

Appendix A:Test Results of Bluetooth BLE(ANT2)

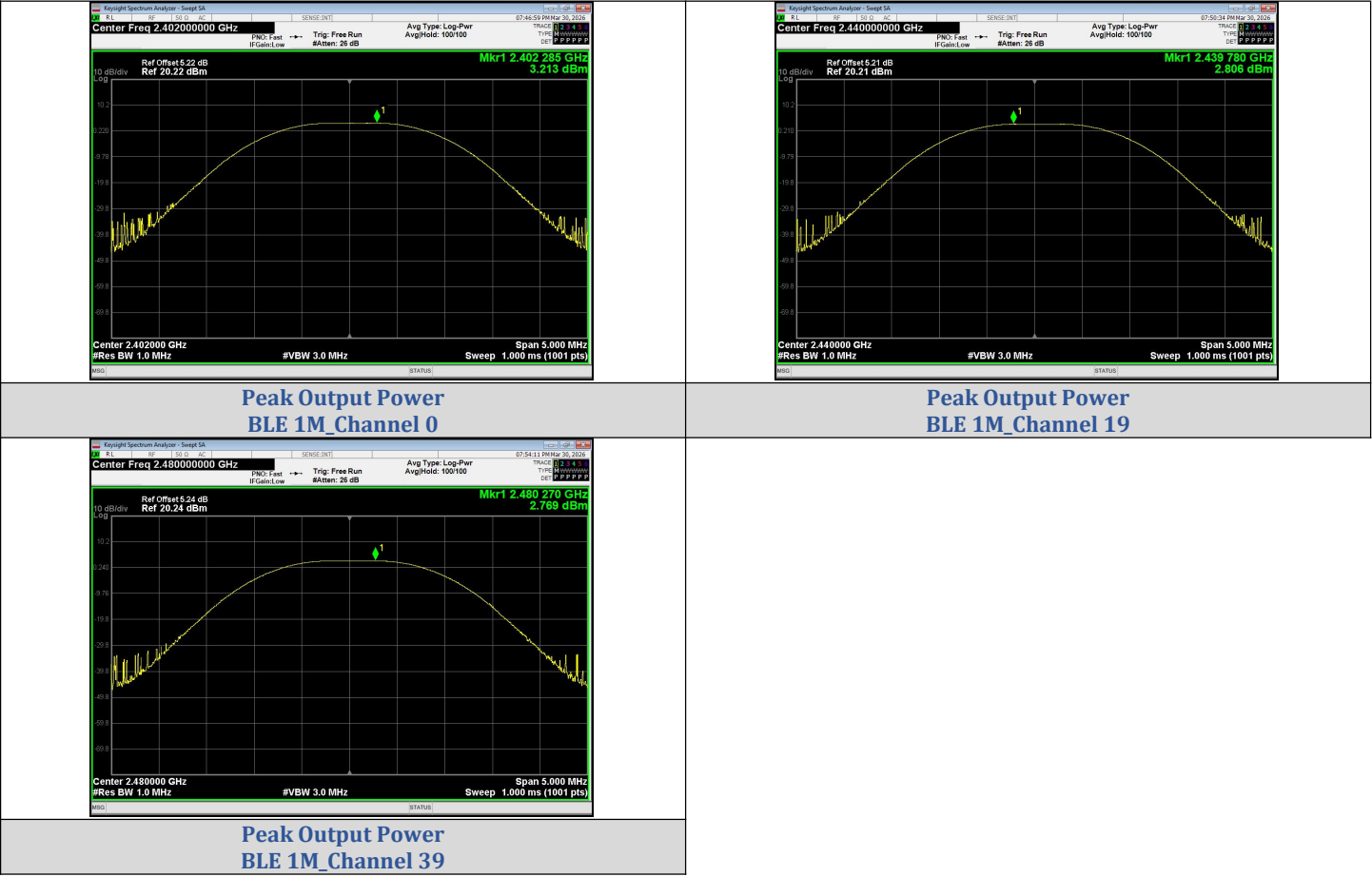
Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	3.21	2.1	None	≤30	PASS
	19	2.81	1.91	None	≤30	PASS
	39	2.77	1.89	None	≤30	PASS

Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
BLE 1M	0	3.21	≤30	3.213	≤36.02	None	PASS
	19	2.81	≤30	2.806	≤36.02	None	PASS
	39	2.77	≤30	2.769	≤36.02	None	PASS

Test Graphs

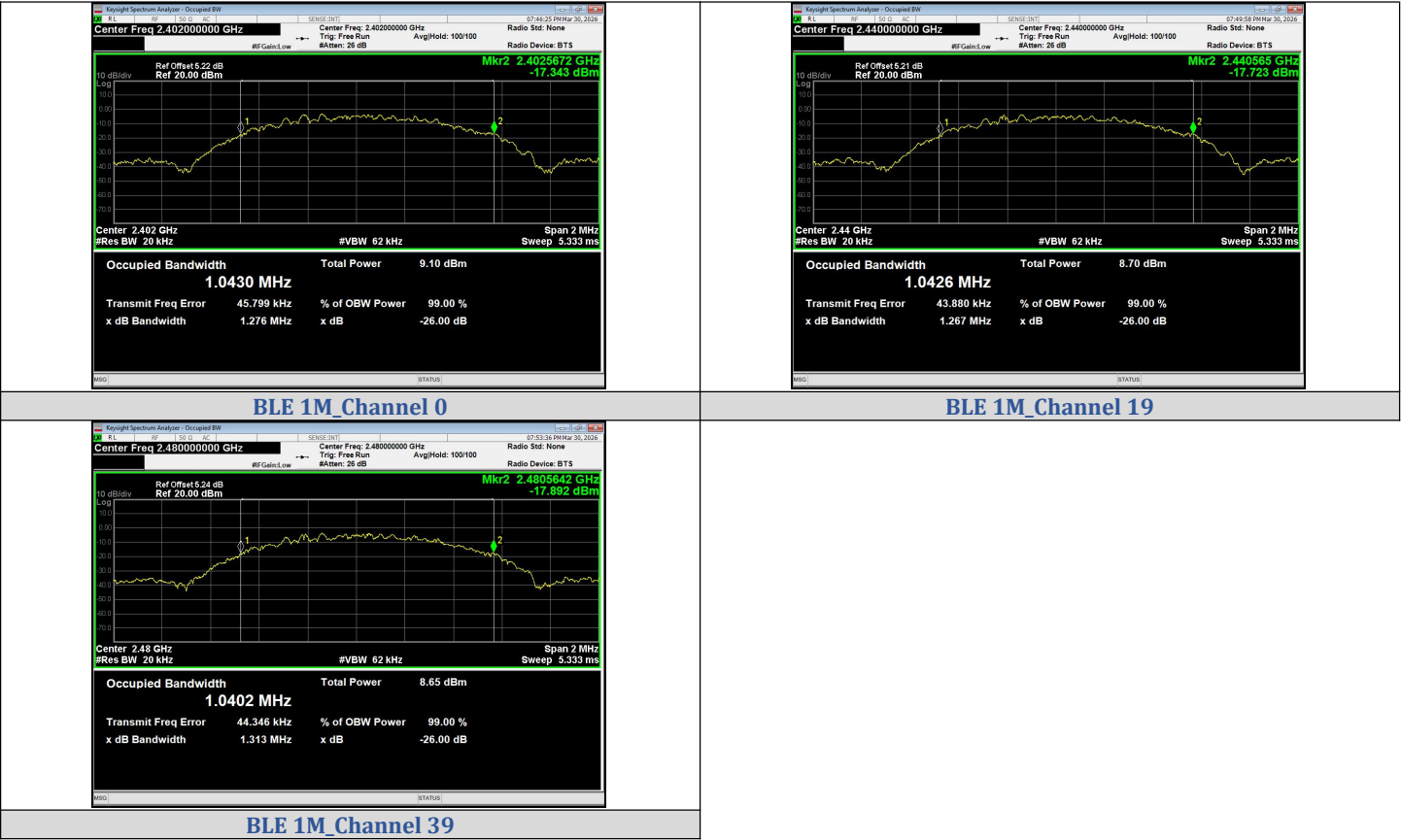


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0430
BLE 1M	19	2440	1.0426
BLE 1M	39	2480	1.0402

Test Graphs

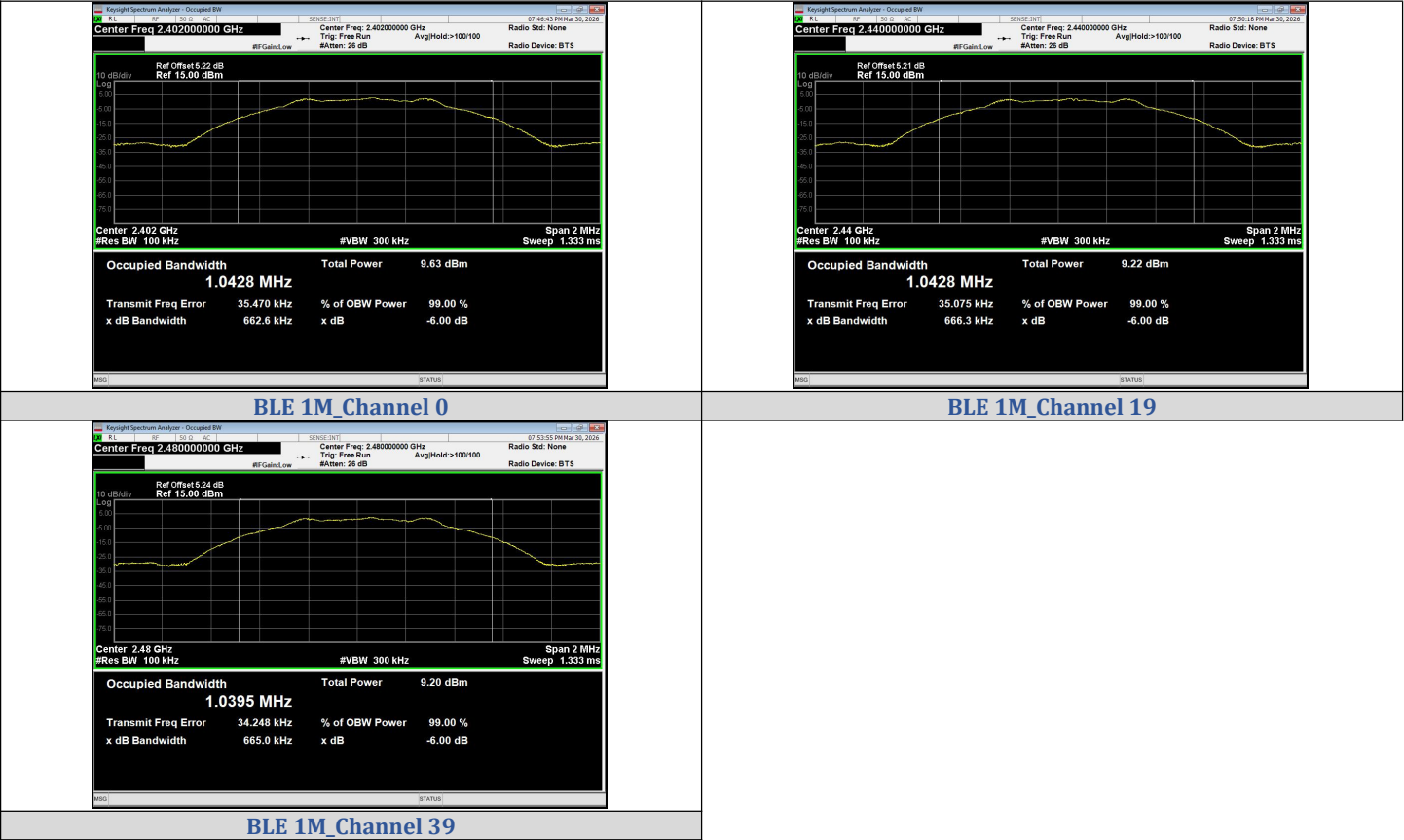


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6626	≥0.5	PASS
	19	2440	0.6663		PASS
	39	2480	0.6650		PASS

Test Graphs



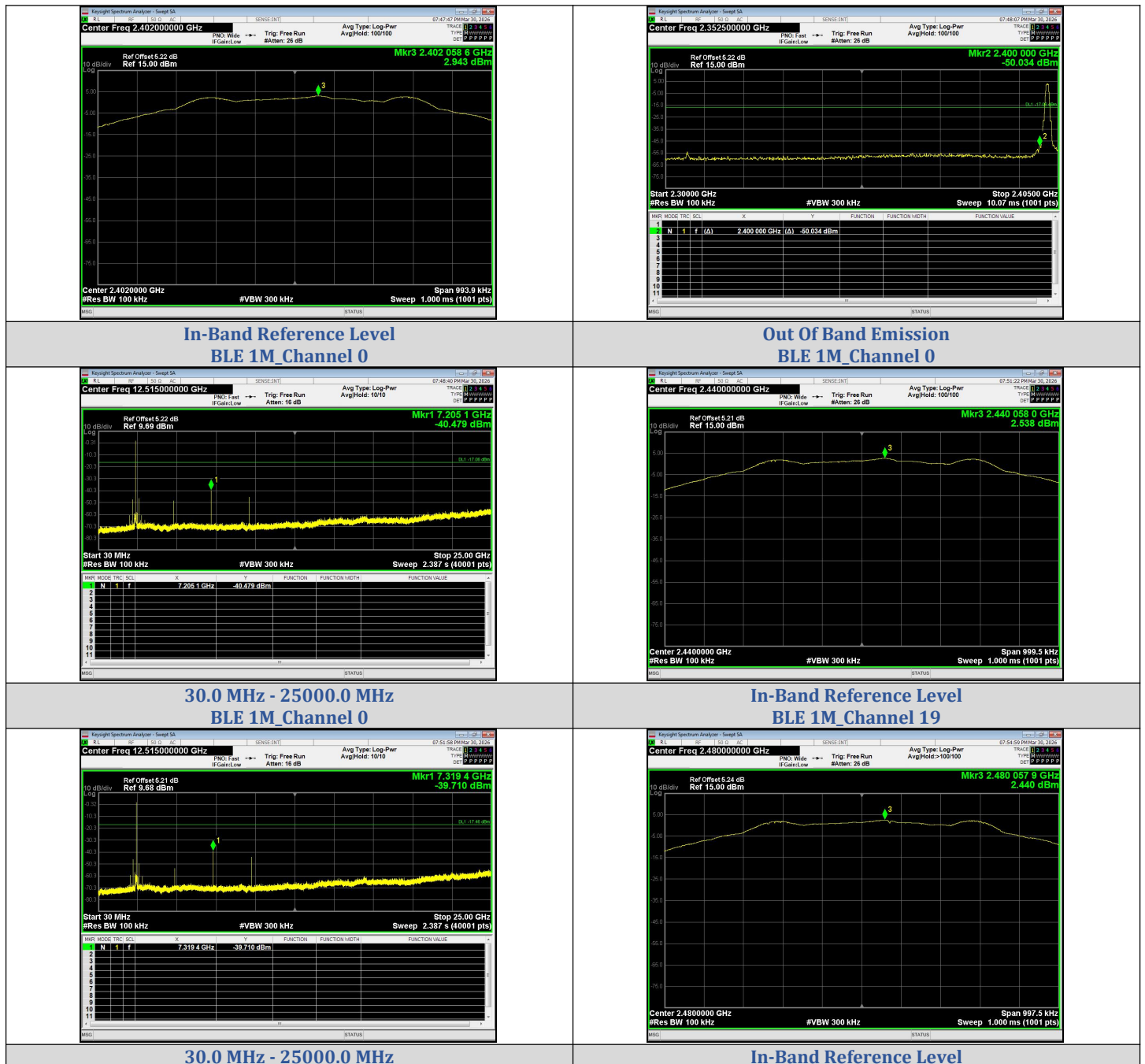
Conducted Spurious & Band Edge Emission

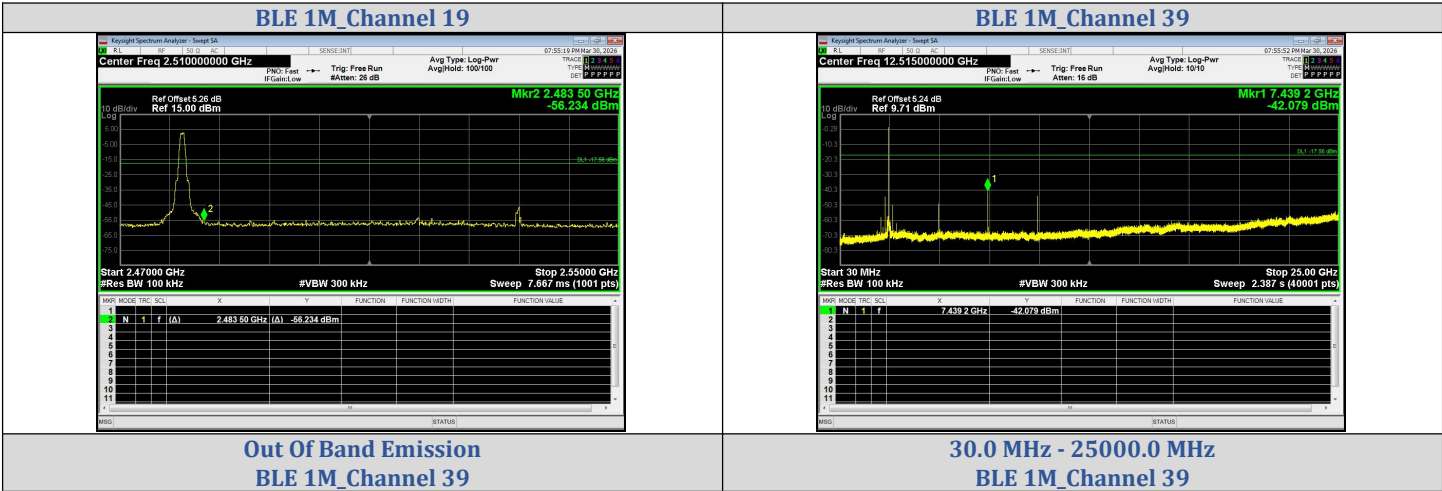
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-50.034	-17.06	-32.974	PASS
		7205.13	-40.479	-17.06	-23.419	PASS
	19	7319.37	-39.710	-17.46	-22.250	PASS
	39	2483.50	-56.234	-17.56	-38.674	PASS
		7439.22	-42.079	-17.56	-24.519	PASS

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

Test Graphs





Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-12.330	≤8	PASS
BLE 1M	19	-12.860	≤8	PASS
BLE 1M	39	-12.920	≤8	PASS

Test Graphs

