

## Appendix Test Data

Report No.:	18360WC30012901	Test Sample No.:	1-2-2
Start Test Date:	2023.10.16	Finish Test Date:	2023.10.23
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.7°C	Relative Humidity:	48.3%
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	0.65	2401.66	2402.31	0.5	PASS
		2440	0.64	2439.67	2440.30	0.5	PASS
		2480	0.64	2479.66	2480.30	0.5	PASS
BLE_2M	Ant1	2402	1.08	2401.46	2402.55	0.5	PASS
		2440	1.27	2439.32	2440.59	0.5	PASS
		2480	1.27	2479.32	2480.58	0.5	PASS

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## Test Graphs

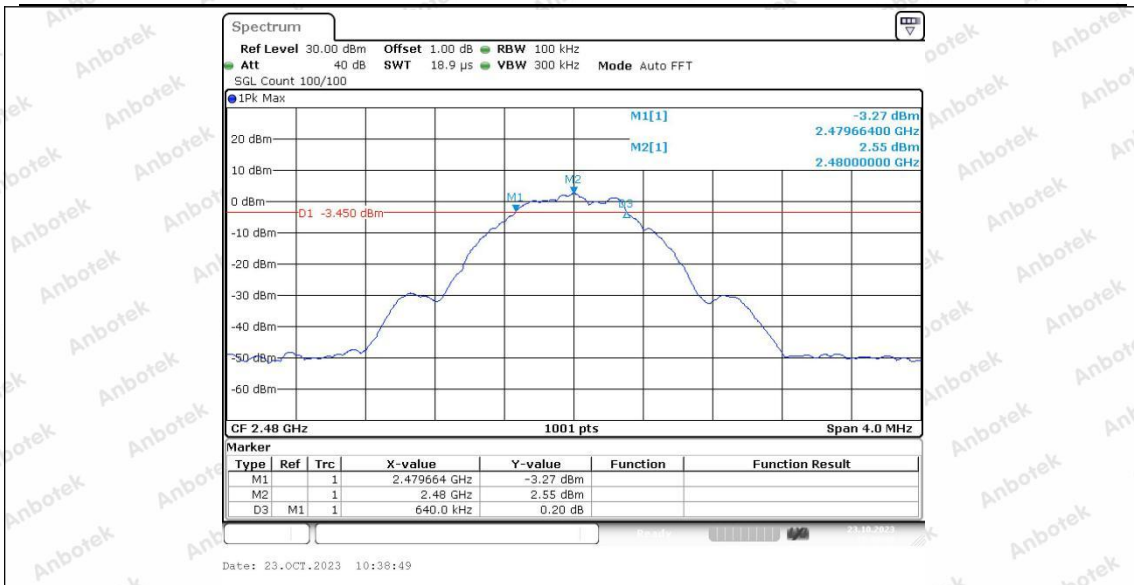


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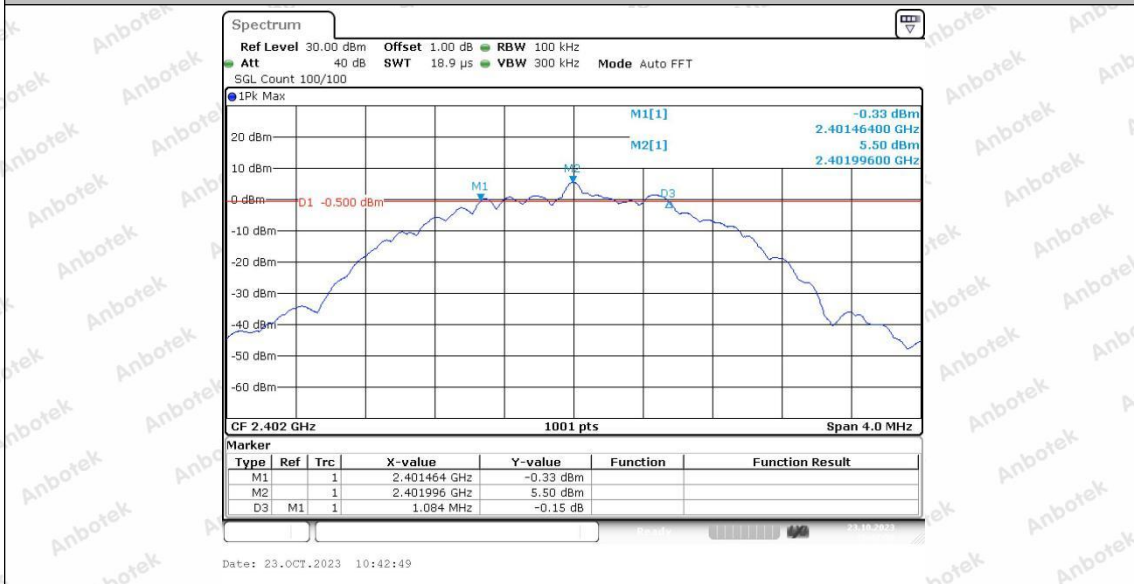
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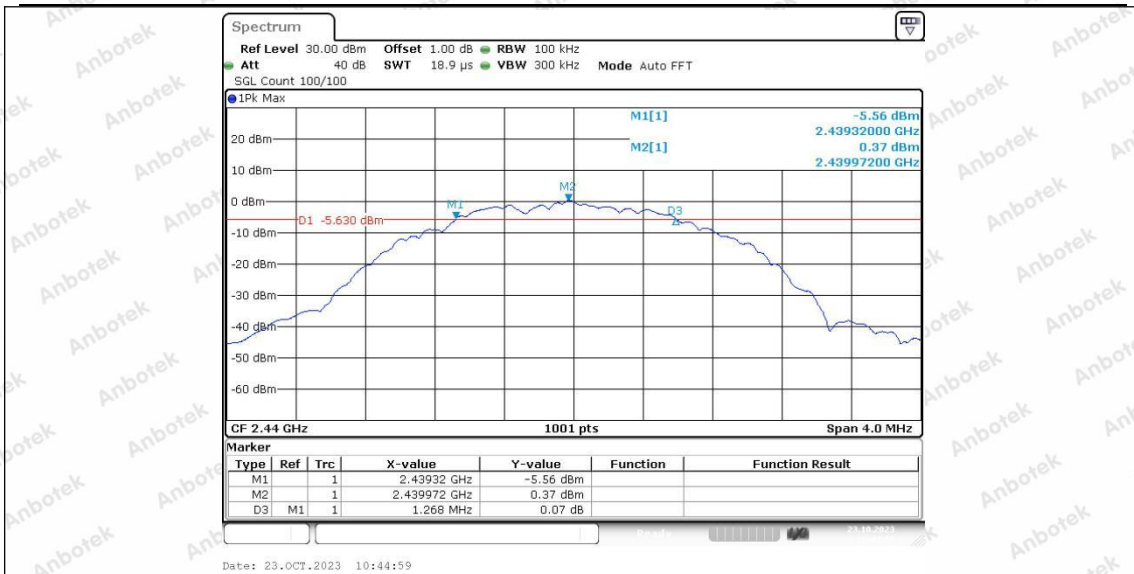


BLE\_2M\_Ant1\_2402

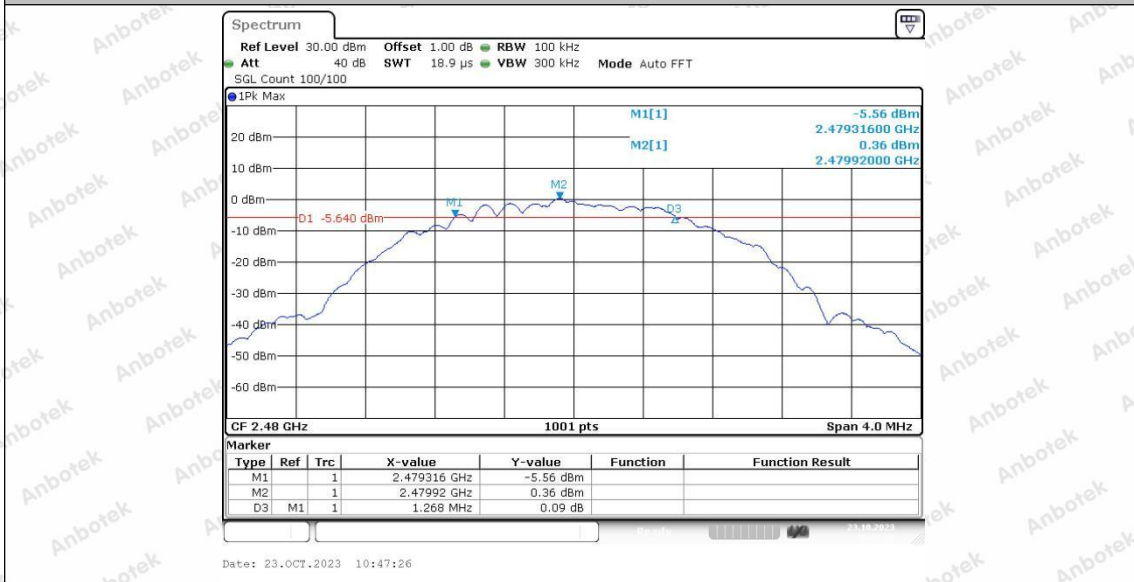


BLE\_2M\_Ant1\_2440





## BLE\_2M\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.027	2401.4765	2402.5035
		2440	1.019	2439.4765	2440.4955
		2480	1.027	2479.4725	2480.4995
BLE_2M	Ant1	2402	2.046	2400.9650	2403.0110
		2440	2.018	2438.9810	2440.9990
		2480	2.042	2478.9730	2481.0150

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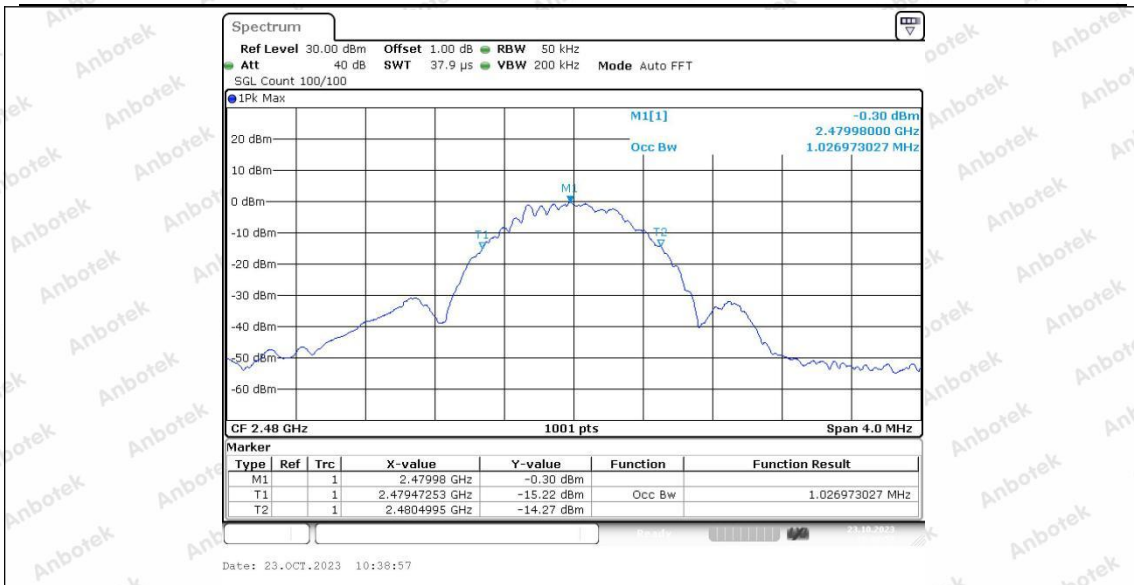


## Test Graphs

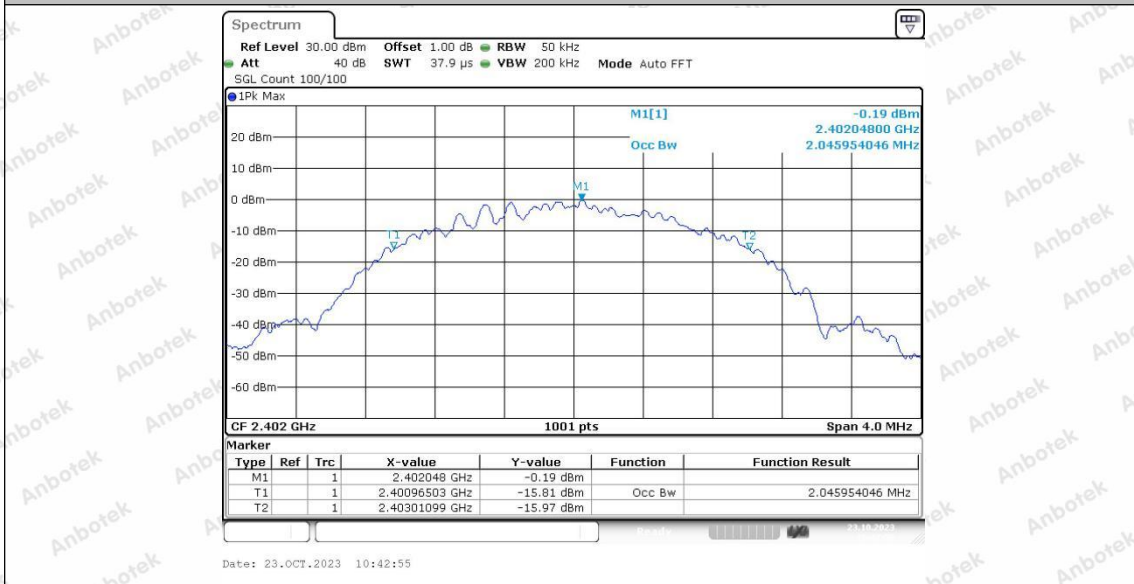


BLE\_1M\_Ant1\_2480



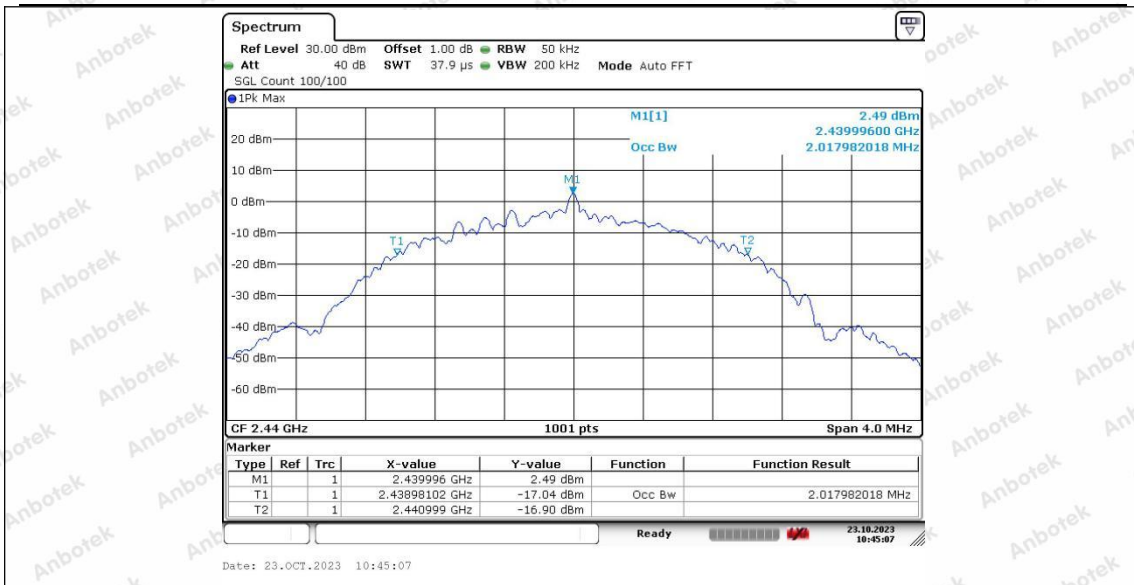


BLE\_2M\_Ant1\_2402

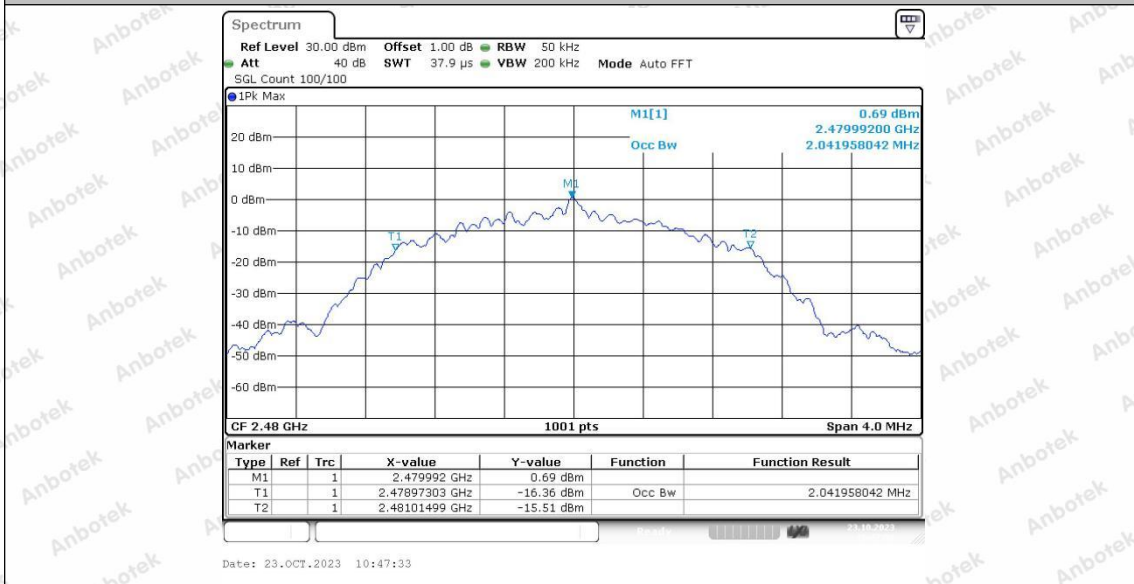


BLE\_2M\_Ant1\_2440





## 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	3.02	≤30	PASS
		2440	3.89	≤30	PASS
		2480	3.32	≤30	PASS
BLE_2M	Ant1	2402	2.96	≤30	PASS
		2440	3.55	≤30	PASS
		2480	3.40	≤30	PASS

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## Test Graphs Peak



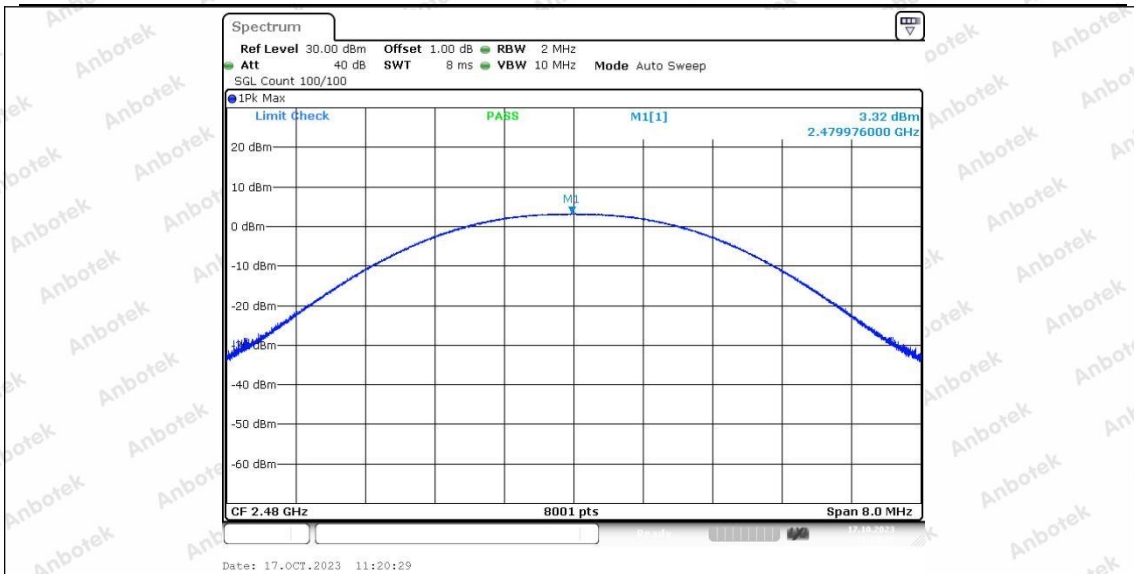
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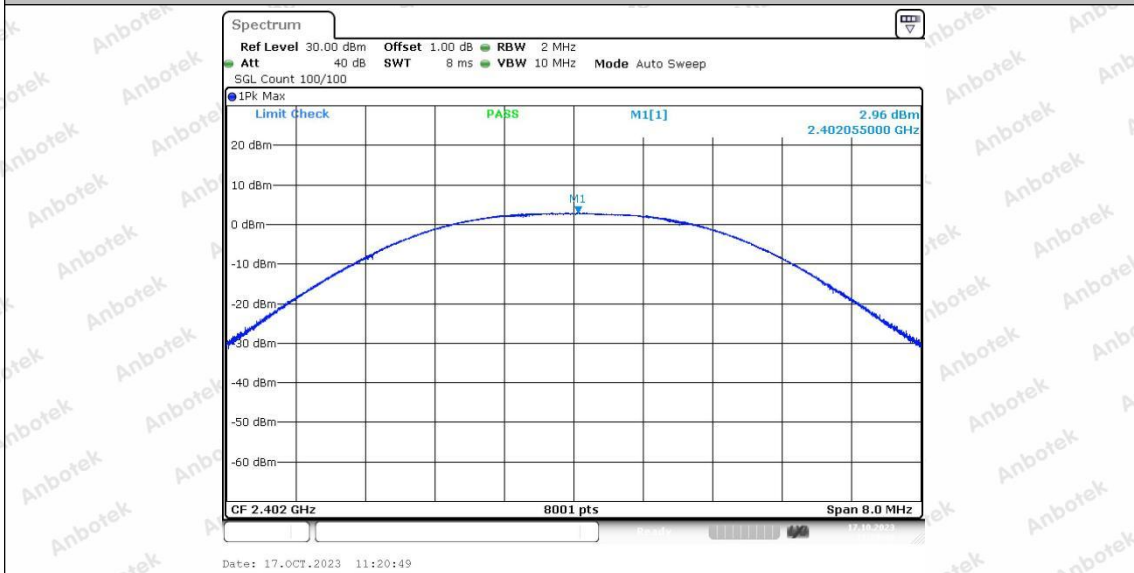


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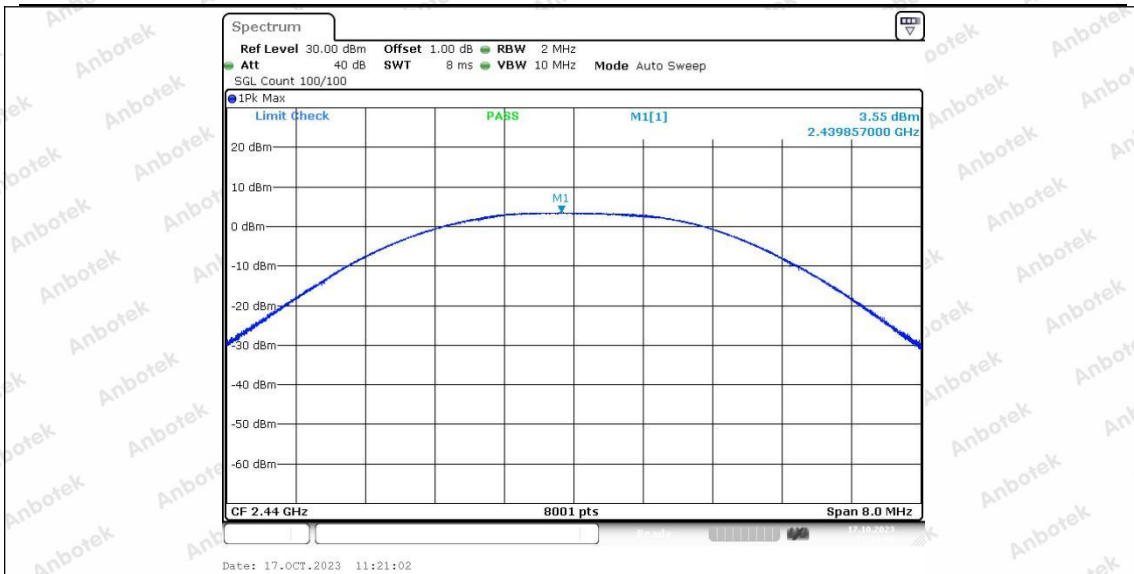


BLE\_2M\_Ant1\_2402

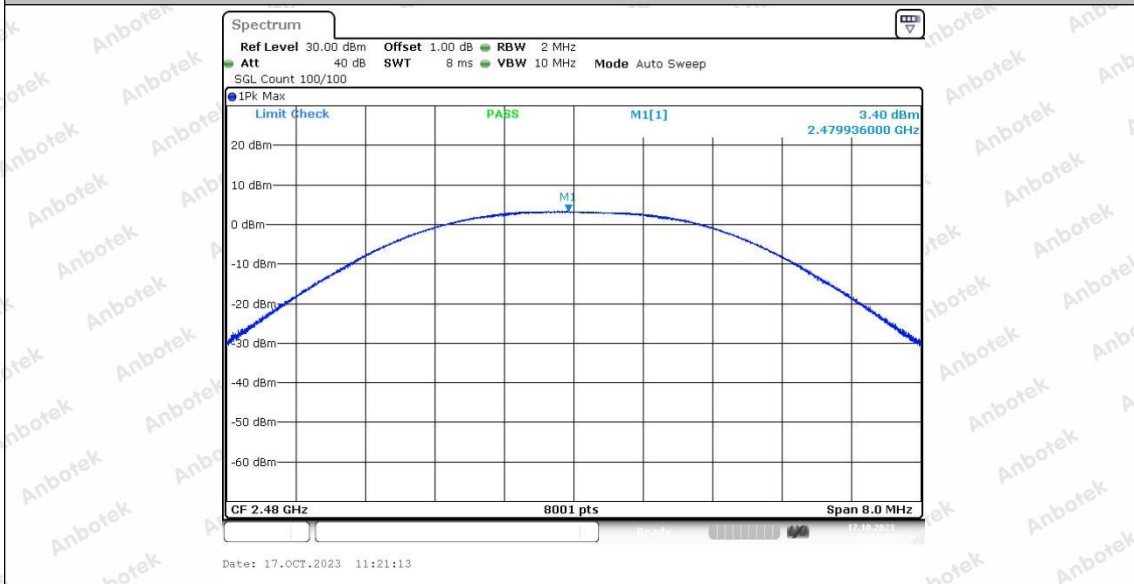


BLE\_2M\_Ant1\_2440





## 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	-13.13	≤8.00	PASS
		2440	-12.24	≤8.00	PASS
		2480	-12.38	≤8.00	PASS
BLE_2M	Ant1	2402	-11.88	≤8.00	PASS
		2440	-13.87	≤8.00	PASS
		2480	-13.77	≤8.00	PASS



## Test Graphs

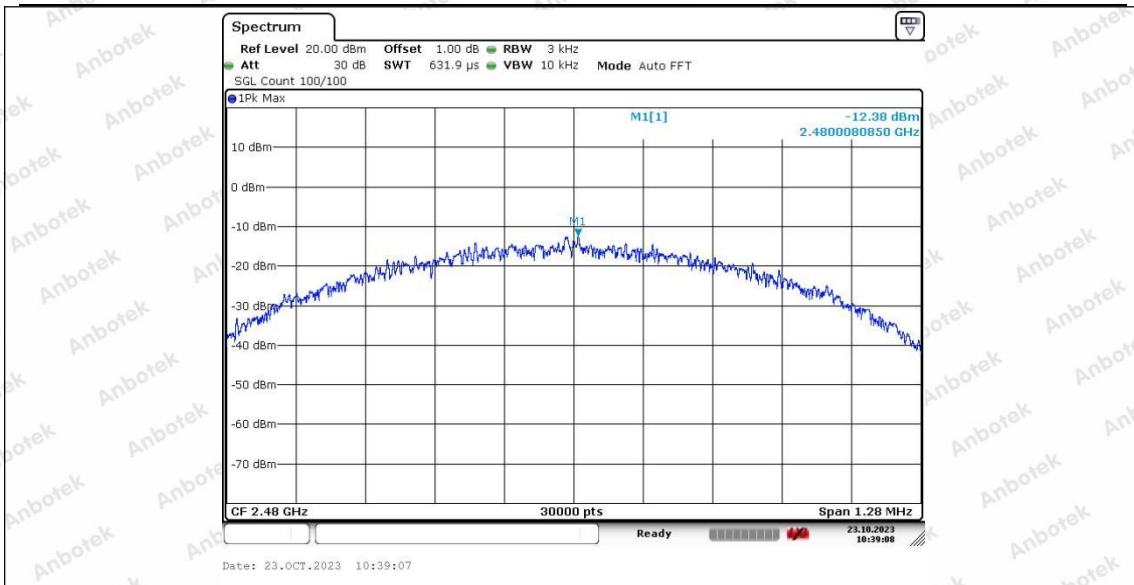


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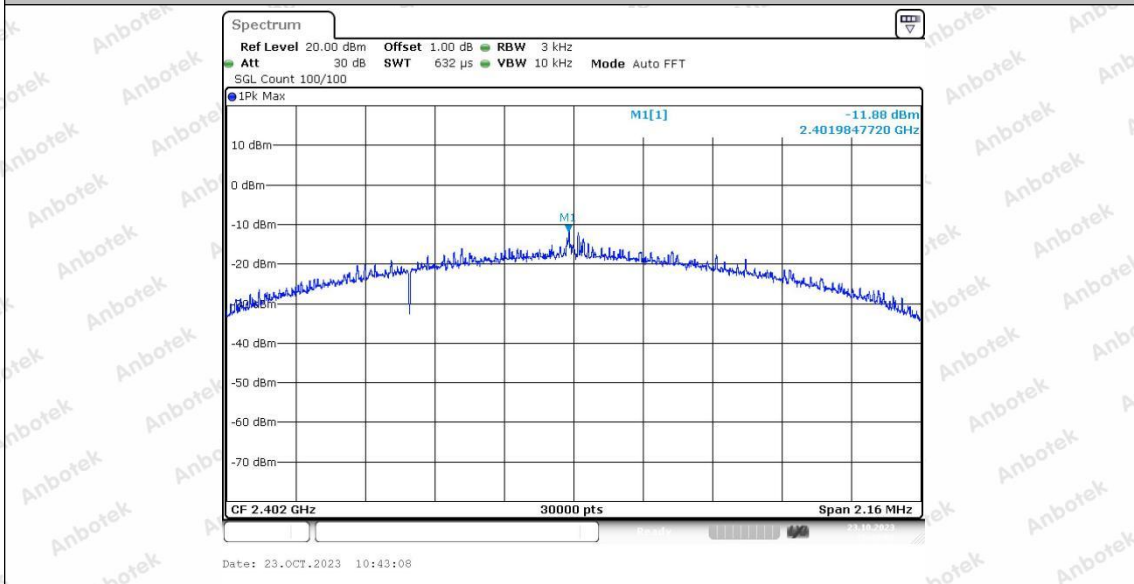
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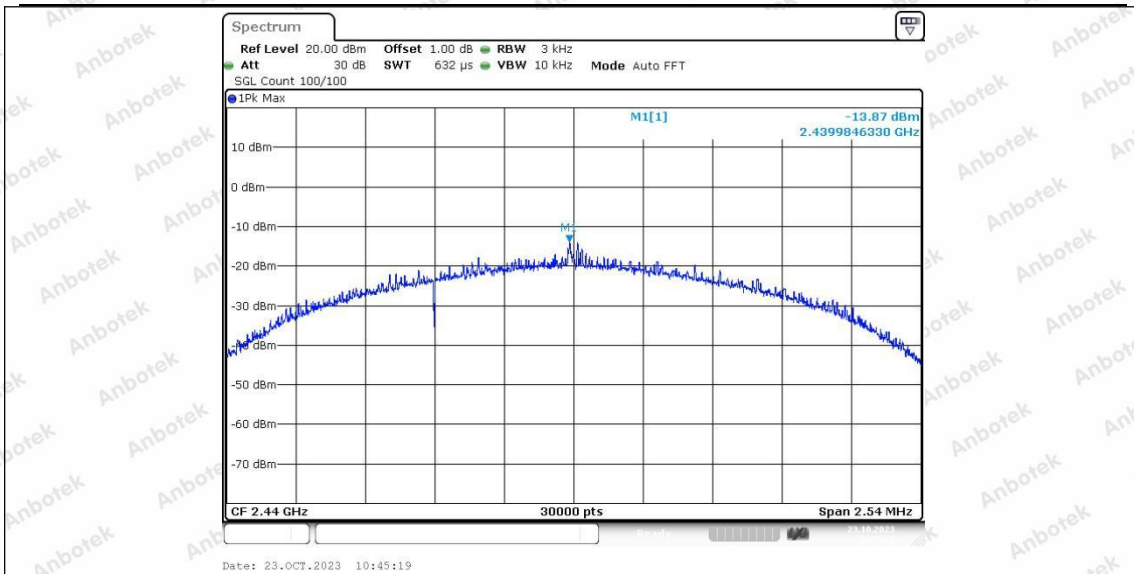


BLE\_2M\_Ant1\_2402

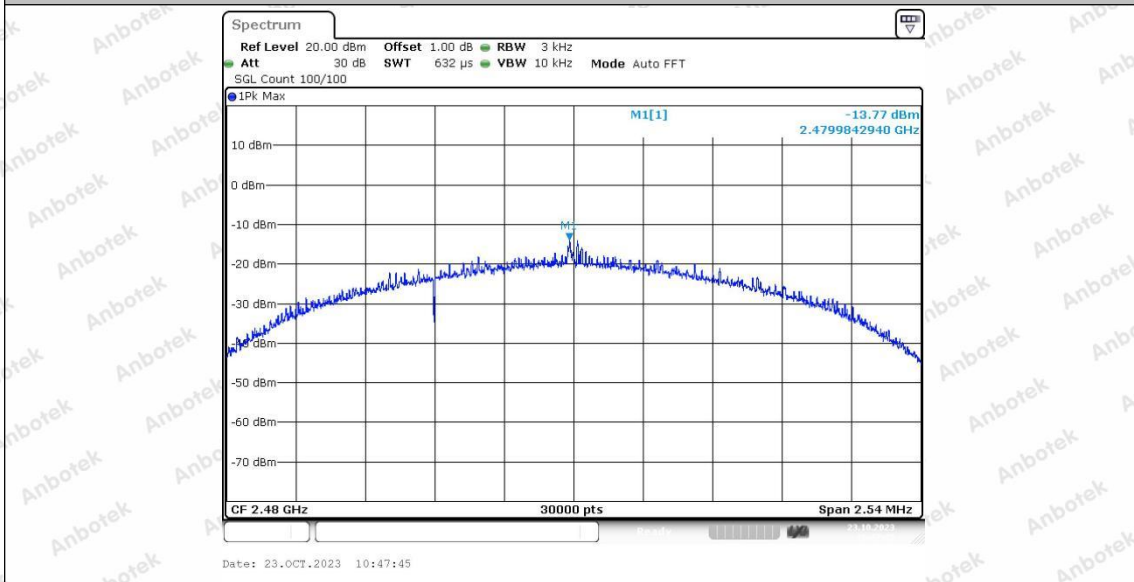


BLE\_2M\_Ant1\_2440





## BLE\_2M\_Ant1\_2480



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.99	-54.39	≤-18.01	PASS
		High	2480	1.99	-55.91	≤-18.01	PASS
BLE_2M	Ant1	Low	2402	5.01	-43.28	≤-14.99	PASS
		High	2480	1.75	-56.29	≤-18.25	PASS

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## Test Graphs



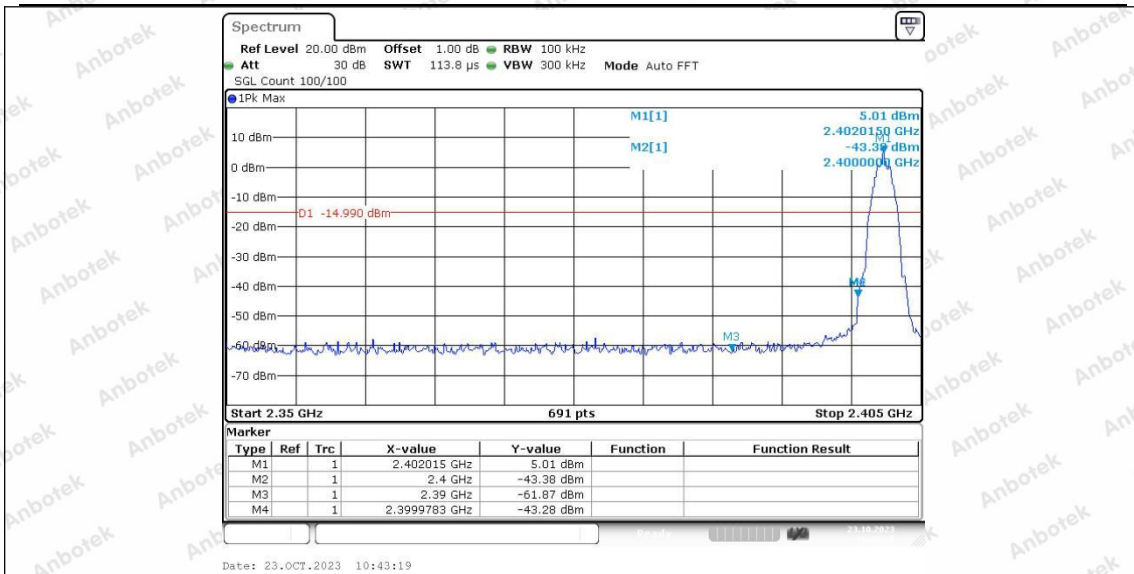
BLE\_2M\_Ant1\_Low\_2402

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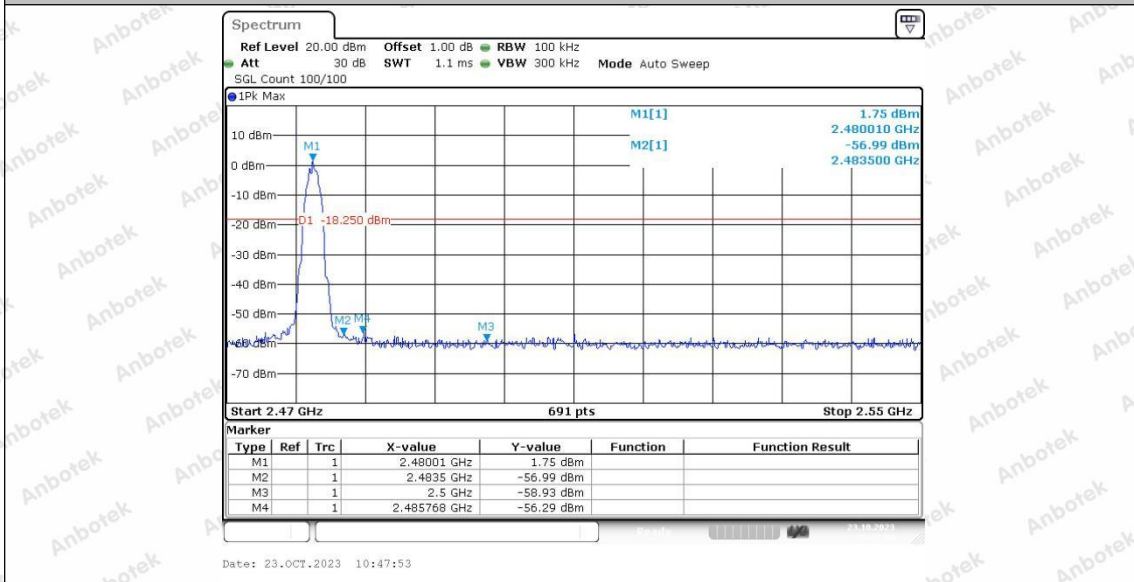
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## BLE\_2M\_Ant1\_High\_2480



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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	2.33	2.33	---	PASS
			30~1000	2.33	-68.52	≤-17.67	PASS
			1000~26500	2.33	-58.76	≤-17.67	PASS
		2440	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-68.47	≤-16.55	PASS
			1000~26500	3.45	-56.6	≤-16.55	PASS
		2480	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-68.52	≤-17.05	PASS
			1000~26500	2.95	-53.67	≤-17.05	PASS
BLE_2M	Ant1	2402	Reference	5.60	5.60	---	PASS
			30~1000	5.60	-68.84	≤-14.4	PASS
			1000~26500	5.60	-54.56	≤-14.4	PASS
		2440	Reference	3.85	3.85	---	PASS
			30~1000	3.85	-68.7	≤-16.15	PASS
			1000~26500	3.85	-56.43	≤-16.15	PASS
		2480	Reference	3.43	3.43	---	PASS
			30~1000	3.43	-67.81	≤-16.57	PASS
			1000~26500	3.43	-54.13	≤-16.57	PASS

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## Test Graphs

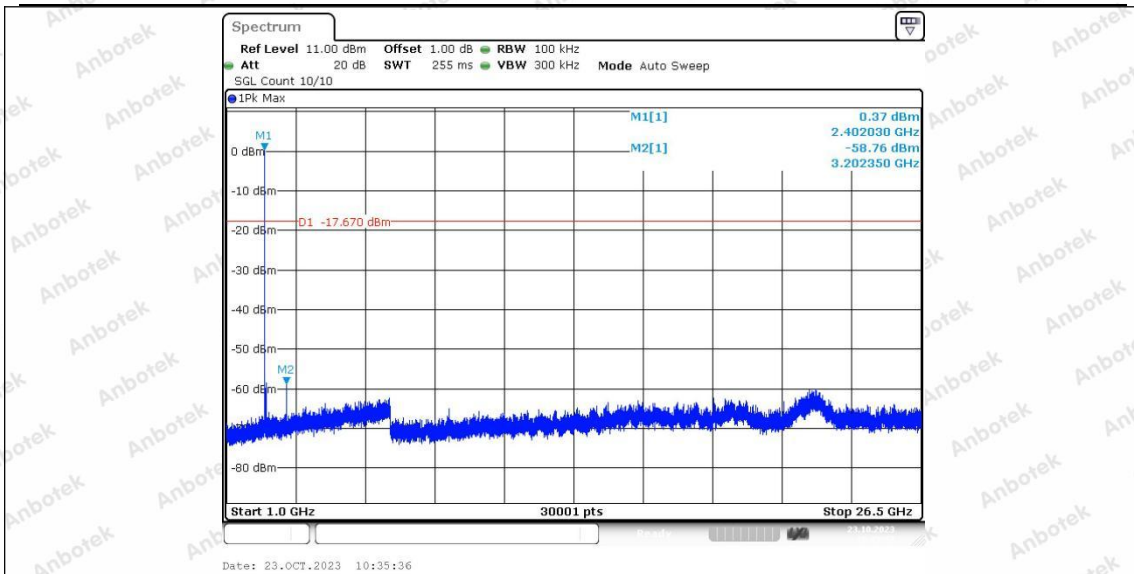


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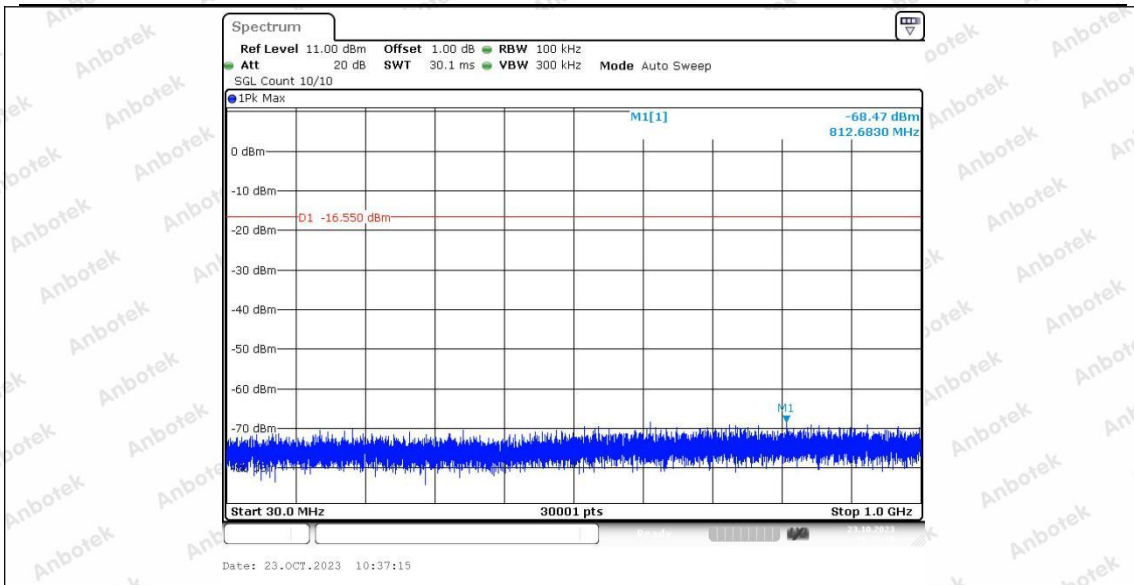


BLE\_1M\_Ant1\_2440\_0~Reference

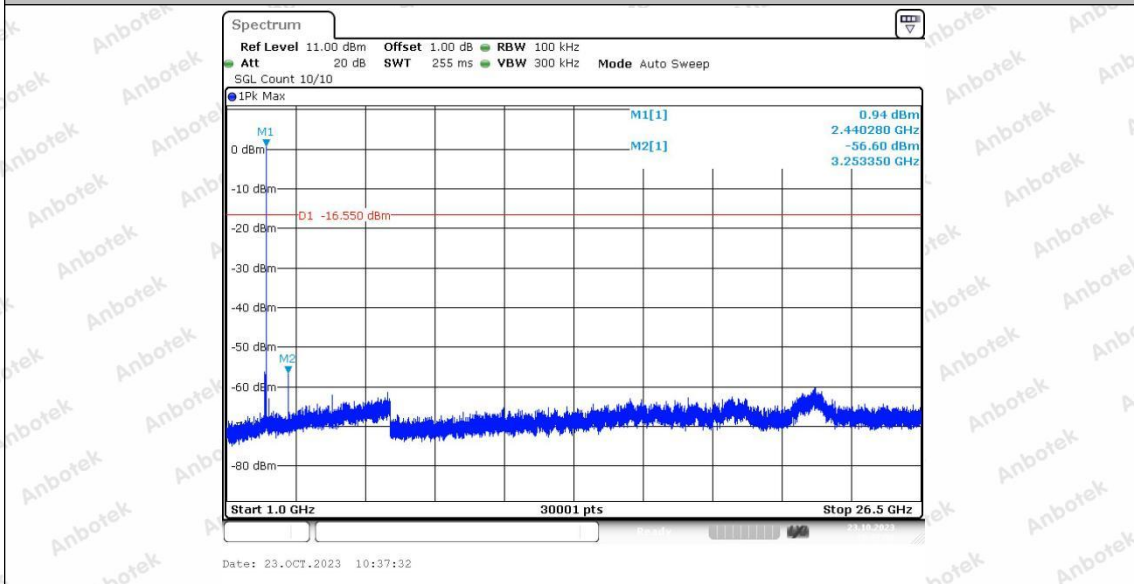


BLE\_1M\_Ant1\_2440\_30~1000





BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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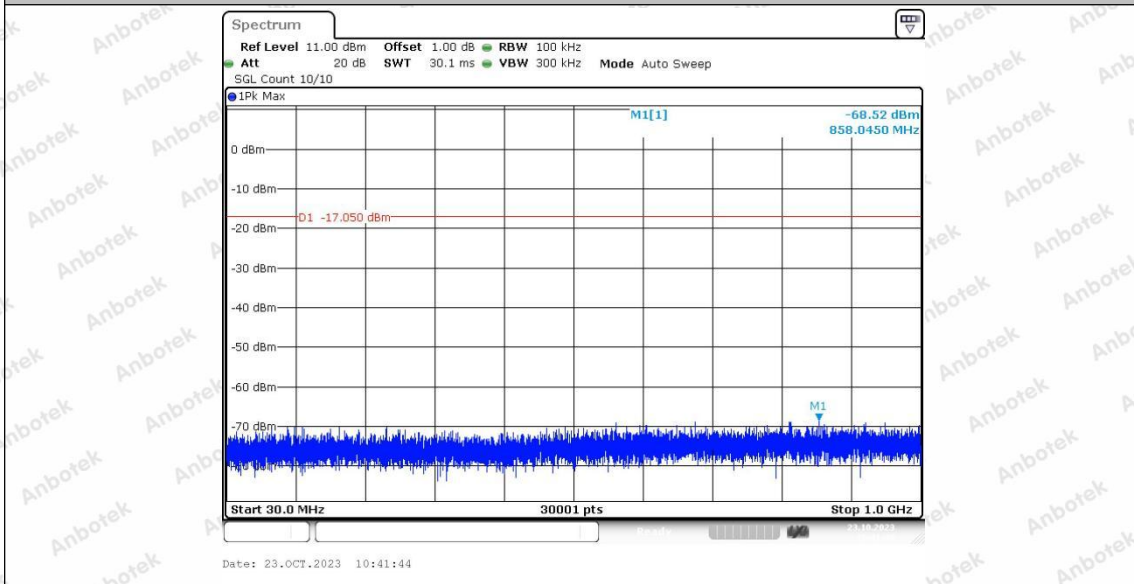
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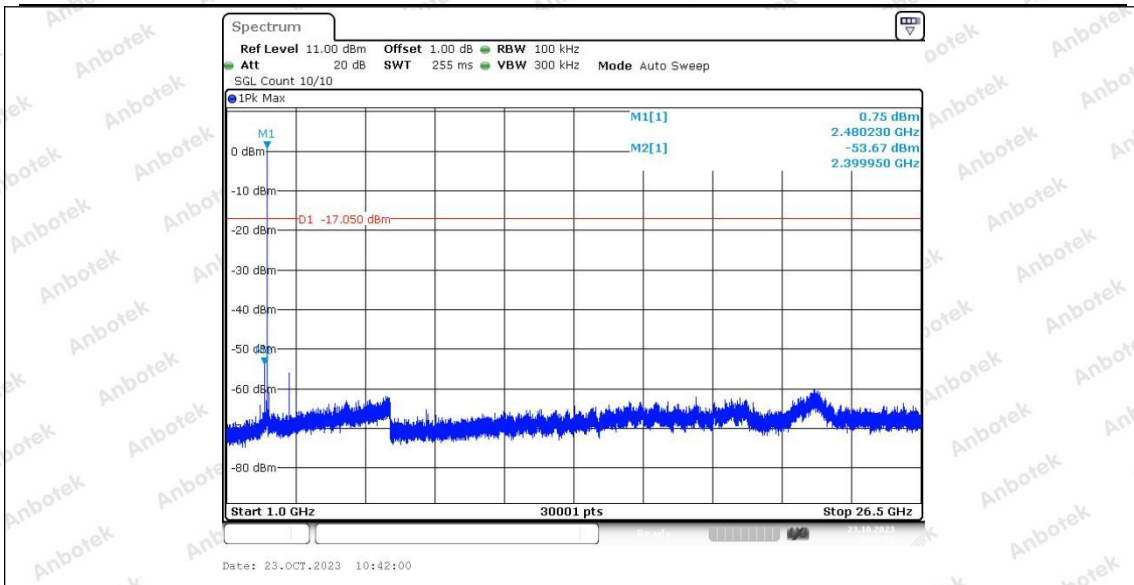
BLE\_1M\_Ant1\_2480\_30~1000



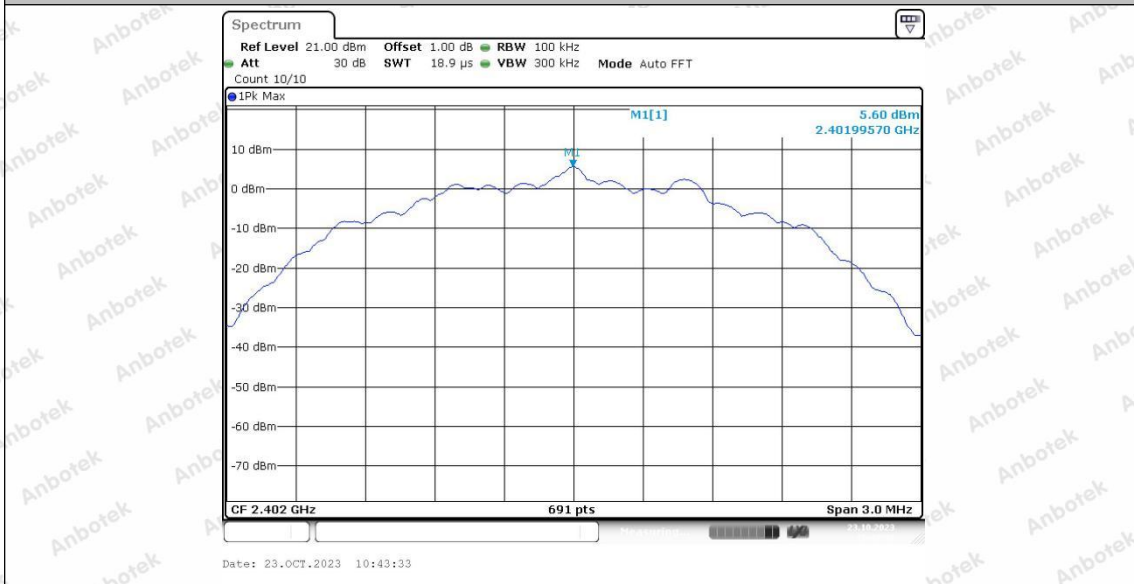
BLE\_1M\_Ant1\_2480\_1000~26500







BLE\_2M\_Ant1\_2402\_0~Reference



BLE\_2M\_Ant1\_2402\_30~1000

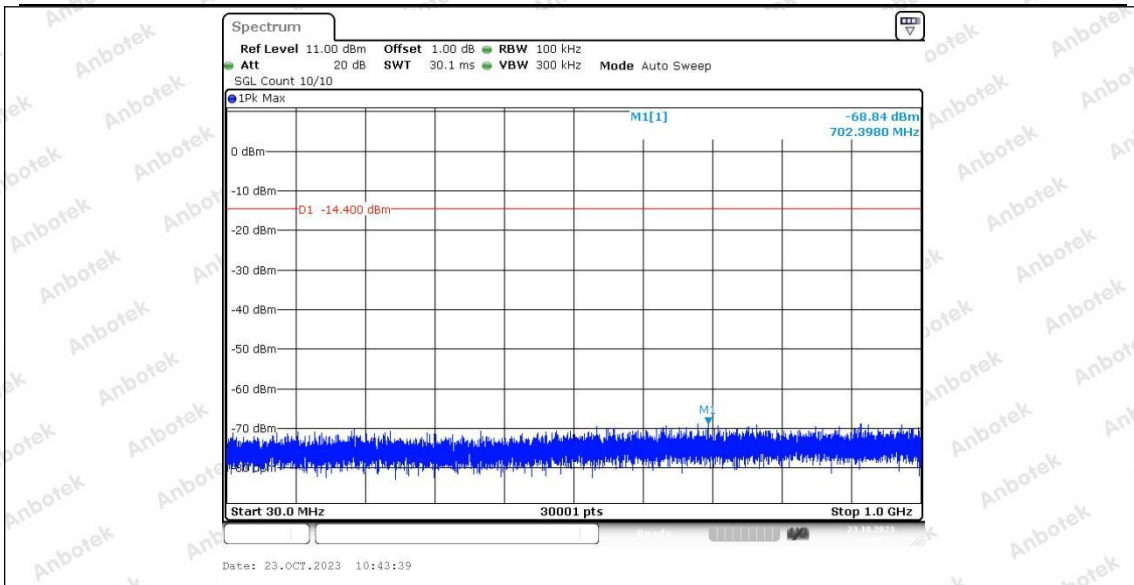
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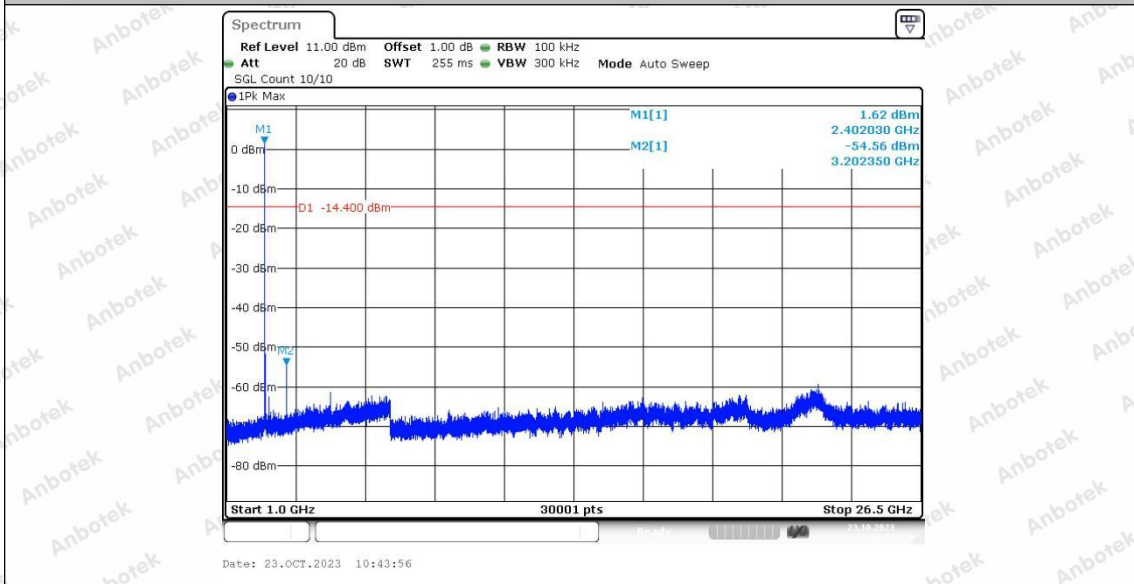


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BLE\_2M\_Ant1\_2402\_1000~26500



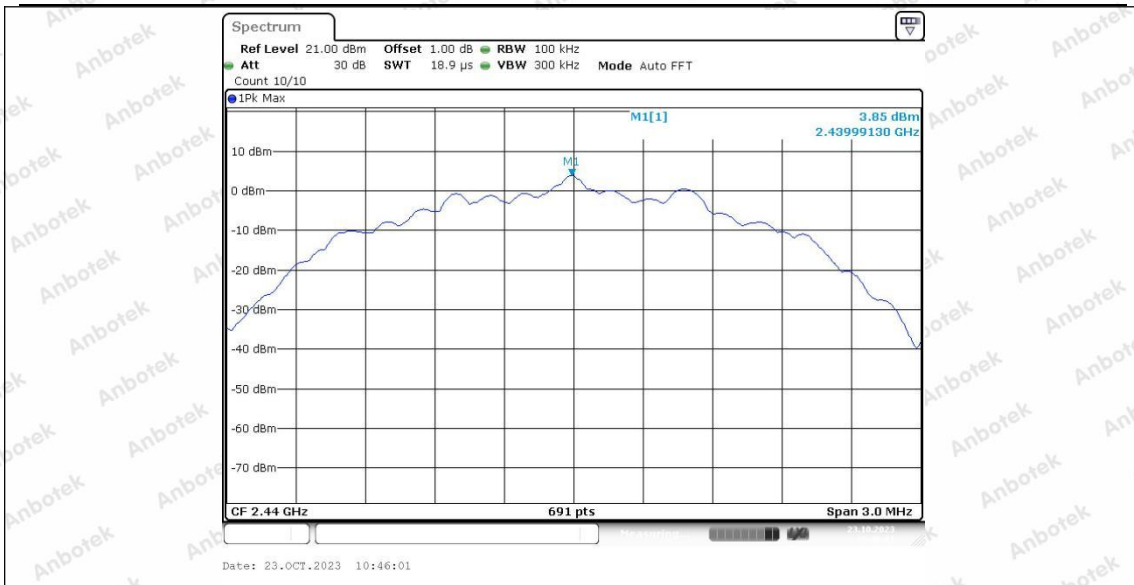
BLE\_2M\_Ant1\_2440\_0~Reference

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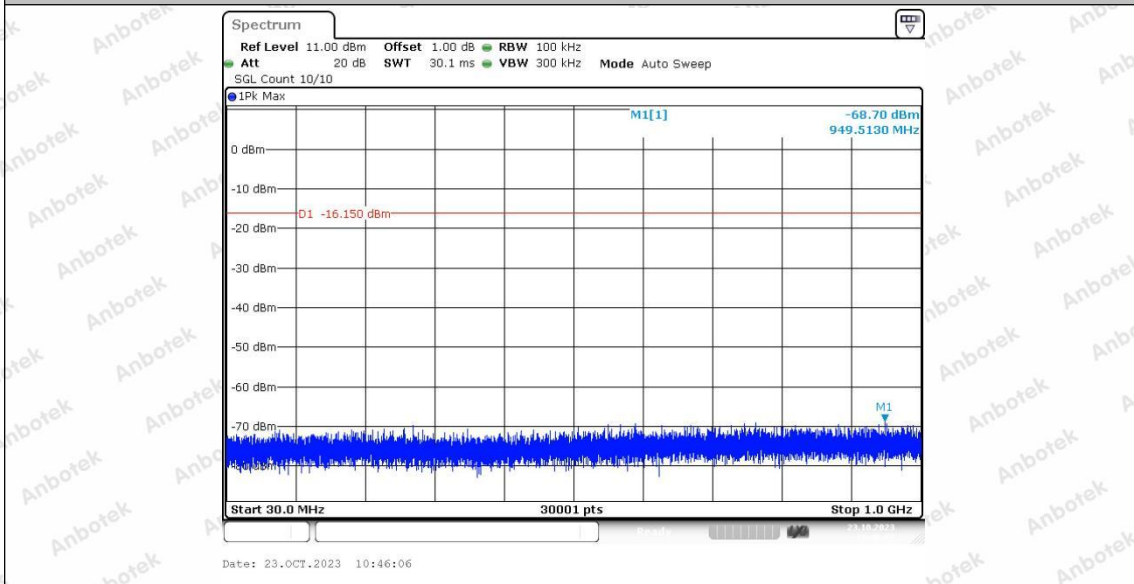
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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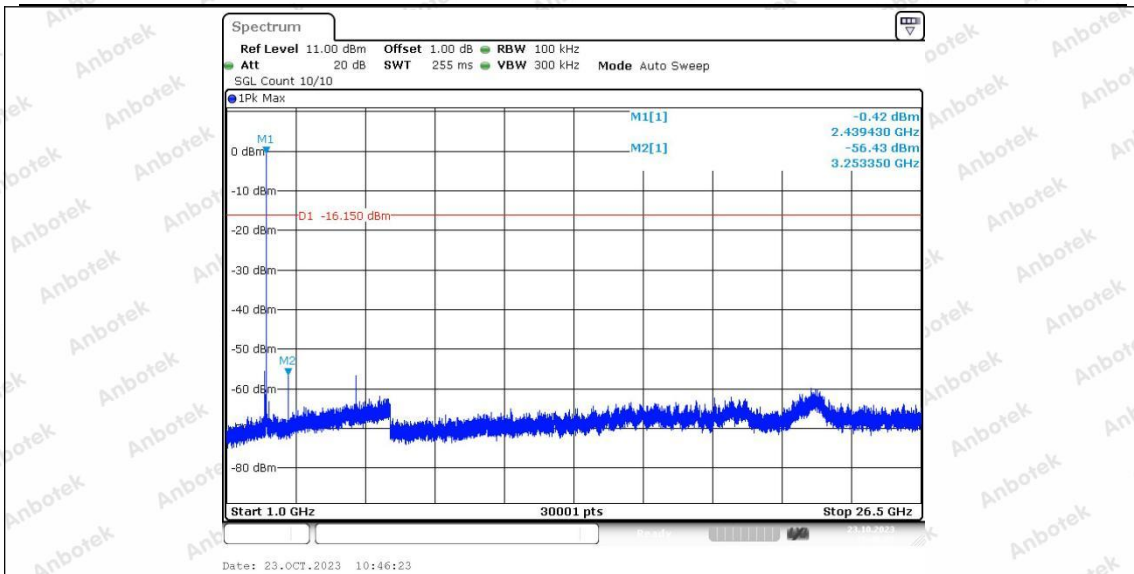


BLE\_2M\_Ant1\_2440\_30~1000



BLE\_2M\_Ant1\_2440\_1000~26500





BLE\_2M\_Ant1\_2480\_0~Reference



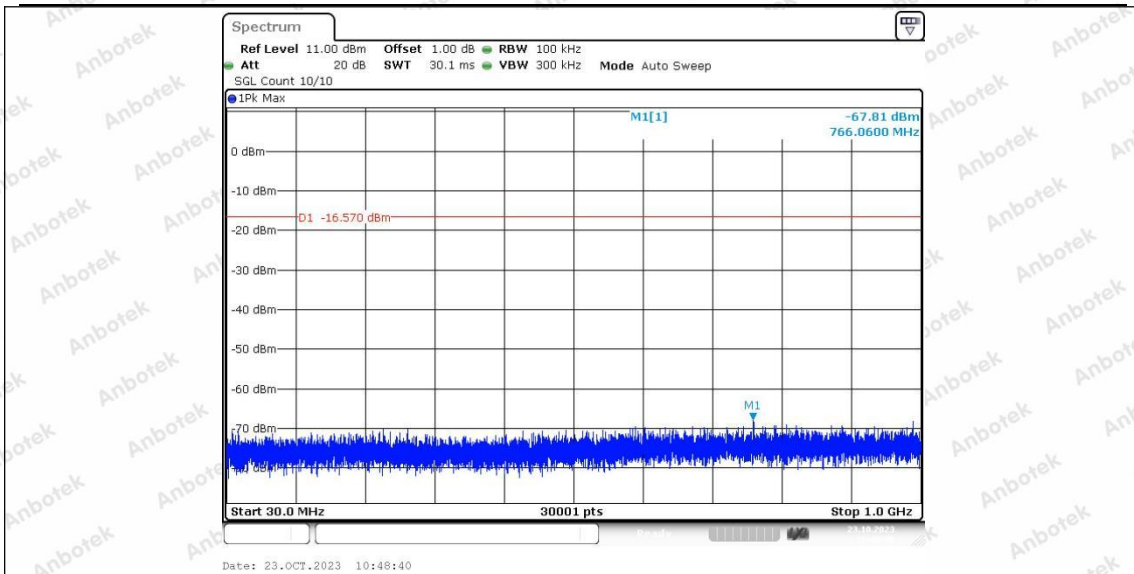
BLE\_2M\_Ant1\_2480\_30~1000

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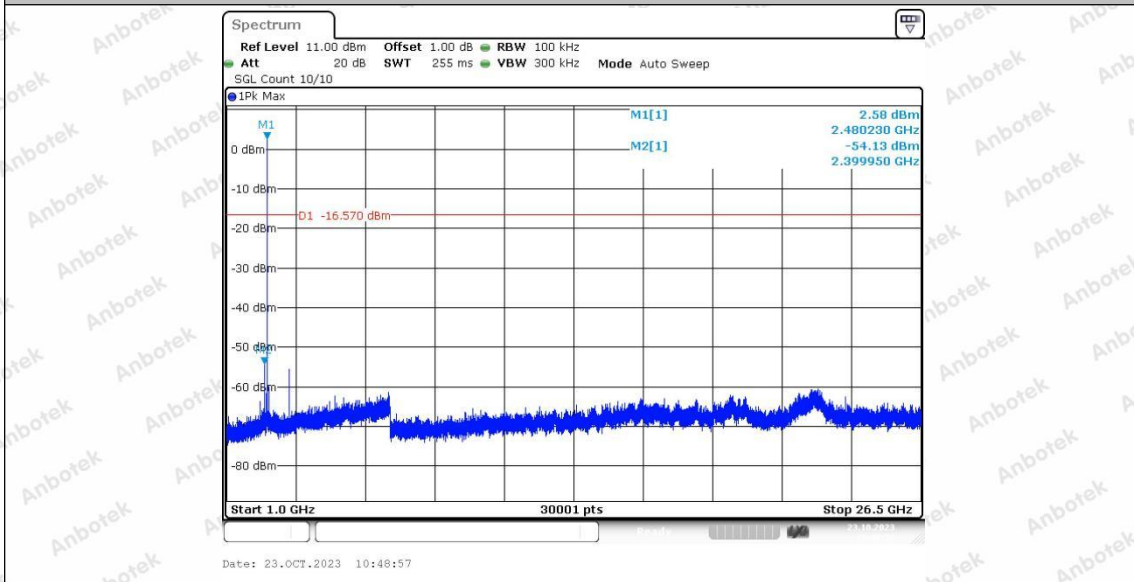
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BLE\_2M\_Ant1\_2480\_1000~26500



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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	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
		2440	1.07	1.88	56.91	2.45
		2480	1.07	1.88	56.91	2.45

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## Test Graphs

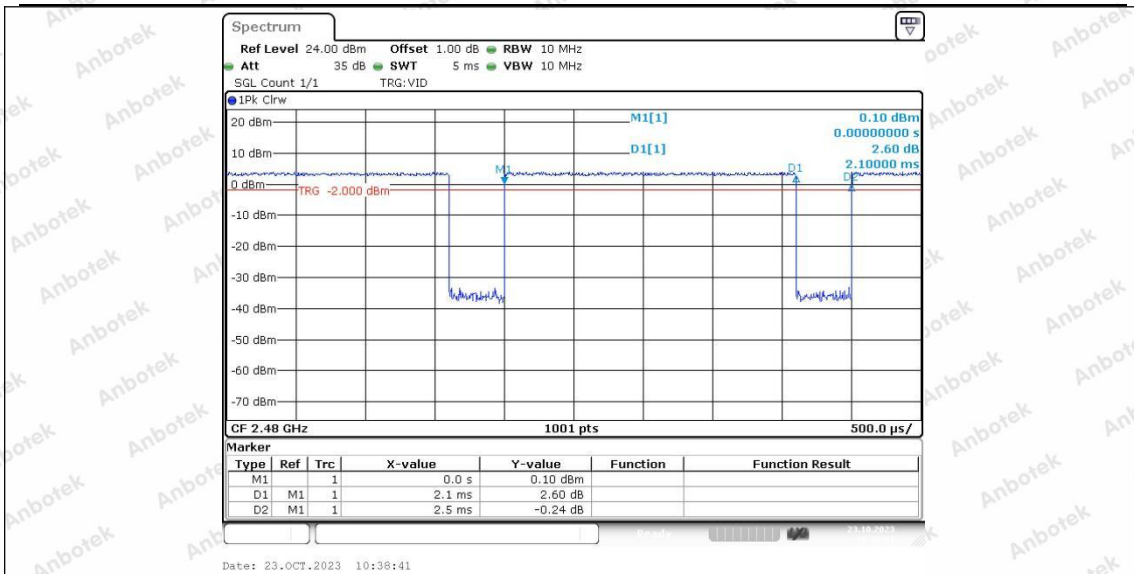


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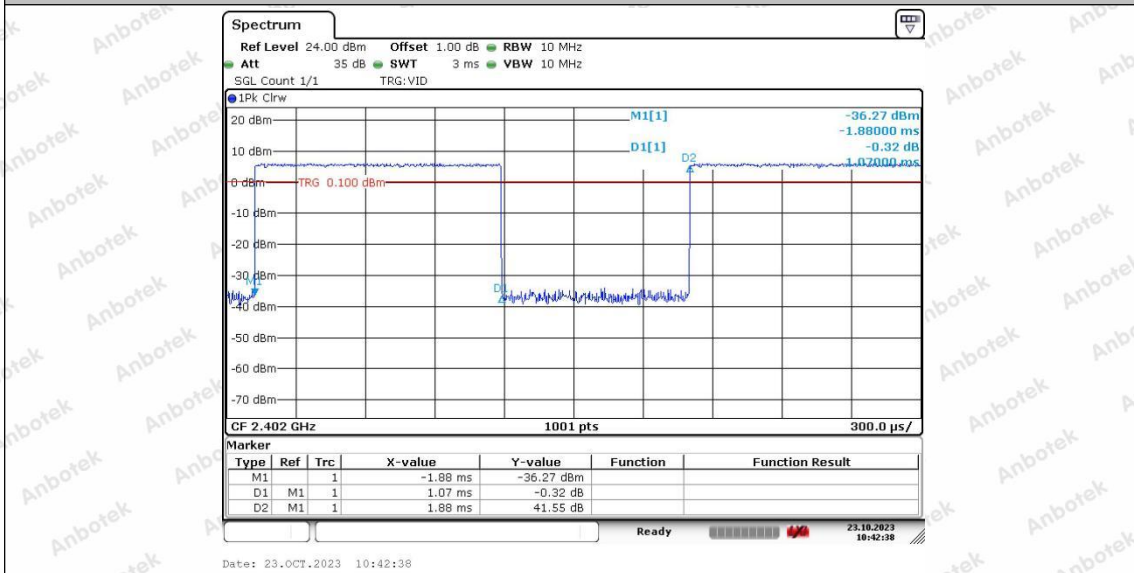
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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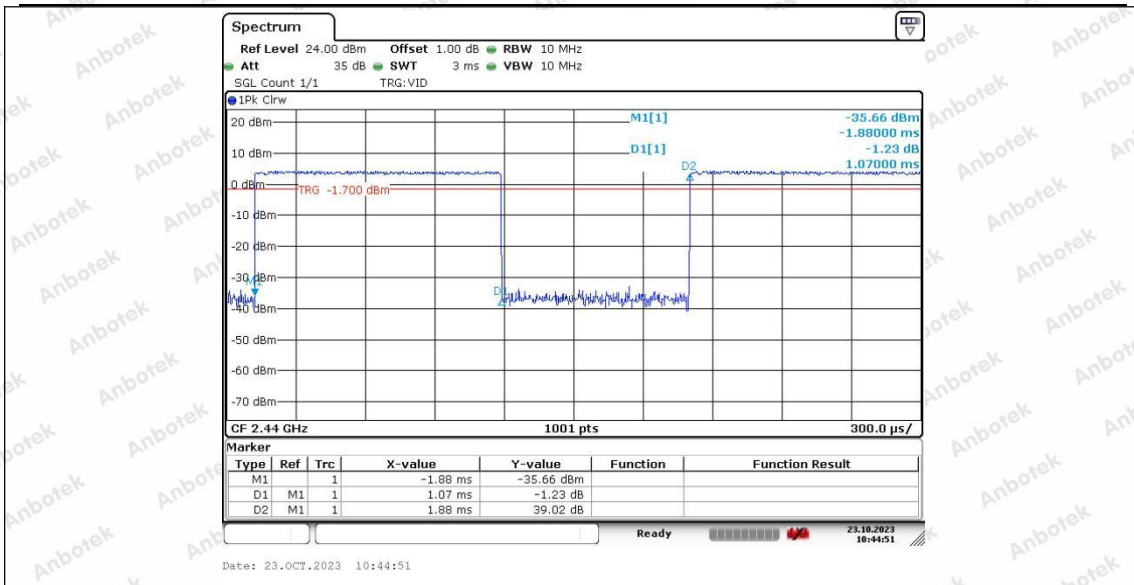
BLE\_2M\_Ant1\_2402



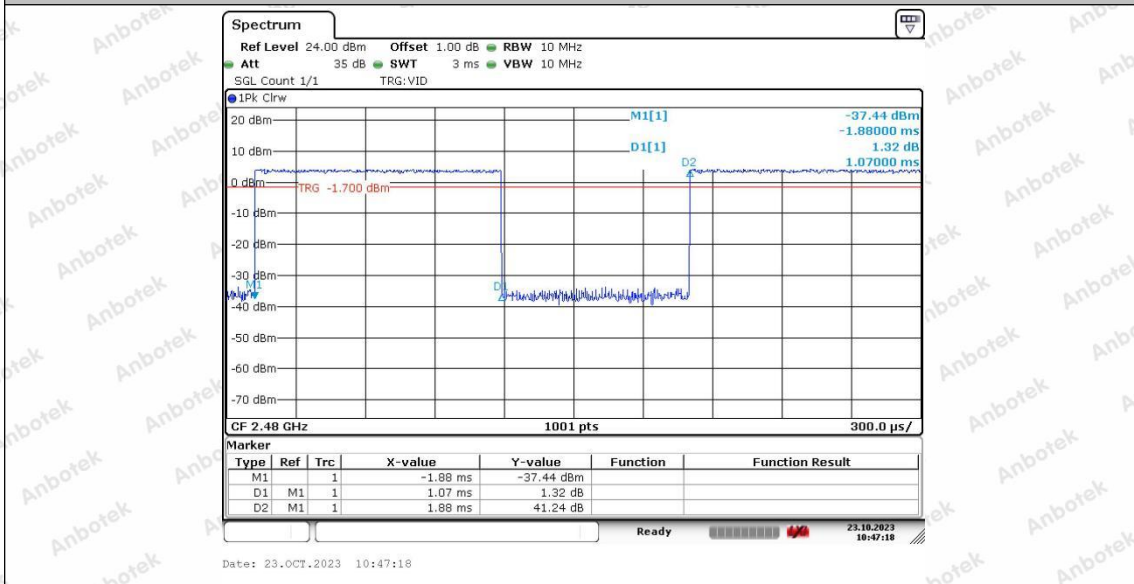
BLE\_2M\_Ant1\_2440







## BLE\_2M\_Ant1\_2480



---End---

