

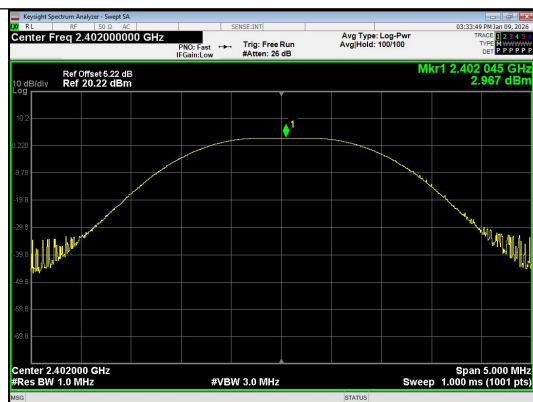
Appendix A Test Results of Bluetooth BLE

Conducted Output Power

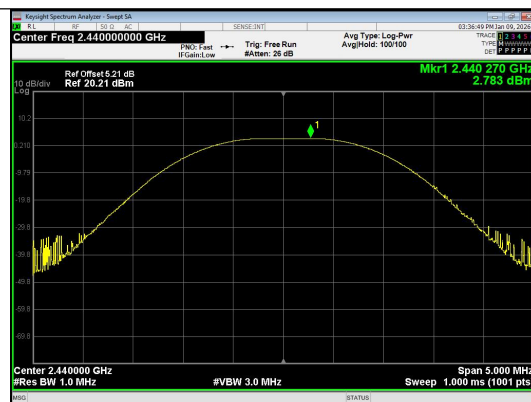
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.97	1.98	≤30	PASS
	19	2.78	1.90	≤30	PASS
	39	2.42	1.75	≤30	PASS

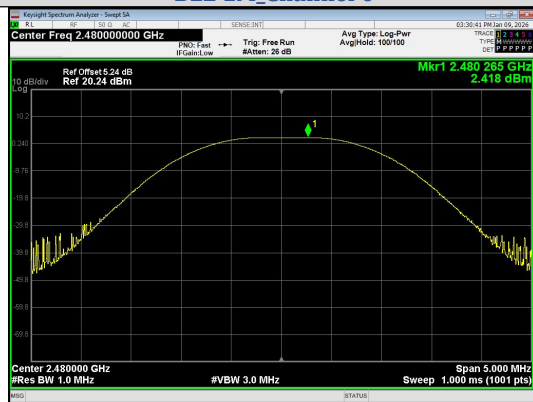
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



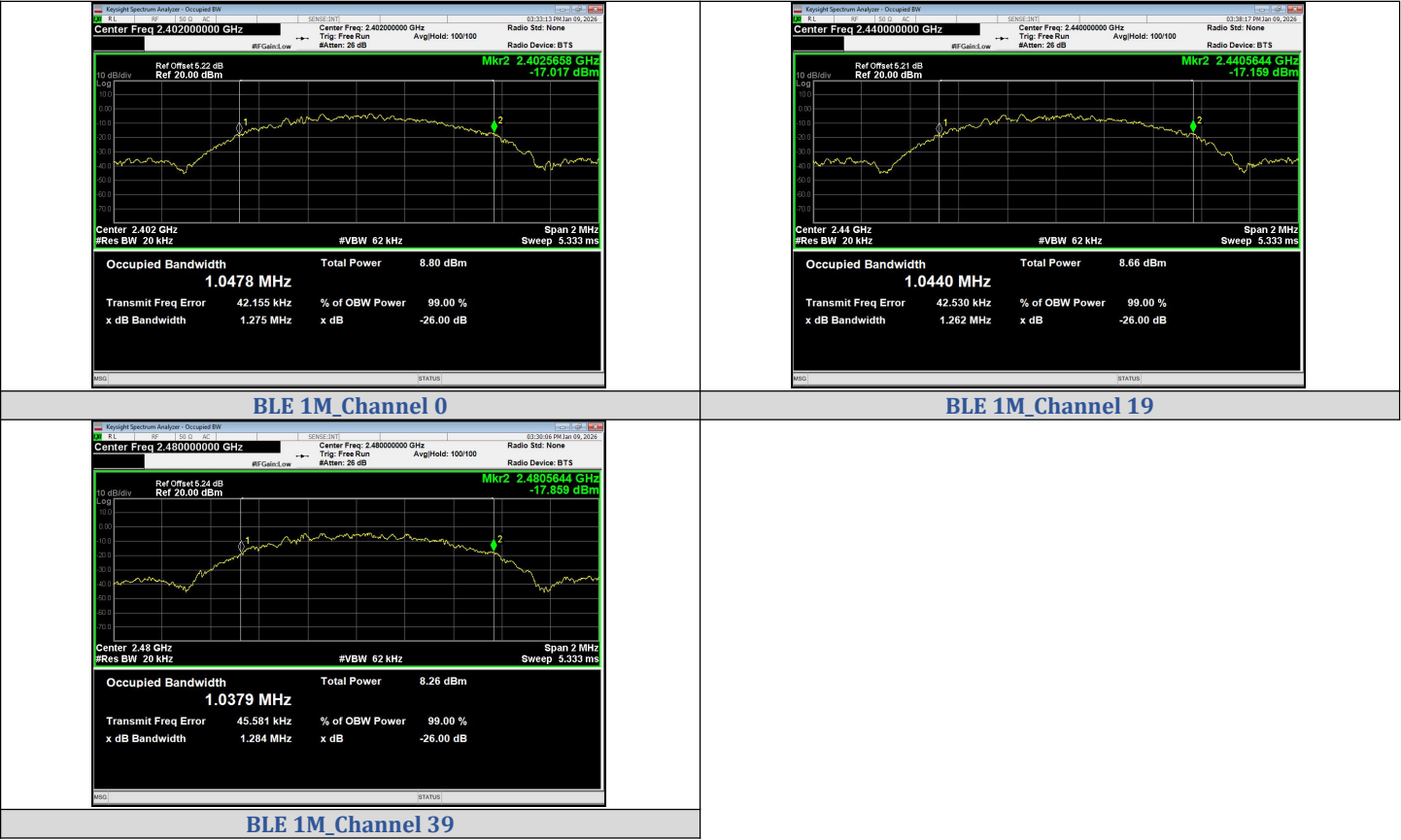
Peak Output Power
BLE 1M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0478
BLE 1M	19	2440	1.0440
BLE 1M	39	2480	1.0379

Test Graphs

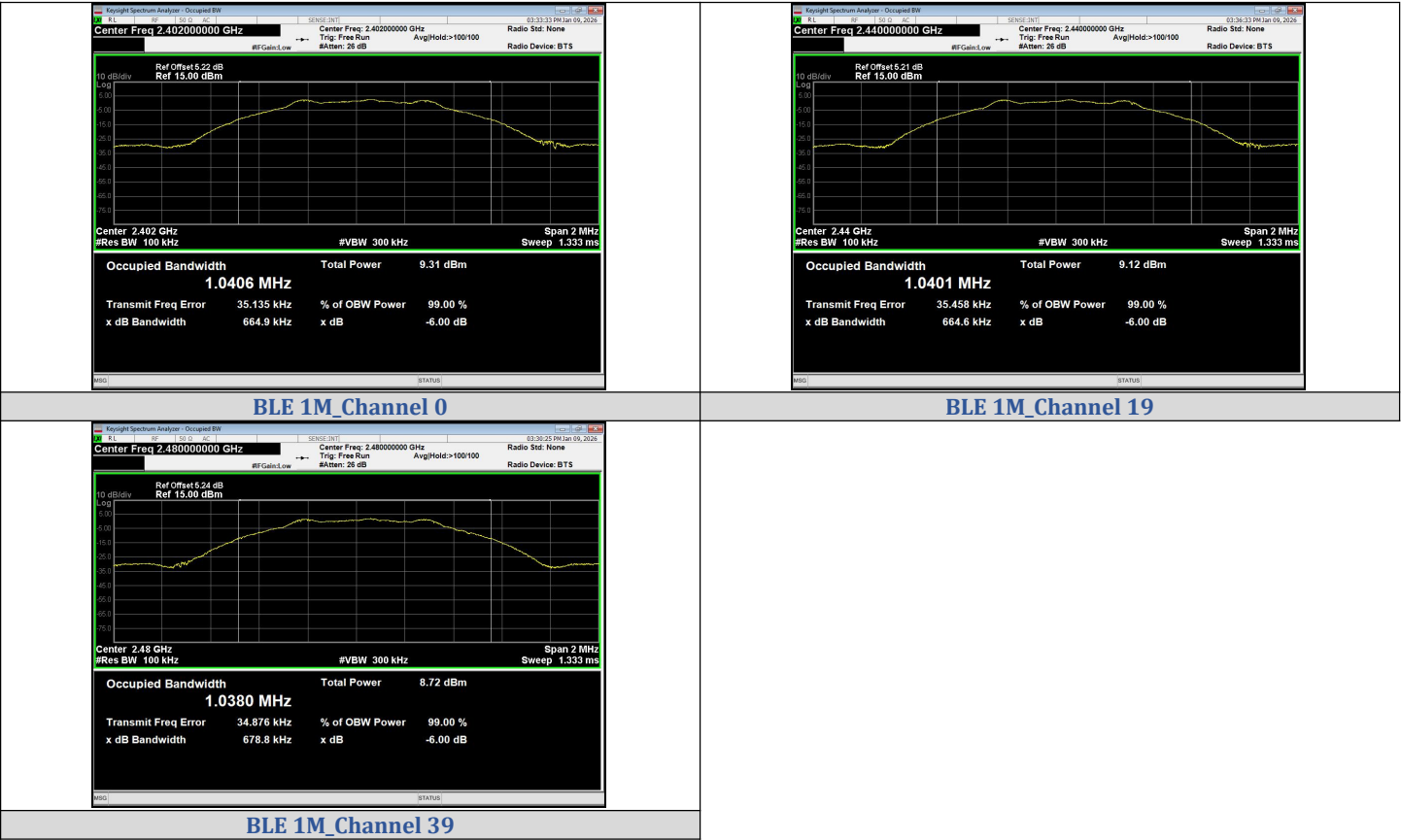


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6649	≥0.5	PASS
	19	2440	0.6646		PASS
	39	2480	0.6788		PASS

Test Graphs



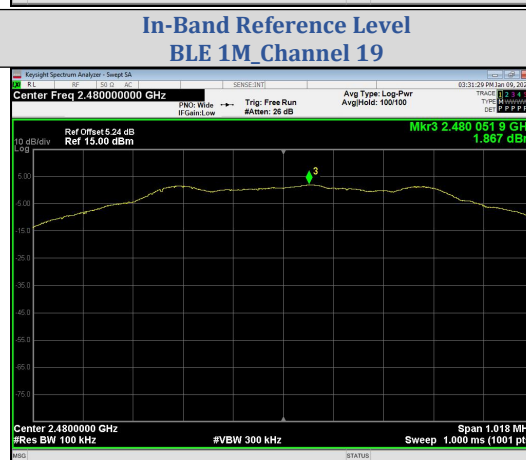
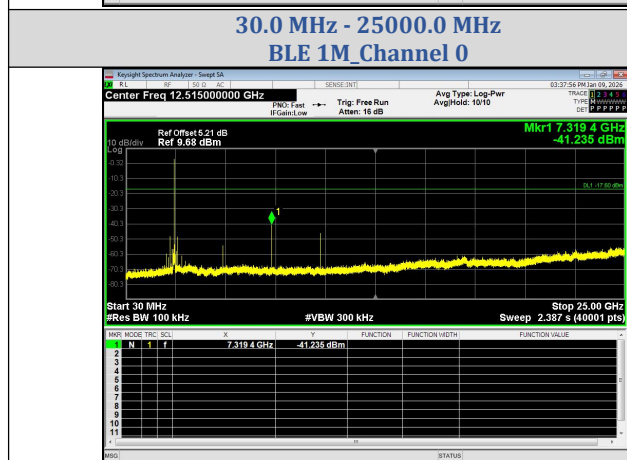
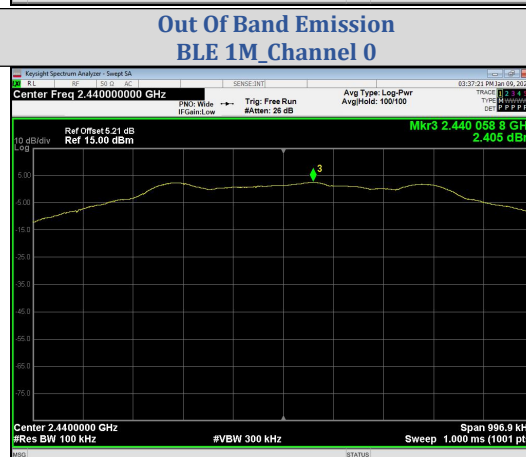
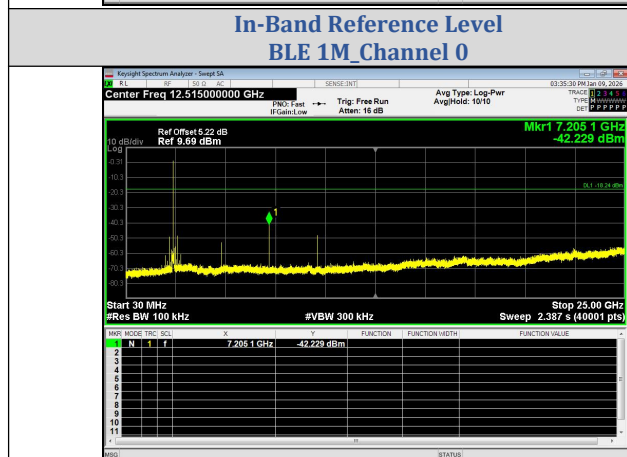
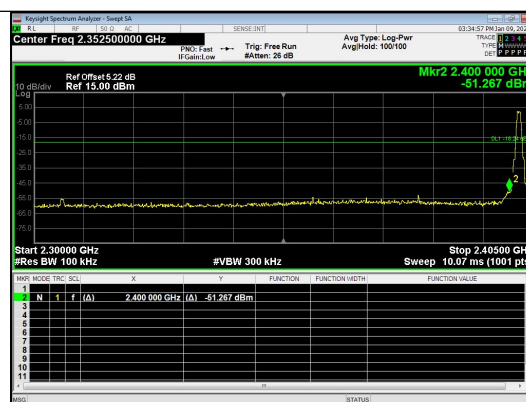
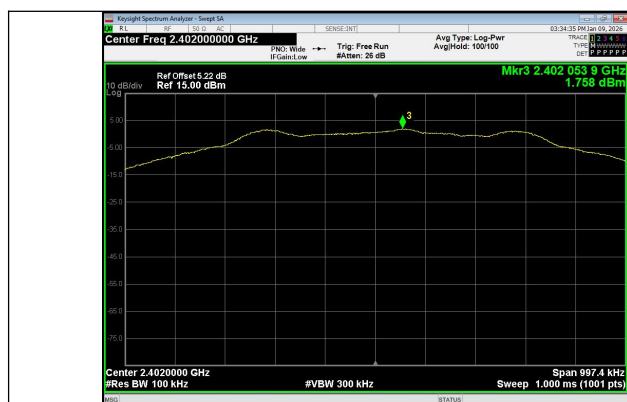
Conducted Spurious & Band Edge Emission

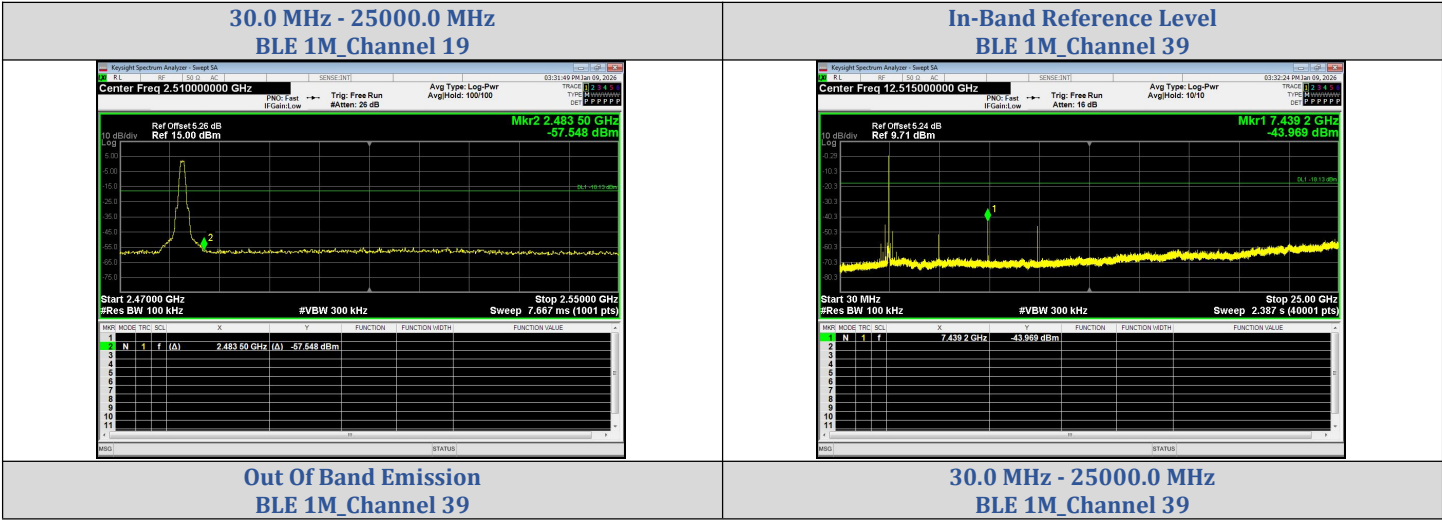
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-51.267	-18.24	-33.027	PASS
		7205.13	-42.229	-18.24	-23.989	PASS
	19	7319.37	-41.235	-17.6	-23.635	PASS
	39	2483.50	-57.548	-18.13	-39.418	PASS
		7439.22	-43.969	-18.13	-25.839	PASS

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

Test Graphs



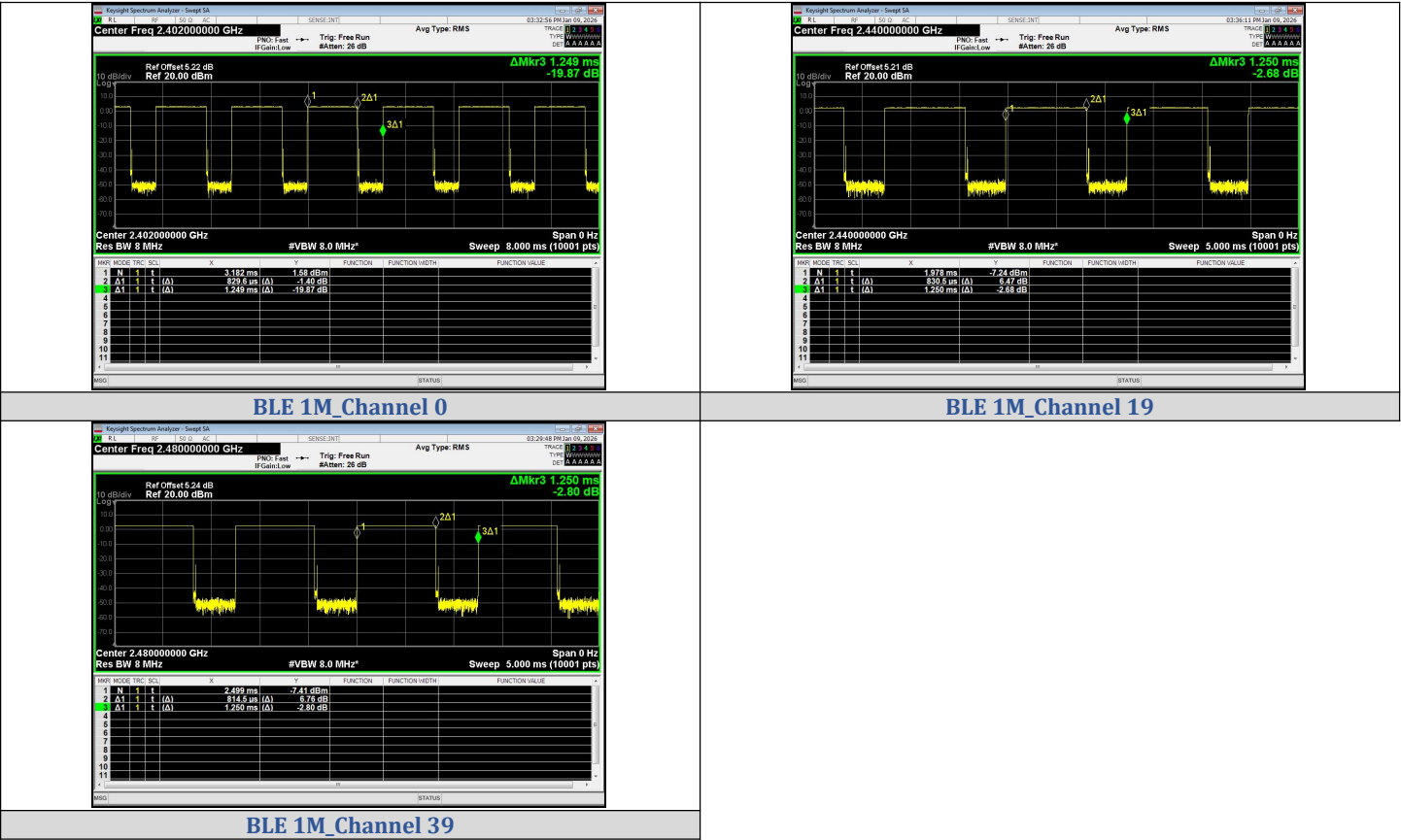


Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	0.830	1.249	66.43	0.6643	1.7764	1.2048
	19	0.831	1.250	66.44	0.6644	1.7757	1.2034
	39	0.815	1.250	65.16	0.6516	1.8602	1.2270

Test Graphs



Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-12.520	≤8	PASS
BLE 1M	19	-12.620	≤8	PASS
BLE 1M	39	-13.860	≤8	PASS

Test Graphs

