

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

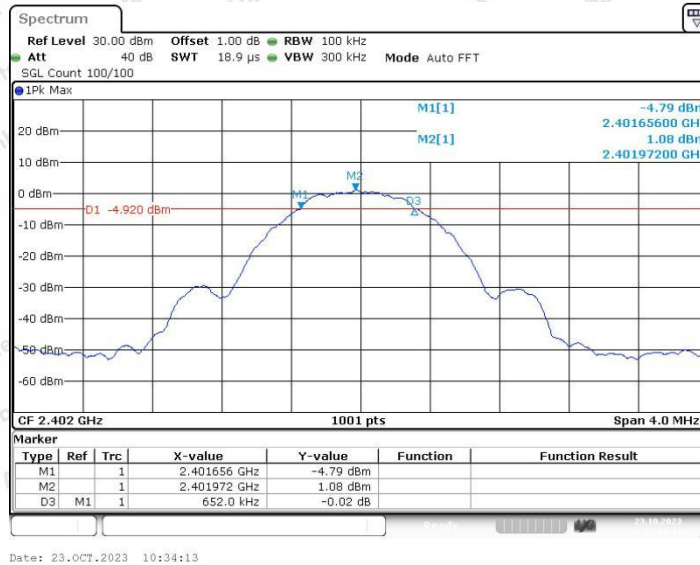
Test Result

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

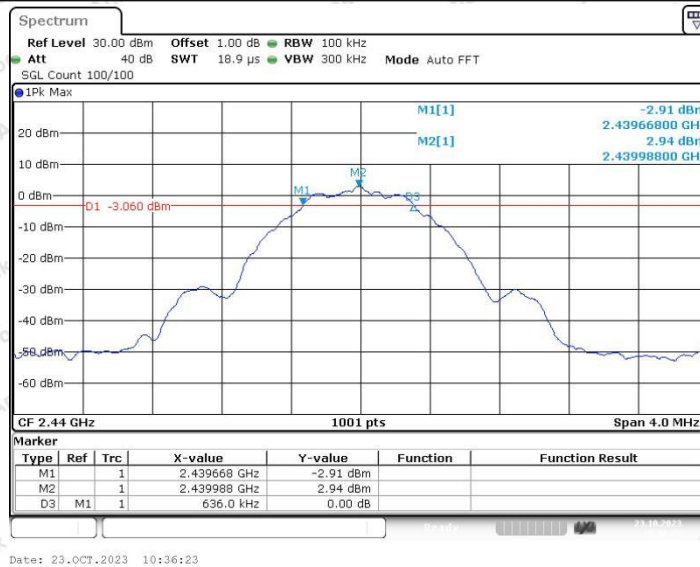


Test Graphs

BLE_1M_Ant1_2402

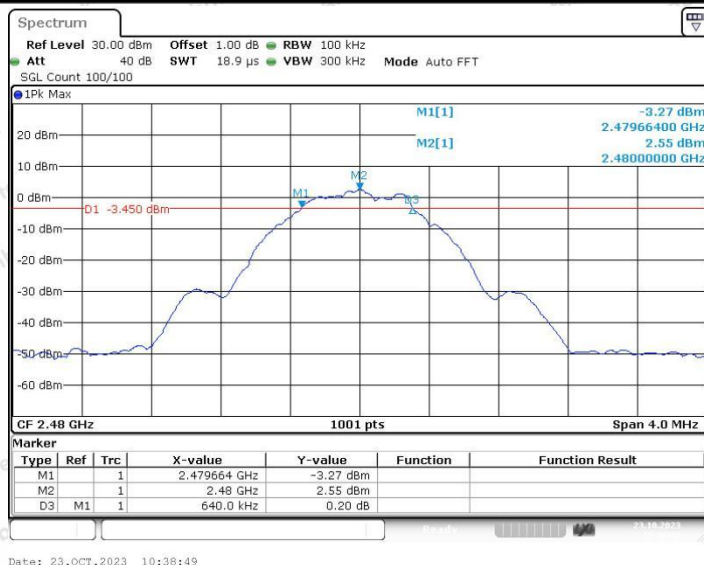


BLE_1M_Ant1_2440

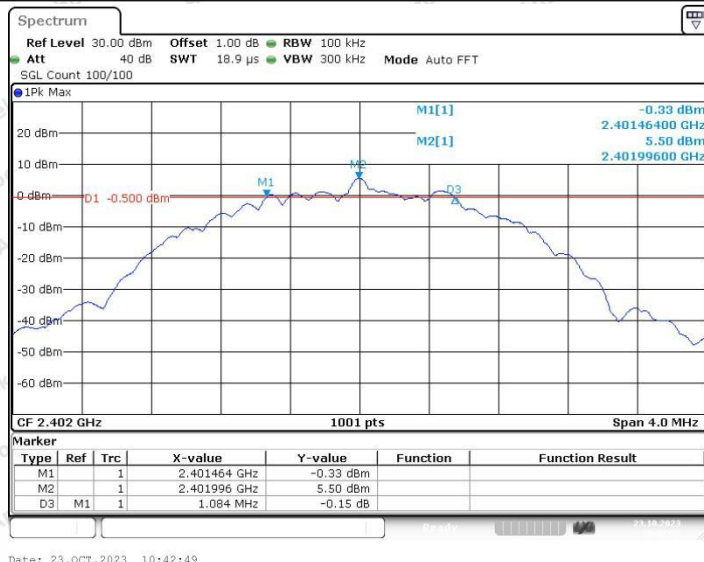


BLE_1M_Ant1_2480



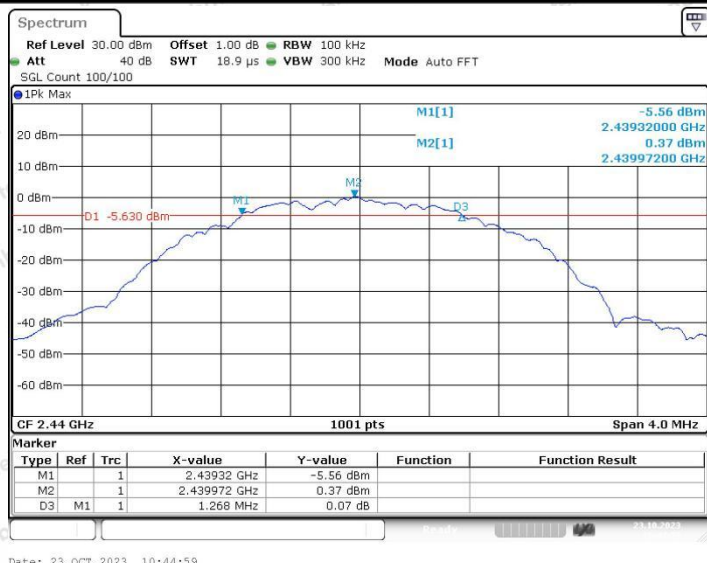


BLE_2M_Ant1_2402

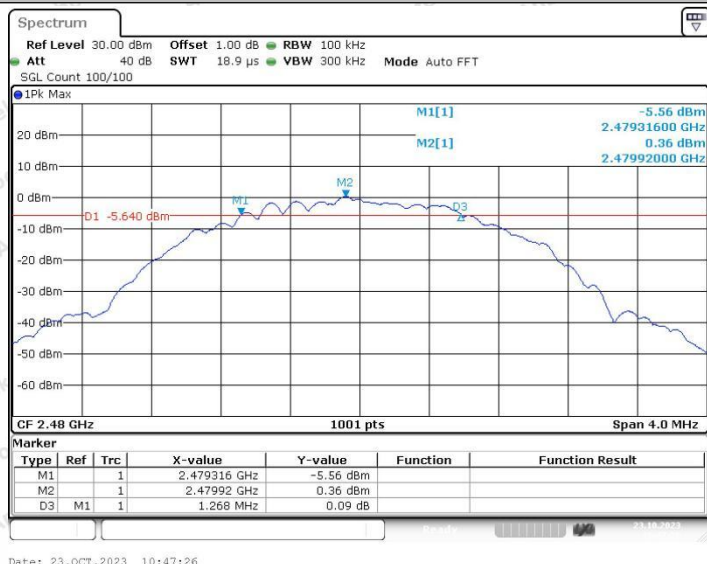


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

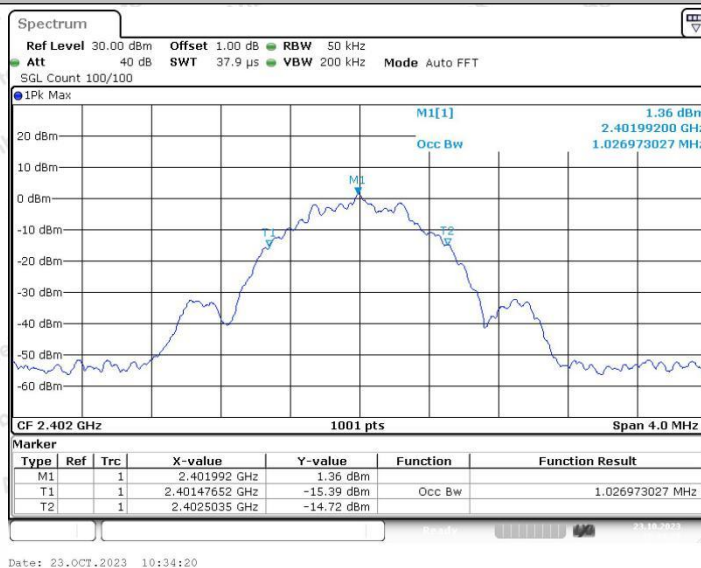
Test Result

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

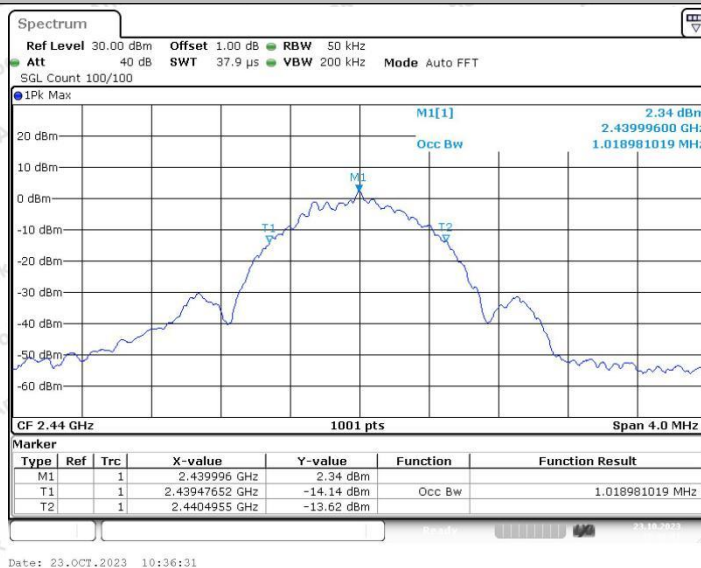


Test Graphs

BLE_1M_Ant1_2402

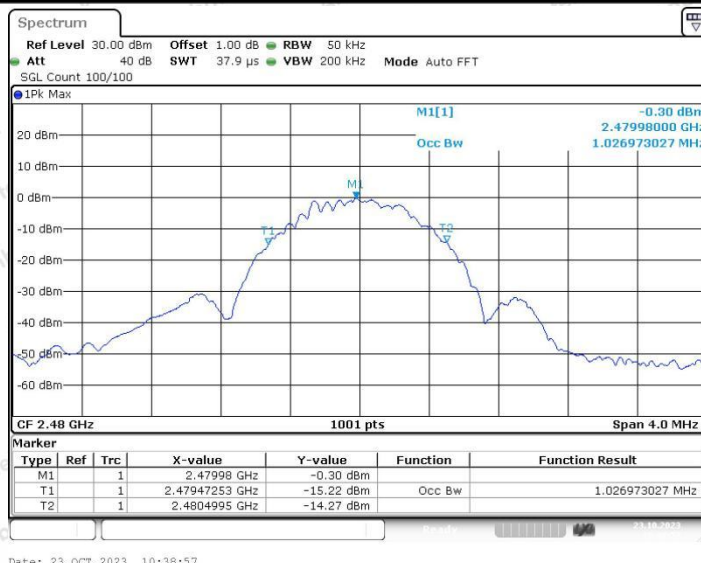


BLE_1M_Ant1_2440

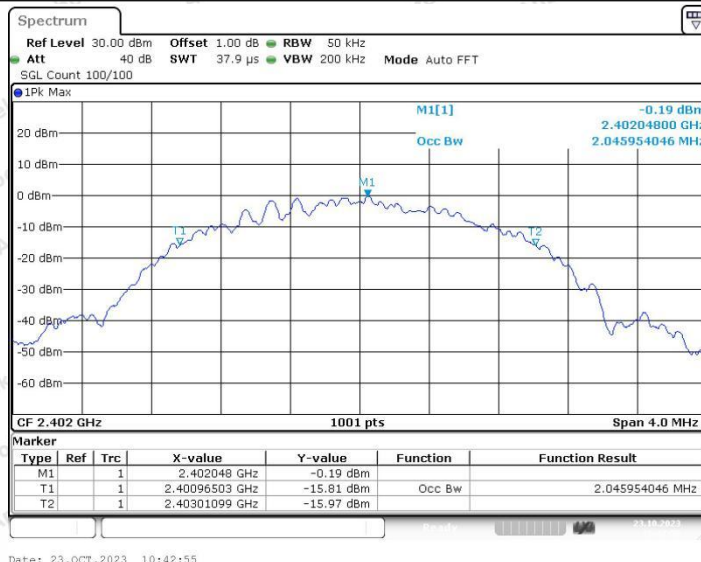


BLE_1M_Ant1_2480



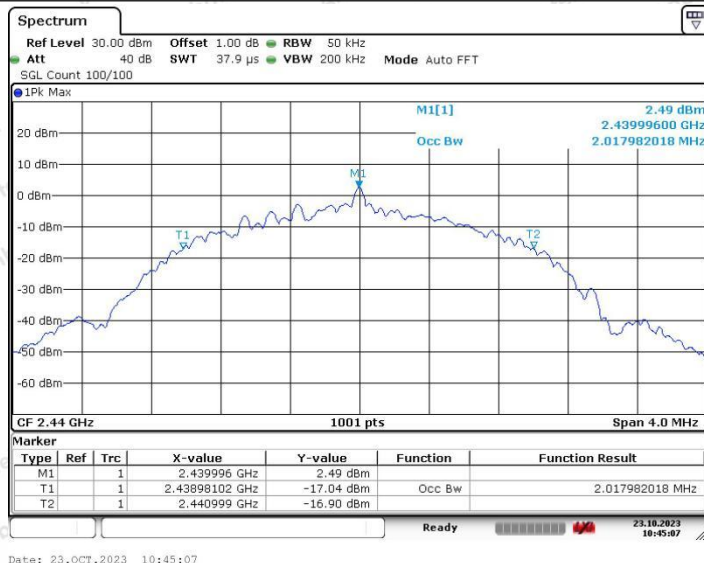


BLE_2M_Ant1_2402

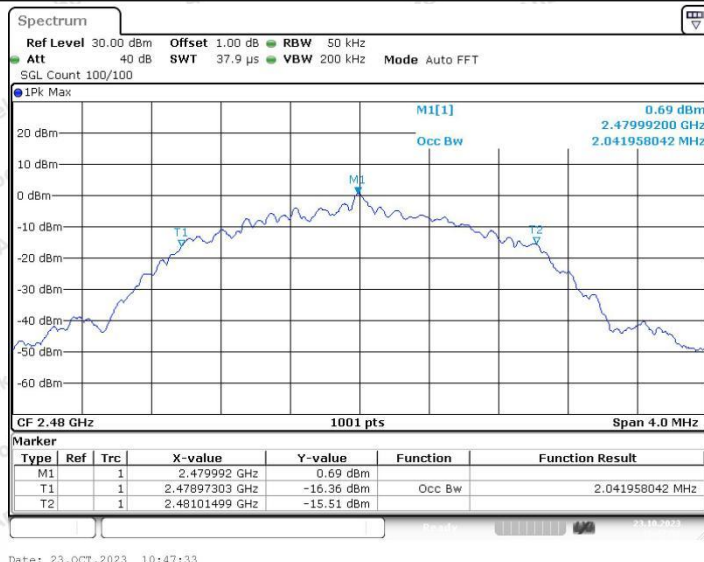


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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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



Test Graphs Peak



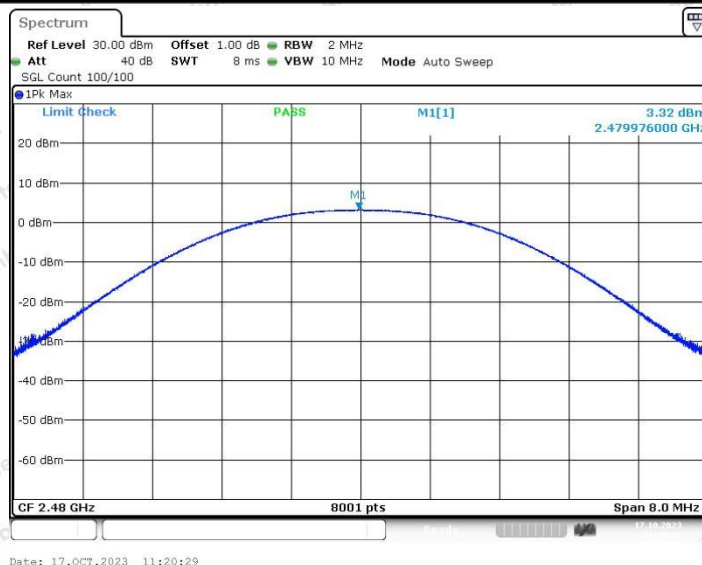
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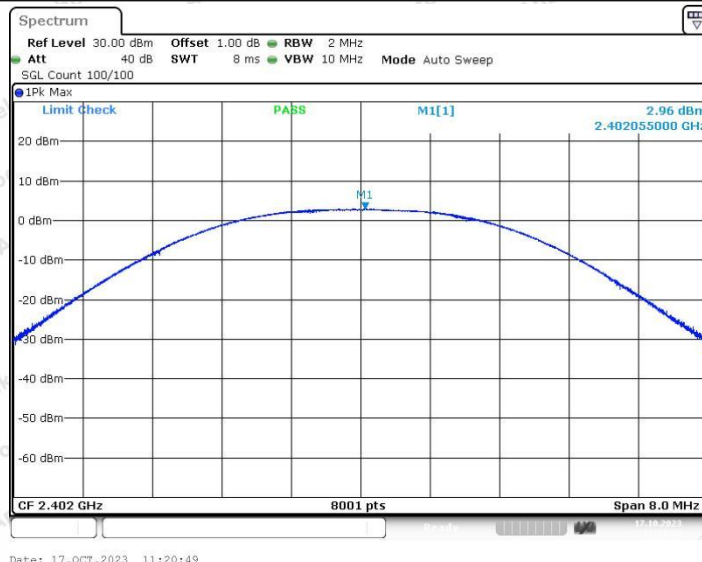


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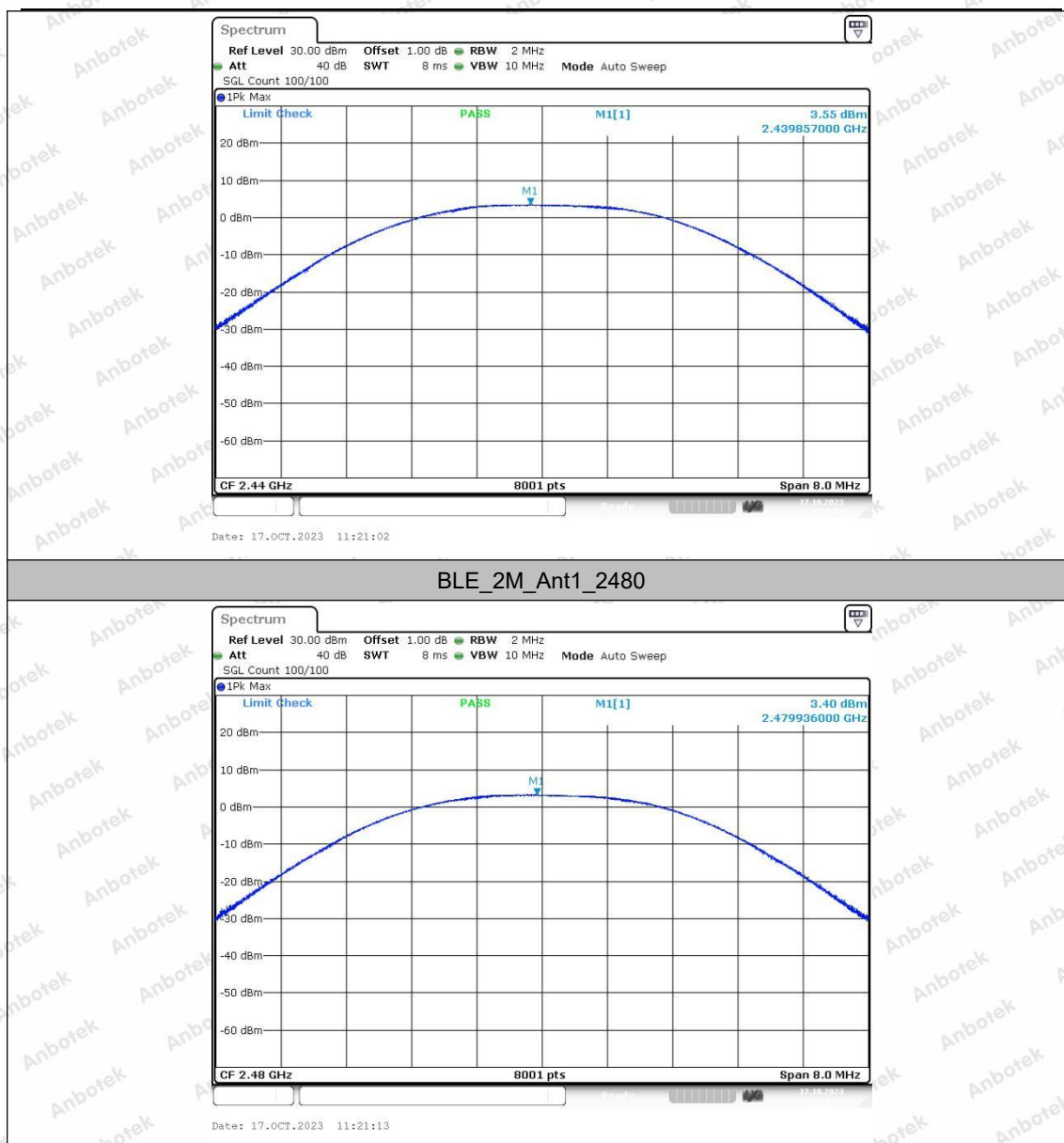


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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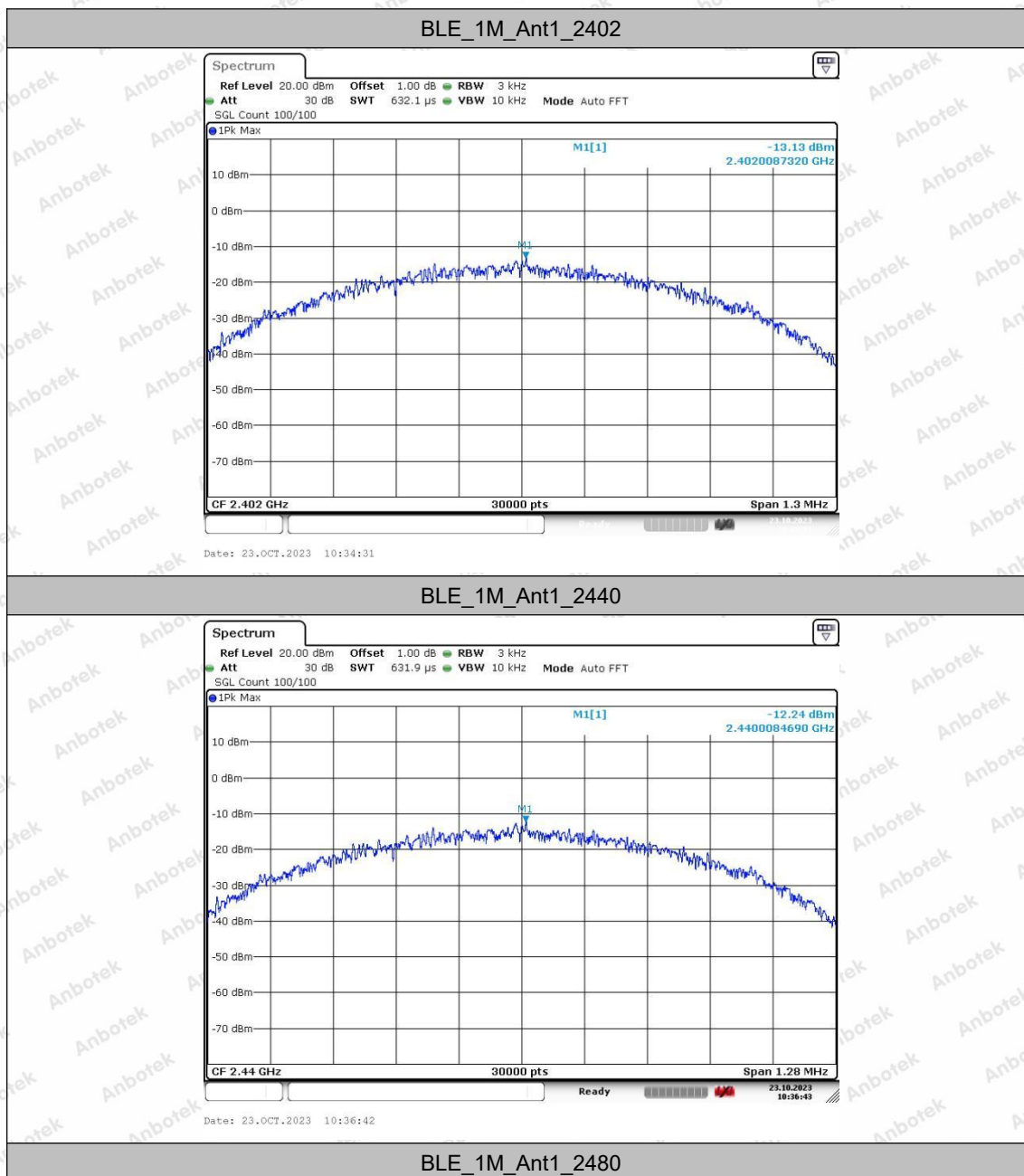
Appendix D: Maximum power spectral density

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



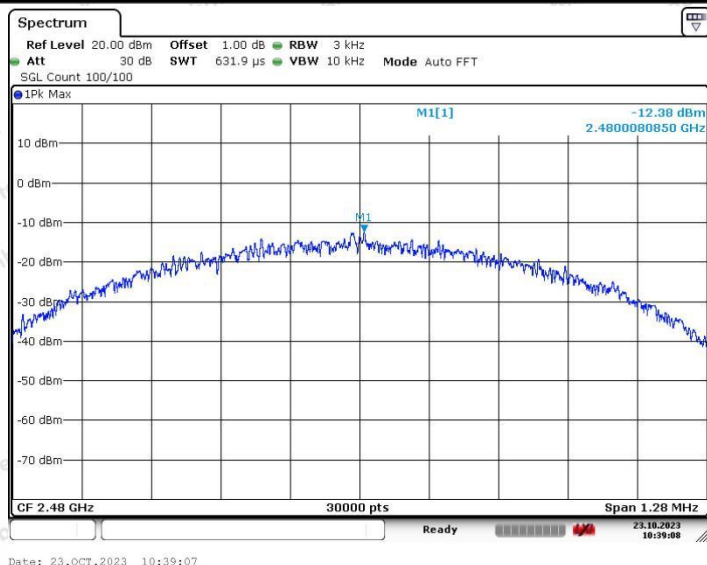
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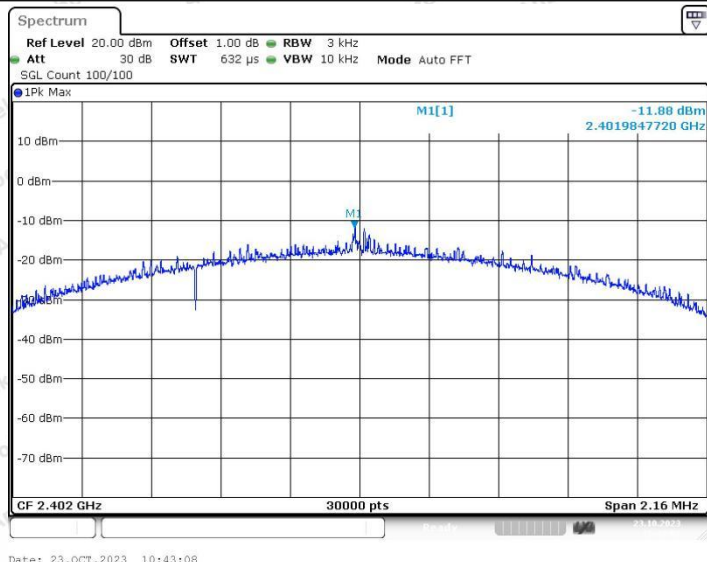


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

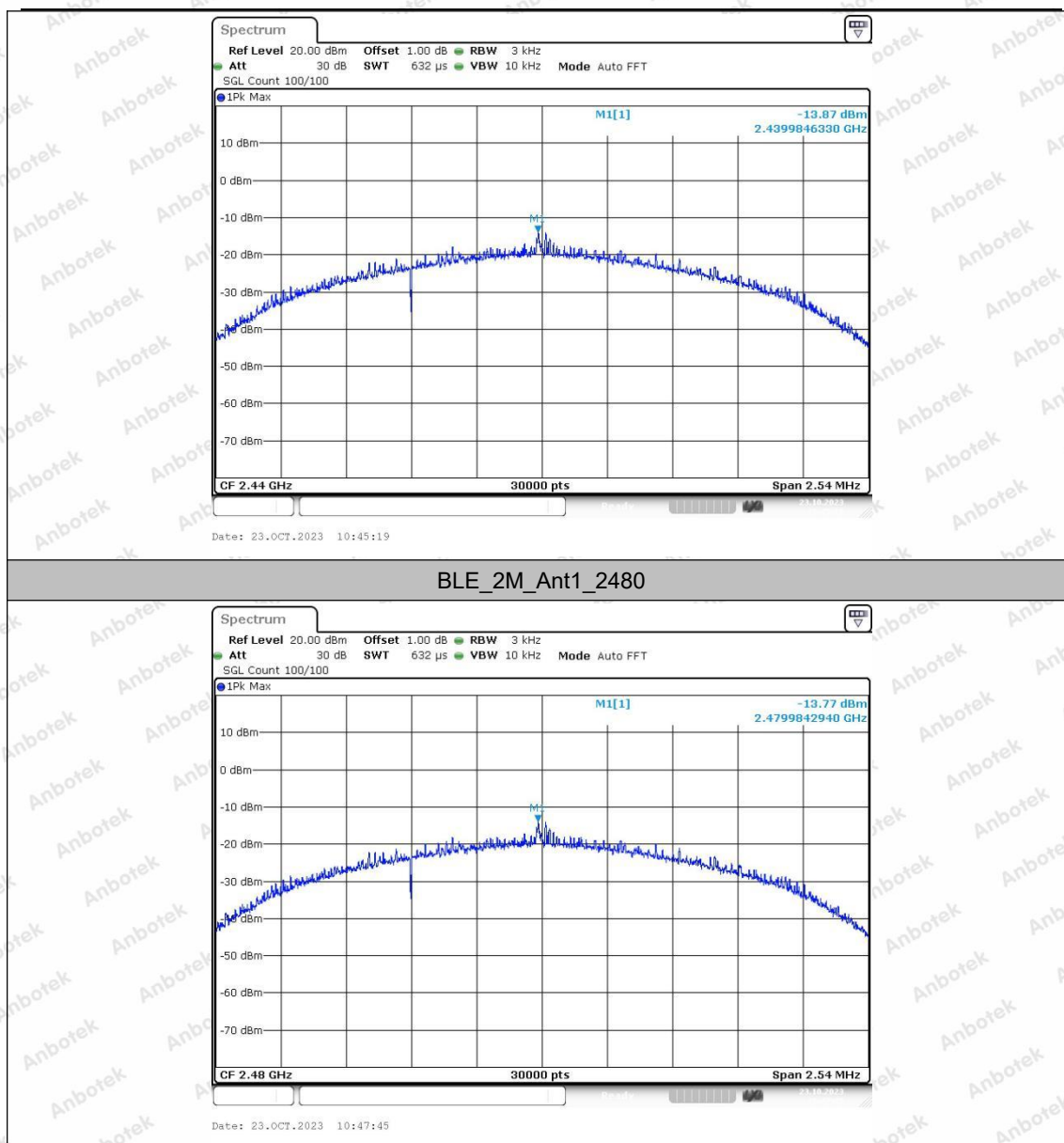
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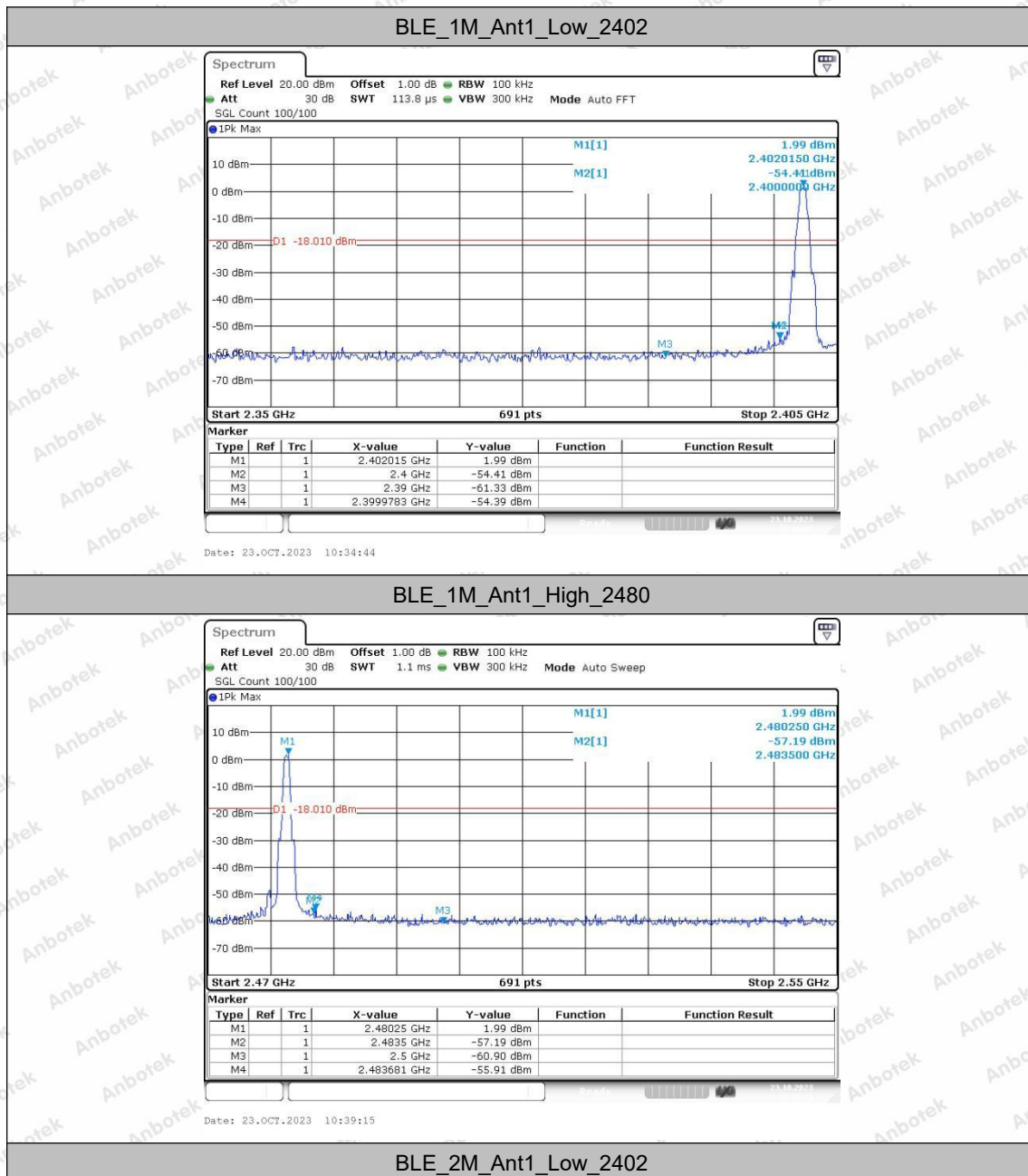
Appendix E: Band edge measurements

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



Test Graphs



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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

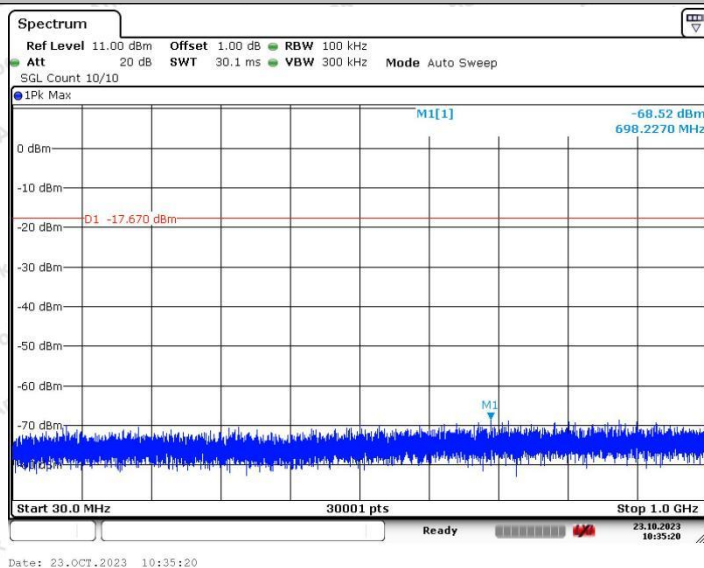


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

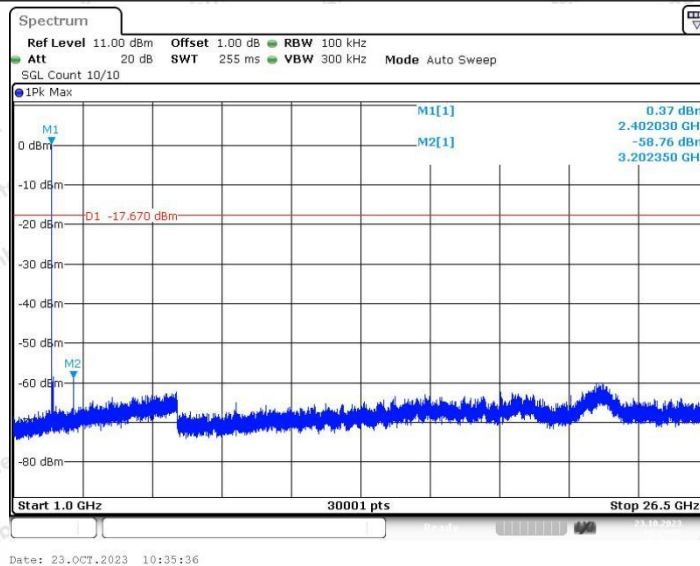
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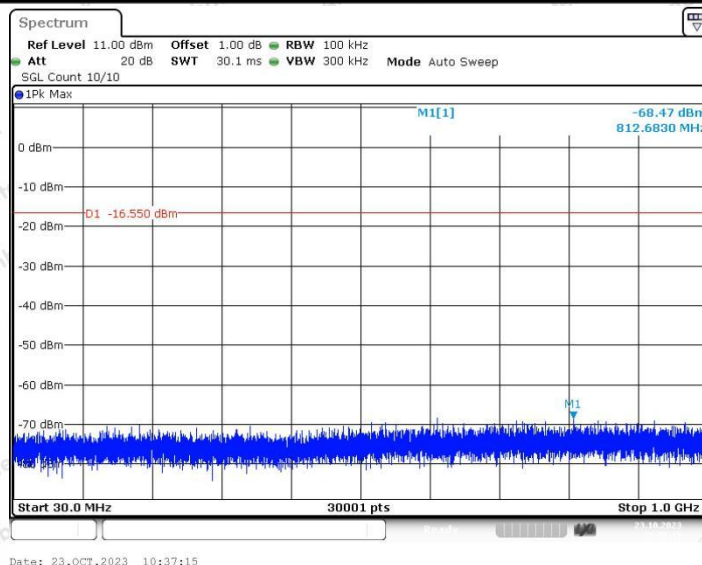


BLE_1M_Ant1_2440_0~Reference

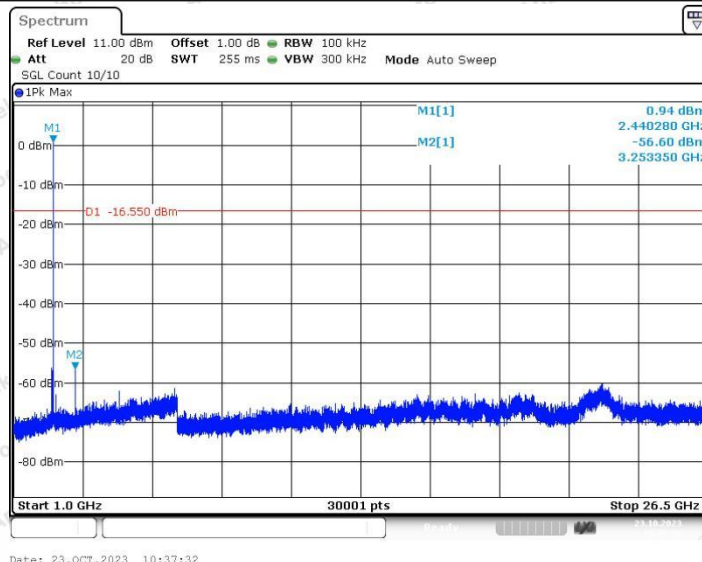


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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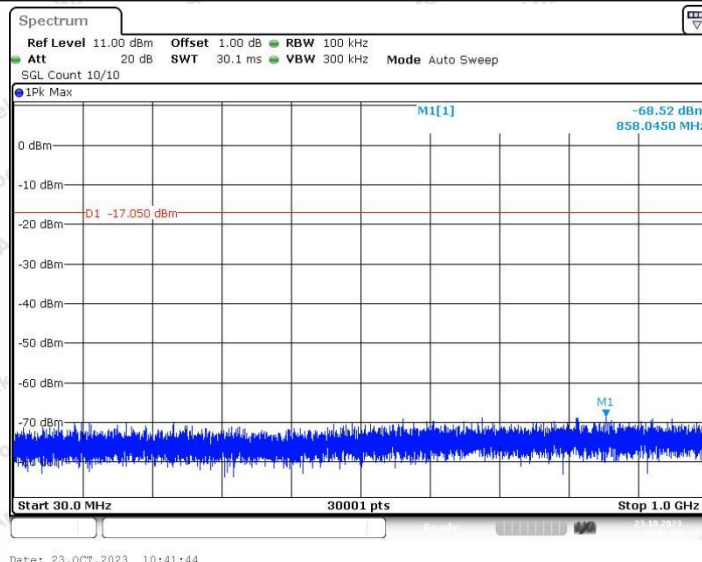


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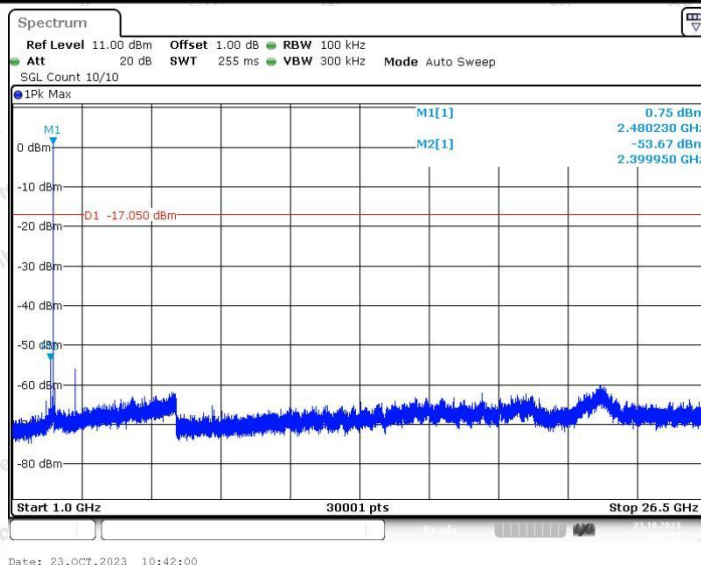


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



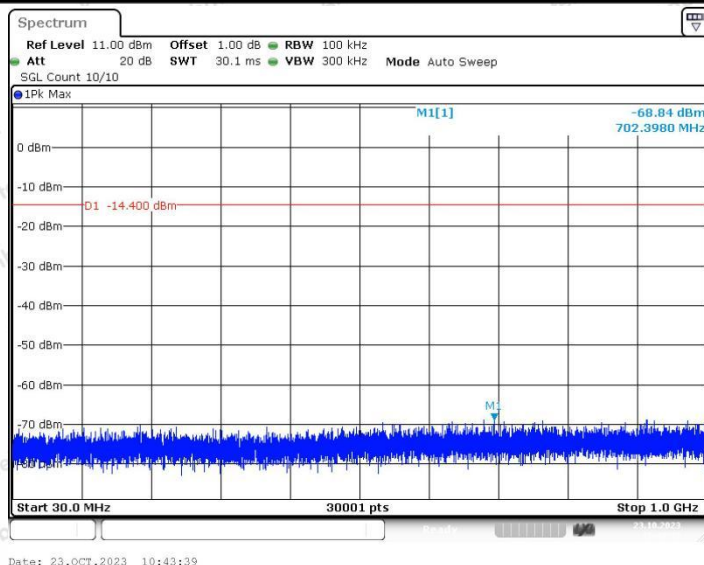


BLE_2M_Ant1_2402_0~Reference

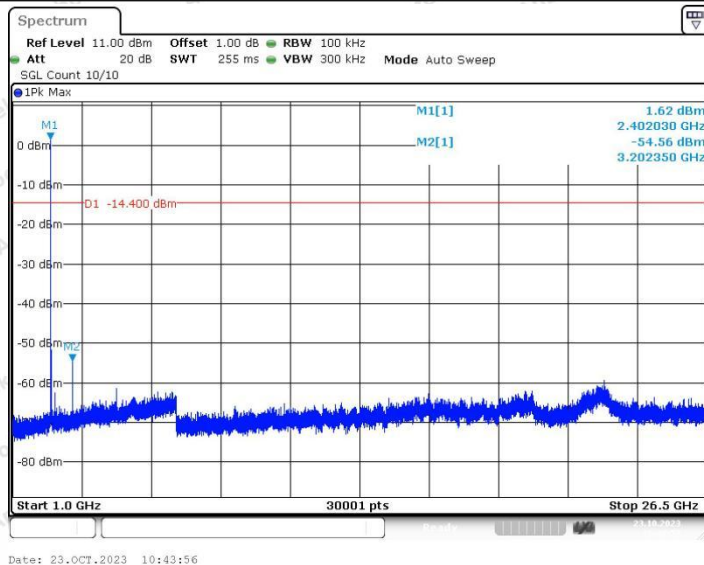


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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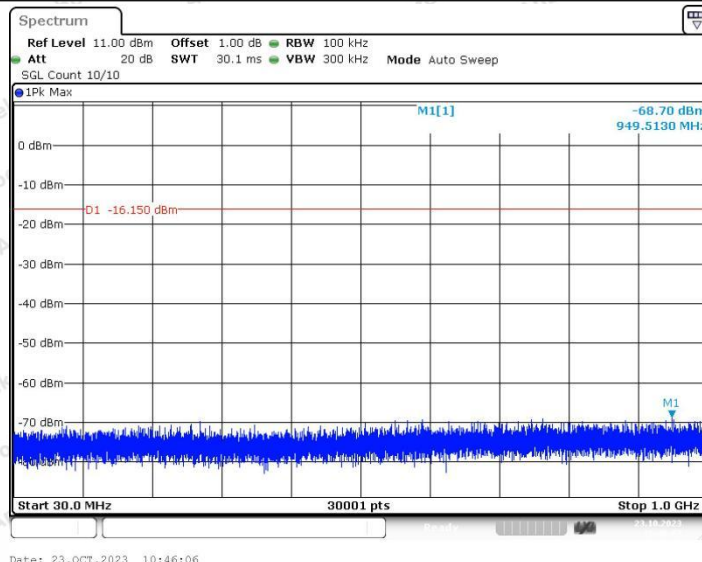


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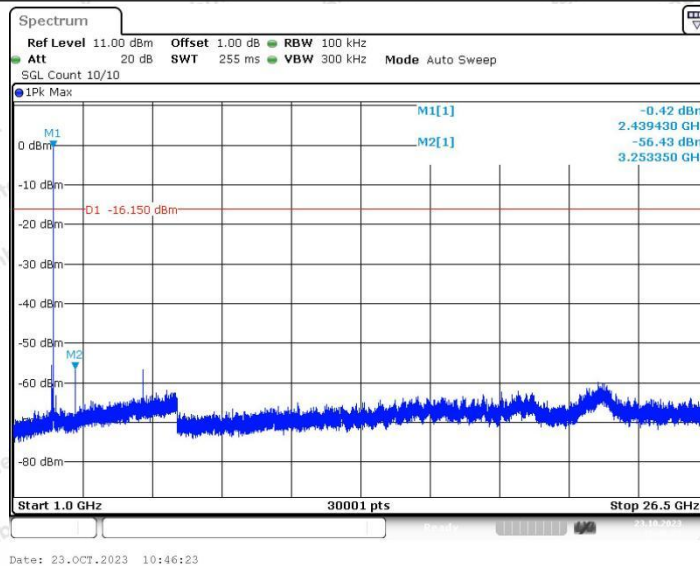


BLE_2M_Ant1_2440_30~1000

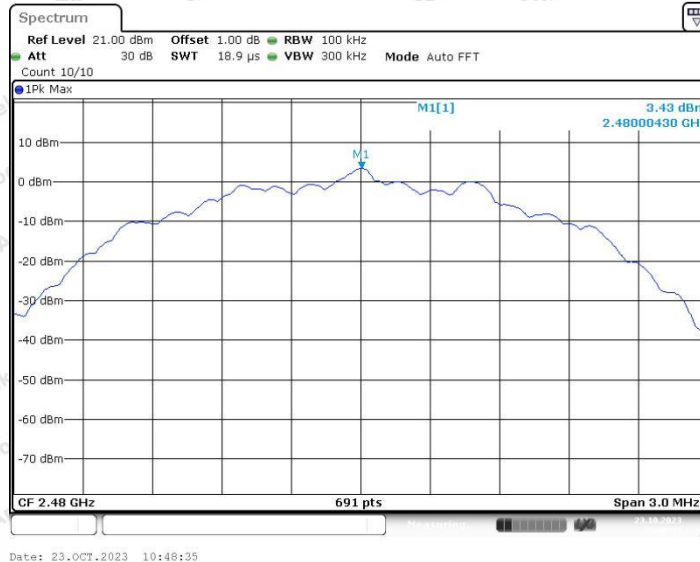


BLE_2M_Ant1_2440_1000~26500



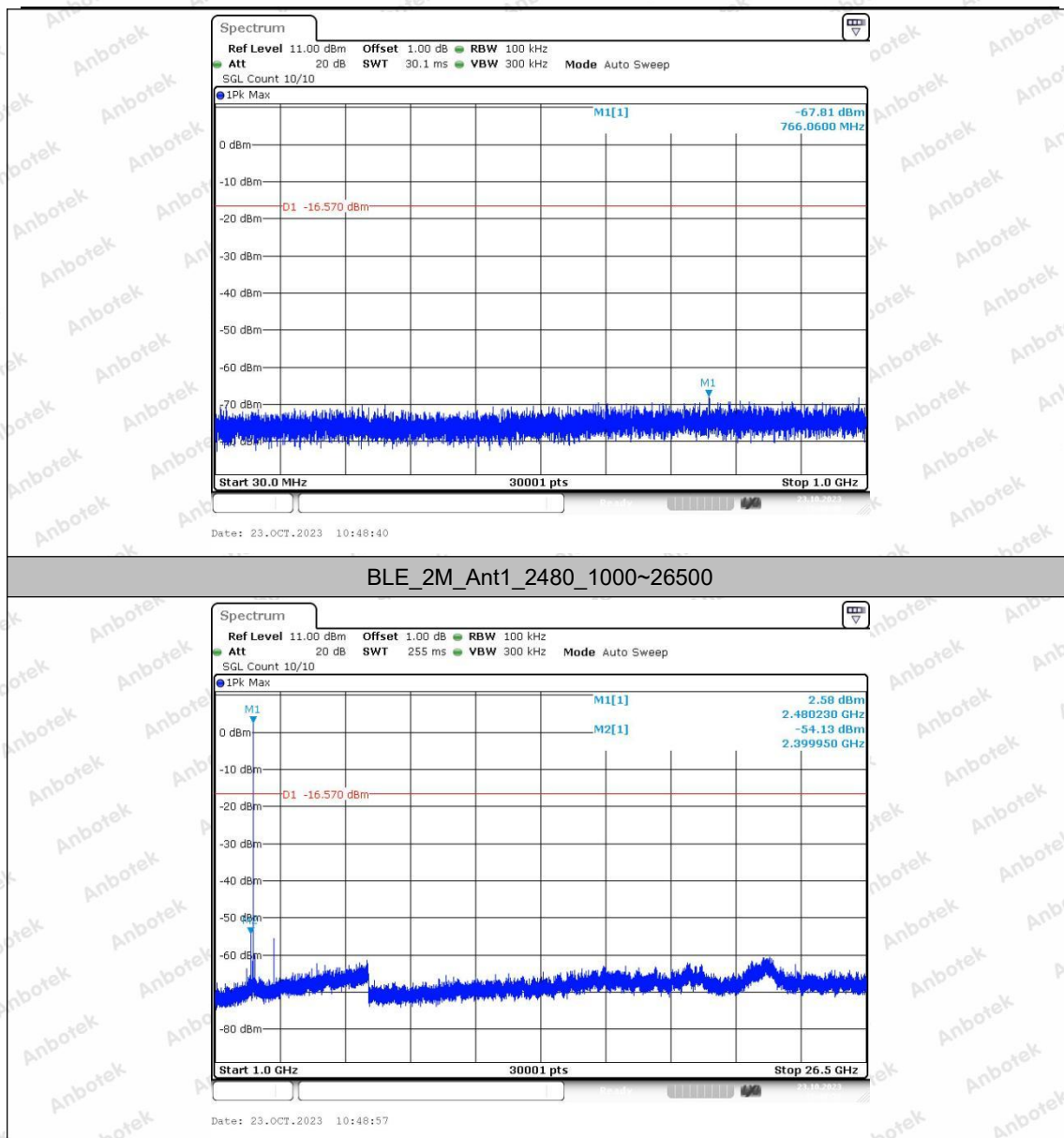


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



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Appendix G: Duty Cycle

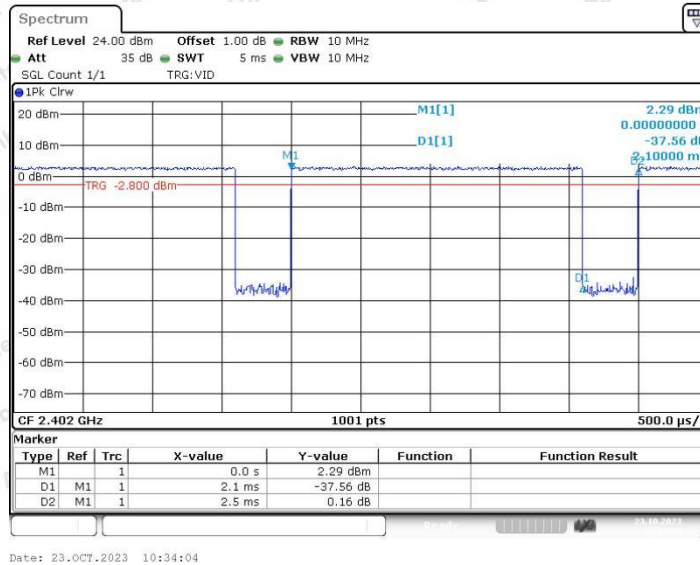
Test Result

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

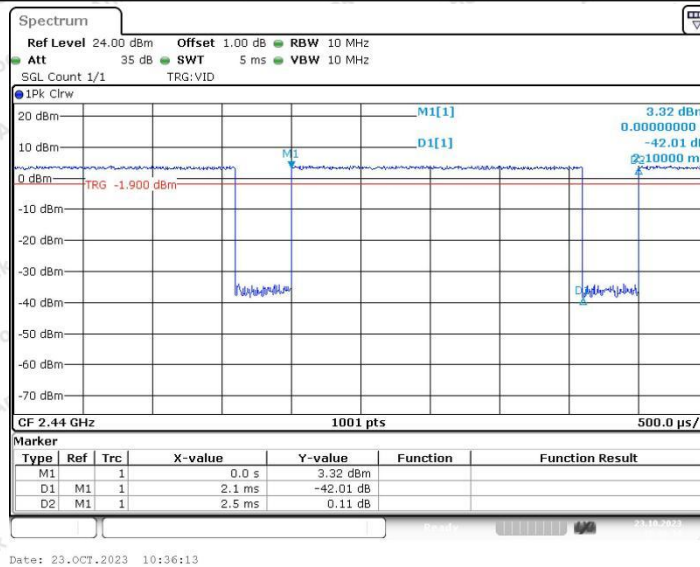


Test Graphs

BLE_1M_Ant1_2402

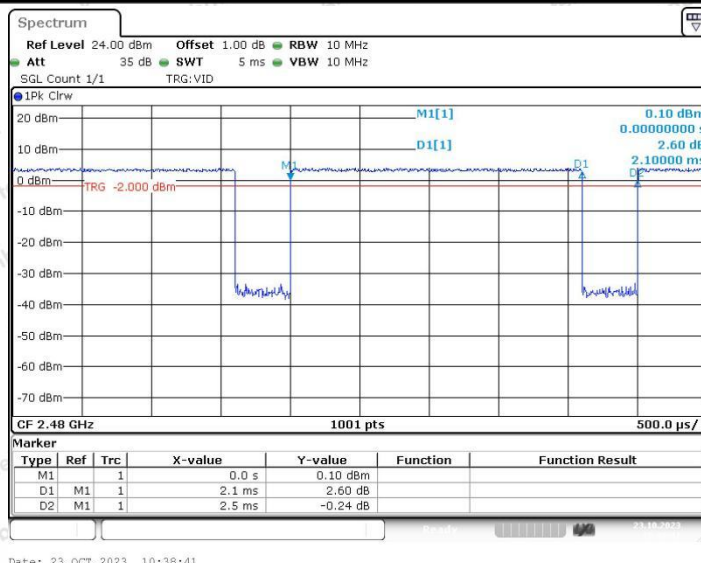


BLE_1M_Ant1_2440

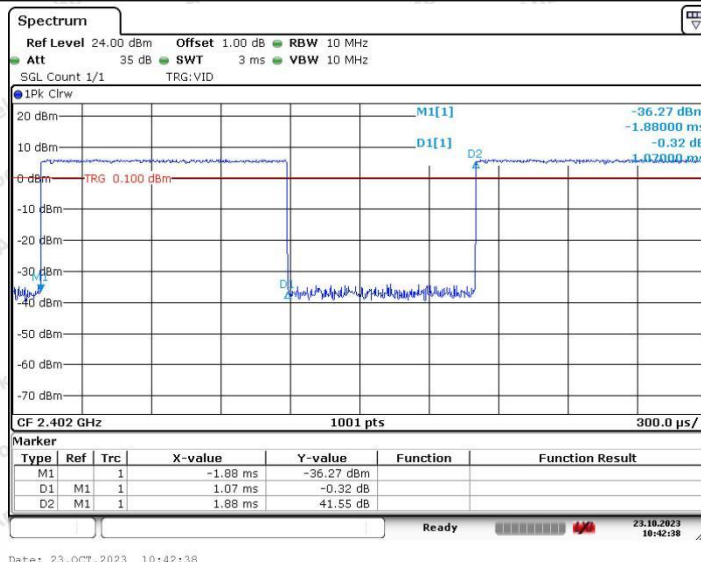


BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

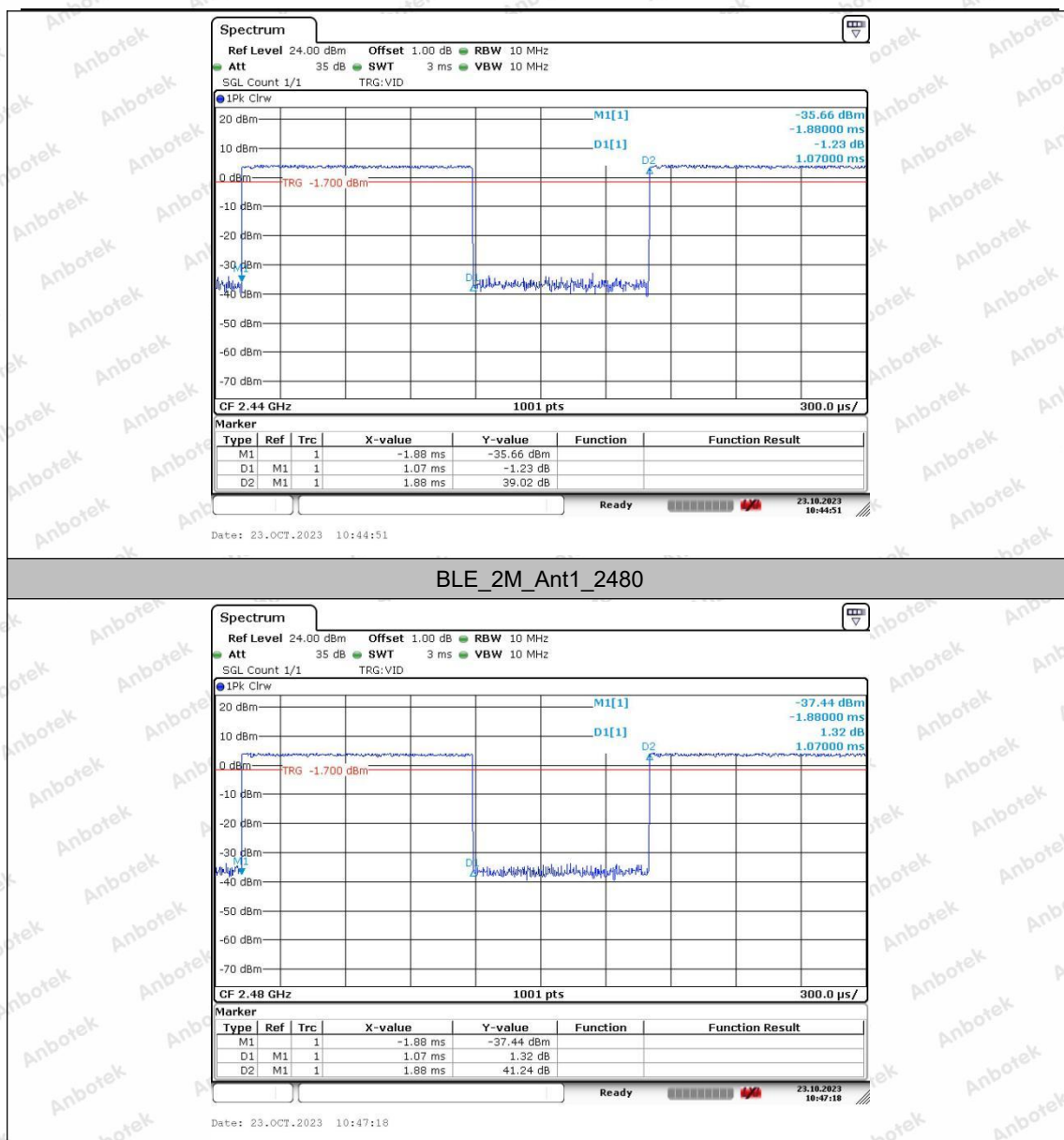
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