

Appendix B

Report No.:	CISRR24032311302
FCC ID:	2BFK3-FREEM1
Product Name:	Smart Bluetooth Hearing Aid (ITE)
Model No.:	FREE M1
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	2.168	1.65	30	PASS
	19	1.964	1.57	30	PASS
	39	2.406	1.74	30	PASS

Right

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	2.480	1.770	30	PASS
	19	2.474	1.768	30	PASS
	39	1.380	1.374	30	PASS

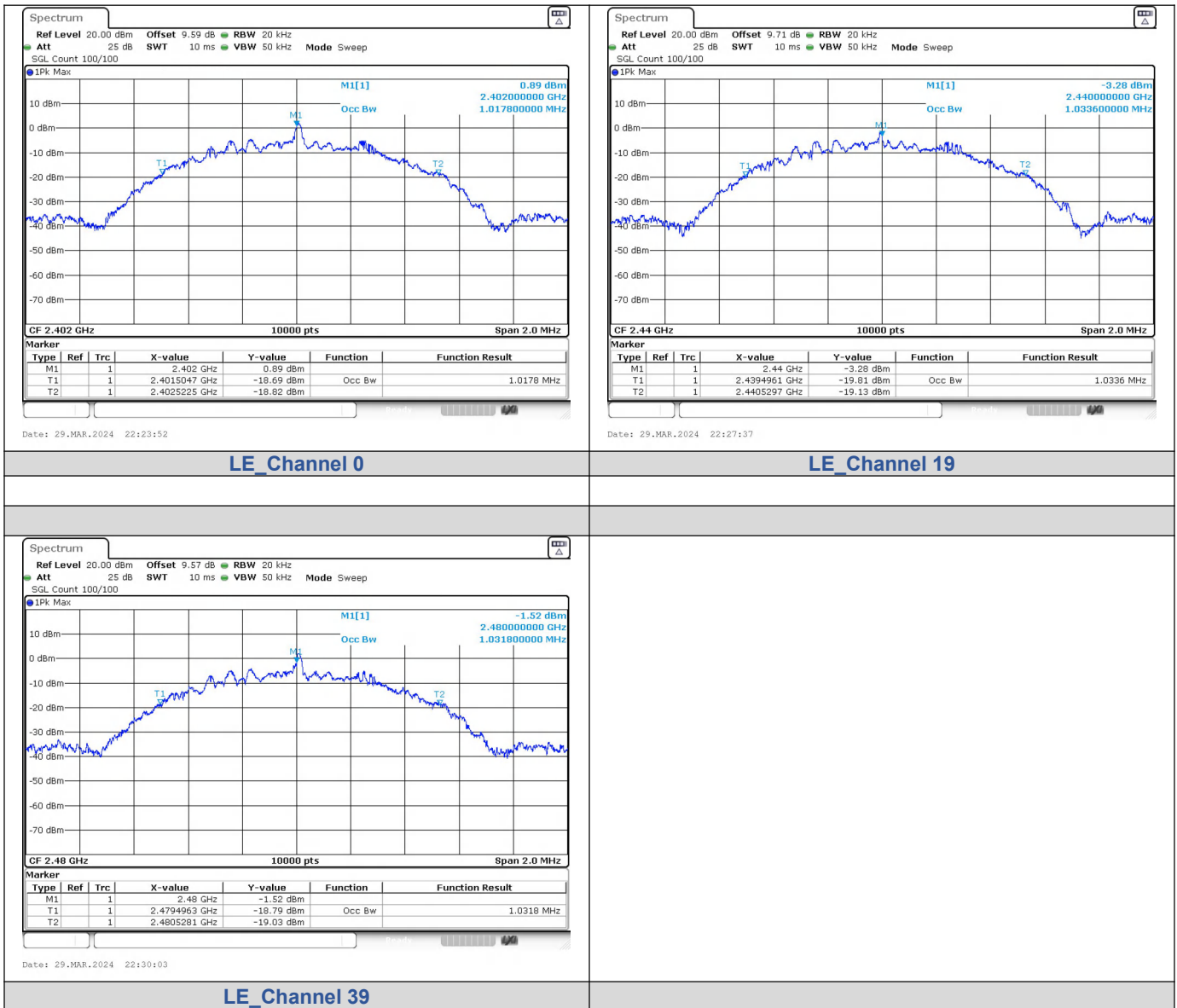
99% Bandwidth

Left

Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0180
LE	19	1.0340
LE	39	1.0320

Test Graphs

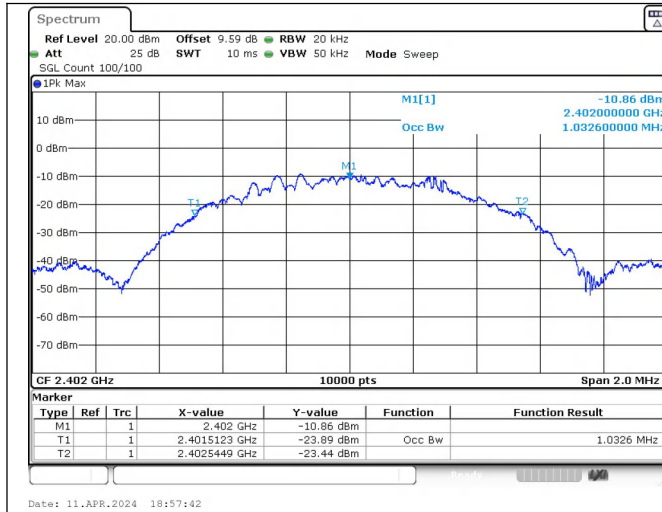


Right

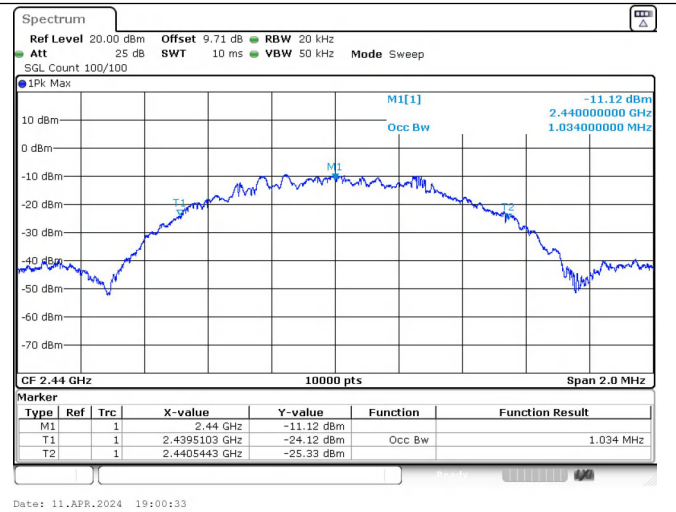
Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0330
LE	19	1.0340
LE	39	1.0330

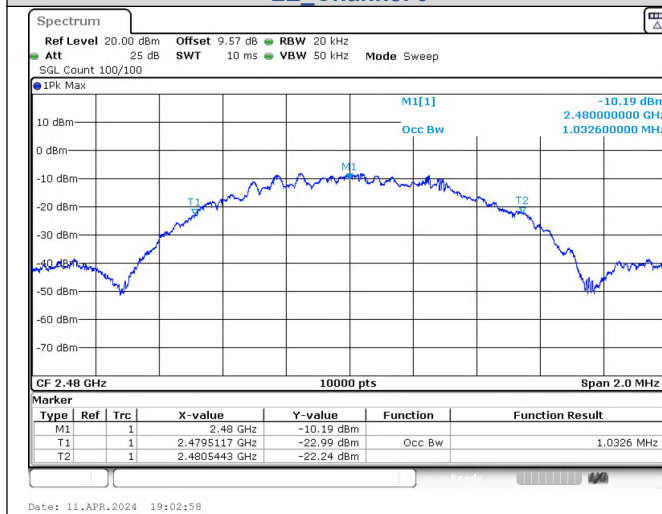
Test Graphs



LE_Channel 0



LE_Channel 19



LE_Channel 39

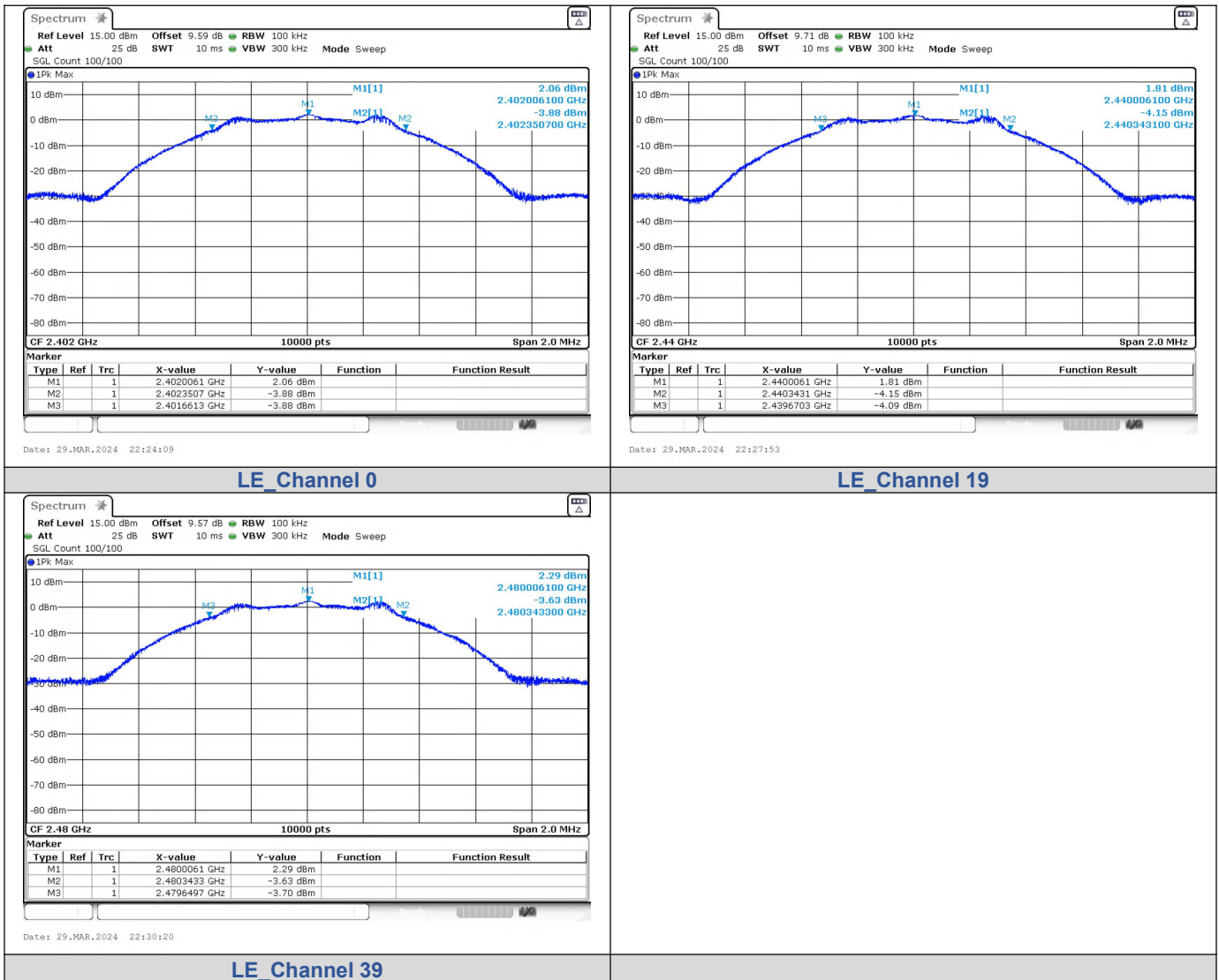
6dB Bandwidth

Left

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.6900	0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6900		PASS

Test Graphs

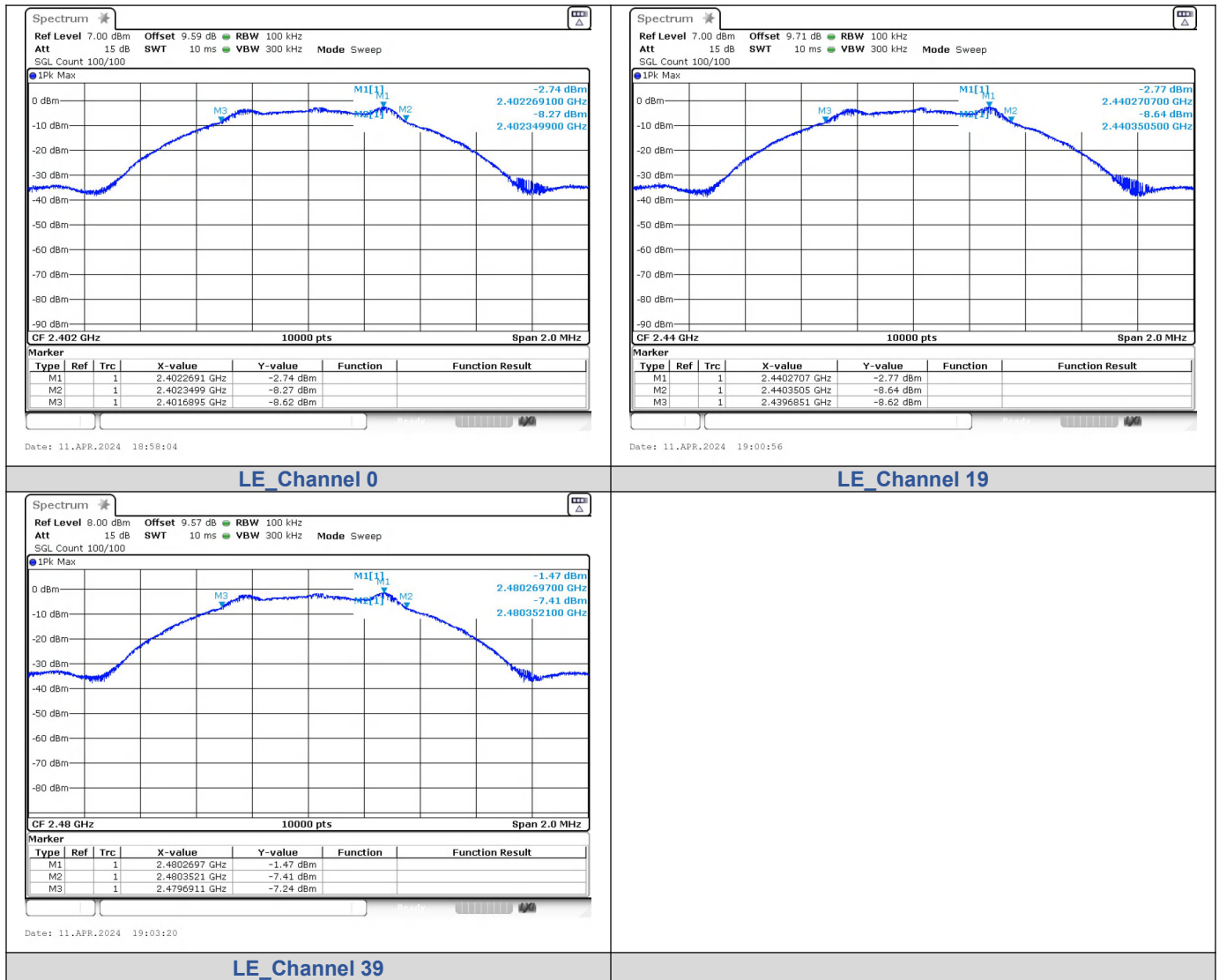


Right

Test Result

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

Test Graphs



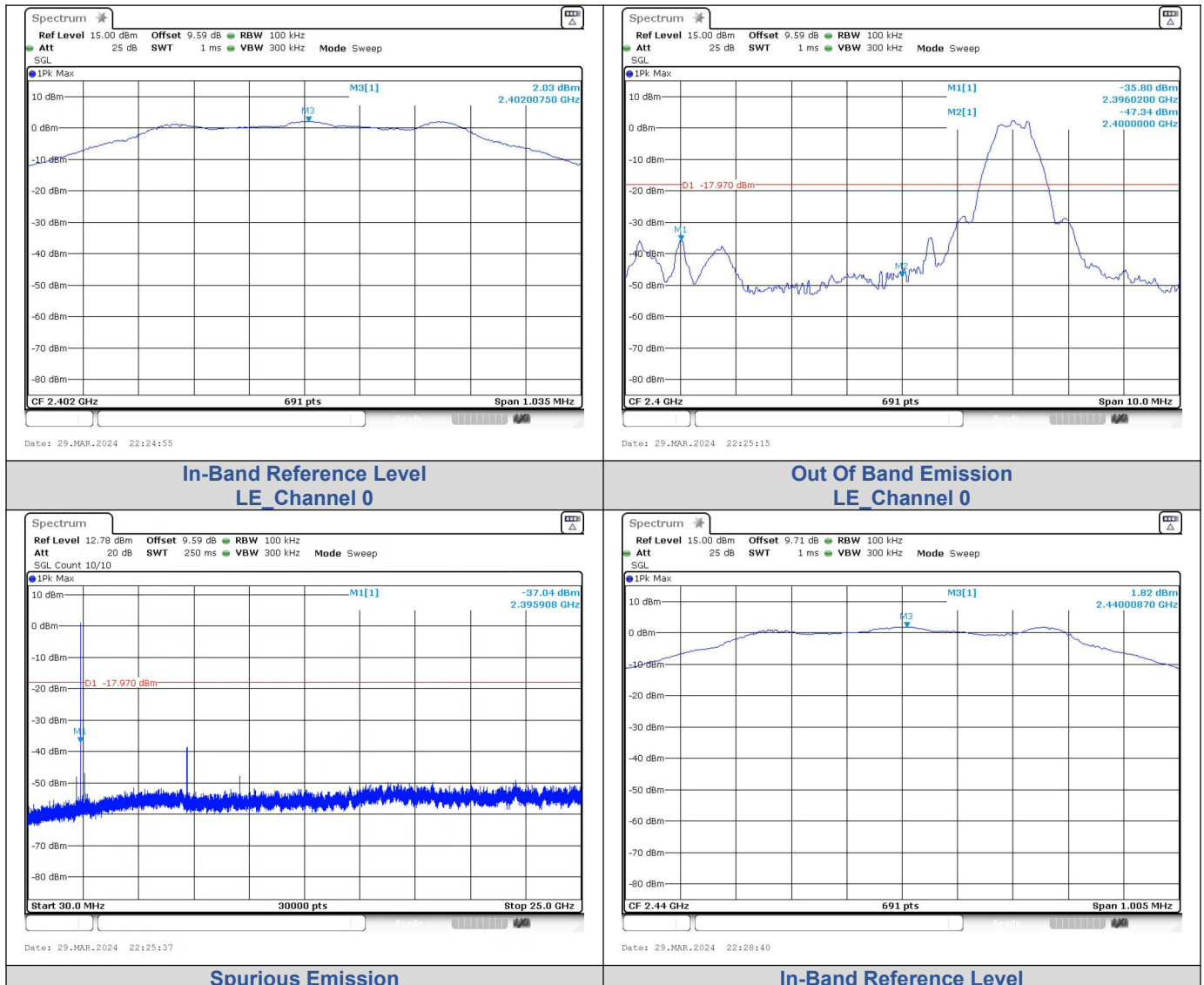
Conducted Out Of Band Emission

Left

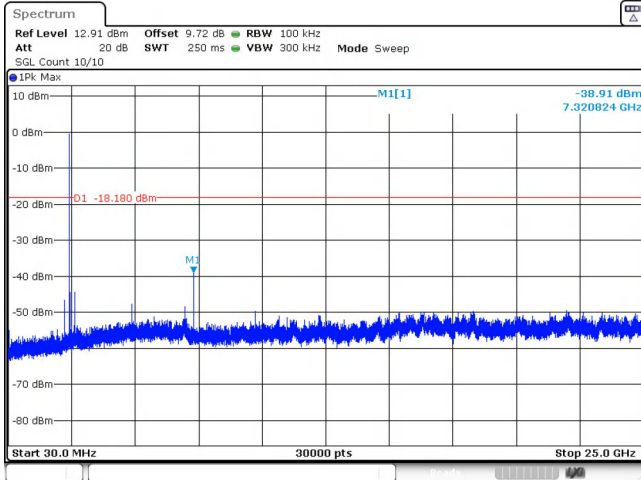
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-47.345	-17.97	-29.375	PASS
		2396.02	-35.801	-17.97	-17.831	PASS
		2395.90	-37.035	-17.97	-19.065	PASS
	19	7320.82	-38.909	-18.18	-20.729	PASS
		2483.50	-46.198	-17.7	-28.498	PASS
		7439.02	-39.309	-17.7	-21.609	PASS
	39	7441.51	-43.063	-17.58	-25.483	PASS

Test Graphs

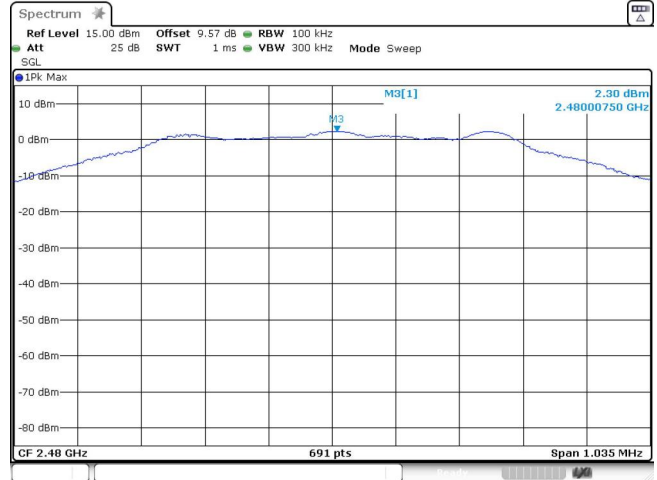


LE_Channel 0



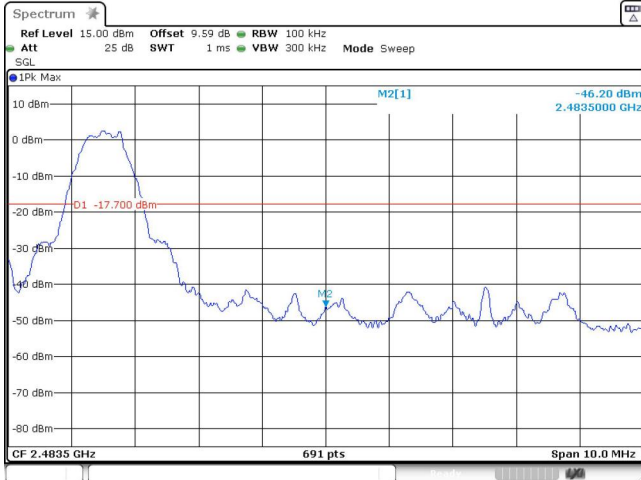
Date: 29.MAR.2024 22:29:04

LE_Channel 19



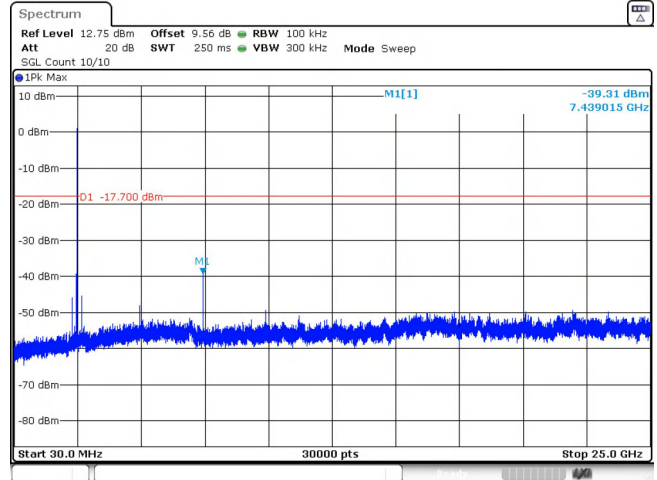
Date: 29.MAR.2024 22:31:06

Spurious Emissions LE_Channel 19



Date: 29.MAR.2024 22:31:26

In-Band Reference Level LE_Channel 39



Date: 29.MAR.2024 22:31:49

Out Of Band Emission LE_Channel 39

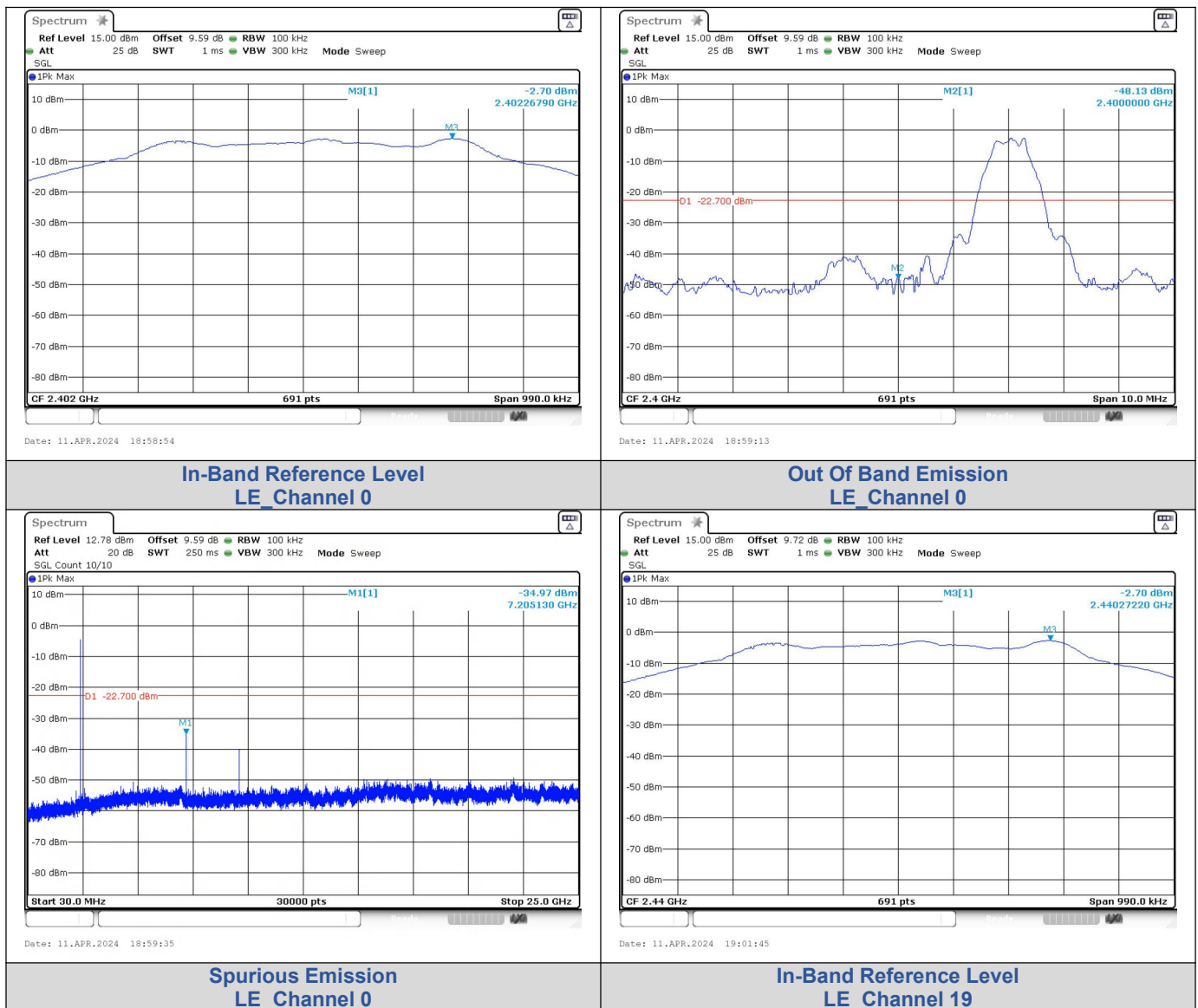
Spurious Emission LE_Channel 39

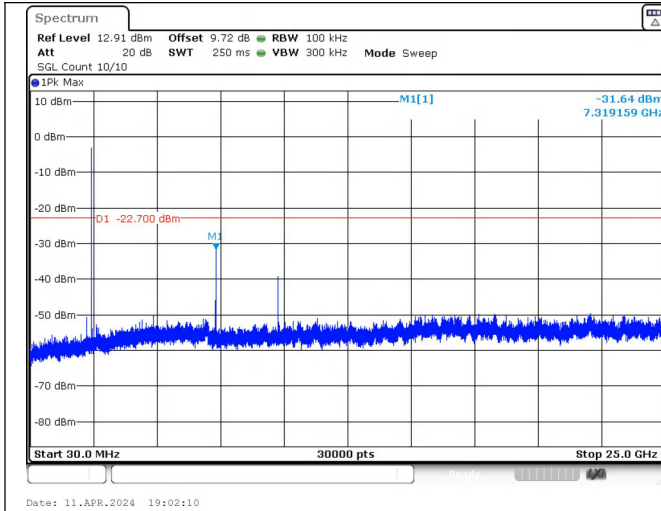
Right

Test Result

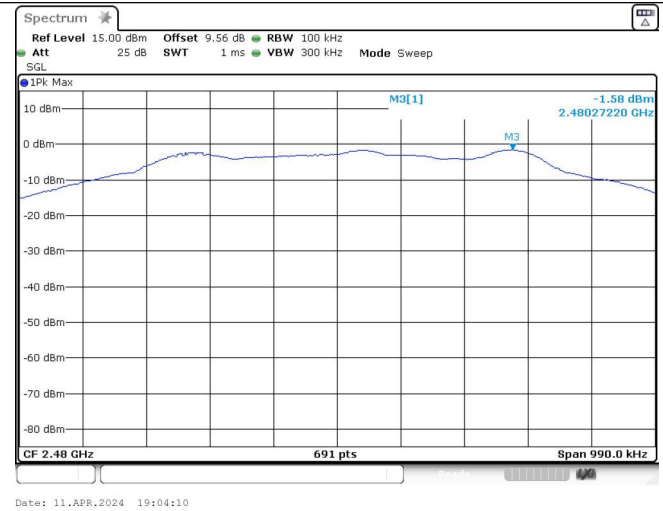
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-48.132	-22.7	-25.432	PASS
		2399.00	-40.984	-22.7	-18.284	PASS
		7205.10	-34.970	-22.7	-12.270	PASS
	19	7319.16	-31.642	-22.7	-8.942	PASS
	39	2483.50	-51.304	-21.58	-29.724	PASS
		7439.85	-34.804	-21.58	-13.224	PASS

Test Graphs

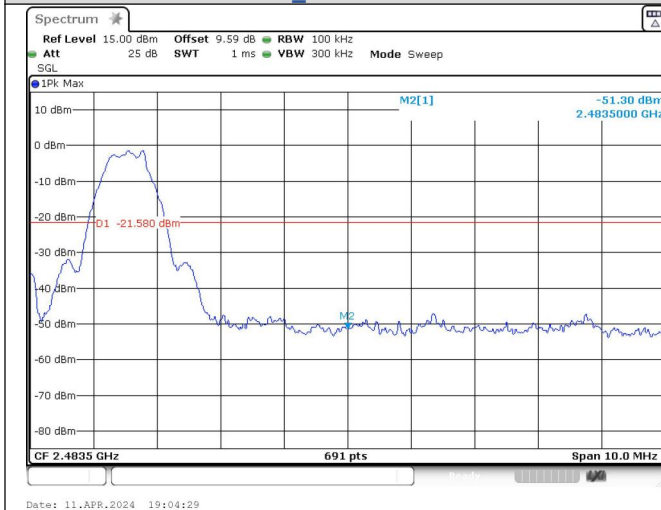




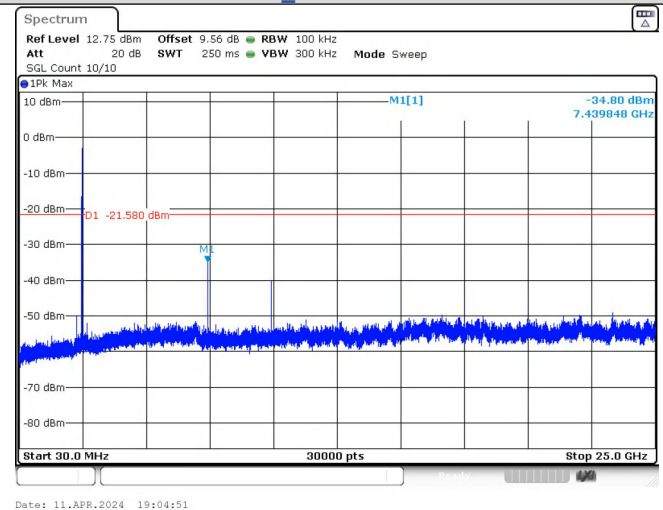
**Spurious Emissions
LE_Channel 19**



**In-Band Reference Level
LE_Channel 39**



**Out Of Band Emission
LE_Channel 39**



**Spurious Emission
LE_Channel 39**

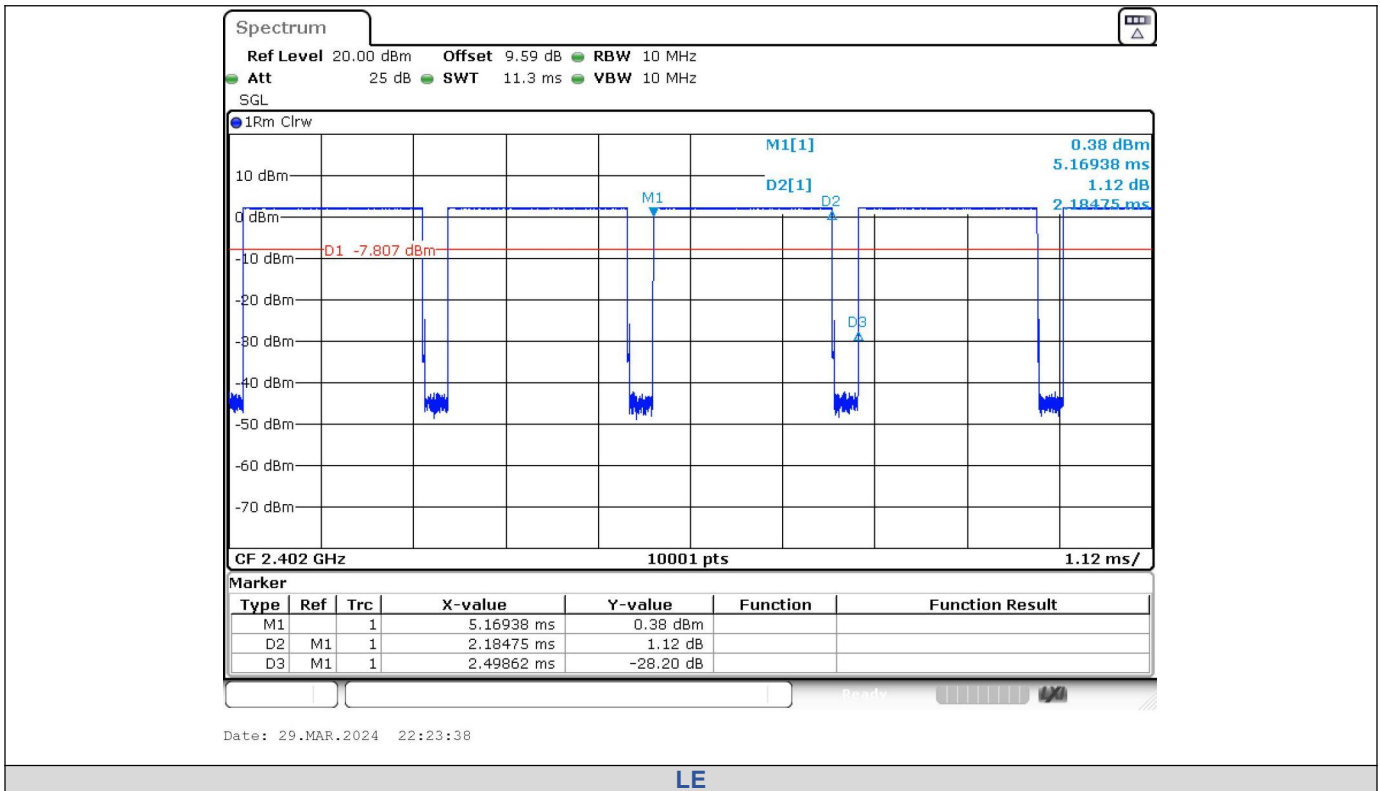
Duty Cycle

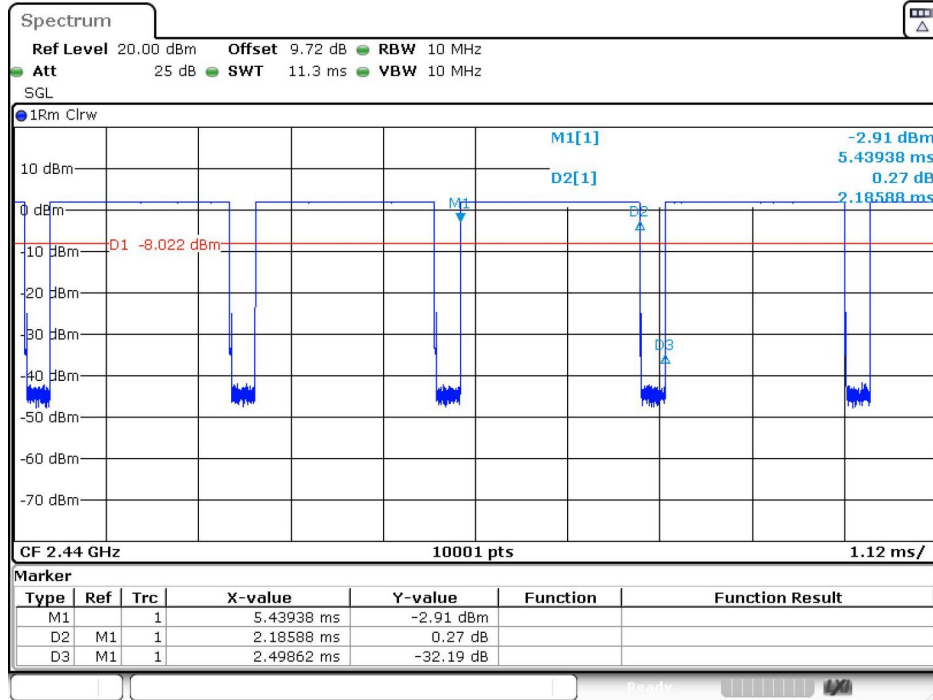
Left

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
LE	0	2.185	2.499	87.44	0.8744	0.5829	0.46
	19	2.186	2.499	87.48	0.8748	0.5809	0.46
	39	2.186	2.499	87.48	0.8748	0.5809	0.46

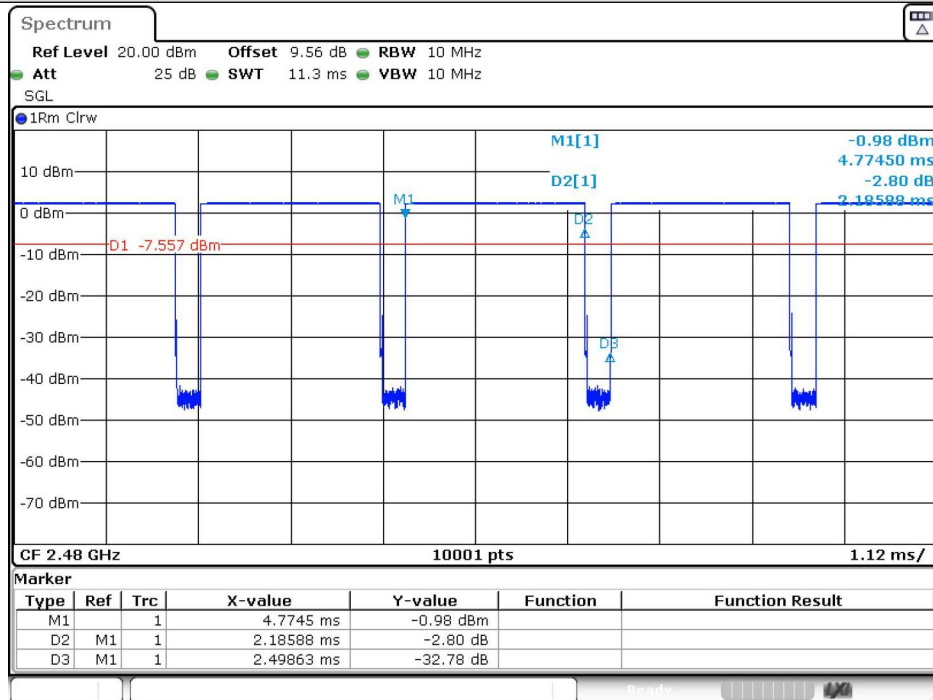
Test Graphs





Date: 29.MAR.2024 22:27:22

LE



Date: 29.MAR.2024 22:29:49

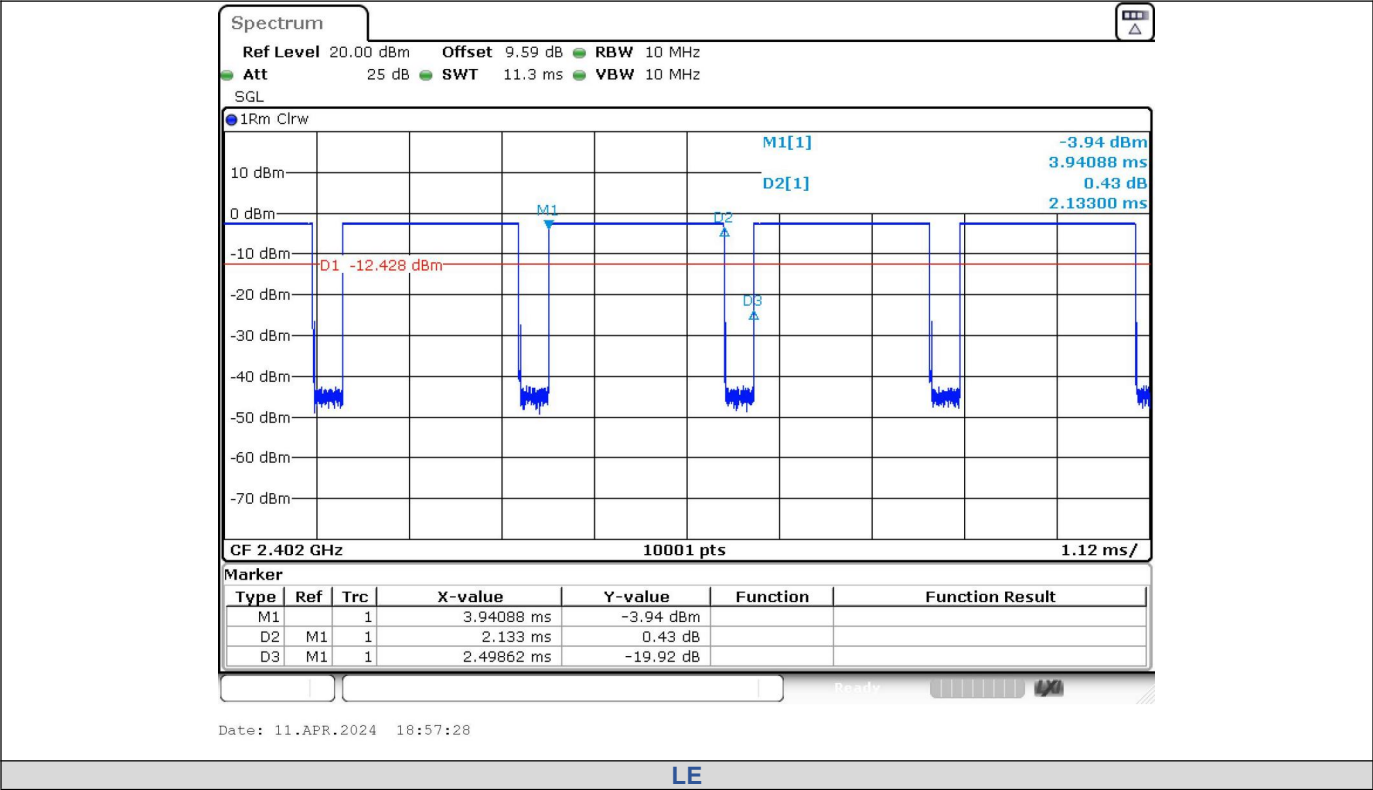
LE

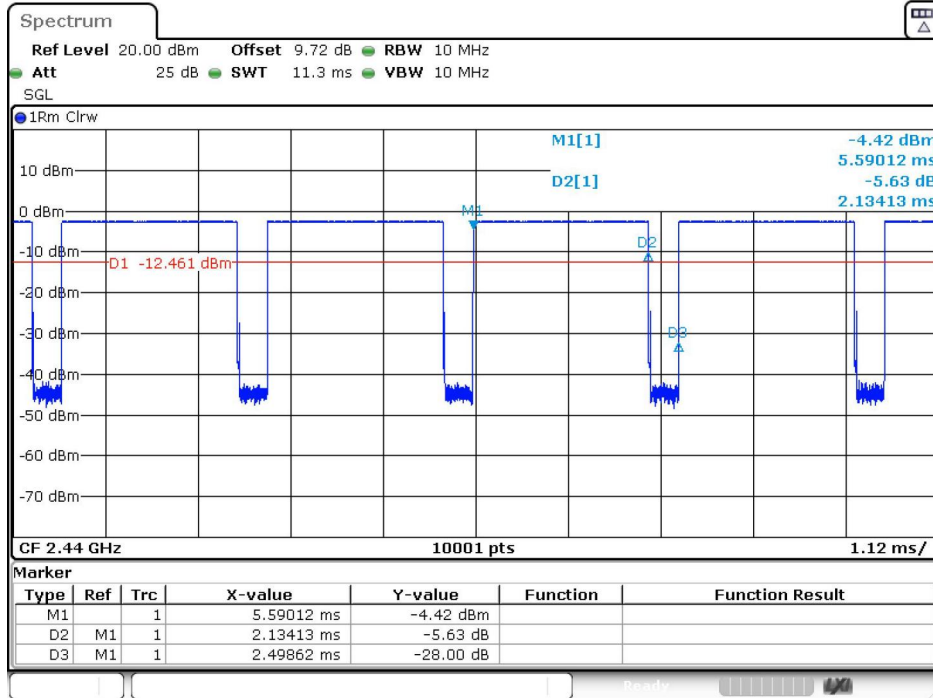
Right

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	2.134	2.499	85.41	0.8541	0.6849	0.47
	39	2.134	2.500	85.37	0.8537	0.6869	0.47

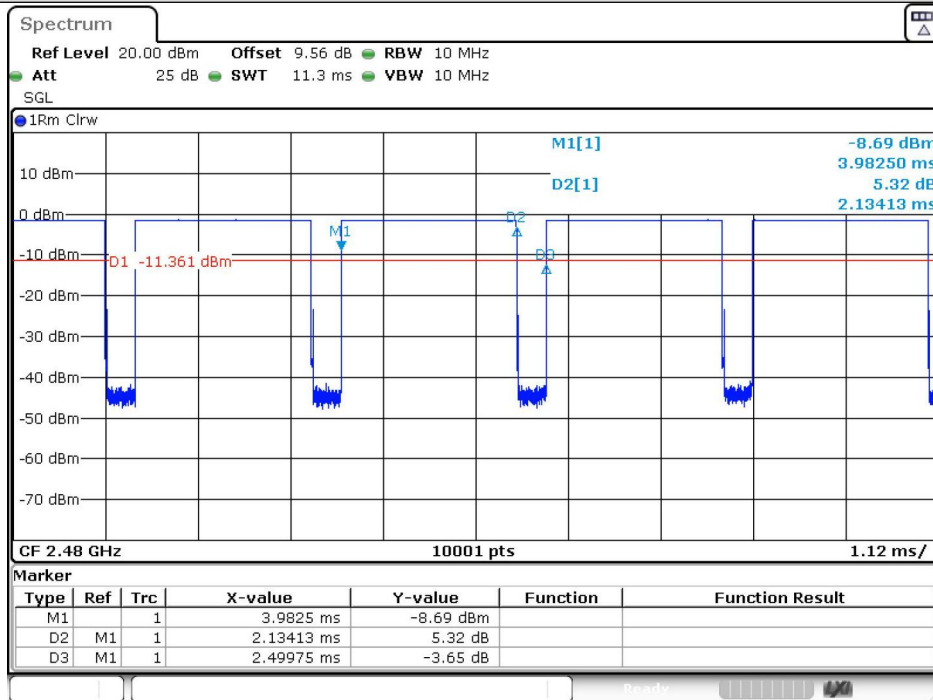
Test Graphs





Date: 11.APR.2024 19:00:19

LE



Date: 11.APR.2024 19:02:44

LE

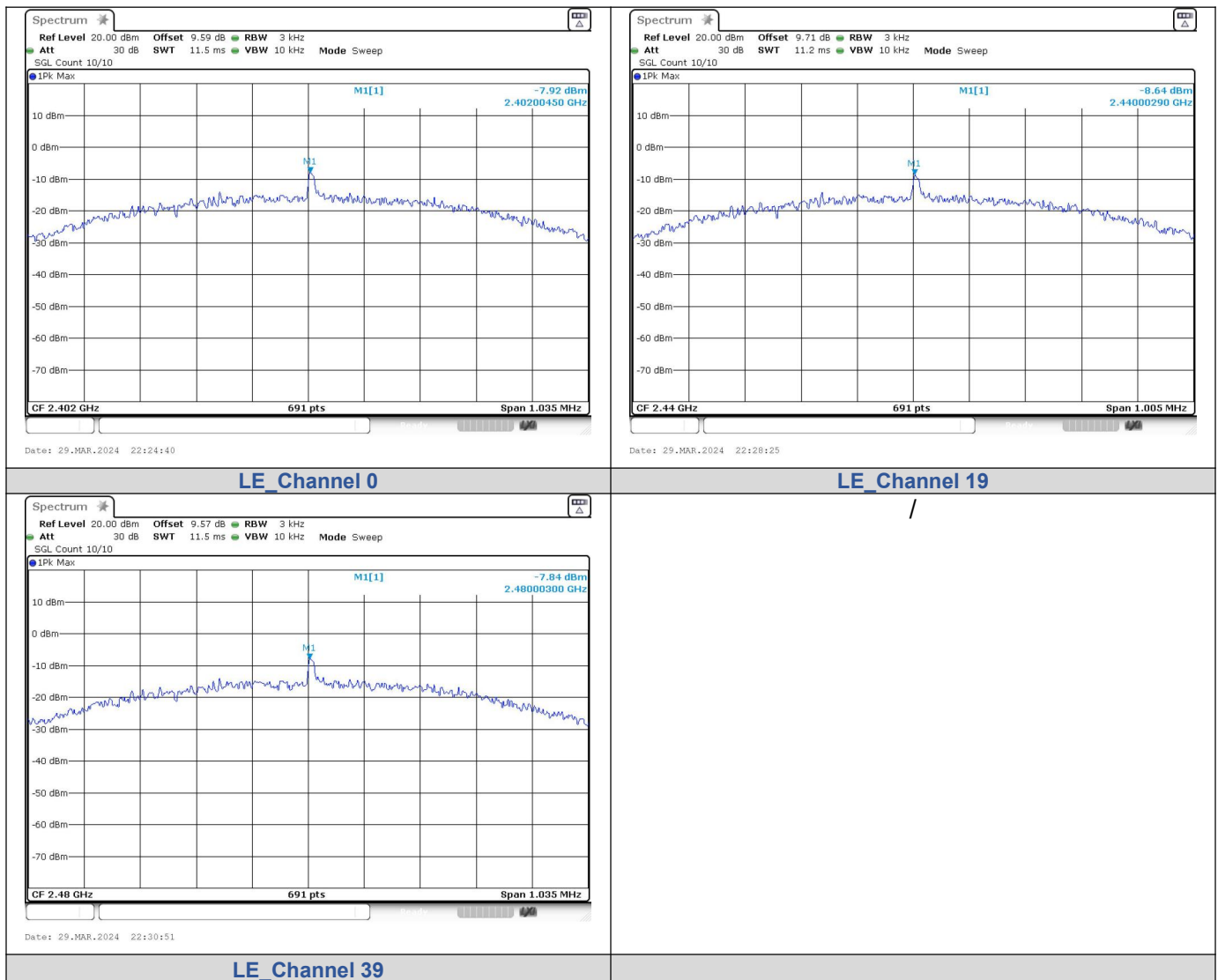
Power Spectral Density

Left

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-7.920	8	PASS
LE	19	-8.643	8	PASS
LE	39	-7.842	8	PASS

Test Graphs



Right Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-18.948	8	PASS
LE	19	-18.922	8	PASS
LE	39	-17.840	8	PASS

Test Graphs

