Appendix B

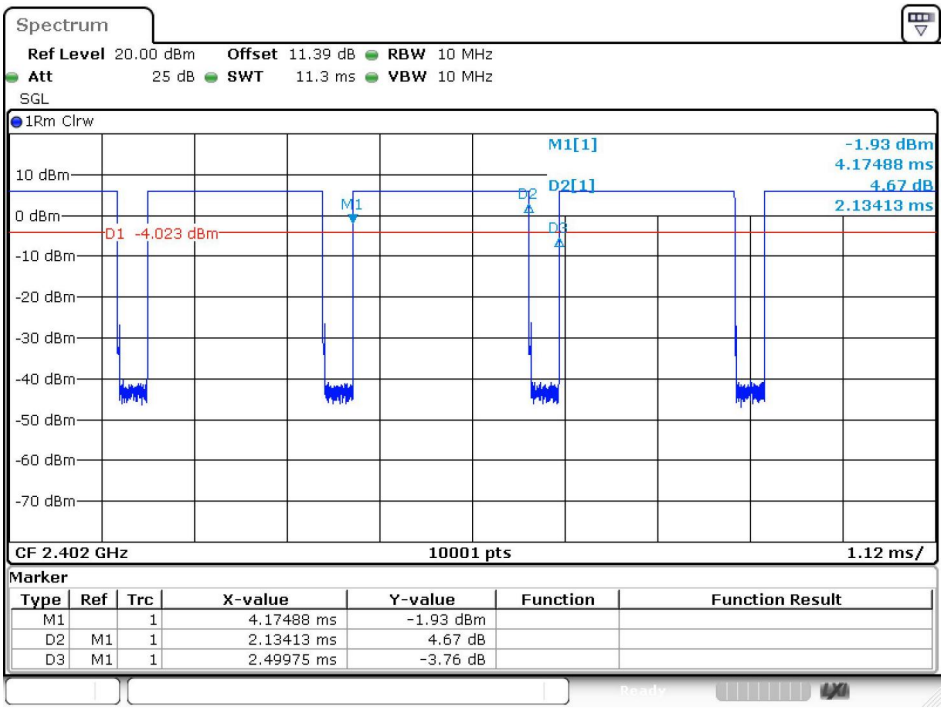
Report No.:	CISRR24082719802
FCC ID:	2BKVY-BCI-AIC
Product Name:	Smart EEG Glasses
Model No.:	BCI-AIC
Test Engineer:	Jimmy Huang
Supervised by:	Rory Huang

1) Duty Cycle

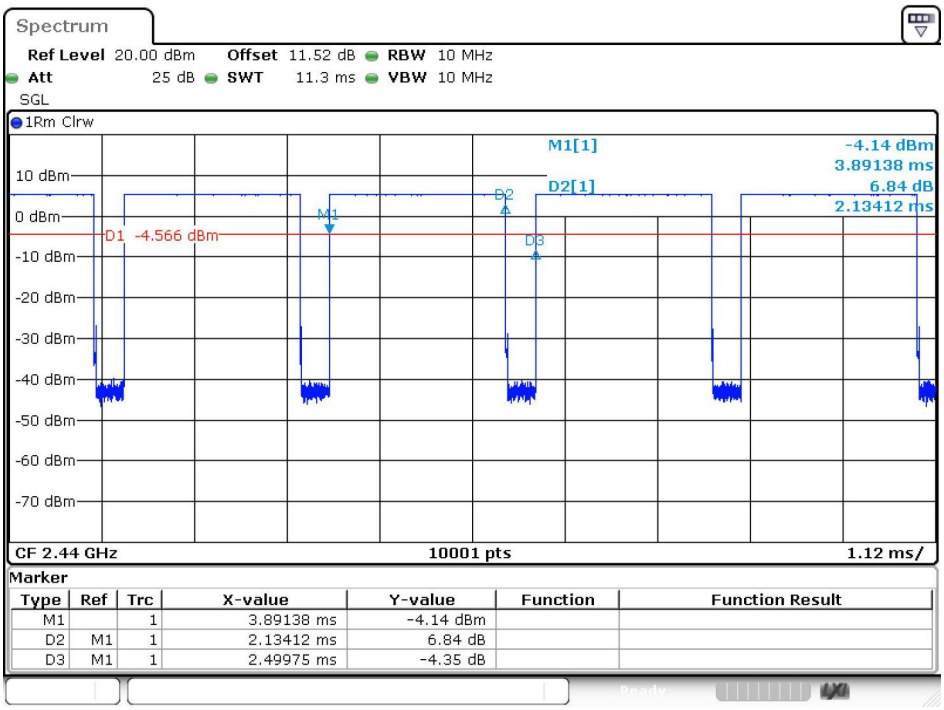
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.500	85.37	0.8537	0.6869	0.47
	19	2.134	2.500	85.37	0.8537	0.6869	0.47
	39	2.134	2.499	85.41	0.8541	0.6849	0.47
BLE 2M	0	1.082	2.499	43.31	0.4331	3.6341	0.92
	19	1.082	2.499	43.31	0.4331	3.6341	0.92
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

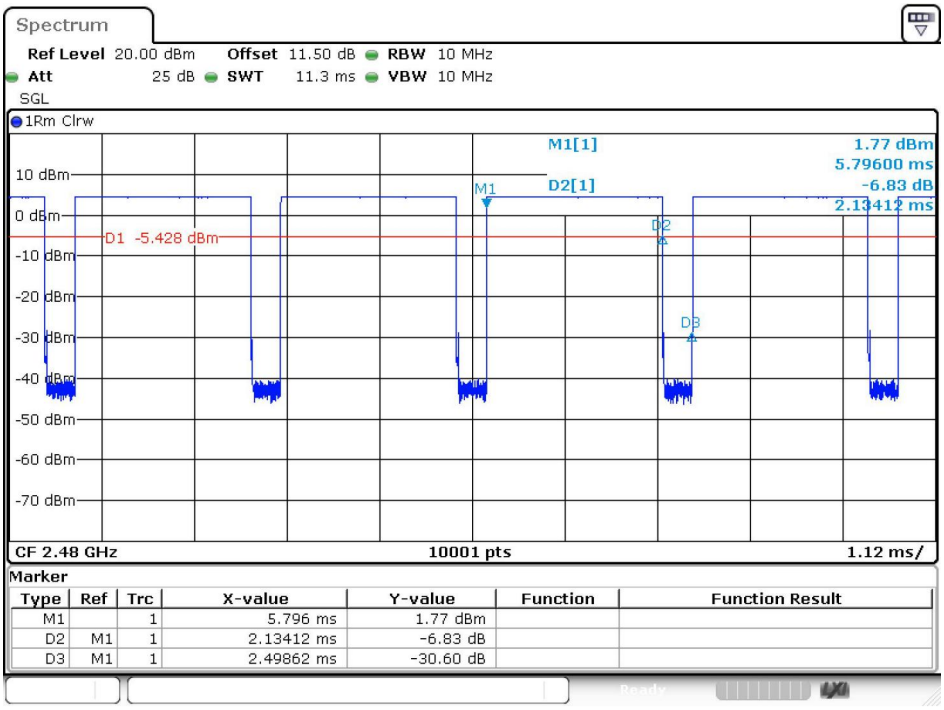
Test Graphs



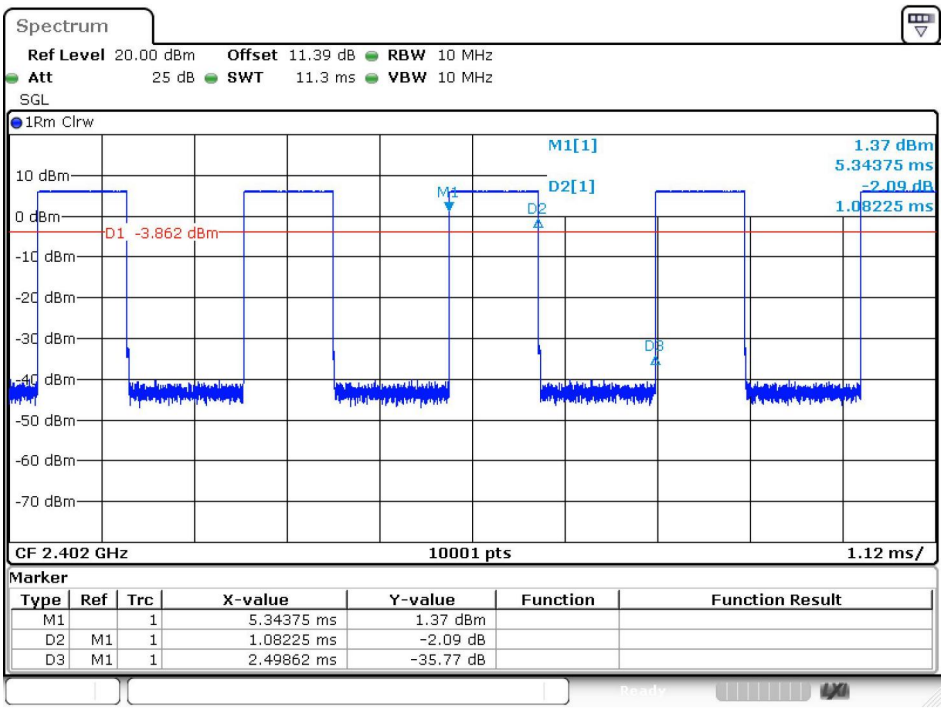
BLE 1M_Channel 0



BLE 1M_Channel 19

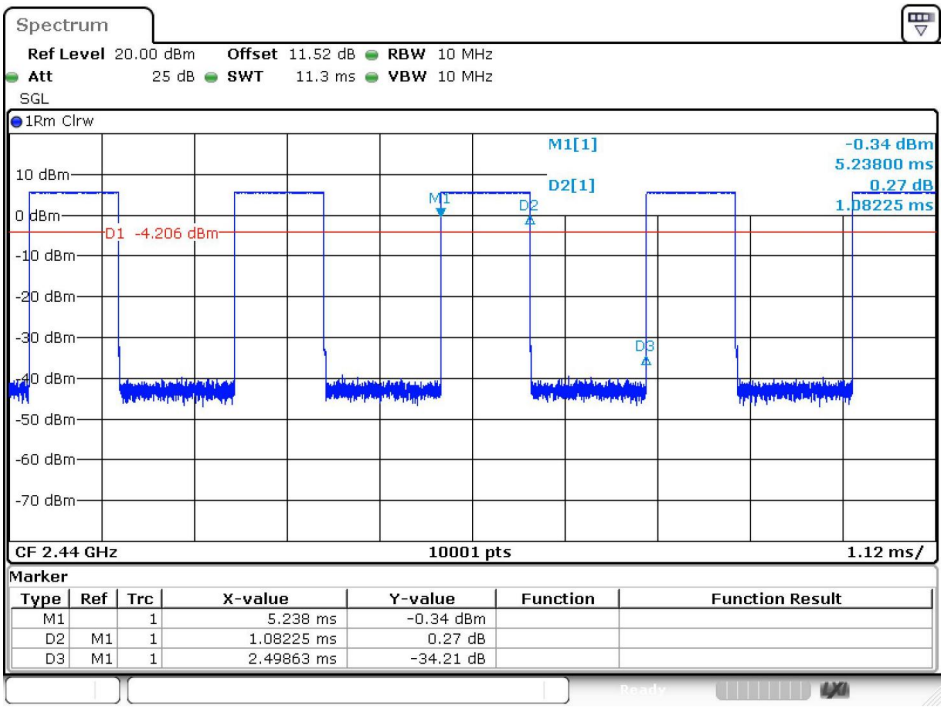


BLE 1M_Channel 39



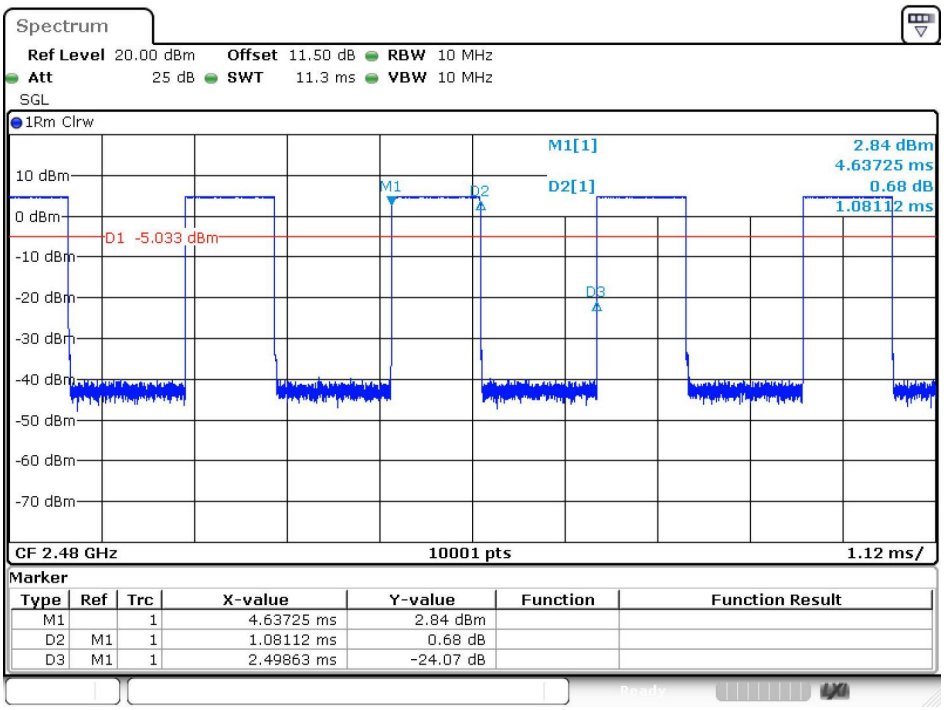
Date: 30.AUG.2024 16:06:52

BLE 2M_Channel 0



Date: 30.AUG.2024 16:10:12

BLE 2M_Channel 19



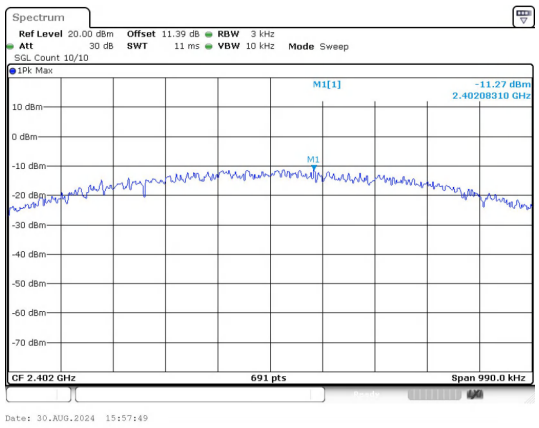
BLE 2M_Channel 39

2) Power Spectral Density

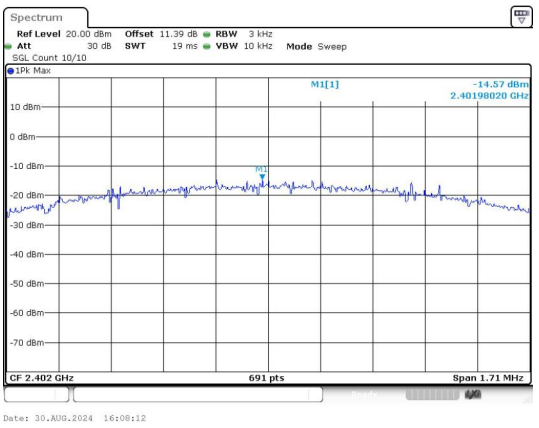
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-11.267	≤8	PASS
BLE 1M	19	-11.106	≤8	PASS
BLE 1M	39	-12.482	≤8	PASS
BLE 2M	0	-14.570	≤8	PASS
BLE 2M	19	-13.139	≤8	PASS
BLE 2M	39	-15.829	≤8	PASS

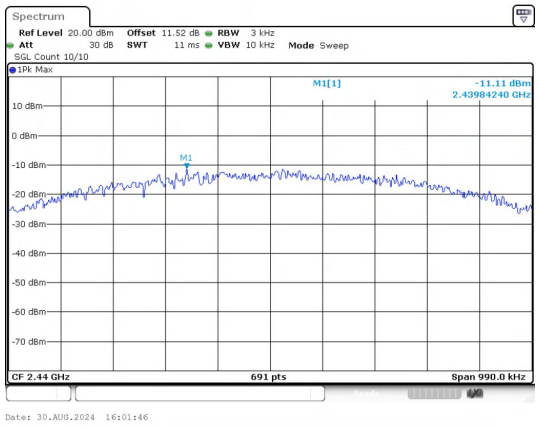
Test Graphs



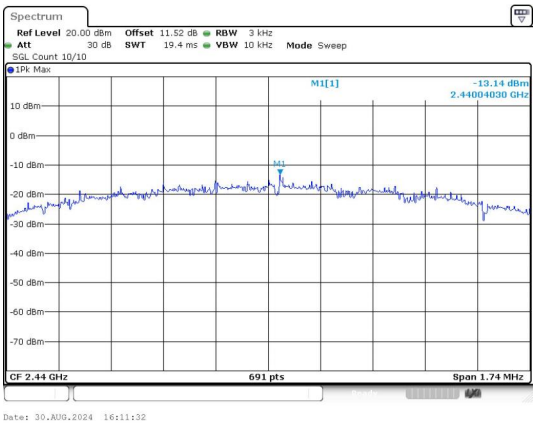
BLE 1M_Channel 0



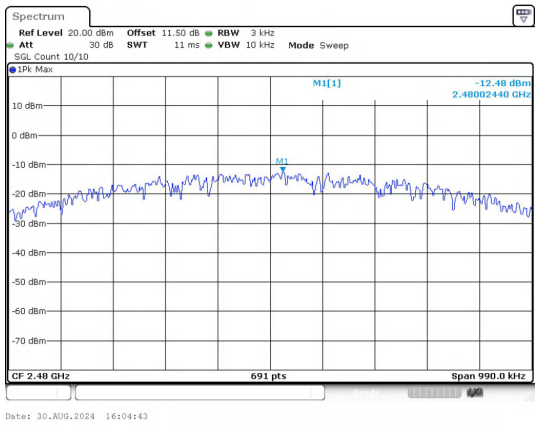
BLE 2M_Channel 0



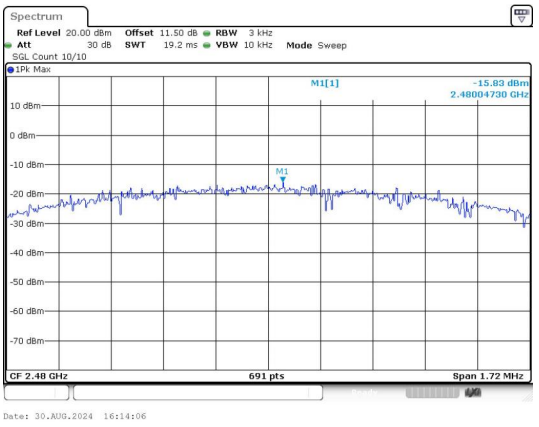
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



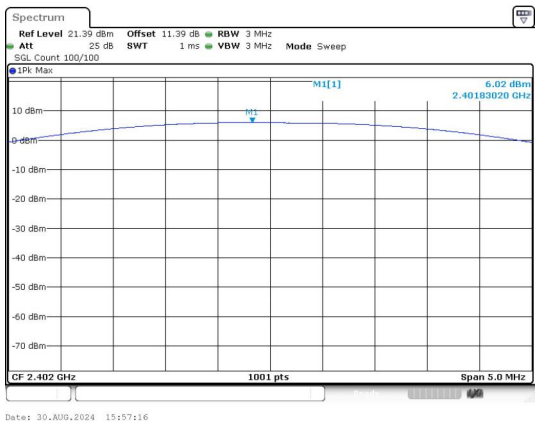
BLE 2M_Channel 39

3) Conducted Output Power

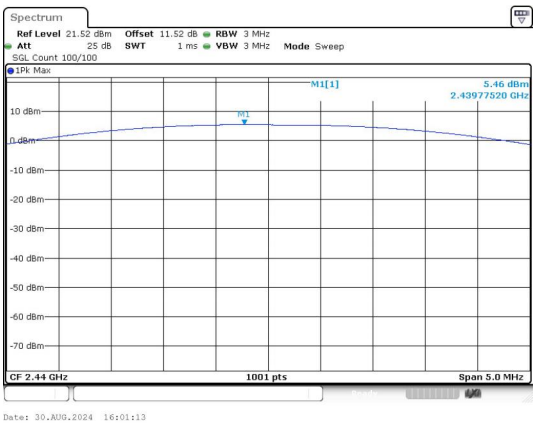
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.02	4.00	≤30	PASS
	19	5.46	3.51	≤30	PASS
	39	4.63	2.90	≤30	PASS
BLE 2M	0	6.25	4.22	≤30	PASS
	19	5.85	3.84	≤30	PASS
	39	5.01	3.17	≤30	PASS

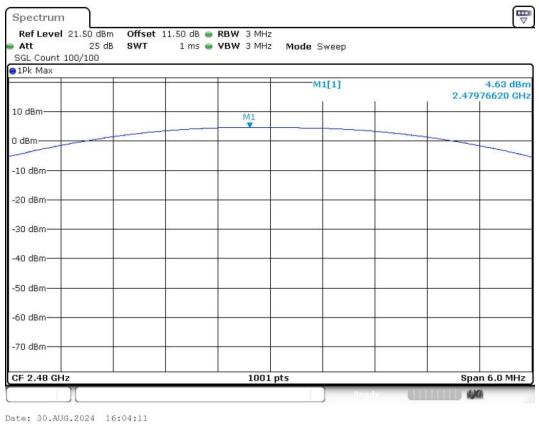
Test Graphs



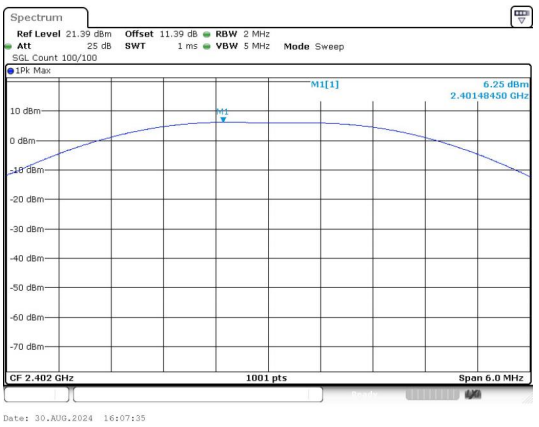
Peak Output Power
BLE 1M_Channel 0



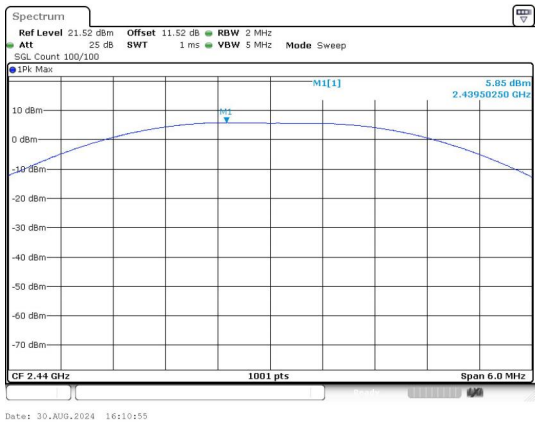
Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39

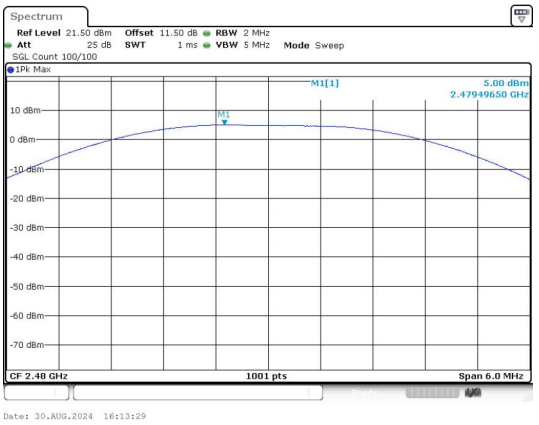


Peak Output Power
BLE 2M_Channel 0



Peak Output Power

BLE 2M_Channel 19



Peak Output Power

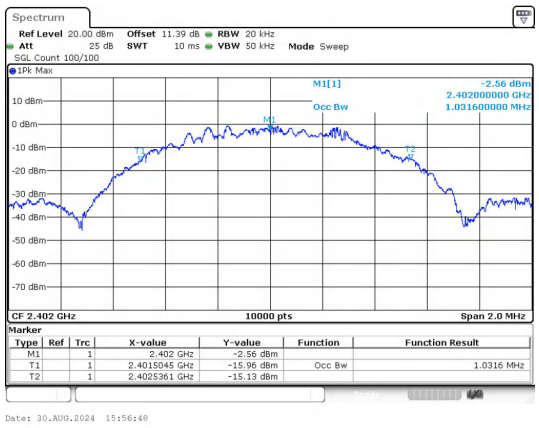
BLE 2M_Channel 39

4) 99% Bandwidth

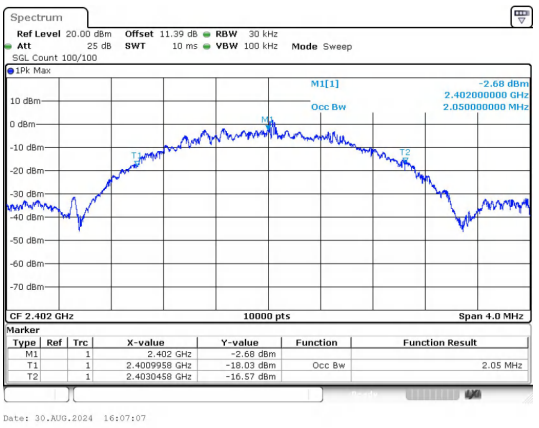
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0316
BLE 1M	19	2440	1.0322
BLE 1M	39	2480	1.0332
BLE 2M	0	2402	2.0500
BLE 2M	19	2440	2.0556
BLE 2M	39	2480	2.0600

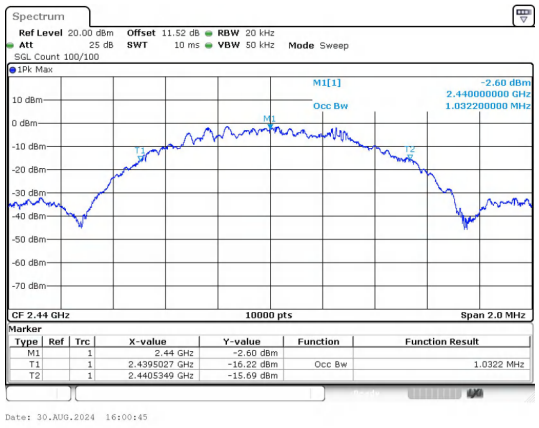
Test Graphs



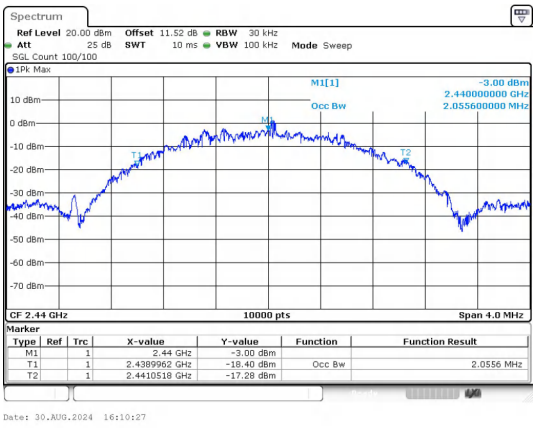
BLE 1M_Channel 0



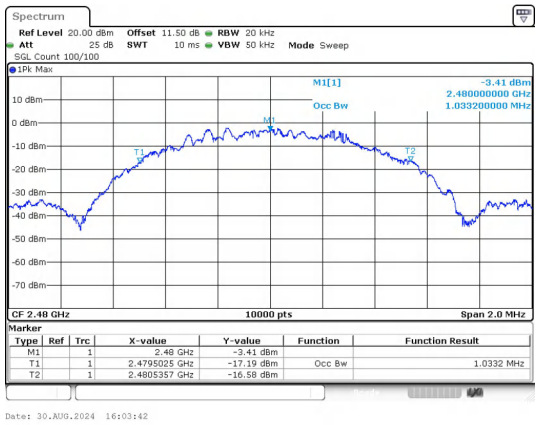
BLE 2M_Channel 0



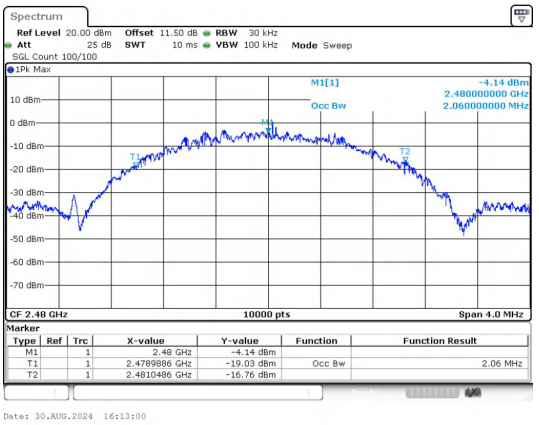
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



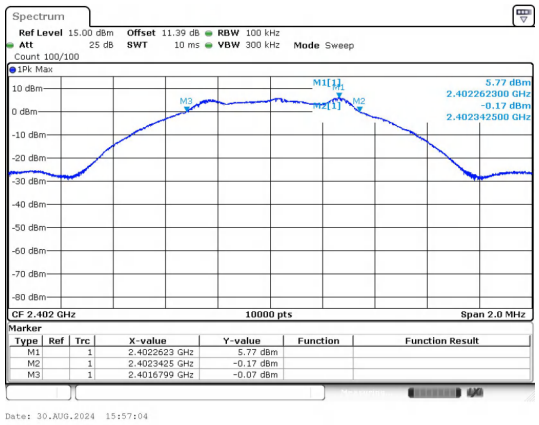
BLE 2M_Channel 39

5) 6dB Bandwidth

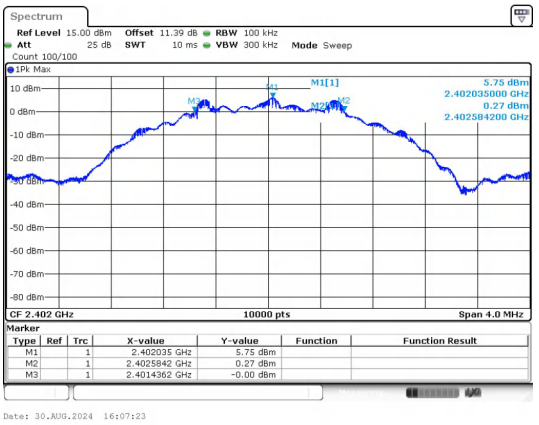
Test Result

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	1.140		PASS
	19	2440	1.160		PASS
	39	2480	1.150		PASS

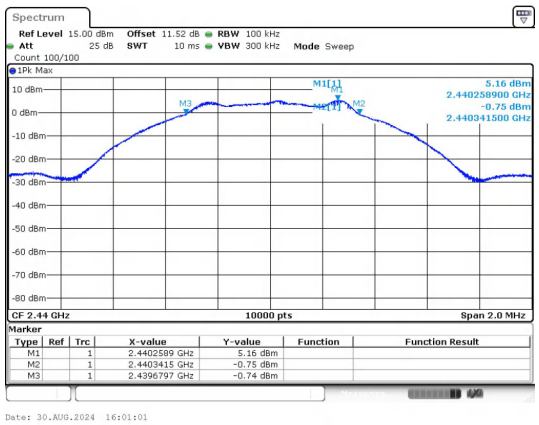
Test Graphs



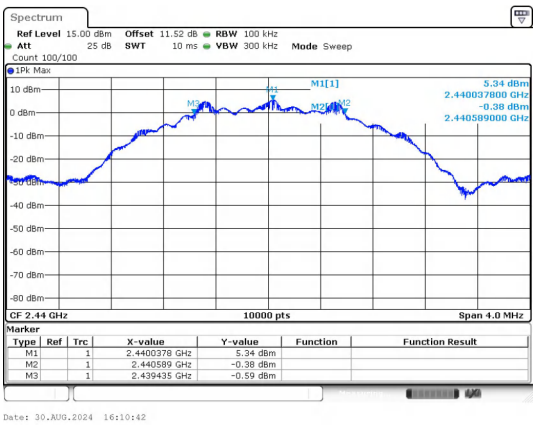
BLE 1M_Channel 0



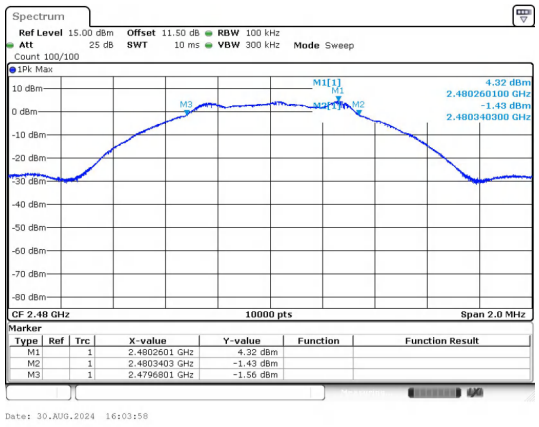
BLE 2M_Channel 0



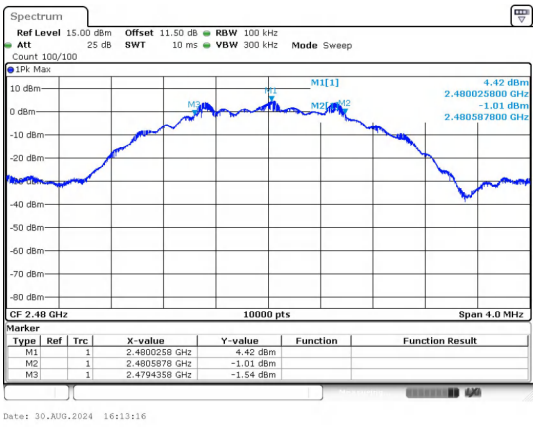
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



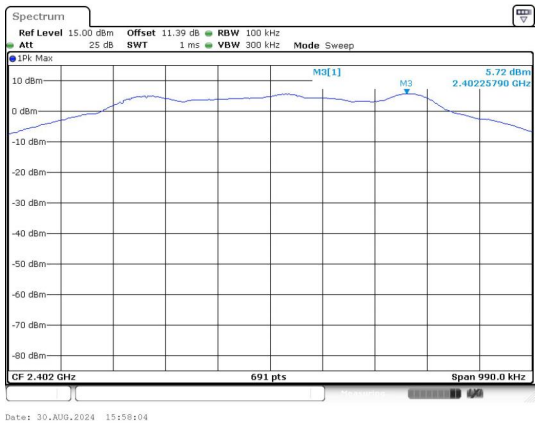
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

Test Result

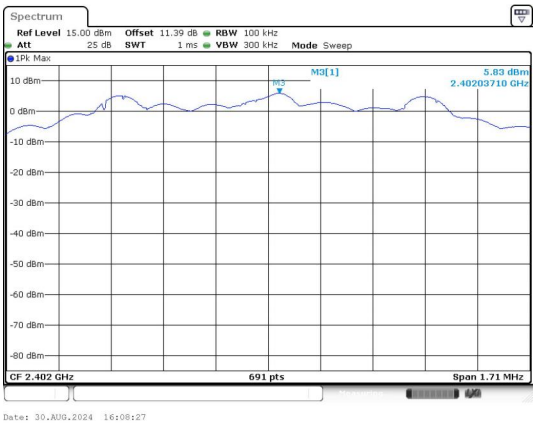
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-39.869	-14.28	-25.589	PASS
		2400.00	-48.009	-14.28	-33.729	PASS
		7205.10	-41.418	-14.28	-27.138	PASS
	19	2247.75	-43.054	-14.81	-28.244	PASS
	39	2287.70	-41.826	-15.68	-26.146	PASS
		2483.50	-46.347	-15.68	-30.667	PASS
BLE 2M	0	2400.00	-27.358	-14.17	-13.188	PASS
		7207.63	-44.666	-14.17	-30.496	PASS
	19	2247.75	-45.328	-14.66	-30.668	PASS
	39	2288.54	-44.496	-15.47	-29.026	PASS
		2483.50	-49.869	-15.47	-34.399	PASS

Test Graphs



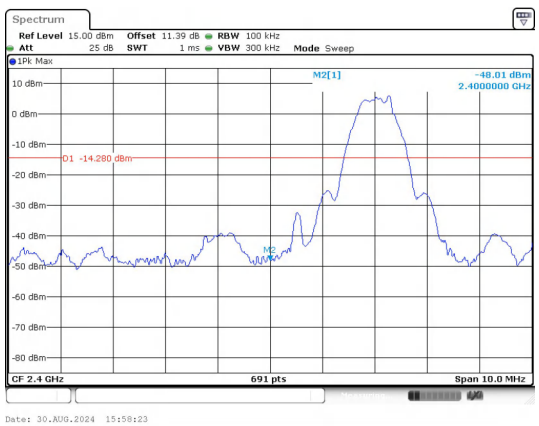
In-Band Reference Level

BLE 1M_Channel 0

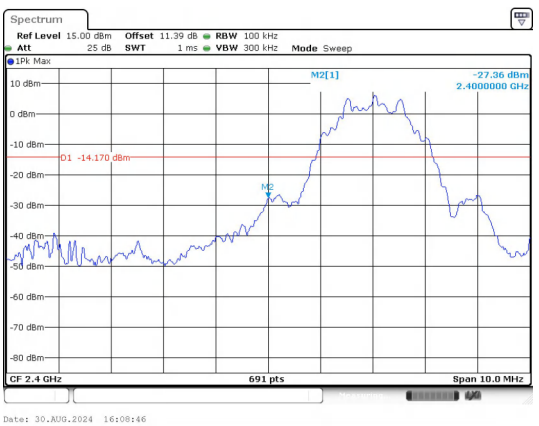


In-Band Reference Level

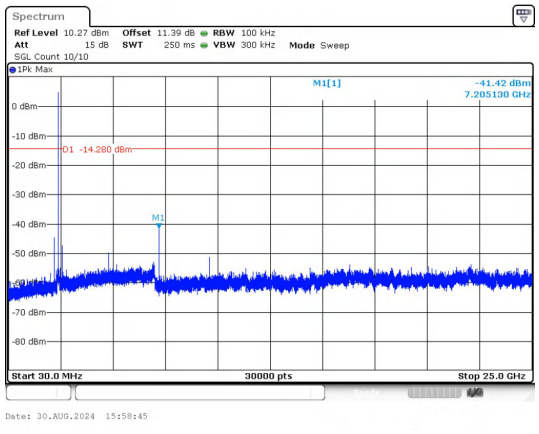
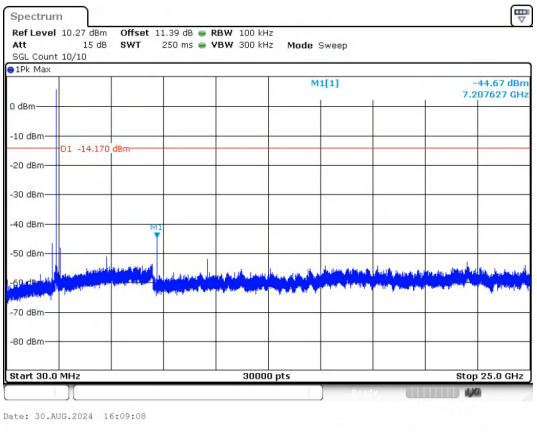
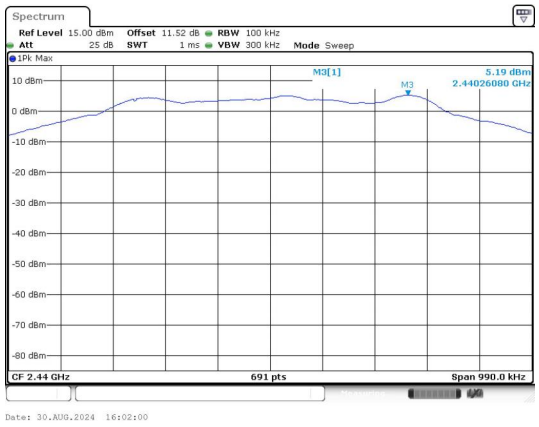
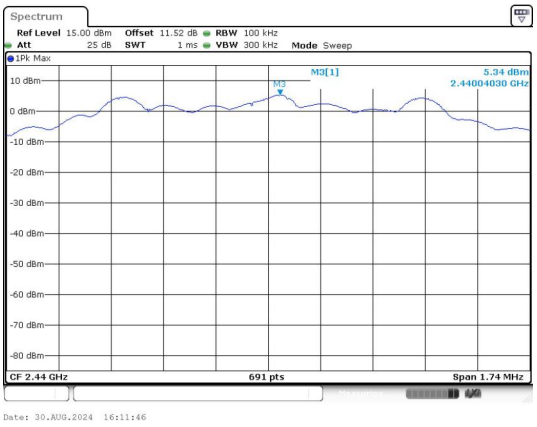
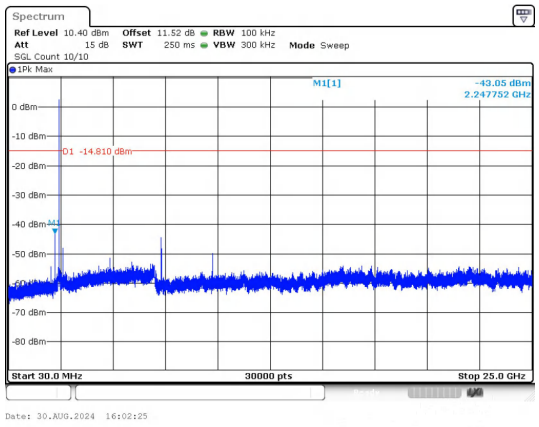
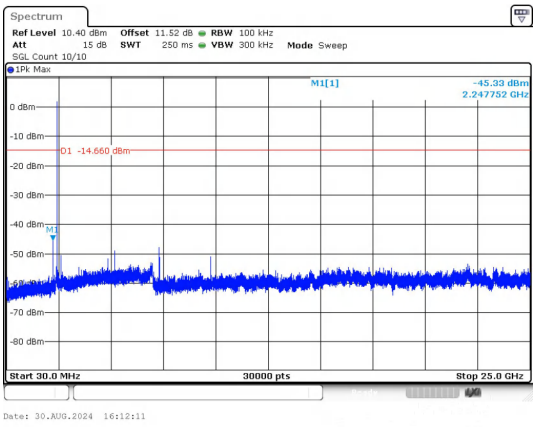
BLE 2M_Channel 0

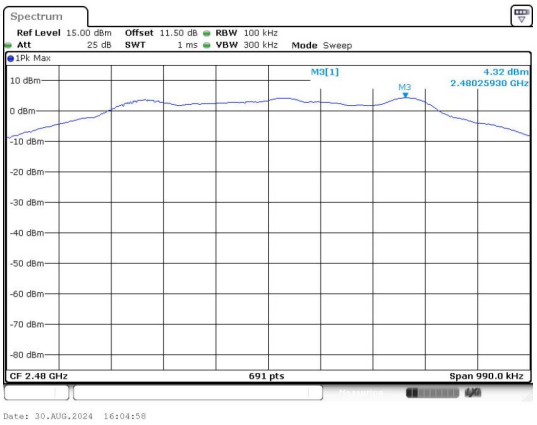


Out Of Band Emission



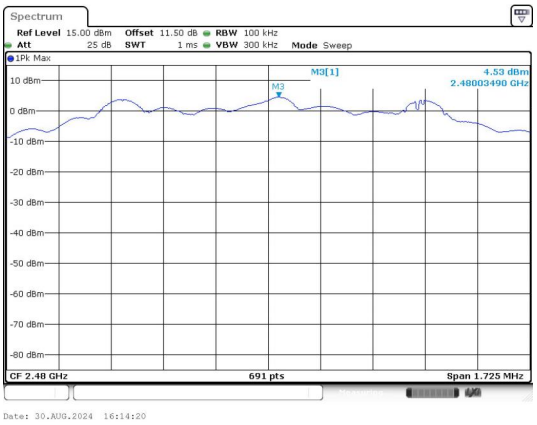
Out Of Band Emission

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**



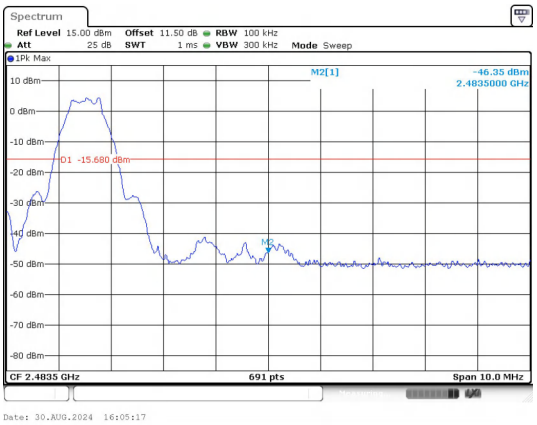
In-Band Reference Level

BLE 1M_Channel 39



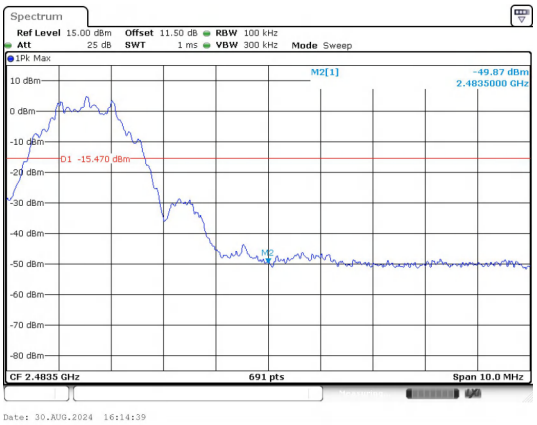
In-Band Reference Level

BLE 2M_Channel 39



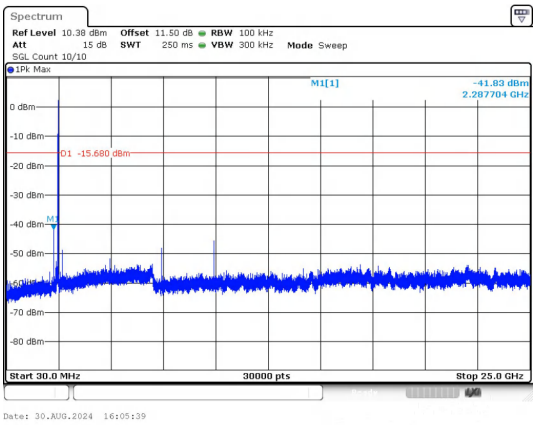
Out Of Band Emission

BLE 1M_Channel 39



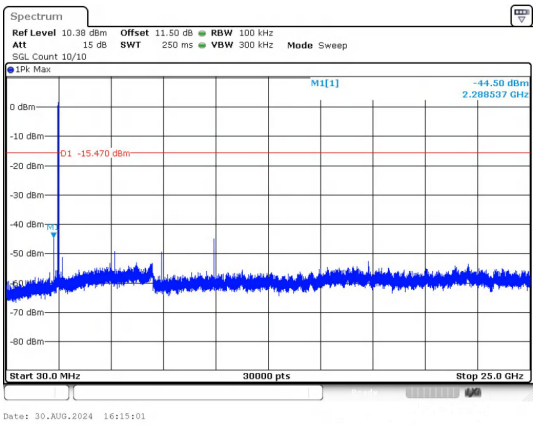
Out Of Band Emission

BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 2M_Channel 39