

Appendix A

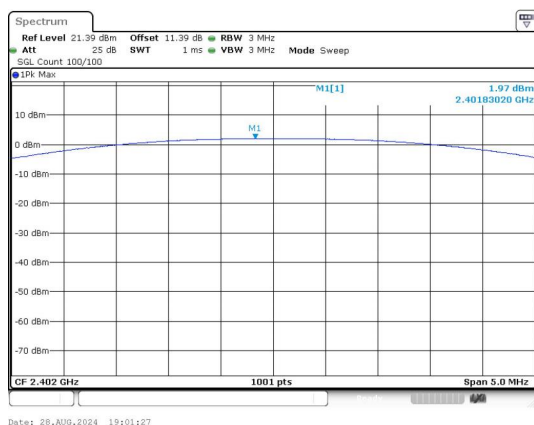
Report No.:	CISRR24082718901
FCC ID:	2BKMT-HST-FM02
Product Name:	Smart Tag Finder
Model No.:	HST-FM02
Test Engineer:	Jimmy Huang
Supervised by:	Rory Huang

1) Conducted Output Power

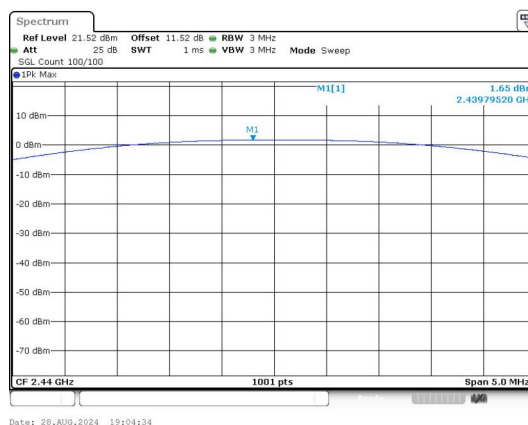
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.97	1.57	≤30	PASS
	19	1.65	1.46	≤30	PASS
	39	1.51	1.42	≤30	PASS
BLE 2M	0	2.01	1.59	≤30	PASS
	19	1.67	1.47	≤30	PASS
	39	1.50	1.41	≤30	PASS

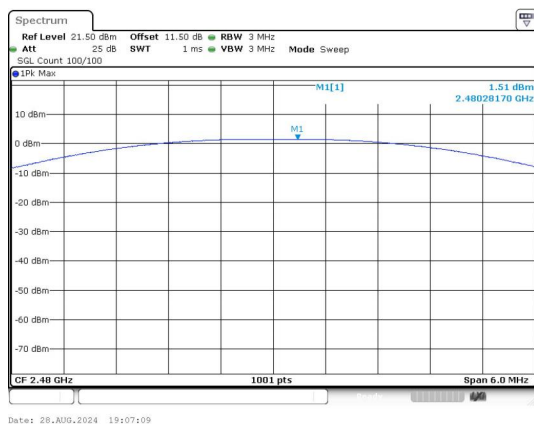
Test Graphs



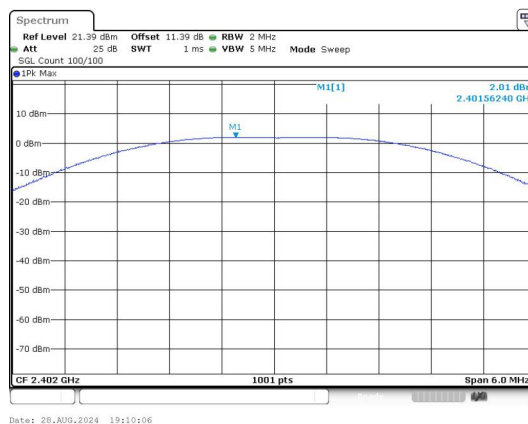
Peak Output Power
BLE 1M_Channel 0



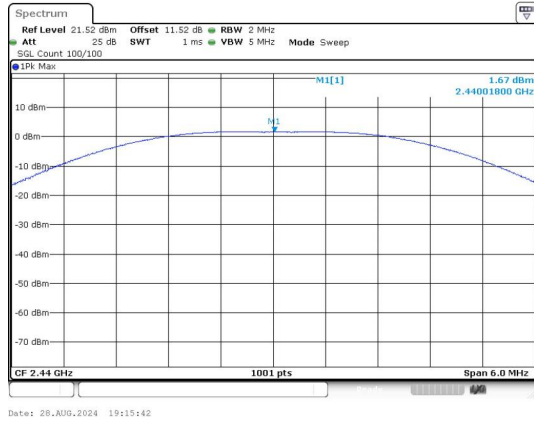
Peak Output Power
BLE 1M_Channel 19



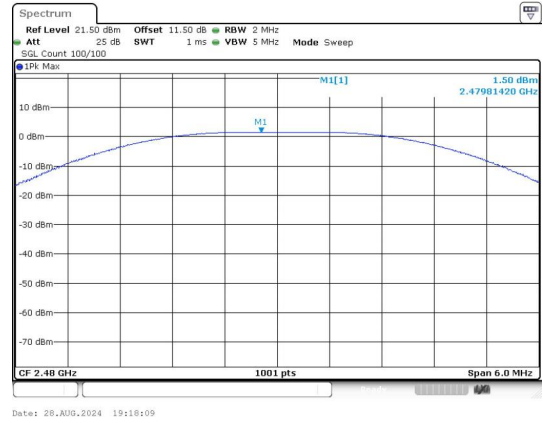
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



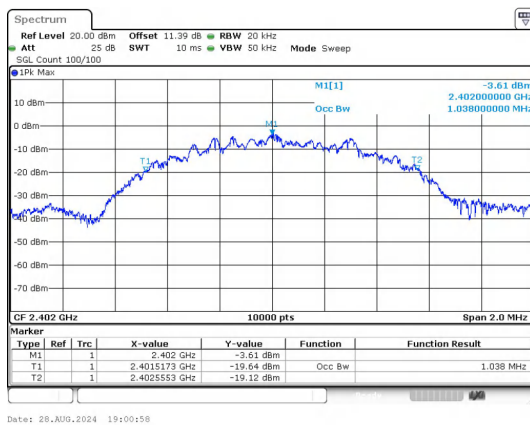
Peak Output Power
BLE 2M_Channel 39

2) 99% Bandwidth

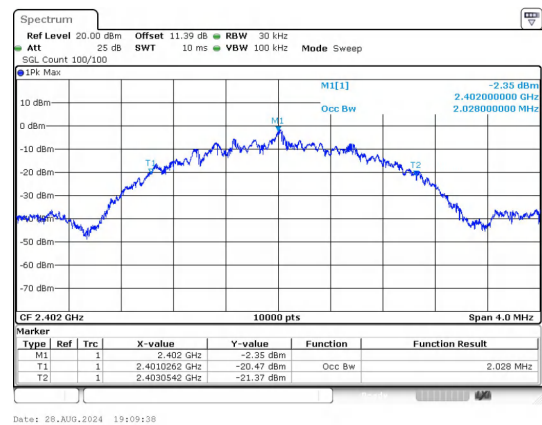
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0380
BLE 1M	19	2440	1.0434
BLE 1M	39	2480	1.0460
BLE 2M	0	2402	2.0280
BLE 2M	19	2440	2.0272
BLE 2M	39	2480	2.0424

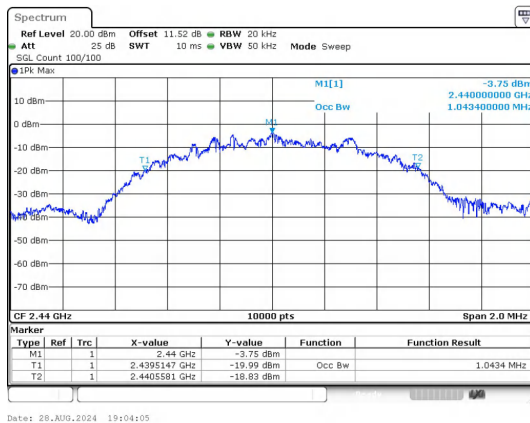
Test Graphs



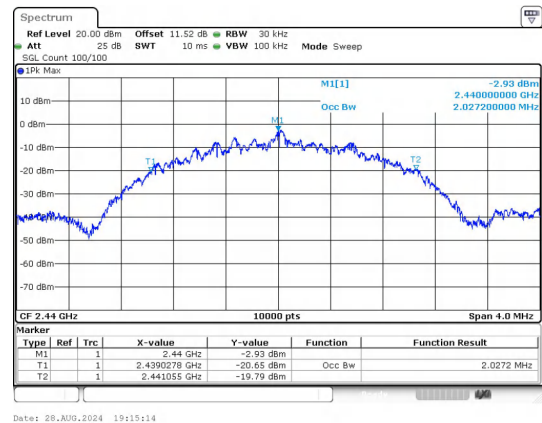
BLE 1M_Channel 0



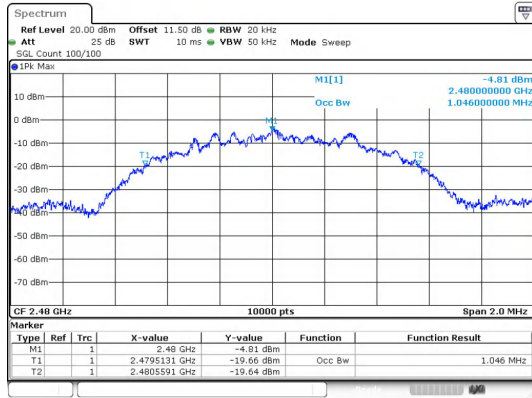
BLE 2M_Channel 0



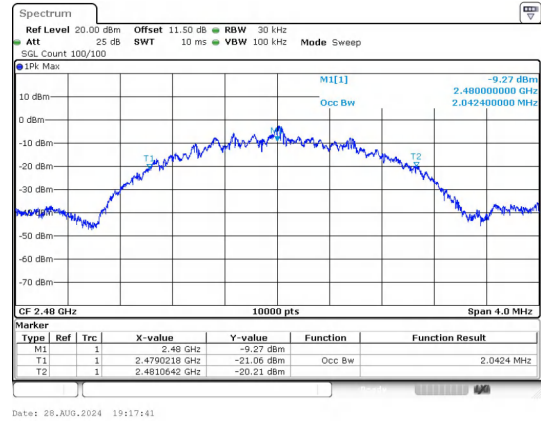
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



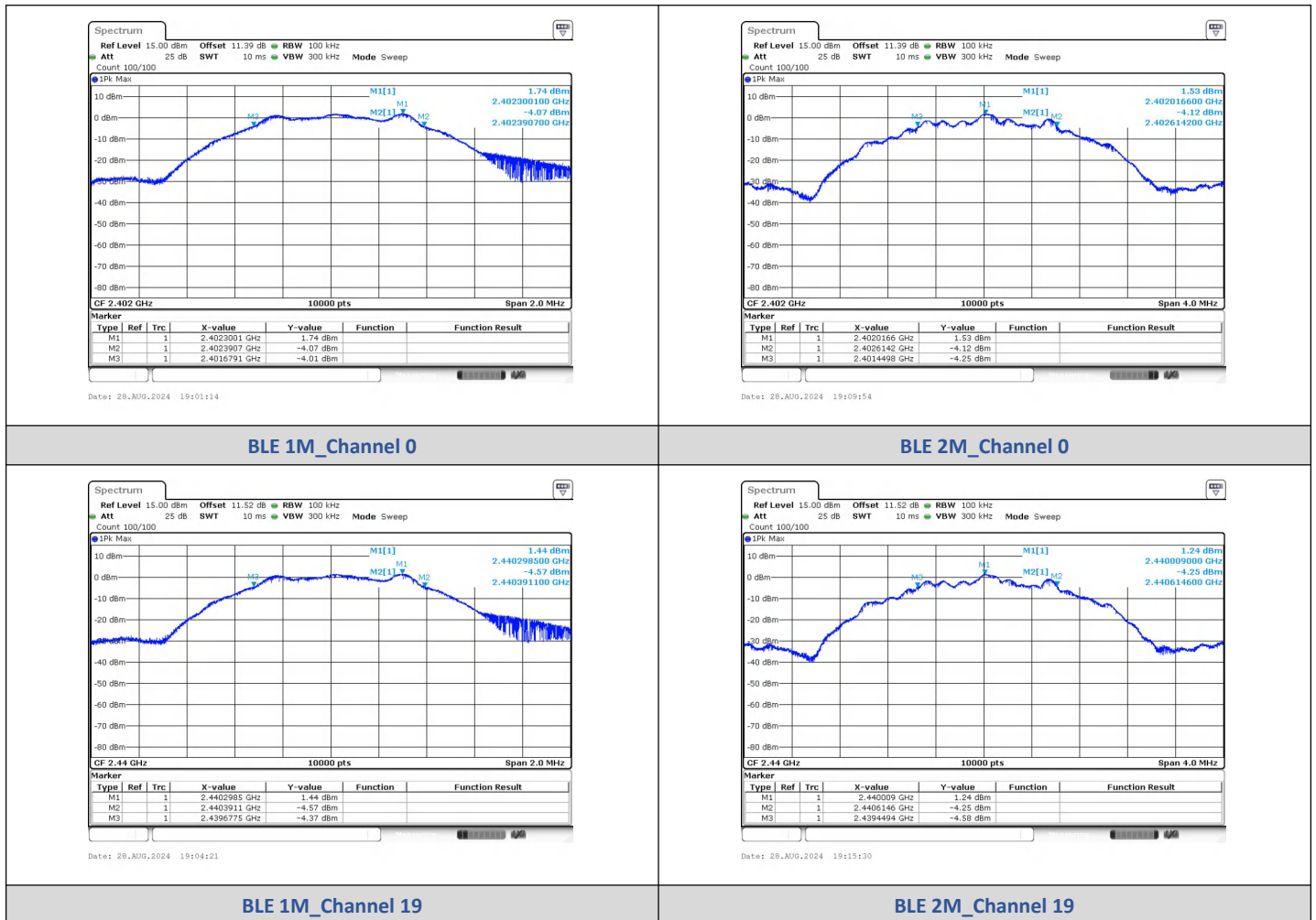
BLE 2M_Channel 39

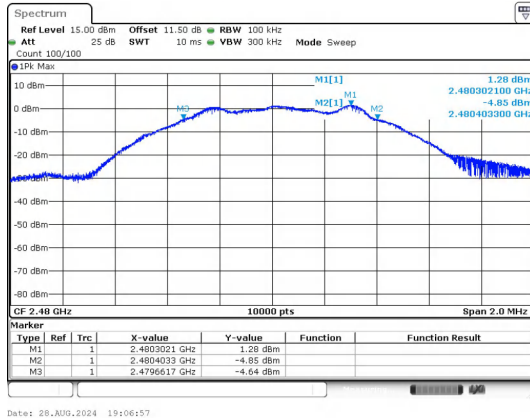
3) 6dB Bandwidth

Test Result

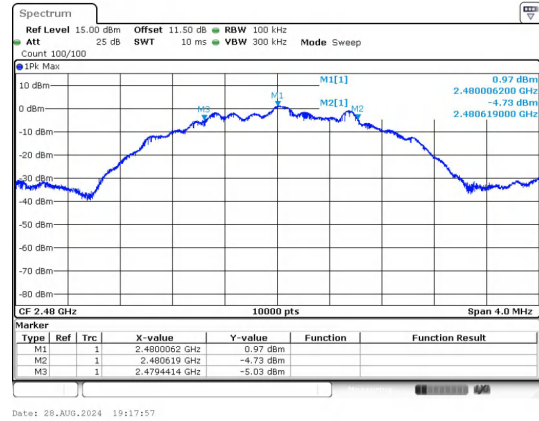
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7100	≥0.5	PASS
	19	2440	0.7100		PASS
	39	2480	0.7400		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.180		PASS

Test Graphs





BLE 1M_Channel 39



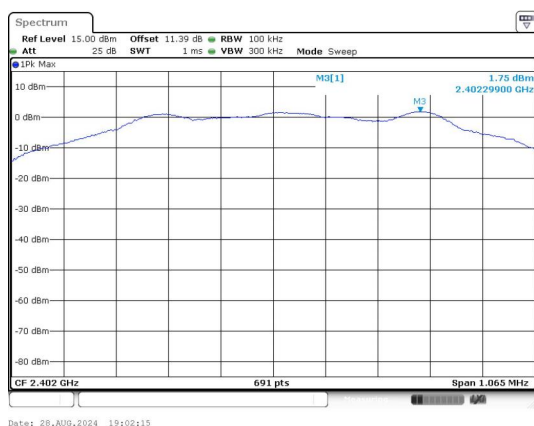
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

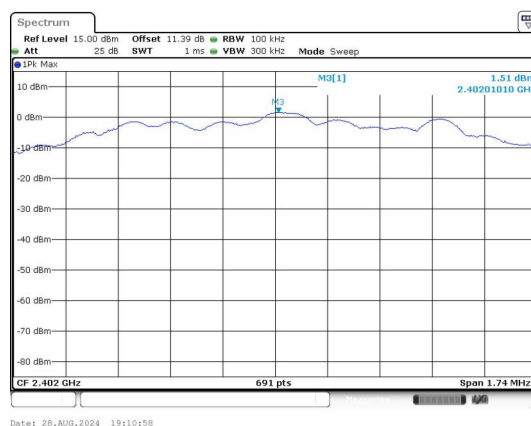
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2385.92	-51.649	-18.25	-33.399	PASS
		2400.00	-34.884	-18.25	-16.634	PASS
	19	6954.60	-53.148	-18.55	-34.598	PASS
	39	2483.50	-47.845	-18.72	-29.125	PASS
		2495.79	-51.627	-18.72	-32.907	PASS
BLE 2M	0	2385.92	-52.330	-18.49	-33.840	PASS
		2400.00	-31.822	-18.49	-13.332	PASS
	19	6907.15	-53.160	-18.83	-34.330	PASS
	39	2483.50	-43.815	-19.06	-24.755	PASS
		22049.8	-52.440	-19.06	-33.380	PASS

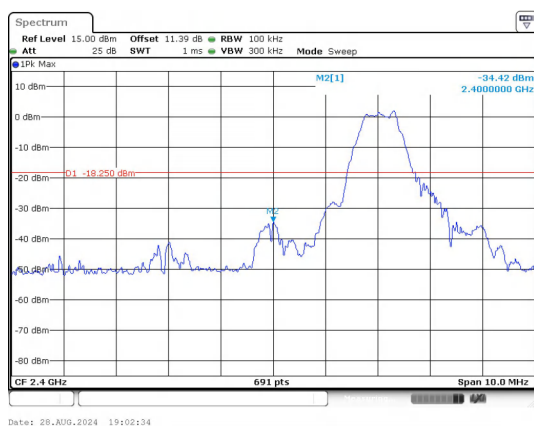
Test Graphs



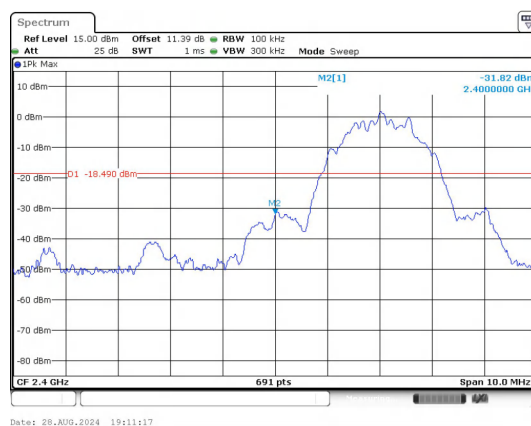
In-Band Reference Level
BLE 1M_Channel 0



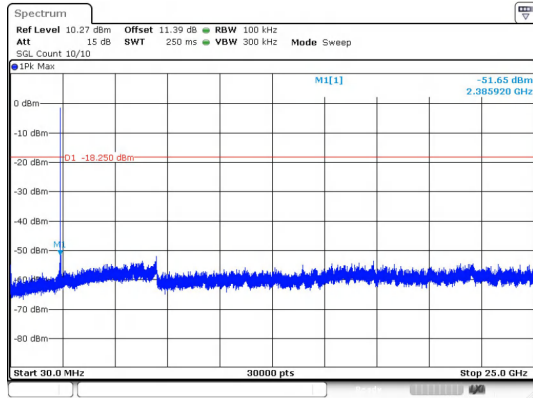
In-Band Reference Level
BLE 2M_Channel 0



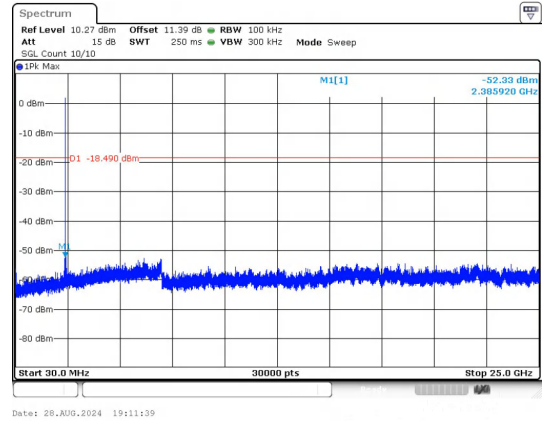
Out Of Band Emission
BLE 1M_Channel 0



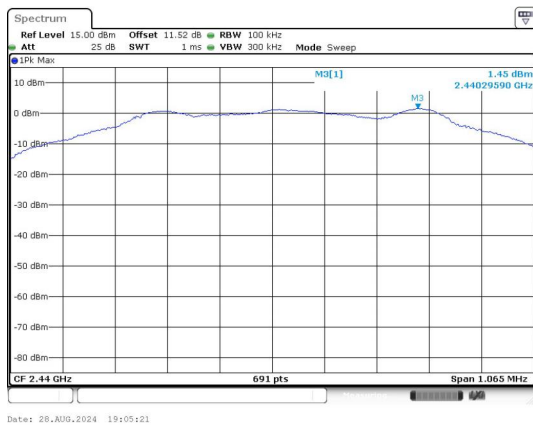
Out Of Band Emission
BLE 2M_Channel 0



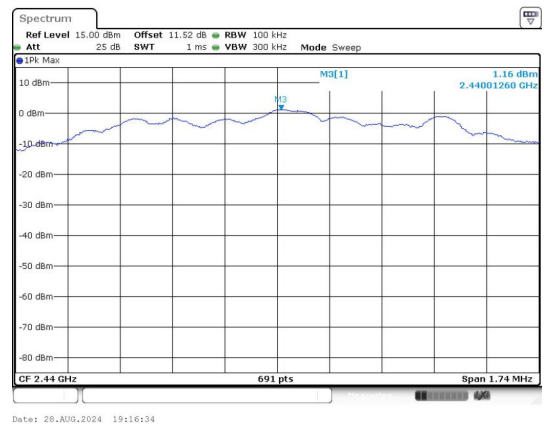
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



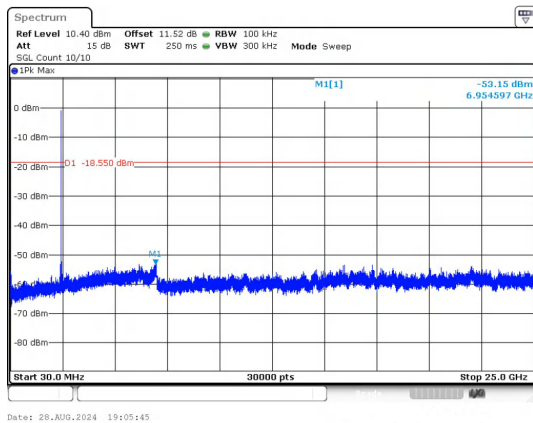
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



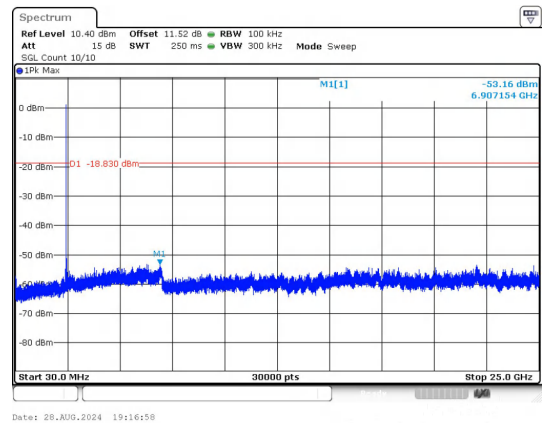
In-Band Reference Level
BLE 1M_Channel 19



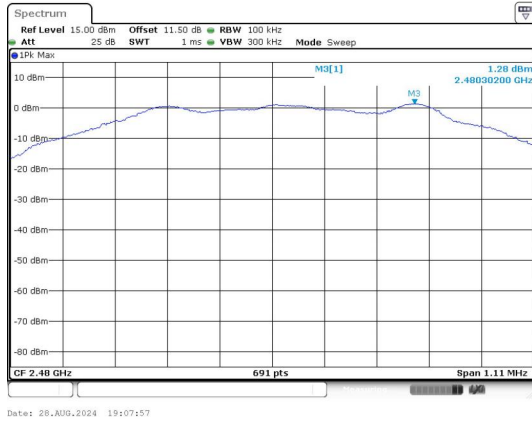
In-Band Reference Level
BLE 2M_Channel 19



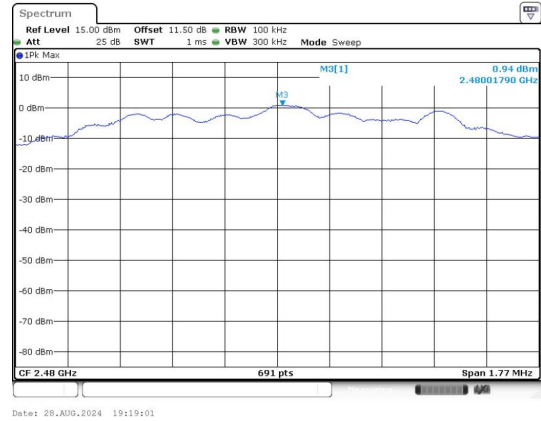
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



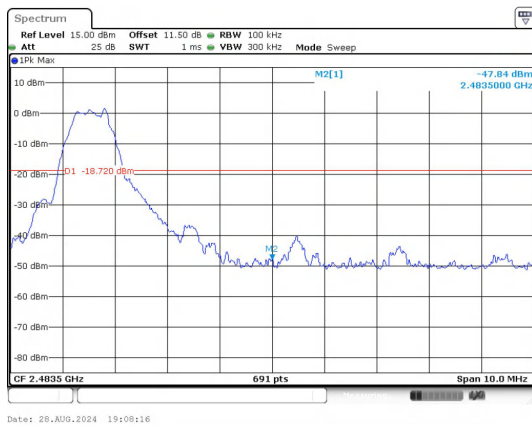
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



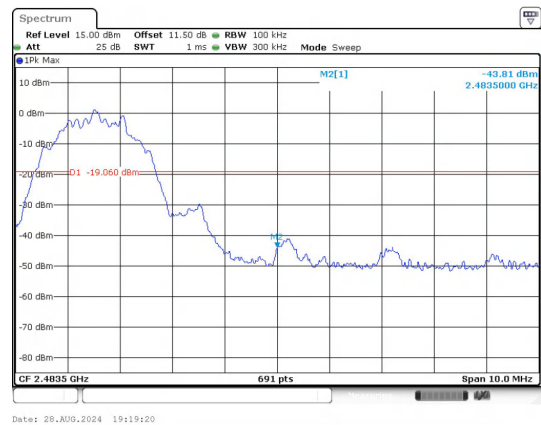
In-Band Reference Level
BLE 1M_Channel 39



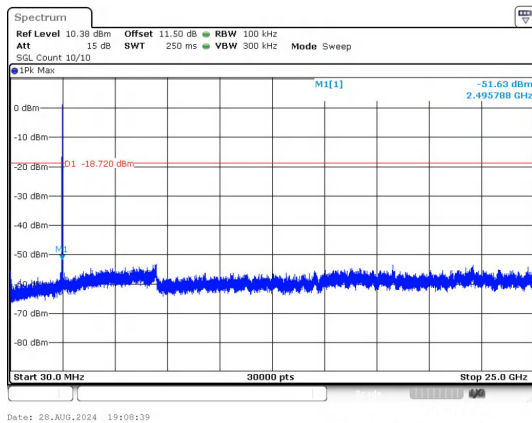
In-Band Reference Level
BLE 2M_Channel 39



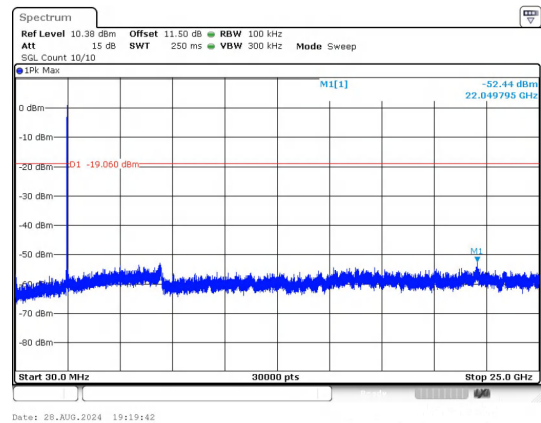
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



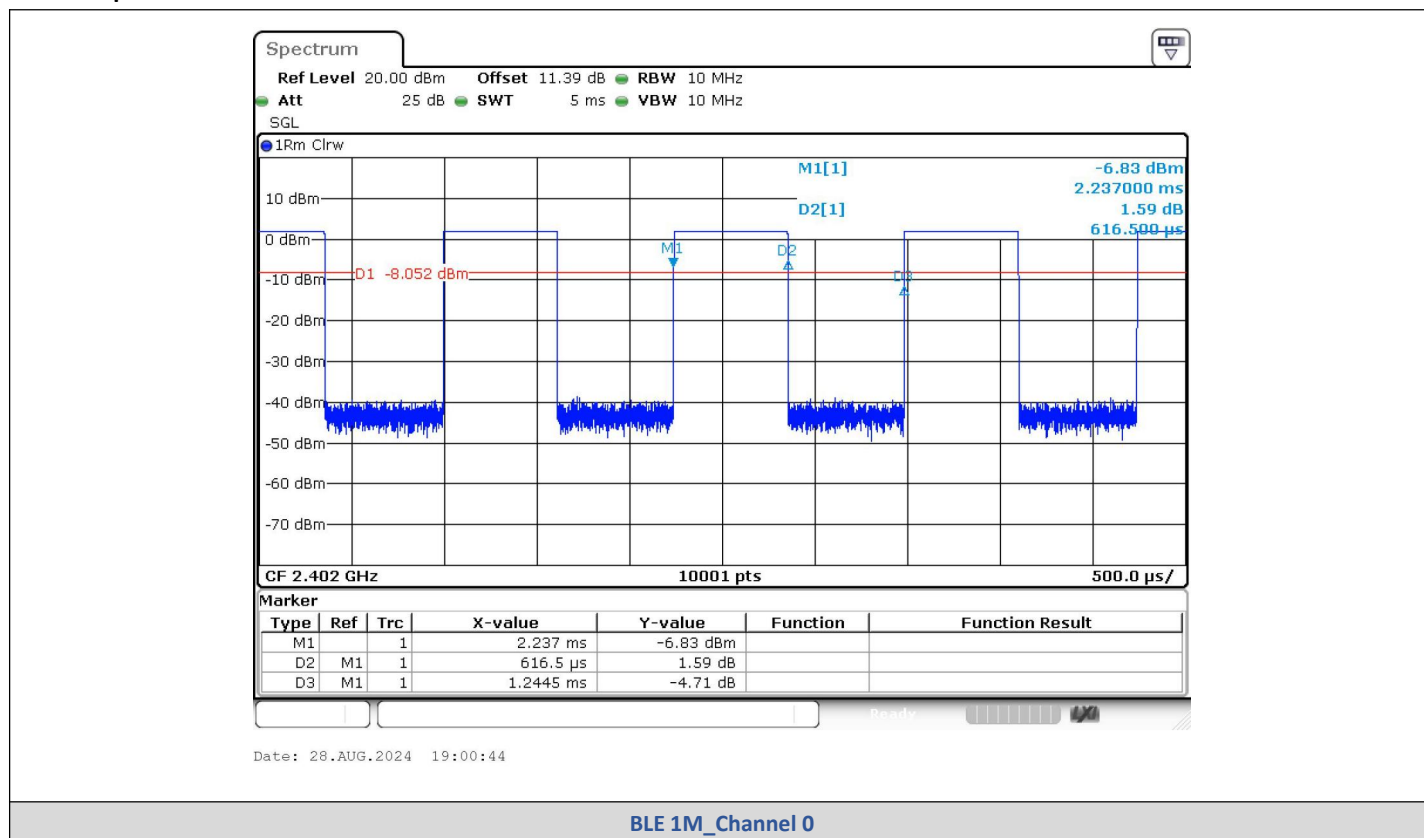
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

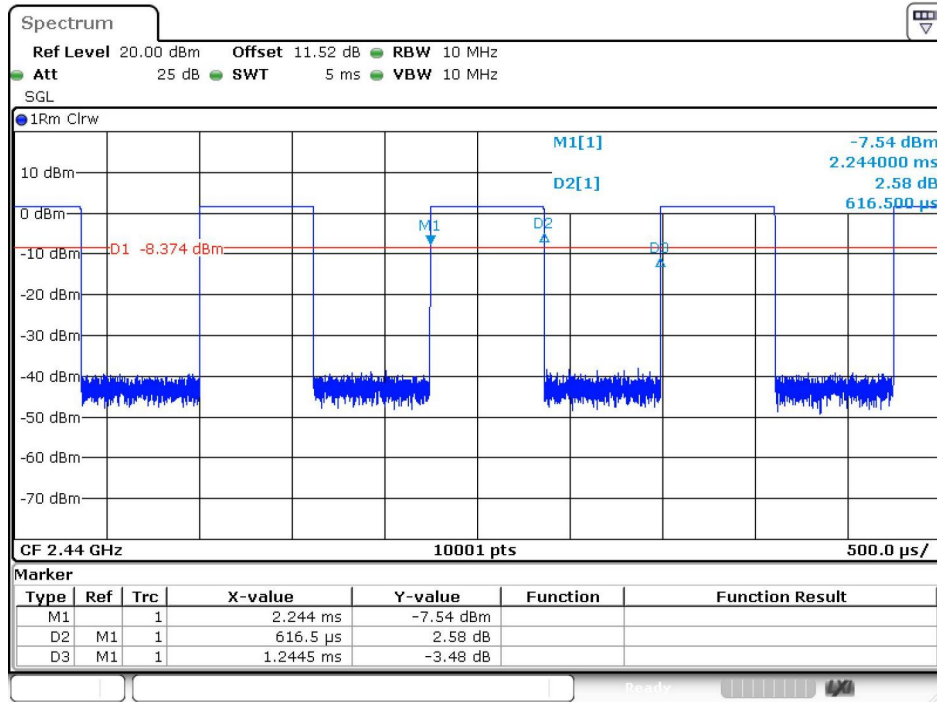
5) Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	0.617	1.245	49.54	0.4954	3.0504	1.62
	19	0.617	1.245	49.54	0.4954	3.0504	1.62
	39	0.616	1.244	49.49	0.4949	3.0548	1.62
BLE 2M	0	0.317	0.626	50.56	0.5056	2.9619	3.15
	19	0.316	0.626	50.53	0.5053	2.9645	3.16
	39	0.316	0.626	50.53	0.5053	2.9645	3.16

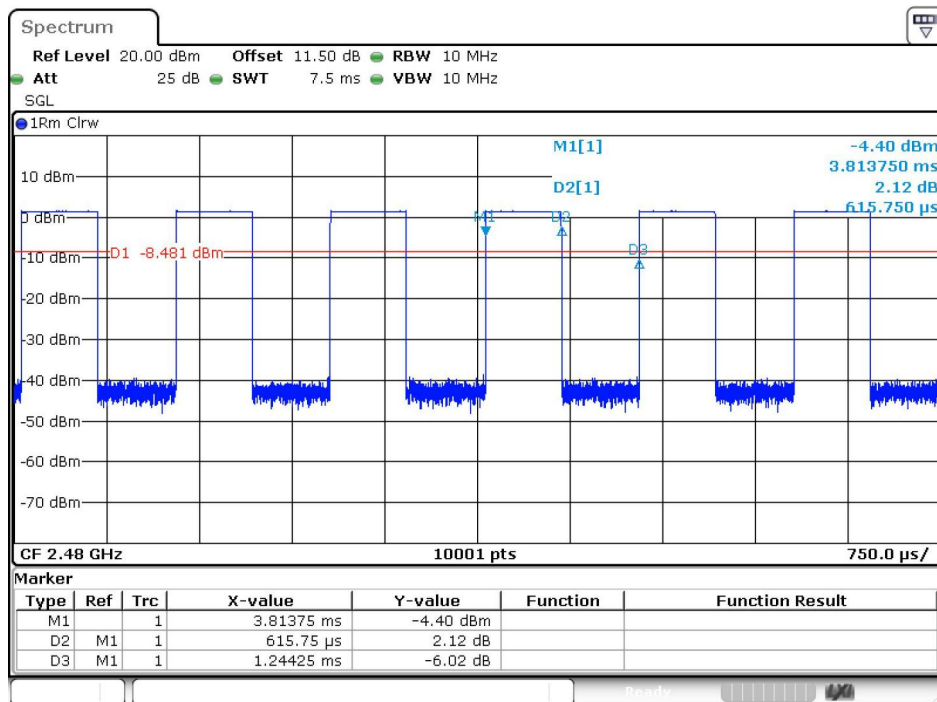
Test Graphs





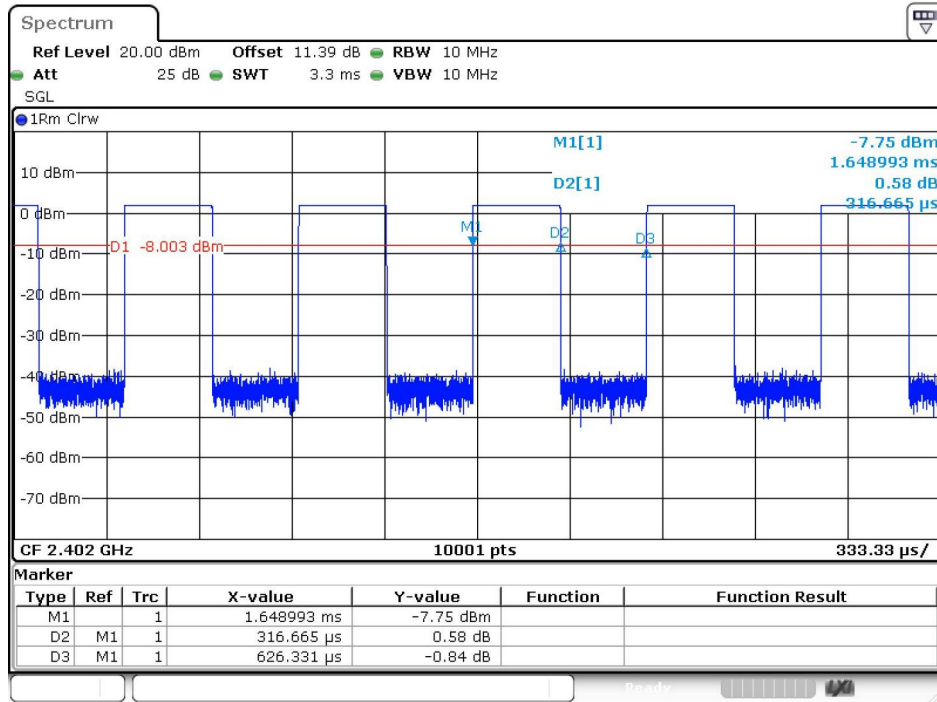
Date: 28.AUG.2024 19:03:51

BLE 1M_Channel 19



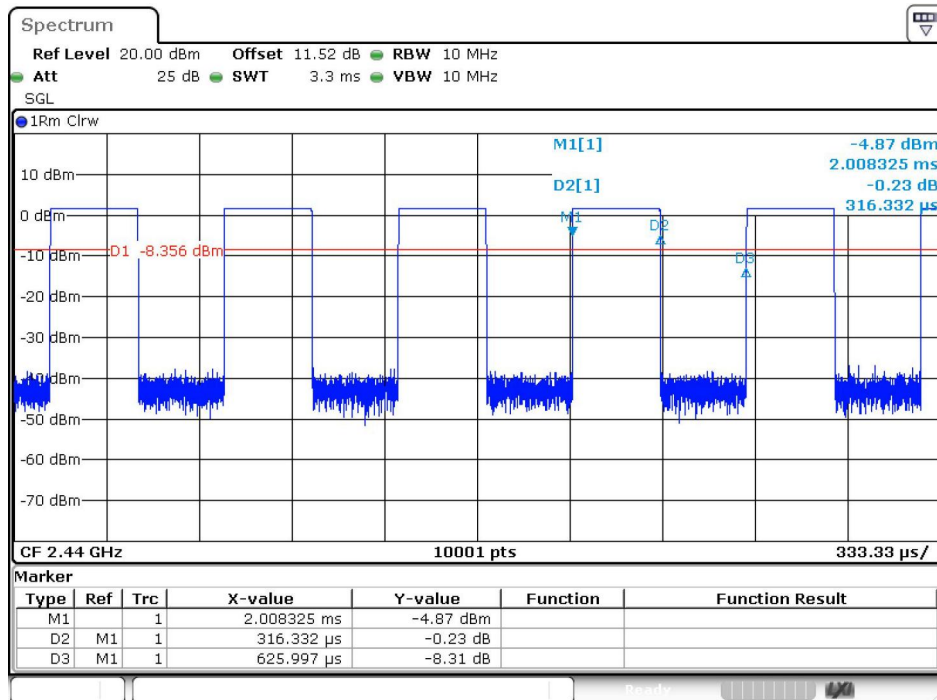
Date: 28.AUG.2024 19:06:26

BLE 1M_Channel 39



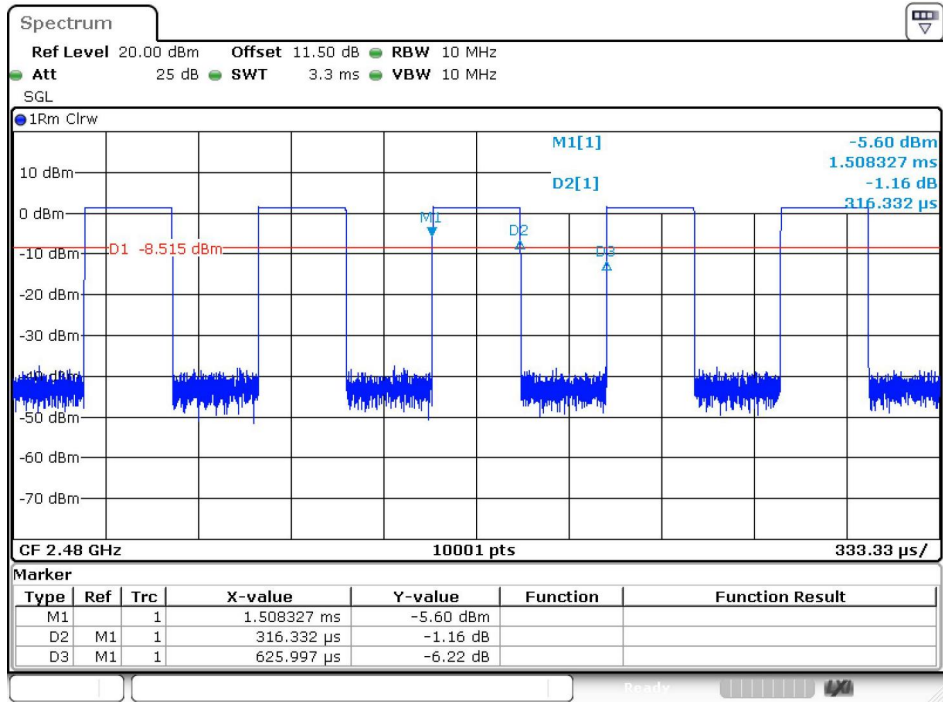
Date: 28.AUG.2024 19:09:23

BLE 2M_Channel 0



Date: 28.AUG.2024 19:14:59

BLE 2M_Channel 19



Date: 28.AUG.2024 19:17:26

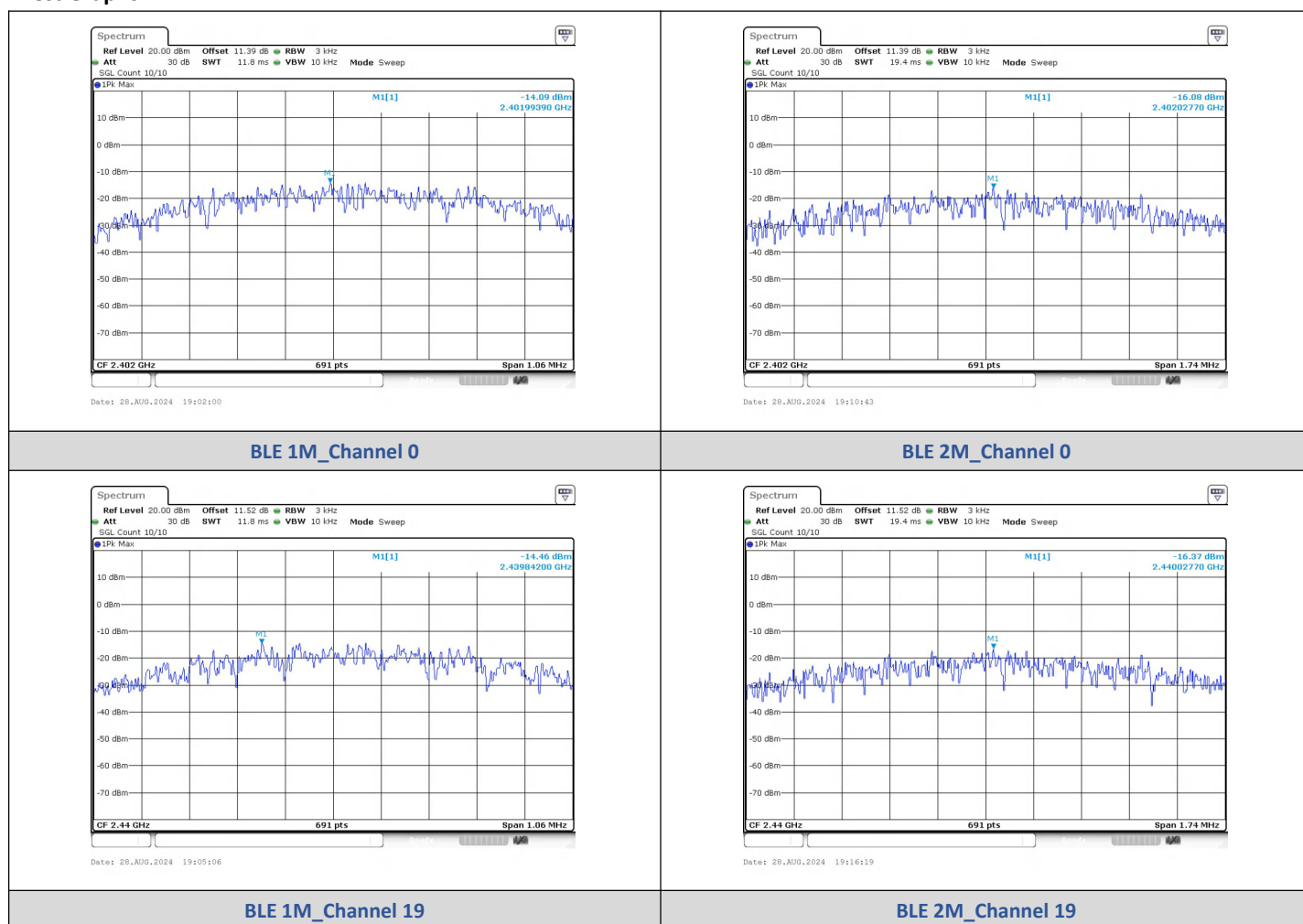
BLE 2M_Channel 39

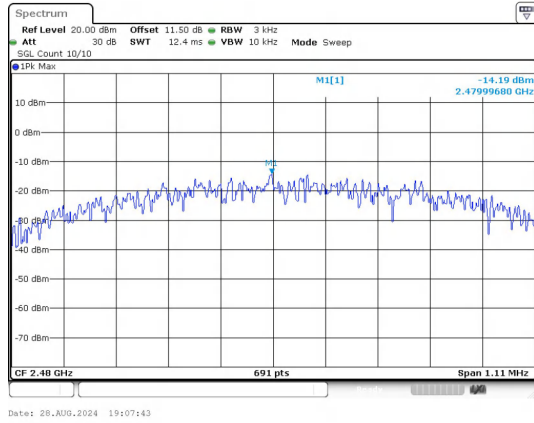
6) Power Spectral Density

Test Result

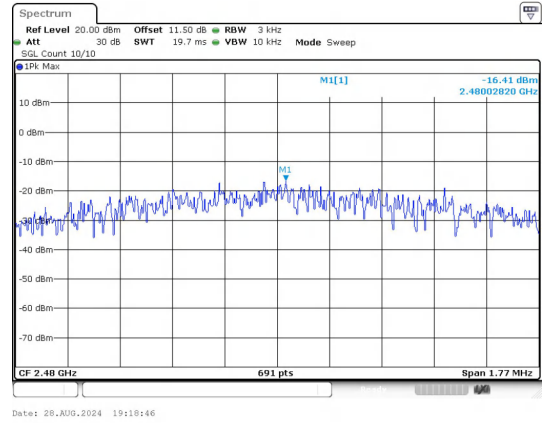
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.086	≤8	PASS
BLE 1M	19	-14.464	≤8	PASS
BLE 1M	39	-14.195	≤8	PASS
BLE 2M	0	-16.076	≤8	PASS
BLE 2M	19	-16.374	≤8	PASS
BLE 2M	39	-16.407	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39