

Test Data Appendix For BLE

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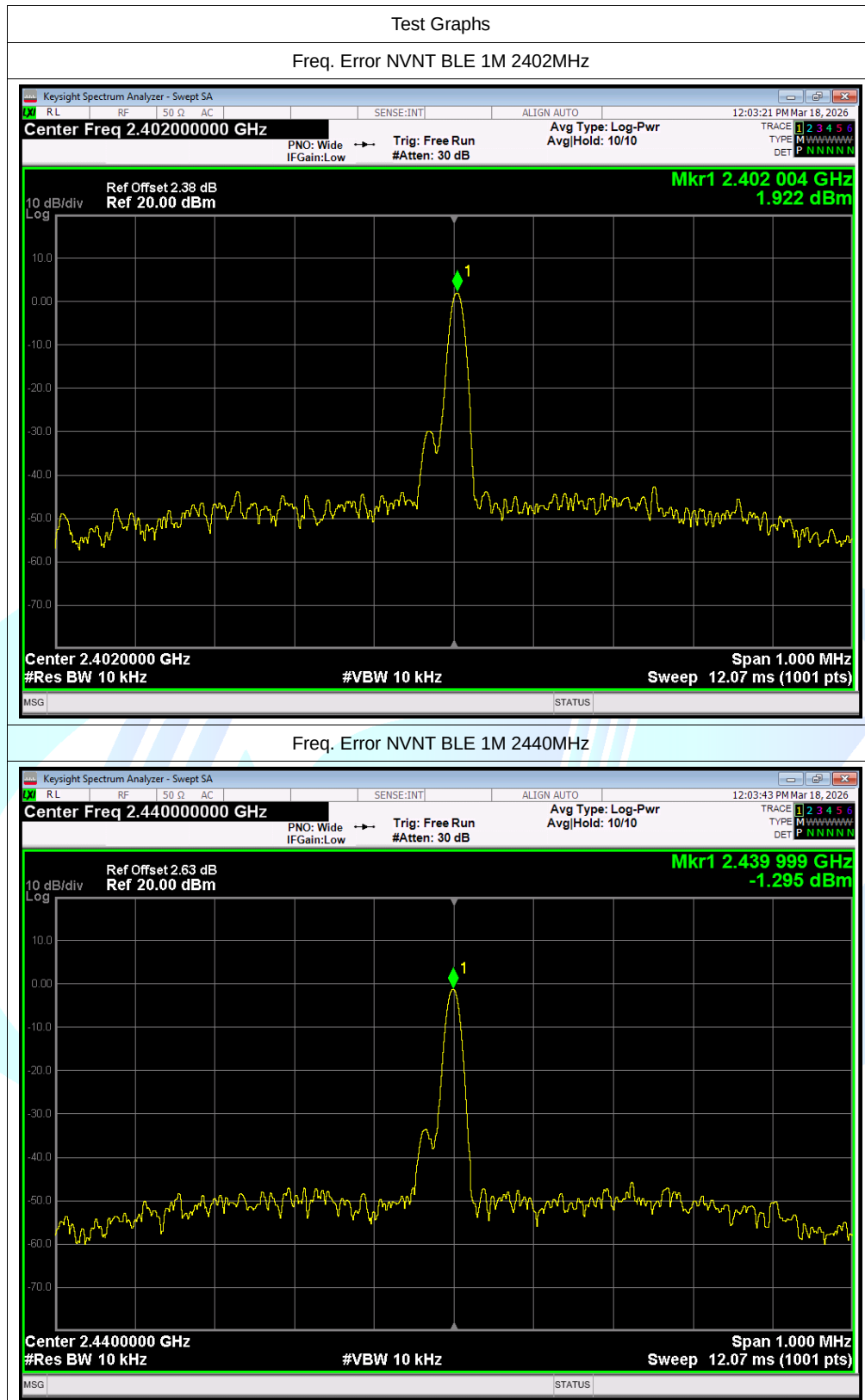
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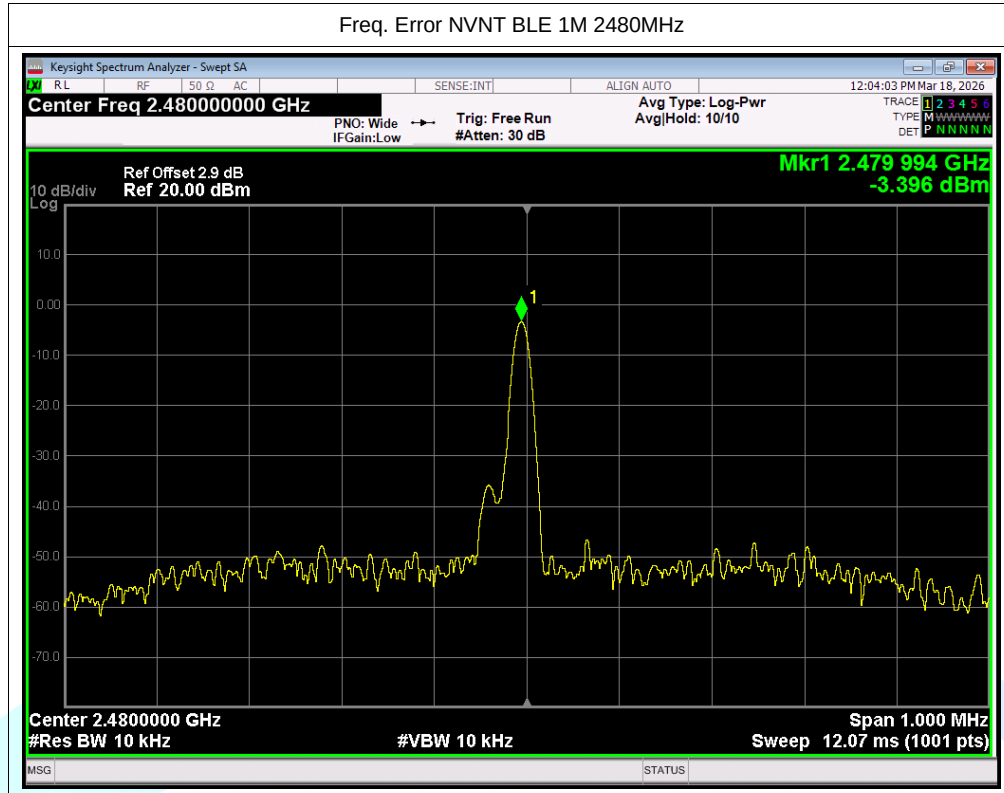


Frequency Error

Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2402	2402.004	4000	1.67	50	Pass
	2440	2439.999	-1000	-0.41	50	Pass
	2480	2479.994	-6000	-2.42	50	Pass



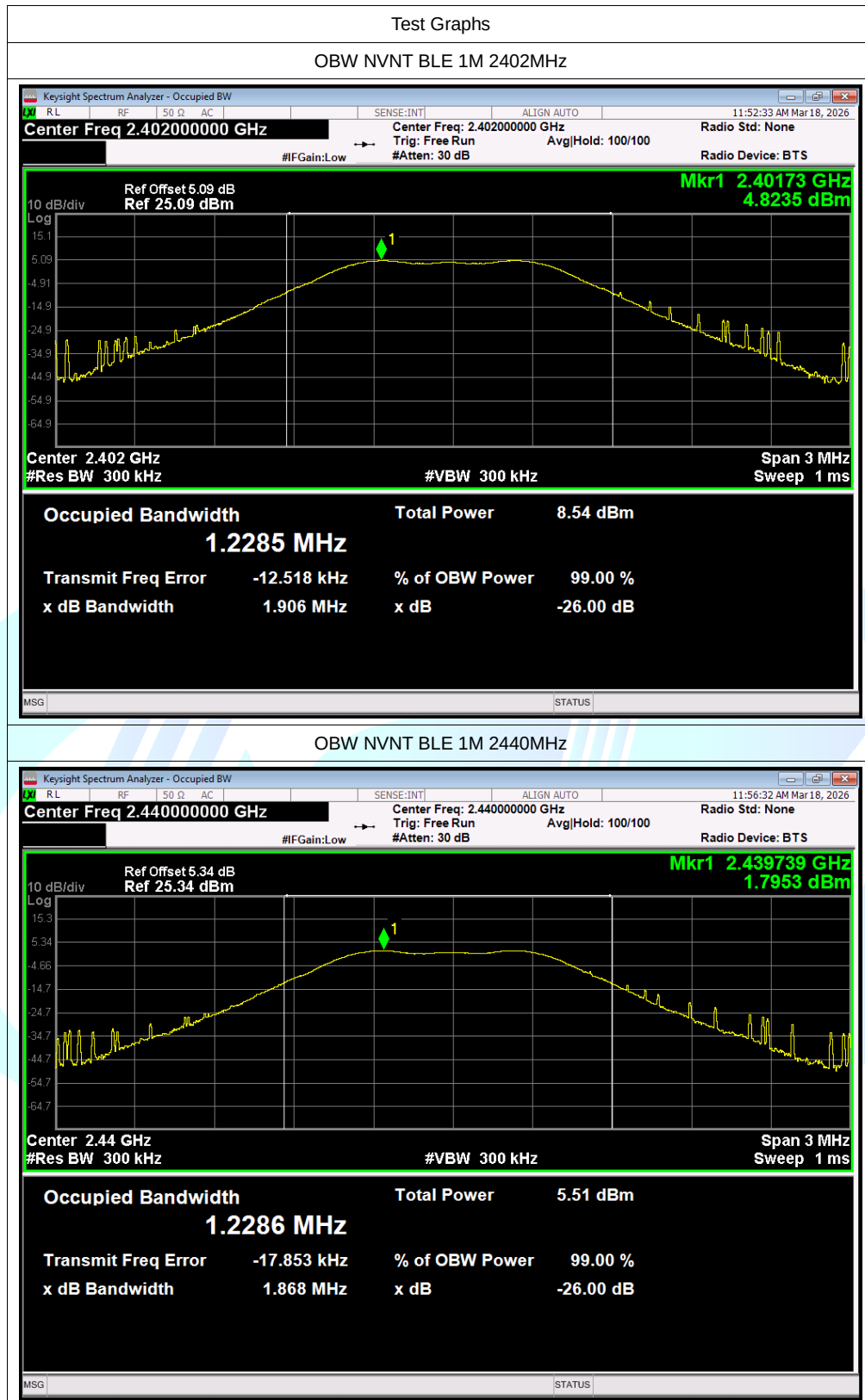


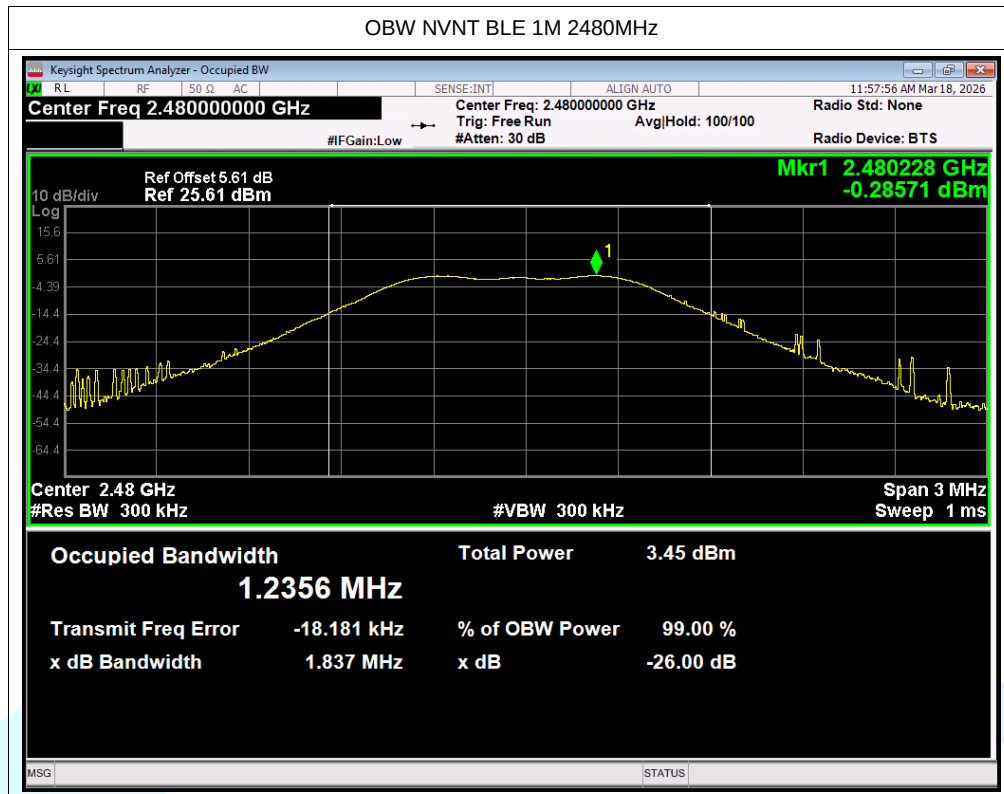


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	BLE 1M	2402	1.2285
	BLE 1M	2440	1.2286
	BLE 1M	2480	1.2356



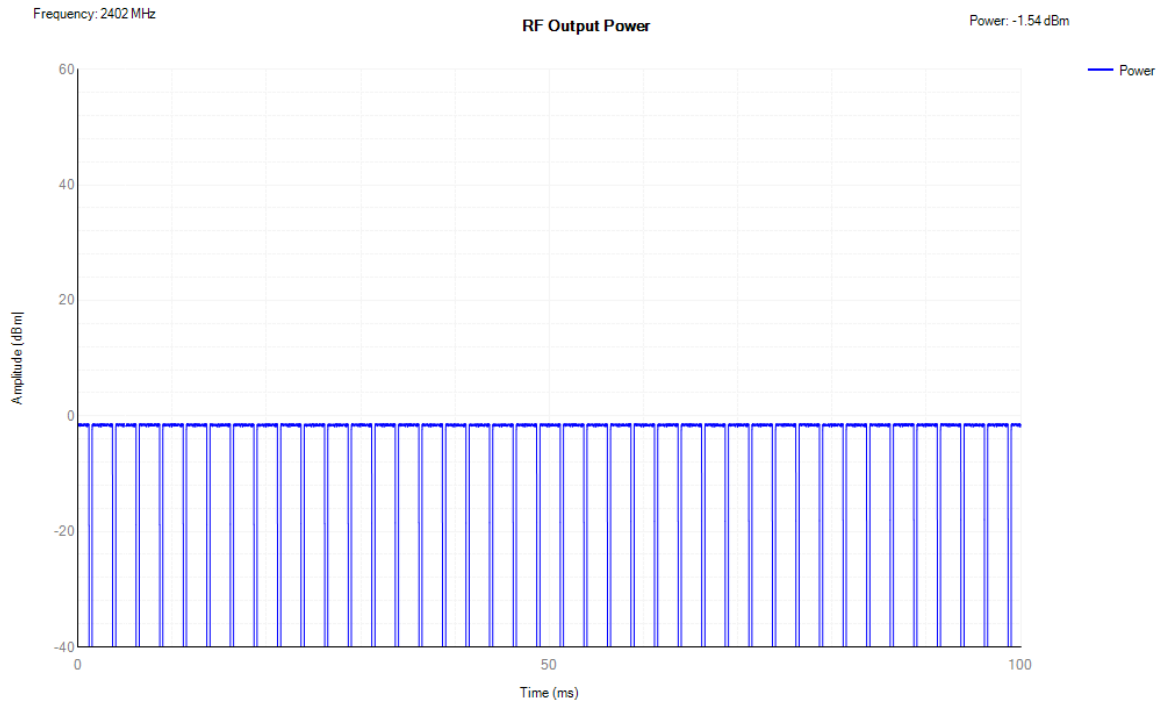
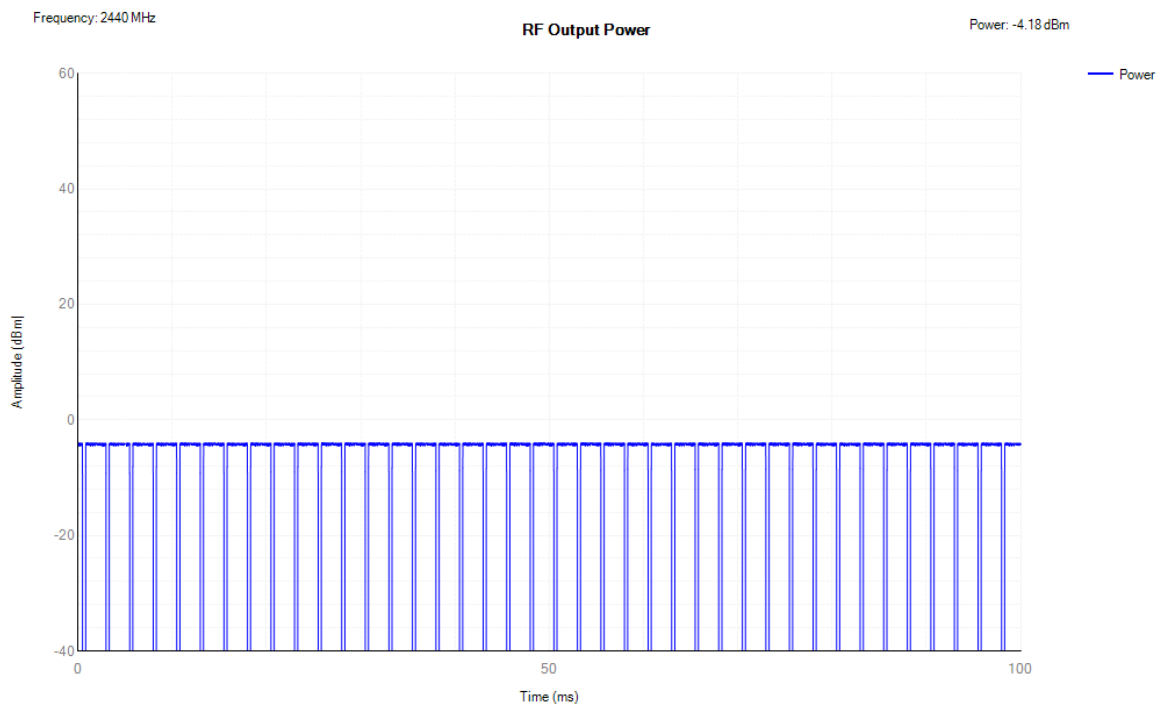


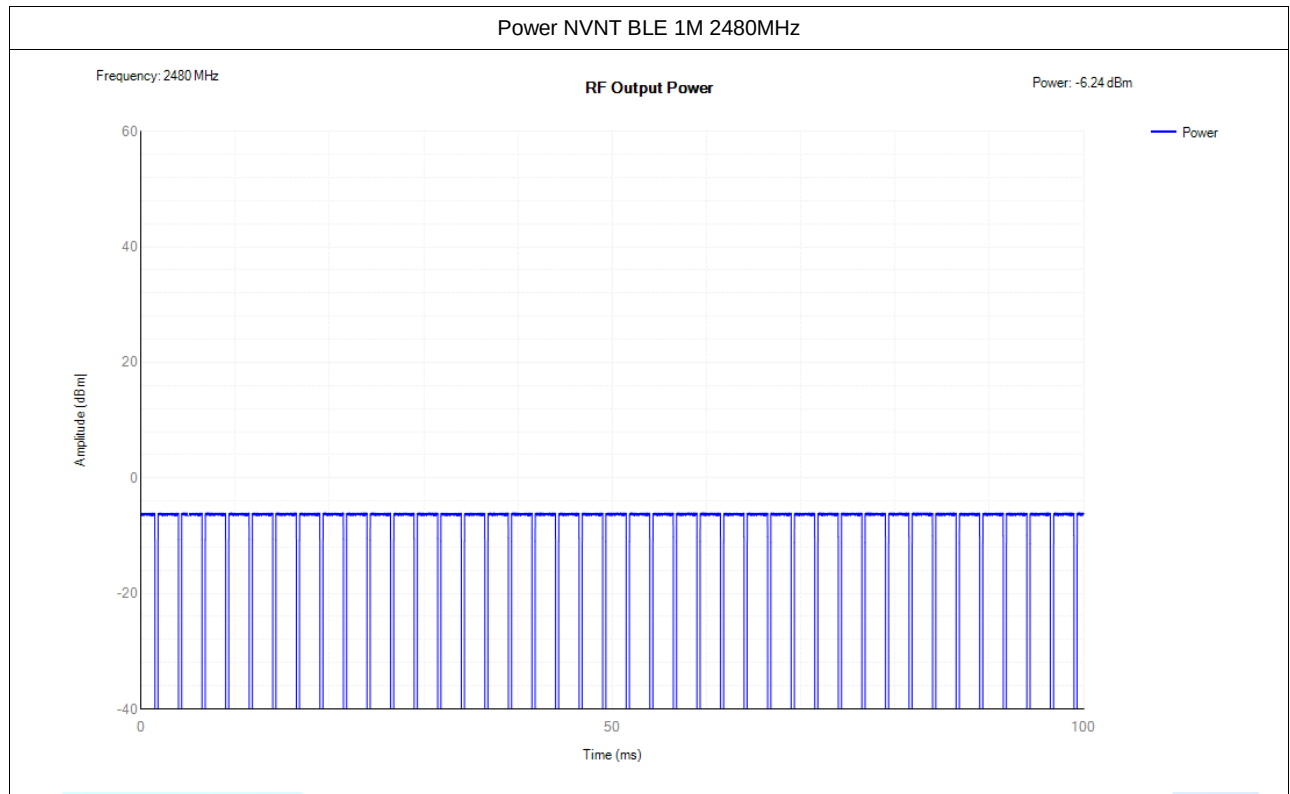


Antenna Power

Condition	Mode	Frequenc y (MHz)	Power (dBm)	Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	LE 1M	2402	-1.54	0.701	10	1	-29.9	20	Pass
		2440	-4.18	0.382	10	1	-61.8	20	Pass
		2480	-6.24	0.238	10	1	-76.2	20	Pass



Test Graphs
Power NVNT BLE 1M 2402MHz

Power NVNT BLE 1M 2440MHz




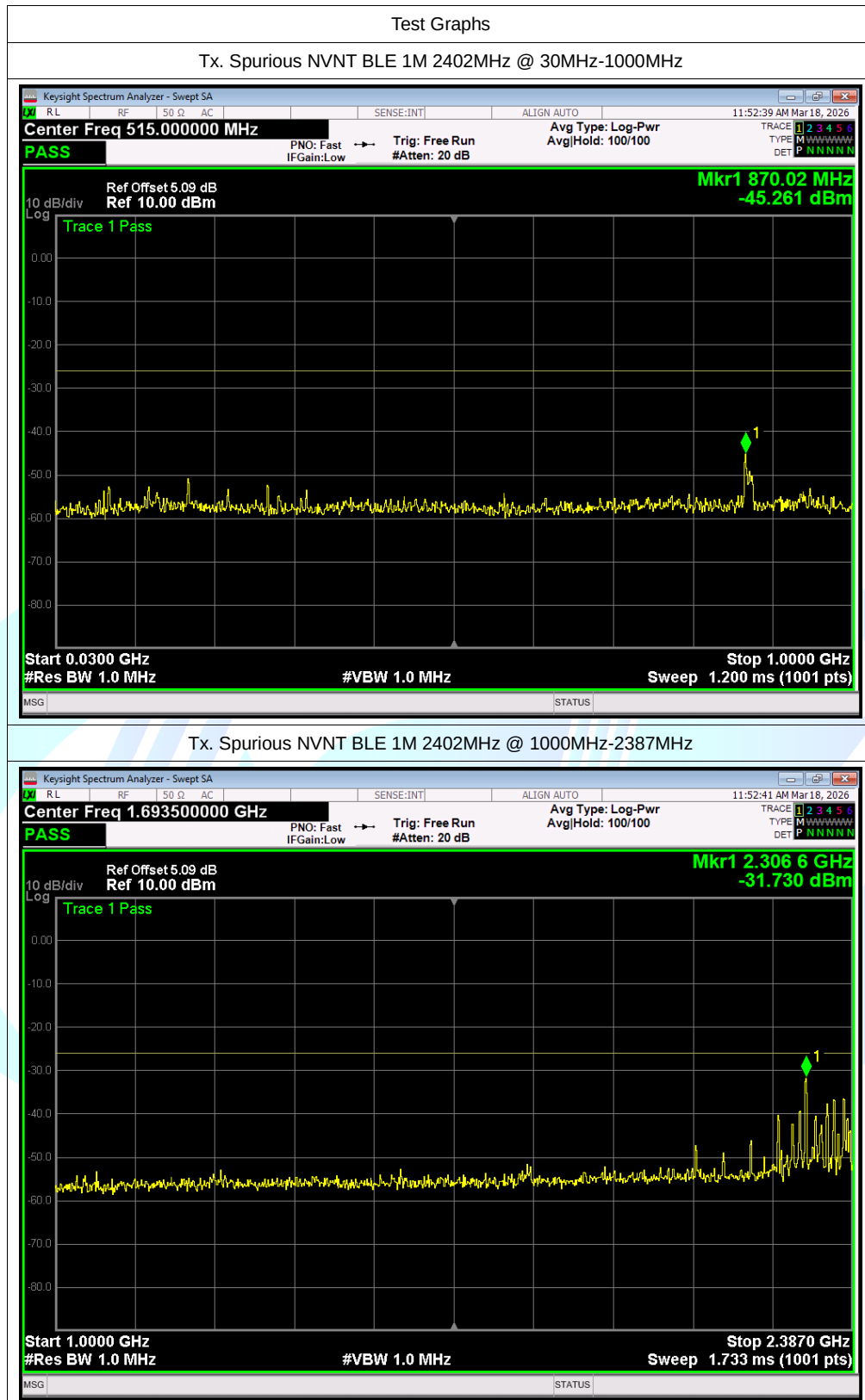
EIRP Power

Condition	Mode	Frequency (MHz)	Antenna Power (mW)	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	0.701	-1.54	2.71	1.17	12.14	Pass
		2440	0.382	-4.18	2.71	-1.47	12.14	Pass
		2480	0.238	-6.24	2.71	-3.53	12.14	Pass

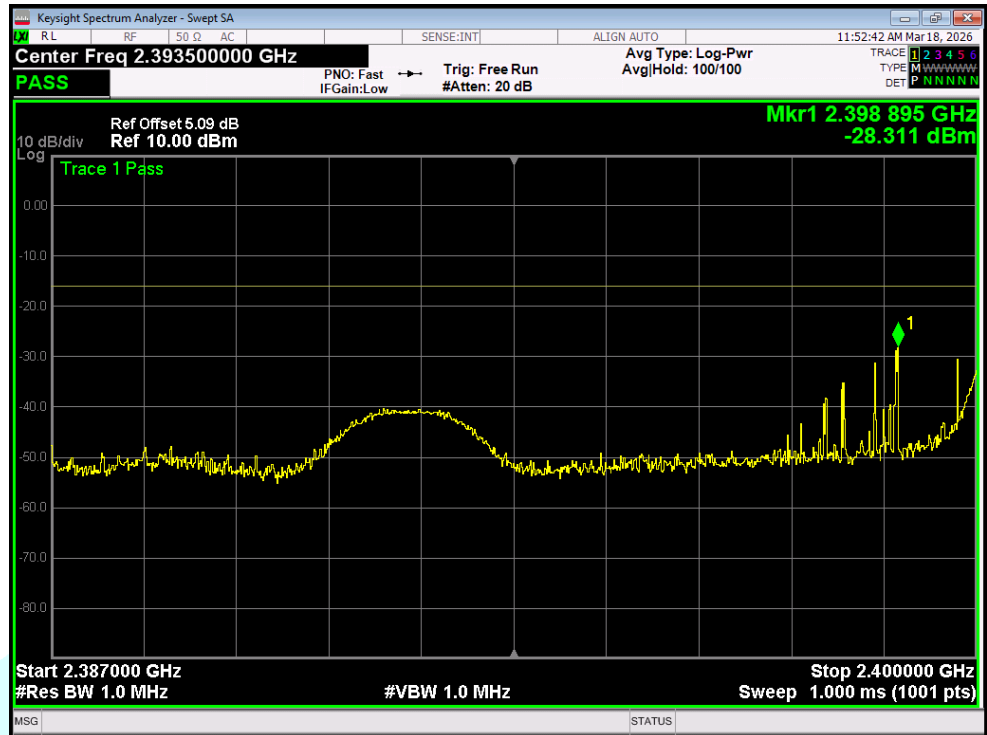


Tx Spurious Emission

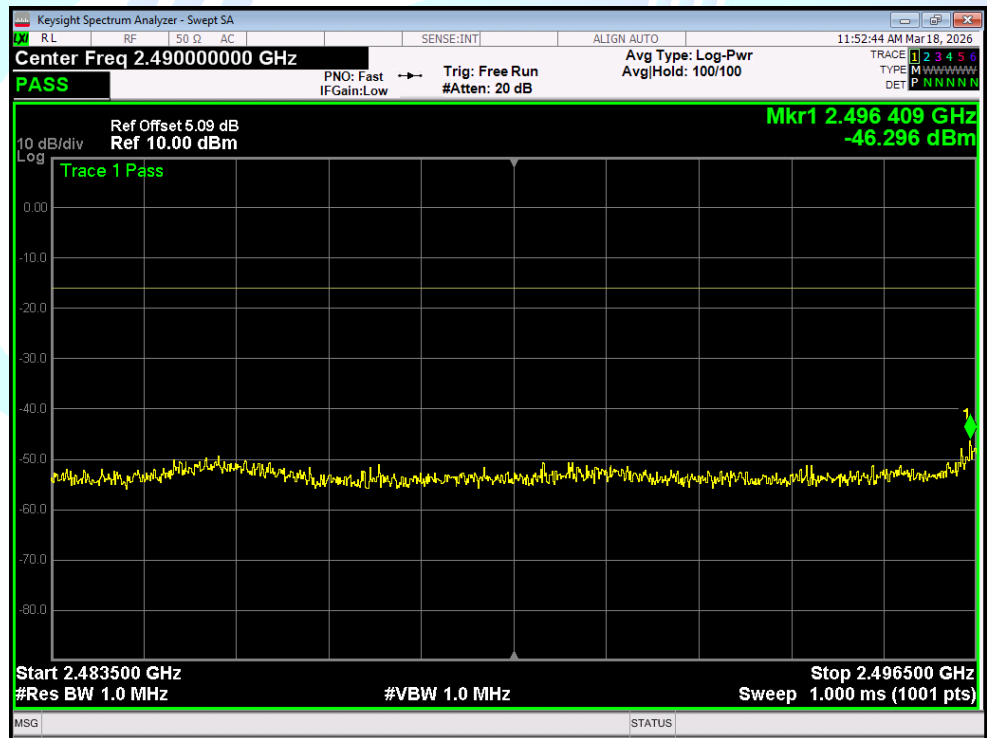
Condition	Mode	Freq. (MHz)	Range (MHz)	Emission Freq. (MHz)	Max Peak Value (dBm)	Max Peak Value (uW)	Limit Start (uW)	Limit Stop (uW)	Verdict
NVNT	BLE 1M	2402	30-1000	870.02	-45.26	0.0298	2.5	2.5	Pass
		2402	1000-2387	2306.55	-31.73	0.6714	2.5	2.5	Pass
		2402	2387-2400	2398.90	-28.31	1.4757	25	25	Pass
		2402	2483.5-2496.5	2496.41	-46.29	0.0235	25	25	Pass
		2402	2496.5-13000	2496.50	-37.05	0.1972	2.5	2.5	Pass
NVNT	BLE 1M	2440	30-1000	870.99	-44.04	0.0394	2.5	2.5	Pass
		2440	1000-2387	2344.00	-31.74	0.6699	2.5	2.5	Pass
		2440	2387-2400	2391.75	-38.84	0.1306	25	25	Pass
		2440	2483.5-2496.5	2488.21	-43.03	0.0498	25	25	Pass
		2440	2496.5-13000	2538.51	-39.06	0.1242	2.5	2.5	Pass
NVNT	BLE 1M	2480	30-1000	870.02	-47.58	0.0175	2.5	2.5	Pass
		2480	1000-2387	2384.23	-34.40	0.3631	2.5	2.5	Pass
		2480	2387-2400	2399.97	-44.50	0.0355	25	25	Pass
		2480	2483.5-2496.5	2489.35	-46.23	0.0238	25	25	Pass
		2480	2496.5-13000	2580.53	-40.95	0.0804	2.5	2.5	Pass

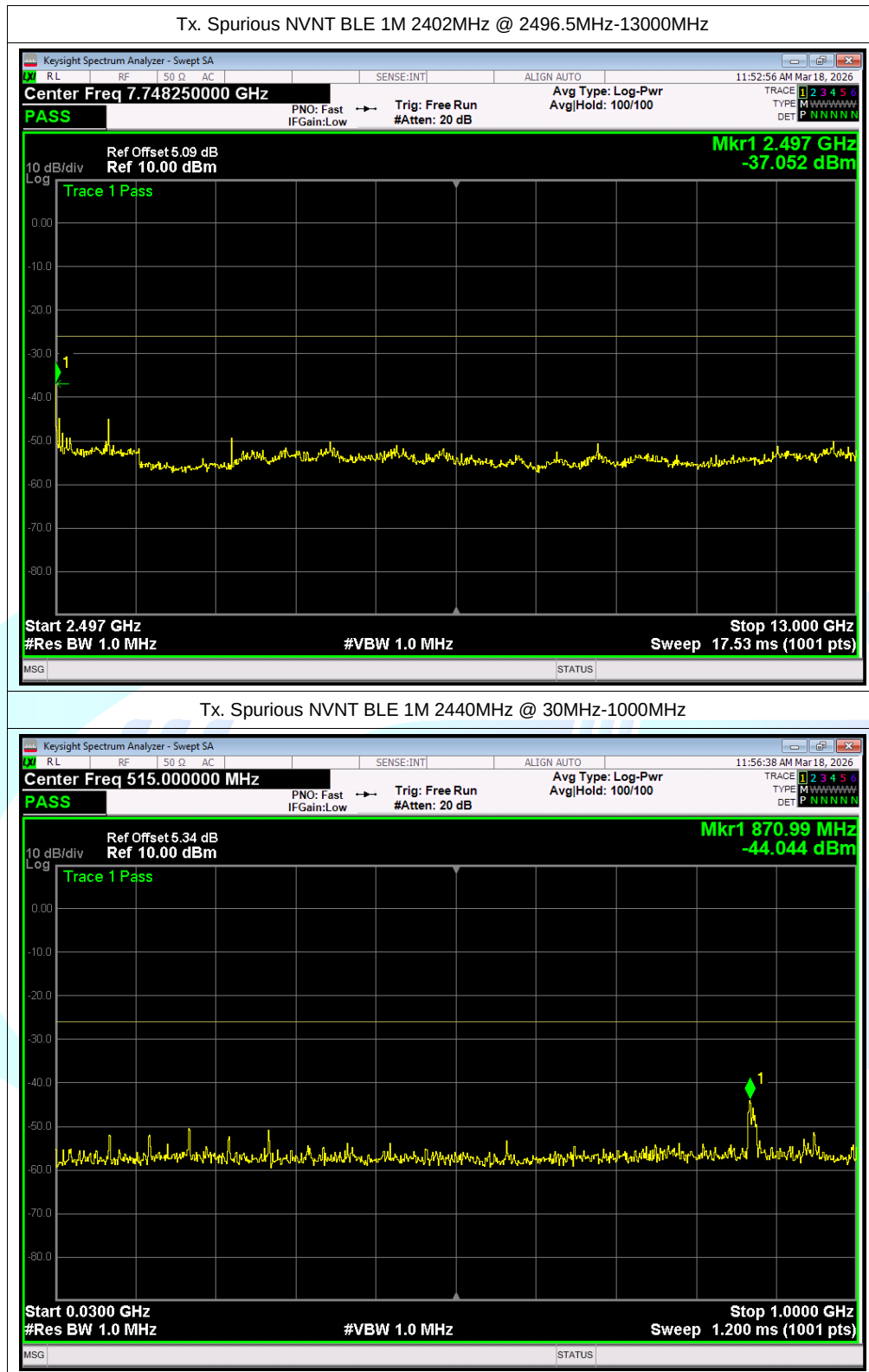


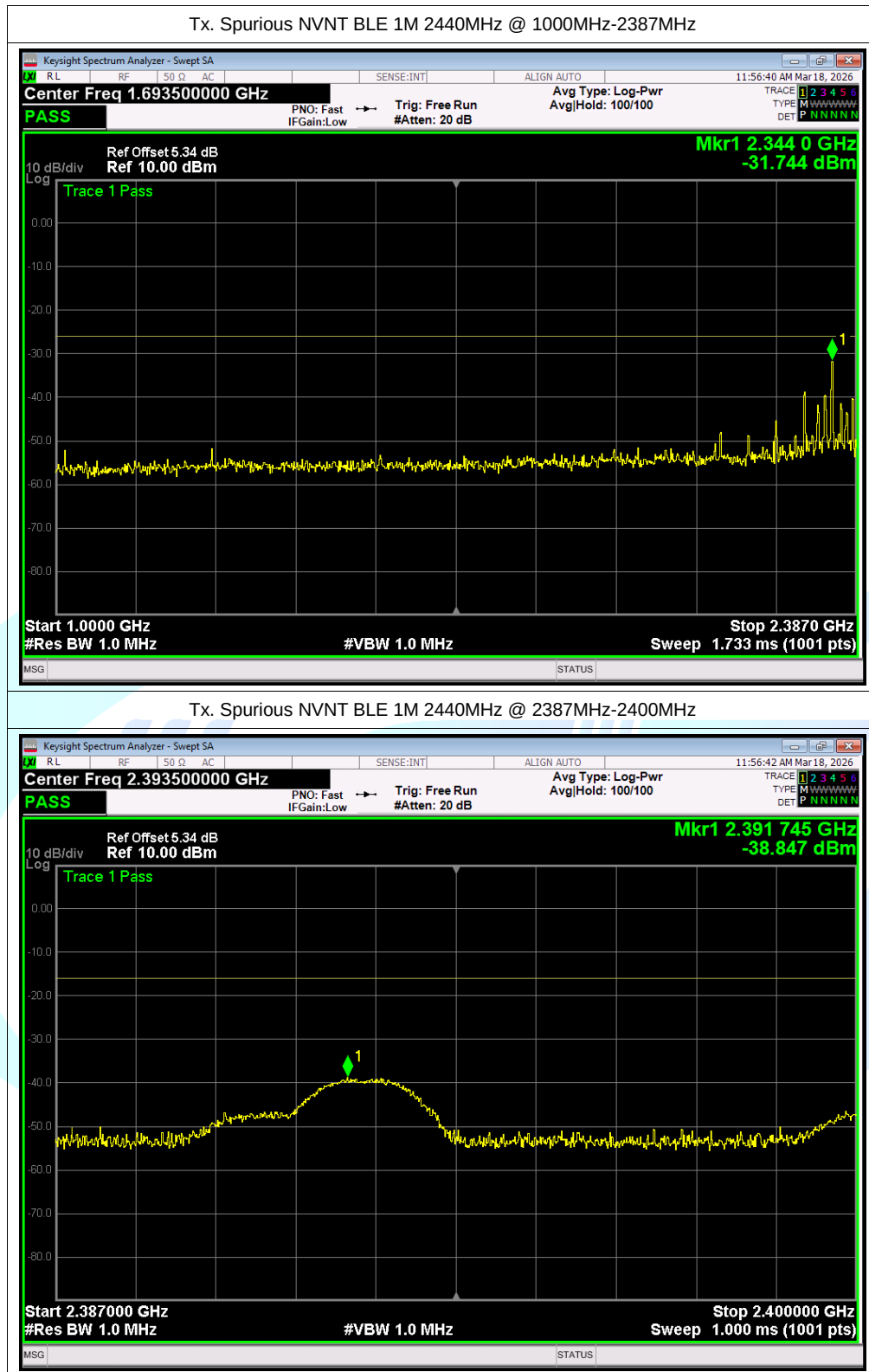
Tx. Spurious NVNT BLE 1M 2402MHz @ 2387MHz-2400MHz

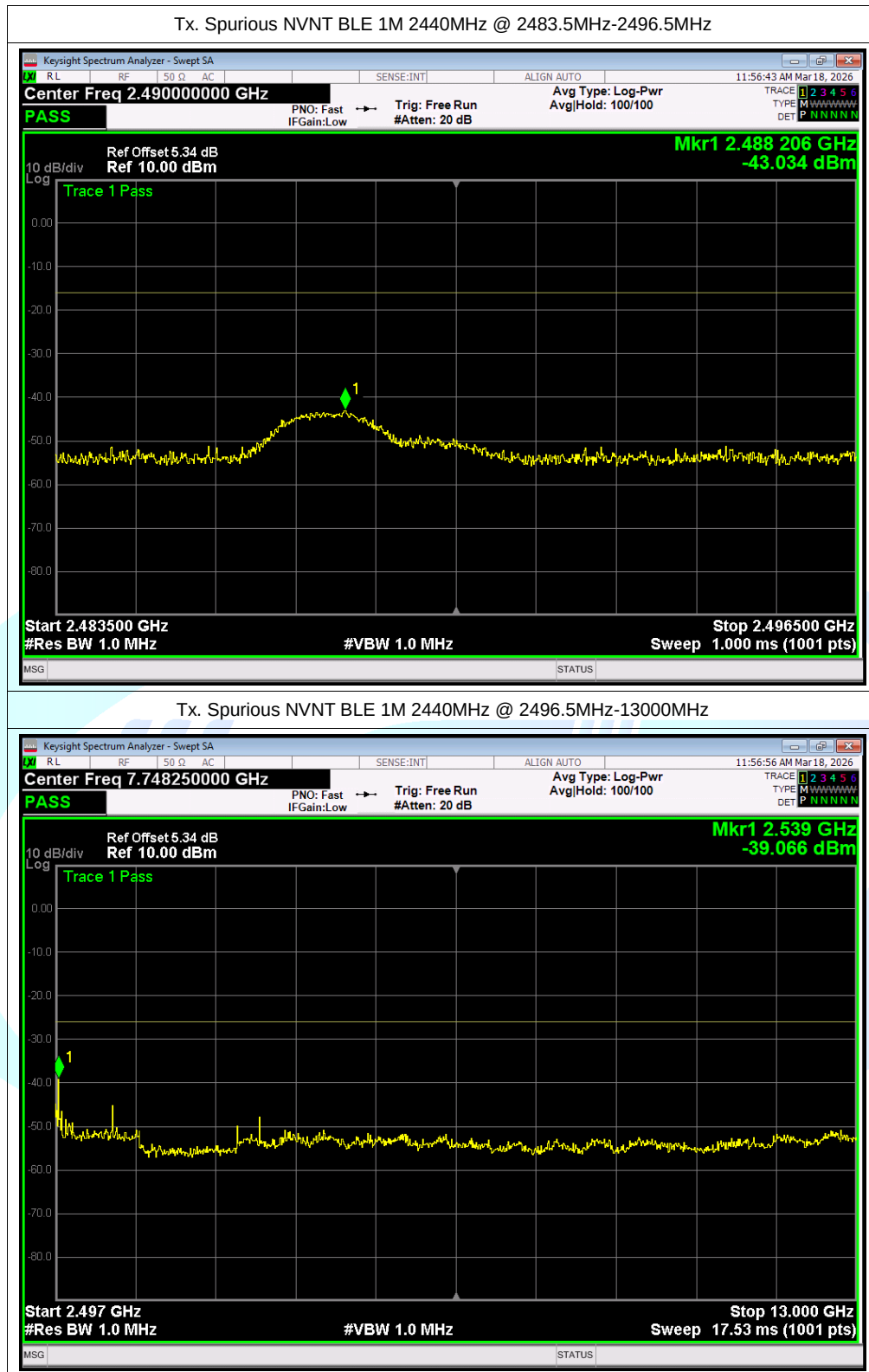


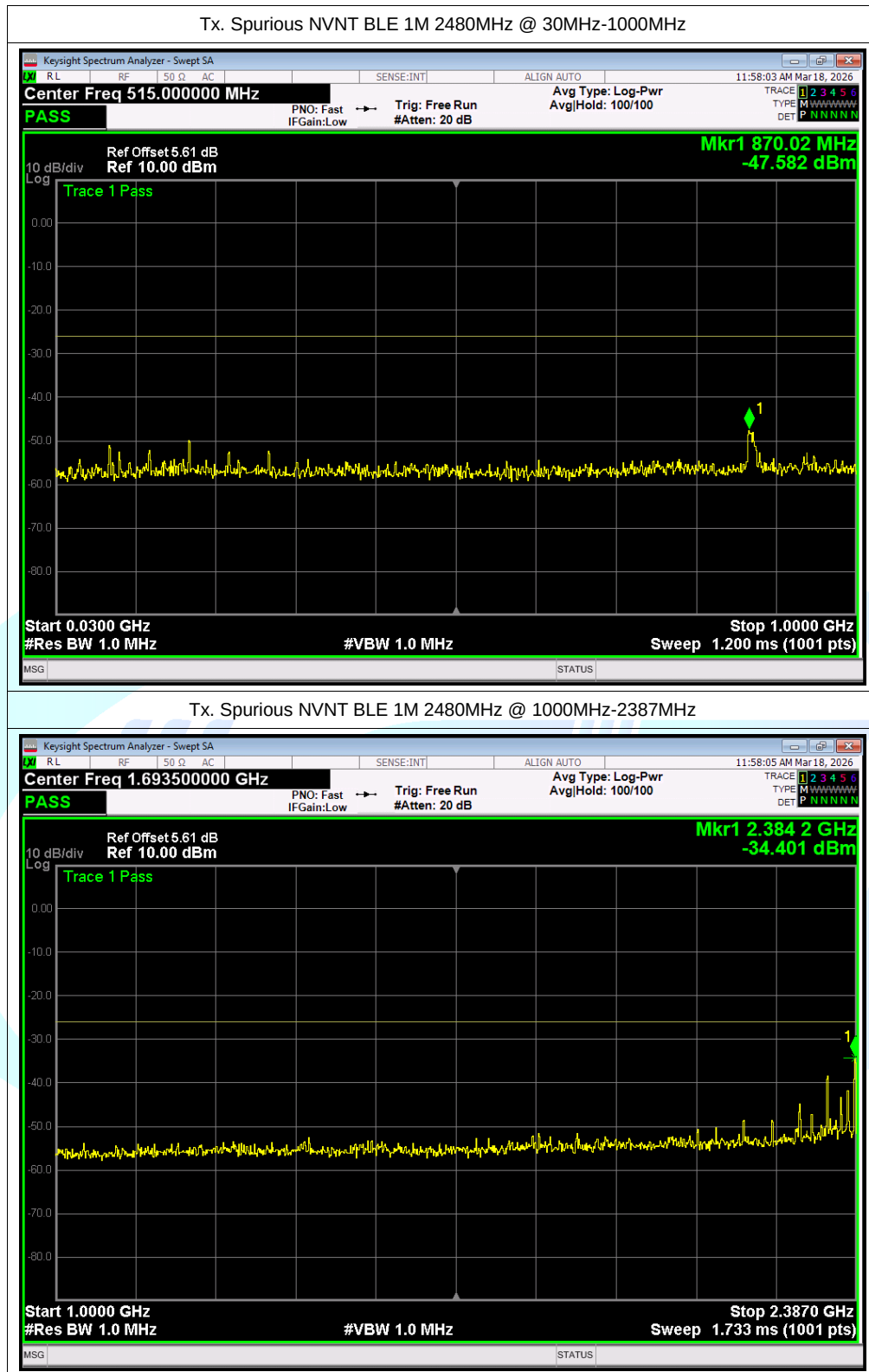
Tx. Spurious NVNT BLE 1M 2402MHz @ 2483.5MHz-2496.5MHz



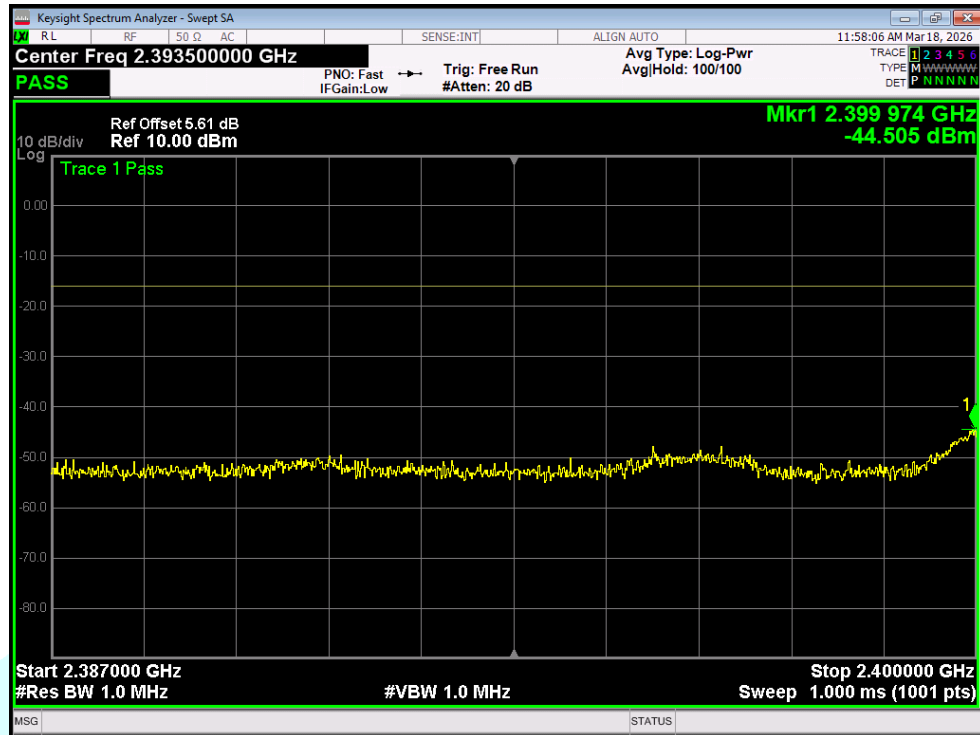




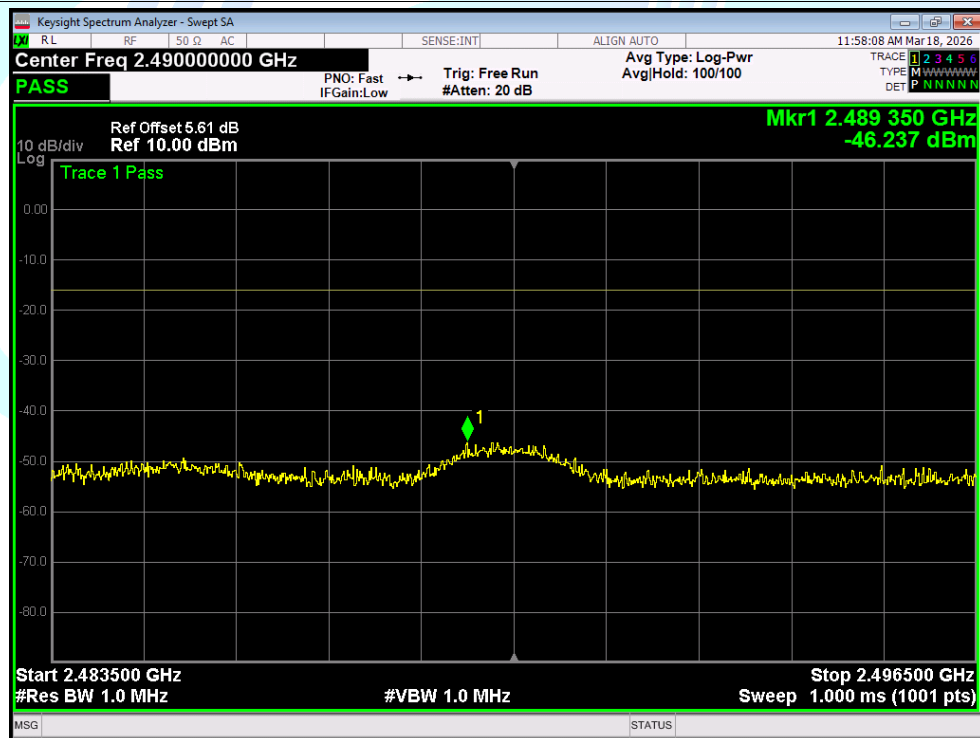


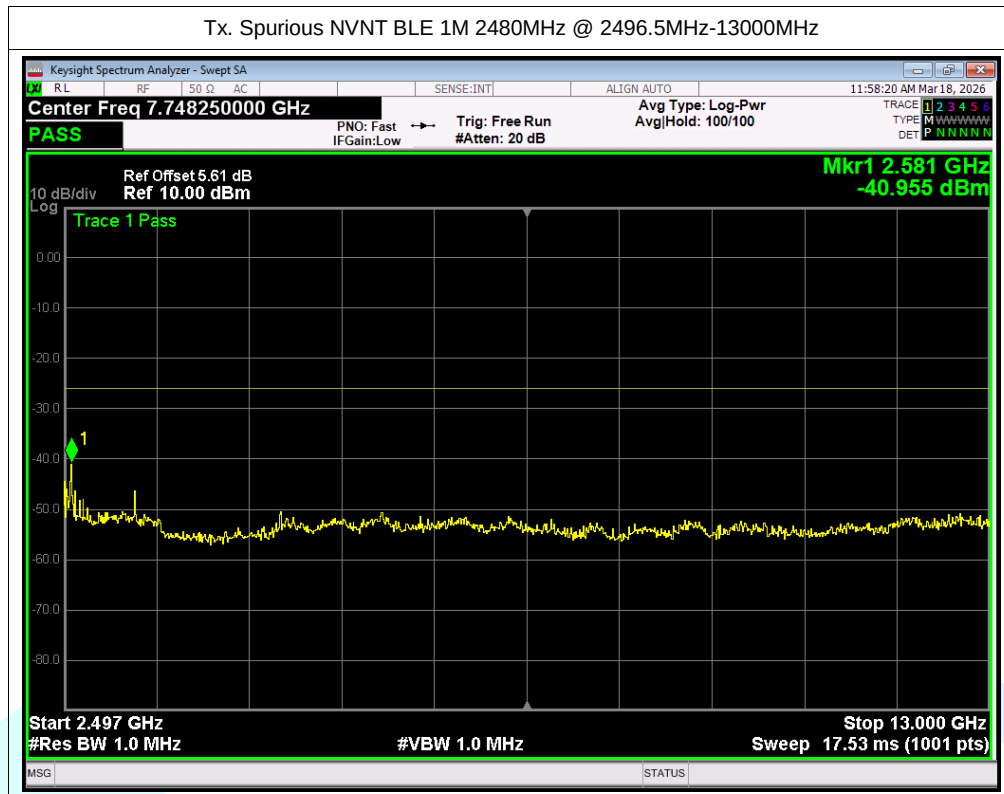


Tx. Spurious NVNT BLE 1M 2480MHz @ 2387MHz-2400MHz



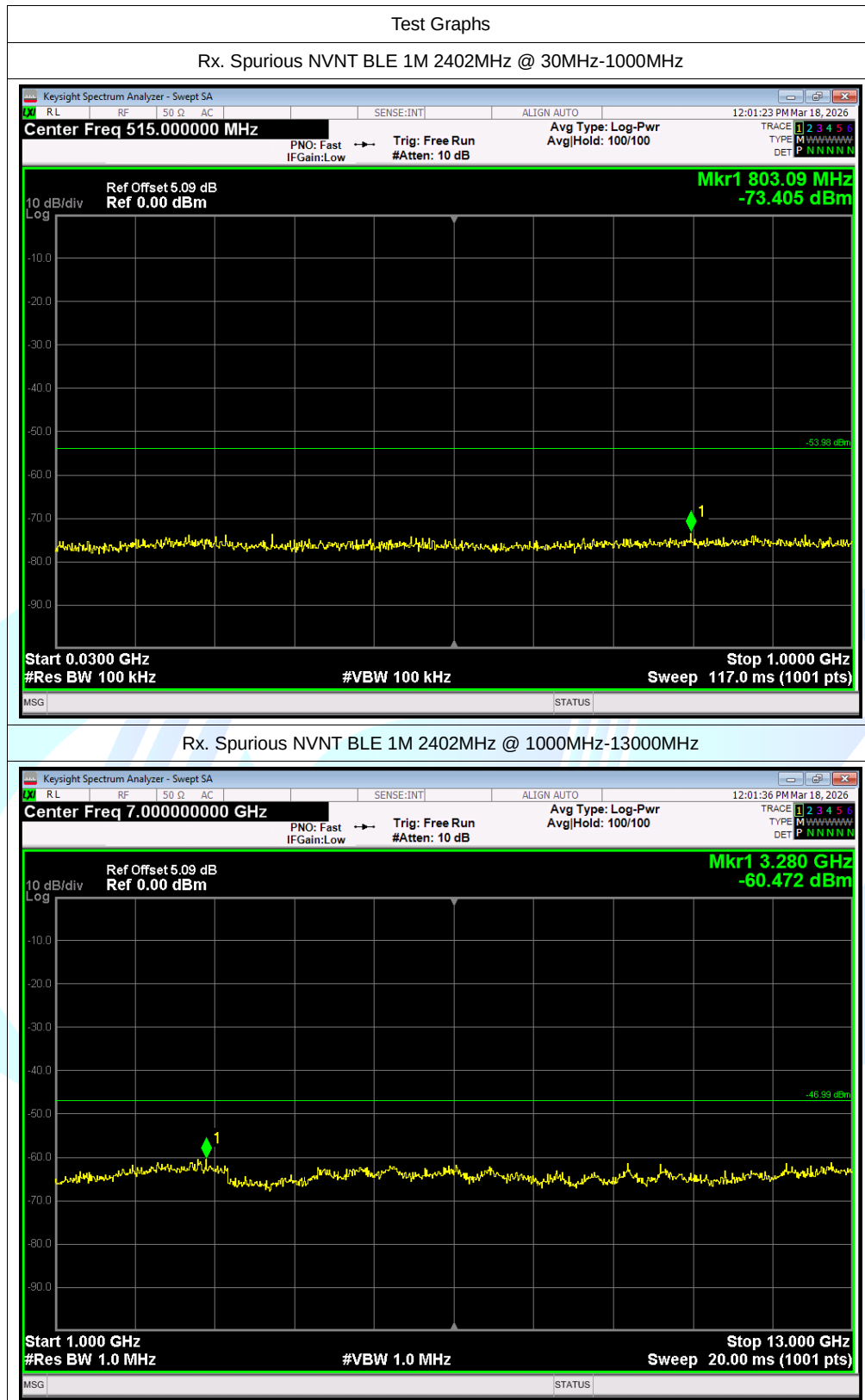
Tx. Spurious NVNT BLE 1M 2480MHz @ 2483.5MHz-2496.5MHz

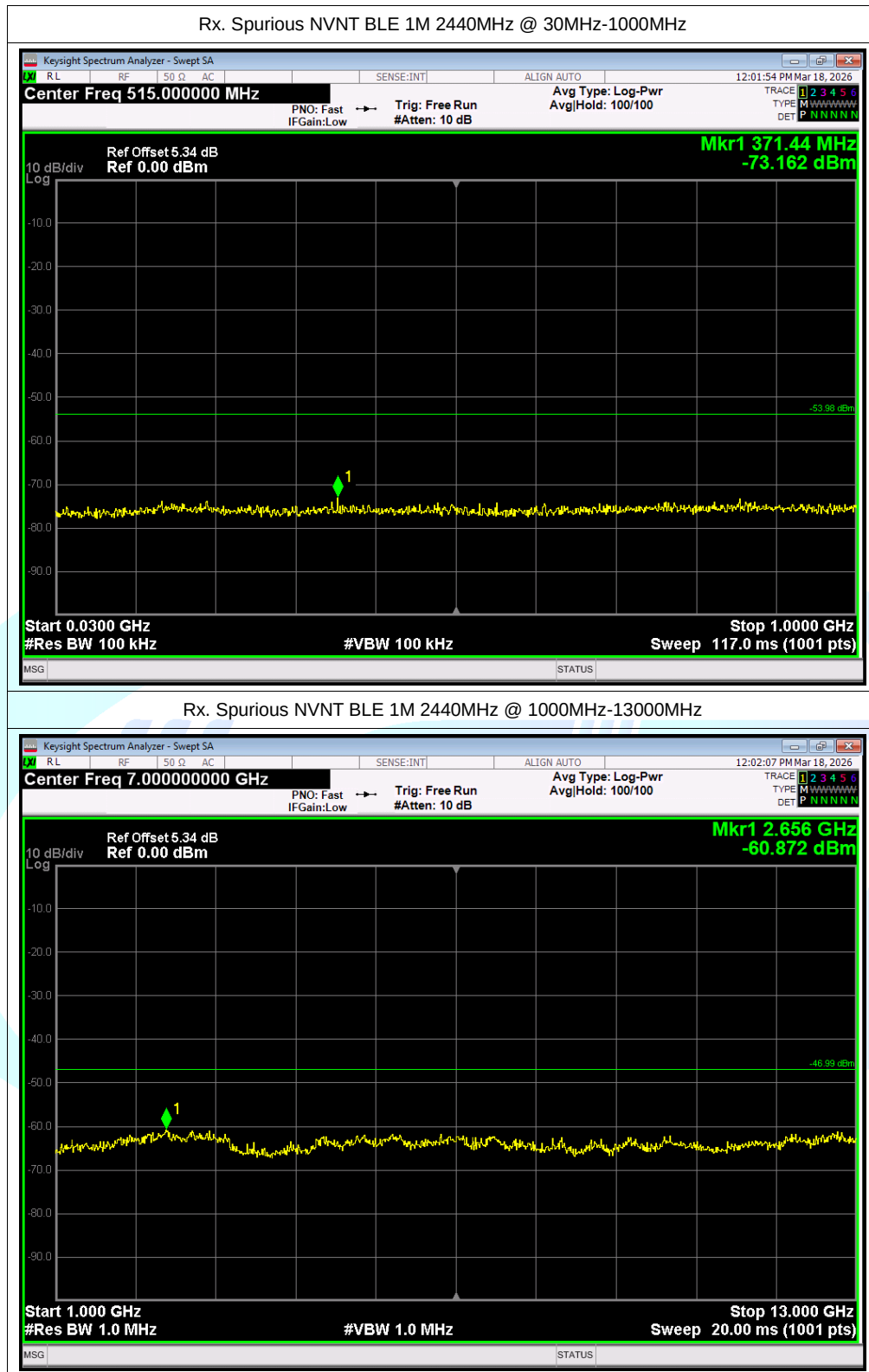


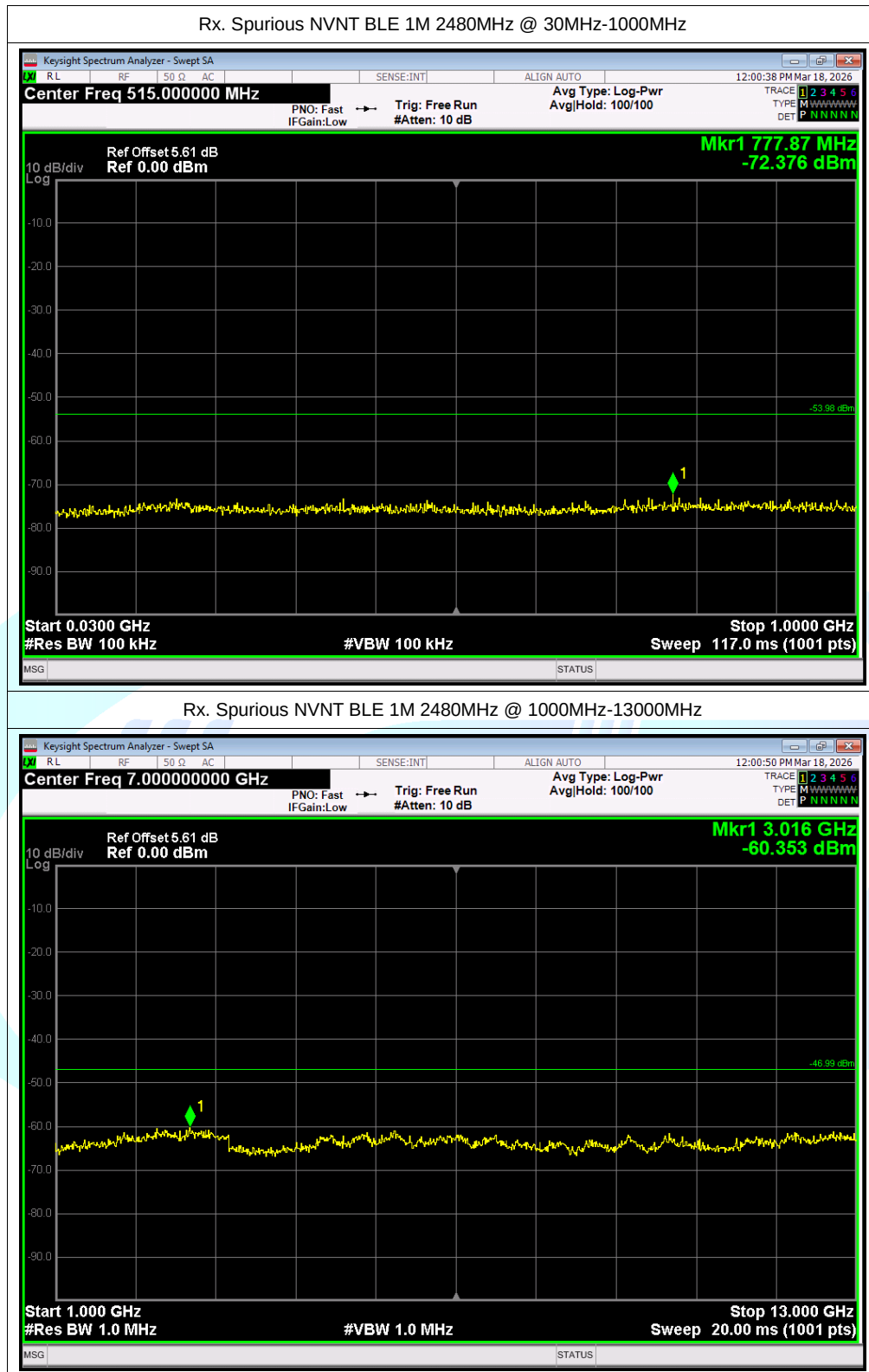


Rx Spurious Emission

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max Peak Value (nW)	Limit (nW)	Verdict
NVNT	BLE 1M	2402	30-1000	803.09	-73.41	0.0456	4	Pass
		2402	1000-13000	3280.00	-60.47	0.8974	20	Pass
NVNT	BLE 1M	2440	30-1000	371.44	-73.16	0.0483	4	Pass
		2440	1000-13000	2656.00	-60.87	0.8185	20	Pass
NVNT	BLE 1M	2480	30-1000	777.87	-72.38	0.0578	4	Pass
		2480	1000-13000	3016.00	-60.35	0.9226	20	Pass







---AND---