

Appendix Test Data

Report No.:	18220WC30194401	Test Sample No.:	1-2-2
Start Test Date:	2023.09.06	Finish Test Date:	2023.09.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	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	0.644	2401.632	2402.276	0.5	PASS
		2440	0.668	2439.612	2440.280	0.5	PASS
		2480	0.644	2479.628	2480.272	0.5	PASS
BLE_2M	Ant1	2402	1.084	2401.440	2402.524	0.5	PASS
		2440	1.048	2439.460	2440.508	0.5	PASS
		2480	1.104	2479.404	2480.508	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	1.0270	2401.4424	2402.4694
		2440	1.0280	2439.4425	2440.4705
		2480	1.0223	2479.4421	2480.4644
BLE_2M	Ant1	2402	2.0511	2400.9438	2402.9949
		2440	2.0455	2438.9427	2440.9882
		2480	2.0509	2478.9428	2480.9937



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	0.46	≤30	PASS
		2440	1.46	≤30	PASS
		2480	1.57	≤30	PASS
BLE_2M	Ant1	2402	0.71	≤30	PASS
		2440	1.91	≤30	PASS
		2480	2.01	≤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	-14.93	≤8.00	PASS
		2440	-13.96	≤8.00	PASS
		2480	-13.26	≤8.00	PASS
BLE_2M	Ant1	2402	-16.8	≤8.00	PASS
		2440	-15.44	≤8.00	PASS
		2480	-14.85	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

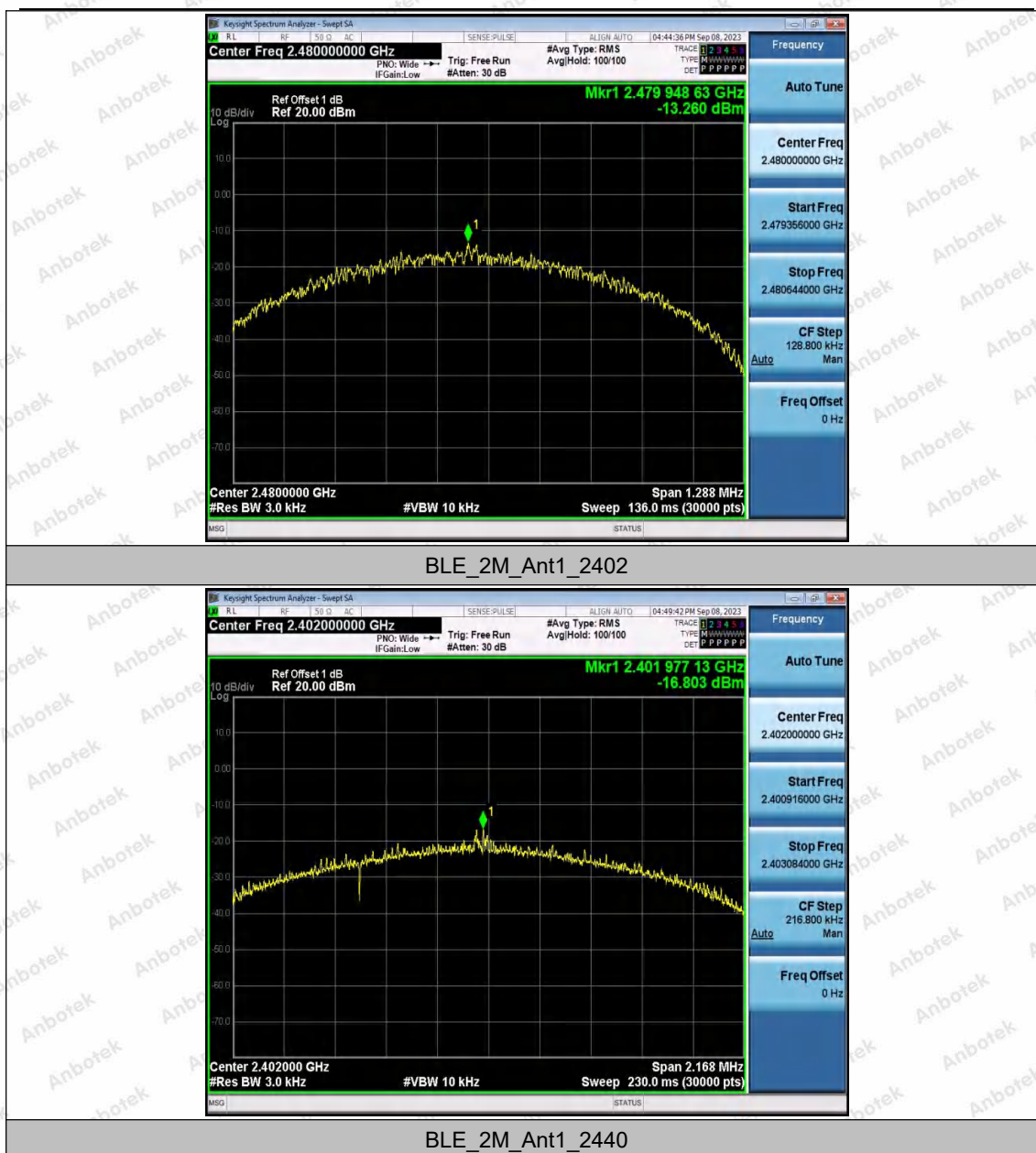
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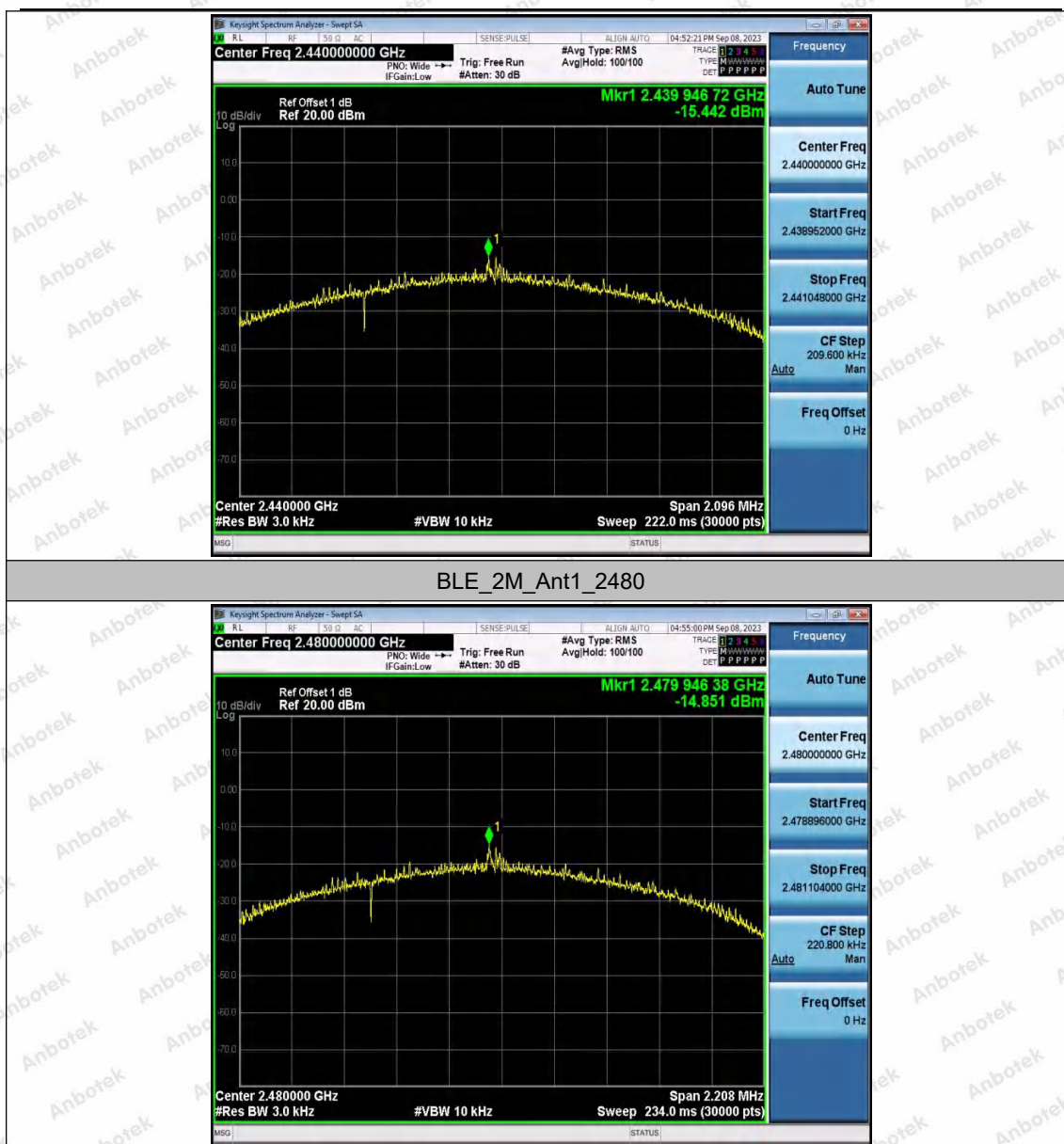
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.12	-53.4	≤-21.12	PASS
		High	2480	0.30	-56.37	≤-19.7	PASS
BLE_2M	Ant1	Low	2402	-1.23	-47.55	≤-21.23	PASS
		High	2480	-1.10	-55.87	≤-21.1	PASS

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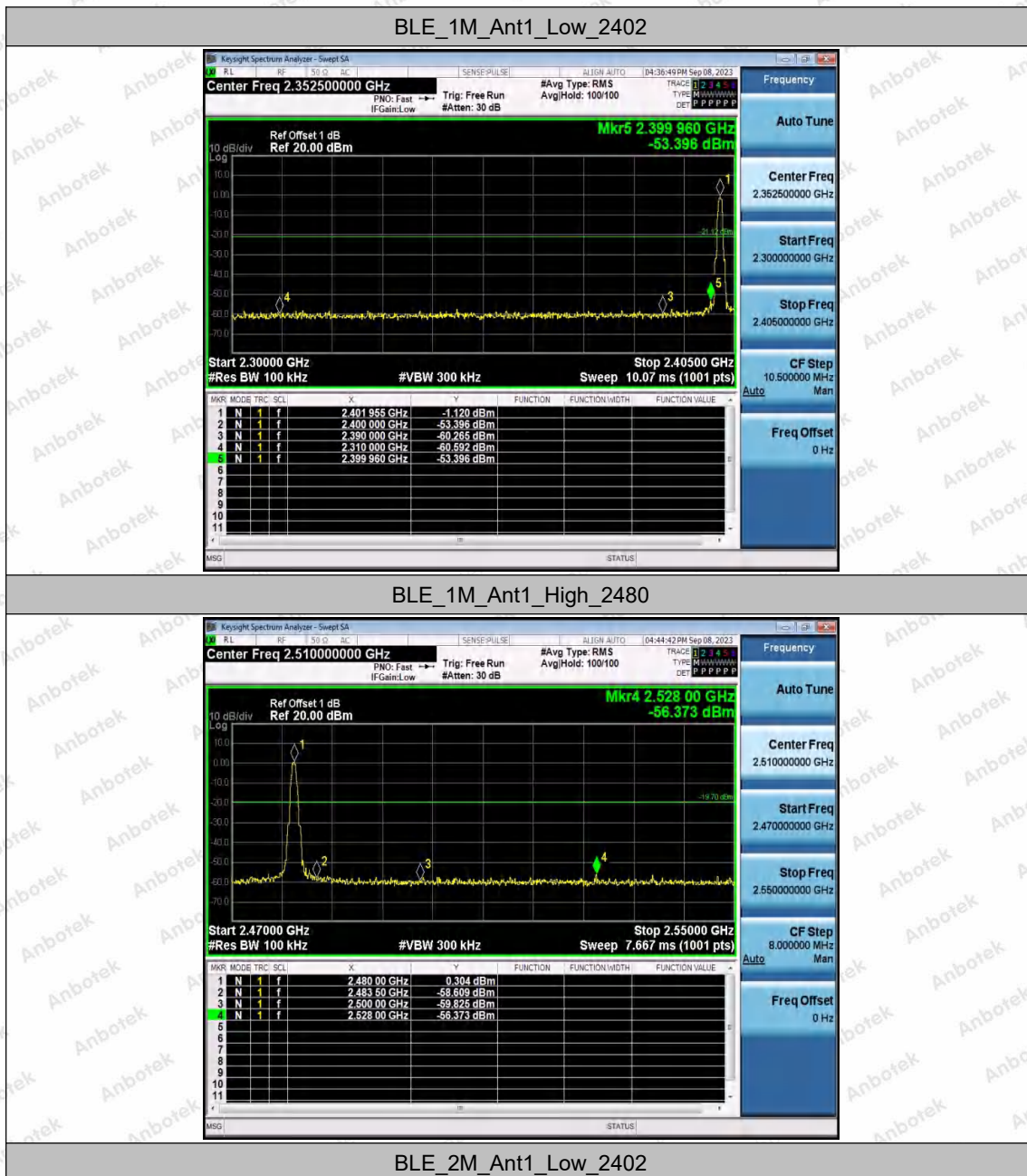
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Test Graphs



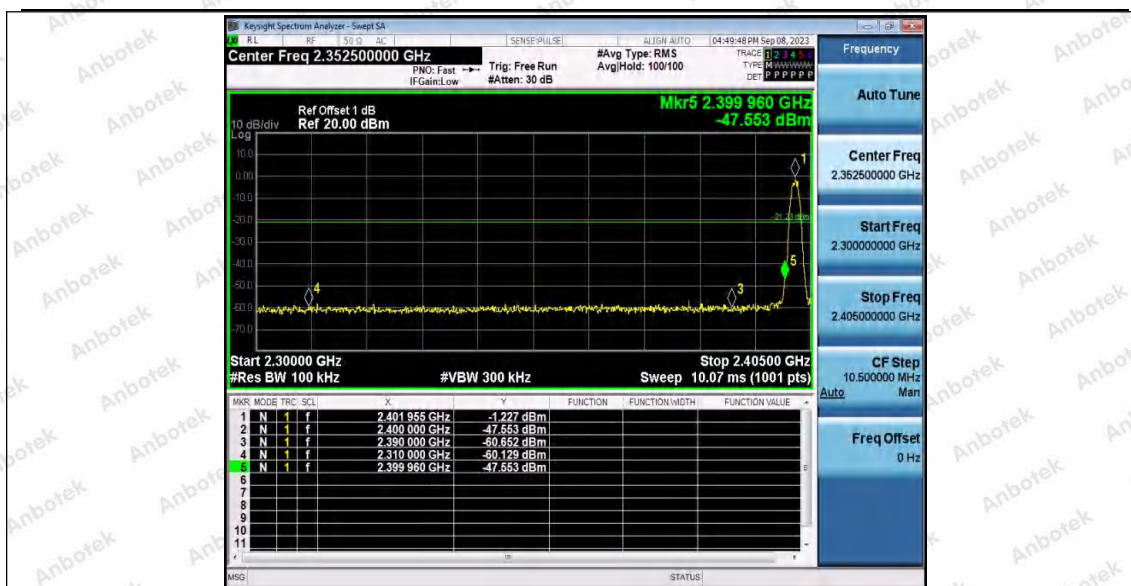
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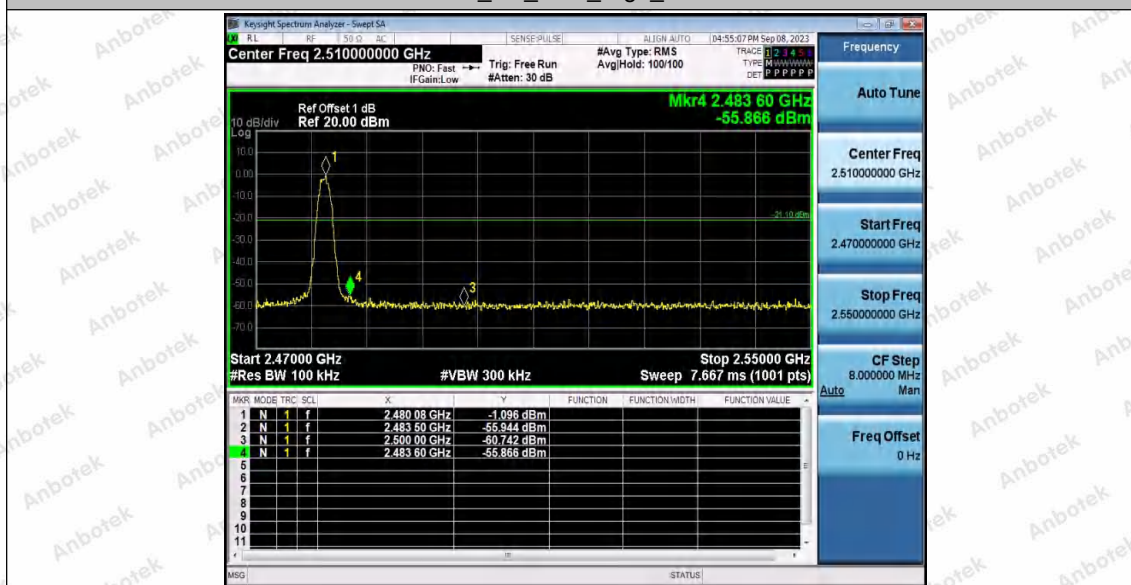


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BLE_2M_Ant1_High_2480



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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	-1.39	-1.39	---	PASS
			30~1000	-1.39	-68.58	≤-21.39	PASS
			1000~26500	-1.39	-53.6	≤-21.39	PASS
		2440	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-68.5	≤-20.68	PASS
			1000~26500	-0.68	-53.41	≤-20.68	PASS
		2480	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-67.84	≤-20.2	PASS
			1000~26500	-0.20	-53.63	≤-20.2	PASS
BLE_2M	Ant1	2402	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-69.11	≤-20.72	PASS
			1000~26500	-0.72	-52.74	≤-20.72	PASS
		2440	Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-69.22	≤-22.57	PASS
			1000~26500	-2.57	-54.1	≤-22.57	PASS
		2480	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-68.69	≤-19.08	PASS
			1000~26500	0.92	-53.71	≤-19.08	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

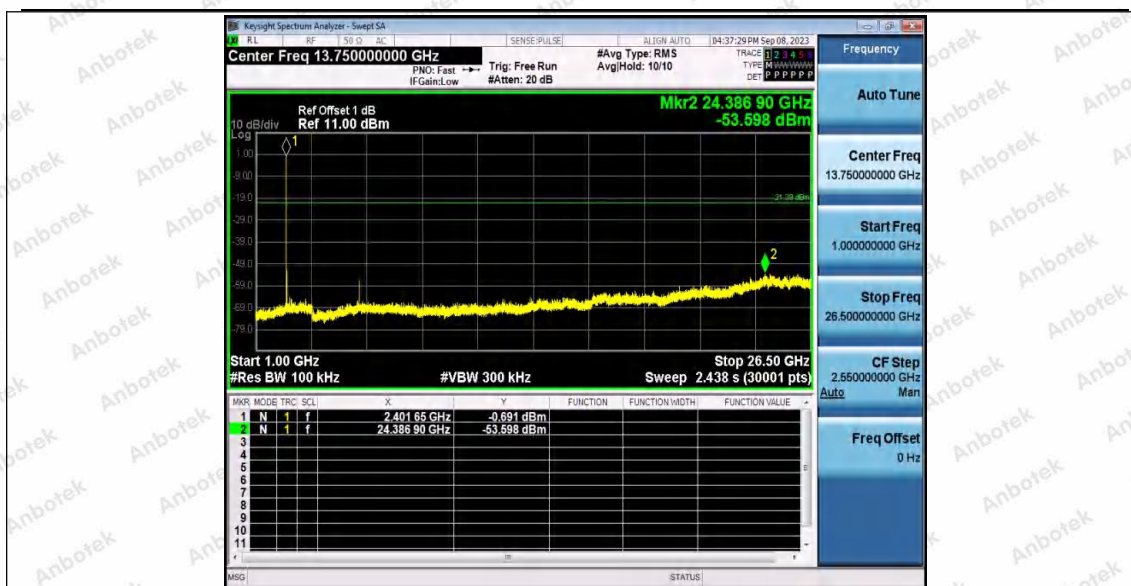
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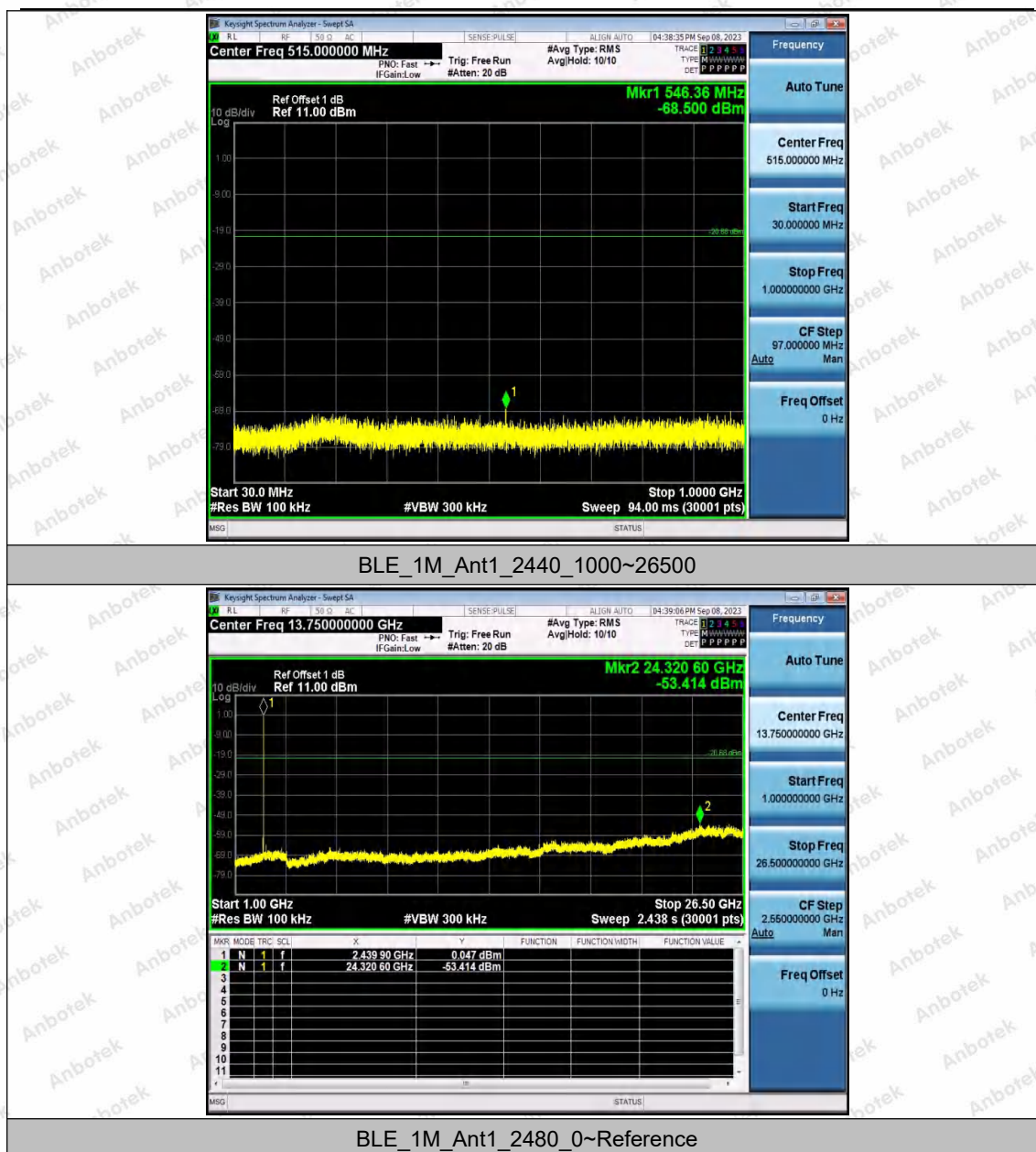


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





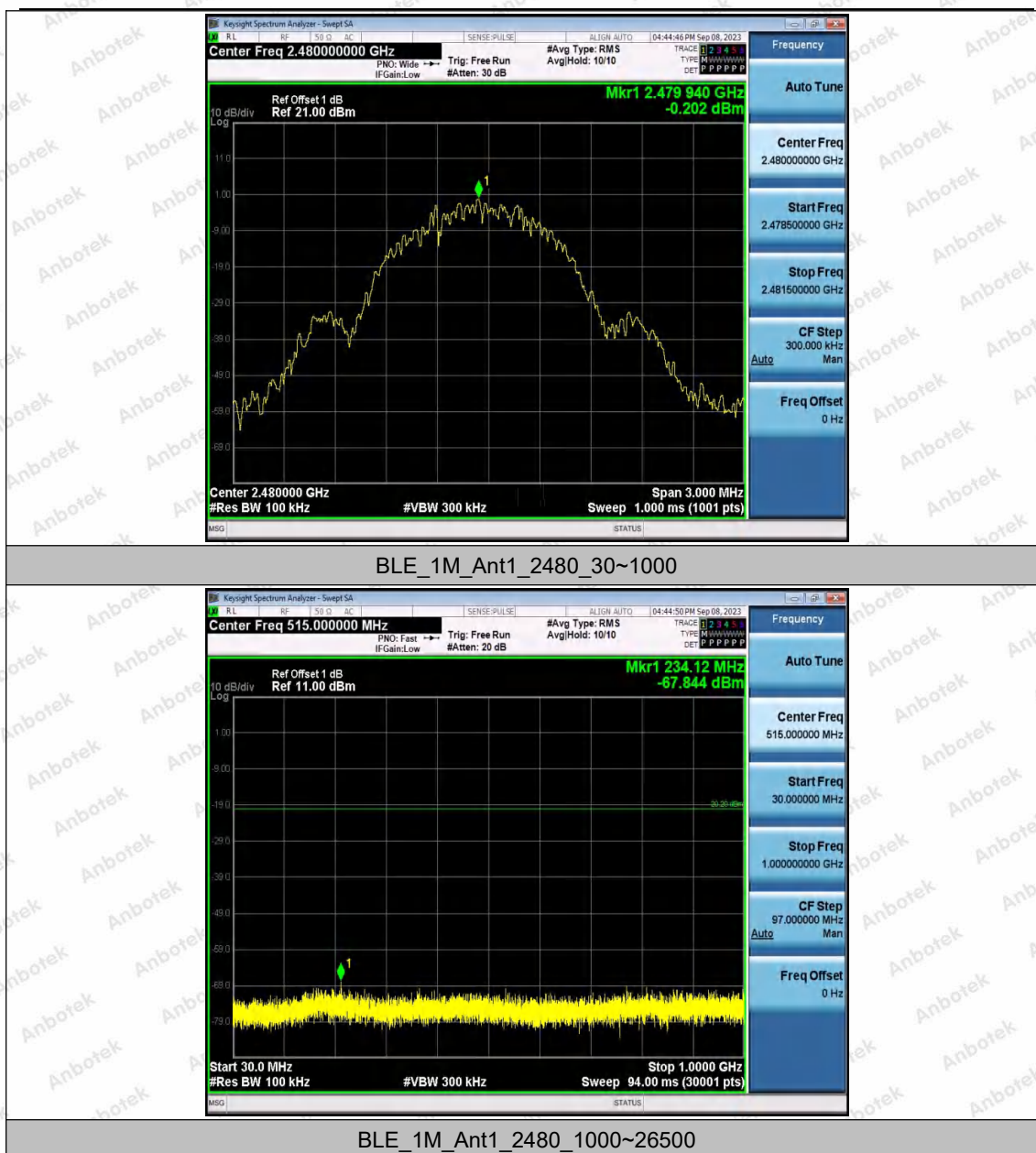
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BLE_2M_Ant1_2402_30~1000

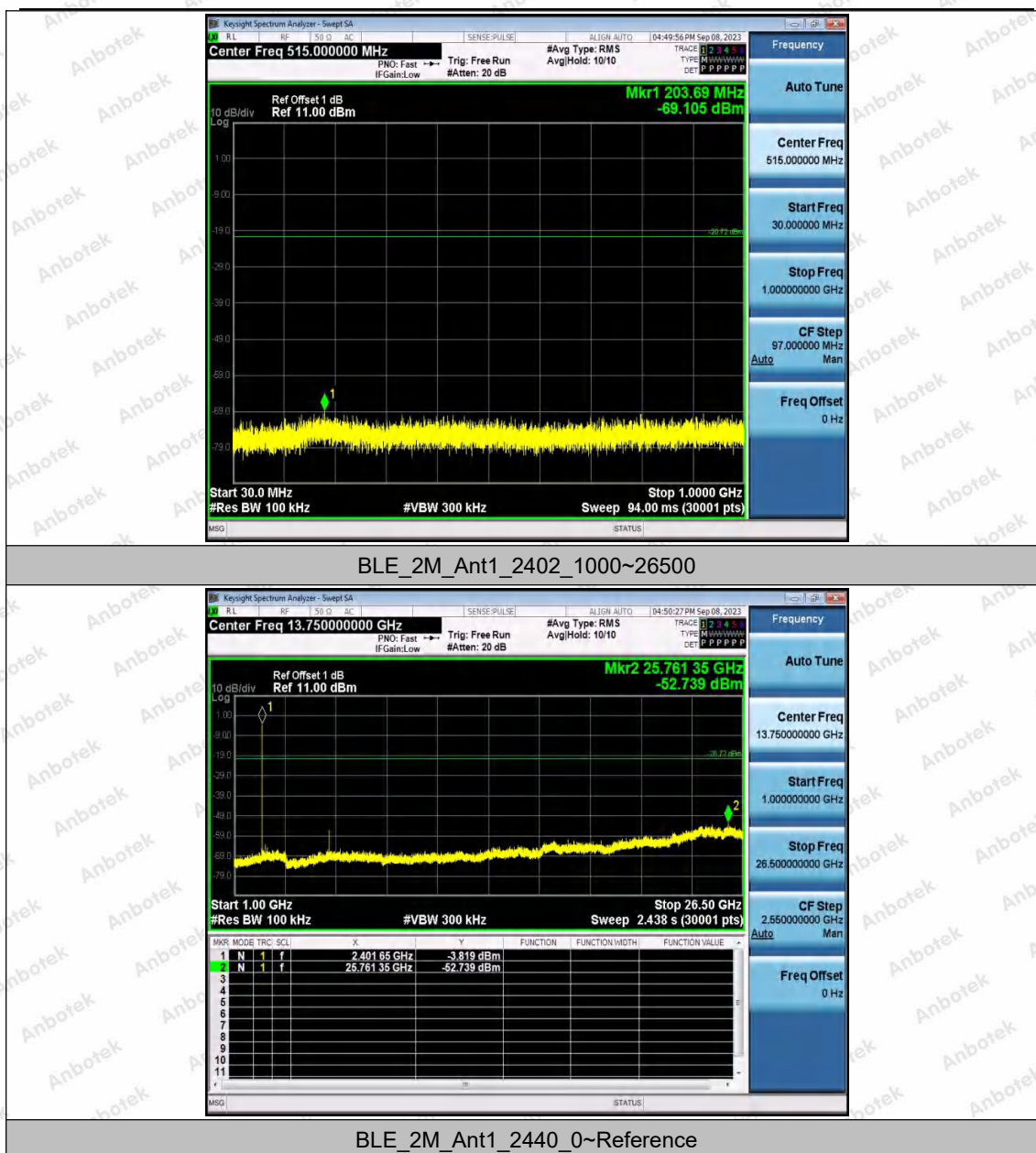
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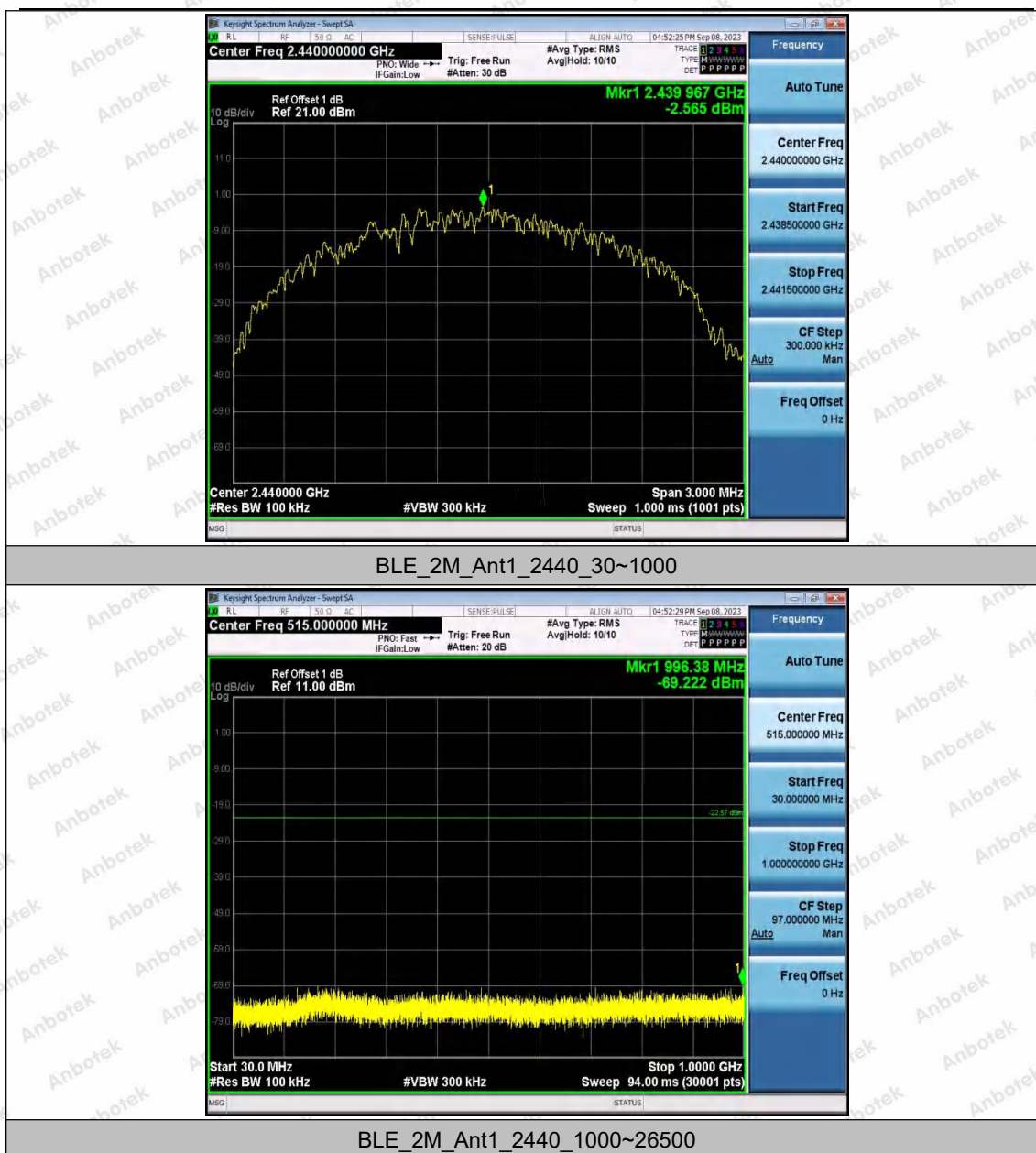
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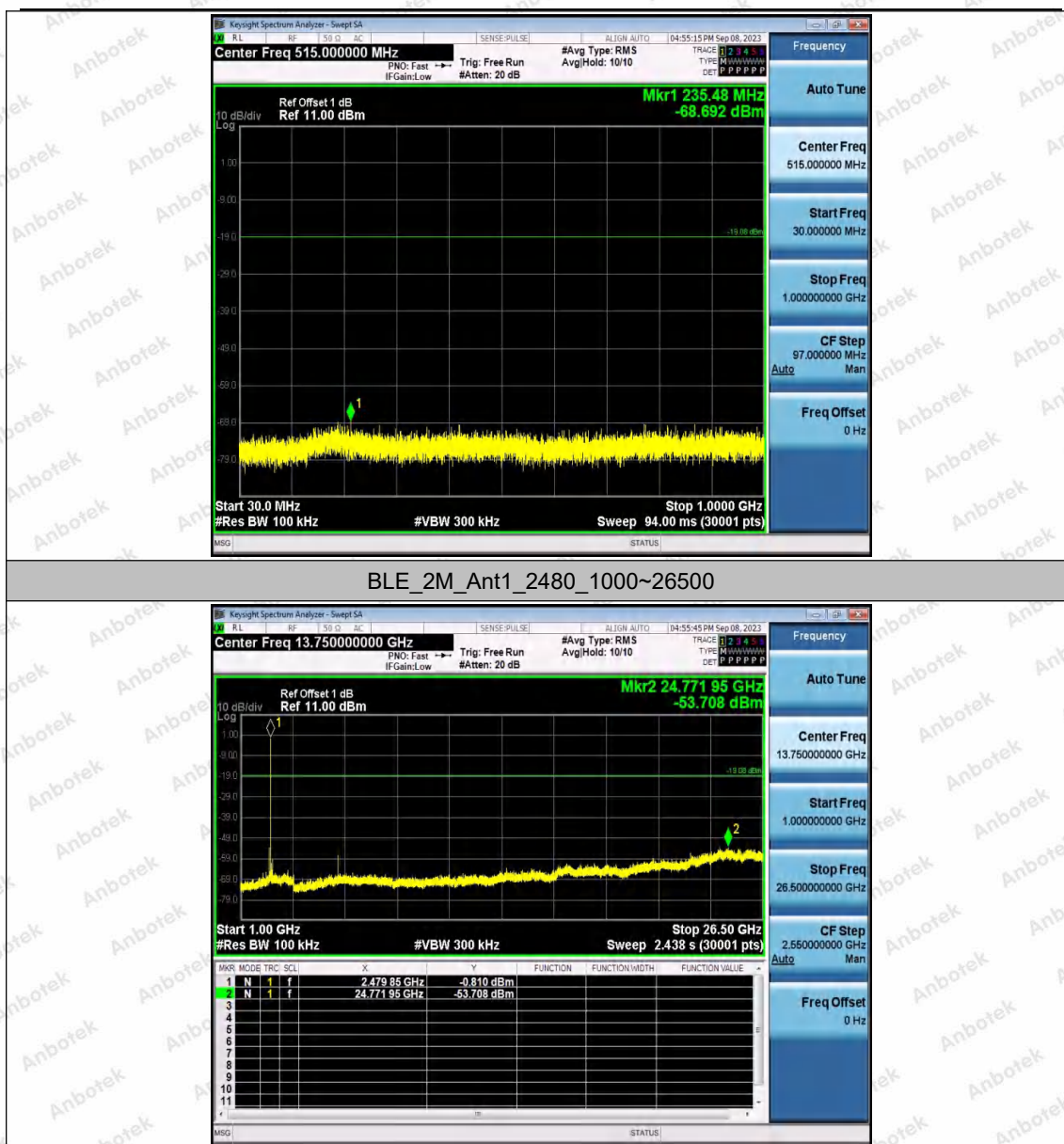


BLE_2M_Ant1_2480_0~Reference



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	1.88	56.38	2.49
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.87	56.68	2.47

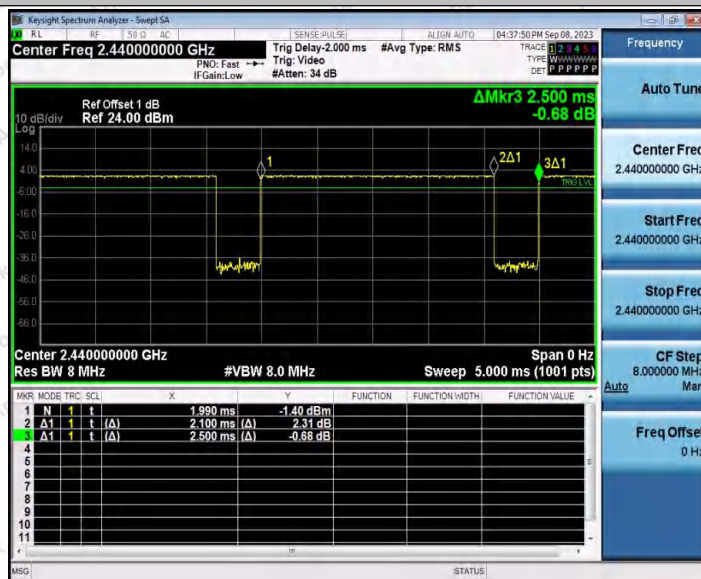


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

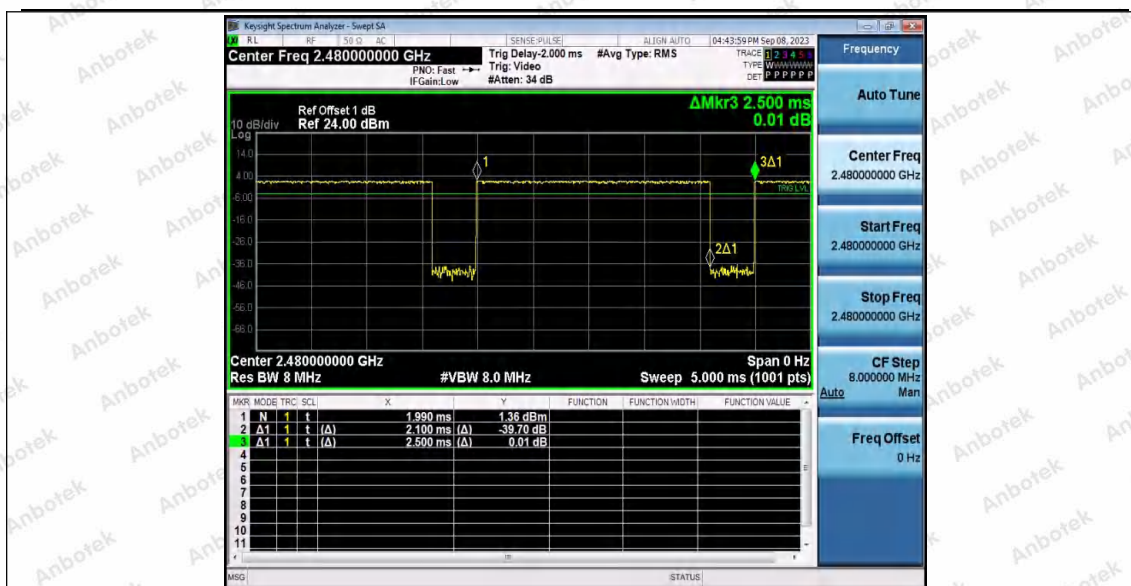
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

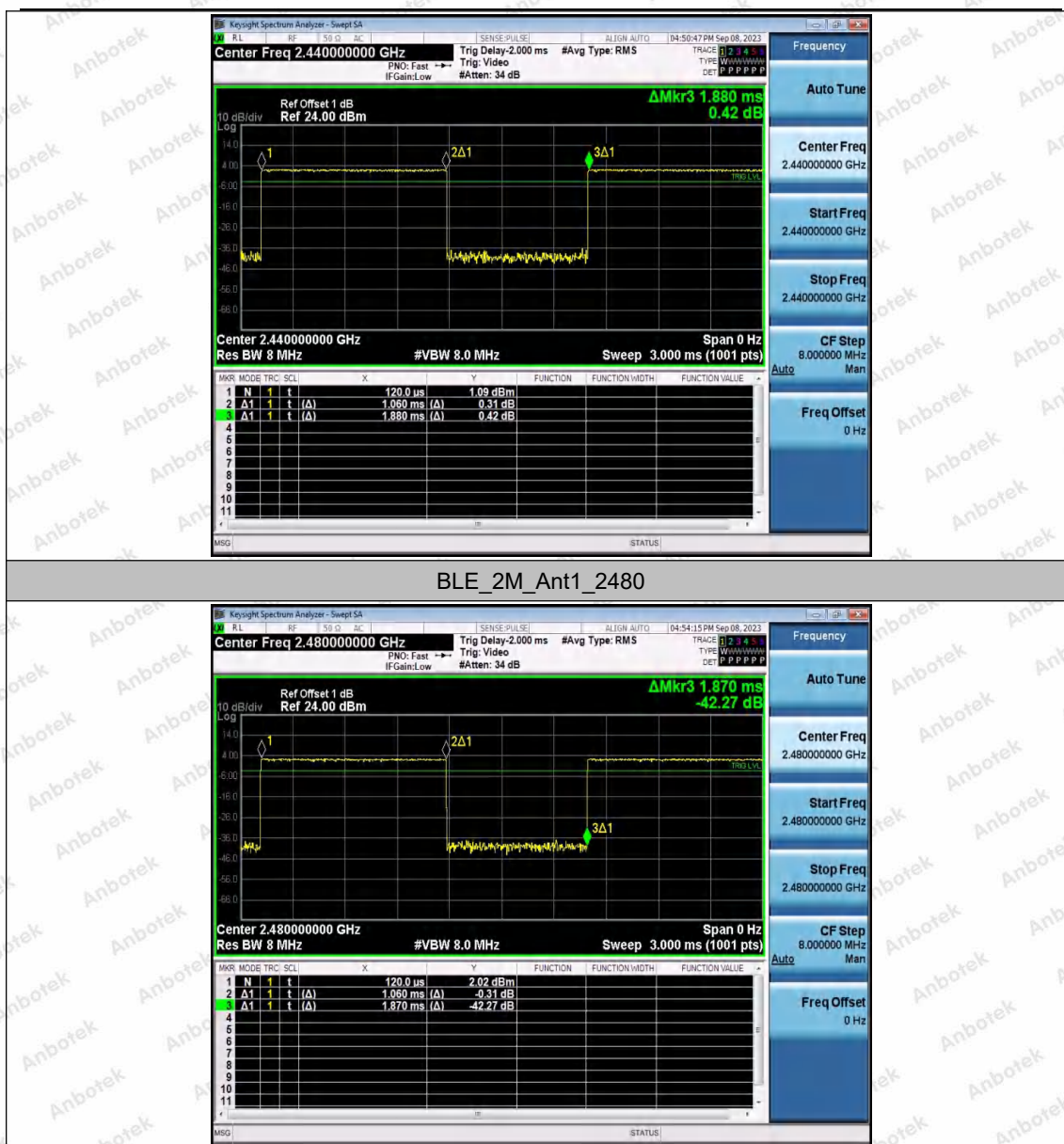
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