

Appendix Test Data

Report No.:	18220WC30020101	Test Sample No.:	1-2-2
Start Test Date:	2023.02.20	Finish Test Date:	2023.02.22
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	23.7°C	Relative Humidity:	46%
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	0.692	2401.636	2402.328	0.5	PASS
		2440	0.688	2439.636	2440.324	0.5	PASS
		2480	0.684	2479.644	2480.328	0.5	PASS





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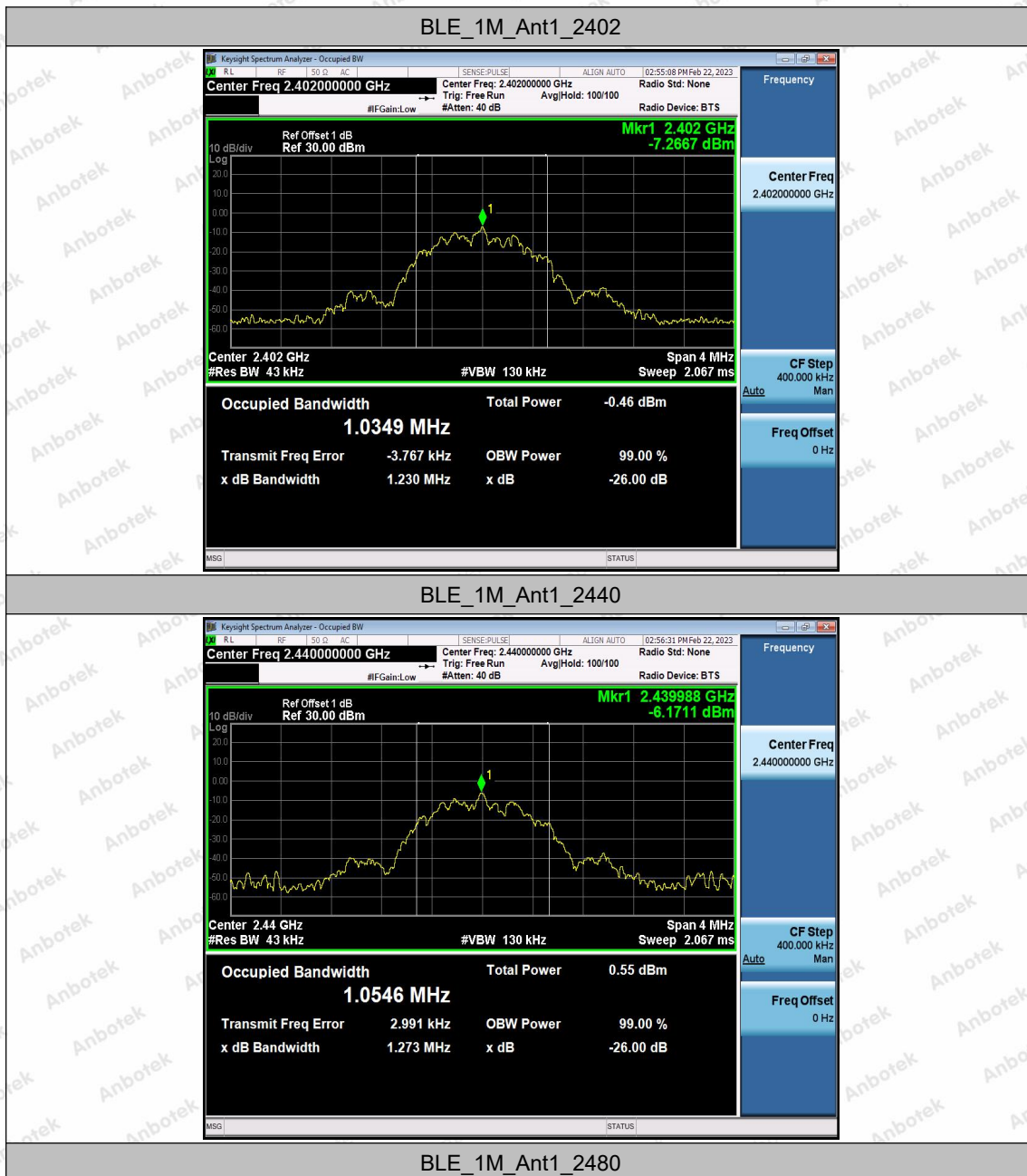
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0349	2401.4788	2402.5137
		2440	1.0546	2439.4757	2440.5303
		2480	1.0519	2479.4773	2480.5292



Test Graphs



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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	-6.18	≤30	PASS
		2440	-5.23	≤30	PASS
		2480	-4.14	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

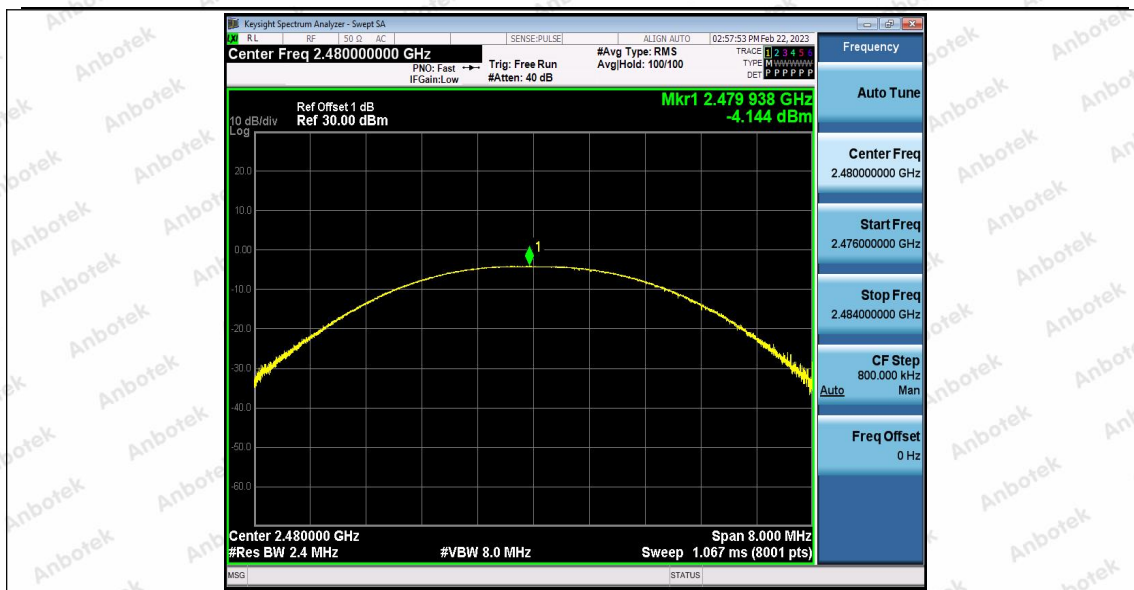
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-24.21	≤8.00	PASS
		2440	-22.99	≤8.00	PASS
		2480	-21.71	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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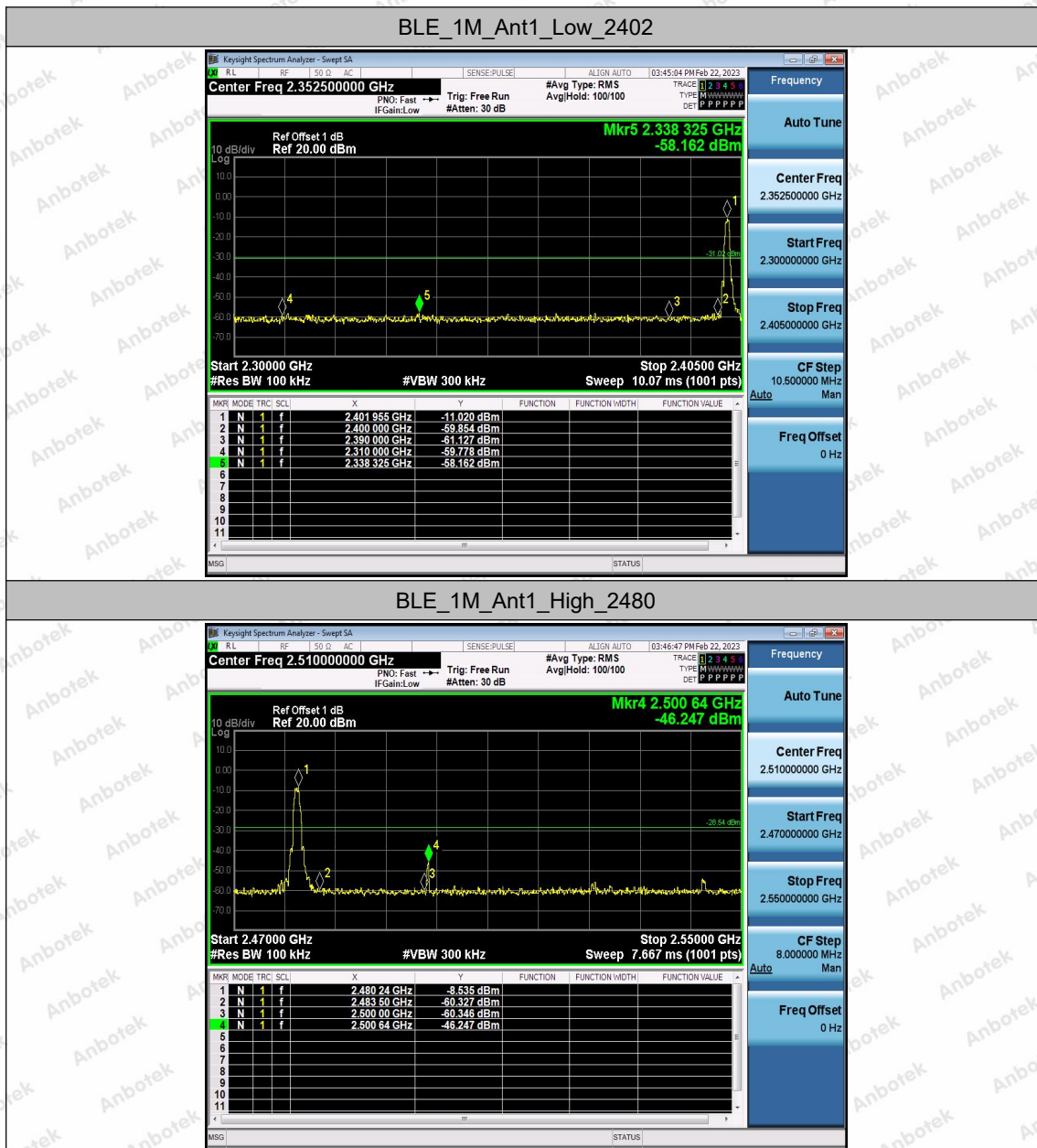
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-11.02	-58.16	≤-31.02	PASS
		High	2480	-8.54	-46.25	≤-28.54	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	-11.12	-11.12	---	PASS
			30~1000	-11.12	-60.06	≤-31.12	PASS
			1000~26500	-11.12	-36.86	≤-31.12	PASS
		2440	Reference	-10.72	-10.72	---	PASS
			30~1000	-10.72	-58.5	≤-30.72	PASS
			1000~26500	-10.72	-39.19	≤-30.72	PASS
		2480	Reference	-8.37	-8.37	---	PASS
			30~1000	-8.37	-59.72	≤-28.37	PASS
			1000~26500	-8.37	-41.08	≤-28.37	PASS

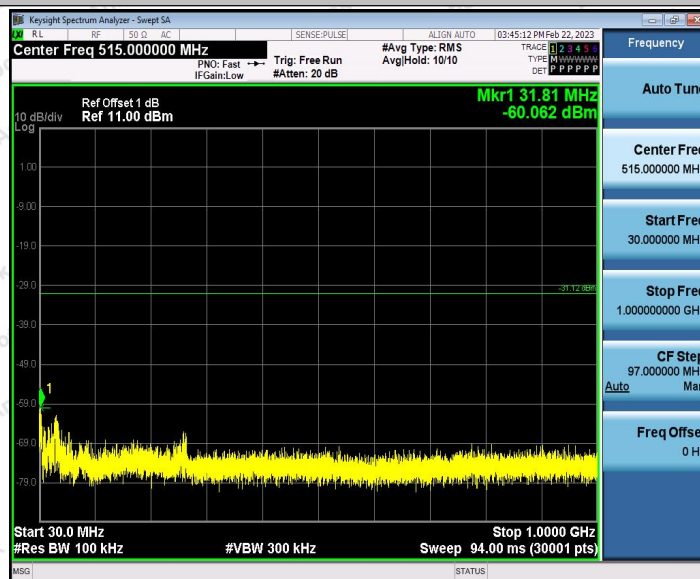


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

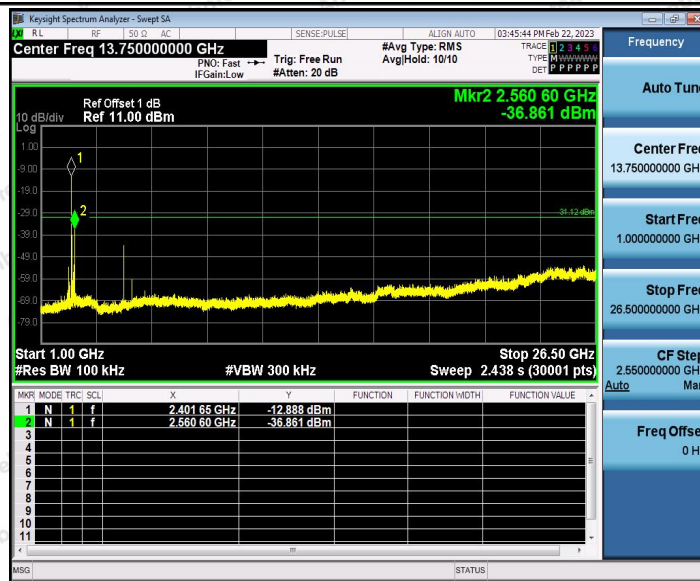
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

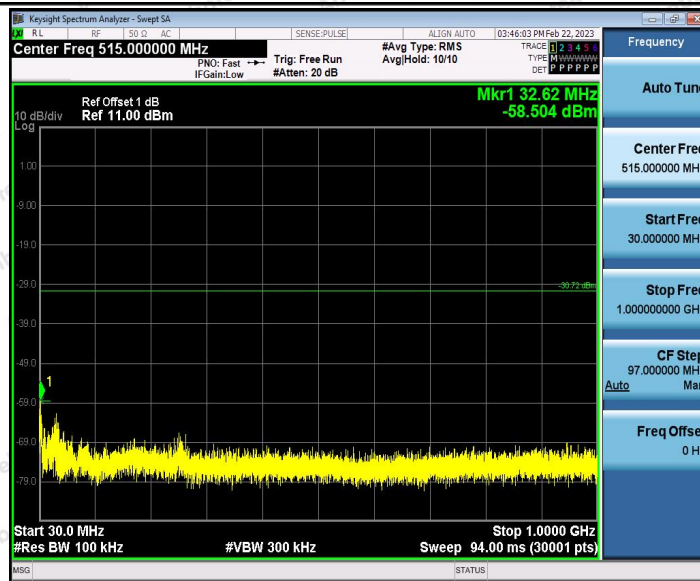
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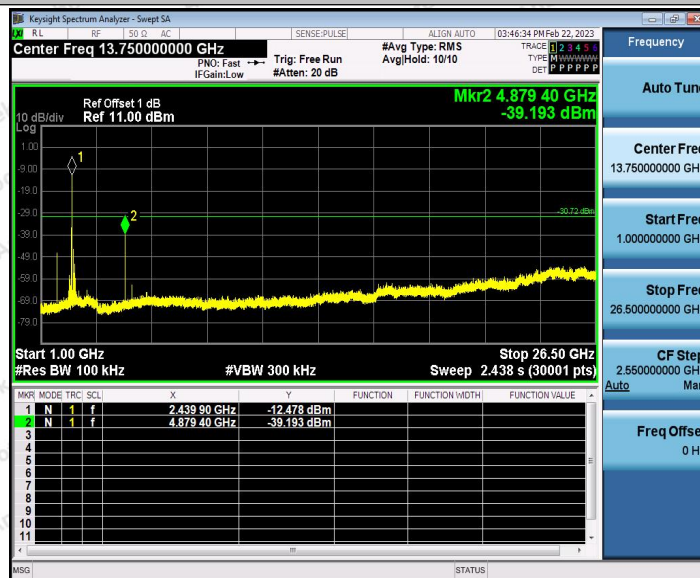


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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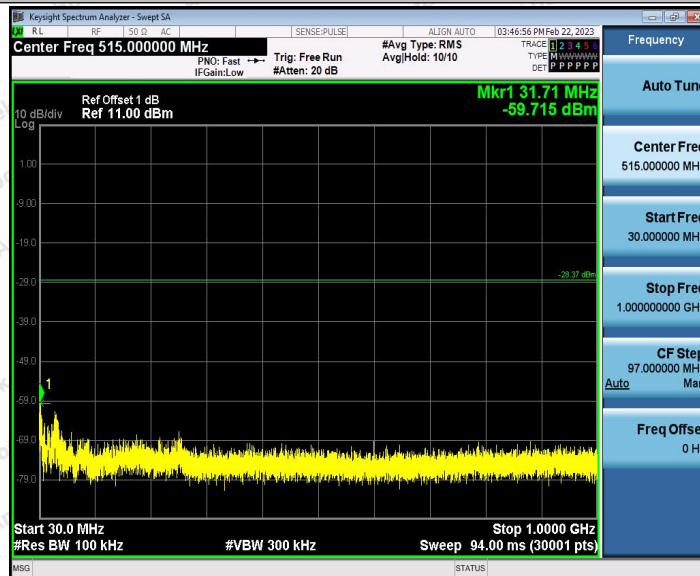


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

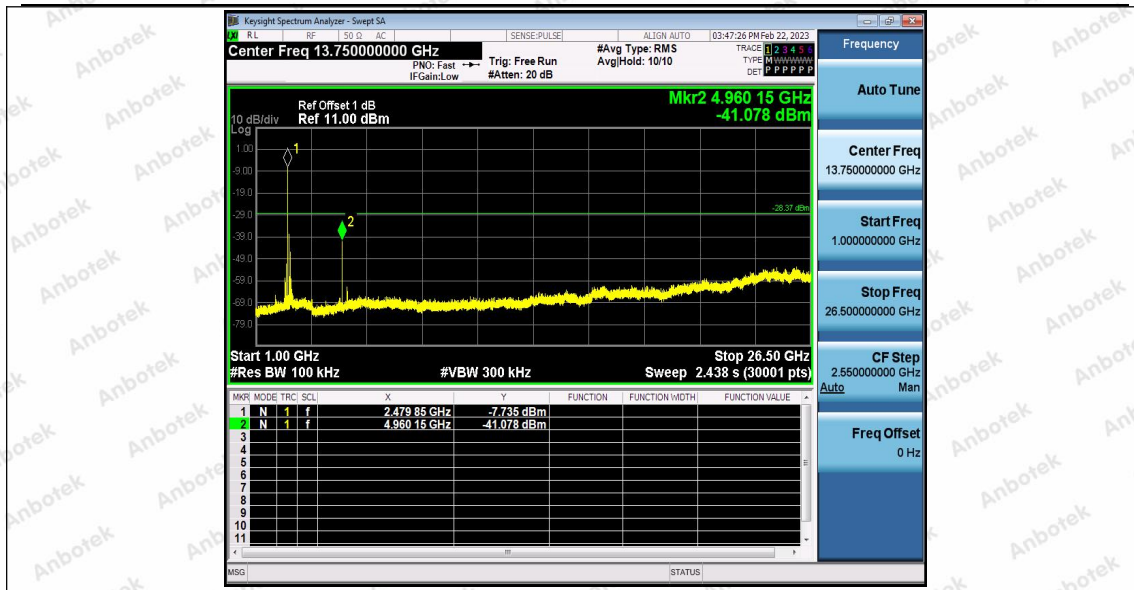
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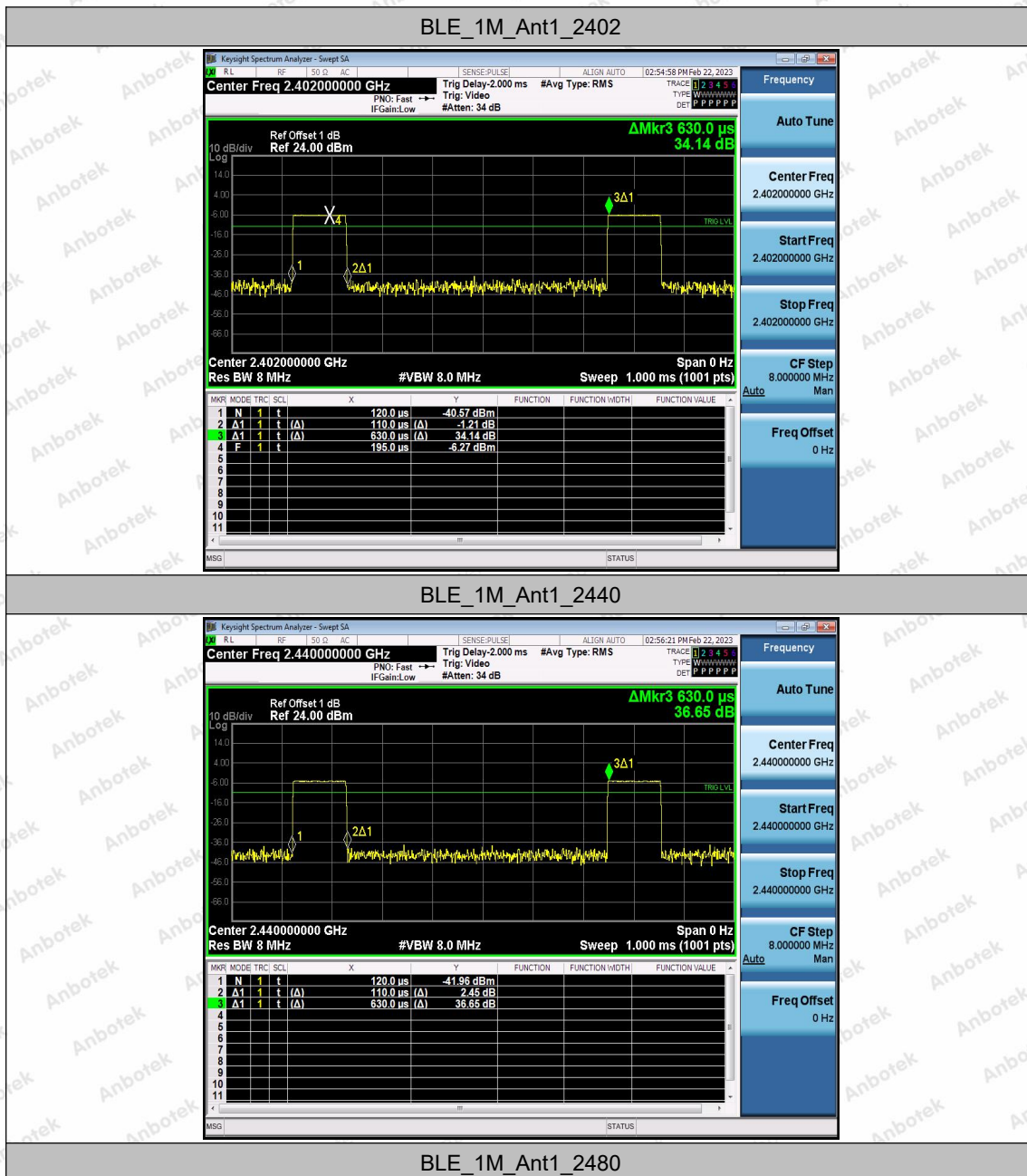
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.11	0.63	17.46	7.58
		2440	0.11	0.63	17.46	7.58
		2480	0.11	0.63	17.46	7.58



Test Graphs



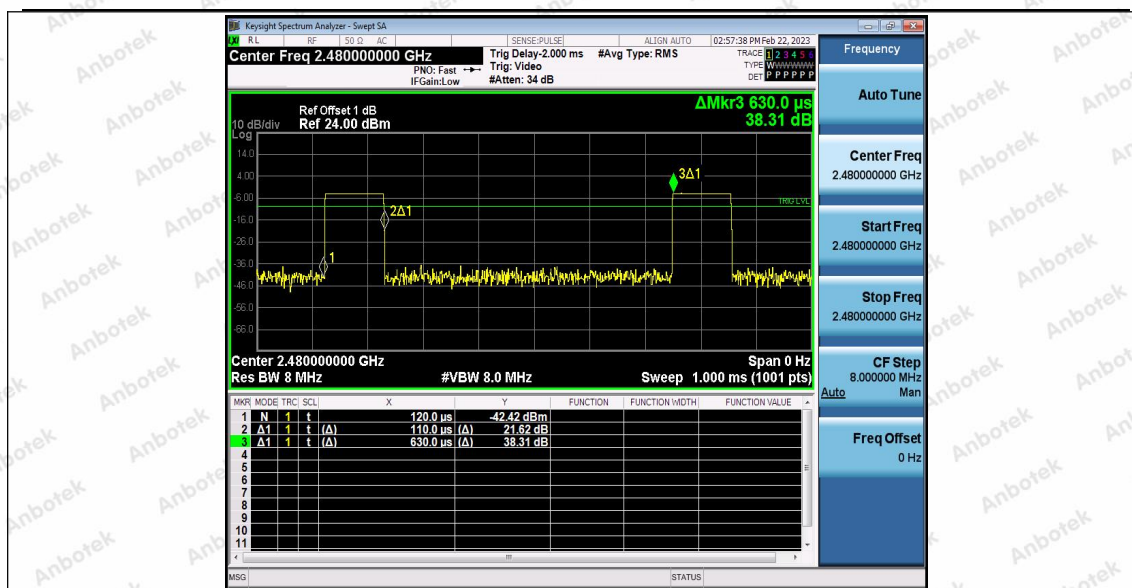
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