

Appendix Test Data

Report No.:	18220WC30014401	Test Sample No.:	1-2-2
Start Test Date:	2023.2.6	Finish Test Date:	2023.2.15
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3°C	Relative Humidity:	47 %
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	0.704	2401.704	2402.408	0.5	PASS
		2440	0.744	2439.708	2440.452	0.5	PASS
		2480	0.664	2479.708	2480.372	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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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	1.0111	2401.5392	2402.5503
		2440	1.0055	2439.5387	2440.5442
		2480	1.0130	2479.5403	2480.5533



Test Graphs



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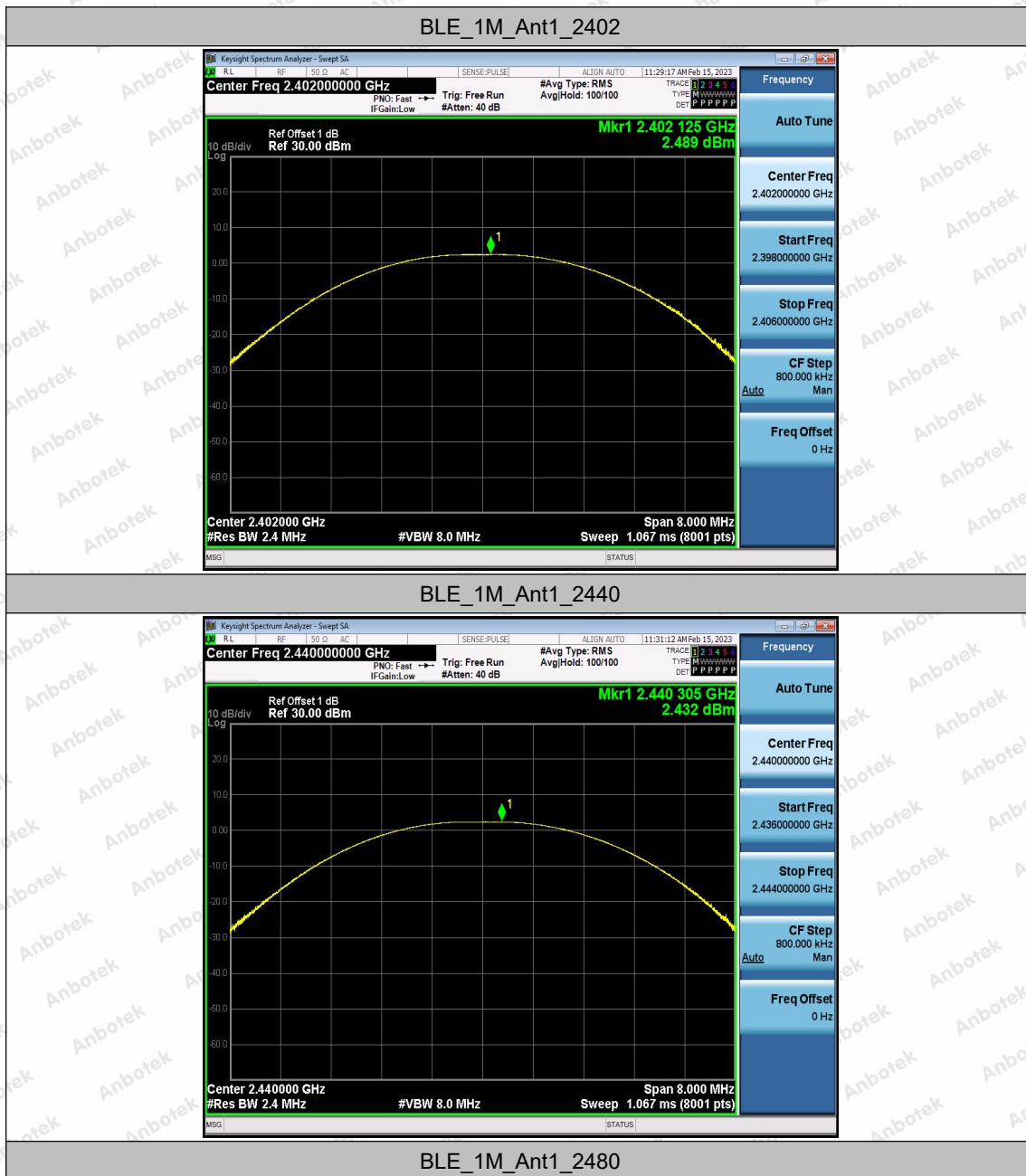
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.49	≤30	PASS
		2440	2.43	≤30	PASS
		2480	2.13	≤30	PASS



Test Graphs Peak



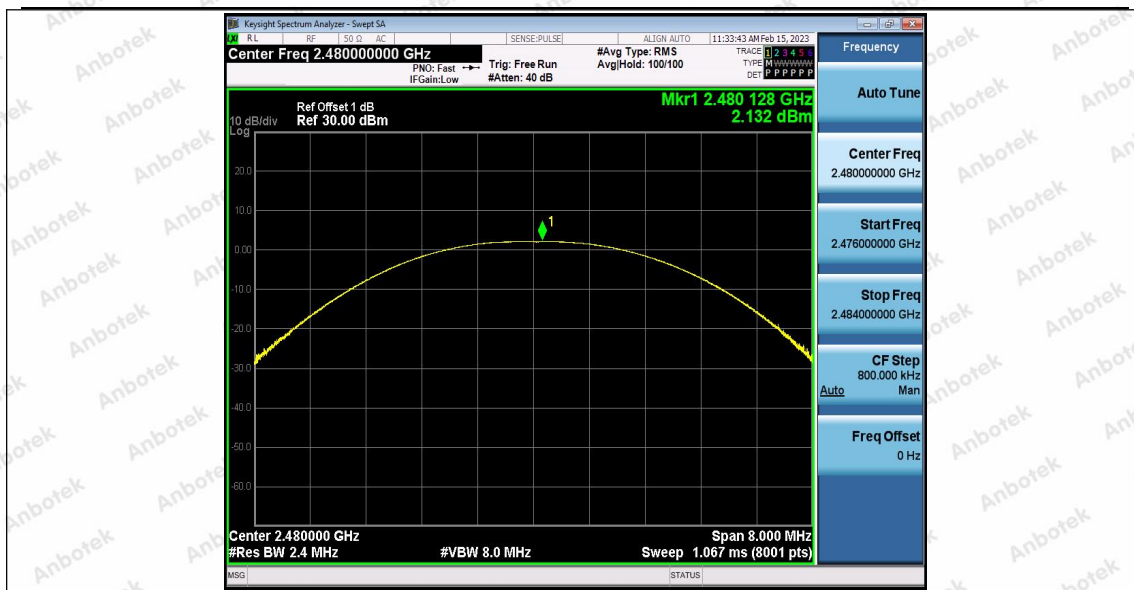
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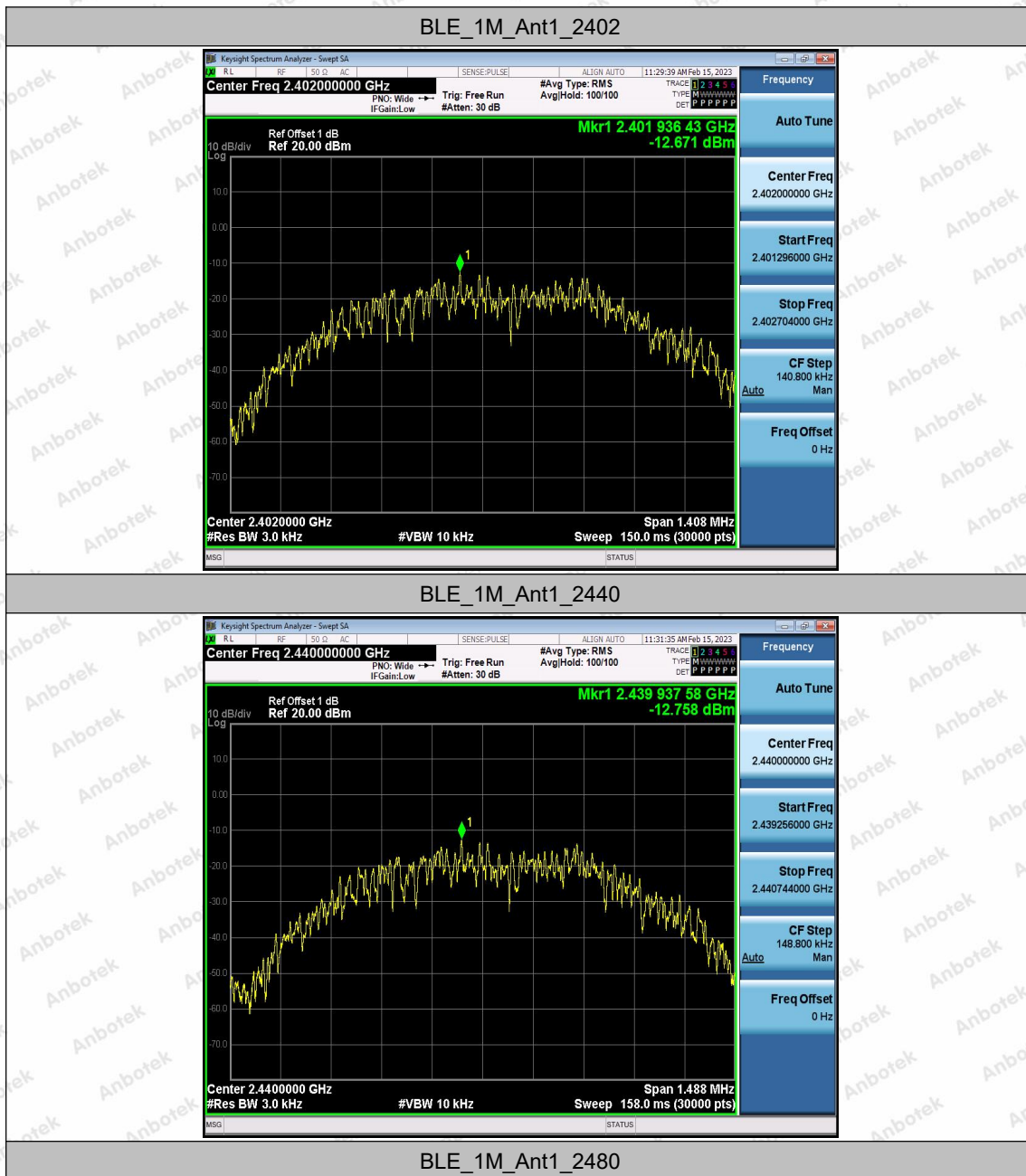
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.67	≤8.00	PASS
		2440	-12.76	≤8.00	PASS
		2480	-12.96	≤8.00	PASS



Test Graphs



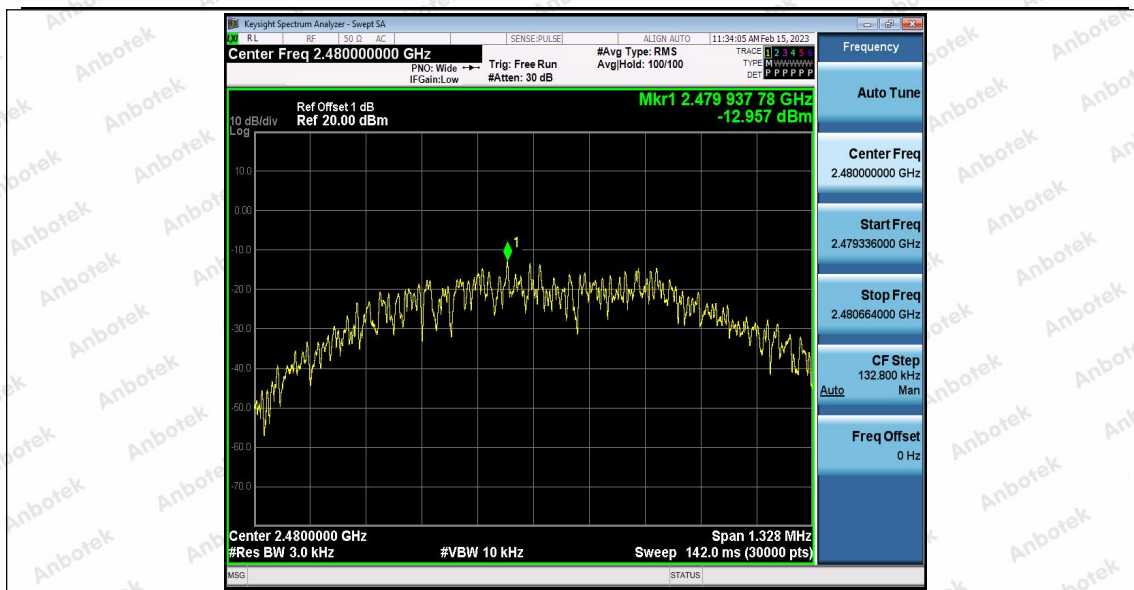
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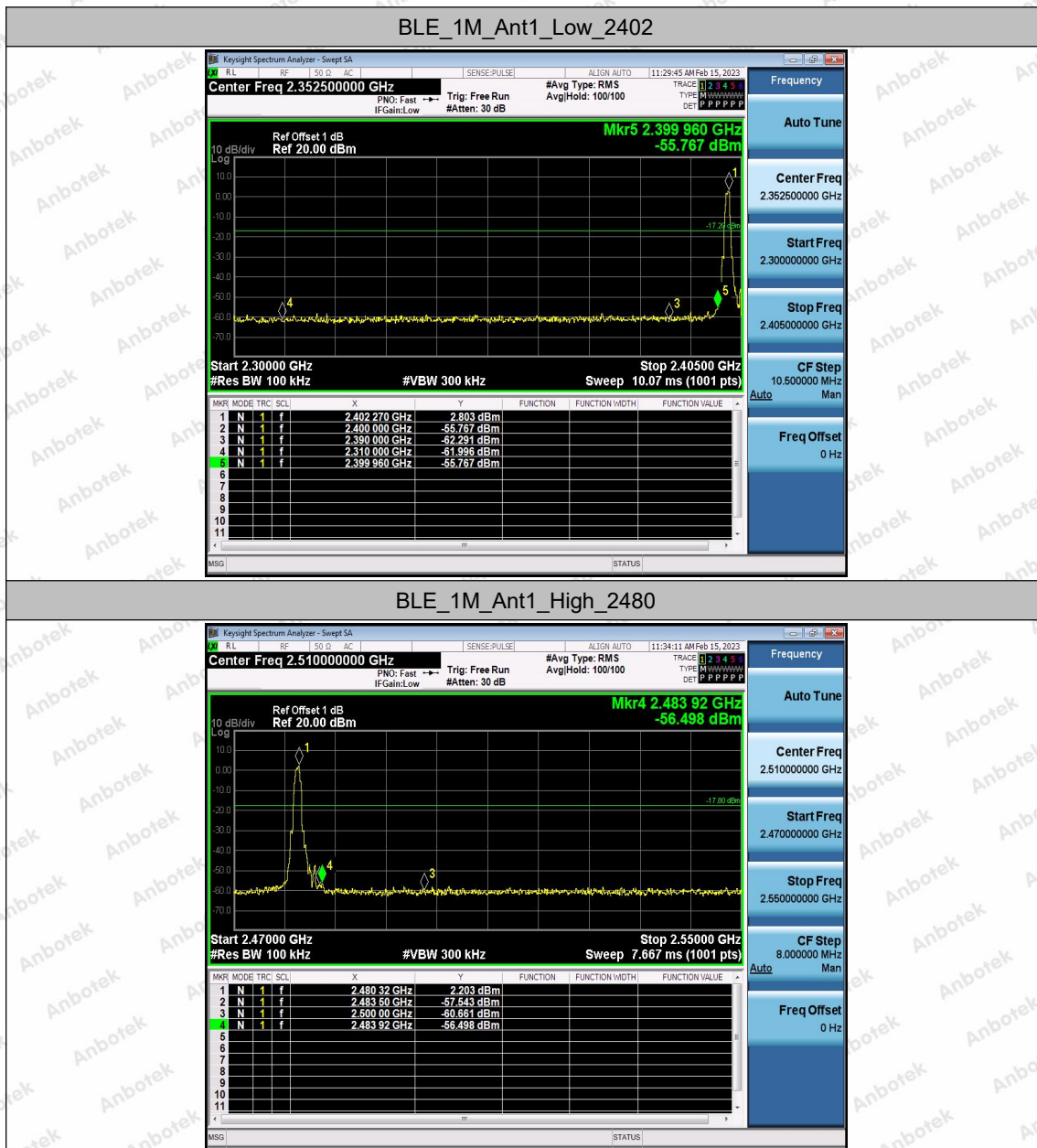
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.80	-55.77	≤-17.2	PASS
		High	2480	2.20	-56.5	≤-17.8	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	2.22	2.22	---	PASS
			30~1000	2.22	-69.33	≤-17.78	PASS
			1000~26500	2.22	-31.1	≤-17.78	PASS
		2440	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-68.64	≤-18.03	PASS
			1000~26500	1.97	-31.13	≤-18.03	PASS
		2480	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-68.72	≤-17.93	PASS
			1000~26500	2.07	-32.11	≤-17.93	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

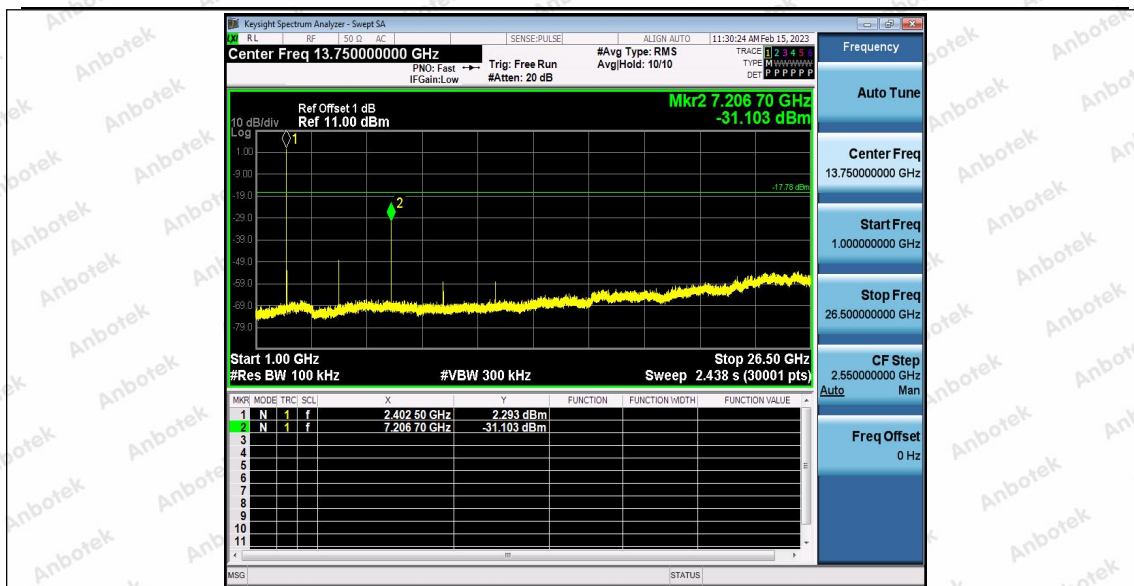
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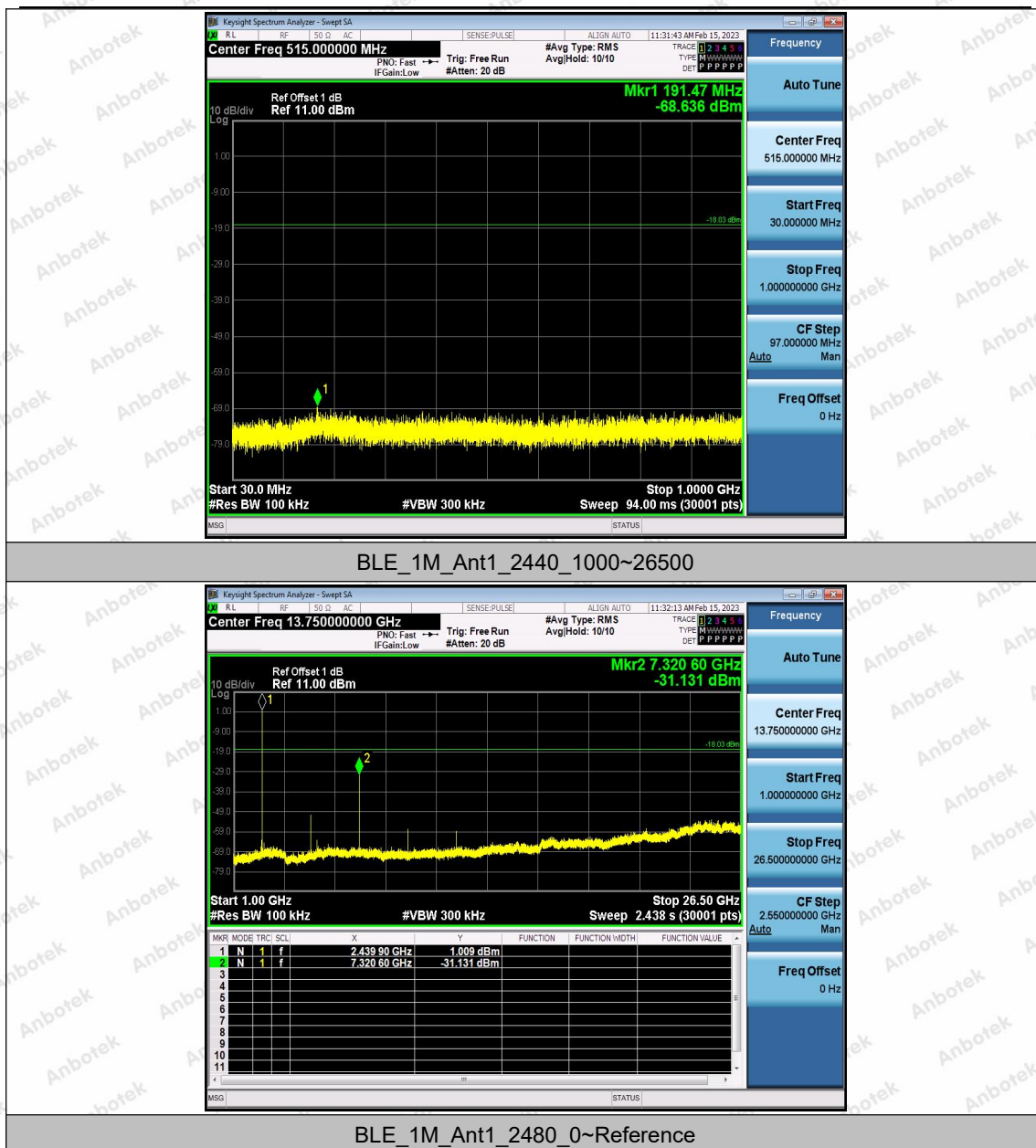


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



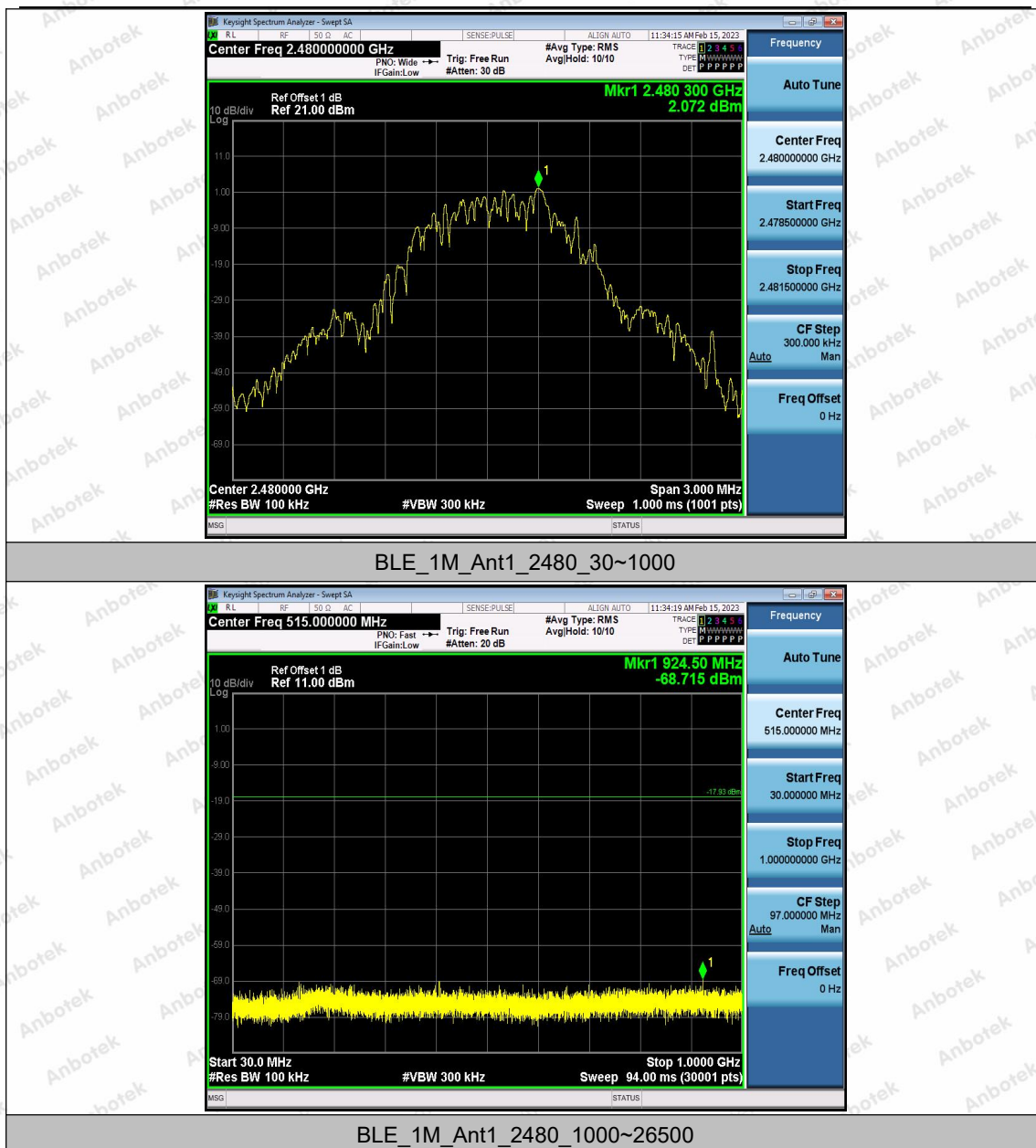
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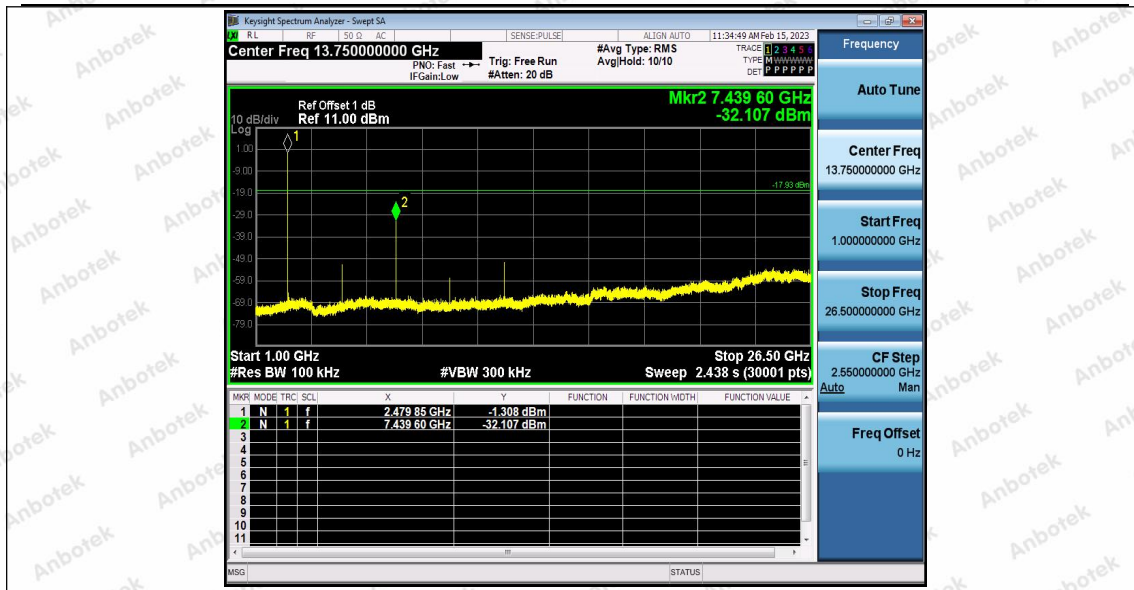
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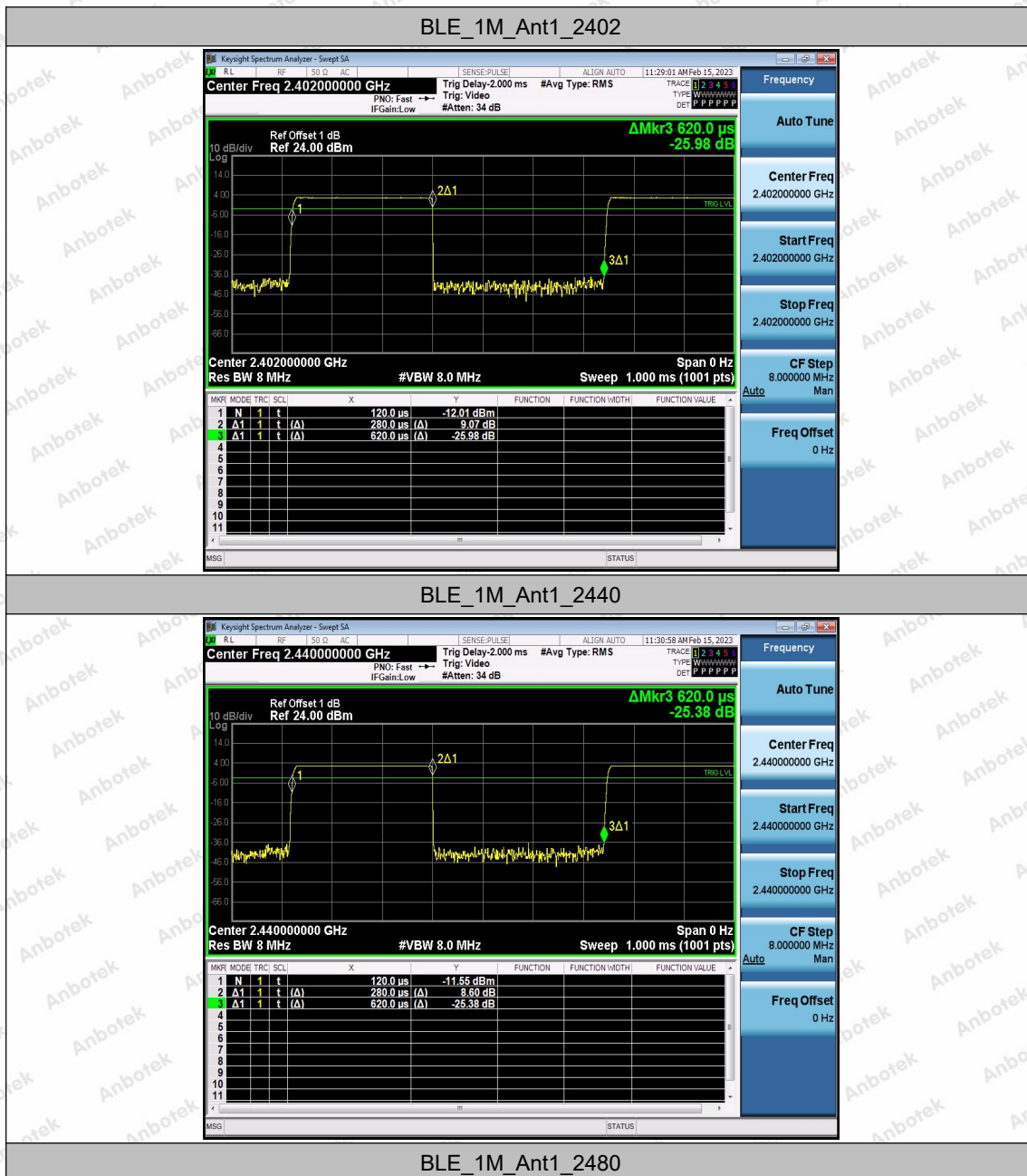
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.28	0.62	45.16	3.45
		2440	0.28	0.62	45.16	3.45
		2480	0.28	0.62	45.16	3.45



Test Graphs



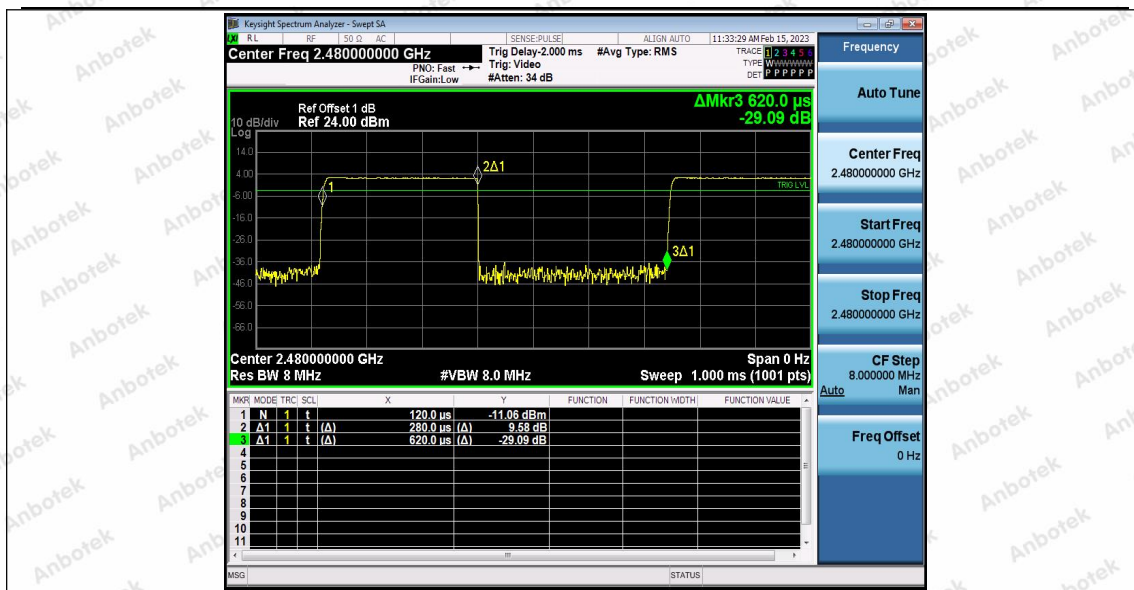
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