

Appendix Test Data

Report No:	1812C40106112501	Test Sample NO:	1-2-2
Start Test Date:	2024.10.17	Finish Test Date:	2024.10.17
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.6°C	Relative Humidity:	52%
Pressure:	101 kPa		

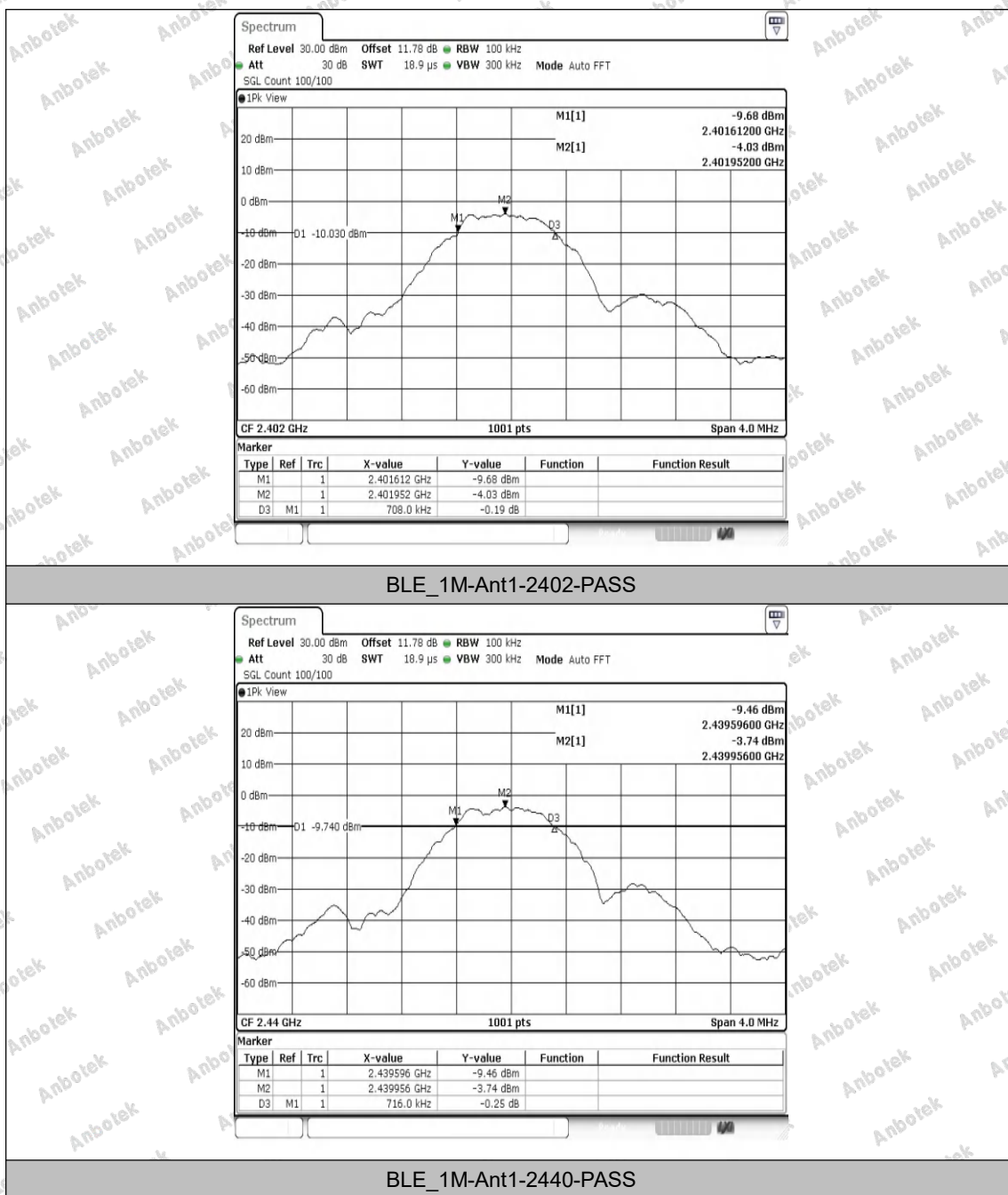
Appendix A: DTS Bandwidth

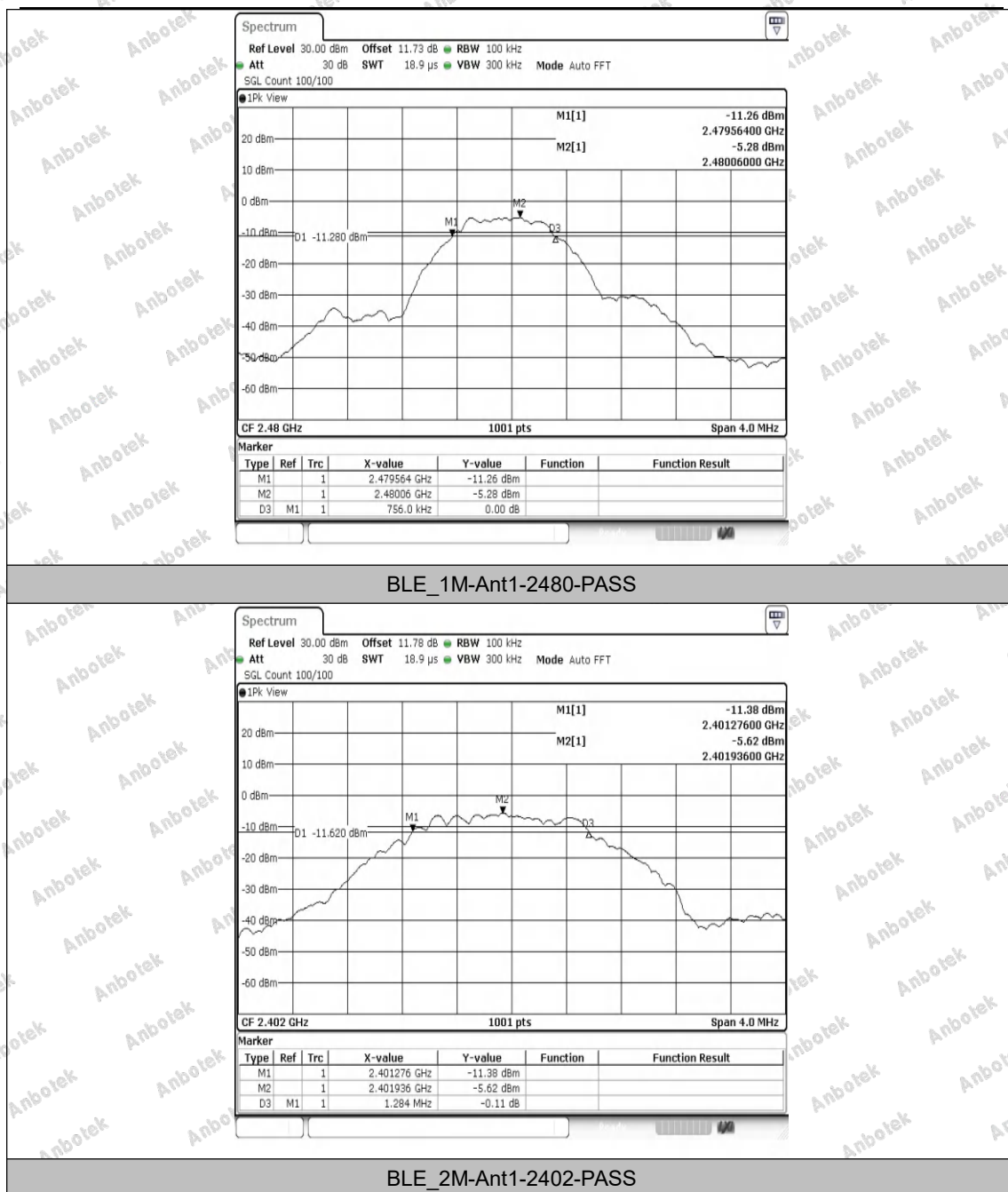
Test Result

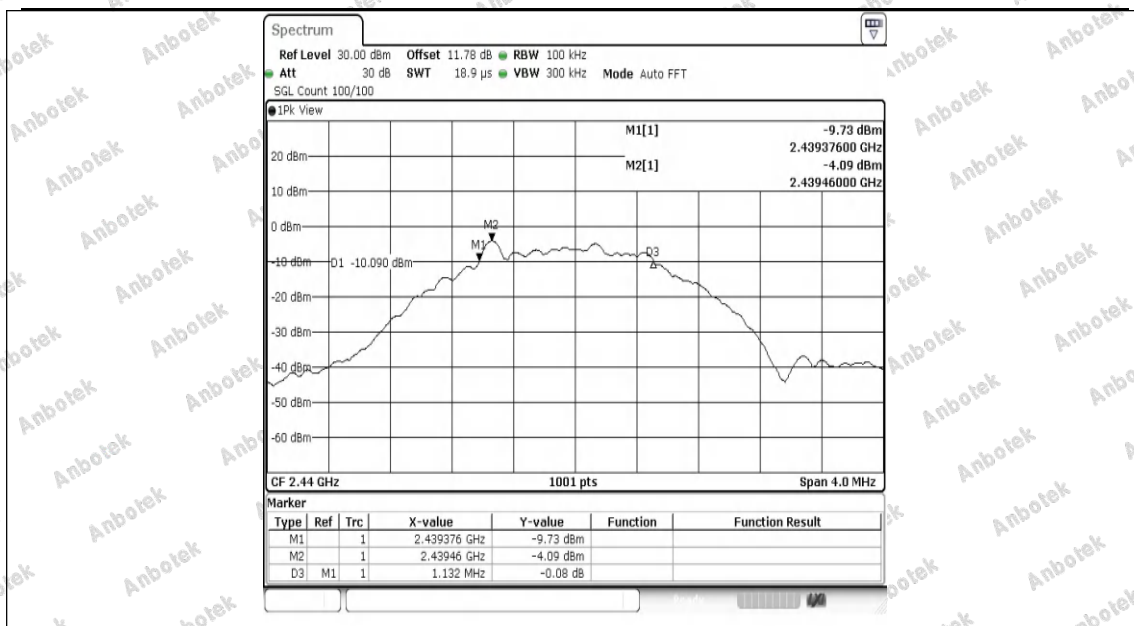
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.71	2401.61	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.60	2440.31	0.5	PASS
BLE_1M	Ant1	2480	0.76	2479.56	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.28	2401.28	2402.56	0.5	PASS
BLE_2M	Ant1	2440	1.13	2439.38	2440.51	0.5	PASS
BLE_2M	Ant1	2480	1.11	2479.39	2480.50	0.5	PASS



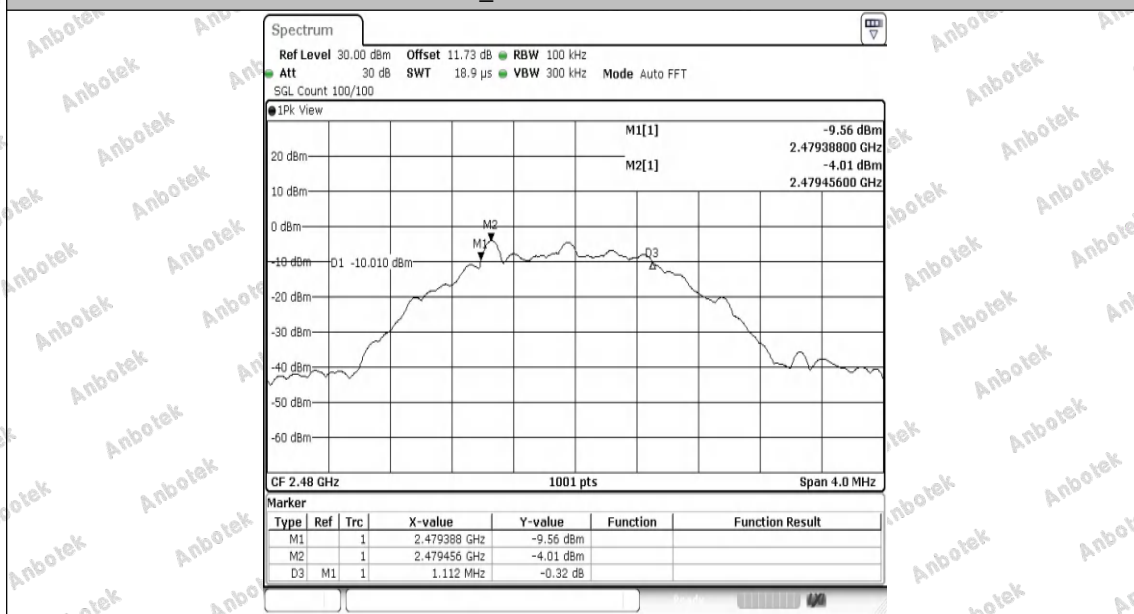
Test Graphs







BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



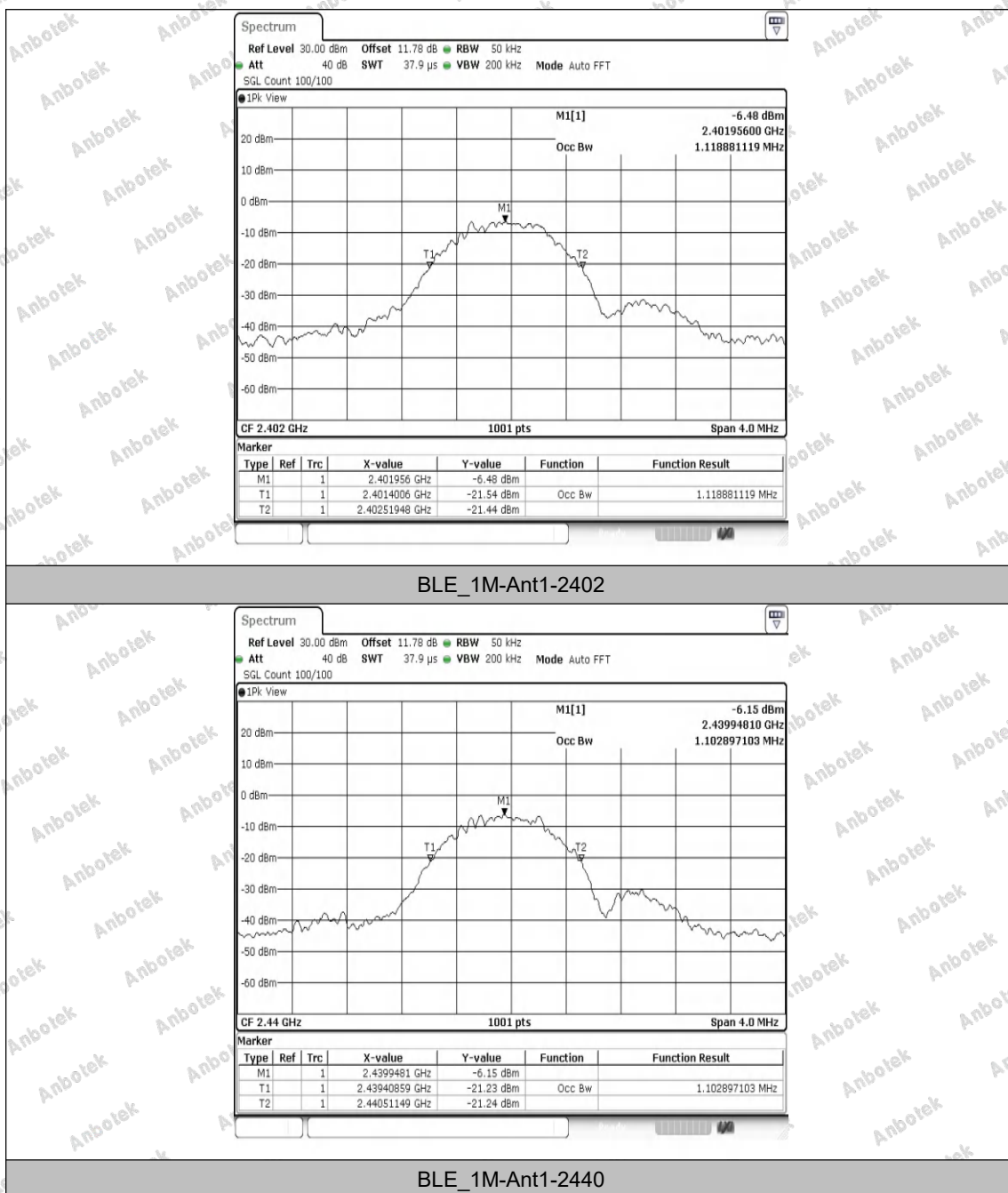
Appendix B: Occupied Channel Bandwidth

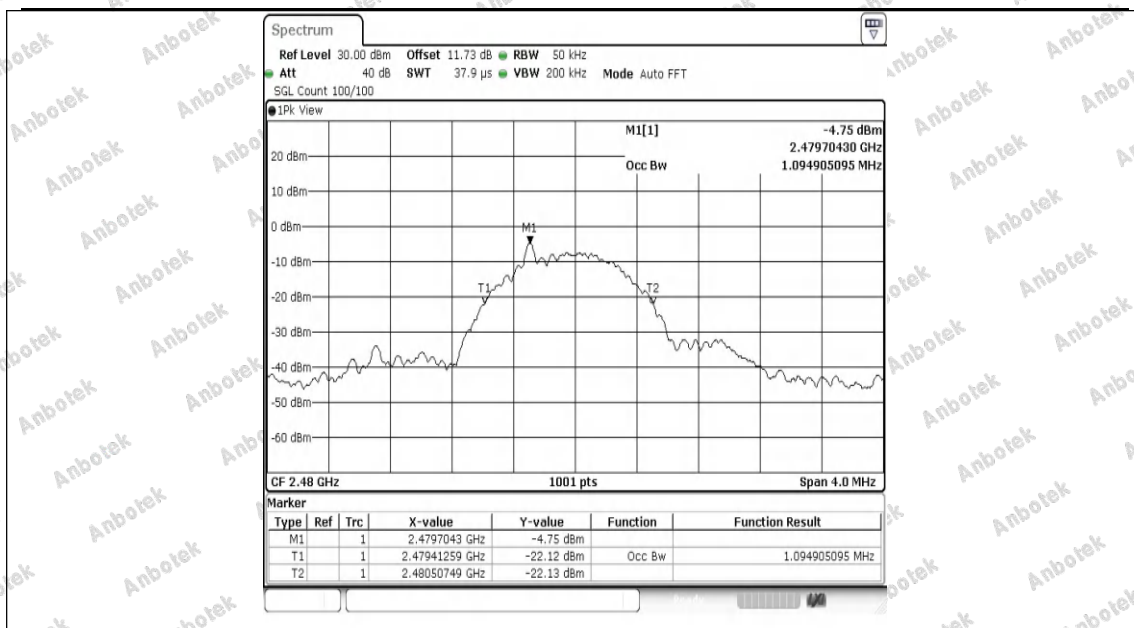
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.119	2401.4006	2402.5195	---	---
BLE_1M	Ant1	2440	1.103	2439.4086	2440.5115	---	---
BLE_1M	Ant1	2480	1.095	2479.4126	2480.5075	---	---
BLE_2M	Ant1	2402	1.974	2400.9650	2402.9391	---	---
BLE_2M	Ant1	2440	1.93	2438.9930	2440.9231	---	---
BLE_2M	Ant1	2480	1.922	2478.9890	2480.9111	---	---

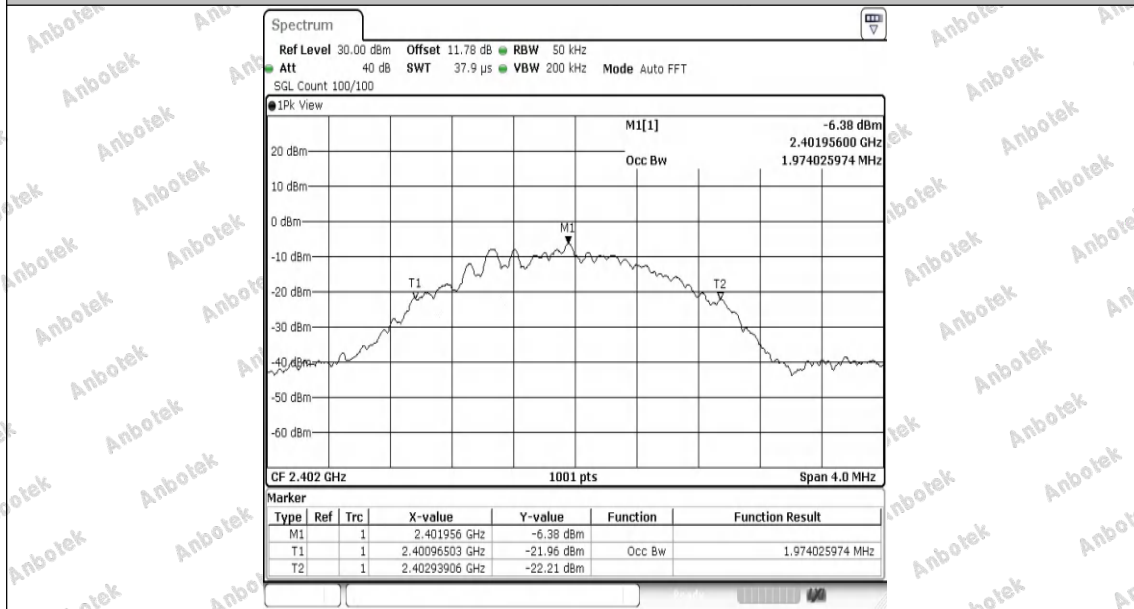


Test Graphs



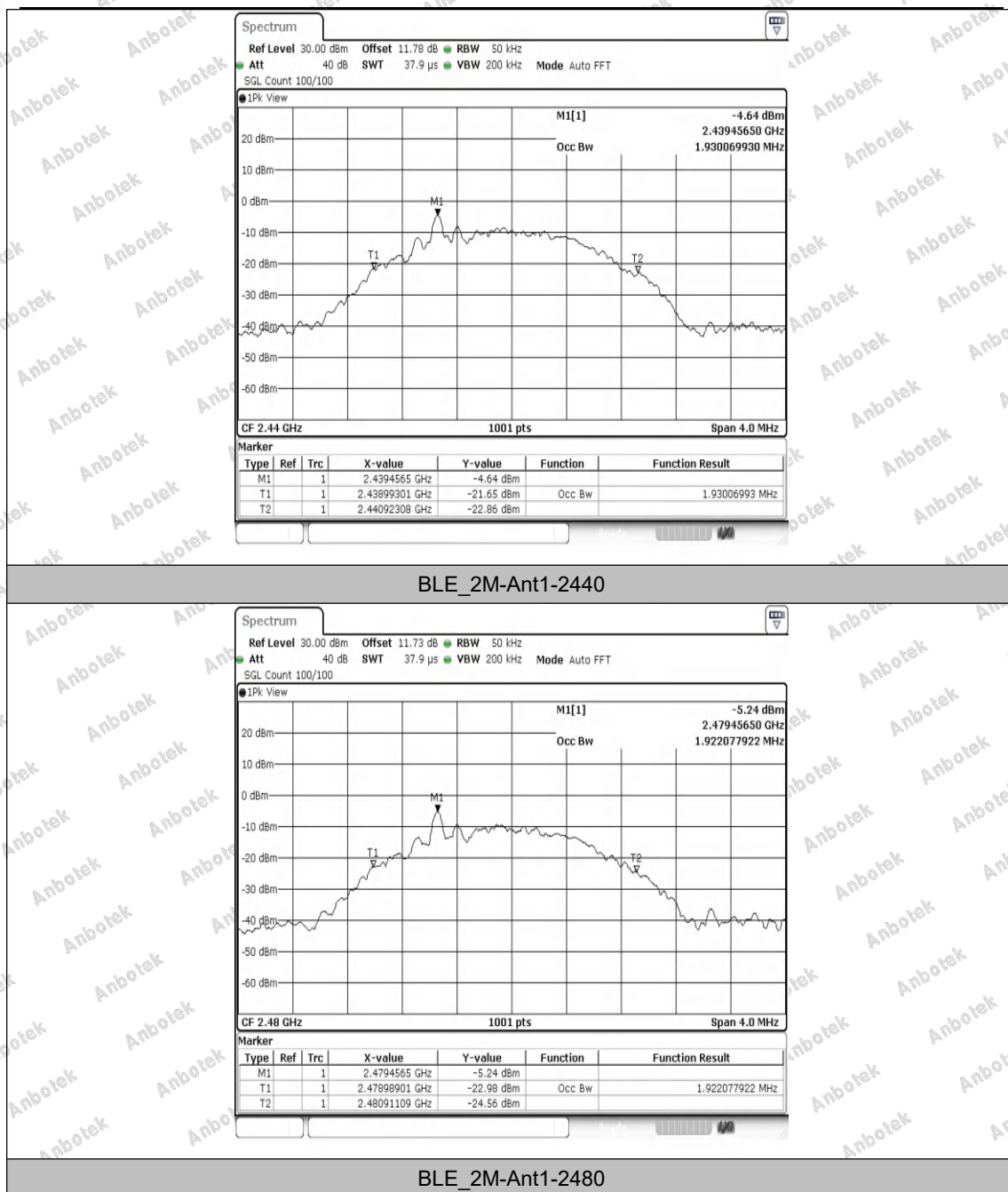


BLE_1M-Ant1-2480



BLE_2M-Ant1-2402





Appendix C: Maximum conducted output power

Test Result Peak

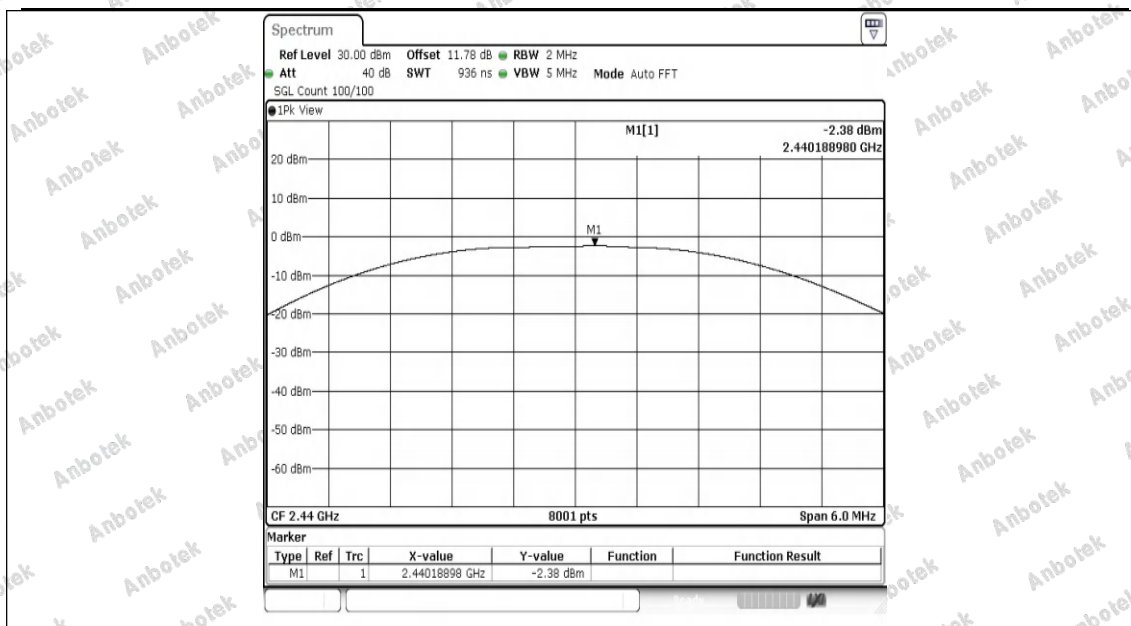
TestMode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.32	≤30	PASS
BLE_1M	Ant1	2440	-2.25	≤30	PASS
BLE_1M	Ant1	2480	-3.30	≤30	PASS
BLE_2M	Ant1	2402	-2.36	≤30	PASS
BLE_2M	Ant1	2440	-2.38	≤30	PASS
BLE_2M	Ant1	2480	-3.43	≤30	PASS



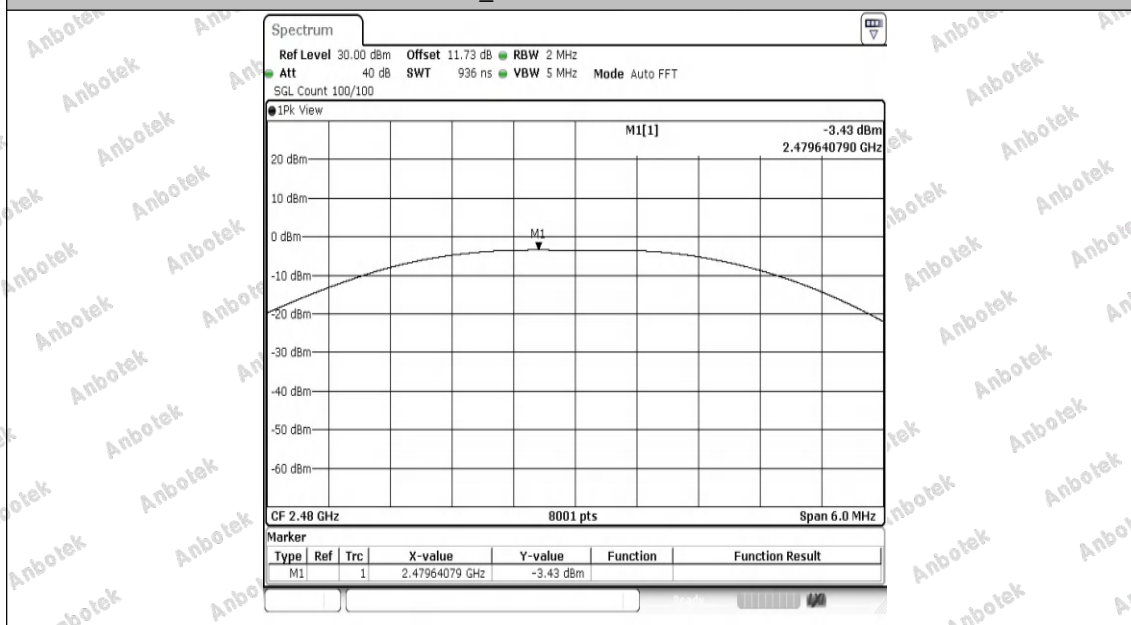
Test Graphs Peak







BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



Appendix D: Maximum power spectral density

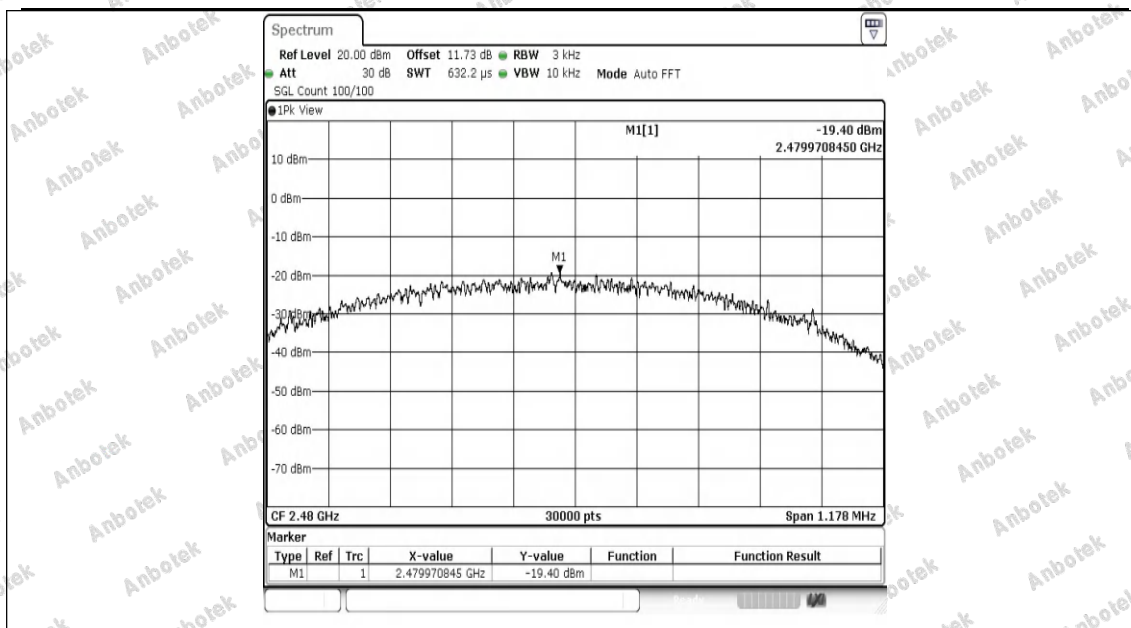
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.92	≤8.00	PASS
BLE_1M	Ant1	2440	-17.87	≤8.00	PASS
BLE_1M	Ant1	2480	-19.40	≤8.00	PASS
BLE_2M	Ant1	2402	-21.29	≤8.00	PASS
BLE_2M	Ant1	2440	-21.12	≤8.00	PASS
BLE_2M	Ant1	2480	-22.46	≤8.00	PASS

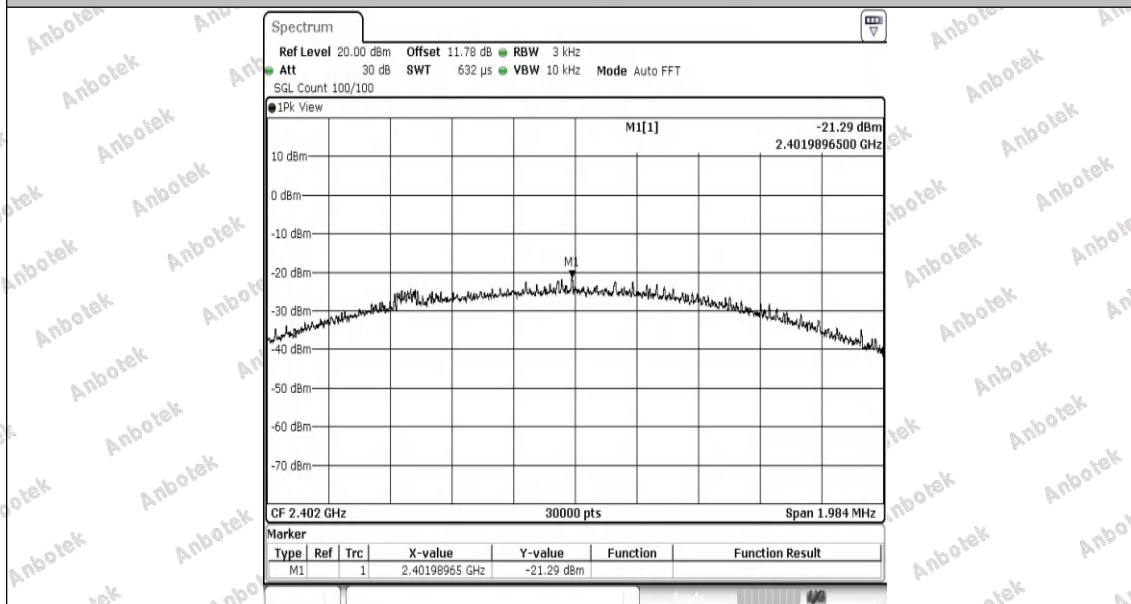


Test Graphs



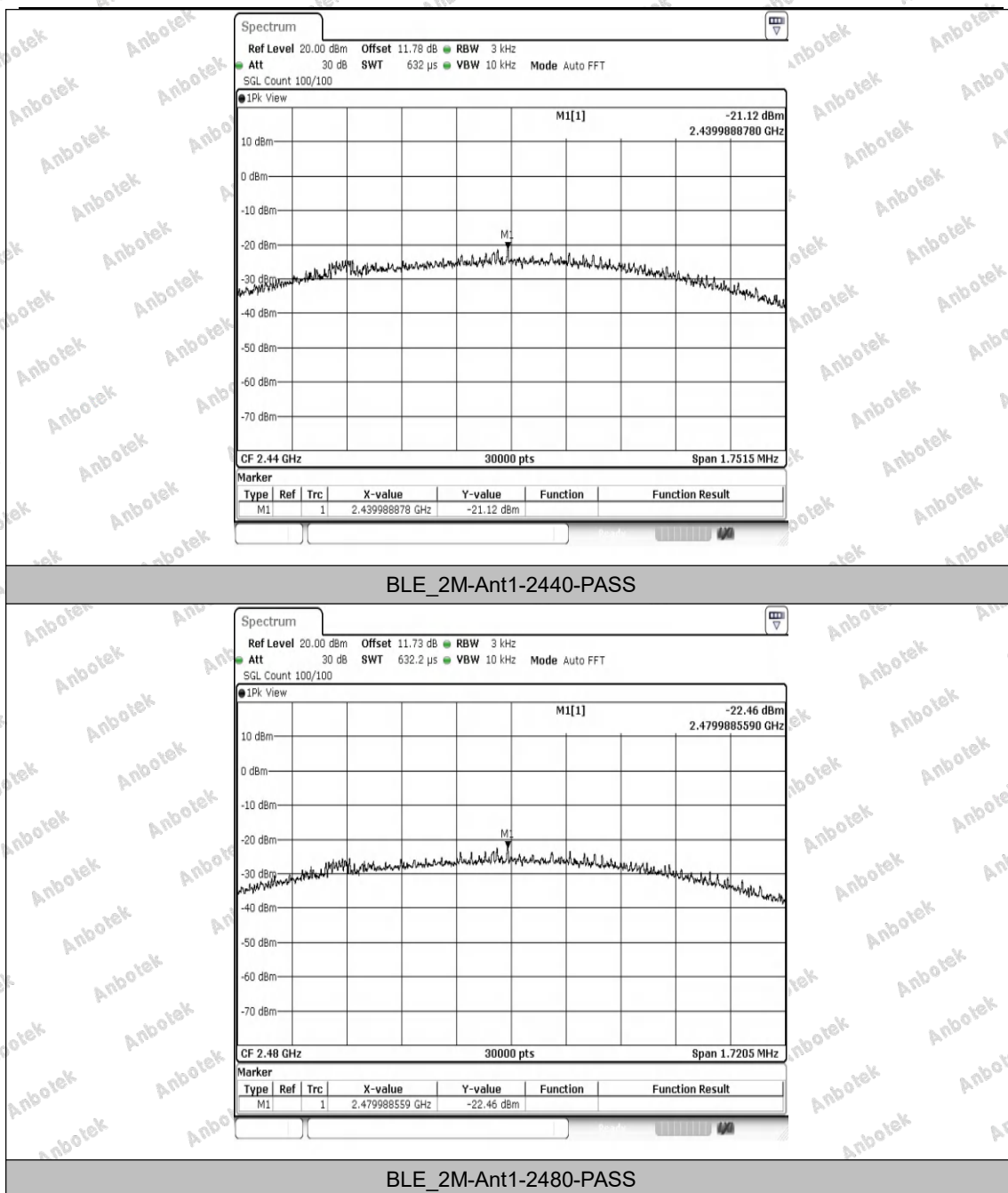


BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS





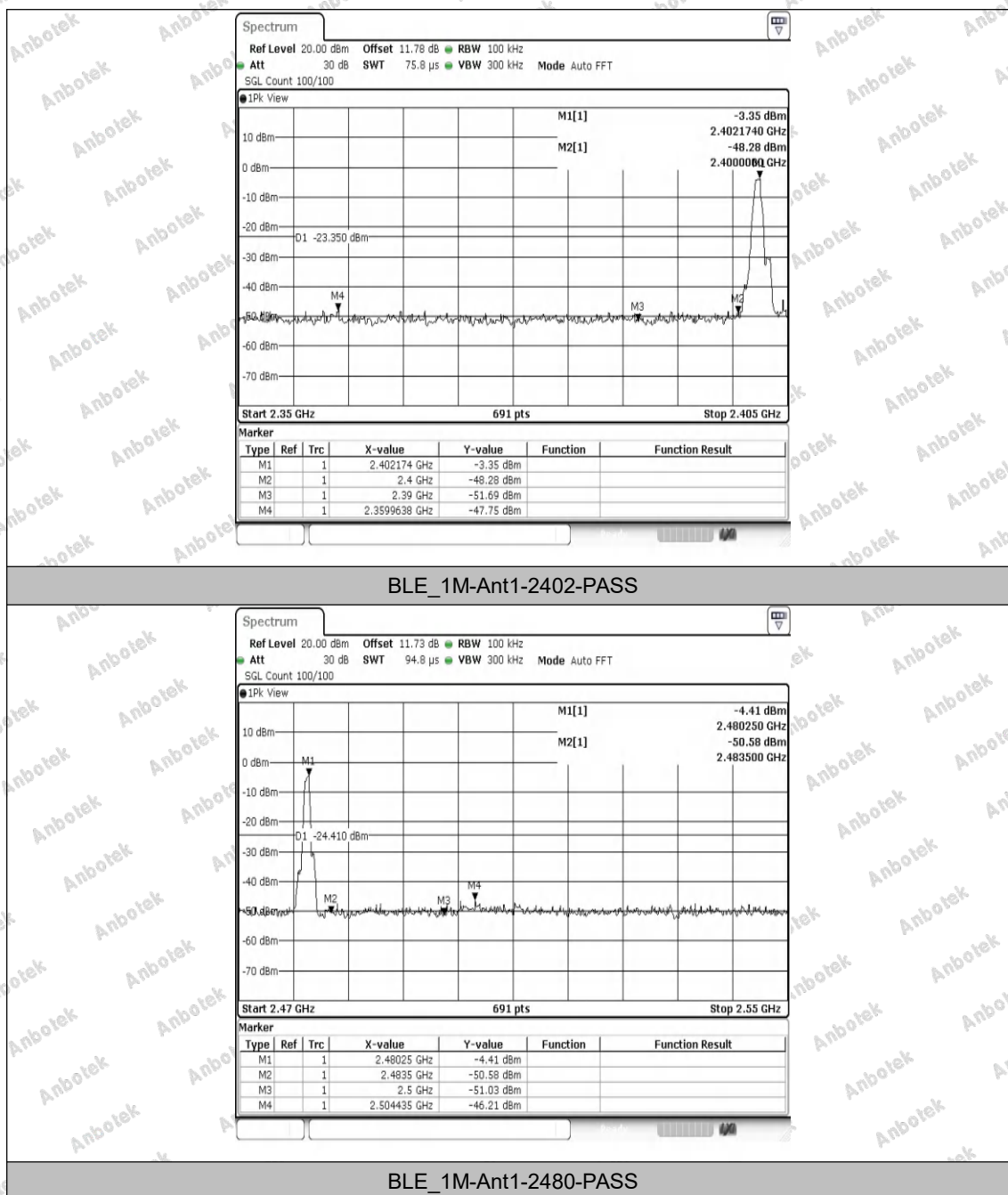
Appendix F: Band edge measurements

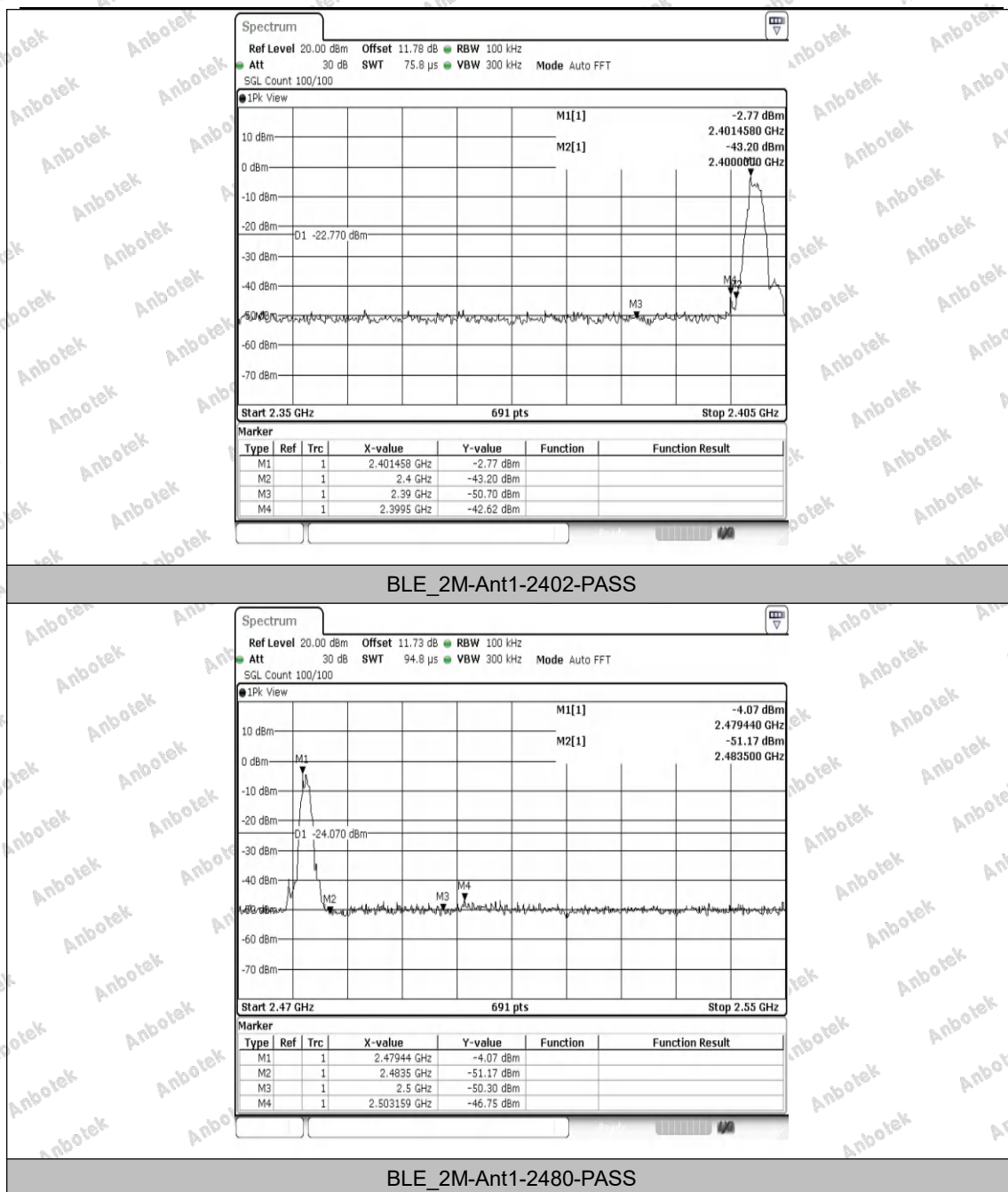
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.35	-47.75	≤-23.35	PASS
BLE_1M	Ant1	High	2480	-4.41	-46.21	≤-24.41	PASS
BLE_2M	Ant1	Low	2402	-2.77	-42.62	≤-22.77	PASS
BLE_2M	Ant1	High	2480	-4.07	-46.75	≤-24.07	PASS



Test Graphs





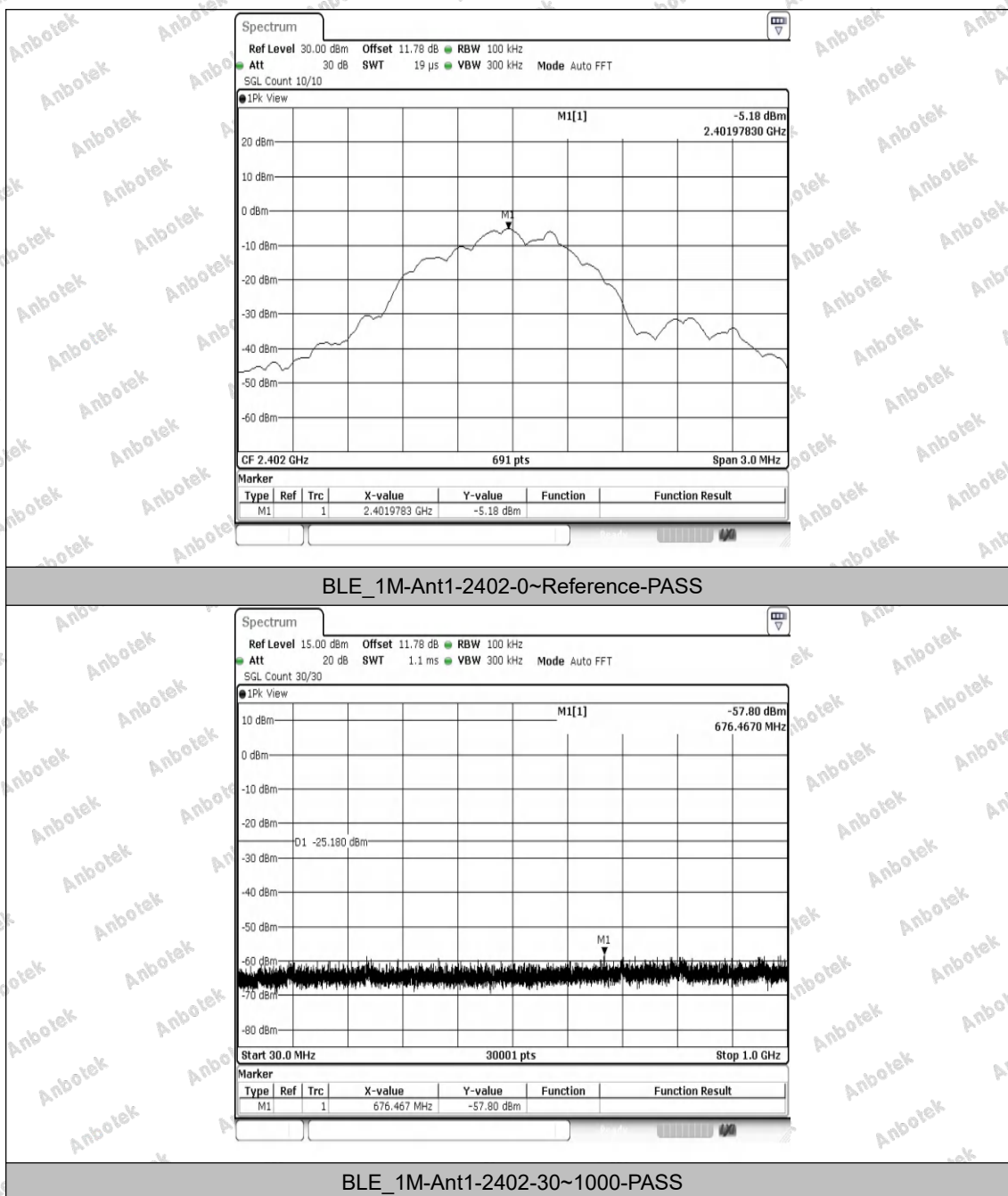
Appendix G: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-5.18	-5.18	---	PASS
BLE_1M	Ant1	2402	30~1000	-5.18	-57.8	≤-25.18	PASS
BLE_1M	Ant1	2402	1000~26500	-5.18	-31.16	≤-25.18	PASS
BLE_1M	Ant1	2440	0~Reference	-4.40	-4.40	---	PASS
BLE_1M	Ant1	2440	30~1000	-4.40	-57.96	≤-24.4	PASS
BLE_1M	Ant1	2440	1000~26500	-4.40	-31.9	≤-24.4	PASS
BLE_1M	Ant1	2480	0~Reference	-5.58	-5.58	---	PASS
BLE_1M	Ant1	2480	30~1000	-5.58	-58.15	≤-25.58	PASS
BLE_1M	Ant1	2480	1000~26500	-5.58	-31.24	≤-25.58	PASS
BLE_2M	Ant1	2402	0~Reference	-7.19	-7.19	---	PASS
BLE_2M	Ant1	2402	30~1000	-7.19	-55.65	≤-27.19	PASS
BLE_2M	Ant1	2402	1000~26500	-7.19	-32.66	≤-27.19	PASS
BLE_2M	Ant1	2440	0~Reference	-6.02	-6.02	---	PASS
BLE_2M	Ant1	2440	30~1000	-6.02	-57.23	≤-26.02	PASS
BLE_2M	Ant1	2440	1000~26500	-6.02	-32.67	≤-26.02	PASS
BLE_2M	Ant1	2480	0~Reference	-4.08	-4.08	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.08	-57.83	≤-24.08	PASS
BLE_2M	Ant1	2480	1000~26500	-4.08	-32.32	≤-24.08	PASS



Test Graphs



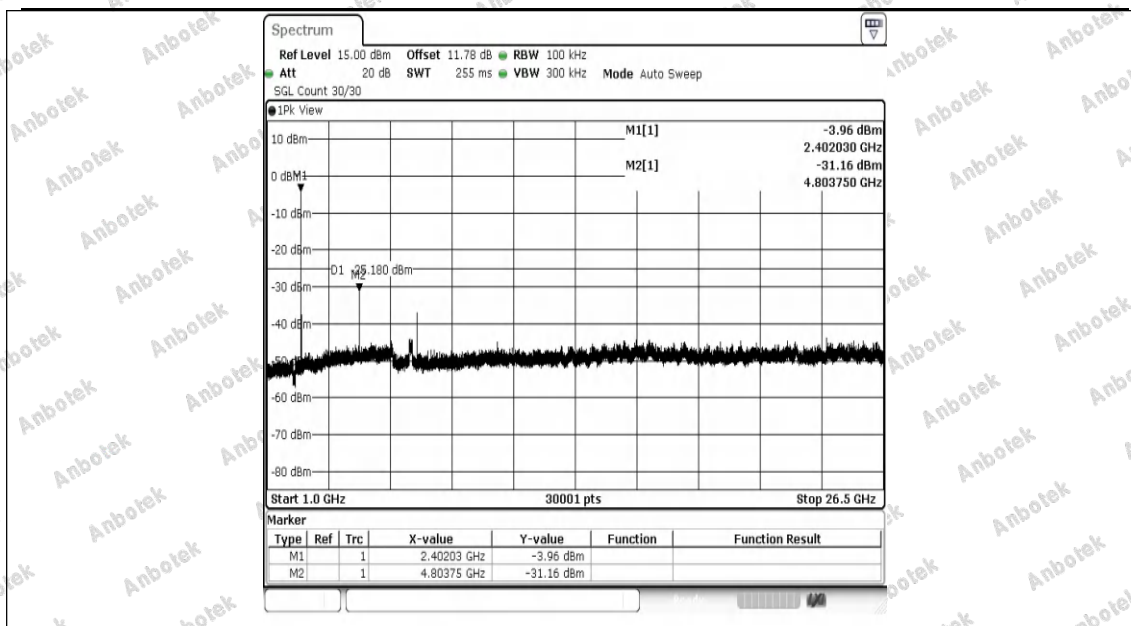
Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hahgcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Email: service@anbotek.com

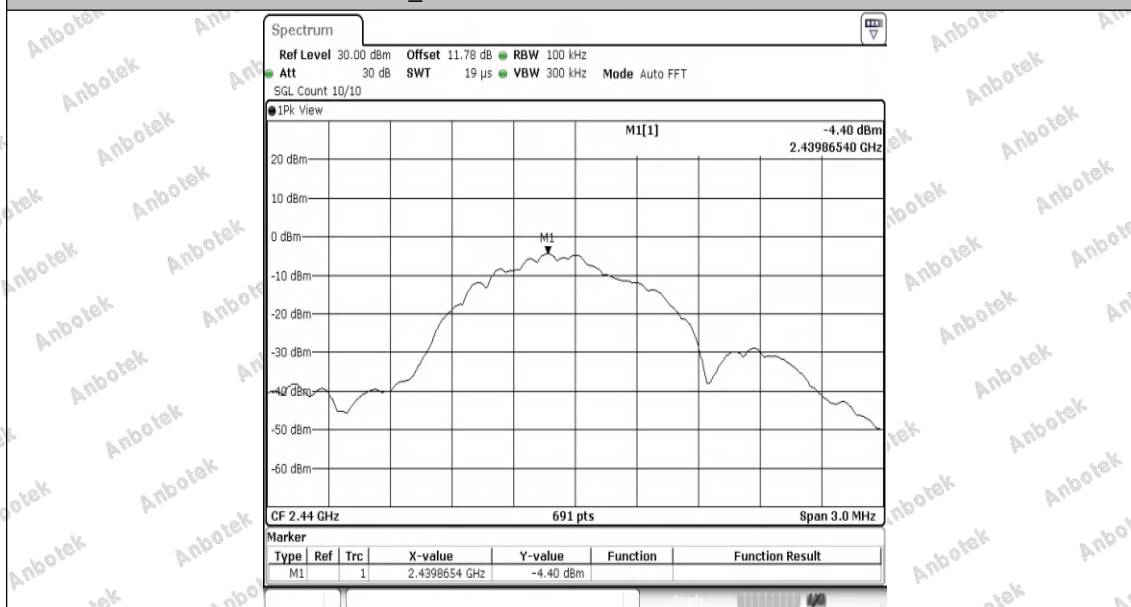


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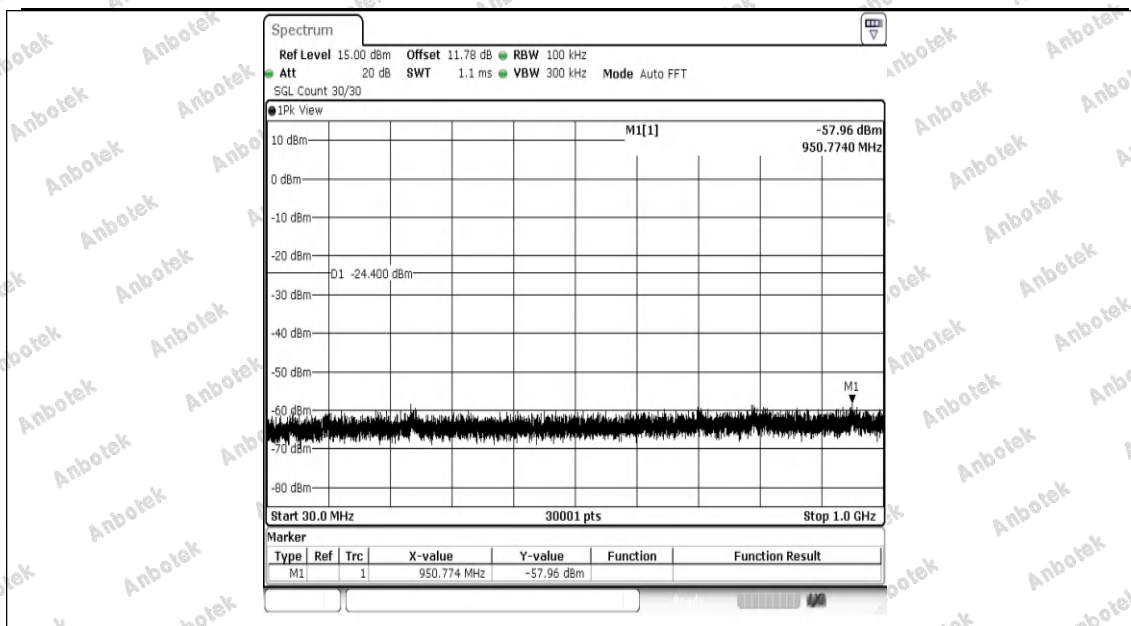


BLE_1M-Ant1-2402-1000~26500-PASS

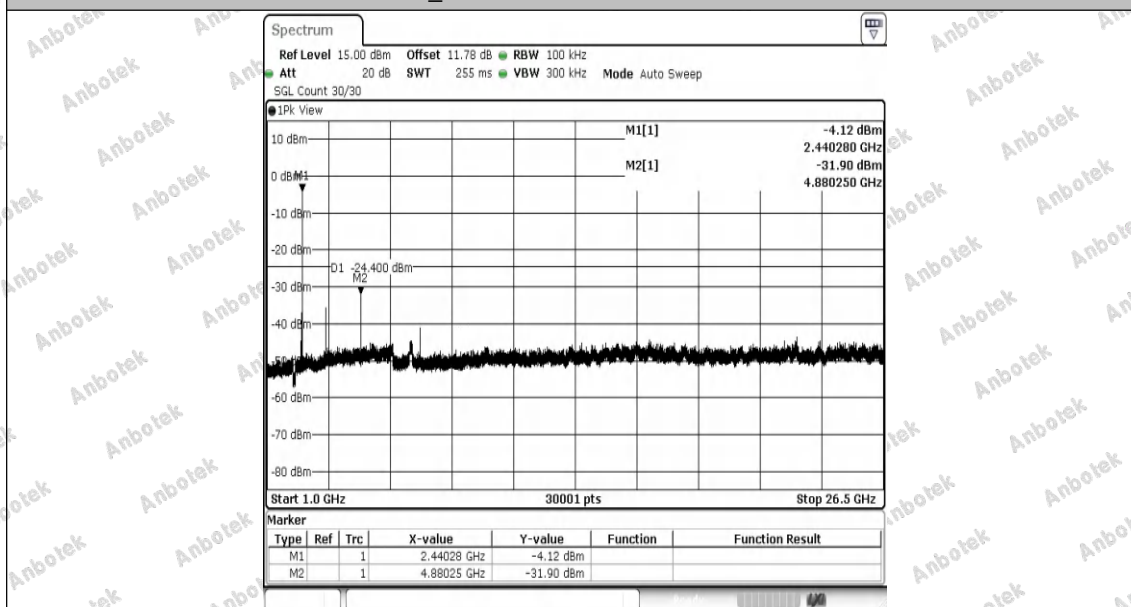


BLE_1M-Ant1-2440-0~Reference-PASS



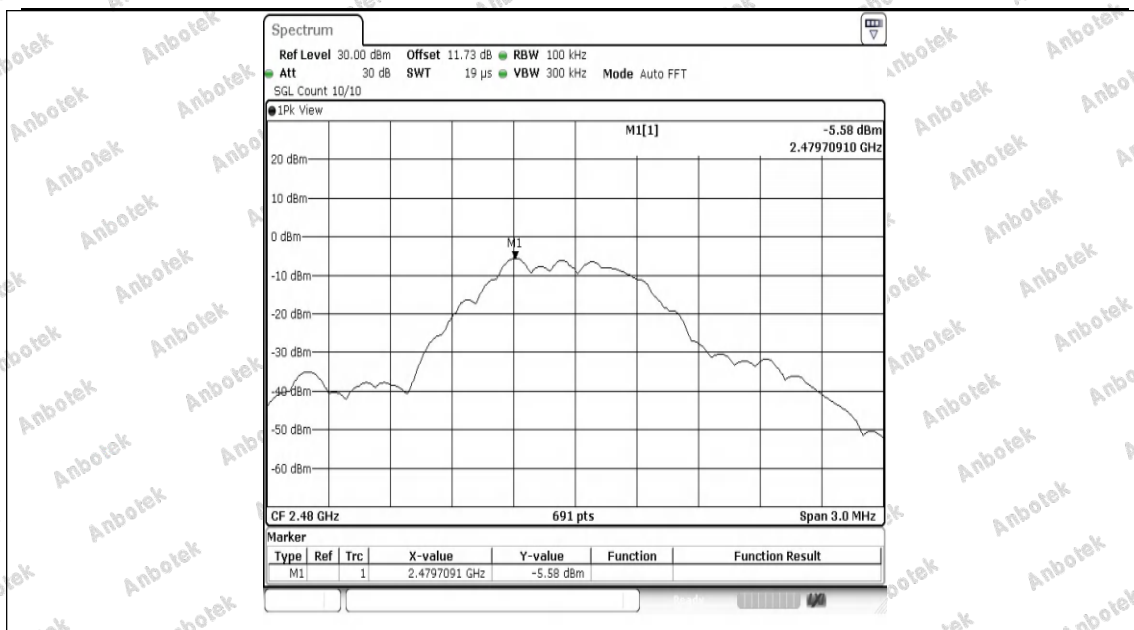


BLE_1M-Ant1-2440-30~1000-PASS

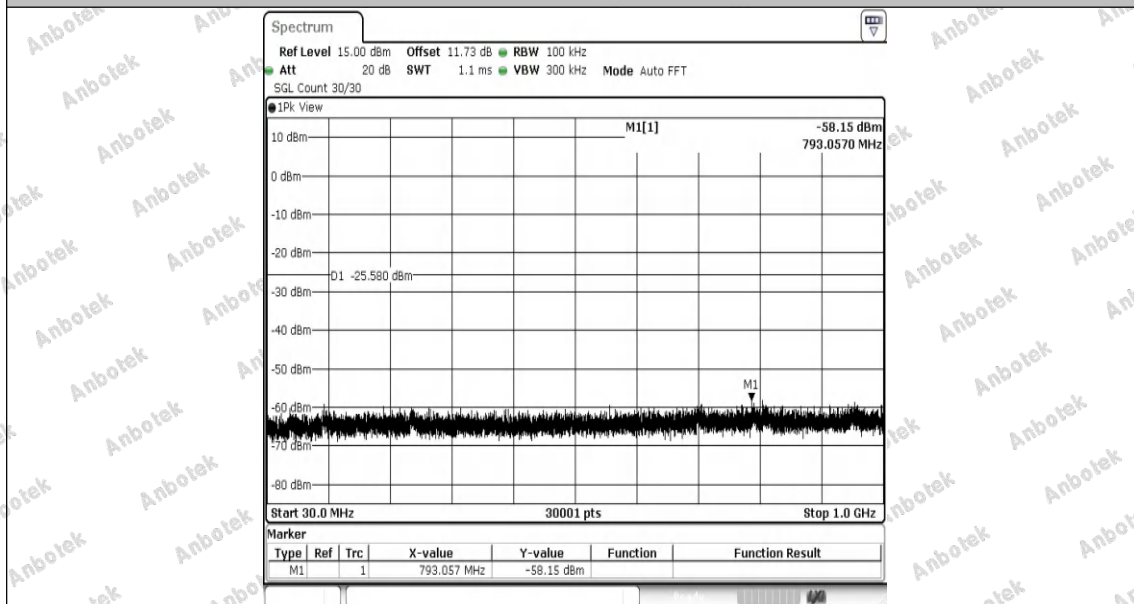


BLE_1M-Ant1-2440-1000~26500-PASS



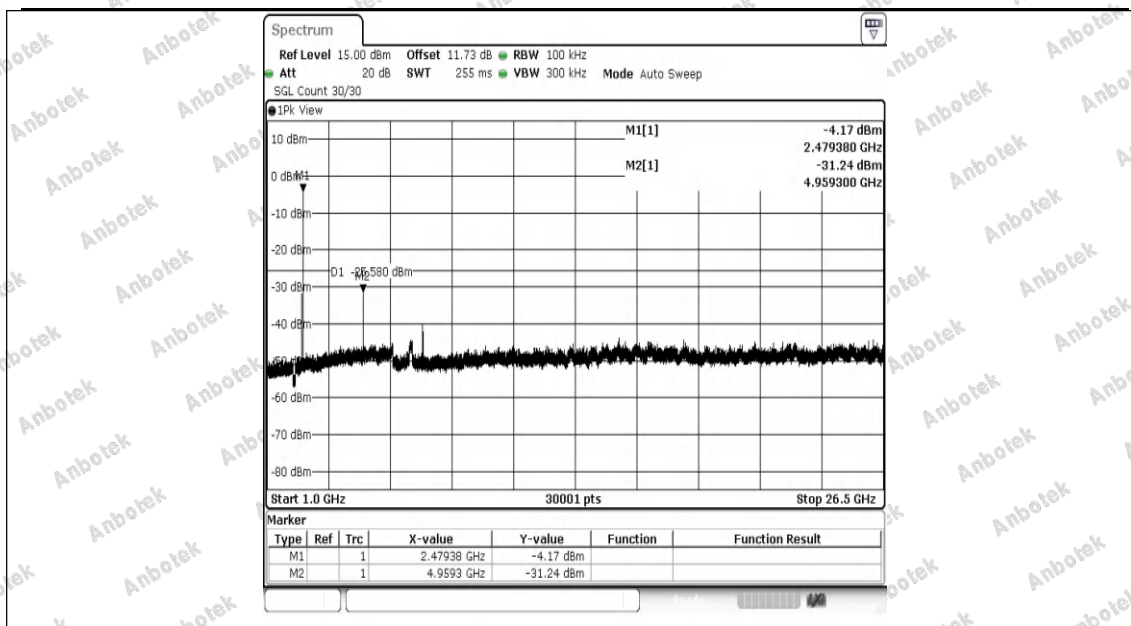


BLE_1M-Ant1-2480-0~Reference-PASS

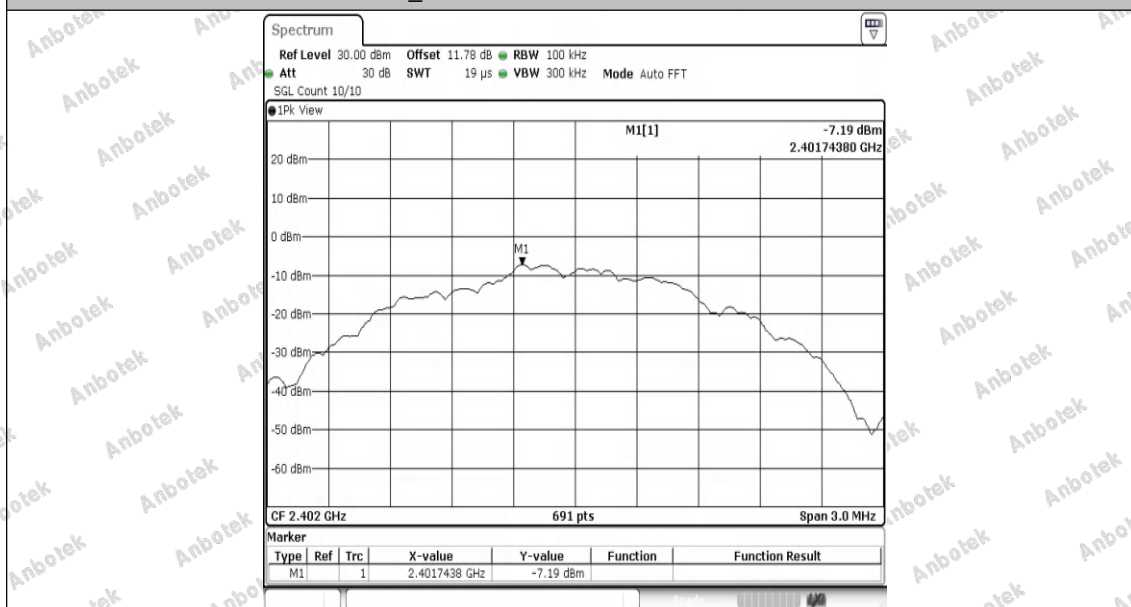


BLE_1M-Ant1-2480-30~1000-PASS



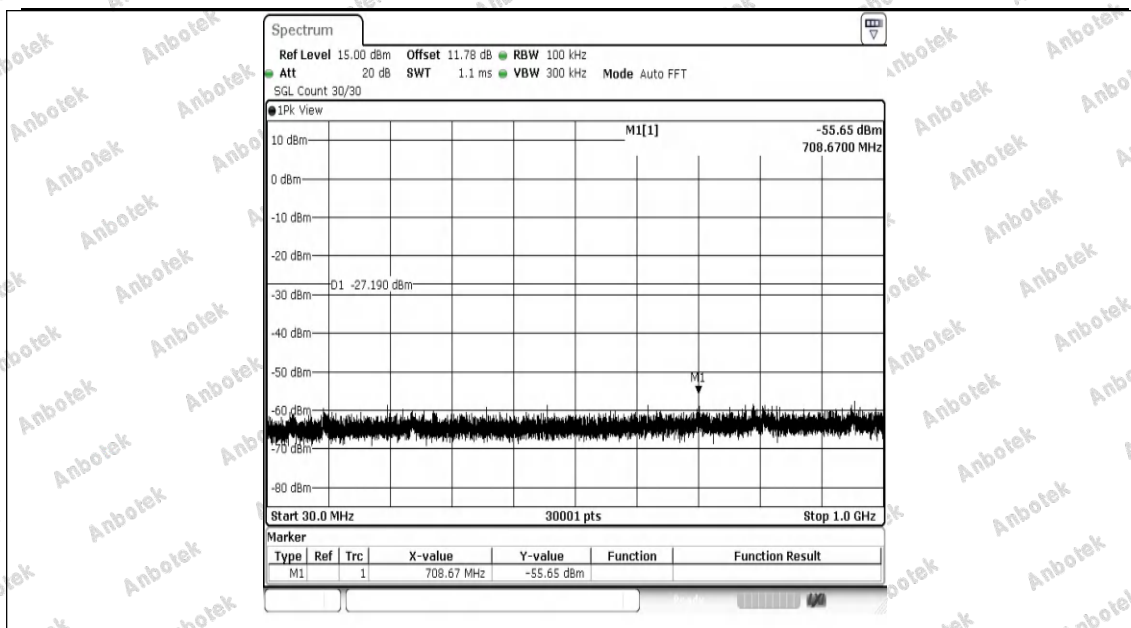


BLE_1M-Ant1-2480-1000~26500-PASS

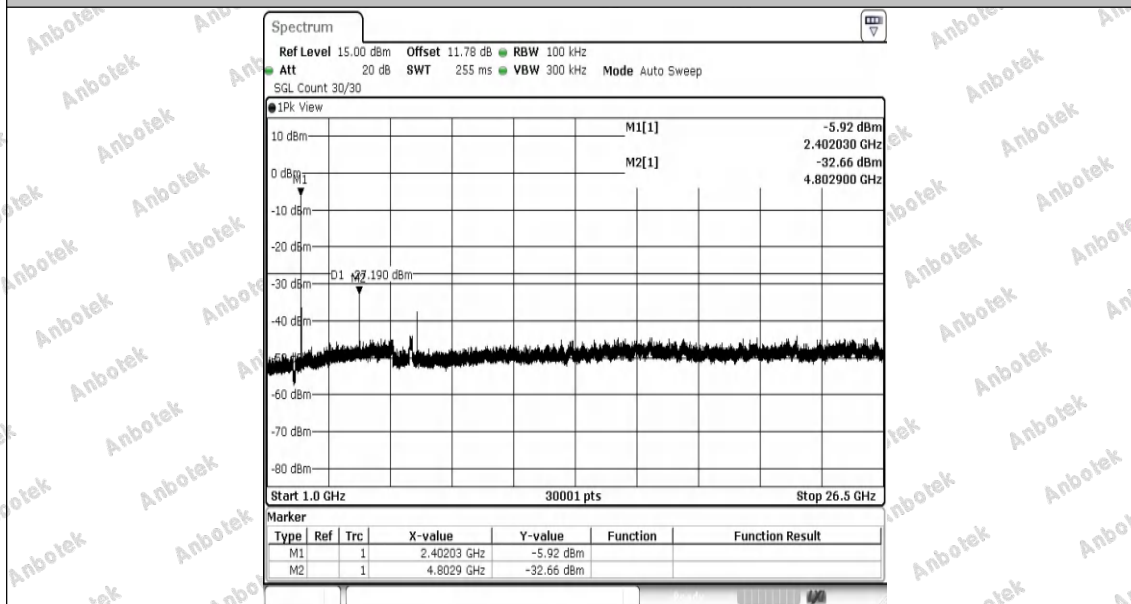


BLE_2M-Ant1-2402-0~Reference-PASS



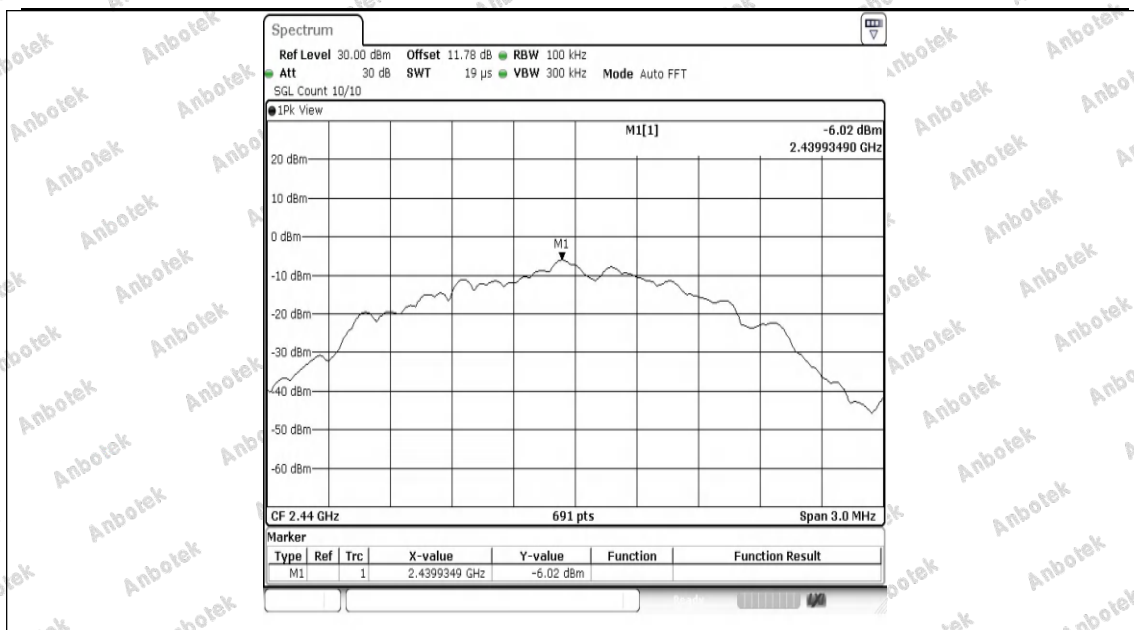


BLE_2M-Ant1-2402-30~1000-PASS

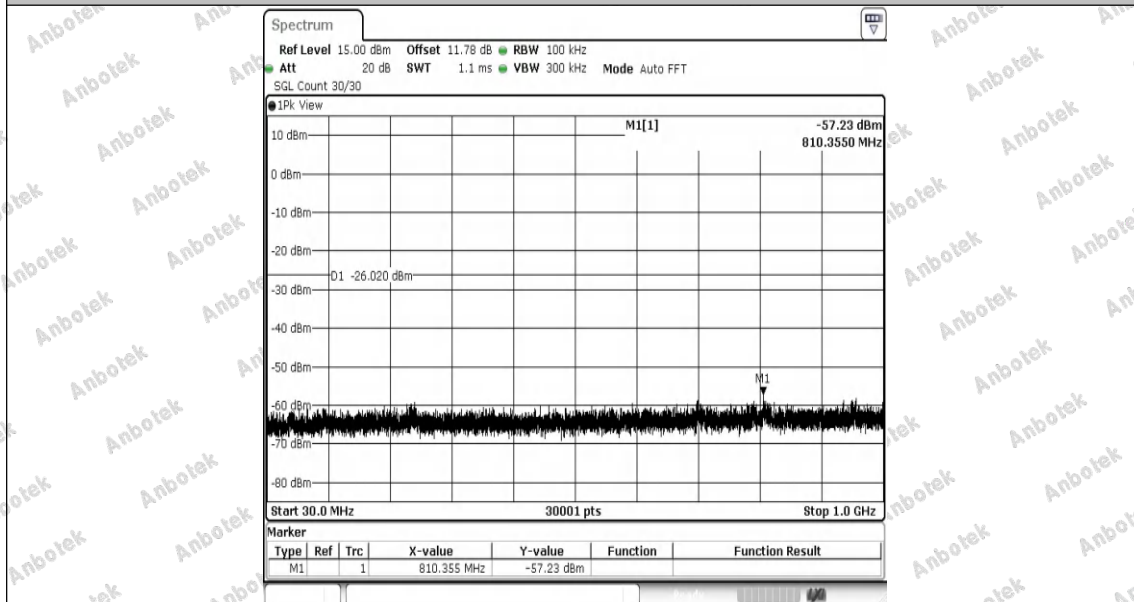


BLE_2M-Ant1-2402-1000~26500-PASS



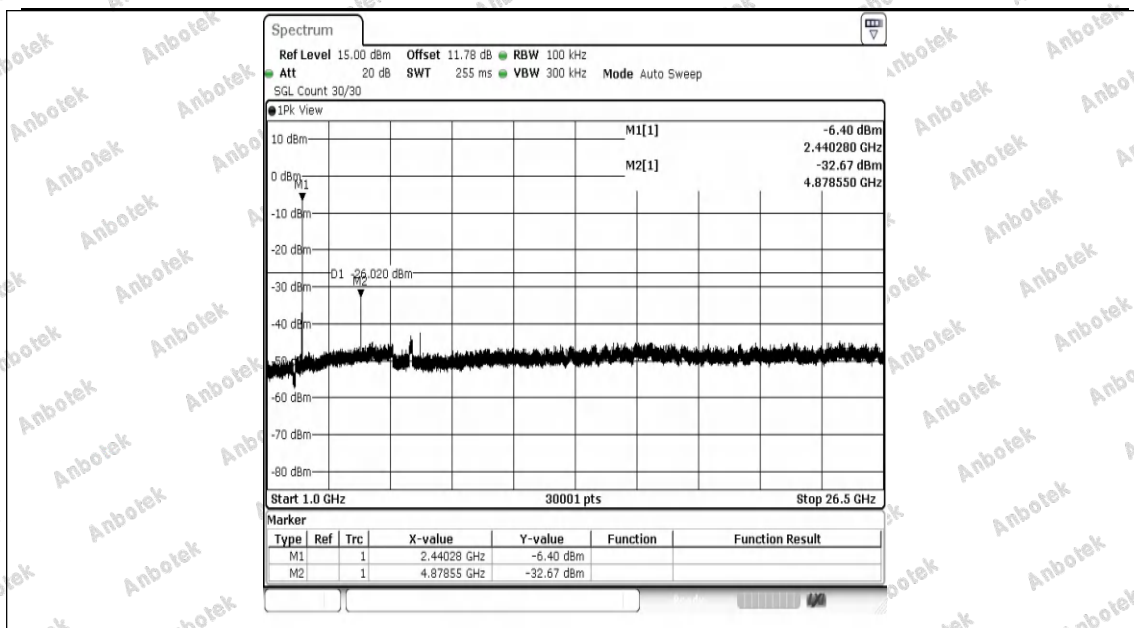


BLE_2M-Ant1-2440-0~Reference-PASS

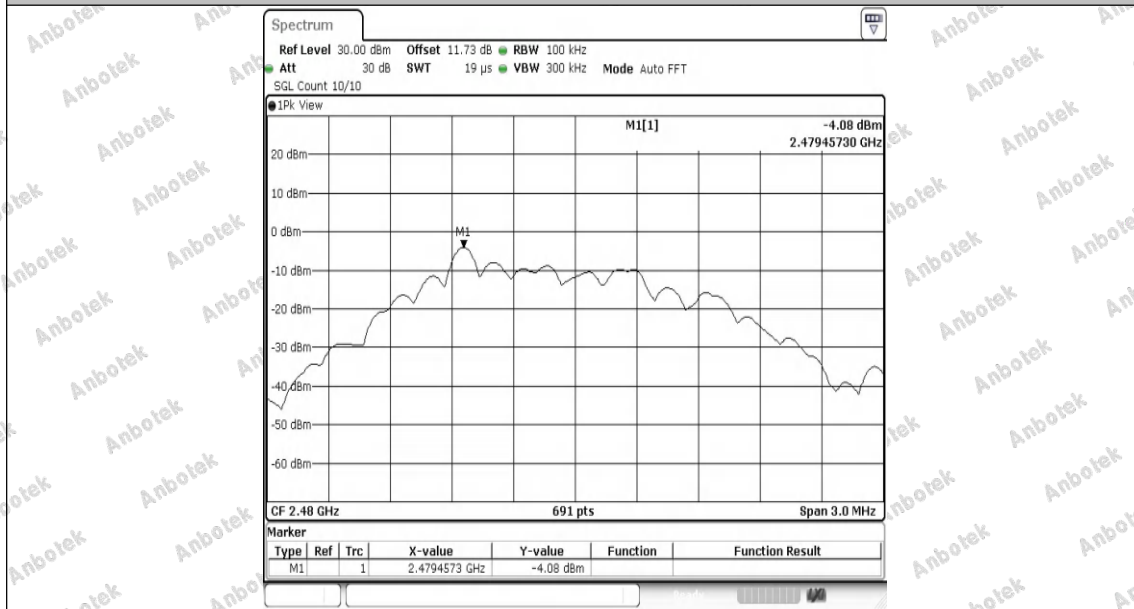


BLE_2M-Ant1-2440-30~1000-PASS



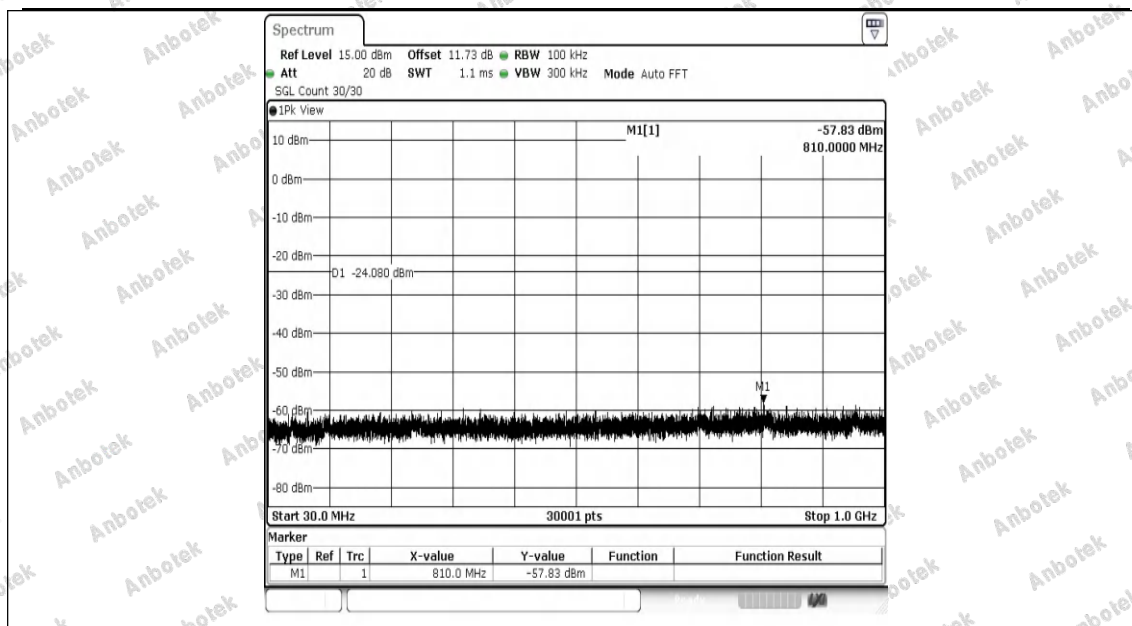


BLE_2M-Ant1-2440-1000~26500-PASS

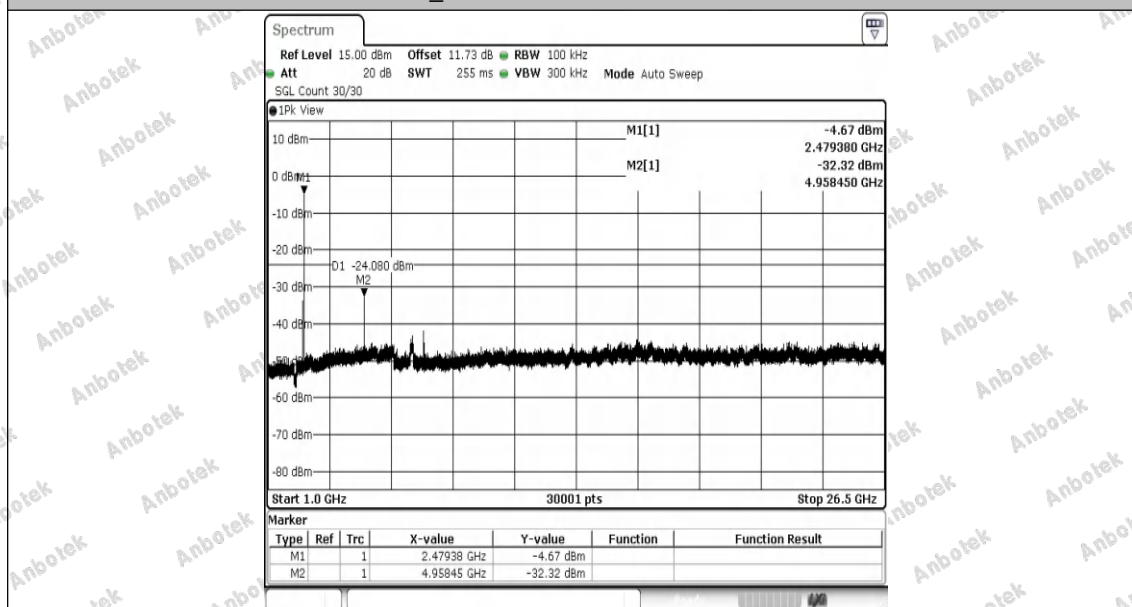


BLE_2M-Ant1-2480-0~Reference-PASS





BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



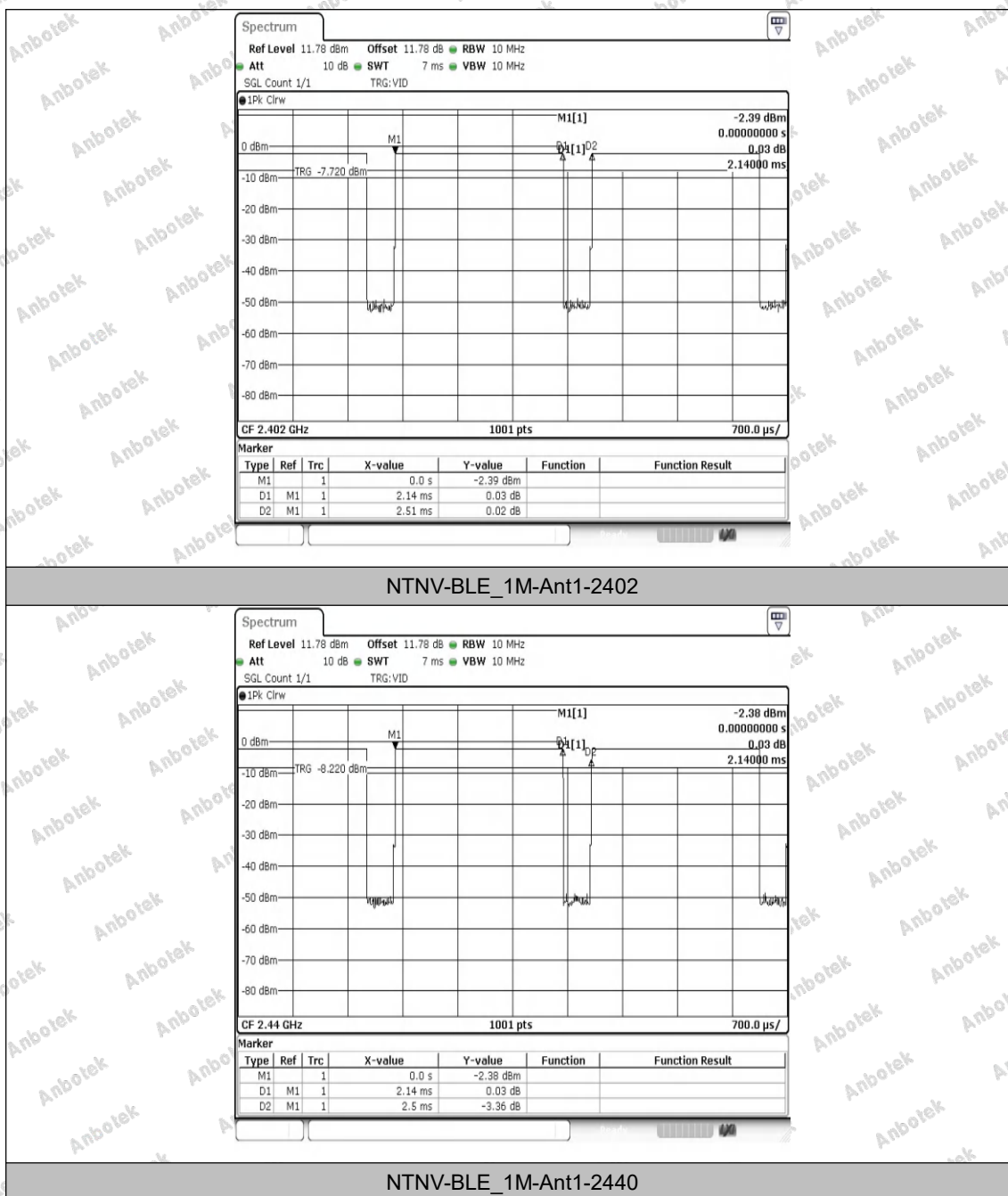
Appendix H: Duty Cycle

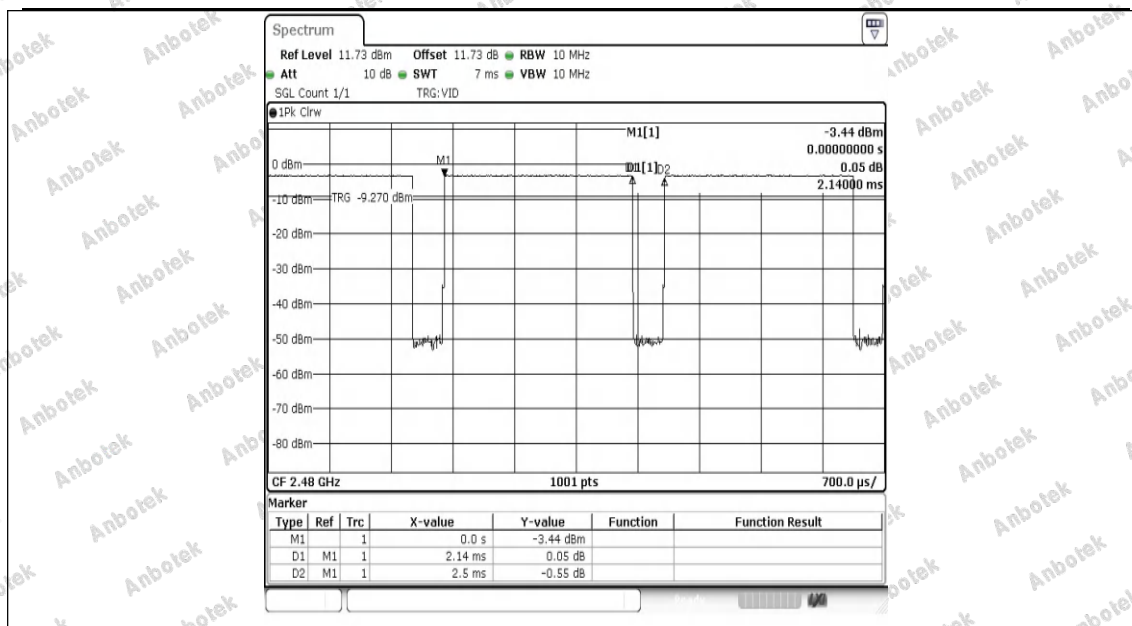
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.51	85.26	0.69
BLE_1M	Ant1	2440	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2402	1.07	1.24	86.29	0.64
BLE_2M	Ant1	2440	1.08	1.25	86.40	0.63
BLE_2M	Ant1	2480	1.08	1.24	87.10	0.60

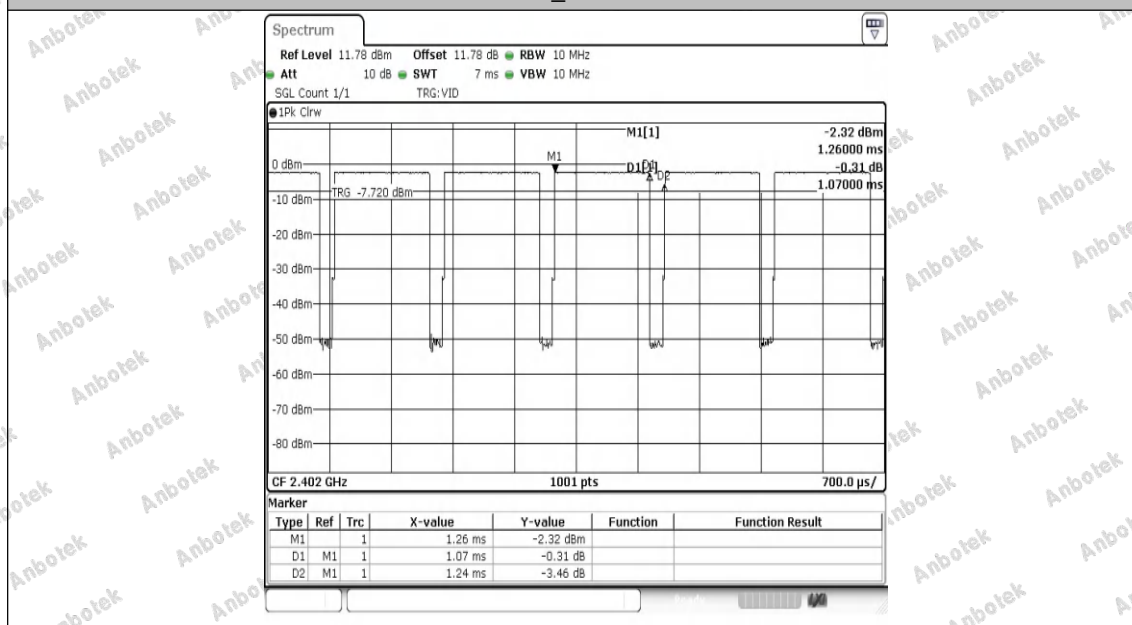


Test Graphs



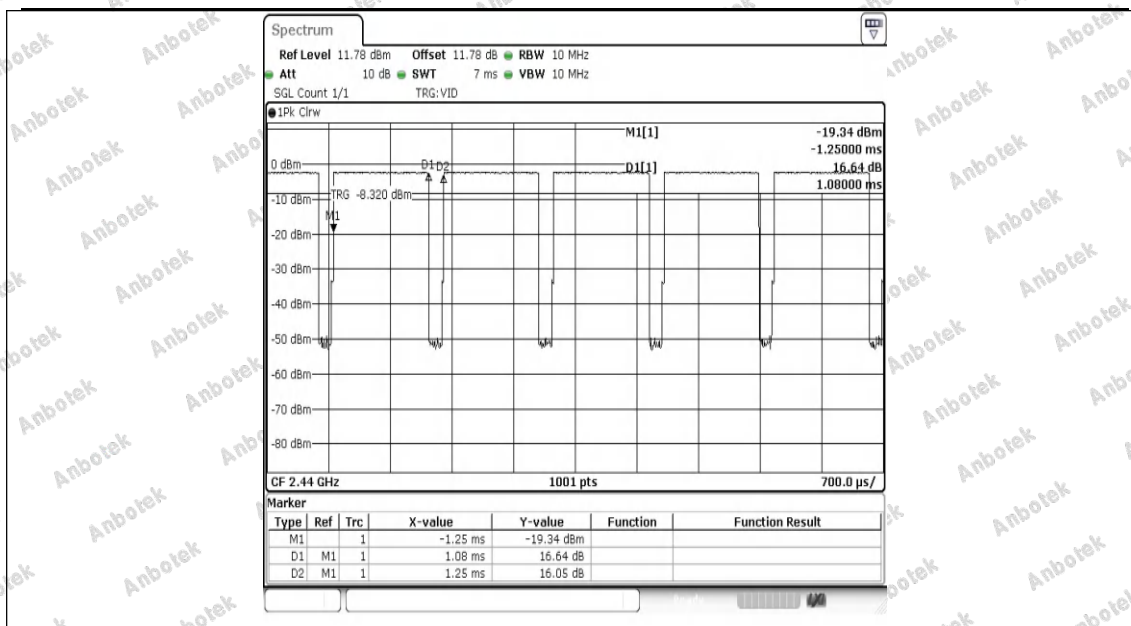


NTNV-BLE_1M-Ant1-2480

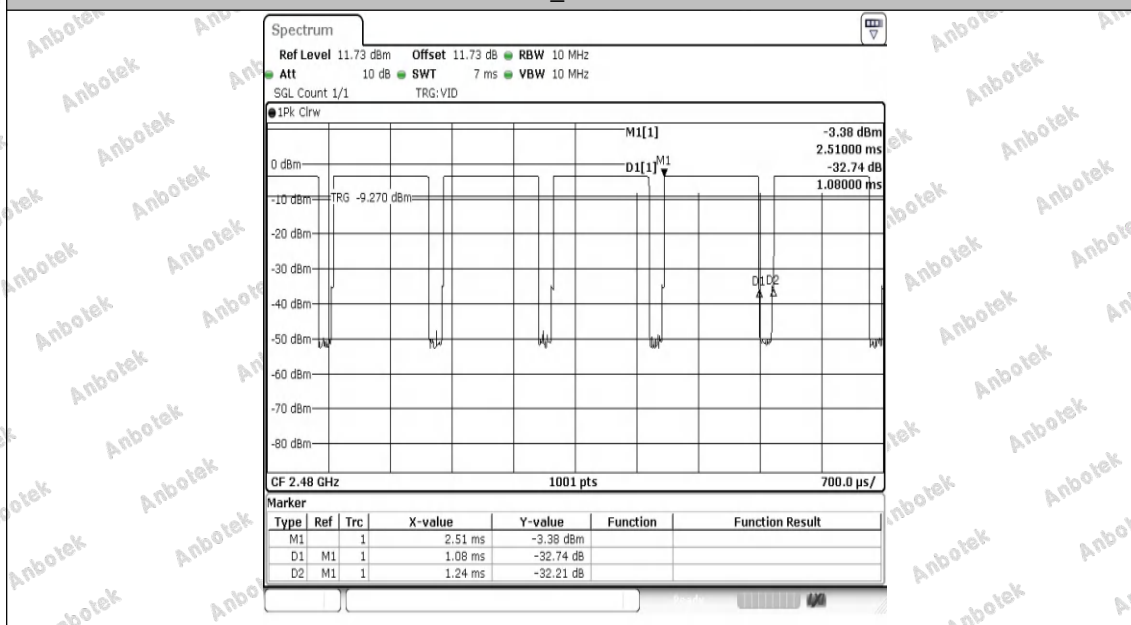


NTNV-BLE_2M-Ant1-2402





NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---END---

