

Appendix Test Data

Report No.:	1812C50634012502-01	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		

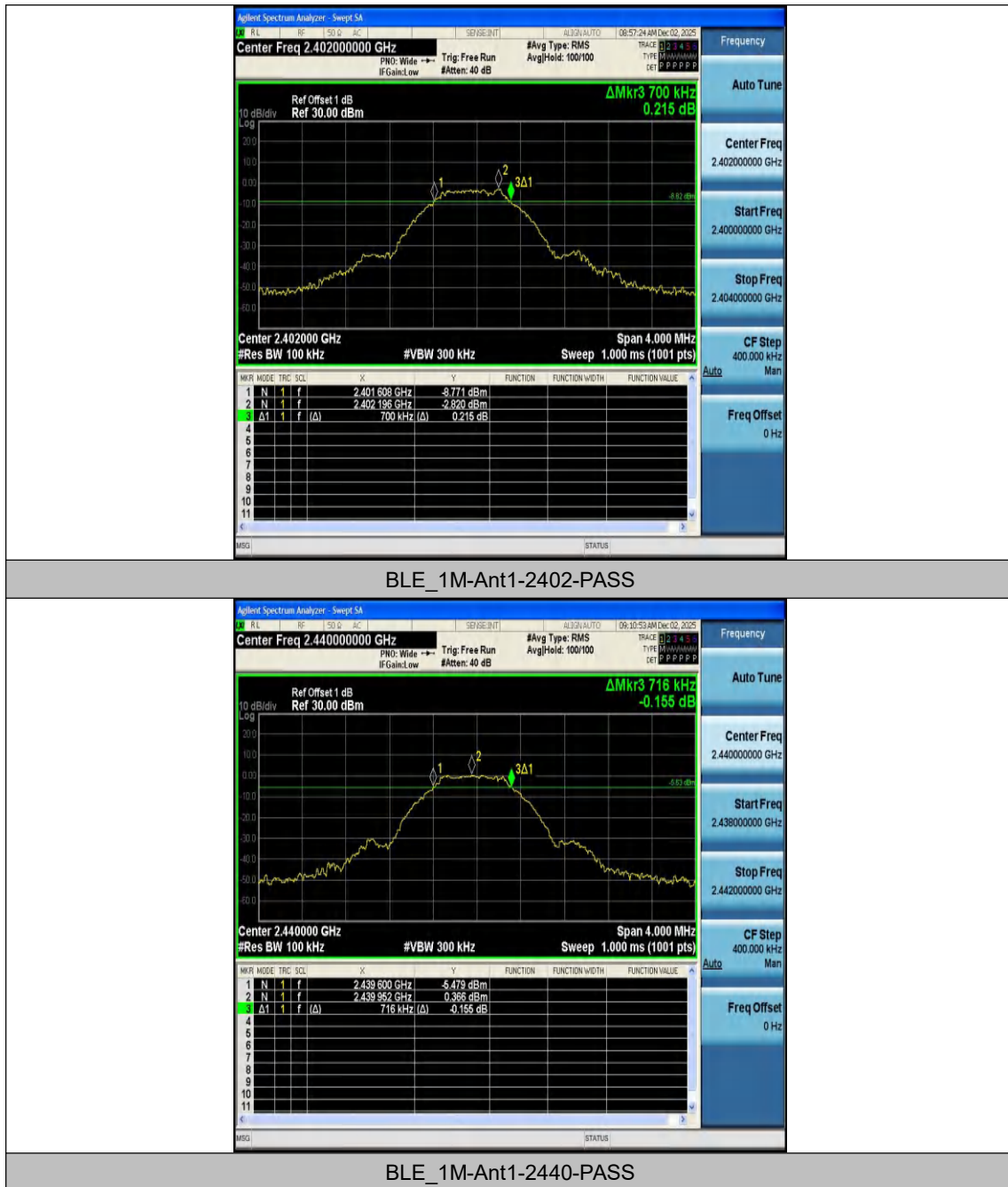


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.608	2402.308	0.5	PASS
BLE_1M	Ant1	2440	0.716	2439.600	2440.316	0.5	PASS
BLE_1M	Ant1	2480	0.664	2479.620	2480.284	0.5	PASS
BLE_2M	Ant1	2402	1.168	2401.392	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.212	2439.324	2440.536	0.5	PASS
BLE_2M	Ant1	2480	1.184	2479.300	2480.484	0.5	PASS

Test Graphs





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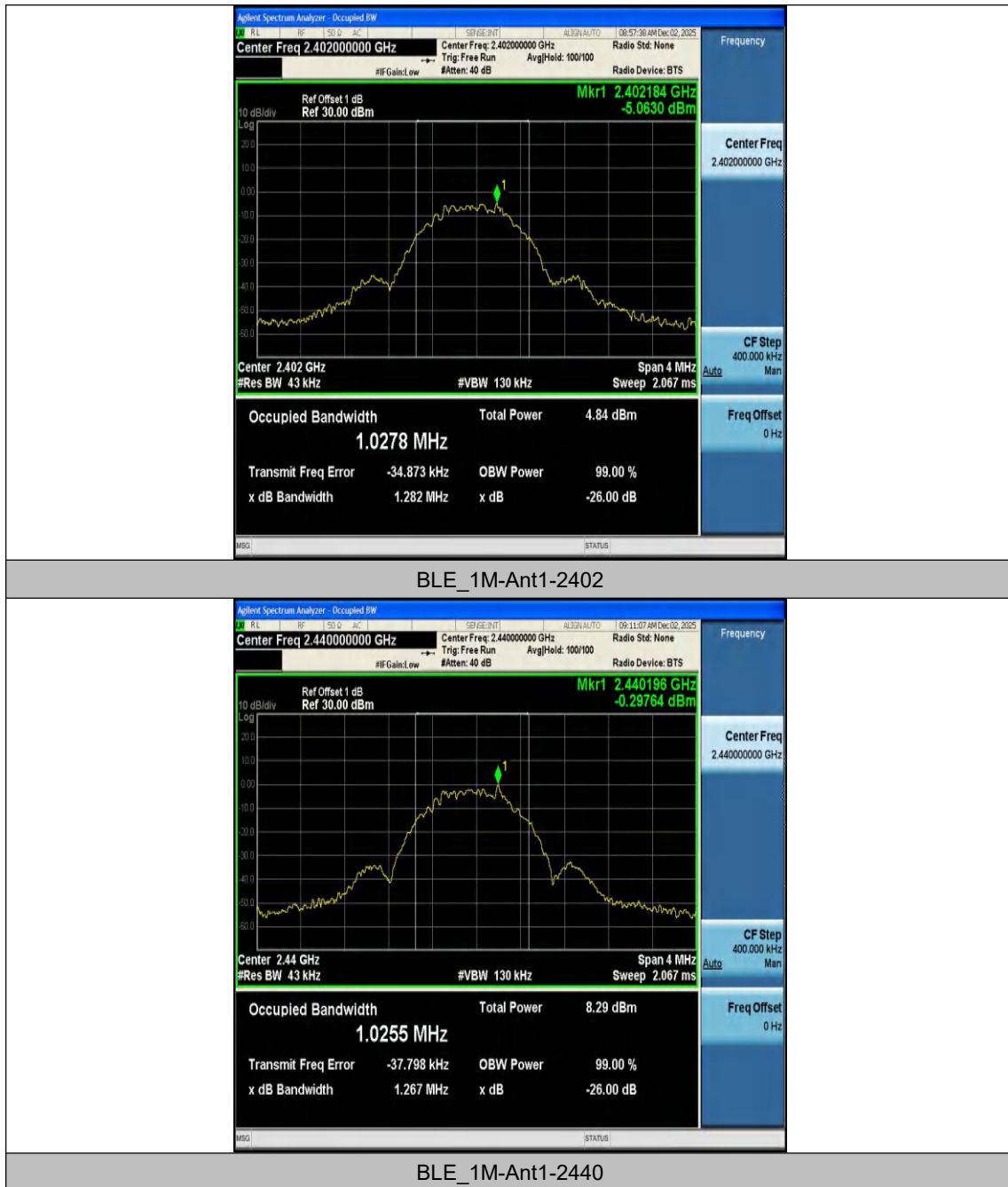
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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0278	2401.4512	2402.4790	---	---
BLE_1M	Ant1	2440	1.0255	2439.4495	2440.4750	---	---
BLE_1M	Ant1	2480	1.0317	2479.4464	2480.4781	---	---
BLE_2M	Ant1	2402	2.0547	2400.9526	2403.0073	---	---
BLE_2M	Ant1	2440	2.0767	2438.9393	2441.0160	---	---
BLE_2M	Ant1	2480	2.0760	2478.9432	2481.0192	---	---

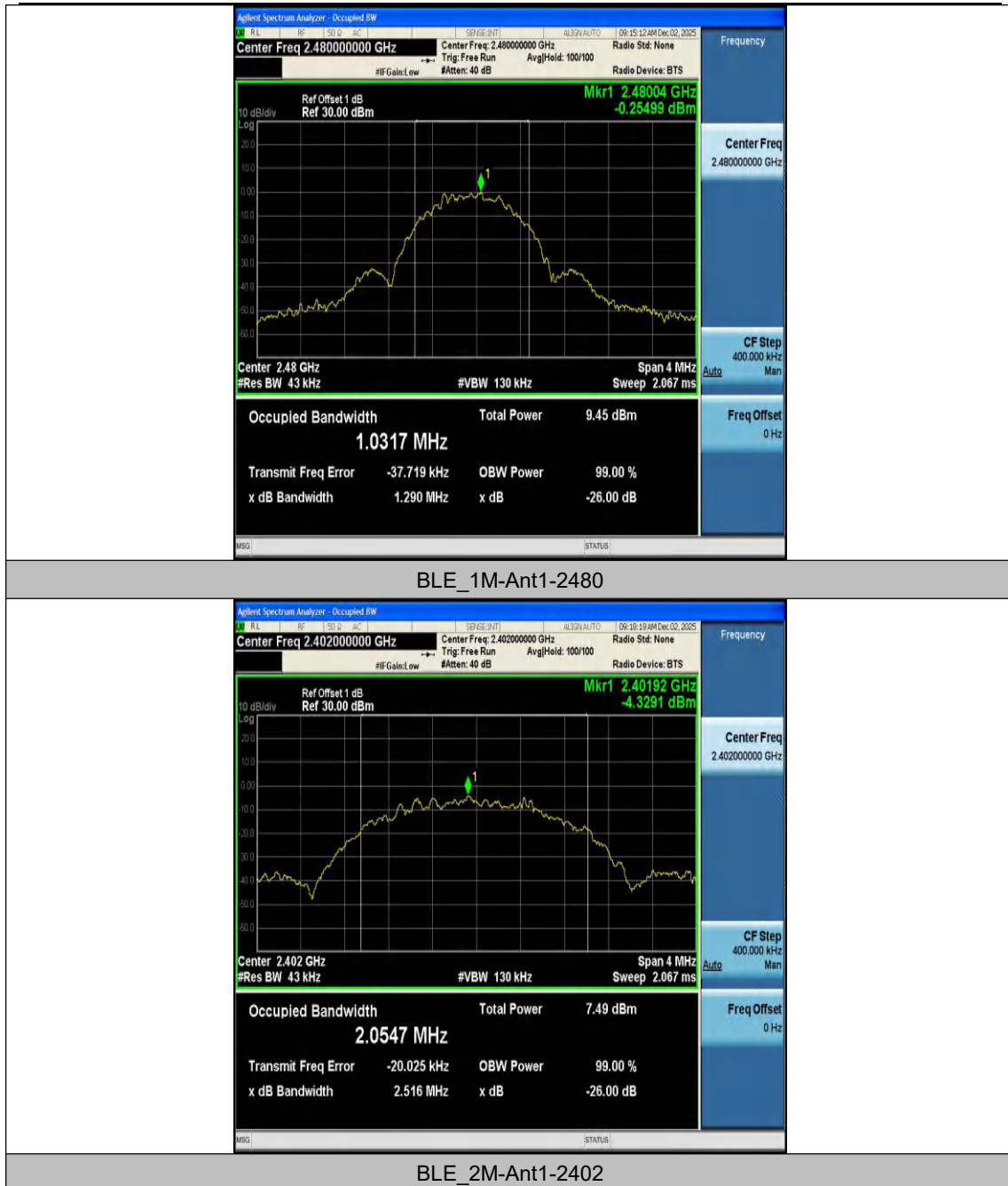
Test Graphs



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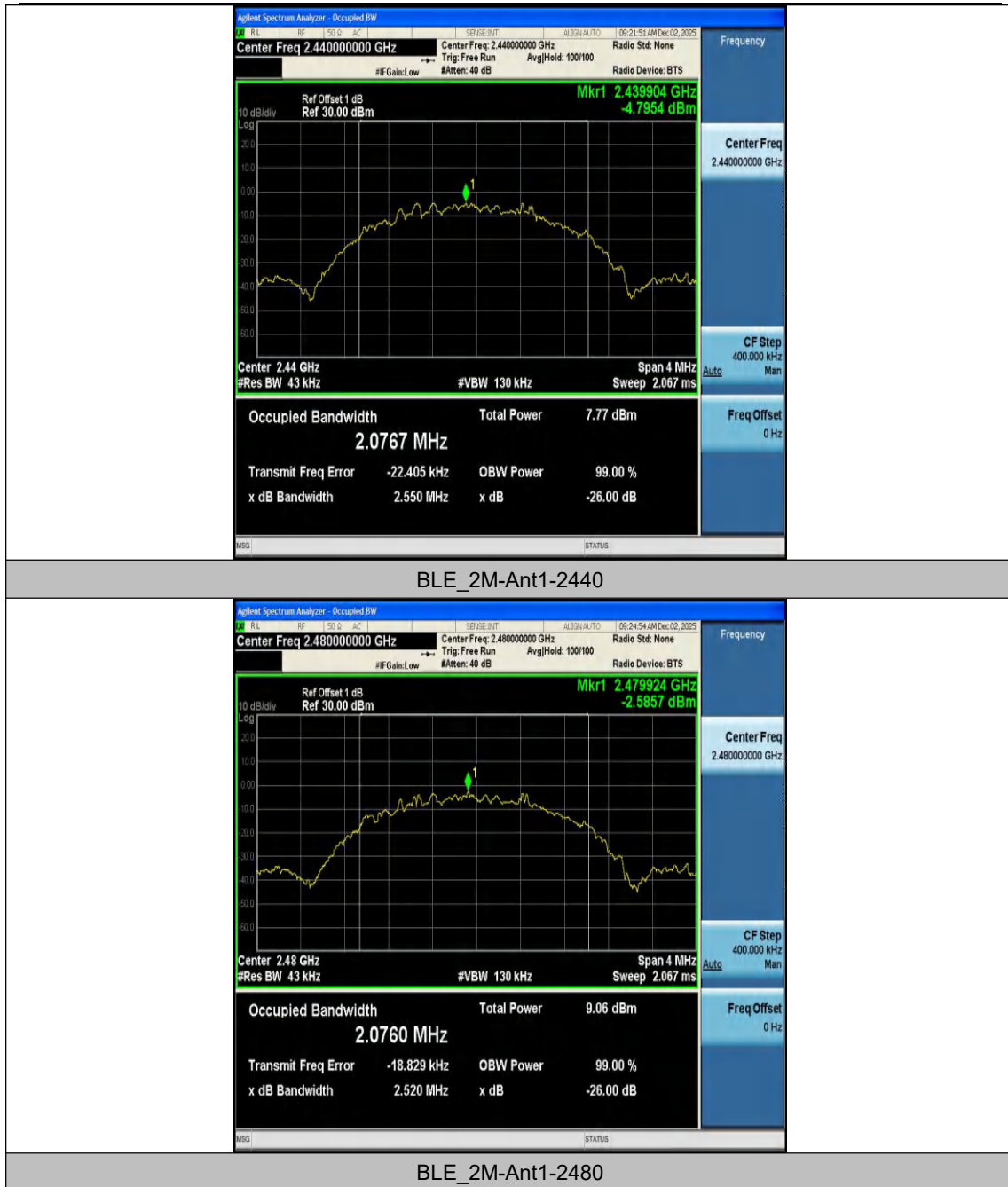
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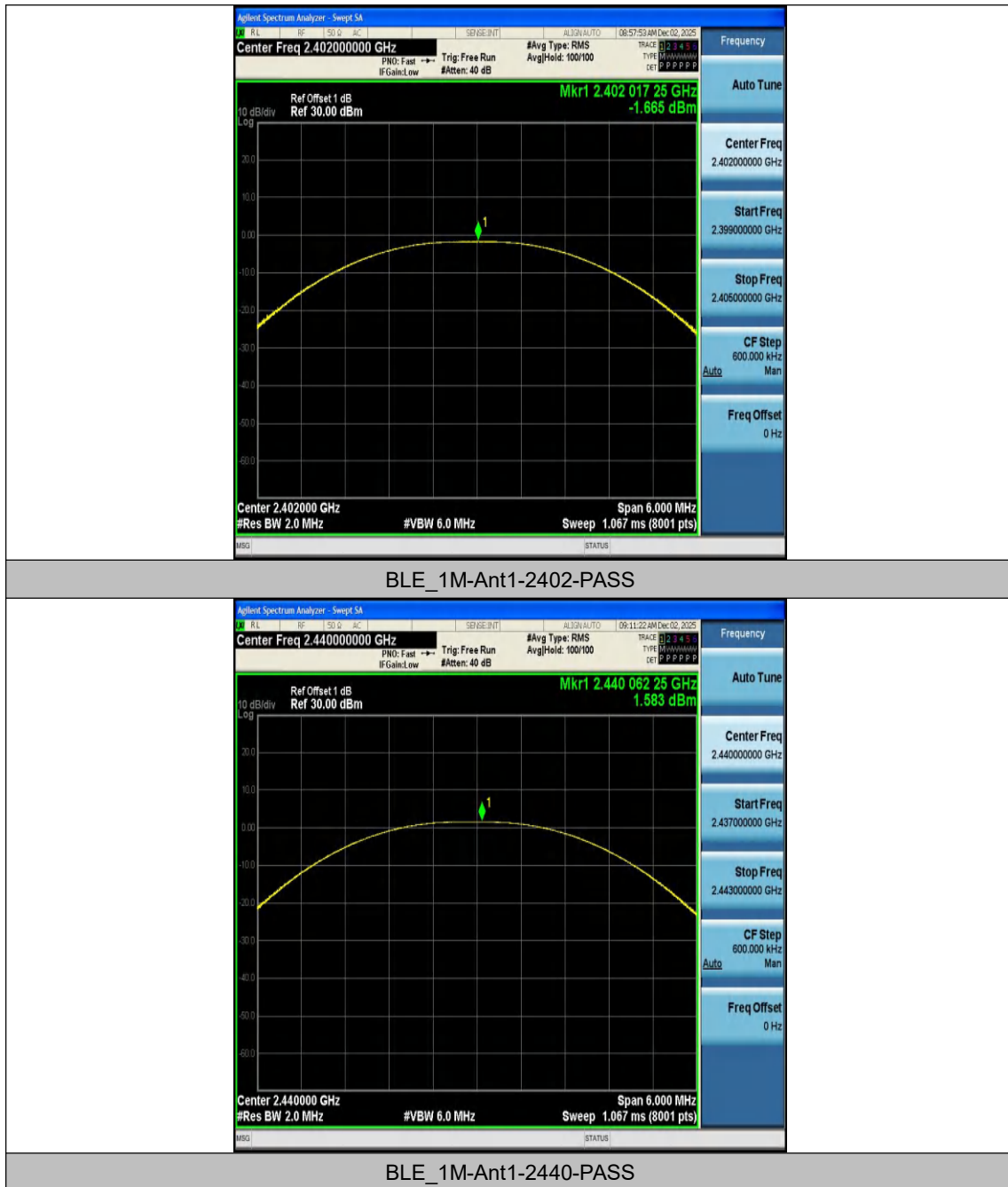
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.67	≤30	PASS
BLE_1M	Ant1	2440	1.58	≤30	PASS
BLE_1M	Ant1	2480	2.98	≤30	PASS
BLE_2M	Ant1	2402	1.30	≤30	PASS
BLE_2M	Ant1	2440	1.50	≤30	PASS
BLE_2M	Ant1	2480	2.91	≤30	PASS

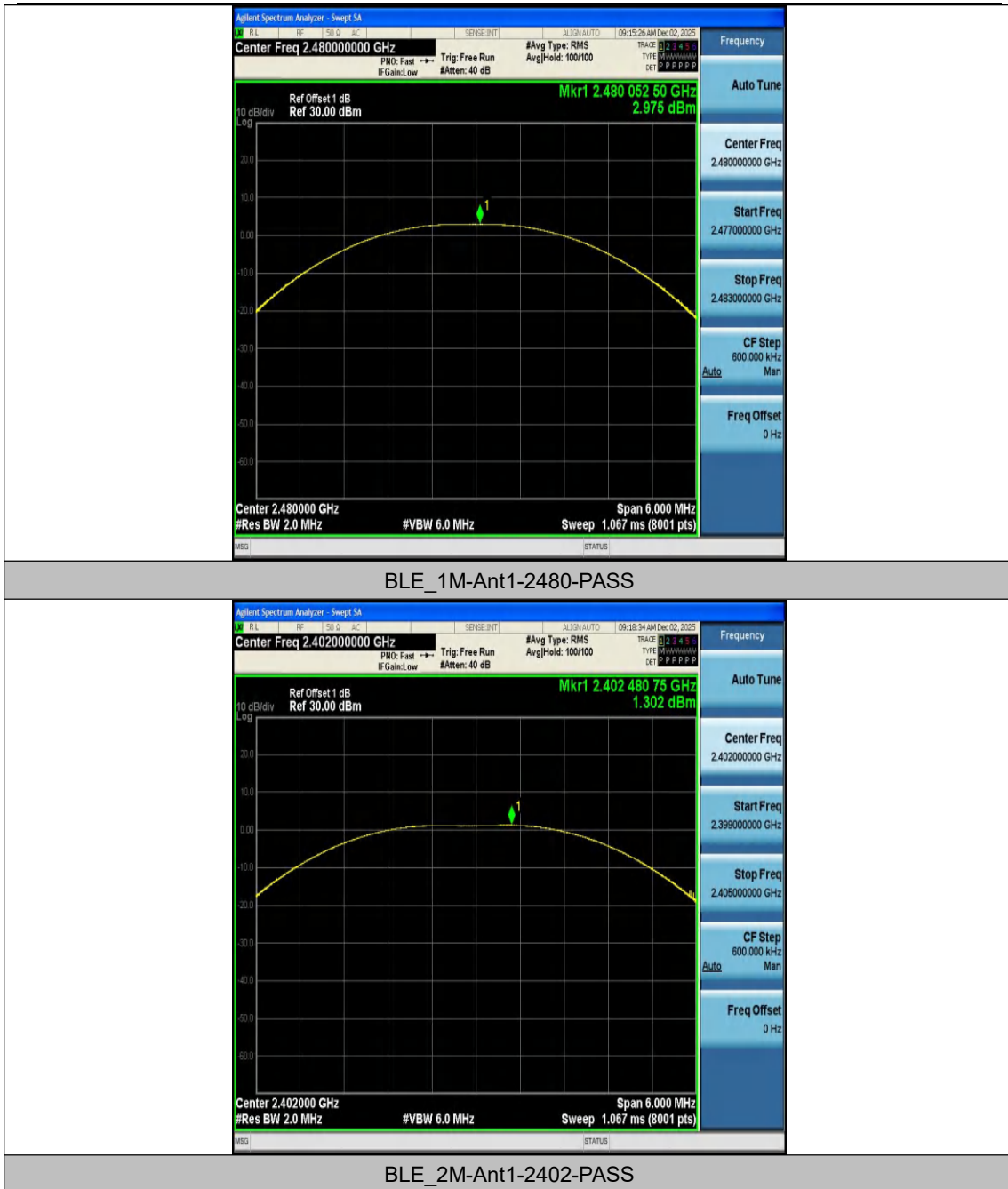
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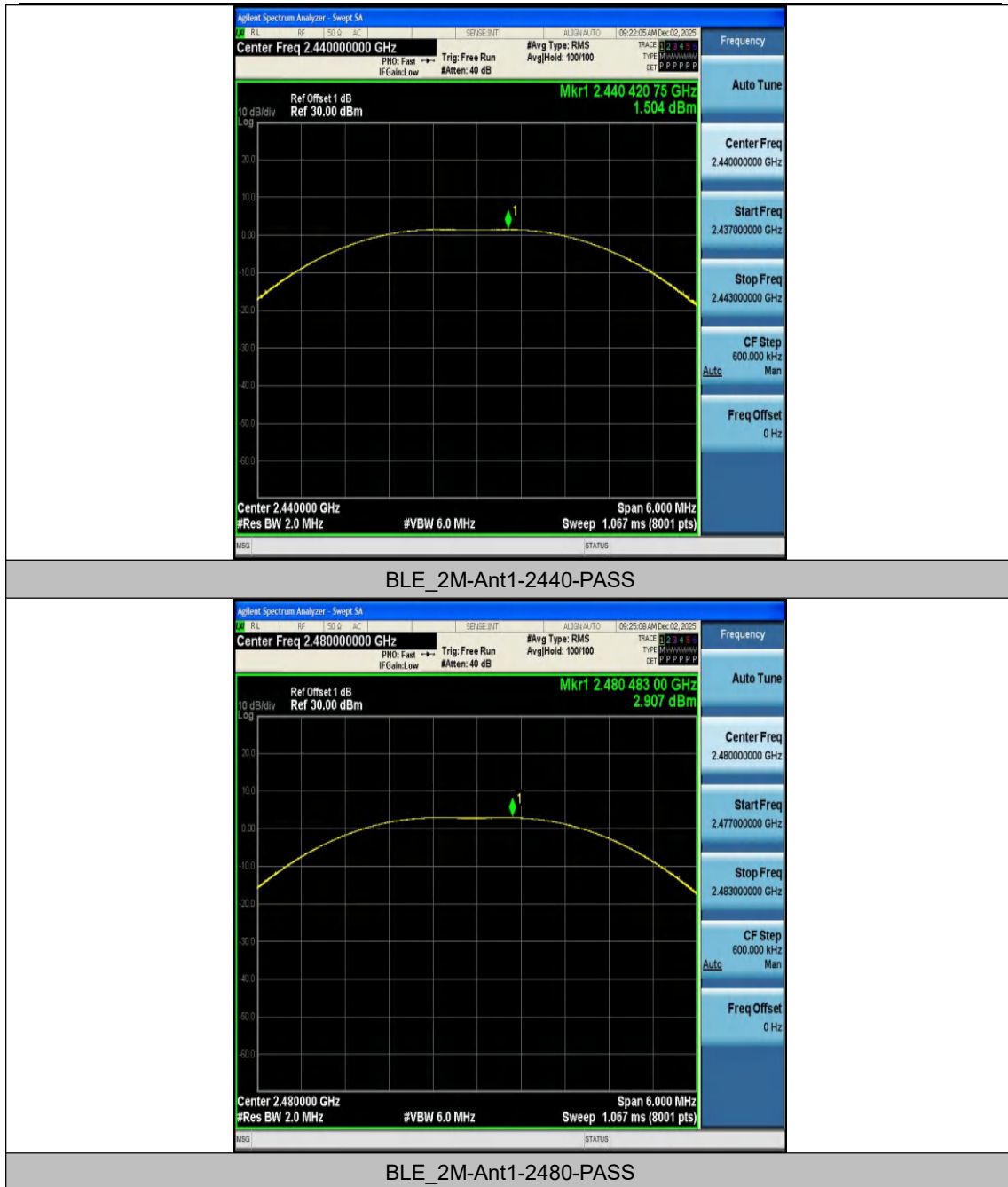
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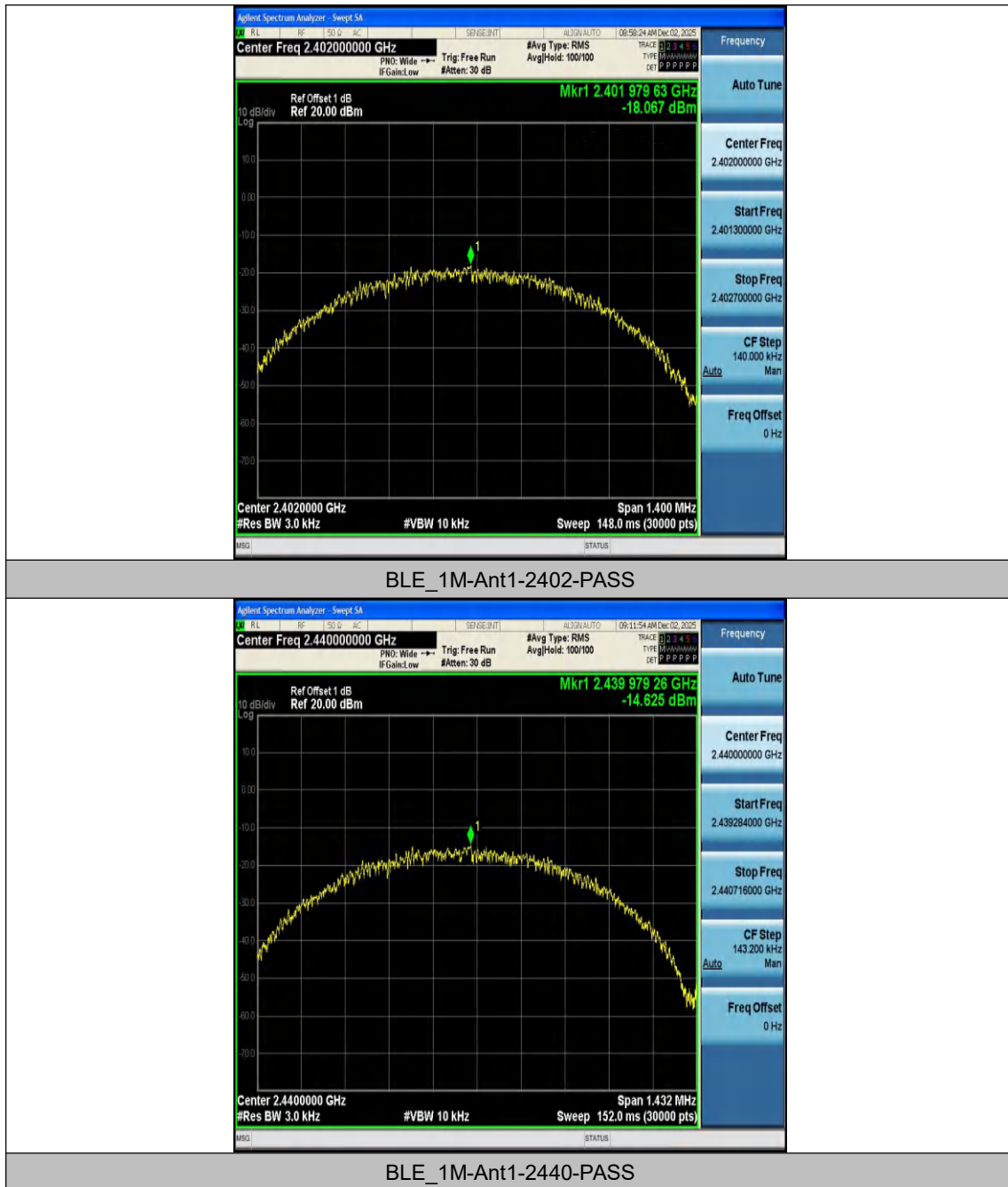
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.07	≤8.00	PASS
BLE_1M	Ant1	2440	-14.63	≤8.00	PASS
BLE_1M	Ant1	2480	-13.18	≤8.00	PASS
BLE_2M	Ant1	2402	-18.11	≤8.00	PASS
BLE_2M	Ant1	2440	-17.92	≤8.00	PASS
BLE_2M	Ant1	2480	-16.50	≤8.00	PASS

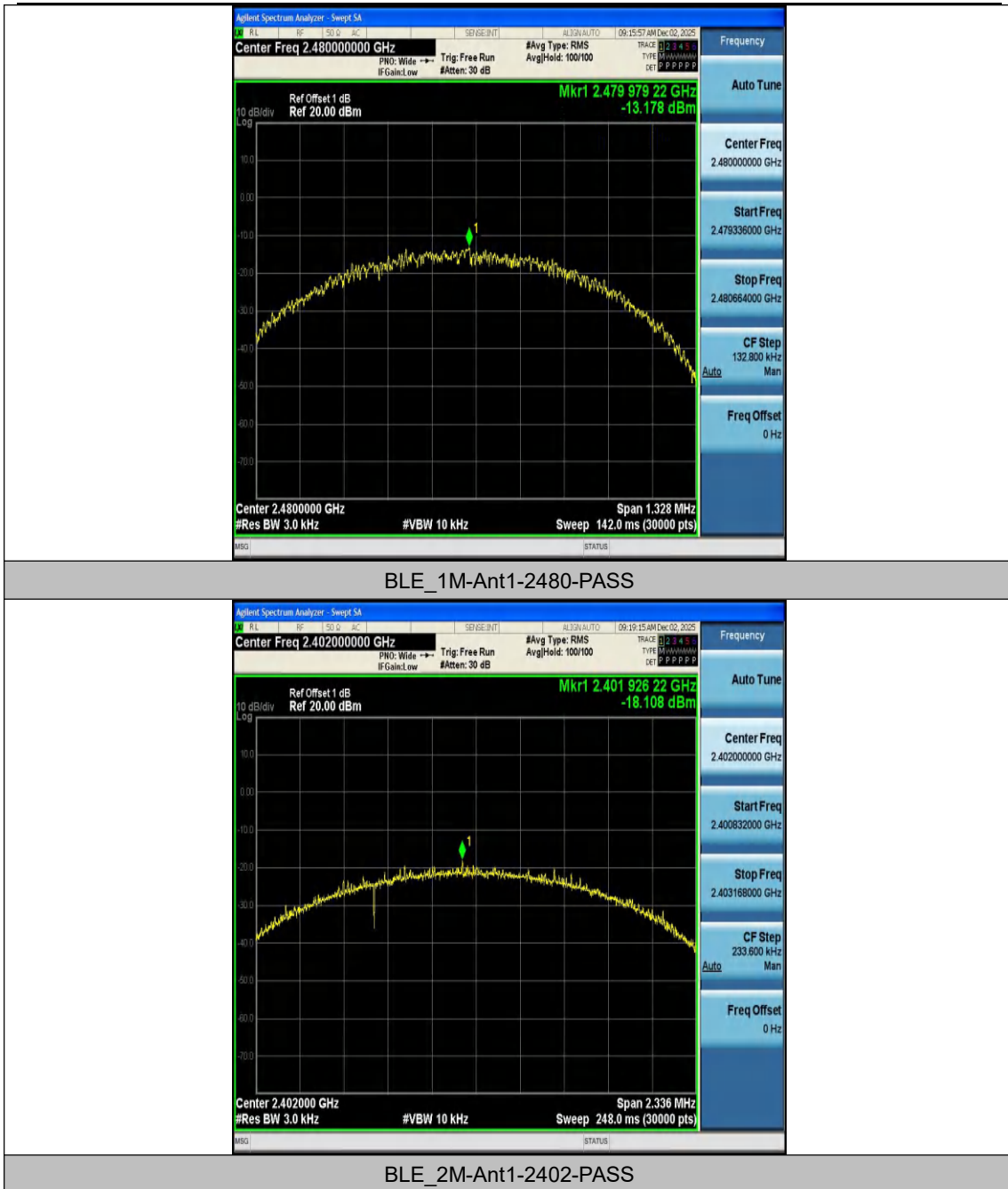
Test Graphs



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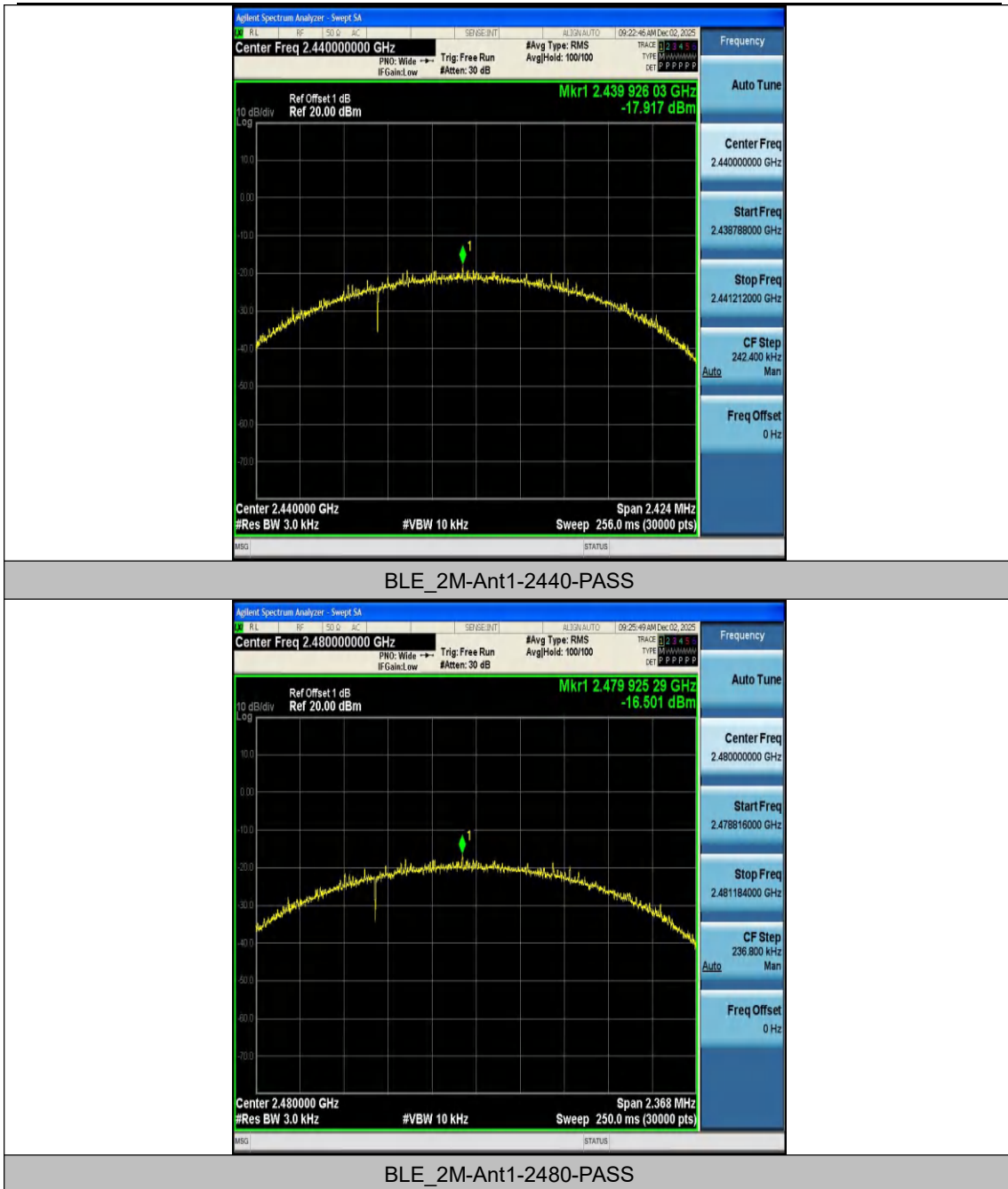
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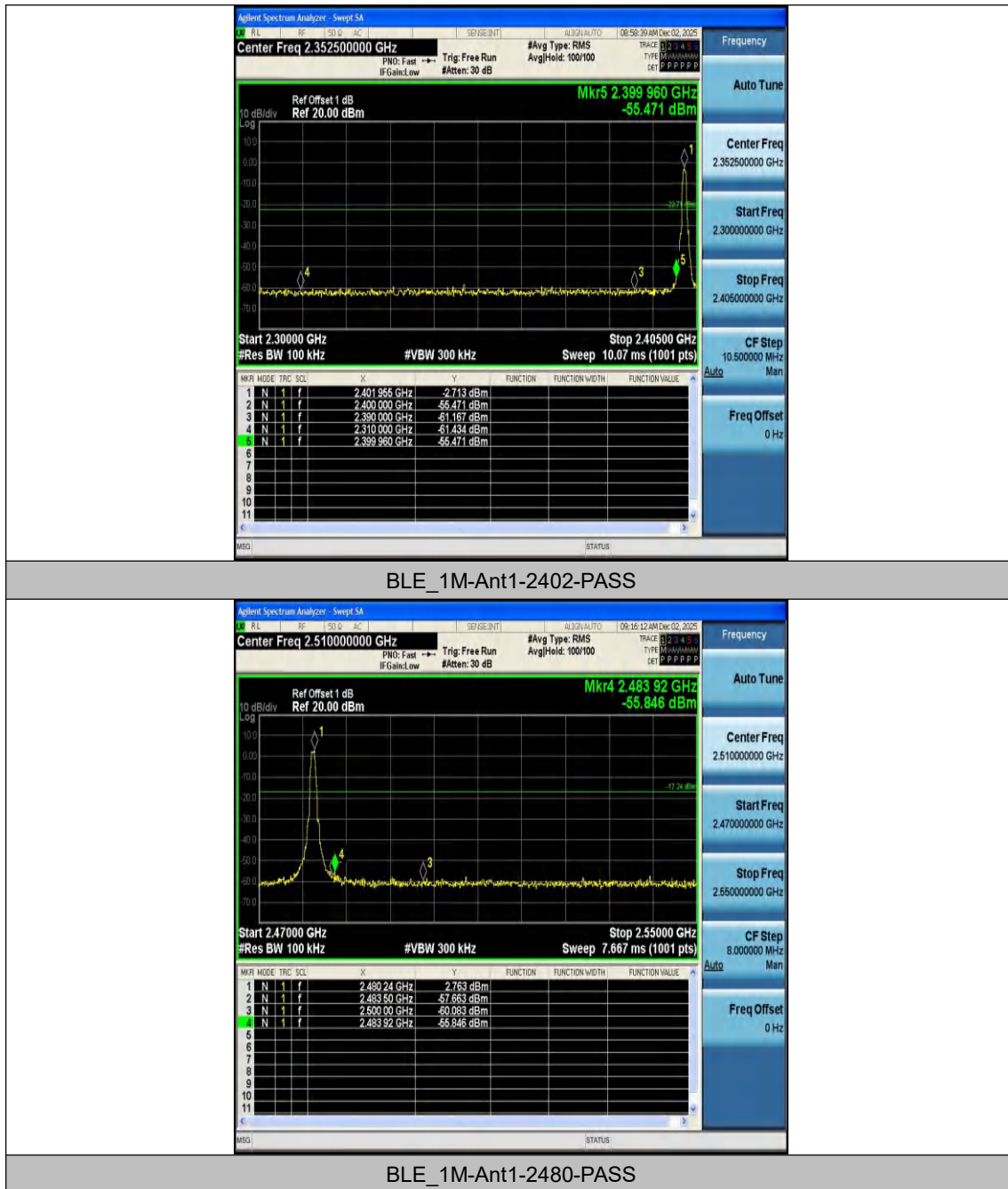
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.71	-55.47	≤-22.71	PASS
BLE_1M	Ant1	High	2480	2.76	-55.85	≤-17.24	PASS
BLE_2M	Ant1	Low	2402	-0.55	-35.48	≤-20.55	PASS
BLE_2M	Ant1	High	2480	1.83	-54.97	≤-18.17	PASS

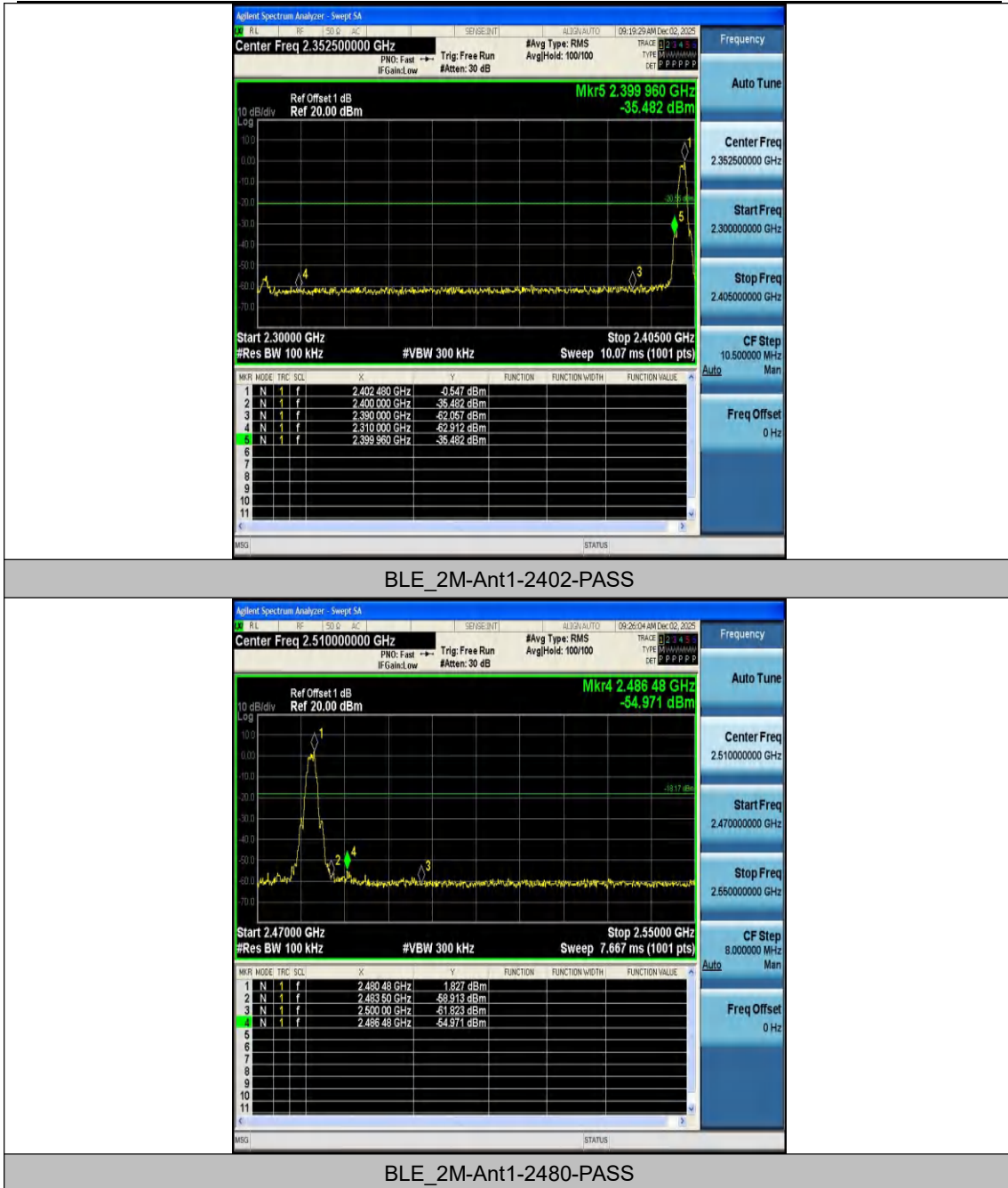
Test Graphs



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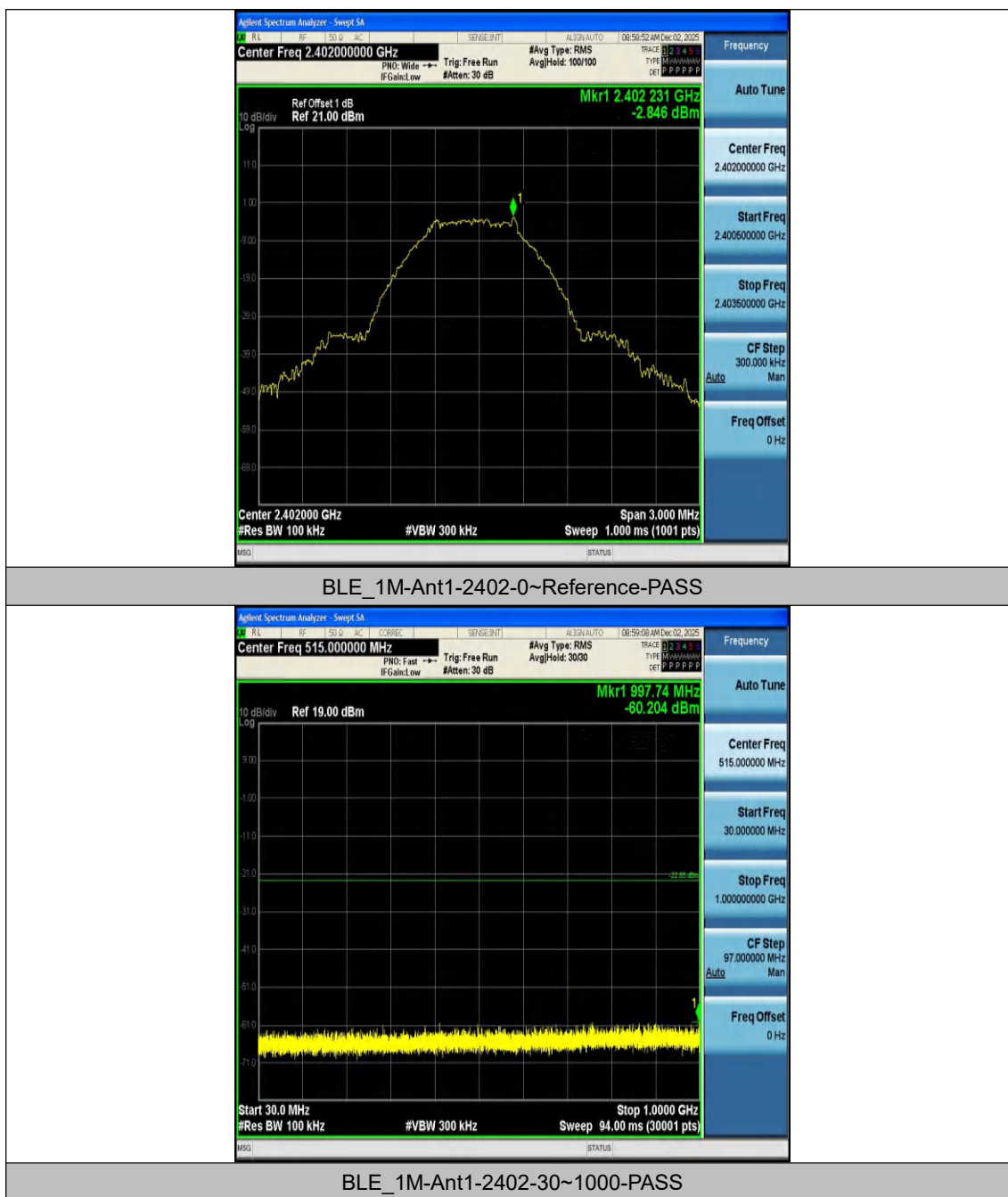
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.85	-2.85	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.85	-60.2	≤-22.85	PASS
BLE_1M	Ant1	2402	1000~26500	-2.85	-46.01	≤-22.85	PASS
BLE_1M	Ant1	2440	0~Reference	0.54	0.54	---	PASS
BLE_1M	Ant1	2440	30~1000	0.54	-60.07	≤-19.46	PASS
BLE_1M	Ant1	2440	1000~26500	0.54	-45	≤-19.46	PASS
BLE_1M	Ant1	2480	0~Reference	2.73	2.73	---	PASS
BLE_1M	Ant1	2480	30~1000	2.73	-59.12	≤-17.27	PASS
BLE_1M	Ant1	2480	1000~26500	2.73	-46.58	≤-17.27	PASS
BLE_2M	Ant1	2402	0~Reference	-0.33	-0.33	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.33	-60.27	≤-20.33	PASS
BLE_2M	Ant1	2402	1000~26500	-0.33	-46.2	≤-20.33	PASS
BLE_2M	Ant1	2440	0~Reference	0.15	0.15	---	PASS
BLE_2M	Ant1	2440	30~1000	0.15	-59.83	≤-19.85	PASS
BLE_2M	Ant1	2440	1000~26500	0.15	-45.92	≤-19.85	PASS
BLE_2M	Ant1	2480	0~Reference	1.42	1.42	---	PASS
BLE_2M	Ant1	2480	30~1000	1.42	-60.35	≤-18.58	PASS
BLE_2M	Ant1	2480	1000~26500	1.42	-45.51	≤-18.58	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.

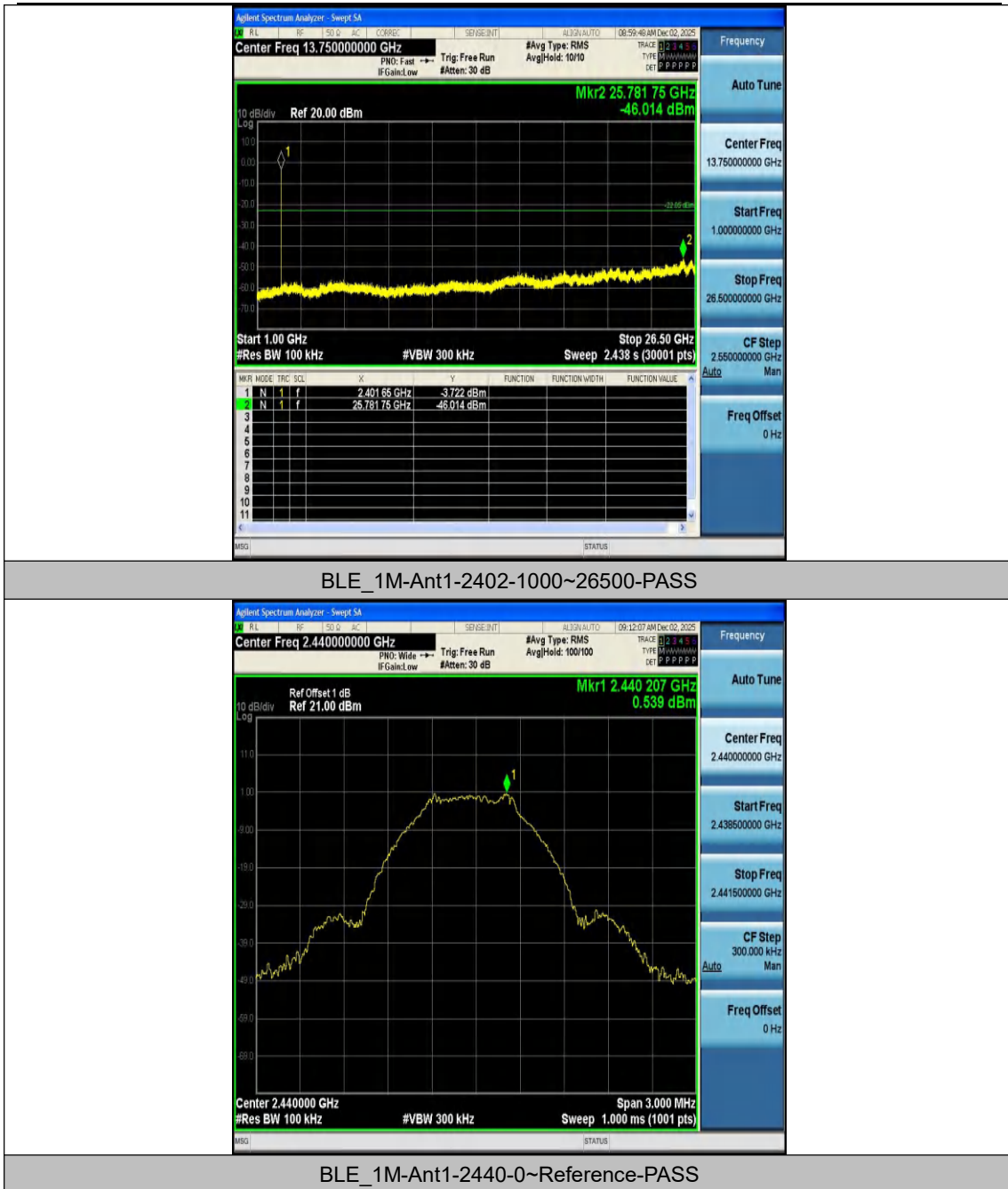
Test Graphs



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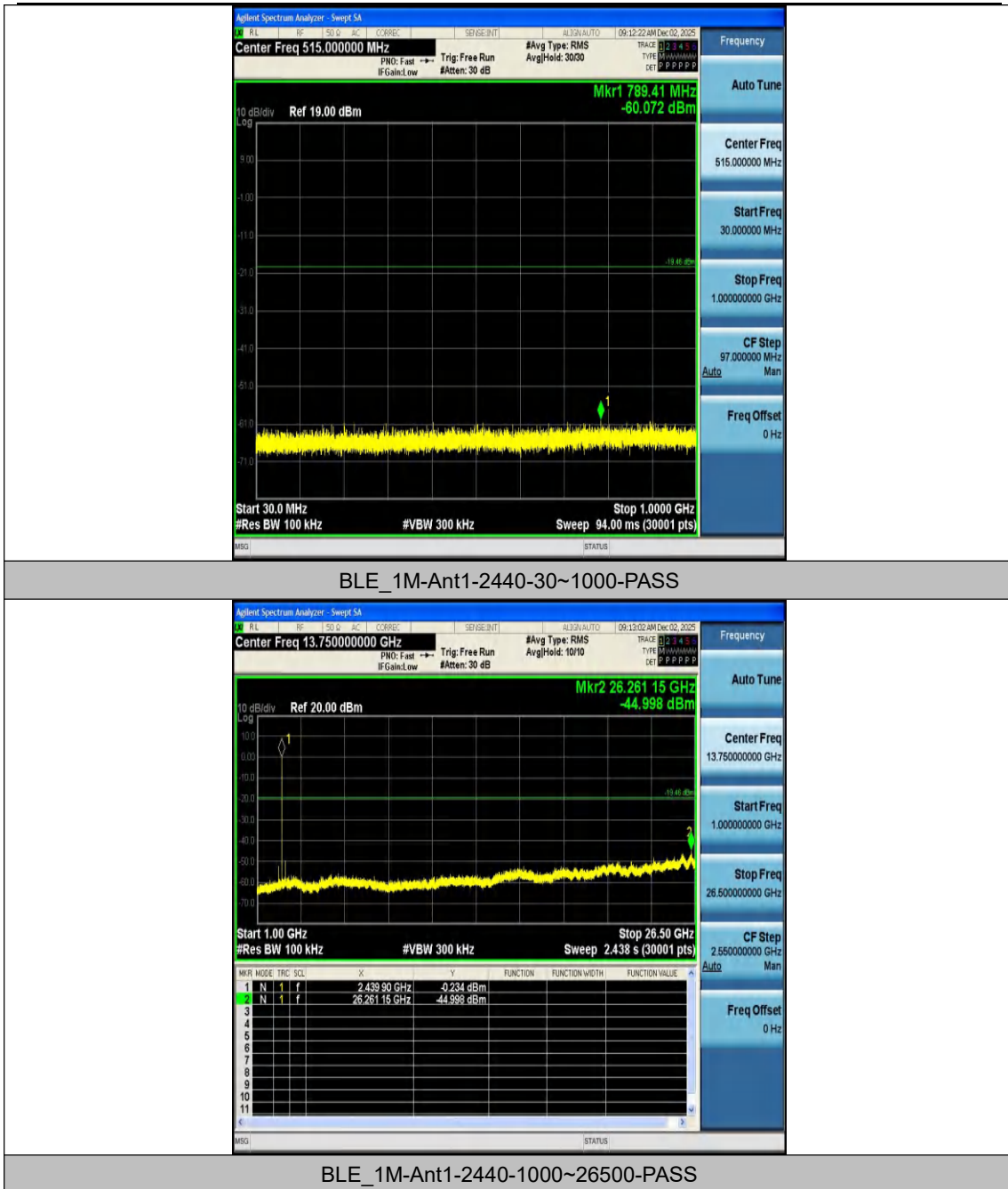
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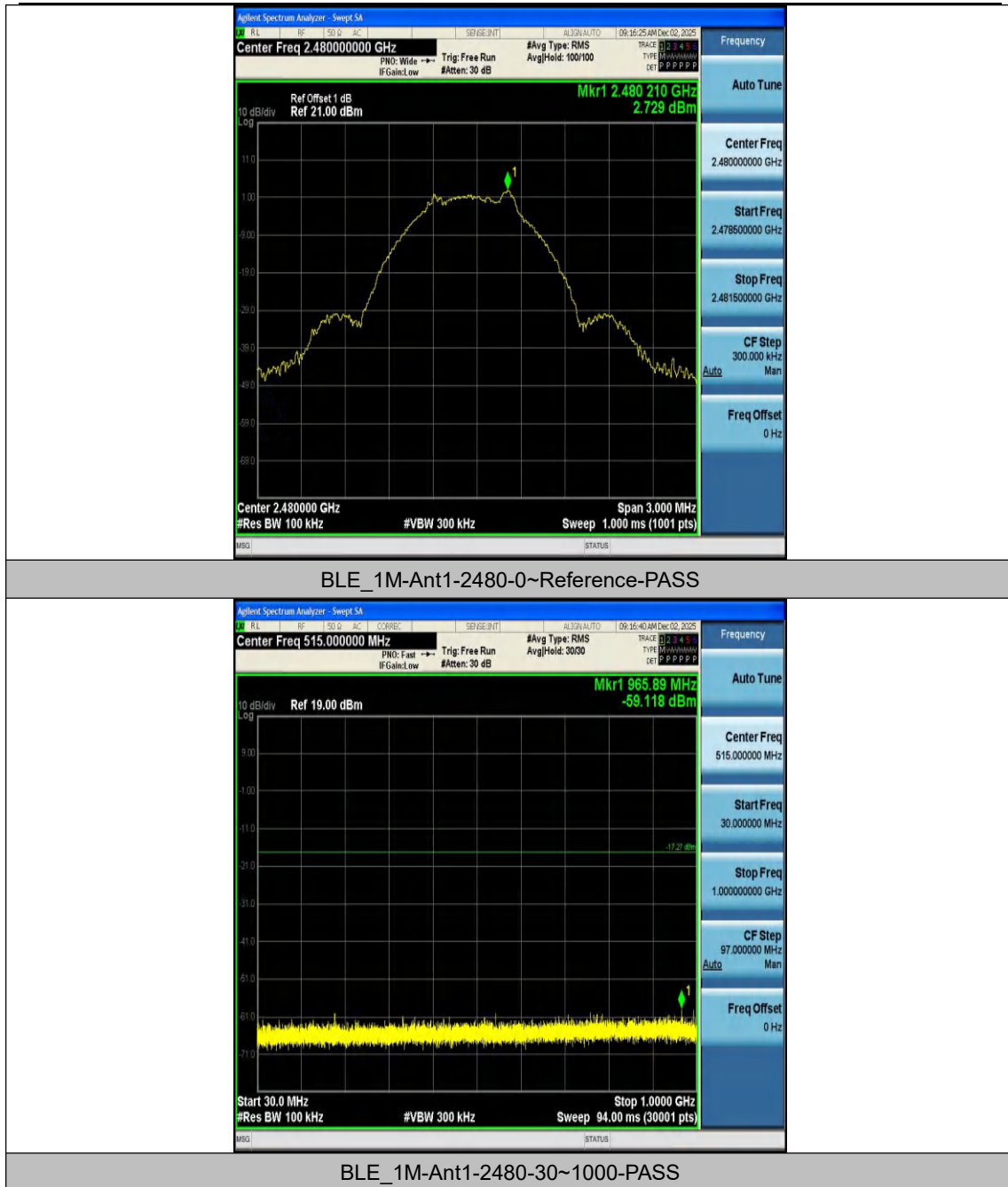
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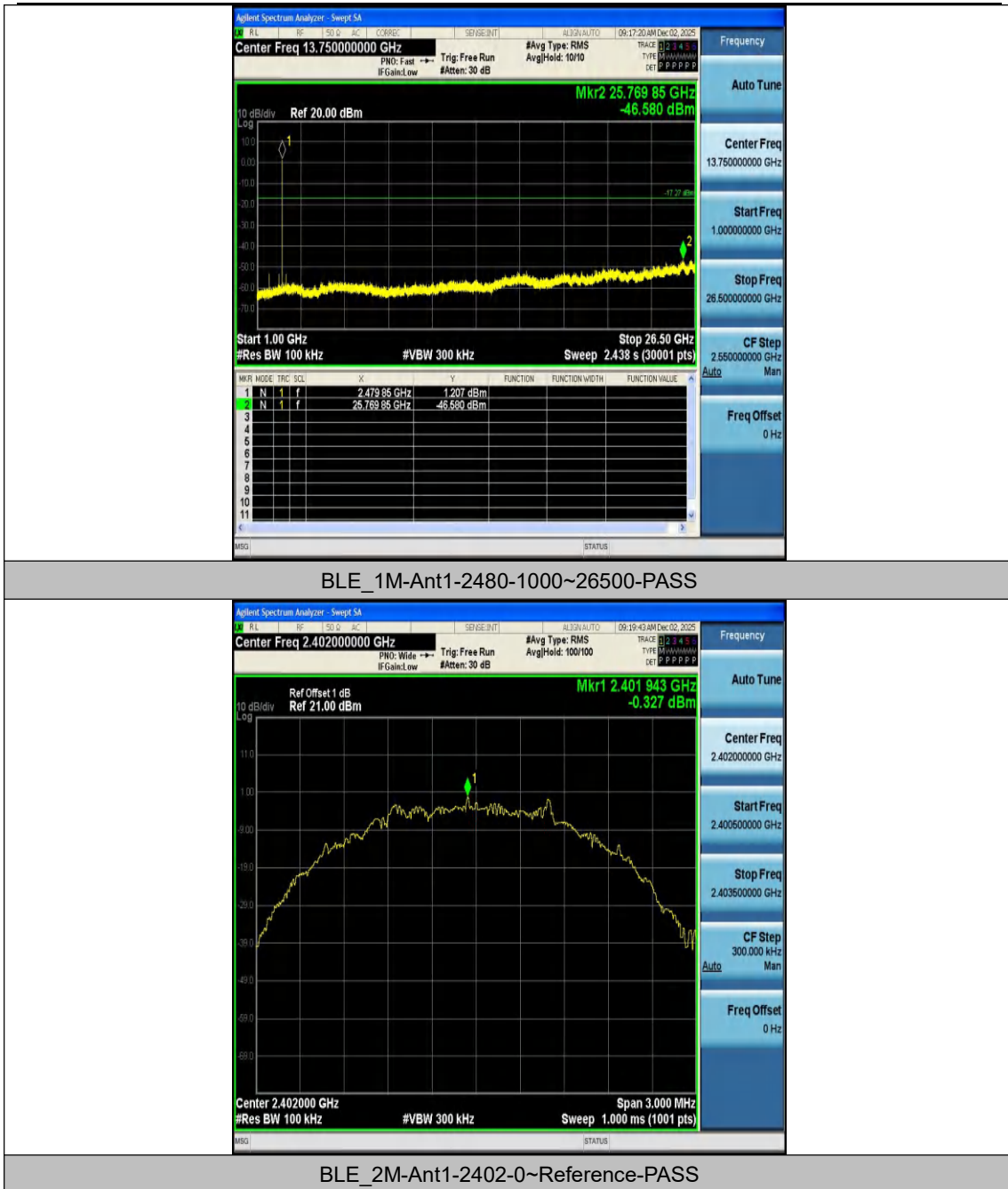
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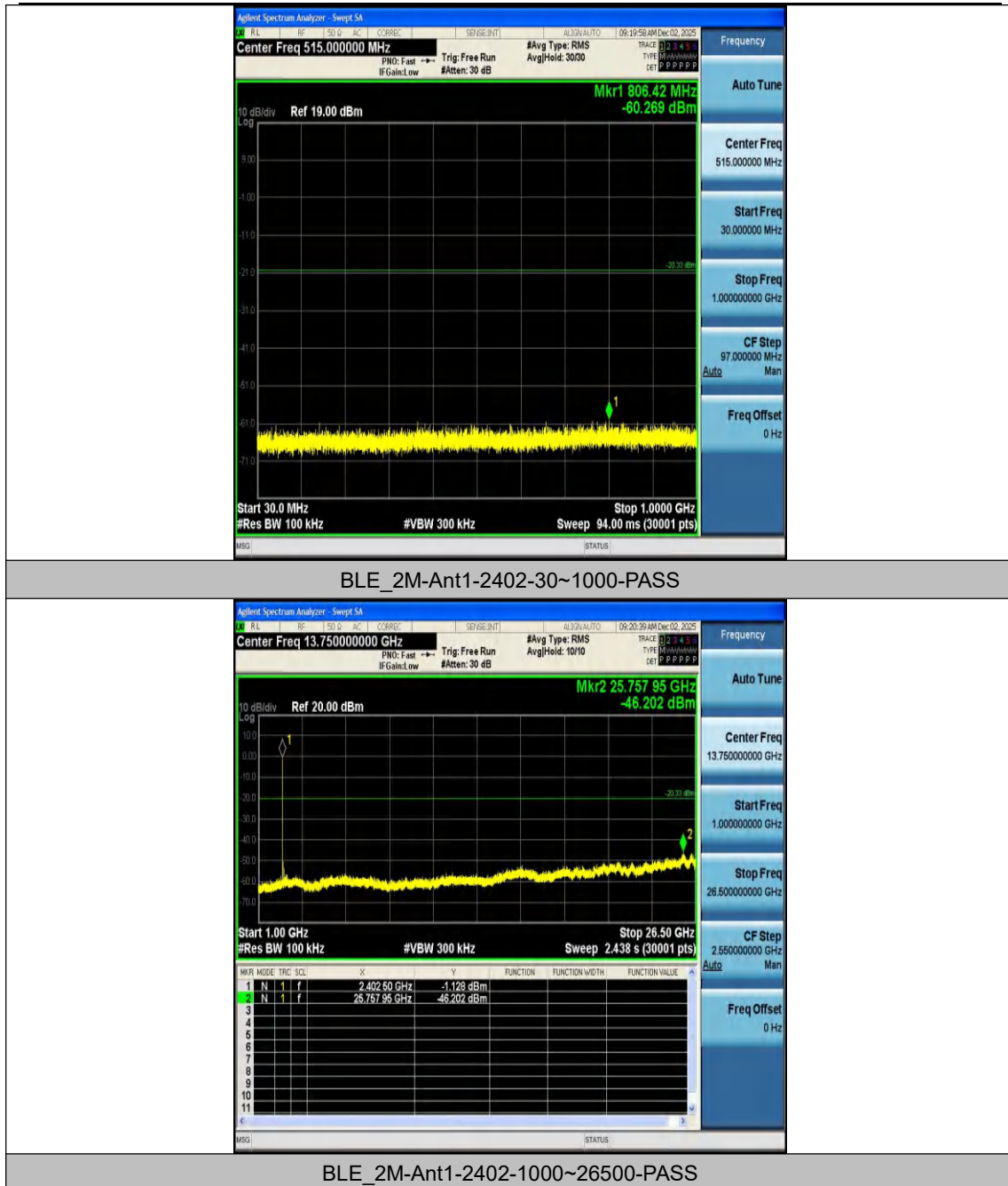
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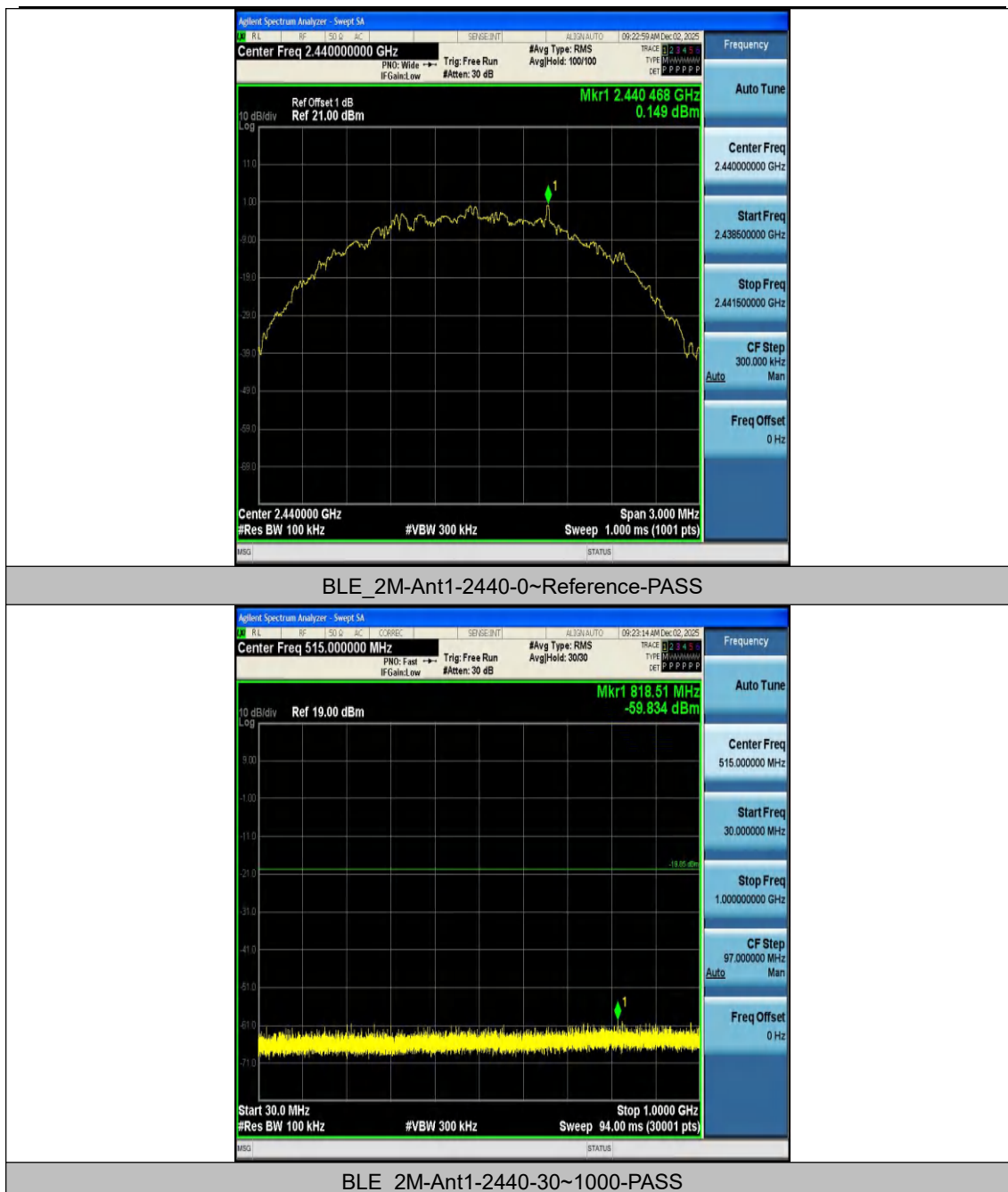


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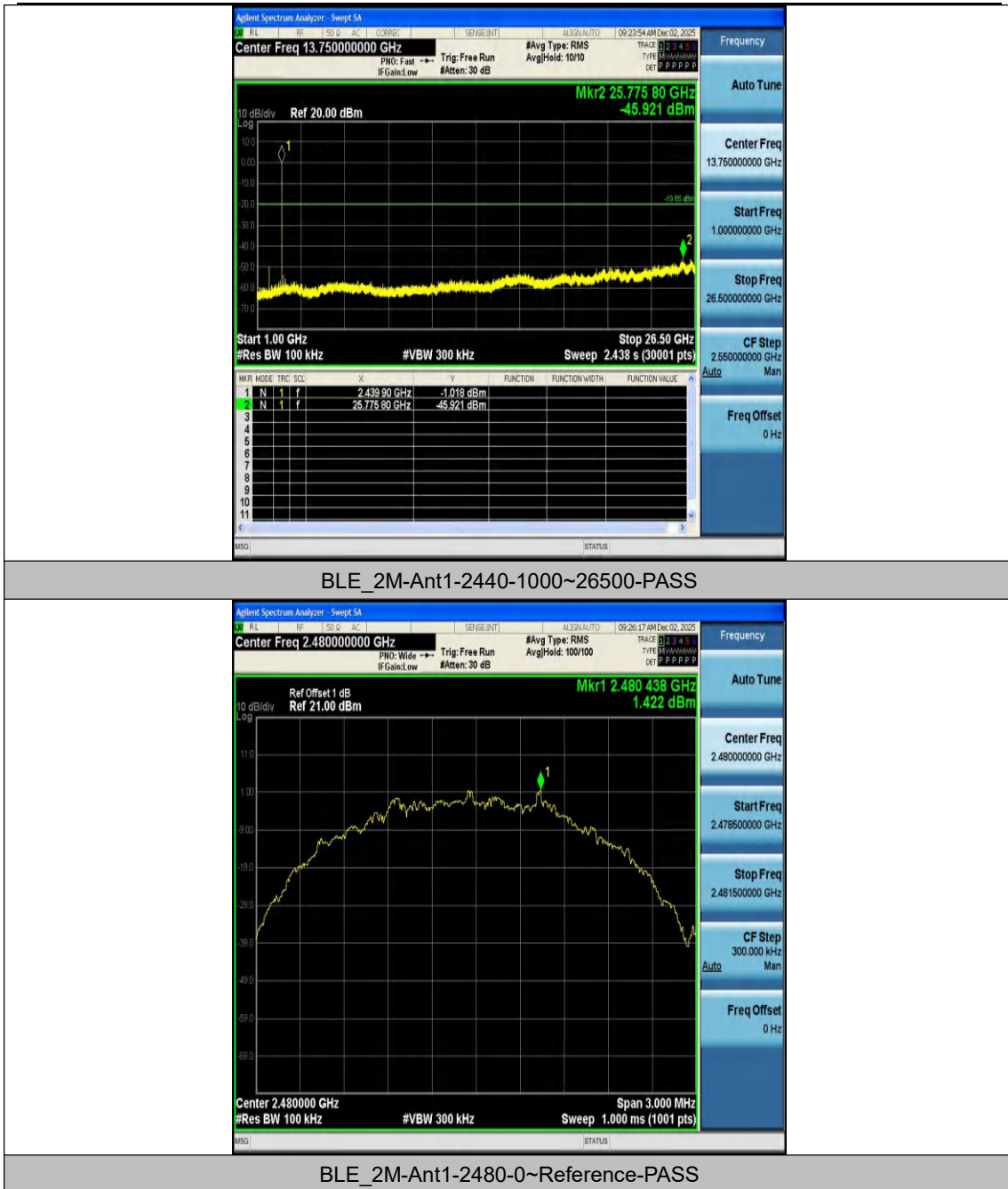




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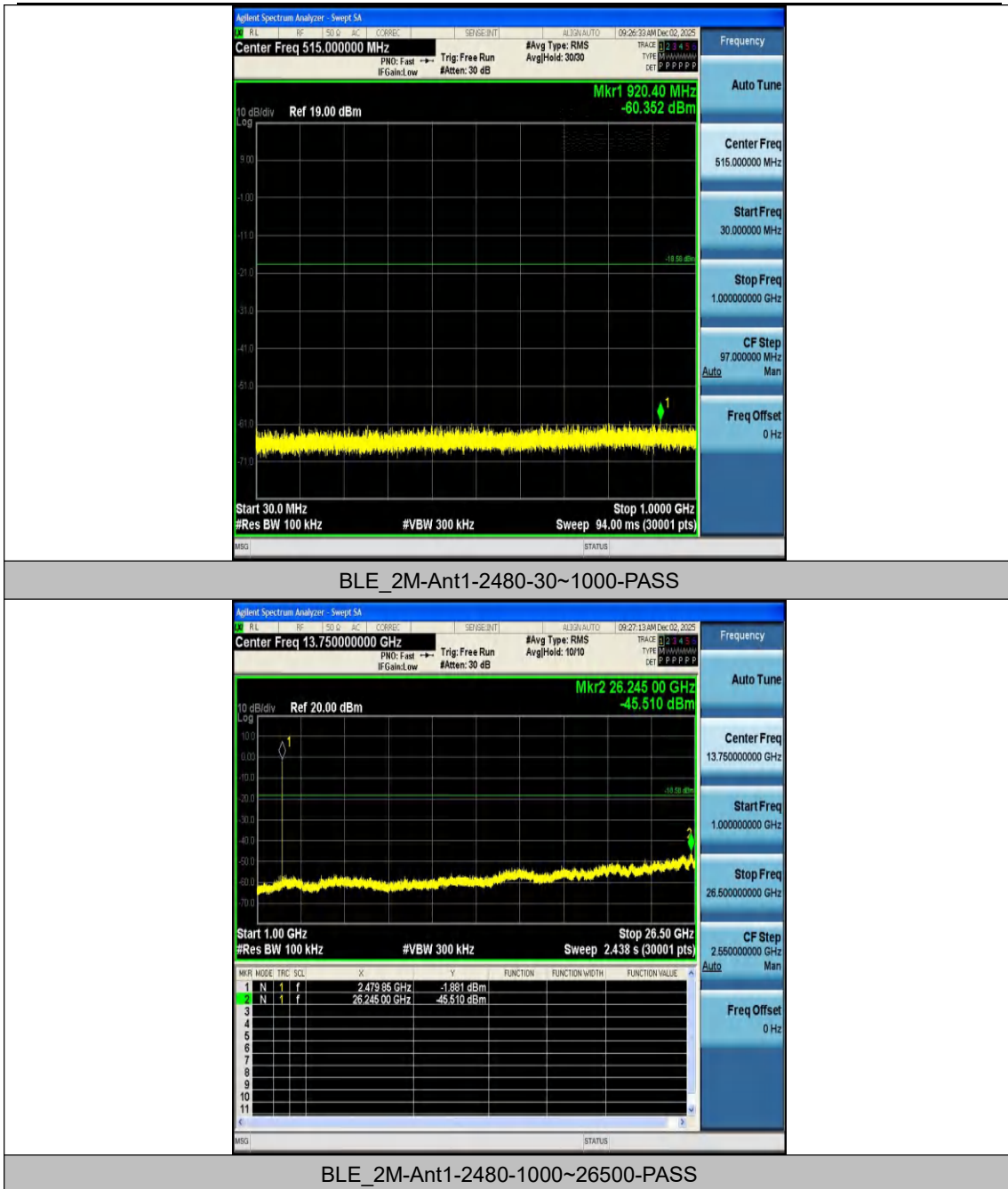
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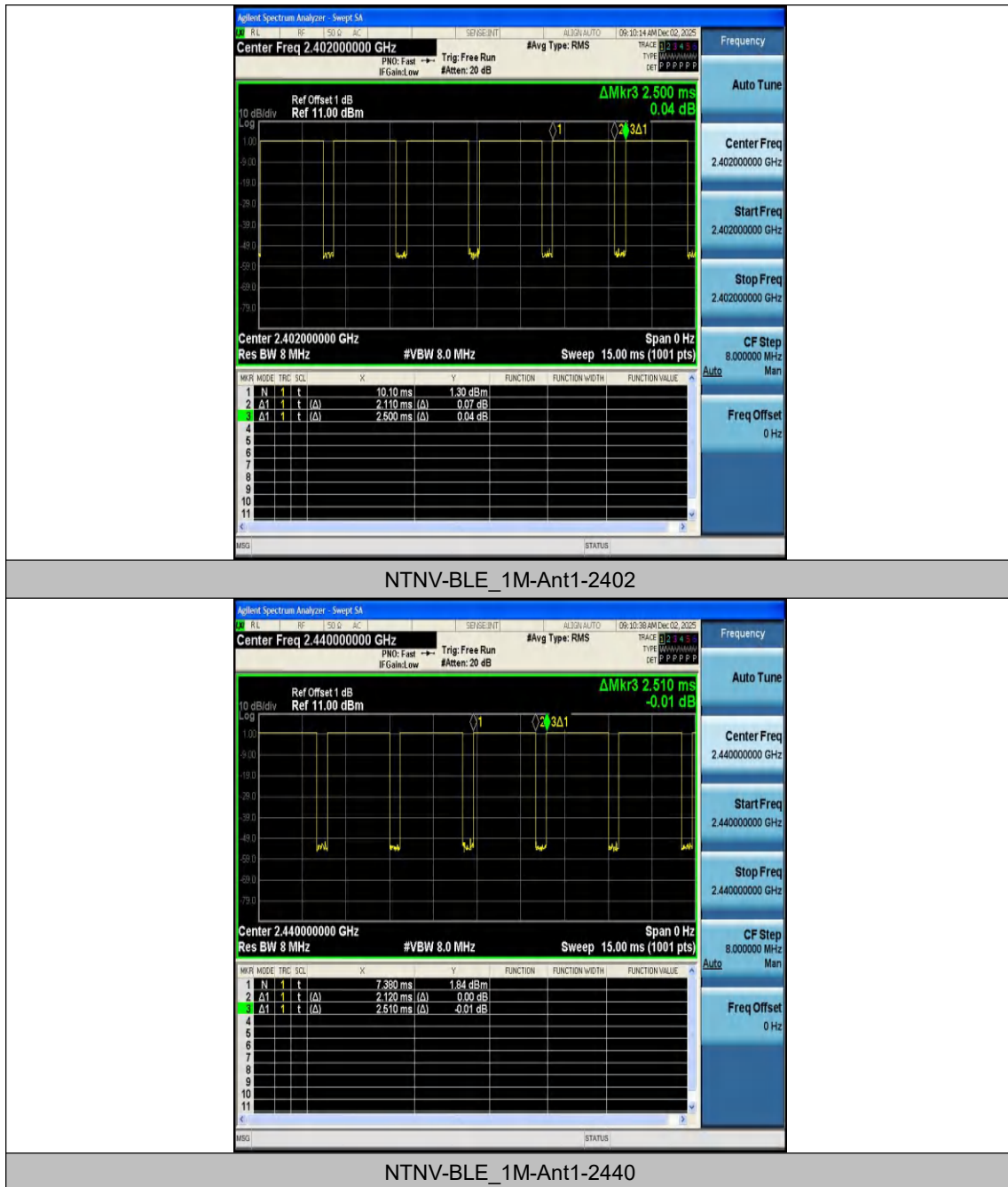
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.11	2.50	84.40	0.74
BLE_1M	Ant1	2440	2.12	2.51	84.46	0.73
BLE_1M	Ant1	2480	2.11	2.50	84.40	0.74
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.06	1.87	56.68	2.47

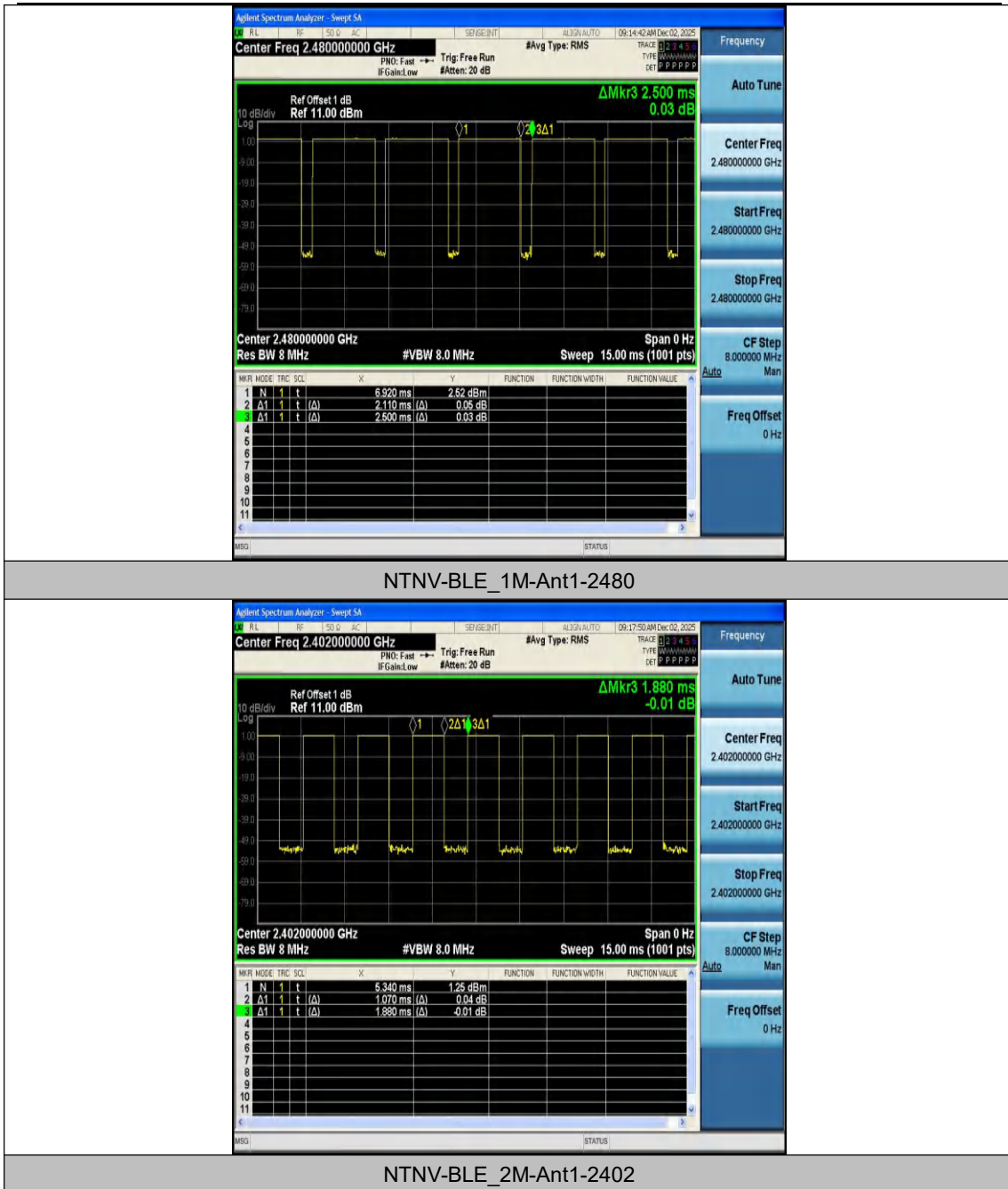
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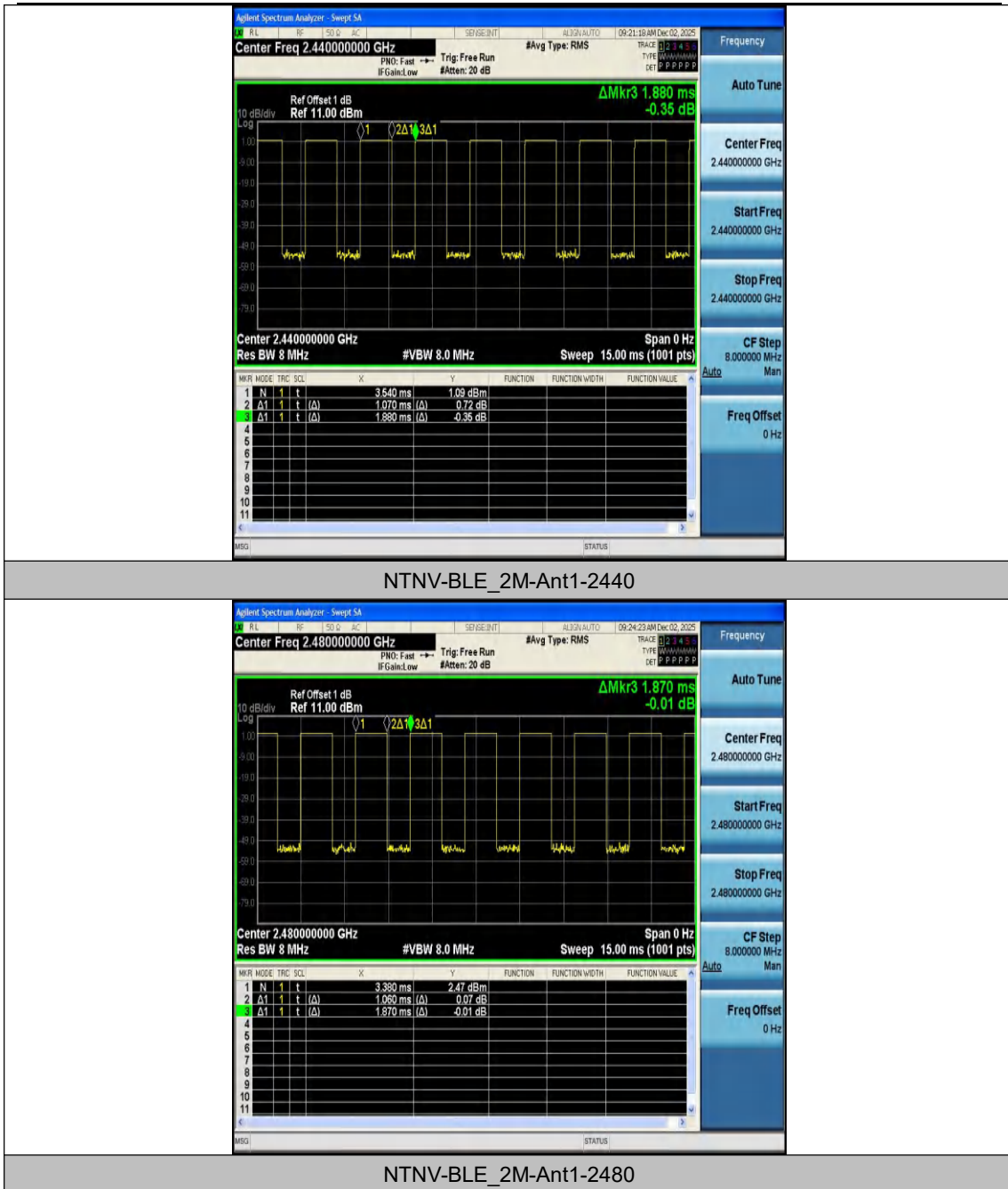
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