

Appendix Test Data

Report No.:	18220WC30045101	Test Sample No.:	1-2-2
Start Test Date:	2023.03.21	Finish Test Date:	2023.03.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	25.8°C	Relative Humidity:	48%
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	2401.648	2402.336	0.5	PASS
		2440	0.708	2439.640	2440.348	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS



Test Graphs



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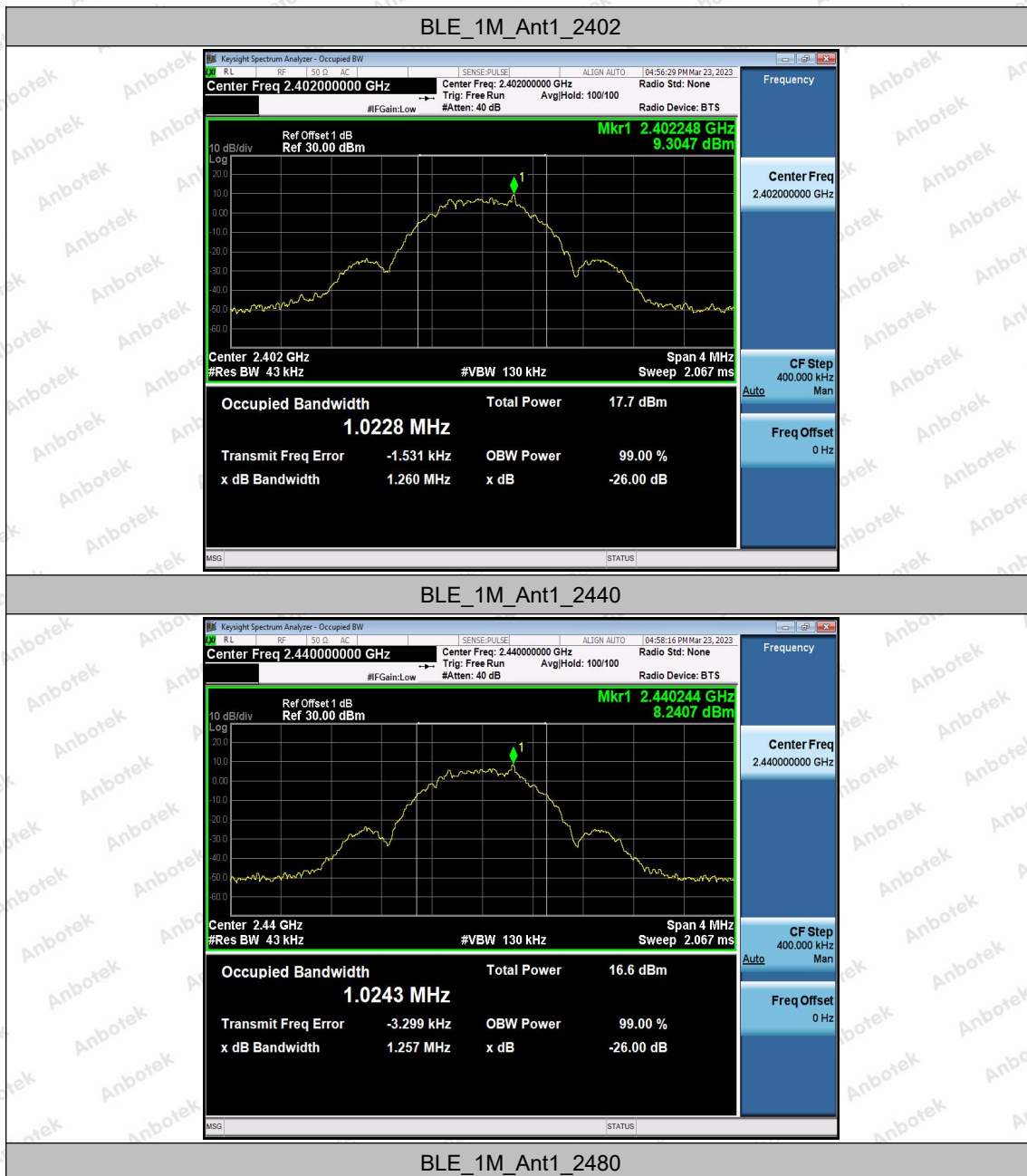
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0228	2401.4871	2402.5099
		2440	1.0243	2439.4846	2440.5089
		2480	1.0201	2479.4888	2480.5089



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	10.85	≤30	PASS
		2440	9.76	≤30	PASS
		2480	9.2	≤30	PASS

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Test Graphs Peak



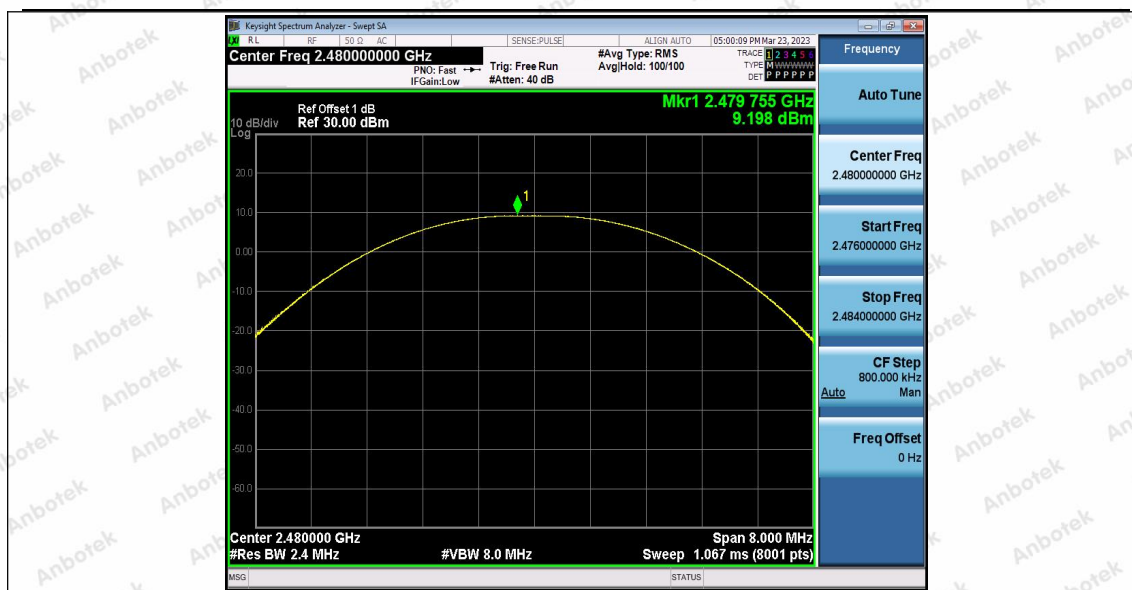
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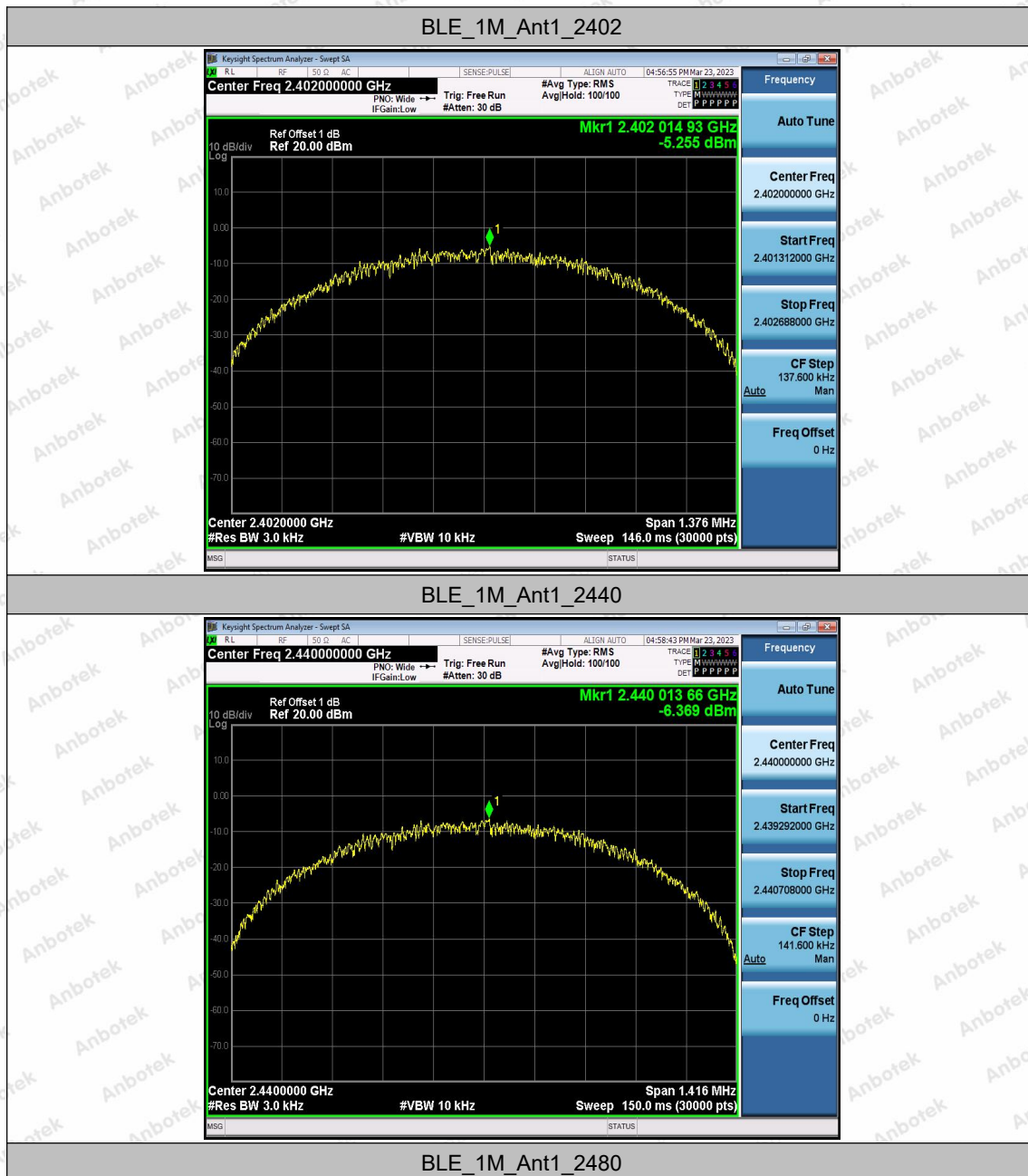
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.26	≤8.00	PASS
		2440	-6.37	≤8.00	PASS
		2480	-6.85	≤8.00	PASS



Test Graphs



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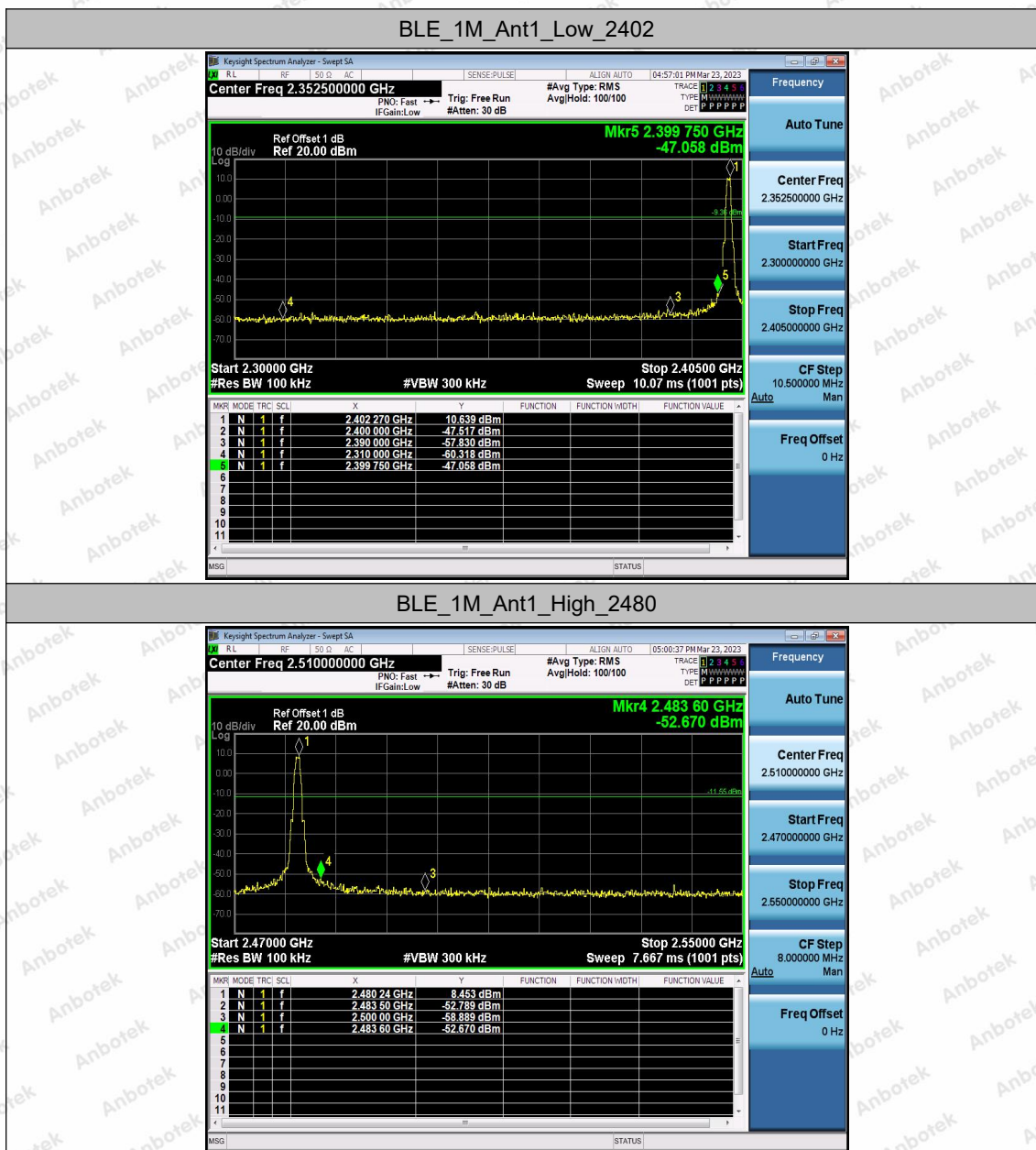
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.64	-47.06	≤-9.36	PASS
		High	2480	8.45	-52.67	≤-11.55	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	9.77	9.77	---	PASS
			30~1000	9.77	-69.07	≤-10.23	PASS
			1000~26500	9.77	-25.76	≤-10.23	PASS
		2440	Reference	8.79	8.79	---	PASS
			30~1000	8.79	-68.71	≤-11.21	PASS
			1000~26500	8.79	-28.89	≤-11.21	PASS
		2480	Reference	8.15	8.15	---	PASS
			30~1000	8.15	-68.82	≤-11.85	PASS
			1000~26500	8.15	-28.58	≤-11.85	PASS

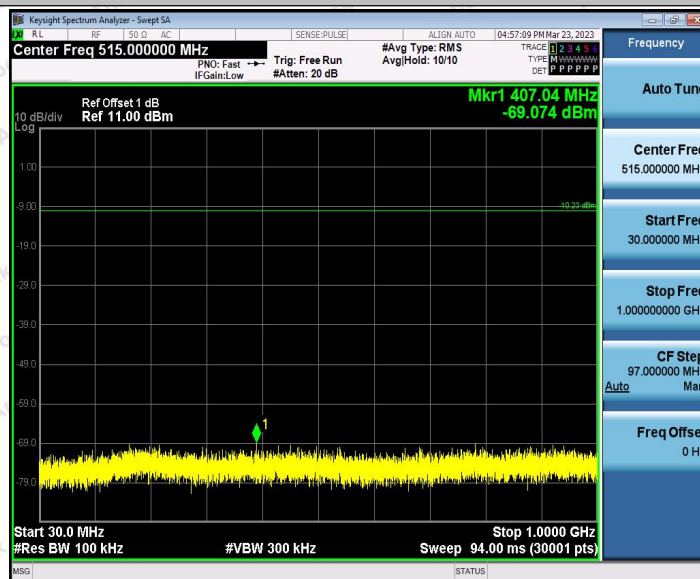


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

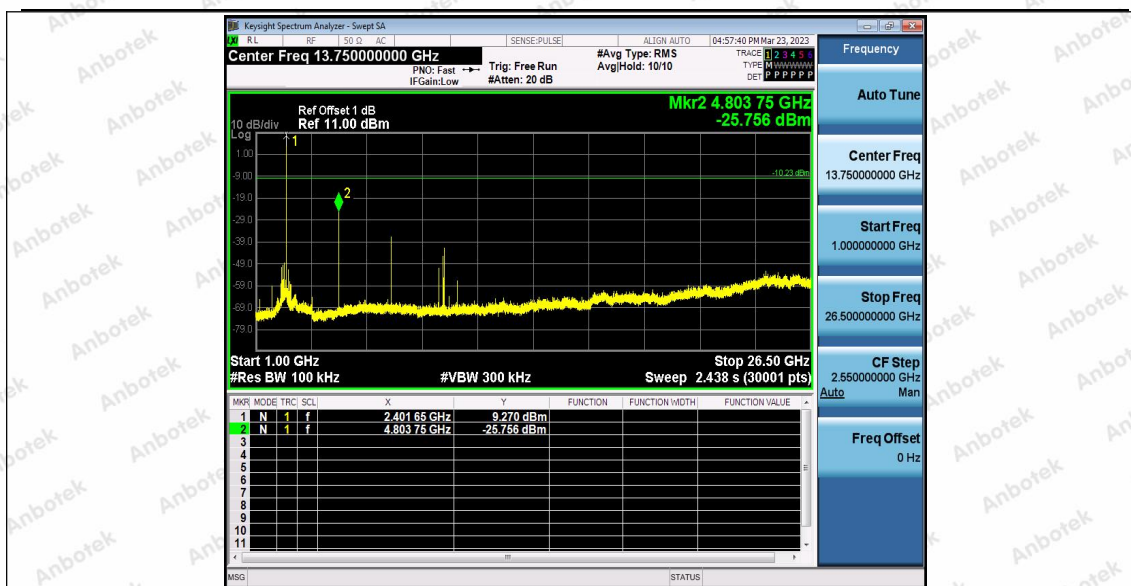
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

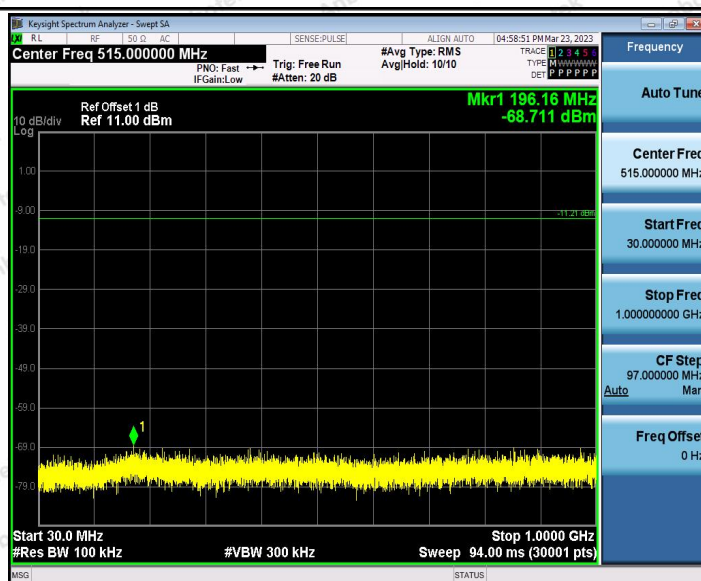
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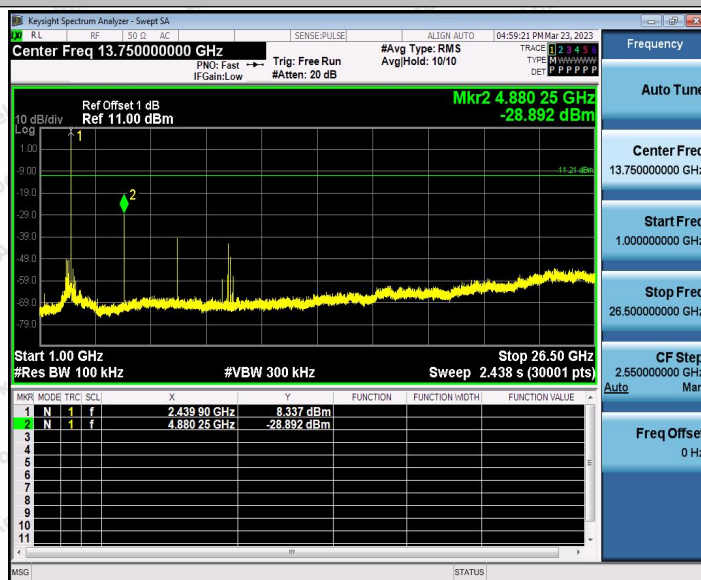


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



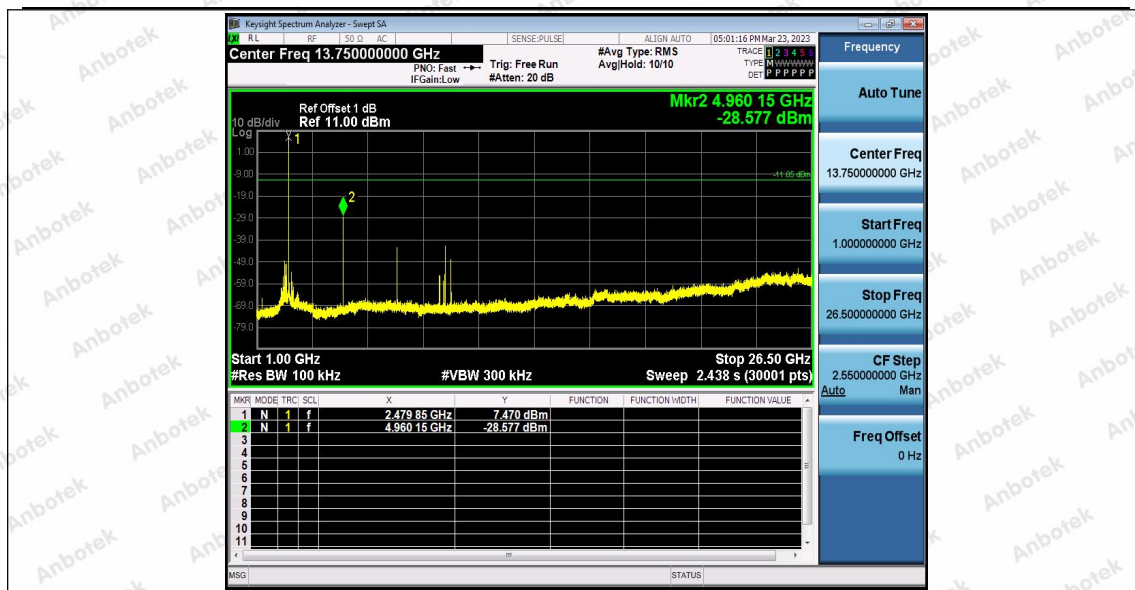
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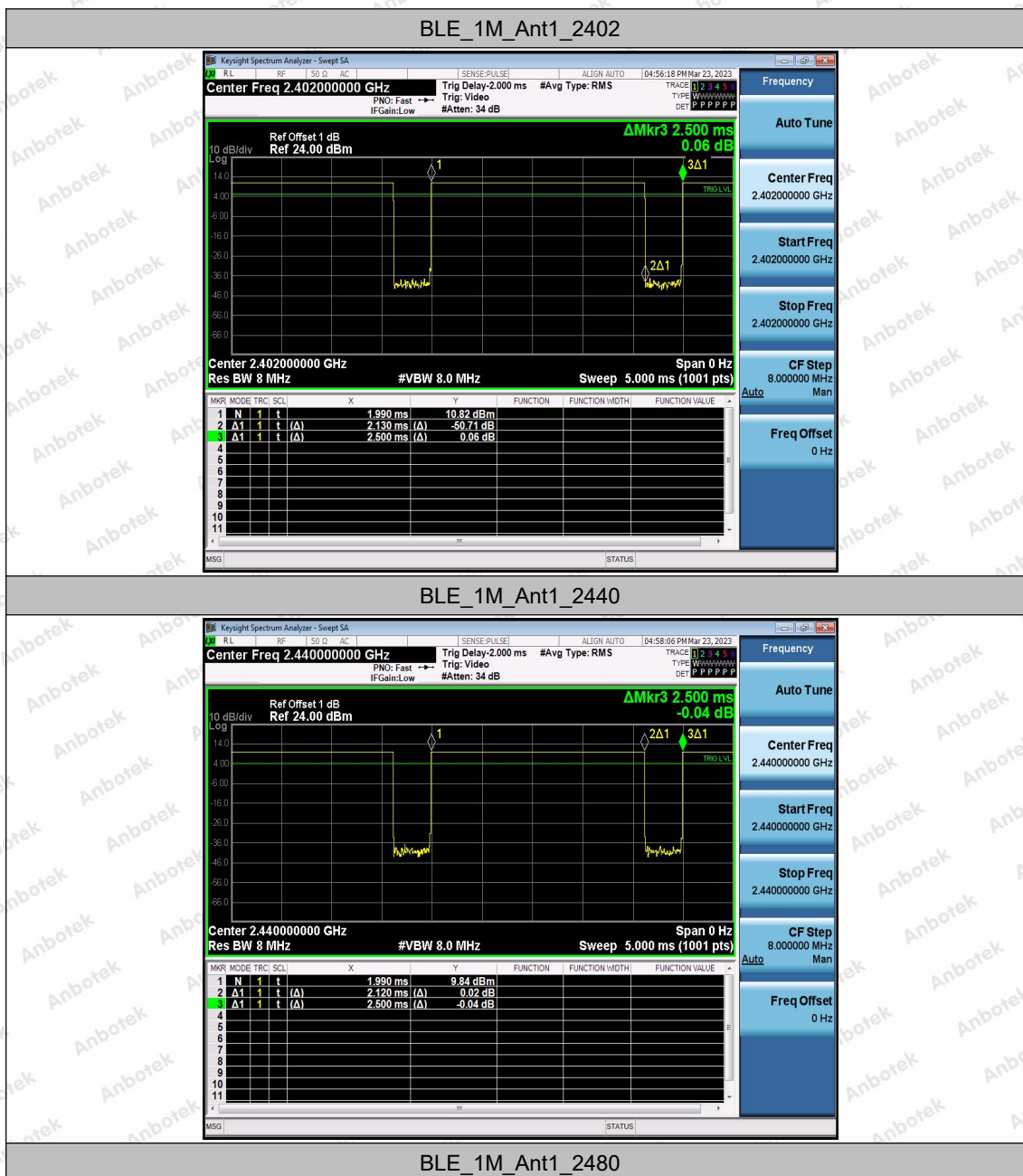
Appendix G: Duty Cycle

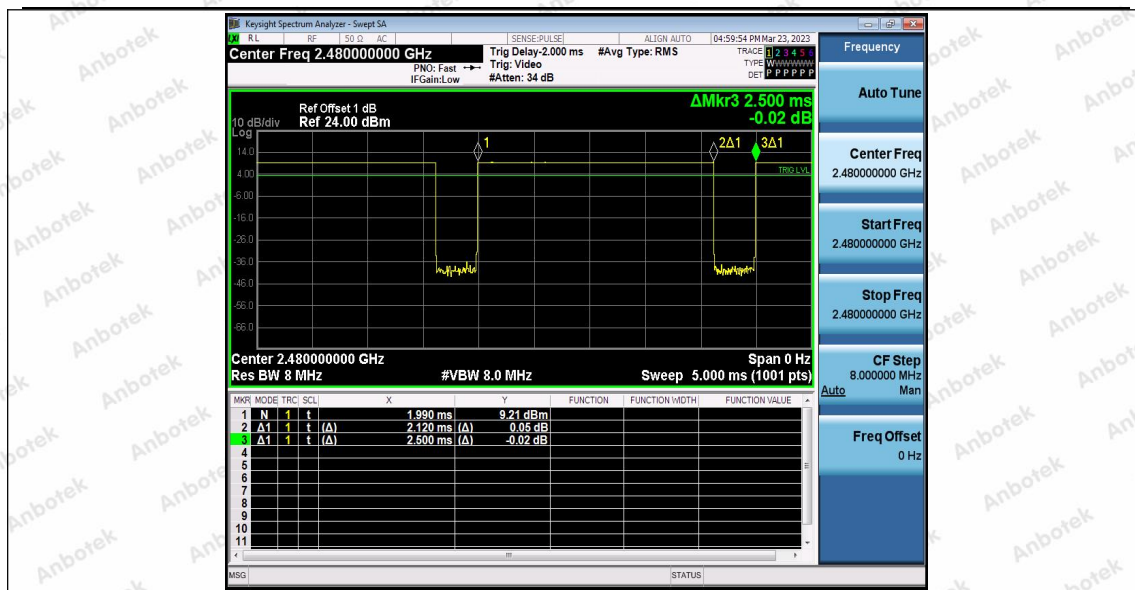
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.12	2.50	84.80	0.72
		2480	2.12	2.50	84.80	0.72



Test Graphs





---End---

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