

Appendix Test Data

Report No.:	18220WC30190701	Test Sample No.:	1-2-2
Start Test Date:	2023.09.05	Finish Test Date:	2023.09.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	102kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.664	2402.332	0.5	PASS
		2440	0.668	2439.656	2440.324	0.5	PASS
		2480	0.704	2479.628	2480.332	0.5	PASS



Test Graphs



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0568	2401.4693	2402.5261
		2440	1.0501	2439.4731	2440.5232
		2480	1.0628	2479.4658	2480.5286



Test Graphs



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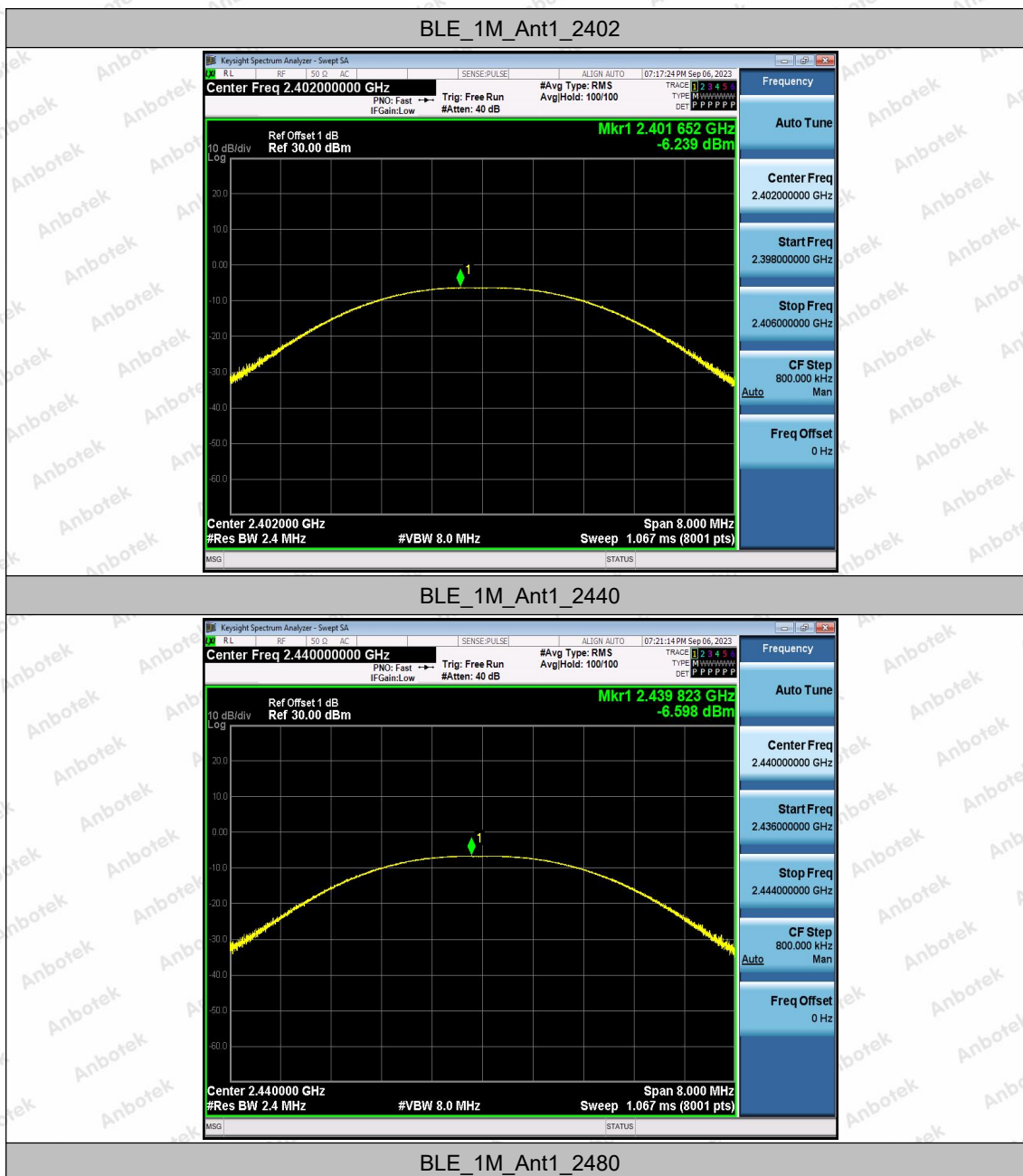
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-6.24	≤30	PASS
		2440	-6.60	≤30	PASS
		2480	-7.23	≤30	PASS



Test Graphs Peak



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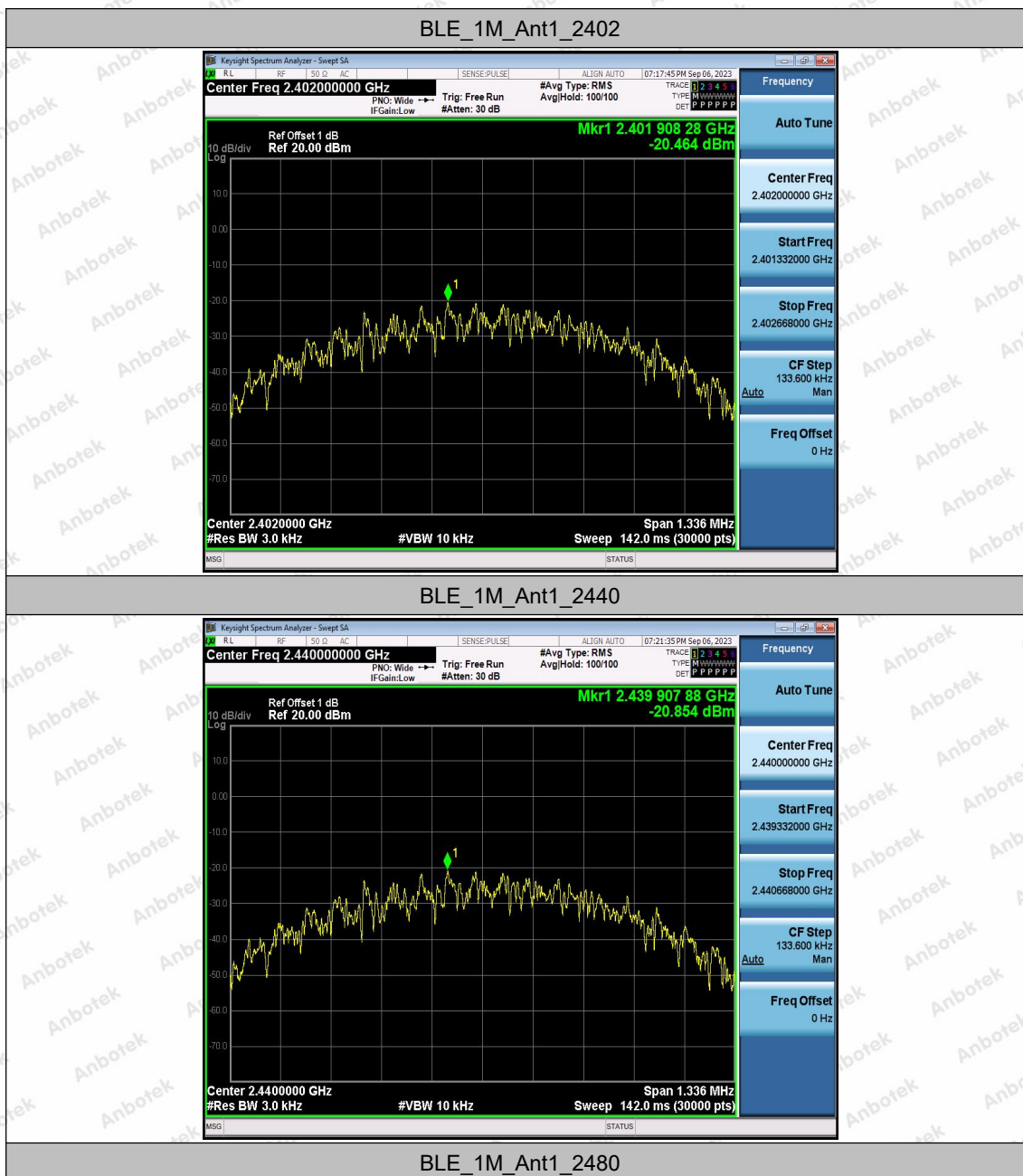
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.46	≤8.00	PASS
		2440	-20.85	≤8.00	PASS
		2480	-21.57	≤8.00	PASS



Test Graphs



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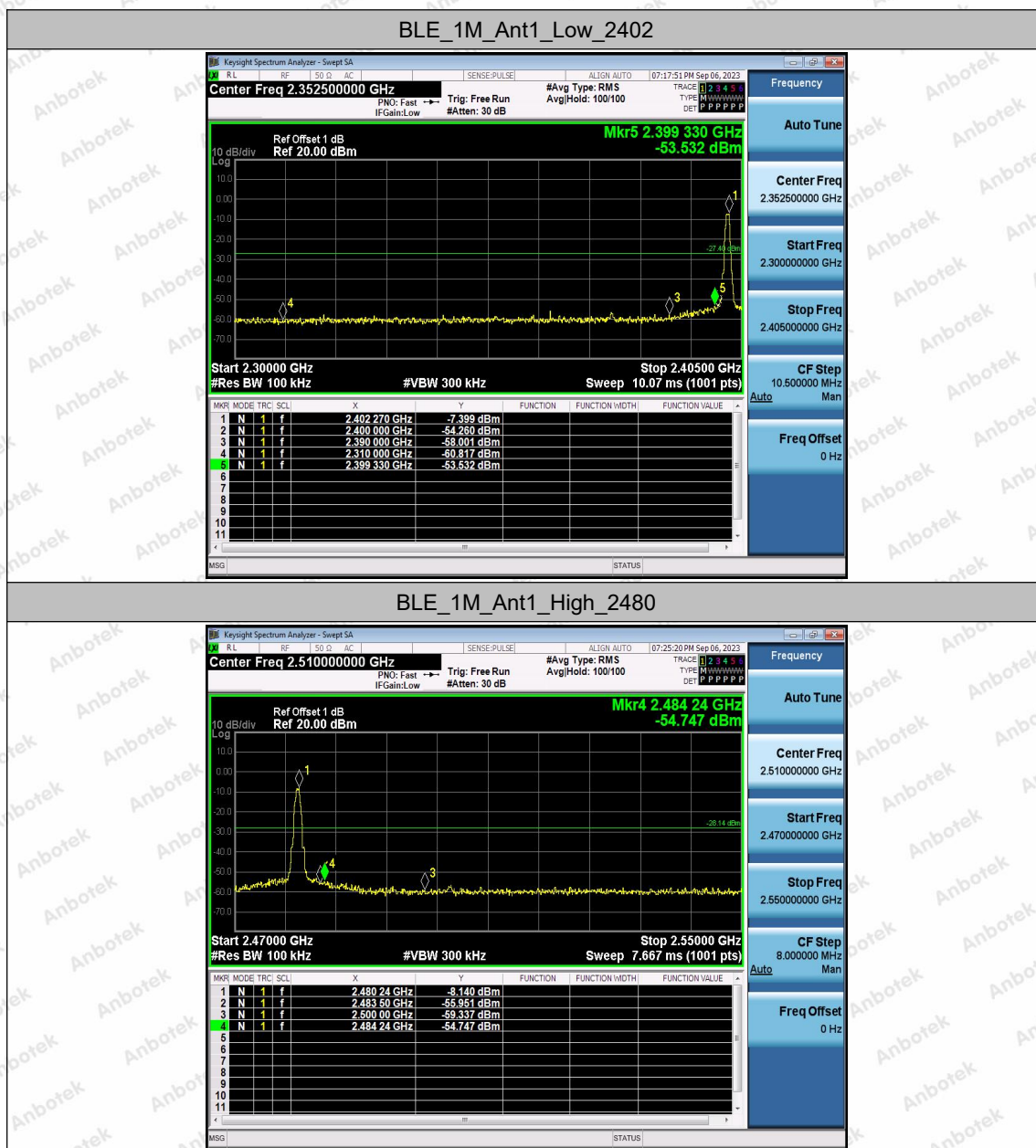


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-7.40	-53.53	≤-27.4	PASS
		High	2480	-8.14	-54.75	≤-28.14	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	-8.06	-8.06	---	PASS
			30~1000	-8.06	-67.39	≤-28.06	PASS
			1000~26500	-8.06	-54.14	≤-28.06	PASS
		2440	Reference	-8.45	-8.45	---	PASS
			30~1000	-8.45	-67.60	≤-28.45	PASS
			1000~26500	-8.45	-53.39	≤-28.45	PASS
		2480	Reference	-8.95	-8.95	---	PASS
			30~1000	-8.95	-66.73	≤-28.95	PASS
			1000~26500	-8.95	-54.06	≤-28.95	PASS

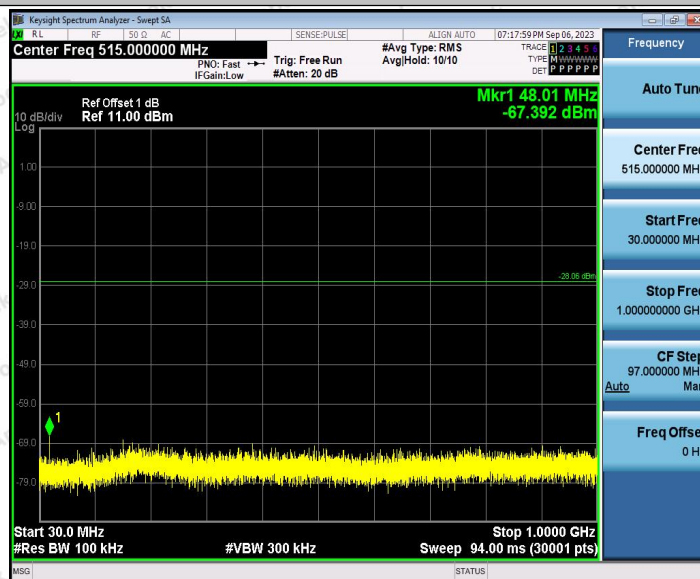


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

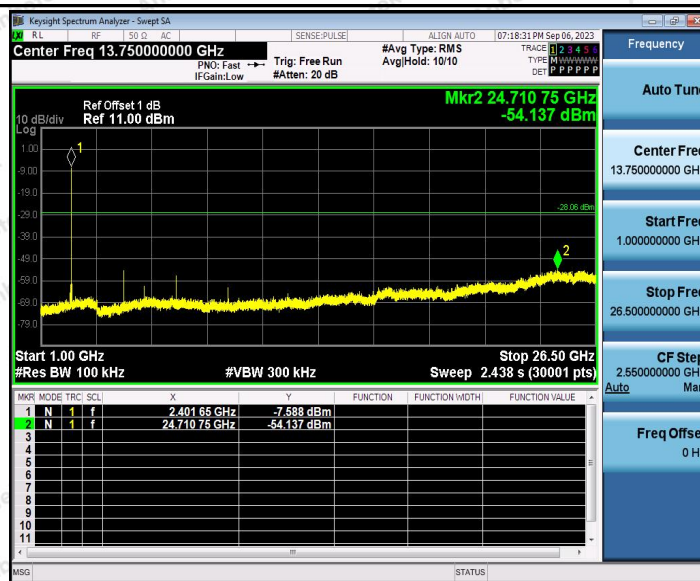
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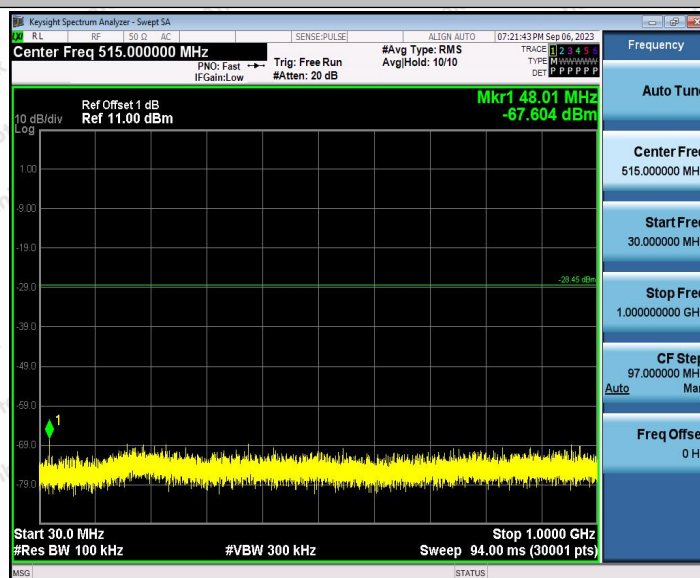




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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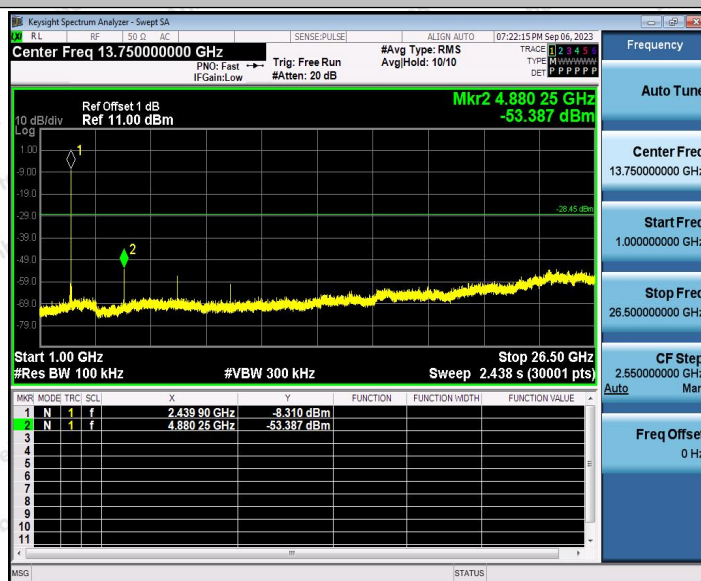
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

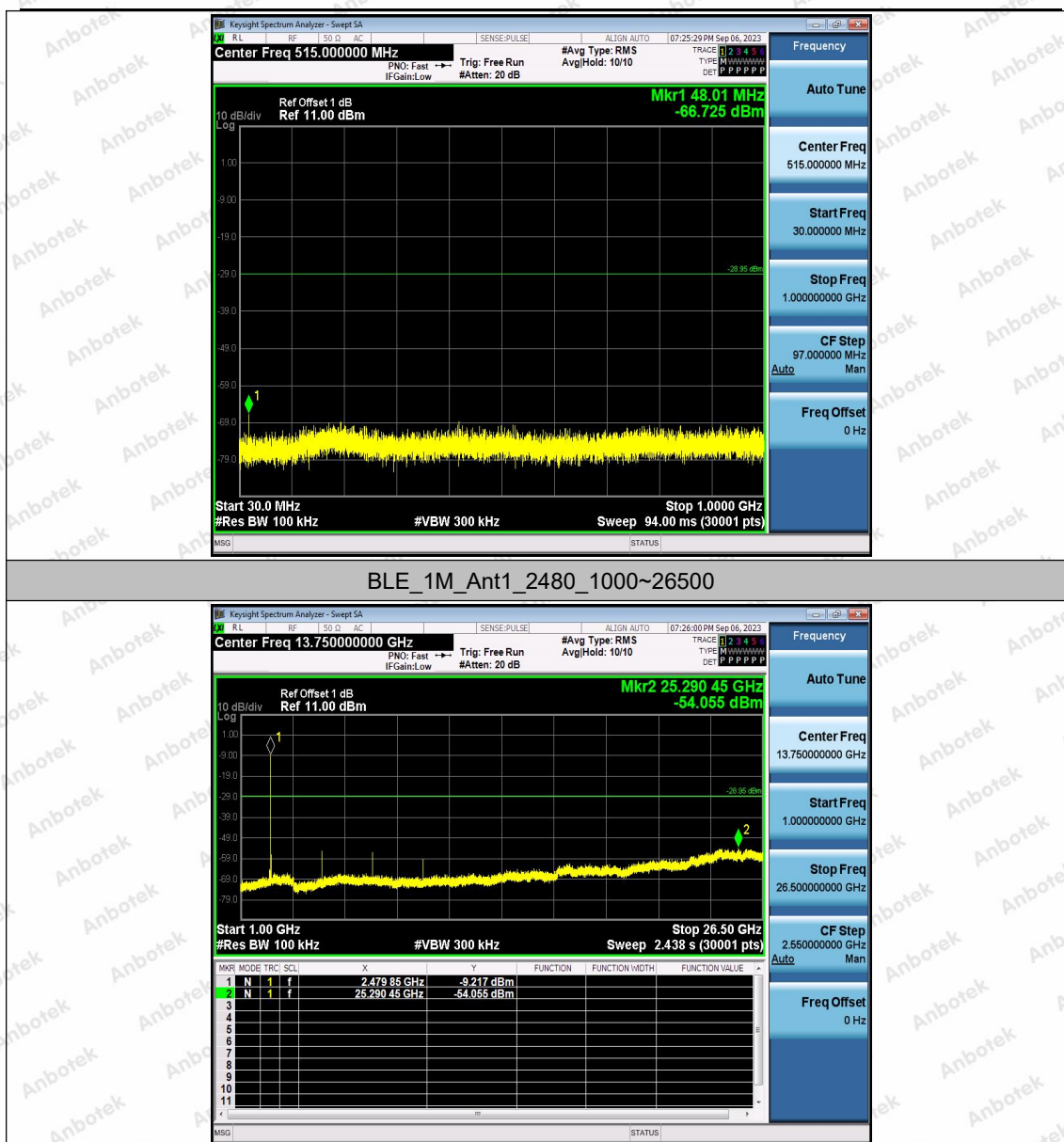
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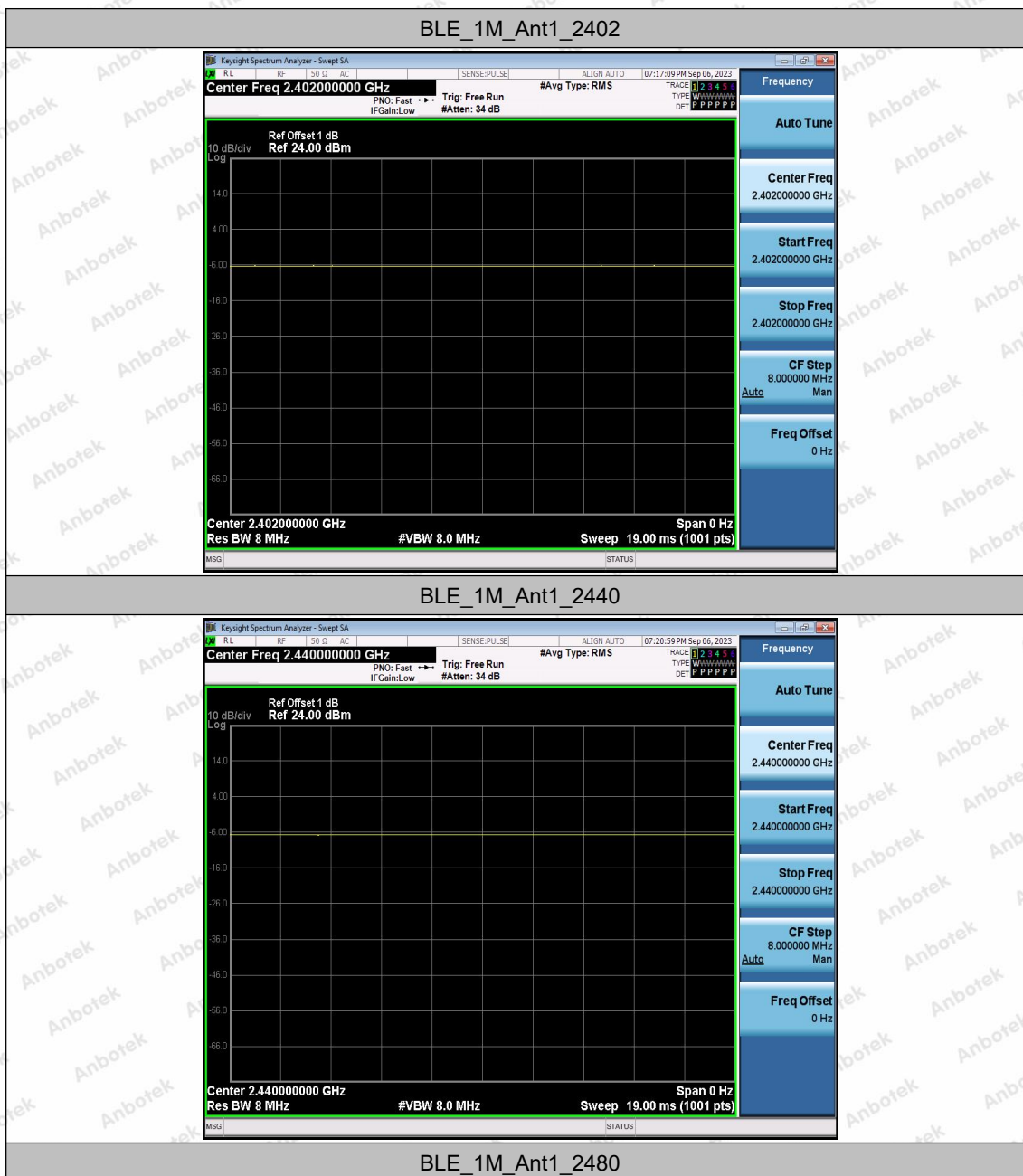
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00



Test Graphs



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