

Appendix Test Data

Report No.:	18220WC30099401	Test Sample No.:	1-2-2
Start Test Date:	2023.05.24	Finish Test Date:	2023.05.24
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	24.3C°	Relative Humidity:	49%
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	0.616	2401.652	2402.268	0.5	PASS
		2440	0.652	2439.632	2440.284	0.5	PASS
		2480	0.624	2479.644	2480.268	0.5	PASS
BLE_2M	Ant1	2402	1.092	2401.404	2402.496	0.5	PASS
		2440	1.000	2439.424	2440.424	0.5	PASS
		2480	1.080	2479.416	2480.496	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	1.0245	2401.4495	2402.4740
		2440	1.0340	2439.4423	2440.4763
		2480	1.0290	2479.4391	2480.4681
BLE_2M	Ant1	2402	2.0557	2400.9349	2402.9906
		2440	2.0430	2438.9394	2440.9824
		2480	2.0394	2478.9464	2480.9858



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	-0.94	≤30	PASS
		2440	-0.67	≤30	PASS
		2480	-0.45	≤30	PASS
BLE_2M	Ant1	2402	-0.77	≤30	PASS
		2440	-0.64	≤30	PASS
		2480	-0.15	≤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	-16.23	≤8.00	PASS
		2440	-16.24	≤8.00	PASS
		2480	-16.13	≤8.00	PASS
BLE_2M	Ant1	2402	-17.8	≤8.00	PASS
		2440	-17.86	≤8.00	PASS
		2480	-17.46	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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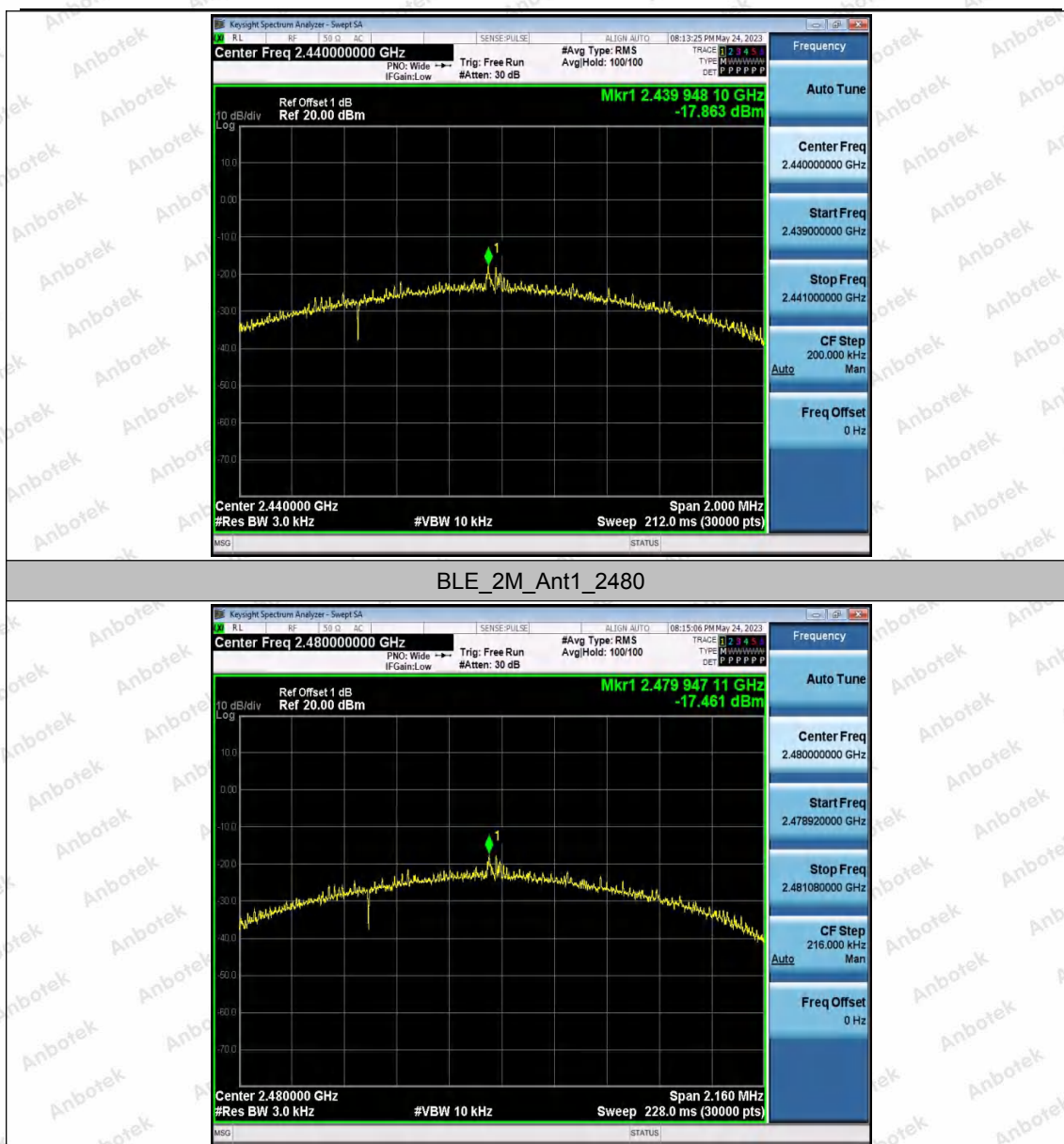
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Appendix E: Band edge measurements

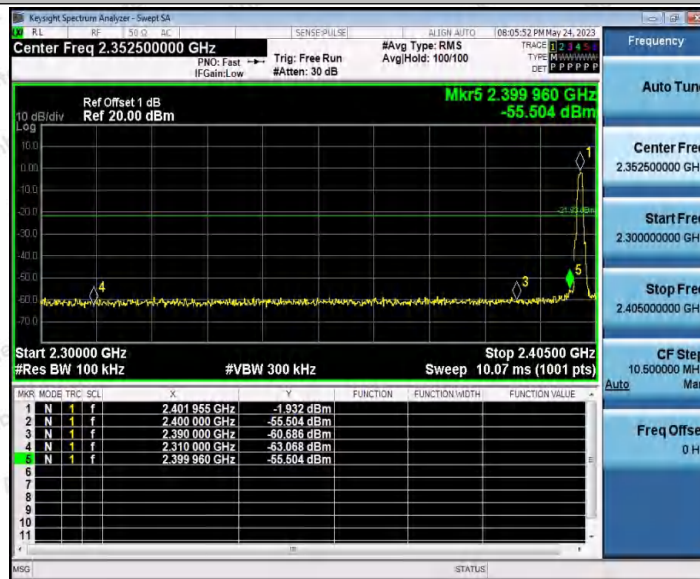
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.93	-55.5	≤-21.93	PASS
		High	2480	-1.21	-56.18	≤-21.21	PASS
BLE_2M	Ant1	Low	2402	-4.01	-49.22	≤-24.01	PASS
		High	2480	-2.42	-57.29	≤-22.42	PASS

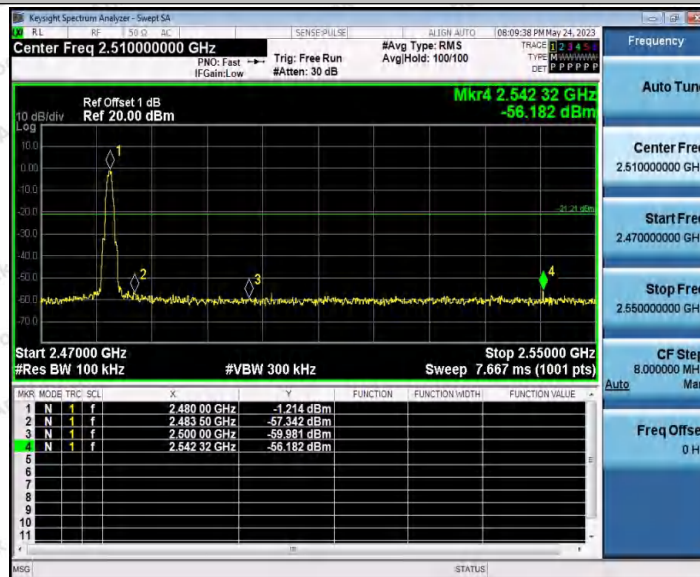


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

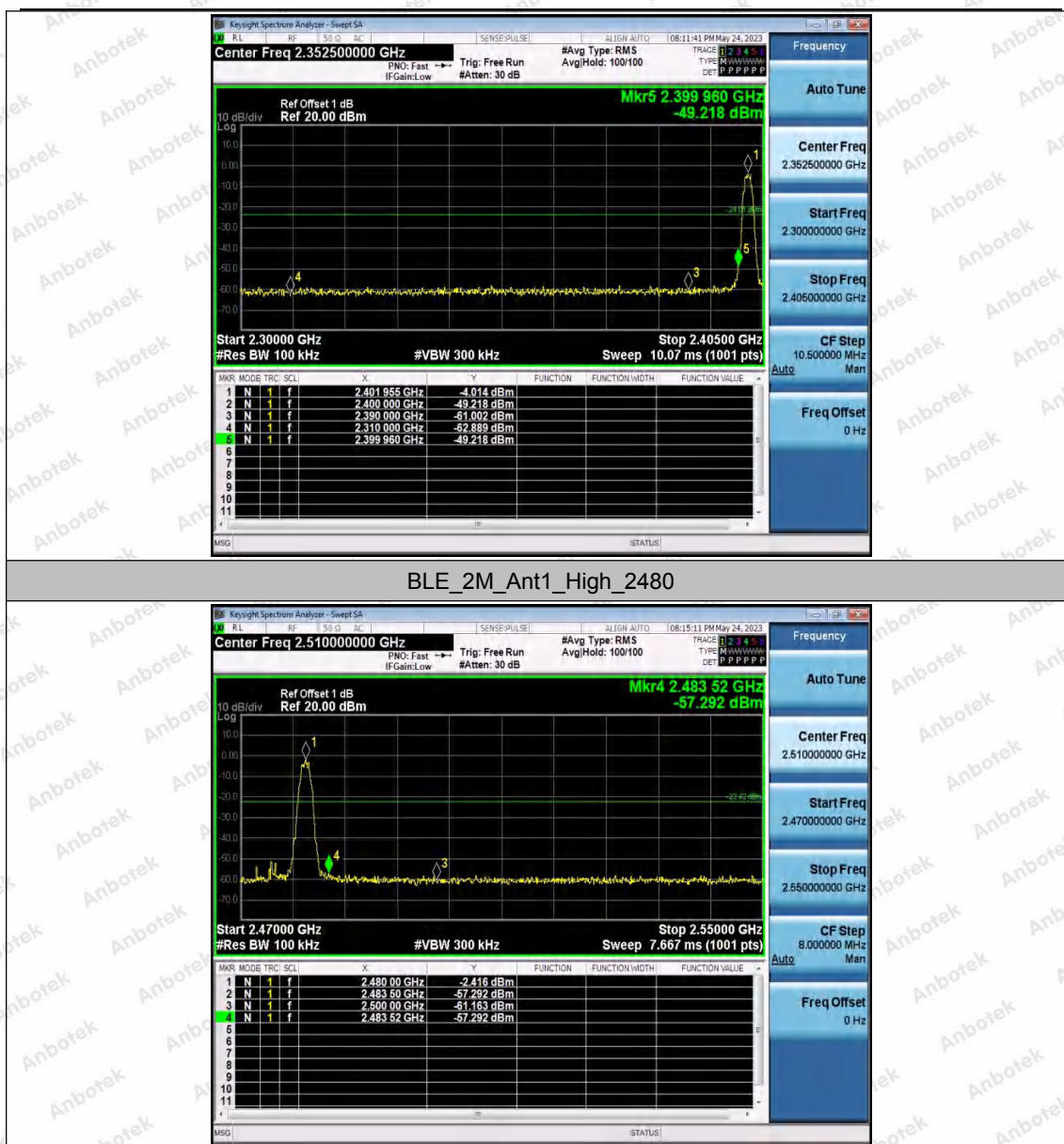
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-68.59	≤-22.92	PASS
			1000~26500	-2.92	-53.49	≤-22.92	PASS
		2440	Reference	-2.89	-2.89	---	PASS
			30~1000	-2.89	-68.11	≤-22.89	PASS
			1000~26500	-2.89	-52.87	≤-22.89	PASS
		2480	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-67.9	≤-22.95	PASS
			1000~26500	-2.95	-53.13	≤-22.95	PASS
BLE_2M	Ant1	2402	Reference	-4.95	-4.95	---	PASS
			30~1000	-4.95	-69.17	≤-24.95	PASS
			1000~26500	-4.95	-53.3	≤-24.95	PASS
		2440	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-69.26	≤-21.18	PASS
			1000~26500	-1.18	-52.87	≤-21.18	PASS
		2480	Reference	-3.68	-3.68	---	PASS
			30~1000	-3.68	-67.86	≤-23.68	PASS
			1000~26500	-3.68	-53.53	≤-23.68	PASS

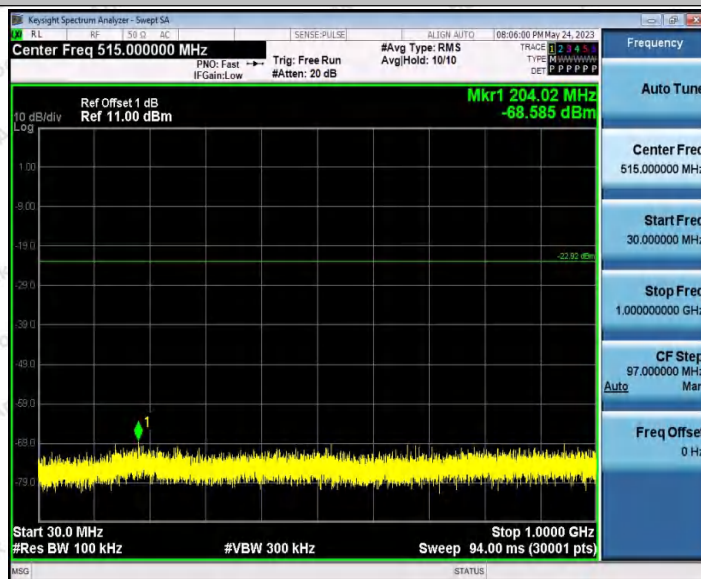


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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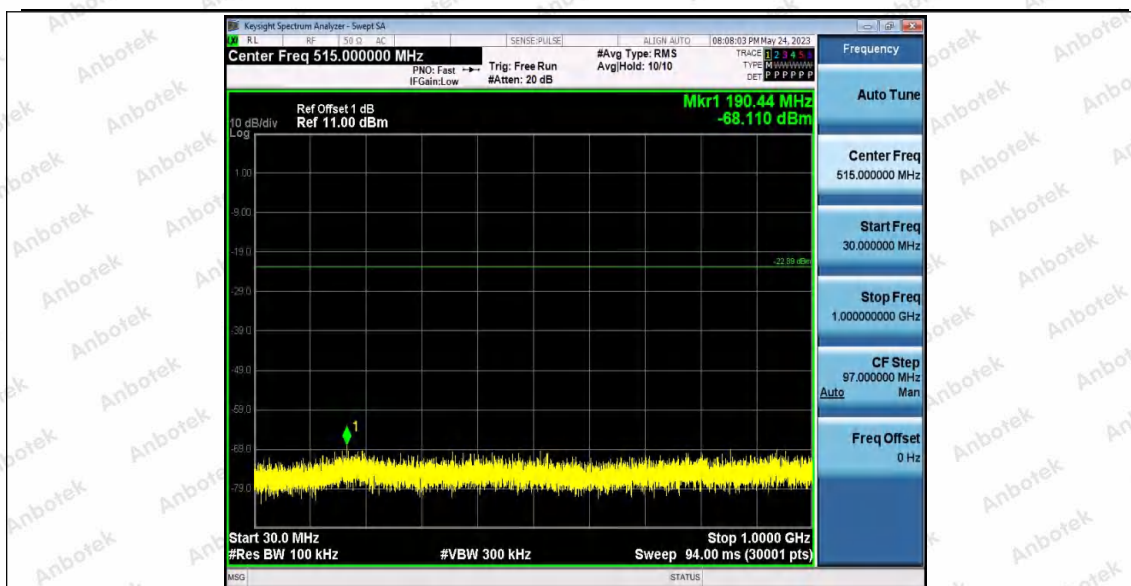


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



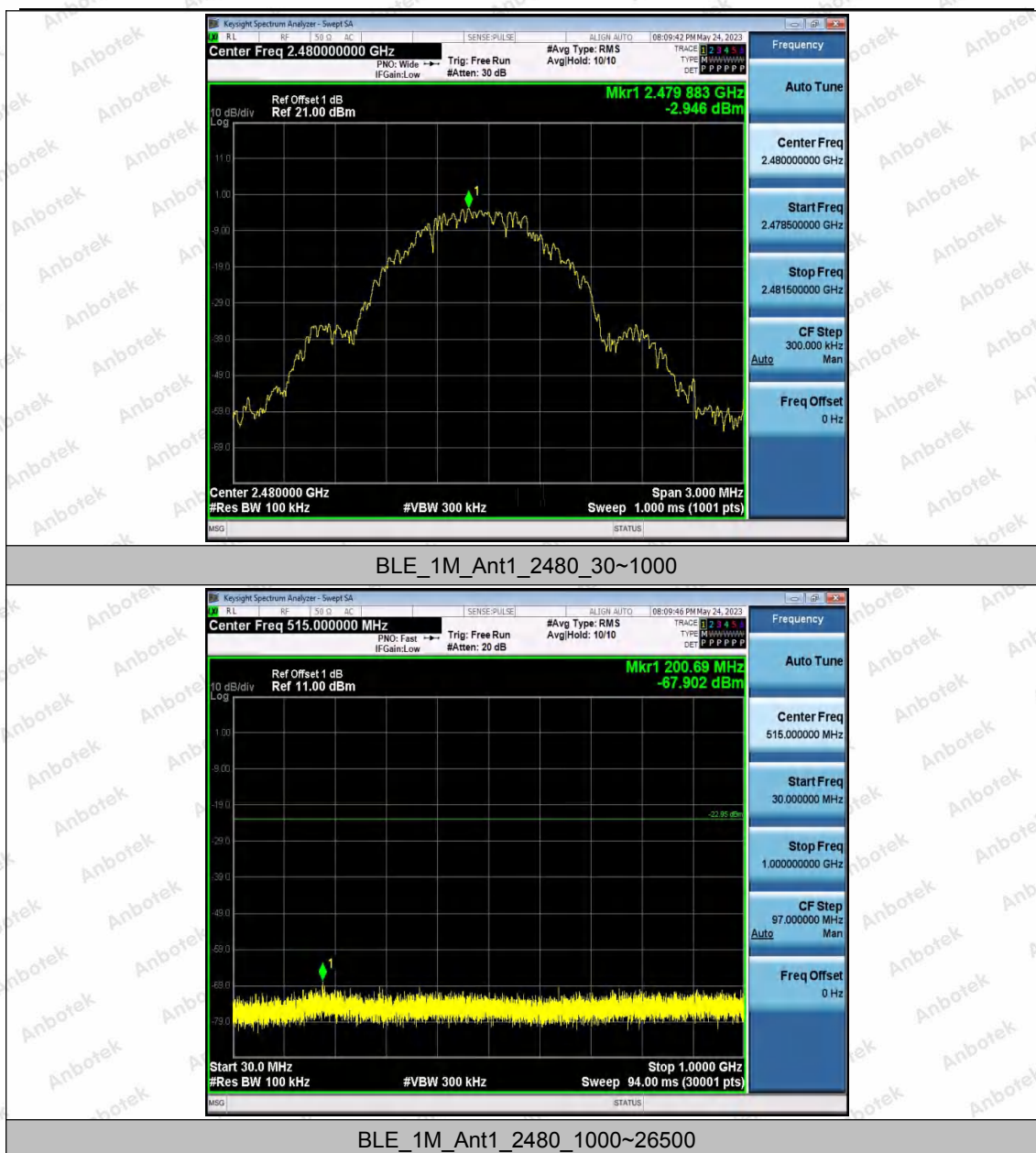


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



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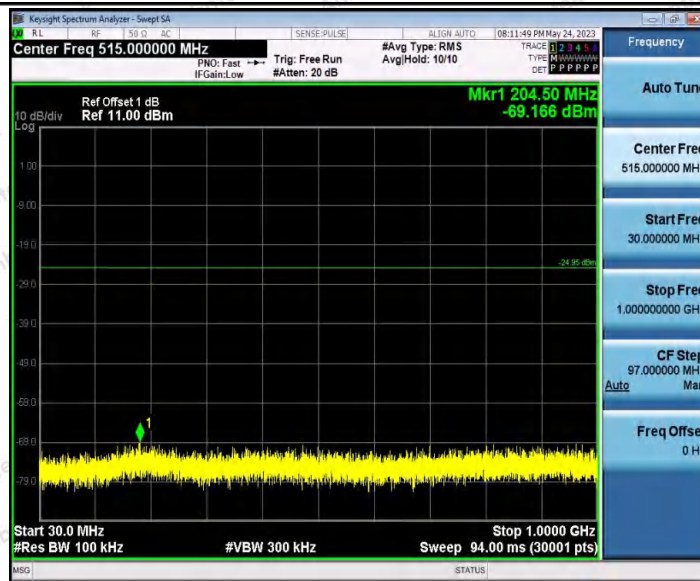


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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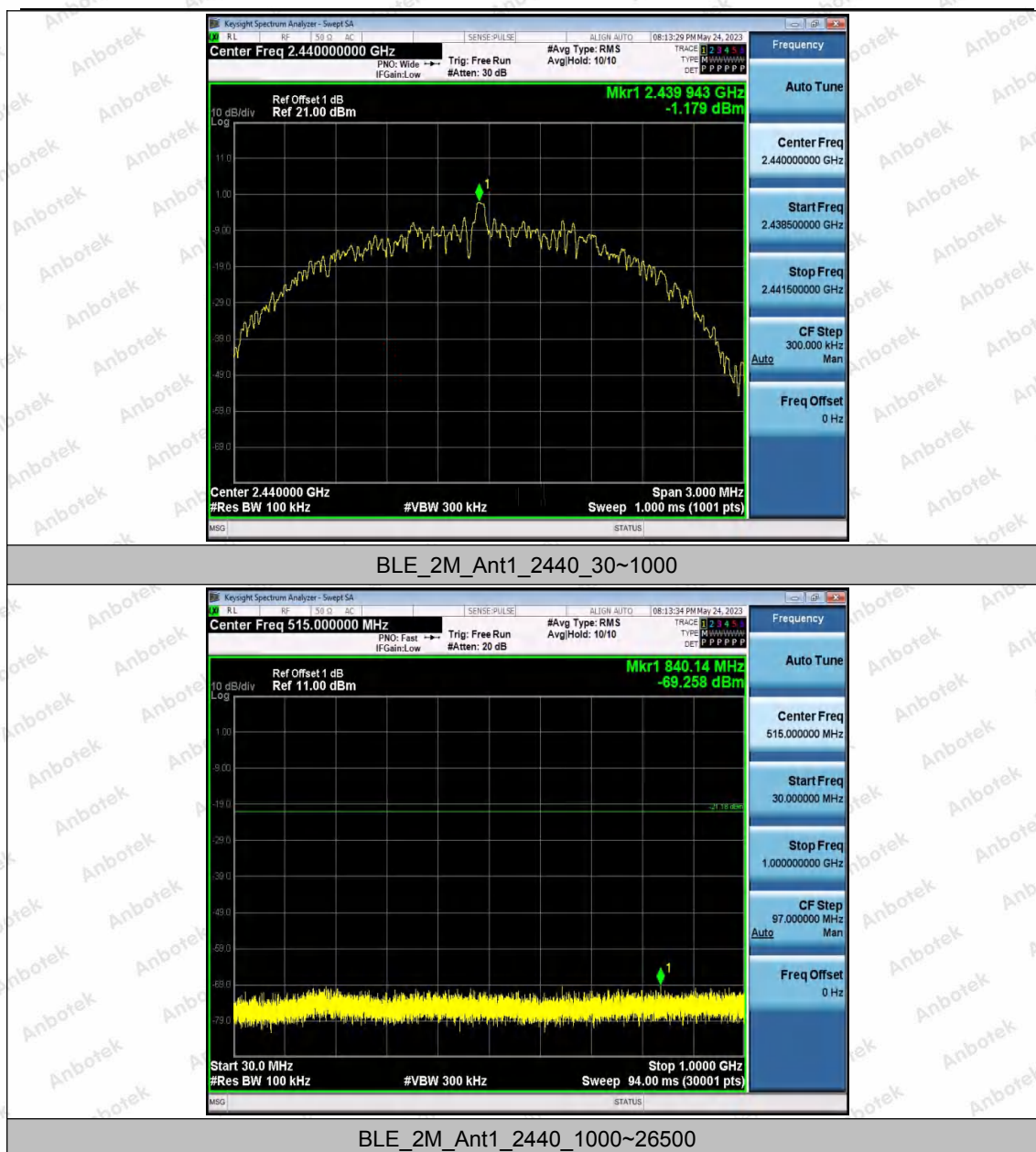


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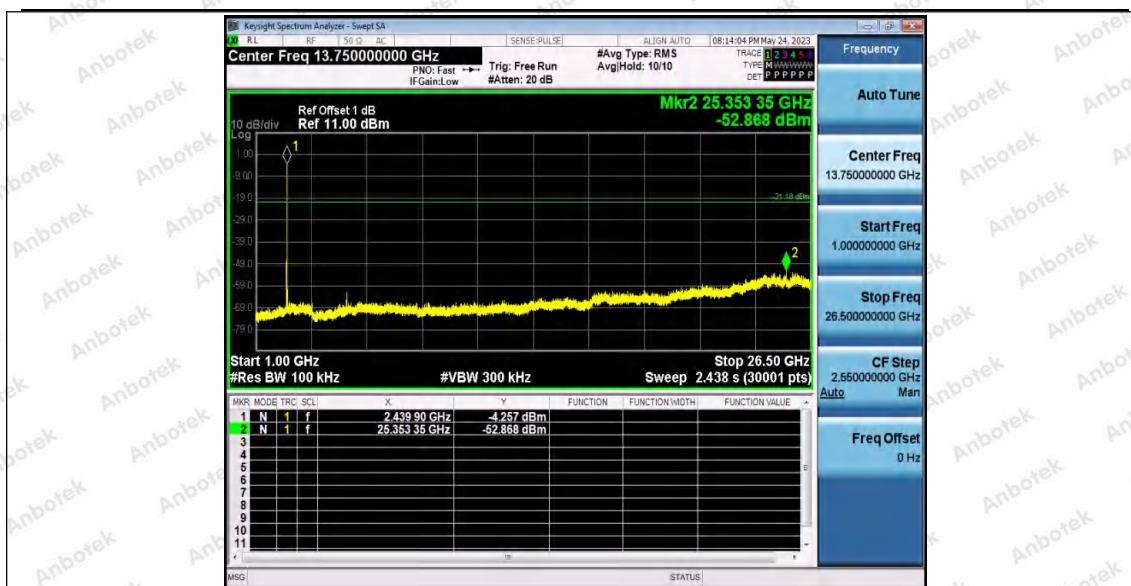
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

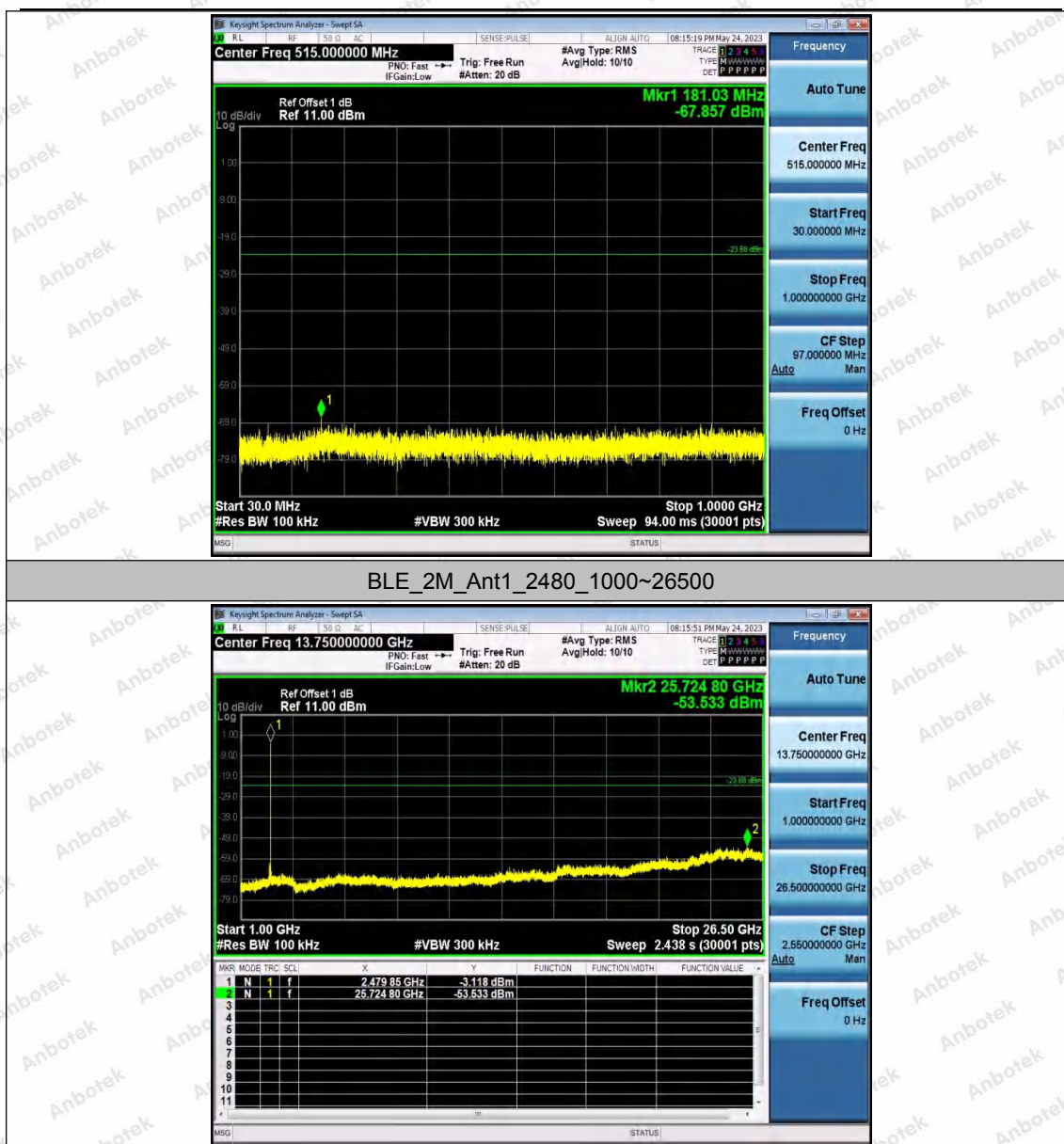
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Appendix G: Duty Cycle

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

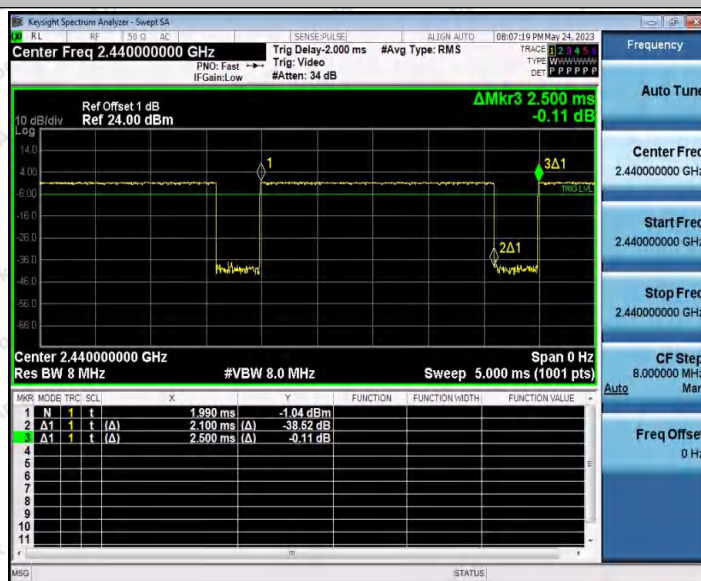


Test Graphs

BLE_1M_Ant1_2402

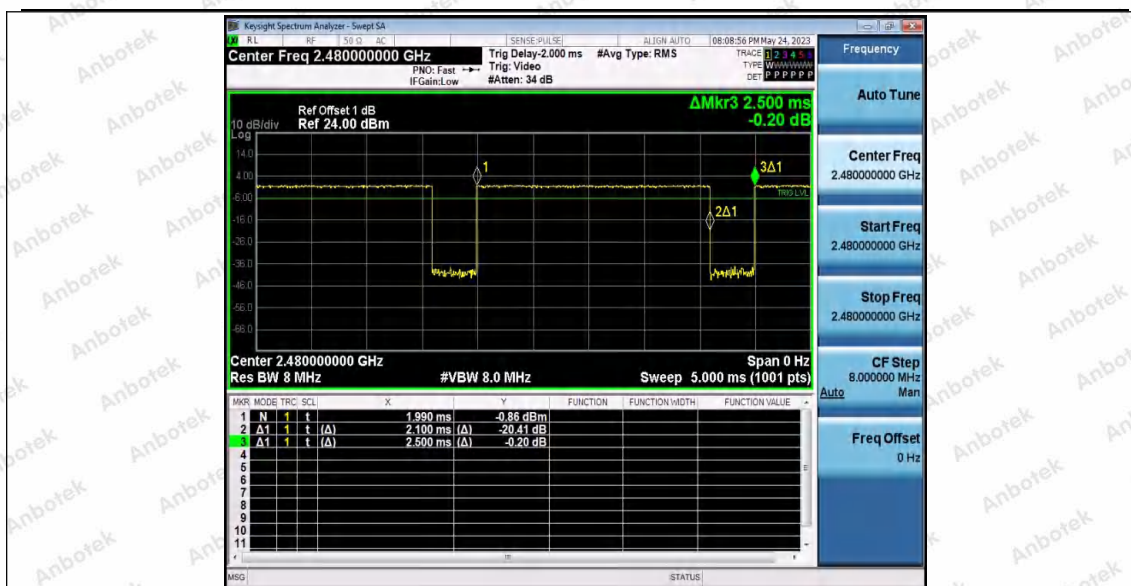


BLE_1M_Ant1_2440

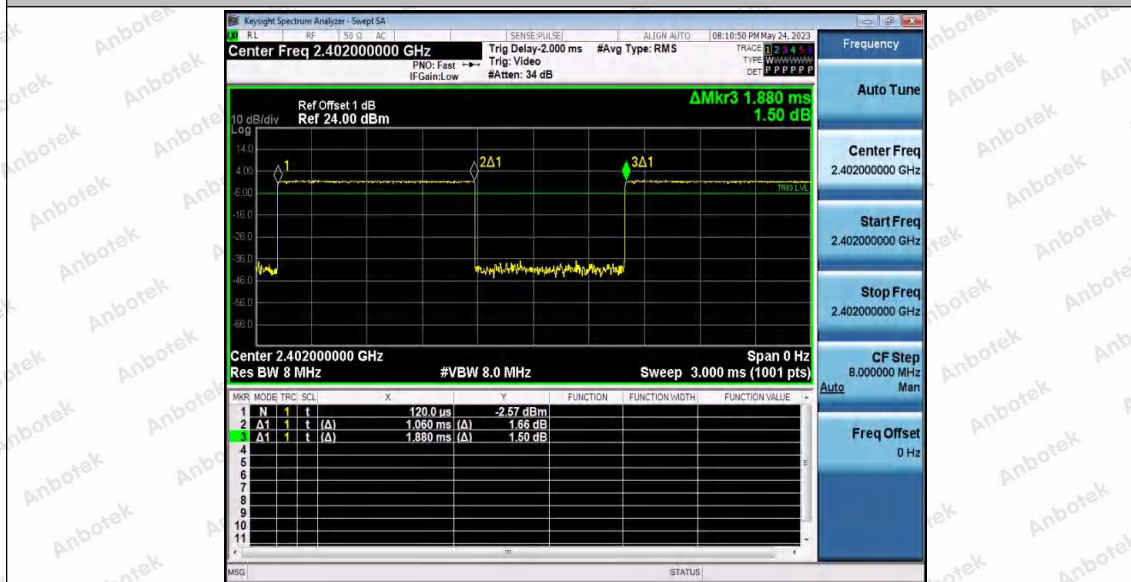


BLE_1M_Ant1_2480



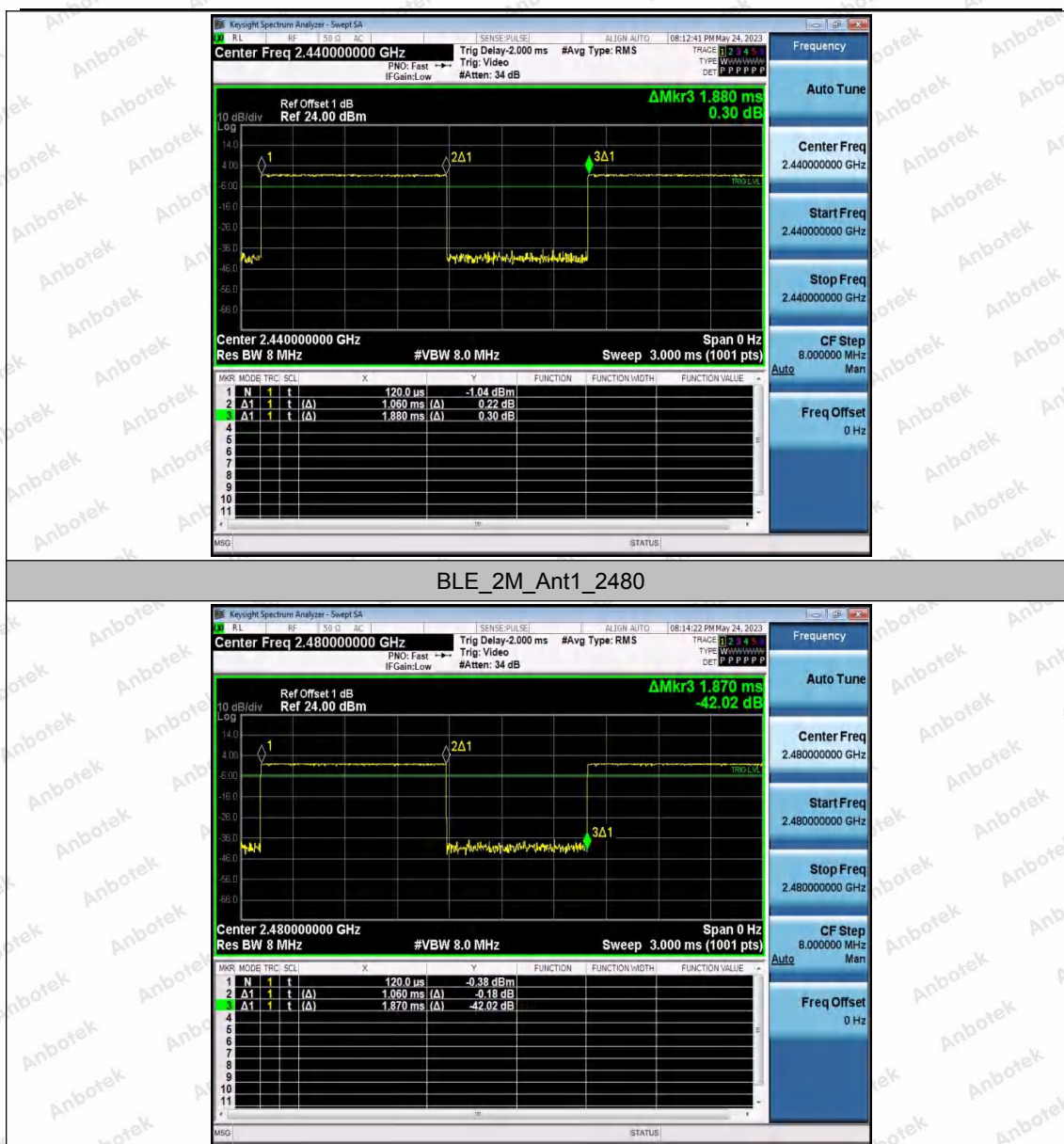


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

