

Appendix Test Data

Report No.:	18220WC30215401	Test Sample No.:	1-2-2
Start Test Date:	2023.10.16	Finish Test Date:	2023.10.18
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	48.8%
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	0.66	2401.67	2402.33	0.5	PASS
		2440	0.67	2439.67	2440.34	0.5	PASS
		2480	0.67	2479.67	2480.34	0.5	PASS



Test Graphs



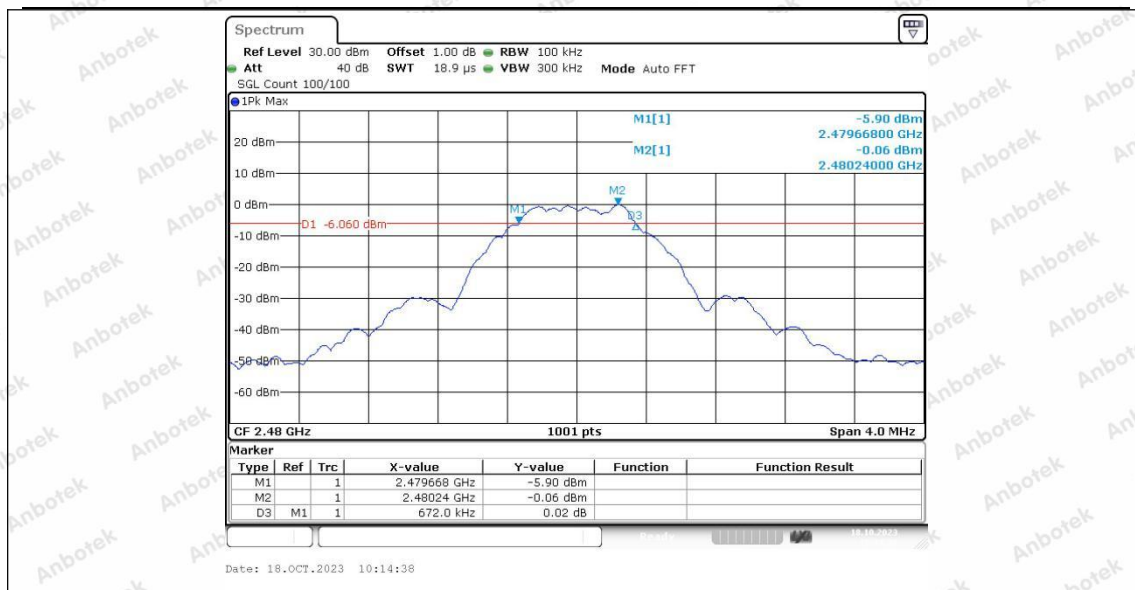
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Appendix B: Occupied Channel Bandwidth

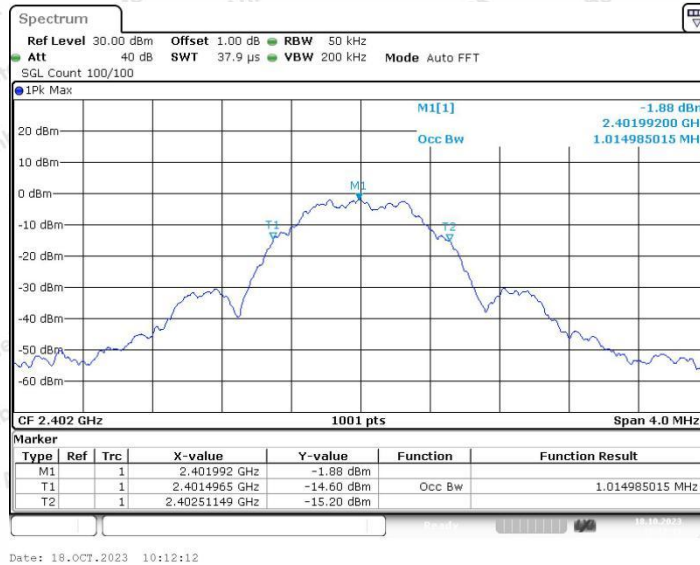
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.015	2401.4965	2402.5115
		2440	1.019	2439.4965	2440.5155
		2480	1.015	2479.4965	2480.5115



Test Graphs

BLE_1M_Ant1_2402

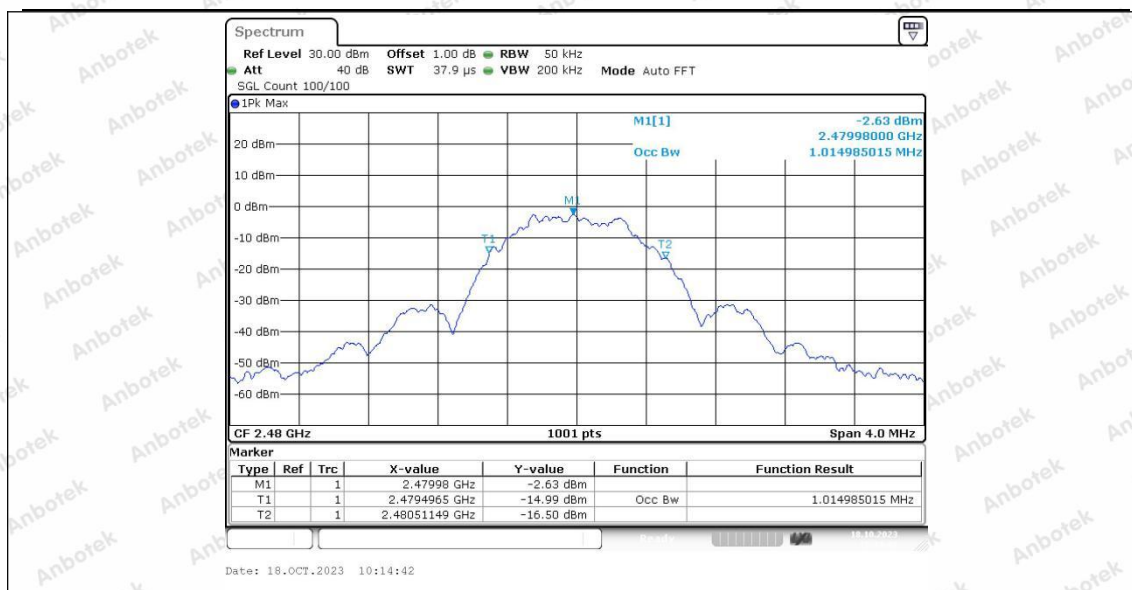


BLE_1M_Ant1_2440



BLE_1M_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	1.97	≤30	PASS
		2440	1.63	≤30	PASS
		2480	0.94	≤30	PASS



Test Graphs Peak



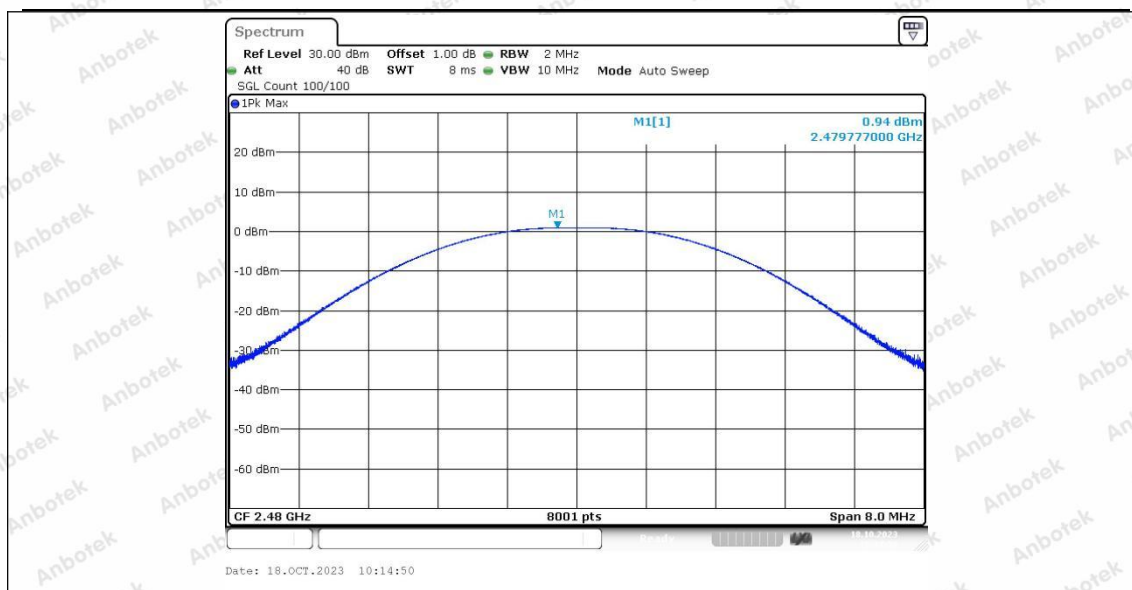
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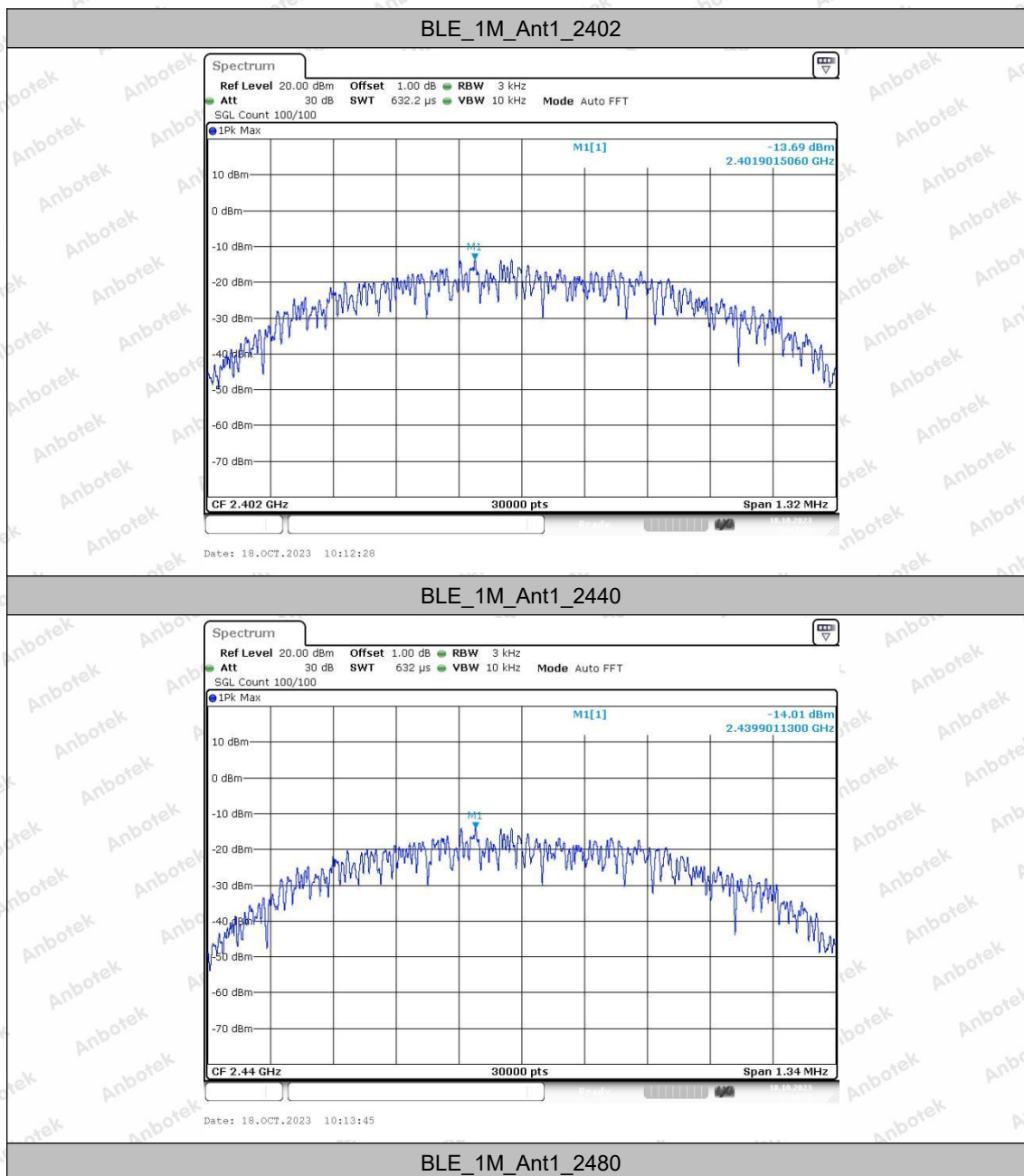
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.69	≤8.00	PASS
		2440	-14.01	≤8.00	PASS
		2480	-14.77	≤8.00	PASS



Test Graphs



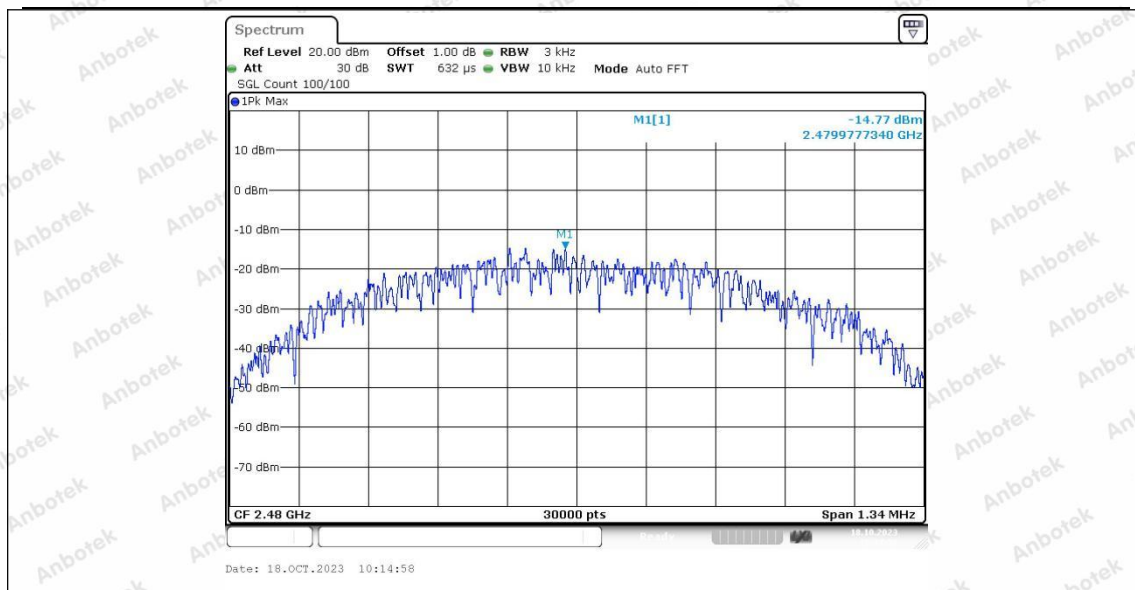
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.84	-57.59	≤-19.16	PASS
		High	2480	0.12	-56.6	≤-19.88	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	1.02	1.02	---	PASS
			30~1000	1.02	-68.73	≤-18.98	PASS
			1000~26500	1.02	-60.2	≤-18.98	PASS
		2440	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-67.39	≤-20.58	PASS
			1000~26500	-0.58	-47.85	≤-20.58	PASS
		2480	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.7	≤-20.41	PASS
			1000~26500	-0.41	-60.32	≤-20.41	PASS

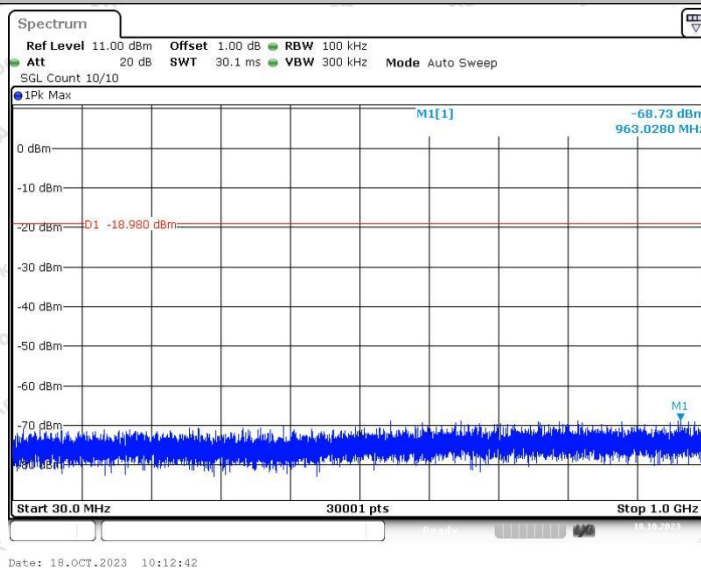


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

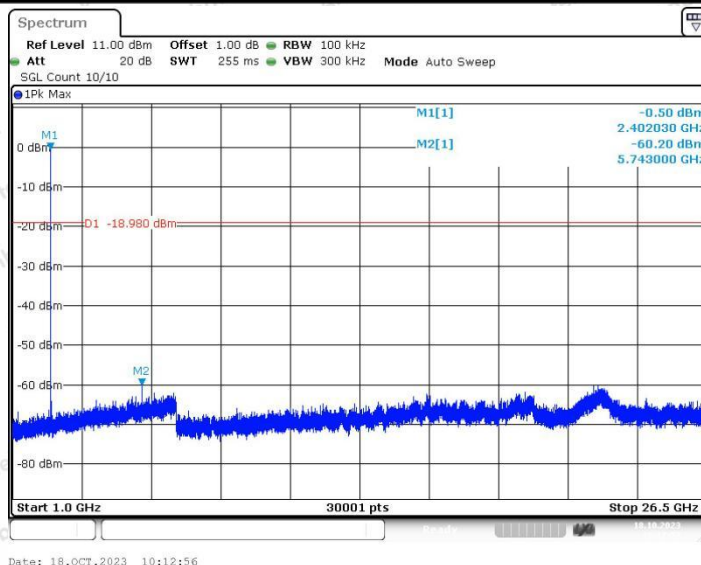
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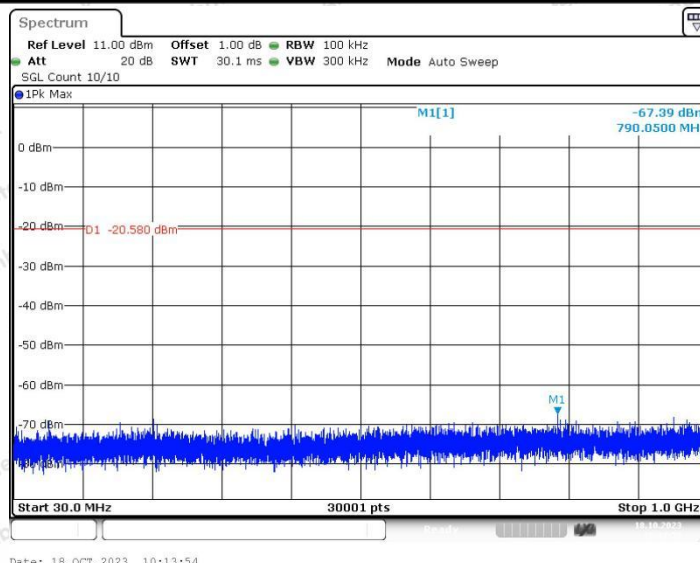


BLE_1M_Ant1_2440_0~Reference

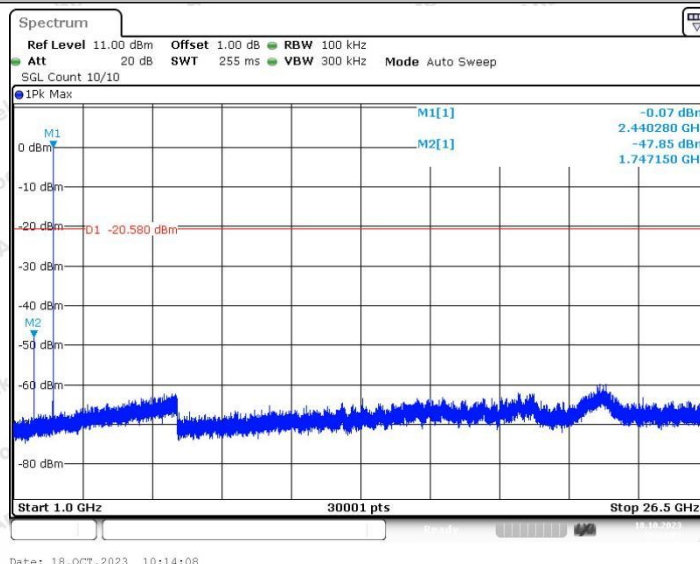


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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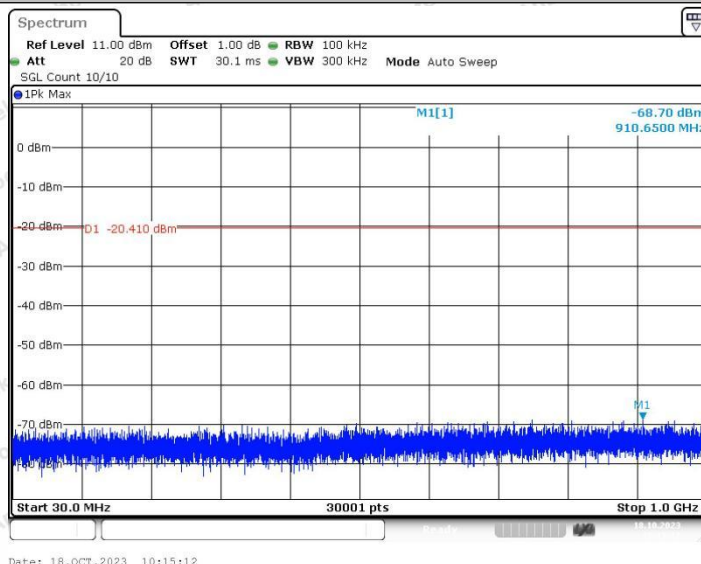


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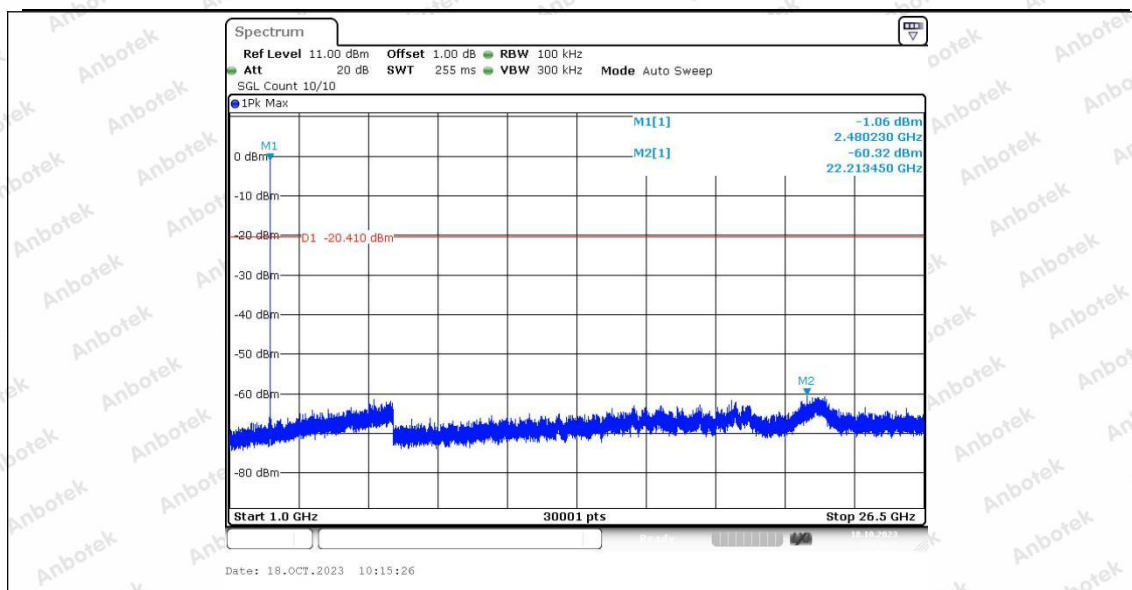


BLE	1M	Ant1	2480	30~1000
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BLE	1M	Ant1	2480	1000~26500
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Appendix G: Duty Cycle

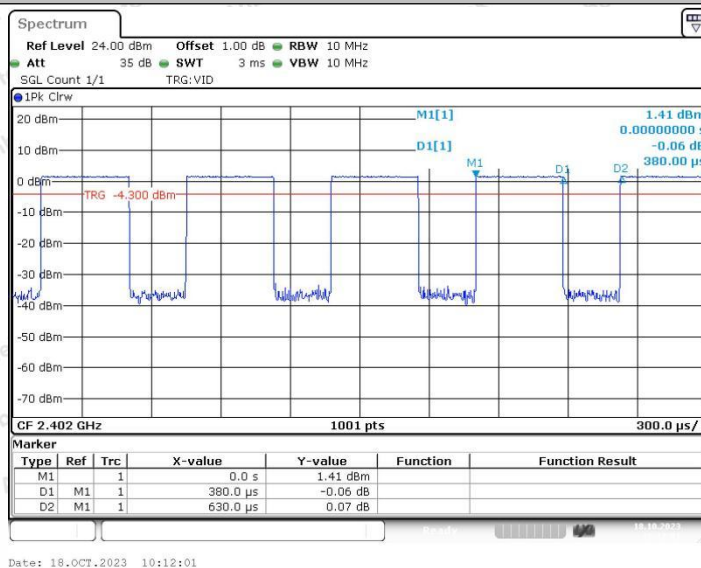
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
		2440	0.38	0.62	61.29	2.13
		2480	0.38	0.62	61.29	2.13

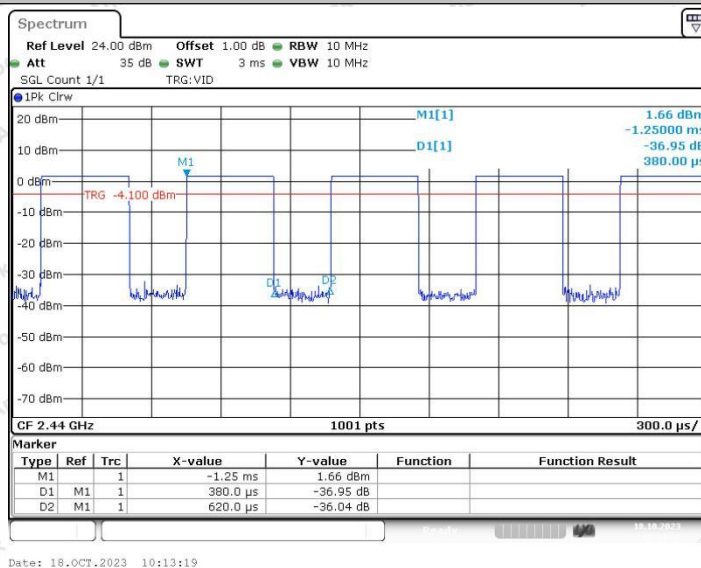


Test Graphs

BLE_1M_Ant1_2402

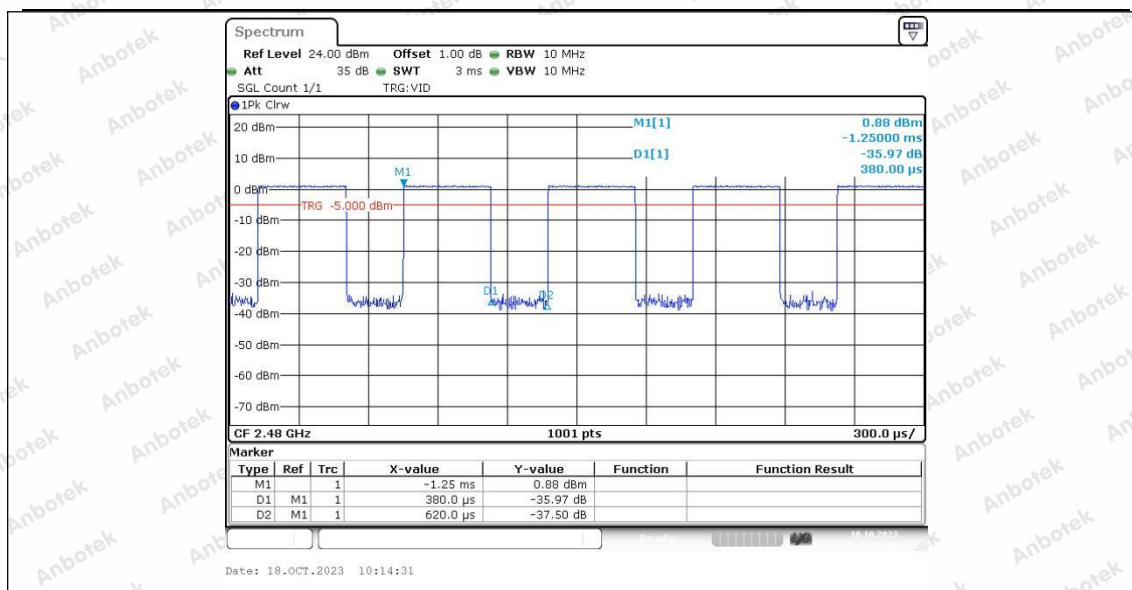


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





---End---

