Appendix A

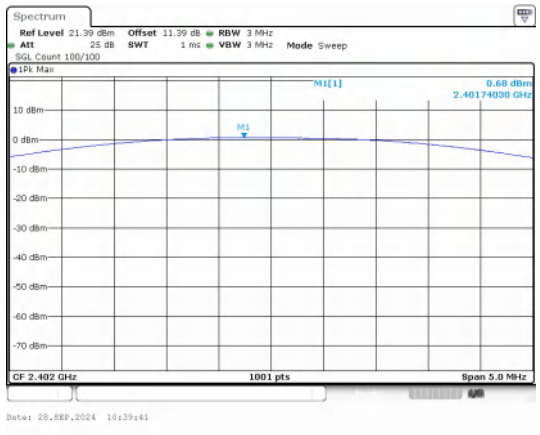
Report No.:	CISRR240926261
FCC ID:	2BGU9-YW15
Product Name:	wireless headphone
Model No.:	YW15
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Conducted Output Power

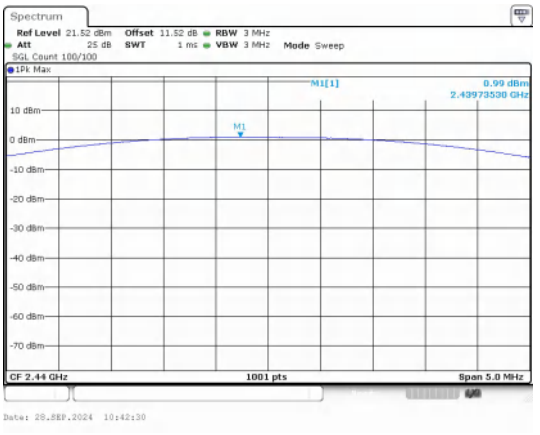
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.68	1.17	≤30	PASS
	19	0.99	1.26	≤30	PASS
	39	1.29	1.35	≤30	PASS
BLE 2M	0	0.97	1.25	≤30	PASS
	19	1.46	1.4	≤30	PASS
	39	1.71	1.48	≤30	PASS

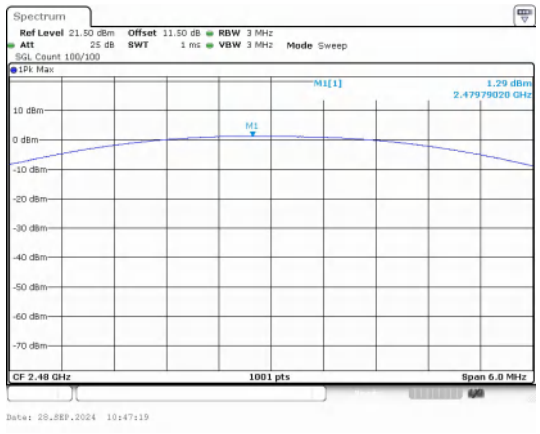
Test Graphs



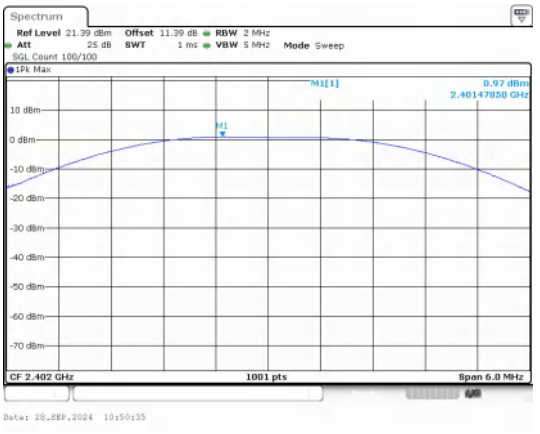
Peak Output Power
BLE 1M_Channel 0



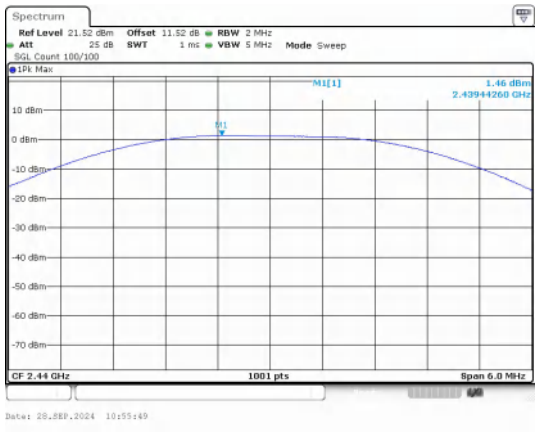
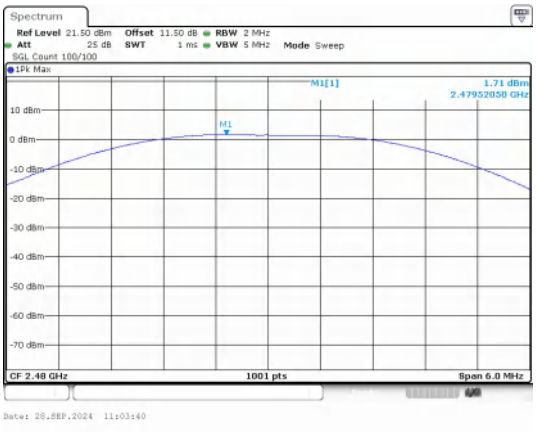
Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0

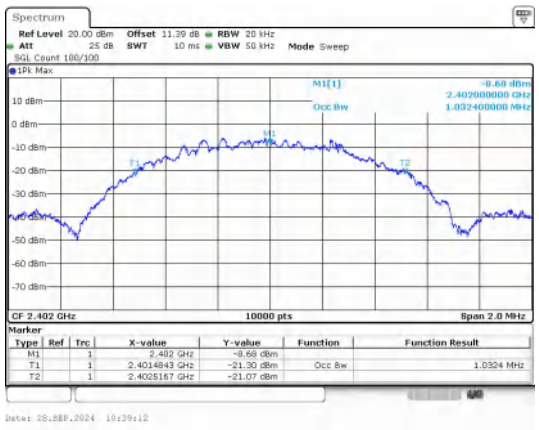
	
Peak Output Power **BLE 2M_Channel 19**	**Peak Output Power** **BLE 2M_Channel 39**

2) 99% Bandwidth

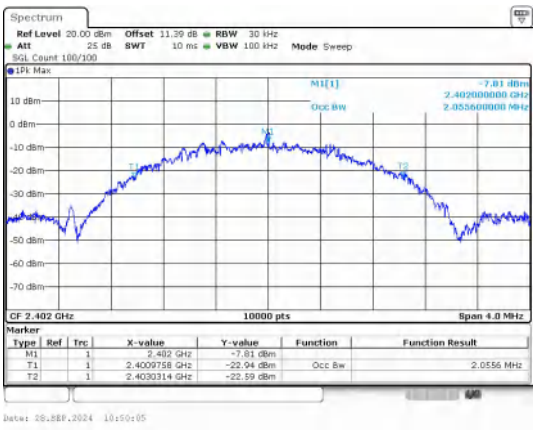
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0324
BLE 1M	19	2440	1.0304
BLE 1M	39	2480	1.0328
BLE 2M	0	2402	2.0556
BLE 2M	19	2440	2.0504
BLE 2M	39	2480	2.0604

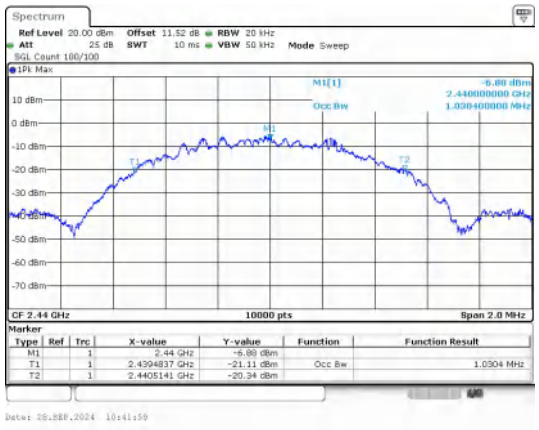
Test Graphs



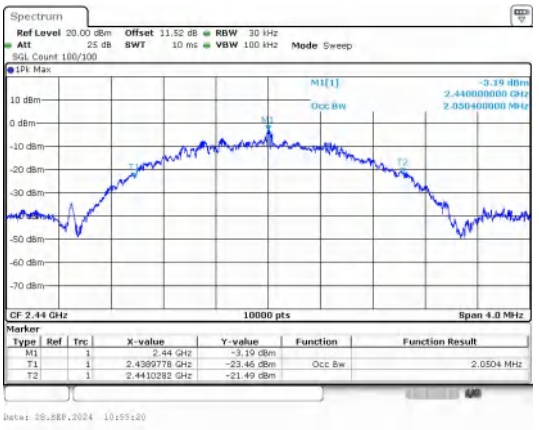
BLE 1M_Channel 0



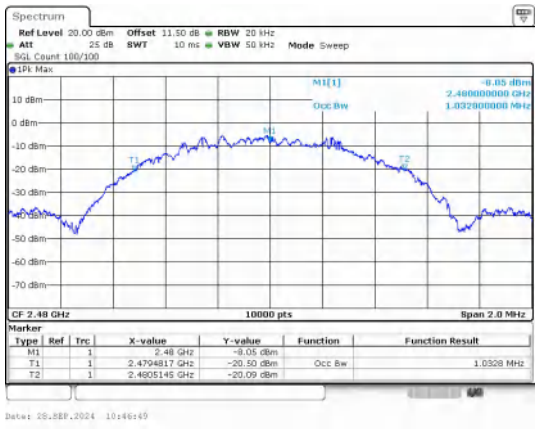
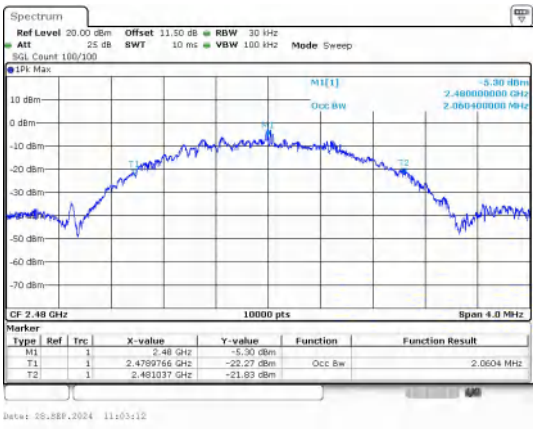
BLE 2M_Channel 0



BLE 1M_Channel 19



BLE 2M_Channel 19

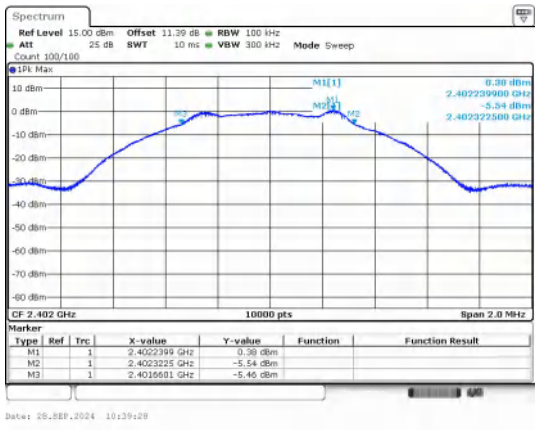
	
BLE 1M_Channel 39	BLE 2M_Channel 39

3) 6dB Bandwidth

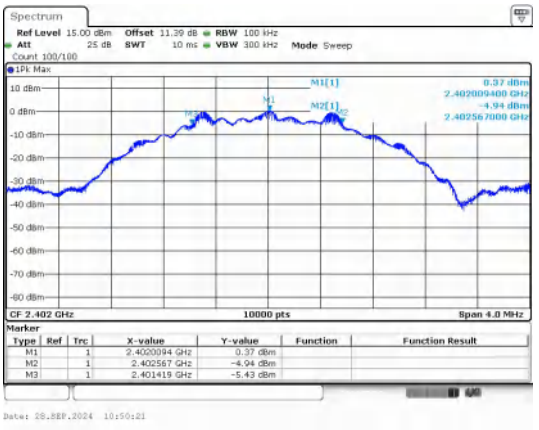
Test Result

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	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

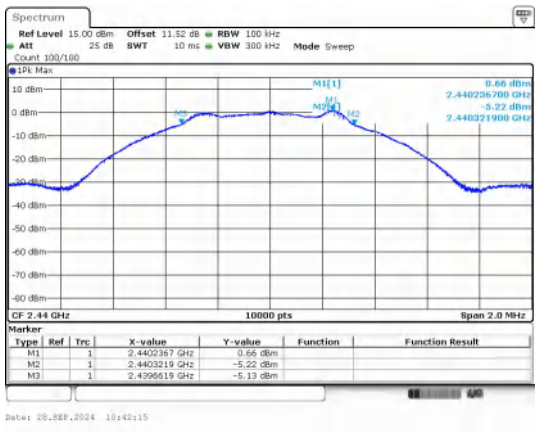
Test Graphs



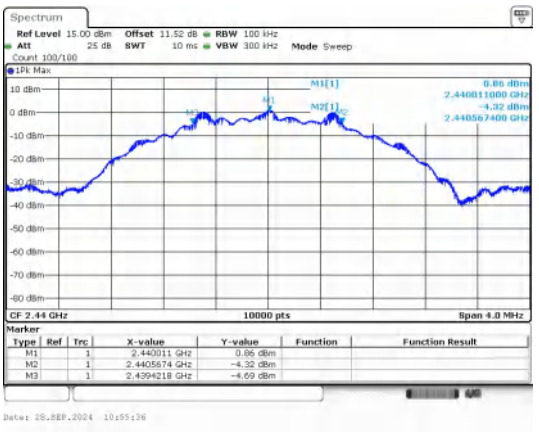
BLE 1M_Channel 0



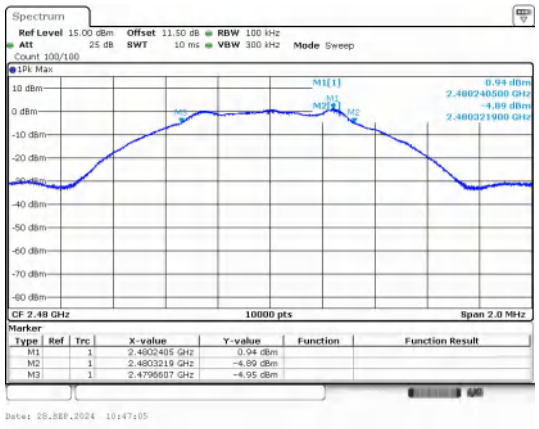
BLE 2M_Channel 0



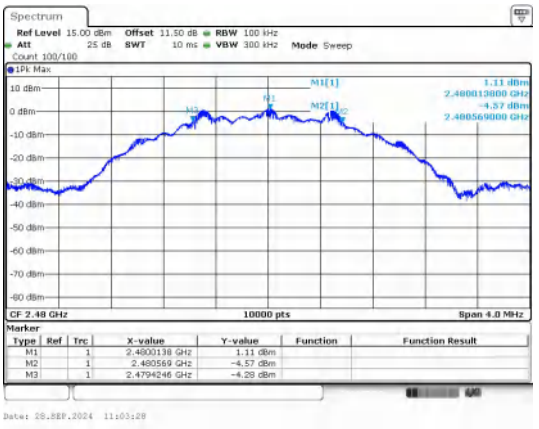
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



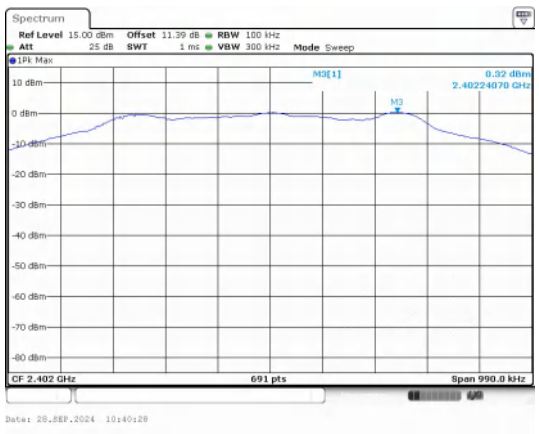
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

Test Result

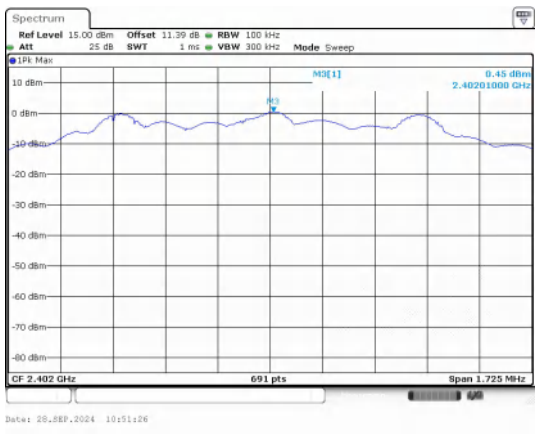
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-42.057	-19.68	-22.377	PASS
		2400.00	-45.442	-19.68	-25.762	PASS
		9602.20	-45.248	-19.68	-25.568	PASS
	19	9753.73	-41.647	-19.35	-22.297	PASS
	39	2483.50	-43.811	-19.16	-24.651	PASS
		9914.37	-42.203	-19.16	-23.043	PASS
BLE 2M	0	2400.00	-33.024	-19.55	-13.474	PASS
		9602.25	-45.717	-19.55	-26.167	PASS
	19	9753.73	-42.340	-19.15	-23.190	PASS
	39	2483.50	-49.335	-18.81	-30.525	PASS
		9914.37	-42.255	-18.81	-23.445	PASS

Test Graphs



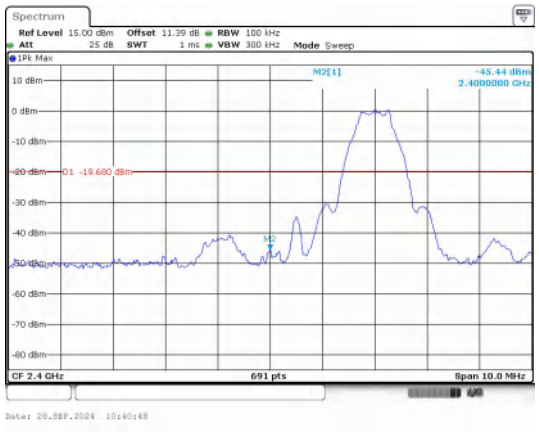
In-Band Reference Level

BLE 1M_Channel 0

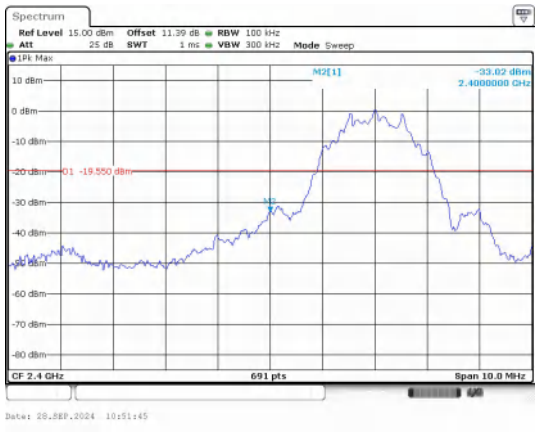


In-Band Reference Level

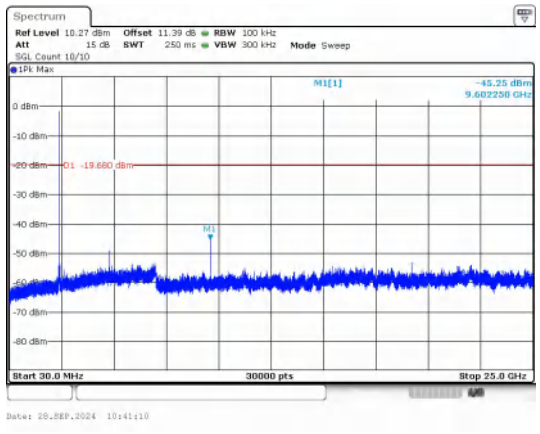
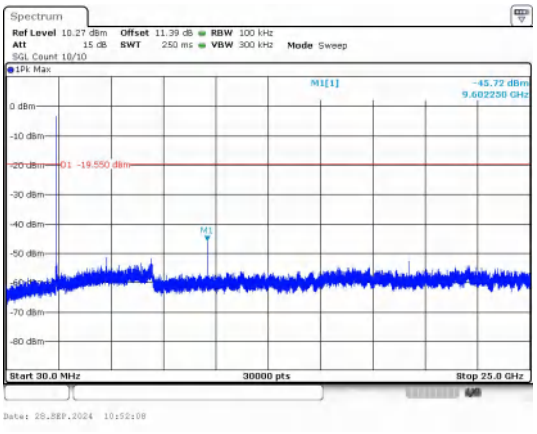
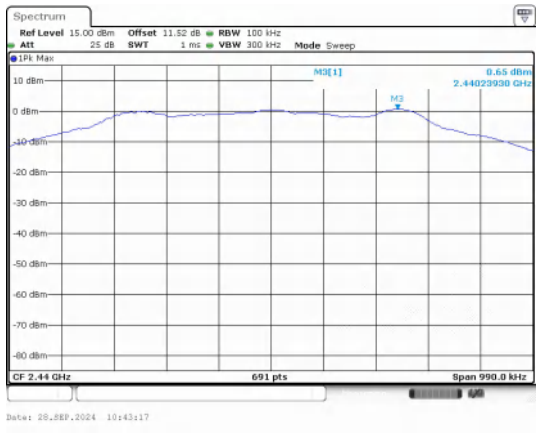
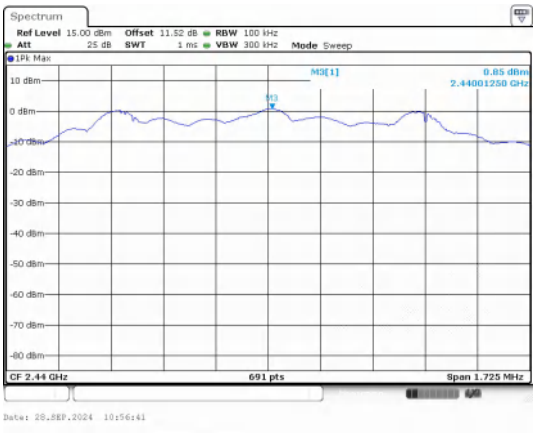
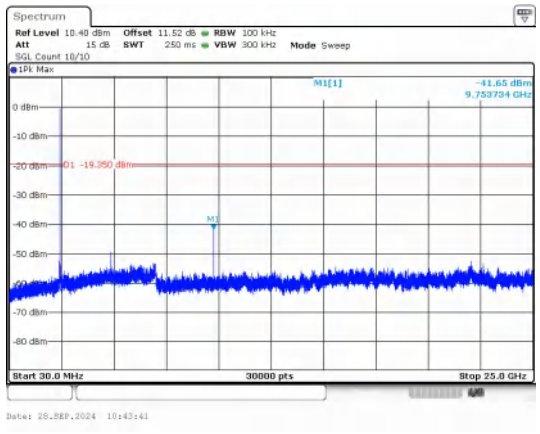
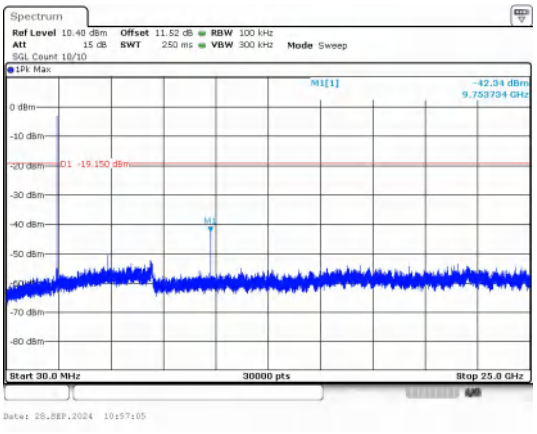
BLE 2M_Channel 0

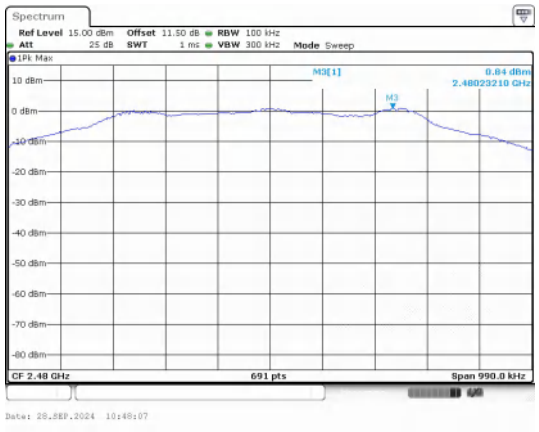


Out Of Band Emission



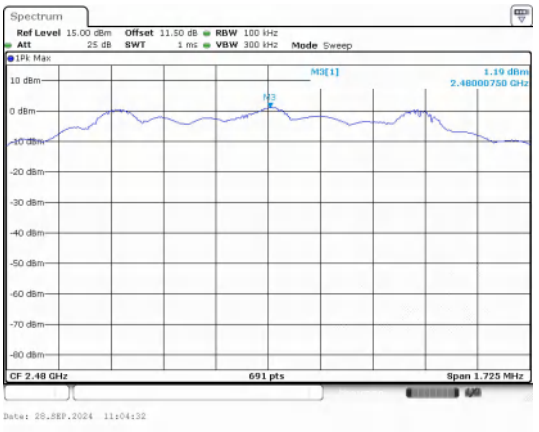
Out Of Band Emission

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



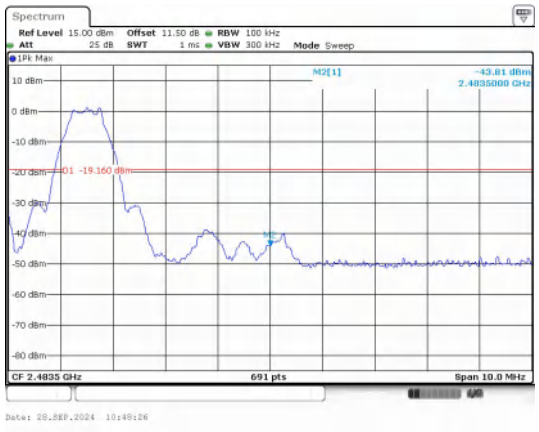
In-Band Reference Level

BLE 1M_Channel 39



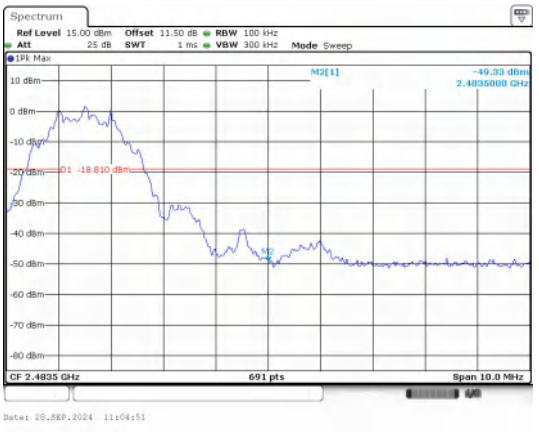
In-Band Reference Level

BLE 2M_Channel 39



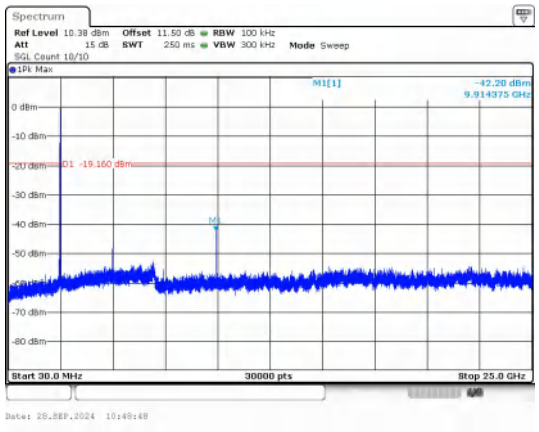
Out Of Band Emission

BLE 1M_Channel 39



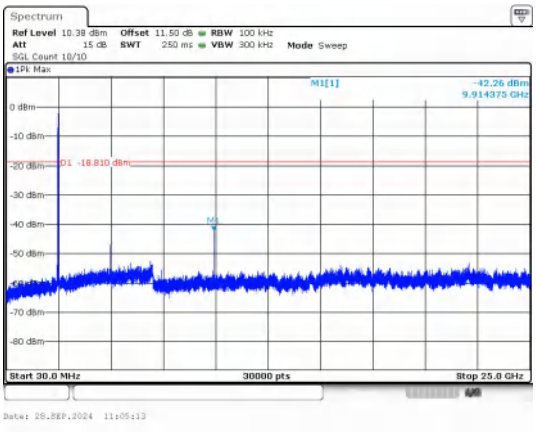
Out Of Band Emission

BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

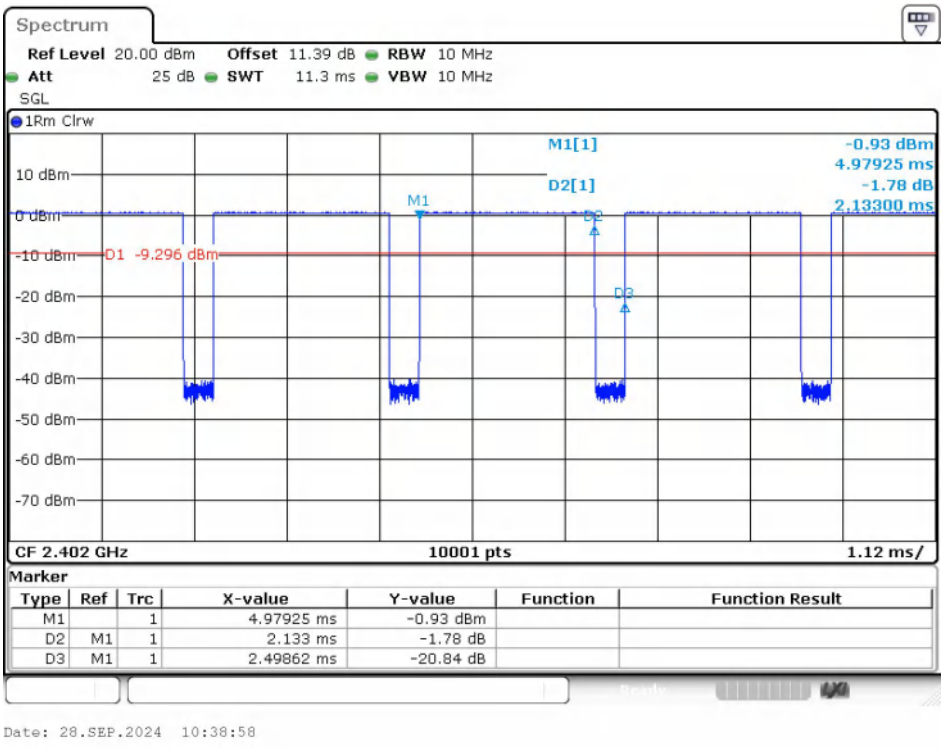
BLE 2M_Channel 39

5) Duty Cycle

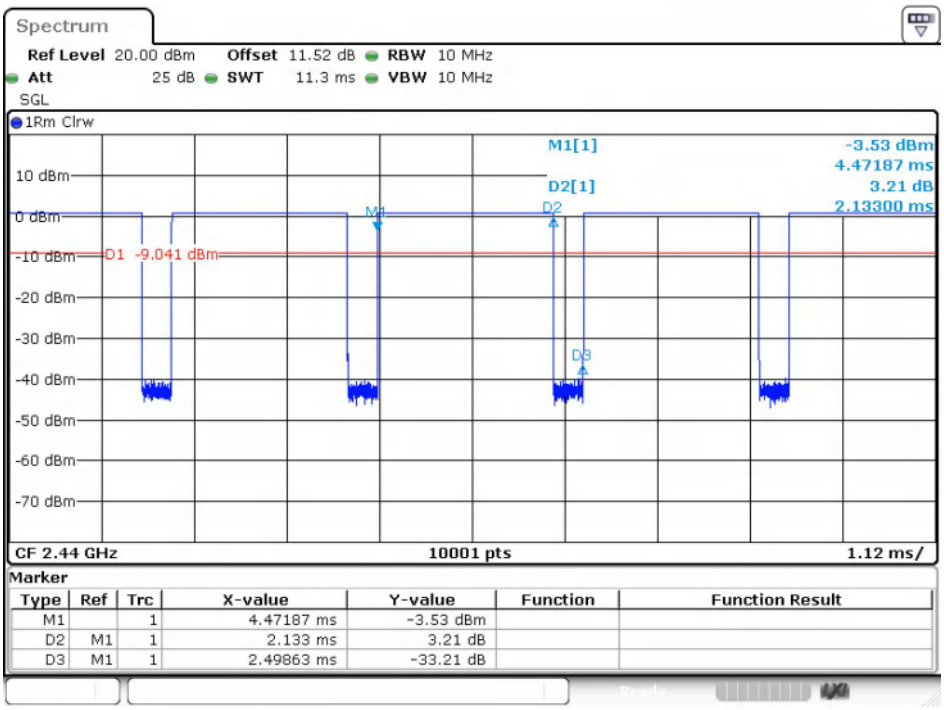
Test Result

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	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.134	2.500	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

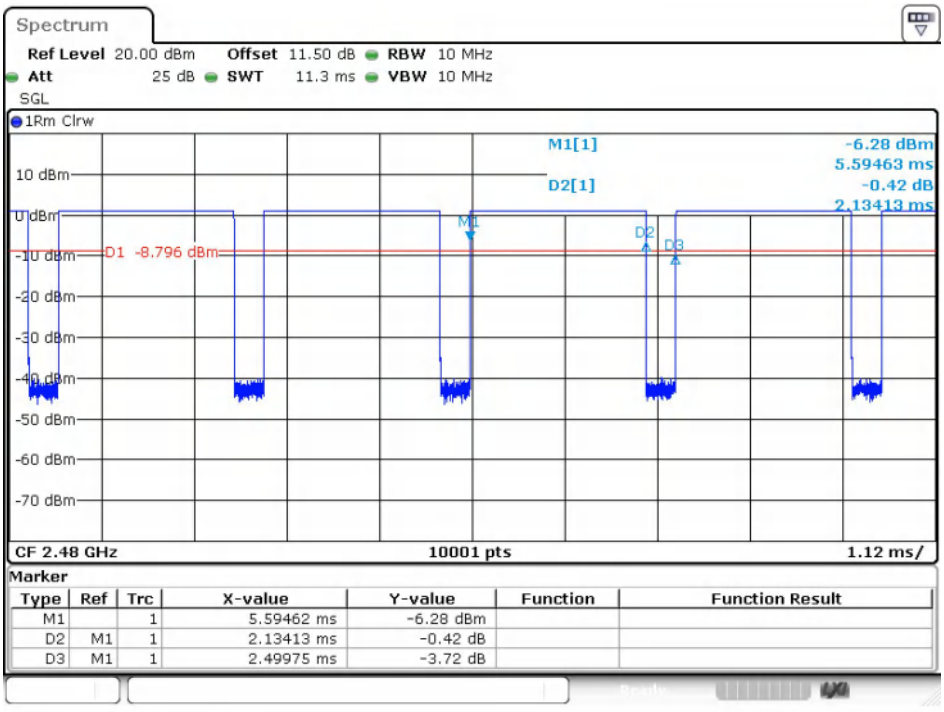
Test Graphs



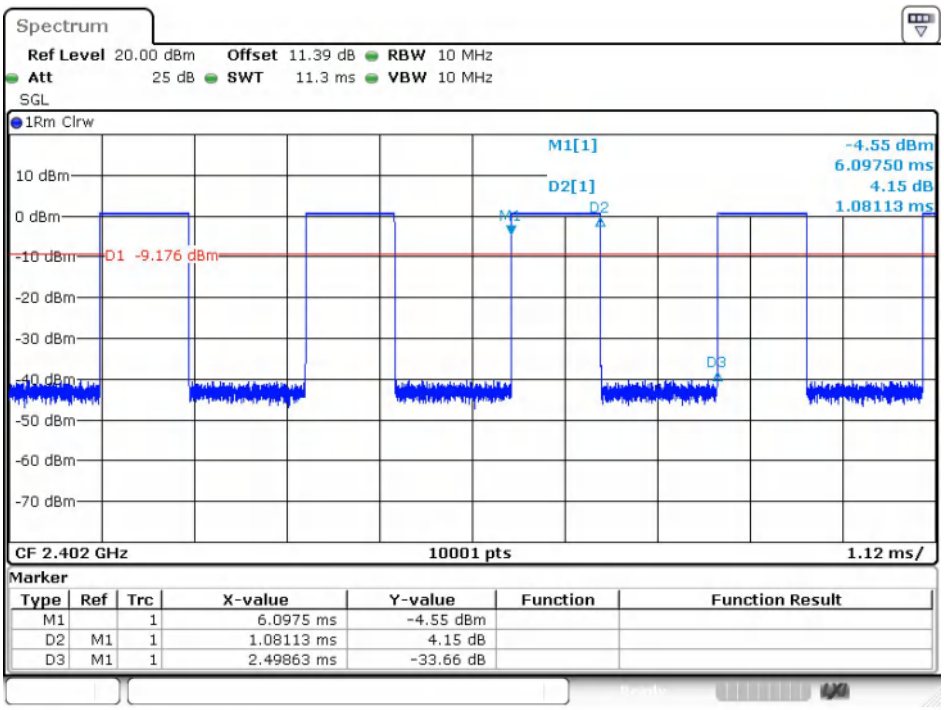
BLE 1M_Channel 0



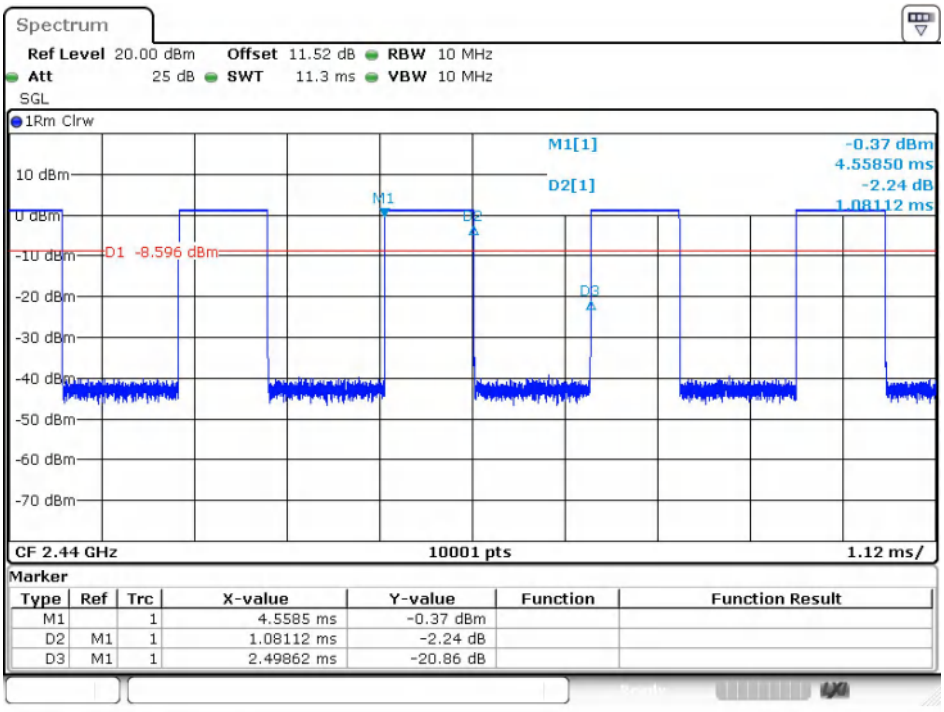
BLE 1M_Channel 19



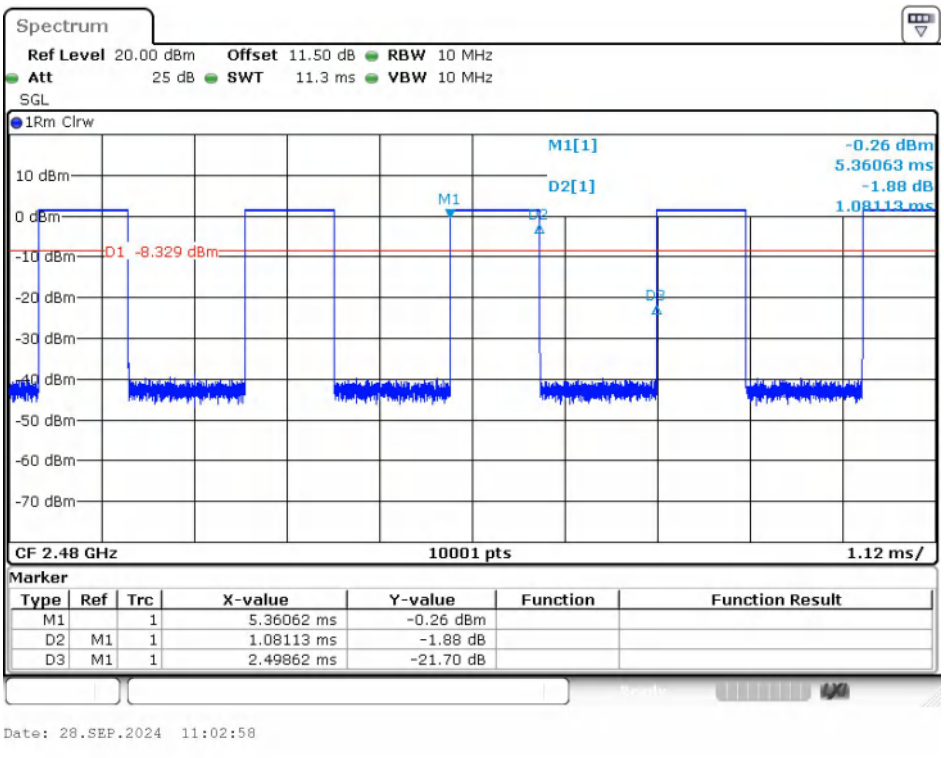
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



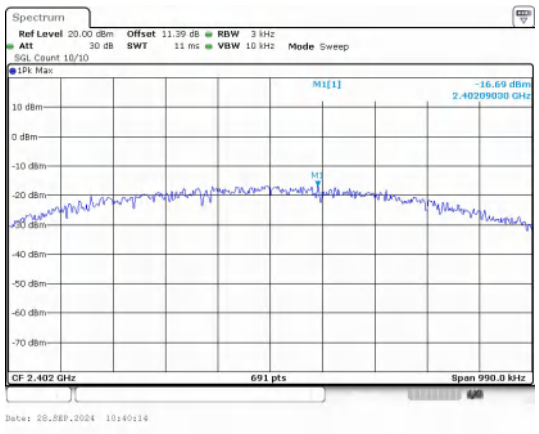
BLE 2M_Channel 39

6) Power Spectral Density

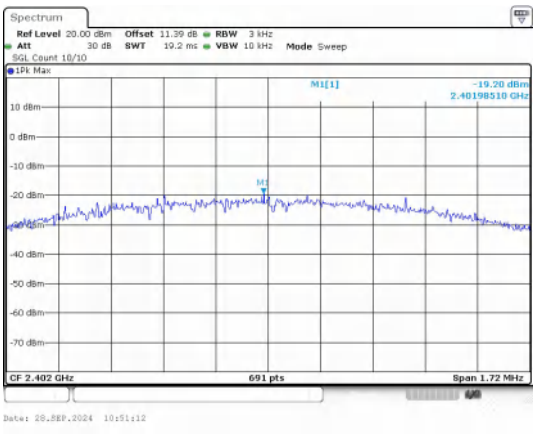
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.69	≤8	PASS
BLE 1M	19	-16.29	≤8	PASS
BLE 1M	39	-16.23	≤8	PASS
BLE 2M	0	-19.20	≤8	PASS
BLE 2M	19	-17.74	≤8	PASS
BLE 2M	39	-18.15	≤8	PASS

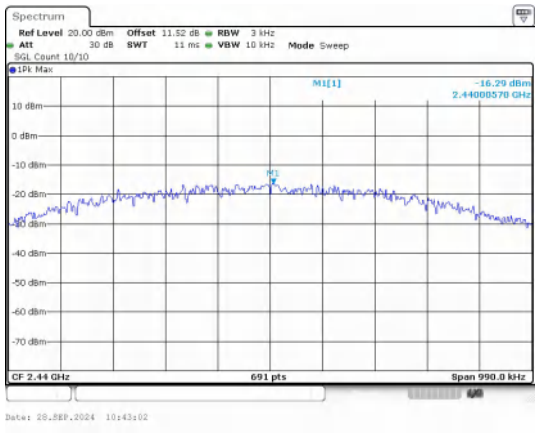
Test Graphs



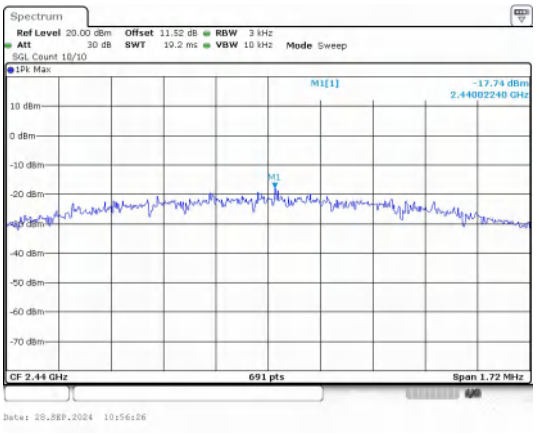
BLE 1M_Channel 0



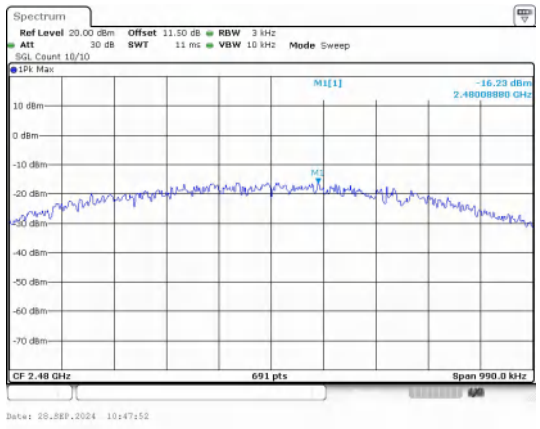
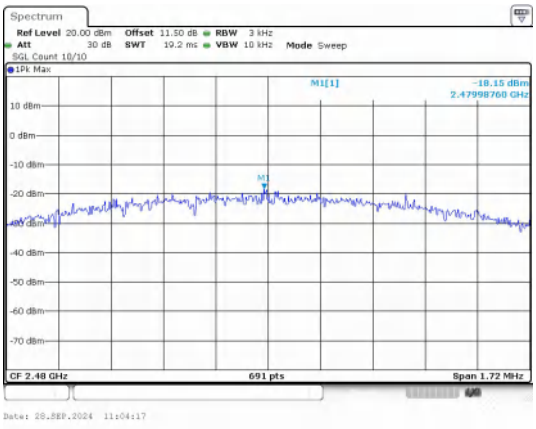
BLE 2M_Channel 0



BLE 1M_Channel 19



BLE 2M_Channel 19

	
BLE 1M_Channel 39	BLE 2M_Channel 39