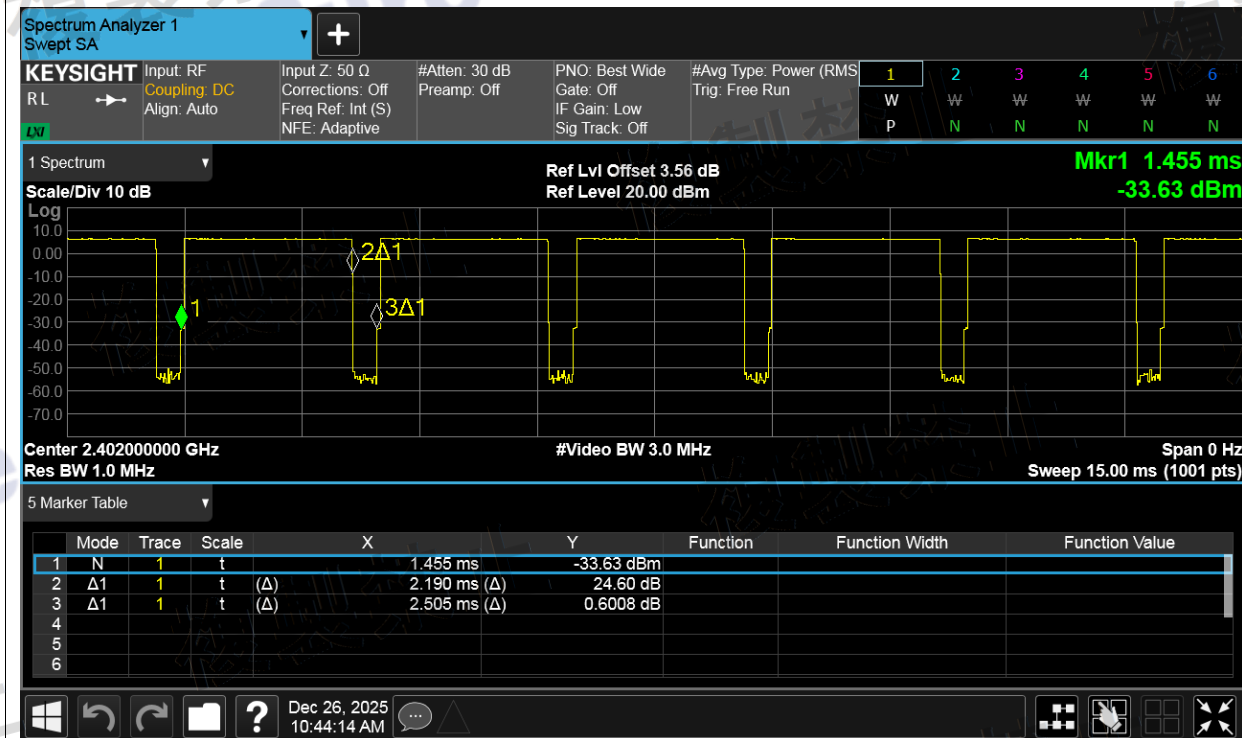


Duty Cycle

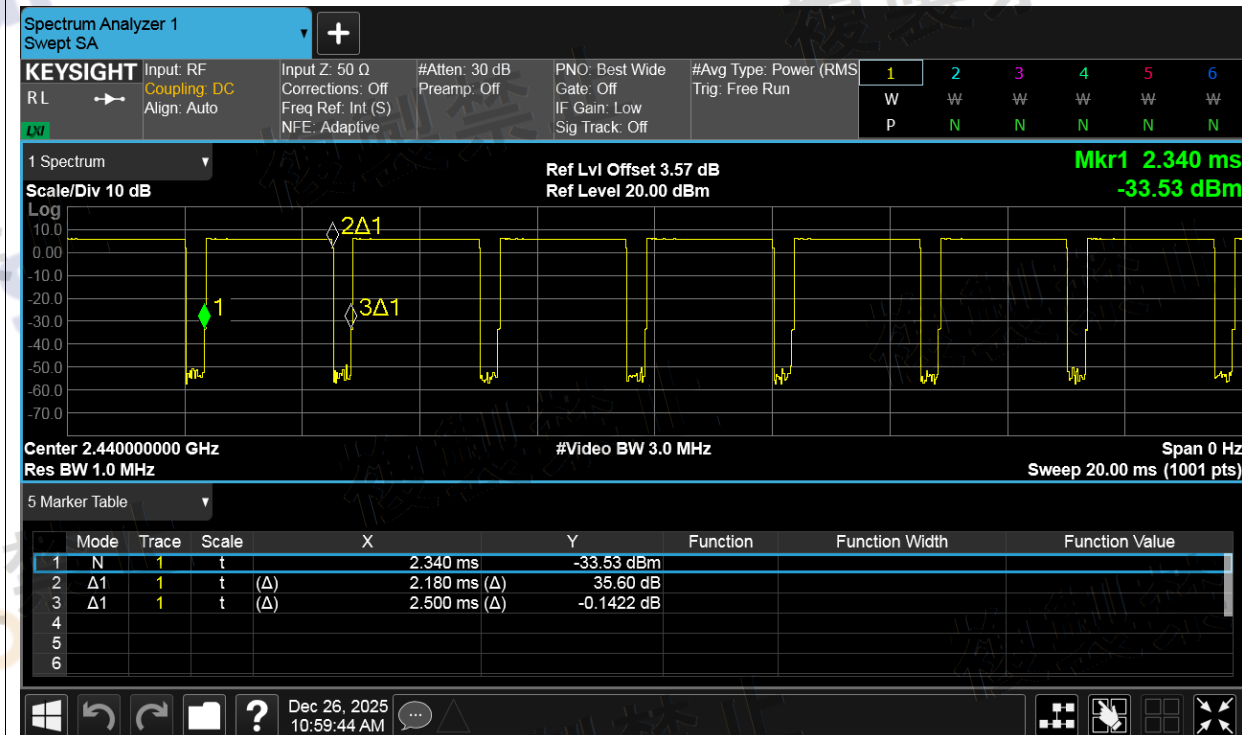
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	Burst Length (ms)
NVNT	BLE 1M	2402	Ant1	87.43	0.58	2.19
NVNT	BLE 1M	2440	Ant1	87.2	0.59	2.18
NVNT	BLE 1M	2480	Ant1	86.4	0.63	2.16
NVNT	BLE 2M	2402	Ant1	60.8	2.16	1.14
NVNT	BLE 2M	2440	Ant1	60	2.22	1.125
NVNT	BLE 2M	2480	Ant1	60.8	2.16	1.14

Test Graphs

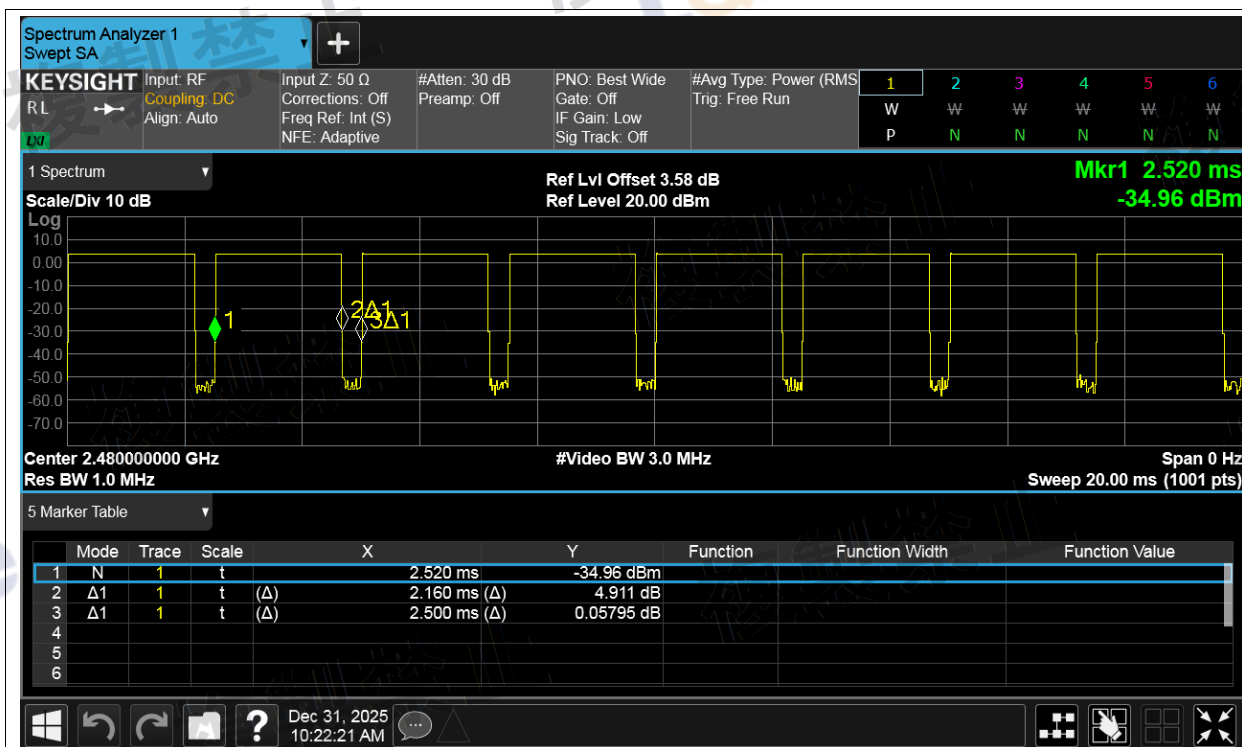
Duty Cycle NVNT BLE 1M 2402MHz Ant1



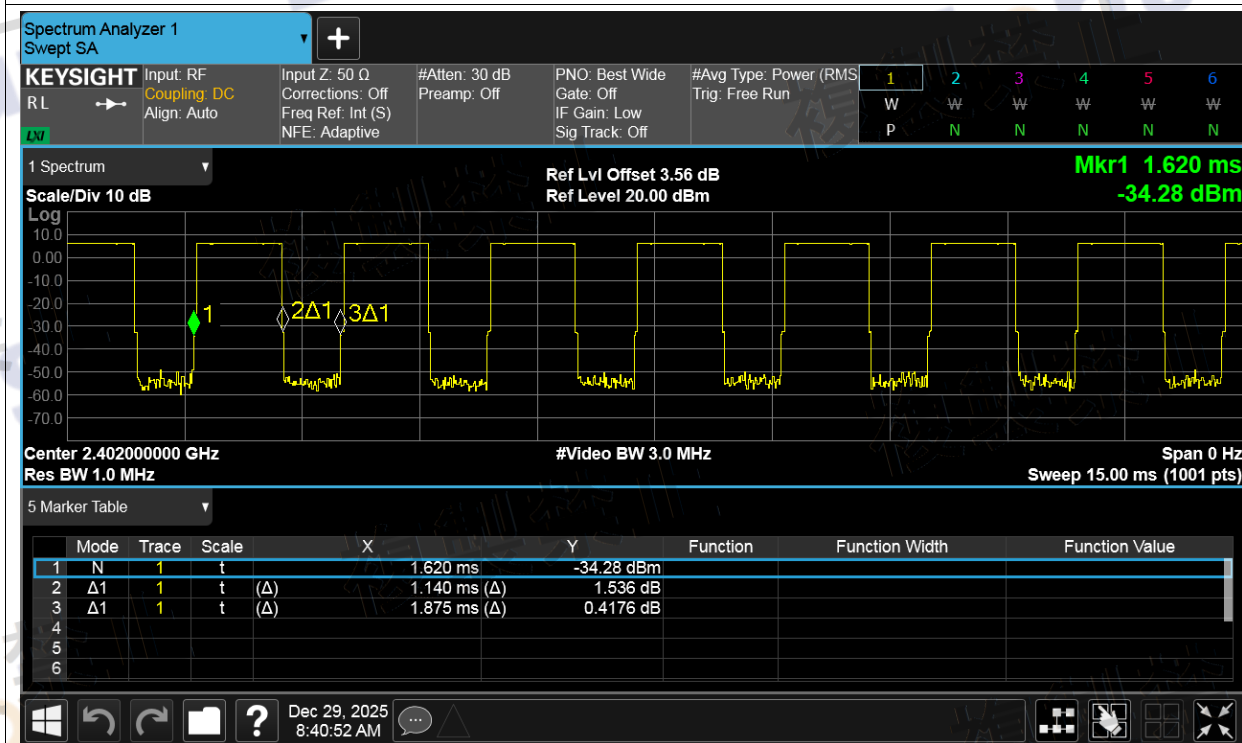
Duty Cycle NVNT BLE 1M 2440MHz Ant1



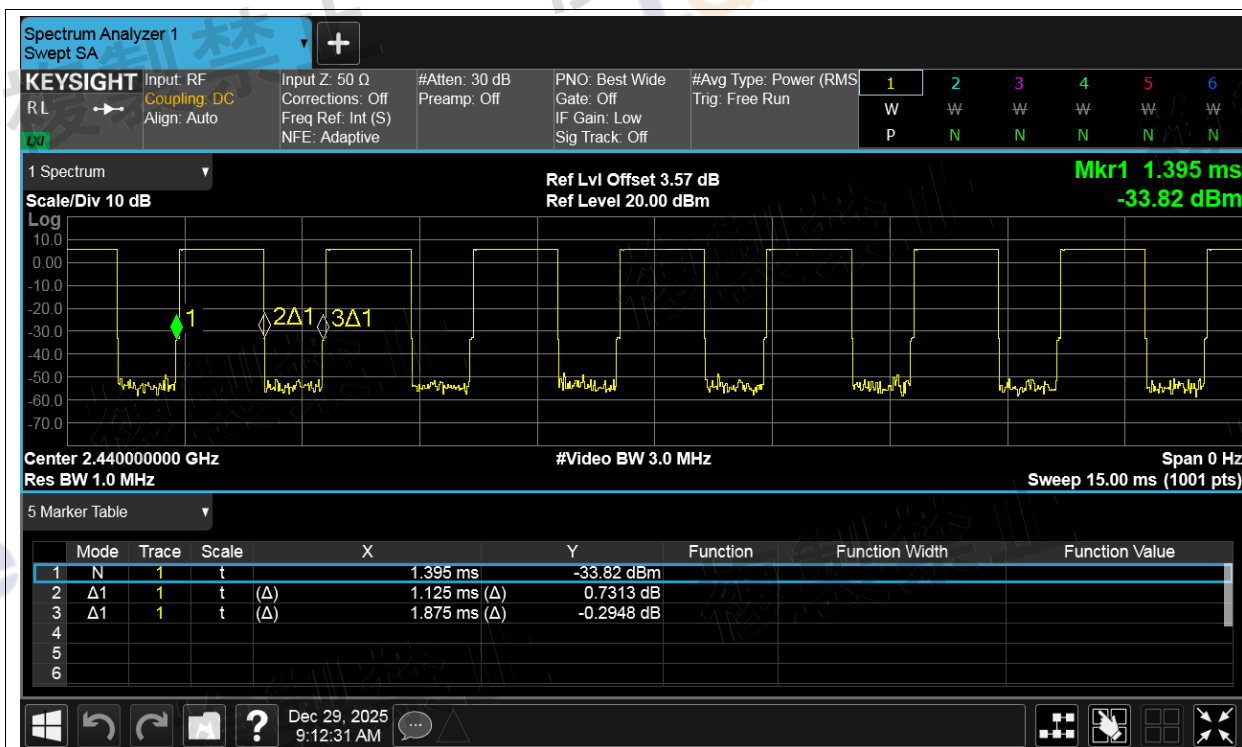
Duty Cycle NVNT BLE 1M 2480MHz Ant1



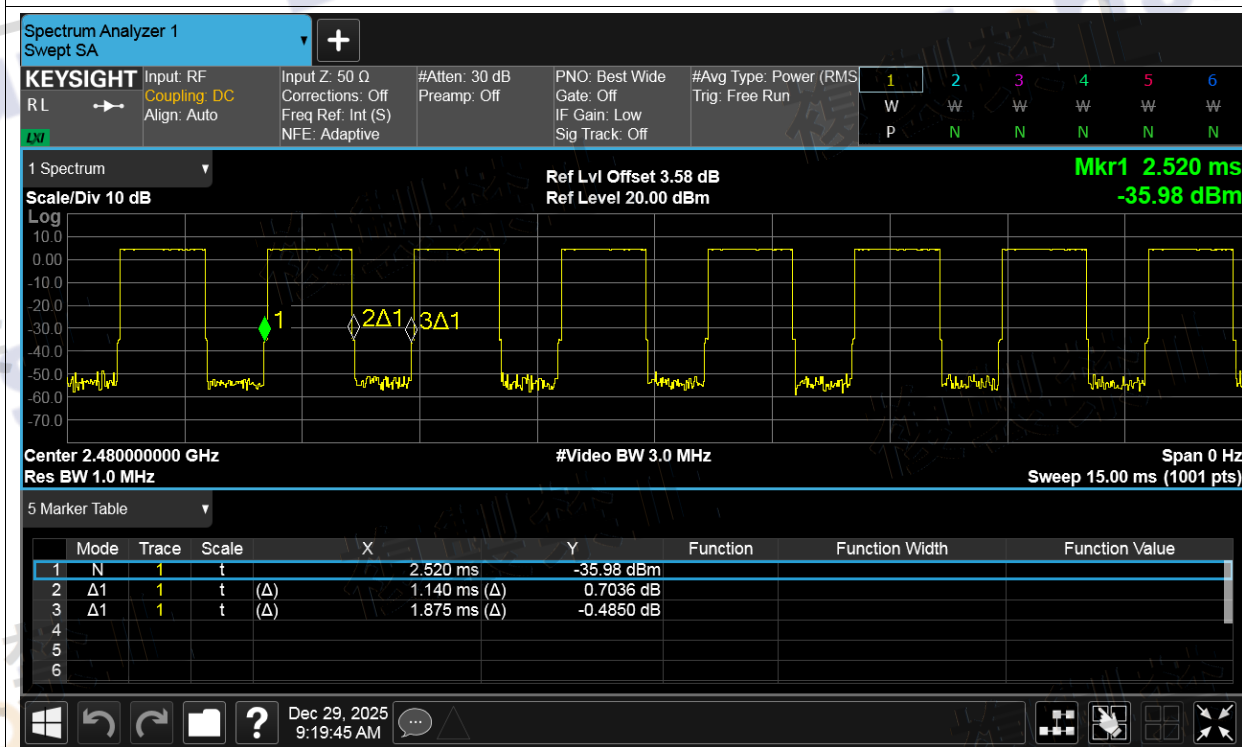
Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1

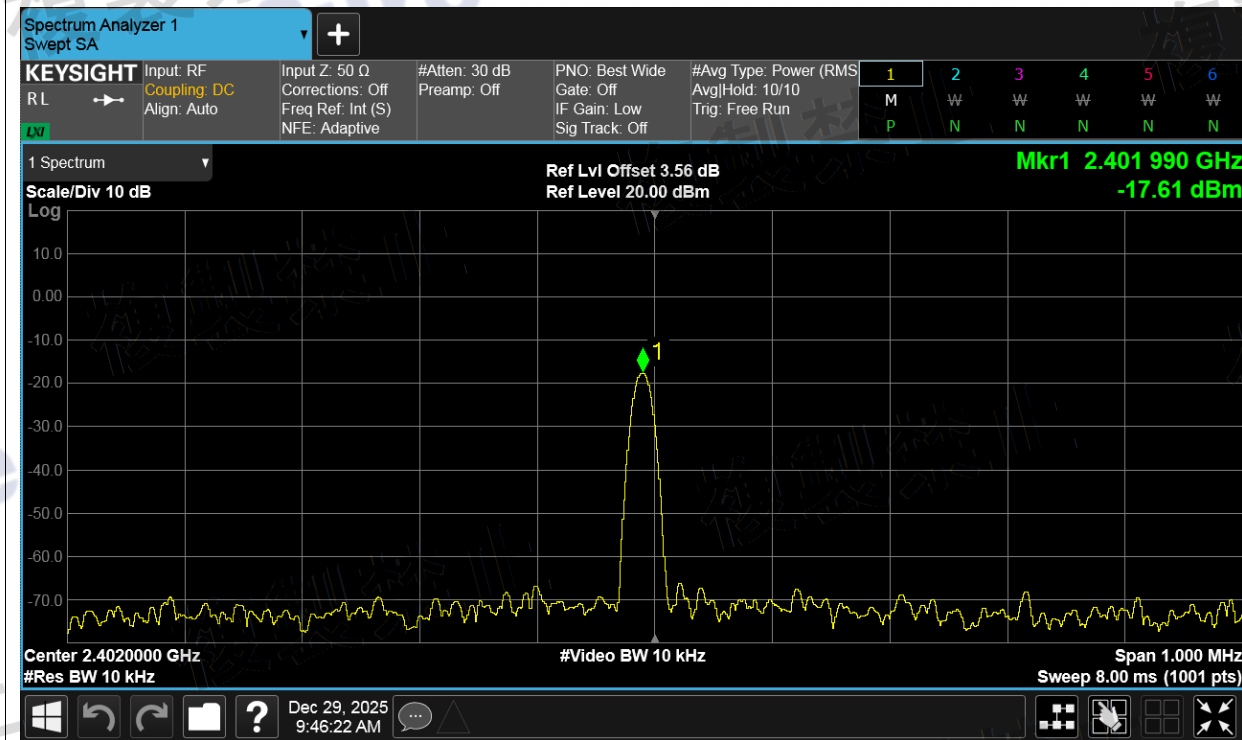


Frequency Tolerance

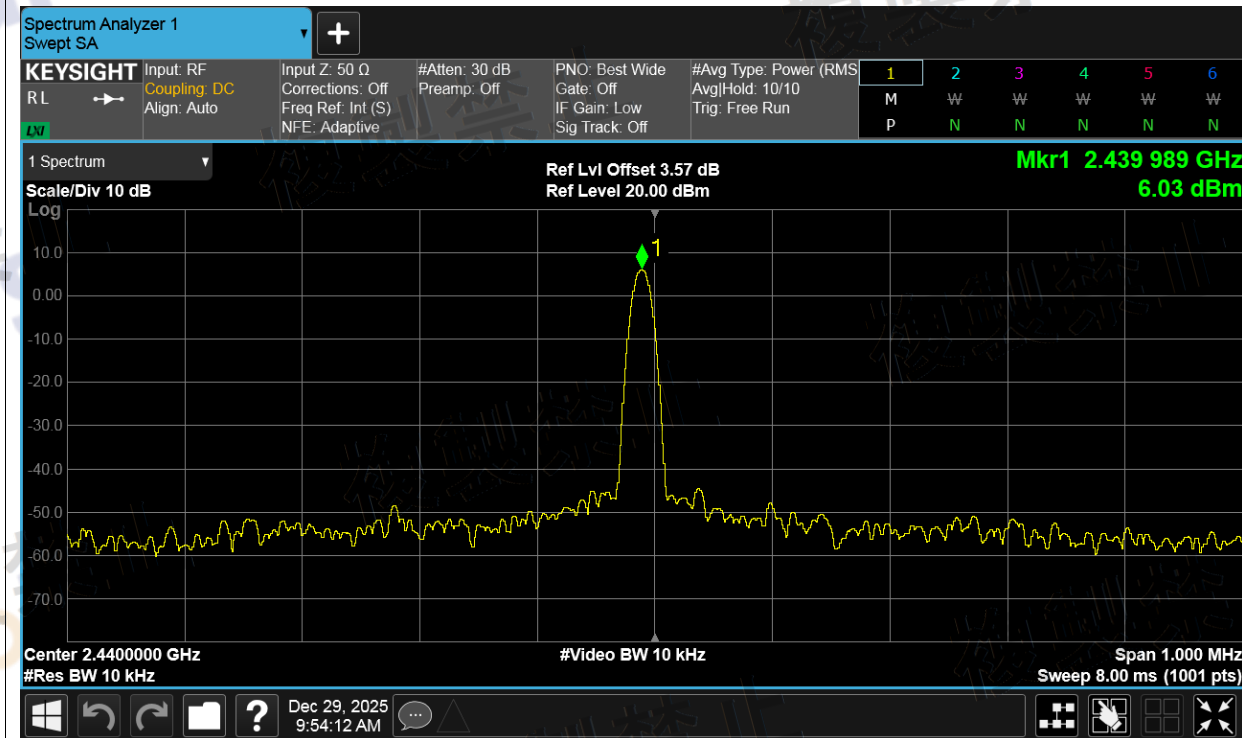
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	BLE 1M	2402	Ant1	2401.99	-10000	-4.16	50	Pass
NVNT	BLE 1M	2440	Ant1	2439.989	-11000	-4.51	50	Pass
NVNT	BLE 1M	2480	Ant1	2479.987	-13000	-5.24	50	Pass
NVNT	BLE 2M	2402	Ant1	2401.99	-10000	-4.16	50	Pass
NVNT	BLE 2M	2440	Ant1	2439.989	-11000	-4.51	50	Pass
NVNT	BLE 2M	2480	Ant1	2479.987	-13000	-5.24	50	Pass

Test Graphs

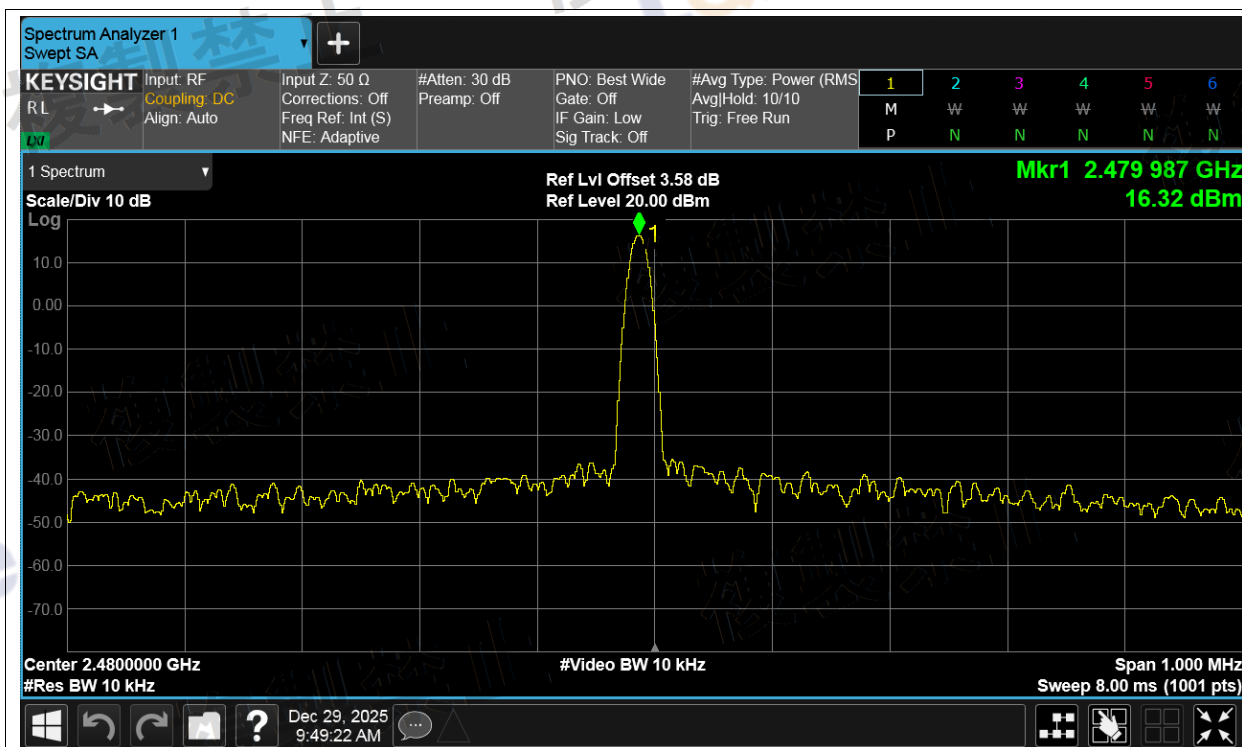
Freq. Error NVNT BLE 1M 2402MHz Ant1



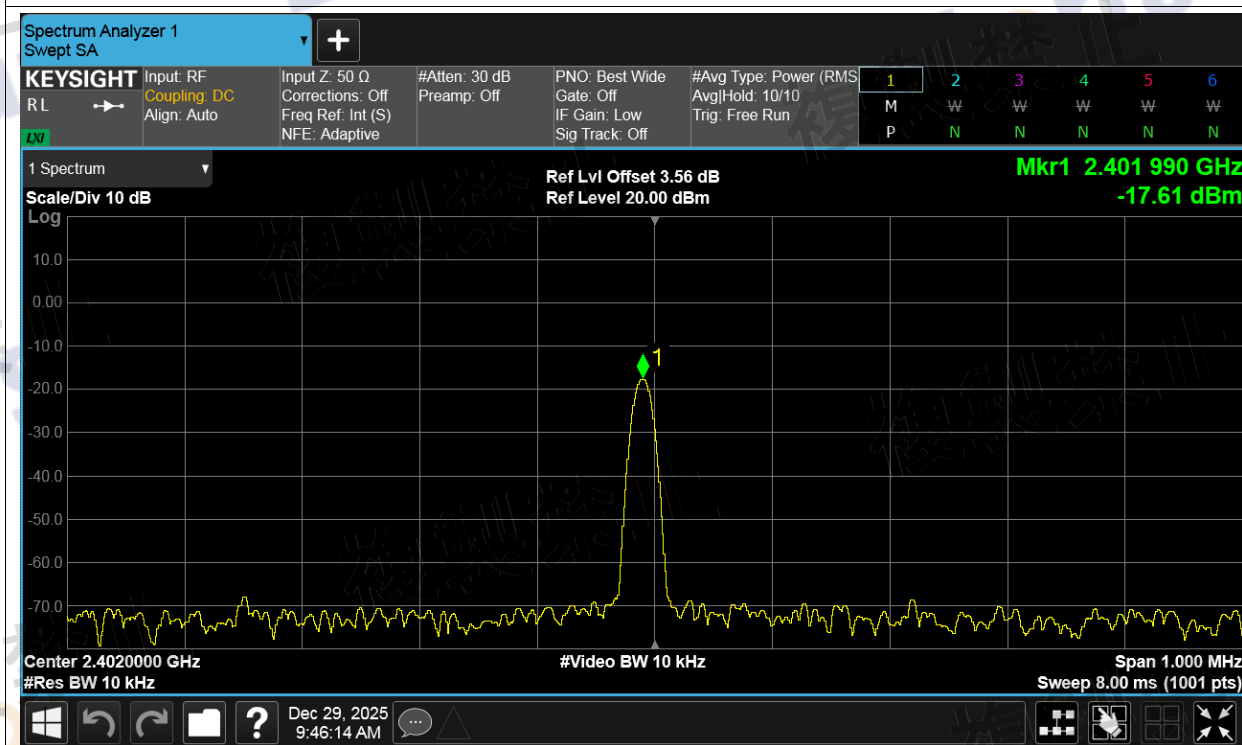
Freq. Error NVNT BLE 1M 2440MHz Ant1



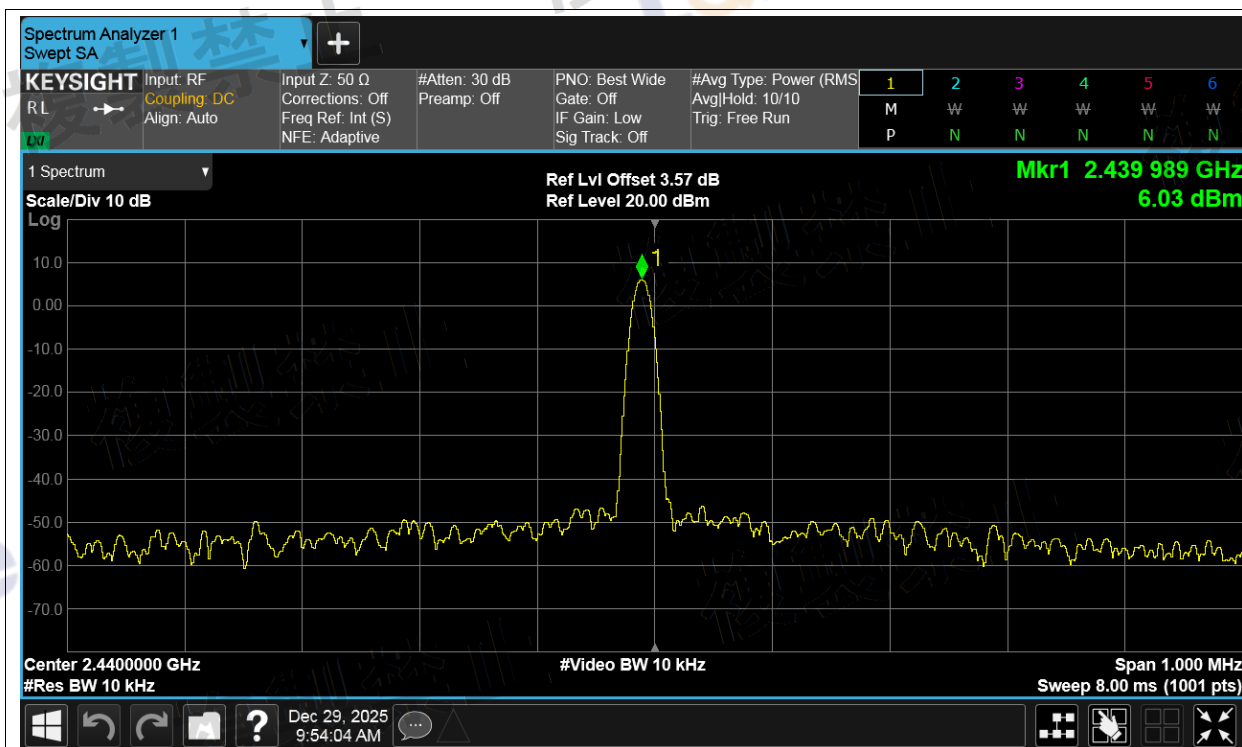
Freq. Error NVNT BLE 1M 2480MHz Ant1



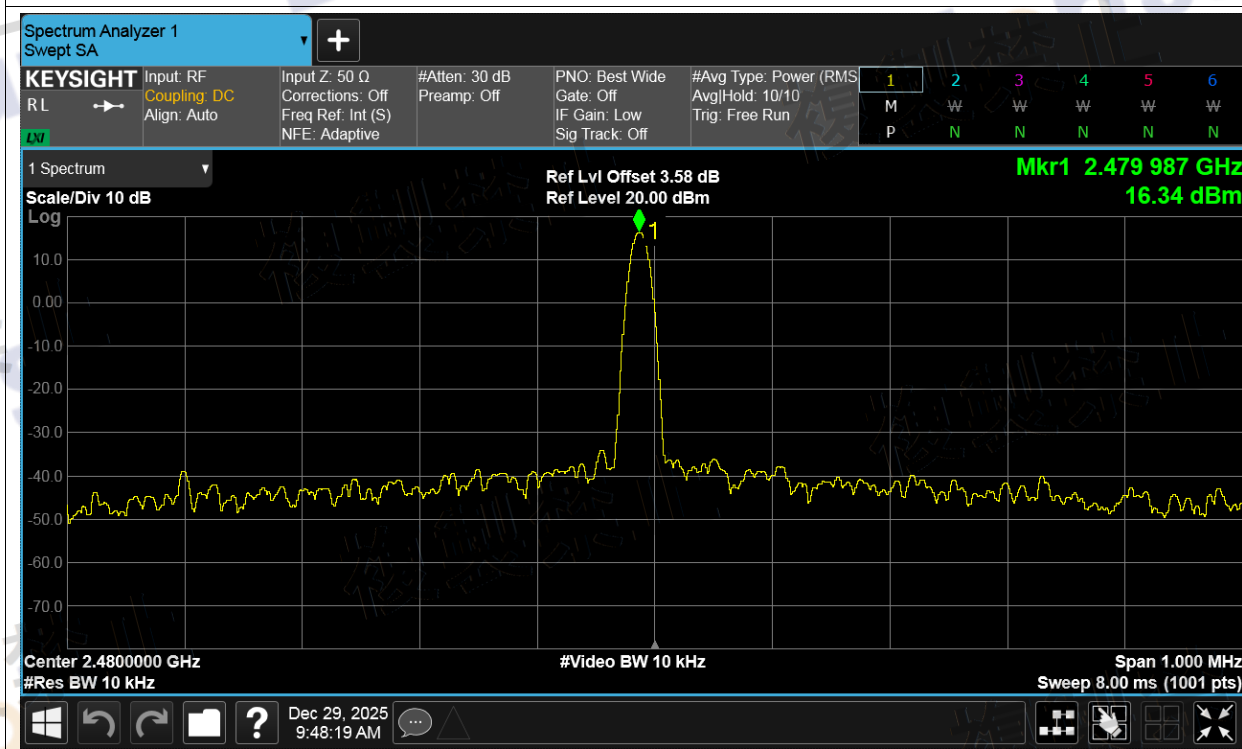
Freq. Error NVNT BLE 2M 2402MHz Ant1



Freq. Error NVNT BLE 2M 2440MHz Ant1



Freq. Error NVNT BLE 2M 2480MHz Ant1

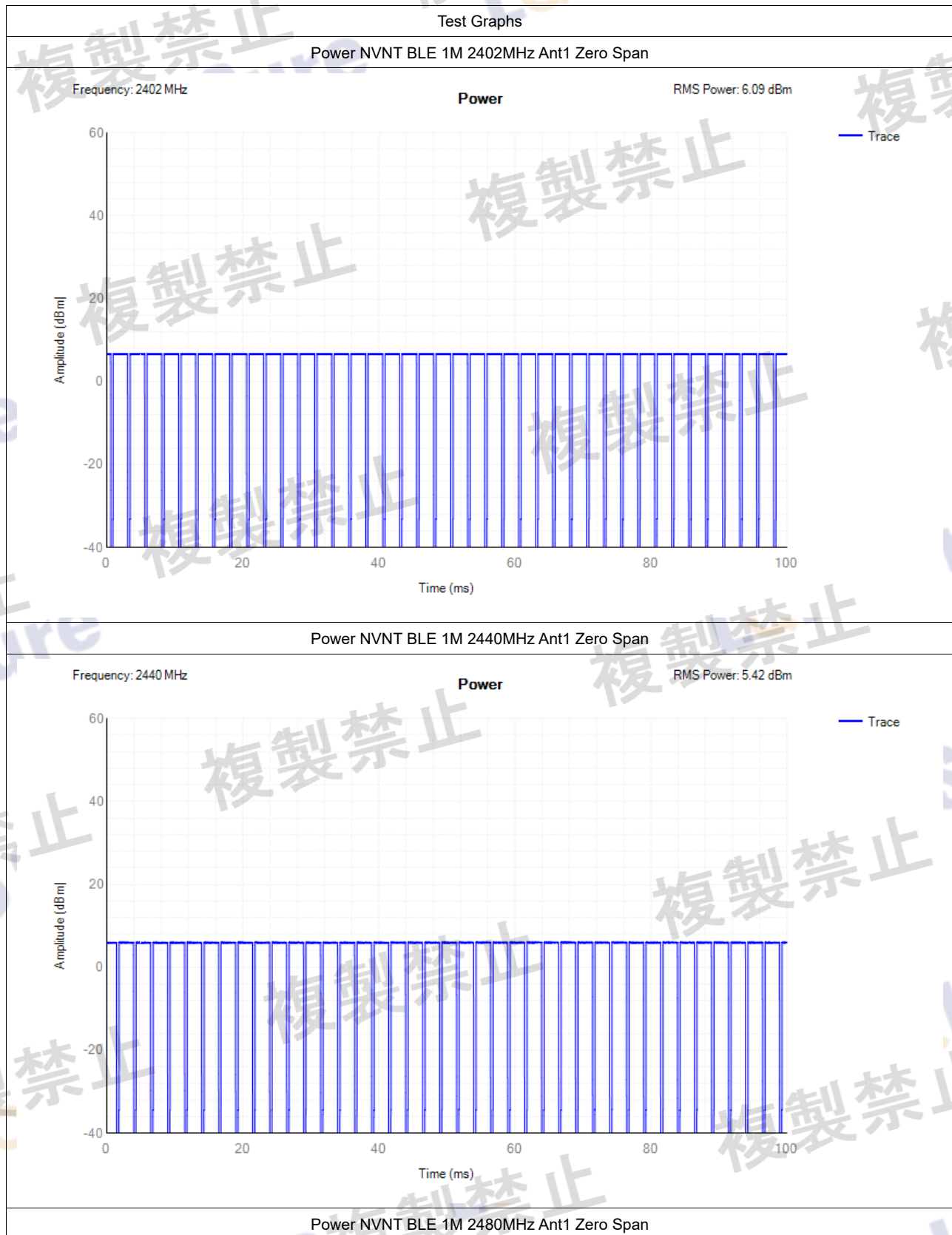


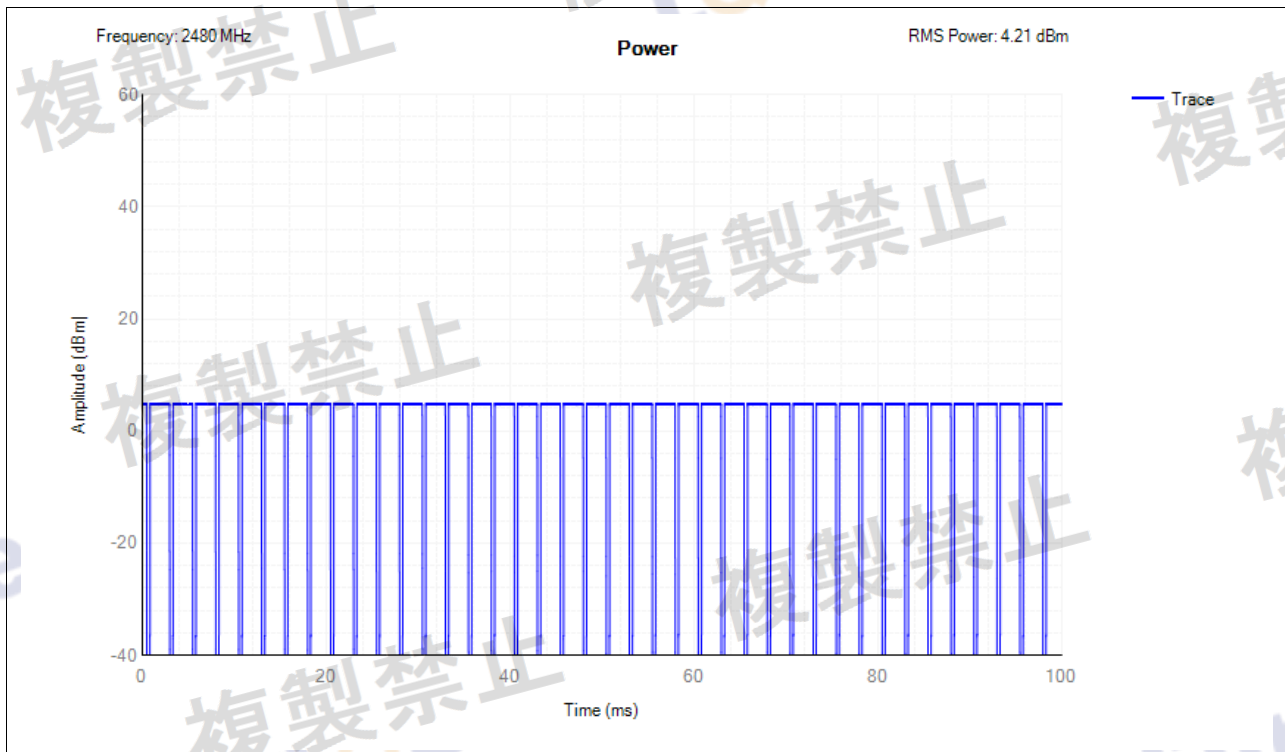
Antenna Power and Tolerances for Antenna Power

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Duty Cycle (%)	Power (dBm)	Antenna Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	BLE 1M	2402	Ant1	6.09	87.43	6.67	4.65	10	5	-7.02	20	Pass
NVNT	BLE 1M	2440	Ant1	5.42	87.2	6.01	3.99	10	5	-20.11	20	Pass
NVNT	BLE 1M	2480	Ant1	4.21	86.4	4.84	3.05	10	5	-38.97	20	Pass
NVNT	BLE 2M	2402	Ant1	4.43	60.8	6.59	4.56	10	5	-8.77	20	Pass
NVNT	BLE 2M	2440	Ant1	3.88	60.0	6.10	4.07	10	5	-18.55	20	Pass
NVNT	BLE 2M	2480	Ant1	2.97	60.8	5.13	3.26	10	5	-34.82	20	Pass

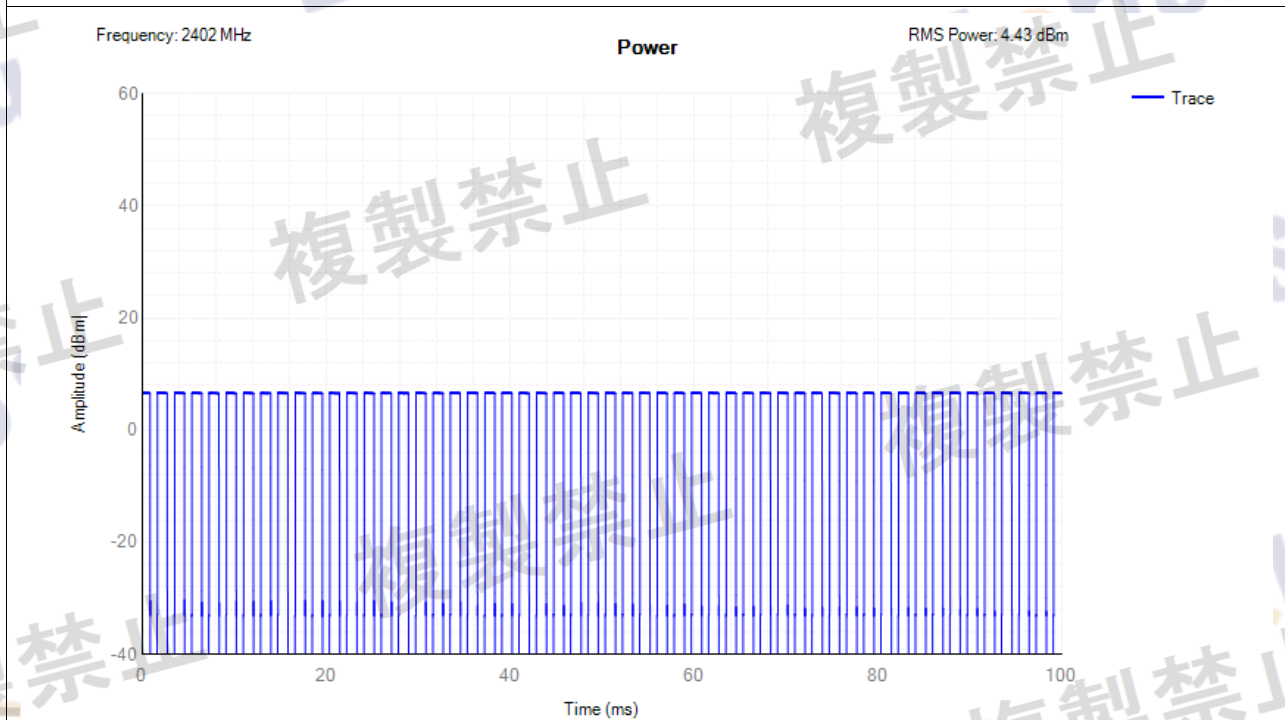
Note 1: Antenna Power (mW)= Measured Power (mW) / Burst Ratio

Note 2: Burst Ratio = ON Time / (ON Time + OFF Time)

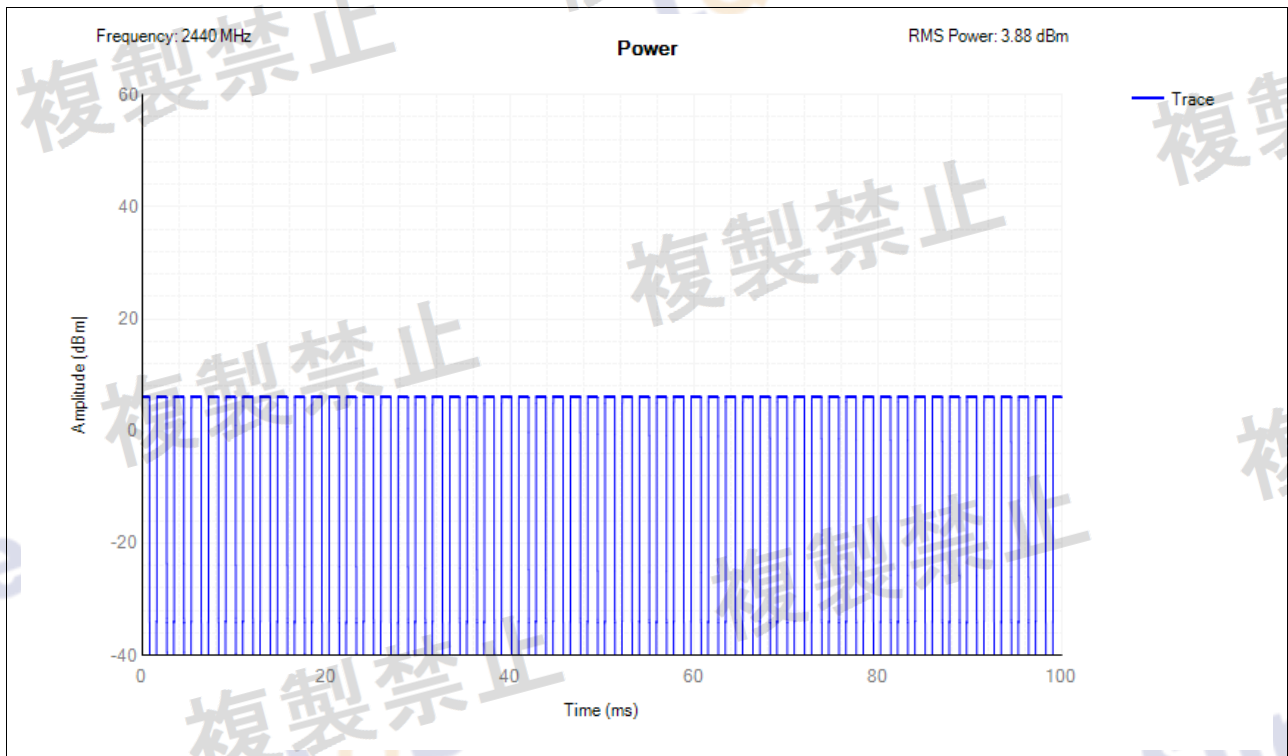




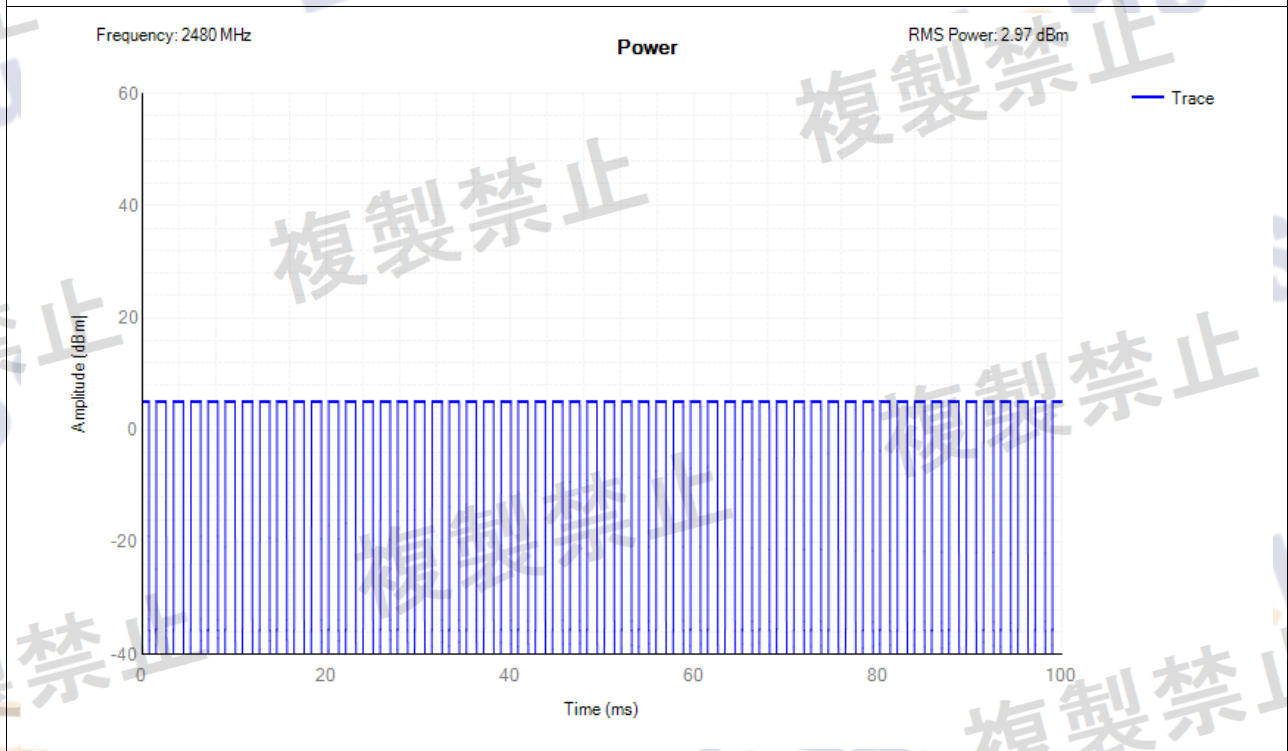
Power NVNT BLE 2M 2402MHz Ant1 Zero Span



Power NVNT BLE 2M 2440MHz Ant1 Zero Span



Power NVNT BLE 2M 2480MHz Ant1 Zero Span



EIRP Power

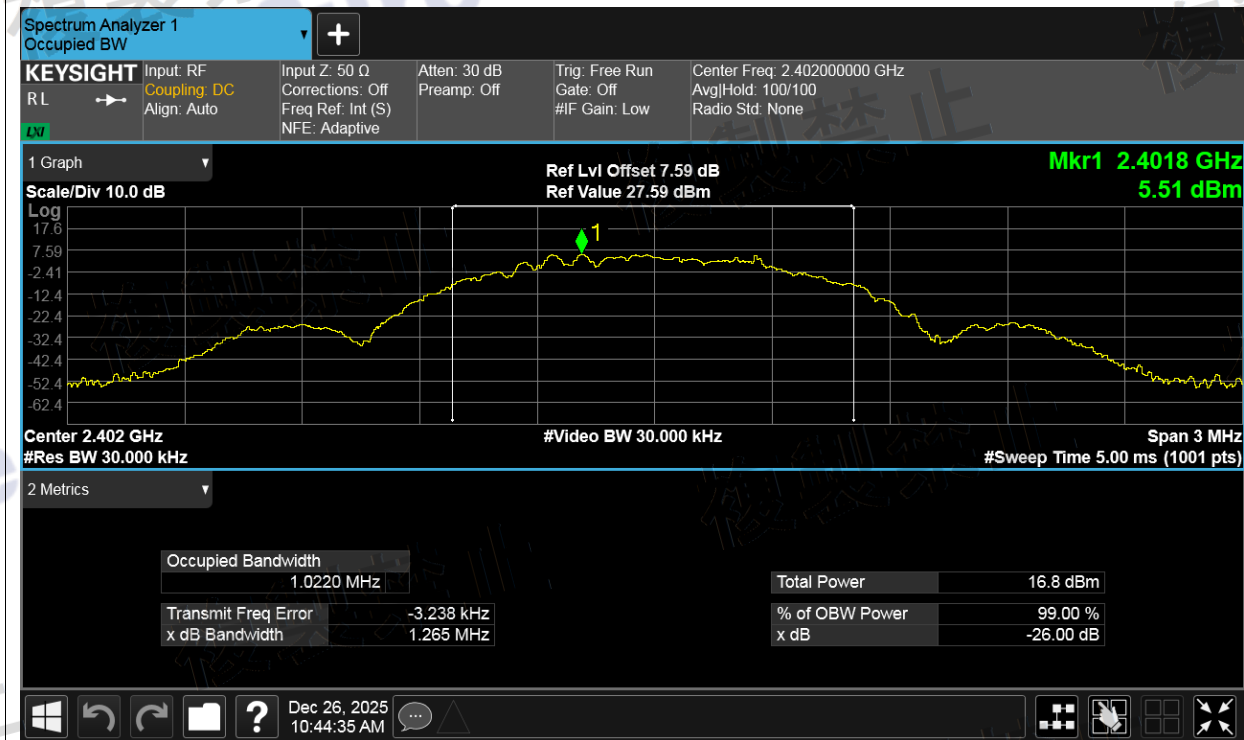
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	6.67	4.20	10.87	12.14	Pass
NVNT	BLE 1M	2440	Ant1	6.01	4.20	10.21	12.14	Pass
NVNT	BLE 1M	2480	Ant1	4.84	4.20	9.04	12.14	Pass
NVNT	BLE 2M	2402	Ant1	6.59	4.20	10.79	12.14	Pass
NVNT	BLE 2M	2440	Ant1	6.10	4.20	10.3	12.14	Pass
NVNT	BLE 2M	2480	Ant1	5.13	4.20	9.33	12.14	Pass

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.022	26	Pass
NVNT	BLE 1M	2440	Ant1	1.018	26	Pass
NVNT	BLE 1M	2480	Ant1	1.021	26	Pass
NVNT	BLE 2M	2402	Ant1	2.041	26	Pass
NVNT	BLE 2M	2440	Ant1	2.045	26	Pass
NVNT	BLE 2M	2480	Ant1	2.043	26	Pass

Test Graphs

OBW NVNT BLE 1M 2402MHz Ant1



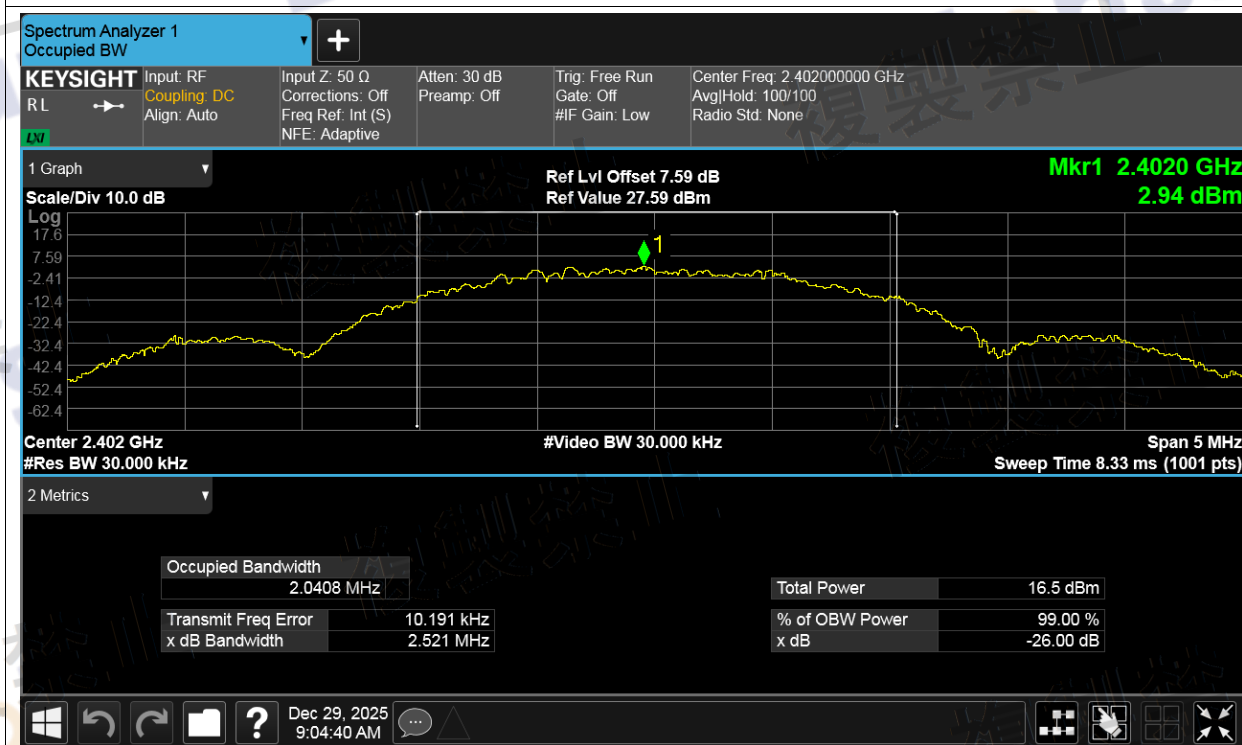
OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1

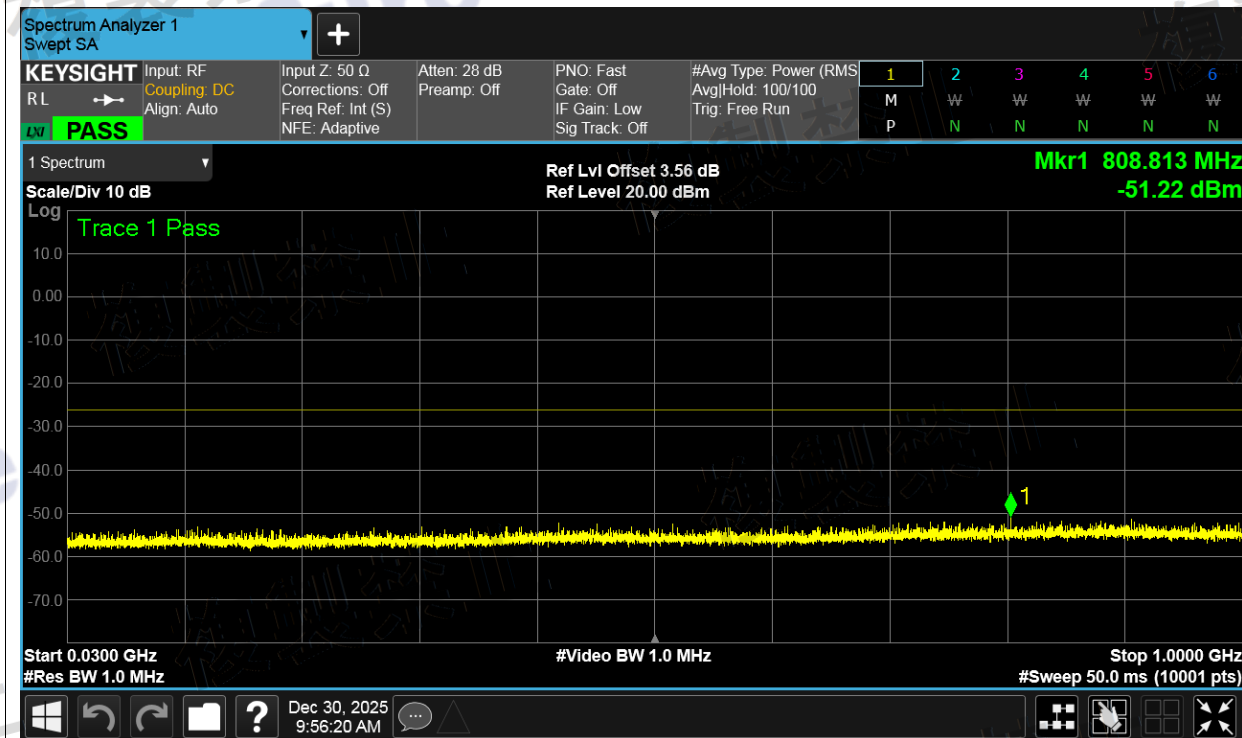


Transmitter Spurious Emissions

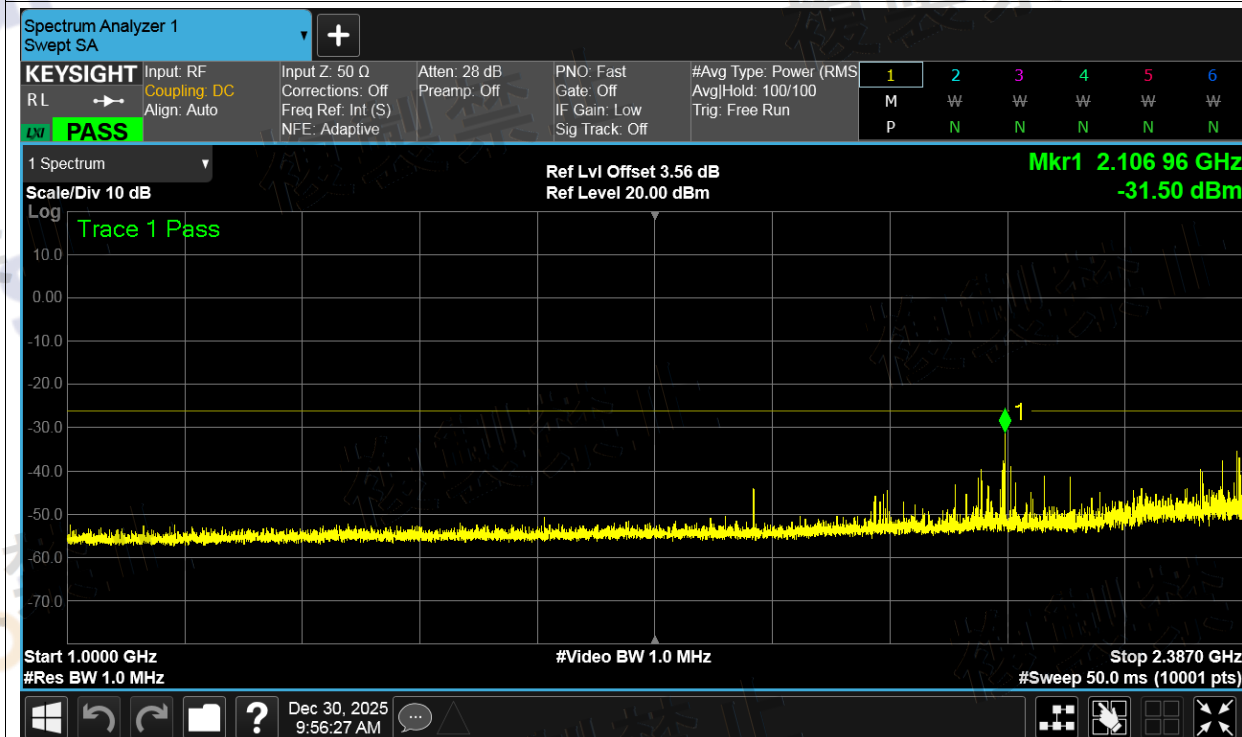
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW)	Max RMS Value (uW)	Limit Start(uW)	Limit Stop (uW)	Verdict
NVNT	BLE 1M	2402	Ant1	30-1000	808.81	-51.22	NA	0.0076	NA	2.5	2.5	Pass
NVNT	BLE 1M	2402	Ant1	1000-2387	2106.96	-31.50	NA	0.7079	NA	2.5	2.5	Pass
NVNT	BLE 1M	2402	Ant1	2387-2400	2399.73	-26.58	NA	2.1979	NA	25	25	Pass
NVNT	BLE 1M	2402	Ant1	2483.5-2496.5	2483.88	-42.66	NA	0.0542	NA	25	25	Pass
NVNT	BLE 1M	2402	Ant1	2496.5-13000	2701.32	-35.55	NA	0.2786	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	926.47	-51.37	NA	0.0073	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	1000-2387	2096.56	-31.10	NA	0.7762	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	2387-2400	2399.75	-26.57	NA	2.2029	NA	25	25	Pass
NVNT	BLE 1M	2440	Ant1	2483.5-2496.5	2488.14	-43.83	NA	0.0414	NA	25	25	Pass
NVNT	BLE 1M	2440	Ant1	2496.5-13000	3789.48	-45.31	NA	0.0294	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	909.60	-49.11	NA	0.0123	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	1000-2387	2338.46	-48.74	NA	0.0134	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	2387-2400	2398.73	-37.65	NA	0.1718	NA	25	25	Pass
NVNT	BLE 1M	2480	Ant1	2483.5-2496.5	2490.02	-31.70	NA	0.6761	NA	25	25	Pass
NVNT	BLE 1M	2480	Ant1	2496.5-13000	2788.50	-33.89	NA	0.4083	NA	2.5	2.5	Pass
NVNT	BLE 2M	2402	Ant1	30-1000	870.41	-51.48	NA	0.0071	NA	2.5	2.5	Pass
NVNT	BLE 2M	2402	Ant1	1000-2387	2103.36	-30.68	NA	0.8551	NA	2.5	2.5	Pass
NVNT	BLE 2M	2402	Ant1	2387-2400	2400.00	-17.99	-21.403	15.8855	7.2393	25	25	Pass
NVNT	BLE 2M	2402	Ant1	2483.5-2496.5	2488.11	-45.28	NA	0.0296	NA	25	25	Pass
NVNT	BLE 2M	2402	Ant1	2496.5-13000	4554.14	-45.56	NA	0.0278	NA	2.5	2.5	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	842.18	-51.46	NA	0.0071	NA	2.5	2.5	Pass
NVNT	BLE 2M	2440	Ant1	1000-2387	2135.54	-26.16	-63.257	15.8855	0.0005	2.5	2.5	Pass
NVNT	BLE 2M	2440	Ant1	2387-2400	2396.25	-41.32	NA	0.0738	NA	25	25	Pass
NVNT	BLE 2M	2440	Ant1	2483.5-2496.5	2483.74	-43.89	NA	0.0408	NA	25	25	Pass
NVNT	BLE 2M	2440	Ant1	2496.5-13000	2747.53	-41.71	NA	0.0675	NA	2.5	2.5	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	810.75	-51.45	NA	0.0072	NA	2.5	2.5	Pass
NVNT	BLE 2M	2480	Ant1	1000-2387	2172.29	-25.30	-46.384	2.421	0.0230	2.5	2.5	Pass
NVNT	BLE 2M	2480	Ant1	2387-2400	2393.77	-41.84	NA	0.0655	NA	25	25	Pass
NVNT	BLE 2M	2480	Ant1	2483.5-2496.5	2487.05	-36.46	NA	0.2259	NA	25	25	Pass
NVNT	BLE 2M	2480	Ant1	2496.5-13000	2788.50	-42.87	NA	0.0516	NA	2.5	2.5	Pass

Test Graphs

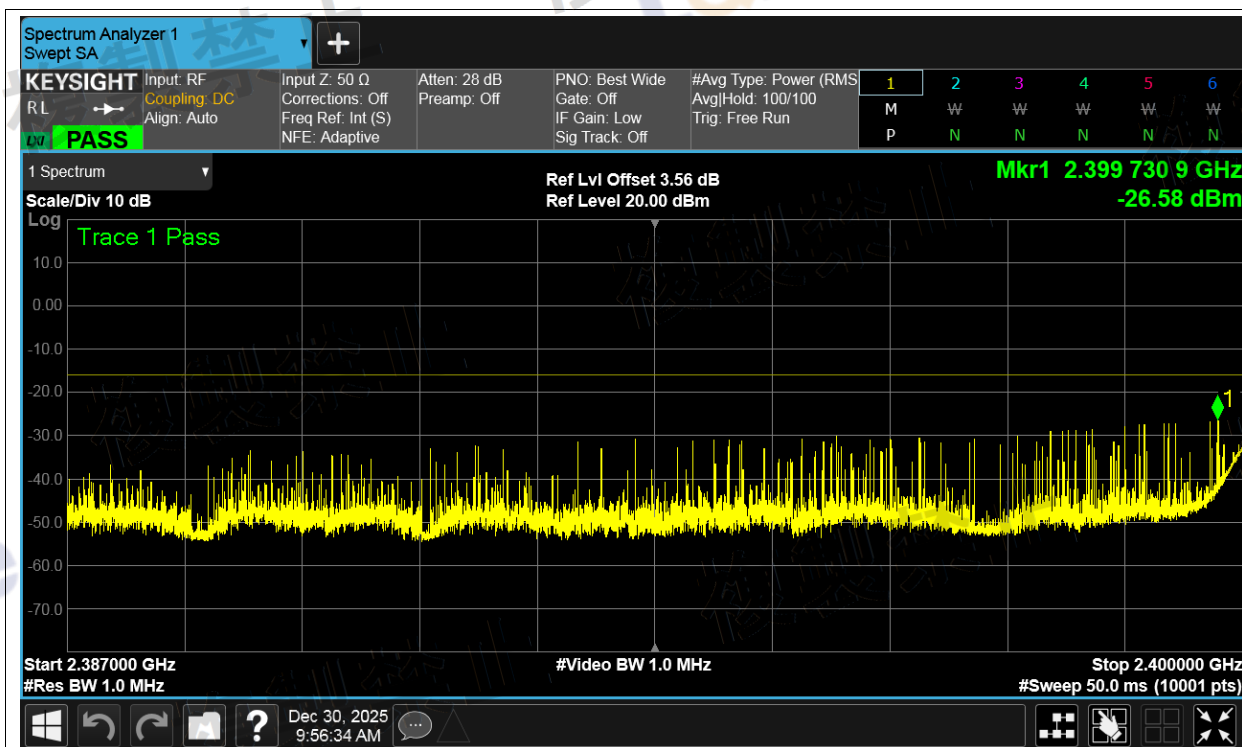
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



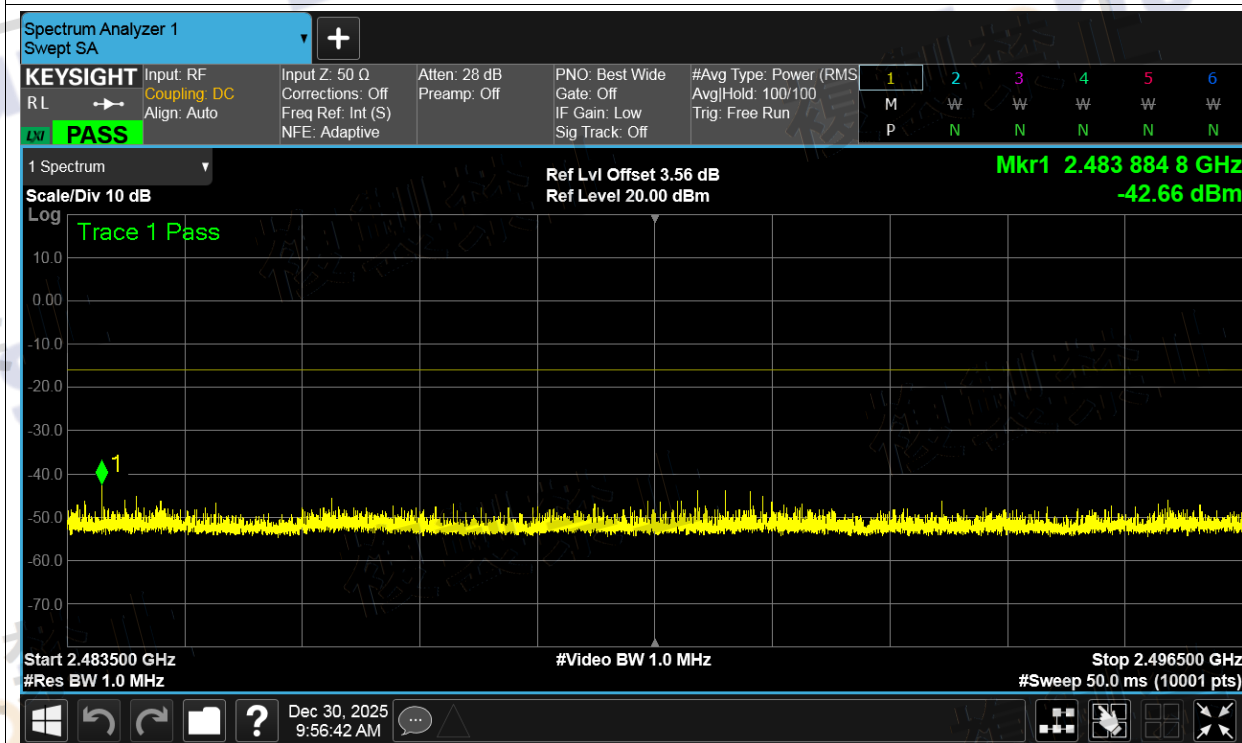
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-2387MHz



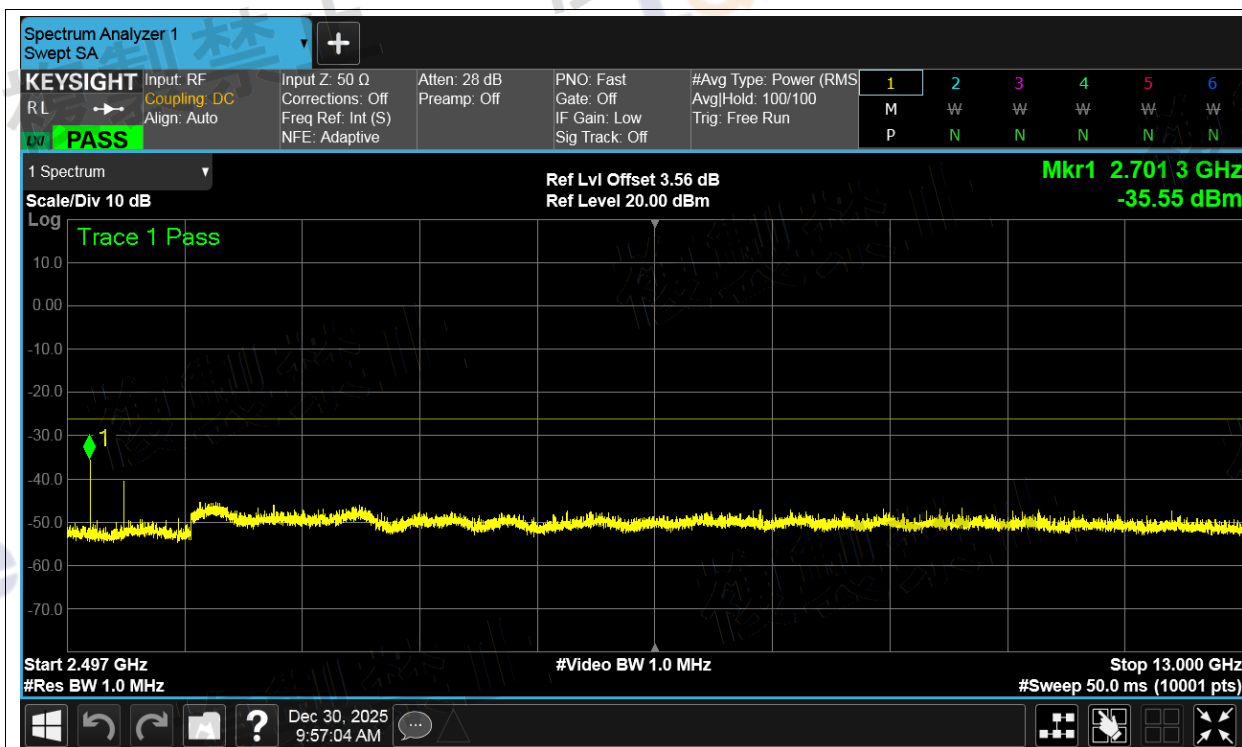
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2387MHz-2400MHz



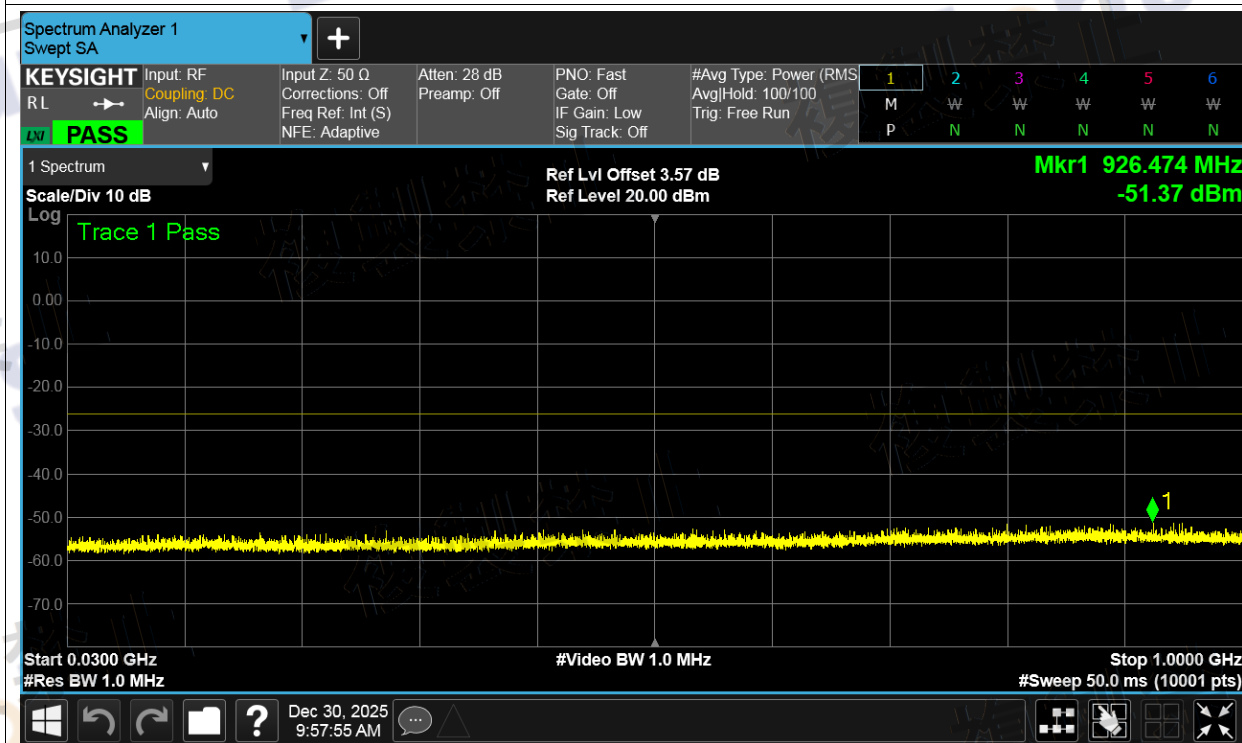
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



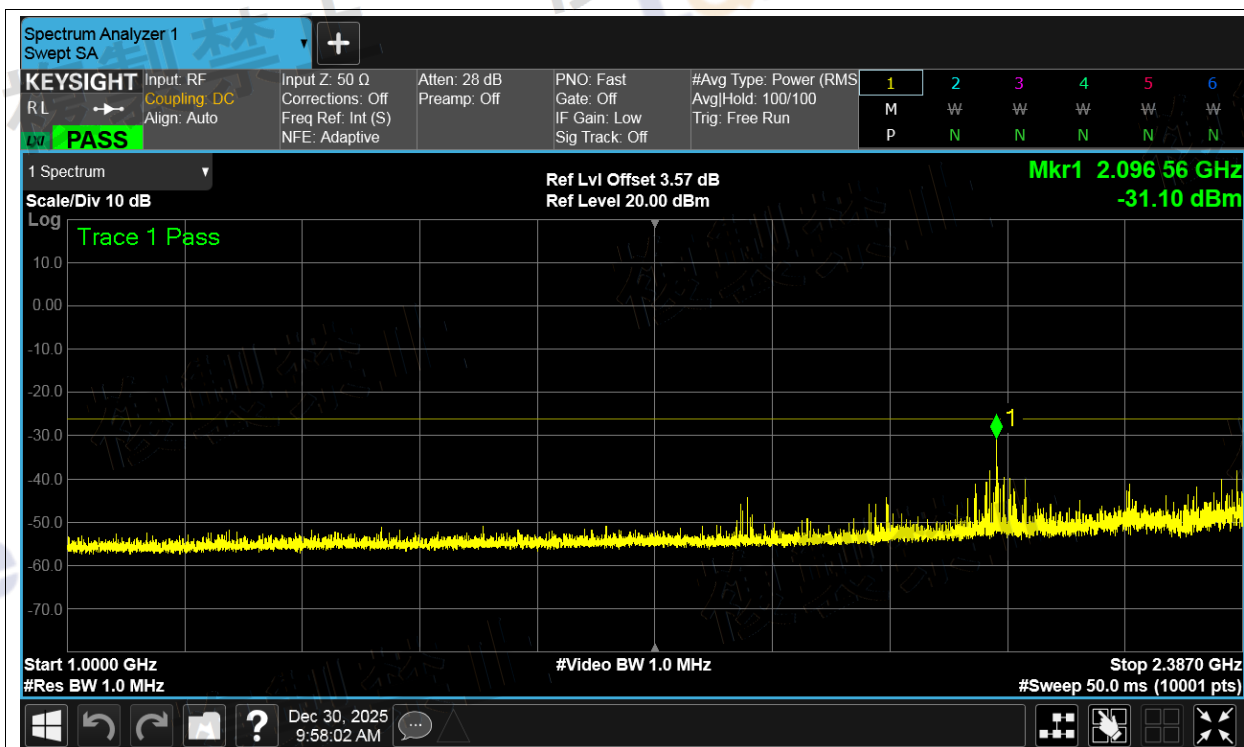
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2496.5MHz-13000MHz



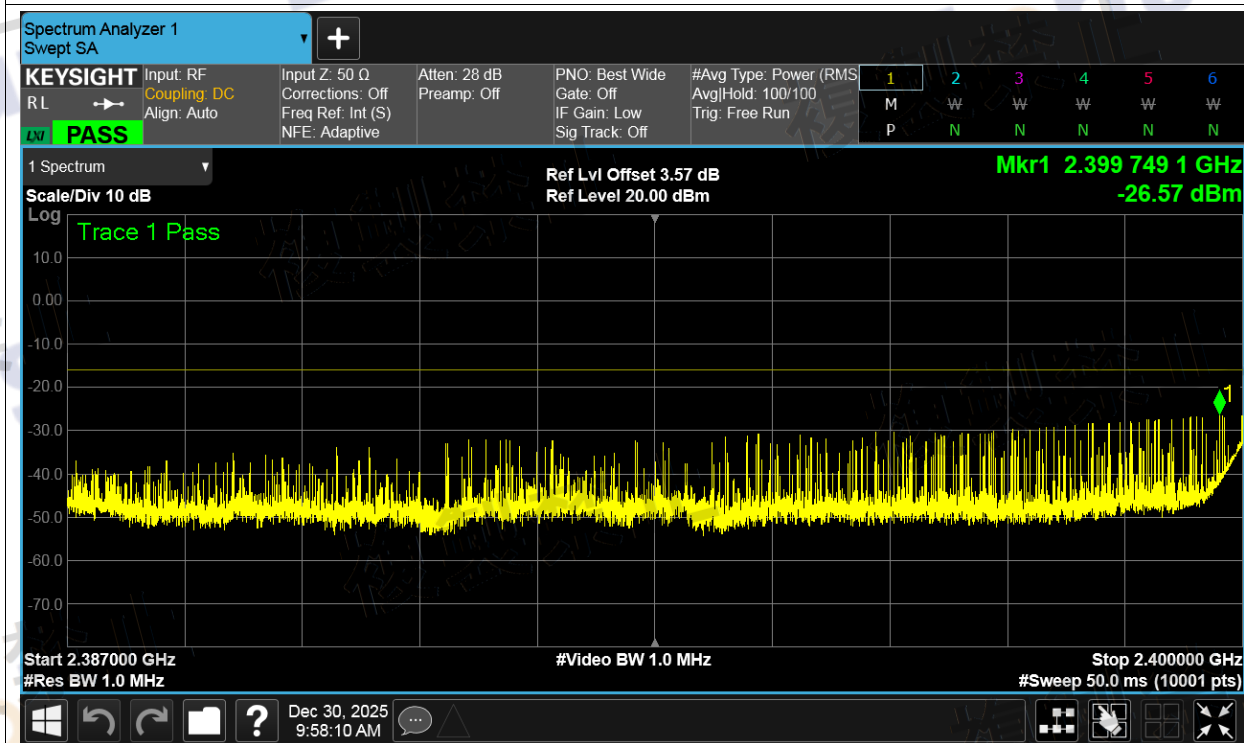
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



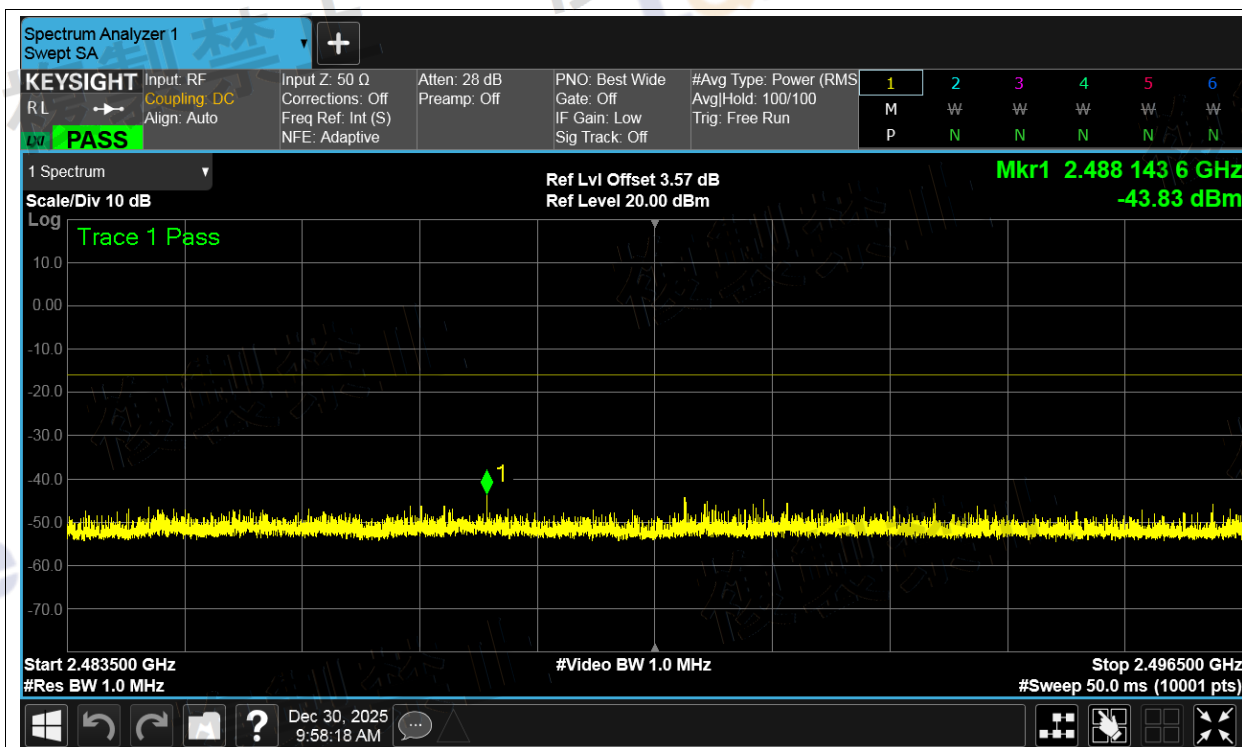
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-2387MHz



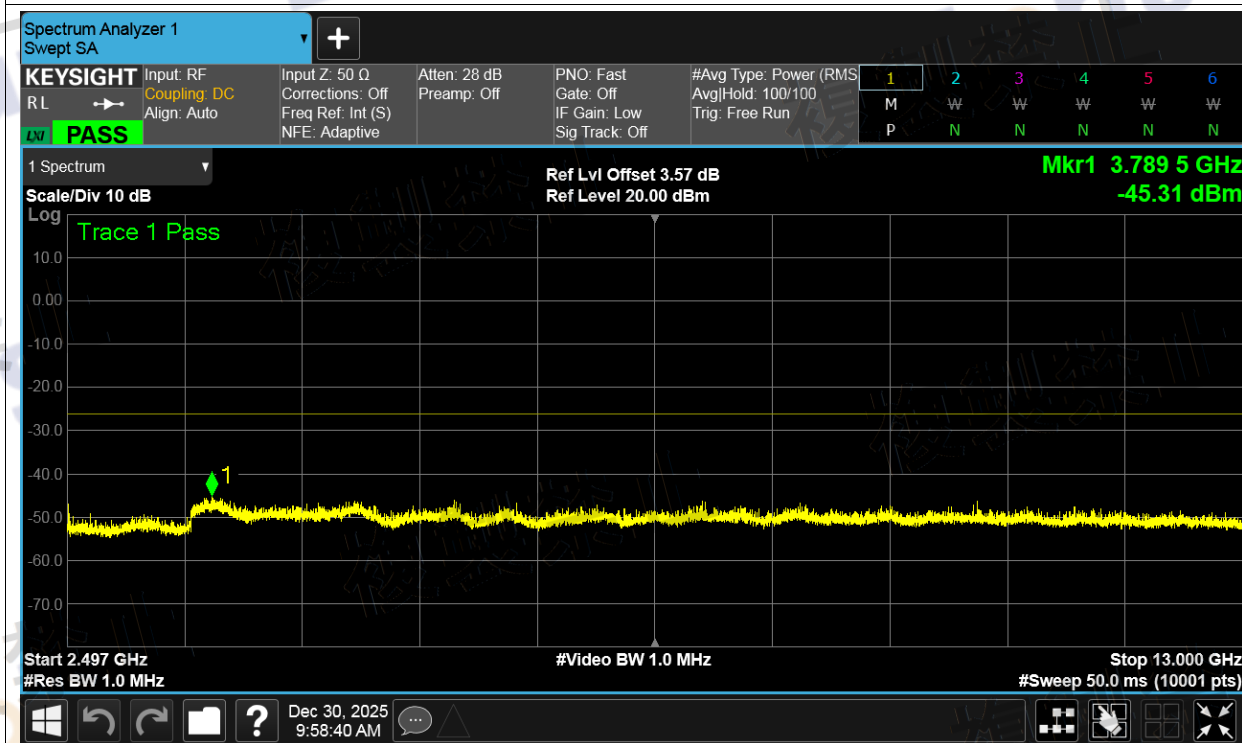
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2387MHz-2400MHz



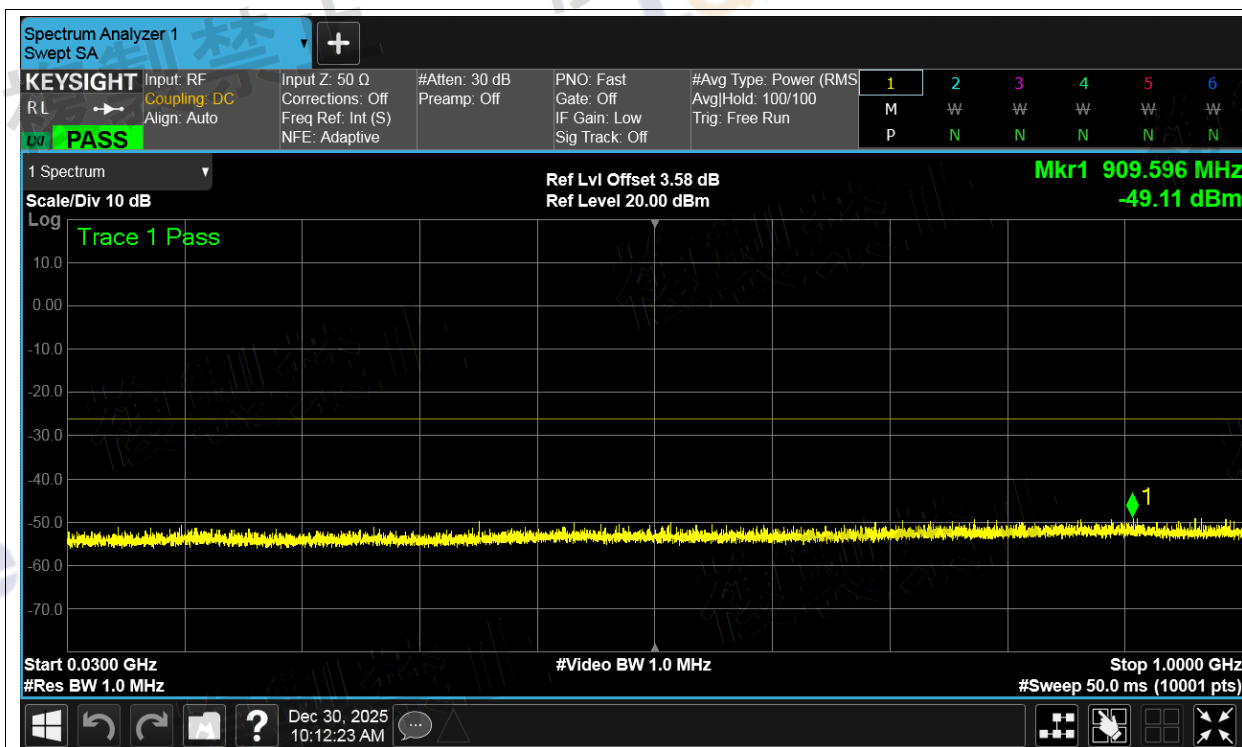
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



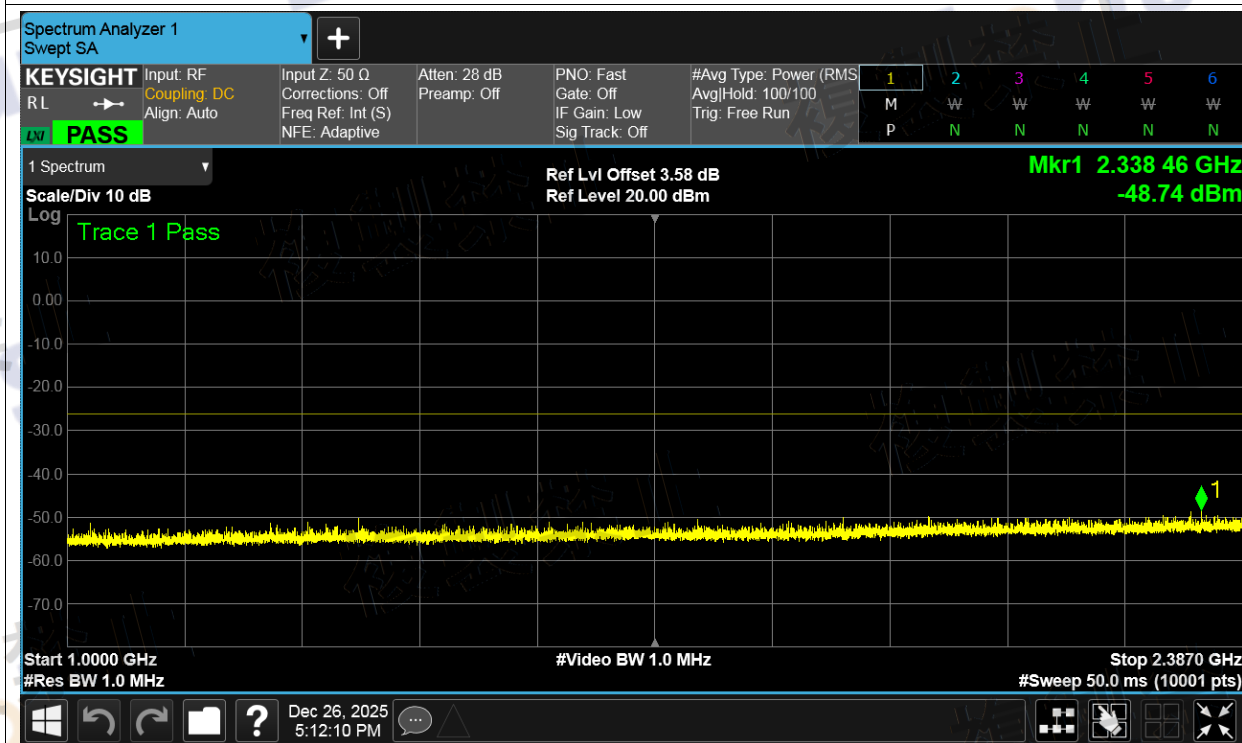
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2496.5MHz-13000MHz



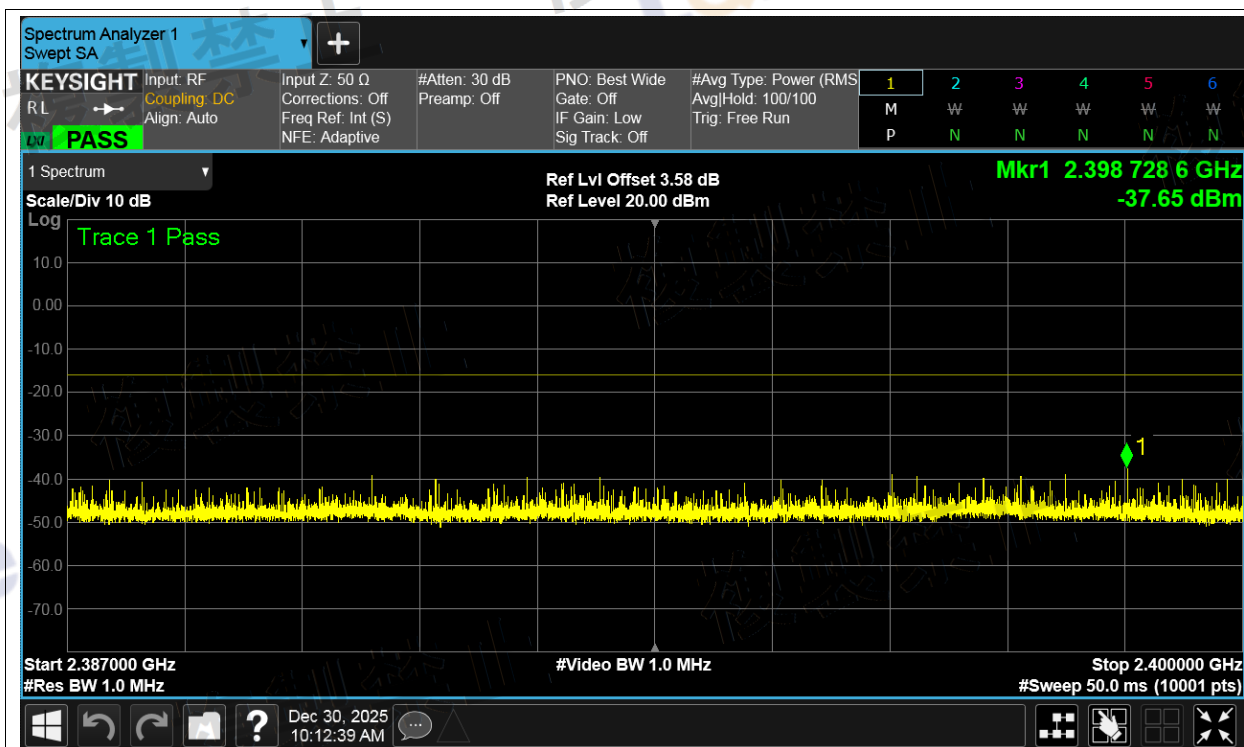
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 30MHz-1000MHz



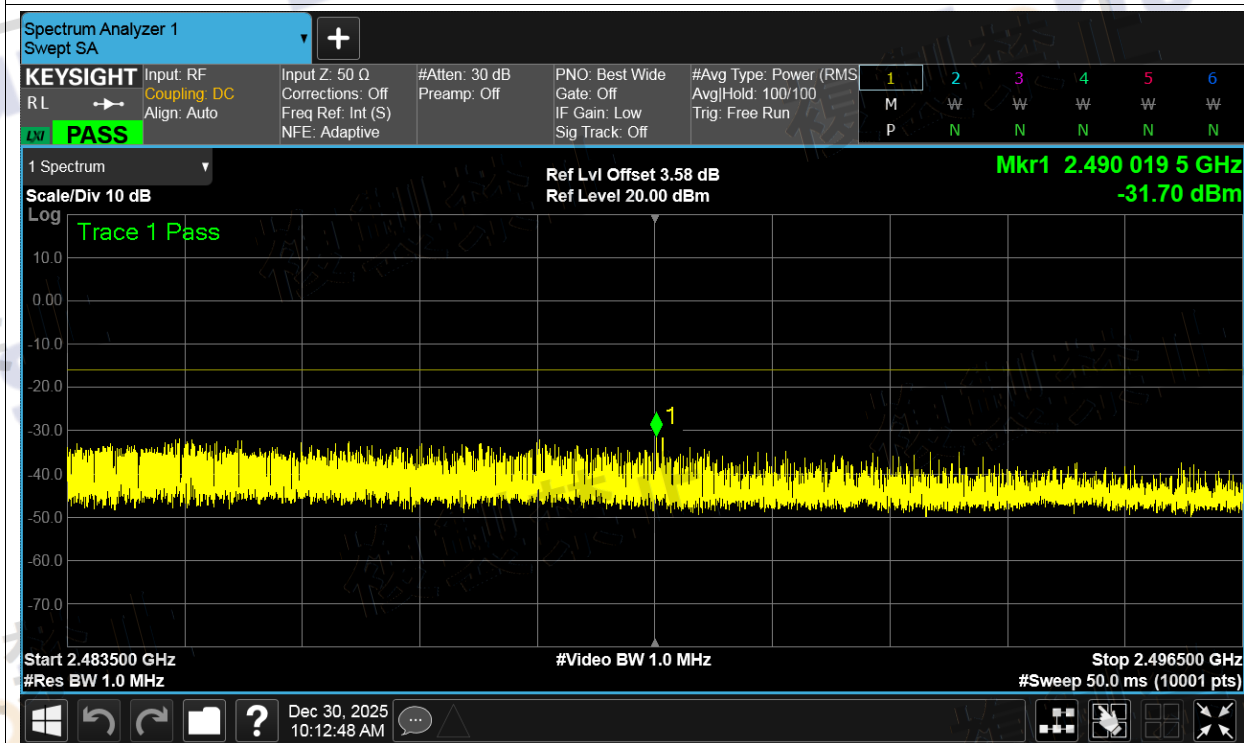
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 1000MHz-2387MHz



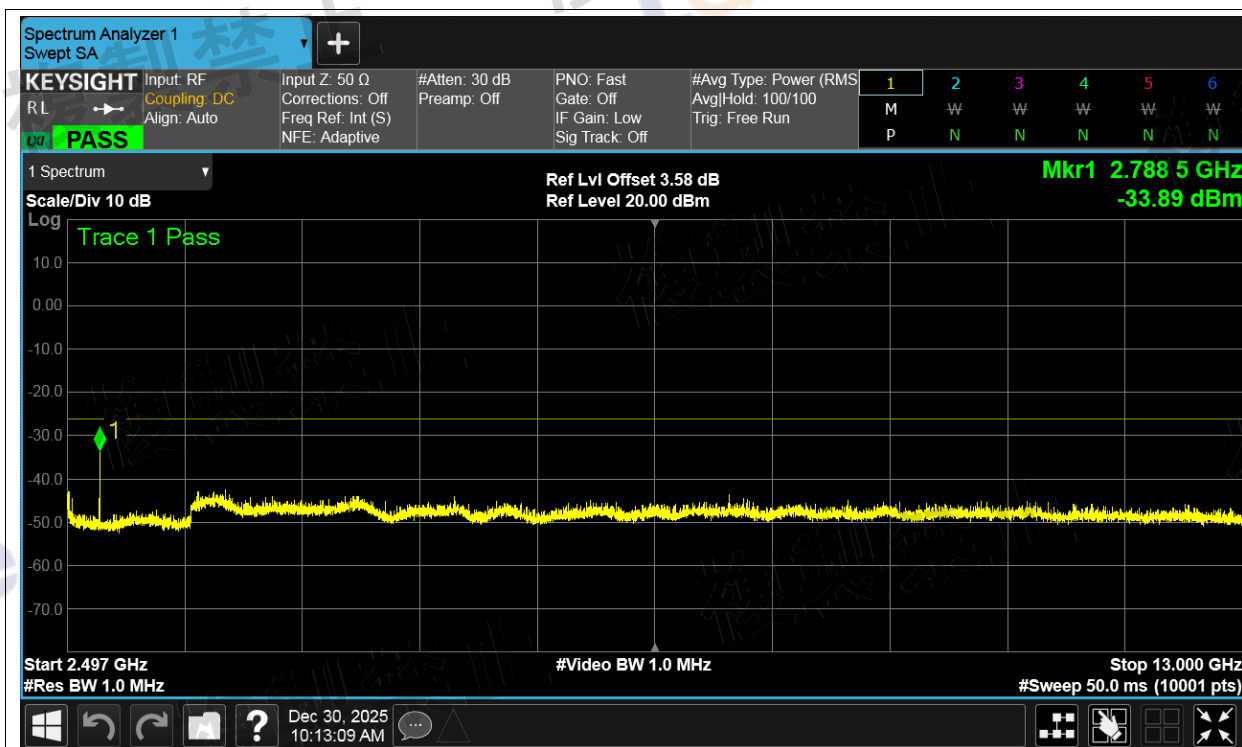
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 2387MHz-2400MHz



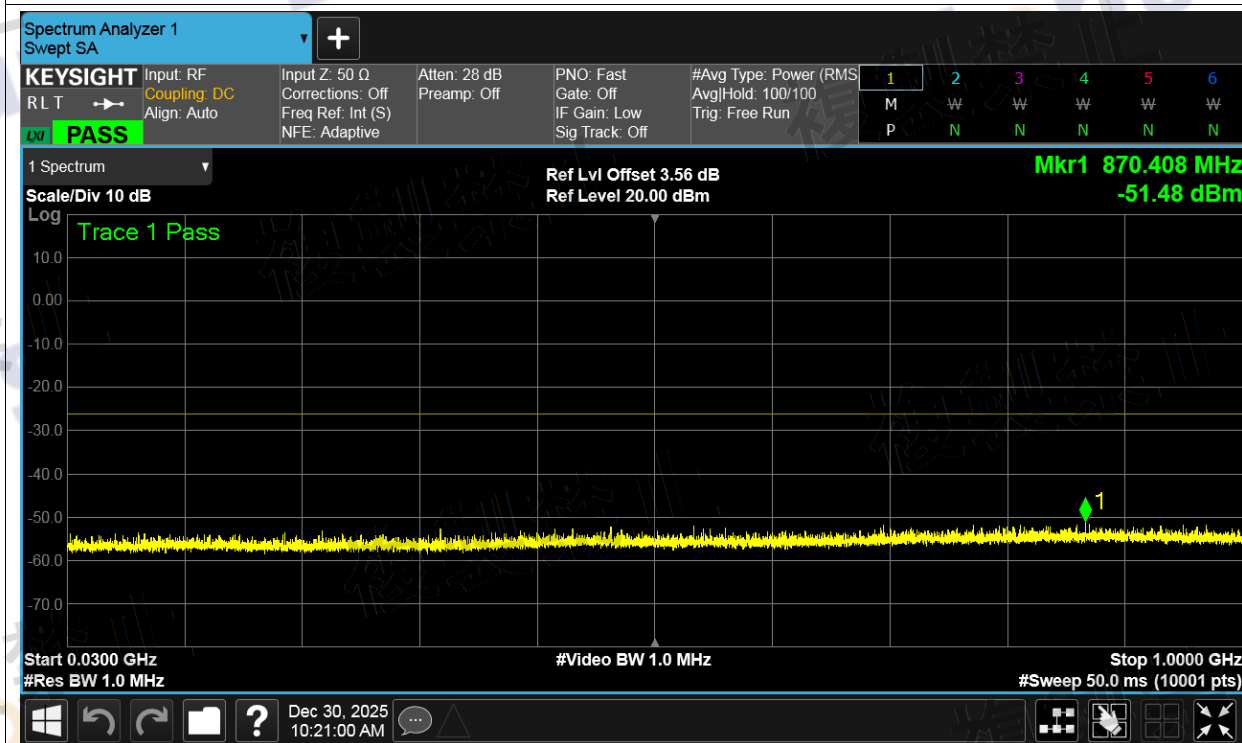
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



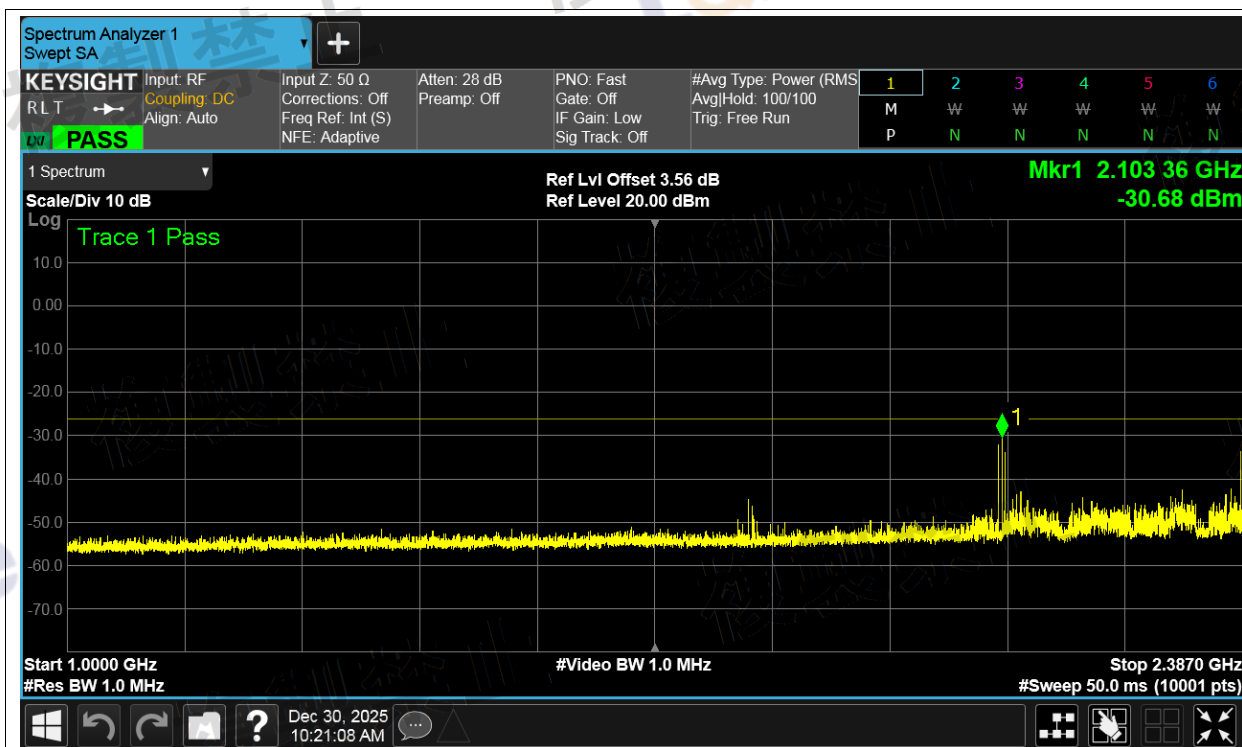
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 2496.5MHz-13000MHz



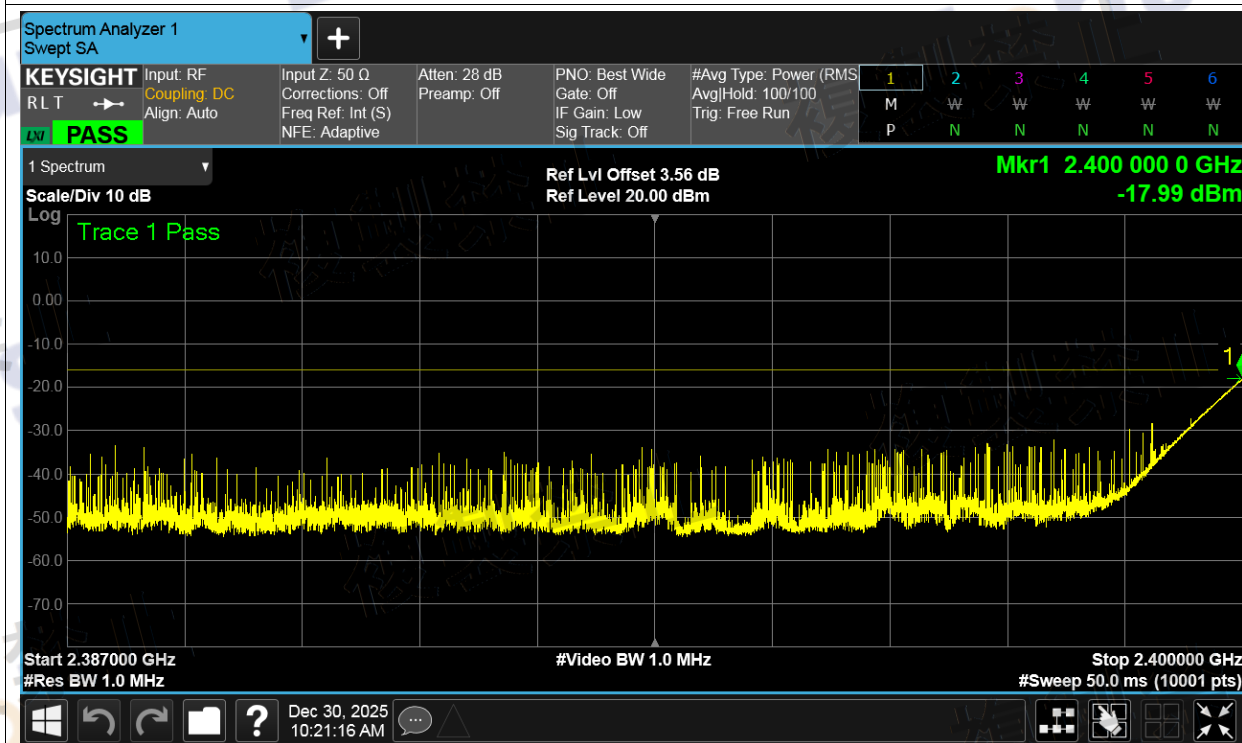
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-2387MHz



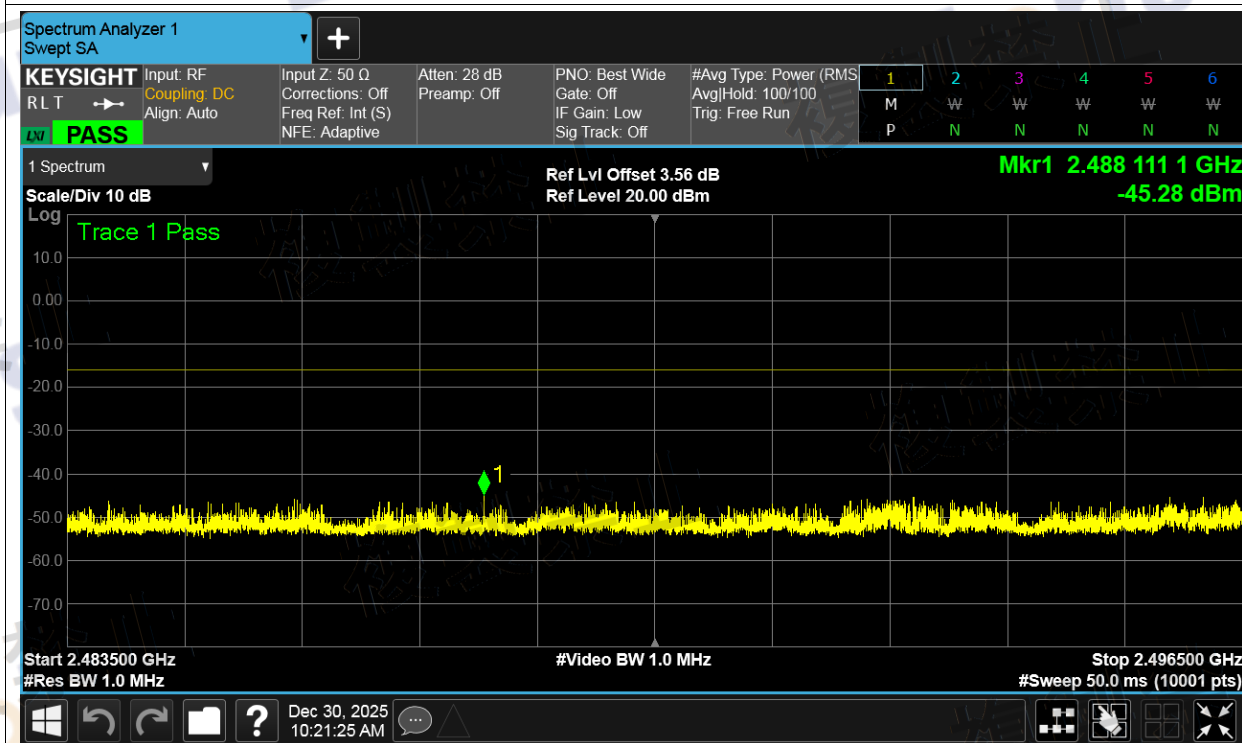
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2387MHz-2400MHz



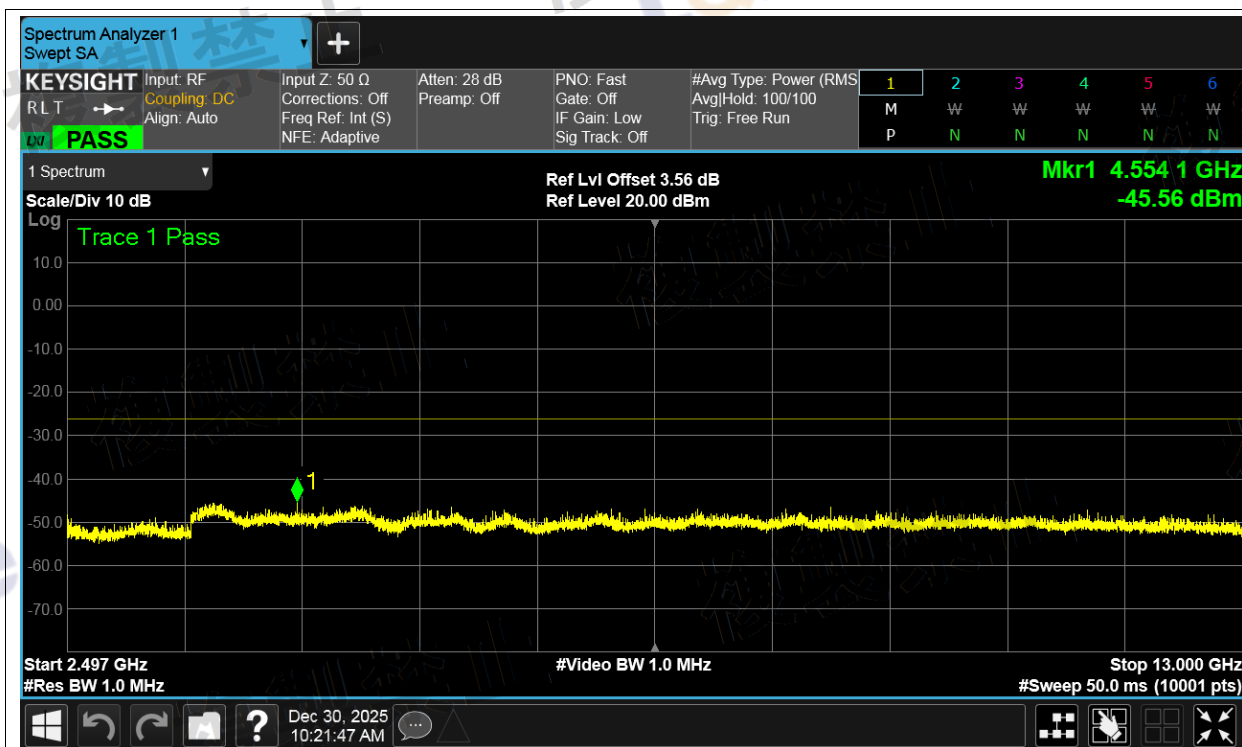
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2387MHz-2400MHz Final



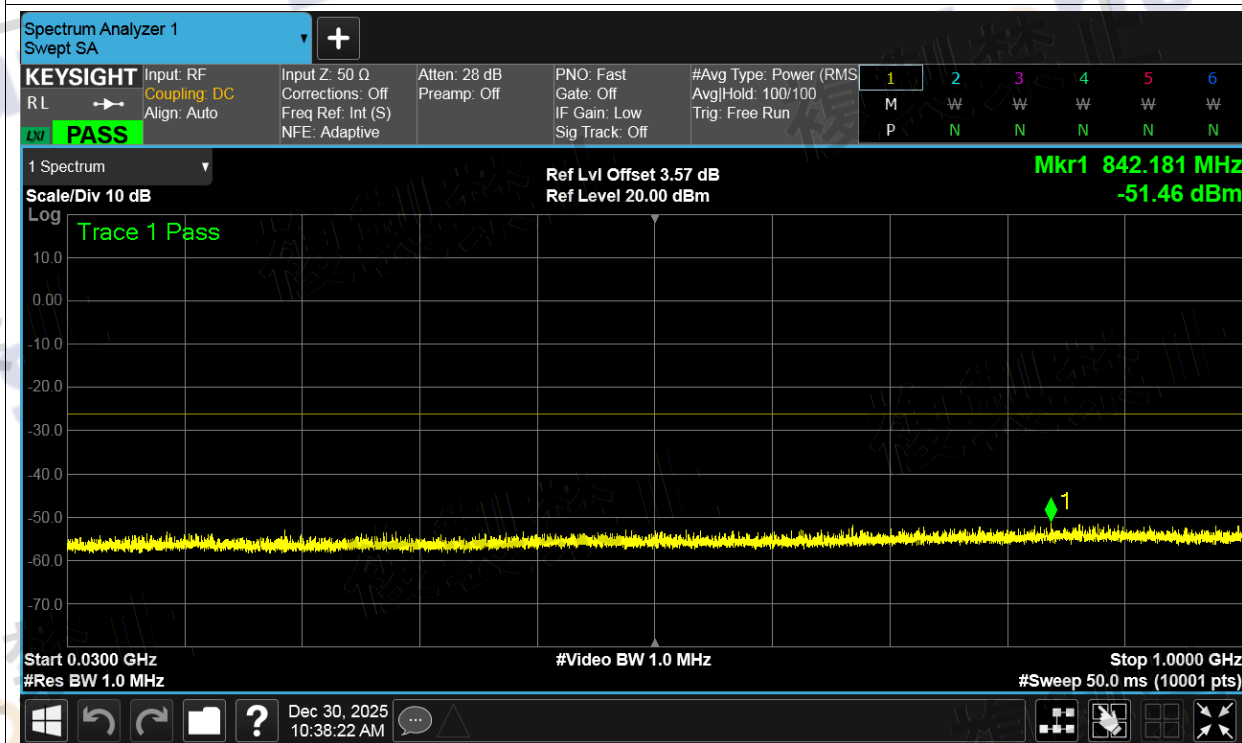
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



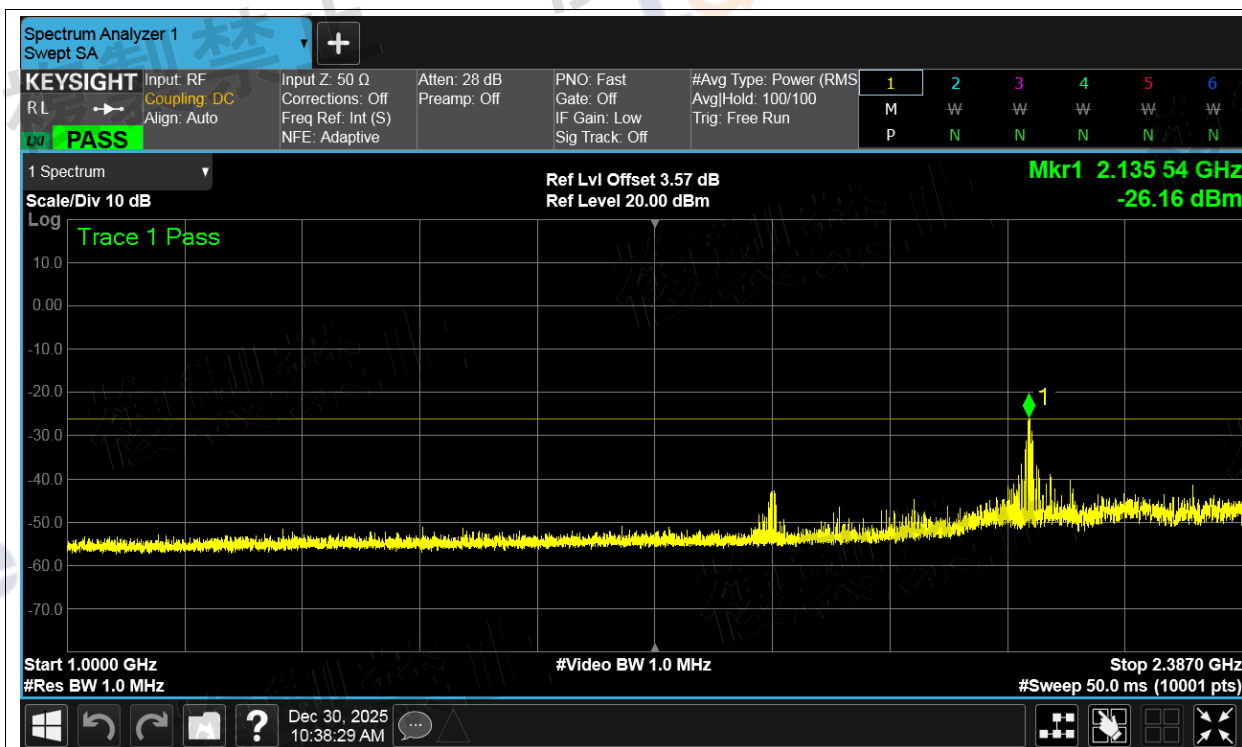
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2496.5MHz-13000MHz



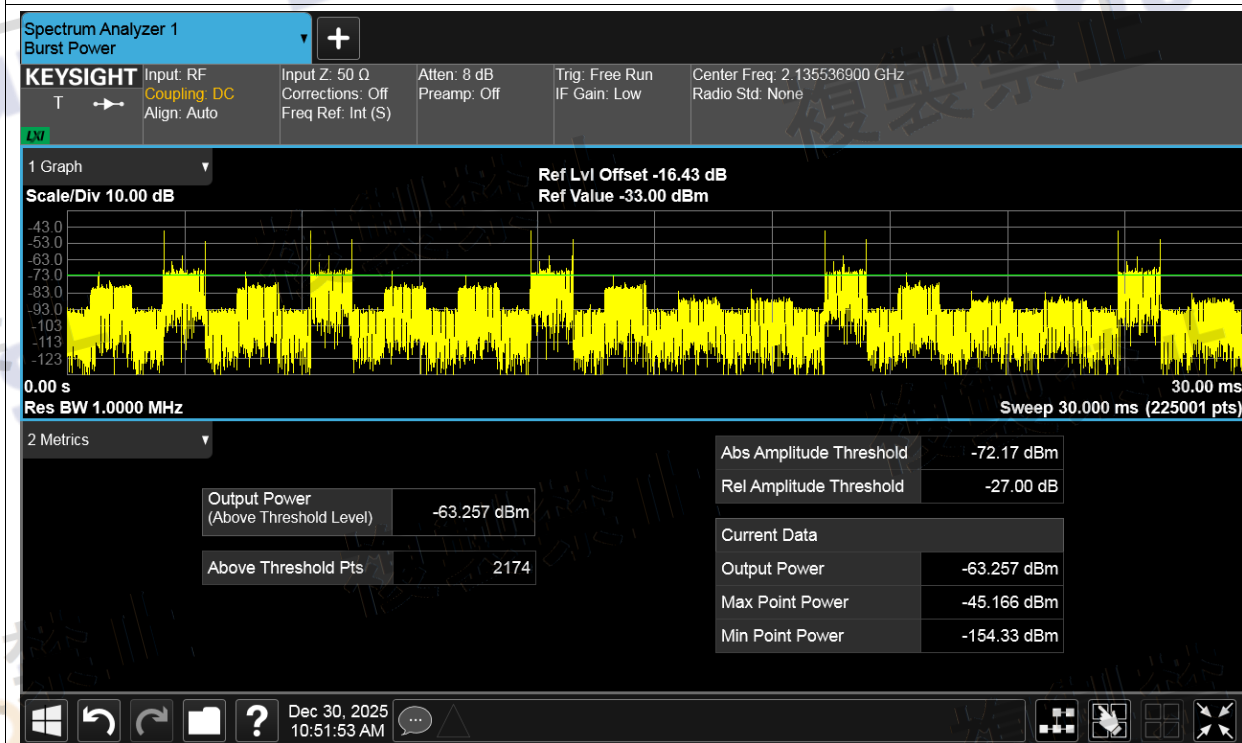
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 30MHz-1000MHz



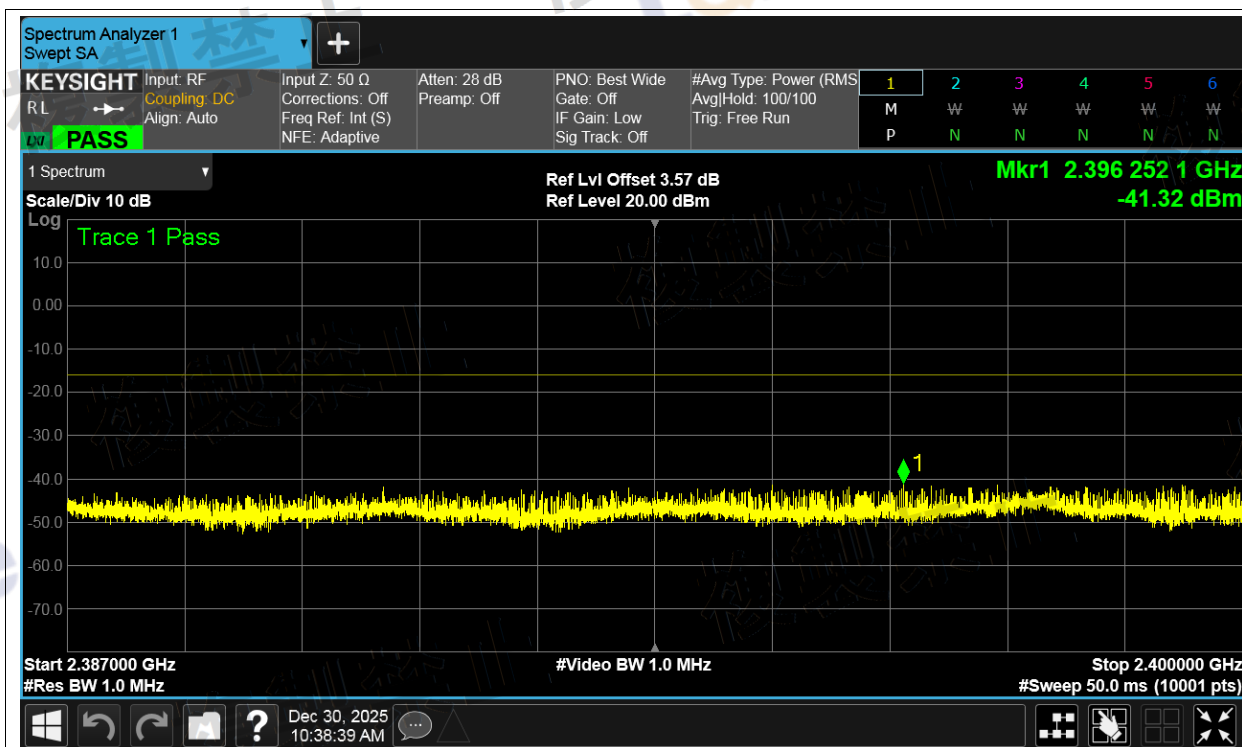
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-2387MHz



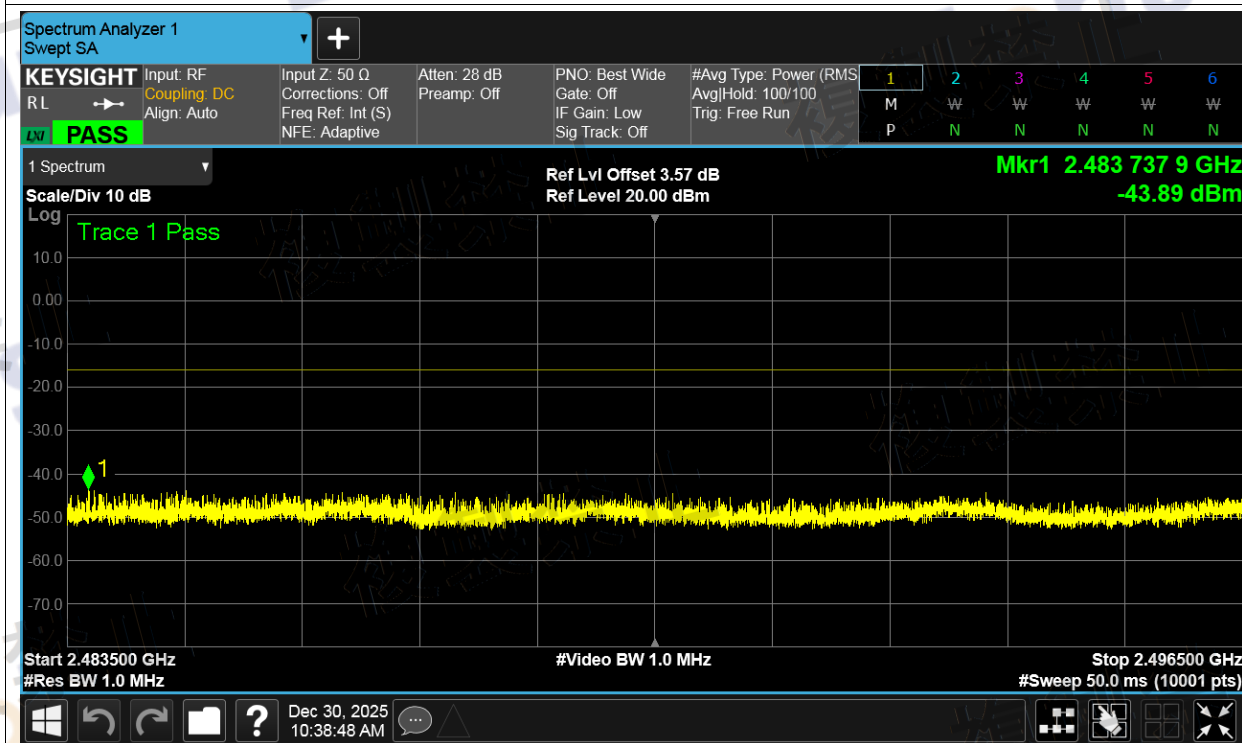
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-2387MHz Final



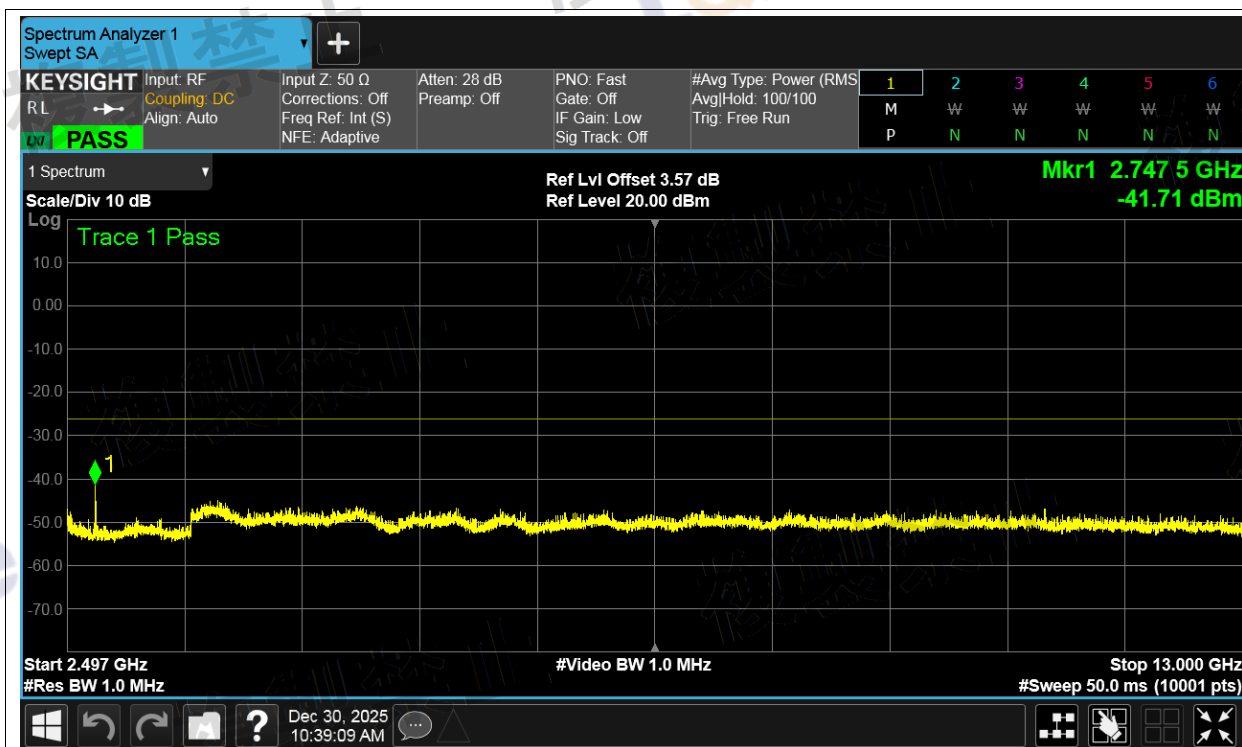
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2387MHz-2400MHz



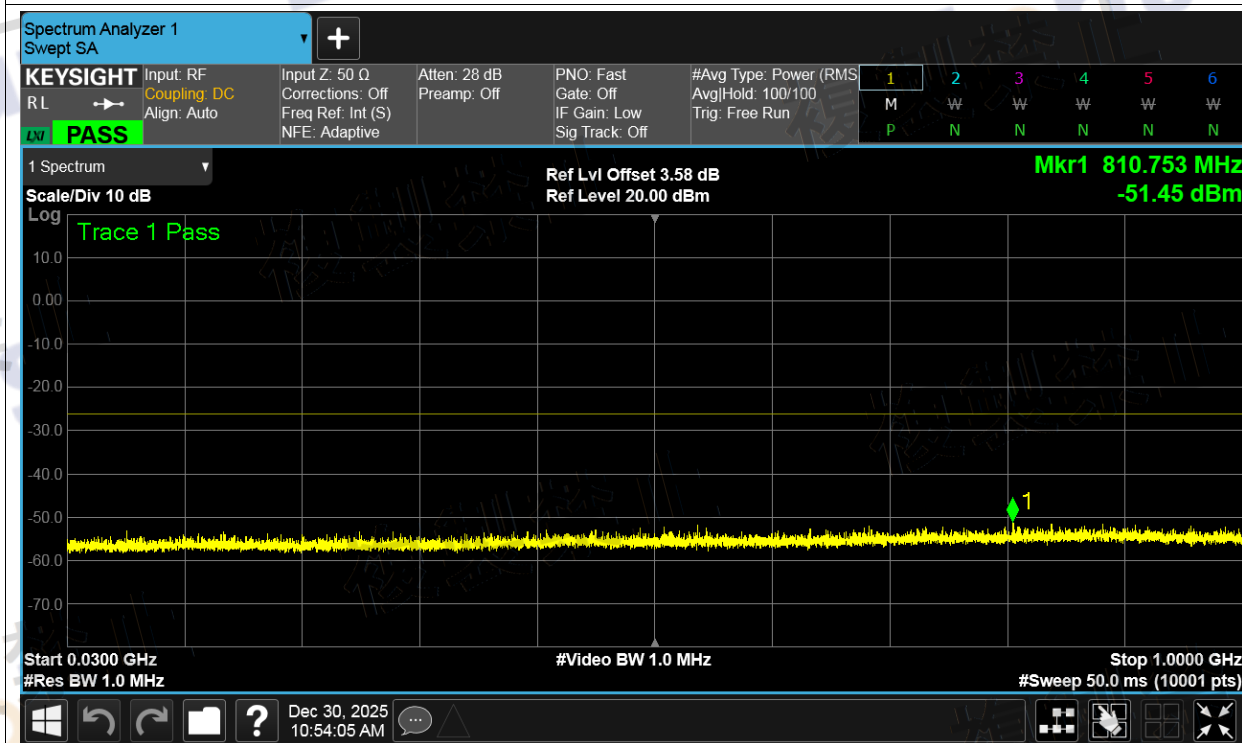
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



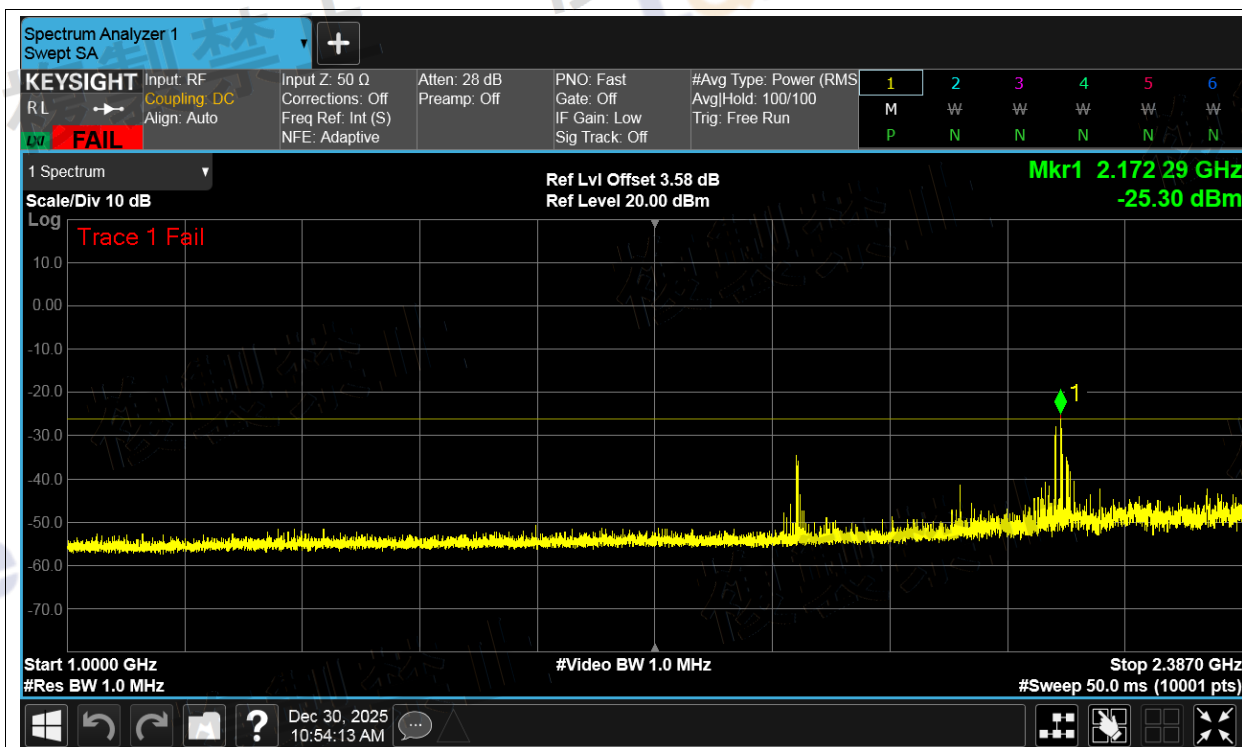
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2496.5MHz-13000MHz



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 30MHz-1000MHz



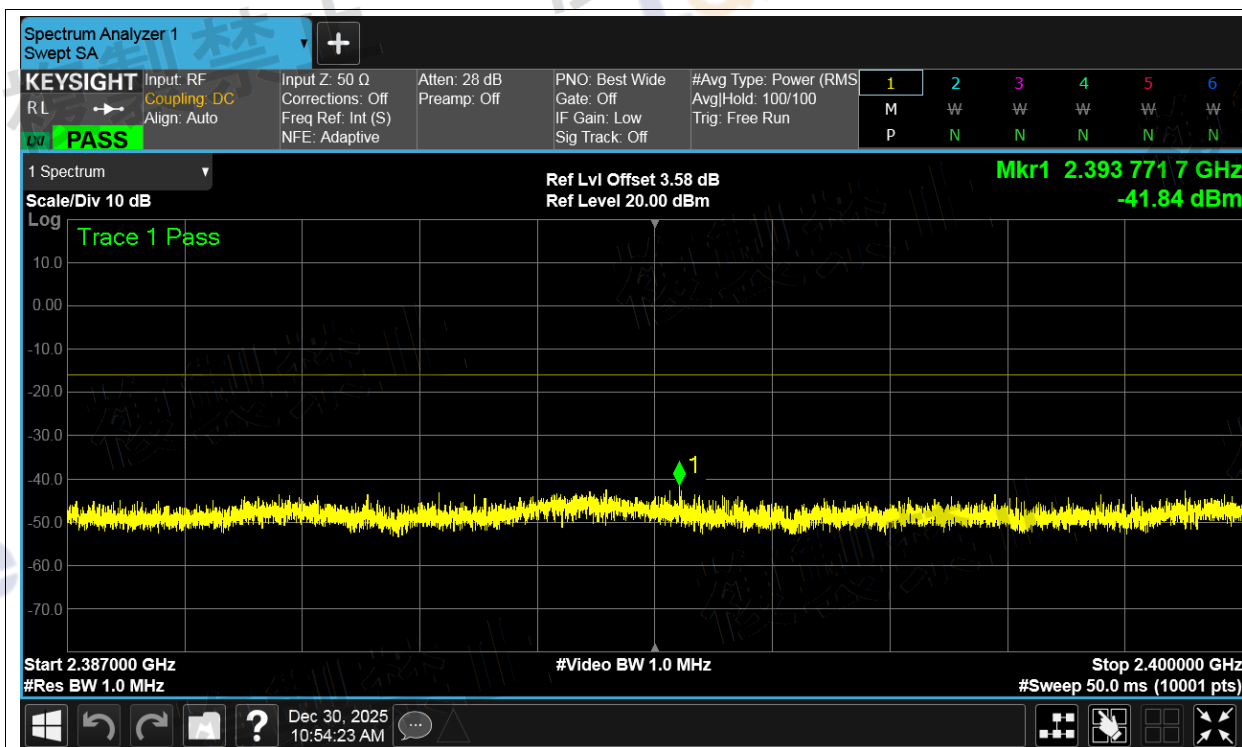
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-2387MHz



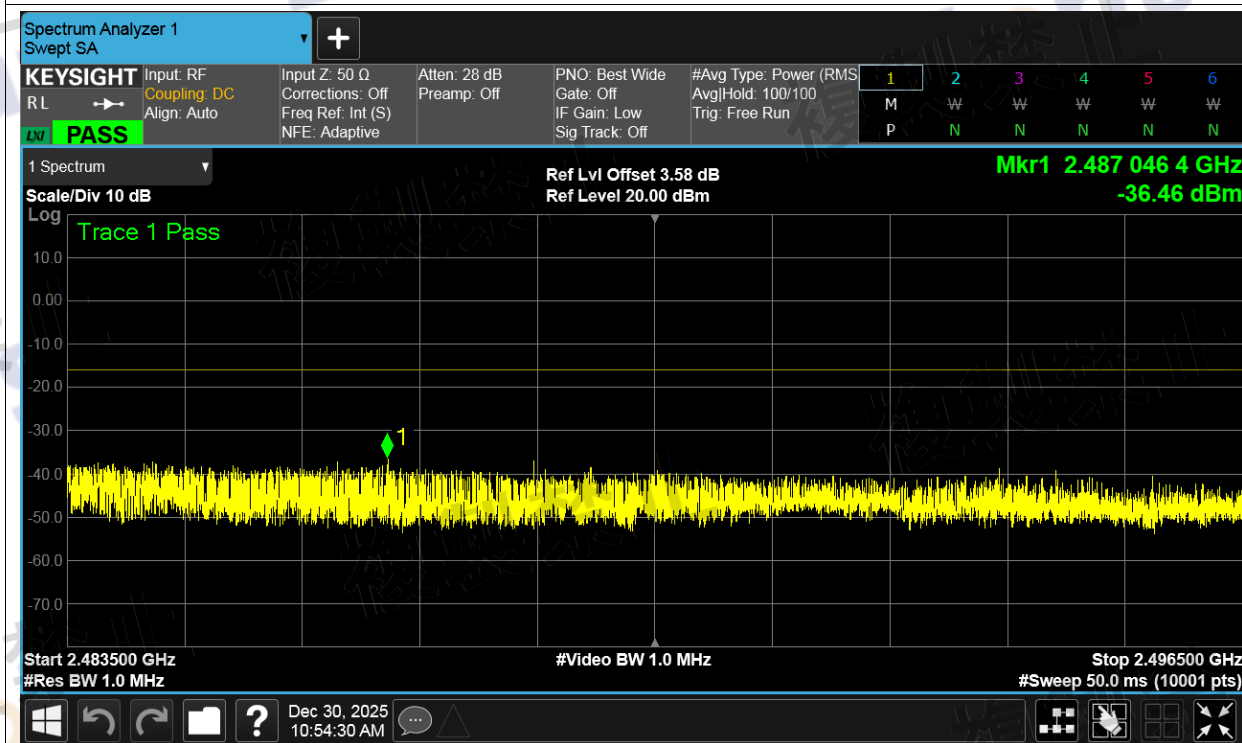
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-2387MHz Final



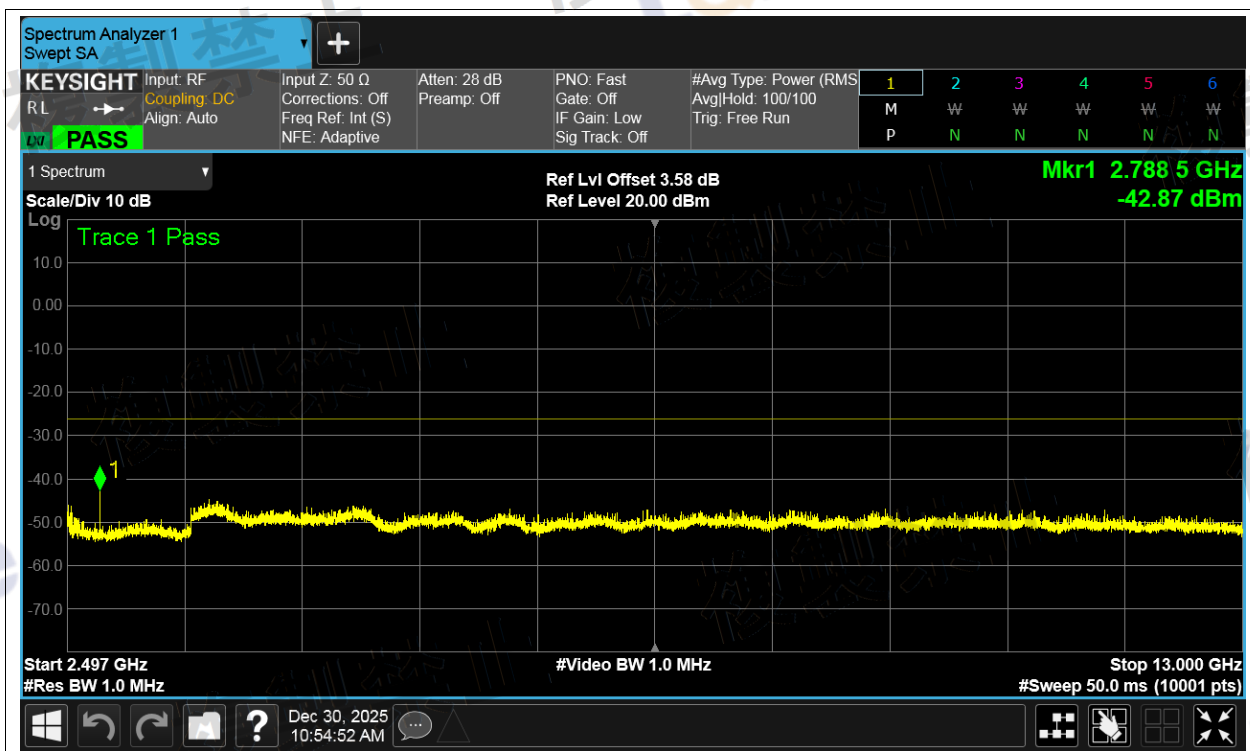
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2387MHz-2400MHz



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2496.5MHz-13000MHz

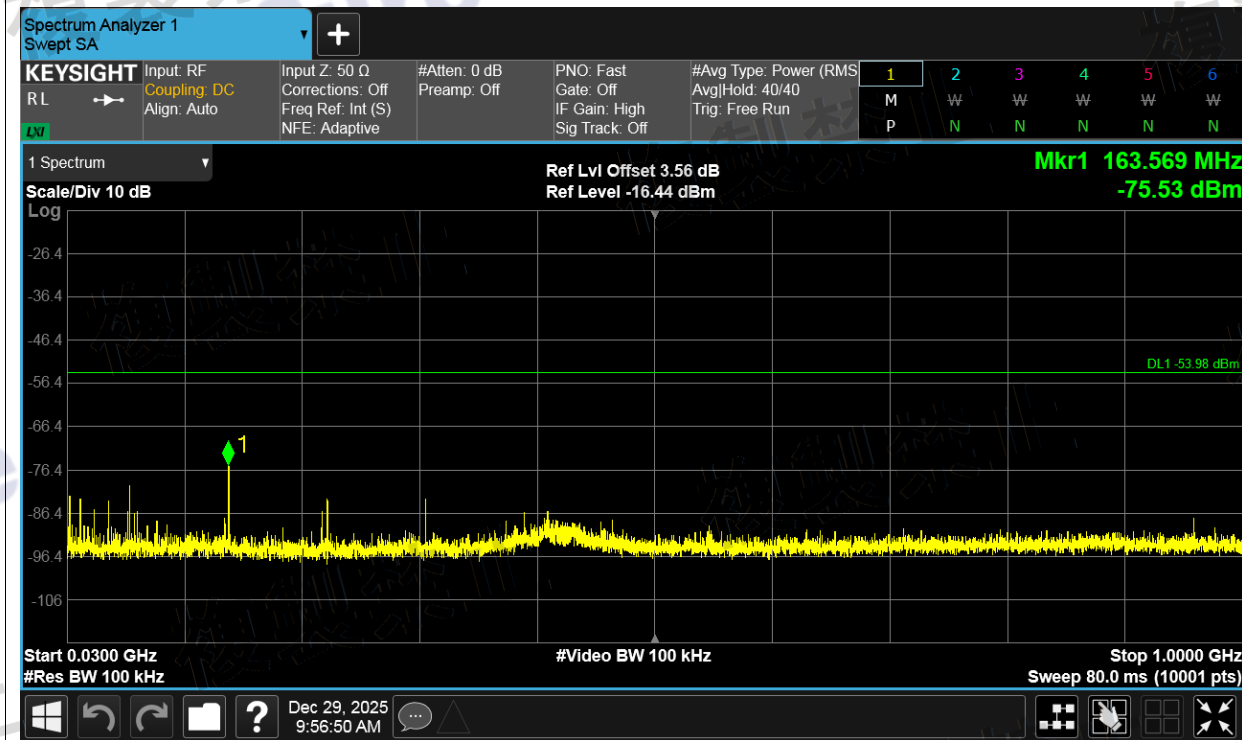


Secondary Radiated Emissions

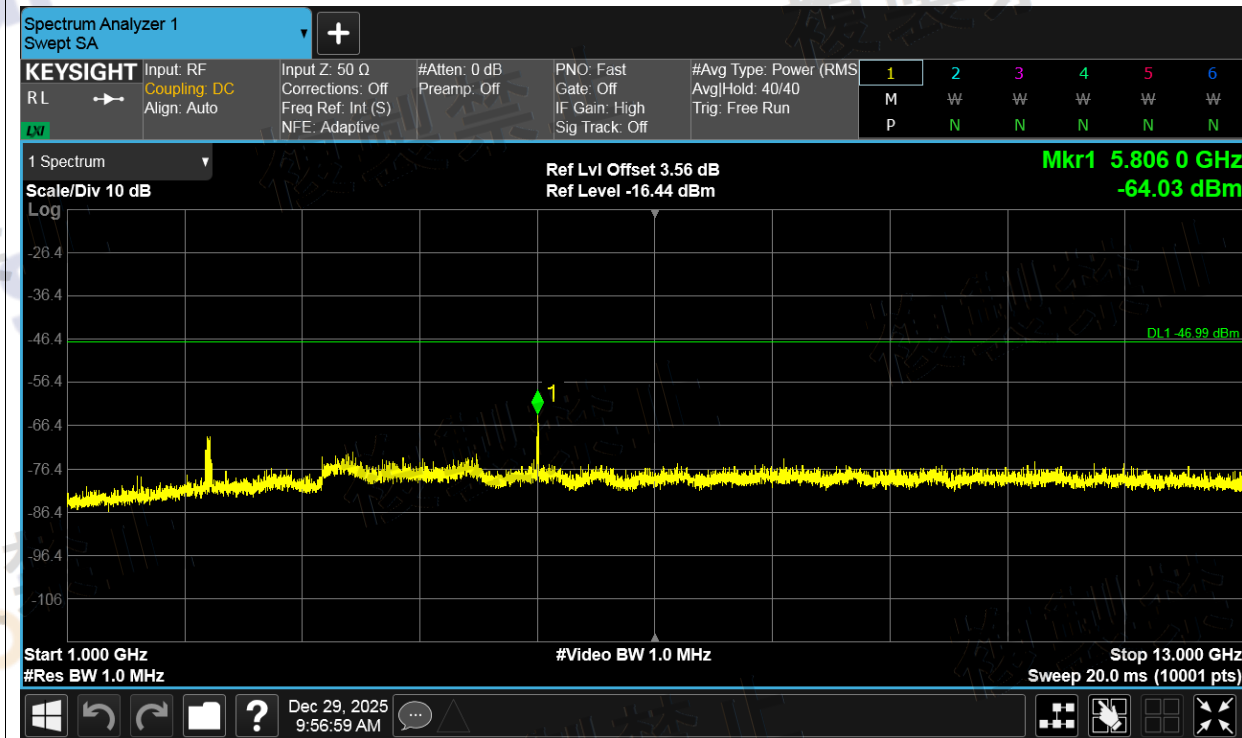
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
NVNT	BLE 1M	2402	Ant1	30-1000	163.57	-75.53	NA	0.028	NA	4	Pass
NVNT	BLE 1M	2402	Ant1	1000-13000	5806.00	-64.03	NA	0.3954	NA	20	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	165.41	-75.88	NA	0.0258	NA	4	Pass
NVNT	BLE 1M	2440	Ant1	1000-13000	2446.00	-57.72	NA	1.6904	NA	20	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	168.13	-76.83	NA	0.0207	NA	4	Pass
NVNT	BLE 1M	2480	Ant1	1000-13000	2402.80	-63.19	NA	0.4797	NA	20	Pass
NVNT	BLE 2M	2402	Ant1	30-1000	162.79	-75.55	NA	0.0279	NA	4	Pass
NVNT	BLE 2M	2402	Ant1	1000-13000	2442.40	-60.30	NA	0.9333	NA	20	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	168.03	-76.07	NA	0.0247	NA	4	Pass
NVNT	BLE 2M	2440	Ant1	1000-13000	2474.80	-57.39	NA	1.8239	NA	20	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	168.03	-76.41	NA	0.0229	NA	4	Pass
NVNT	BLE 2M	2480	Ant1	1000-13000	2458.00	-63.44	NA	0.4529	NA	20	Pass

Test Graphs

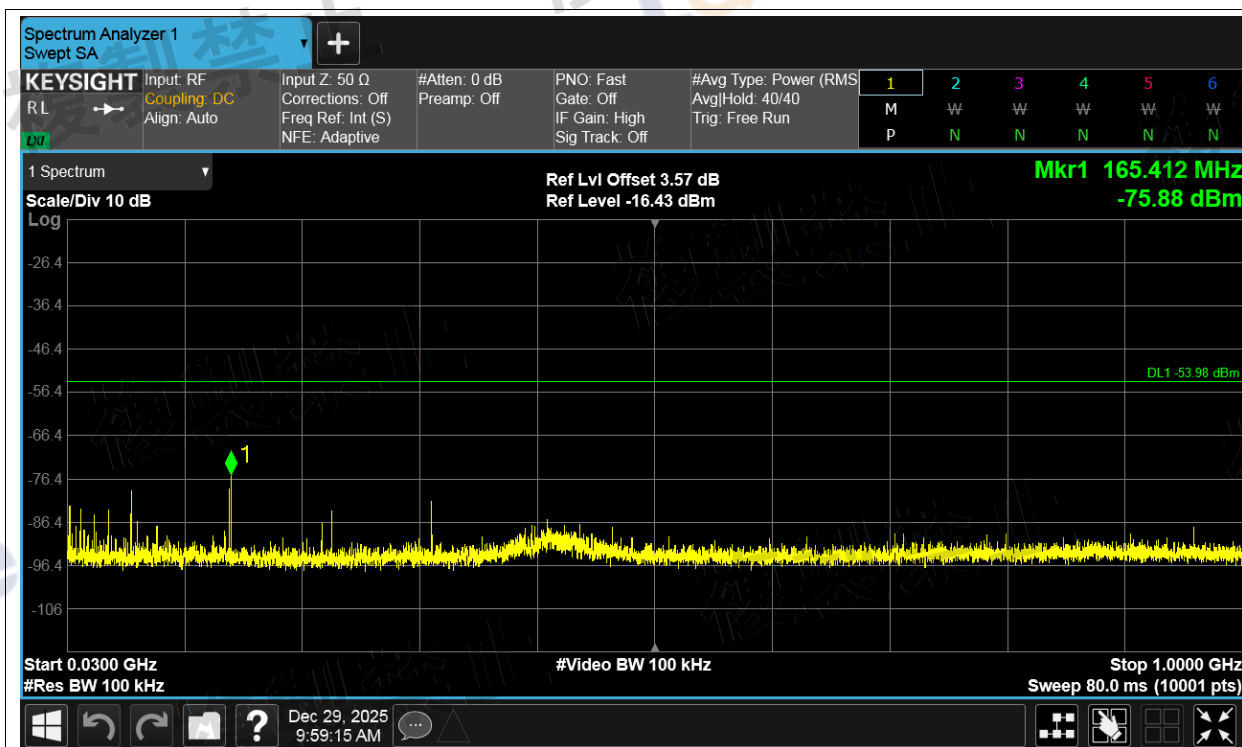
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



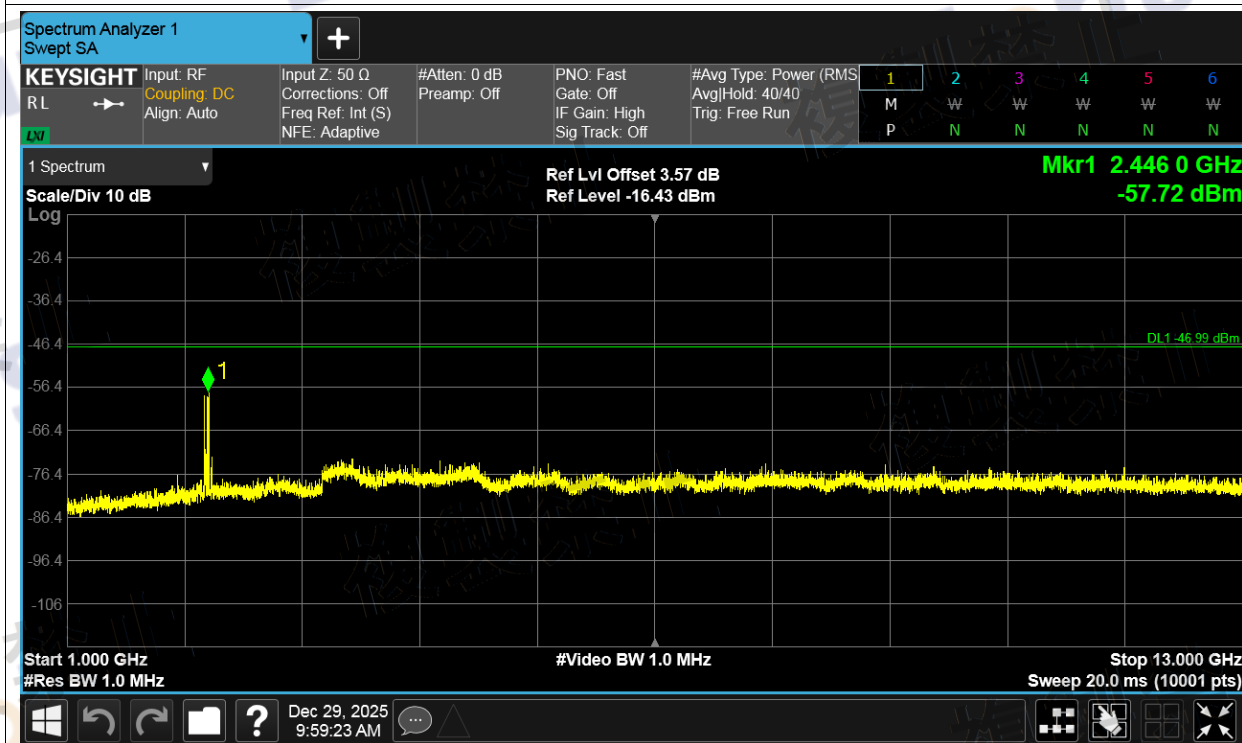
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-13000MHz



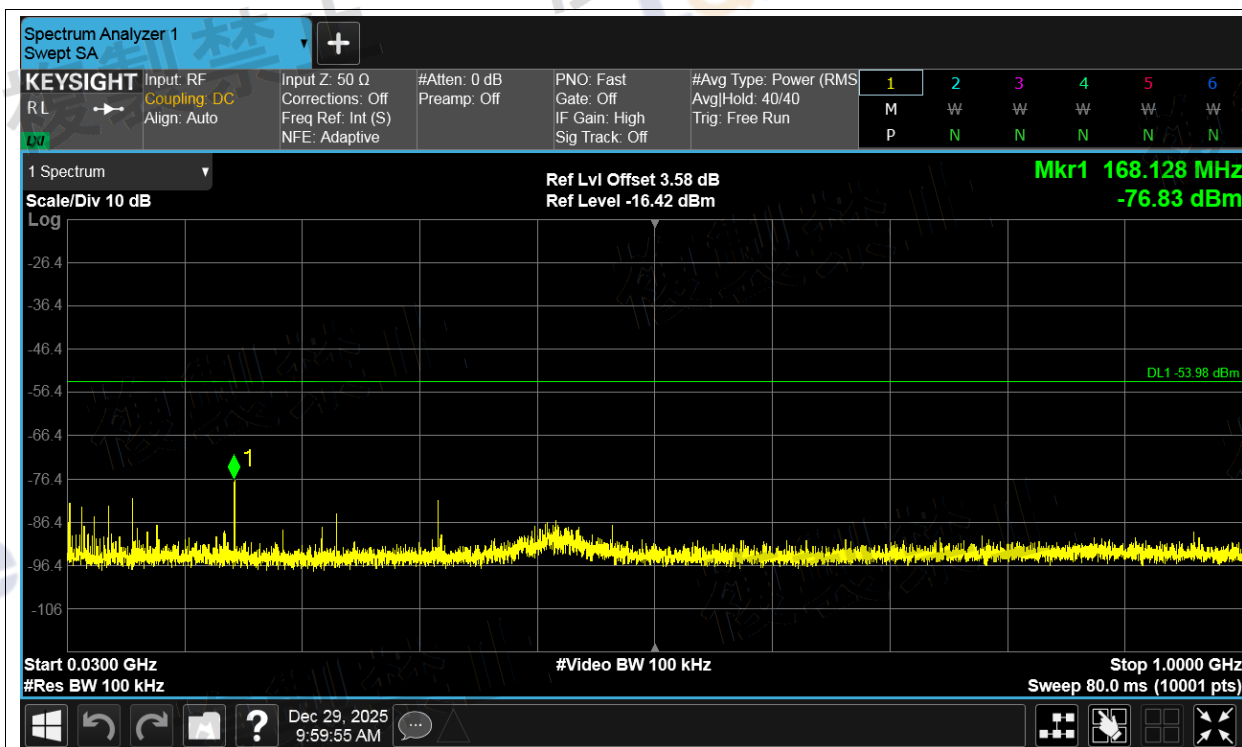
Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



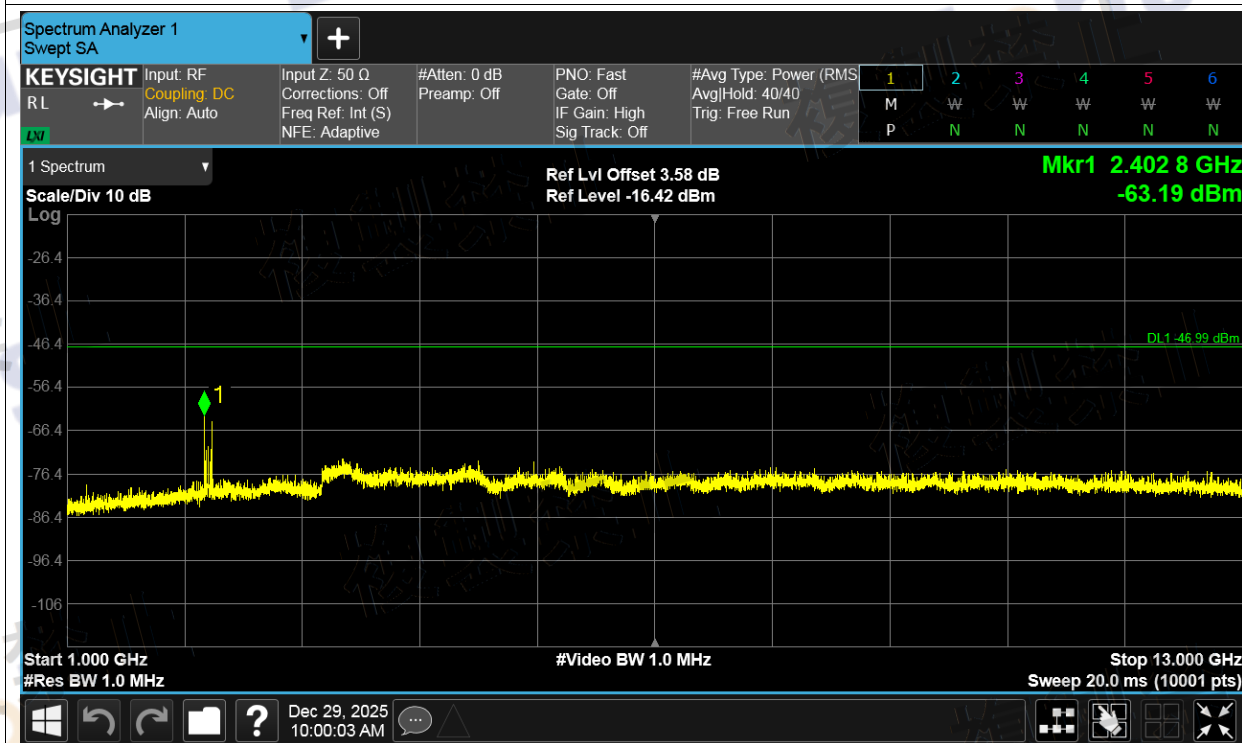
Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-13000MHz



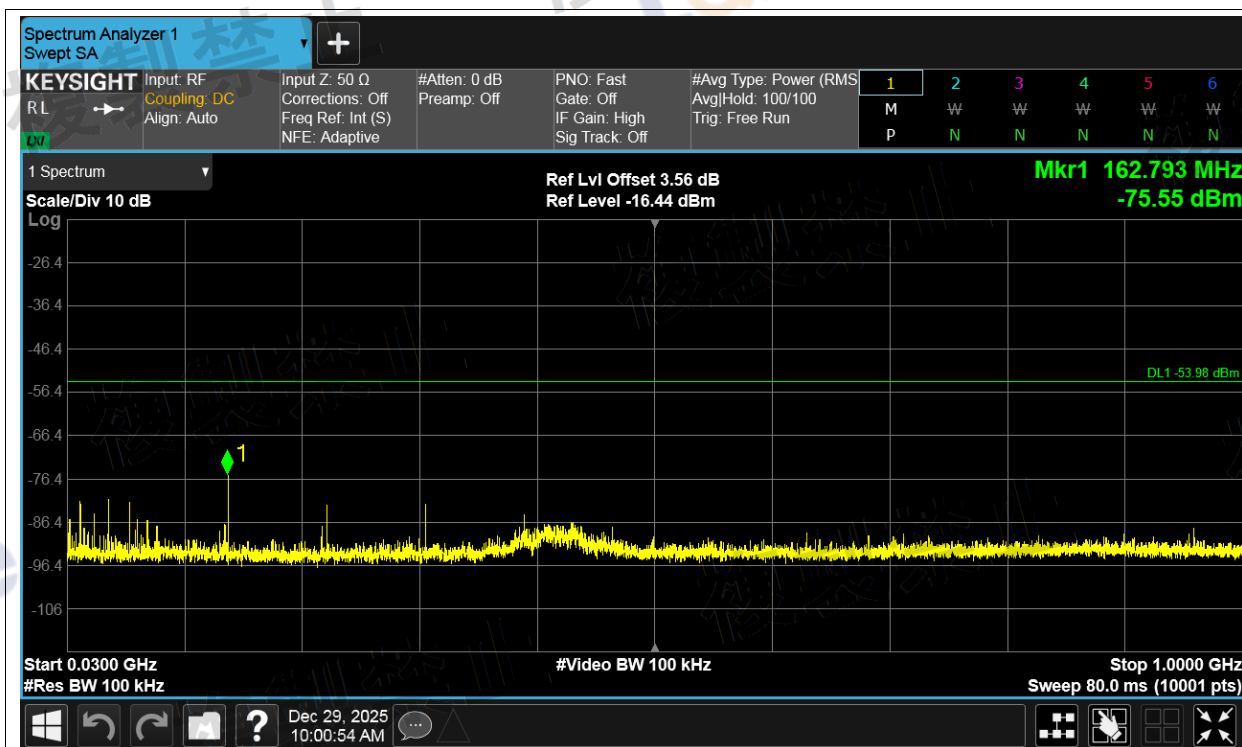
Rx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 30MHz-1000MHz



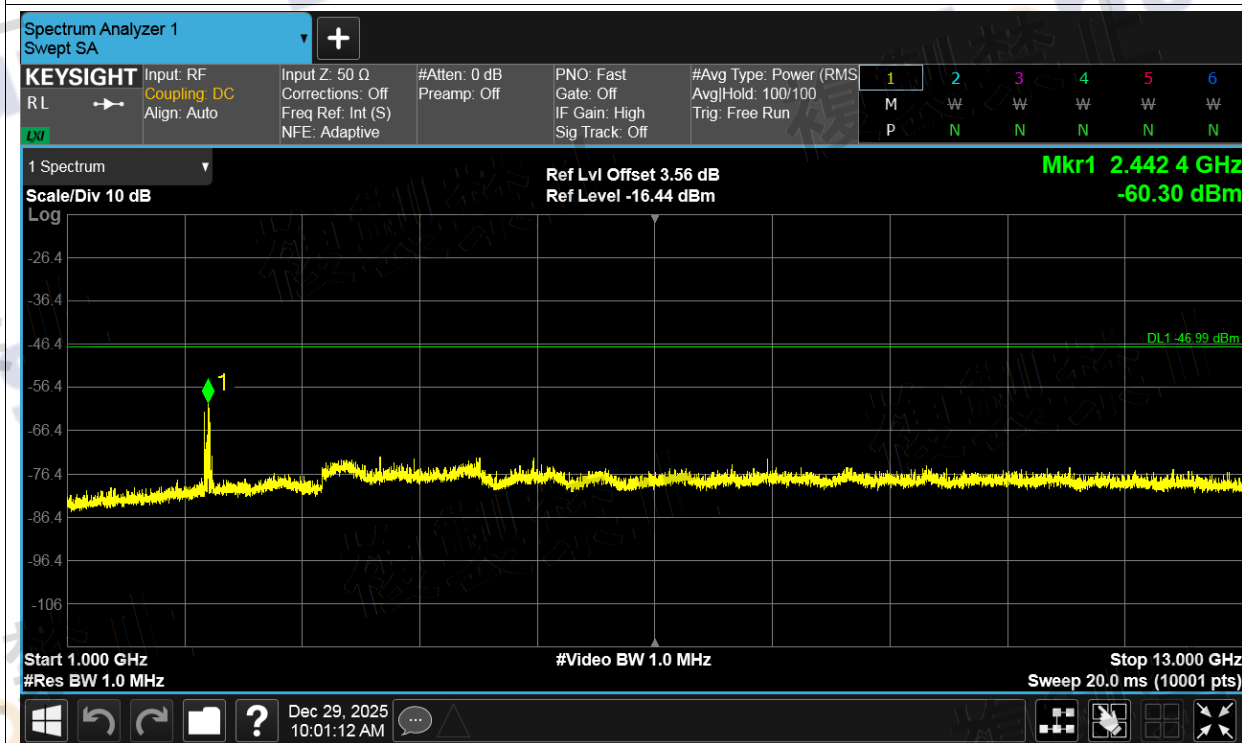
Rx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 1000MHz-13000MHz



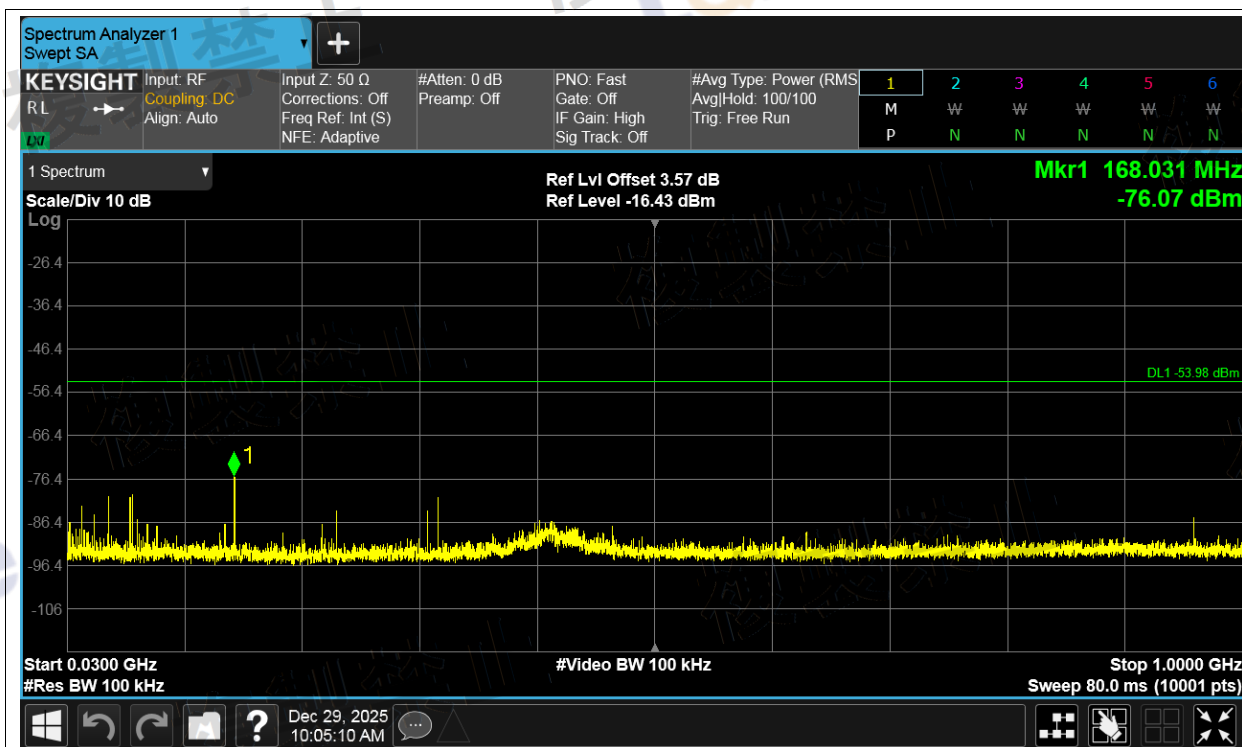
Rx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 30MHz-1000MHz



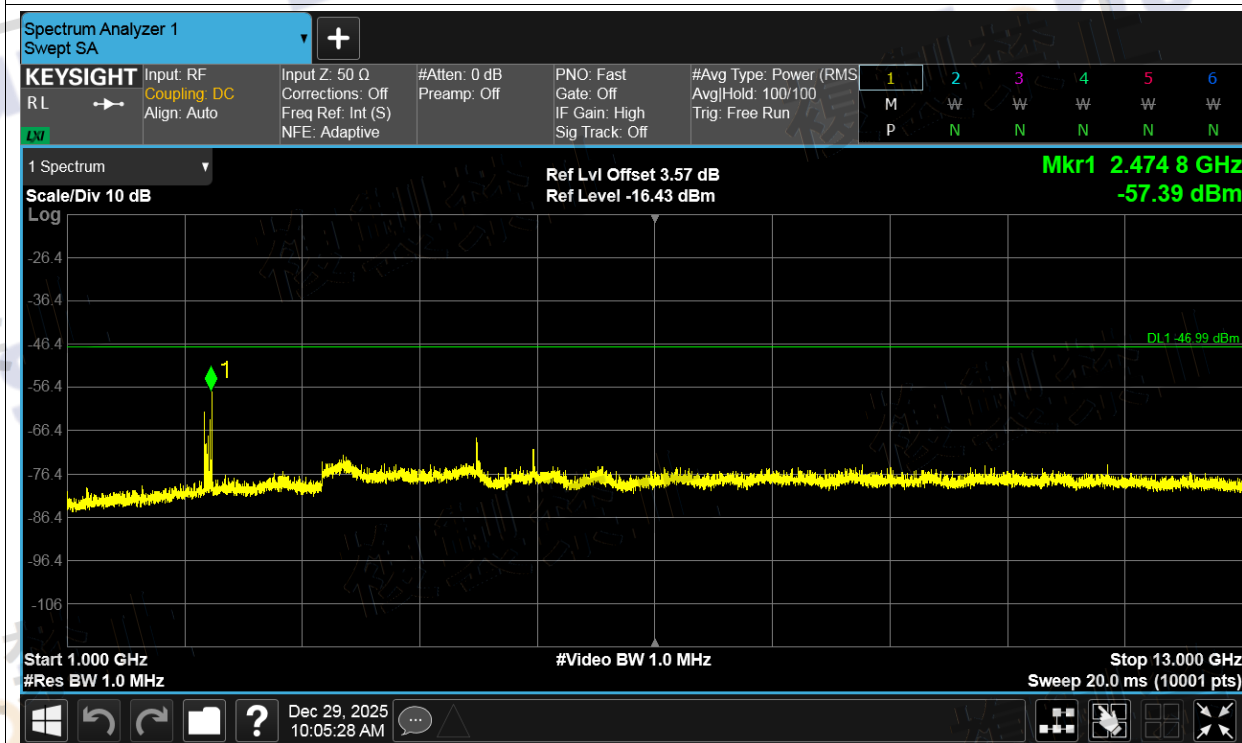
Rx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-13000MHz



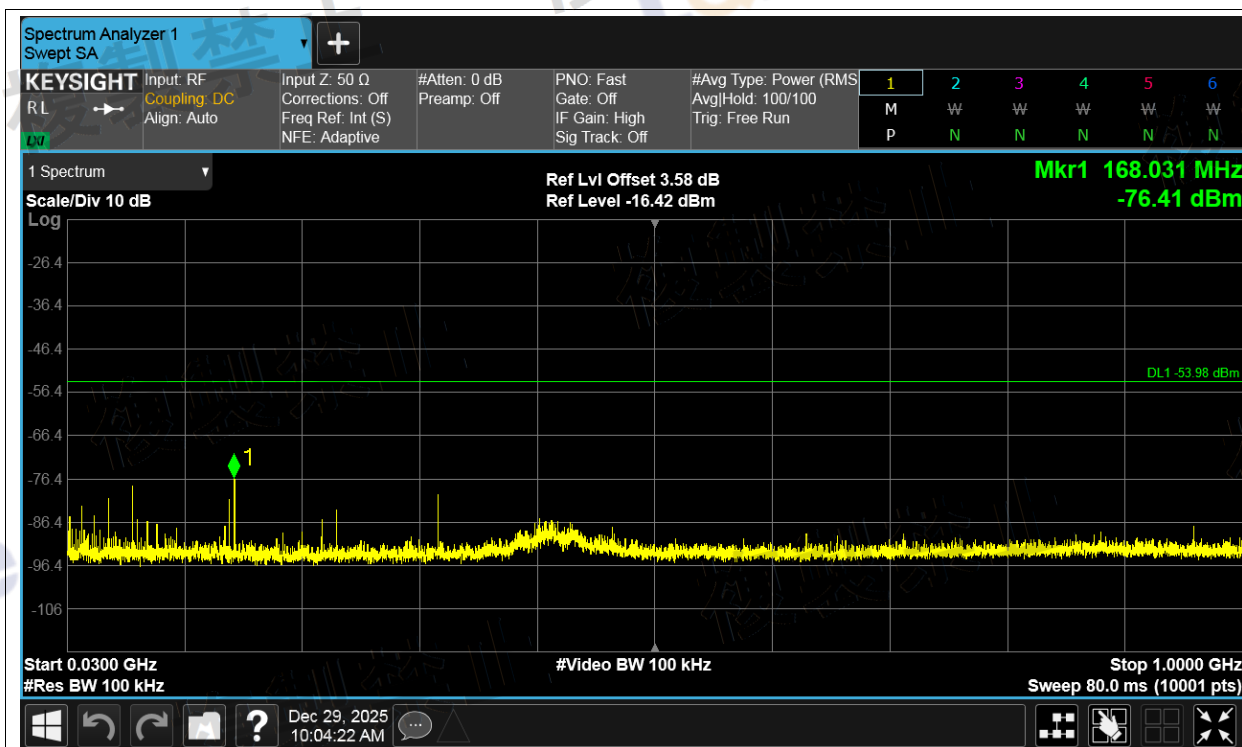
Rx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-13000MHz



Rx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-13000MHz

