

# Appendix Report

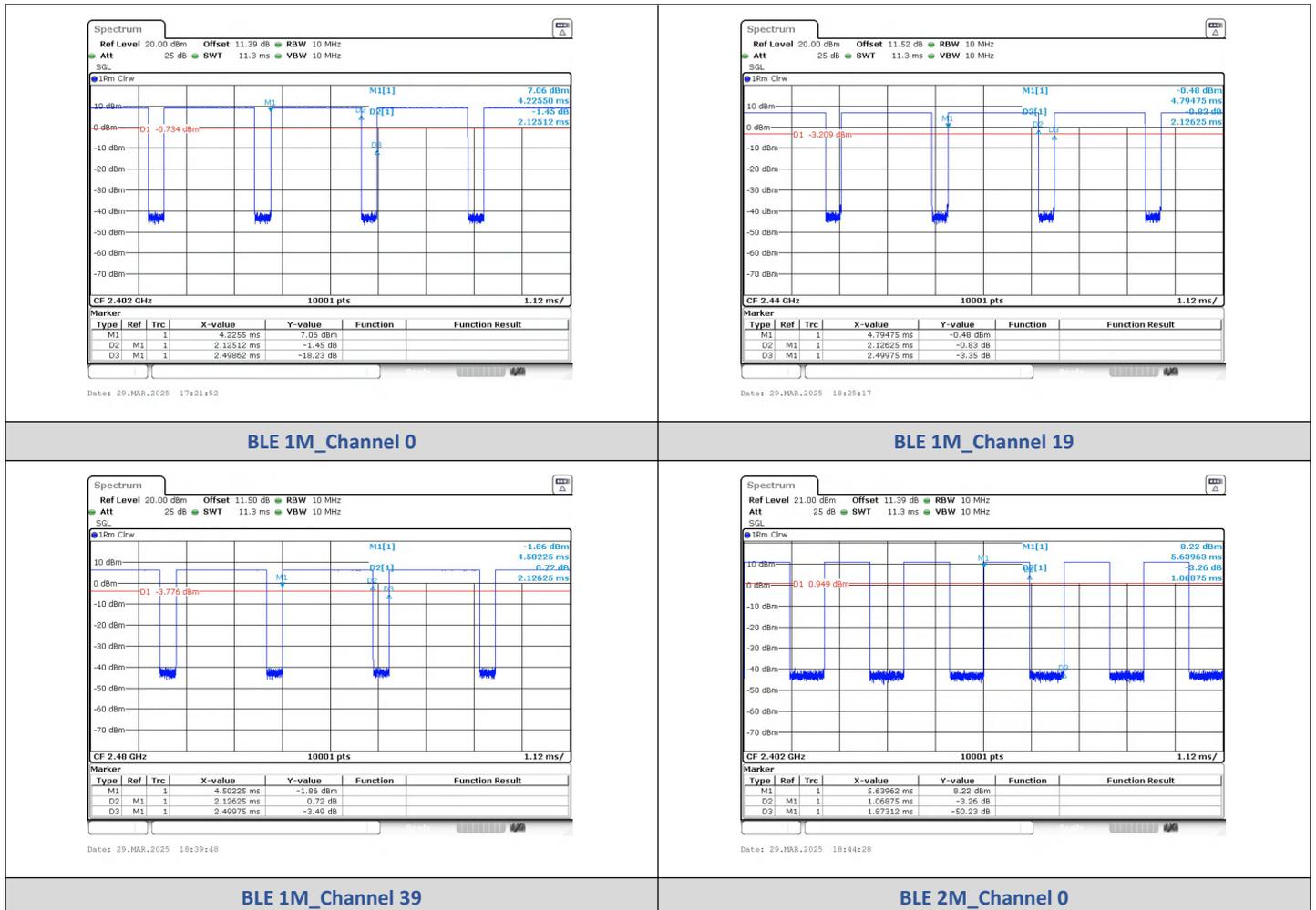
Project No.:	CISR250320171
Test Engineer:	James Wang
Supervised by:	Rory Huang

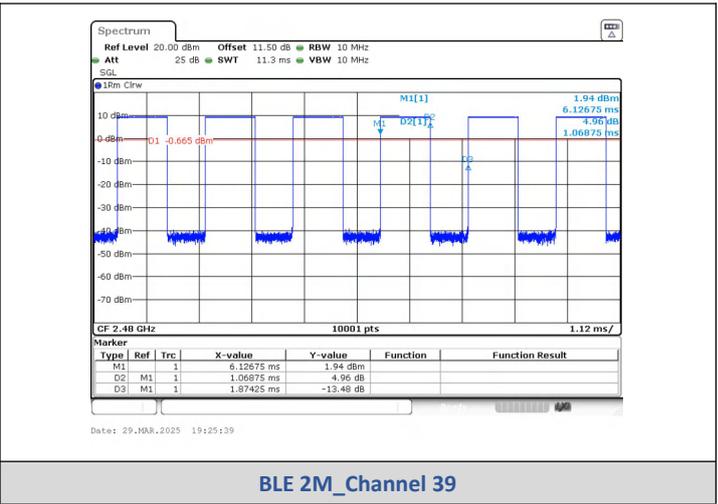
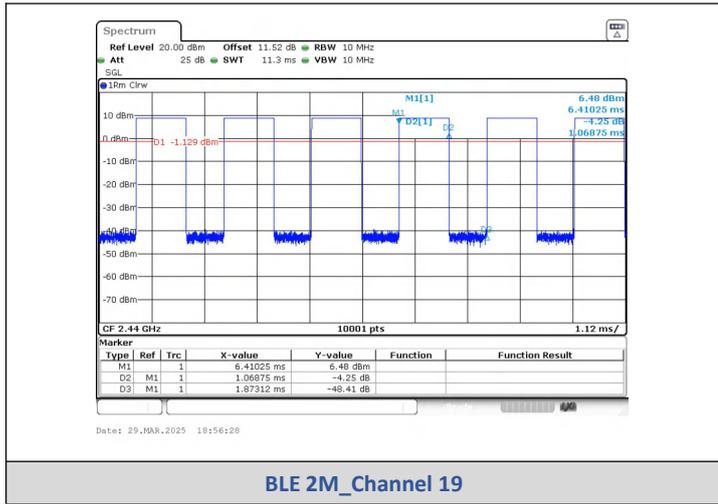
# 1) Duty Cycle

## Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.125	2.499	85.05	0.8505	0.7033	0.4706
	19	2.126	2.500	85.06	0.8506	0.7027	0.4704
	39	2.126	2.500	85.06	0.8506	0.7027	0.4704
BLE 2M	0	1.069	1.873	57.06	0.5706	2.4367	0.9355
	19	1.069	1.873	57.06	0.5706	2.4367	0.9355
	39	1.069	1.874	57.02	0.5702	2.4397	0.9355

## Test Graphs



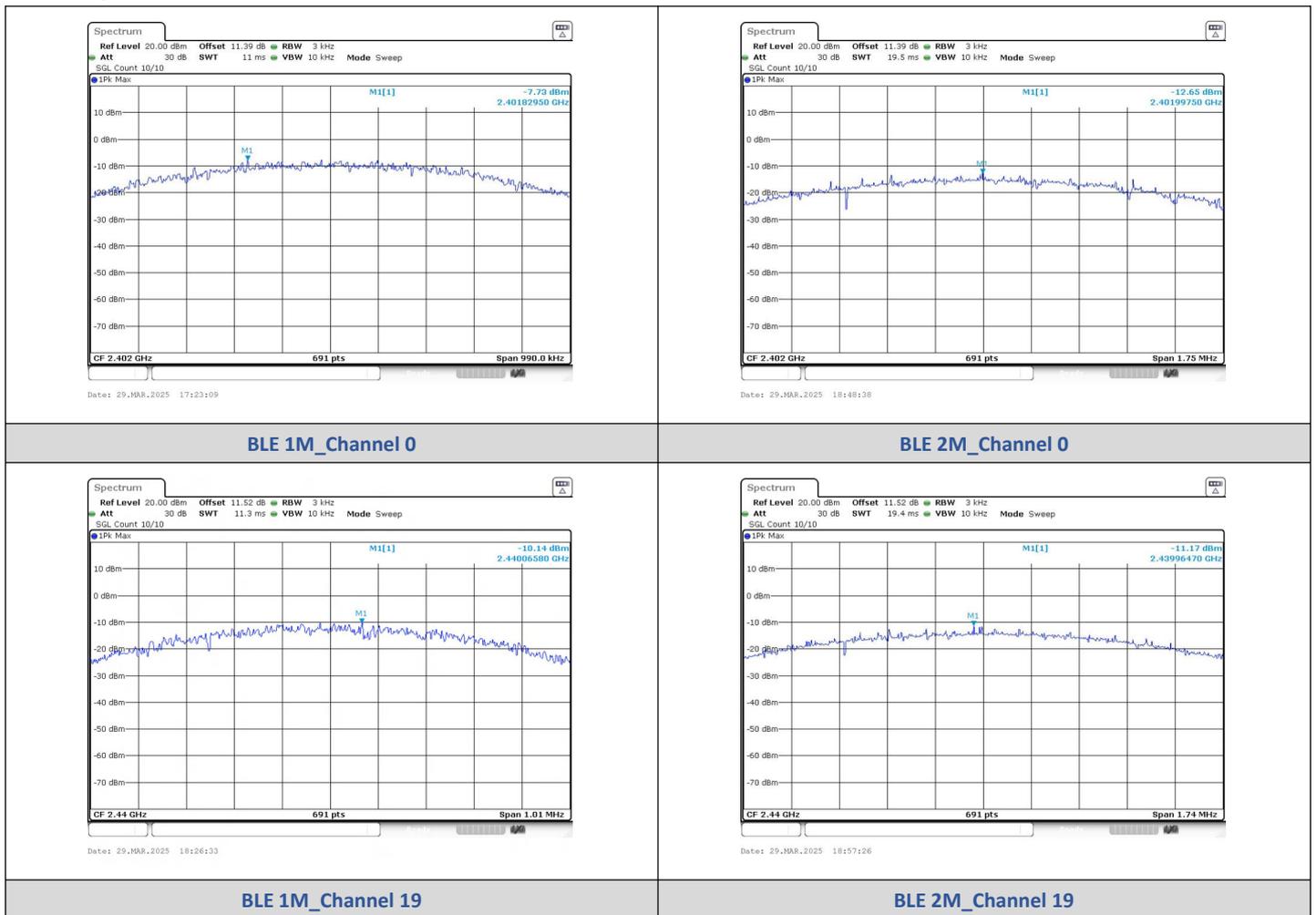


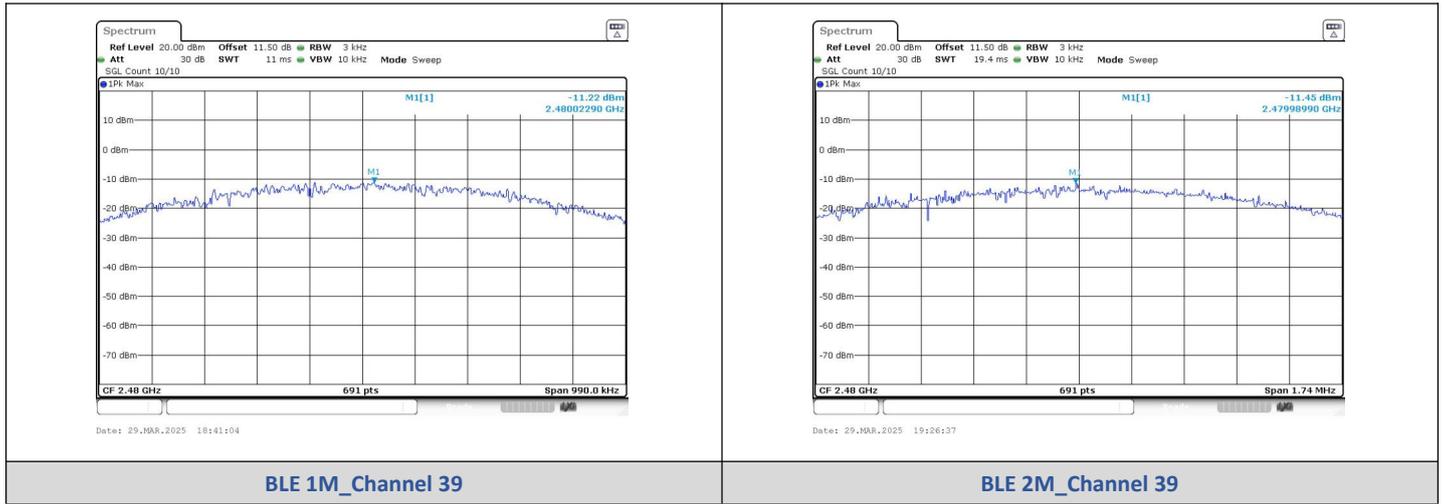
## 2) Power Spectral Density

### Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-7.730	≤8	PASS
BLE 1M	19	-10.140	≤8	PASS
BLE 1M	39	-11.220	≤8	PASS
BLE 2M	0	-12.650	≤8	PASS
BLE 2M	19	-11.170	≤8	PASS
BLE 2M	39	-11.450	≤8	PASS

### Test Graphs



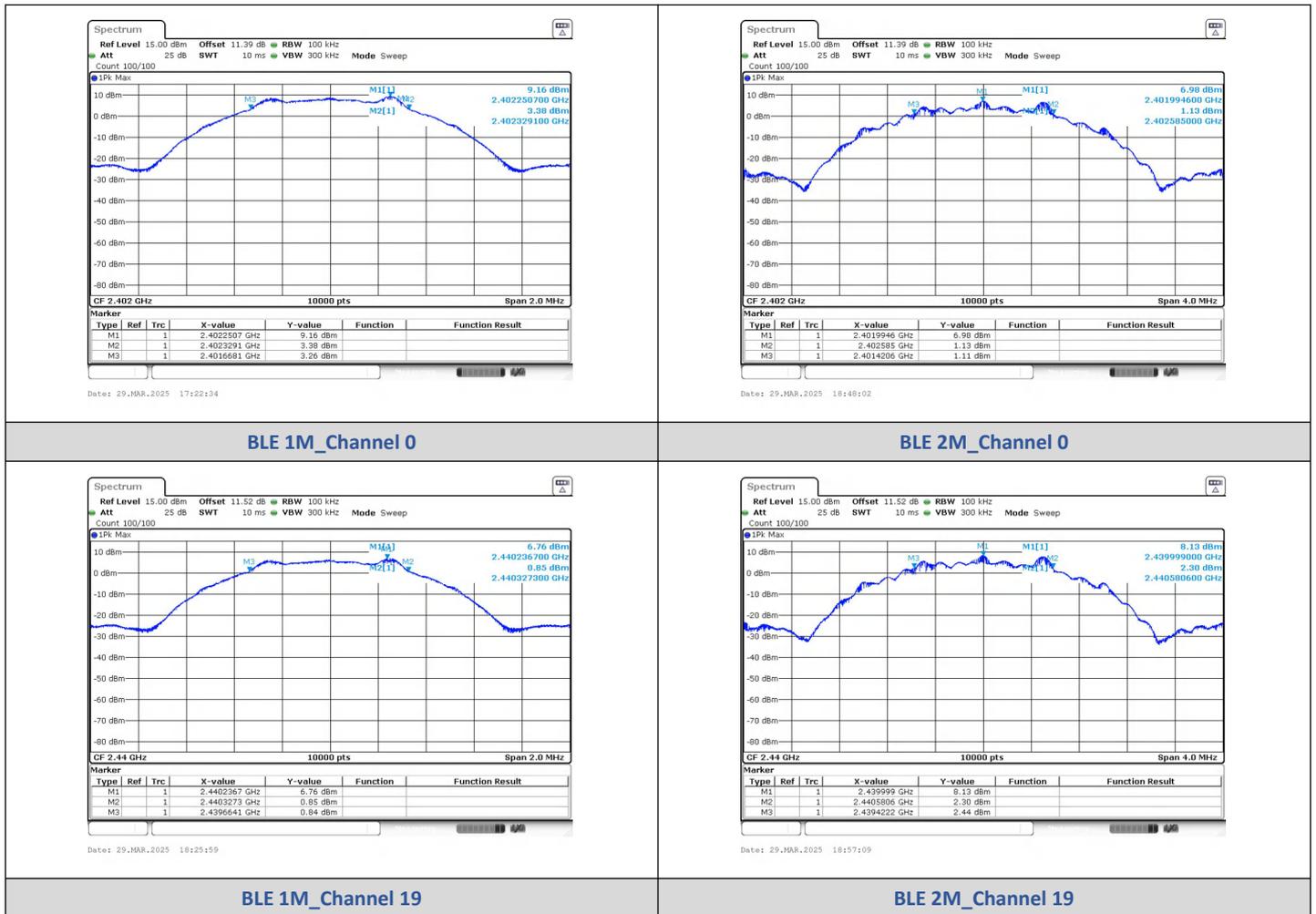


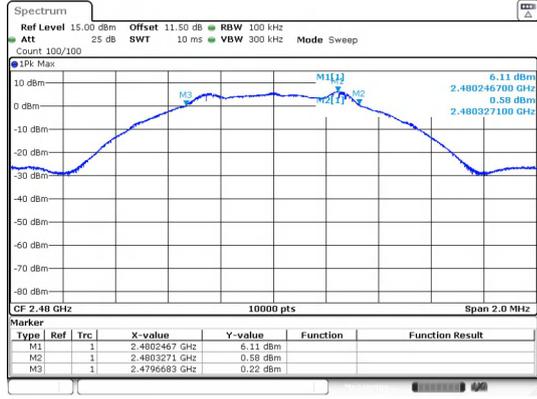
### 3) 6dB Bandwidth

#### Test Result

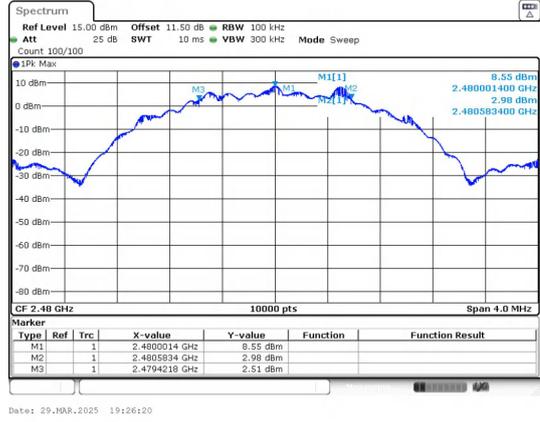
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.170		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

#### Test Graphs





BLE 1M\_Channel 39



BLE 2M\_Channel 39

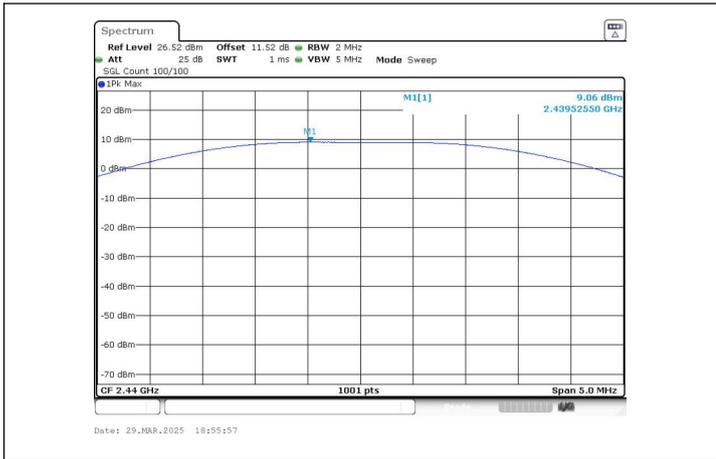
# 4) Conducted Output Power

## Test Result

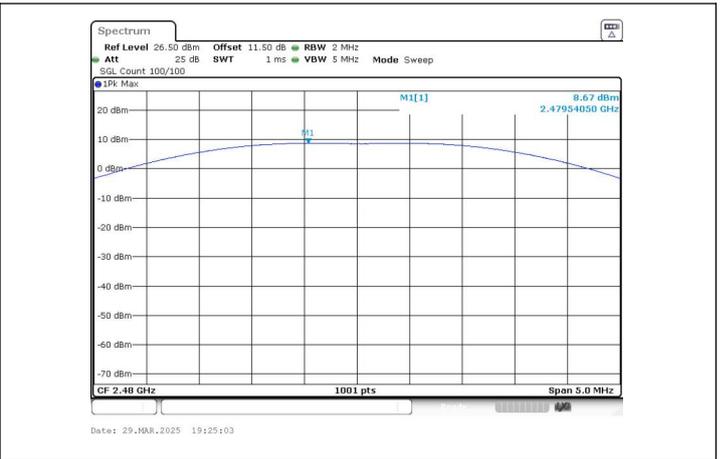
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	9.29	8.49	≤30	PASS
	19	6.85	4.84	≤30	PASS
	39	6.26	4.23	≤30	PASS
BLE 2M	0	7.75	5.96	≤30	PASS
	19	9.06	8.05	≤30	PASS
	39	8.67	7.36	≤30	PASS

## Test Graphs





**Peak Output Power**  
**BLE 2M\_Channel 19**



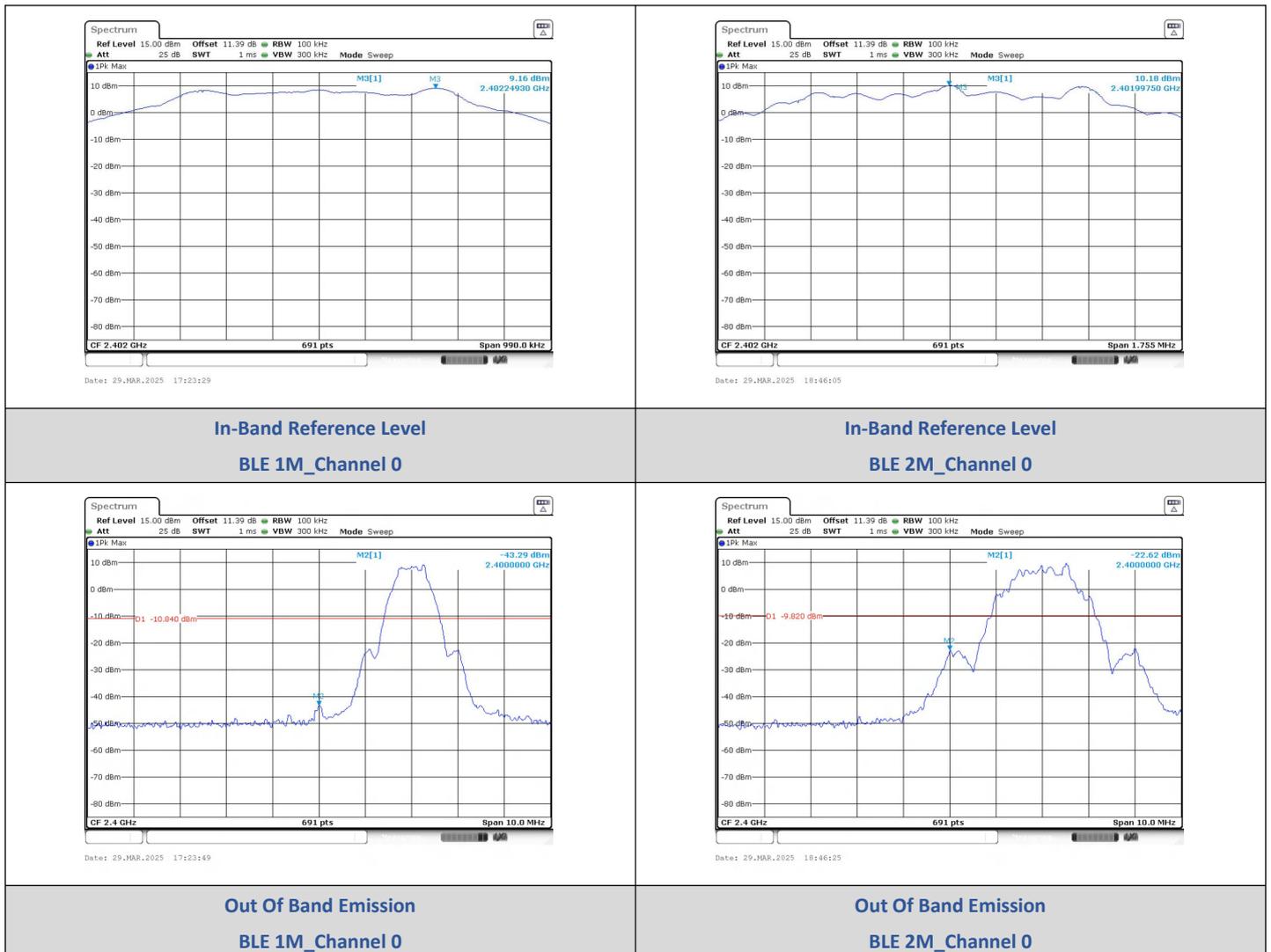
**Peak Output Power**  
**BLE 2M\_Channel 39**

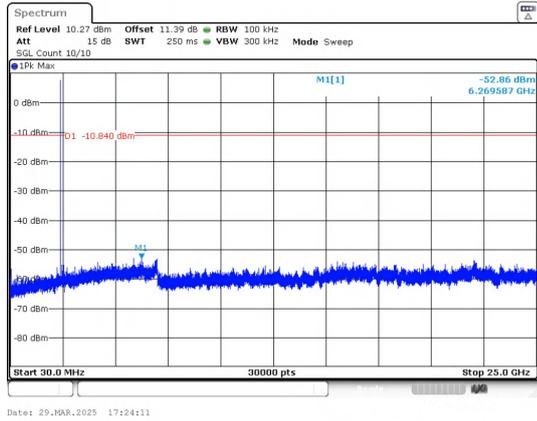
## 5) Conducted Out Of Band Emission

### Test Result

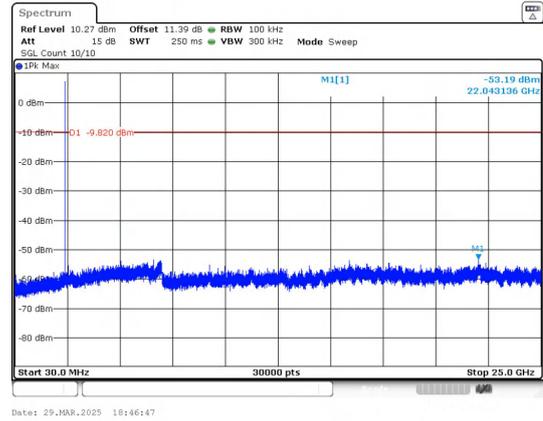
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-43.290	-10.84	-32.450	PASS
		6269.59	-52.861	-10.84	-42.021	PASS
	19	250.15	-48.131	-13.34	-34.791	PASS
		2483.50	-50.330	-13.87	-36.460	PASS
BLE 2M	0	2400.00	-22.620	-9.82	-12.800	PASS
		22043.1	-53.191	-9.82	-43.371	PASS
	19	549.79	-48.963	-11.91	-37.053	PASS
		2483.50	-48.360	-11.51	-36.850	PASS
	39	16313.4	-53.124	-11.51	-41.614	PASS

### Test Graphs

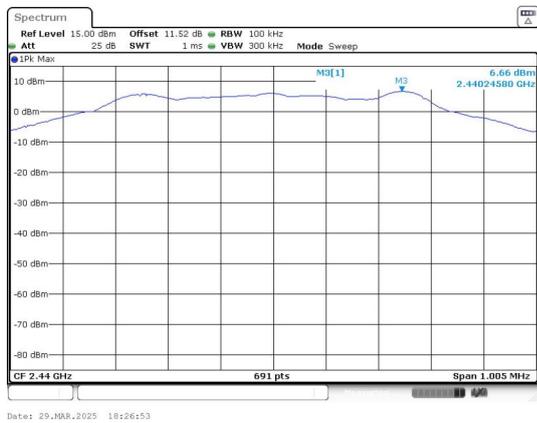




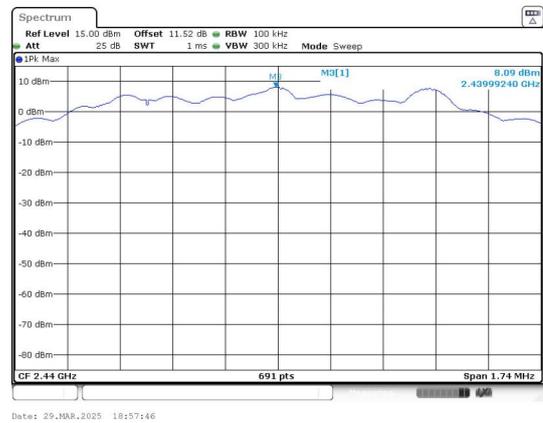
30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 0



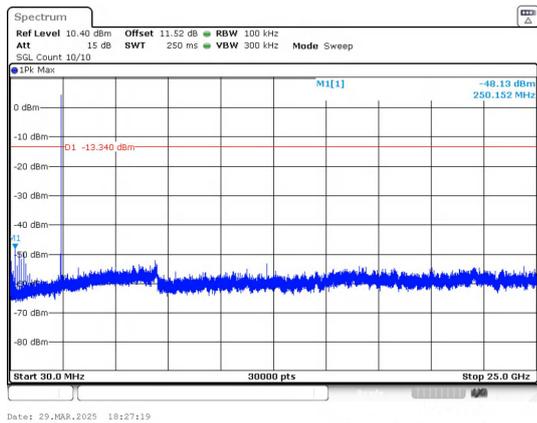
30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 0



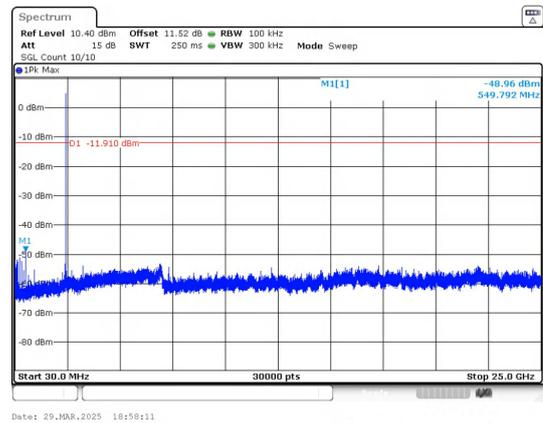
In-Band Reference Level  
BLE 1M\_Channel 19



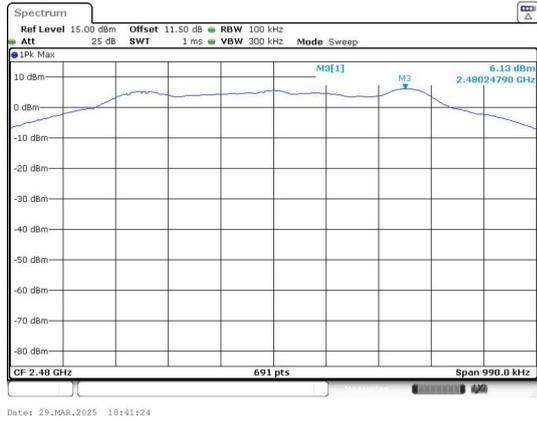
In-Band Reference Level  
BLE 2M\_Channel 19



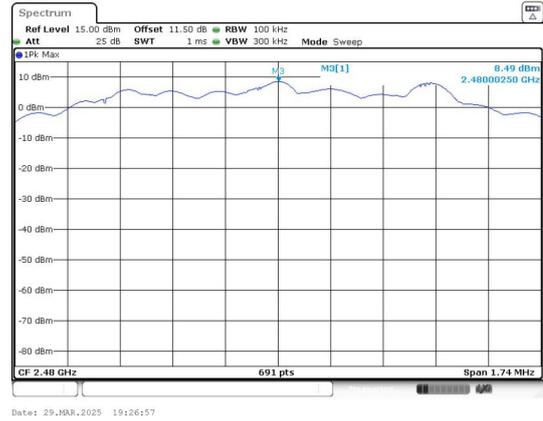
30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 19



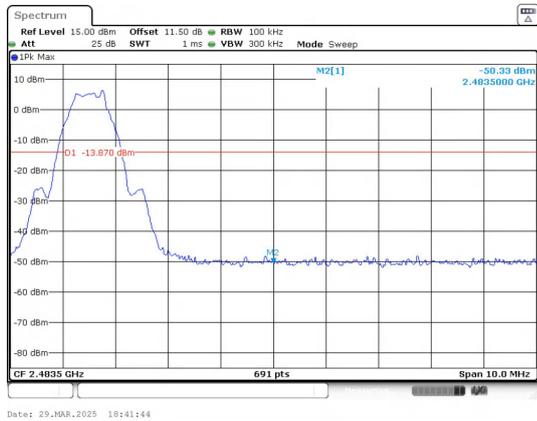
30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 19



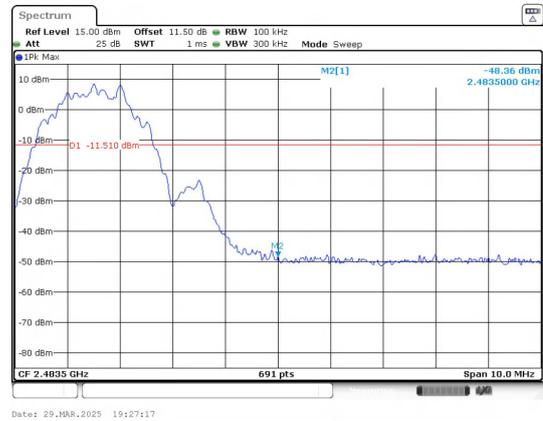
**In-Band Reference Level  
BLE 1M\_Channel 39**



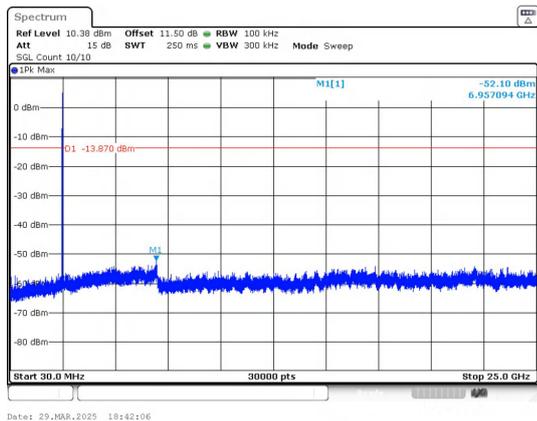
**In-Band Reference Level  
BLE 2M\_Channel 39**



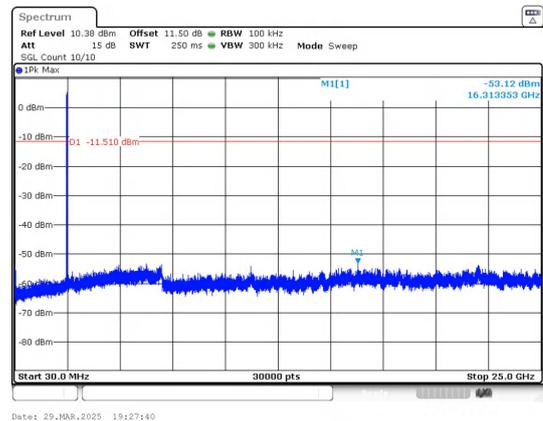
**Out Of Band Emission  
BLE 1M\_Channel 39**



**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-----