

Appendix Test Data for BLE (Conducted Measurement)

Product Name: GravaStar Mercury X Pro Wireless Gaming Mouse

Trade Mark: GravaStar

Test Model: GS X PRO

FCC ID: 2ASXF-GSX-PRO

Environmental Conditions

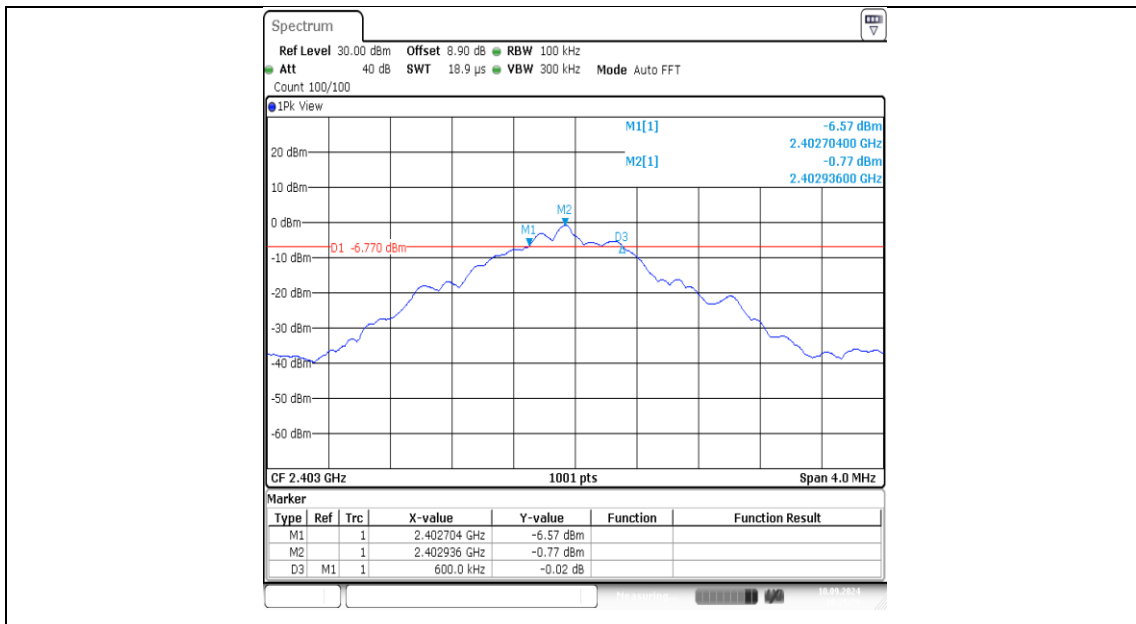
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

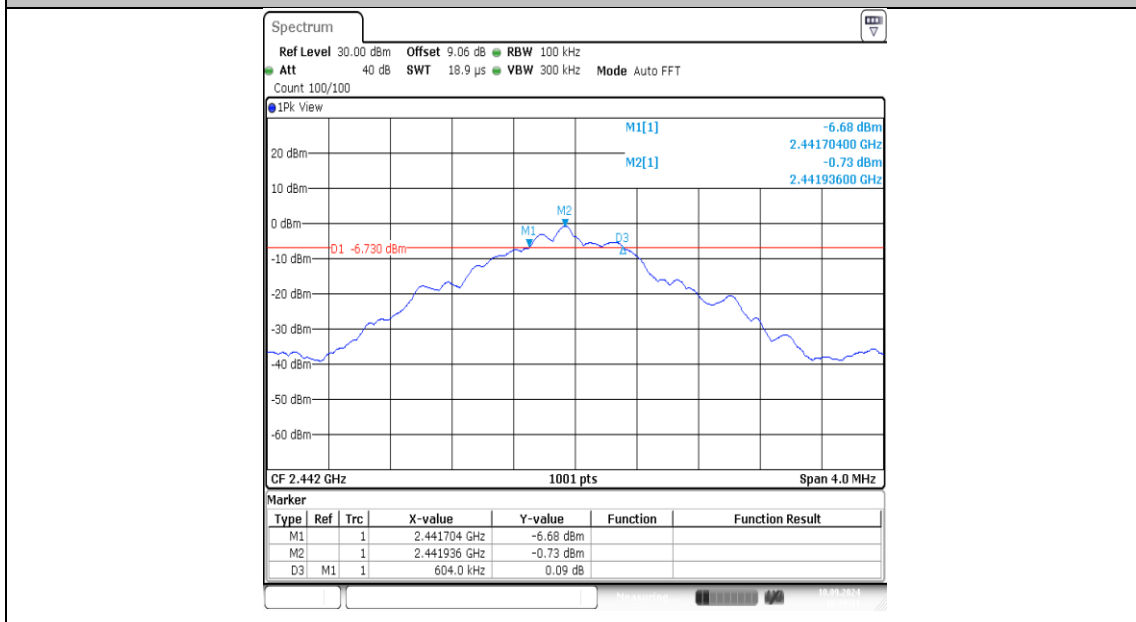
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2403	0.60	2402.70	2403.30	0.5	PASS
SRD	Ant1	2442	0.60	2441.70	2442.31	0.5	PASS
SRD	Ant1	2480	0.60	2479.70	2480.31	0.5	PASS

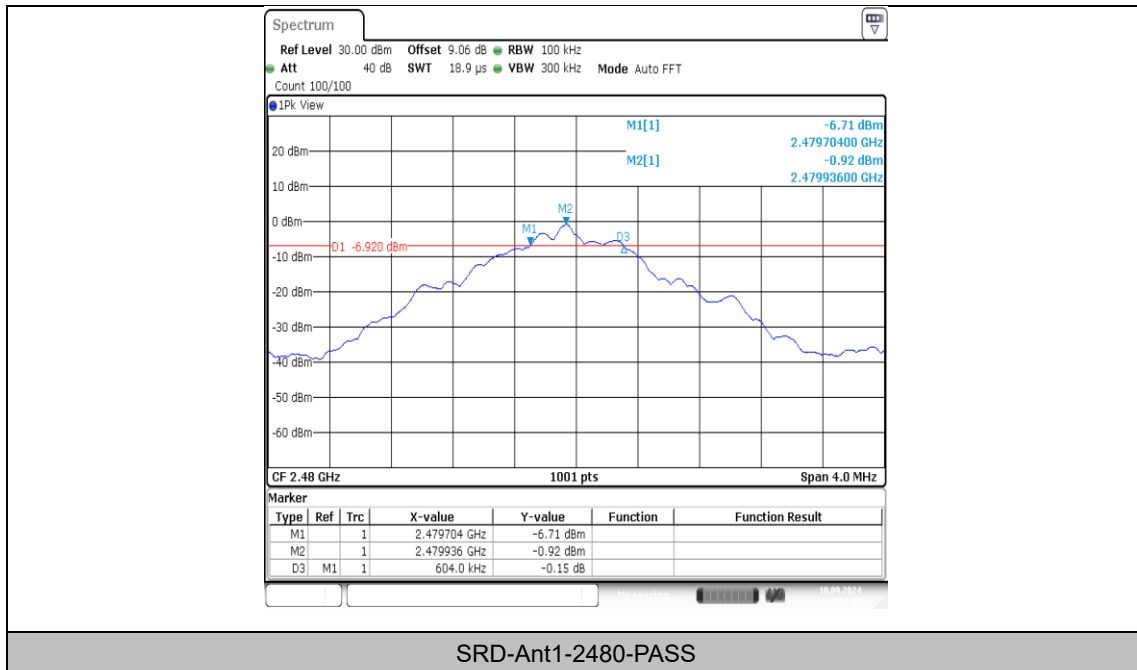
Test Graphs



SRD-Ant1-2403-PASS



SRD-Ant1-2442-PASS

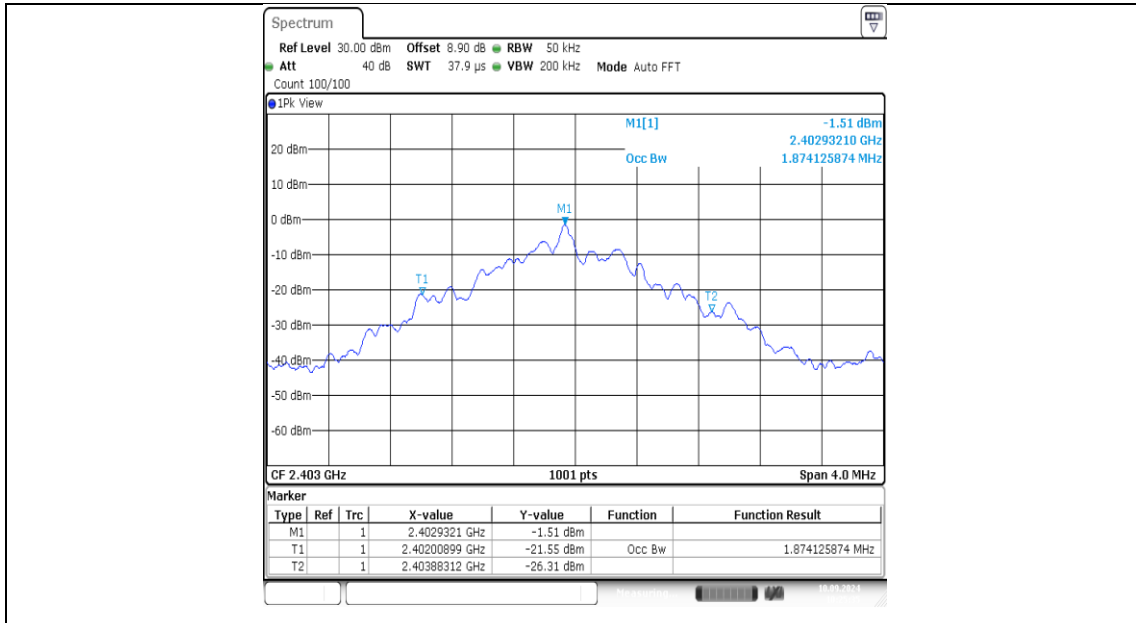


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2403	1.874	2402.0090	2403.8831	---	---
SRD	Ant1	2442	1.878	2441.0090	2442.8871	---	---
SRD	Ant1	2480	1.878	2479.0090	2480.8871	---	---

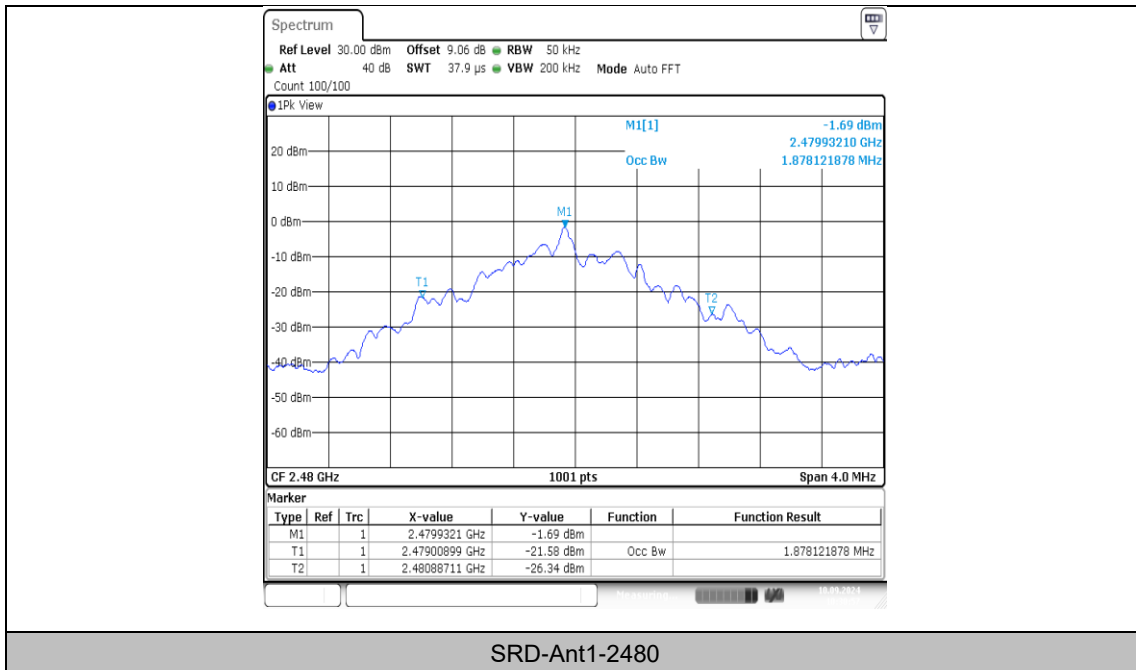
Test Graphs



SRD-Ant1-2403



SRD-Ant1-2442

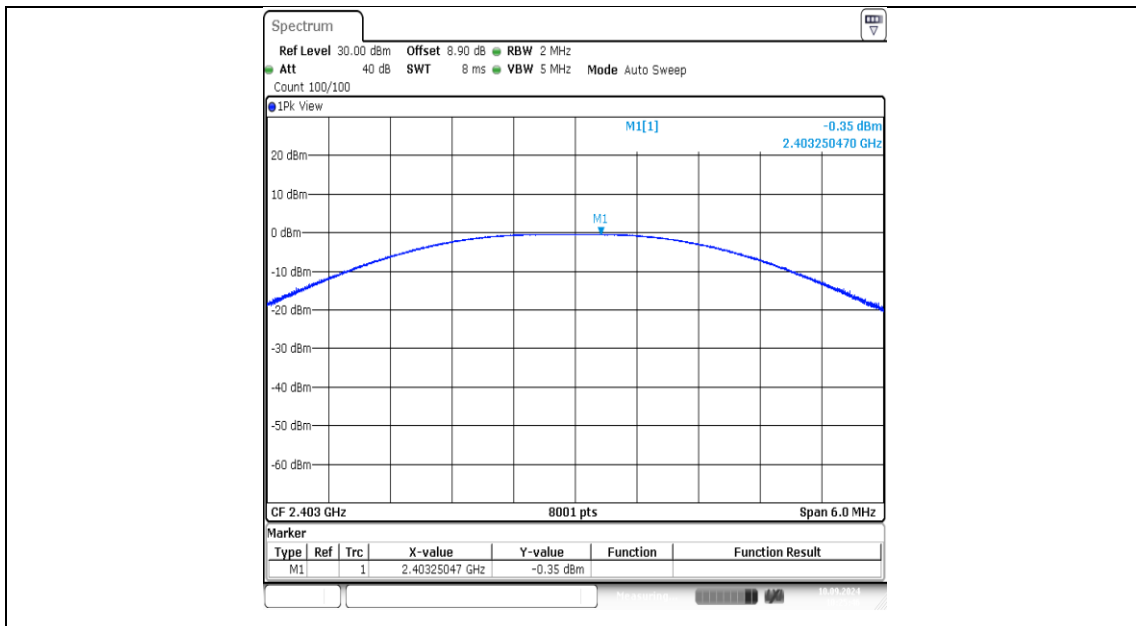


Appendix C: Maximum peak conducted output power

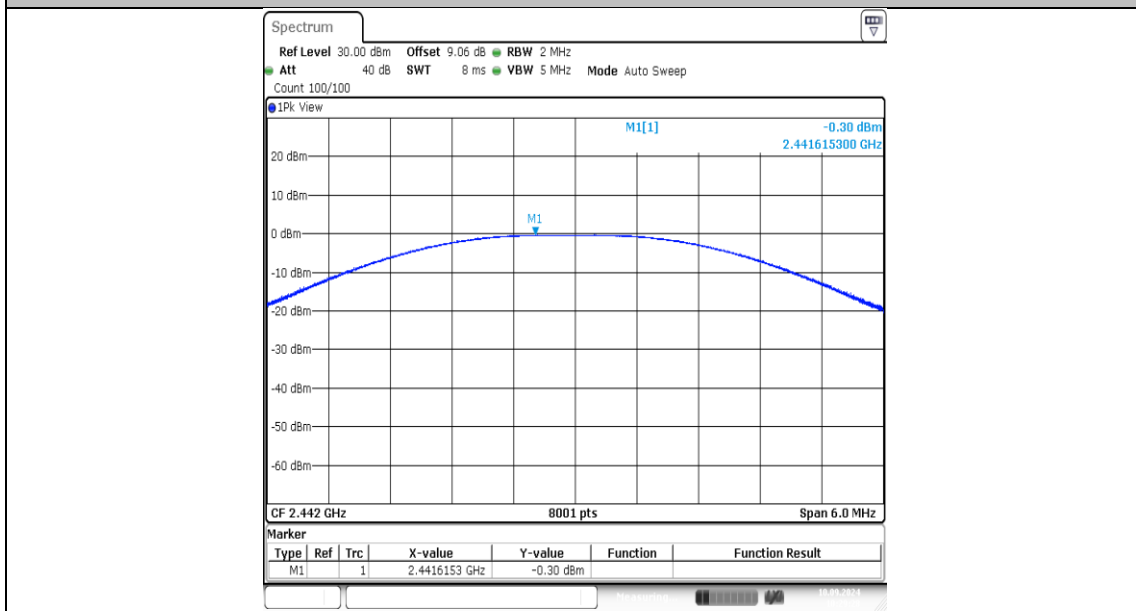
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2403	-0.35	≤30	PASS
SRD	Ant1	2442	-0.30	≤30	PASS
SRD	Ant1	2480	-0.42	≤30	PASS

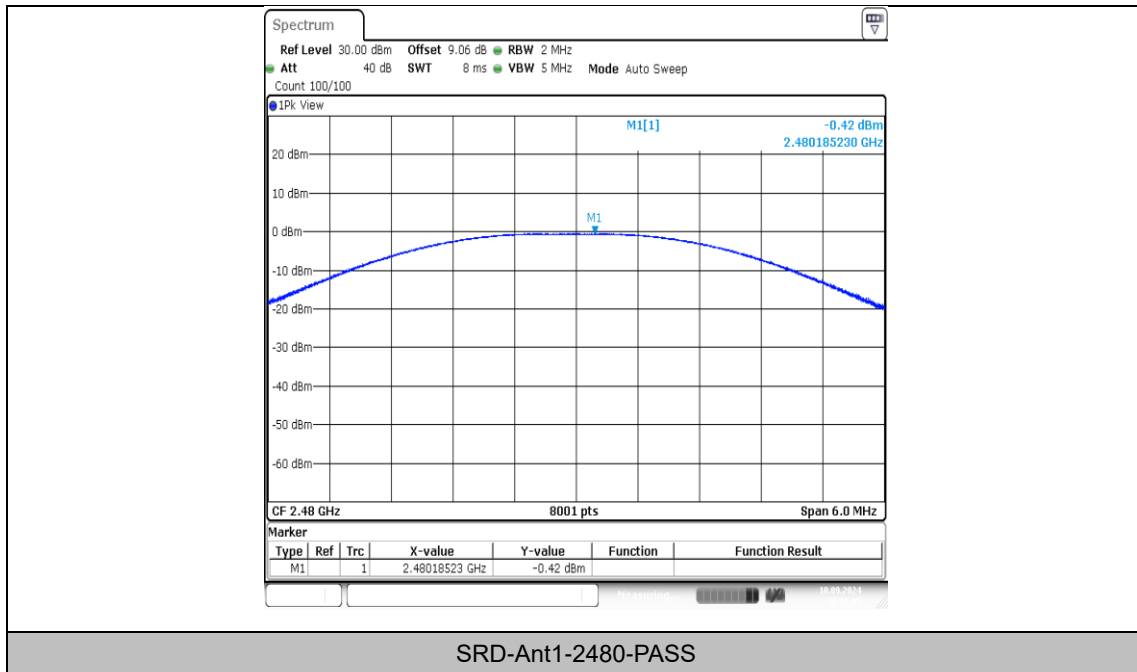
Test Graphs Peak



SRD-Ant1-2403-PASS



SRD-Ant1-2442-PASS

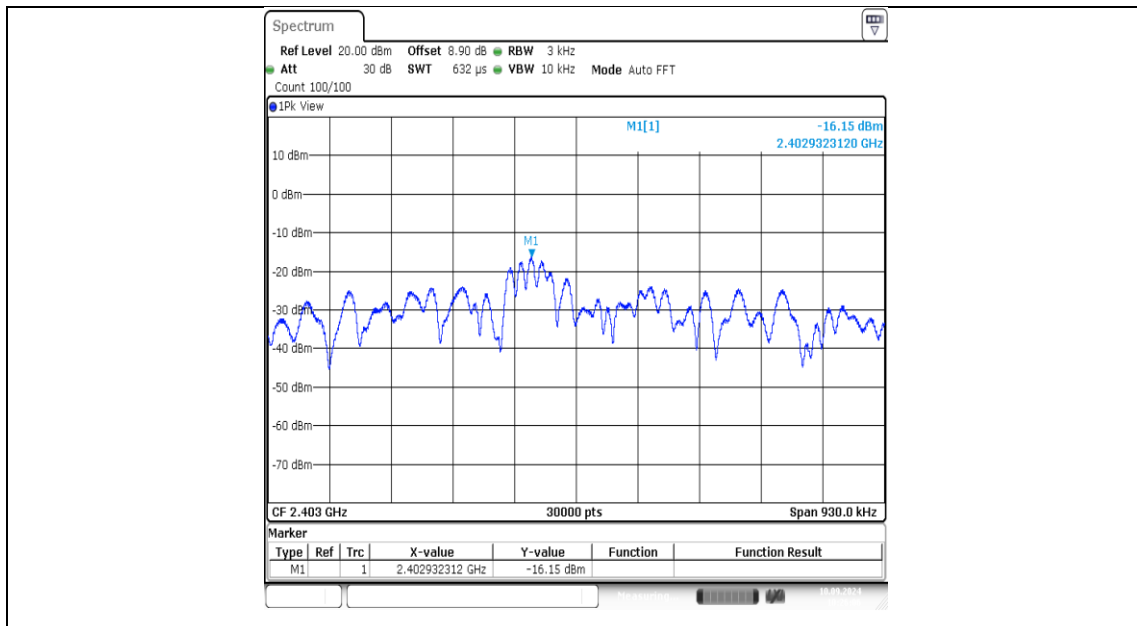


Appendix D: Maximum peak power spectral density

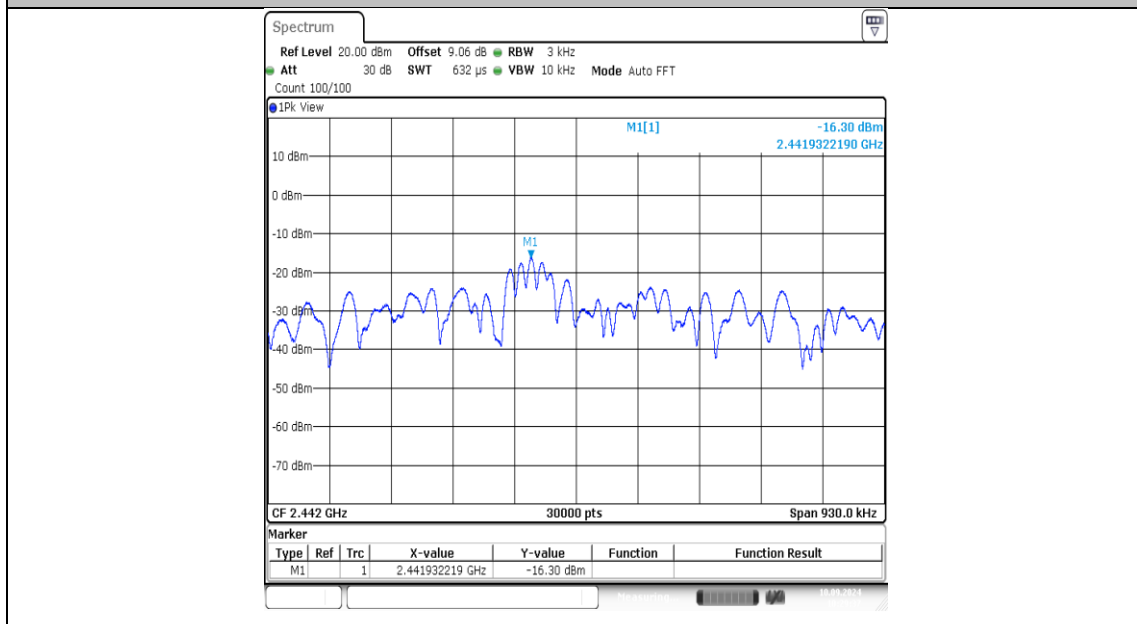
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2403	-16.15	≤8.00	PASS
SRD	Ant1	2442	-16.30	≤8.00	PASS
SRD	Ant1	2480	-16.52	≤8.00	PASS

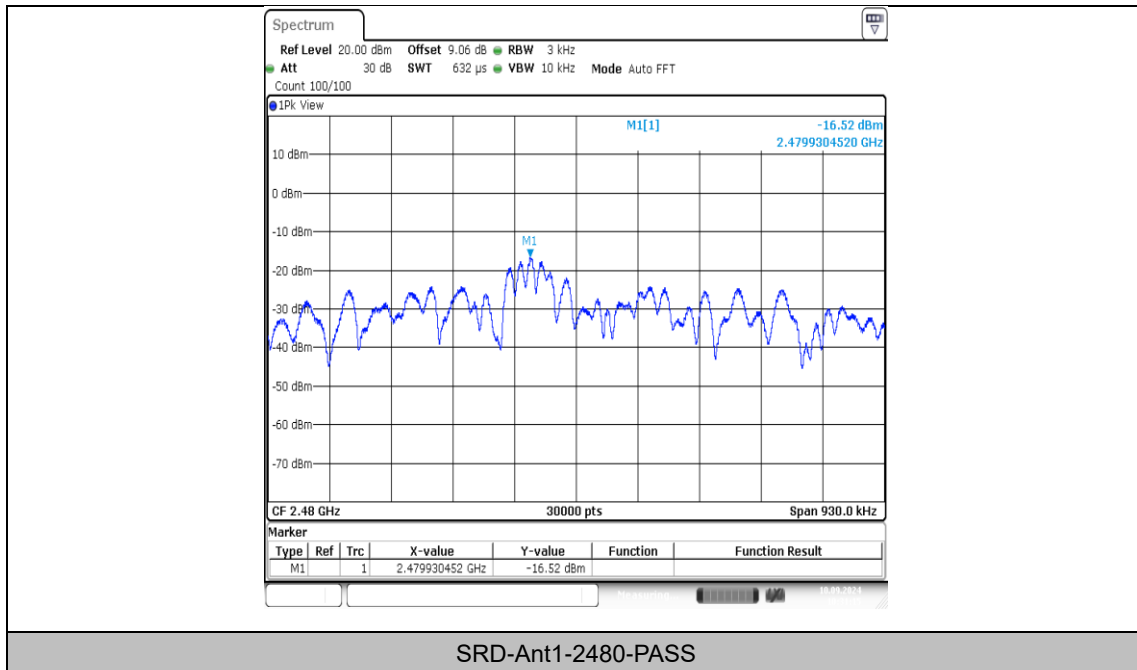
Test Graphs



SRD-Ant1-2403-PASS



SRD-Ant1-2442-PASS

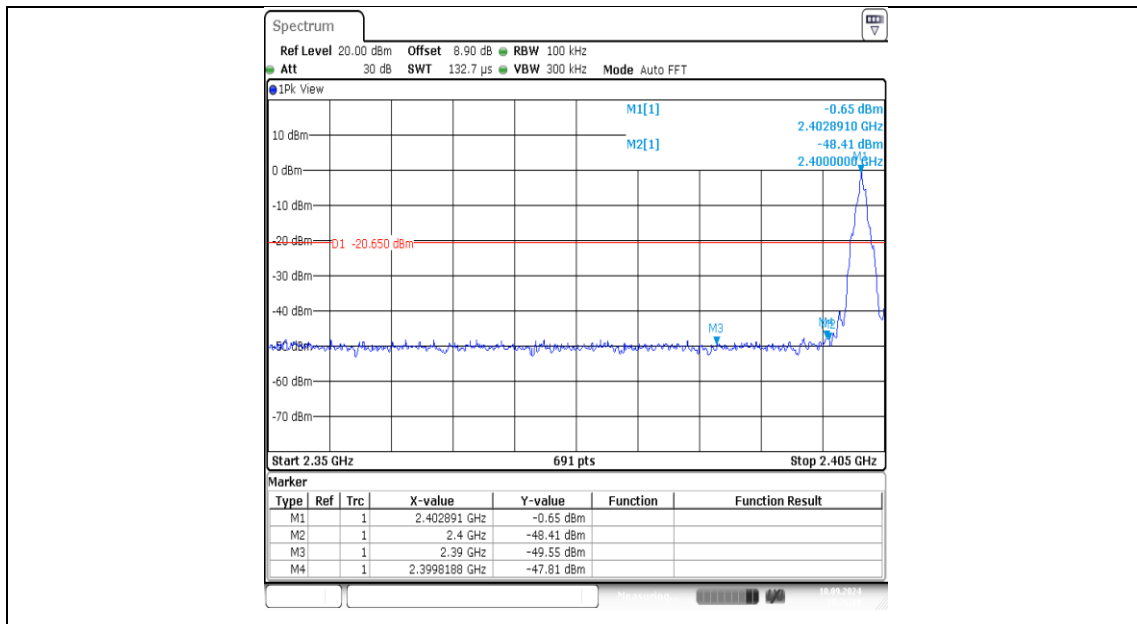


Appendix E: Band edge measurements

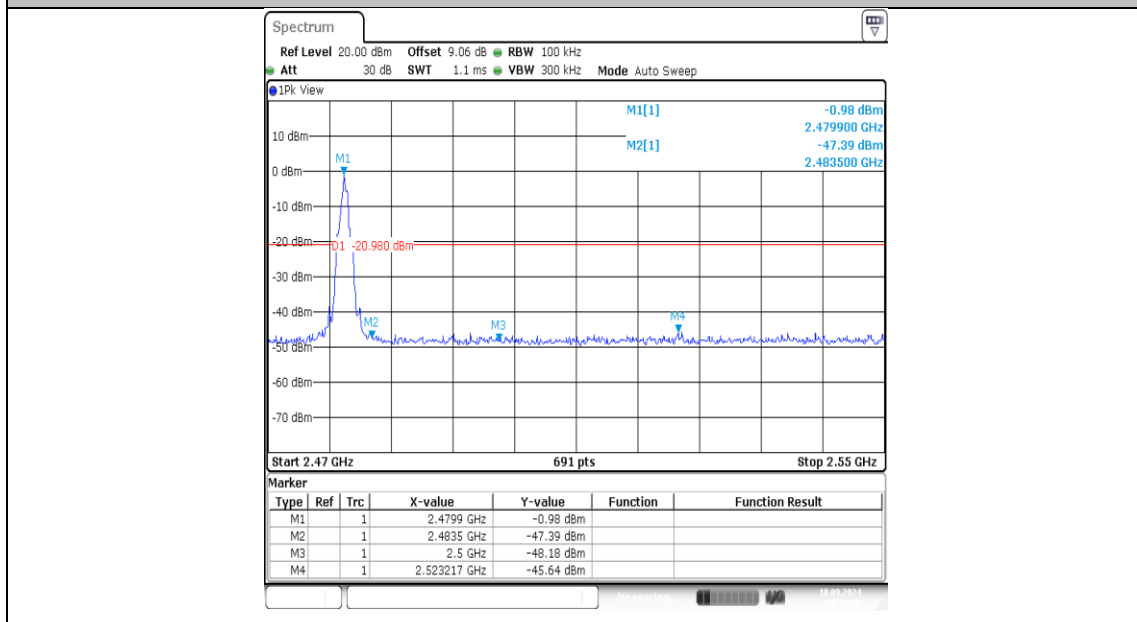
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2403	-0.65	-47.81	≤-20.65	PASS
SRD	Ant1	High	2480	-0.98	-45.64	≤-20.98	PASS

Test Graphs



SRD-Ant1-2403-PASS



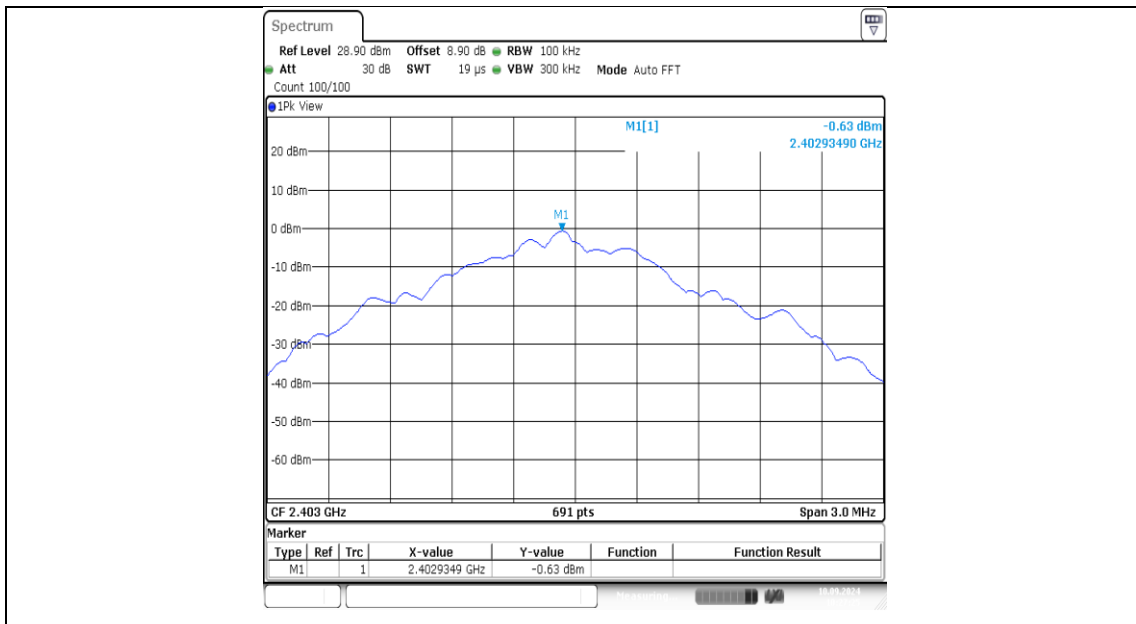
SRD-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

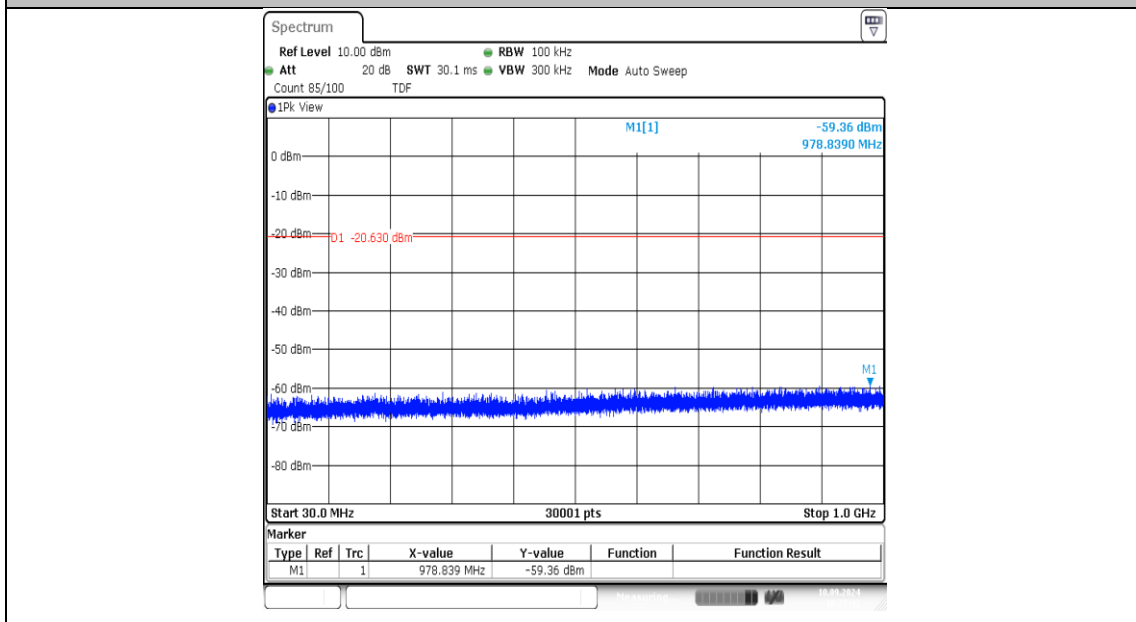
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2403	0~Reference	-0.63	-0.63	---	PASS
SRD	Ant1	2403	30~1000	-0.63	-59.36	≤-20.63	PASS
SRD	Ant1	2403	1000~26500	-0.63	-50.53	≤-20.63	PASS
SRD	Ant1	2442	0~Reference	-0.67	-0.67	---	PASS
SRD	Ant1	2442	30~1000	-0.67	-58.83	≤-20.67	PASS
SRD	Ant1	2442	1000~26500	-0.67	-50.86	≤-20.67	PASS
SRD	Ant1	2480	0~Reference	-0.89	-0.89	---	PASS
SRD	Ant1	2480	30~1000	-0.89	-59.28	≤-20.89	PASS
SRD	Ant1	2480	1000~26500	-0.89	-51	≤-20.89	PASS

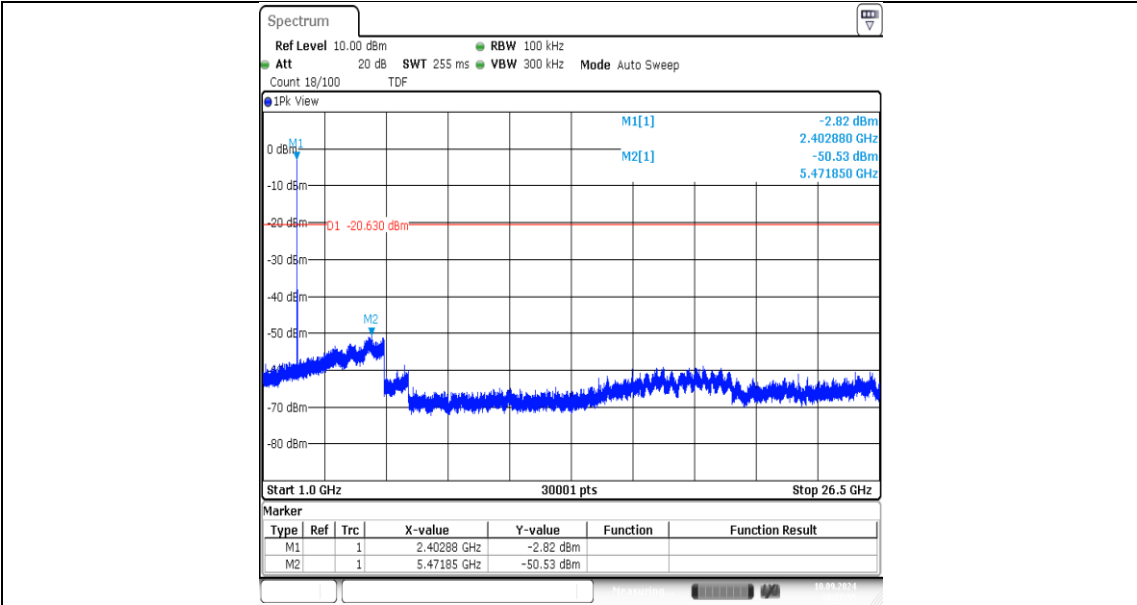
Test Graphs



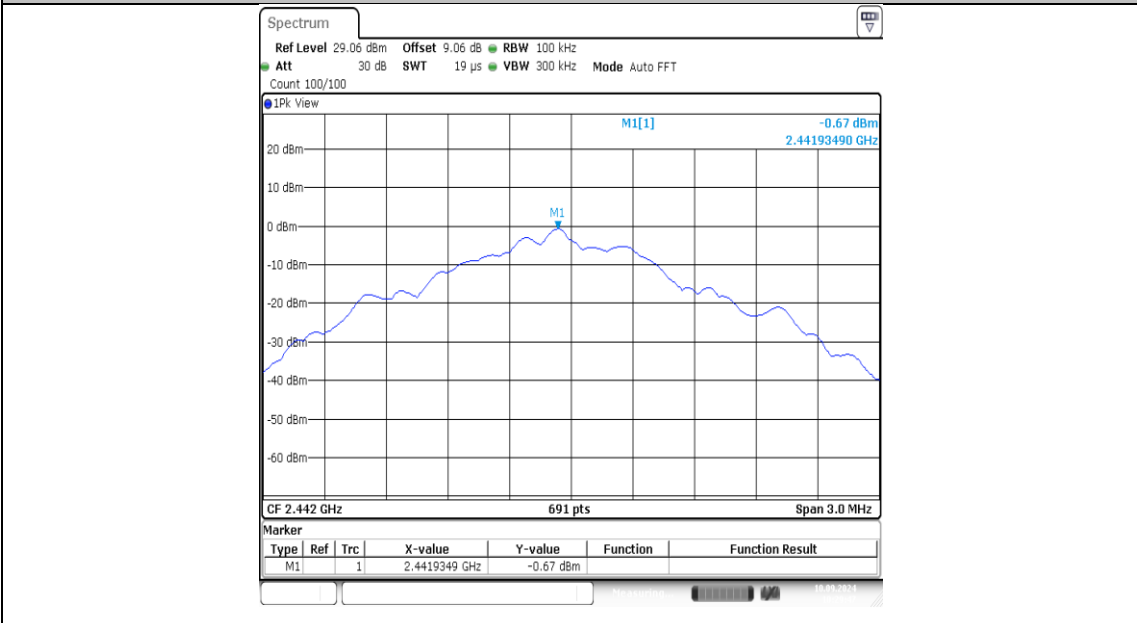
SRD-Ant1-2403-0~Reference-PASS



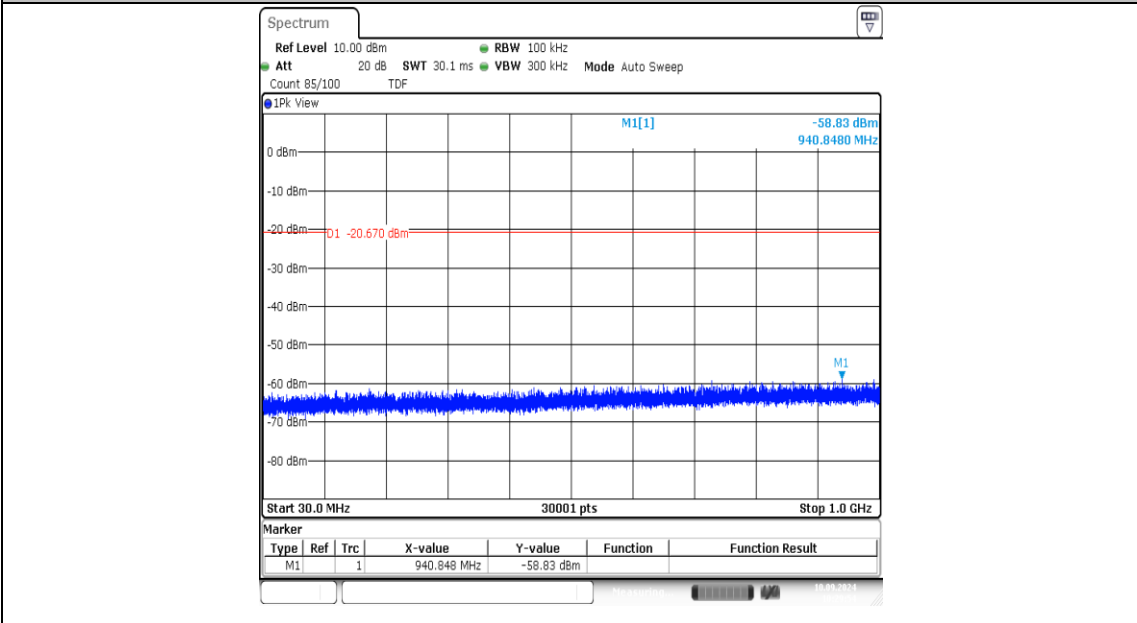
SRD-Ant1-2403-30~1000-PASS



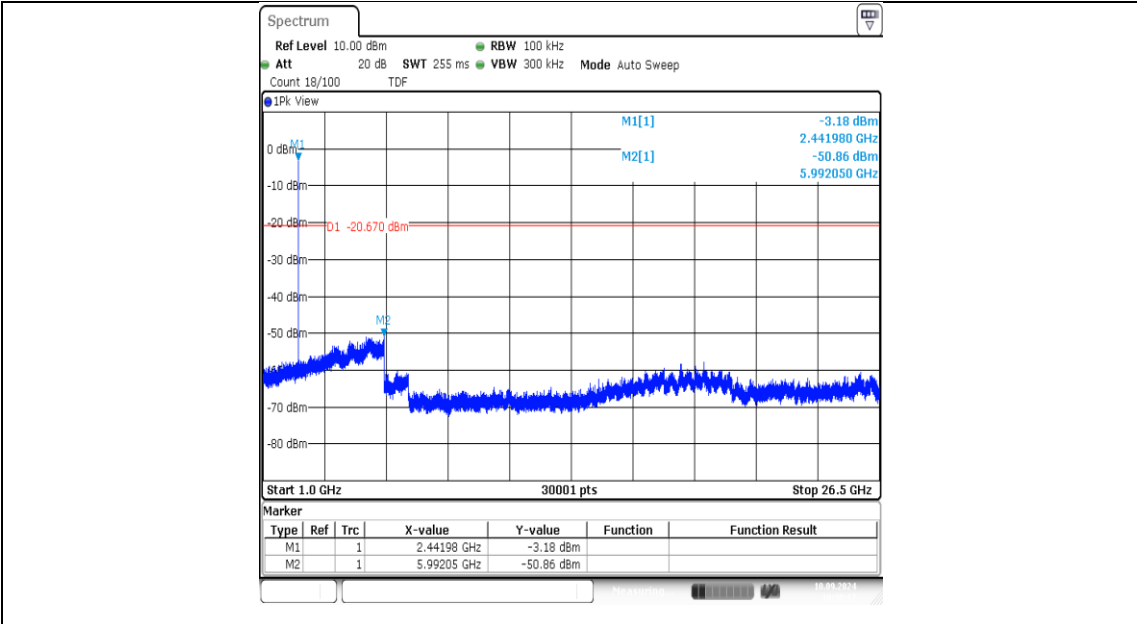
SRD-Ant1-2403-1000~26500-PASS



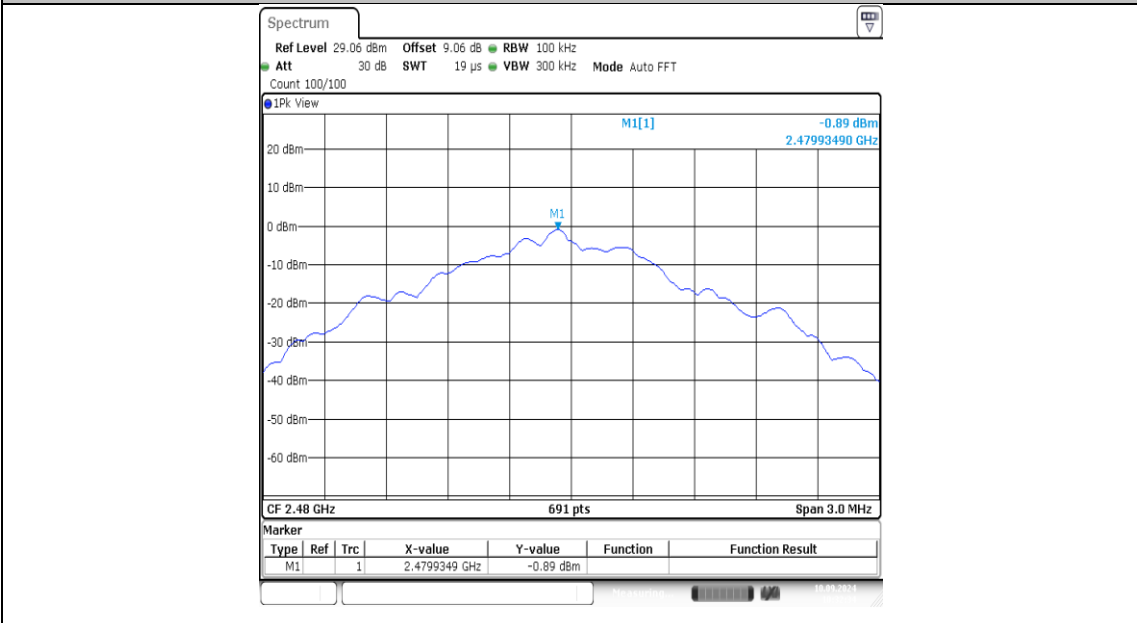
SRD-Ant1-2442-0~Reference-PASS



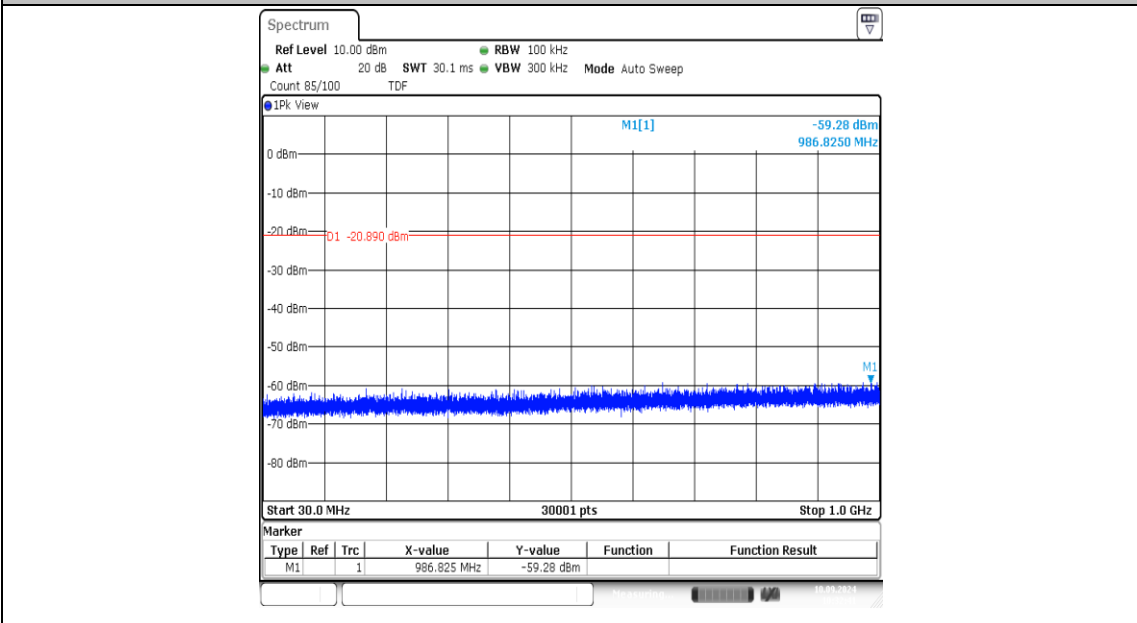
SRD-Ant1-2442-30~1000-PASS



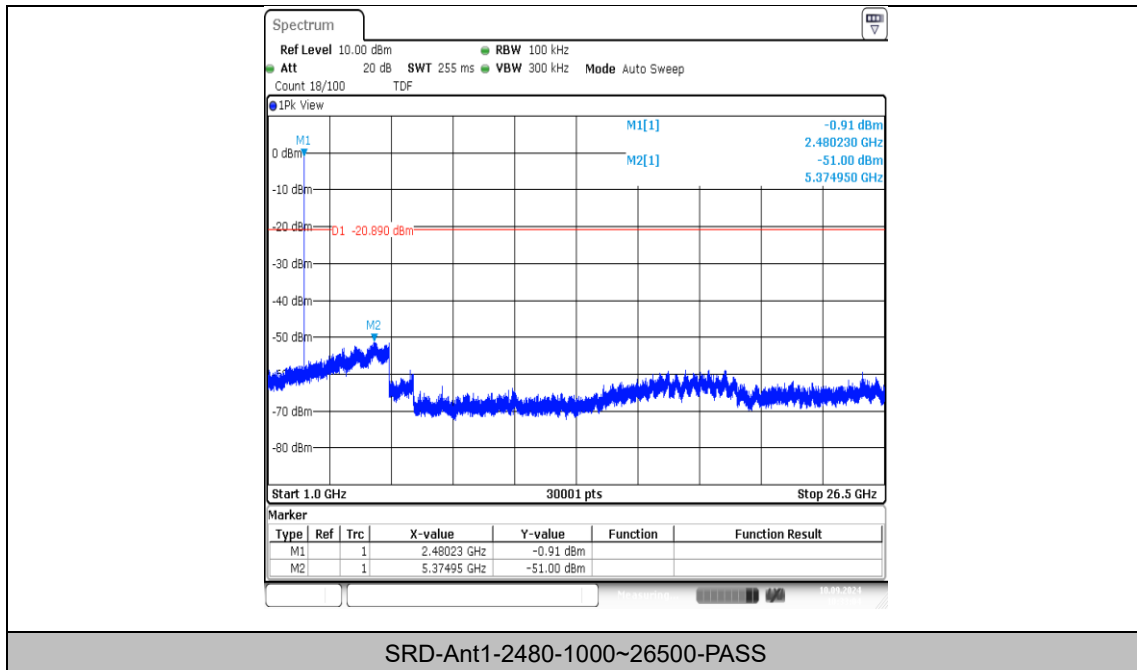
SRD-Ant1-2442-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS

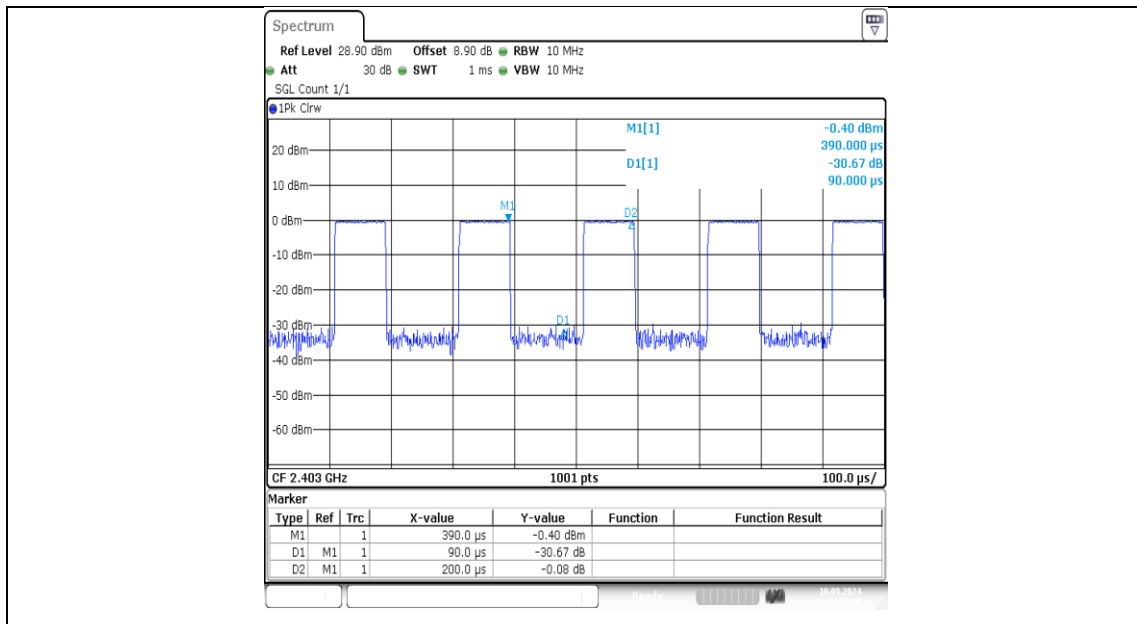


Appendix G: Duty Cycle

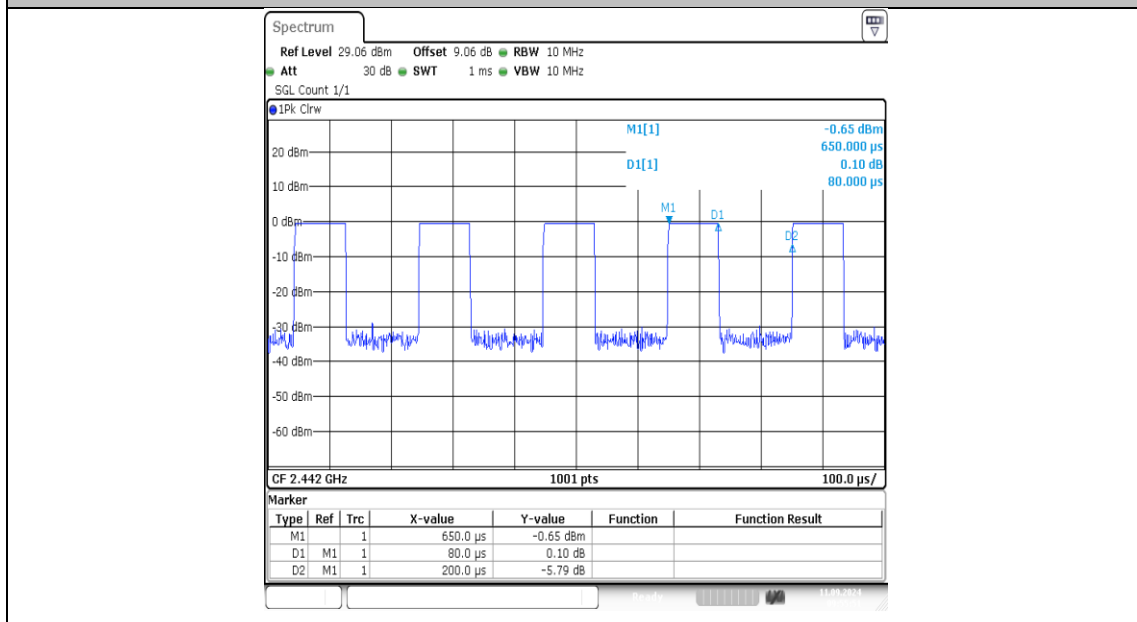
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	2403	0.09	0.20	45.00	3.47
SRD	Ant1	2442	0.08	0.20	40.00	3.98
SRD	Ant1	2480	0.08	0.20	40.00	3.98

Test Graphs



NTNV-SRD-Ant1-2403



NTNV-SRD-Ant1-2442

