

Appendix Test Data

Report No:	182518C400022101	Test Sample NO:	1-2-2
Start Test Date:	2024.6.24	Finish Test Date:	2024.6.25
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	45%
Pressure:	101 kPa		

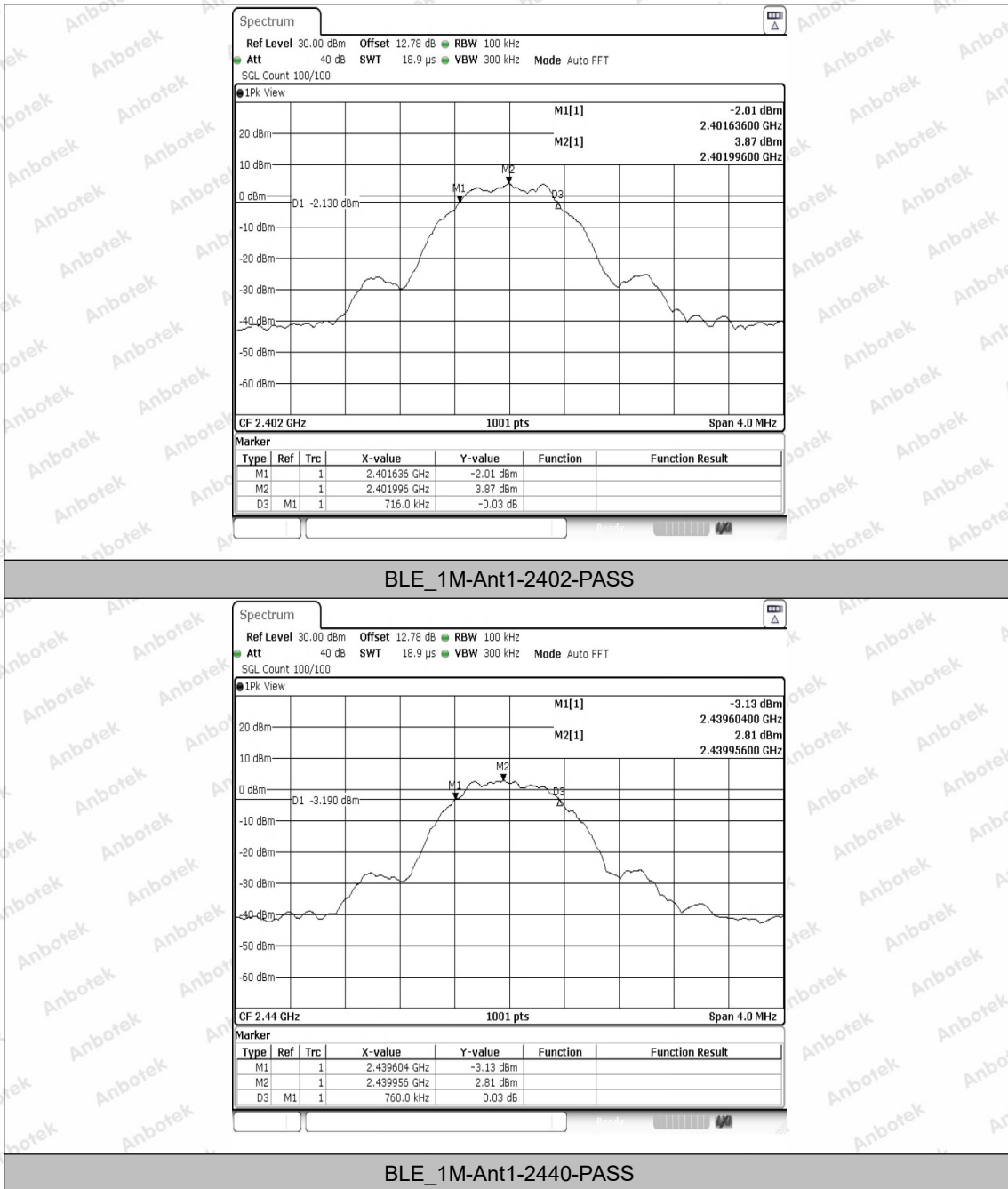
Appendix A: DTS Bandwidth

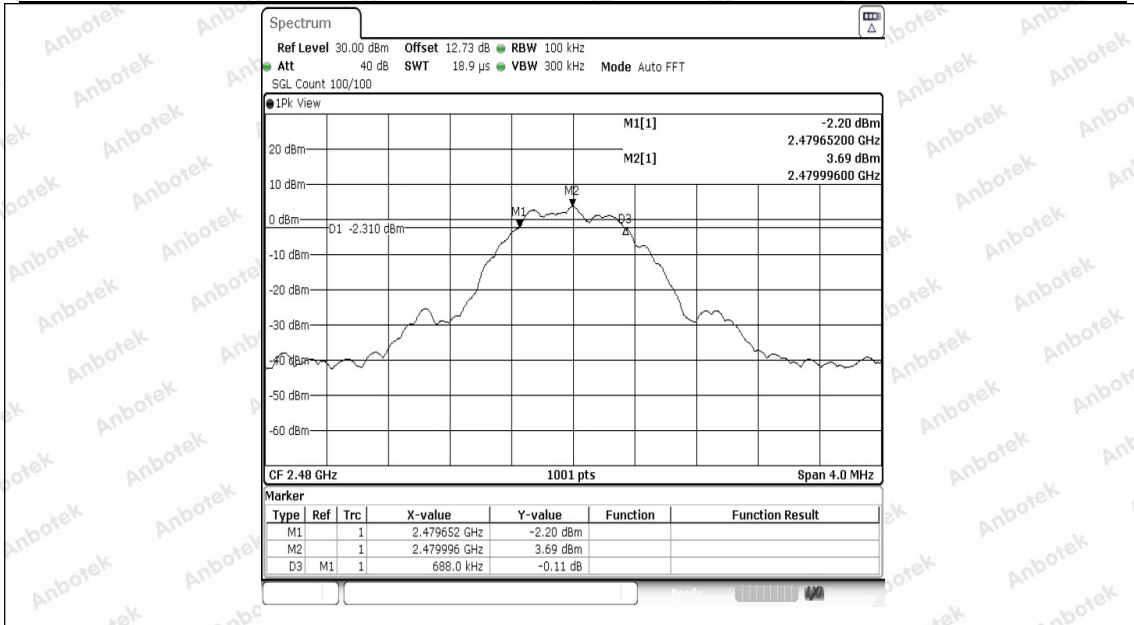
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.64	2402.35	0.5	PASS
BLE_1M	Ant1	2440	0.76	2439.60	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.69	2479.65	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.10	2401.44	2402.54	0.5	PASS
BLE_2M	Ant1	2440	0.89	2439.55	2440.44	0.5	PASS
BLE_2M	Ant1	2480	1.14	2479.43	2480.57	0.5	PASS

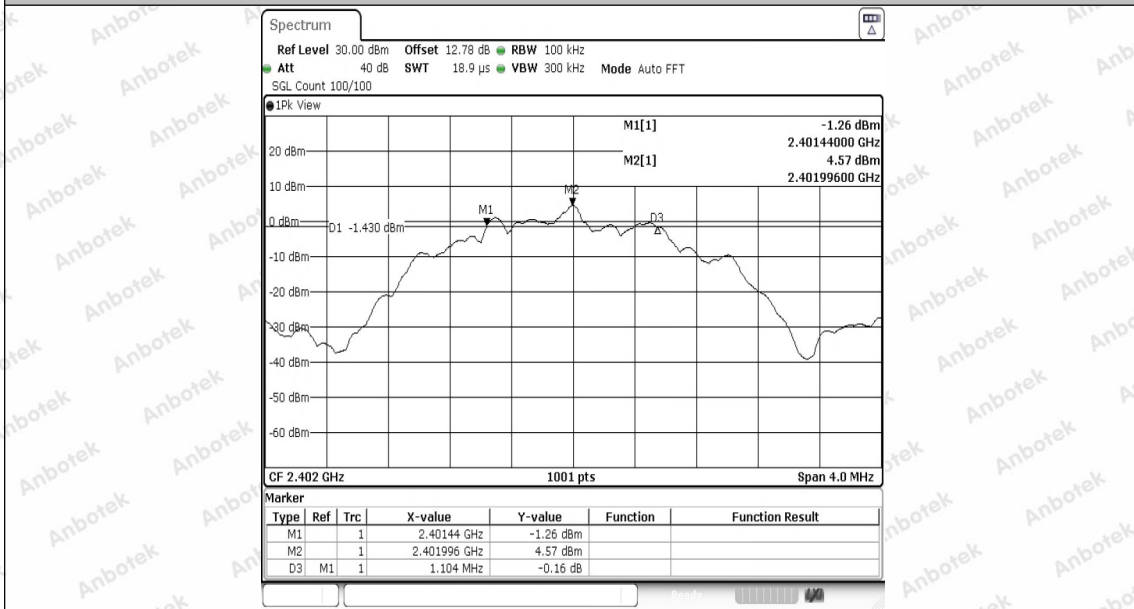


Test Graphs



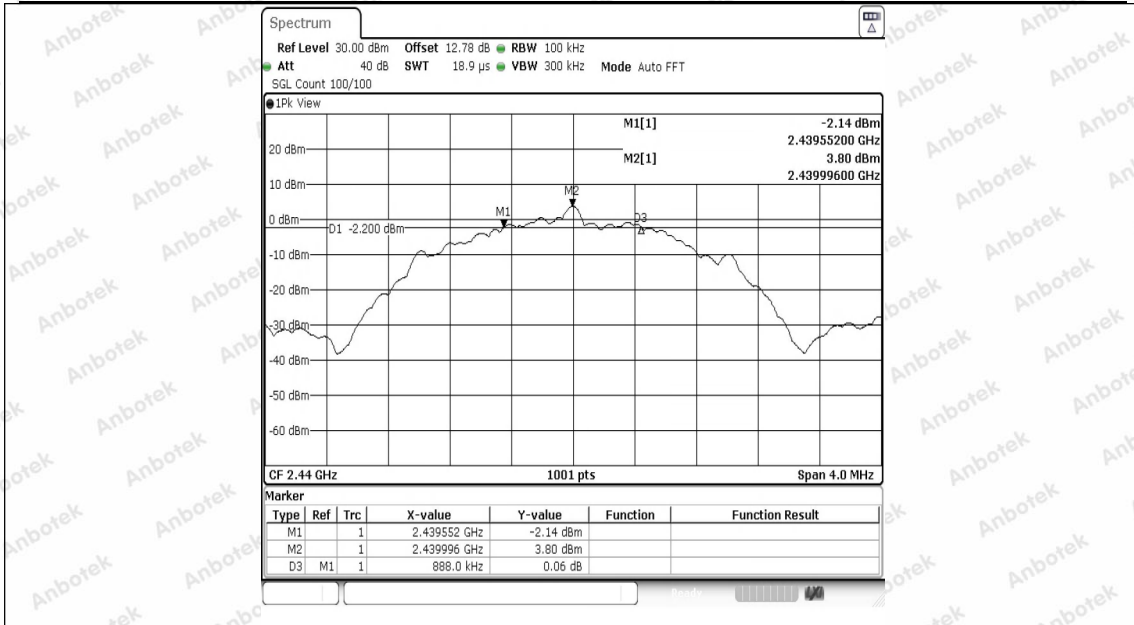


BLE_1M-Ant1-2480-PASS

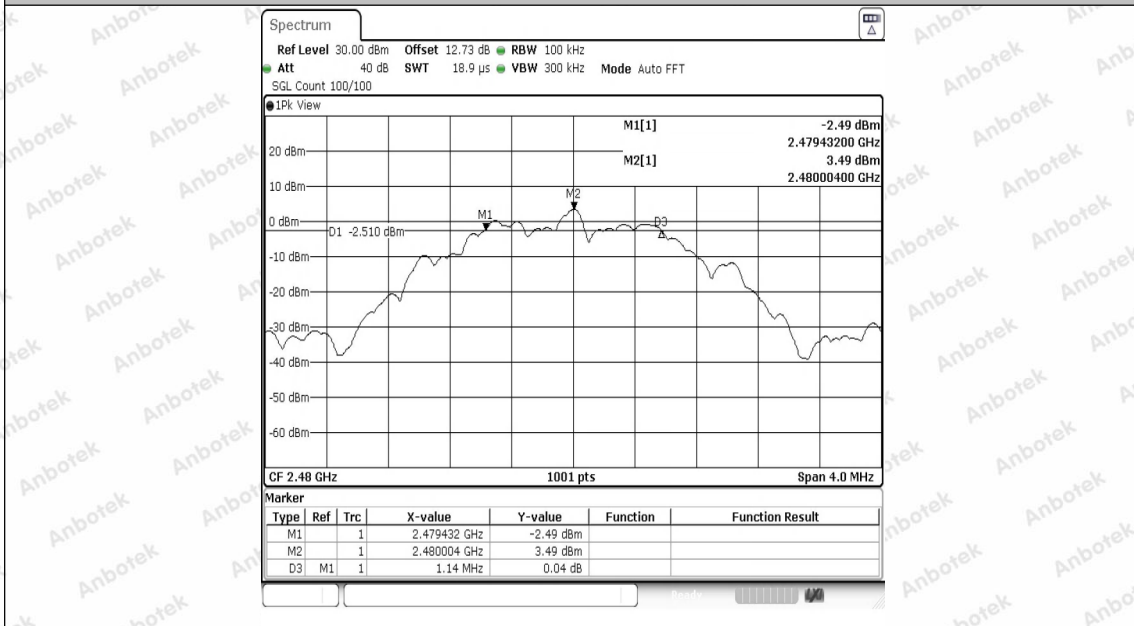


BLE_2M-Ant1-2402-PASS





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	1.039	2401.4805	2402.5195	---	---
BLE_1M	Ant1	2440	1.043	2439.4805	2440.5235	---	---
BLE_1M	Ant1	2480	1.051	2479.4765	2480.5275	---	---
BLE_2M	Ant1	2402	2.014	2401.0050	2403.0190	---	---
BLE_2M	Ant1	2440	2.042	2438.9930	2441.0350	---	---
BLE_2M	Ant1	2480	2.062	2478.9730	2481.0350	---	---

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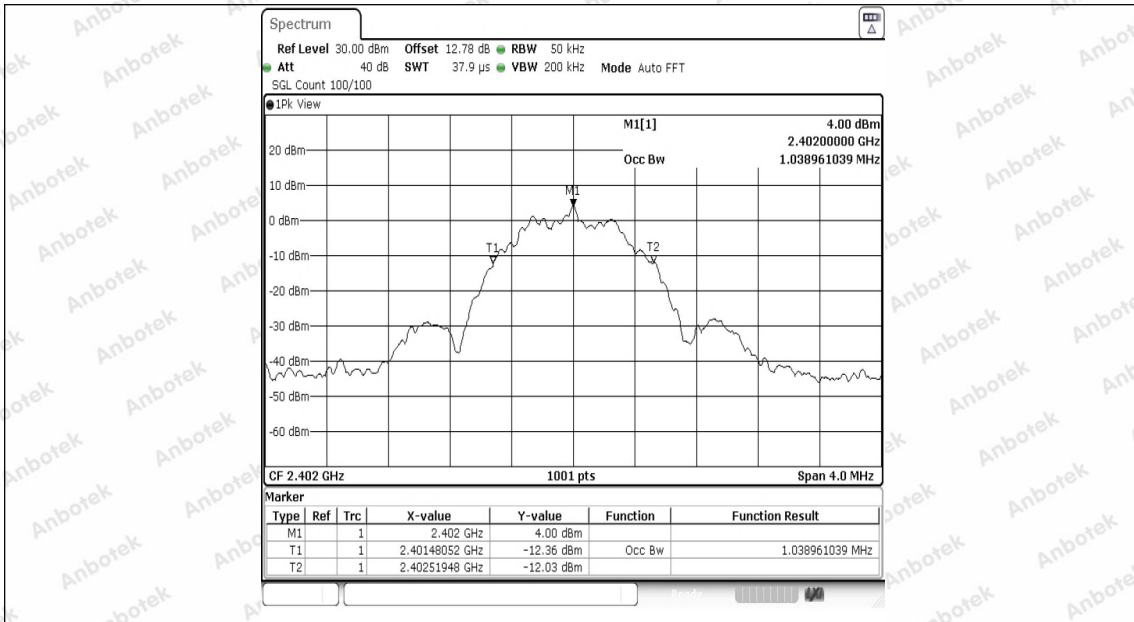
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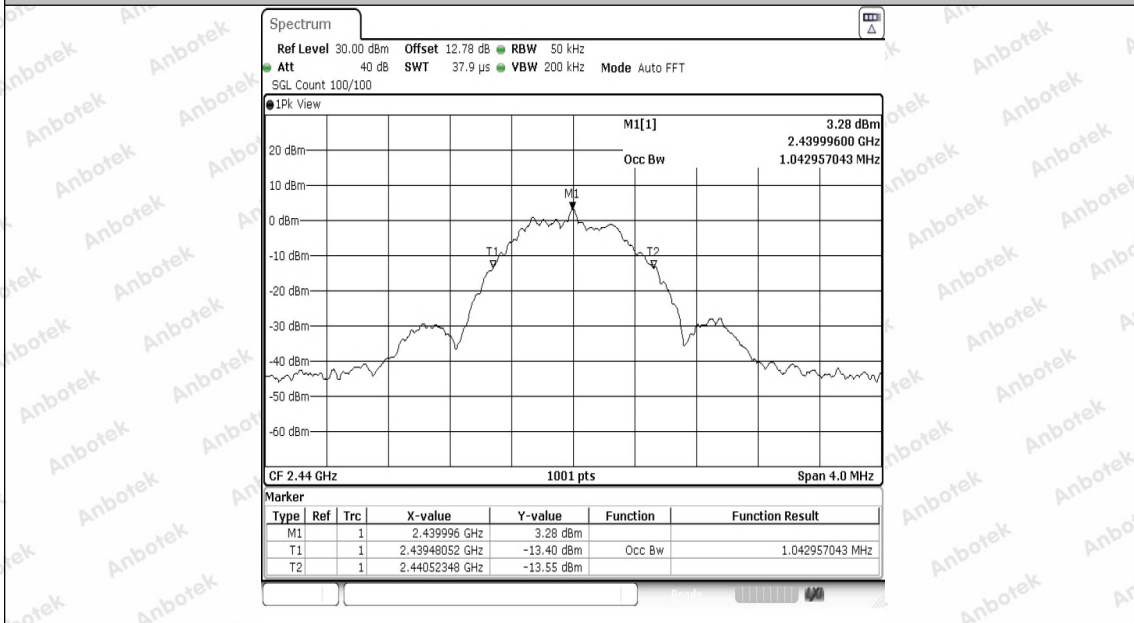
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Test Graphs

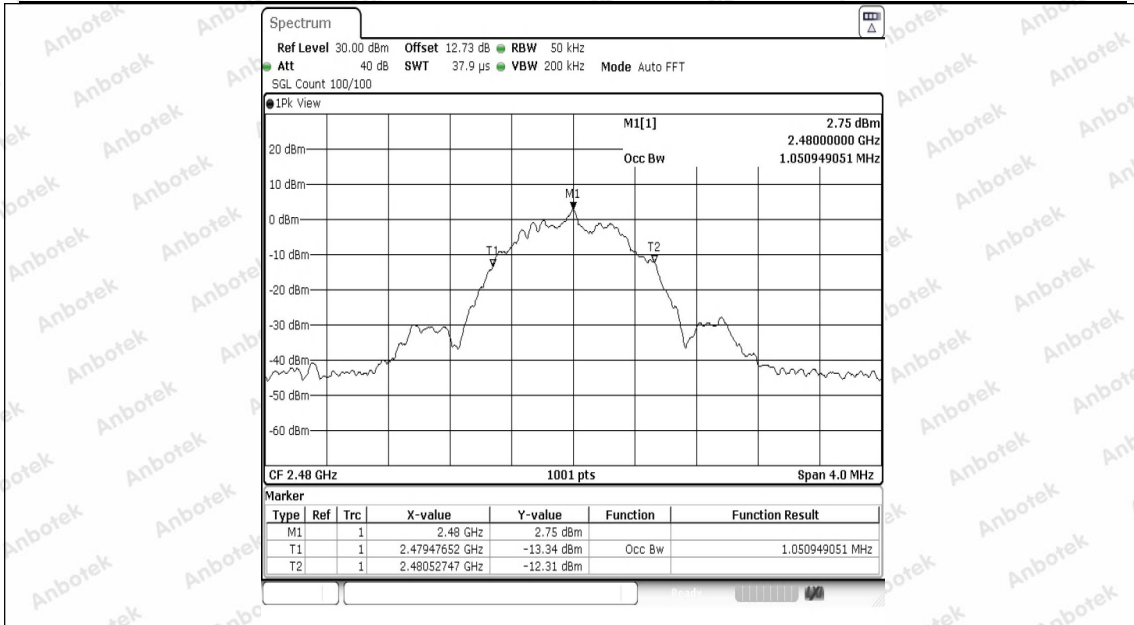


BLE_1M-Ant1-2402

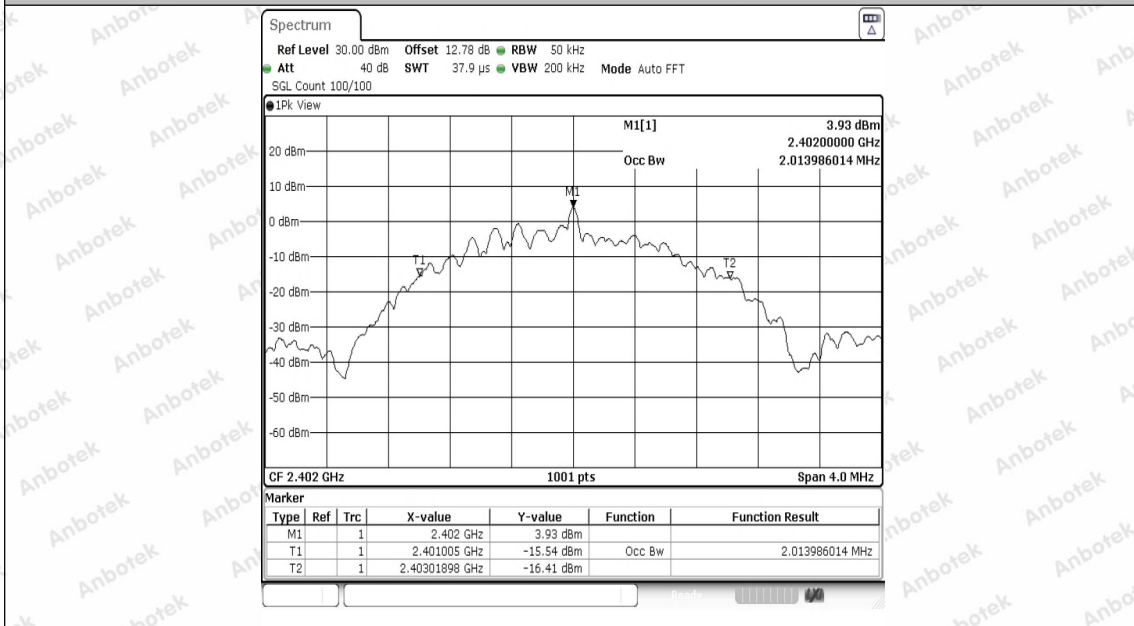


BLE_1M-Ant1-2440





BLE_1M-Ant1-2480



BLE_2M-Ant1-2402

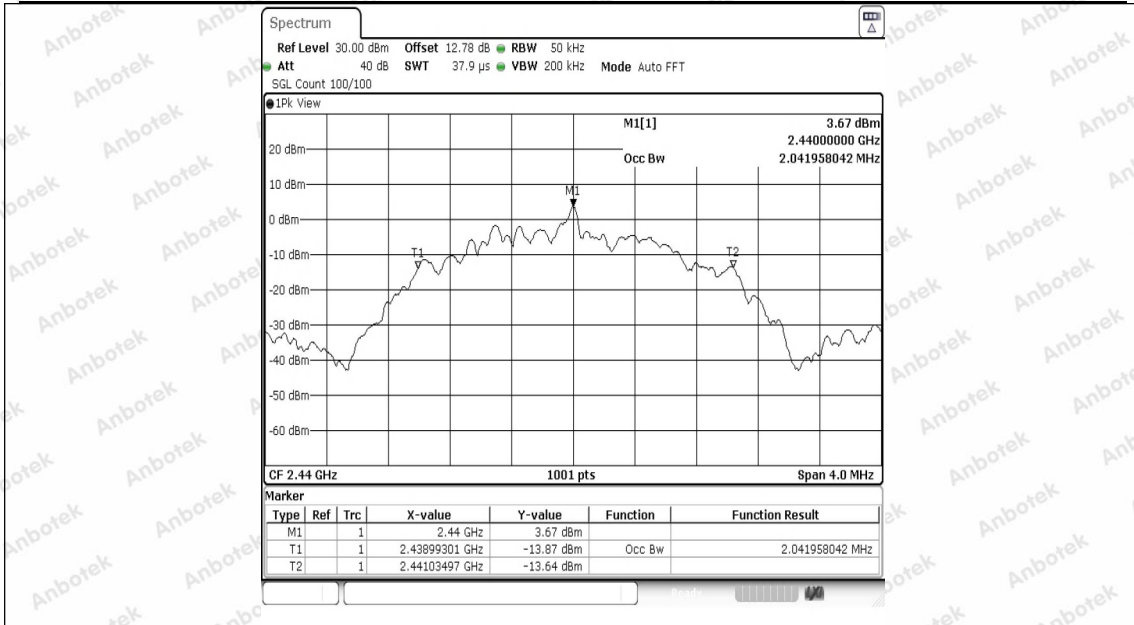
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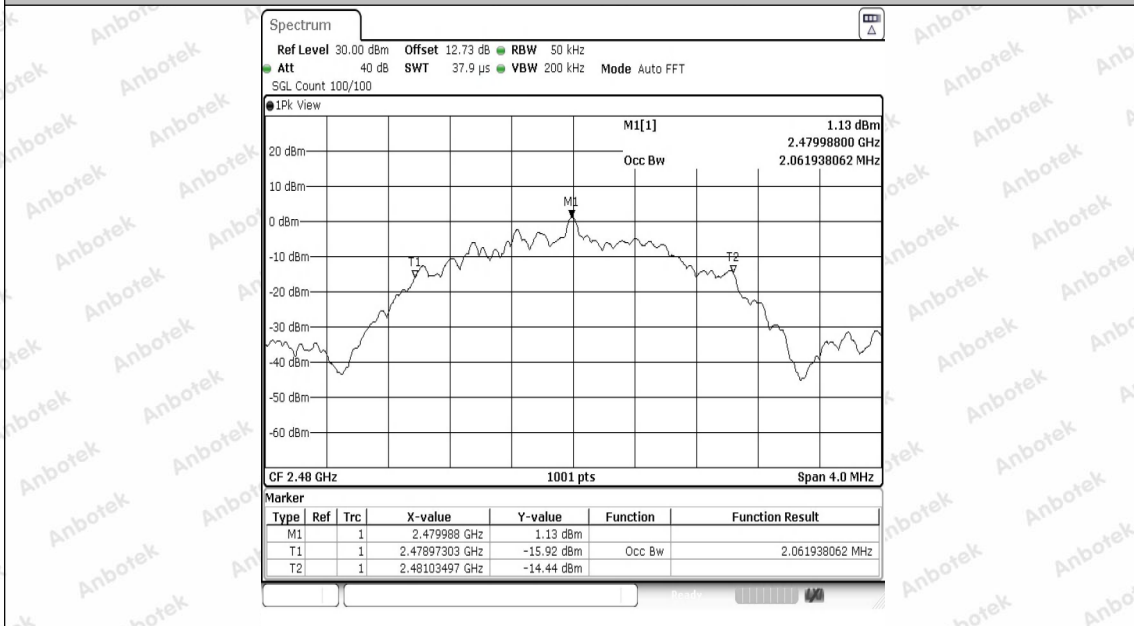


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BLE_2M-Ant1-2440



BLE_2M-Ant1-2480



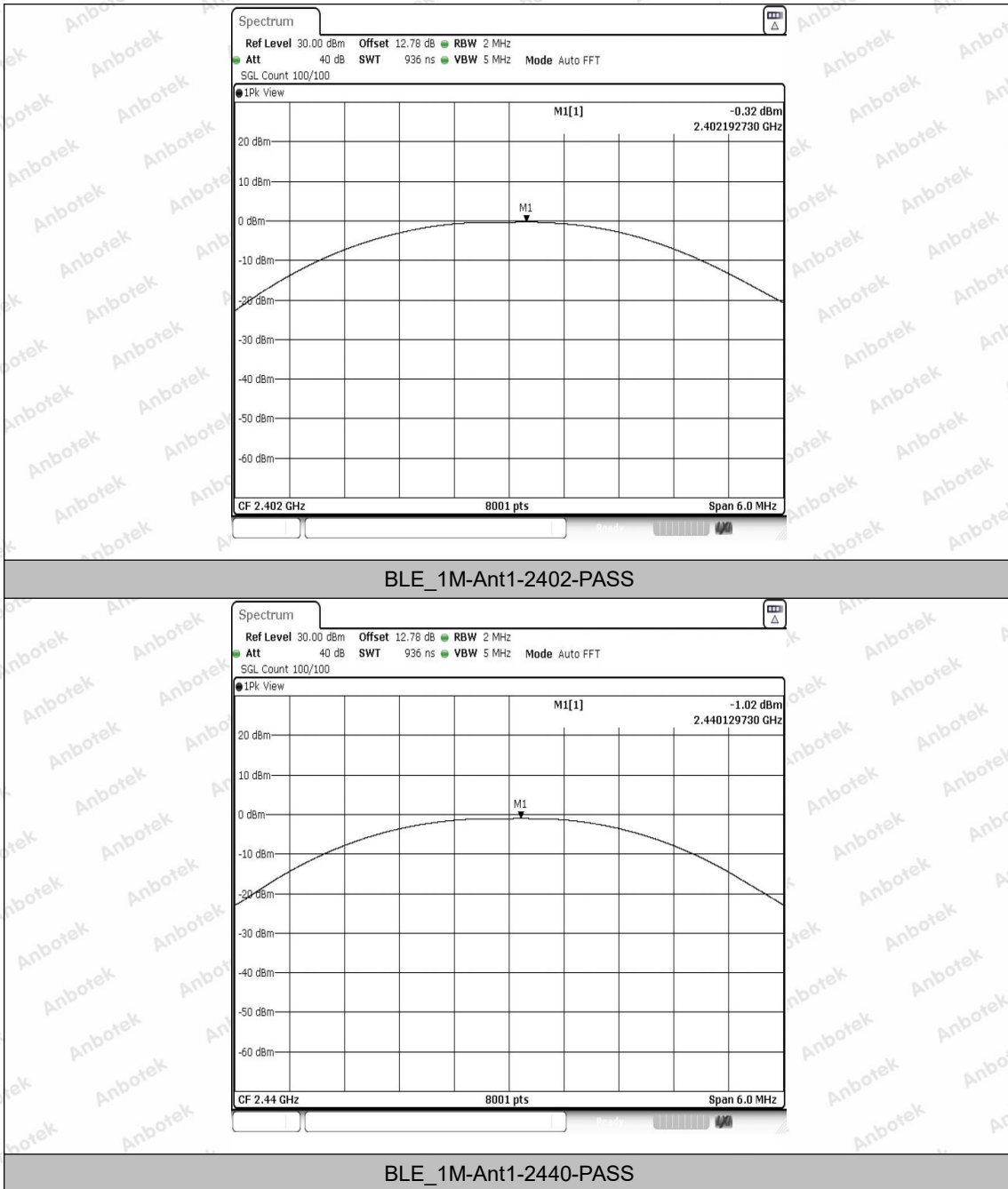
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.32	≤30	PASS
BLE_1M	Ant1	2440	-1.02	≤30	PASS
BLE_1M	Ant1	2480	-1.35	≤30	PASS
BLE_2M	Ant1	2402	-0.40	≤30	PASS
BLE_2M	Ant1	2440	-1.10	≤30	PASS
BLE_2M	Ant1	2480	-1.48	≤30	PASS



Test Graphs Peak



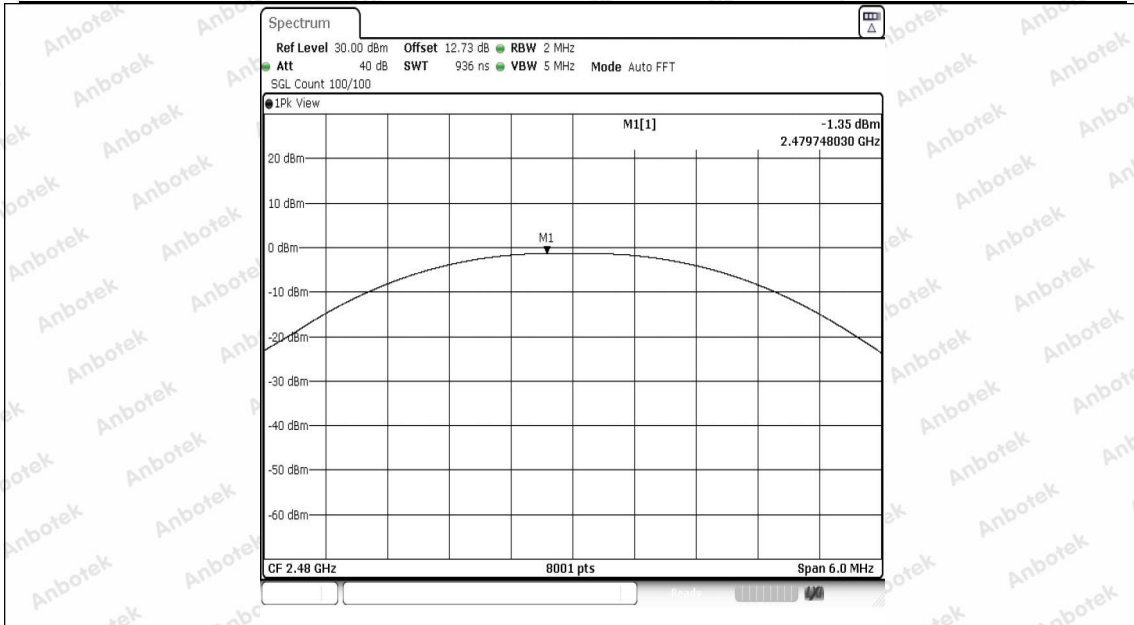
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

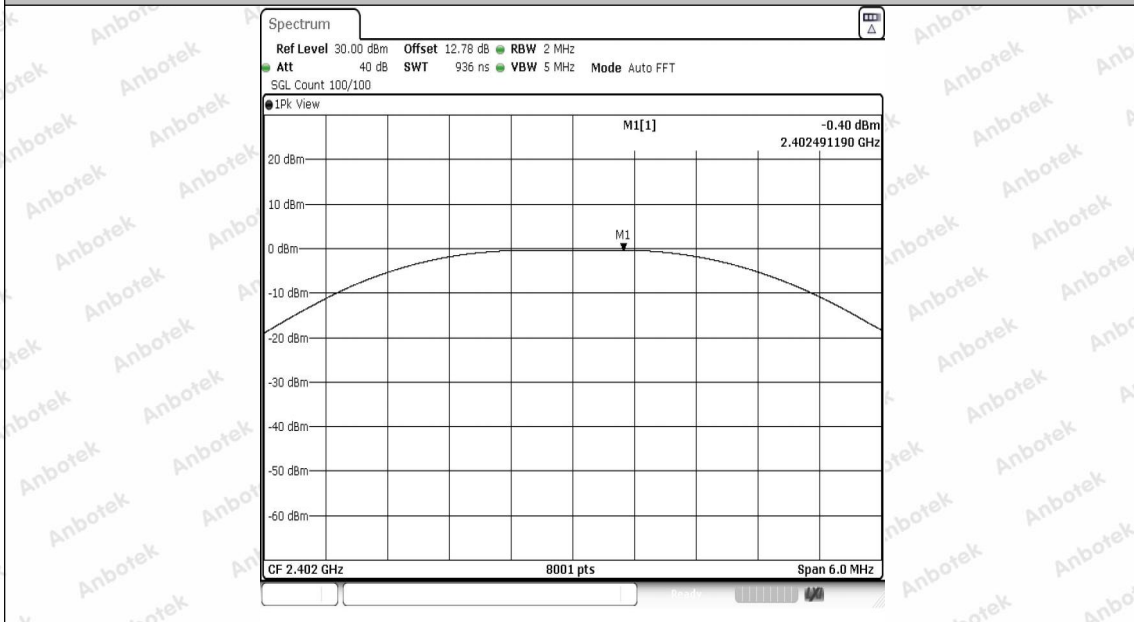


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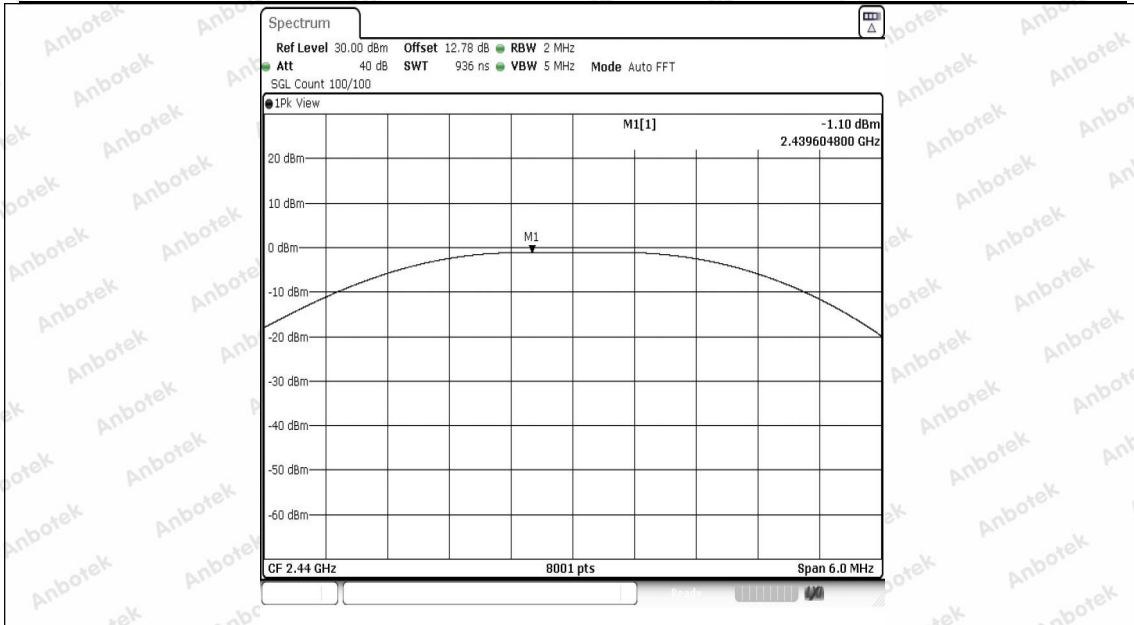


BLE_1M-Ant1-2480-PASS

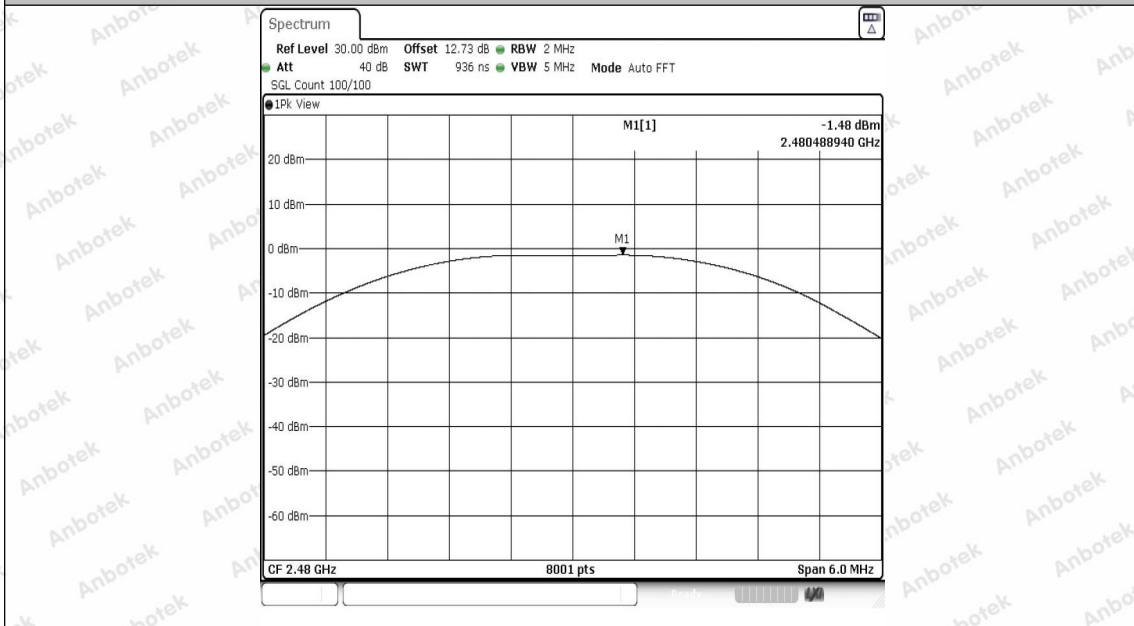


BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



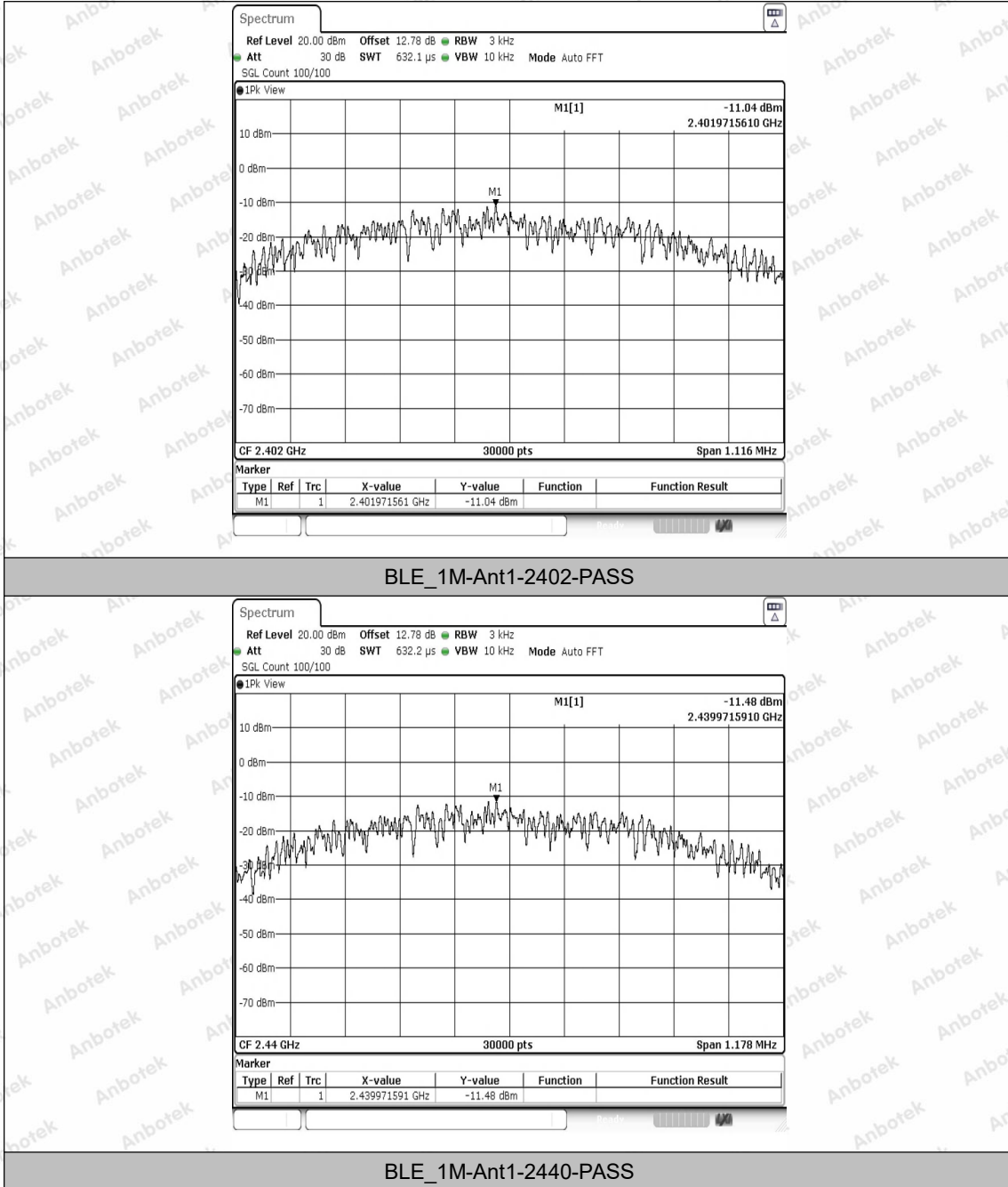
Appendix D: Maximum power spectral density

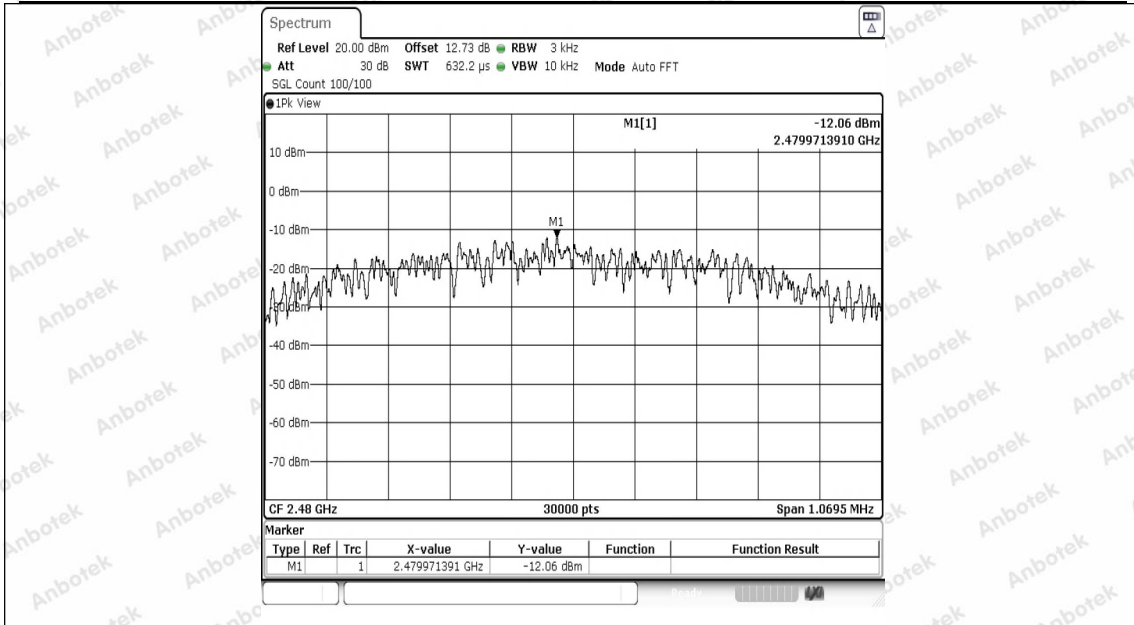
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.04	≤8.00	PASS
BLE_1M	Ant1	2440	-11.48	≤8.00	PASS
BLE_1M	Ant1	2480	-12.06	≤8.00	PASS
BLE_2M	Ant1	2402	-13.45	≤8.00	PASS
BLE_2M	Ant1	2440	-13.85	≤8.00	PASS
BLE_2M	Ant1	2480	-14.46	≤8.00	PASS

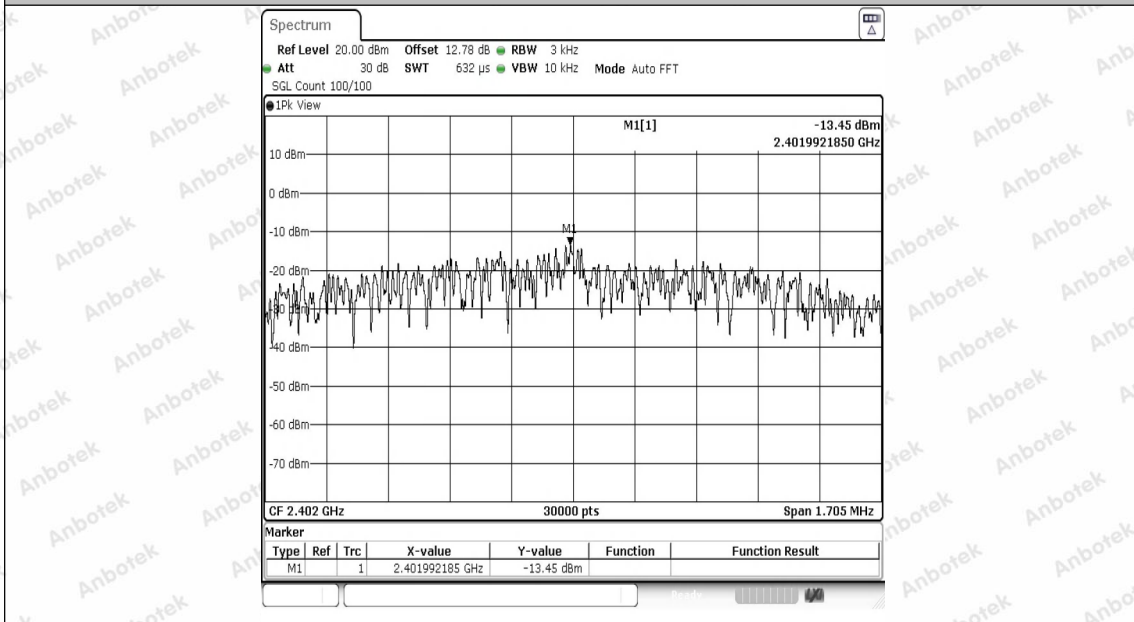


Test Graphs



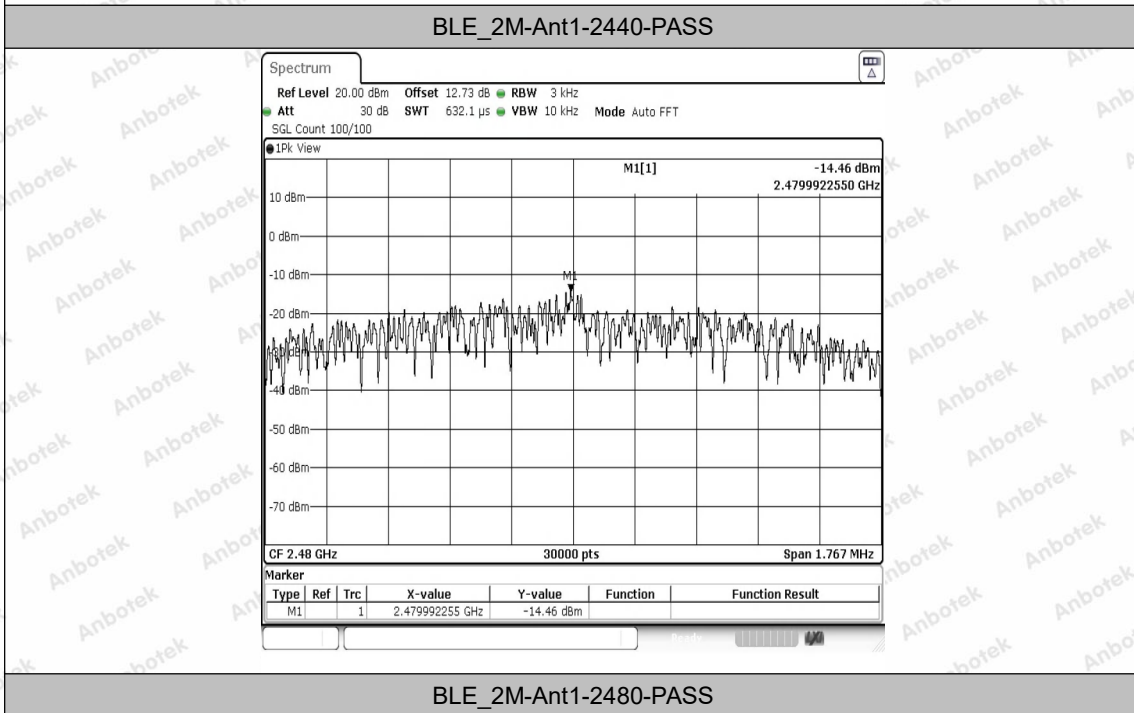
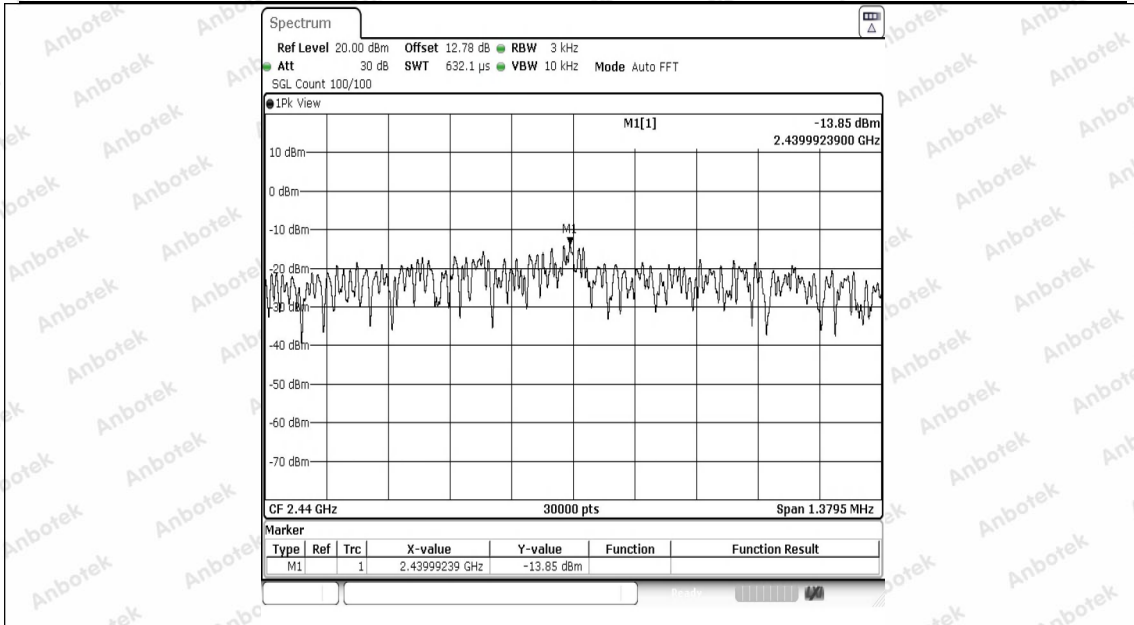


BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS





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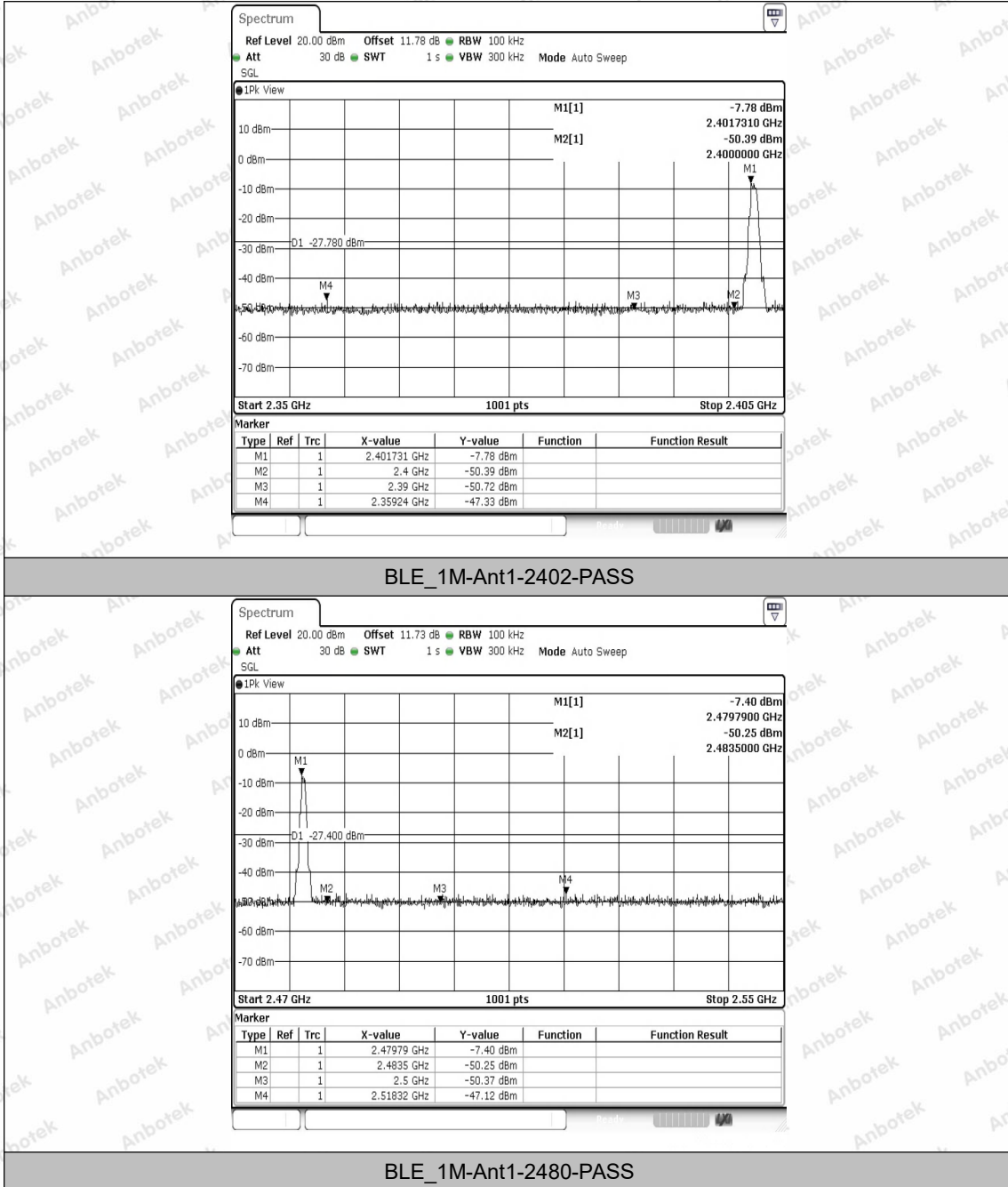
Appendix E: Band edge measurements

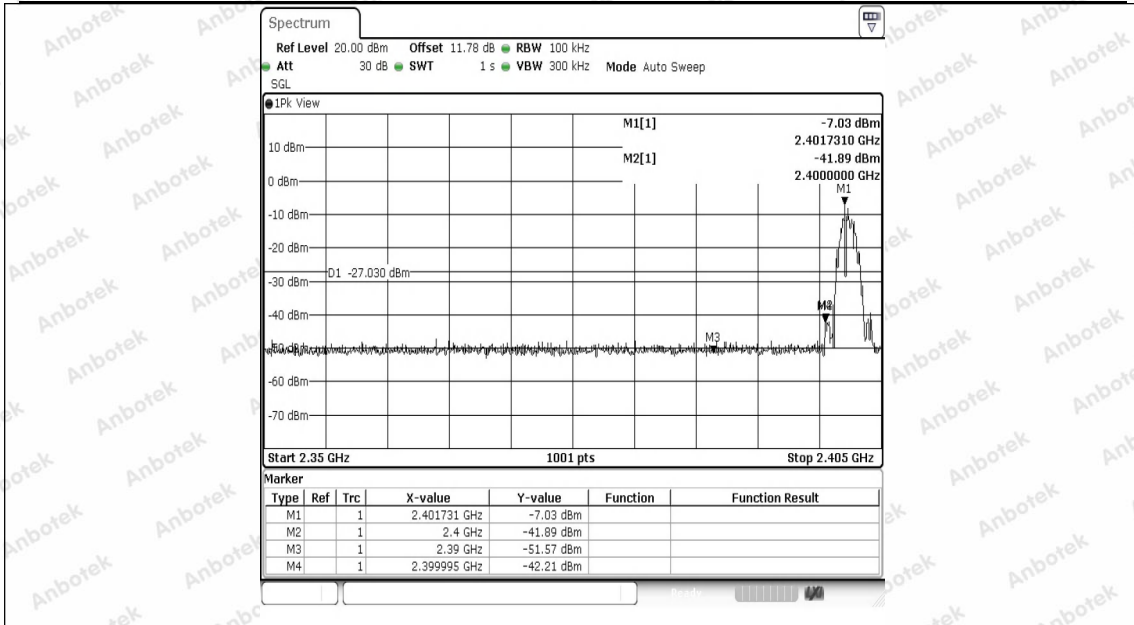
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-7.78	-47.33	≤-27.78	PASS
BLE_1M	Ant1	High	2480	-7.40	-47.12	≤-27.4	PASS
BLE_2M	Ant1	Low	2402	-7.03	-42.21	≤-27.03	PASS
BLE_2M	Ant1	High	2480	-8.15	-46.61	≤-28.15	PASS

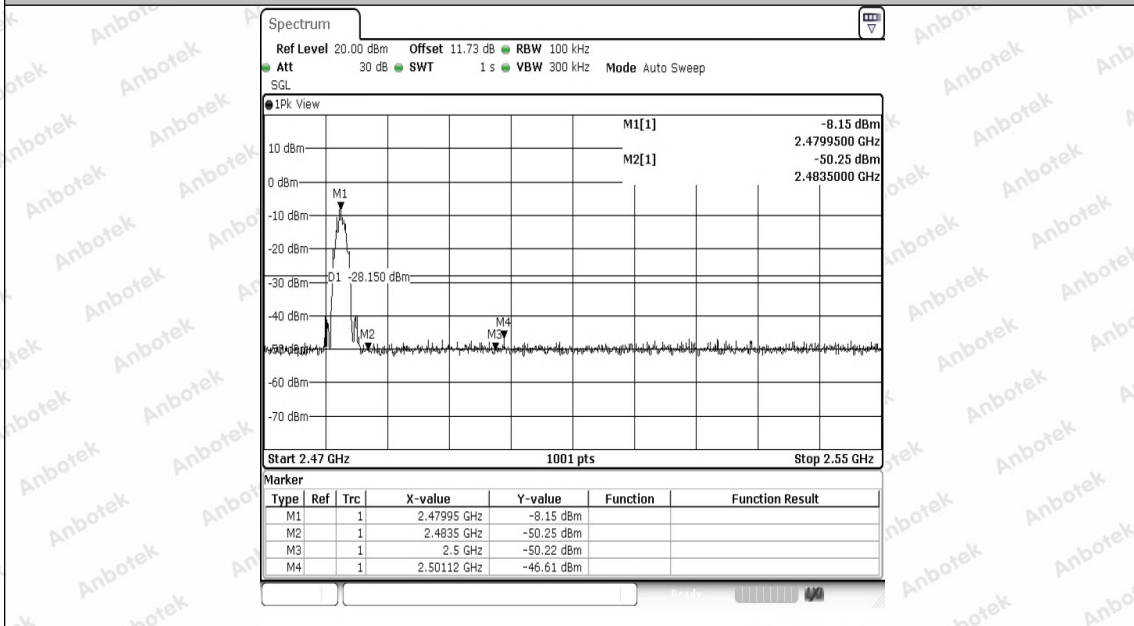


Test Graphs





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS

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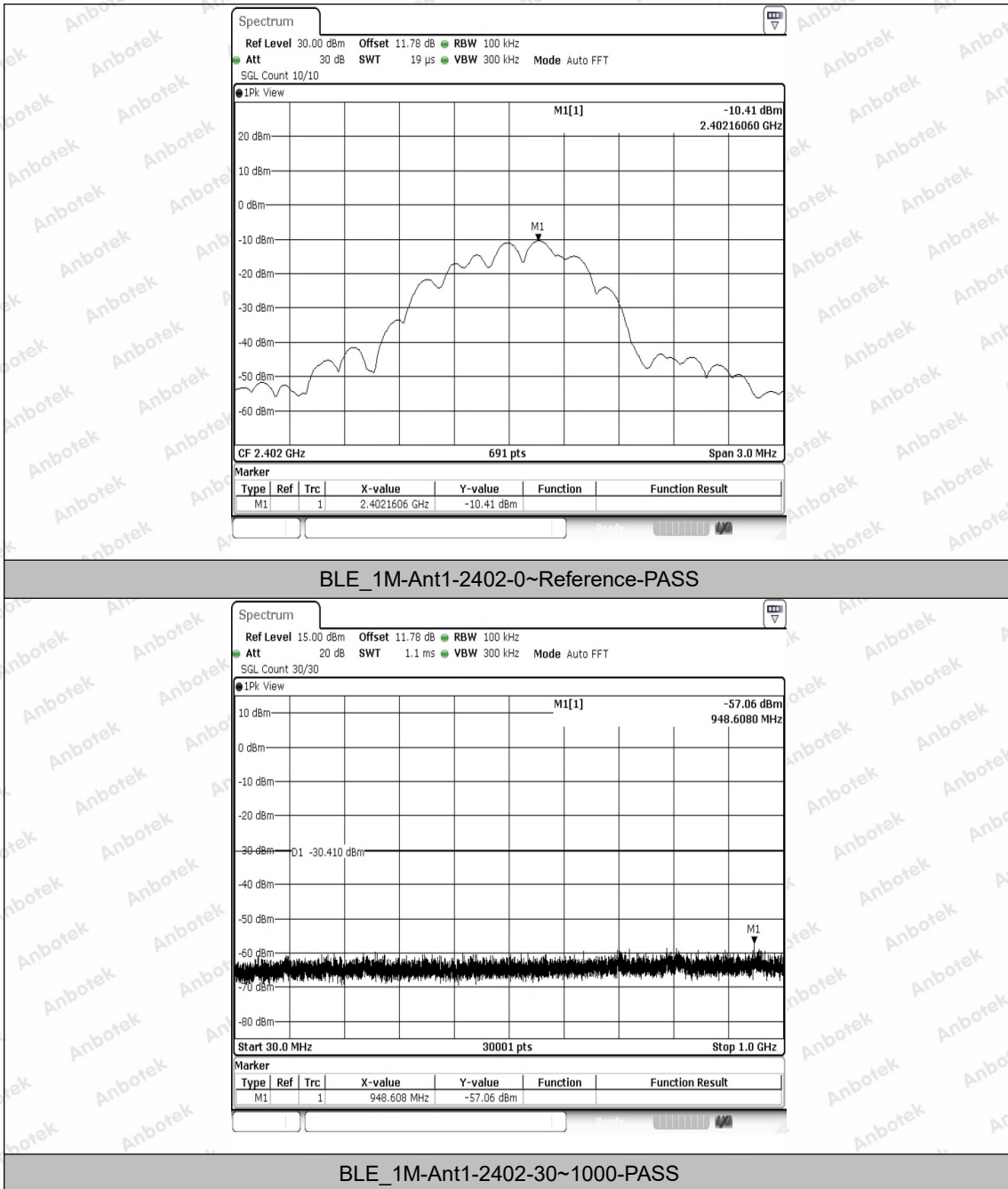
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-10.41	-10.41	---	PASS
BLE_1M	Ant1	2402	30~1000	-10.41	-57.06	≤-30.41	PASS
BLE_1M	Ant1	2402	1000~26500	-10.41	-50.38	≤-30.41	PASS
BLE_1M	Ant1	2440	0~Reference	-7.89	-7.89	---	PASS
BLE_1M	Ant1	2440	30~1000	-7.89	-58.38	≤-27.89	PASS
BLE_1M	Ant1	2440	1000~26500	-7.89	-50.71	≤-27.89	PASS
BLE_1M	Ant1	2480	0~Reference	-10.81	-10.81	---	PASS
BLE_1M	Ant1	2480	30~1000	-10.81	-57.42	≤-30.81	PASS
BLE_1M	Ant1	2480	1000~26500	-10.81	-50.73	≤-30.81	PASS
BLE_2M	Ant1	2402	0~Reference	-6.94	-6.94	---	PASS
BLE_2M	Ant1	2402	30~1000	-6.94	-57.8	≤-26.94	PASS
BLE_2M	Ant1	2402	1000~26500	-6.94	-50.21	≤-26.94	PASS
BLE_2M	Ant1	2440	0~Reference	-12.27	-12.27	---	PASS
BLE_2M	Ant1	2440	30~1000	-12.27	-58.88	≤-32.27	PASS
BLE_2M	Ant1	2440	1000~26500	-12.27	-50.57	≤-32.27	PASS
BLE_2M	Ant1	2480	0~Reference	-11.12	-11.12	---	PASS
BLE_2M	Ant1	2480	30~1000	-11.12	-57.48	≤-31.12	PASS
BLE_2M	Ant1	2480	1000~26500	-11.12	-50.09	≤-31.12	PASS



Test Graphs

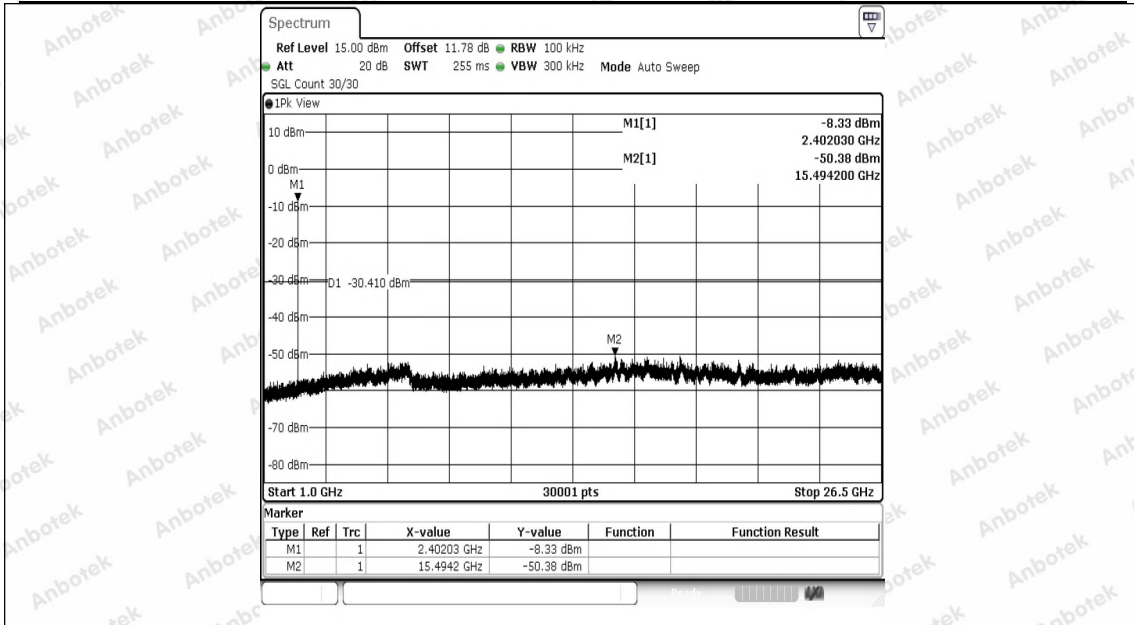


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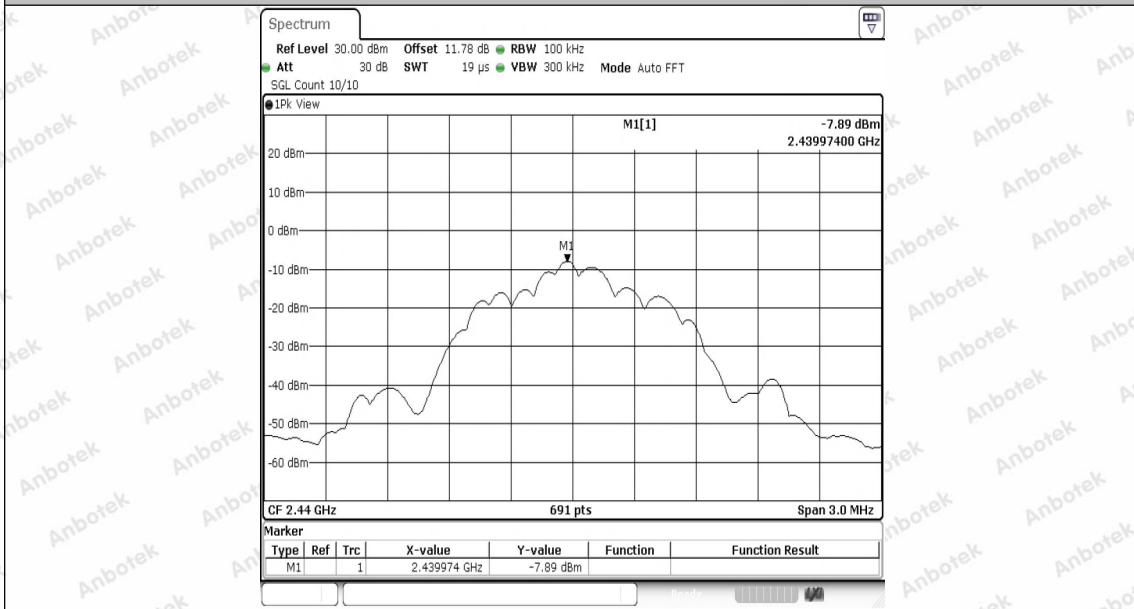
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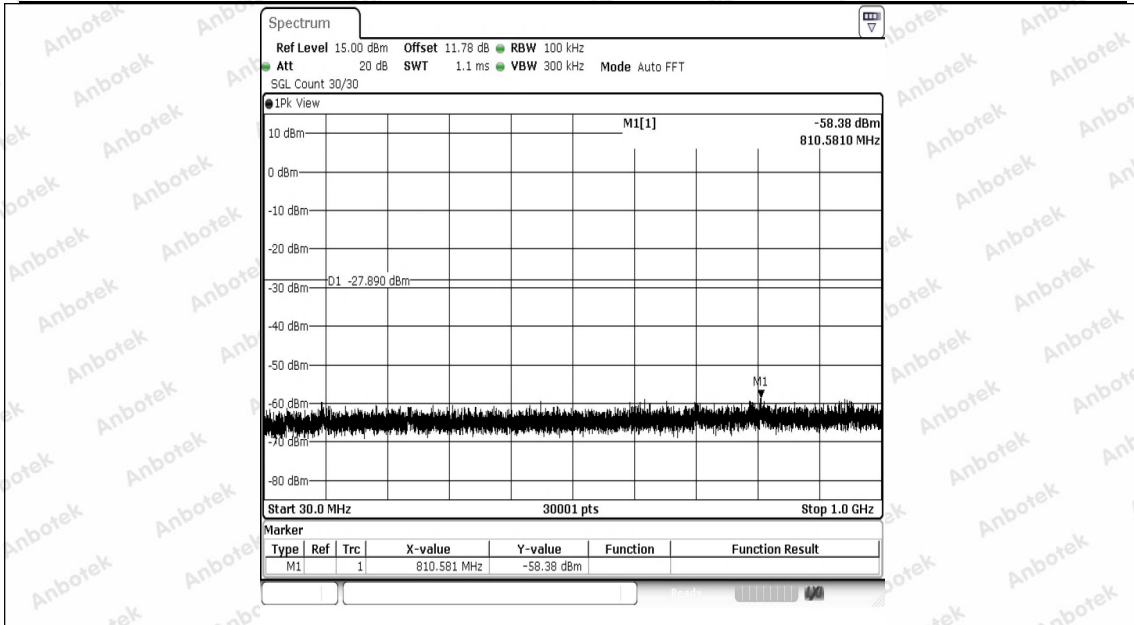


BLE_1M-Ant1-2402-1000~26500-PASS

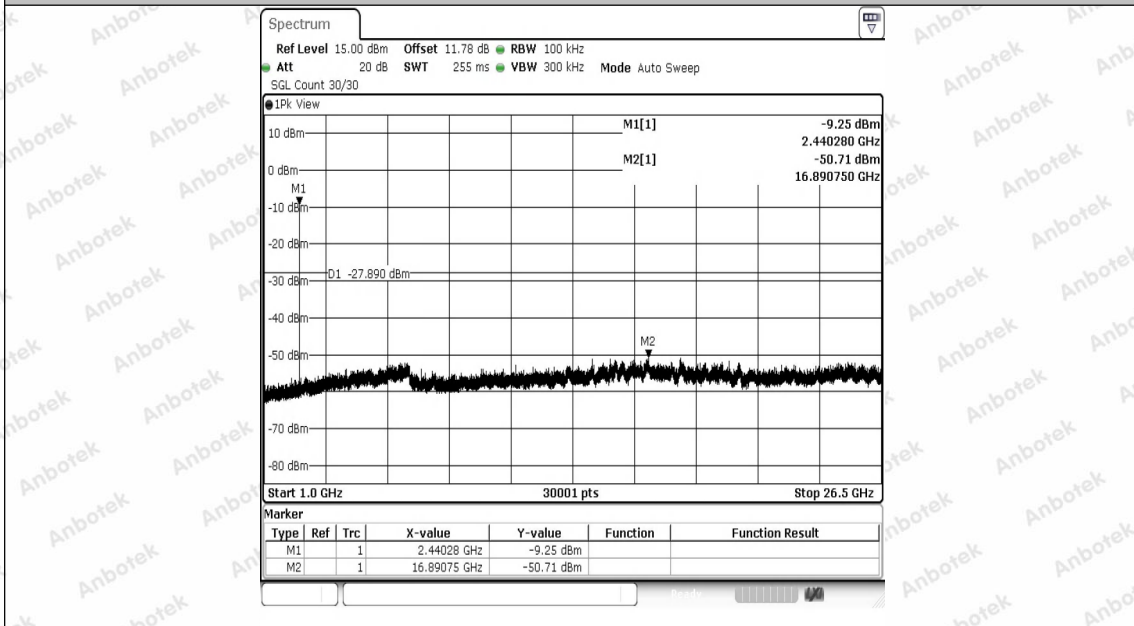


BLE_1M-Ant1-2440-0~Reference-PASS





BLE_1M-Ant1-2440-30~1000-PASS



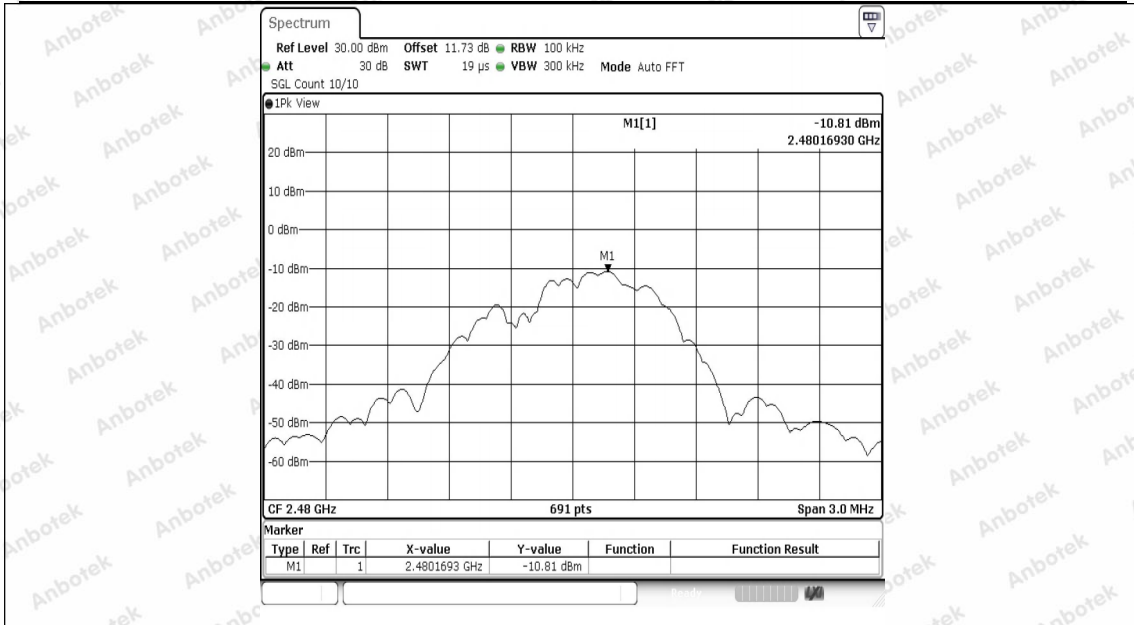
BLE_1M-Ant1-2440-1000~26500-PASS

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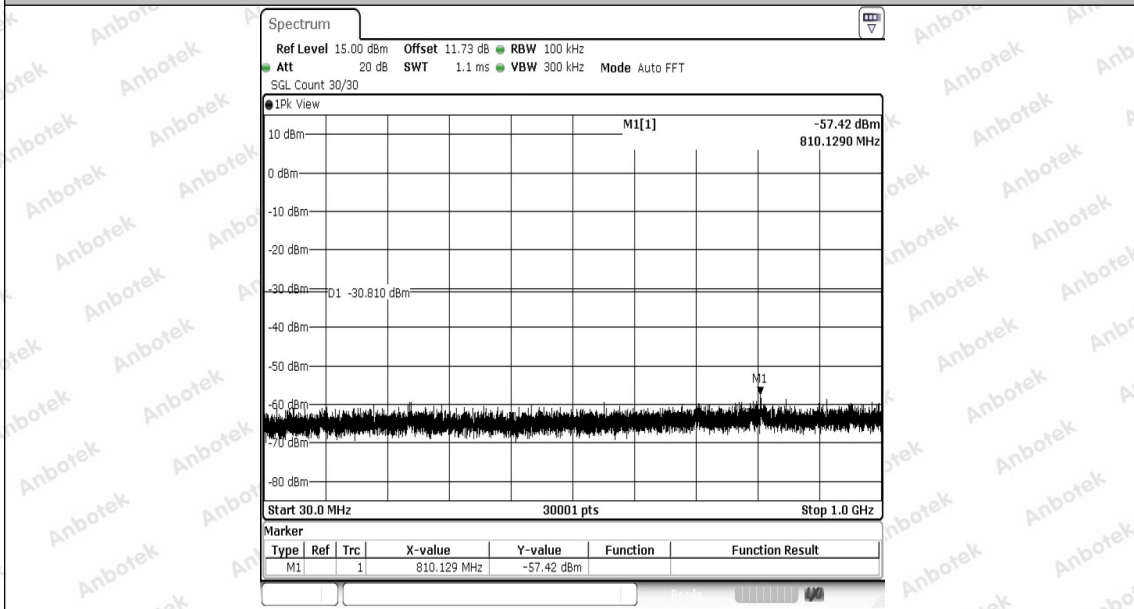
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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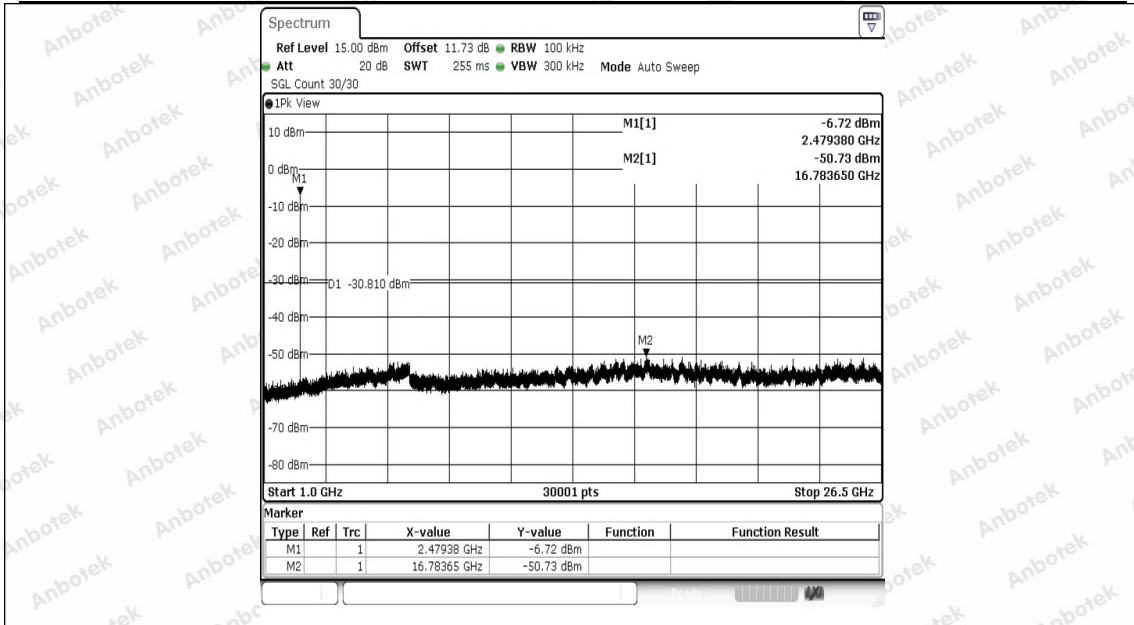


BLE_1M-Ant1-2480-0~Reference-PASS

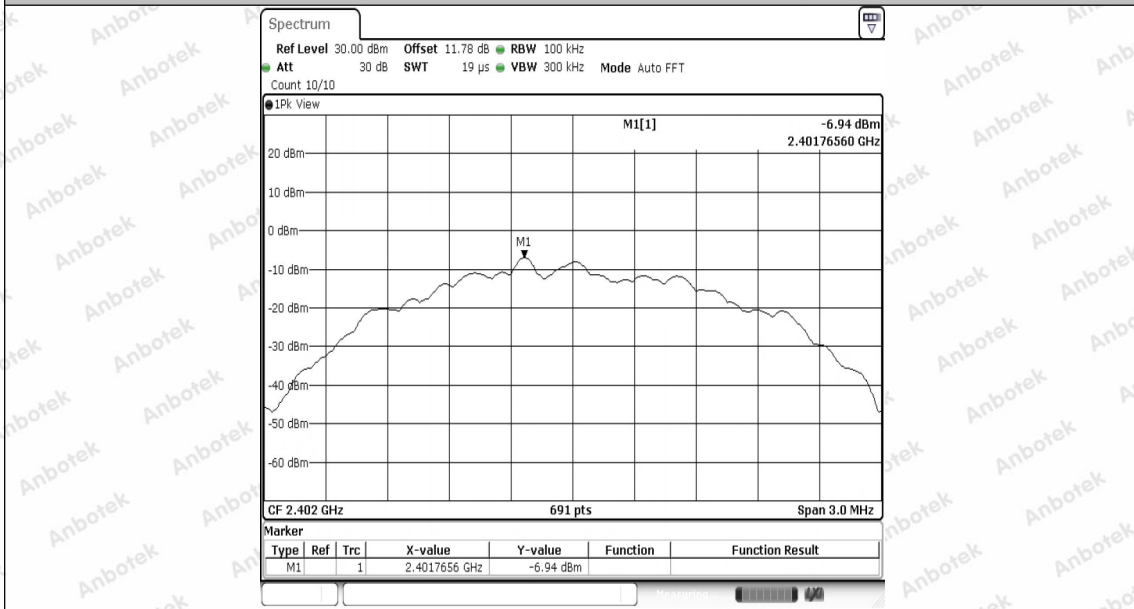


BLE_1M-Ant1-2480-30~1000-PASS



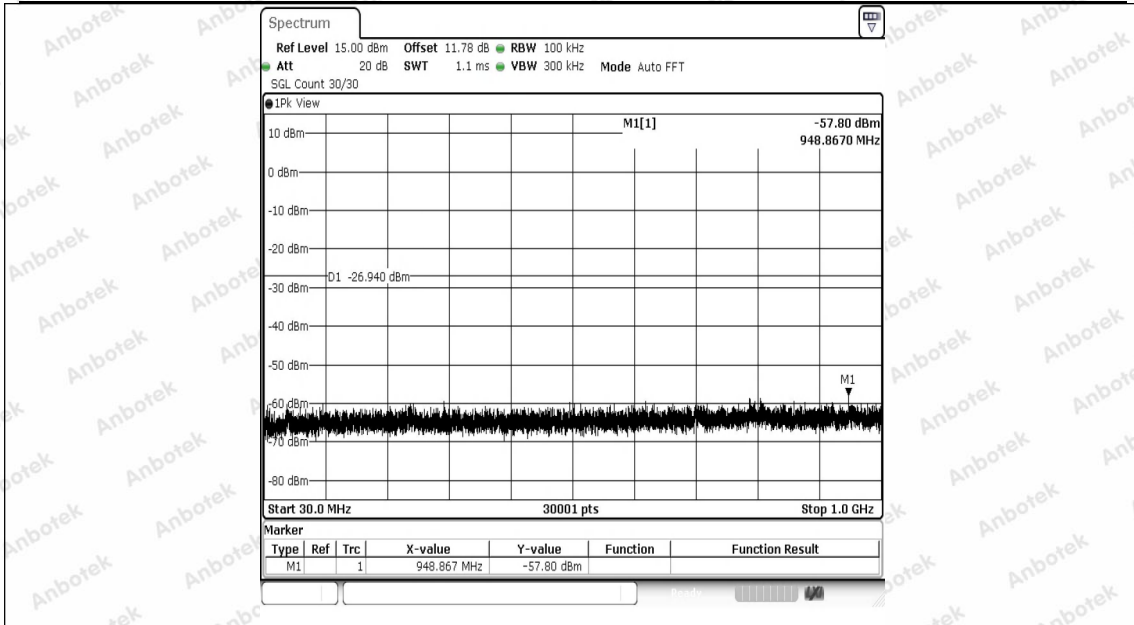


BLE_1M-Ant1-2480-1000~26500-PASS

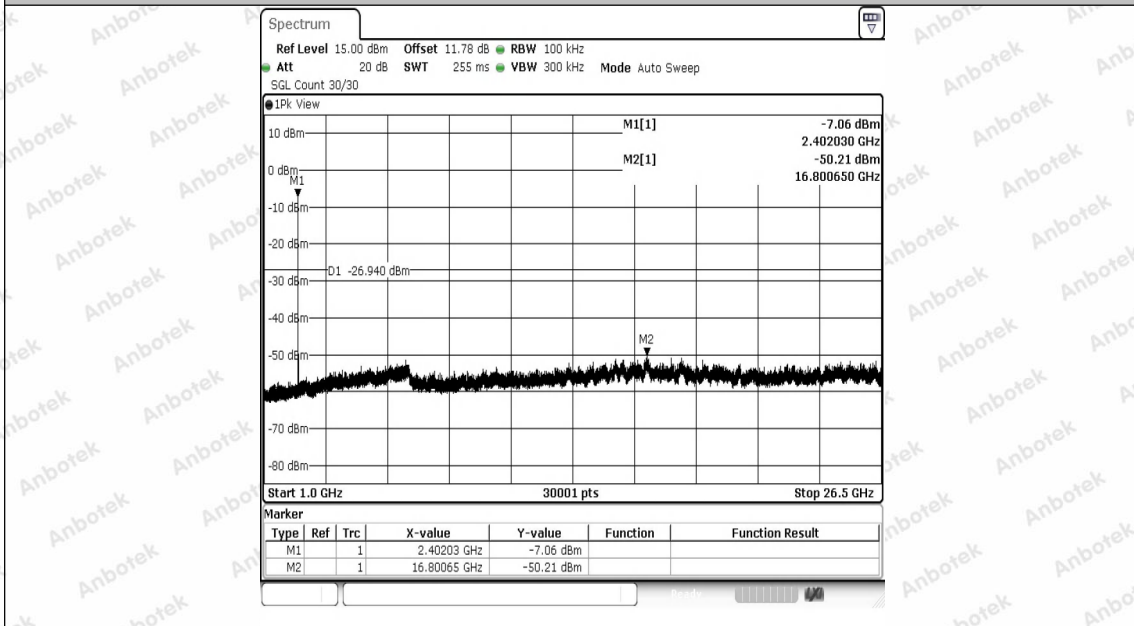


BLE_2M-Ant1-2402-0~Reference-PASS





BLE_2M-Ant1-2402-30~1000-PASS



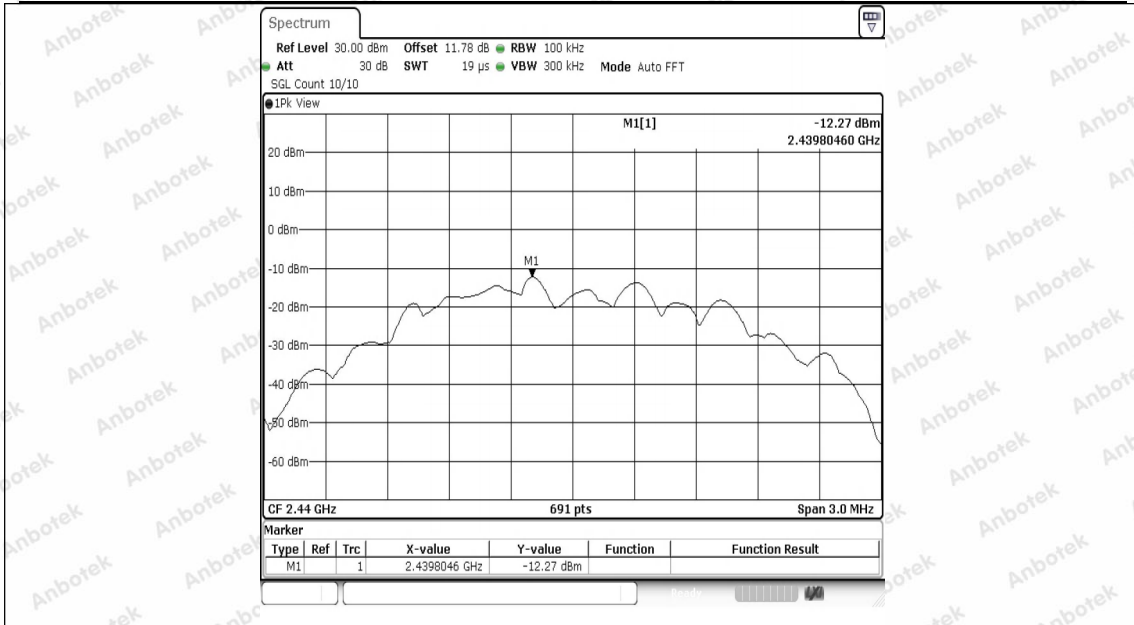
BLE_2M-Ant1-2402-1000~26500-PASS

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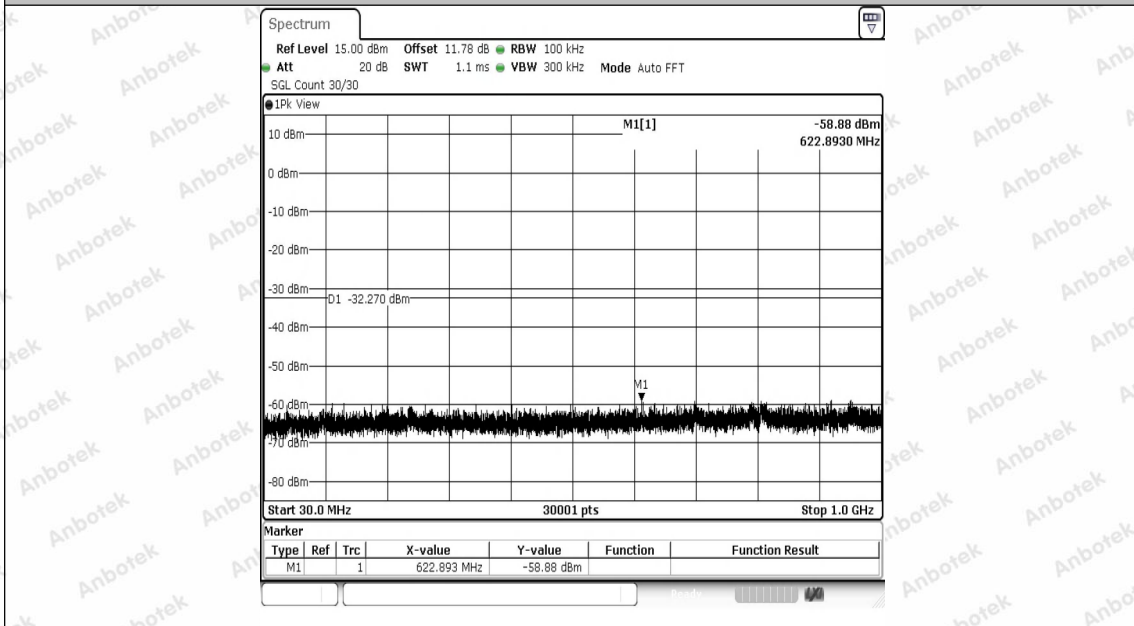
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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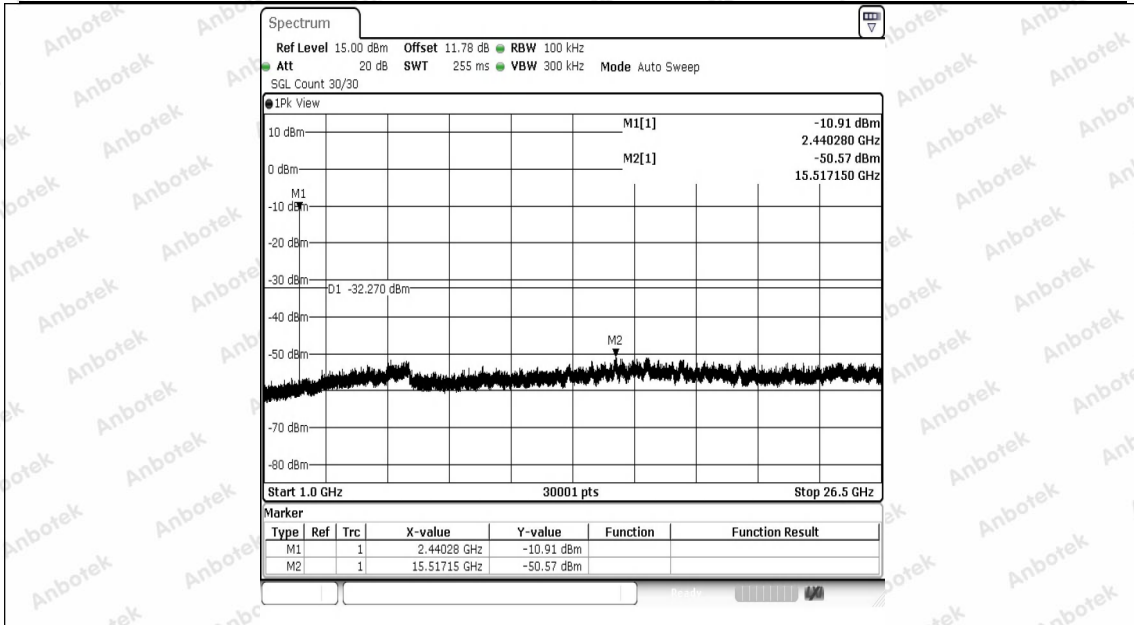


BLE_2M-Ant1-2440-0~Reference-PASS

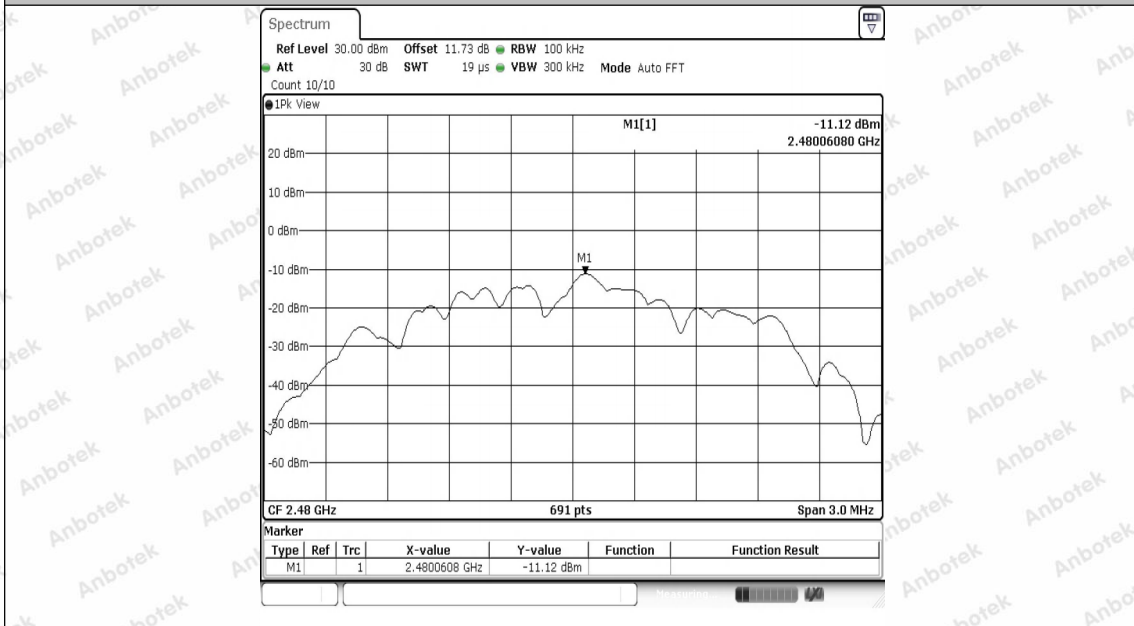


BLE_2M-Ant1-2440-30~1000-PASS



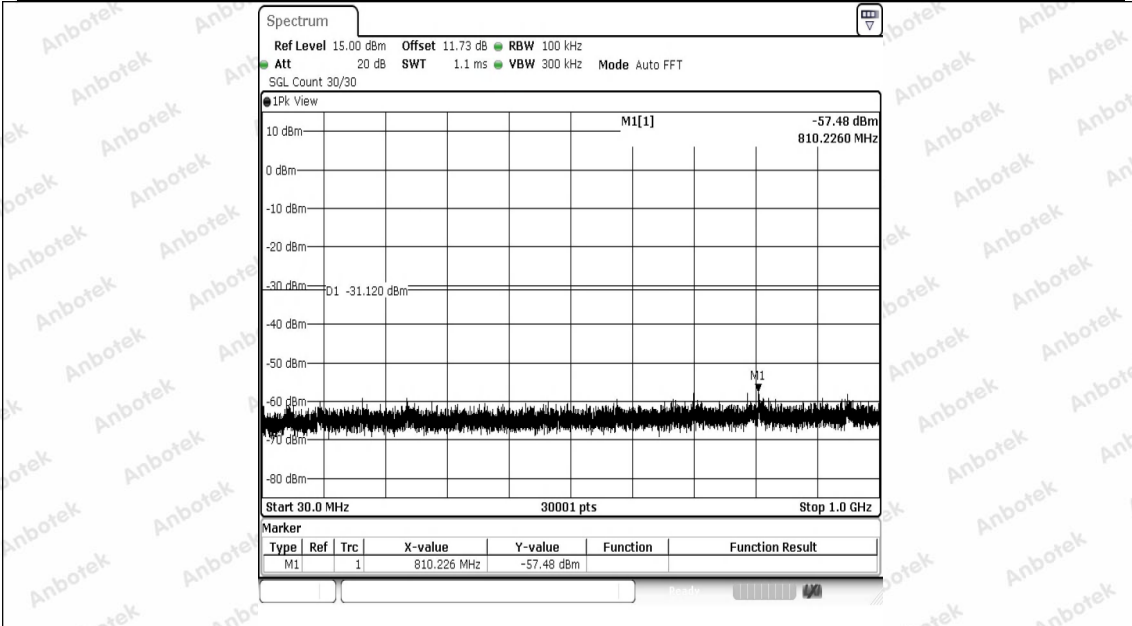


BLE_2M-Ant1-2440-1000~26500-PASS

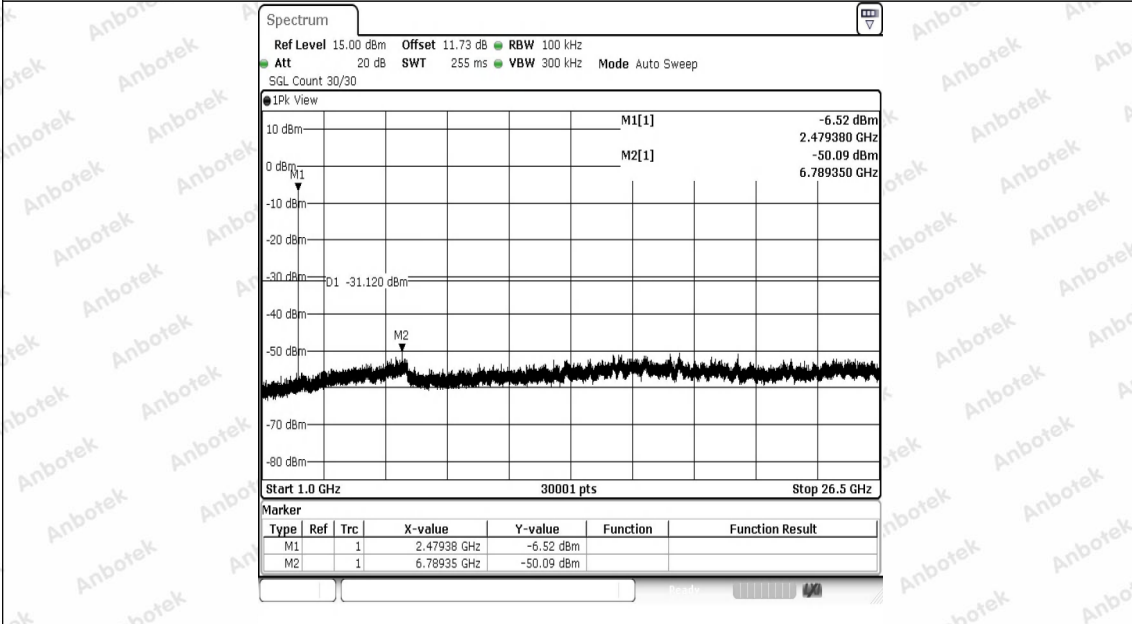


BLE_2M-Ant1-2480-0~Reference-PASS





BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77

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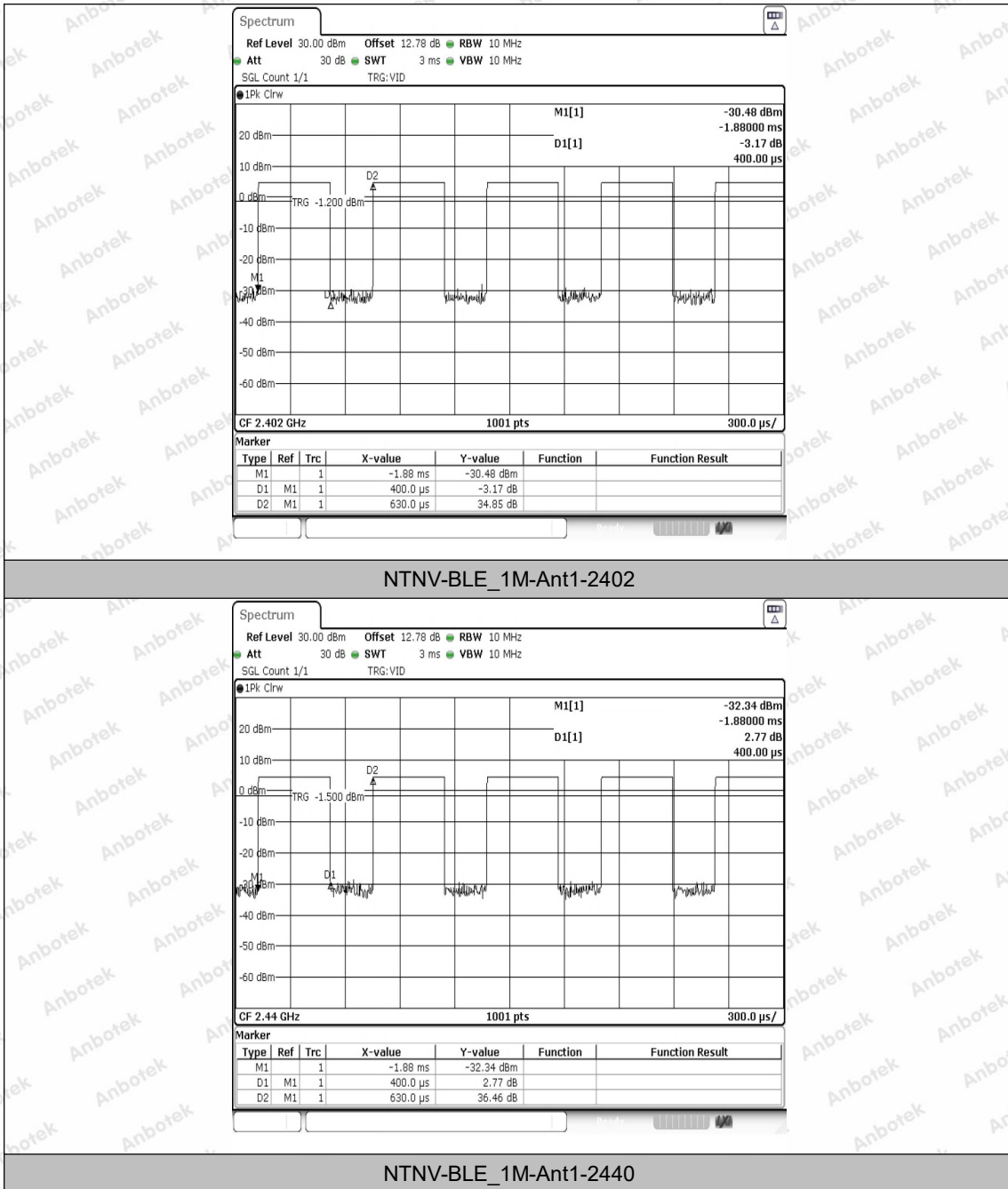
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

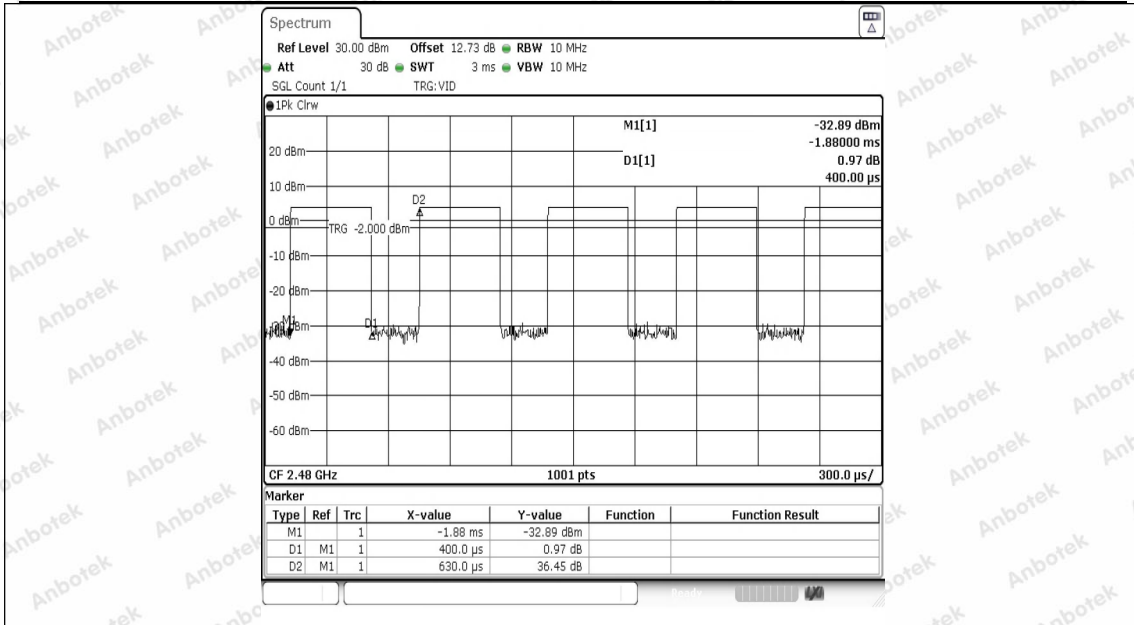


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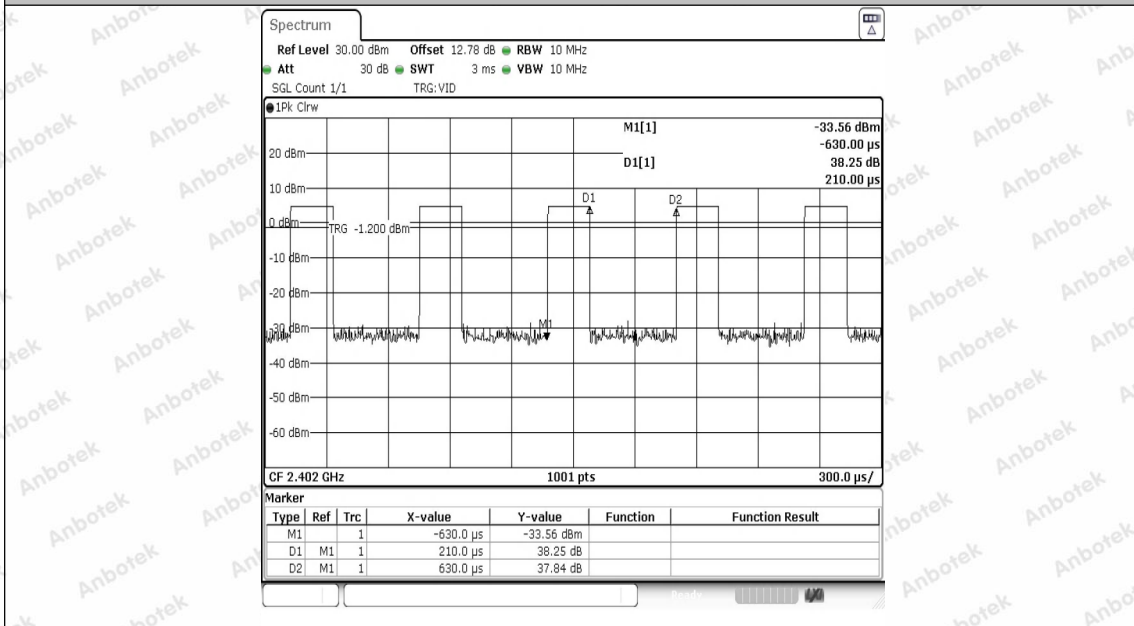


Test Graphs



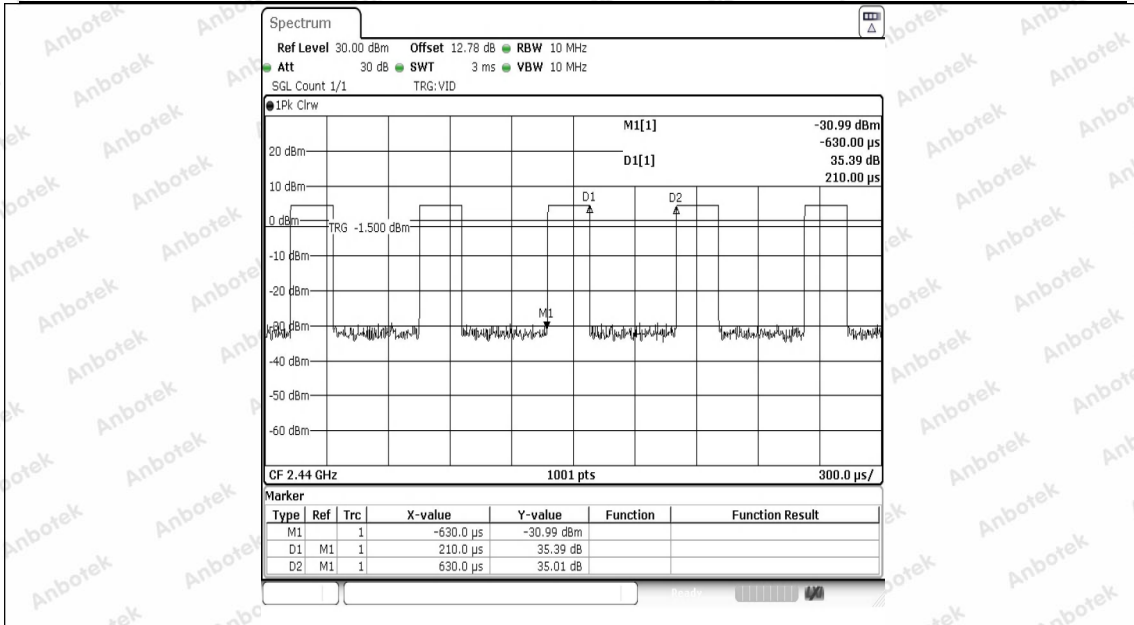


NTNV-BLE_1M-Ant1-2480

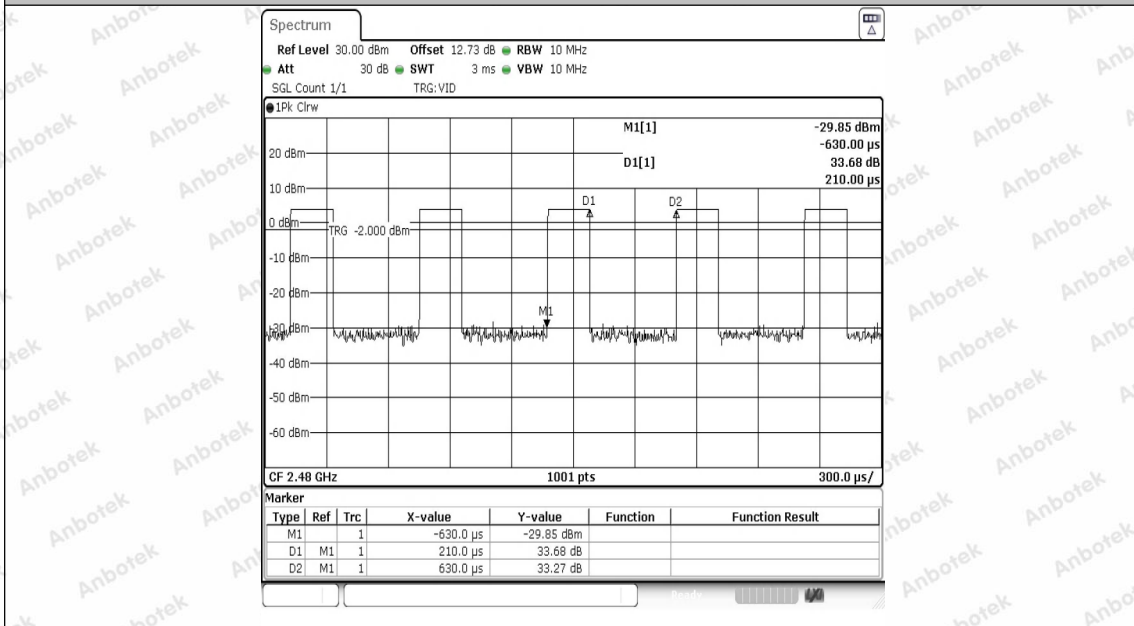


NTNV-BLE_2M-Ant1-2402





NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---END---

