

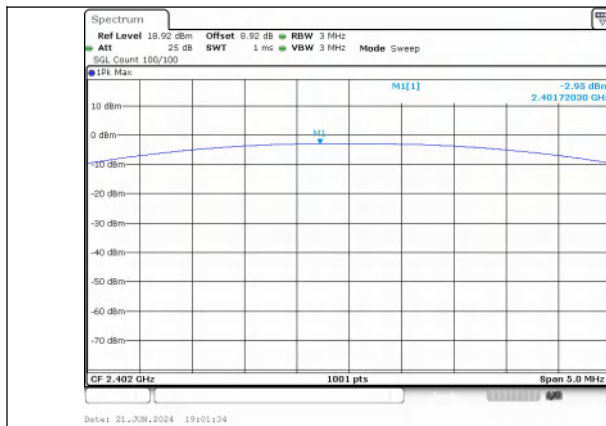
Appendix A

Report No.:	CISRR24060707102
FCC ID:	2BF28-KS05
Product Name:	KS05 lavalier microphone
Model No.:	KS05
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

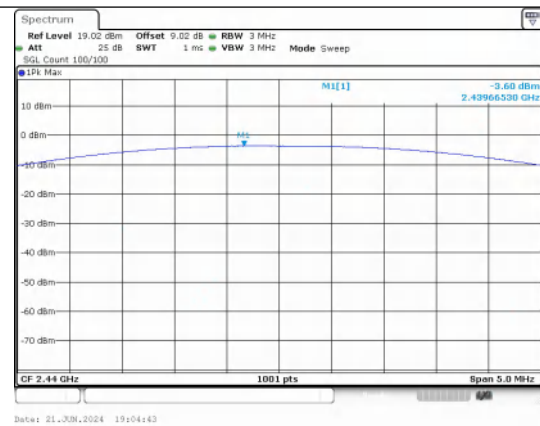
1) Conducted Peak Output Power

Test Result Left

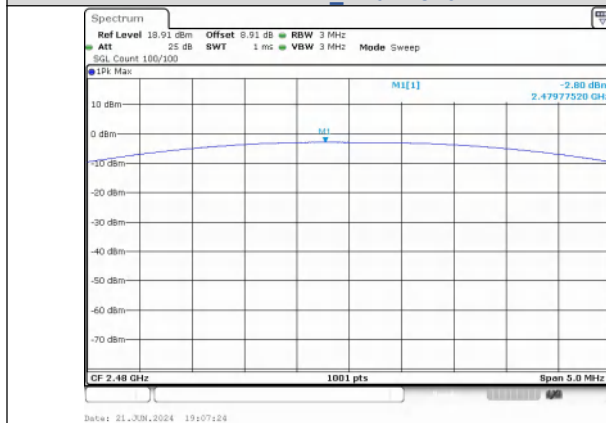
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	-2.95	0.51	30	PASS
	19	-3.60	0.44	30	PASS
	39	-2.80	0.52	30	PASS
2LE	0	-2.77	0.53	30	PASS
	19	-3.57	0.44	30	PASS
	39	-2.70	0.54	30	PASS



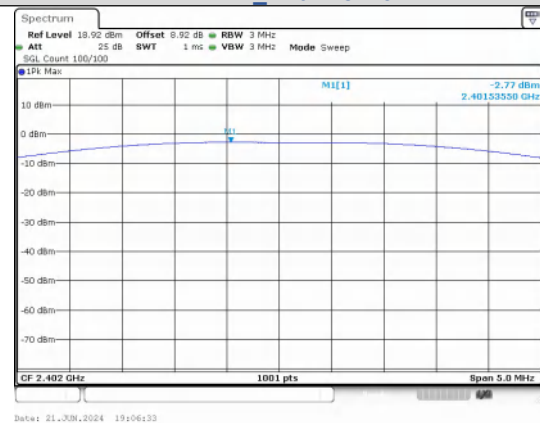
**Peak Output Power
BLE 1M_Channel 0**



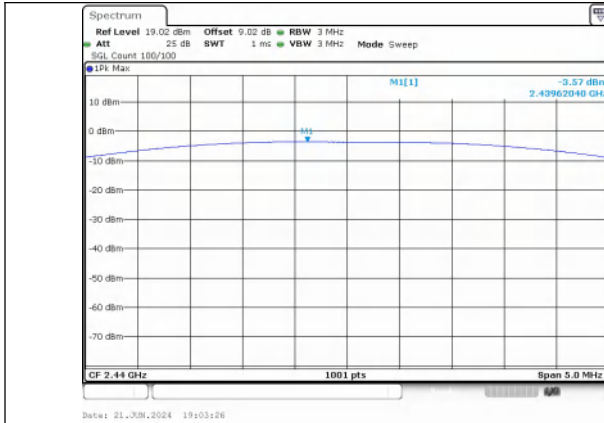
**Peak Output Power
BLE 1M_Channel 19**



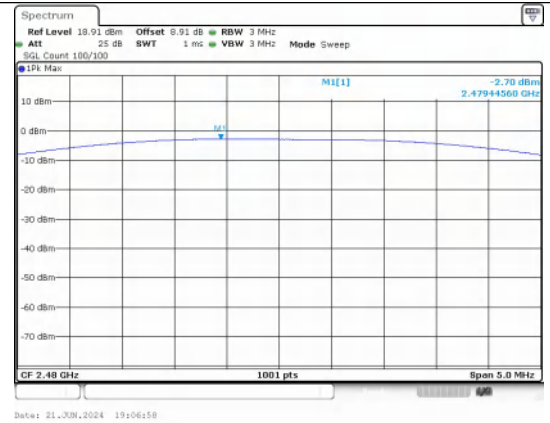
**Peak Output Power
BLE 1M_Channel 39**



**Peak Output Power
BLE 2M_Channel 0**



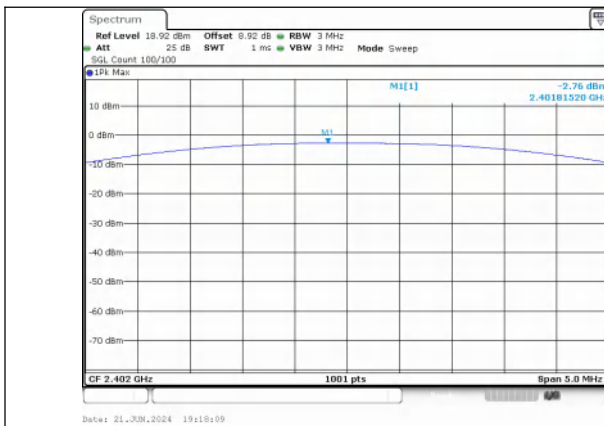
**Peak Output Power
BLE 2M_Channel 19**



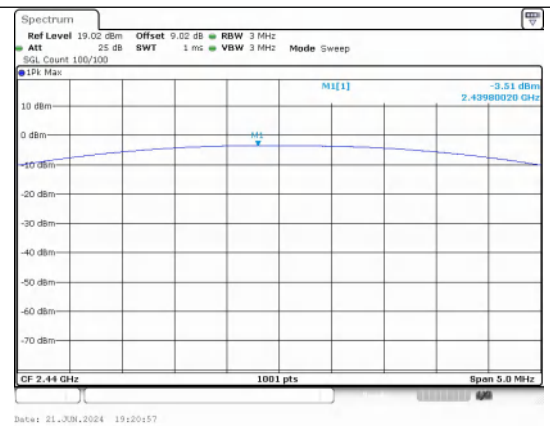
**Peak Output Power
BLE 2M_Channel 39**

Right

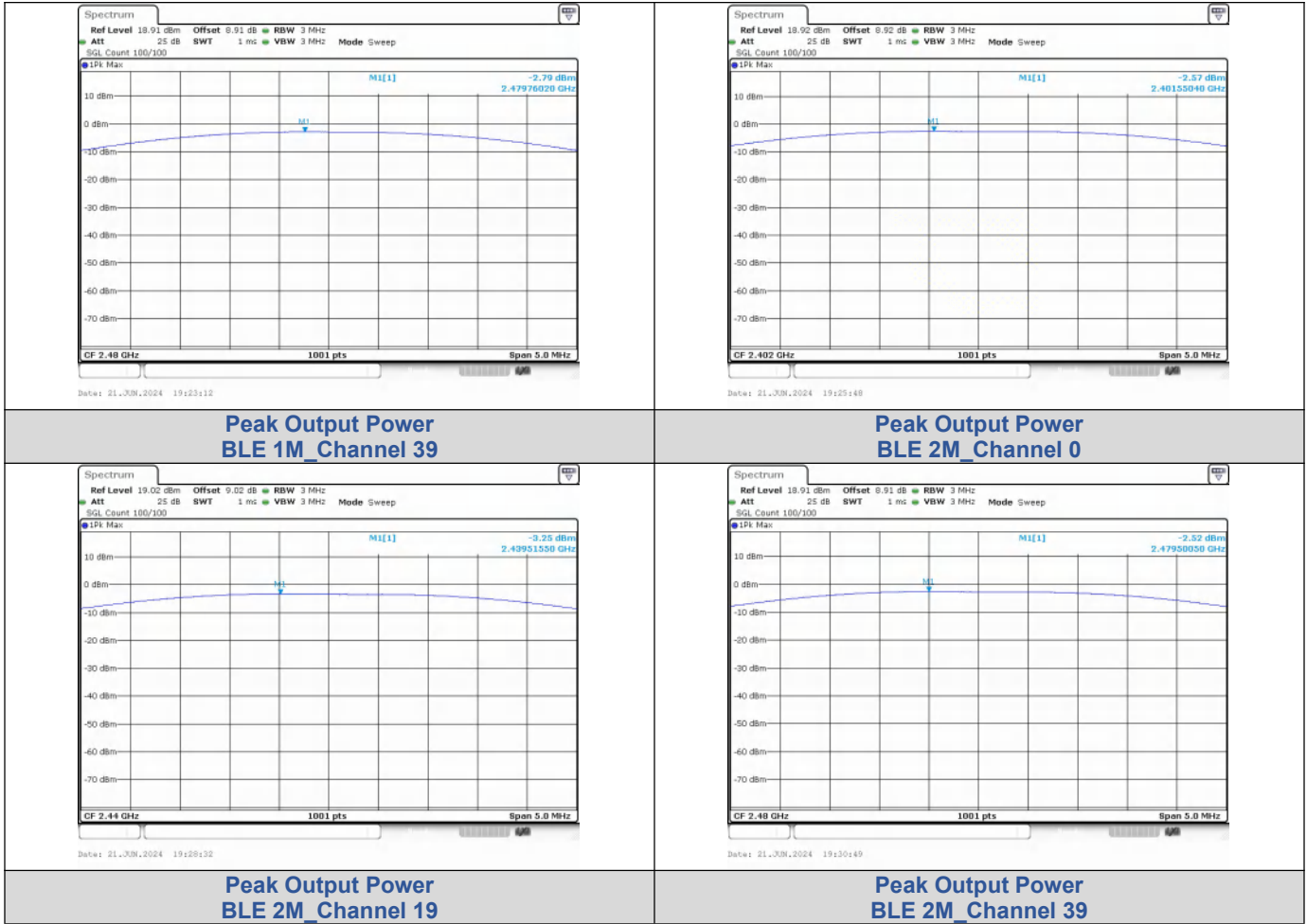
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	-2.76	0.53	30	PASS
	19	-3.51	0.45	30	PASS
	39	-2.79	0.53	30	PASS
2LE	0	-2.57	0.55	30	PASS
	19	-3.25	0.47	30	PASS
	39	-2.52	0.56	30	PASS



**Peak Output Power
BLE 1M_Channel 0**



**Peak Output Power
BLE 1M_Channel 19**



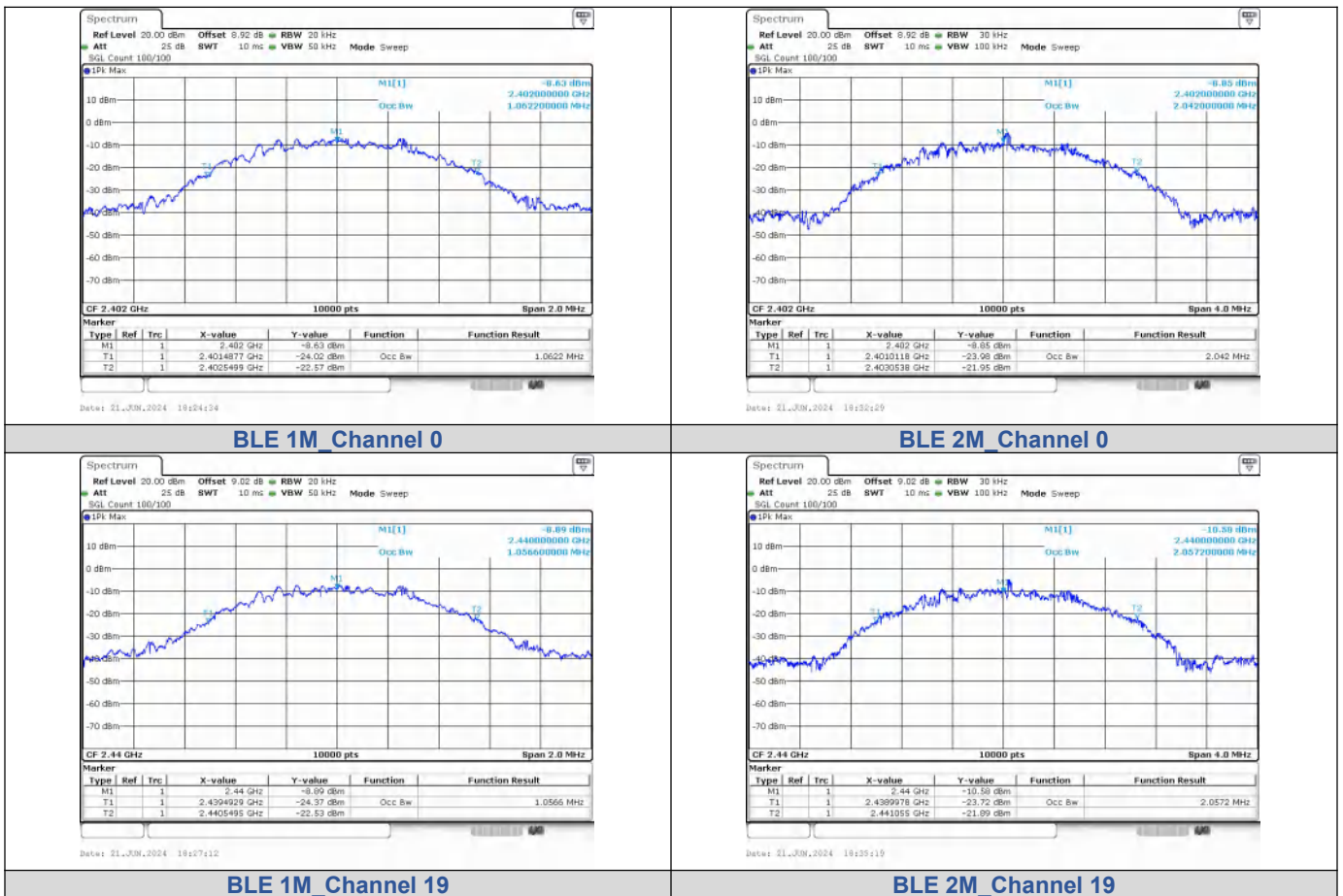
99% Bandwidth

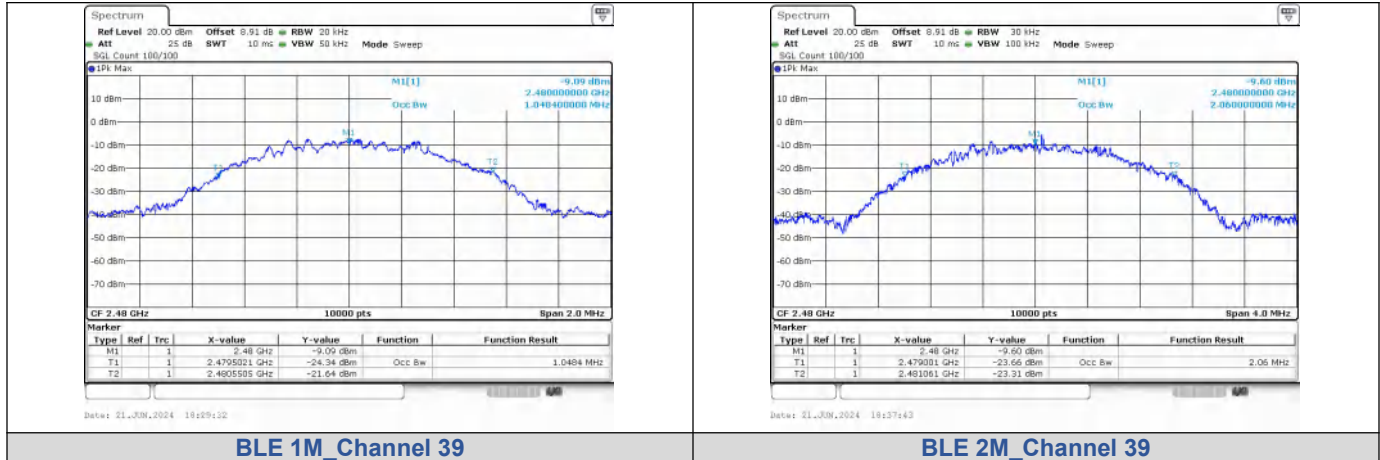
Test Result

Left

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0620
BLE 1M	19	2440	1.0566
BLE 1M	39	2480	1.0484
BLE 2M	0	2402	2.0420
BLE 2M	19	2440	2.0572
BLE 2M	39	2480	2.0600

Test Graphs

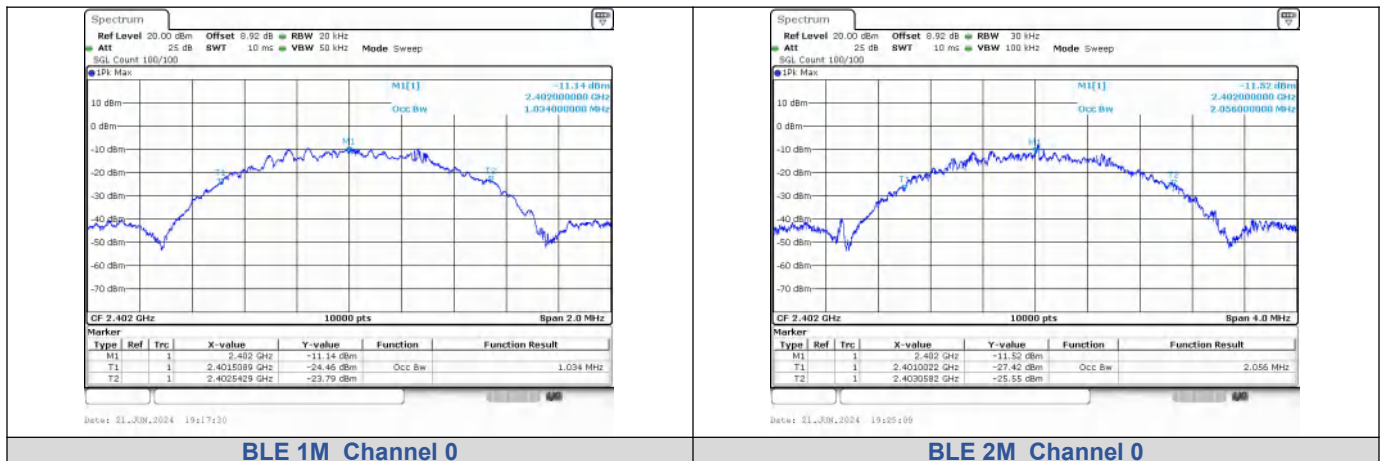


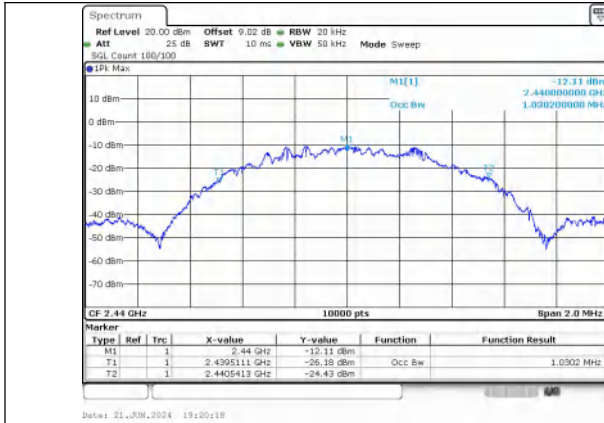


Right

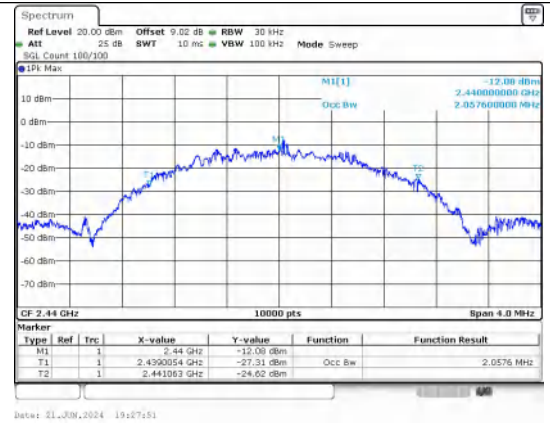
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0340
BLE 1M	19	2440	1.0302
BLE 1M	39	2480	1.0356
BLE 2M	0	2402	2.0560
BLE 2M	19	2440	2.0576
BLE 2M	39	2480	2.0492

Test Graphs

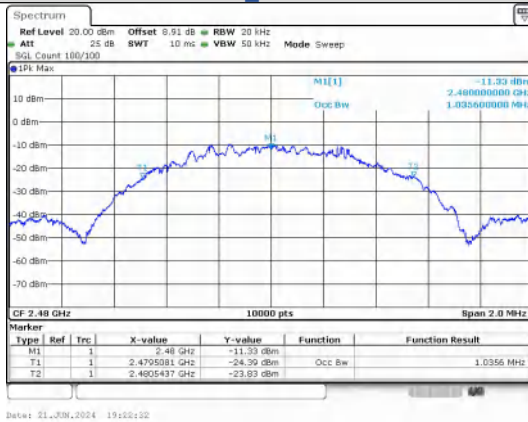




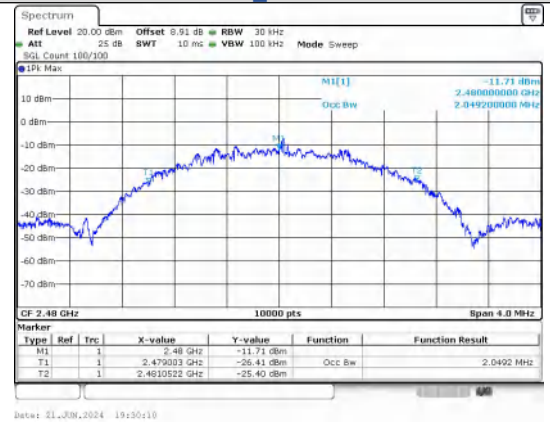
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

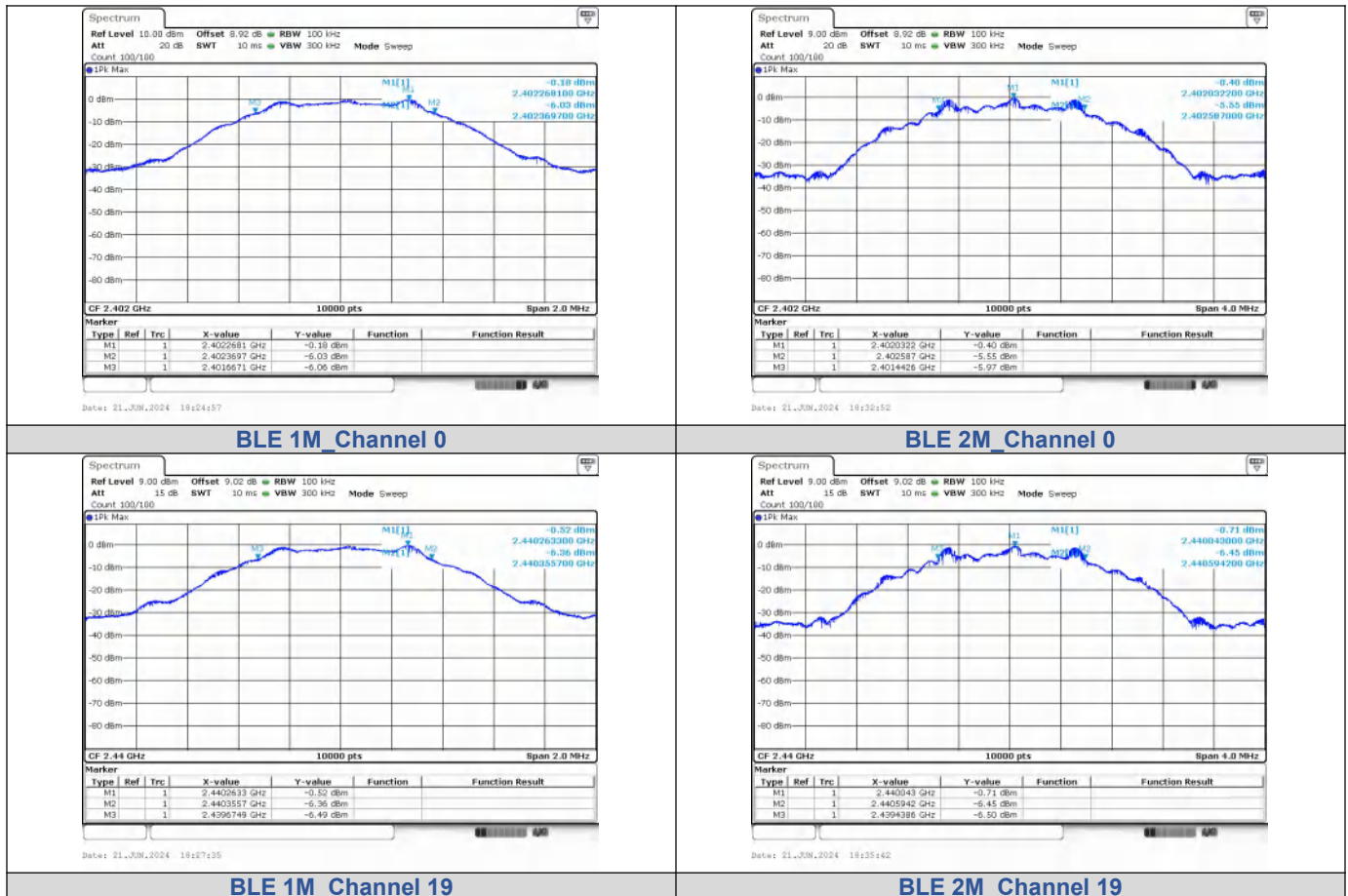
6dB Bandwidth

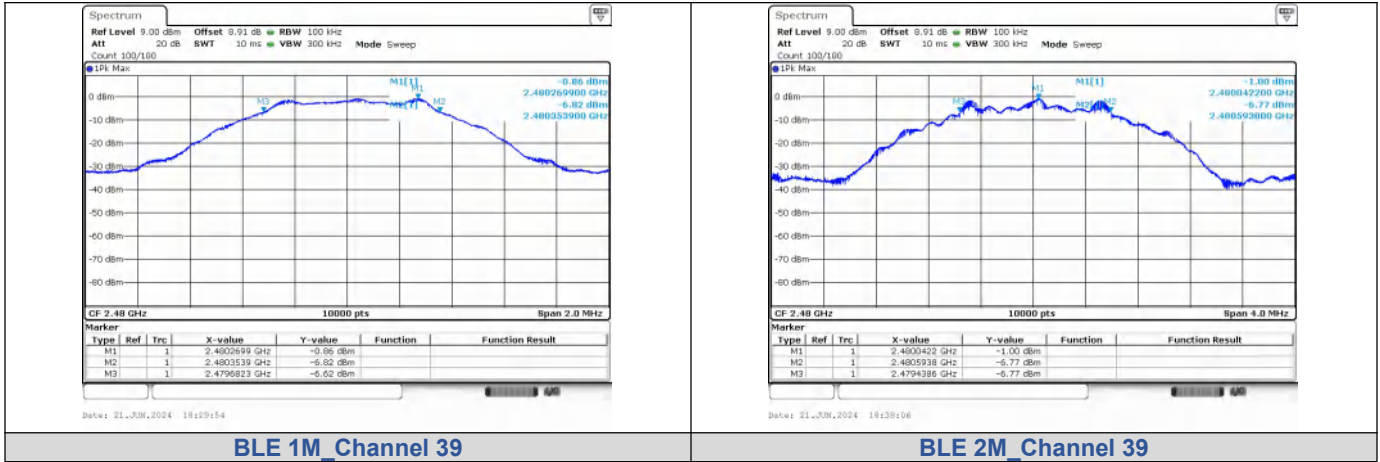
Test Result

Left

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7000	≥0.5	PASS
	19	2440	0.6900		PASS
	39	2480	0.6700		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

Test Graphs

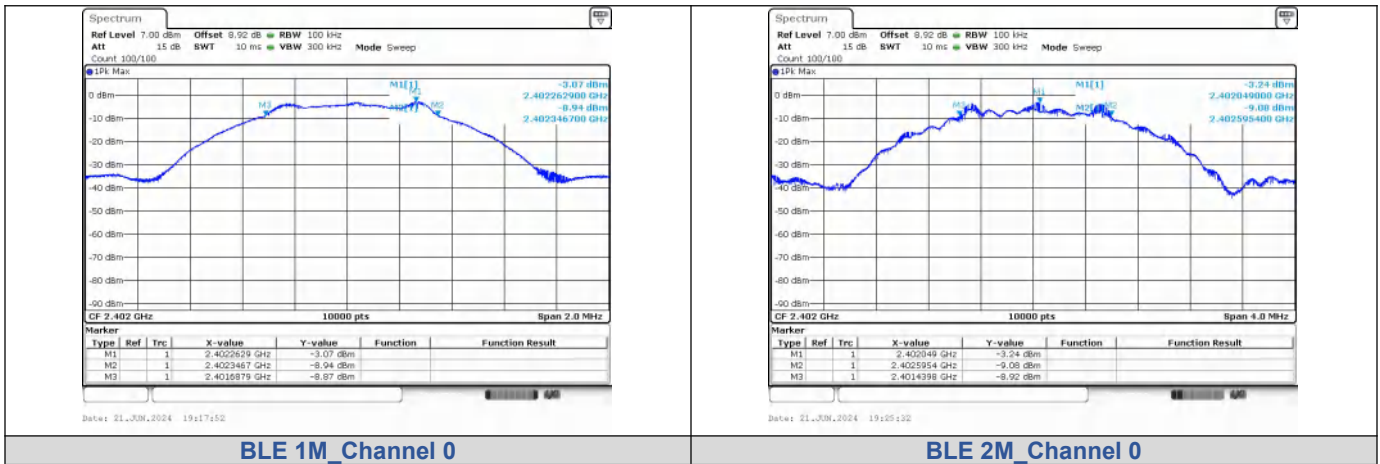


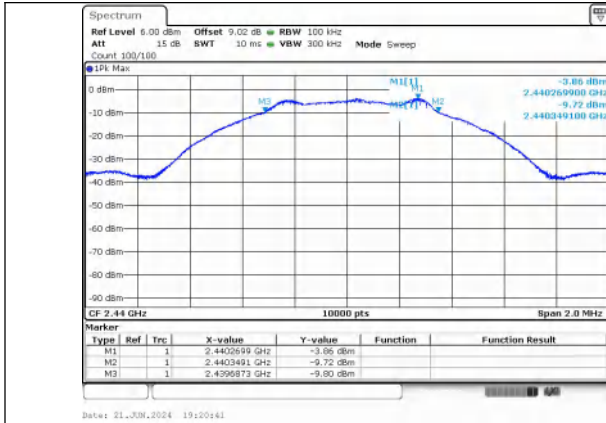


Right

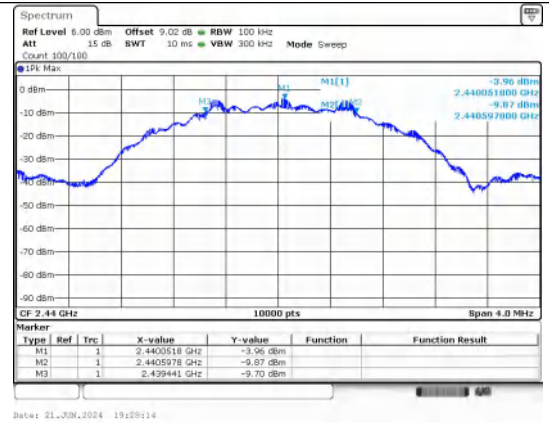
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.150		PASS

Test Graphs

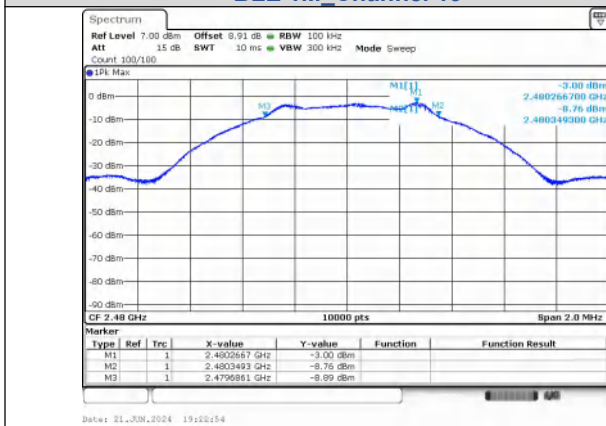




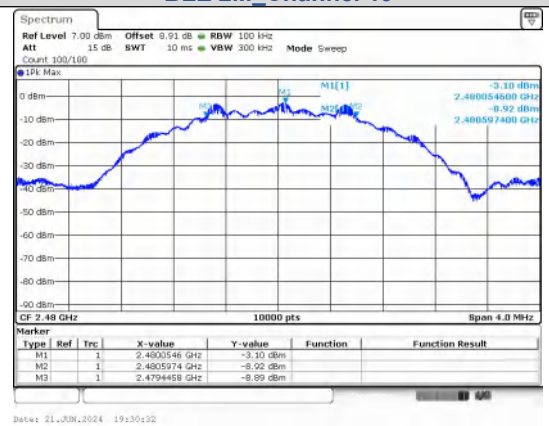
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

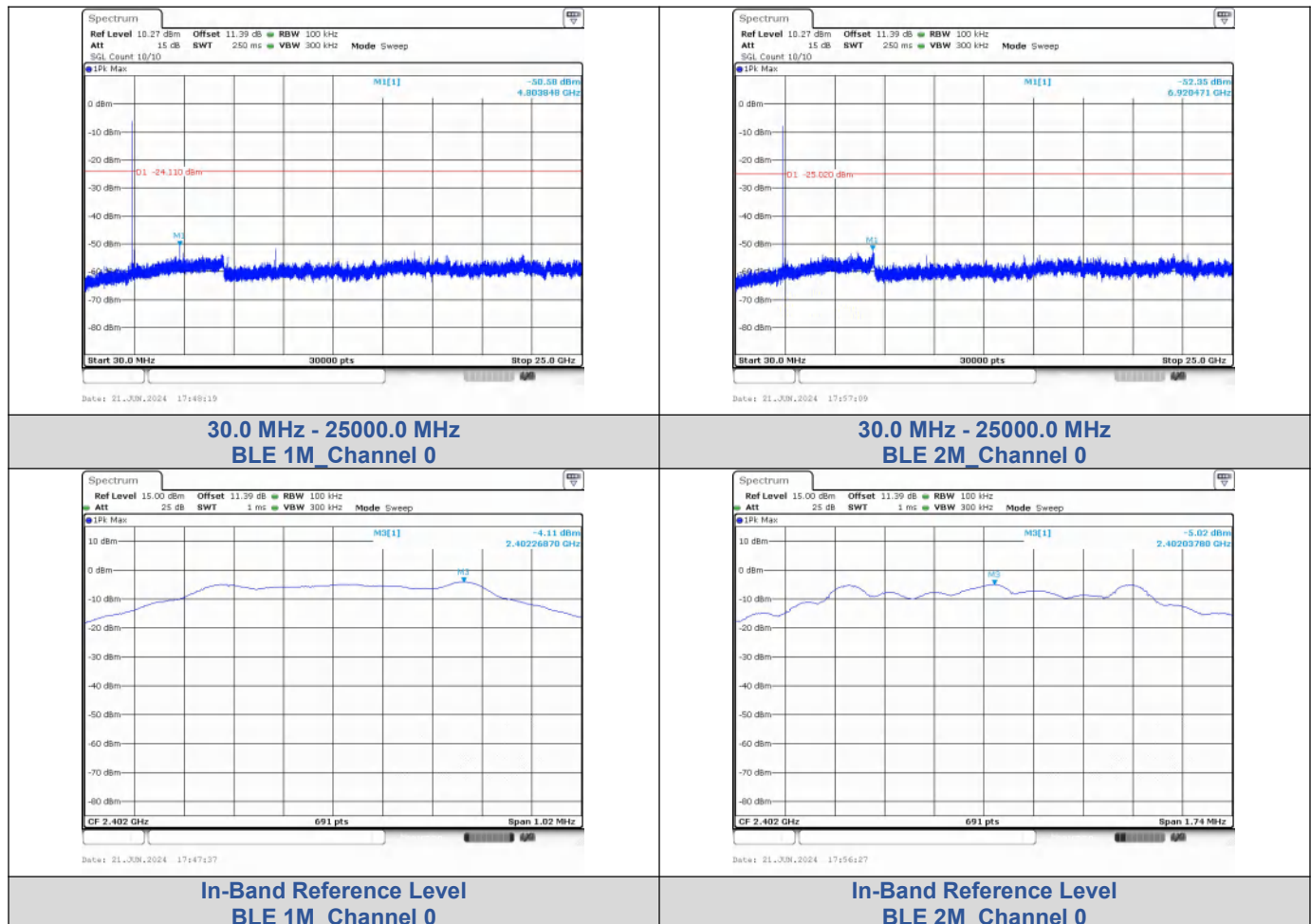
Conducted Out Of Band Emission

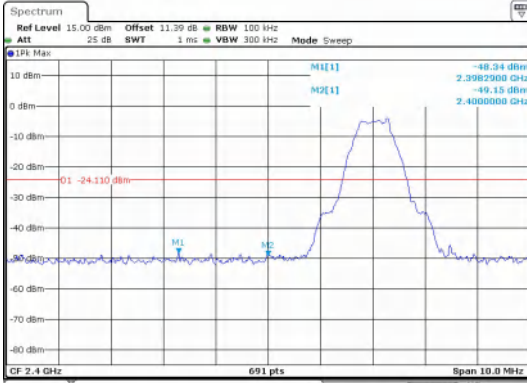
Test Result

Left

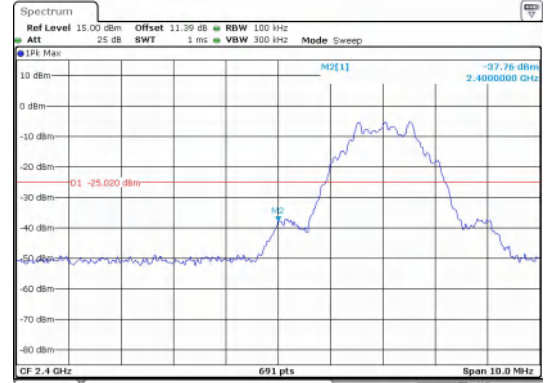
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.29	-48.336	-24.11	-24.226	PASS
		2400.00	-49.151	-24.11	-25.041	PASS
		4803.80	-50.582	-24.11	-26.472	PASS
	19	9760.39	-50.474	-23.9	-26.574	PASS
	39	2483.50	-51.075	-22.99	-28.085	PASS
		4960.33	-51.210	-22.99	-28.220	PASS
BLE 2M	0	2400.00	-37.765	-25.02	-12.745	PASS
		6920.47	-52.350	-25.02	-27.330	PASS
	19	9760.39	-51.077	-24.67	-26.407	PASS
	39	2483.50	-50.551	-23.62	-26.931	PASS
		6952.10	-50.765	-23.62	-27.145	PASS

Test Graphs

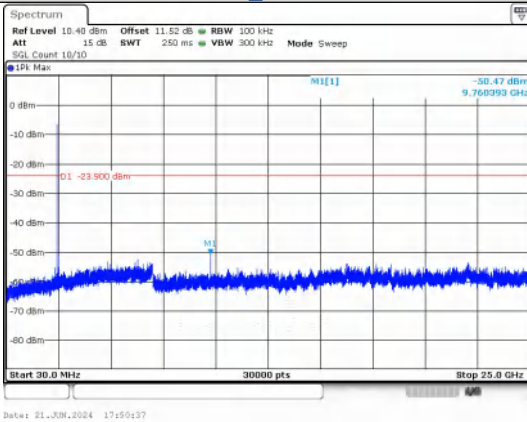




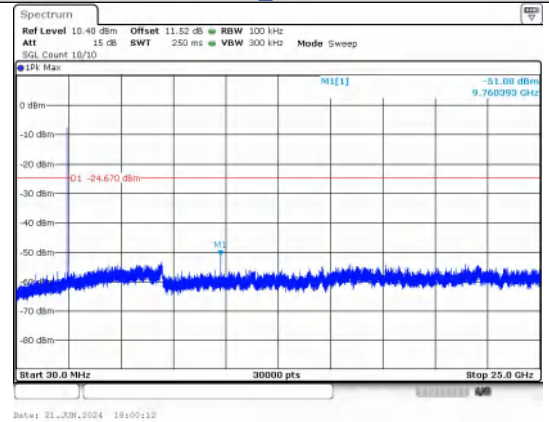
**Out Of Band Emission
BLE 1M_Channel 0**



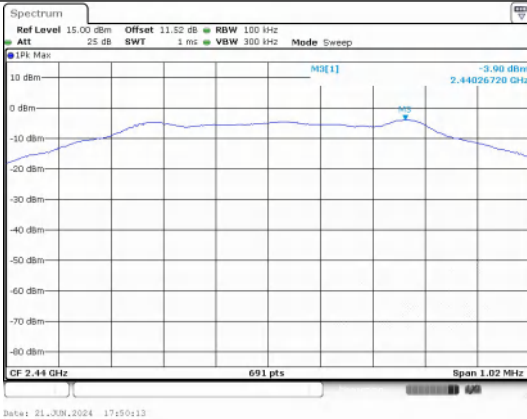
**Out Of Band Emission
BLE 2M_Channel 0**



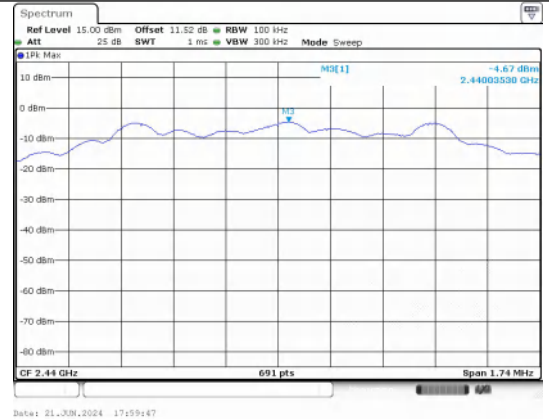
**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19**



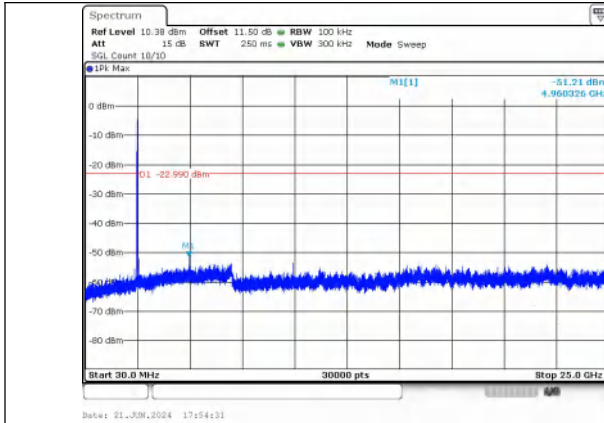
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19**



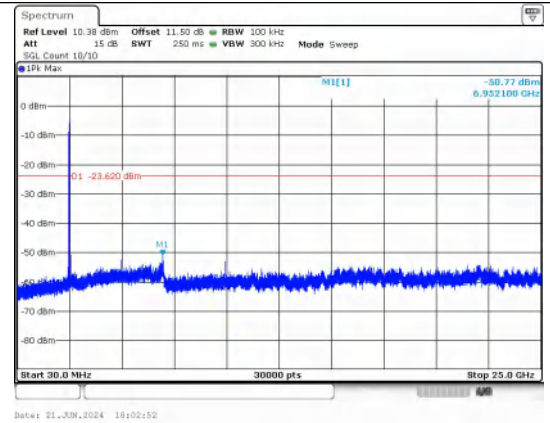
**In-Band Reference Level
BLE 1M_Channel 19**



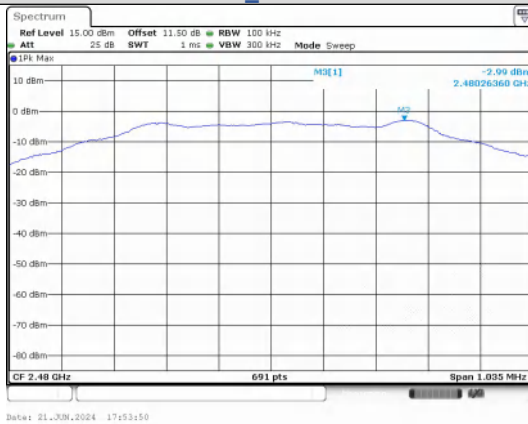
**In-Band Reference Level
BLE 2M_Channel 19**



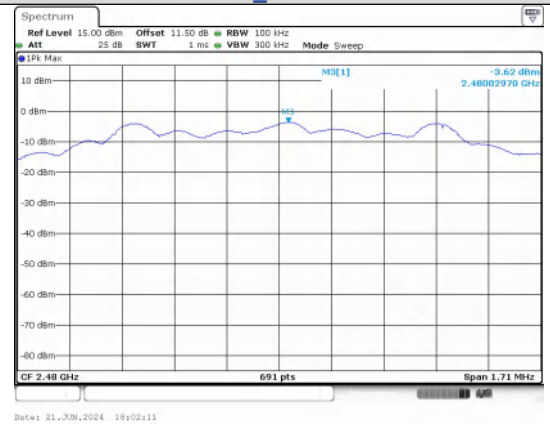
**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39**



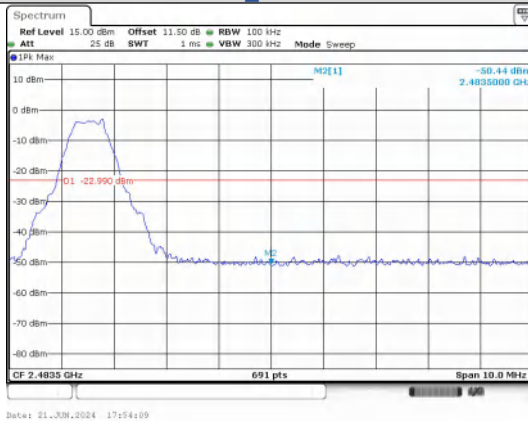
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39**



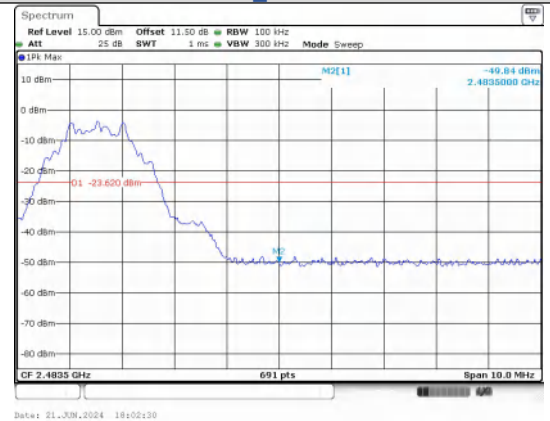
**In-Band Reference Level
BLE 1M_Channel 39**



**In-Band Reference Level
BLE 2M_Channel 39**



**Out Of Band Emission
BLE 1M_Channel 39**

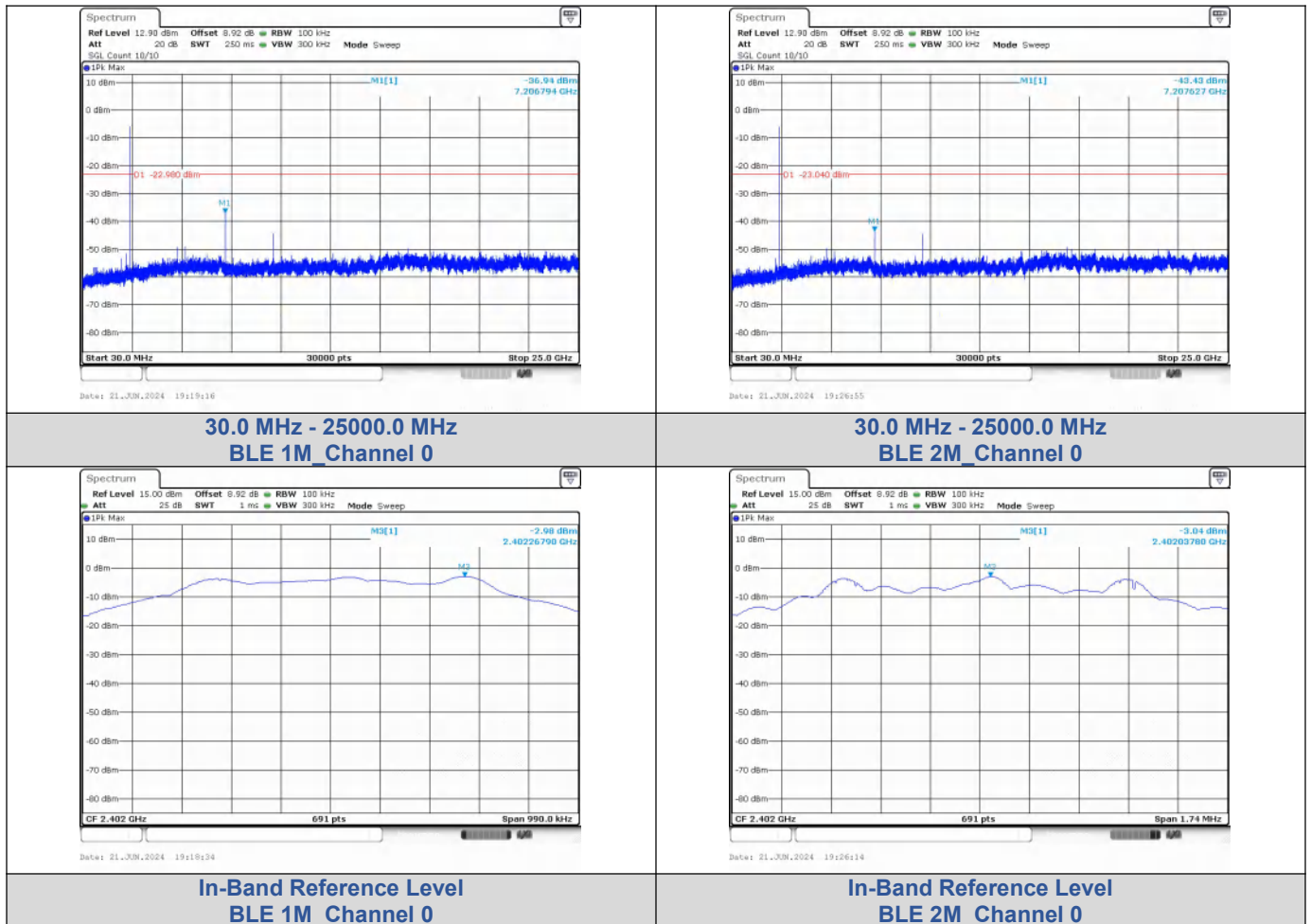


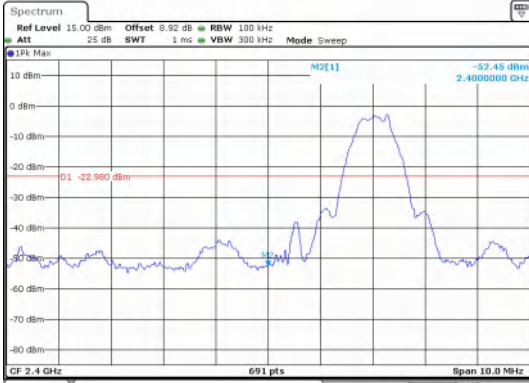
**Out Of Band Emission
BLE 2M_Channel 39**

Right

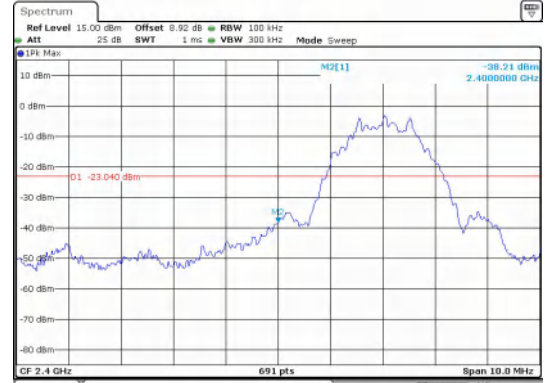
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-44.918	-22.98	-21.938	PASS
		2400.00	-52.451	-22.98	-29.471	PASS
		7206.80	-36.942	-22.98	-13.962	PASS
	19	7319.16	-40.167	-23.76	-16.407	PASS
		2483.50	-49.862	-23.08	-26.782	PASS
		9914.37	-39.570	-23.08	-16.490	PASS
BLE 2M	0	2400.00	-38.213	-23.04	-15.173	PASS
		7207.63	-43.430	-23.04	-20.390	PASS
	19	9753.73	-41.294	-23.75	-17.544	PASS
		2483.50	-53.192	-23.04	-30.152	PASS
		9914.37	-39.627	-23.04	-16.587	PASS
	39					

Test Graphs

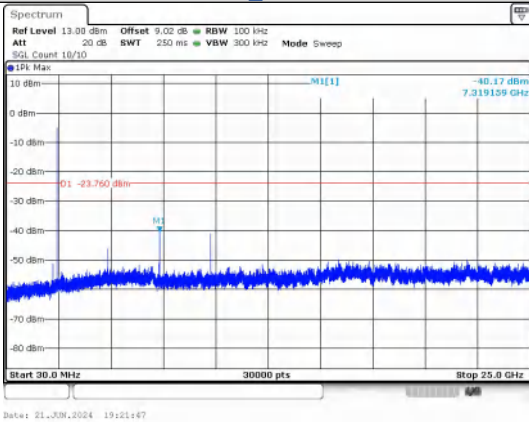




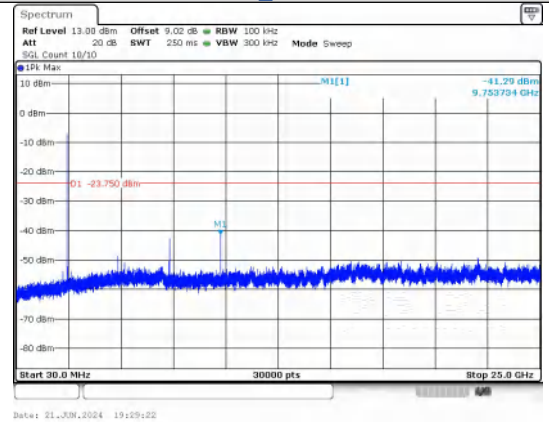
**Out Of Band Emission
BLE 1M_Channel 0**



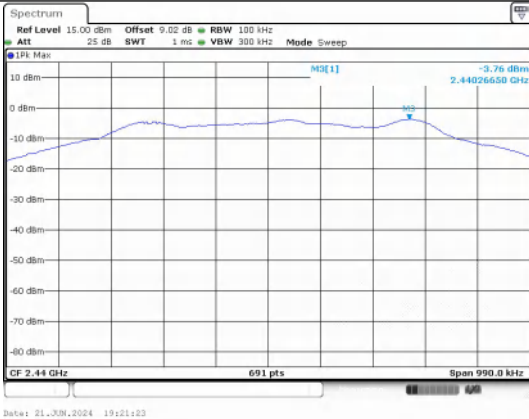
**Out Of Band Emission
BLE 2M_Channel 0**



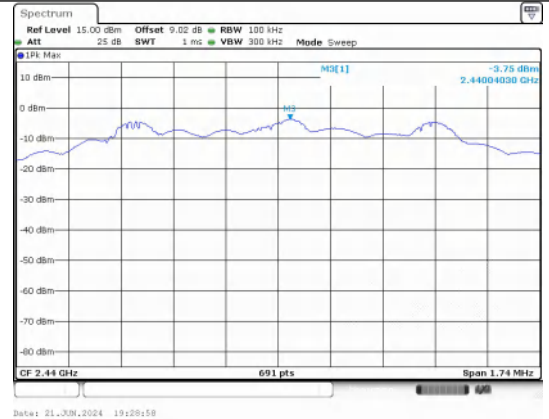
**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19**



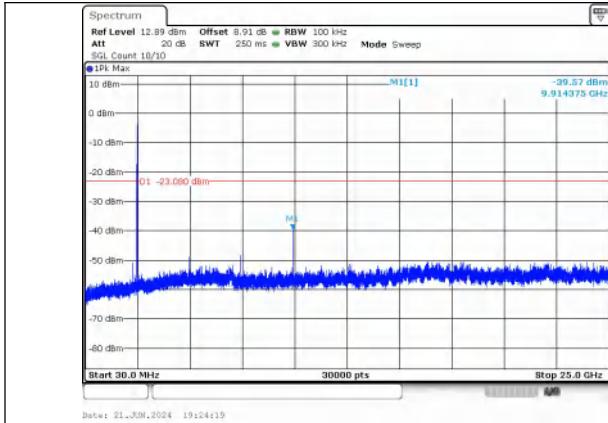
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19**



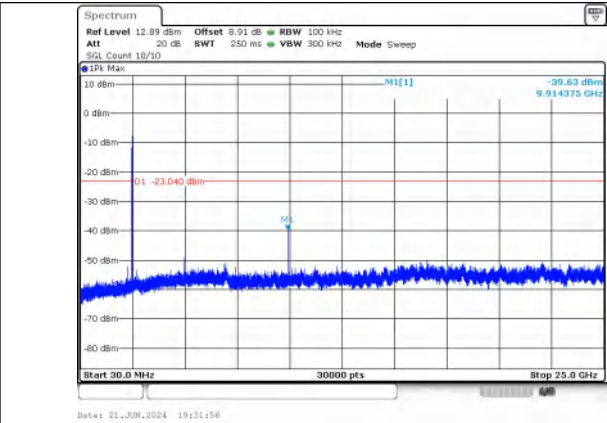
**In-Band Reference Level
BLE 1M_Channel 19**



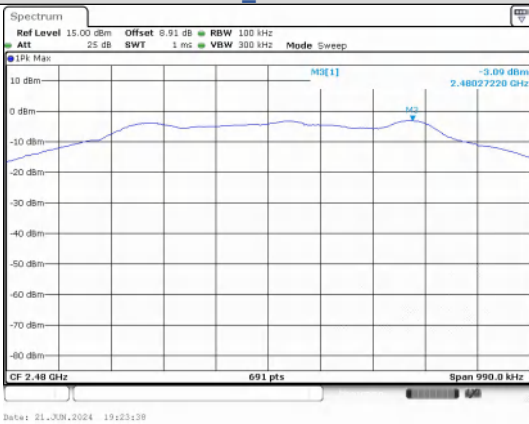
**In-Band Reference Level
BLE 2M_Channel 19**



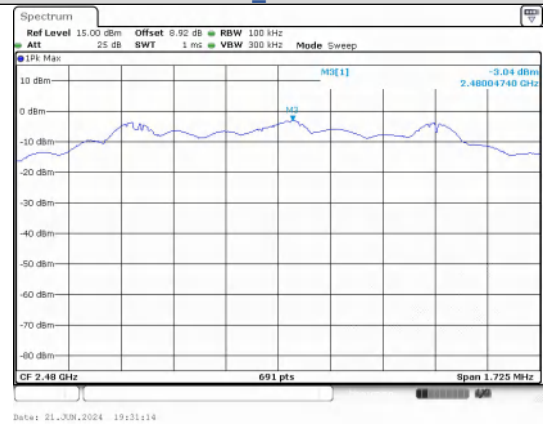
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



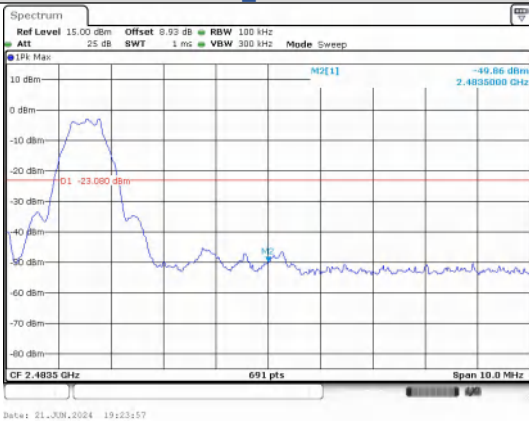
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39



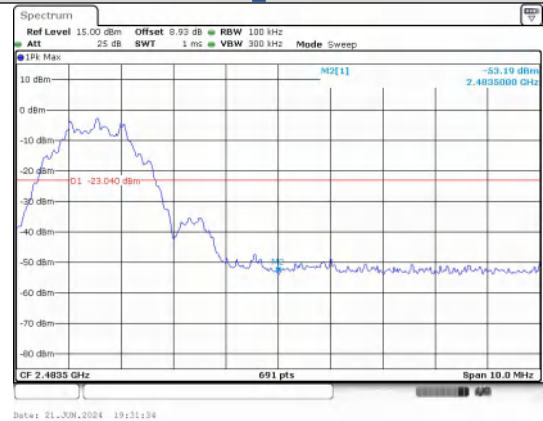
In-Band Reference Level
BLE 1M_Channel 39



In-Band Reference Level
BLE 2M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39

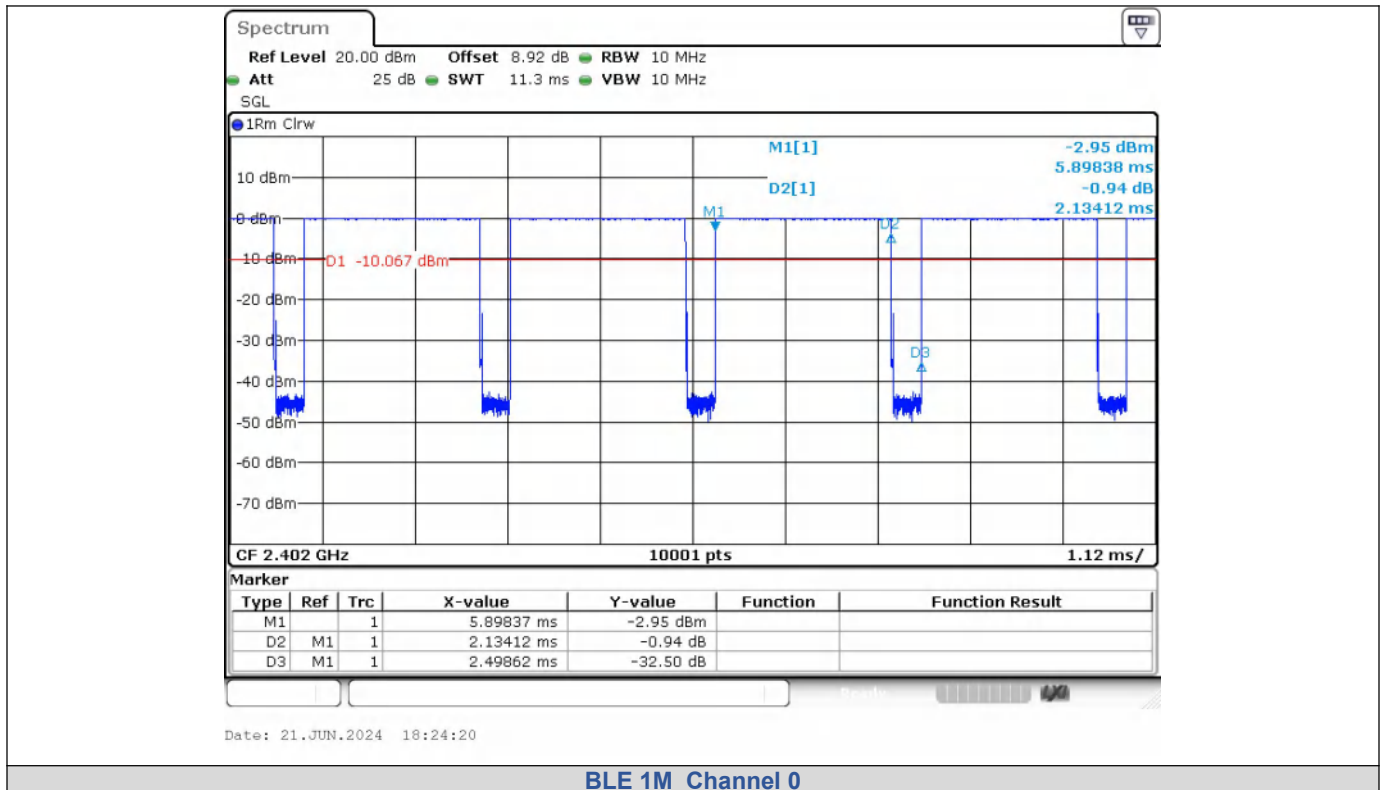
Duty Cycle

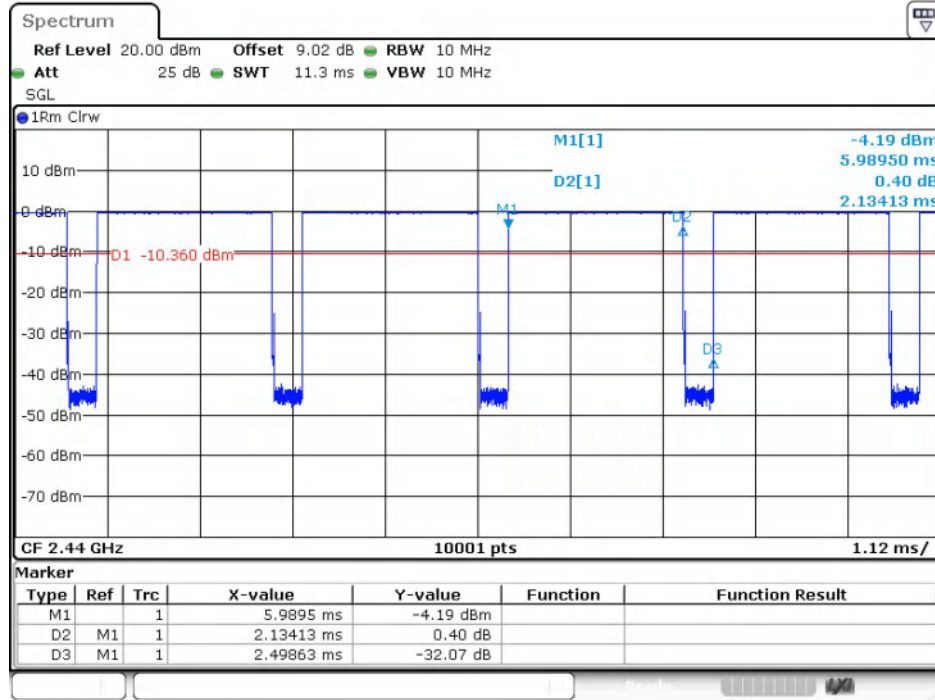
Test Result

Left

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
BLE 1M	0	2.134	2.499	85.41	0.8541	0.6849
	19	2.134	2.499	85.41	0.8541	0.6849
	39	2.134	2.499	85.41	0.8541	0.6849
BLE 2M	0	1.082	2.499	43.31	0.4331	3.6341
	19	1.082	2.499	43.31	0.4331	3.6341
	39	1.077	2.486	43.31	0.4331	3.6341

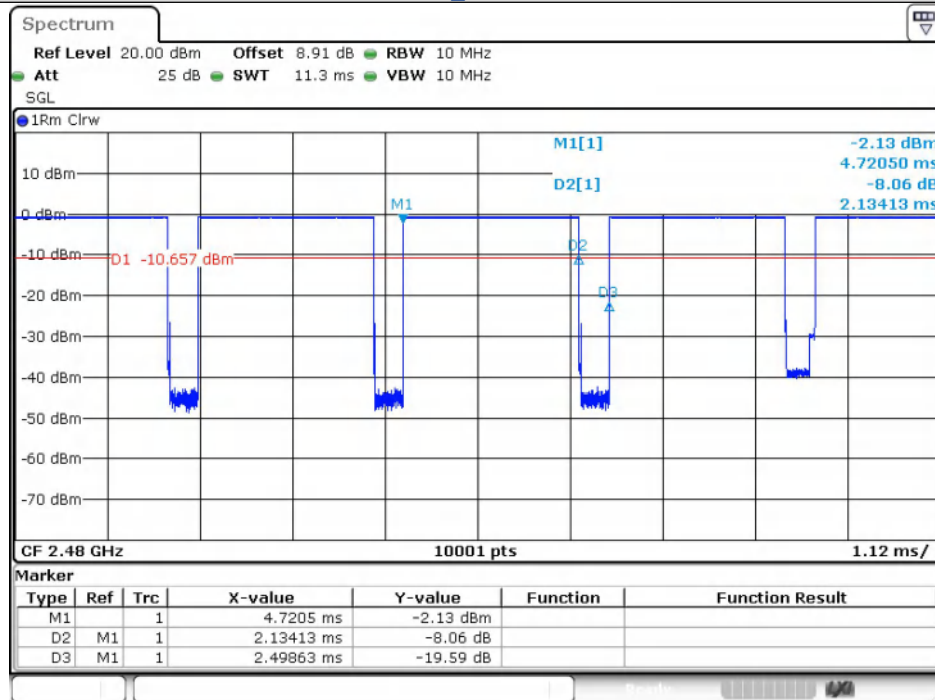
Test Graphs





Date: 21.JUN.2024 18:26:58

BLE 1M_Channel 19



Date: 21.JUN.2024 18:29:18

BLE 1M_Channel 39



Spectrum

Ref Level 20.00 dBm Offset 9.02 dB RBW 10 MHz

Att 25 dB SWT 11.3 ms VBW 10 MHz

SGL

1Rm Clrw

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

M1[1]

D2[1]

M1

D2

D3

O1 -10.326 dBm

-4.92 dBm

5.11312 ms

1.01 dB

1.08225 ms

CF 2.44 GHz

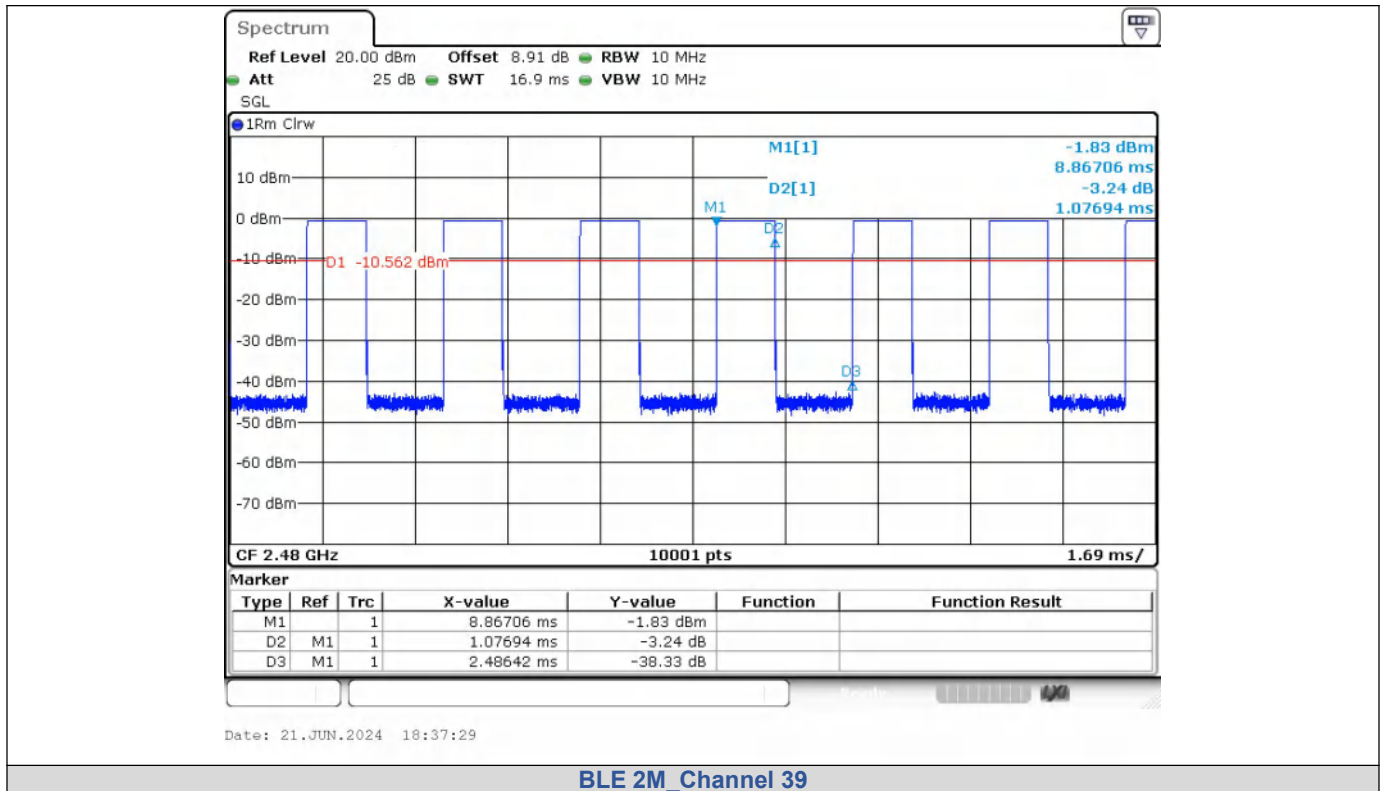
10001 pts

1.12 ms/

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.11312 ms	-4.92 dBm		
D2	M1	1	1.08225 ms	1.01 dB		
D3	M1	1	2.49863 ms	-32.32 dB		

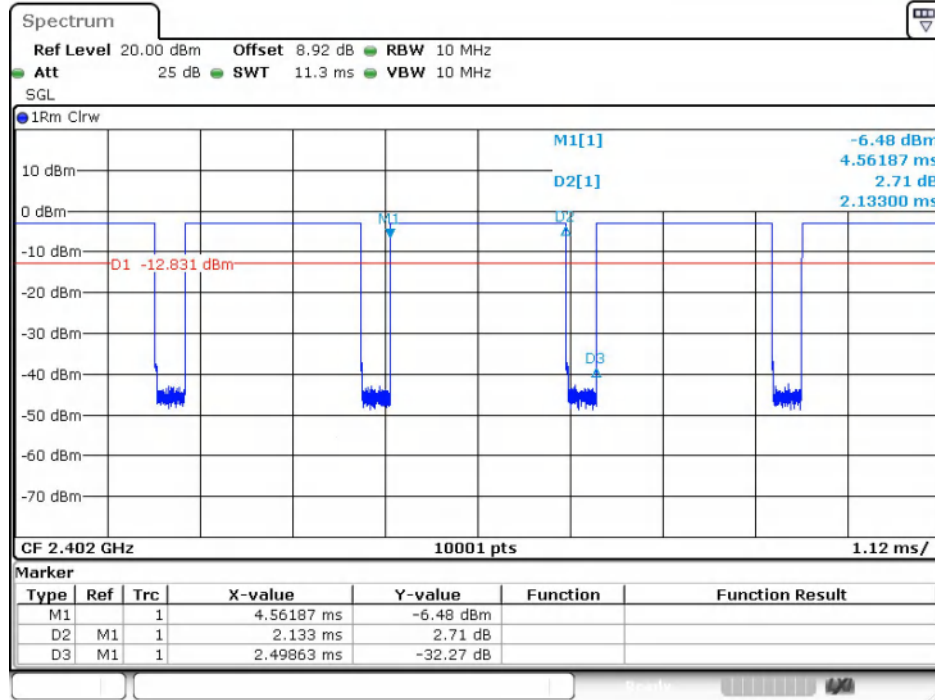
Date: 21.JUN.2024 18:35:05



Right

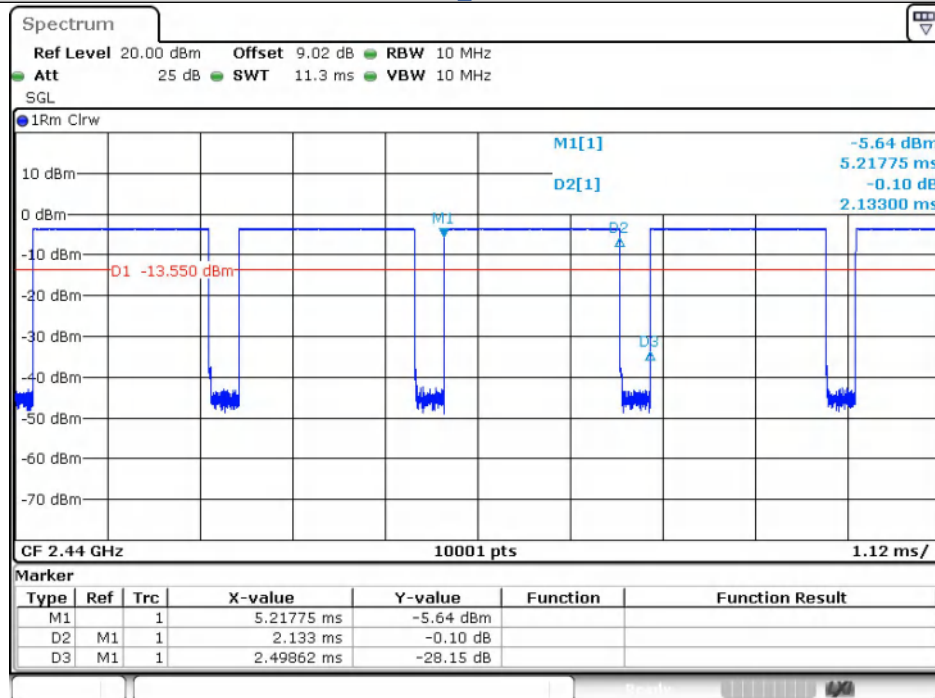
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869
	19	2.133	2.499	85.37	0.8537	0.6869
	39	2.134	2.500	85.37	0.8537	0.6869
BLE 2M	0	1.082	2.499	43.31	0.4331	3.6341
	19	1.081	2.499	43.27	0.4327	3.6381
	39	1.081	2.499	43.27	0.4327	3.6381

Test Graphs



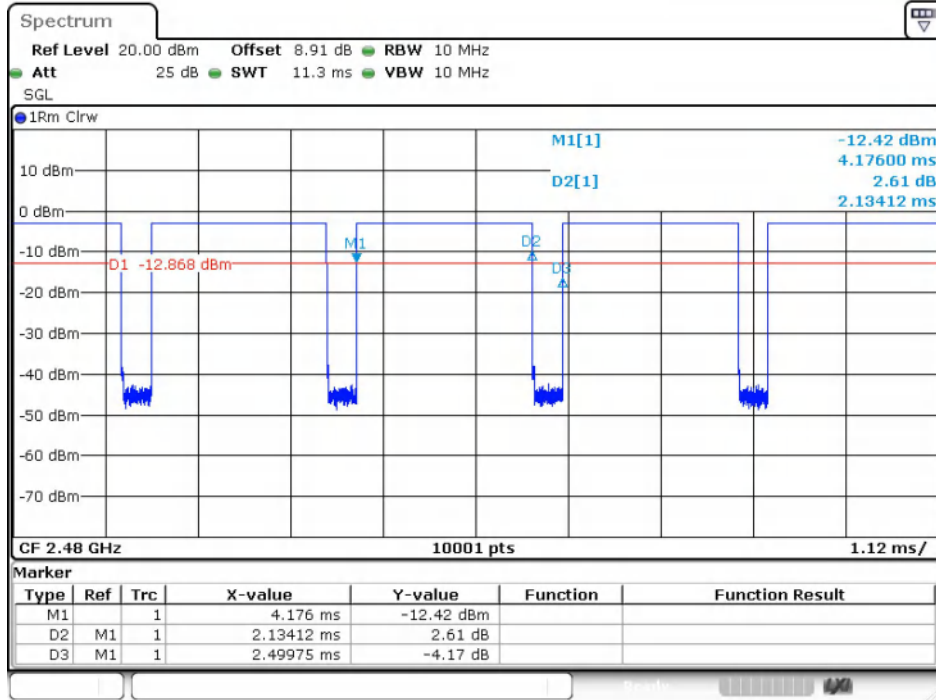
Date: 21.JUN.2024 19:17:15

BLE 1M_Channel 0



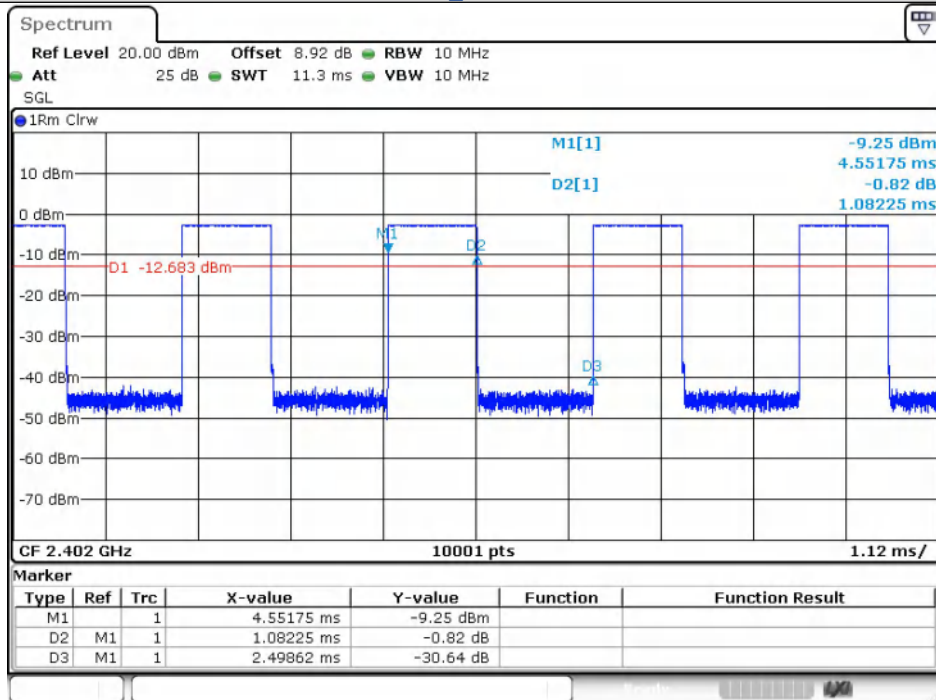
Date: 21.JUN.2024 19:20:04

BLE 1M_Channel 19



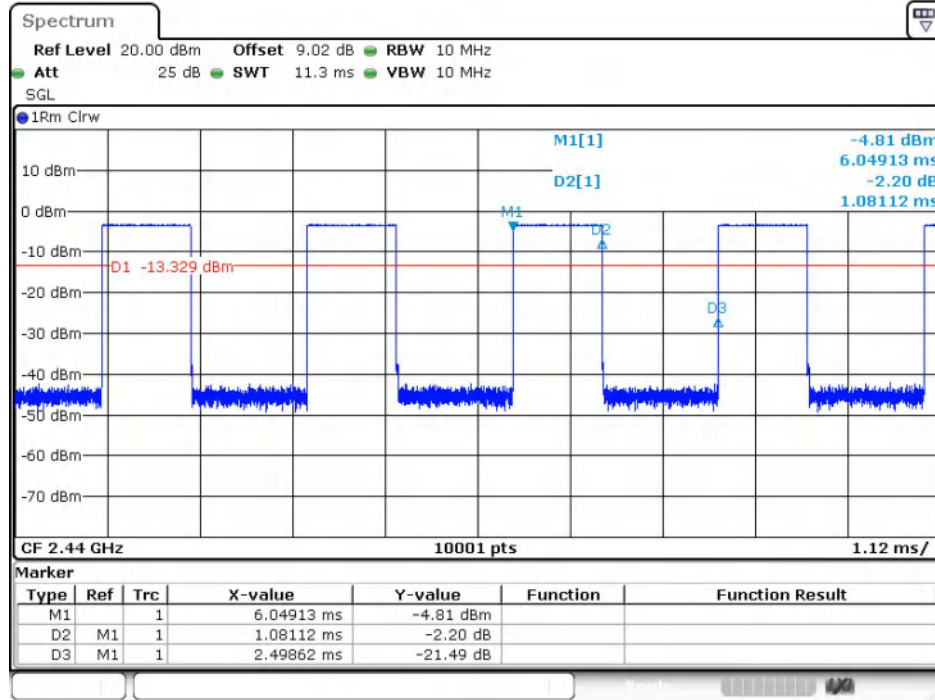
Date: 21.JUN.2024 19:22:17

BLE 1M_Channel 39



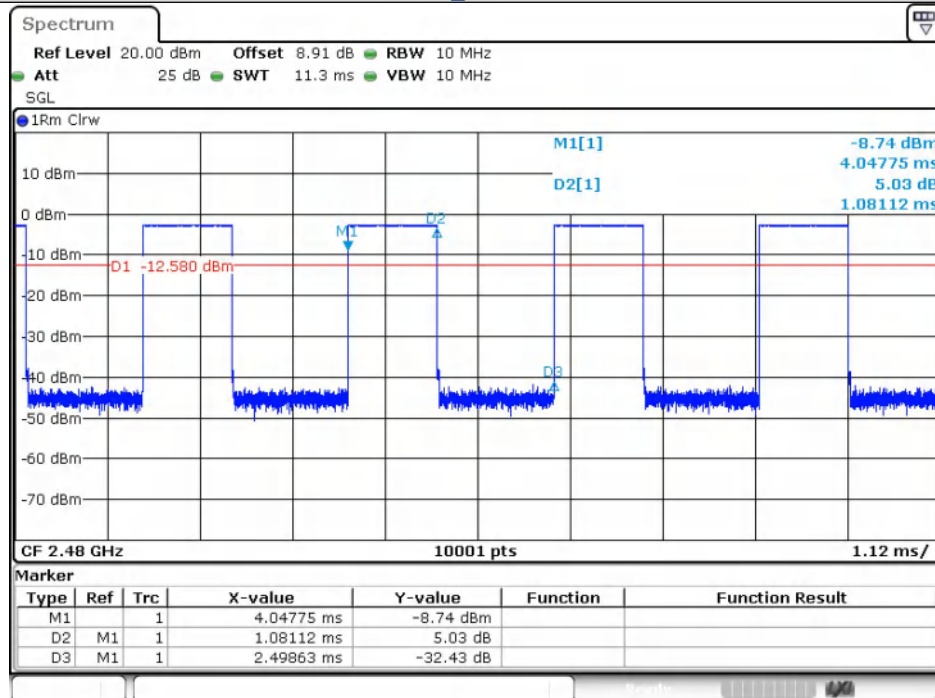
Date: 21.JUN.2024 19:24:55

BLE 2M_Channel 0



Date: 21.JUN.2024 19:27:37

BLE 2M_Channel 19



Date: 21.JUN.2024 19:29:55

BLE 2M_Channel 39

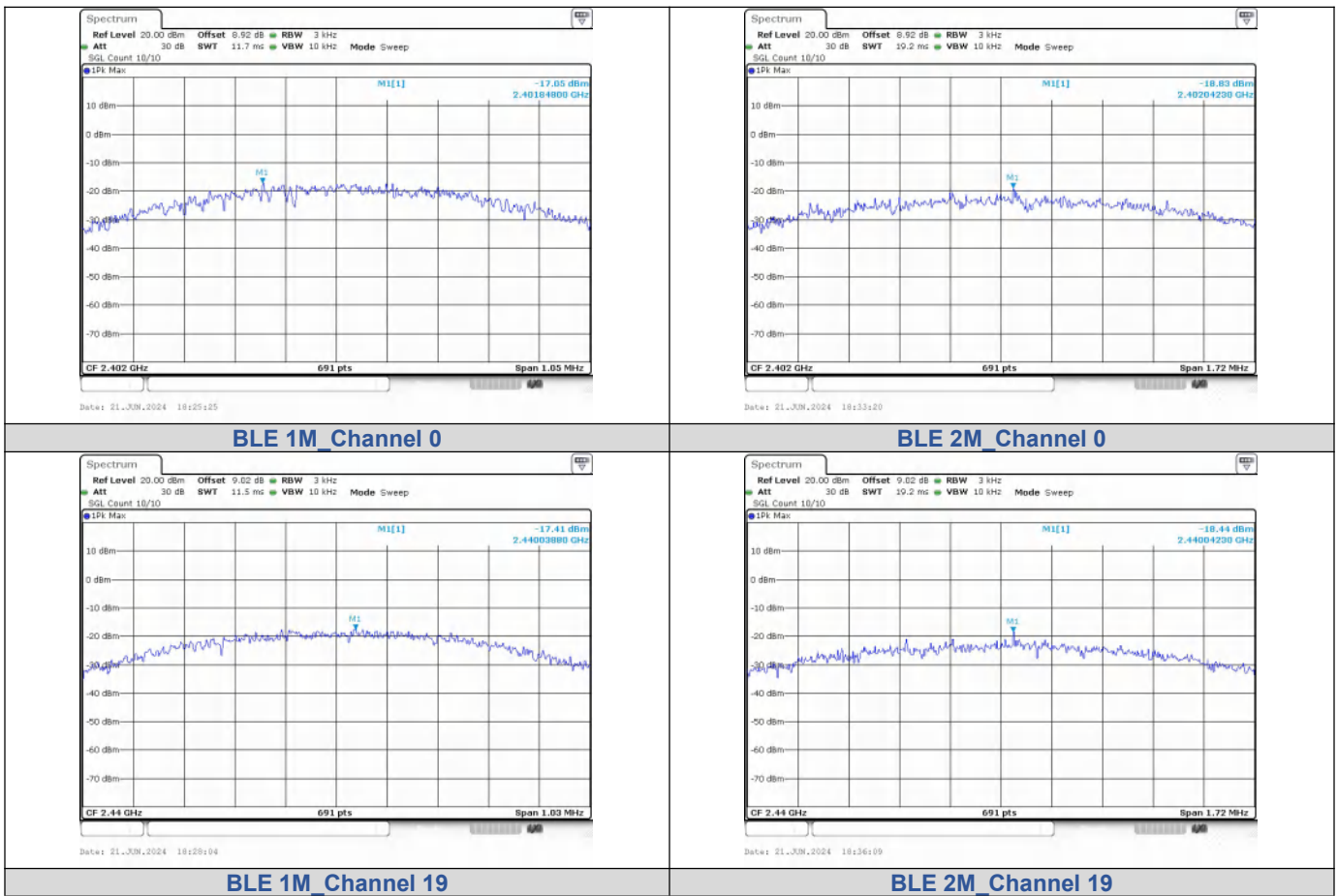
Power Spectral Density

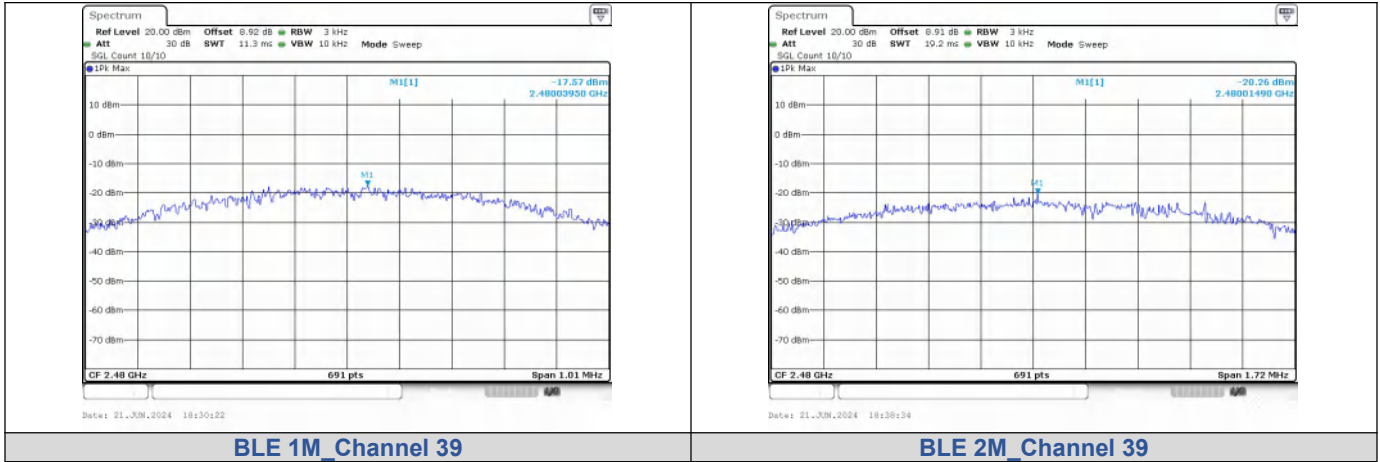
Test Result

Left

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.048	≤8	PASS
BLE 1M	19	-17.407	≤8	PASS
BLE 1M	39	-17.565	≤8	PASS
BLE 2M	0	-18.829	≤8	PASS
BLE 2M	19	-18.437	≤8	PASS
BLE 2M	39	-20.262	≤8	PASS

Test Graphs





Right

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.253	≤8	PASS
BLE 1M	19	-20.379	≤8	PASS
BLE 1M	39	-19.689	≤8	PASS
BLE 2M	0	-21.913	≤8	PASS
BLE 2M	19	-21.693	≤8	PASS
BLE 2M	39	-21.129	≤8	PASS

Test Graphs

