

## Appendix A

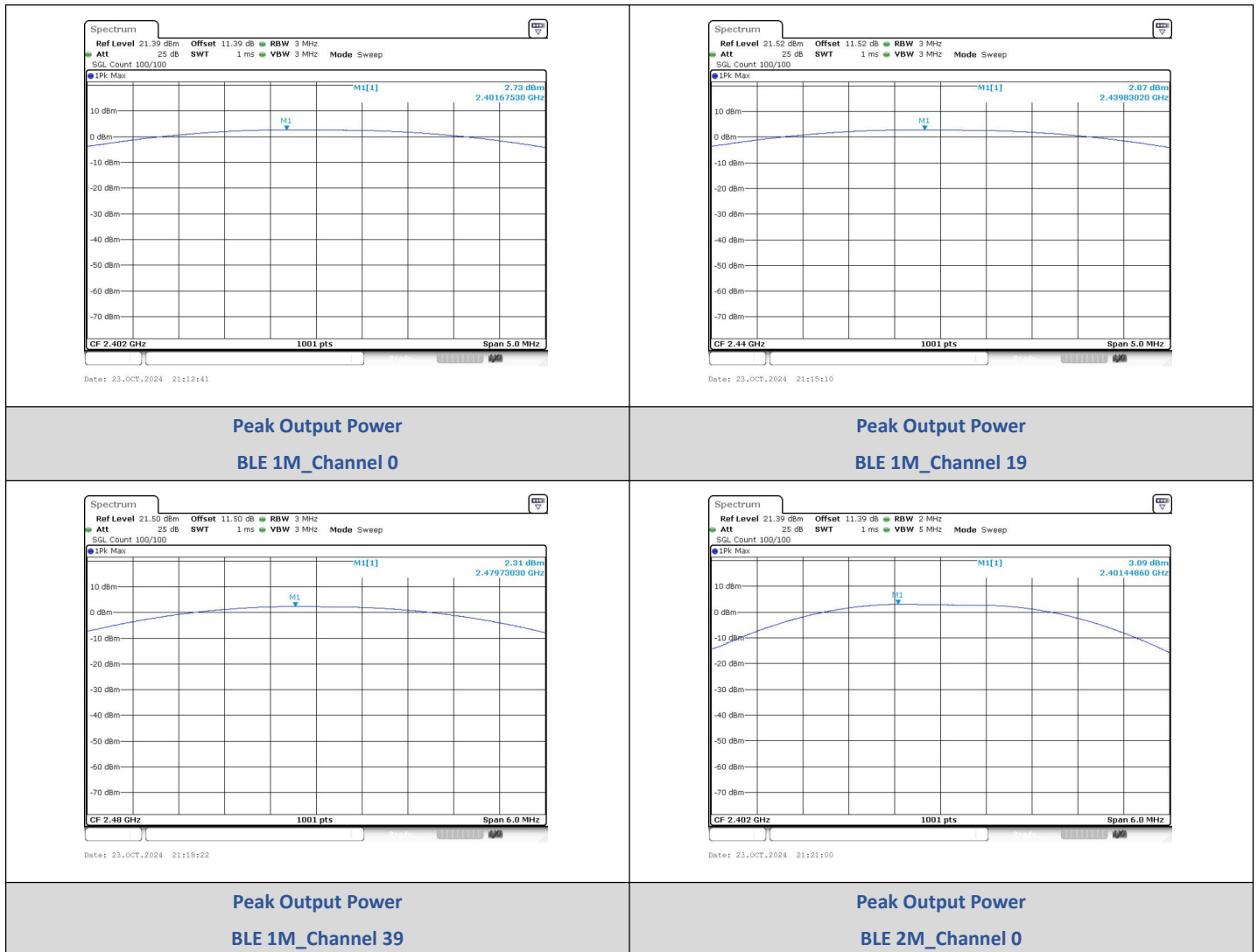
Report No.:	CISRR241018104
FCC ID:	2BDZJ-K10
Product Name:	wireless headphone
Model No.:	K10
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

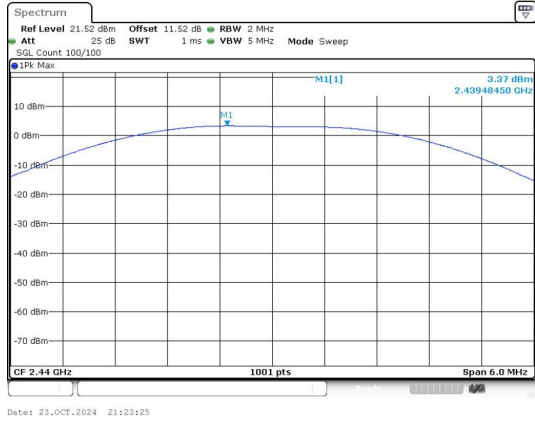
# 1) Conducted Output Power

## Test Result

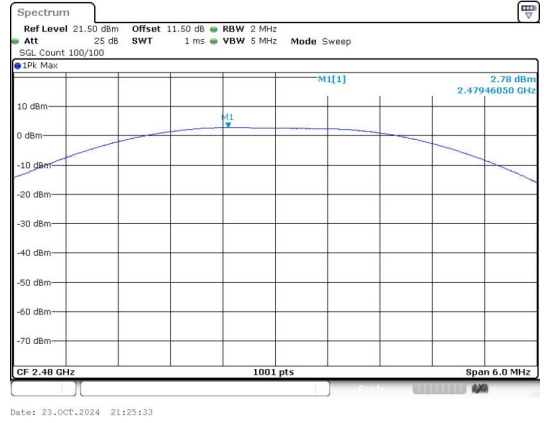
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.73	1.88	≤30	PASS
	19	2.87	1.94	≤30	PASS
	39	2.31	1.7	≤30	PASS
BLE 2M	0	3.09	2.04	≤30	PASS
	19	3.37	2.17	≤30	PASS
	39	2.78	1.9	≤30	PASS

## Test Graphs





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



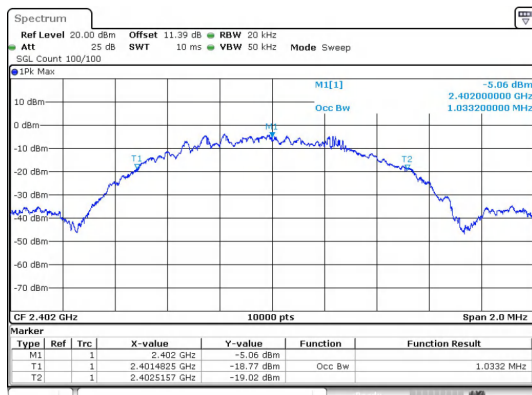
**Peak Output Power  
BLE 2M\_Channel 39**

## 2) 99% Bandwidth

### Test Result

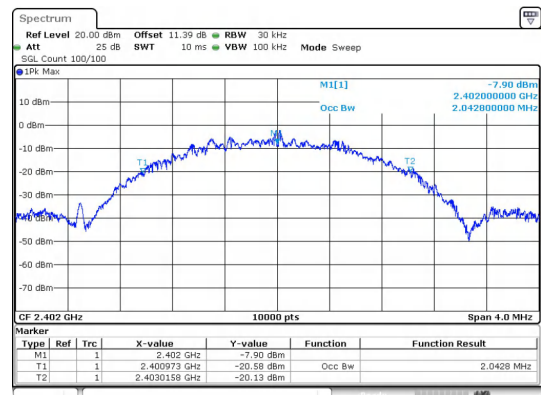
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0332
BLE 1M	19	2440	1.0332
BLE 1M	39	2480	1.0306
BLE 2M	0	2402	2.0428
BLE 2M	19	2440	2.0624
BLE 2M	39	2480	2.0540

### Test Graphs



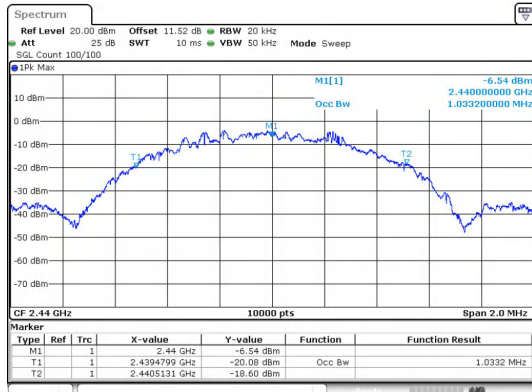
Date: 23.OCT.2024 21:12:11

BLE 1M\_Channel 0



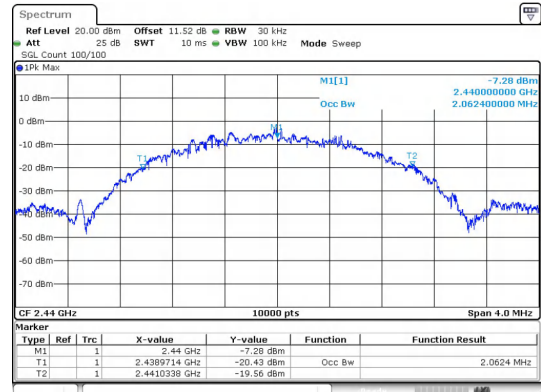
Date: 23.OCT.2024 21:20:29

BLE 2M\_Channel 0



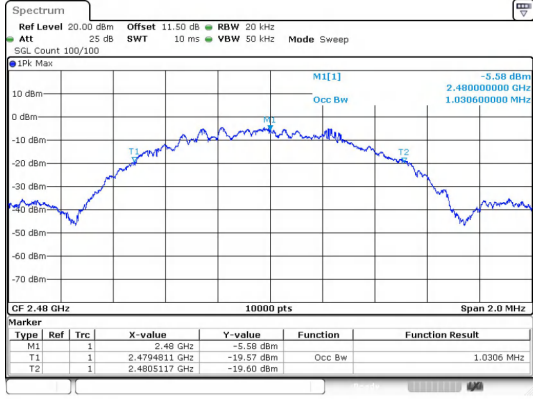
Date: 23.OCT.2024 21:14:39

BLE 1M\_Channel 19

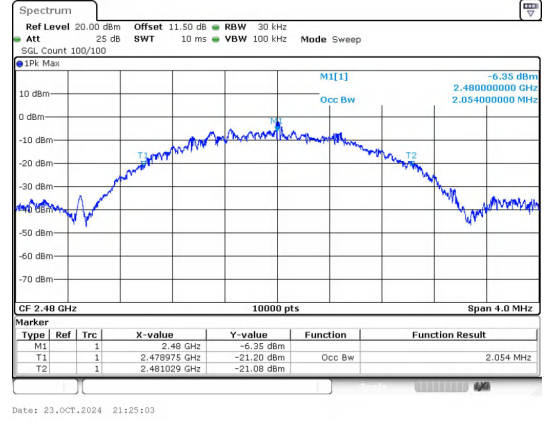


Date: 23.OCT.2024 21:22:55

BLE 2M\_Channel 19



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	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.140		PASS
	39	2480	1.150		PASS

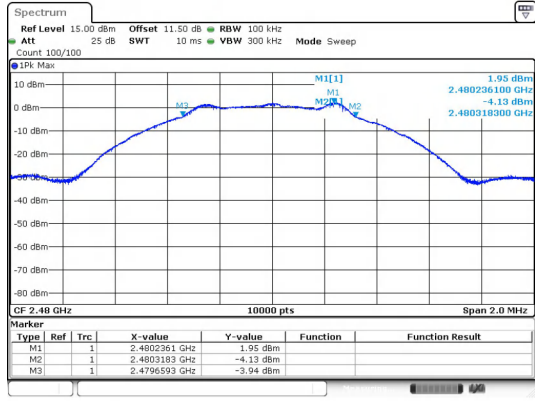
**Test Graphs**

**BLE 1M\_Channel 0**

**BLE 2M\_Channel 0**

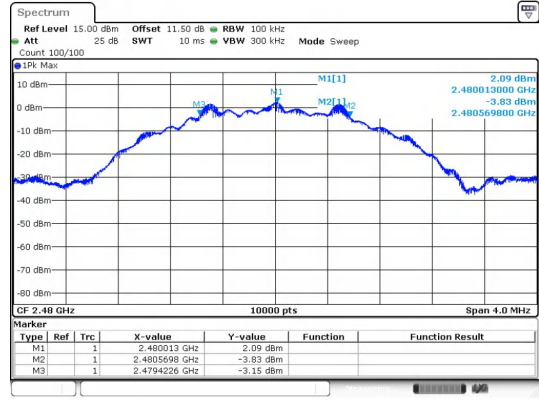
**BLE 1M\_Channel 19**

**BLE 2M\_Channel 19**



Date: 23.OCT.2024 21:18:08

BLE 1M\_Channel 39



Date: 23.OCT.2024 21:25:20

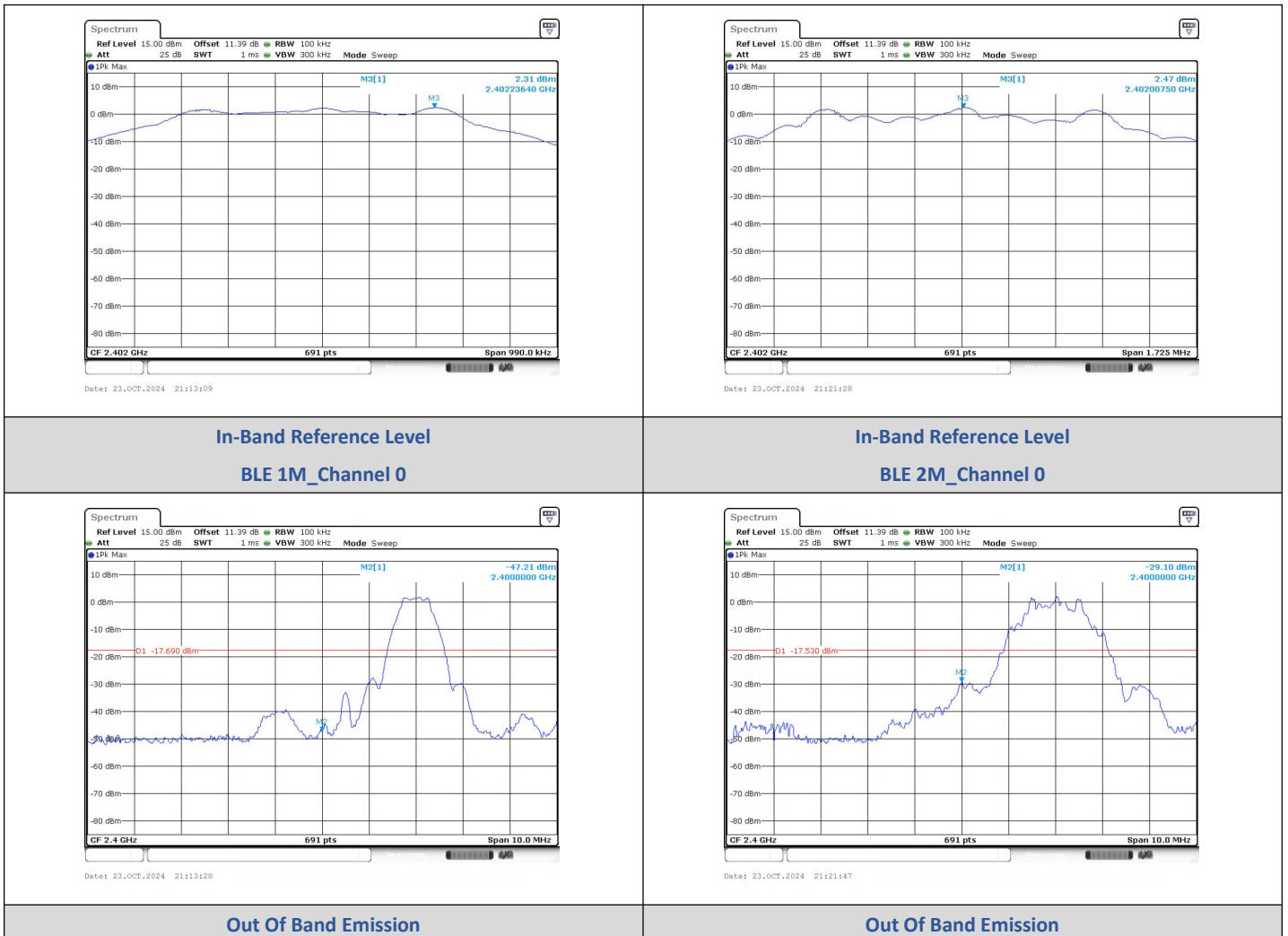
BLE 2M\_Channel 39

## 4) Conducted Out Of Band Emission

### Test Result

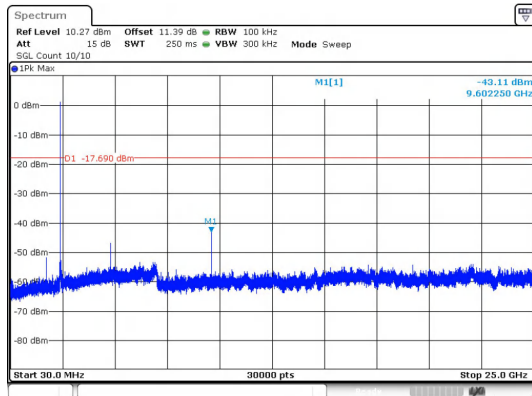
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-40.635	-17.69	-22.945	PASS
		2400.00	-47.211	-17.69	-29.521	PASS
	19	9602.20	-43.107	-17.69	-25.417	PASS
		9753.73	-41.941	-17.5	-24.441	PASS
		39	2483.50	-43.040	-18.05	-24.990
BLE 2M	0	1764.17	-39.916	-17.53	-22.386	PASS
		2400.00	-29.098	-17.53	-11.568	PASS
	19	9753.73	-42.365	-17.27	-25.095	PASS
		2483.50	-49.231	-17.9	-31.331	PASS
		39	9914.37	-42.034	-17.9	-24.134

### Test Graphs



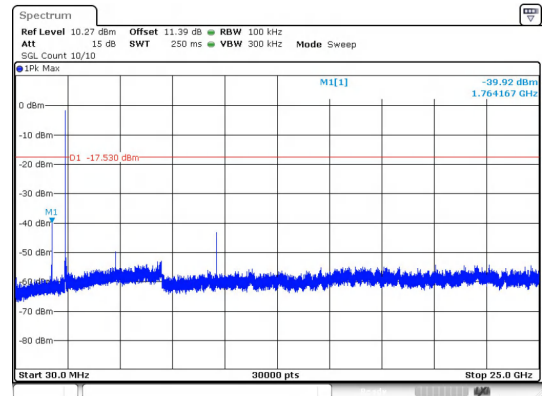


**BLE 1M\_Channel 0**



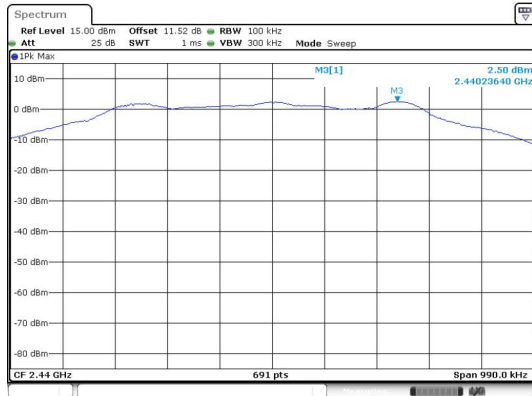
Date: 23.OCT.2024 21:13:50

**BLE 2M\_Channel 0**



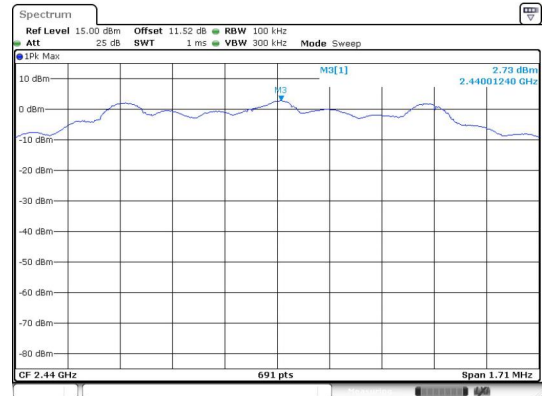
Date: 23.OCT.2024 21:22:09

**30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 0**



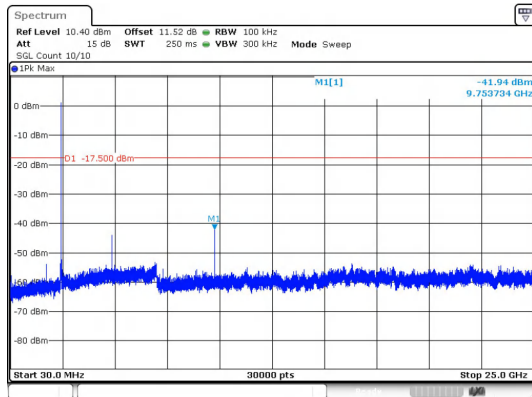
Date: 23.OCT.2024 21:15:37

**30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 0**



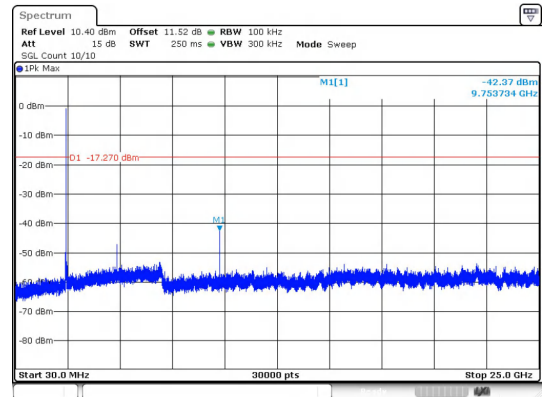
Date: 23.OCT.2024 21:23:53

**In-Band Reference Level  
BLE 1M\_Channel 19**



Date: 23.OCT.2024 21:16:01

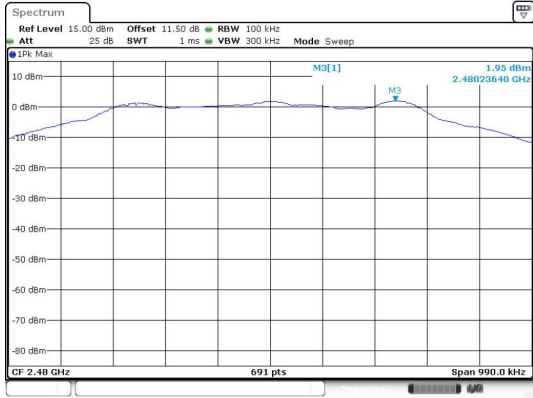
**In-Band Reference Level  
BLE 2M\_Channel 19**



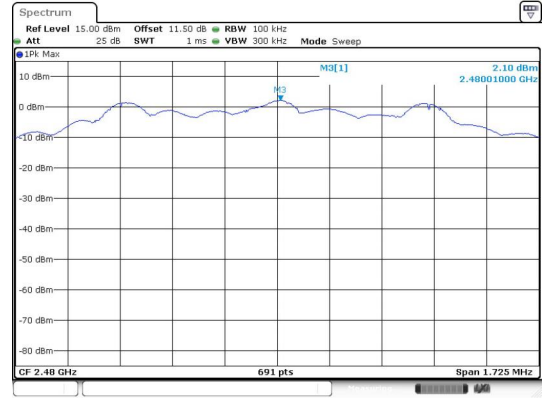
Date: 23.OCT.2024 21:24:17

**30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 19**

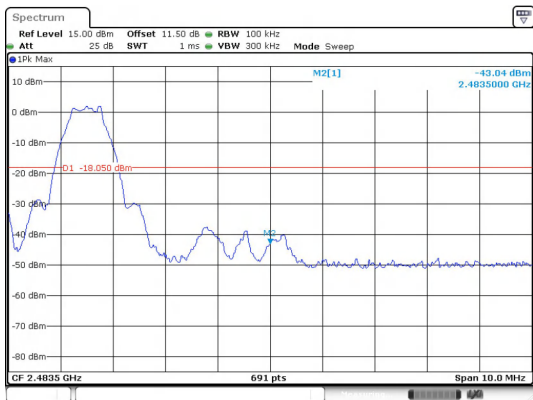
**30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 19**



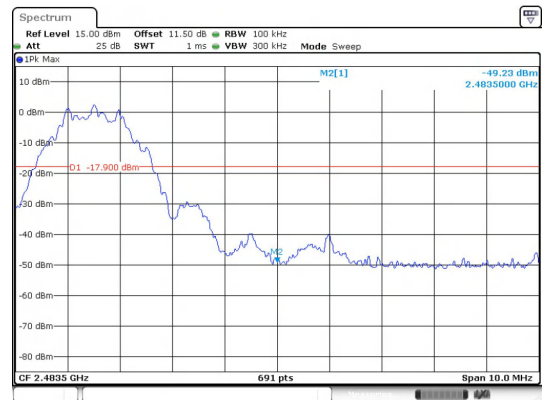
**In-Band Reference Level  
BLE 1M\_Channel 39**



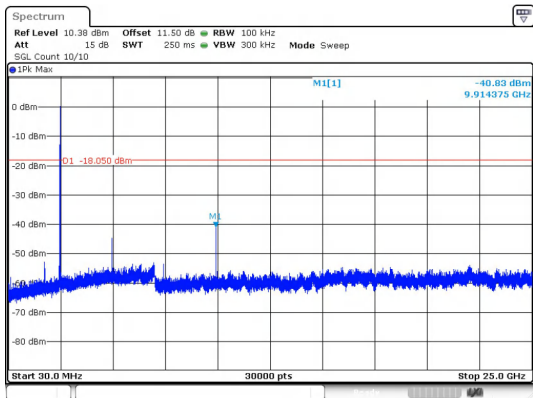
**In-Band Reference Level  
BLE 2M\_Channel 39**



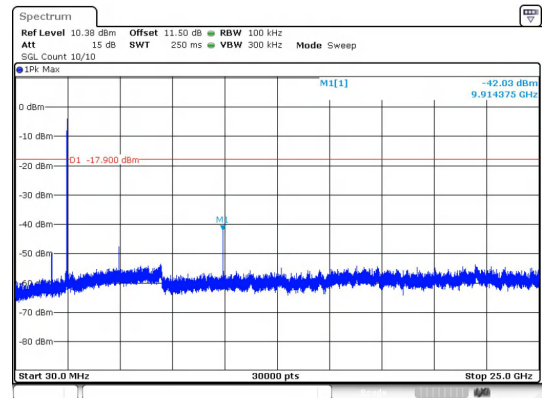
**Out Of Band Emission  
BLE 1M\_Channel 39**



**Out Of Band Emission  
BLE 2M\_Channel 39**



**30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 39**



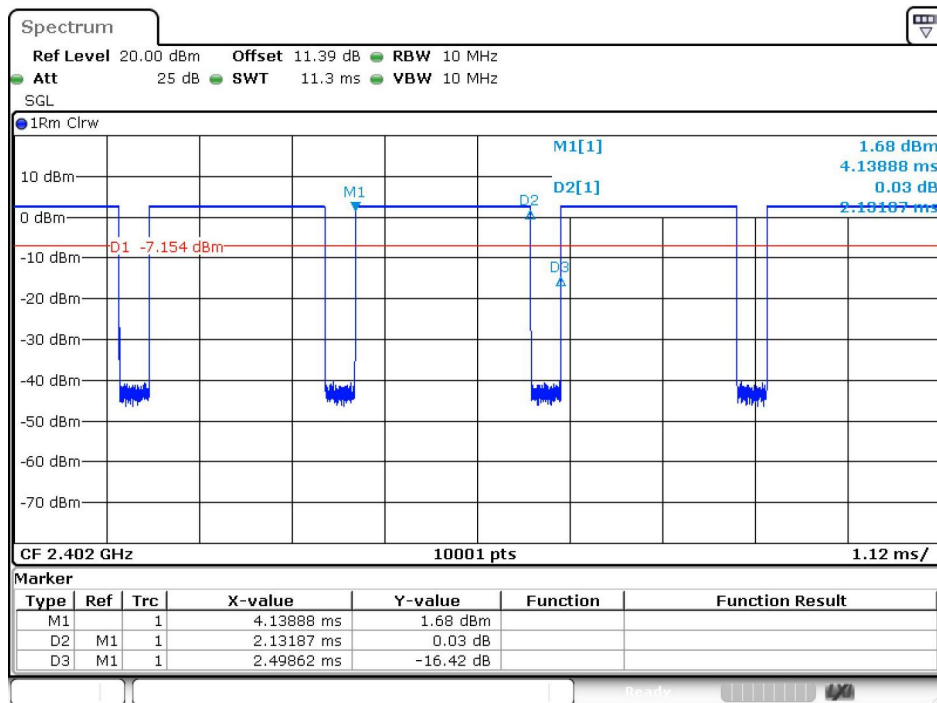
**30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 39**

## 5) Duty Cycle

### Test Result

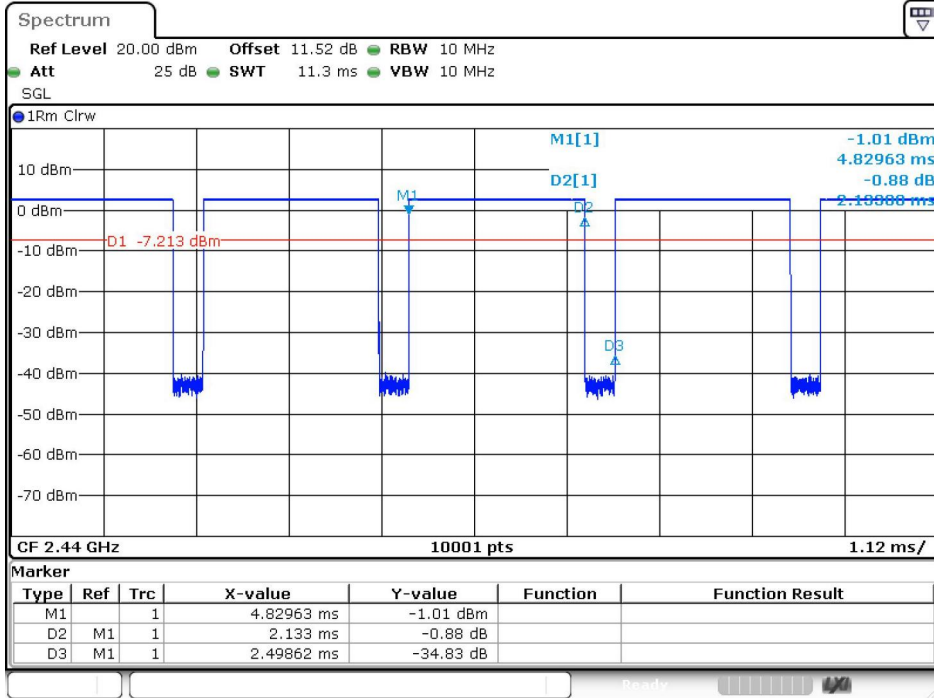
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.132	2.499	85.32	0.8532	0.6895	0.4690
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688
BLE 2M	0	1.080	2.499	43.22	0.4322	3.6432	0.9259
	19	1.080	2.499	43.22	0.4322	3.6432	0.9259
	39	1.081	2.500	43.25	0.4325	3.6401	0.9251

### Test Graphs



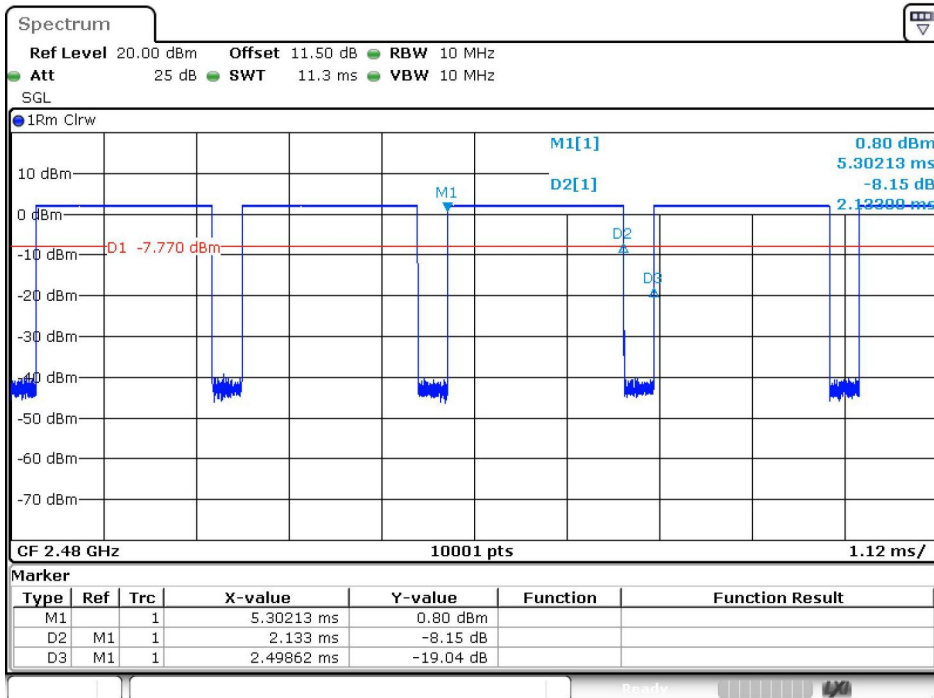
Date: 23.OCT.2024 21:11:56

BLE 1M\_Channel 0



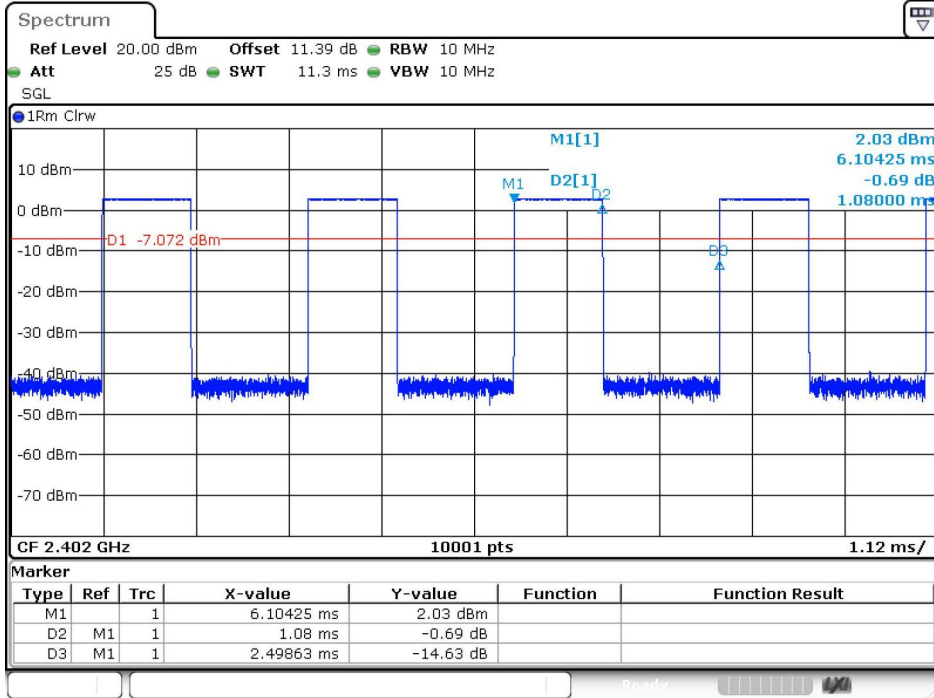
Date: 23.OCT.2024 21:14:24

BLE 1M\_Channel 19



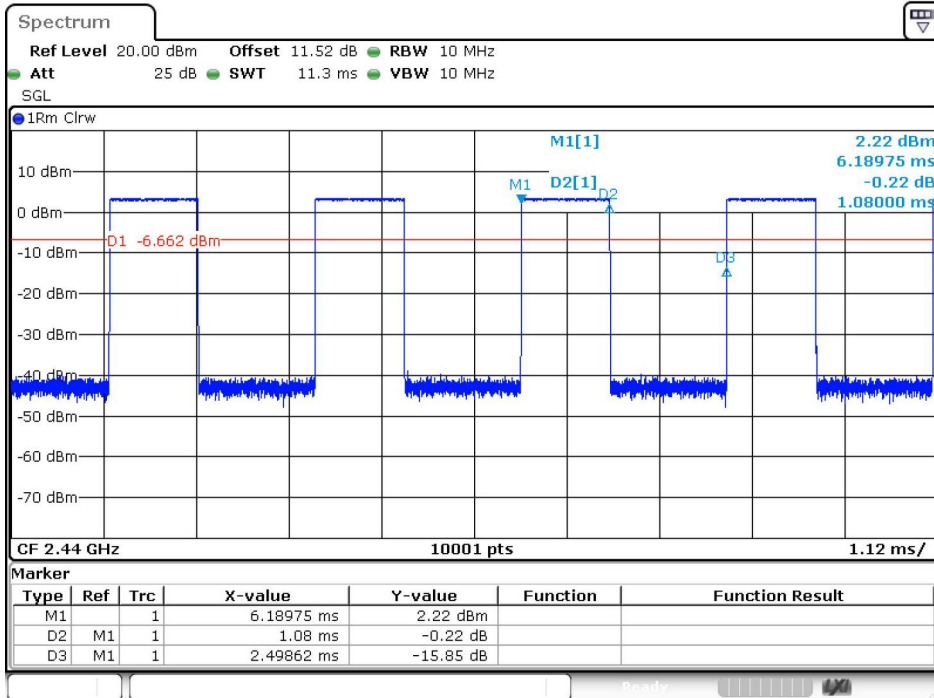
Date: 23.OCT.2024 21:17:36

BLE 1M\_Channel 39



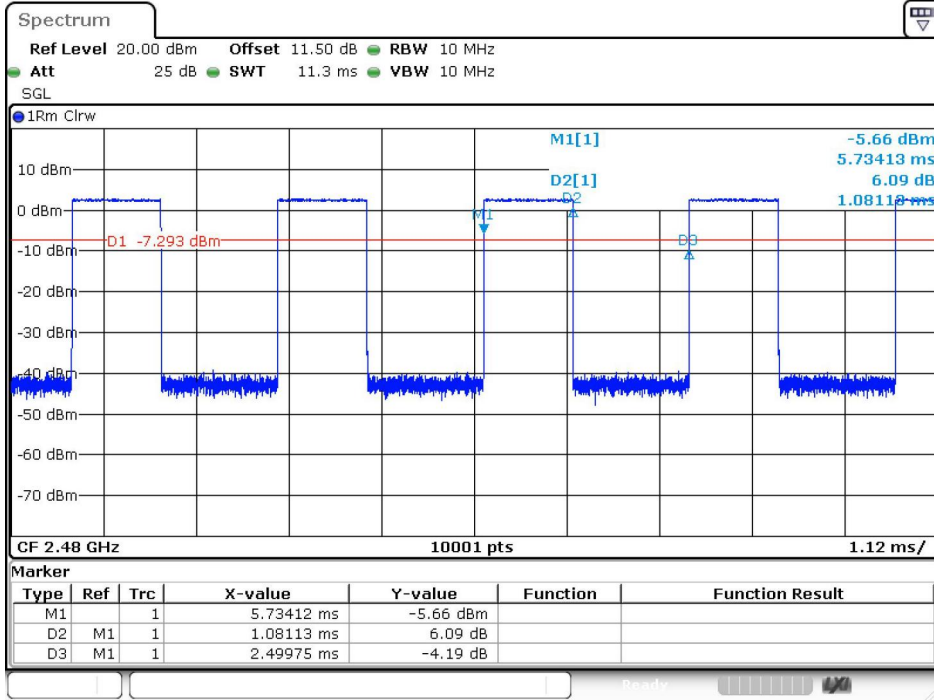
Date: 23.OCT.2024 21:20:14

BLE 2M\_Channel 0



Date: 23.OCT.2024 21:22:40

BLE 2M\_Channel 19



Date: 23.OCT.2024 21:24:47

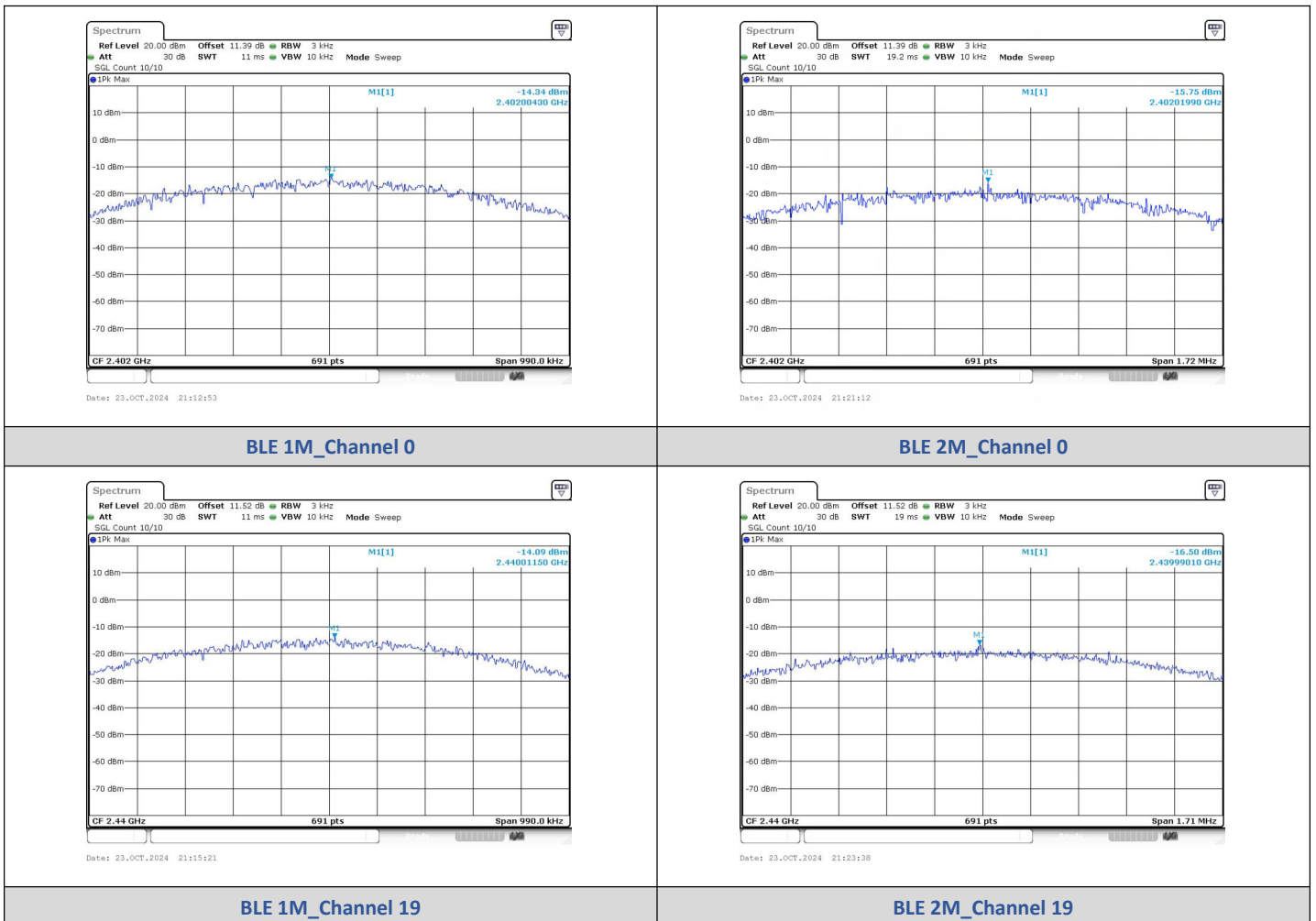
BLE 2M\_Channel 39

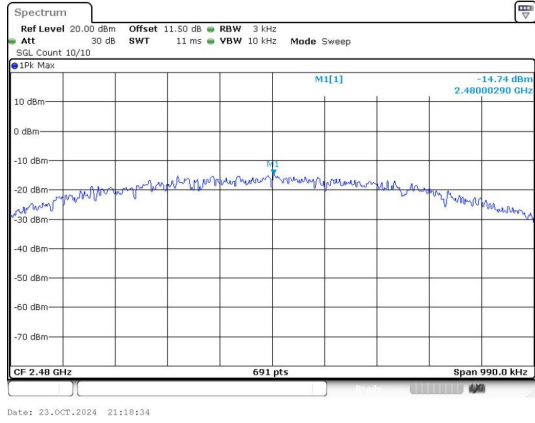
## 6) Power Spectral Density

### Test Result

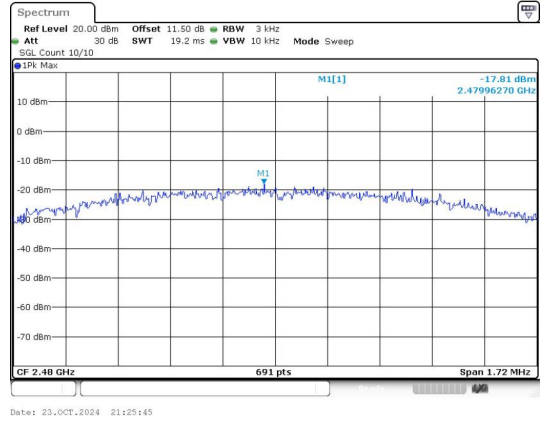
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.338	≤8	PASS
BLE 1M	19	-14.090	≤8	PASS
BLE 1M	39	-14.744	≤8	PASS
BLE 2M	0	-15.753	≤8	PASS
BLE 2M	19	-16.496	≤8	PASS
BLE 2M	39	-17.811	≤8	PASS

### Test Graphs





BLE 1M\_Channel 39



BLE 2M\_Channel 39