

Appendix Test Data

Report No.:	18220WC30079901	Test Sample No.:	1-2-2
Start Test Date:	2023.05.08	Finish Test Date:	2023.05.10
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	25.2°C	Relative Humidity:	57%
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	0.680	2401.716	2402.396	0.5	PASS
		2440	0.660	2439.716	2440.376	0.5	PASS
		2480	0.656	2479.732	2480.388	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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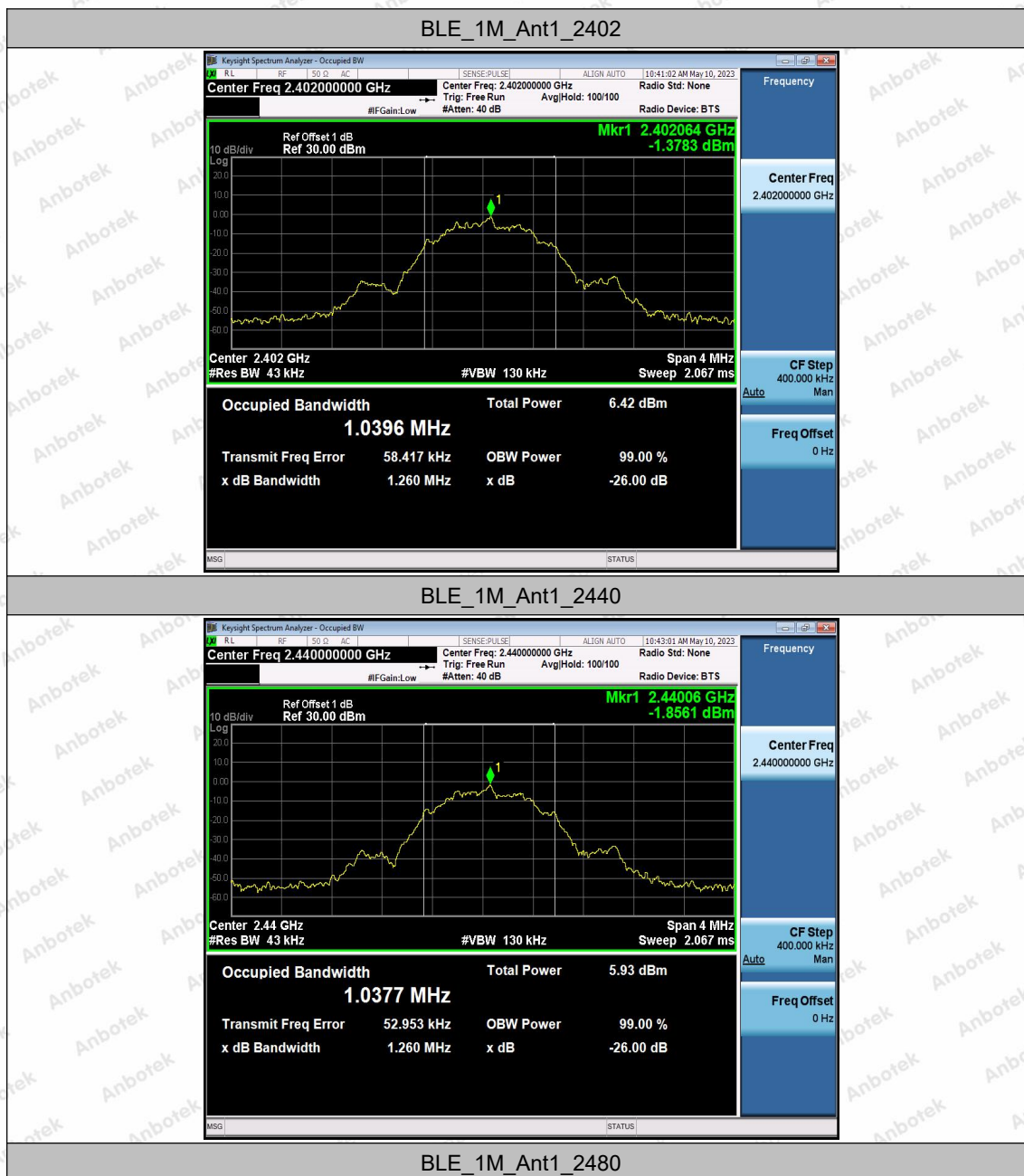
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0396	2401.5386	2402.5782
		2440	1.0377	2439.5341	2440.5718
		2480	1.0455	2479.5306	2480.5761



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	-0.07	≤30	PASS
		2440	-0.8	≤30	PASS
		2480	-1.6	≤30	PASS

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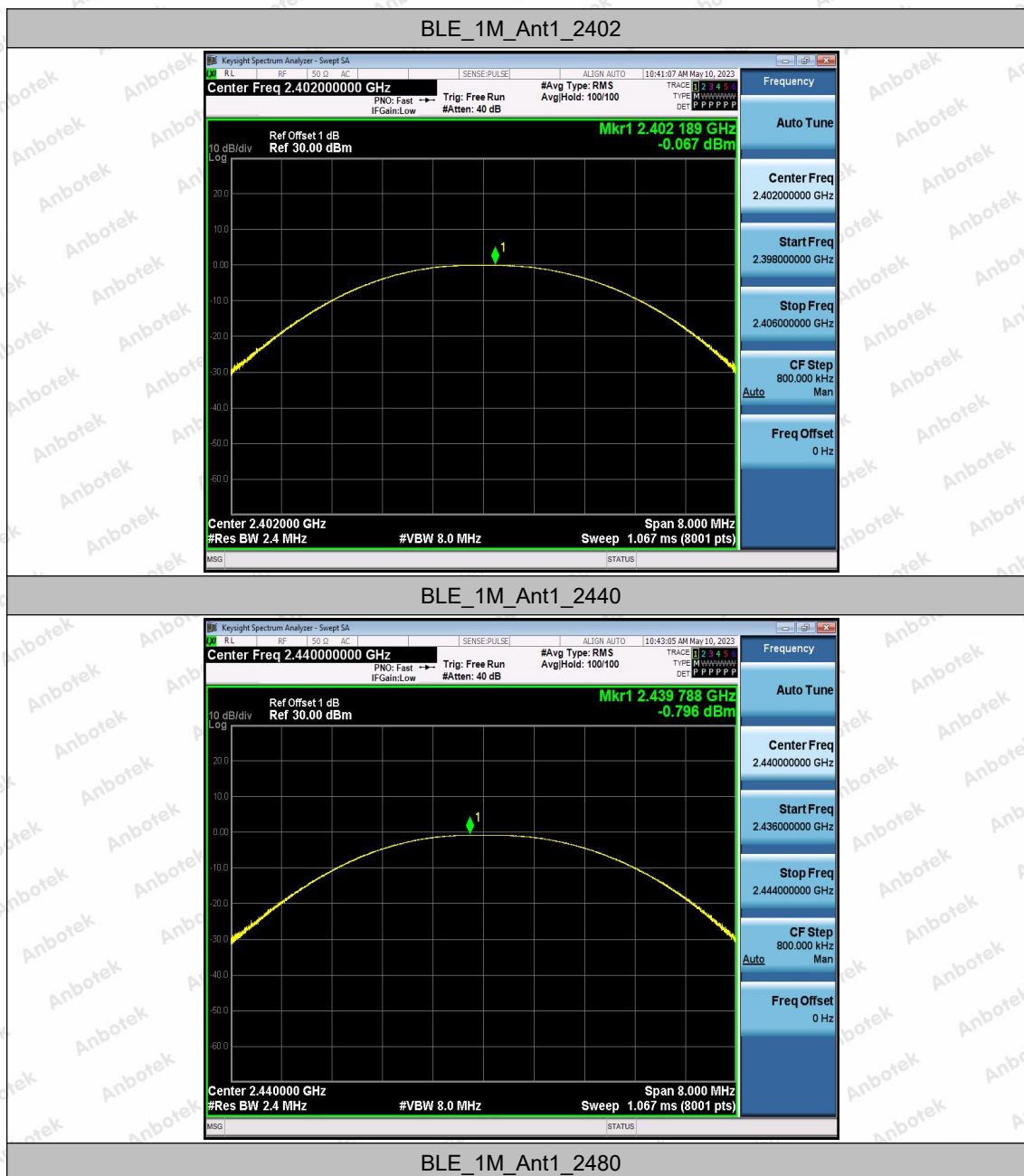
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Test Graphs Peak



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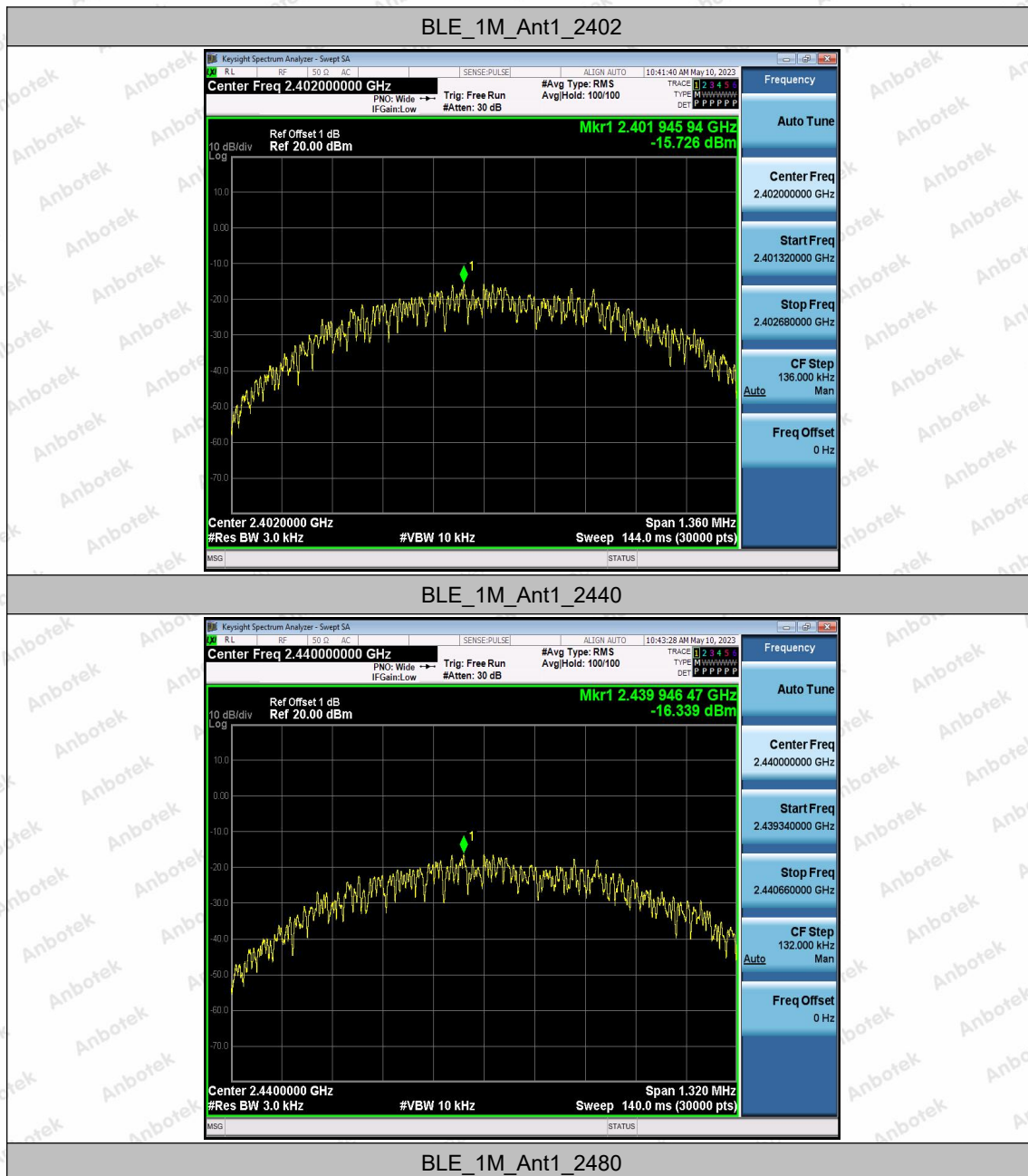
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.73	≤8.00	PASS
		2440	-16.34	≤8.00	PASS
		2480	-17.23	≤8.00	PASS



Test Graphs



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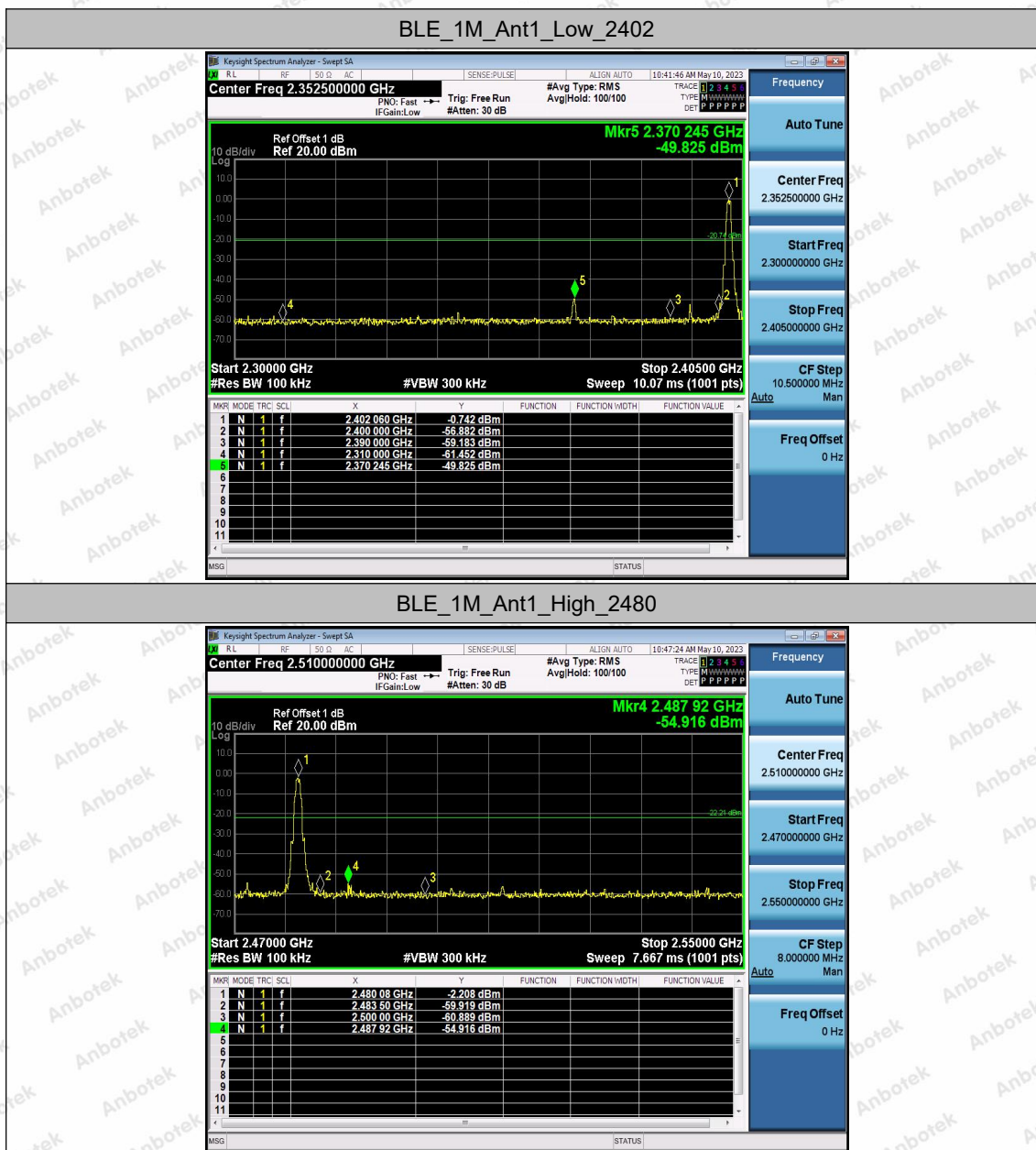
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.74	-49.83	≤-20.74	PASS
		High	2480	-2.21	-54.92	≤-22.21	PASS



Test Graphs



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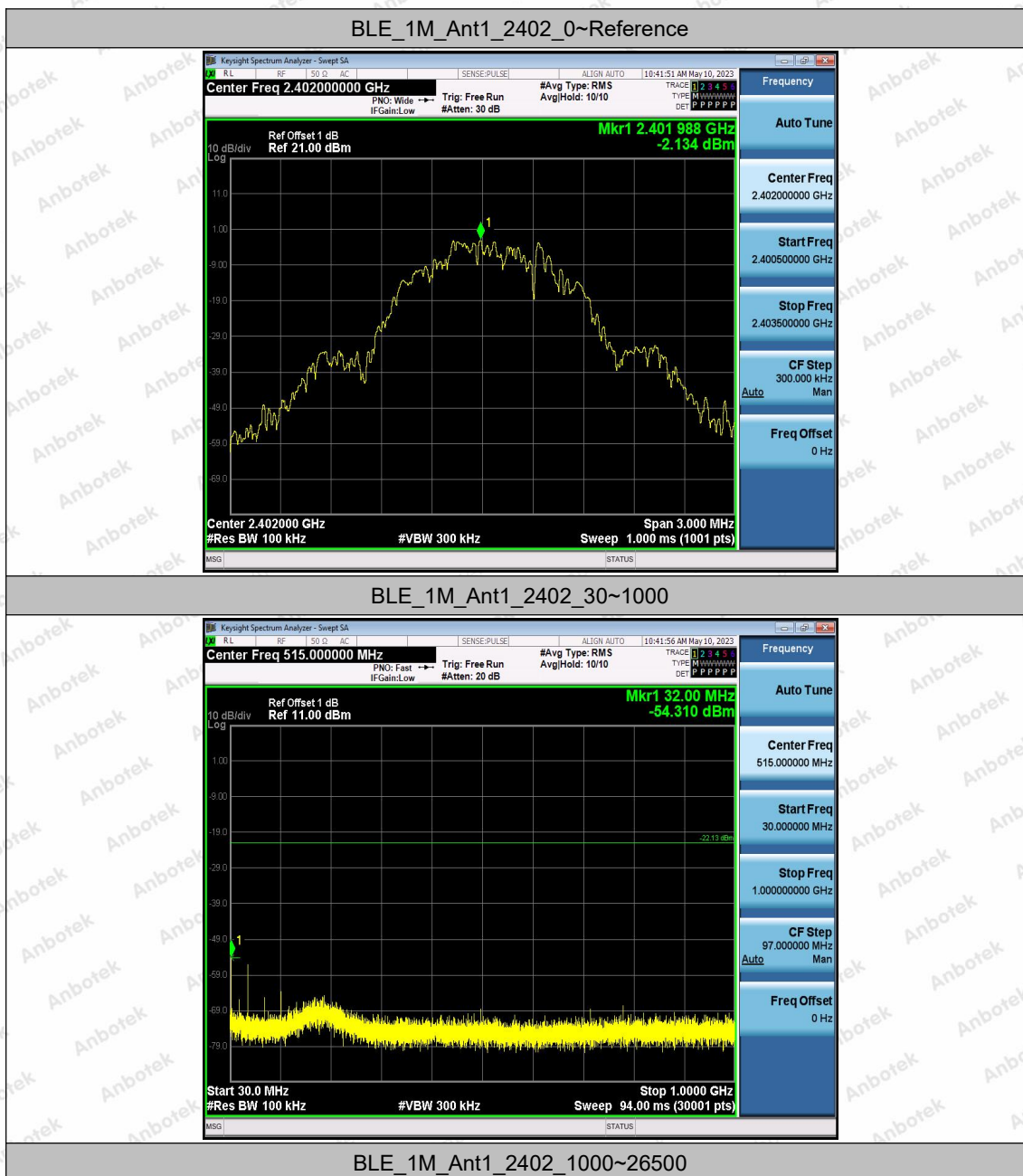
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-54.31	≤-22.13	PASS
			1000~26500	-2.13	-37.77	≤-22.13	PASS
		2440	Reference	-2.10	-2.10	---	PASS
			30~1000	-2.10	-54.69	≤-22.1	PASS
			1000~26500	-2.10	-41.55	≤-22.1	PASS
		2480	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-54.7	≤-21.89	PASS
			1000~26500	-1.89	-40.27	≤-21.89	PASS



Test Graphs



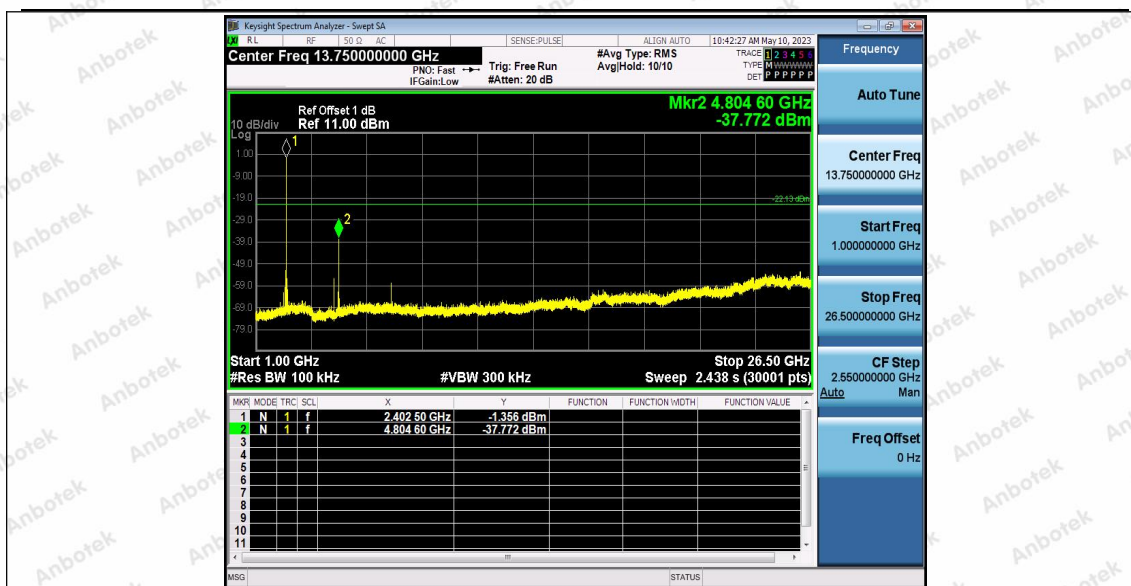
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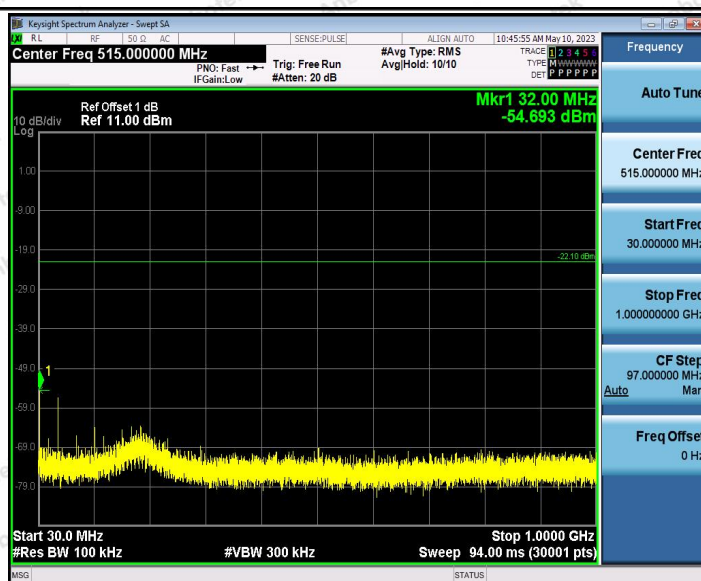


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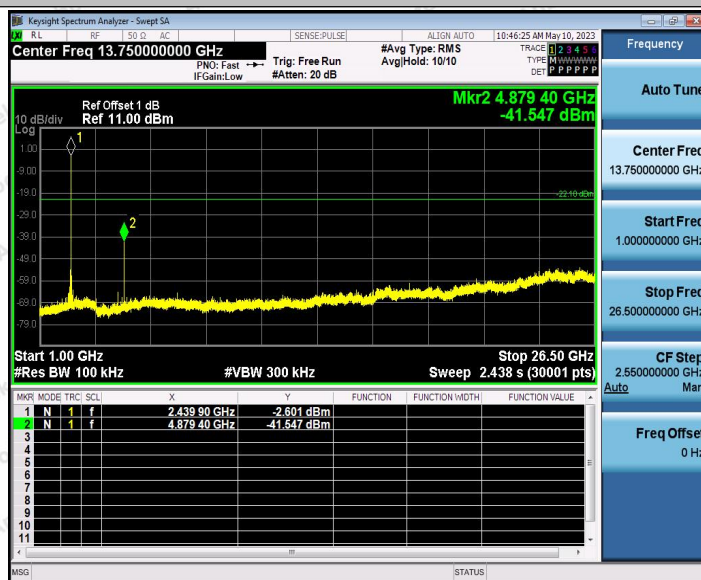


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

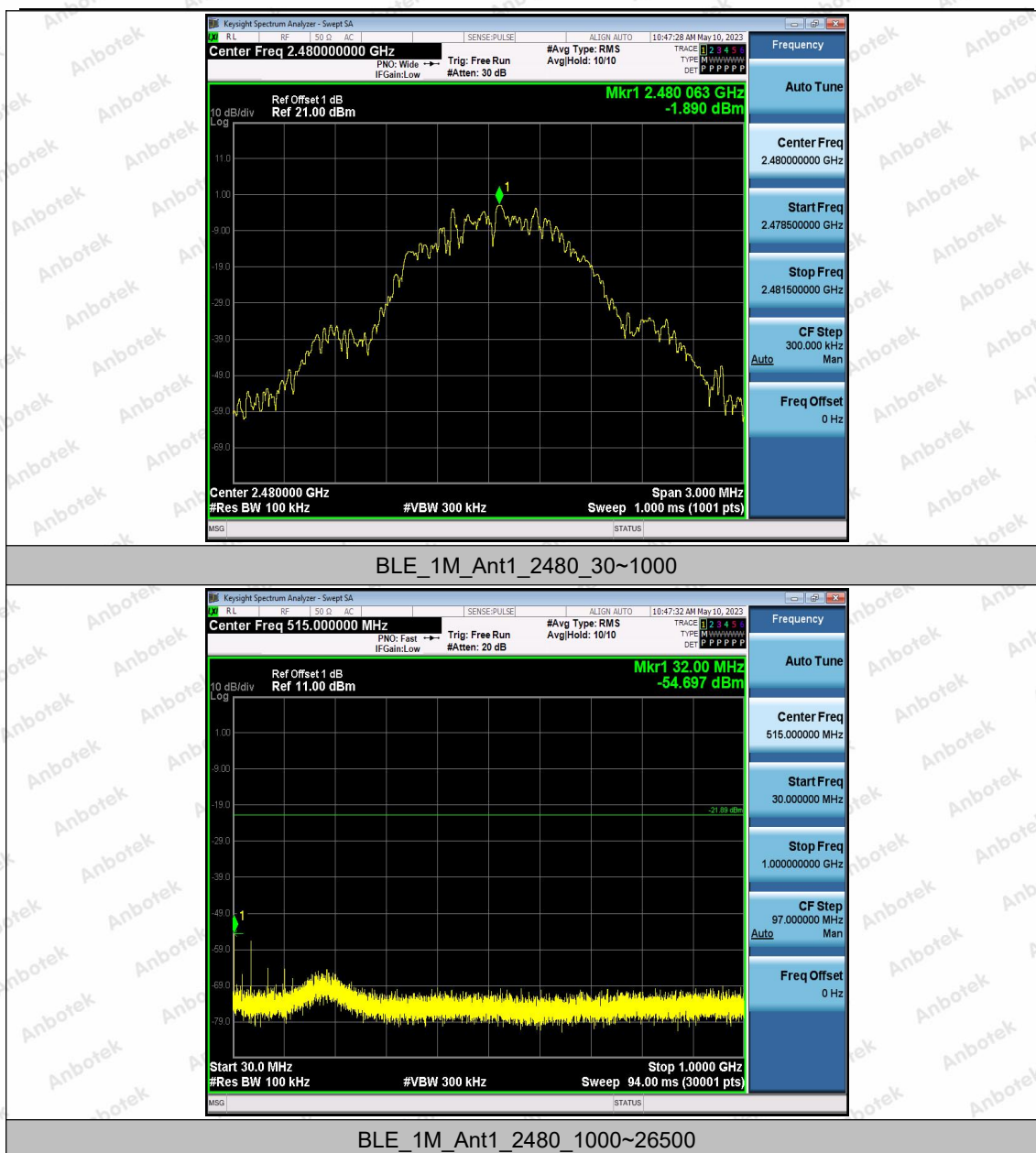
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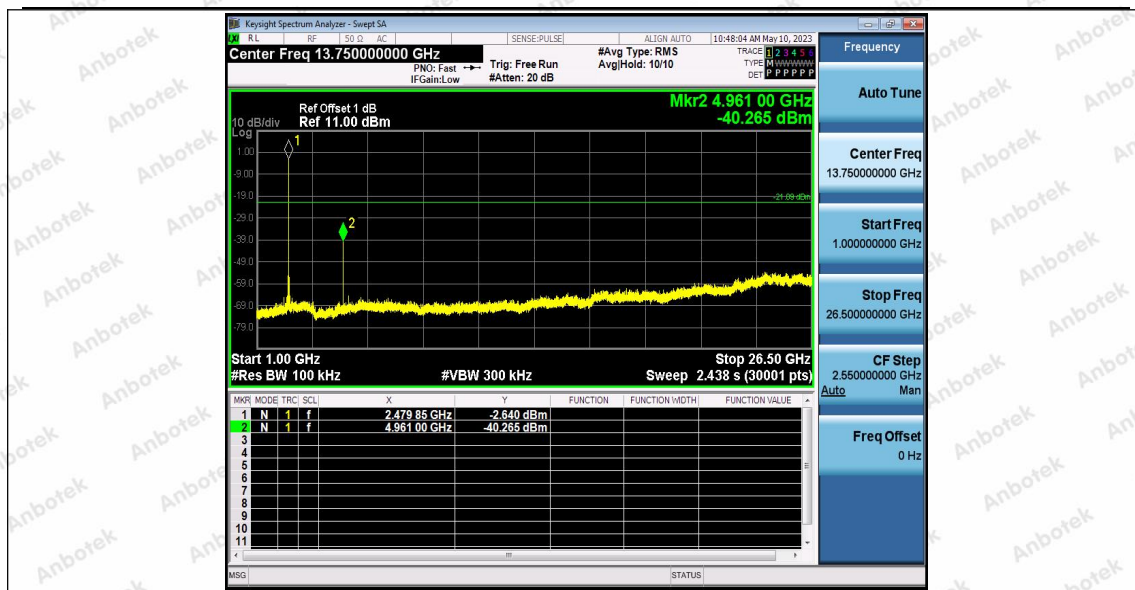
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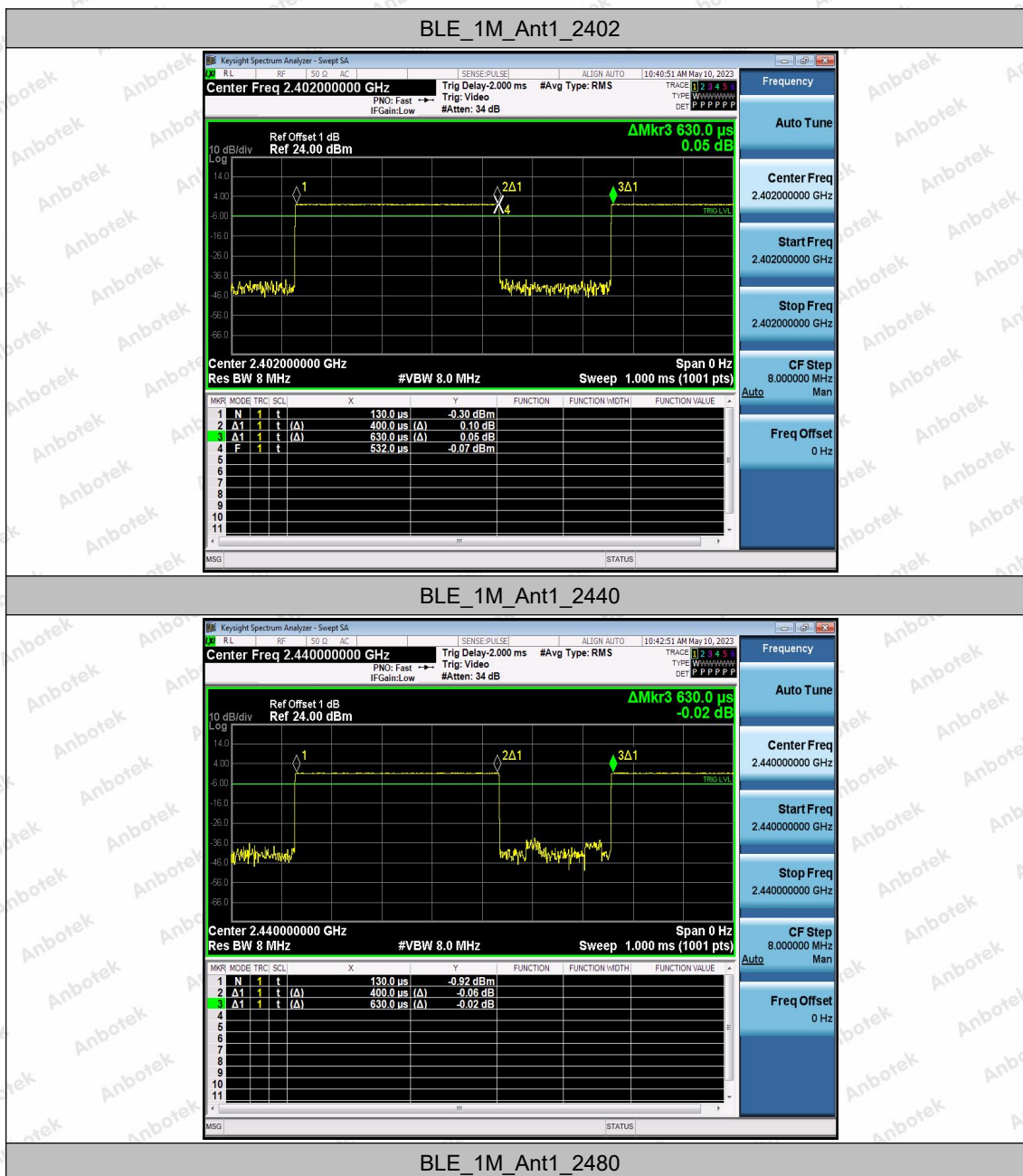
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.63	63.49	1.97
		2480	0.40	0.61	65.57	1.83



Test Graphs



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