

Appendix A Conduction Data for BLE:

1. Conducted Peak Output Power

Test Result

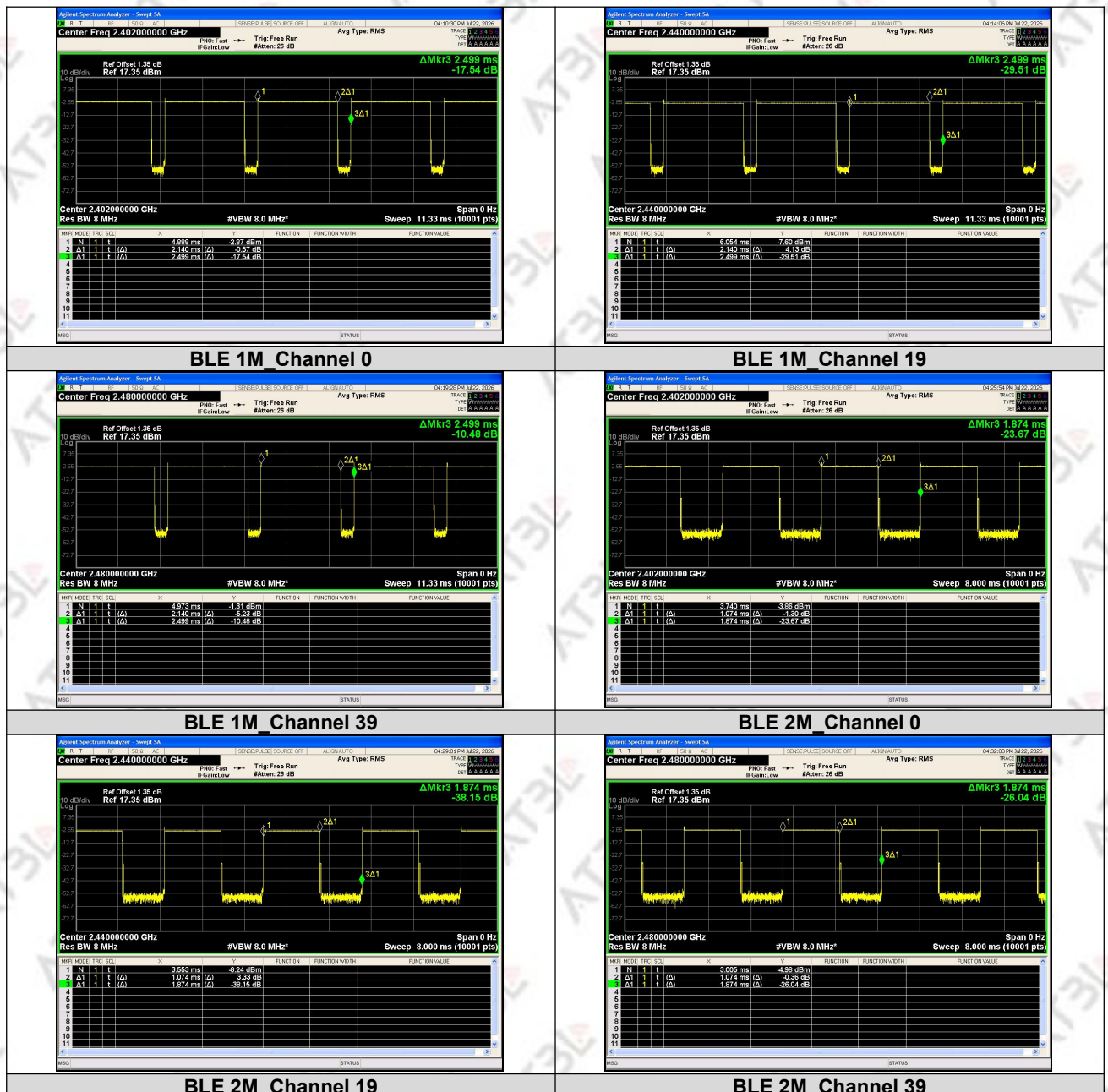
Mode	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
BLE 1M	0	1.16	≤30	PASS
	19	0.88	≤30	PASS
	39	1.02	≤30	PASS
BLE 2M	0	1.18	≤30	PASS
	19	0.88	≤30	PASS
	39	1.03	≤30	PASS

2.Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
BLE 1M	0	2.140	2.499	85.62	0.8562	0.6742
	19	2.140	2.499	85.62	0.8562	0.6742
	39	2.140	2.499	85.62	0.8562	0.6742
BLE 2M	0	1.074	1.874	57.28	0.5728	2.42
	19	1.074	1.874	57.28	0.5728	2.42
	39	1.074	1.874	57.28	0.5728	2.42

Test Graphs

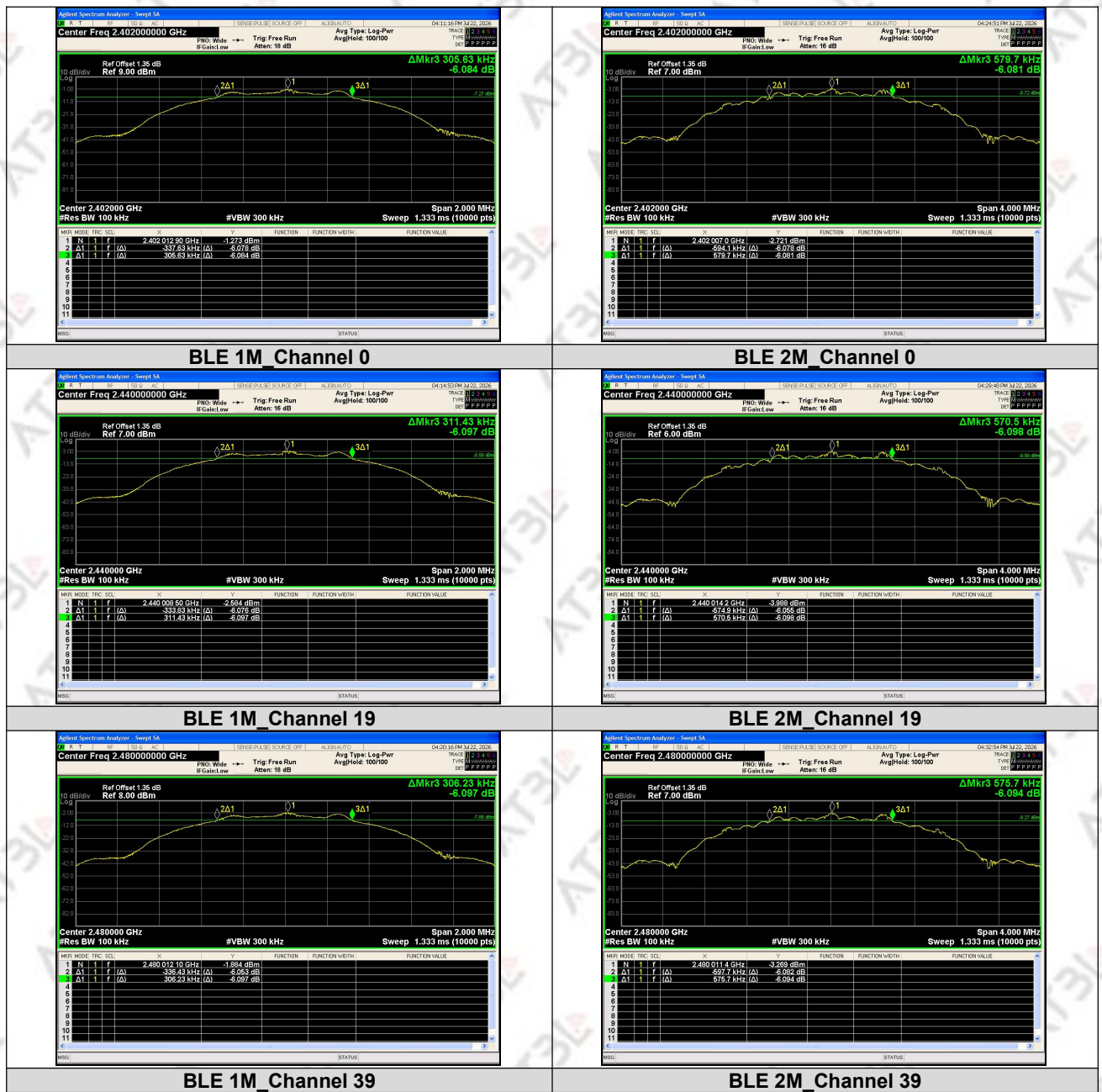


3.6dB Bandwidth and 99% Bandwidth

Test Result

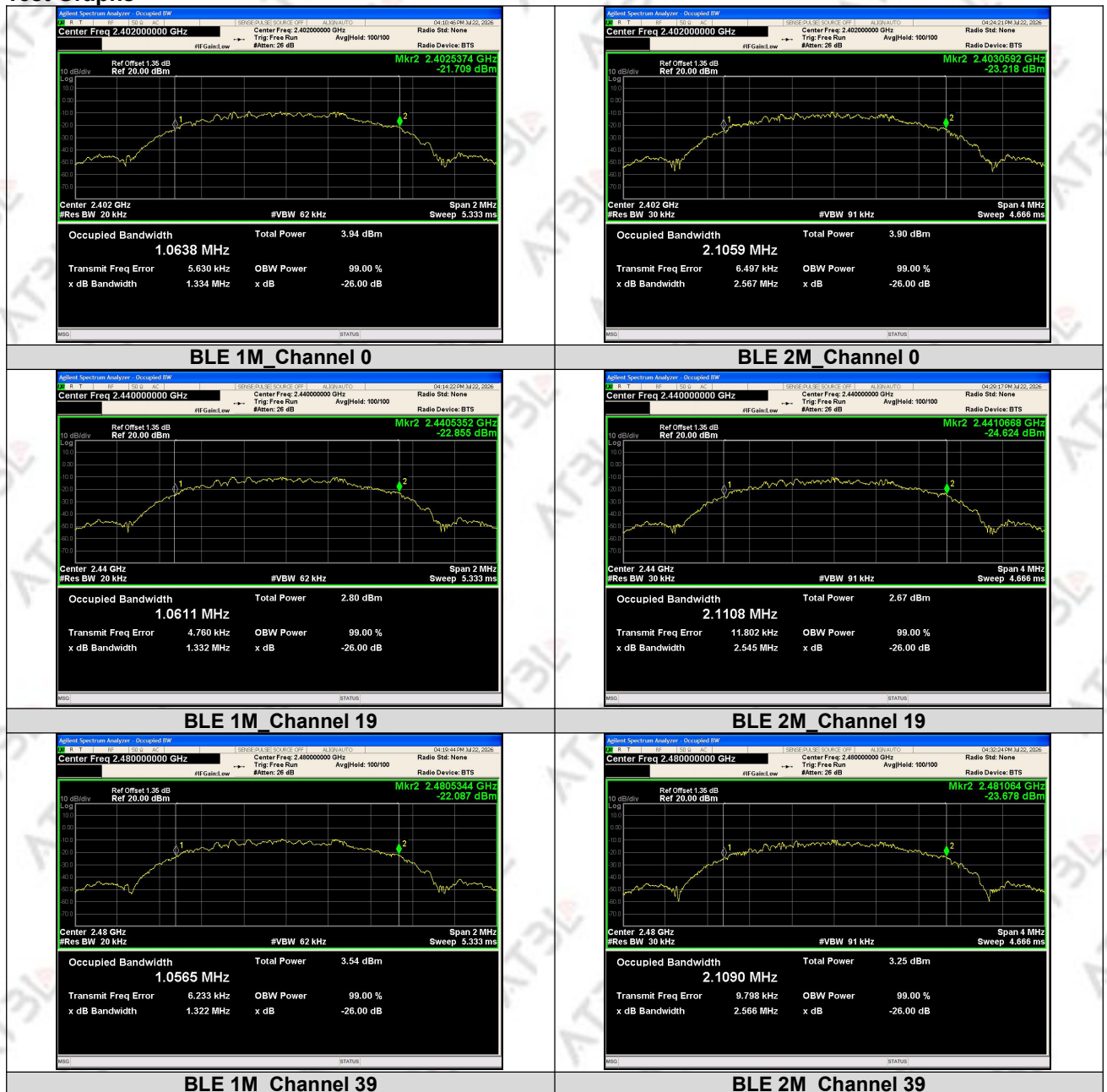
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.64	≥0.5	PASS
	19	2440	0.65		PASS
	39	2480	0.64		PASS
BLE 2M	0	2404	1.18		PASS
	19	2440	1.14		PASS
	39	2478	1.18		PASS

Test Graphs



Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0638
BLE 1M	19	2440	1.0611
BLE 1M	39	2480	1.0565
BLE 2M	0	2404	2.1059
BLE 2M	19	2440	2.1108
BLE 2M	39	2478	2.1090

Test Graphs

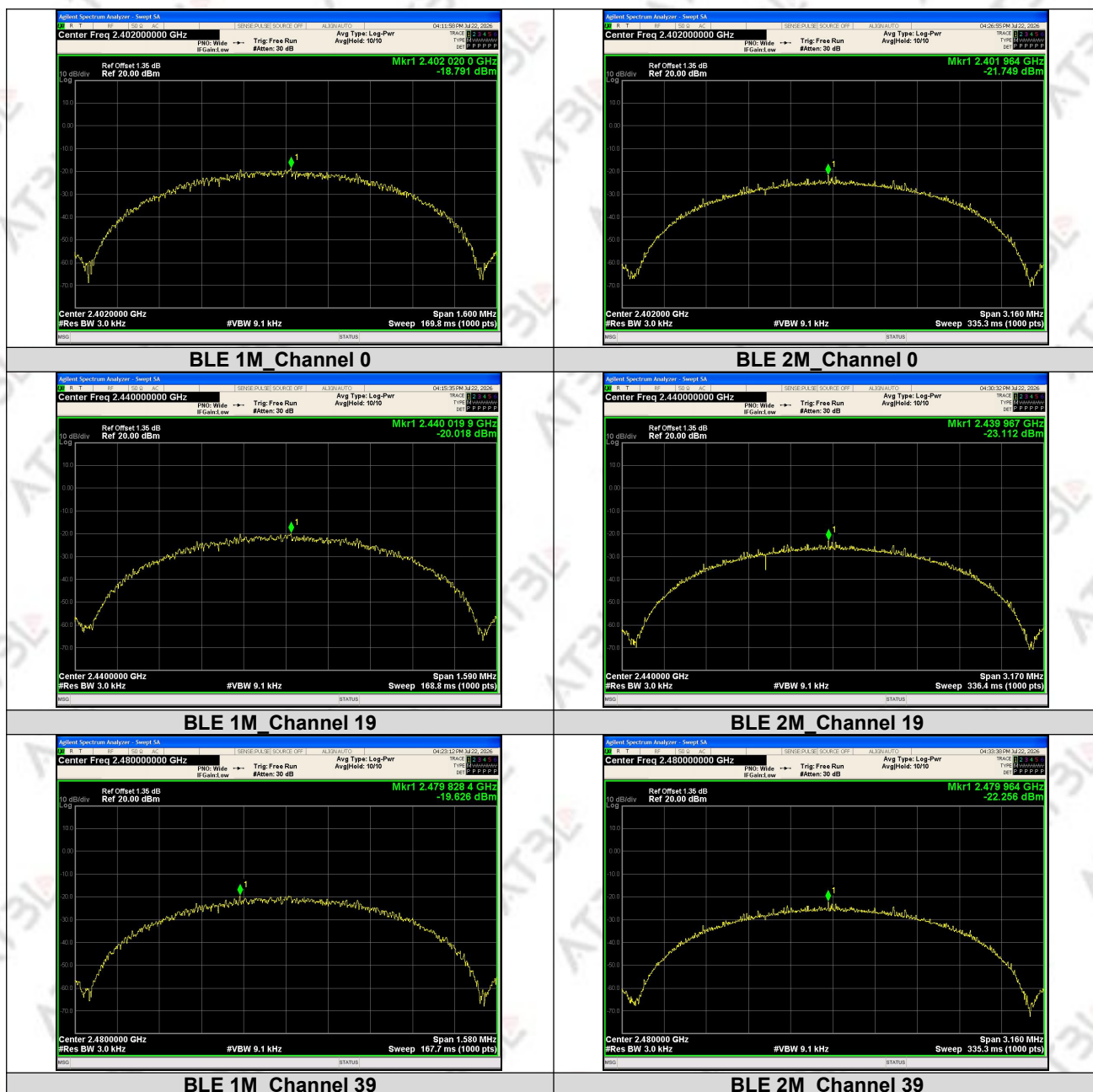


4.Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-18.79	≤8	PASS
BLE 1M	19	-20.02	≤8	PASS
BLE 1M	39	-19.63	≤8	PASS
BLE 2M	0	-21.75	≤8	PASS
BLE 2M	19	-23.11	≤8	PASS
BLE 2M	39	-22.26	≤8	PASS

Test Graphs



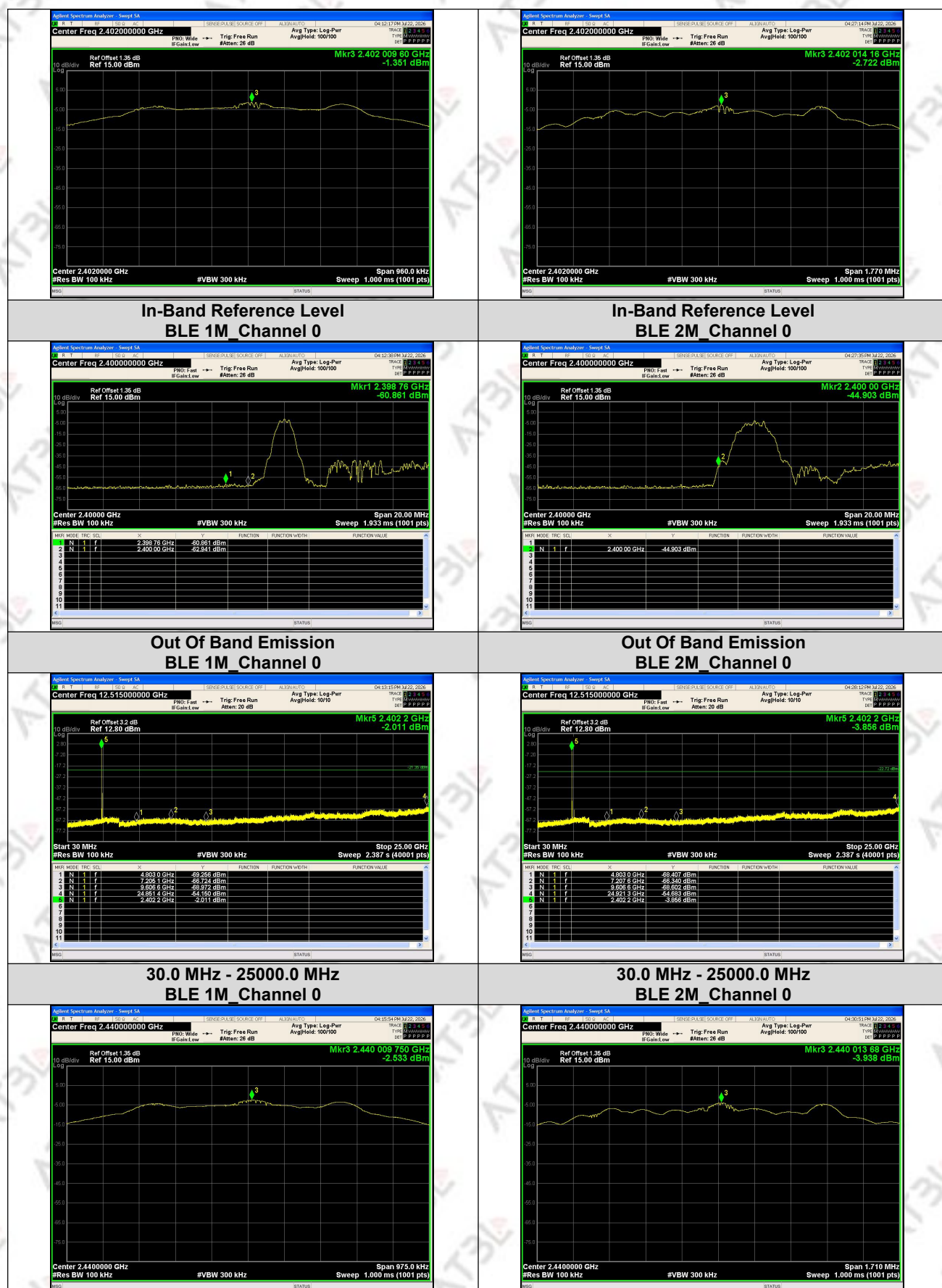
5. Conducted Spurious & Band Edge Emission

Test Result

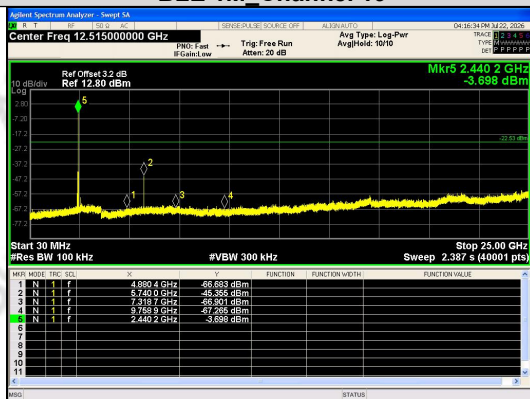
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.76	-60.861	-21.35	-39.511	PASS
		2400.00	-62.941	-21.35	-41.591	PASS
		4803.00	-69.256	-21.35	-47.906	PASS
		7205.10	-66.725	-21.35	-45.375	PASS
		9606.60	-68.972	-21.35	-47.622	PASS
		24851.4	-54.150	-21.35	-32.800	PASS
	19	4880.42	-66.683	-22.53	-44.153	PASS
		5740.01	-45.355	-22.53	-22.825	PASS
		7318.74	-66.901	-22.53	-44.371	PASS
		9758.94	-67.265	-22.53	-44.735	PASS
	39	2483.50	-63.258	-22.12	-41.138	PASS
		2533.87	-50.406	-22.12	-28.286	PASS
		4958.45	-68.443	-22.12	-46.323	PASS
		7439.85	-67.326	-22.12	-45.206	PASS
		9918.12	-68.966	-22.12	-46.846	PASS
BLE 2M	0	2400.00	-44.903	-22.72	-22.183	PASS
		4803.02	-68.407	-22.72	-45.687	PASS
		7207.63	-66.340	-22.72	-43.620	PASS
		9606.62	-68.602	-22.72	-45.882	PASS
		24921.3	-54.683	-22.72	-31.963	PASS
	19	4878.55	-68.204	-23.94	-44.264	PASS
		5750.63	-46.201	-23.94	-22.261	PASS
		7320.62	-65.857	-23.94	-41.917	PASS
		9758.31	-69.349	-23.94	-45.409	PASS
	39	2483.50	-62.658	-23.24	-39.418	PASS
		2613.15	-37.554	-23.24	-14.314	PASS
		4960.95	-68.712	-23.24	-45.472	PASS
		7441.72	-66.466	-23.24	-43.226	PASS
		9921.24	-68.672	-23.24	-45.432	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

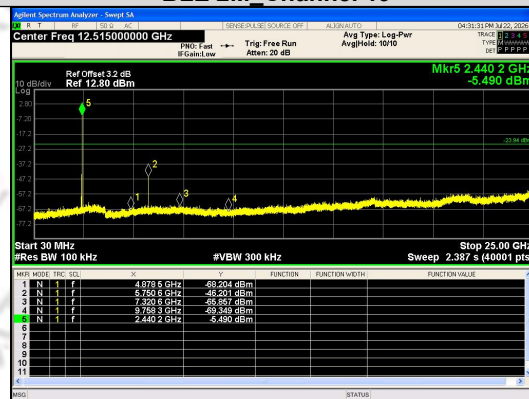
Test Graphs



In-Band Reference Level BLE 1M_Channel 19



In-Band Reference Level BLE 2M_Channel 19



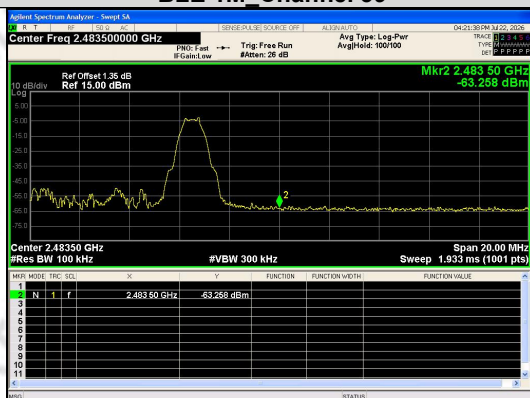
30.0 MHz - 25000.0 MHz BLE 1M_Channel 19



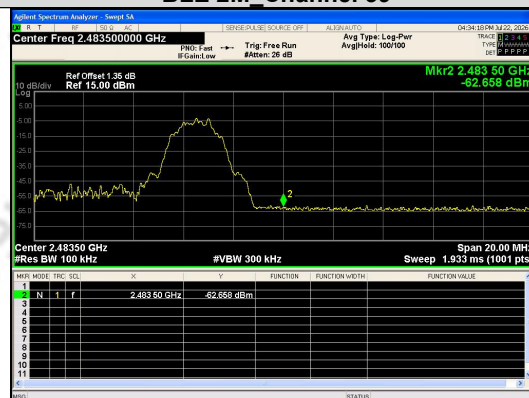
30.0 MHz - 25000.0 MHz BLE 2M_Channel 19



In-Band Reference Level BLE 1M_Channel 39

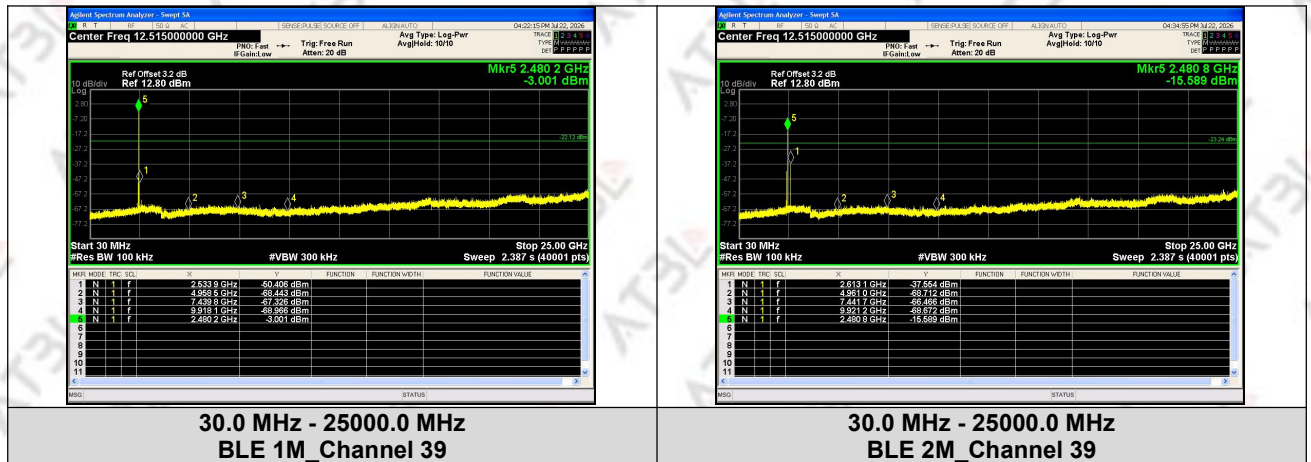


In-Band Reference Level BLE 2M_Channel 39



Out Of Band Emission BLE 1M_Channel 39

Out Of Band Emission BLE 2M_Channel 39



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