

Appendix

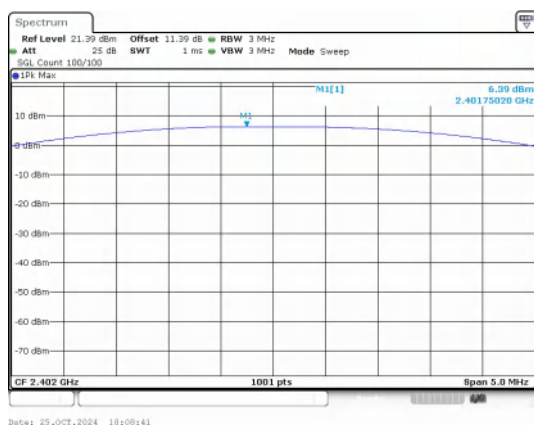
Report No.:	CISRR241022123
FCC ID:	2BET4-SM1
Product Name:	Wireless Microphone
Model No.:	SM1
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Conducted Output Power

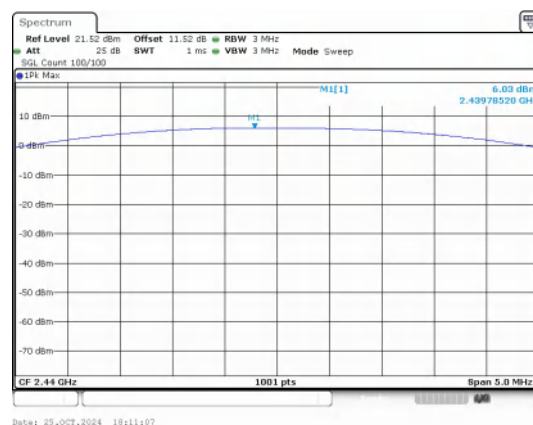
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.39	4.36	≤30	PASS
	19	6.03	4.01	≤30	PASS
	39	4.80	3.02	≤30	PASS
BLE 2M	0	6.48	4.45	≤30	PASS
	19	6.32	4.29	≤30	PASS
	39	5.16	3.29	≤30	PASS

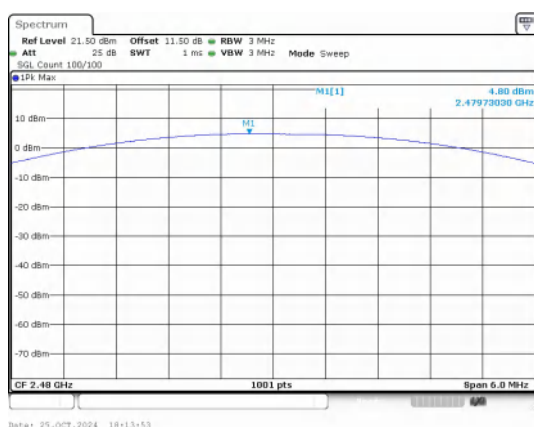
Test Graphs



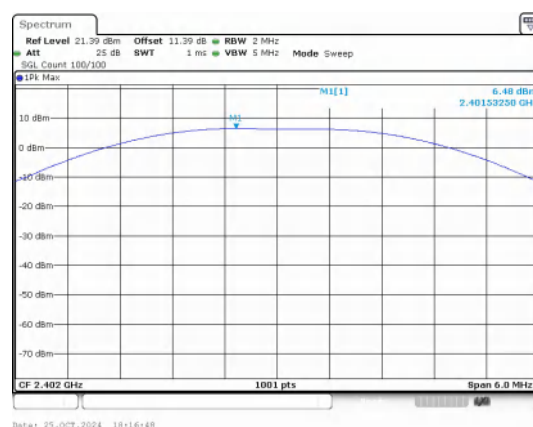
Peak Output Power
BLE 1M_Channel 0



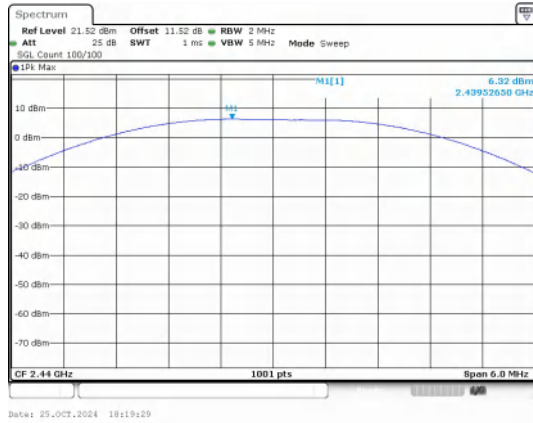
Peak Output Power
BLE 1M_Channel 19



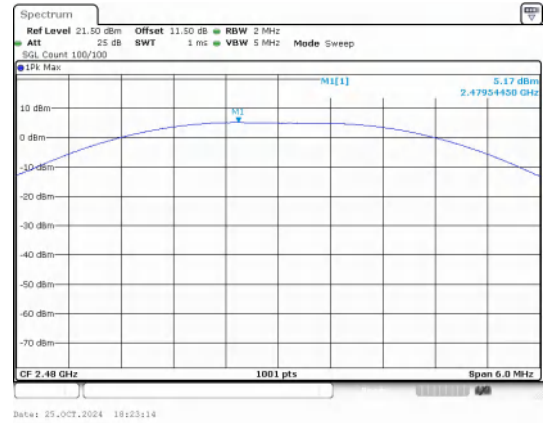
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



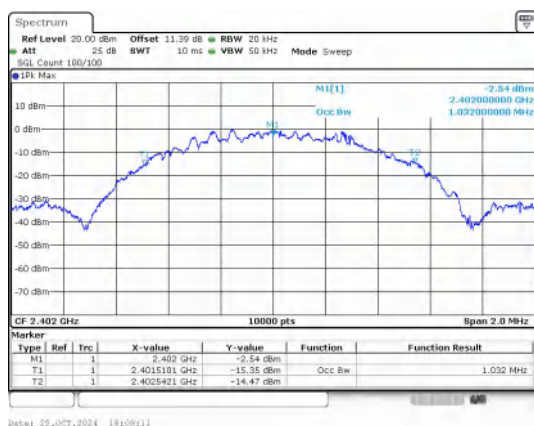
Peak Output Power
BLE 2M_Channel 39

2) 99% Bandwidth

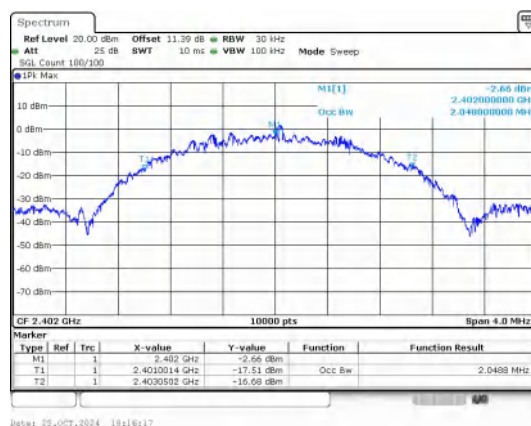
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0320
BLE 1M	19	2440	1.0320
BLE 1M	39	2480	1.0336
BLE 2M	0	2402	2.0488
BLE 2M	19	2440	2.0508
BLE 2M	39	2480	2.0592

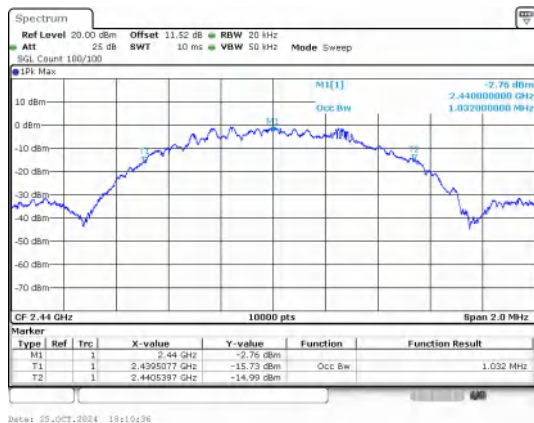
Test Graphs



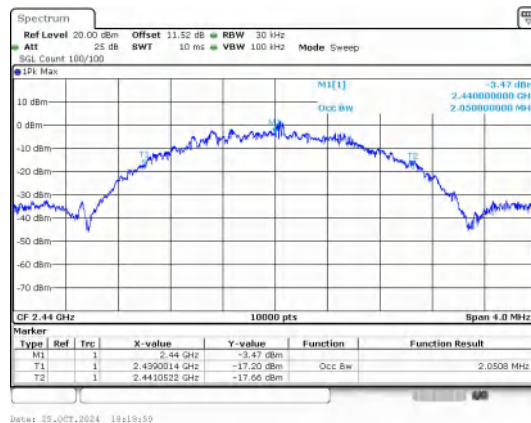
BLE 1M_Channel 0



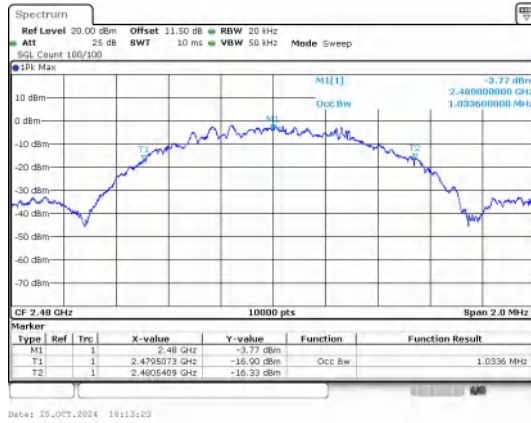
BLE 2M_Channel 0



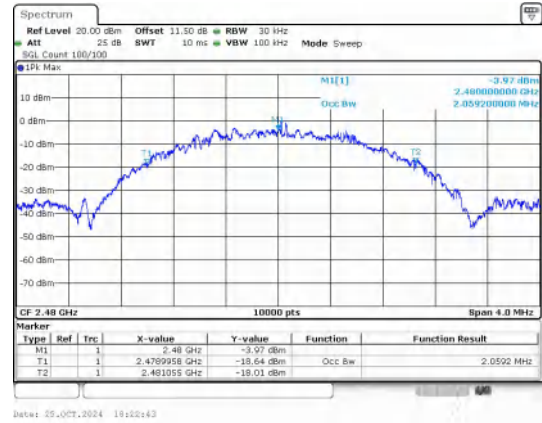
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



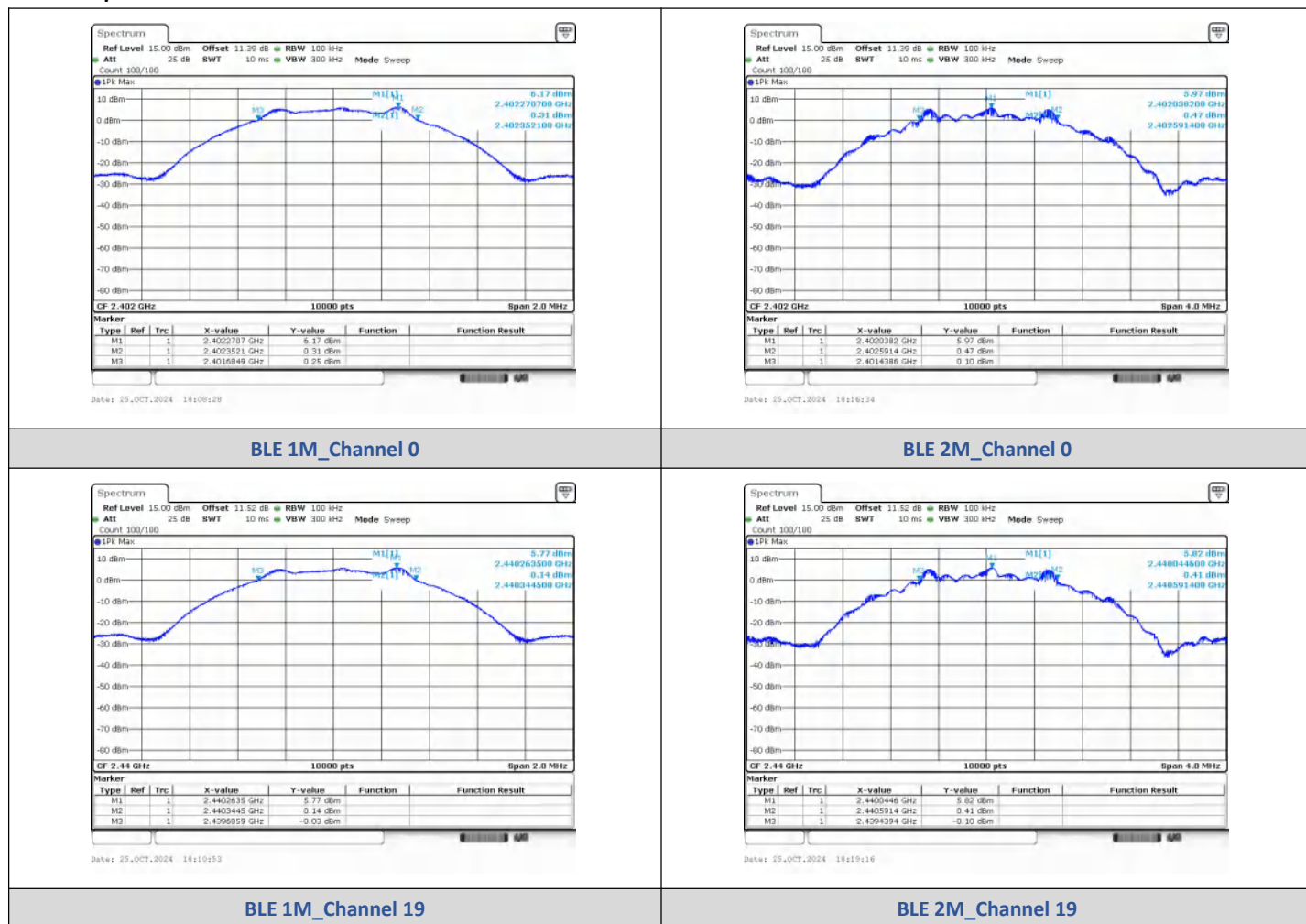
BLE 2M_Channel 39

3) 6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6700	≥0.5	PASS
	19	2440	0.6500		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.160		PASS

Test Graphs





BLE 1M_Channel 39



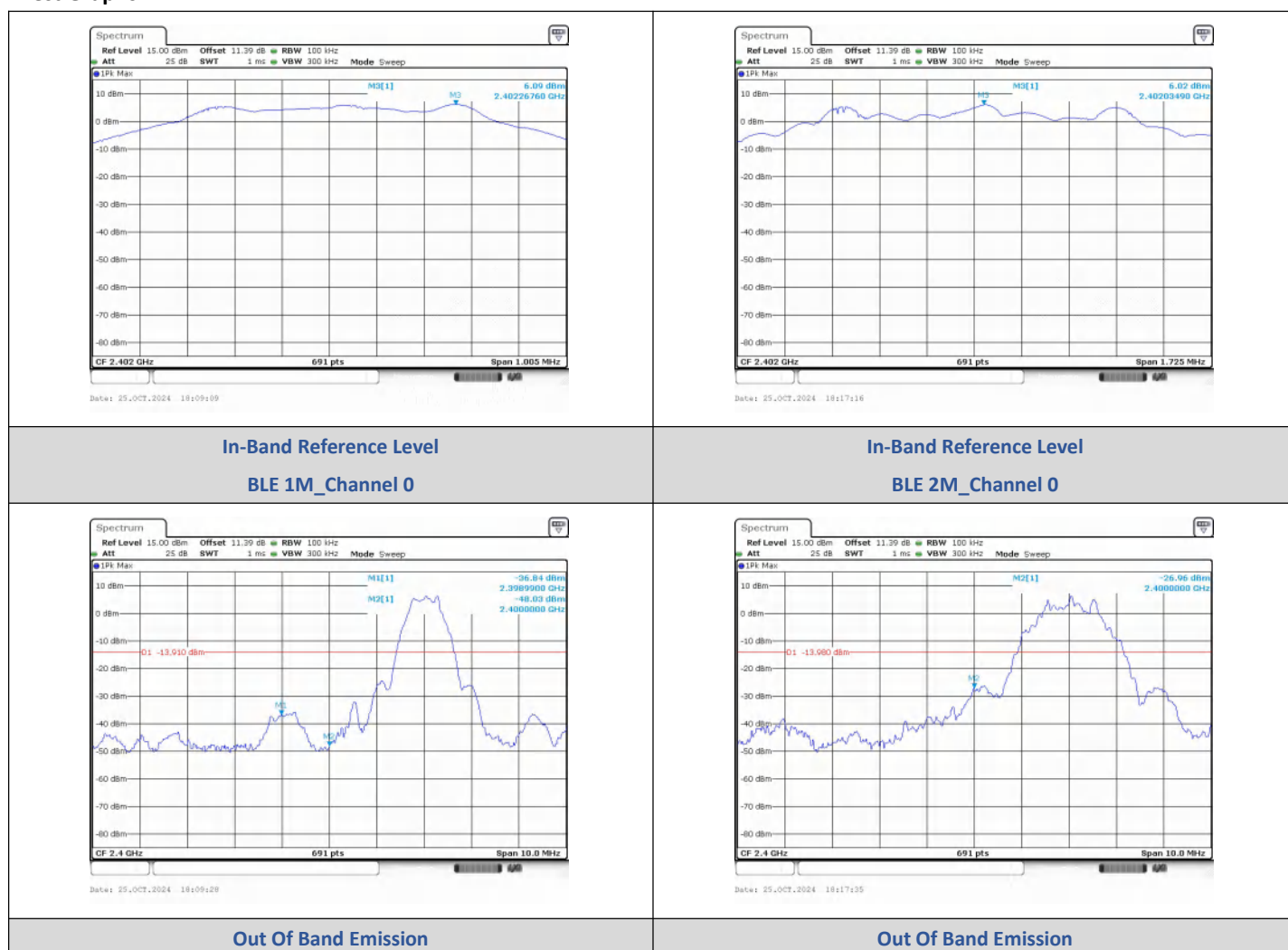
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

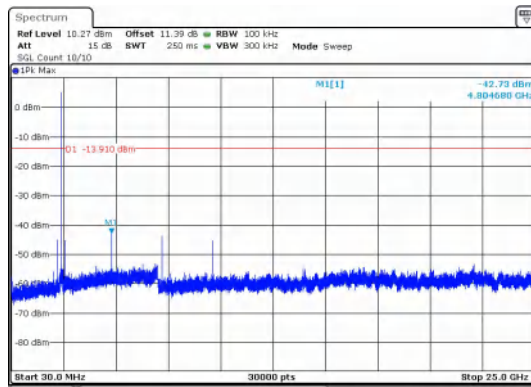
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.99	-36.843	-13.91	-22.933	PASS
		2400.00	-48.032	-13.91	-34.121	PASS
		4804.70	-42.735	-13.91	-28.825	PASS
	19	9753.73	-39.836	-14.23	-25.606	PASS
		2483.50	-44.819	-15.47	-29.349	PASS
		3402.20	-29.262	-15.47	-13.792	PASS
BLE 2M	0	2400.00	-26.956	-13.98	-12.976	PASS
		4803.02	-43.812	-13.98	-29.832	PASS
	19	9753.73	-39.764	-14.17	-25.594	PASS
		2483.50	-49.682	-15.36	-34.322	PASS
	39	9914.37	-39.850	-15.36	-24.490	PASS

Test Graphs

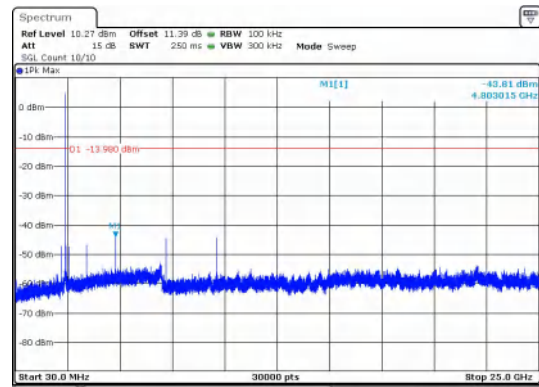


BLE 1M_Channel 0



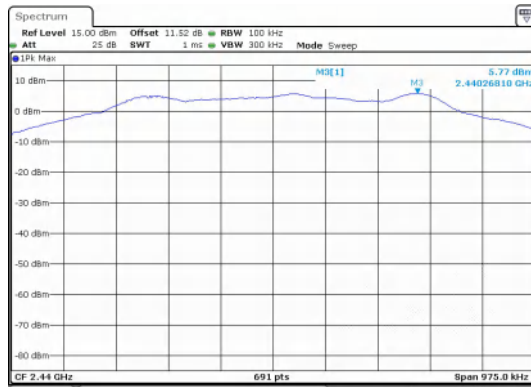
Date: 25.OCT.2024 18:09:51

BLE 2M_Channel 0



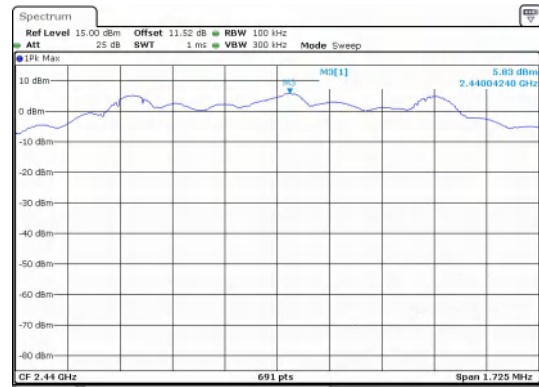
Date: 25.OCT.2024 18:17:57

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



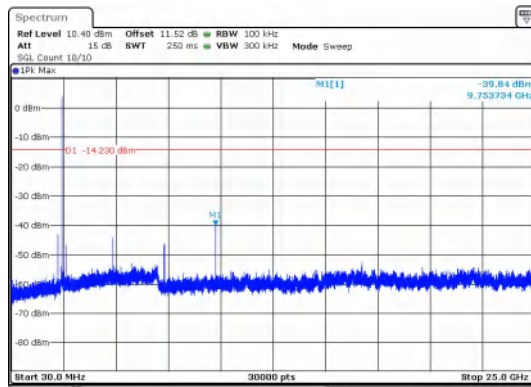
Date: 25.OCT.2024 18:11:34

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



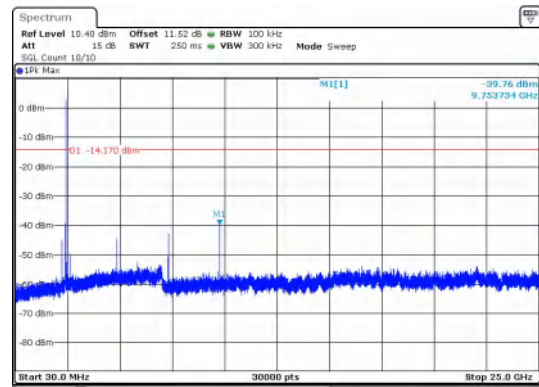
Date: 25.OCT.2024 18:19:57

In-Band Reference Level
BLE 1M_Channel 19



Date: 25.OCT.2024 18:11:58

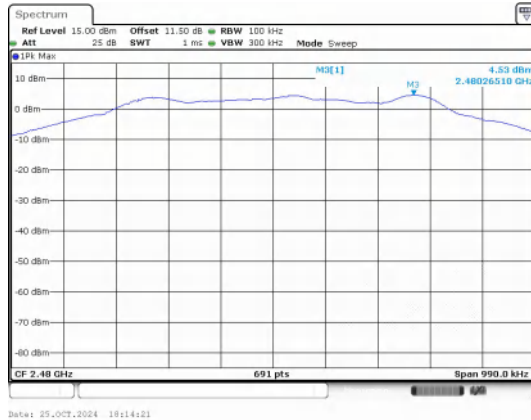
In-Band Reference Level
BLE 2M_Channel 19



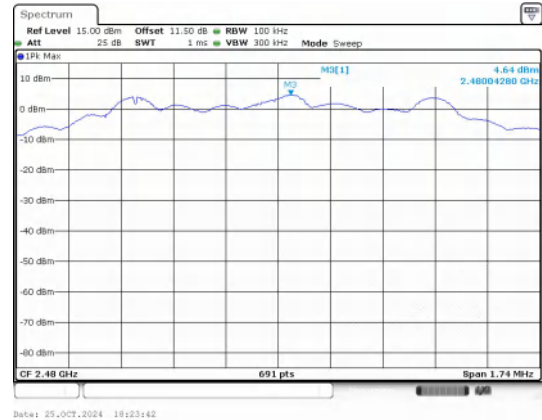
Date: 25.OCT.2024 18:20:21

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

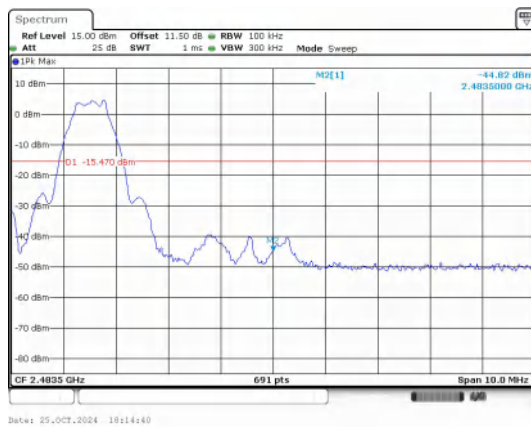
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



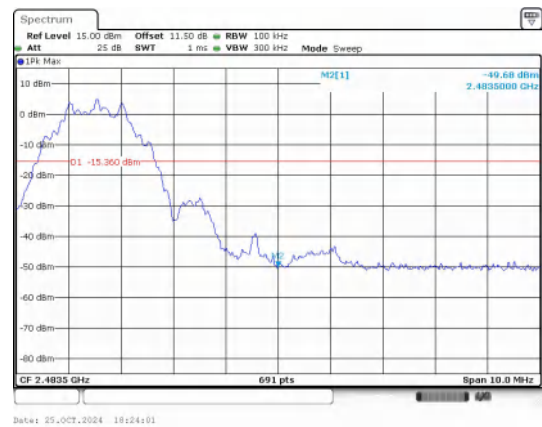
**In-Band Reference Level
BLE 1M_Channel 39**



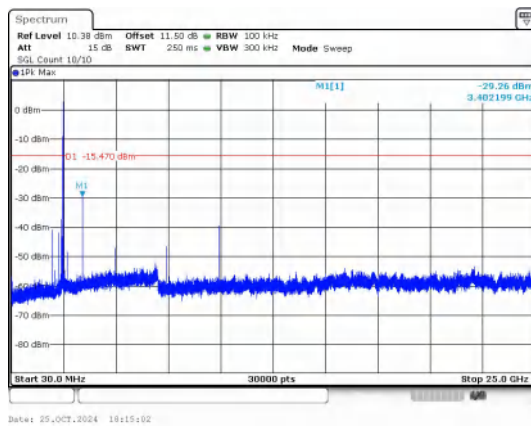
**In-Band Reference Level
BLE 2M_Channel 39**



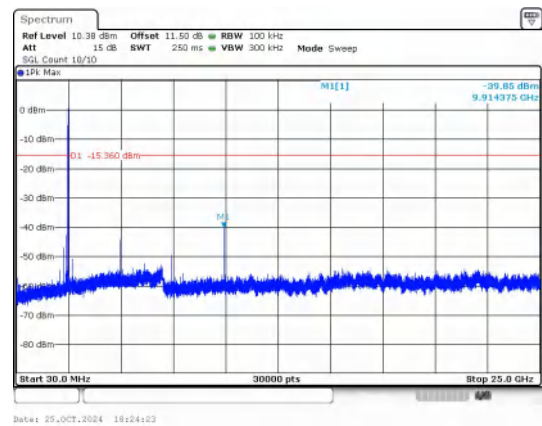
**Out Of Band Emission
BLE 1M_Channel 39**



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



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



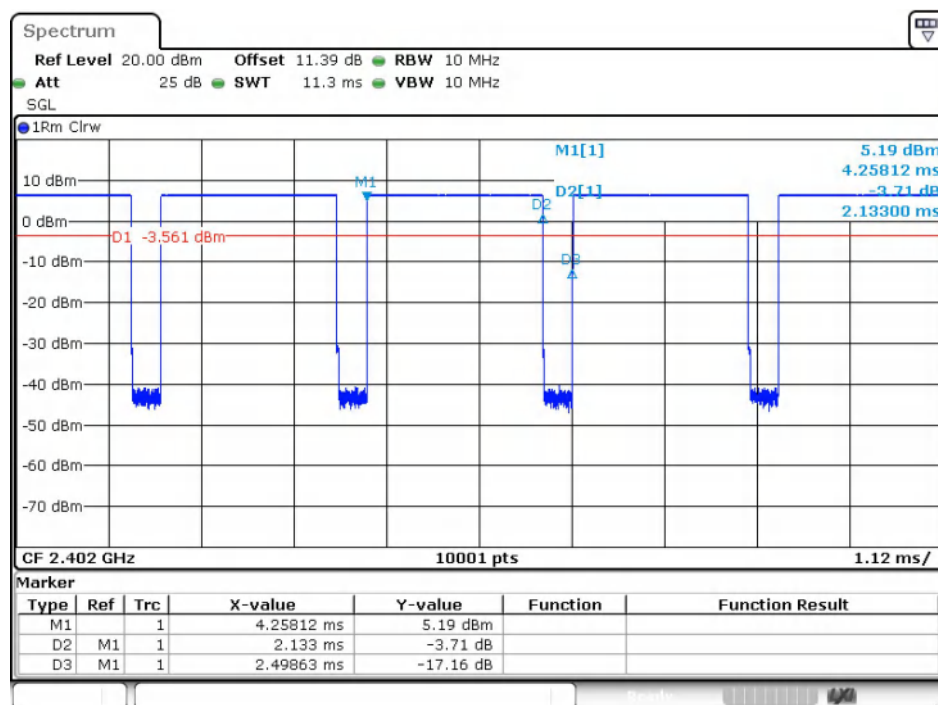
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39**

5) Duty Cycle

Test Result

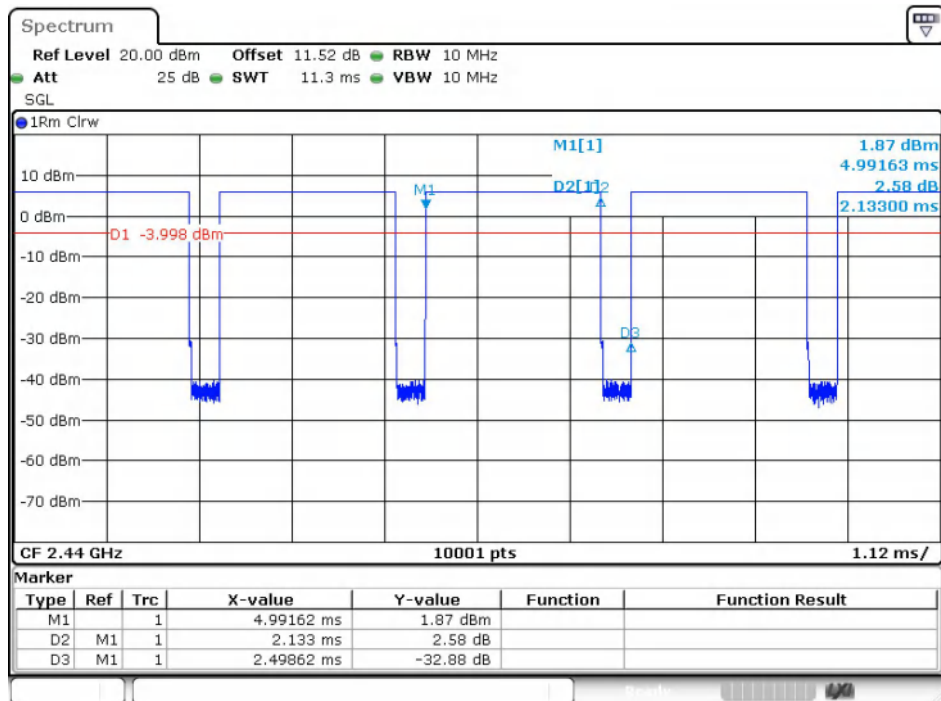
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.4688
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.134	2.500	85.37	0.8537	0.6869	0.4686
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.081	2.499	43.27	0.4327	3.6381	0.9251
	39	1.082	2.500	43.29	0.4329	3.6361	0.9242

Test Graphs



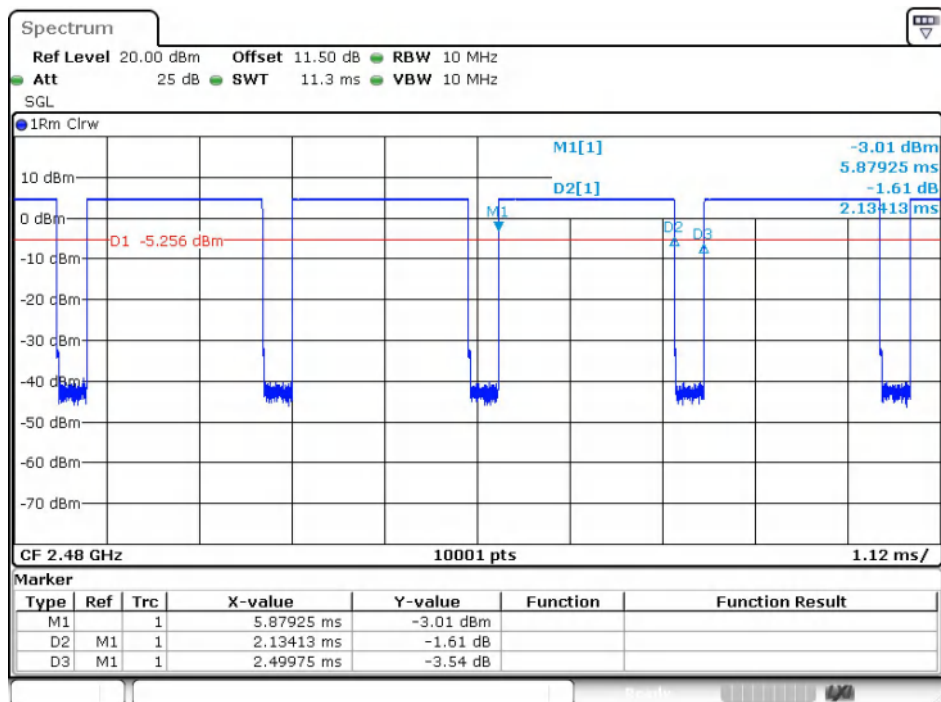
Date: 25.OCT.2024 18:07:55

BLE 1M_Channel 0



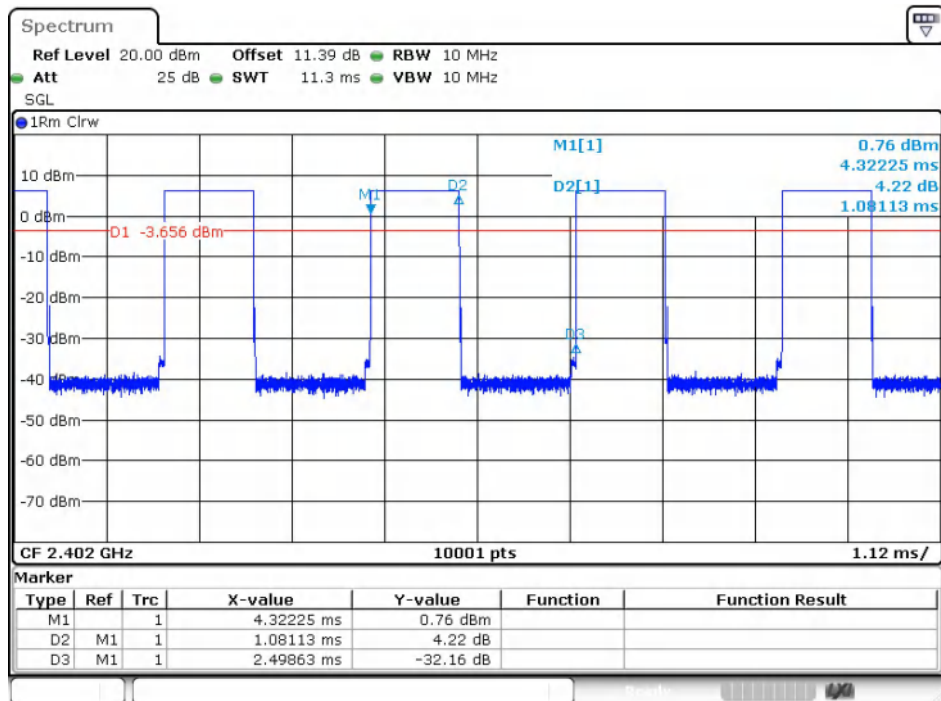
Date: 25.OCT.2024 18:10:21

BLE 1M_Channel 19



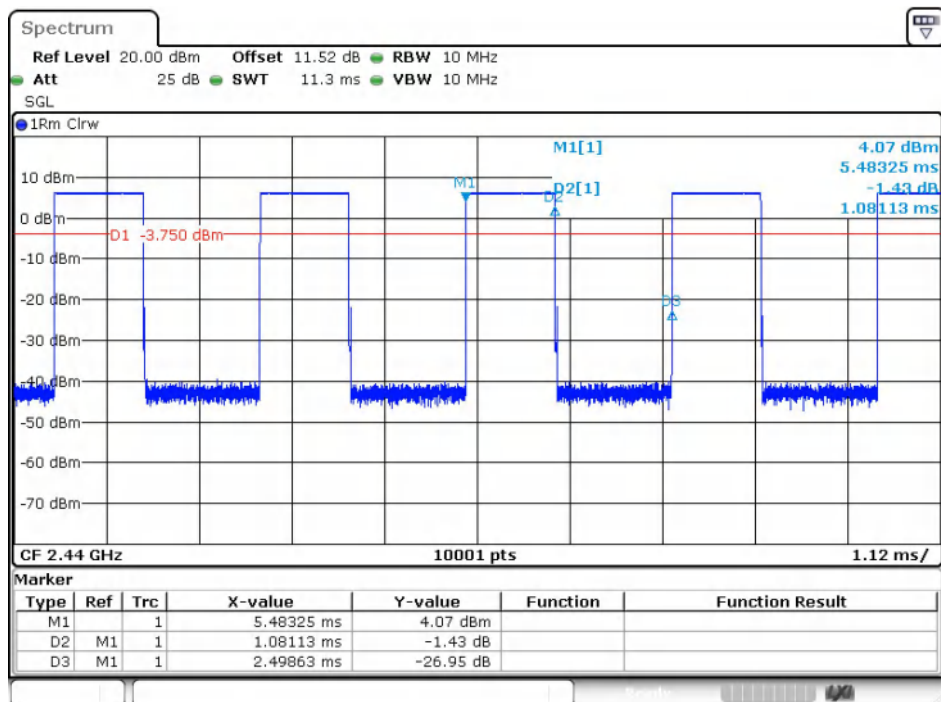
Date: 25.OCT.2024 18:13:07

BLE 1M_Channel 39



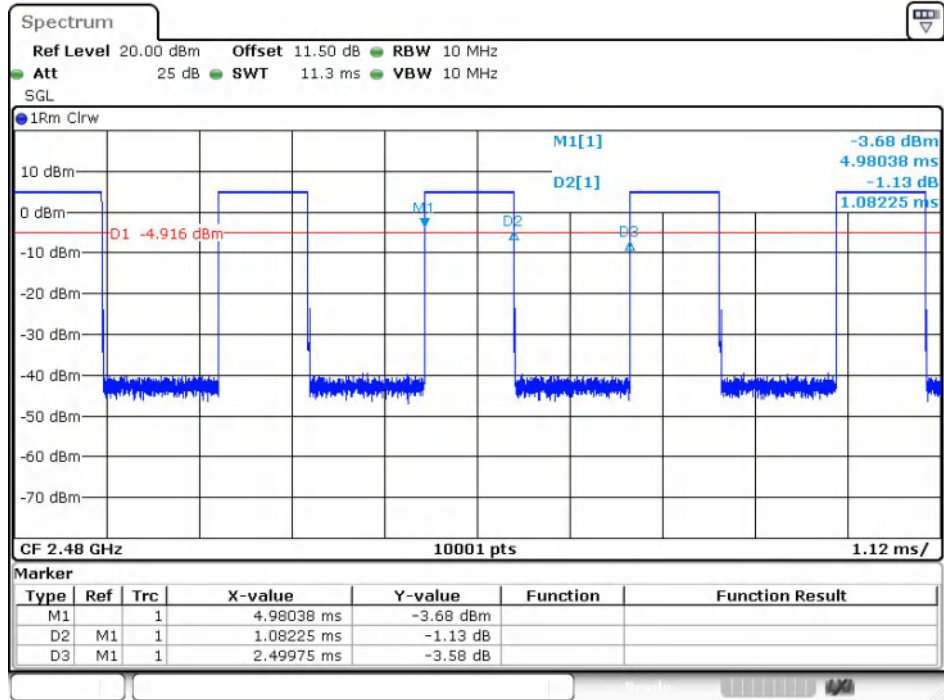
Date: 25.OCT.2024 18:16:02

BLE 2M_Channel 0



Date: 25.OCT.2024 18:18:43

BLE 2M_Channel 19



Date: 25.OCT.2024 18:22:28

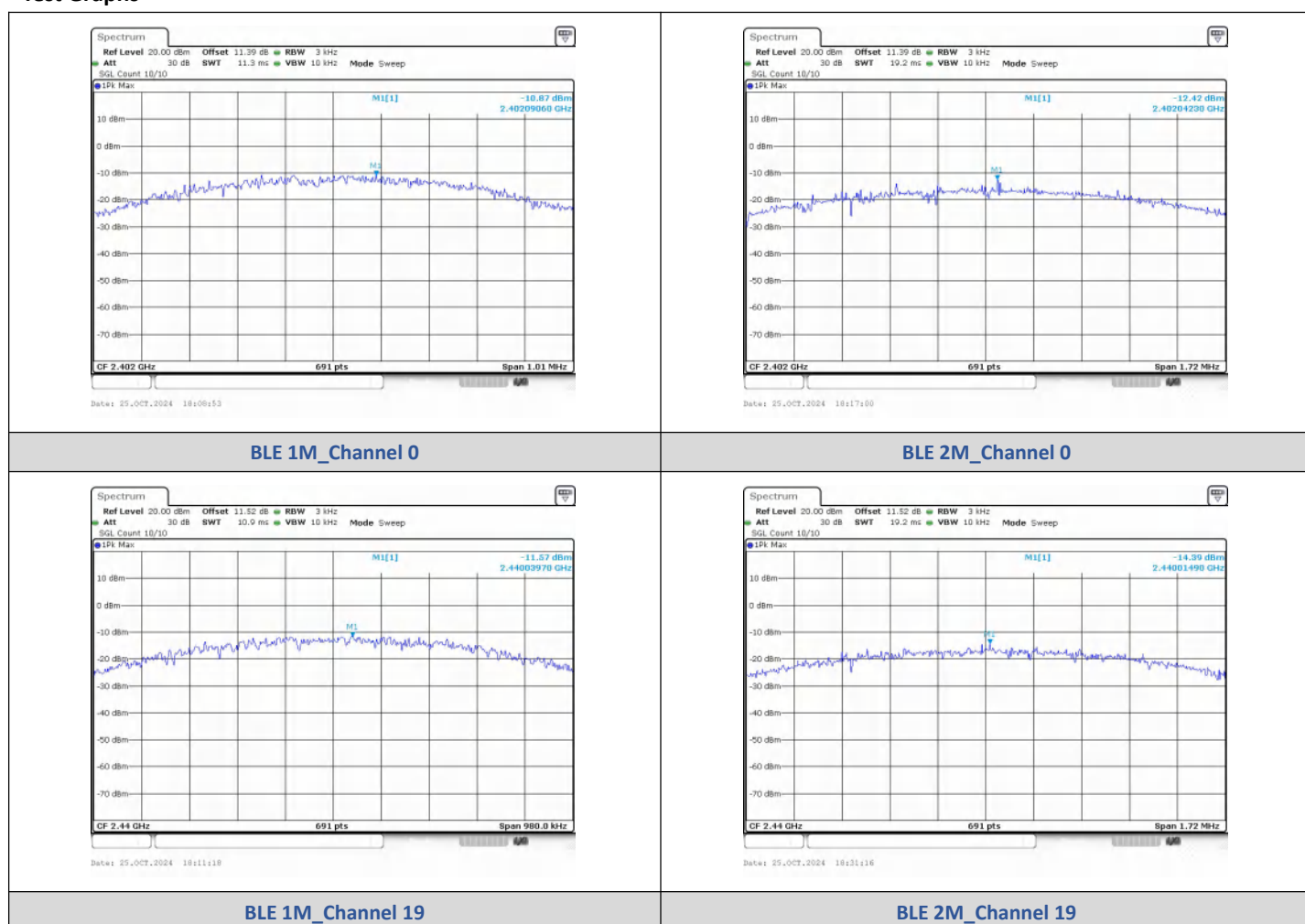
BLE 2M_Channel 39

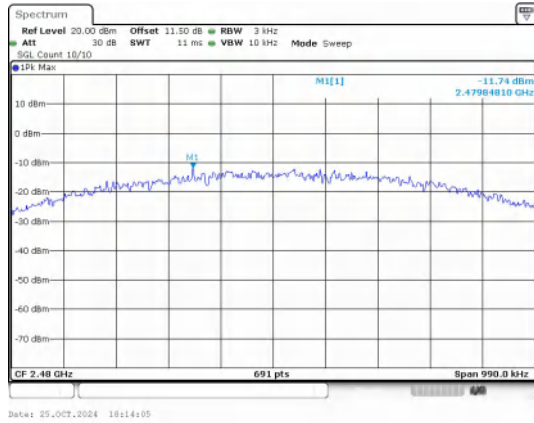
6) Power Spectral Density

Test Result

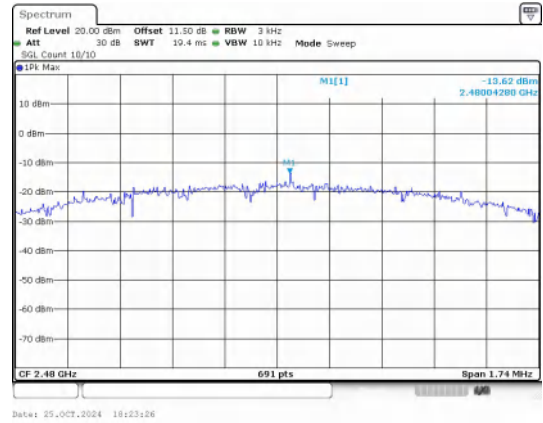
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-10.87	≤8	PASS
BLE 1M	19	-11.57	≤8	PASS
BLE 1M	39	-11.74	≤8	PASS
BLE 2M	0	-12.42	≤8	PASS
BLE 2M	19	-14.39	≤8	PASS
BLE 2M	39	-13.62	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39