Appendix Report

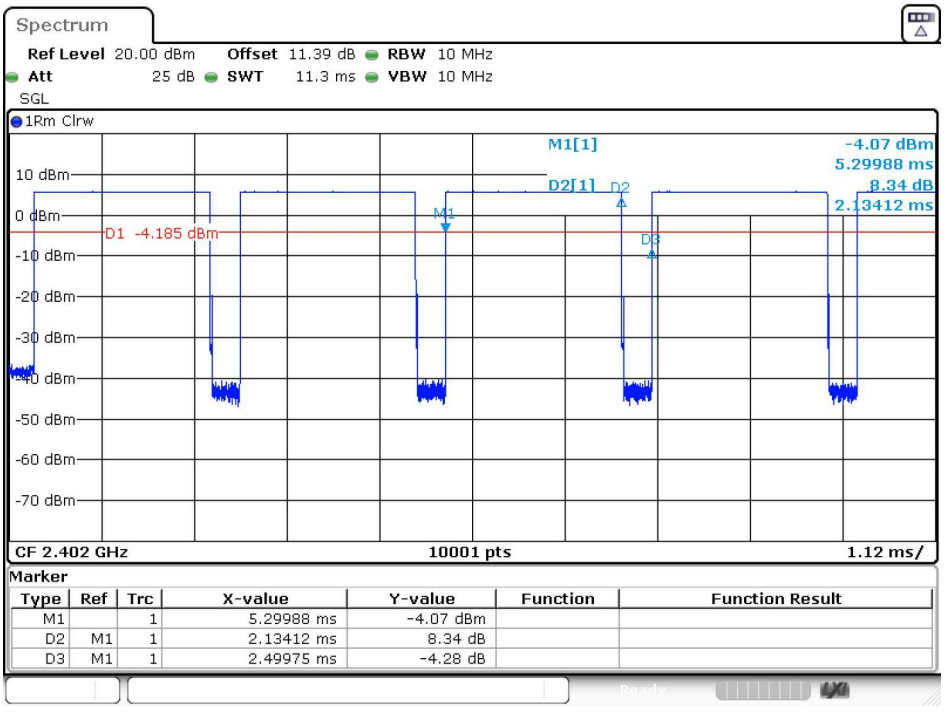
Report No.:	CISRR24120605102
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Duty Cycle

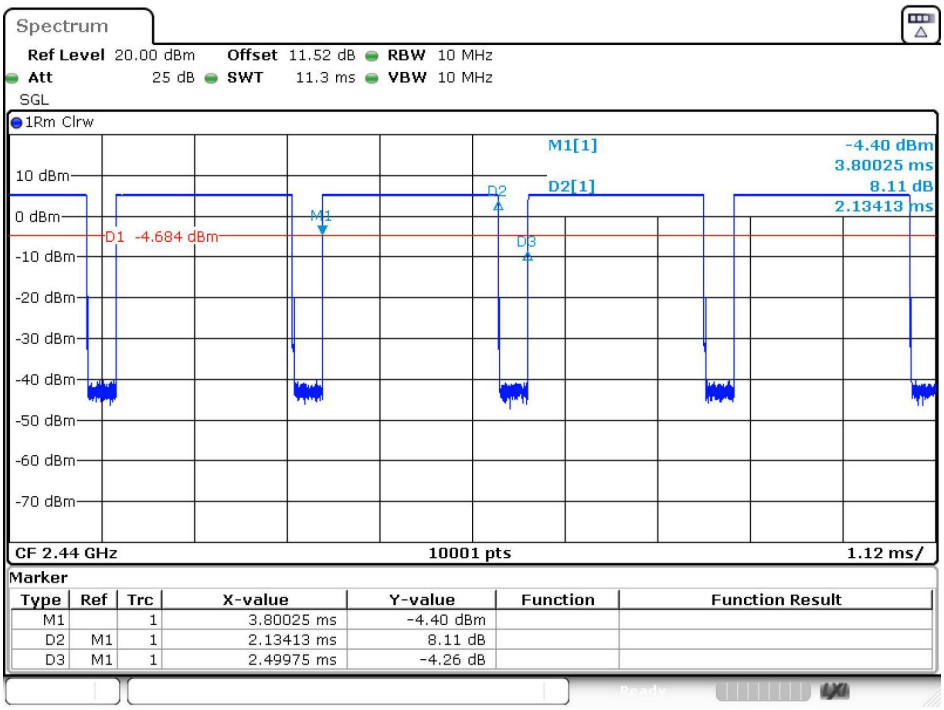
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.500	85.37	0.8537	0.6869	0.4686
	19	2.134	2.500	85.37	0.8537	0.6869	0.4686
	39	2.134	2.499	85.41	0.8541	0.6849	0.4686
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.077	2.488	43.28	0.4328	3.6371	0.9285
	39	1.081	2.499	43.27	0.4327	3.6381	0.9251

Test Graphs

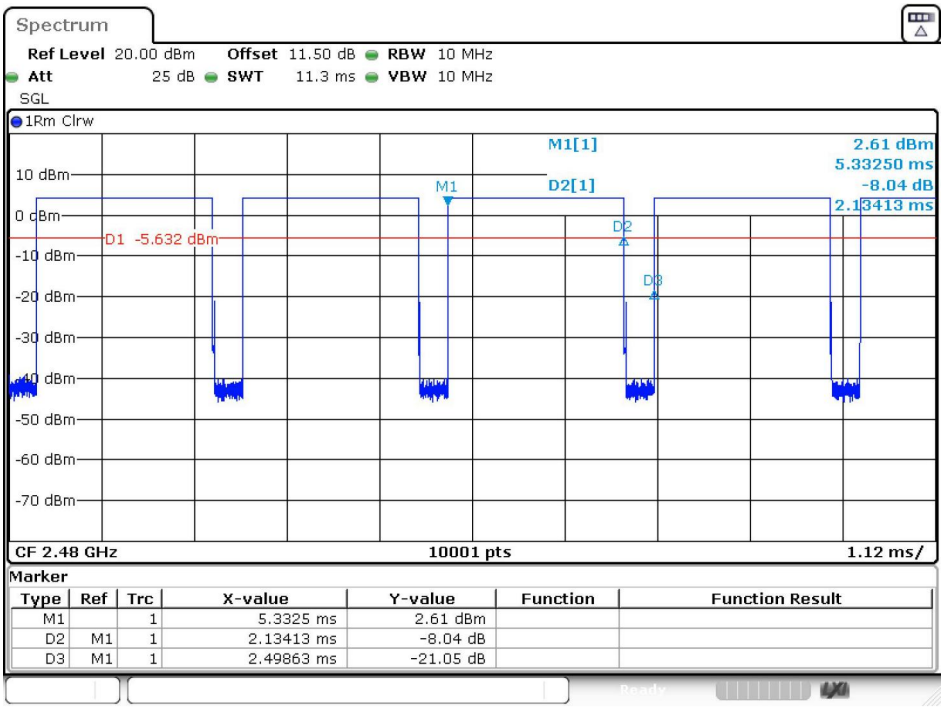


BLE 1M_Channel 0



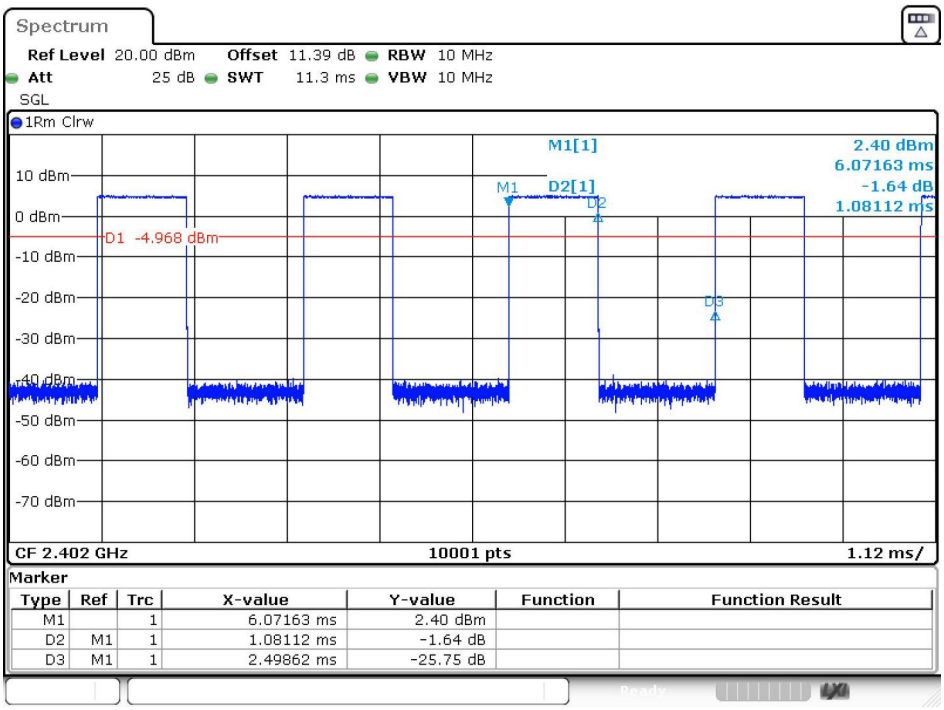
Date: 9.DEC.2024 17:24:23

BLE 1M_Channel 19

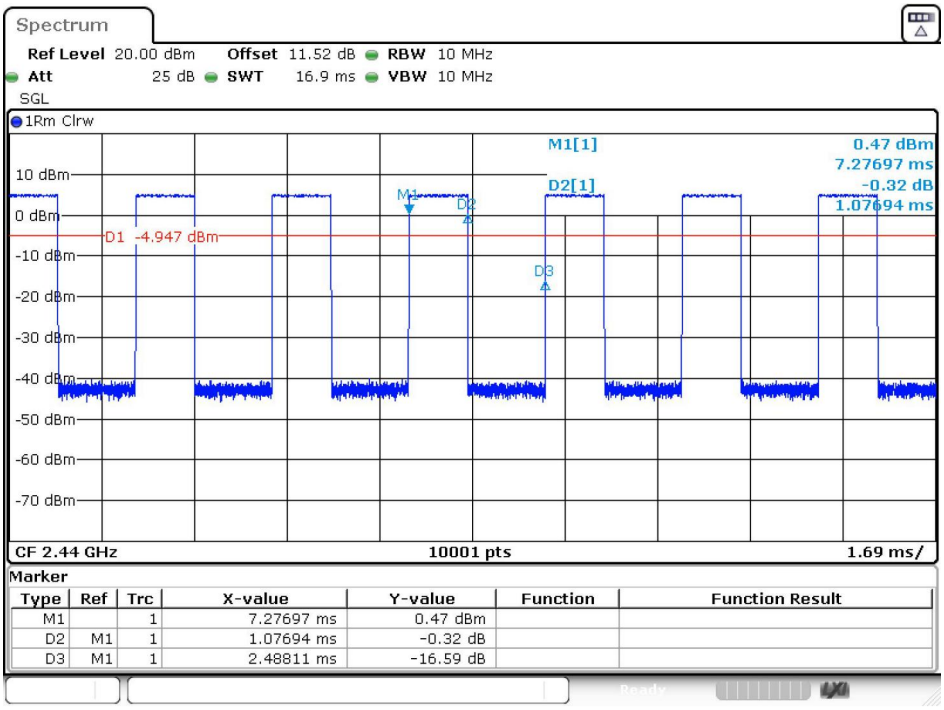


Date: 9.DEC.2024 17:26:22

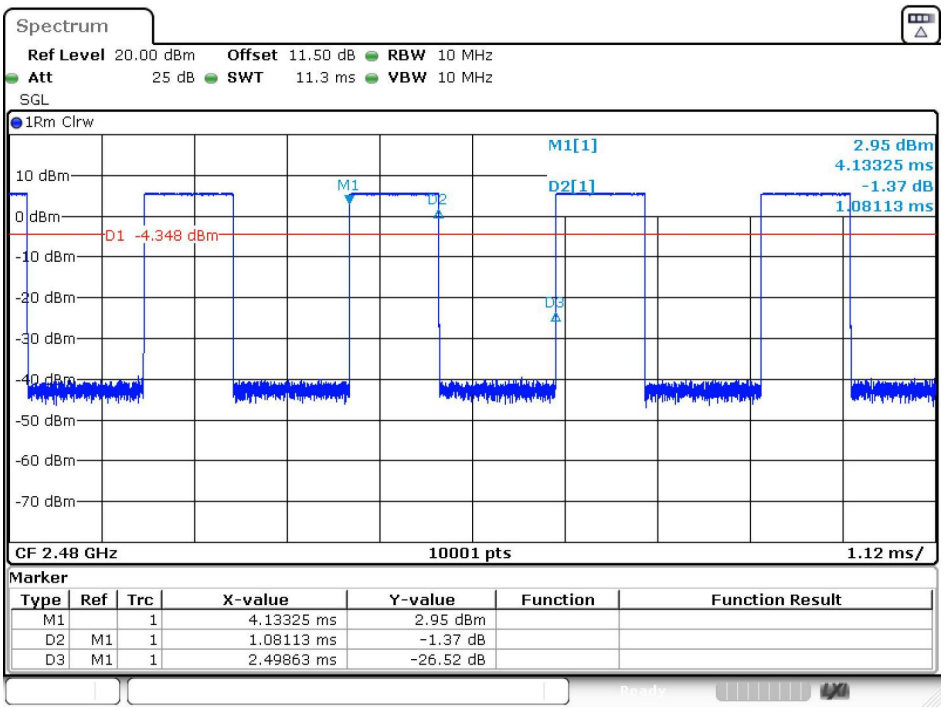
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



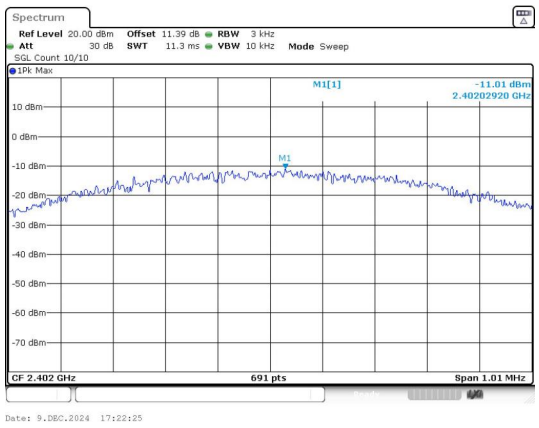
BLE 2M_Channel 39

2) Power Spectral Density

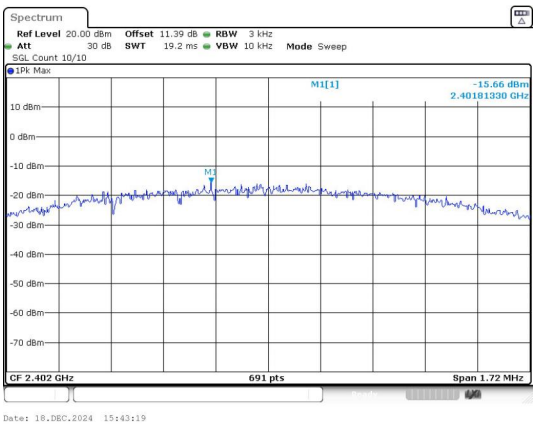
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-11.010	≤8	PASS
BLE 1M	19	-11.570	≤8	PASS
BLE 1M	39	-12.550	≤8	PASS
BLE 2M	0	-15.660	≤8	PASS
BLE 2M	19	-15.570	≤8	PASS
BLE 2M	39	-15.530	≤8	PASS

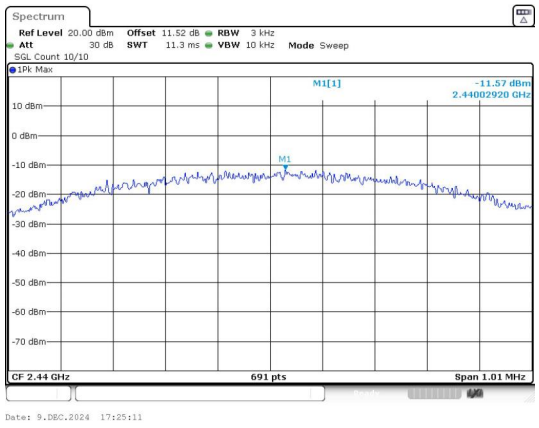
Test Graphs



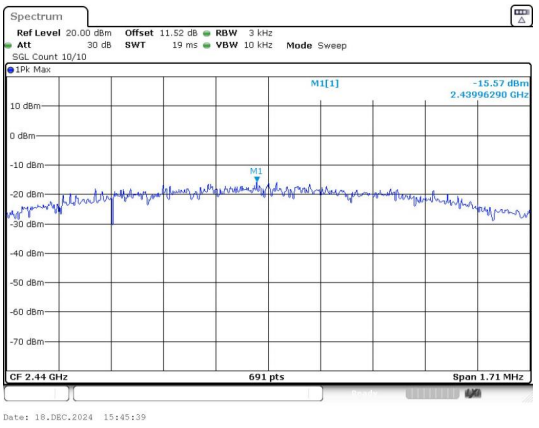
BLE 1M_Channel 0



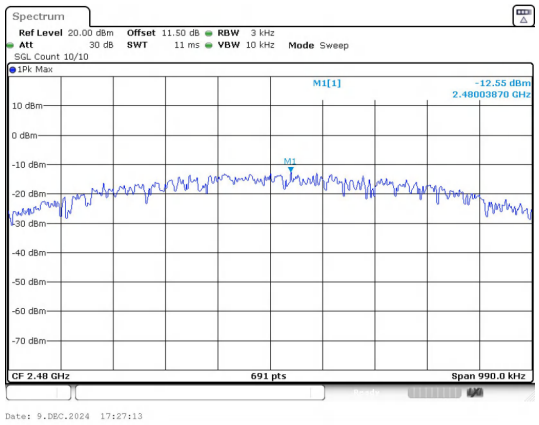
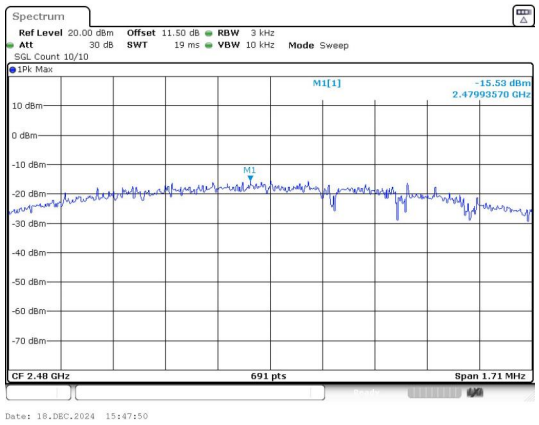
BLE 2M_Channel 0



BLE 1M_Channel 19



BLE 2M_Channel 19

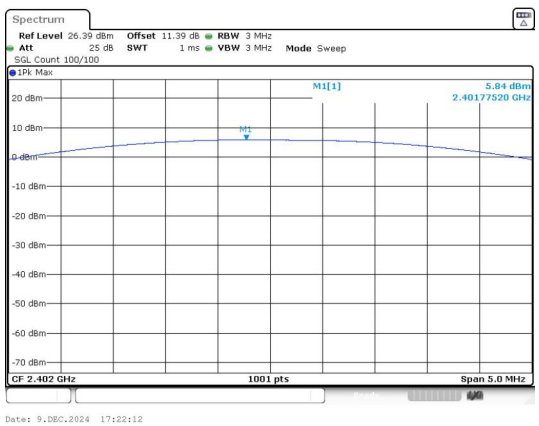
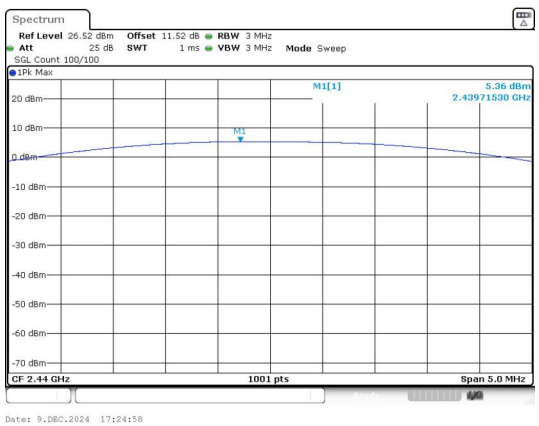
	
BLE 1M_Channel 39	BLE 2M_Channel 39

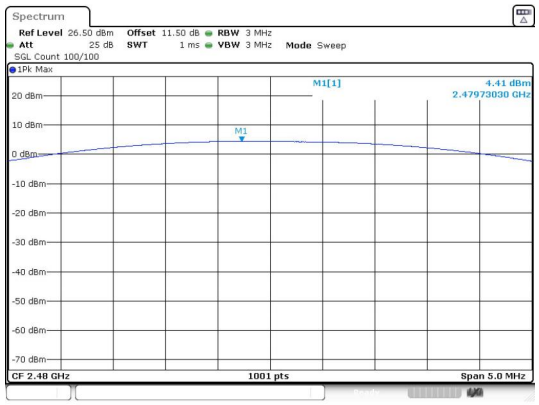
3) Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	5.84	3.84	≤30	PASS
	19	5.36	3.44	≤30	PASS
	39	4.41	2.76	≤30	PASS
BLE 2M	0	5.10	3.24	≤30	PASS
	19	5.14	3.27	≤30	PASS
	39	5.74	3.75	≤30	PASS

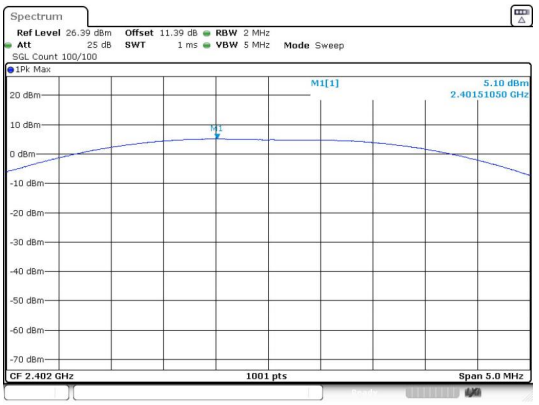
Test Graphs

	
Peak Output Power BLE 1M_Channel 0	Peak Output Power BLE 1M_Channel 19



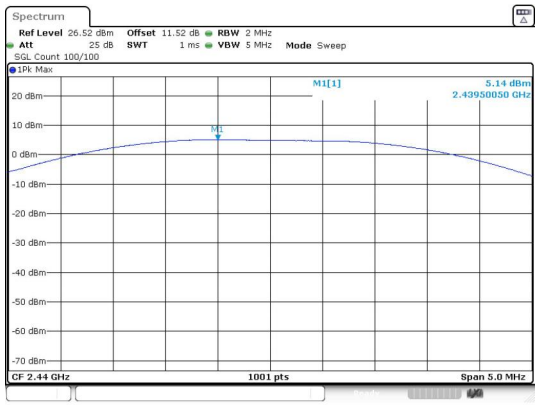
Peak Output Power

BLE 1M_Channel 39



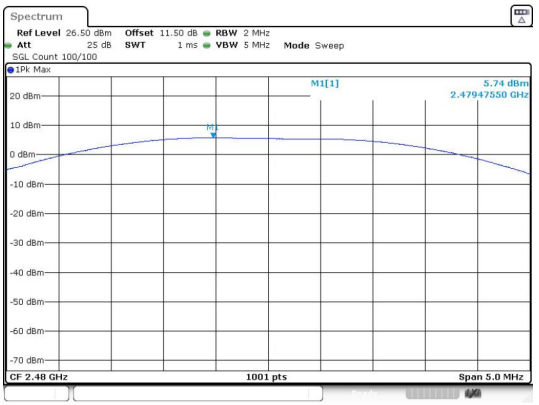
Peak Output Power

BLE 2M_Channel 0



Peak Output Power

BLE 2M_Channel 19



Peak Output Power

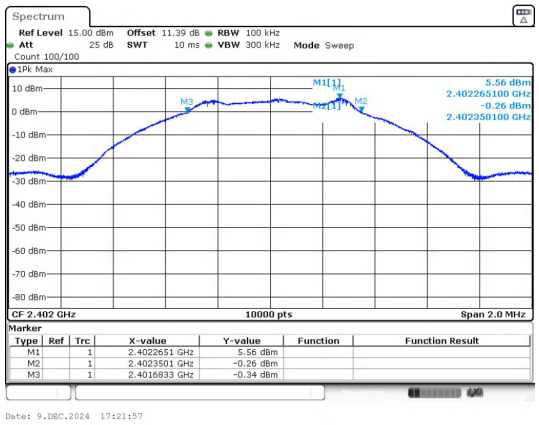
BLE 2M_Channel 39

4) 6dB Bandwidth

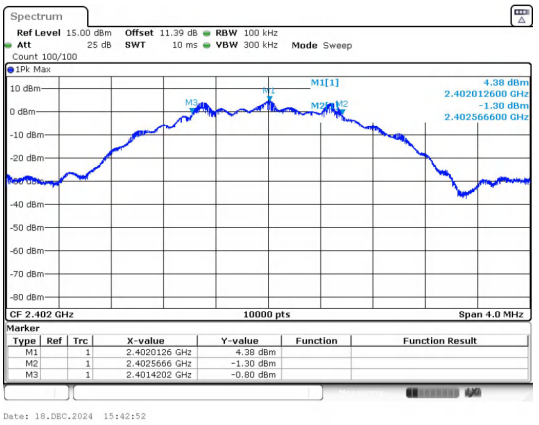
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6700	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.140		PASS
	39	2480	1.140		PASS

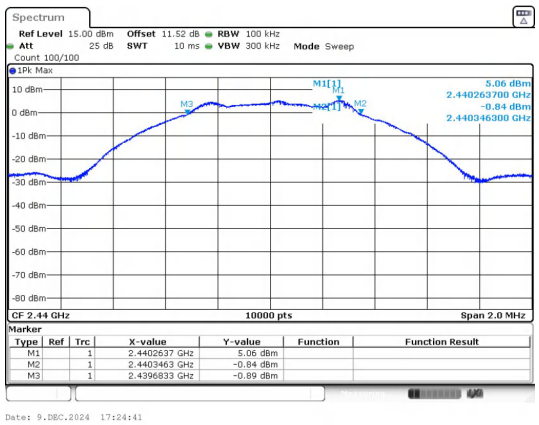
Test Graphs



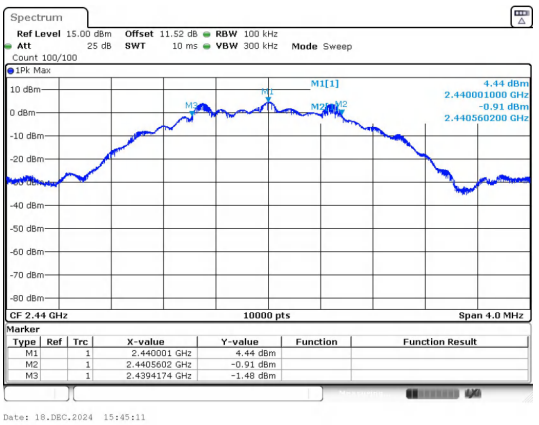
BLE 1M_Channel 0



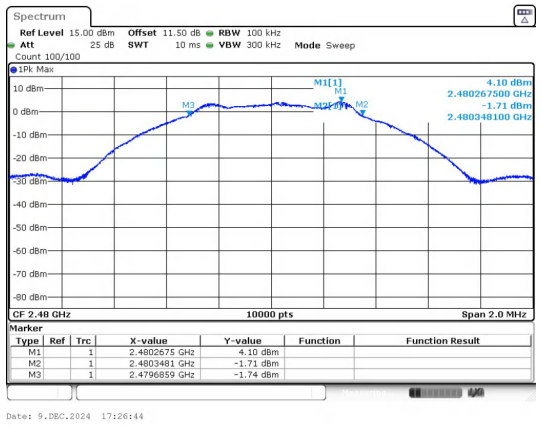
BLE 2M_Channel 0



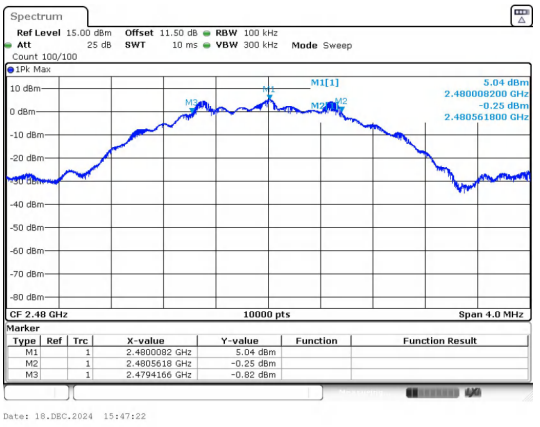
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



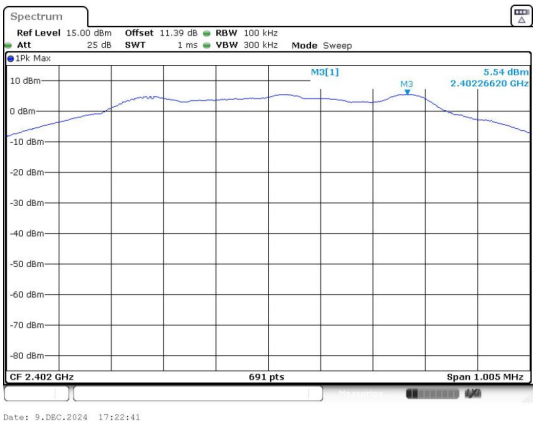
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

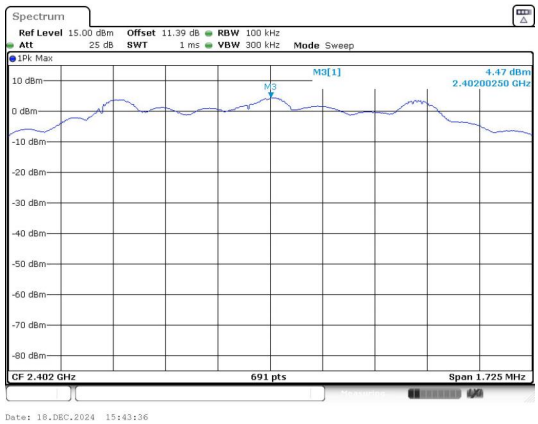
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-40.259	-14.46	-25.799	PASS
		2400.00	-41.820	-14.46	-27.360	PASS
		4804.70	-43.307	-14.46	-28.847	PASS
	19	9753.73	-39.317	-14.94	-24.377	PASS
	39	2483.50	-44.210	-15.91	-28.300	PASS
		9914.37	-40.159	-15.91	-24.249	PASS
BLE 2M	0	2400.00	-28.260	-15.53	-12.730	PASS
		9602.25	-41.986	-15.53	-26.456	PASS
	19	9753.73	-41.640	-15.52	-26.120	PASS
	39	2483.50	-46.310	-14.92	-31.390	PASS
		9914.37	-42.711	-14.92	-27.791	PASS

Test Graphs



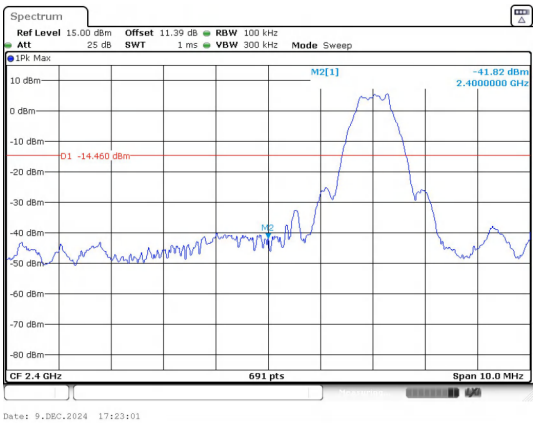
In-Band Reference Level

BLE 1M_Channel 0

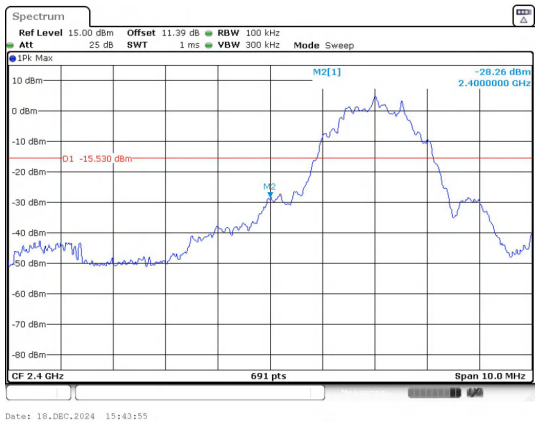


In-Band Reference Level

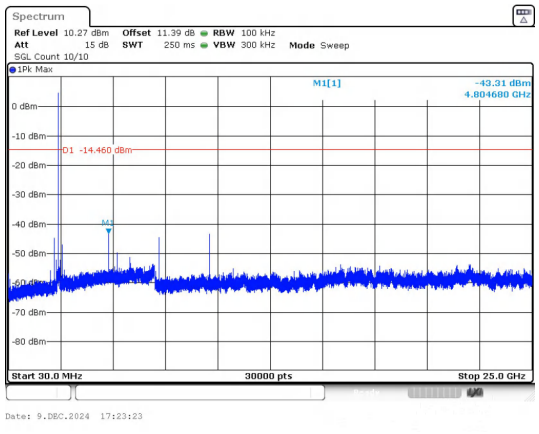
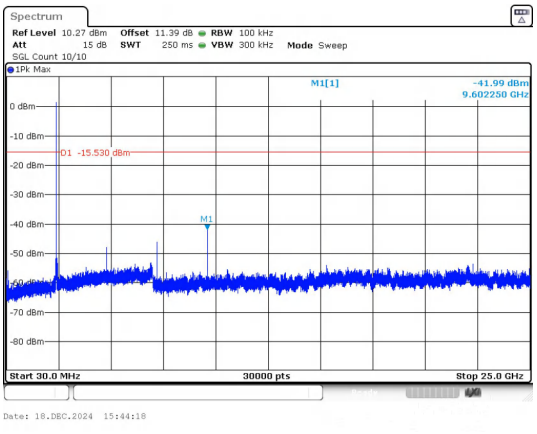
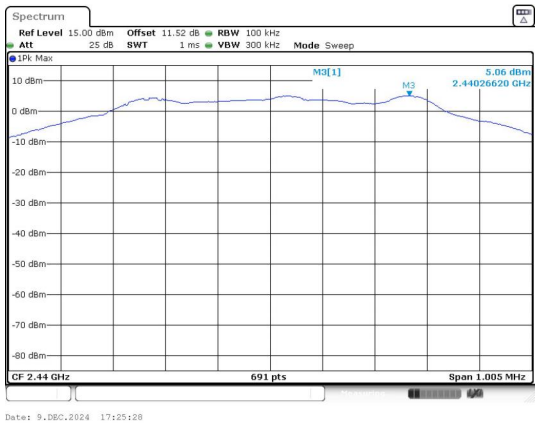
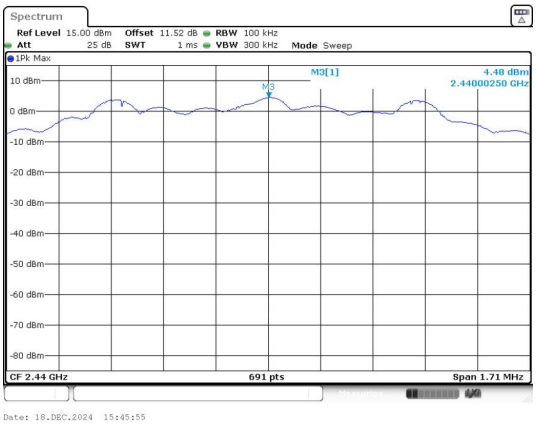
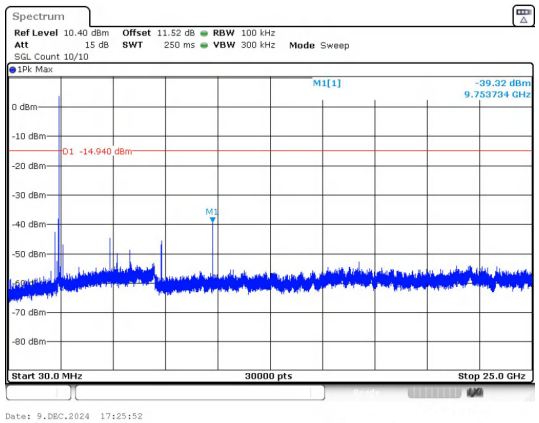
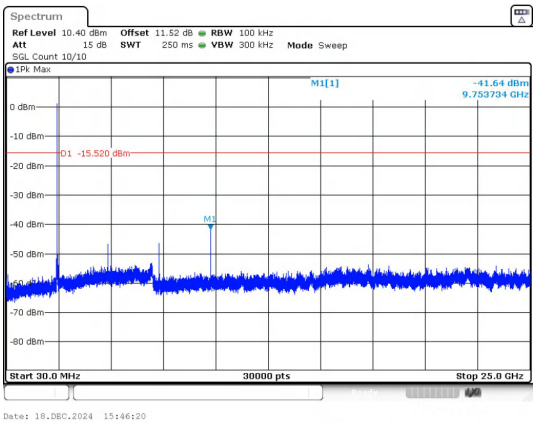
BLE 2M_Channel 0

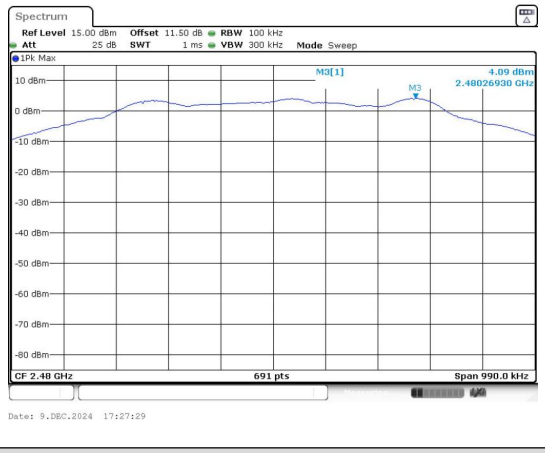


Out Of Band Emission



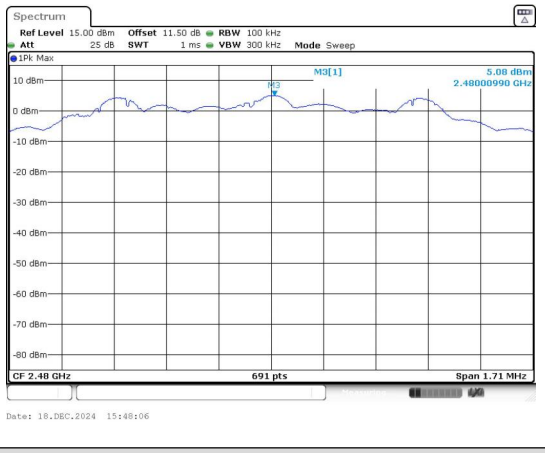
Out Of Band Emission

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



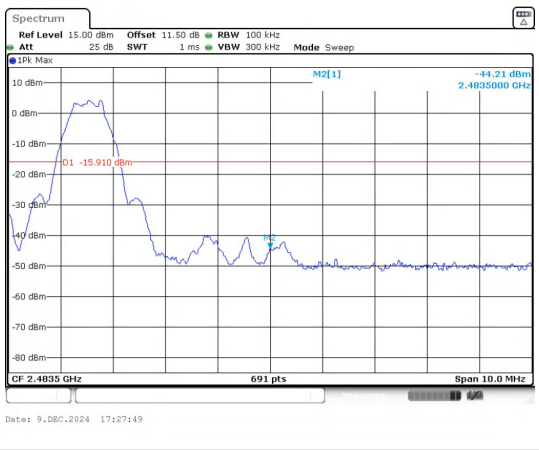
In-Band Reference Level

BLE 1M_Channel 39



In-Band Reference Level

BLE 2M_Channel 39

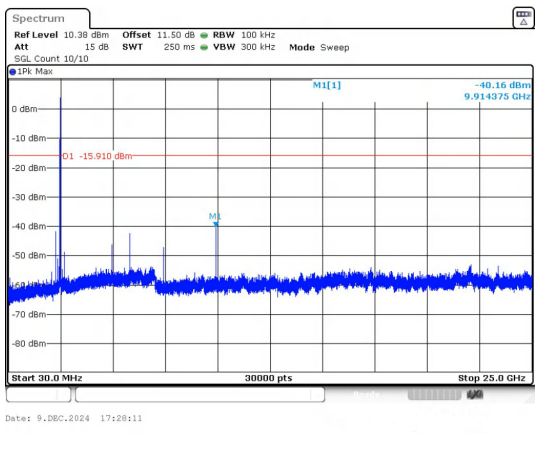


Out Of Band Emission

BLE 1M_Channel 39

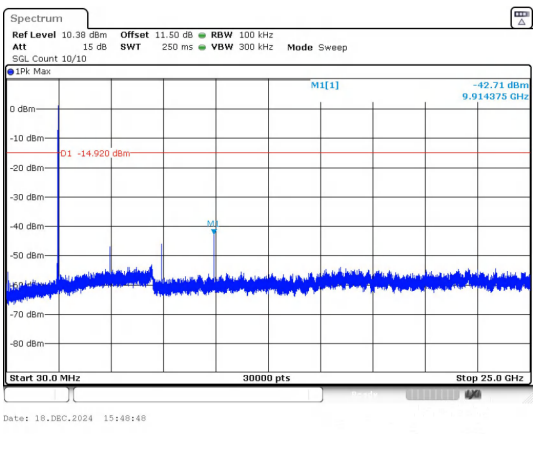
Out Of Band Emission

BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 2M_Channel 39

------End of the report-----