

Appendix A

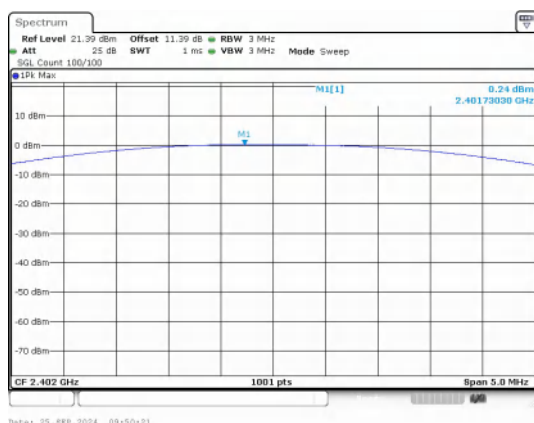
Report No.:	CISRR240921203
FCC ID:	2A5C6-Y04H
Product Name:	Smart Tracker
Model No.:	Y04H
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Output Power

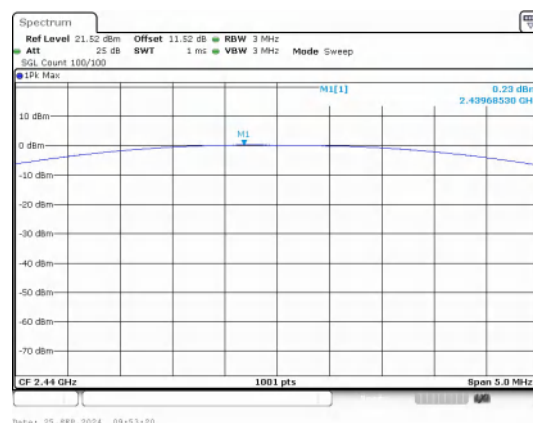
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.24	1.06	≤30	PASS
	19	0.23	1.05	≤30	PASS
	39	0.52	1.13	≤30	PASS
BLE 2M	0	0.31	1.07	≤30	PASS
	19	0.67	1.17	≤30	PASS
	39	0.89	1.23	≤30	PASS

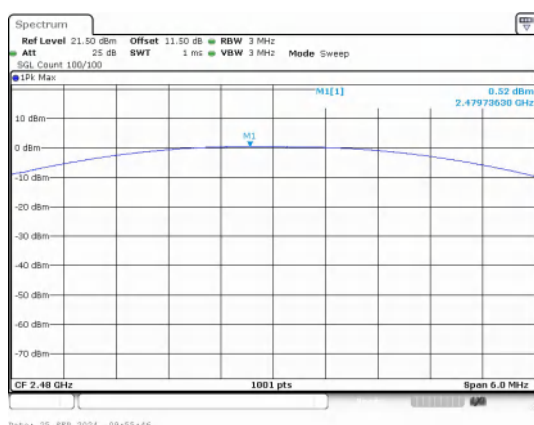
Test Graphs



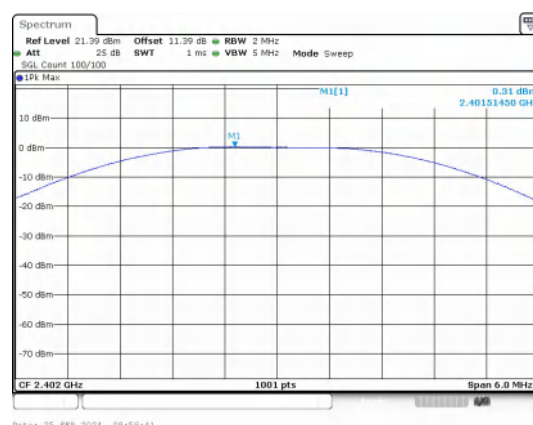
Peak Output Power
BLE 1M_Channel 0



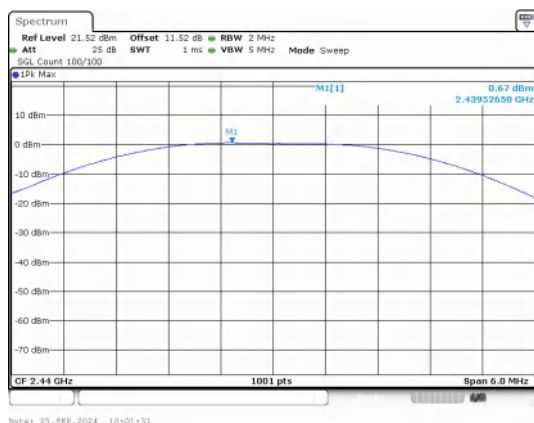
Peak Output Power
BLE 1M_Channel 19



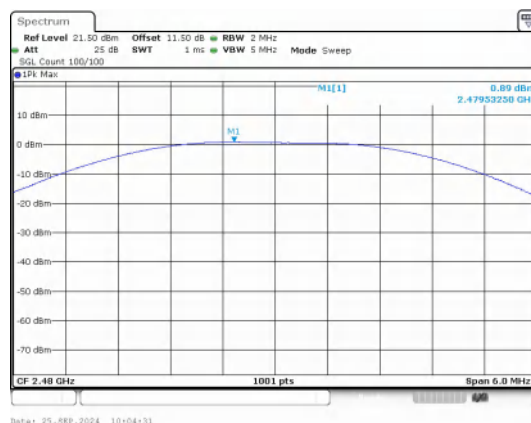
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



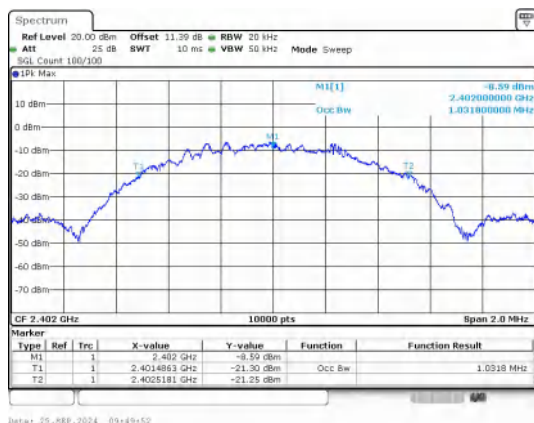
Peak Output Power
BLE 2M_Channel 39

2) 99% Bandwidth

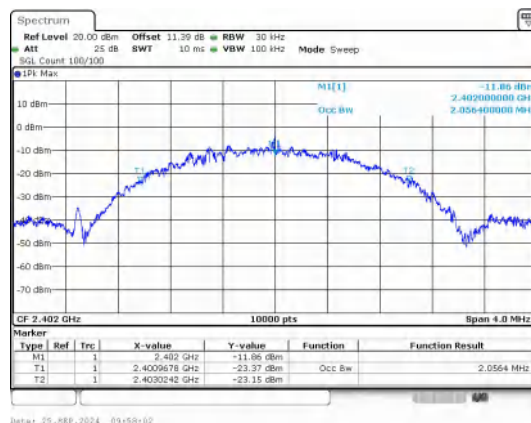
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0318
BLE 1M	19	2440	1.0334
BLE 1M	39	2480	1.0332
BLE 2M	0	2402	2.0564
BLE 2M	19	2440	2.0544
BLE 2M	39	2480	2.0648

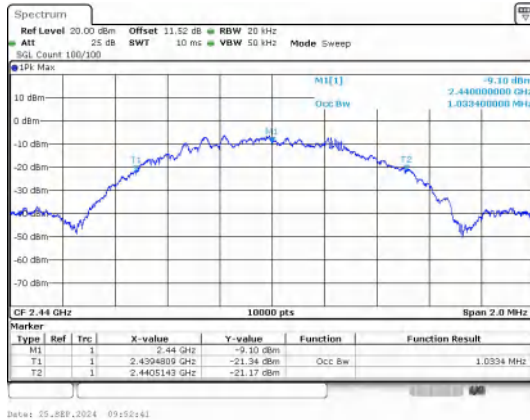
Test Graphs



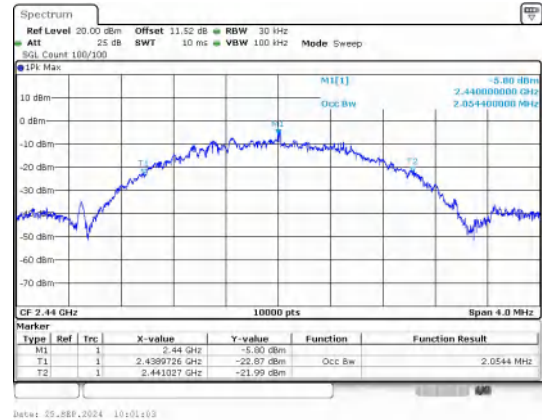
BLE 1M_Channel 0



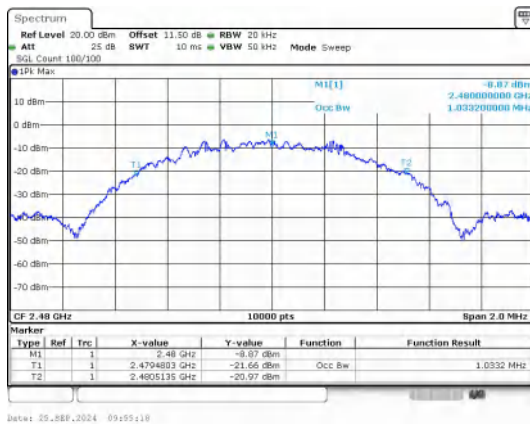
BLE 2M_Channel 0



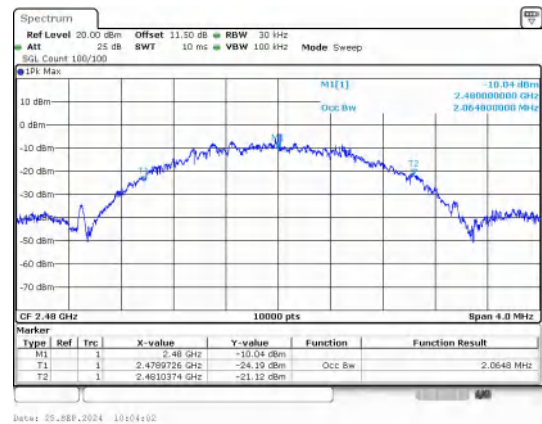
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



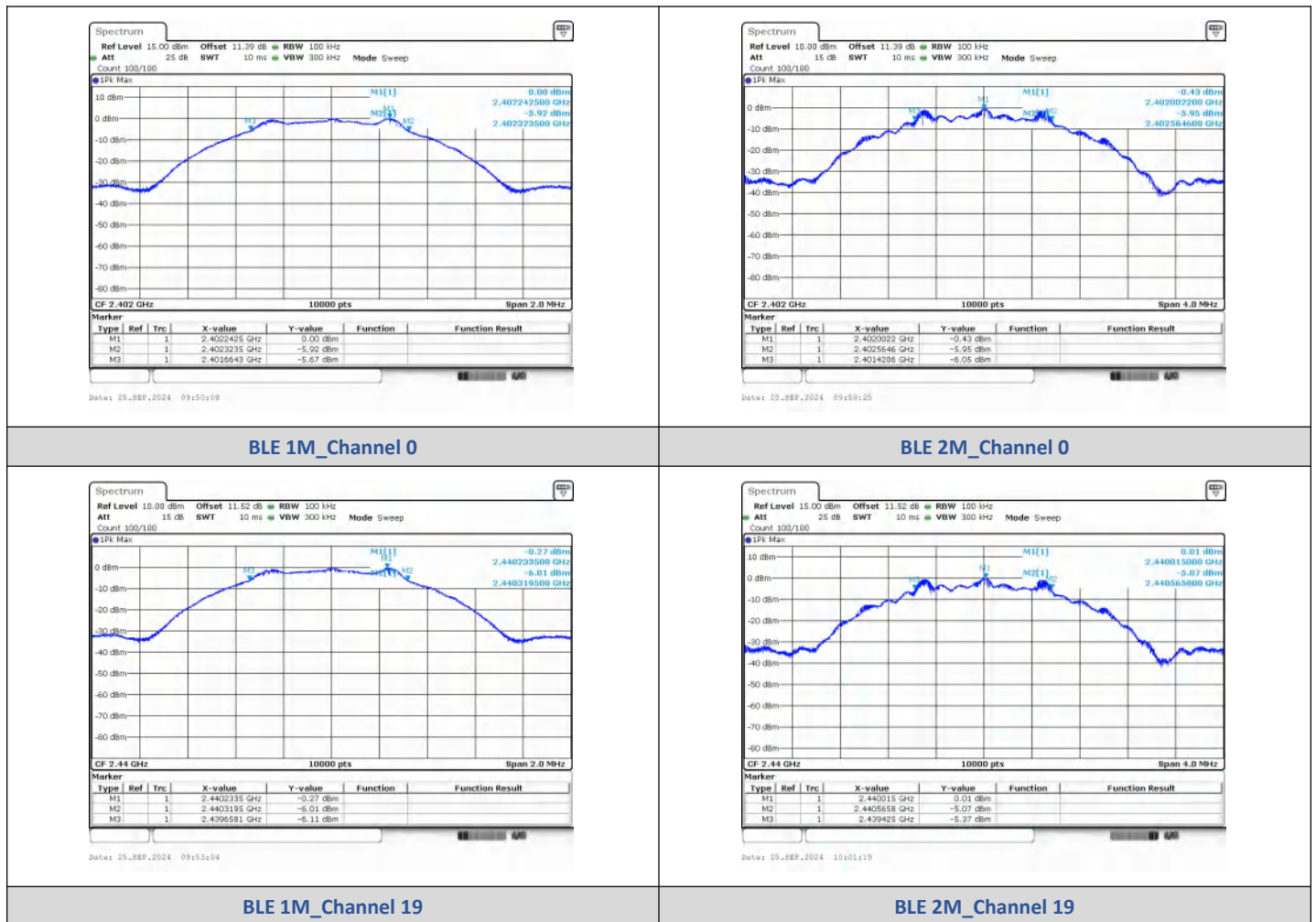
BLE 2M_Channel 39

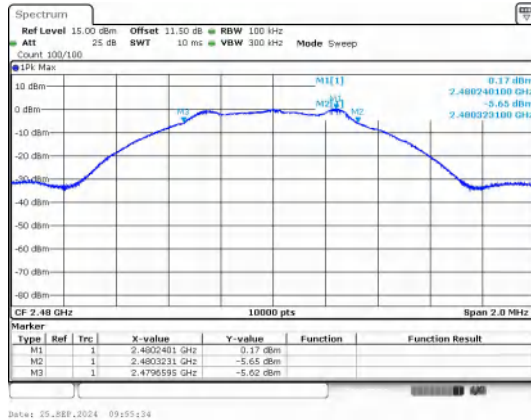
3) 6dB Bandwidth

Test Result

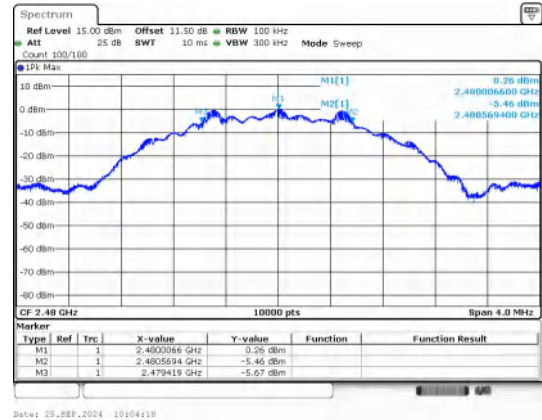
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.140		PASS
	19	2440	1.140		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



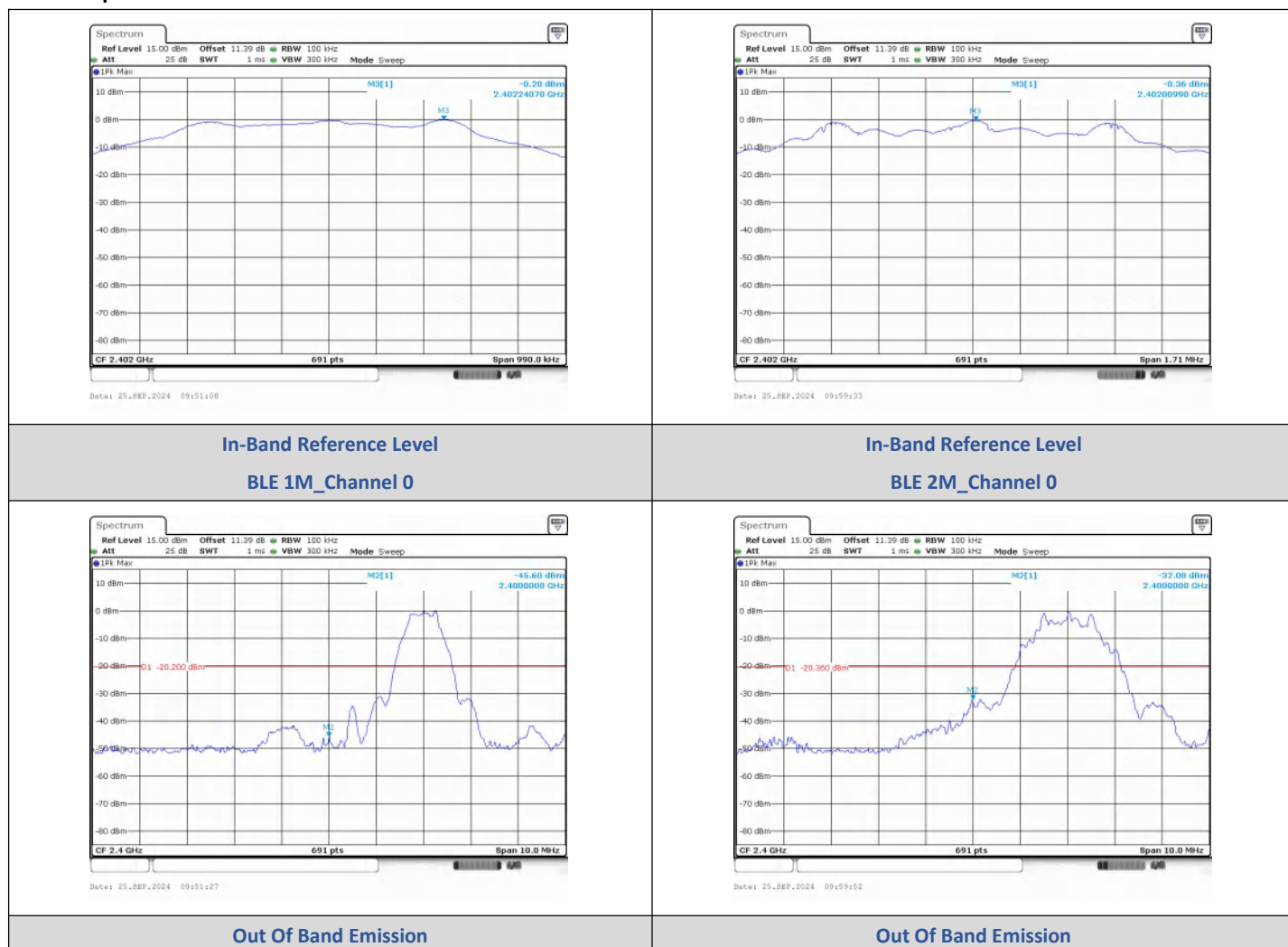
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

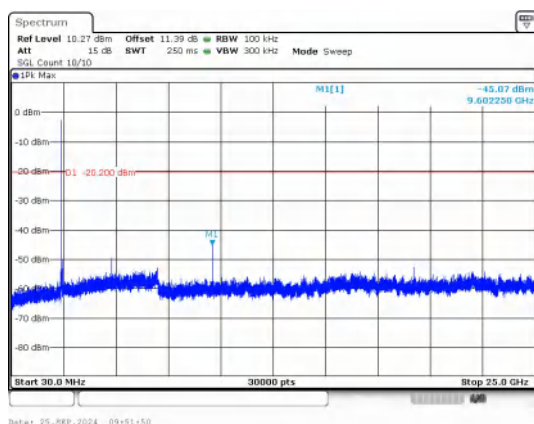
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-42.346	-20.2	-22.146	PASS
		2400.00	-45.596	-20.2	-25.396	PASS
		9602.20	-45.066	-20.2	-24.866	PASS
	19	9753.73	-41.296	-20.16	-21.136	PASS
		2483.50	-44.777	-19.89	-24.887	PASS
		9914.37	-42.116	-19.89	-22.226	PASS
BLE 2M	0	2400.00	-32.080	-20.36	-11.720	PASS
		9602.25	-45.998	-20.36	-25.638	PASS
	19	9753.73	-41.751	-19.98	-21.771	PASS
		2483.50	-48.506	-19.69	-28.816	PASS
	39	9914.37	-42.511	-19.69	-22.821	PASS

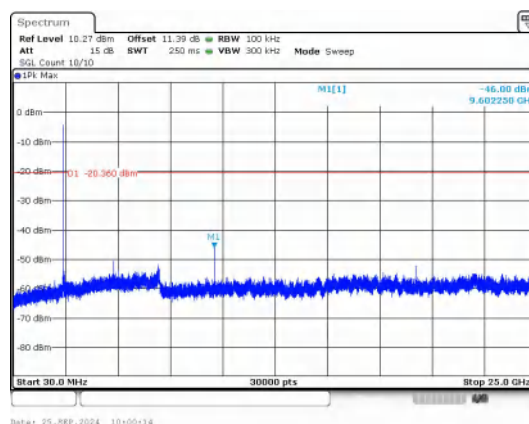
Test Graphs



BLE 1M_Channel 0

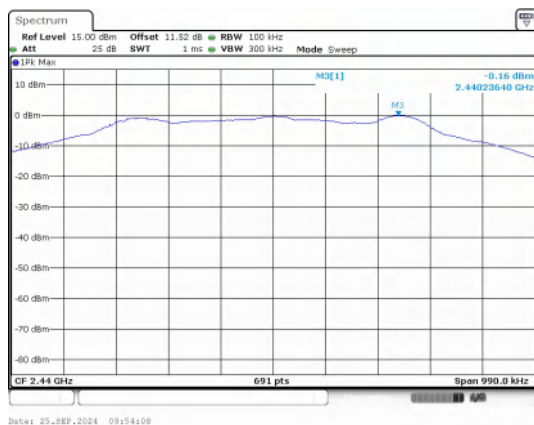


BLE 2M_Channel 0



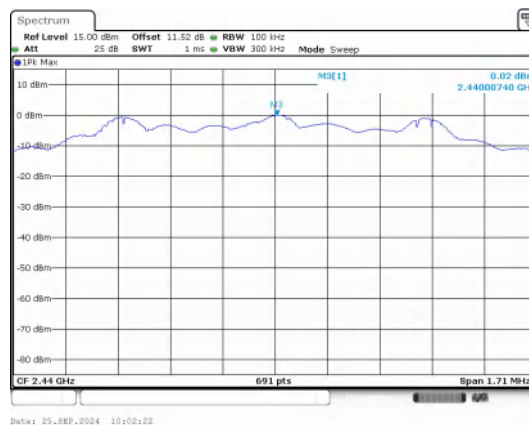
30.0 MHz - 25000.0 MHz

BLE 1M Channel 0

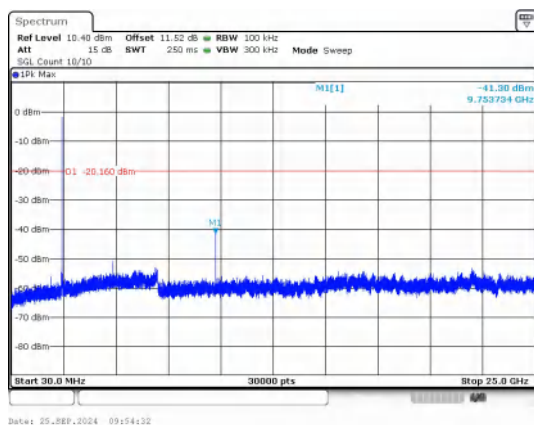


30.0 MHz - 25000.0 MHz

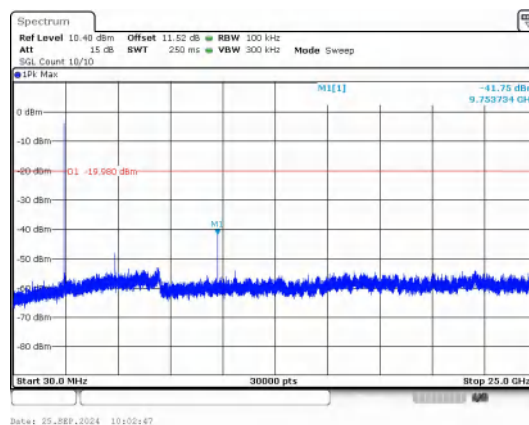
BLE 2M Channel 0



In-Band Reference Level
BLE 1M Channel 19



In-Band Reference Level
BLE 2M Channel 19

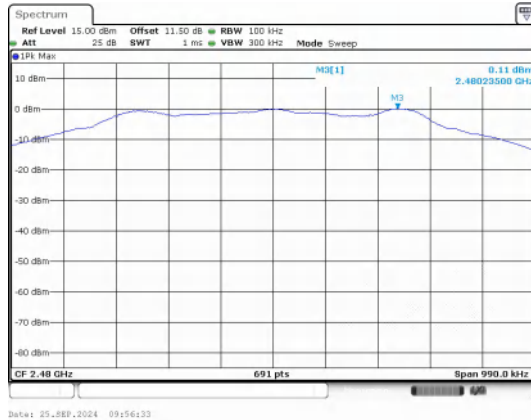


30.0 MHz - 25000.0 MHz

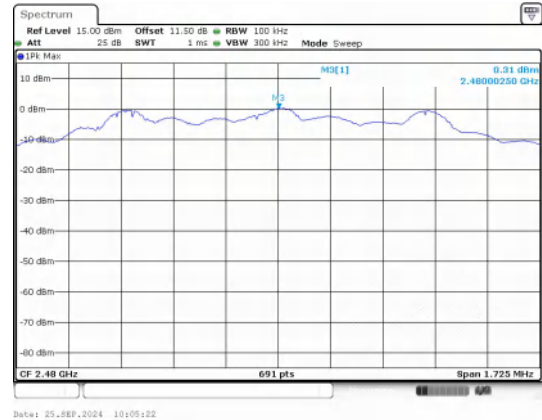
BLE 1M Channel 19

30.0 MHz - 25000.0 MHz

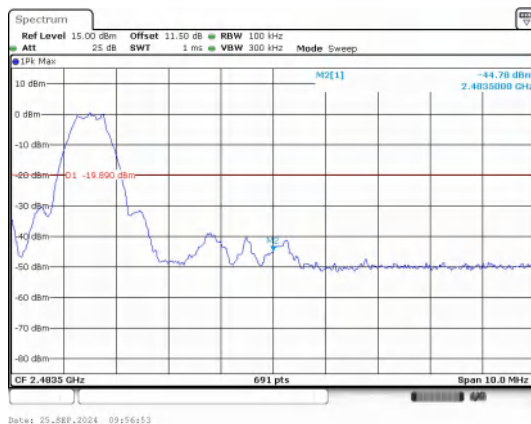
BLE 2M Channel 19



In-Band Reference Level
BLE 1M_Channel 39



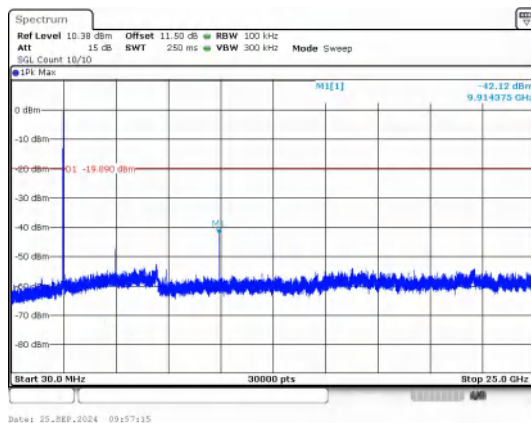
In-Band Reference Level
BLE 2M_Channel 39



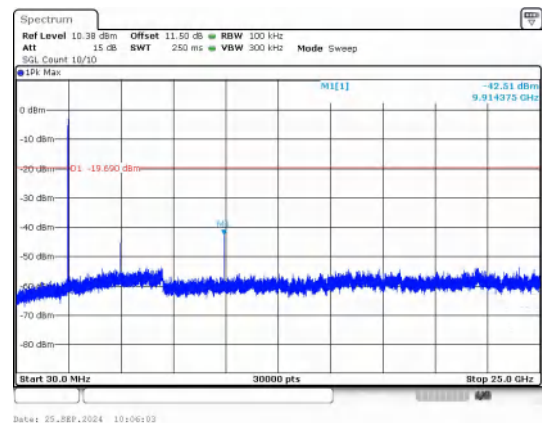
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



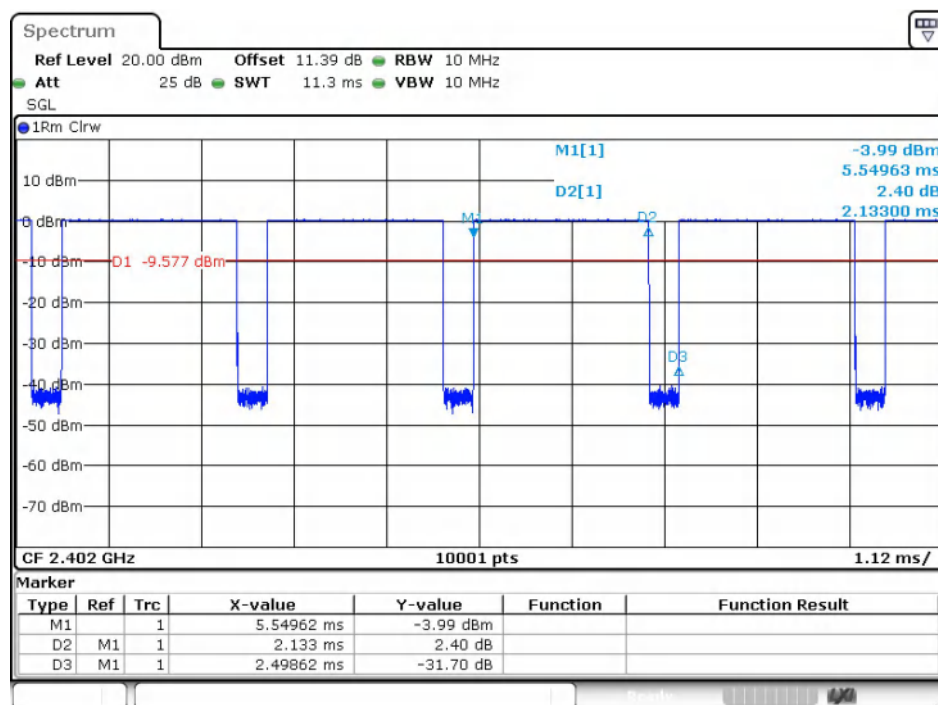
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

5) Duty Cycle

Test Result

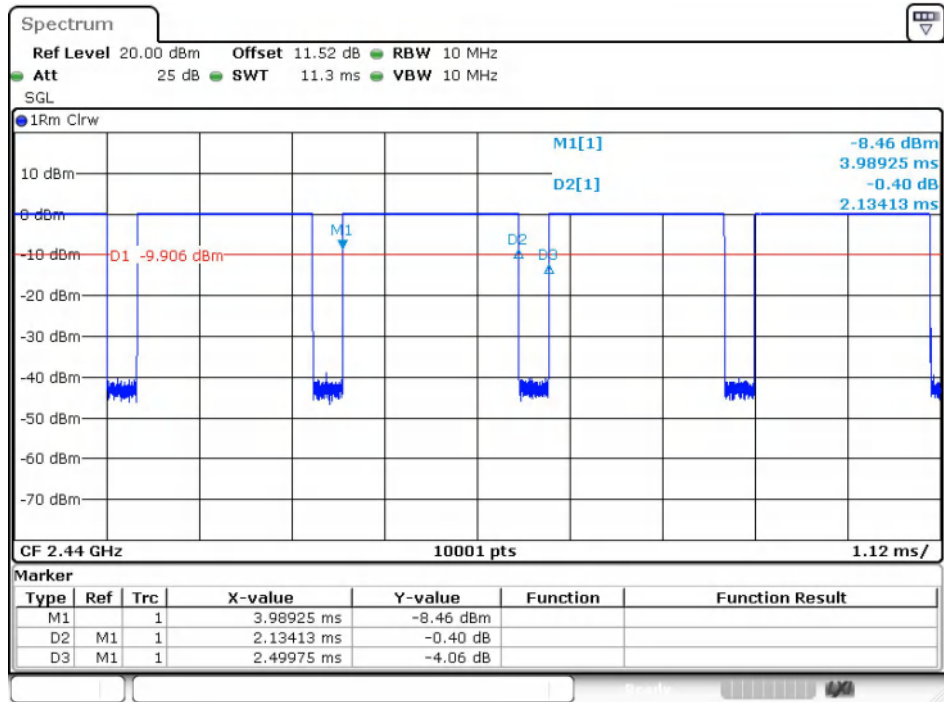
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.134	2.500	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.93
	19	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

Test Graphs



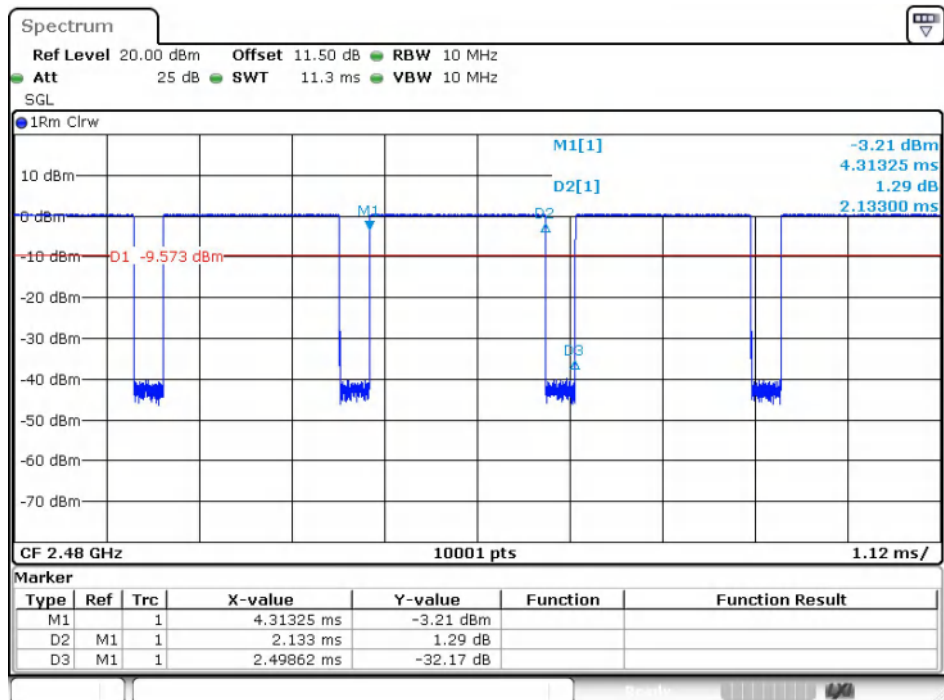
Date: 25.SEP.2024 09:49:38

BLE 1M_Channel 0



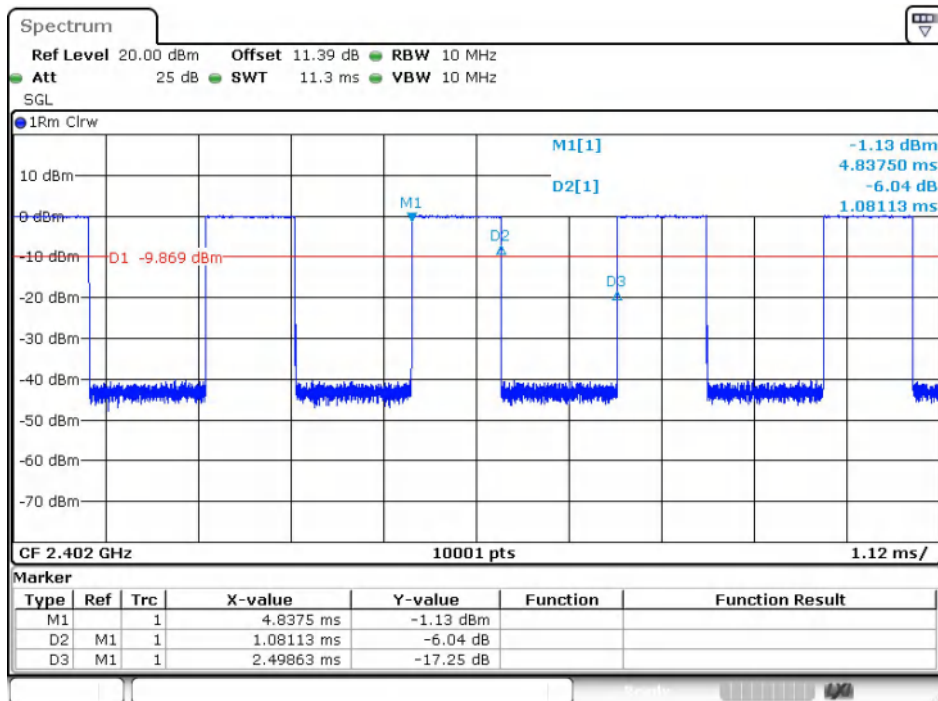
Date: 25.SEP.2024 09:52:27

BLE 1M_Channel 19



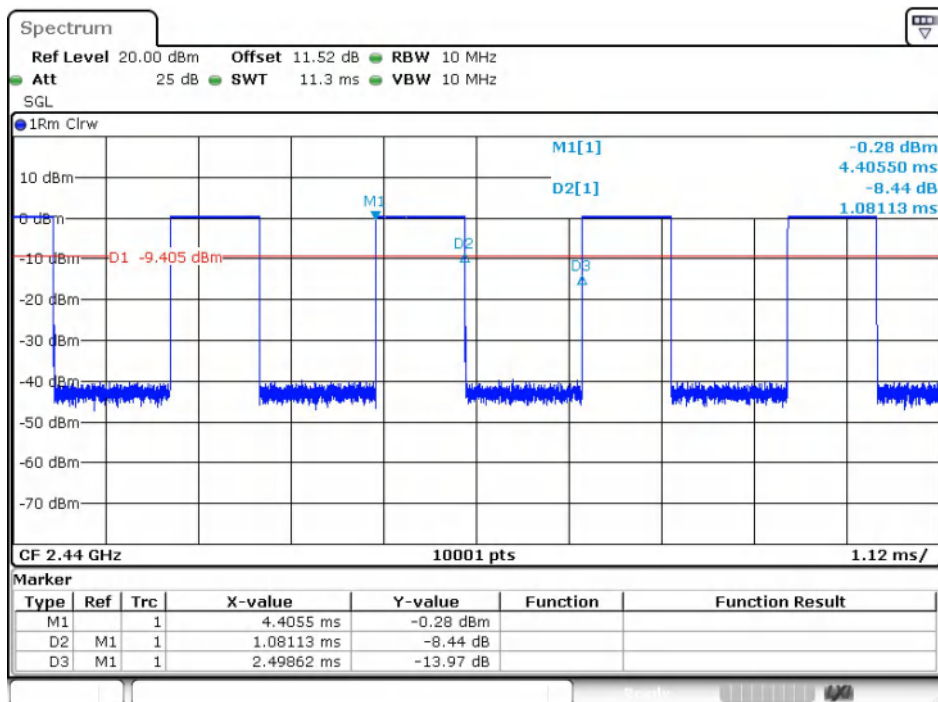
Date: 25.SEP.2024 09:55:04

BLE 1M_Channel 39



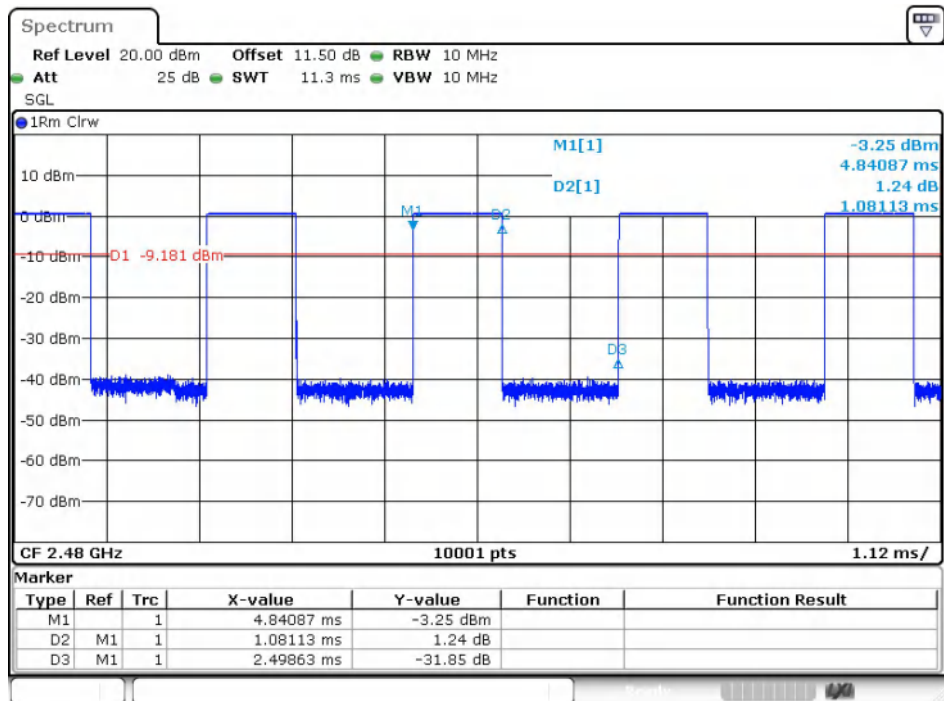
Date: 25.SEP.2024 09:57:48

BLE 2M_Channel 0



Date: 25.SEP.2024 10:00:48

BLE 2M_Channel 19



Date: 25.SEP.2024 10:03:48

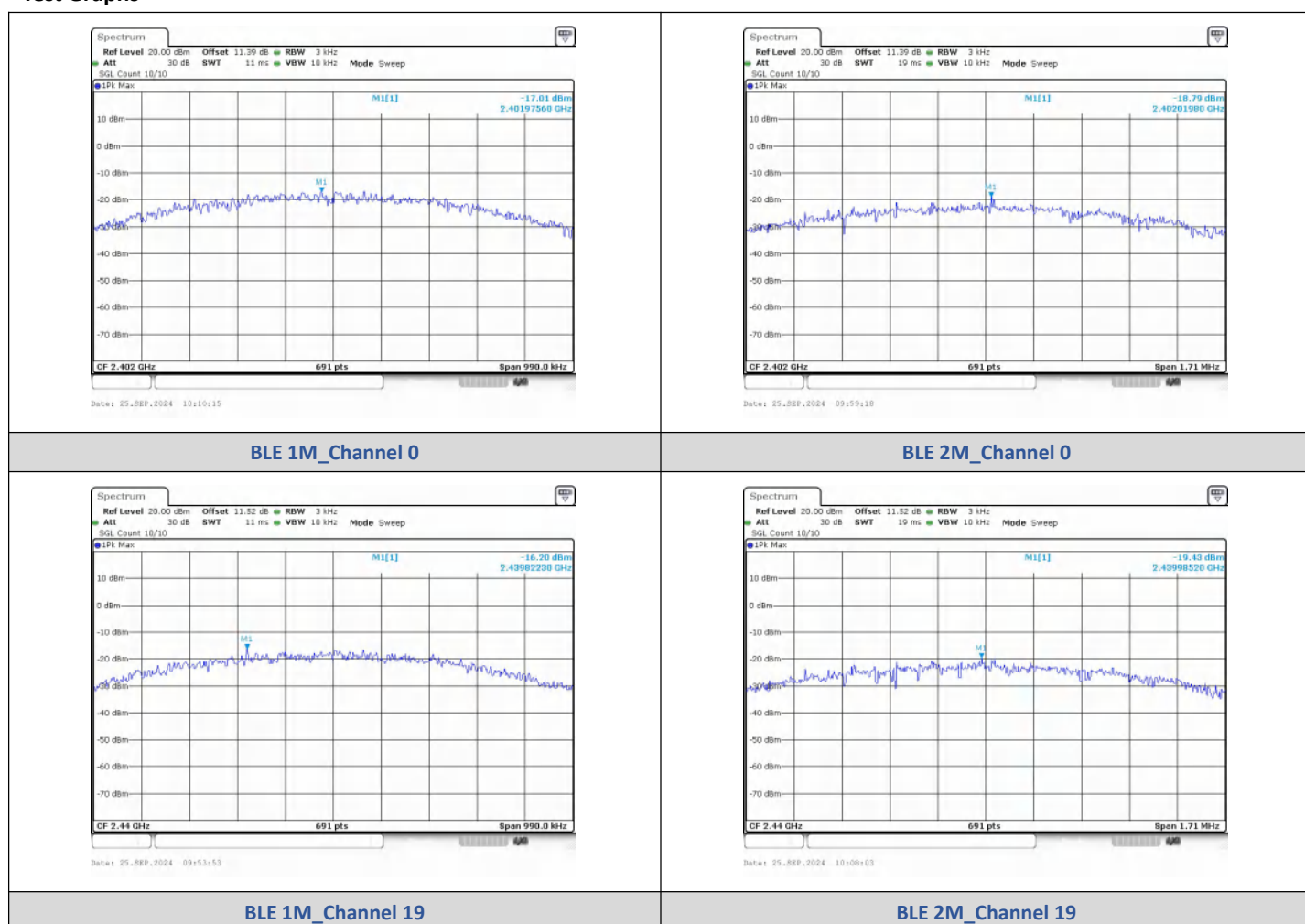
BLE 2M_Channel 39

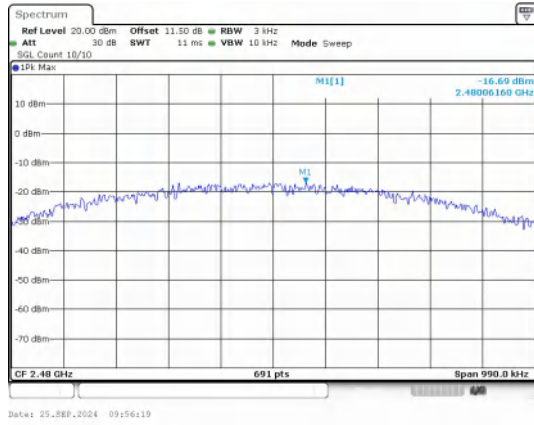
6) Power Spectral Density

Test Result

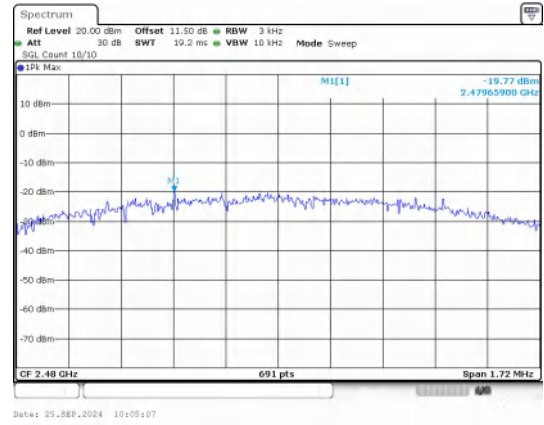
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.01	≤8	PASS
BLE 1M	19	-16.20	≤8	PASS
BLE 1M	39	-16.69	≤8	PASS
BLE 2M	0	-18.79	≤8	PASS
BLE 2M	19	-19.43	≤8	PASS
BLE 2M	39	-19.77	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39