

Appendix Test Data

Report No.:	1812C50163212501	Test Sample No.:	1-2-2
Start Test Date:	2025.04.21	Finish Test Date:	2025.04.21
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.2°C	Relative Humidity:	50%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.672	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.688	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.656	2479.676	2480.332	0.5	PASS

Test Graphs





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Appendix B: 99% Occupied Bandwidth

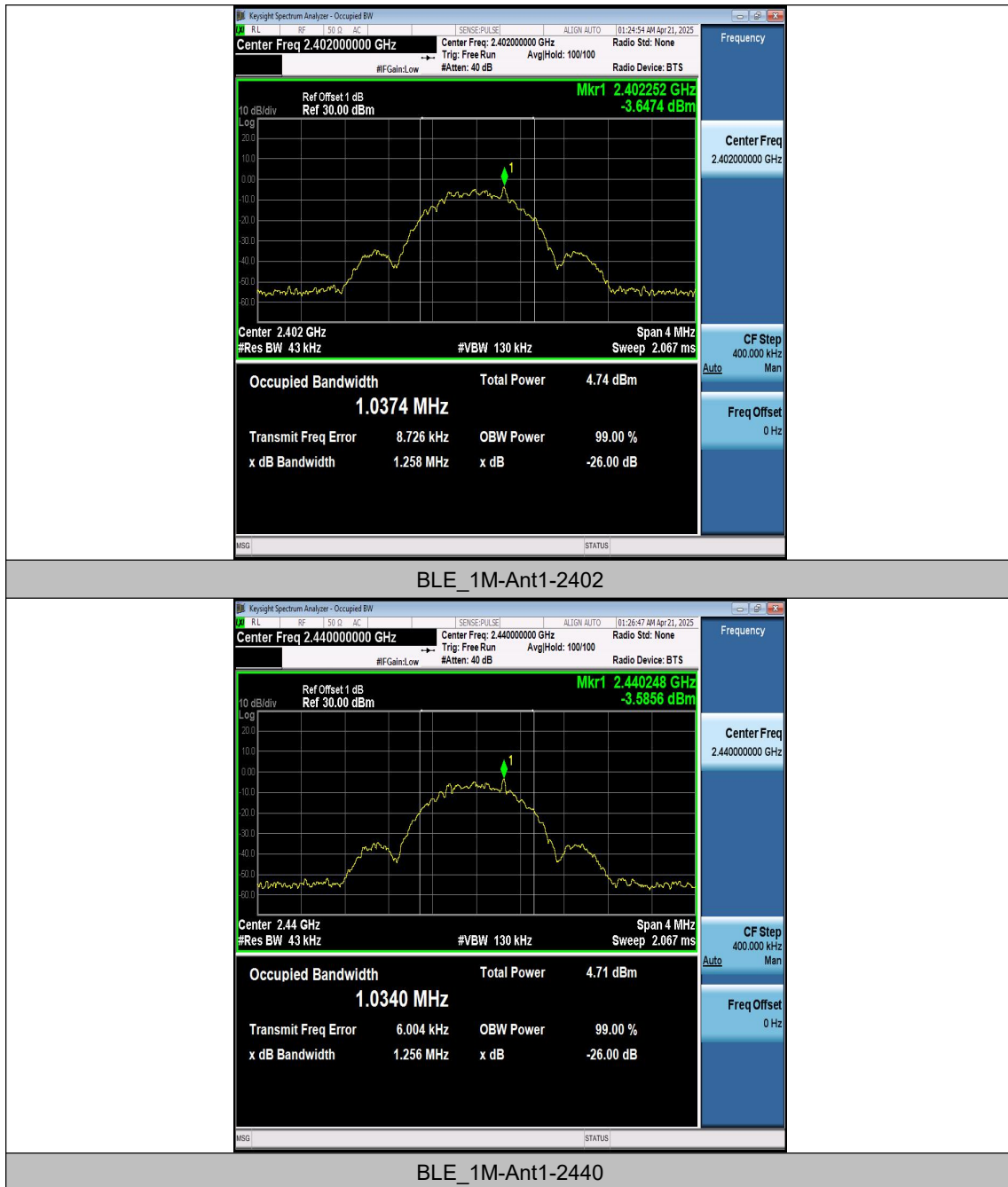
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0374	2401.4900	2402.5274	---	---
BLE_1M	Ant1	2440	1.0340	2439.4890	2440.5230	---	---
BLE_1M	Ant1	2480	1.0276	2479.4922	2480.5198	---	---

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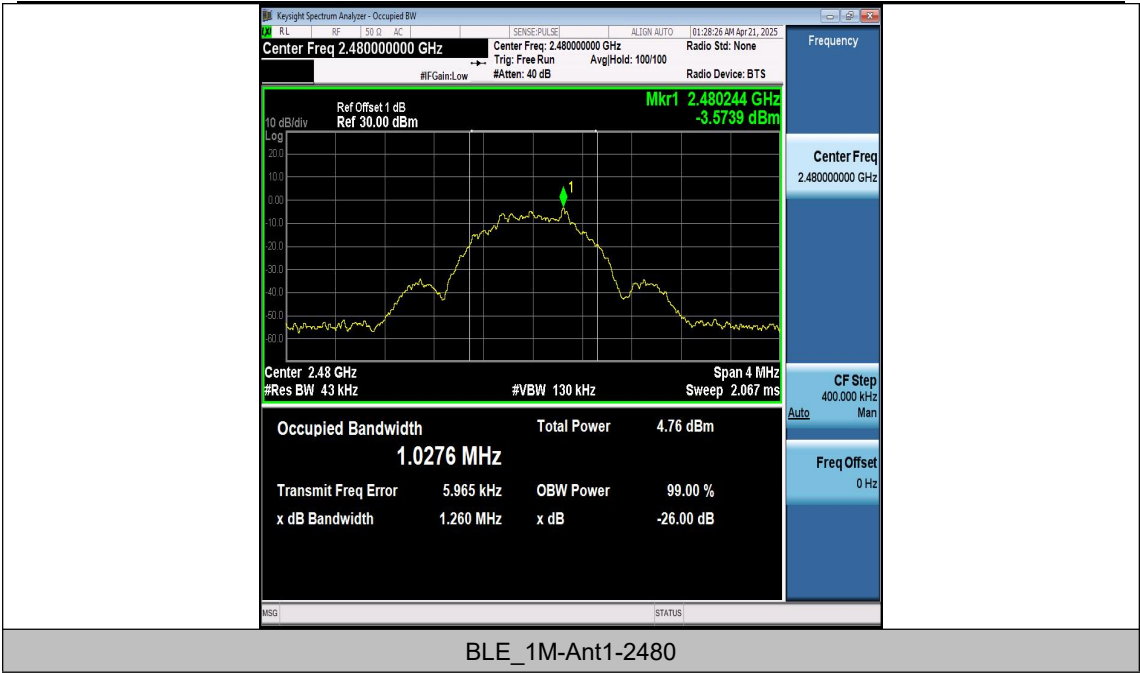
Test Graphs



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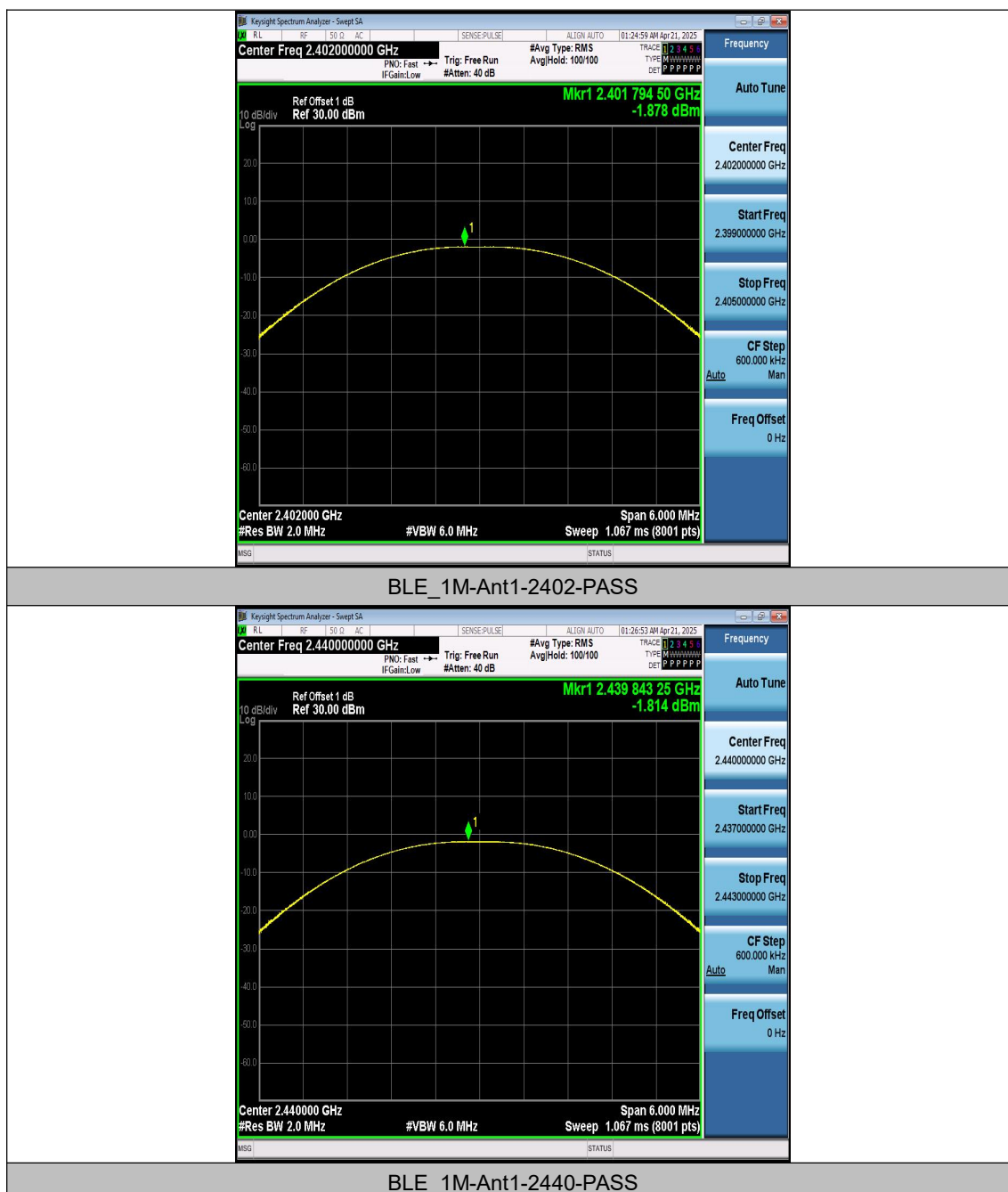
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Appendix C: Maximum conducted output power

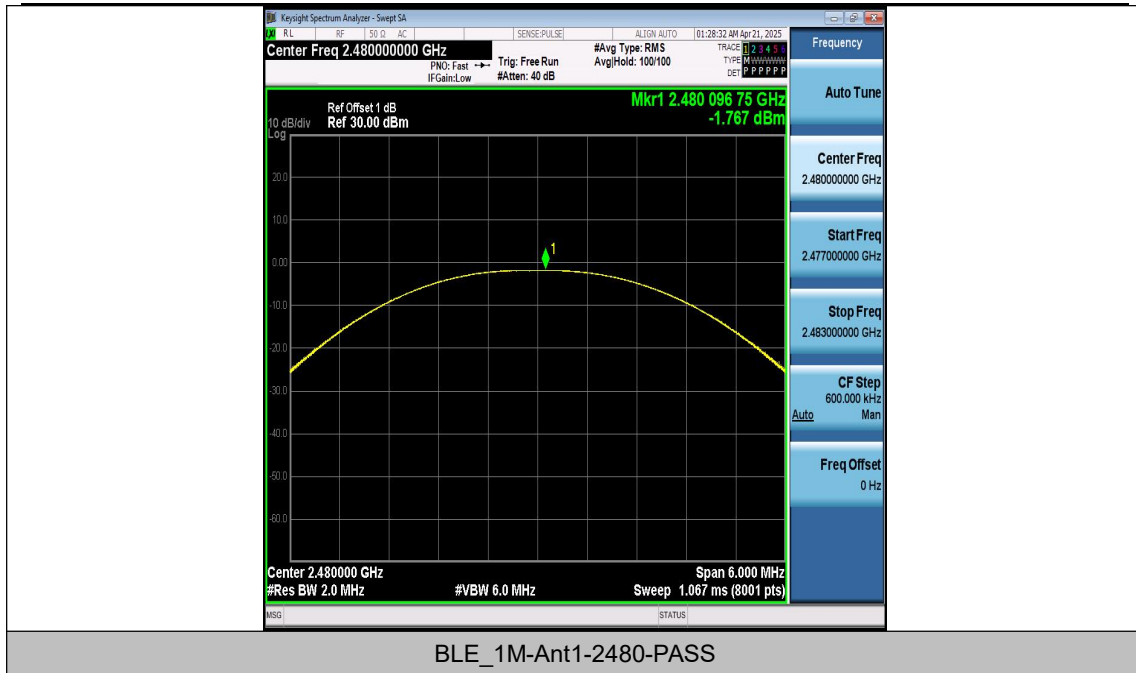
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.88	≤30	PASS
BLE_1M	Ant1	2440	-1.81	≤30	PASS
BLE_1M	Ant1	2480	-1.77	≤30	PASS

Test Graphs Peak



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Appendix D: Maximum power spectral density

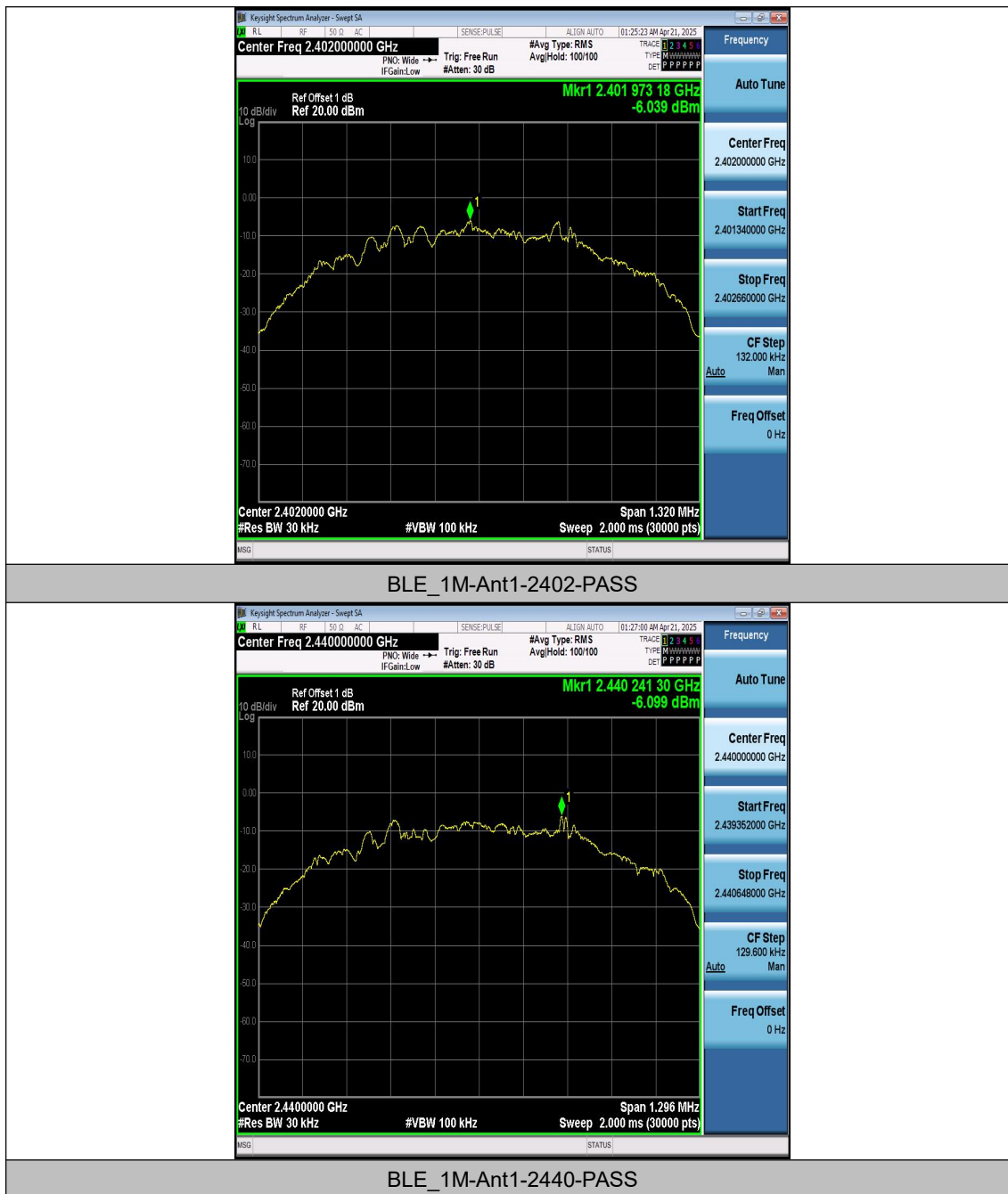
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.04	-16.04	≤8.00	PASS
BLE_1M	Ant1	2440	-6.10	-16.10	≤8.00	PASS
BLE_1M	Ant1	2480	-5.86	-15.86	≤8.00	PASS

Note: $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$.



Test Graphs



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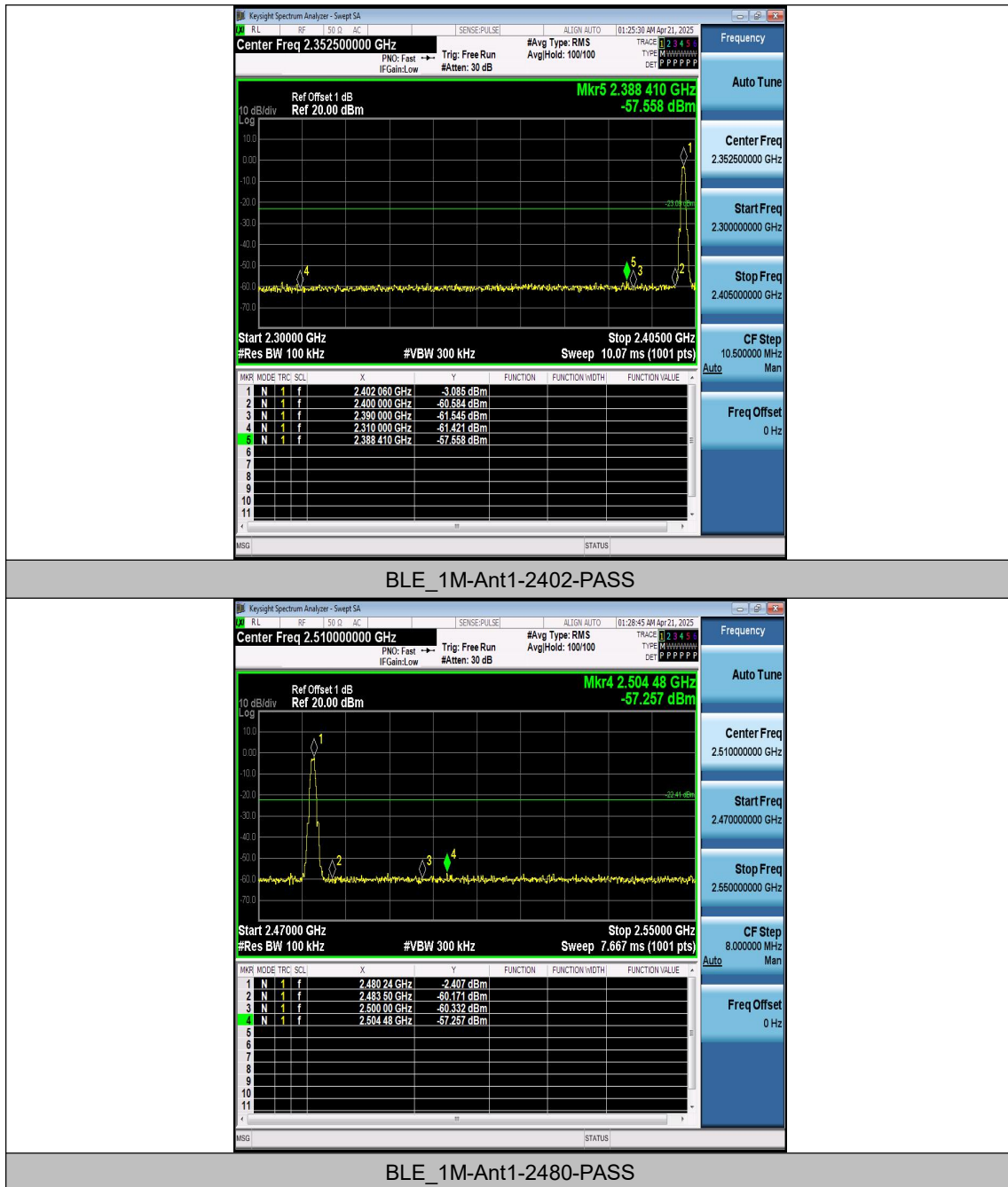
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.09	-57.56	≤-23.09	PASS
BLE_1M	Ant1	High	2480	-2.41	-57.26	≤-22.41	PASS



Test Graphs



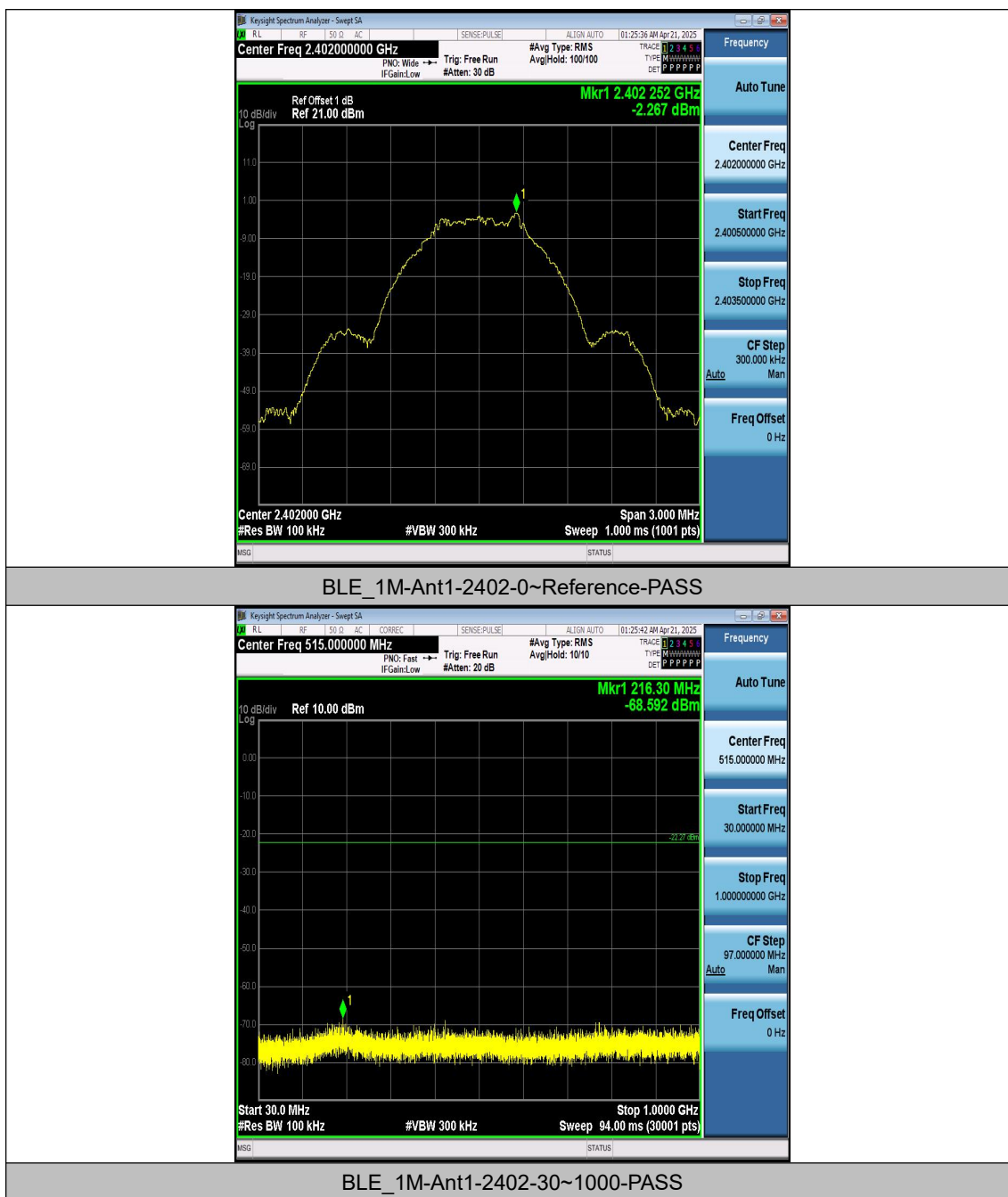
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.27	-2.27	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.27	-68.59	≤-22.27	PASS
BLE_1M	Ant1	2402	1000~26500	-2.27	-53.57	≤-22.27	PASS
BLE_1M	Ant1	2440	0~Reference	-2.36	-2.36	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.36	-68.96	≤-22.36	PASS
BLE_1M	Ant1	2440	1000~26500	-2.36	-53.62	≤-22.36	PASS
BLE_1M	Ant1	2480	0~Reference	-2.88	-2.88	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.88	-69.23	≤-22.88	PASS
BLE_1M	Ant1	2480	1000~26500	-2.88	-53.57	≤-22.88	PASS



Test Graphs



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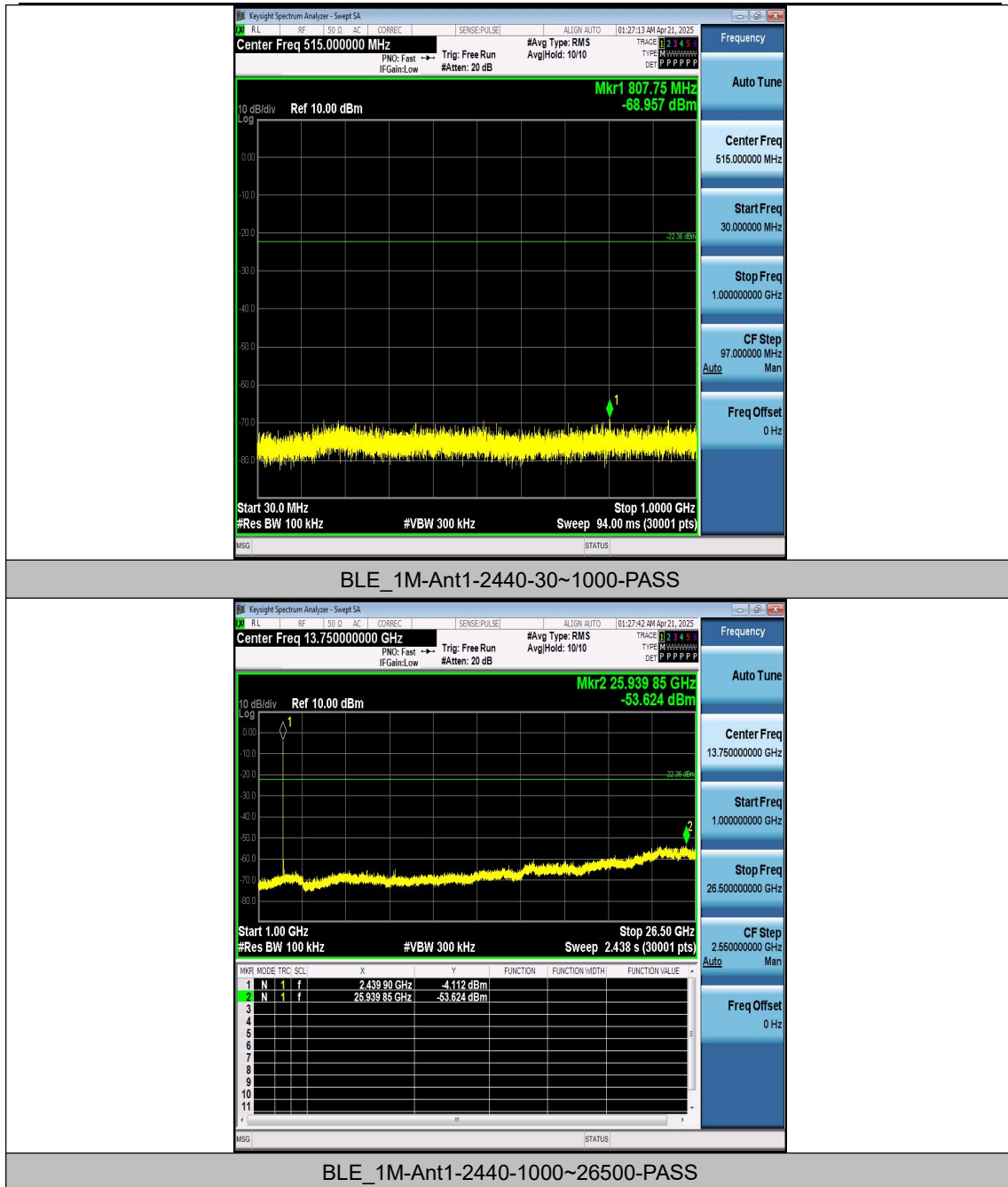


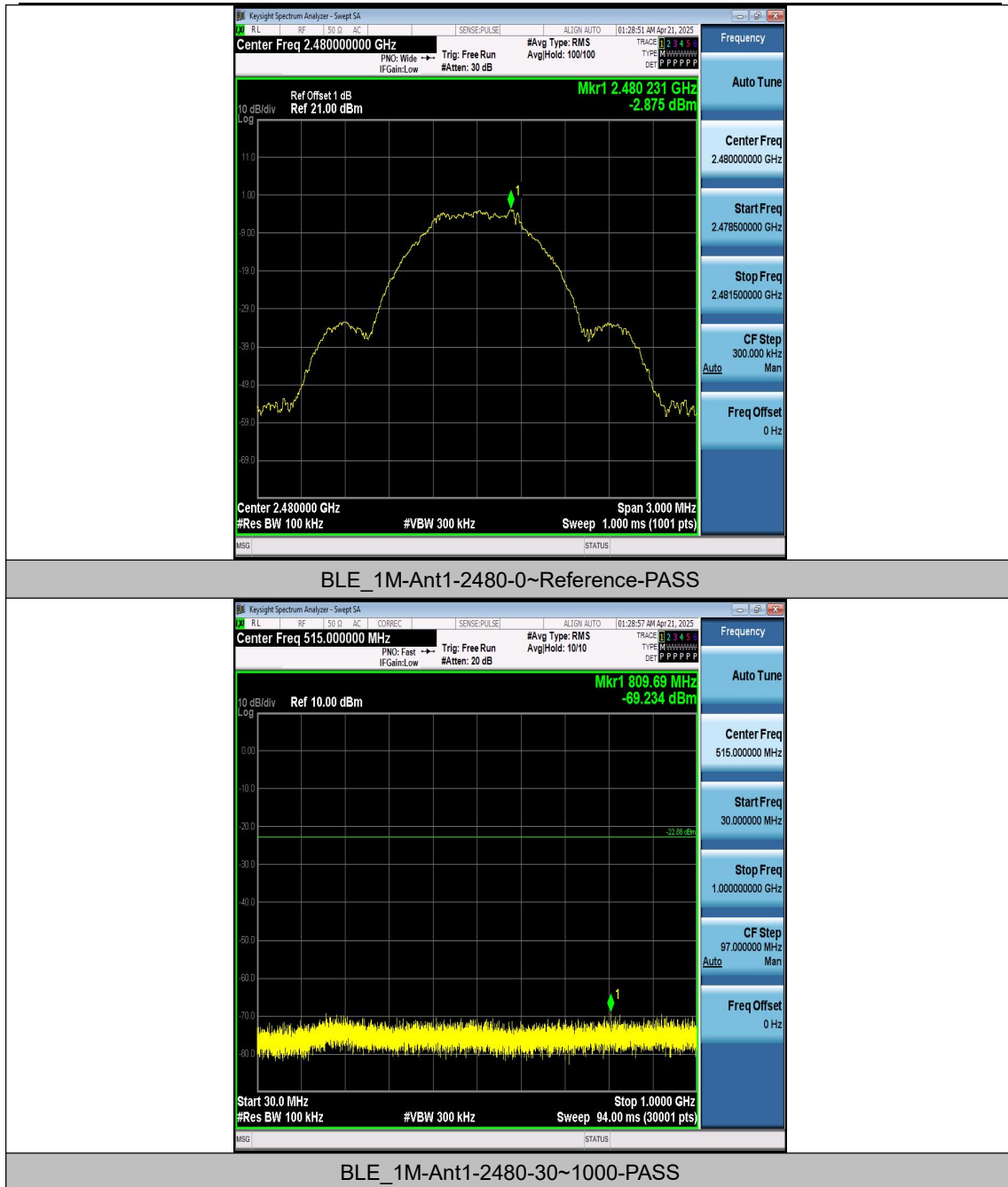
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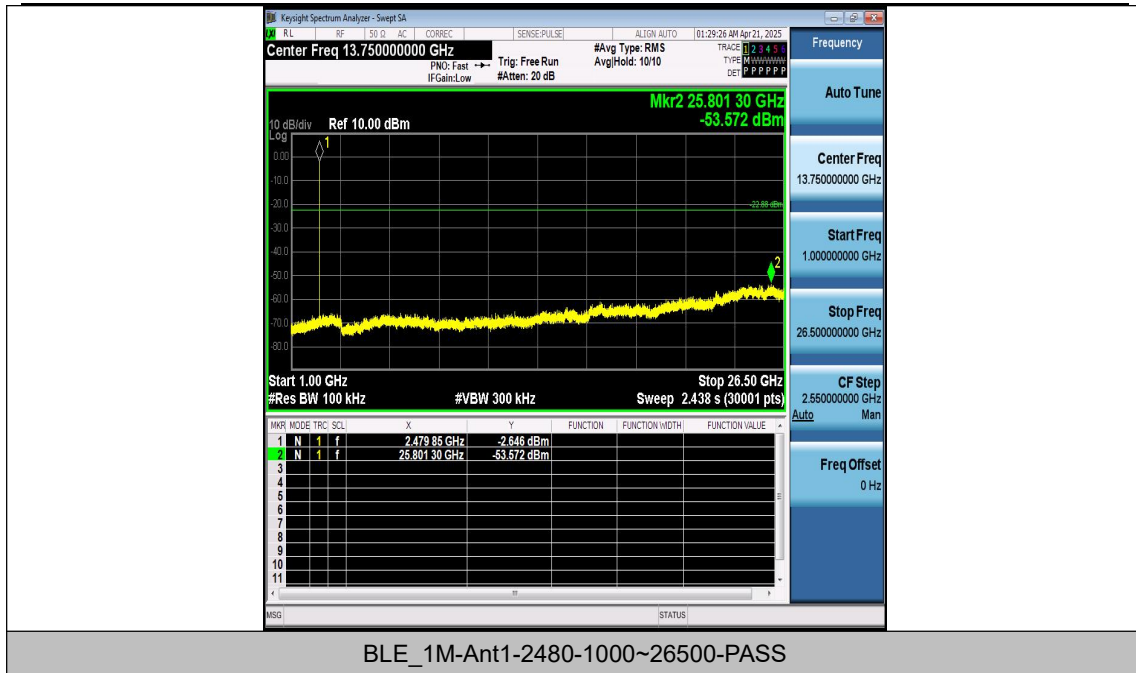




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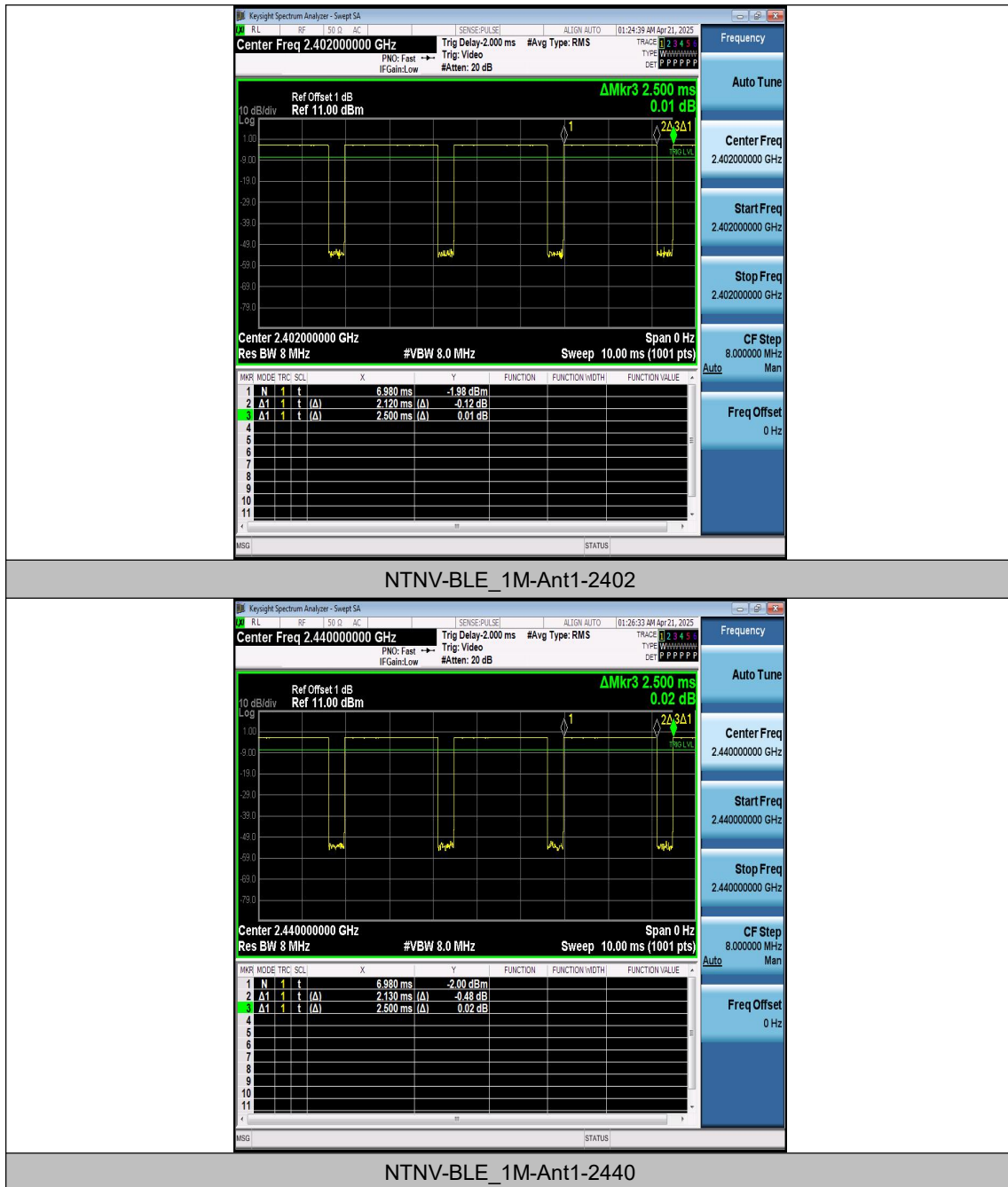
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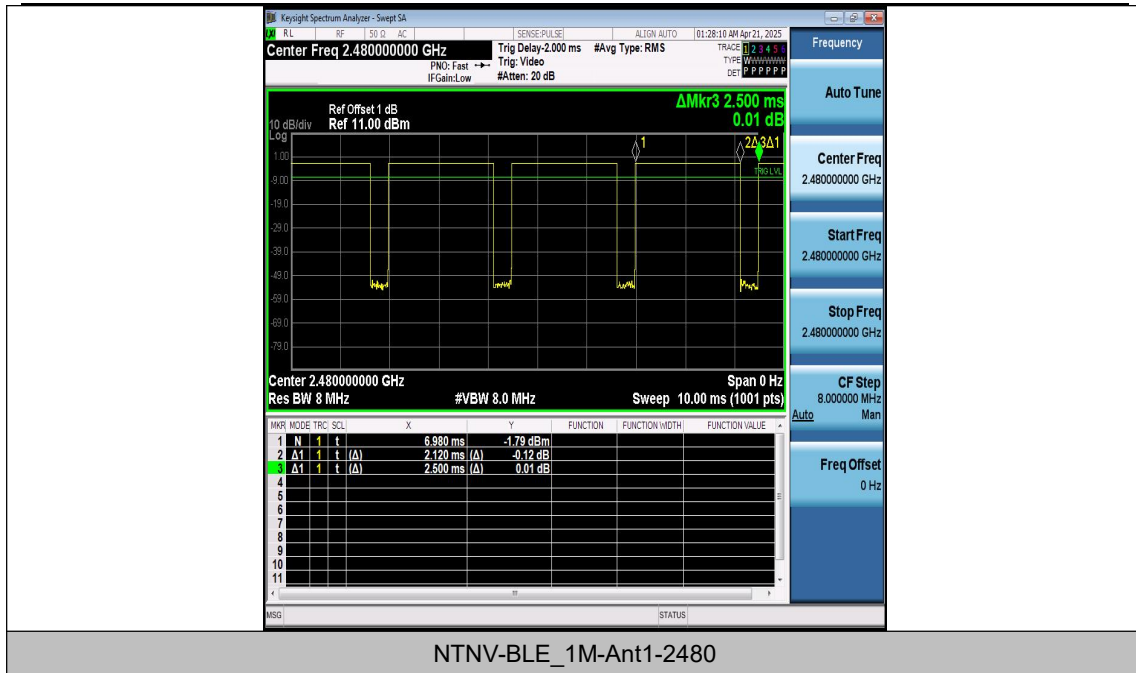
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.12	2.50	84.80	0.72

Test Graphs





NTNV-BLE_1M-Ant1-2480

---End---

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