

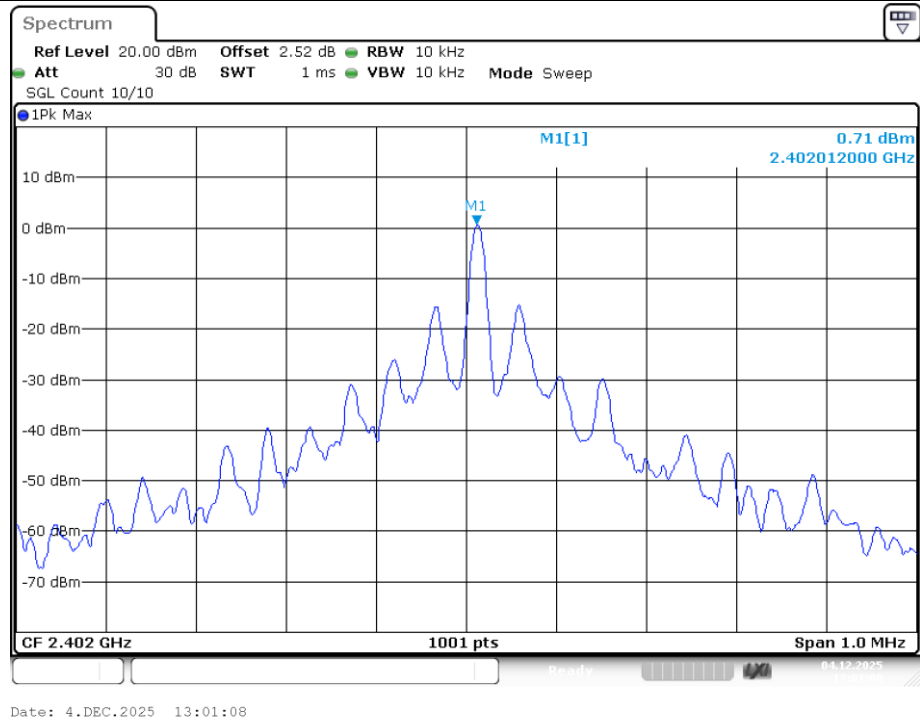
Appendix B

Frequency Error

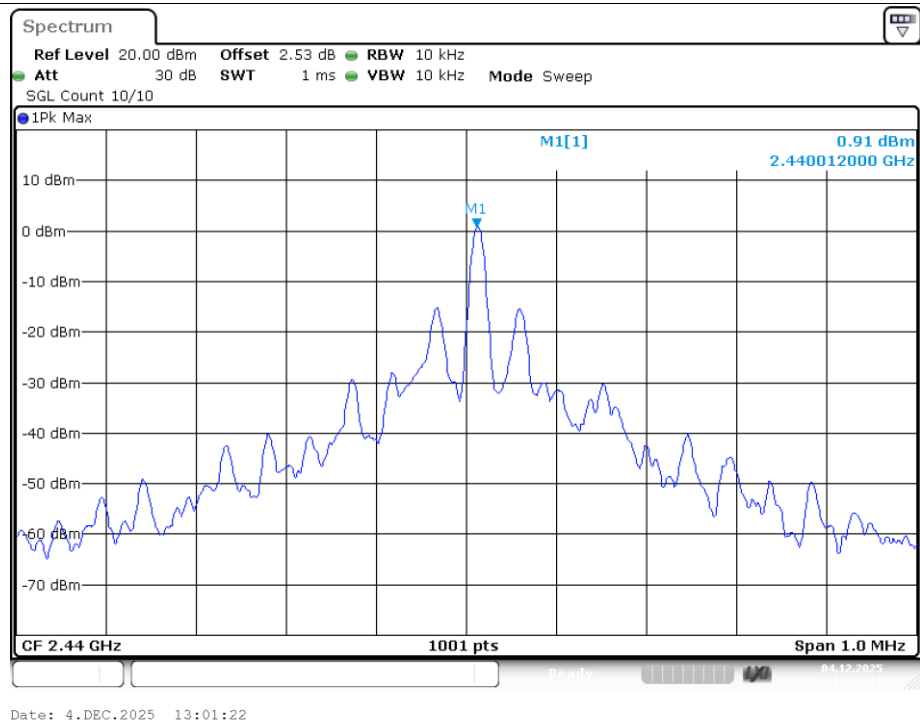
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	BLE 1M	2402	Ant1	2402.012	12000	5	50	Pass
NVNT	BLE 1M	2440	Ant1	2440.012	12000	4.92	50	Pass
NVNT	BLE 1M	2480	Ant1	2480.013	13000	5.24	50	Pass

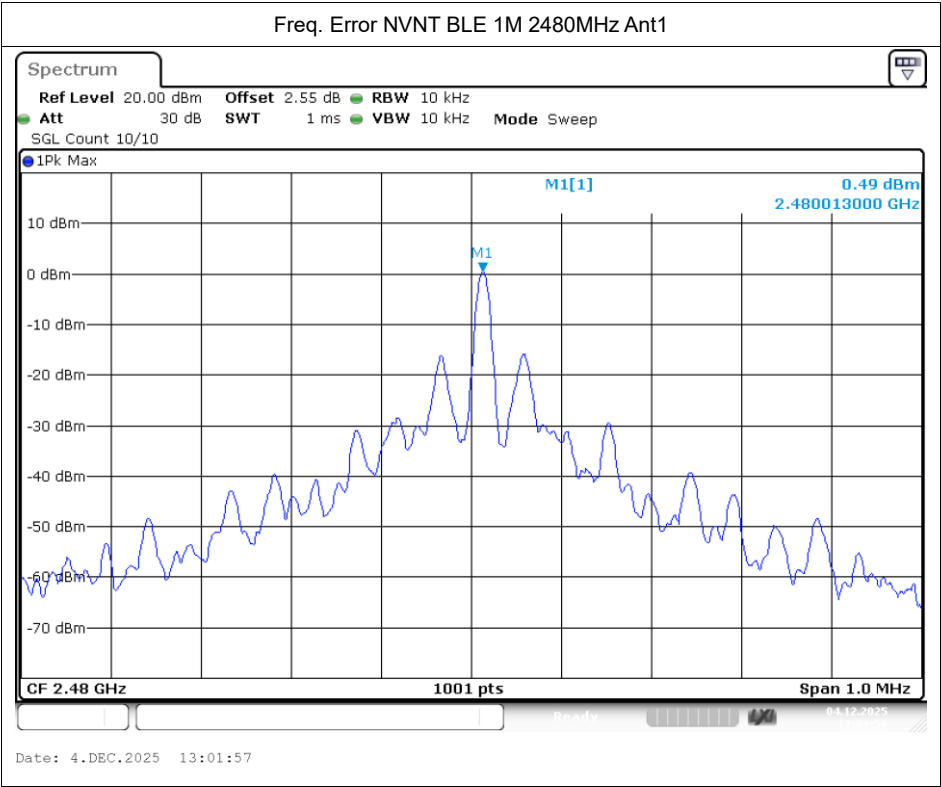
Test Graphs

Freq. Error NVNT BLE 1M 2402MHz Ant1



Freq. Error NVNT BLE 1M 2440MHz Ant1



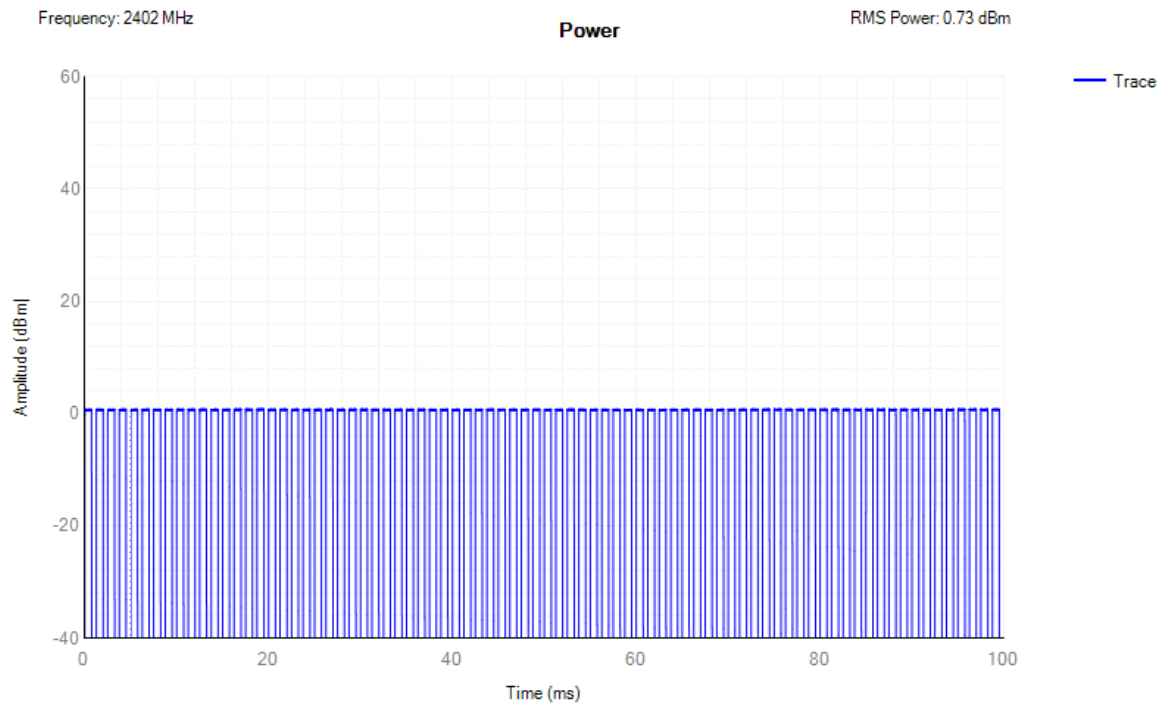


Antenna Power

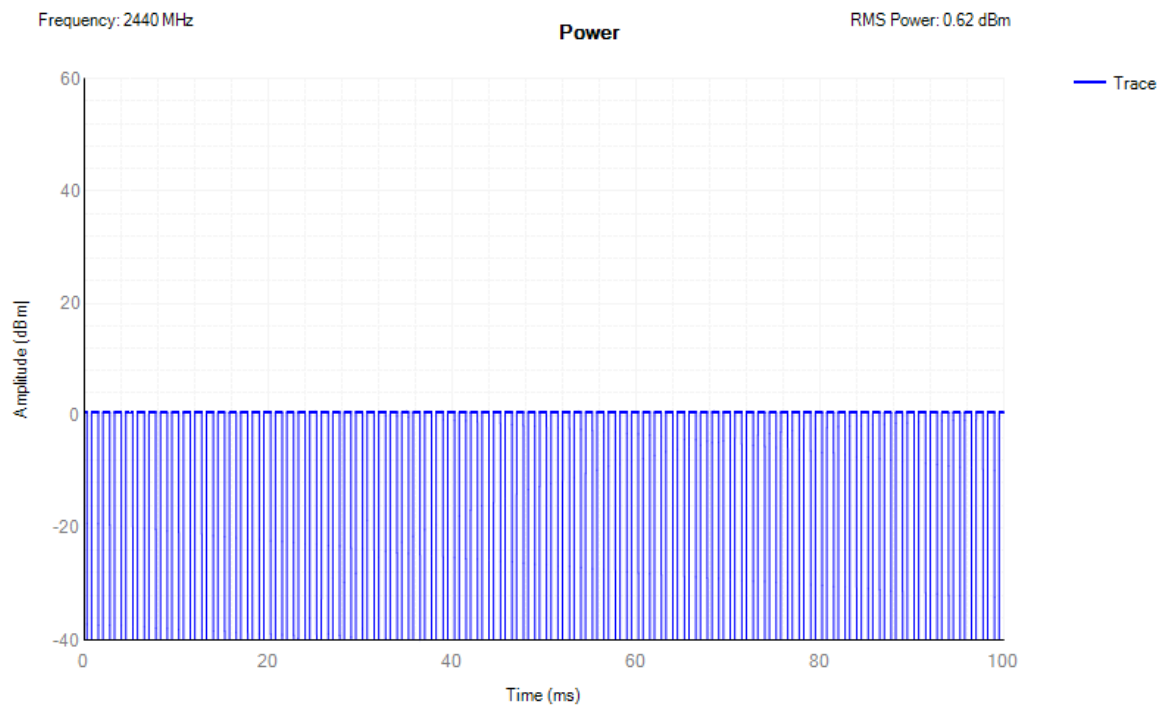
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Antenna Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	BLE 1M	2402	Ant1	0.73	1.183	10	2	-40.85	20	Pass
NVNT	BLE 1M	2440	Ant1	0.62	1.153	10	2	-42.35	20	Pass
NVNT	BLE 1M	2480	Ant1	-0.17	0.962	10	2	-51.9	20	Pass
NVNT	BLE 2M	2402	Ant1	0.62	1.153	10	2	-42.35	20	Pass
NVNT	BLE 2M	2440	Ant1	0.62	1.153	10	2	-42.35	20	Pass
NVNT	BLE 2M	2480	Ant1	0.35	1.084	10	2	-45.8	20	Pass

Test Graphs

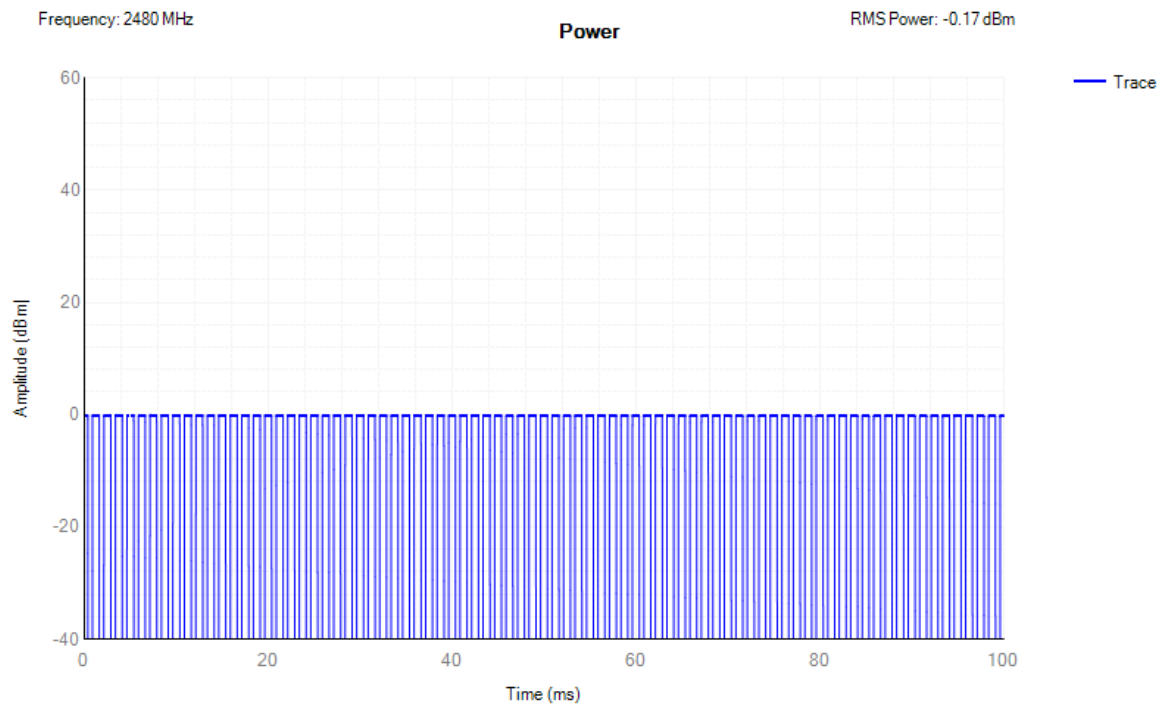
Power NVNT BLE 1M 2402 MHz Ant1



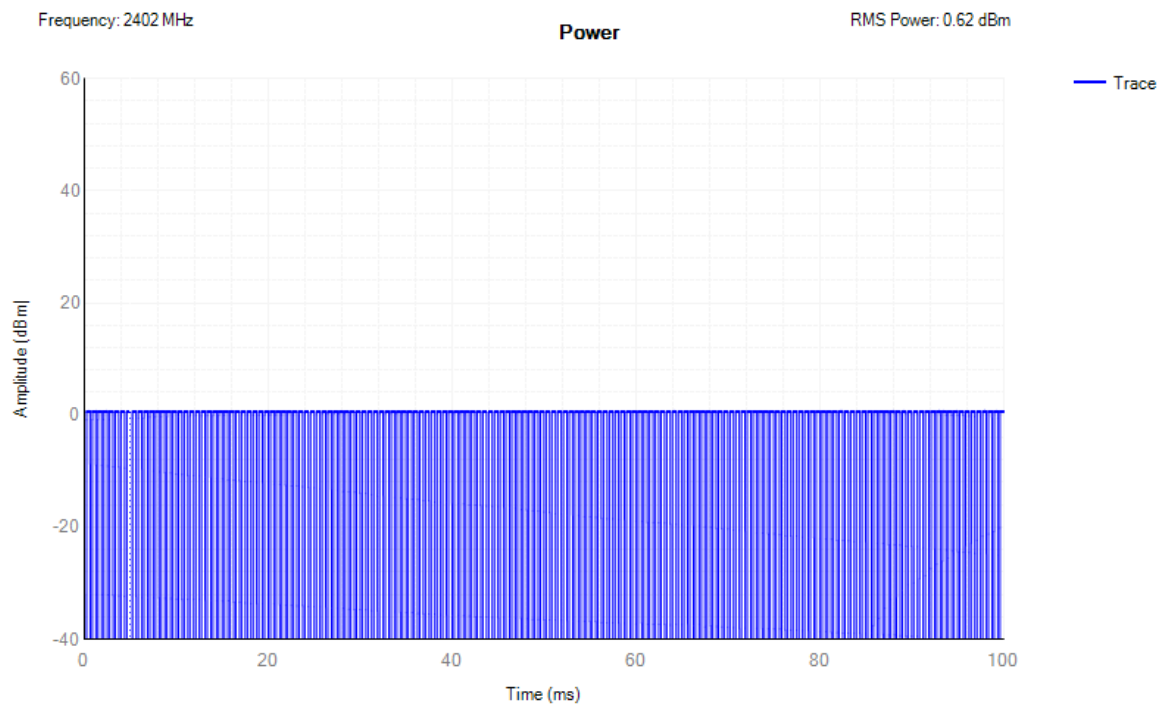
Power NVNT BLE 1M 2440 MHz Ant1



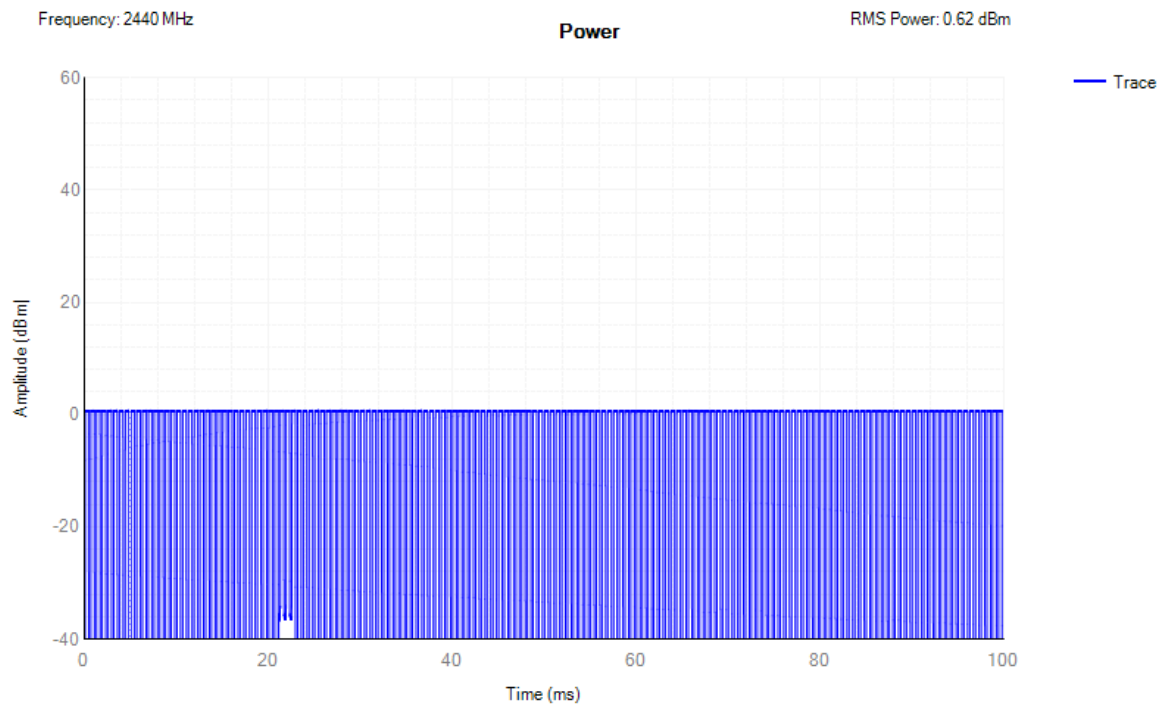
Power NVNT BLE 1M 2480 MHz Ant1



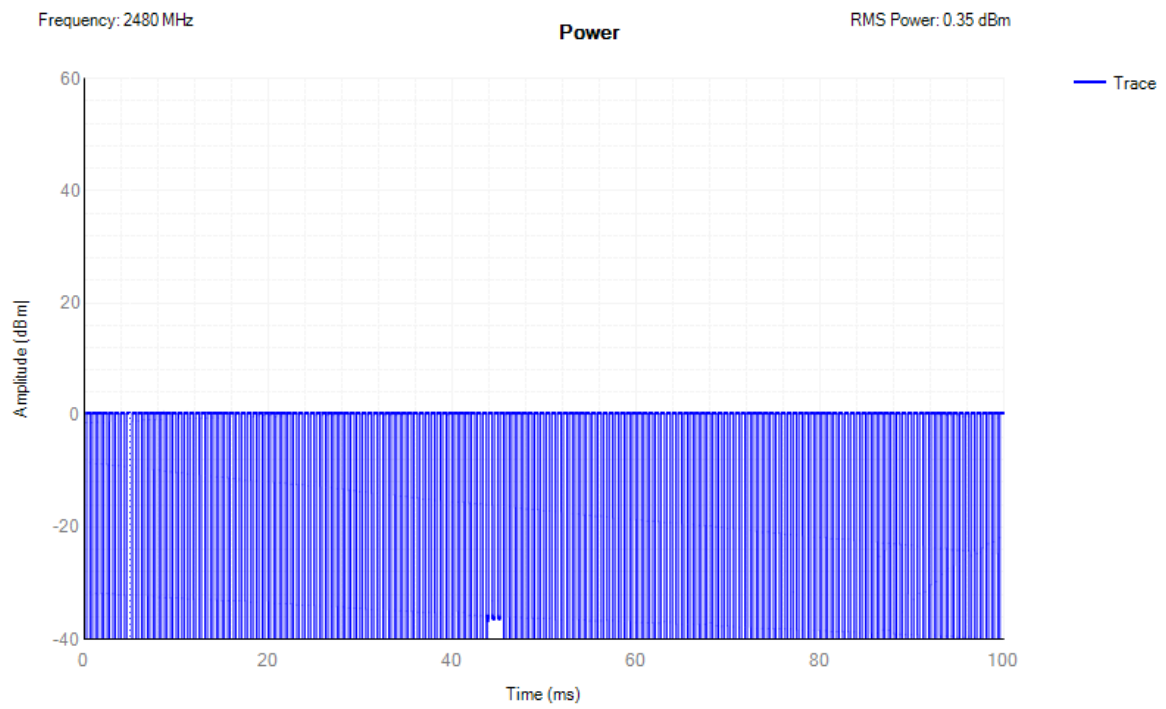
Power NVNT BLE 2M 2402 MHz Ant1



Power NVNT BLE 2M 2440 MHz Ant1



Power NVNT BLE 2M 2480 MHz Ant1



EIRP Power

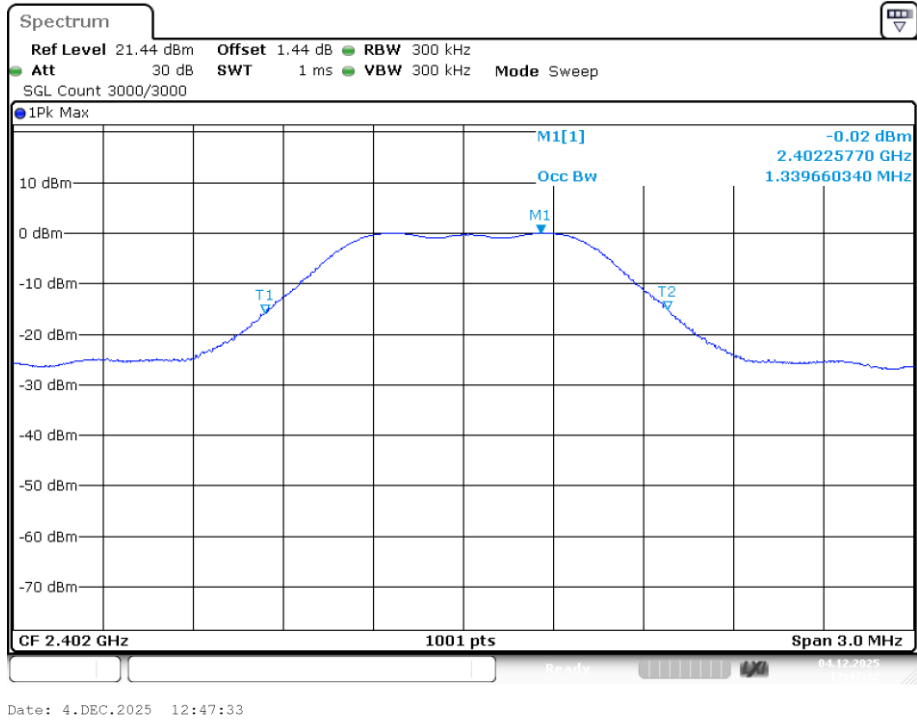
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.73	1.08	1.81	12.14	Pass
NVNT	BLE 1M	2440	Ant1	0.62	1.08	1.7	12.14	Pass
NVNT	BLE 1M	2480	Ant1	-0.17	1.08	0.91	12.14	Pass
NVNT	BLE 2M	2402	Ant1	0.62	1.08	1.7	12.14	Pass
NVNT	BLE 2M	2440	Ant1	0.62	1.08	1.7	12.14	Pass
NVNT	BLE 2M	2480	Ant1	0.35	1.08	1.43	12.14	Pass

Occupied Channel Bandwidth

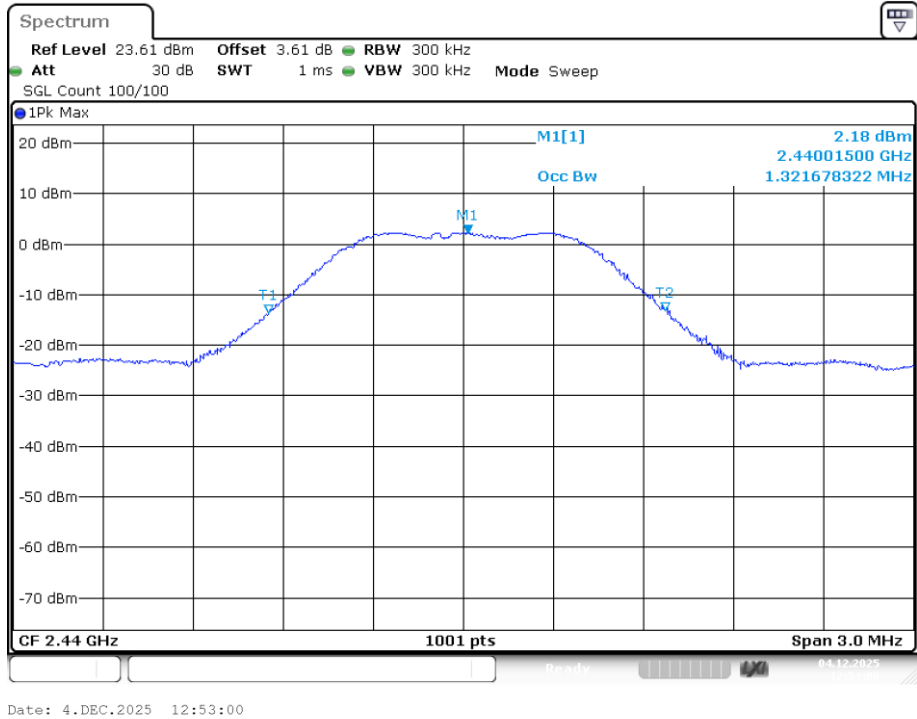
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	Lower Limit (MHz)	Upper Limit (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.34	N/A	26	Pass
NVNT	BLE 1M	2440	Ant1	1.322	N/A	26	Pass
NVNT	BLE 1M	2480	Ant1	1.331	N/A	26	Pass
NVNT	BLE 2M	2402	Ant1	2.248	N/A	26	Pass
NVNT	BLE 2M	2440	Ant1	2.263	N/A	26	Pass
NVNT	BLE 2M	2480	Ant1	2.268	N/A	26	Pass

Test Graphs

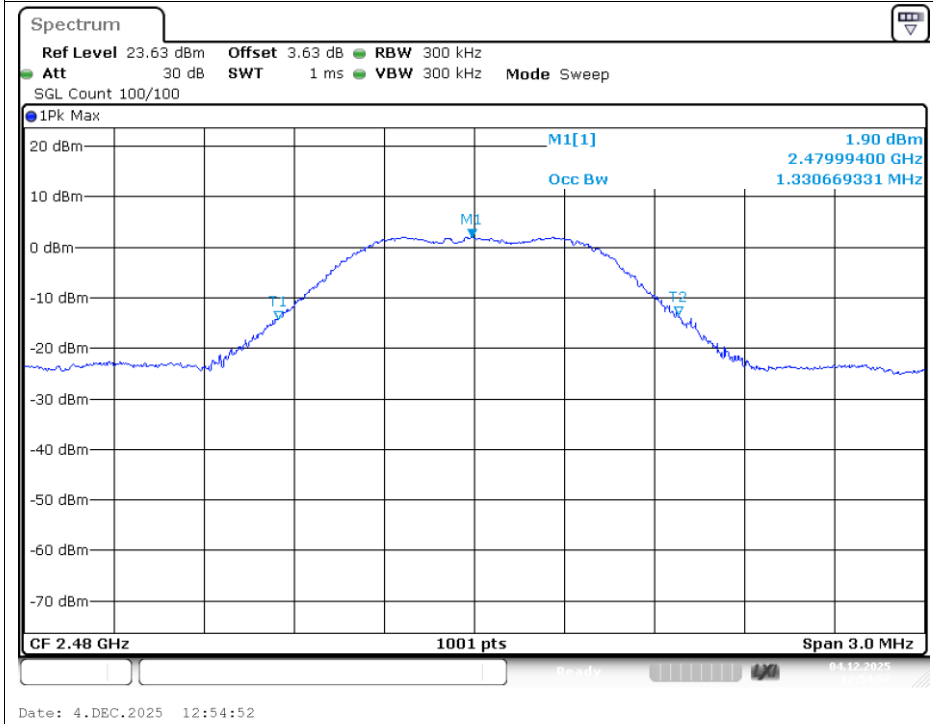
OBW NVNT BLE 1M 2402MHz Ant1



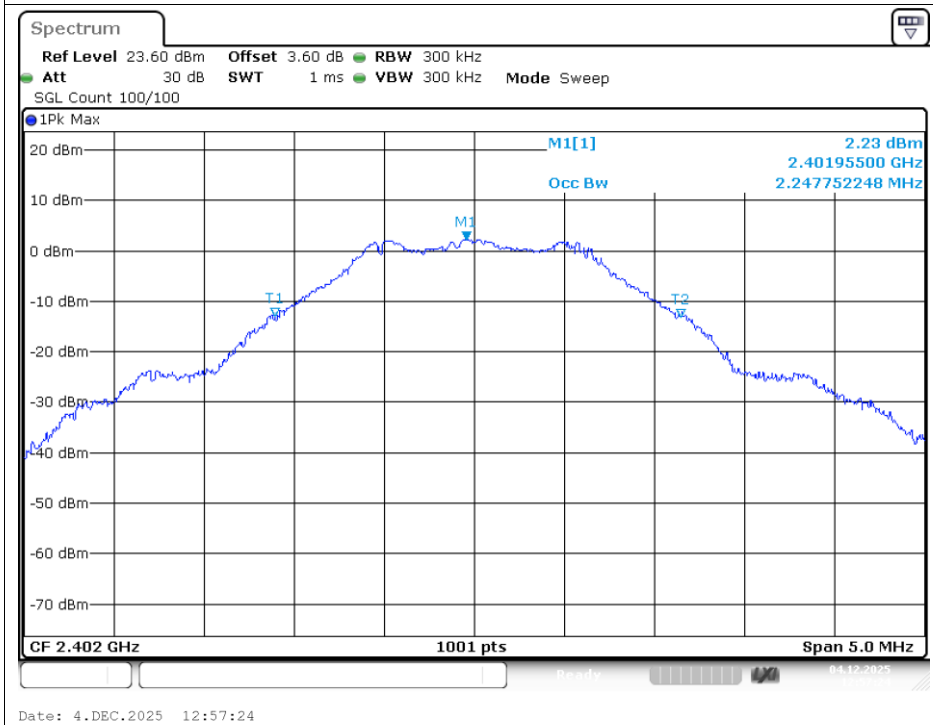
OBW NVNT BLE 1M 2440MHz Ant1



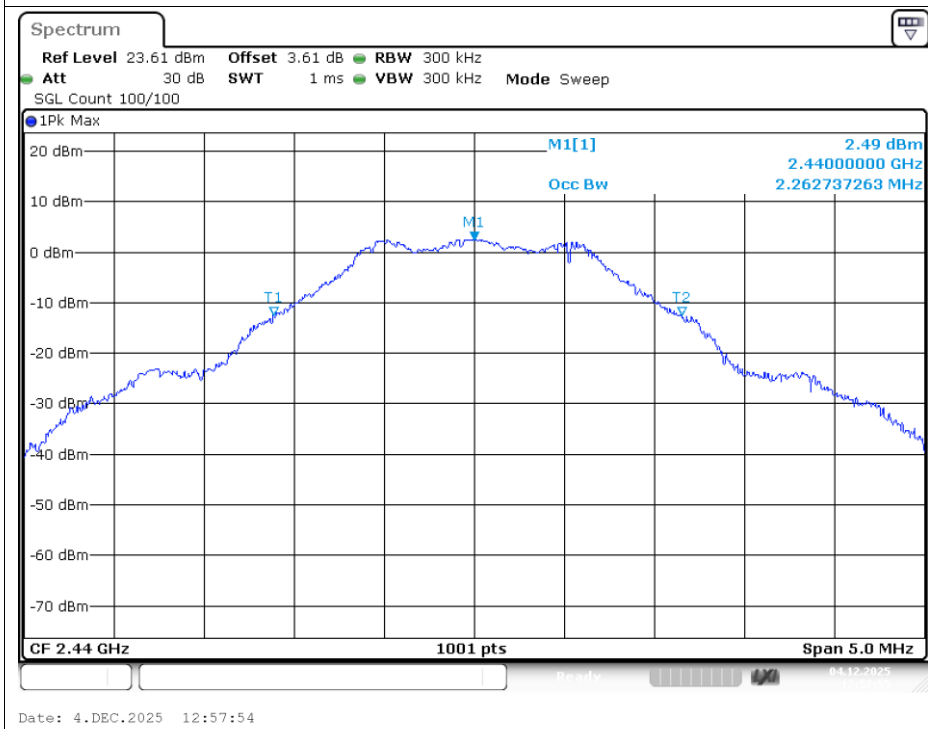
OBW NVNT BLE 1M 2480MHz Ant1



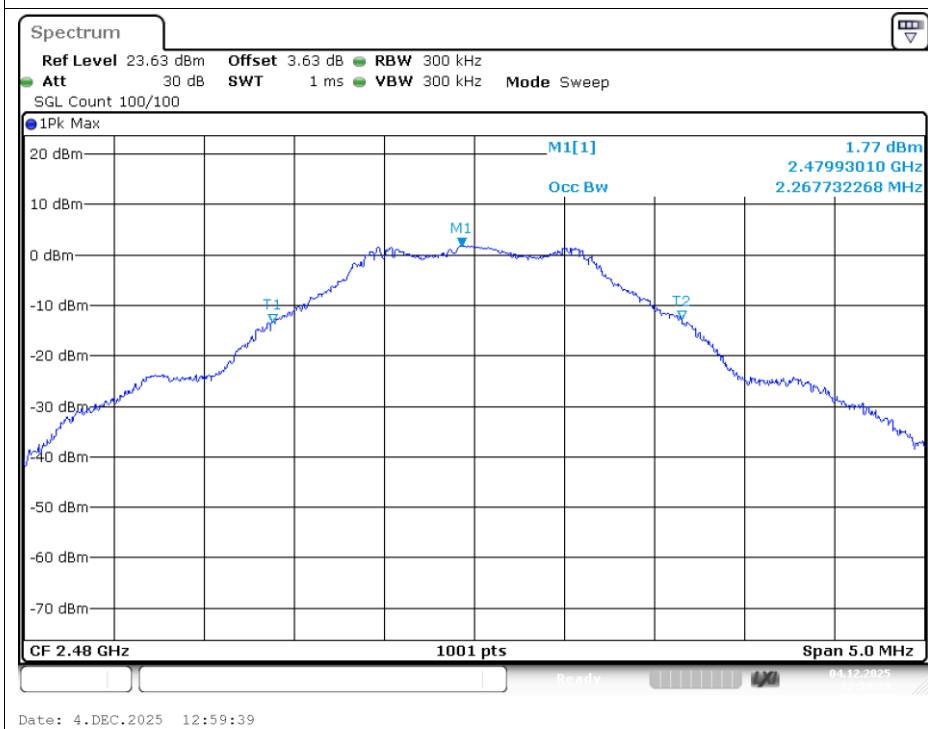
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1

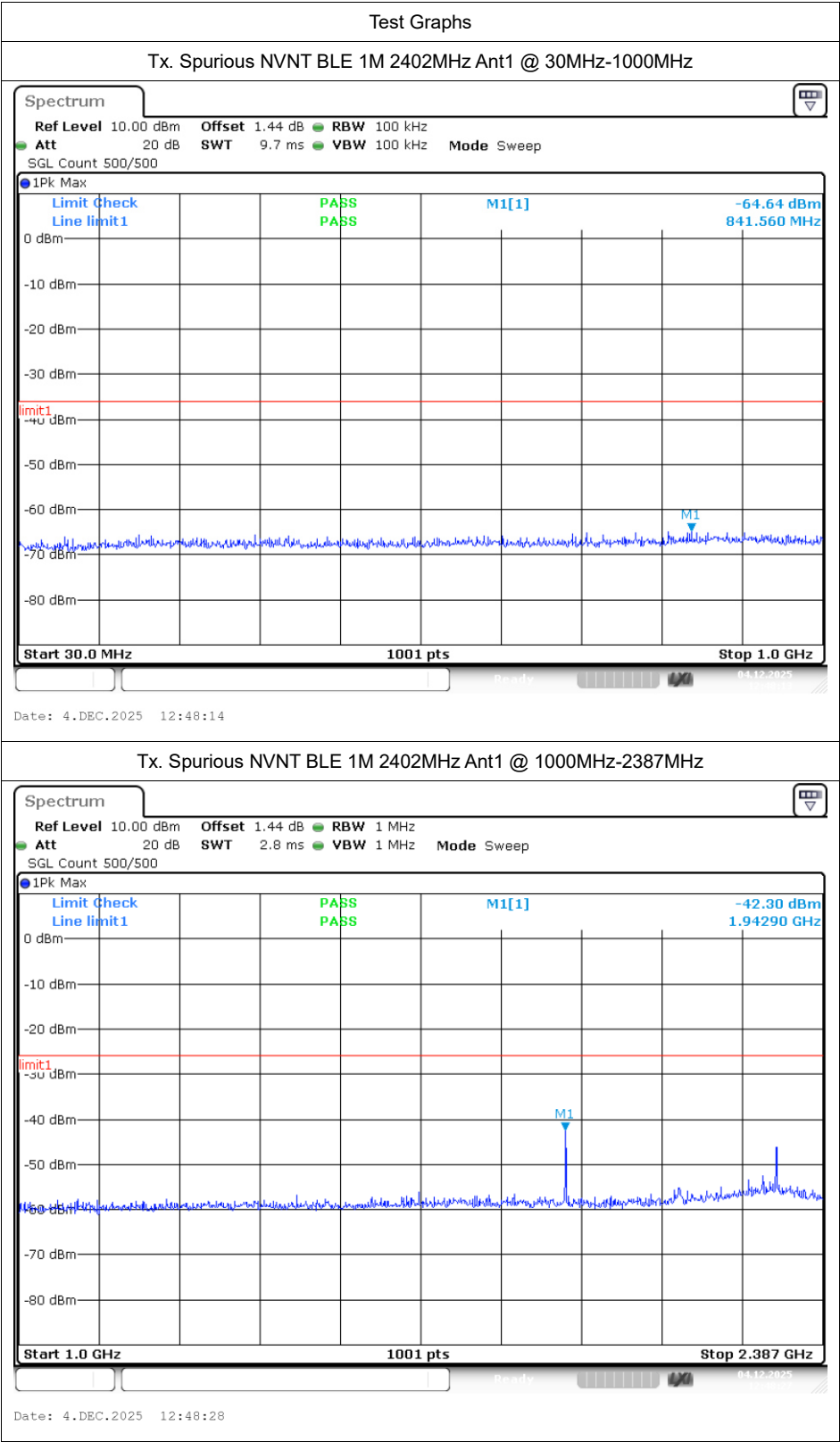


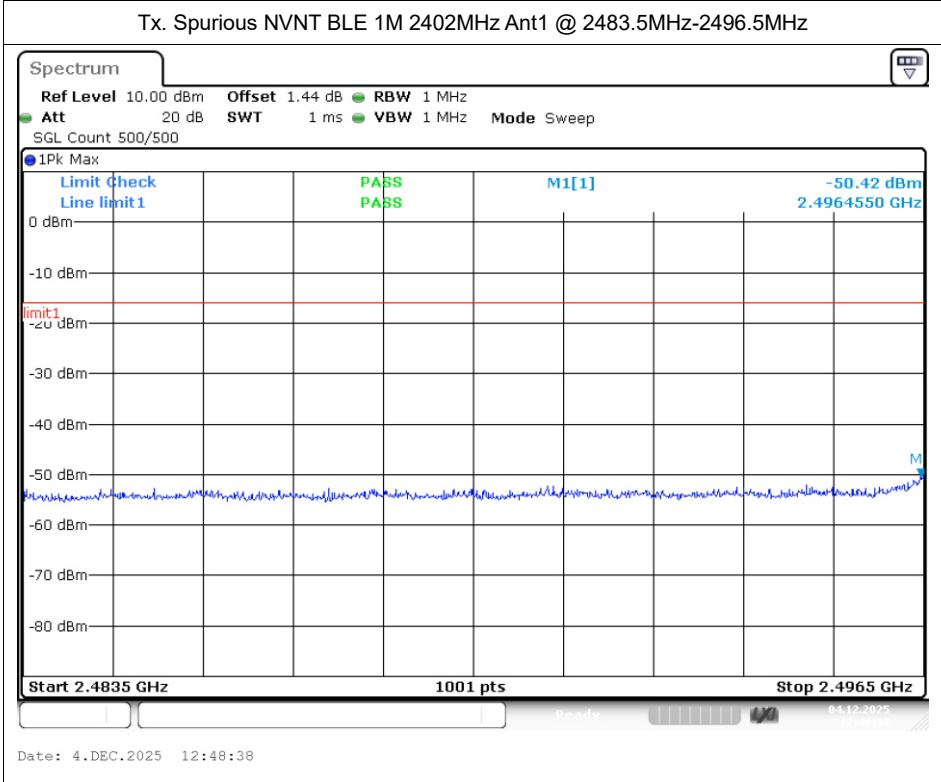
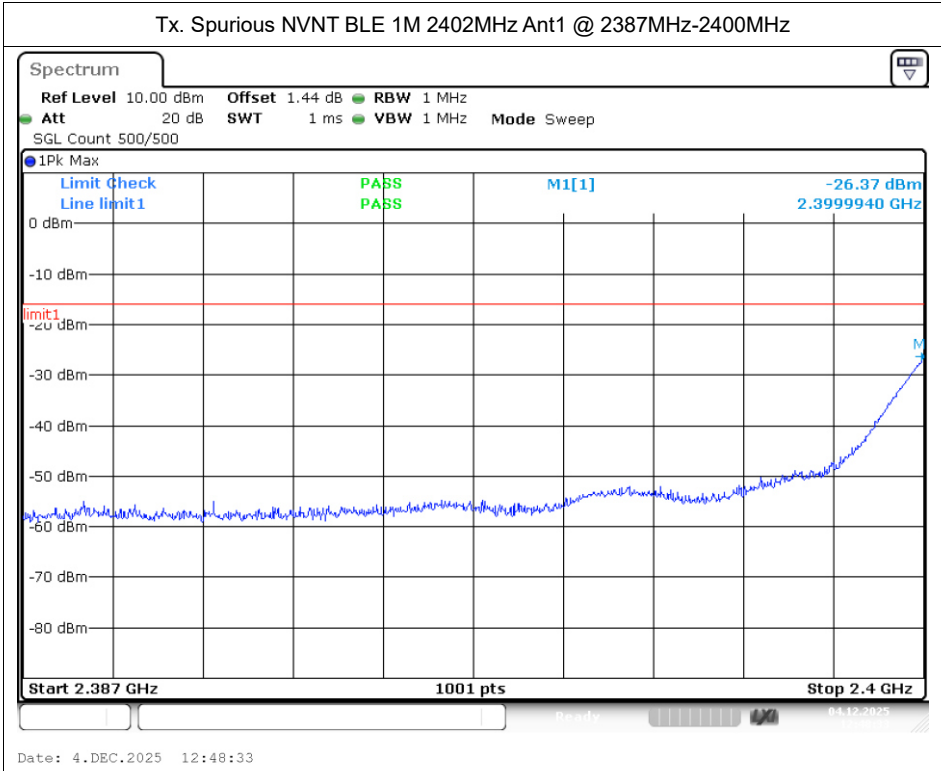
Tx Spurious Emission

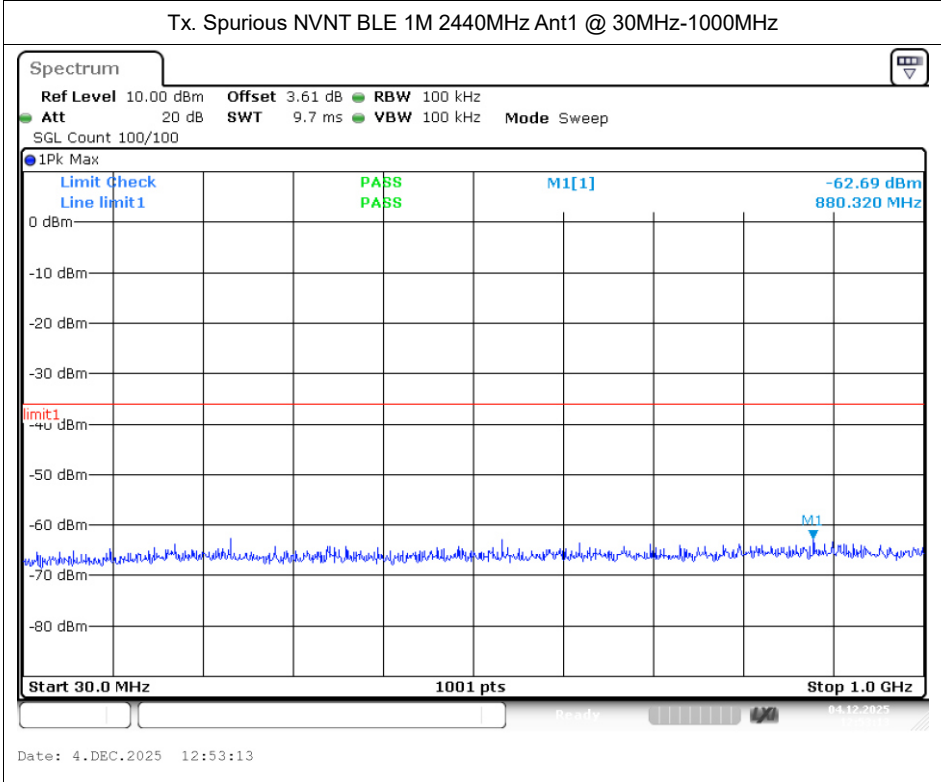
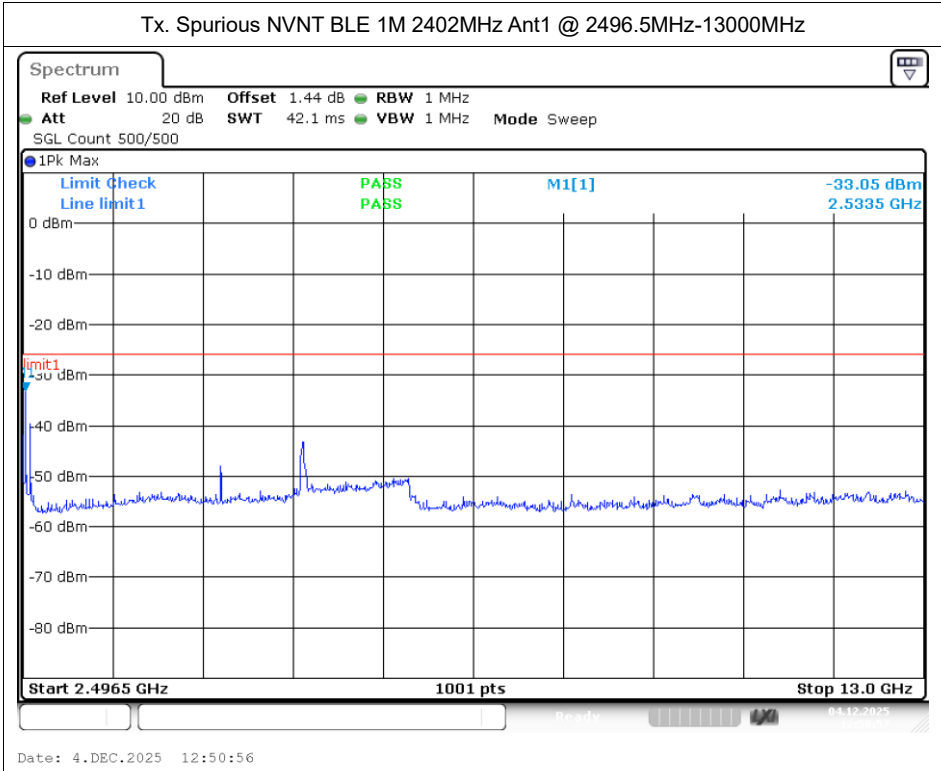
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/100kHz)	Limit Start(dBm/100kHz)	Limit Stop (dBm/100kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	30-1000	841.56	-64.64	-36	-36	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	880.32	-62.69	-36	-36	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	852.22	-63.19	-36	-36	Pass
NVNT	BLE 2M	2402	Ant1	30-1000	830.9	-62.81	-36	-36	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	935.56	-62.63	-36	-36	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	742.72	-62.82	-36	-36	Pass

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Limit Start(dBm/MHz)	Limit Stop (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1000-2387	1942.9	-42.3	-26	-26	Pass
NVNT	BLE 1M	2402	Ant1	2387-2400	2399.99	-26.37	-16	-16	Pass
NVNT	BLE 1M	2402	Ant1	2483.5-2496.5	2496.46	-50.42	-16	-16	Pass
NVNT	BLE 1M	2402	Ant1	2496.5-13000	2533.5	-33.05	-26	-26	Pass
NVNT	BLE 1M	2440	Ant1	1000-2387	2344.7	-43.95	-26	-26	Pass
NVNT	BLE 1M	2440	Ant1	2387-2400	2391.98	-52.01	-16	-16	Pass
NVNT	BLE 1M	2440	Ant1	2483.5-2496.5	2488.19	-52.13	-16	-16	Pass
NVNT	BLE 1M	2440	Ant1	2496.5-13000	2533.5	-41.13	-26	-26	Pass
NVNT	BLE 1M	2480	Ant1	1000-2387	2384.9	-43.46	-26	-26	Pass
NVNT	BLE 1M	2480	Ant1	2387-2400	2389.38	-52.24	-16	-16	Pass
NVNT	BLE 1M	2480	Ant1	2483.5-2496.5	2483.84	-46.22	-16	-16	Pass
NVNT	BLE 1M	2480	Ant1	2496.5-13000	2575.5	-42.75	-26	-26	Pass
NVNT	BLE 2M	2402	Ant1	1000-2387	2305.9	-44.79	-26	-26	Pass
NVNT	BLE 2M	2402	Ant1	2387-2400	2399.99	-18.65	-16	-16	Pass
NVNT	BLE 2M	2402	Ant1	2483.5-2496.5	2496.42	-46.89	-16	-16	Pass
NVNT	BLE 2M	2402	Ant1	2496.5-13000	5754.5	-37.18	-26	-26	Pass
NVNT	BLE 2M	2440	Ant1	1000-2387	2344.7	-44.78	-26	-26	Pass
NVNT	BLE 2M	2440	Ant1	2387-2400	2391.49	-52.05	-16	-16	Pass
NVNT	BLE 2M	2440	Ant1	2483.5-2496.5	2491.66	-52.34	-16	-16	Pass

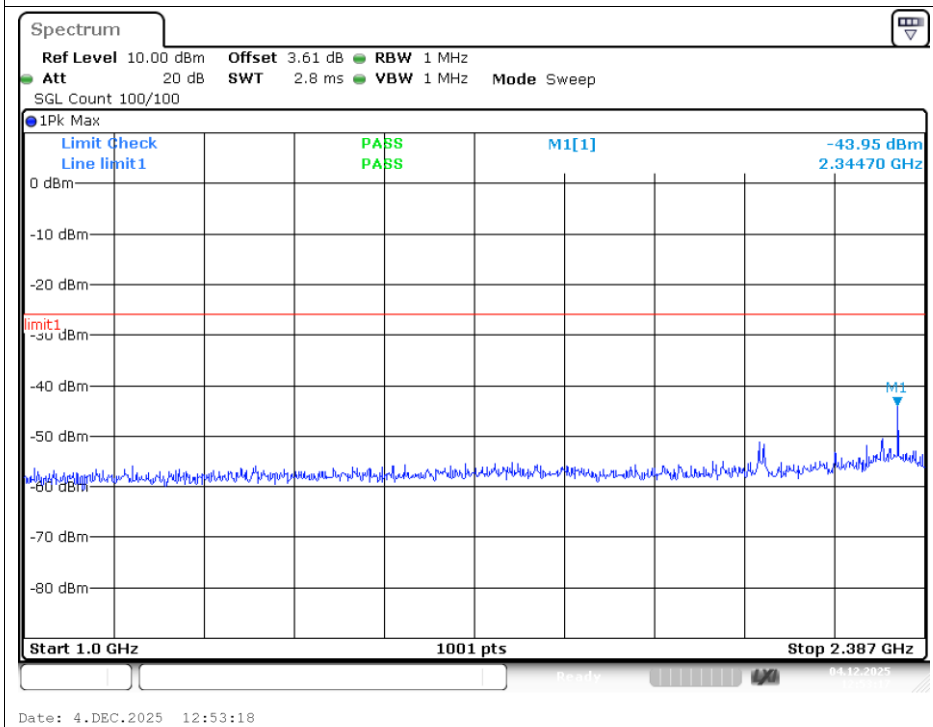
NVNT	BLE 2M	2440	Ant1	2496.5-13000	2533.5	-40.97	-26	-26	Pass
NVNT	BLE 2M	2480	Ant1	1000-2387	2384.9	-43.83	-26	-26	Pass
NVNT	BLE 2M	2480	Ant1	2387-2400	2392.67	-52.42	-16	-16	Pass
NVNT	BLE 2M	2480	Ant1	2483.5-2496.5	2483.51	-43	-16	-16	Pass
NVNT	BLE 2M	2480	Ant1	2496.5-13000	2575.5	-43.48	-26	-26	Pass



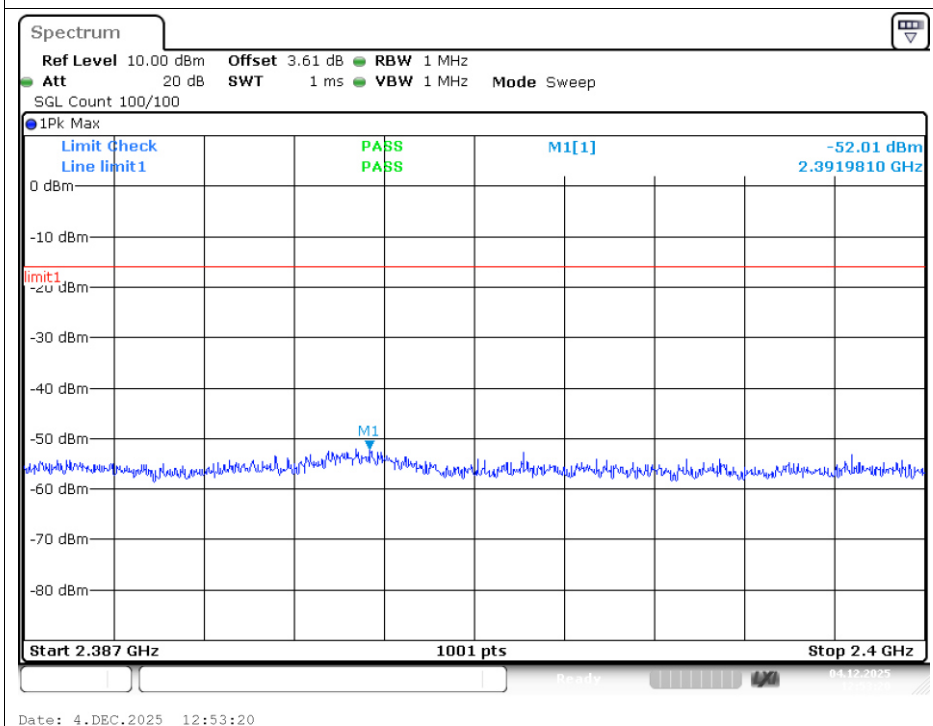




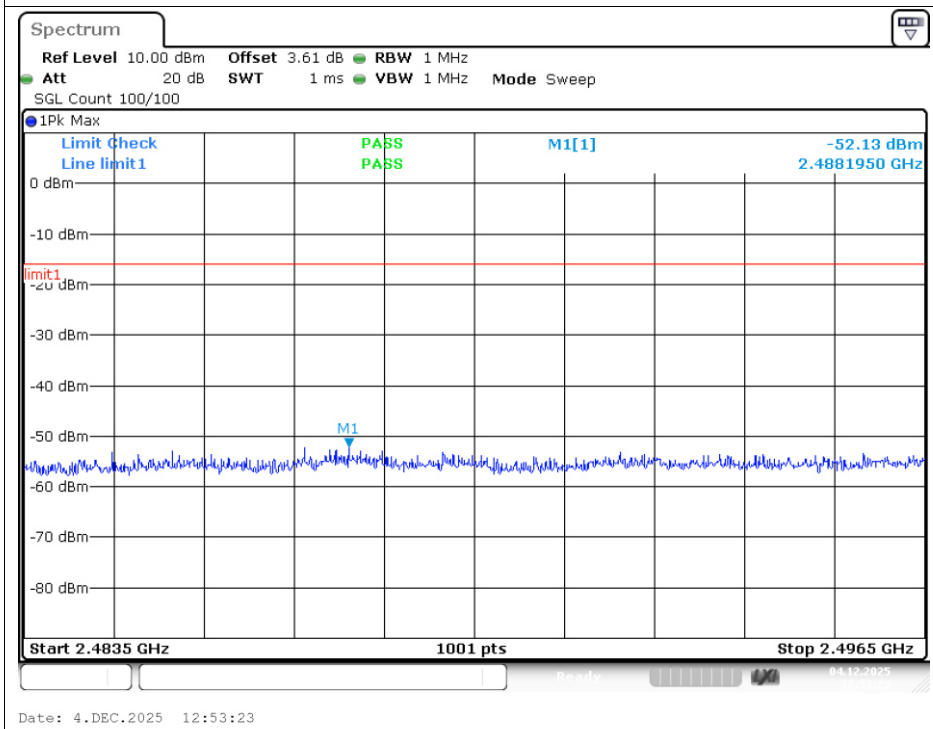
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-2387MHz



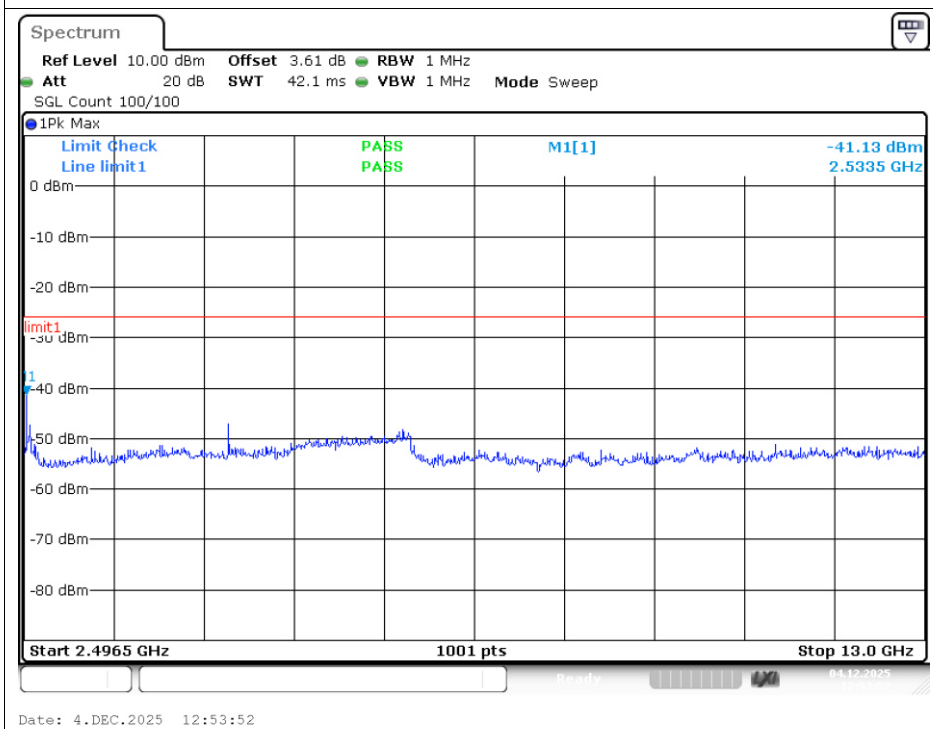
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2387MHz-2400MHz

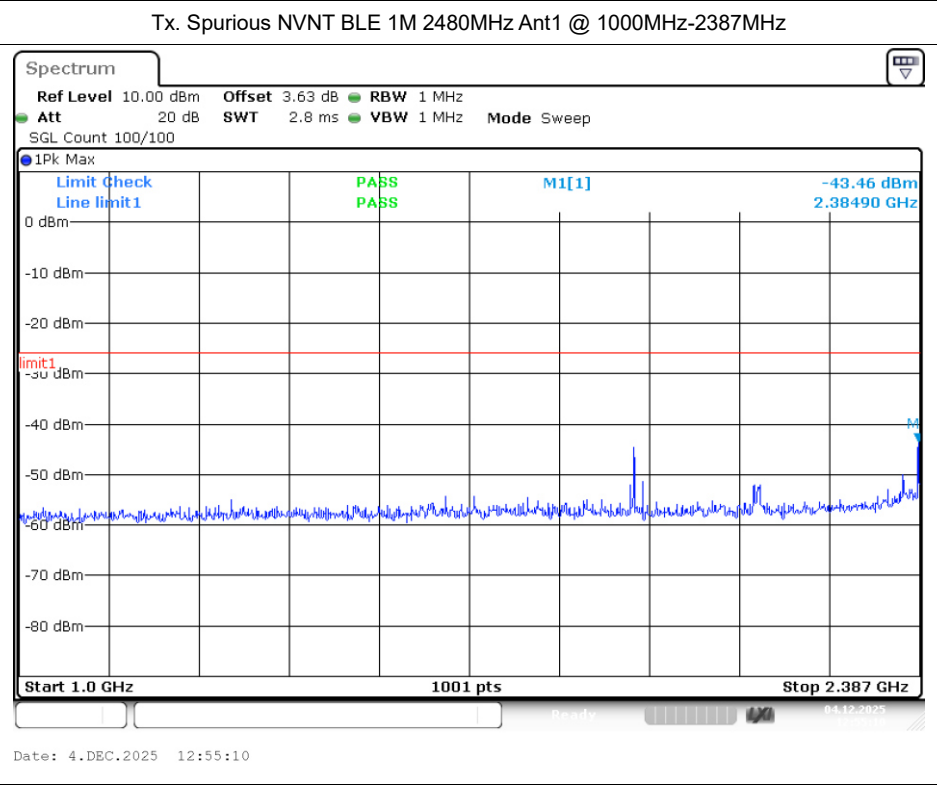
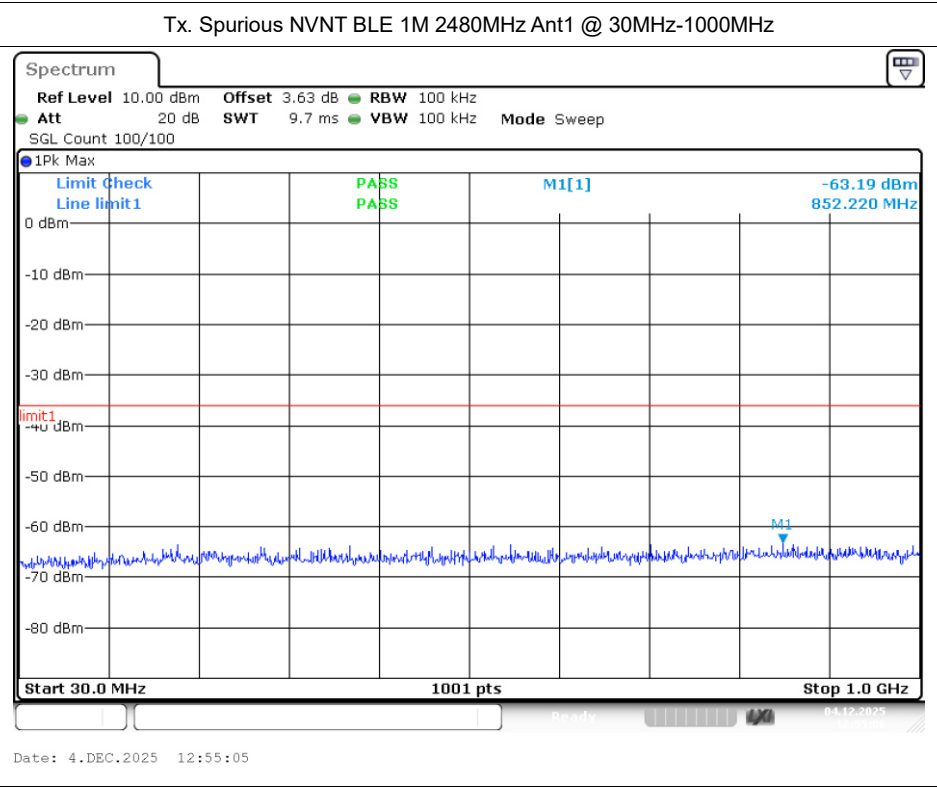


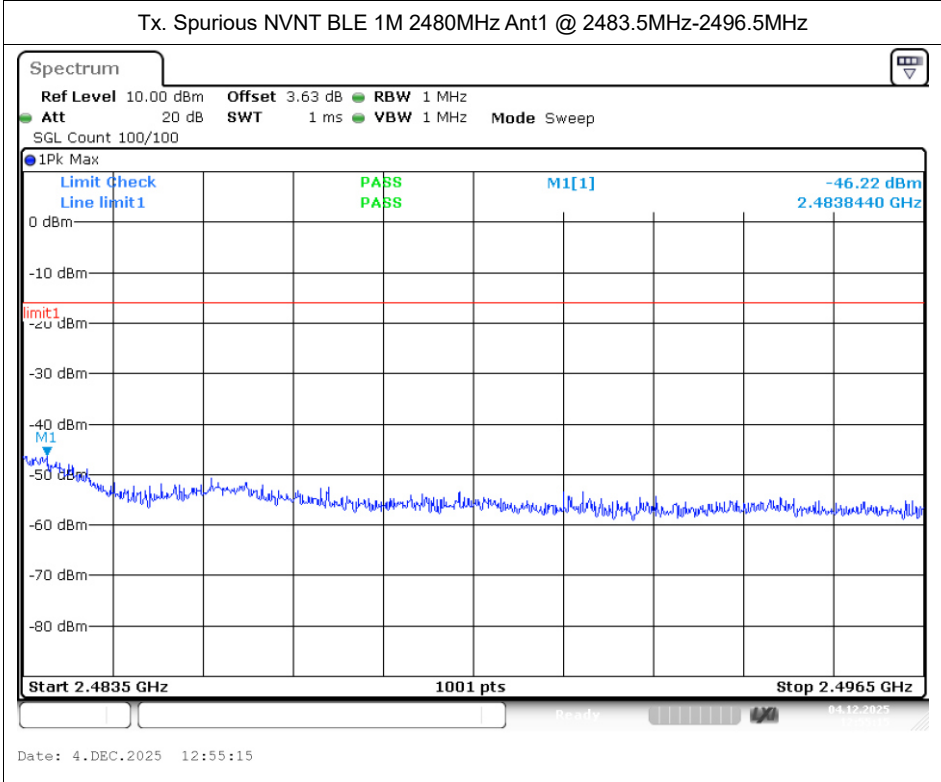
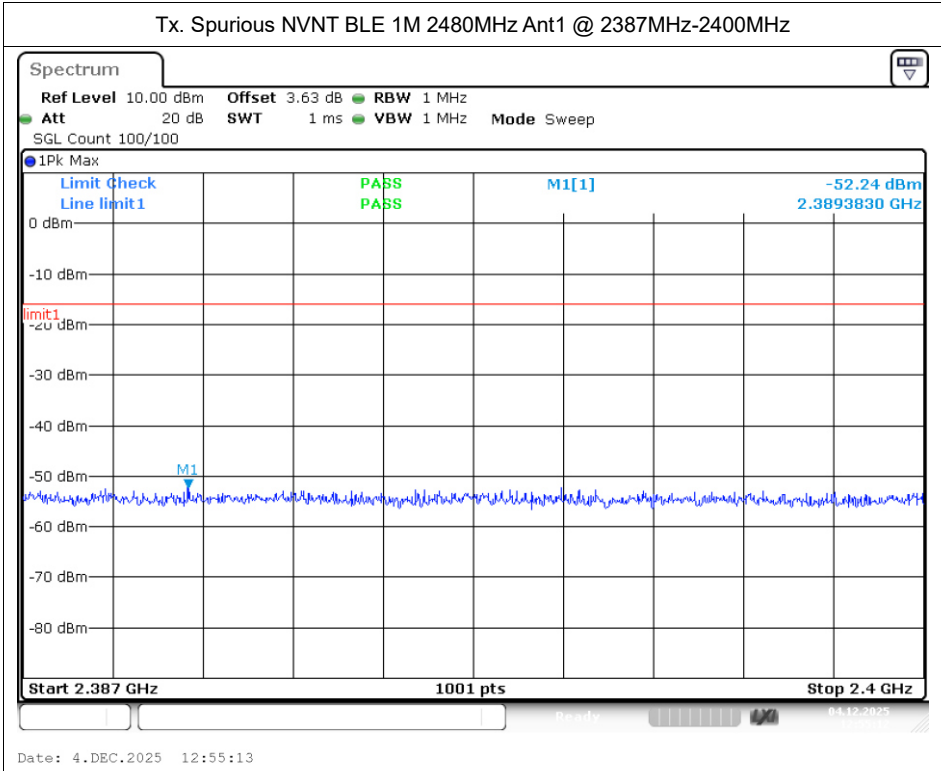
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz

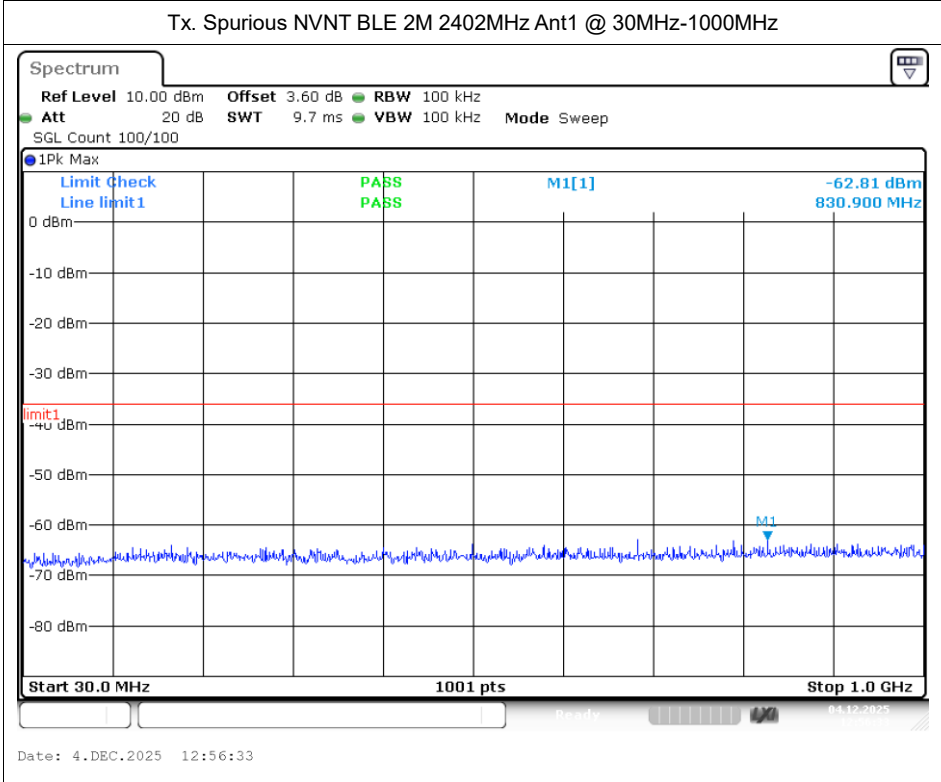
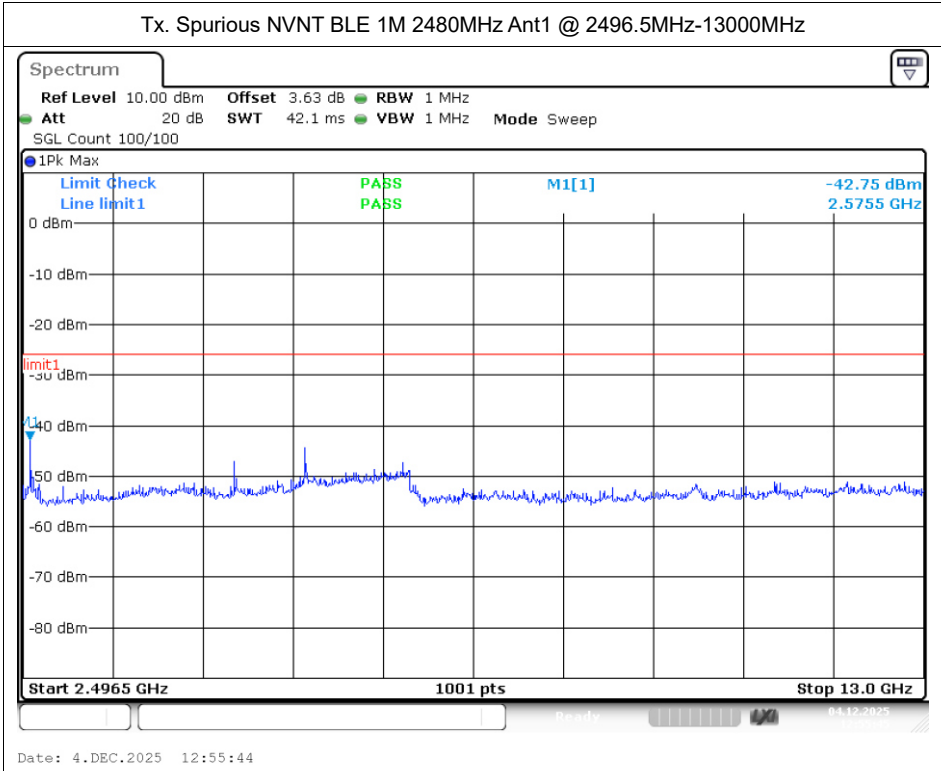


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2496.5MHz-13000MHz

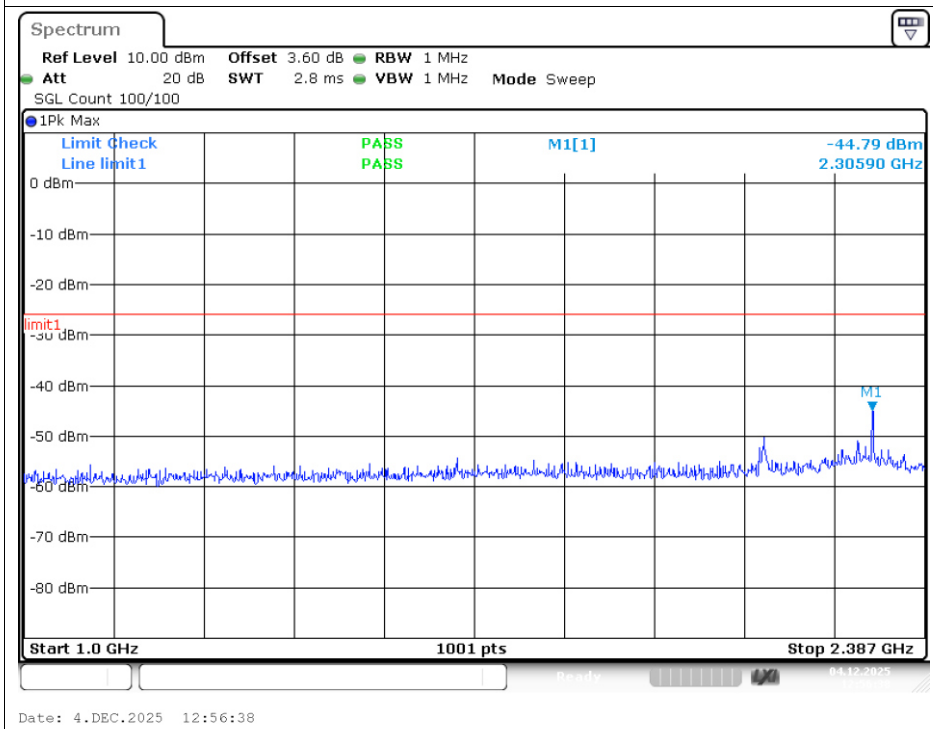




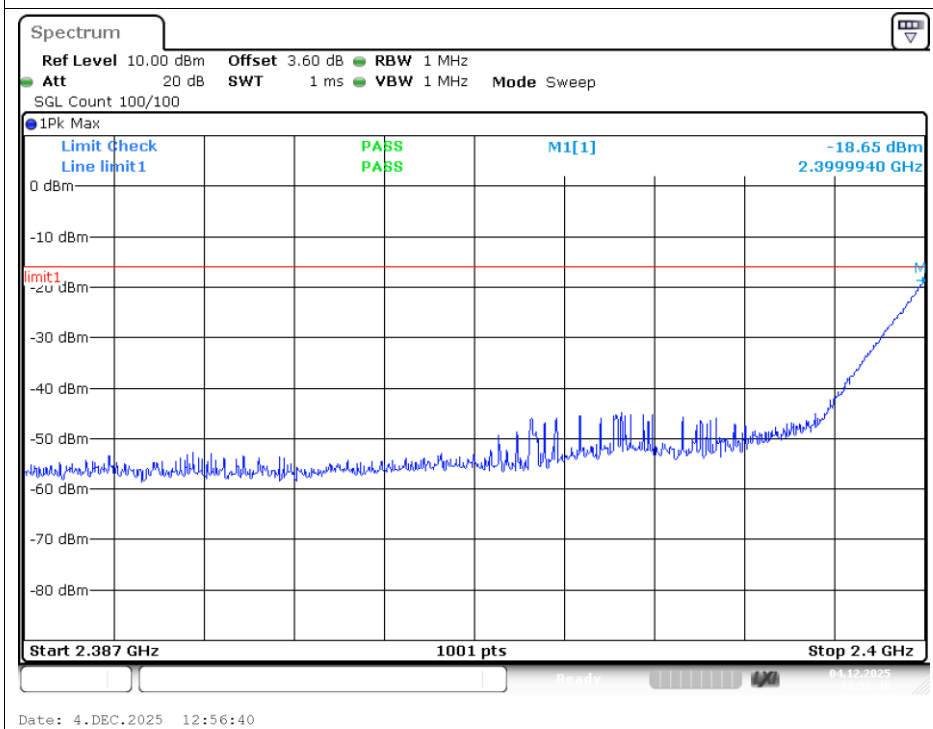




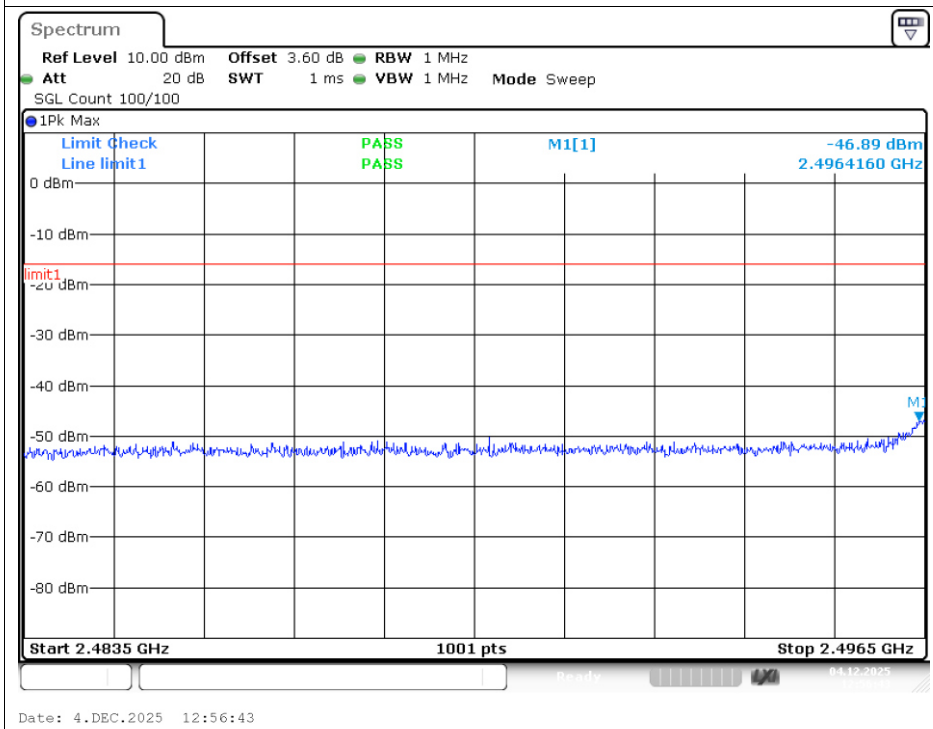
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-2387MHz



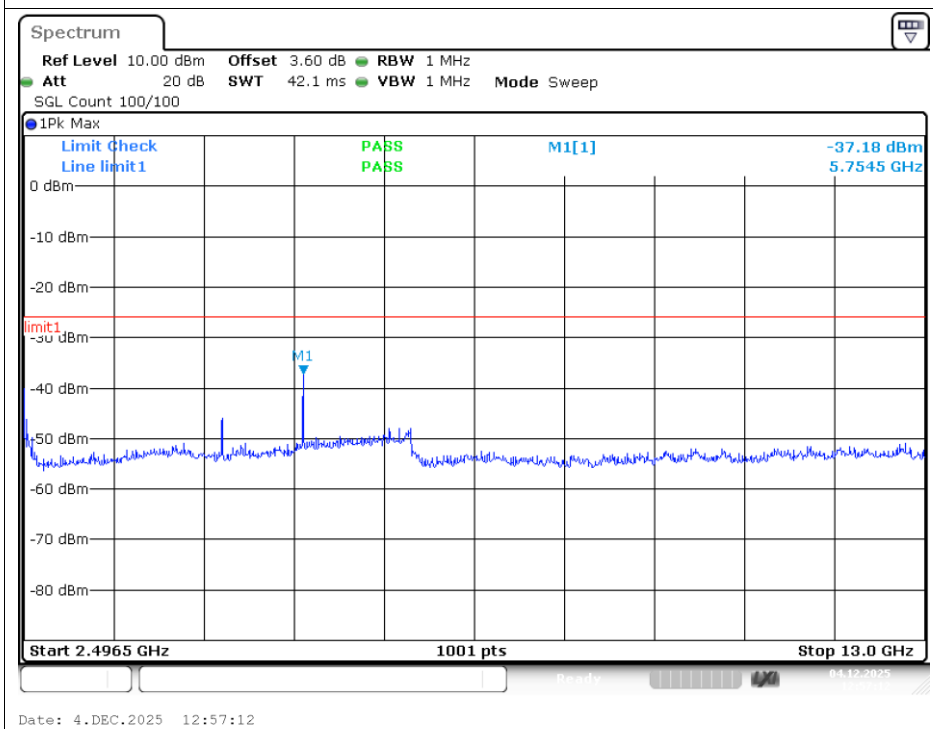
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2387MHz-2400MHz

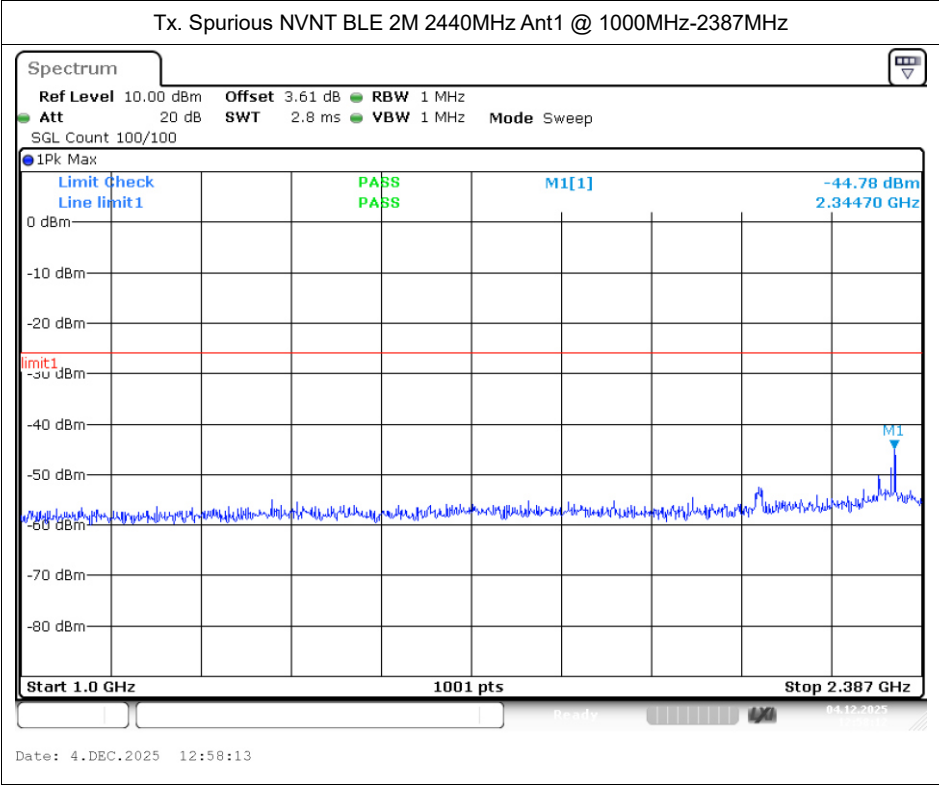
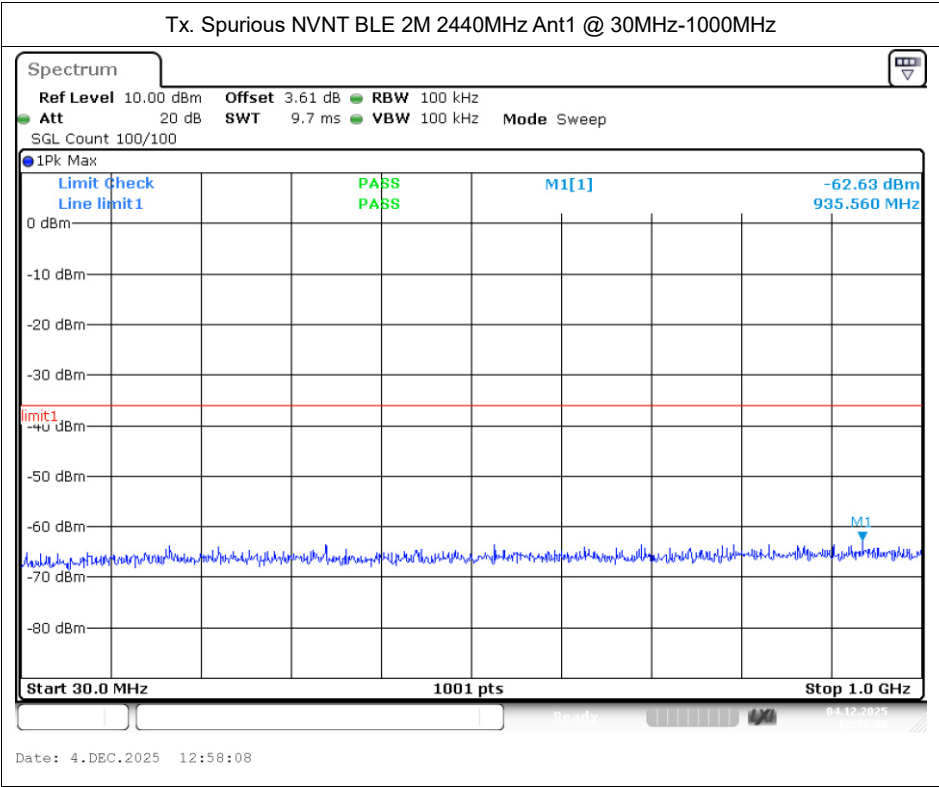


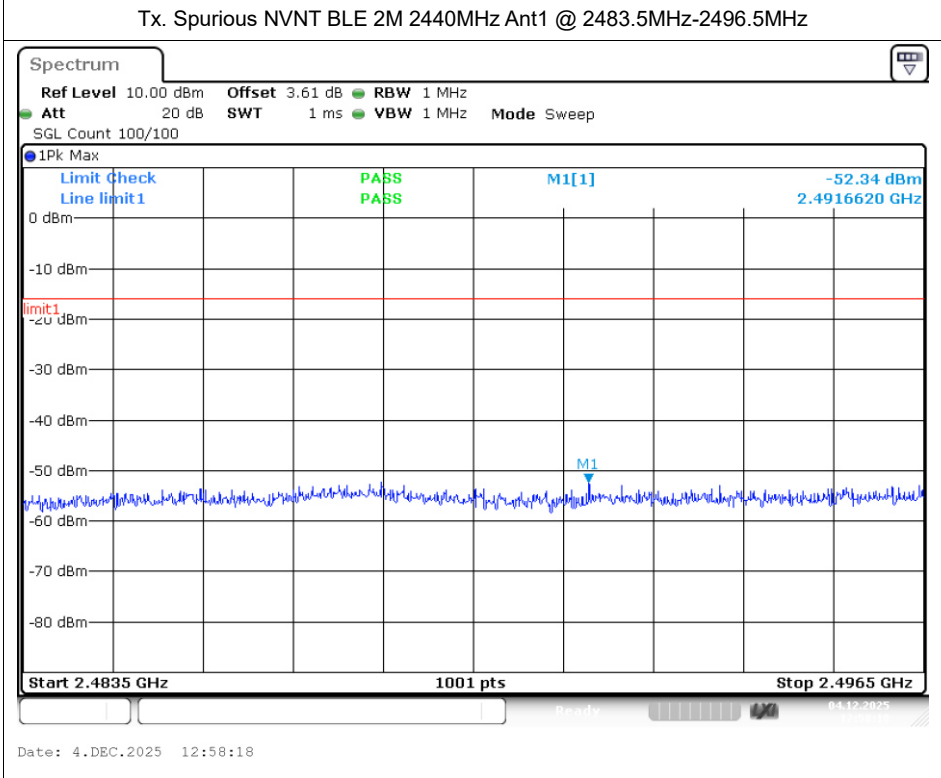
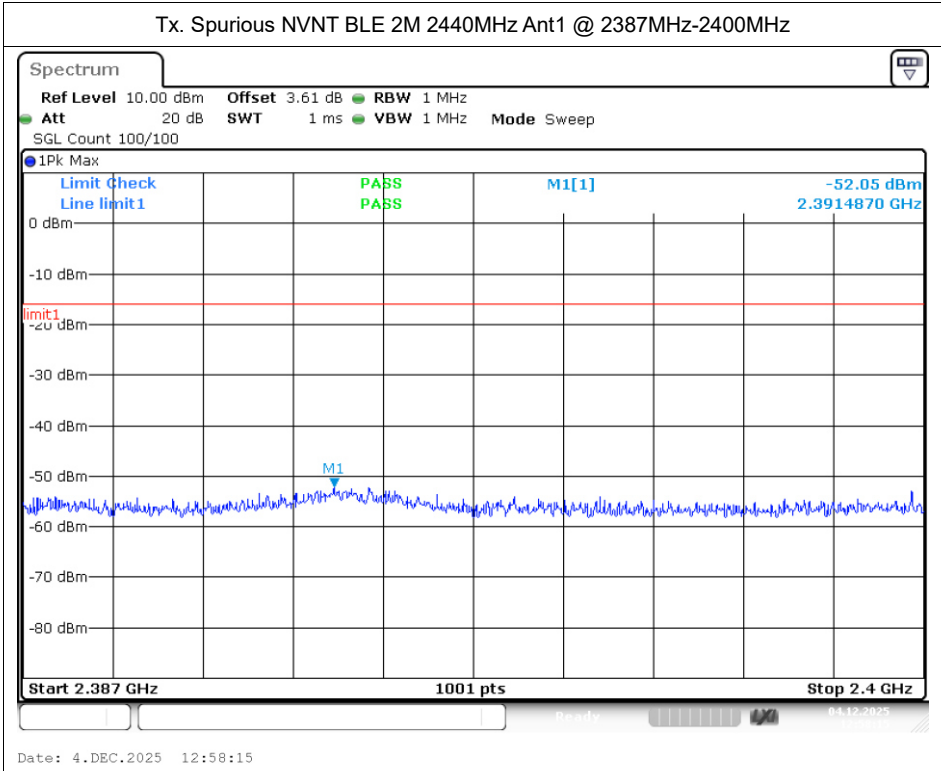
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz

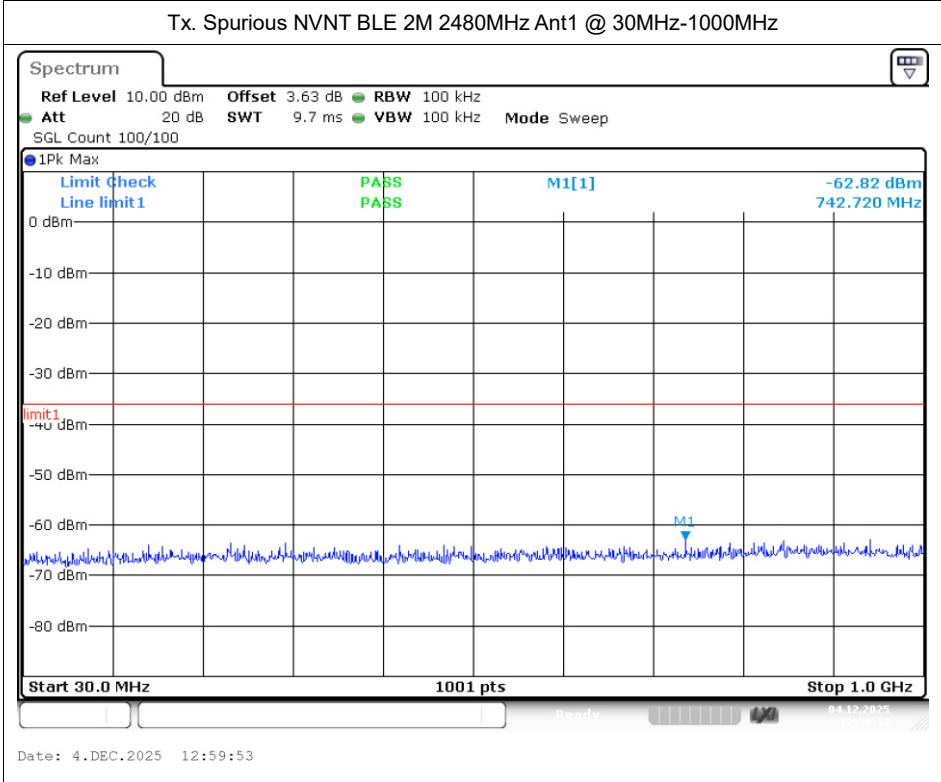
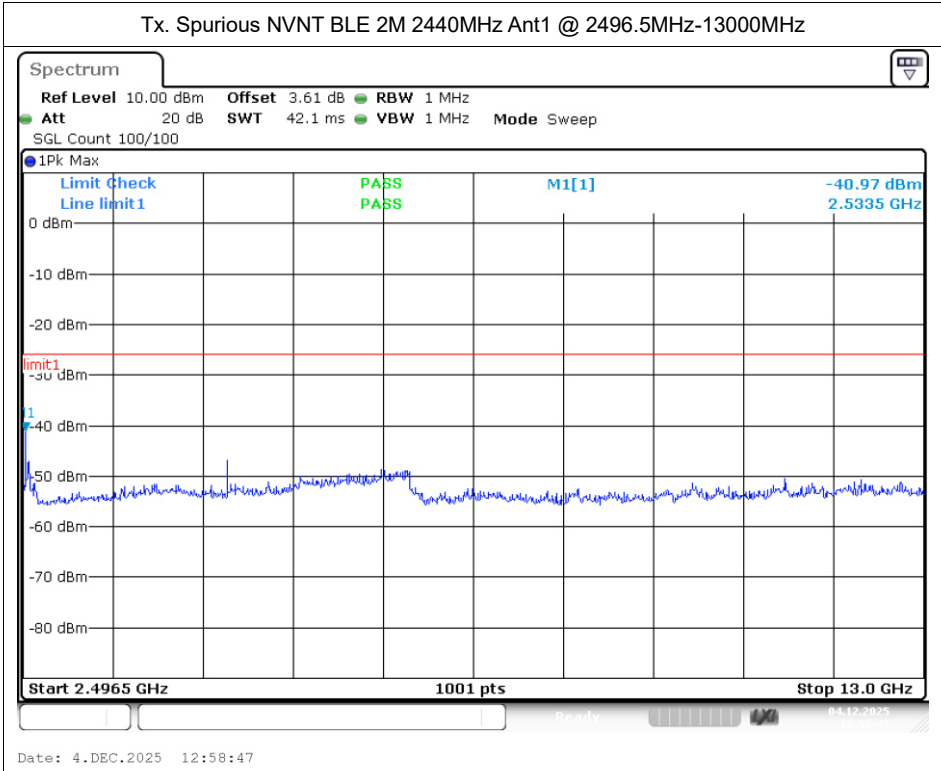


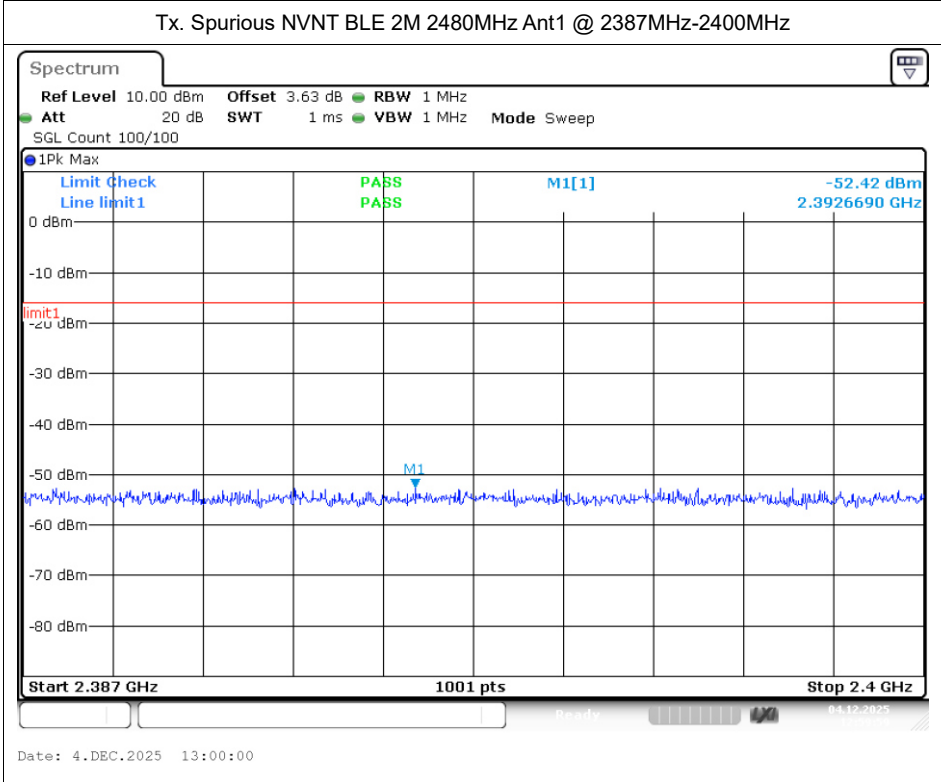
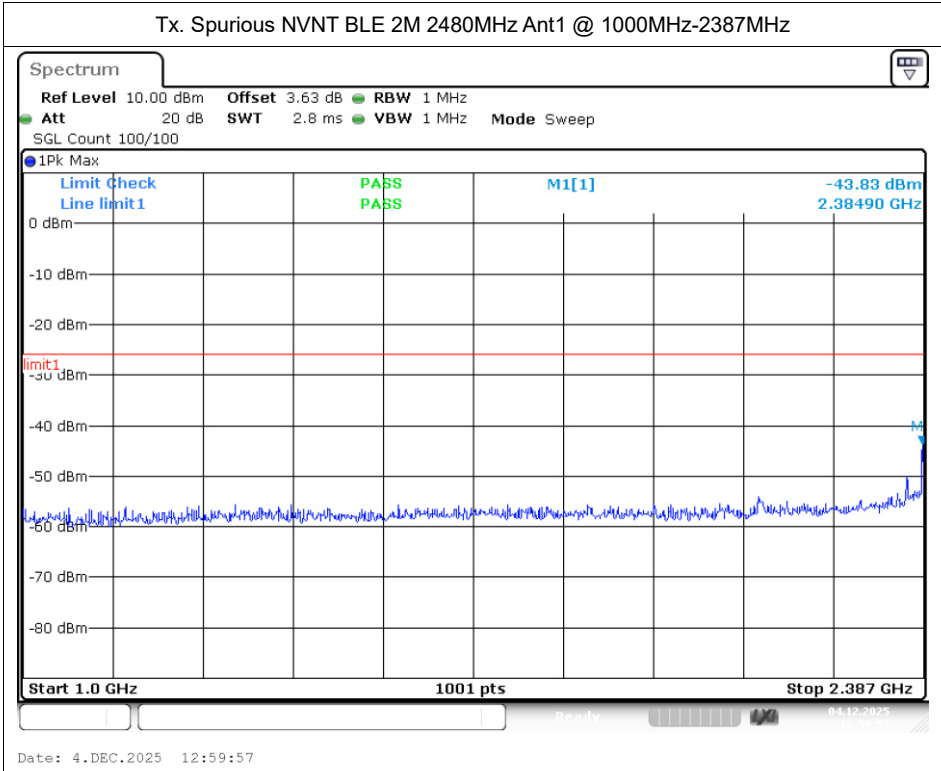
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2496.5MHz-13000MHz



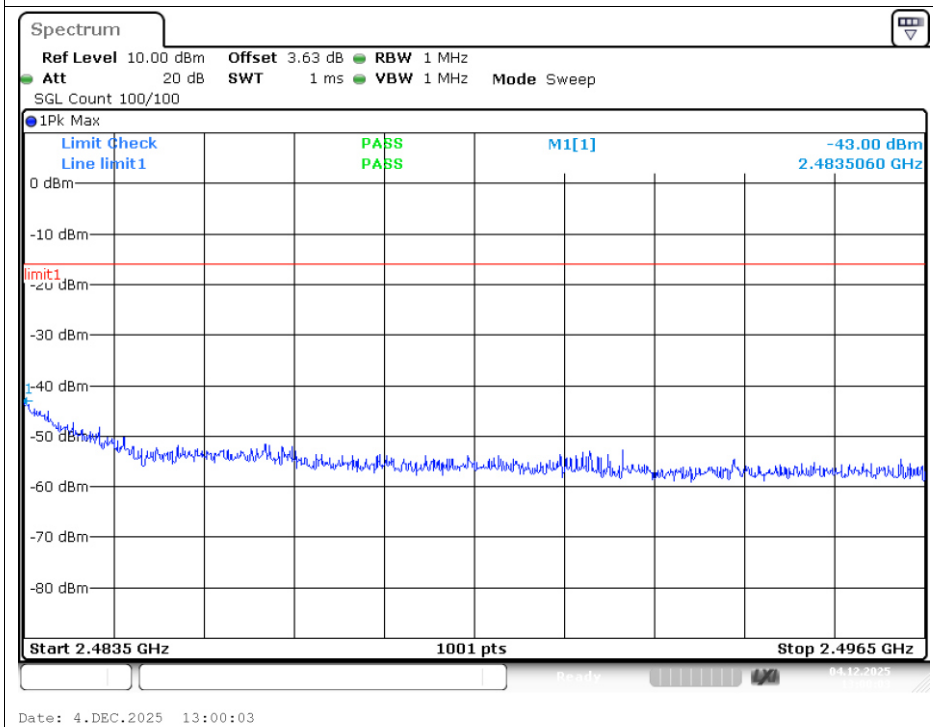




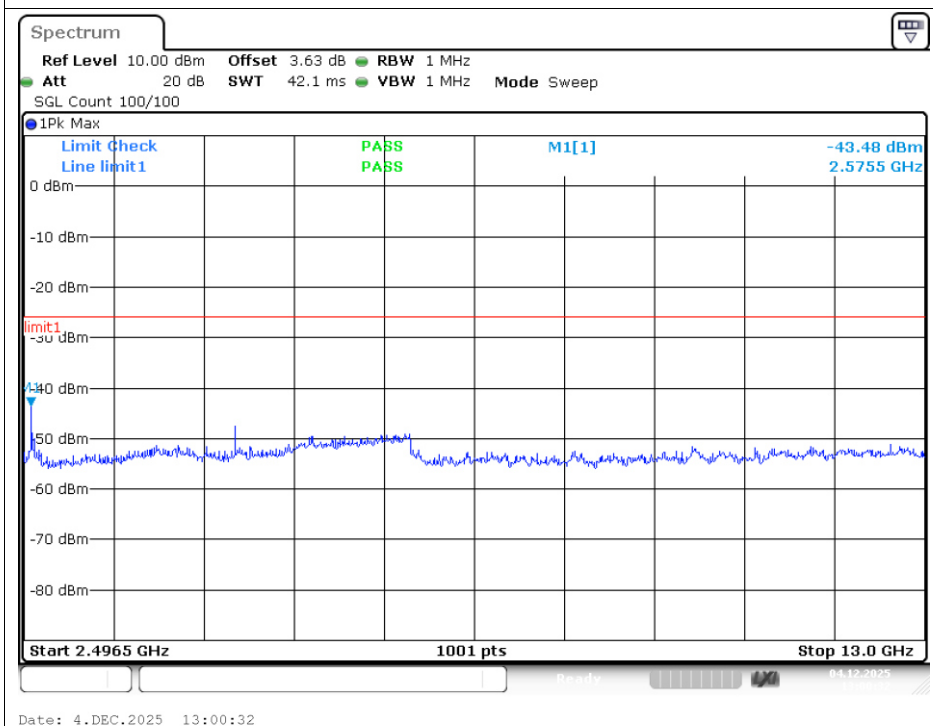




Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



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



Rx Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	30-1000	902.61	-73.07	-54	Pass
NVNT	BLE 1M	2402	Ant1	1000-13000	7000	-58.22	-47	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	919.09	-73.71	-54	Pass
NVNT	BLE 1M	2440	Ant1	1000-13000	6988	-58.33	-47	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	847.38	-72.3	-54	Pass
NVNT	BLE 1M	2480	Ant1	1000-13000	6964	-58.41	-47	Pass
NVNT	BLE 2M	2402	Ant1	30-1000	872.57	-73.34	-54	Pass
NVNT	BLE 2M	2402	Ant1	1000-13000	6940	-58.62	-47	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	899.71	-72.99	-54	Pass
NVNT	BLE 2M	2440	Ant1	1000-13000	6940	-58.4	-47	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	883.23	-73.1	-54	Pass
NVNT	BLE 2M	2480	Ant1	1000-13000	6964	-58.41	-47	Pass

