

Appendix B

Report No.:	CISRR24052414402
FCC ID:	2BGIM-S11
Product Name:	S11 Bluetooth earphones
Model No.:	S11
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Conducted Peak Output Power

Left

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	-0.21	0.95	30	PASS
	19	-0.06	0.99	30	PASS
	39	-0.37	0.92	30	PASS
2LE	0	-0.21	0.95	30	PASS
	19	0.00	1.0	30	PASS
	39	-0.27	0.94	30	PASS

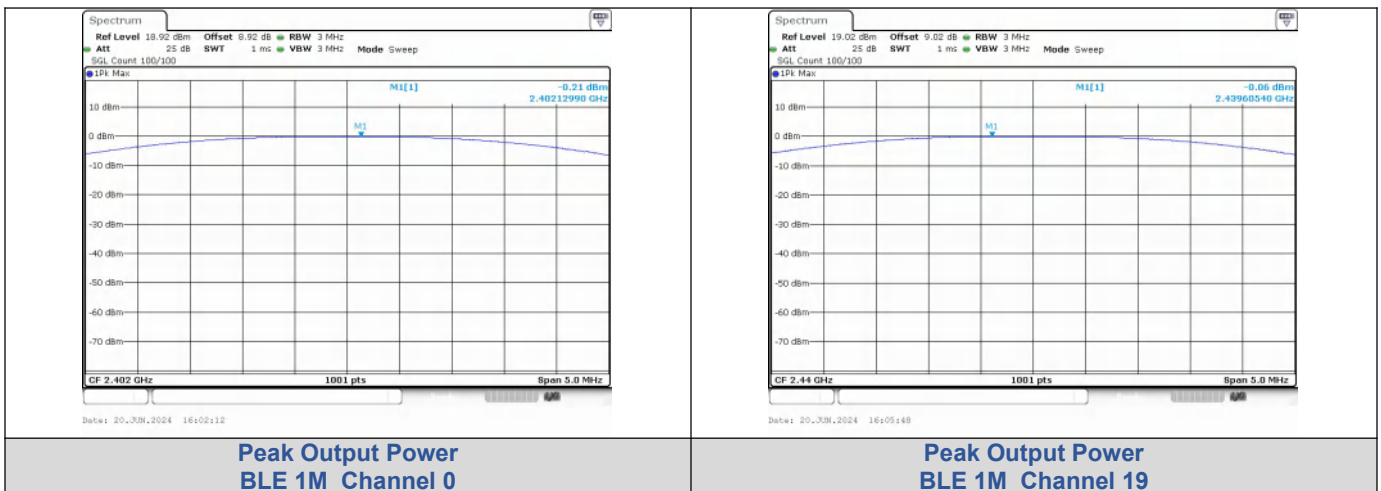
Right

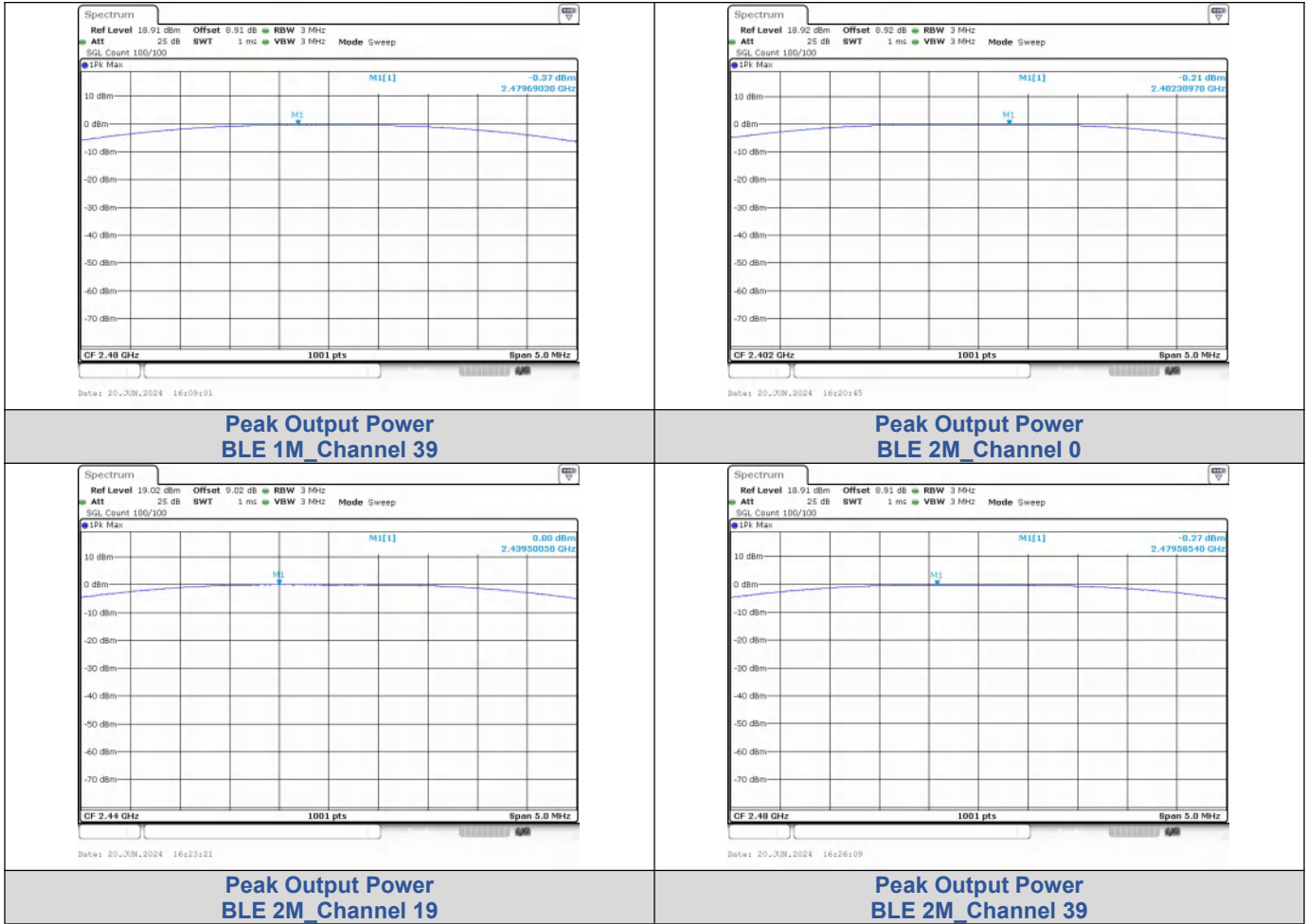
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	-0.83	0.83	30	PASS
	19	-0.77	0.84	30	PASS
	39	-0.32	0.93	30	PASS
2LE	0	-0.69	0.85	30	PASS
	19	-0.51	0.89	30	PASS
	39	-0.11	0.97	30	PASS

Test Graphs

Left





Right



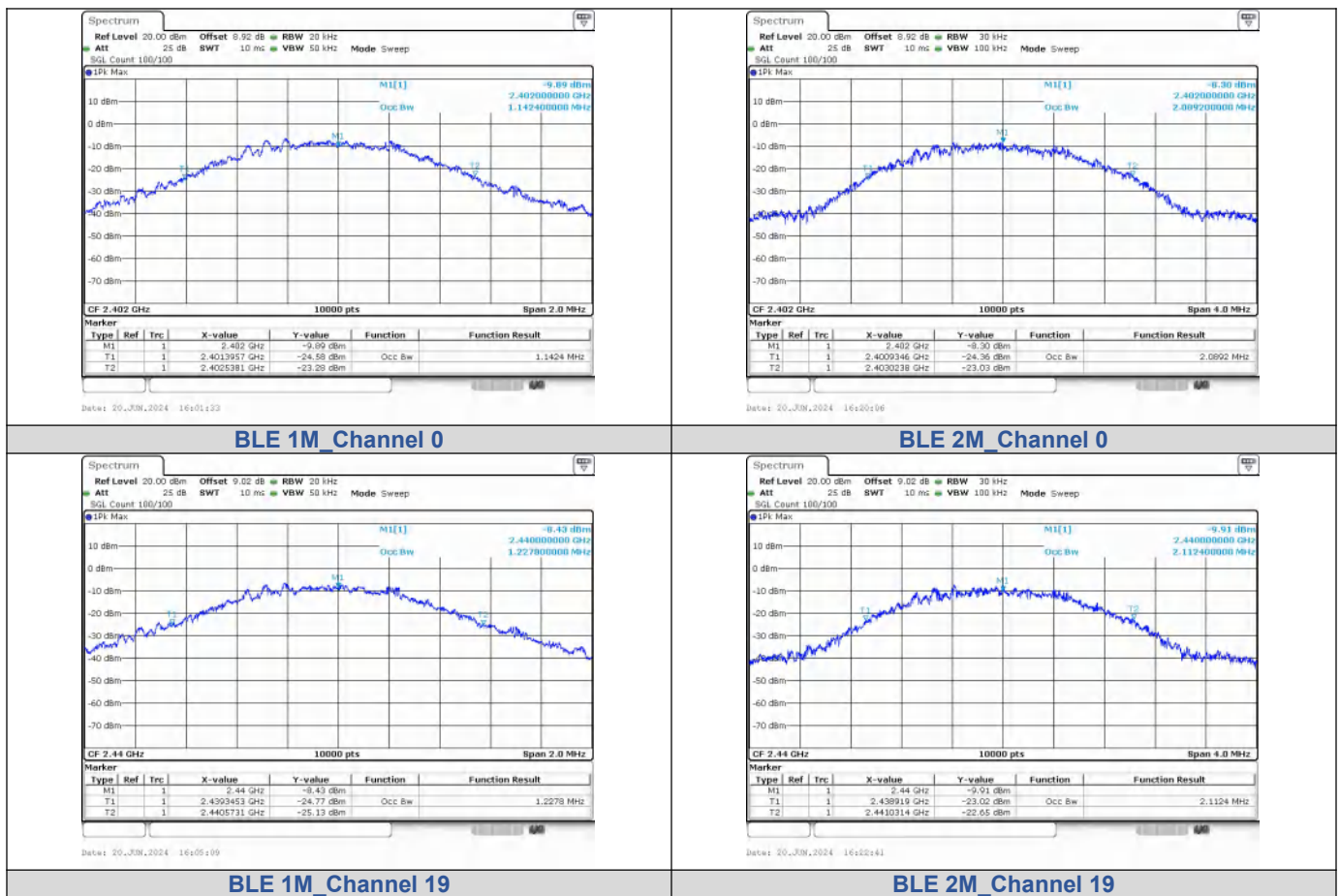
99% Bandwidth

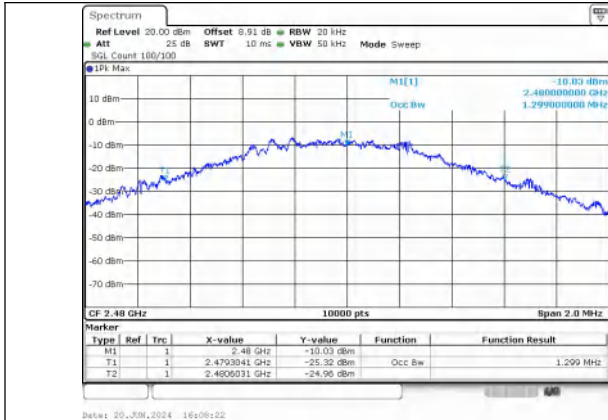
Left

Test Result

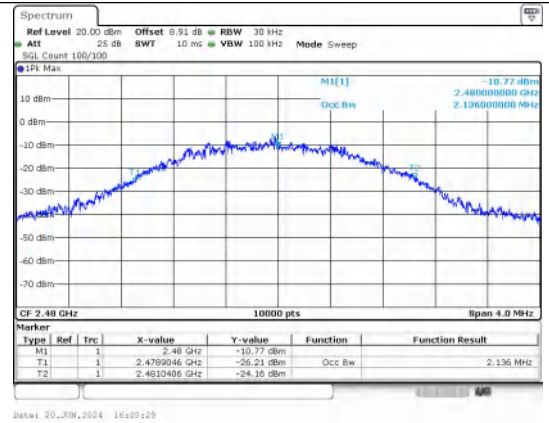
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.1424
BLE 1M	19	2440	1.2278
BLE 1M	39	2480	1.2990
BLE 2M	0	2402	2.0892
BLE 2M	19	2440	2.1124
BLE 2M	39	2480	2.1360

Test Graphs





BLE 1M_Channel 39



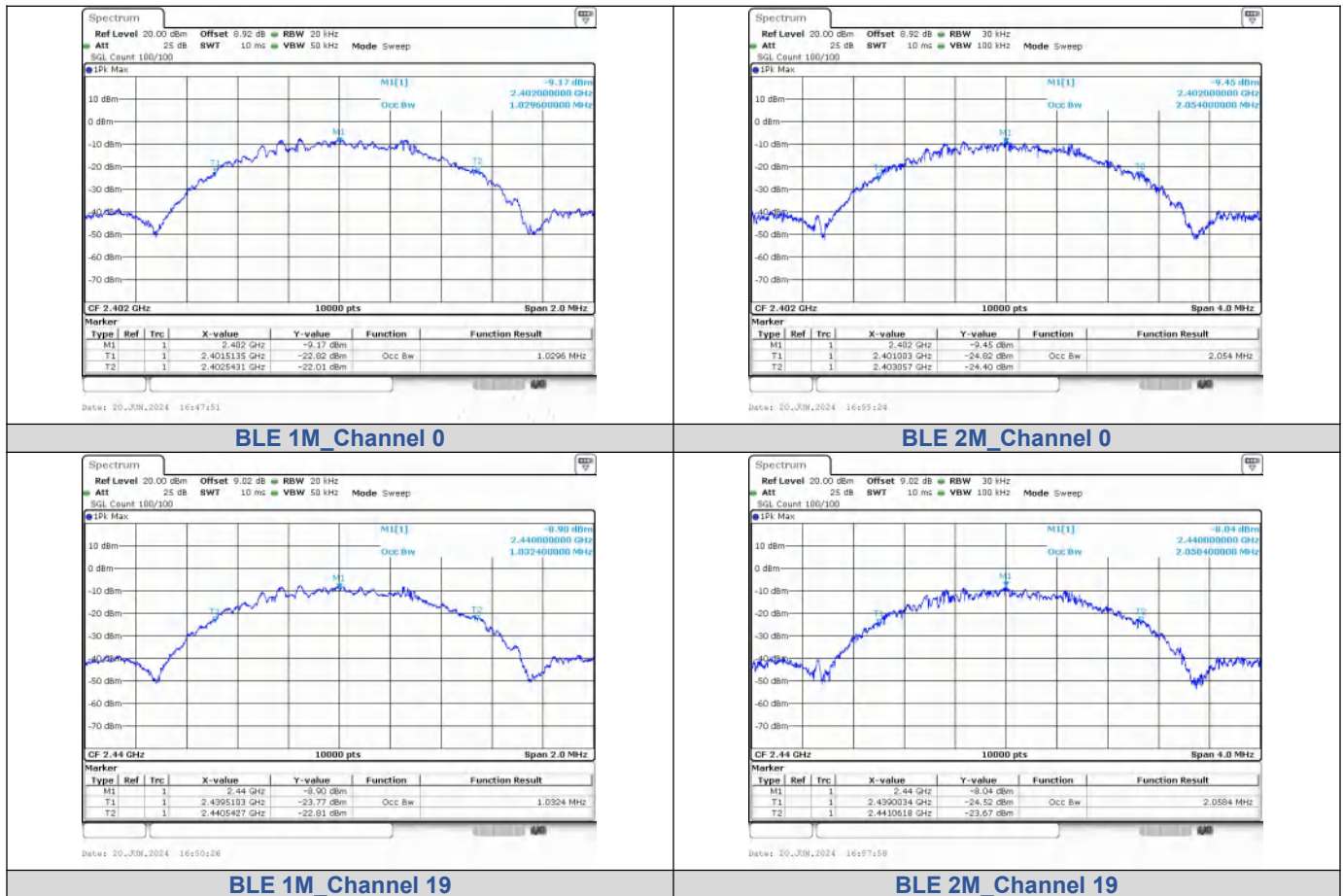
BLE 2M_Channel 39

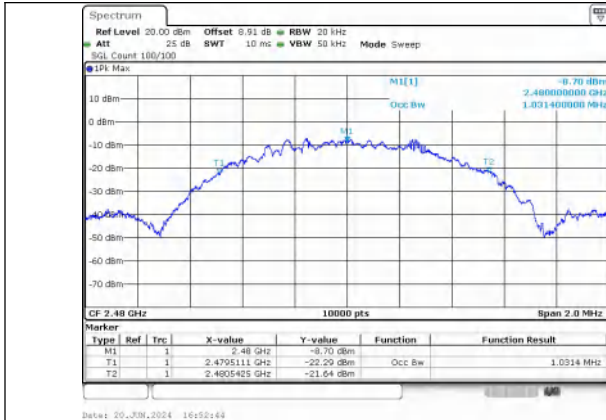
Right

Test Result

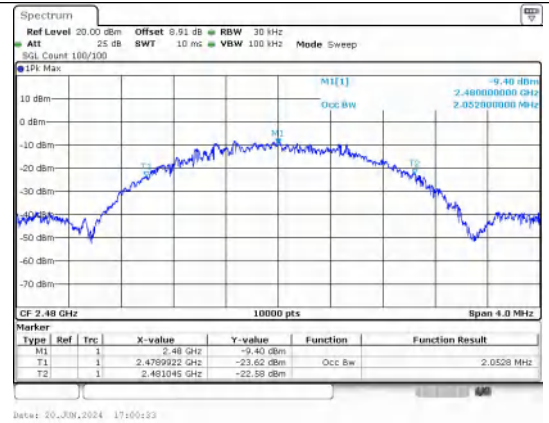
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0296
BLE 1M	19	2440	1.0324
BLE 1M	39	2480	1.0314
BLE 2M	0	2402	2.0540
BLE 2M	19	2440	2.0584
BLE 2M	39	2480	2.0528

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39

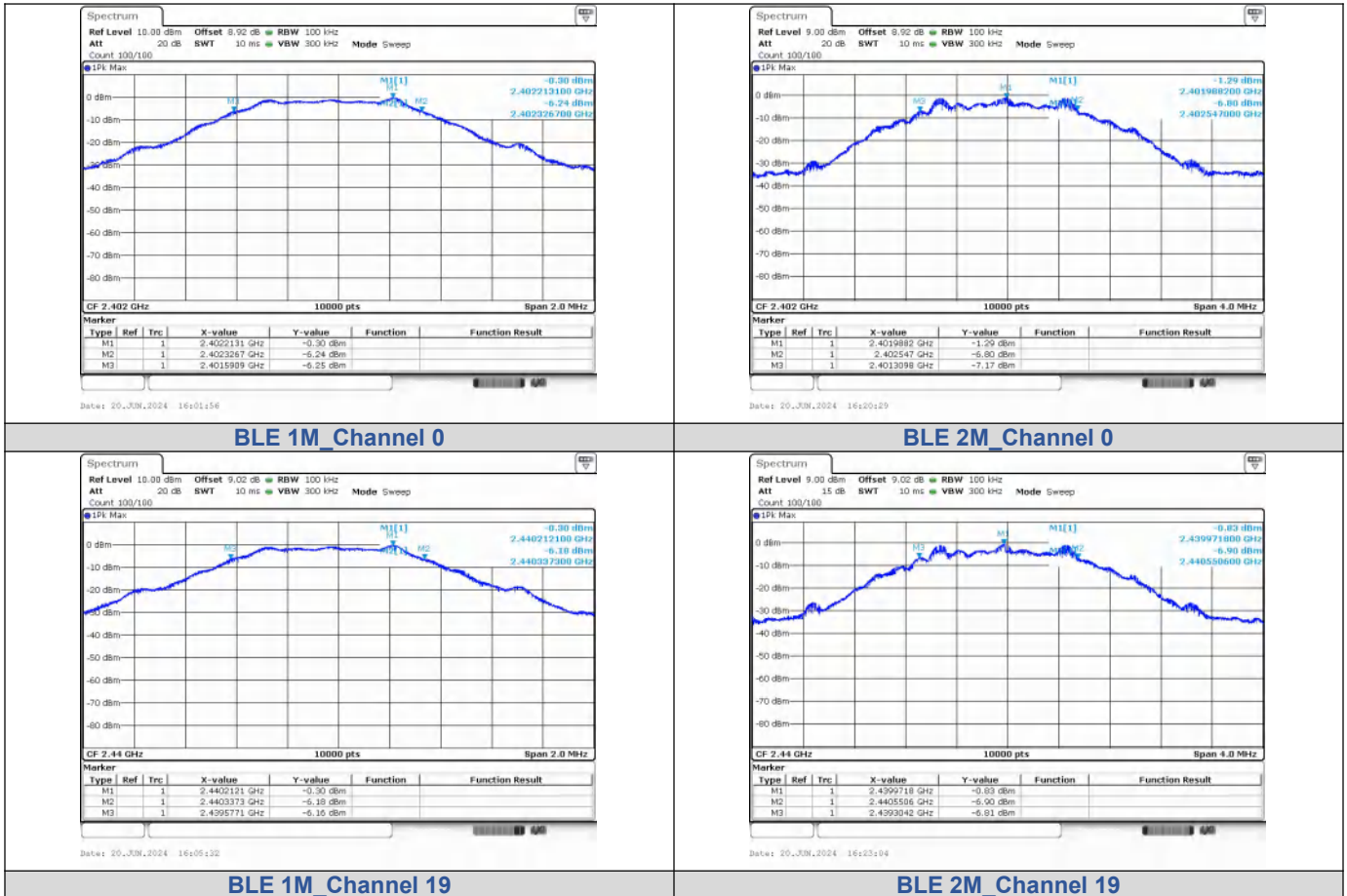
6dB Bandwidth

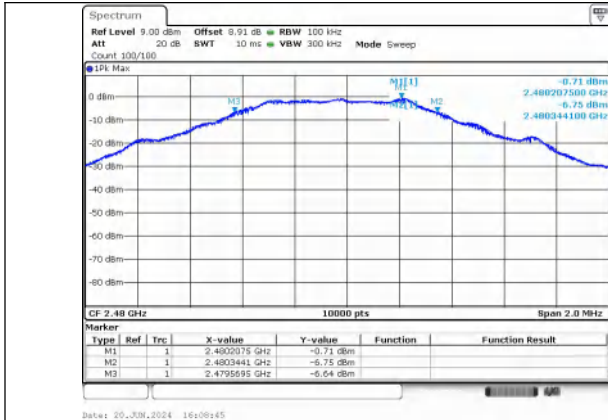
Left

Test Result

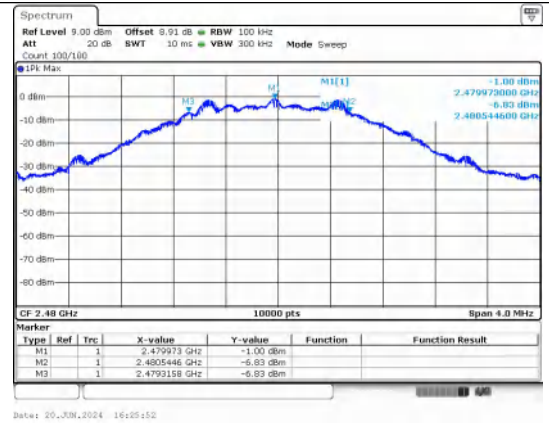
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7400	≥0.5	PASS
	19	2440	0.7600		PASS
	39	2480	0.7700		PASS
BLE 2M	0	2402	1.240		PASS
	19	2440	1.250		PASS
	39	2480	1.220		PASS

Test Graphs





BLE 1M_Channel 39



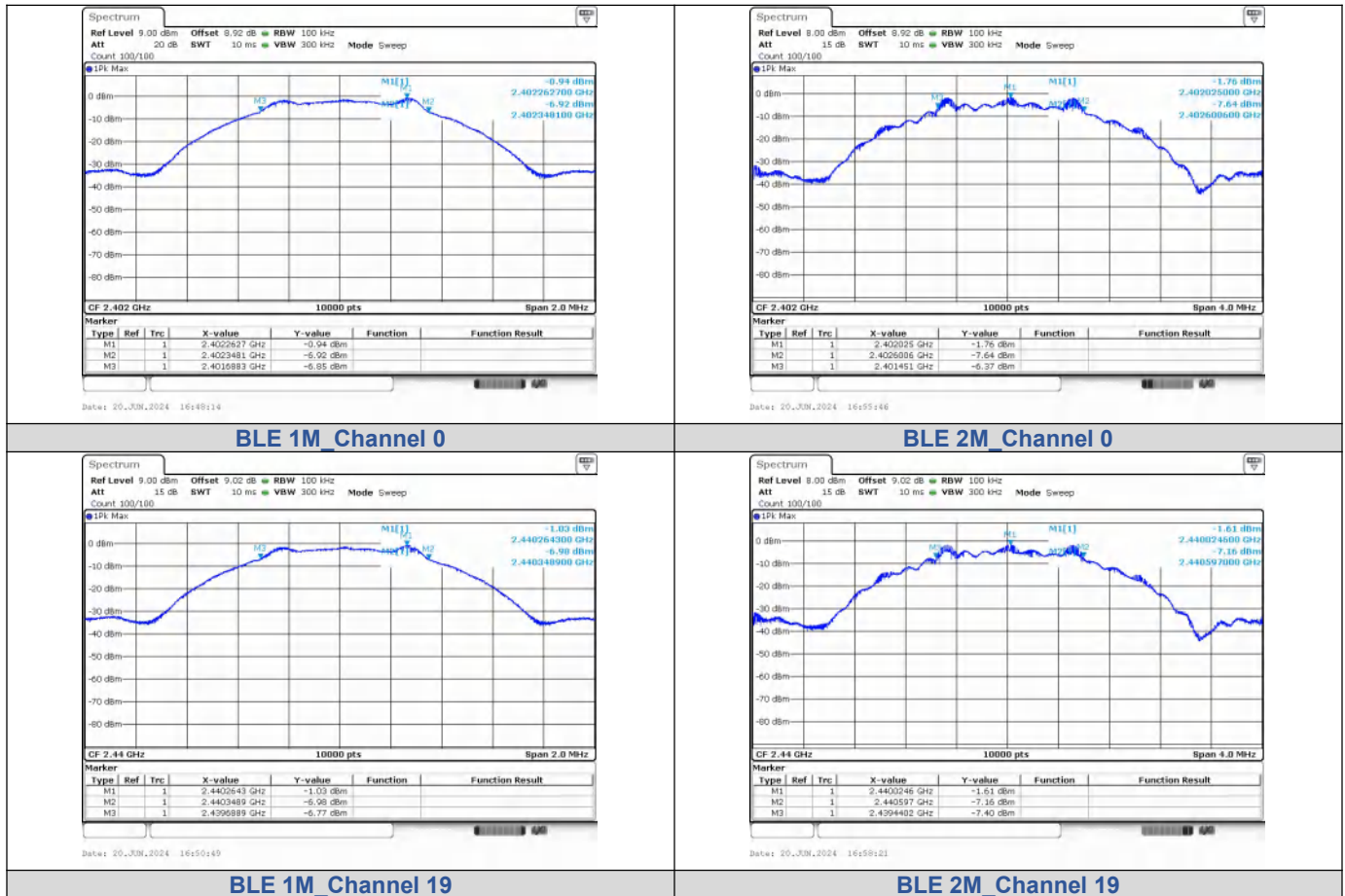
BLE 2M_Channel 39

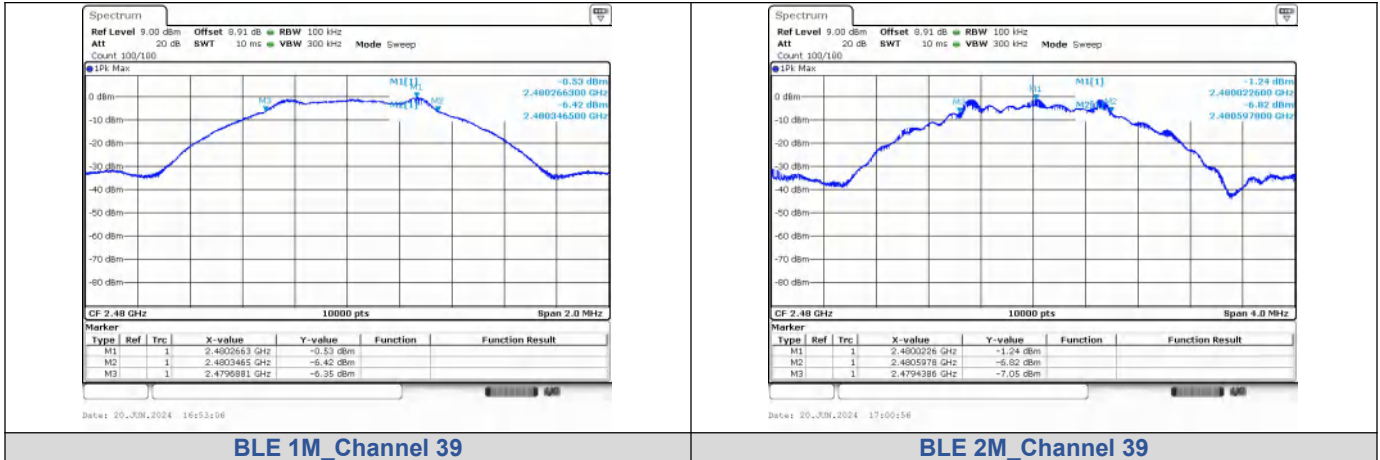
Right

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	1.160		PASS
	39	2480	1.160		PASS

Test Graphs





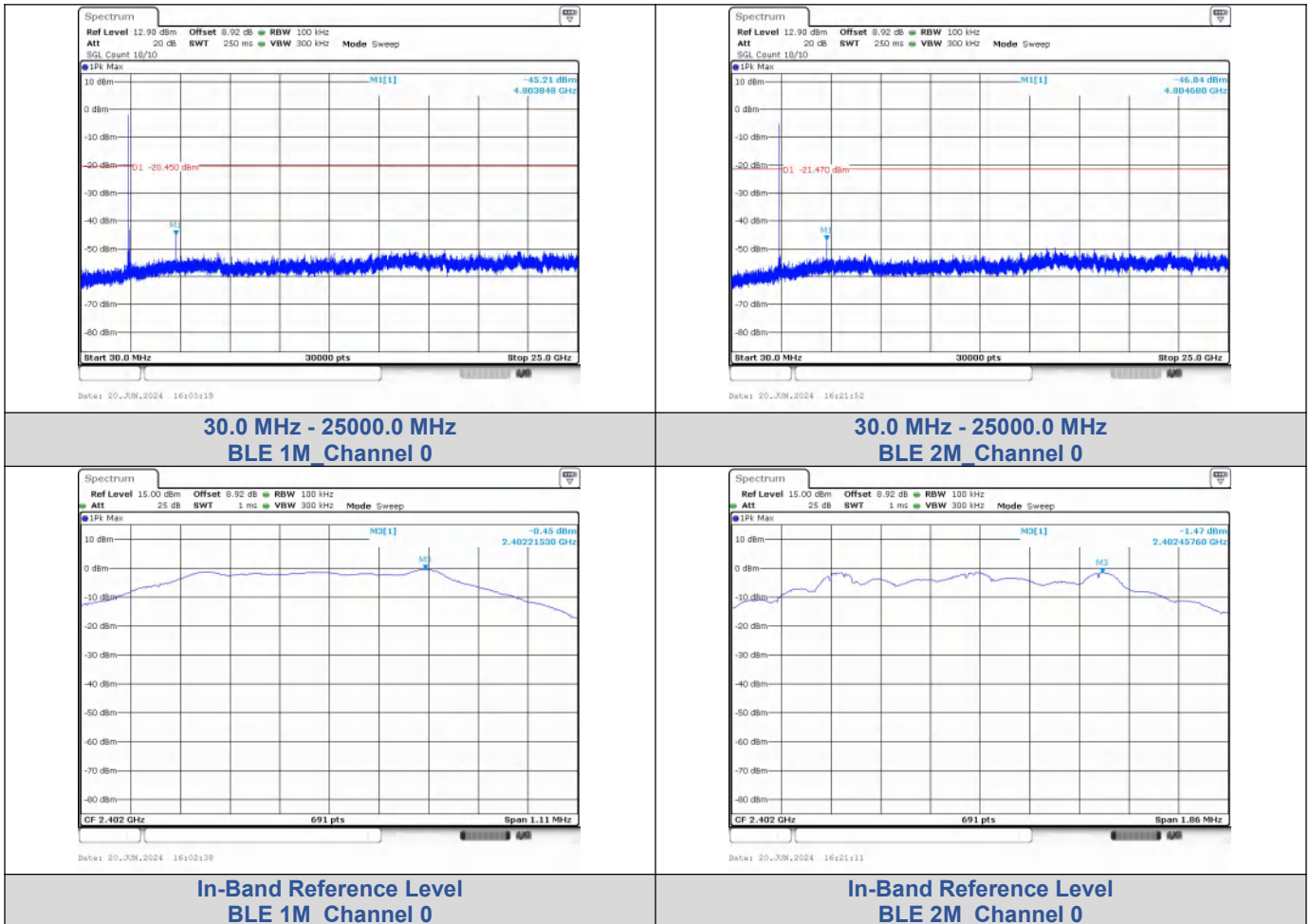
Conducted Out Of Band Emission

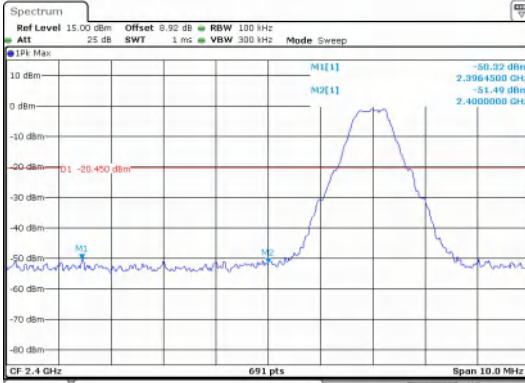
Left

Test Result

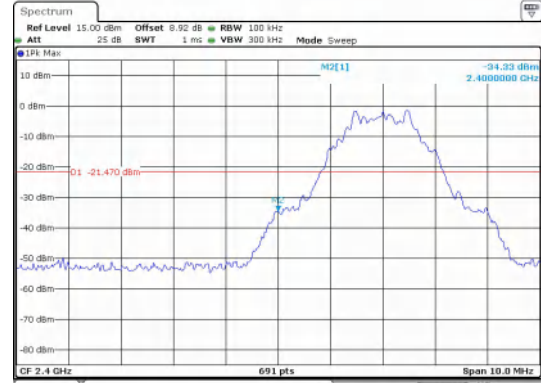
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2396.45	-50.318	-20.45	-29.868	PASS
		2400.00	-51.489	-20.45	-31.039	PASS
		4803.80	-45.211	-20.45	-24.761	PASS
	19	4879.59	-44.645	-20.35	-24.295	PASS
	39	2483.50	-52.945	-20.71	-32.235	PASS
		4960.33	-44.475	-20.71	-23.765	PASS
BLE 2M	0	2400.00	-34.333	-21.47	-12.863	PASS
		4804.68	-46.841	-21.47	-25.371	PASS
	19	4881.25	-44.606	-20.94	-23.666	PASS
	39	2483.50	-52.391	-21.04	-31.351	PASS
		4958.66	-42.577	-21.04	-21.537	PASS

Test Graphs

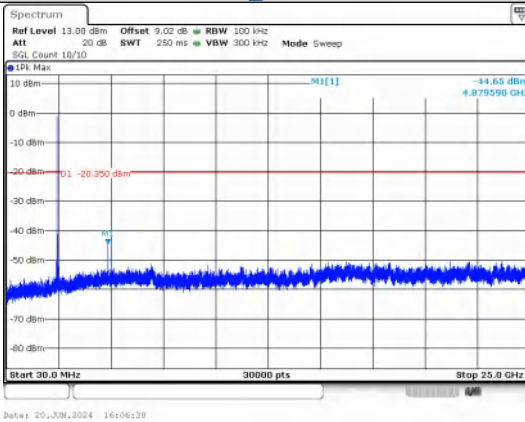




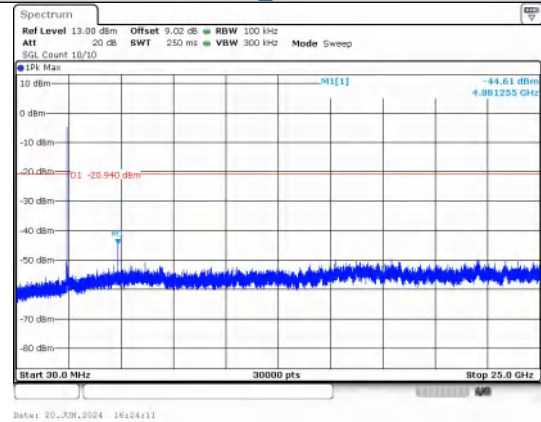
**Out Of Band Emission
BLE 1M_Channel 0**



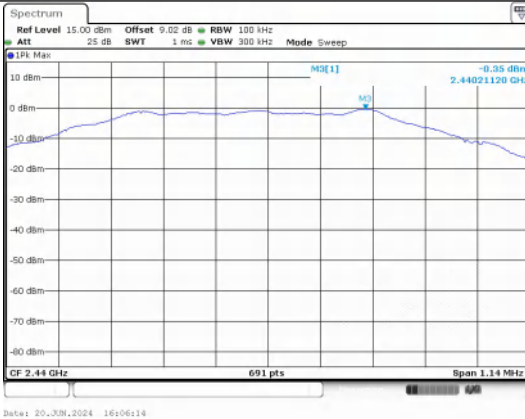
**Out Of Band Emission
BLE 2M_Channel 0**



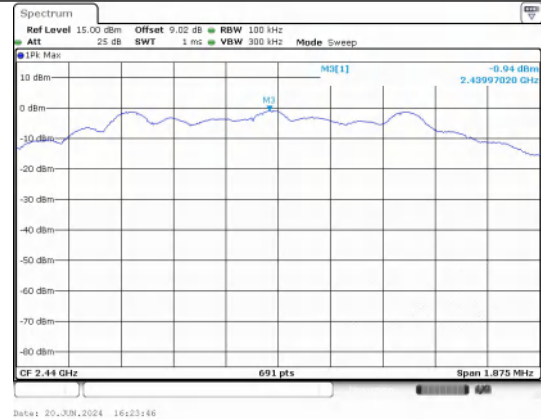
**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19**



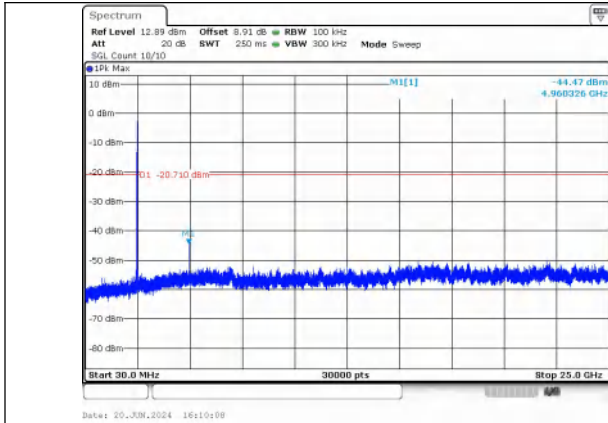
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19**



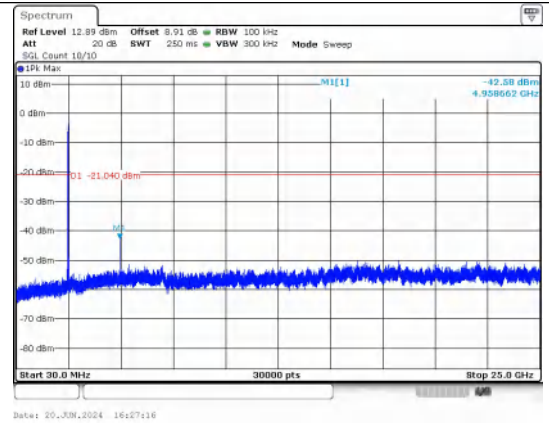
**In-Band Reference Level
BLE 1M_Channel 19**



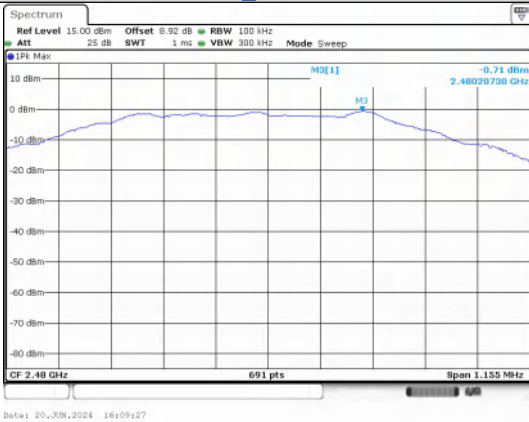
**In-Band Reference Level
BLE 2M_Channel 19**



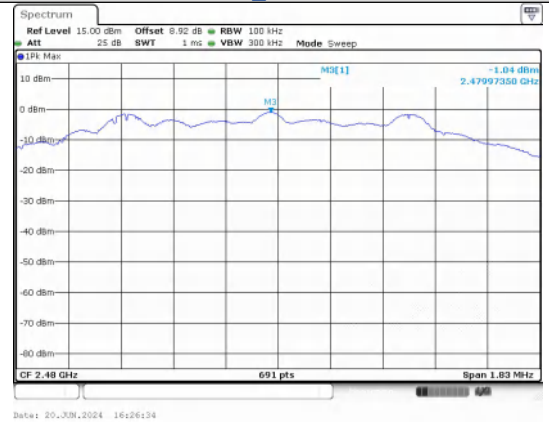
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



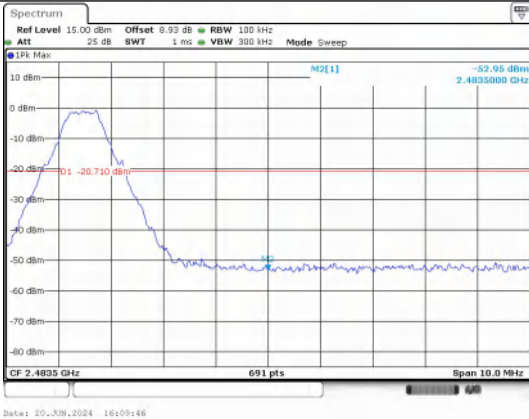
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39



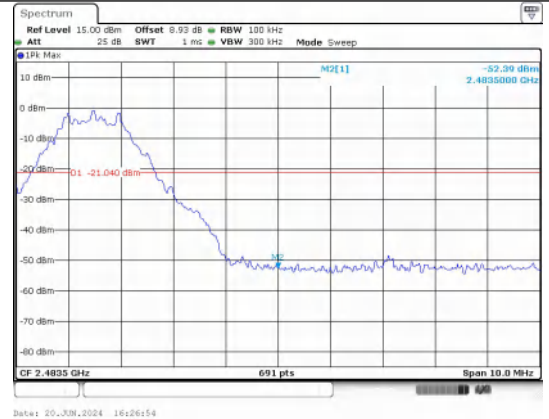
In-Band Reference Level
BLE 1M_Channel 39



In-Band Reference Level
BLE 2M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



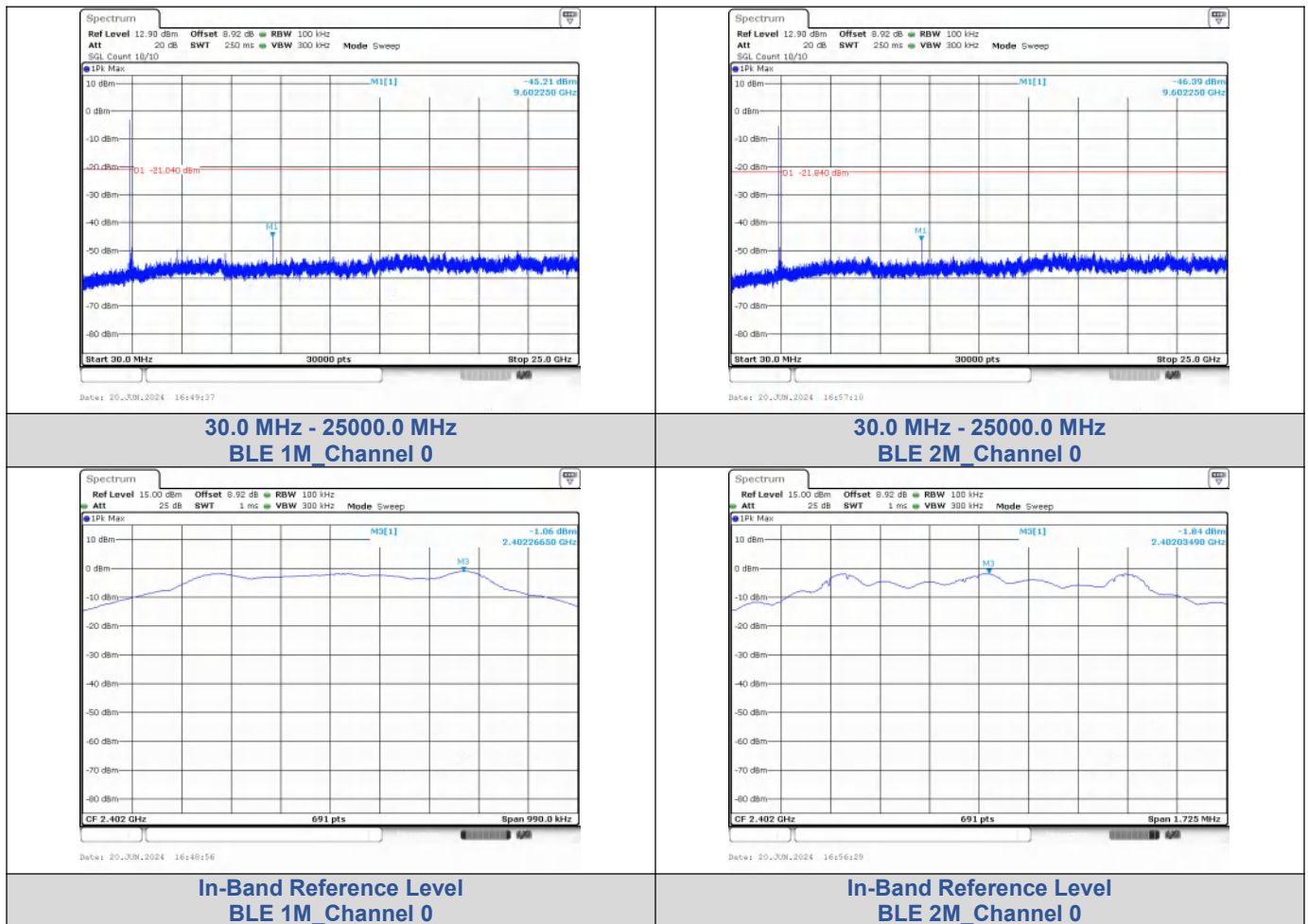
Out Of Band Emission
BLE 2M_Channel 39

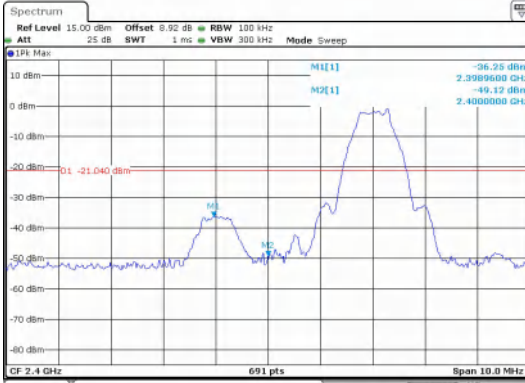
Right

Test Result

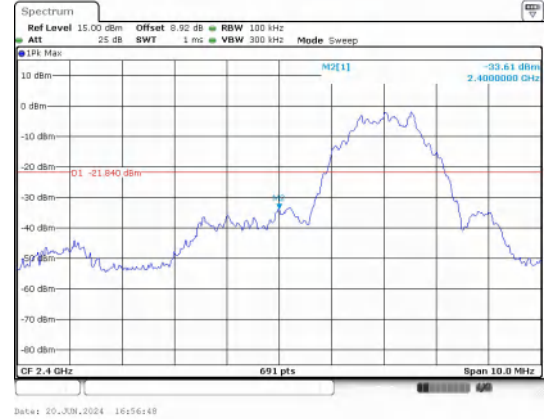
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.96	-36.255	-21.04	-15.215	PASS
		2400.00	-49.115	-21.04	-28.075	PASS
		9602.20	-45.214	-21.04	-24.174	PASS
	19	9753.73	-46.080	-21.02	-25.060	PASS
		2483.50	-49.743	-20.57	-29.173	PASS
		9914.37	-45.358	-20.57	-24.788	PASS
BLE 2M	0	2400.00	-33.611	-21.84	-11.771	PASS
		9602.25	-46.391	-21.84	-24.551	PASS
	19	9753.73	-46.668	-21.75	-24.918	PASS
		2483.50	-53.511	-21.39	-32.121	PASS
		9914.37	-45.628	-21.39	-24.238	PASS

Test Graphs

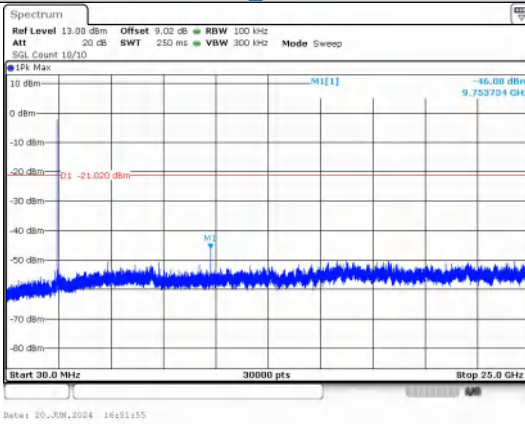




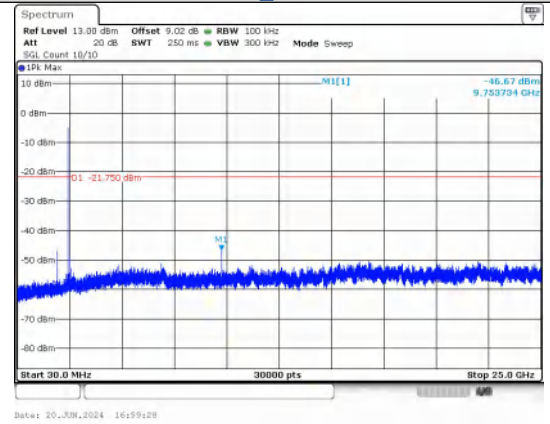
**Out Of Band Emission
BLE 1M_Channel 0**



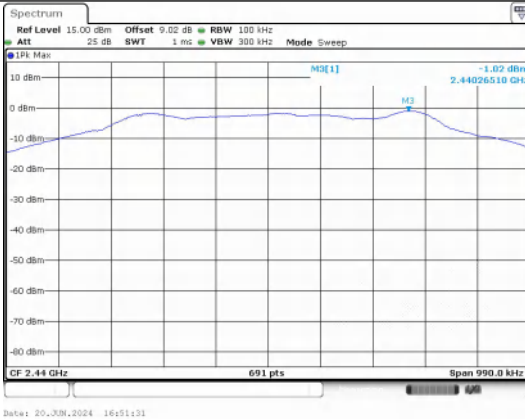
**Out Of Band Emission
BLE 2M_Channel 0**



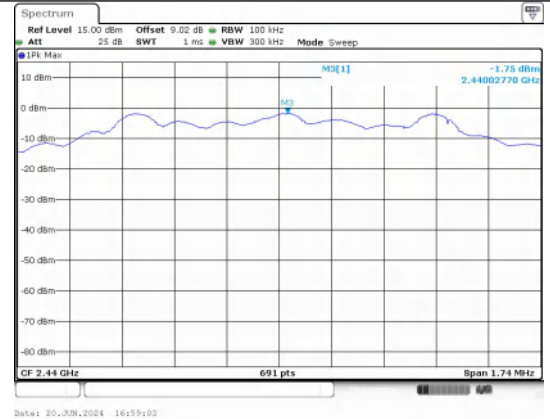
**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19**



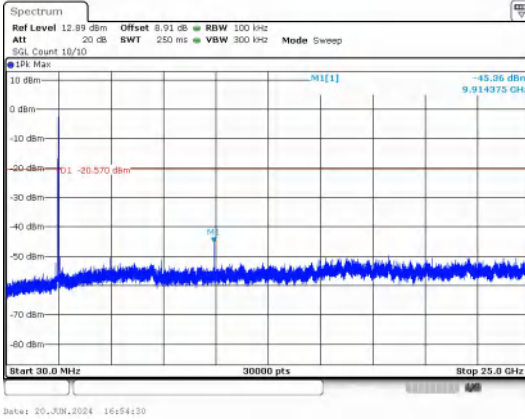
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19**



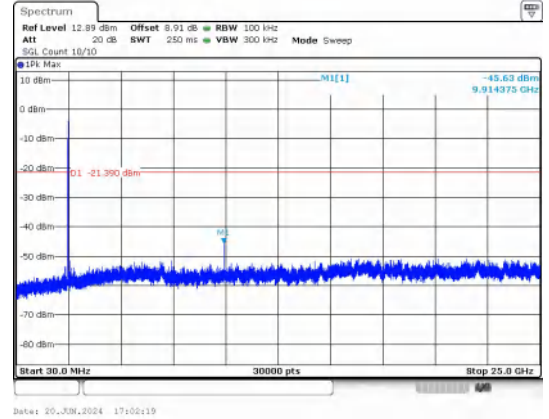
**In-Band Reference Level
BLE 1M_Channel 19**



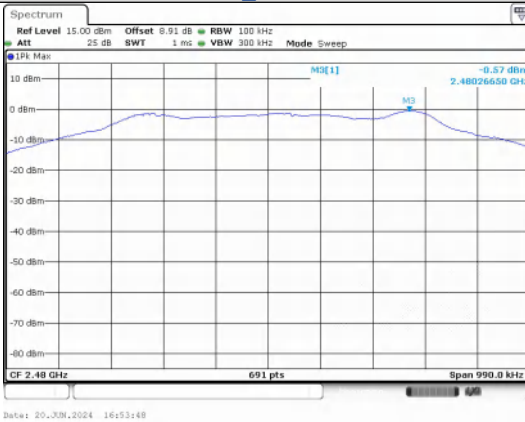
**In-Band Reference Level
BLE 2M_Channel 19**



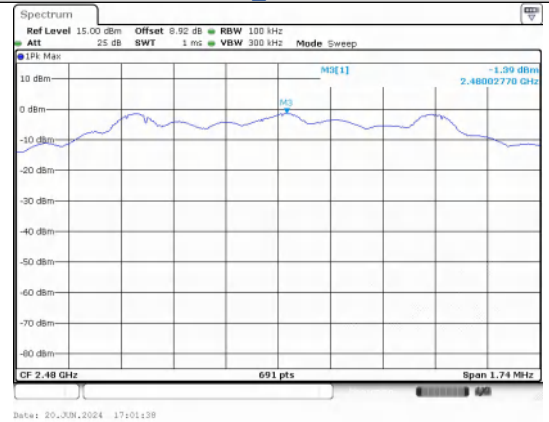
**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39**



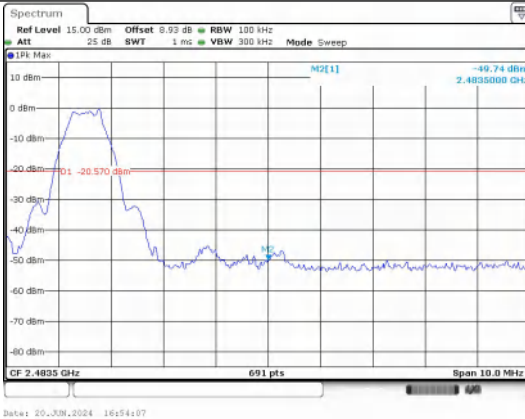
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39**



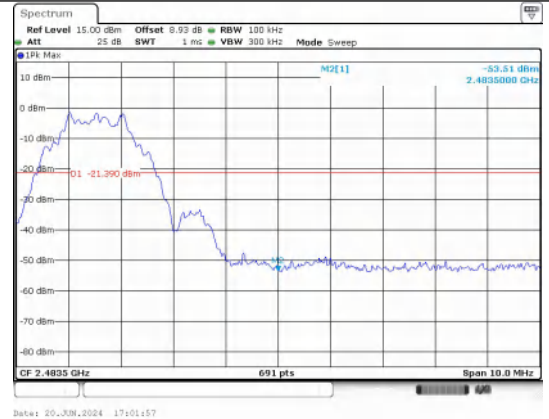
**In-Band Reference Level
BLE 1M_Channel 39**



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



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



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

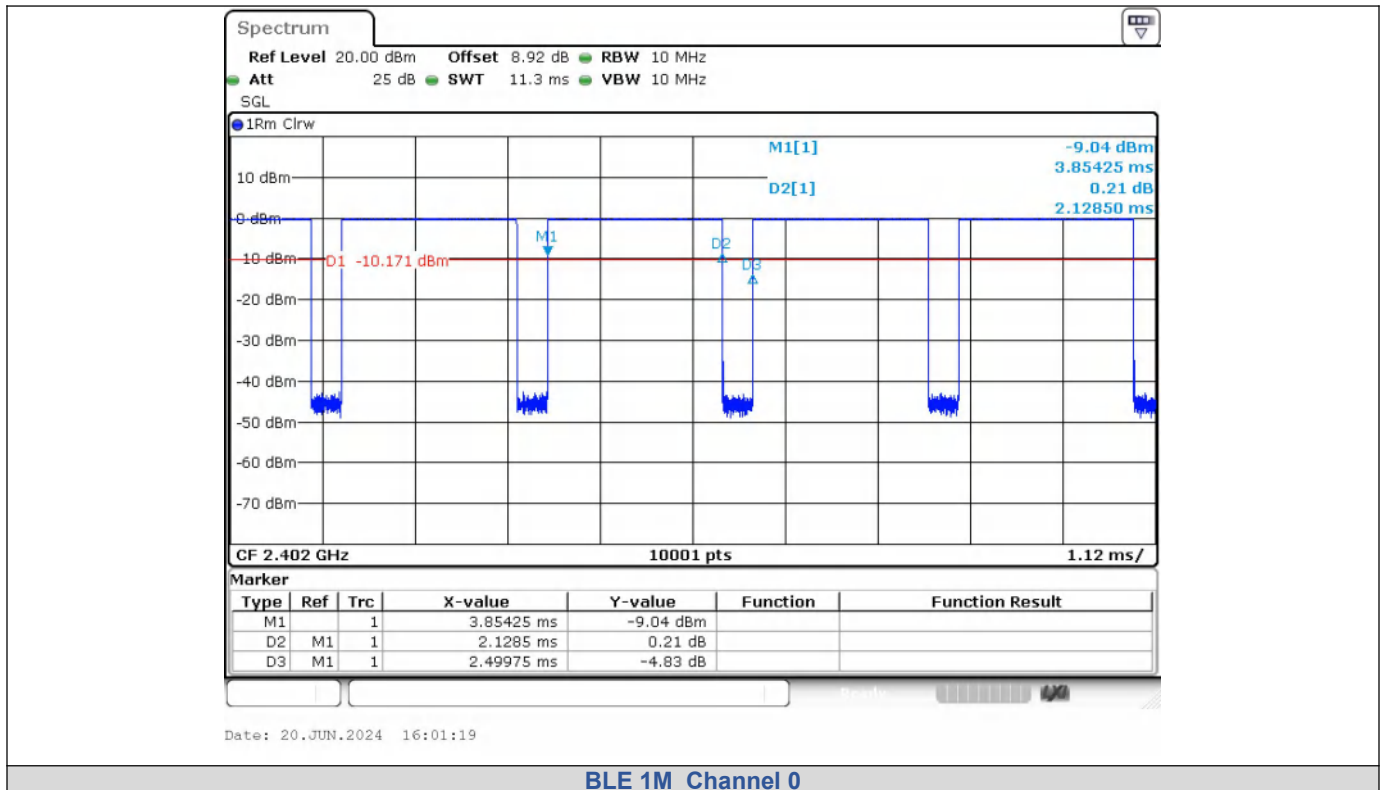
Duty Cycle

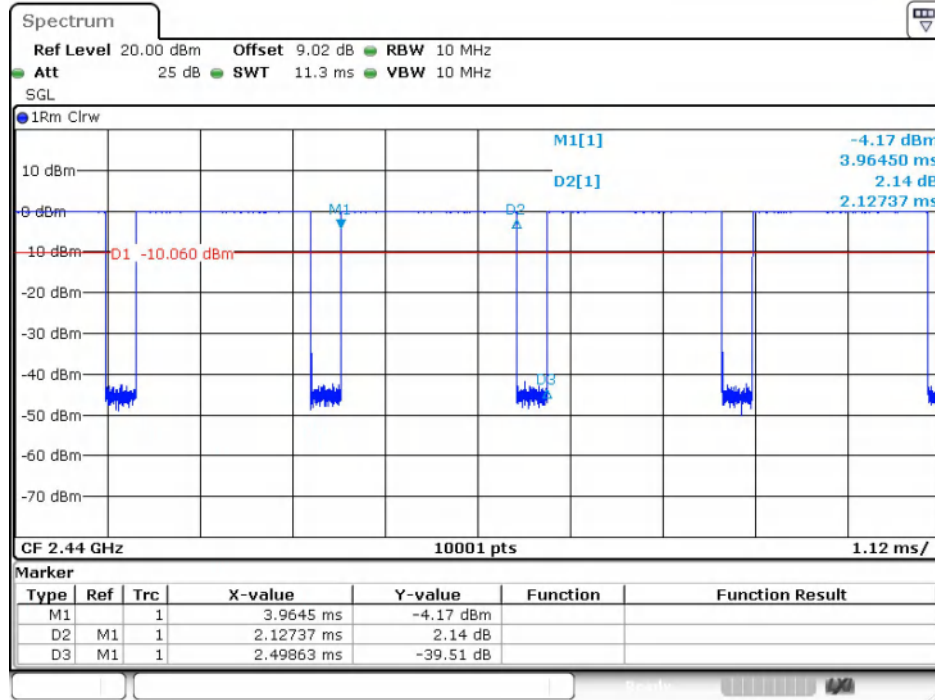
Left

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.129	2.500	85.15	0.8515	0.6982	0.47
	19	2.127	2.499	85.14	0.8514	0.6987	0.47
	39	2.127	2.499	85.14	0.8514	0.6987	0.47
BLE 2M	0	1.075	2.499	43.04	0.4304	3.6613	0.93
	19	1.075	2.499	43.04	0.4304	3.6613	0.93
	39	1.075	2.499	43.04	0.4304	3.6613	0.93

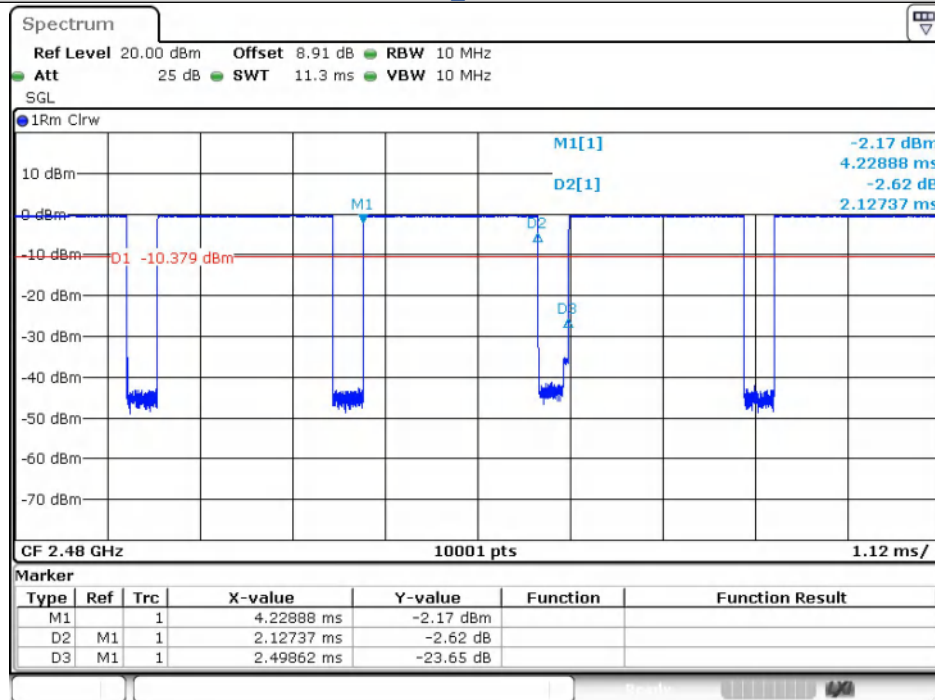
Test Graphs





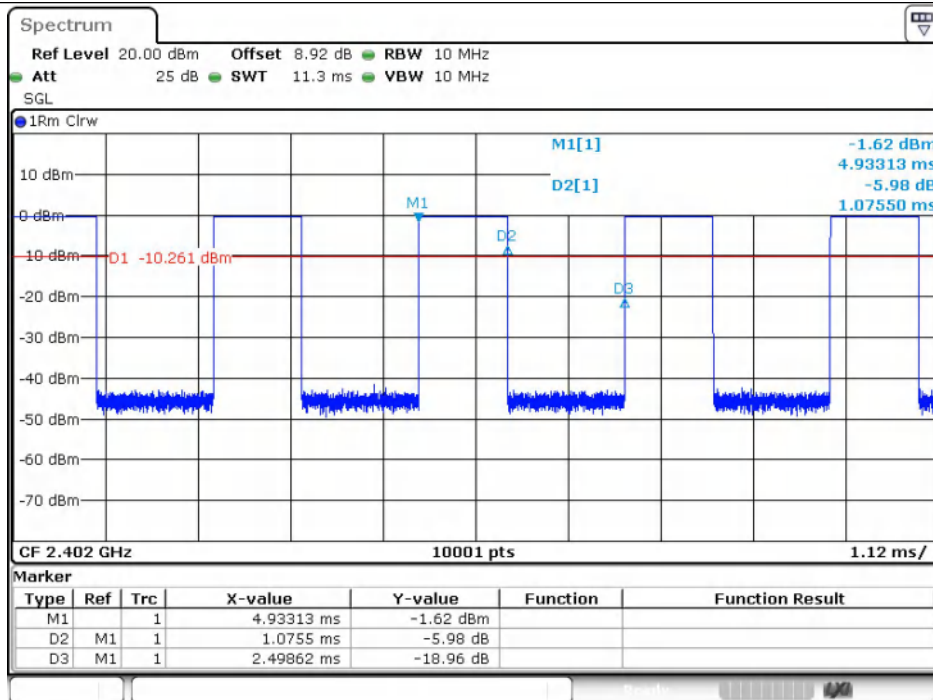
Date: 20.JUN.2024 16:04:55

BLE 1M_Channel 19



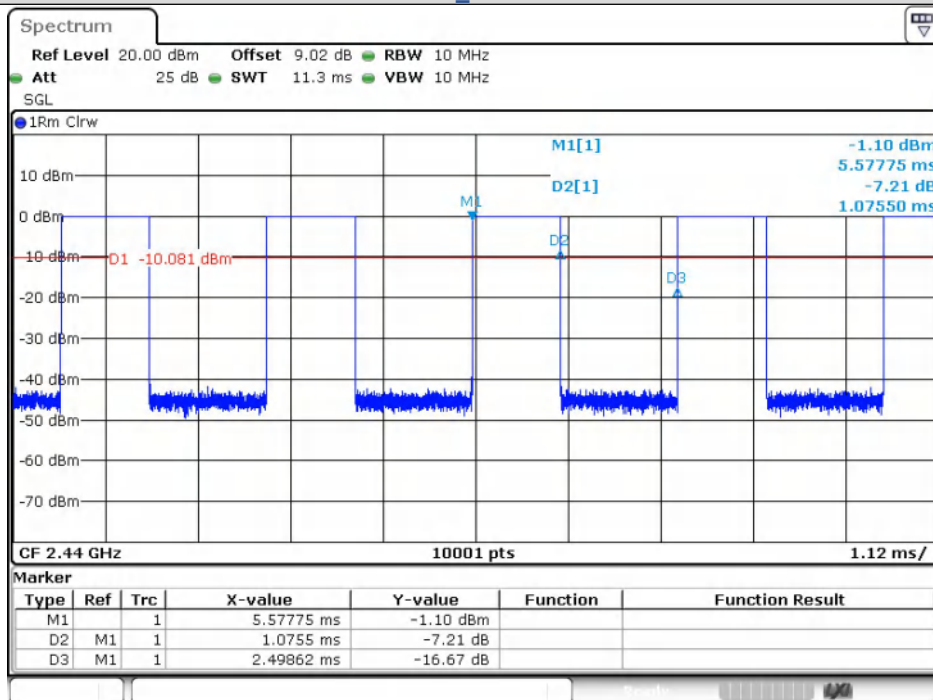
Date: 20.JUN.2024 16:08:08

BLE 1M_Channel 39



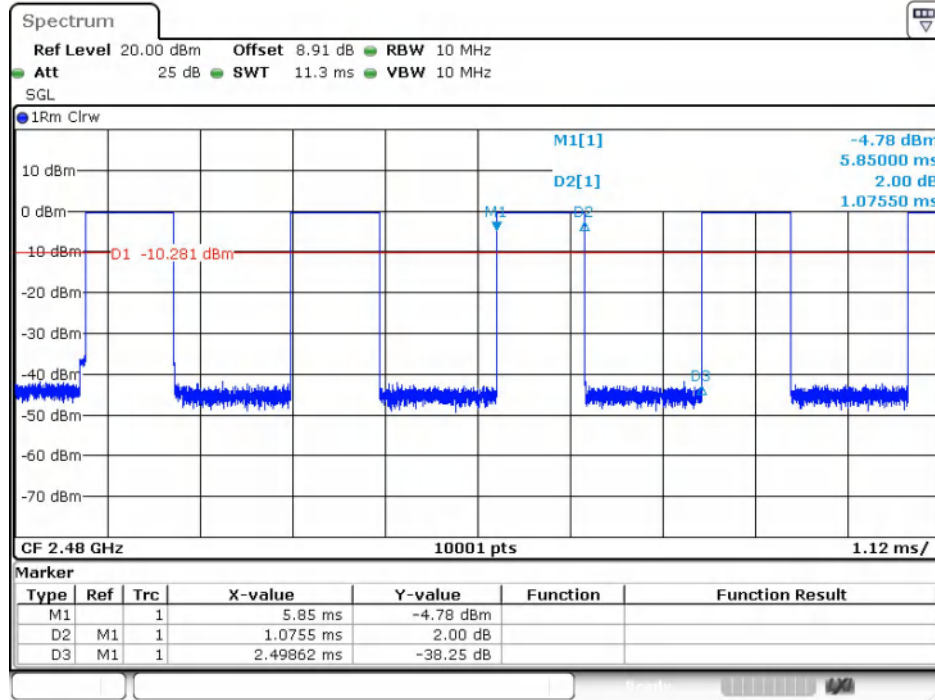
Date: 20.JUN.2024 16:19:52

BLE 2M_Channel 0



Date: 20.JUN.2024 16:28:08

BLE 2M_Channel 19



Date: 20.JUN.2024 16:25:15

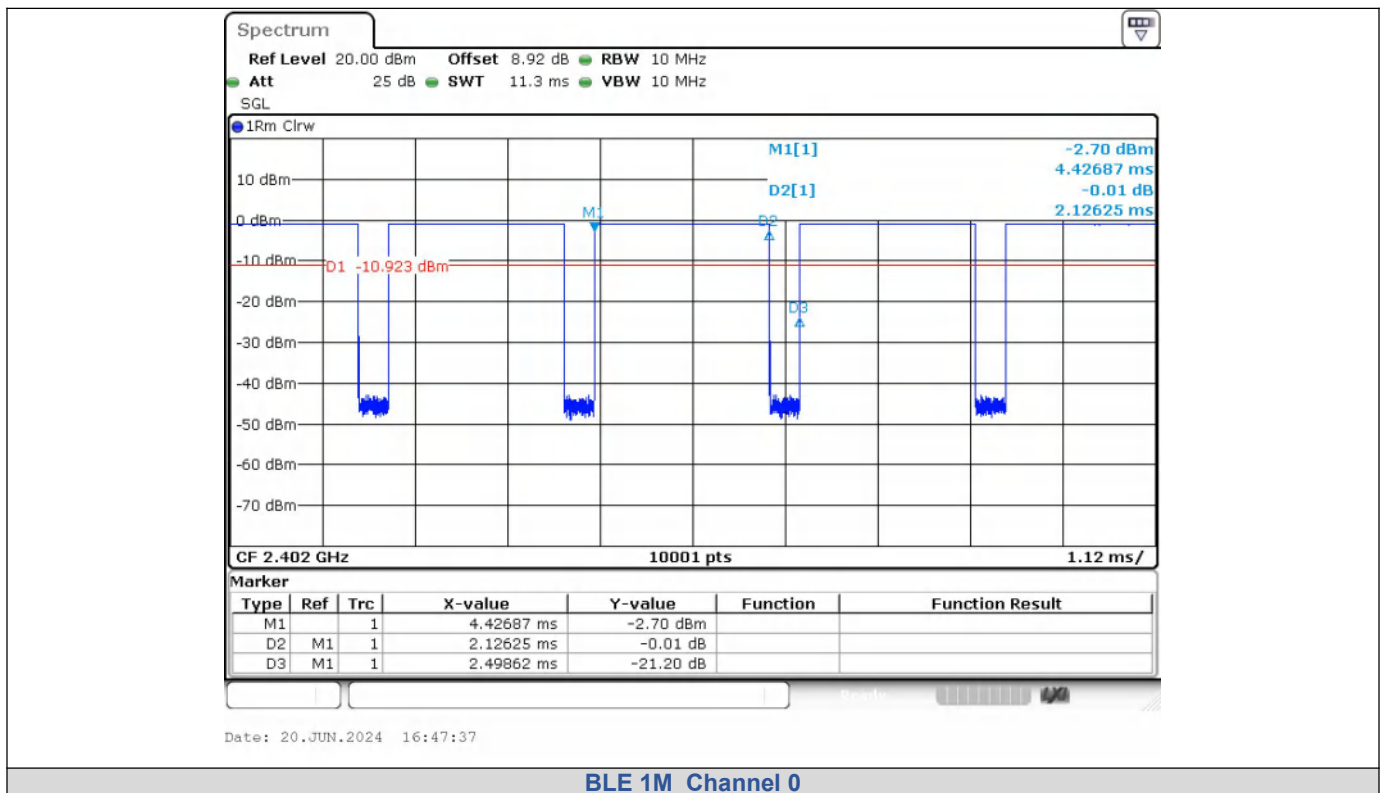
BLE 2M_Channel 39

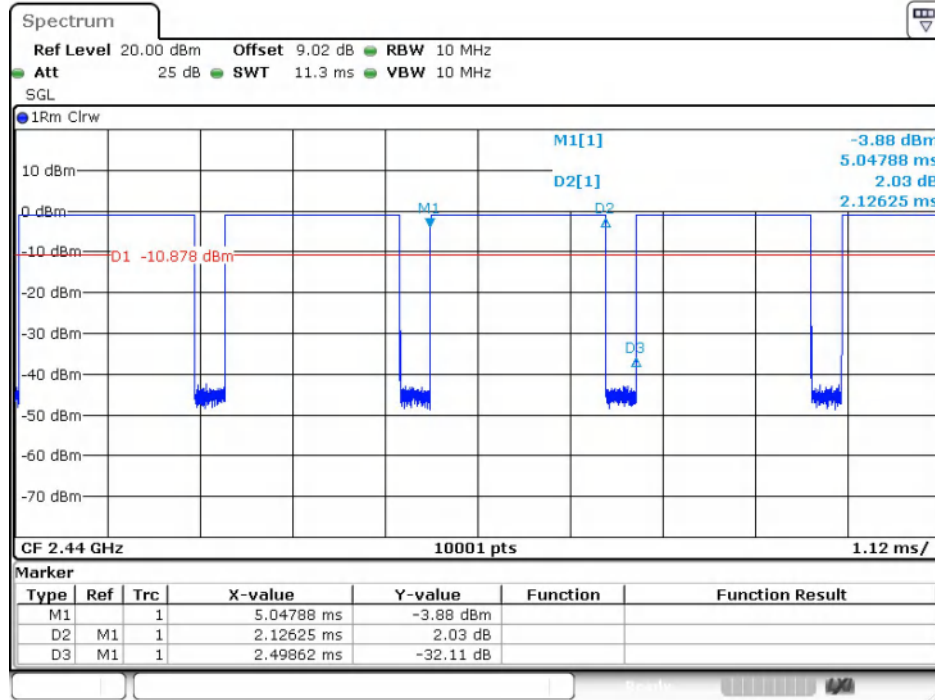
Right

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.126	2.499	85.10	0.8510	0.7007	0.47
	19	2.126	2.499	85.10	0.8510	0.7007	0.47
	39	2.126	2.499	85.10	0.8510	0.7007	0.47
BLE 2M	0	1.075	2.499	43.04	0.4304	3.6613	0.93
	19	1.075	2.500	43.02	0.4302	3.6633	0.93
	39	1.074	2.499	43.00	0.4300	3.6653	0.93

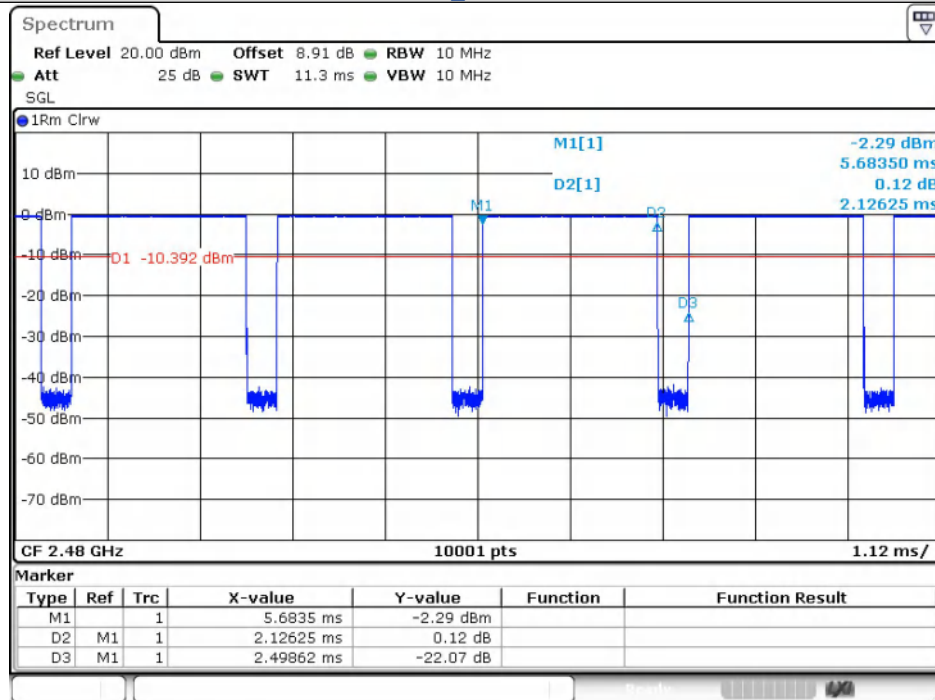
Test Graphs





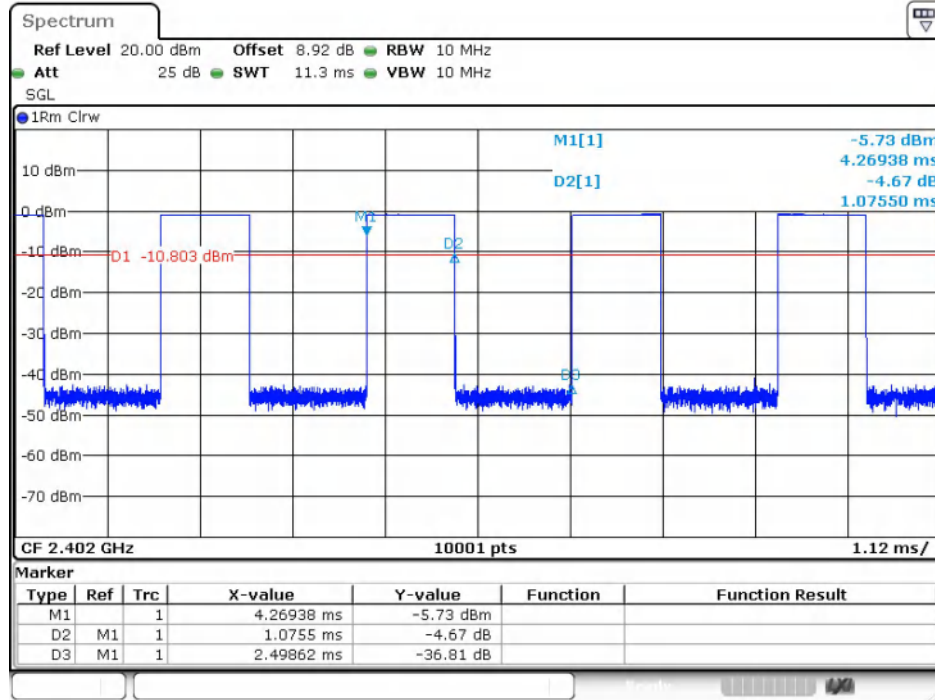
Date: 20.JUN.2024 16:50:12

BLE 1M_Channel 19



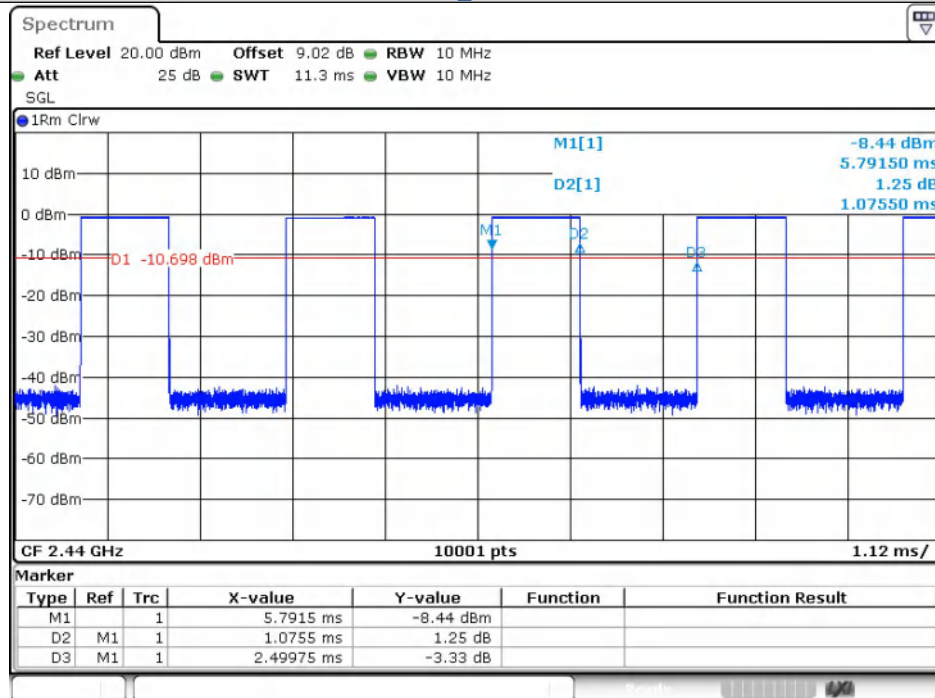
Date: 20.JUN.2024 16:52:29

BLE 1M_Channel 39



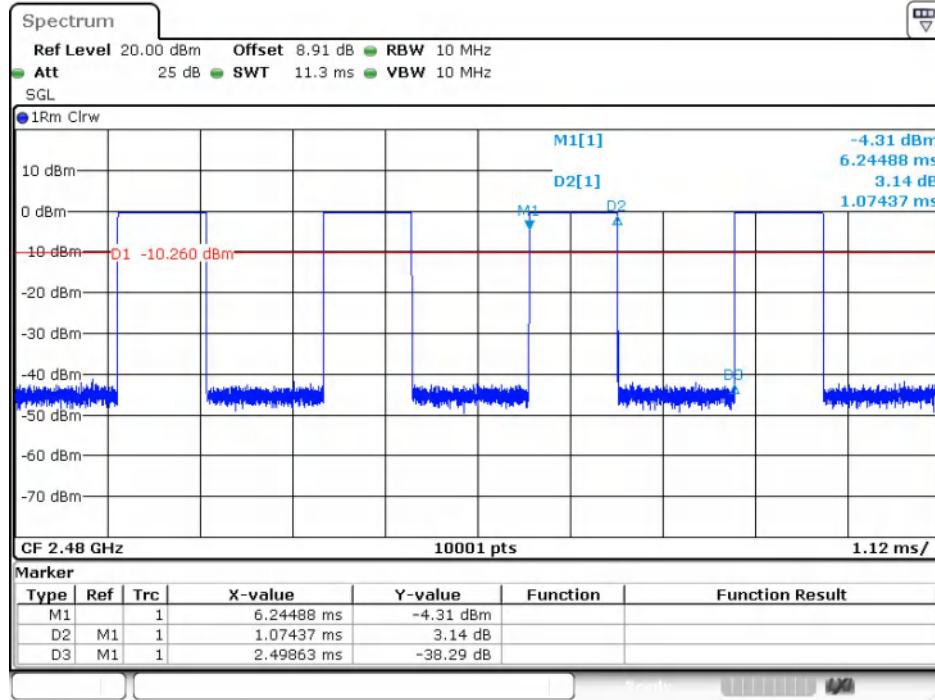
Date: 20.JUN.2024 16:55:09

BLE 2M_Channel 0



Date: 20.JUN.2024 16:57:44

BLE 2M_Channel 19



Date: 20.JUN.2024 17:00:19

BLE 2M_Channel 39

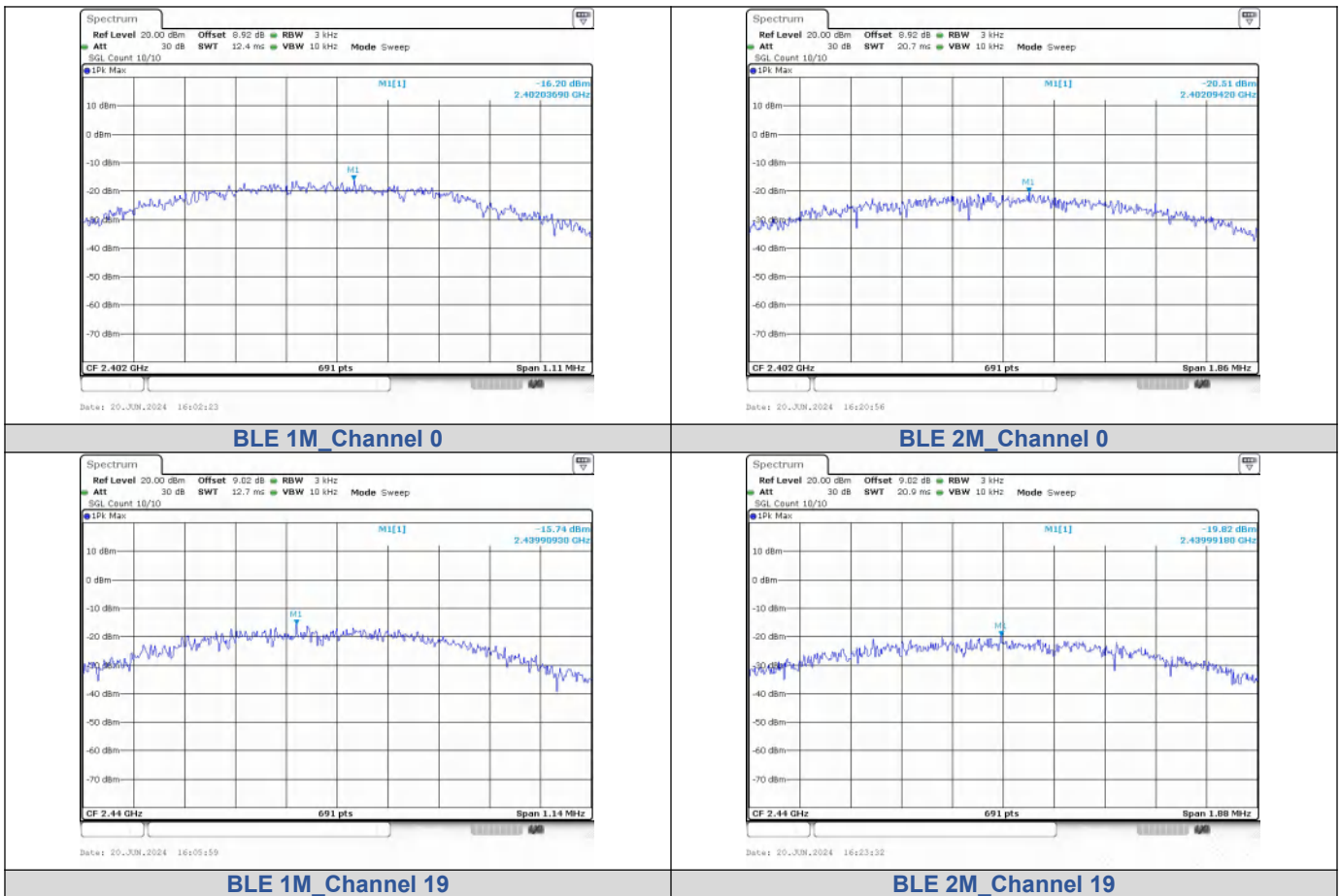
Power Spectral Density

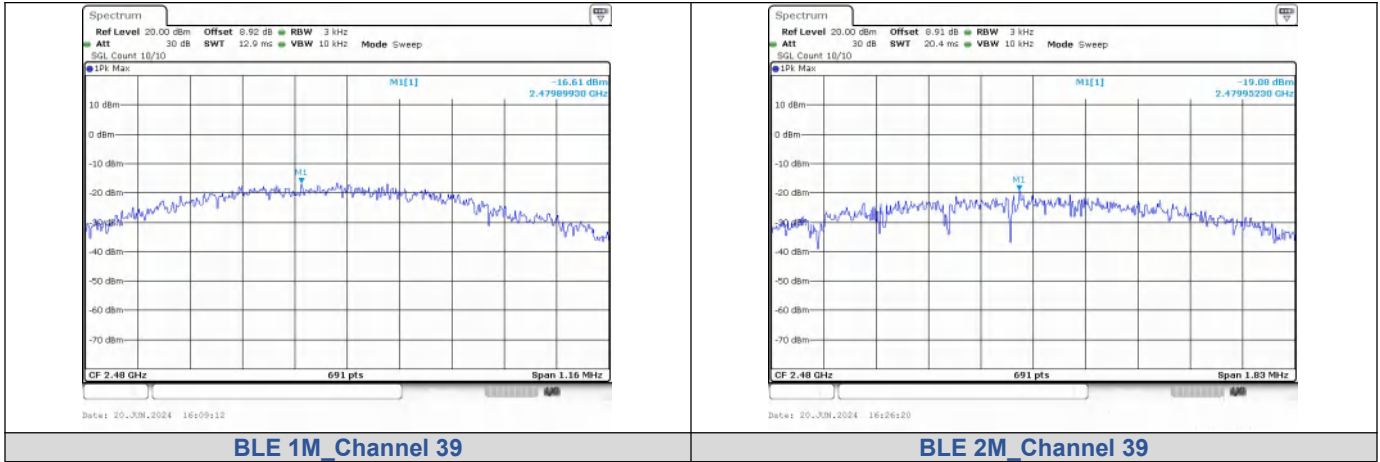
Left

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.195	≤8	PASS
BLE 1M	19	-15.738	≤8	PASS
BLE 1M	39	-16.610	≤8	PASS
BLE 2M	0	-20.509	≤8	PASS
BLE 2M	19	-19.818	≤8	PASS
BLE 2M	39	-19.076	≤8	PASS

Test Graphs





Right Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.729	≤8	PASS
BLE 1M	19	-18.065	≤8	PASS
BLE 1M	39	-16.967	≤8	PASS
BLE 2M	0	-21.305	≤8	PASS
BLE 2M	19	-15.520	≤8	PASS
BLE 2M	39	-19.900	≤8	PASS

Test Graphs

