Appendix

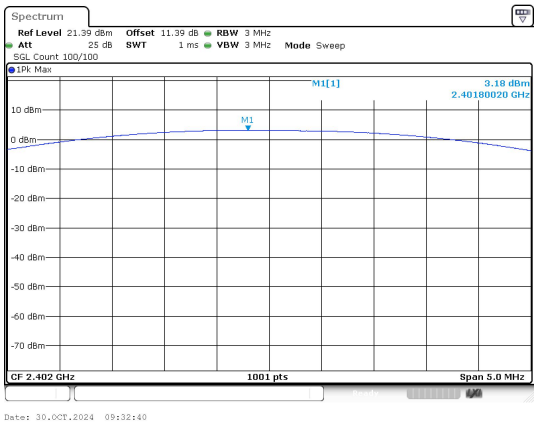
Report No.:	CISRR241026158
FCC ID:	2BLXL-X9
Product Name:	X9 bracket translation machine
Model No.:	X9
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Output Power

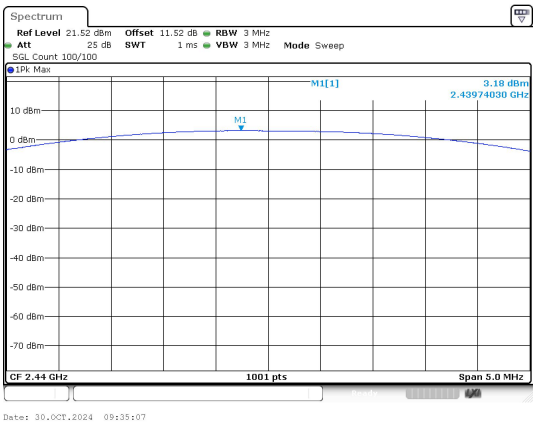
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	3.18	2.08	≤30	PASS
	19	3.18	2.08	≤30	PASS
	39	3.09	2.04	≤30	PASS

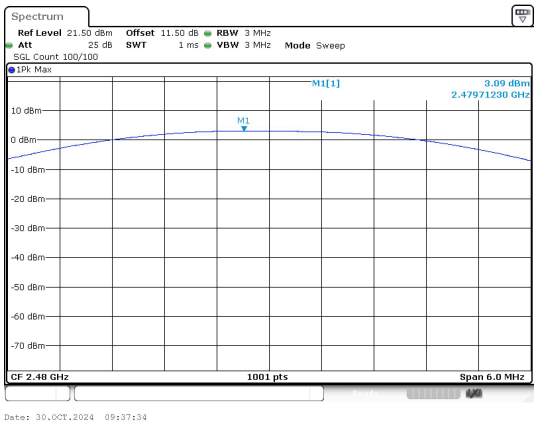
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



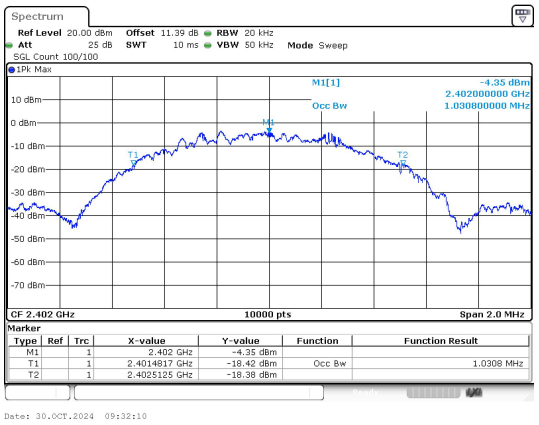
Peak Output Power
BLE 1M_Channel 39

2) 99% Bandwidth

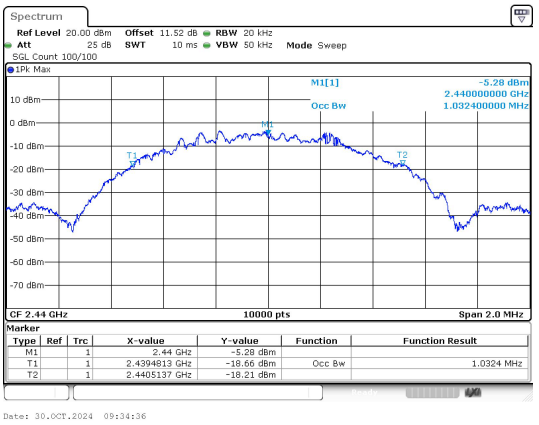
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0308
BLE 1M	19	2440	1.0324
BLE 1M	39	2480	1.0300

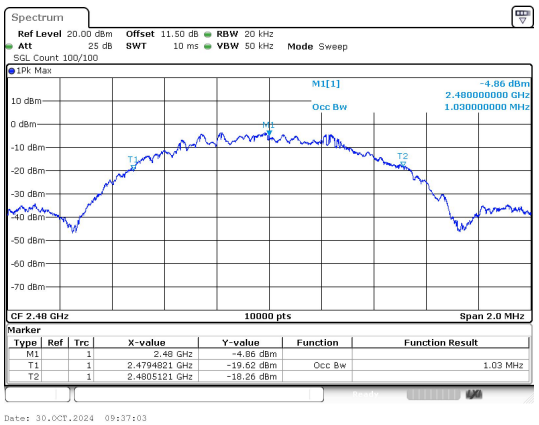
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



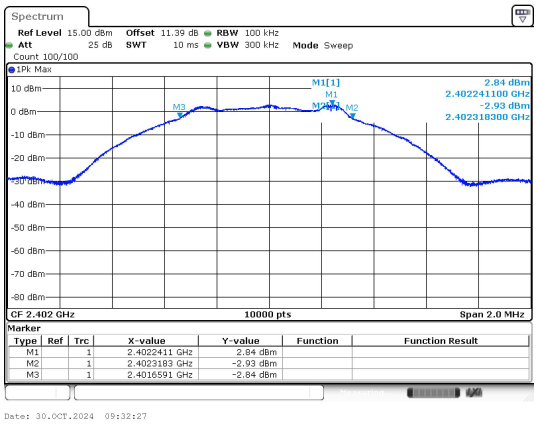
BLE 1M_Channel 39

3) 6dB Bandwidth

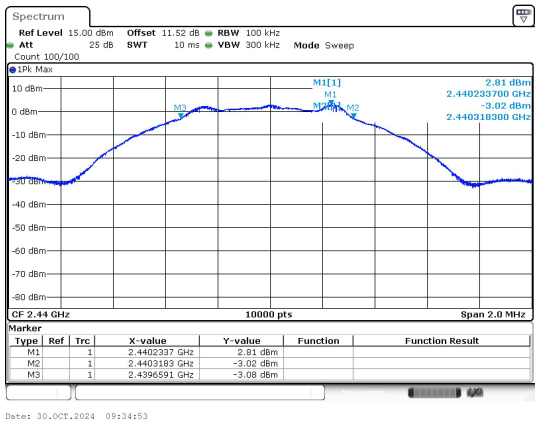
Test Result

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

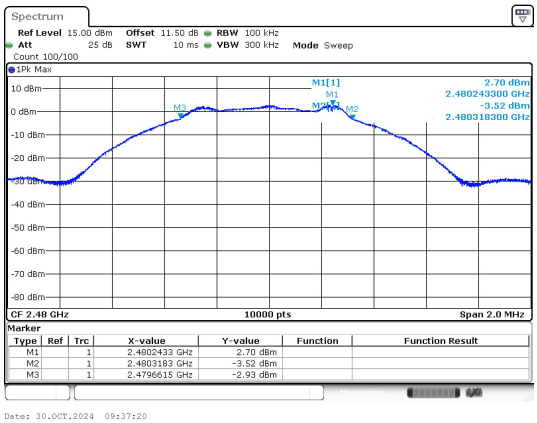
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



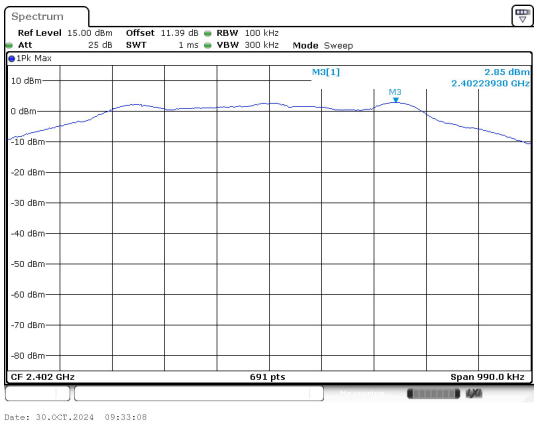
BLE 1M_Channel 39

4) Conducted Out Of Band Emission

Test Result

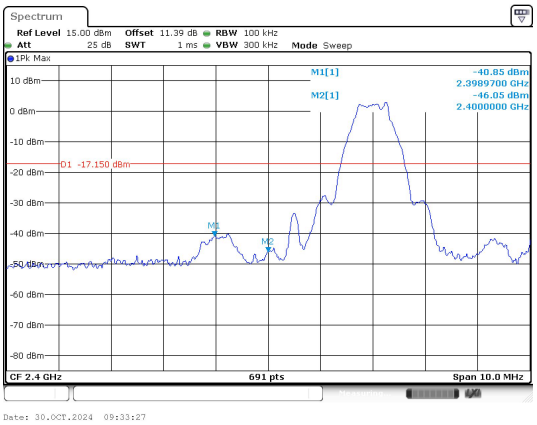
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.97	-40.846	-17.15	-23.696	PASS
		2400.00	-46.052	-17.15	-28.902	PASS
		9602.20	-43.333	-17.15	-26.183	PASS
	19	9753.73	-41.961	-17.2	-24.761	PASS
	39	2483.50	-42.063	-17.24	-24.823	PASS
		9914.37	-41.472	-17.24	-24.232	PASS

Test Graphs



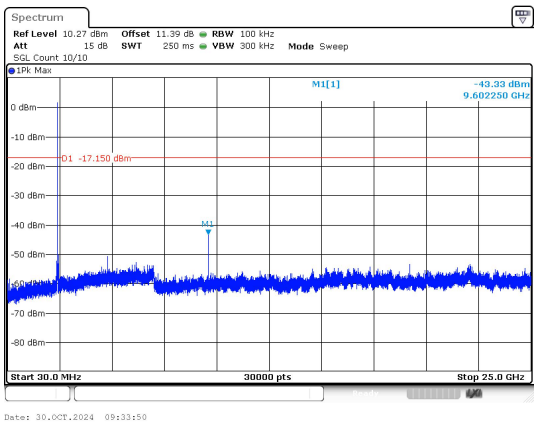
In-Band Reference Level

BLE 1M_Channel 0



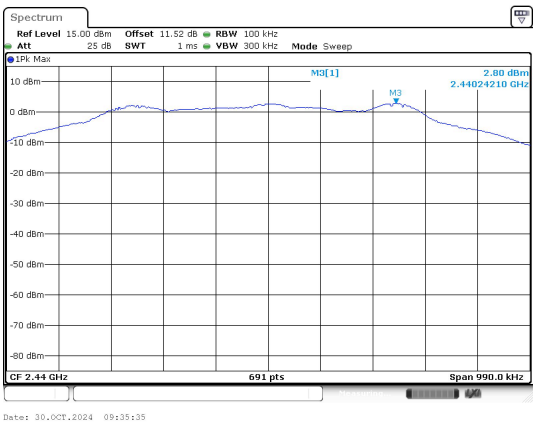
Out Of Band Emission

BLE 1M_Channel 0



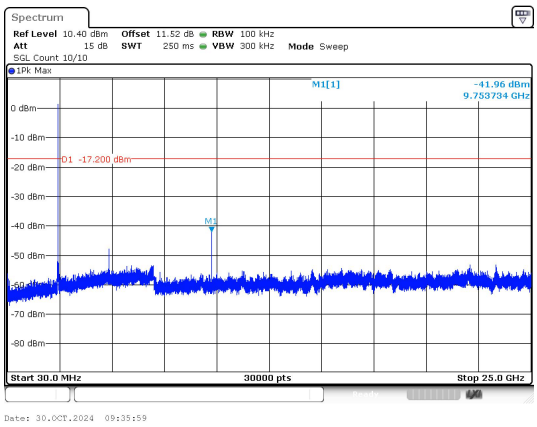
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



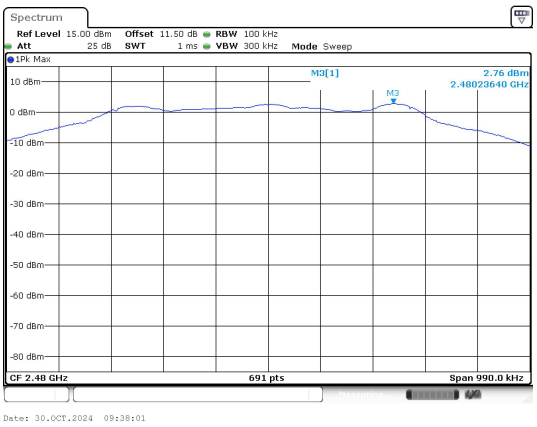
In-Band Reference Level

BLE 1M_Channel 19



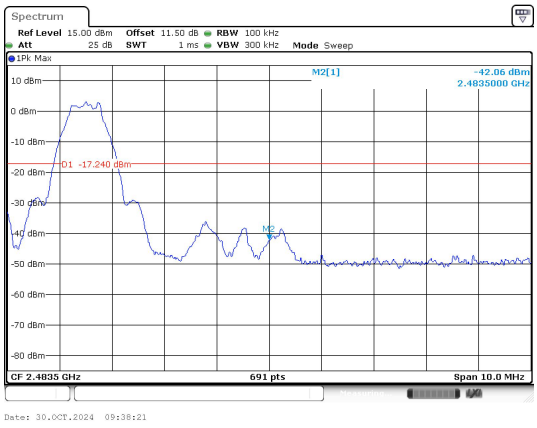
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



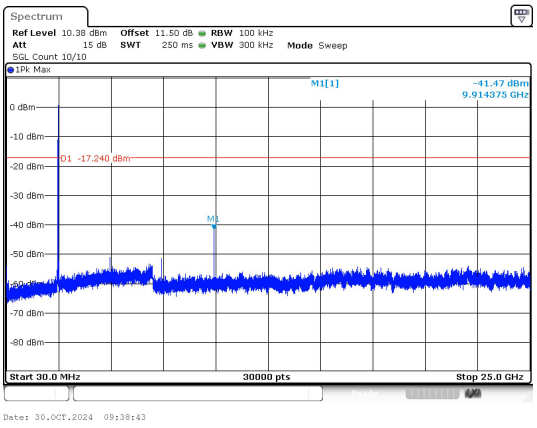
In-Band Reference Level

BLE 1M_Channel 39



Out Of Band Emission

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

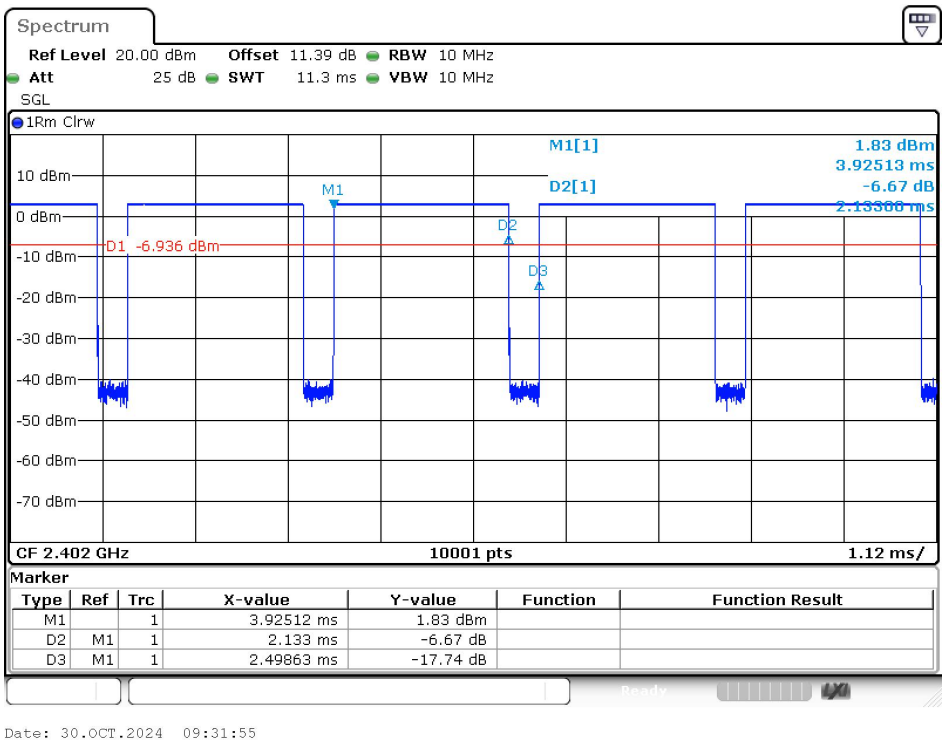
BLE 1M_Channel 39

5) Duty Cycle

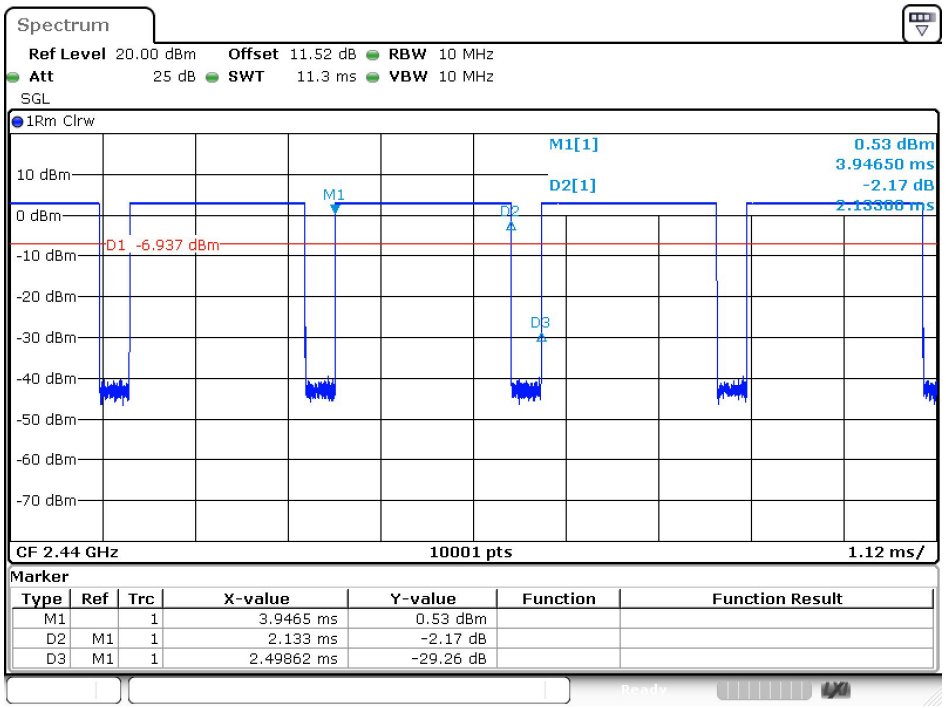
Test Result

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	0.4688
	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

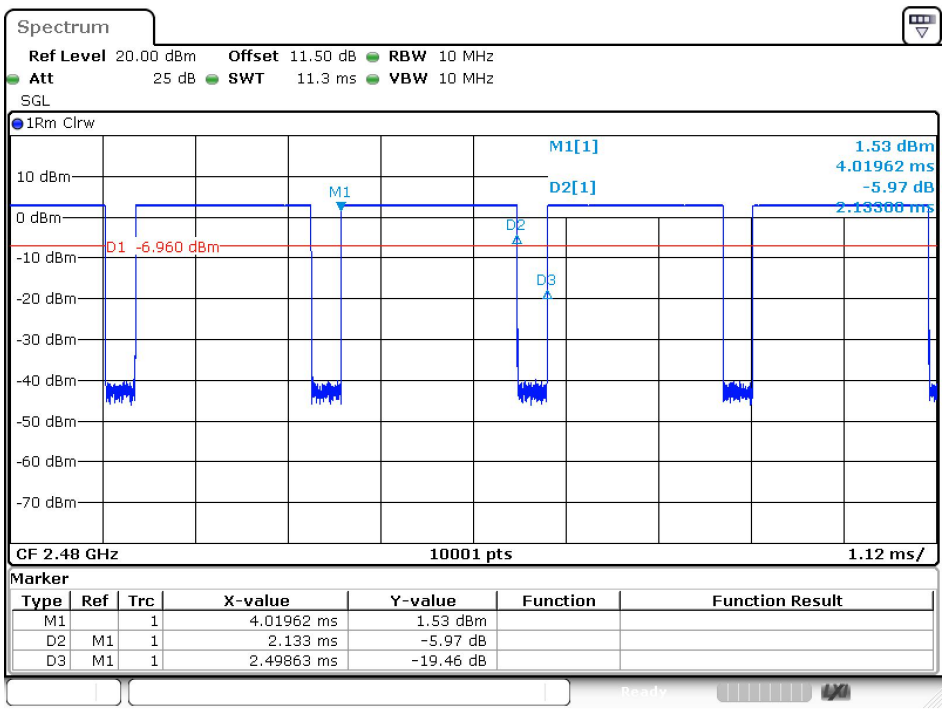
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



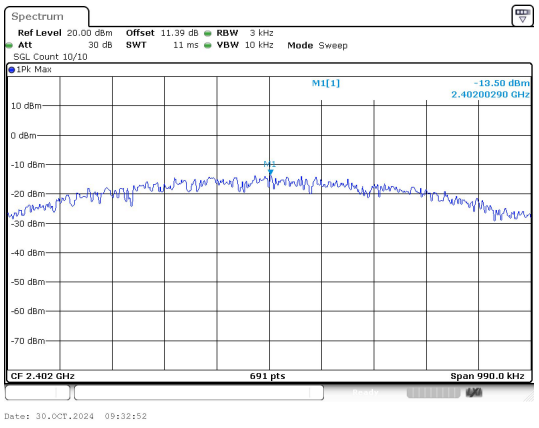
BLE 1M_Channel 39

6) Power Spectral Density

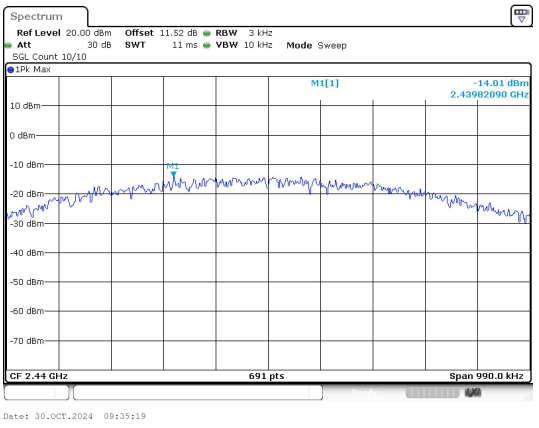
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.501	≤8	PASS
BLE 1M	19	-14.013	≤8	PASS
BLE 1M	39	-13.335	≤8	PASS

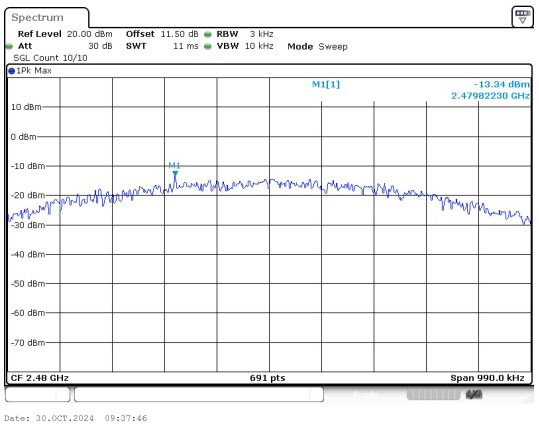
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39