

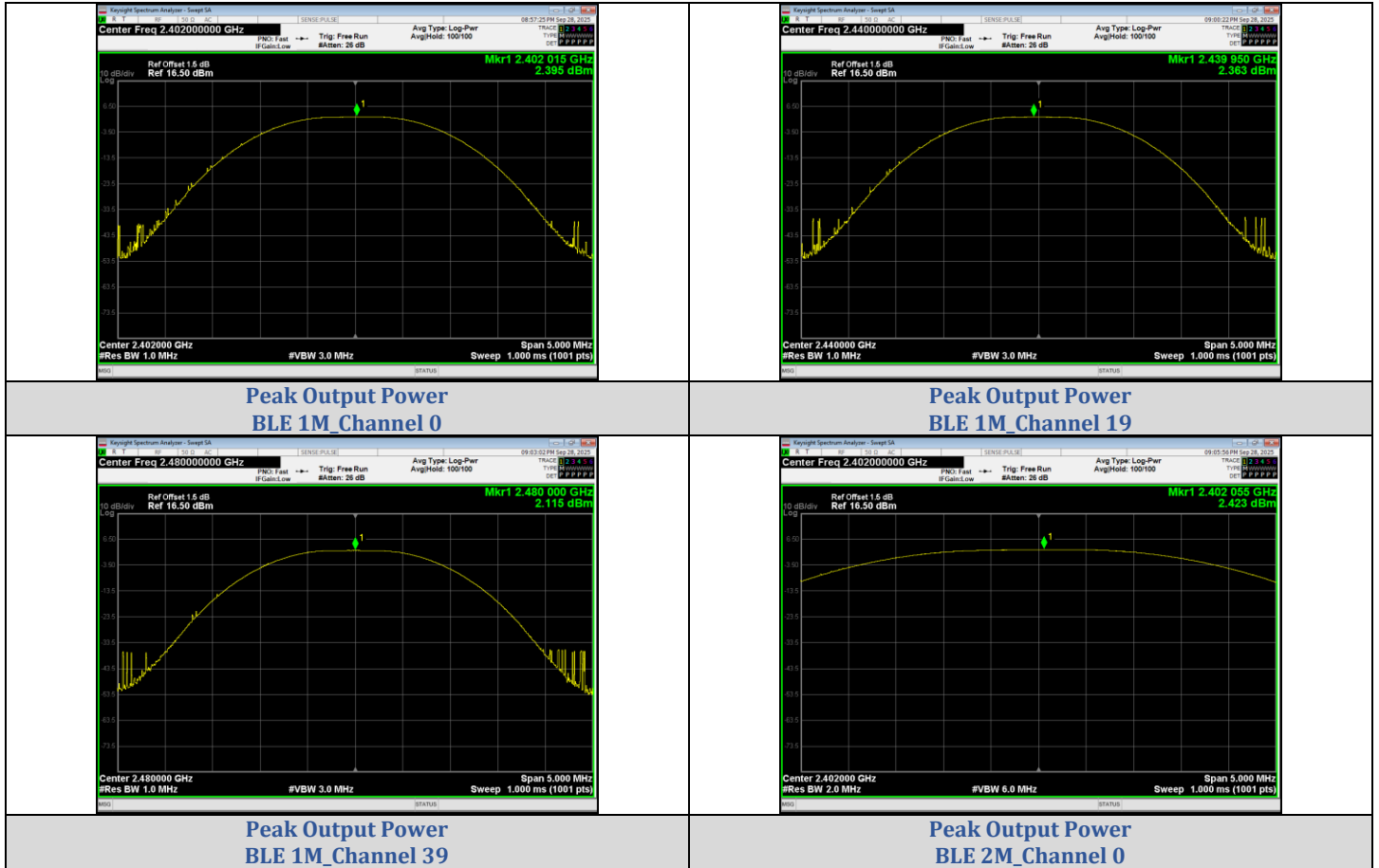
Appendix RF test data for BLE

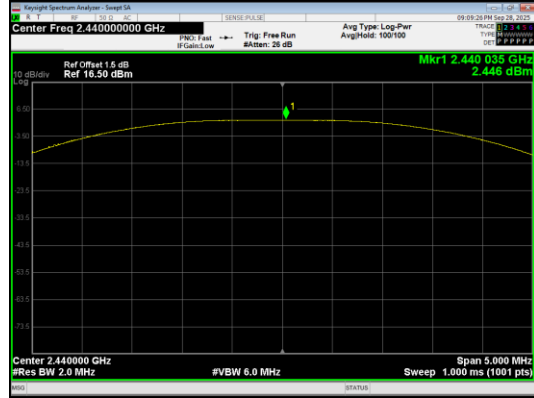
Conducted Output Power

Test Result

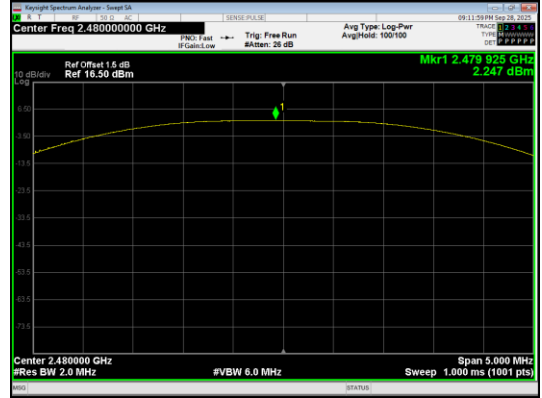
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.40	1.74	≤30	PASS
	19	2.36	1.72	≤30	PASS
	39	2.12	1.63	≤30	PASS
BLE 2M	0	2.42	1.75	≤30	PASS
	19	2.45	1.76	≤30	PASS
	39	2.25	1.68	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



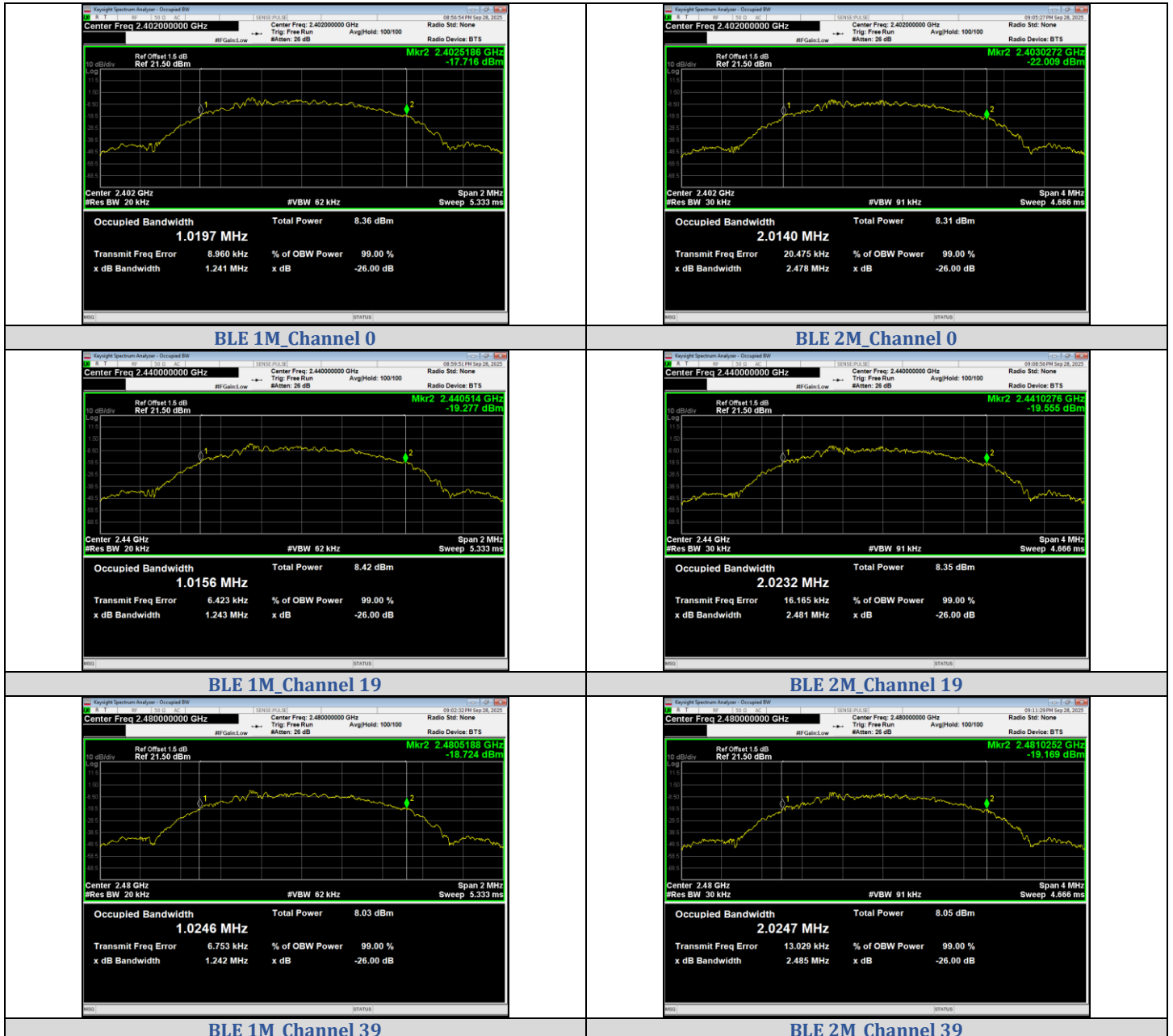
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0197
BLE 1M	19	2440	1.0156
BLE 1M	39	2480	1.0246
BLE 2M	0	2402	2.0140
BLE 2M	19	2440	2.0232
BLE 2M	39	2480	2.0247

Test Graphs

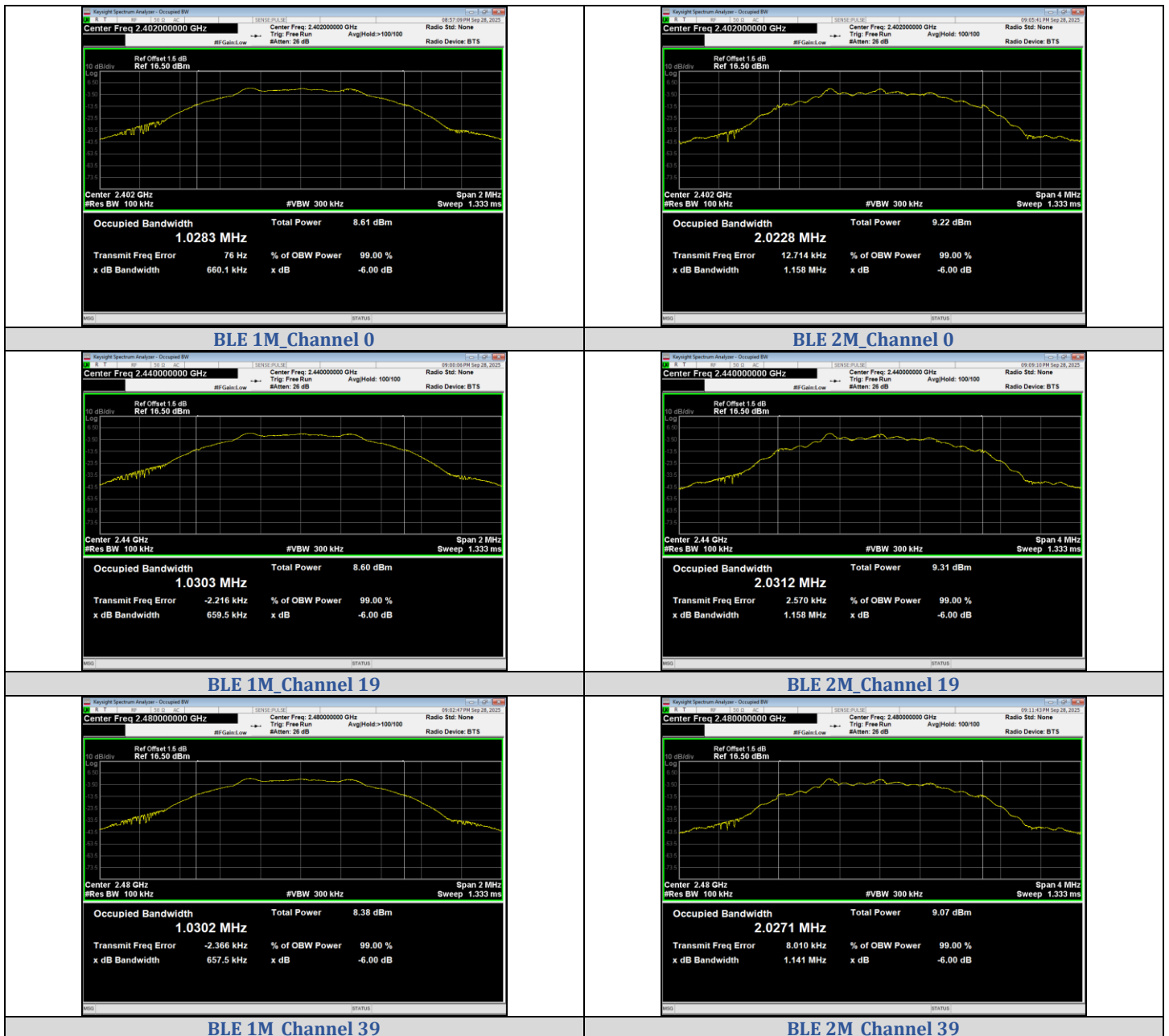


6dB Bandwidth

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	1.140		PASS

Test Graphs

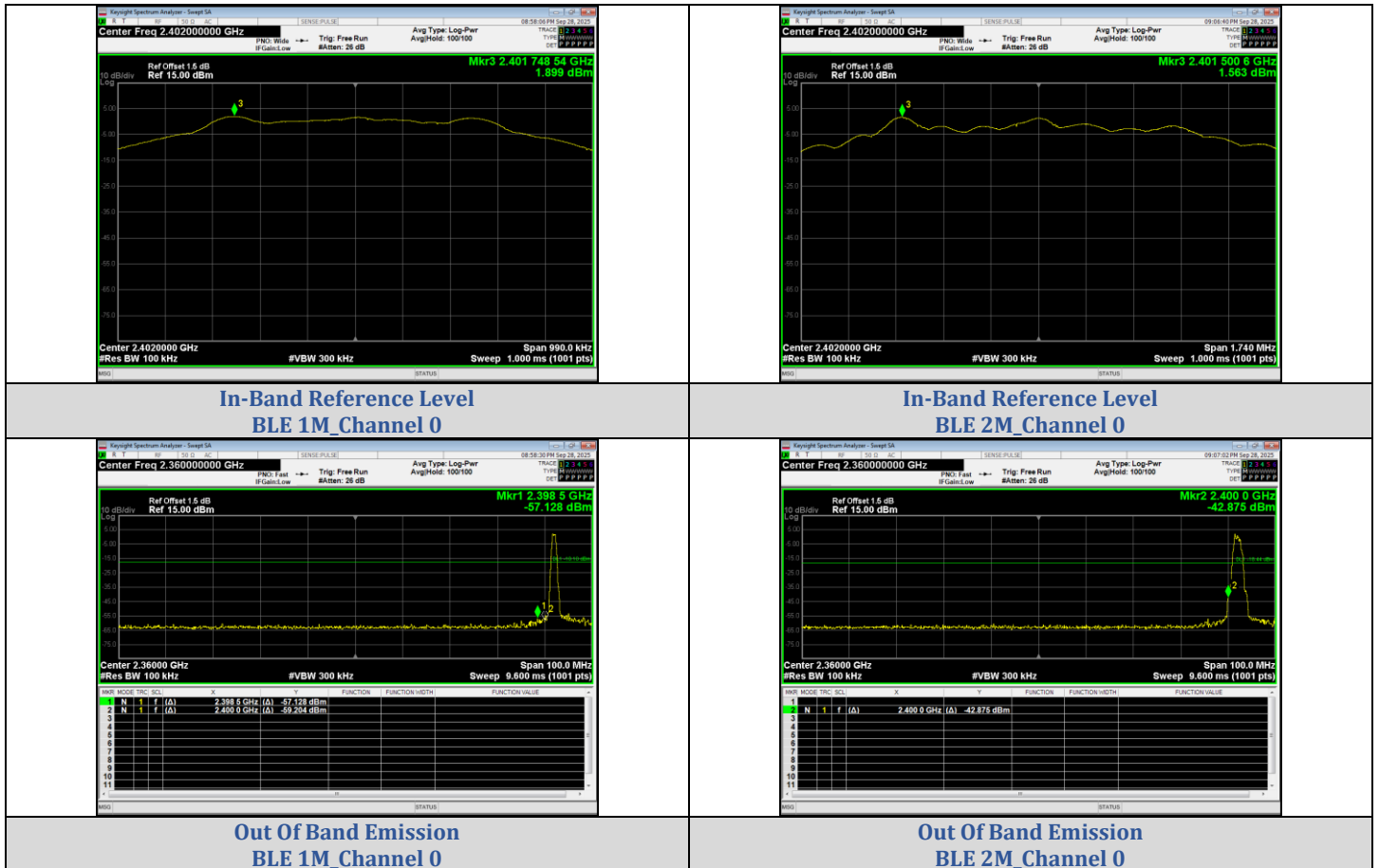


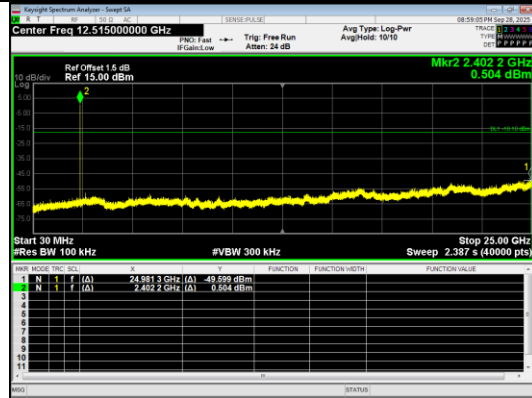
Conducted Out Of Band Emission

Test Result

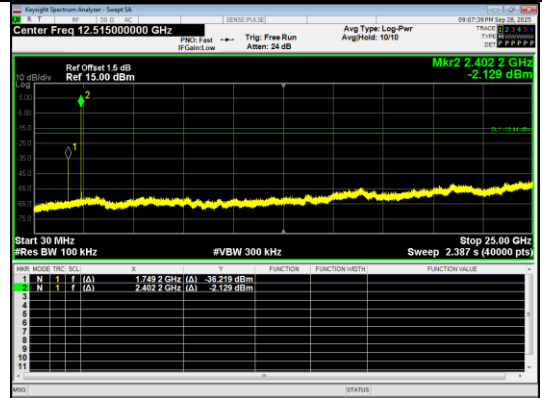
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.50	-57.128	-18.1	-39.028	PASS
		2400.00	-59.200	-18.1	-41.100	PASS
		24981.3	-49.599	-18.1	-31.499	PASS
	39	24982.5	-48.945	-18.06	-30.885	PASS
		1764.21	-41.192	-18.27	-22.922	PASS
		2483.50	-56.180	-18.27	-37.910	PASS
BLE 2M	0	1749.23	-36.219	-18.44	-17.779	PASS
		2400.00	-42.880	-18.44	-24.440	PASS
		1763.59	-39.360	-18.32	-21.040	PASS
	39	2483.50	-57.880	-18.51	-39.370	PASS
		24401.3	-49.710	-18.51	-31.200	PASS

Test Graphs





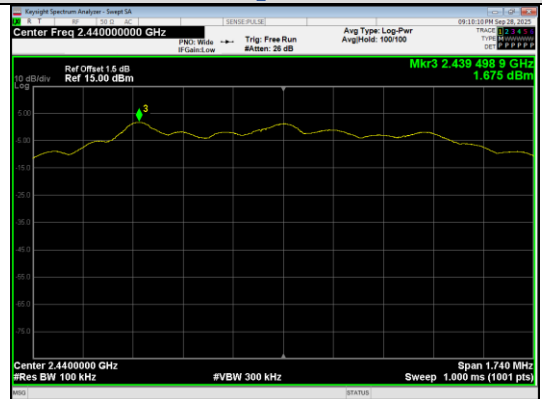
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



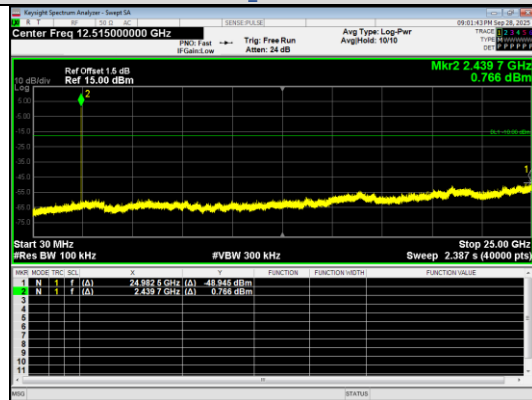
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



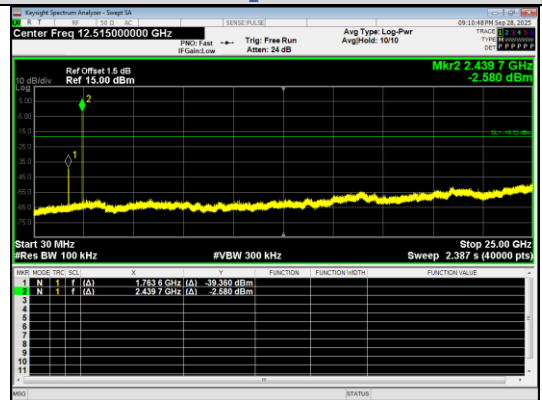
In-Band Reference Level
BLE 1M_Channel 19



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

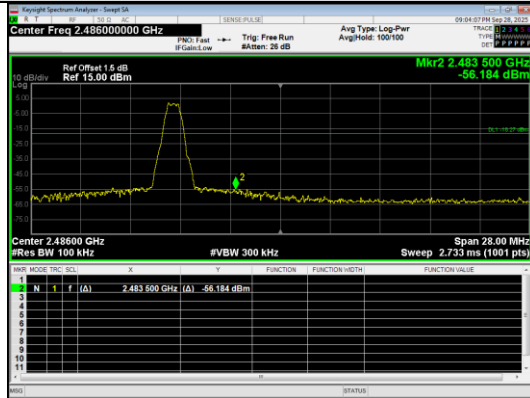


In-Band Reference Level

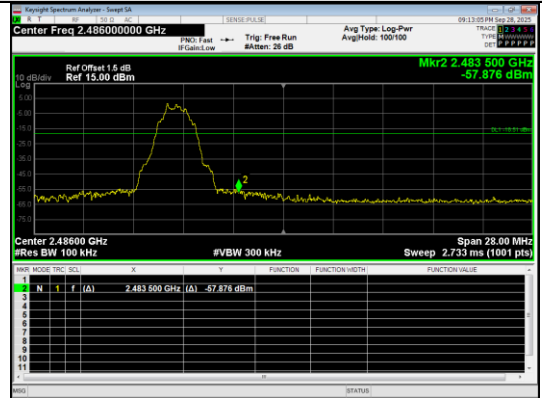


In-Band Reference Level

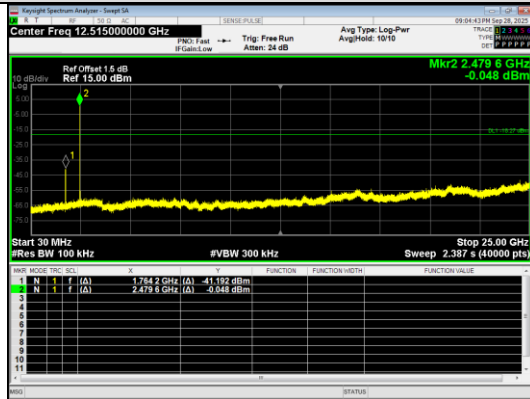
BLE 1M_Channel 39



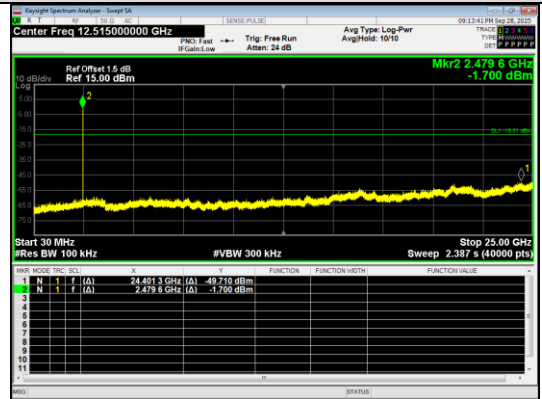
BLE 2M_Channel 39



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	1.637	1.874	87.32	0.8732	0.5889	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	0.823	1.250	65.88	0.6588	1.8125	1.2151
	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

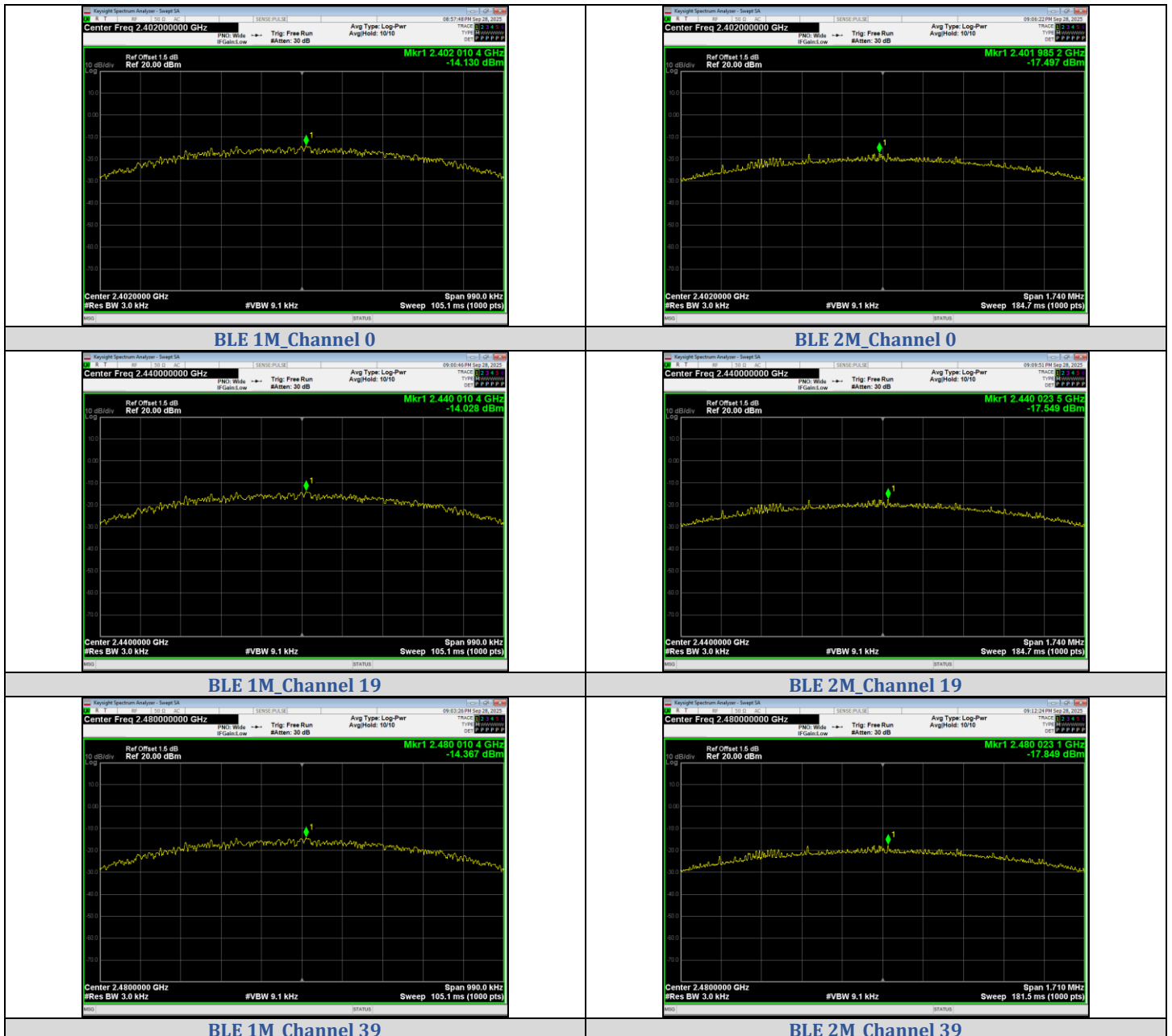


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.130	≤8	PASS
BLE 1M	19	-14.030	≤8	PASS
BLE 1M	39	-14.370	≤8	PASS
BLE 2M	0	-17.500	≤8	PASS
BLE 2M	19	-17.550	≤8	PASS
BLE 2M	39	-17.850	≤8	PASS

Test Graphs



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