

Appendix Test Data

Report No.:	1811C50442616201-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-24	Finish Test Date:	2025-12-29
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25°C	Relative Humidity:	45%
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	0.700	2401.664	2402.364	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.680	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.676	2480.368	0.5	PASS
BLE_2M	Ant1	2402	1.064	2401.460	2402.524	0.5	PASS
BLE_2M	Ant1	2440	1.368	2439.328	2440.696	0.5	PASS
BLE_2M	Ant1	2480	1.124	2479.460	2480.584	0.5	PASS

Test Graphs



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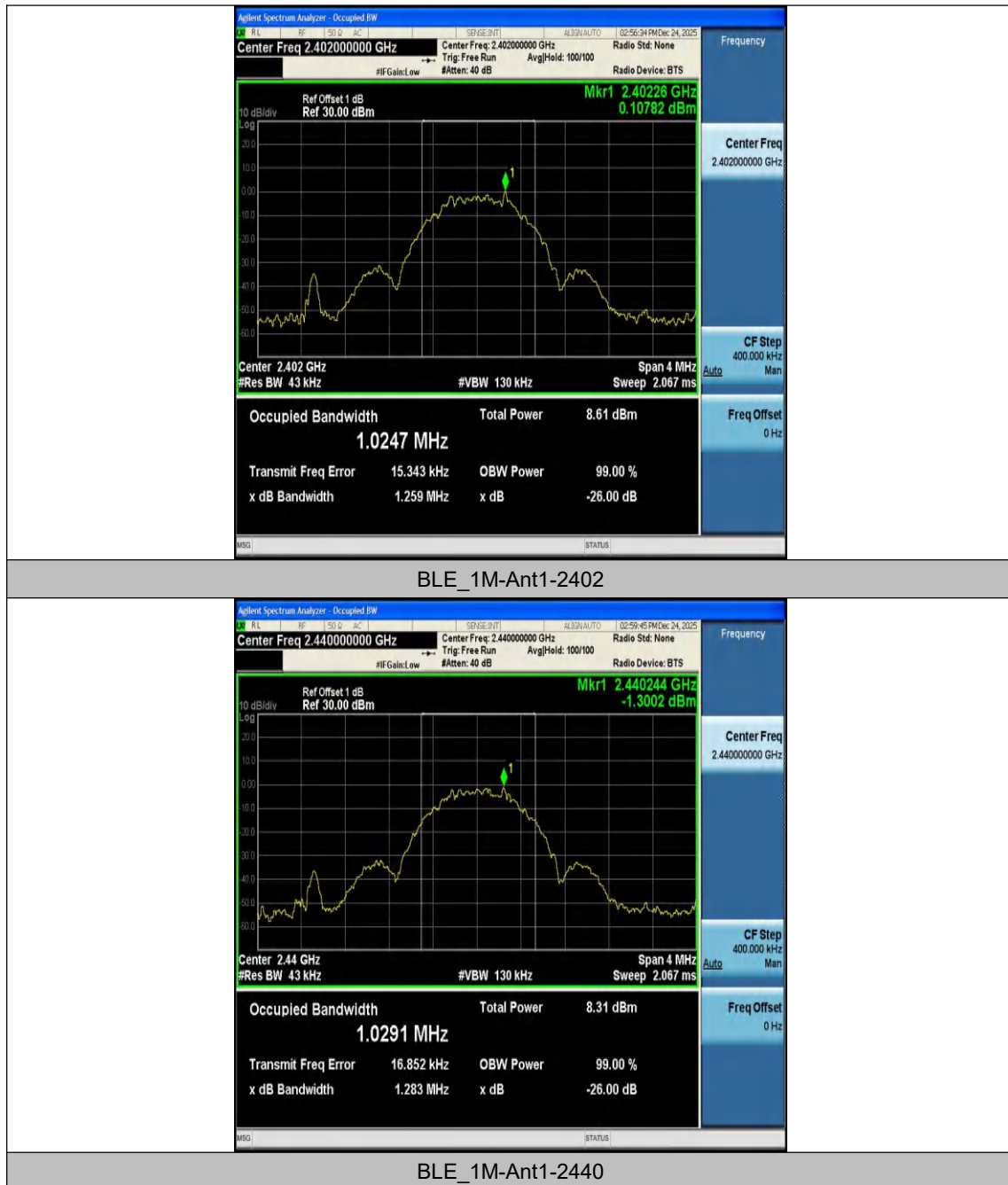
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0247	2401.5030	2402.5277	---	---
BLE_1M	Ant1	2440	1.0291	2439.5023	2440.5314	---	---
BLE_1M	Ant1	2480	1.0345	2479.4988	2480.5333	---	---
BLE_2M	Ant1	2402	2.0586	2400.9946	2403.0532	---	---
BLE_2M	Ant1	2440	2.0700	2438.9960	2441.0660	---	---
BLE_2M	Ant1	2480	2.0764	2478.9894	2481.0658	---	---

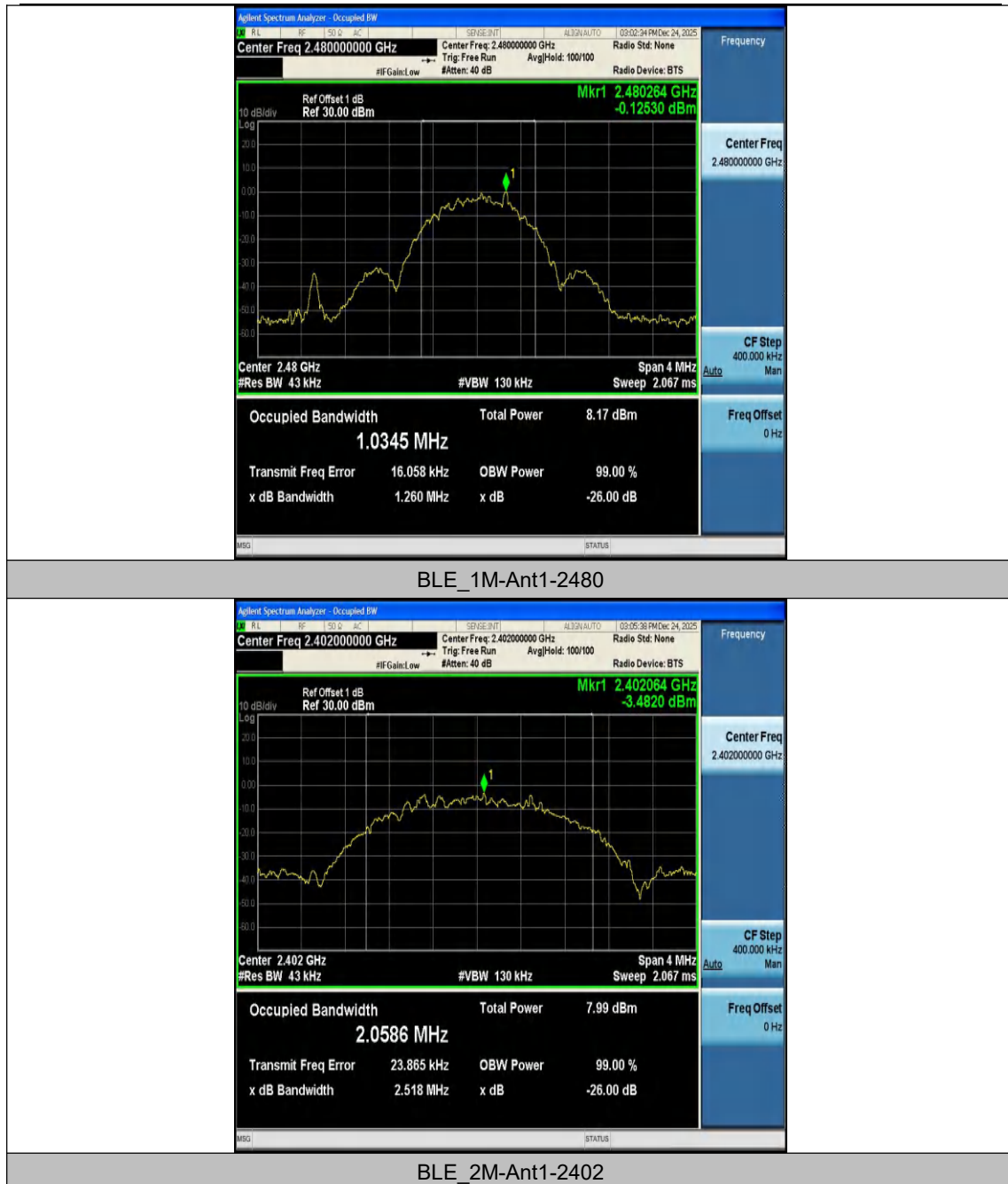
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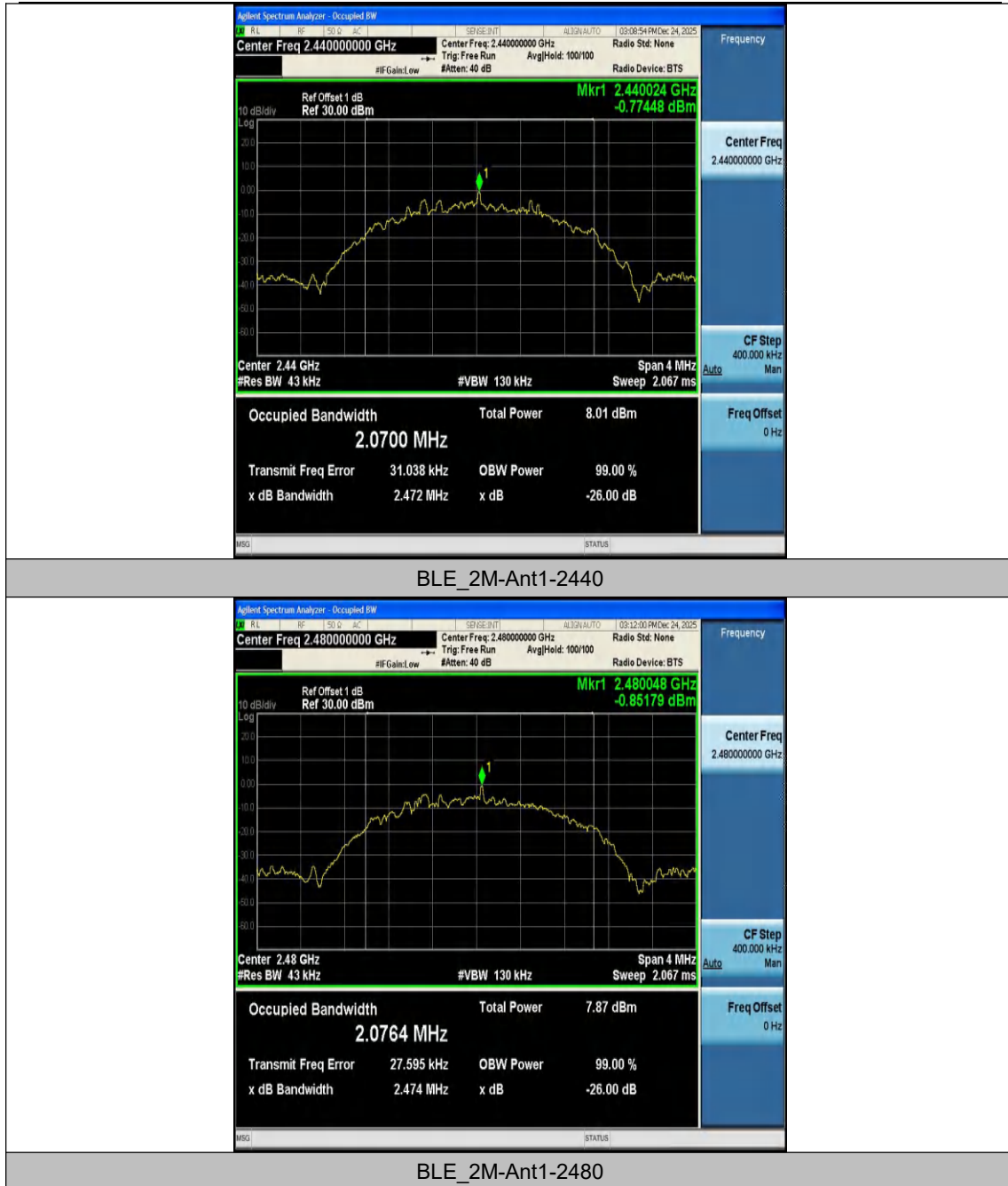
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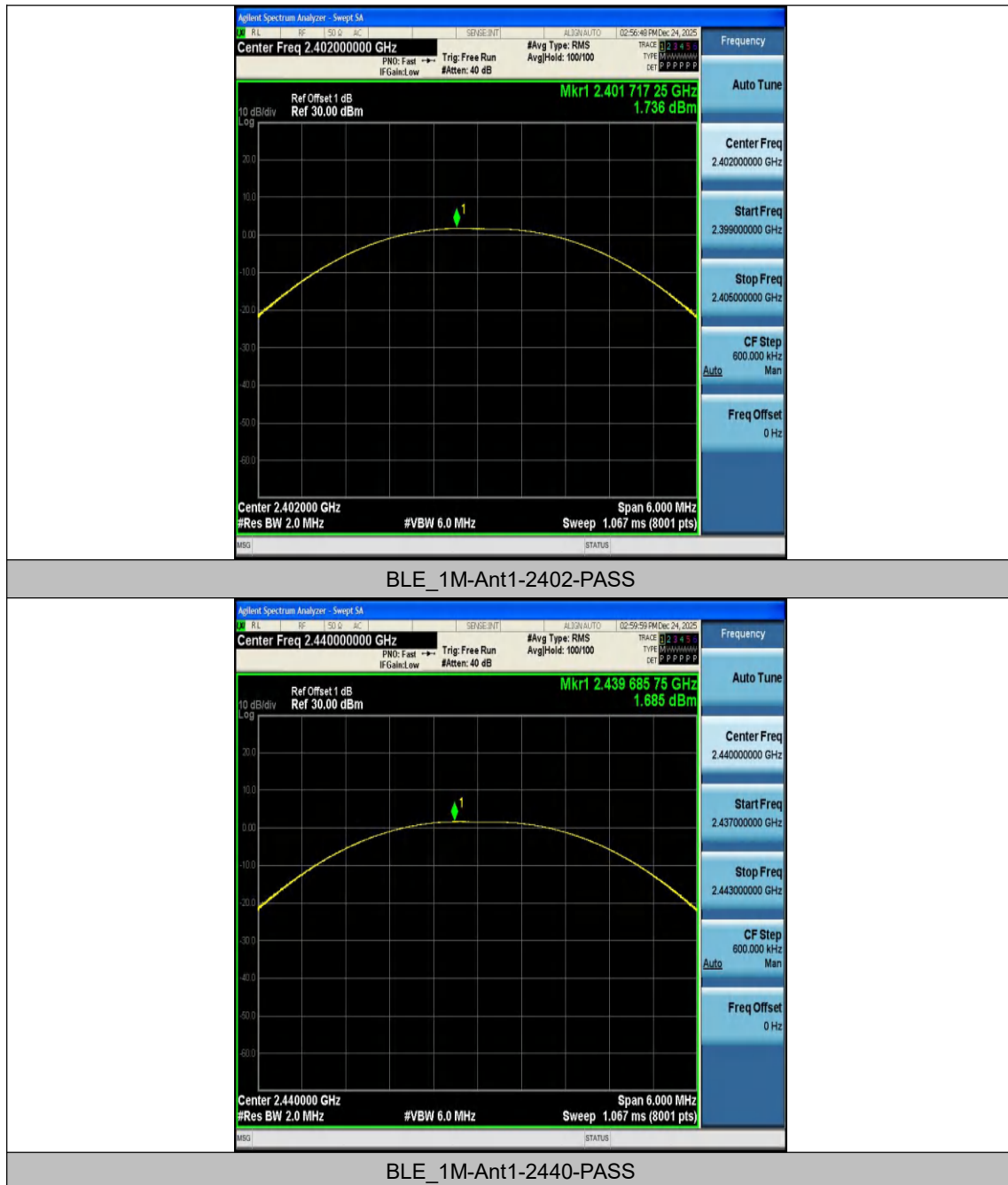
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.74	≤30	PASS
BLE_1M	Ant1	2440	1.69	≤30	PASS
BLE_1M	Ant1	2480	1.54	≤30	PASS
BLE_2M	Ant1	2402	1.91	≤30	PASS
BLE_2M	Ant1	2440	1.93	≤30	PASS
BLE_2M	Ant1	2480	1.82	≤30	PASS

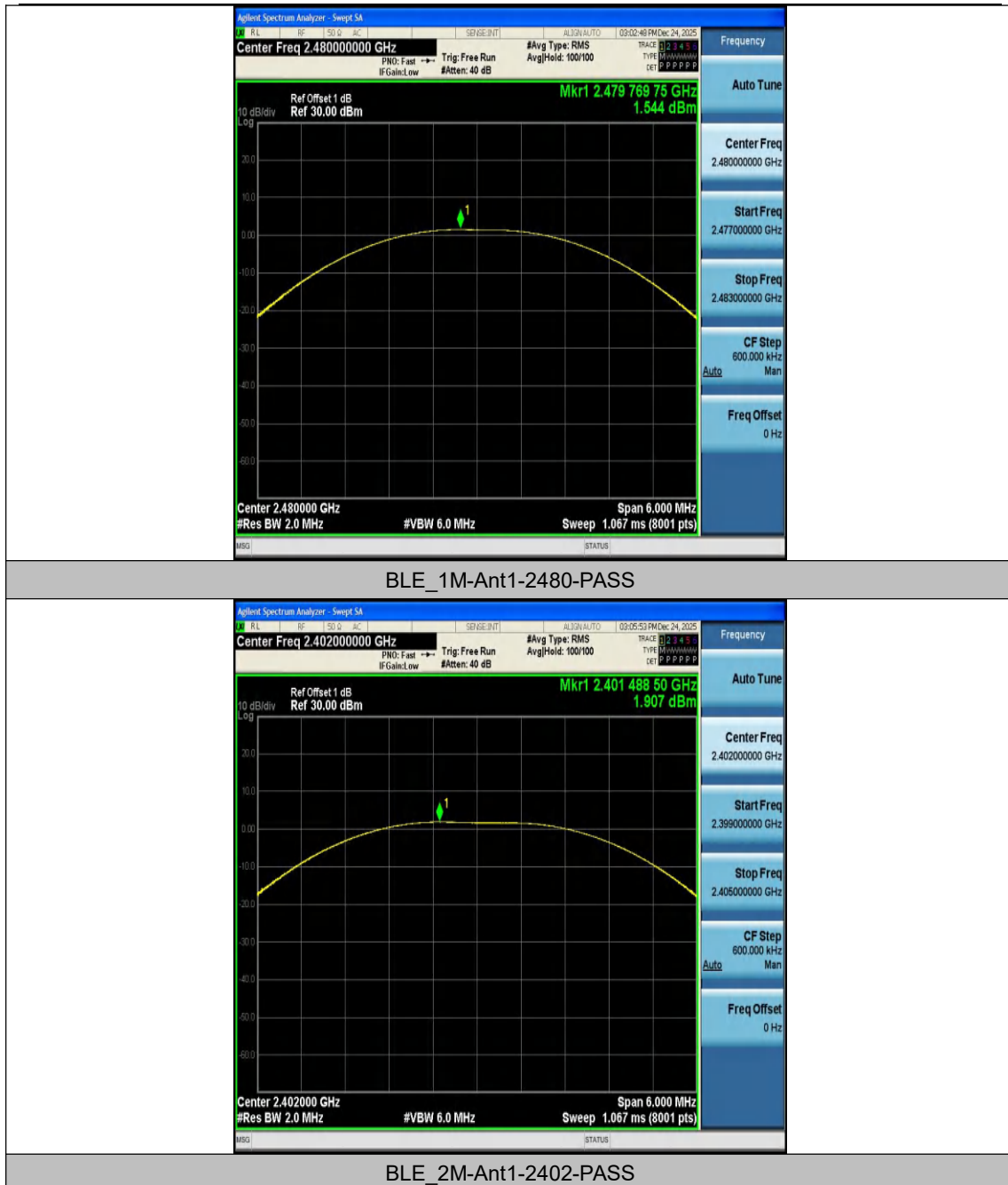
Test Graphs Peak



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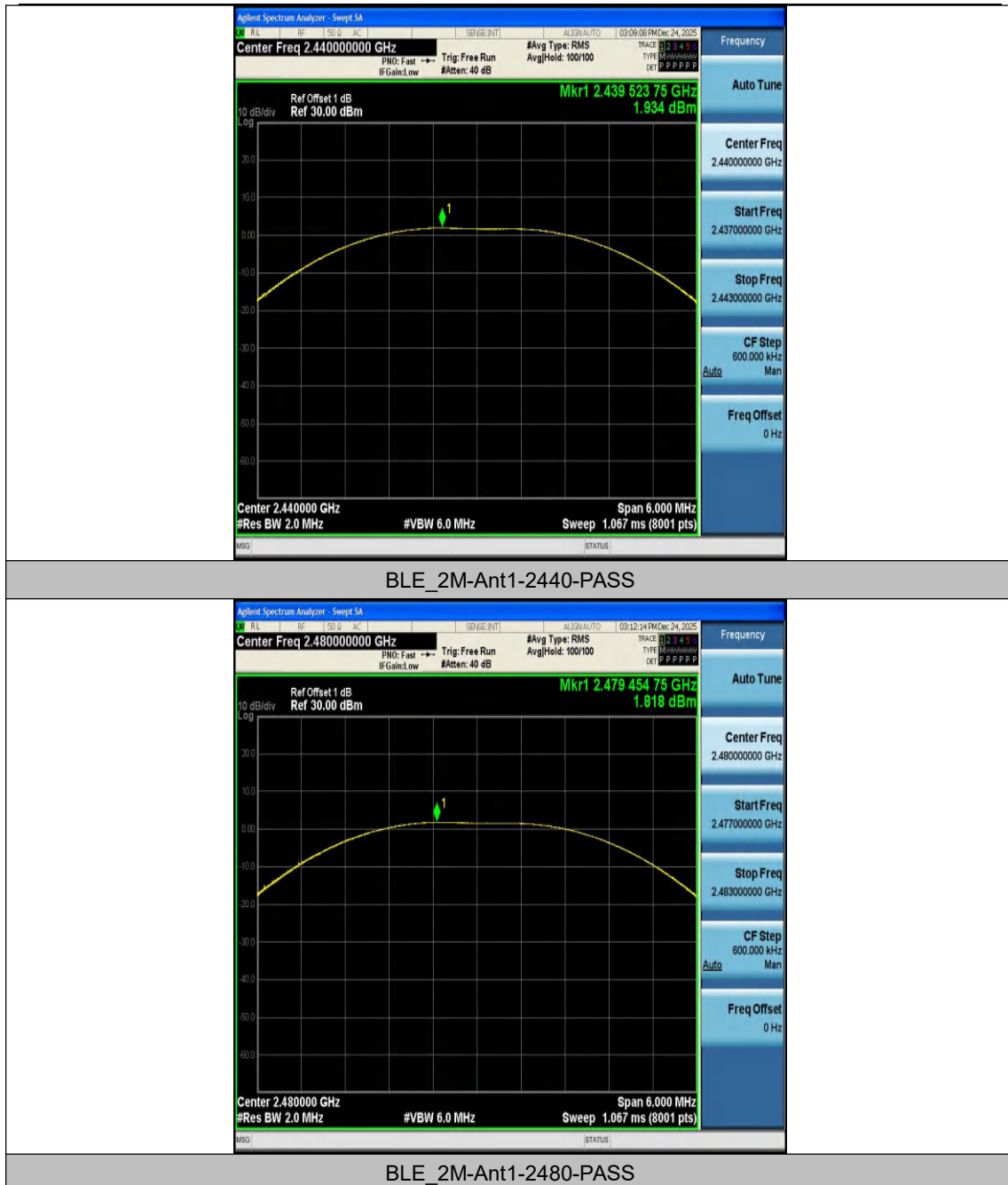
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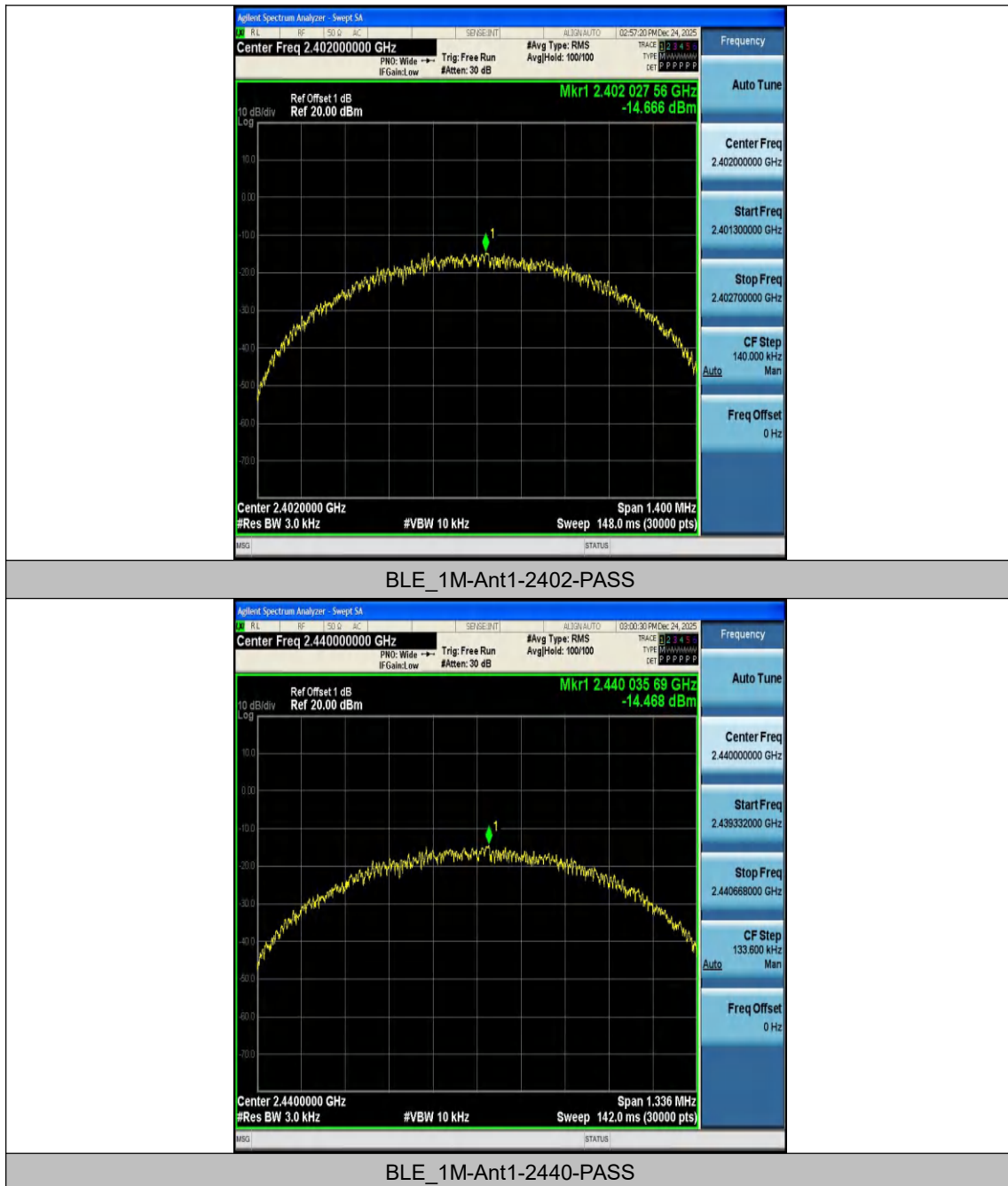
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.67	≤8.00	PASS
BLE_1M	Ant1	2440	-14.47	≤8.00	PASS
BLE_1M	Ant1	2480	-14.75	≤8.00	PASS
BLE_2M	Ant1	2402	-16.44	≤8.00	PASS
BLE_2M	Ant1	2440	-17.88	≤8.00	PASS
BLE_2M	Ant1	2480	-16.46	≤8.00	PASS

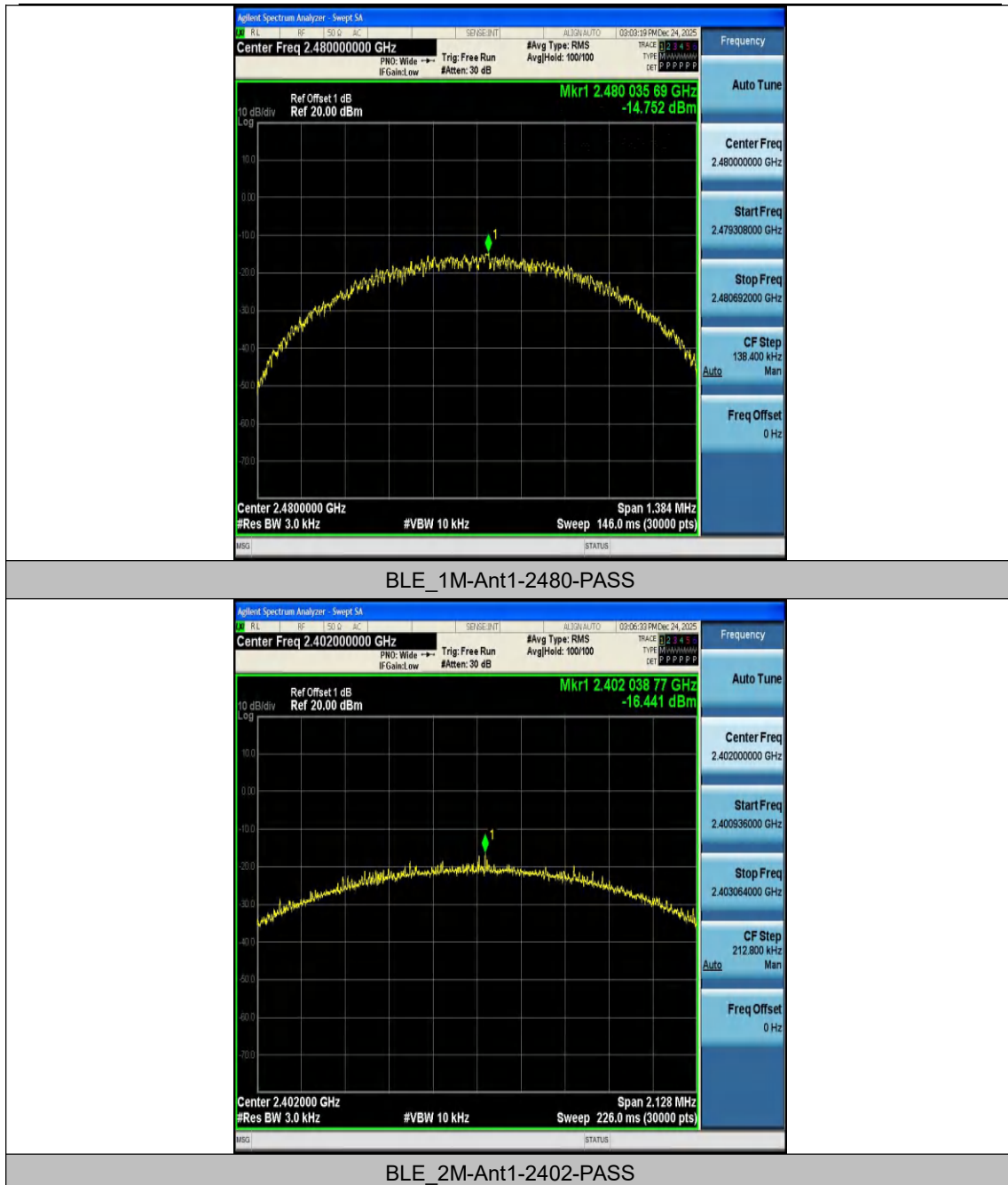
Test Graphs



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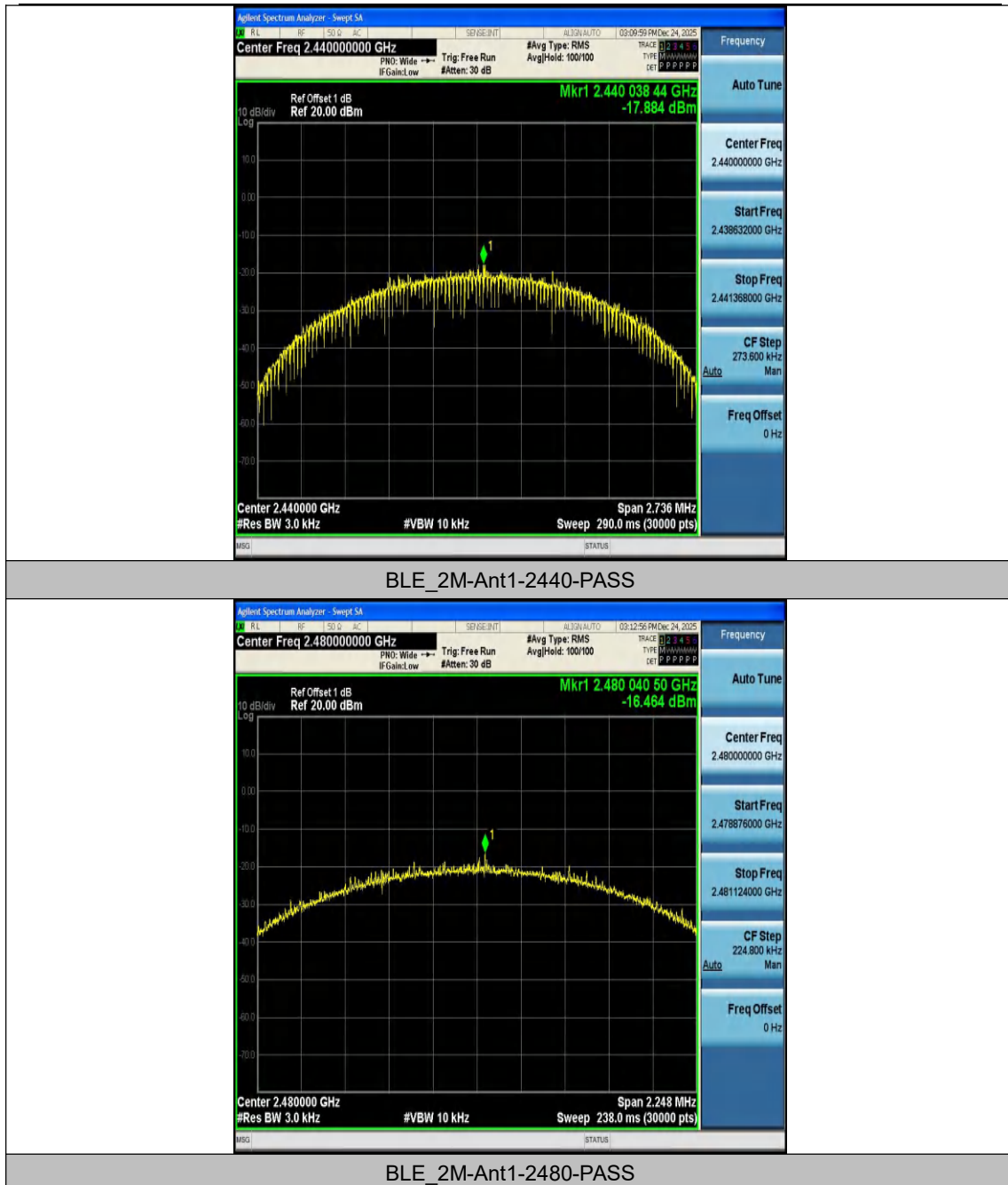
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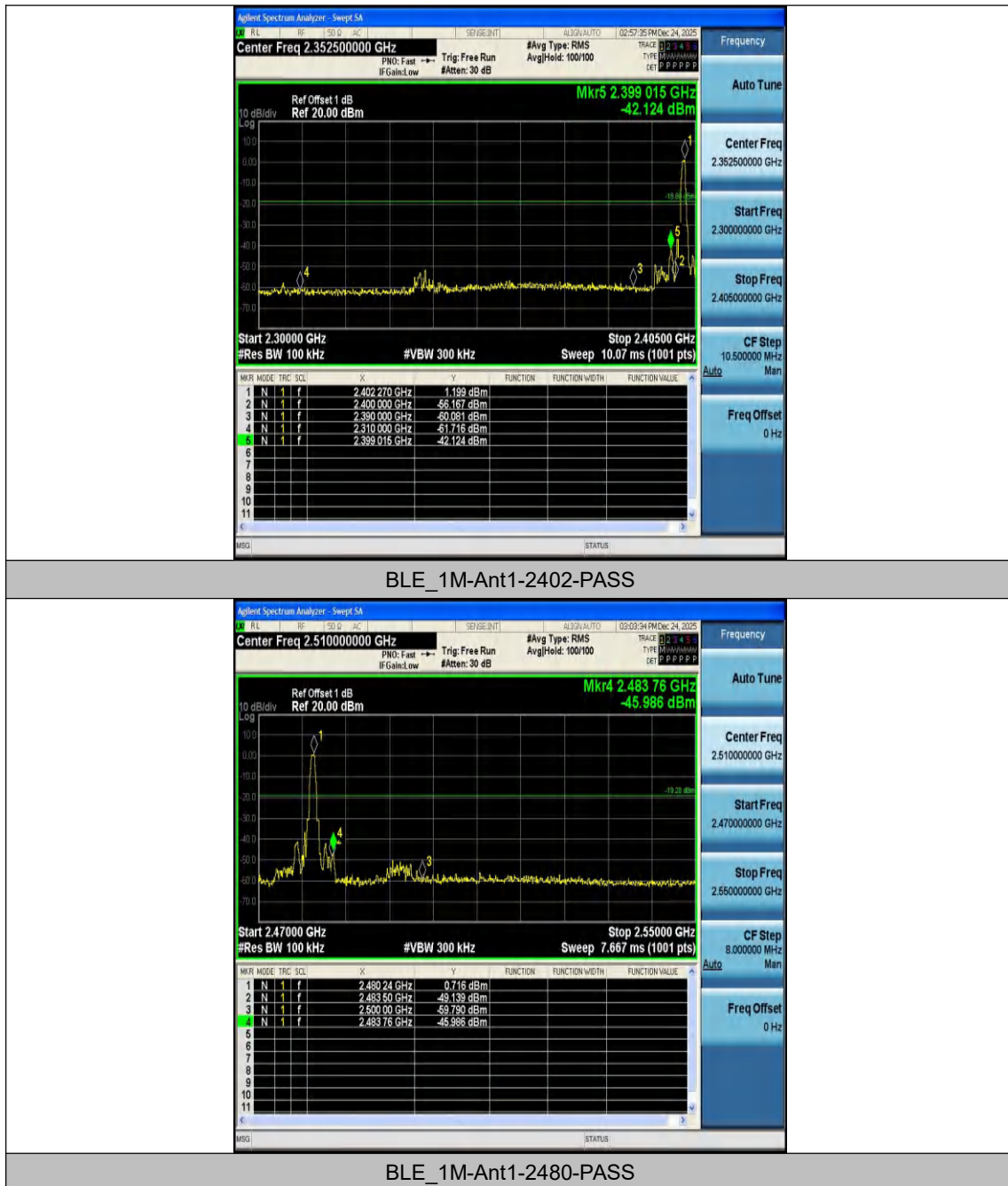
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.20	-42.12	≤-18.8	PASS
BLE_1M	Ant1	High	2480	0.72	-45.99	≤-19.28	PASS
BLE_2M	Ant1	Low	2402	-0.82	-35.28	≤-20.82	PASS
BLE_2M	Ant1	High	2480	0.72	-50.01	≤-19.28	PASS

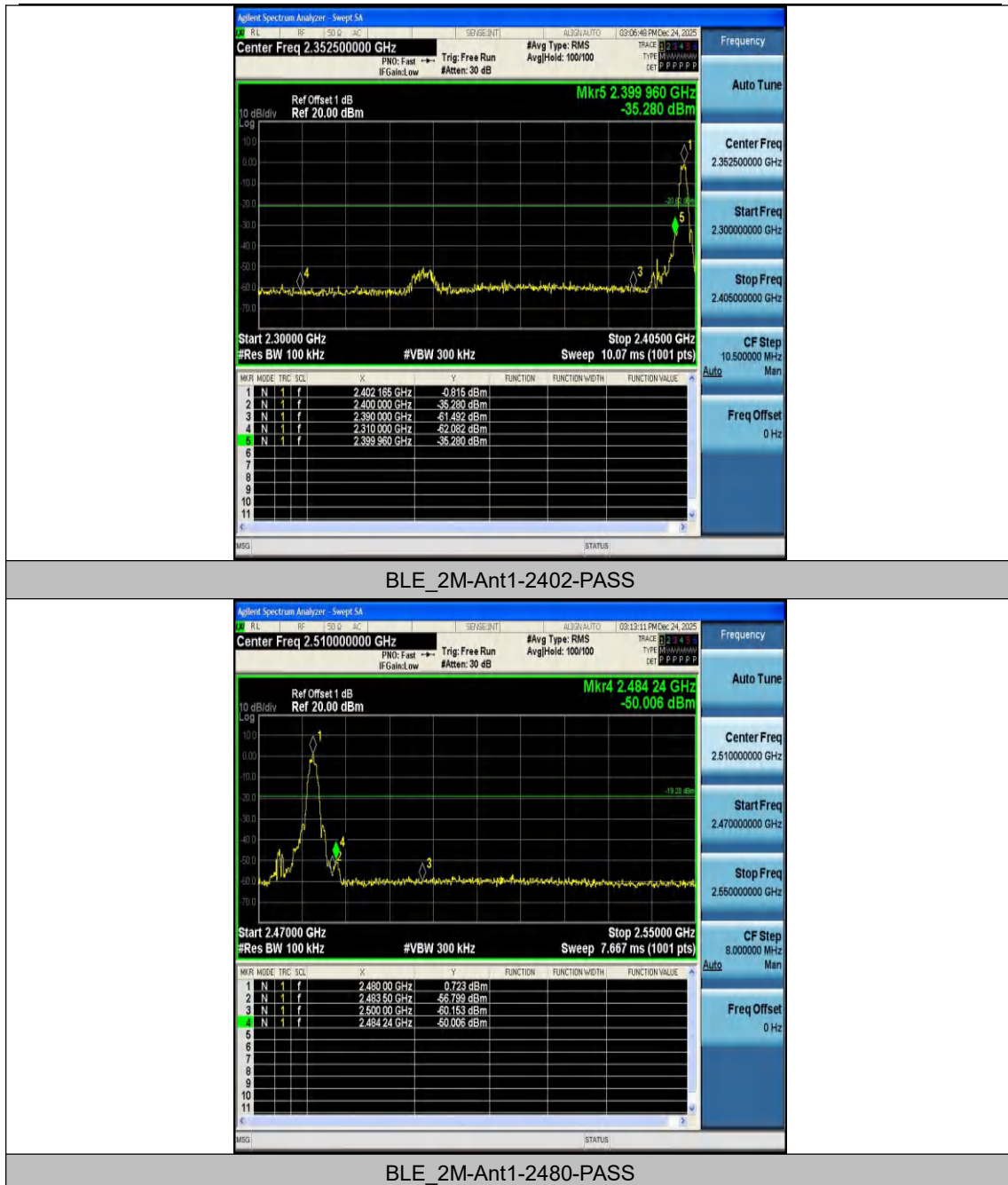
Test Graphs



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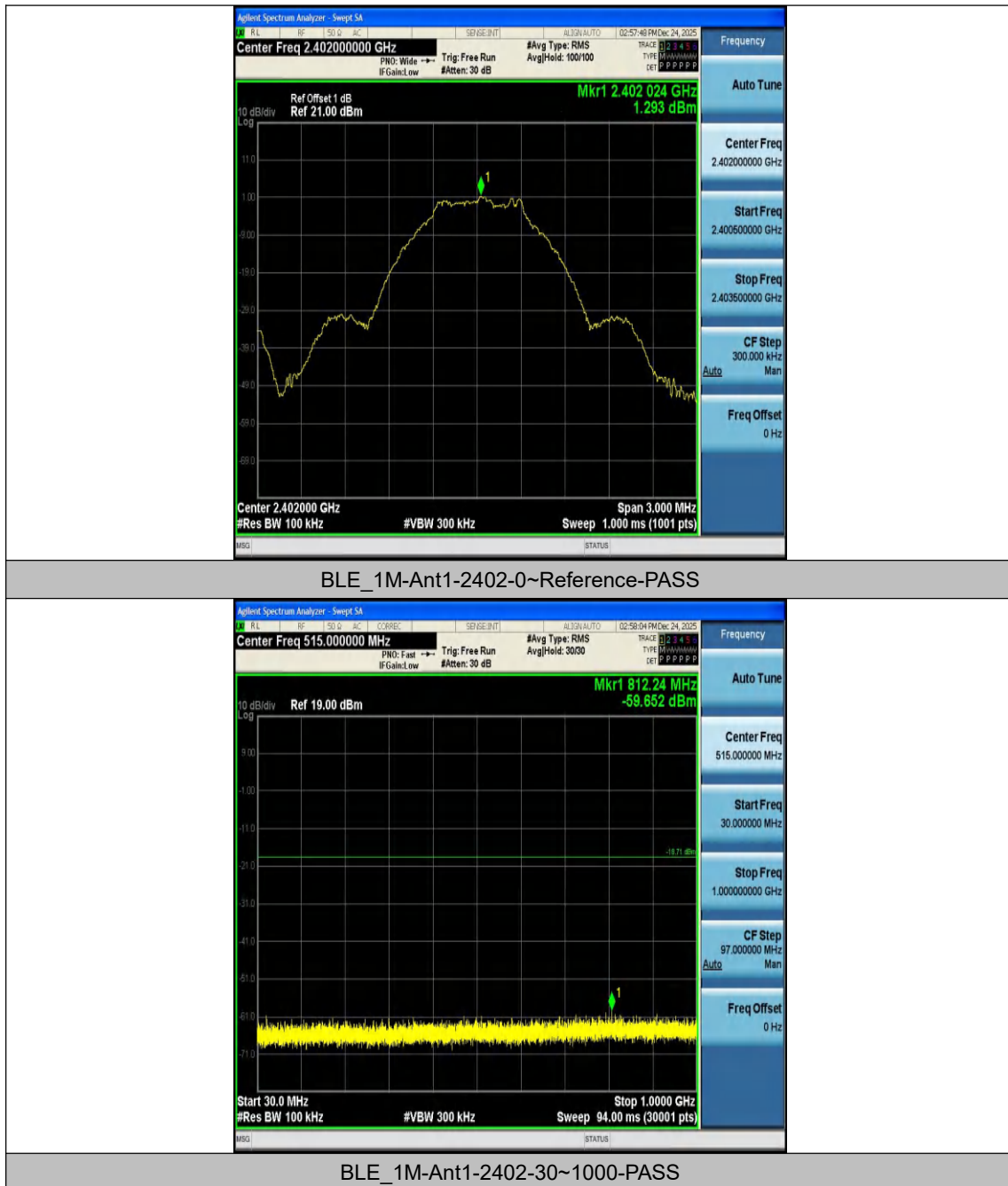
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.29	1.29	---	PASS
BLE_1M	Ant1	2402	30~1000	1.29	-59.65	≤-18.71	PASS
BLE_1M	Ant1	2402	1000~26500	1.29	-46.08	≤-18.71	PASS
BLE_1M	Ant1	2440	0~Reference	0.16	0.16	---	PASS
BLE_1M	Ant1	2440	30~1000	0.16	-59.53	≤-19.84	PASS
BLE_1M	Ant1	2440	1000~26500	0.16	-39.18	≤-19.84	PASS
BLE_1M	Ant1	2480	0~Reference	0.52	0.52	---	PASS
BLE_1M	Ant1	2480	30~1000	0.52	-58.99	≤-19.48	PASS
BLE_1M	Ant1	2480	1000~26500	0.52	-45.94	≤-19.48	PASS
BLE_2M	Ant1	2402	0~Reference	1.04	1.04	---	PASS
BLE_2M	Ant1	2402	30~1000	1.04	-59.89	≤-18.96	PASS
BLE_2M	Ant1	2402	1000~26500	1.04	-46.05	≤-18.96	PASS
BLE_2M	Ant1	2440	0~Reference	1.34	1.34	---	PASS
BLE_2M	Ant1	2440	30~1000	1.34	-59.51	≤-18.66	PASS
BLE_2M	Ant1	2440	1000~26500	1.34	-45.77	≤-18.66	PASS
BLE_2M	Ant1	2480	0~Reference	0.62	0.62	---	PASS
BLE_2M	Ant1	2480	30~1000	0.62	-60.11	≤-19.38	PASS
BLE_2M	Ant1	2480	1000~26500	0.62	-45.23	≤-19.38	PASS

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

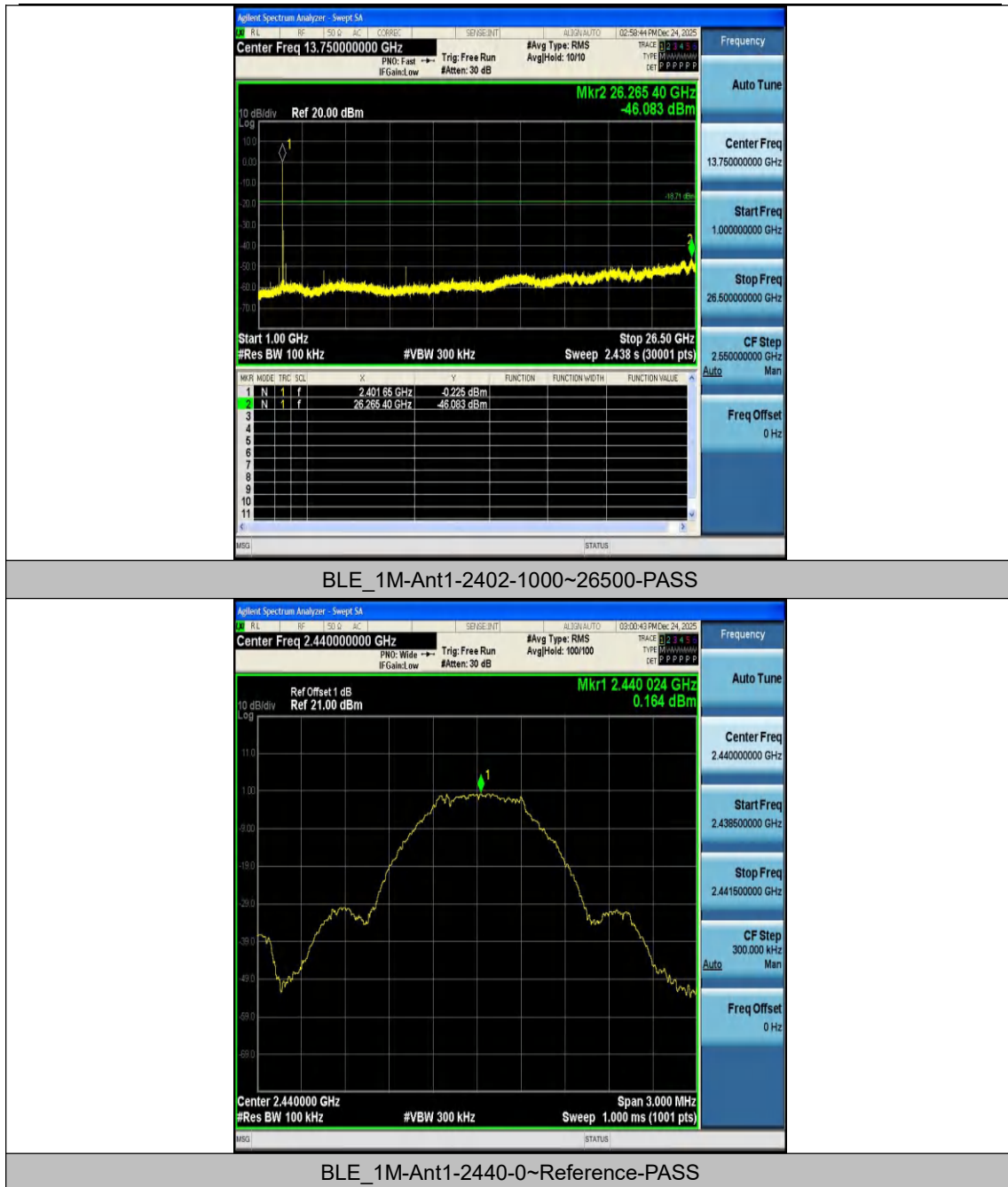
Test Graphs



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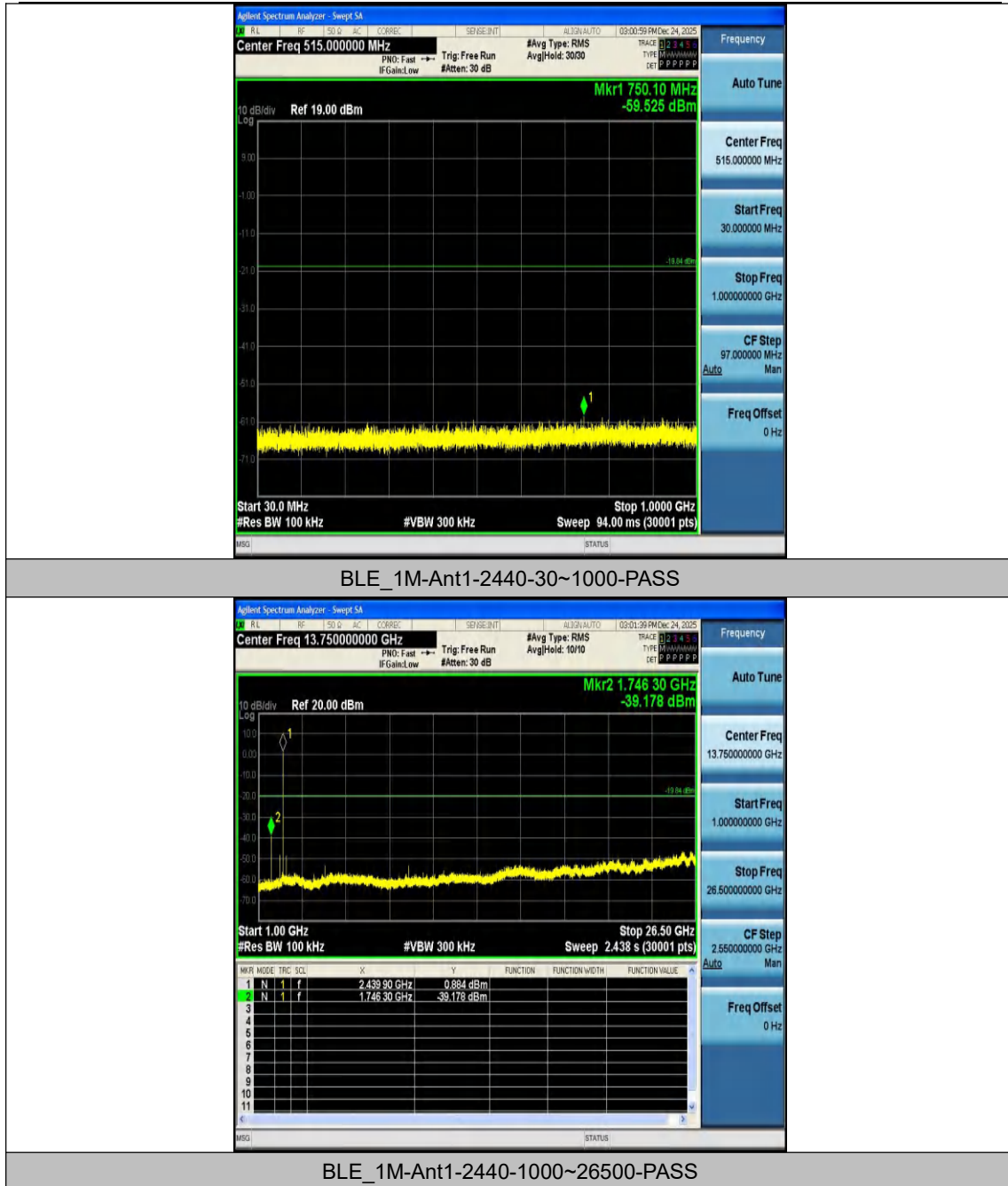
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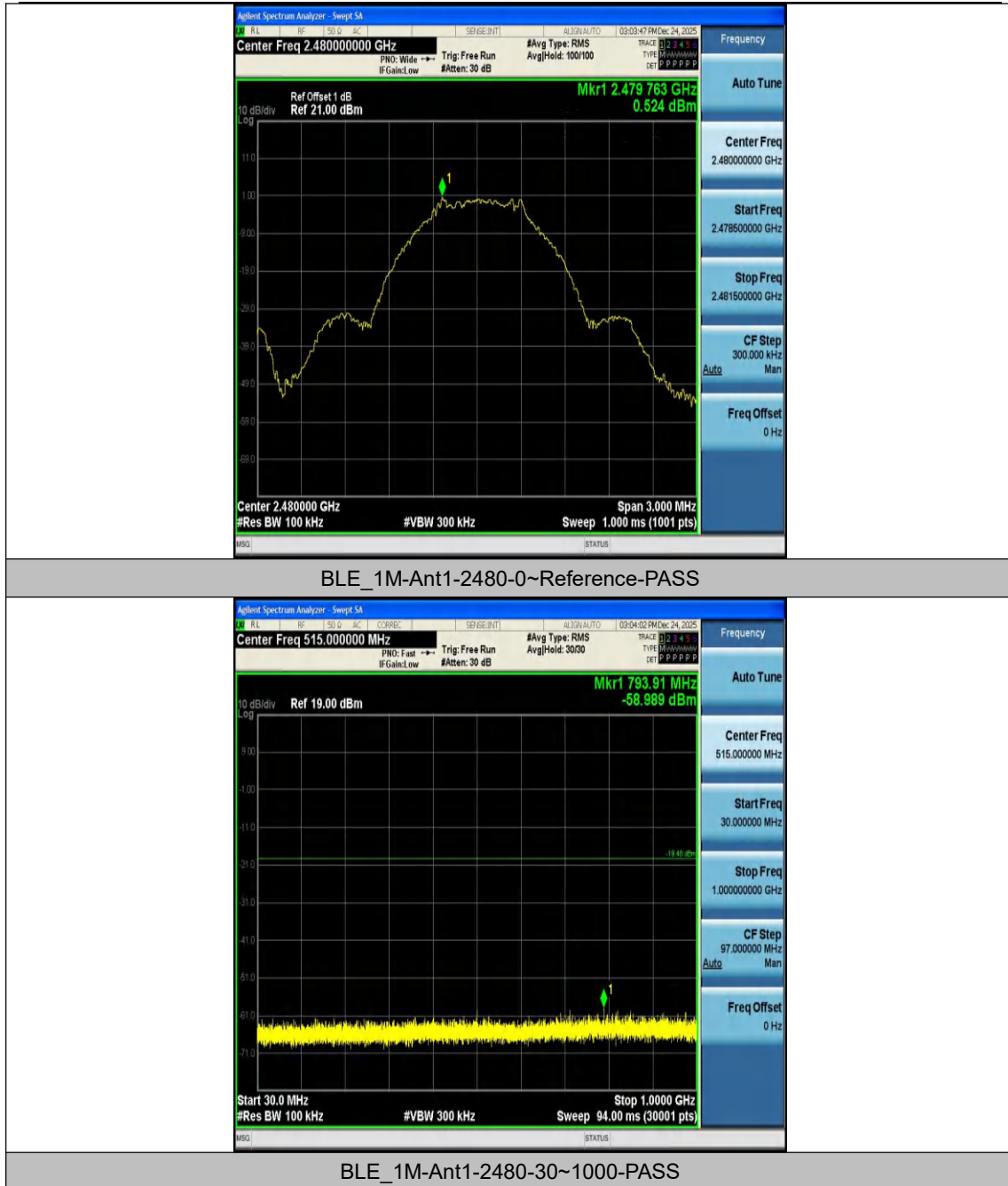
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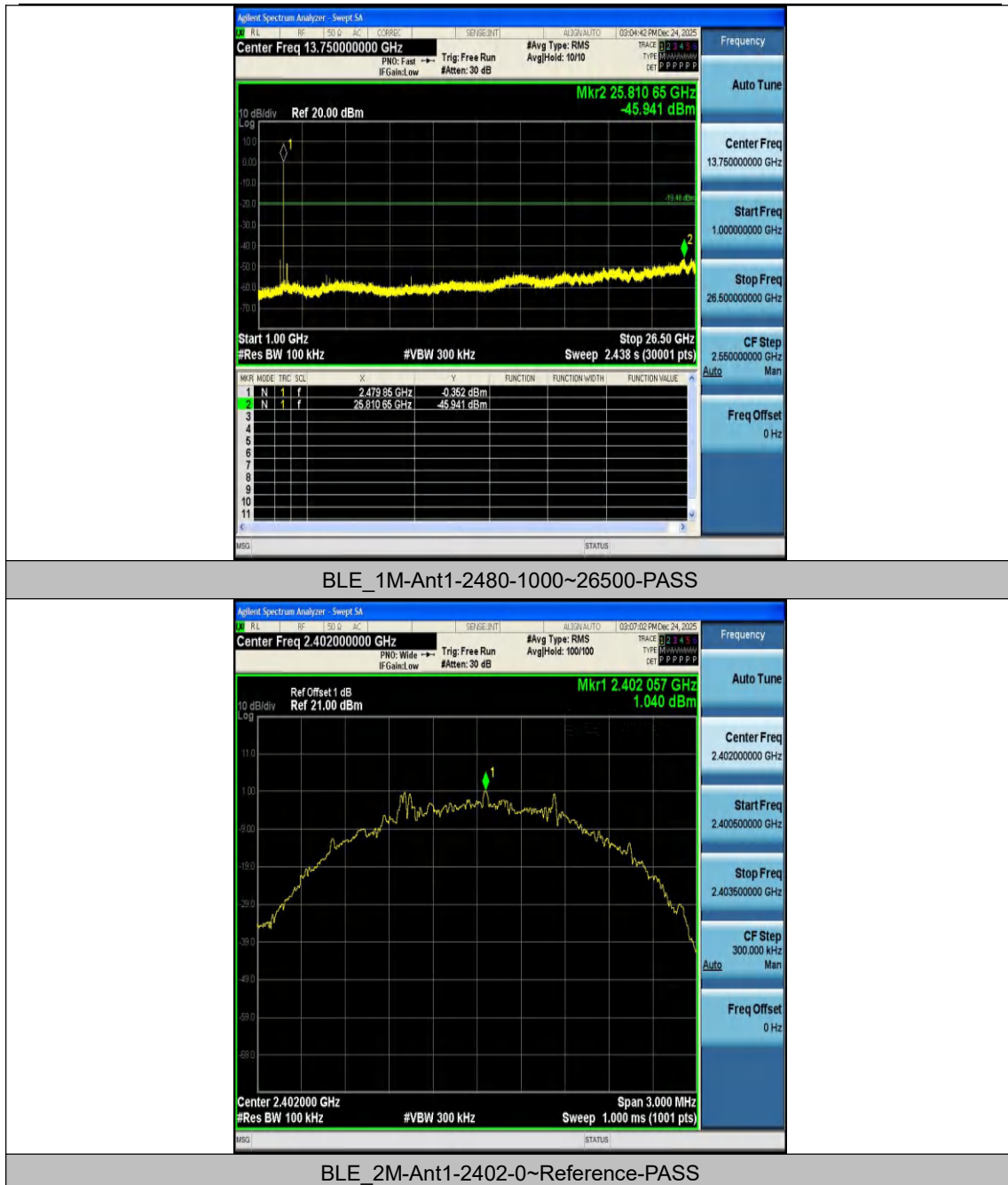
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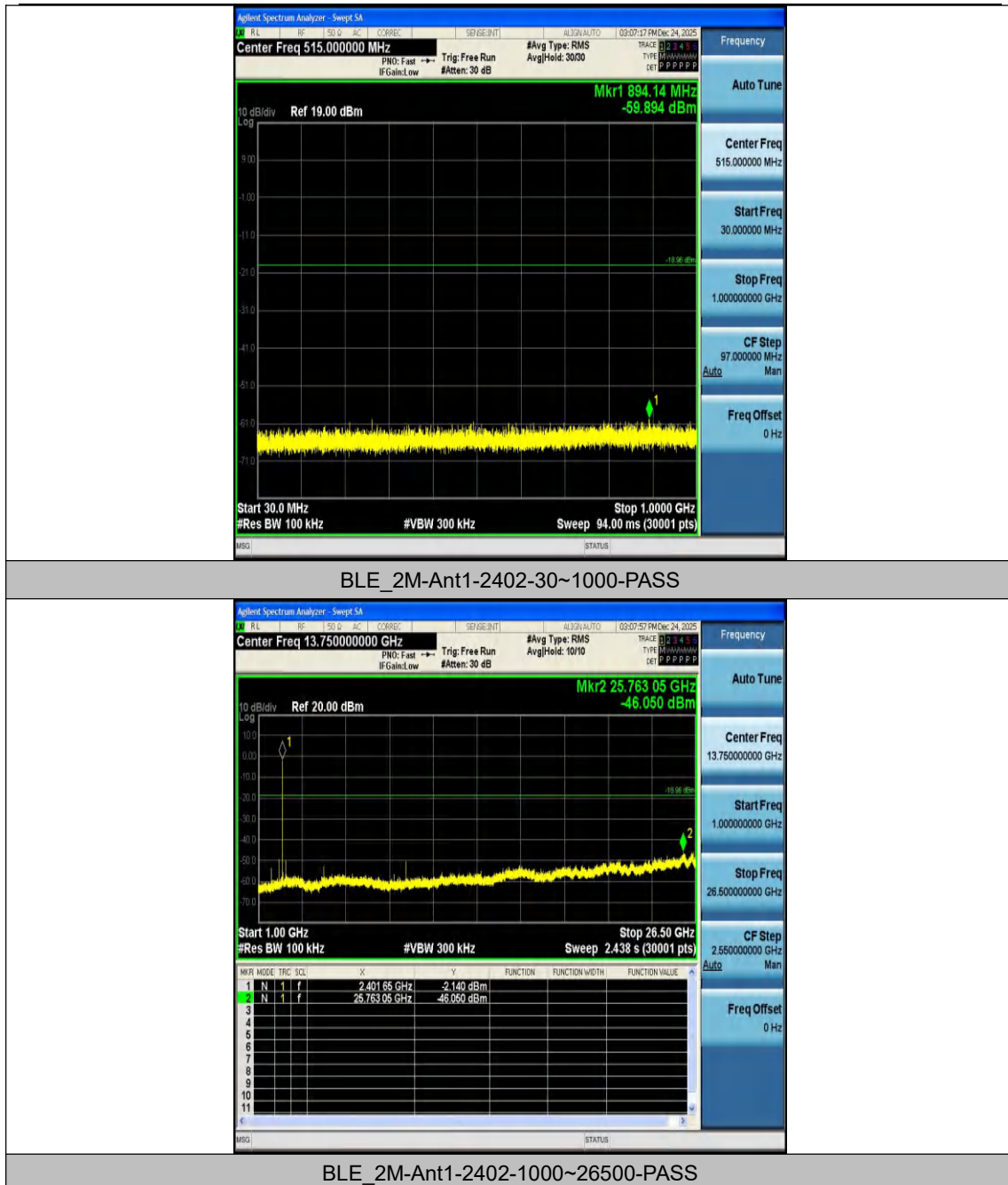
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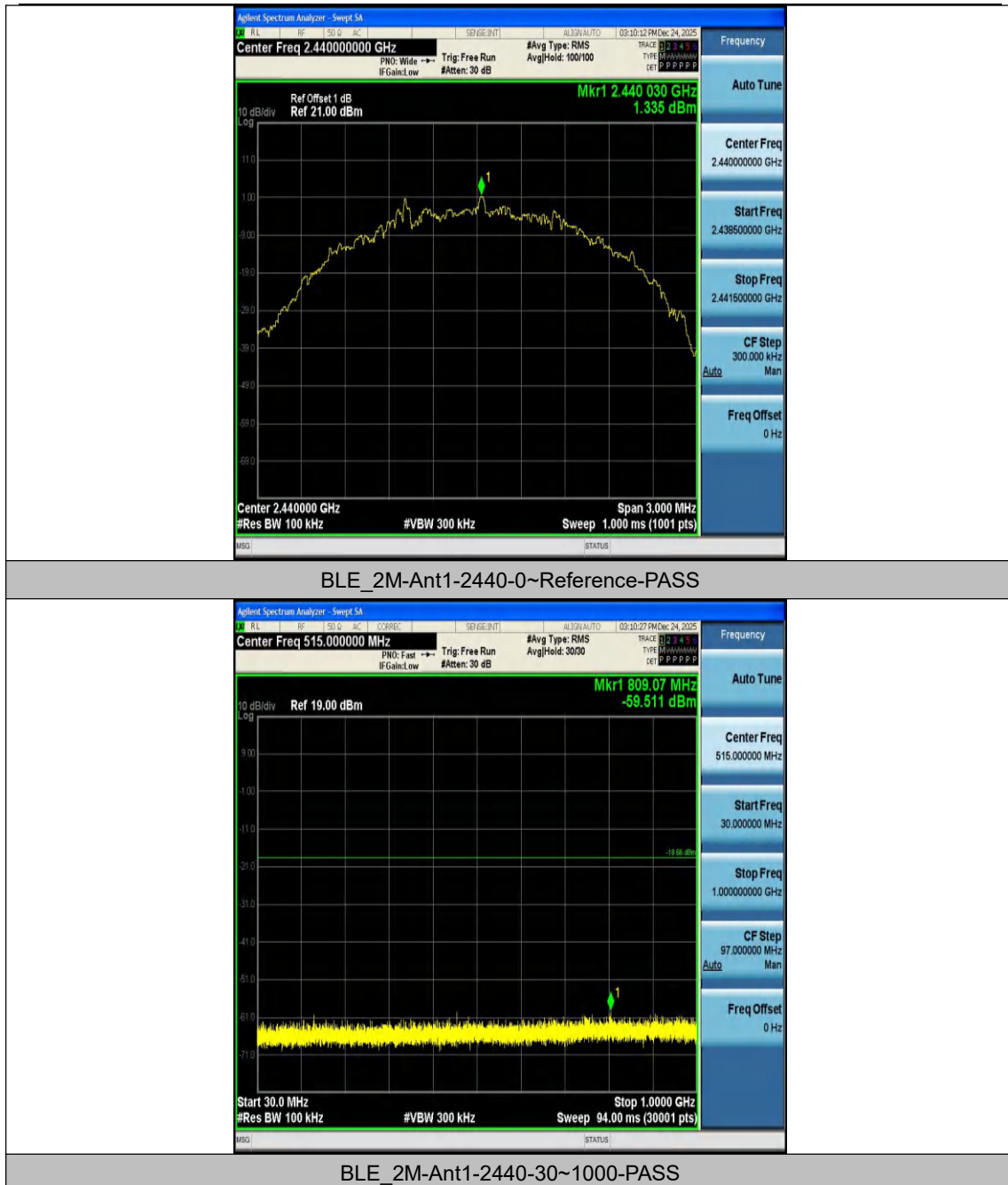


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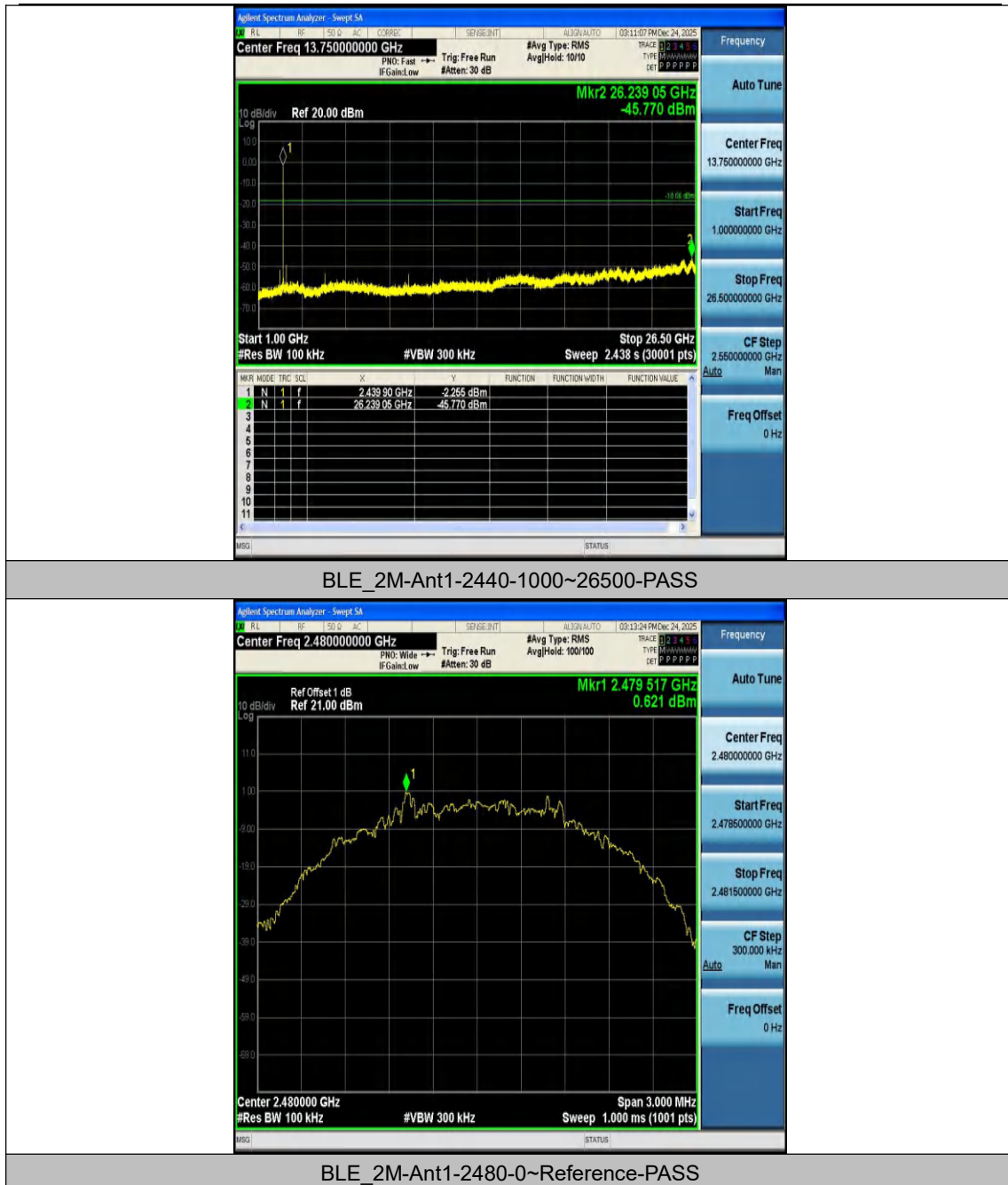




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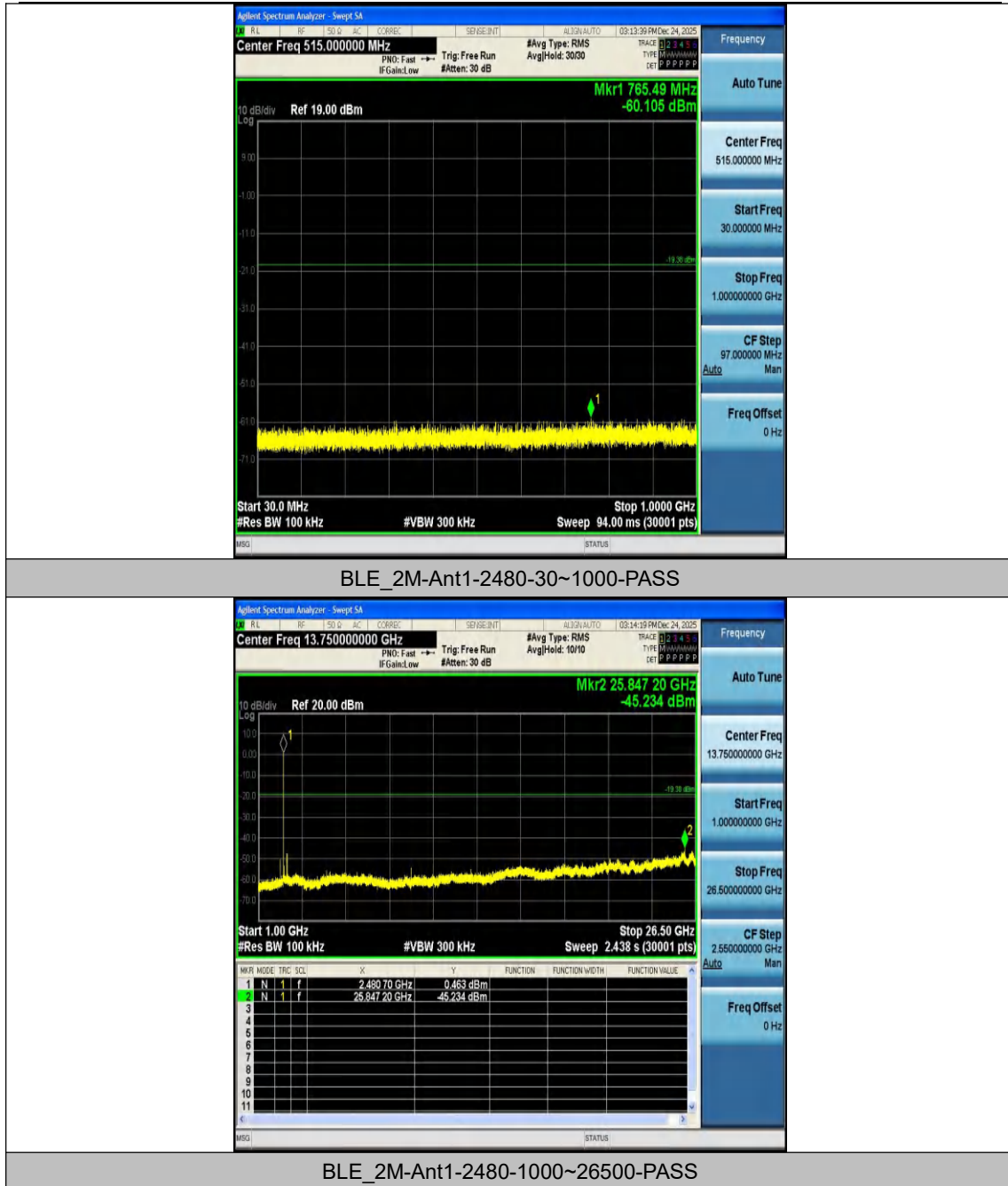
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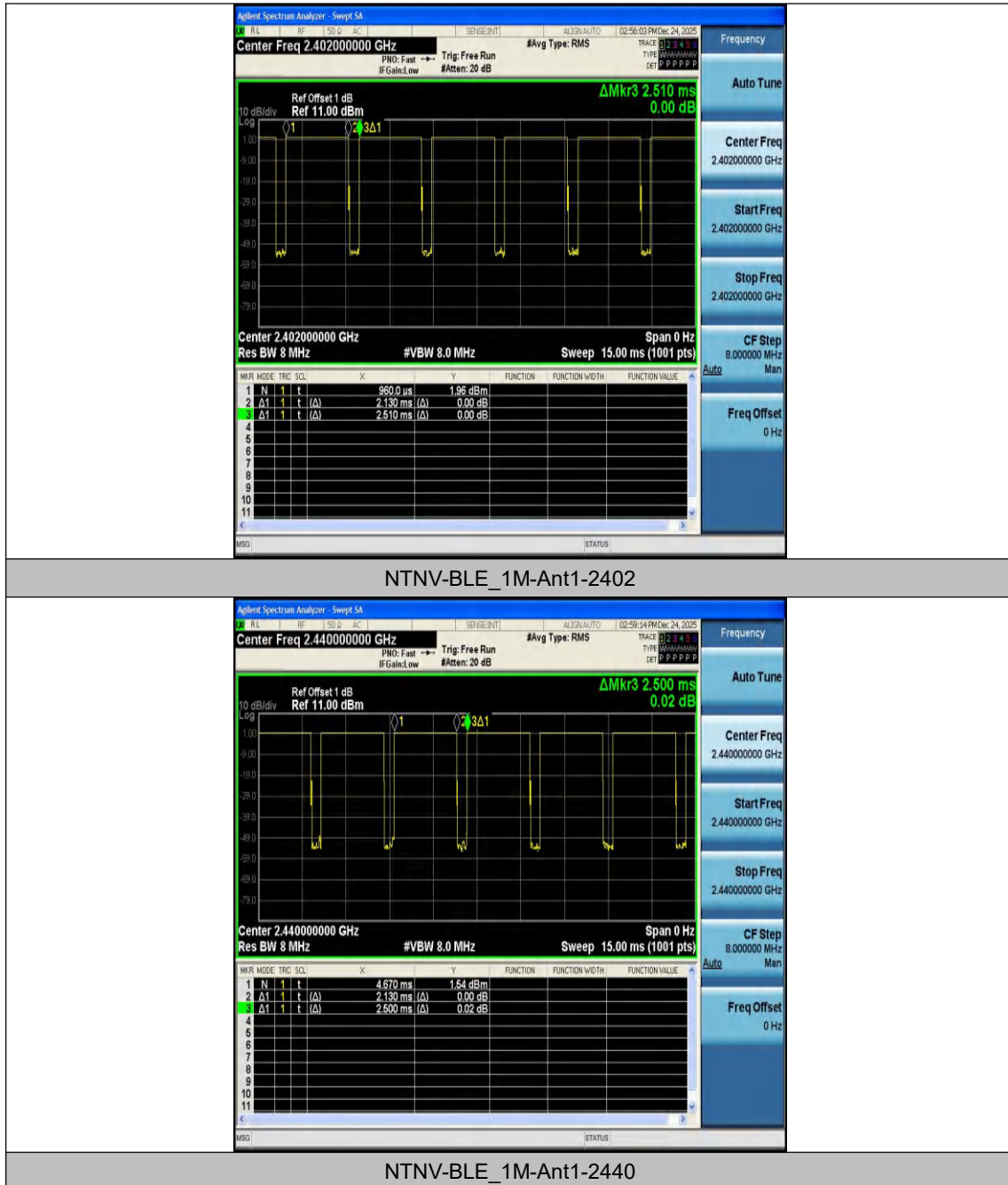
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

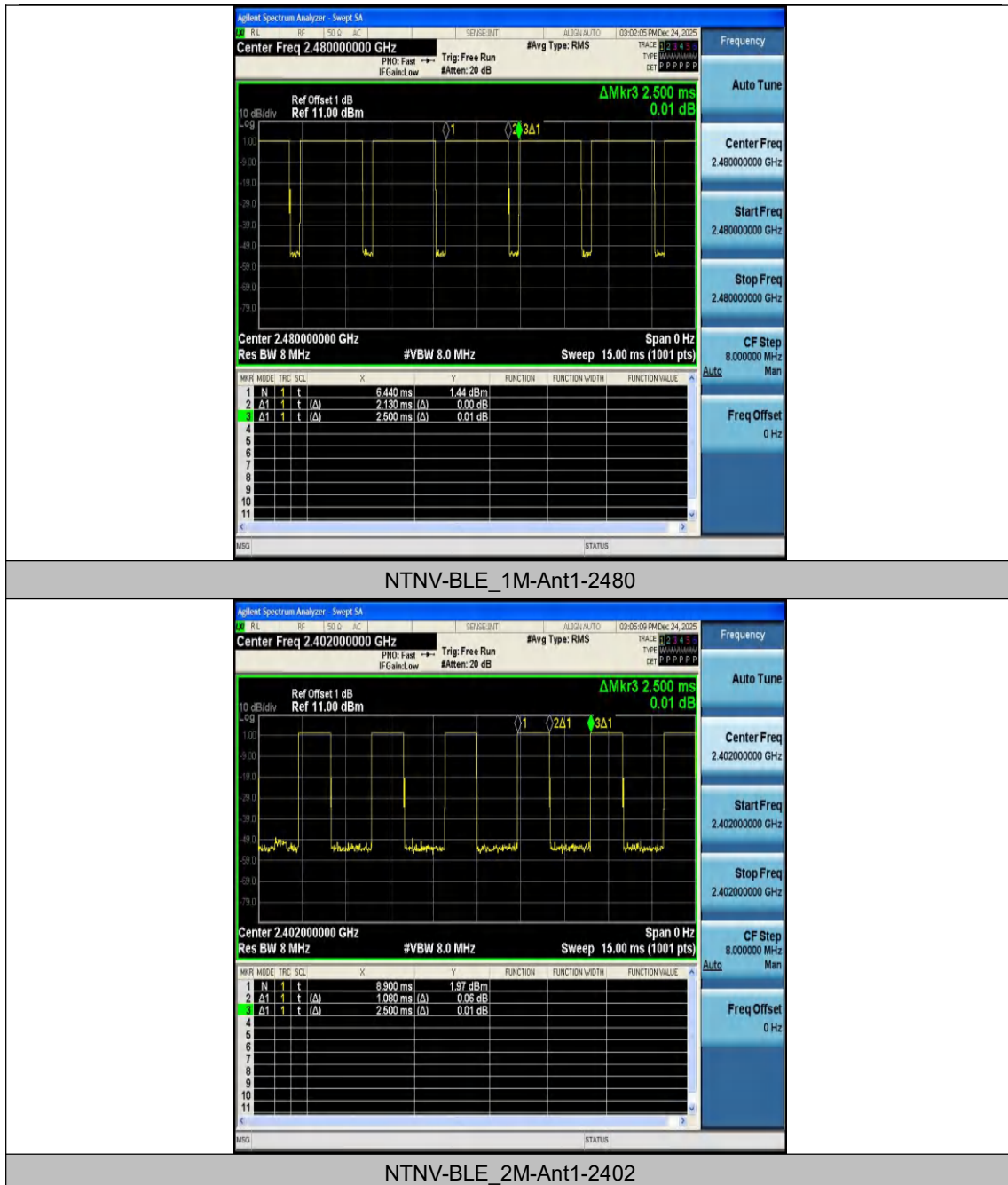
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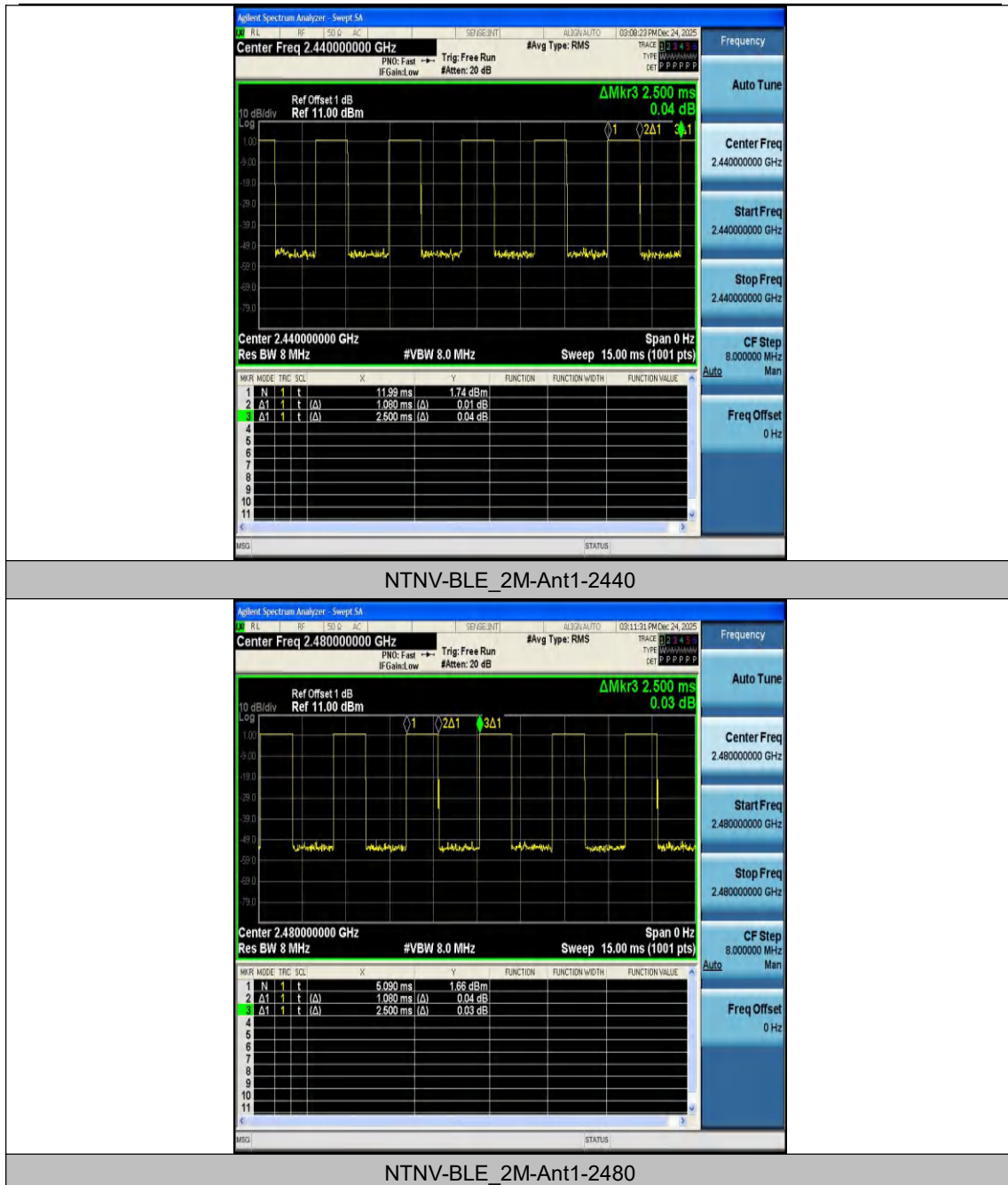


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