

Appendix Test Data

Report No.:	18220WC30052402	Test Sample No.:	1-2-2
Start Test Date:	2023.03.31	Finish Test Date:	2023.04.25
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.0C°	Relative Humidity:	45%
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	0.664	2401.620	2402.284	0.5	PASS
		2440	0.640	2439.632	2440.272	0.5	PASS
		2480	0.636	2479.632	2480.268	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.368	2402.512	0.5	PASS
		2440	1.240	2439.308	2440.548	0.5	PASS
		2480	1.048	2479.416	2480.464	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

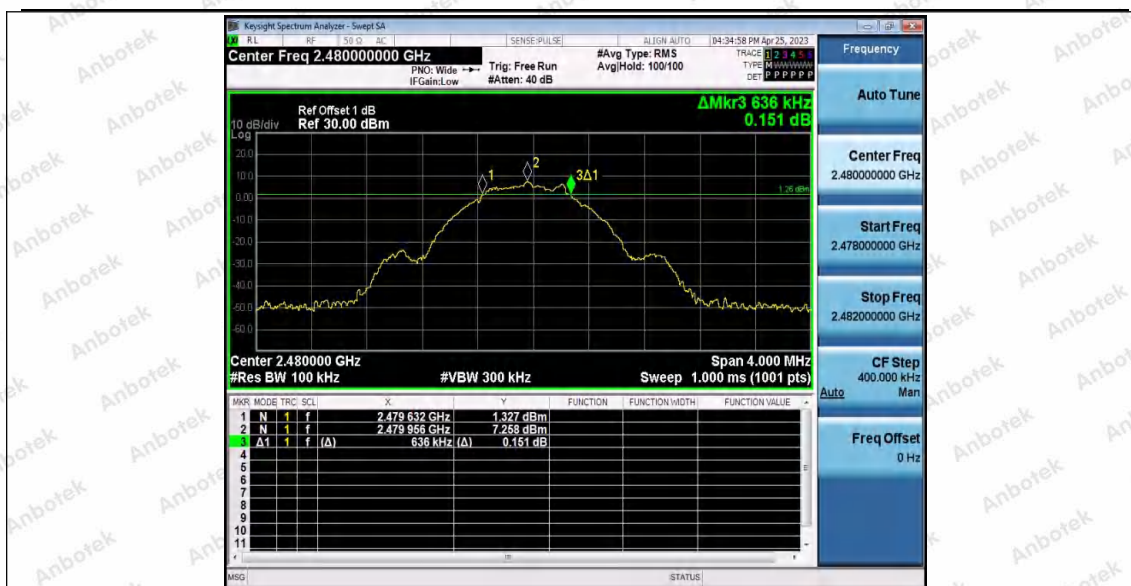
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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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	1.0295	2401.4425	2402.4720
		2440	1.0211	2439.4442	2440.4653
		2480	1.0229	2479.4448	2480.4677
BLE_2M	Ant1	2402	2.0543	2400.9421	2402.9964
		2440	2.0389	2438.9529	2440.9918
		2480	2.0433	2478.9430	2480.9863



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_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	7.8	≤30	PASS
		2440	7.45	≤30	PASS
		2480	7.55	≤30	PASS
BLE_2M	Ant1	2402	7.86	≤30	PASS
		2440	7.99	≤30	PASS
		2480	7.86	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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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	-7.63	≤8.00	PASS
		2440	-7.66	≤8.00	PASS
		2480	-7.79	≤8.00	PASS
BLE_2M	Ant1	2402	-9.28	≤8.00	PASS
		2440	-9.2	≤8.00	PASS
		2480	-9.41	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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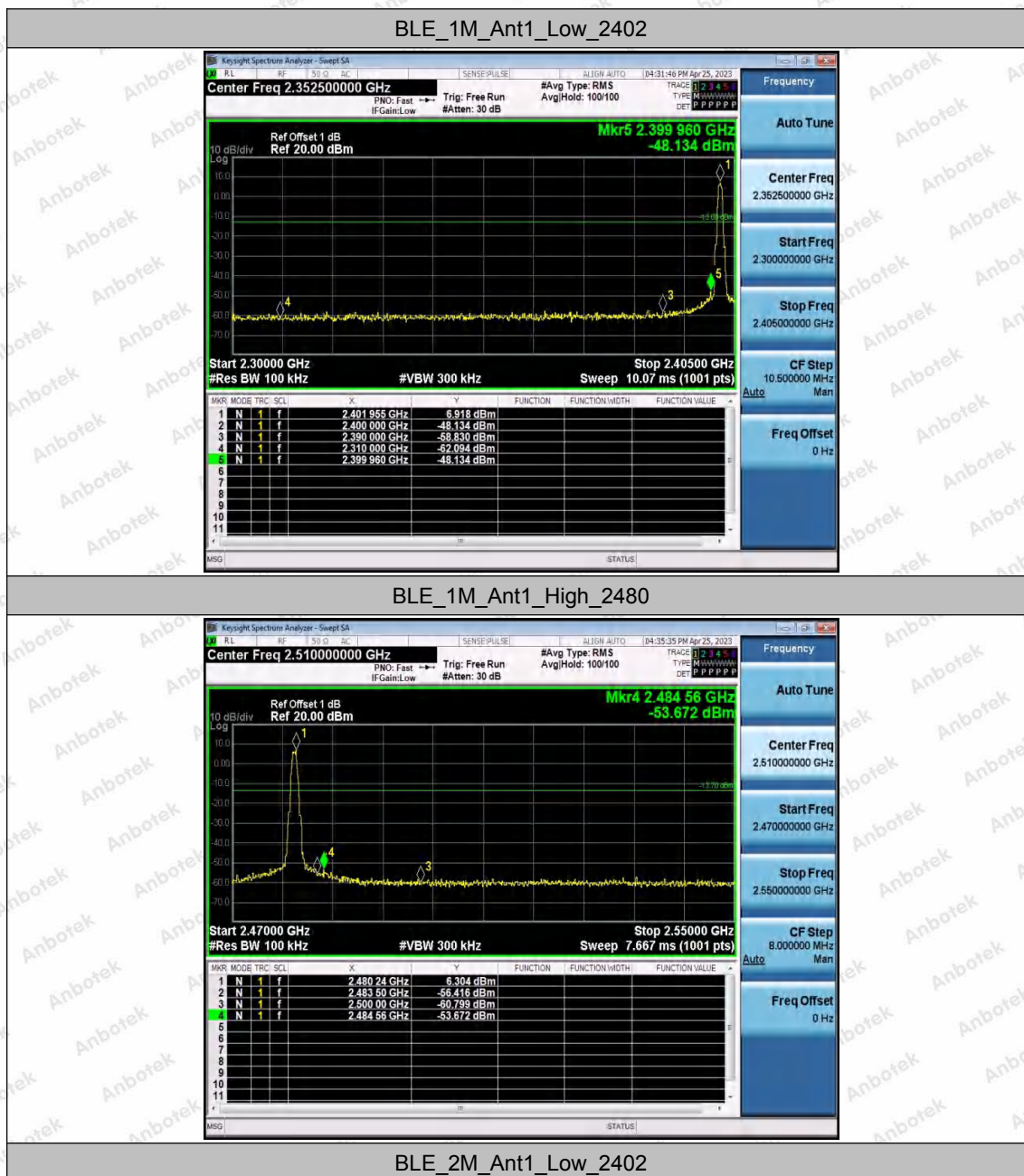
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.92	-48.13	≤-13.08	PASS
		High	2480	6.30	-53.67	≤-13.7	PASS
BLE_2M	Ant1	Low	2402	6.74	-40.07	≤-13.26	PASS
		High	2480	7.90	-53.65	≤-12.1	PASS



Test Graphs



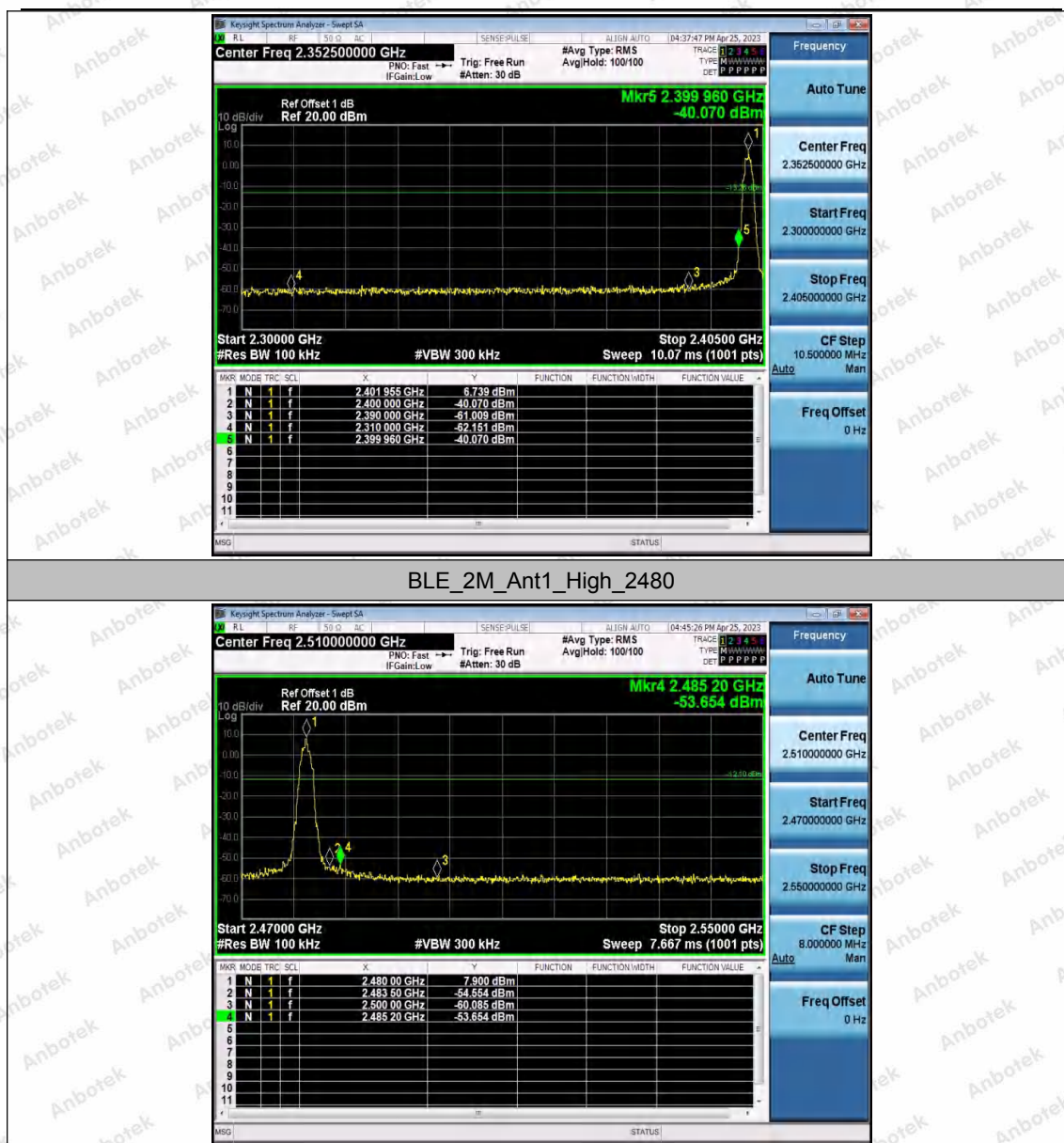
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.11	6.11	---	PASS
			30~1000	6.11	-68.7	≤-13.89	PASS
			1000~26500	6.11	-51.97	≤-13.89	PASS
		2440	Reference	6.01	6.01	---	PASS
			30~1000	6.01	-68.53	≤-13.99	PASS
			1000~26500	6.01	-53.45	≤-13.99	PASS
		2480	Reference	5.84	5.84	---	PASS
			30~1000	5.84	-68.73	≤-14.16	PASS
			1000~26500	5.84	-53.35	≤-14.16	PASS
BLE_2M	Ant1	2402	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-67.83	≤-15.9	PASS
			1000~26500	4.10	-53.6	≤-15.9	PASS
		2440	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-64.67	≤-16.2	PASS
			1000~26500	3.80	-53.23	≤-16.2	PASS
		2480	Reference	4.85	4.85	---	PASS
			30~1000	4.85	-66.5	≤-15.15	PASS
			1000~26500	4.85	-53.32	≤-15.15	PASS

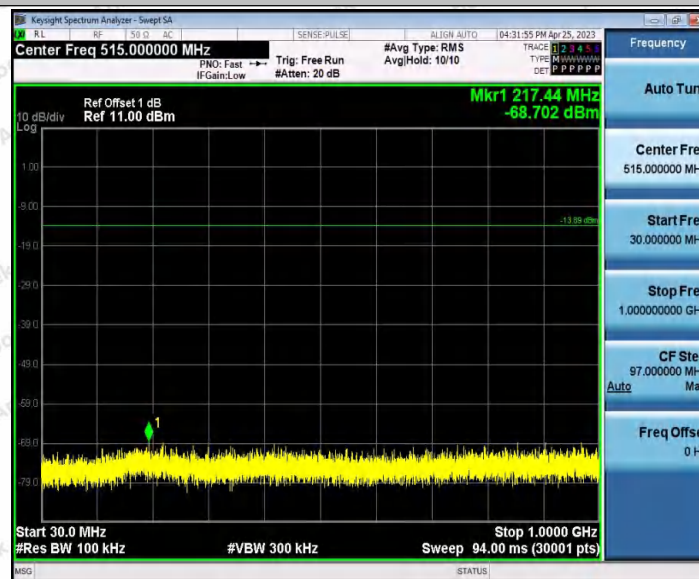


Test Graphs

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





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





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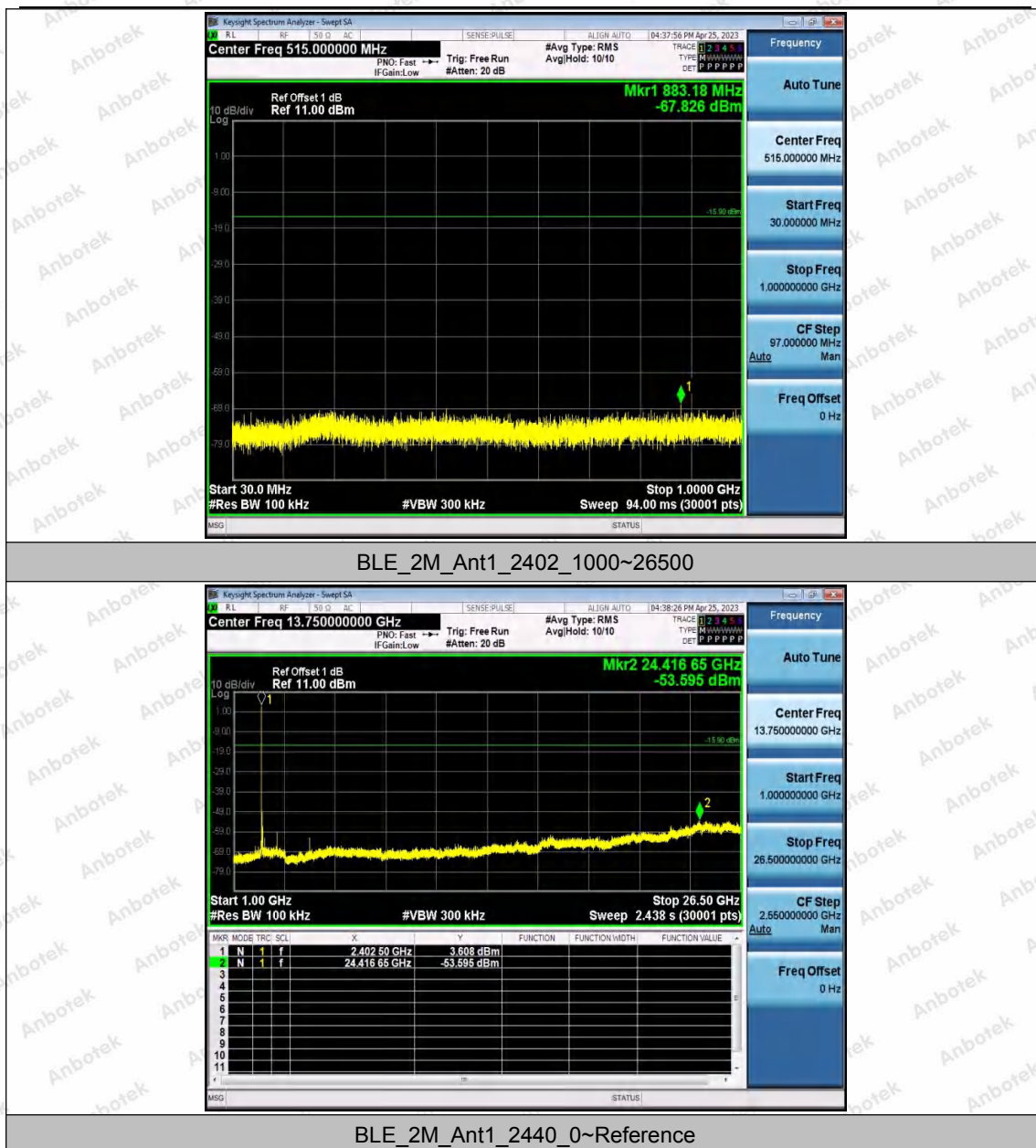


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



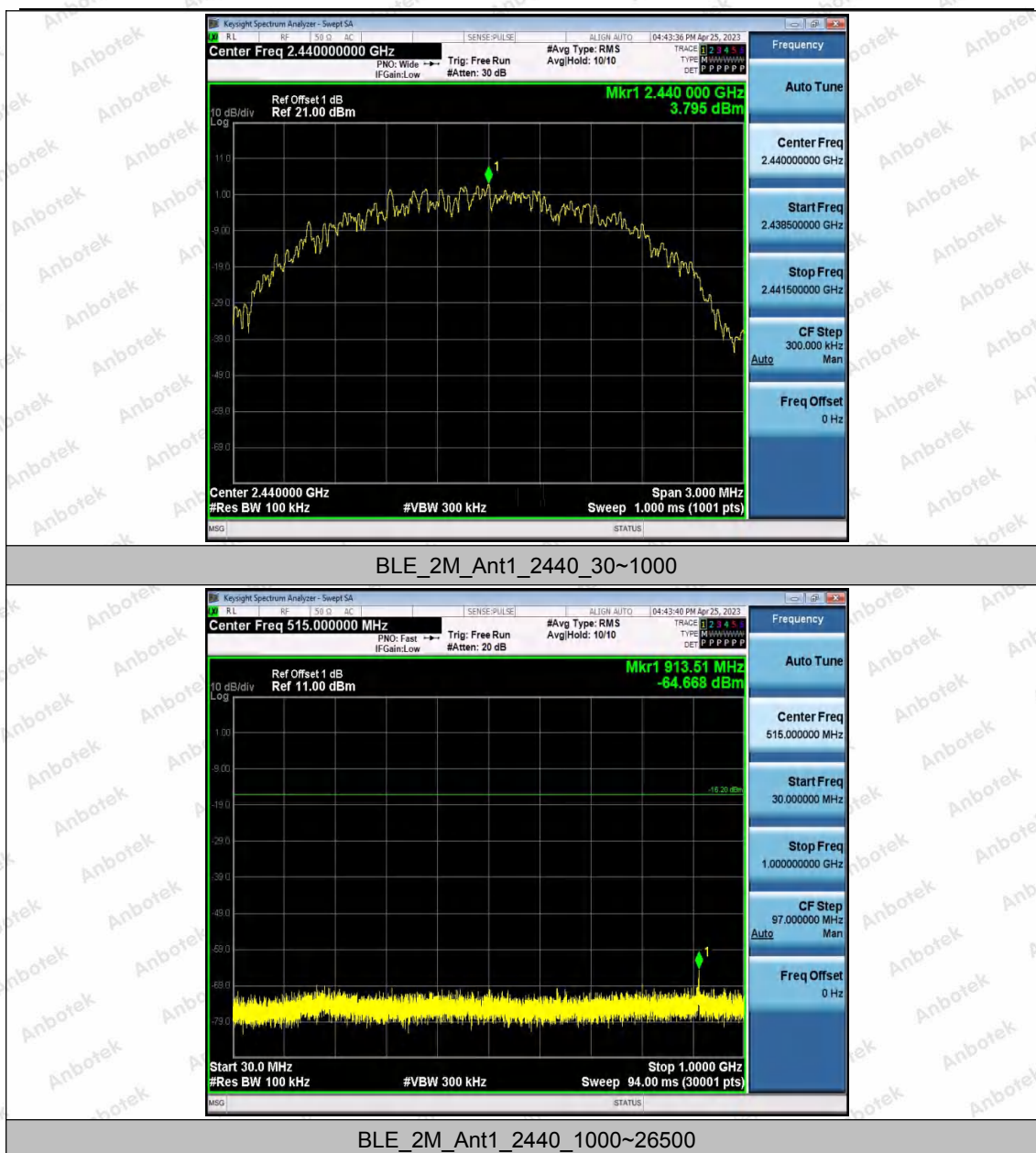
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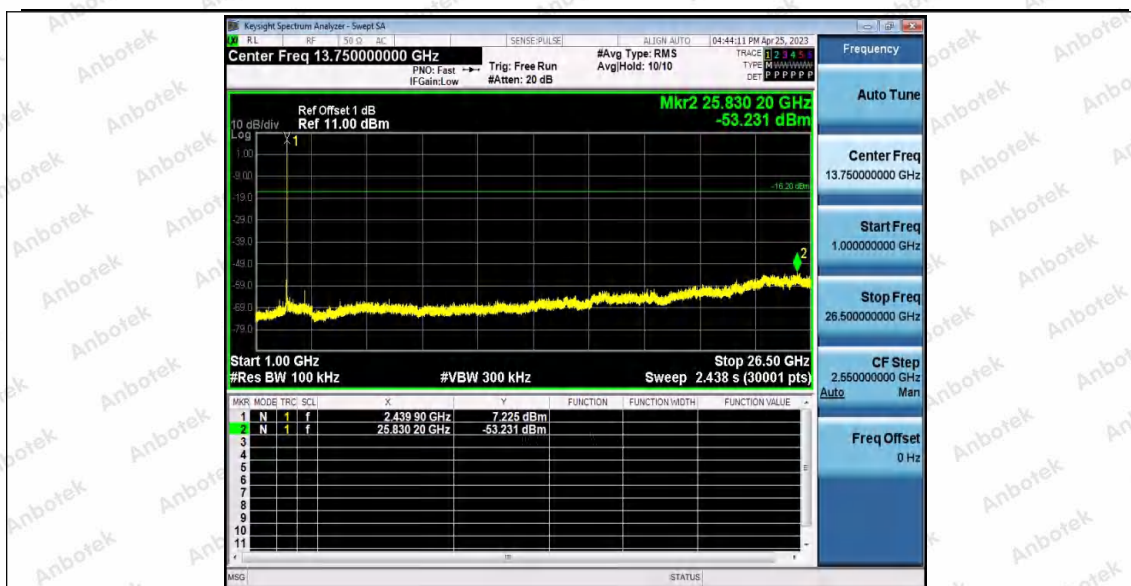
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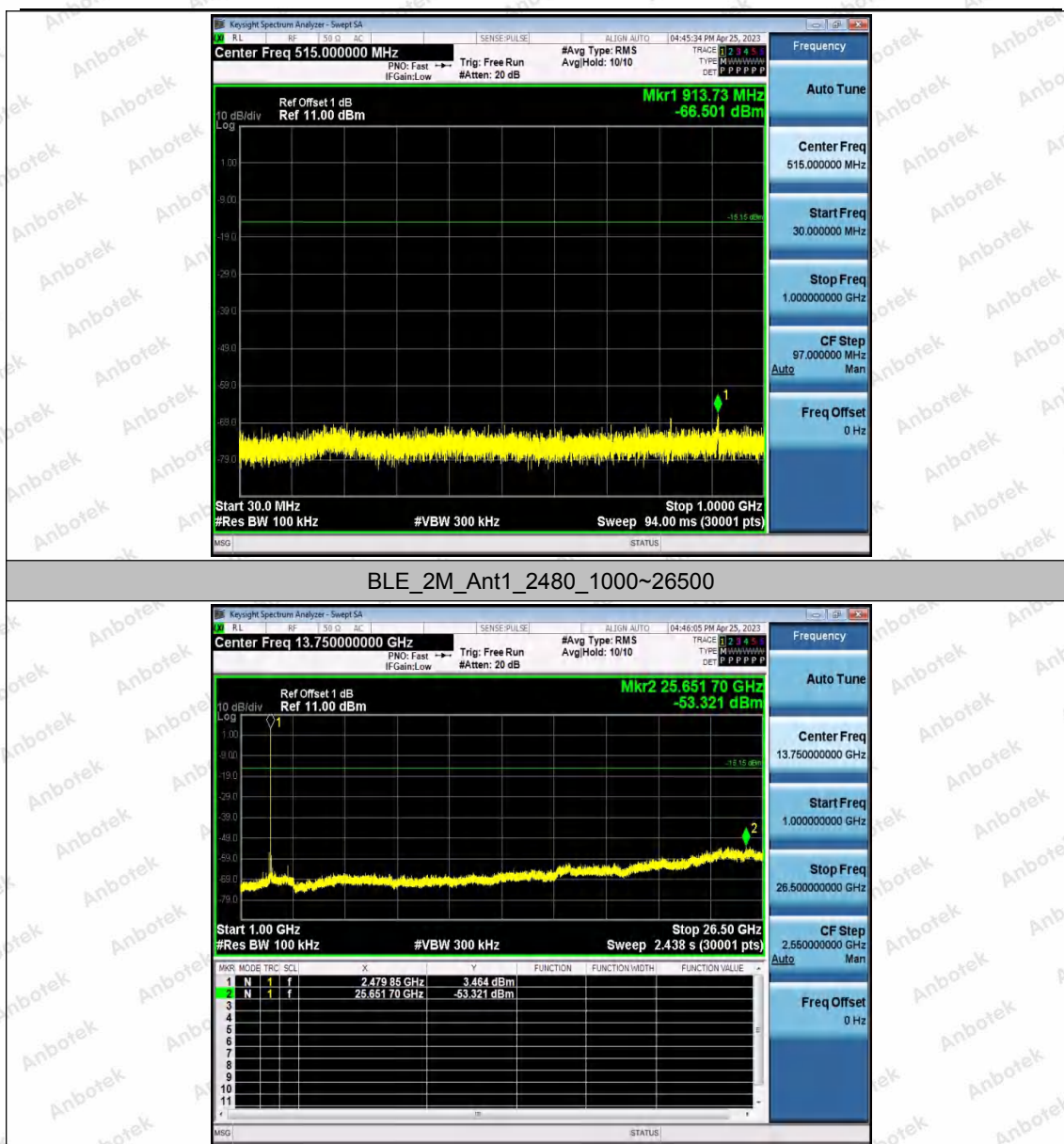


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

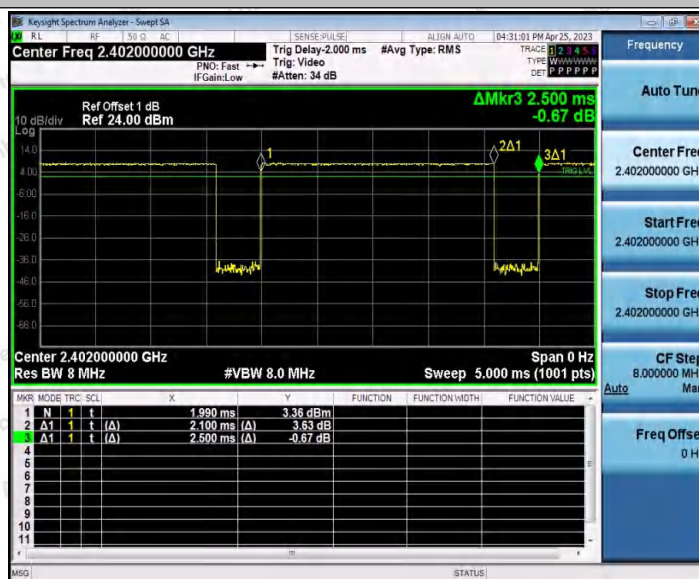
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.88	56.38	2.49

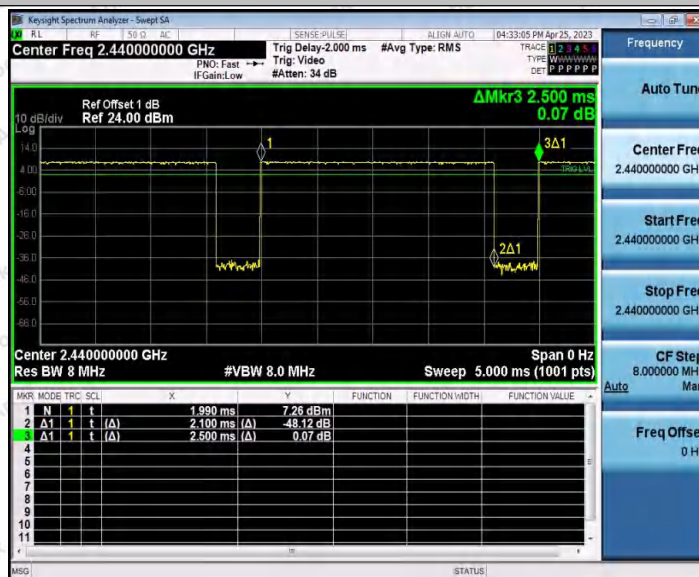


Test Graphs

BLE_1M_Ant1_2402

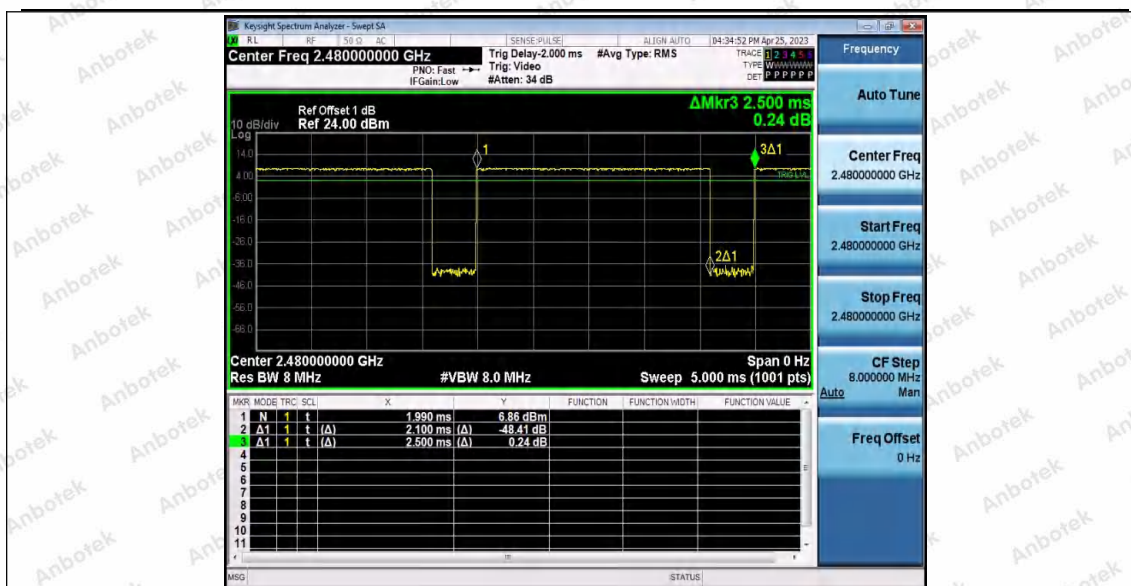


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



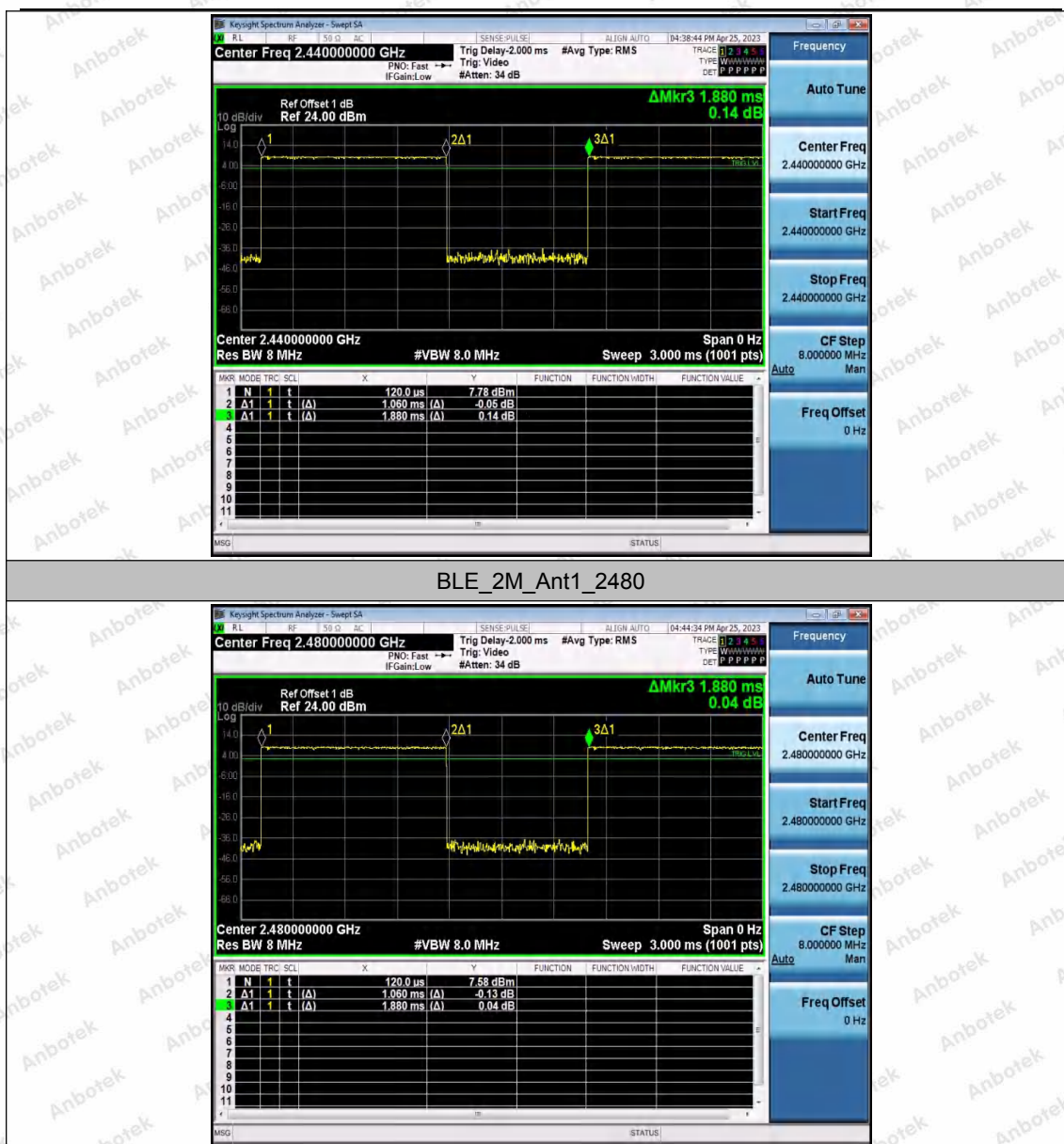


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

