

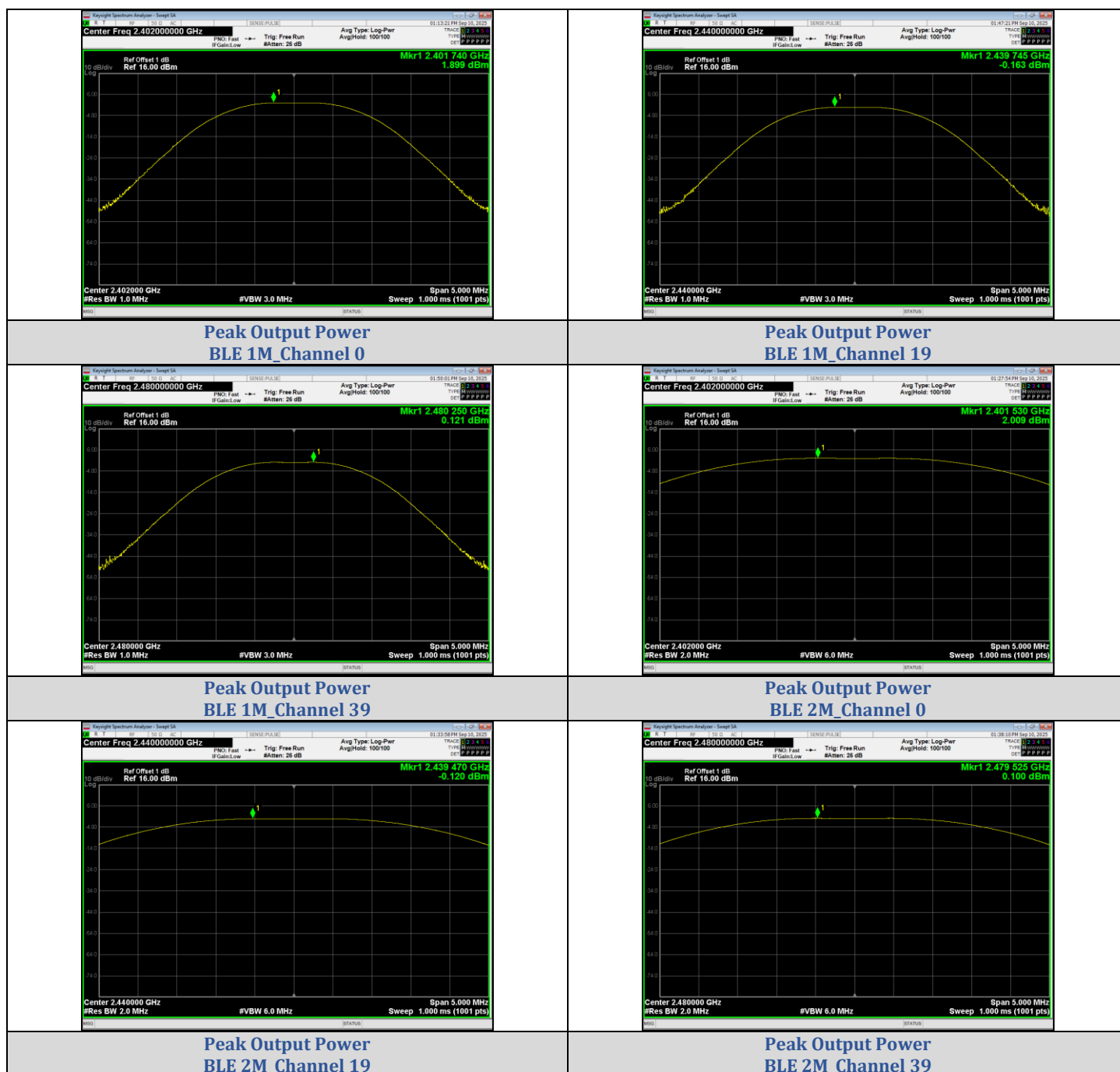
Appendix RF test data for BLE

Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.90	1.55	≤30	PASS
	19	-0.16	0.96	≤30	PASS
	39	0.12	1.03	≤30	PASS
BLE 2M	0	2.01	1.59	≤30	PASS
	19	-0.12	0.97	≤30	PASS
	39	0.10	1.02	≤30	PASS

Test Graphs

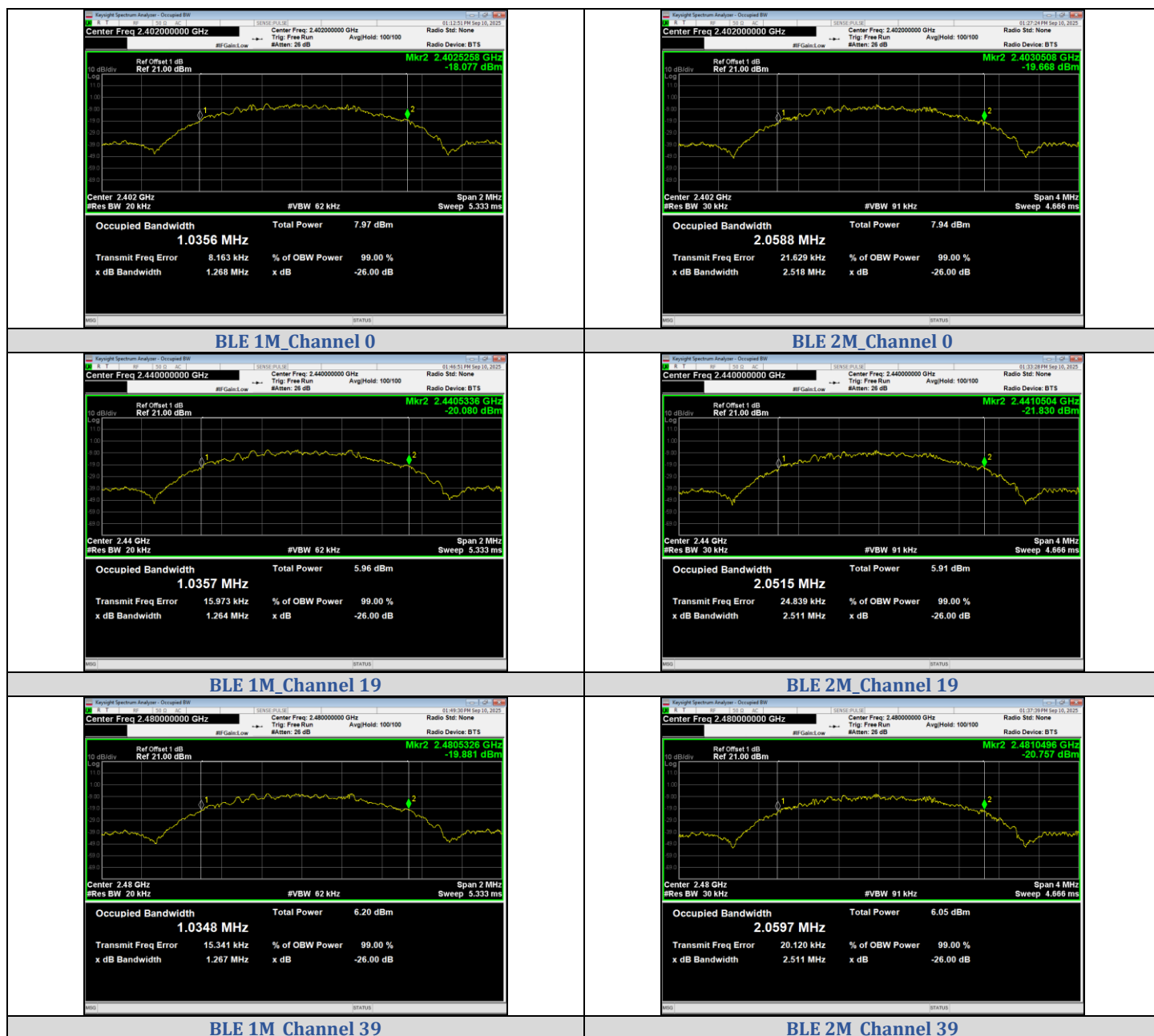


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0356
BLE 1M	19	2440	1.0357
BLE 1M	39	2480	1.0348
BLE 2M	0	2402	2.0588
BLE 2M	19	2440	2.0515
BLE 2M	39	2480	2.0597

Test Graphs

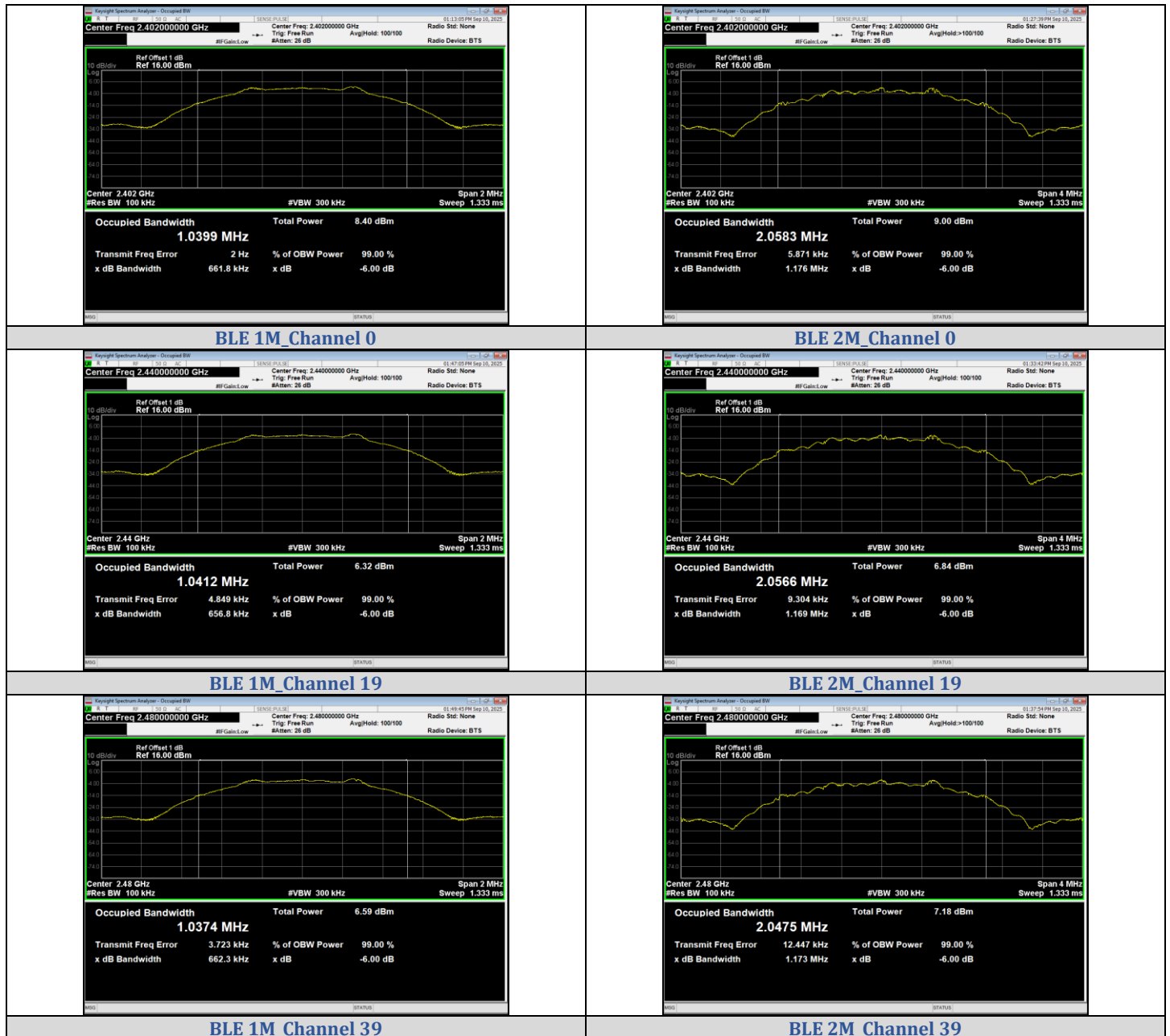


6dB Bandwidth

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	1.180		PASS
	19	2440	1.170		PASS
	39	2480	1.170		PASS

Test Graphs

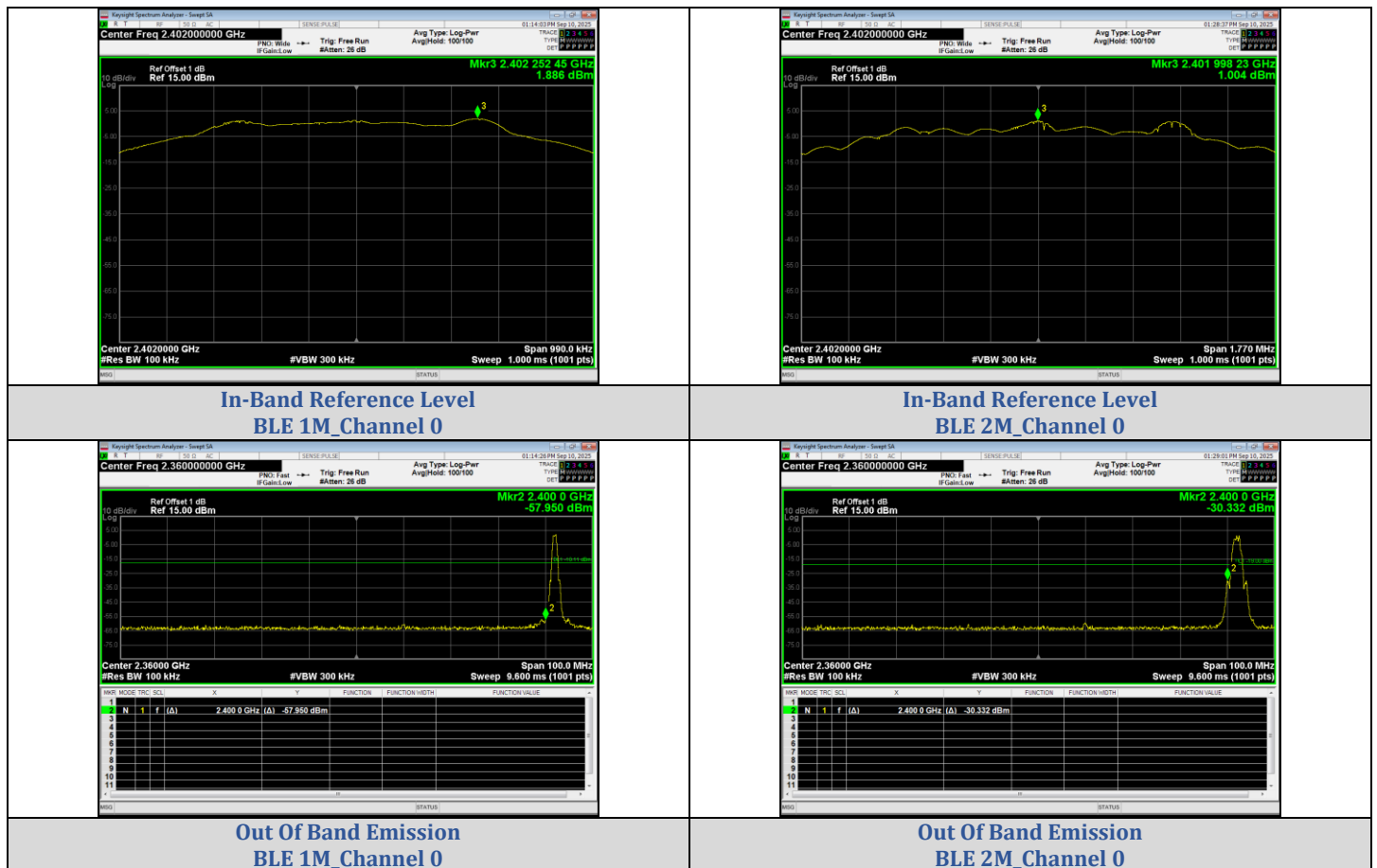


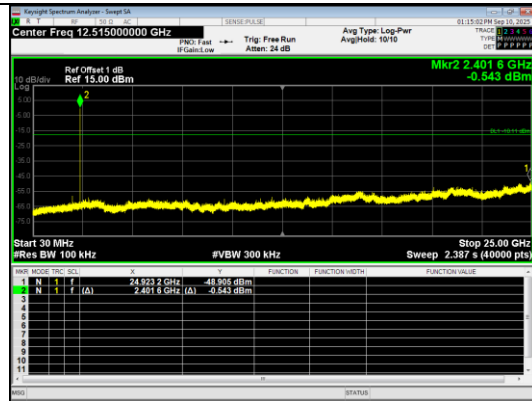
Conducted Out Of Band Emission

Test Result

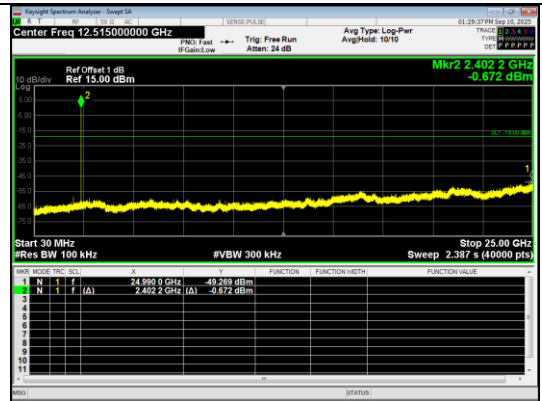
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-57.950	-18.11	-39.840	PASS
		24923.2	-48.905	-18.11	-30.795	PASS
	39	24993.8	-47.277	-20.19	-27.087	PASS
		2483.50	-62.550	-19.97	-42.580	PASS
BLE 2M	0	2400.00	-30.330	-19.0	-11.330	PASS
		24990.0	-49.269	-19.0	-30.269	PASS
	19	24784.6	-48.950	-21.07	-27.880	PASS
		2483.50	-60.970	-20.85	-40.120	PASS
	39	24923.2	-49.799	-20.85	-28.949	PASS

Test Graphs





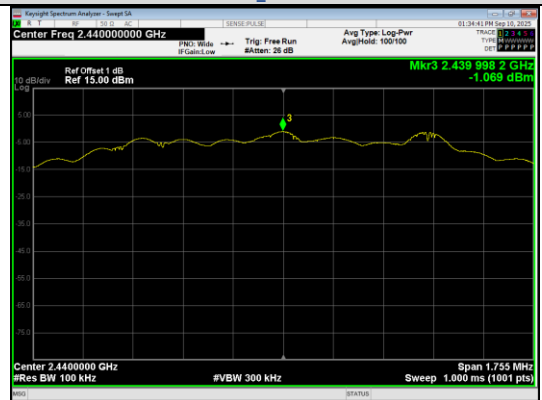
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



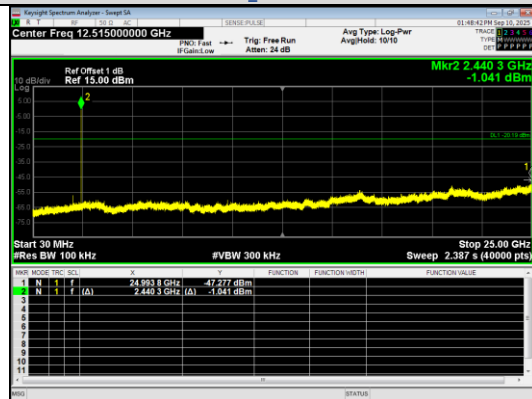
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



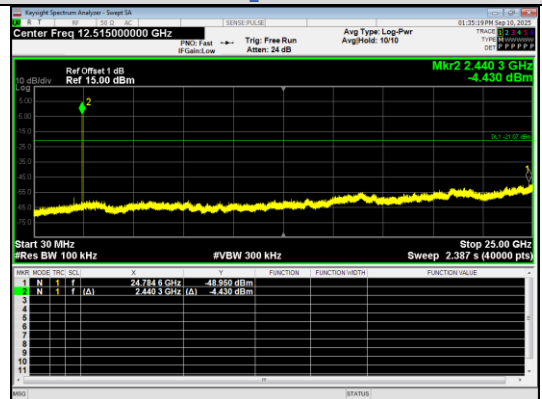
In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19



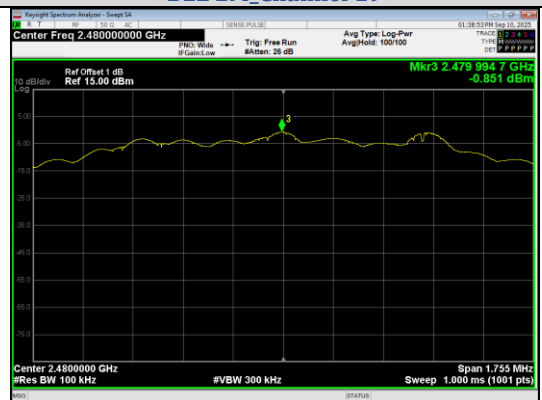
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



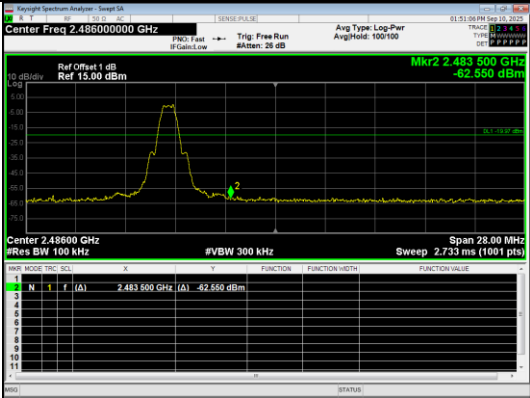
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



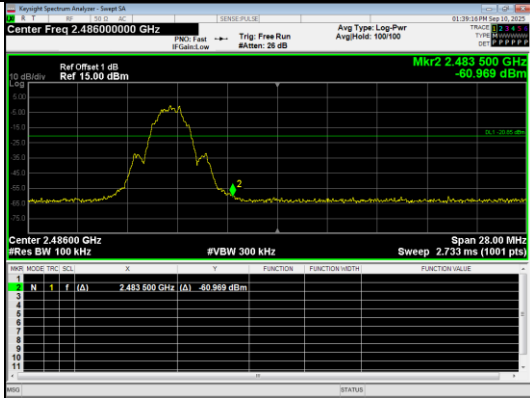
In-Band Reference Level
BLE 1M_Channel 39



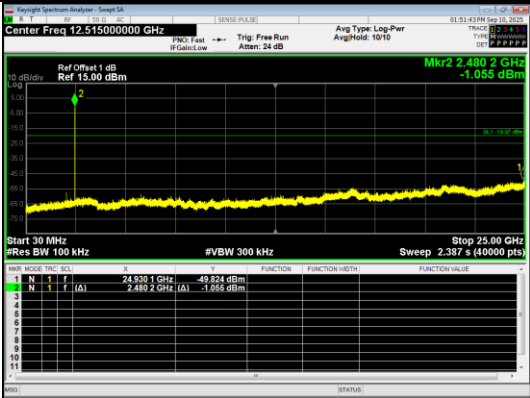
In-Band Reference Level
BLE 2M_Channel 39



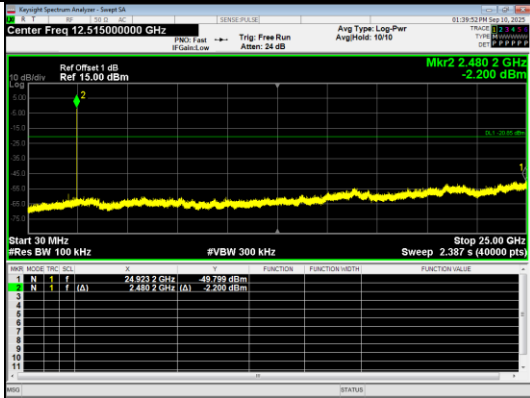
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



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	2.123	2.499	84.94	0.8494	0.7089	0.4710
BLE 2M	0	1.066	1.874	56.92	0.5692	2.4474	0.9381
	19	1.066	1.875	56.89	0.5689	2.4496	0.9381
	39	1.067	1.874	56.94	0.5694	2.4458	0.9372

Test Graphs

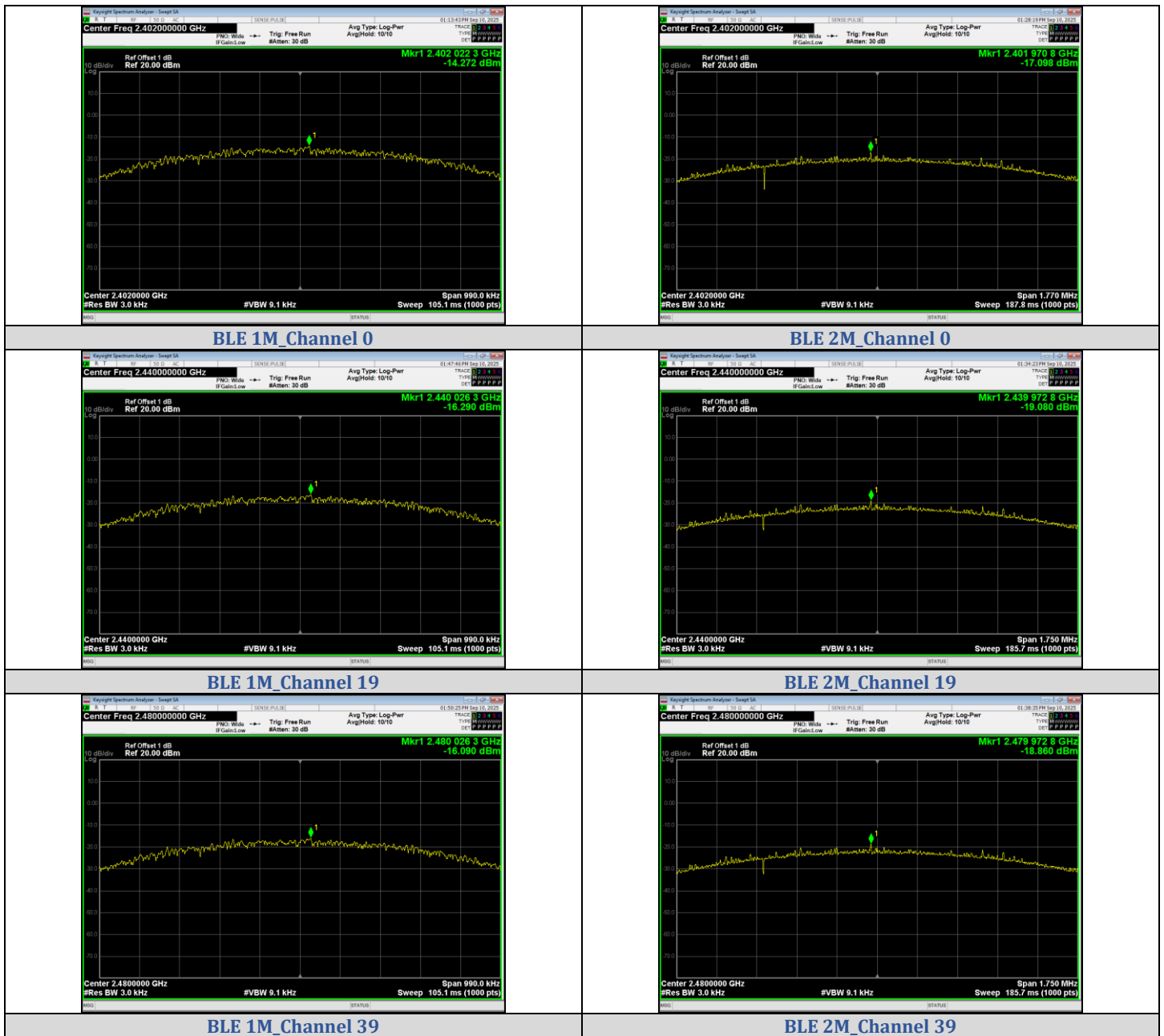


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.270	≤8	PASS
BLE 1M	19	-16.290	≤8	PASS
BLE 1M	39	-16.090	≤8	PASS
BLE 2M	0	-17.100	≤8	PASS
BLE 2M	19	-19.080	≤8	PASS
BLE 2M	39	-18.860	≤8	PASS

Test Graphs



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