

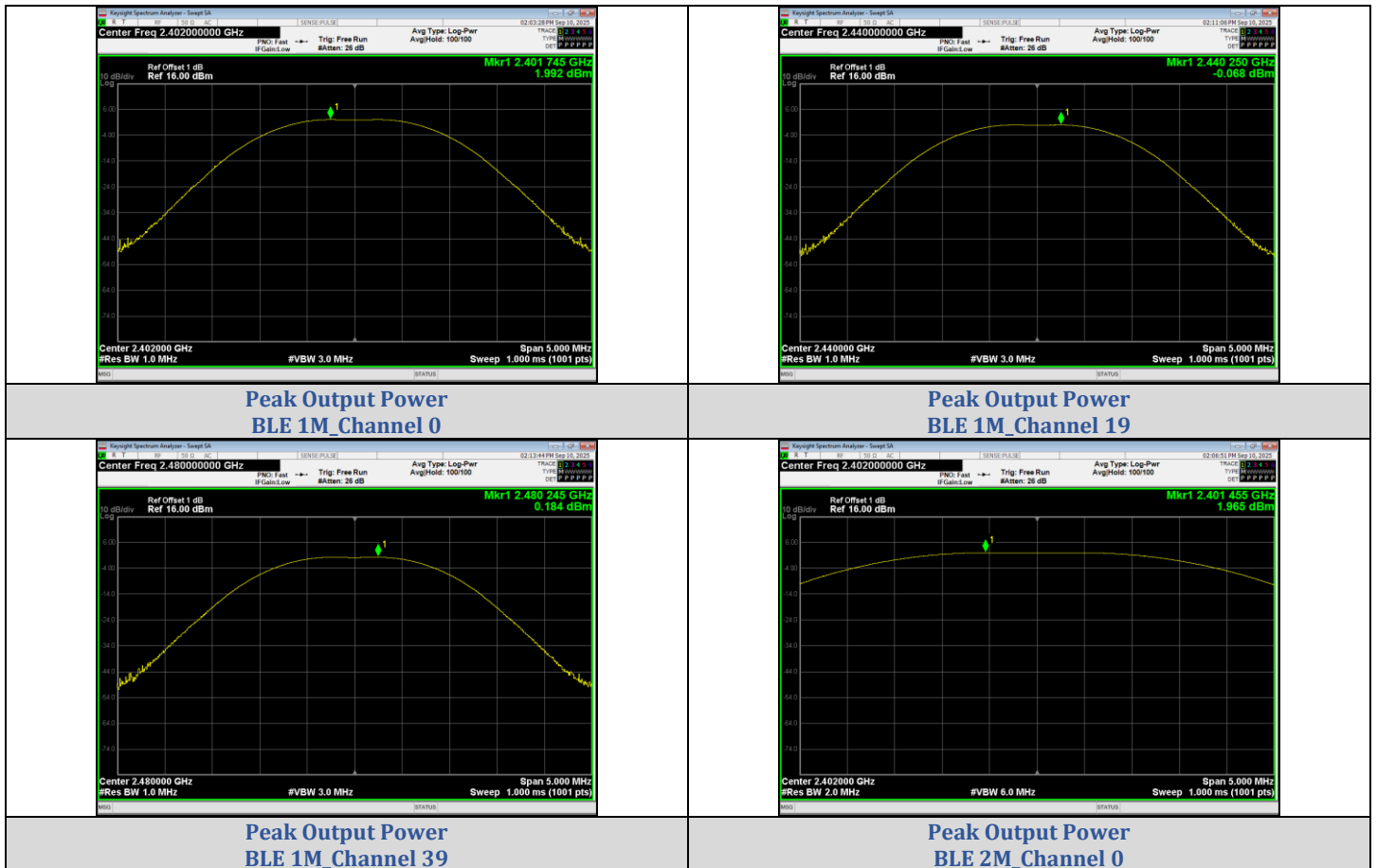
Appendix RF test data for BLE

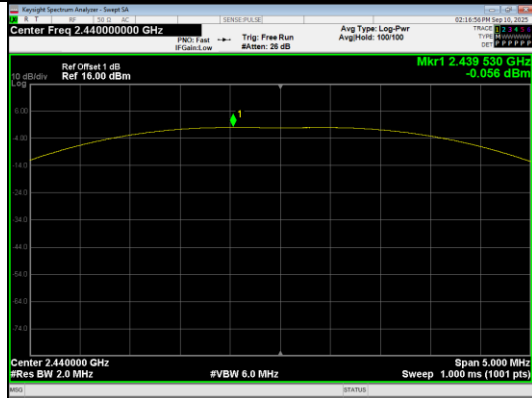
Conducted Output Power

Test Result

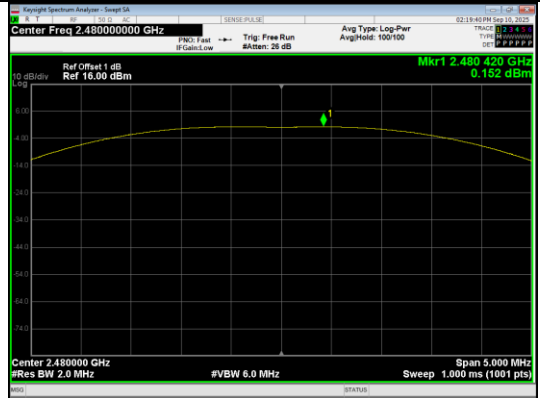
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	1.99	1.58	None	≤30	PASS
	19	-0.07	0.98	None	≤30	PASS
	39	0.18	1.04	None	≤30	PASS
BLE 2M	0	1.97	1.57	None	≤30	PASS
	19	-0.06	0.99	None	≤30	PASS
	39	0.15	1.04	None	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



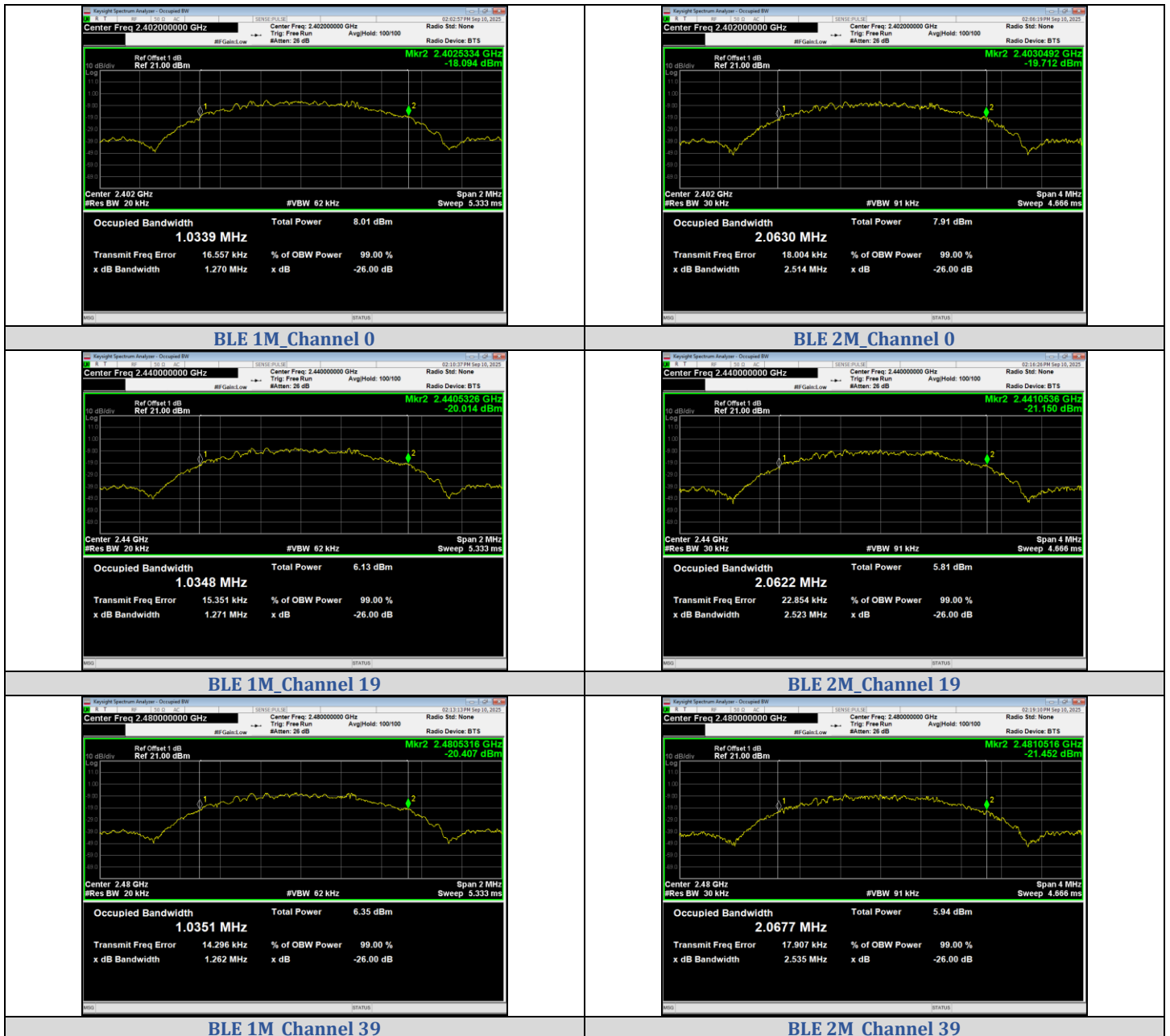
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0339
BLE 1M	19	2440	1.0348
BLE 1M	39	2480	1.0351
BLE 2M	0	2402	2.0630
BLE 2M	19	2440	2.0622
BLE 2M	39	2480	2.0677

Test Graphs



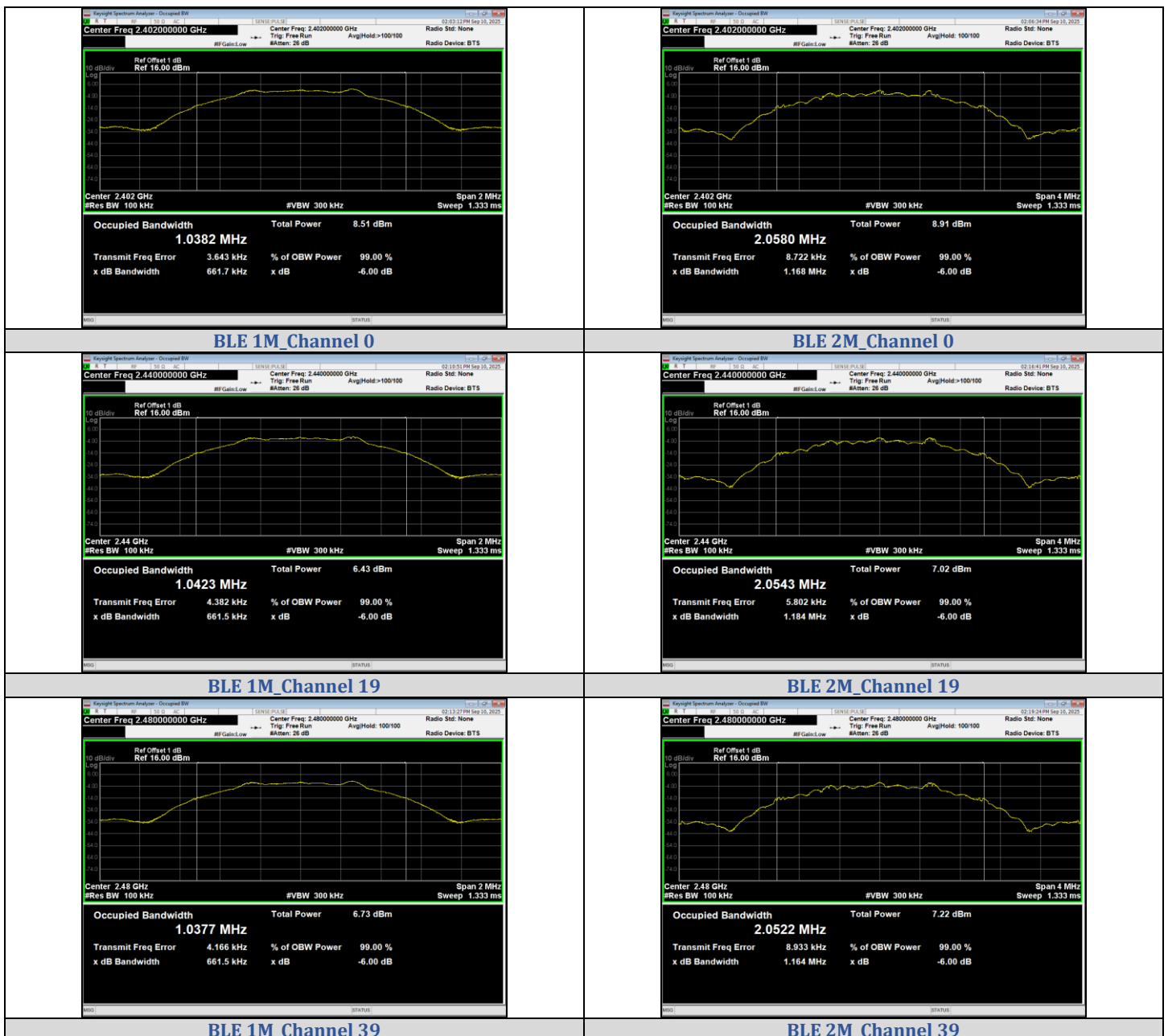


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.170		PASS
	19	2440	1.180		PASS
	39	2480	1.160		PASS

Test Graphs

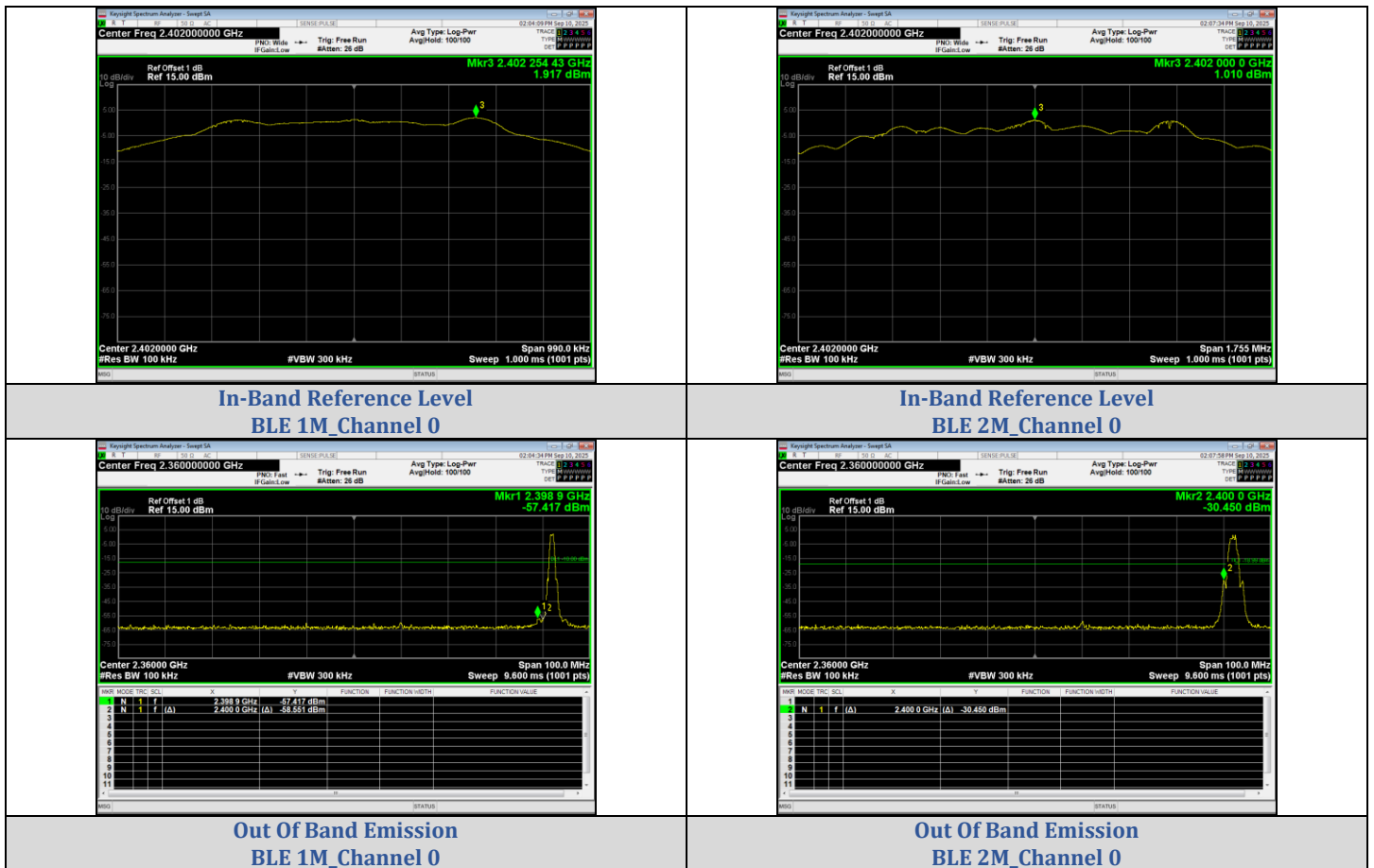


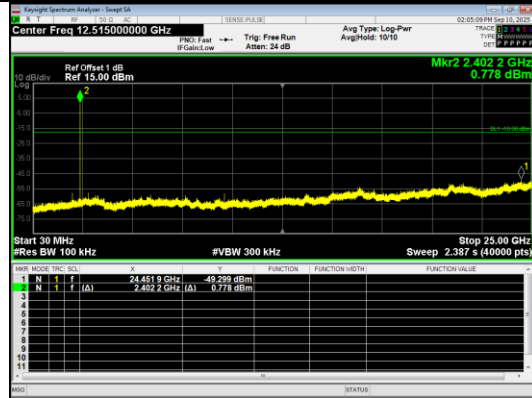
Conducted Out Of Band Emission

Test Result

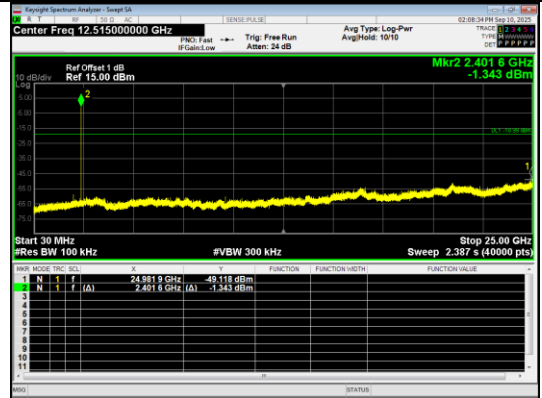
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.90	-57.417	-18.08	-39.337	PASS
		2400.00	-58.550	-18.08	-40.470	PASS
		24451.9	-49.299	-18.08	-31.219	PASS
	19	24980.7	-49.739	-20.1	-29.639	PASS
		2483.50	-61.280	-19.92	-41.360	PASS
		24396.3	-49.665	-19.92	-29.745	PASS
BLE 2M	0	2400.00	-30.450	-18.99	-11.460	PASS
		24981.9	-49.118	-18.99	-30.128	PASS
		24944.4	-50.052	-20.99	-29.062	PASS
	19	2483.50	-60.070	-20.79	-39.280	PASS
		24996.9	-49.877	-20.79	-29.087	PASS

Test Graphs





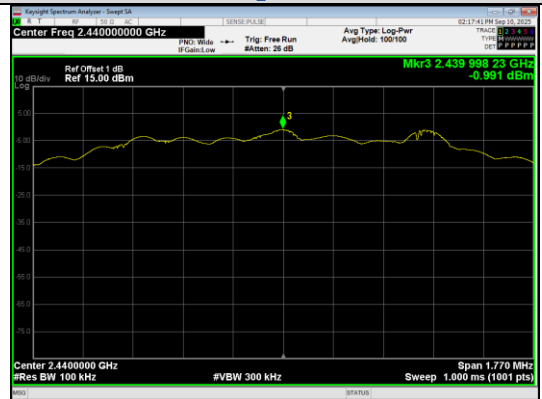
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



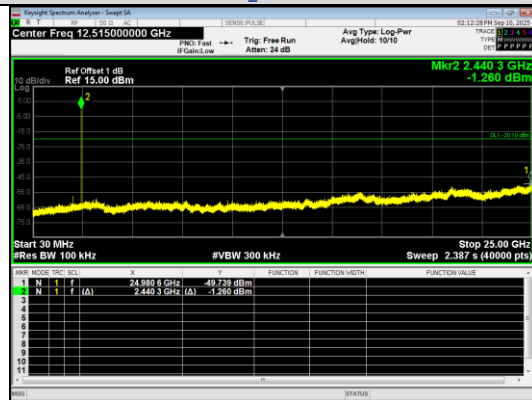
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



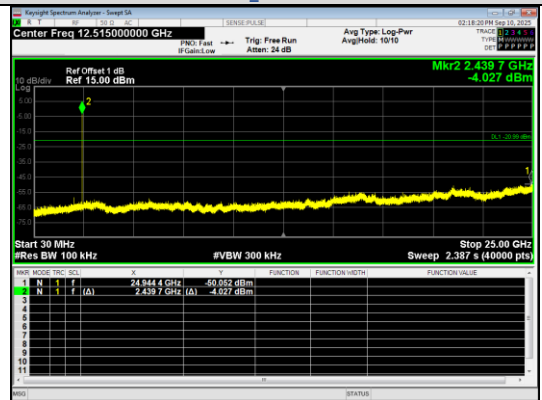
In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19



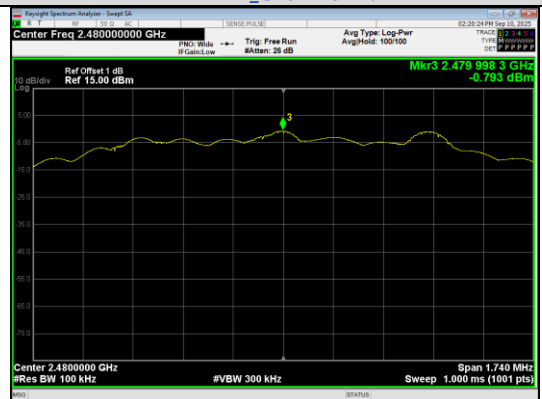
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



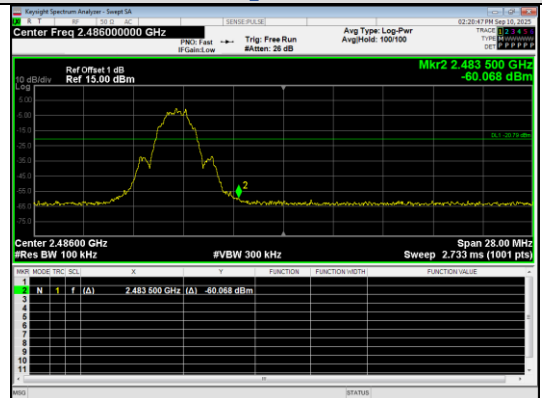
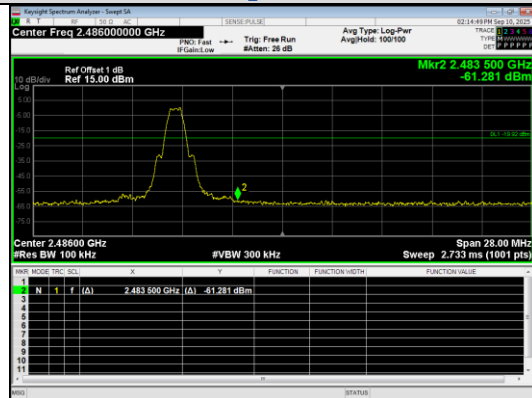
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



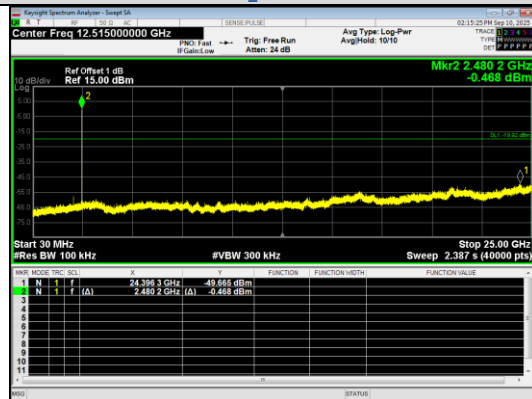
In-Band Reference Level



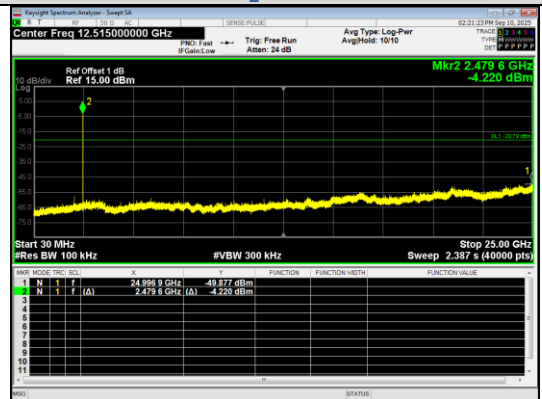
In-Band Reference Level



Out Of Band Emission BLE 1M_Channel 39



Out Of Band Emission BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39



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	2.123	2.499	84.94	0.8494	0.7089	0.4710
	19	2.123	2.499	84.94	0.8494	0.7089	0.4710
	39	2.124	2.499	84.99	0.8499	0.7063	0.4708
BLE 2M	0	1.067	1.874	56.94	0.5694	2.4458	0.9372
	19	1.066	1.874	56.92	0.5692	2.4474	0.9381
	39	1.066	1.873	56.93	0.5693	2.4466	0.9381

Test Graphs



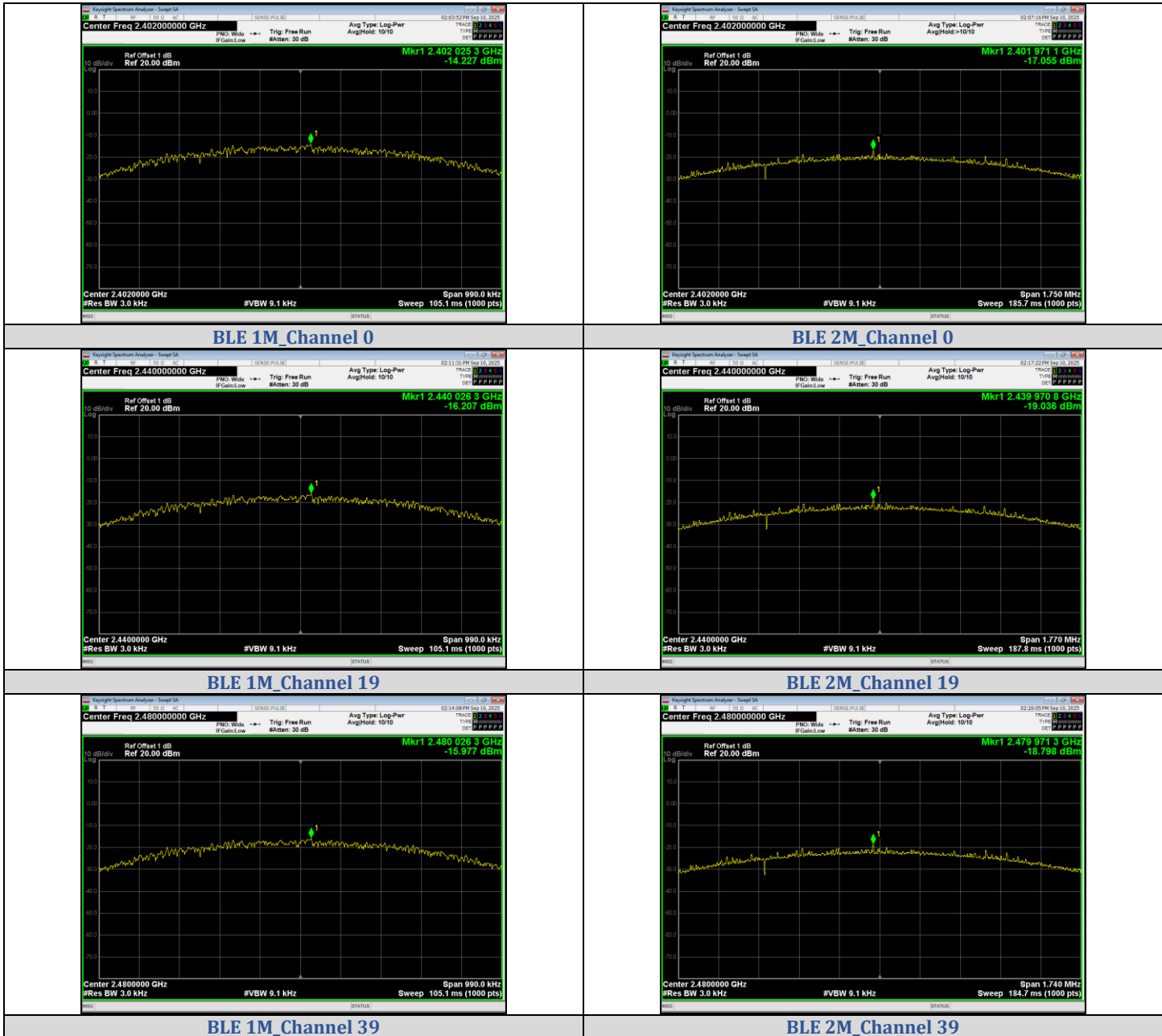


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.230	≤8	PASS
BLE 1M	19	-16.210	≤8	PASS
BLE 1M	39	-15.980	≤8	PASS
BLE 2M	0	-17.050	≤8	PASS
BLE 2M	19	-19.040	≤8	PASS
BLE 2M	39	-18.800	≤8	PASS

Test Graphs



***** End of Report *****