

Appendix A

Report No.:	CISRR240612093
FCC ID:	2BG6E-AK-28
Product Name:	Finder Tag
Model No.:	AK-28
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

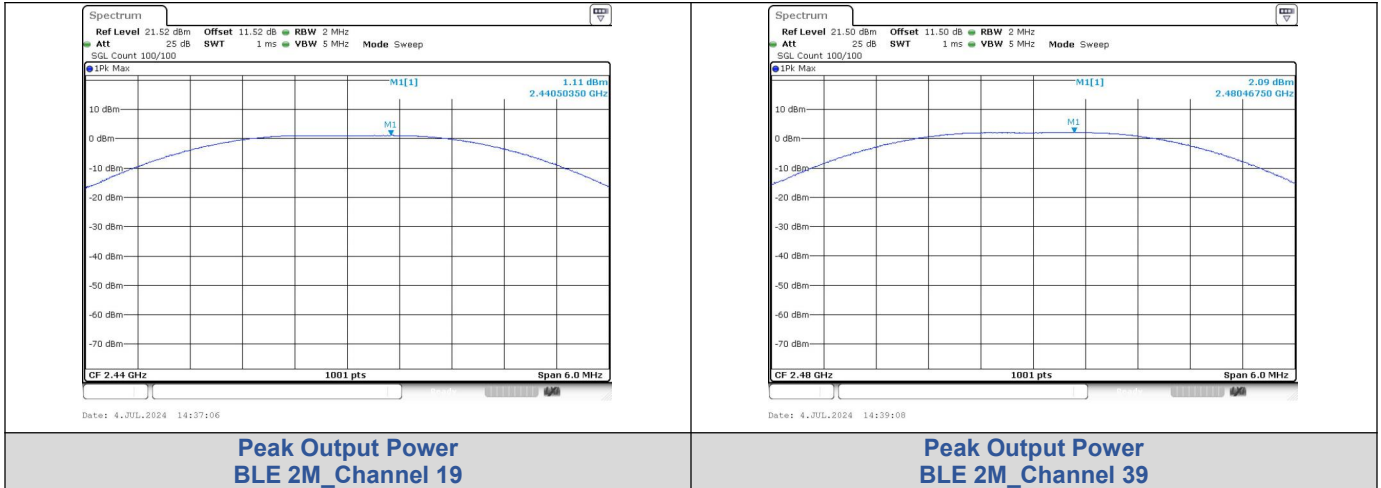
Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.36	1.09	≤30	PASS
	19	1.08	1.28	≤30	PASS
	39	2.04	1.60	≤30	PASS
BLE 2M	0	0.37	1.09	≤30	PASS
	19	1.11	1.29	≤30	PASS
	39	2.09	1.62	≤30	PASS

Test Graphs



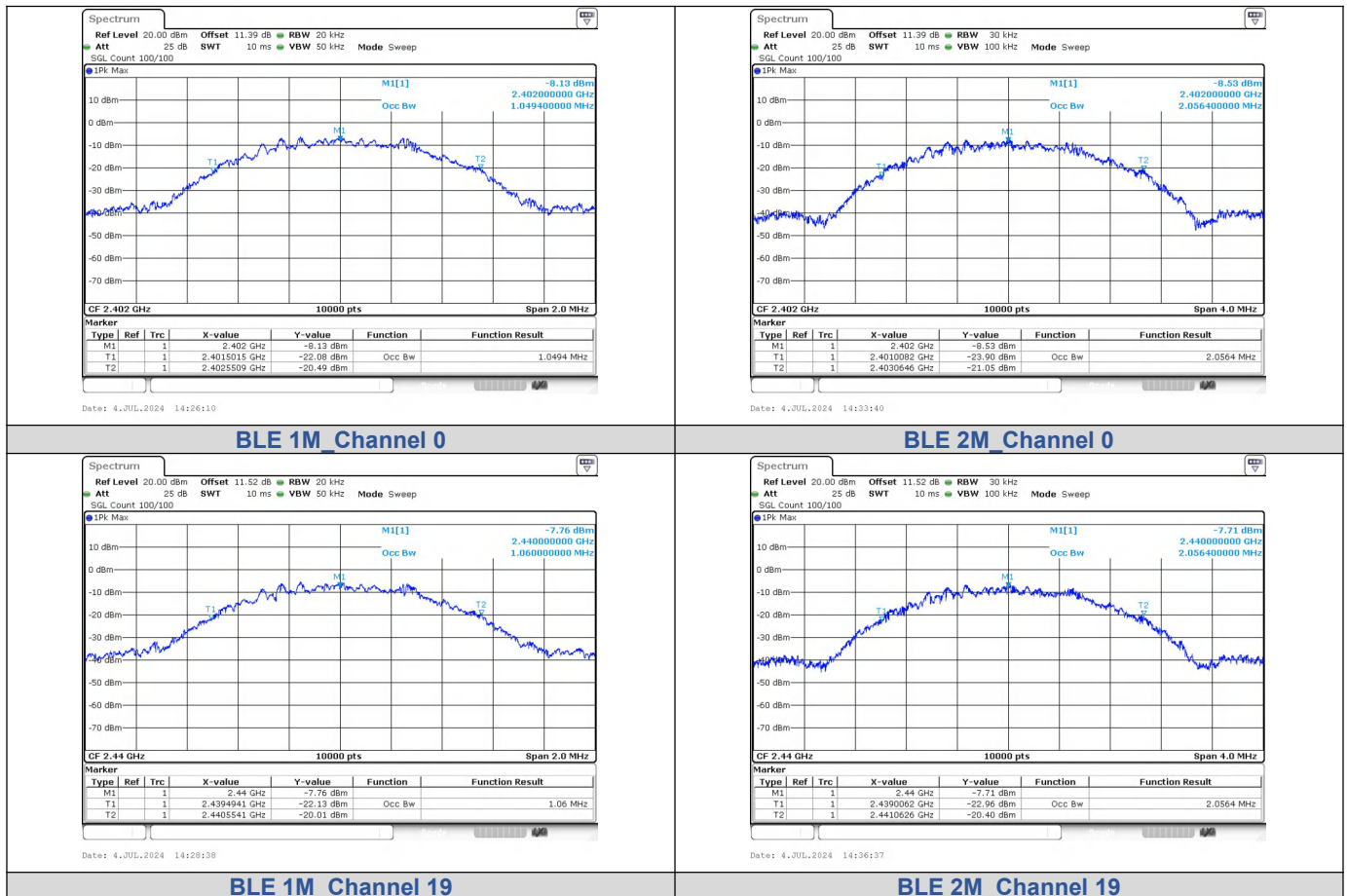


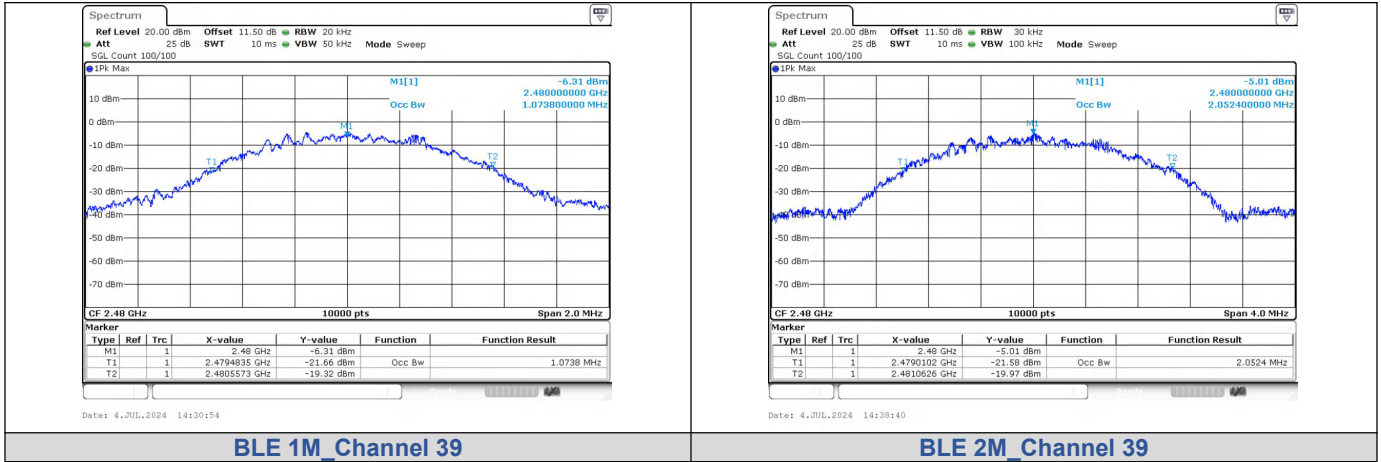
99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0490
BLE 1M	19	2440	1.0600
BLE 1M	39	2480	1.0740
BLE 2M	0	2402	2.0560
BLE 2M	19	2440	2.0560
BLE 2M	39	2480	2.0520

Test Graphs



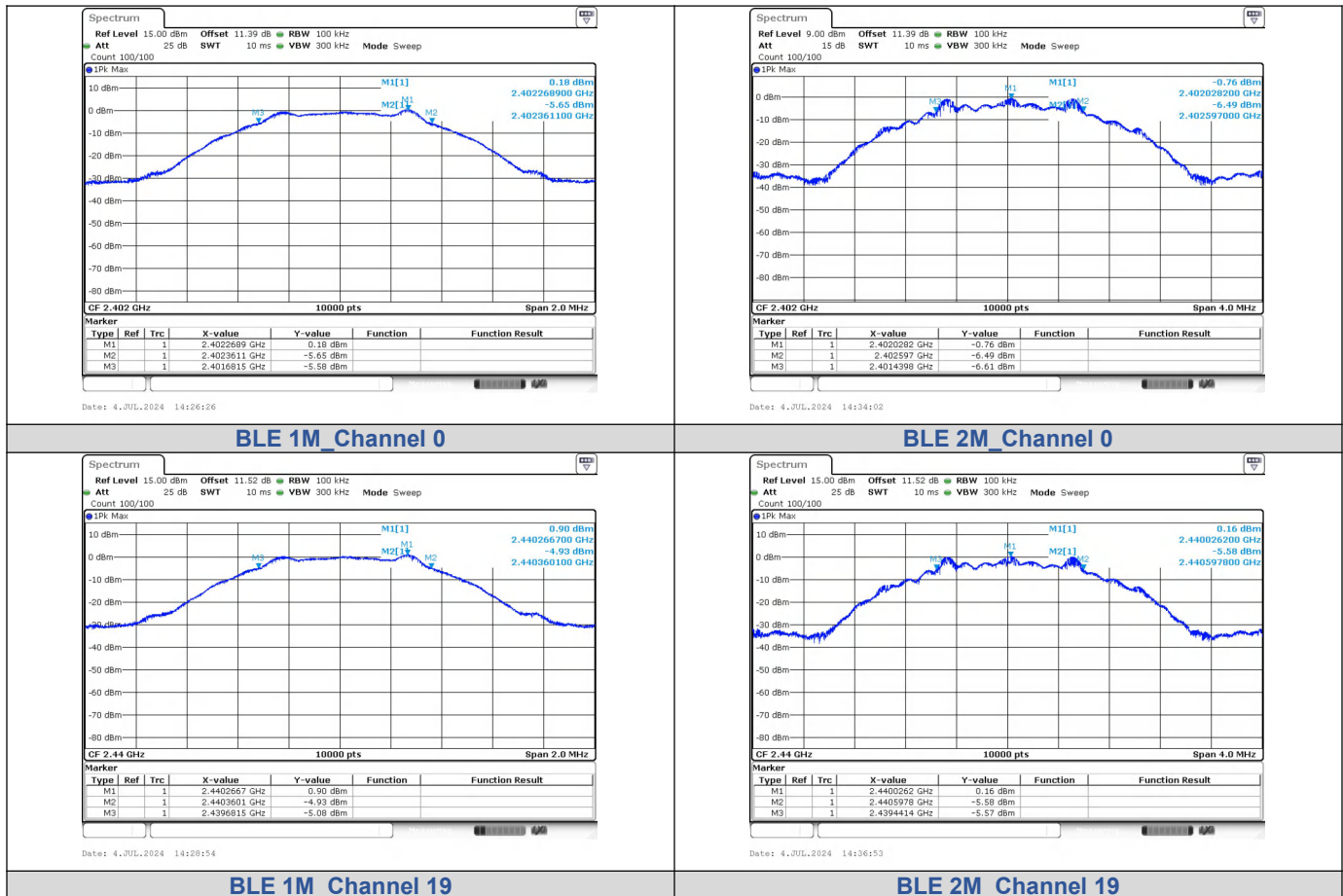


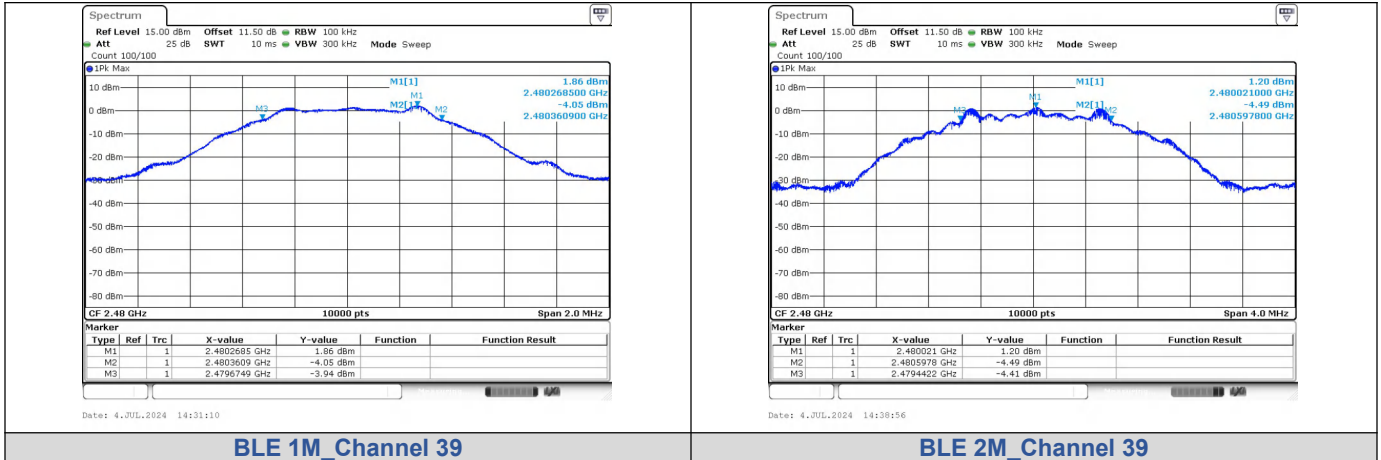
6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6800	≥0.5	PASS
	19	2440	0.6800		PASS
	39	2480	0.6900		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

Test Graphs



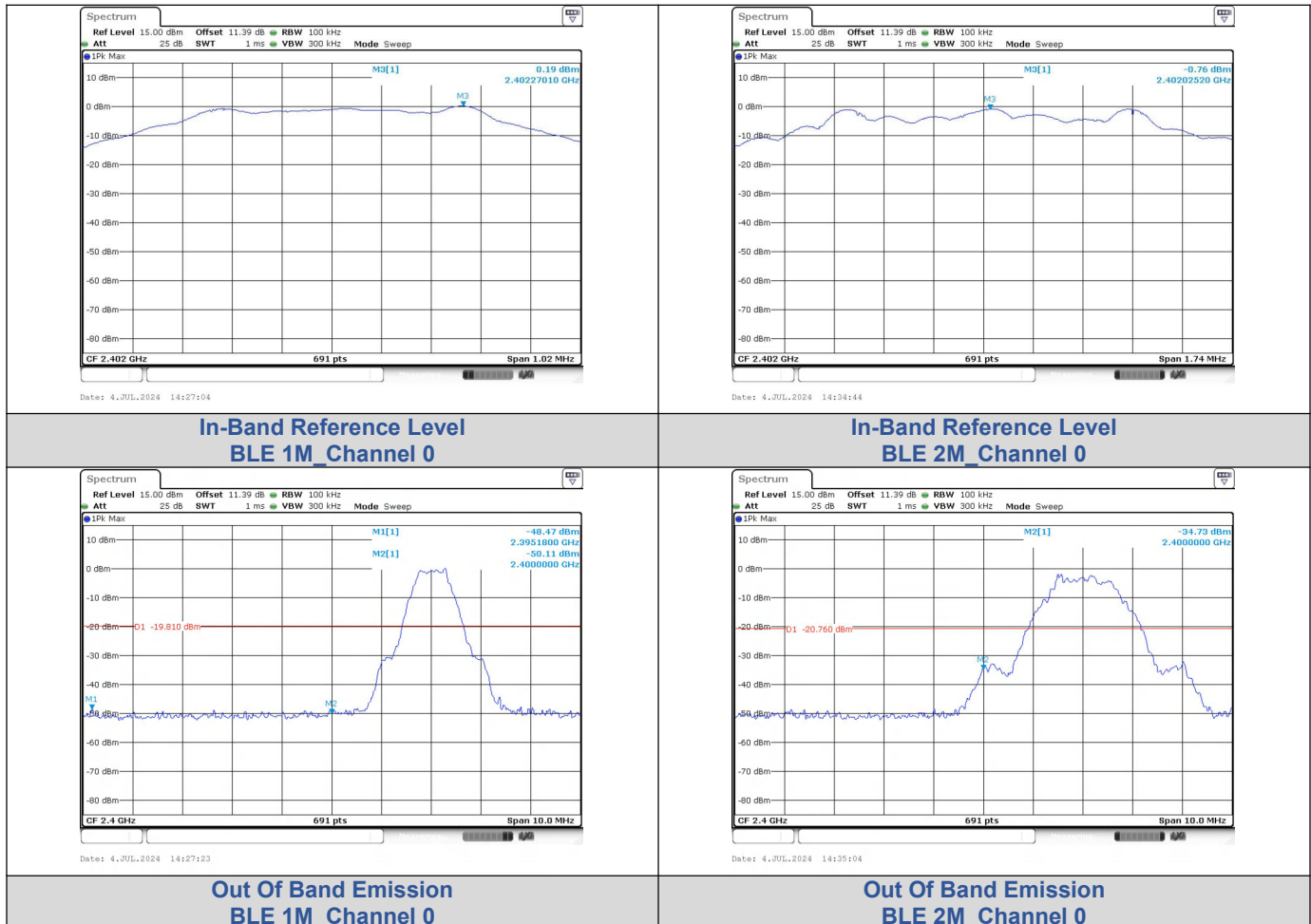


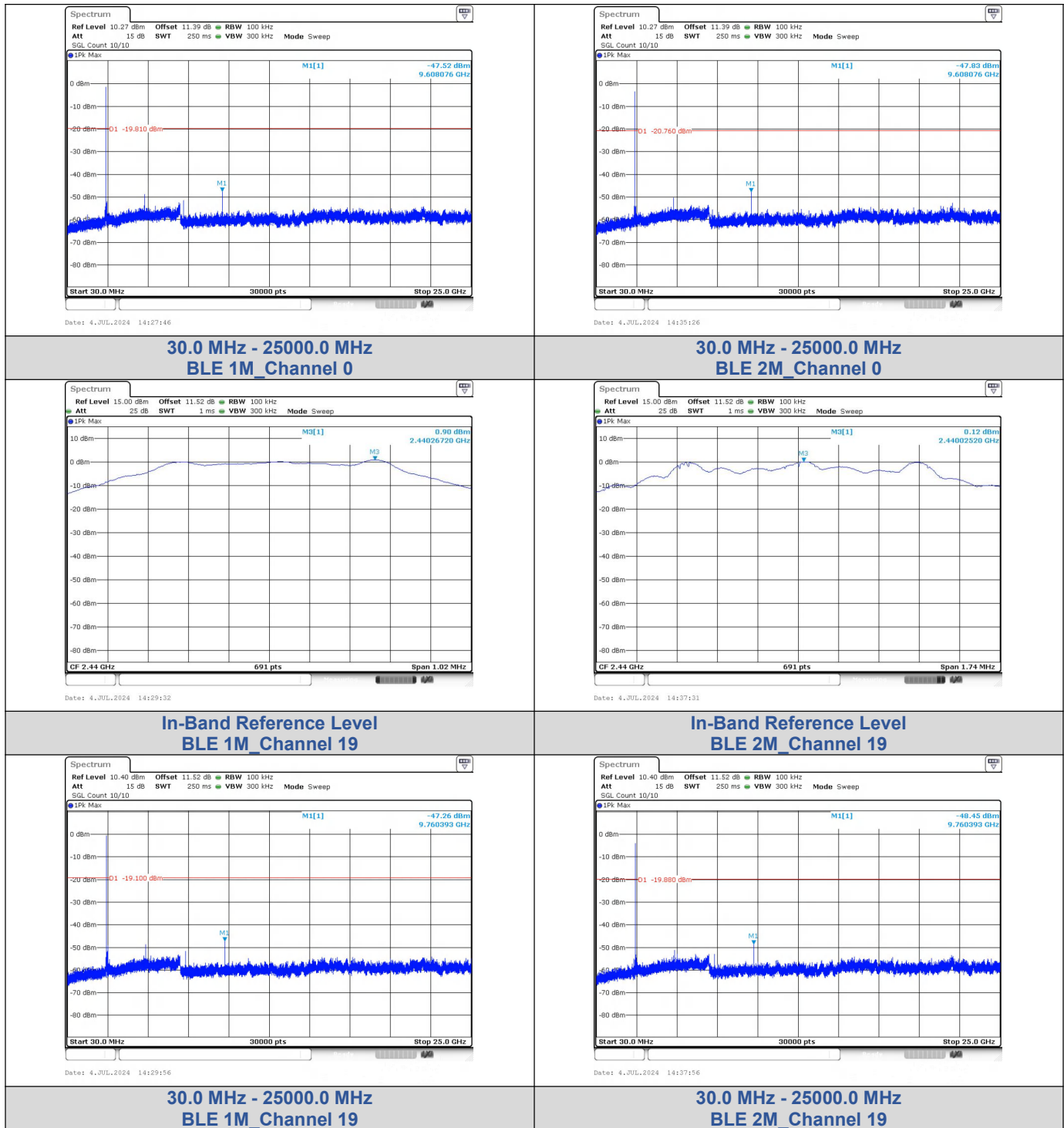
Conducted Out Of Band Emission

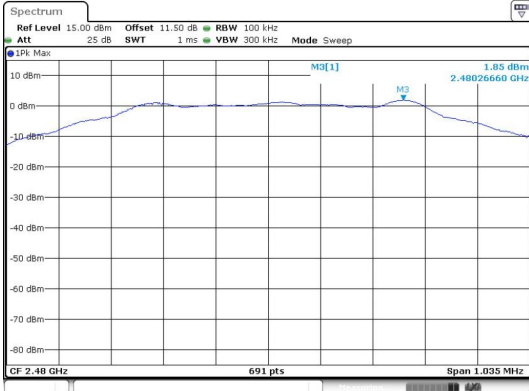
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2395.18	-48.468	-19.81	-28.658	PASS
		2400.00	-50.179	-19.81	-30.369	PASS
		9608.10	-47.521	-19.81	-27.711	PASS
	19	9760.39	-47.261	-19.1	-28.161	PASS
	39	2483.50	-50.679	-18.15	-32.529	PASS
		4960.33	-44.476	-18.15	-26.326	PASS
BLE 2M	0	2400.00	-34.733	-20.76	-13.973	PASS
		9608.08	-47.827	-20.76	-27.067	PASS
	19	9760.39	-48.454	-19.88	-28.574	PASS
	39	2483.50	-50.286	-18.8	-31.486	PASS
		4959.49	-47.306	-18.8	-28.506	PASS

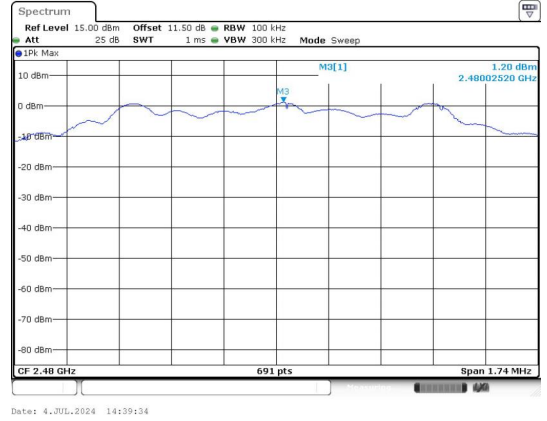
Test Graphs



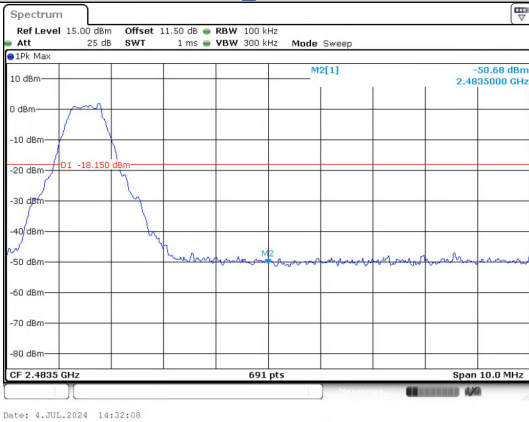




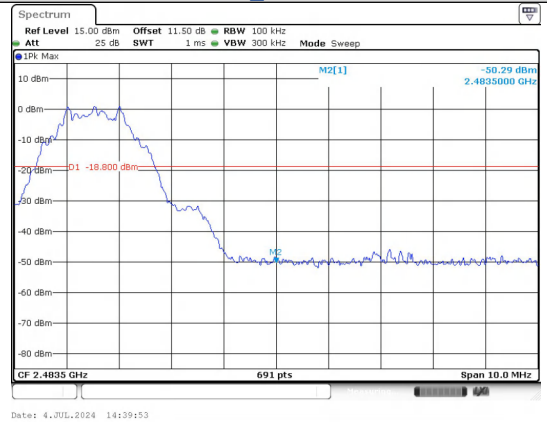
**In-Band Reference Level
BLE 1M_Channel 39**



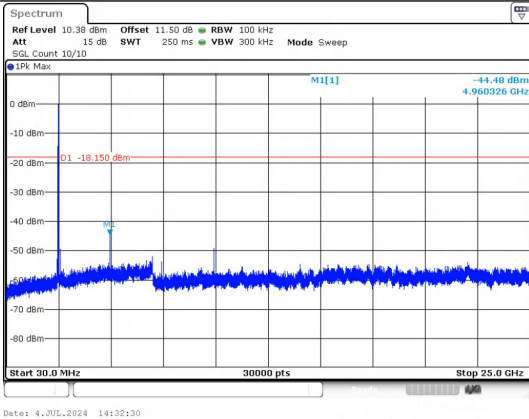
**In-Band Reference Level
BLE 2M_Channel 39**



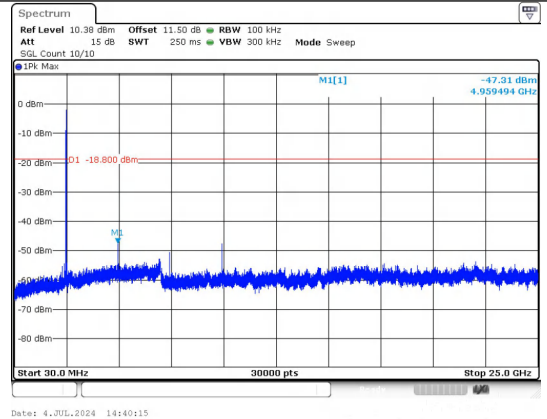
**Out Of Band Emission
BLE 1M_Channel 39**



**Out Of Band Emission
BLE 2M_Channel 39**



**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39**



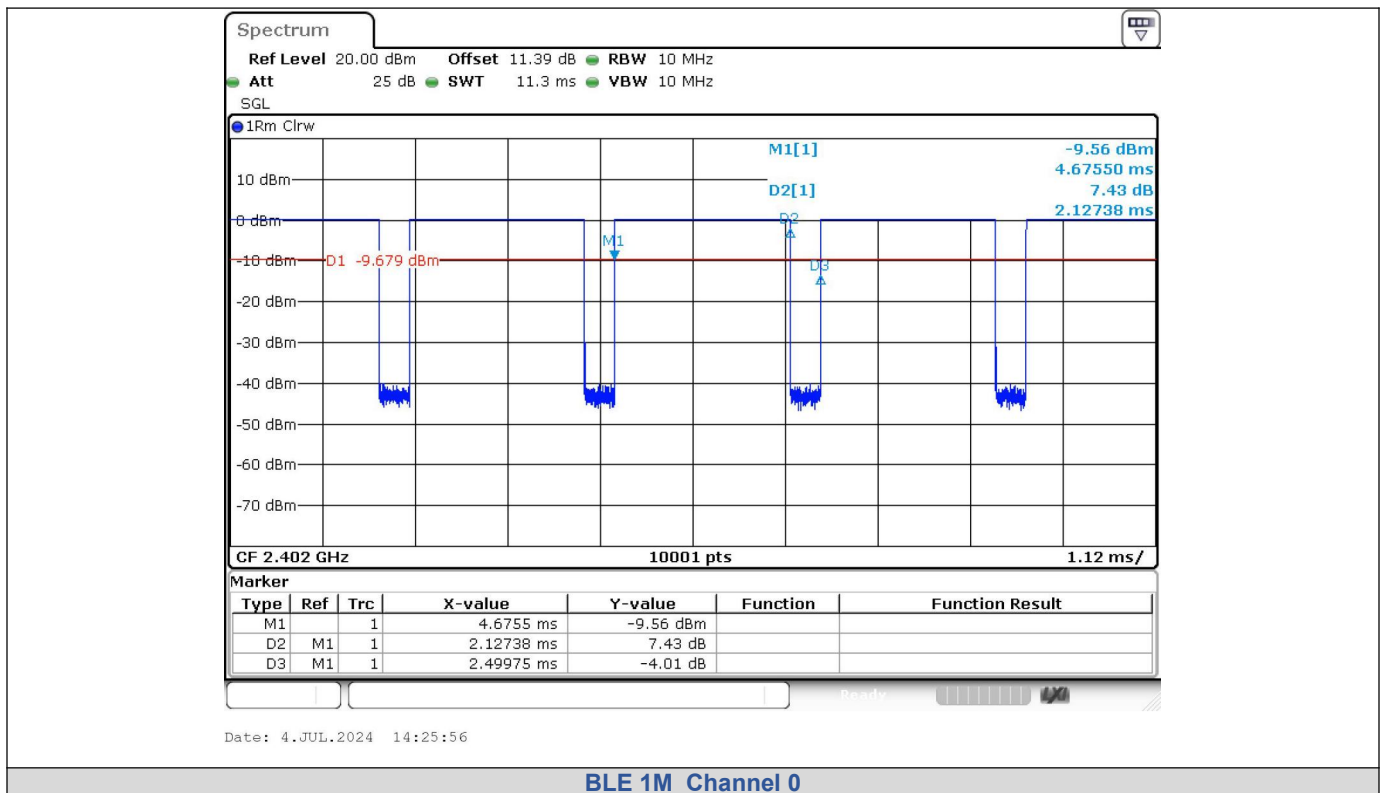
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39**

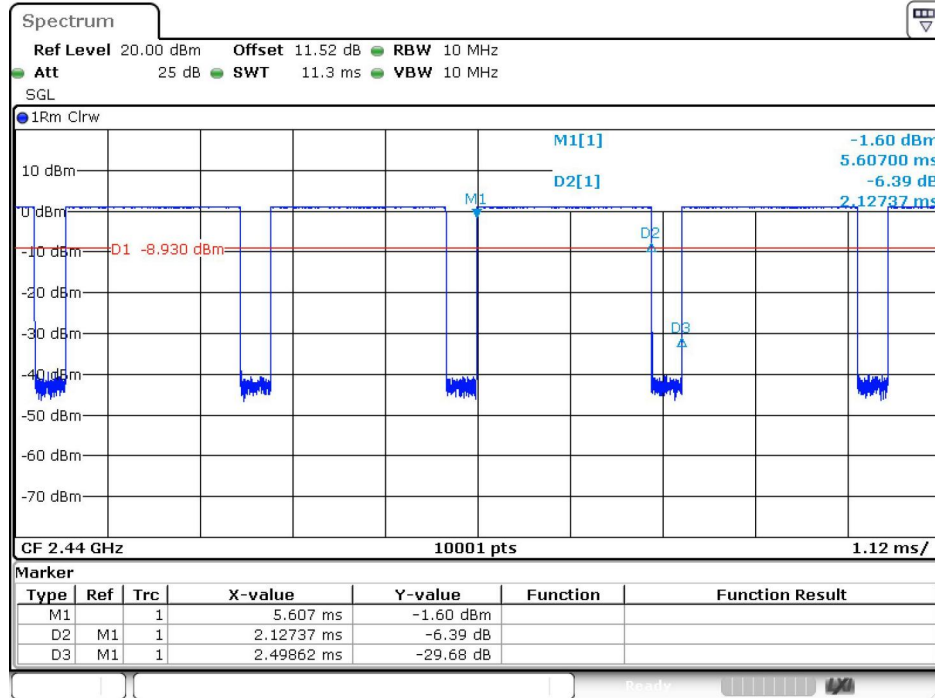
Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.127	2.500	85.10	0.8510	0.7007	0.47
	19	2.127	2.499	85.14	0.8514	0.6987	0.47
	39	2.126	2.499	85.10	0.8510	0.7007	0.47
BLE 2M	0	1.074	2.499	43.00	0.4300	3.6653	0.93
	19	1.075	2.500	43.02	0.4302	3.6633	0.93
	39	1.075	2.499	43.04	0.4304	3.6613	0.93

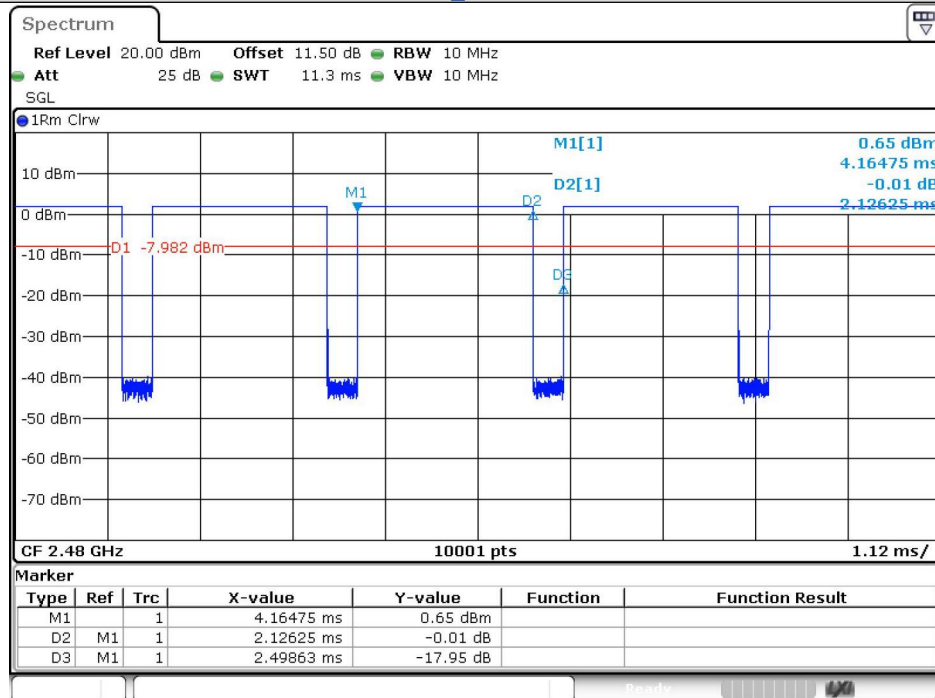
Test Graphs





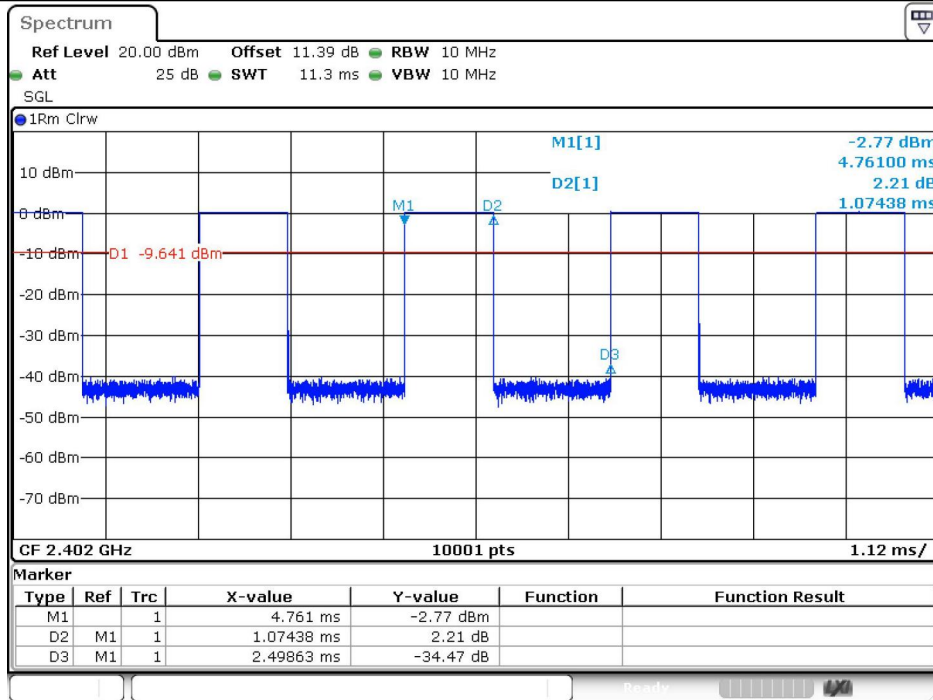
Date: 4.JUL.2024 14:28:23

BLE 1M_Channel 19



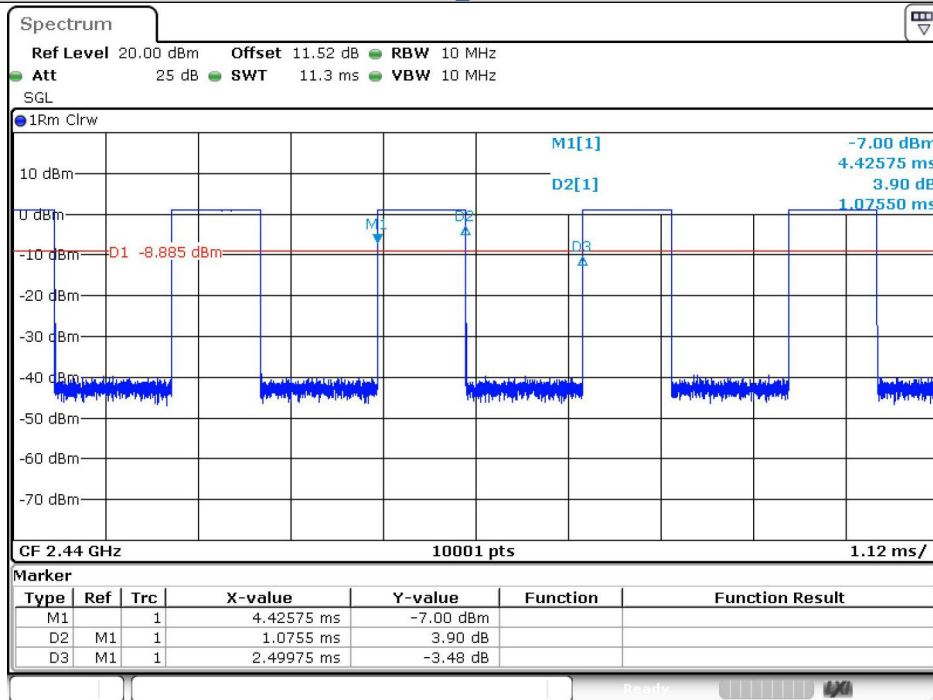
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BLE 1M_Channel 39



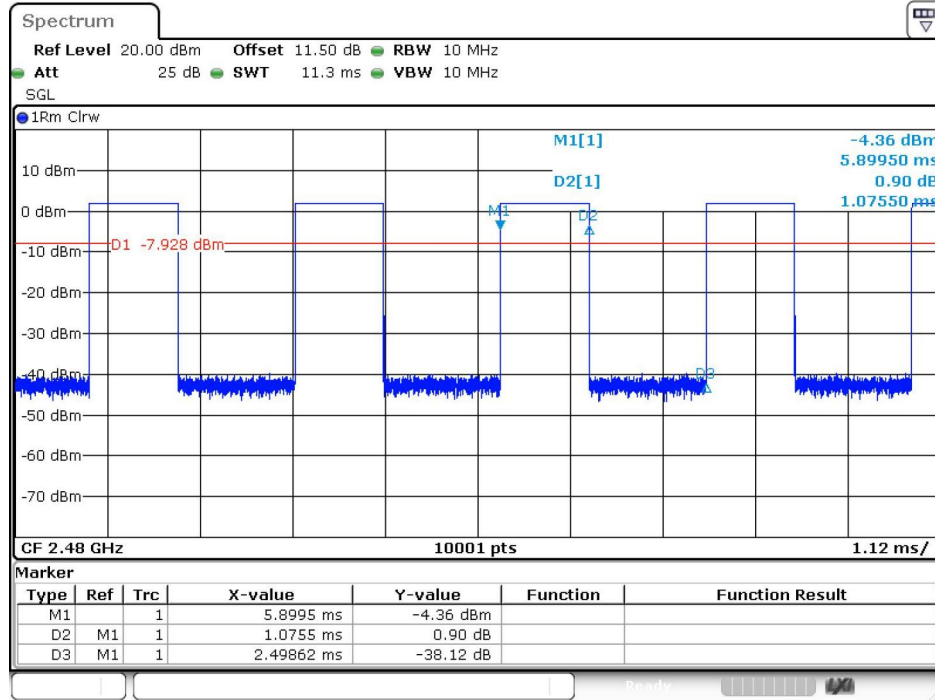
Date: 4.JUL.2024 14:33:25

BLE 2M_Channel 0



Date: 4.JUL.2024 14:36:23

BLE 2M_Channel 19



Date: 4.JUL.2024 14:38:25

BLE 2M_Channel 39

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.794	≤8	PASS
BLE 1M	19	-15.301	≤8	PASS
BLE 1M	39	-14.551	≤8	PASS
BLE 2M	0	-20.403	≤8	PASS
BLE 2M	19	-19.466	≤8	PASS
BLE 2M	39	-17.695	≤8	PASS

Test Graphs

