

Appendix Test Data

Report No.:	18220WC30222001	Test Sample No.:	1-2-2
Start Test Date:	2023.10.25	Finish Test Date:	2023.10.27
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.3°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

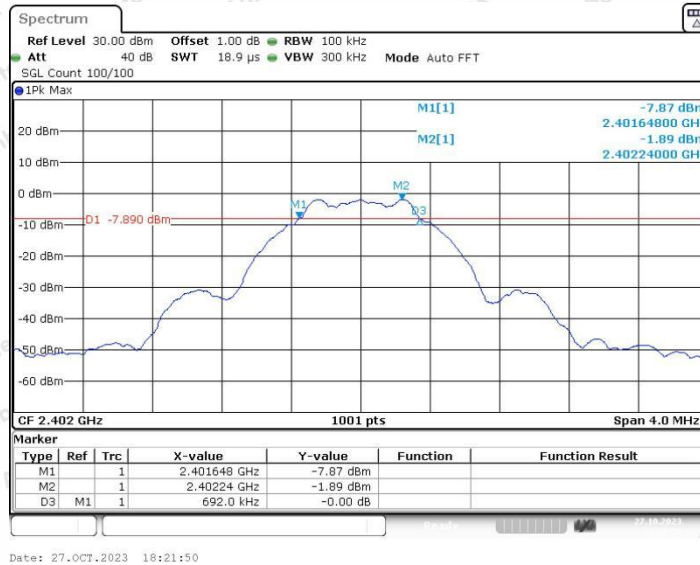
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.69	2401.65	2402.34	0.5	PASS
		2440	0.70	2439.66	2440.36	0.5	PASS
		2480	0.70	2479.66	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.10	2401.43	2402.53	0.5	PASS
		2440	1.34	2439.33	2440.67	0.5	PASS
		2480	1.12	2479.43	2480.55	0.5	PASS

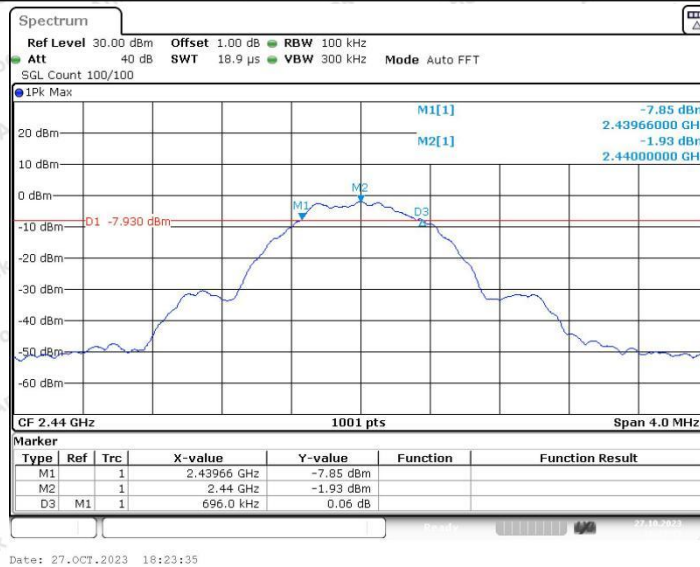


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

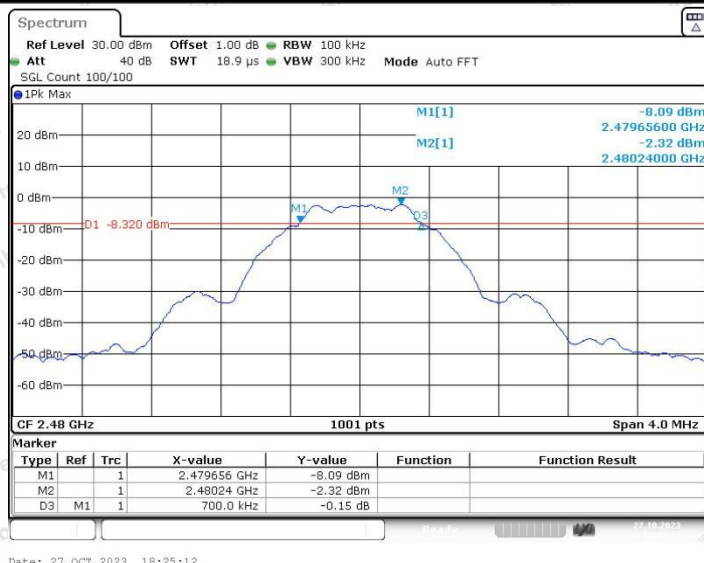
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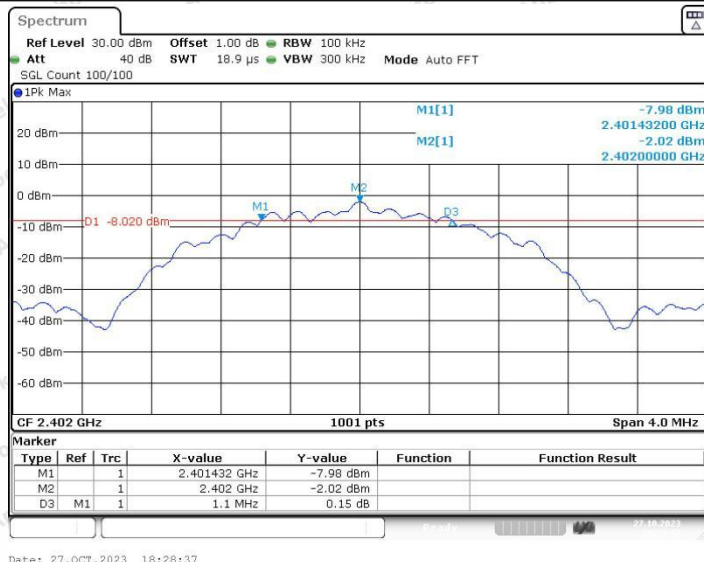


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

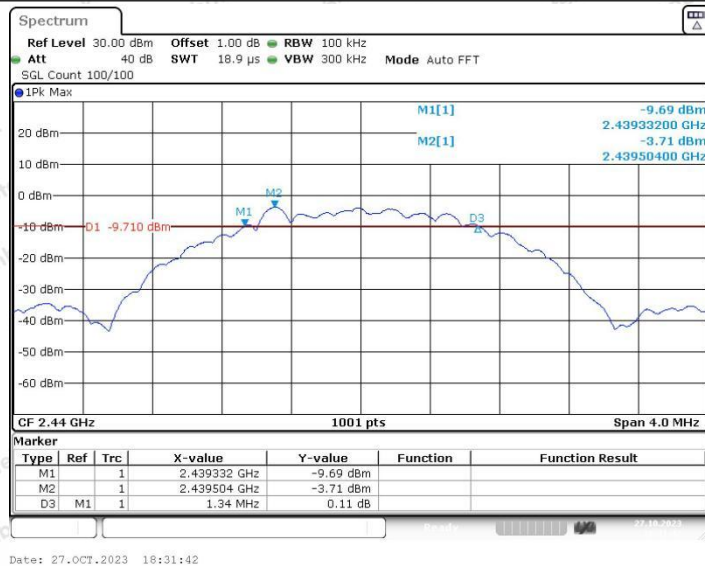
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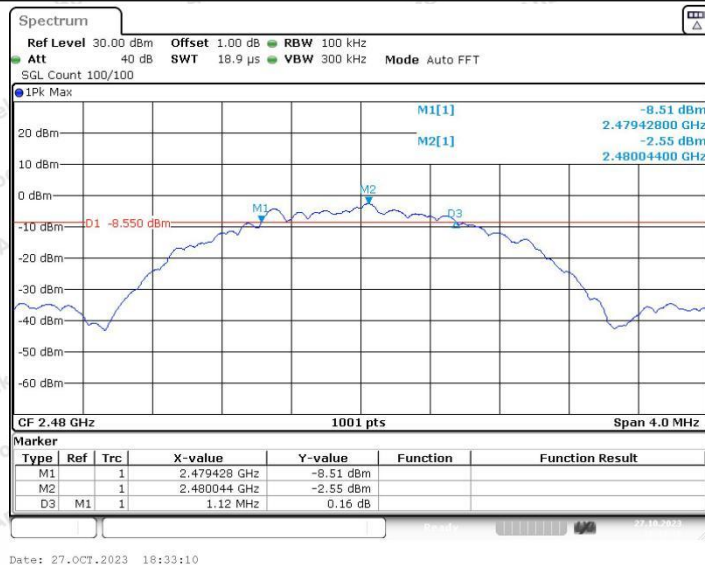


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BLE_2M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.047	2401.4725	2402.5195
		2440	1.059	2439.4685	2440.5275
		2480	1.055	2479.4685	2480.5235
BLE_2M	Ant1	2402	2.054	2400.9650	2403.0190
		2440	2.038	2438.9930	2441.0310
		2480	2.042	2478.9810	2481.0230

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Test Graphs

BLE_1M_Ant1_2402

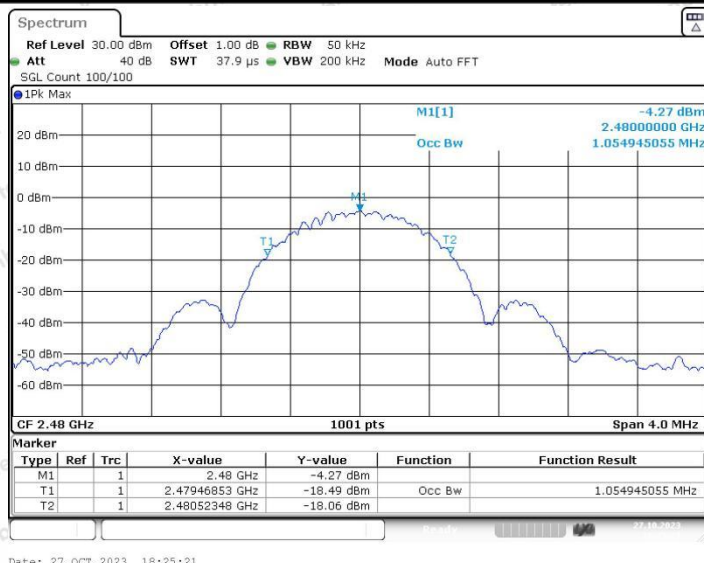


BLE_1M_Ant1_2440

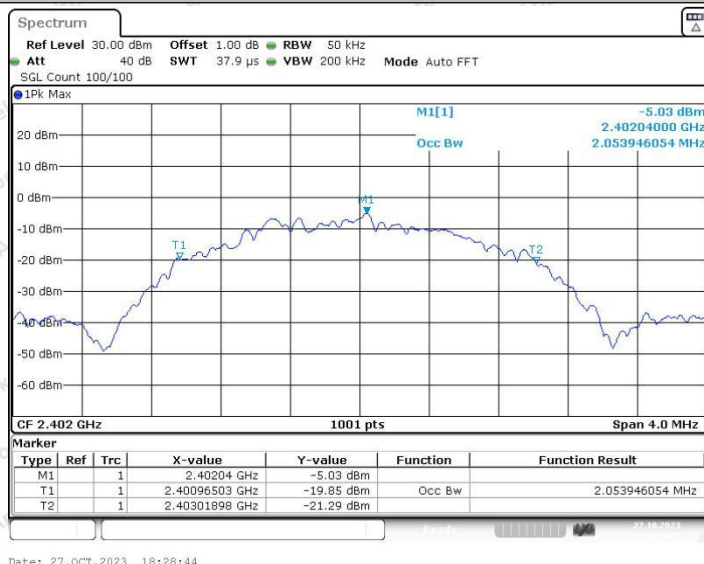


BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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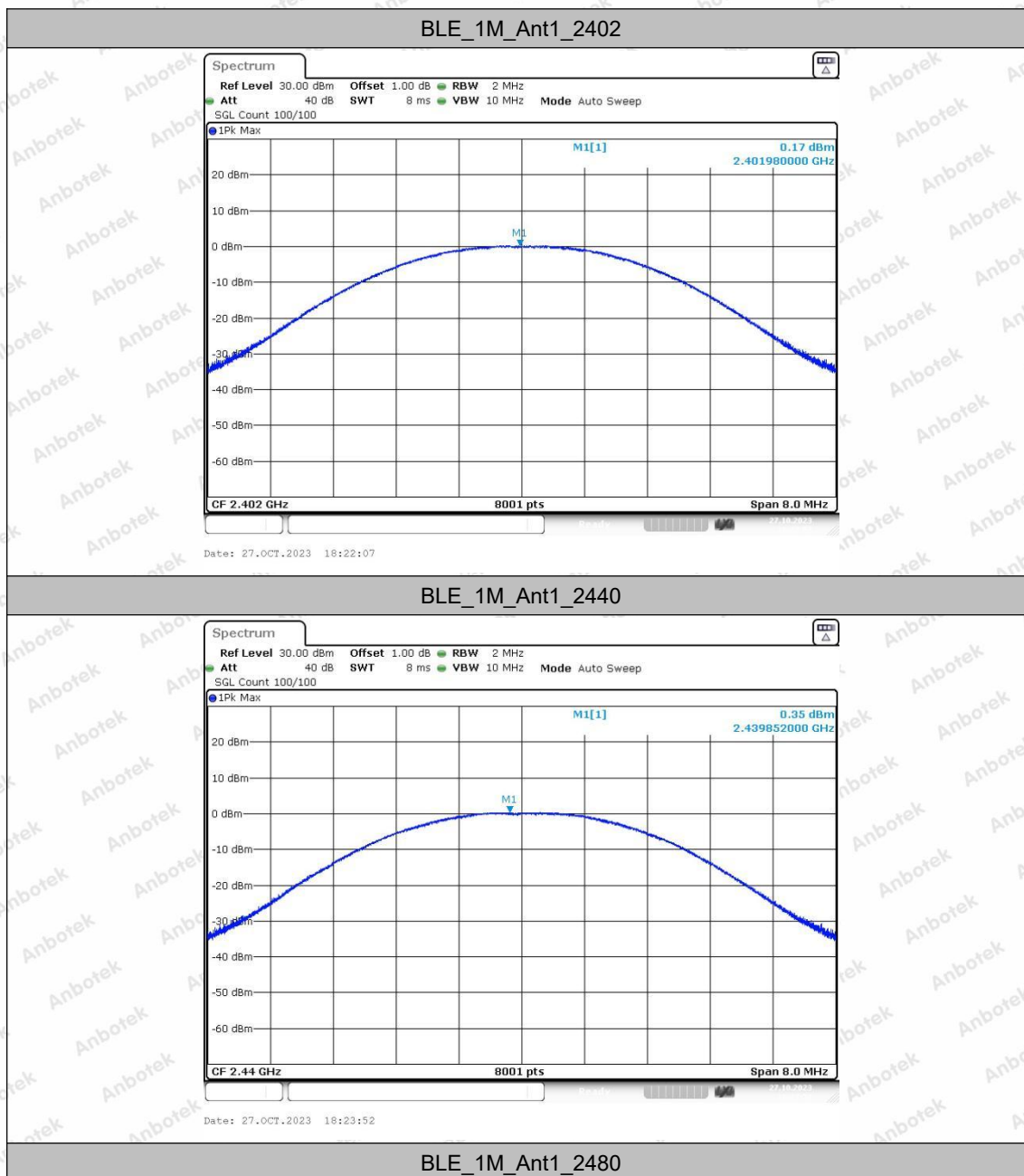
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.17	≤30	PASS
		2440	0.35	≤30	PASS
		2480	0.38	≤30	PASS
BLE_2M	Ant1	2402	-0.31	≤30	PASS
		2440	-0.12	≤30	PASS
		2480	-0.12	≤30	PASS



Test Graphs Peak



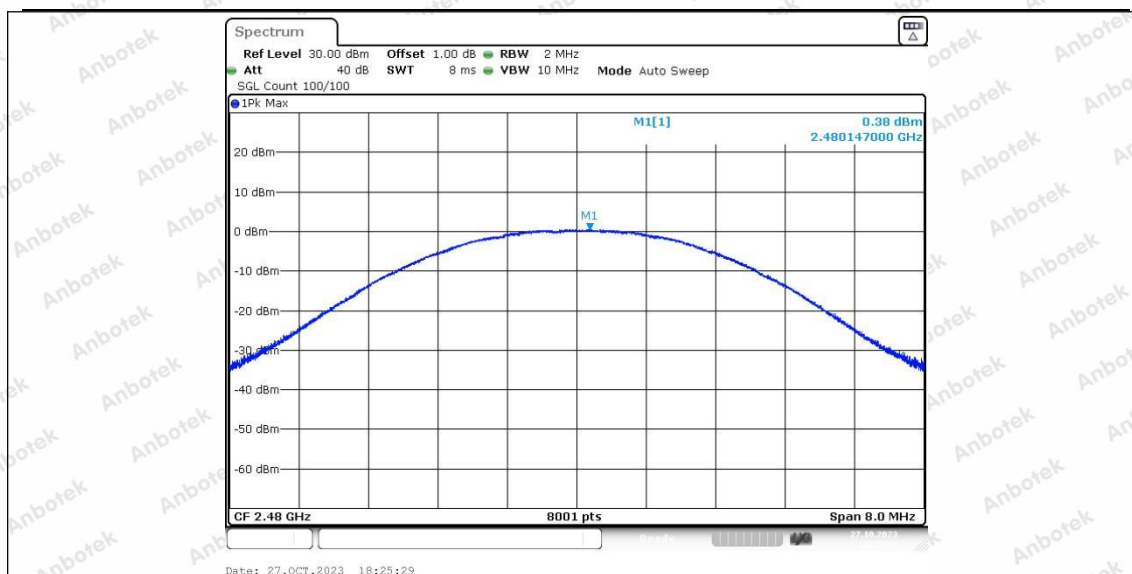
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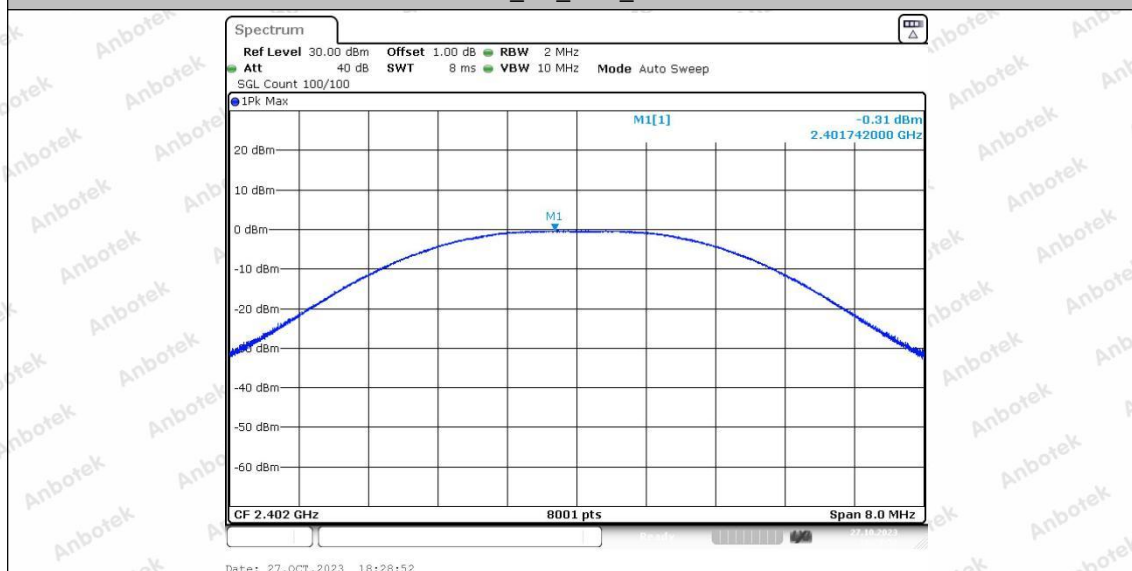


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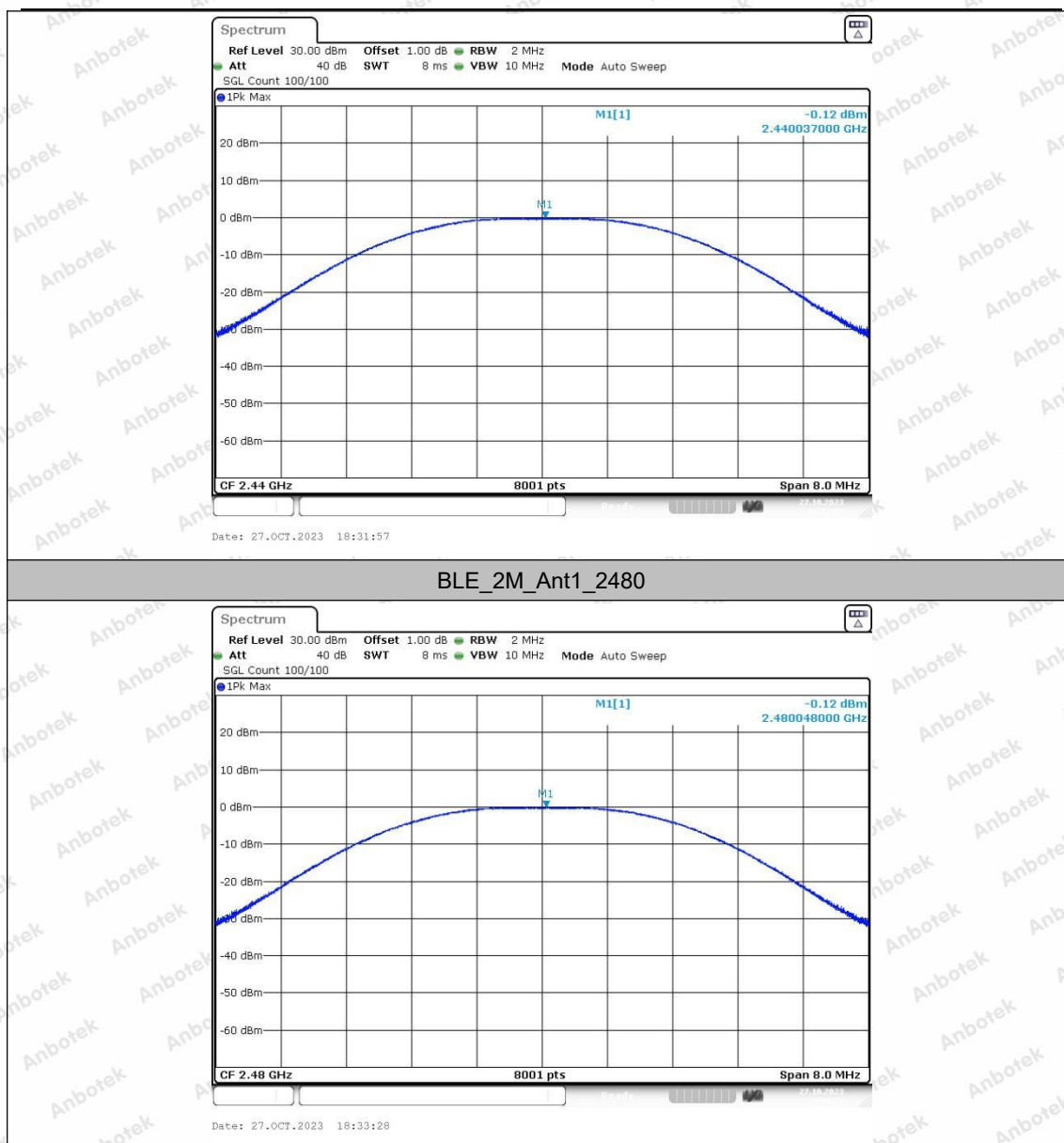


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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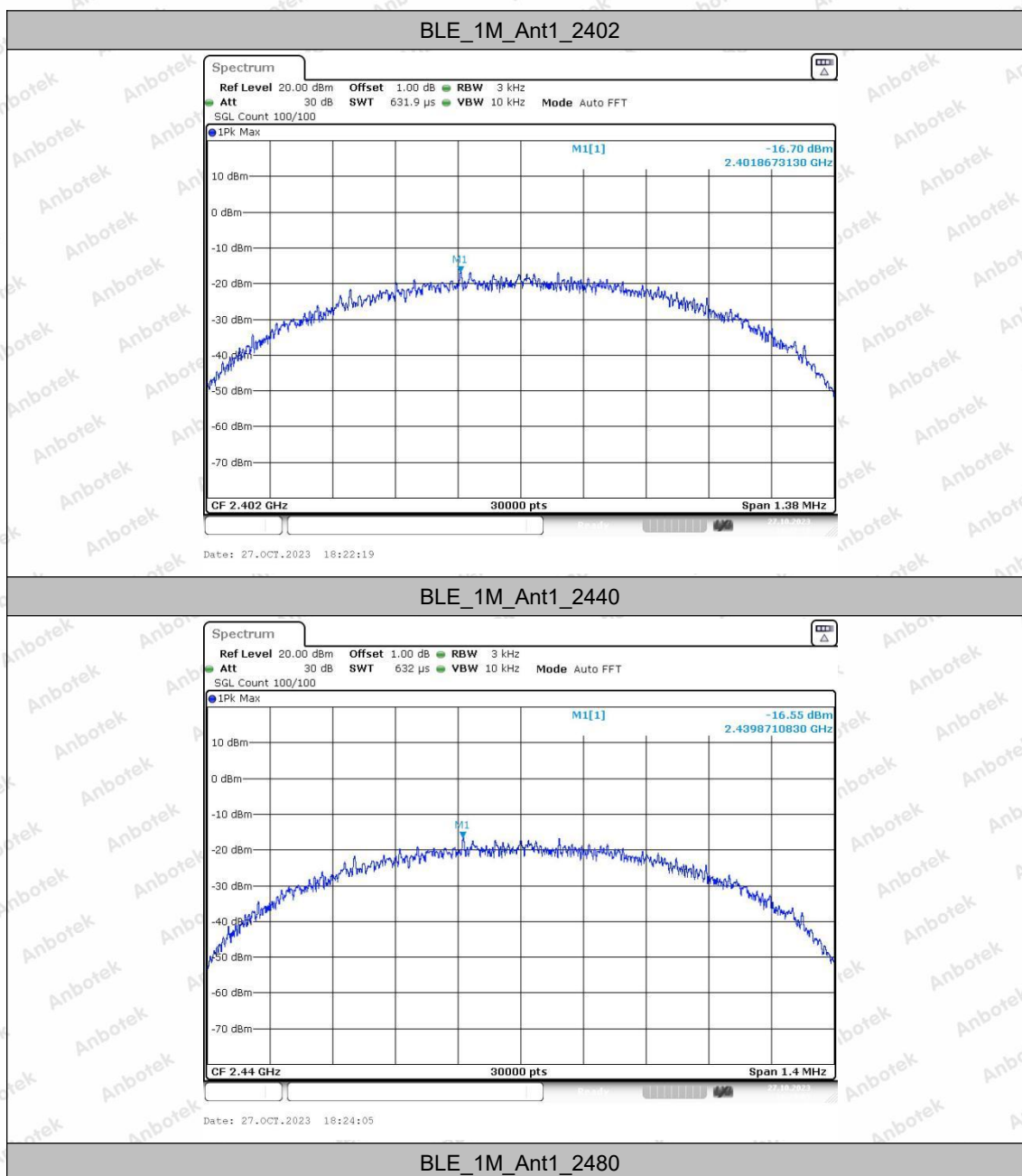
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.70	≤8.00	PASS
		2440	-16.55	≤8.00	PASS
		2480	-16.72	≤8.00	PASS
BLE_2M	Ant1	2402	-19.75	≤8.00	PASS
		2440	-19.73	≤8.00	PASS
		2480	-19.79	≤8.00	PASS



Test Graphs



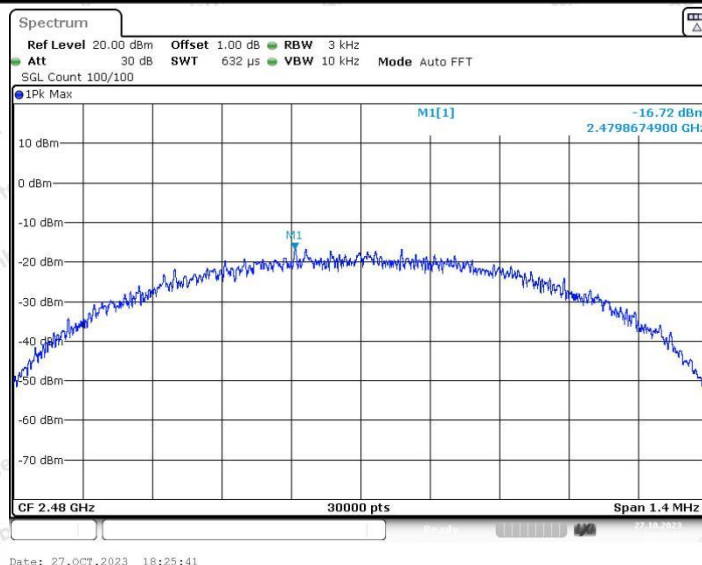
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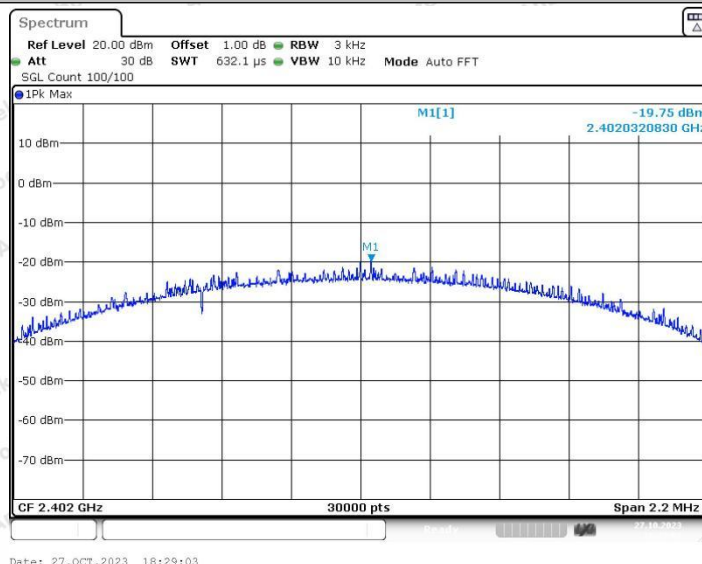


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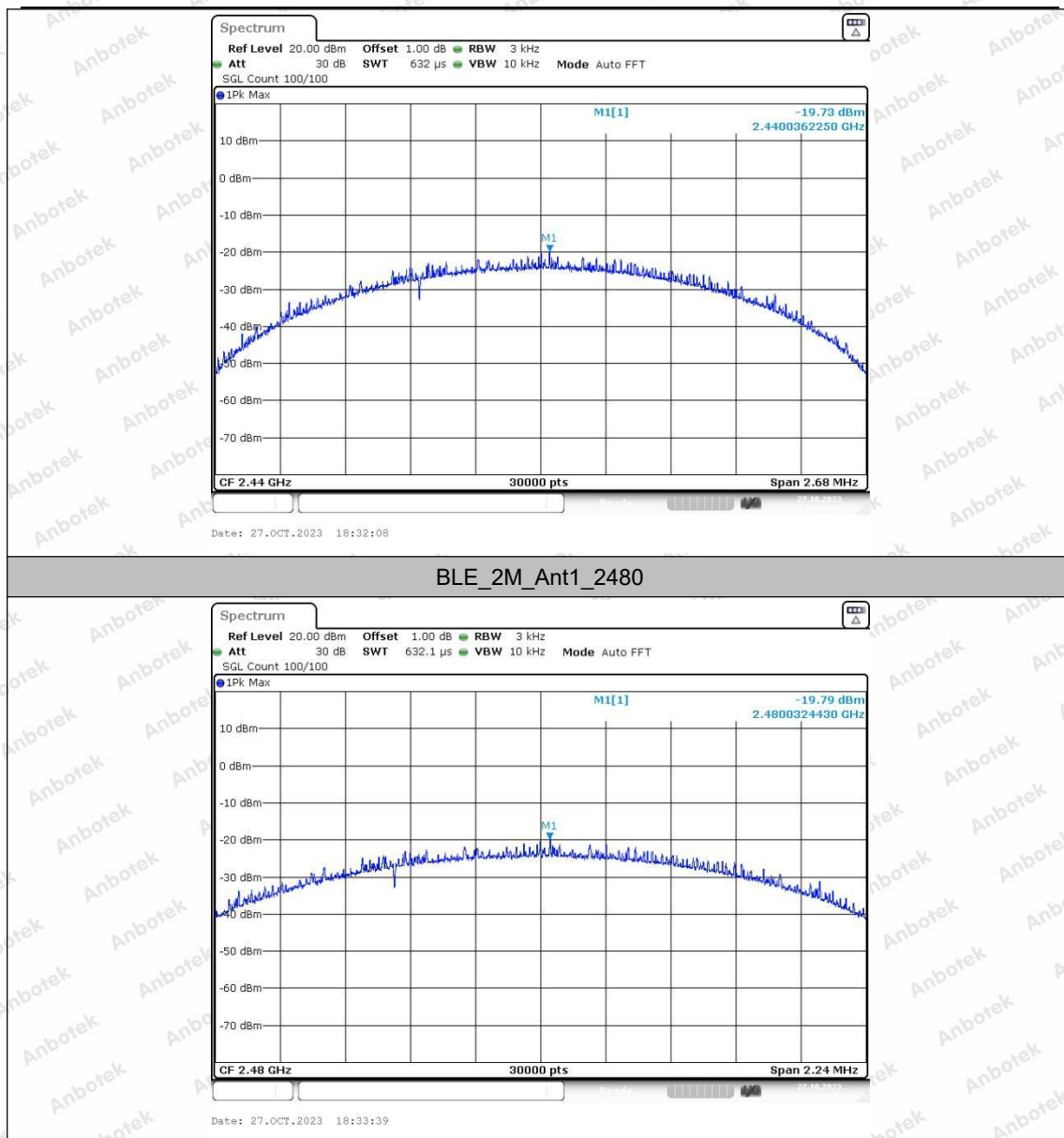


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.65	-55.99	≤-22.65	PASS
		High	2480	-1.15	-56.88	≤-21.15	PASS
BLE_2M	Ant1	Low	2402	-2.00	-34.19	≤-22	PASS
		High	2480	-3.67	-56.86	≤-23.67	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	-3.64	-3.64	---	PASS
			30~1000	-3.64	-60.38	≤-23.64	PASS
			1000~26500	-3.64	-52.86	≤-23.64	PASS
		2440	Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-59.92	≤-22.87	PASS
			1000~26500	-2.87	-52.3	≤-22.87	PASS
		2480	Reference	-2.76	-2.76	---	PASS
			30~1000	-2.76	-60.83	≤-22.76	PASS
			1000~26500	-2.76	-49.73	≤-22.76	PASS
BLE_2M	Ant1	2402	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-61.03	≤-25.11	PASS
			1000~26500	-5.11	-56.96	≤-25.11	PASS
		2440	Reference	-4.75	-4.75	---	PASS
			30~1000	-4.75	-60.79	≤-24.75	PASS
			1000~26500	-4.75	-51.95	≤-24.75	PASS
		2480	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-61.23	≤-25.97	PASS
			1000~26500	-5.97	-49.55	≤-25.97	PASS

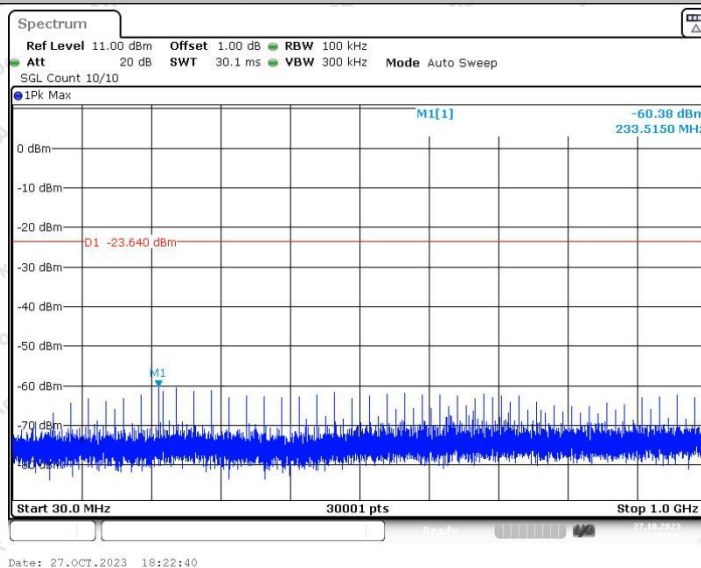


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

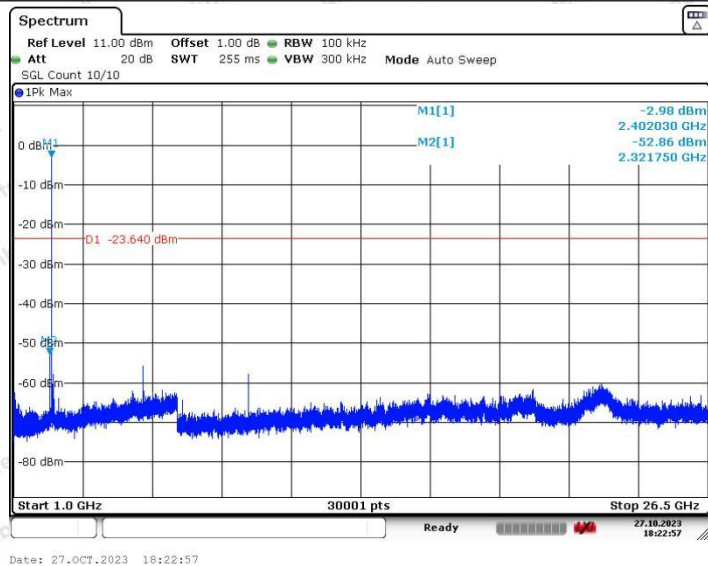
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

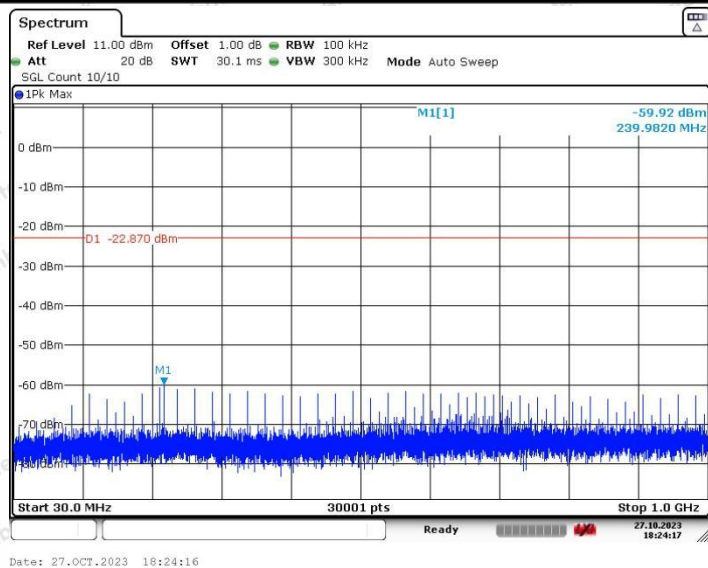
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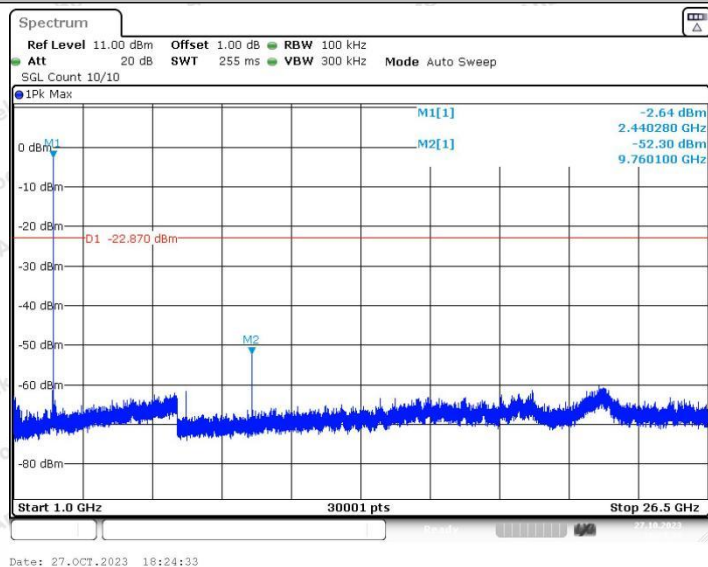


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

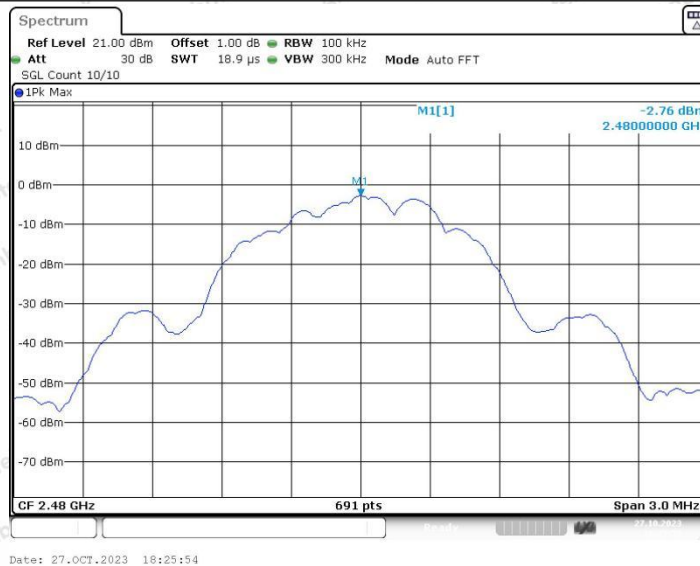
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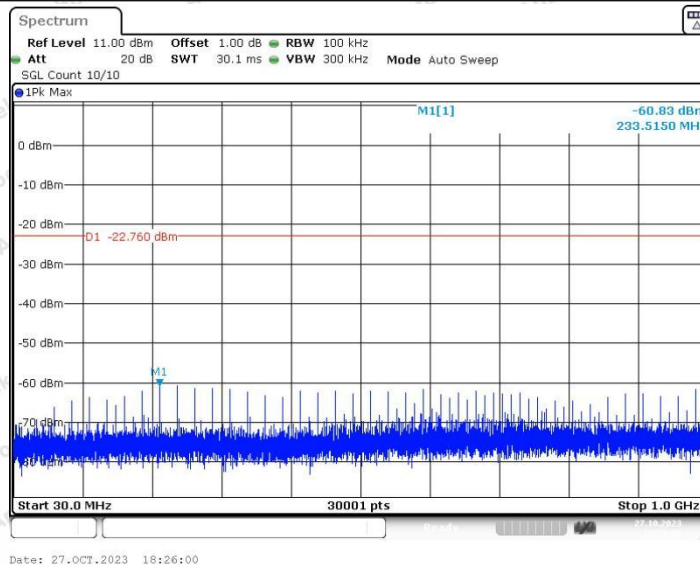


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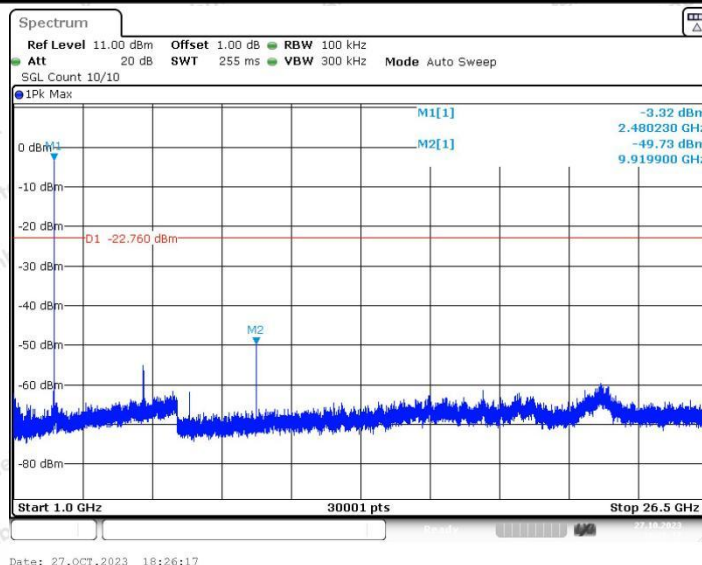


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



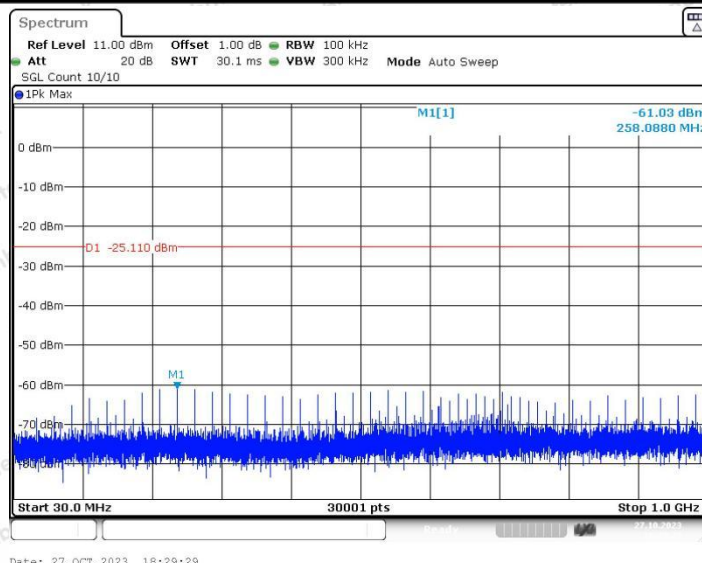


BLE_2M_Ant1_2402_0~Reference

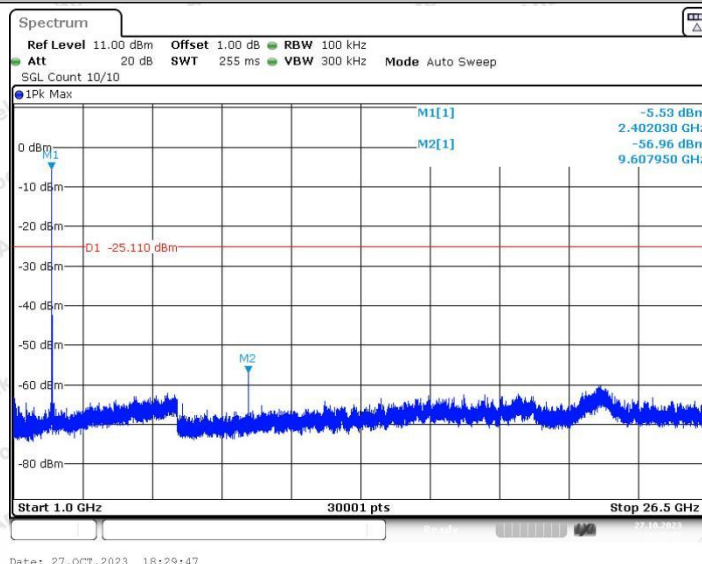


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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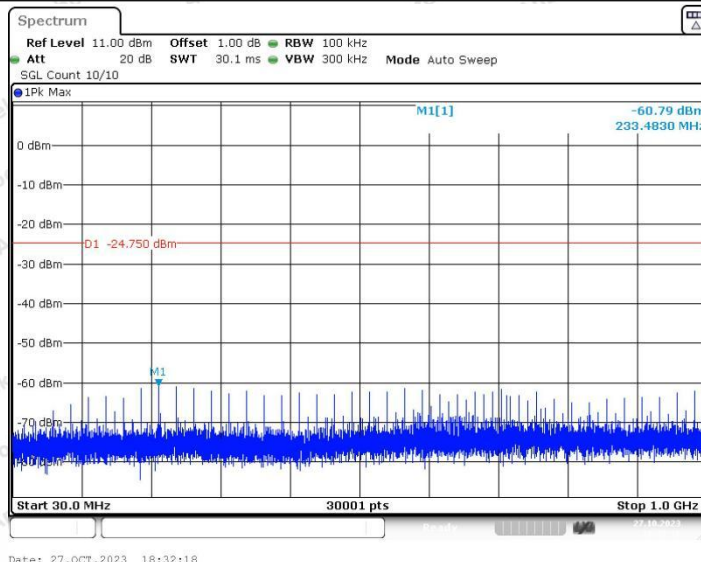


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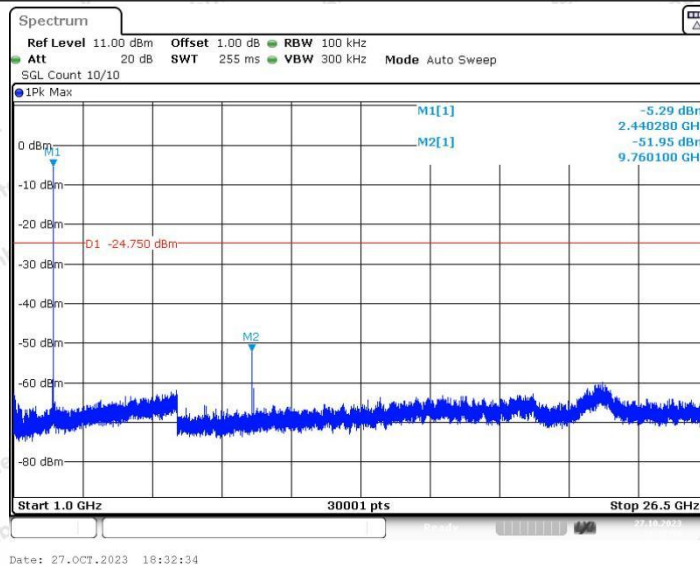


BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



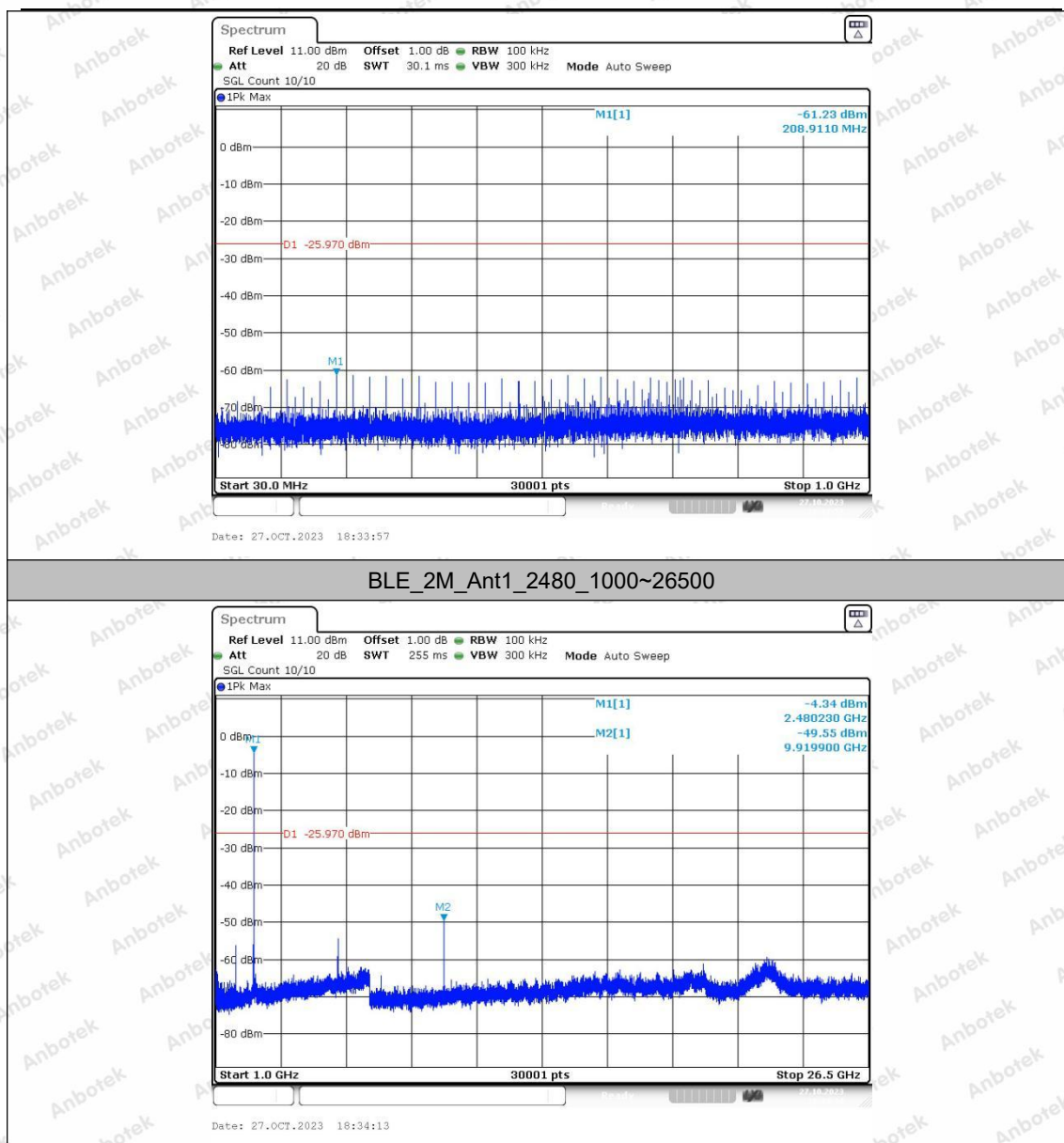


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



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Appendix G: Duty Cycle

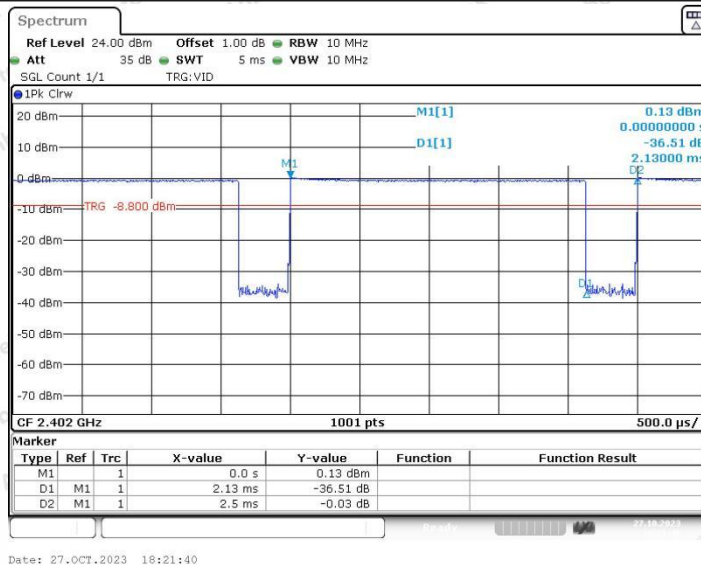
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.07	1.25	85.60	0.68
		2440	1.07	1.25	85.60	0.68
		2480	1.07	1.25	85.60	0.68

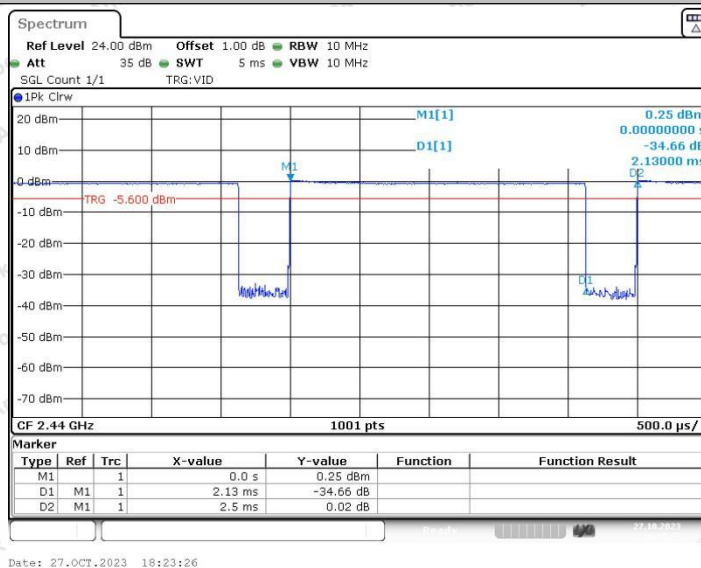


Test Graphs

BLE_1M_Ant1_2402

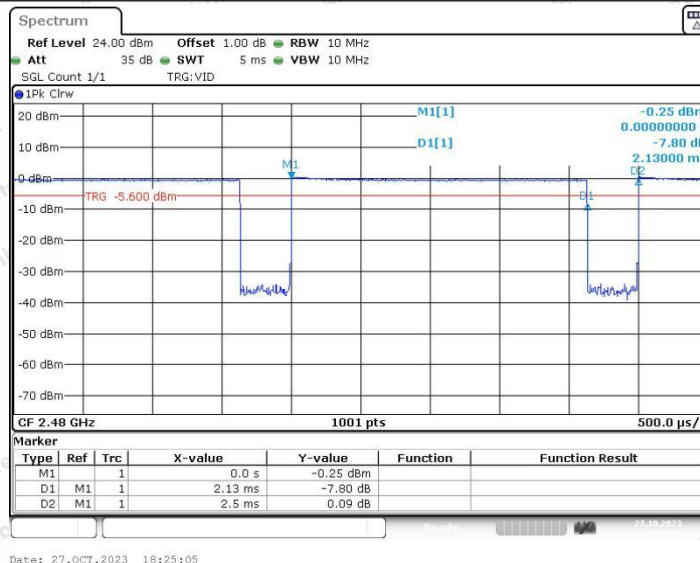


BLE_1M_Ant1_2440

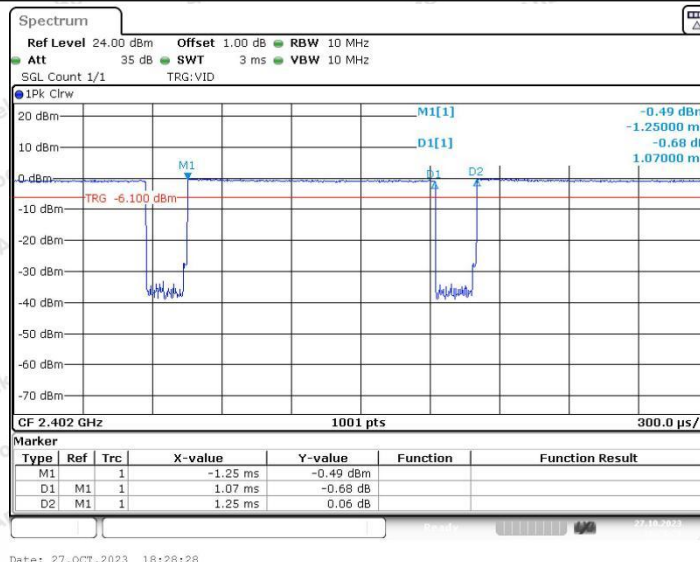


BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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