

Appendix A:Test Results of Bluetooth BLE

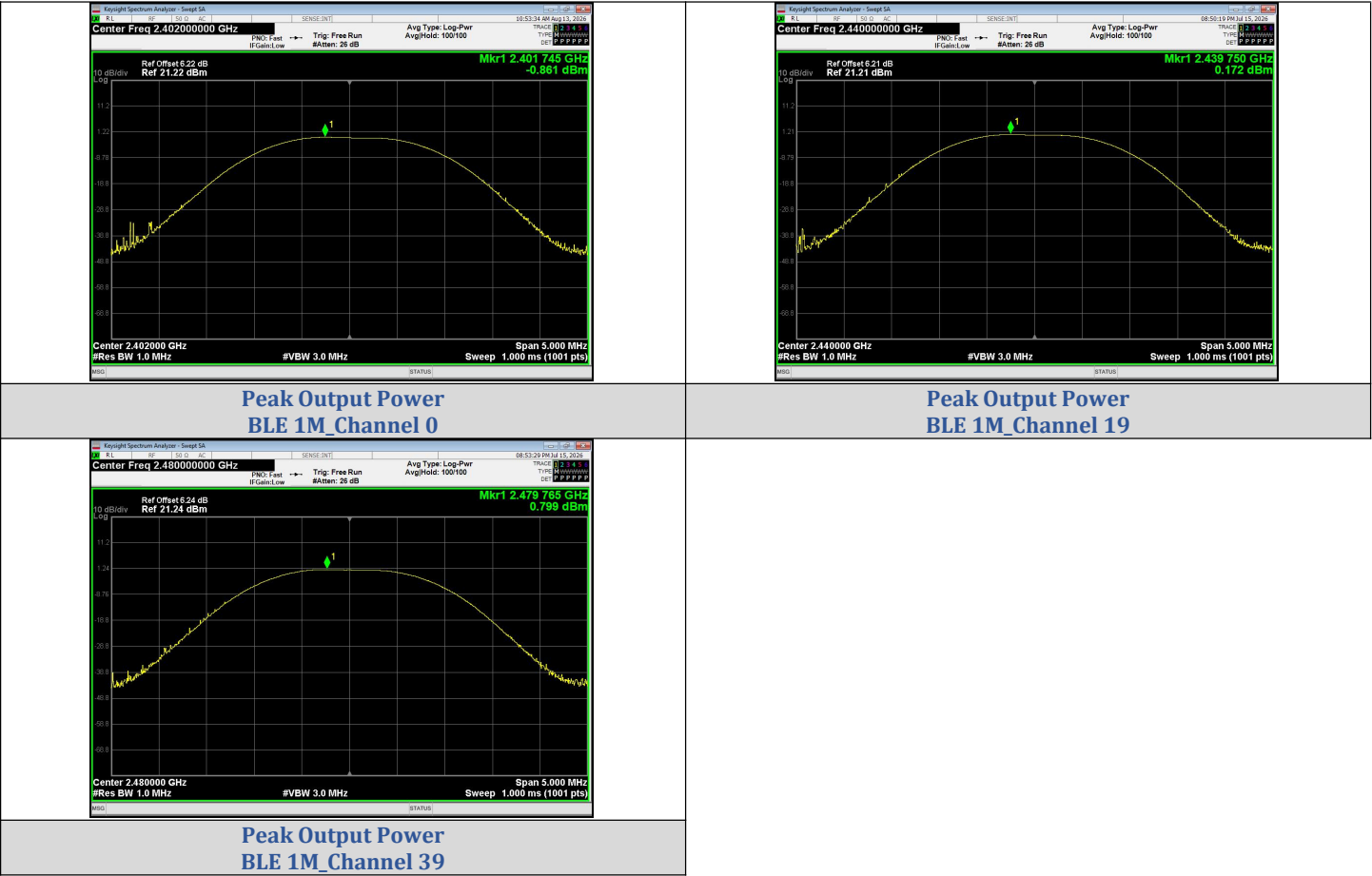
Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
BLE 1M	0	-0.861	0.82	None	≤30	PASS
	19	0.172	1.04	None	≤30	PASS
	39	0.799	1.2	None	≤30	PASS

Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Verdict
BLE 1M	0	-0.861	≤30	-0.861	≤36.02	None	PASS
	19	0.172	≤30	0.172	≤36.02	None	PASS
	39	0.799	≤30	0.799	≤36.02	None	PASS

Test Graphs

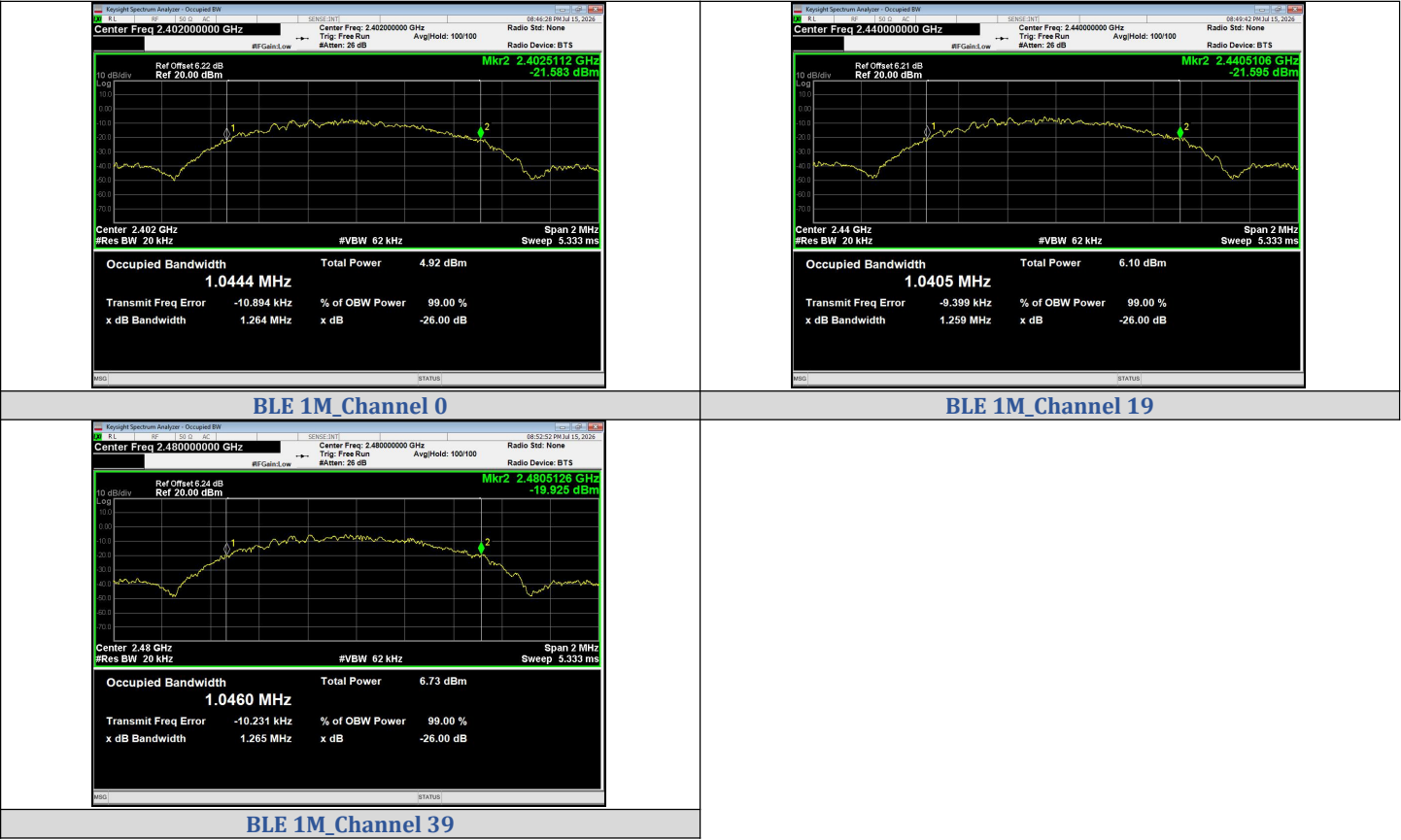


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.04
BLE 1M	19	2440	1.04
BLE 1M	39	2480	1.05

Test Graphs

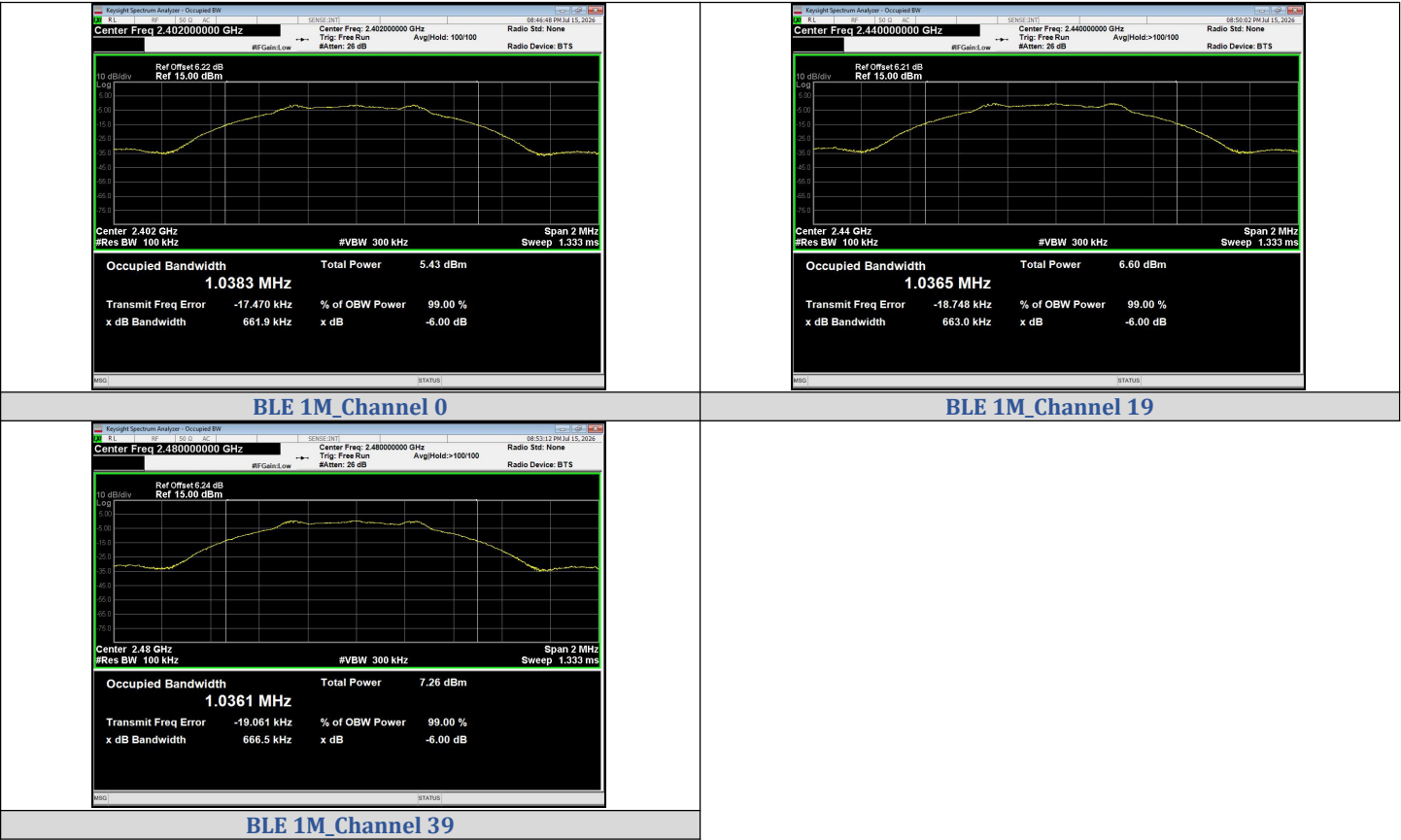


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
BLE 1M	0	2402	0.6619	≥0.5	PASS
	19	2440	0.6630		PASS
	39	2480	0.6665		PASS

Test Graphs



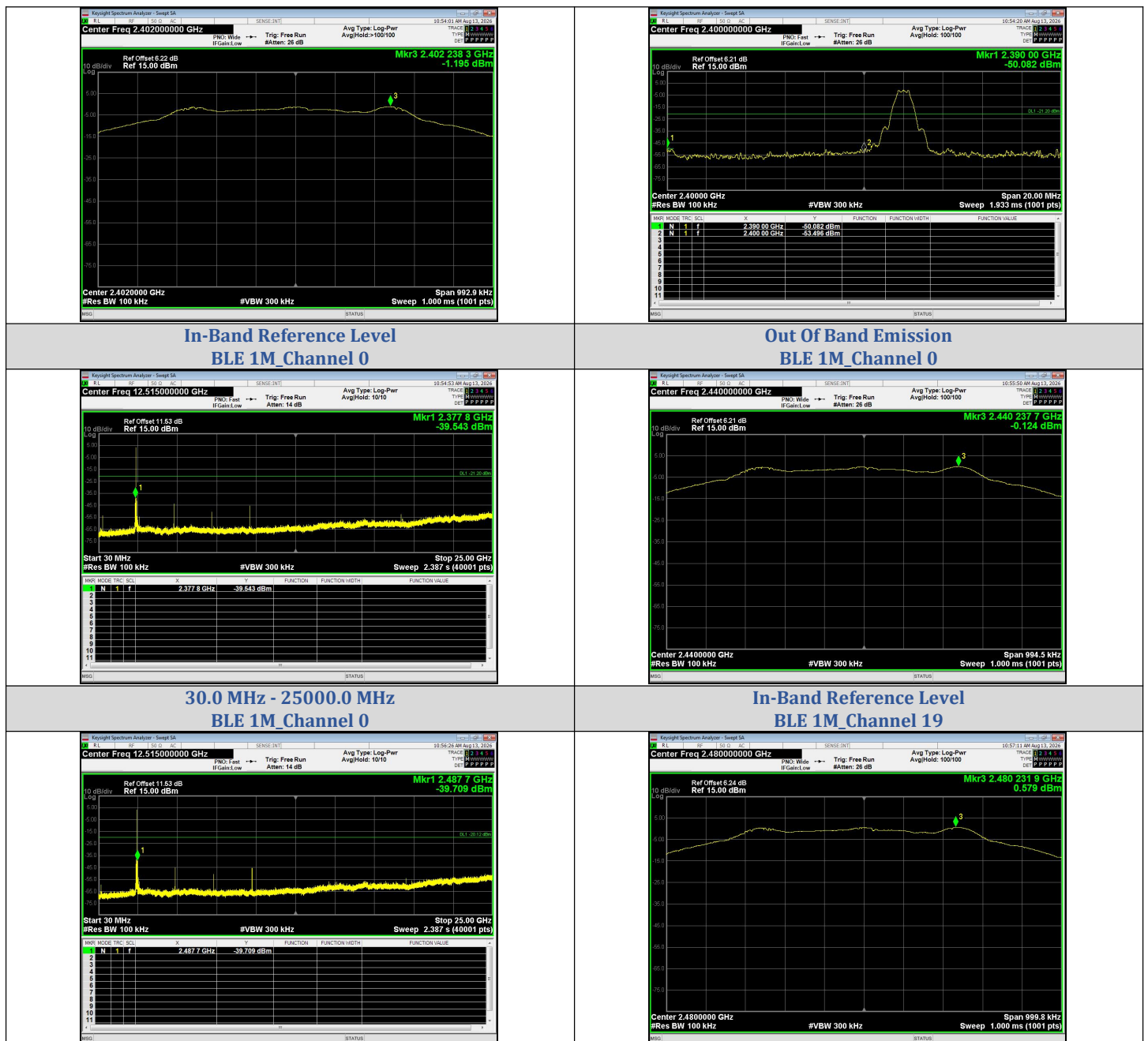
Conducted Spurious & Band Edge Emission

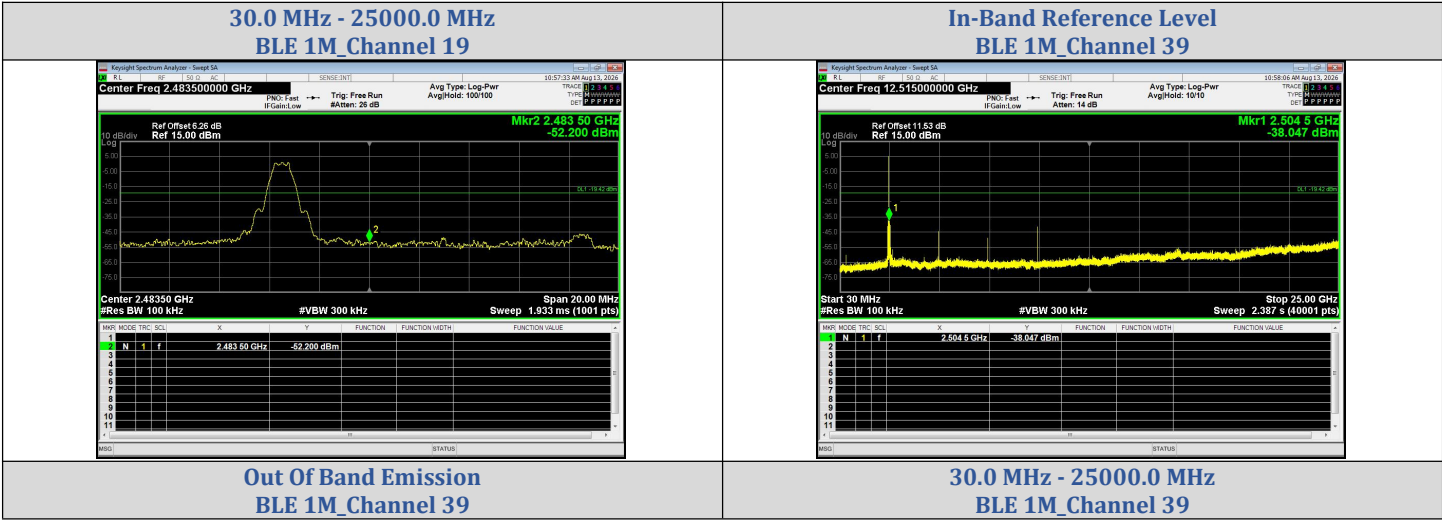
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
BLE 1M	0	2377.80	-39.543	-21.20	-18.343	PASS
		2390.00	-50.082	-21.20	-28.882	PASS
		2400.00	-53.496	-21.20	-32.296	PASS
	19	2487.67	-39.709	-20.12	-19.589	PASS
	39	2483.50	-52.200	-19.42	-32.780	PASS
		2504.53	-38.047	-19.42	-18.627	PASS

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

Test Graphs





FCC ID:2BW9Z-SKU0091

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	0	-15.950	≤8	PASS
BLE 1M	19	-14.680	≤8	PASS
BLE 1M	39	-14.090	≤8	PASS

Test Graphs

