



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: V40071W TWS Earbuds with Charging Case

Test Model: V40071W

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>Ling.Zhu</i> 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	0.969	NA	Pass
NVNT	1-DH5	2441	Ant1	1.018	NA	Pass
NVNT	1-DH5	2480	Ant1	1.031	NA	Pass
NVNT	2-DH5	2402	Ant1	1.284	NA	Pass
NVNT	2-DH5	2441	Ant1	1.285	NA	Pass
NVNT	2-DH5	2480	Ant1	1.292	NA	Pass
NVNT	3-DH5	2402	Ant1	1.284	NA	Pass
NVNT	3-DH5	2441	Ant1	1.305	NA	Pass
NVNT	3-DH5	2480	Ant1	1.288	NA	Pass

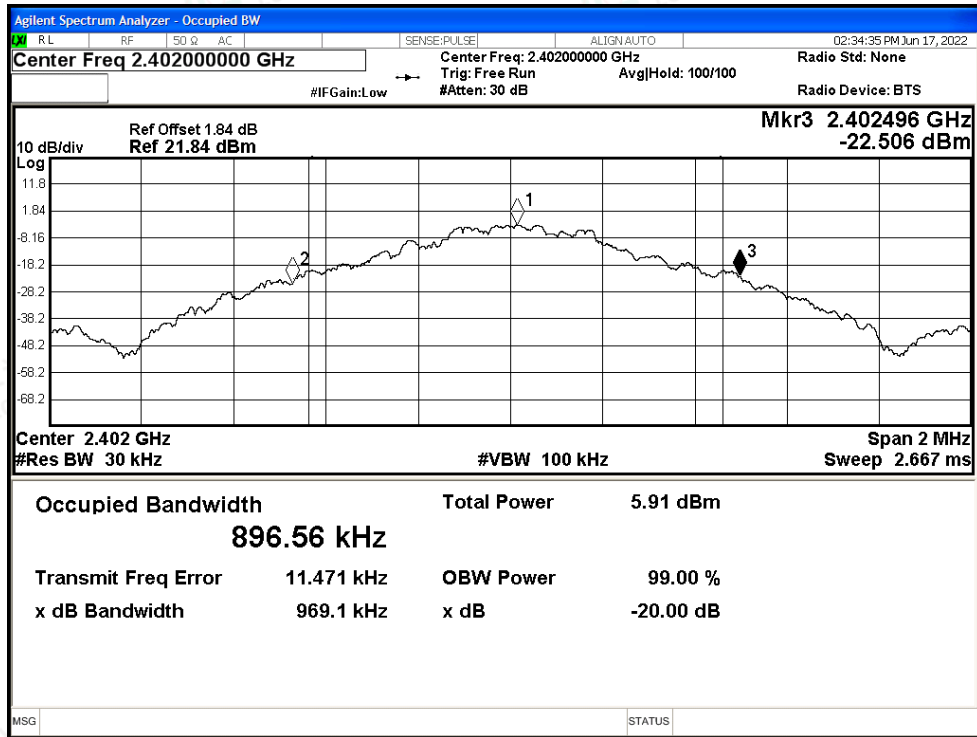


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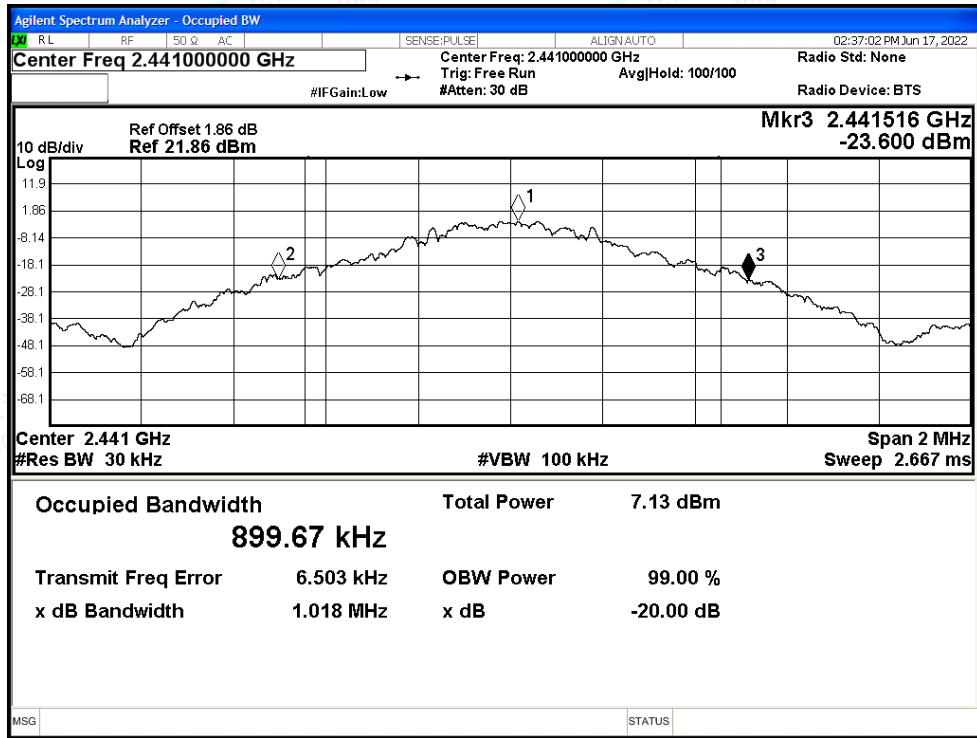


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

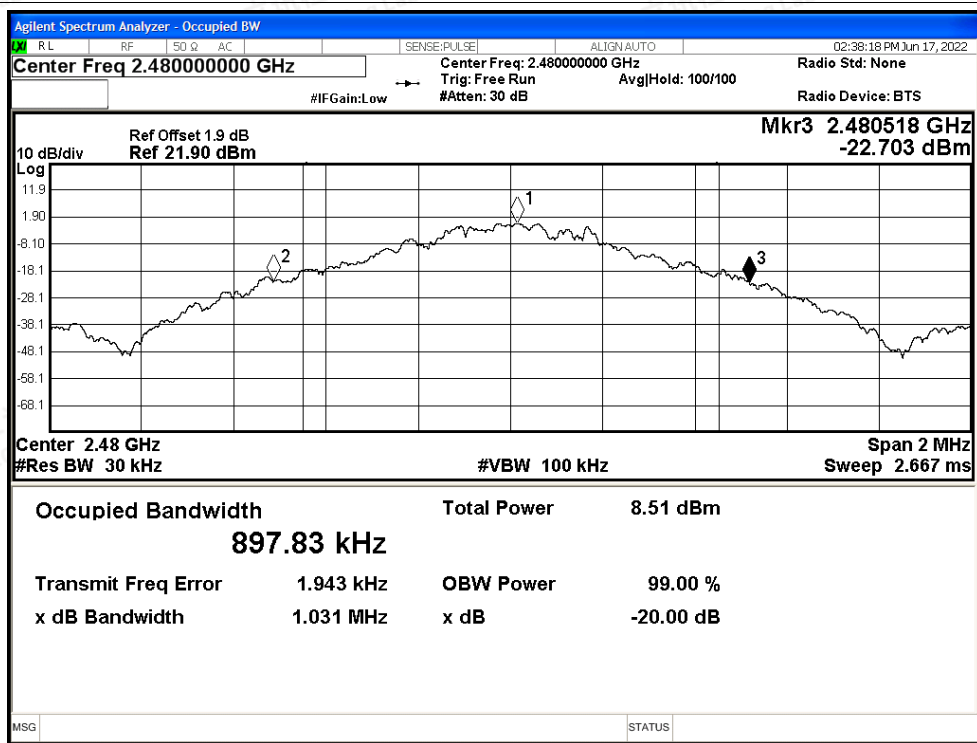


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

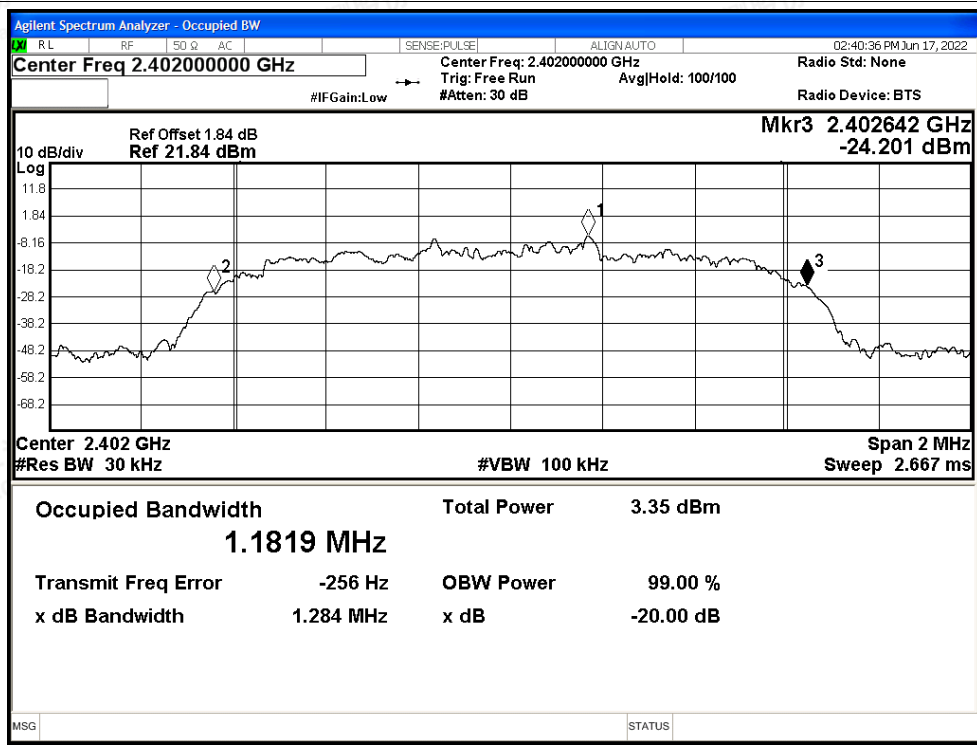




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

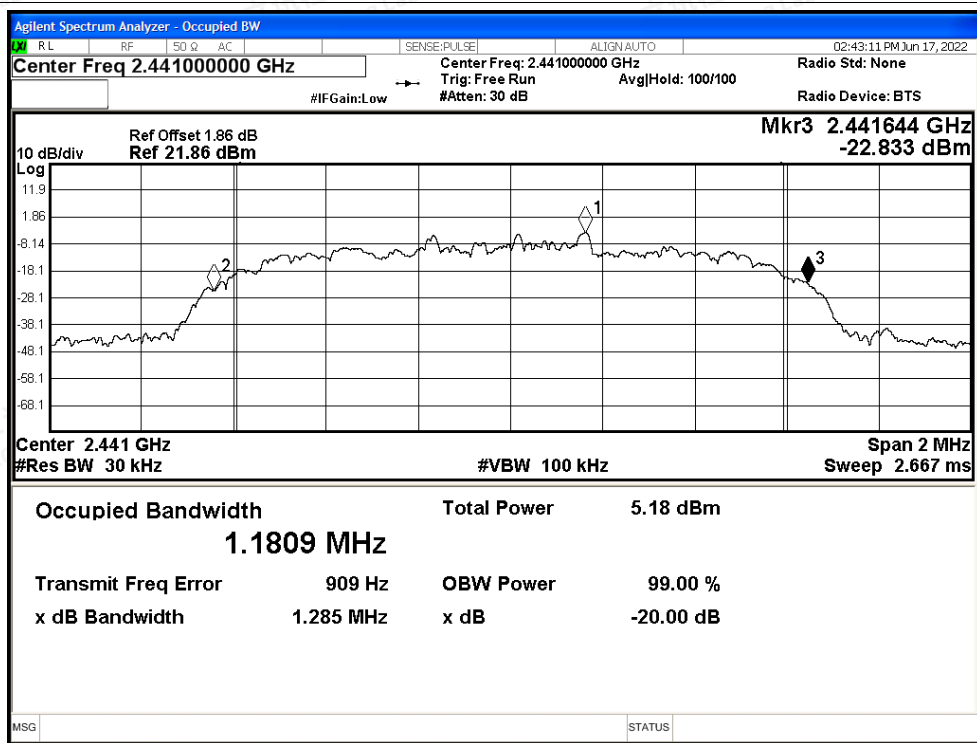


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

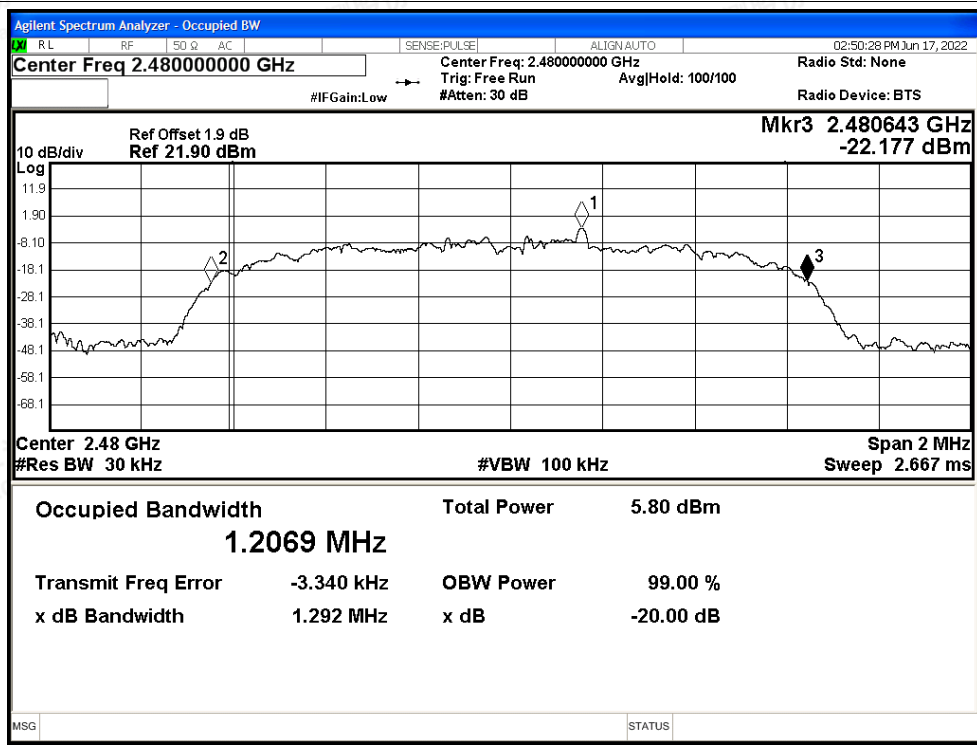




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

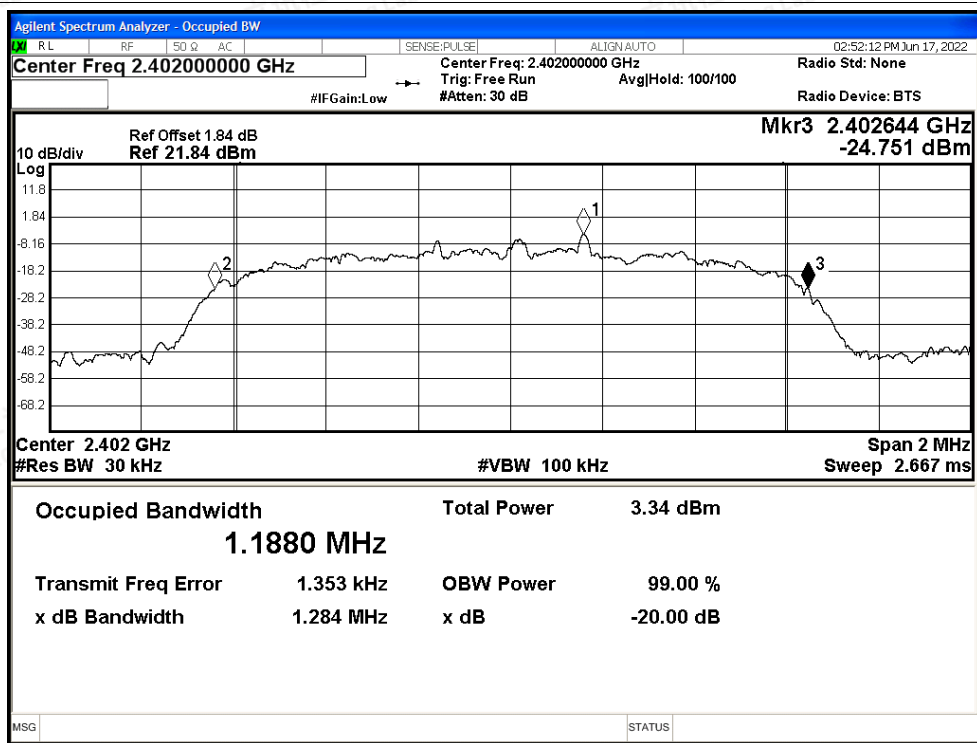


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

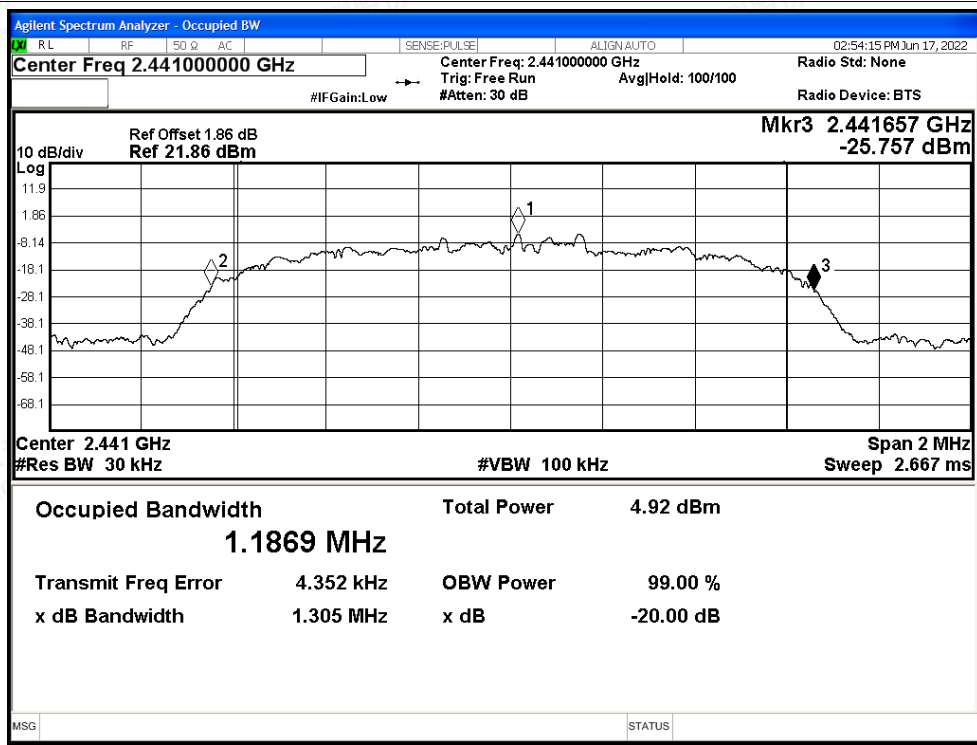


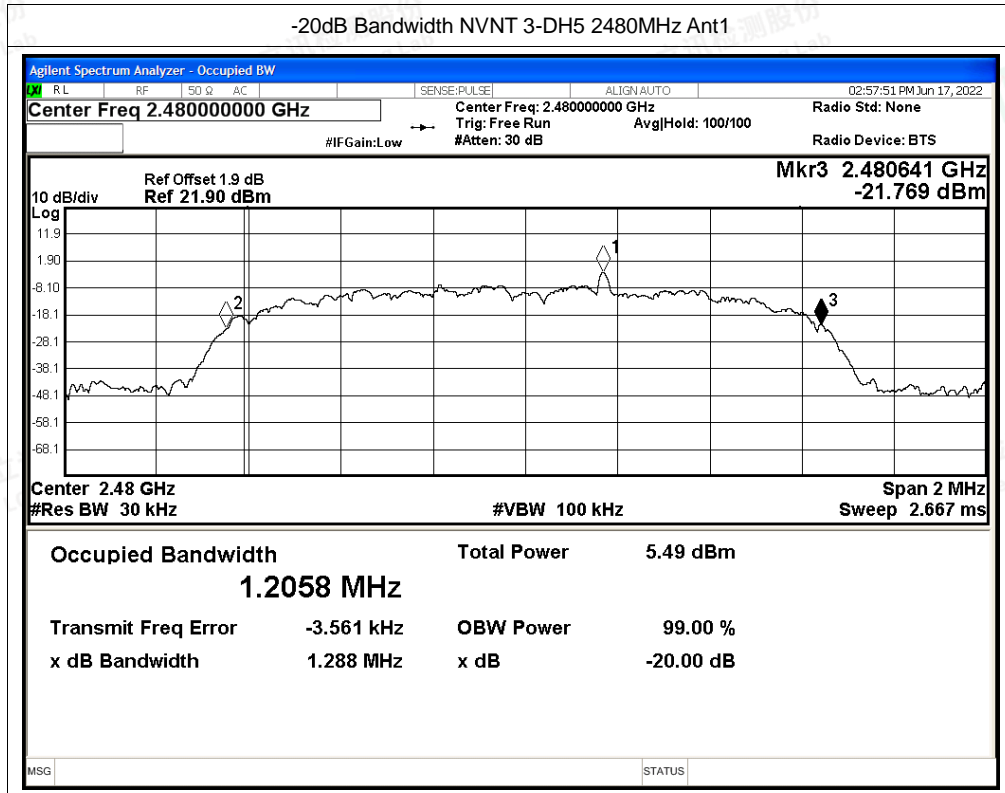


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Peak Conducted Output Power

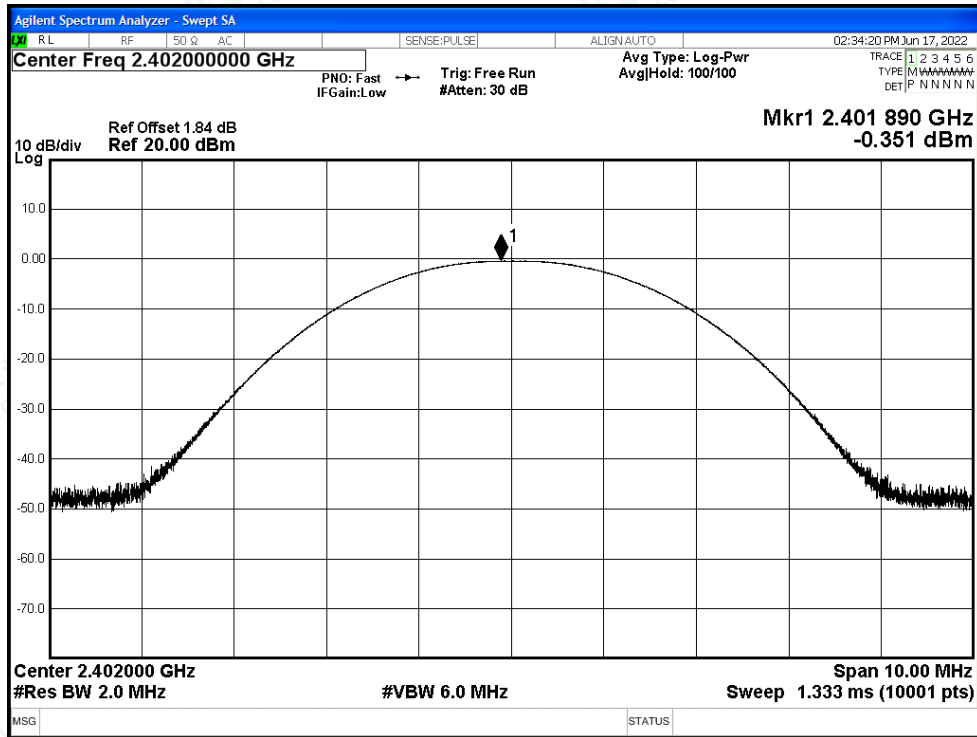
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.35	0	-0.35	21	Pass
NVNT	1-DH5	2441	Ant1	0.82	0	0.82	21	Pass
NVNT	1-DH5	2480	Ant1	2.3	0	2.3	21	Pass
NVNT	2-DH5	2402	Ant1	-1.38	0	-1.38	21	Pass
NVNT	2-DH5	2441	Ant1	0.07	0	0.07	21	Pass
NVNT	2-DH5	2480	Ant1	1.51	0	1.51	21	Pass
NVNT	3-DH5	2402	Ant1	-1.26	0	-1.26	21	Pass
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NVNT	3-DH5	2480	Ant1	1.28	0	1.28	21	Pass



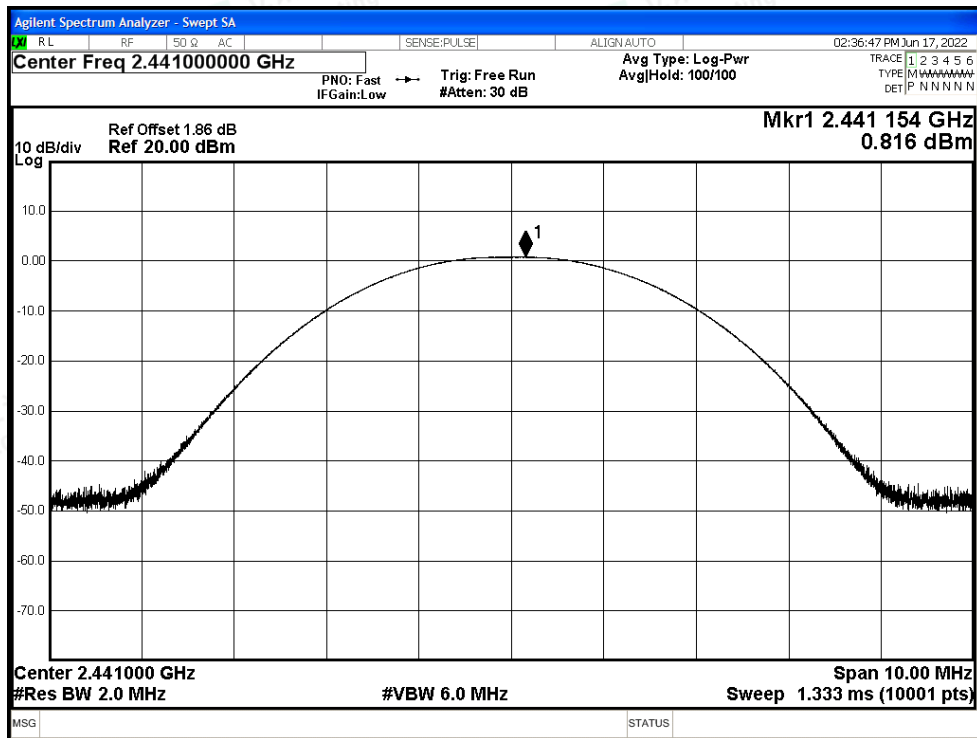


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

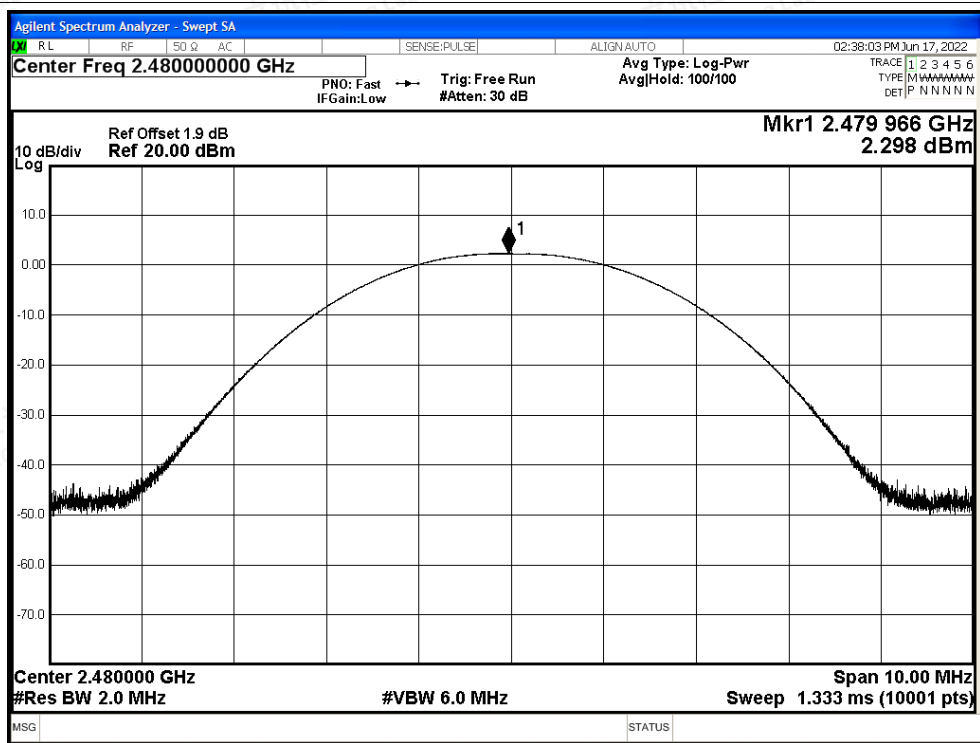


Power NVNT 1-DH5 2441MHz Ant1

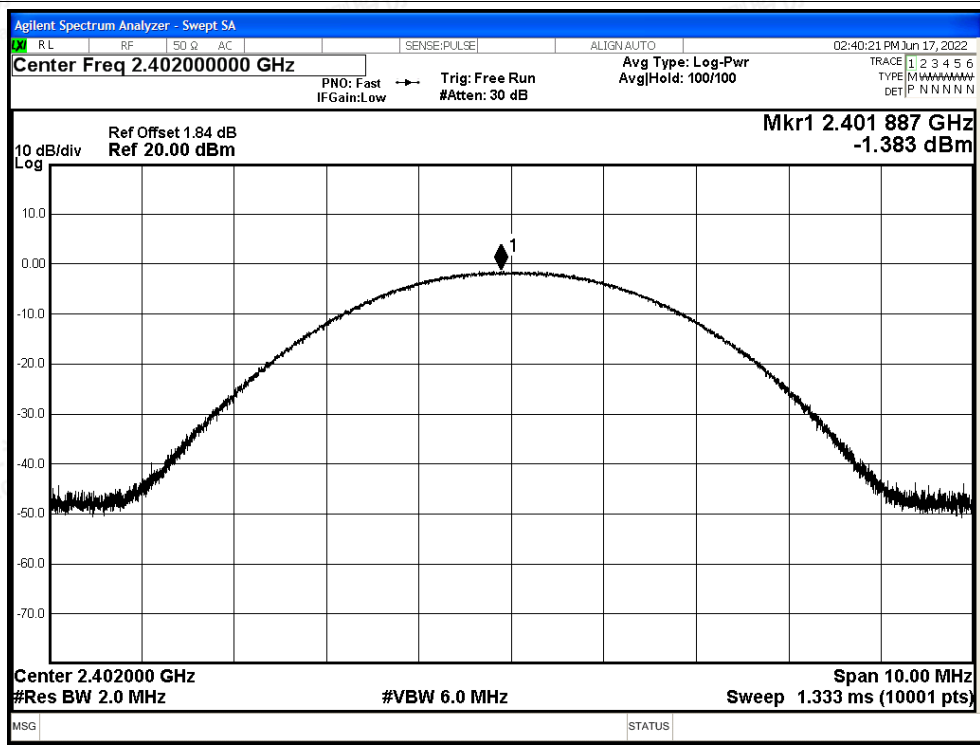


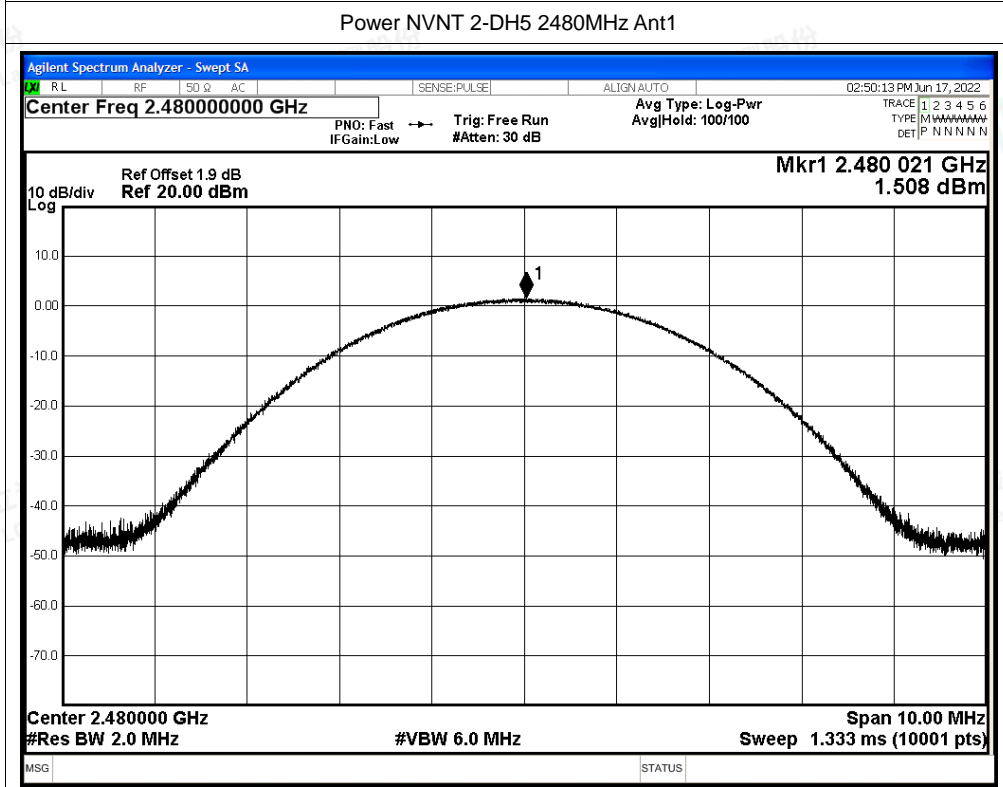
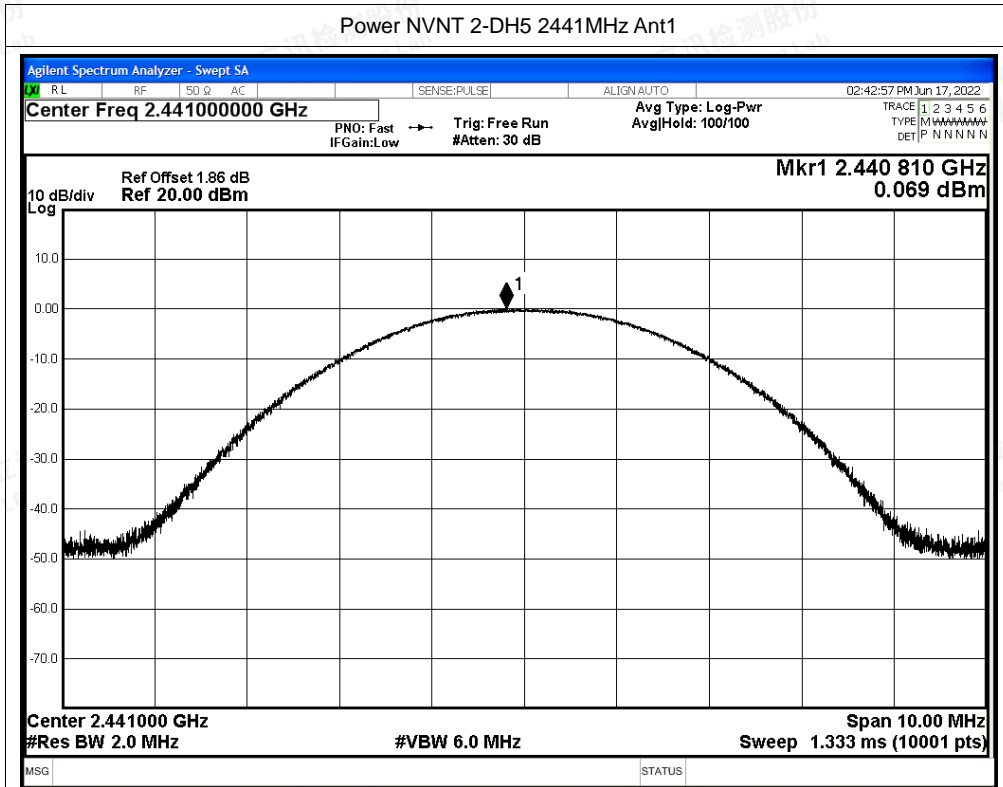


Power NVNT 1-DH5 2480MHz Ant1



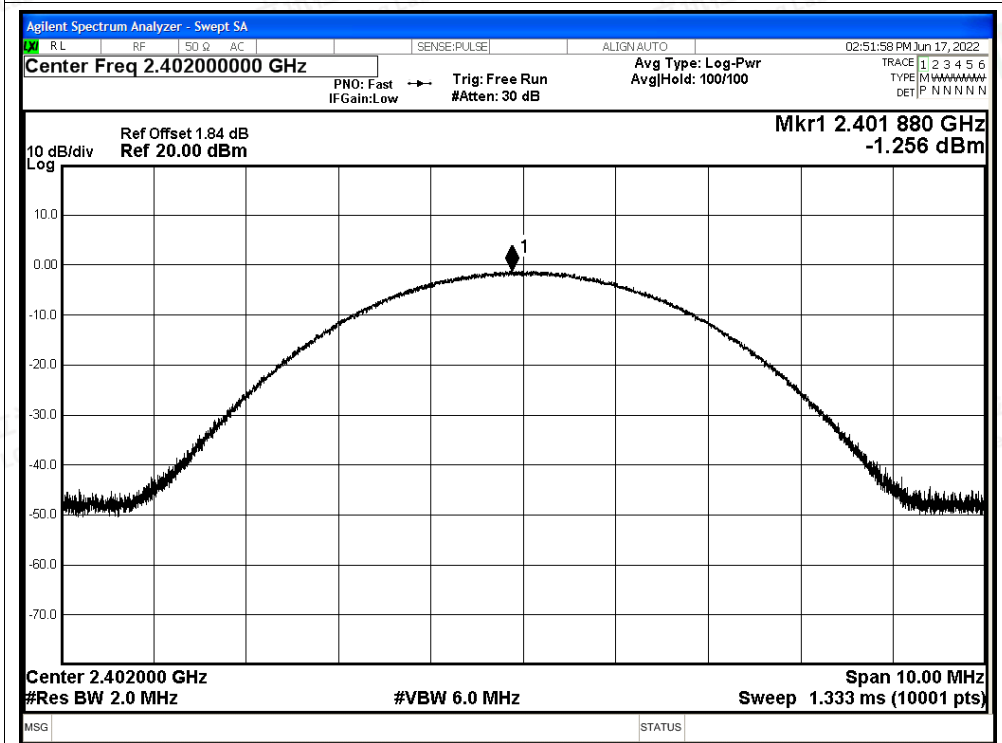
Power NVNT 2-DH5 2402MHz Ant1



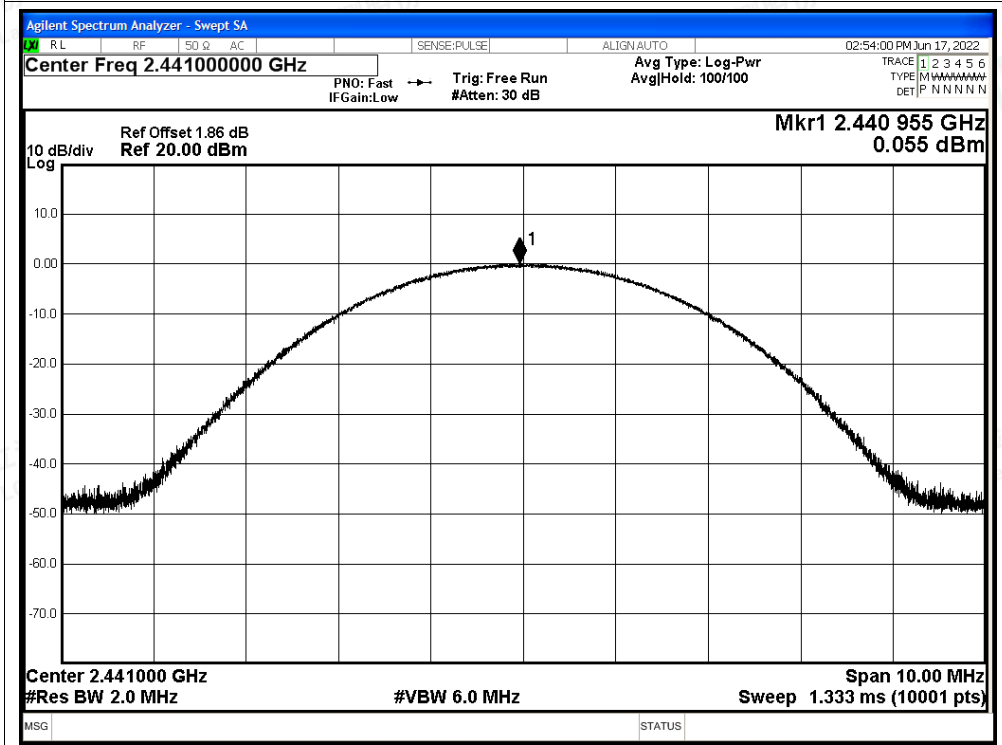


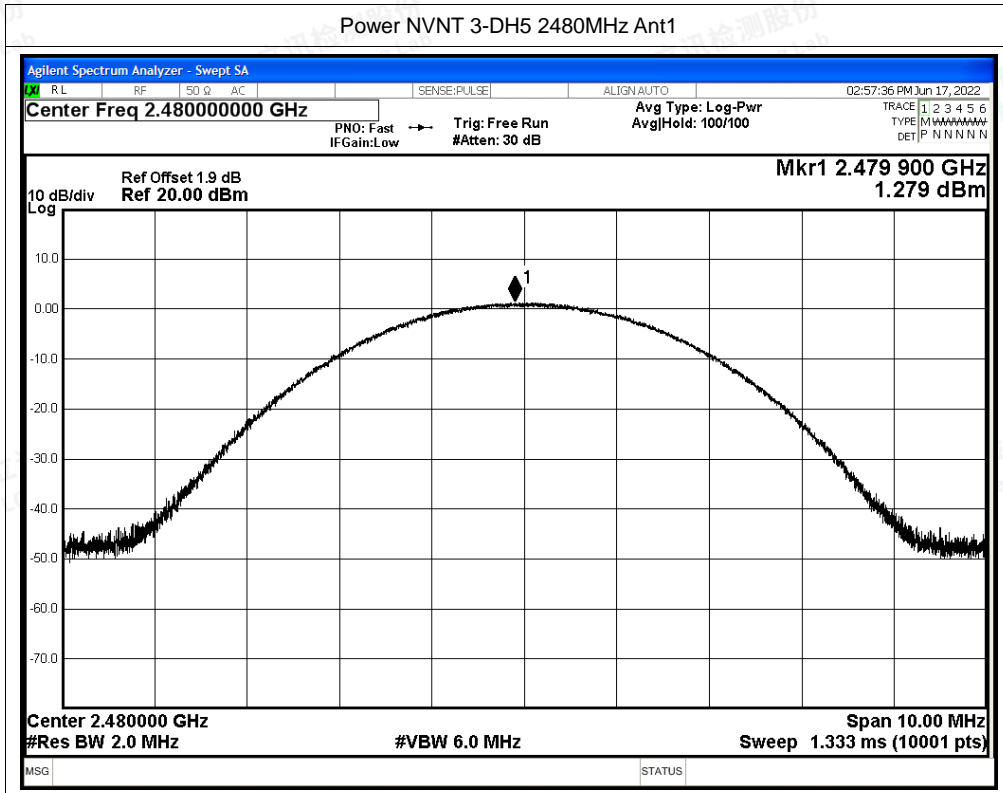


Power NVNT 3-DH5 2402MHz Ant1



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	2401.972	2402.99	1.018	0.646	Pass
NVNT	2-DH5	Ant1	2402.162	2403.164	1.002	0.856	Pass
NVNT	3-DH5	Ant1	2402.024	2403.02	0.996	0.856	Pass

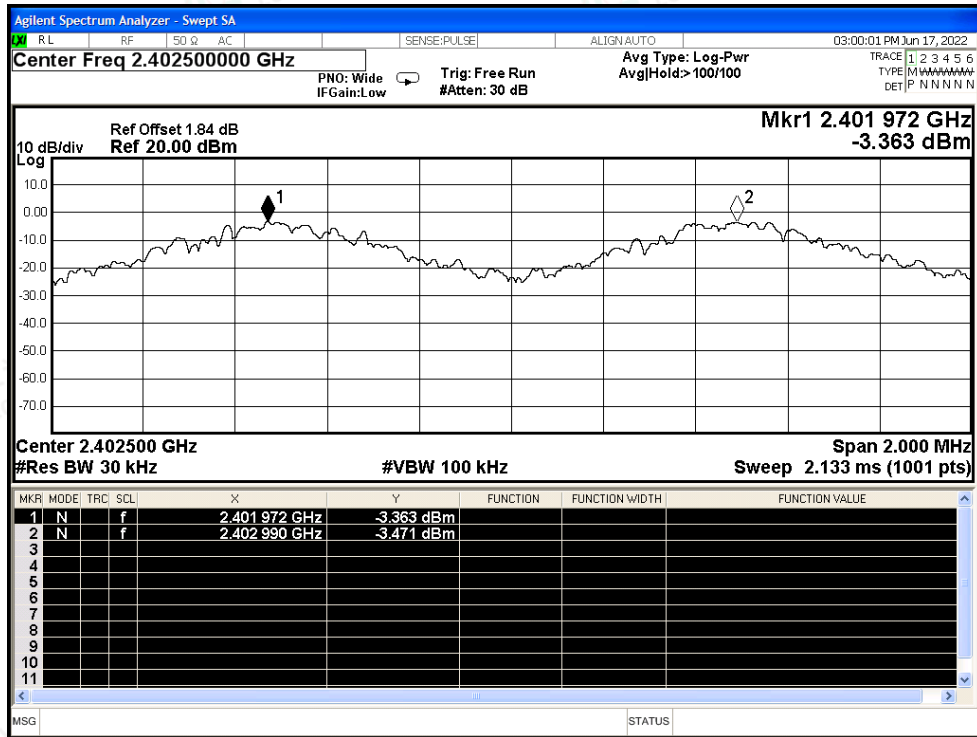


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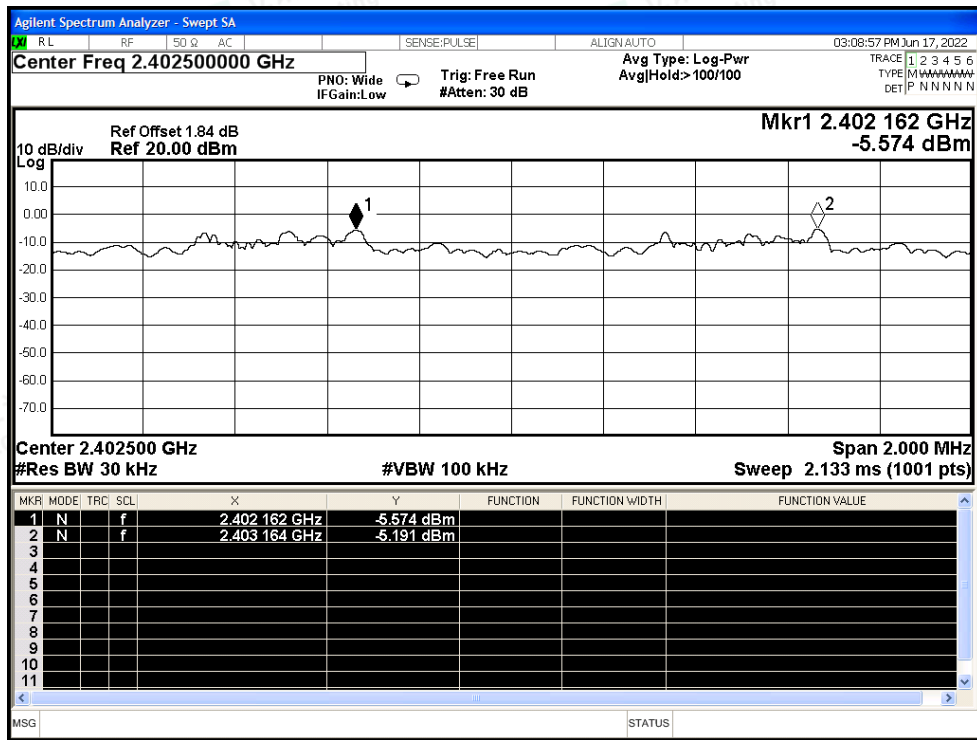


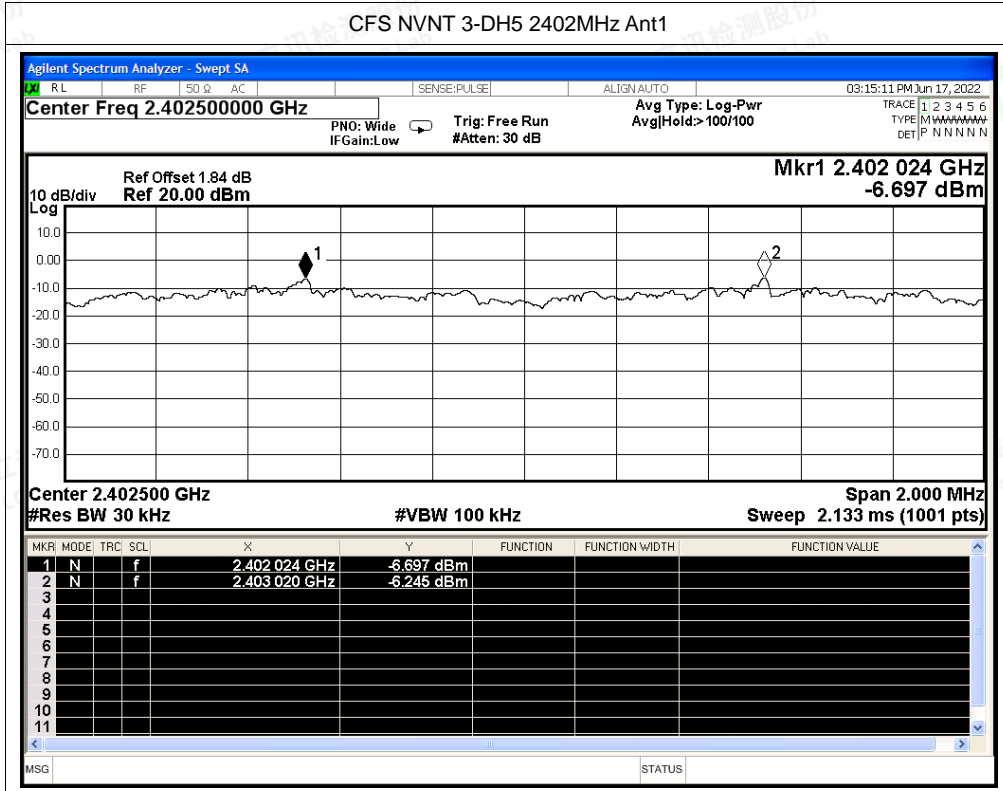
Test Graphs

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	2.882	276.672	96	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.881	305.386	106	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	273.79	95	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	320.235	111	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	308.695	107	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.883	311.364	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	334.776	116	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.885	305.81	106	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	329.118	114	31600	400	Pass

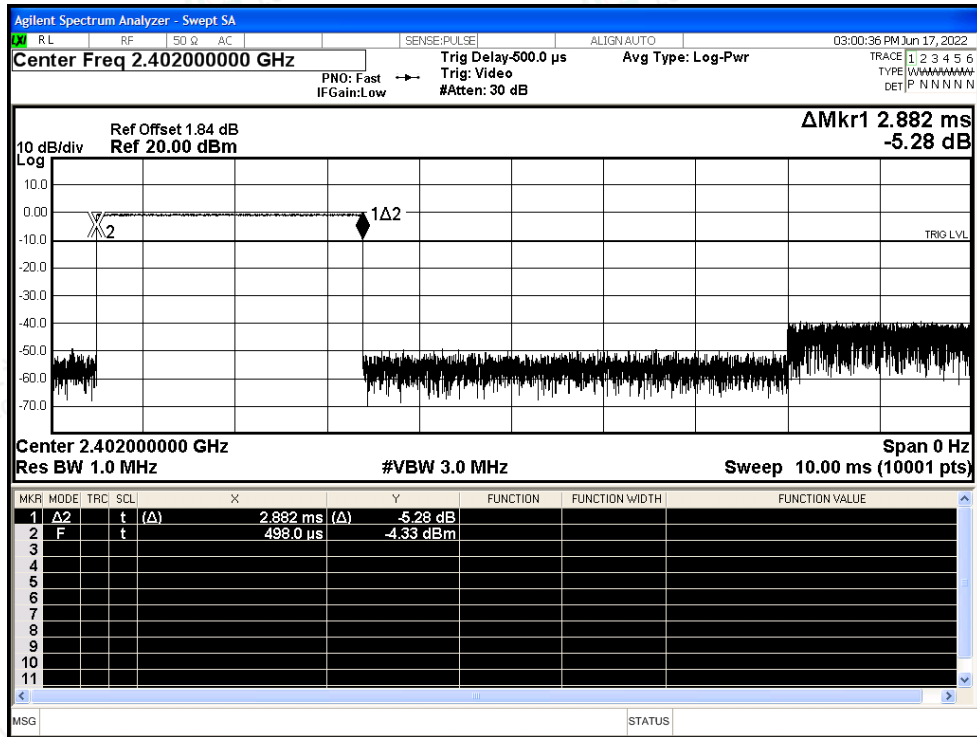


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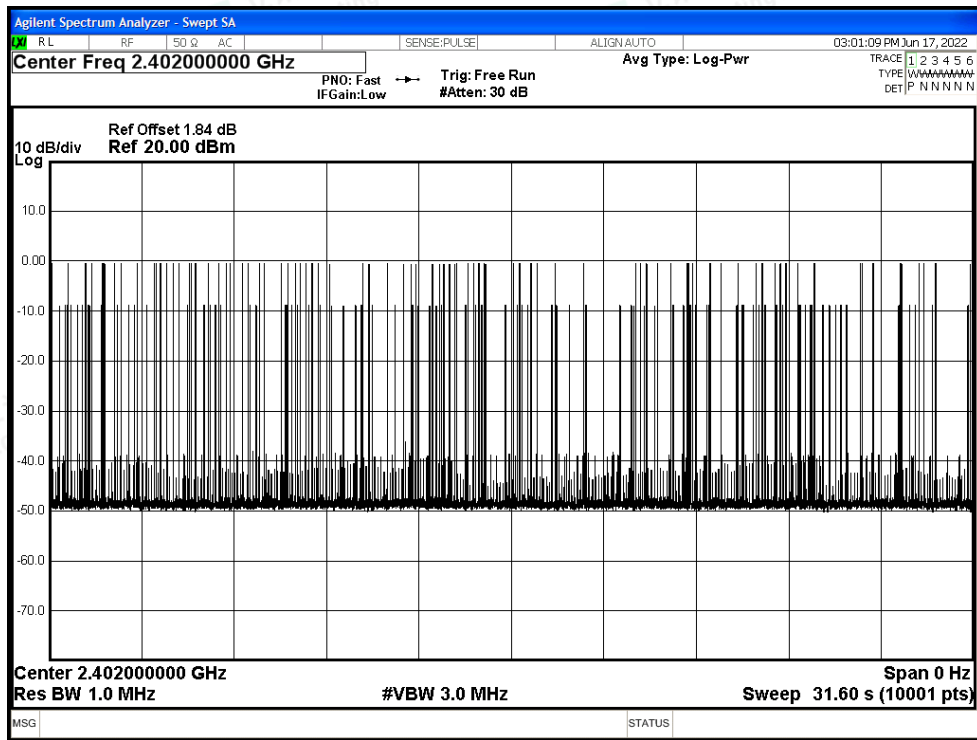


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

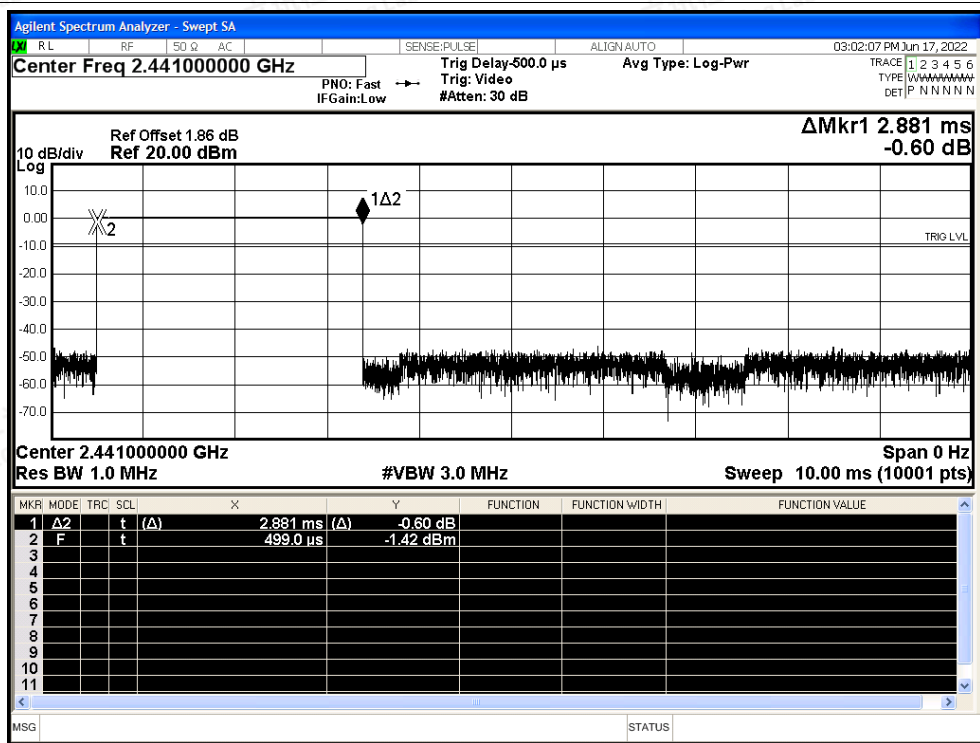


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

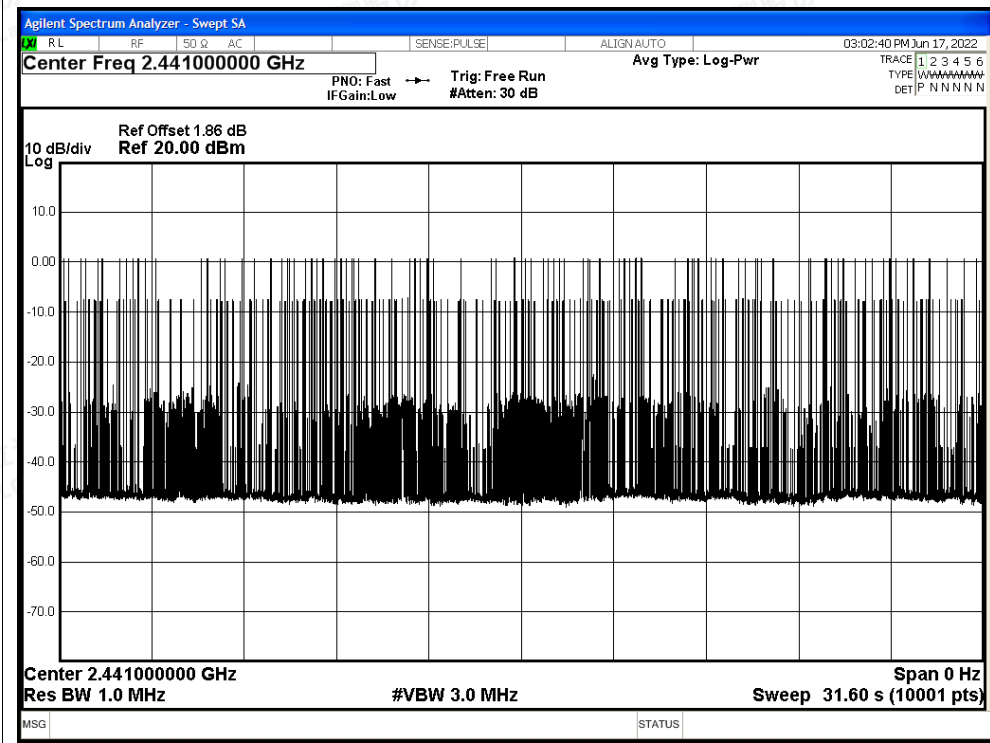




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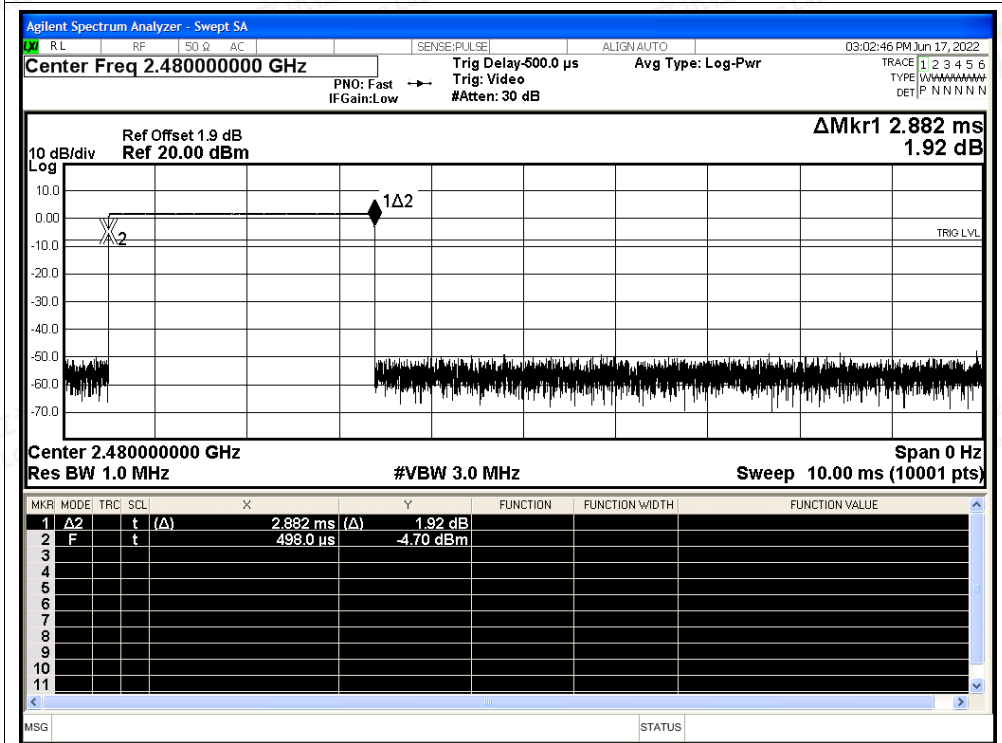


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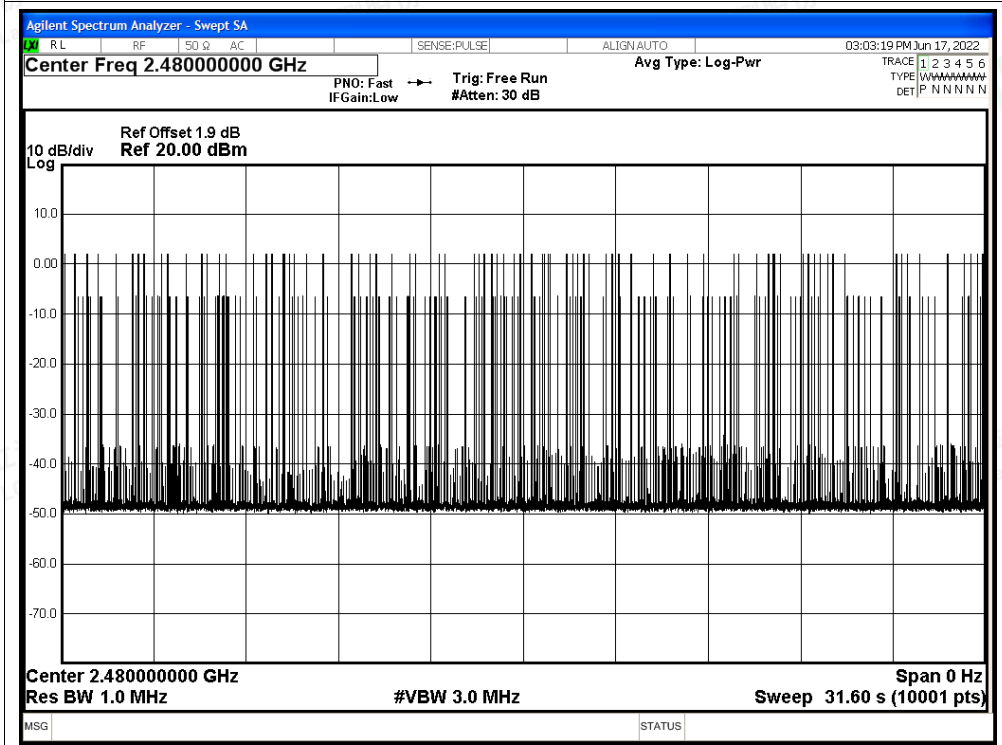




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

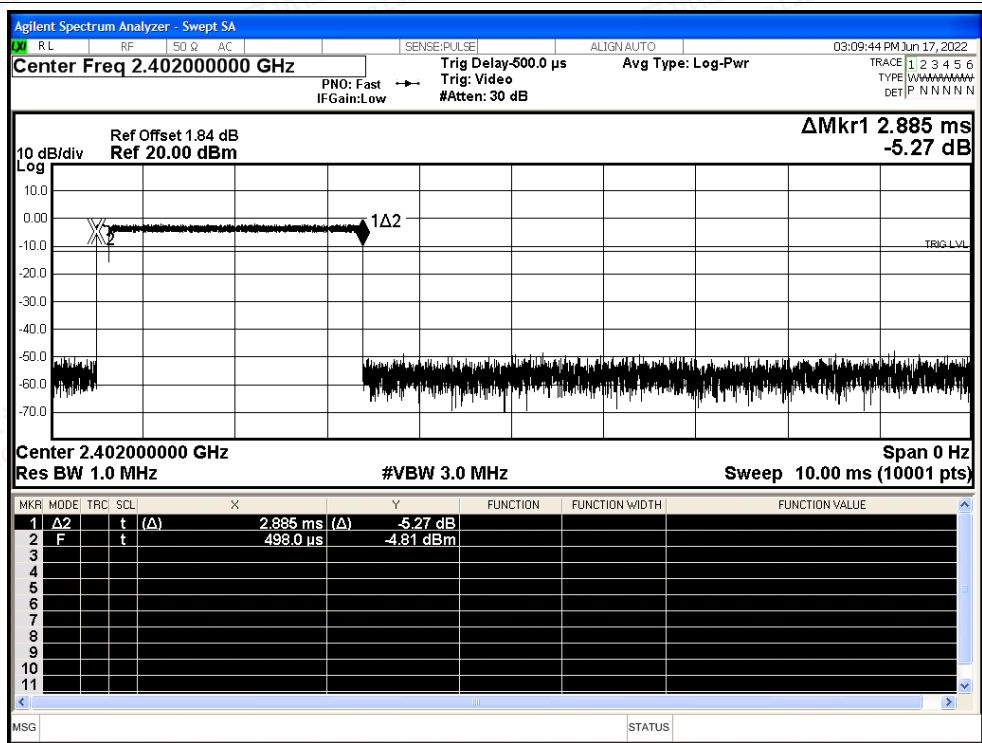


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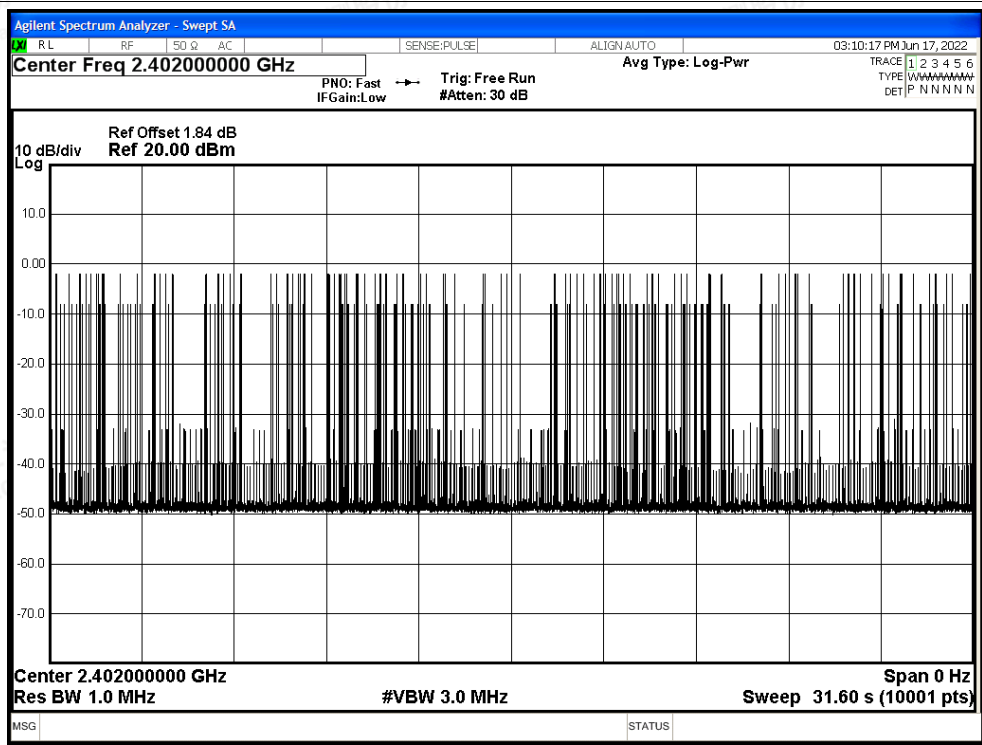




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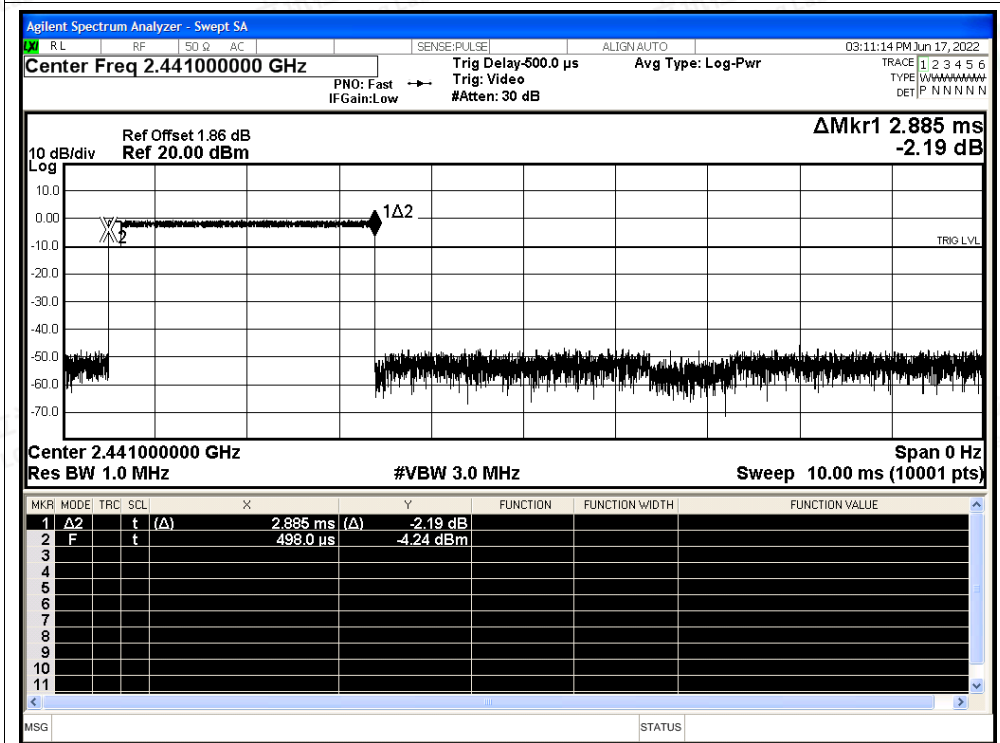


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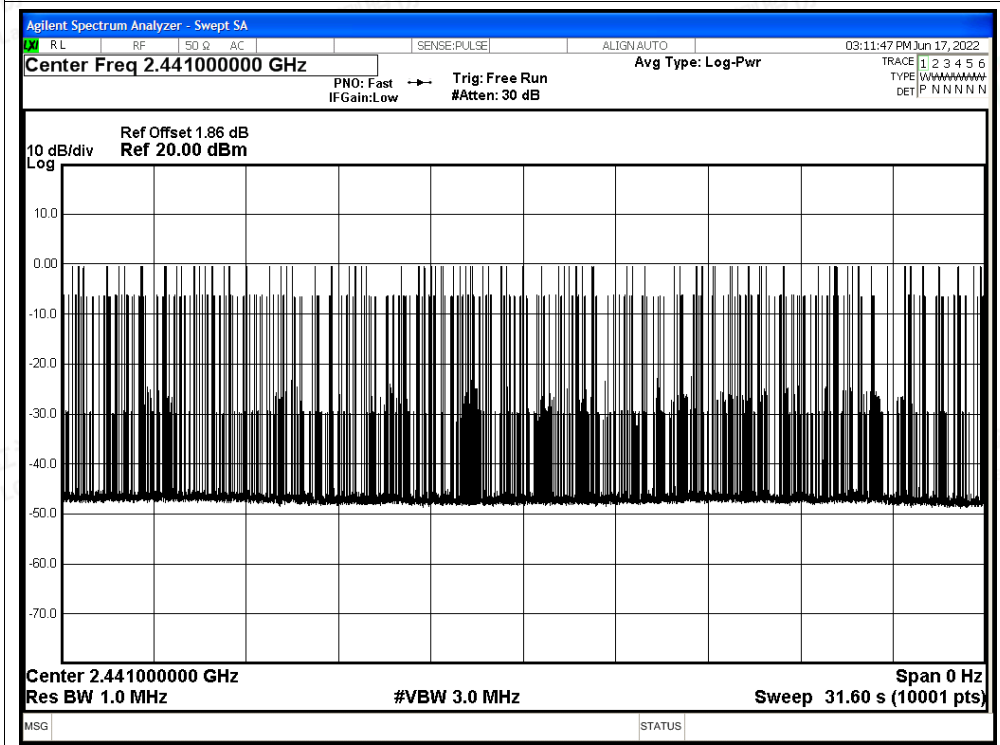




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

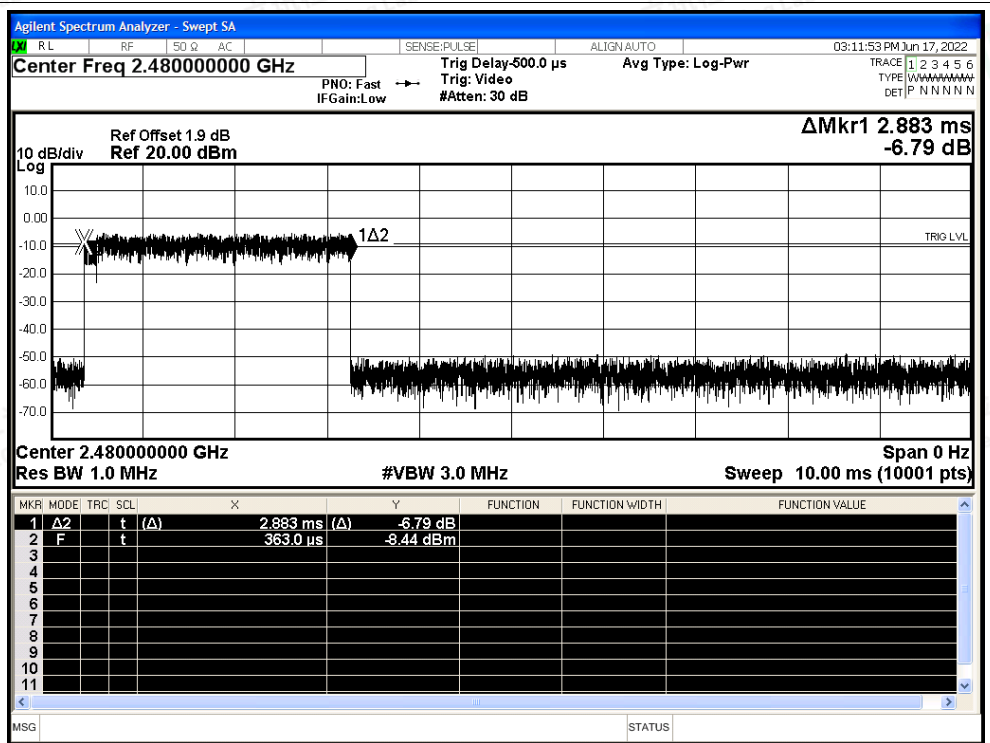


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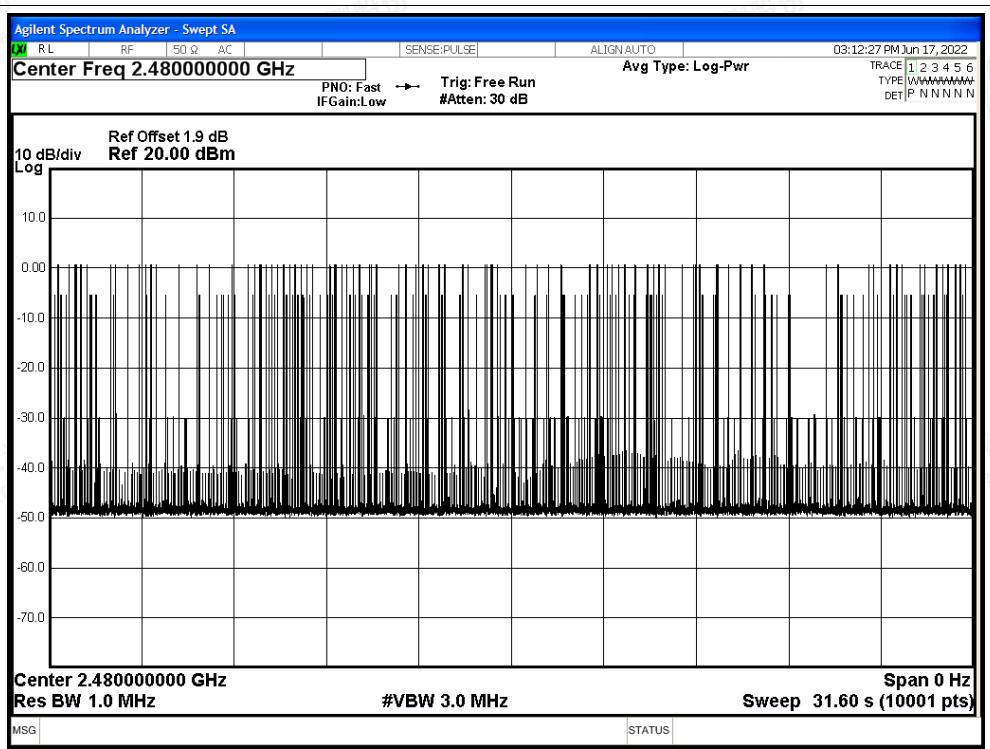




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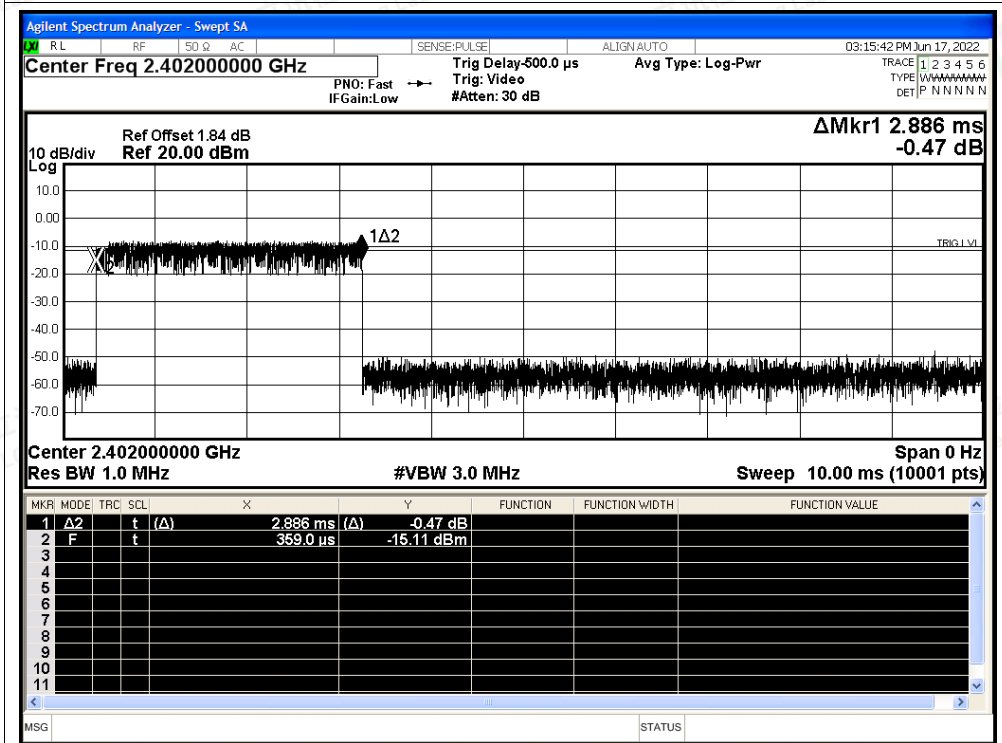


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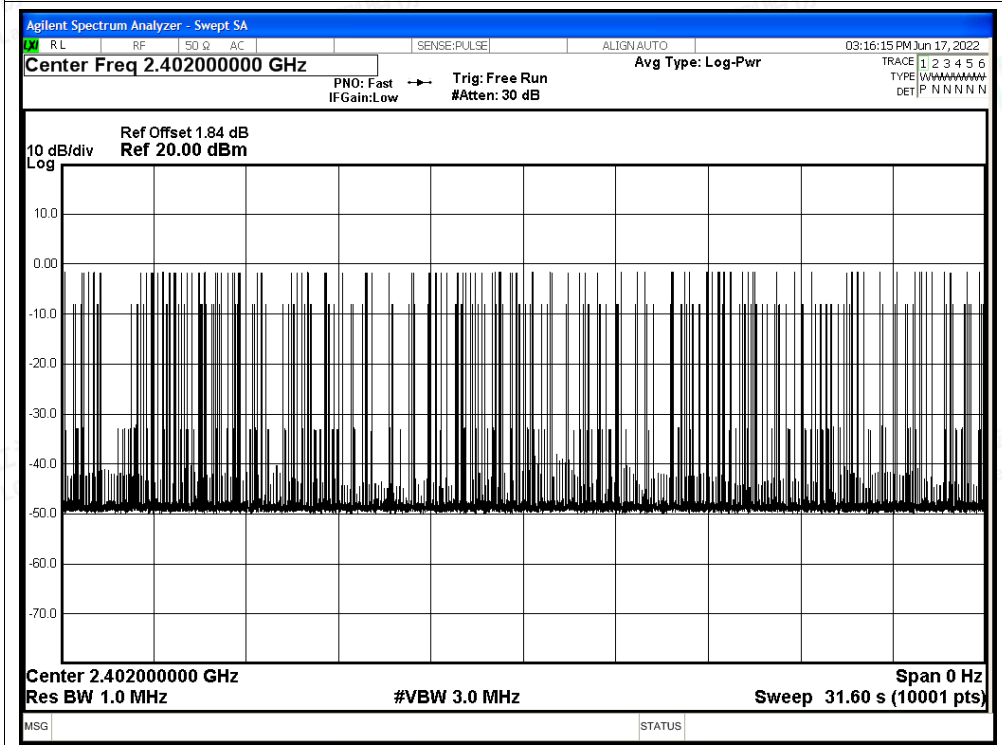




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

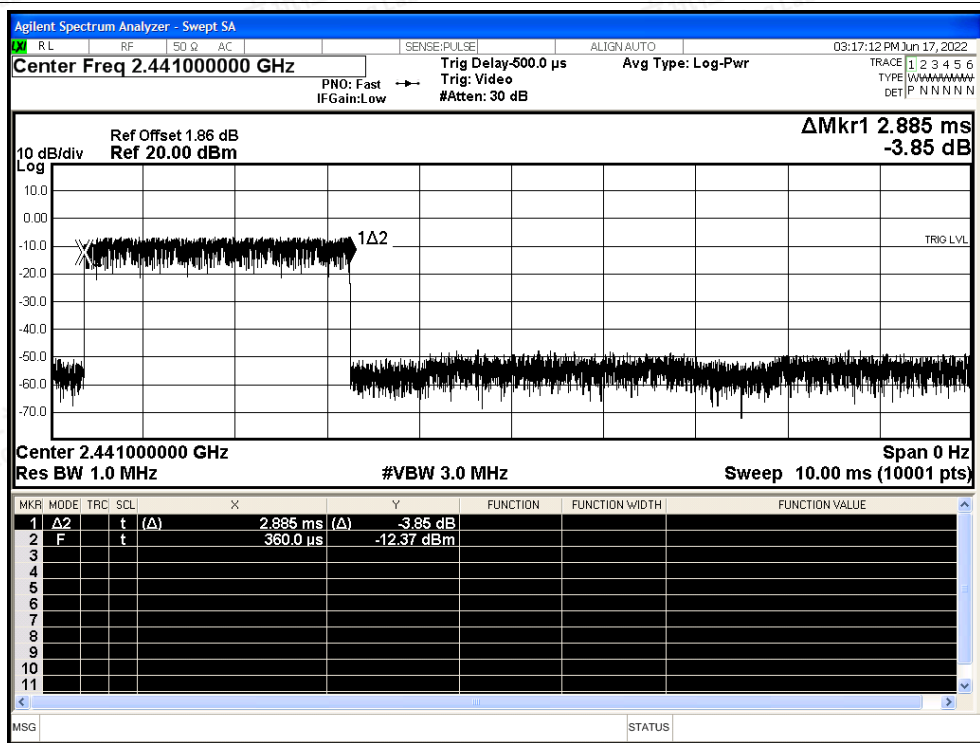


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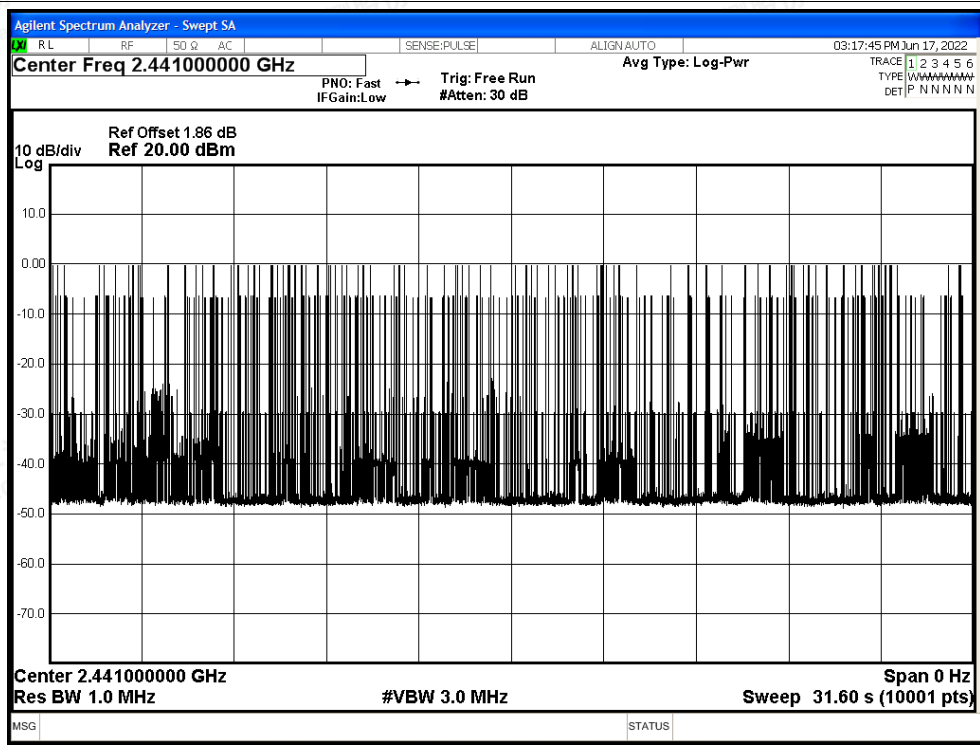




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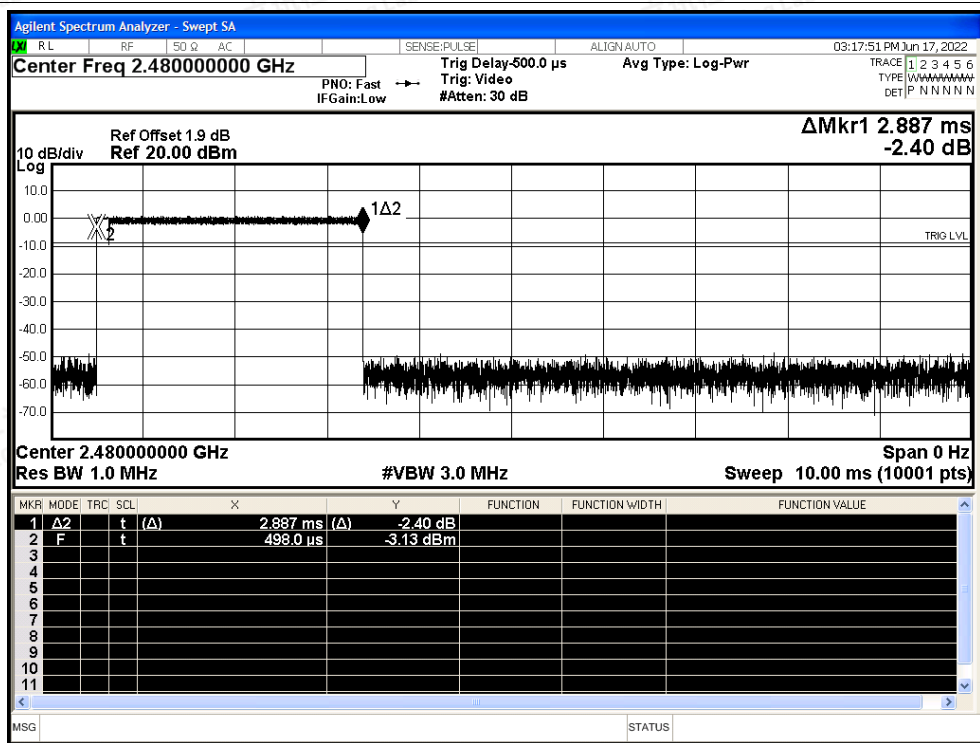


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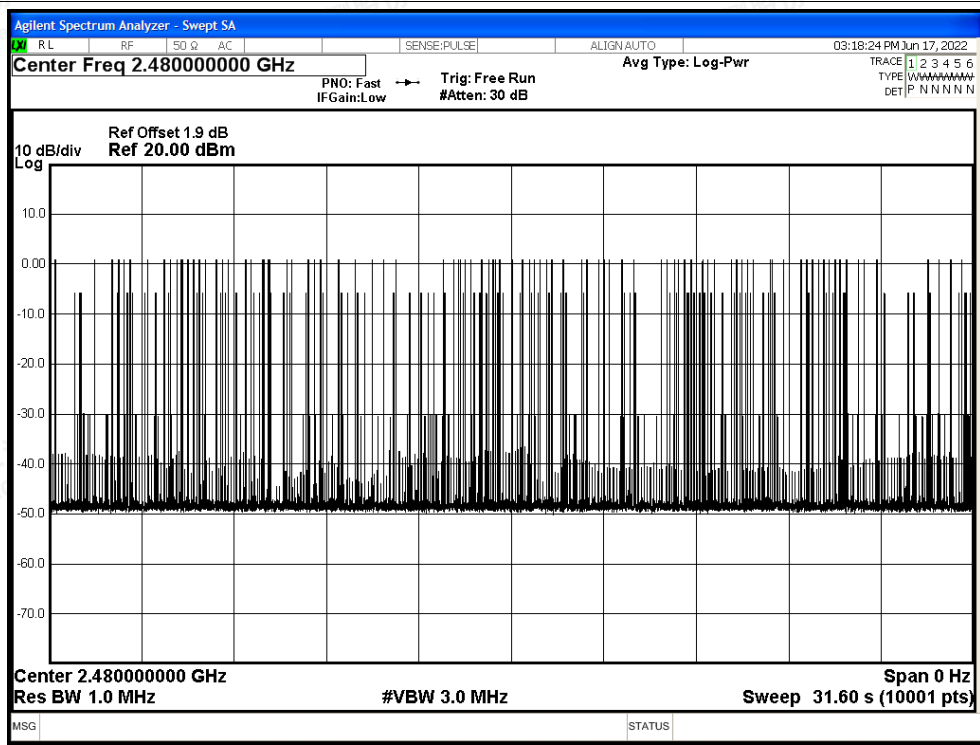




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz 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

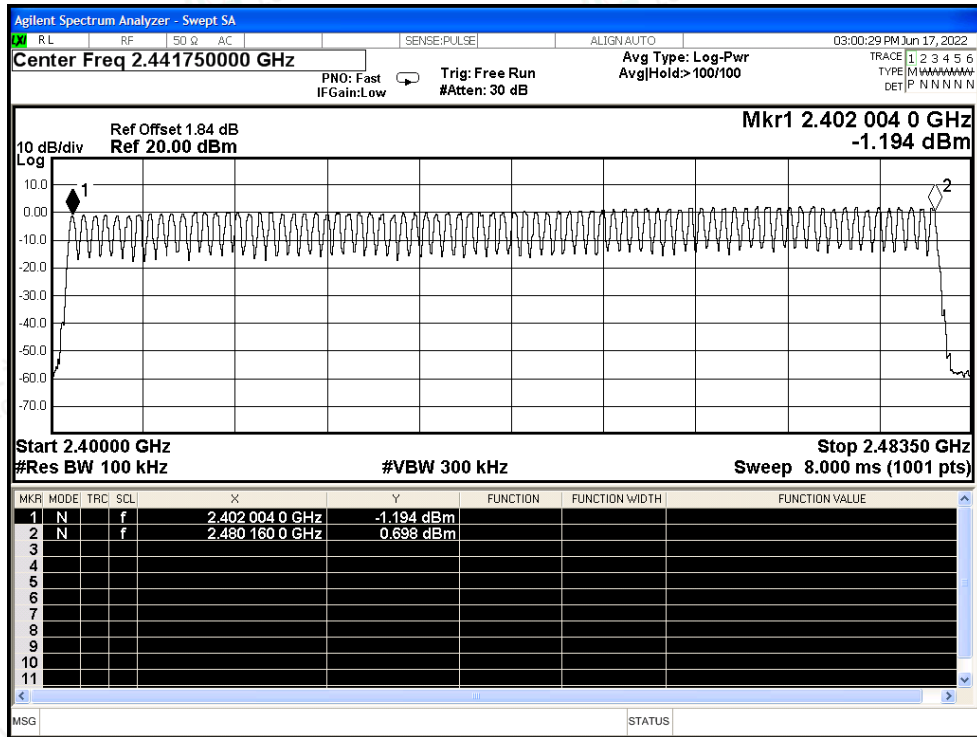


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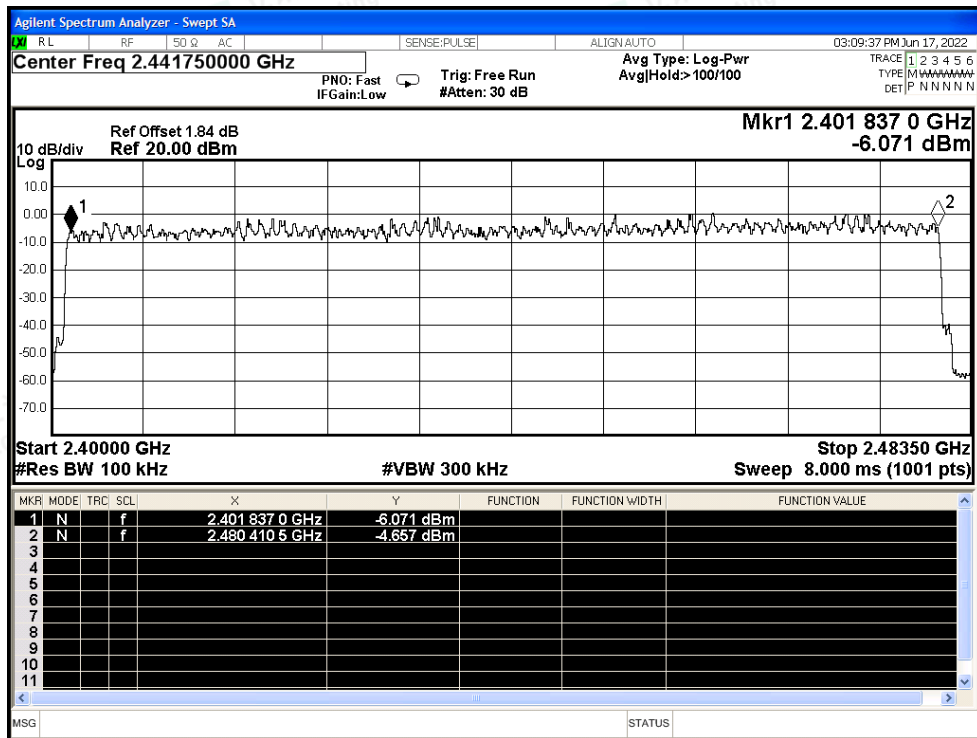


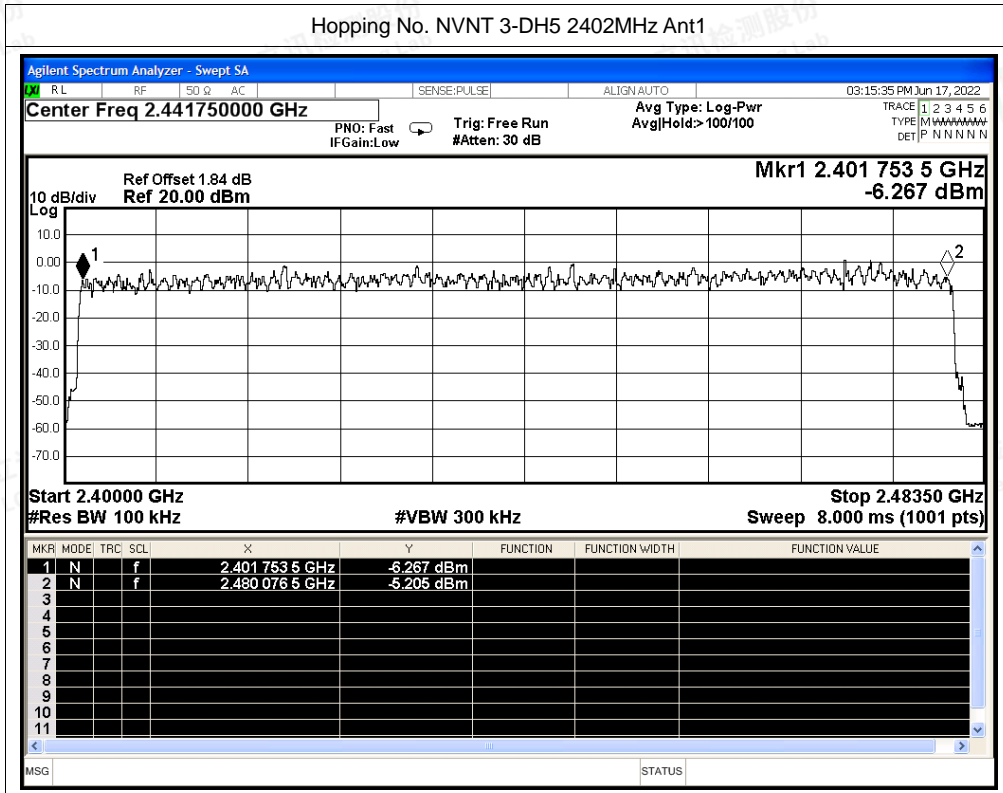
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.23	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.62	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.98	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.11	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.64	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.19	-20	Pass

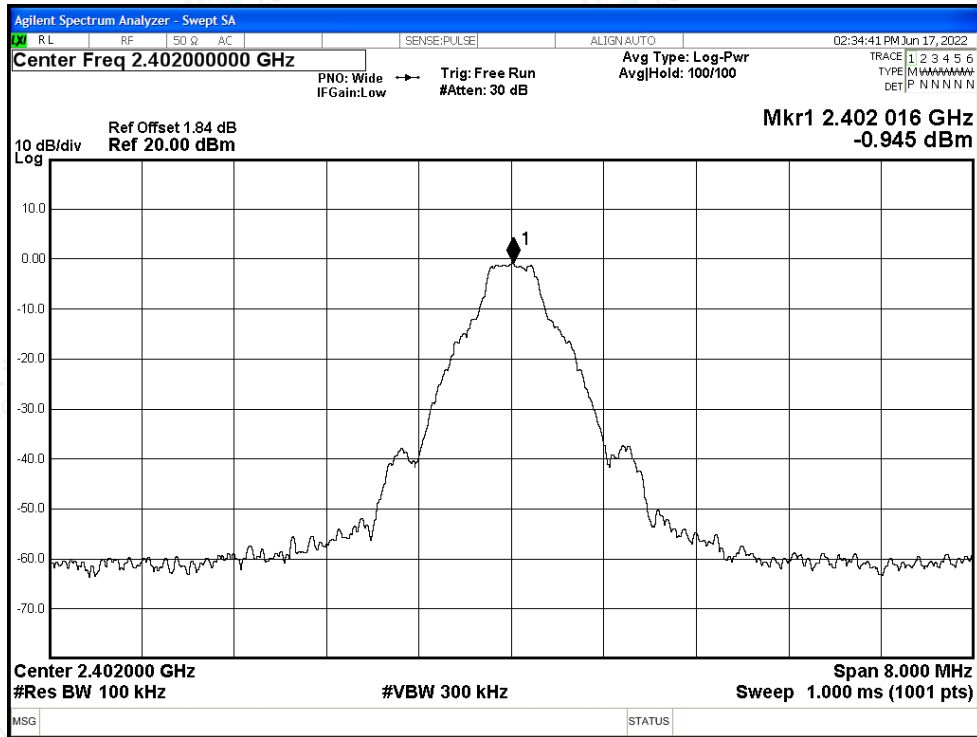


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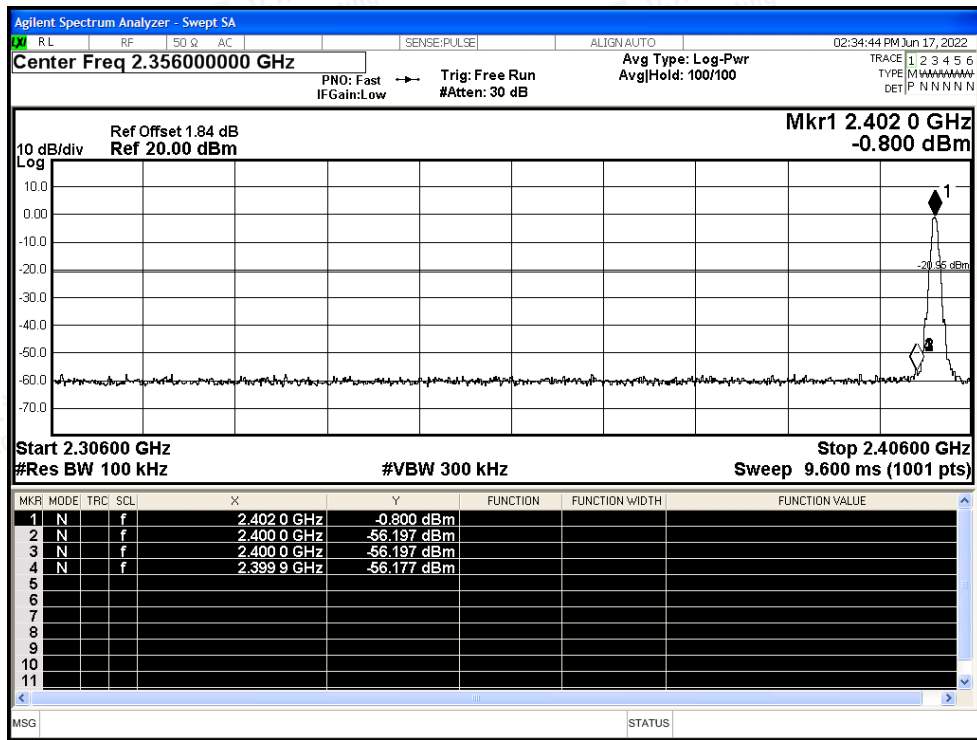


Test Graphs

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

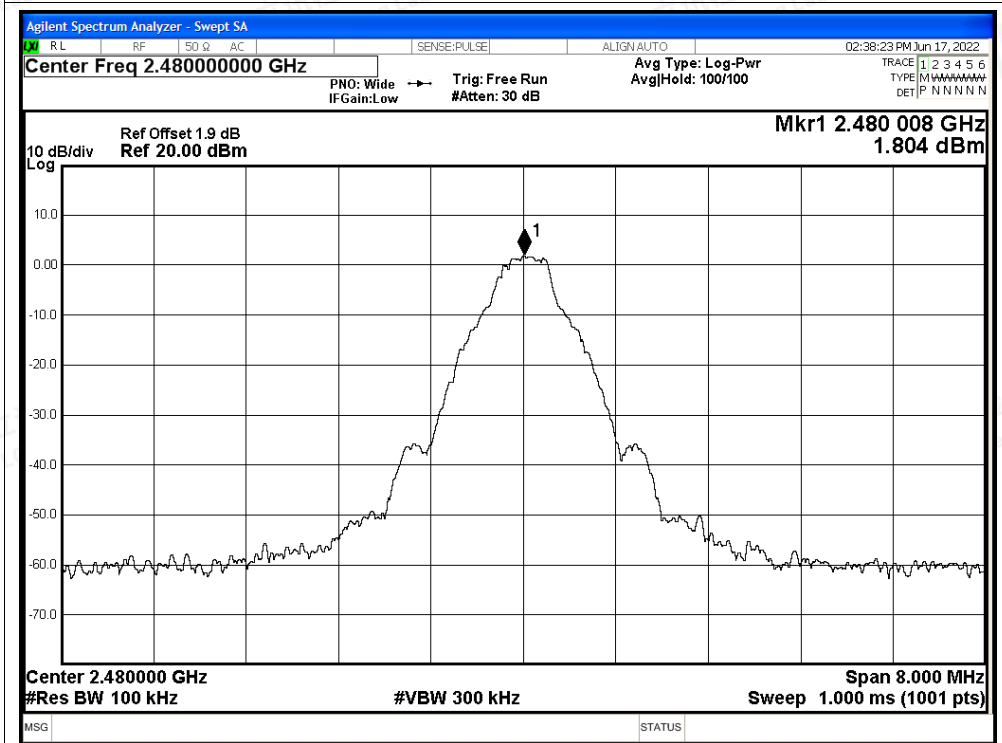


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

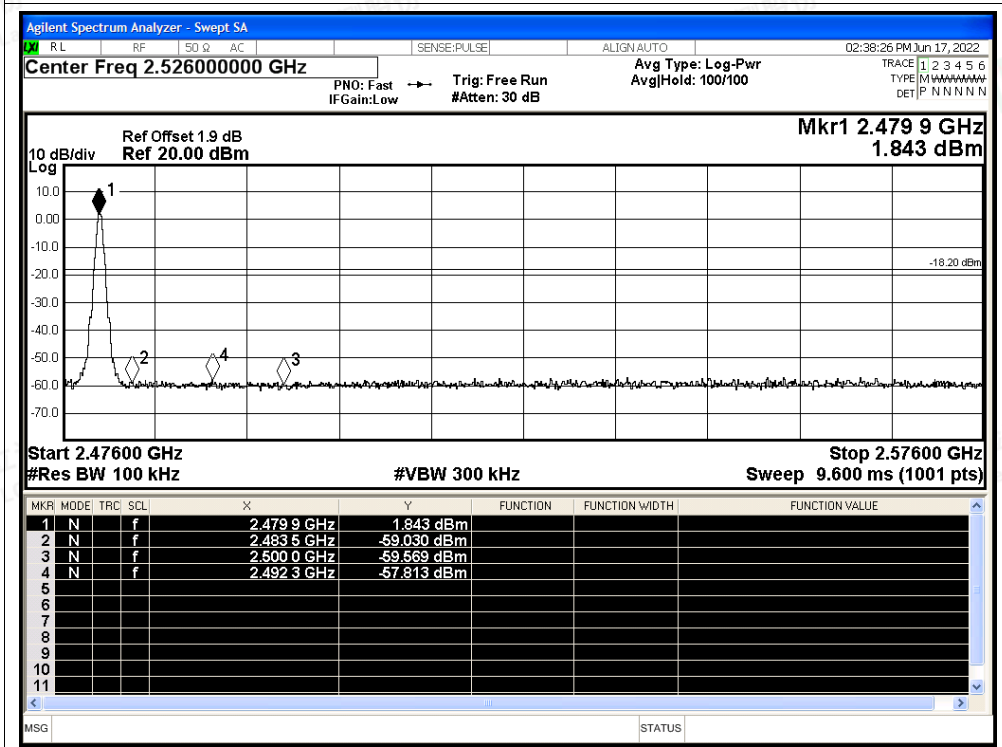




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

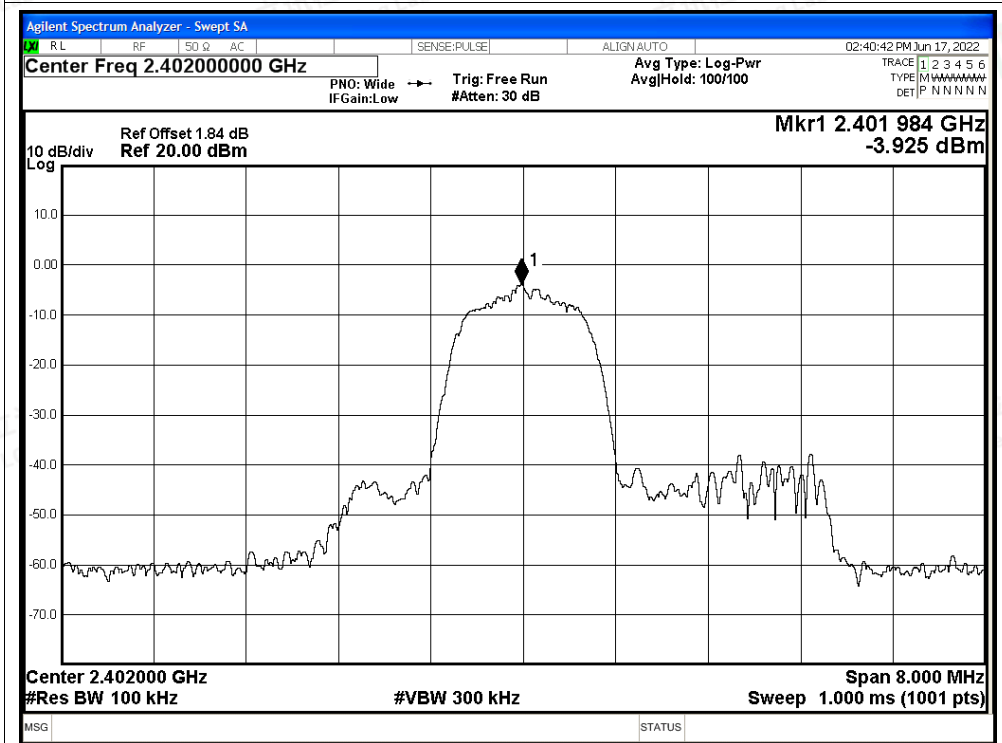


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

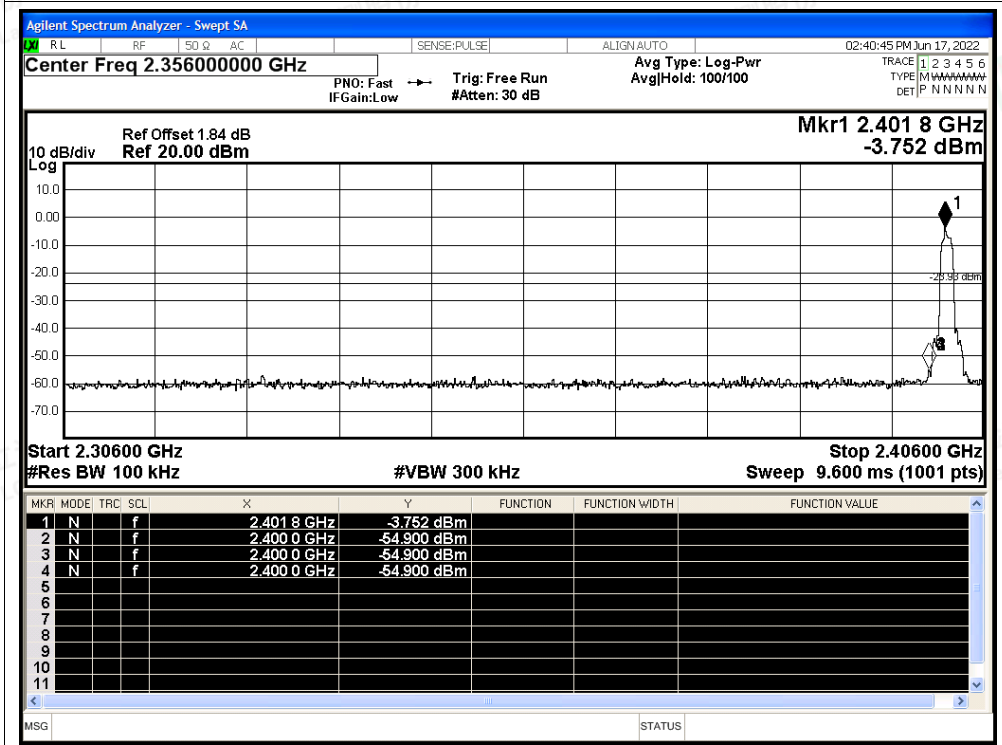




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

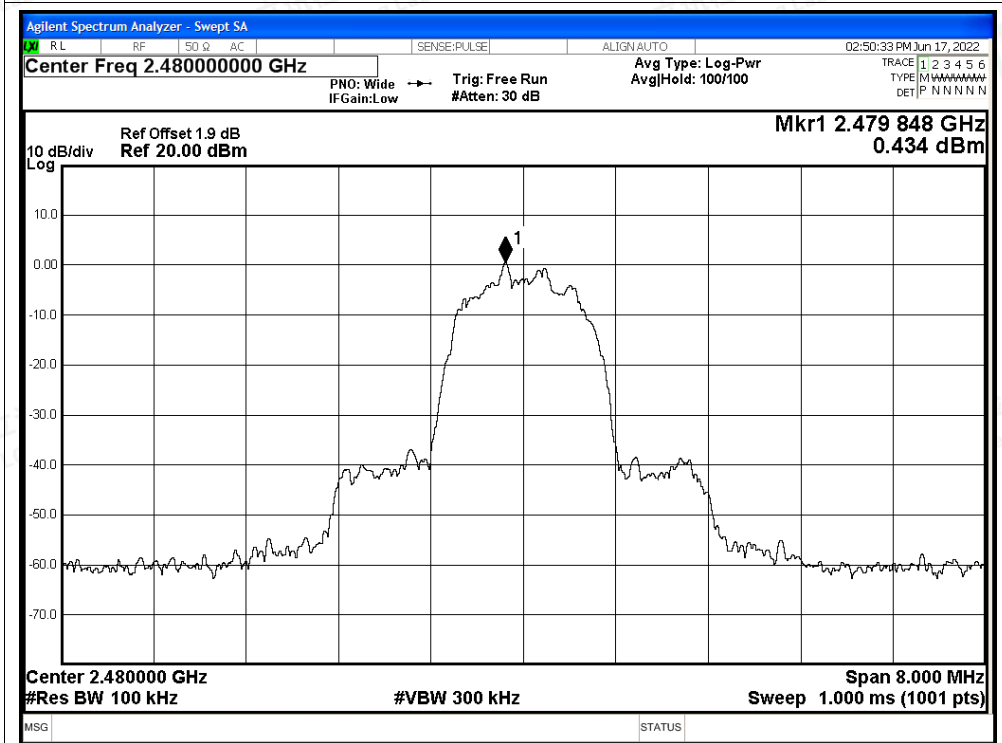


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

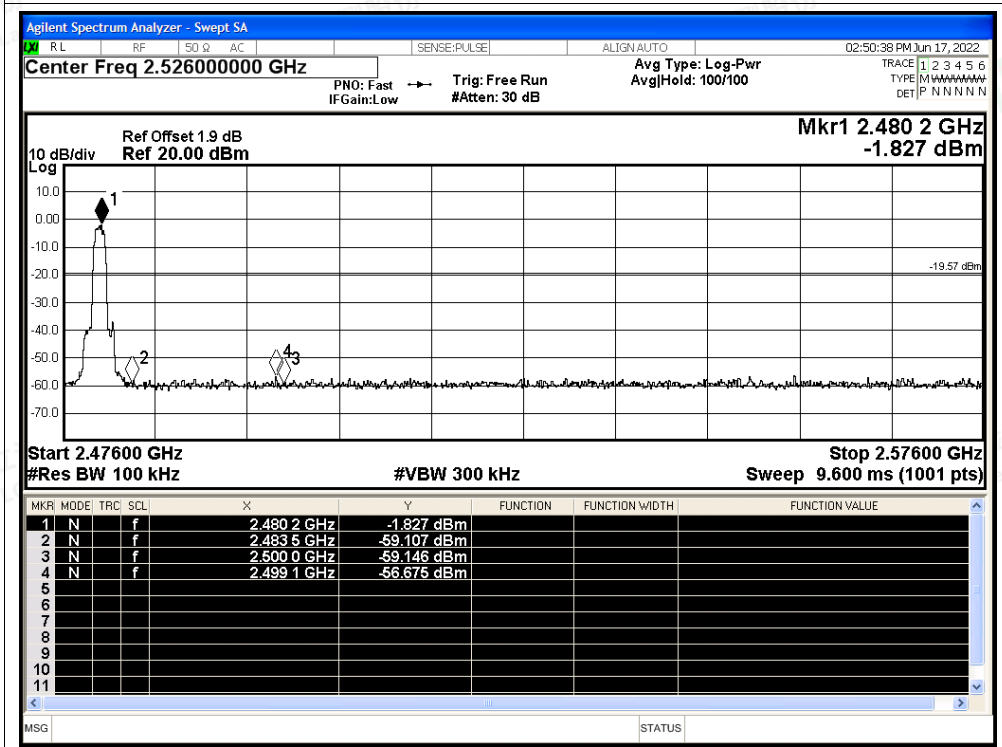




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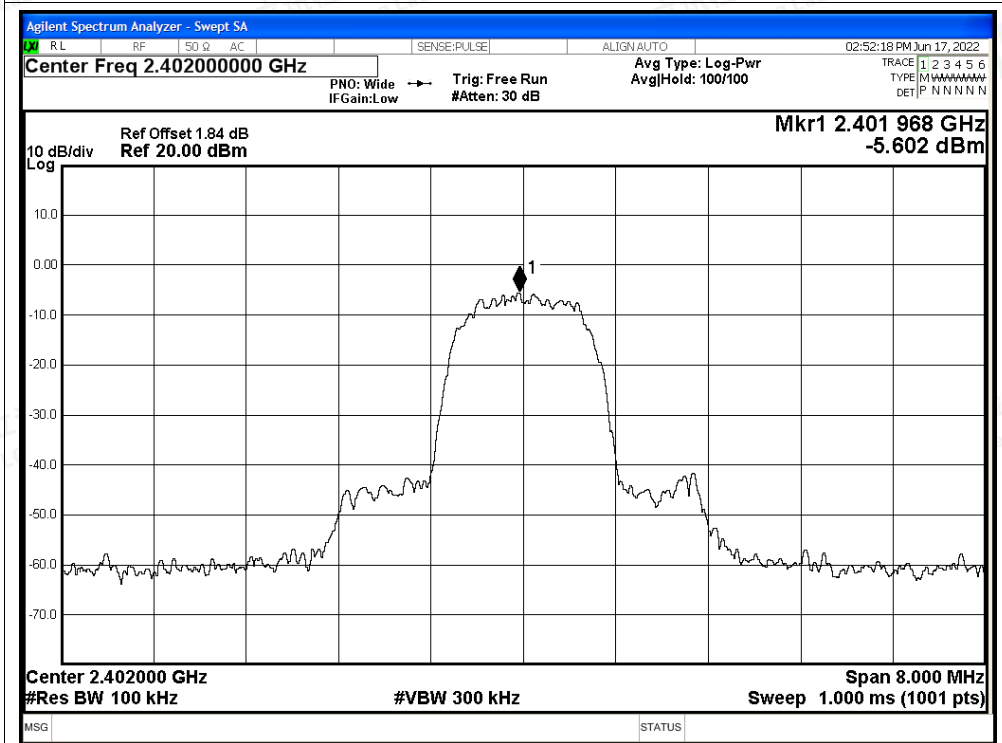


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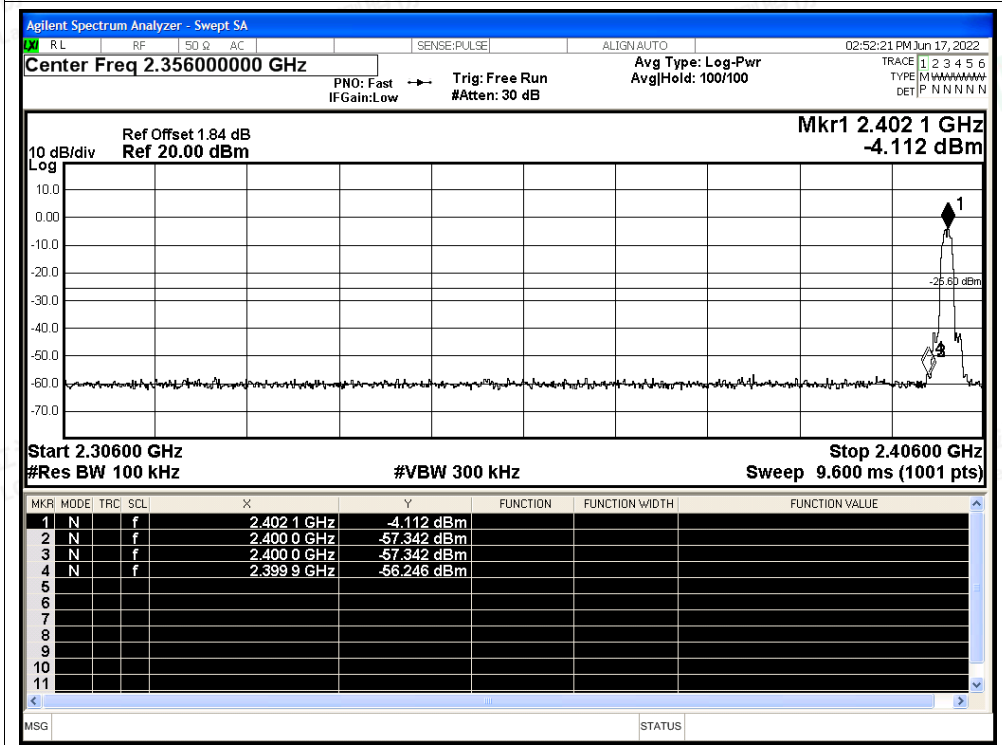




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

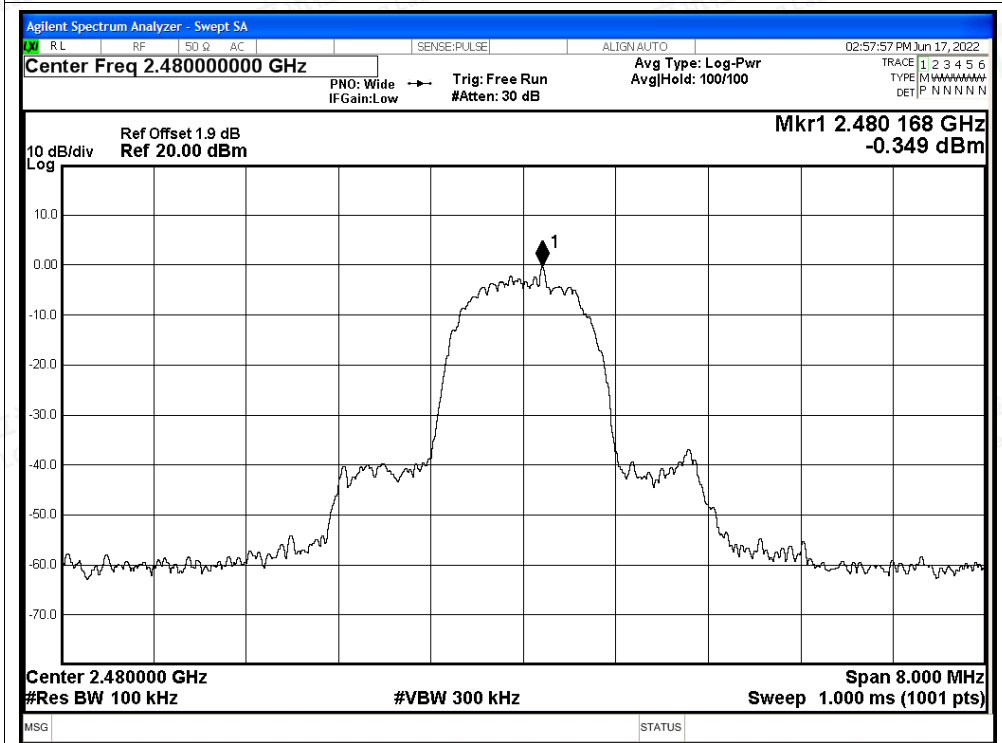


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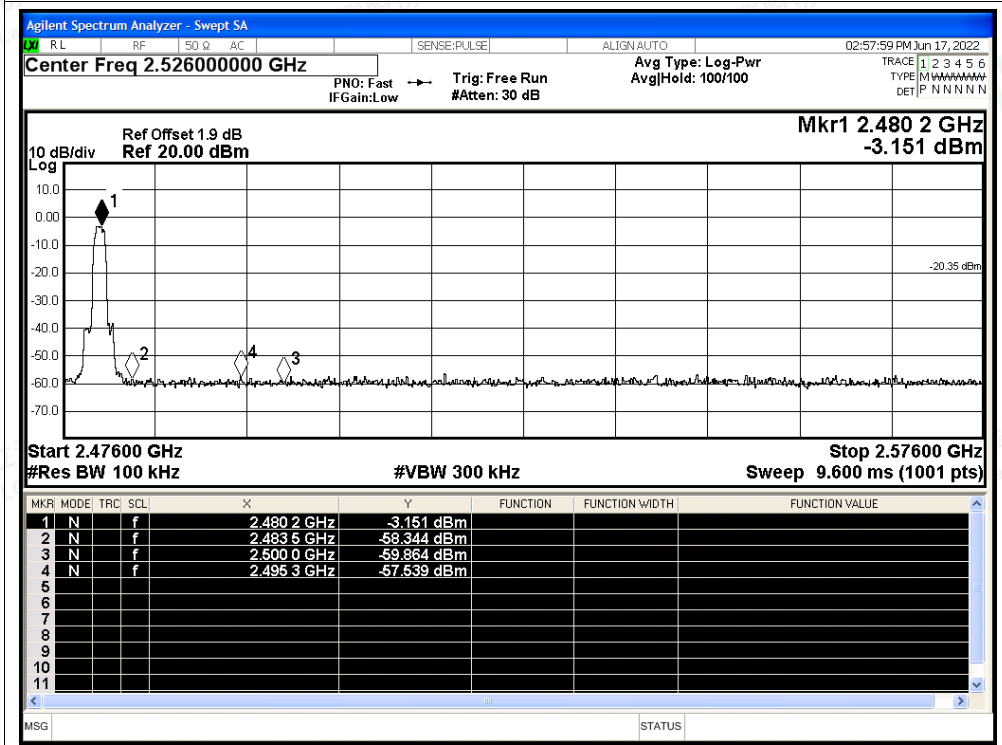




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-54.96	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.5	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.02	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.79	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.67	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.79	-20	Pass

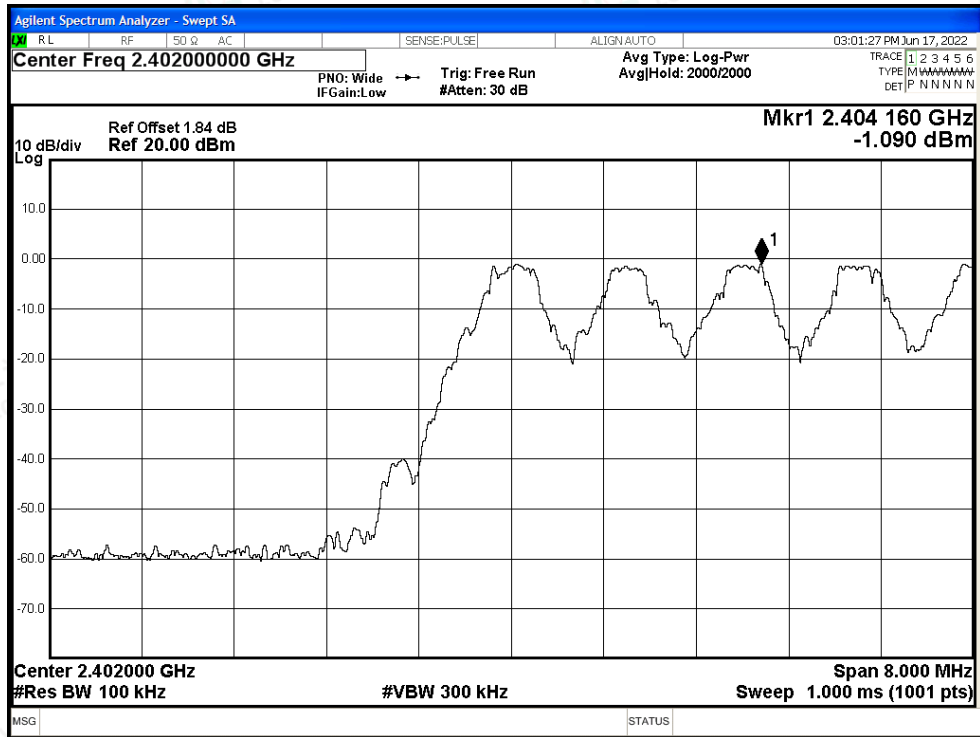


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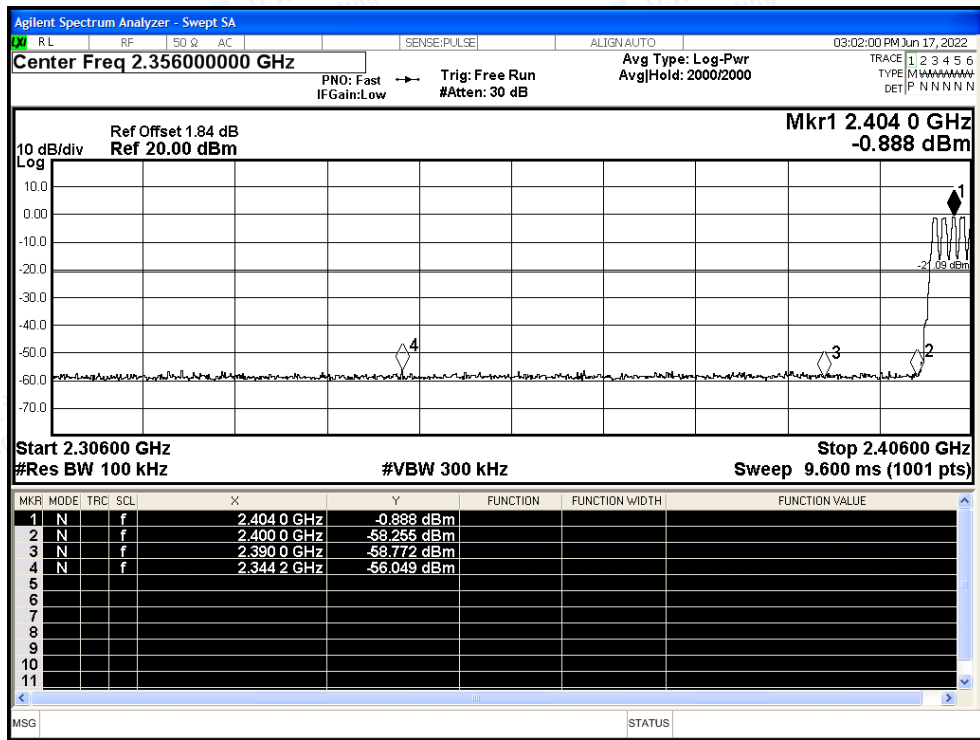


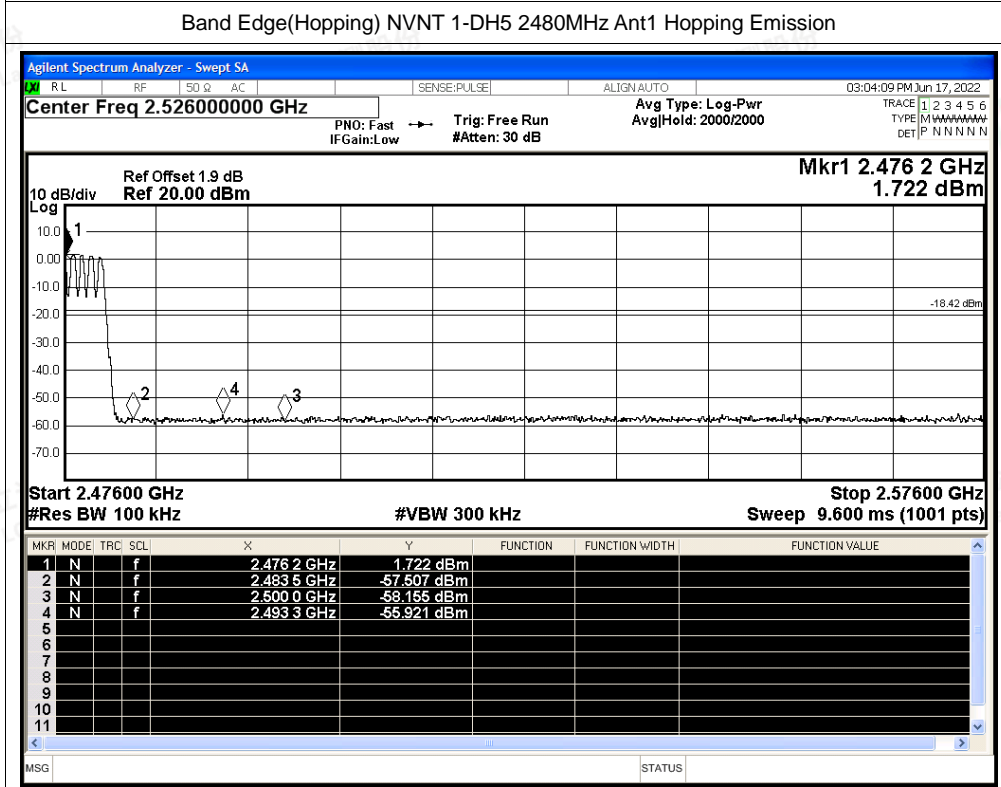
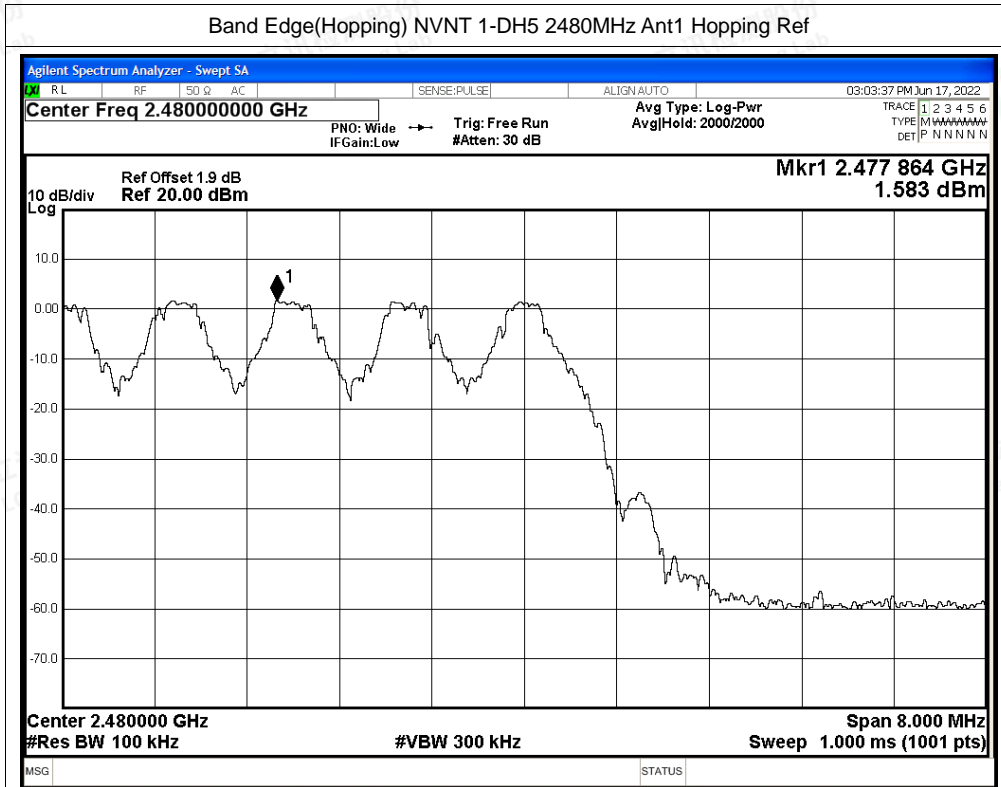
Test Graphs

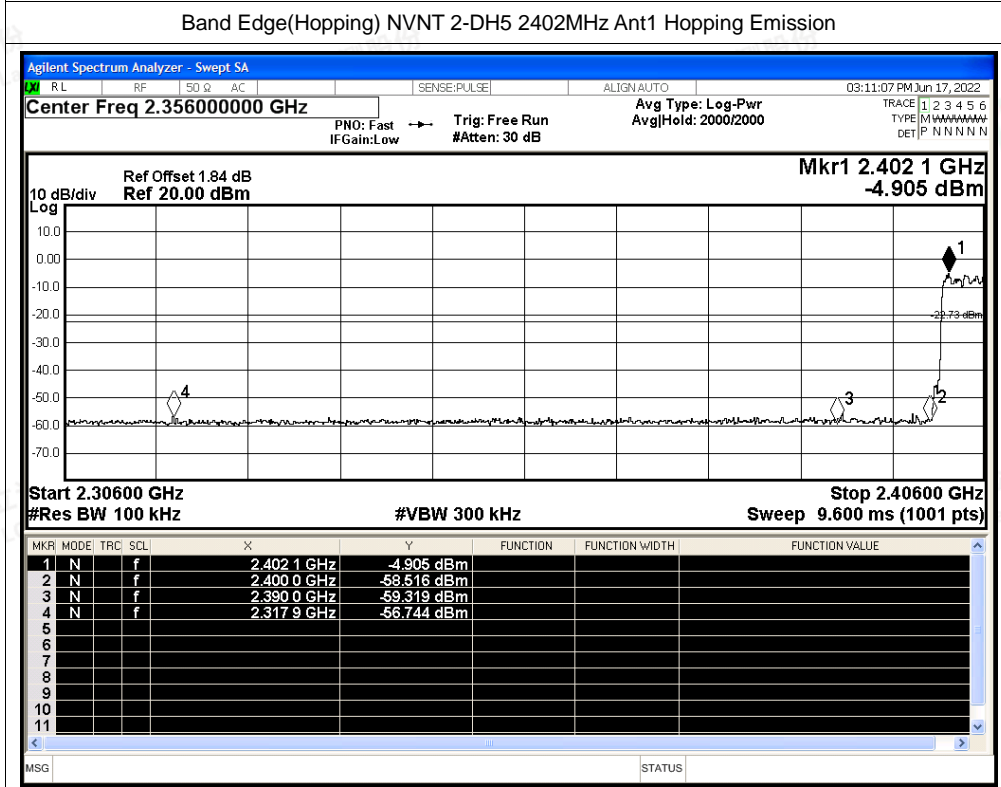
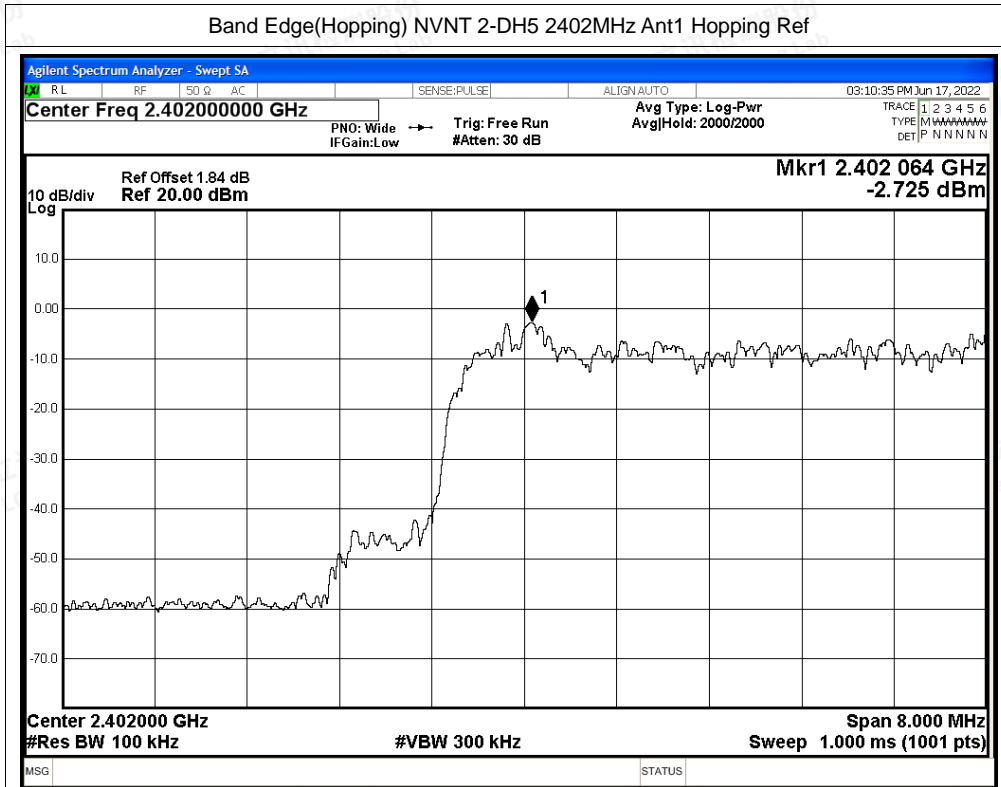
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

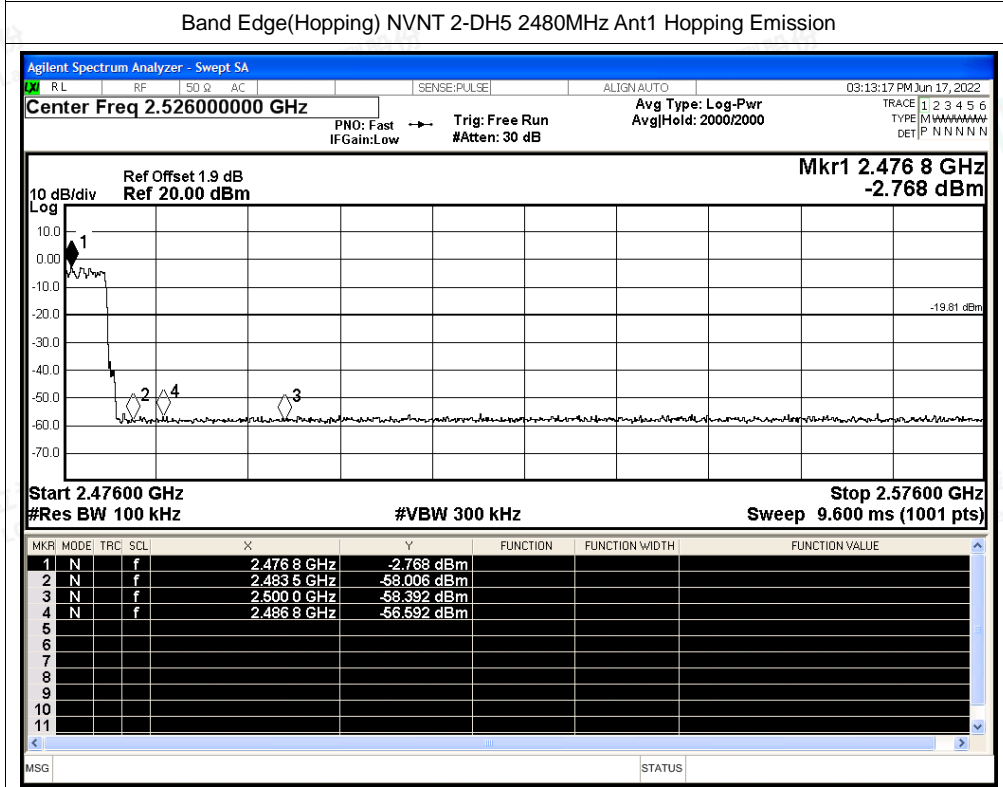
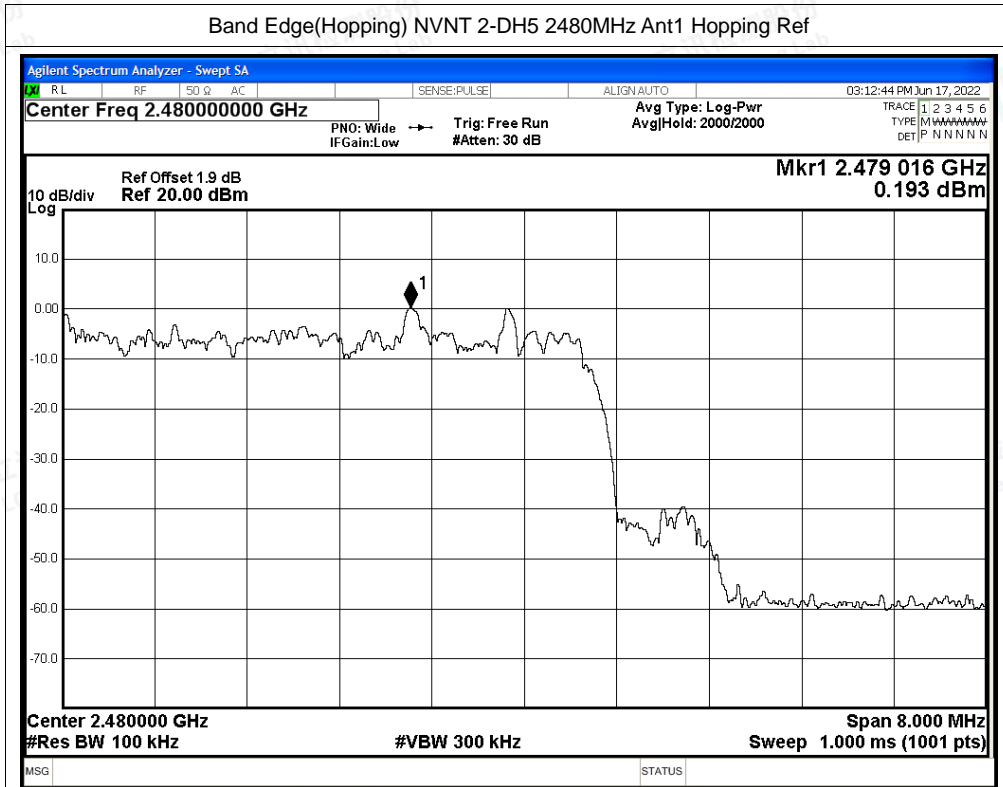


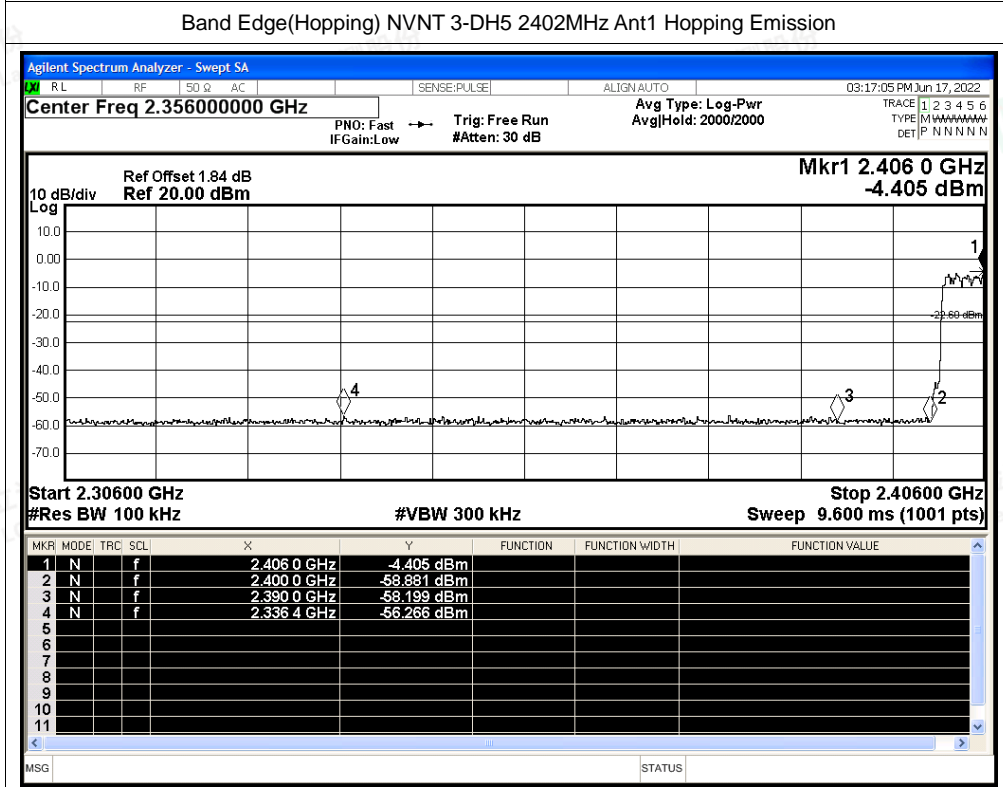
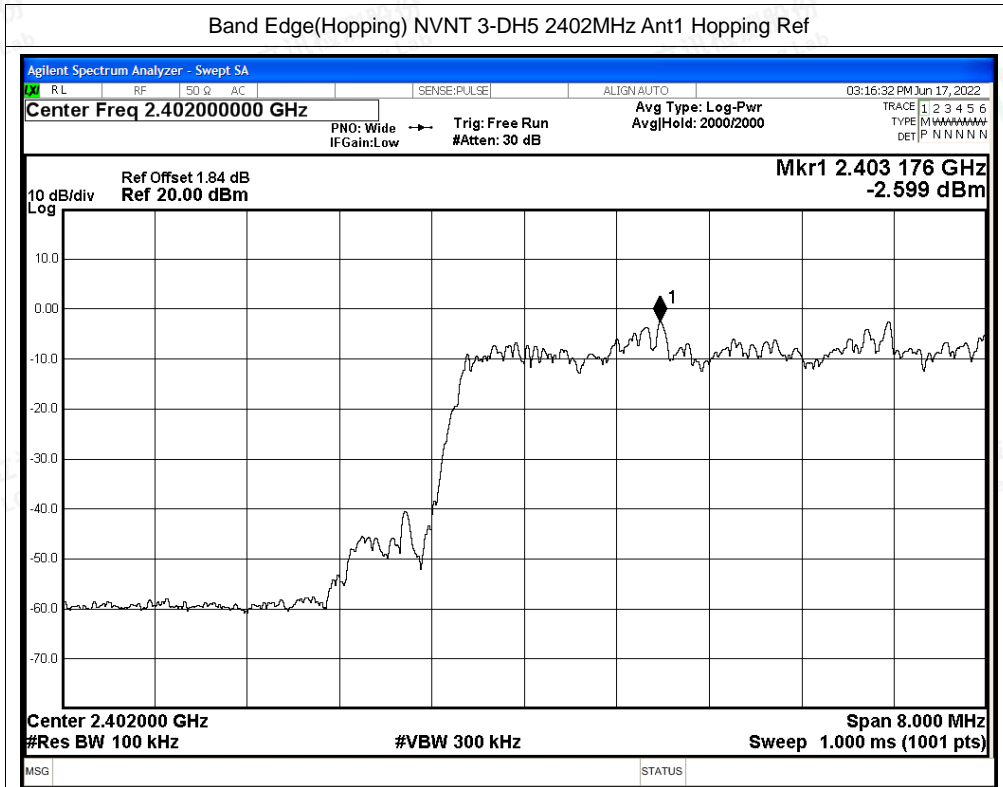
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

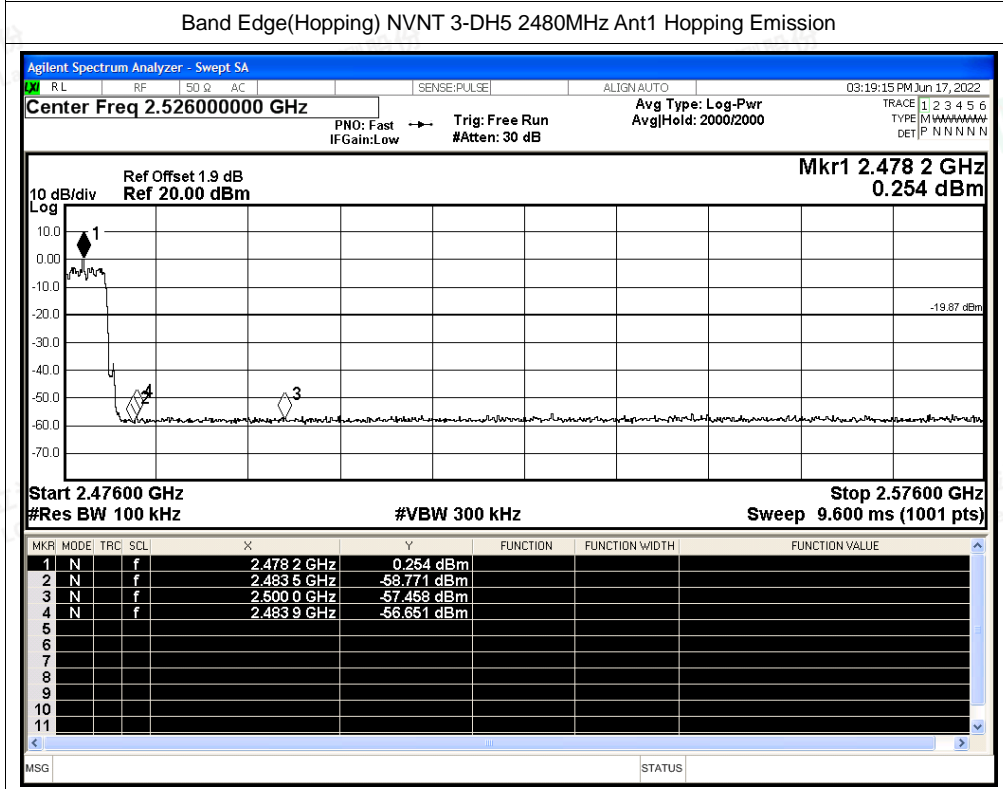
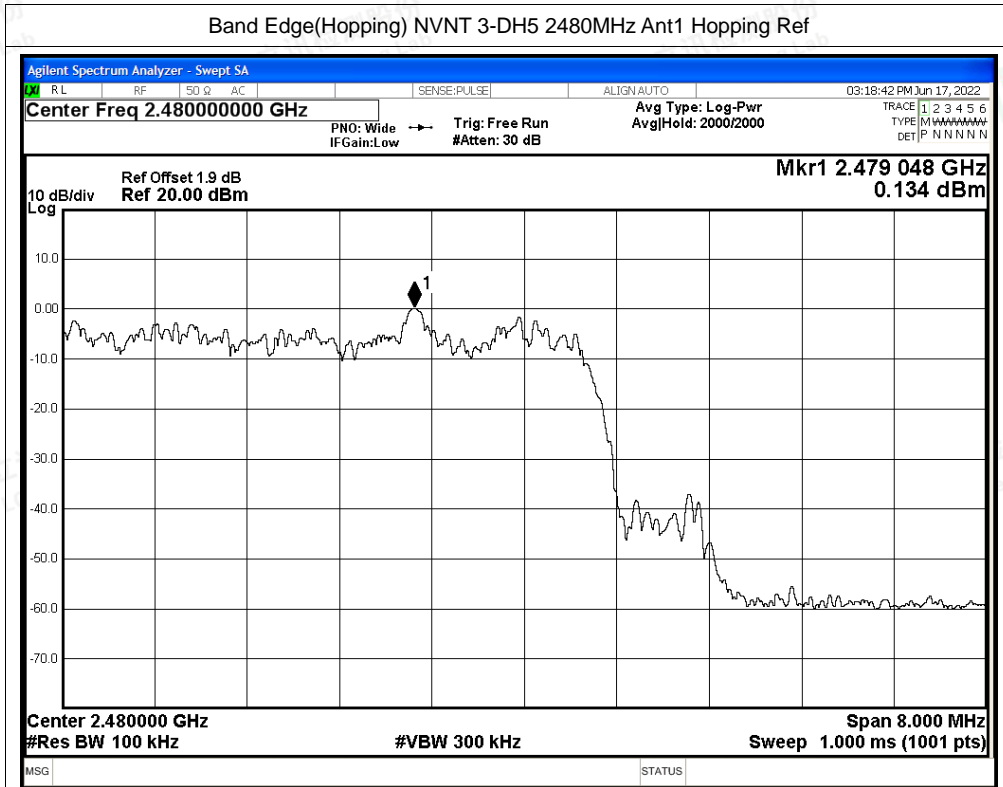














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-42.29	-20	Pass
NVNT	1-DH5	2441	Ant1	-41.51	-20	Pass
NVNT	1-DH5	2480	Ant1	-40.29	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.17	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.69	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.46	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.93	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.36	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.76	-20	Pass

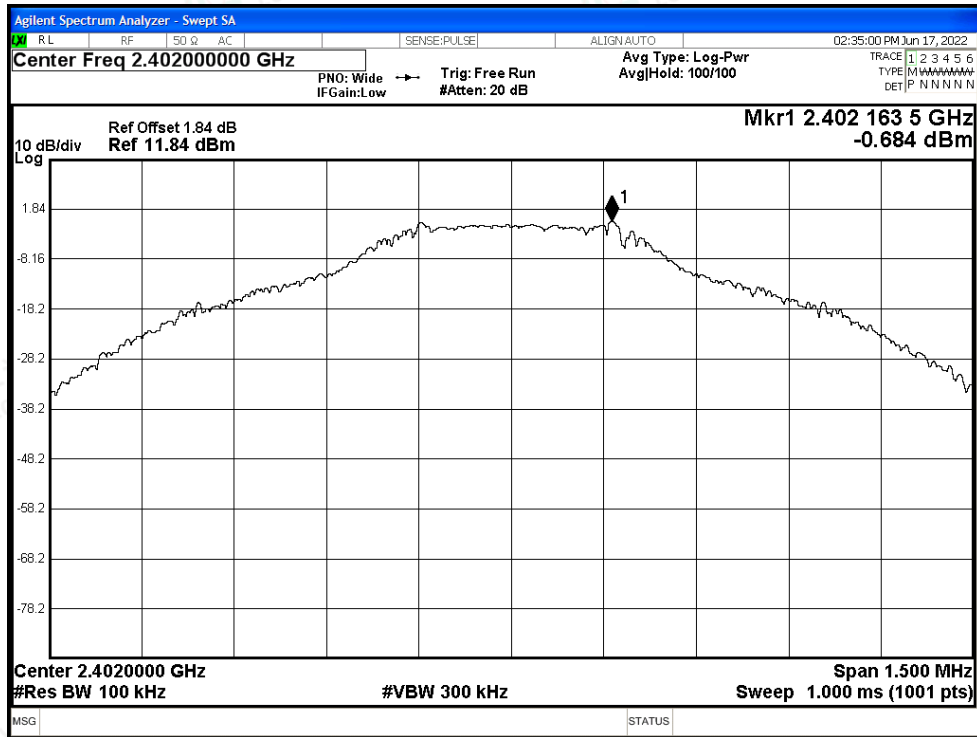


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

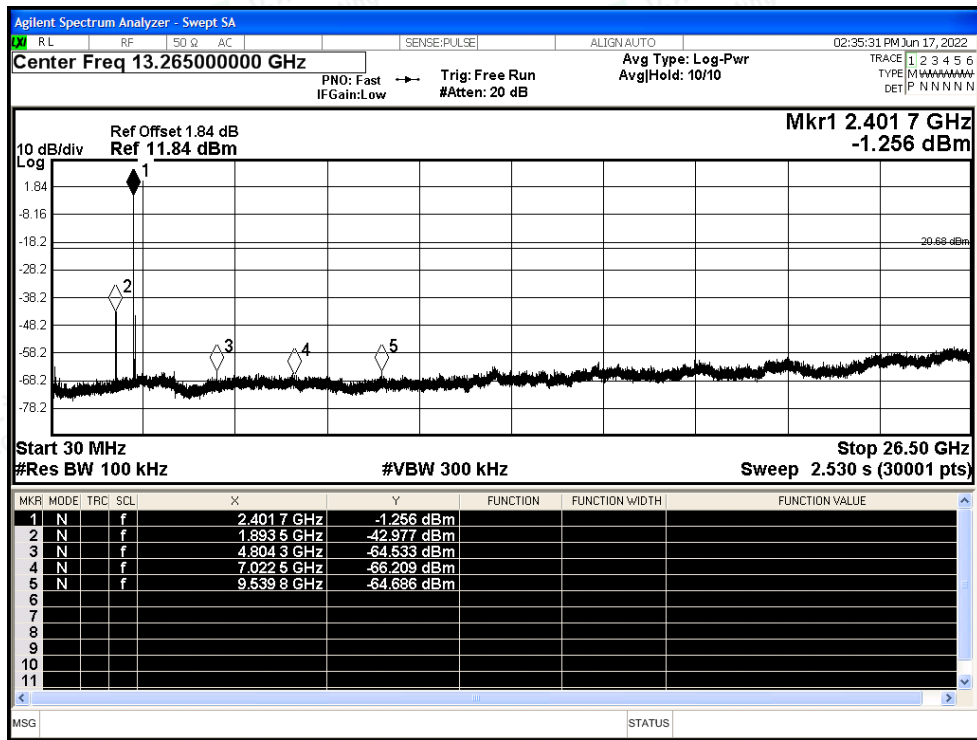


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

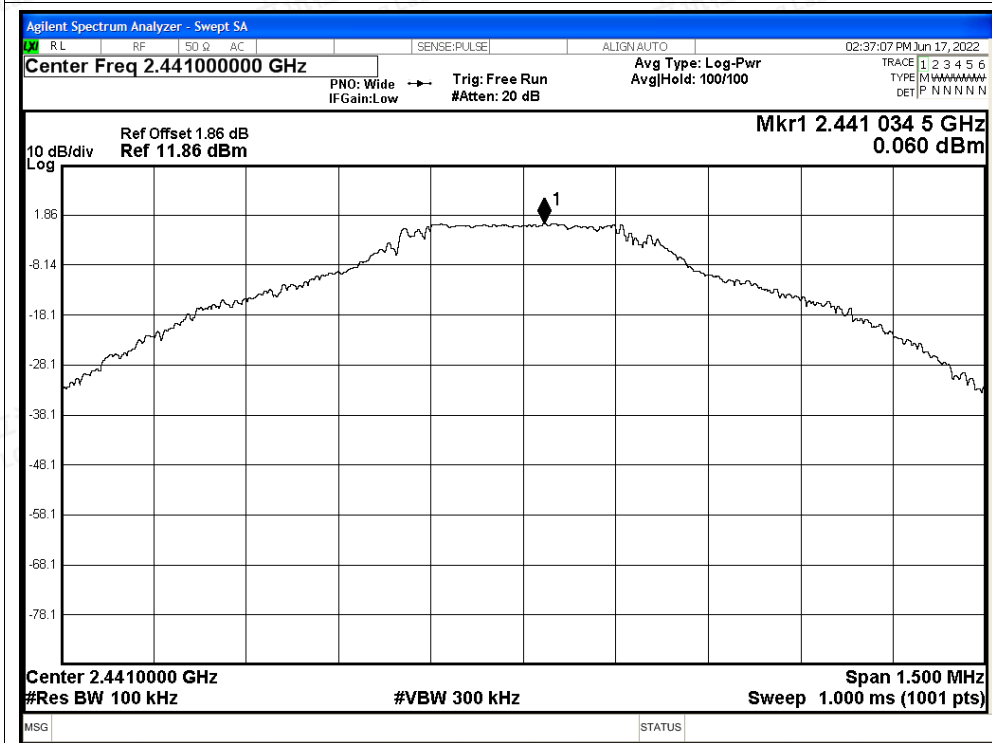


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

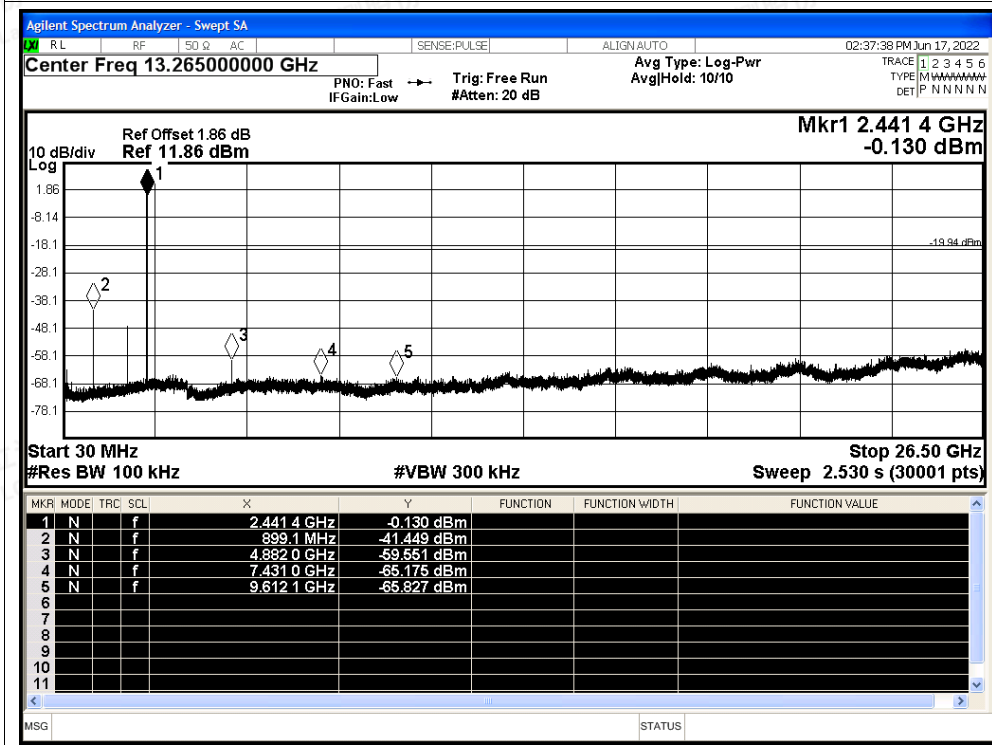




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

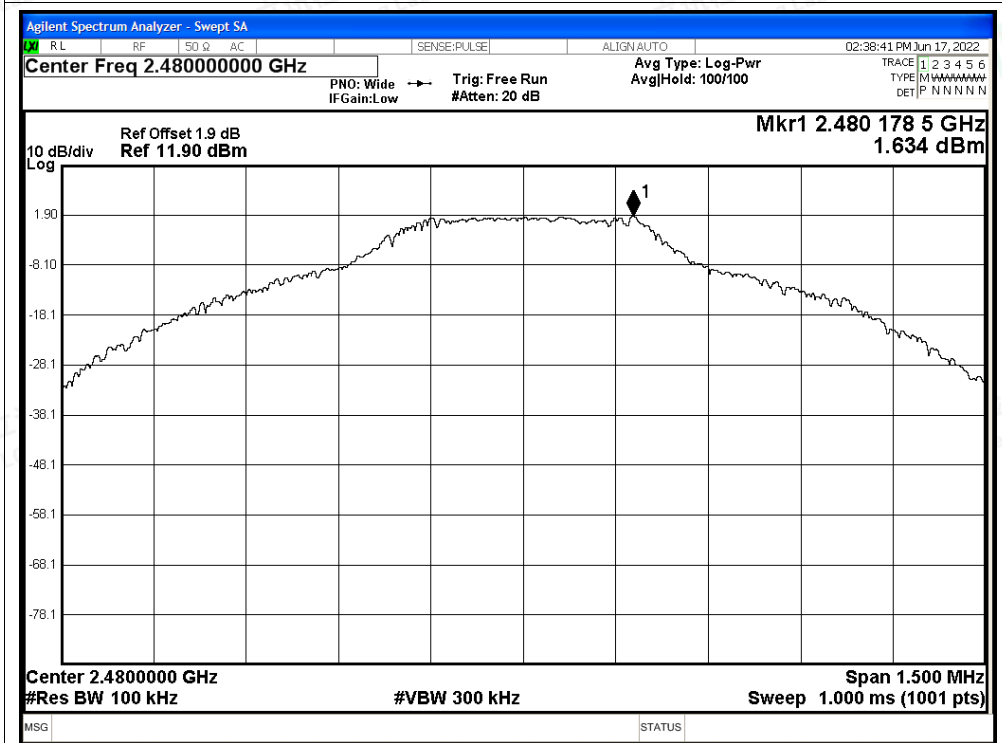


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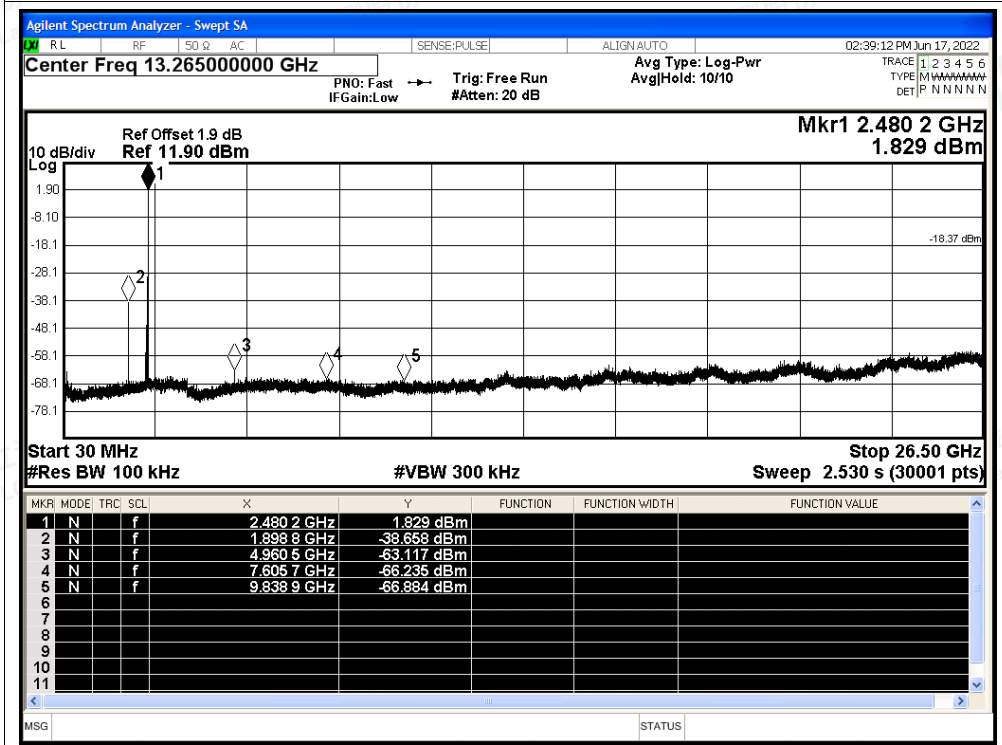




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

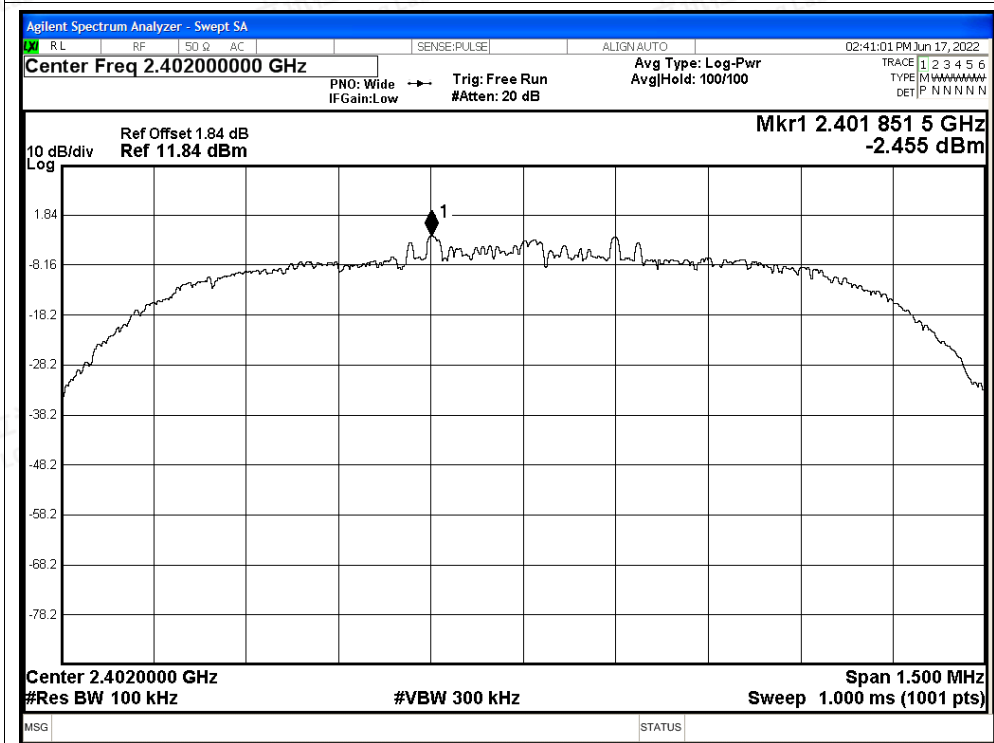


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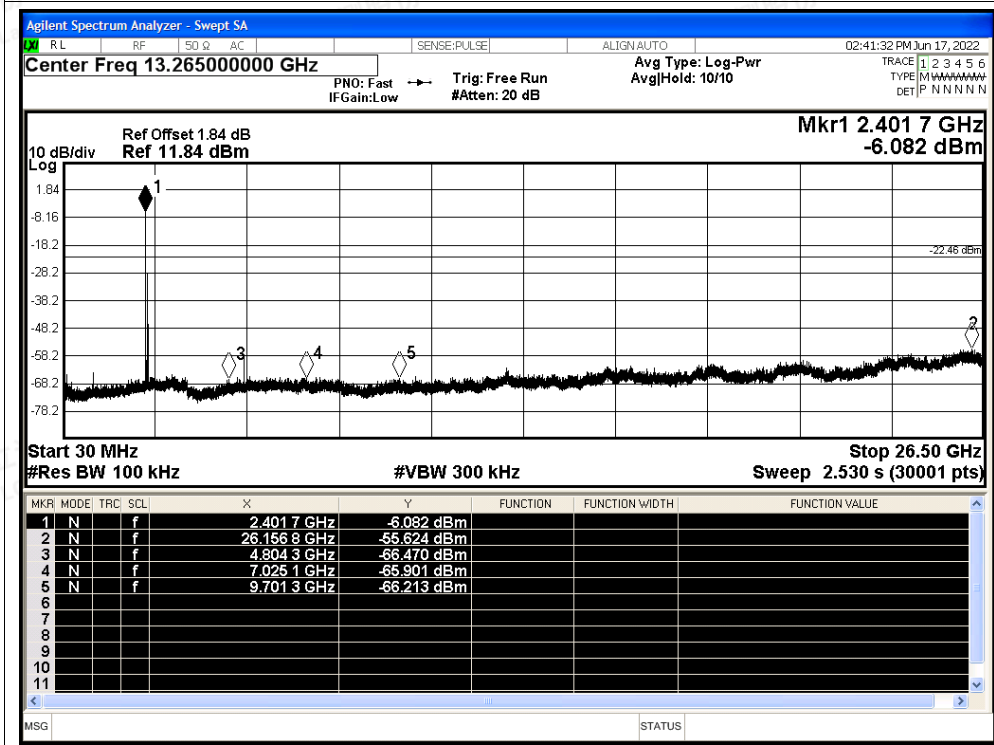




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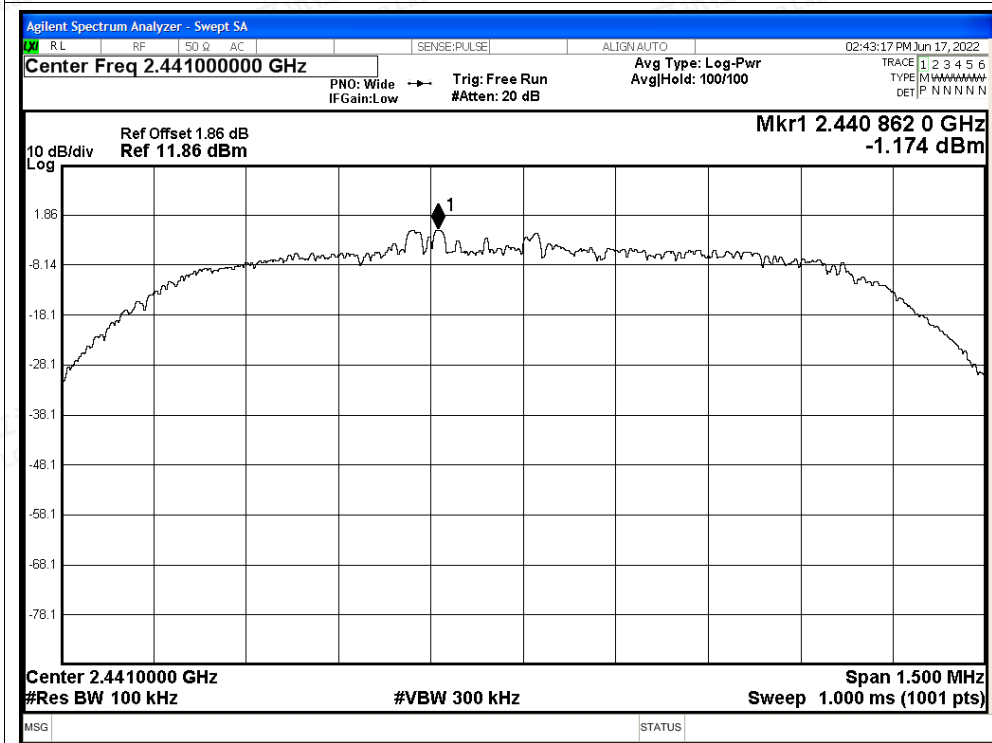


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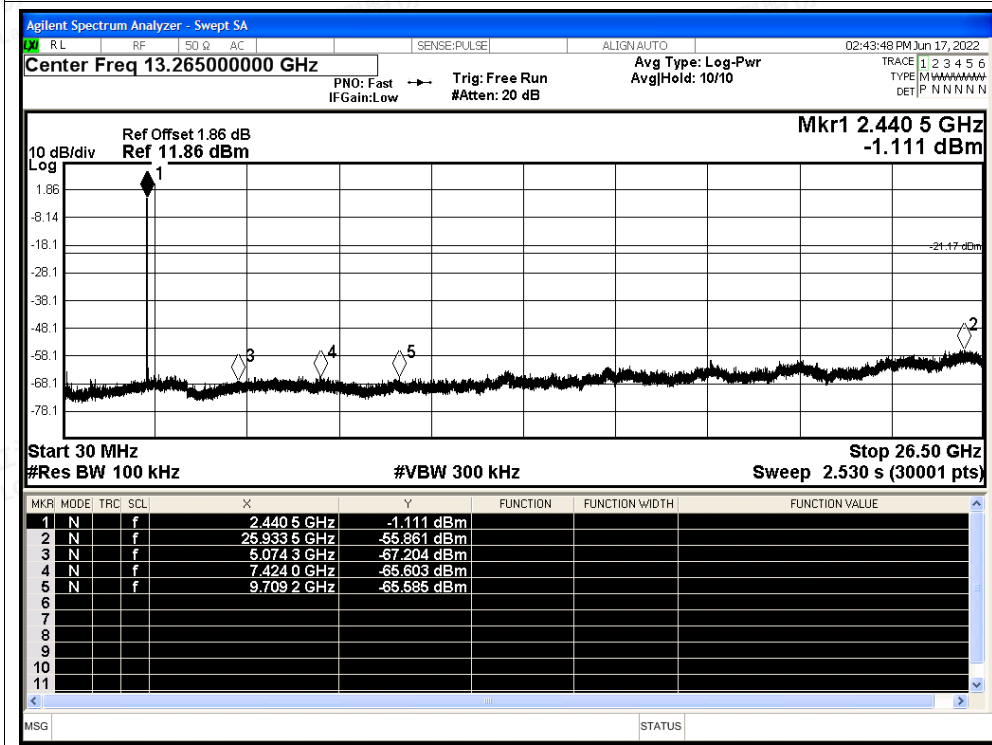




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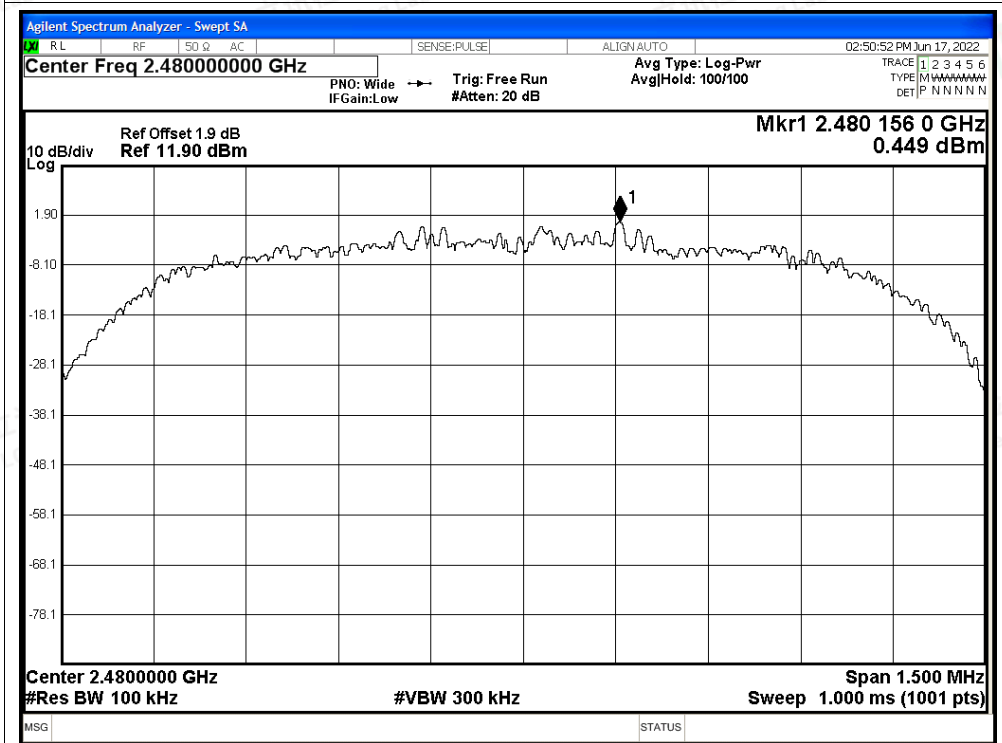


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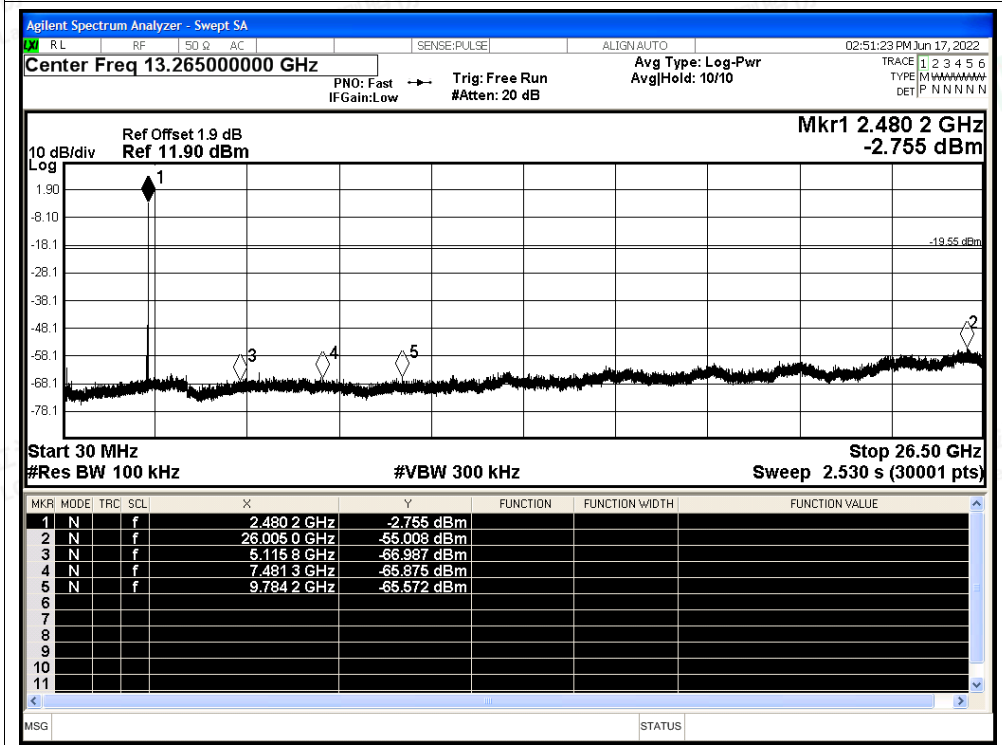




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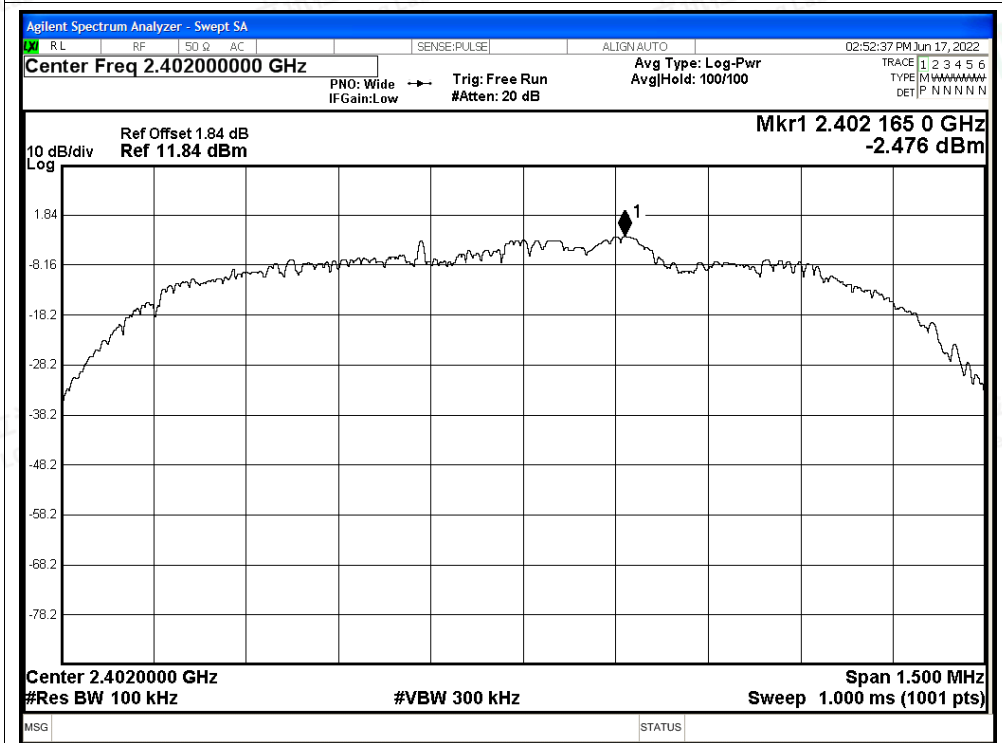


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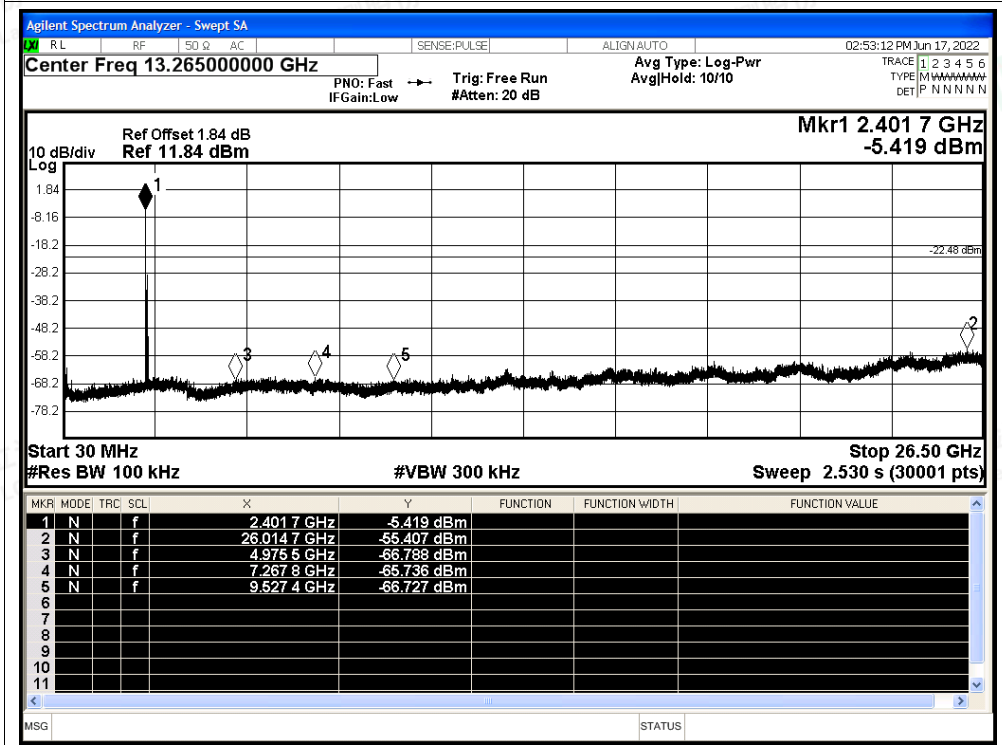




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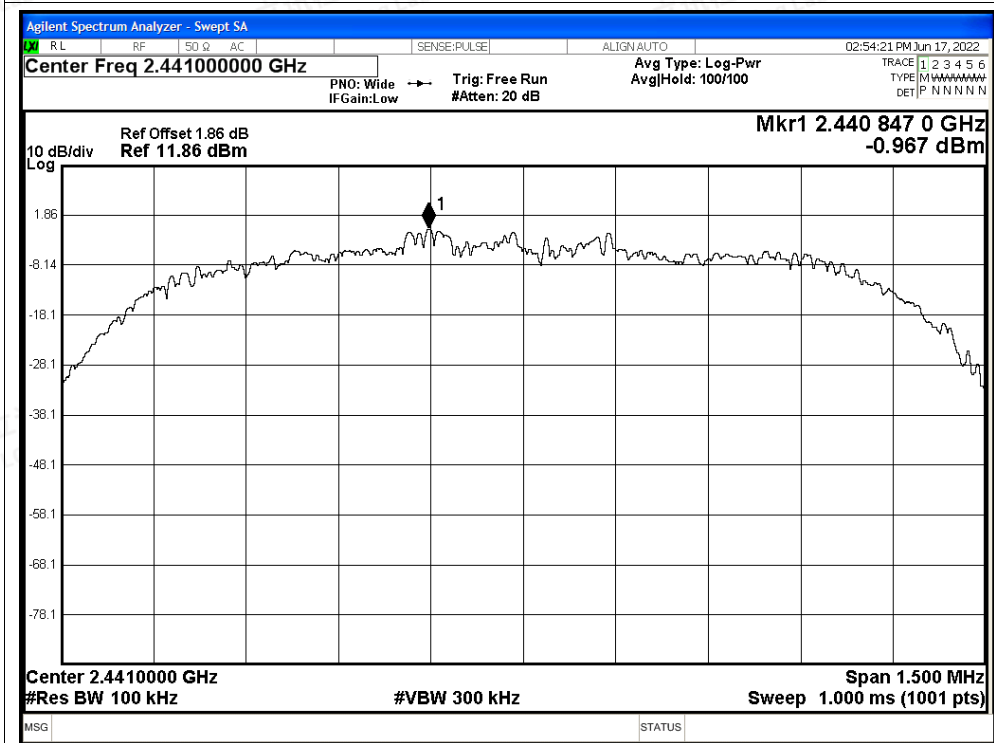


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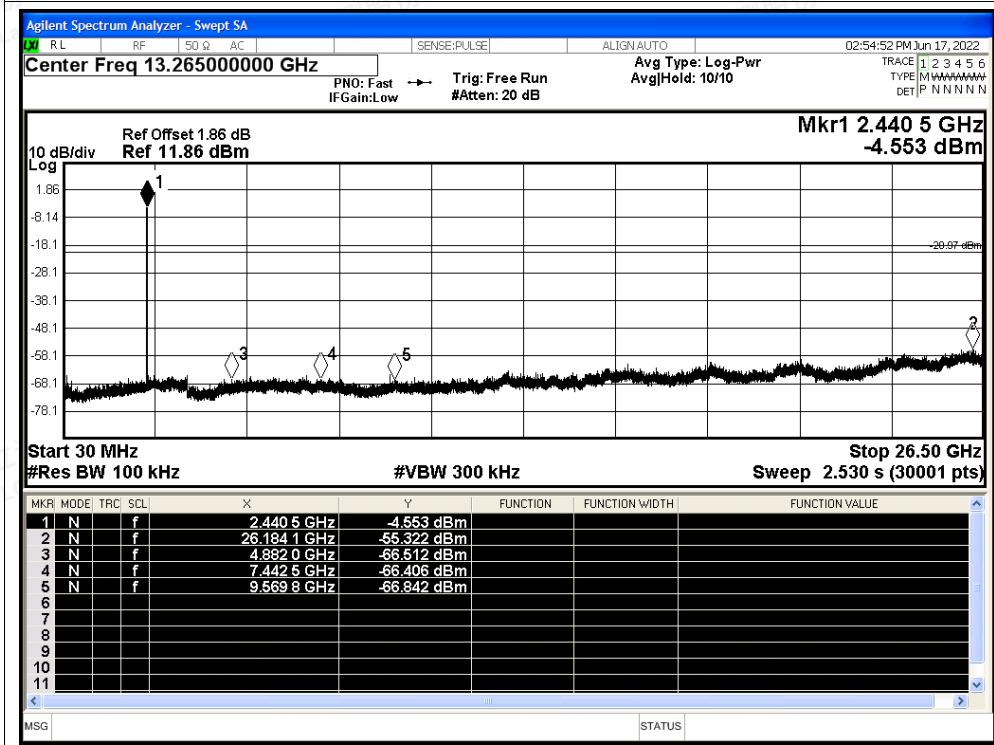




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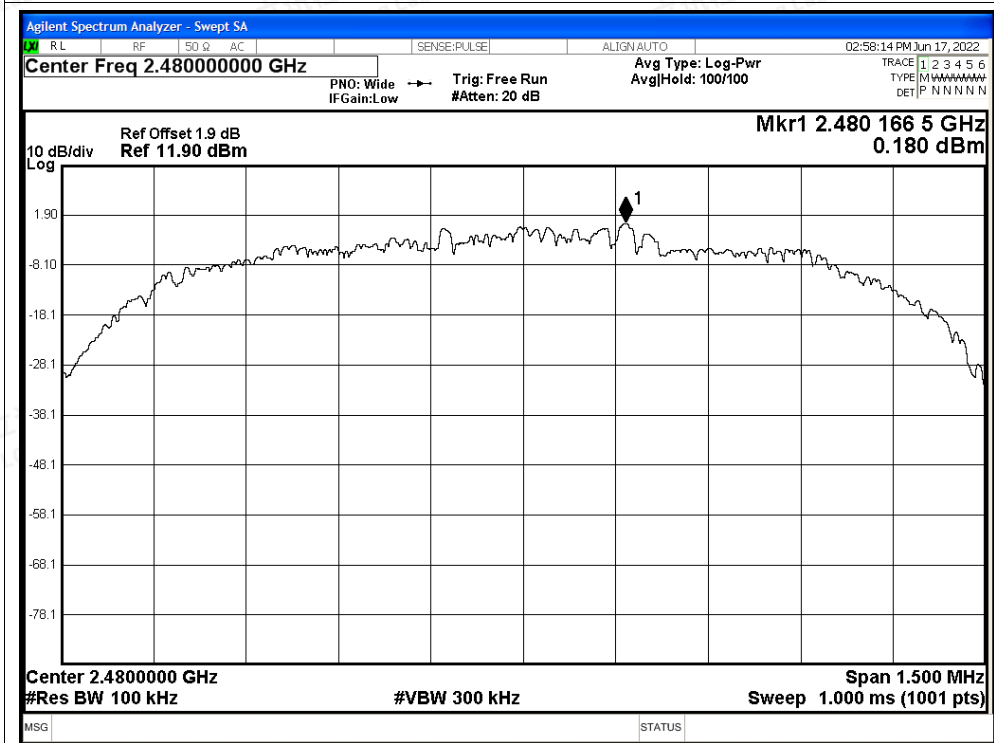


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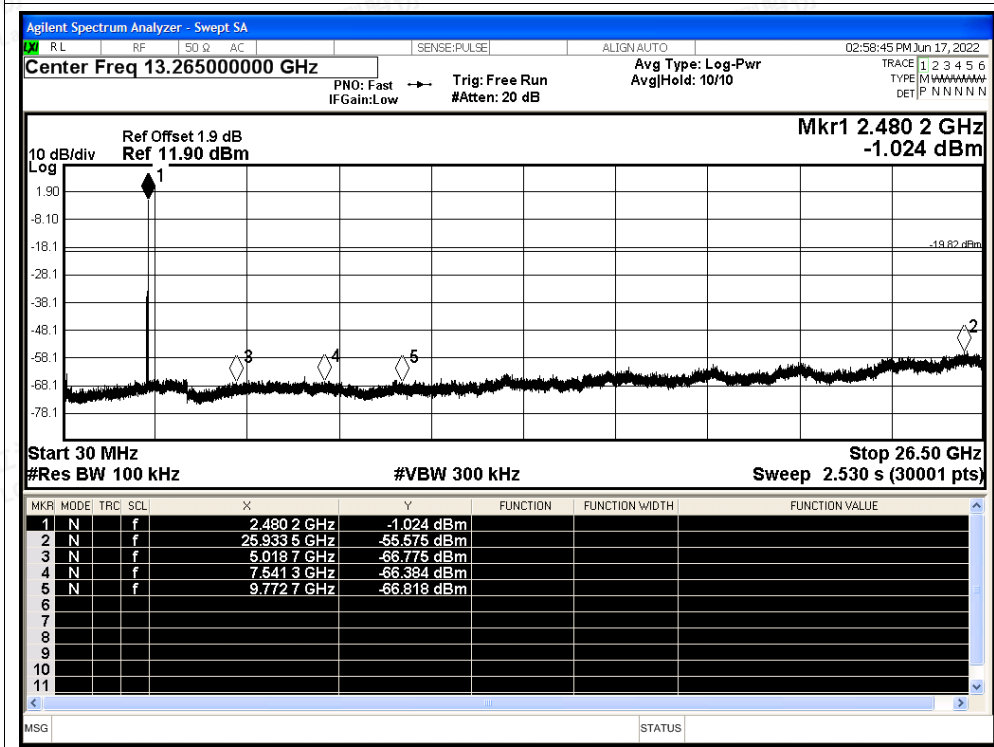




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.36	2	46.9	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.73	2	36.53	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.528	-47.56	2	49.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2366.64	-60.2	2	37.06	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.49	2	45.77	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.41	2	36.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.07	2	47.19	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.68	2	37.58	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.776	-47.92	2	49.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-59.56	2	37.7	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.28	2	46.98	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.01	2	37.25	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.29	2	45.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.67	2	36.59	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2325.168	-48.2	2	49.06	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.624	-60.17	2	37.09	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.67	2	47.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.34	2	36.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.36	2	47.9	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.55	2	37.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.328	-46.97	2	50.29	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.04	-59.49	2	37.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.78	2	47.48	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.12	2	37.14	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.94	2	47.32	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.7	2	36.56	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2365.584	-48.21	2	49.05	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.784	-60.19	2	37.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.41	2	47.85	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.37	2	36.89	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.9	2	47.36	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.51	2	37.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.192	-47.06	2	50.2	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-59.45	2	37.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.47	2	46.79	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.04	2	37.22	Average	54	Pass

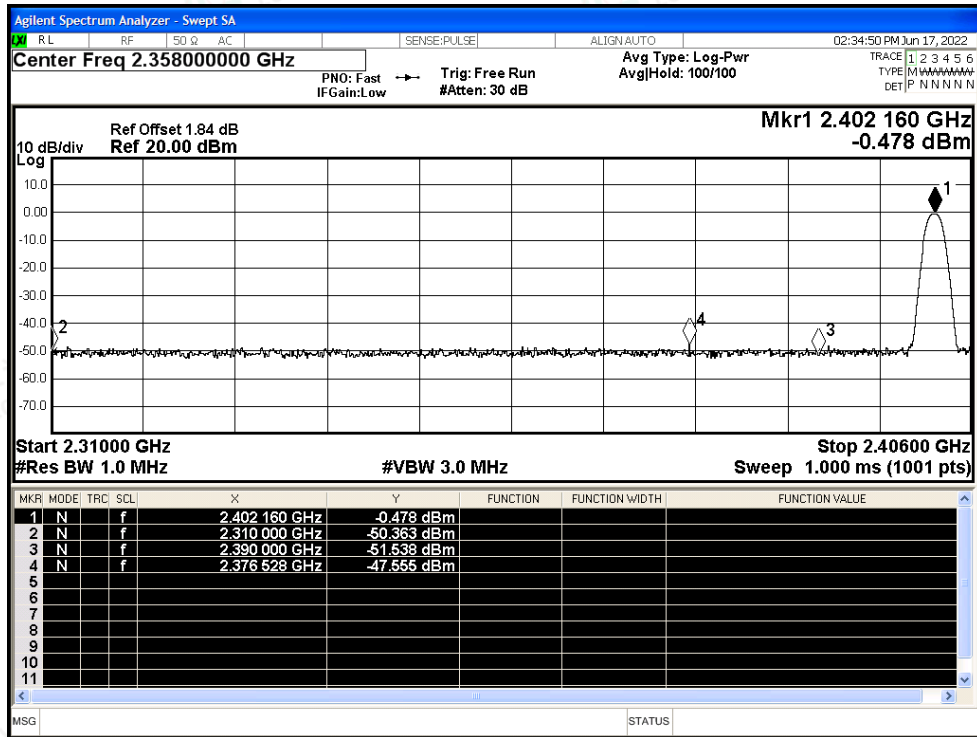


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 Scan code to check authenticity

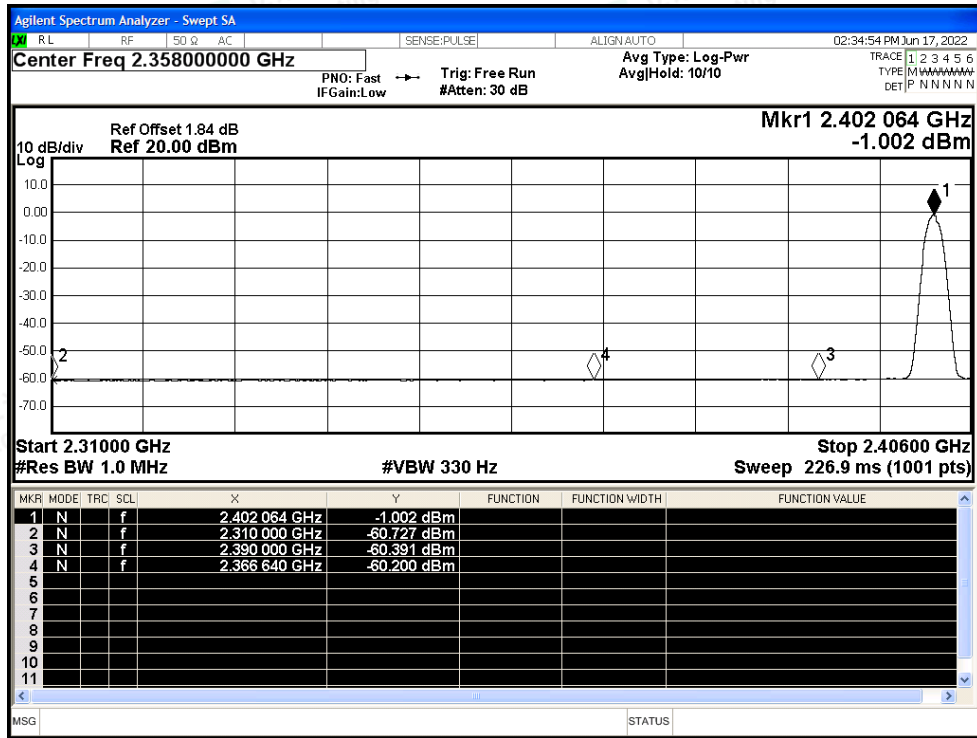


Test Graphs

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

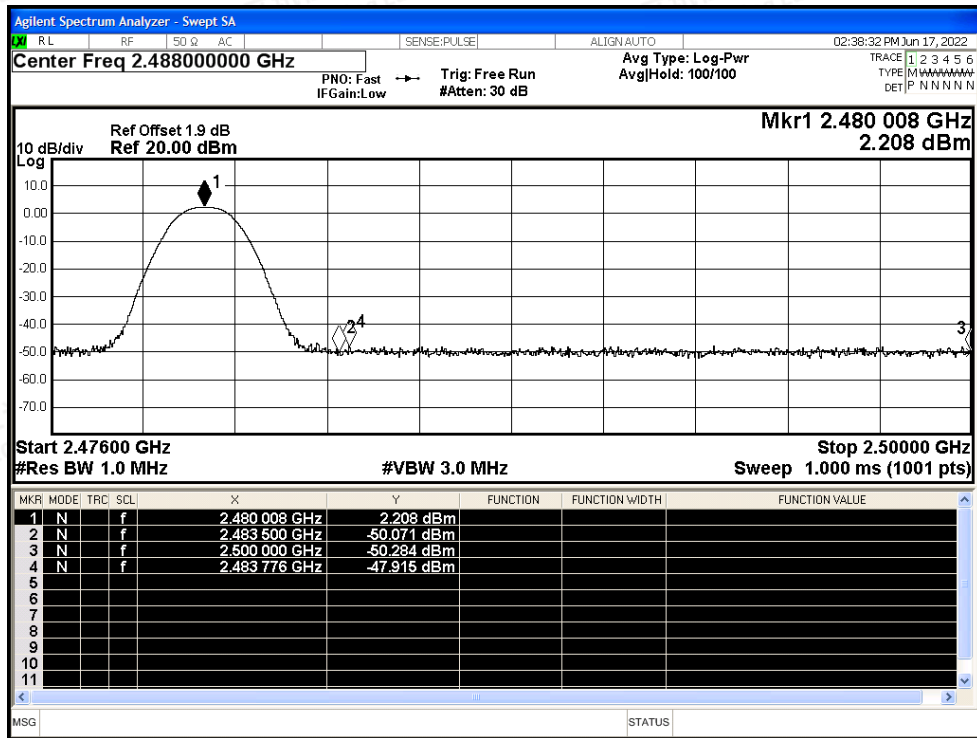


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

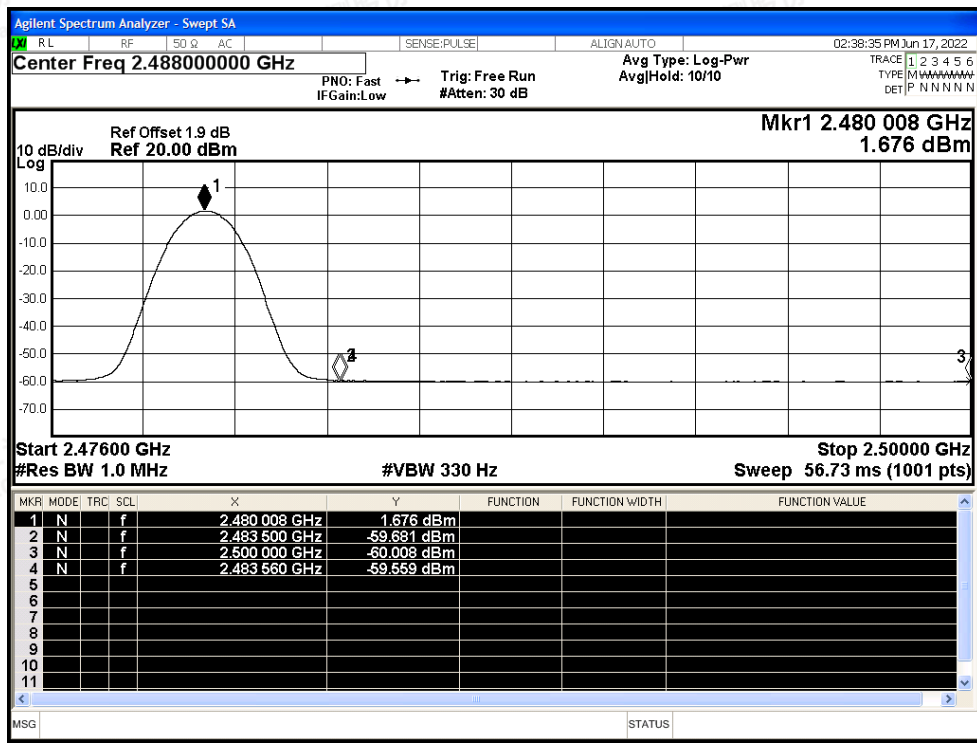




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

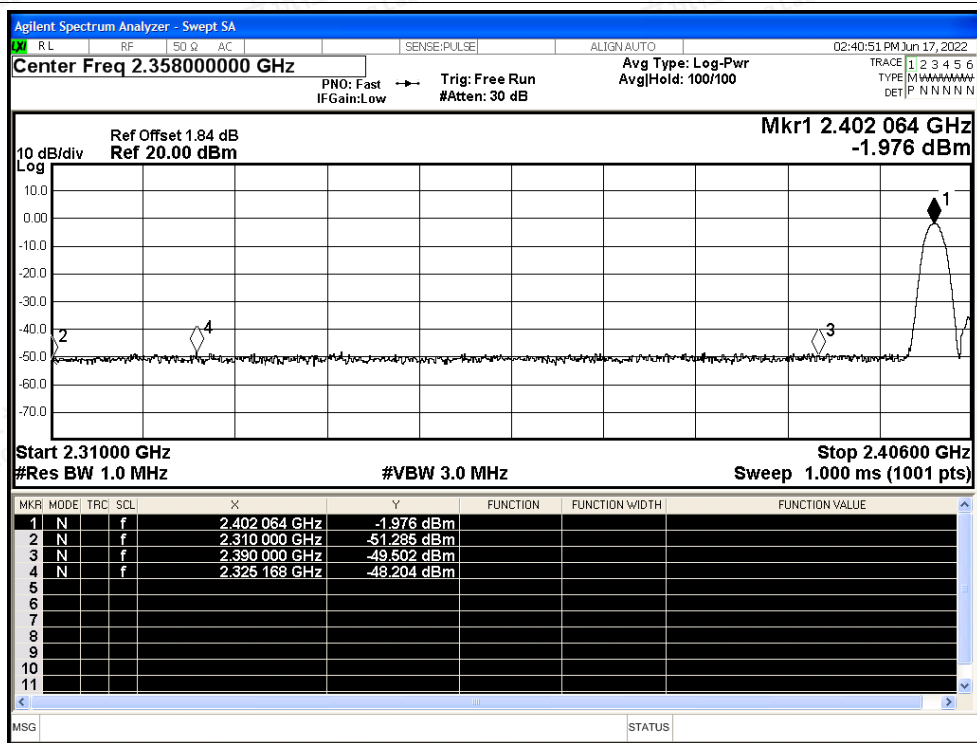


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

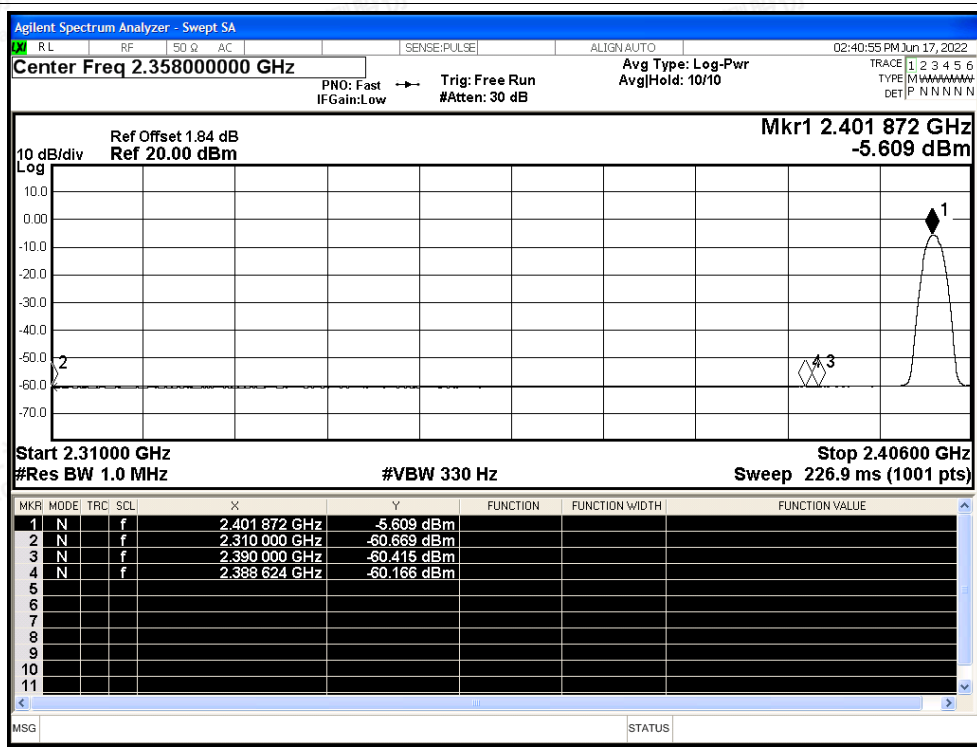




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

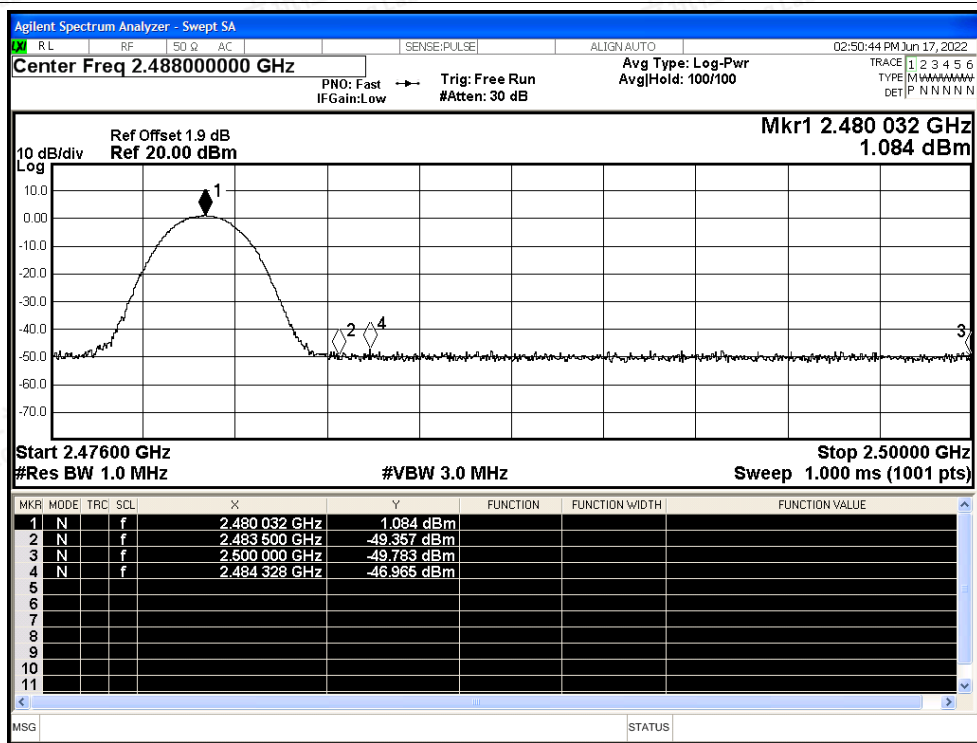


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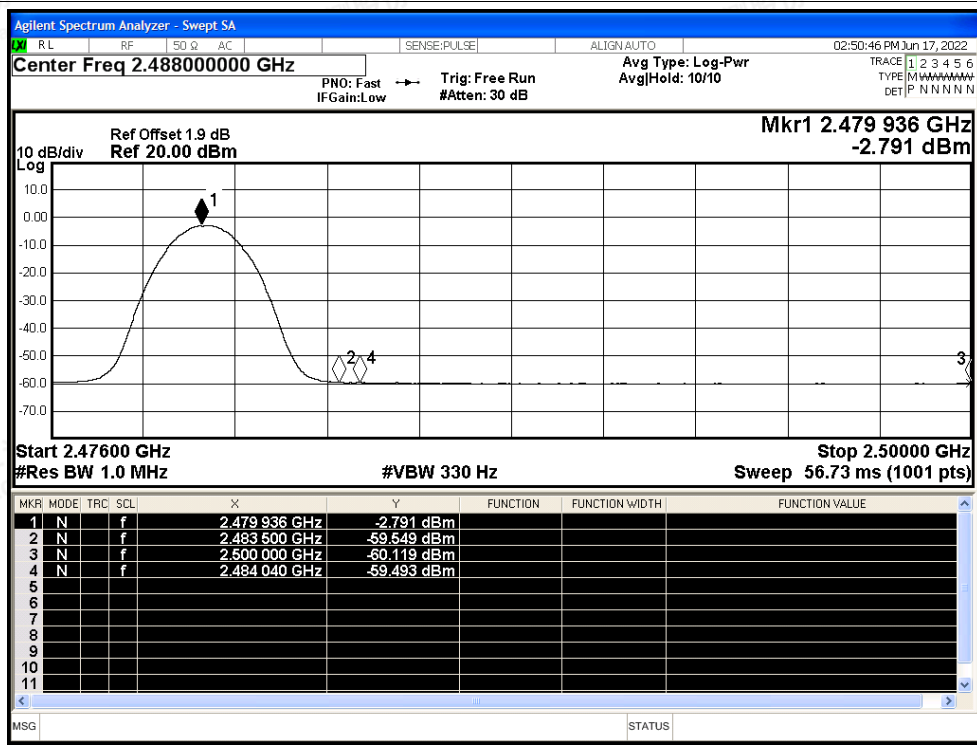




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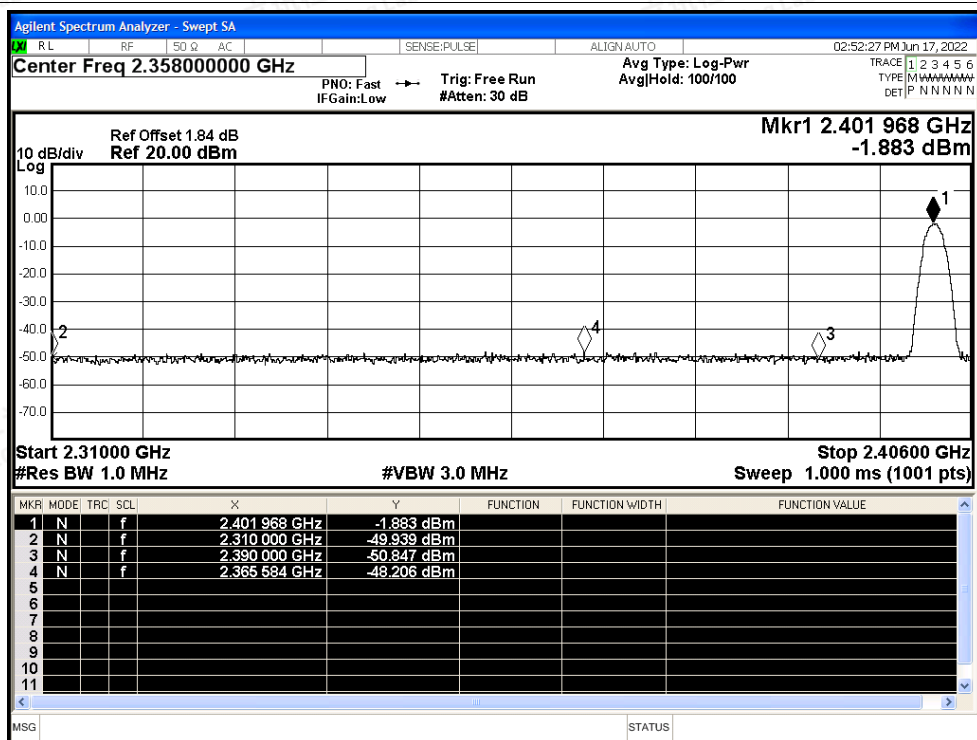


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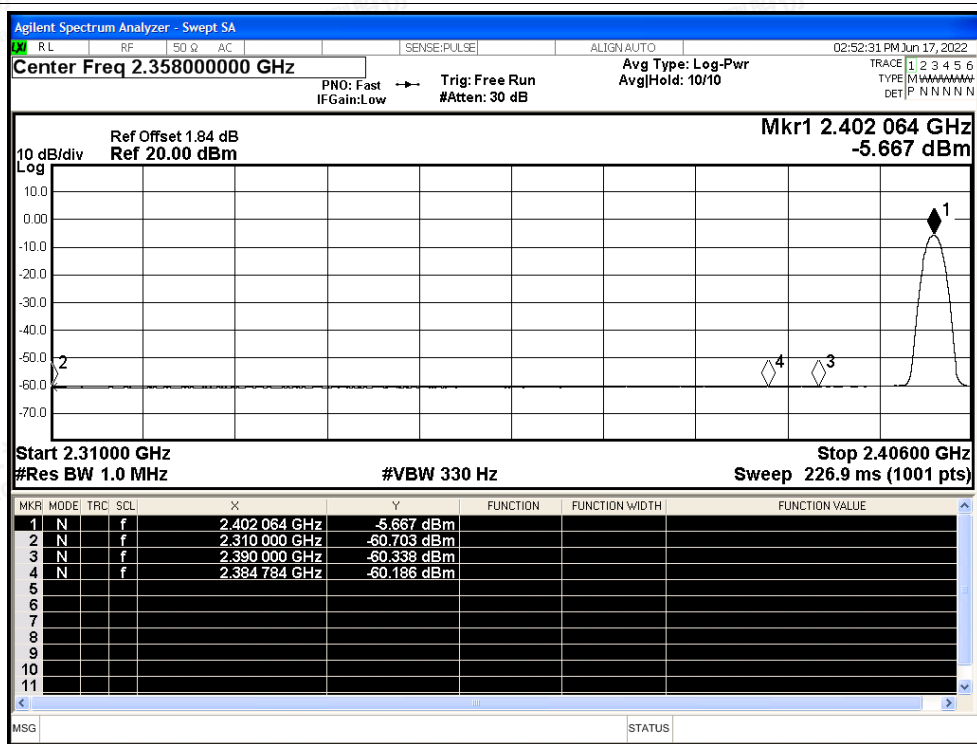




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

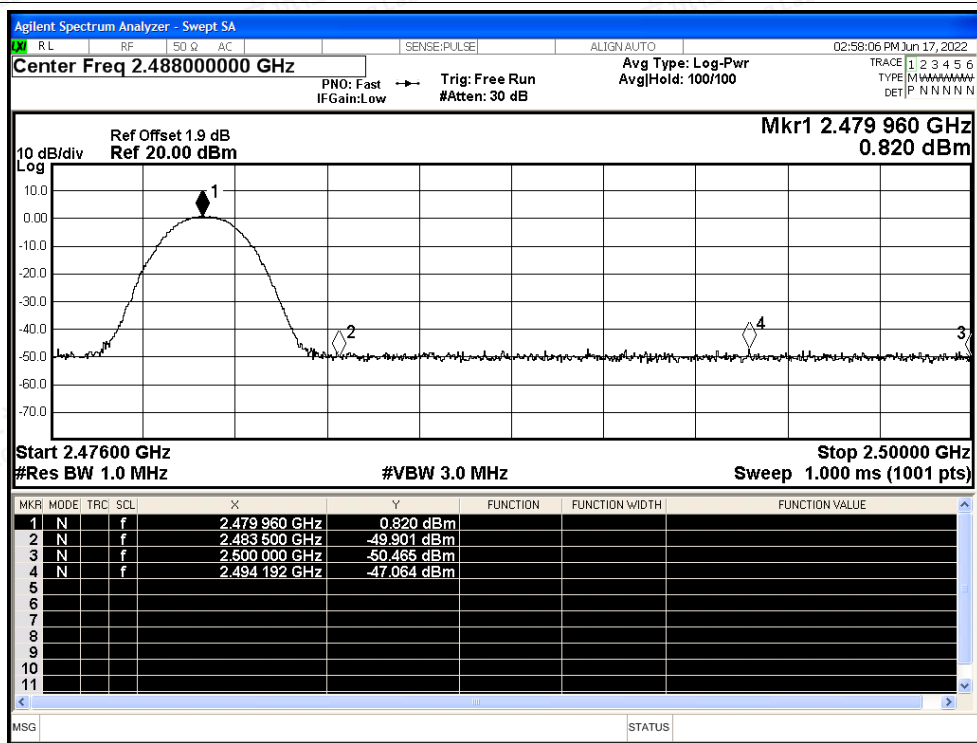


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

