

# Appendix A

Report No.:	CISRR24041508701
FCC ID:	2AWDJ-BLM7100
Product Name:	Energy Efficiency Label
Model No.:	BLM7100
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

## 1) Conducted Peak Output Power

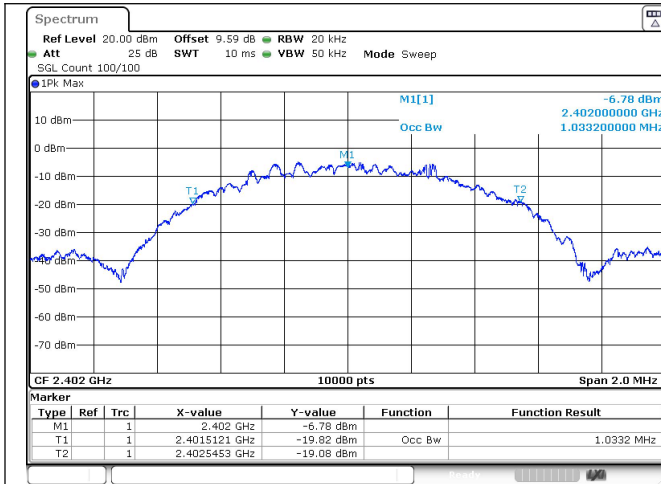
### Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	1.711	1.48	30	PASS
	19	1.156	1.31	30	PASS
	39	1.027	1.27	30	PASS

## 99% Bandwidth Test Result

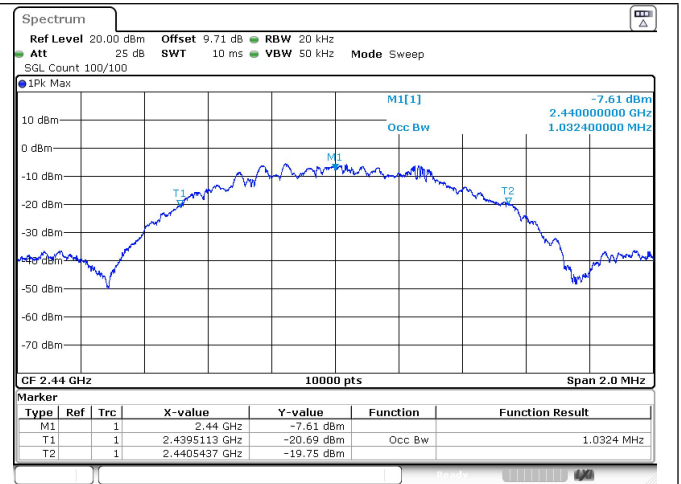
Mode	Channel	99% BW (MHz)
LE	0	1.0330
LE	19	1.0320
LE	39	1.0330

## Test Graphs



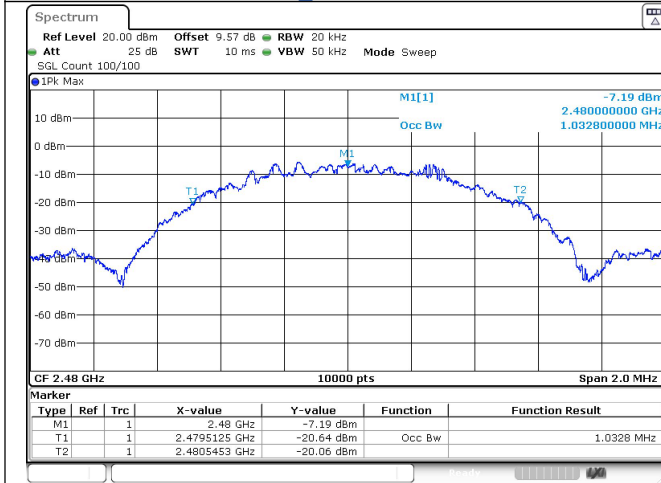
Date: 17.APR.2024 16:23:04

**LE Channel 0**



Date: 17.APR.2024 16:25:36

**LE Channel 19**



Date: 17.APR.2024 16:27:48

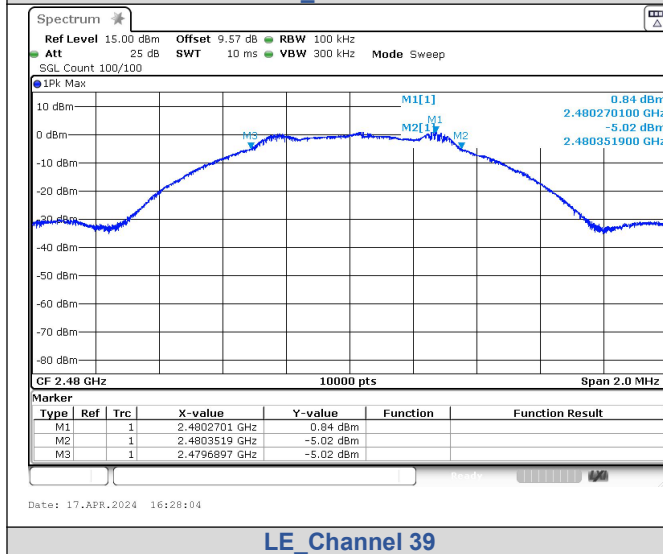
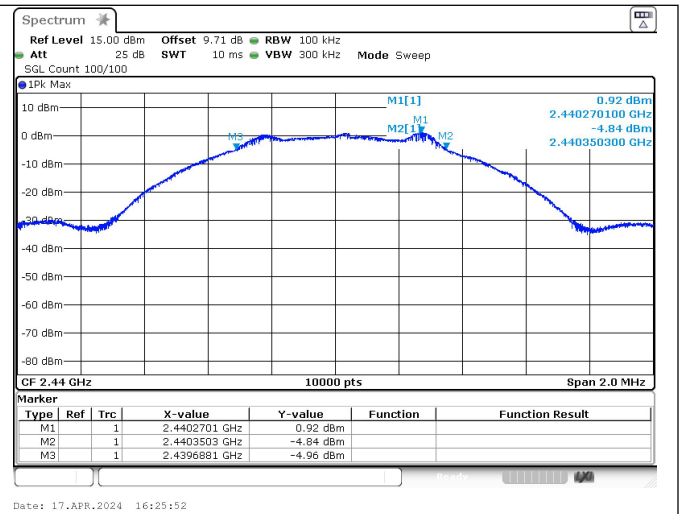
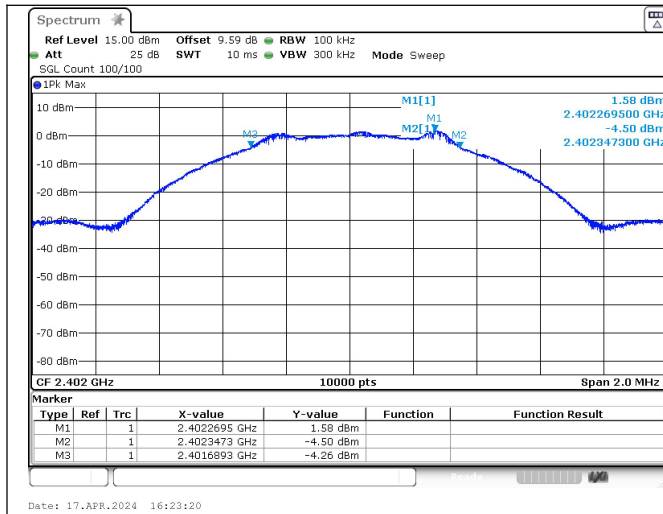
**LE Channel 39**

## 6dB Bandwidth

### Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.6600	0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS

### Test Graphs

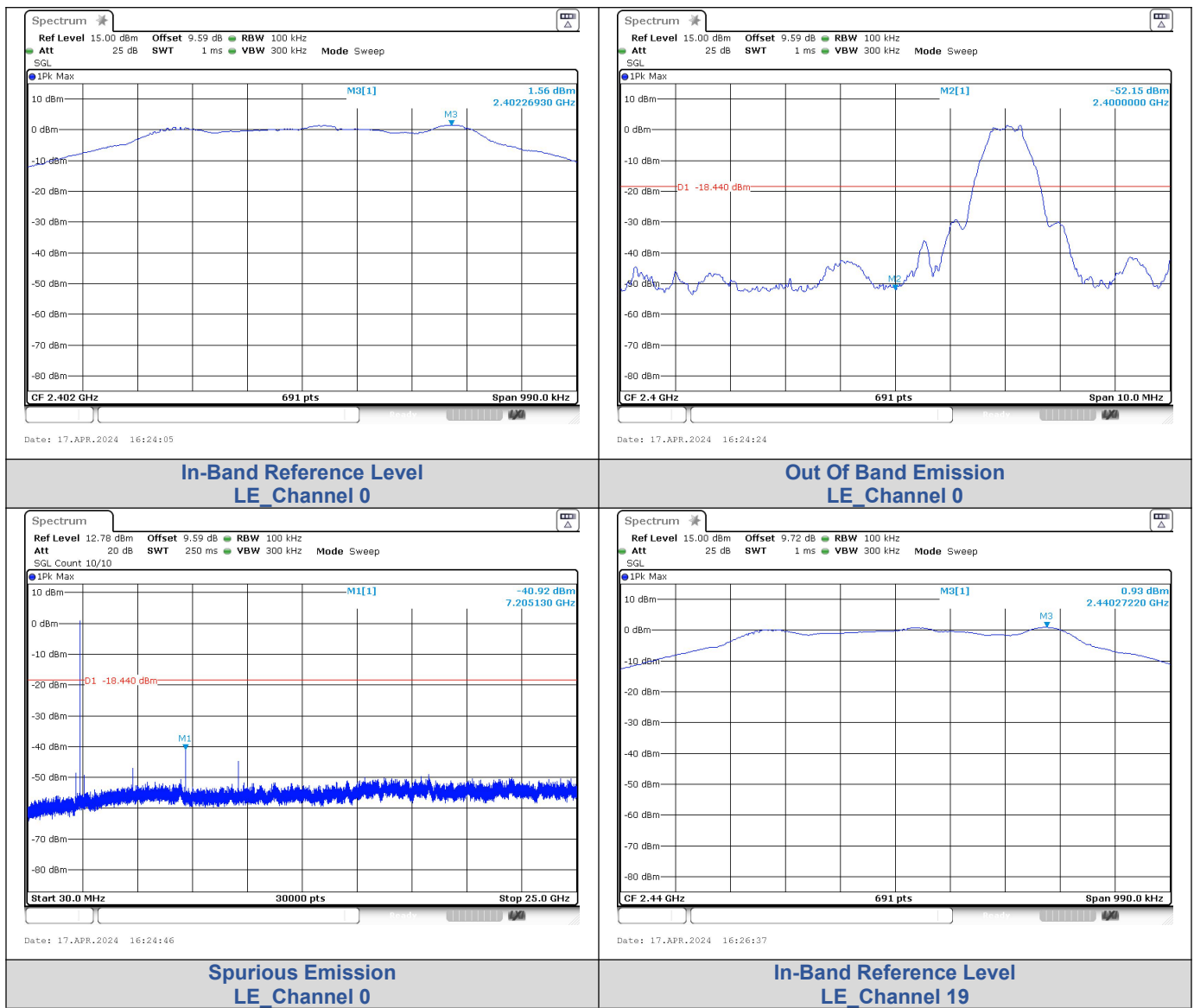


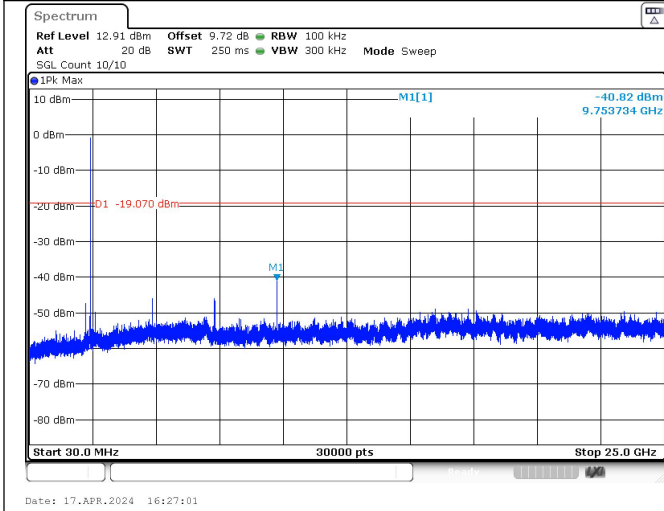
## Conducted Out Of Band Emission

### Test Result

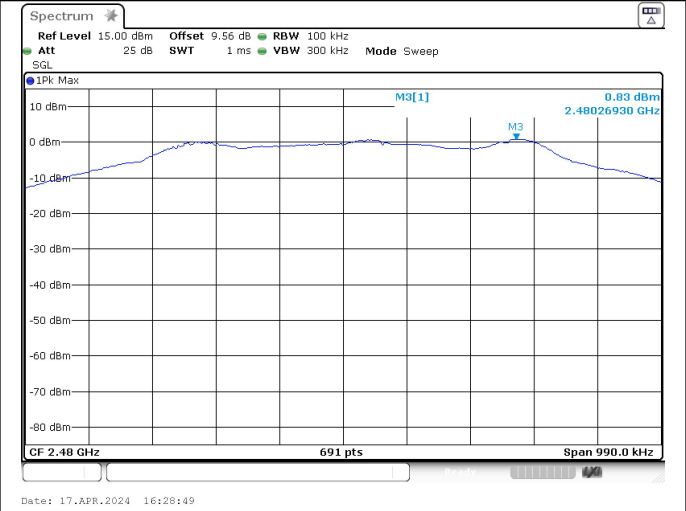
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-52.151	-18.44	-33.712	PASS
		2399.00	-42.612	-18.44	-24.172	PASS
		7205.10	-40.923	-18.44	-22.483	PASS
	39	9753.73	-40.824	-19.07	-21.754	PASS
		2483.50	-46.497	-19.17	-27.327	PASS
		9914.37	-39.876	-19.17	-20.706	PASS

### Test Graphs

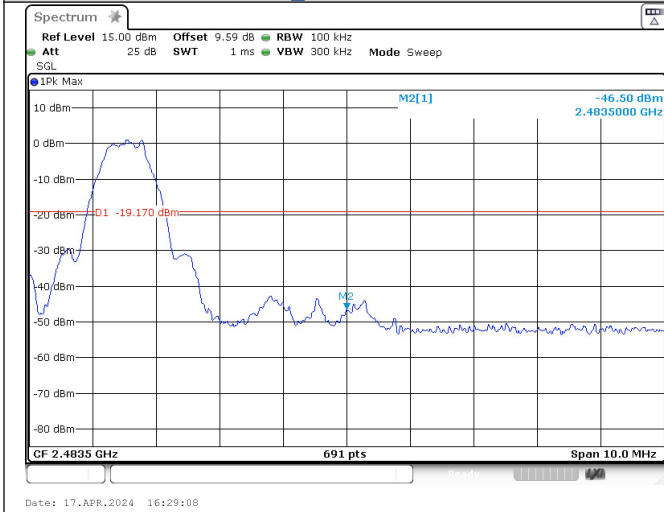




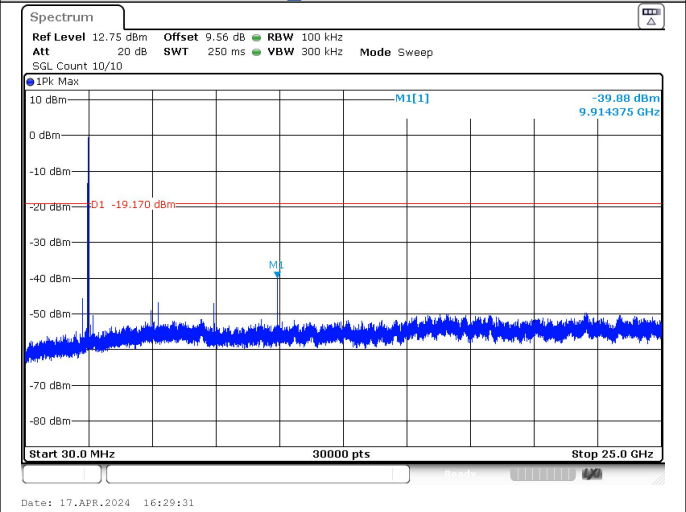
**Spurious Emissions  
LE\_Channel 19**



**In-Band Reference Level  
LE\_Channel 39**



**Out Of Band Emission  
LE\_Channel 39**



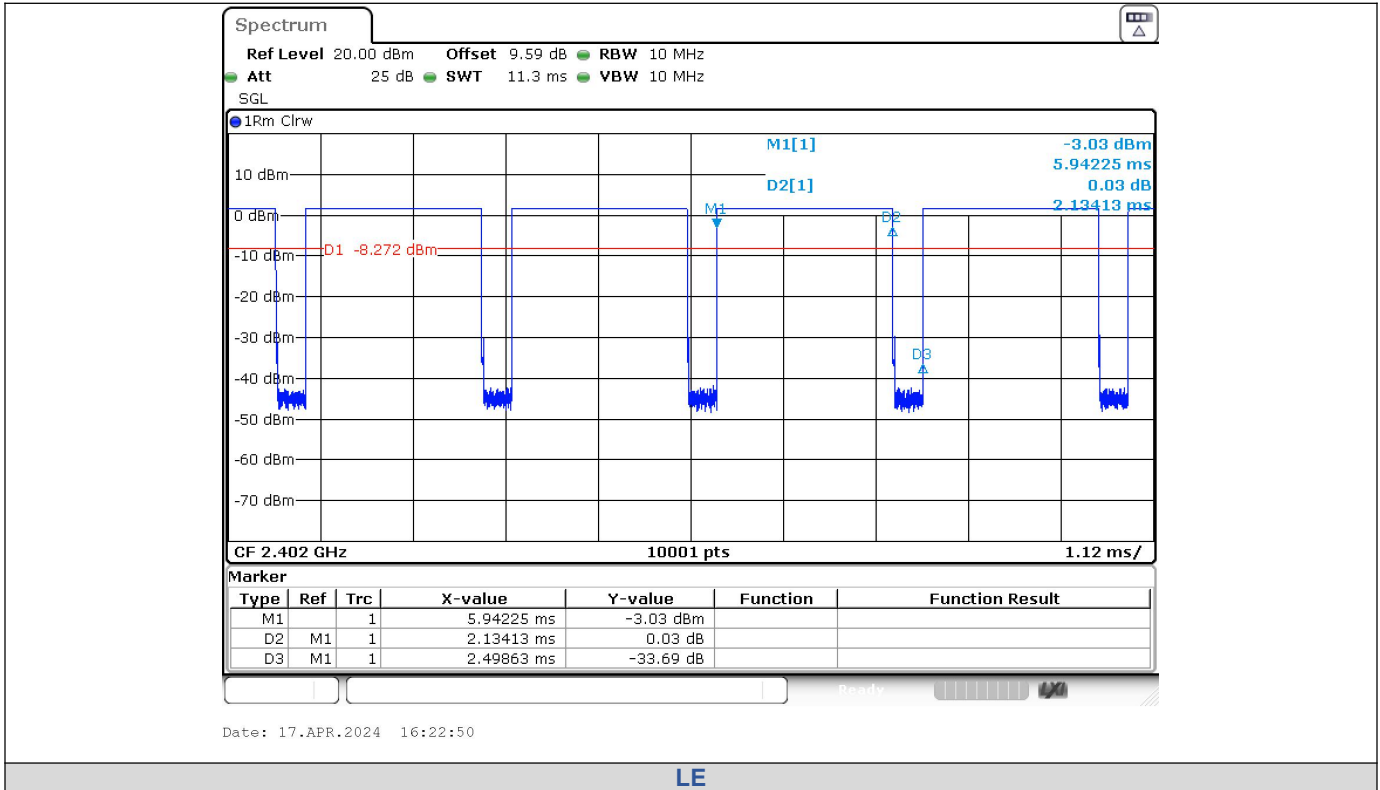
**Spurious Emission  
LE\_Channel 39**

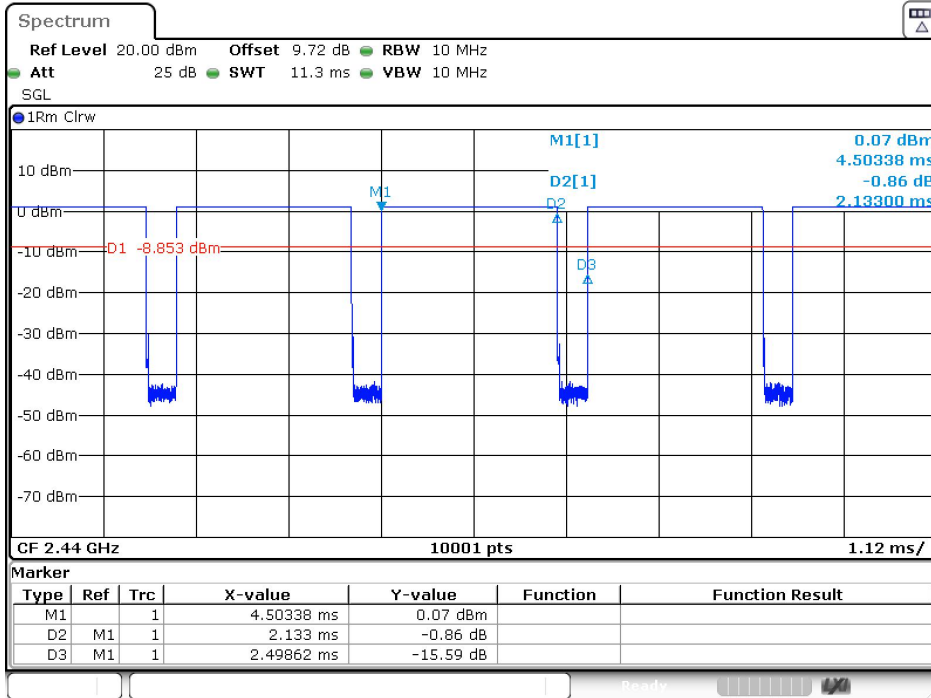
## Duty Cycle

### Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
LE	0	2.134	2.499	85.41	0.8541	0.6849	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.134	2.499	85.41	0.8541	0.6849	0.47

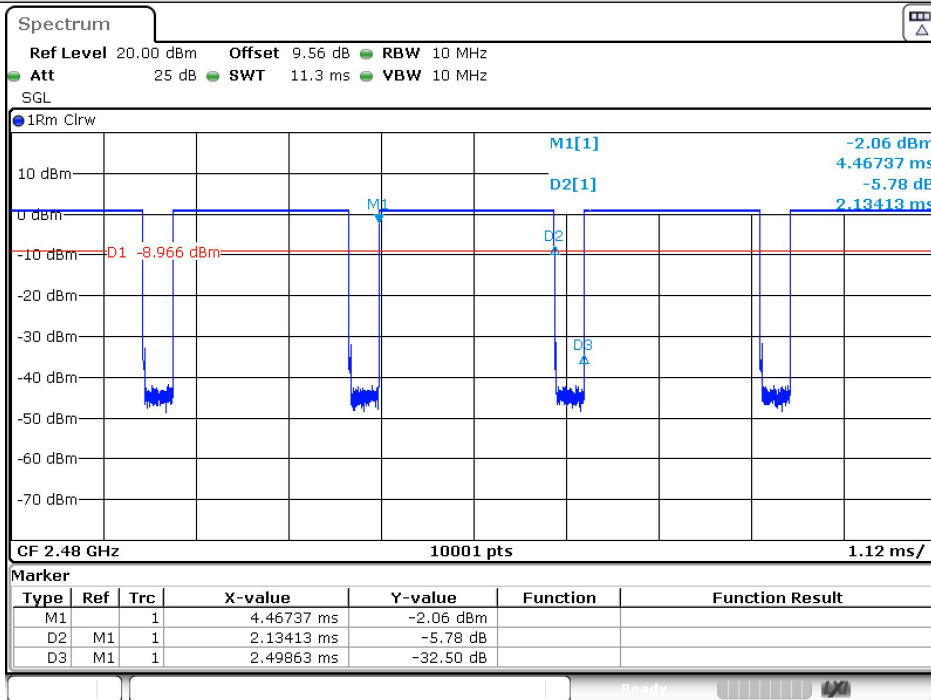
### Test Graphs





Date: 17.APR.2024 16:25:22

LE



Date: 17.APR.2024 16:27:34

LE

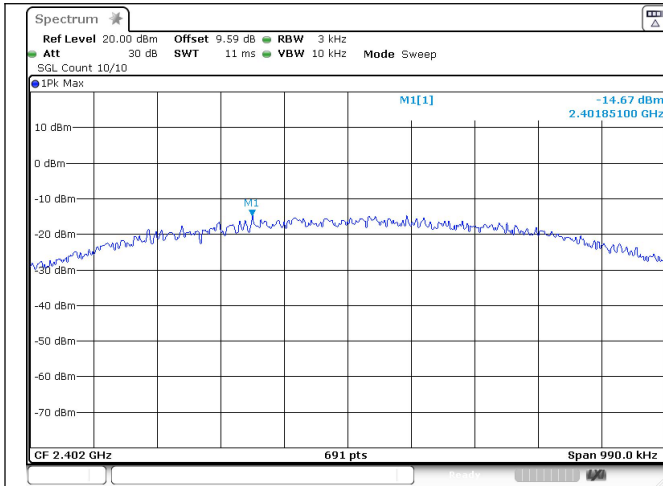


## Power Spectral Density

### Test Result

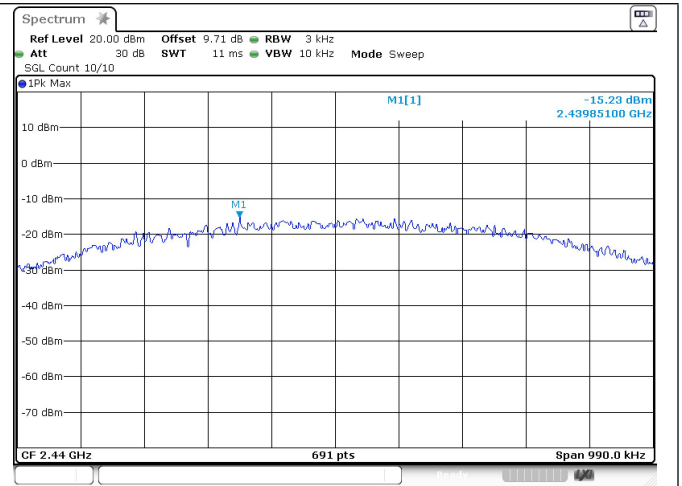
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-14.672	8	PASS
LE	19	-15.226	8	PASS
LE	39	-15.483	8	PASS

### Test Graphs



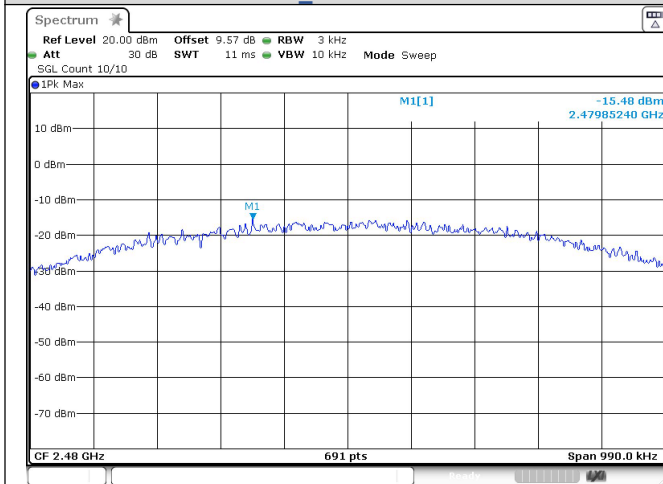
Date: 17.APR.2024 16:23:51

**LE\_Channel 0**



Date: 17.APR.2024 16:26:23

**LE\_Channel 19**



Date: 17.APR.2024 16:28:35

**LE\_Channel 39**