



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BLUETOOTH PARTY SYSTEM

Test Model: GSYS-4800

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
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	0.944	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.936	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.936	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.31	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.35	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.305	N/A	Pass

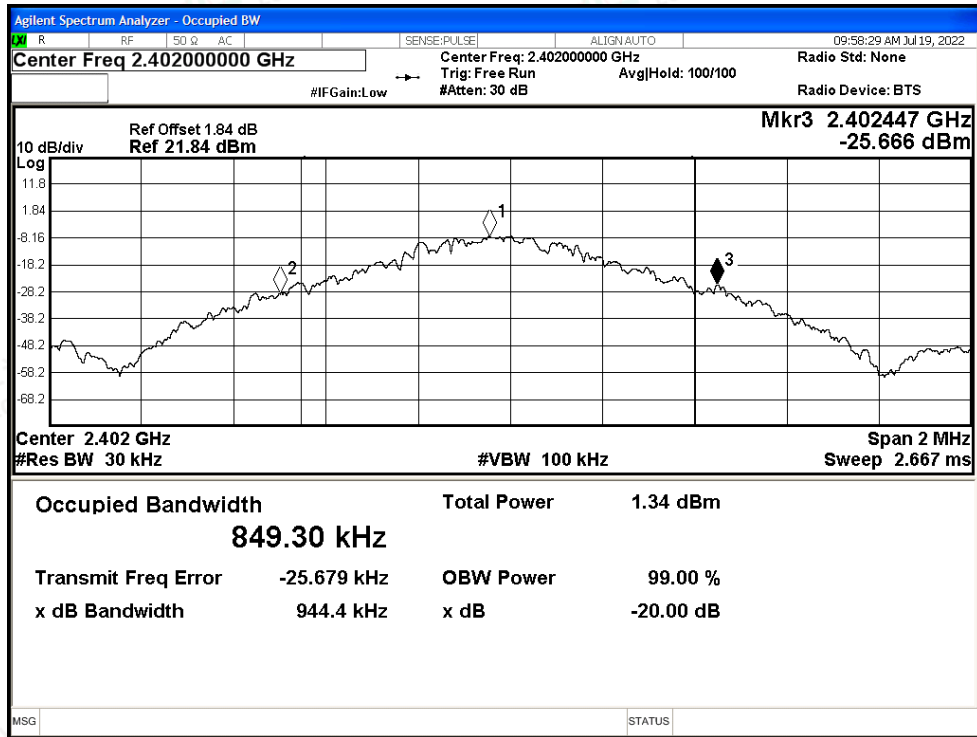


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Scan code to check authenticity

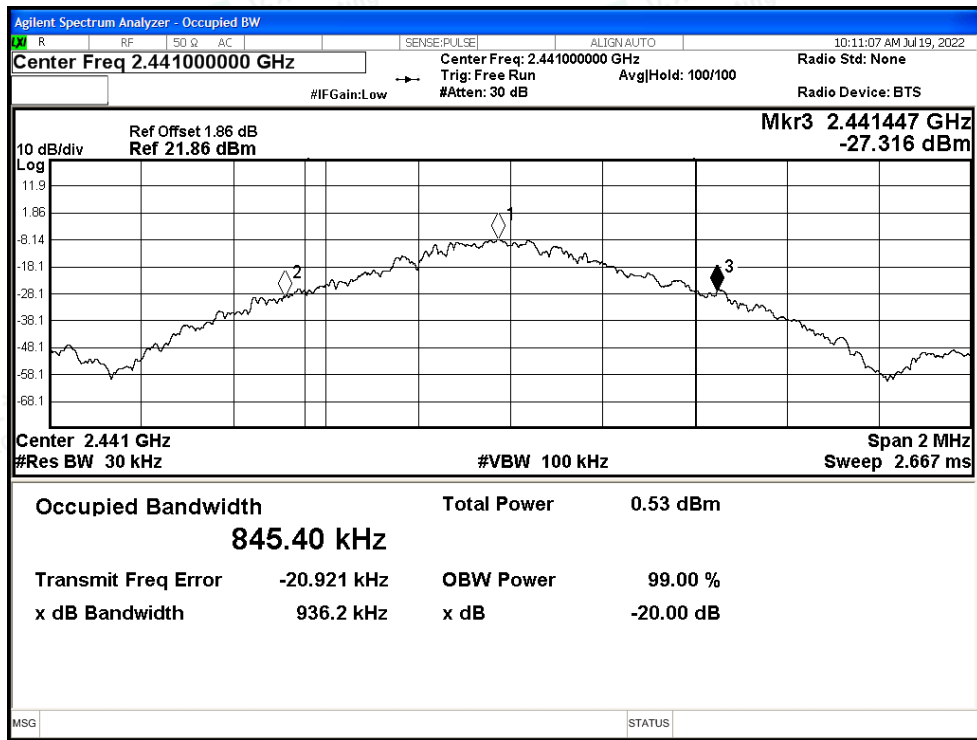


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

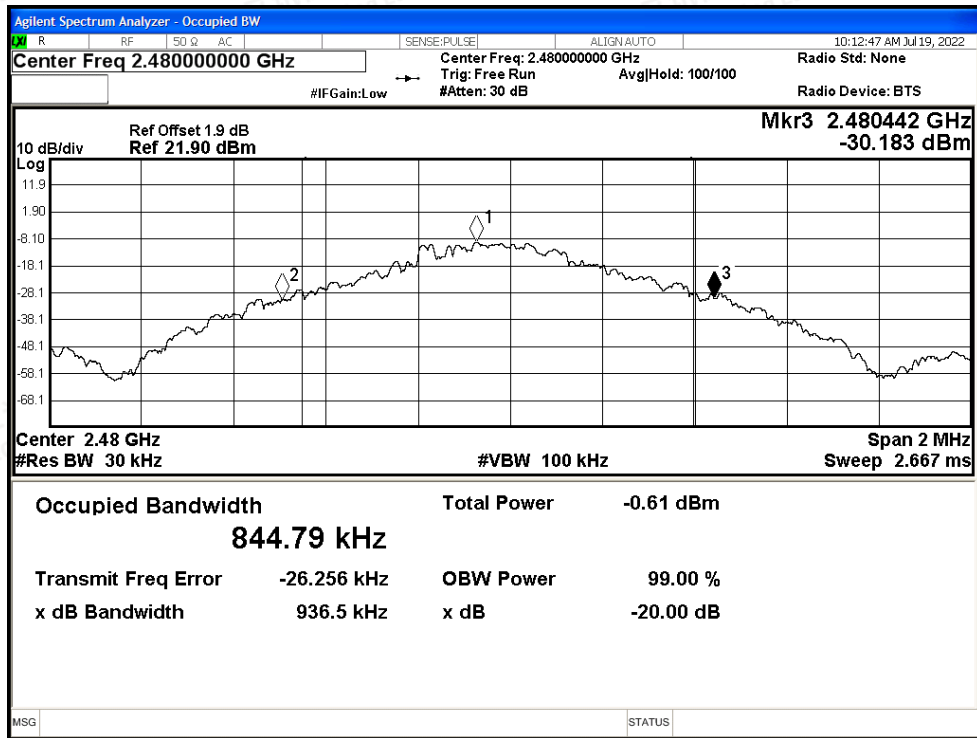


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

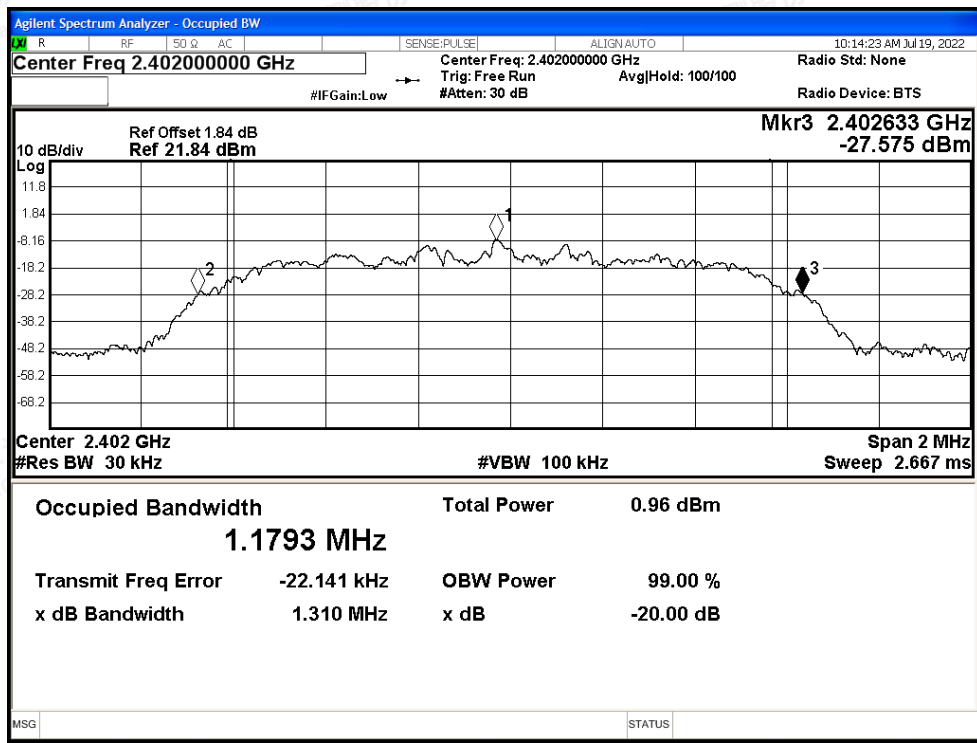




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

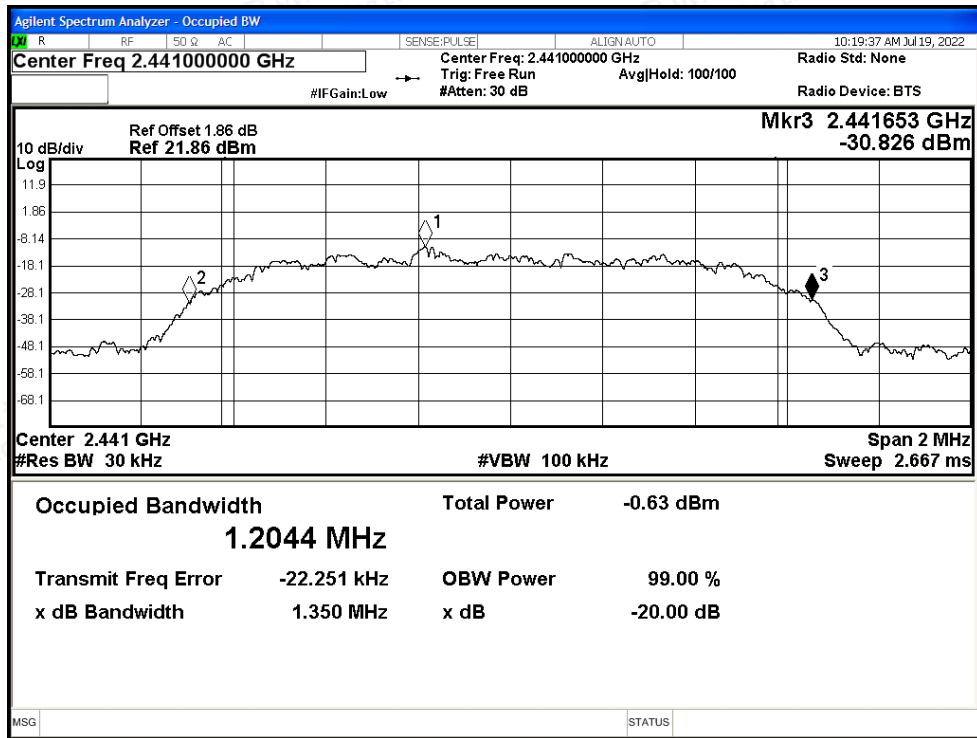


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

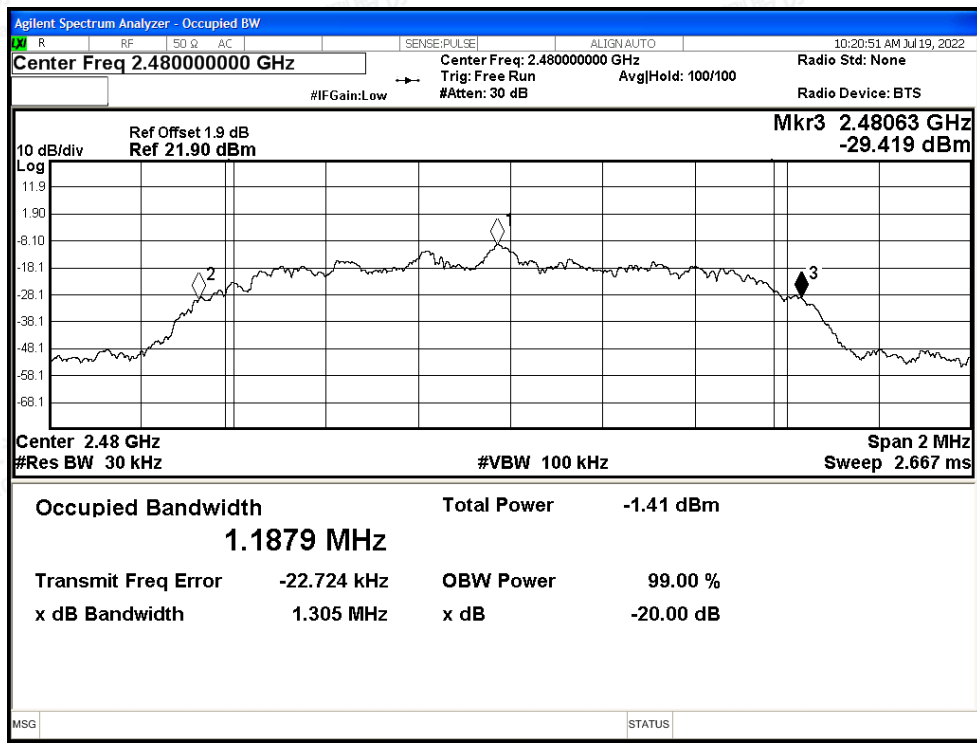




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

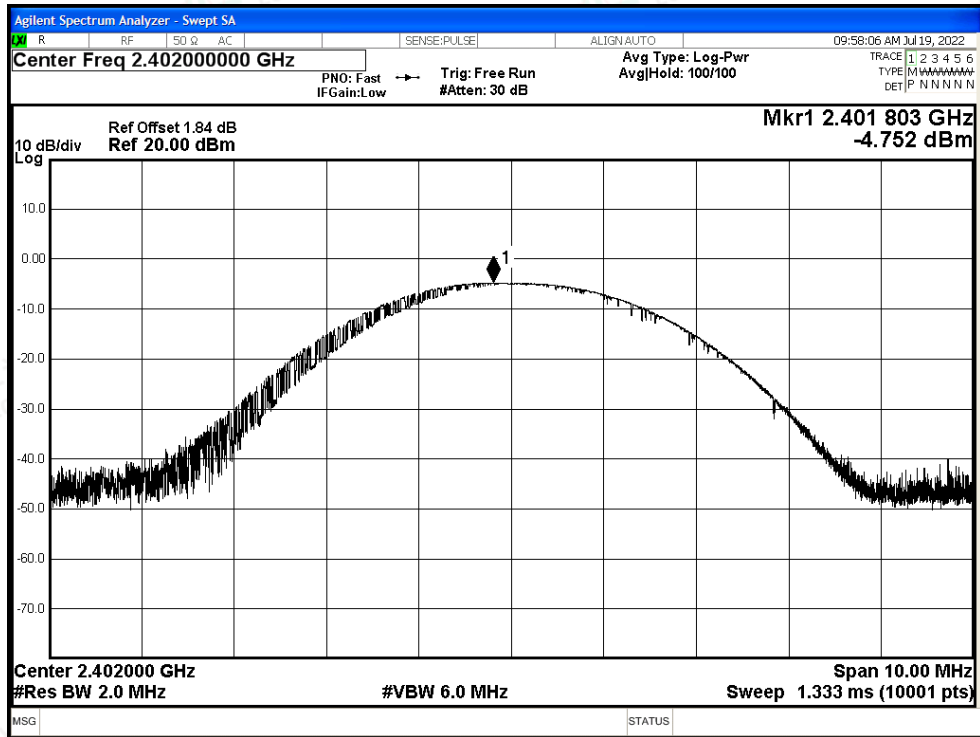
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-4.75	0	-4.75	21	Pass
NVNT	1-DH5	2441	Ant1	-5.55	0	-5.55	21	Pass
NVNT	1-DH5	2480	Ant1	-6.88	0	-6.88	21	Pass
NVNT	2-DH5	2402	Ant1	-3.98	0	-3.98	21	Pass
NVNT	2-DH5	2441	Ant1	-4.88	0	-4.88	21	Pass
NVNT	2-DH5	2480	Ant1	-6.12	0	-6.12	21	Pass



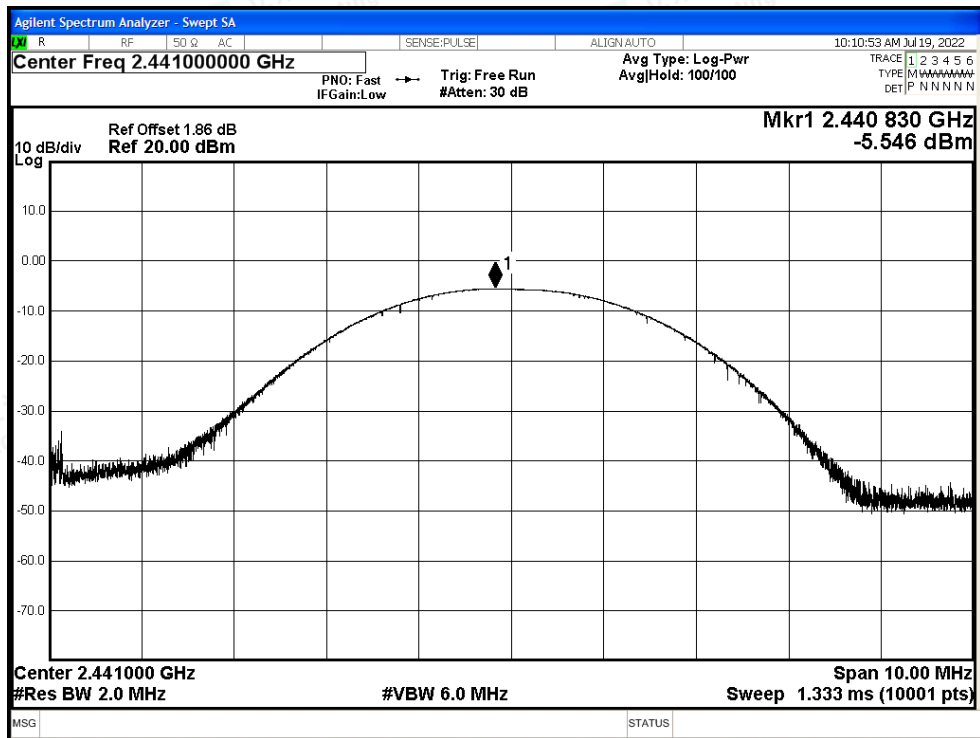


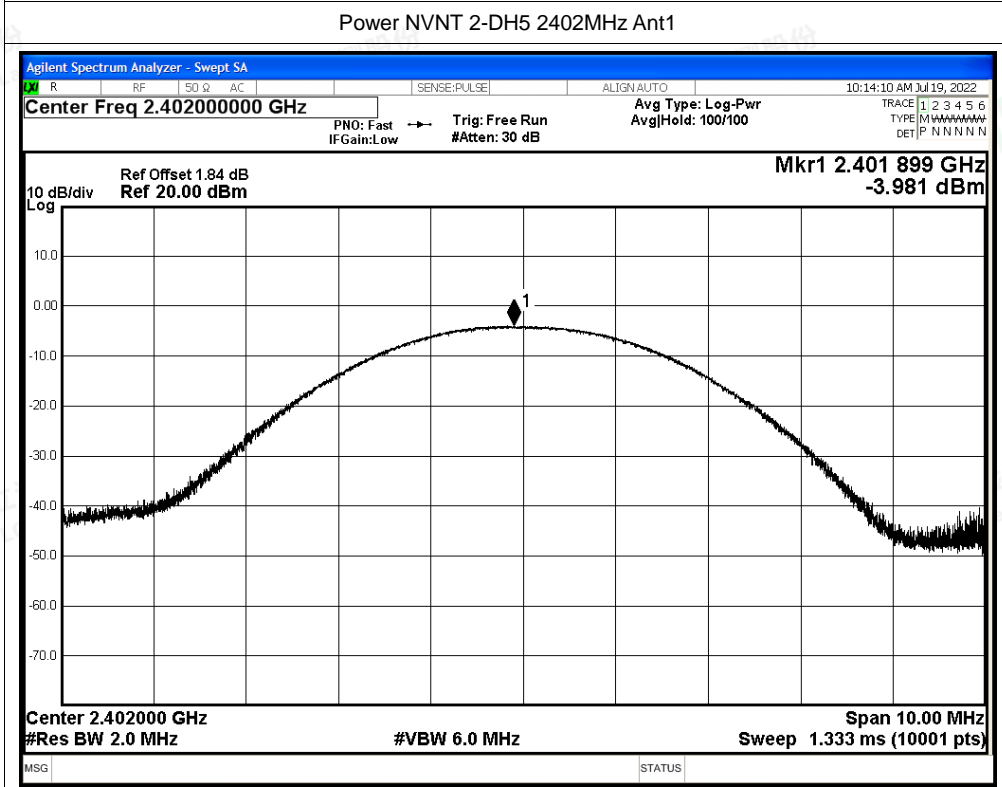
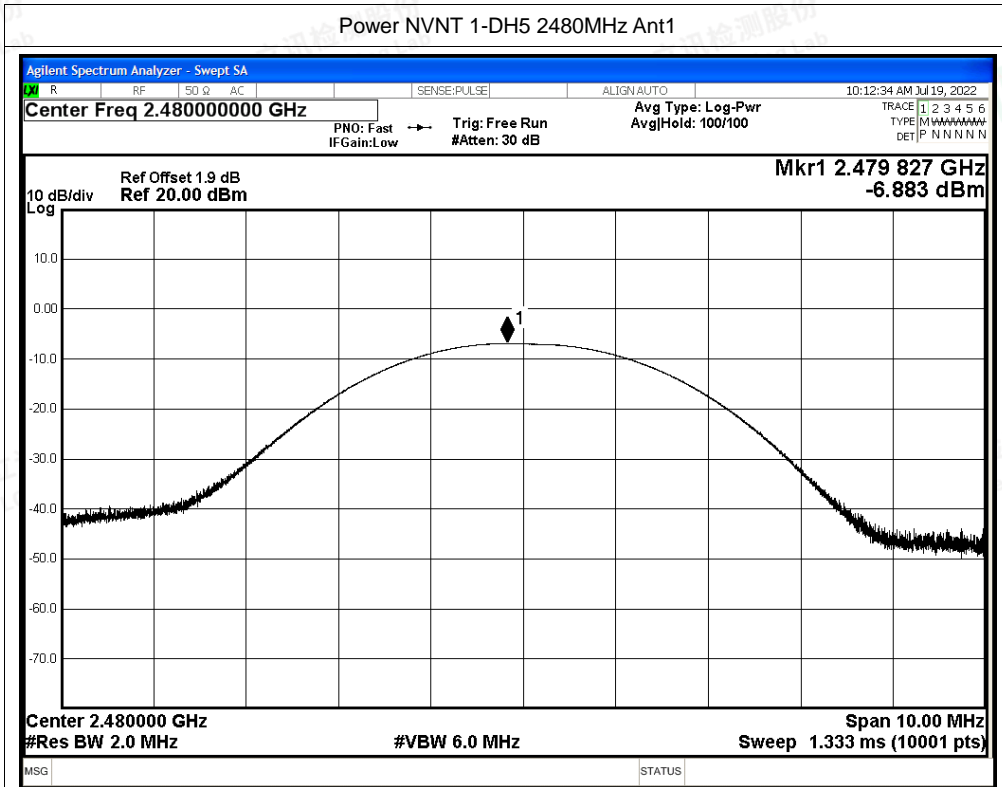
Test Graphs

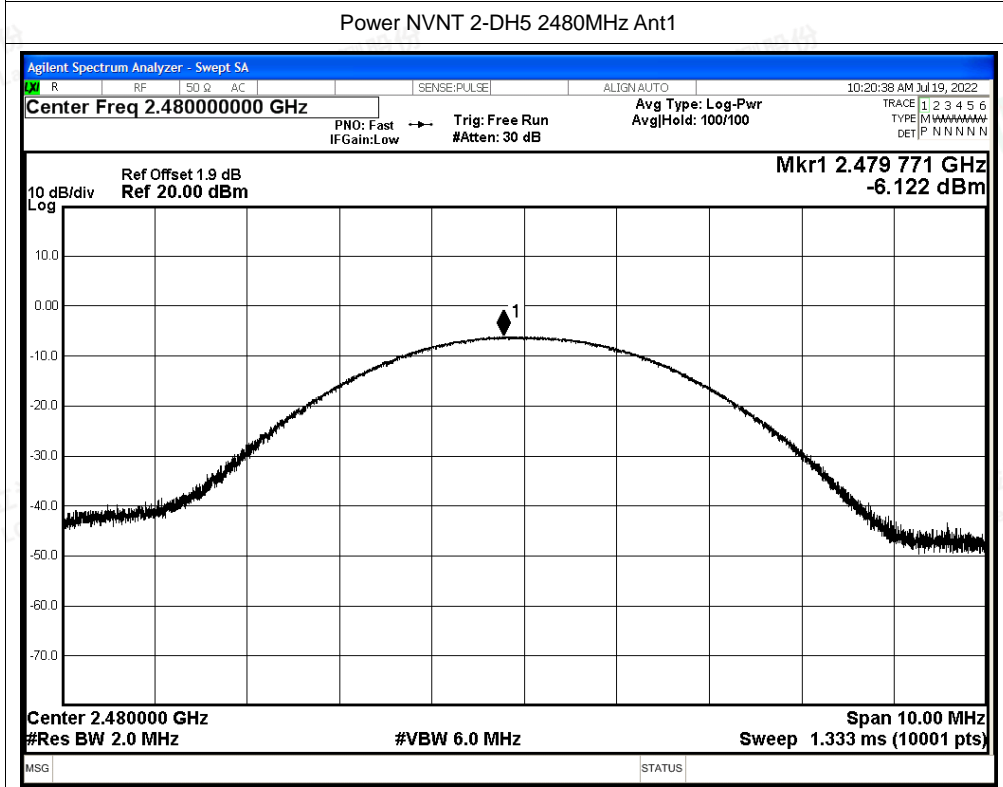
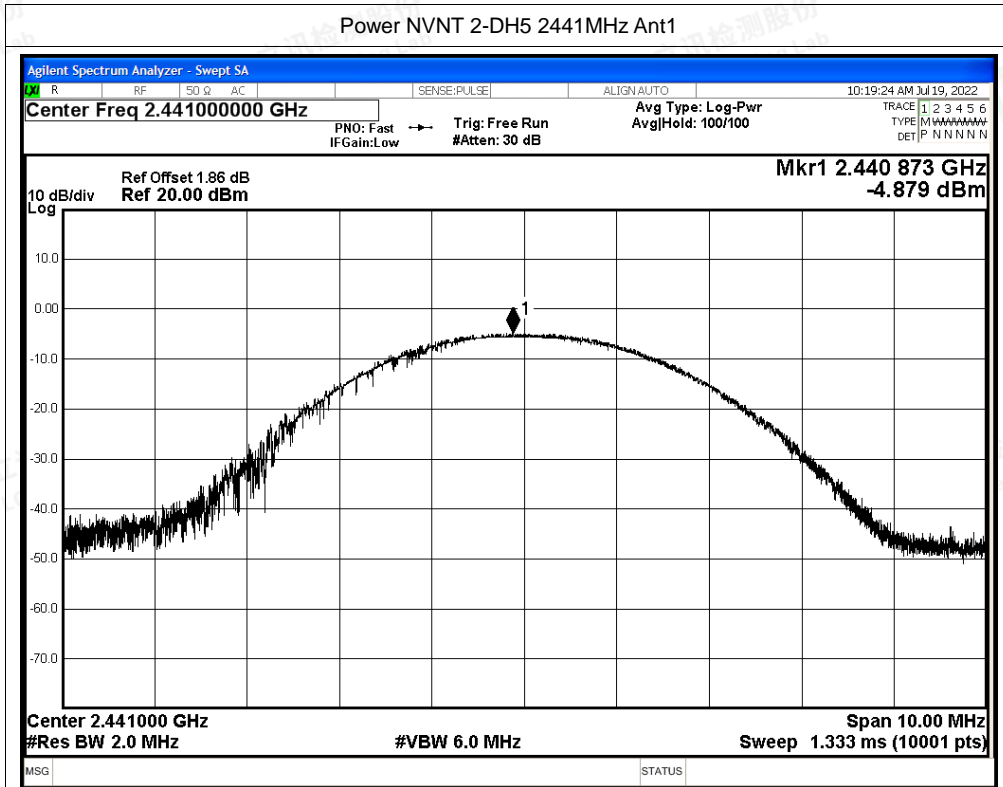
Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-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	2401.926	2403	1.074	0.629	Pass
NVNT	2-DH5	Ant1	2401.804	2402.83	1.026	0.873	Pass

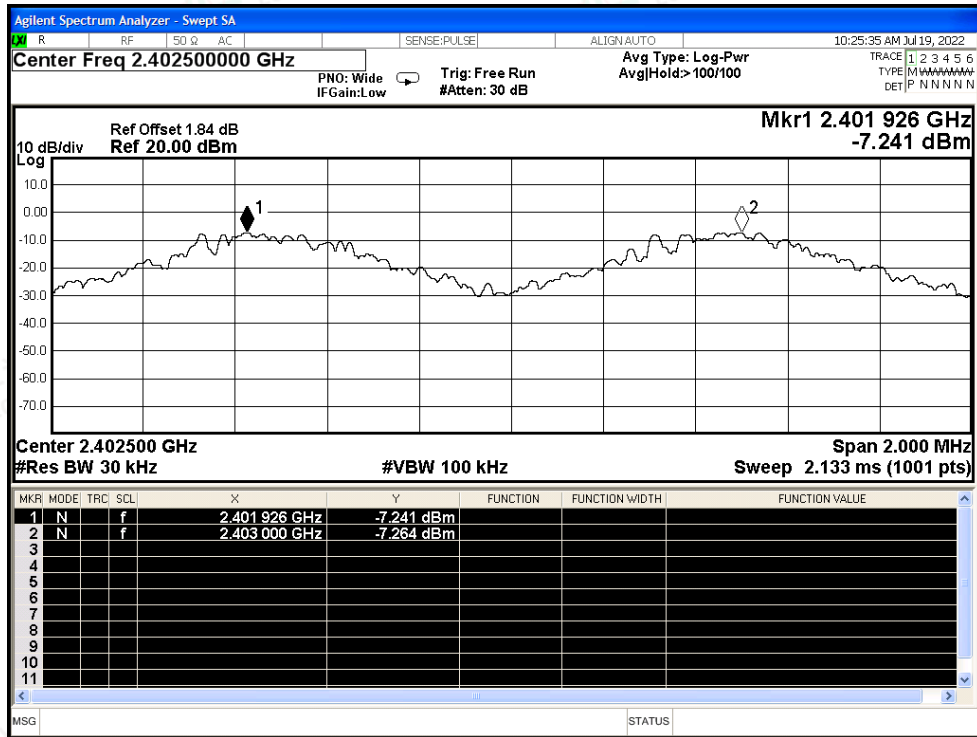


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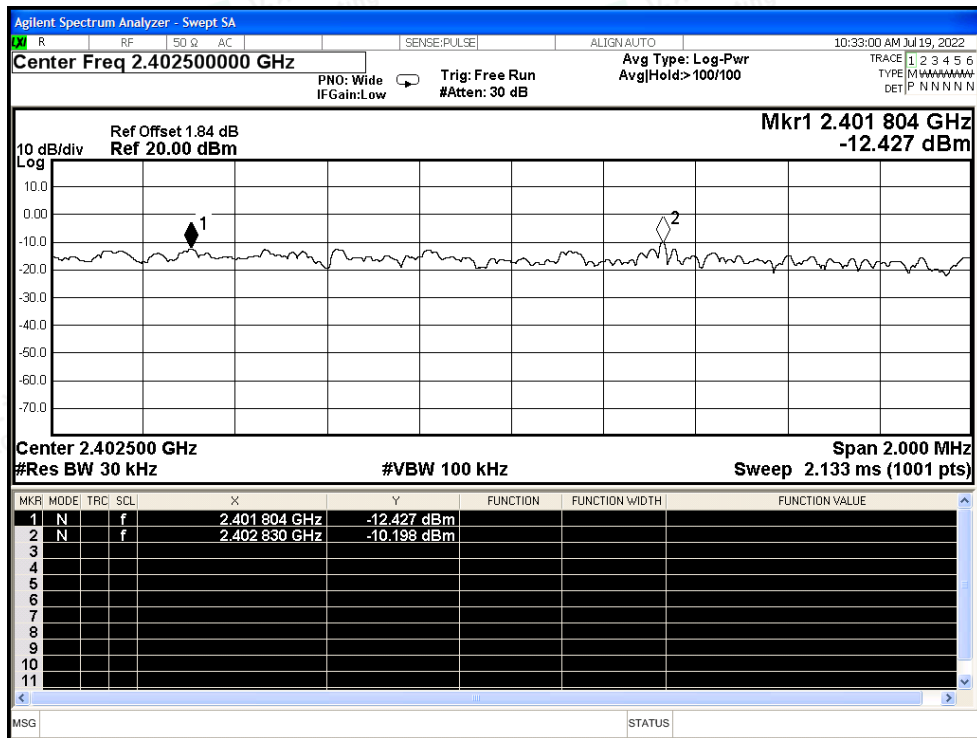


Test Graphs

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	2.88	184.32	64	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.879	187.135	65	31600	400	Pass

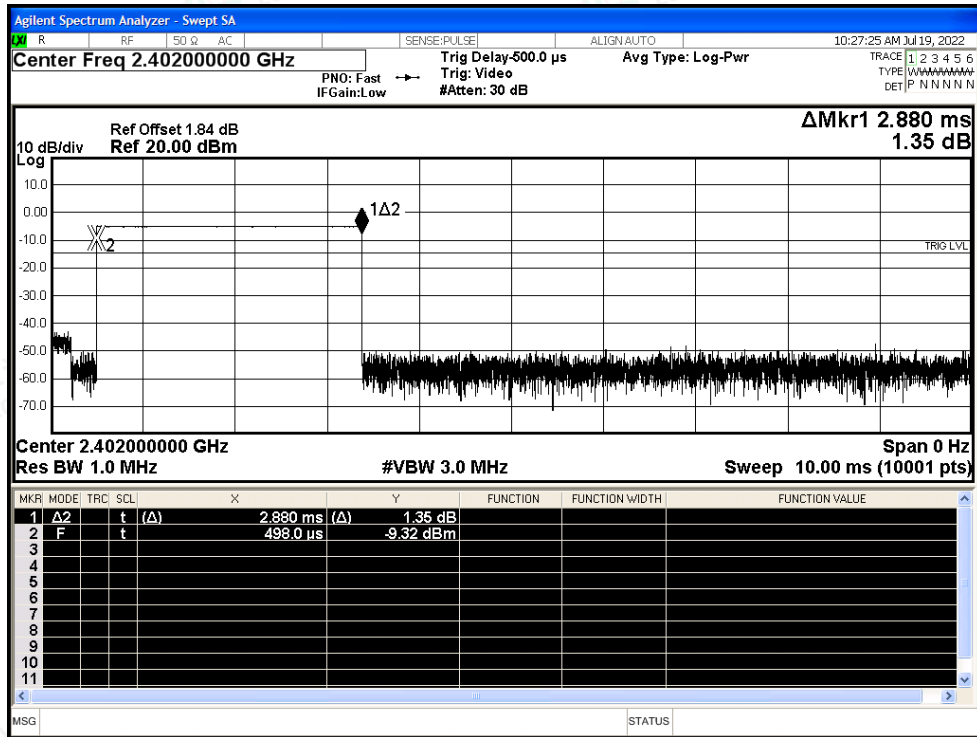


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Scan code to check authenticity

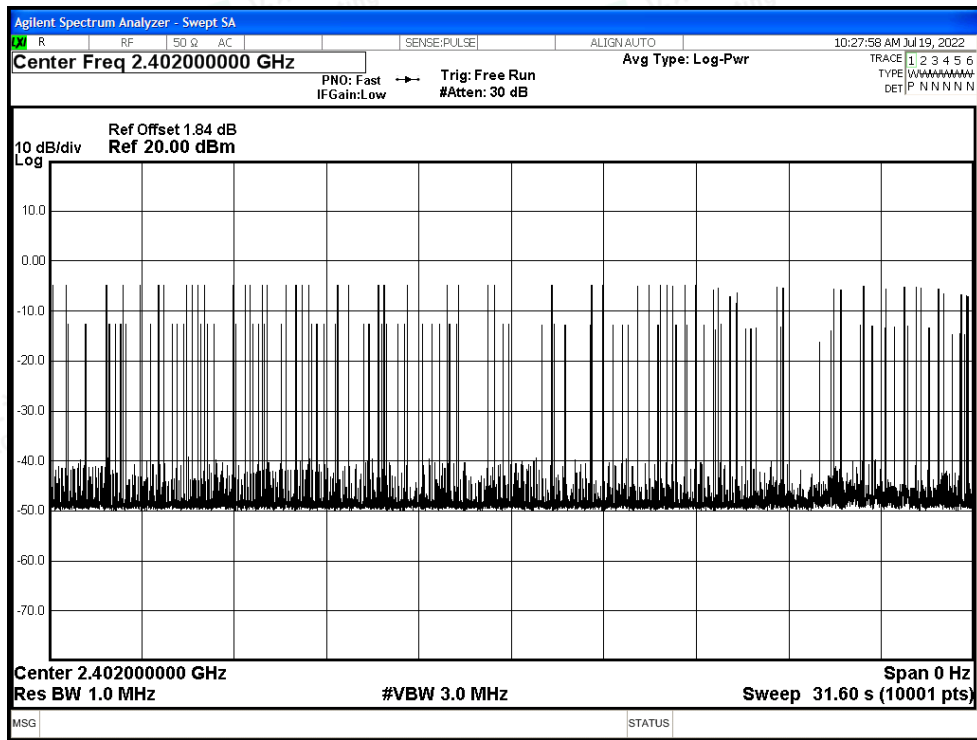


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

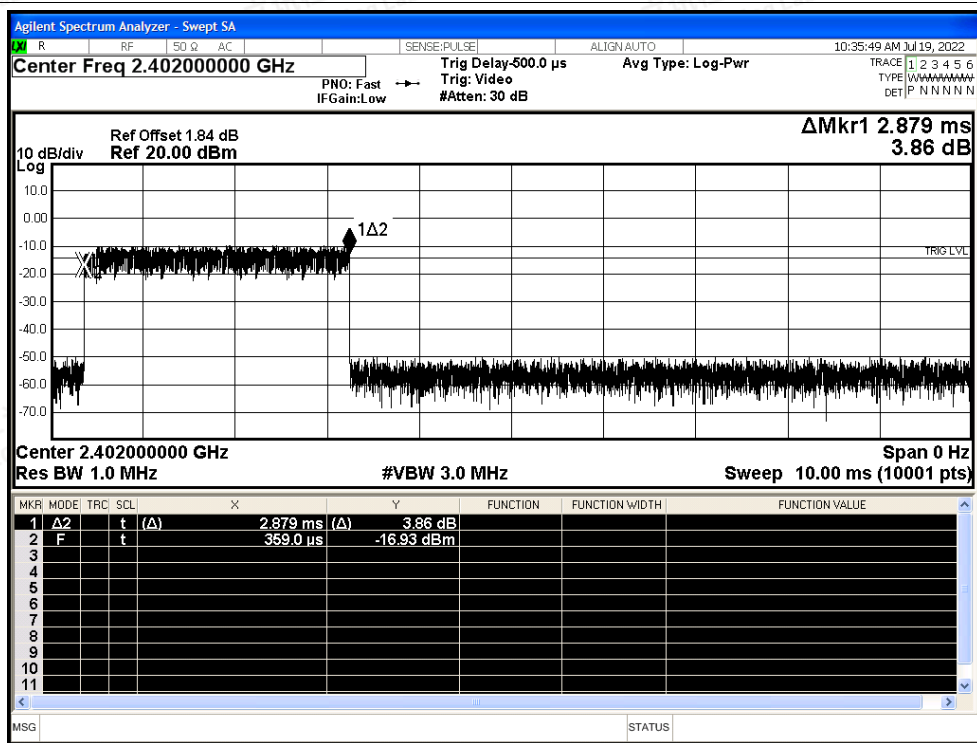


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

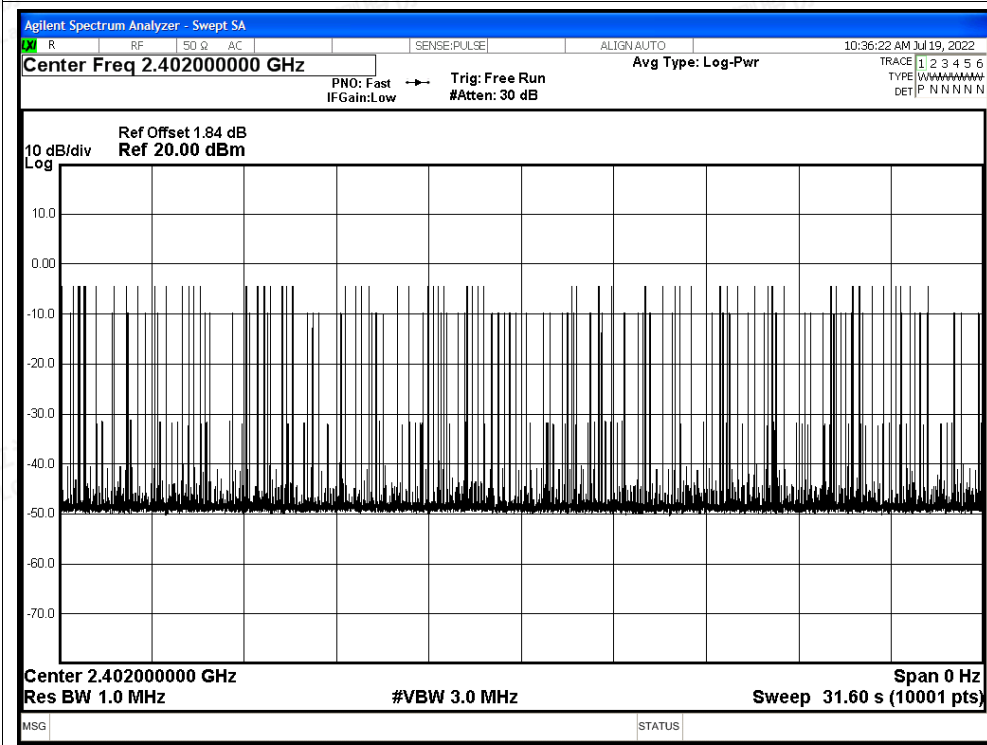




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

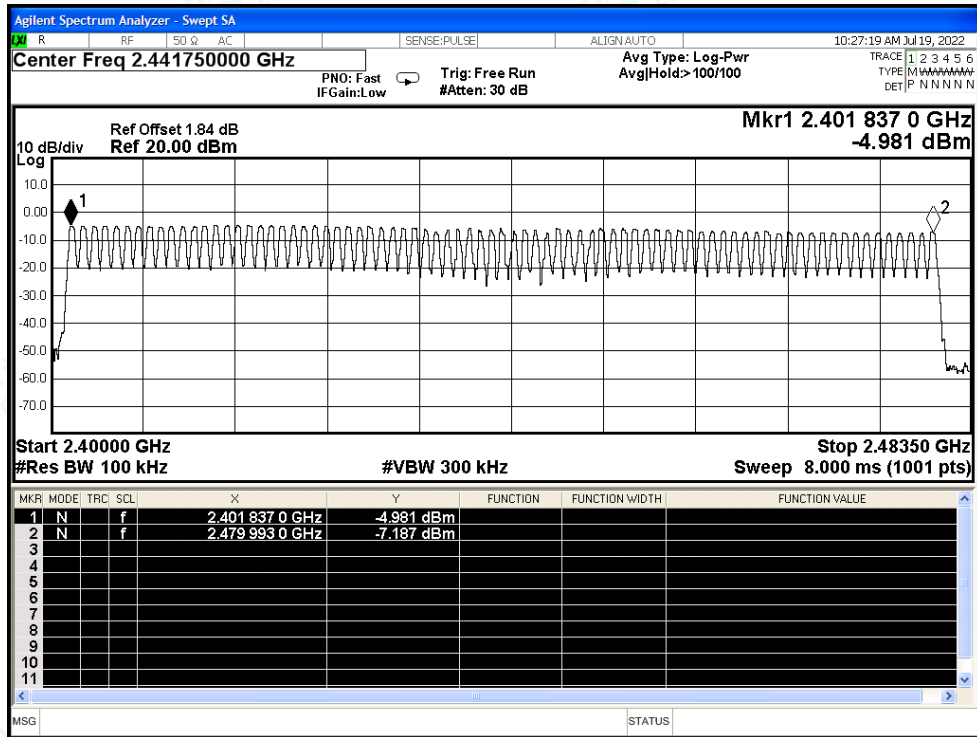
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



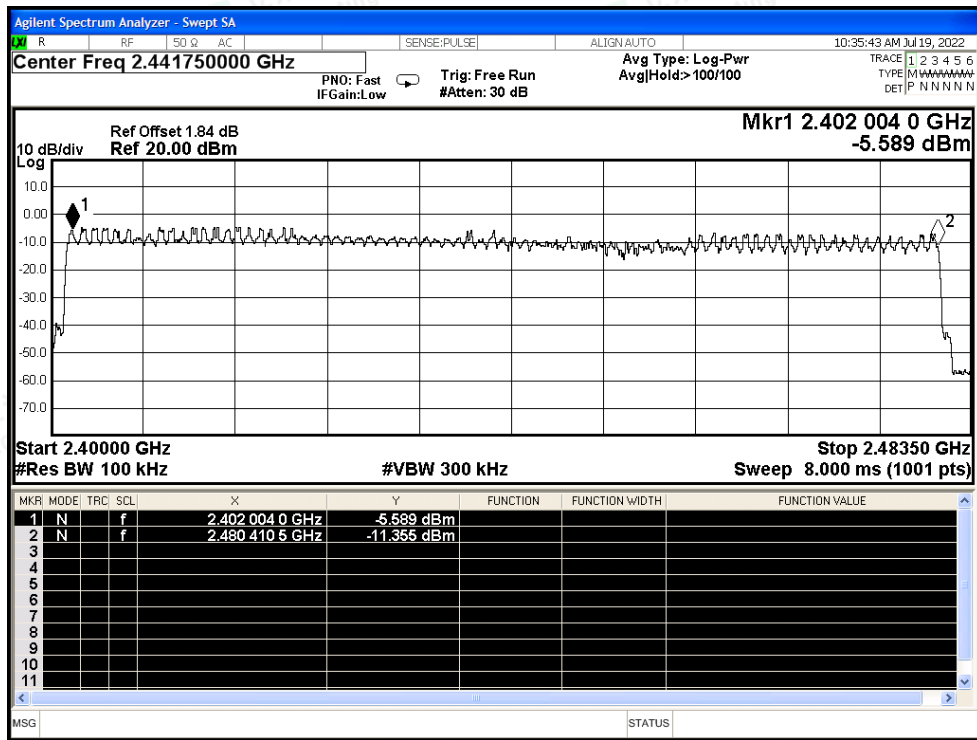


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

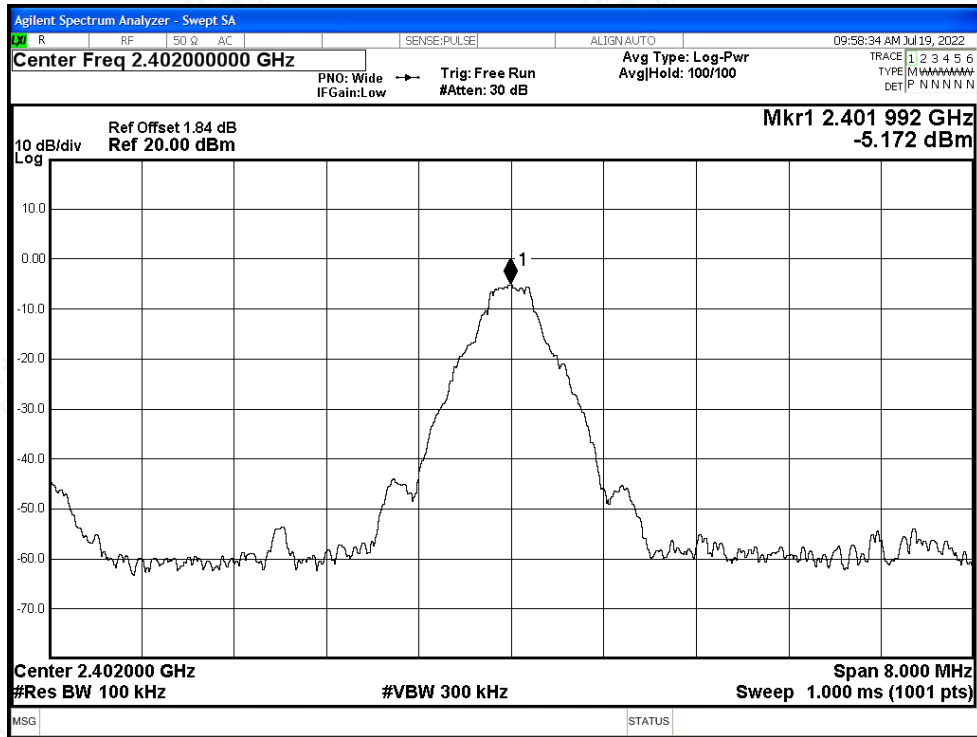
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-39.79	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-49.07	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-39.61	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-50.13	-20	Pass



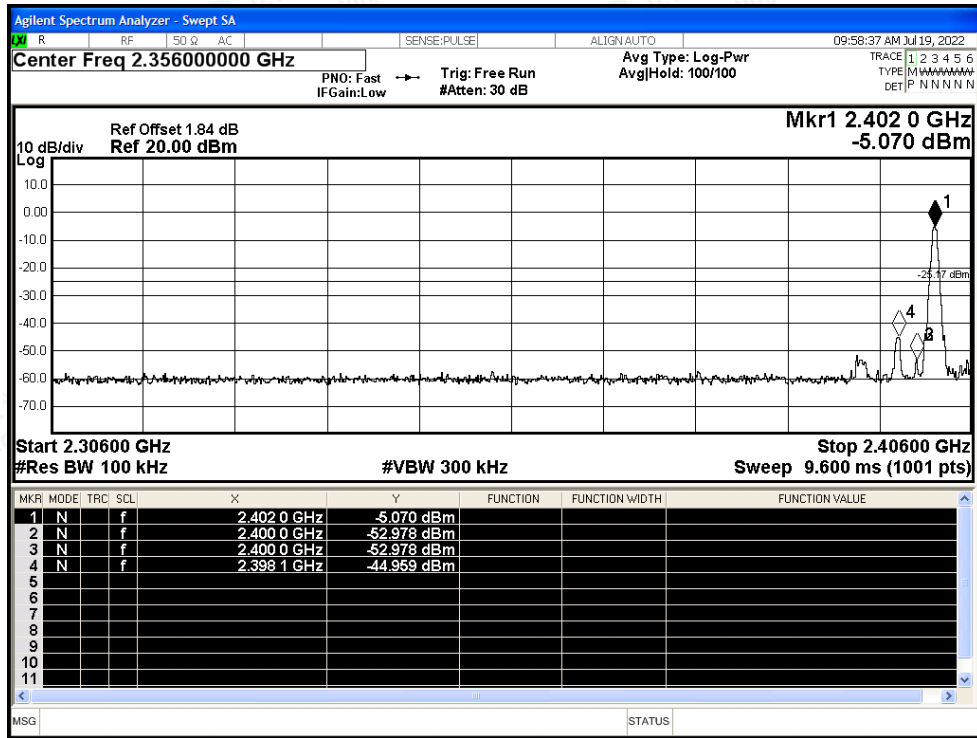


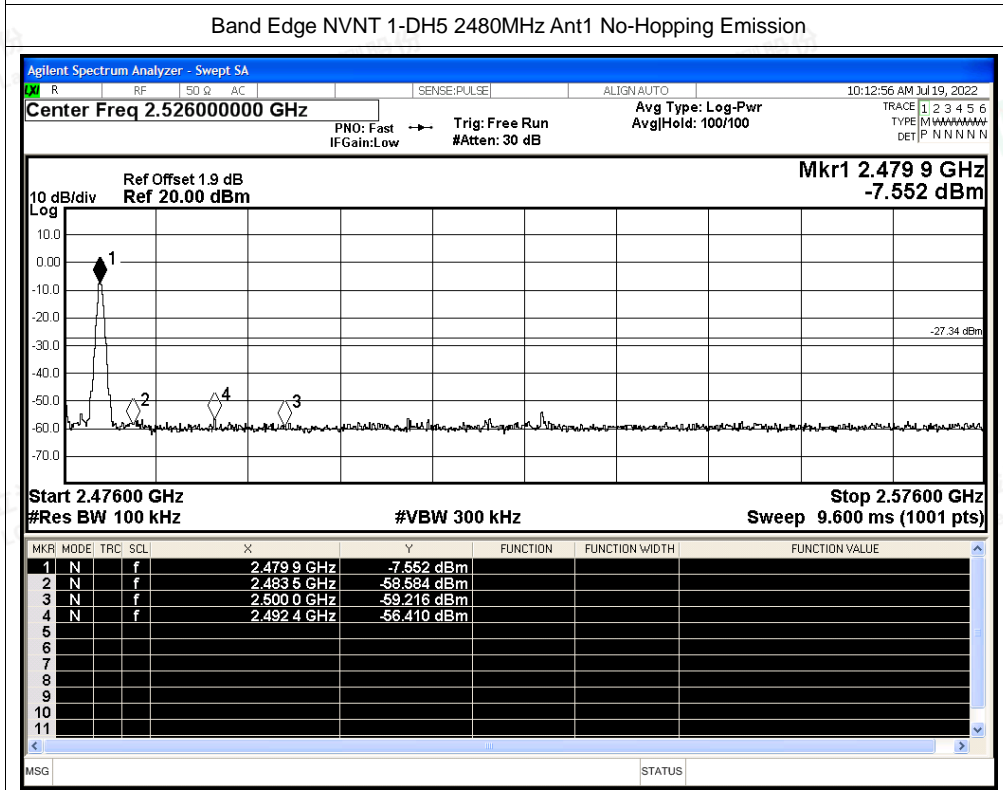
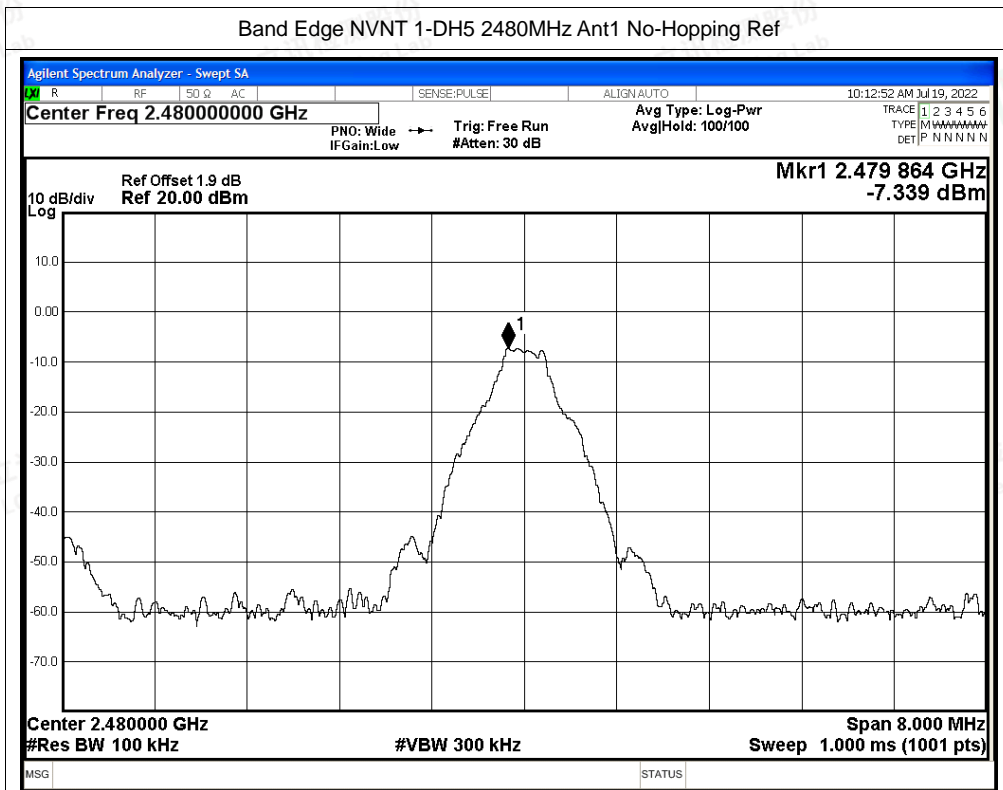
Test Graphs

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



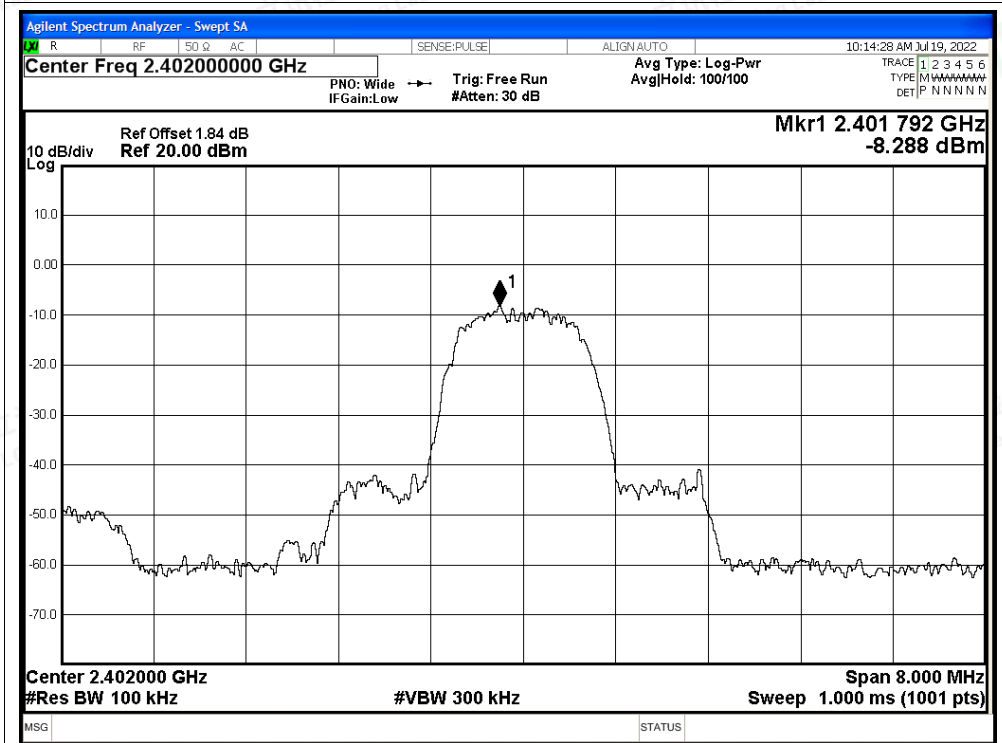
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



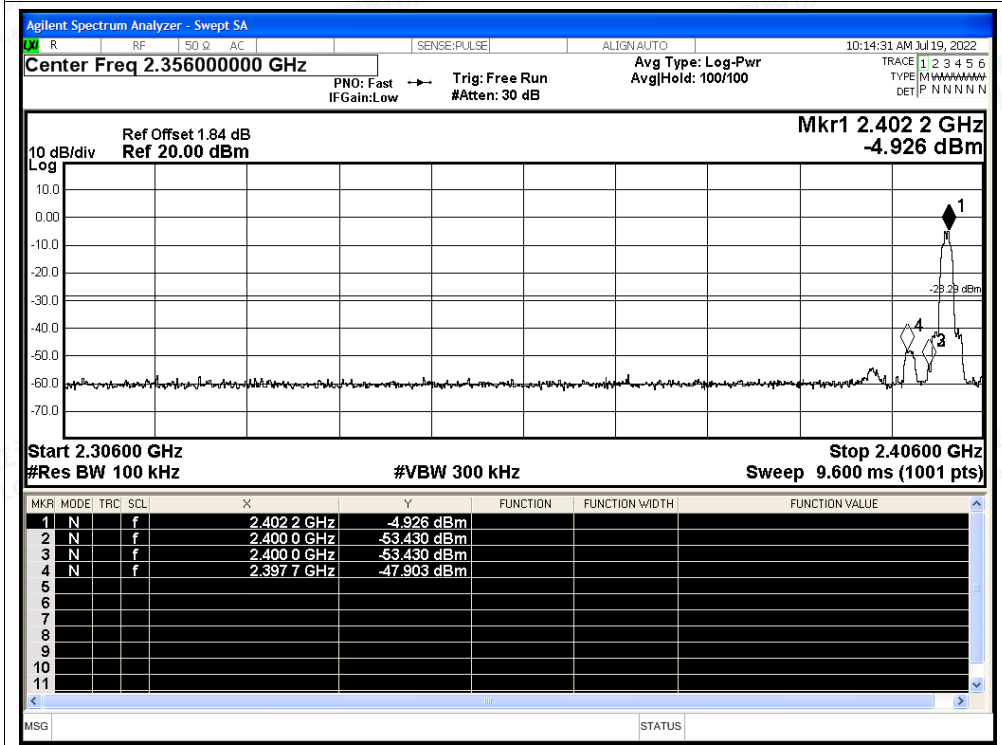




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

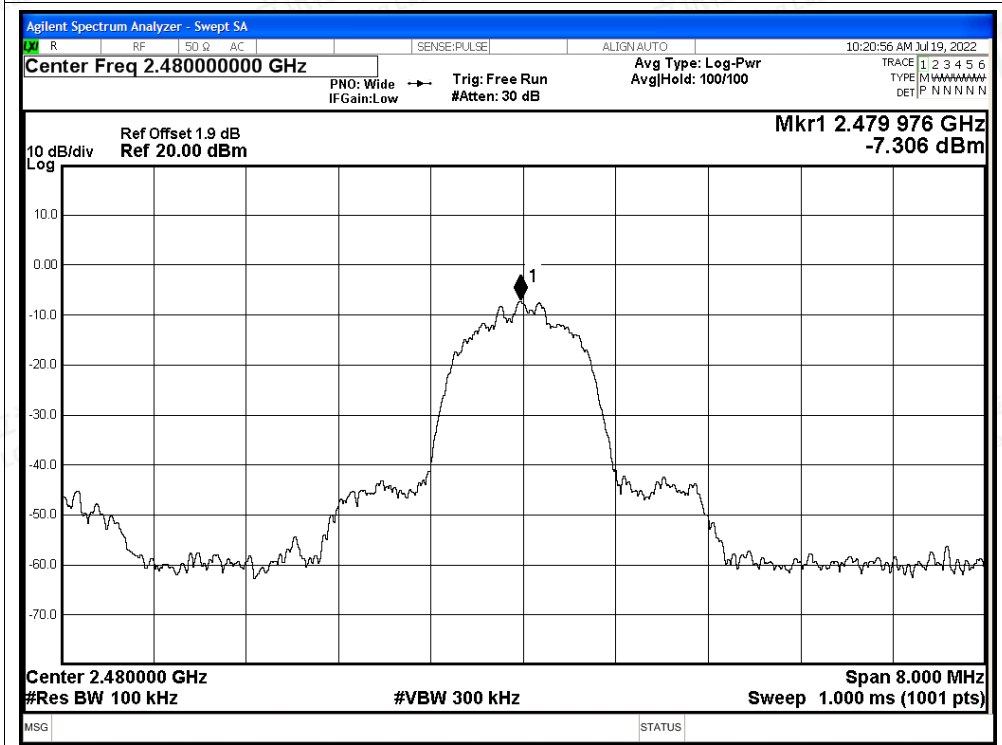


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

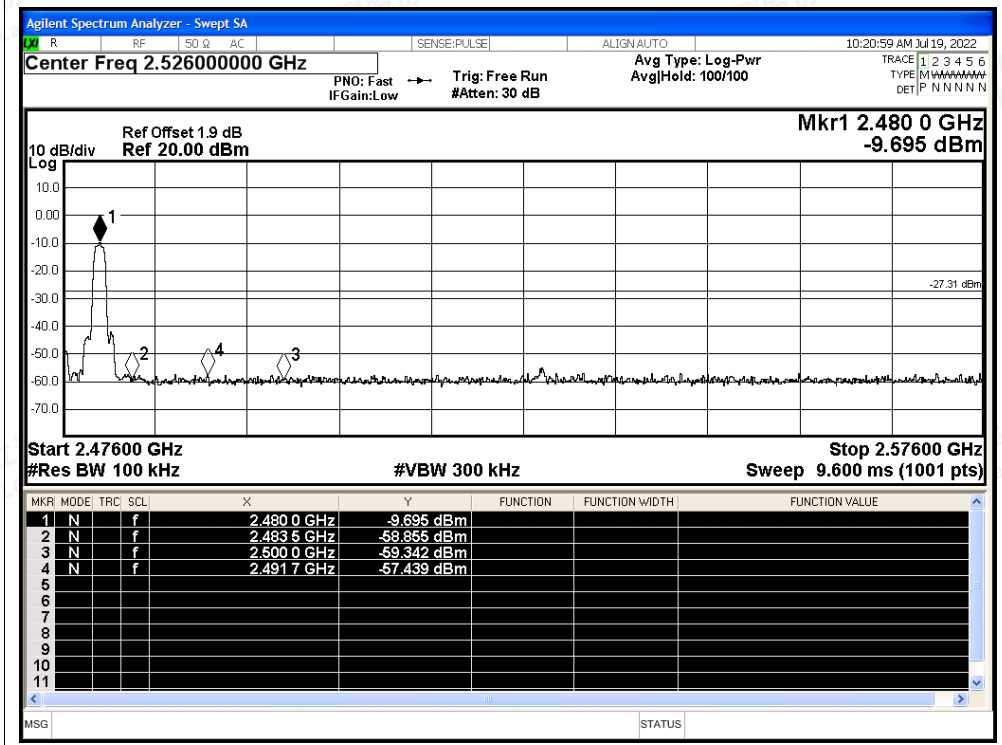




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

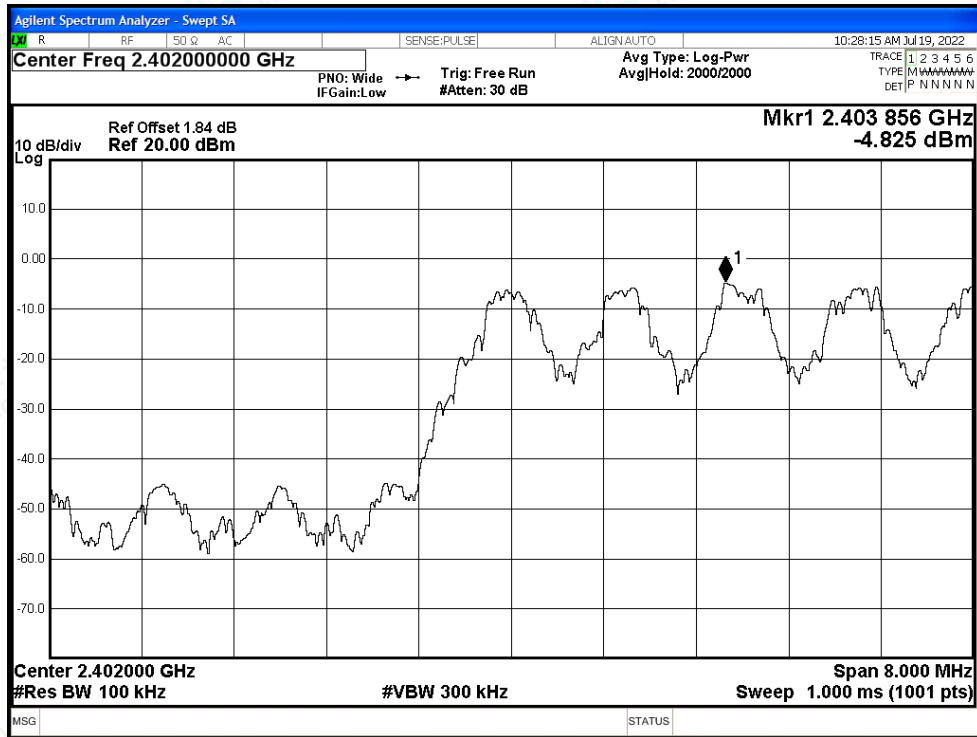
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-50.9	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-46.04	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.05	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-45.11	-20	Pass



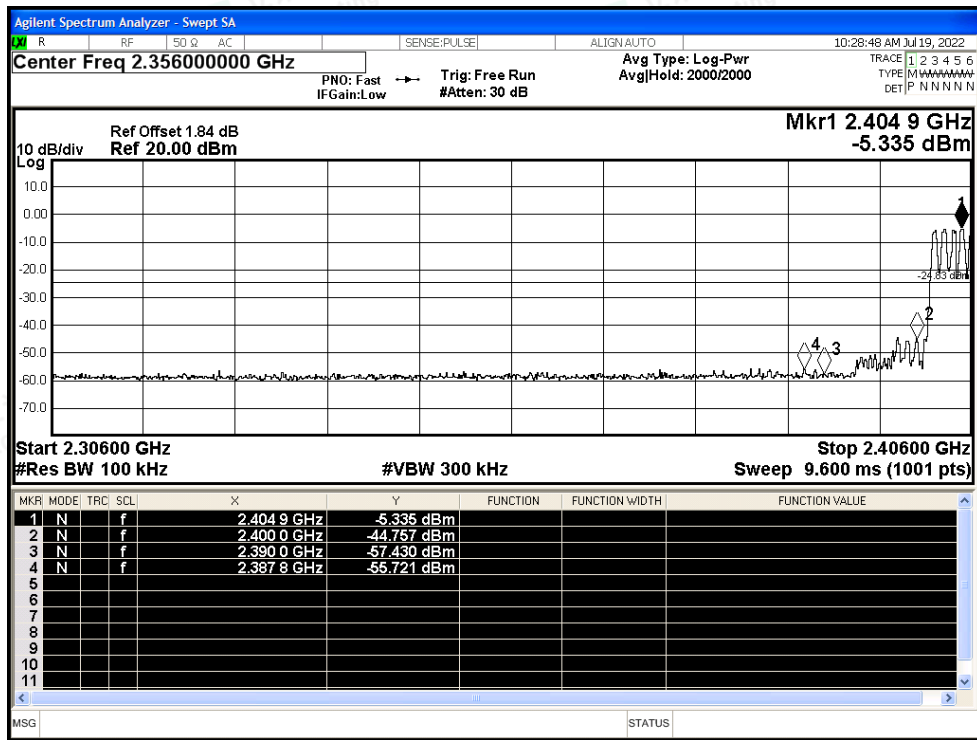


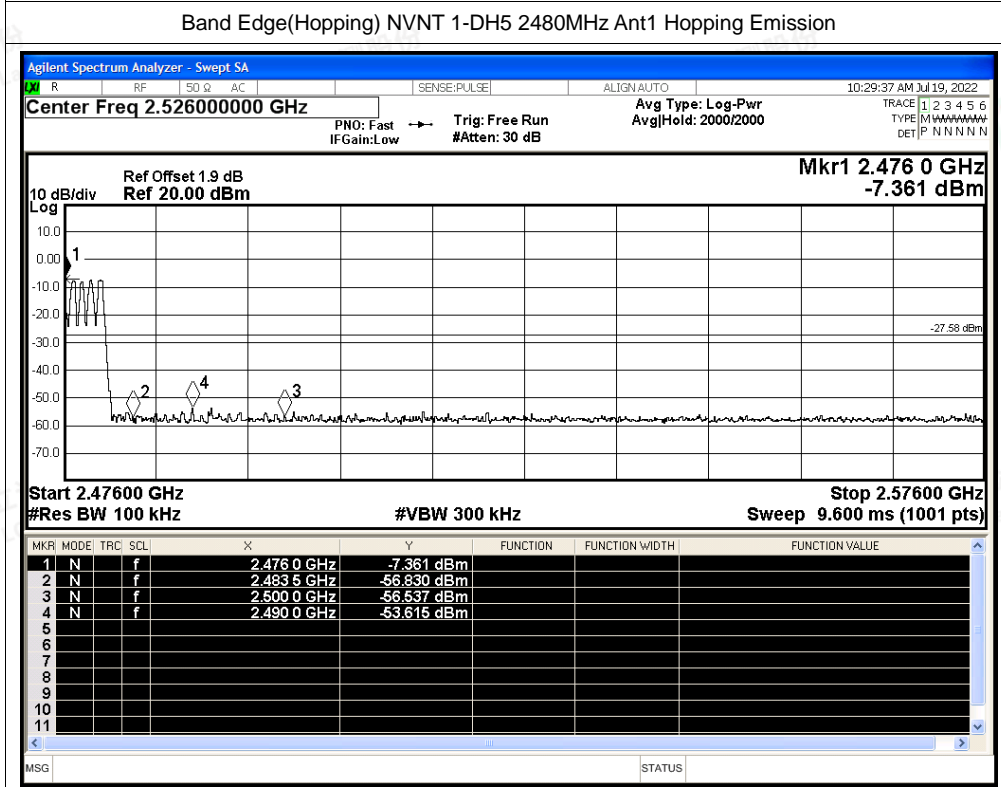
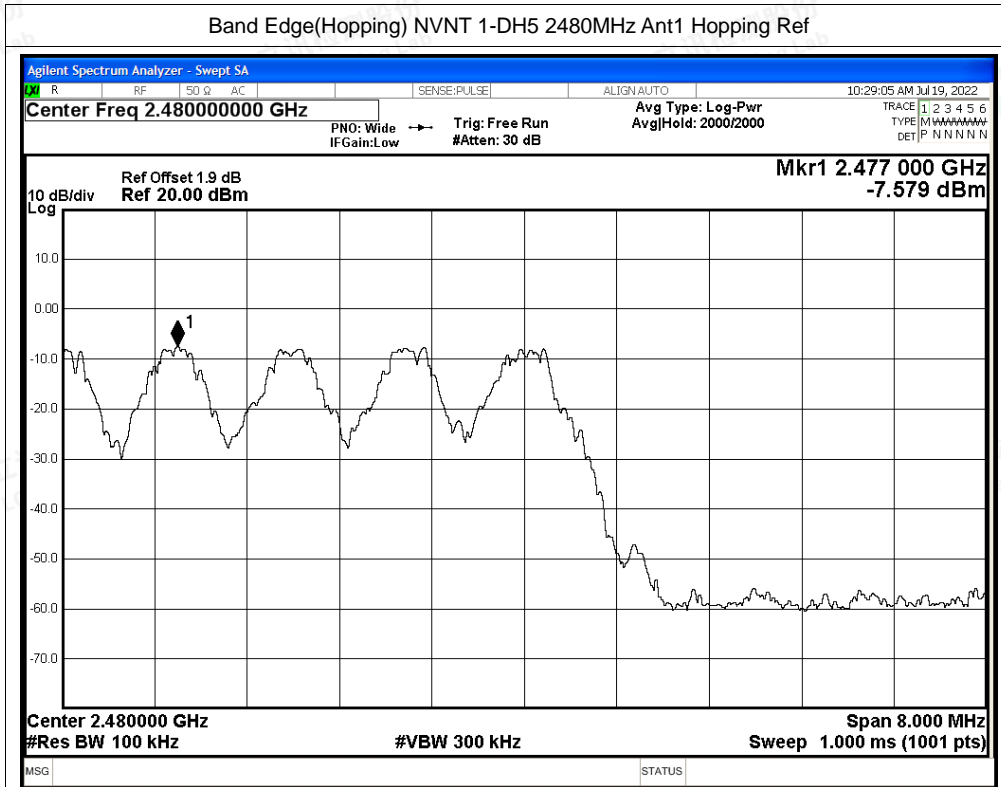
Test Graphs

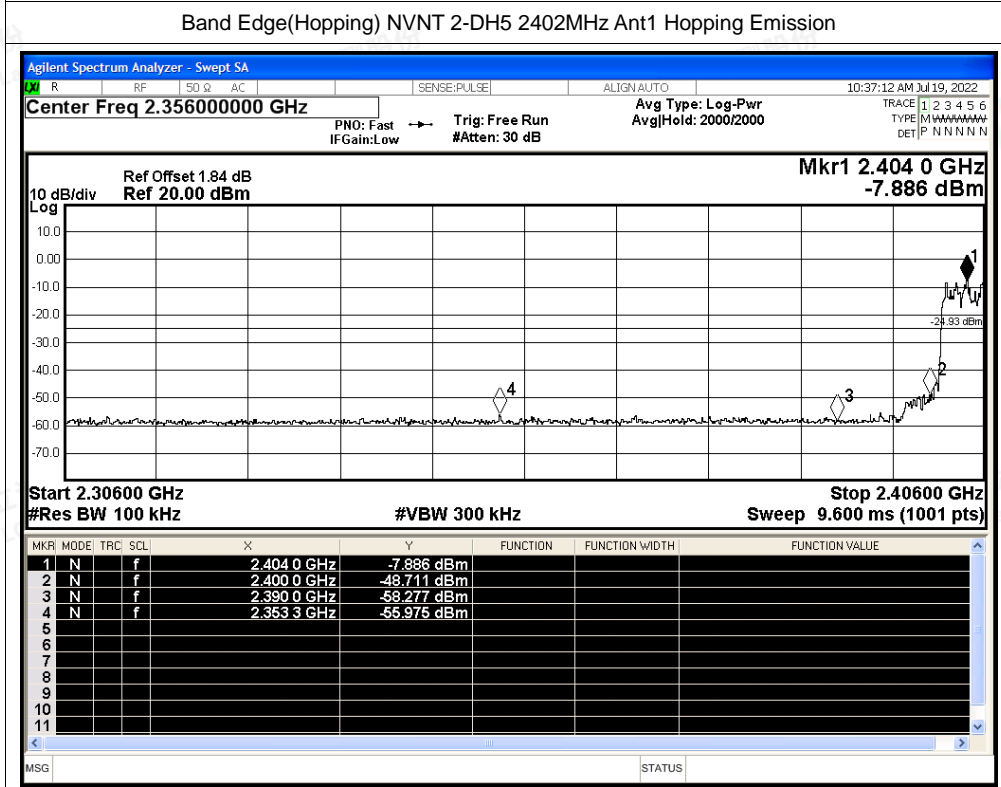
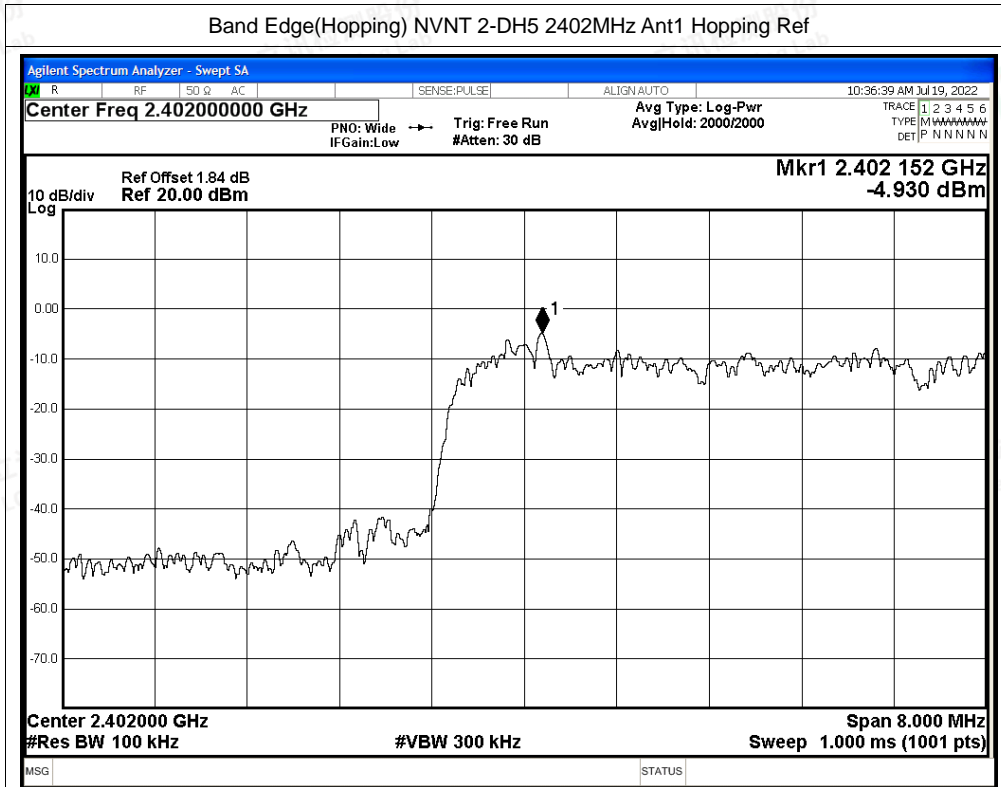
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

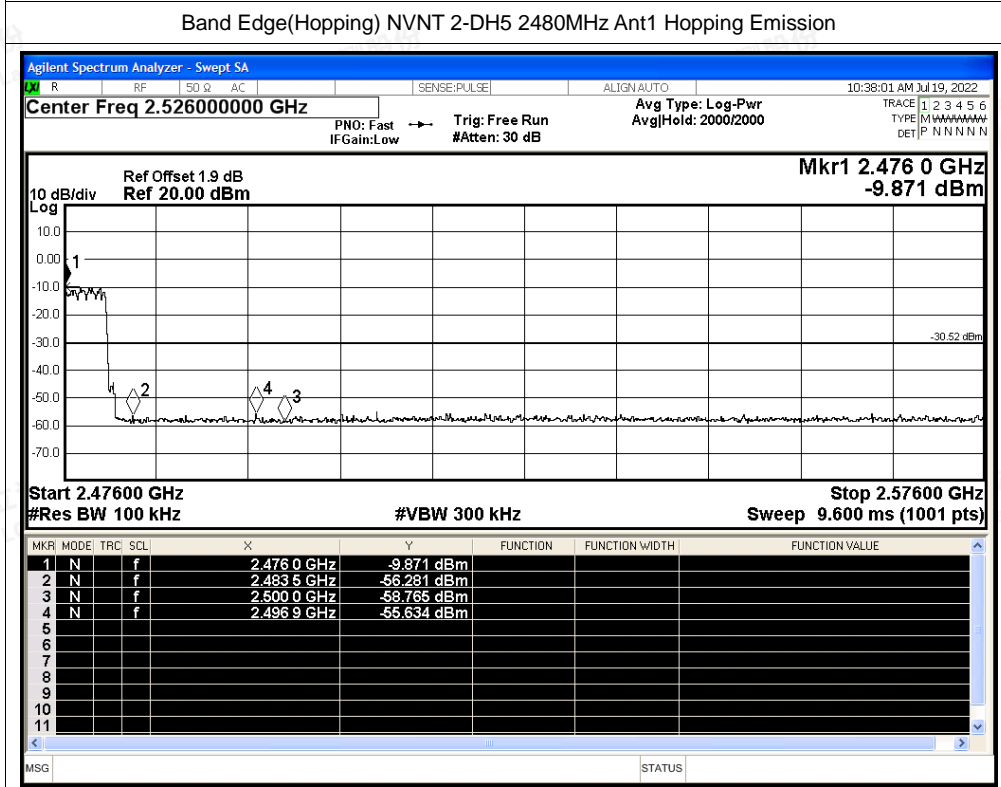
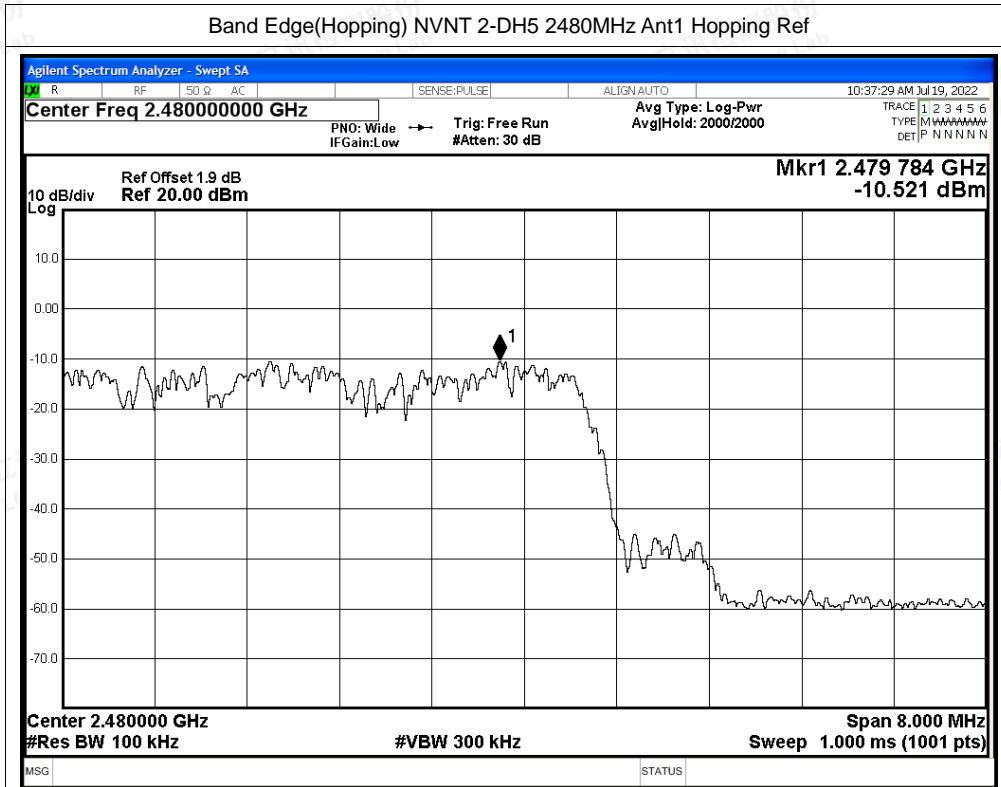


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission











A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-41.43	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.56	-20	Pass
NVNT	1-DH5	2480	Ant1	-39.07	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.6	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.23	-20	Pass
NVNT	2-DH5	2480	Ant1	-42.21	-20	Pass

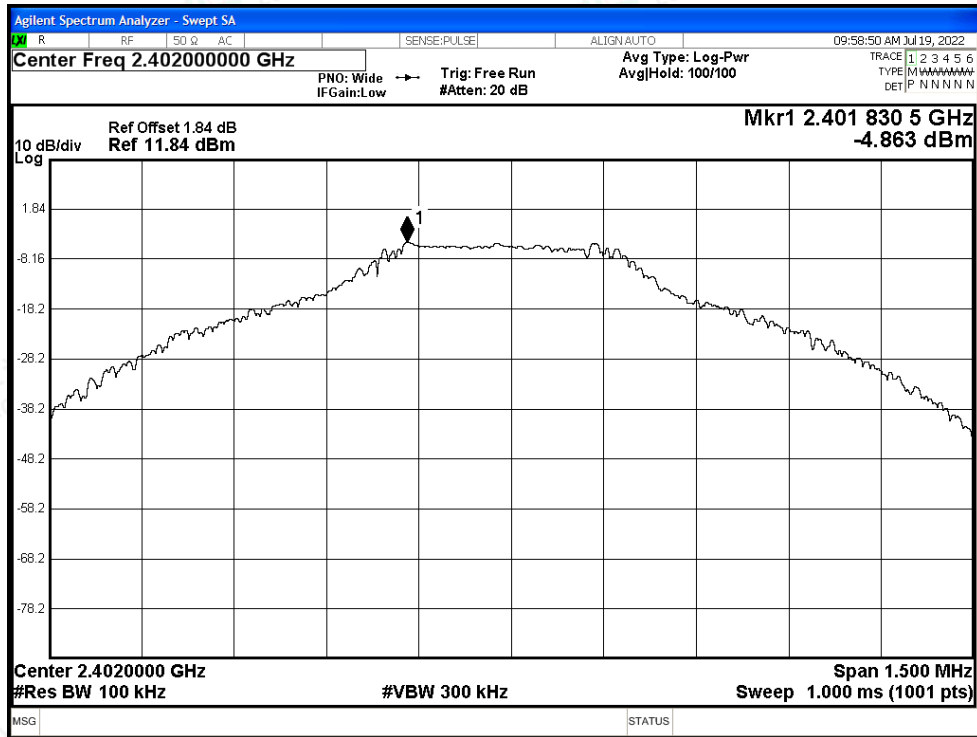


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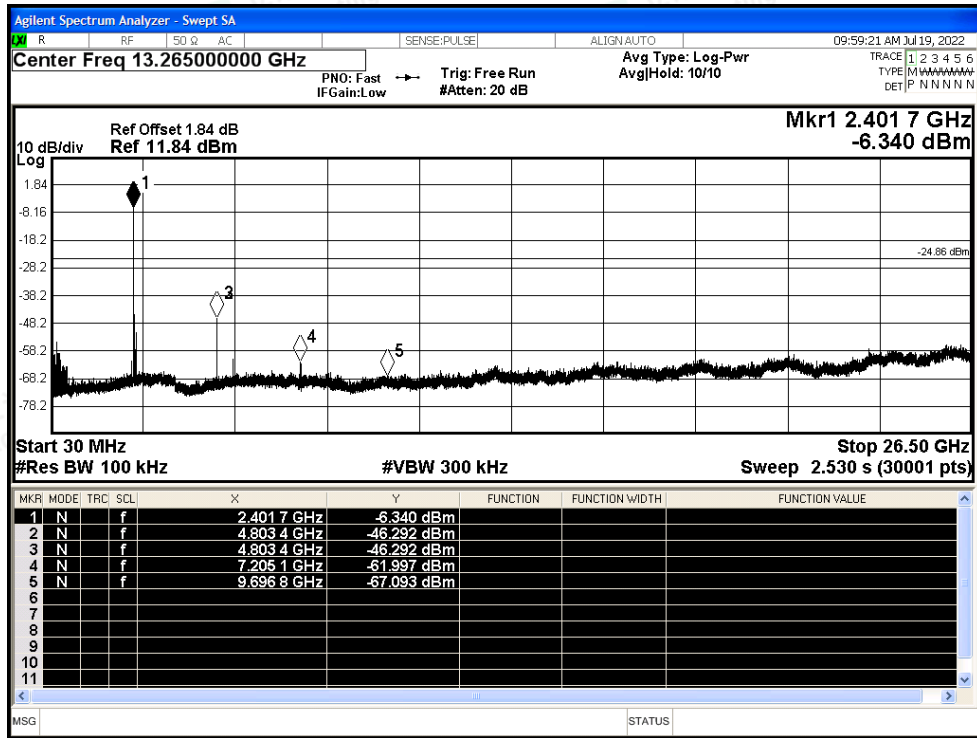


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

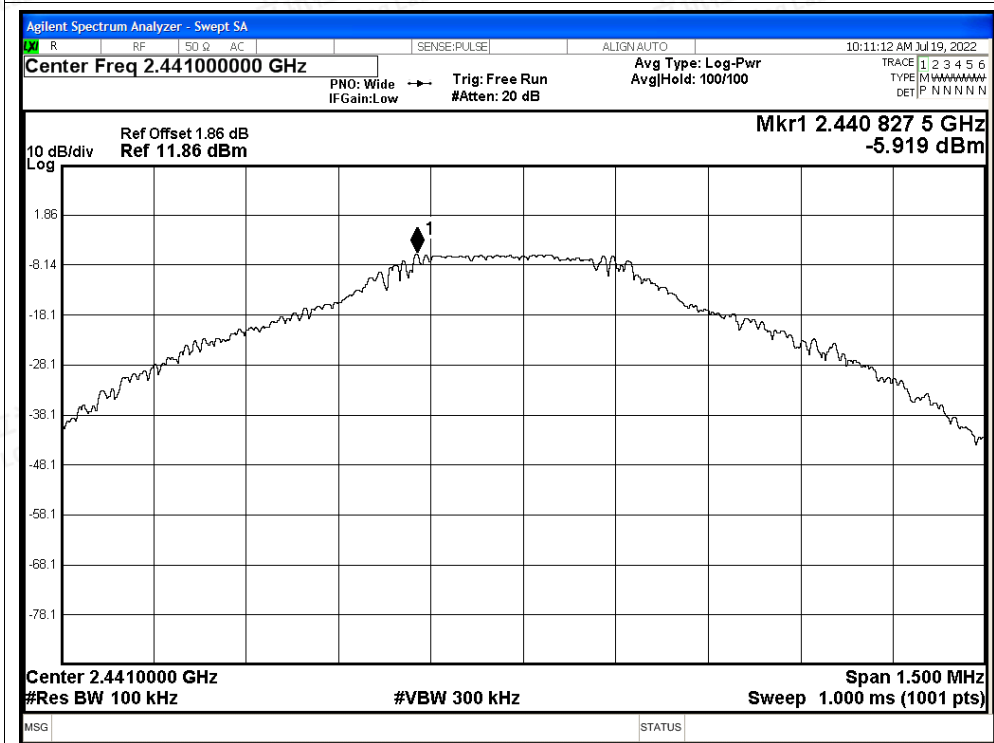


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

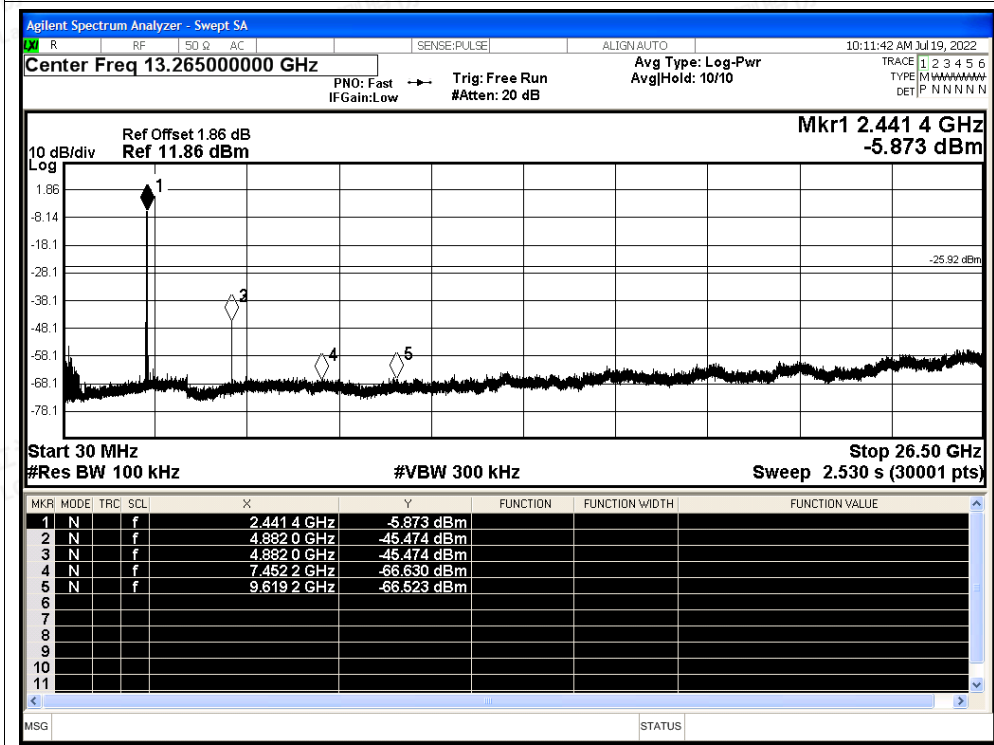




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

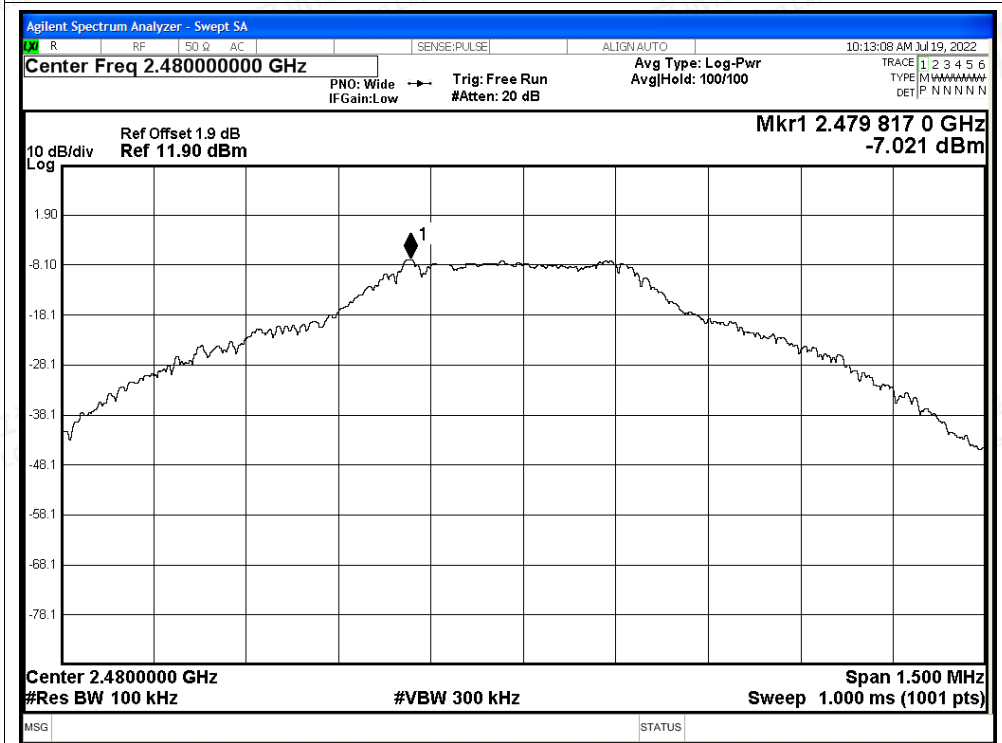


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

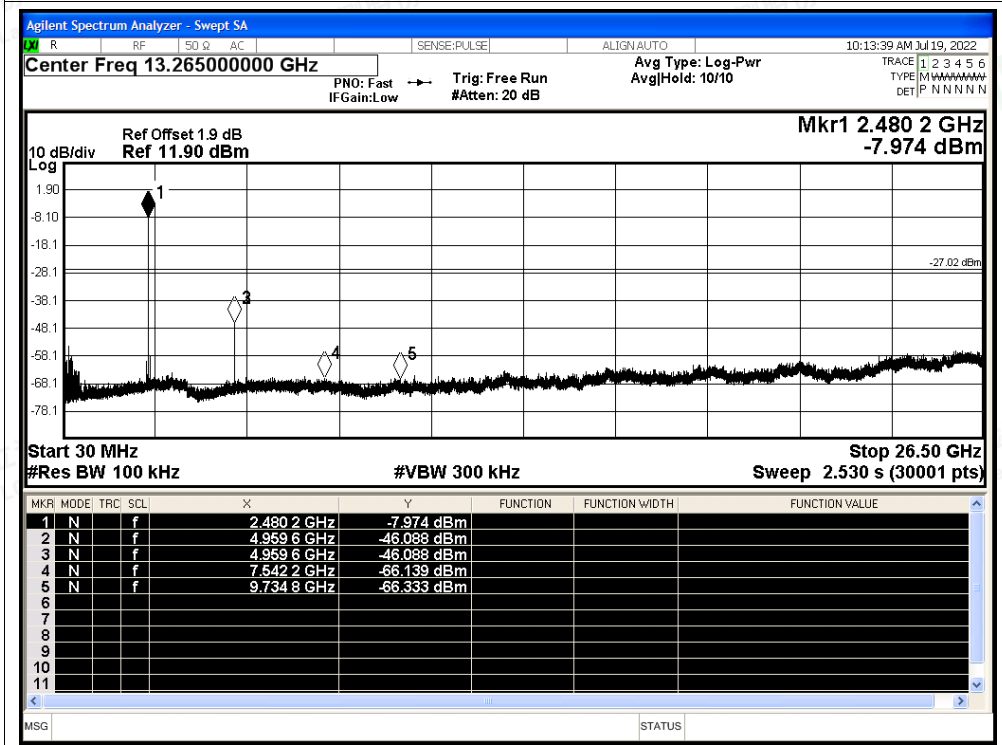




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

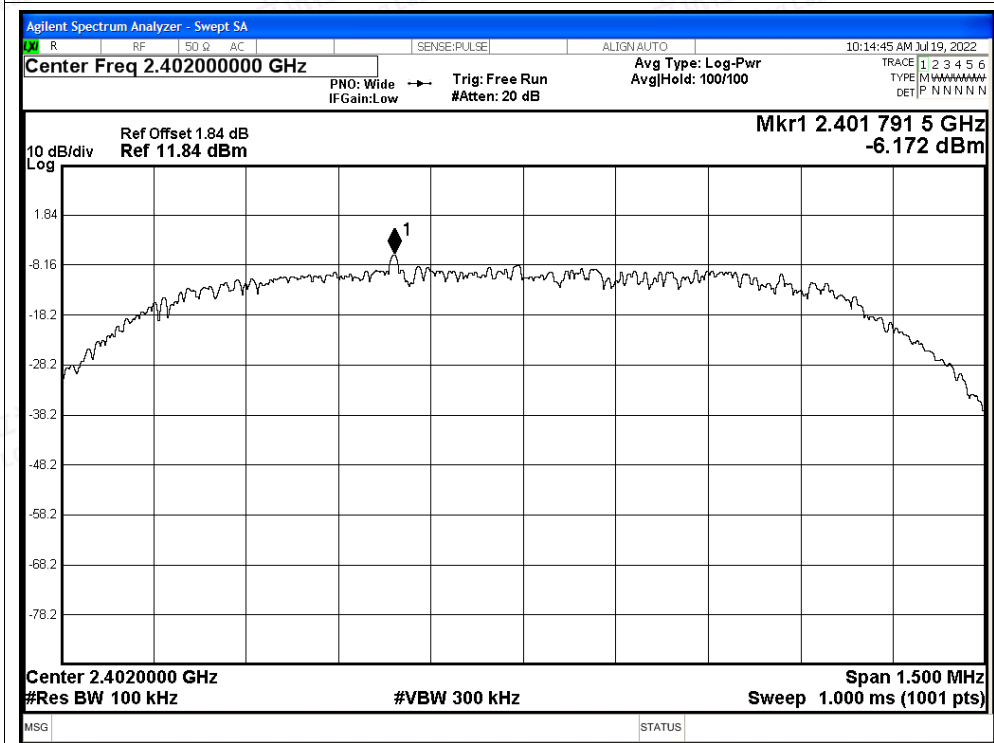


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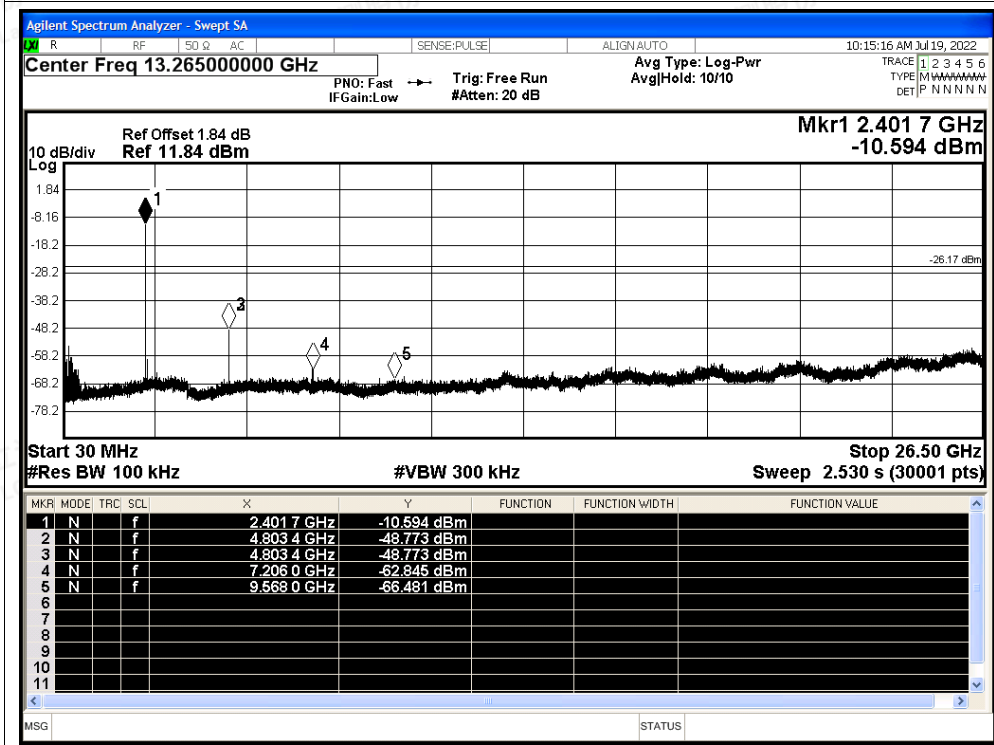




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

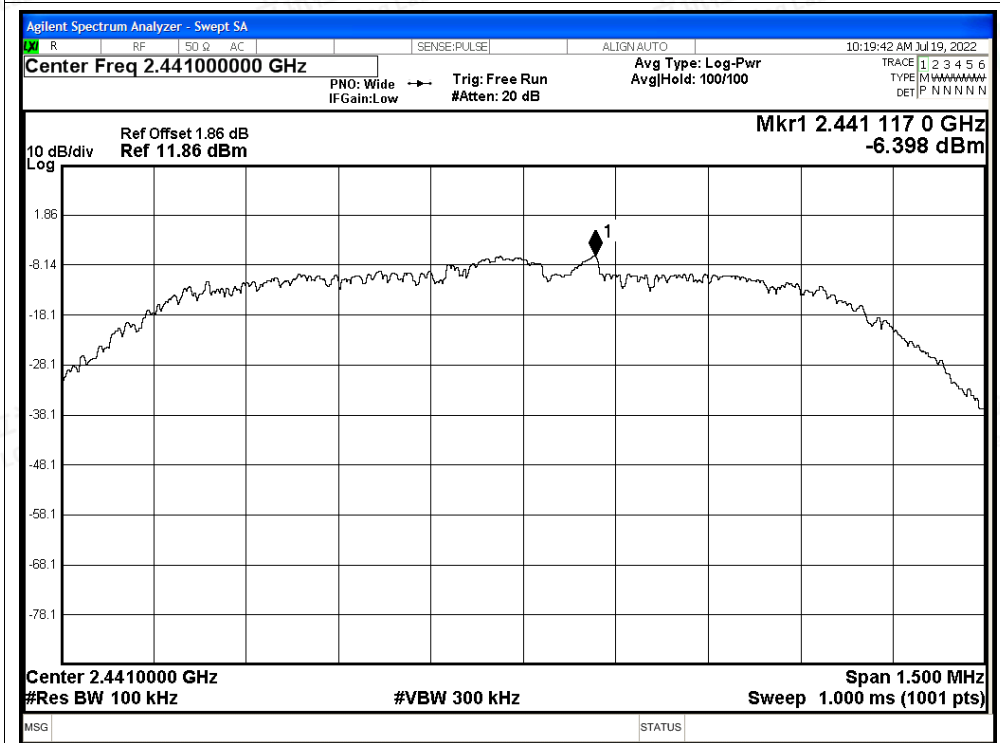


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

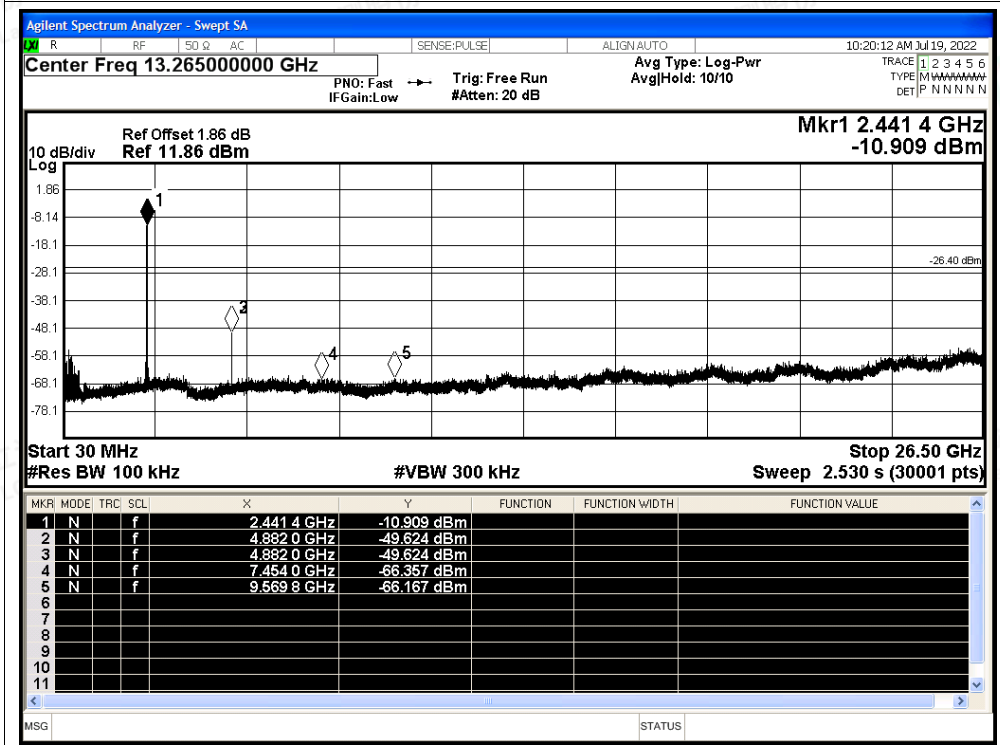




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

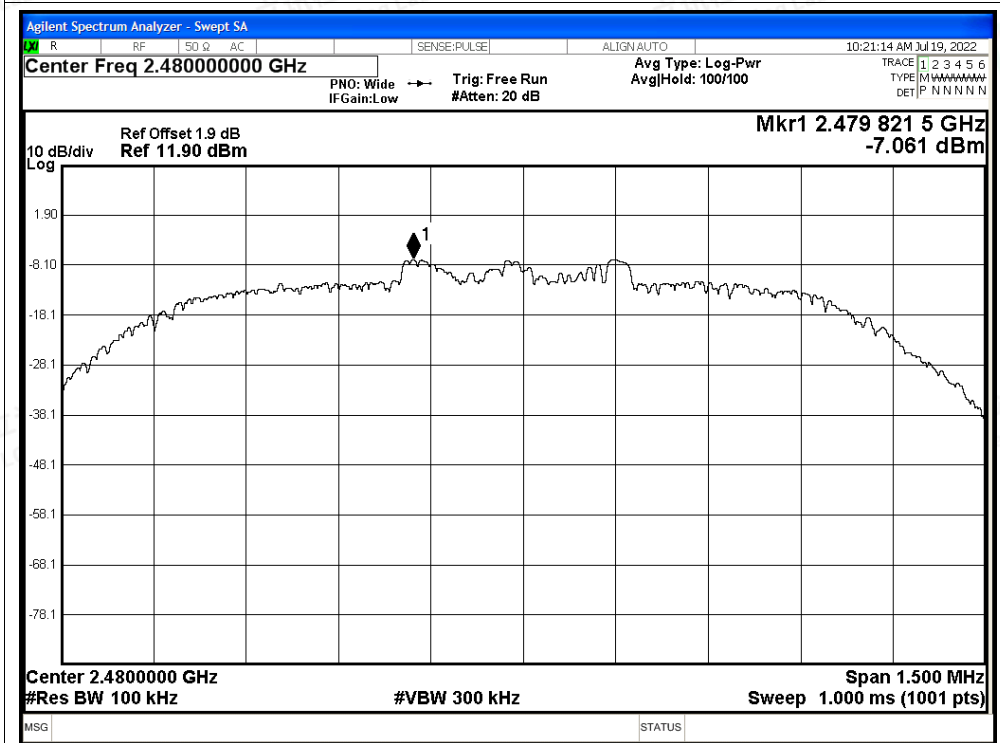


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

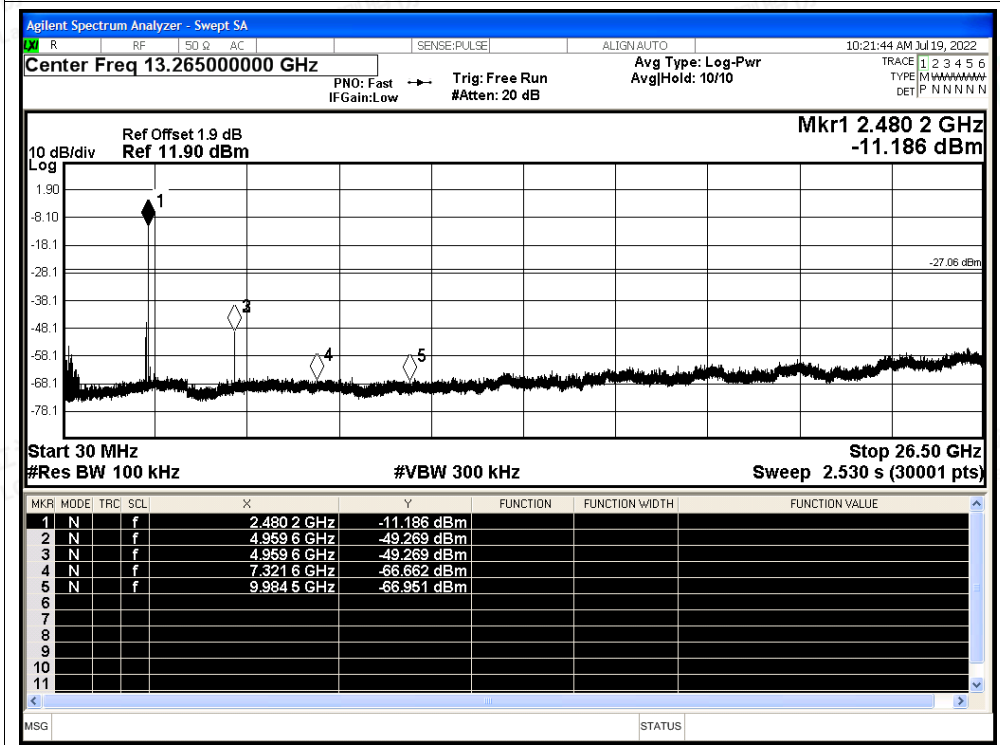




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-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	-50.46	5	49.8	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.67	5	39.59	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2362.416	-47.93	5	52.33	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2353.968	-59.25	5	41.01	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.89	5	49.37	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.46	5	39.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.58	5	50.68	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.96	5	42.3	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.04	-45.99	5	54.27	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-57.96	5	42.3	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.93	5	50.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.12	5	40.14	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.66	5	49.6	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.58	5	39.68	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2346.192	-48.36	5	51.9	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2354.16	-59.74	5	40.52	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.94	5	48.32	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.45	5	39.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.38	5	50.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.7	5	40.56	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.888	-46.78	5	53.48	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.424	-59.27	5	40.99	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.64	5	49.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.09	5	40.17	Average	54	Pass

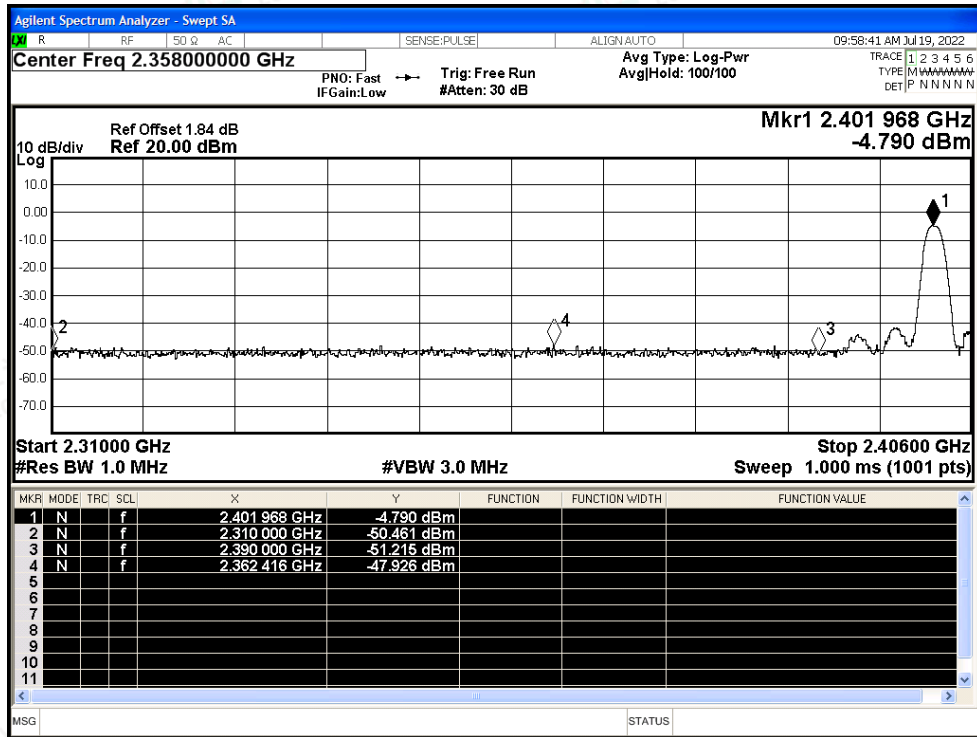


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 Scan code to check authenticity

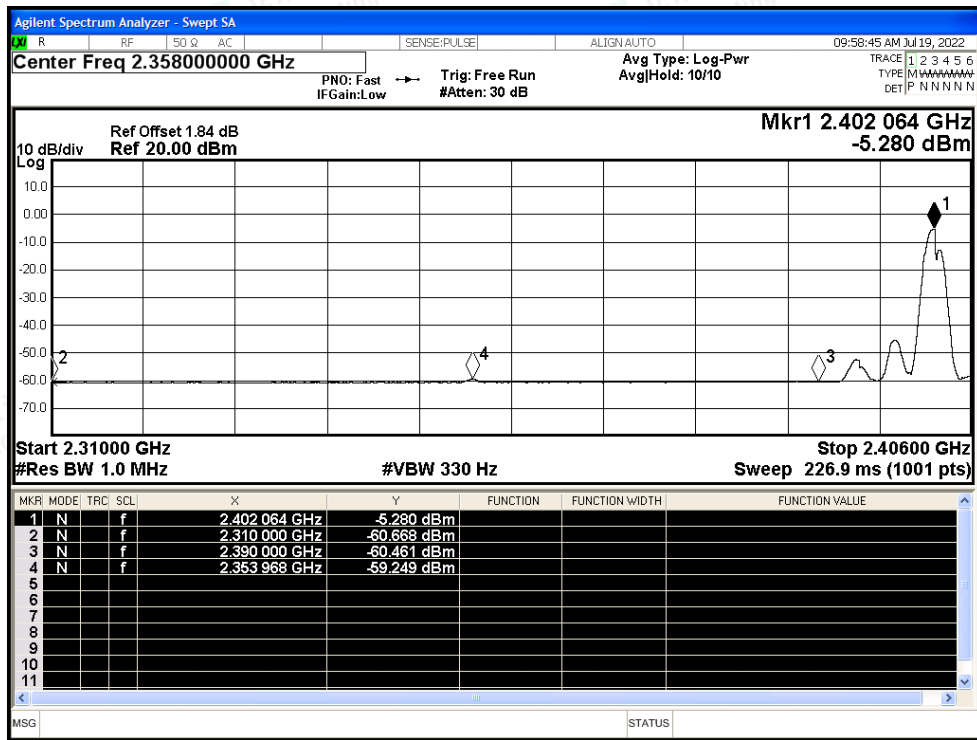


Test Graphs

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

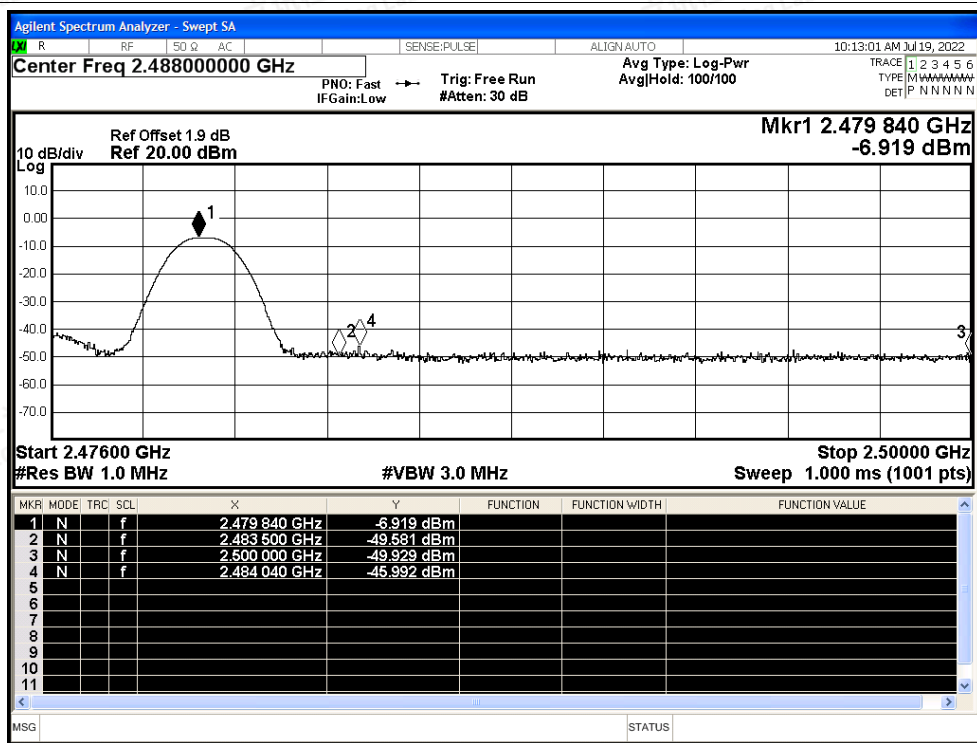


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

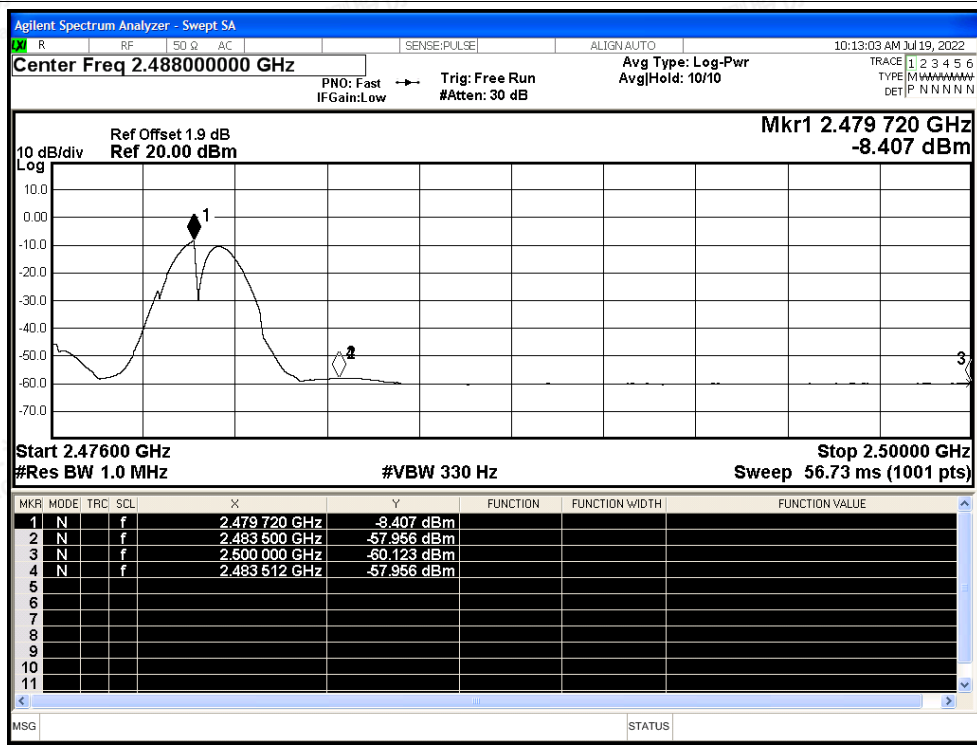




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

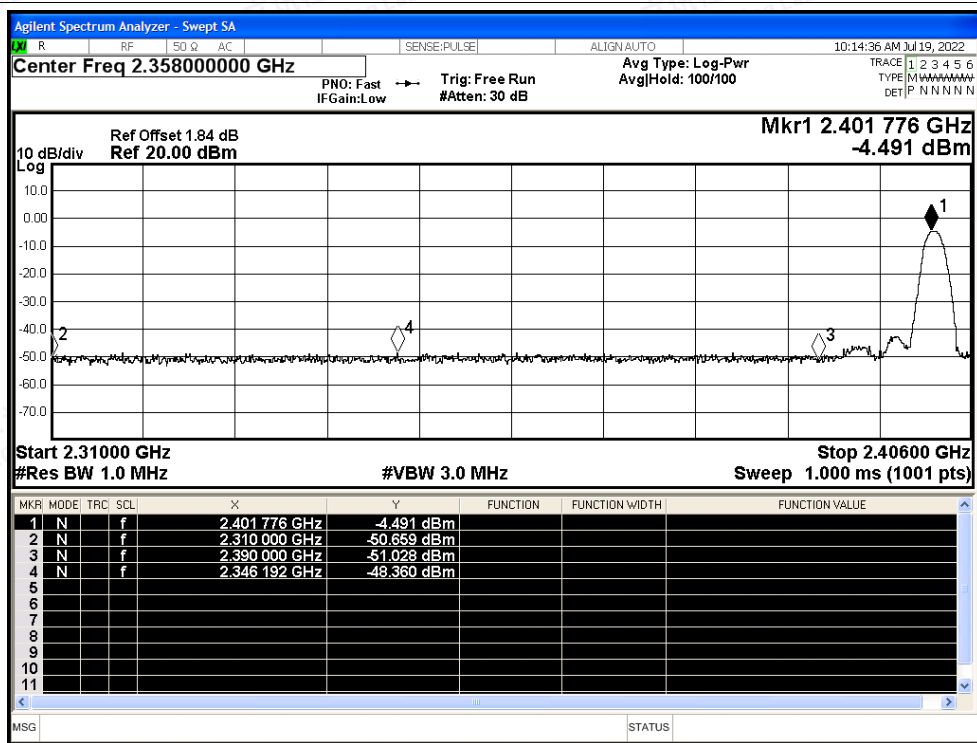


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

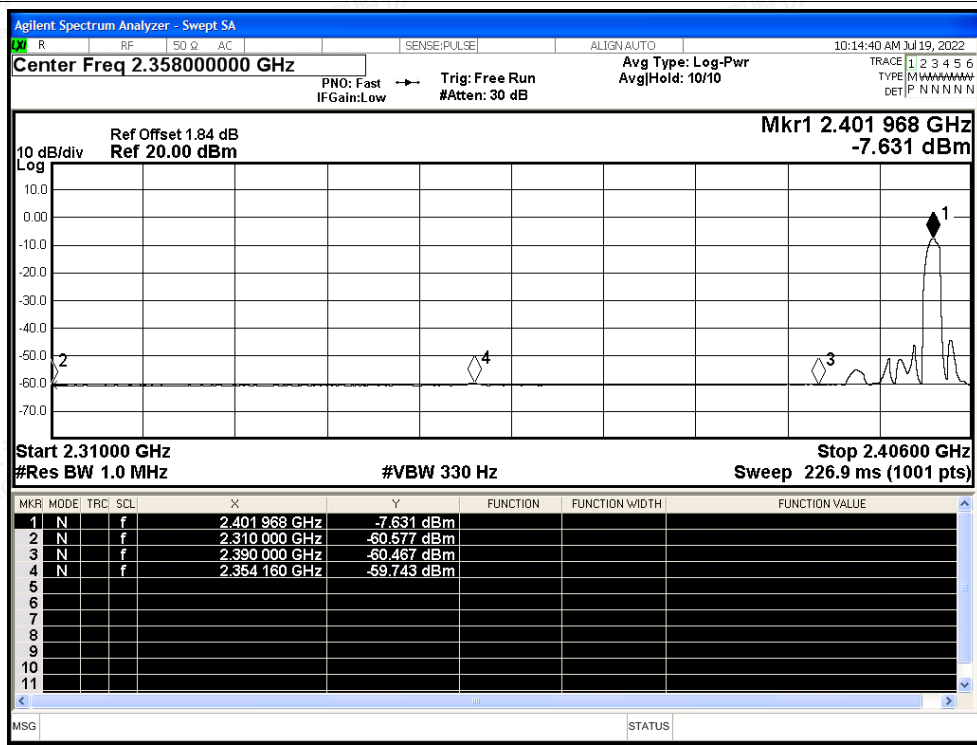




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

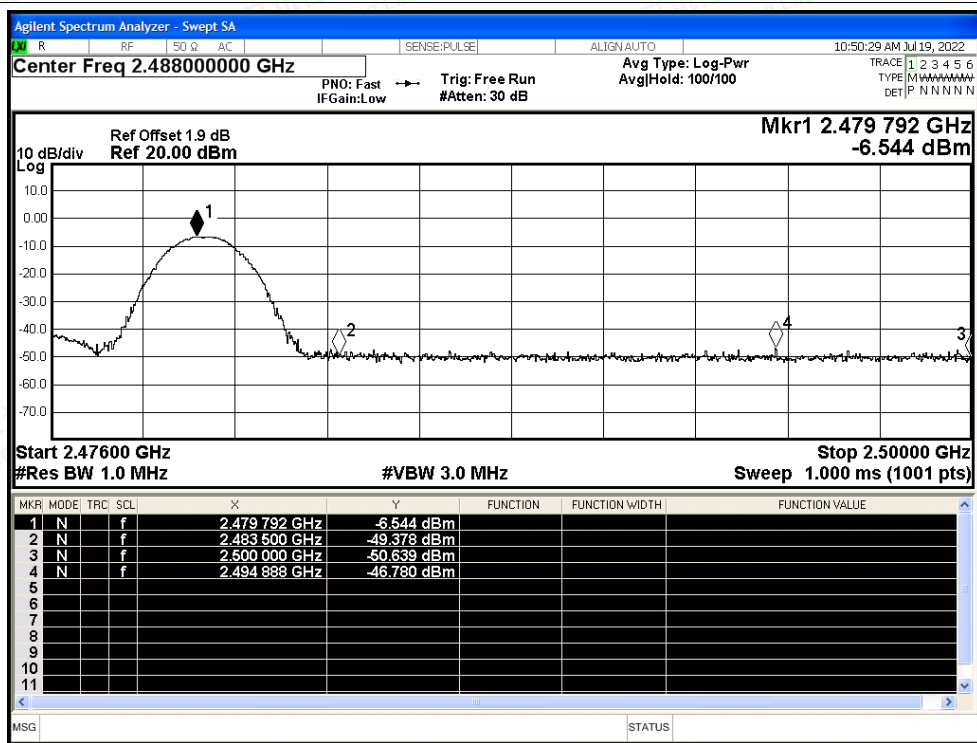


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

