Appendix A

Report No.:	CISRR24041811101
FCC ID:	2BFZ8-BMW2412
Product Name:	Wireless Mouse
Model No.:	BMW2412
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Peak Output Power

Test Result

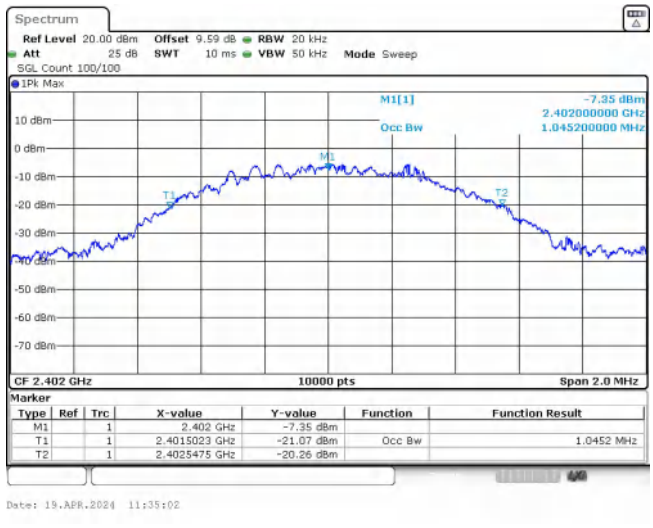
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	LE	0	1.435	1.39	30	PASS
		19	0.848	1.22		PASS
		39	0.927	1.24		PASS
	2LE	0	1.510	1.42	30	PASS
		19	1.002	1.26		PASS
		39	1.050	1.27		PASS

2) 99% Bandwidth

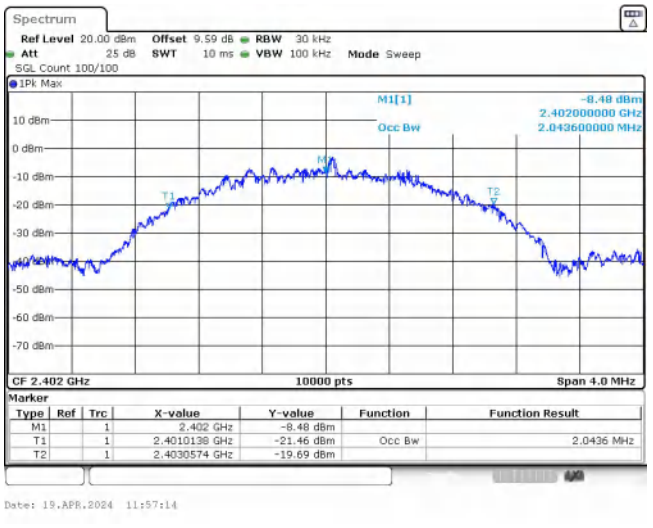
Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0450
LE	19	1.0530
LE	39	1.0480
2LE	0	2.0440
2LE	19	2.0600
2LE	39	2.0520

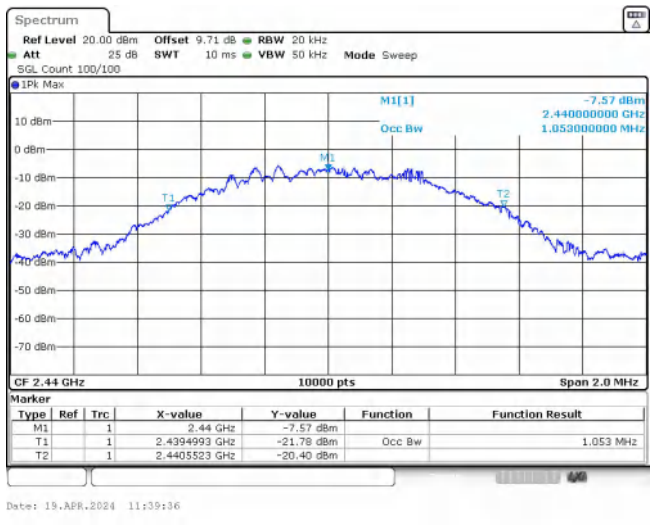
Test Graphs



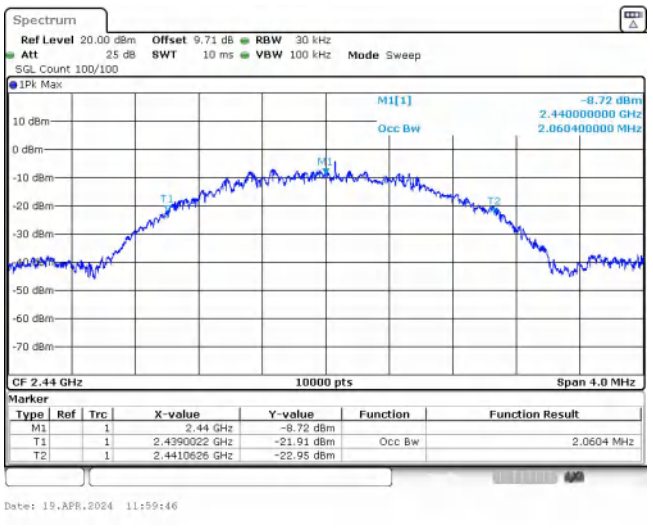
LE_Channel 0



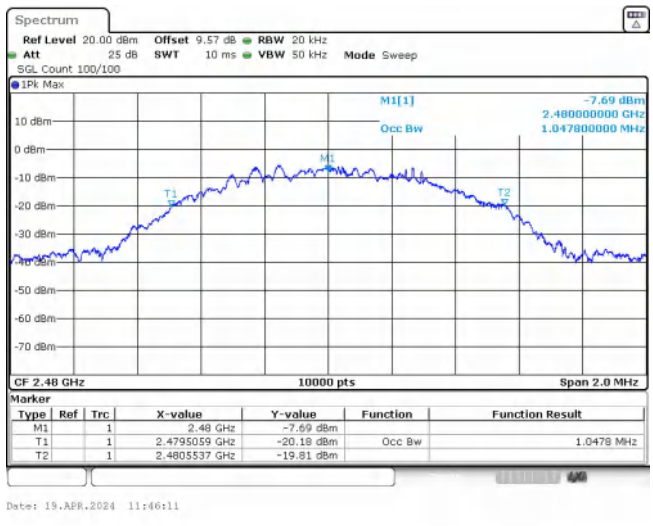
2LE_Channel 0



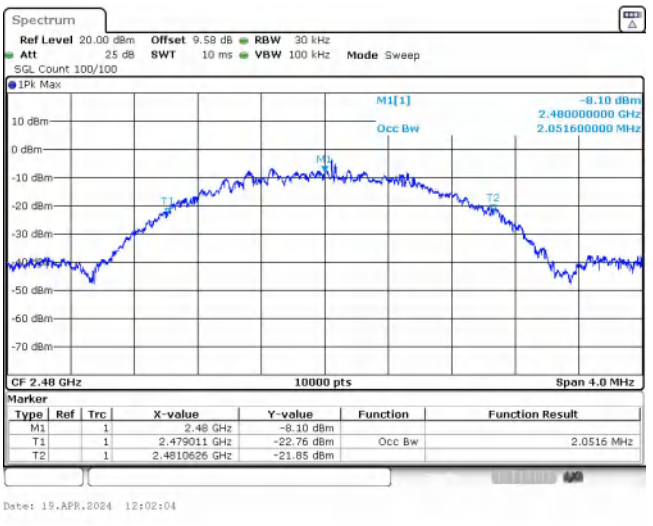
LE_Channel 19



2LE_Channel 19



LE_Channel 39



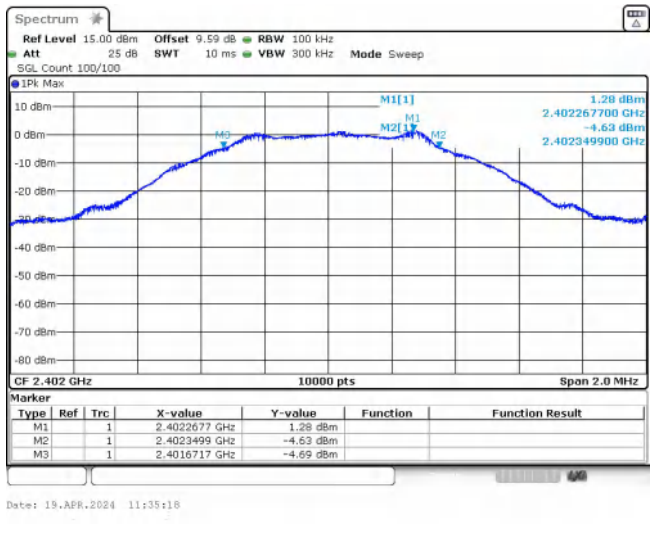
2LE_Channel 39

3) 6dB Bandwidth

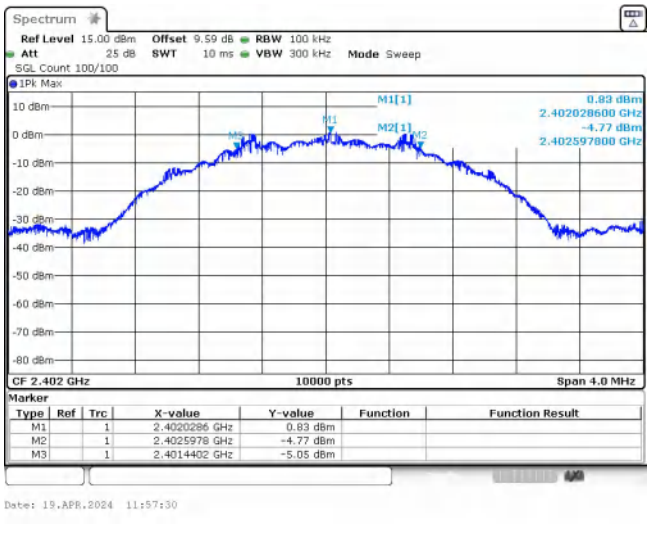
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.6800	0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6700		PASS
2LE	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.140		PASS

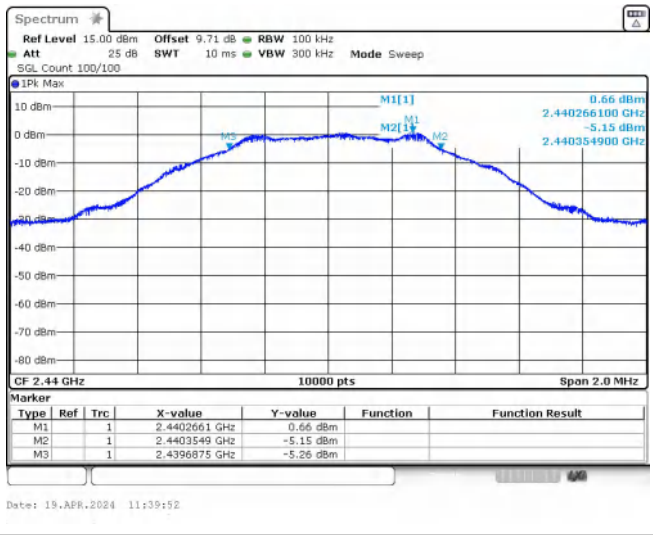
Test Graphs



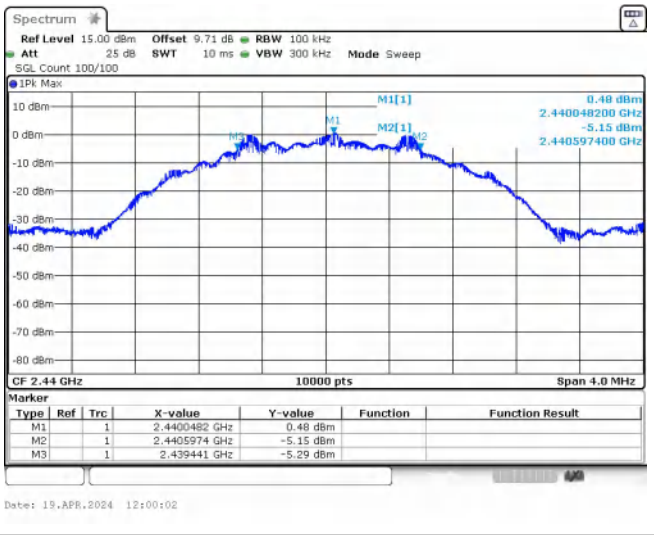
LE_Channel 0



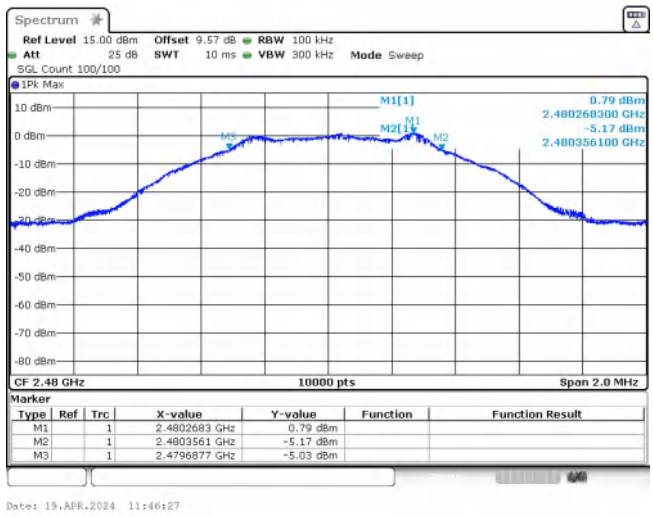
2LE_Channel 0



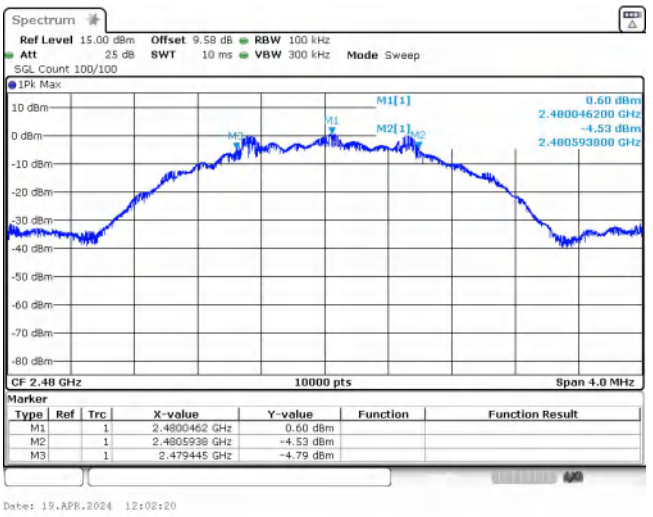
LE_Channel 19



2LE_Channel 19



LE_Channel 39



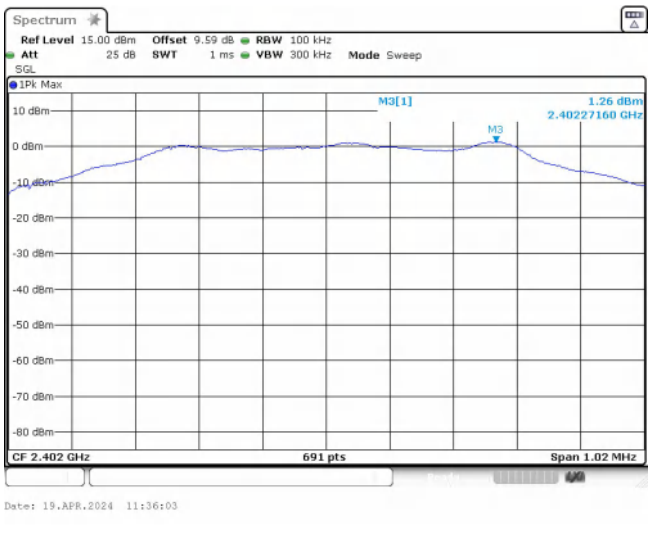
2LE_Channel 39

4) Conducted Out Of Band Emission

Test Result

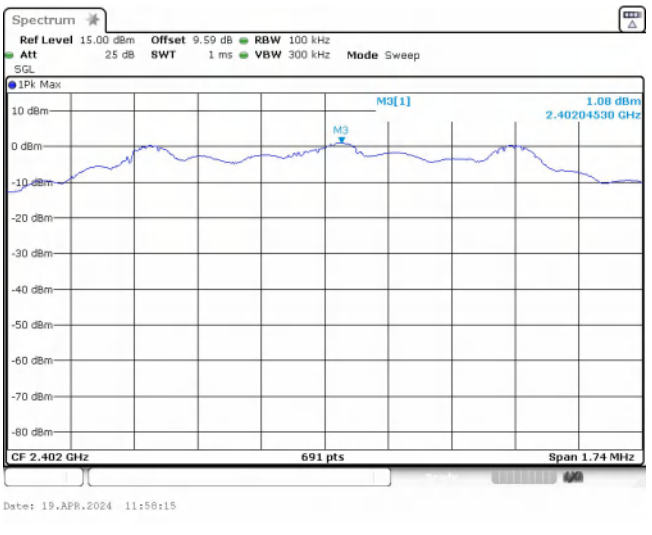
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-46.959	-18.74	-28.219	PASS
		7205.13	-42.271	-18.74	-23.531	PASS
	19	9760.39	-41.347	-19.33	-22.017	PASS
	39	2483.50	-53.349	-19.23	-34.119	PASS
		9920.20	-40.702	-19.23	-21.472	PASS
2LE	0	2400.00	-33.440	-18.92	-14.520	PASS
		7204.30	-39.446	-18.92	-20.526	PASS
	19	9760.39	-41.590	-19.47	-22.120	PASS
	39	2483.50	-53.024	-19.38	-33.644	PASS
		9920.20	-40.697	-19.38	-21.317	PASS

Test Graphs



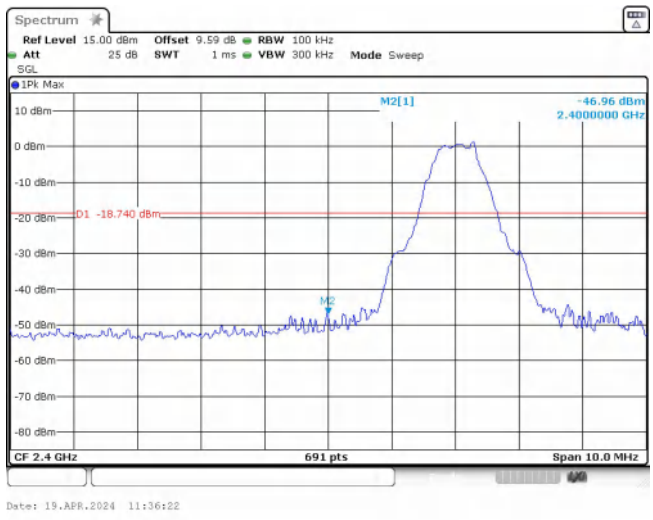
In-Band Reference Level

LE_Channel 0



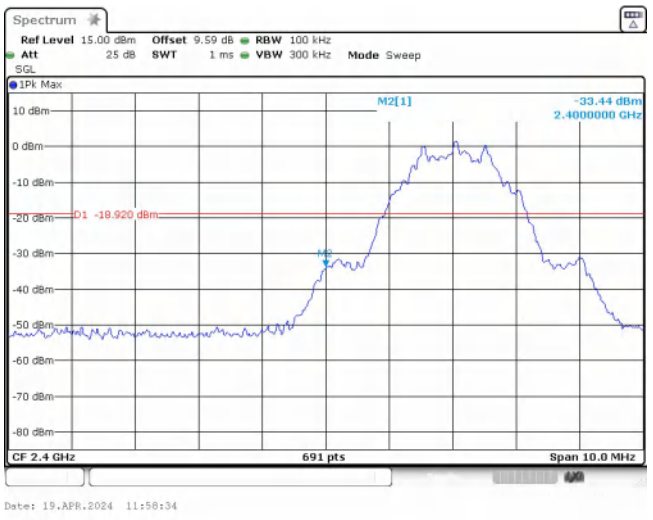
In-Band Reference Level

2LE_Channel 0



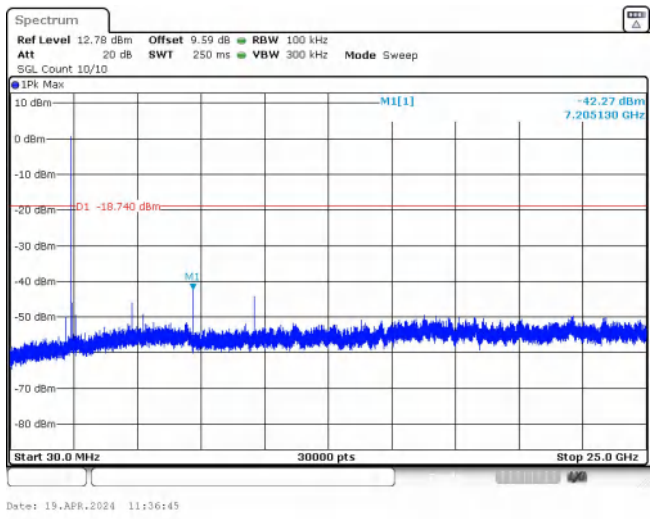
Out Of Band Emission

LE_Channel 0



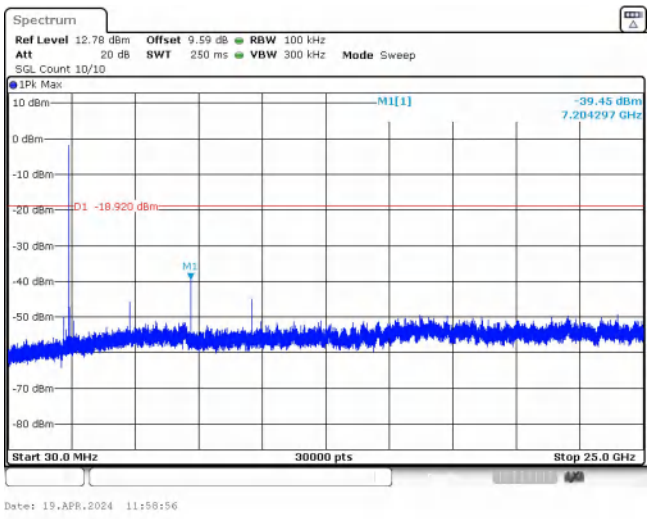
Out Of Band Emission

2LE_Channel 0



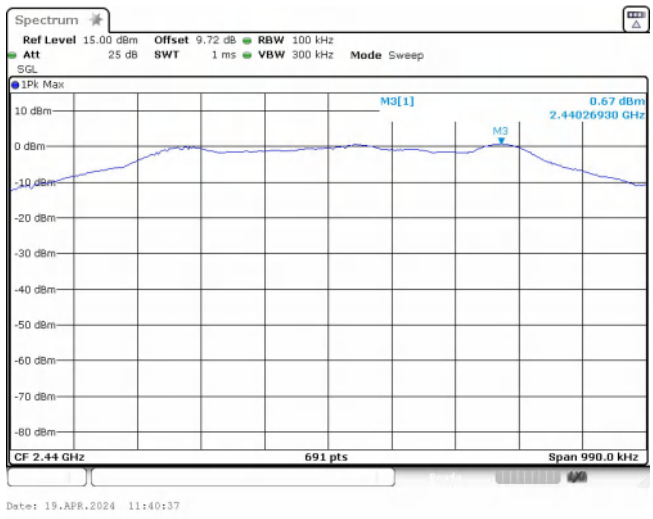
Spurious Emission

LE_Channel 0



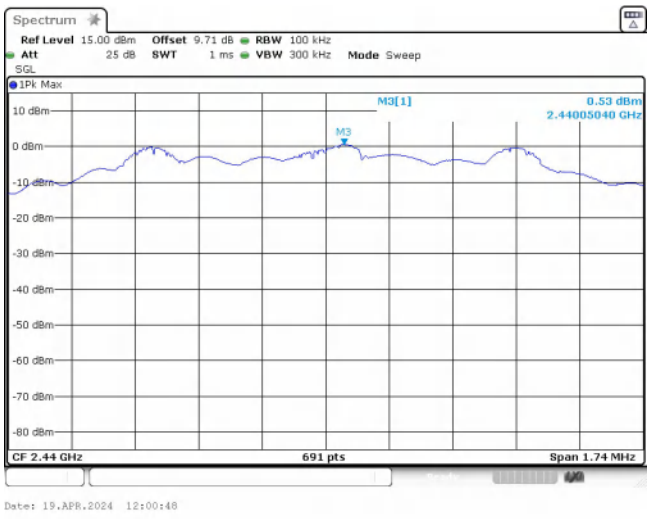
Spurious Emission

2LE_Channel 0



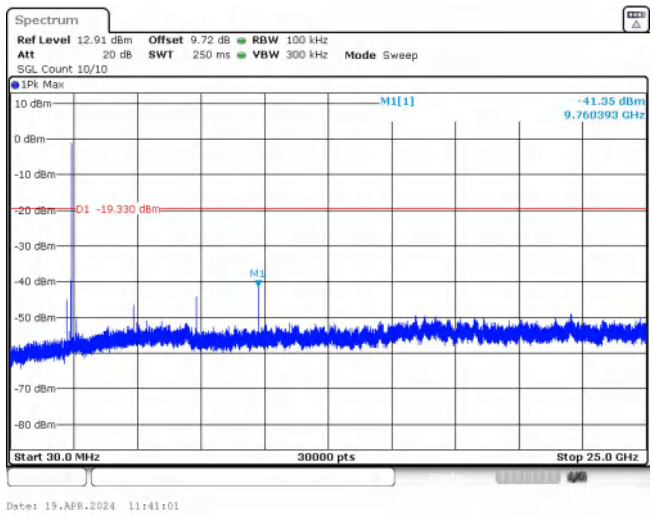
In-Band Reference Level

LE_Channel 19



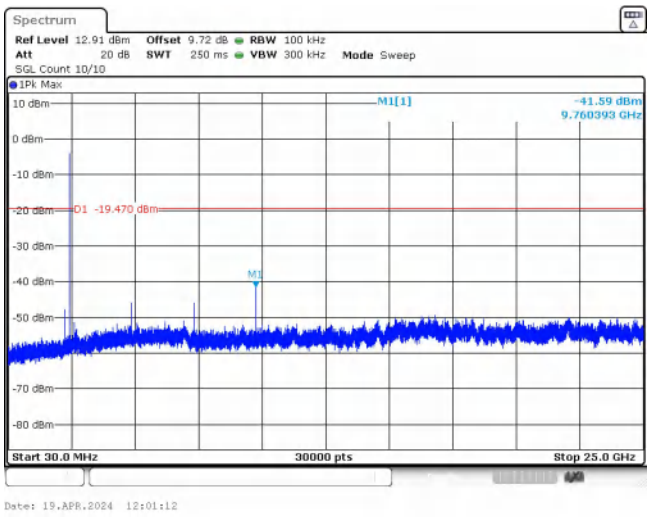
In-Band Reference Level

2LE_Channel 19



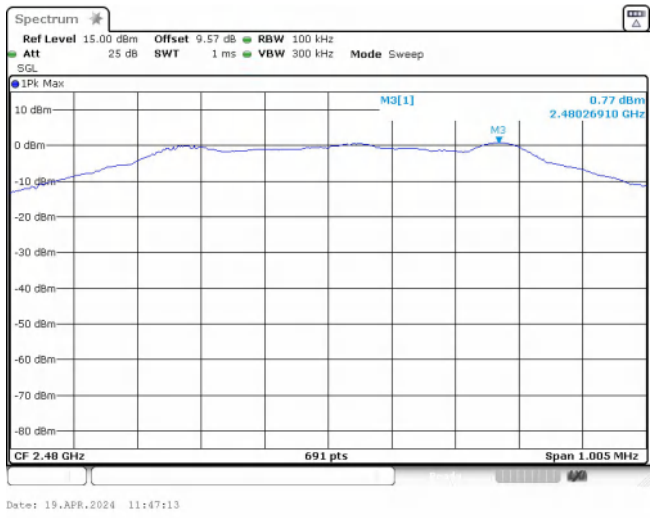
Spurious Emissions

LE_Channel 19



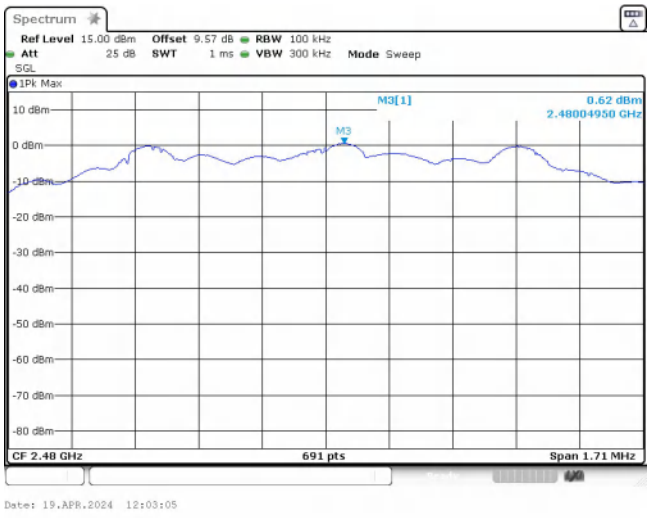
Spurious Emissions

2LE_Channel 19



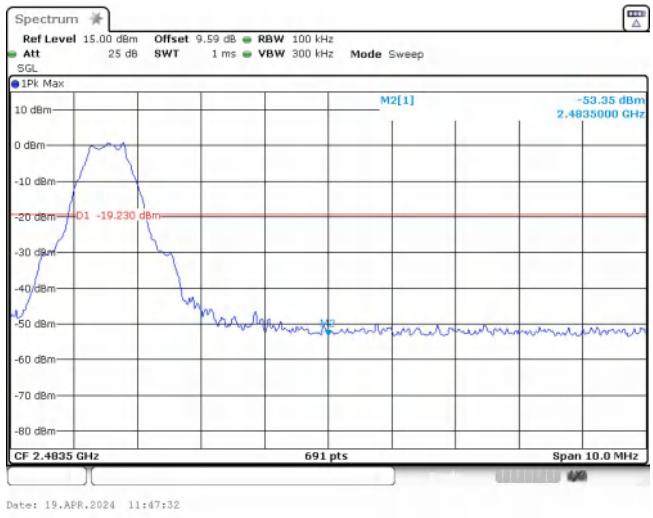
In-Band Reference Level

LE_Channel 39



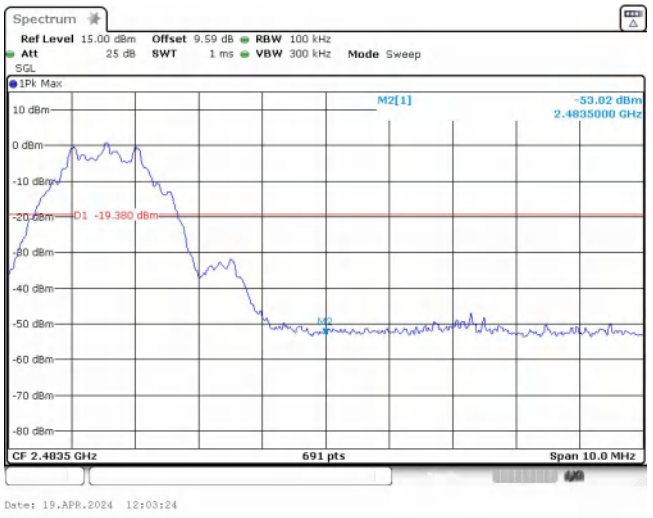
In-Band Reference Level

2LE_Channel 39



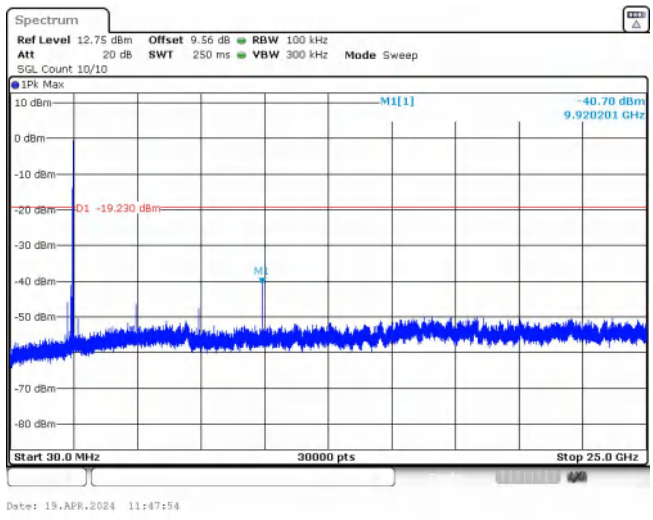
Out Of Band Emission

LE_Channel 39



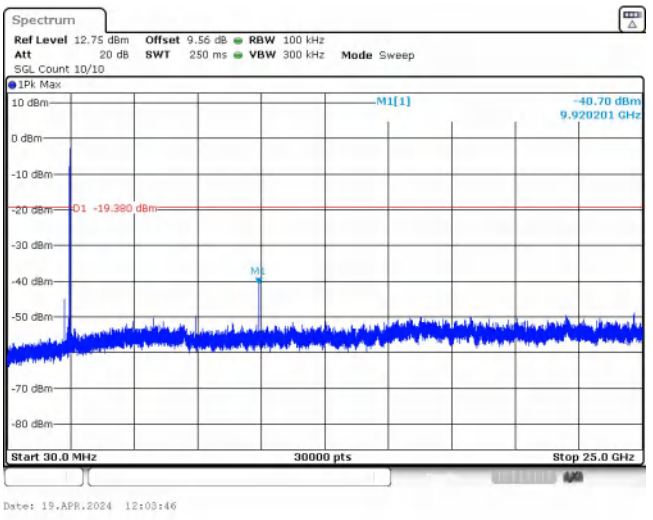
Out Of Band Emission

2LE_Channel 39



Spurious Emission

LE_Channel 39



Spurious Emission

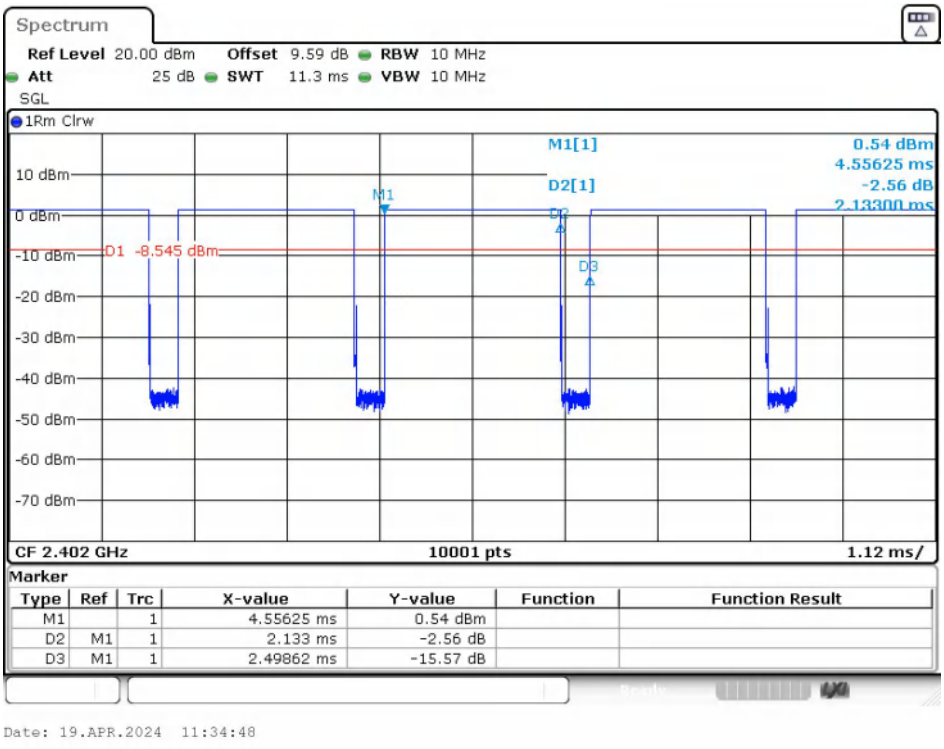
2LE_Channel 39

5) Duty Cycle

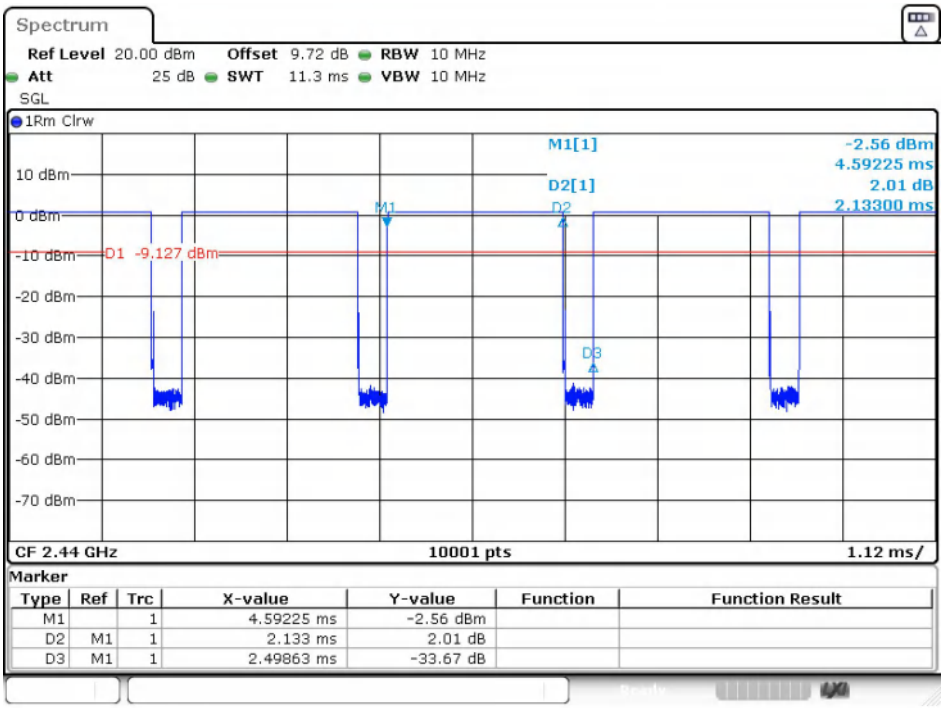
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
LE	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	2.133	2.499	85.37	0.8537	0.6869	0.47
2LE	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

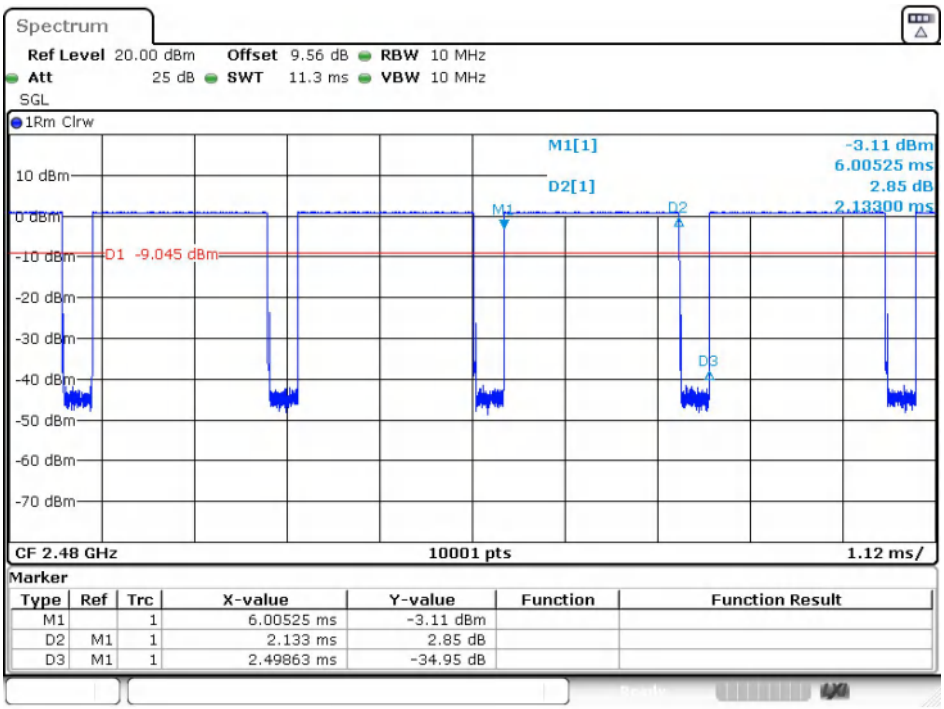
Test Graphs



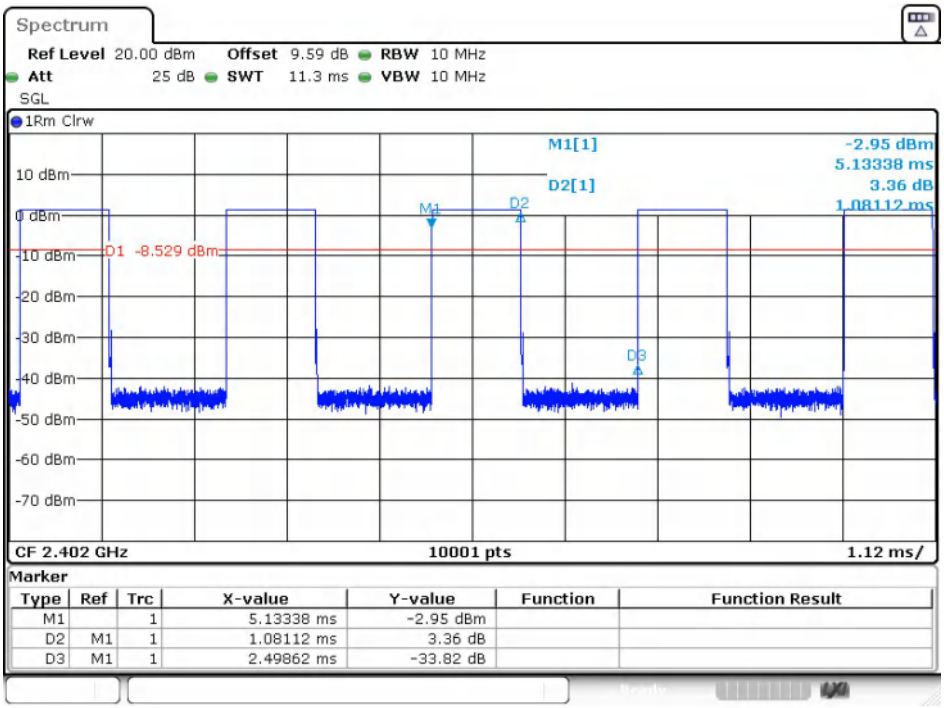
LE


Spectrum
Ref Level 20.00 dBm Offset 9.72 dB RBW 10 MHz
Att 25 dB SWT 11.3 ms VBW 10 MHz
SGL
1Rm Clrw
M1[1] -2.56 dBm
4.59225 ms
D2[1] 2.01 dB
2.13300 ms
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
D1 -9.127 dBm
M1
D2
D3
CF 2.44 GHz
10001 pts
1.12 ms/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 4.59225 ms -2.56 dBm
D2 M1 1 2.133 ms 2.01 dB
D3 M1 1 2.49863 ms -33.67 dB
Date: 19.APR.2024 11:39:21

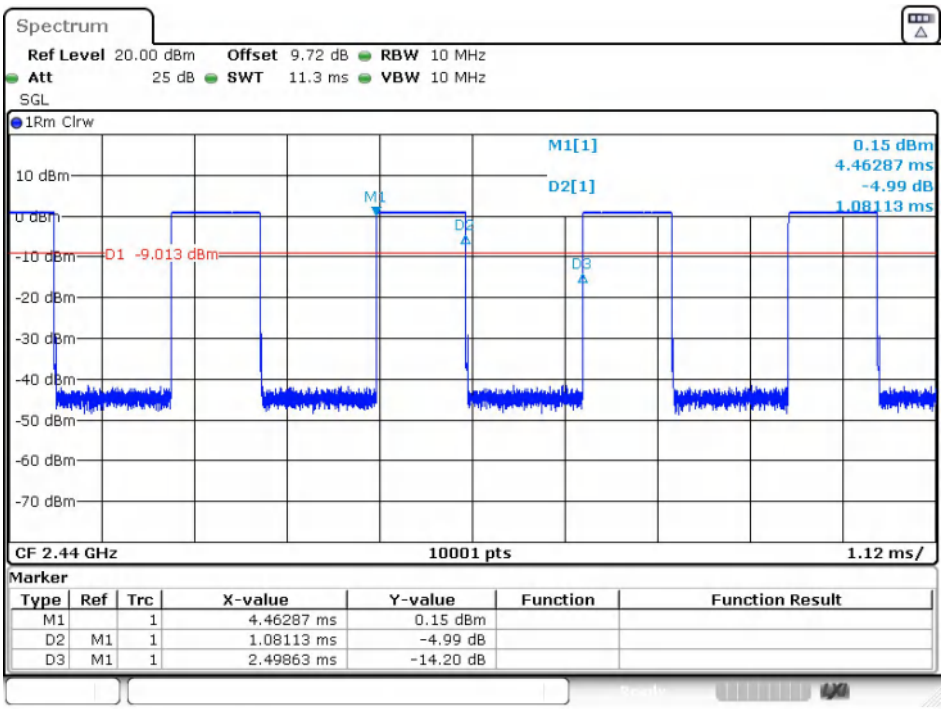
LE


Spectrum
Ref Level 20.00 dBm Offset 9.56 dB RBW 10 MHz
Att 25 dB SWT 11.3 ms VBW 10 MHz
SGL
1Rm Clrw
M1[1] -3.11 dBm
6.00525 ms
D2[1] 2.85 dB
2.13300 ms
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
D1 -9.045 dBm
M1
D2
D3
CF 2.48 GHz
10001 pts
1.12 ms/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 6.00525 ms -3.11 dBm
D2 M1 1 2.133 ms 2.85 dB
D3 M1 1 2.49863 ms -34.95 dB
Date: 19.APR.2024 11:45:57

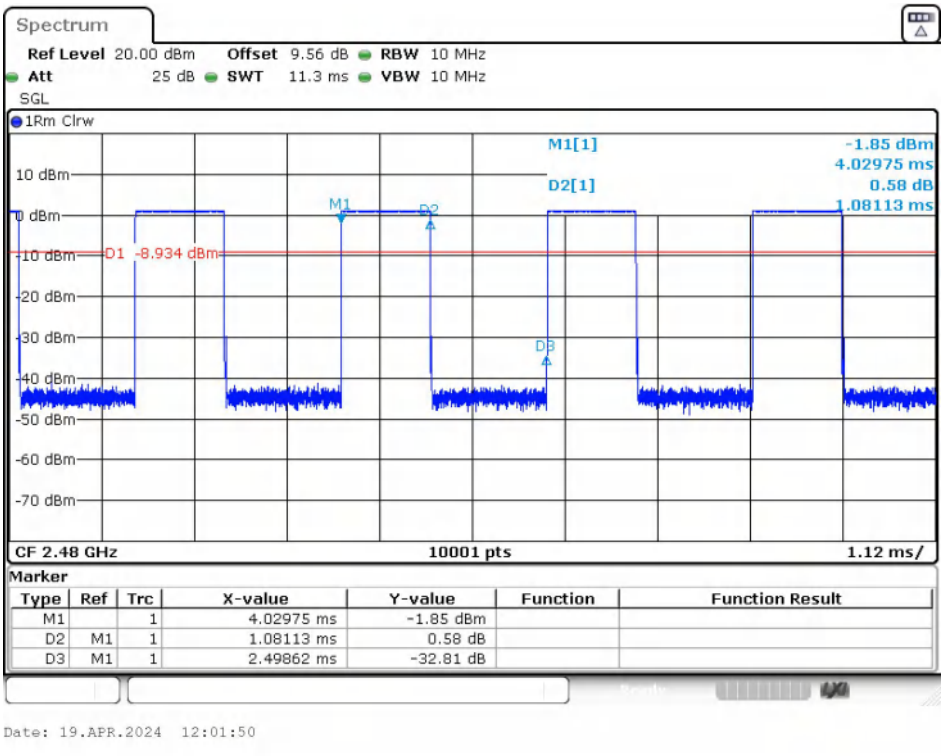
LE


Spectrum
Ref Level 20.00 dBm Offset 9.59 dB RBW 10 MHz
Att 25 dB SWT 11.3 ms VBW 10 MHz
SGL
1Rm Clrw
M1[1] -2.95 dBm
5.13338 ms
D2[1] 3.36 dB
1.08112 ms
D1 -8.529 dBm
CF 2.402 GHz
10001 pts
1.12 ms/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.13338 ms -2.95 dBm
D2 M1 1 1.08112 ms 3.36 dB
D3 M1 1 2.49862 ms -33.82 dB
Date: 19.APR.2024 11:57:00

2LE


Spectrum
Ref Level 20.00 dBm Offset 9.72 dB RBW 10 MHz
Att 25 dB SWT 11.3 ms VBW 10 MHz
SGL
1Rm Clrw
M1[1] 0.15 dBm
4.46287 ms
D2[1] -4.99 dB
1.08113 ms
D1 -9.013 dBm
CF 2.44 GHz
10001 pts
1.12 ms/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 4.46287 ms 0.15 dBm
D2 M1 1 1.08113 ms -4.99 dB
D3 M1 1 2.49863 ms -14.20 dB
Date: 19.APR.2024 11:59:32

2LE


Spectrum
Ref Level 20.00 dBm Offset 9.56 dB RBW 10 MHz
Att 25 dB SWT 11.3 ms VBW 10 MHz
SGL
1Rm Clrw
M1[1] -1.85 dBm
4.02975 ms
D2[1] 0.58 dB
1.08113 ms
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
D1 -8.934 dBm
M1
D2
D3
CF 2.48 GHz
10001 pts
1.12 ms/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 4.02975 ms -1.85 dBm
D2 M1 1 1.08113 ms 0.58 dB
D3 M1 1 2.49862 ms -32.81 dB
Date: 19.APR.2024 12:01:50

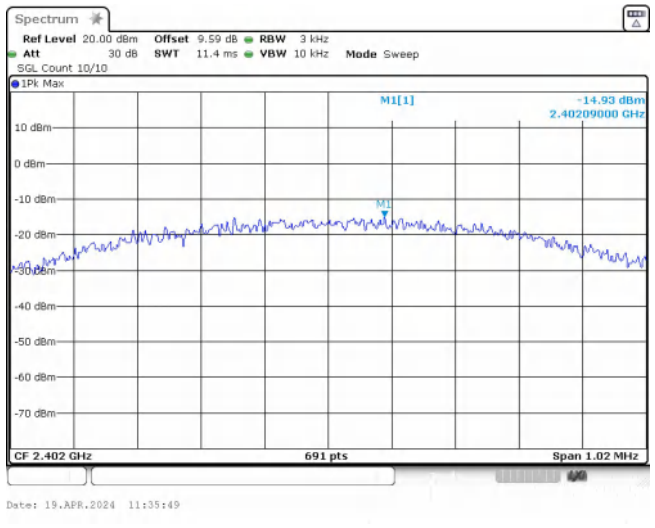
2LE

6) Power Spectral Density

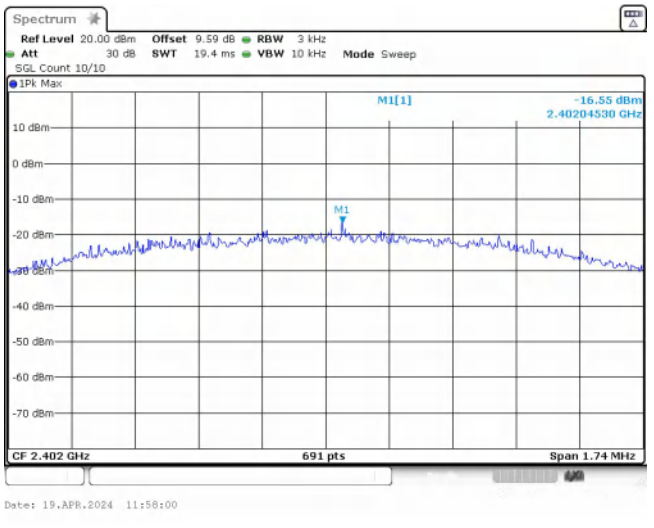
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-14.935	8	PASS
LE	19	-15.576	8	PASS
LE	39	-15.515	8	PASS
2LE	0	-16.553	8	PASS
2LE	19	-17.742	8	PASS
2LE	39	-18.417	8	PASS

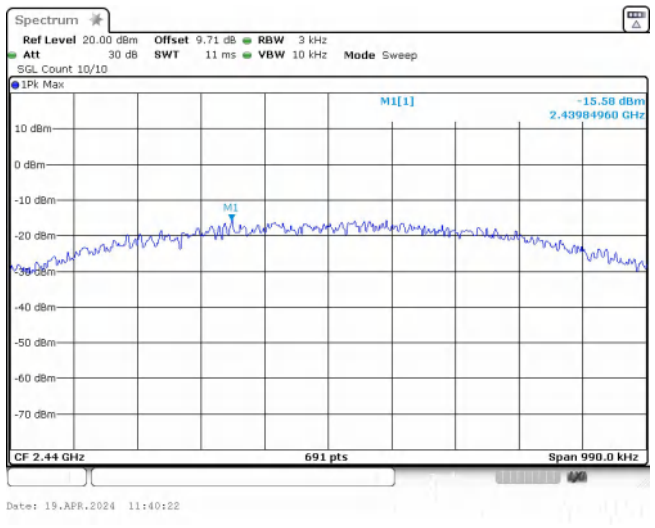
Test Graphs



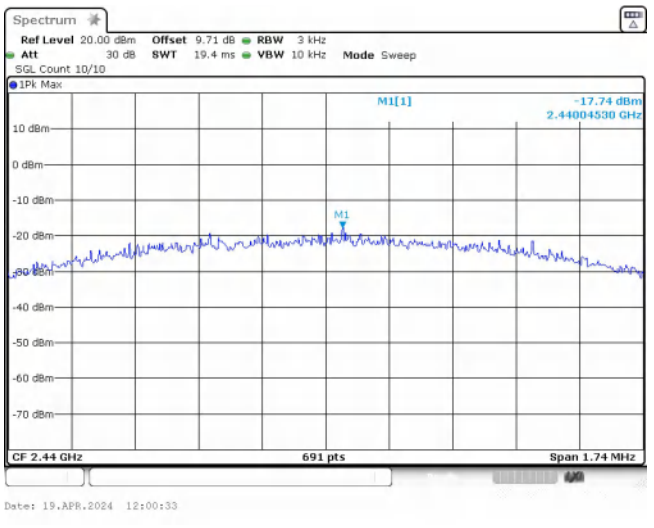
LE_Channel 0



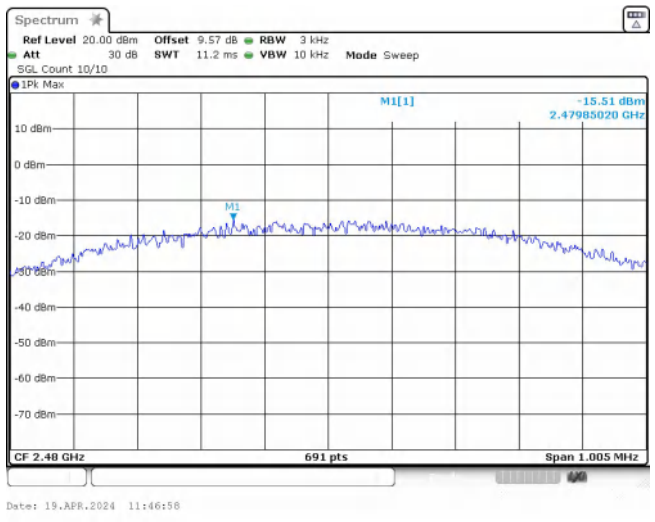
2LE_Channel 0



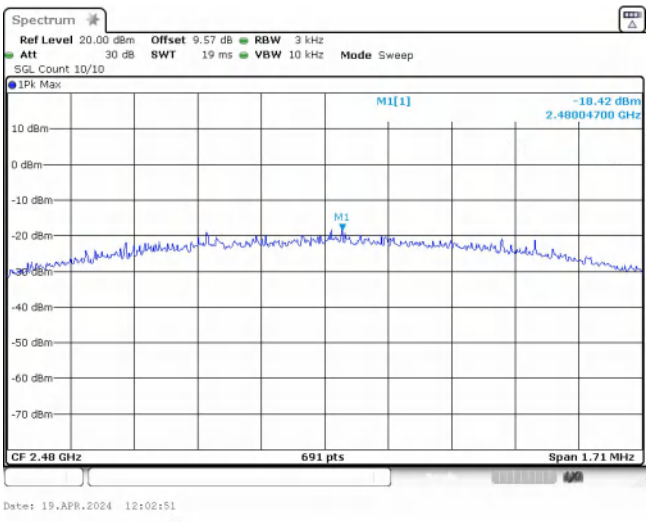
LE_Channel 19



2LE_Channel 19



LE_Channel 39



2LE_Channel 39