

Appendix Test Data

Report No.:	18360WC30014301	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:	25.1°C	Relative Humidity:	48.6%
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	0.64	2401.67	2402.30	0.5	PASS
		2440	0.64	2439.66	2440.30	0.5	PASS
		2480	0.67	2479.64	2480.32	0.5	PASS
BLE_2M	Ant1	2402	0.88	2401.45	2402.33	0.5	PASS
		2440	1.15	2439.42	2440.58	0.5	PASS
		2480	1.07	2479.46	2480.53	0.5	PASS

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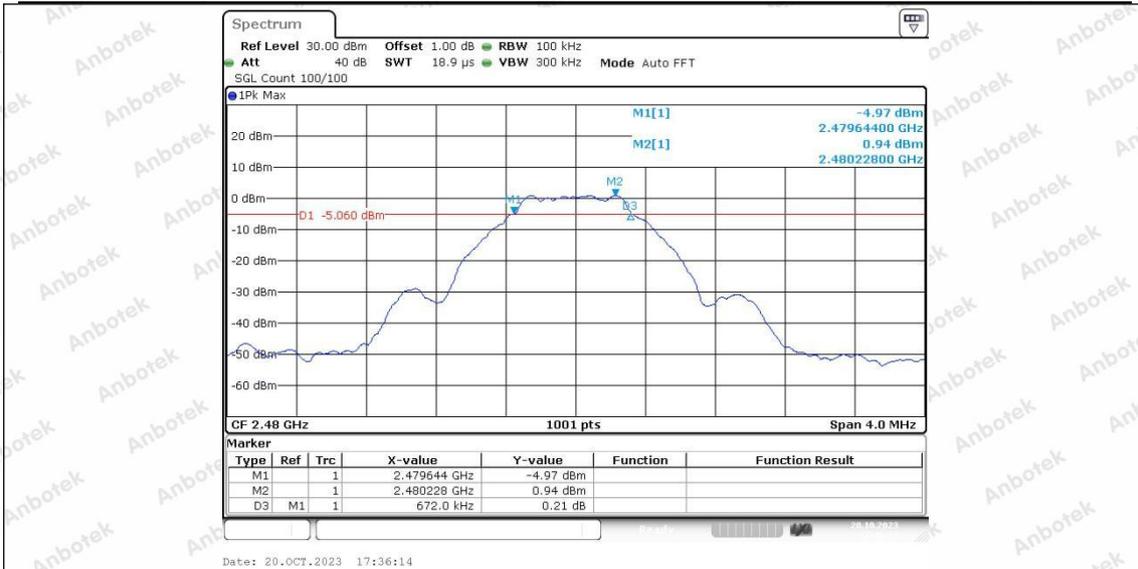


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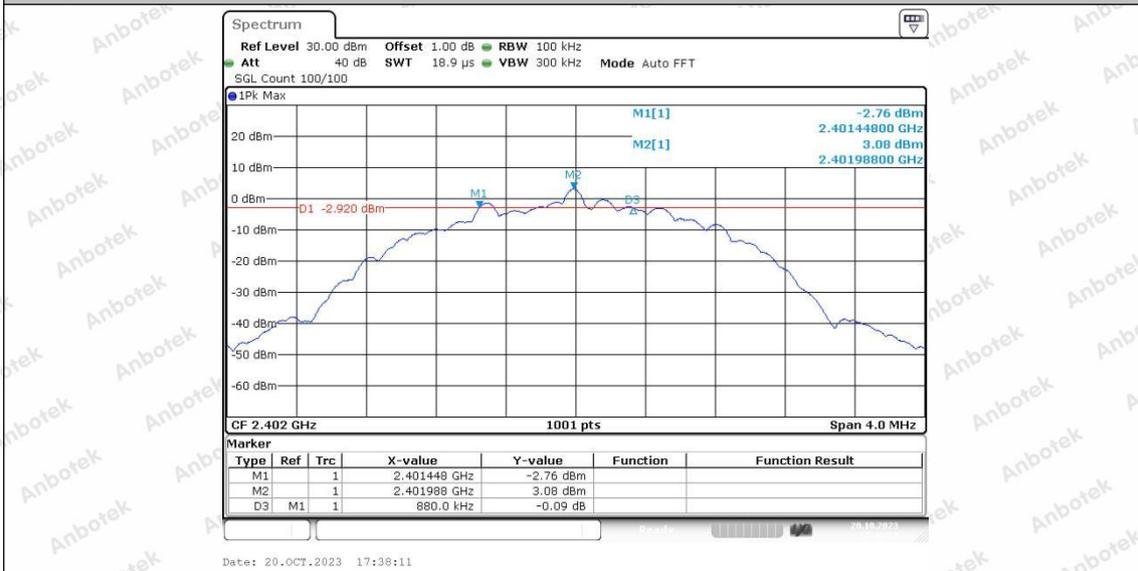


Test Graphs



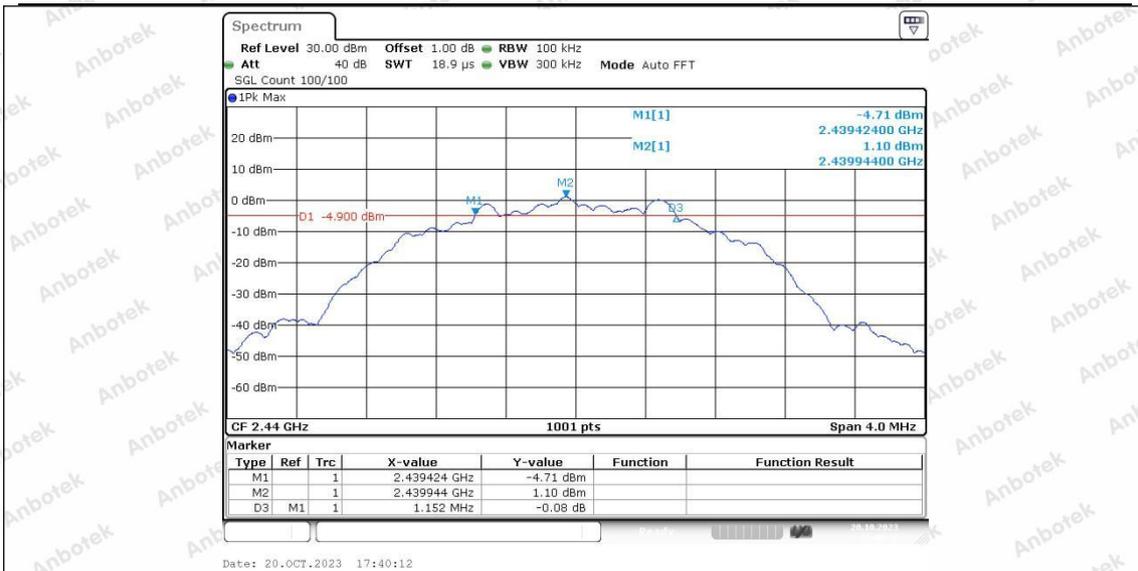


BLE_2M_Ant1_2402

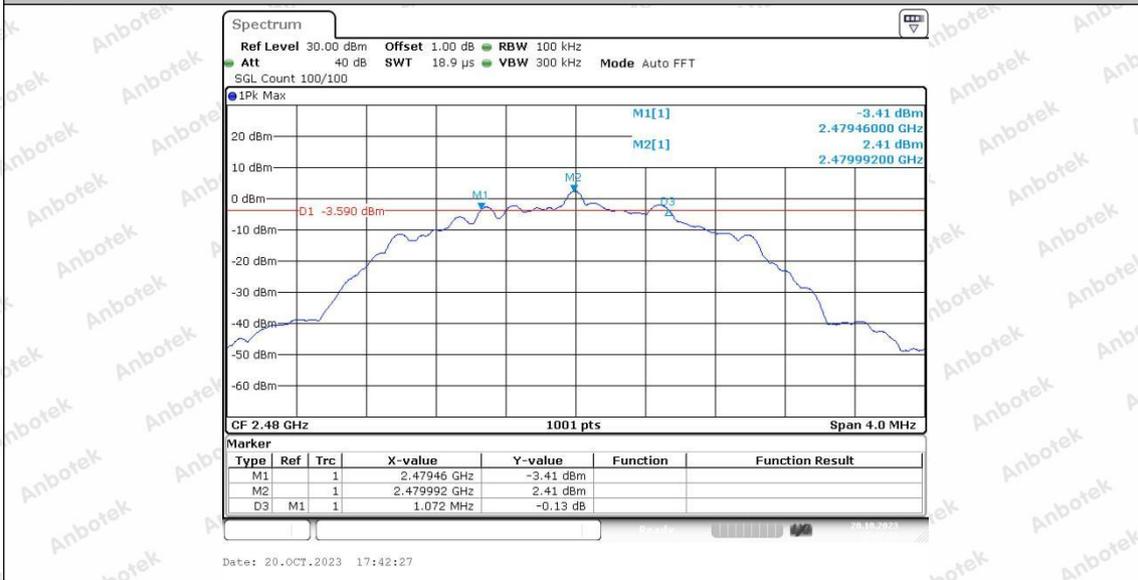


BLE_2M_Ant1_2440





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	1.019	2401.4765	2402.4955
		2440	1.011	2439.4765	2440.4875
		2480	1.019	2479.4765	2480.4955
BLE_2M	Ant1	2402	2.042	2400.9690	2403.0110
		2440	2.01	2438.9890	2440.9990
		2480	2.034	2478.9810	2481.0150

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Test Graphs

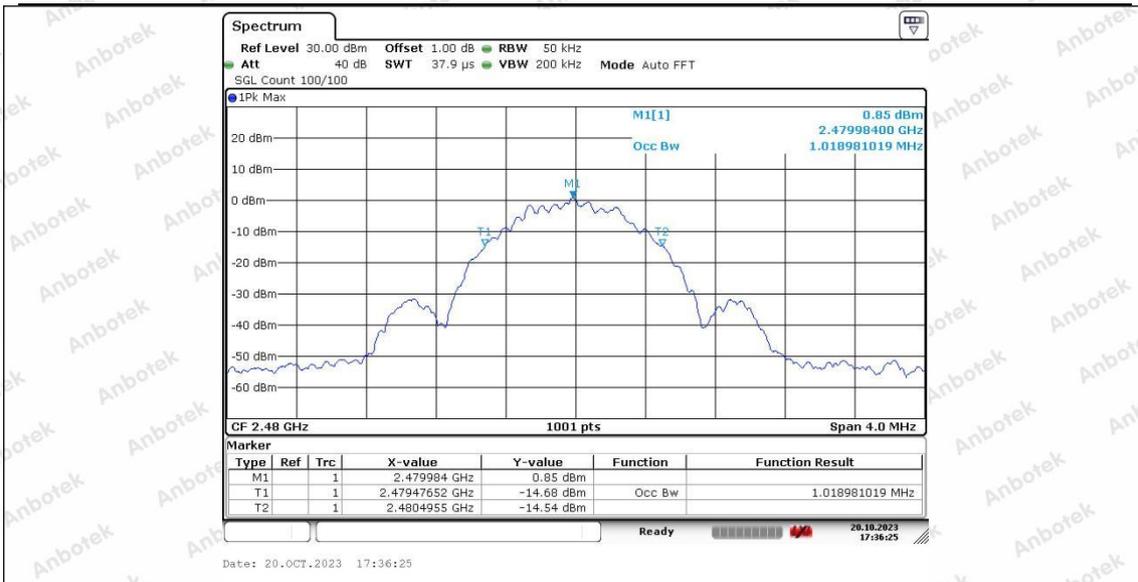


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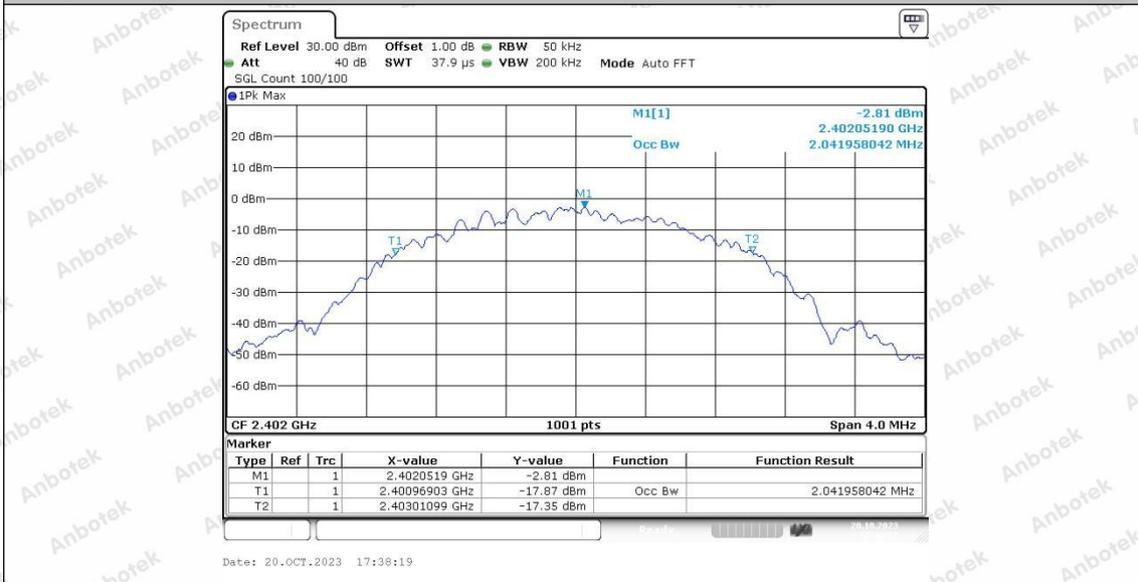
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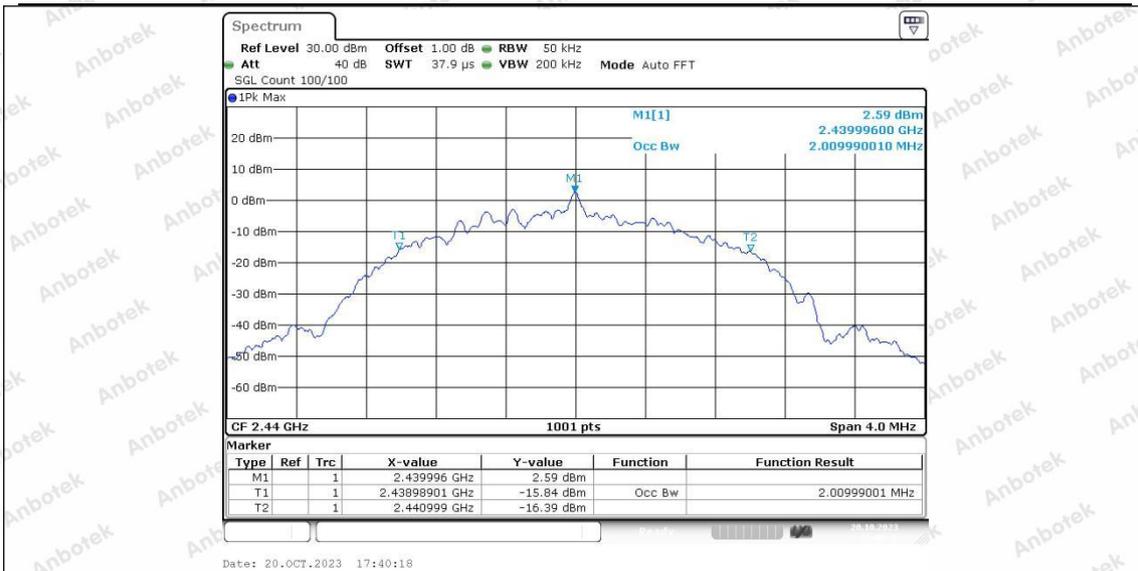


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.89	≤30	PASS
		2440	4.33	≤30	PASS
		2480	3.90	≤30	PASS
BLE_2M	Ant1	2402	3.93	≤30	PASS
		2440	4.33	≤30	PASS
		2480	4.08	≤30	PASS

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Test Graphs Peak

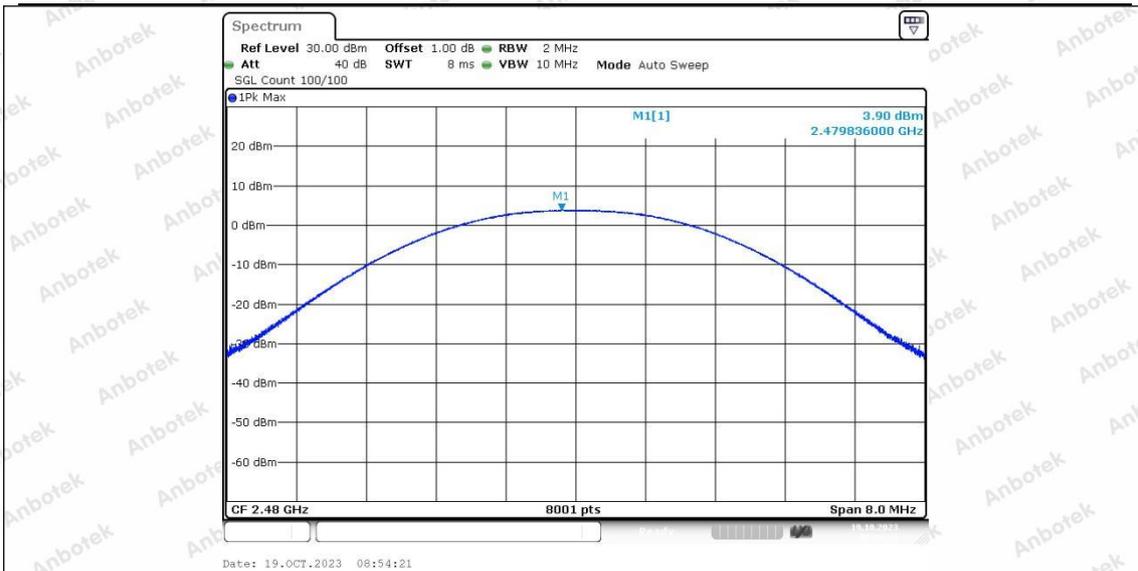


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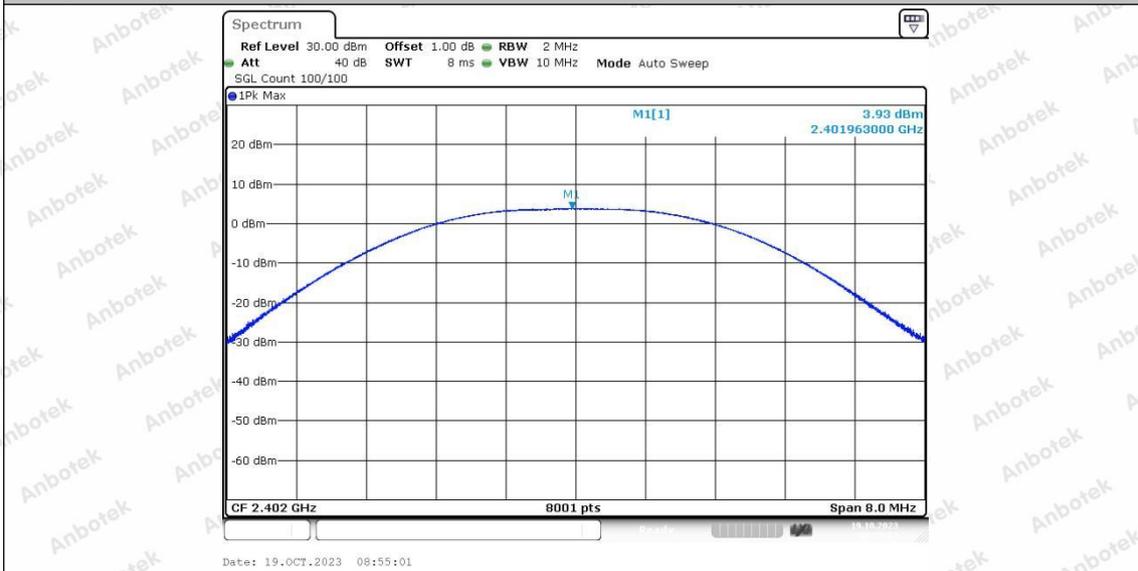
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

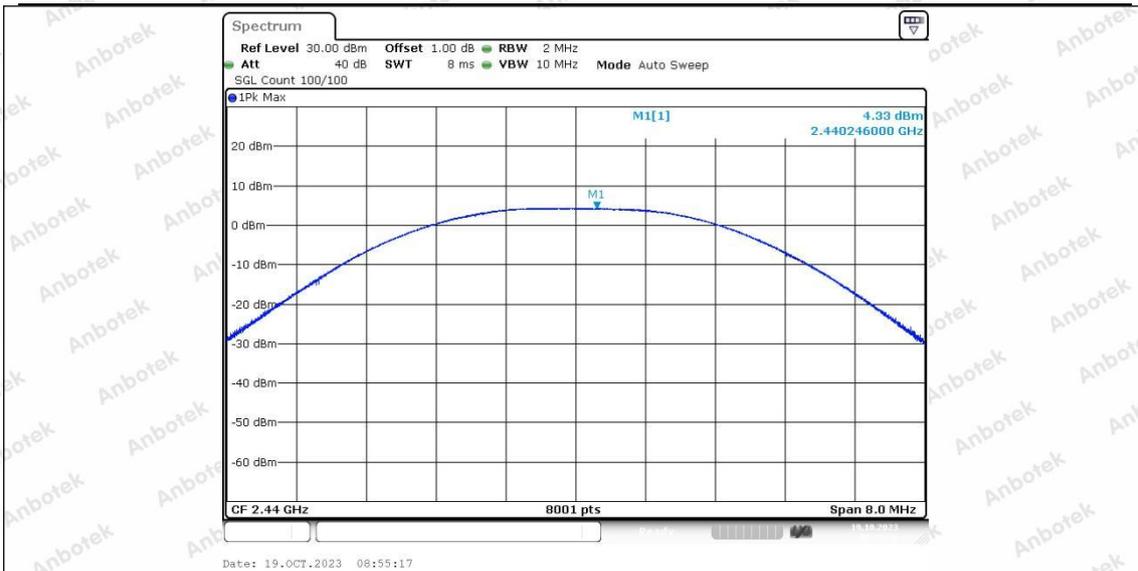
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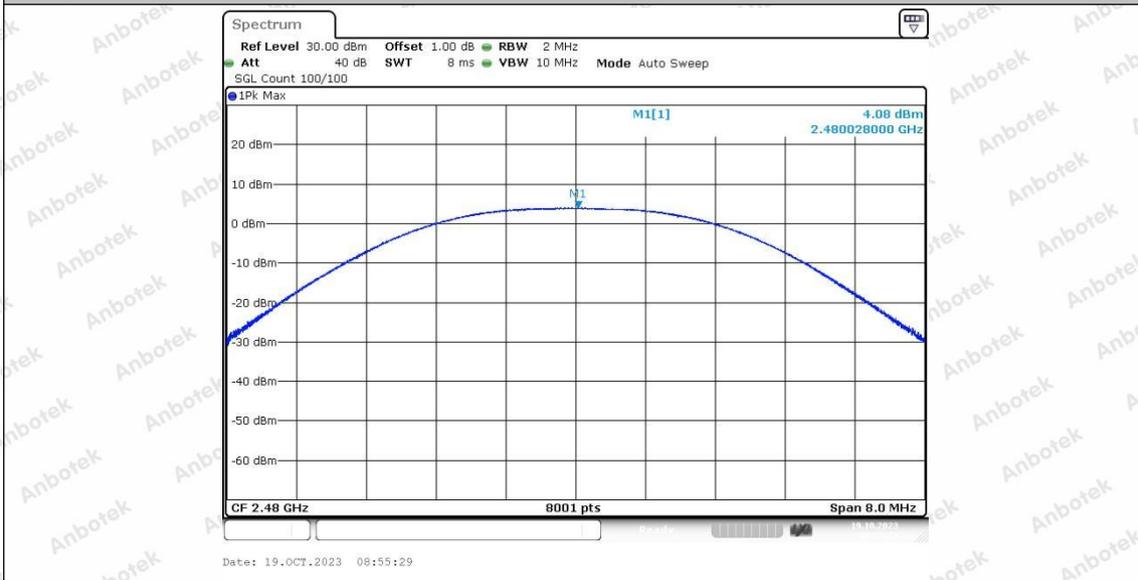


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BLE_2M_Ant1_2480



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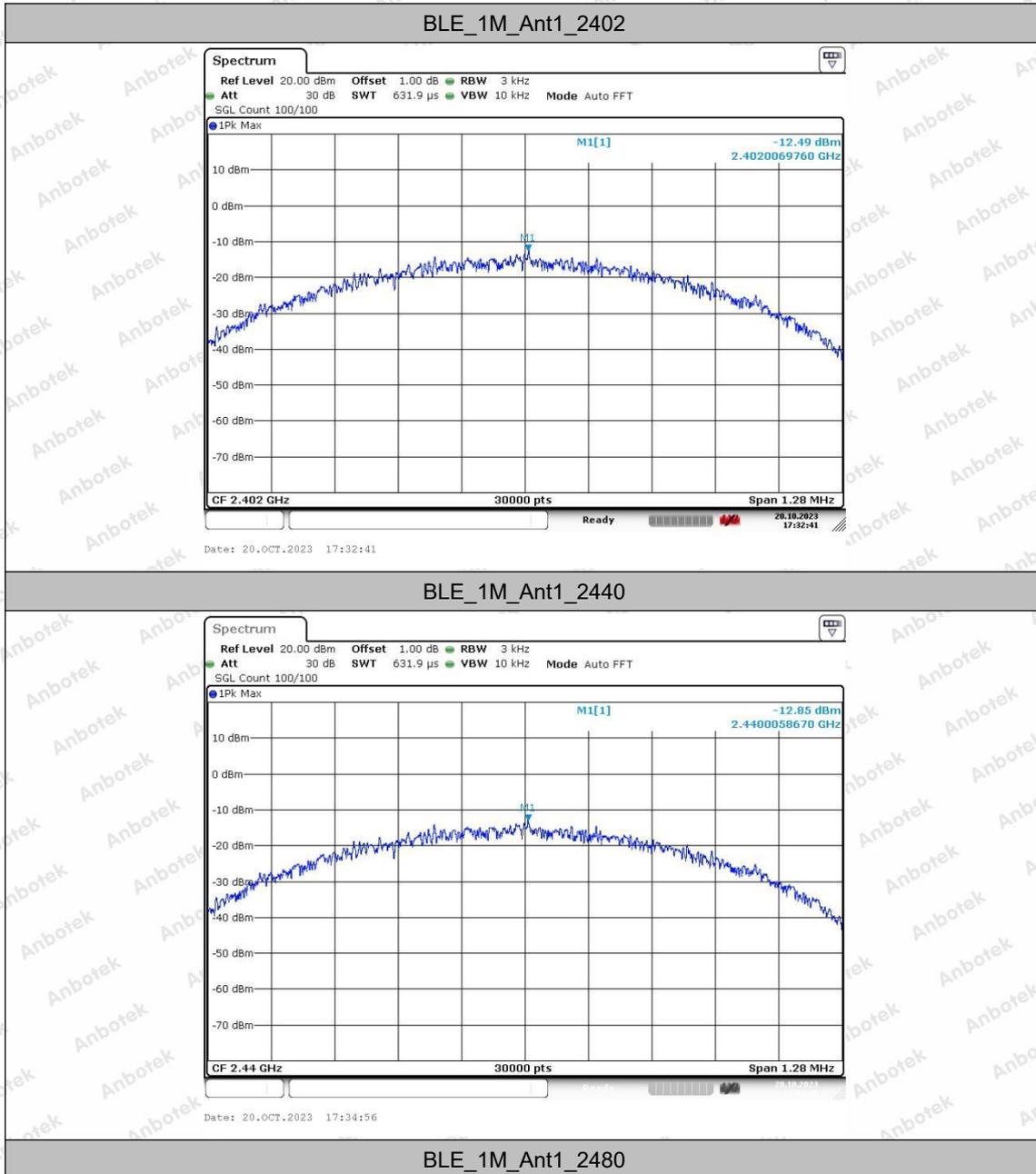
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.49	≤8.00	PASS
		2440	-12.85	≤8.00	PASS
		2480	-12.74	≤8.00	PASS
BLE_2M	Ant1	2402	-14.34	≤8.00	PASS
		2440	-14.32	≤8.00	PASS
		2480	-14.39	≤8.00	PASS



Test Graphs

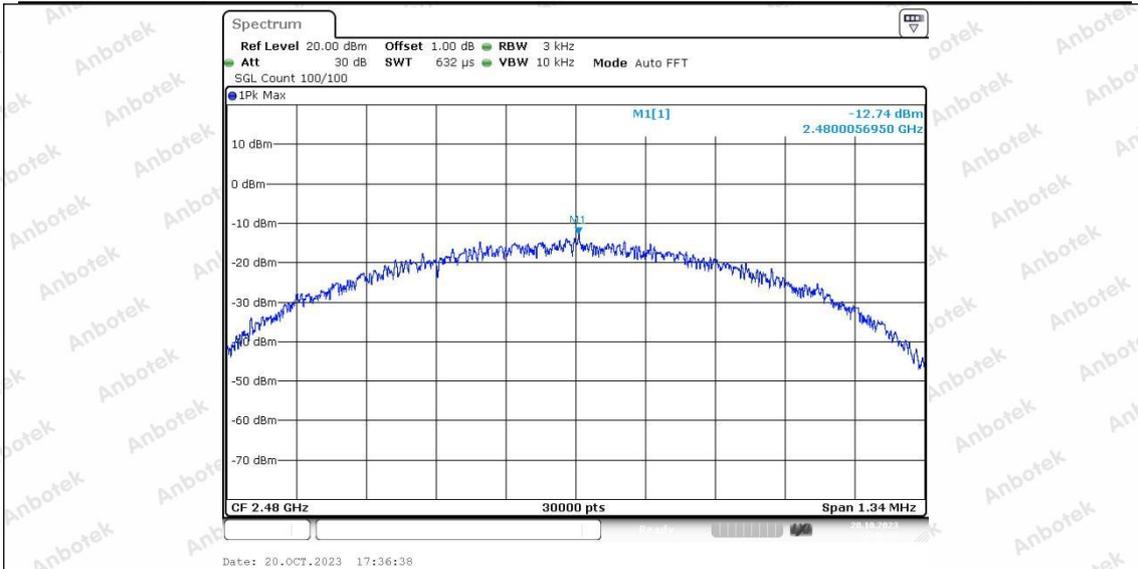


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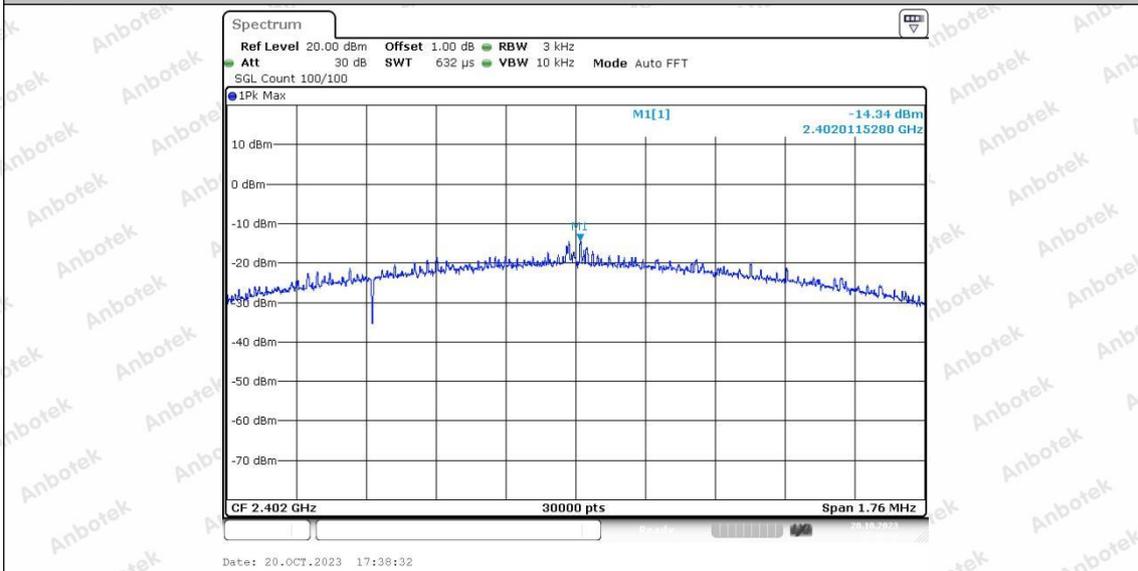
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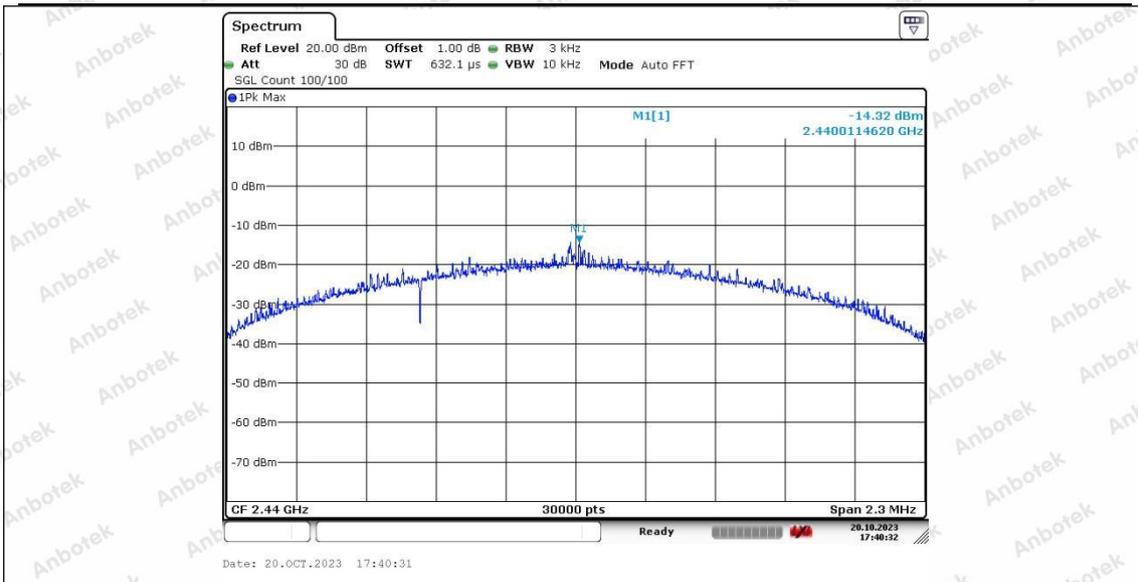


BLE_2M_Ant1_2402

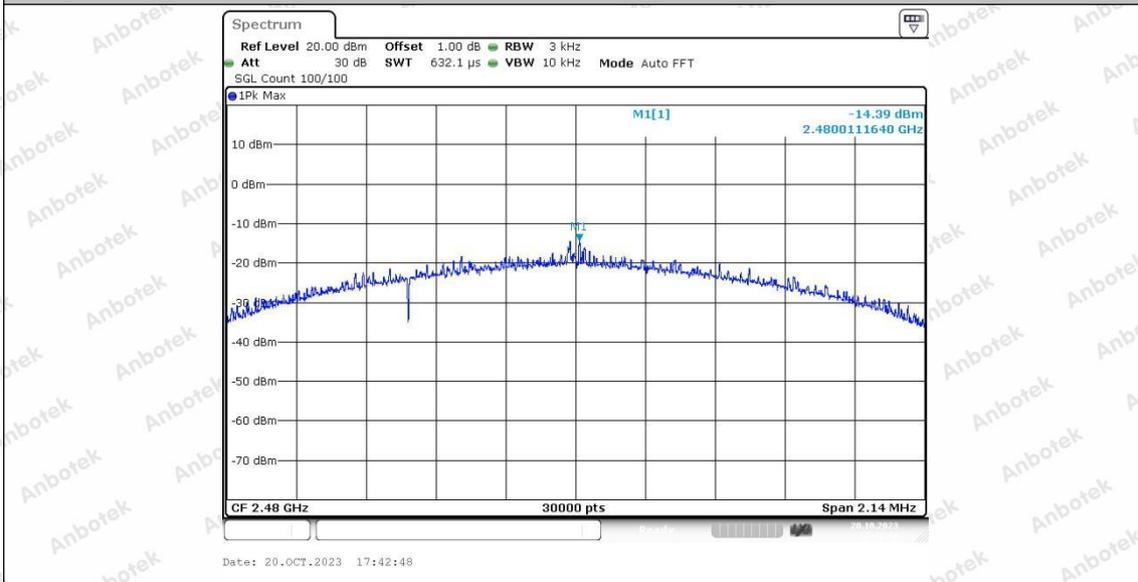


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix E: Band edge measurements

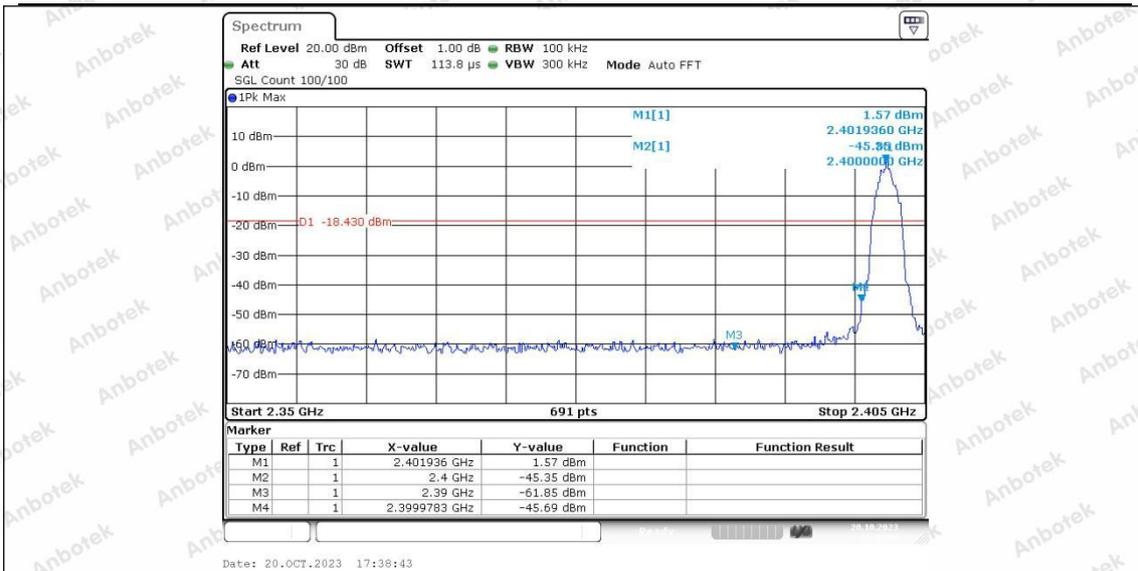
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.84	-52.33	≤-17.16	PASS
		High	2480	1.51	-55.91	≤-18.49	PASS
BLE_2M	Ant1	Low	2402	1.57	-45.69	≤-18.43	PASS
		High	2480	-0.52	-56.59	≤-20.52	PASS

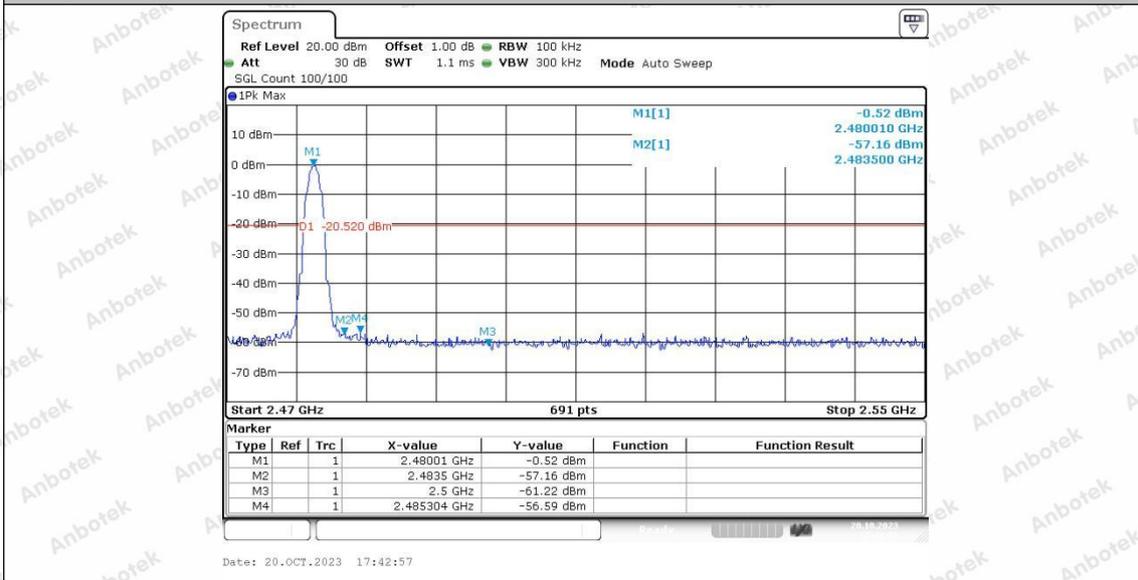


Test Graphs





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	1.27	1.27	---	PASS
			30~1000	1.27	-69.11	≤-18.73	PASS
			1000~26500	1.27	-54.73	≤-18.73	PASS
		2440	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.54	≤-20.41	PASS
			1000~26500	-0.41	-57.07	≤-20.41	PASS
		2480	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-68.44	≤-20.53	PASS
			1000~26500	-0.53	-57.04	≤-20.53	PASS
BLE_2M	Ant1	2402	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-68.1	≤-20.9	PASS
			1000~26500	-0.90	-54.67	≤-20.9	PASS
		2440	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-68.19	≤-22.27	PASS
			1000~26500	-2.27	-56.65	≤-22.27	PASS
		2480	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-68.34	≤-21.94	PASS
			1000~26500	-1.94	-58	≤-21.94	PASS



Test Graphs

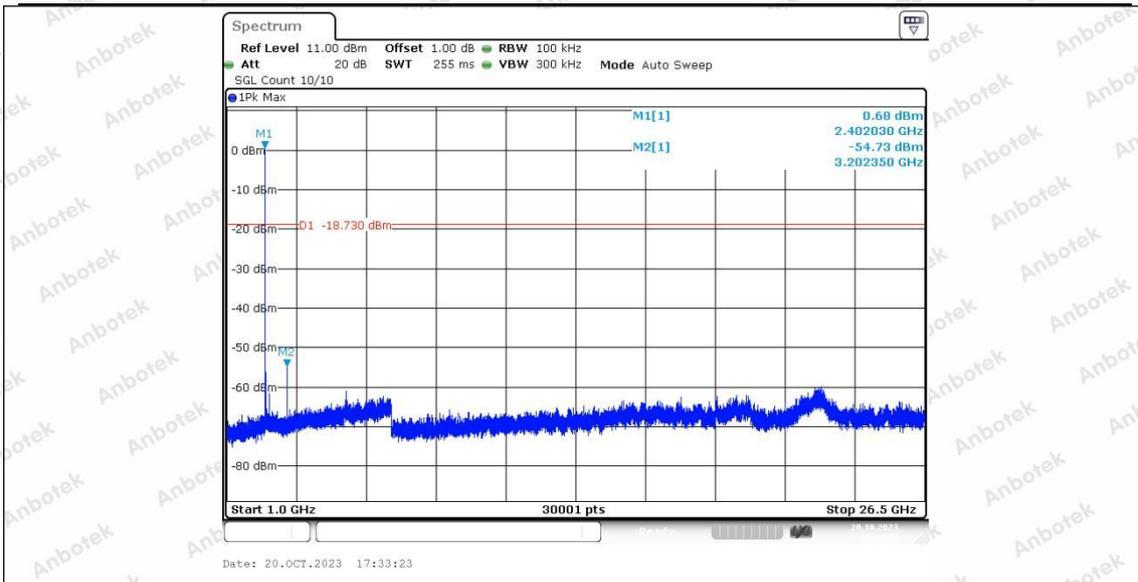


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BLE_1M_Ant1_2440_0~Reference



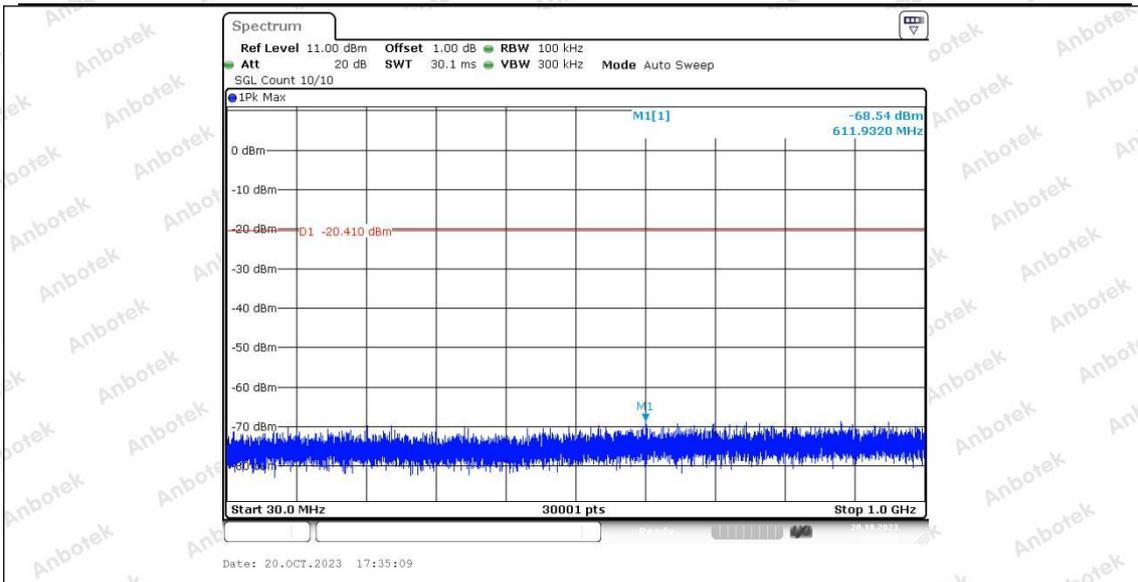
BLE_1M_Ant1_2440_30~1000

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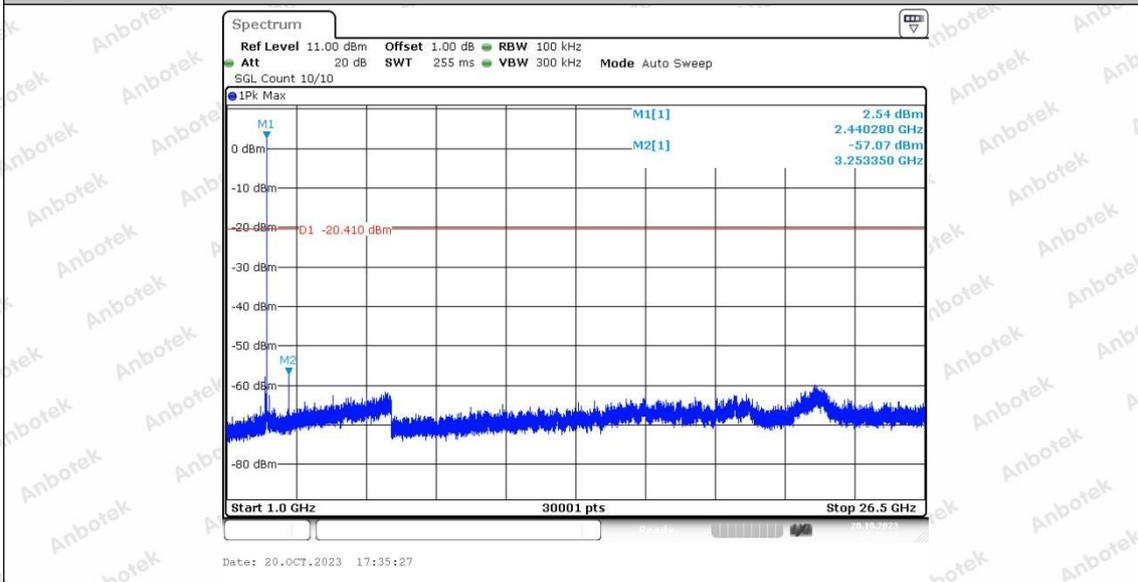
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2440_1000~26500



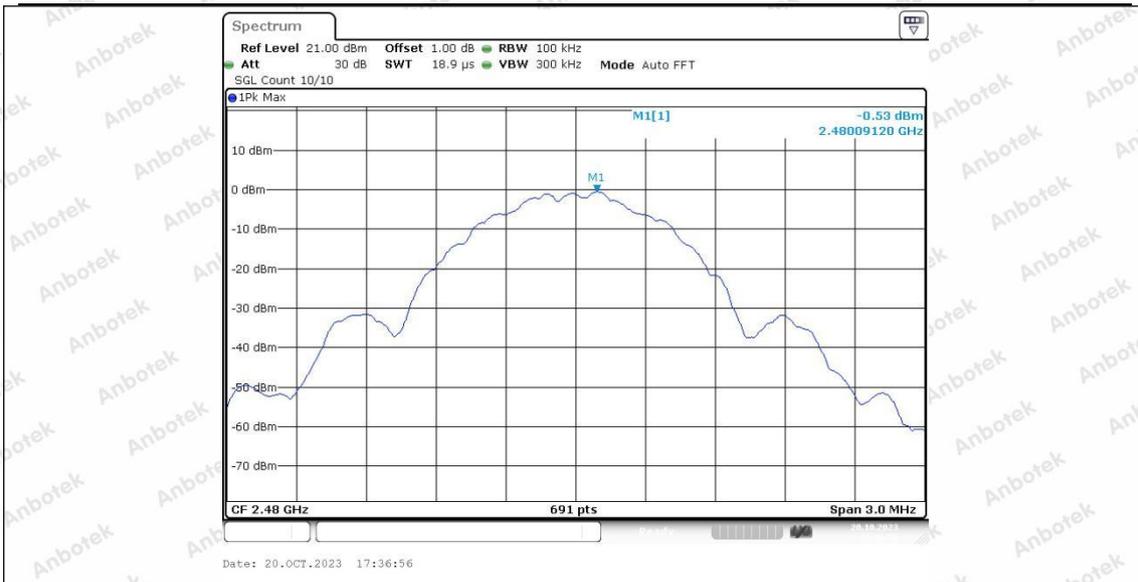
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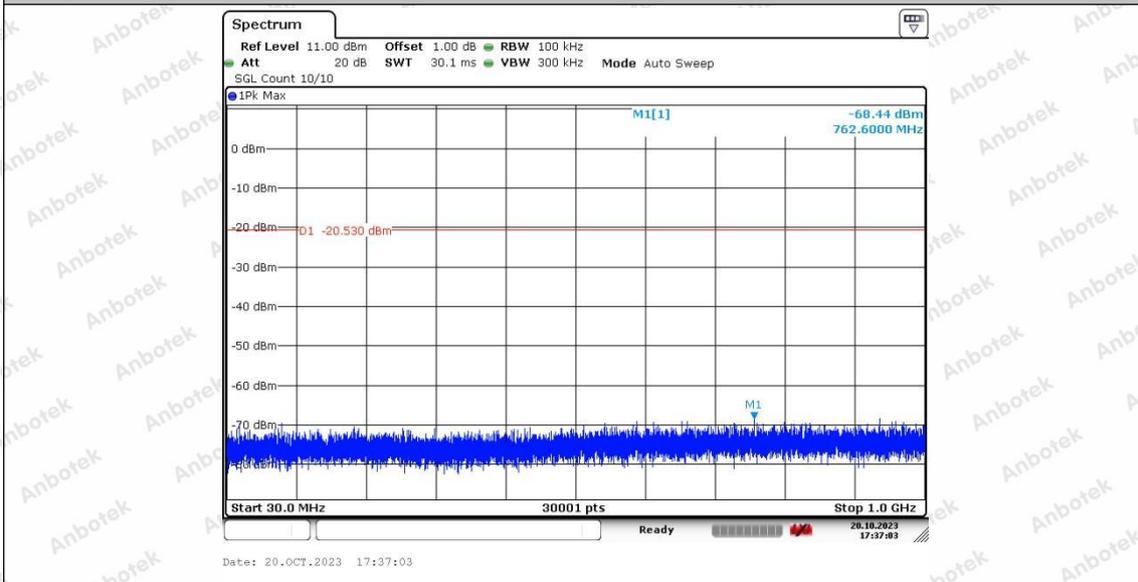
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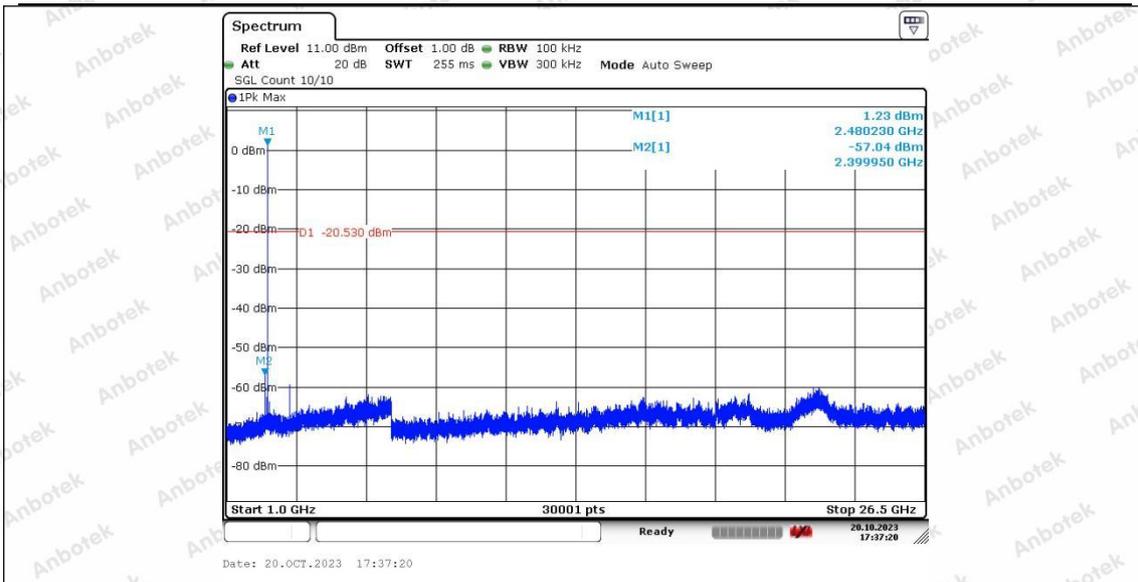


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



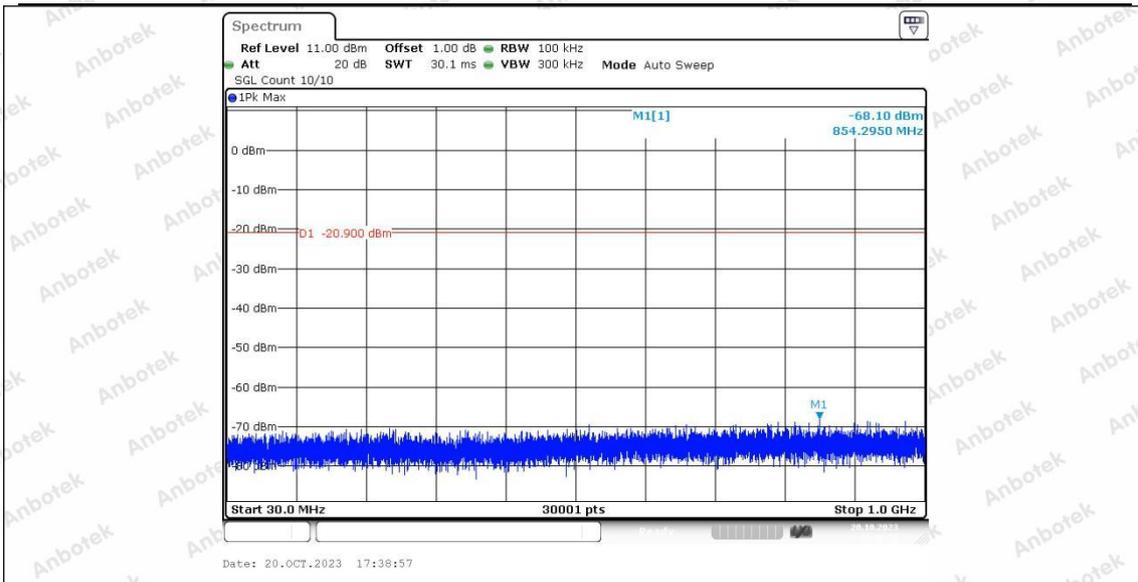


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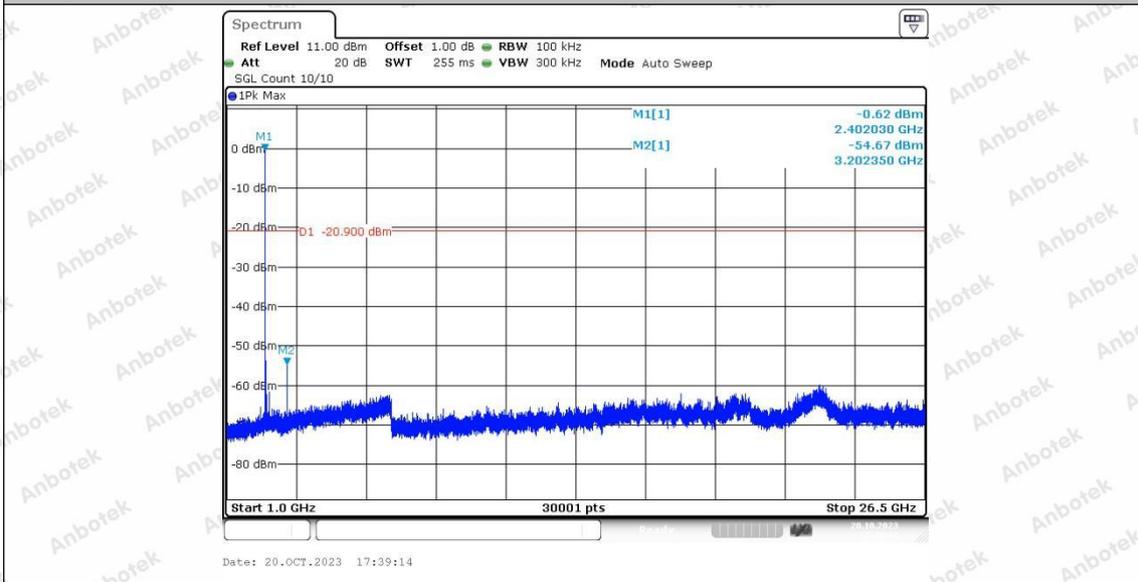


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



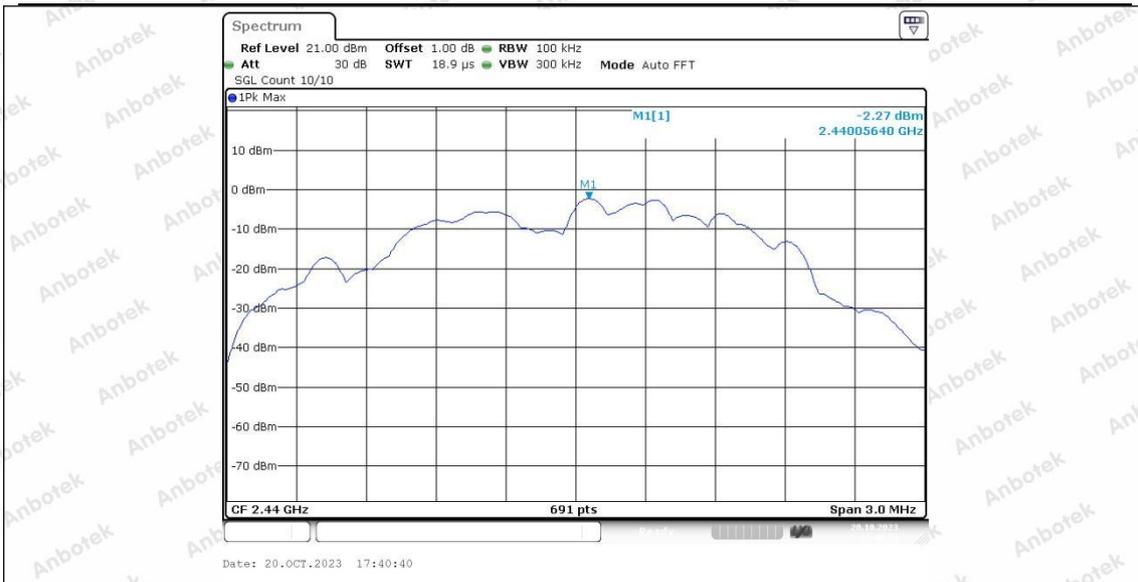
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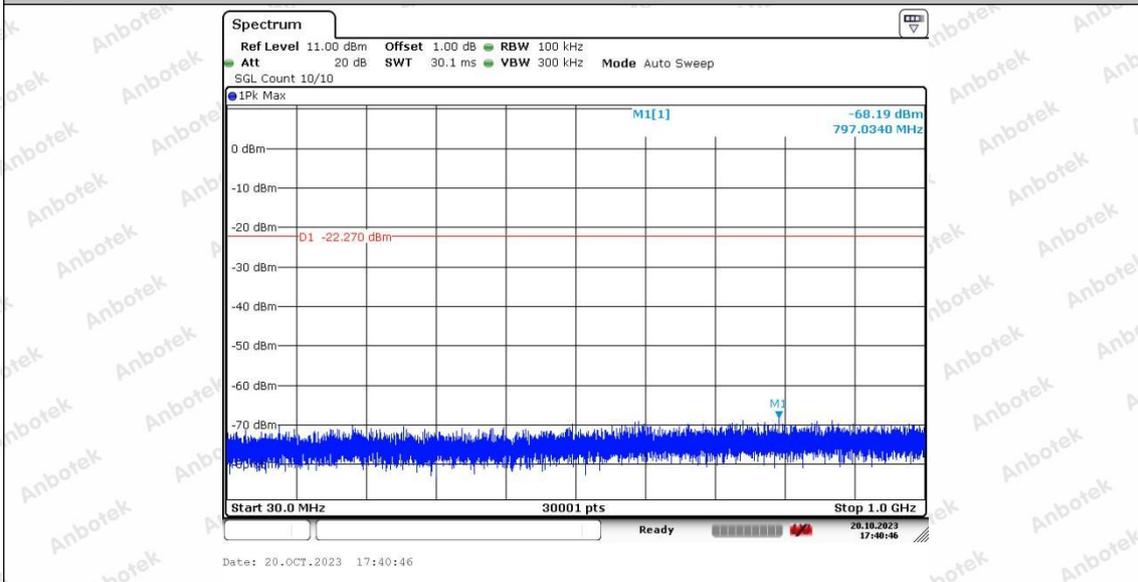
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BLE_2M_Ant1_2440_30~1000



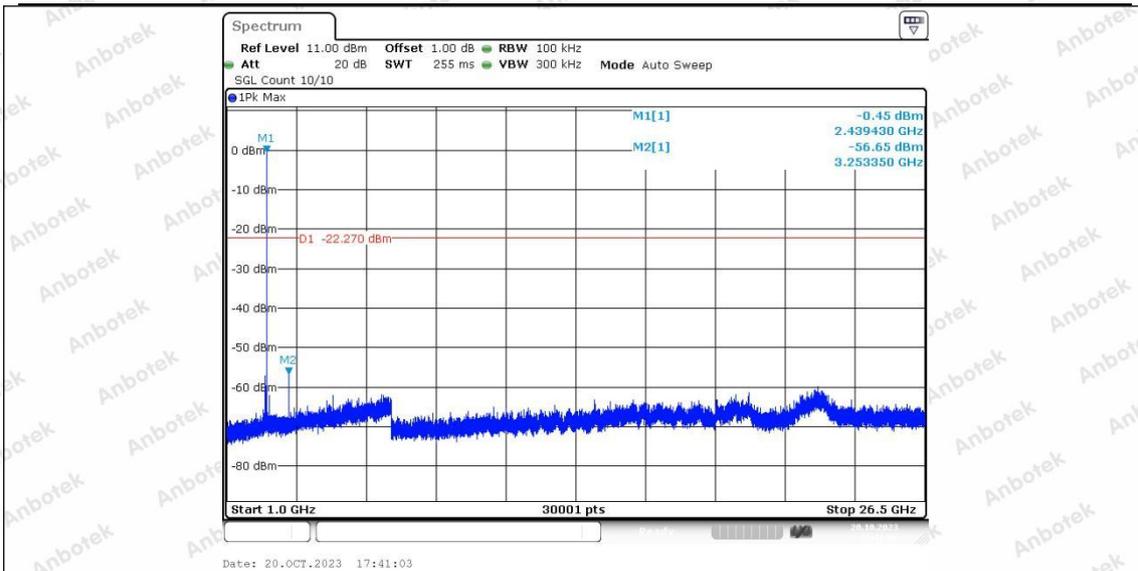
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



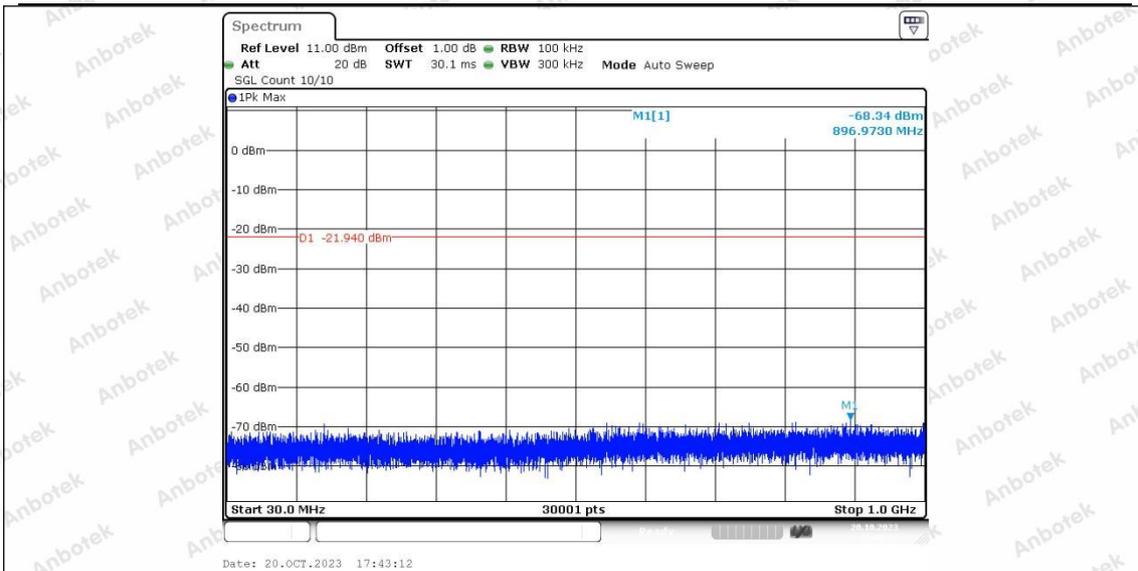
BLE_2M_Ant1_2480_30~1000

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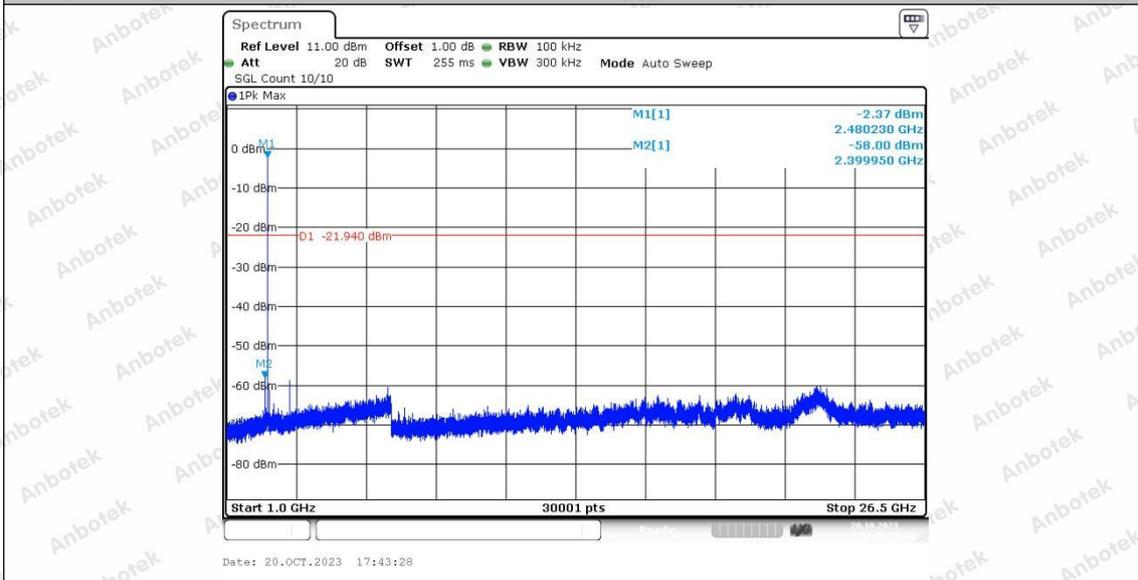
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BLE_2M_Ant1_2480_1000~26500



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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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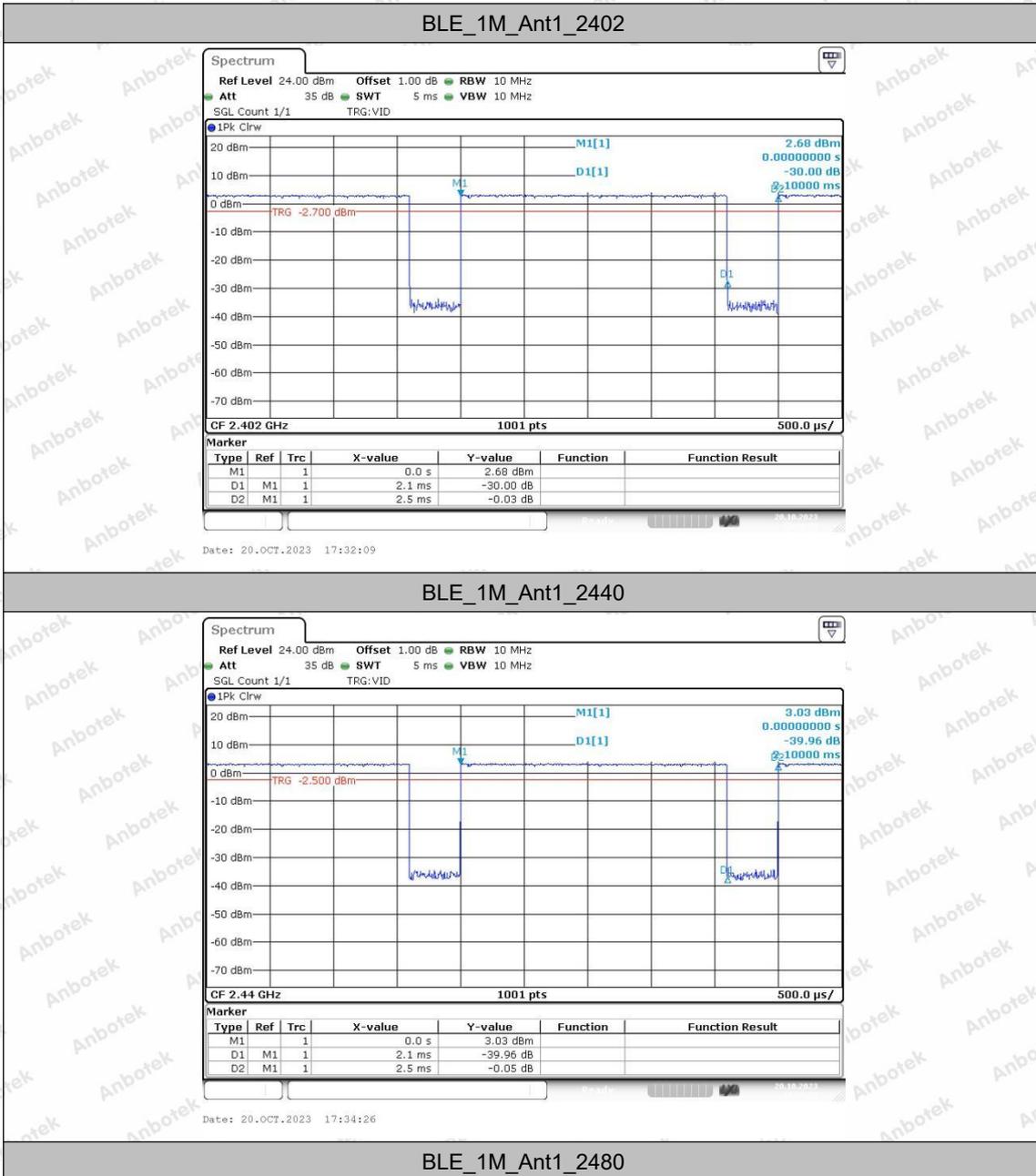
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Test Graphs

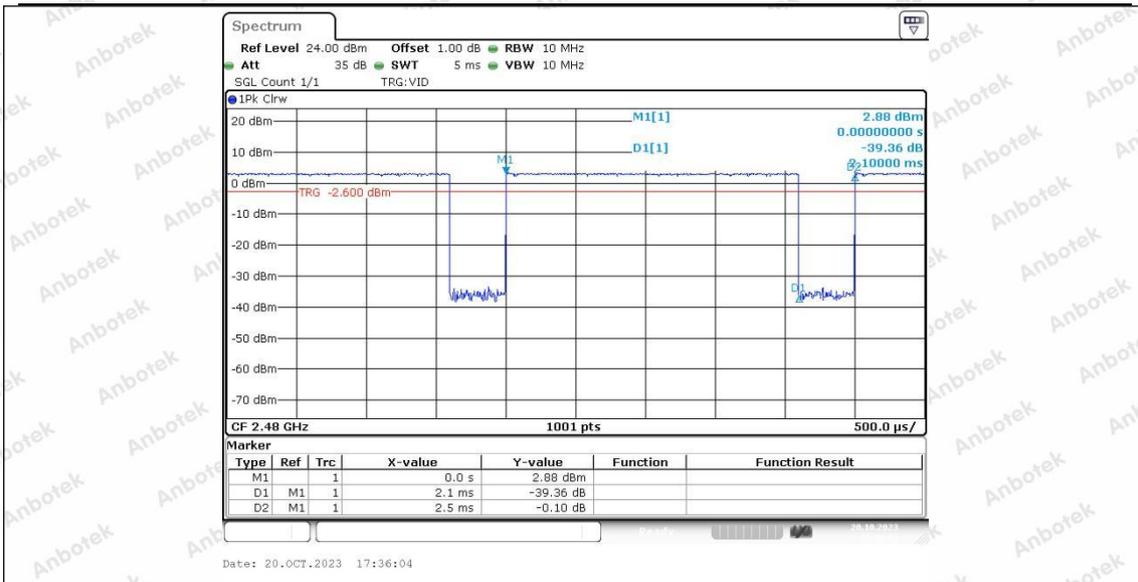


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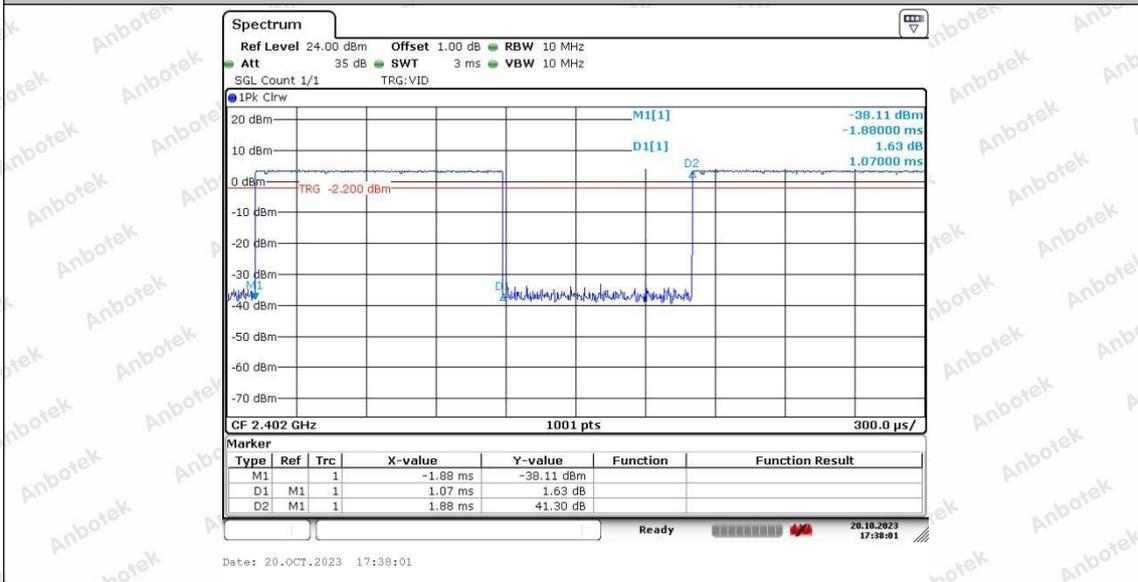
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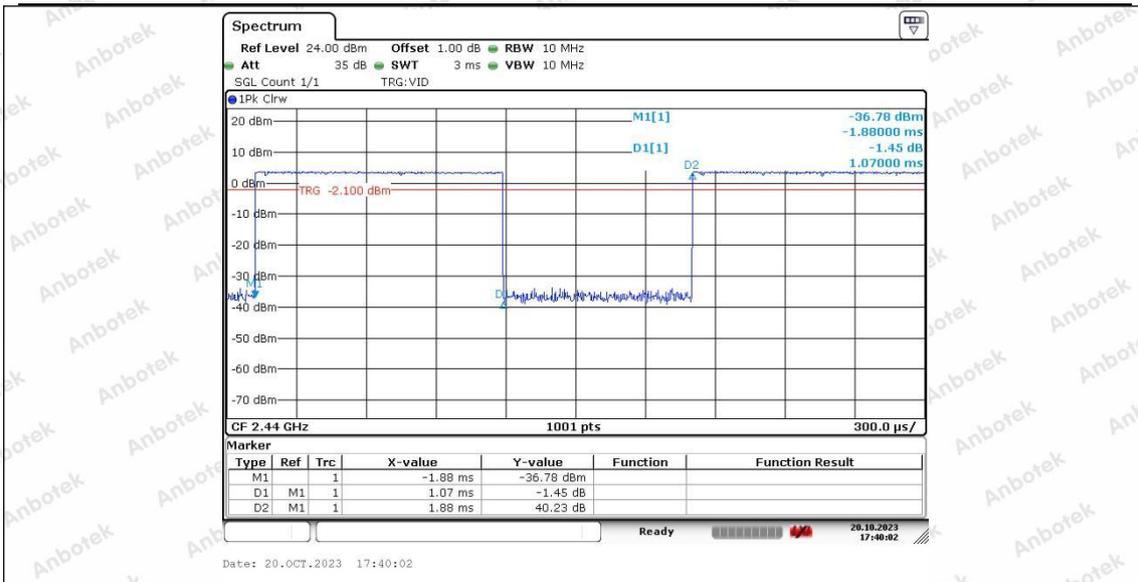


BLE_2M_Ant1_2402

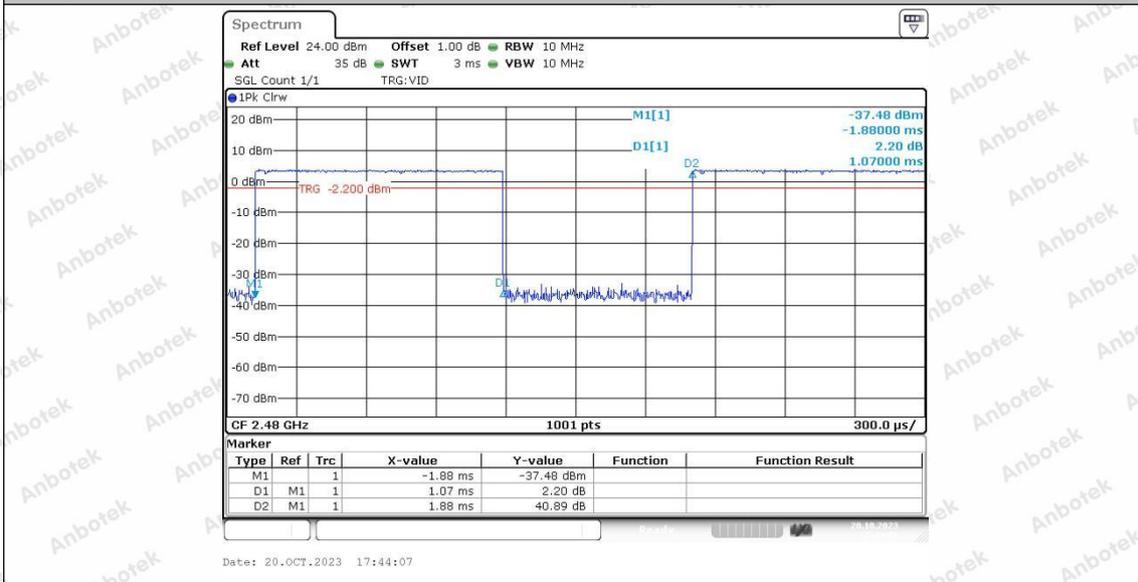


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---End---

