

Appendix Test Data

Report No.:	18220WC30225802	Test Sample No.:	1-2-2
Start Test Date:	2023.11.06	Finish Test Date:	2023.11.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.5°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

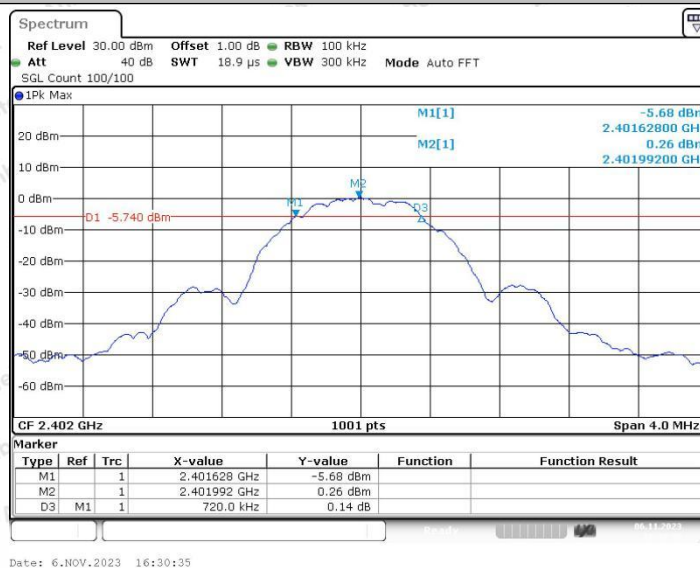
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.63	2402.35	0.5	PASS
		2440	0.66	2439.67	2440.33	0.5	PASS
		2480	0.67	2479.66	2480.33	0.5	PASS

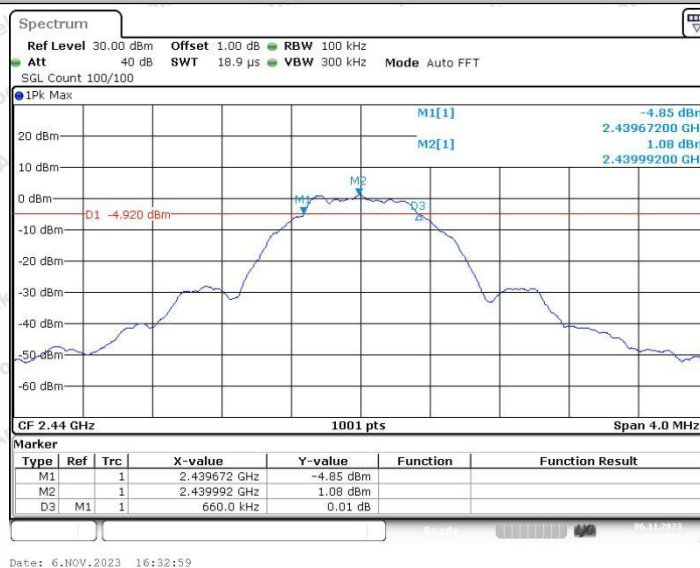


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

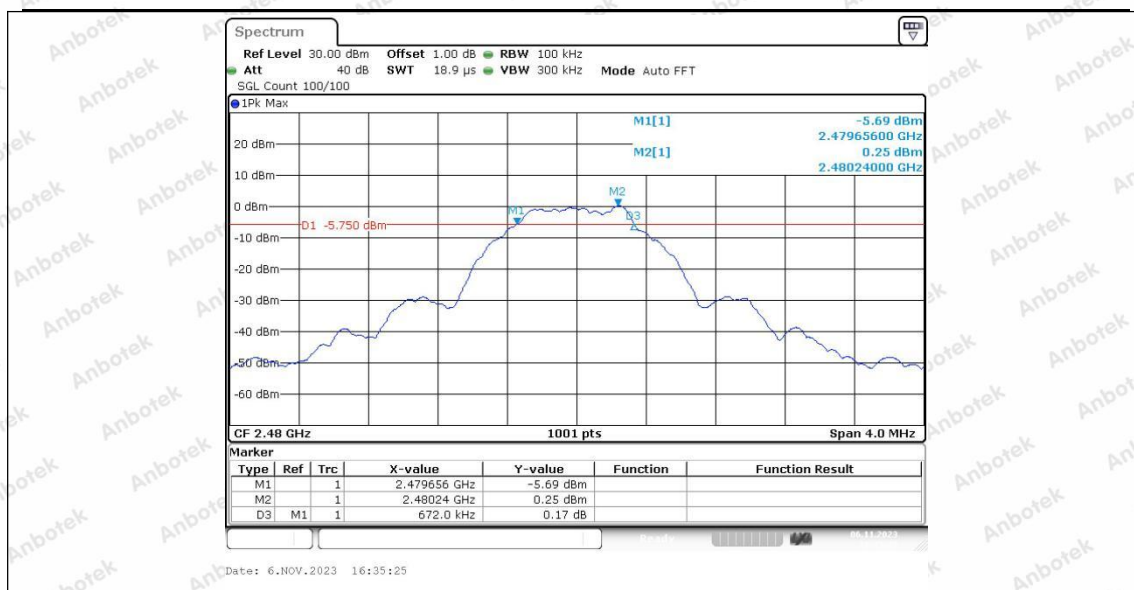
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Appendix B: Occupied Channel Bandwidth

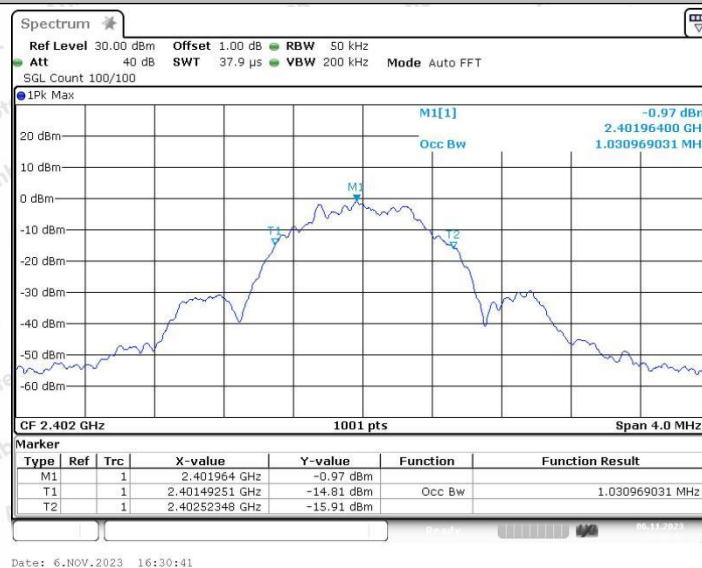
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.031	2401.4925	2402.5235
		2440	1.027	2439.4965	2440.5235
		2480	1.023	2479.4965	2480.5195



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

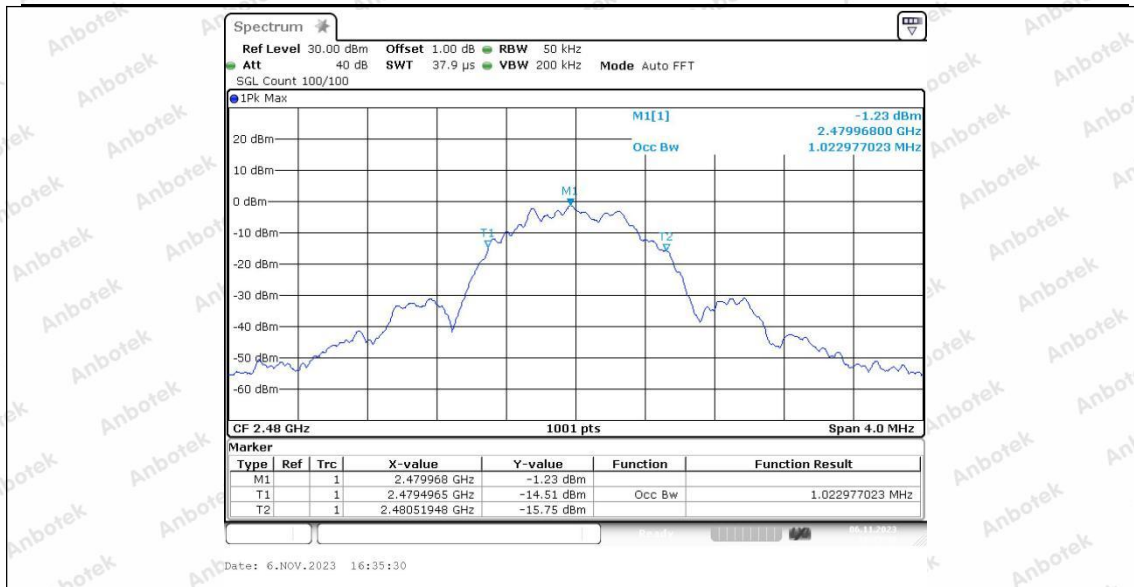
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Appendix C: Maximum conducted output power

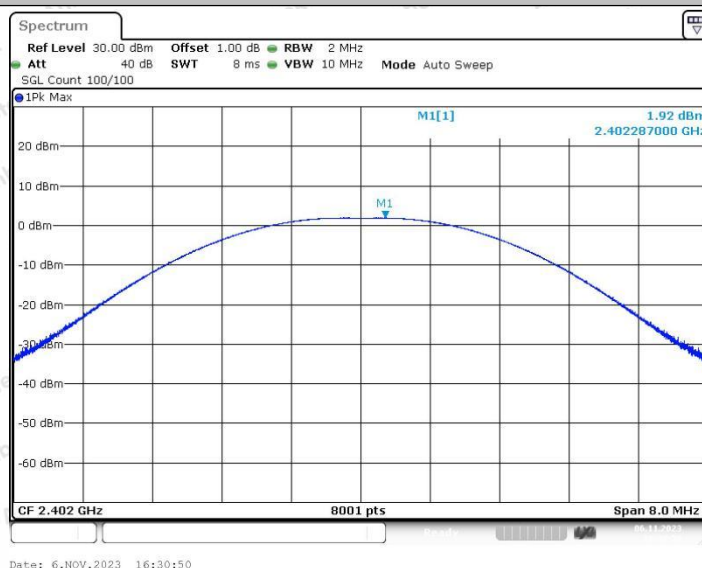
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.92	≤30	PASS
		2440	2.06	≤30	PASS
		2480	1.28	≤30	PASS

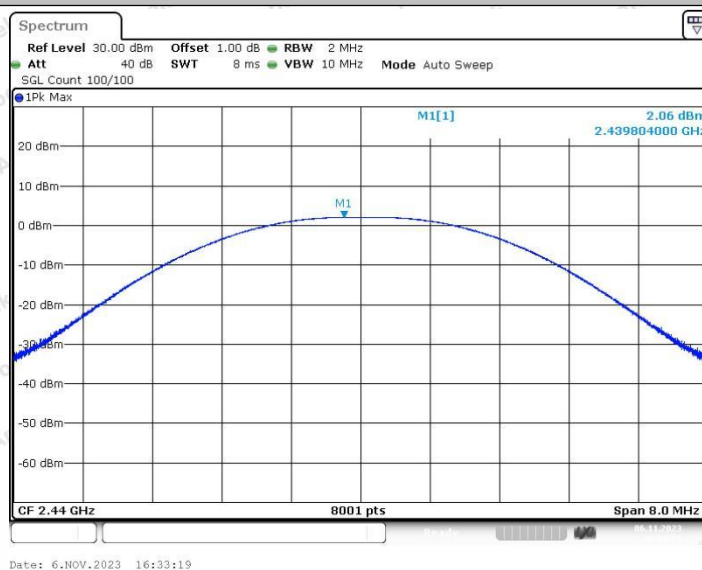


Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

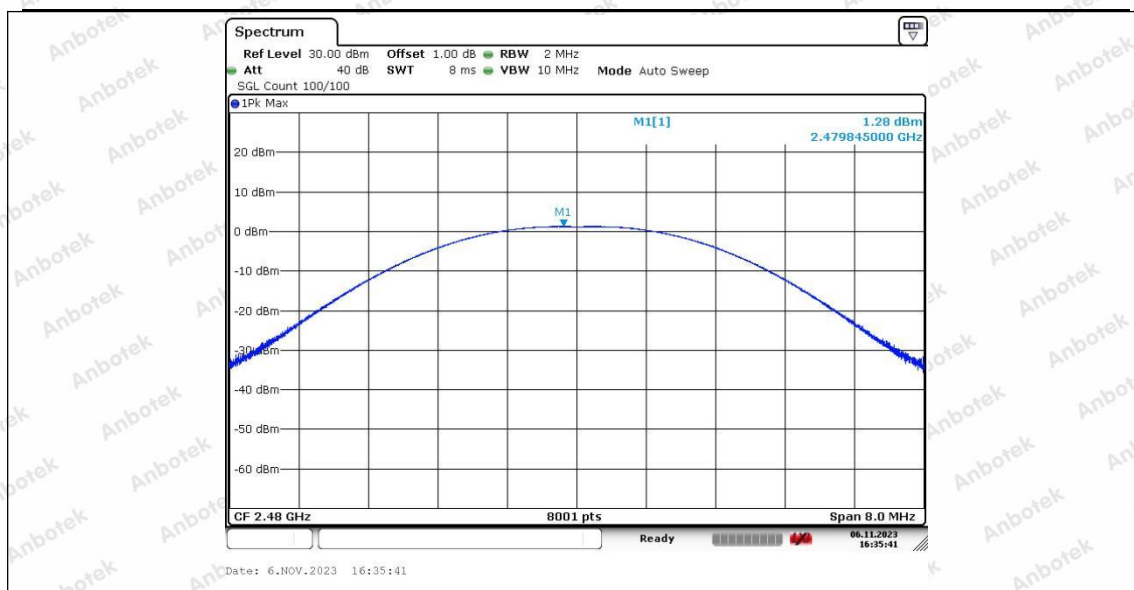
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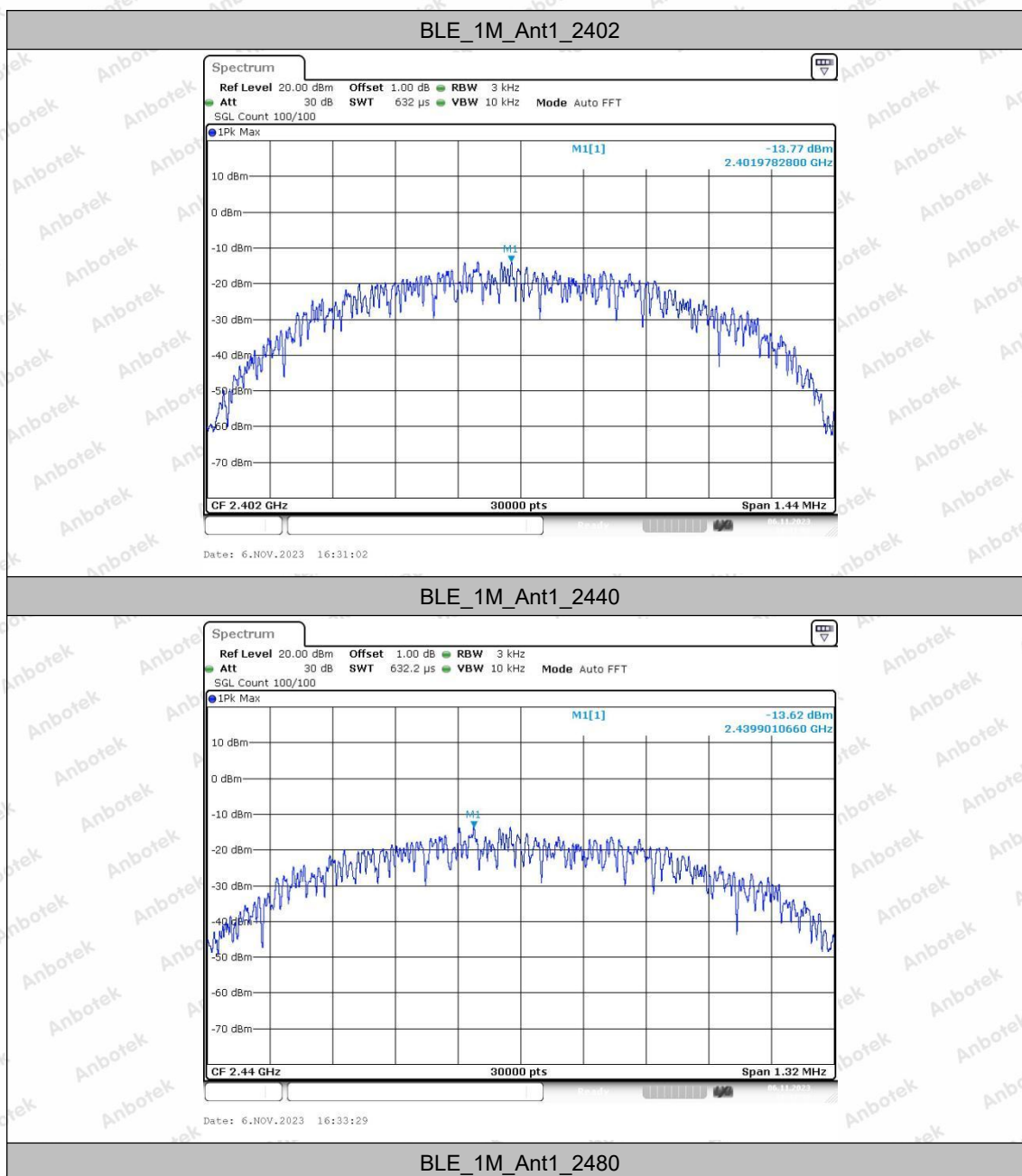
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.77	≤8.00	PASS
		2440	-13.62	≤8.00	PASS
		2480	-14.45	≤8.00	PASS



Test Graphs



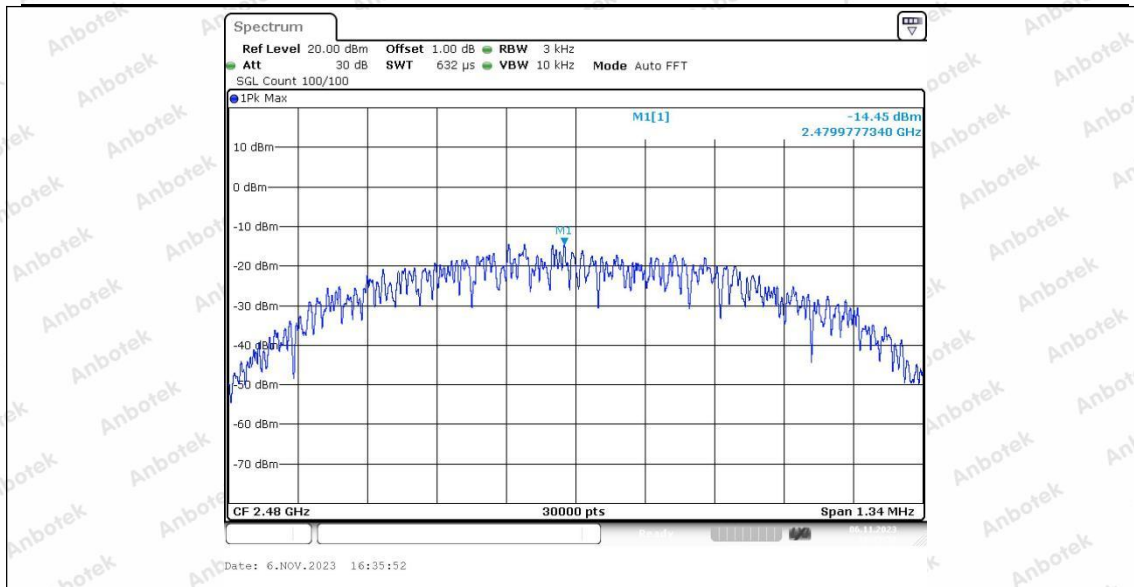
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.92	-57.86	≤-19.08	PASS
		High	2480	0.20	-56.56	≤-19.8	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	0.14	0.14	---	PASS
			30~1000	0.14	-68.62	≤-19.86	PASS
			1000~26500	0.14	-59.35	≤-19.86	PASS
		2440	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-68.72	≤-19.45	PASS
			1000~26500	0.55	-59.97	≤-19.45	PASS
		2480	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-68.66	≤-21.46	PASS
			1000~26500	-1.46	-60.32	≤-21.46	PASS

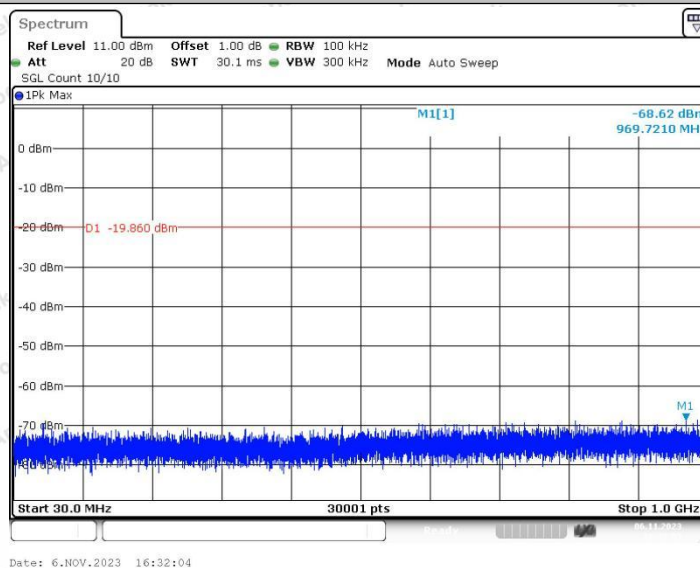


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

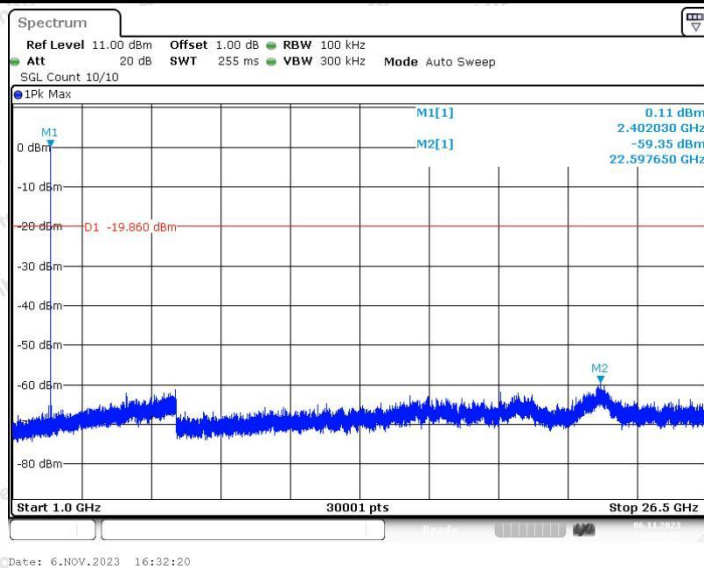
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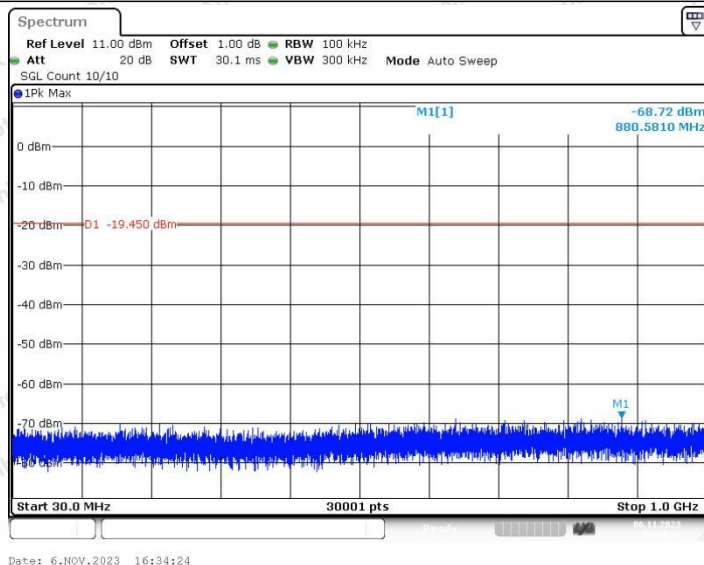




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

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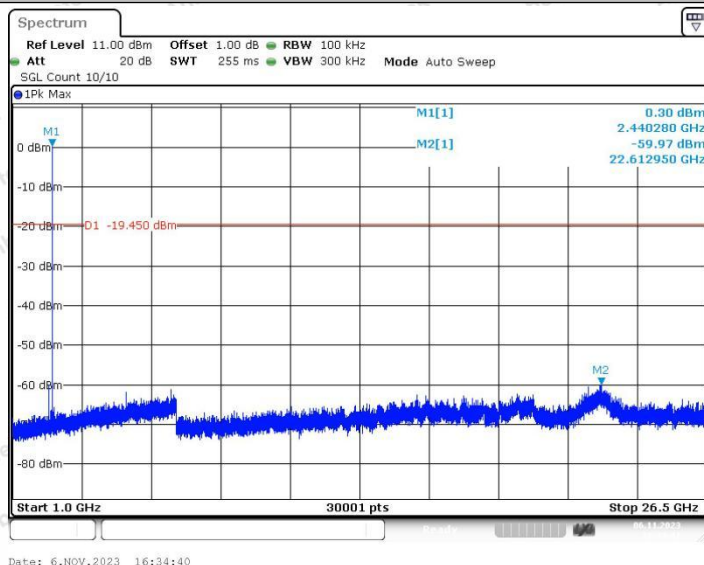
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

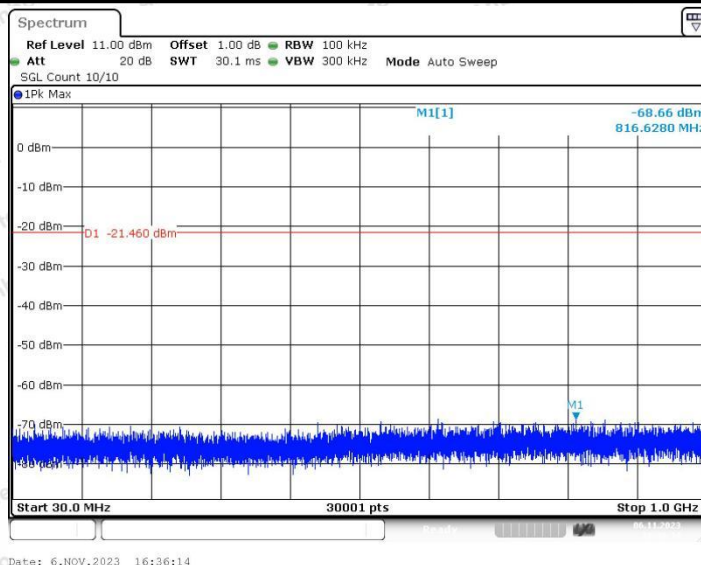
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

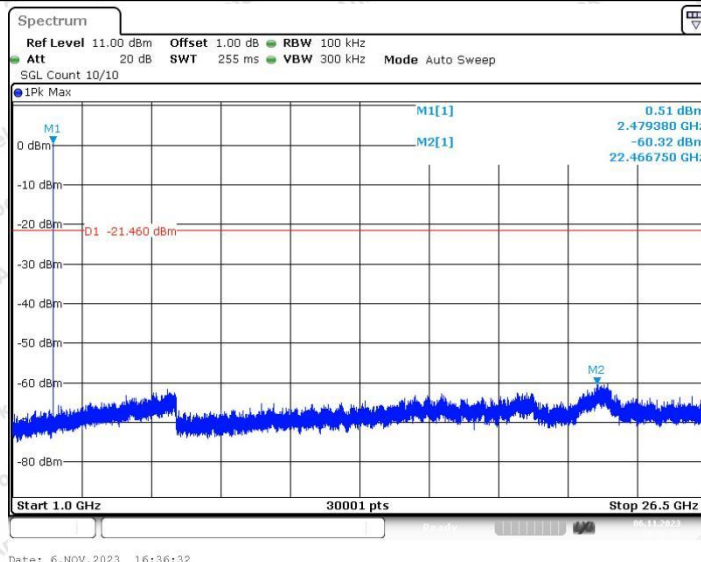


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BLE_1M_Ant1_2480_1000~26500



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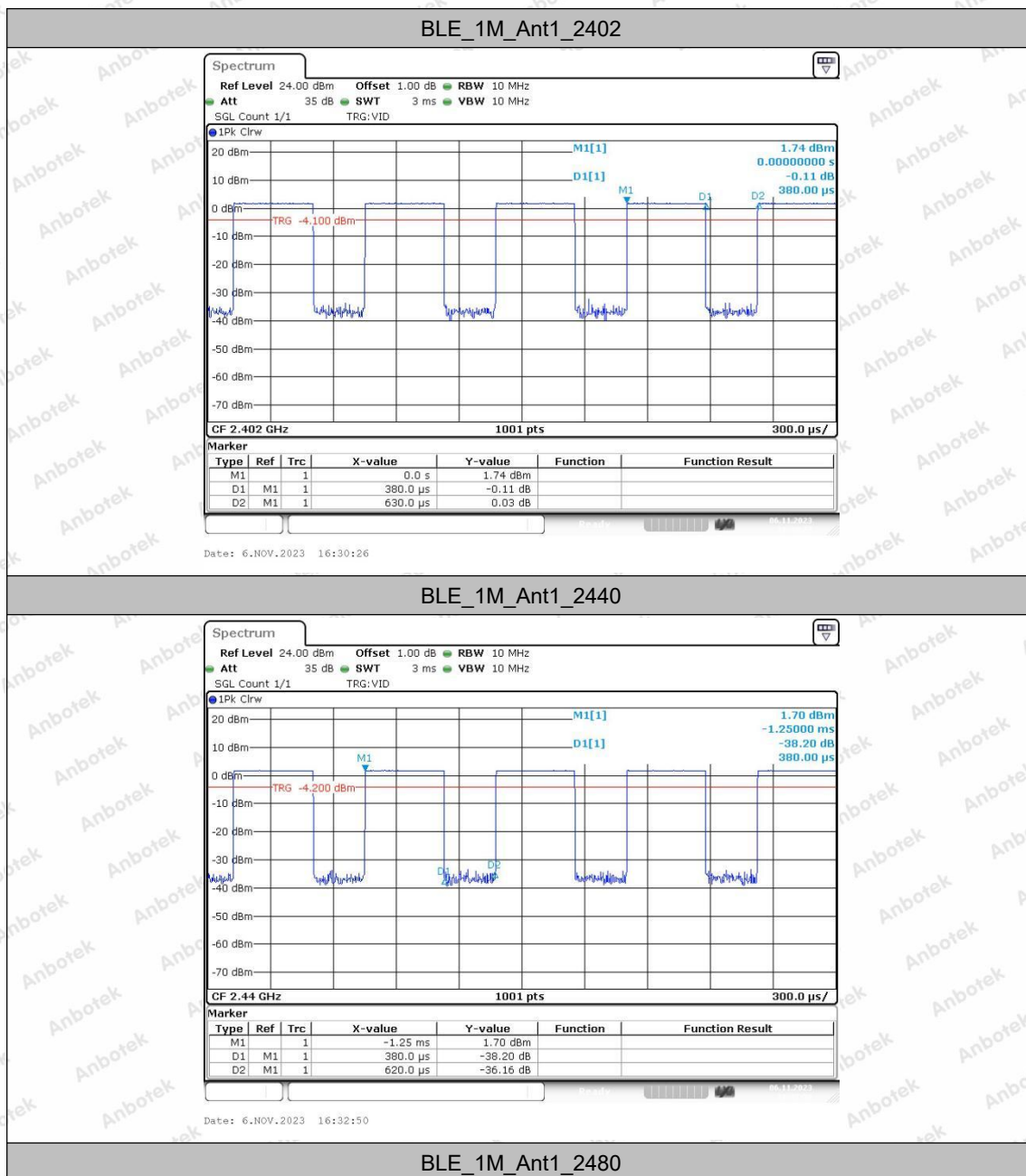
Appendix G: Duty Cycle

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



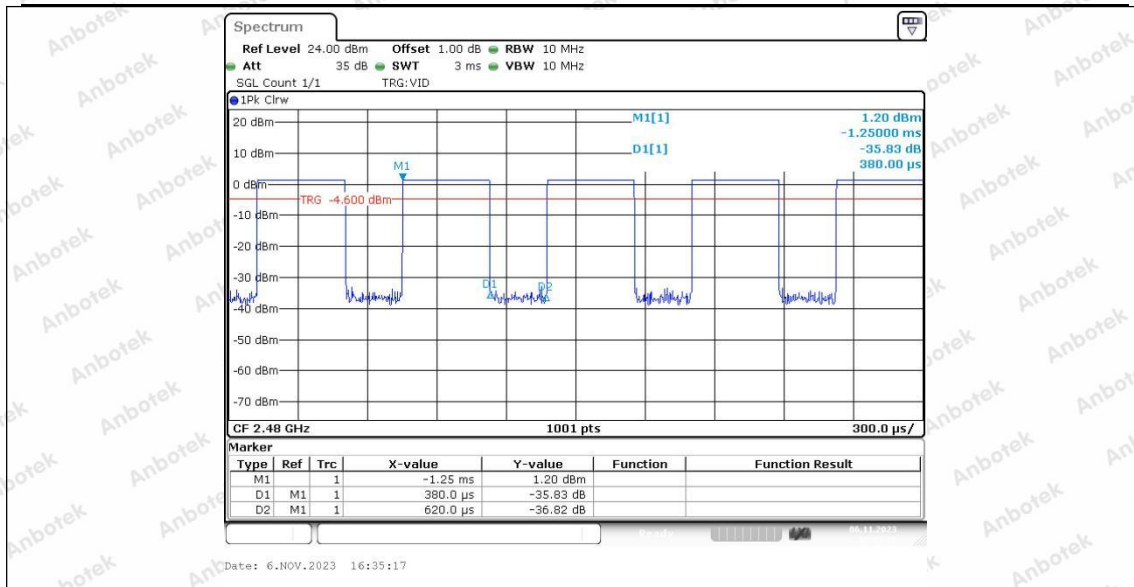
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