

Appendix Report

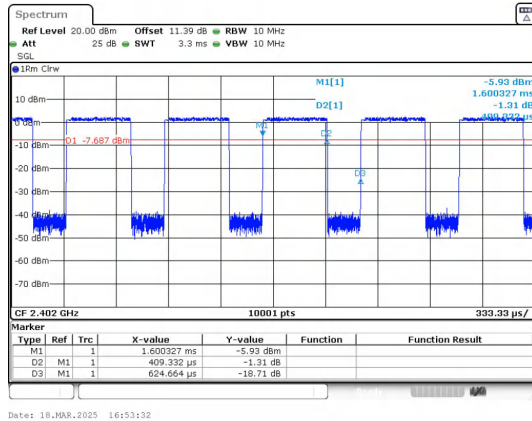
Report No.:	CISRR25022110404
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Duty Cycle

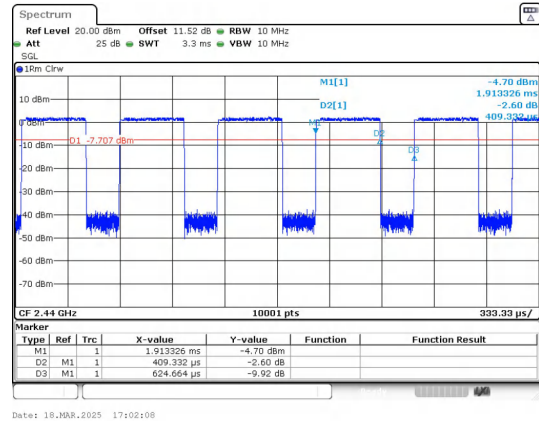
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	0.409	0.625	65.53	0.6553	1.8356	2.4450
	19	0.409	0.625	65.53	0.6553	1.8356	2.4450
	39	0.409	0.625	65.53	0.6553	1.8356	2.4450
BLE 2M	0	0.225	0.625	36.07	0.3607	4.4285	4.4444
	19	0.226	0.625	36.13	0.3613	4.4213	4.4248
	39	0.226	0.625	36.13	0.3613	4.4213	4.4248

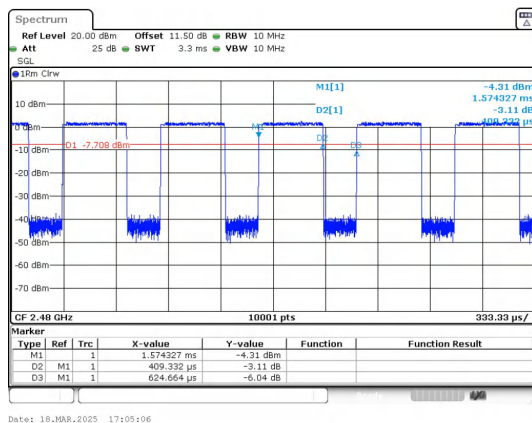
Test Graphs



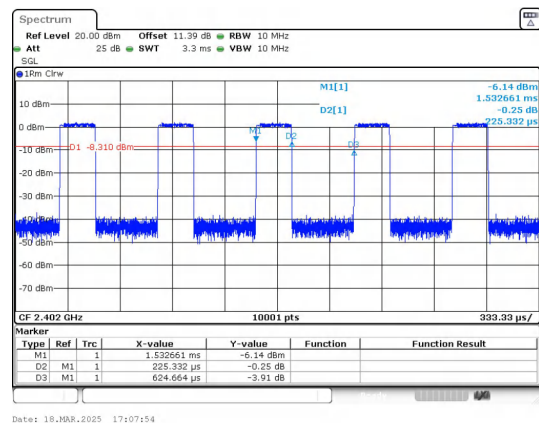
BLE 1M_Channel 0



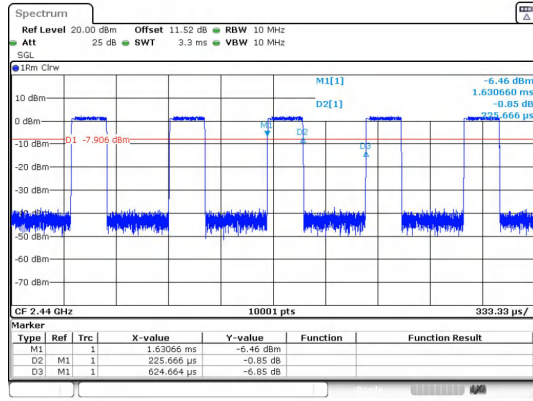
BLE 1M_Channel 19



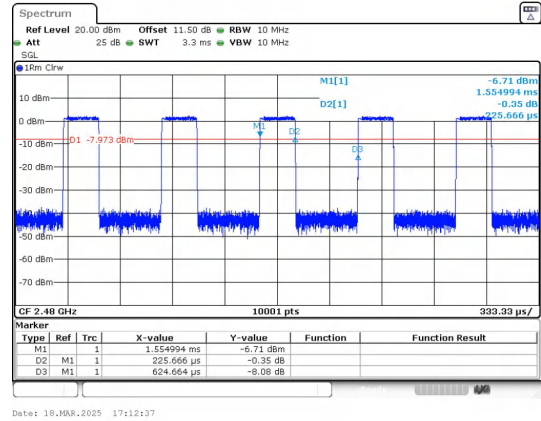
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



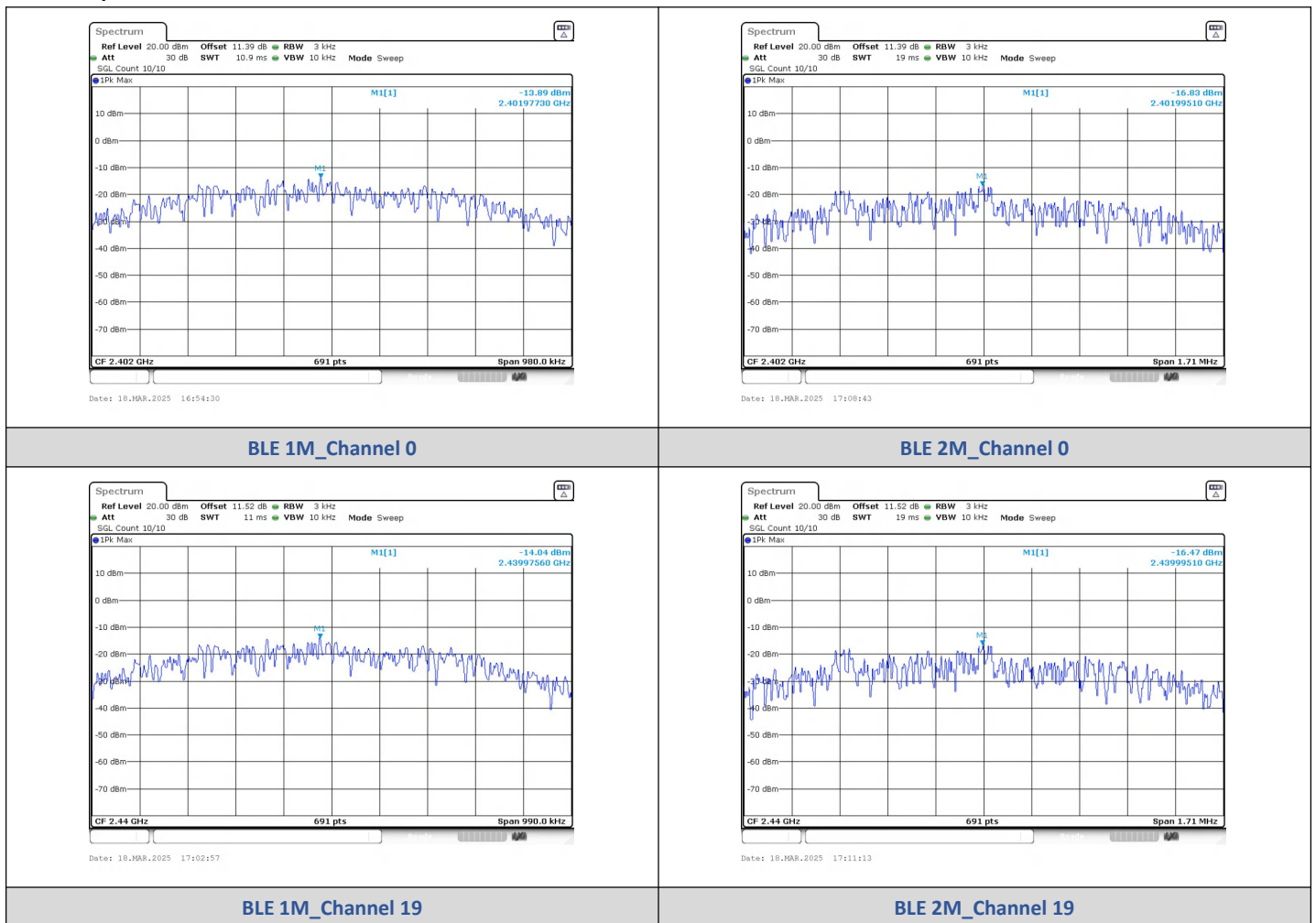
BLE 2M_Channel 39

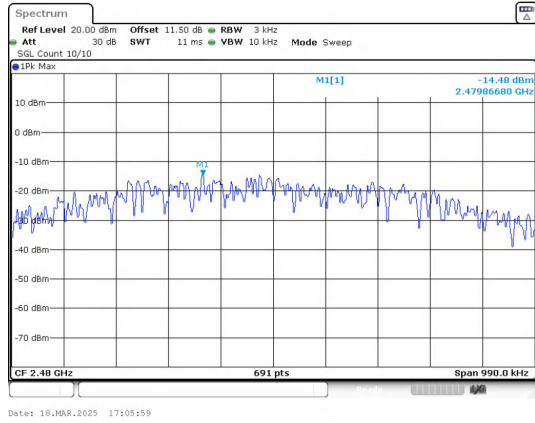
2) Power Spectral Density

Test Result

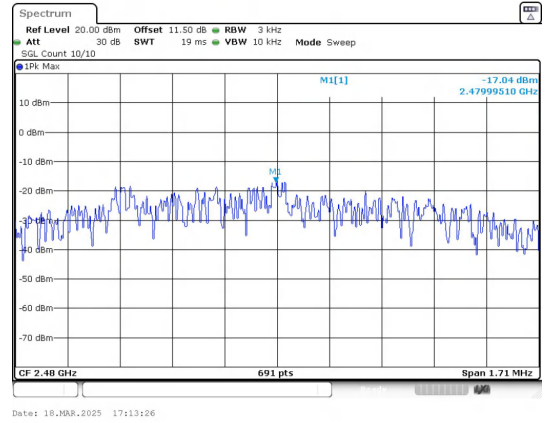
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.890	≤8	PASS
BLE 1M	19	-14.040	≤8	PASS
BLE 1M	39	-14.480	≤8	PASS
BLE 2M	0	-16.830	≤8	PASS
BLE 2M	19	-16.470	≤8	PASS
BLE 2M	39	-17.040	≤8	PASS

Test Graphs





BLE 1M_Channel 39



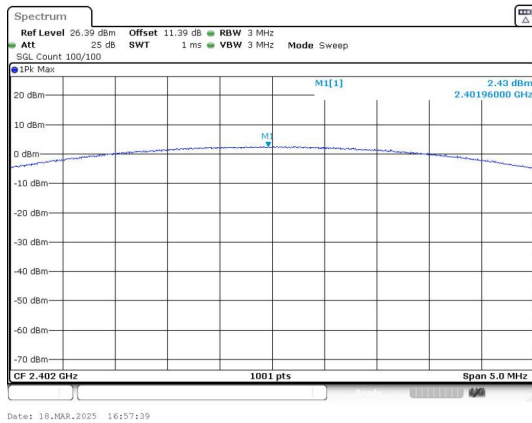
BLE 2M_Channel 39

3) Conducted Output Power

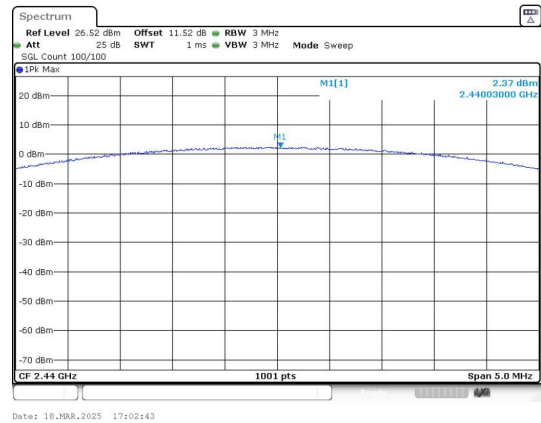
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.43	1.75	≤30	PASS
	19	2.37	1.73	≤30	PASS
	39	2.35	1.72	≤30	PASS
BLE 2M	0	1.85	1.53	≤30	PASS
	19	2.14	1.64	≤30	PASS
	39	2.06	1.61	≤30	PASS

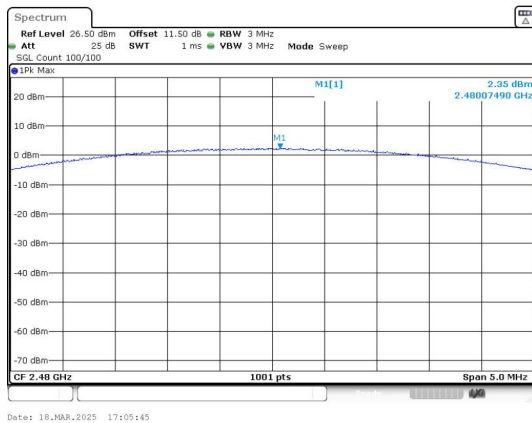
Test Graphs



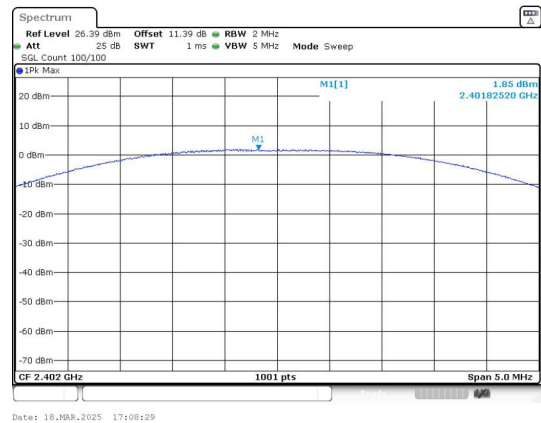
Peak Output Power
BLE 1M_Channel 0



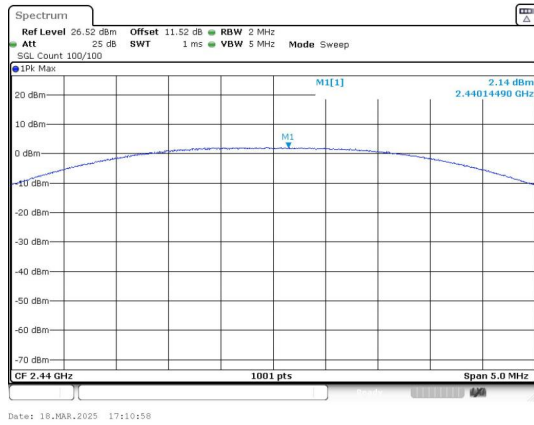
Peak Output Power
BLE 1M_Channel 19



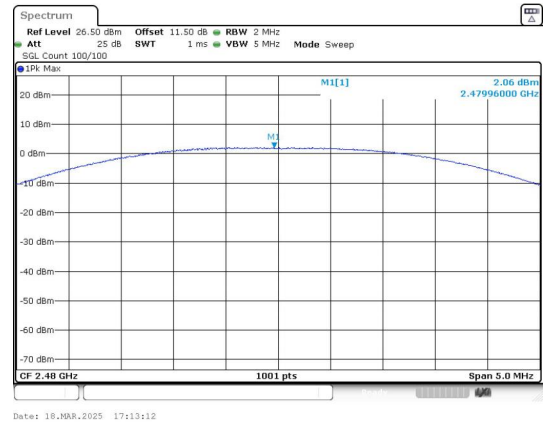
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



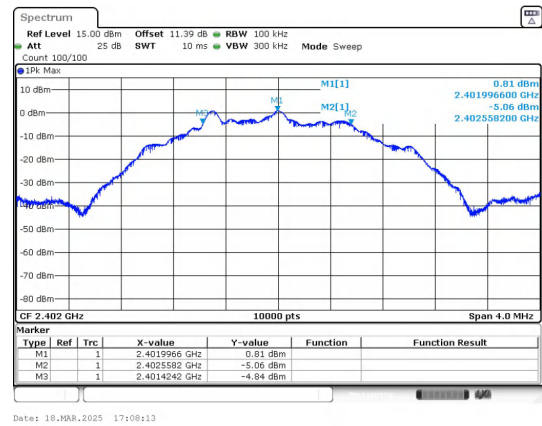
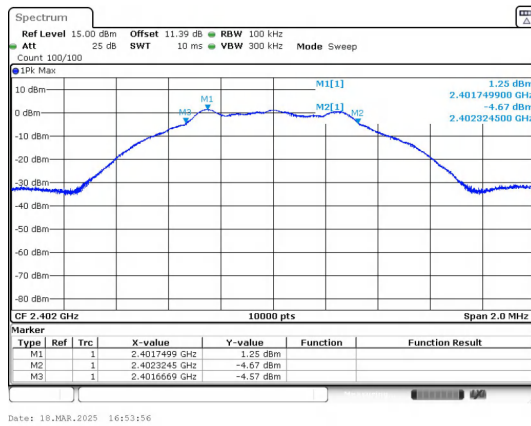
Peak Output Power
BLE 2M_Channel 39

4) 6dB Bandwidth

Test Result

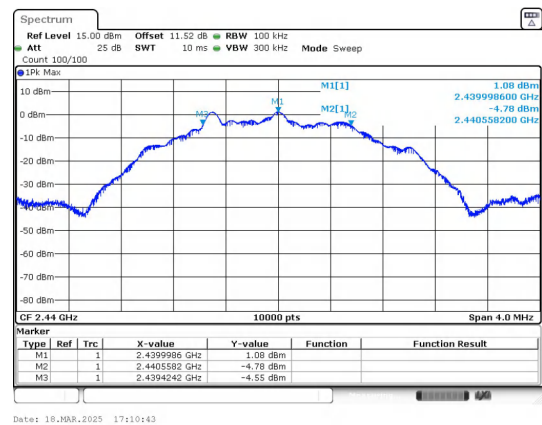
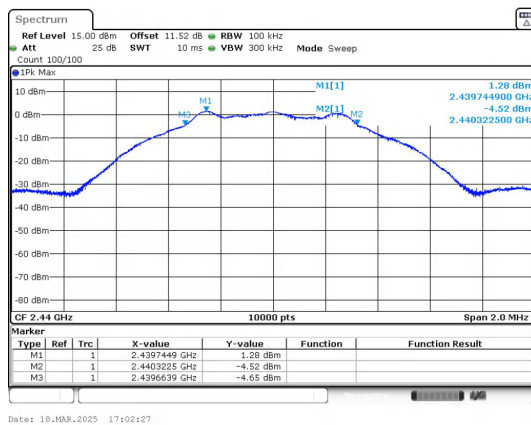
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6500	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.140		PASS
	19	2440	1.140		PASS
	39	2480	1.140		PASS

Test Graphs



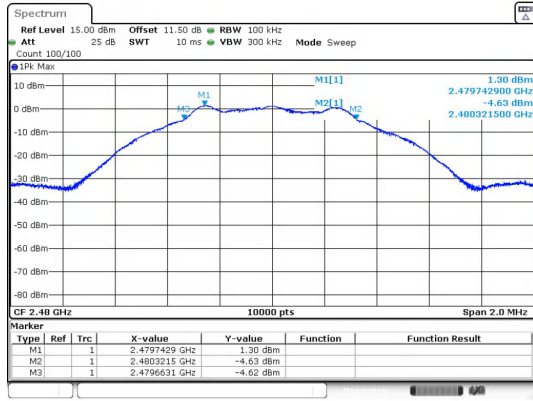
BLE 1M_Channel 0

BLE 2M_Channel 0

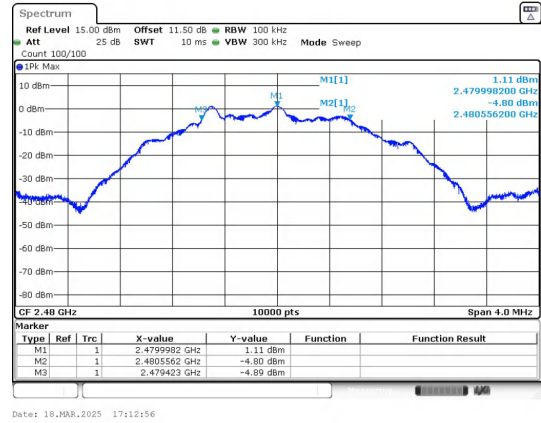


BLE 1M_Channel 19

BLE 2M_Channel 19



BLE 1M_Channel 39



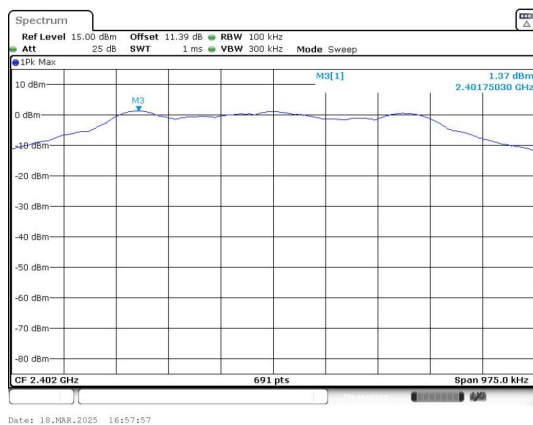
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

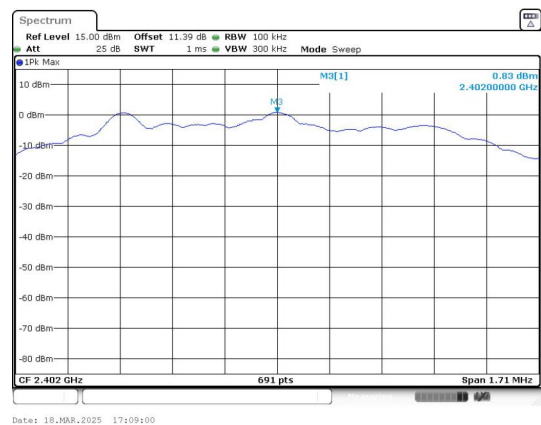
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-45.780	-18.63	-27.150	PASS
		4803.85	-46.191	-18.63	-27.561	PASS
	19	4879.59	-48.227	-18.72	-29.507	PASS
	39	2483.50	-49.650	-18.69	-30.960	PASS
		6765.66	-52.521	-18.69	-33.831	PASS
BLE 2M	0	2400.00	-36.510	-19.17	-17.340	PASS
		4803.02	-48.157	-19.17	-28.987	PASS
	19	4880.42	-47.362	-18.93	-28.432	PASS
	39	2483.50	-50.420	-18.89	-31.530	PASS
		5896.70	-52.637	-18.89	-33.747	PASS

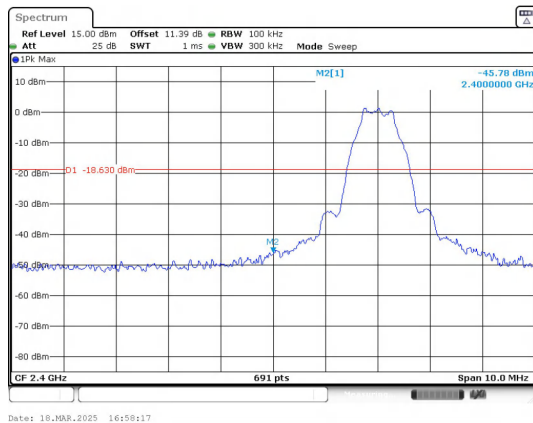
Test Graphs



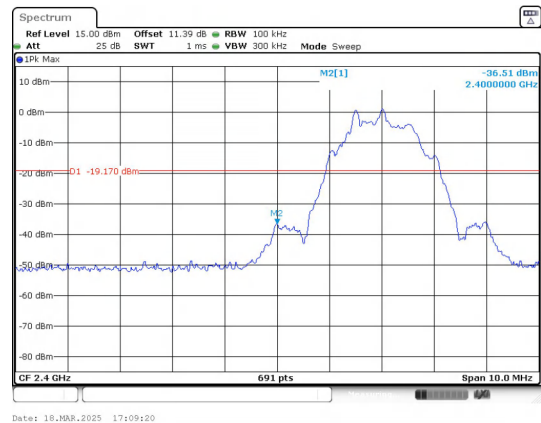
In-Band Reference Level
BLE 1M_Channel 0



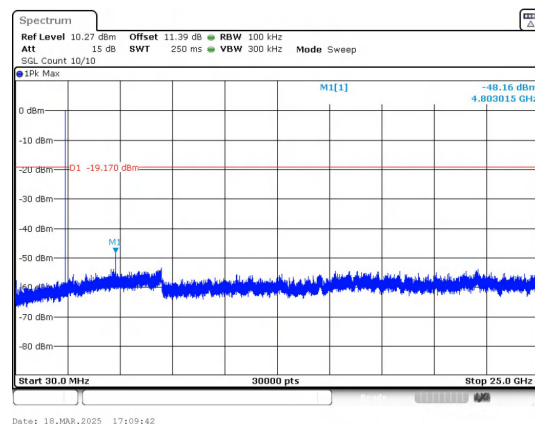
In-Band Reference Level
BLE 2M_Channel 0



Out Of Band Emission
BLE 1M_Channel 0

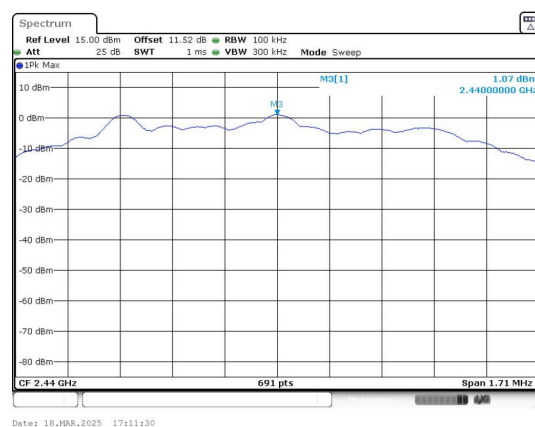


Out Of Band Emission
BLE 2M_Channel 0

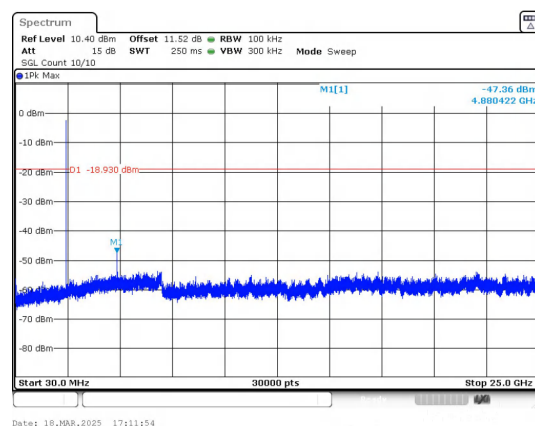


30.0 MHz - 25000.0 MHz

BLE 2M Channel 0

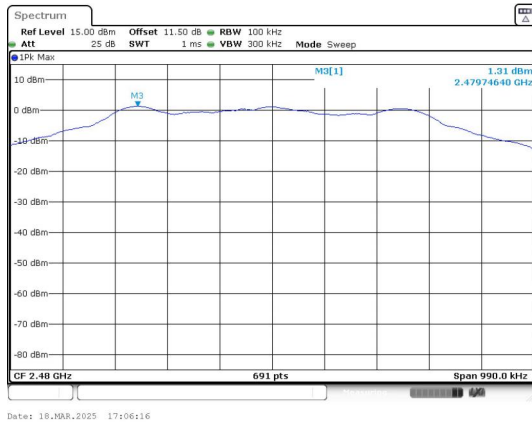


In-Band Reference Level
BLE 2M Channel 19

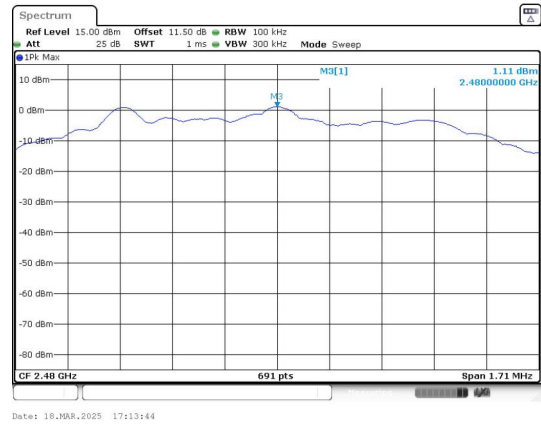


30.0 MHz - 25000.0 MHz

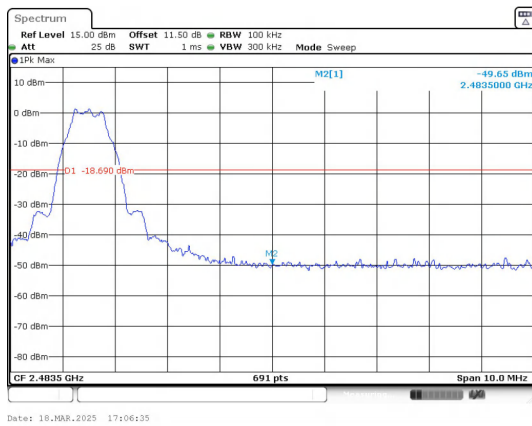
BLE 2M Channel 19



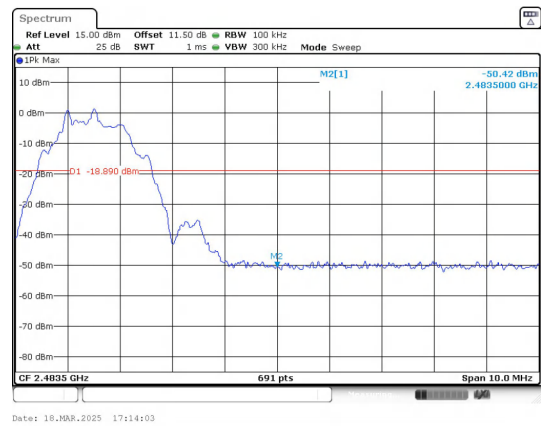
**In-Band Reference Level
BLE 1M_Channel 39**



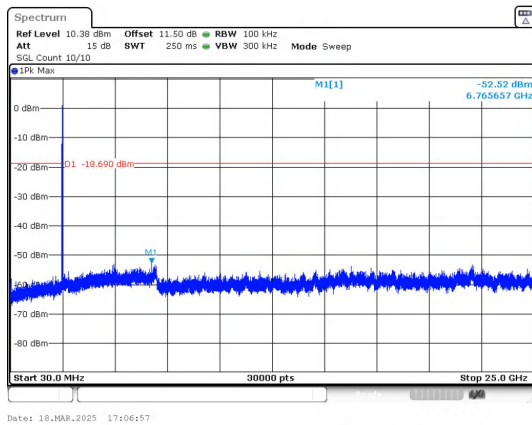
**In-Band Reference Level
BLE 2M_Channel 39**



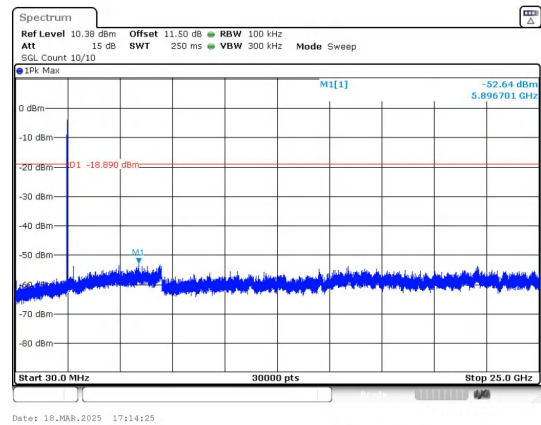
**Out Of Band Emission
BLE 1M_Channel 39**



**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-----