

Appendix Report

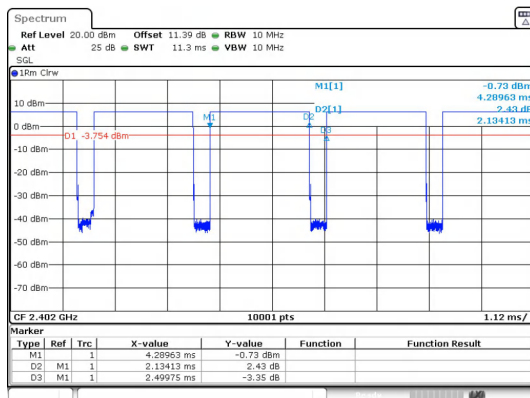
Project No.:	CISR250508012
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

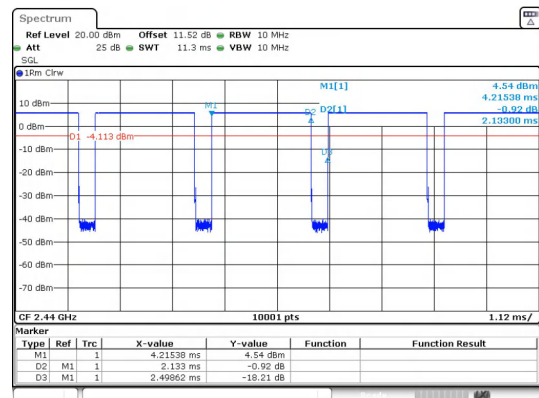
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.500	85.37	0.8537	0.6869	0.4686
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.081	2.499	43.27	0.4327	3.6381	0.9251
	39	1.081	2.499	43.27	0.4327	3.6381	0.9251

Test Graphs



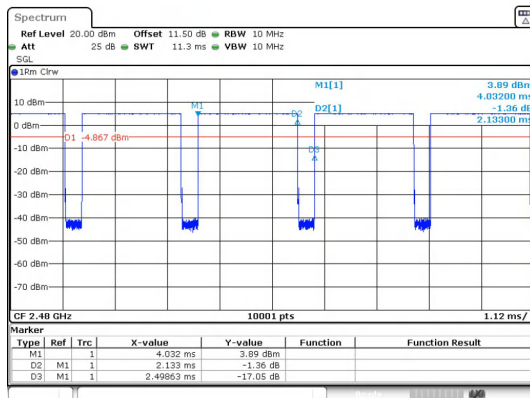
Date: 13.MAY.2025 18:31:12

BLE 1M_Channel 0



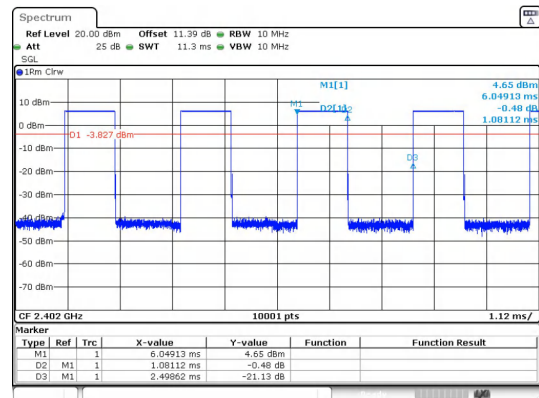
Date: 13.MAY.2025 18:34:46

BLE 1M_Channel 19



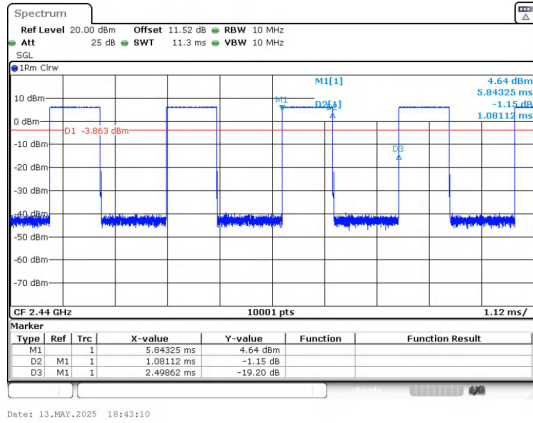
Date: 13.MAY.2025 18:37:17

BLE 1M_Channel 39

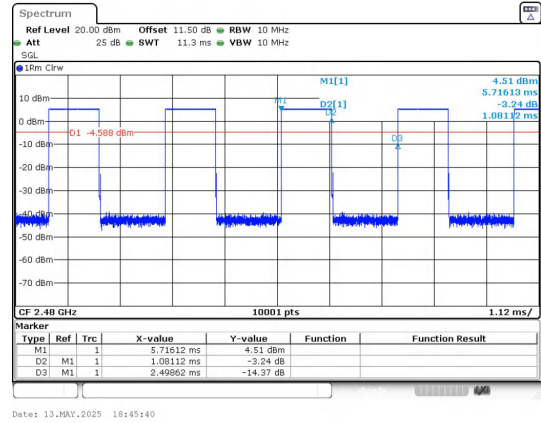


Date: 13.MAY.2025 18:40:25

BLE 2M_Channel 0



BLE 2M_Channel 19



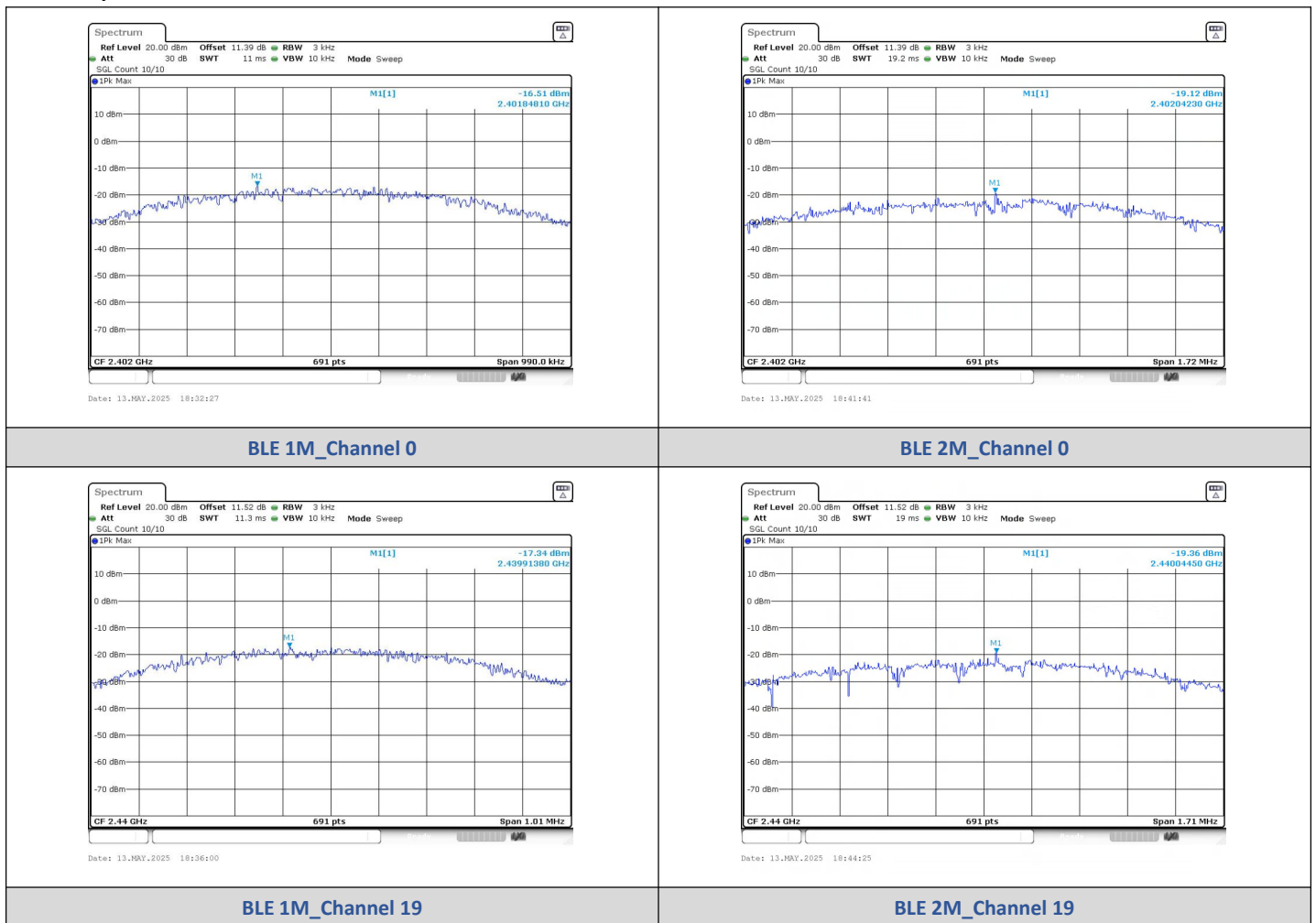
BLE 2M_Channel 39

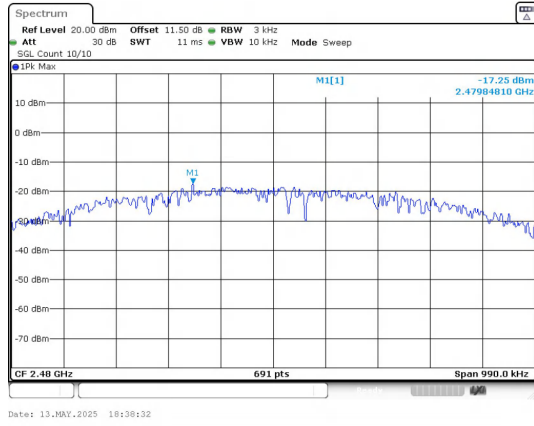
2) Power Spectral Density

Test Result

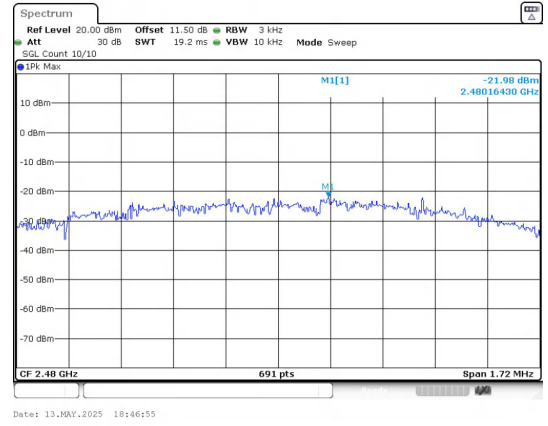
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.510	≤8	PASS
BLE 1M	19	-17.340	≤8	PASS
BLE 1M	39	-17.250	≤8	PASS
BLE 2M	0	-19.120	≤8	PASS
BLE 2M	19	-19.360	≤8	PASS
BLE 2M	39	-21.980	≤8	PASS

Test Graphs





BLE 1M_Channel 39



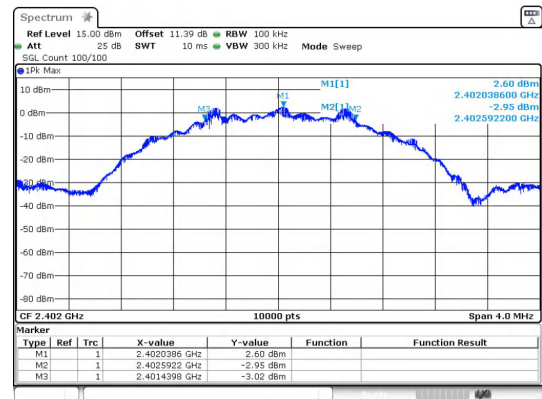
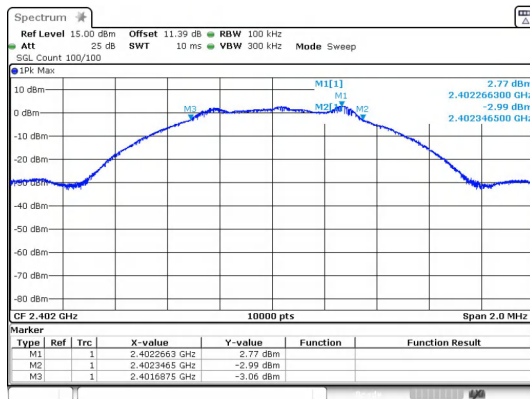
BLE 2M_Channel 39

3) 6dB Bandwidth

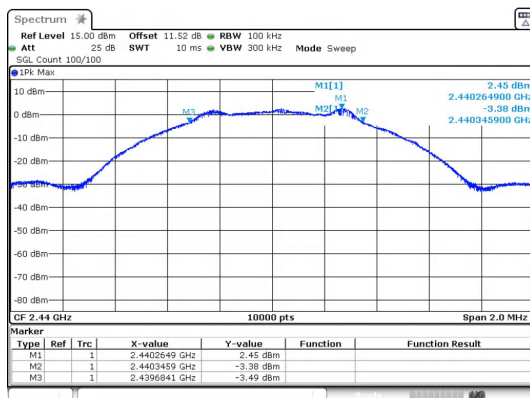
Test Result

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

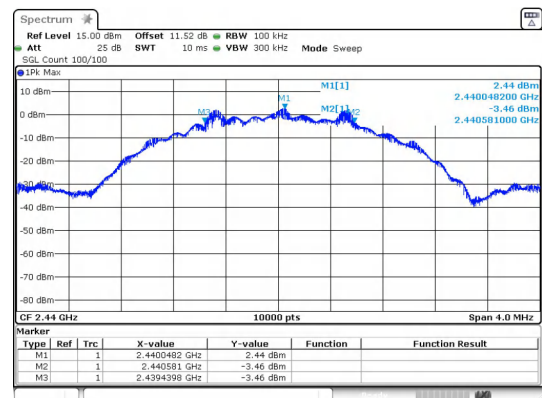
Test Graphs



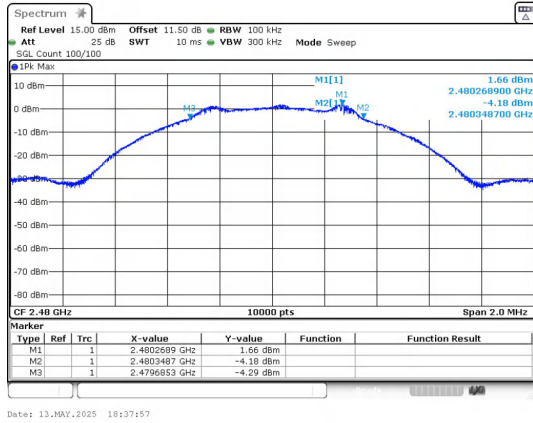
BLE 1M_Channel 0



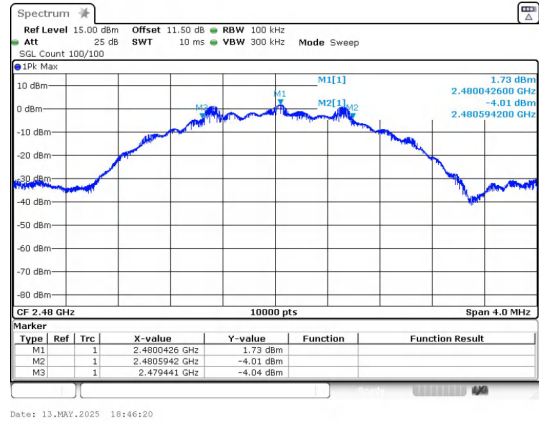
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



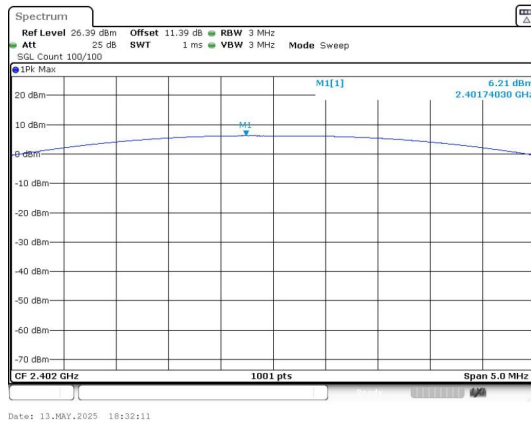
BLE 2M_Channel 39

4) Conducted Output Power

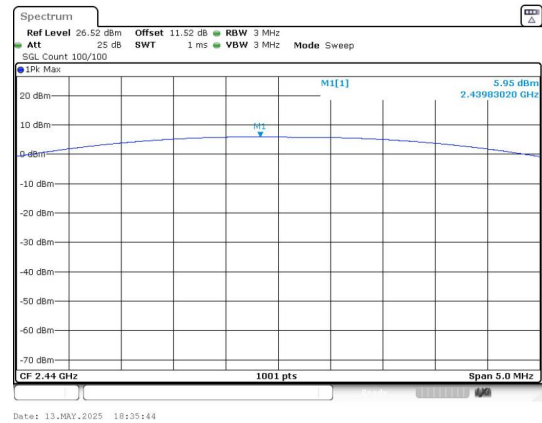
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.21	4.18	≤30	PASS
	19	5.95	3.94	≤30	PASS
	39	5.18	3.3	≤30	PASS
BLE 2M	0	6.31	4.28	≤30	PASS
	19	6.19	4.16	≤30	PASS
	39	5.47	3.52	≤30	PASS

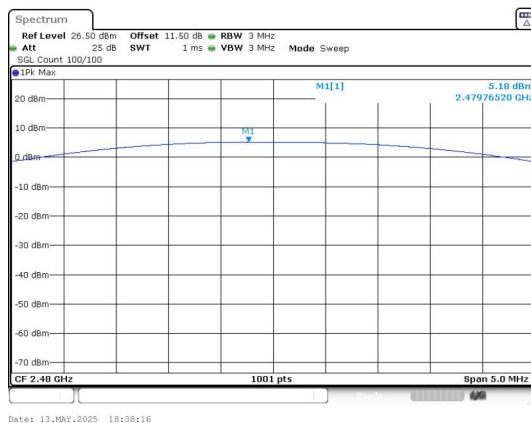
Test Graphs



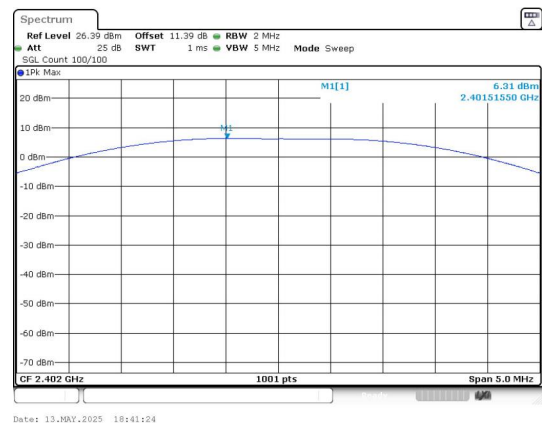
Peak Output Power
BLE 1M_Channel 0



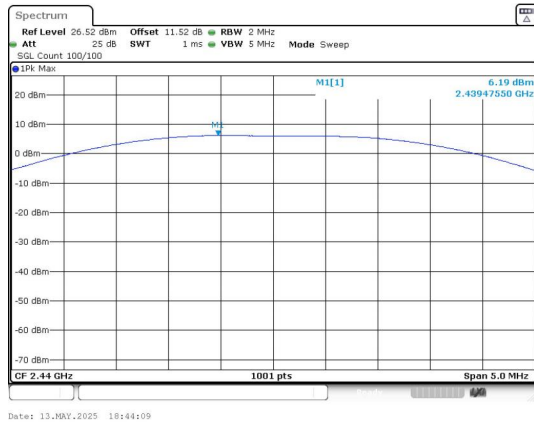
Peak Output Power
BLE 1M_Channel 19



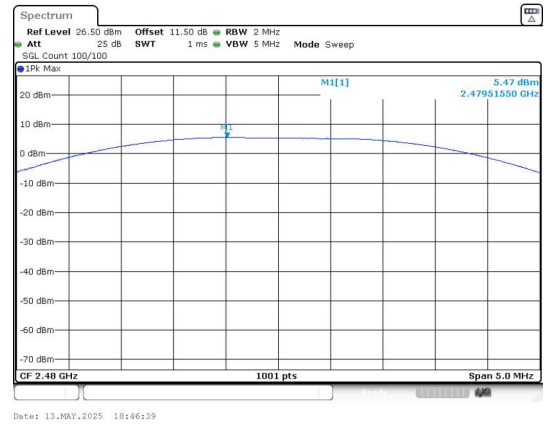
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



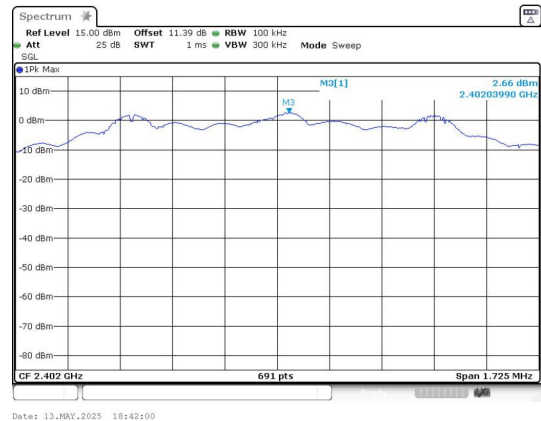
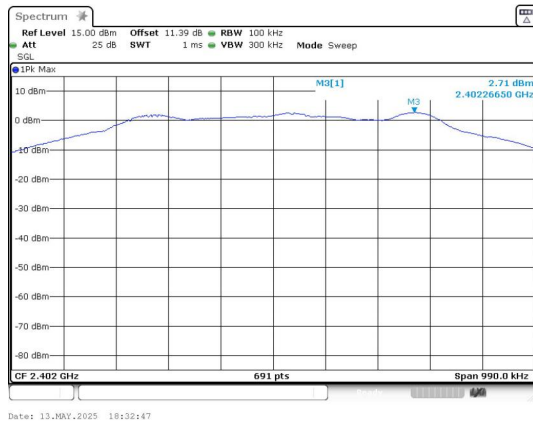
Peak Output Power
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

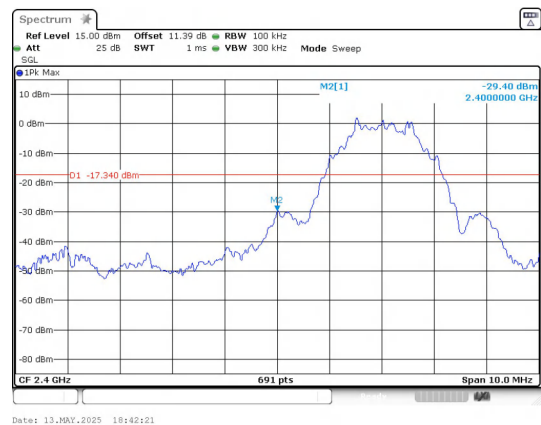
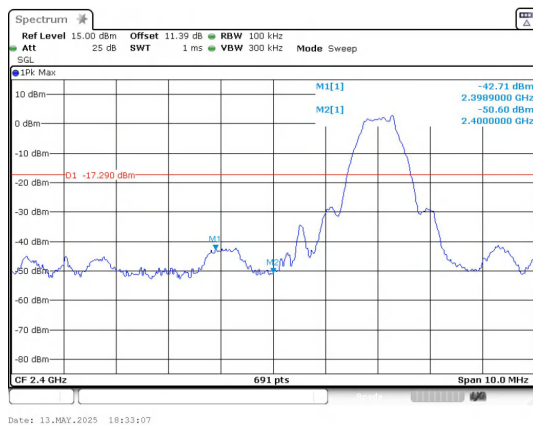
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.90	-42.708	-17.29	-25.418	PASS
		2400.00	-50.600	-17.29	-33.310	PASS
		7205.10	-42.268	-17.29	-24.978	PASS
	19	9753.73	-45.048	-17.57	-27.478	PASS
	39	2483.50	-47.410	-18.33	-29.080	PASS
		9914.37	-43.255	-18.33	-24.925	PASS
BLE 2M	0	2400.00	-29.400	-17.34	-12.060	PASS
		7207.63	-45.304	-17.34	-27.964	PASS
	19	9753.73	-45.141	-17.51	-27.631	PASS
	39	2483.50	-50.130	-18.26	-31.870	PASS
		9914.37	-42.867	-18.26	-24.607	PASS

Test Graphs



In-Band Reference Level
BLE 1M_Channel 0

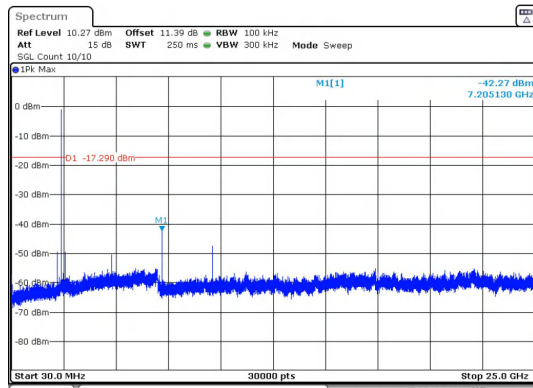
In-Band Reference Level
BLE 2M_Channel 0



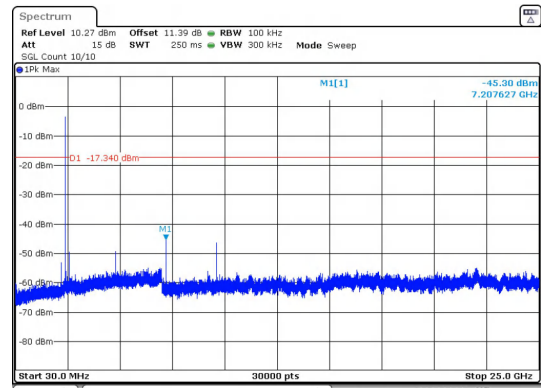
Out Of Band Emission

Out Of Band Emission

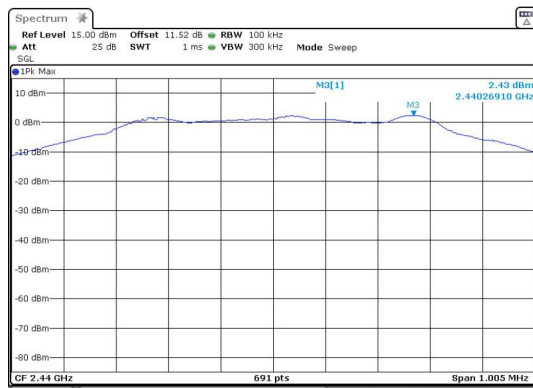
BLE 1M_Channel 0



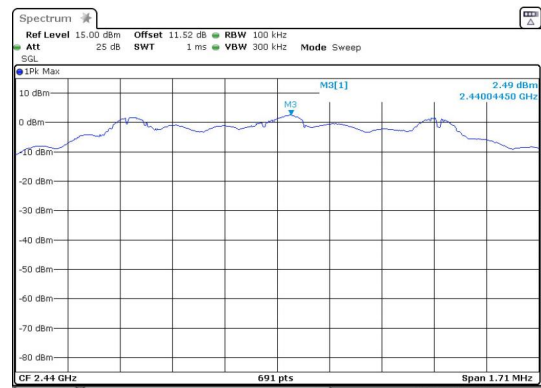
BLE 2M_Channel 0



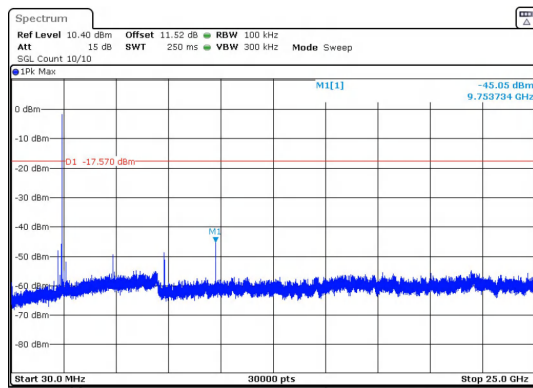
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



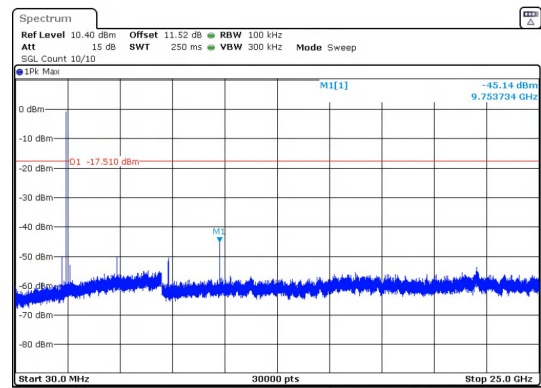
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19

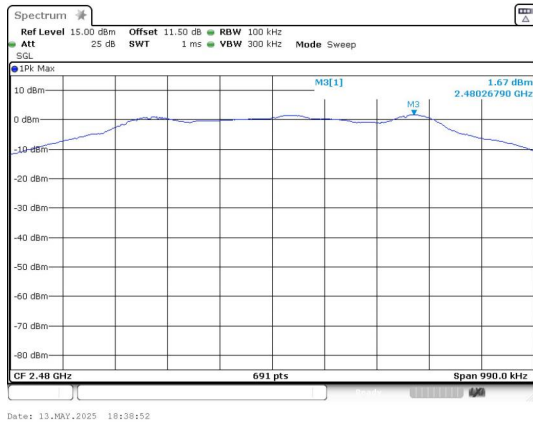


30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

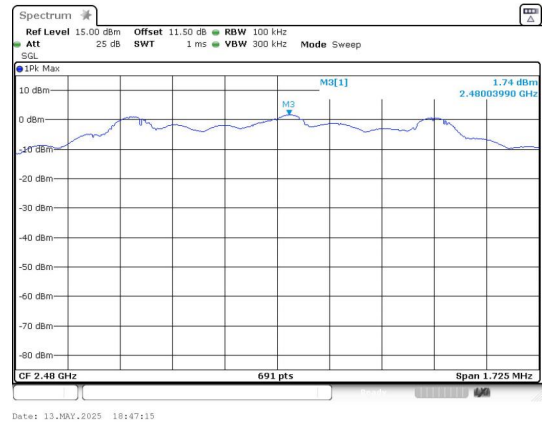


30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19

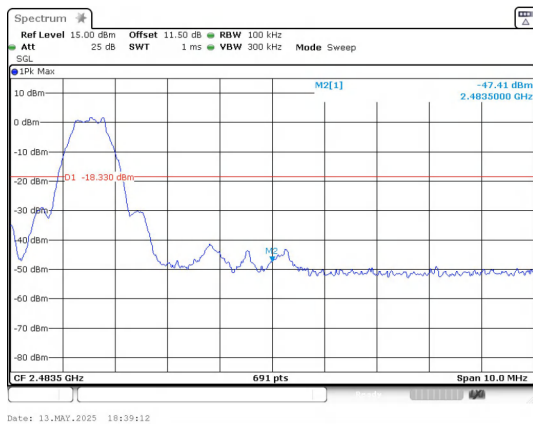




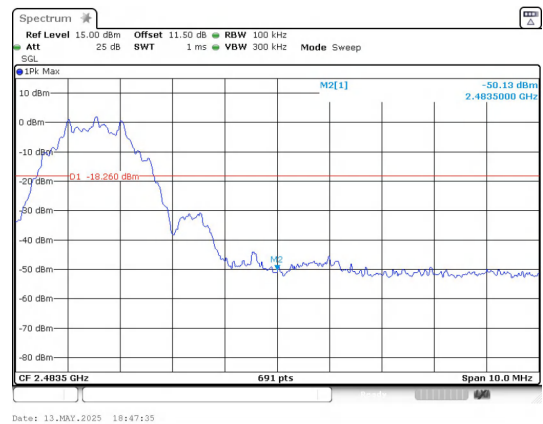
**In-Band Reference Level
BLE 1M_Channel 39**



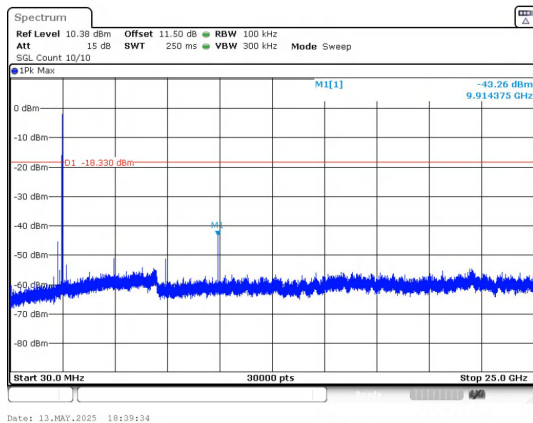
**In-Band Reference Level
BLE 2M_Channel 39**



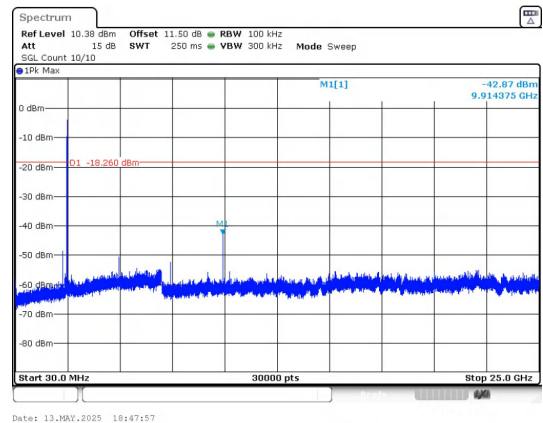
**Out Of Band Emission
BLE 1M_Channel 39**



**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-----