

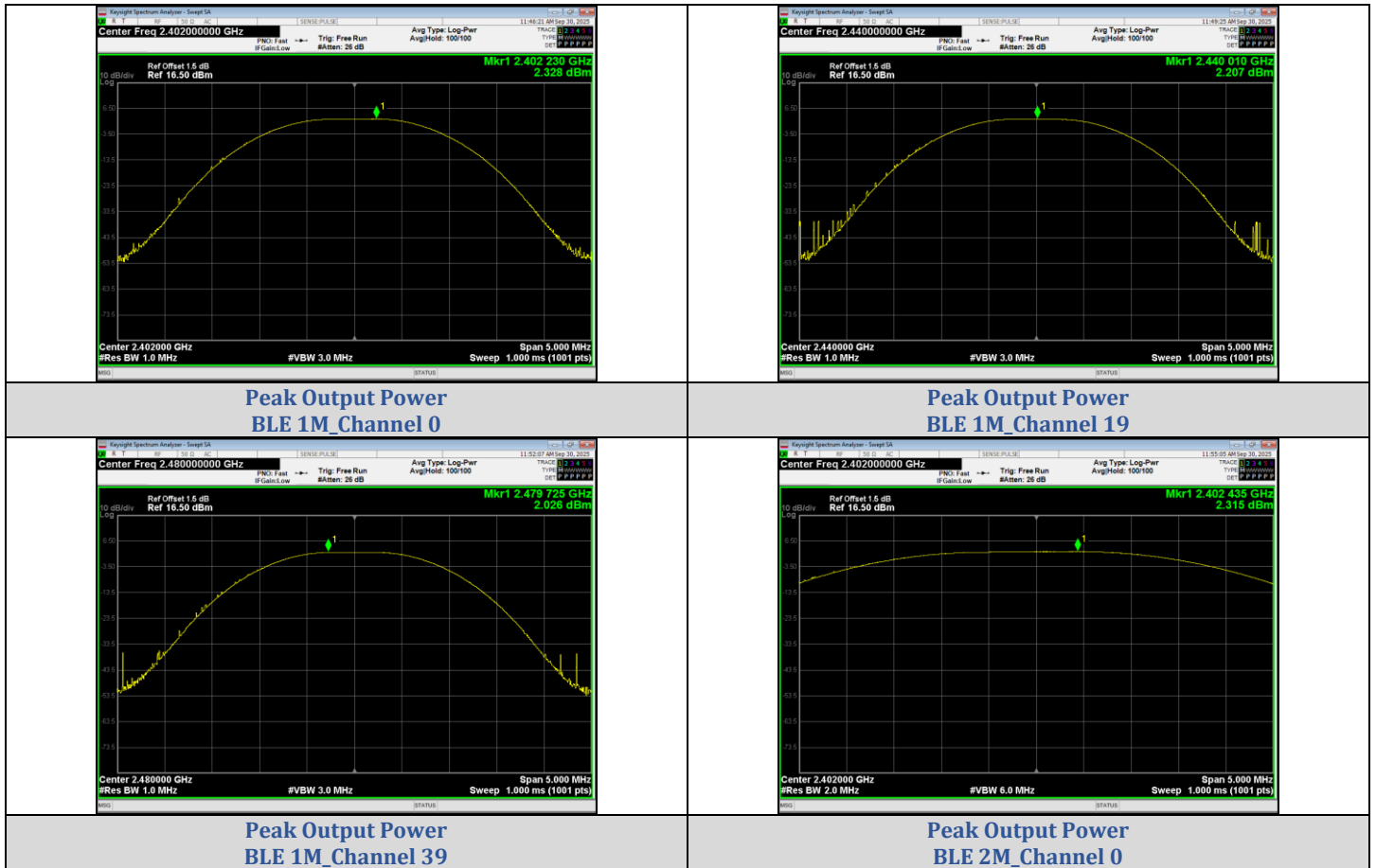
Appendix RF test data for BLE

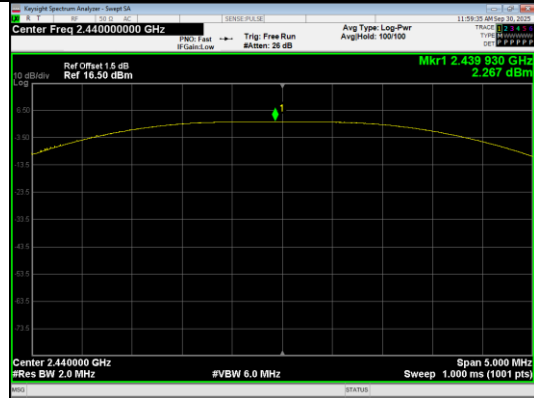
Conducted Output Power

Test Result

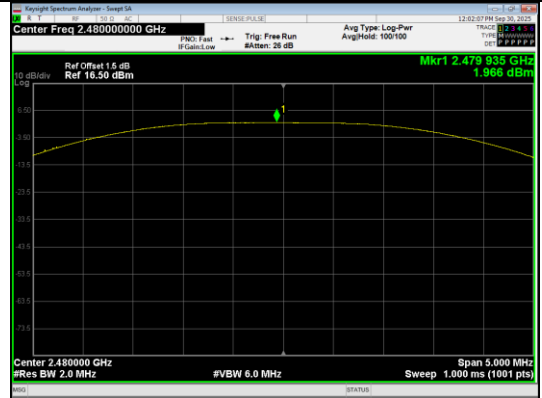
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.33	1.71	≤ 30	PASS
	19	2.21	1.66	≤ 30	PASS
	39	2.03	1.6	≤ 30	PASS
BLE 2M	0	2.31	1.7	≤ 30	PASS
	19	2.27	1.69	≤ 30	PASS
	39	1.97	1.57	≤ 30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



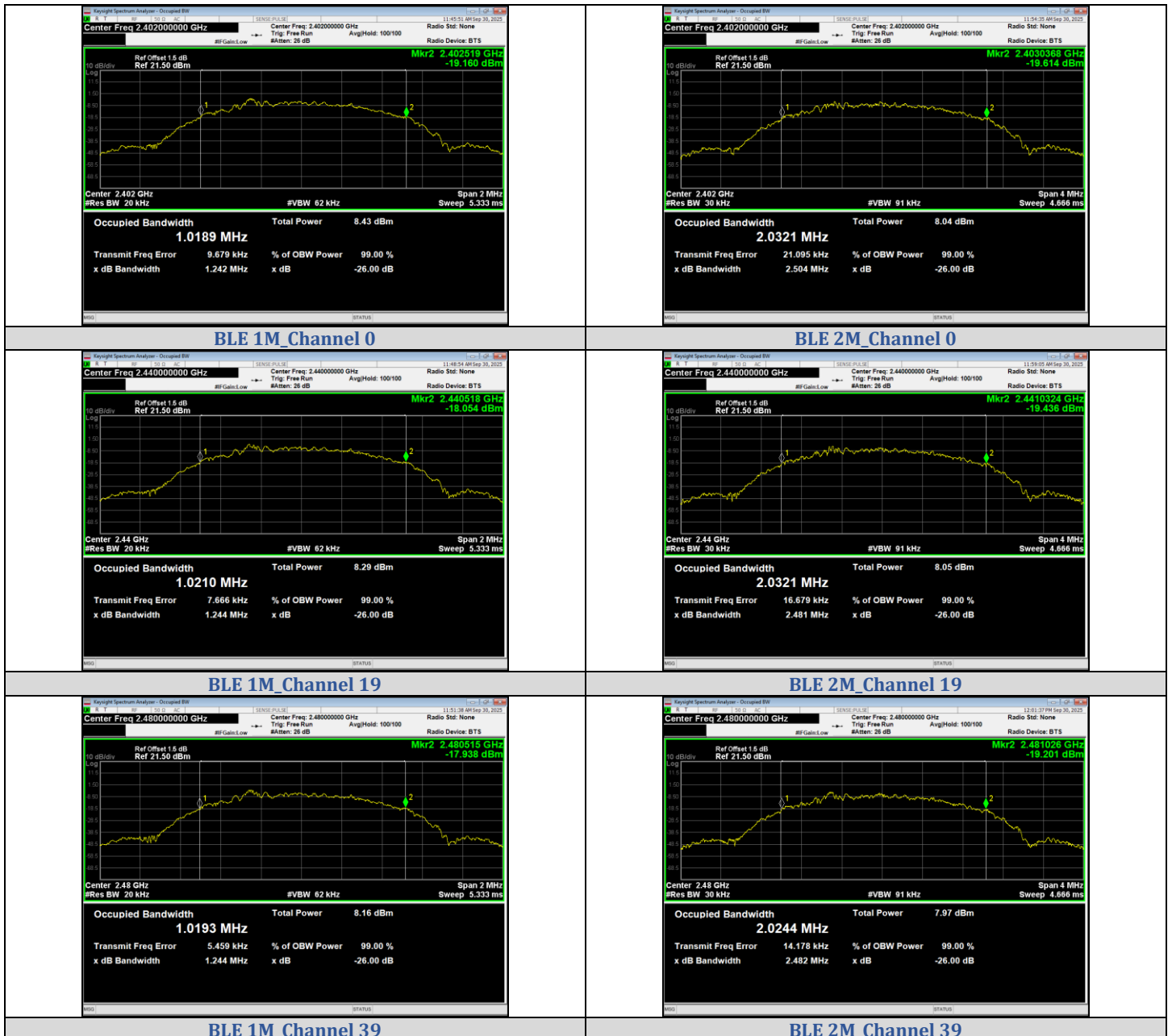
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0189
BLE 1M	19	2440	1.0210
BLE 1M	39	2480	1.0193
BLE 2M	0	2402	2.0321
BLE 2M	19	2440	2.0321
BLE 2M	39	2480	2.0244

Test Graphs

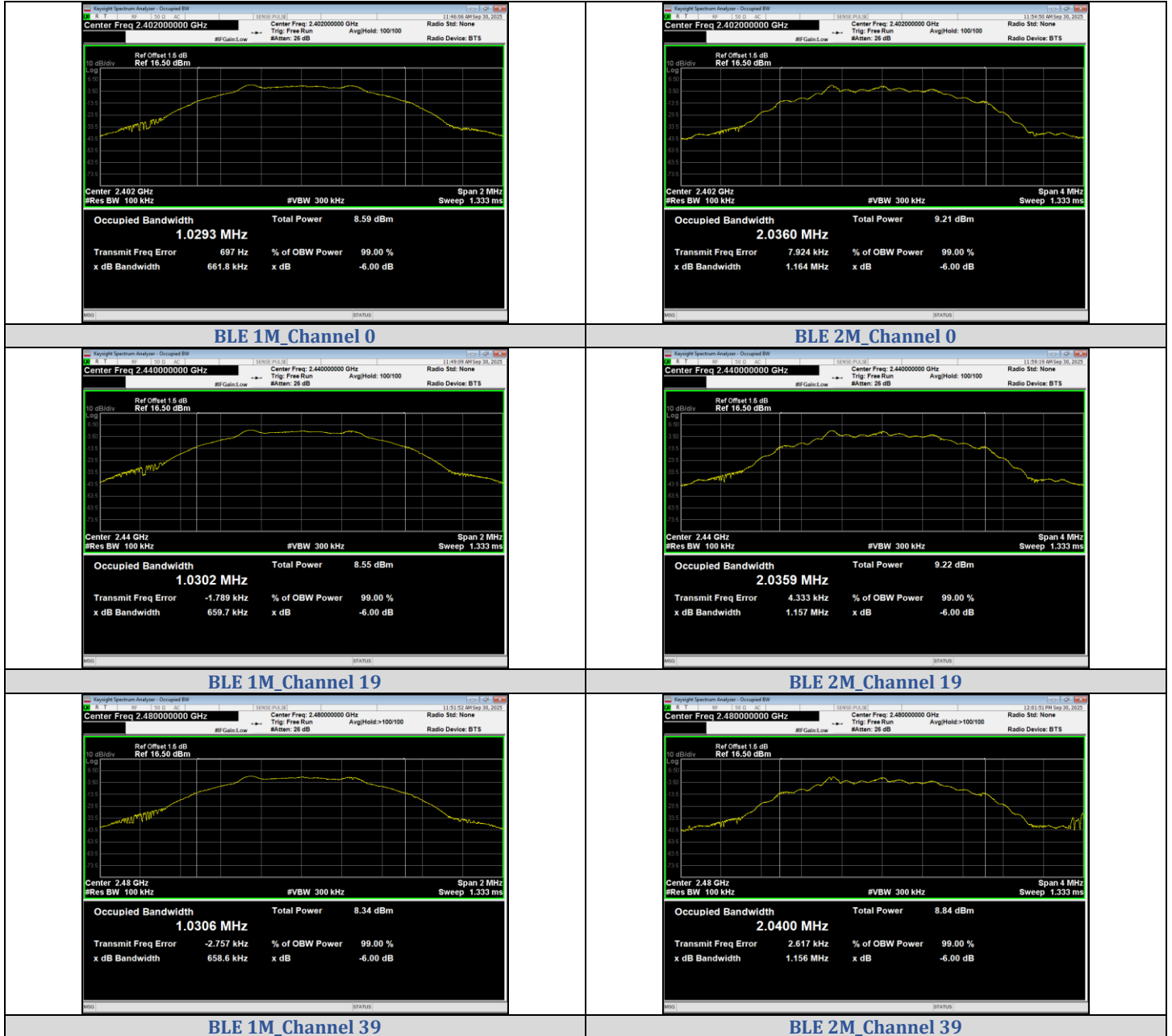


6dB Bandwidth

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	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

Test Graphs

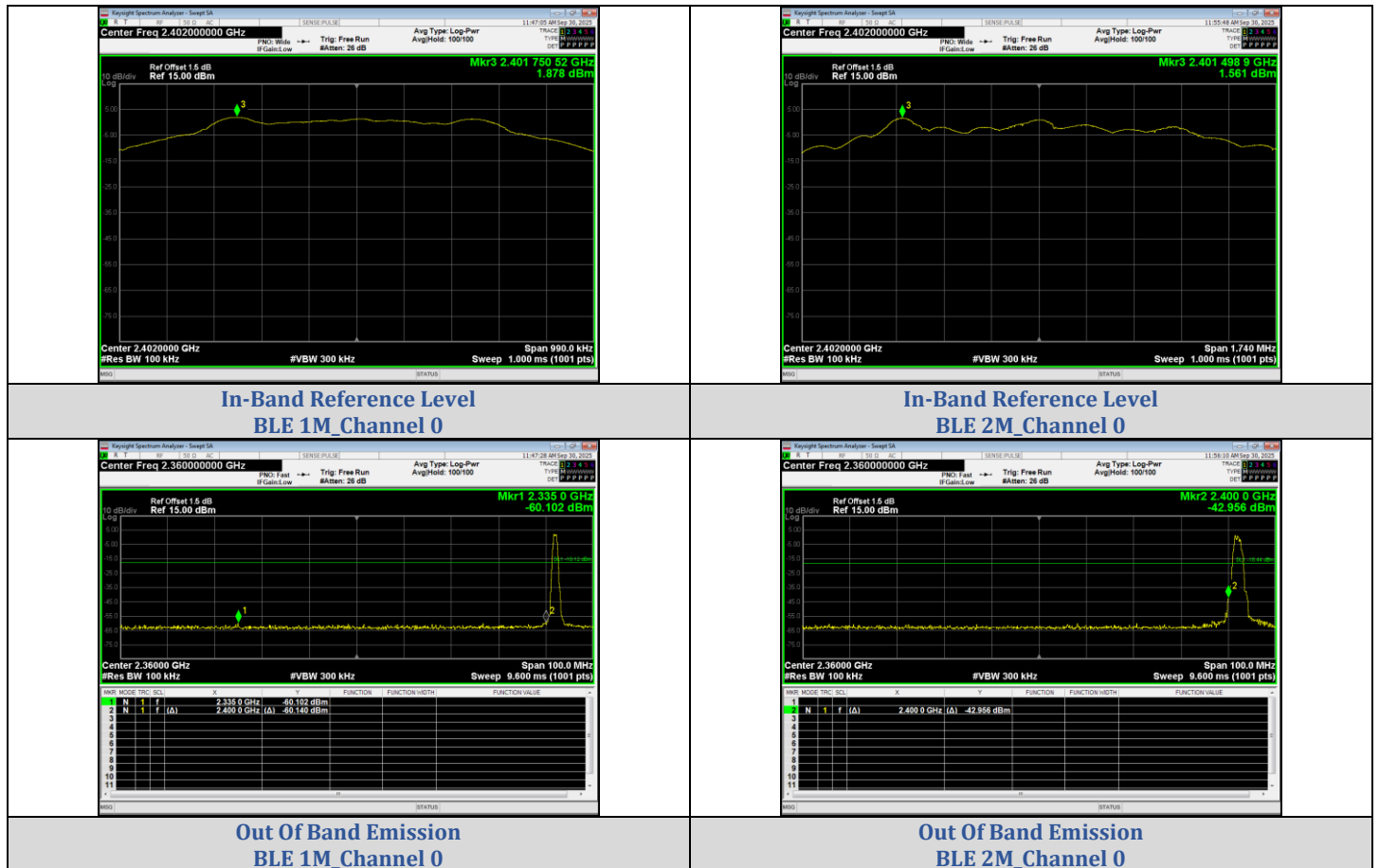


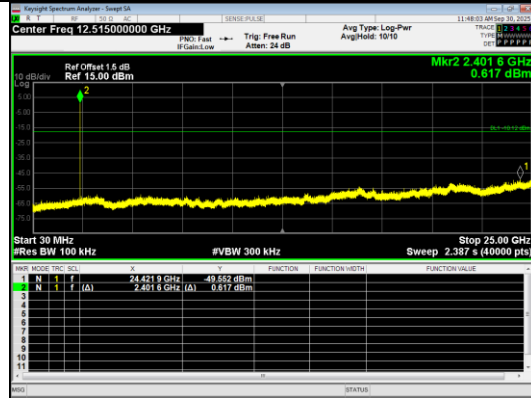
Conducted Out Of Band Emission

Test Result

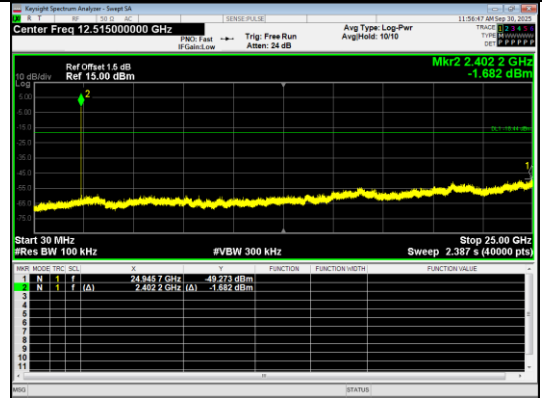
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2335.00	-60.102	-18.12	-41.982	PASS
		2400.00	-60.140	-18.12	-42.020	PASS
		24421.9	-49.552	-18.12	-31.432	PASS
	19	1746.11	-45.963	-18.1	-27.863	PASS
		1763.59	-38.367	-18.33	-20.037	PASS
		2483.50	-58.480	-18.33	-40.150	PASS
BLE 2M	0	2400.00	-42.960	-18.44	-24.520	PASS
		24945.7	-49.273	-18.44	-30.833	PASS
		24898.2	-49.026	-18.41	-30.616	PASS
	19	1763.59	-39.678	-18.62	-21.058	PASS
		2483.50	-58.120	-18.62	-39.500	PASS

Test Graphs





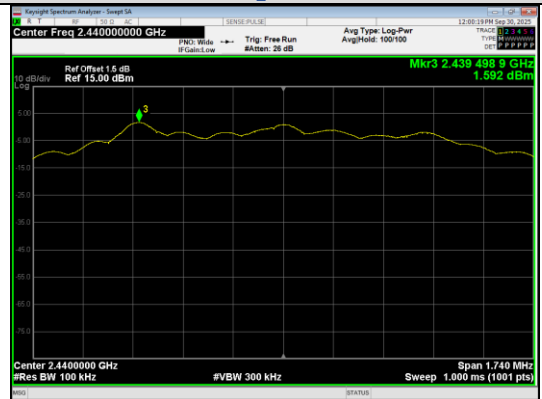
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



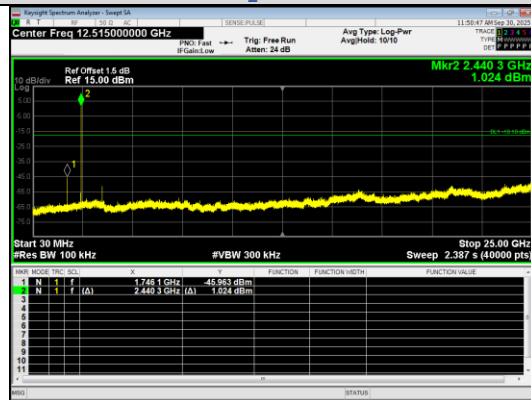
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



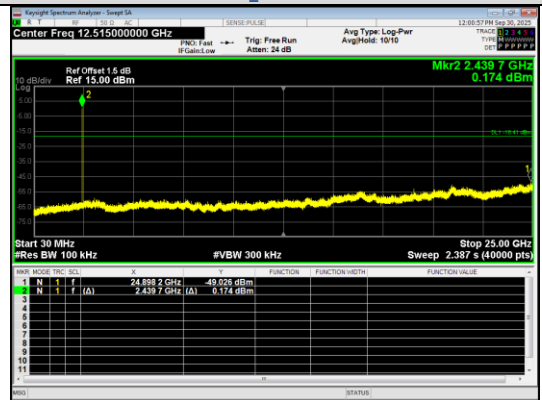
In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



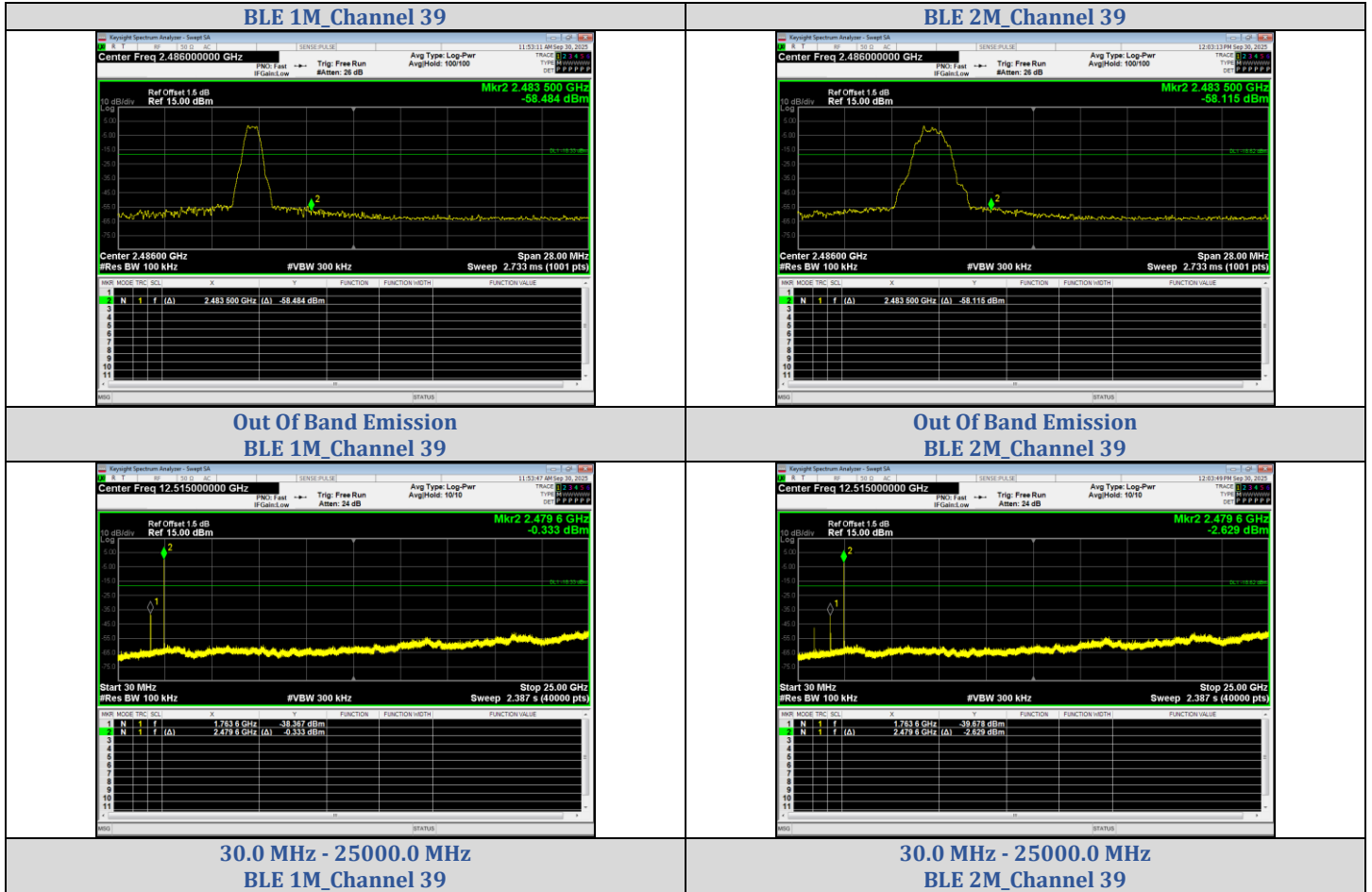
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



In-Band Reference Level



In-Band Reference Level

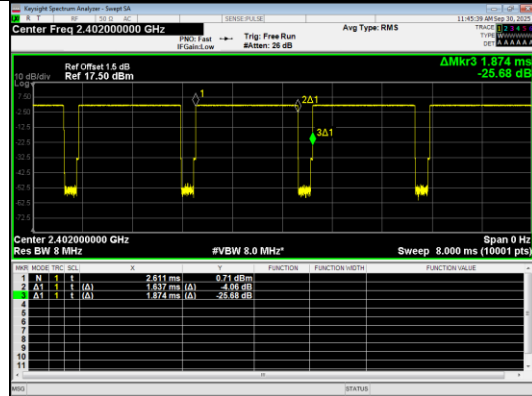


Duty Cycle

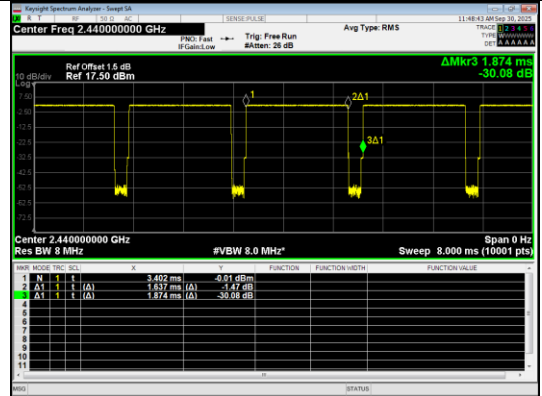
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	1.637	1.874	87.36	0.8736	0.5869	0.6109
	19	1.637	1.874	87.36	0.8736	0.5869	0.6109
	39	1.637	1.874	87.32	0.8732	0.5889	0.6109
BLE 2M	0	0.824	1.250	65.91	0.6591	1.8105	1.2136
	19	0.823	1.250	65.91	0.6591	1.8105	1.2151
	39	0.824	1.250	65.91	0.6591	1.8105	1.2136

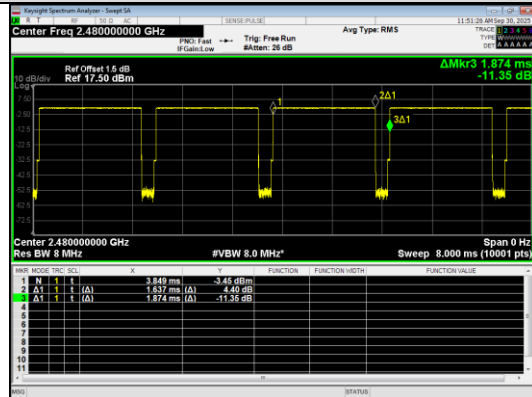
Test Graphs



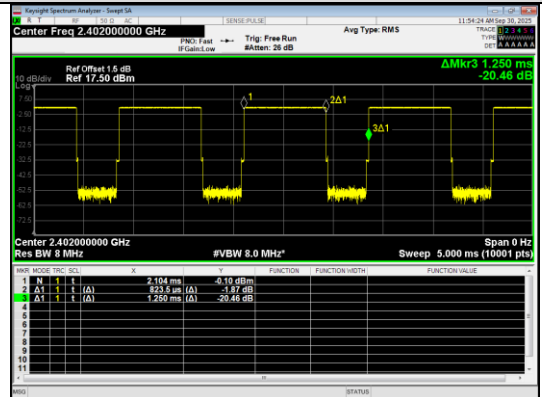
BLE 1M Channel 0



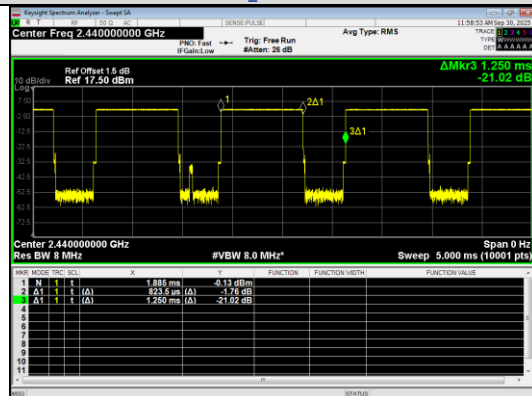
BLE 1M Channel 19



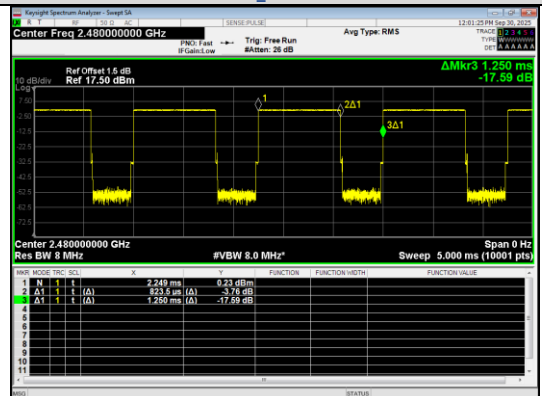
BLE 1M Channel 39



BLE 2M Channel 0



BLE 2M Channel 19



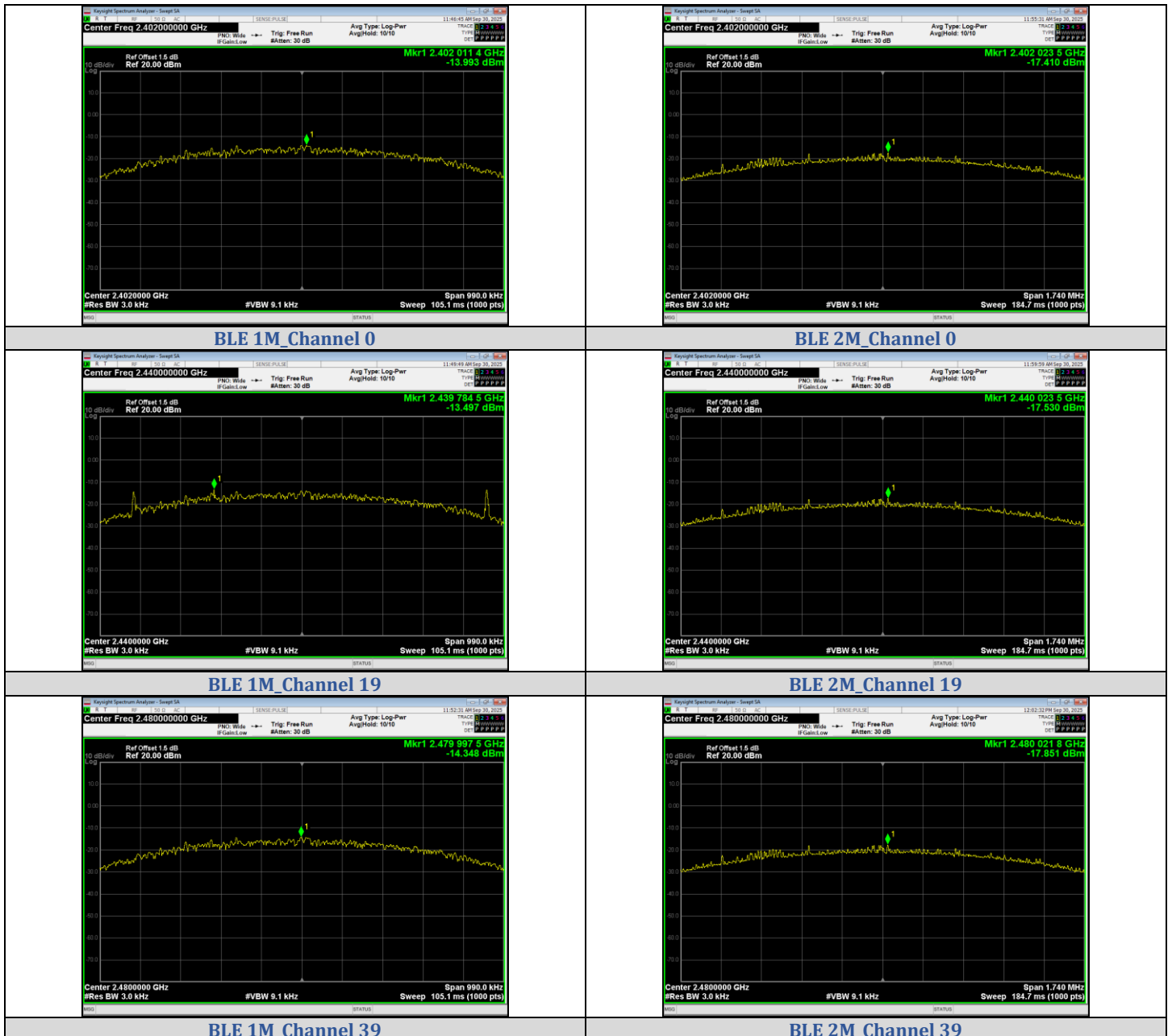
BLE 2M Channel 39

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.990	≤8	PASS
BLE 1M	19	-13.500	≤8	PASS
BLE 1M	39	-14.350	≤8	PASS
BLE 2M	0	-17.410	≤8	PASS
BLE 2M	19	-17.530	≤8	PASS
BLE 2M	39	-17.850	≤8	PASS

Test Graphs



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