Appendix Report

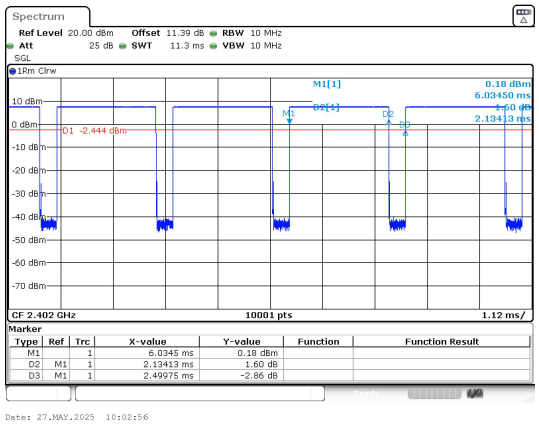
Project No.:	CISR250522131
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

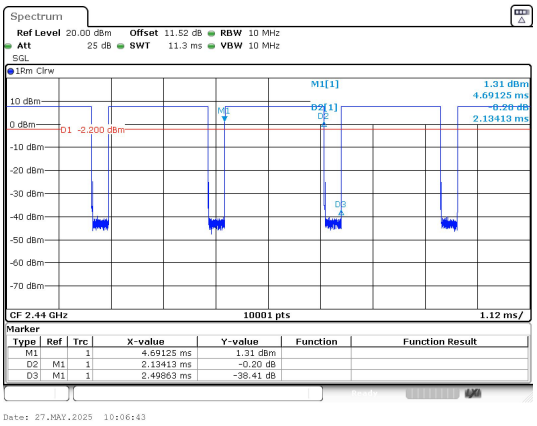
Test Result

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	2.134	2.499	85.41	0.8541	0.6849	0.4686
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688

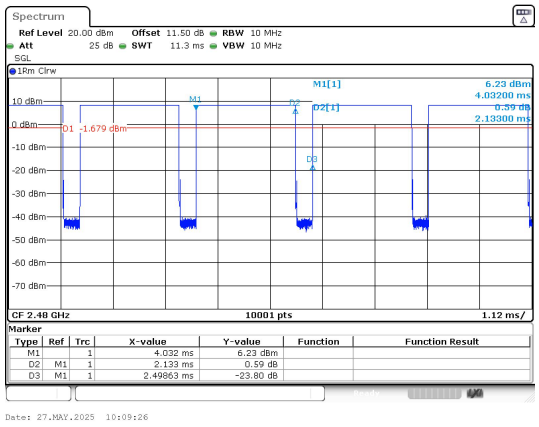
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



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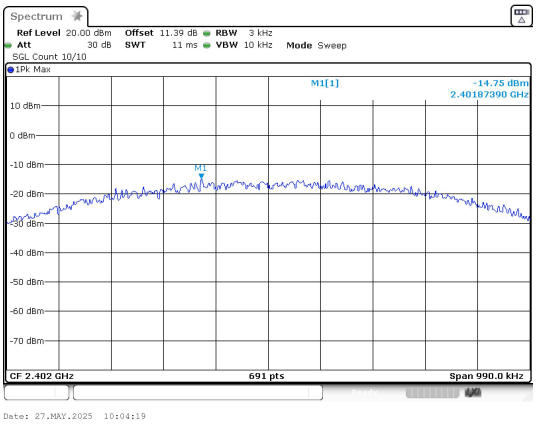
2) Power Spectral Density

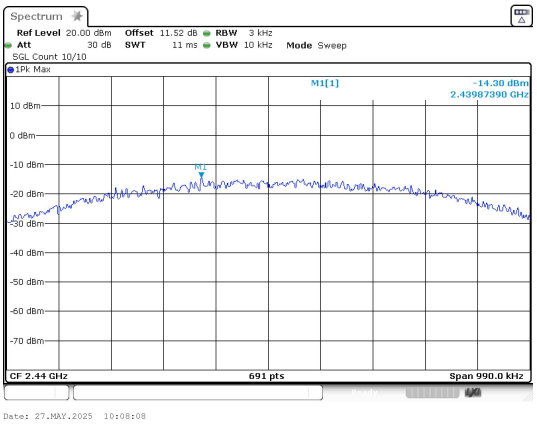
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.750	≤8	PASS
BLE 1M	19	-14.300	≤8	PASS
BLE 1M	39	-13.970	≤8	PASS

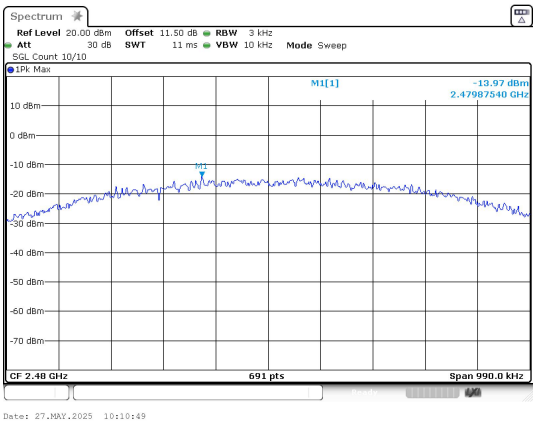
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



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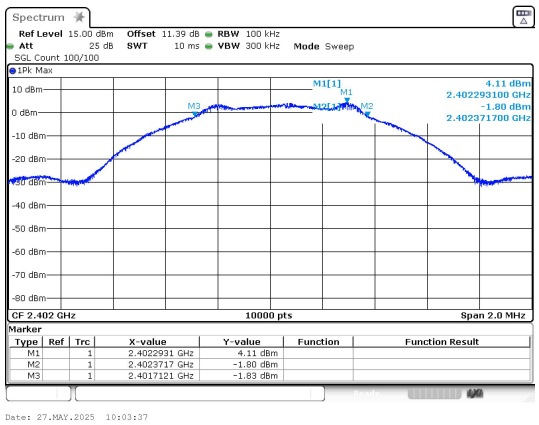
3) 6dB Bandwidth

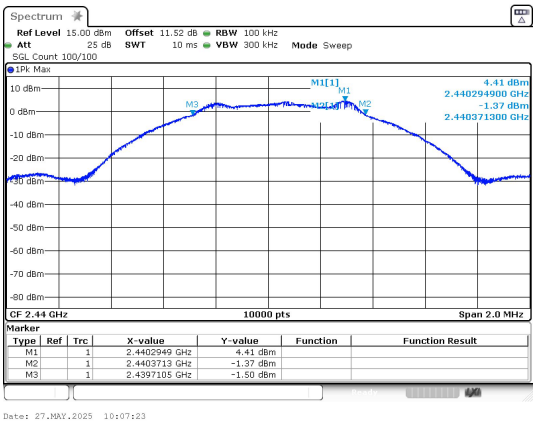
Test Result

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

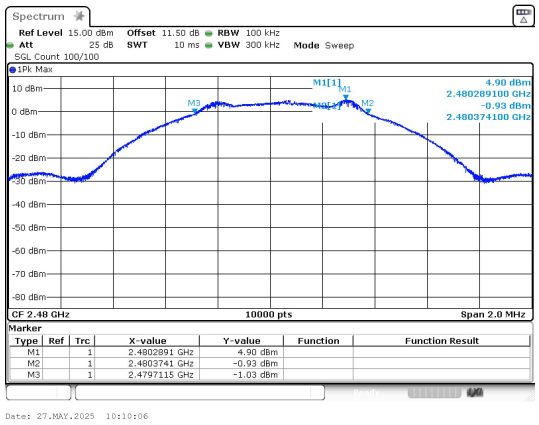
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



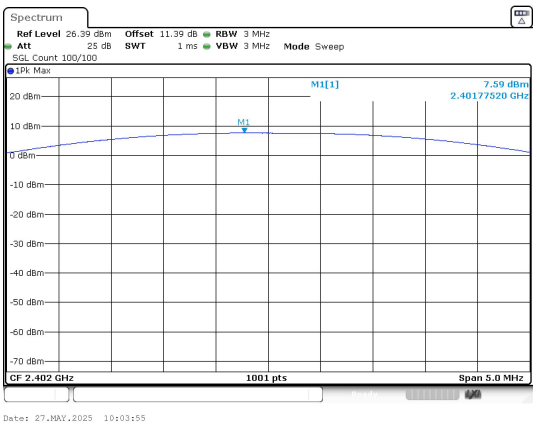
BLE 1M_Channel 39

4) Conducted Output Power

Test Result

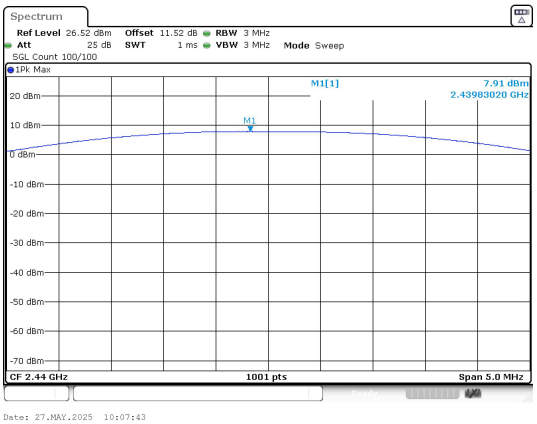
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	7.59	5.74	≤30	PASS
	19	7.91	6.18	≤30	PASS
	39	8.32	6.79	≤30	PASS

Test Graphs



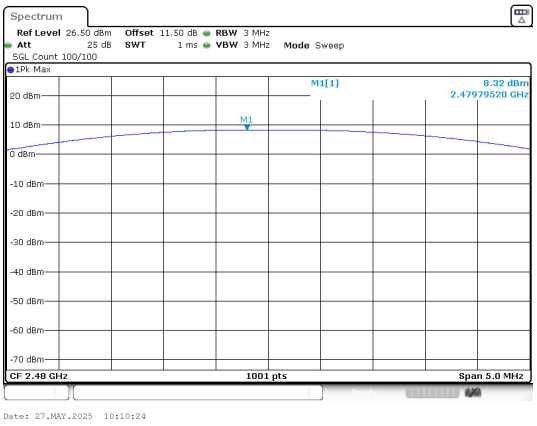
Peak Output Power

BLE 1M_Channel 0



Peak Output Power

BLE 1M_Channel 19



Peak Output Power

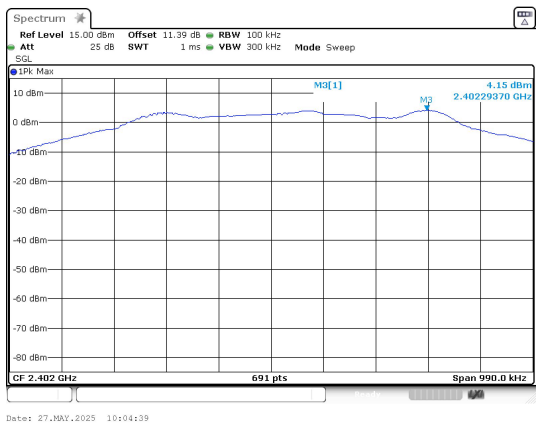
BLE 1M_Channel 39

5) Conducted Out Of Band Emission

Test Result

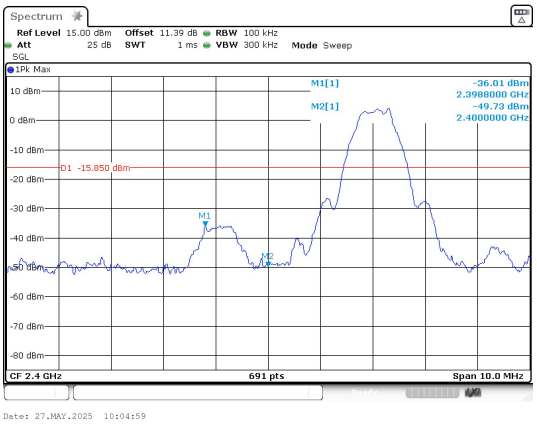
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2248.60	-48.250	-15.85	-32.400	PASS
		2398.80	-36.013	-15.85	-20.163	PASS
		2400.00	-49.730	-15.85	-33.880	PASS
	19	2632.29	-47.756	-15.63	-32.126	PASS
	39	2288.54	-46.211	-15.08	-31.131	PASS
		2483.50	-47.500	-15.08	-32.420	PASS

Test Graphs



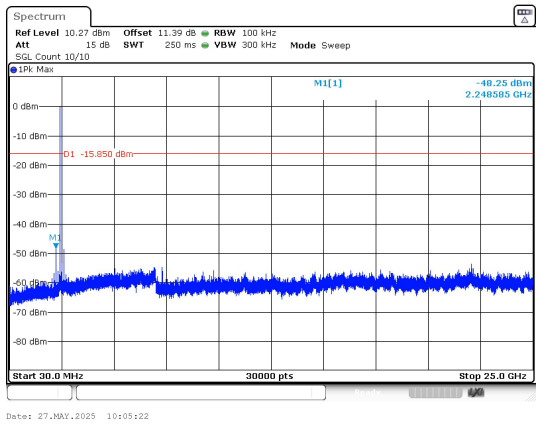
In-Band Reference Level

BLE 1M_Channel 0



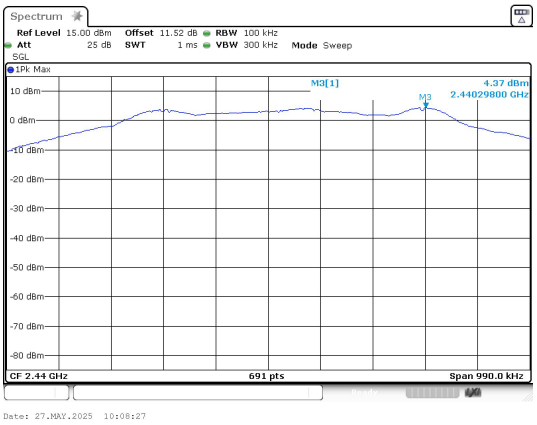
Out Of Band Emission

BLE 1M_Channel 0



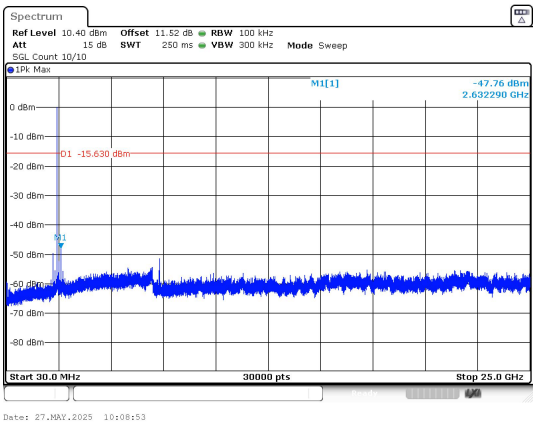
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



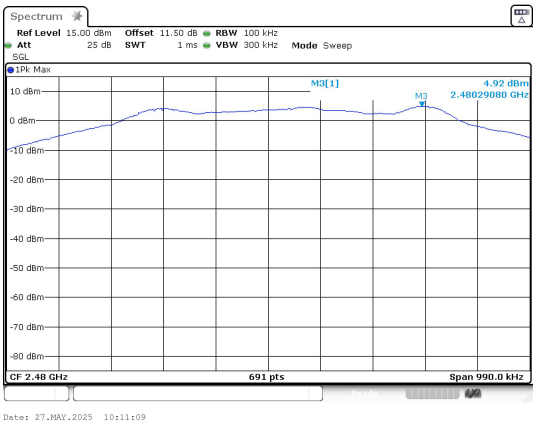
In-Band Reference Level

BLE 1M_Channel 19



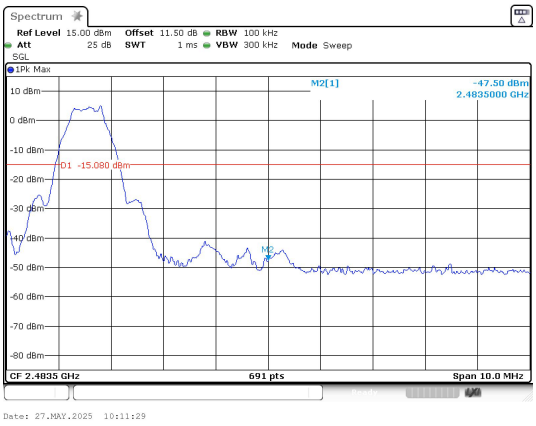
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



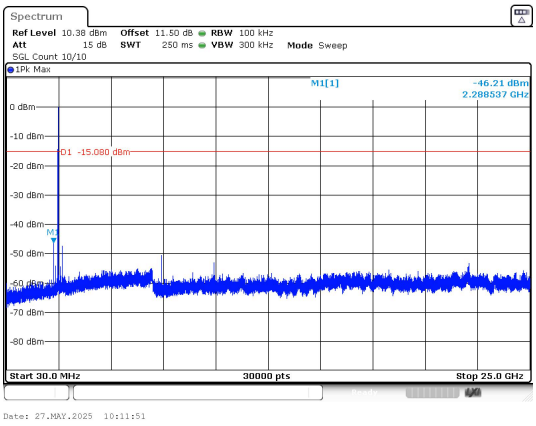
In-Band Reference Level

BLE 1M_Channel 39



Out Of Band Emission

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39

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