

## Appendix A

Report No.:	CISRR240926261
FCC ID:	2BGU9-YW15
Product Name:	wireless headphone
Model No.:	YW15
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

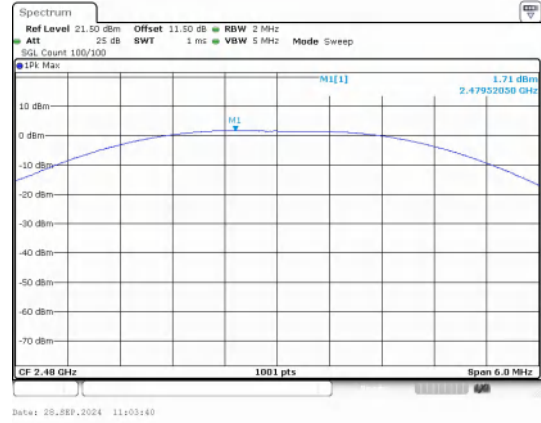
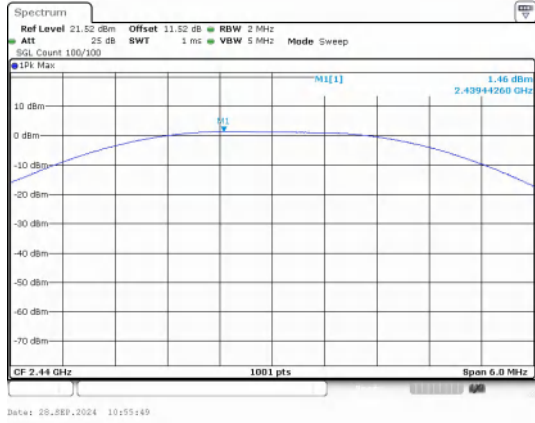
# 1) Conducted Output Power

## Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.68	1.17	≤30	PASS
	19	0.99	1.26	≤30	PASS
	39	1.29	1.35	≤30	PASS
BLE 2M	0	0.97	1.25	≤30	PASS
	19	1.46	1.4	≤30	PASS
	39	1.71	1.48	≤30	PASS

## Test Graphs

<p><b>Peak Output Power BLE 1M_Channel 0</b></p>	<p><b>Peak Output Power BLE 1M_Channel 19</b></p>
<p><b>Peak Output Power BLE 1M_Channel 39</b></p>	<p><b>Peak Output Power BLE 2M_Channel 0</b></p>

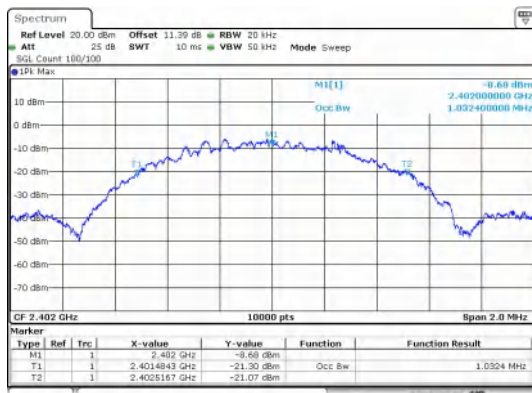


## 2) 99% Bandwidth

### Test Result

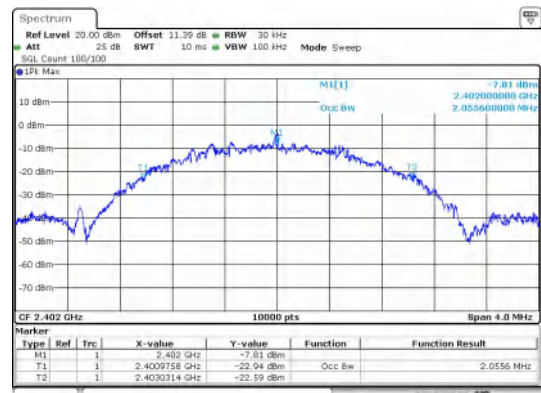
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0324
BLE 1M	19	2440	1.0304
BLE 1M	39	2480	1.0328
BLE 2M	0	2402	2.0556
BLE 2M	19	2440	2.0504
BLE 2M	39	2480	2.0604

### Test Graphs



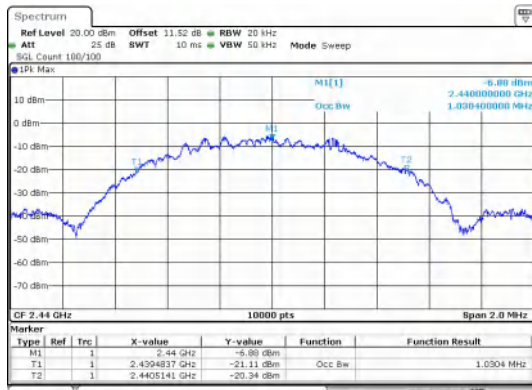
Date: 28-SEP-2024 10:59:12

BLE 1M\_Channel 0



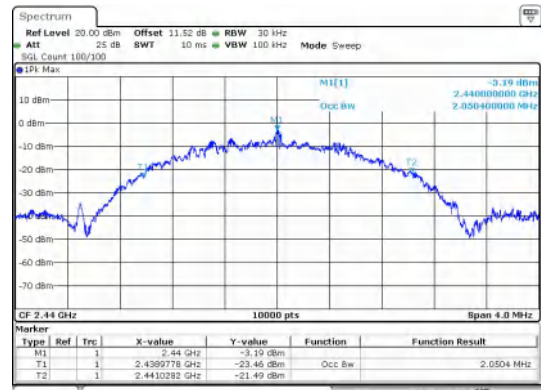
Date: 28-SEP-2024 10:50:05

BLE 2M\_Channel 0



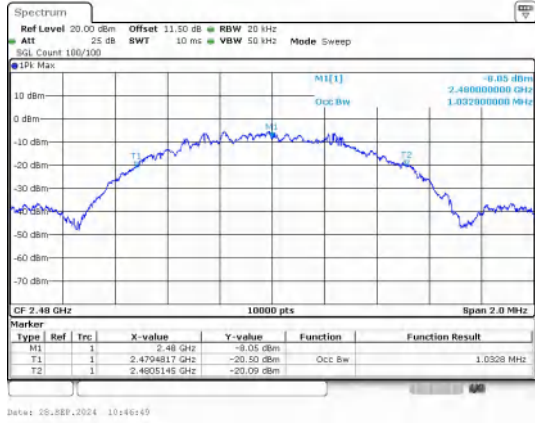
Date: 28-SEP-2024 10:41:59

BLE 1M\_Channel 19

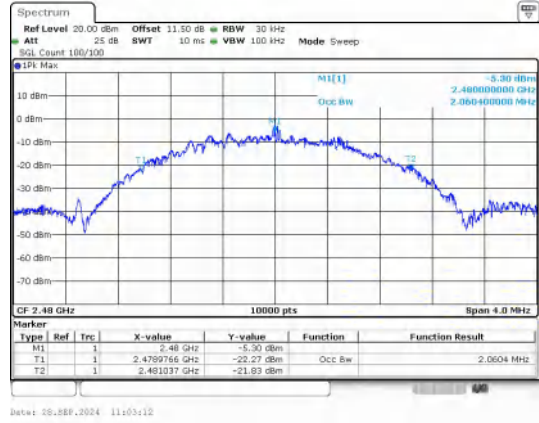


Date: 28-SEP-2024 10:55:20

BLE 2M\_Channel 19



BLE 1M\_Channel 39



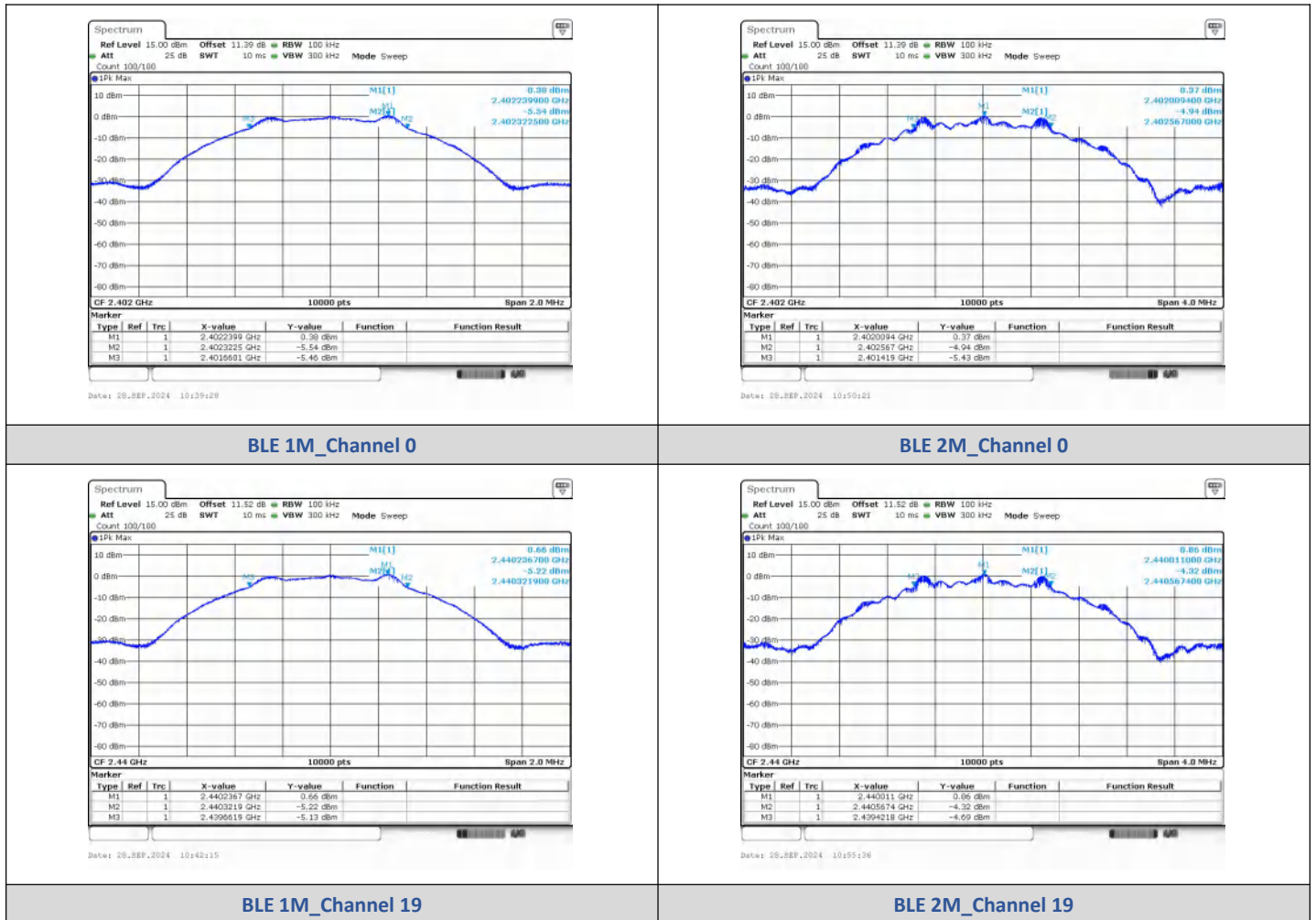
BLE 2M\_Channel 39

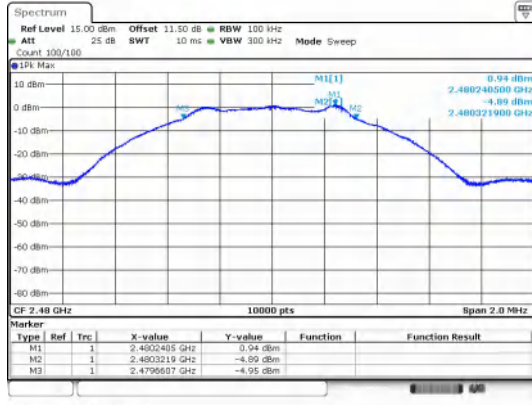
### 3) 6dB Bandwidth

**Test Result**

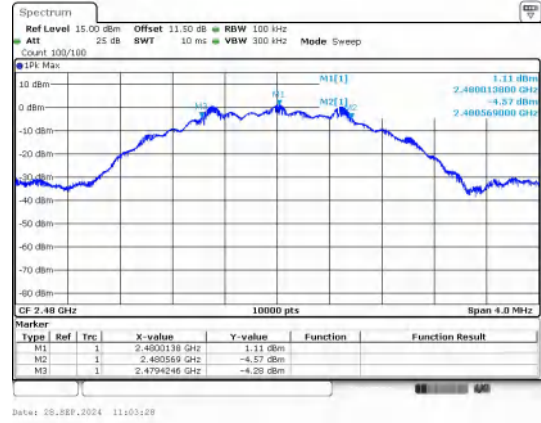
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

**Test Graphs**





BLE 1M\_Channel 39



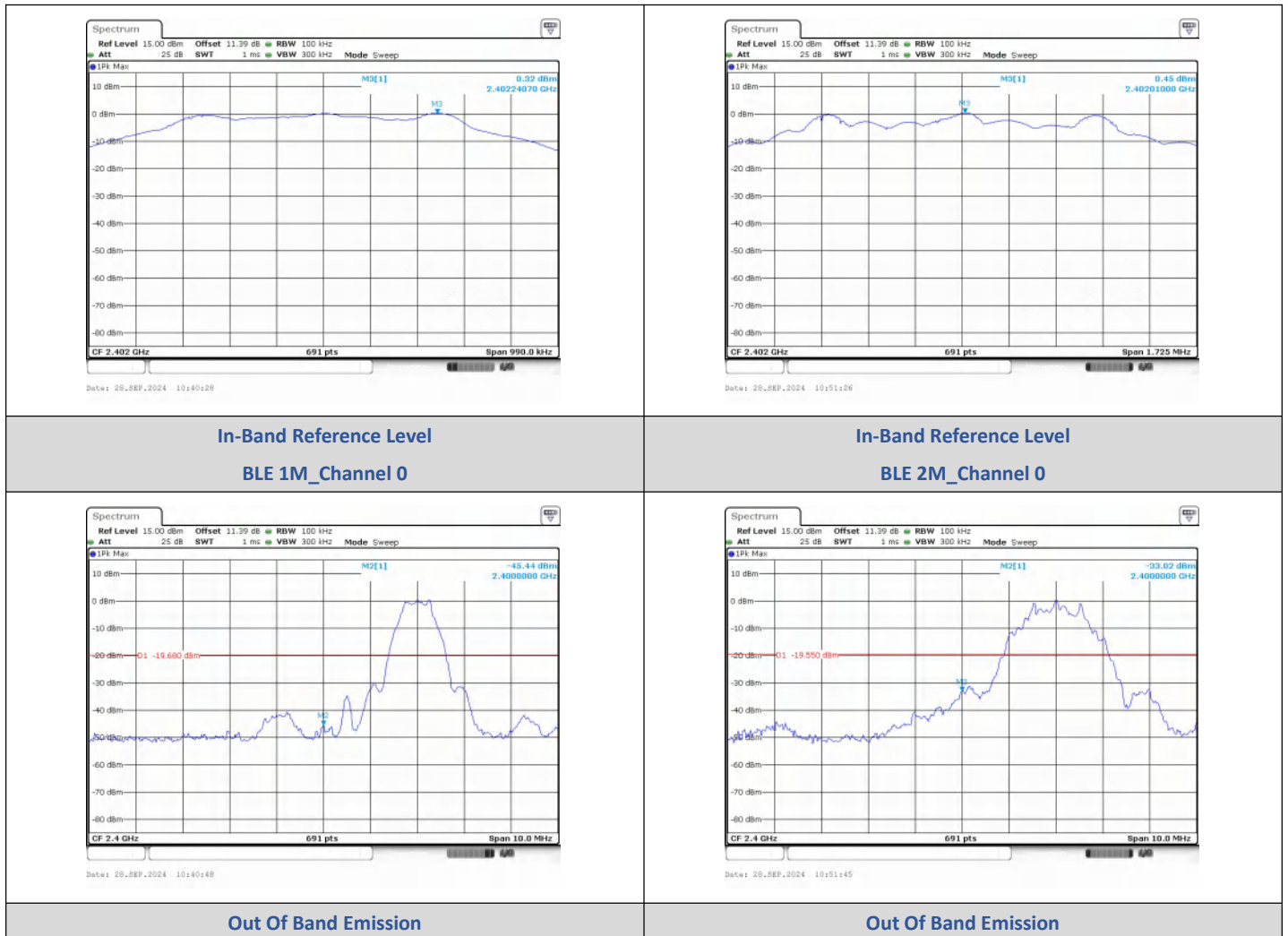
BLE 2M\_Channel 39

## 4) Conducted Out Of Band Emission

### Test Result

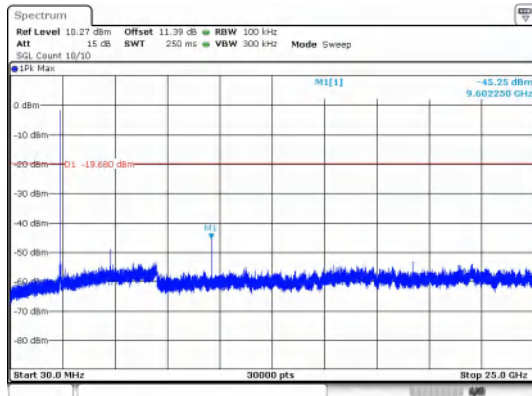
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-42.057	-19.68	-22.377	PASS
		2400.00	-45.442	-19.68	-25.762	PASS
	19	9602.20	-45.248	-19.68	-25.568	PASS
		9753.73	-41.647	-19.35	-22.297	PASS
		9914.37	-43.811	-19.16	-24.651	PASS
BLE 2M	0	2400.00	-33.024	-19.55	-13.474	PASS
		9602.25	-45.717	-19.55	-26.167	PASS
	19	9753.73	-42.340	-19.15	-23.190	PASS
		2483.50	-49.335	-18.81	-30.525	PASS
		9914.37	-42.255	-18.81	-23.445	PASS

### Test Graphs



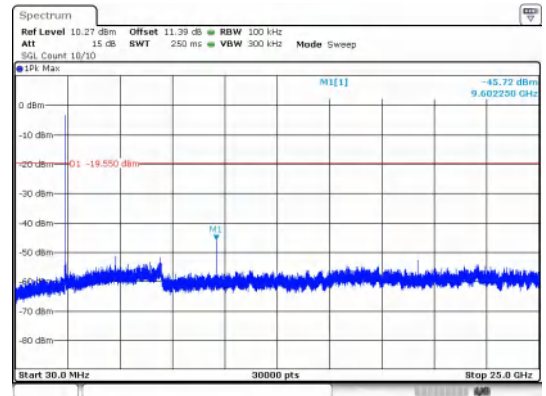


BLE 1M\_Channel 0



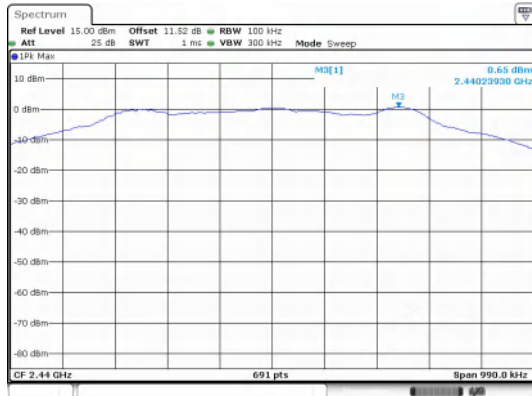
Date: 28\_SEP\_2024 10:41:10

BLE 2M\_Channel 0



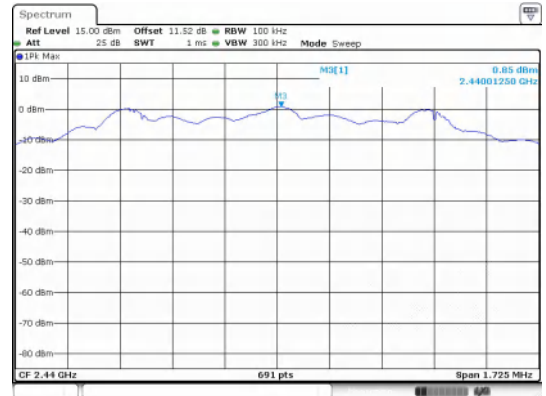
Date: 28\_SEP\_2024 10:52:08

30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 0



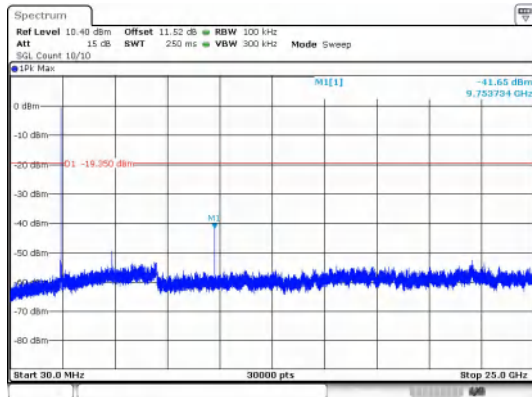
Date: 28\_SEP\_2024 10:43:17

30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 0



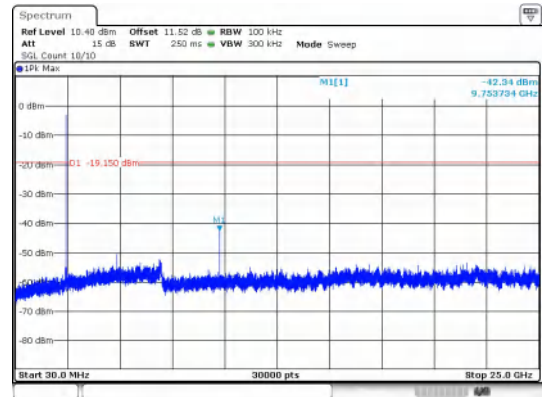
Date: 28\_SEP\_2024 10:56:41

In-Band Reference Level  
BLE 1M\_Channel 19



Date: 28\_SEP\_2024 10:43:41

In-Band Reference Level  
BLE 2M\_Channel 19



Date: 28\_SEP\_2024 10:57:05

30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 19

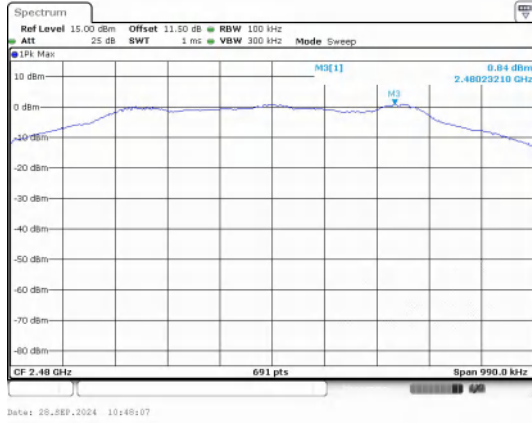


Date: 28\_SEP\_2024 10:43:41

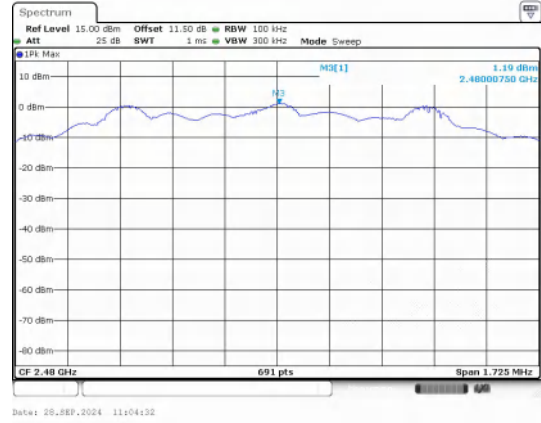
30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 19



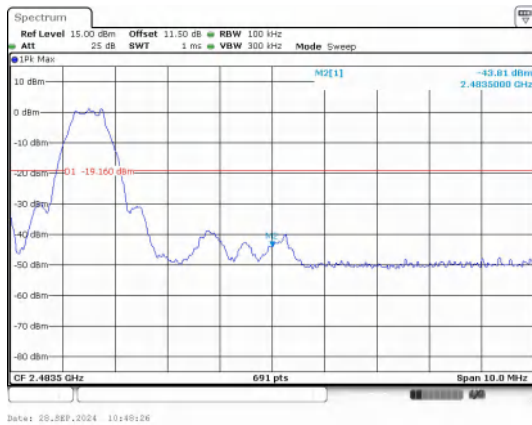
Date: 28\_SEP\_2024 10:57:05



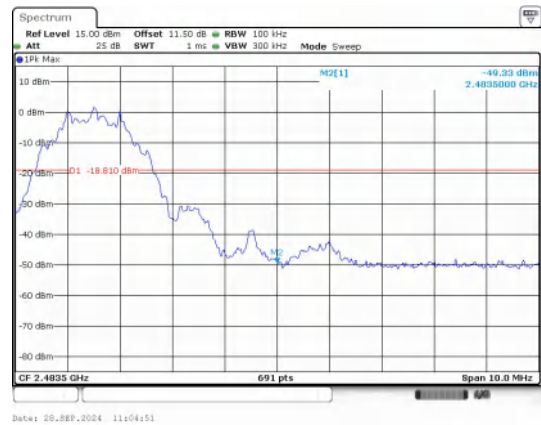
**In-Band Reference Level  
BLE 1M\_Channel 39**



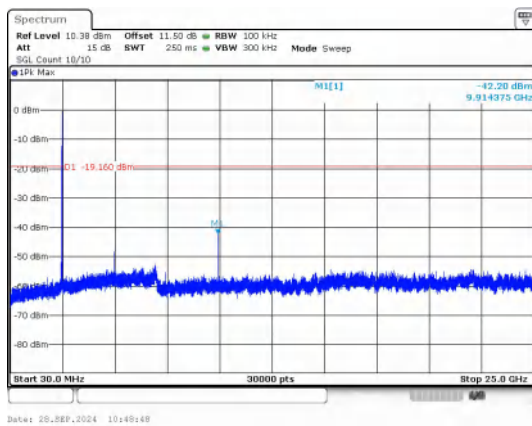
**In-Band Reference Level  
BLE 2M\_Channel 39**



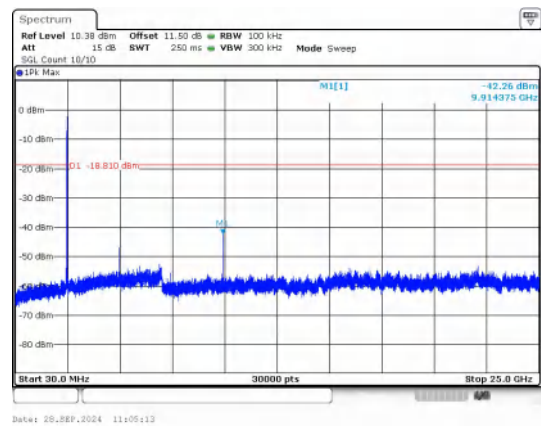
**Out Of Band Emission  
BLE 1M\_Channel 39**



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



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



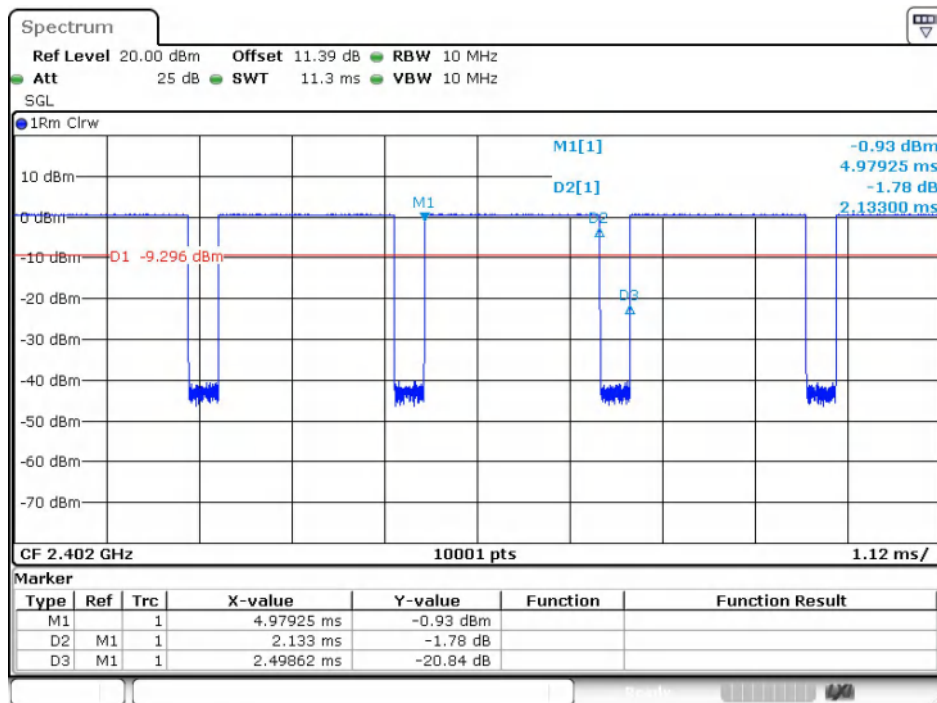
**30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 39**

## 5) Duty Cycle

### Test Result

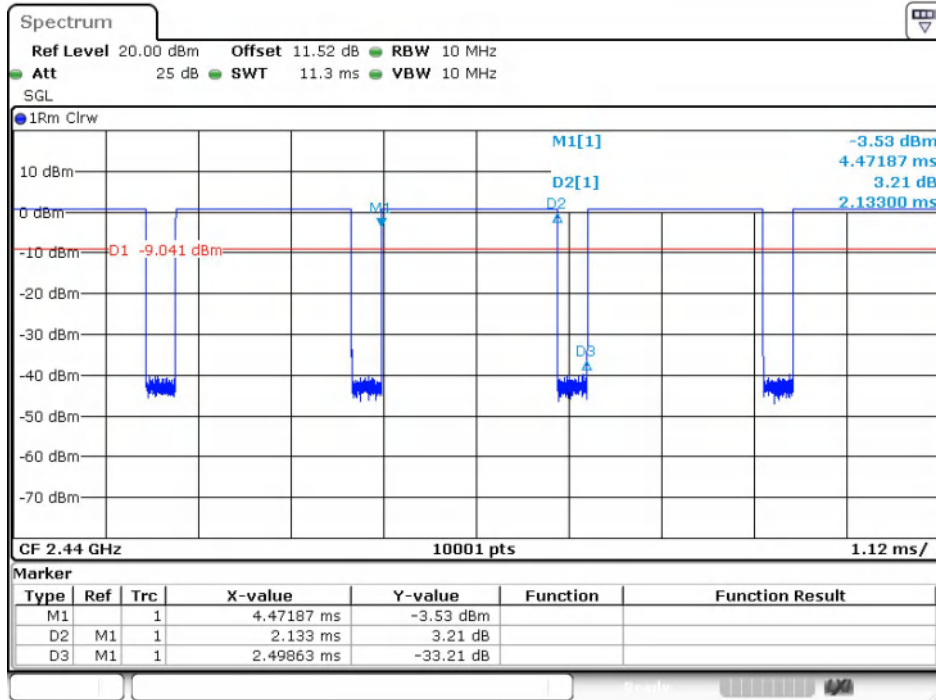
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.134	2.500	85.37	0.8537	0.6869	0.47
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.93
	19	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

### Test Graphs



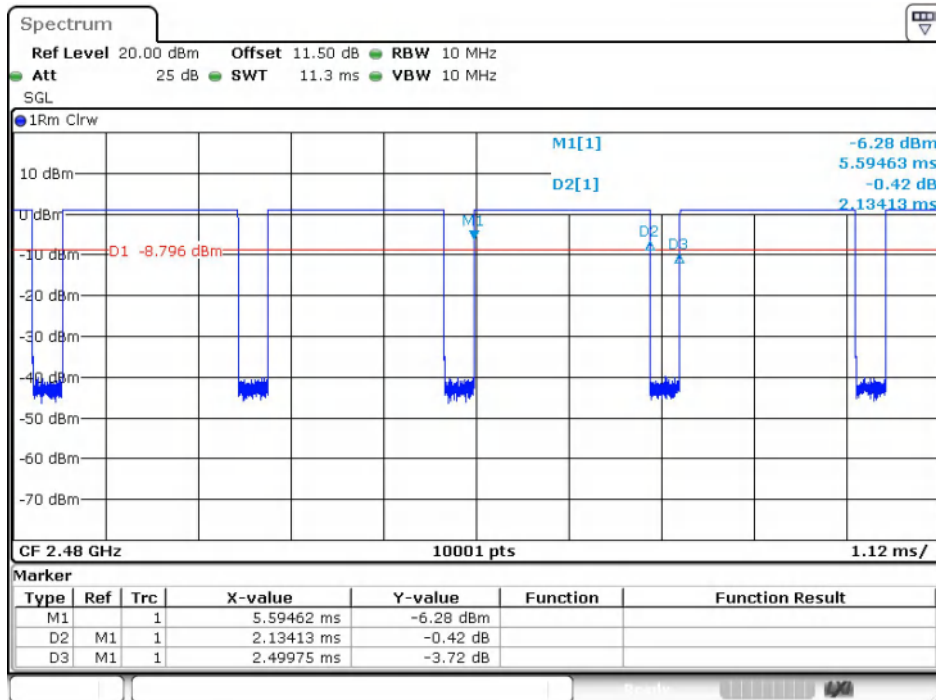
Date: 28.SEP.2024 10:38:58

BLE 1M\_Channel 0



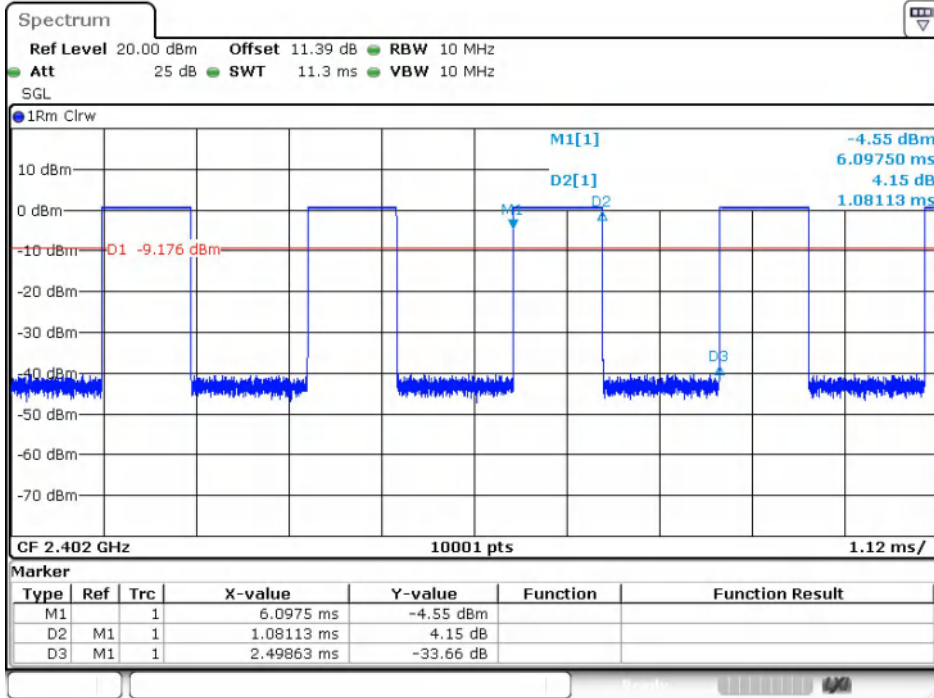
Date: 28.SEP.2024 10:41:45

BLE 1M\_Channel 19



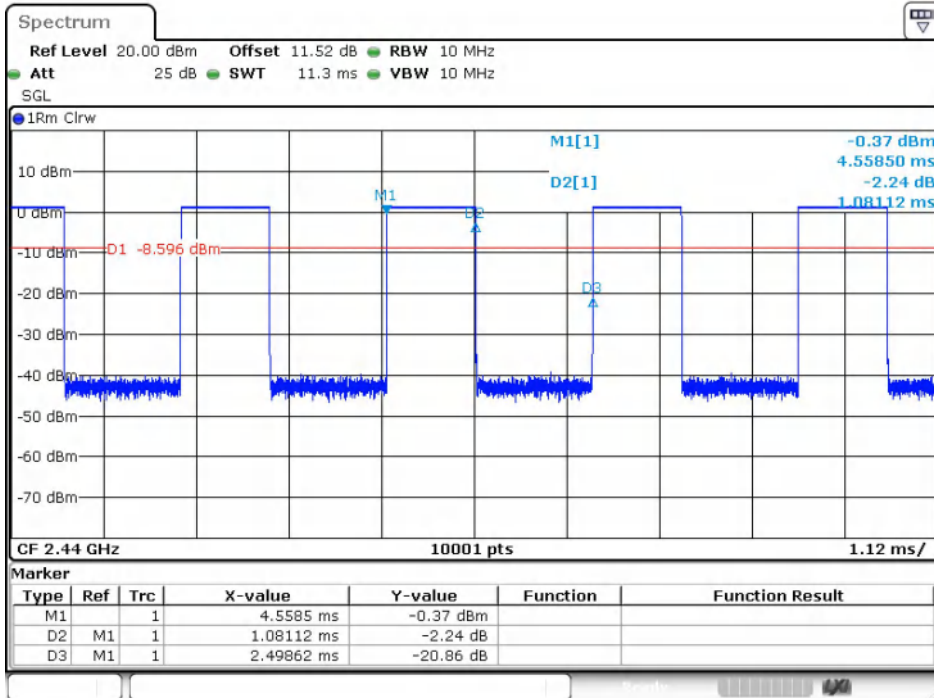
Date: 28.SEP.2024 10:46:33

BLE 1M\_Channel 39



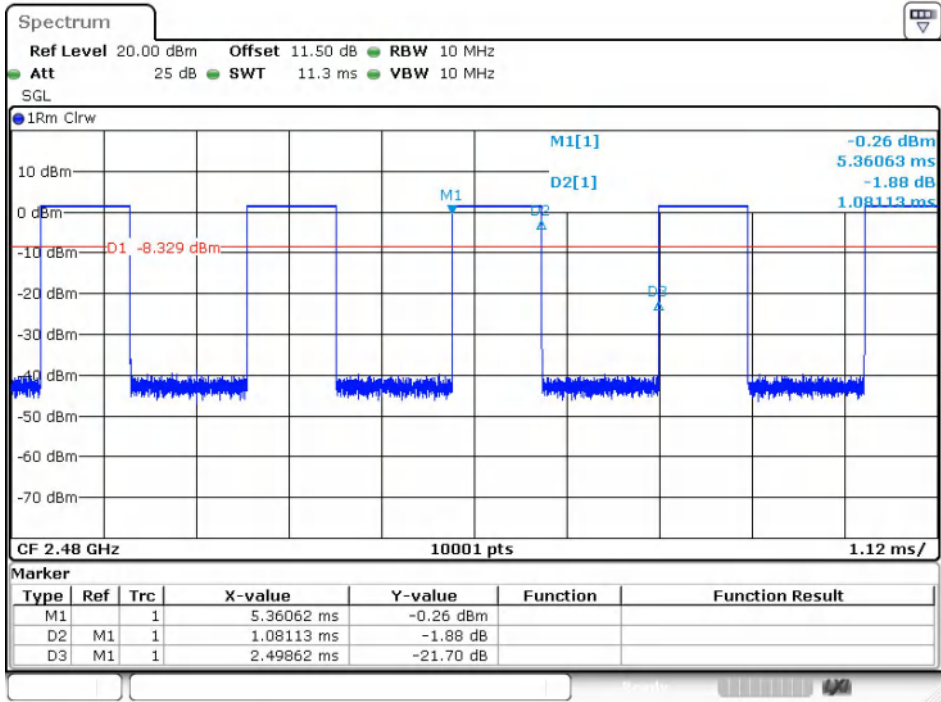
Date: 28.SEP.2024 10:49:51

BLE 2M\_Channel 0



Date: 28.SEP.2024 10:55:06

BLE 2M\_Channel 19



Date: 28.SEP.2024 11:02:58

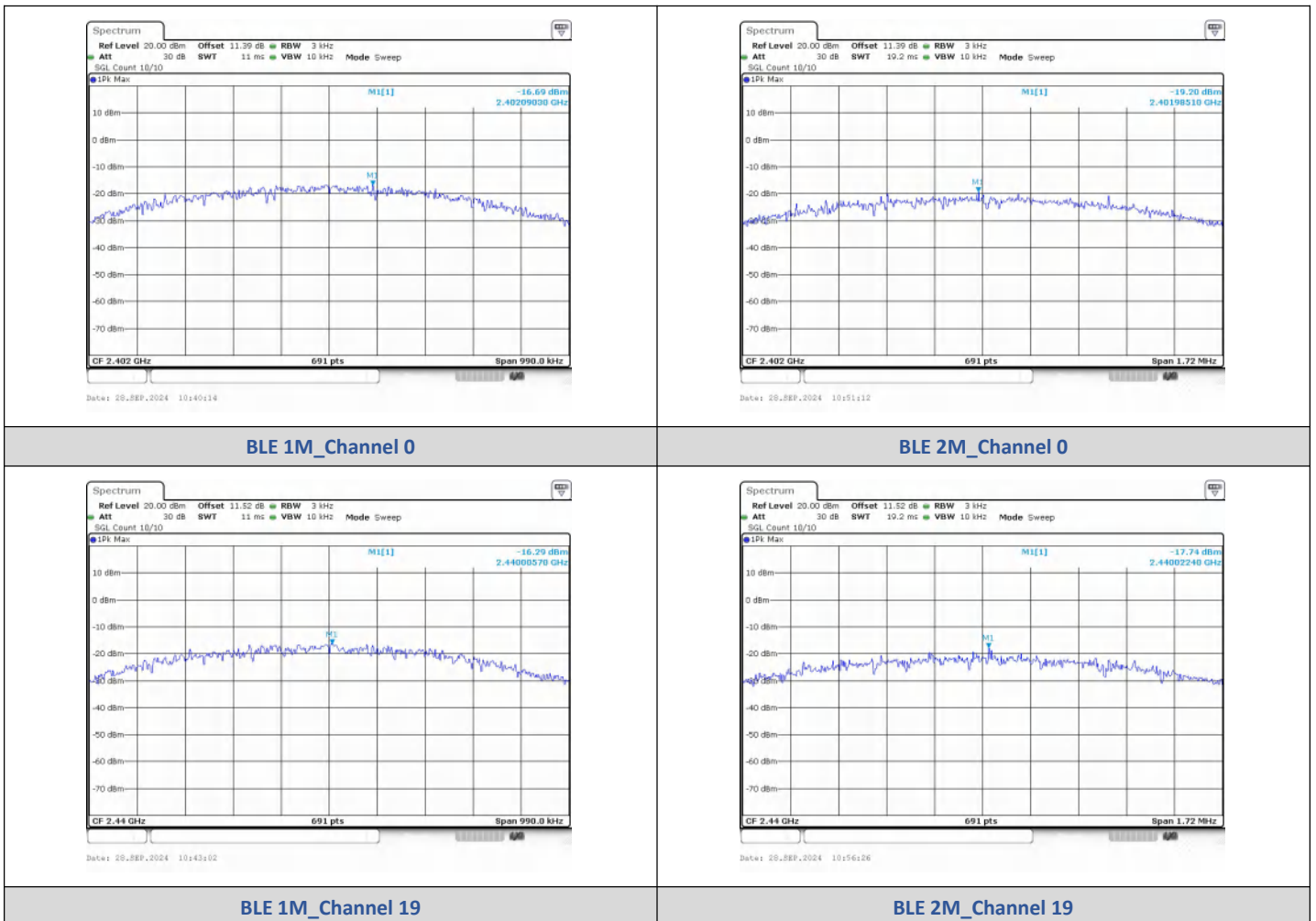
BLE 2M\_Channel 39

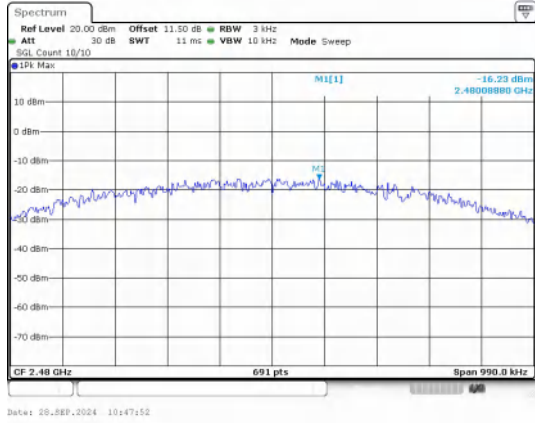
## 6) Power Spectral Density

### Test Result

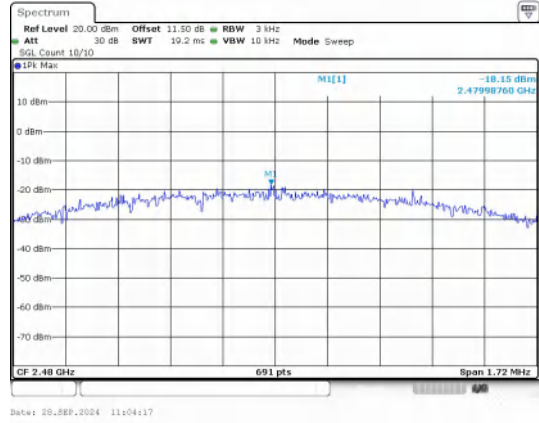
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.69	≤8	PASS
BLE 1M	19	-16.29	≤8	PASS
BLE 1M	39	-16.23	≤8	PASS
BLE 2M	0	-19.20	≤8	PASS
BLE 2M	19	-17.74	≤8	PASS
BLE 2M	39	-18.15	≤8	PASS

### Test Graphs





BLE 1M\_Channel 39



BLE 2M\_Channel 39