

Appendix A

Report No.:	CISRR240416095
FCC ID:	2BDNH-X-20
Product Name:	Helmet earphones
Model No.:	X-20
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Peak Output Power

Test Result

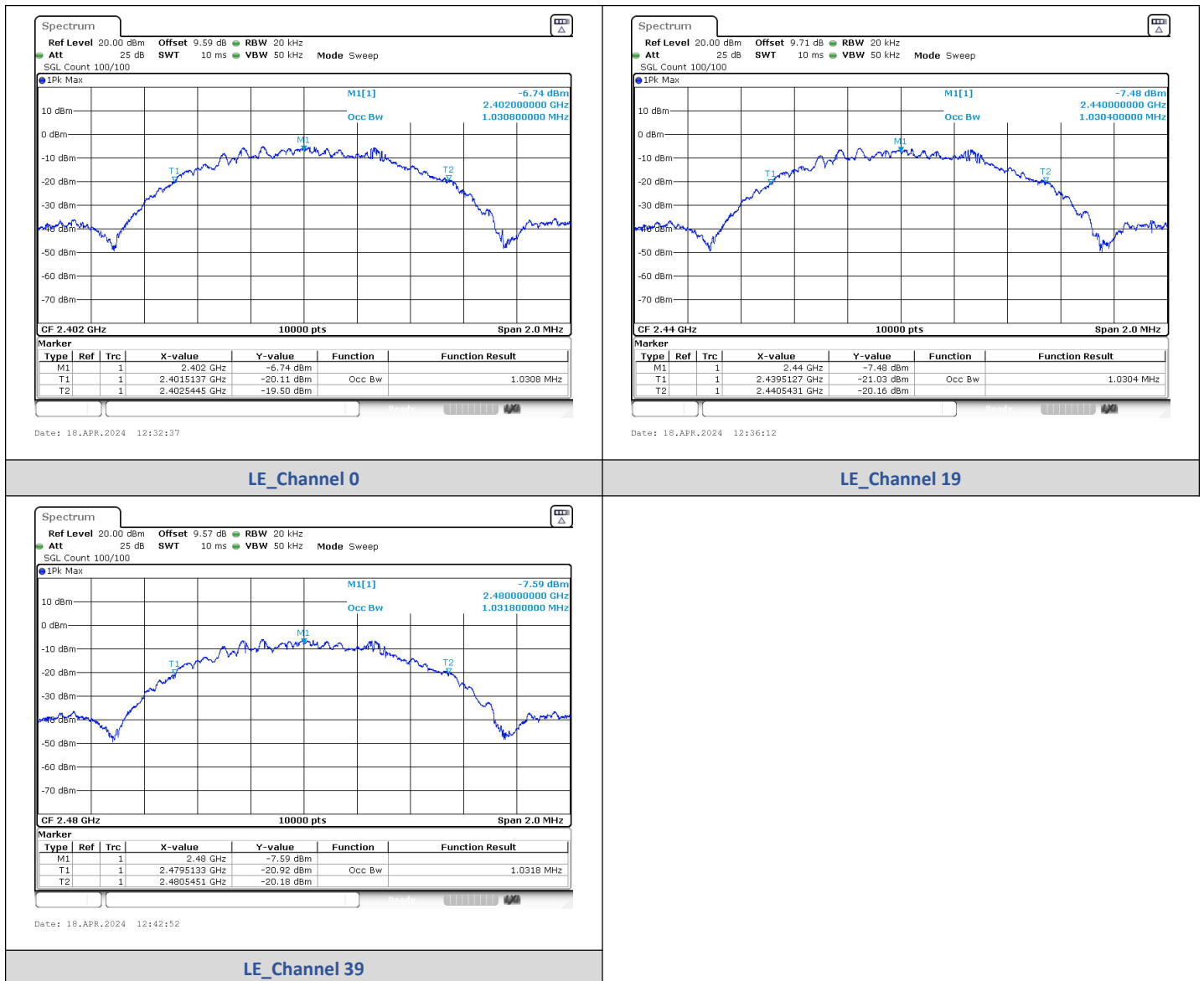
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	LE	0	1.556	1.43	30	PASS
		19	0.871	1.22		PASS
		39	0.810	1.21		PASS

2) 99% Bandwidth

Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0310
LE	19	1.0300
LE	39	1.0320

Test Graphs

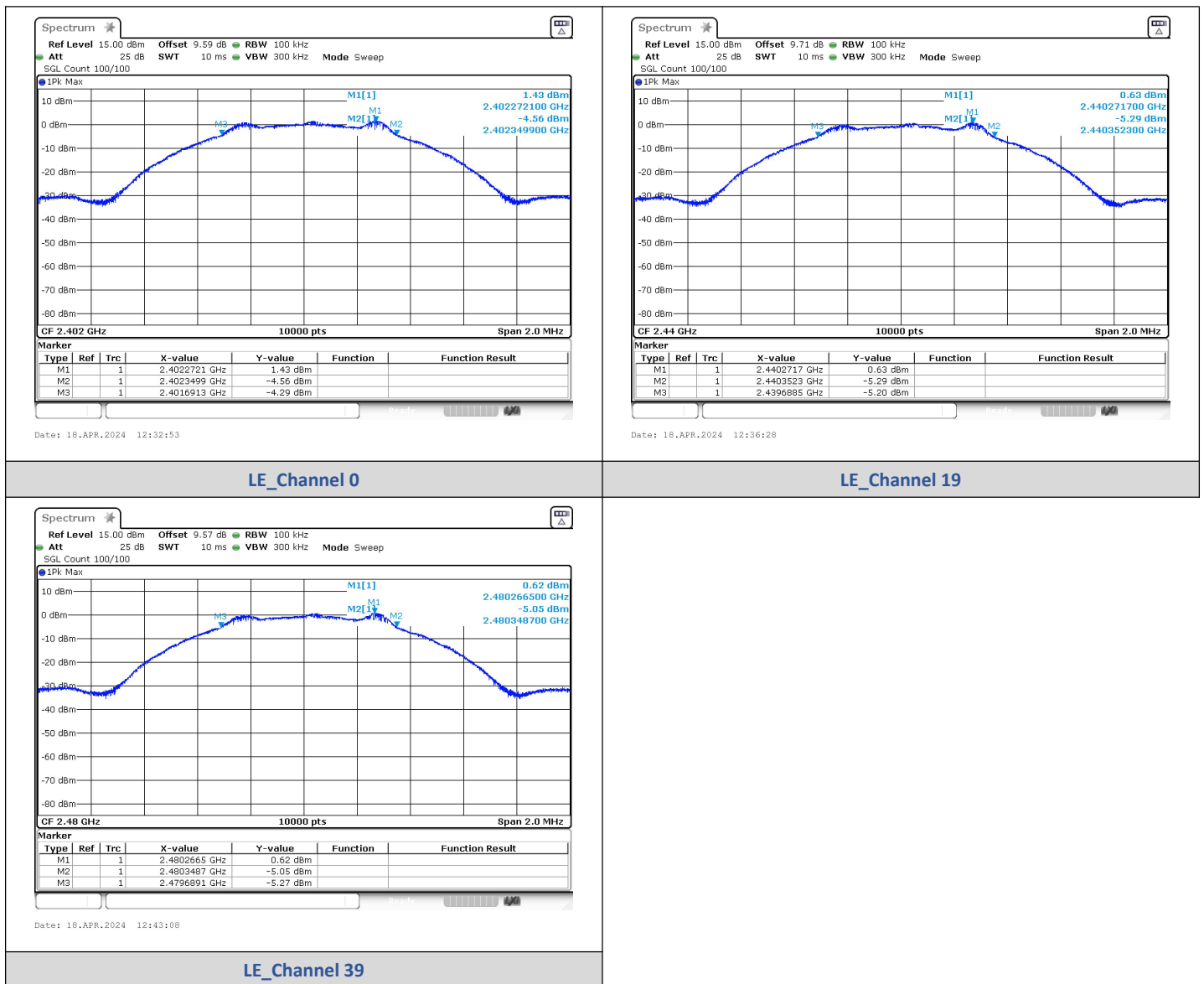


3) 6dB Bandwidth

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

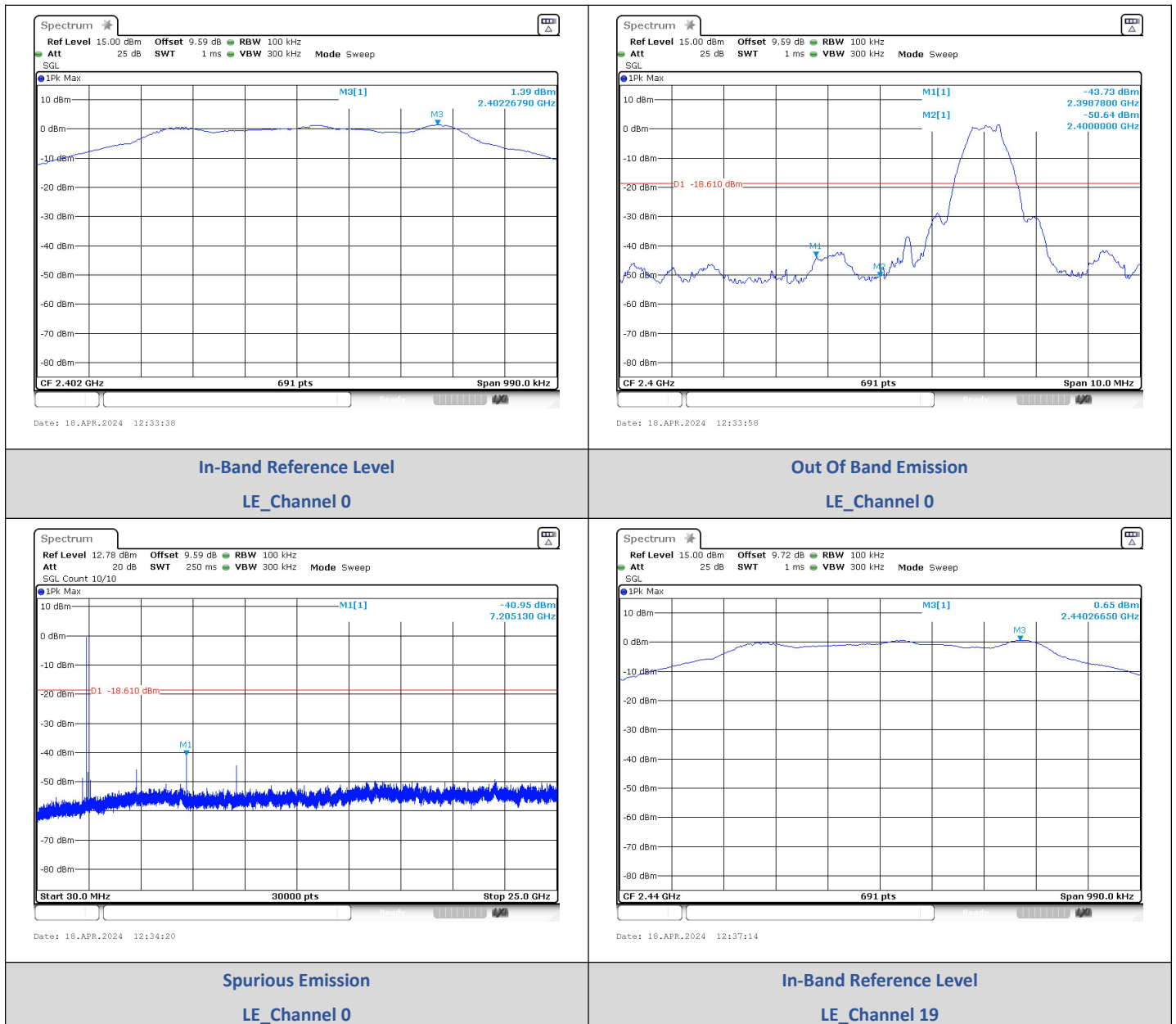


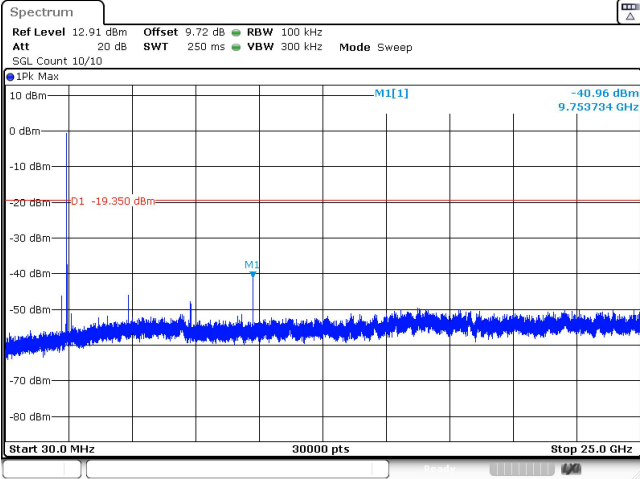
4) Conducted Out Of Band Emission

Test Result

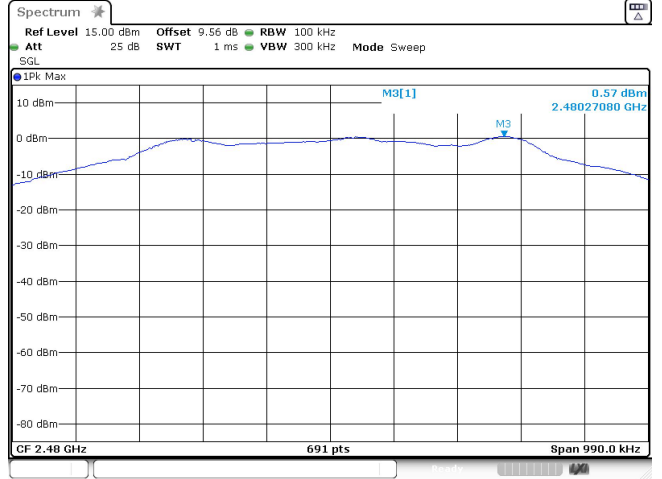
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-50.637	-18.61	-32.027	PASS
		2398.78	-43.733	-18.61	-25.123	PASS
		7205.10	-40.946	-18.61	-22.336	PASS
	19	9753.73	-40.963	-19.35	-21.613	PASS
	39	2483.50	-47.939	-19.43	-28.509	PASS
		9914.37	-39.601	-19.43	-20.171	PASS

Test Graphs

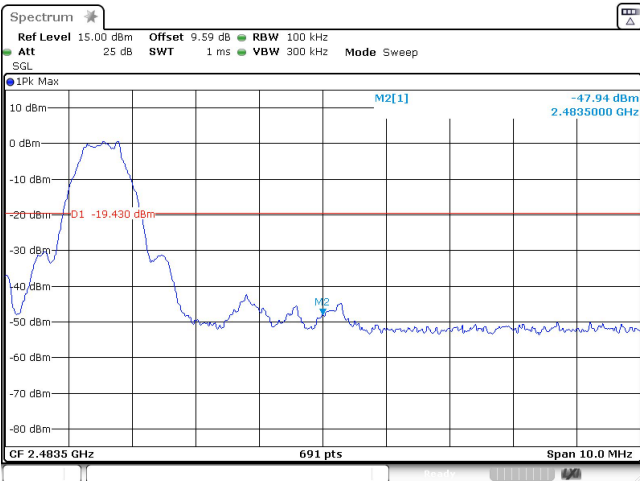




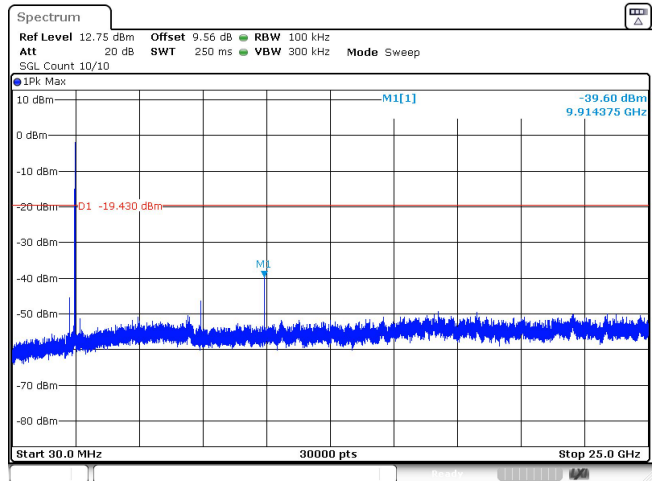
Spurious Emissions
LE_Channel 19



In-Band Reference Level
LE_Channel 39



Out Of Band Emission
LE_Channel 39



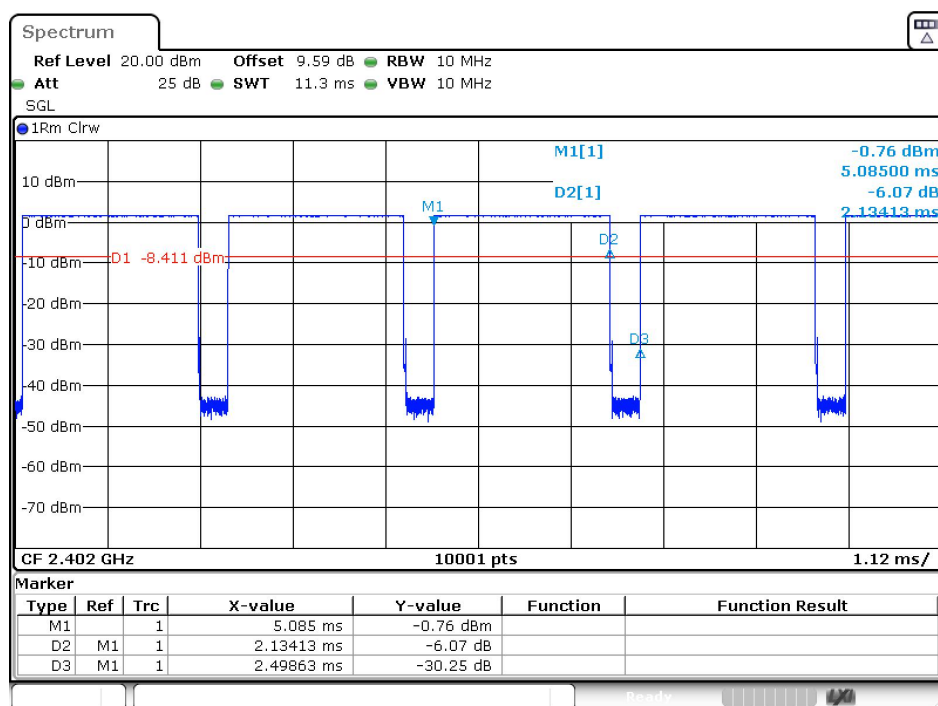
Spurious Emission
LE_Channel 39

5) Duty Cycle

Test Result

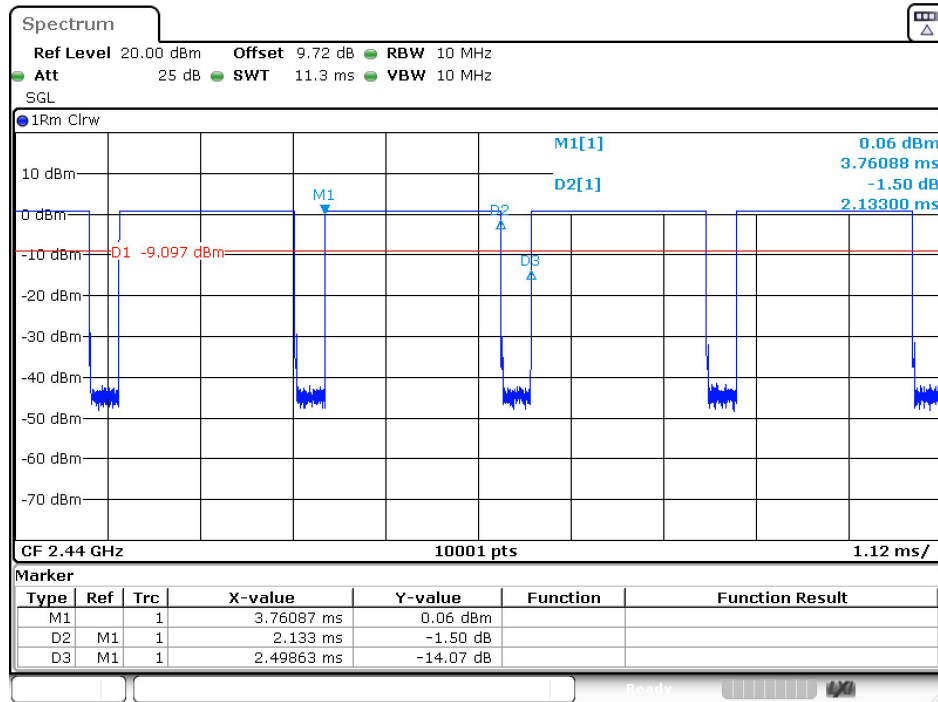
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
LE	0	2.134	2.499	85.41	0.8541	0.6849	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47

Test Graphs



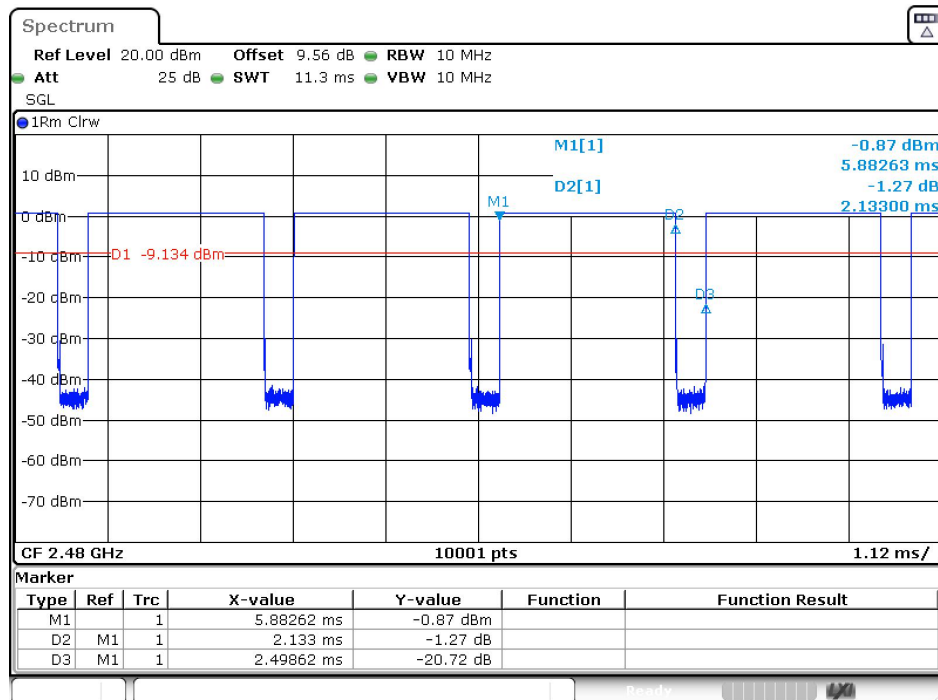
Date: 18.APR.2024 12:32:23

LE



Date: 18.APR.2024 12:35:58

LE



Date: 18.APR.2024 12:42:38

LE

6) Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-14.828	8	PASS
LE	19	-15.537	8	PASS
LE	39	-15.584	8	PASS

Test Graphs

