

Appendix Test Data

Report No.:	18220WC30044602	Test Sample No.:	1-2-2
Start Test Date:	2023.03.21	Finish Test Date:	2023.04.10
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.7°C	Relative Humidity:	43%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.664	2402.352	0.5	PASS
		2440	0.688	2439.644	2440.332	0.5	PASS
		2480	0.692	2479.644	2480.336	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	1.0273	2401.4990	2402.5263
		2440	1.0314	2439.4983	2440.5297
		2480	1.0342	2479.4964	2480.5306



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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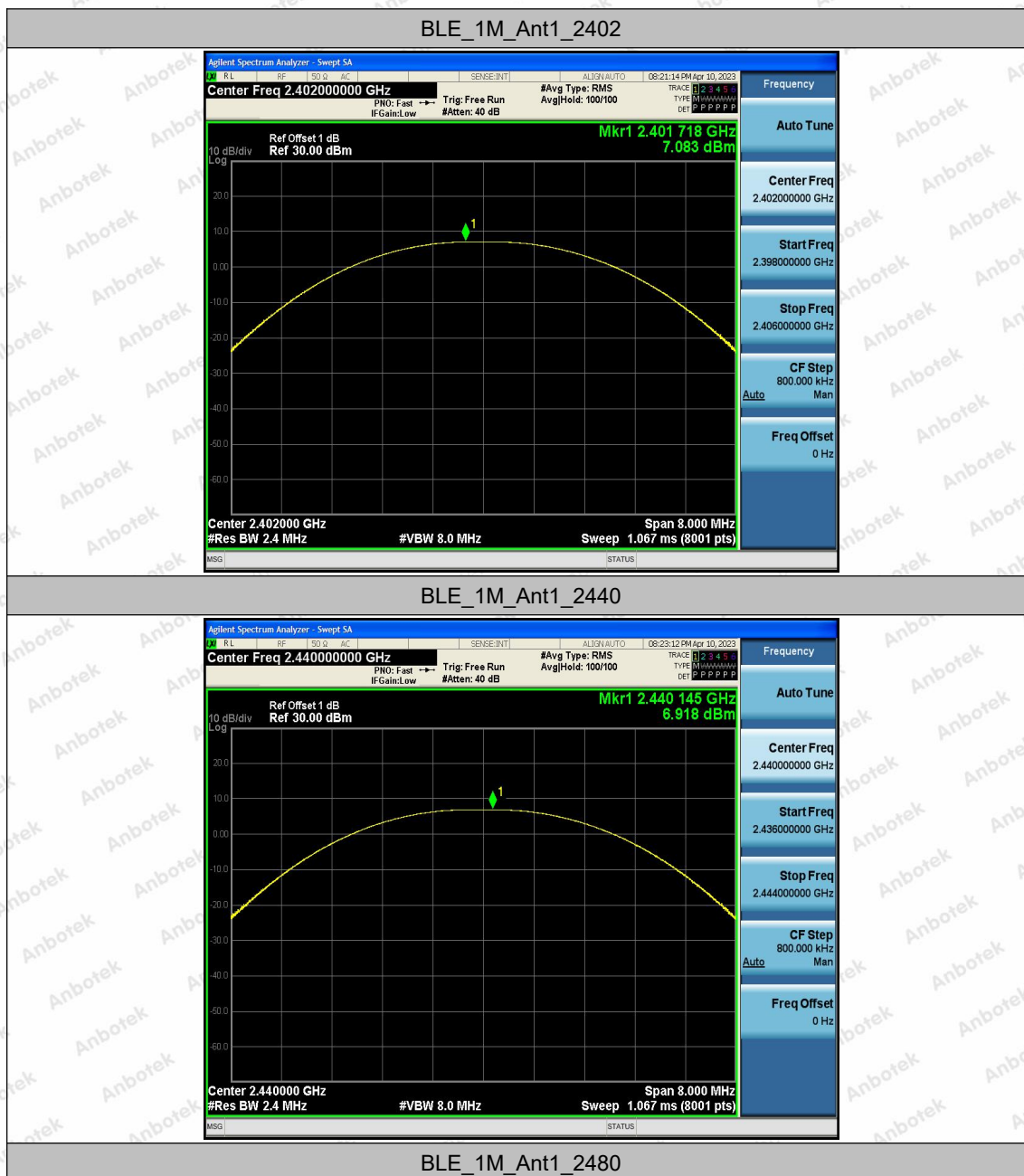
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.08	≤30	PASS
		2440	6.92	≤30	PASS
		2480	5.84	≤30	PASS



Test Graphs Peak



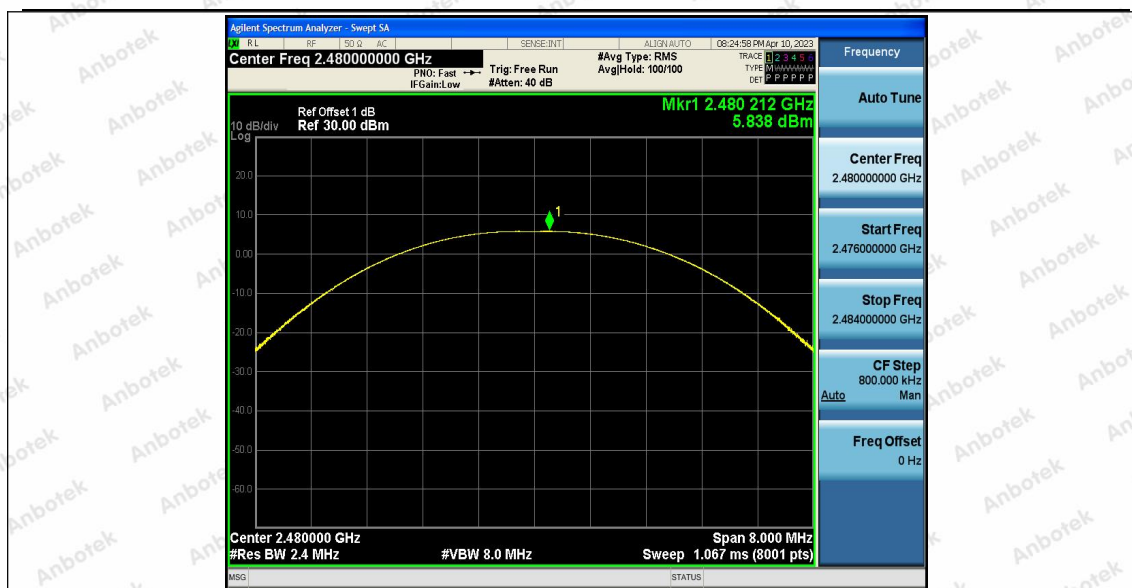
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.21	≤8.00	PASS
		2440	-8.25	≤8.00	PASS
		2480	-9.26	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

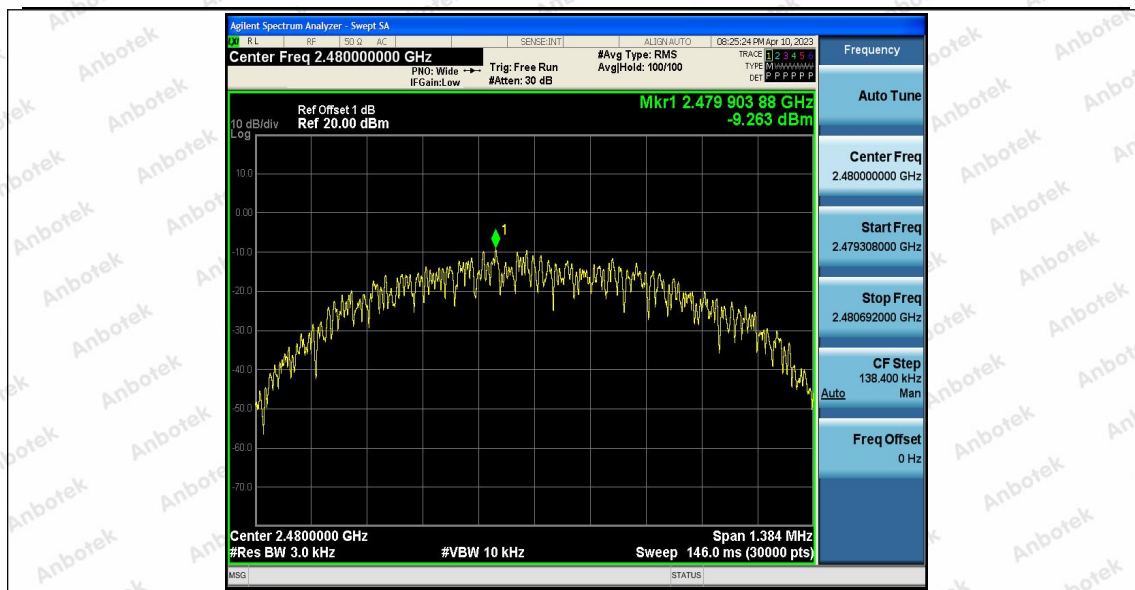
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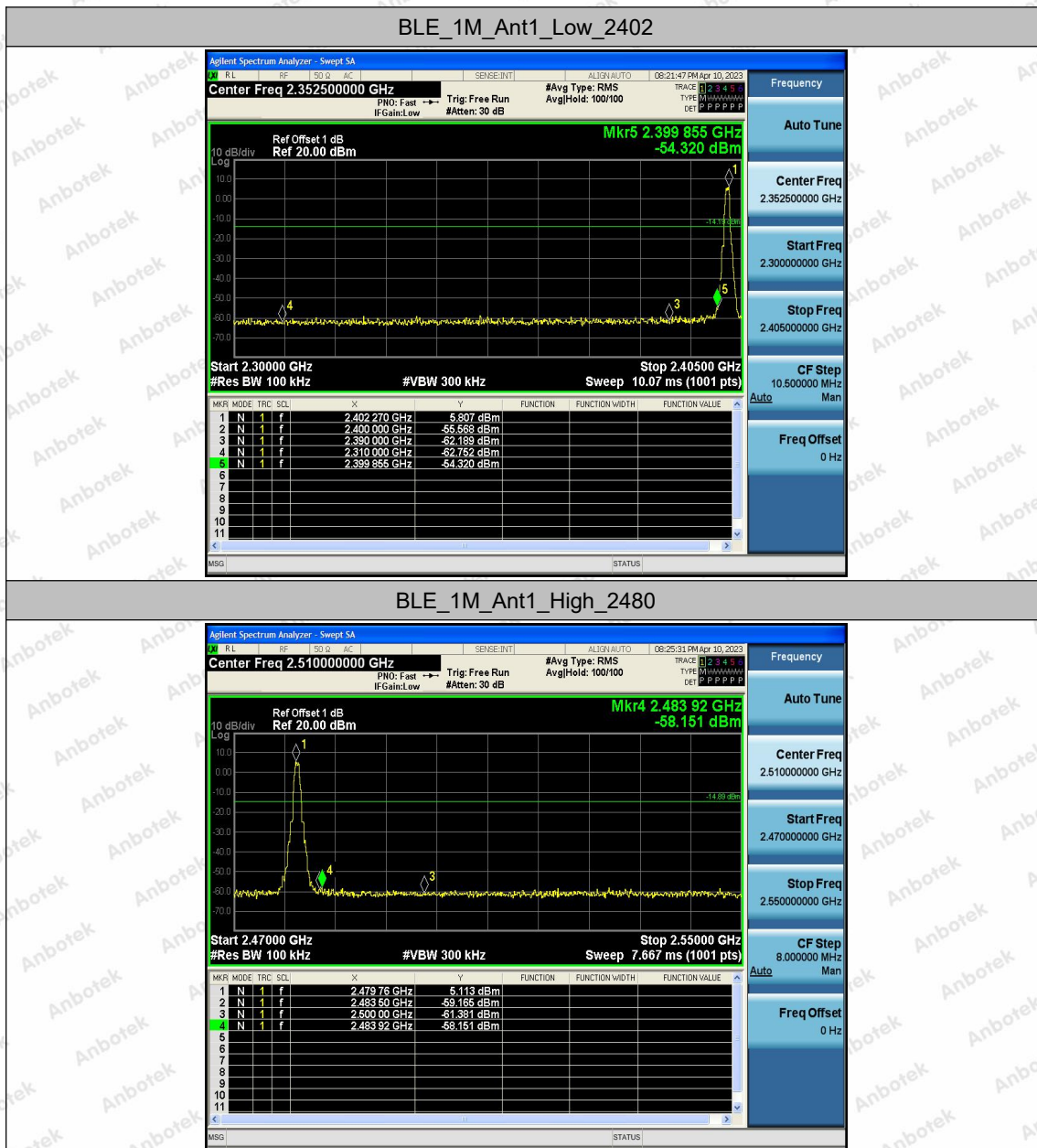
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.81	-54.32	≤-14.19	PASS
		High	2480	5.11	-58.15	≤-14.89	PASS



Test Graphs



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Appendix F: Conducted Spurious Emission

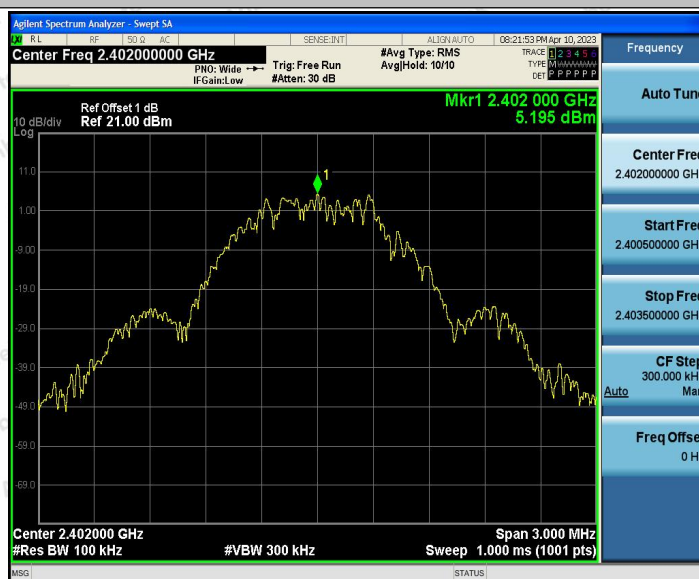
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-68.33	≤-14.8	PASS
			1000~26500	5.20	-54.57	≤-14.8	PASS
		2440	Reference	5.68	5.68	---	PASS
			30~1000	5.68	-69.37	≤-14.32	PASS
			1000~26500	5.68	-54.36	≤-14.32	PASS
		2480	Reference	4.45	4.45	---	PASS
			30~1000	4.45	-68.35	≤-15.55	PASS
			1000~26500	4.45	-54.62	≤-15.55	PASS

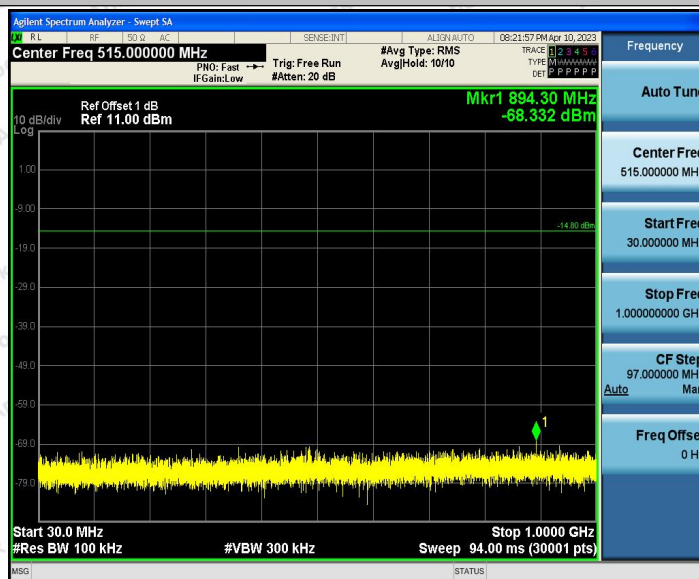


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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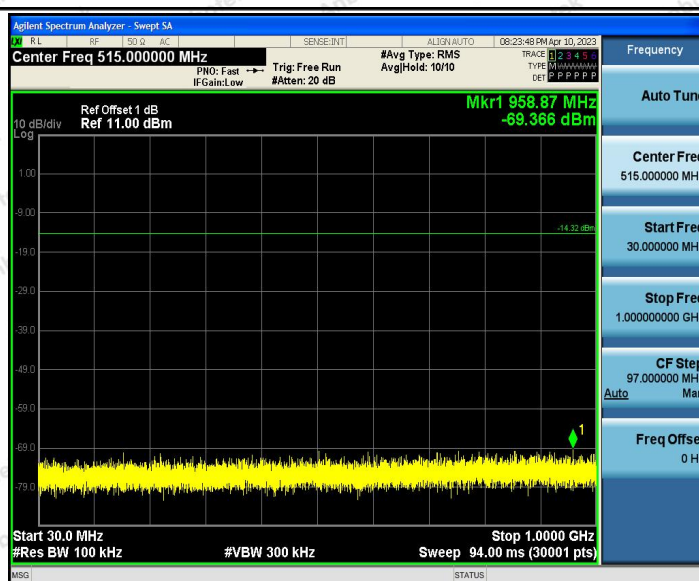
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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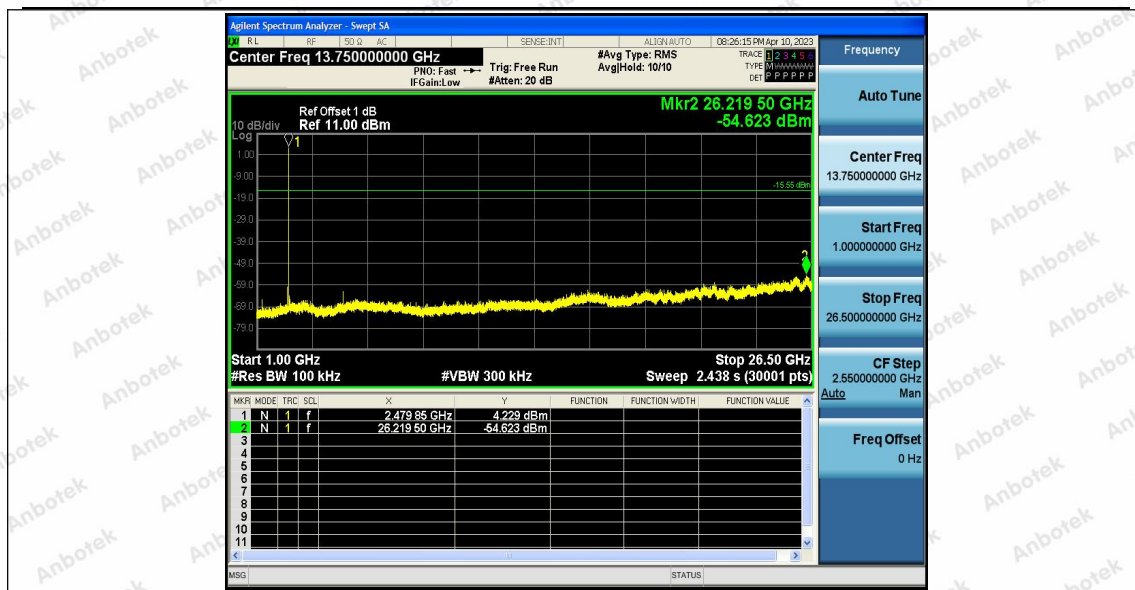
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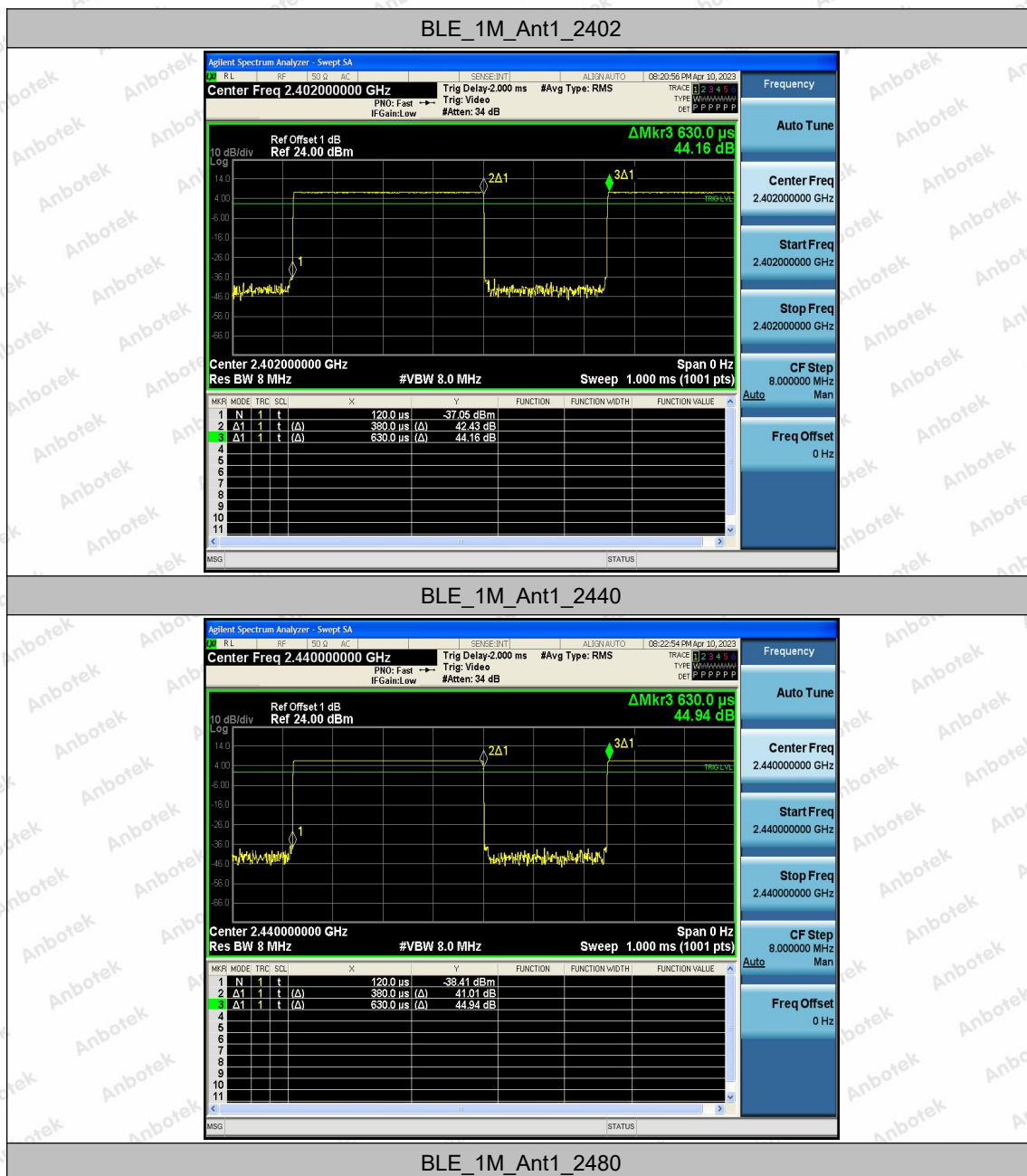
Appendix G: Duty Cycle

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	0.63	60.32	2.20
		2480	0.38	0.63	60.32	2.20



Test Graphs



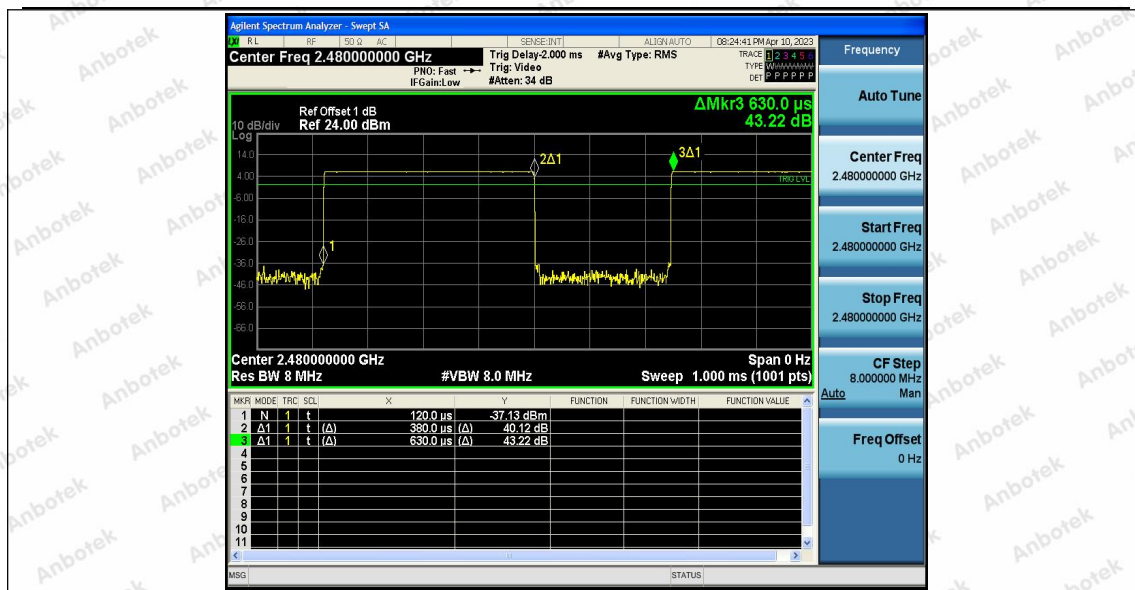
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