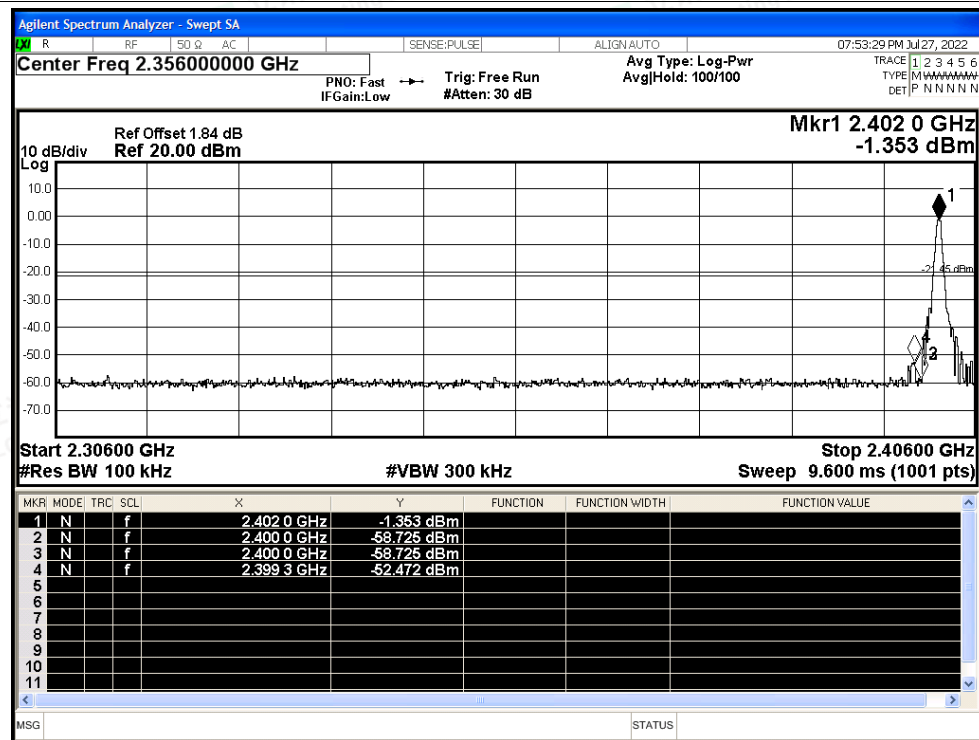


Test Graphs

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

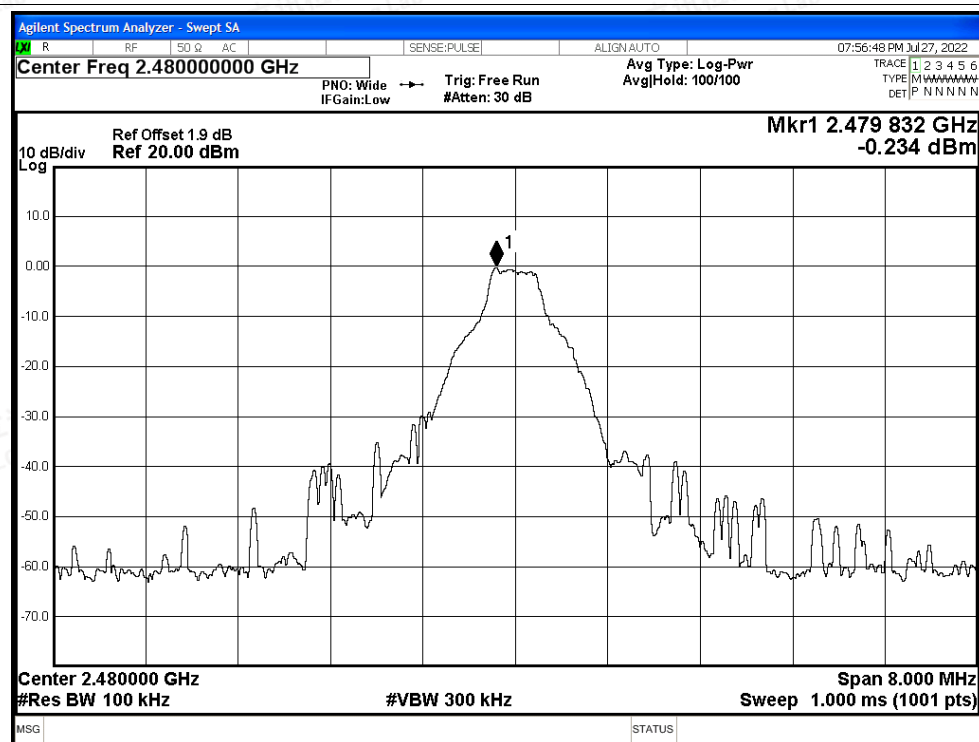


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

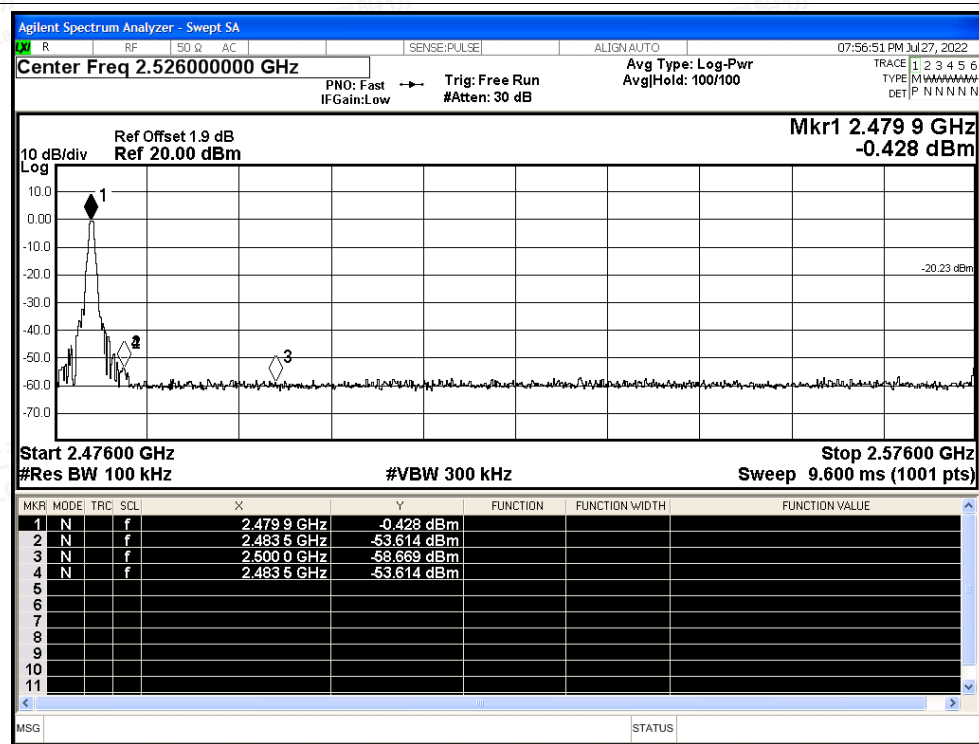




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

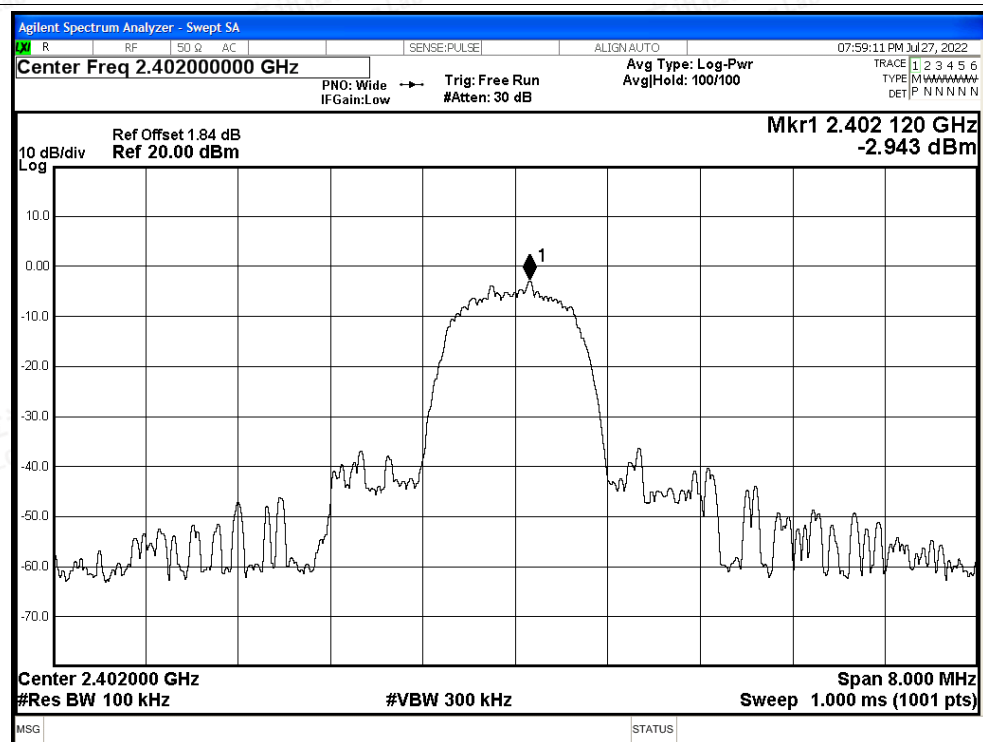


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

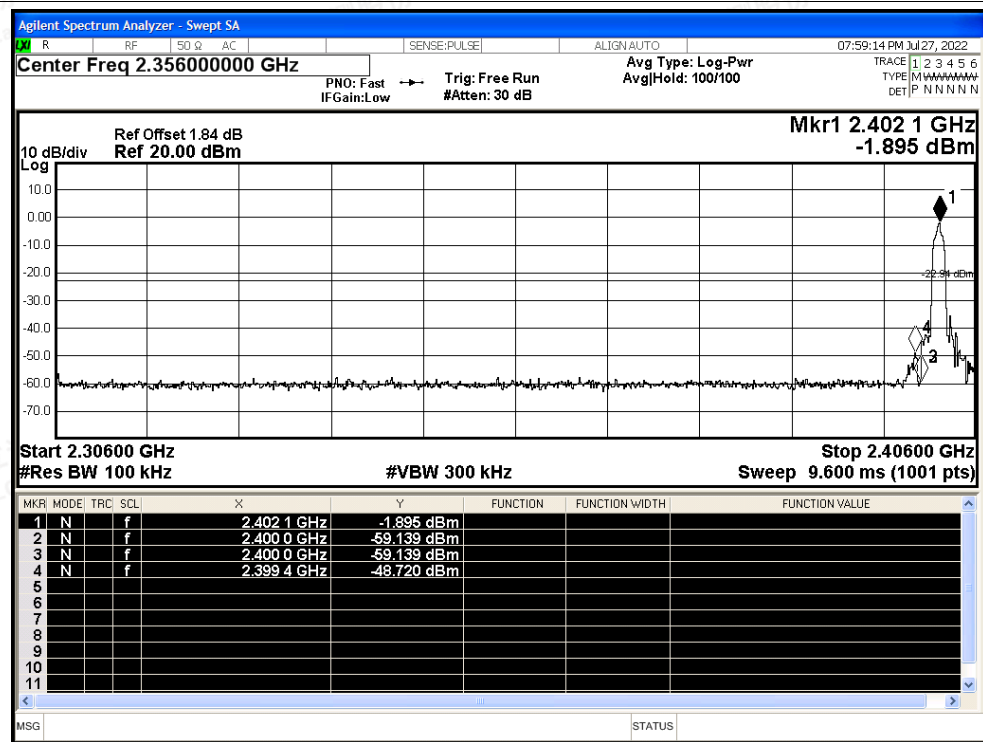




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

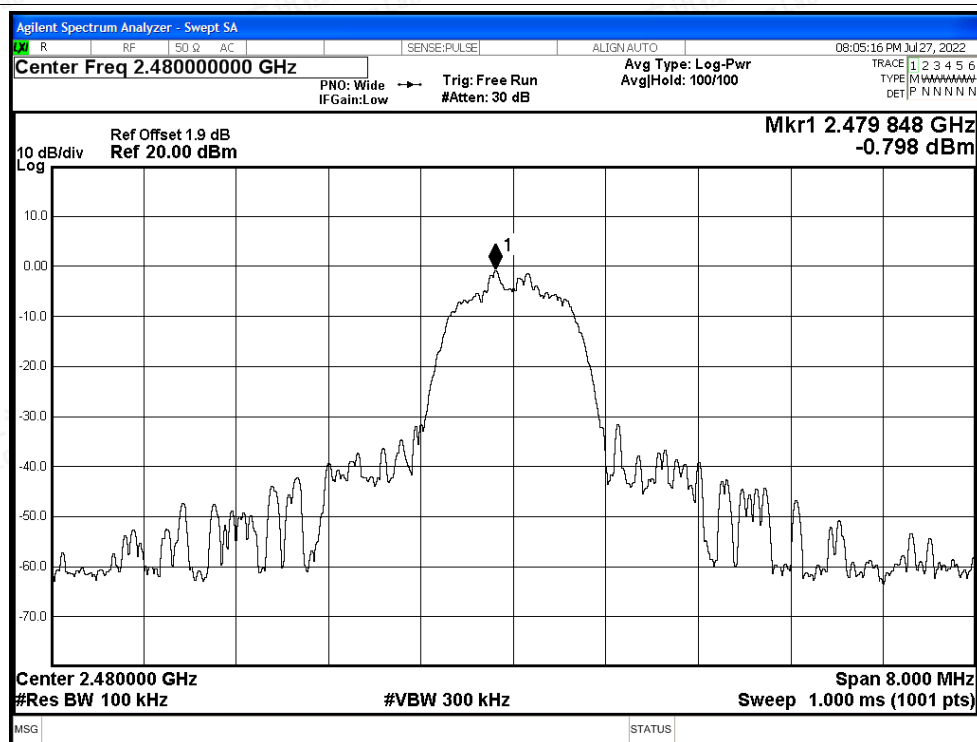


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

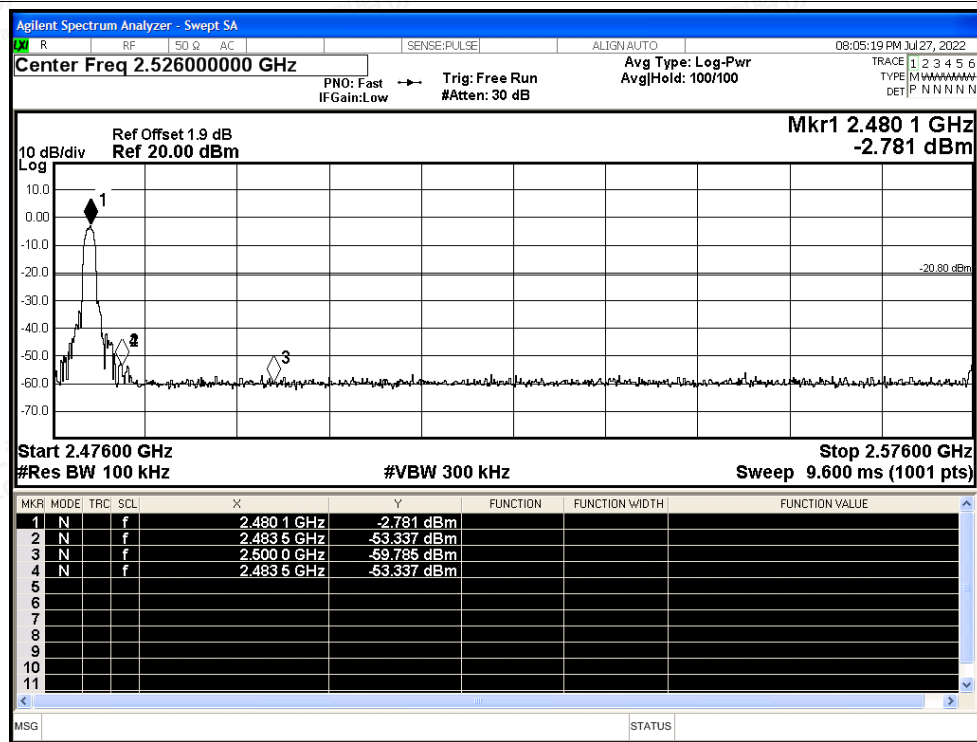




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

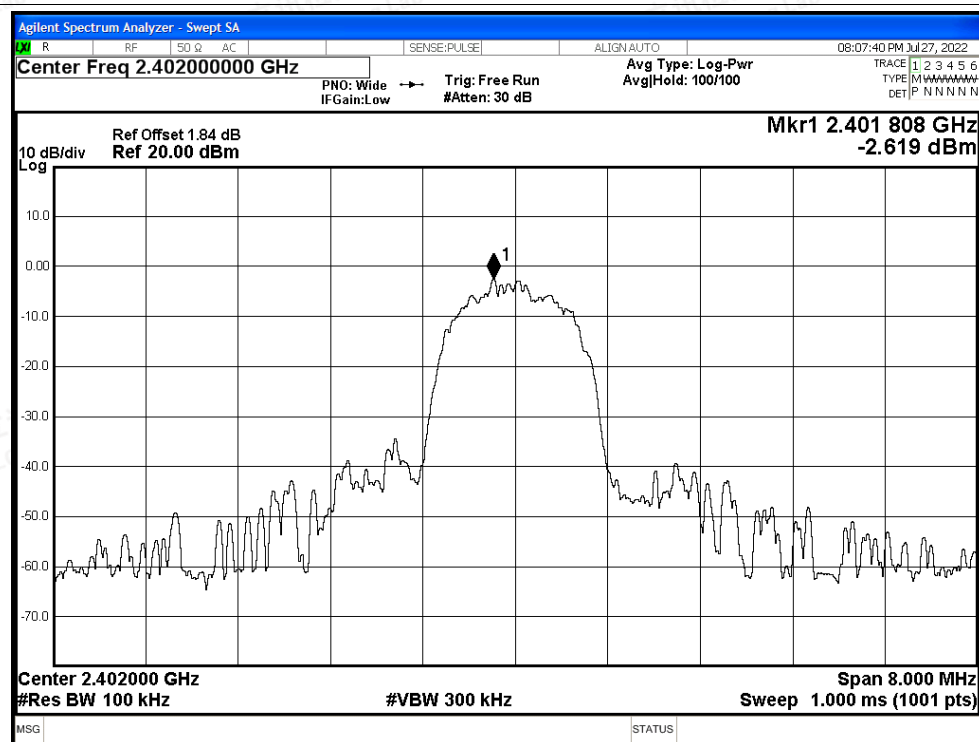


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

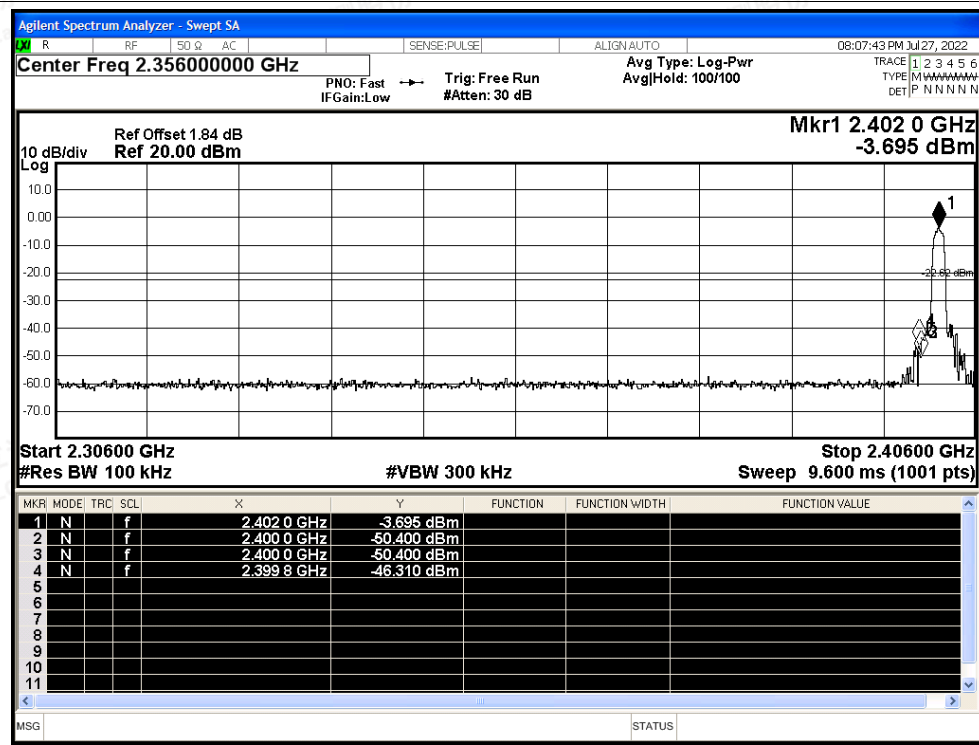




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

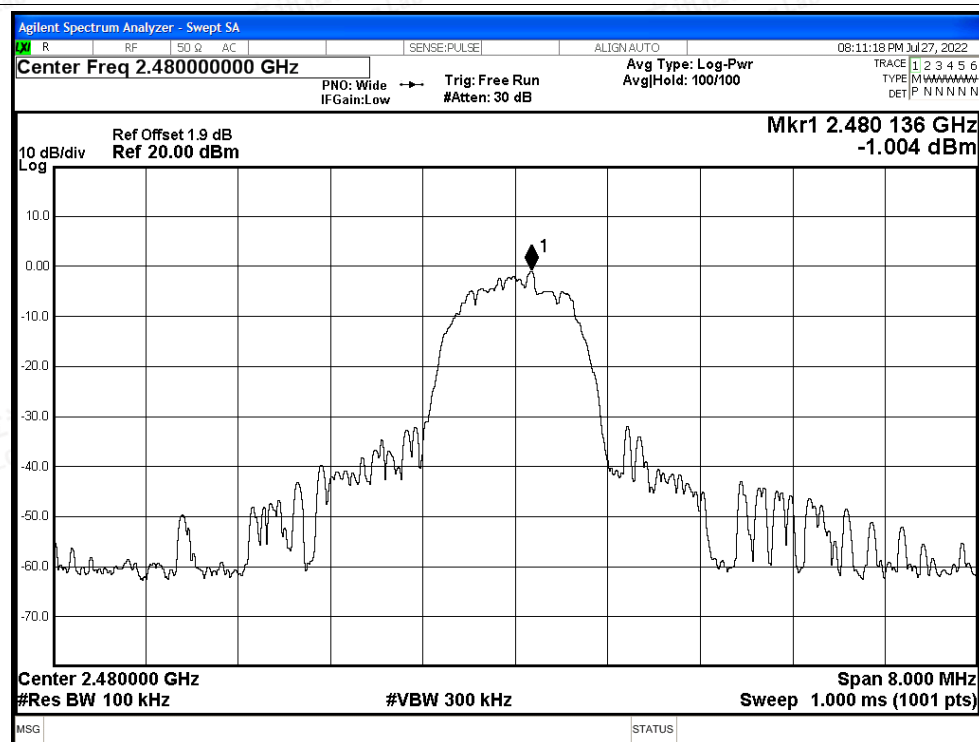


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

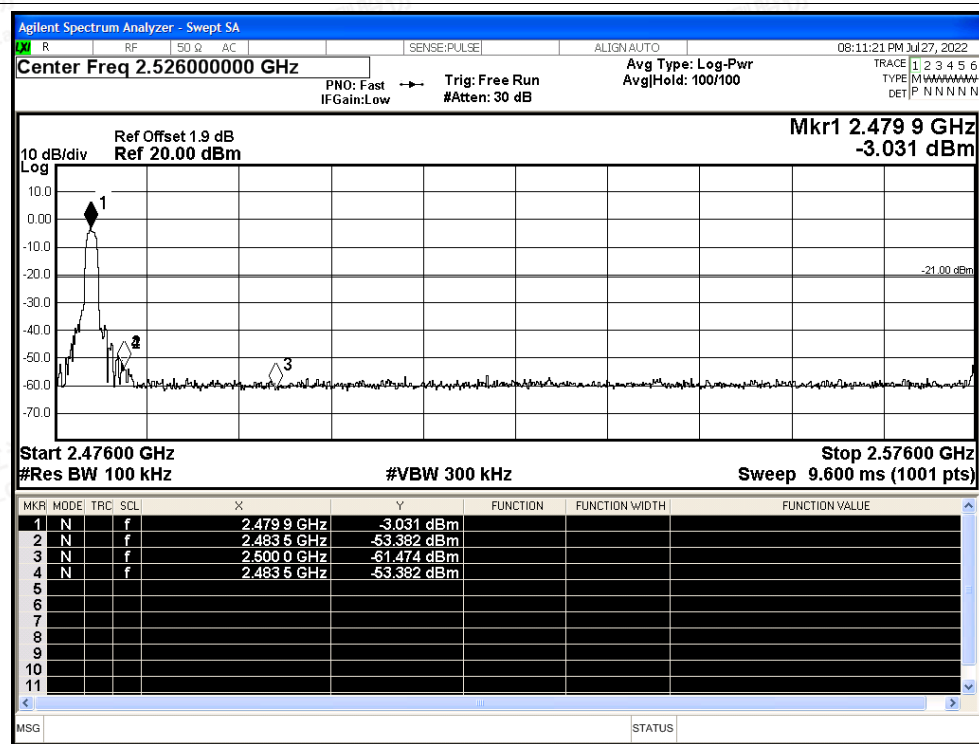




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

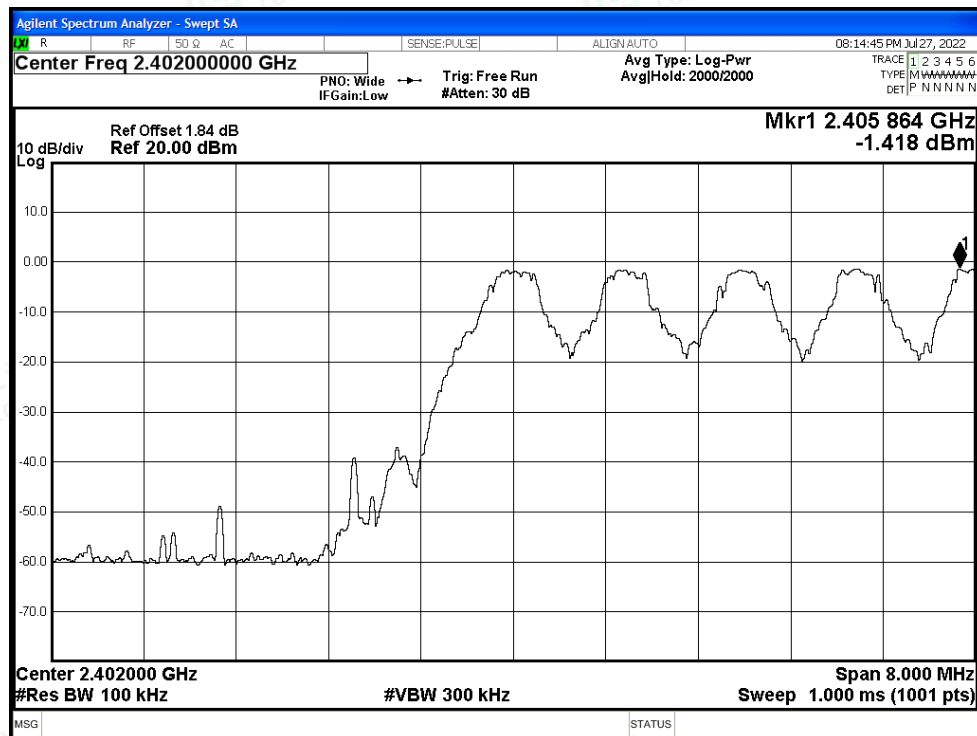
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.6	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.33	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.76	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-51.49	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.14	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-51.31	-20	Pass



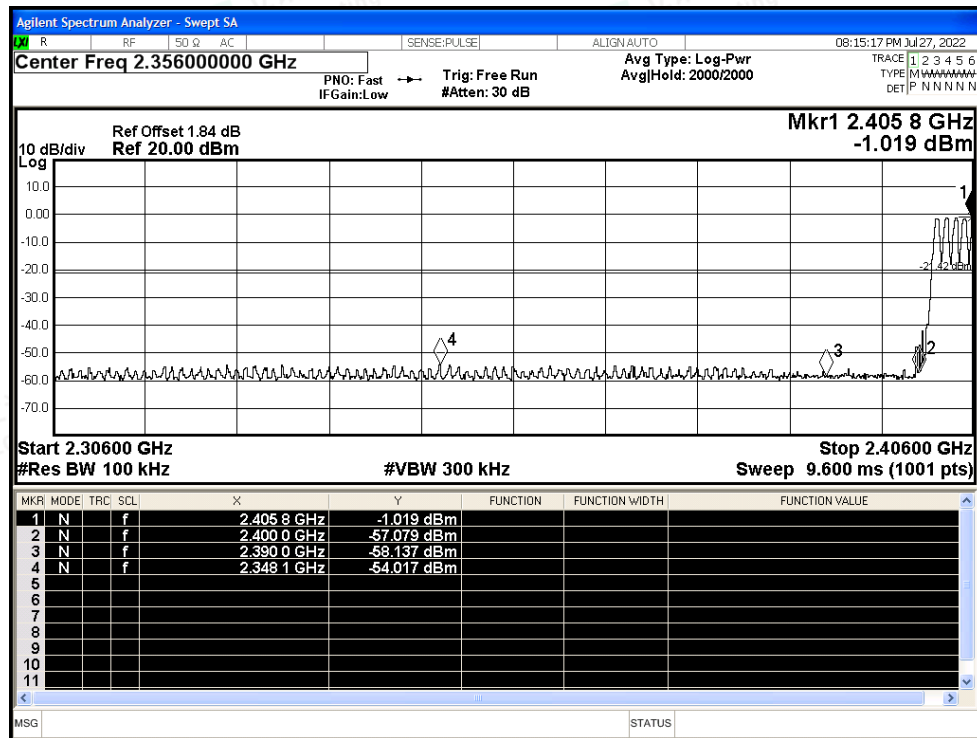


Test Graphs

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



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



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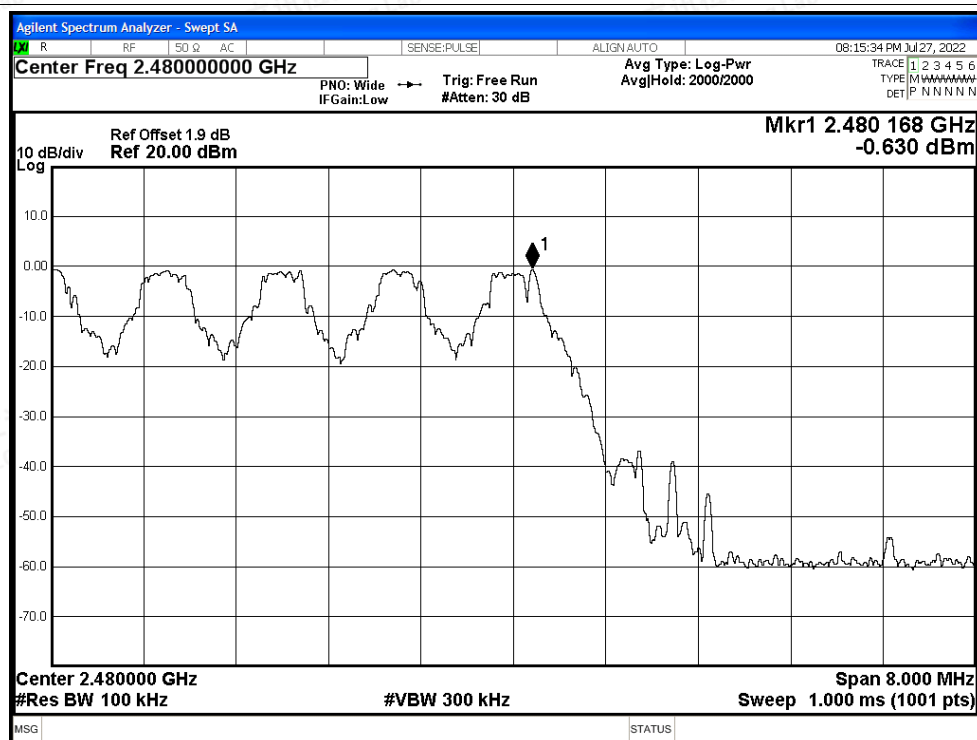
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

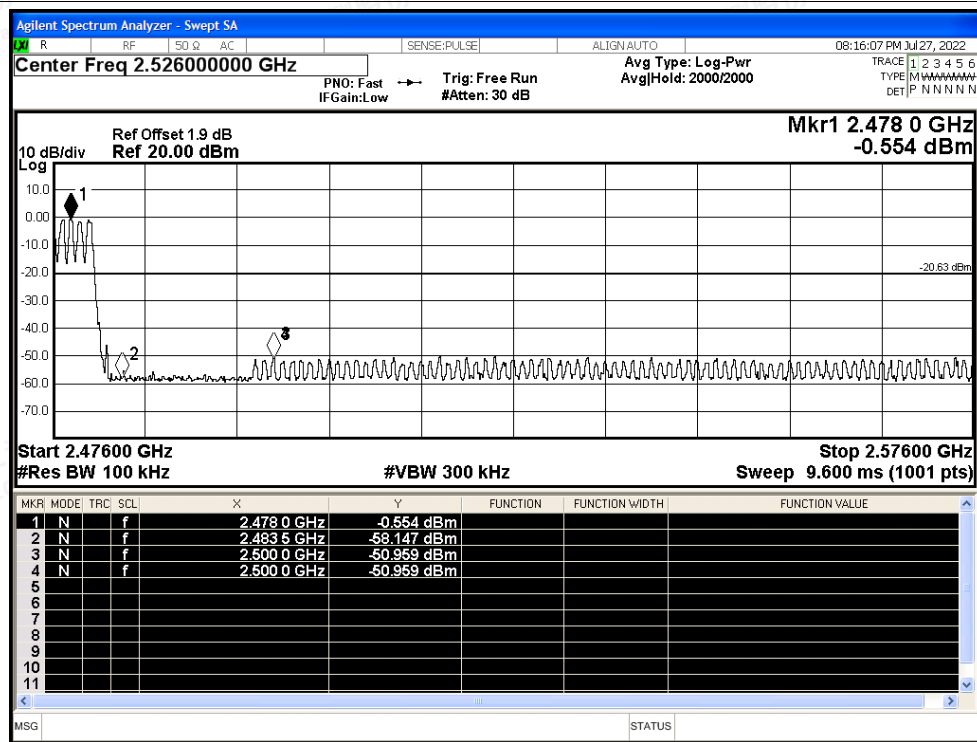
Scan code to check authenticity



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



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



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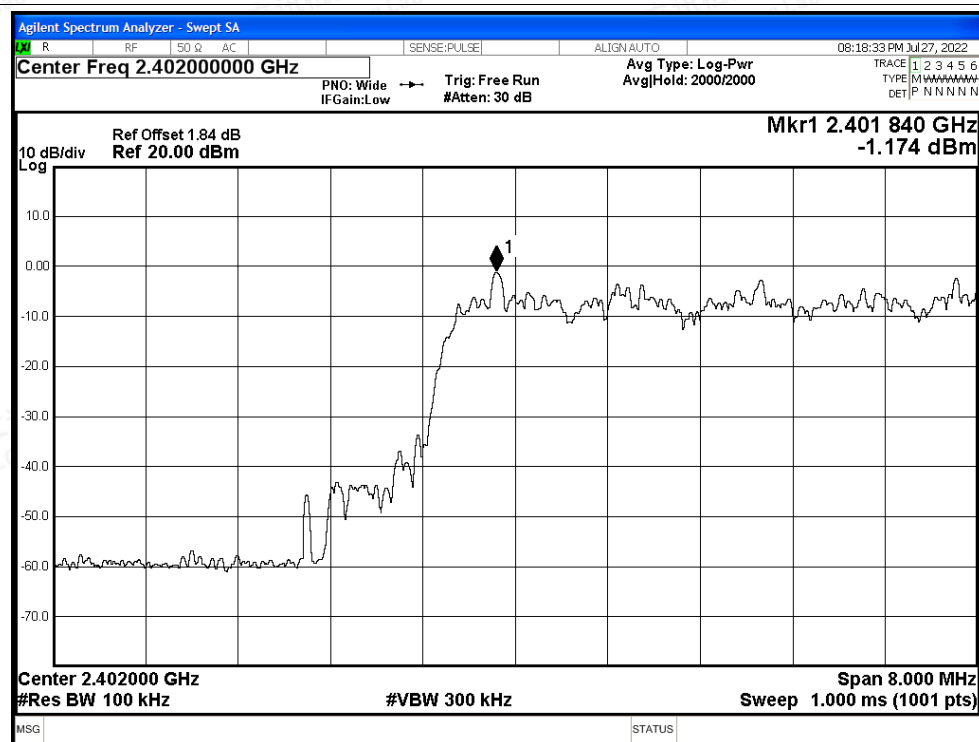
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

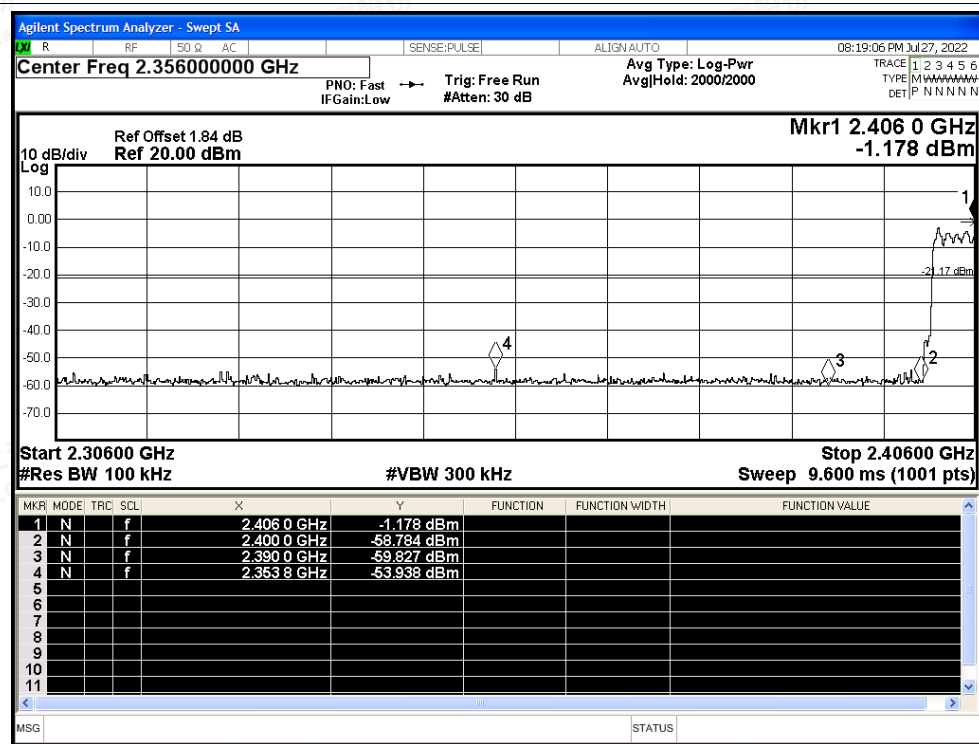
Scan code to check authenticity

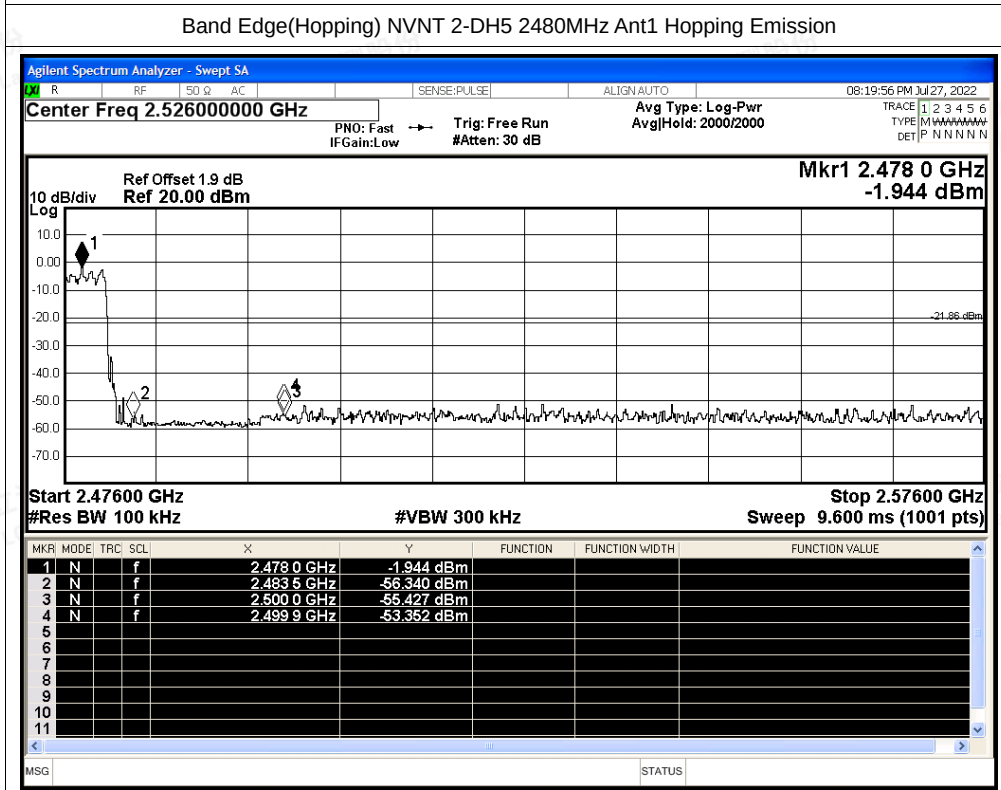
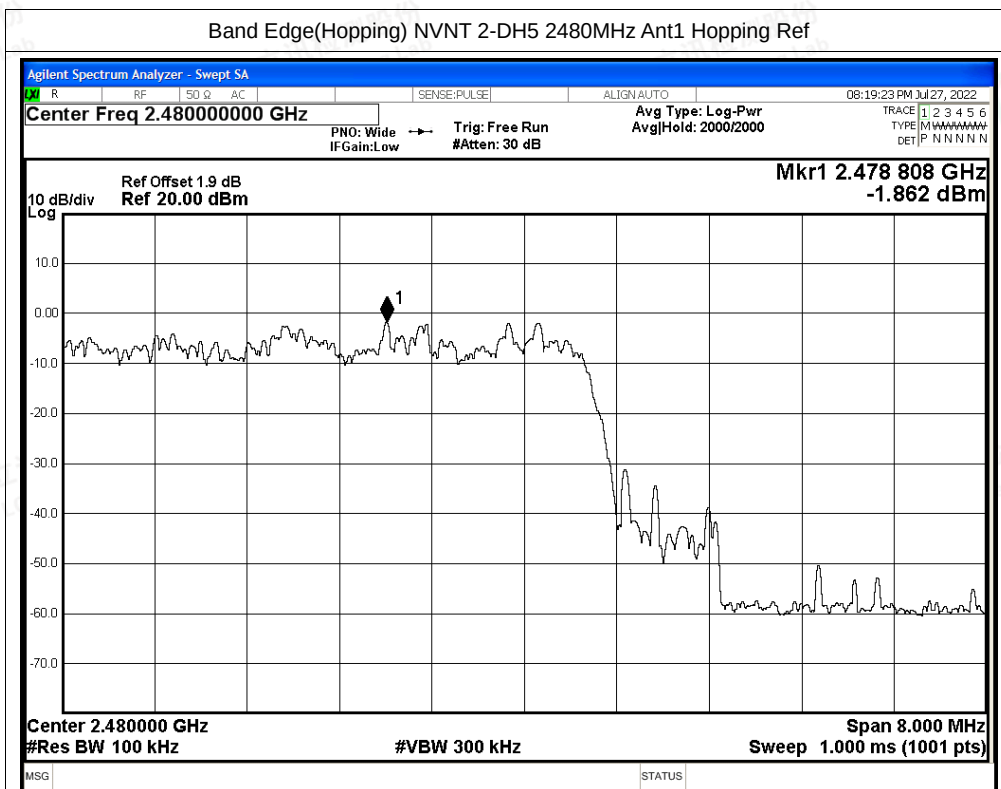


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



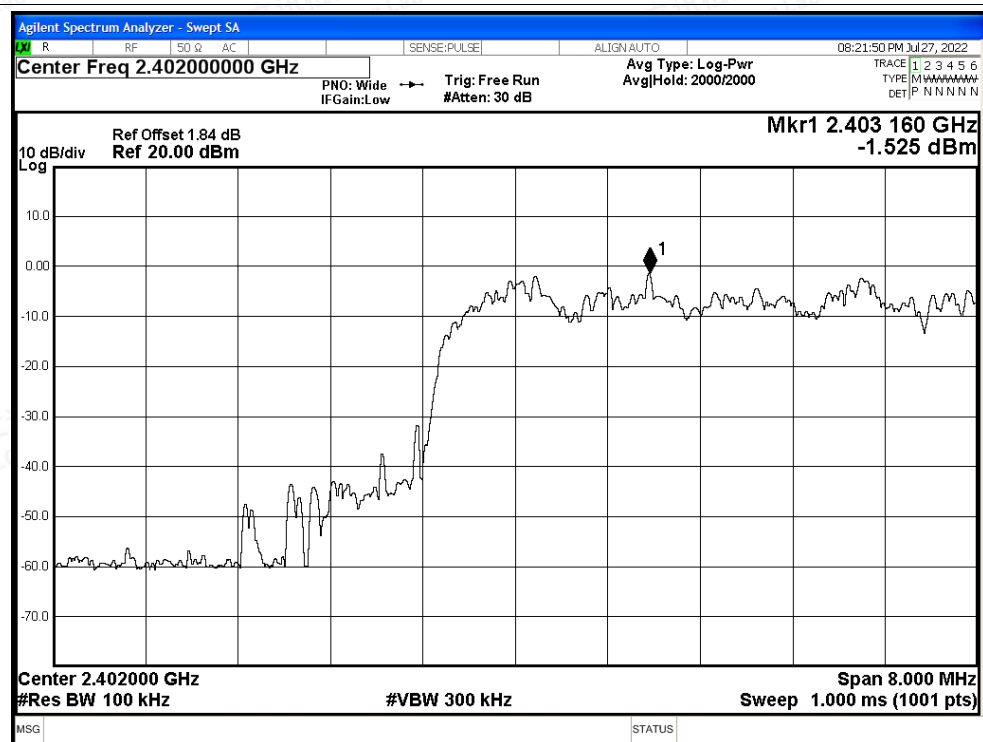
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



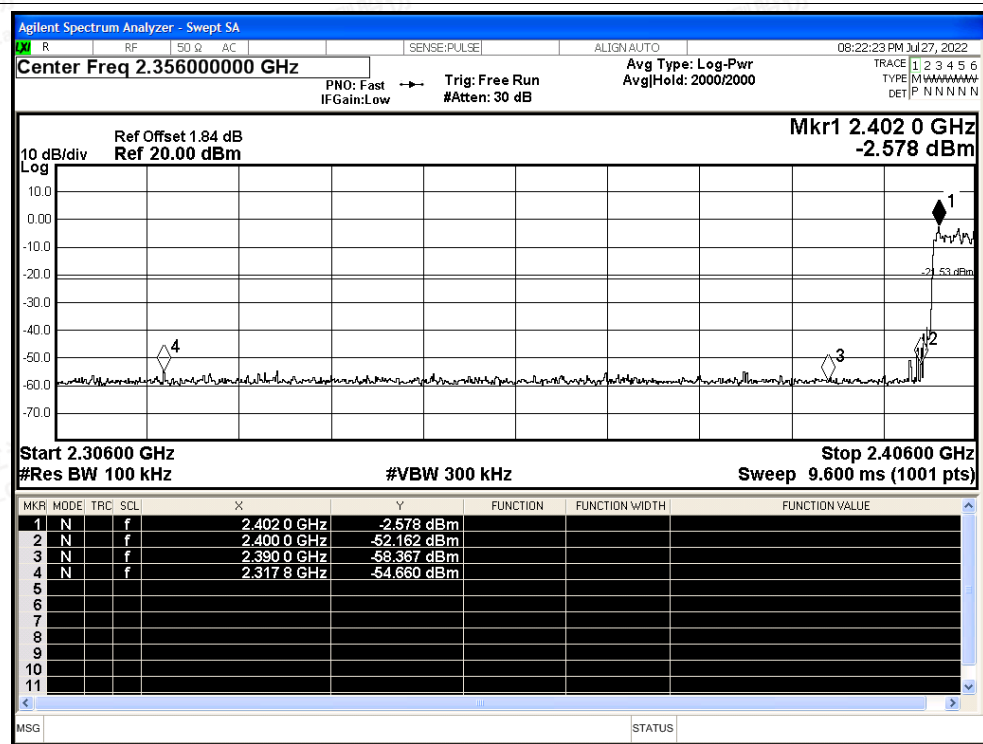




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

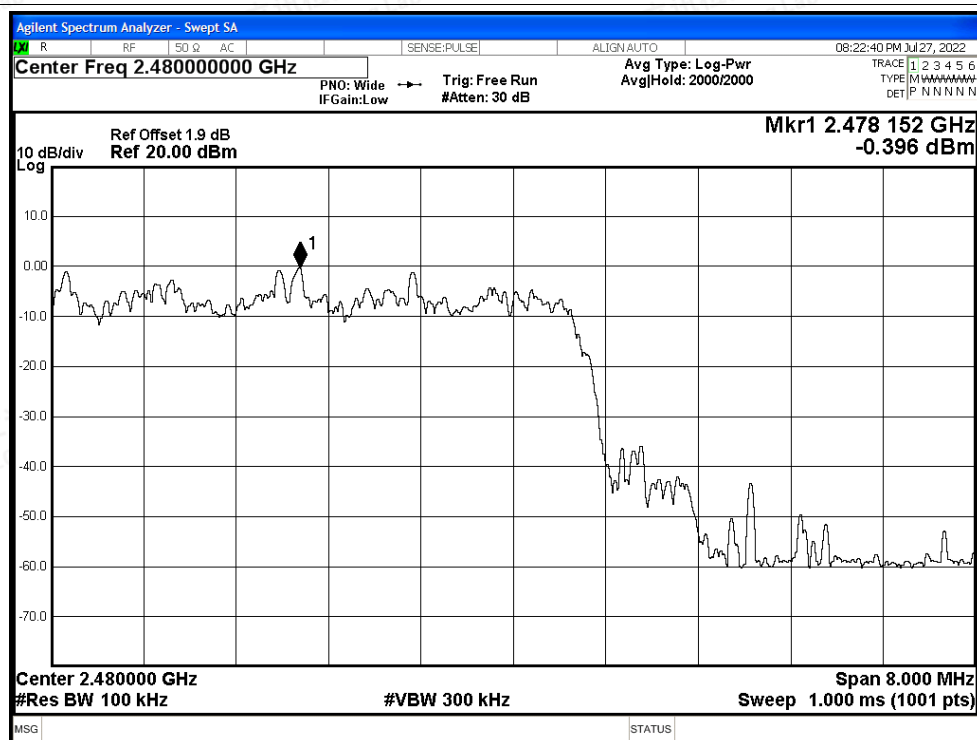


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

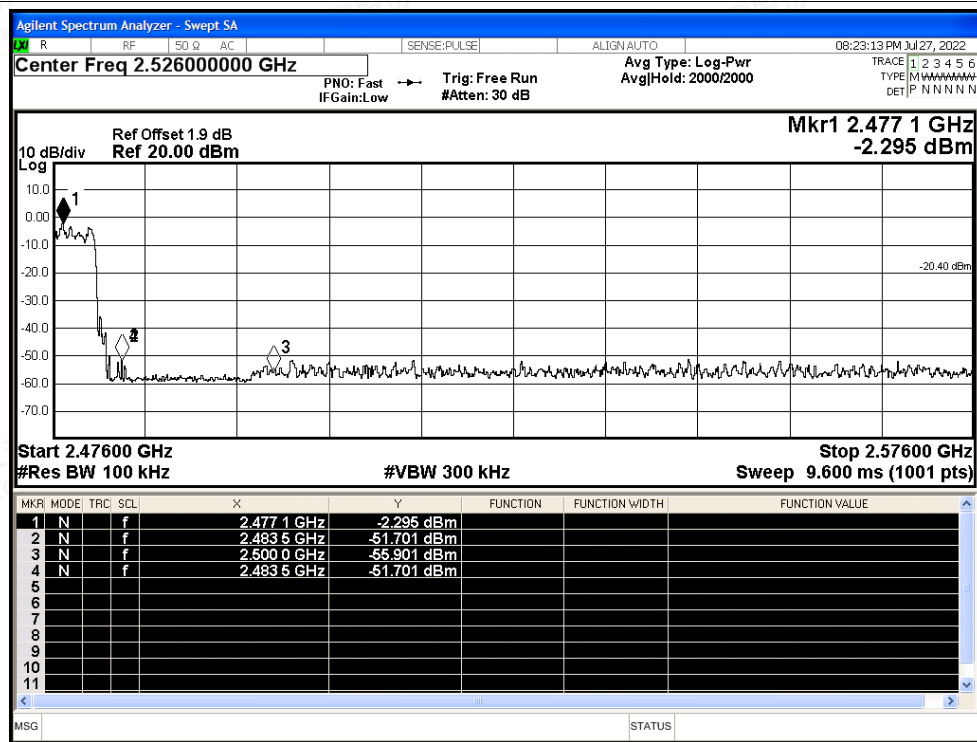




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

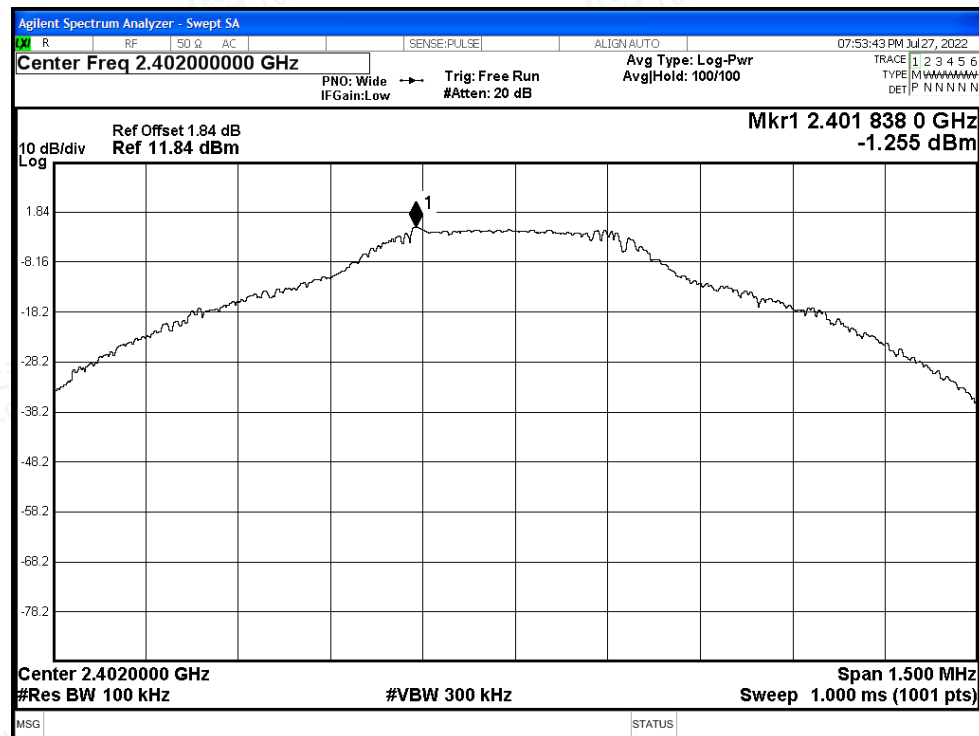
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.83	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.05	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.1	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.09	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.11	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.84	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.17	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.77	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.96	-20	Pass



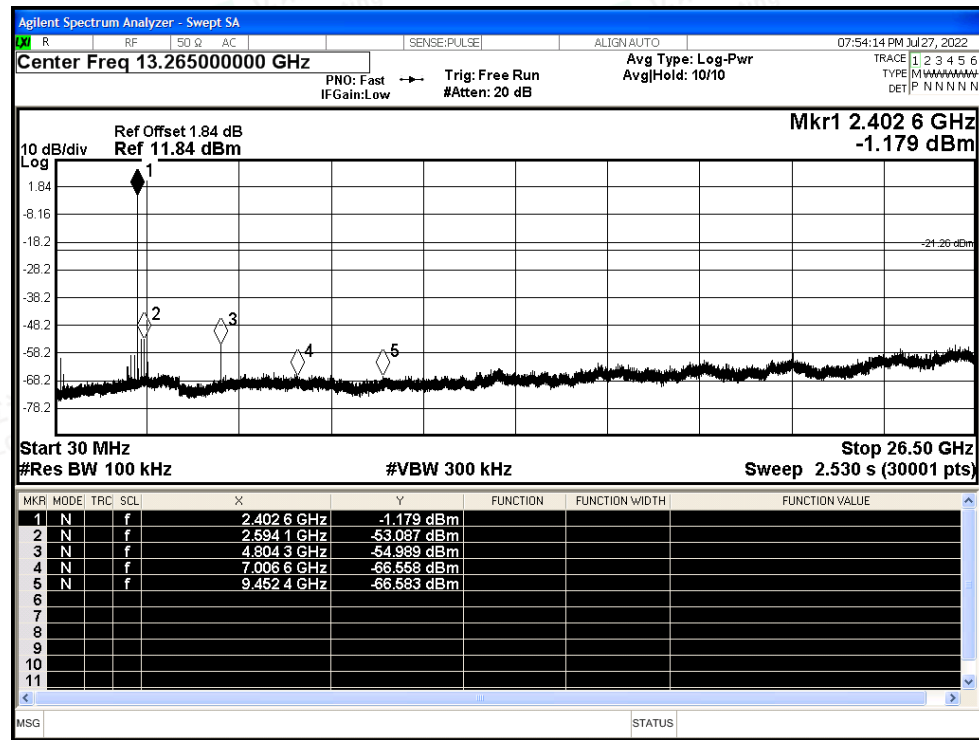


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

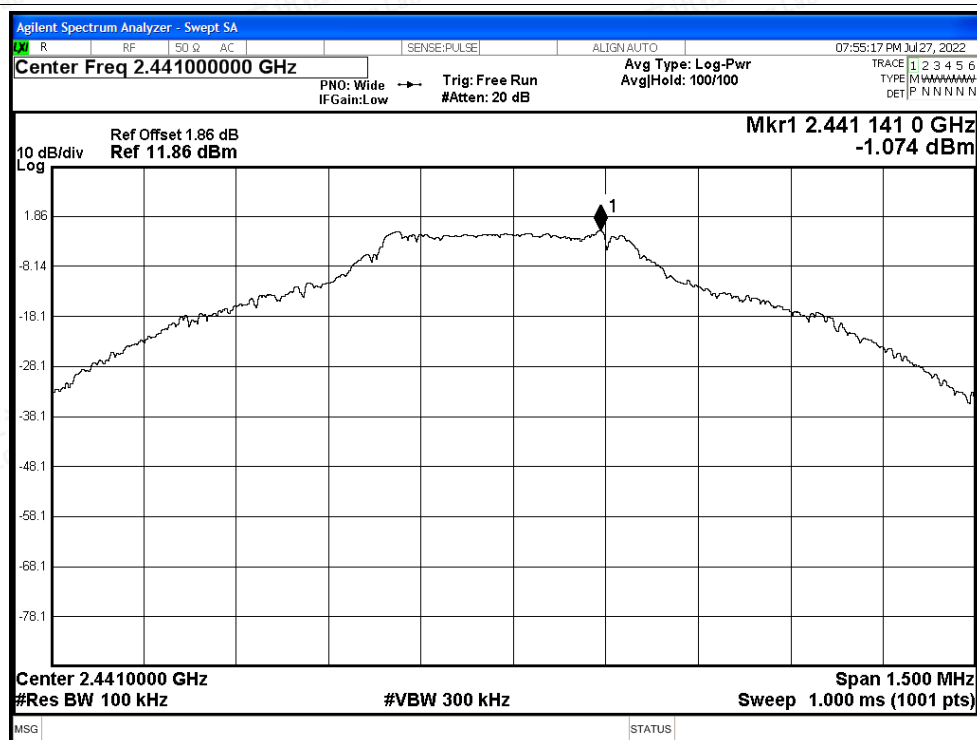


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

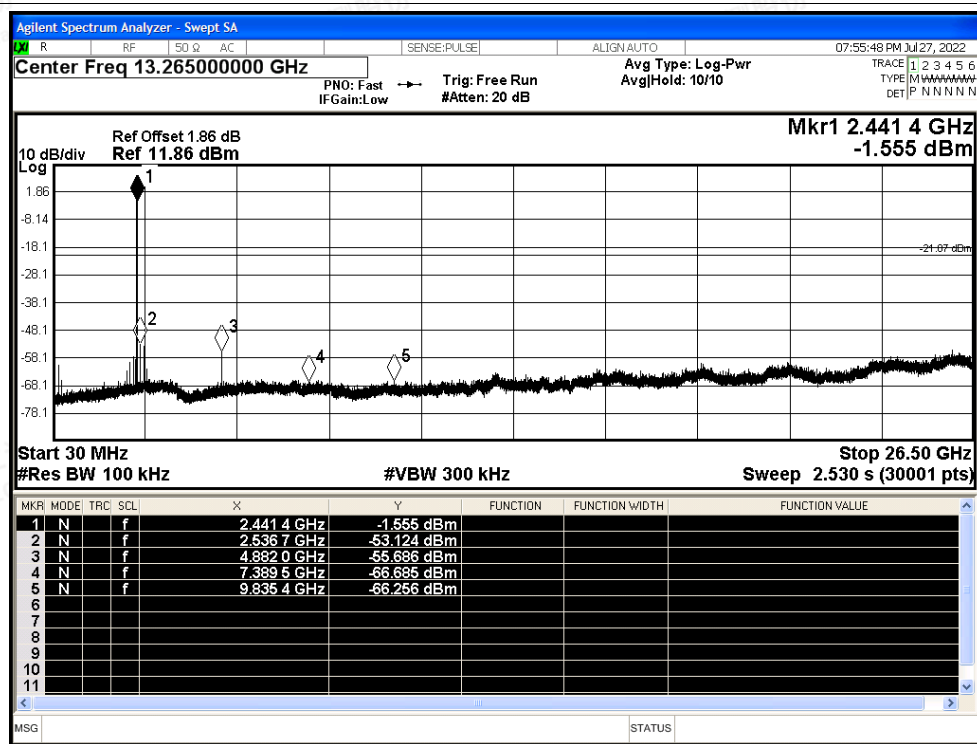




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

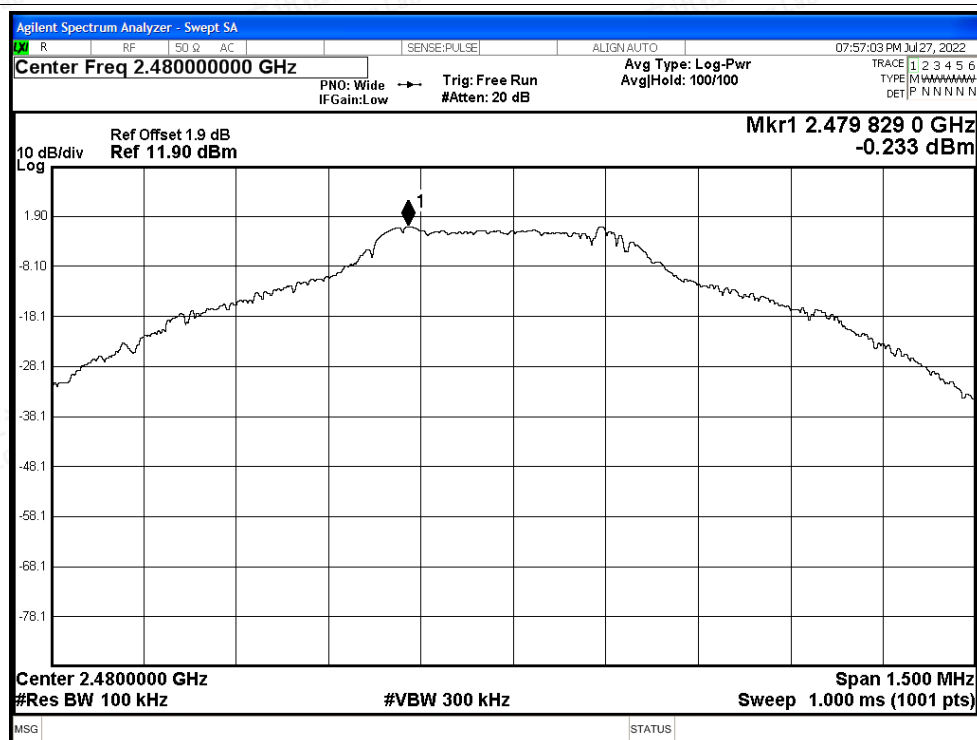


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

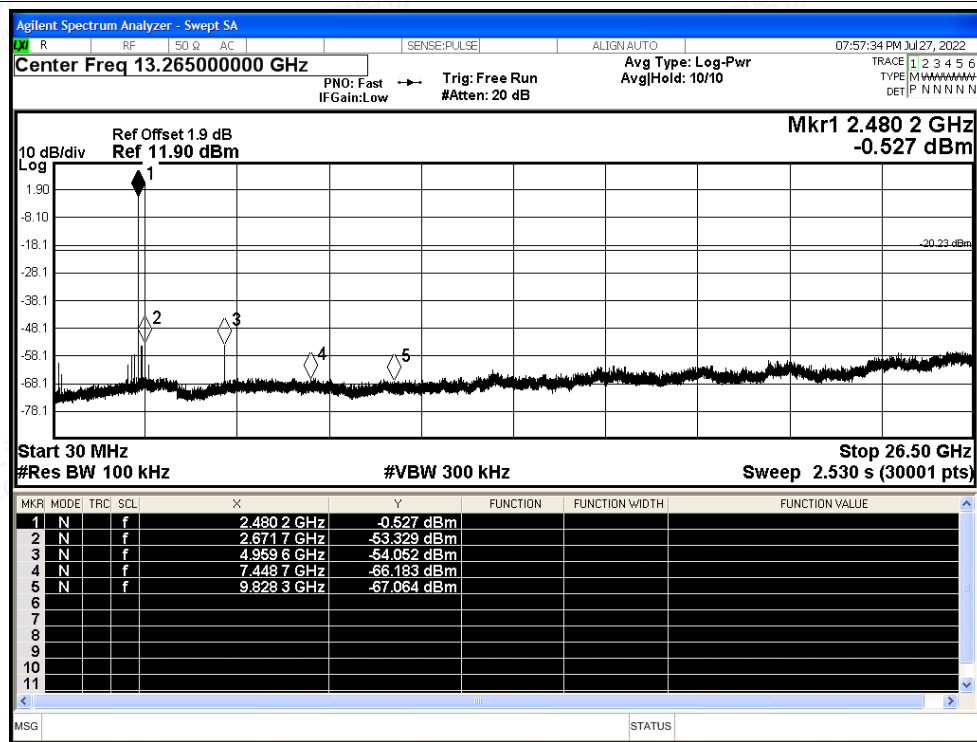




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

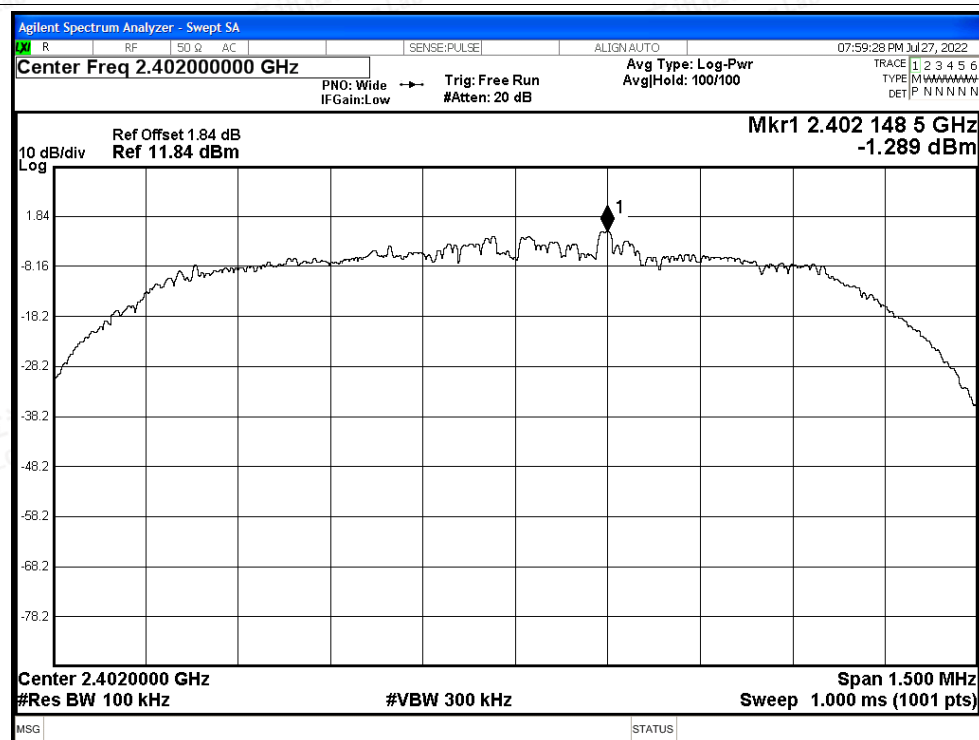


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

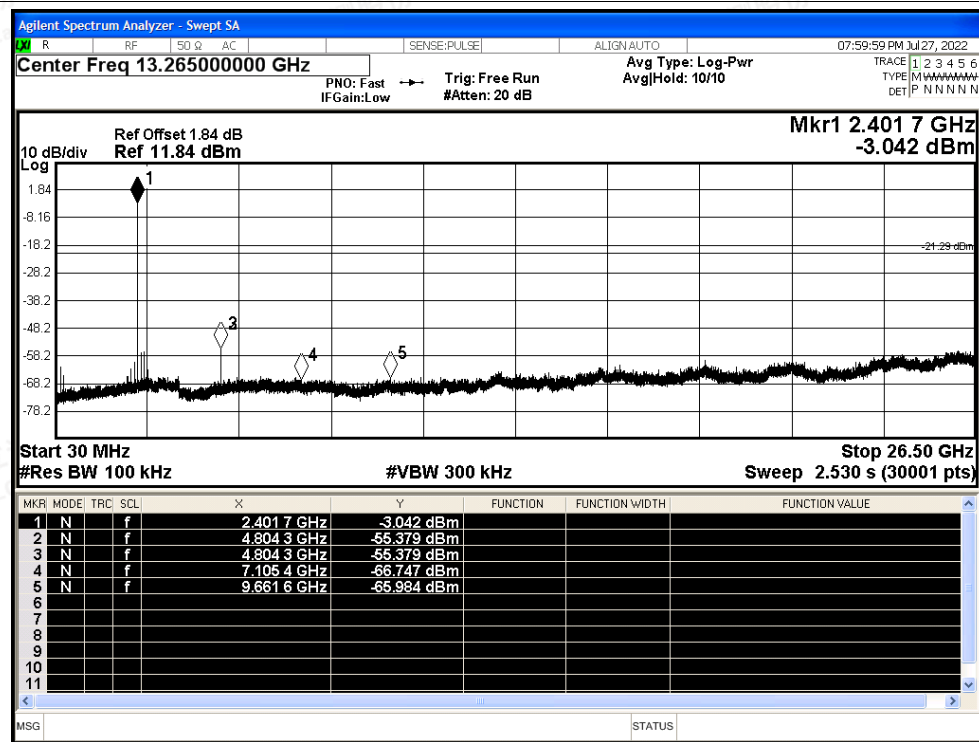




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

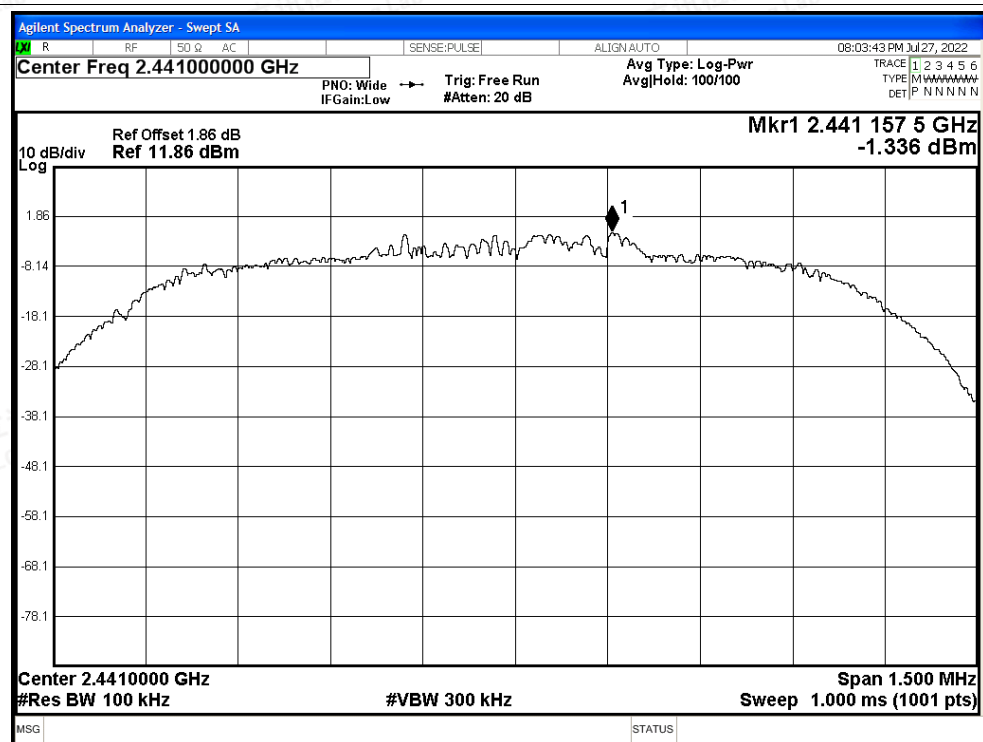


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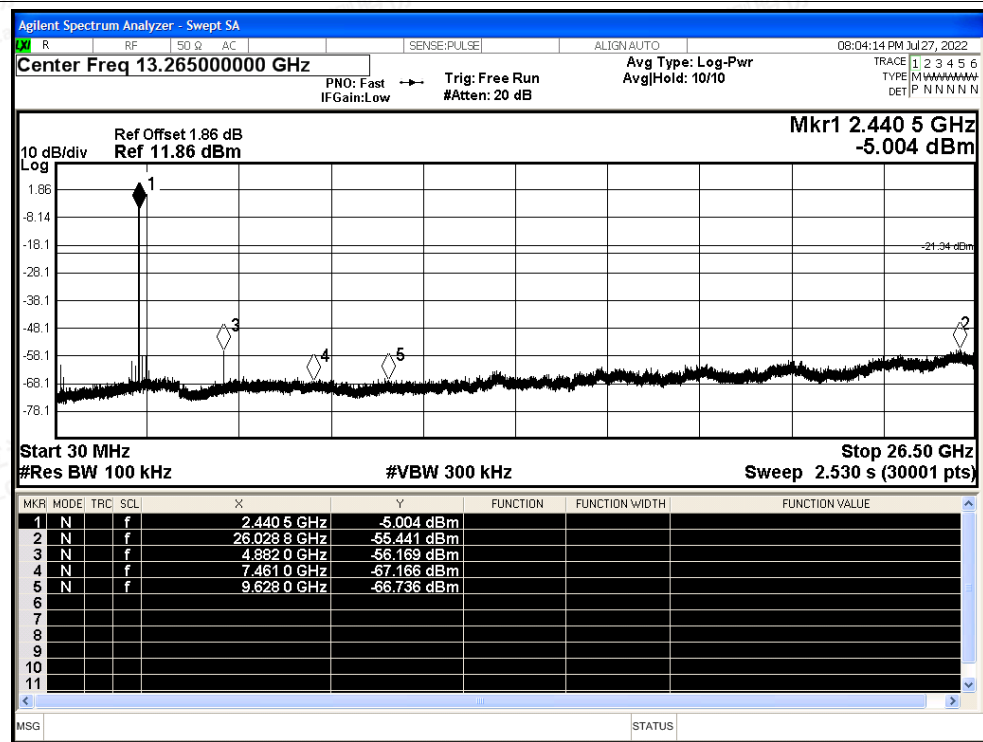




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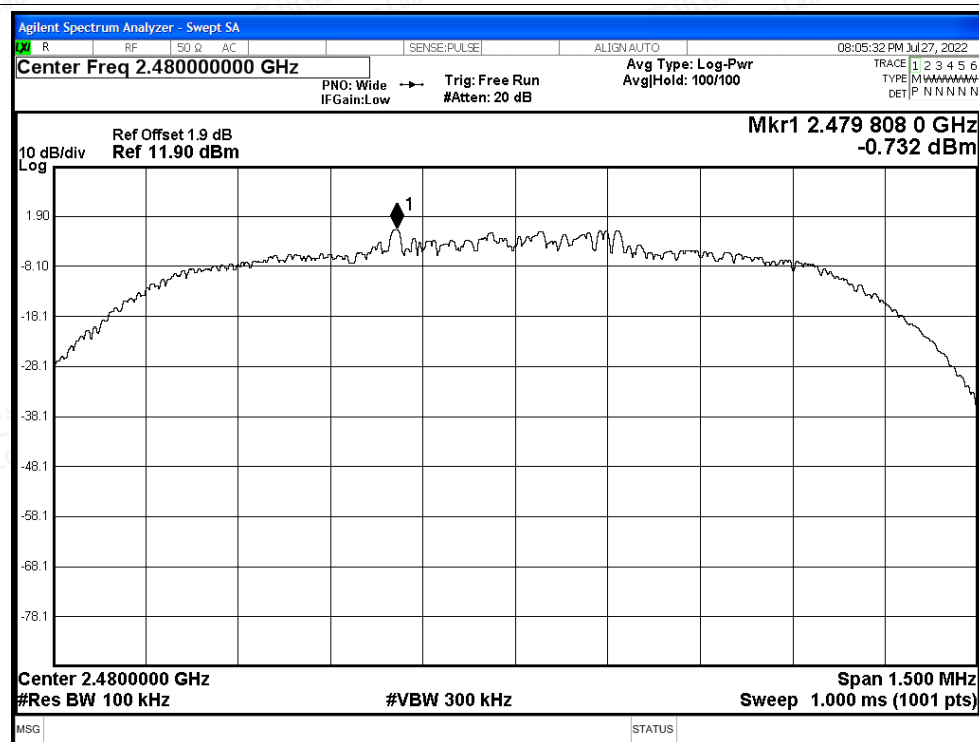


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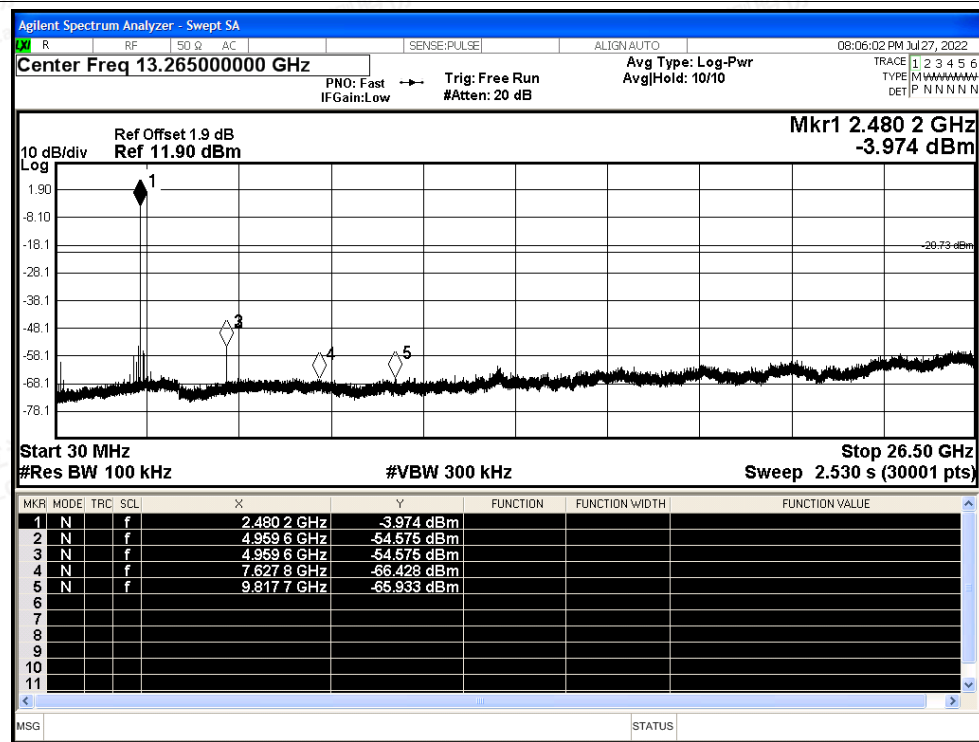




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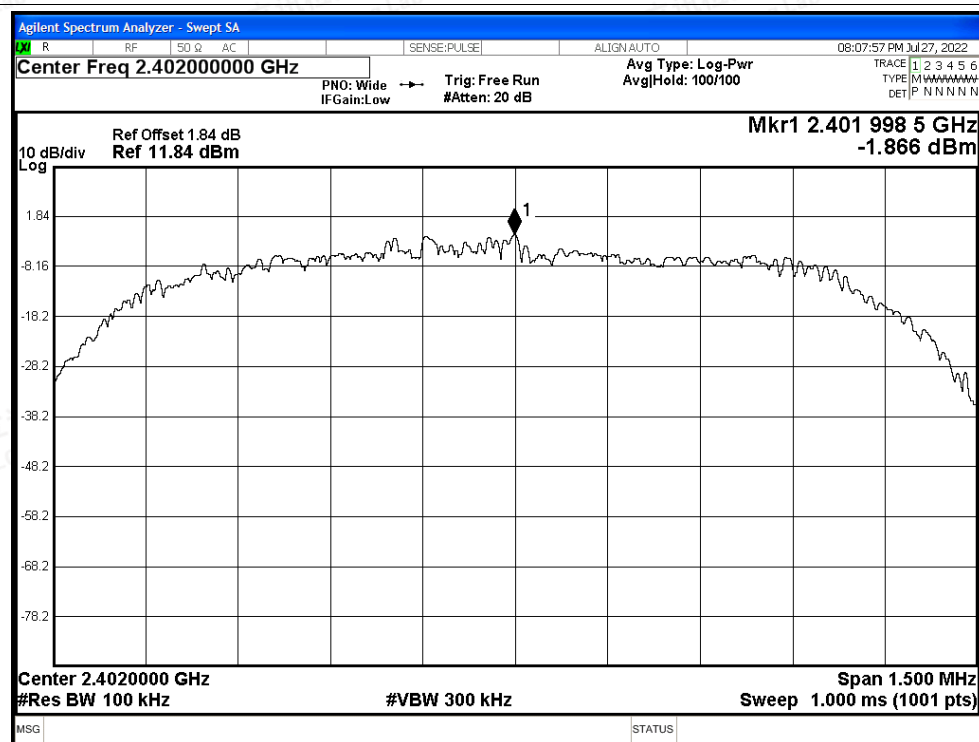


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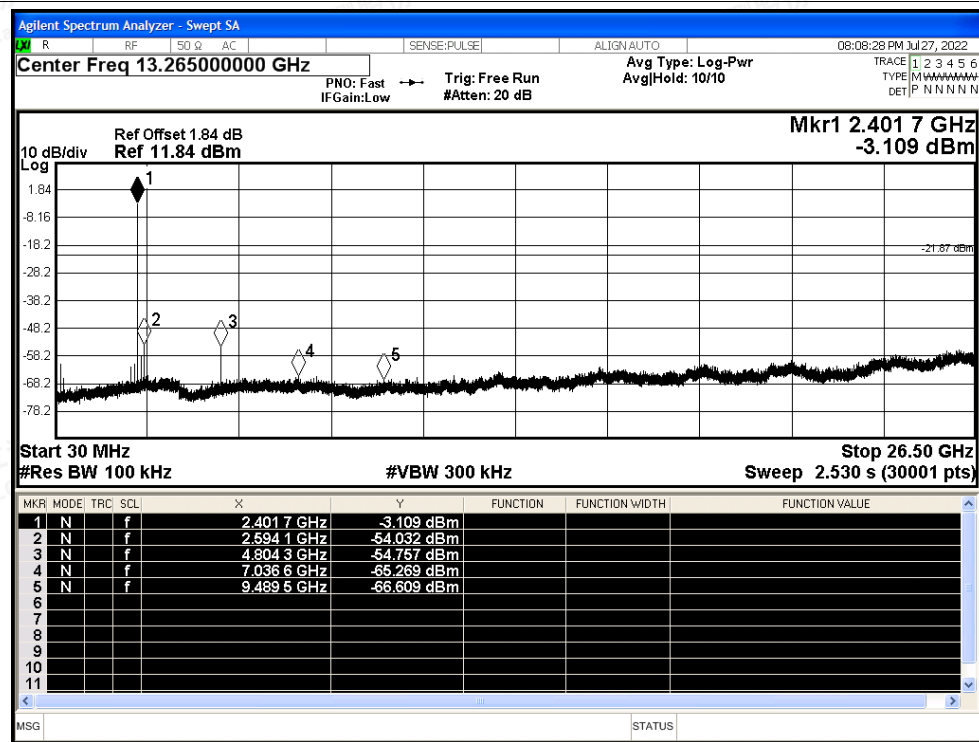




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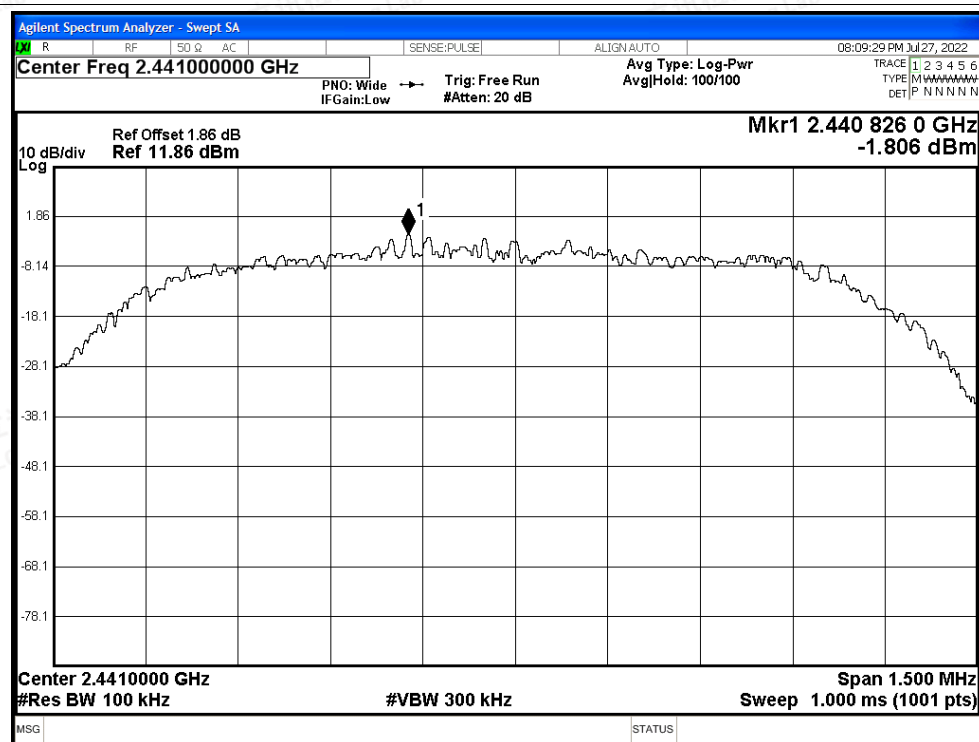


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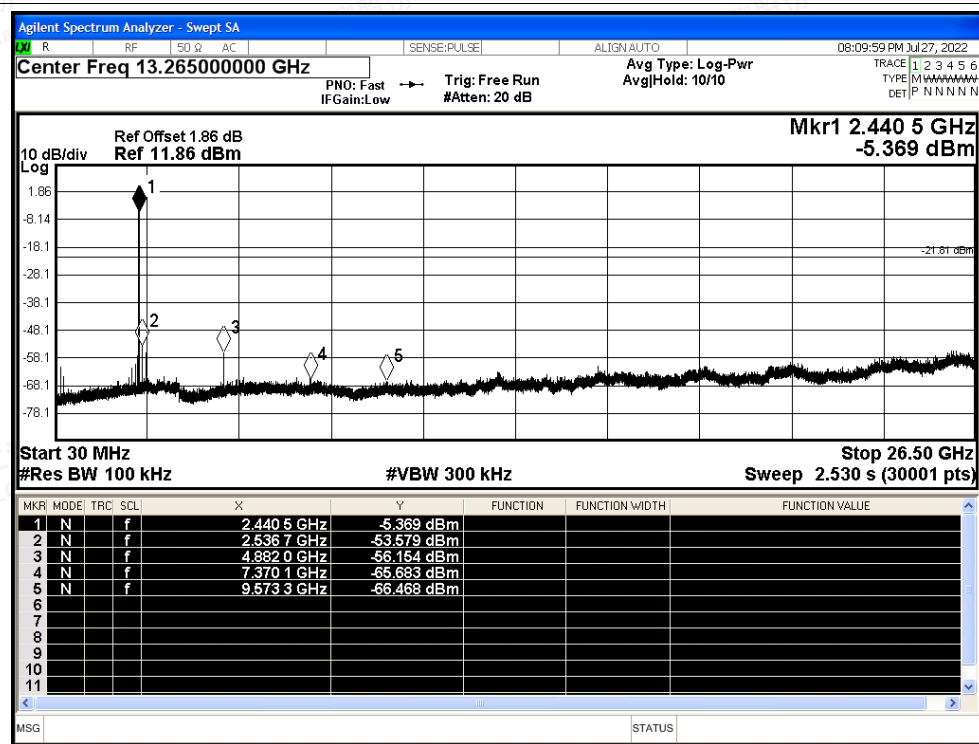




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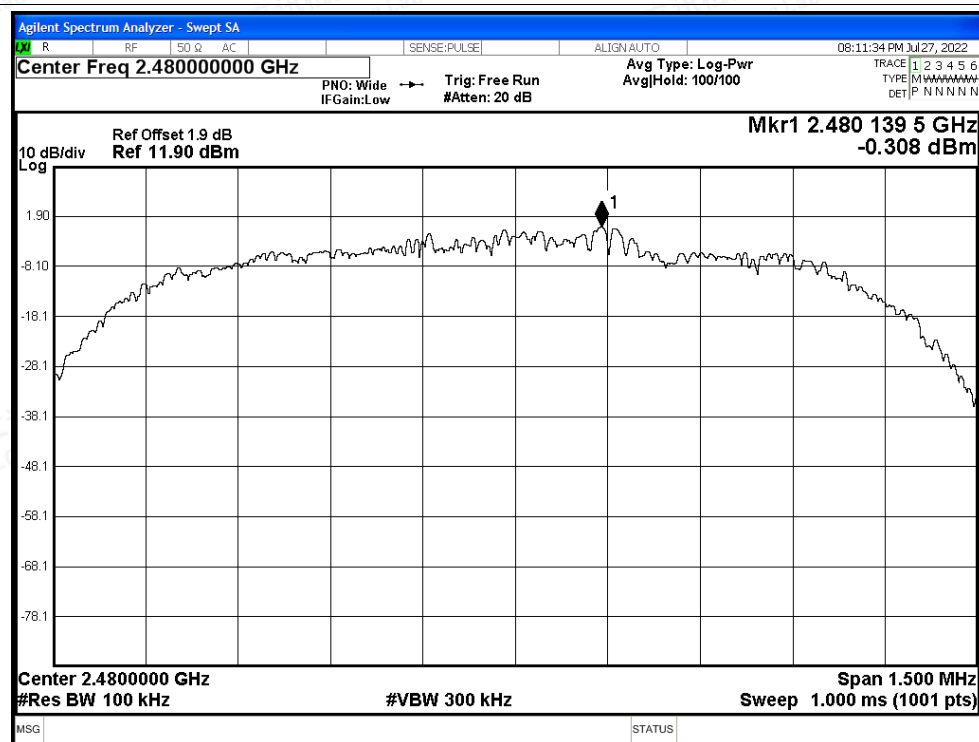


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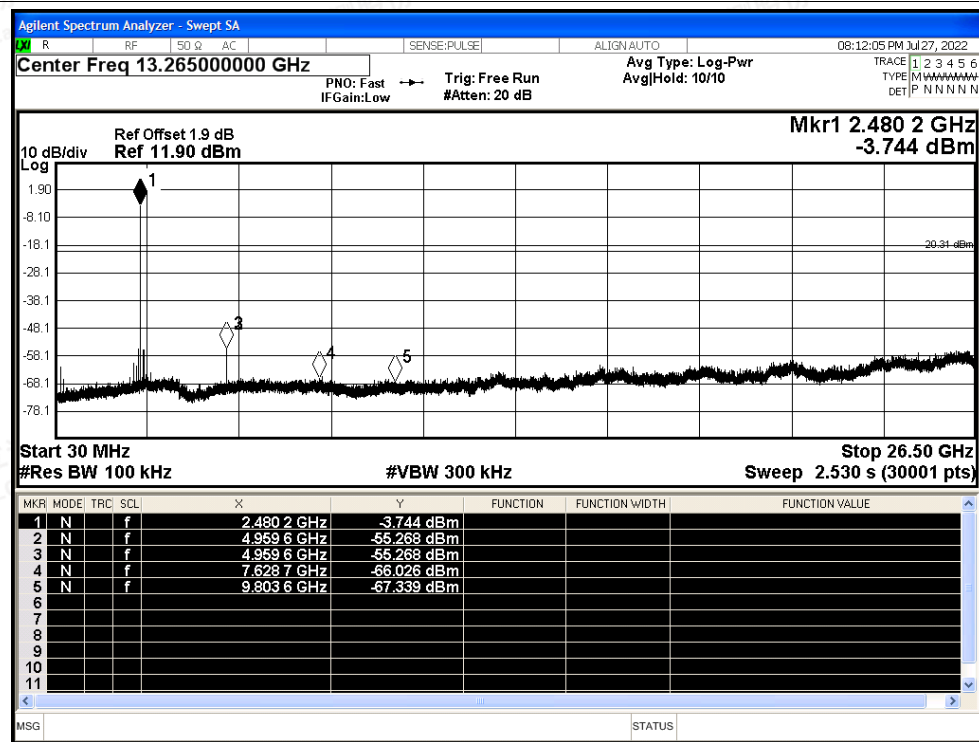




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

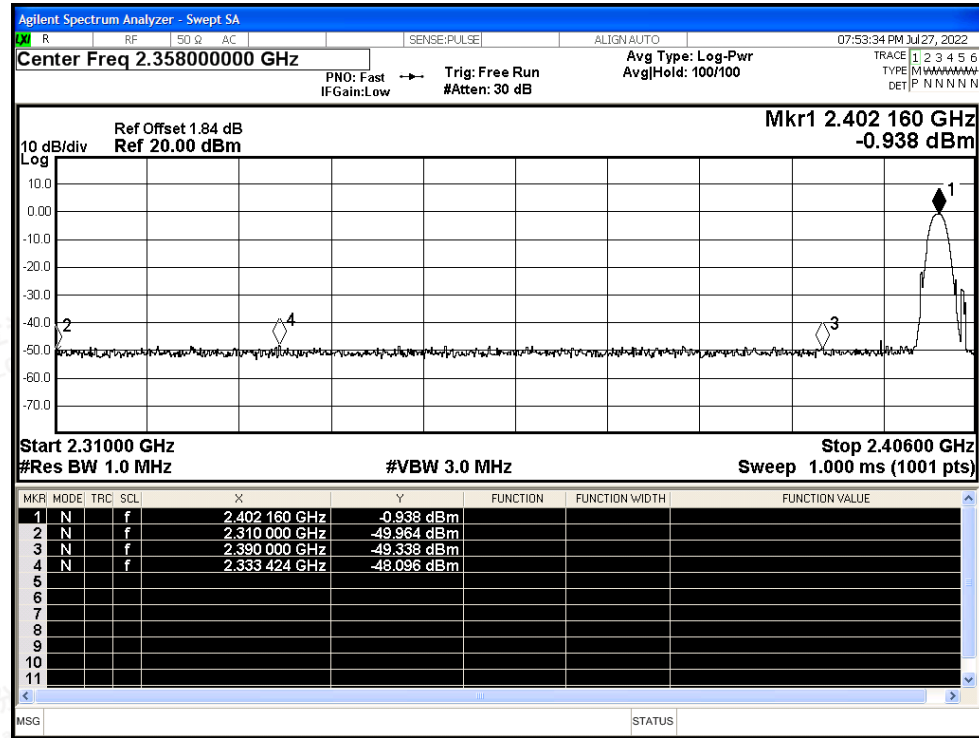
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.96	4.9	50.17	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.84	4.9	39.29	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2333.424	-48.1	4.9	52.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.416	-60.35	4.9	39.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.94	4.9	51.19	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.46	4.9	39.67	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-34.12	4.9	66.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-60.29	4.9	39.84	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-34.12	4.9	66.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.48	-60.04	4.9	40.09	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.65	4.9	49.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.15	4.9	39.98	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.86	4.9	50.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.93	4.9	39.20	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.12	-48.26	4.9	51.87	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.072	-60.36	4.9	39.77	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.77	4.9	48.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.49	4.9	39.64	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.12	4.9	49.01	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.86	4.9	40.27	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.8	-36.45	4.9	63.68	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-59.84	4.9	40.29	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.91	4.9	49.22	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.17	4.9	39.96	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.9	4.9	51.23	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.81	4.9	39.32	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2340.816	-48.19	4.9	51.94	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.104	-60.39	4.9	39.74	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.97	4.9	52.16	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.42	4.9	39.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.01	4.9	50.12	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.83	4.9	40.30	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.136	-38.03	4.9	62.10	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-59.83	4.9	40.30	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.91	4.9	49.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.15	4.9	39.98	Average	54	Pass



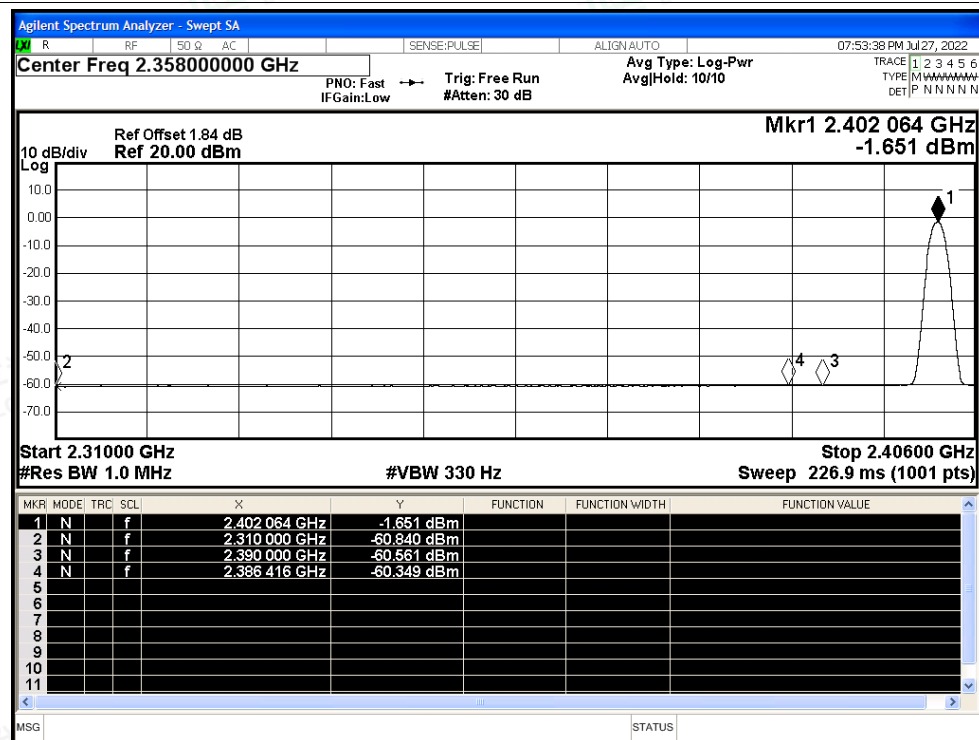


Test Graphs

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

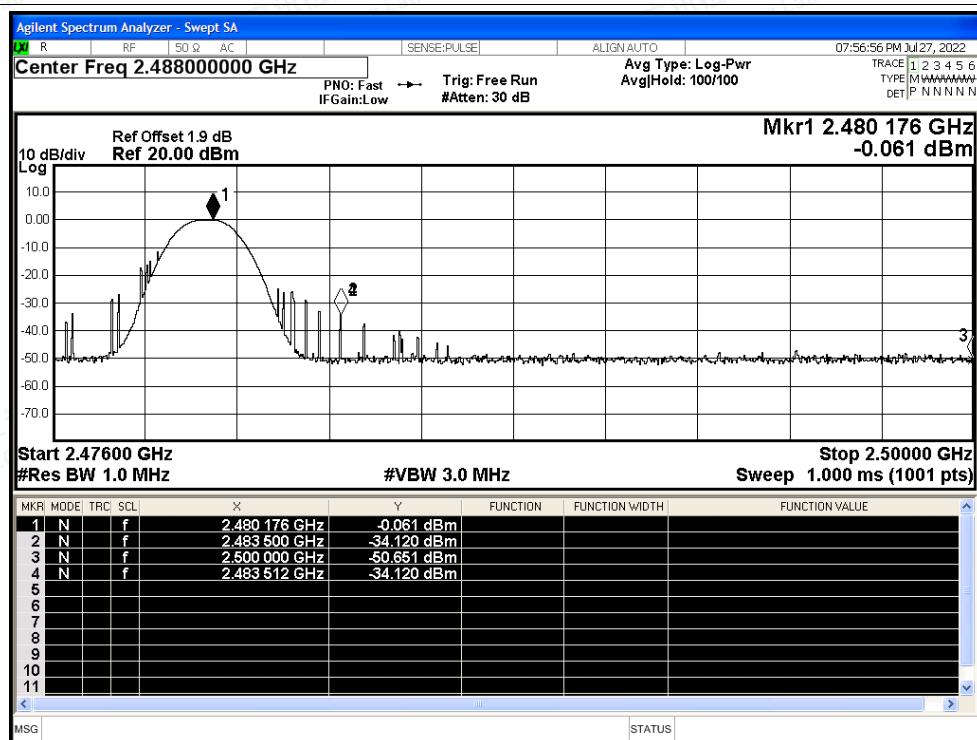


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

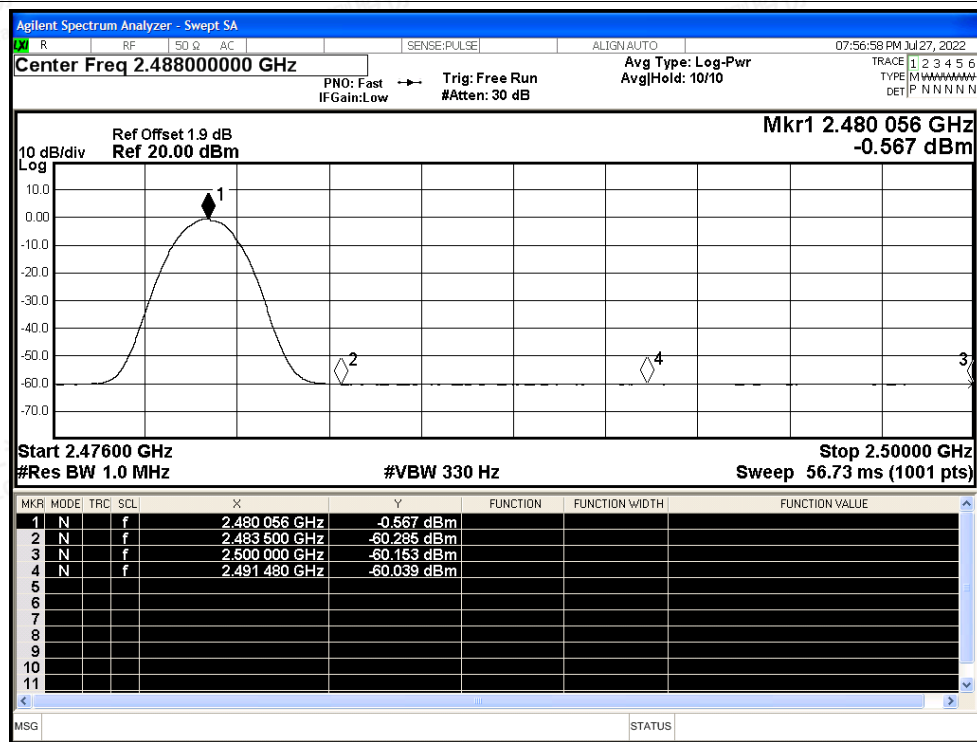




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

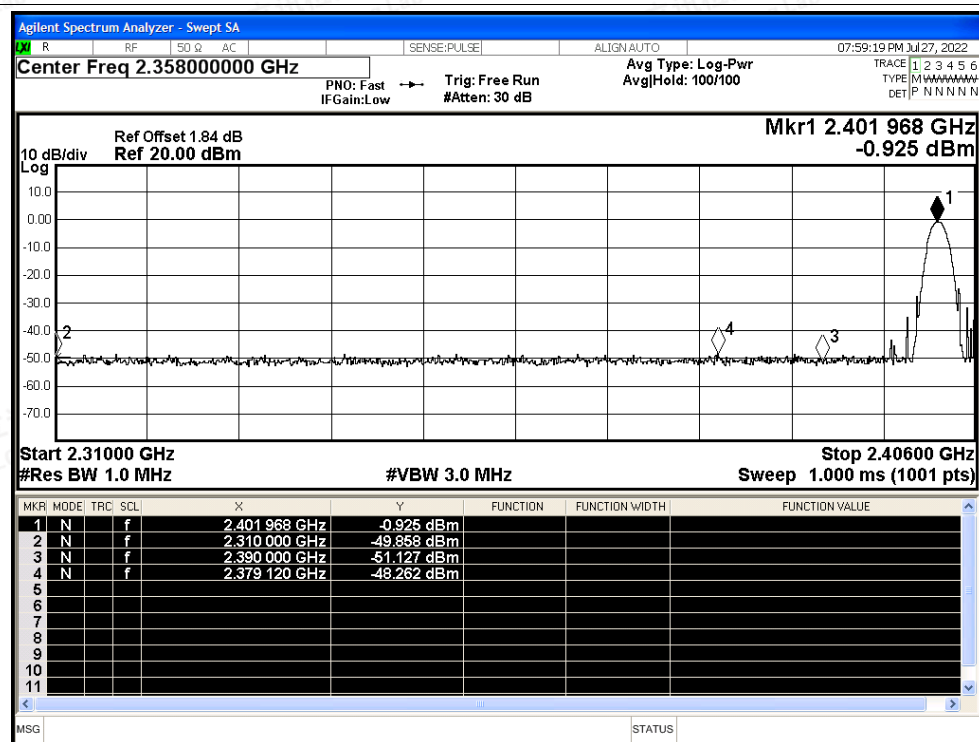


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

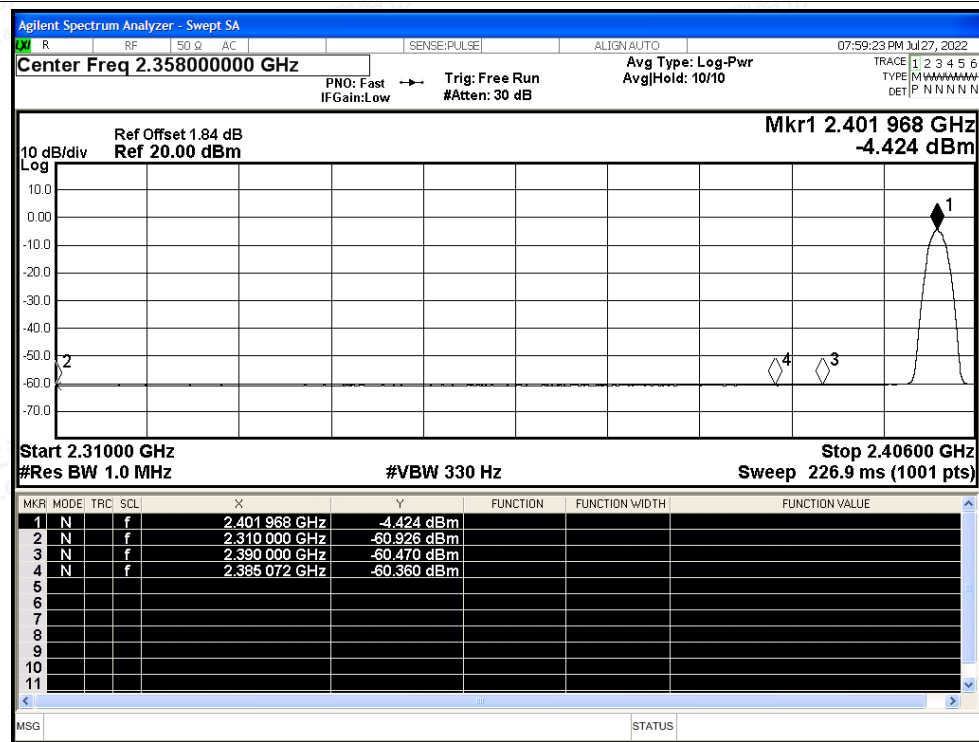




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

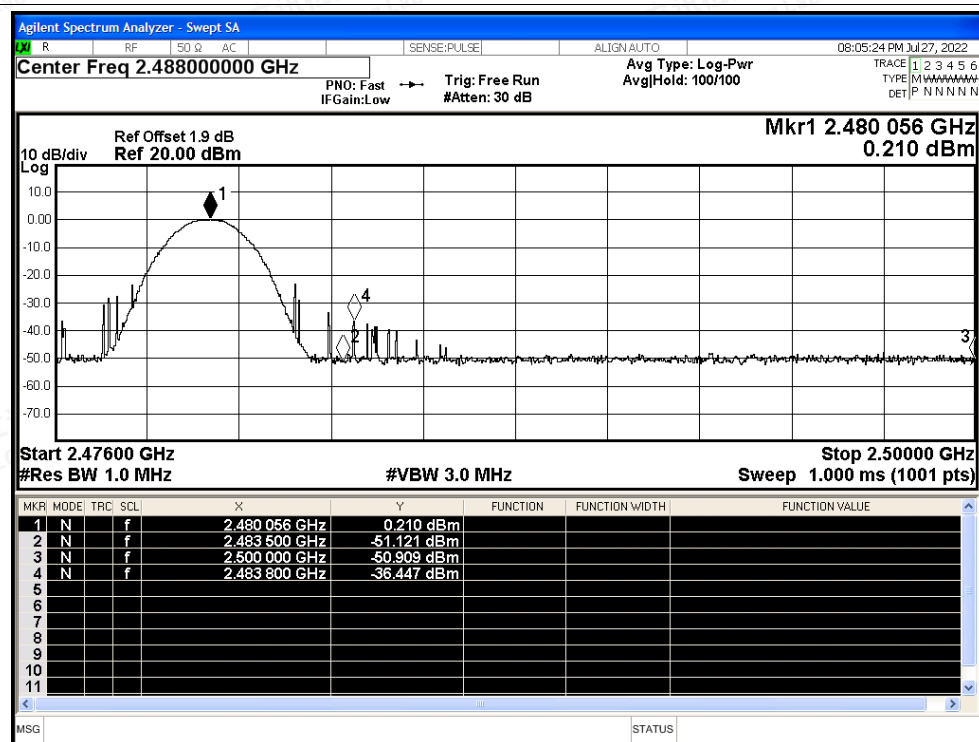


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

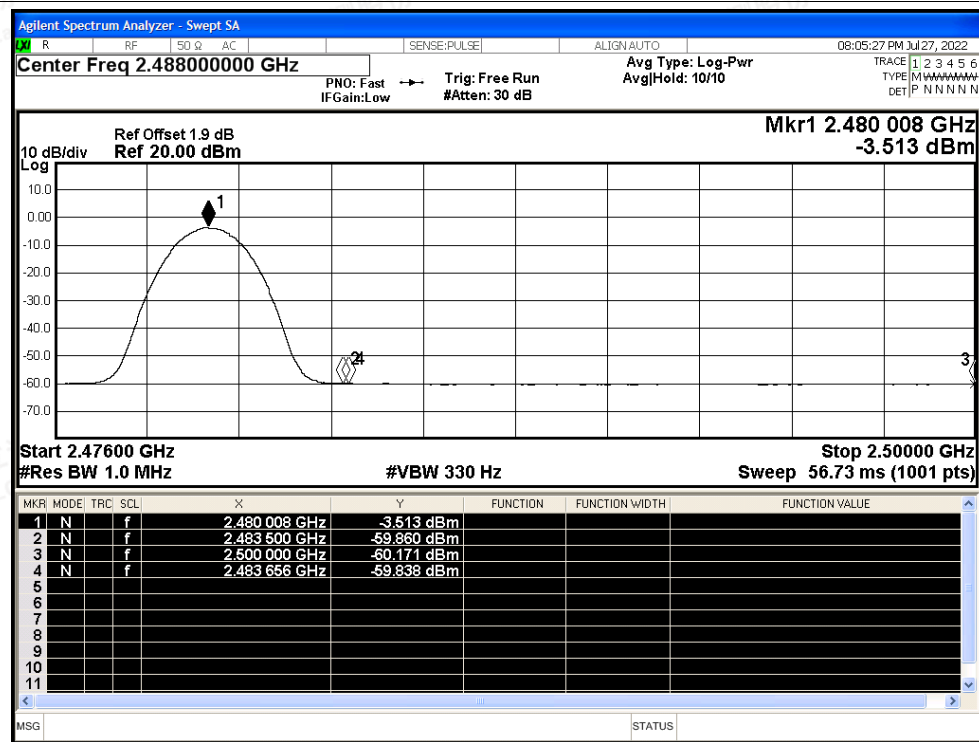




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

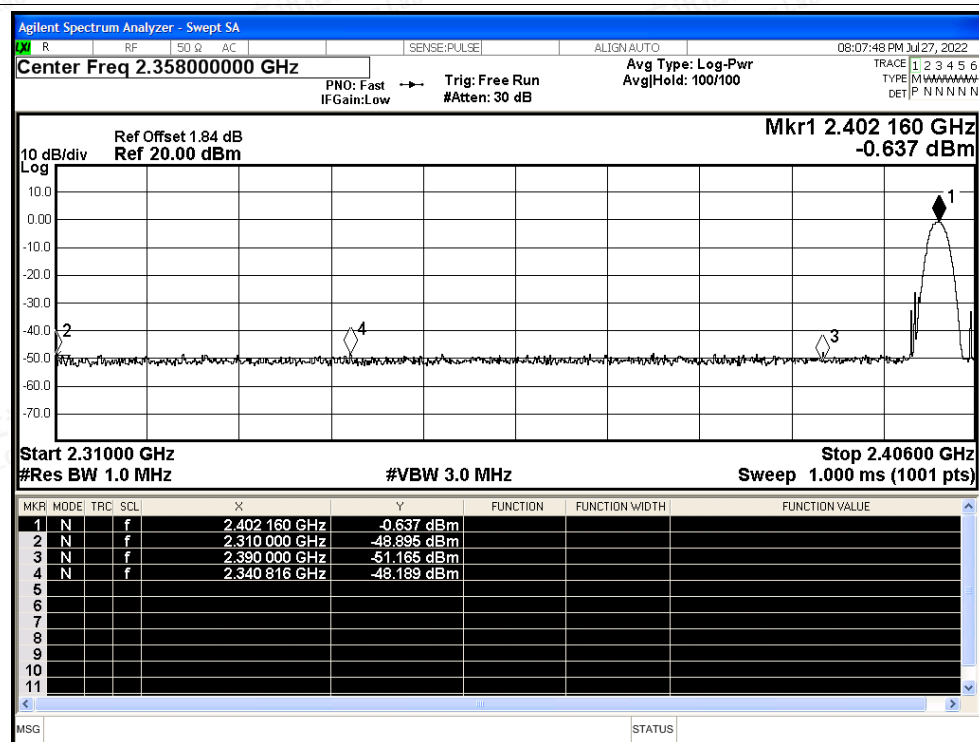


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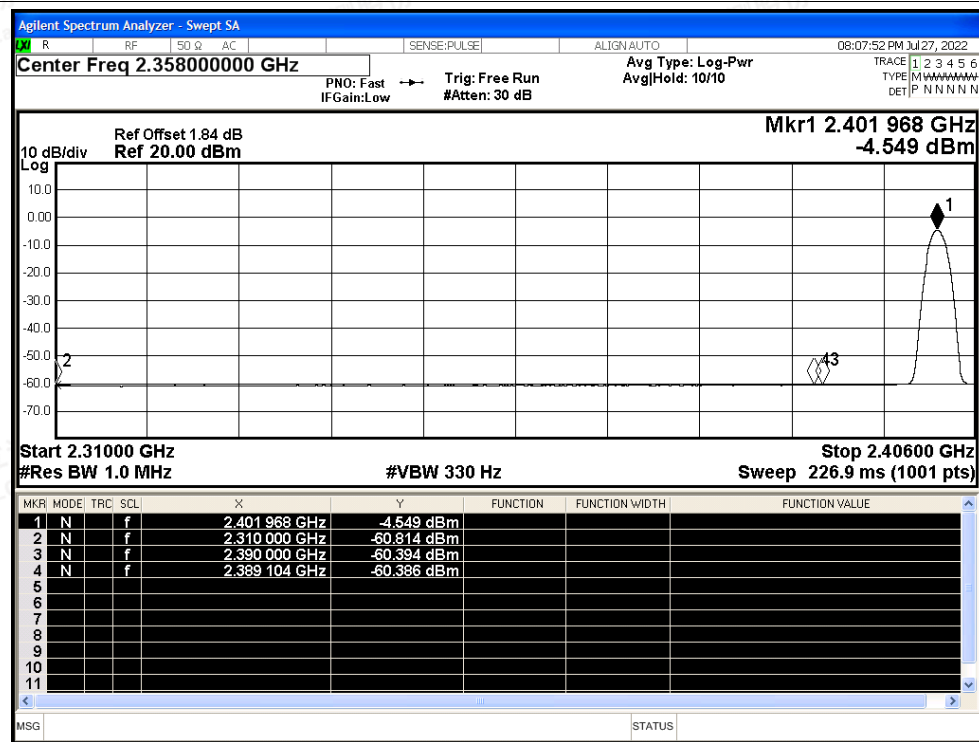




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

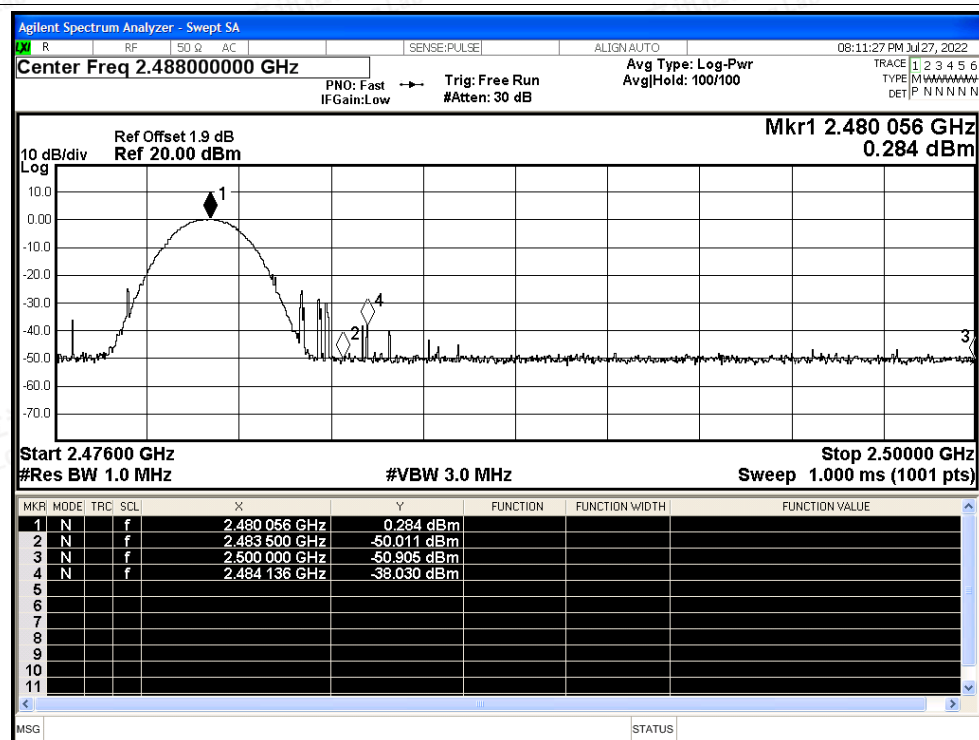


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

