

Appendix Report

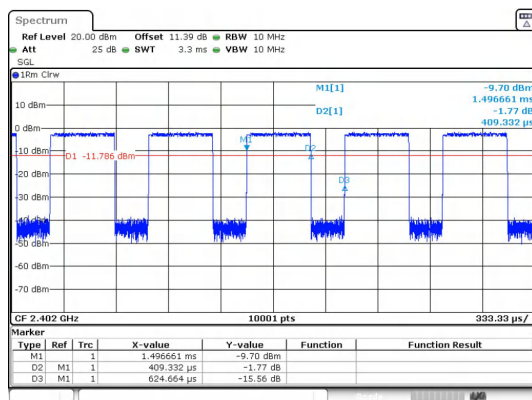
Report No.:	CISRR250221105
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

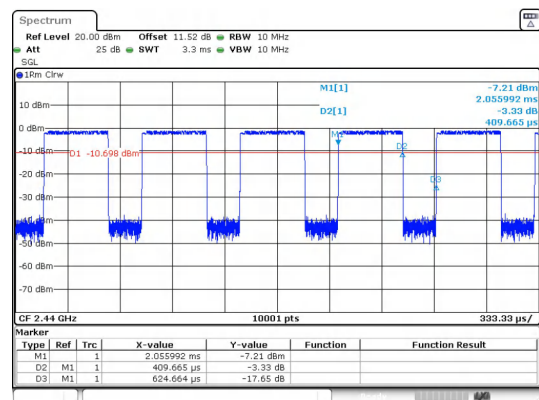
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	0.409	0.625	65.53	0.6553	1.8356	2.4450
	19	0.410	0.625	65.58	0.6558	1.8323	2.4390
	39	0.409	0.625	65.53	0.6553	1.8356	2.4450
BLE 2M	0	0.226	0.625	36.11	0.3611	4.4237	4.4248
	19	0.226	0.625	36.13	0.3613	4.4213	4.4248
	39	0.226	0.625	36.13	0.3613	4.4213	4.4248

Test Graphs



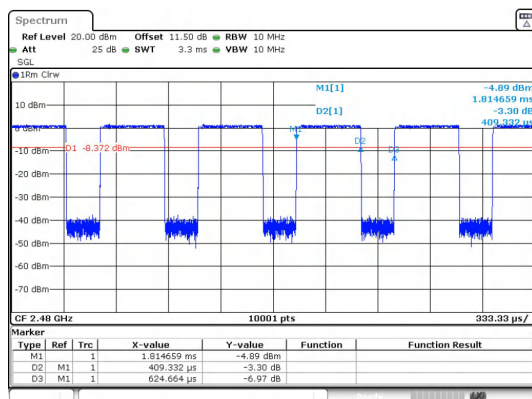
Date: 18.MAR.2025 17:30:15

BLE 1M_Channel 0



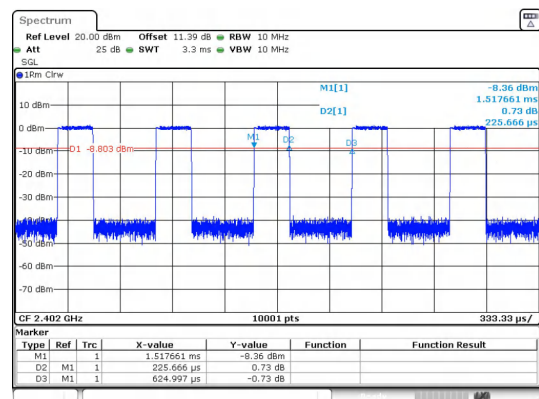
Date: 18.MAR.2025 17:49:37

BLE 1M_Channel 19



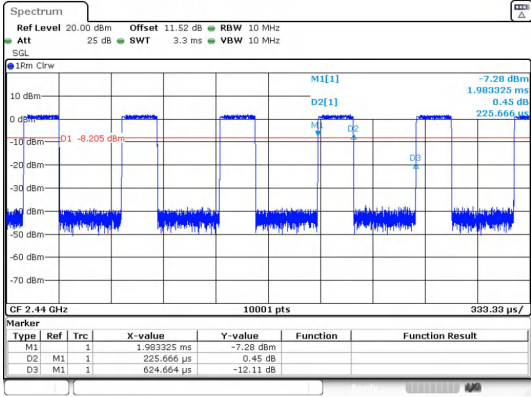
Date: 18.MAR.2025 17:52:50

BLE 1M_Channel 39

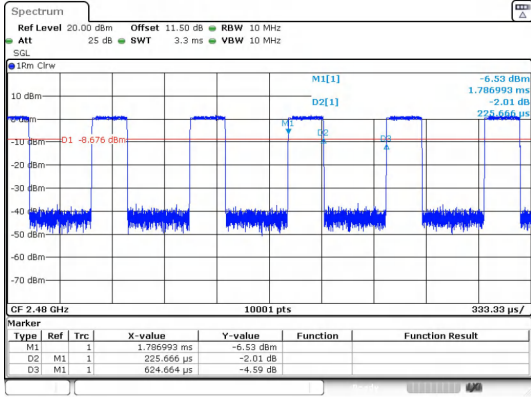


Date: 18.MAR.2025 17:55:58

BLE 2M_Channel 0



BLE 2M_Channel 19



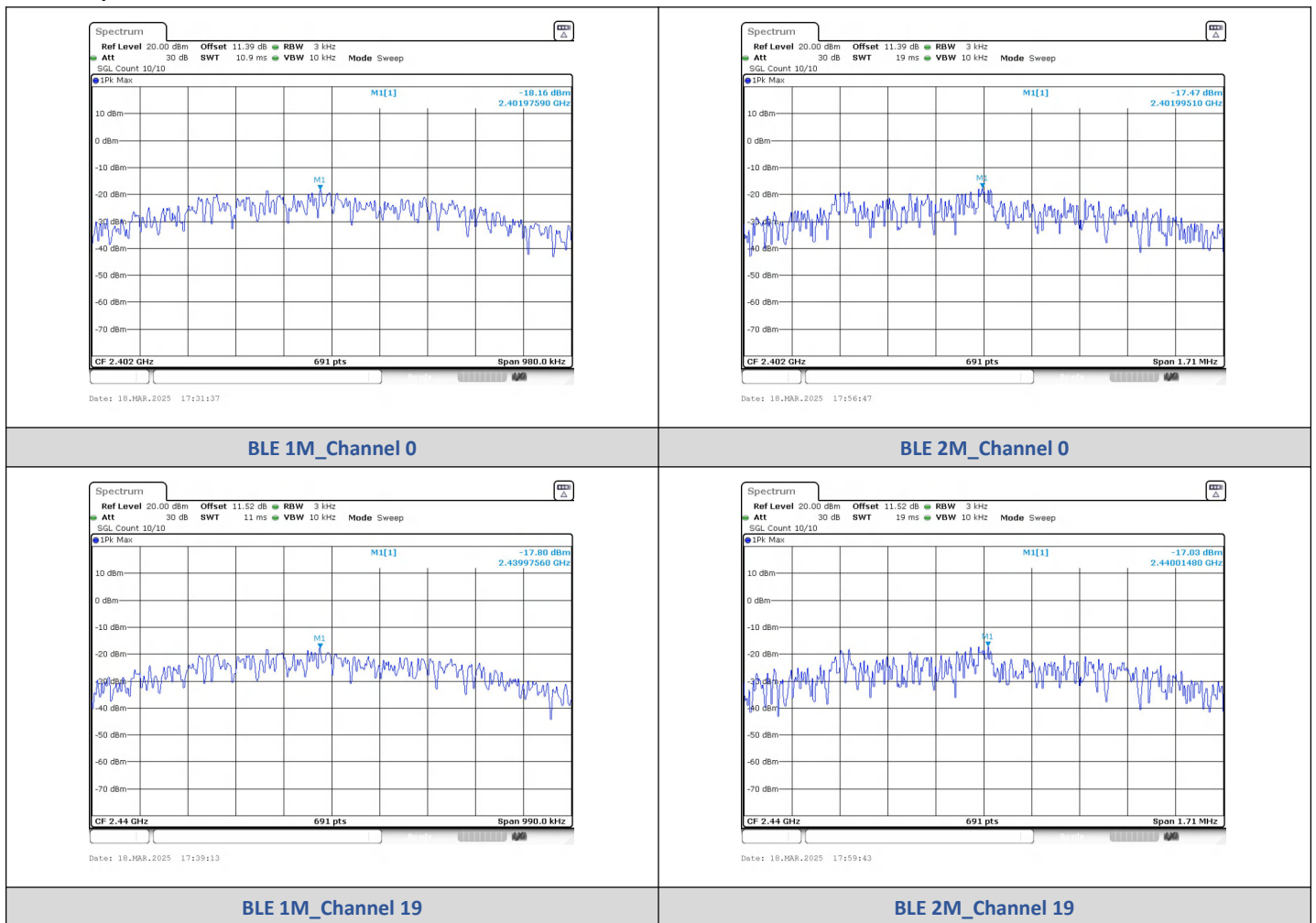
BLE 2M_Channel 39

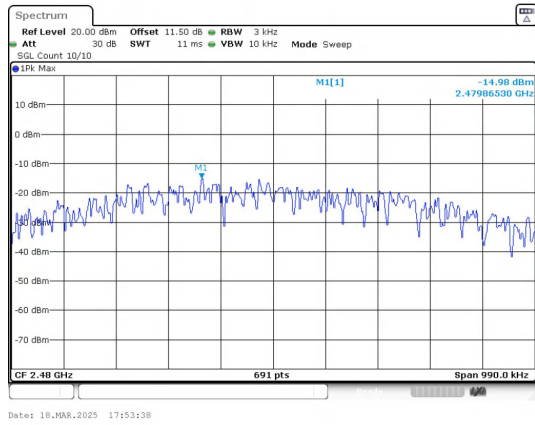
2) Power Spectral Density

Test Result

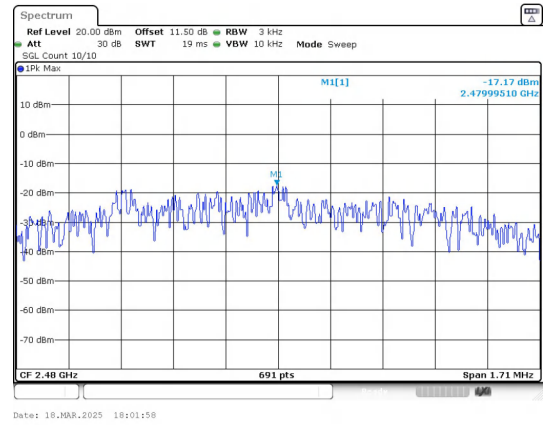
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-18.160	≤8	PASS
BLE 1M	19	-17.800	≤8	PASS
BLE 1M	39	-14.980	≤8	PASS
BLE 2M	0	-17.470	≤8	PASS
BLE 2M	19	-17.030	≤8	PASS
BLE 2M	39	-17.170	≤8	PASS

Test Graphs





BLE 1M_Channel 39



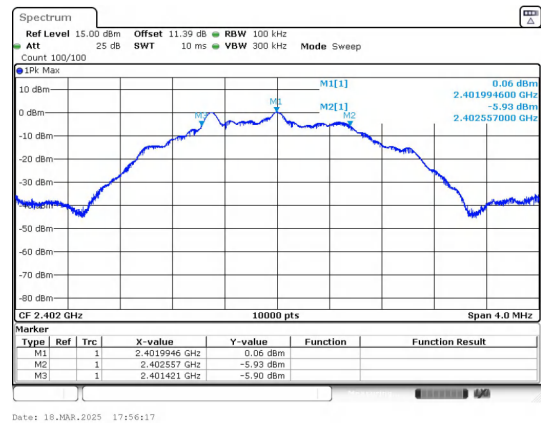
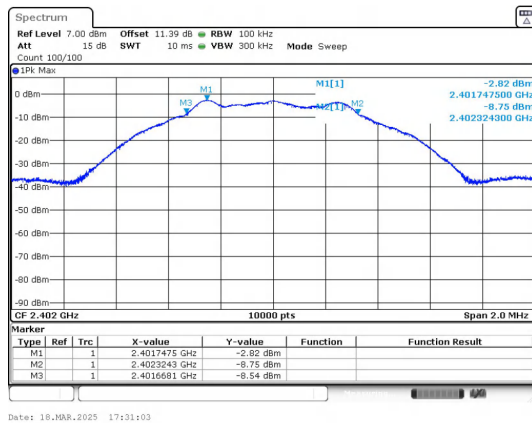
BLE 2M_Channel 39

3) 6dB Bandwidth

Test Result

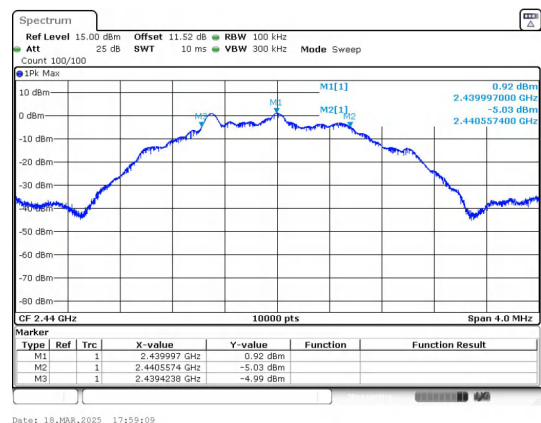
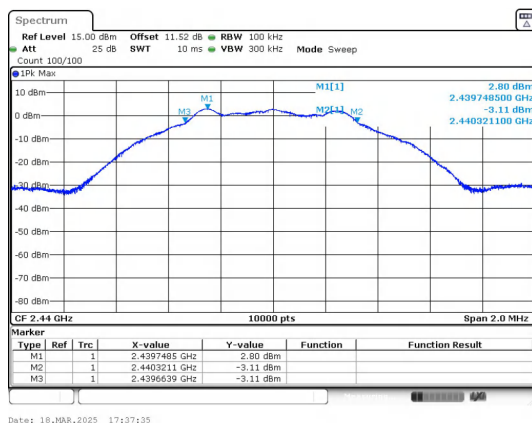
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6500	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.140		PASS
	19	2440	1.140		PASS
	39	2480	1.140		PASS

Test Graphs



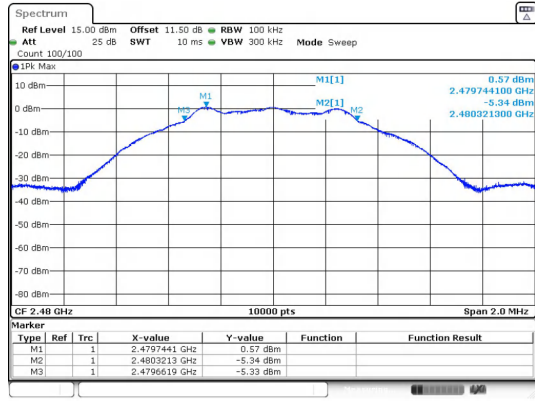
BLE 1M_Channel 0

BLE 2M_Channel 0

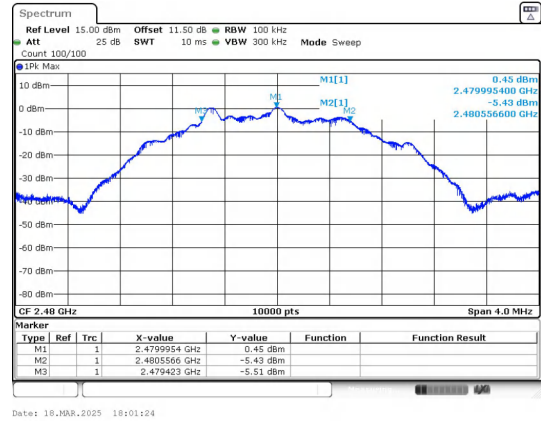


BLE 1M_Channel 19

BLE 2M_Channel 19



BLE 1M_Channel 39



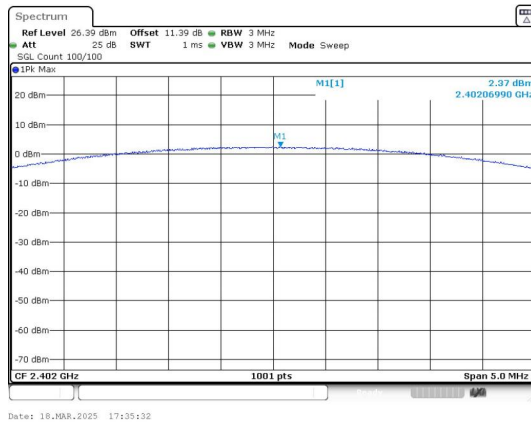
BLE 2M_Channel 39

4) Conducted Output Power

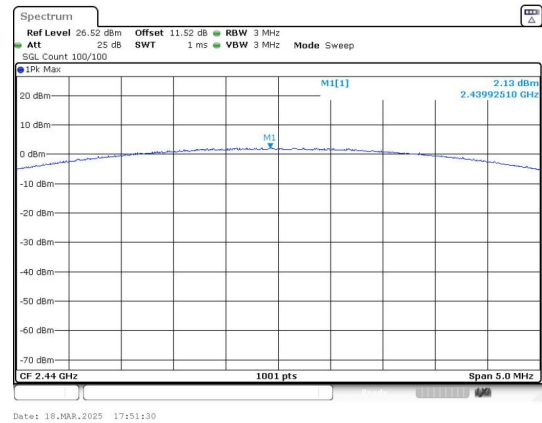
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.37	1.73	≤30	PASS
	19	2.13	1.63	≤30	PASS
	39	1.70	1.48	≤30	PASS
BLE 2M	0	1.04	1.27	≤30	PASS
	19	1.91	1.55	≤30	PASS
	39	1.45	1.4	≤30	PASS

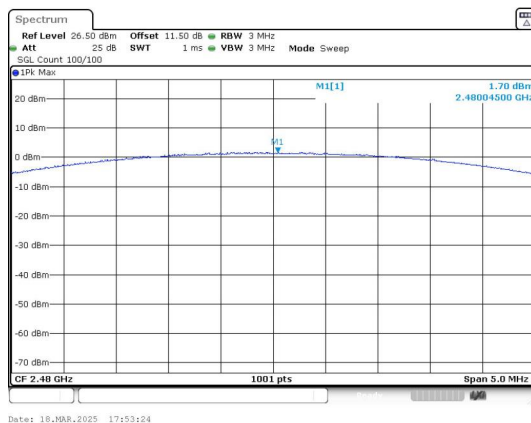
Test Graphs



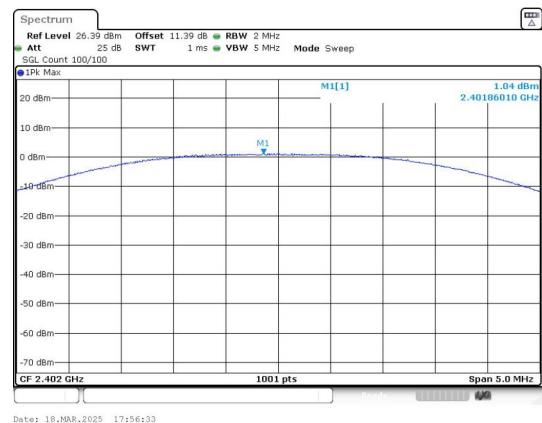
Peak Output Power
BLE 1M_Channel 0



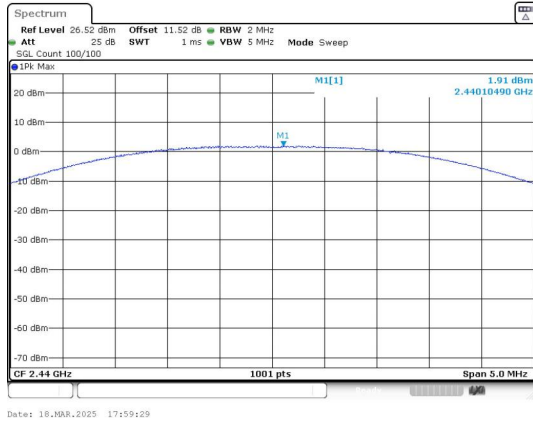
Peak Output Power
BLE 1M_Channel 19



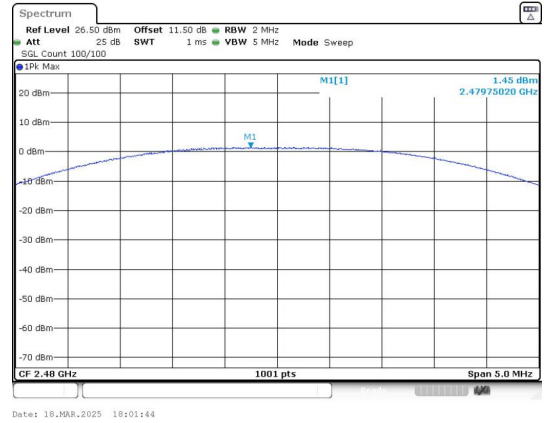
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



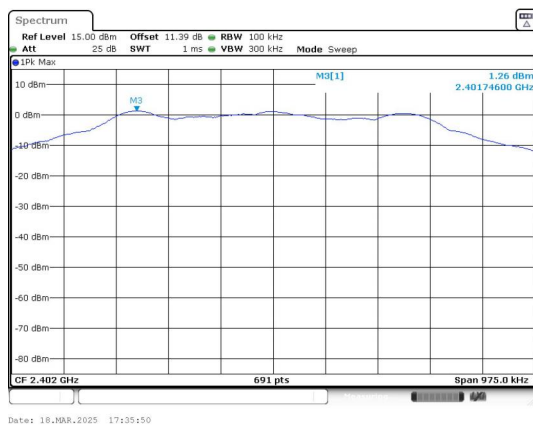
Peak Output Power
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

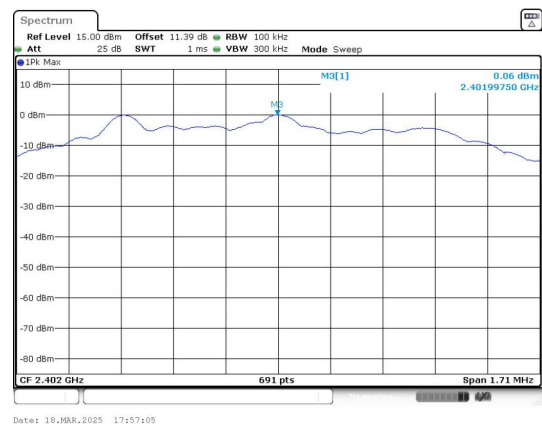
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-46.180	-18.74	-27.440	PASS
		4803.85	-47.228	-18.74	-28.488	PASS
	19	4880.42	-53.475	-22.47	-31.005	PASS
	39	2483.50	-50.070	-19.4	-30.670	PASS
		4960.33	-49.656	-19.4	-30.256	PASS
BLE 2M	0	2400.00	-37.160	-19.94	-17.220	PASS
		4803.02	-49.755	-19.94	-29.815	PASS
	19	22022.3	-52.849	-19.09	-33.759	PASS
	39	2483.50	-50.140	-19.5	-30.640	PASS
		4958.66	-52.385	-19.5	-32.885	PASS

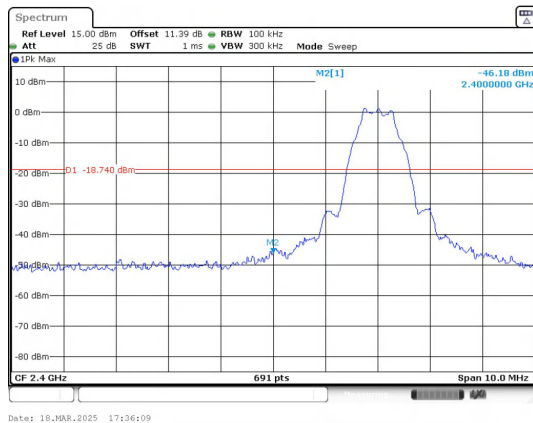
Test Graphs



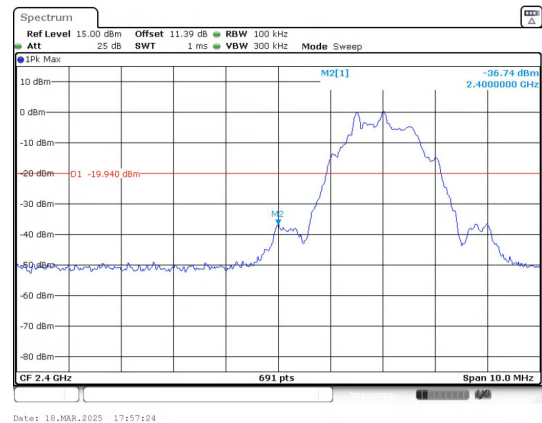
In-Band Reference Level
BLE 1M_Channel 0



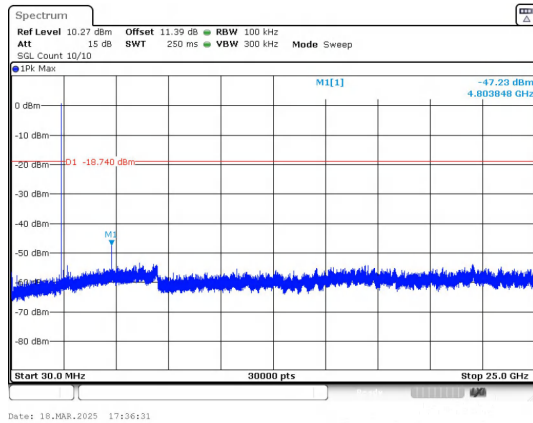
In-Band Reference Level
BLE 2M_Channel 0



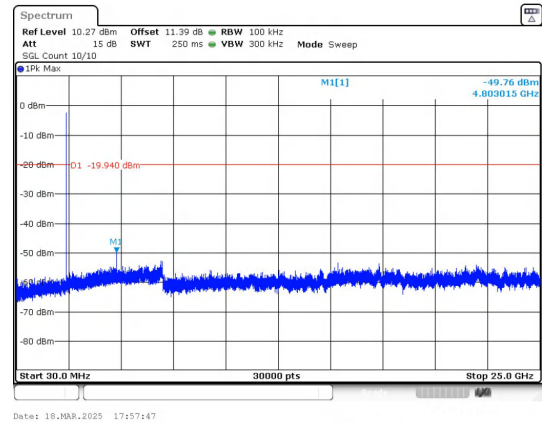
Out Of Band Emission
BLE 1M_Channel 0



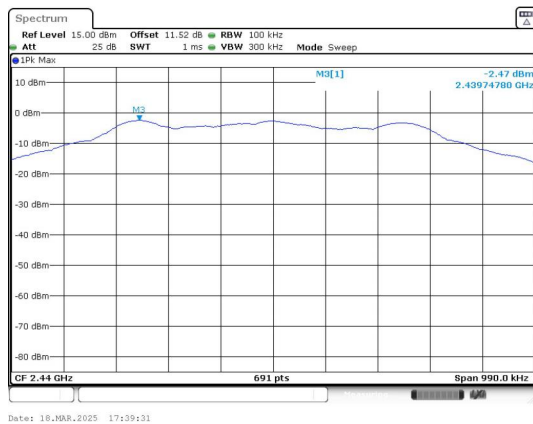
Out Of Band Emission
BLE 2M_Channel 0



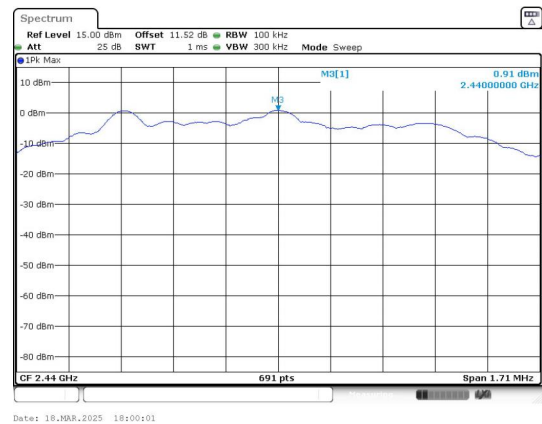
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



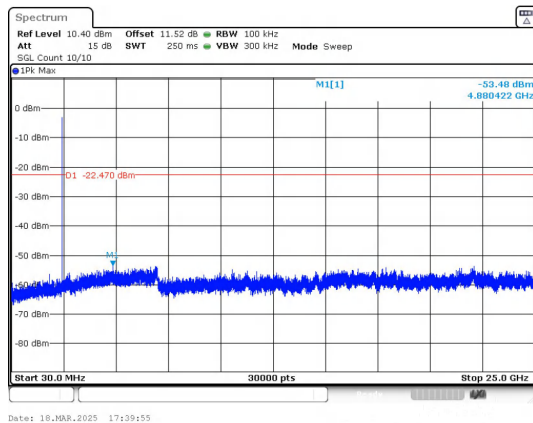
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



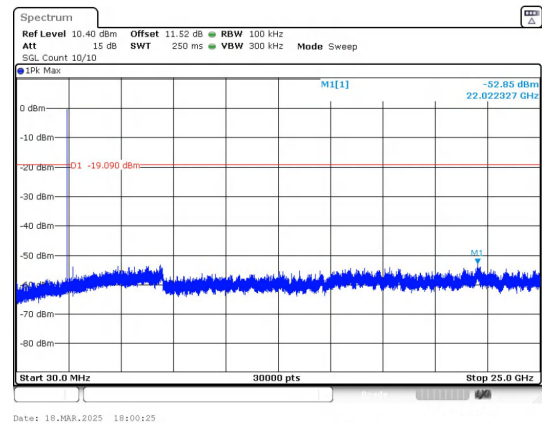
In-Band Reference Level
BLE 1M_Channel 19



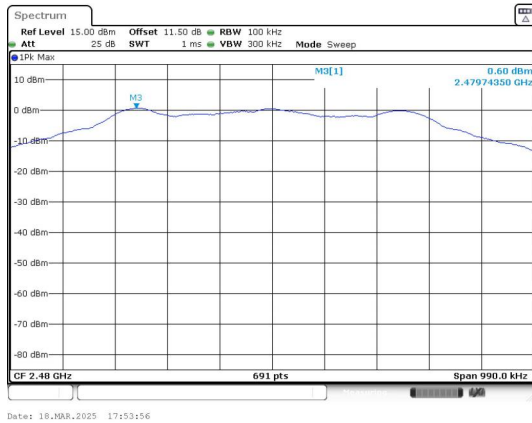
In-Band Reference Level
BLE 2M_Channel 19



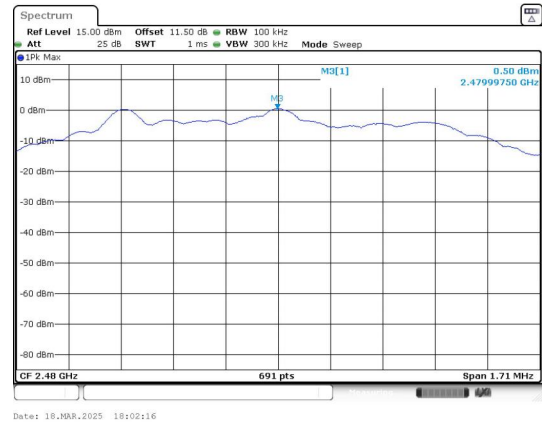
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



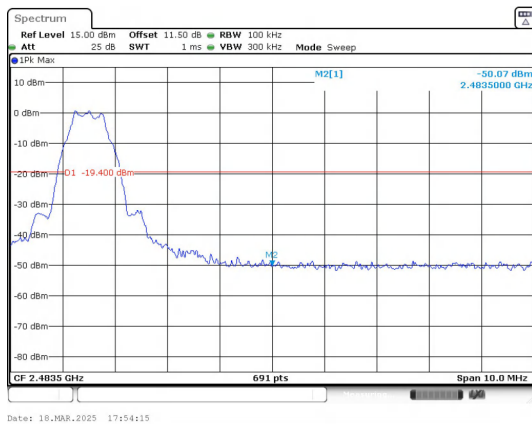
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



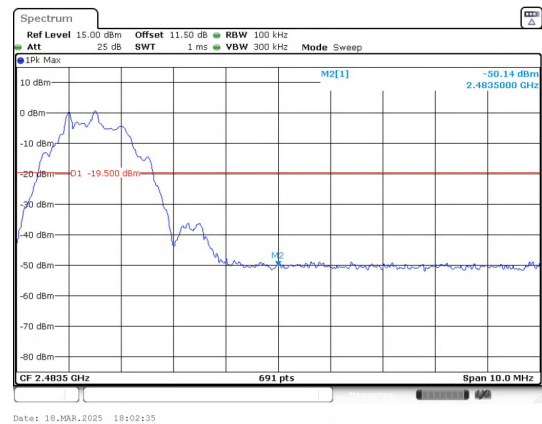
**In-Band Reference Level
BLE 1M_Channel 39**



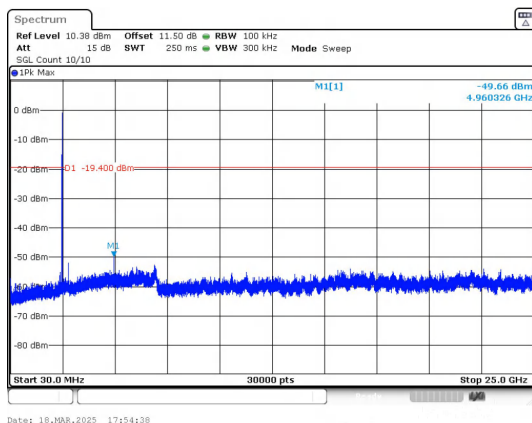
**In-Band Reference Level
BLE 2M_Channel 39**



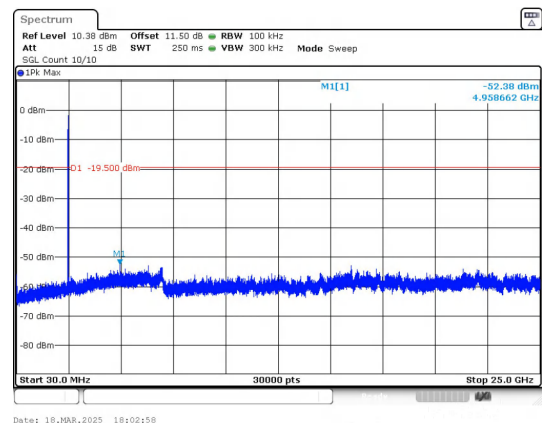
**Out Of Band Emission
BLE 1M_Channel 39**



**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-----