

Appendix Test Data

Report No.:	18360WC30015401	Test Sample No.:	1-2-2
Start Test Date:	2023.11.13	Finish Test Date:	2023.11.15
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	24.5°C	Relative Humidity:	41%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.52	2401.69	2402.21	0.5	PASS
		2440	0.52	2439.69	2440.21	0.5	PASS
		2480	0.53	2479.69	2480.22	0.5	PASS
BLE_2M	Ant1	2402	0.86	2401.44	2402.30	0.5	PASS
		2440	0.85	2439.44	2440.29	0.5	PASS
		2480	0.84	2479.43	2480.27	0.5	PASS

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Test Graphs

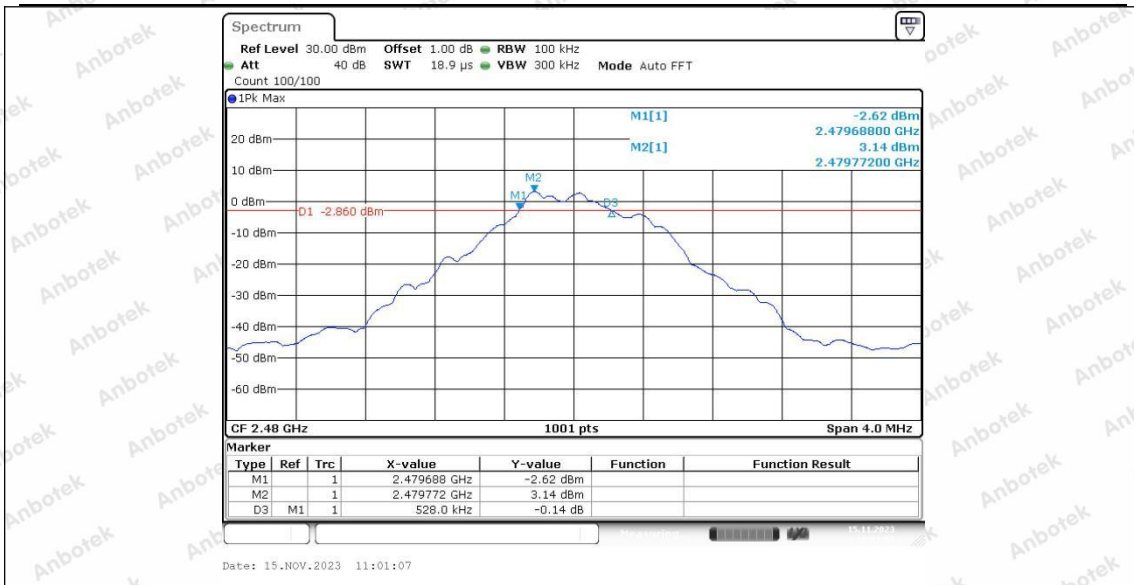


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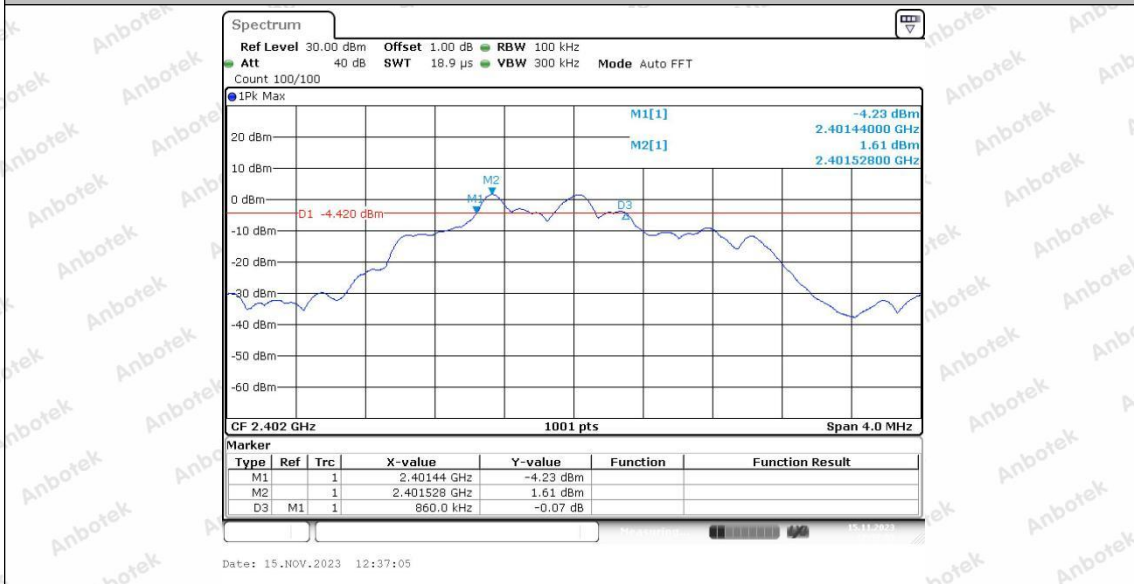
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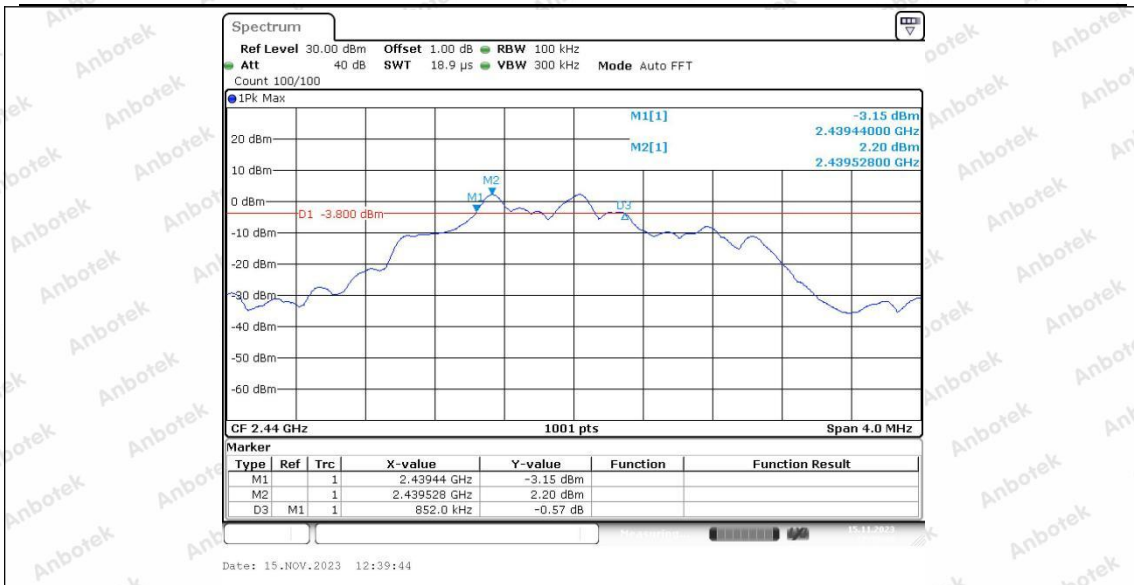


BLE_2M_Ant1_2402

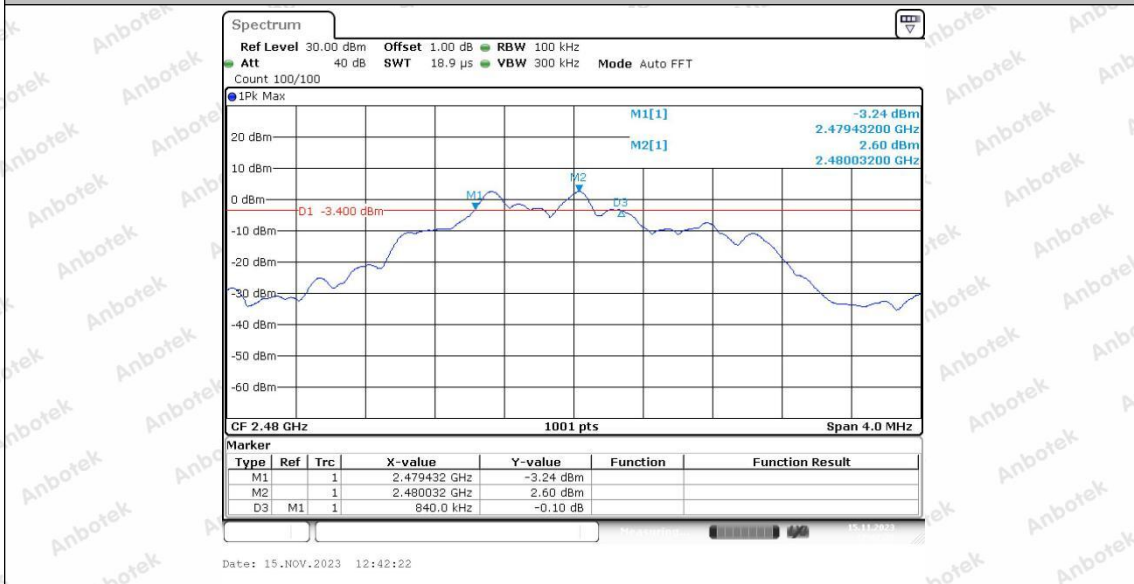


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.059	2401.4965	2402.5554
		2440	1.083	2439.4725	2440.5554
		2480	1.135	2479.4286	2480.5634
BLE_2M	Ant1	2402	2.054	2401.0130	2403.0669
		2440	2.062	2439.0090	2441.0709
		2480	2.078	2479.0010	2481.0789

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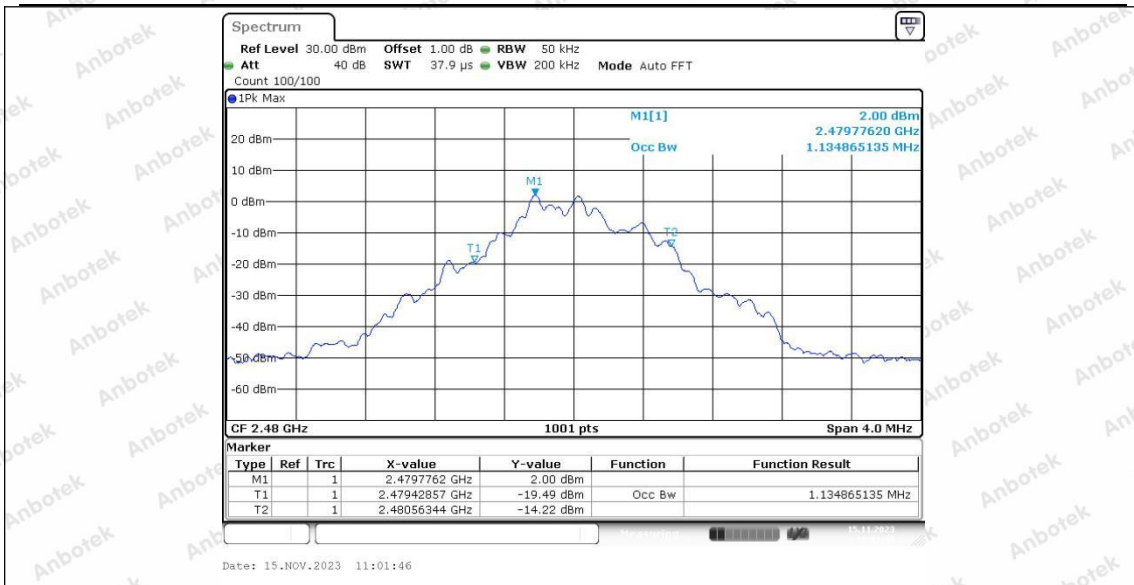


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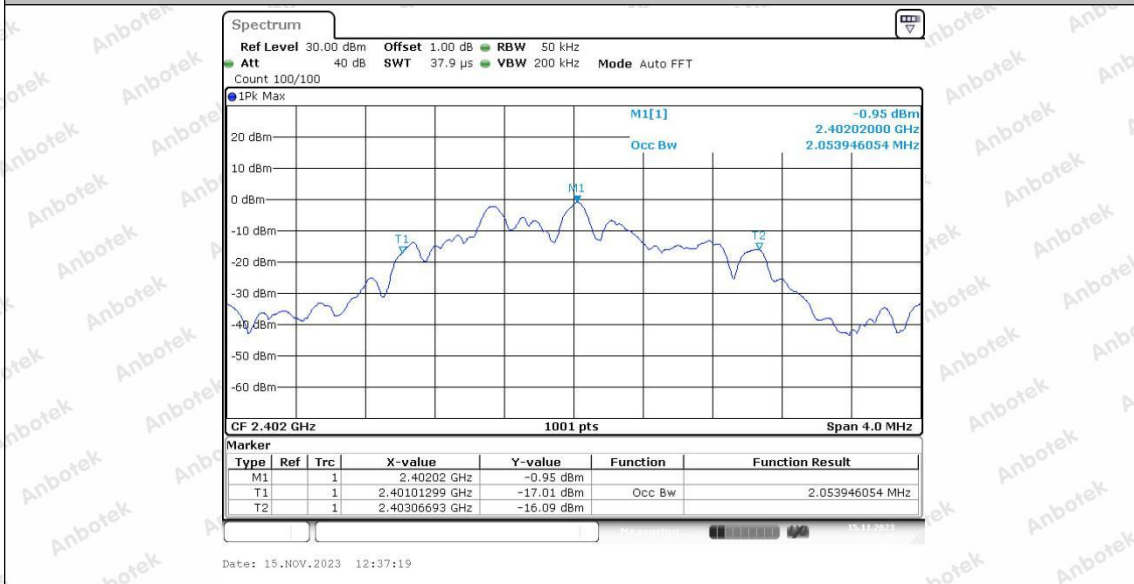


Test Graphs



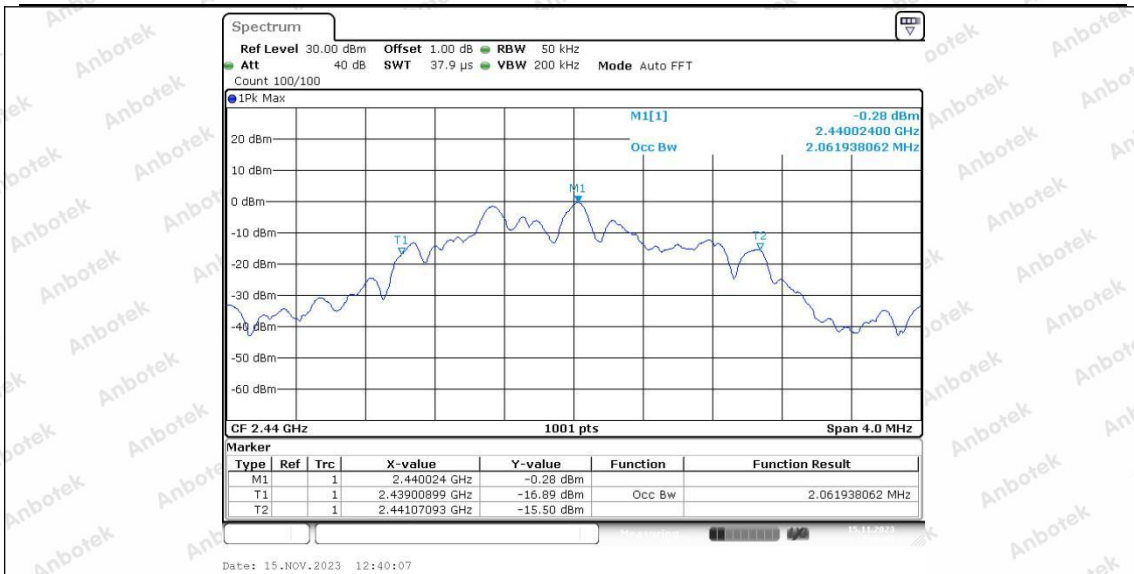


BLE_2M_Ant1_2402

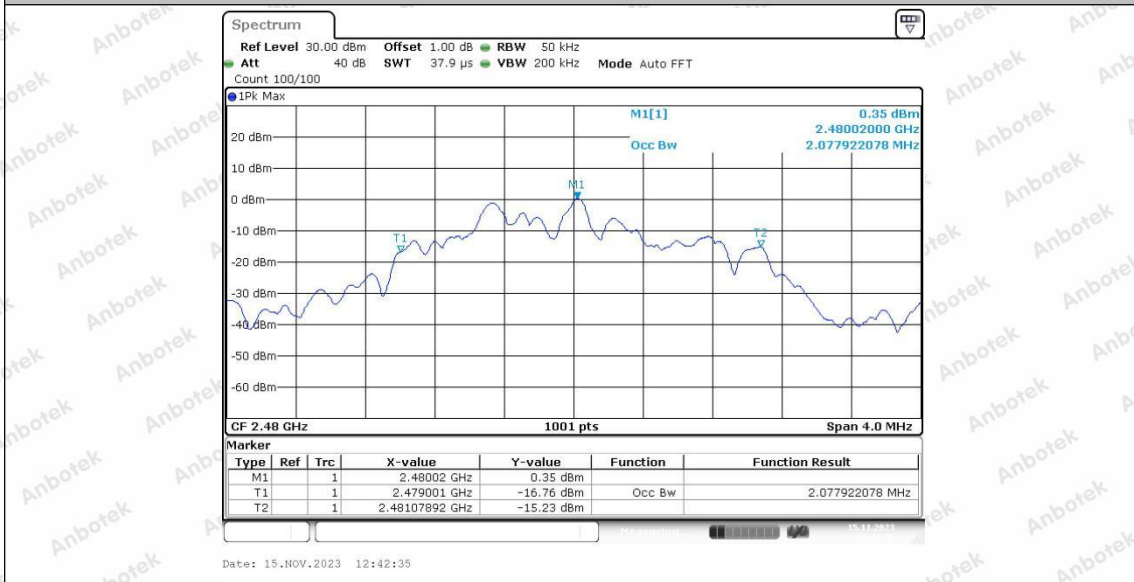


BLE_2M_Ant1_2440





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	2.41	≤30	PASS
		2440	2.99	≤30	PASS
		2480	3.36	≤30	PASS
BLE_2M	Ant1	2402	2.41	≤30	PASS
		2440	3.01	≤30	PASS
		2480	3.38	≤30	PASS

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Test Graphs Peak

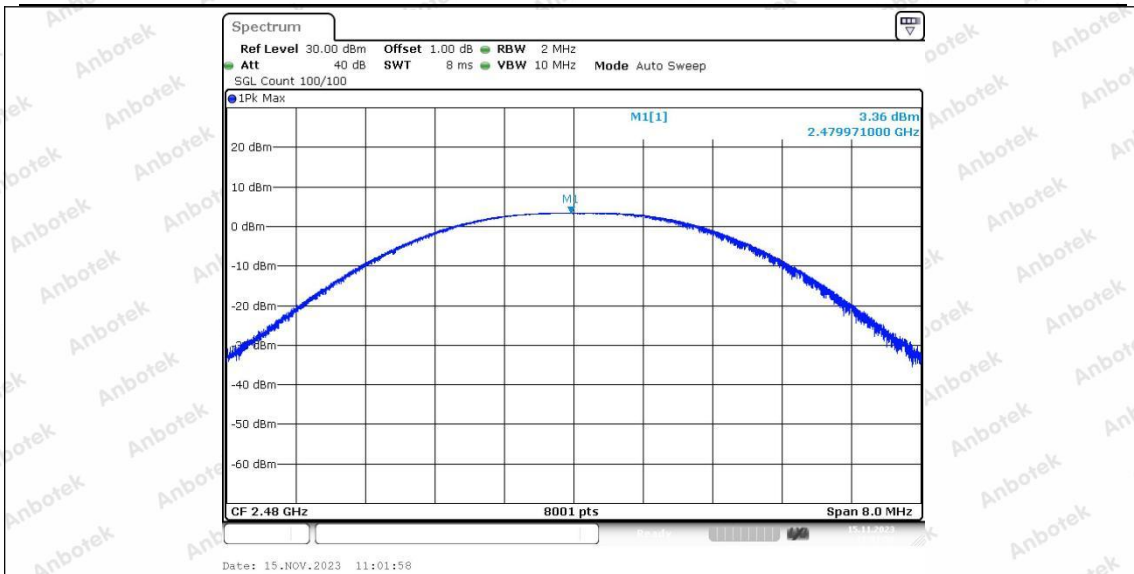


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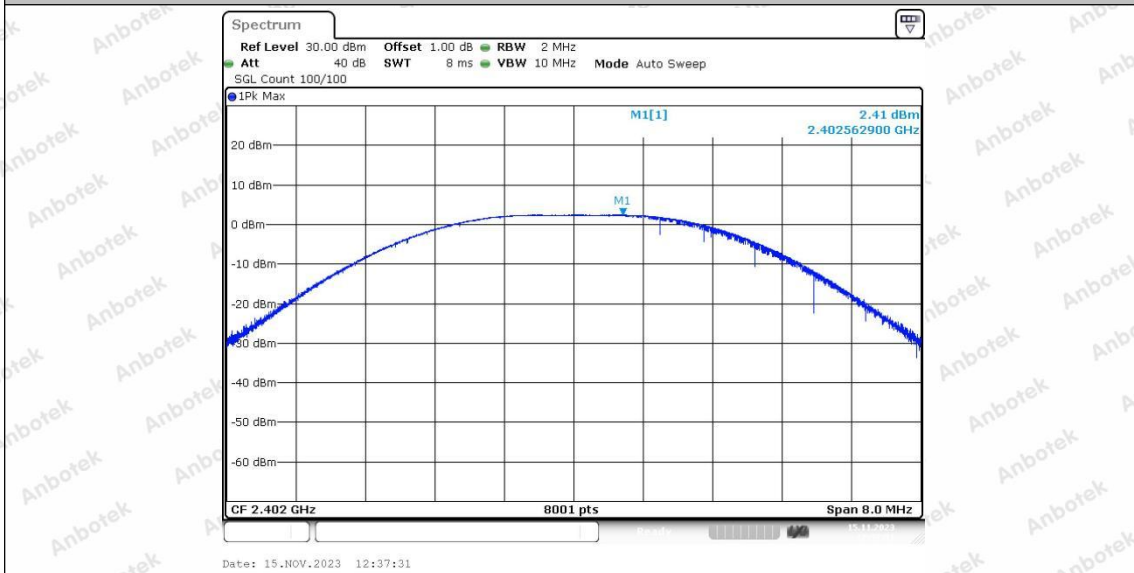
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

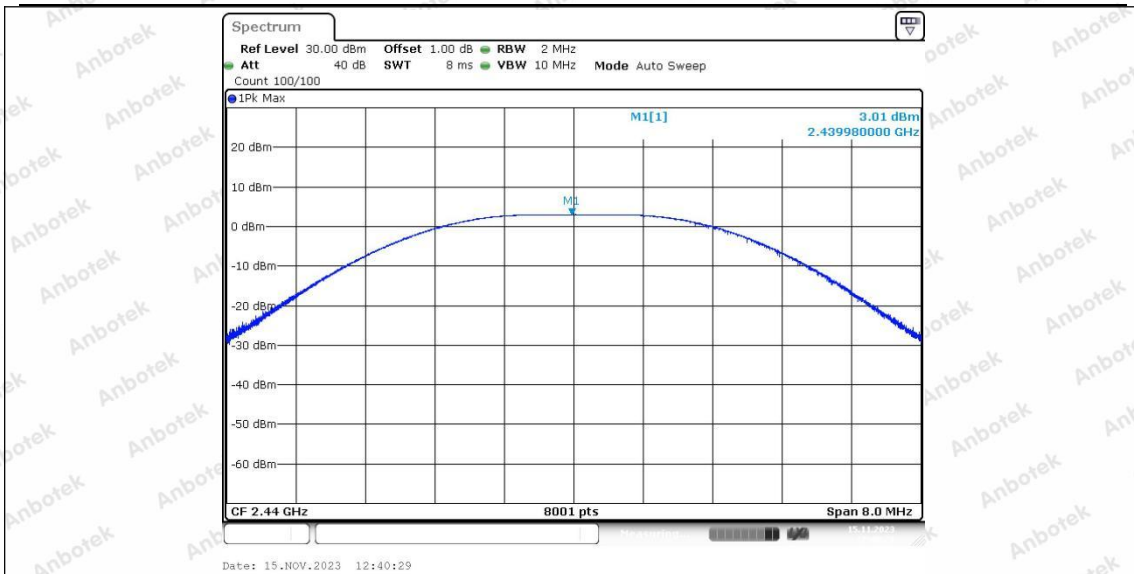
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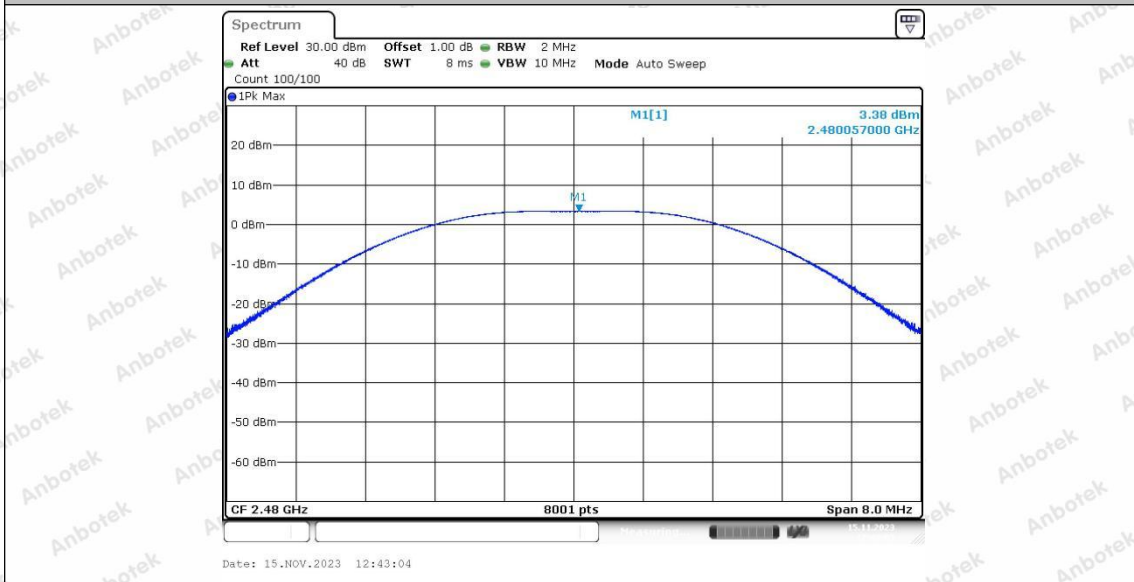


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BLE_2M_Ant1_2480



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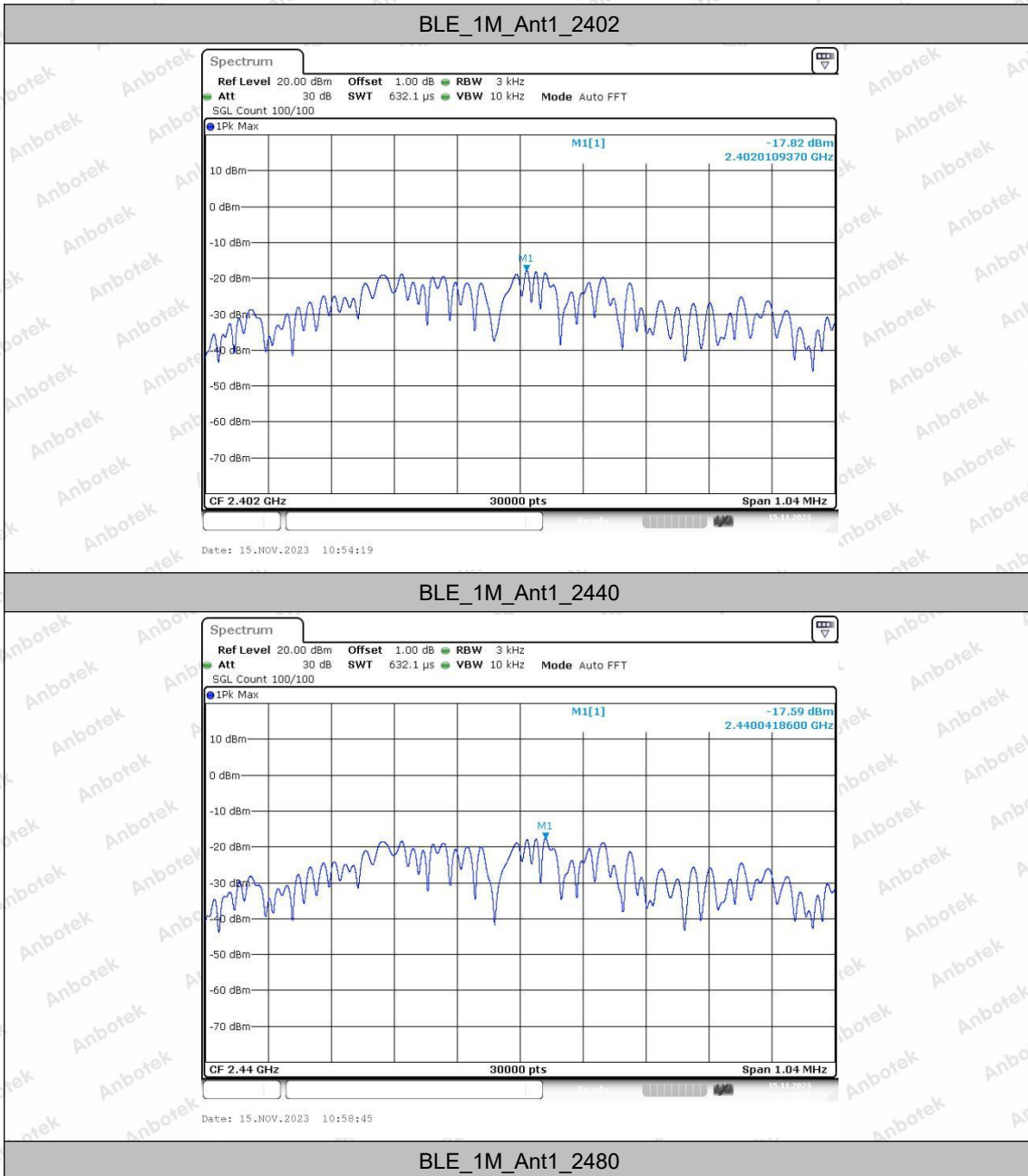
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.82	≤8.00	PASS
		2440	-17.59	≤8.00	PASS
		2480	-17.45	≤8.00	PASS
BLE_2M	Ant1	2402	-20.21	≤8.00	PASS
		2440	-19.68	≤8.00	PASS
		2480	-19.34	≤8.00	PASS



Test Graphs

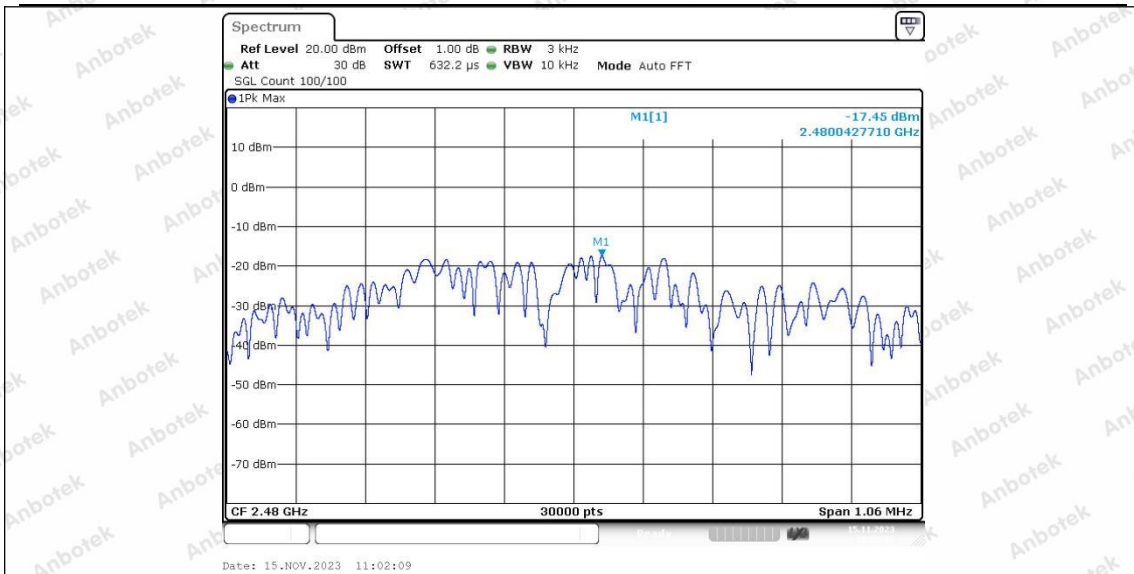


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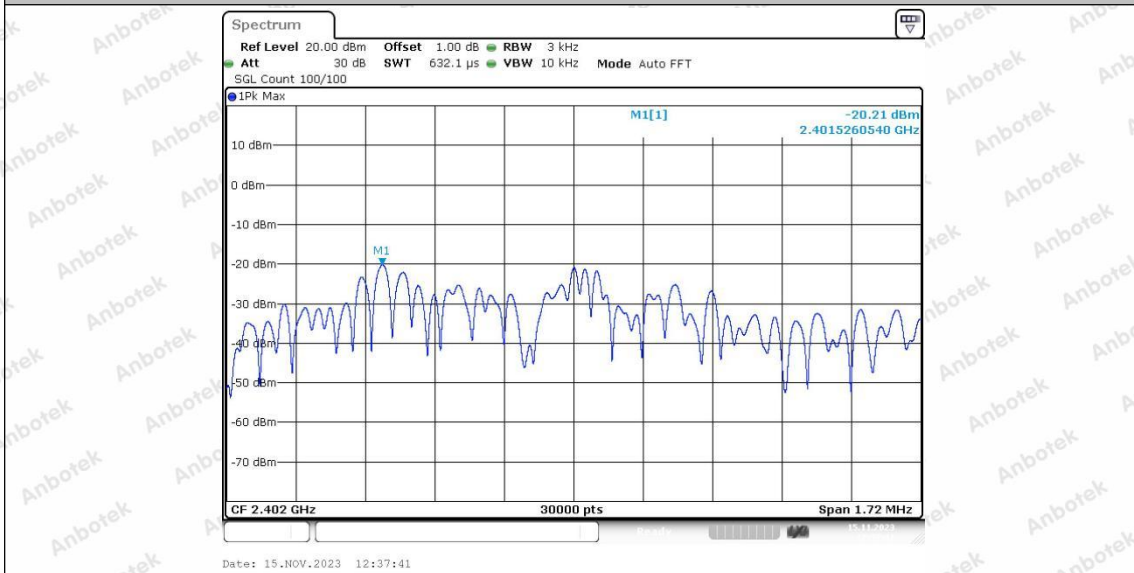
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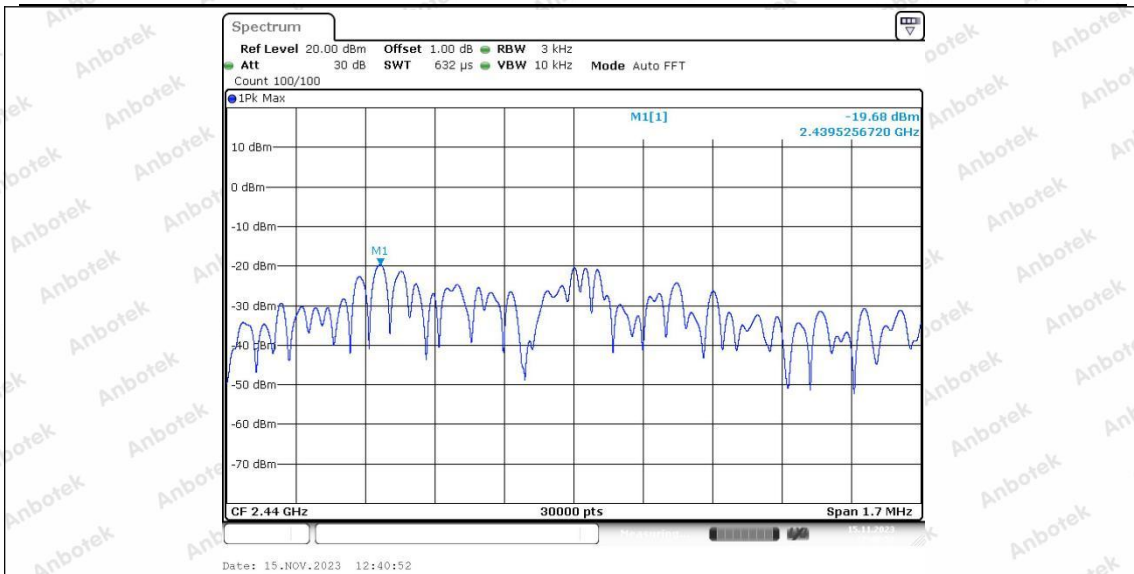


BLE_2M_Ant1_2402

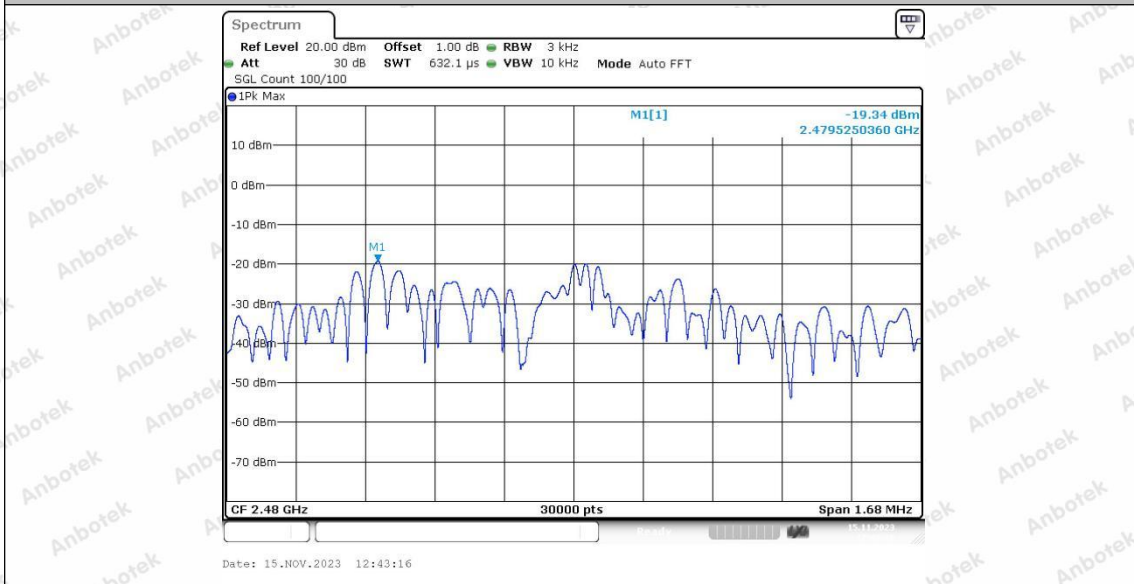


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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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	2.28	-49.27	≤-17.72	PASS
		High	2480	3.03	-52.06	≤-16.97	PASS
BLE_2M	Ant1	Low	2402	1.66	-33.43	≤-18.34	PASS
		High	2480	2.62	-47.73	≤-17.38	PASS



Test Graphs



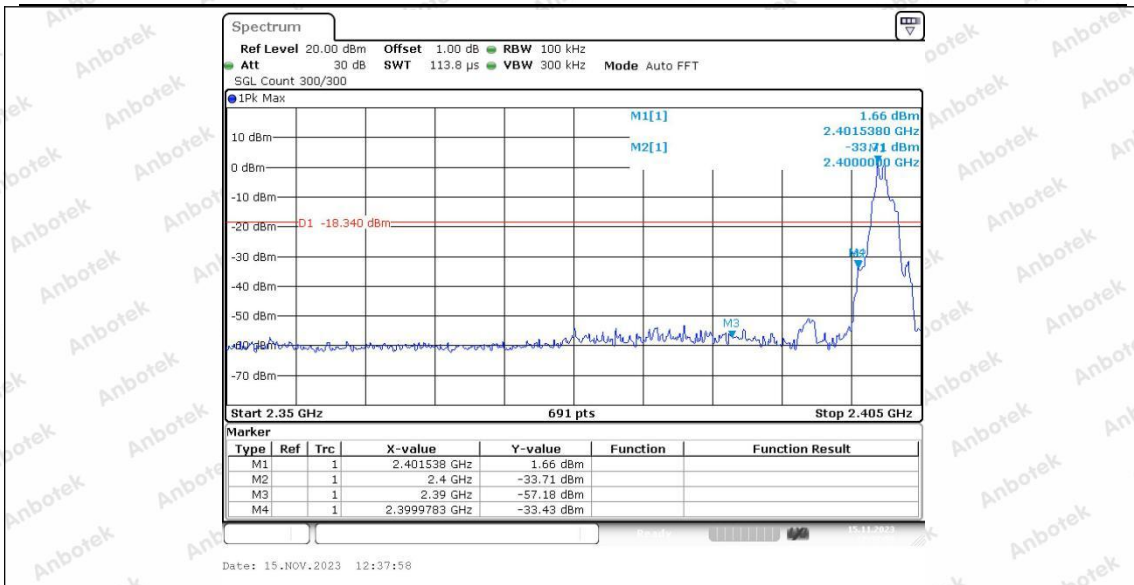
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

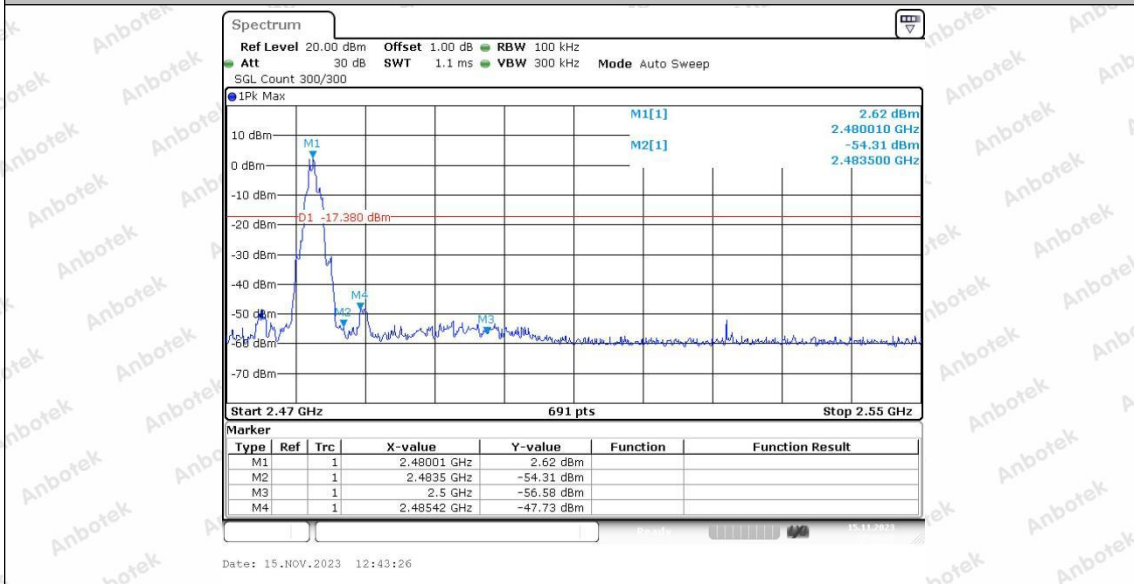


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BLE_2M_Ant1_High_2480



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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	Reference	2.29	2.29	---	PASS	
			30~1000	2.29	-68.13	≤-17.71	PASS	
			1000~26500	2.29	-48.57	≤-17.71	PASS	
		2440	Ant1	Reference	2.78	2.78	---	PASS
				30~1000	2.78	-68.04	≤-17.22	PASS
				1000~26500	2.78	-45.93	≤-17.22	PASS
		2480	Ant1	Reference	3.09	3.09	---	PASS
				30~1000	3.09	-67.86	≤-16.91	PASS
				1000~26500	3.09	-48.97	≤-16.91	PASS
BLE_2M	Ant1	2402	Reference	1.70	1.70	---	PASS	
			30~1000	1.70	-67.46	≤-18.3	PASS	
			1000~26500	1.70	-49.52	≤-18.3	PASS	
		2440	Ant1	Reference	2.21	2.21	---	PASS
				30~1000	2.21	-68.21	≤-17.79	PASS
				1000~26500	2.21	-56.78	≤-17.79	PASS
		2480	Ant1	Reference	2.56	2.56	---	PASS
				30~1000	2.56	-68.66	≤-17.44	PASS
				1000~26500	2.56	-44.7	≤-17.44	PASS

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Test Graphs

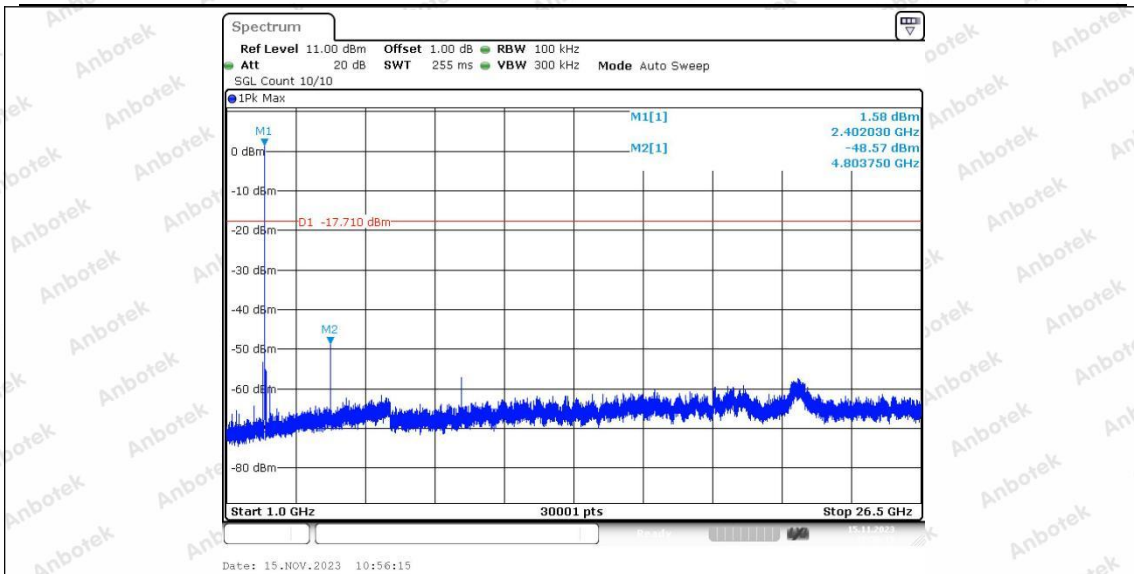


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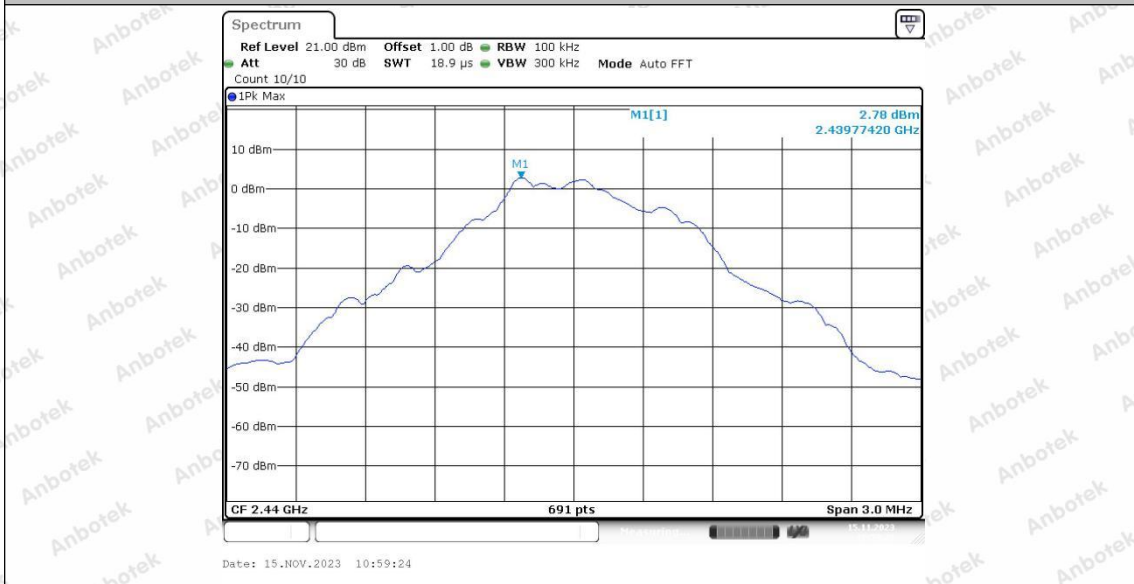
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2440_0~Reference



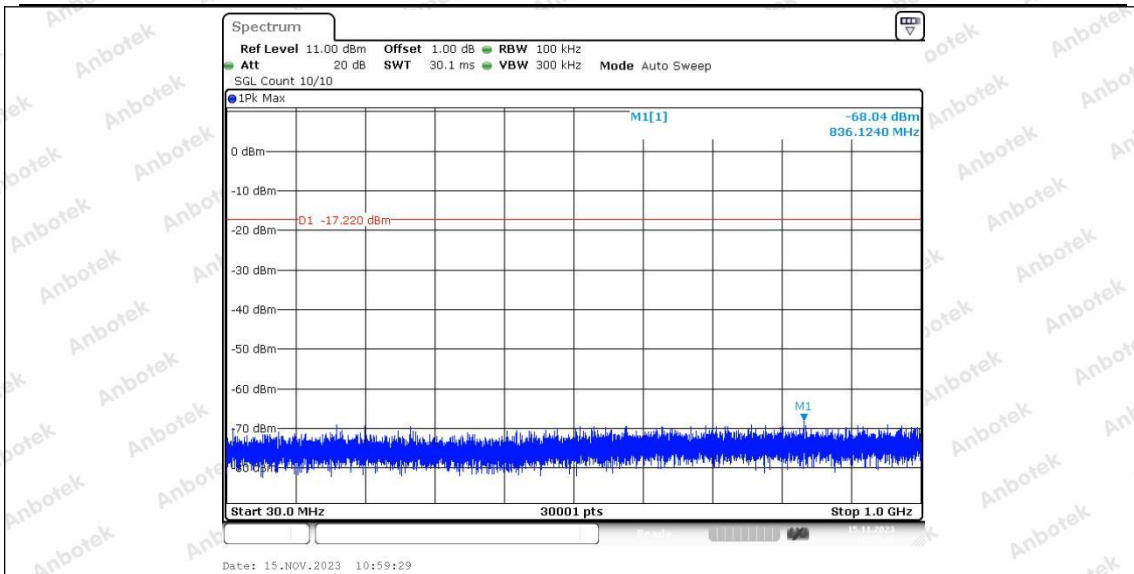
BLE_1M_Ant1_2440_30~1000

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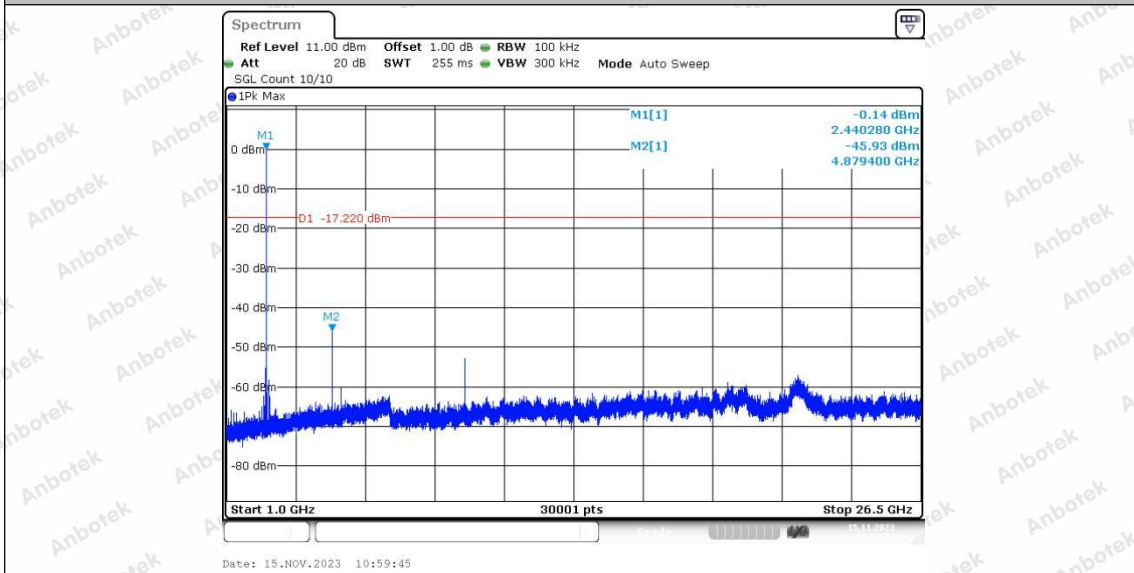
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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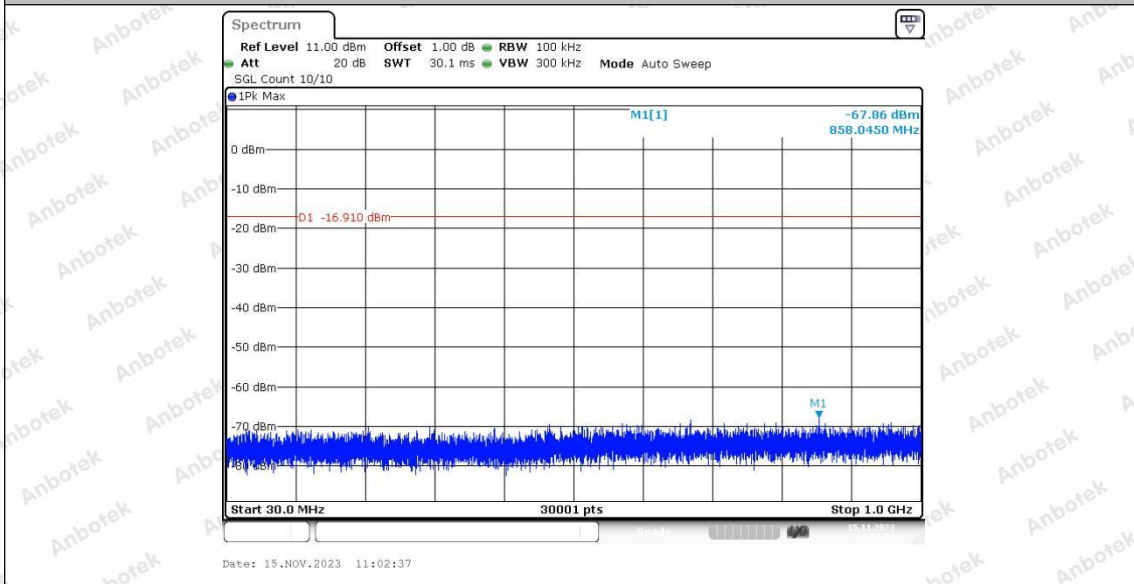
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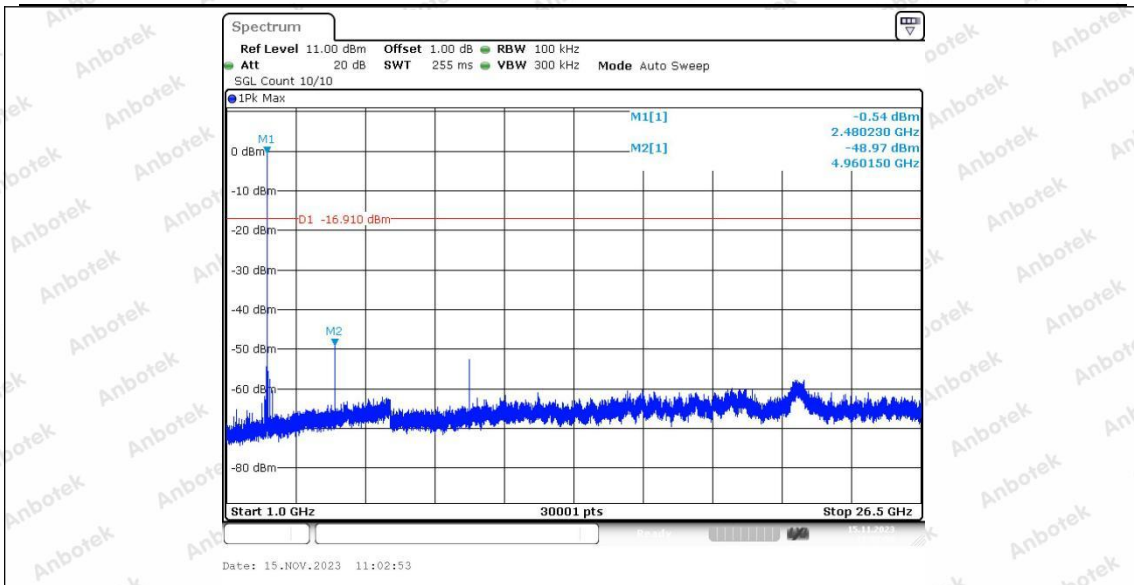


BLE_1M_Ant1_2480_30~1000

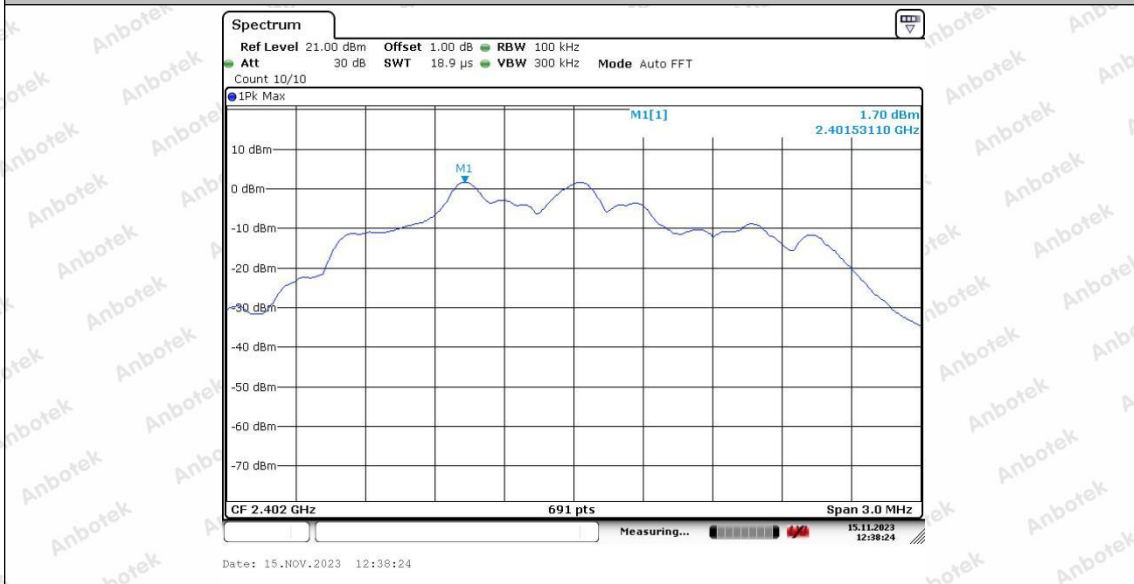


BLE_1M_Ant1_2480_1000~26500



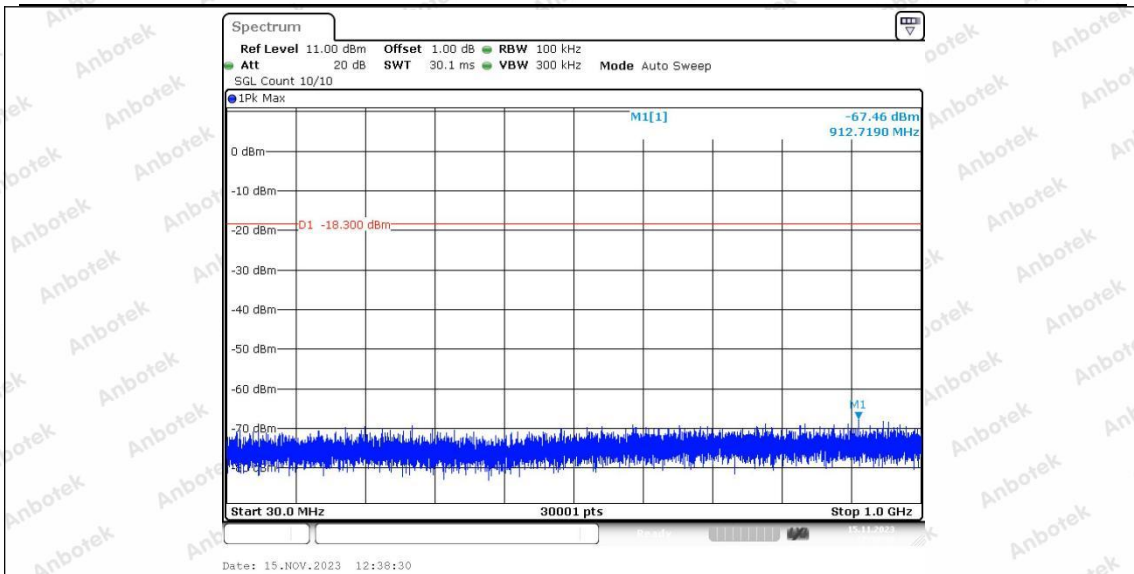


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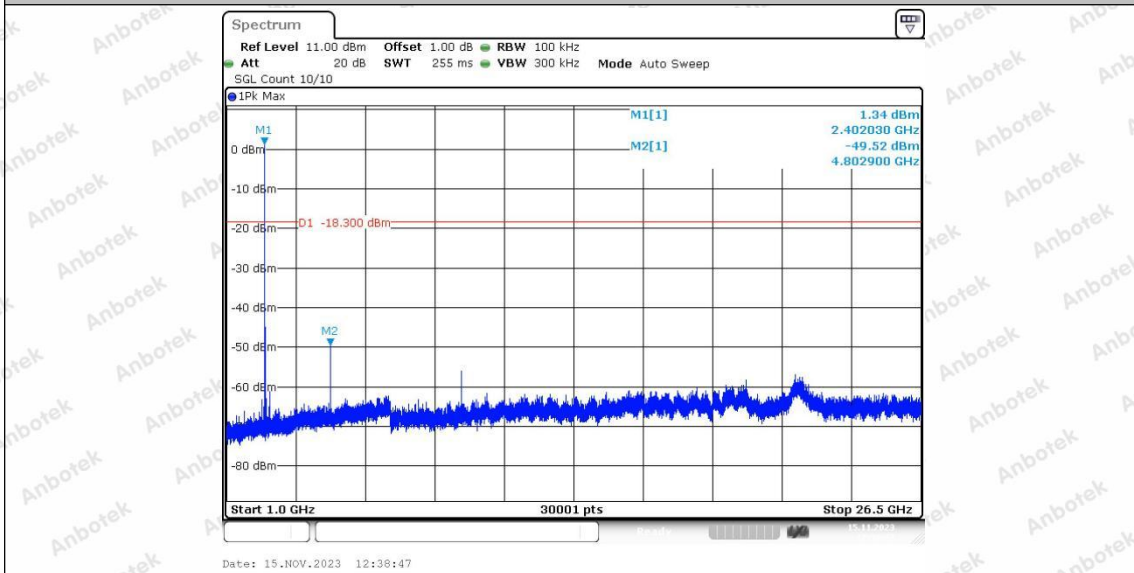


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



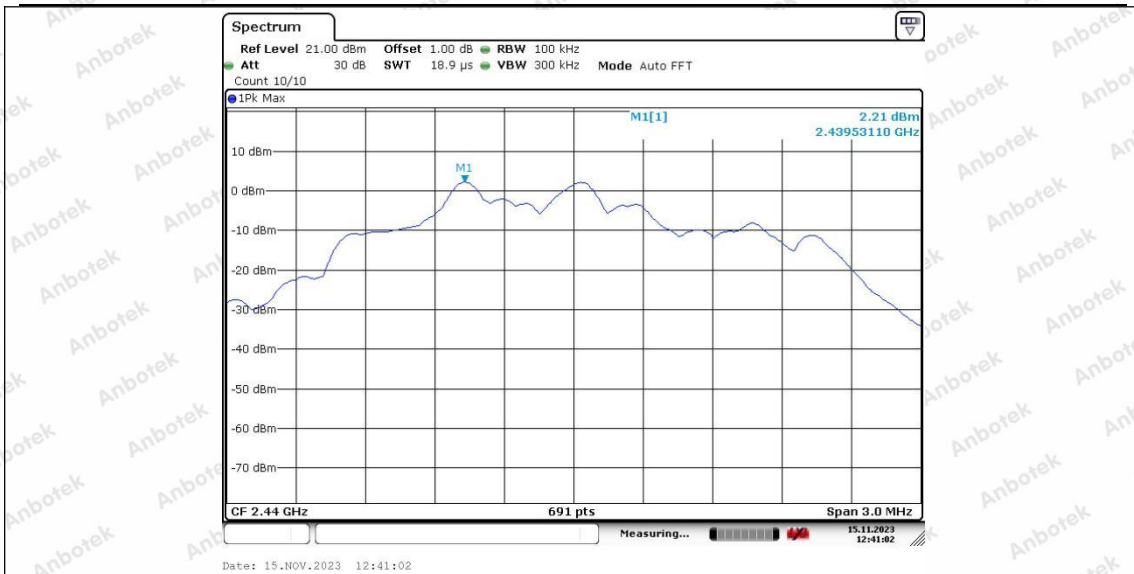
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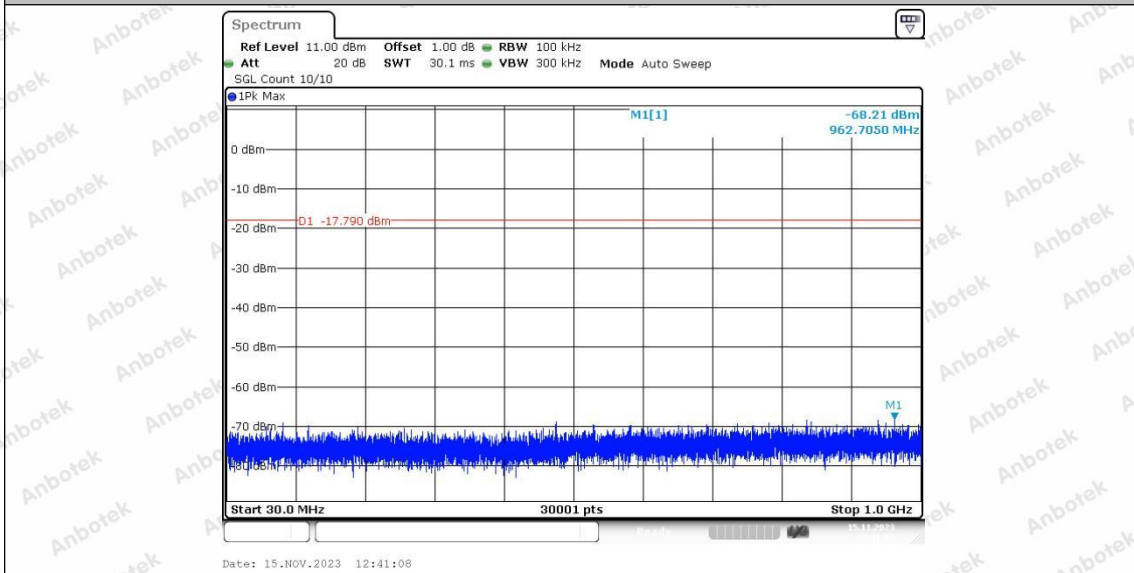
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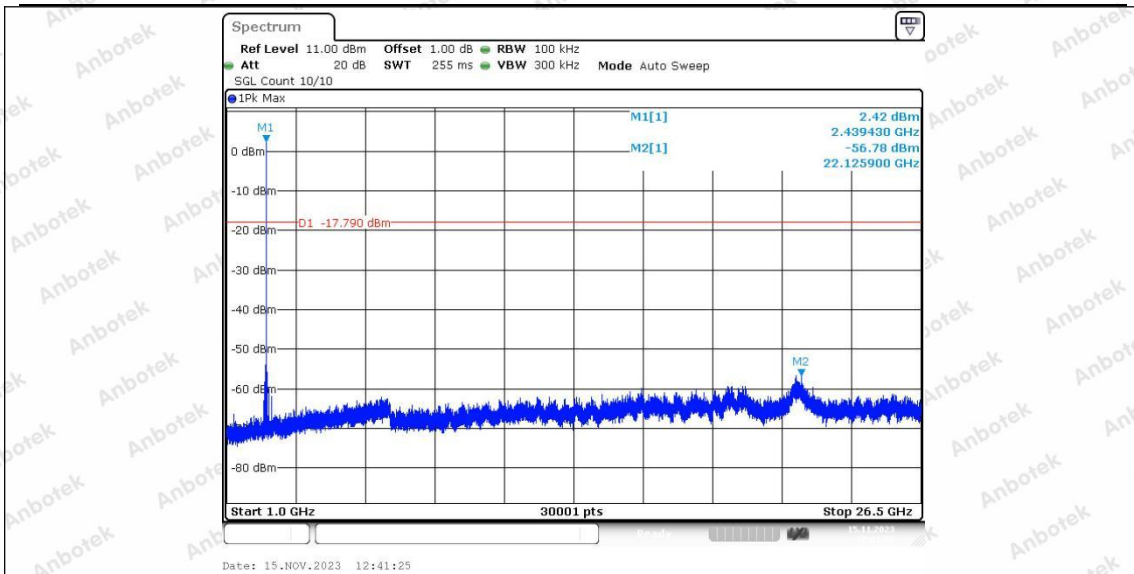


BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



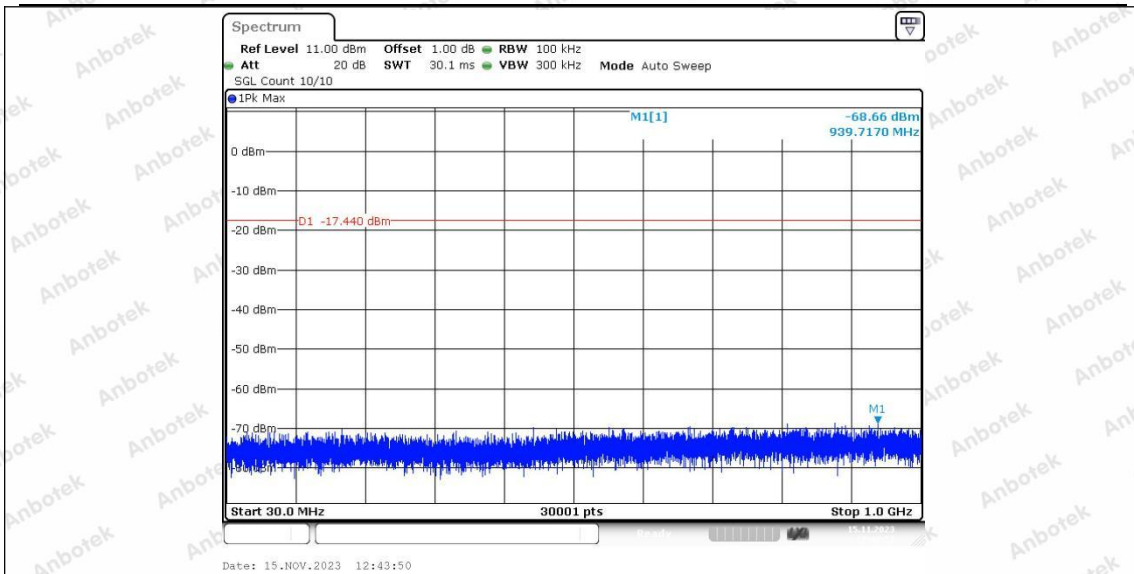


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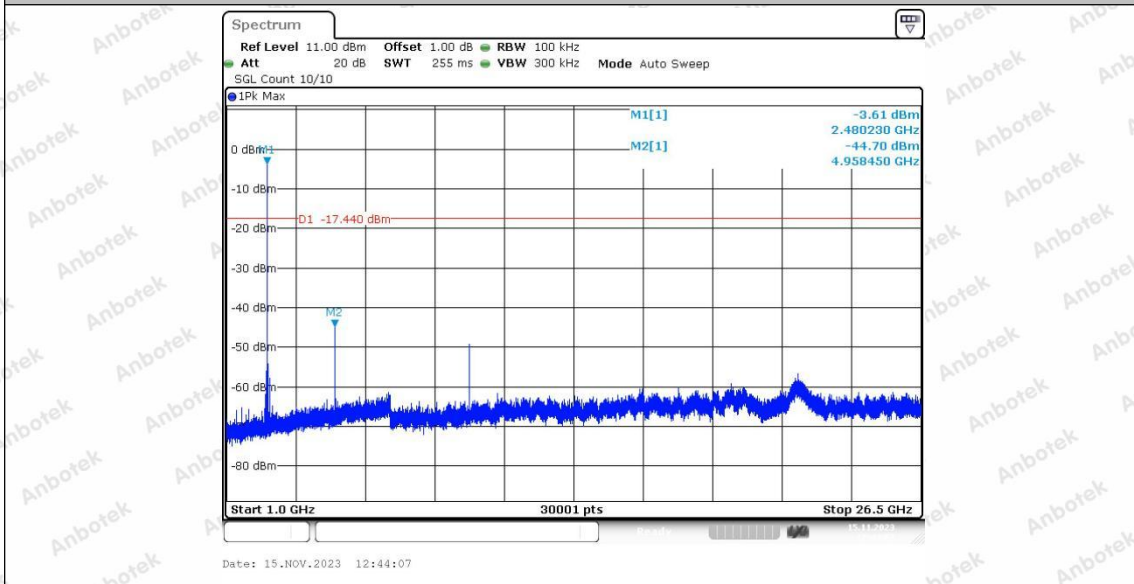


BLE_2M_Ant1_2480_30~1000





BLE_2M_Ant1_2480_1000~26500



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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	0.09	0.62	14.52	8.38
		2440	0.09	0.62	14.52	8.38
		2480	0.09	0.62	14.52	8.38
BLE_2M	Ant1	2402	0.05	0.62	8.06	10.94
		2440	0.05	0.62	8.06	10.94
		2480	0.05	0.62	8.06	10.94

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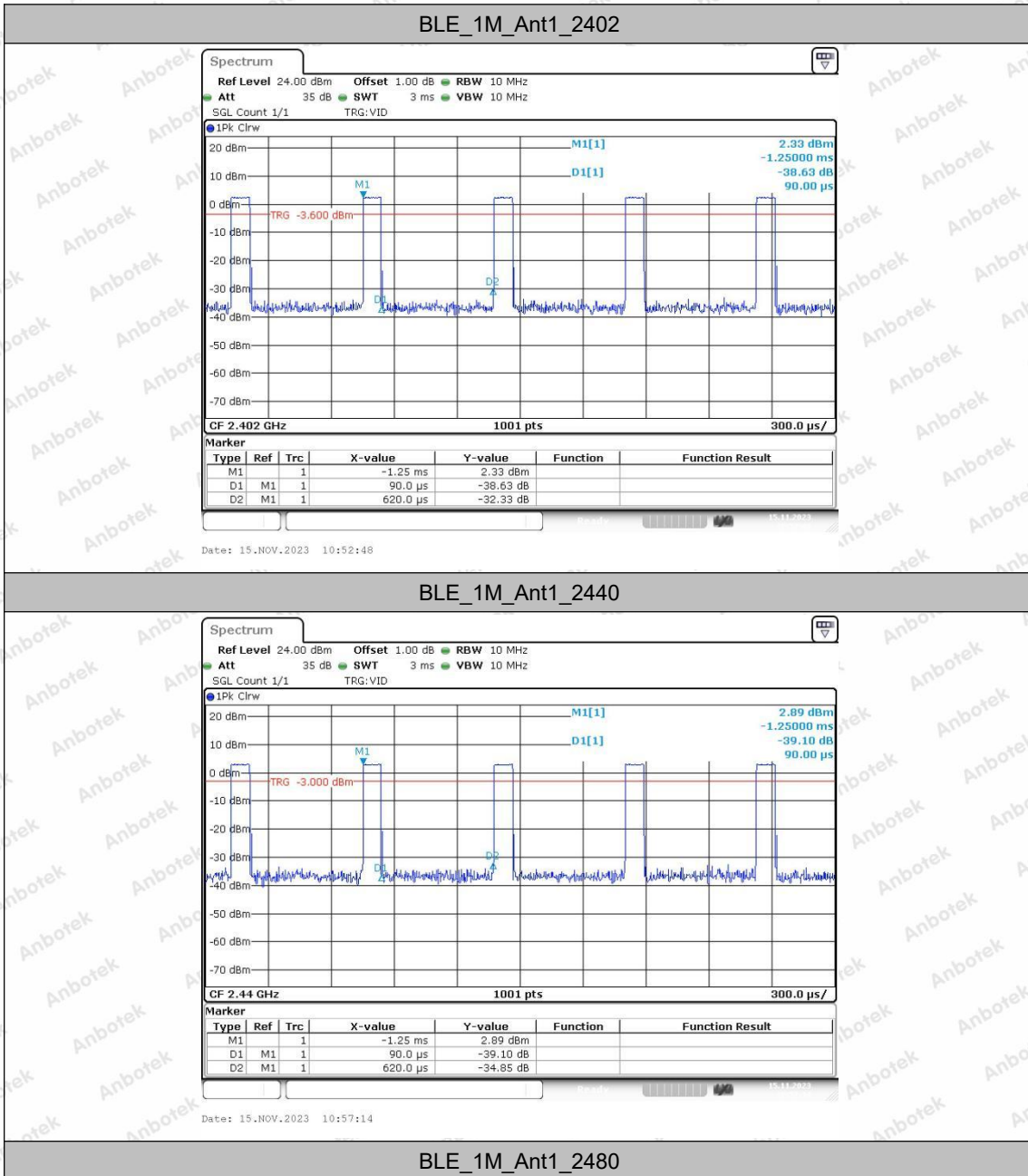
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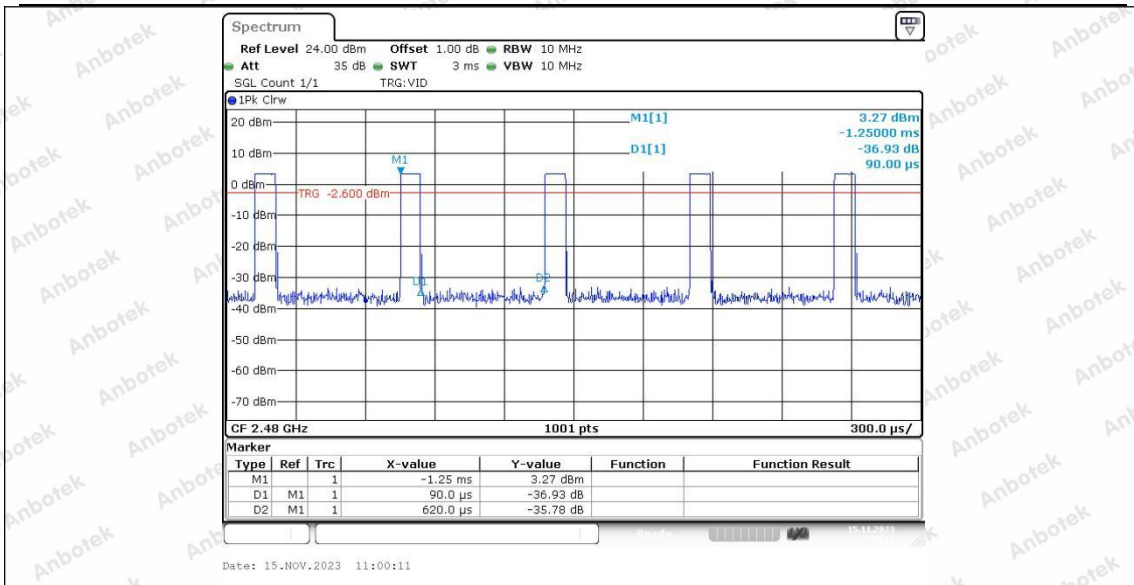


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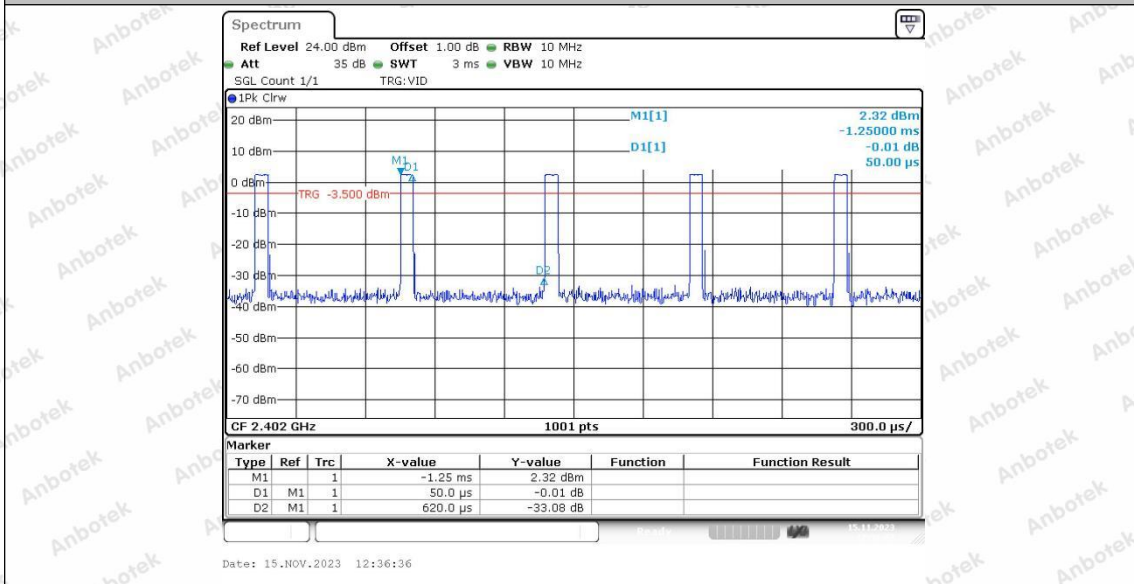


Test Graphs



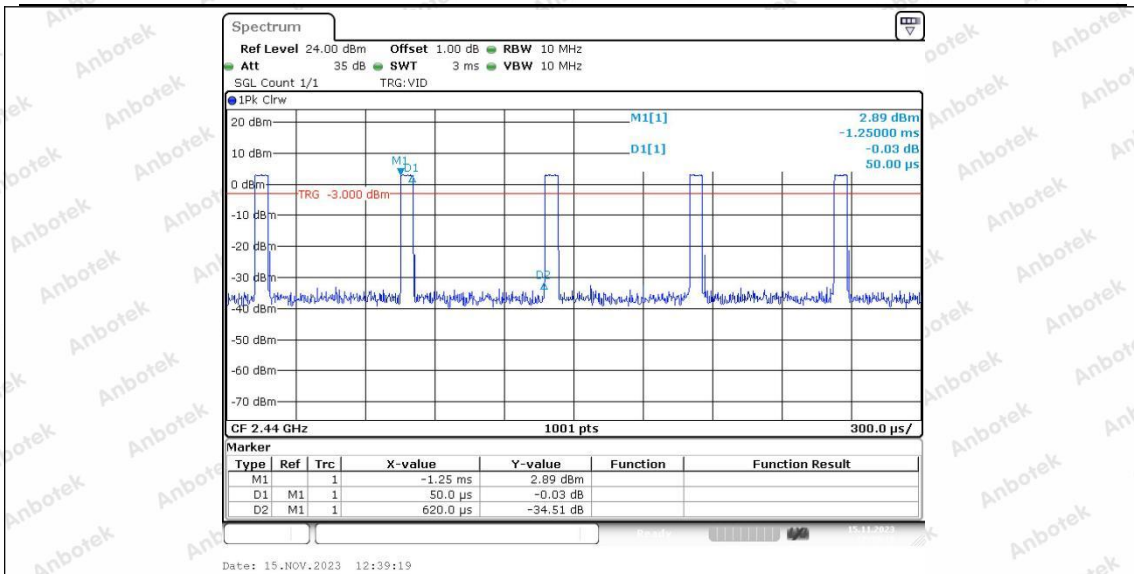


BLE_2M_Ant1_2402

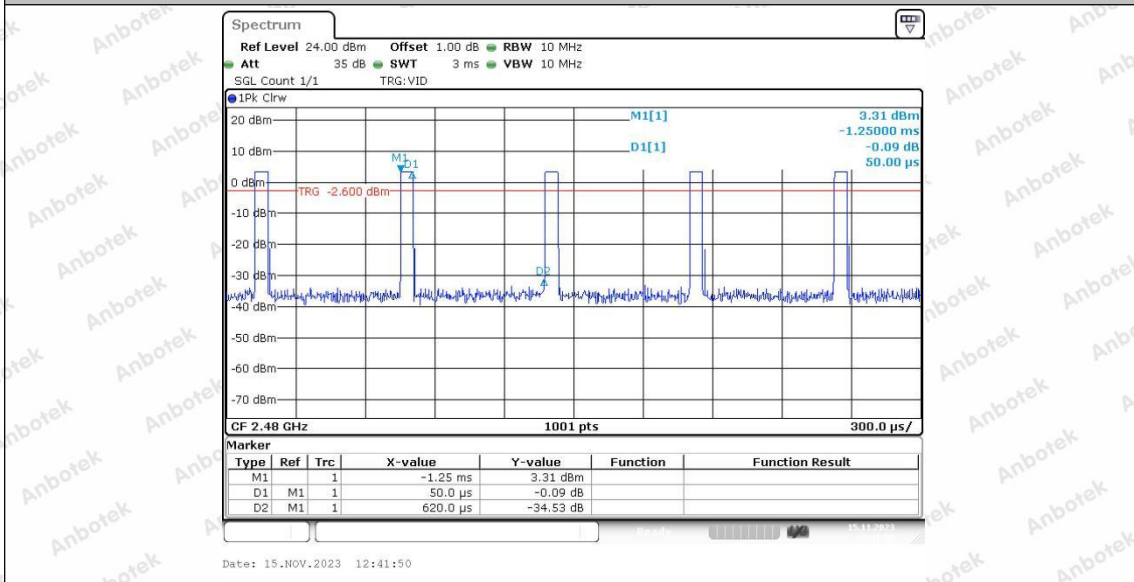


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---End---

