

Appendix

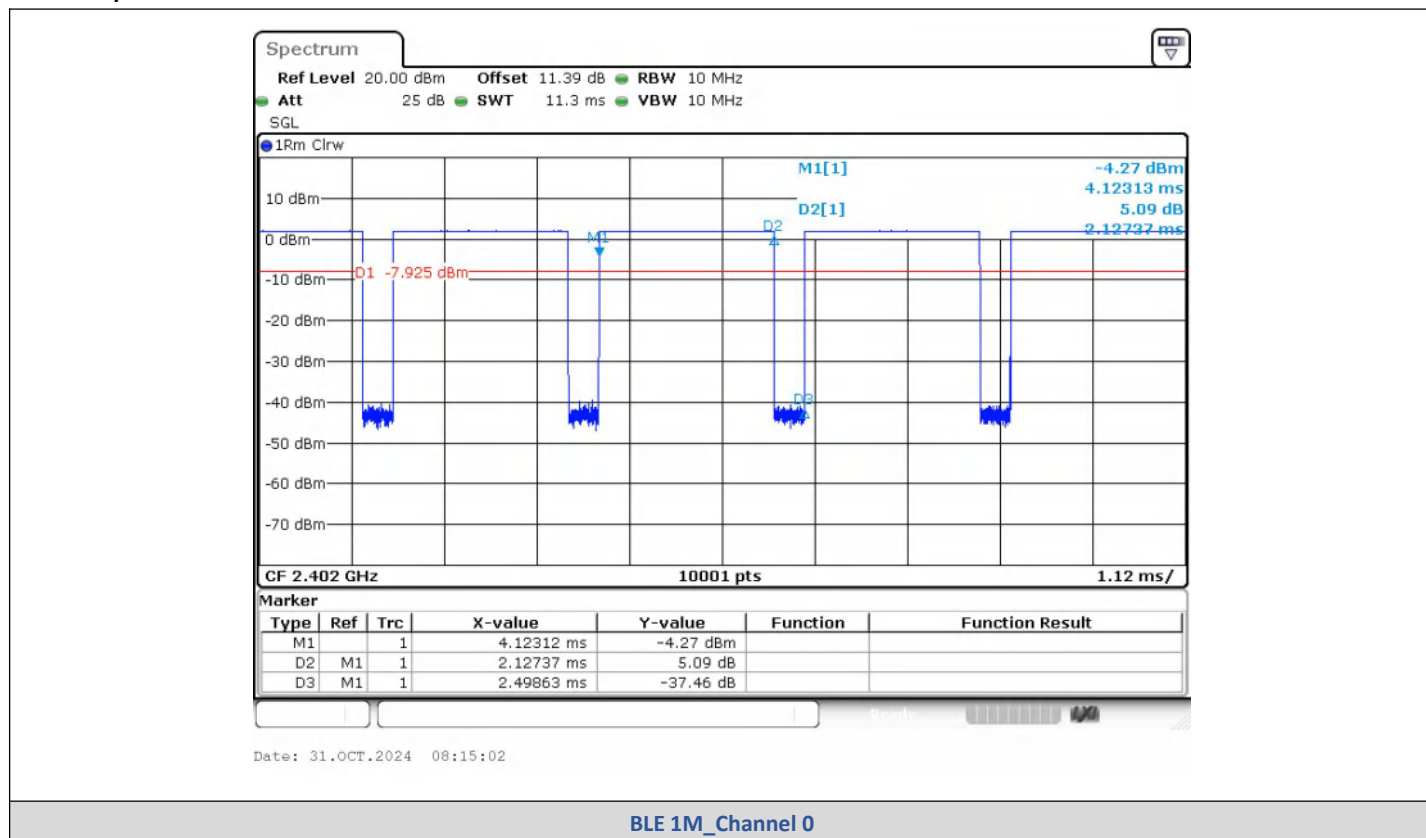
Report No.:	CISRR24101911002
FCC ID:	2BLQZ-Q11
Product Name:	Smart Earphone Watch
Model No.:	Q11
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

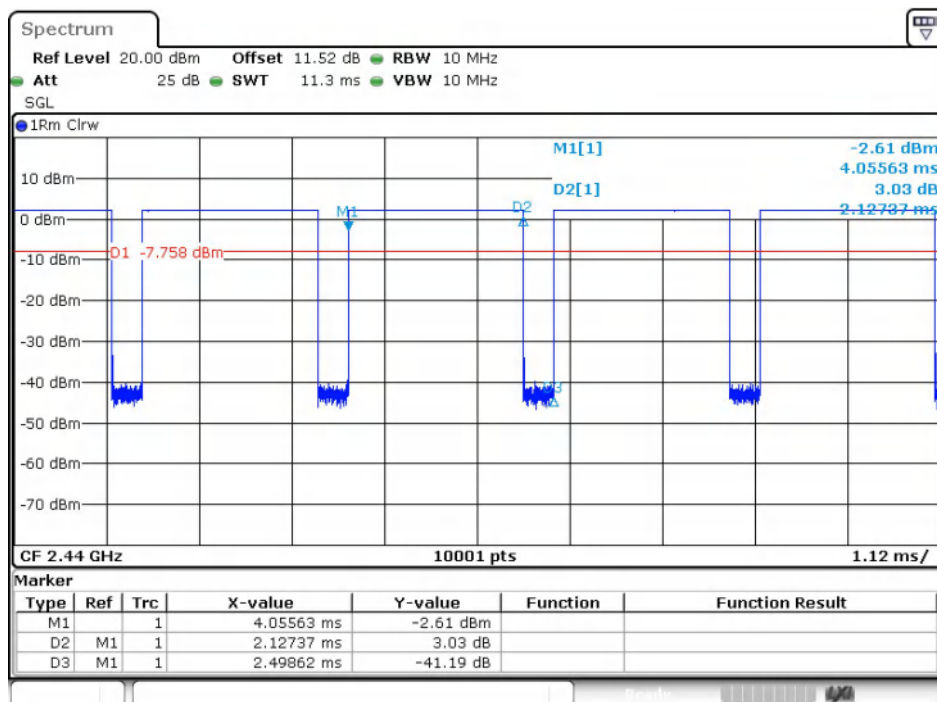
1) Duty Cycle

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	2.499	85.14	0.8514	0.6987	0.4701
	19	2.127	2.499	85.14	0.8514	0.6987	0.4701
	39	2.127	2.499	85.14	0.8514	0.6987	0.4701
BLE 2M	0	1.075	2.499	43.04	0.4304	3.6613	0.9302
	19	1.069	2.482	43.06	0.4306	3.6593	0.9355
	39	1.075	2.499	43.04	0.4304	3.6613	0.9302

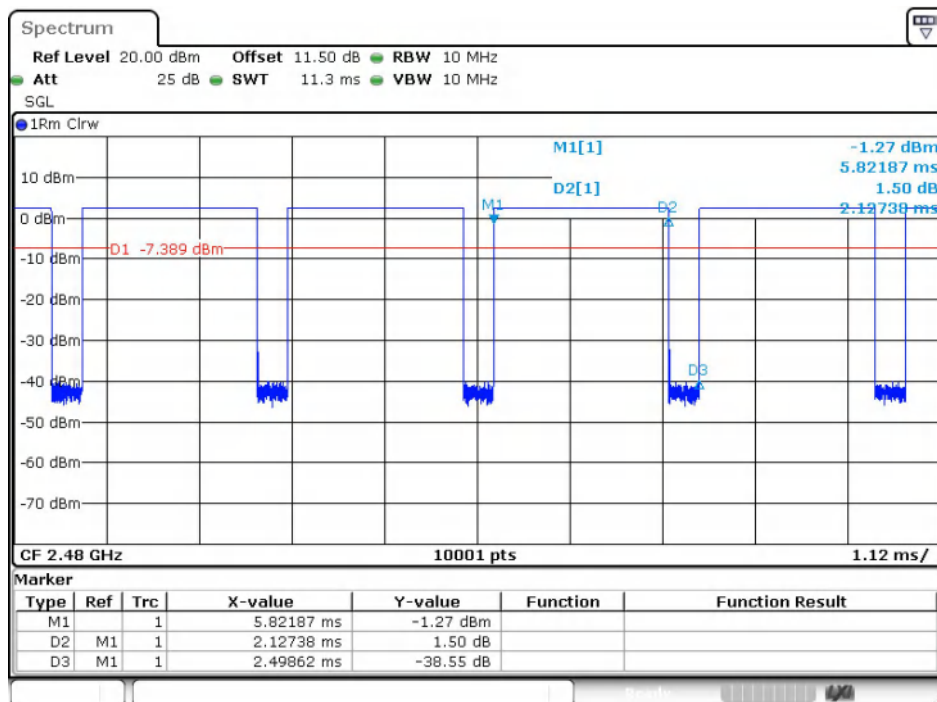
Test Graphs





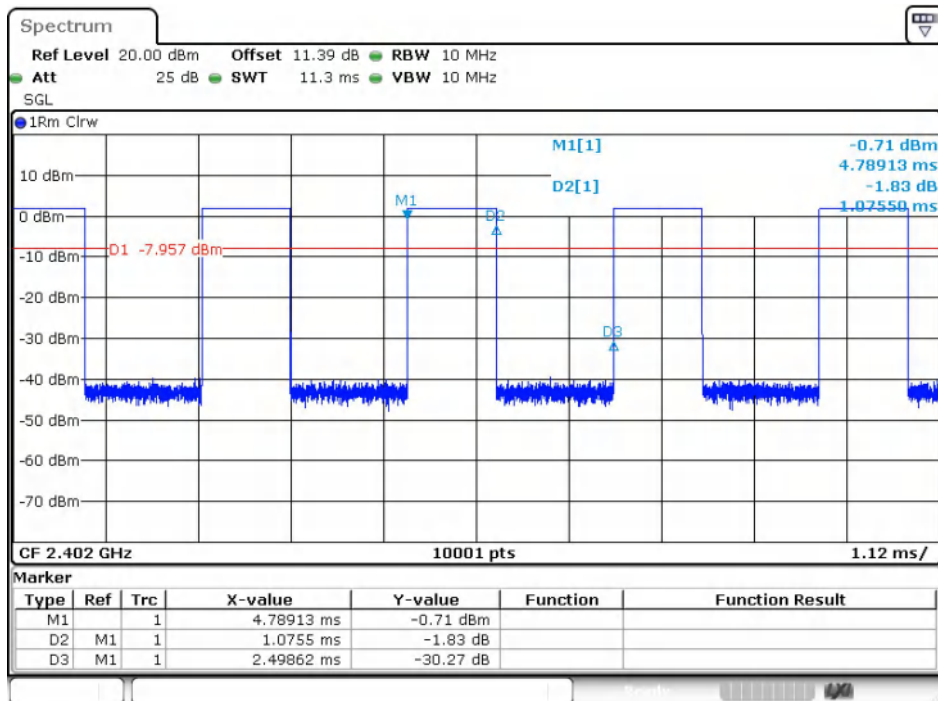
Date: 31.OCT.2024 08:17:50

BLE 1M_Channel 19



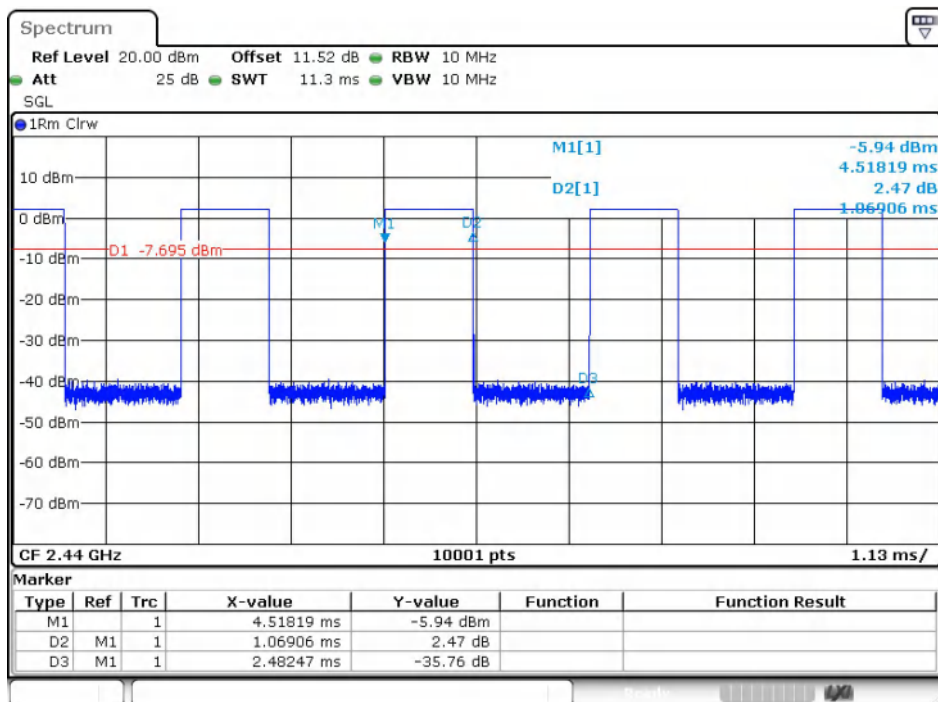
Date: 31.OCT.2024 08:21:35

BLE 1M_Channel 39



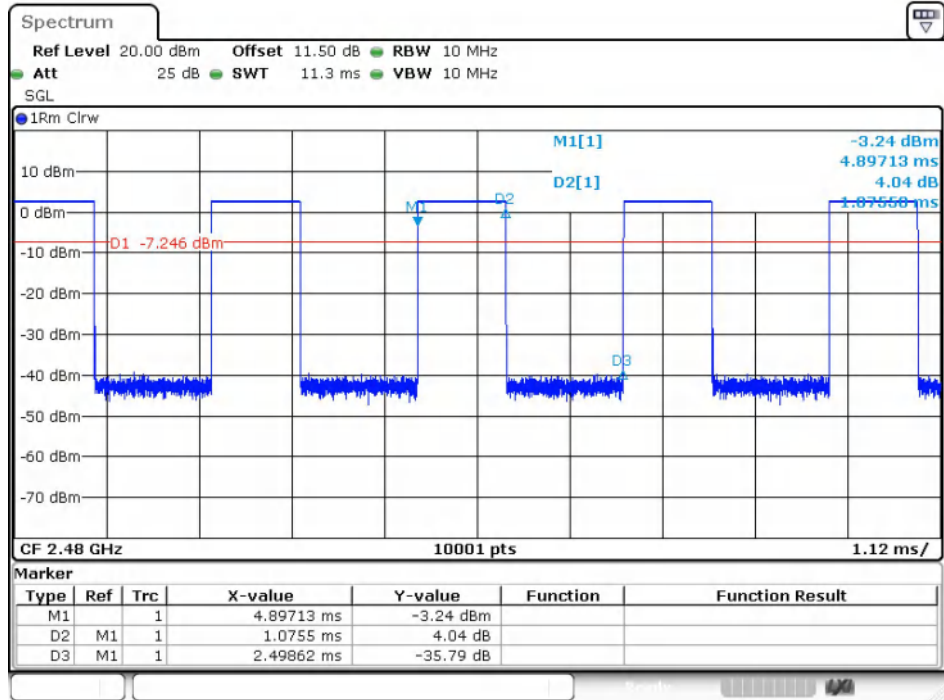
Date: 31.OCT.2024 08:24:27

BLE 2M_Channel 0



Date: 31.OCT.2024 08:27:01

BLE 2M_Channel 19



Date: 31.OCT.2024 08:29:24

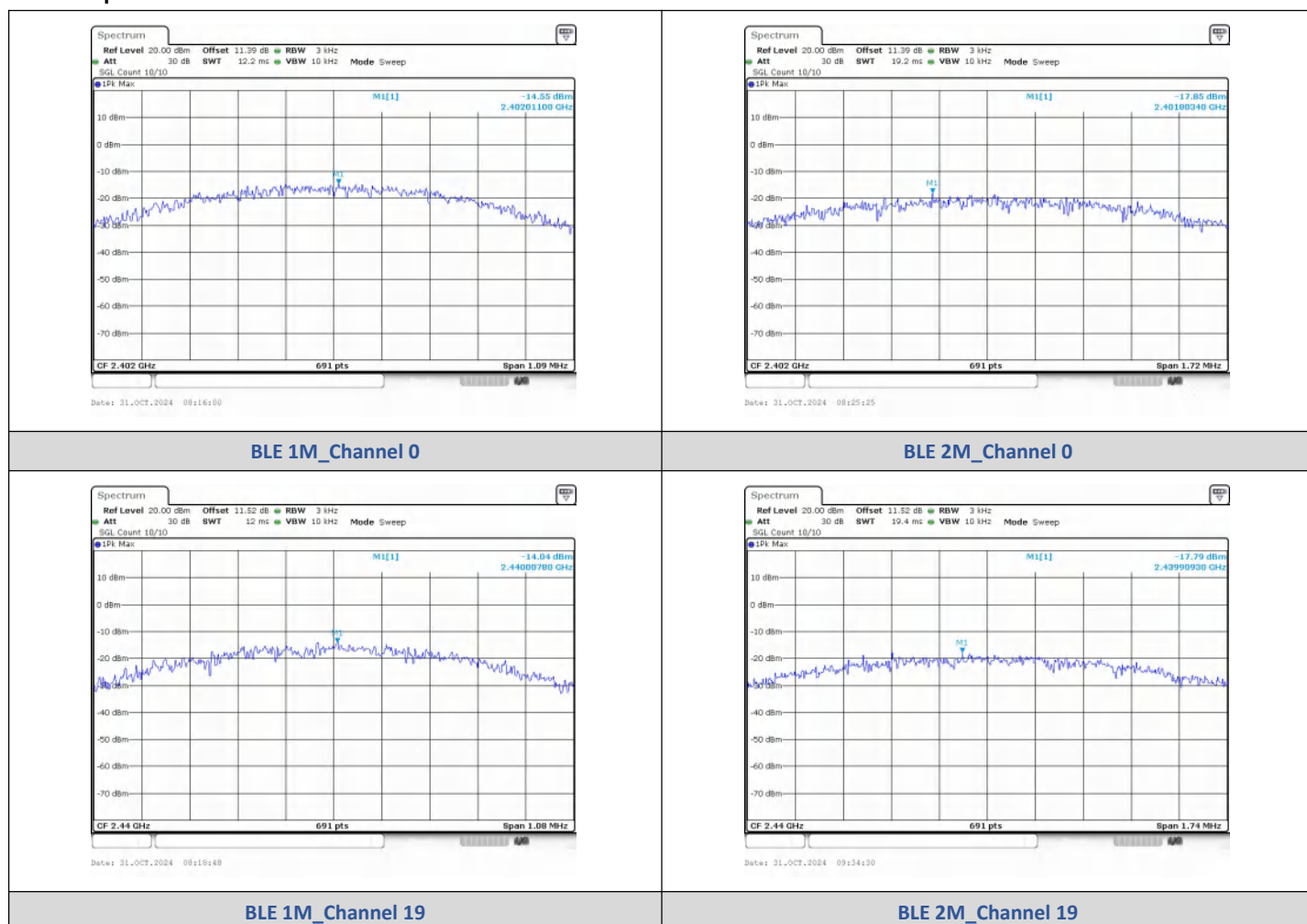
BLE 2M_Channel 39

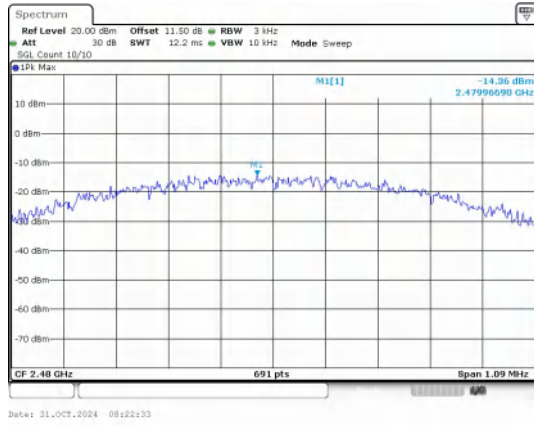
2) Power Spectral Density

Test Result

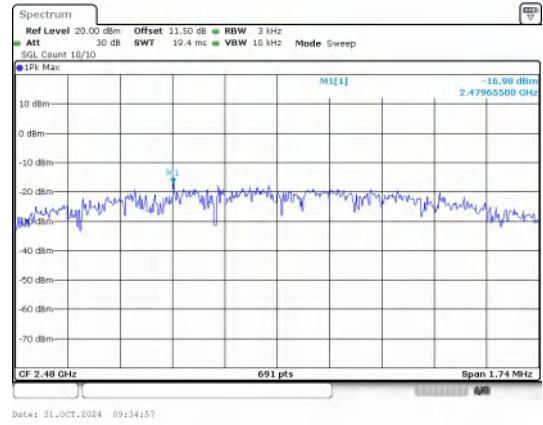
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.55	≤8	PASS
BLE 1M	19	-14.04	≤8	PASS
BLE 1M	39	-14.36	≤8	PASS
BLE 2M	0	-17.85	≤8	PASS
BLE 2M	19	-17.79	≤8	PASS
BLE 2M	39	-16.98	≤8	PASS

Test Graphs





BLE 1M_Channel 39



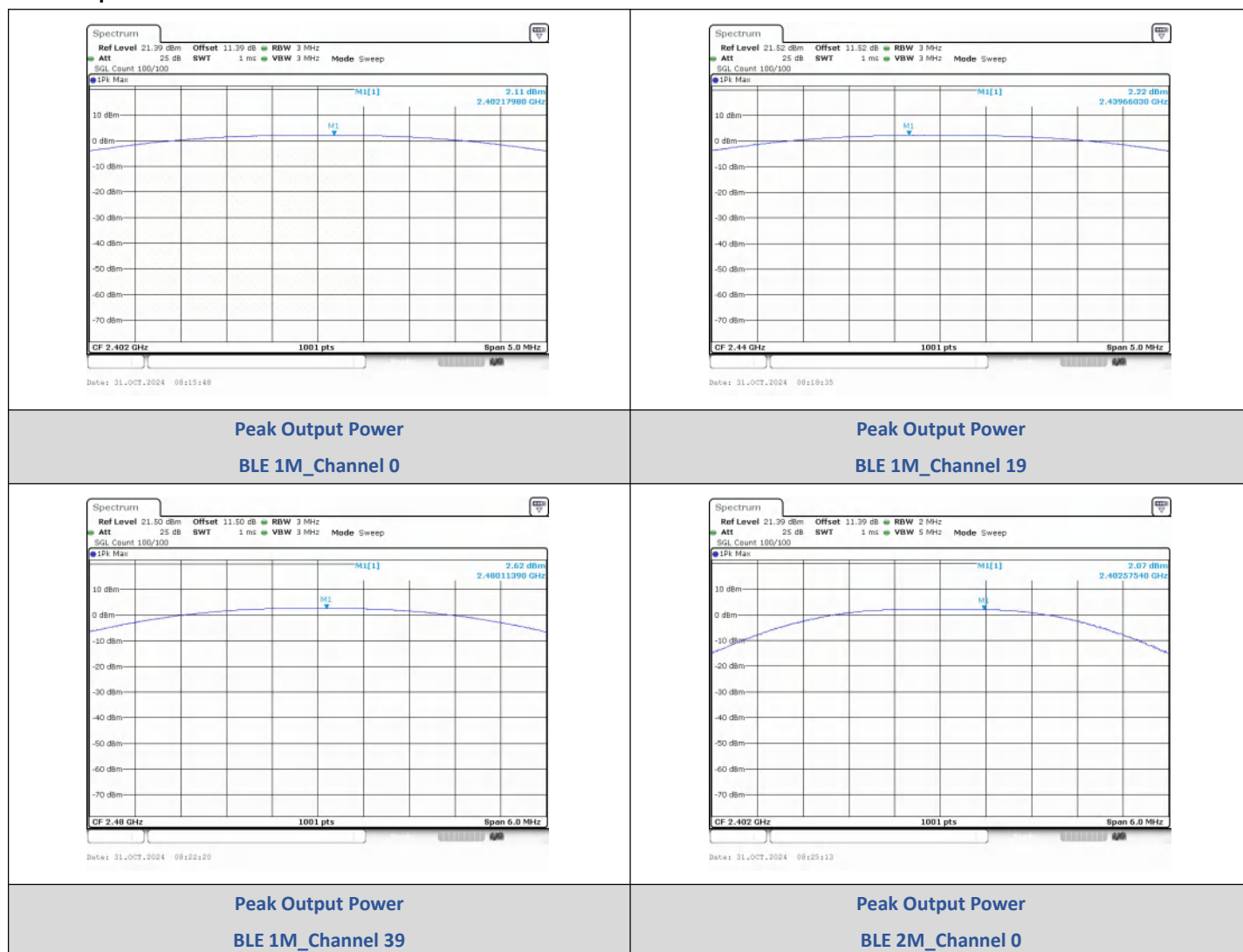
BLE 2M_Channel 39

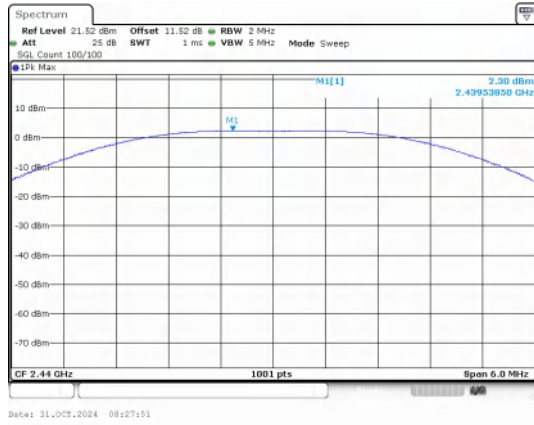
3) Conducted Output Power

Test Result

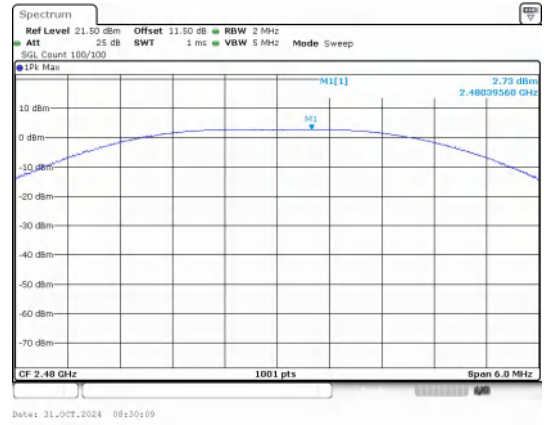
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.11	1.63	≤30	PASS
	19	2.22	1.67	≤30	PASS
	39	2.62	1.83	≤30	PASS
BLE 2M	0	2.07	1.61	≤30	PASS
	19	2.30	1.7	≤30	PASS
	39	2.73	1.88	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



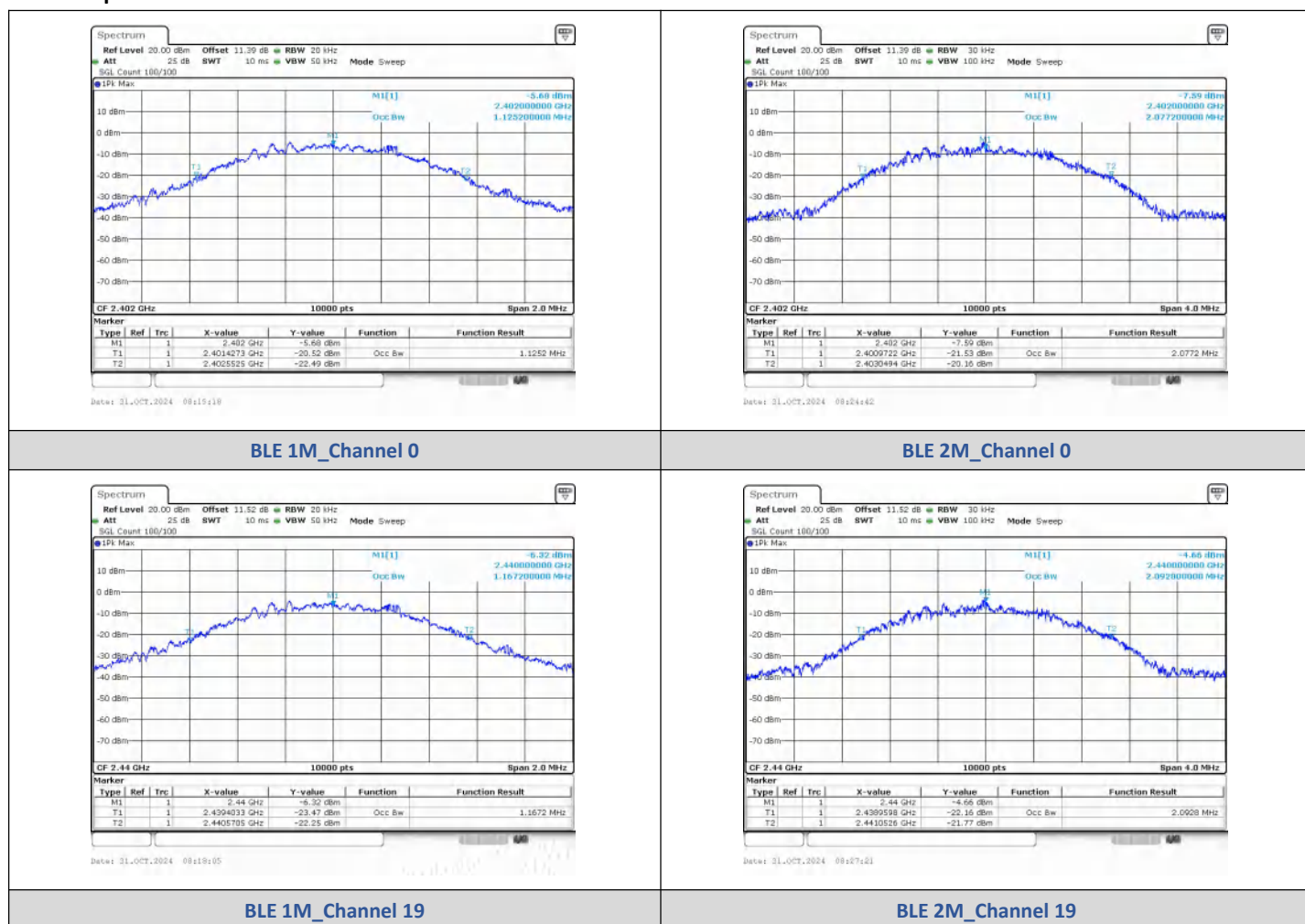
Peak Output Power
BLE 2M_Channel 39

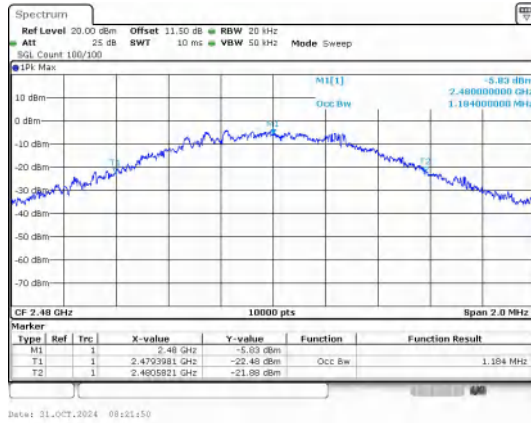
4) 99% Bandwidth

Test Result

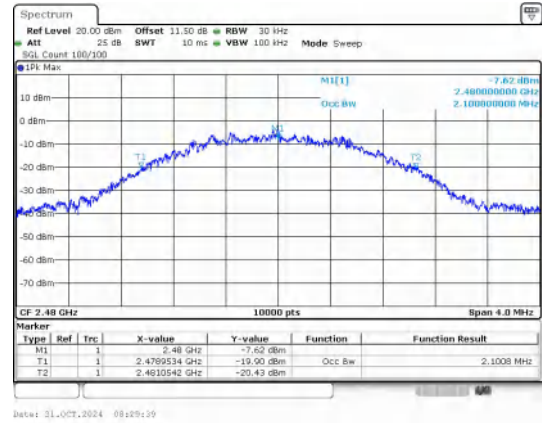
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.1252
BLE 1M	19	2440	1.1672
BLE 1M	39	2480	1.1840
BLE 2M	0	2402	2.0772
BLE 2M	19	2440	2.0928
BLE 2M	39	2480	2.1008

Test Graphs





BLE 1M_Channel 39



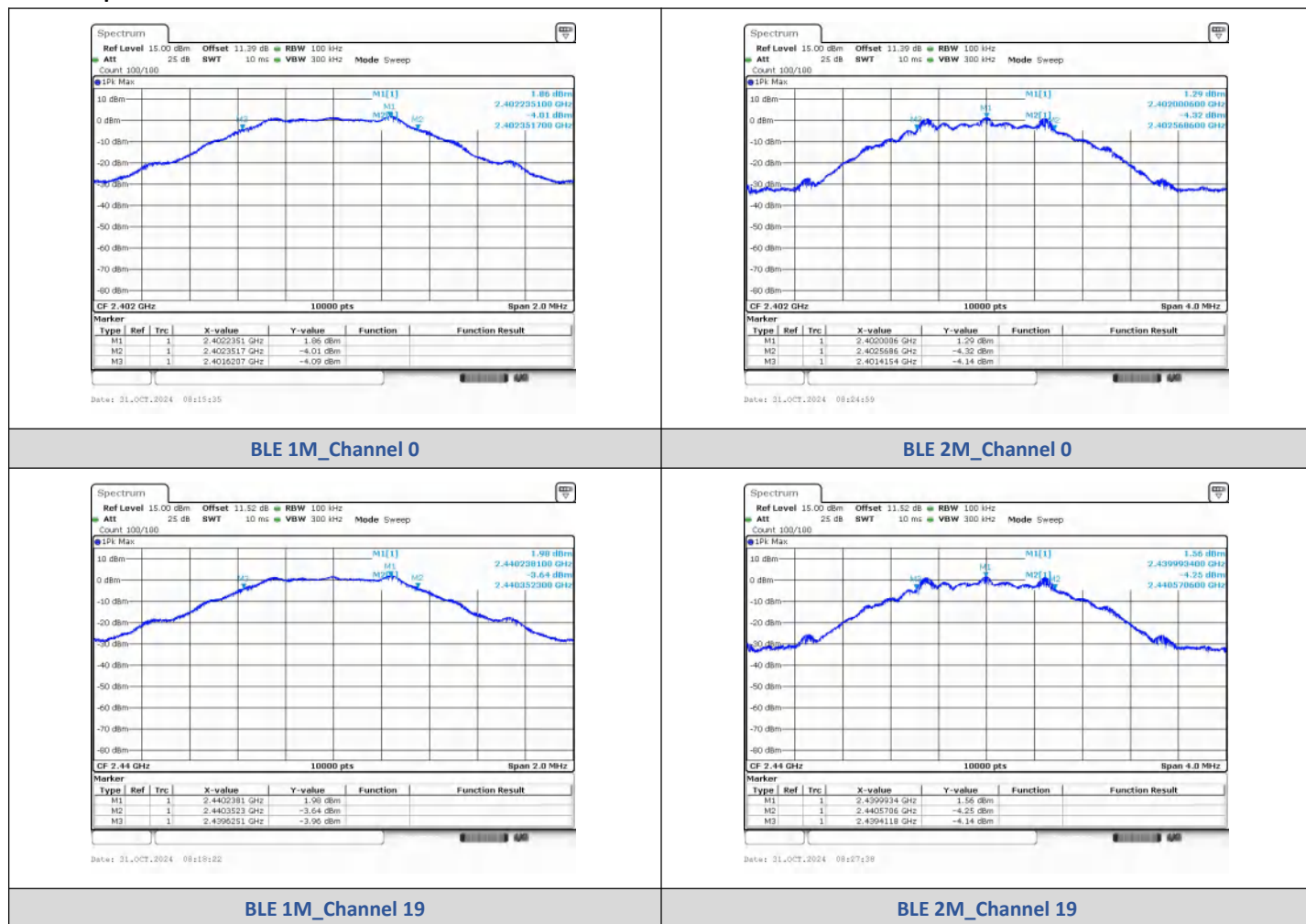
BLE 2M_Channel 39

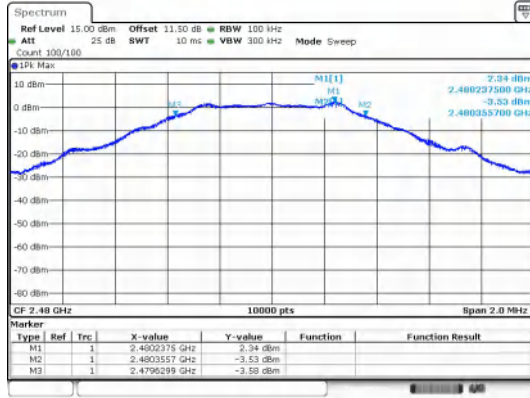
5) 6dB Bandwidth

Test Result

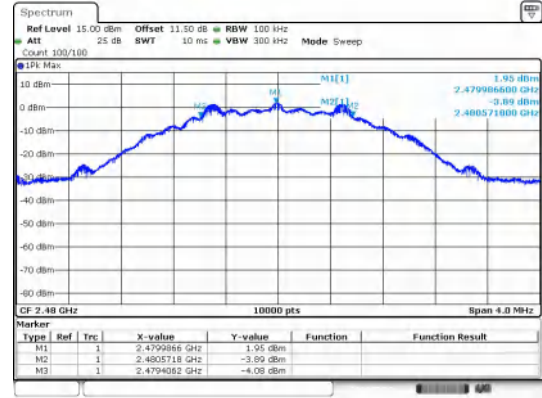
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7300	≥0.5	PASS
	19	2440	0.7200		PASS
	39	2480	0.7300		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

Test Graphs





BLE 1M_Channel 39



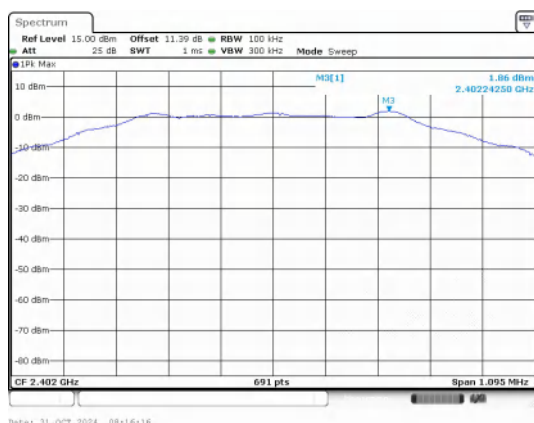
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

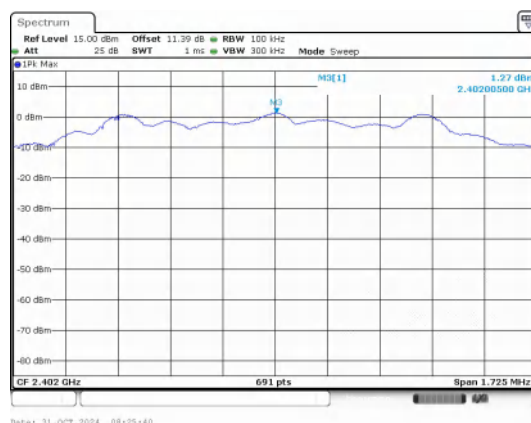
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-48.849	-18.14	-30.709	PASS
		4804.68	-43.795	-18.14	-25.655	PASS
	19	4879.59	-41.286	-18.05	-23.236	PASS
		2483.50	-50.915	-17.65	-33.265	PASS
		4960.33	-40.398	-17.65	-22.748	PASS
BLE 2M	0	2400.00	-30.897	-18.73	-12.167	PASS
		4804.68	-44.196	-18.73	-25.466	PASS
	19	4881.25	-45.769	-18.41	-27.359	PASS
		2483.50	-50.418	-18.05	-32.368	PASS
		4961.16	-41.942	-18.05	-23.892	PASS

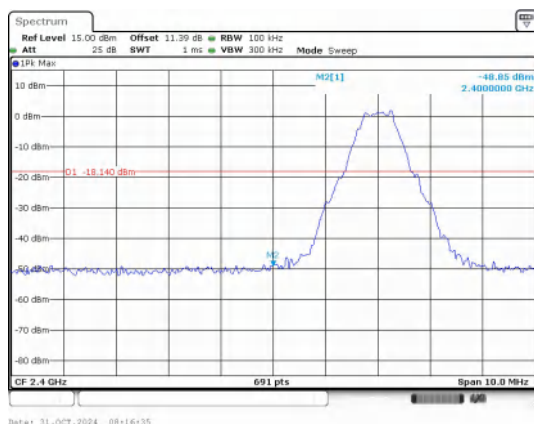
Test Graphs



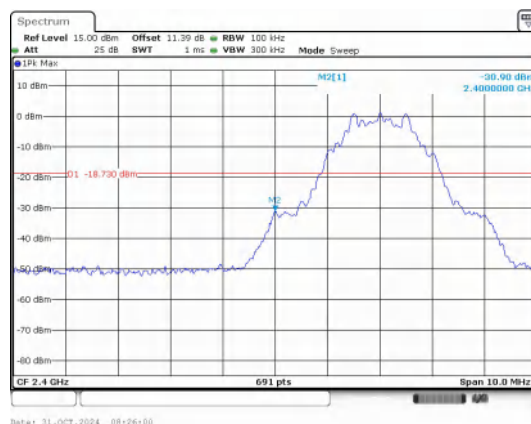
In-Band Reference Level
BLE 1M_Channel 0



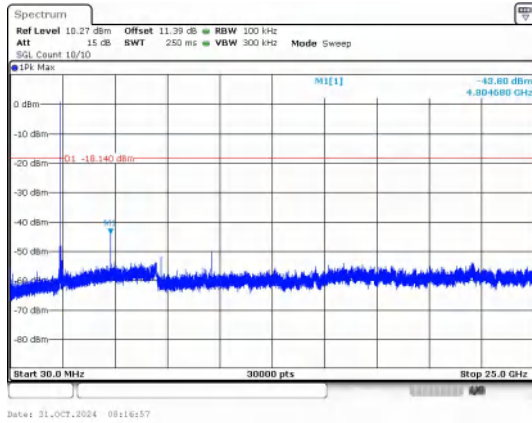
In-Band Reference Level
BLE 2M_Channel 0



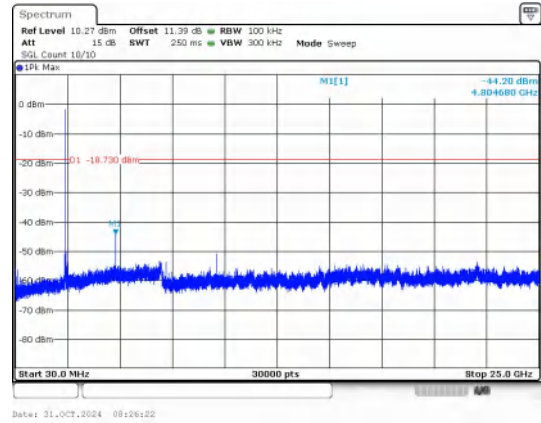
Out Of Band Emission
BLE 1M_Channel 0



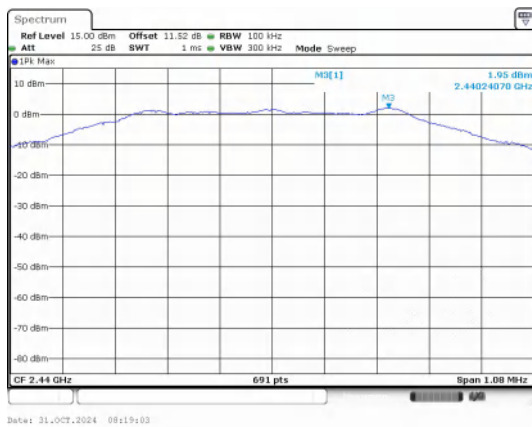
Out Of Band Emission
BLE 2M_Channel 0



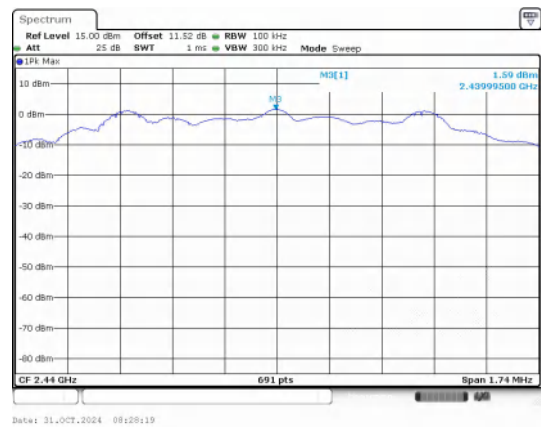
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



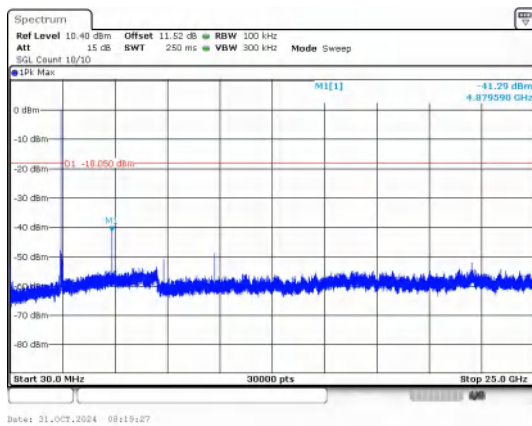
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



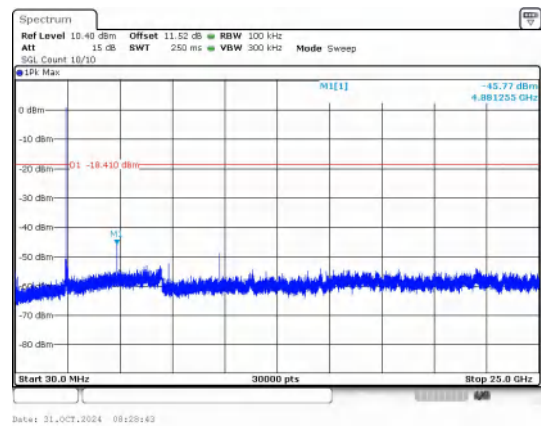
In-Band Reference Level
BLE 1M_Channel 19



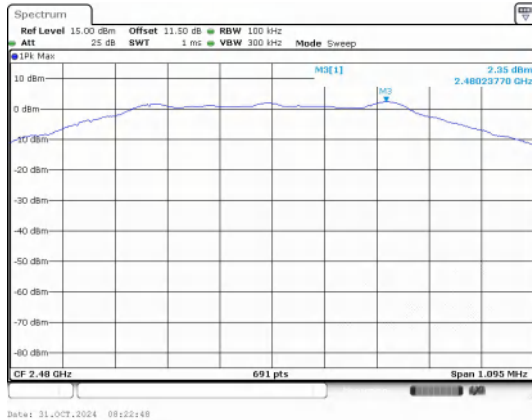
In-Band Reference Level
BLE 2M_Channel 19



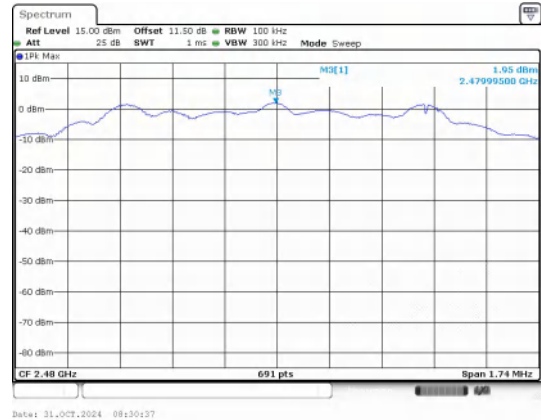
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



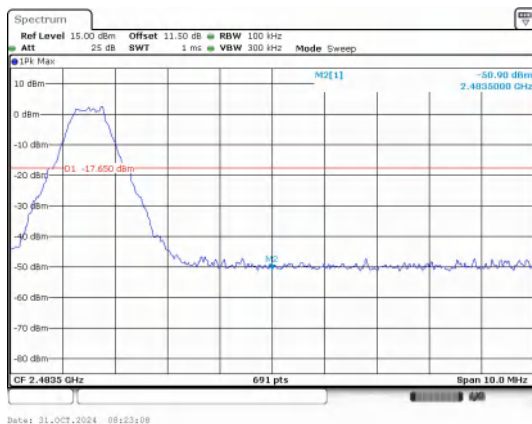
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



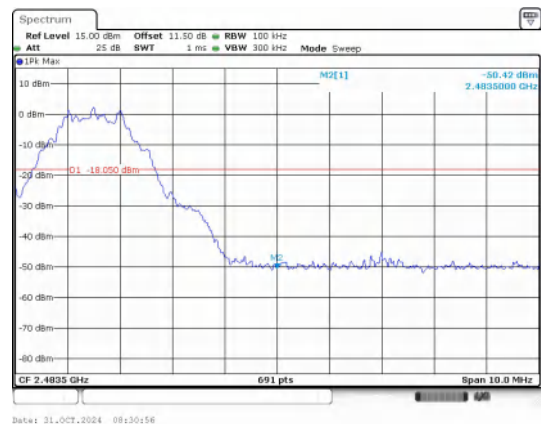
**In-Band Reference Level
BLE 1M_Channel 39**



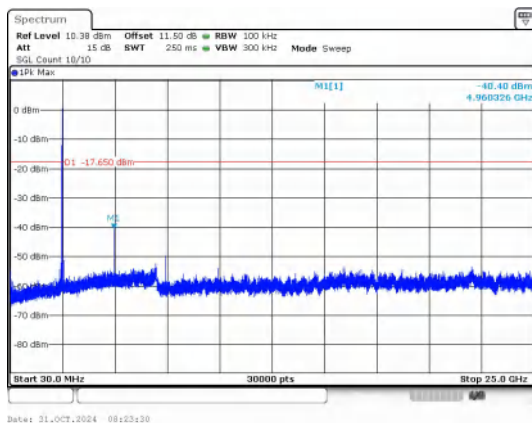
**In-Band Reference Level
BLE 2M_Channel 39**



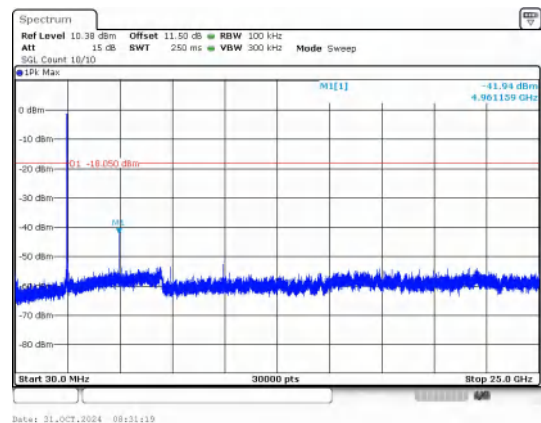
**Out Of Band Emission
BLE 1M_Channel 39**



**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**