

Appendix Test Data

Report No.:	18220WC30021101	Test Sample No.:	1-2-2
Start Test Date:	2023.02.15	Finish Test Date:	2023.02.17
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.5°C	Relative Humidity:	42 %
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	0.700	2401.660	2402.360	0.5	PASS
		2440	0.696	2439.672	2440.368	0.5	PASS
		2480	0.712	2479.660	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.448	2402.592	0.5	PASS
		2440	1.160	2439.444	2440.604	0.5	PASS
		2480	1.220	2479.360	2480.580	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	1.0500	2401.4848	2402.5348
		2440	1.0495	2439.4897	2440.5392
		2480	1.0560	2479.4843	2480.5403
BLE_2M	Ant1	2402	2.0630	2400.9948	2403.0578
		2440	2.0691	2438.9896	2441.0587
		2480	2.0699	2478.9873	2481.0572



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	1.86	≤30	PASS
		2440	1.57	≤30	PASS
		2480	0.97	≤30	PASS
BLE_2M	Ant1	2402	1.74	≤30	PASS
		2440	1.44	≤30	PASS
		2480	0.89	≤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	-13.89	≤8.00	PASS
		2440	-14.22	≤8.00	PASS
		2480	-14.8	≤8.00	PASS
BLE_2M	Ant1	2402	-17.26	≤8.00	PASS
		2440	-17.72	≤8.00	PASS
		2480	-18.26	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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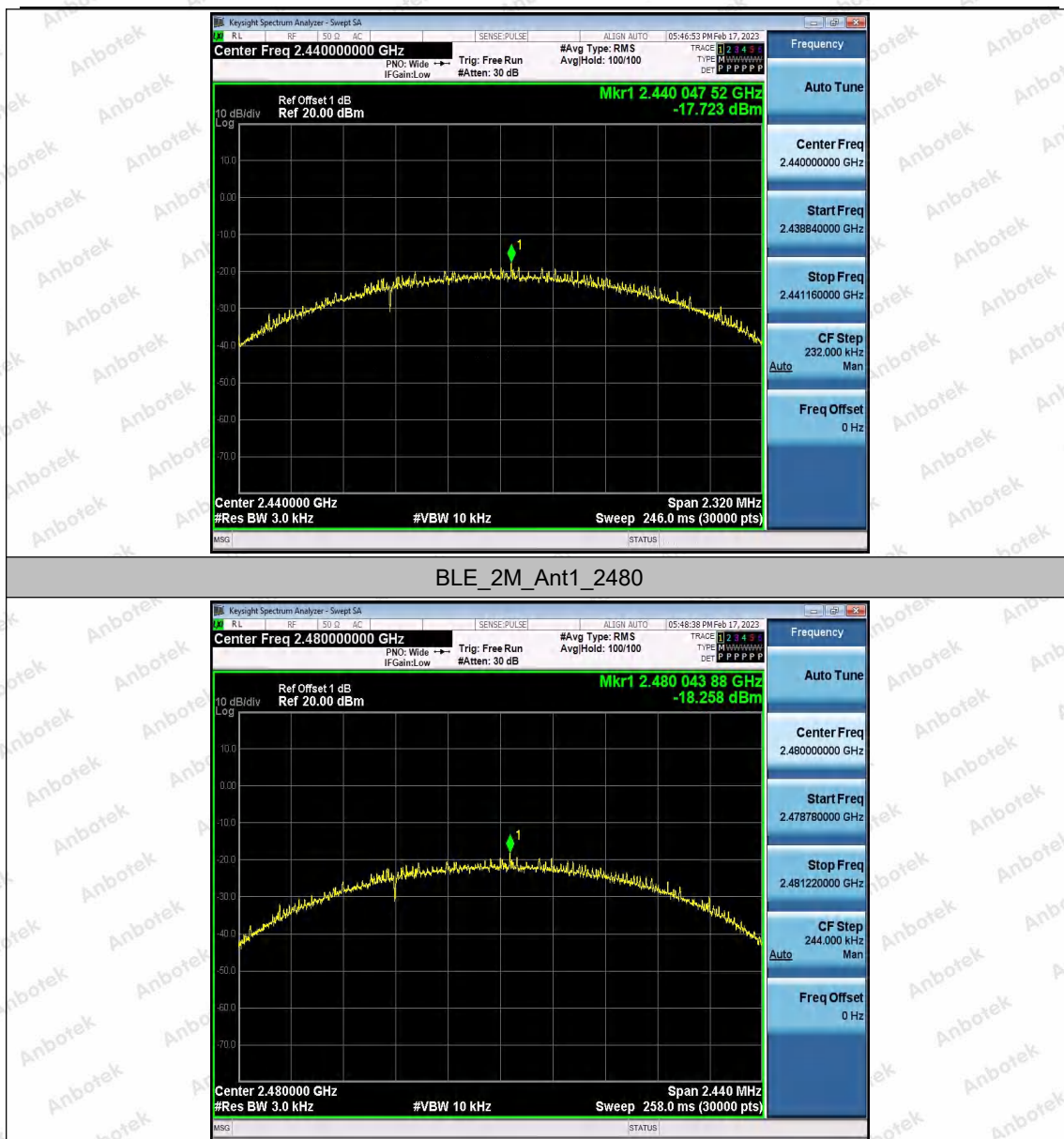


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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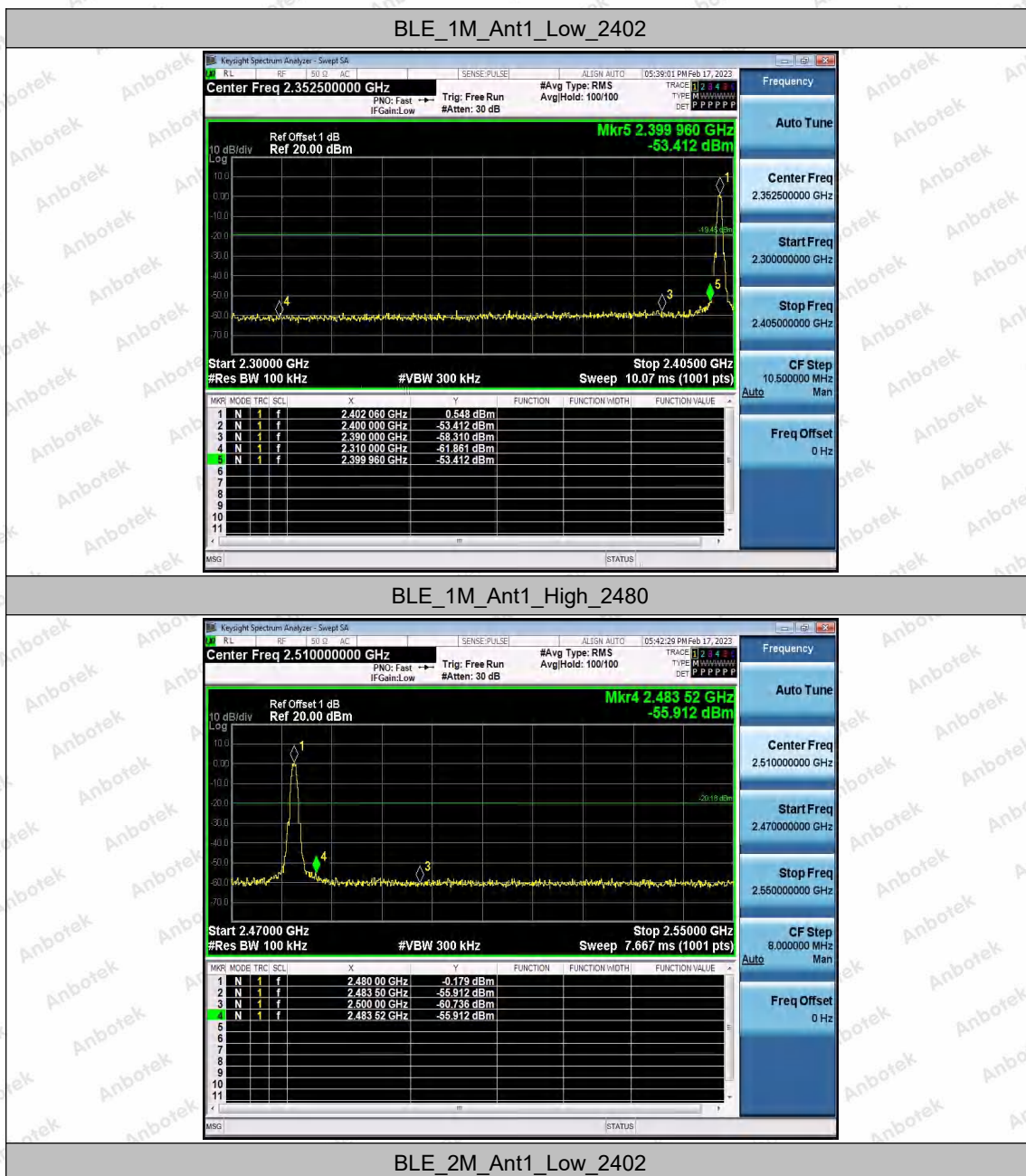
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.55	-53.41	≤-19.45	PASS
		High	2480	-0.18	-55.91	≤-20.18	PASS
BLE_2M	Ant1	Low	2402	-0.96	-32.34	≤-20.96	PASS
		High	2480	-0.02	-56.21	≤-20.02	PASS



Test Graphs



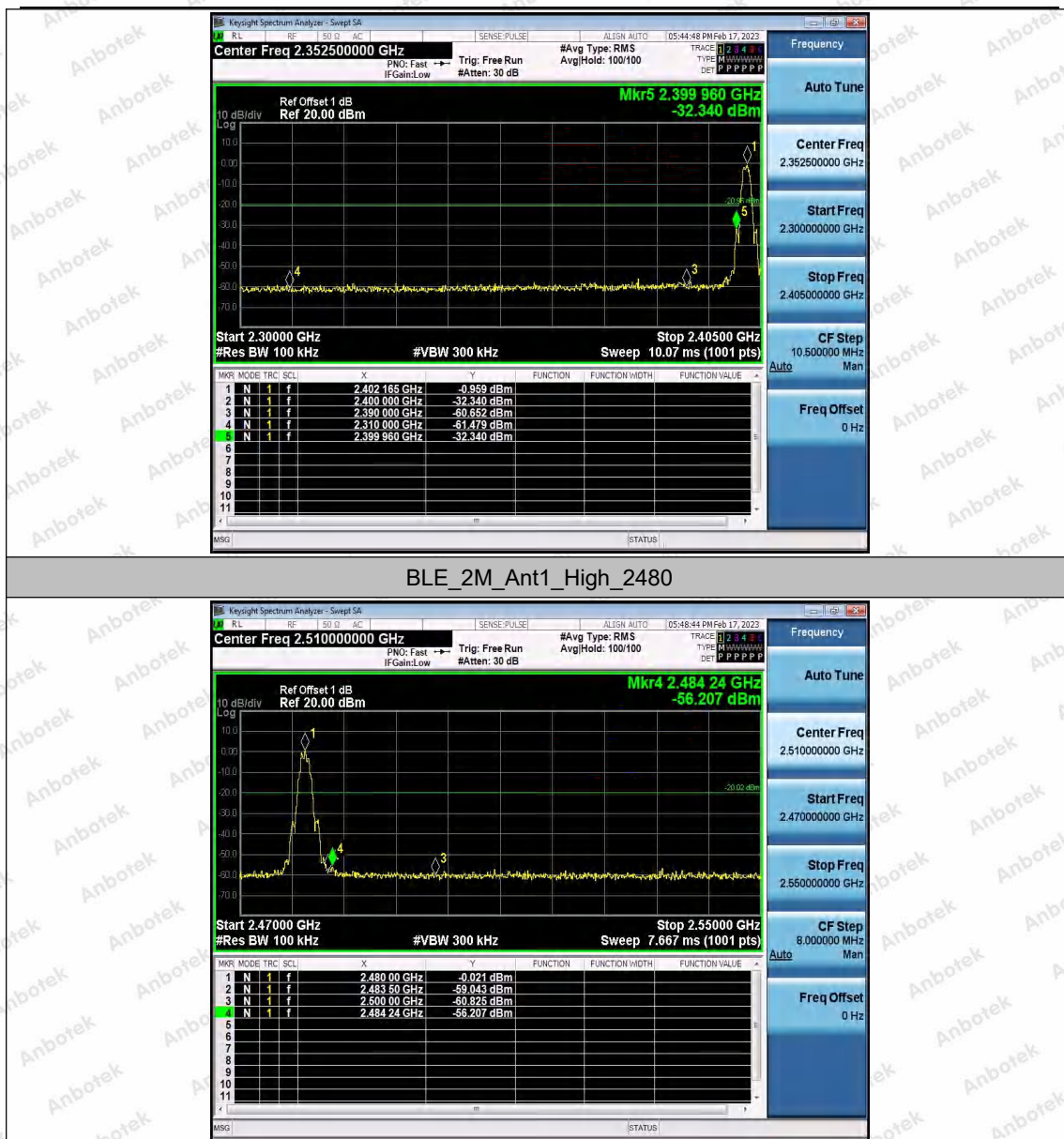
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-68.59	≤-19.34	PASS
			1000~26500	0.66	-53.51	≤-19.34	PASS
		2440	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-68.44	≤-19.74	PASS
			1000~26500	0.26	-52.85	≤-19.74	PASS
		2480	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-68.67	≤-21.14	PASS
			1000~26500	-1.14	-53.17	≤-21.14	PASS
BLE_2M	Ant1	2402	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-68.08	≤-22.13	PASS
			1000~26500	-2.13	-53.01	≤-22.13	PASS
		2440	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-68.26	≤-22.06	PASS
			1000~26500	-2.06	-52.55	≤-22.06	PASS
		2480	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-68.68	≤-21.45	PASS
			1000~26500	-1.45	-52.81	≤-21.45	PASS

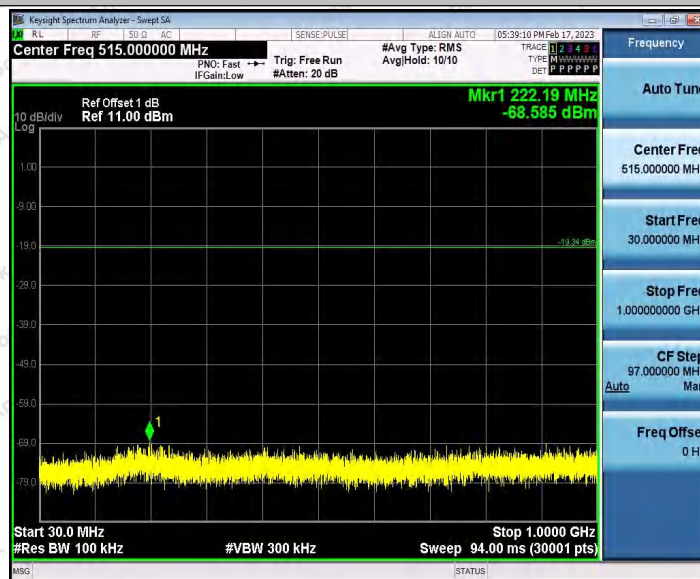


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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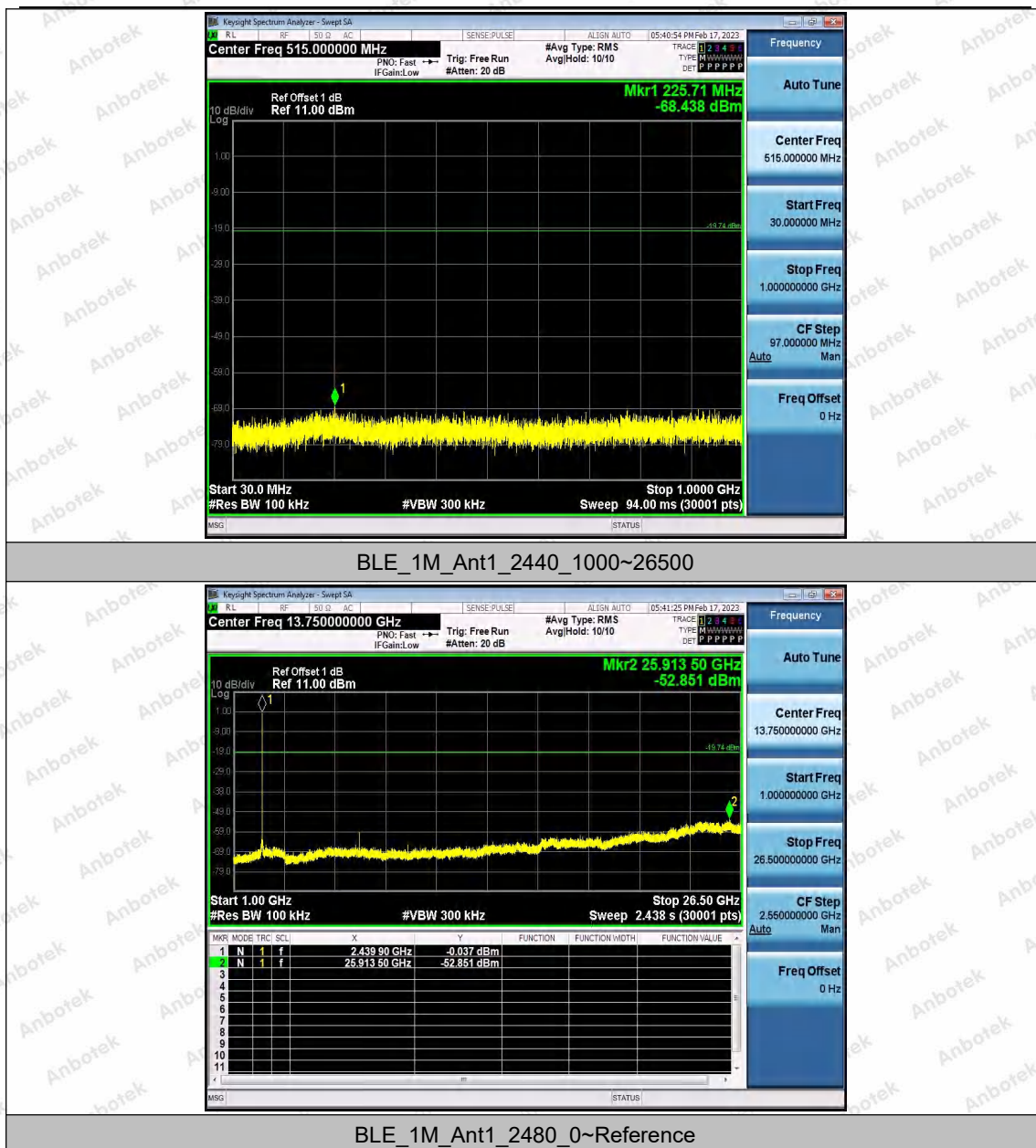


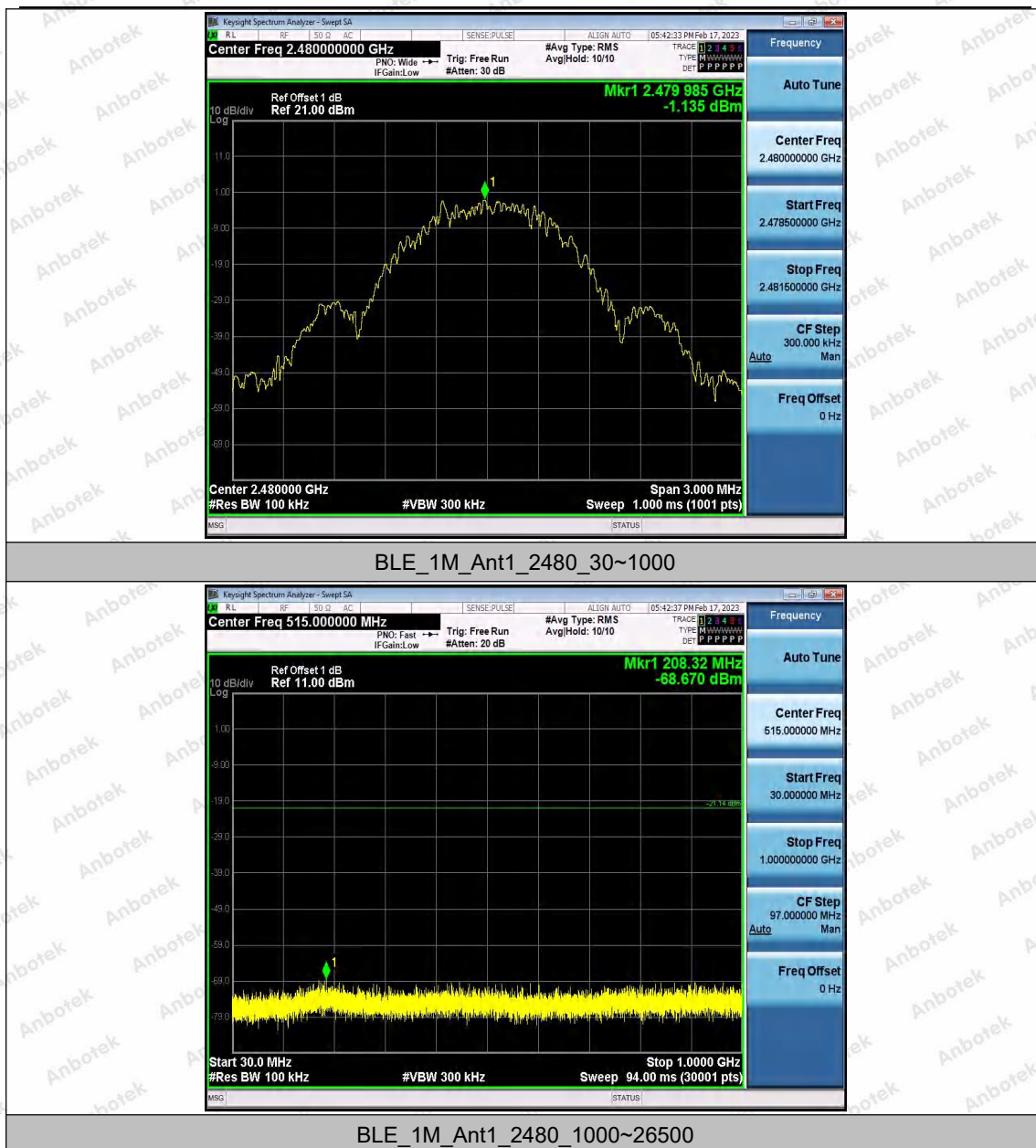
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





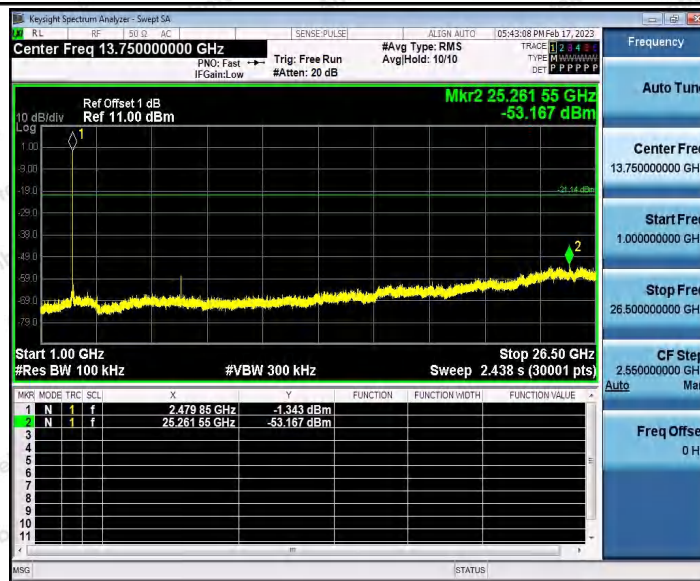
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BLE_2M_Ant1_2402_0~Reference

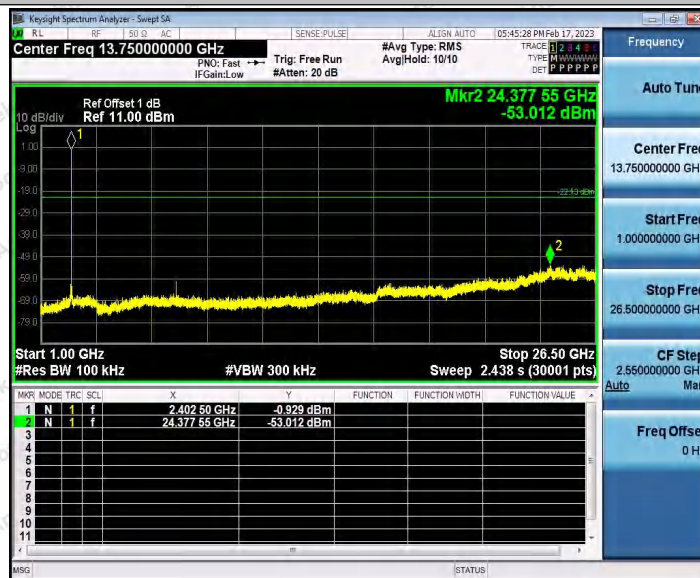


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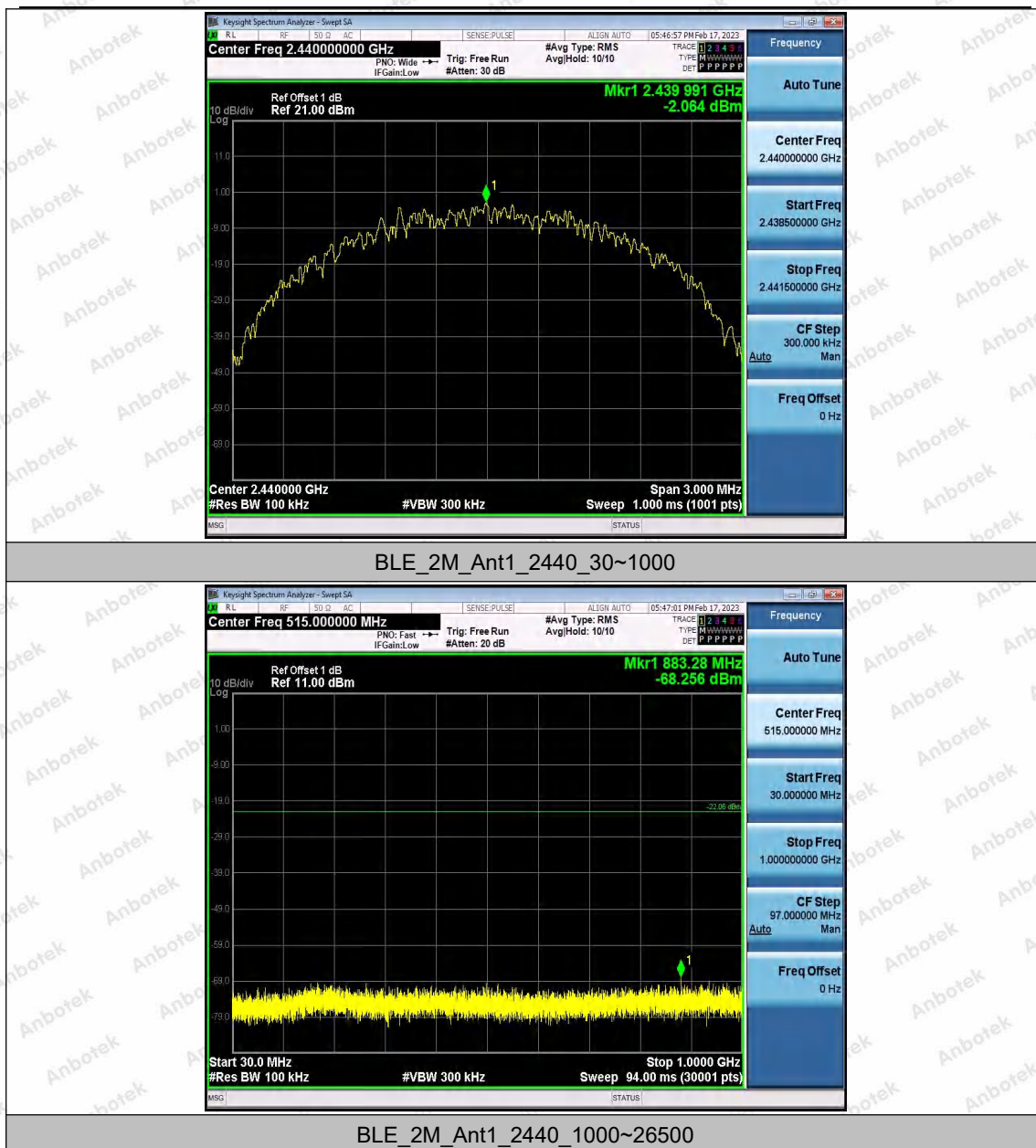


BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference





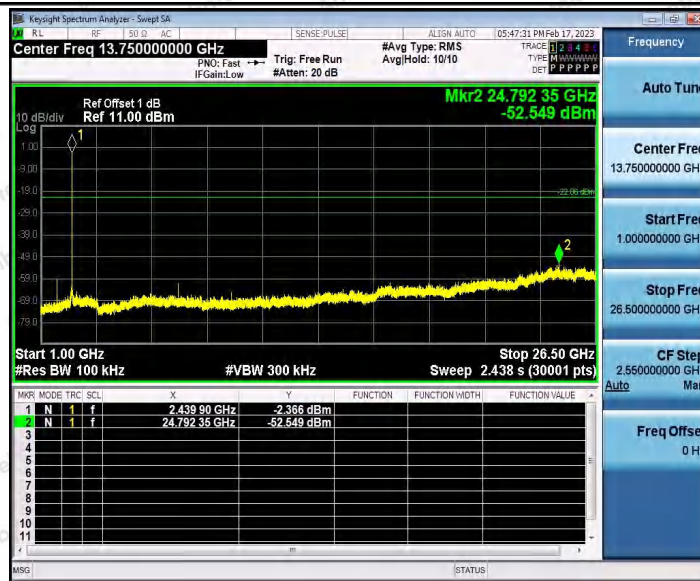
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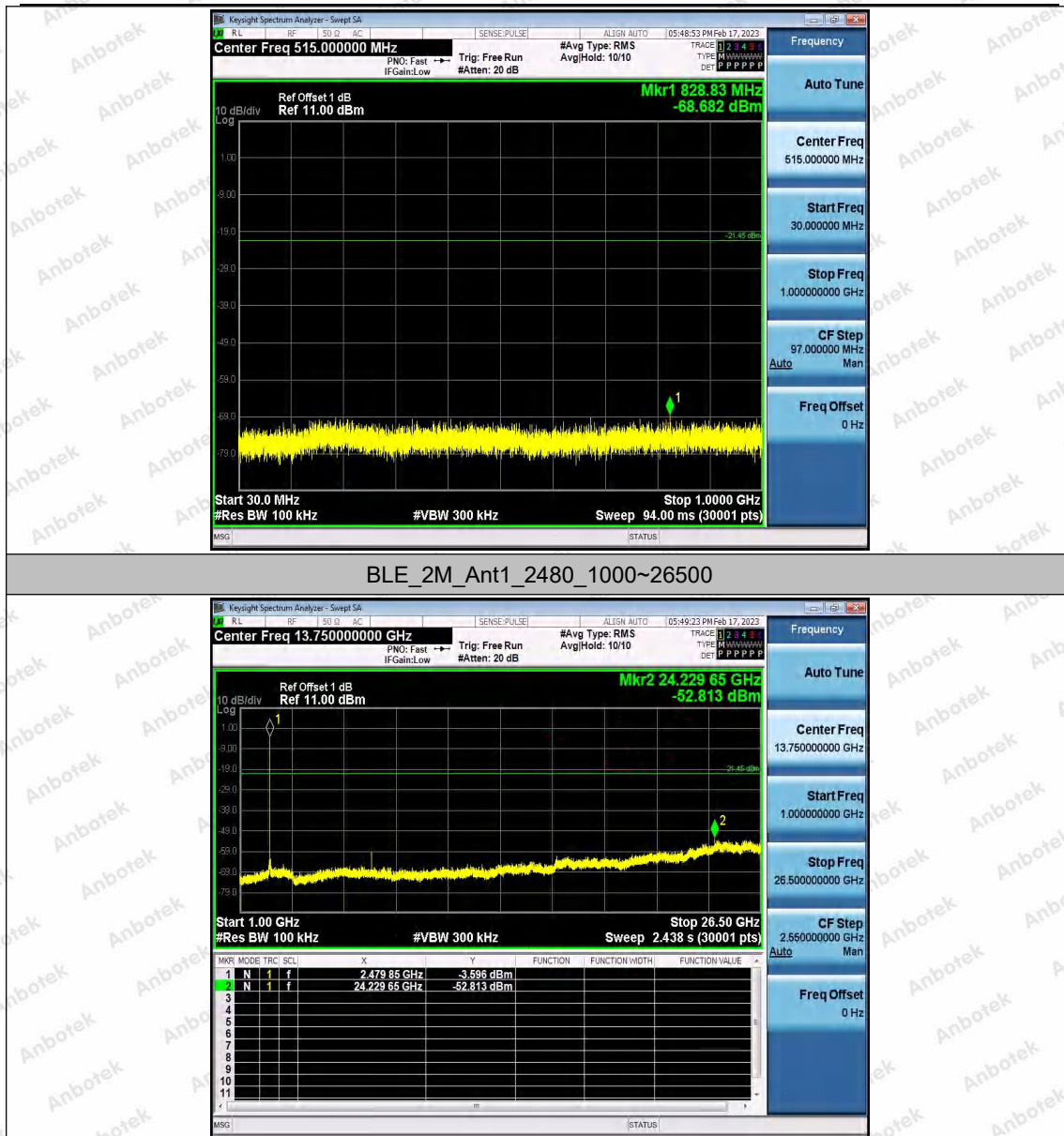


BLE_2M_Ant1_2480_0~Reference



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	2.13	2.50	85.20	0.70
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	1.26	85.71	0.67
		2440	1.08	1.26	85.71	0.67
		2480	1.08	1.25	86.40	0.63

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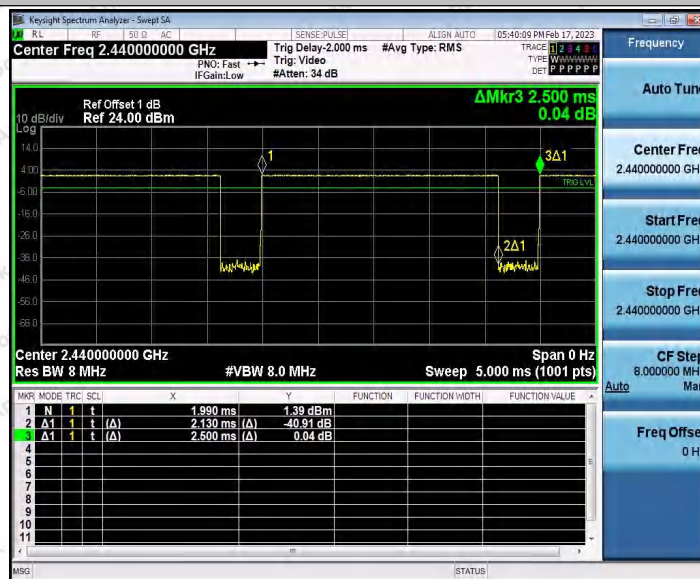


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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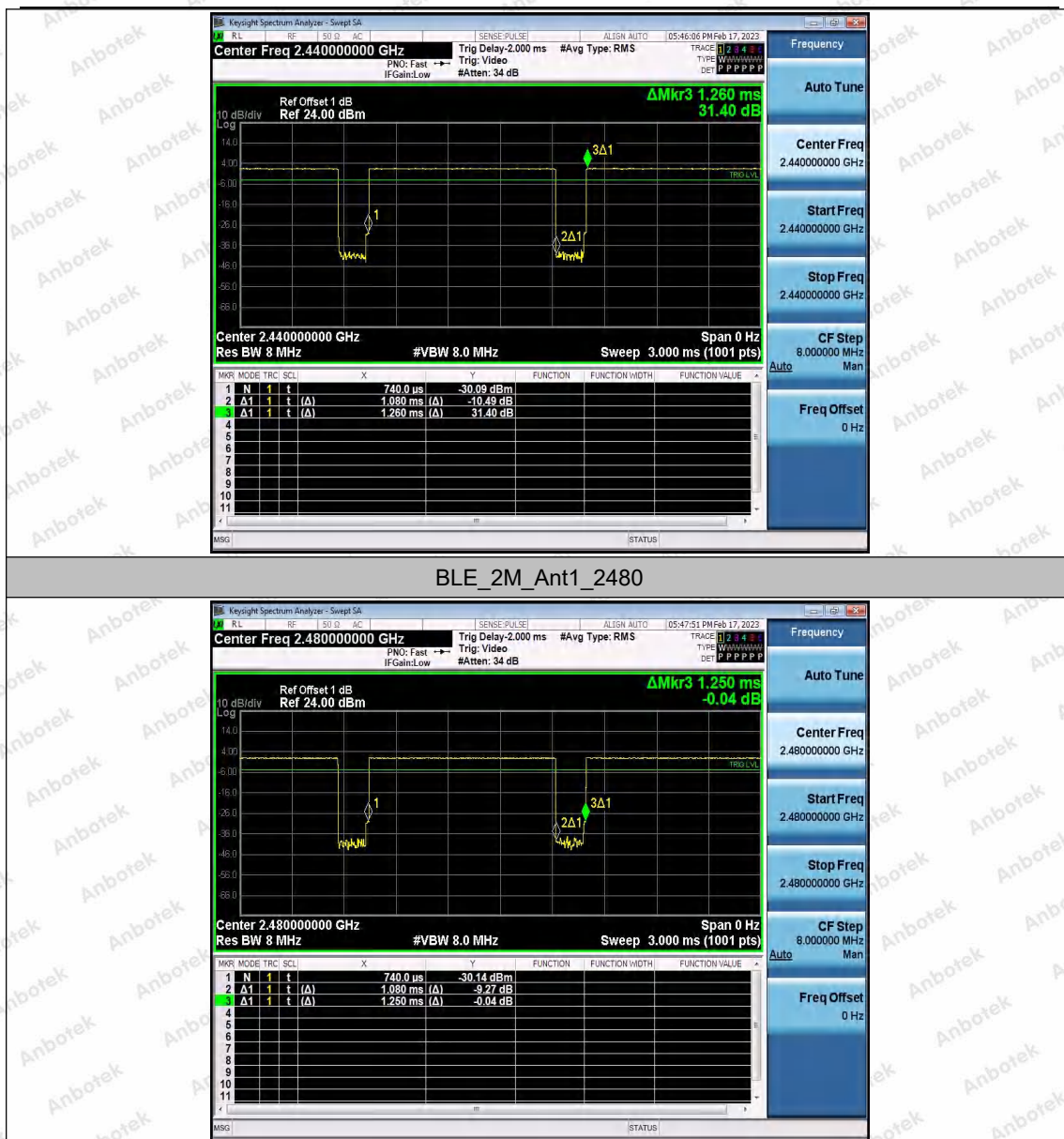


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

