

Appendix Test Data

Report No.:	1812C50610212501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-3	Finish Test Date:	2025-12-3
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.7°C	Relative Humidity:	55%
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	0.644	2401.664	2402.308	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.640	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.656	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.224	2401.348	2402.572	0.5	PASS
BLE_2M	Ant1	2440	1.272	2439.324	2440.596	0.5	PASS
BLE_2M	Ant1	2480	1.244	2479.340	2480.584	0.5	PASS

Test Graphs



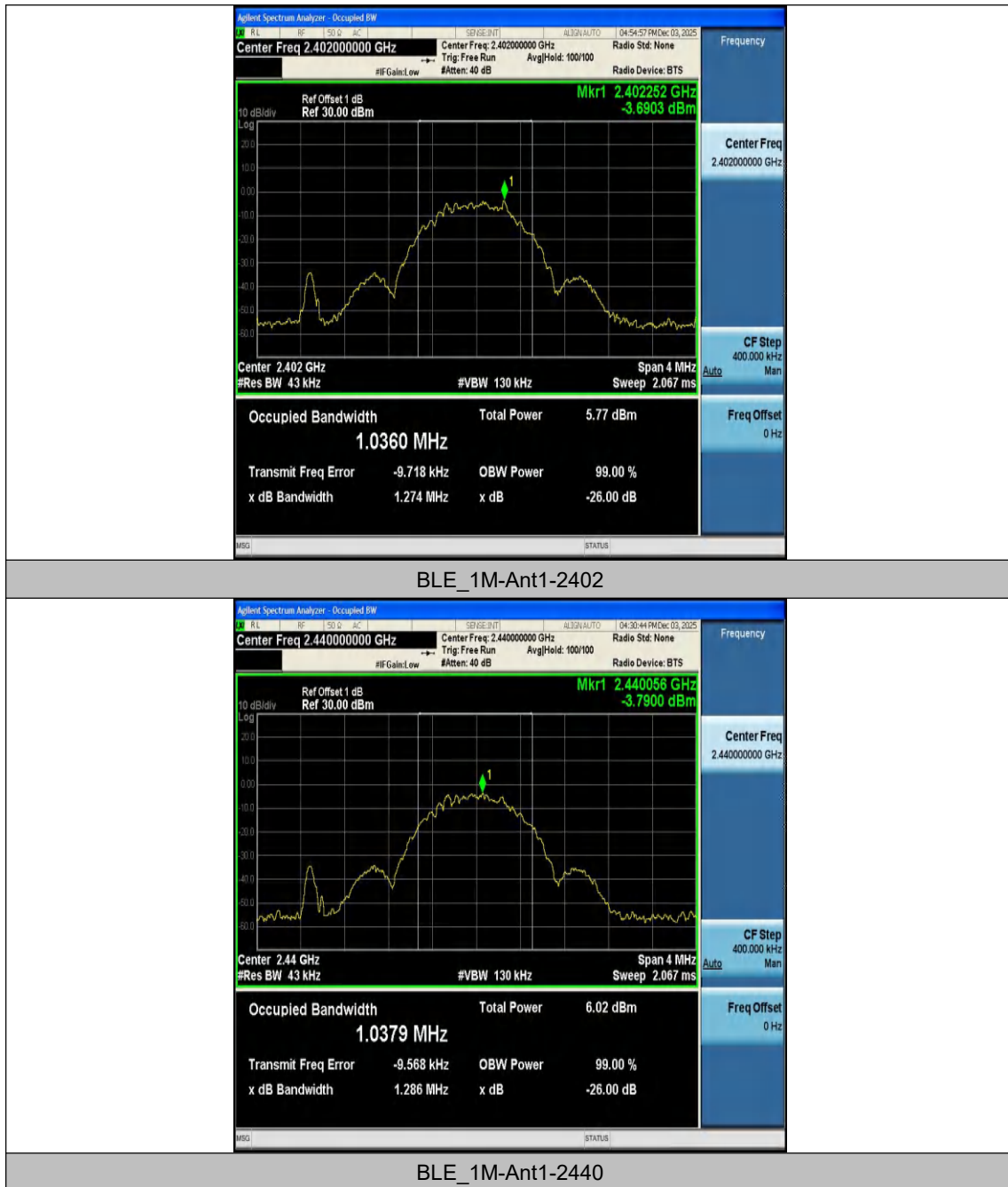




Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0360	2401.4723	2402.5083	---	---
BLE_1M	Ant1	2440	1.0379	2439.4715	2440.5094	---	---
BLE_1M	Ant1	2480	1.0316	2479.4730	2480.5046	---	---
BLE_2M	Ant1	2402	2.0765	2400.9714	2403.0479	---	---
BLE_2M	Ant1	2440	2.0792	2438.9632	2441.0424	---	---
BLE_2M	Ant1	2480	2.0667	2478.9656	2481.0323	---	---

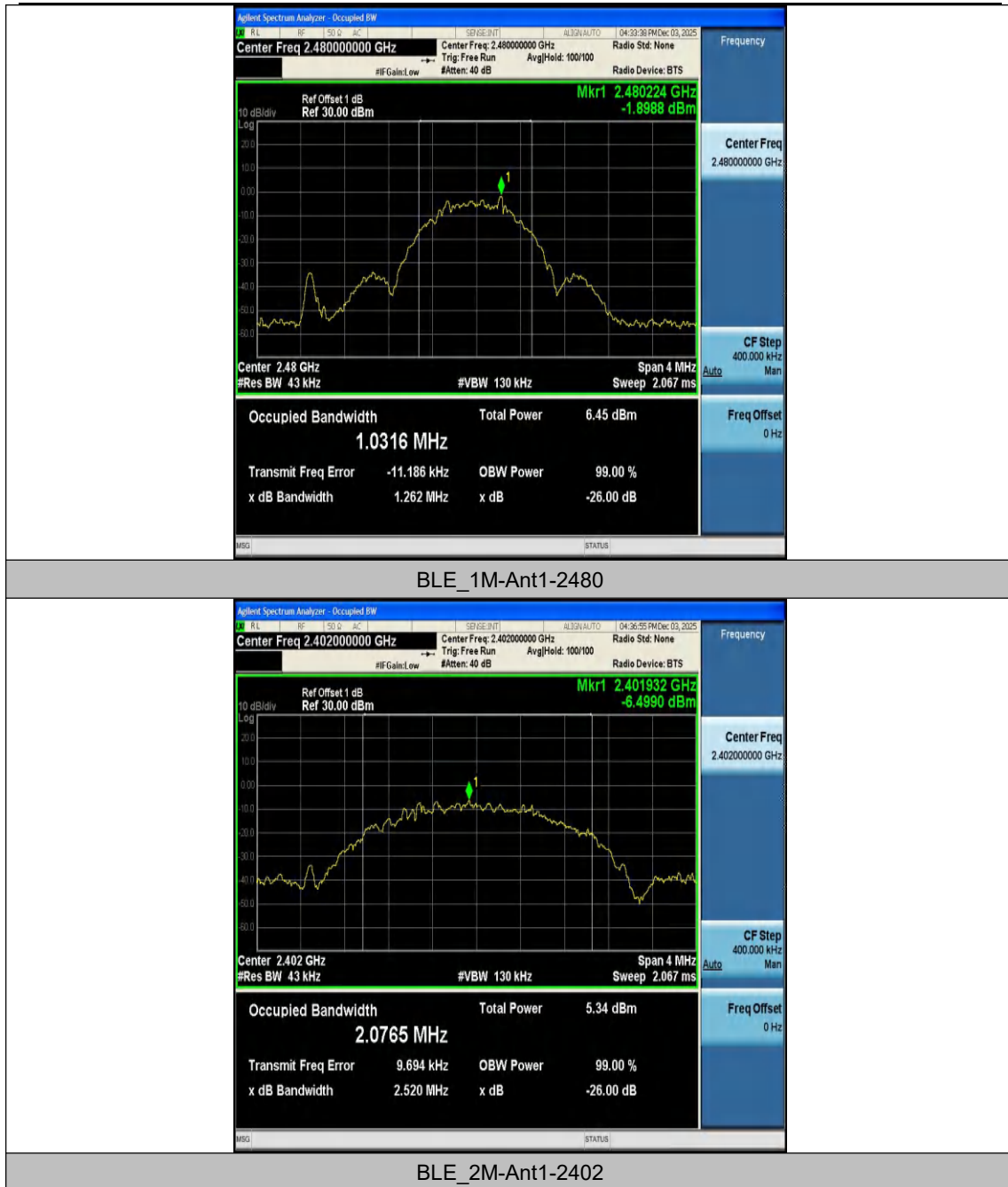
Test Graphs



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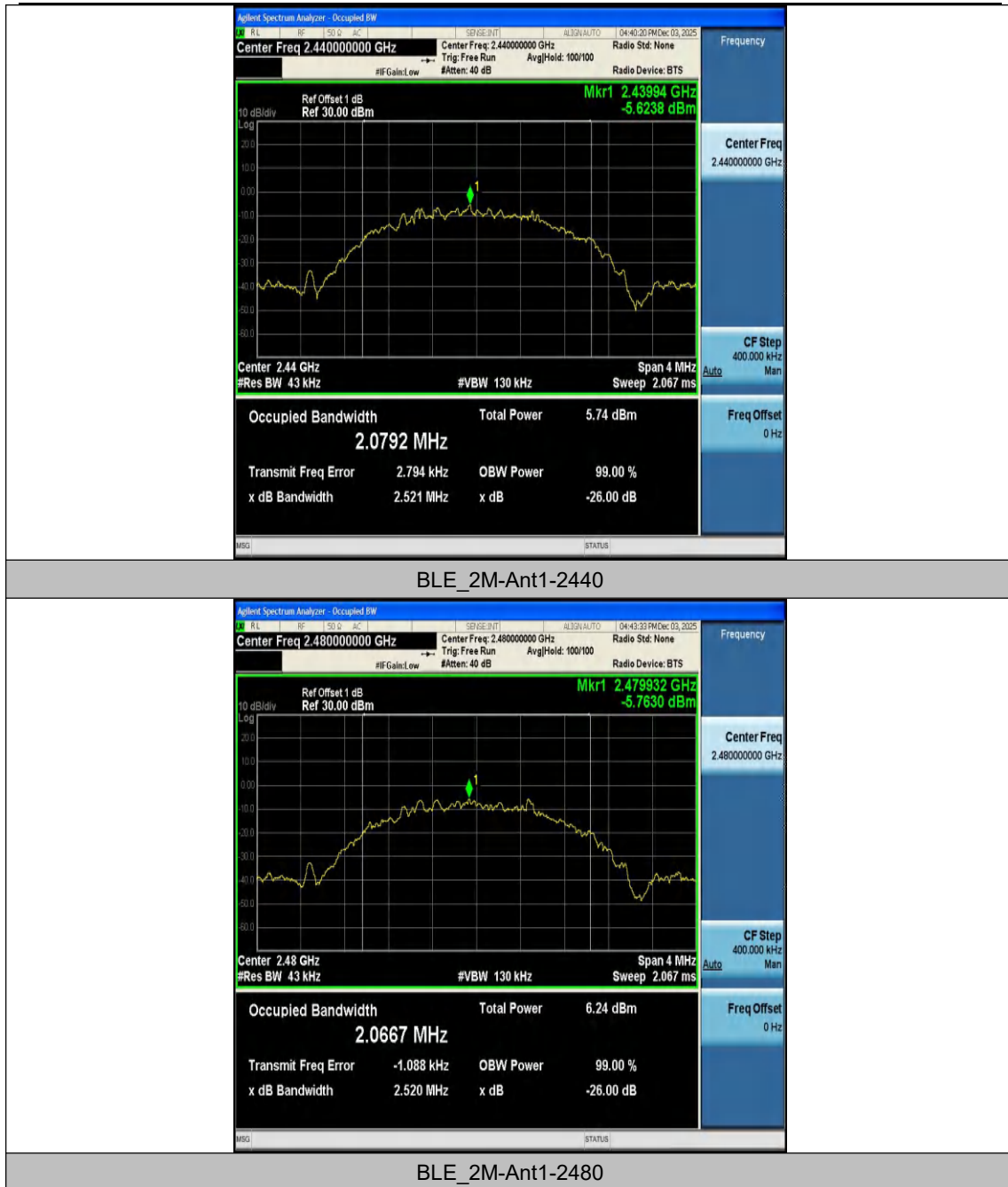
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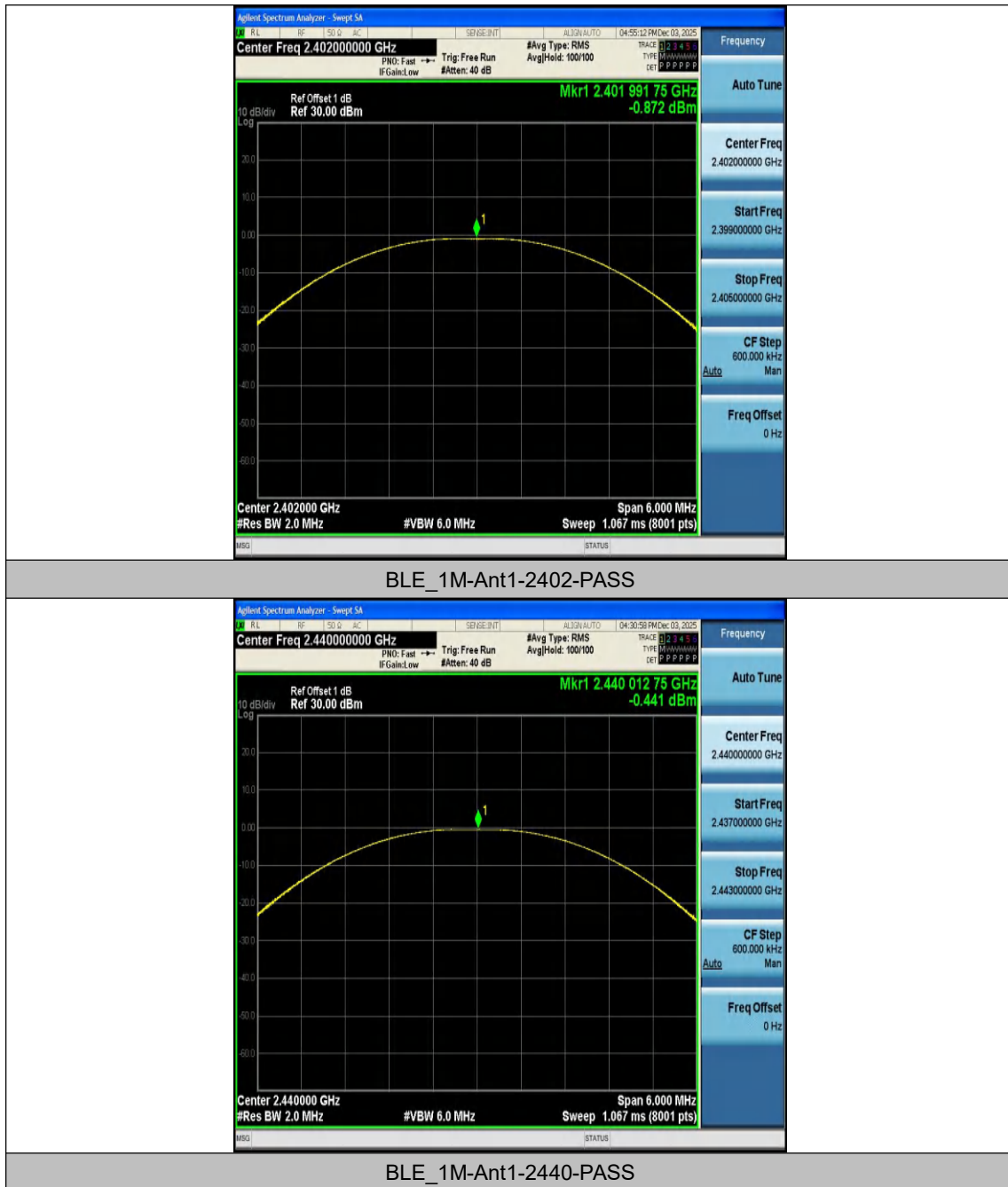
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.87	≤30	PASS
BLE_1M	Ant1	2440	-0.44	≤30	PASS
BLE_1M	Ant1	2480	-0.16	≤30	PASS
BLE_2M	Ant1	2402	-0.51	≤30	PASS
BLE_2M	Ant1	2440	-0.02	≤30	PASS
BLE_2M	Ant1	2480	0.22	≤30	PASS

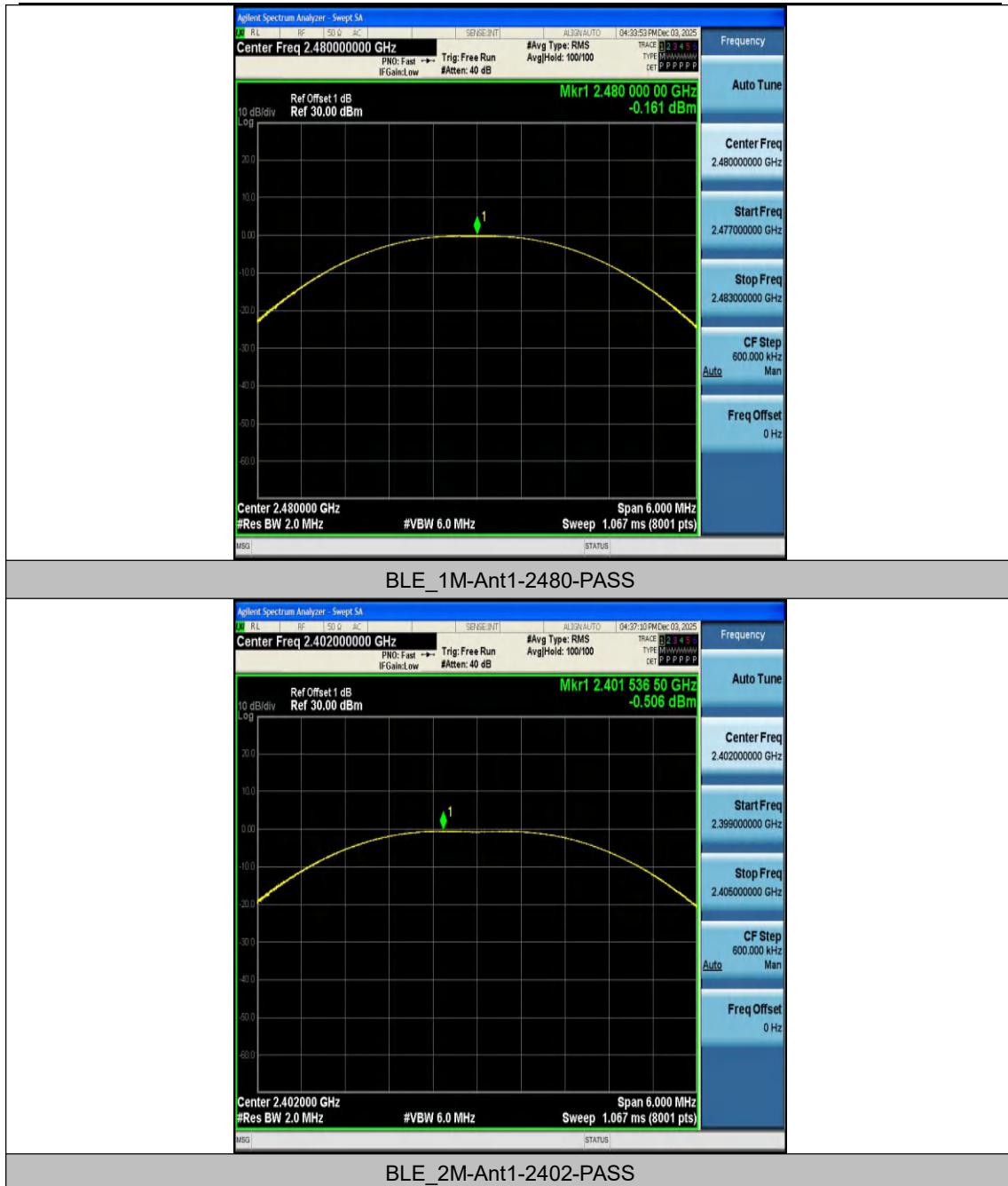
Test Graphs Peak



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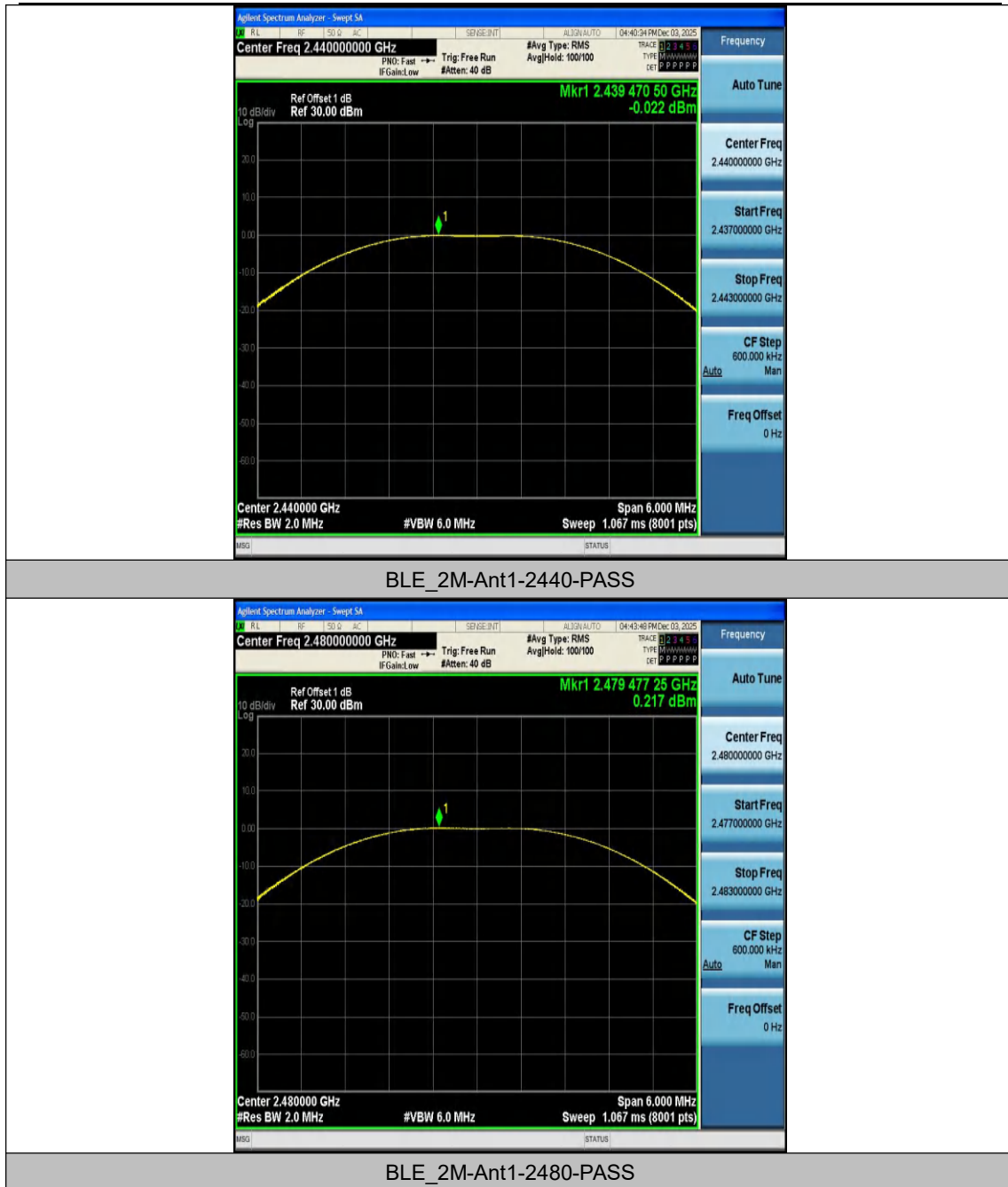
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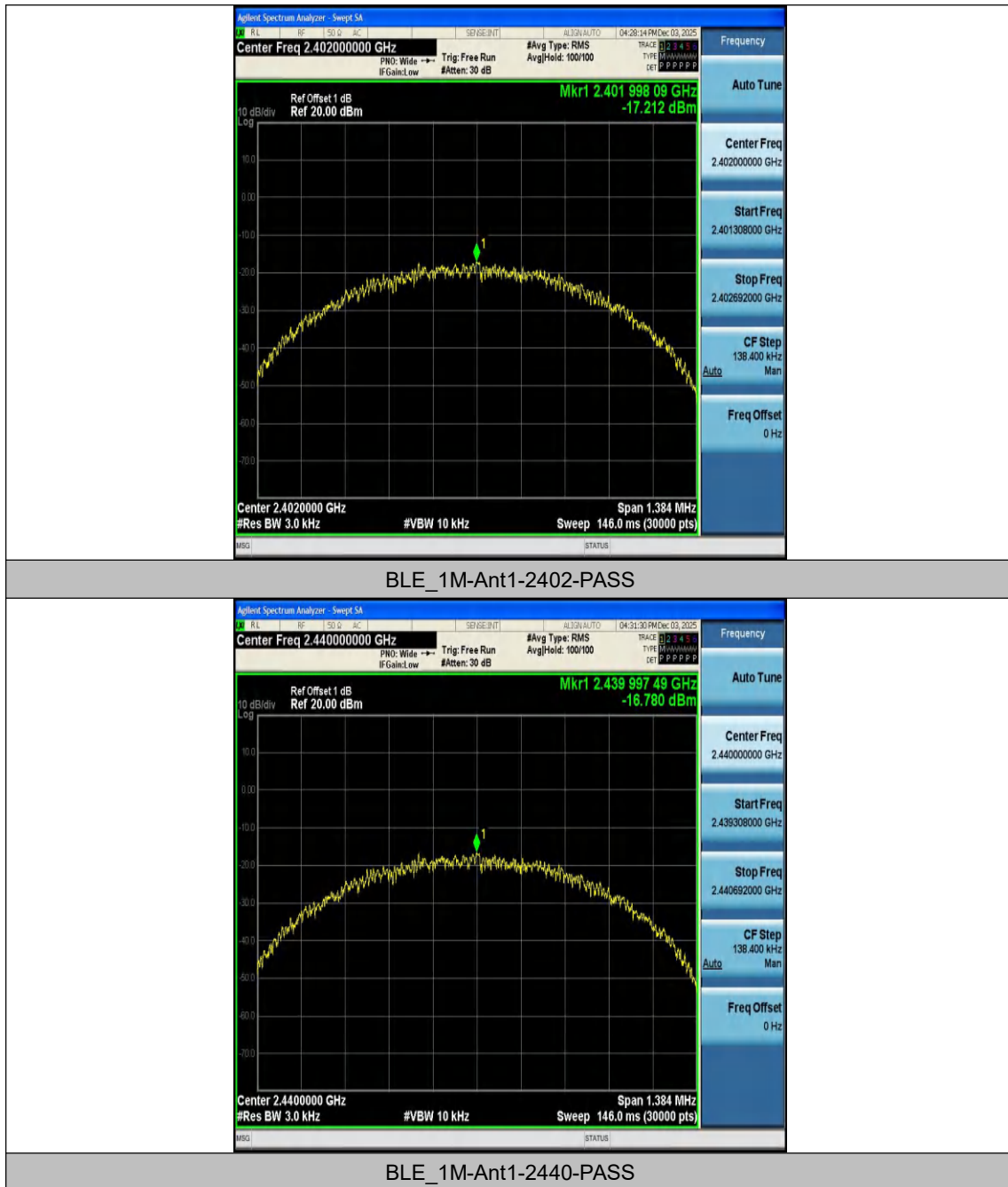
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.21	≤8.00	PASS
BLE_1M	Ant1	2440	-16.78	≤8.00	PASS
BLE_1M	Ant1	2480	-16.47	≤8.00	PASS
BLE_2M	Ant1	2402	-20.22	≤8.00	PASS
BLE_2M	Ant1	2440	-19.76	≤8.00	PASS
BLE_2M	Ant1	2480	-19.49	≤8.00	PASS

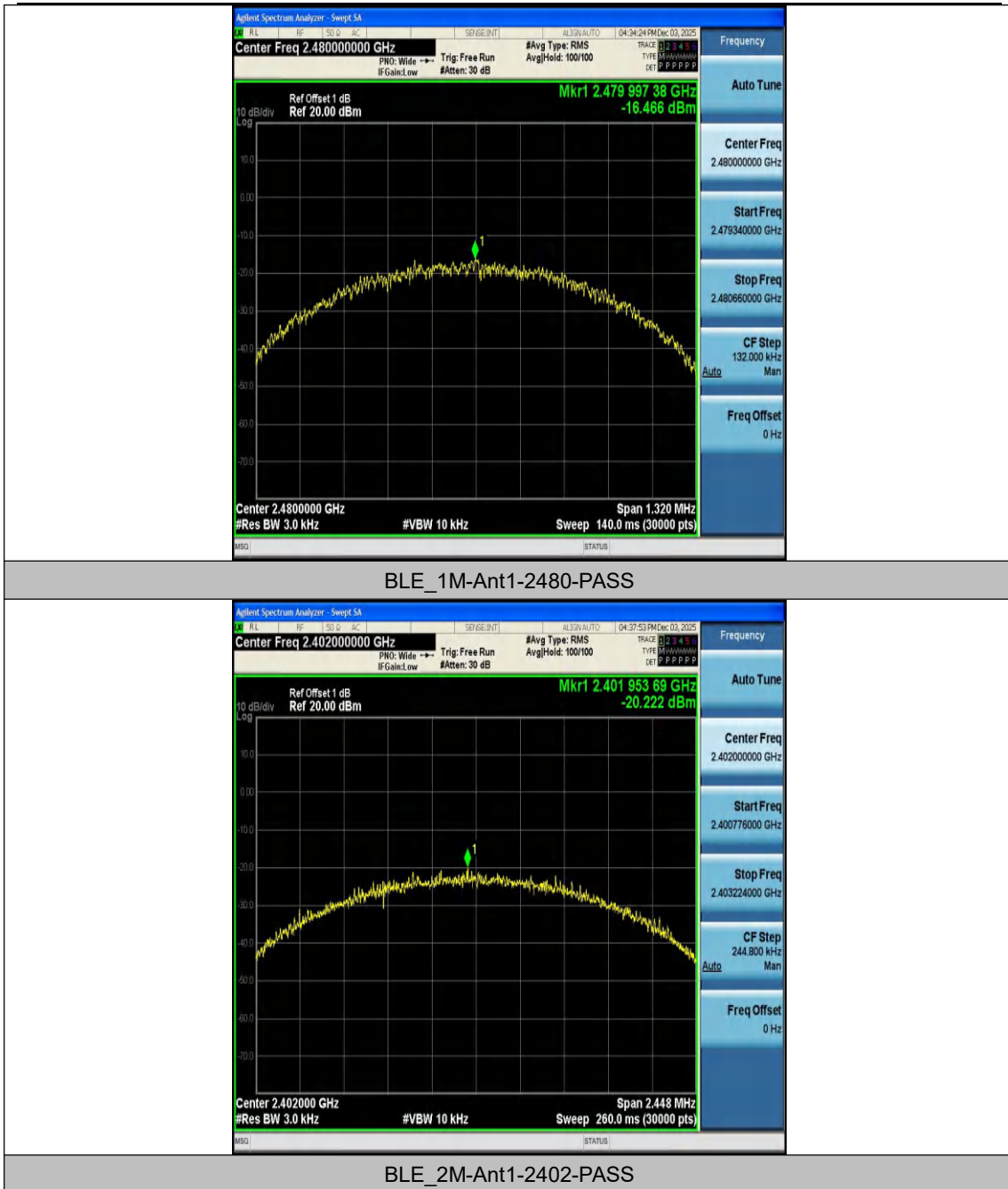
Test Graphs



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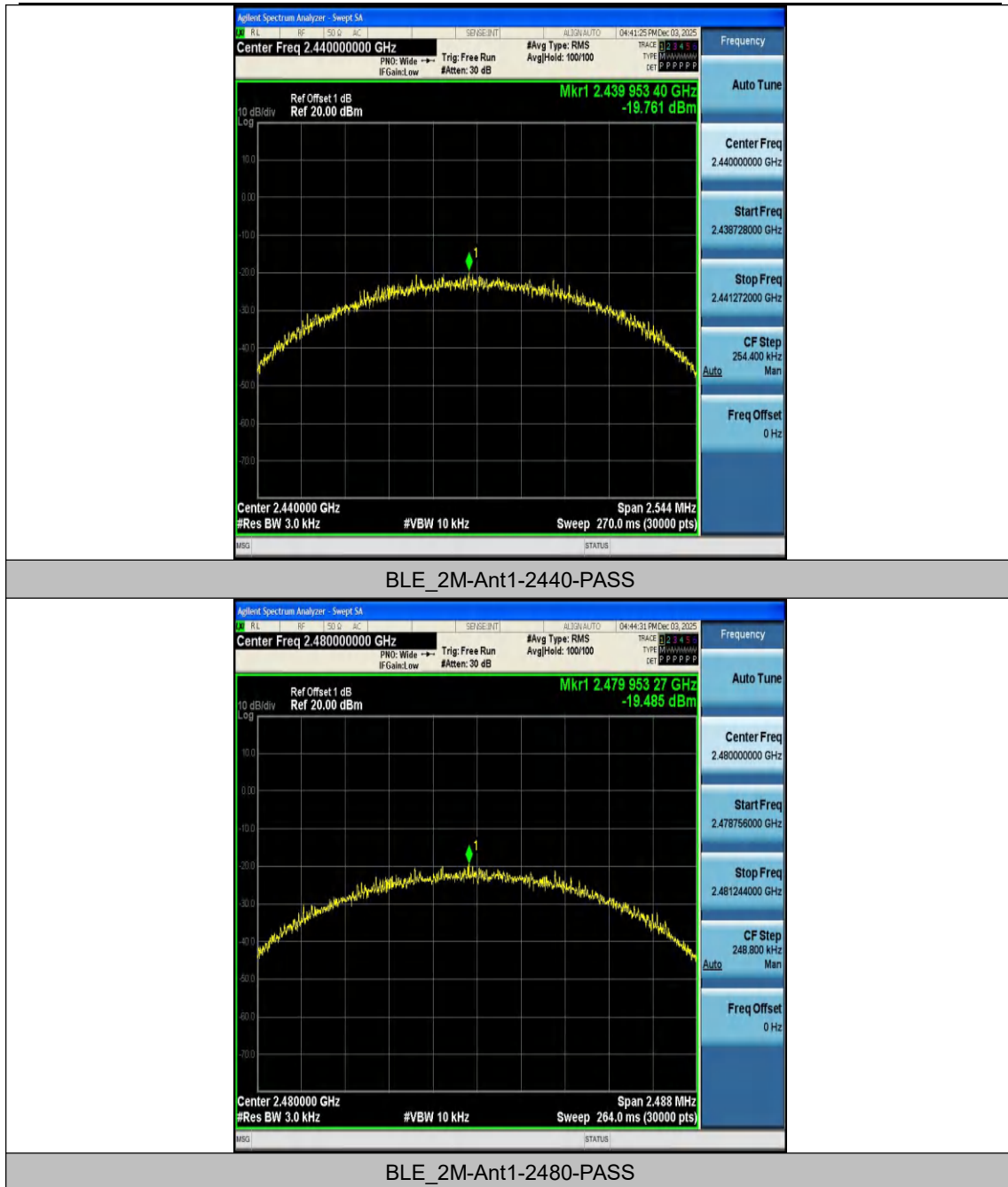
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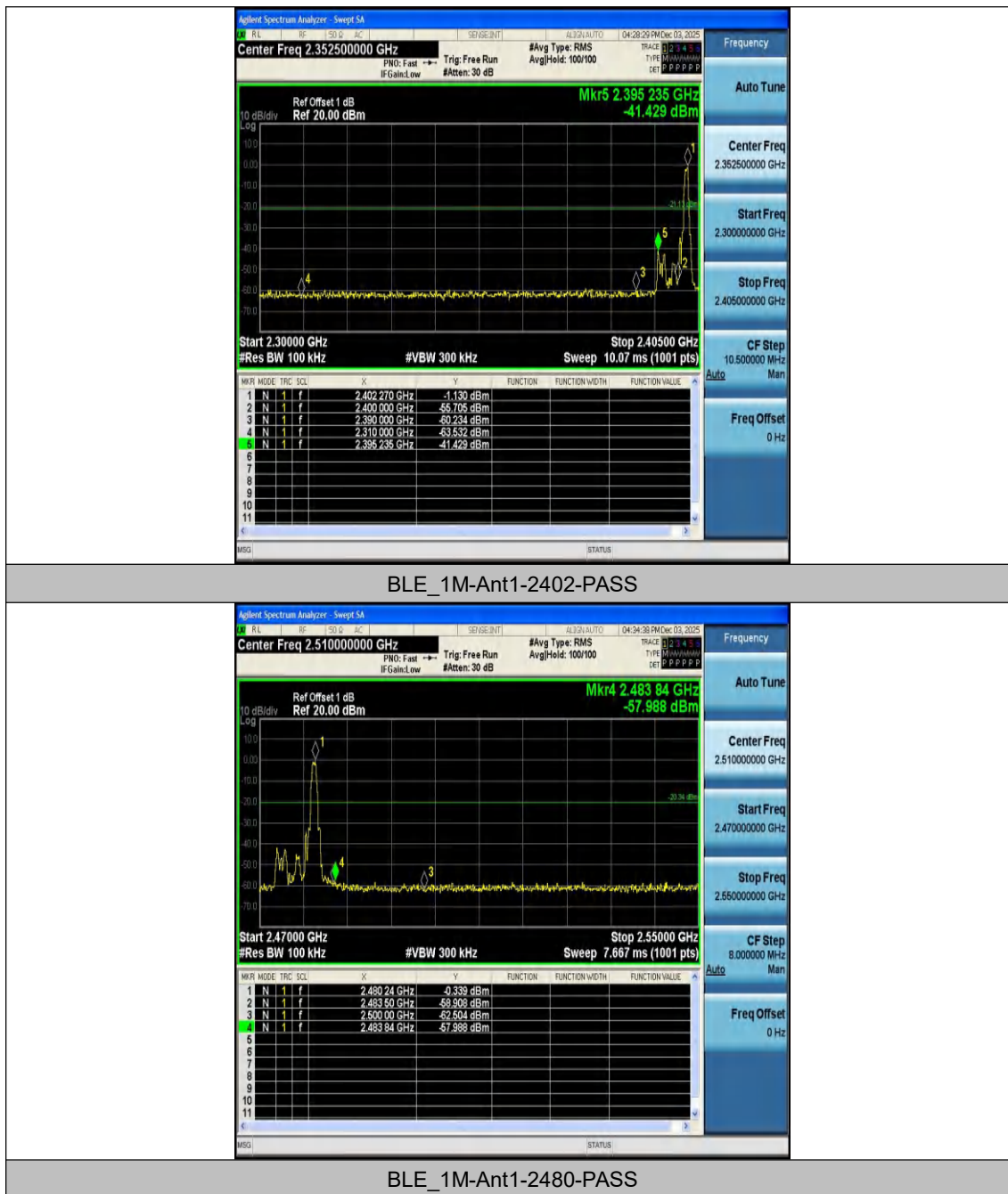
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.13	-41.43	≤-21.13	PASS
BLE_1M	Ant1	High	2480	-0.34	-57.99	≤-20.34	PASS
BLE_2M	Ant1	Low	2402	-2.59	-37.57	≤-22.59	PASS
BLE_2M	Ant1	High	2480	-1.19	-57.92	≤-21.19	PASS

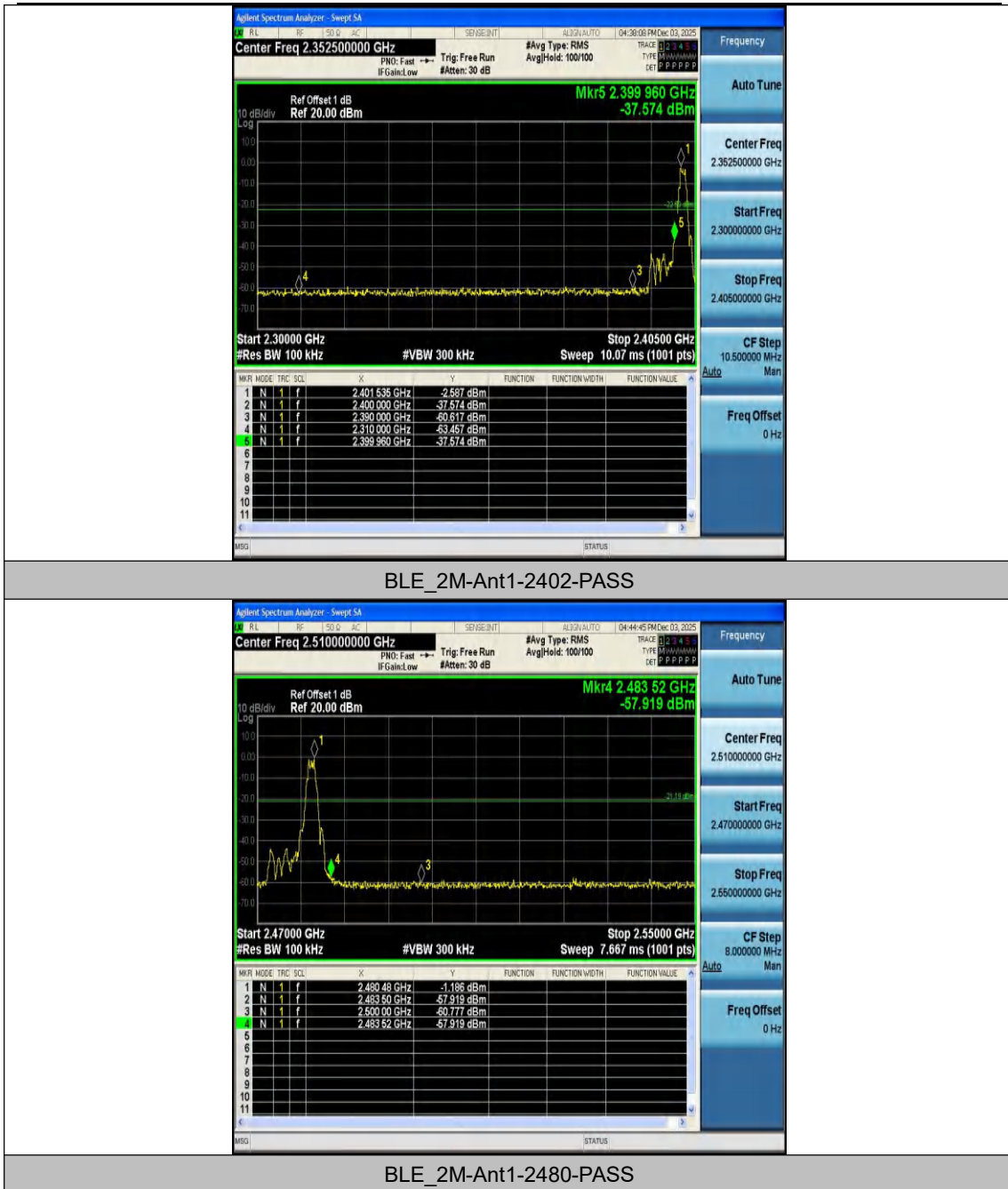
Test Graphs



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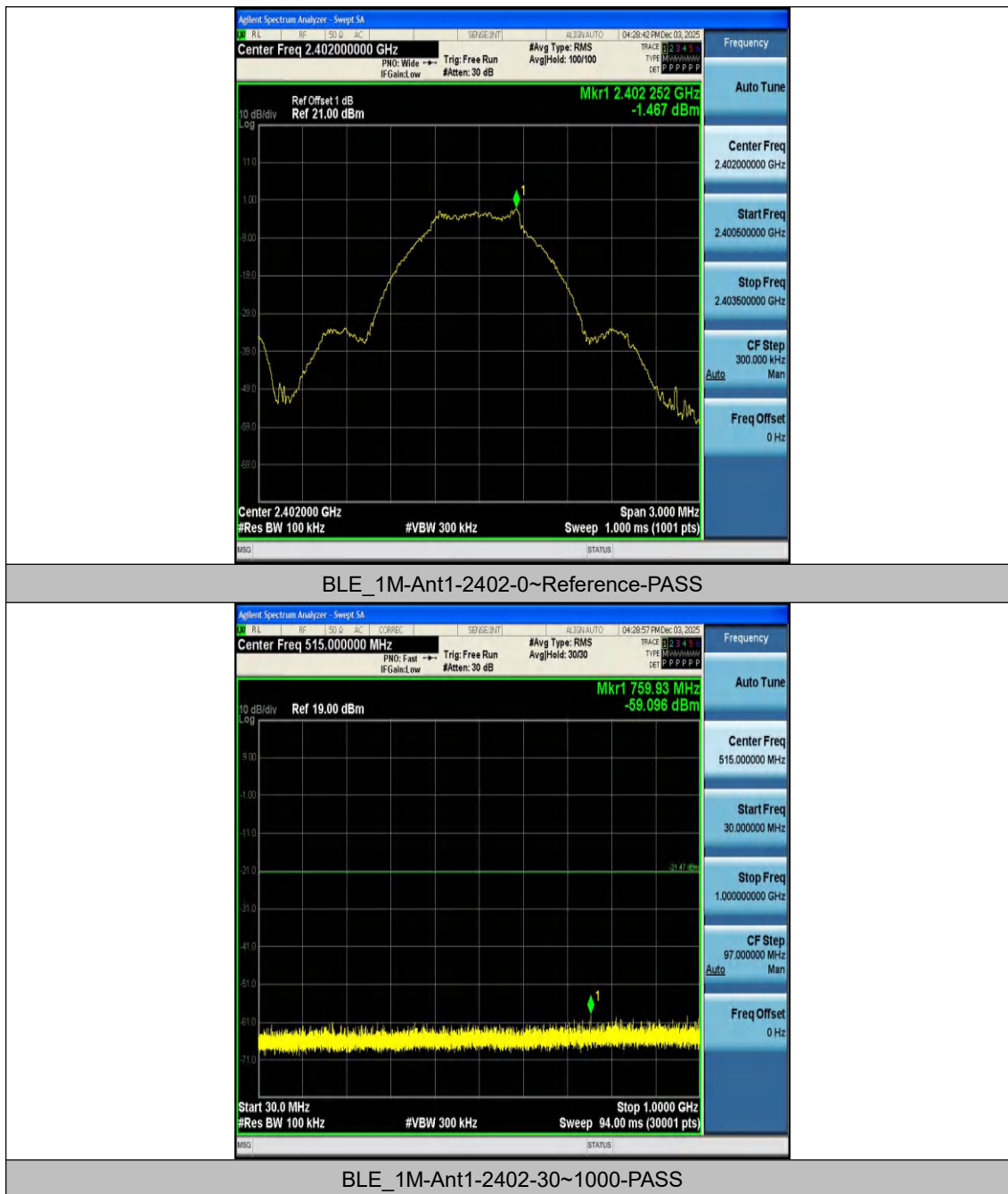
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.47	-1.47	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.47	-59.1	≤-21.47	PASS
BLE_1M	Ant1	2402	1000~26500	-1.47	-45.75	≤-21.47	PASS
BLE_1M	Ant1	2440	0~Reference	-0.64	-0.64	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.64	-50.8	≤-20.64	PASS
BLE_1M	Ant1	2440	1000~26500	-0.64	-45.75	≤-20.64	PASS
BLE_1M	Ant1	2480	0~Reference	-0.50	-0.50	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.50	-59.68	≤-20.5	PASS
BLE_1M	Ant1	2480	1000~26500	-0.50	-46.31	≤-20.5	PASS
BLE_2M	Ant1	2402	0~Reference	-1.79	-1.79	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.79	-59.83	≤-21.79	PASS
BLE_2M	Ant1	2402	1000~26500	-1.79	-45.94	≤-21.79	PASS
BLE_2M	Ant1	2440	0~Reference	-1.37	-1.37	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.37	-52.27	≤-21.37	PASS
BLE_2M	Ant1	2440	1000~26500	-1.37	-45.35	≤-21.37	PASS
BLE_2M	Ant1	2480	0~Reference	-1.26	-1.26	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.26	-48.53	≤-21.26	PASS
BLE_2M	Ant1	2480	1000~26500	-1.26	-45.97	≤-21.26	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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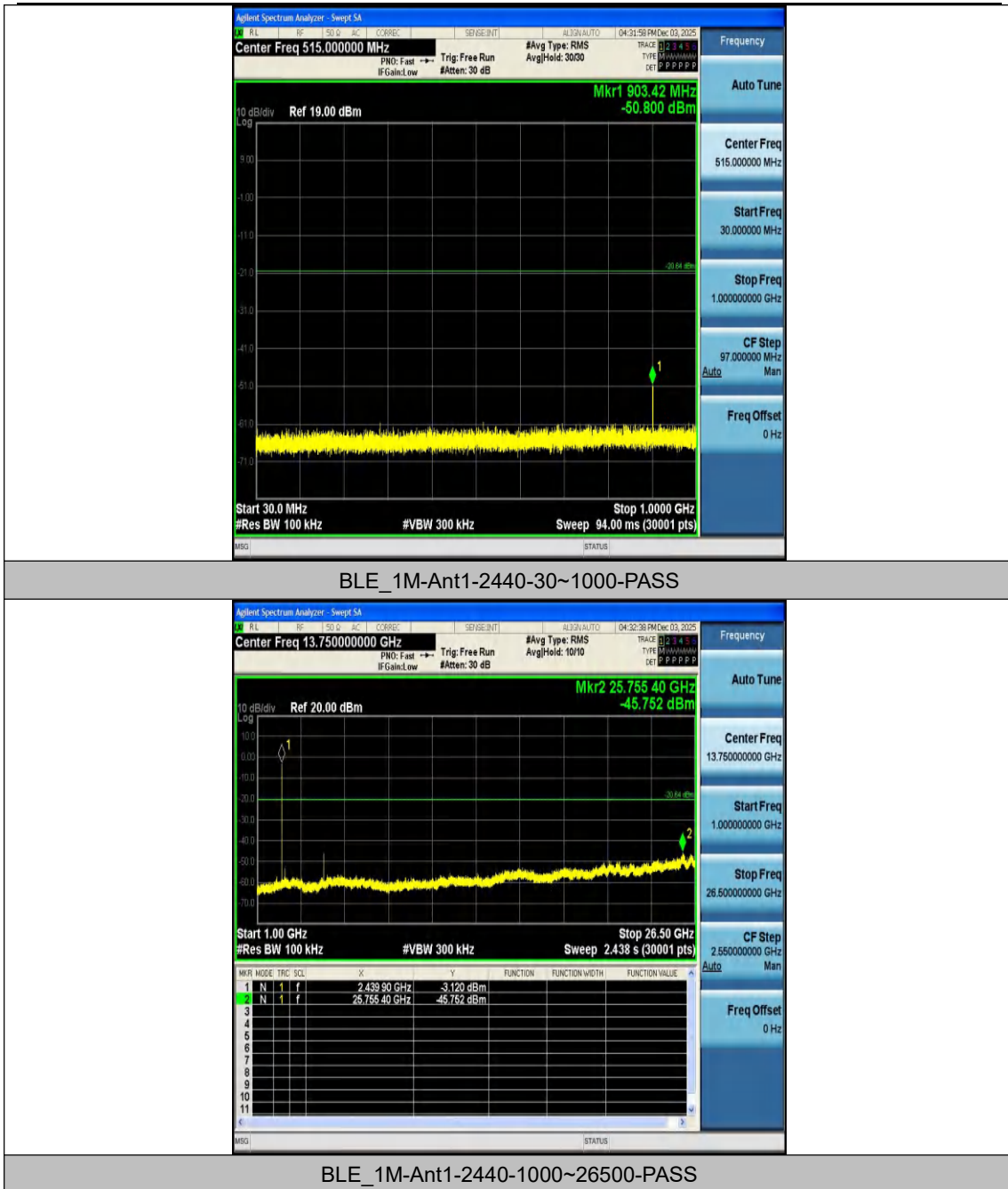
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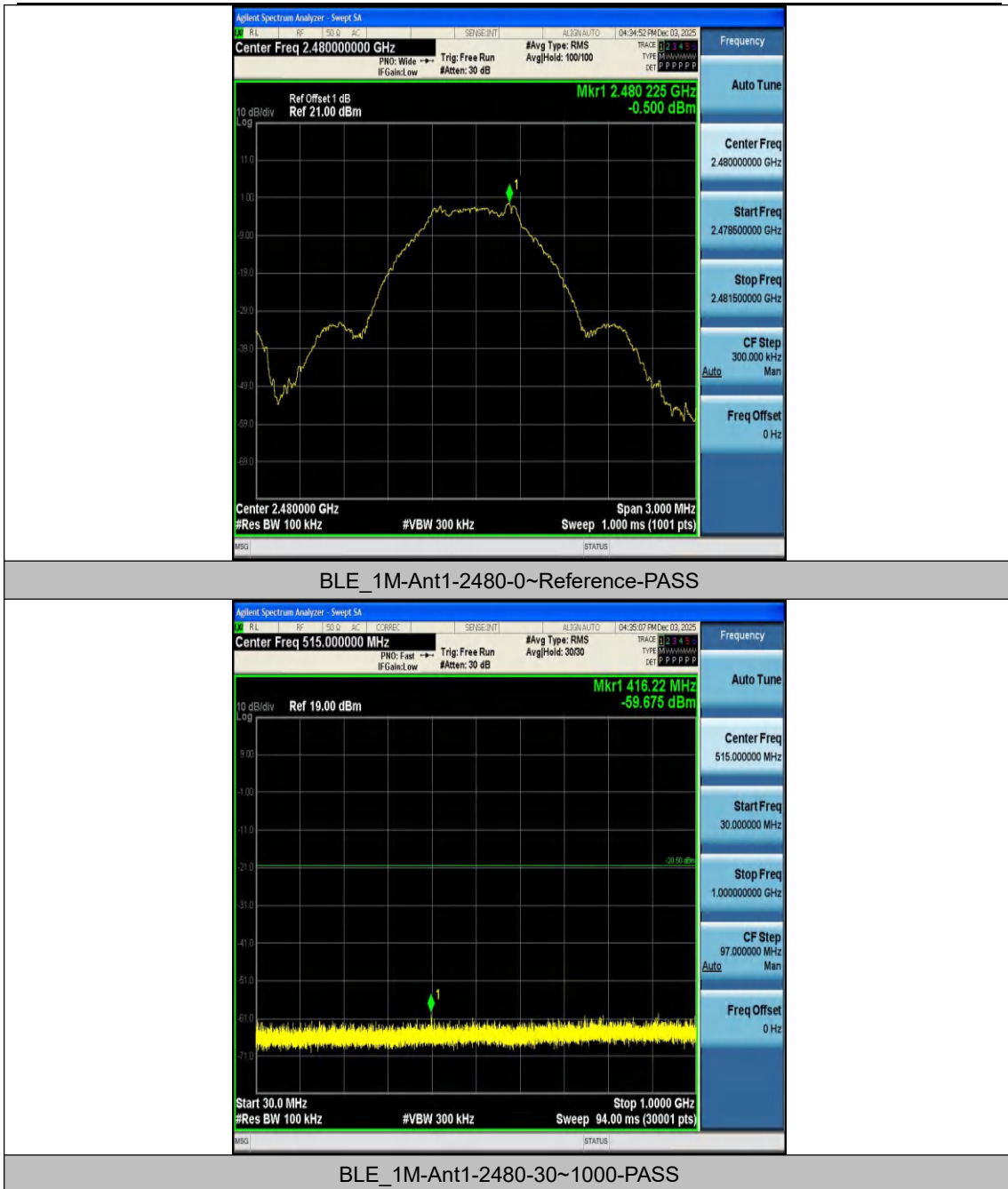


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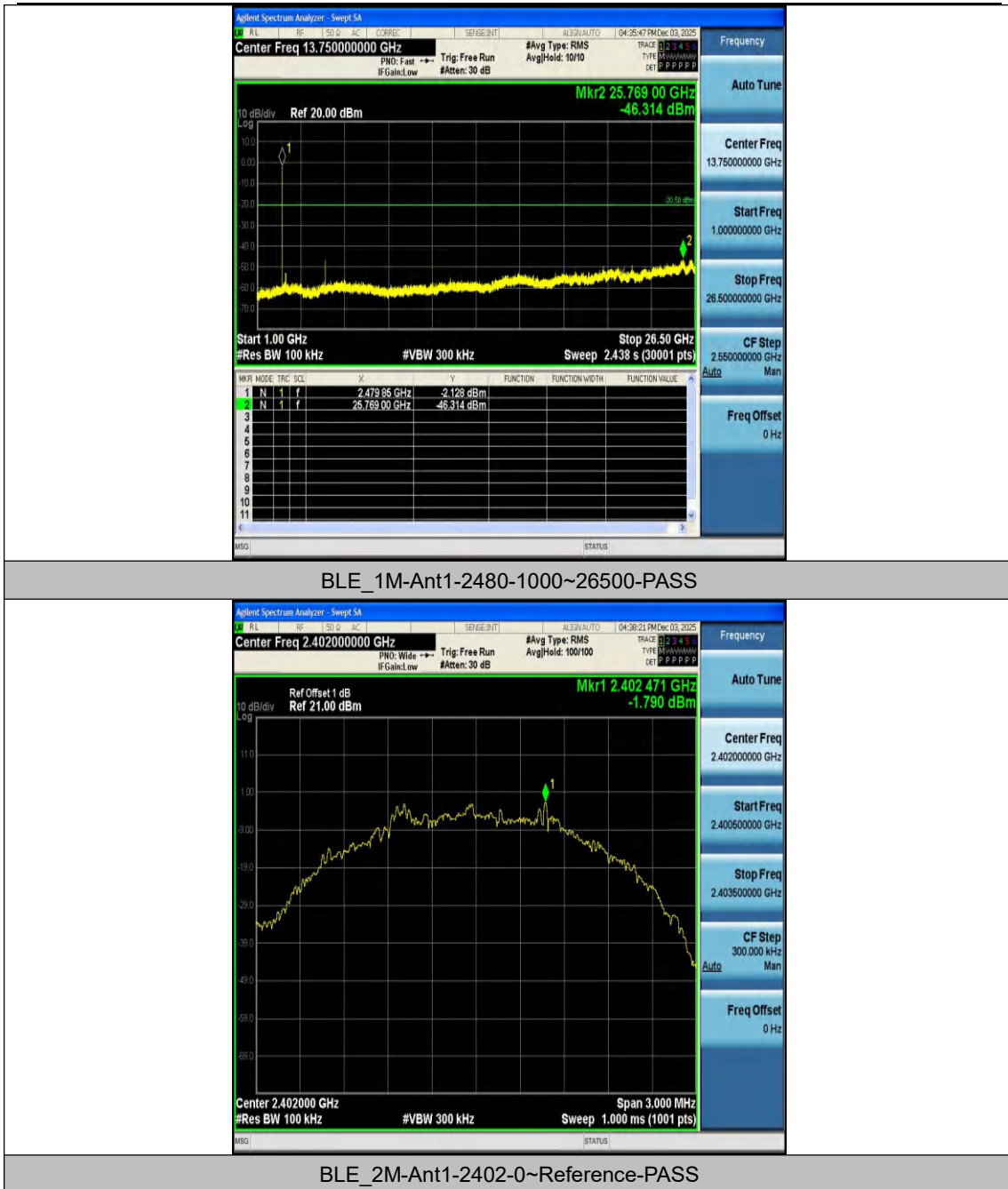




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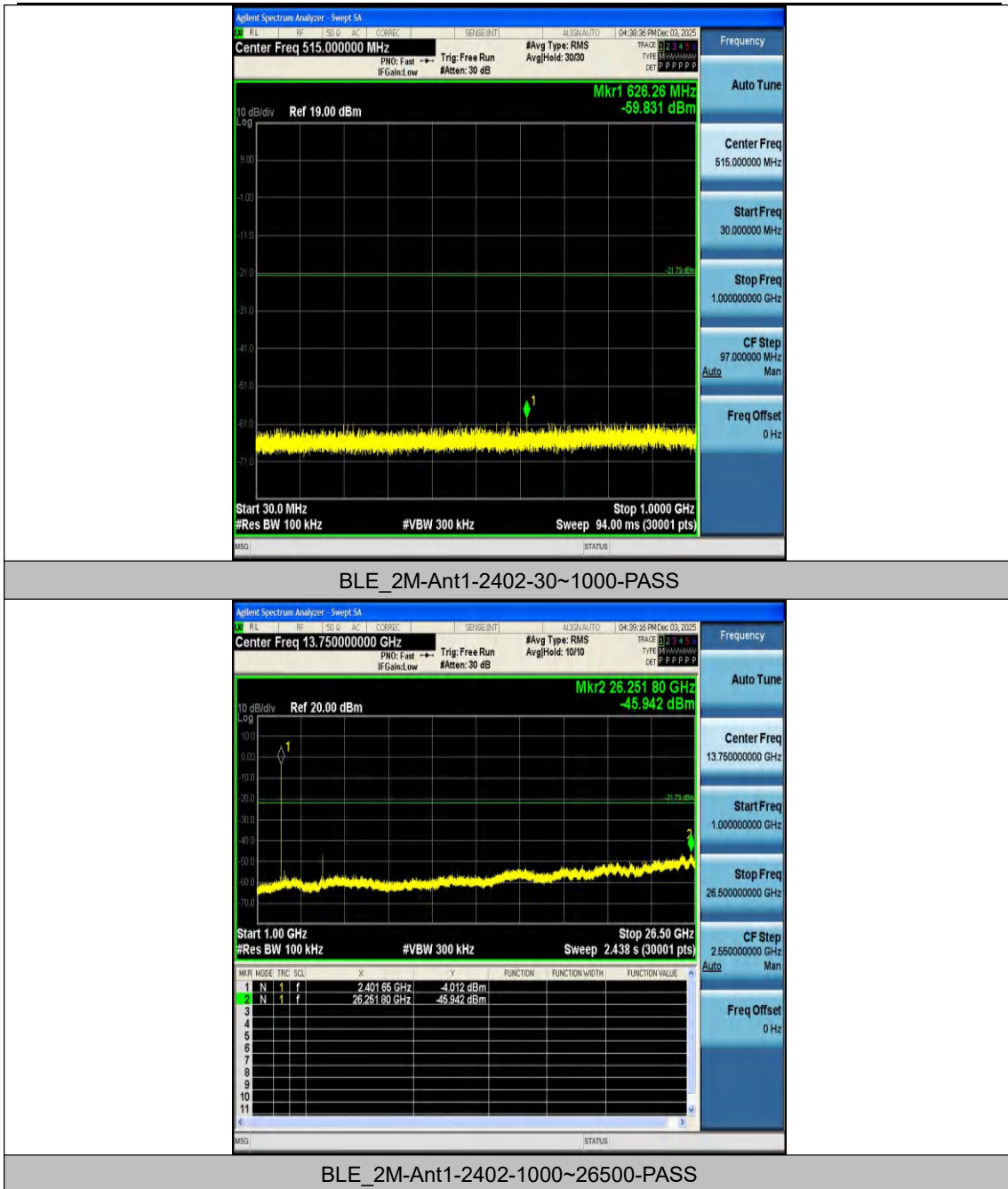
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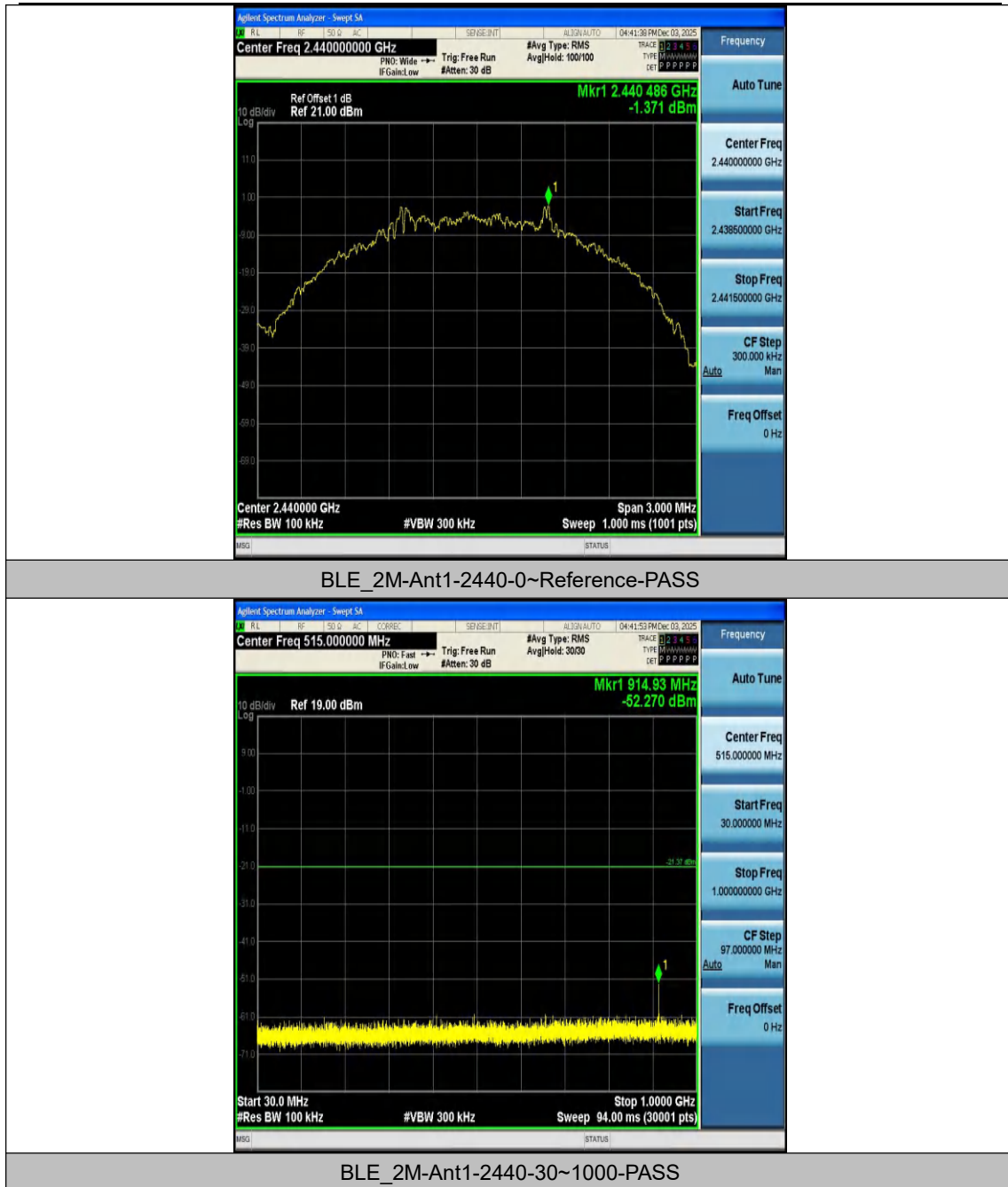
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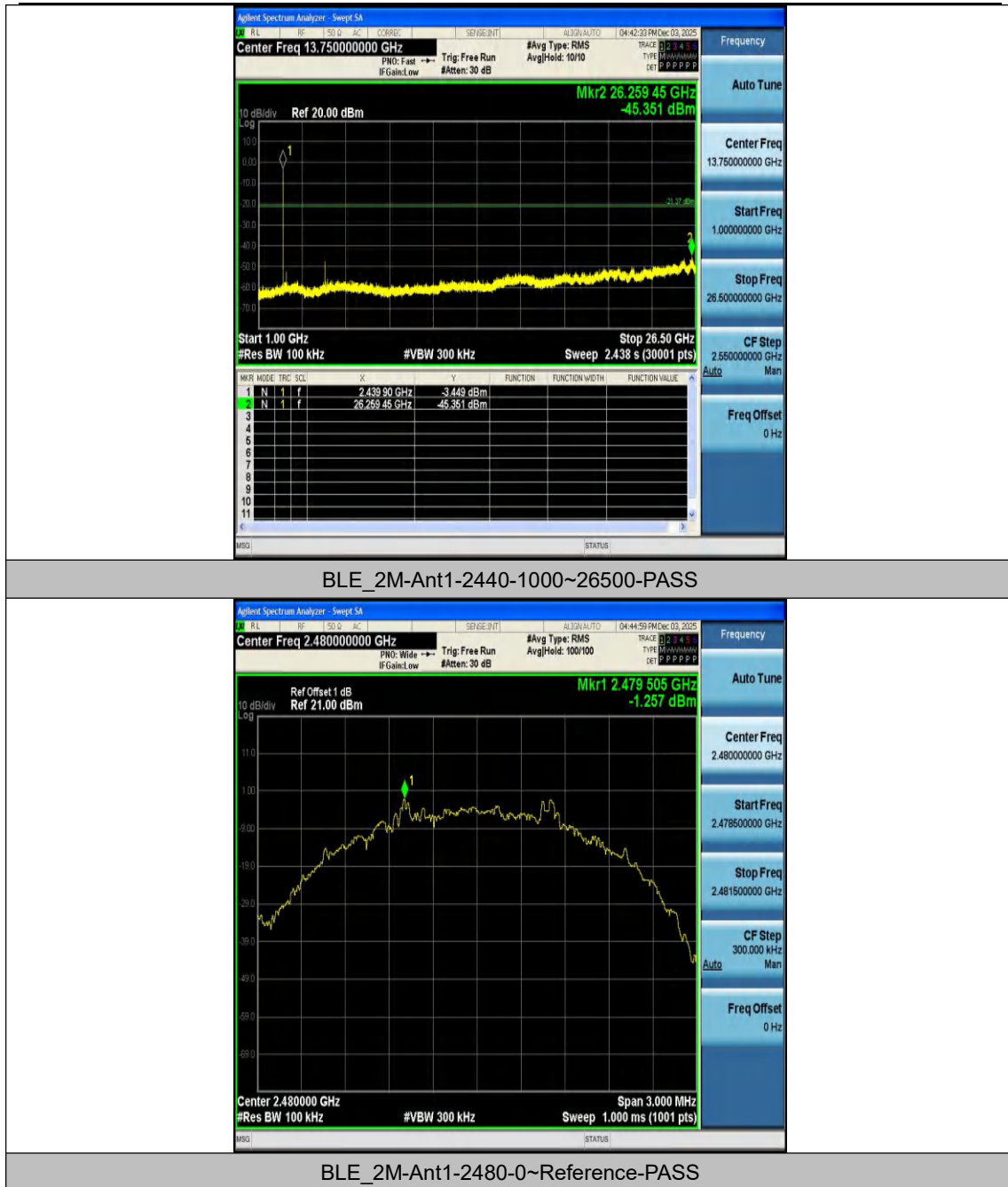
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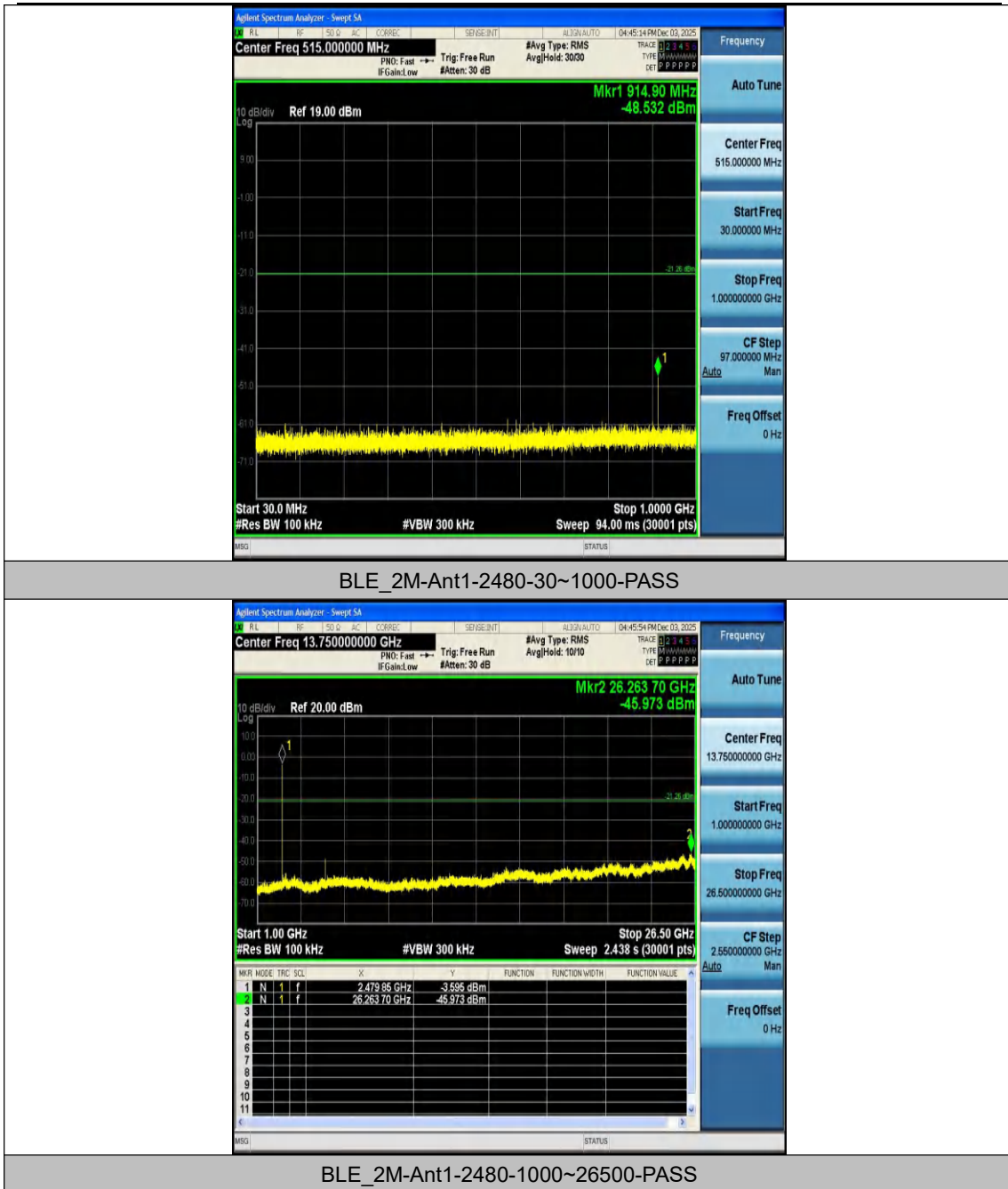
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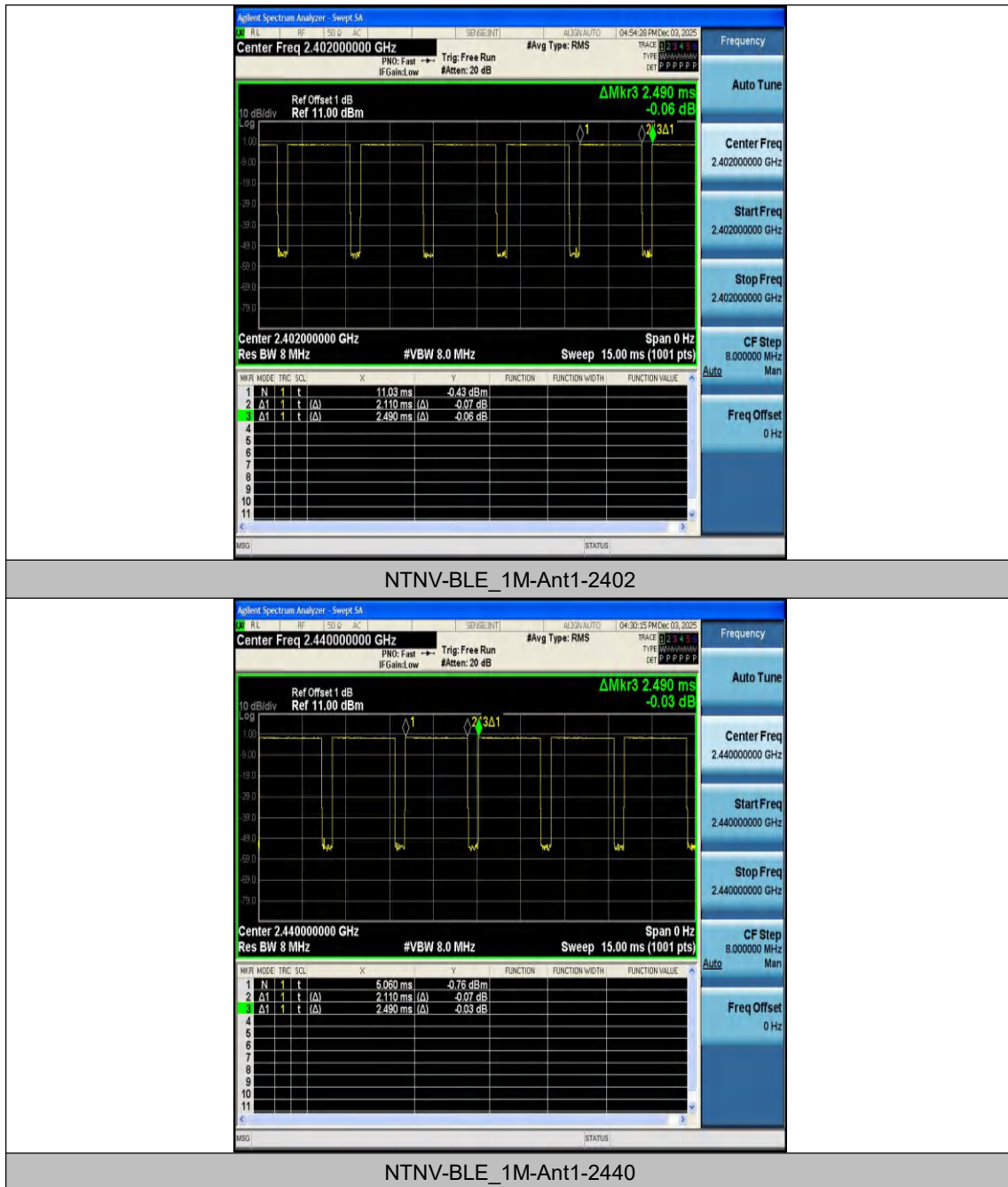
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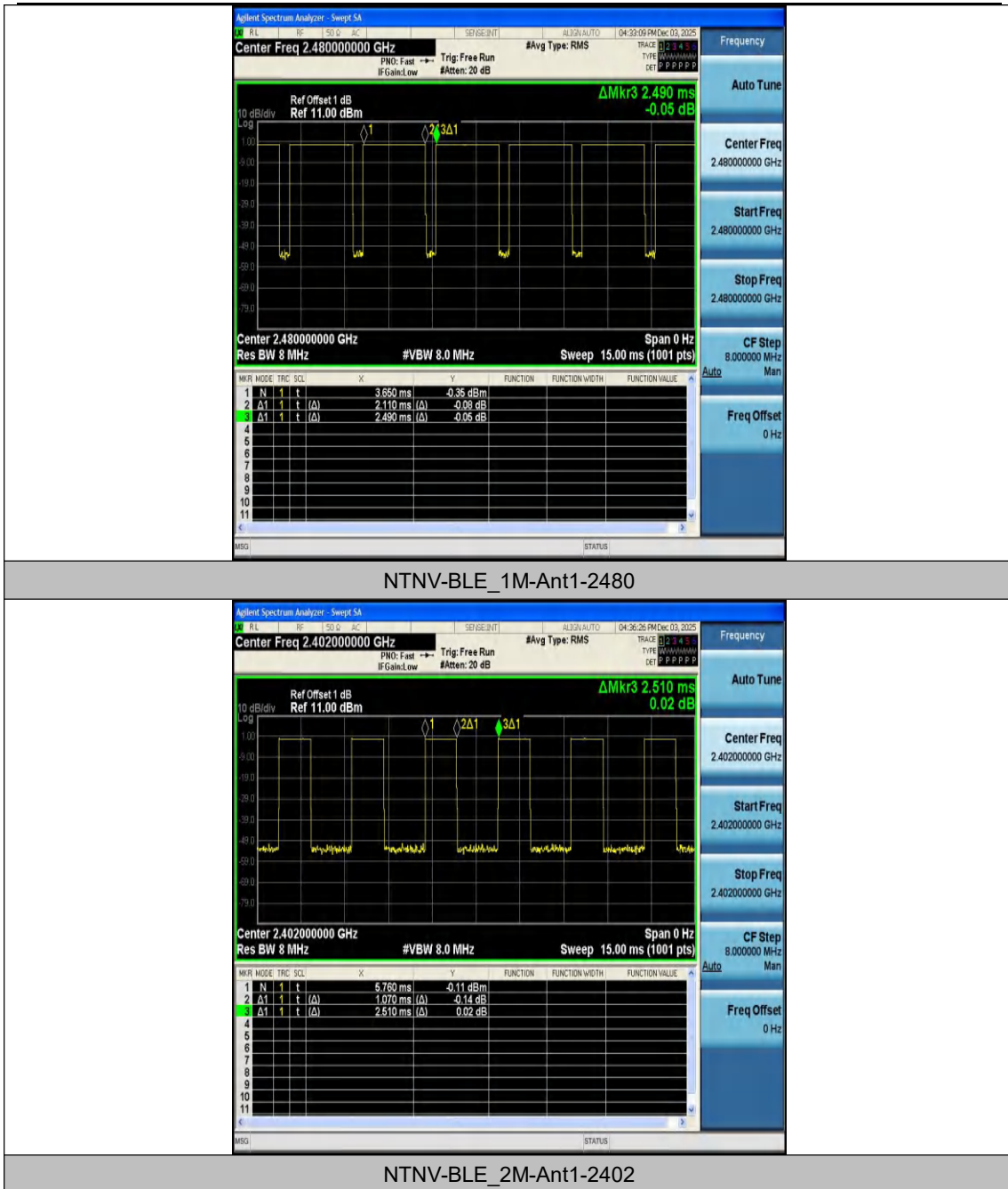
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.11	2.49	84.74	0.72
BLE_1M	Ant1	2440	2.11	2.49	84.74	0.72
BLE_1M	Ant1	2480	2.11	2.49	84.74	0.72
BLE_2M	Ant1	2402	1.07	2.51	42.63	3.70
BLE_2M	Ant1	2440	1.07	2.49	42.97	3.67
BLE_2M	Ant1	2480	1.07	2.49	42.97	3.67

Test Graphs

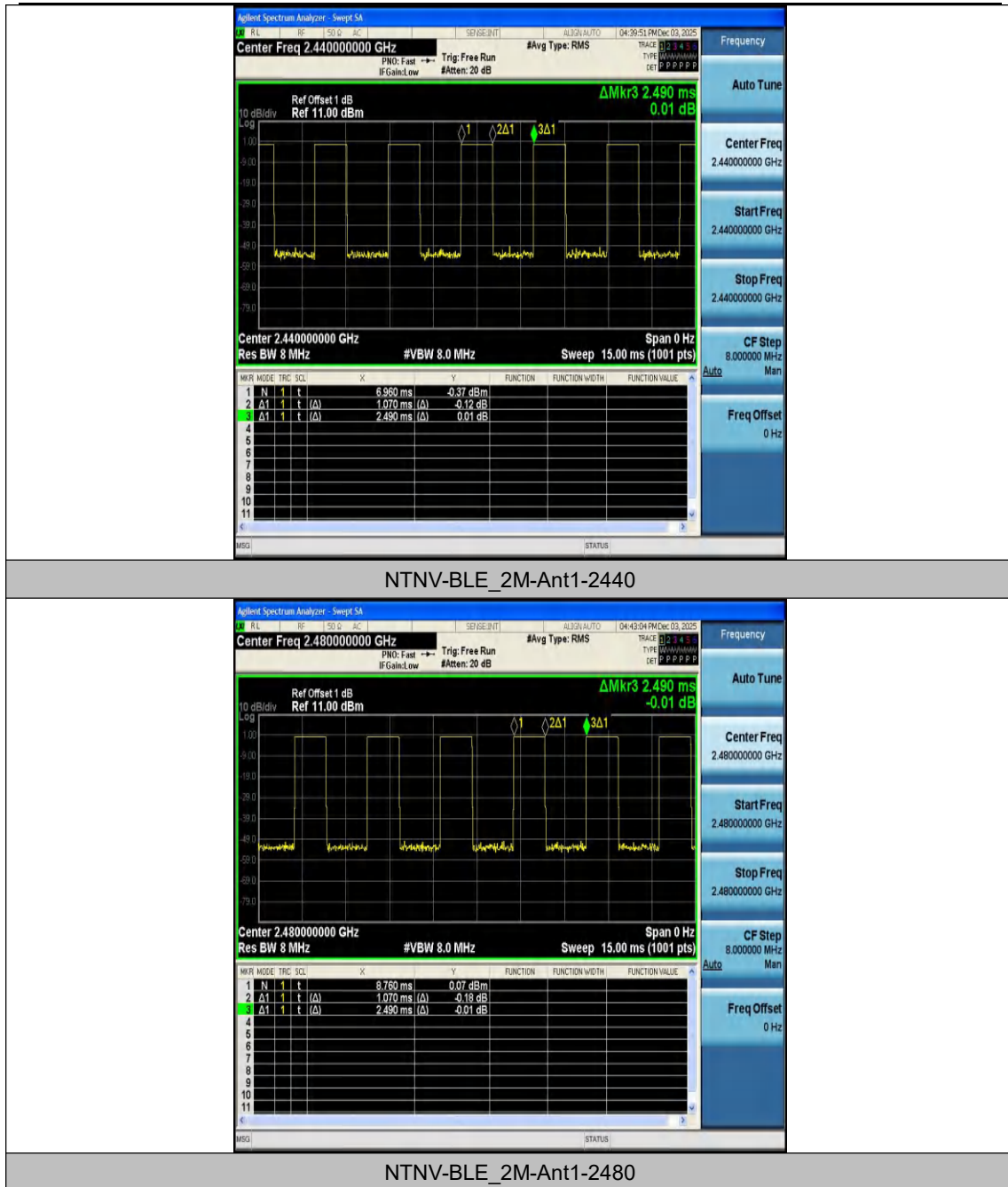




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