

Appendix

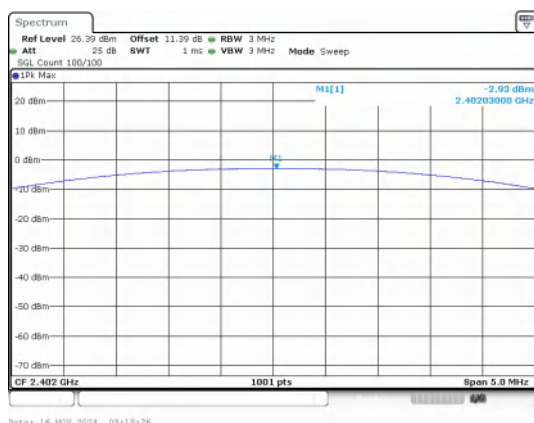
Report No.:	CISRR241115100
FCC ID:	2BGU9-YW17
Product Name:	wireless headphone
Model No.:	YW17
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Output Power

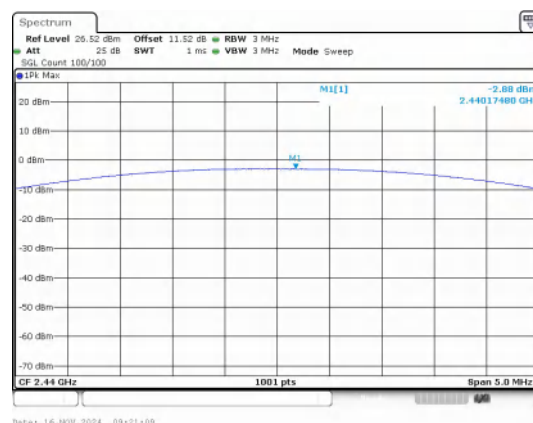
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-2.93	0.51	≤30	PASS
	19	-2.88	0.52	≤30	PASS
	39	-2.32	0.59	≤30	PASS
BLE 2M	0	-2.97	0.5	≤30	PASS
	19	-2.82	0.52	≤30	PASS
	39	-2.24	0.6	≤30	PASS

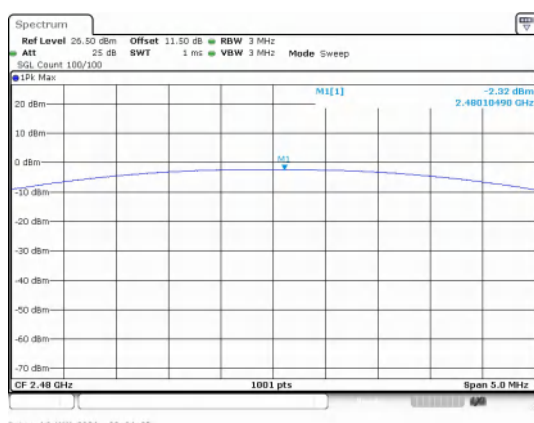
Test Graphs



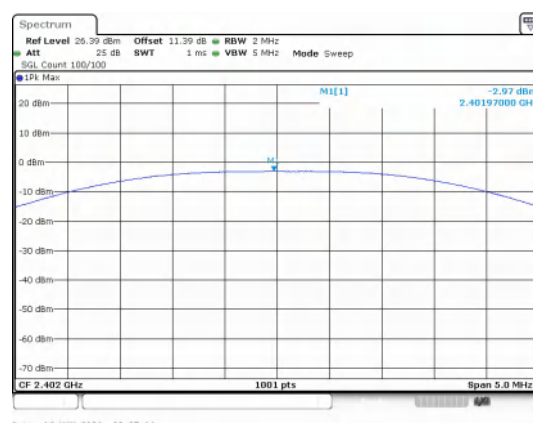
Peak Output Power
BLE 1M_Channel 0



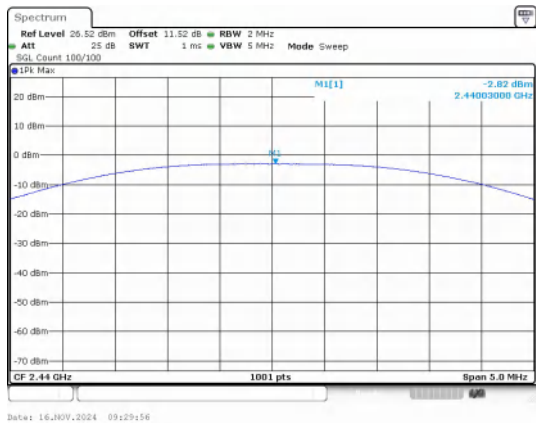
Peak Output Power
BLE 1M_Channel 19



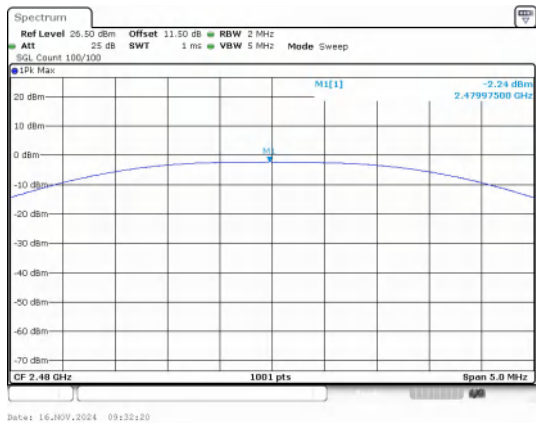
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



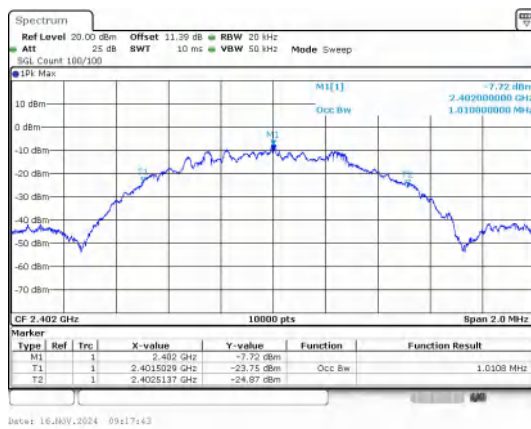
Peak Output Power
BLE 2M_Channel 39

2) 99% Bandwidth

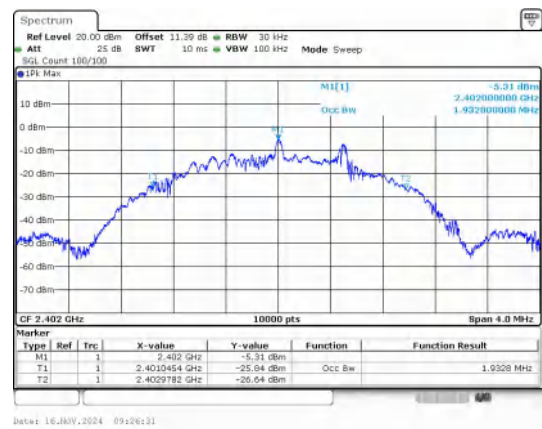
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0108
BLE 1M	19	2440	1.0110
BLE 1M	39	2480	1.0118
BLE 2M	0	2402	1.9328
BLE 2M	19	2440	1.9972
BLE 2M	39	2480	1.9336

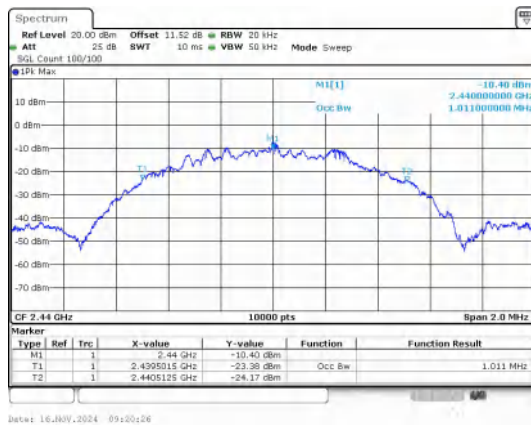
Test Graphs



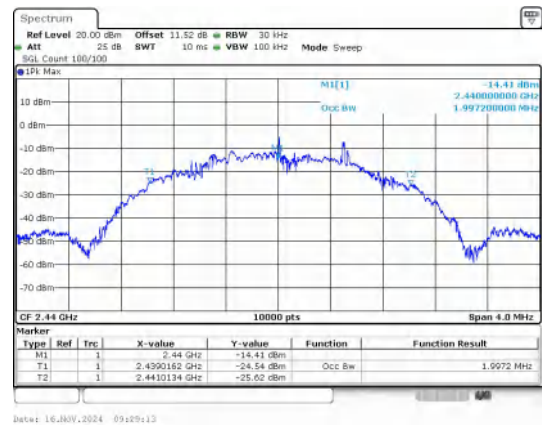
BLE 1M_Channel 0



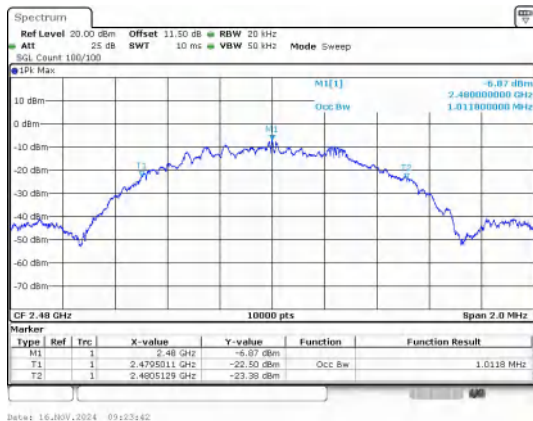
BLE 2M_Channel 0



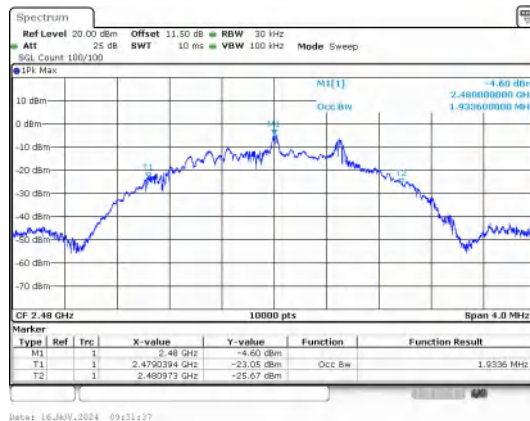
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



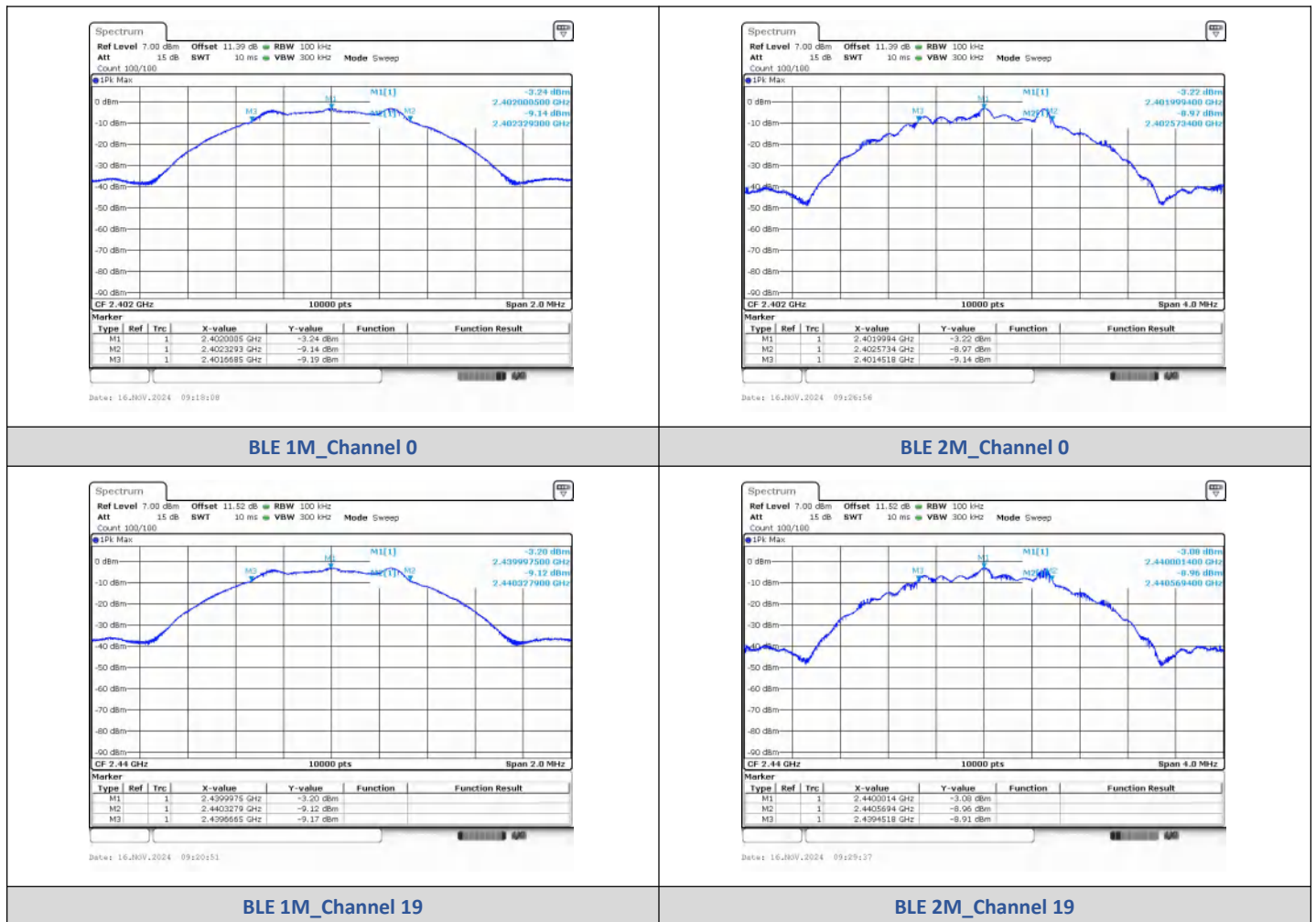
BLE 2M_Channel 39

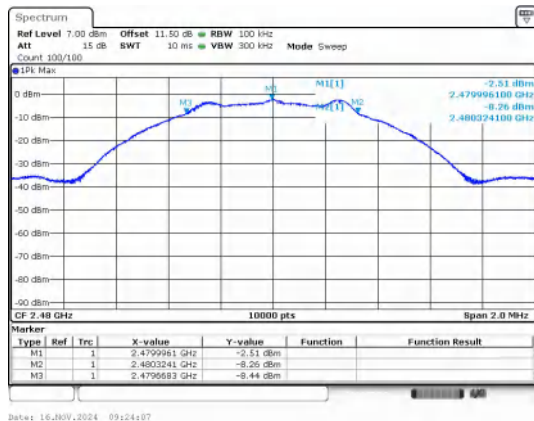
3) 6dB Bandwidth

Test Result

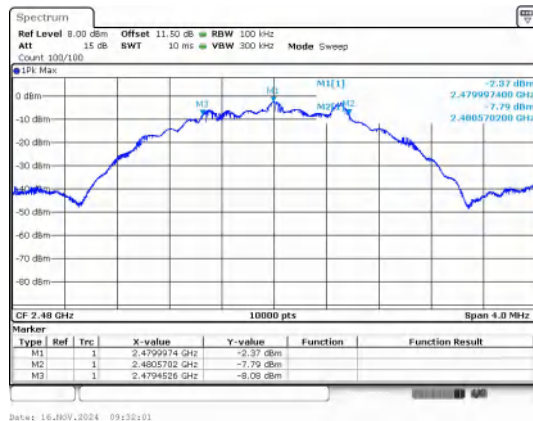
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6500		PASS
BLE 2M	0	2402	1.120		PASS
	19	2440	1.120		PASS
	39	2480	1.120		PASS

Test Graphs





BLE 1M_Channel 39



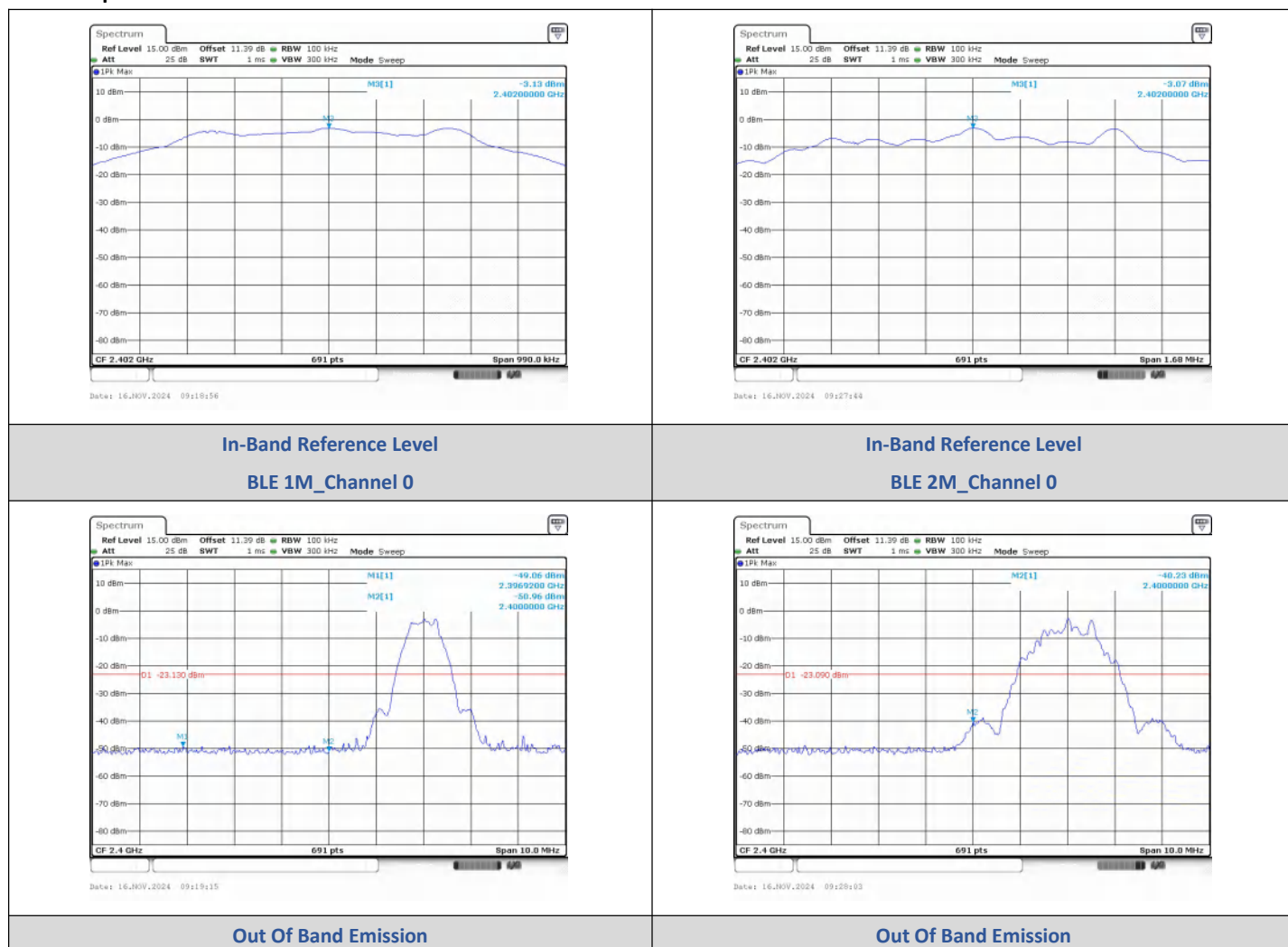
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

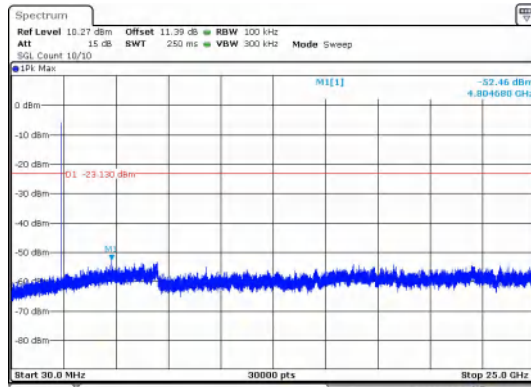
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2396.92	-49.063	-23.13	-25.933	PASS
		2400.00	-50.960	-23.13	-27.830	PASS
		4804.70	-52.457	-23.13	-29.327	PASS
	19	4879.59	-48.816	-23.06	-25.756	PASS
	39	2483.50	-50.620	-22.54	-28.080	PASS
		4960.33	-52.906	-22.54	-30.366	PASS
BLE 2M	0	2400.00	-40.230	-23.09	-17.140	PASS
		4803.85	-51.864	-23.09	-28.774	PASS
	19	4878.76	-51.405	-22.91	-28.495	PASS
	39	2483.50	-49.950	-22.35	-27.600	PASS
		6992.05	-53.286	-22.35	-30.936	PASS

Test Graphs

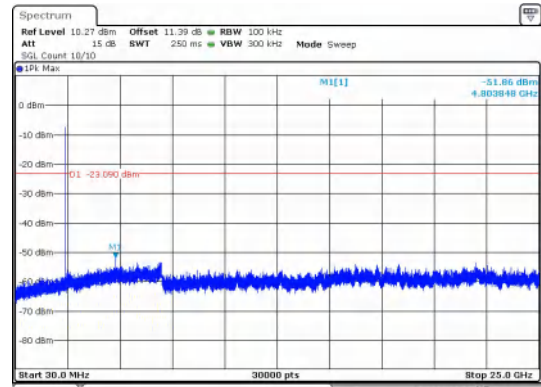


BLE 1M_Channel 0



Date: 16.NOV.2024 09:19:37

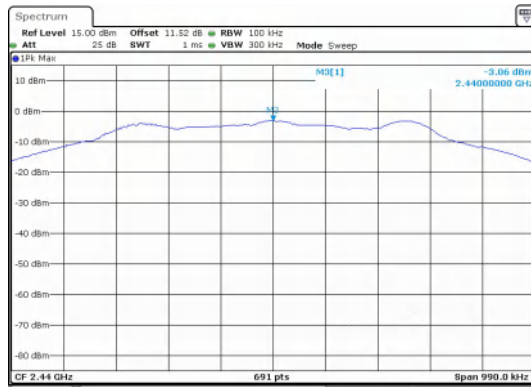
BLE 2M_Channel 0



Date: 16.NOV.2024 09:20:26

30.0 MHz - 25000.0 MHz

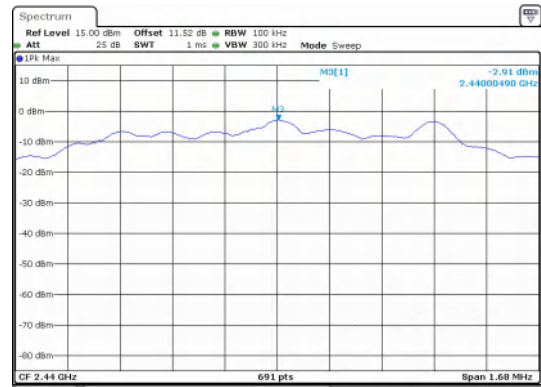
BLE 1M_Channel 0



Date: 16.NOV.2024 09:21:39

30.0 MHz - 25000.0 MHz

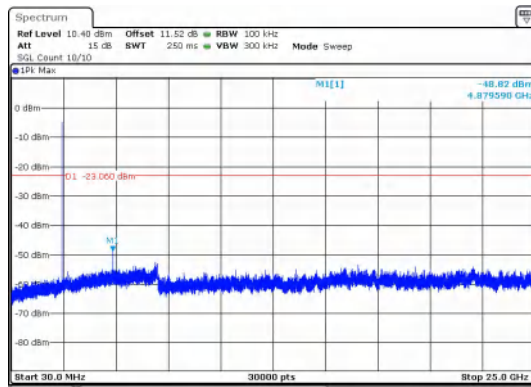
BLE 2M_Channel 0



Date: 16.NOV.2024 09:30:26

In-Band Reference Level

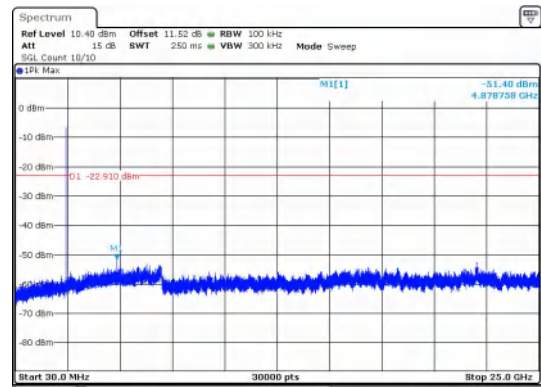
BLE 1M_Channel 19



Date: 16.NOV.2024 09:32:02

In-Band Reference Level

BLE 2M_Channel 19



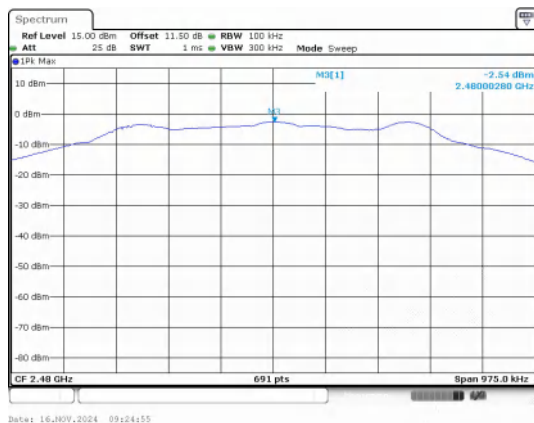
Date: 16.NOV.2024 09:30:50

30.0 MHz - 25000.0 MHz

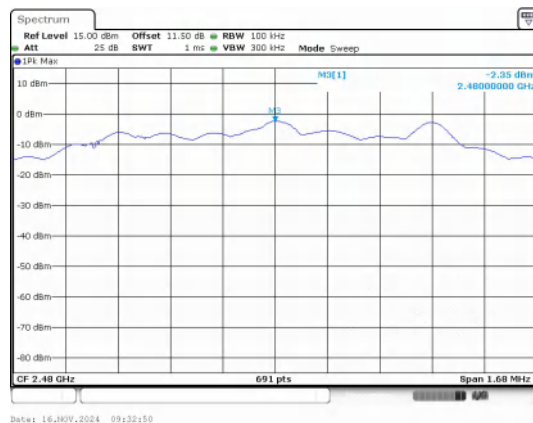
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

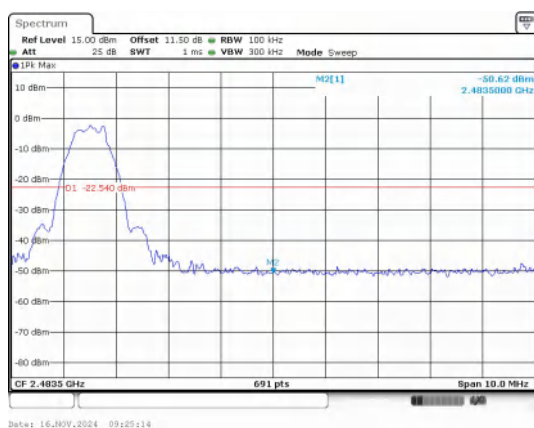
BLE 2M_Channel 19



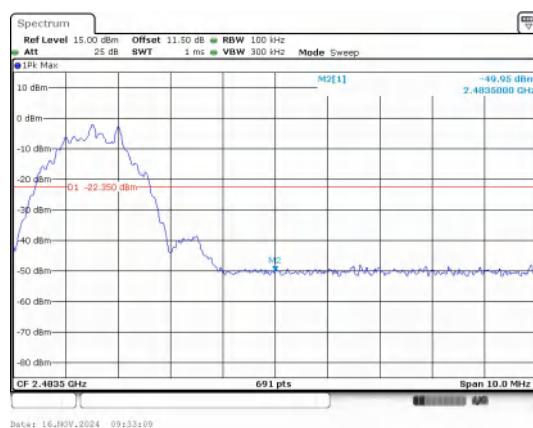
**In-Band Reference Level
BLE 1M_Channel 39**



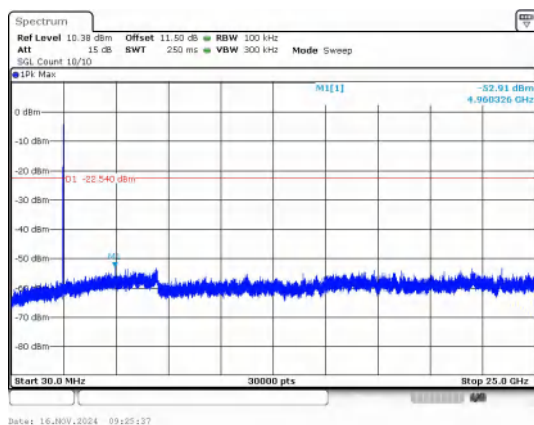
**In-Band Reference Level
BLE 2M_Channel 39**



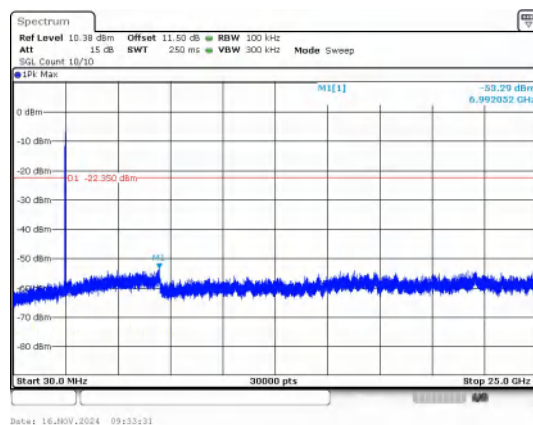
**Out Of Band Emission
BLE 1M_Channel 39**



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



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



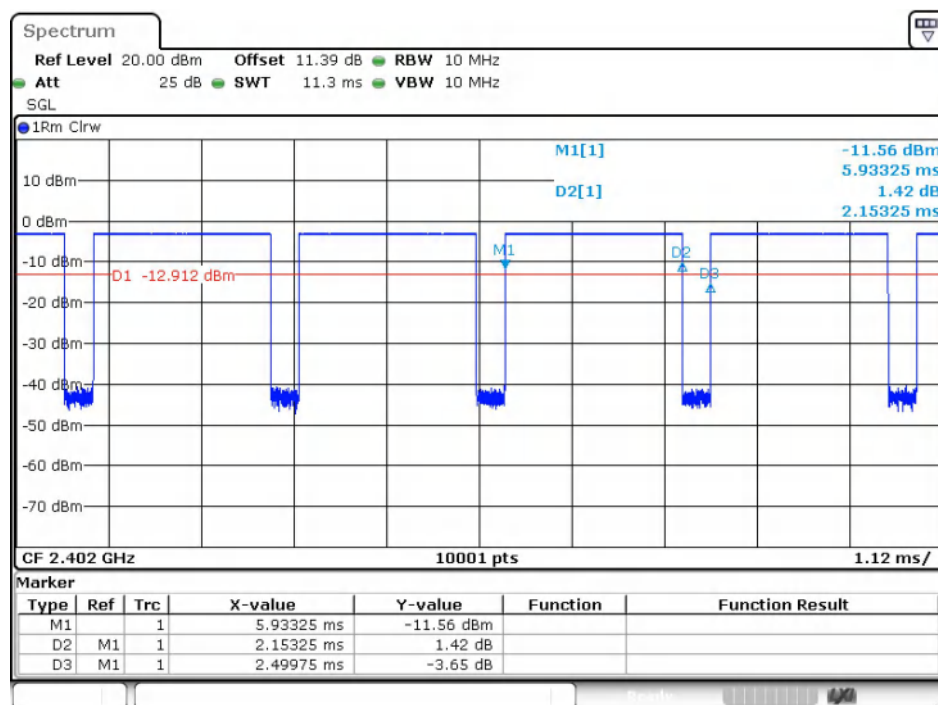
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39**

5) Duty Cycle

Test Result

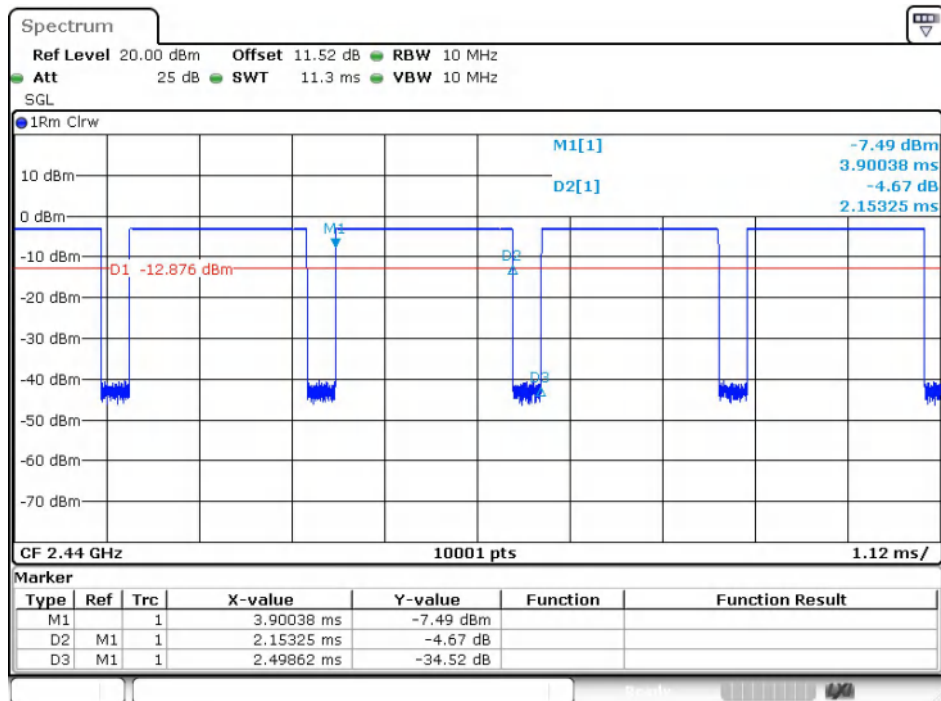
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.153	2.500	86.14	0.8614	0.648	0.4645
	19	2.153	2.499	86.18	0.8618	0.6459	0.4645
	39	2.153	2.499	86.18	0.8618	0.6459	0.4645
BLE 2M	0	1.097	1.874	58.54	0.5854	2.3255	0.9116
	19	1.097	1.874	58.54	0.5854	2.3255	0.9116
	39	1.097	1.874	58.54	0.5854	2.3255	0.9116

Test Graphs



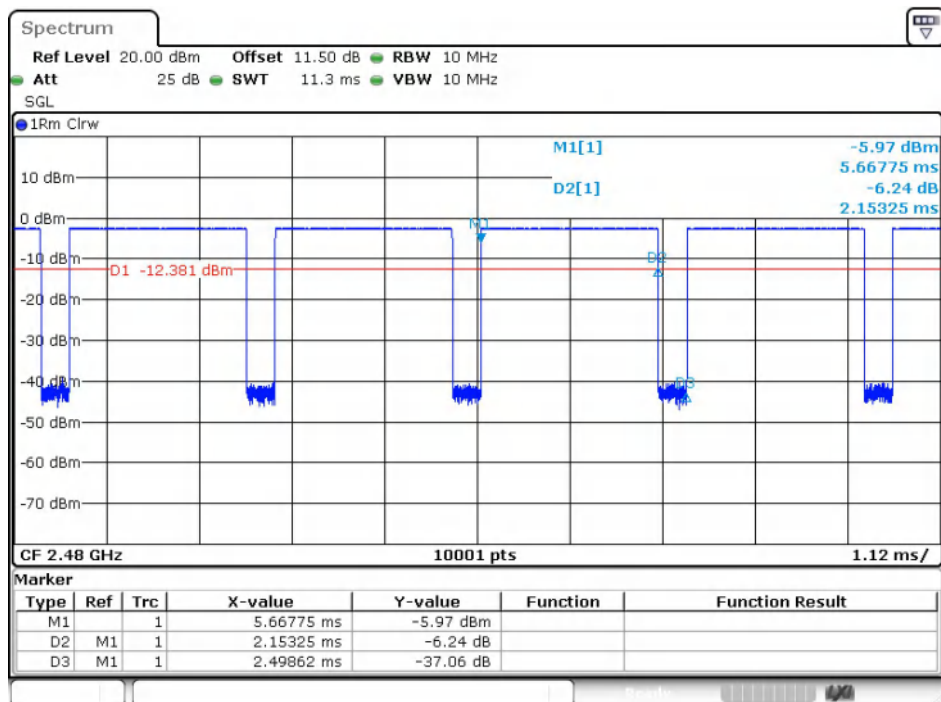
Date: 16.NOV.2024 09:17:23

BLE 1M_Channel 0



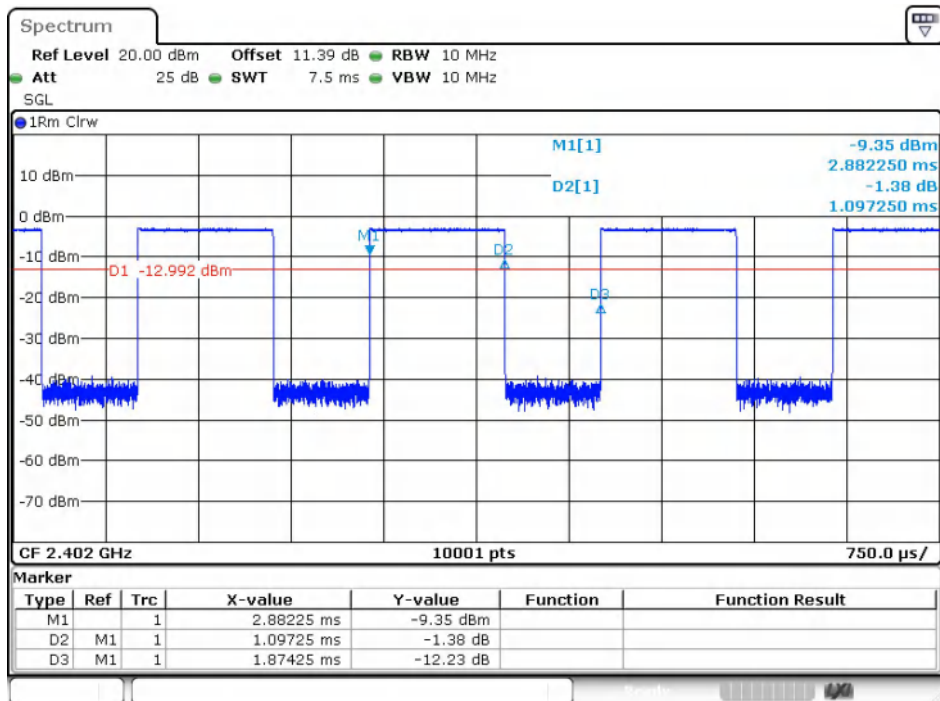
Date: 16,NOV,2024 09:20:10

BLE 1M_Channel 19



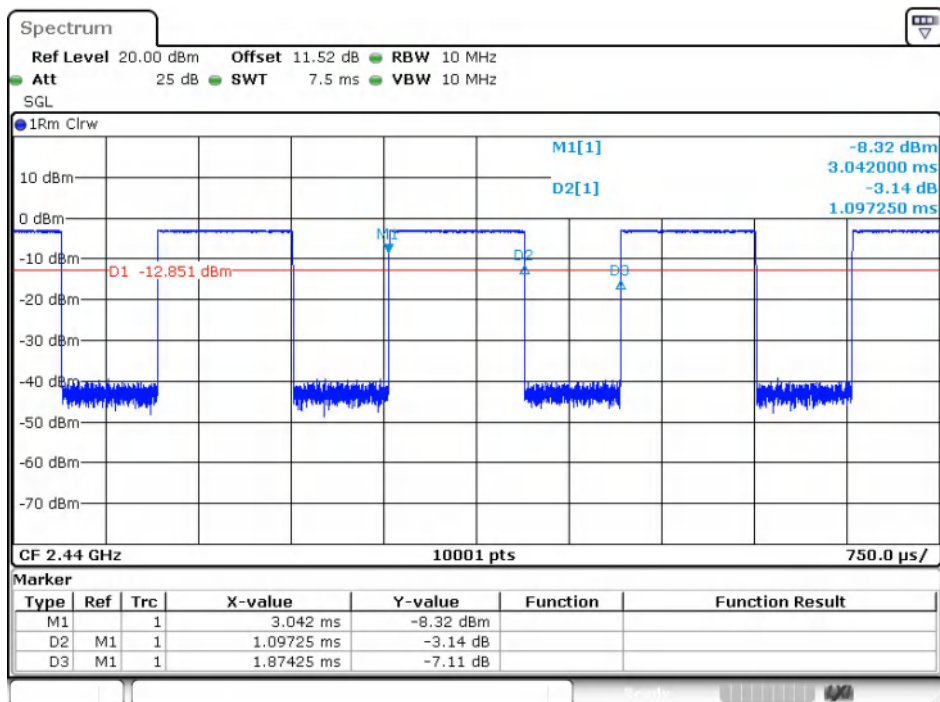
Date: 16,NOV,2024 09:23:26

BLE 1M_Channel 39



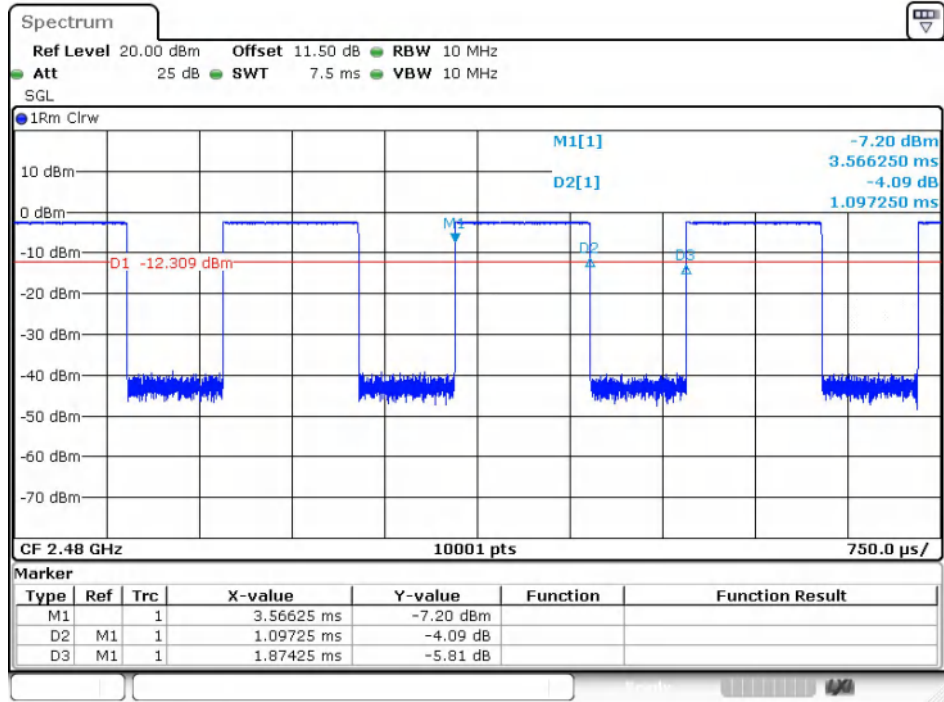
Date: 16,NOV,2024 09:26:15

BLE 2M_Channel 0



Date: 16,NOV,2024 09:28:56

BLE 2M_Channel 19



Date: 16.NOV.2024 09:31:20

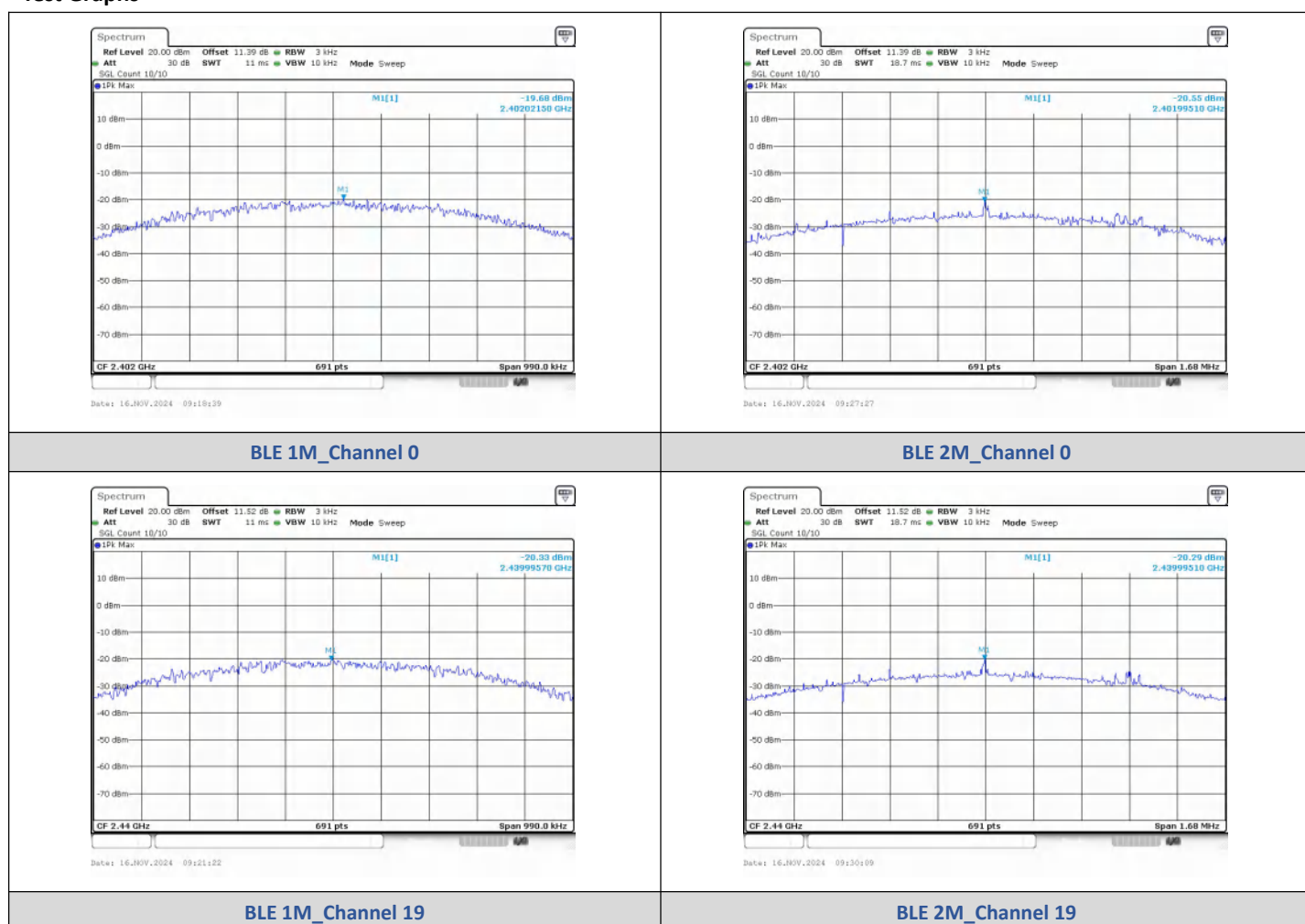
BLE 2M_Channel 39

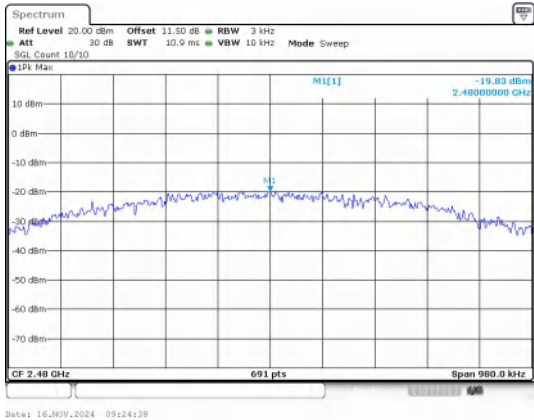
6) Power Spectral Density

Test Result

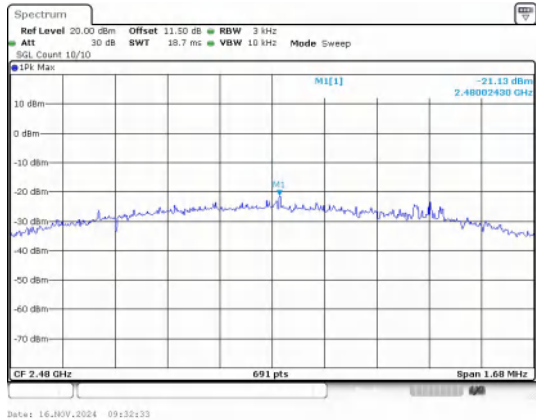
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.680	≤8	PASS
BLE 1M	19	-20.330	≤8	PASS
BLE 1M	39	-19.830	≤8	PASS
BLE 2M	0	-20.550	≤8	PASS
BLE 2M	19	-20.290	≤8	PASS
BLE 2M	39	-21.130	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39