

Appendix – BLE Test Data

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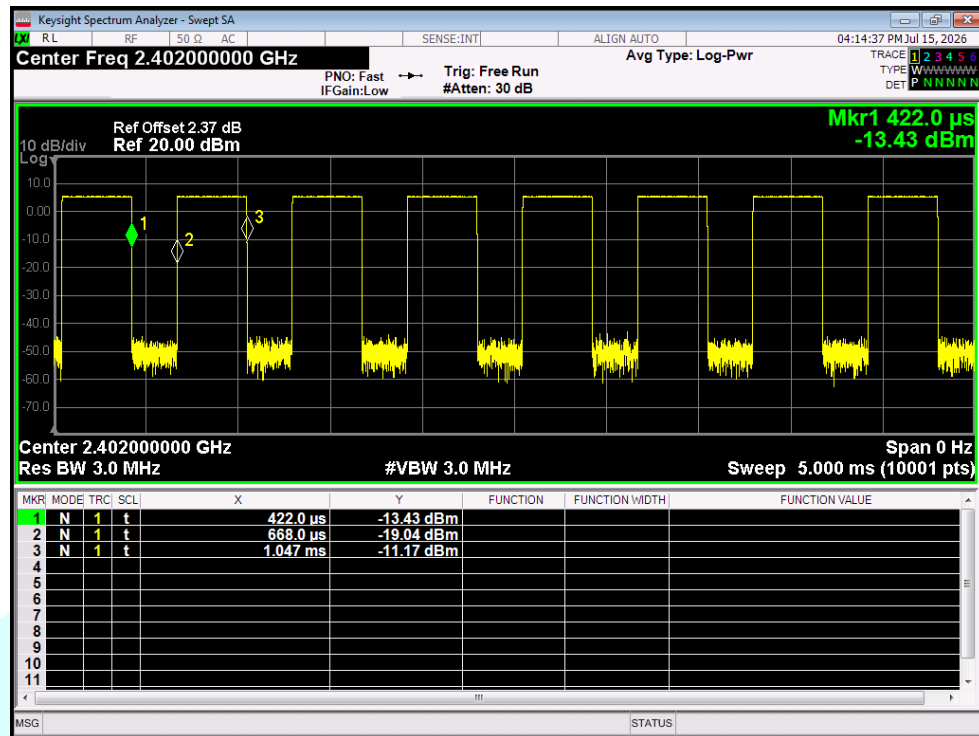
1 Duty Cycle

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
BLE 1M	2402	60.64	2.17	2.64
	2440	60.56	2.18	2.64
	2480	60.56	2.18	2.64
BLE 2M	2402	30.96	5.09	5.17
	2440	30.96	5.09	5.17
	2480	30.96	5.09	5.17

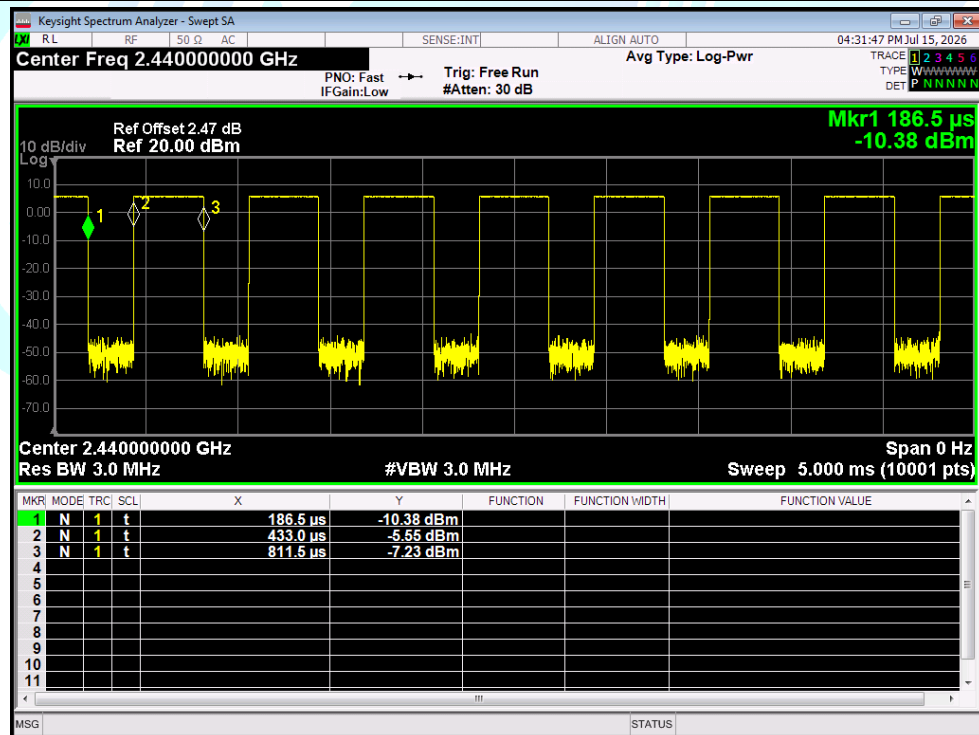


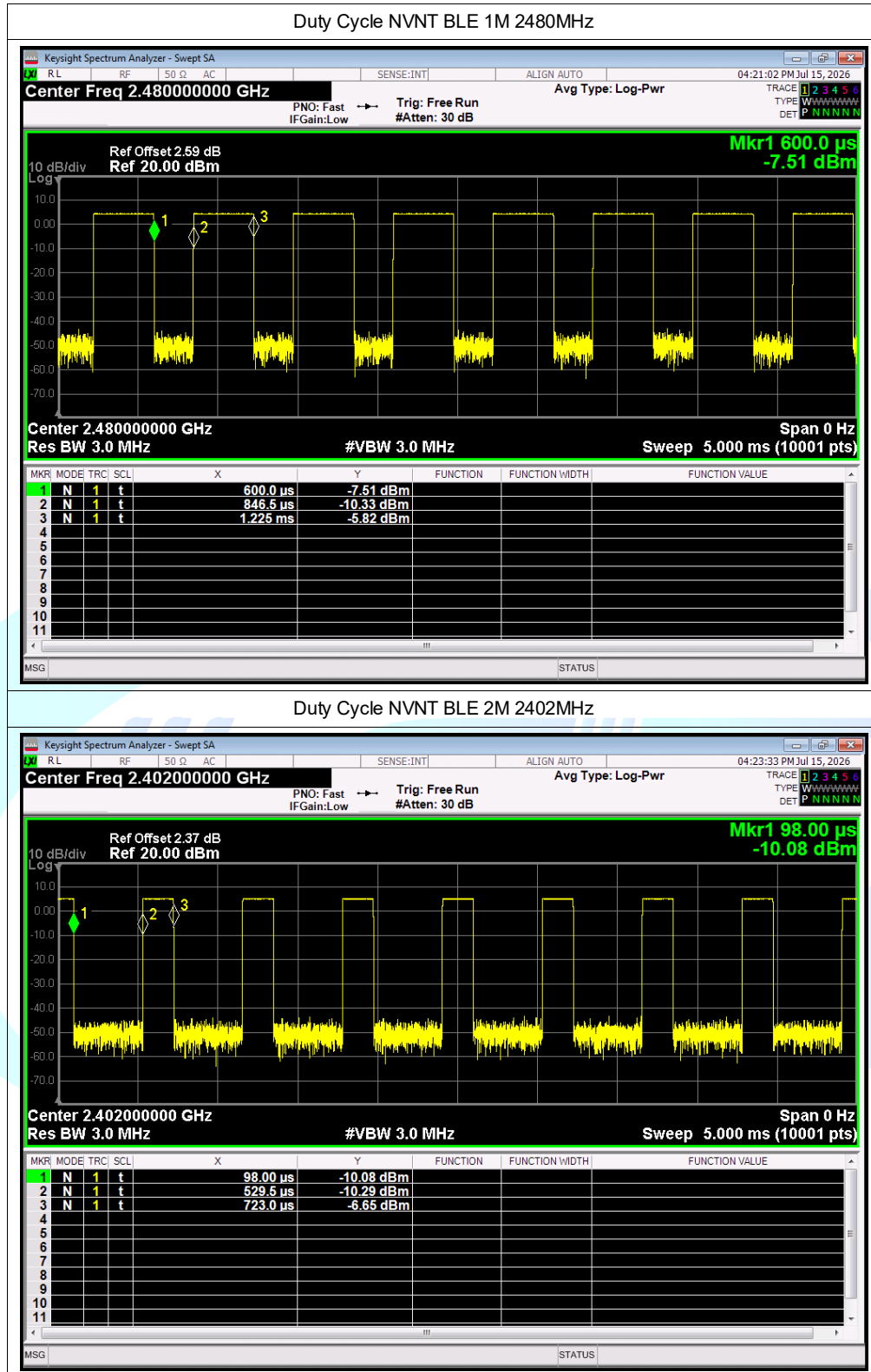
Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz



Duty Cycle NVNT BLE 1M 2440MHz



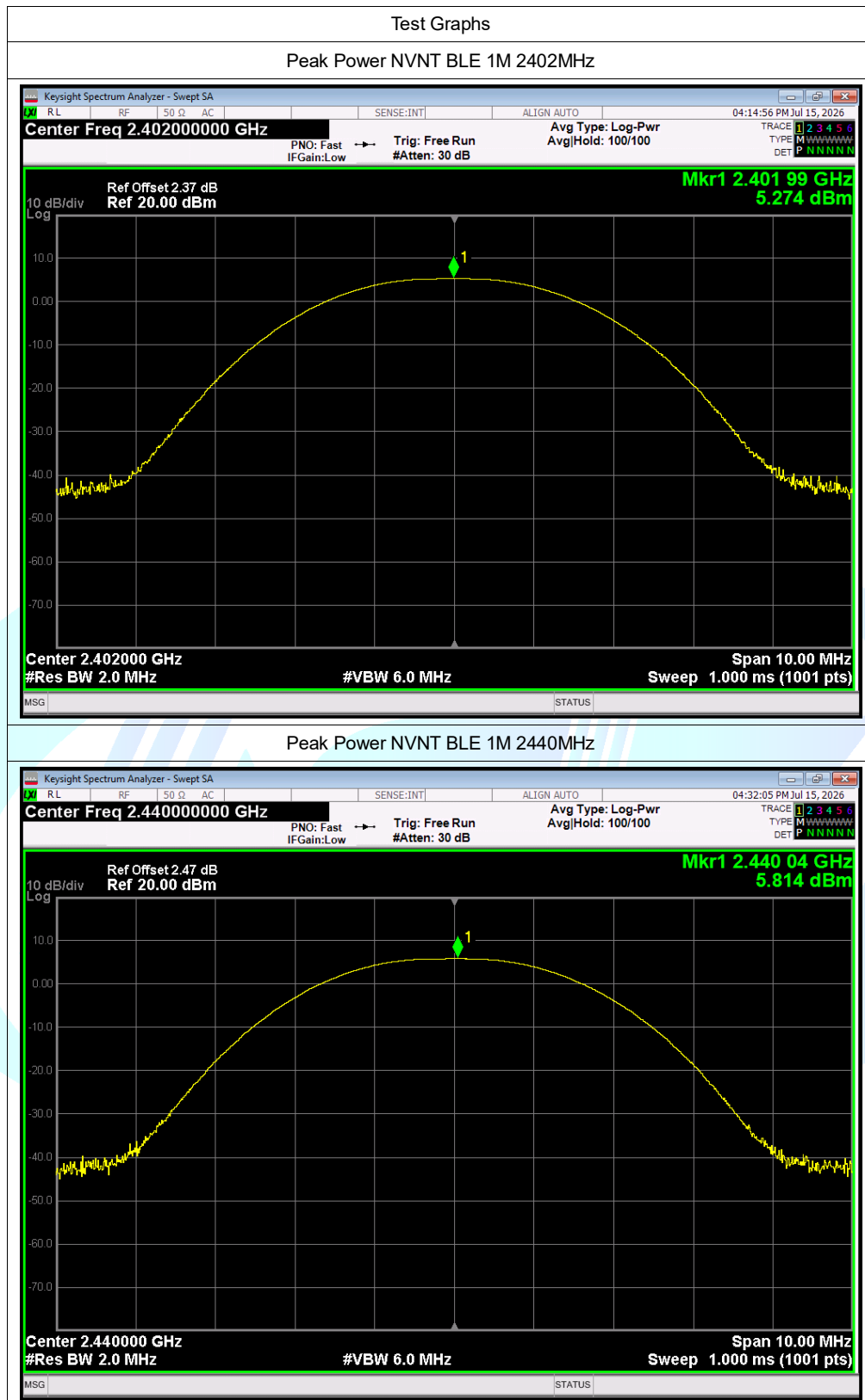


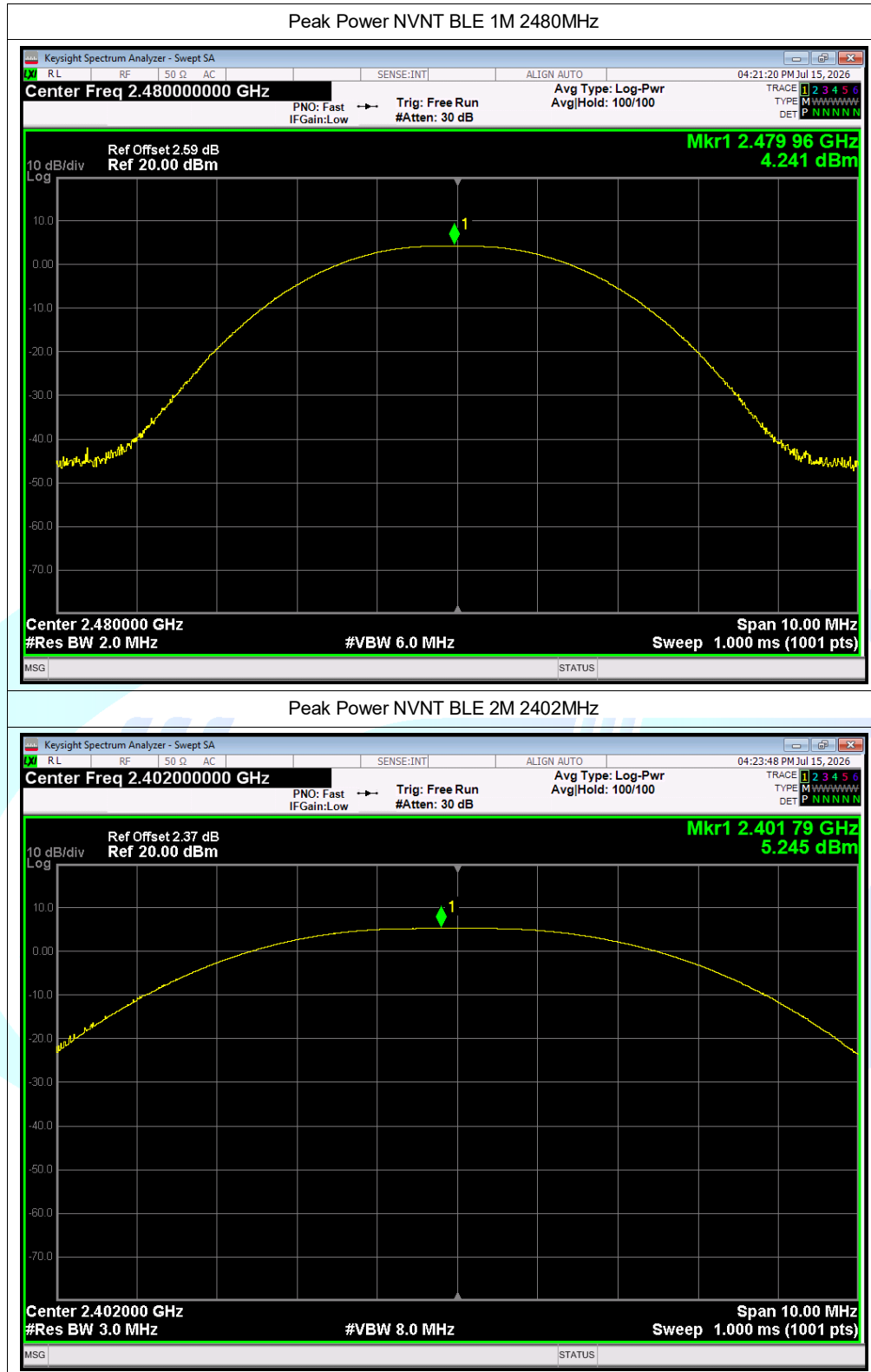


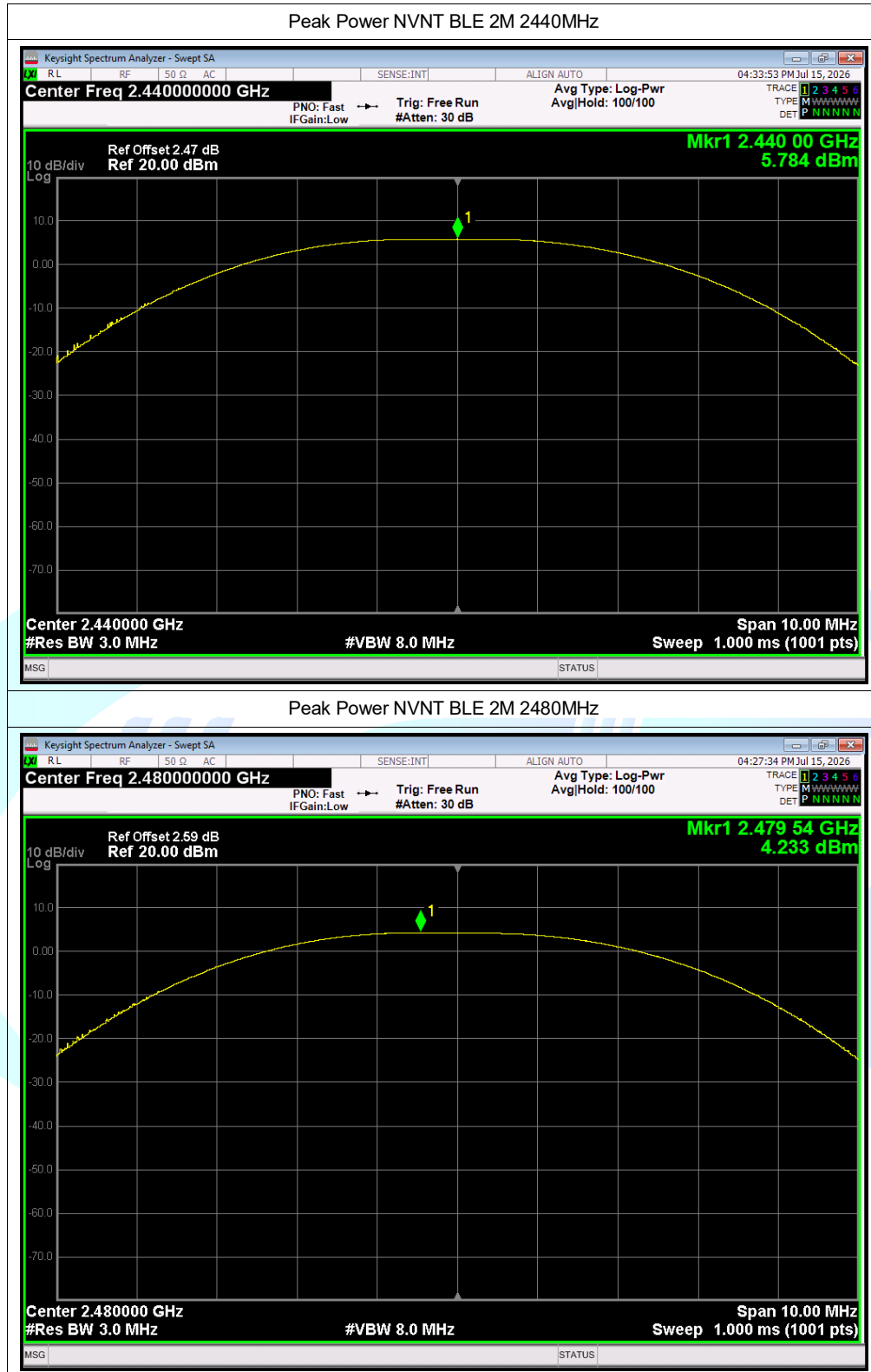
2 Maximum Peak Conducted Output Power

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	5.27	30	Pass
	2440	5.81	30	Pass
	2480	4.24	30	Pass
BLE 2M	2402	5.25	30	Pass
	2440	5.78	30	Pass
	2480	4.23	30	Pass









3 -6dB Bandwidth

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.7008	0.5	Pass
	2440	0.7051	0.5	Pass
	2480	0.7064	0.5	Pass
BLE 2M	2402	1.261	0.5	Pass
	2440	1.273	0.5	Pass
	2480	1.216	0.5	Pass









4 Occupied Channel Bandwidth

Mode	Frequency (MHz)	99% OBW (MHz)
BLE 1M	2402	1.0267
	2440	1.0334
	2480	1.0302
BLE 2M	2402	2.0721
	2440	2.0624
	2480	2.0764





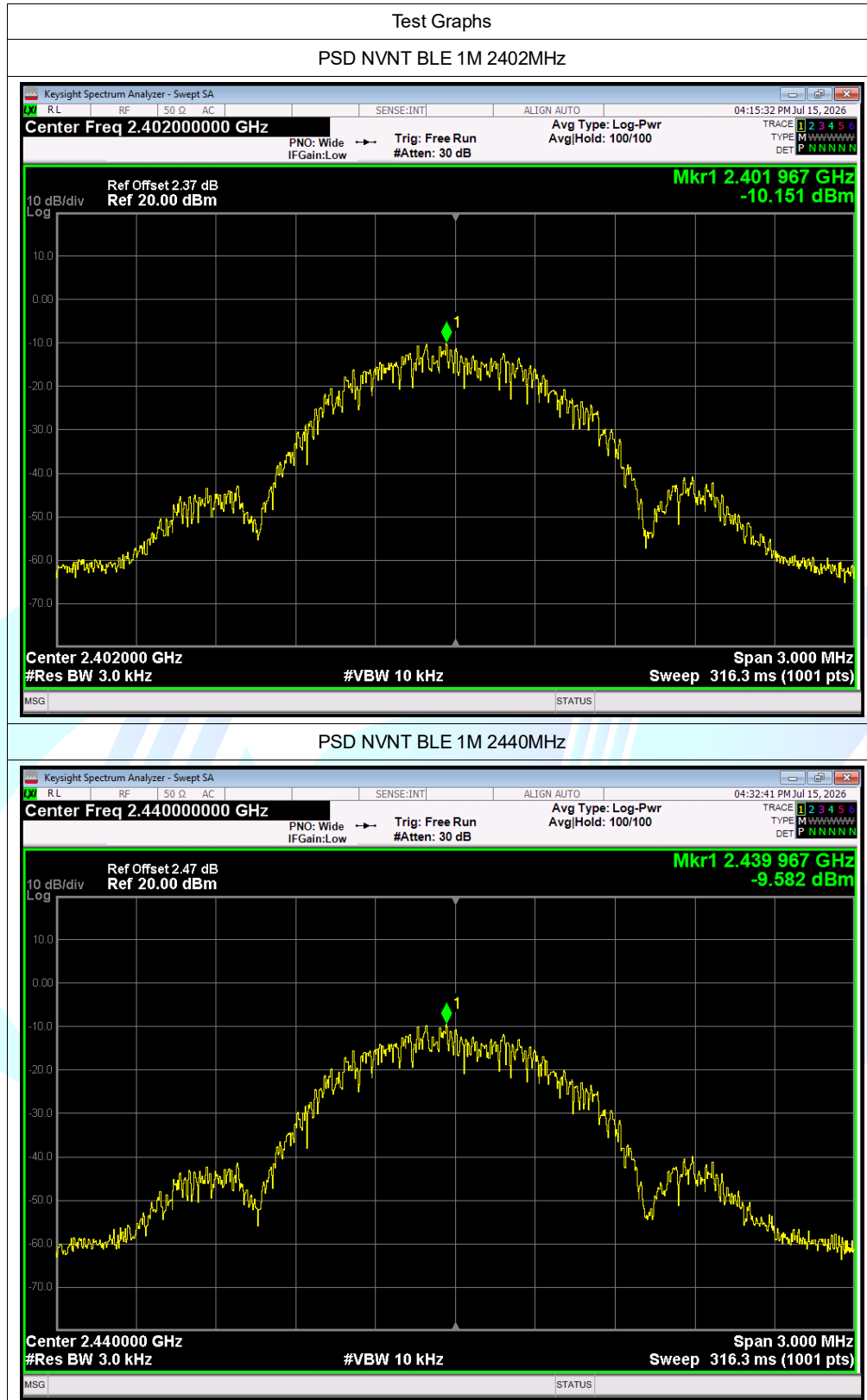


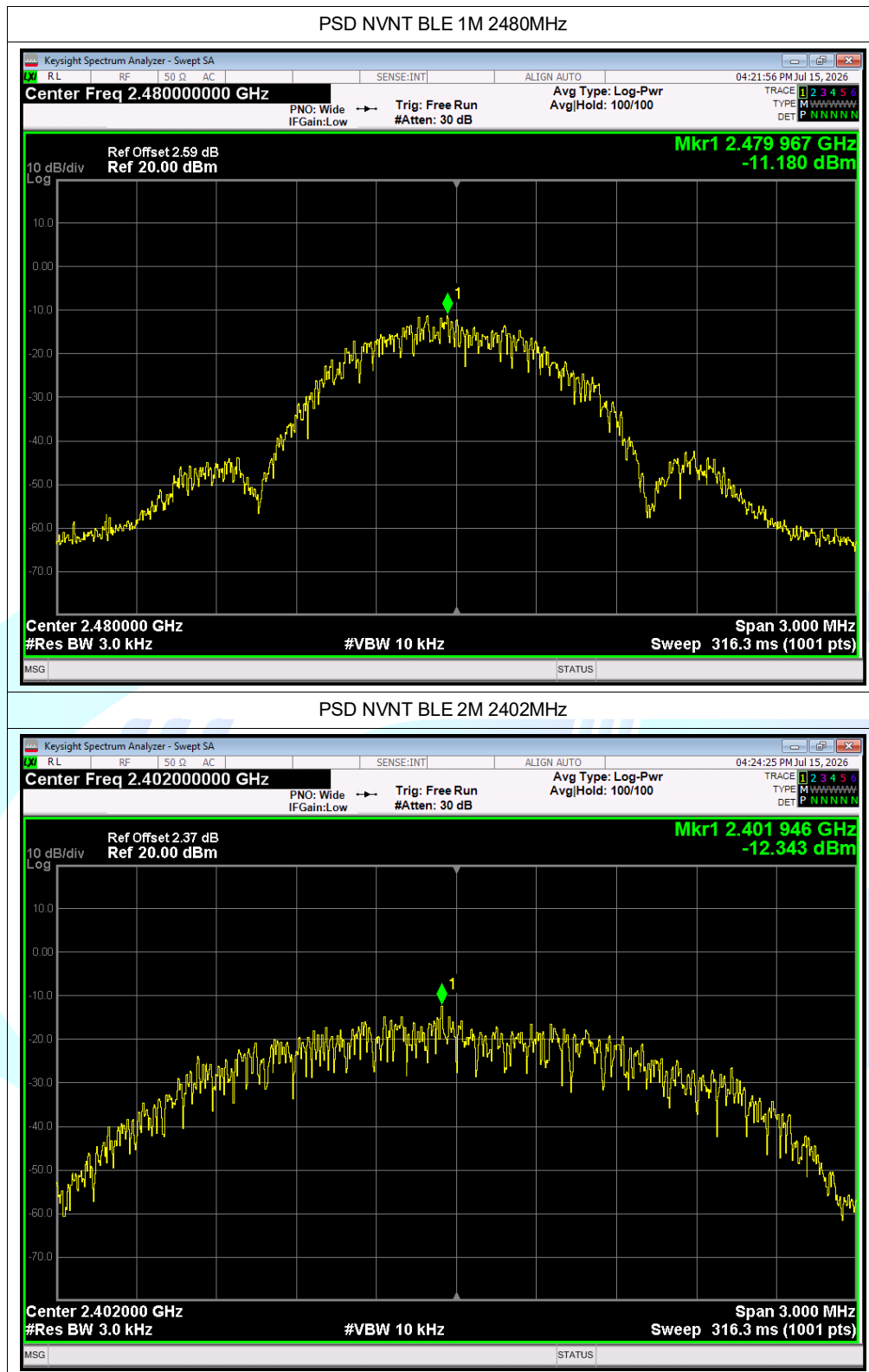


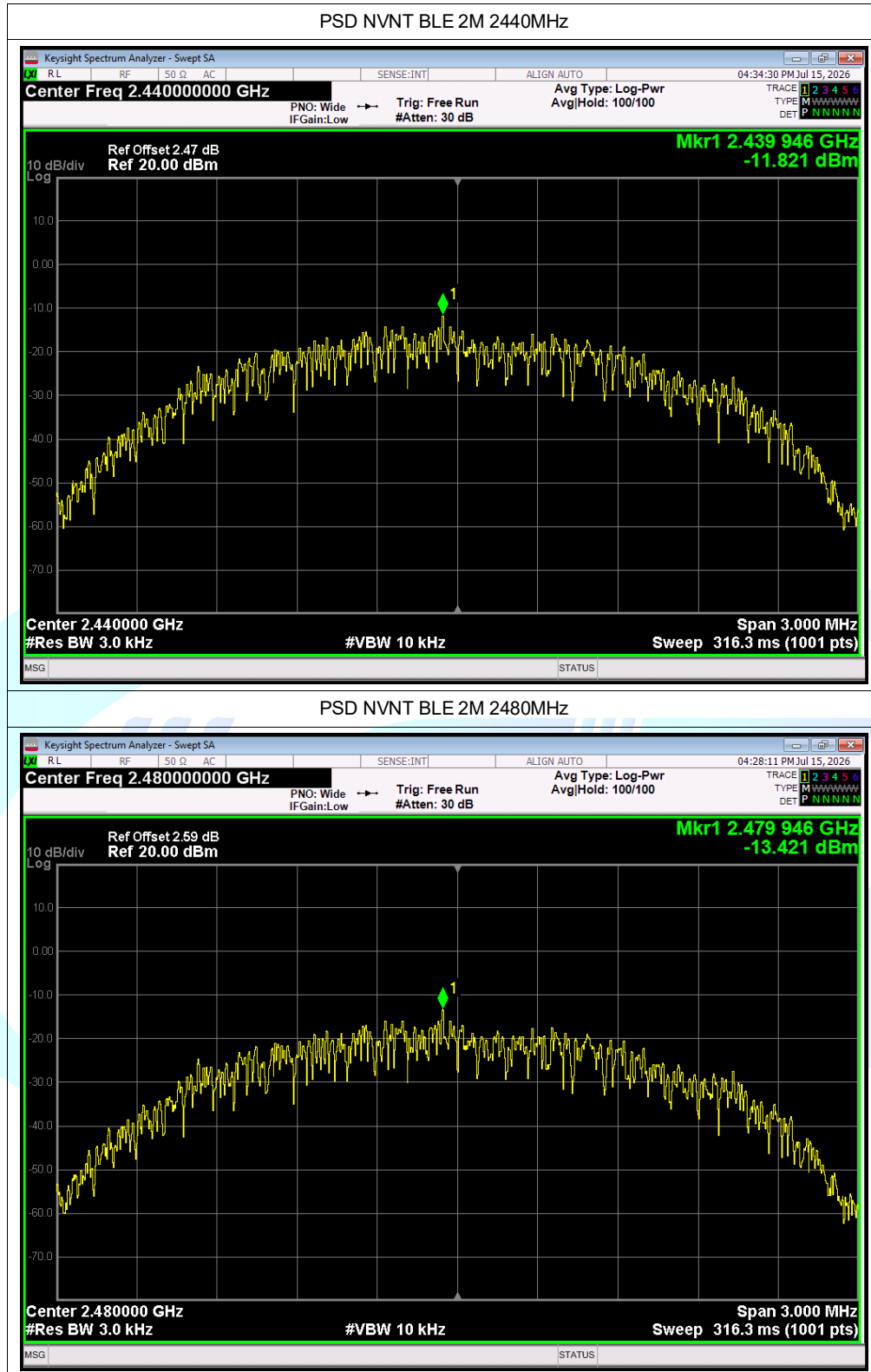
5 Maximum Power Spectral Density Level

Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-10.15	8	Pass
	2440	-9.58	8	Pass
	2480	-11.18	8	Pass
BLE 2M	2402	-12.34	8	Pass
	2440	-11.82	8	Pass
	2480	-13.42	8	Pass





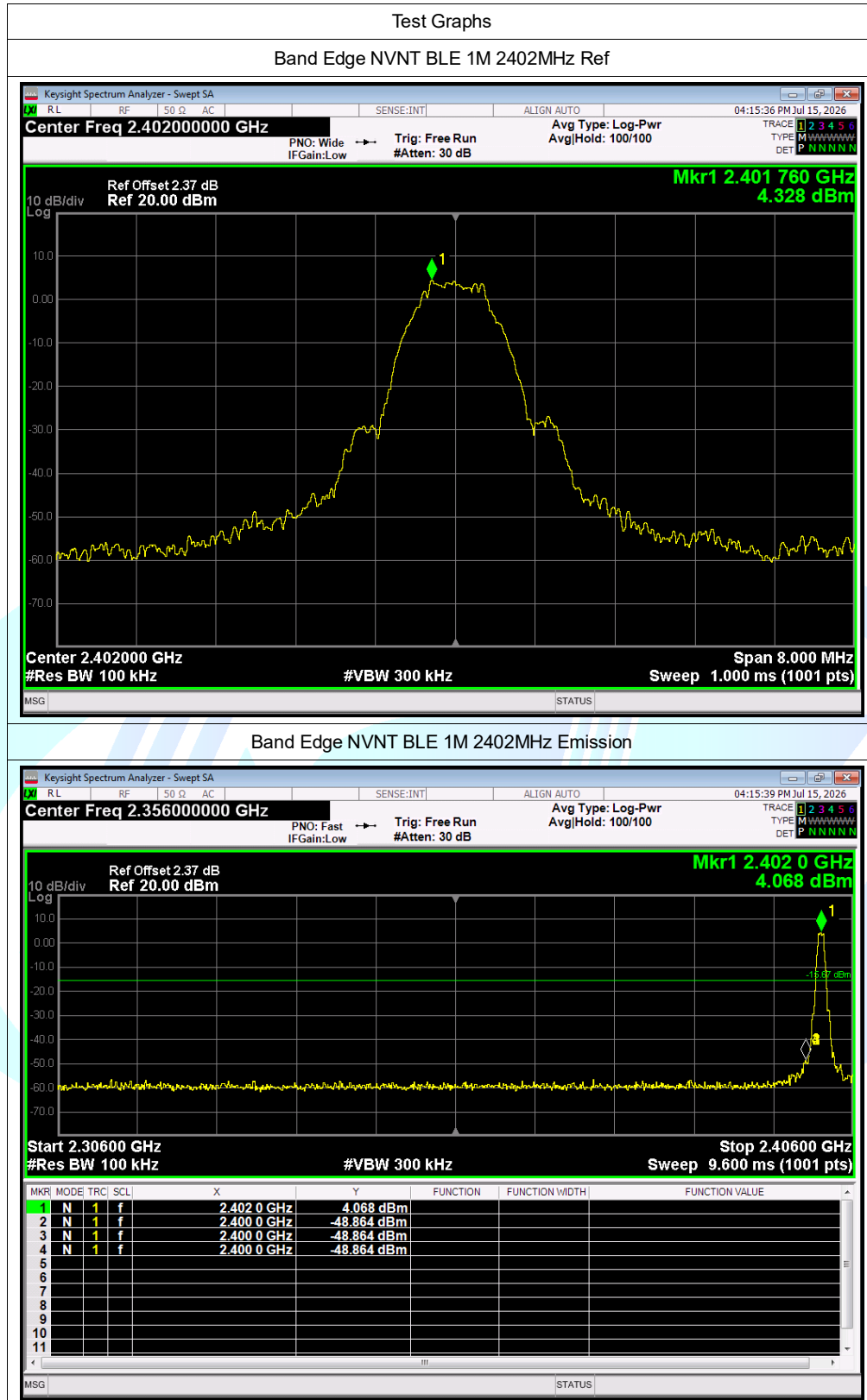


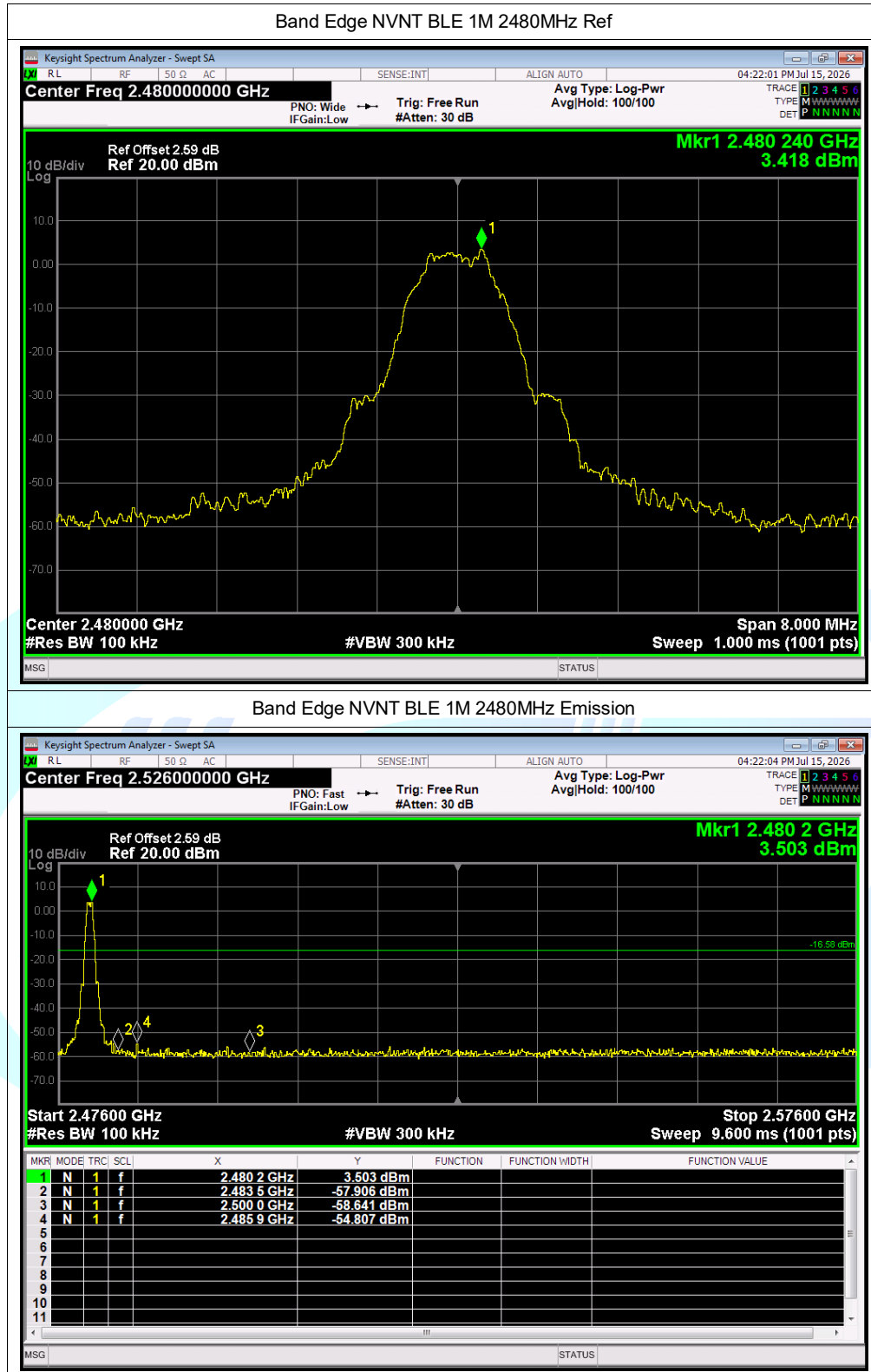


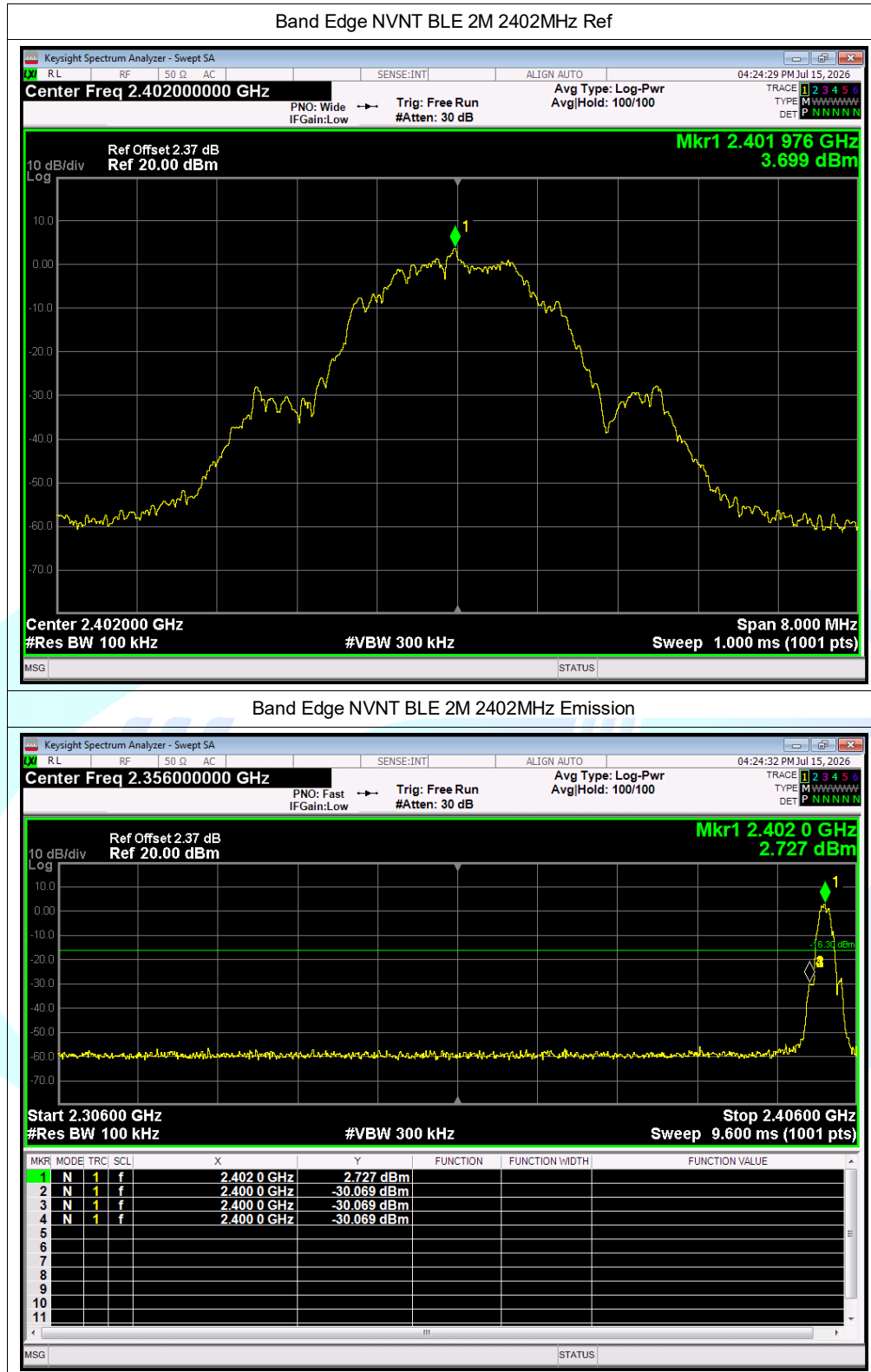
6 Band Edge

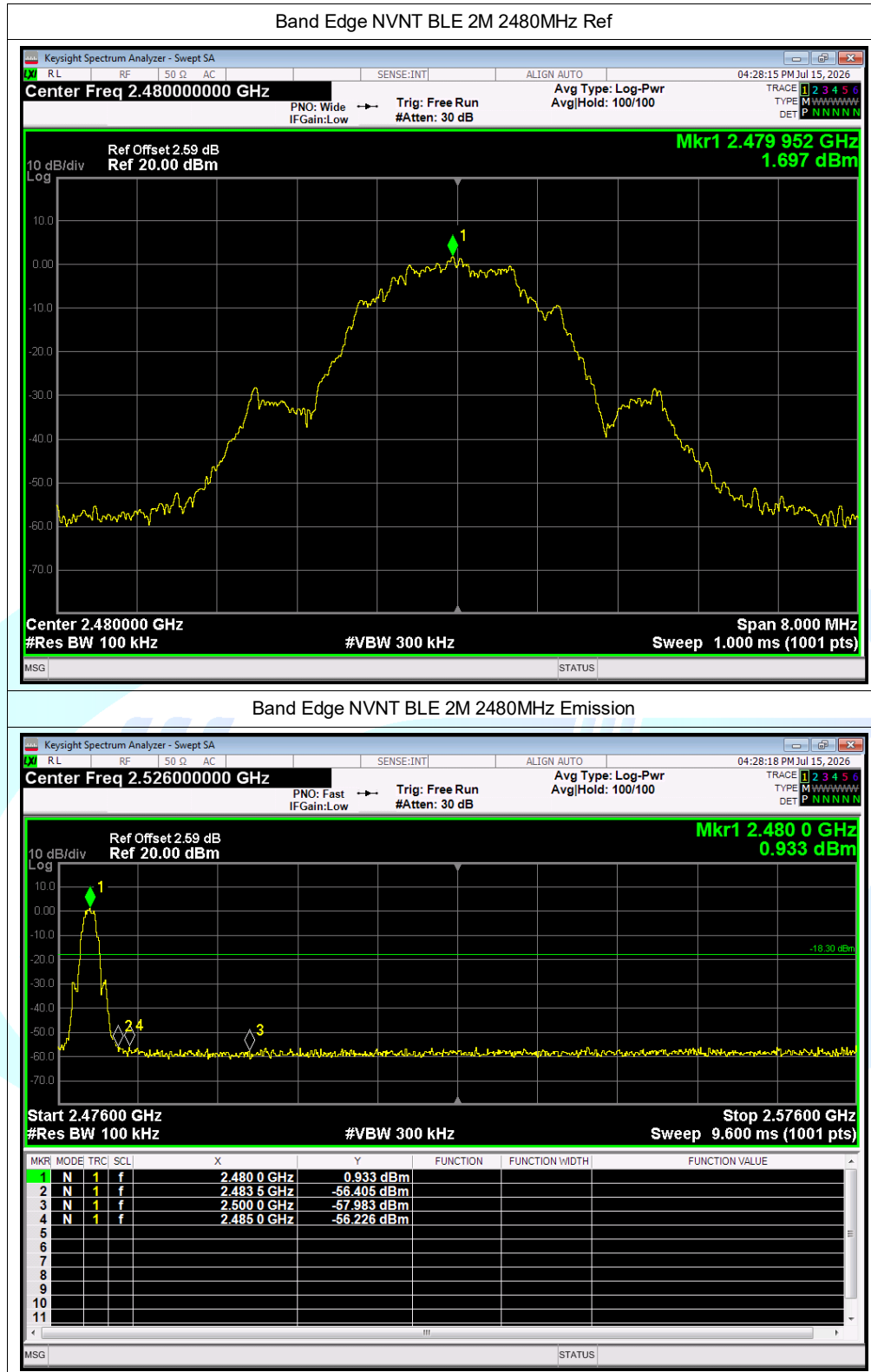
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-53.19	-20	Pass
	2480	-58.22	-20	Pass
BLE 2M	2402	-33.76	-20	Pass
	2480	-57.92	-20	Pass











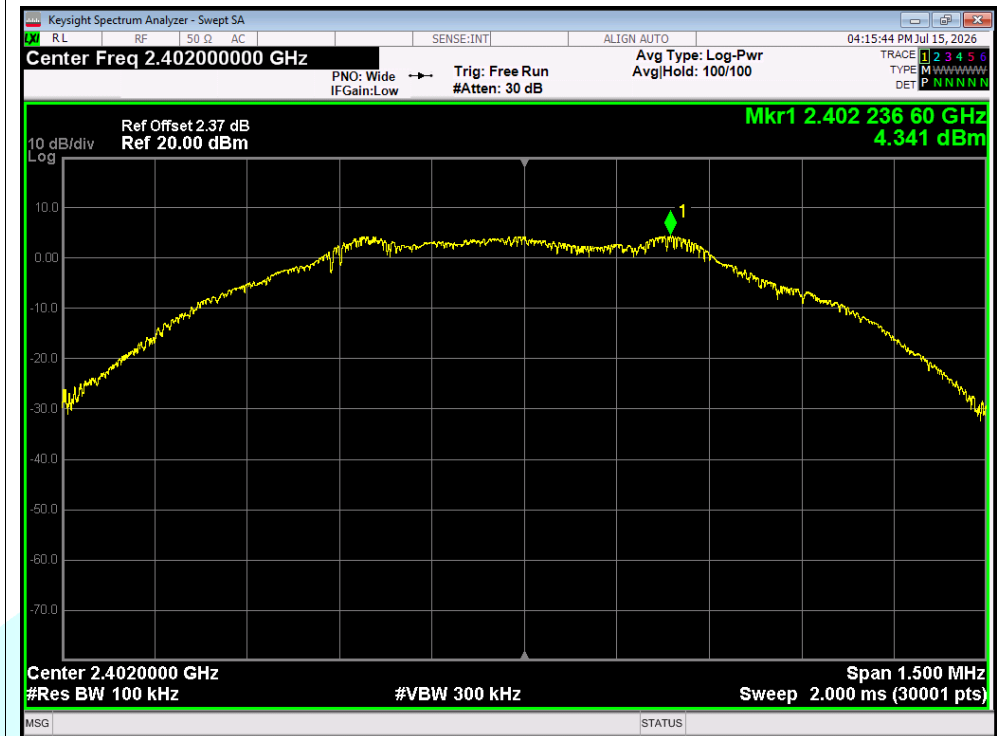
7 Conducted RF Spurious Emission

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-44.84	-20	Pass
	2440	-45.94	-20	Pass
	2480	-43.93	-20	Pass
BLE 2M	2402	-44.24	-20	Pass
	2440	-45.16	-20	Pass
	2480	-43.55	-20	Pass

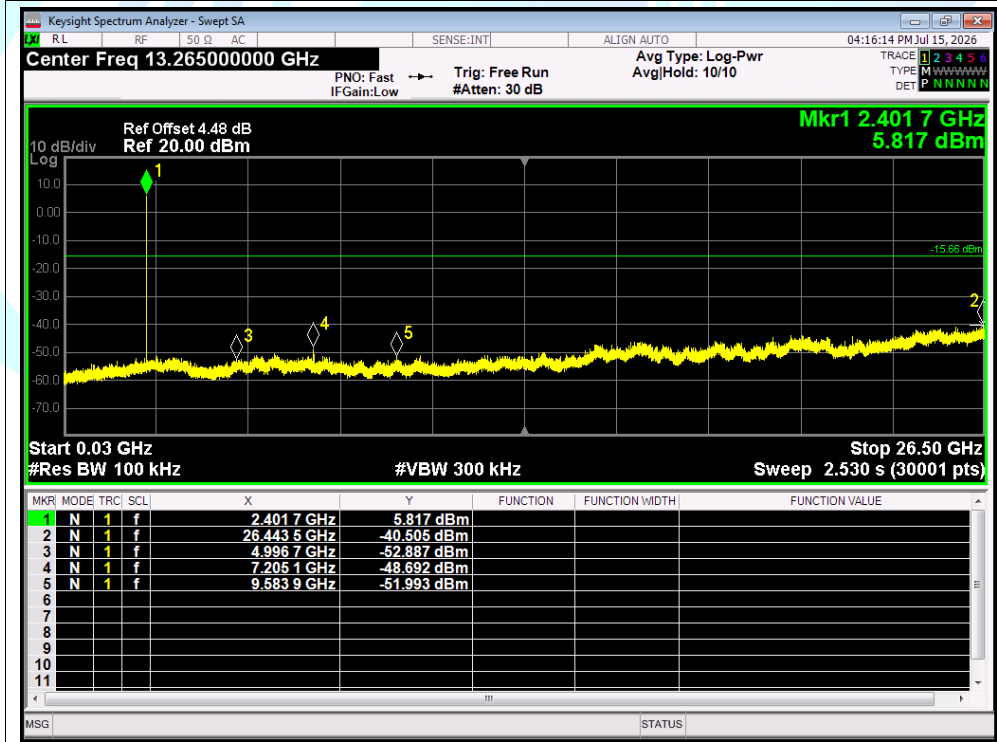


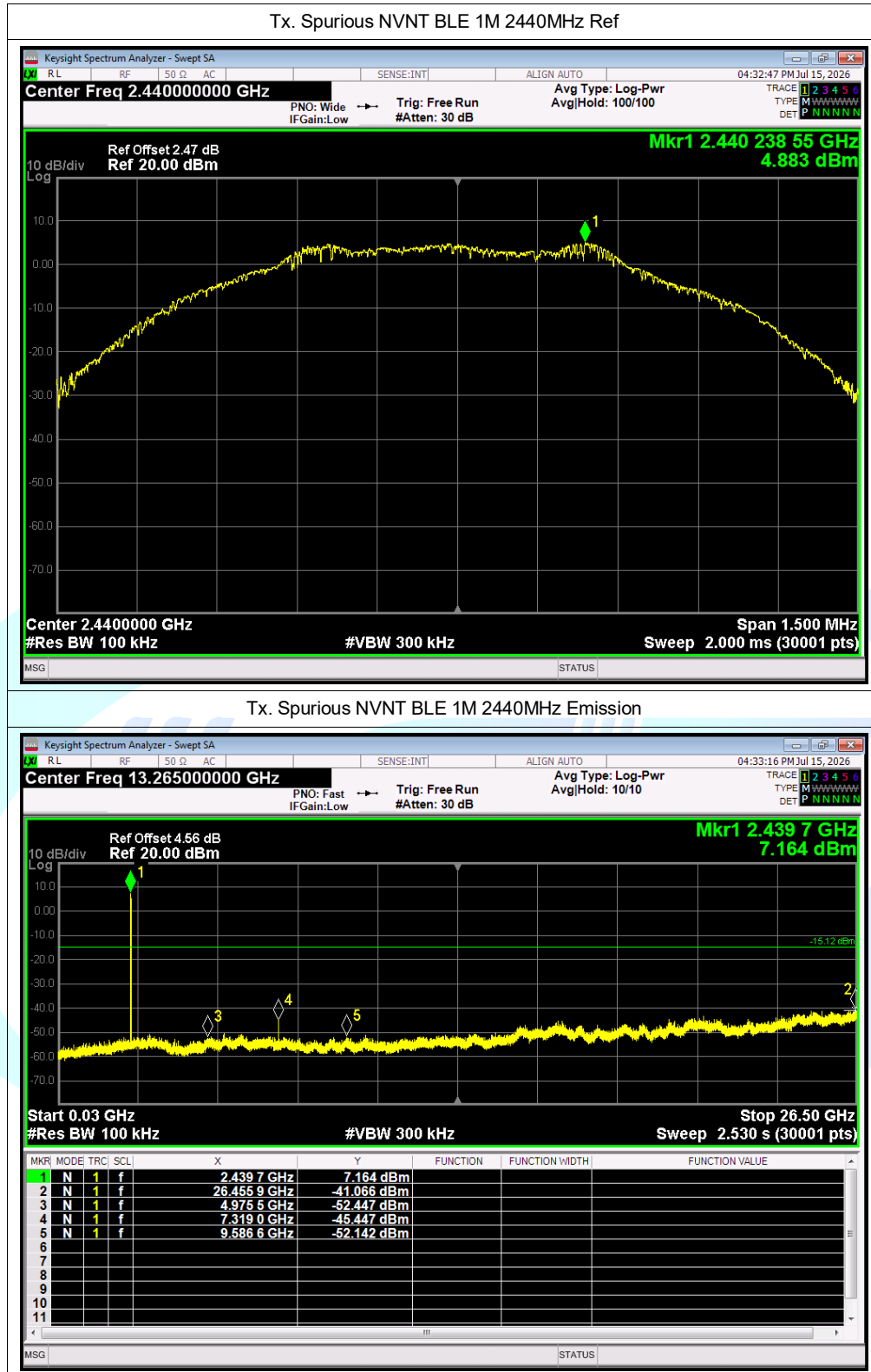
Test Graphs

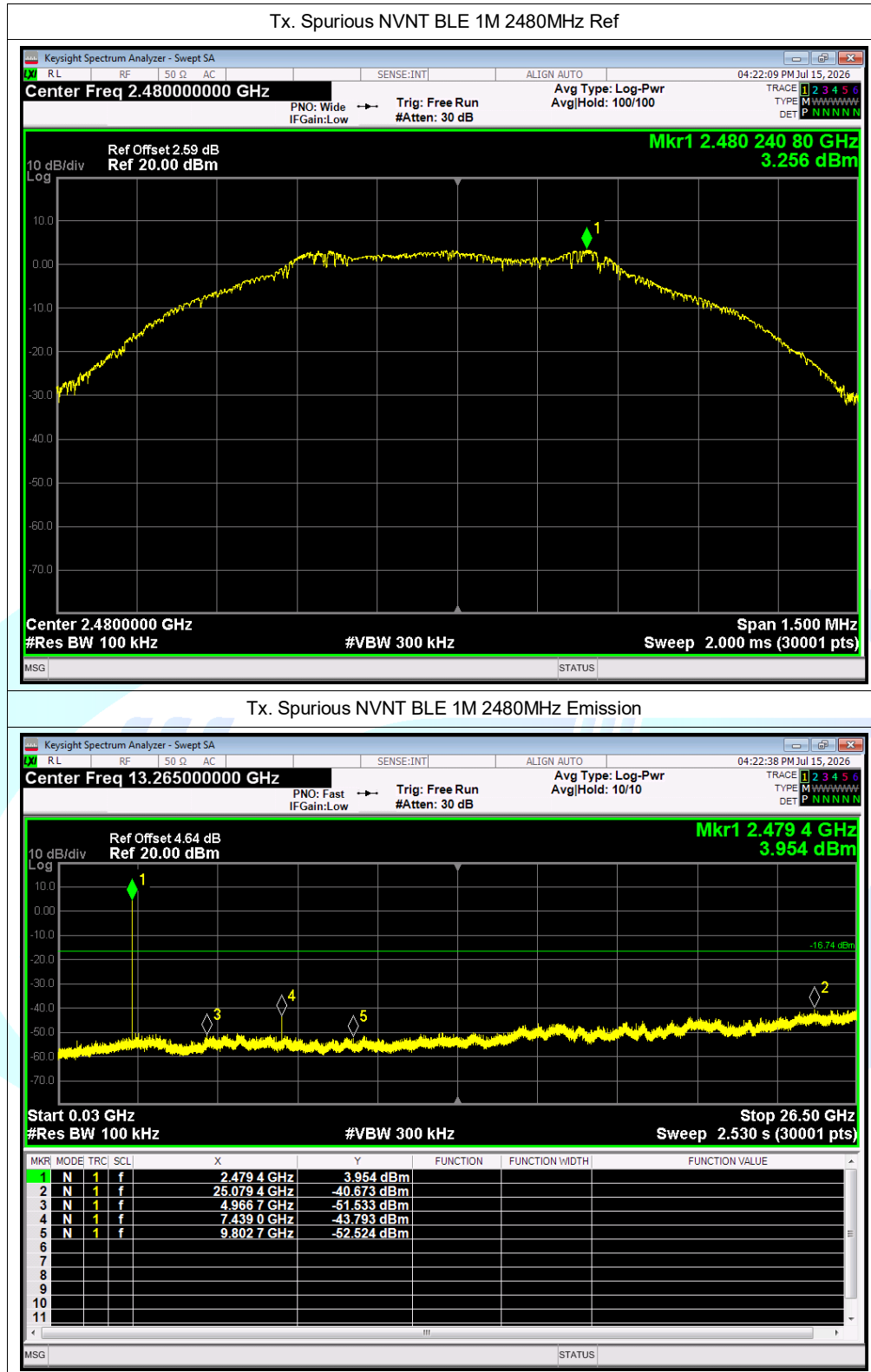
Tx. Spurious NVNT BLE 1M 2402MHz Ref

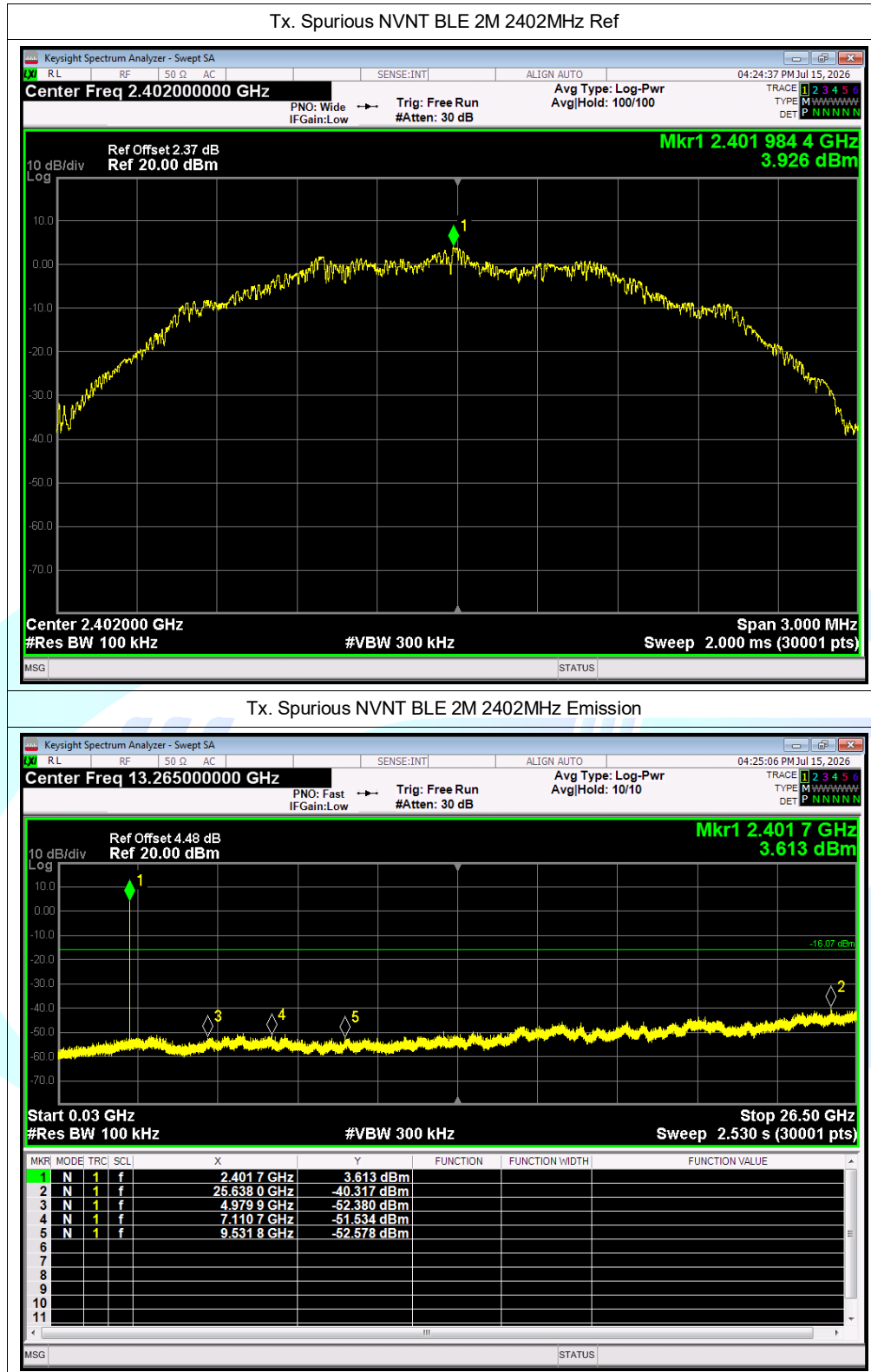


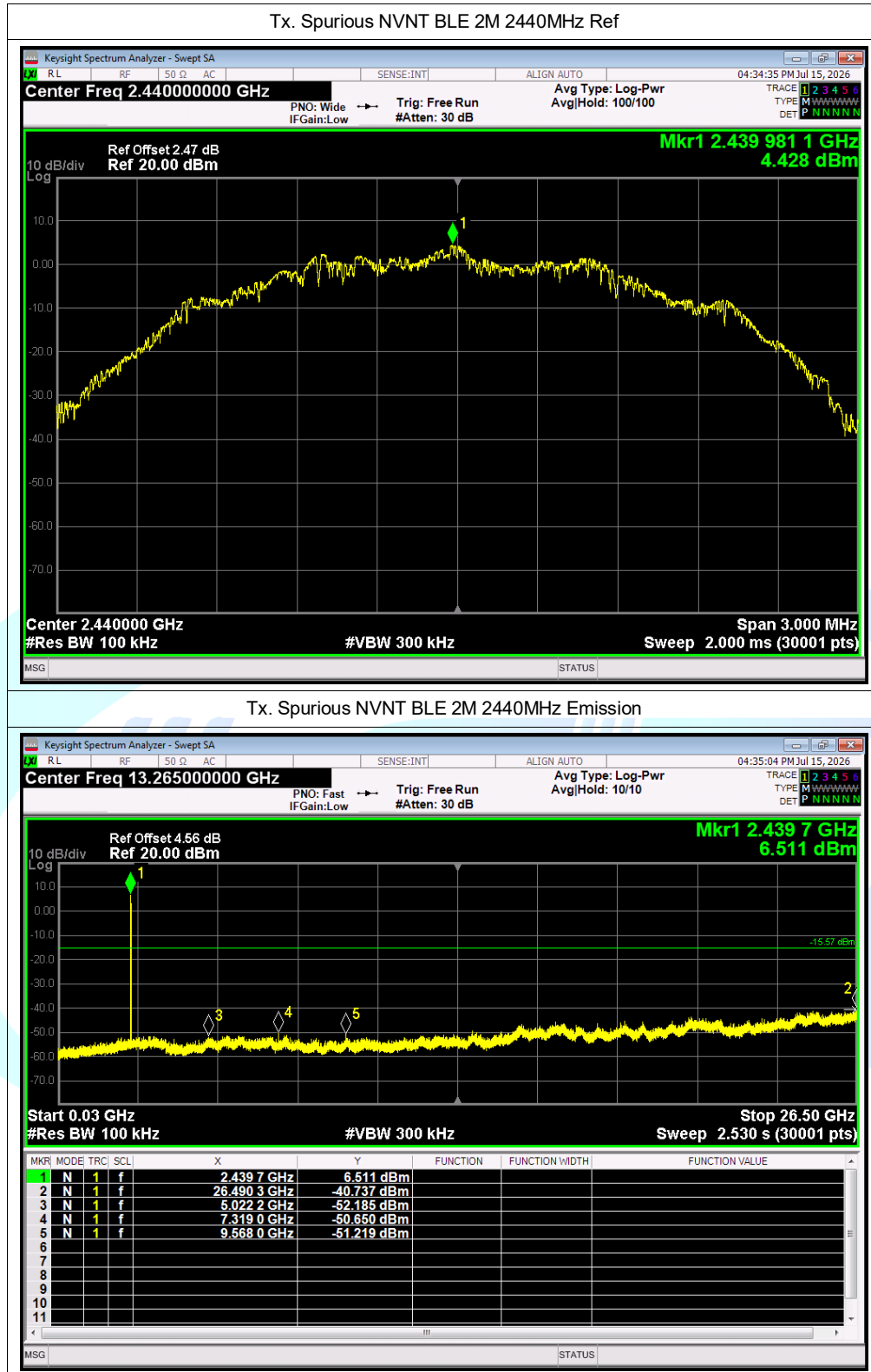
Tx. Spurious NVNT BLE 1M 2402MHz Emission

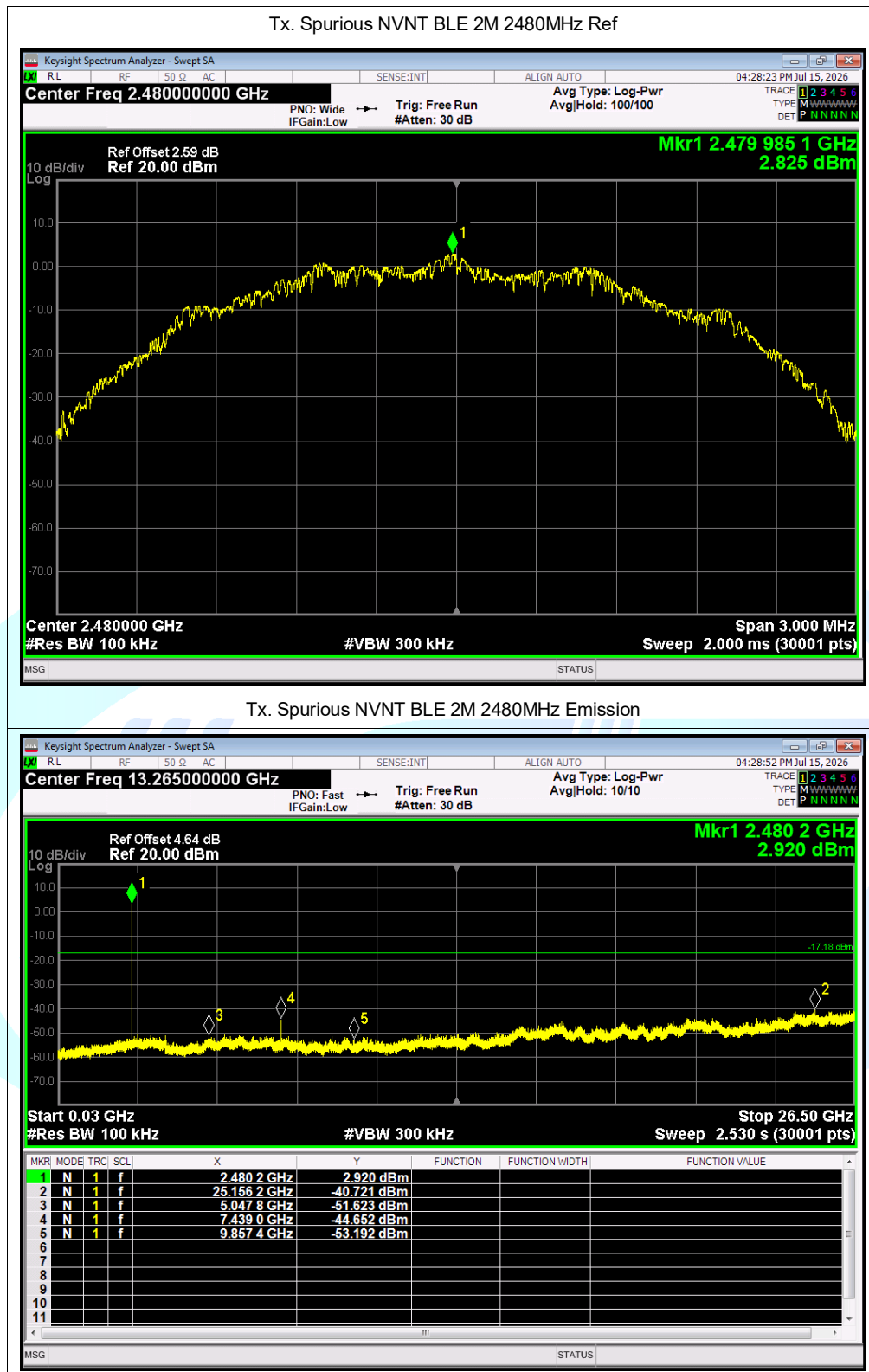












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