

Appendix Test Data

Report No.:	1819C50140012501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-26	Finish Test Date:	2025-12-31
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	19.7°C	Relative Humidity:	62%
Pressure:	101kPa		



Appendix A: 6dB Bandwidth

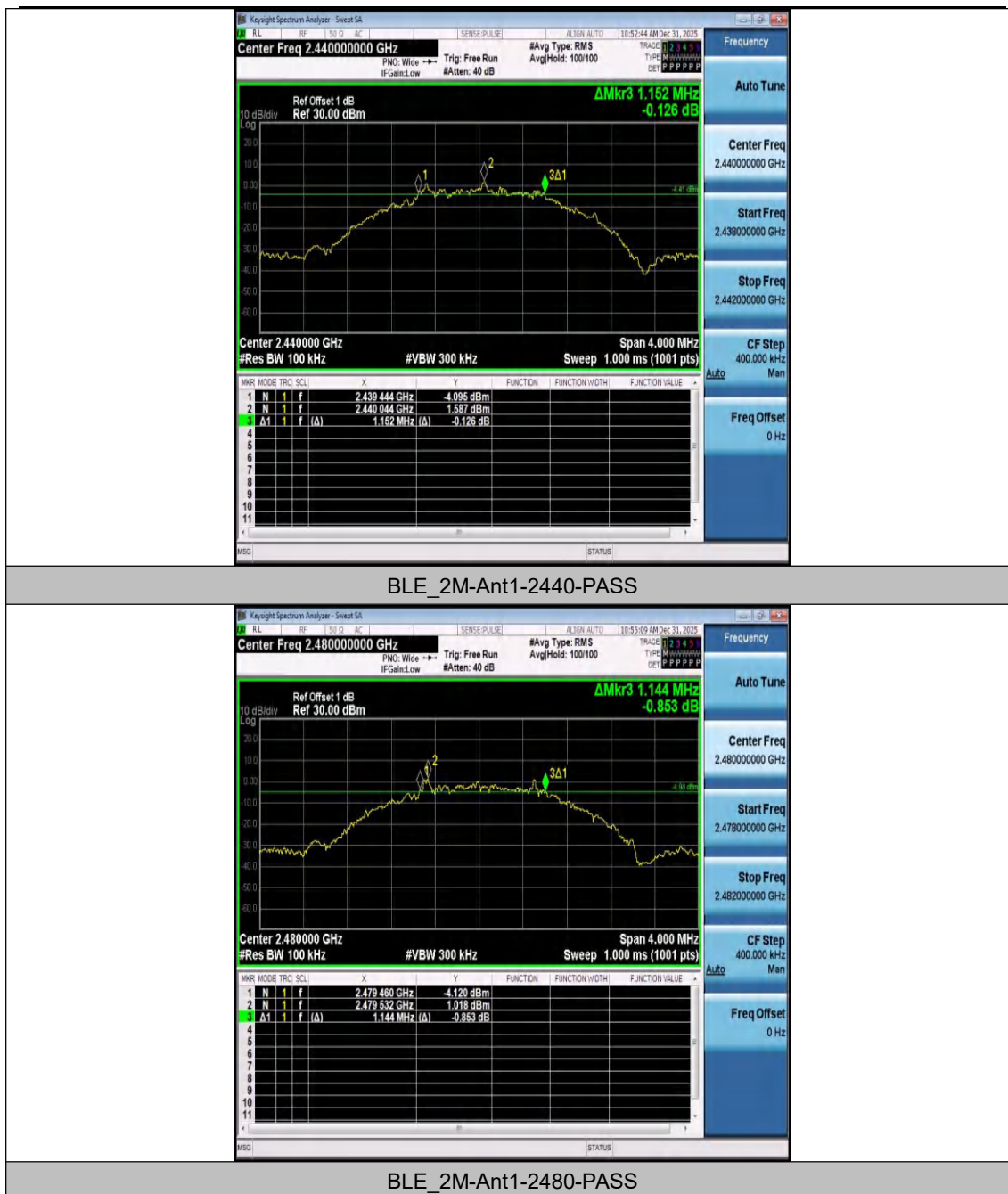
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.720	2401.656	2402.376	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.688	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.660	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.100	2401.460	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.152	2439.444	2440.596	0.5	PASS
BLE_2M	Ant1	2480	1.144	2479.460	2480.604	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	1.0303	2401.4979	2402.5282	---	---
BLE_1M	Ant1	2440	1.0446	2439.4951	2440.5397	---	---
BLE_1M	Ant1	2480	1.0326	2479.4971	2480.5297	---	---
BLE_2M	Ant1	2402	2.0640	2400.9885	2403.0525	---	---
BLE_2M	Ant1	2440	2.0836	2438.9818	2441.0654	---	---
BLE_2M	Ant1	2480	2.0858	2478.9830	2481.0688	---	---

Test Graphs



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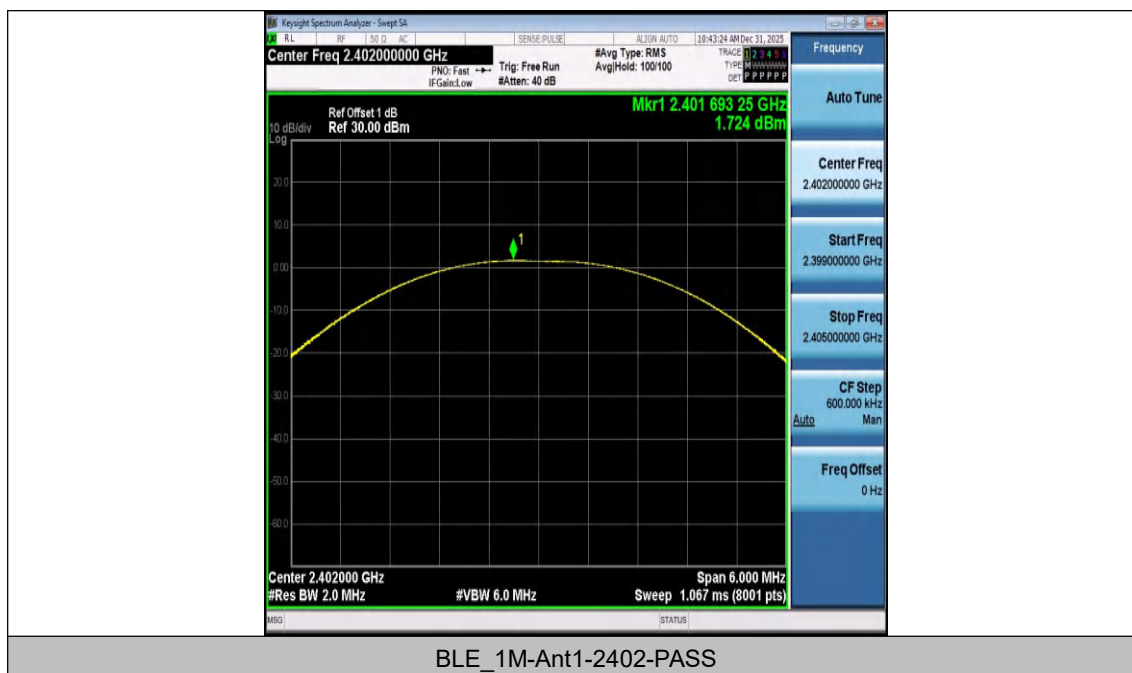
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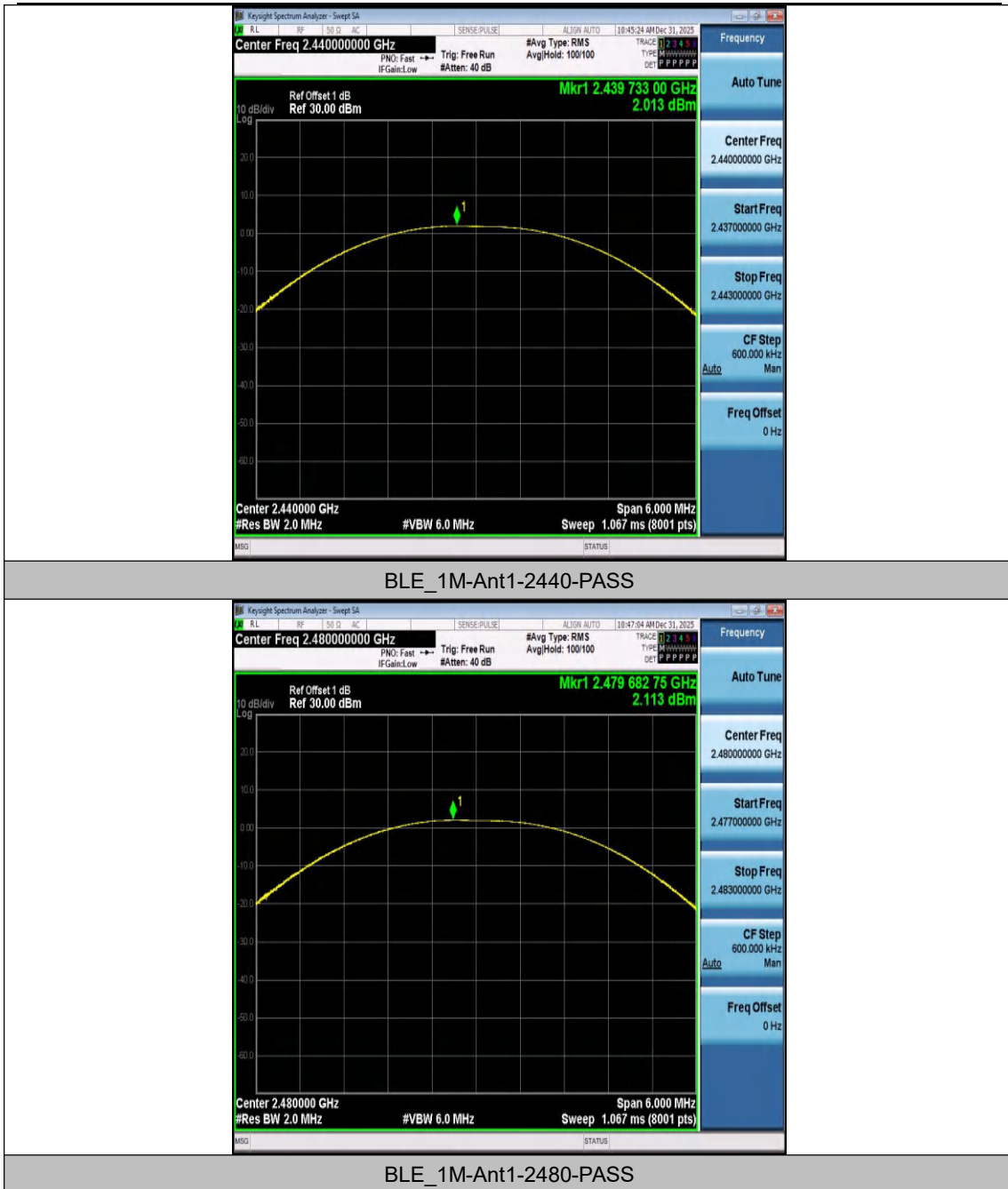
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.72	≤30	PASS
BLE_1M	Ant1	2440	2.01	≤30	PASS
BLE_1M	Ant1	2480	2.11	≤30	PASS
BLE_2M	Ant1	2402	1.95	≤30	PASS
BLE_2M	Ant1	2440	2.29	≤30	PASS
BLE_2M	Ant1	2480	2.43	≤30	PASS

Test Graphs Peak

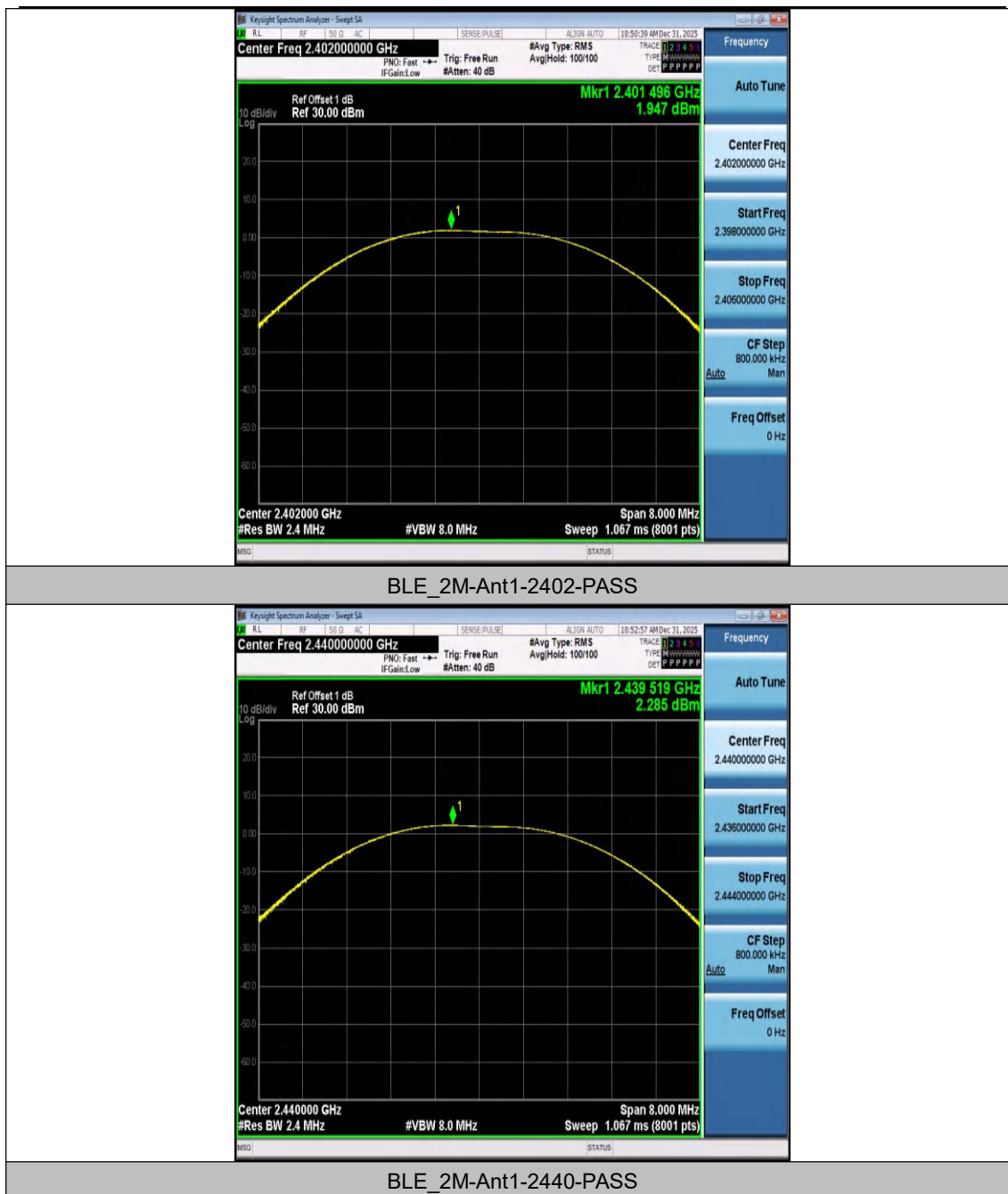




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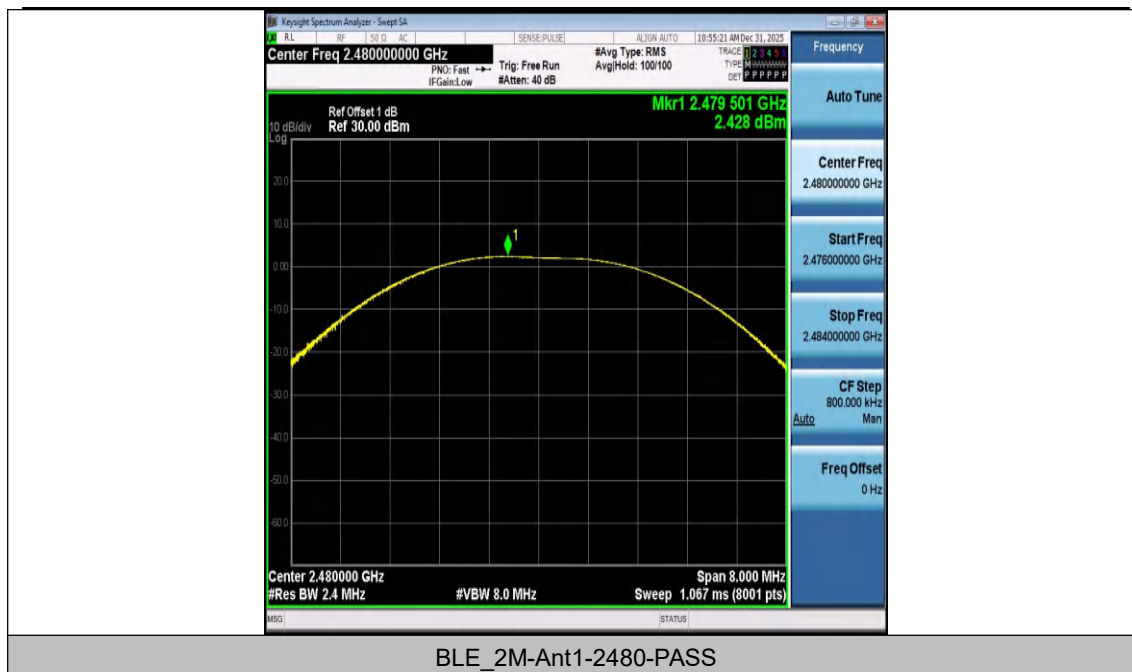
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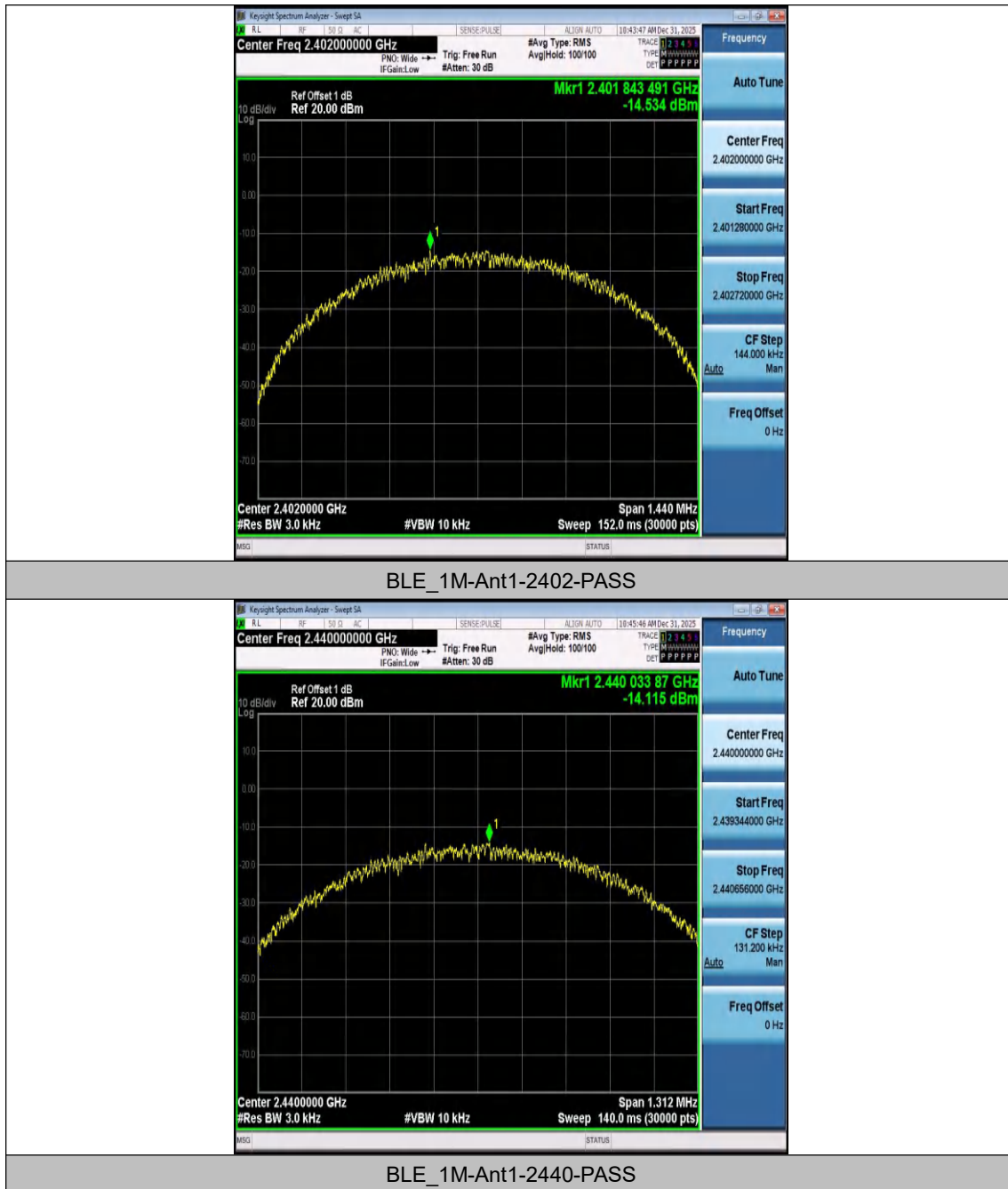
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.53	≤8.00	PASS
BLE_1M	Ant1	2440	-14.12	≤8.00	PASS
BLE_1M	Ant1	2480	-14.06	≤8.00	PASS
BLE_2M	Ant1	2402	-16.69	≤8.00	PASS
BLE_2M	Ant1	2440	-16.28	≤8.00	PASS
BLE_2M	Ant1	2480	-16.12	≤8.00	PASS

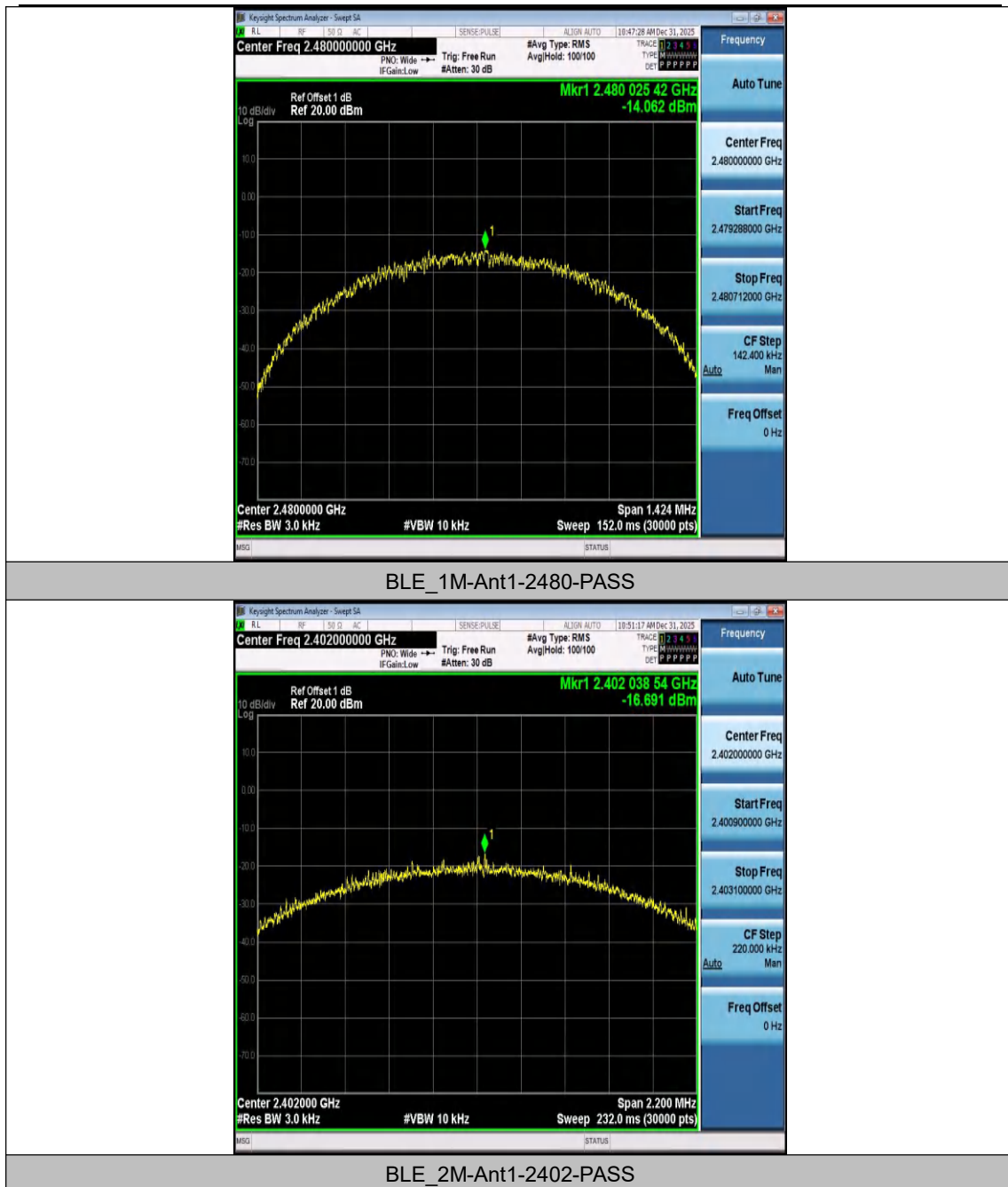
Test Graphs



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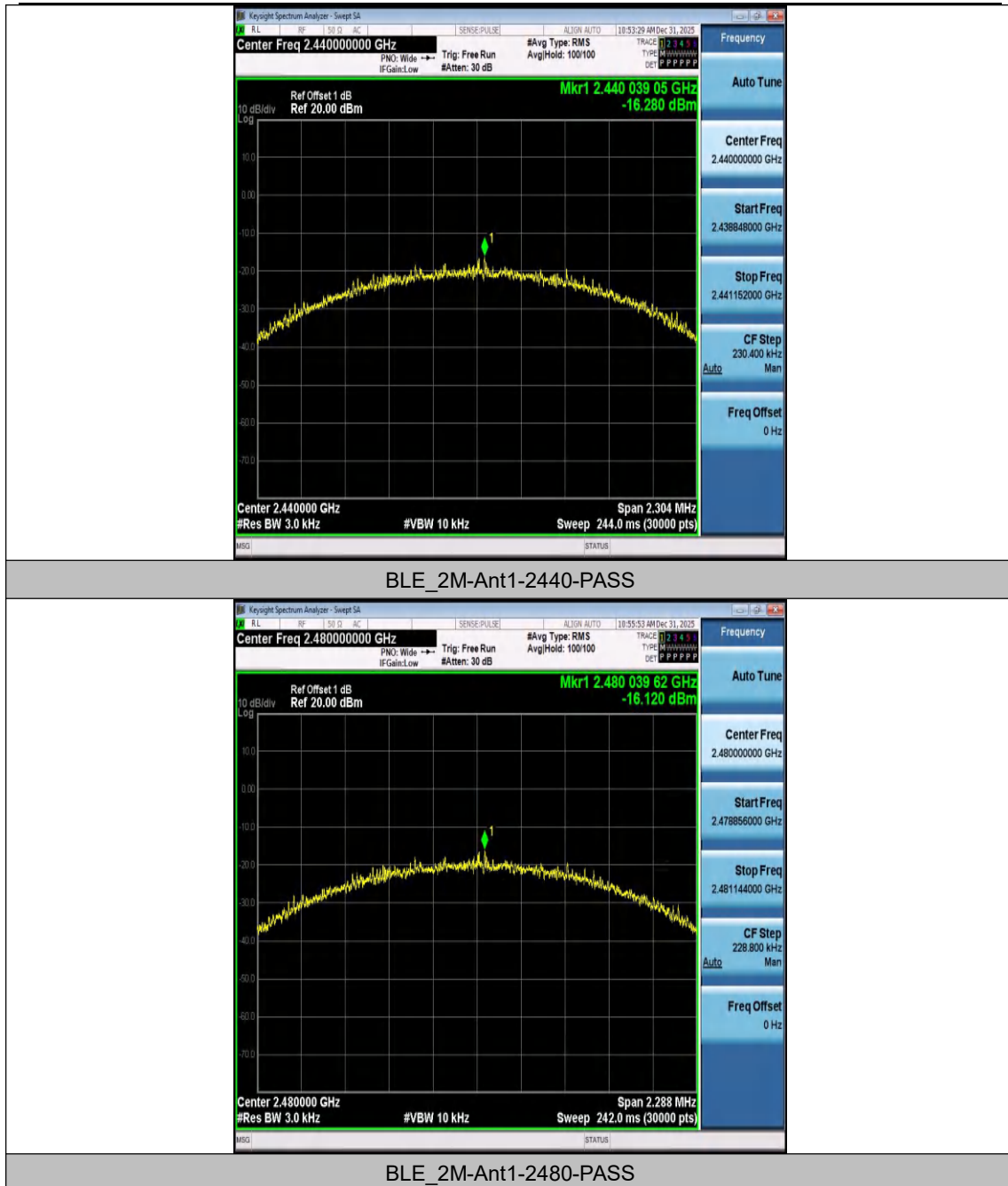
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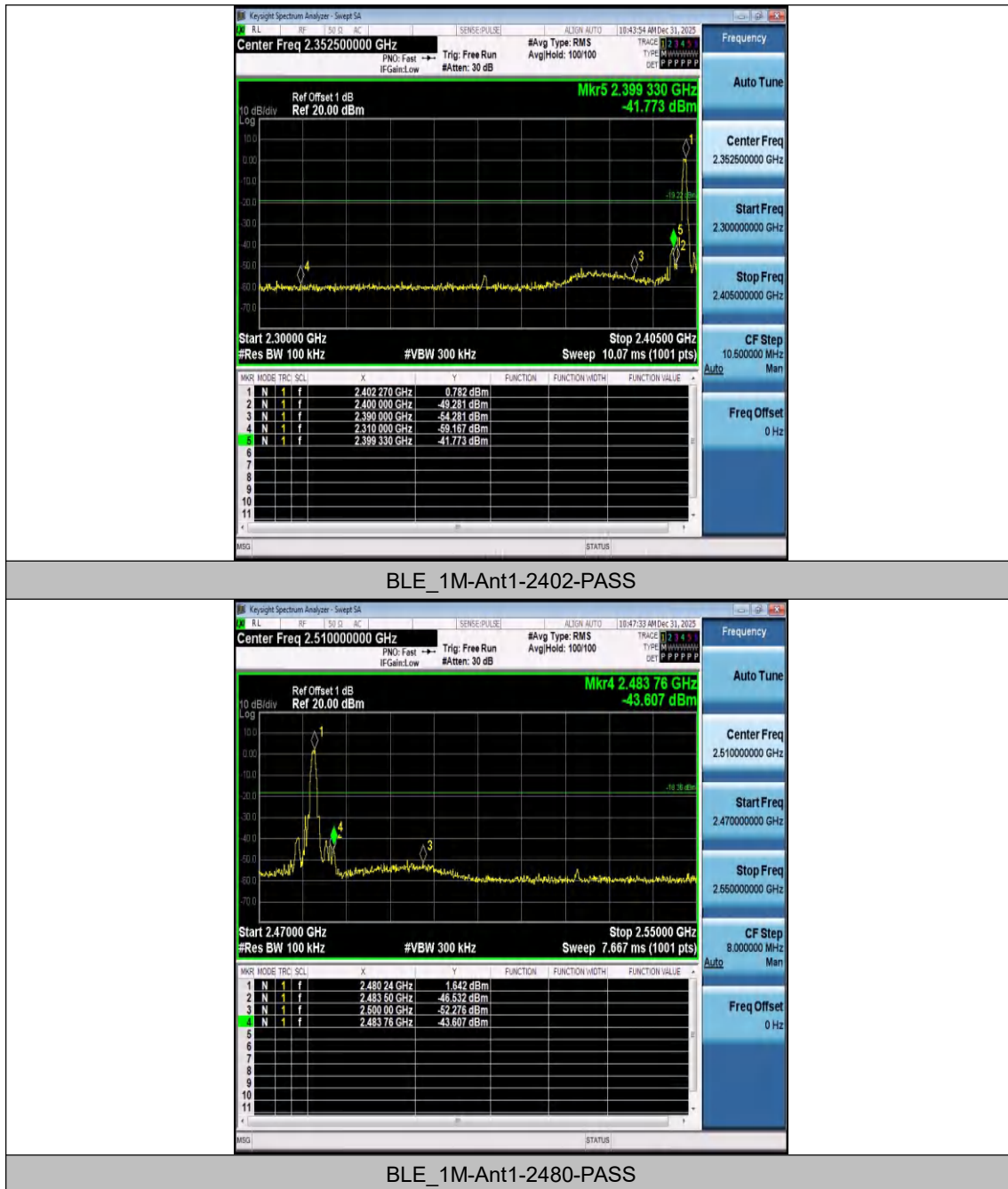
Appendix E: Band edge measurements

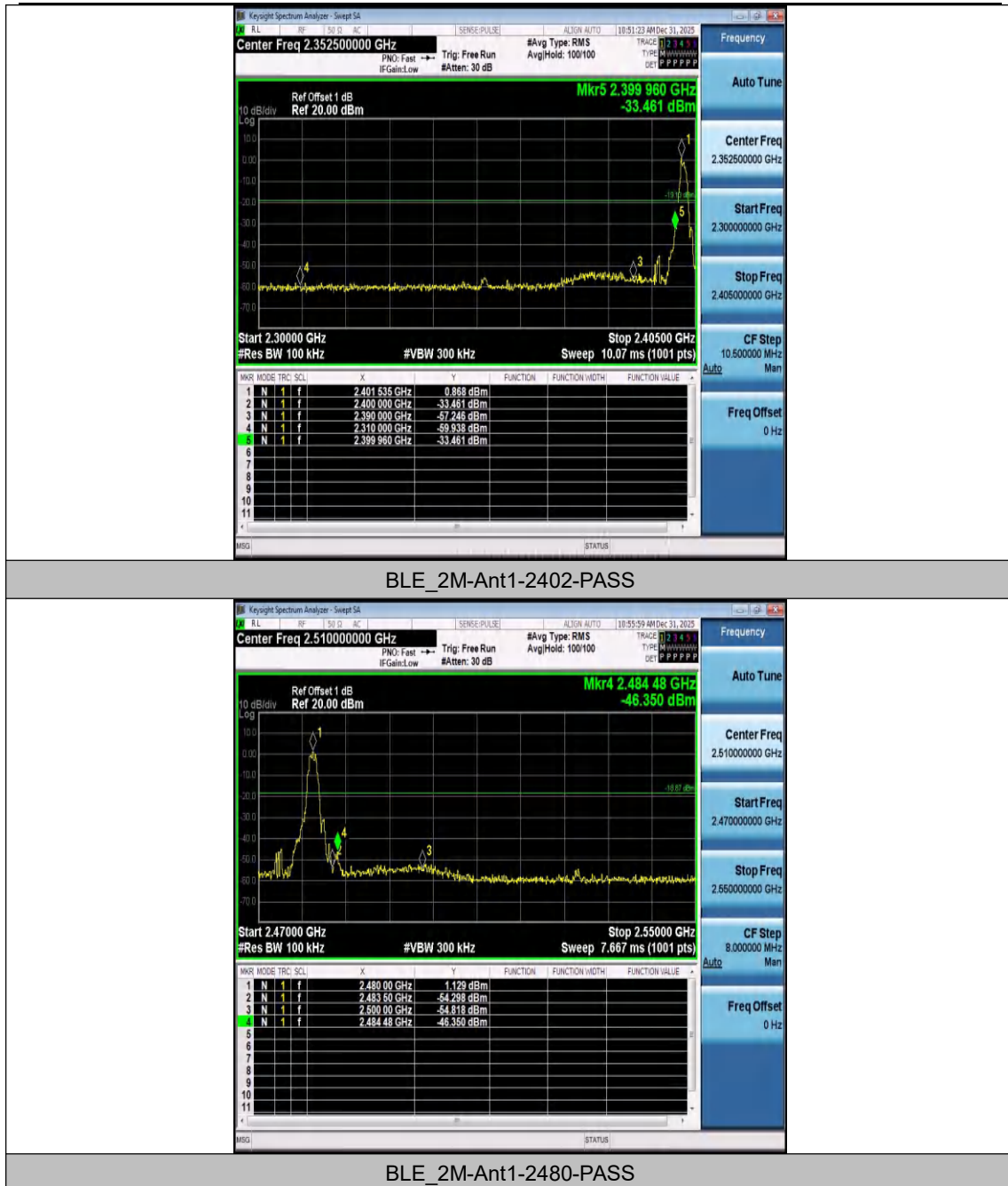
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.78	-41.77	≤-19.22	PASS
BLE_1M	Ant1	High	2480	1.64	-43.61	≤-18.36	PASS
BLE_2M	Ant1	Low	2402	0.87	-33.46	≤-19.13	PASS
BLE_2M	Ant1	High	2480	1.13	-46.35	≤-18.87	PASS

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

Test Graphs





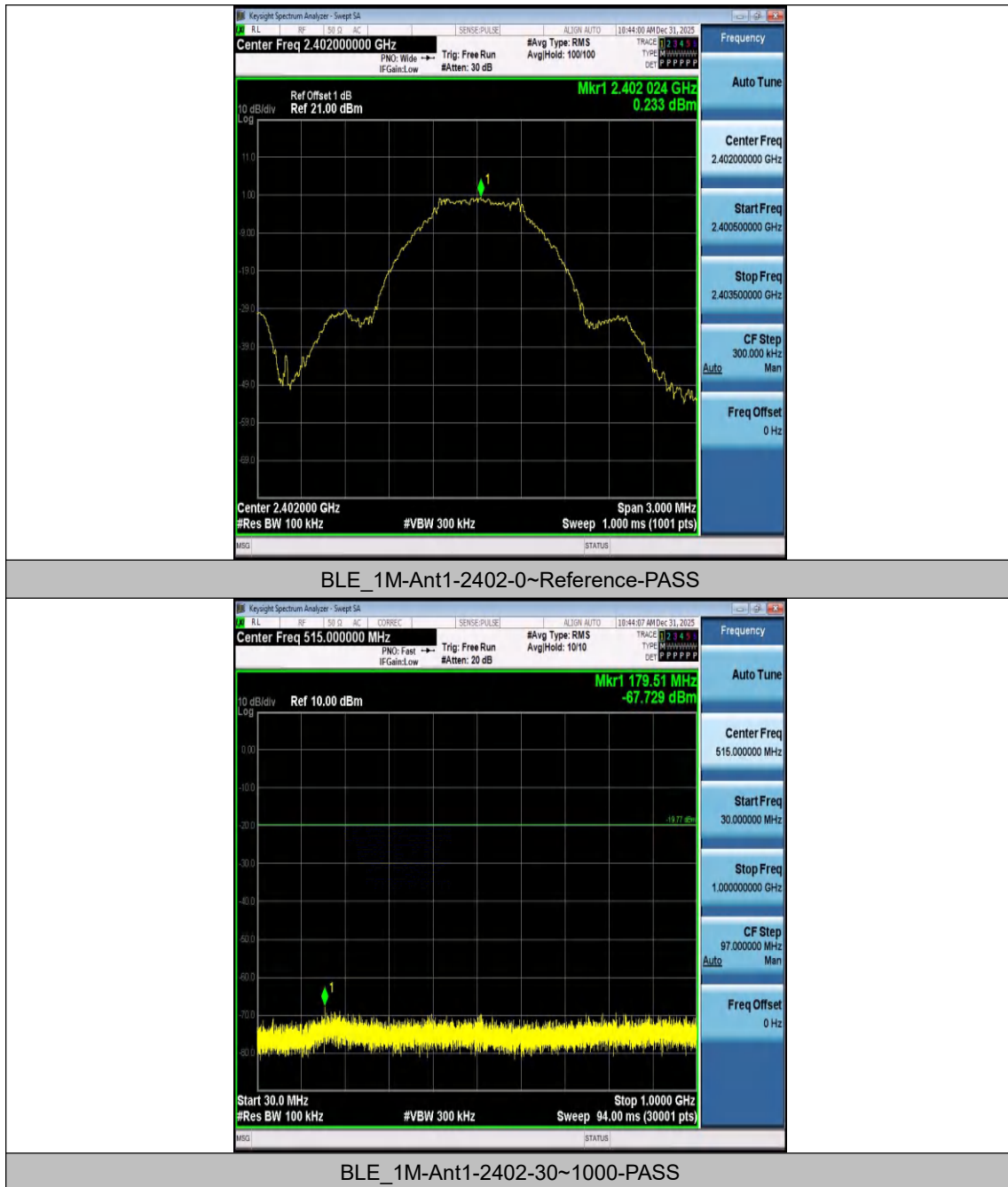
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.23	0.23	---	PASS
BLE_1M	Ant1	2402	30~1000	0.23	-67.73	≤-19.77	PASS
BLE_1M	Ant1	2402	1000~26500	0.23	-35.83	≤-19.77	PASS
BLE_1M	Ant1	2440	0~Reference	0.92	0.92	---	PASS
BLE_1M	Ant1	2440	30~1000	0.92	-67.69	≤-19.08	PASS
BLE_1M	Ant1	2440	1000~26500	0.92	-35.7	≤-19.08	PASS
BLE_1M	Ant1	2480	0~Reference	1.09	1.09	---	PASS
BLE_1M	Ant1	2480	30~1000	1.09	-68.18	≤-18.91	PASS
BLE_1M	Ant1	2480	1000~26500	1.09	-35.88	≤-18.91	PASS
BLE_2M	Ant1	2402	0~Reference	0.84	0.84	---	PASS
BLE_2M	Ant1	2402	30~1000	0.84	-68.82	≤-19.16	PASS
BLE_2M	Ant1	2402	1000~26500	0.84	-35.9	≤-19.16	PASS
BLE_2M	Ant1	2440	0~Reference	1.57	1.57	---	PASS
BLE_2M	Ant1	2440	30~1000	1.57	-68.67	≤-18.43	PASS
BLE_2M	Ant1	2440	1000~26500	1.57	-34.97	≤-18.43	PASS
BLE_2M	Ant1	2480	0~Reference	0.35	0.35	---	PASS
BLE_2M	Ant1	2480	30~1000	0.35	-68.47	≤-19.65	PASS
BLE_2M	Ant1	2480	1000~26500	0.35	-36.08	≤-19.65	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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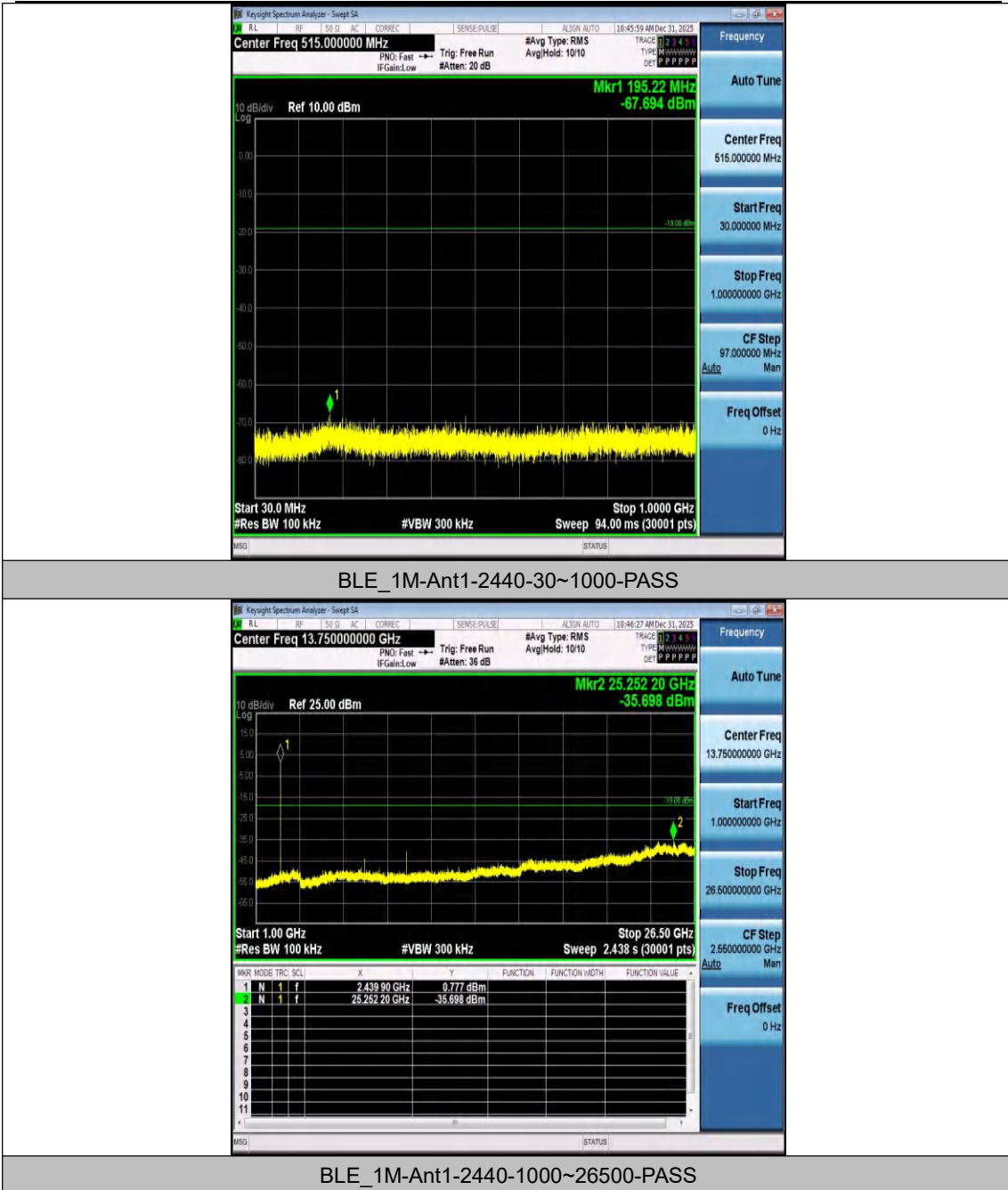
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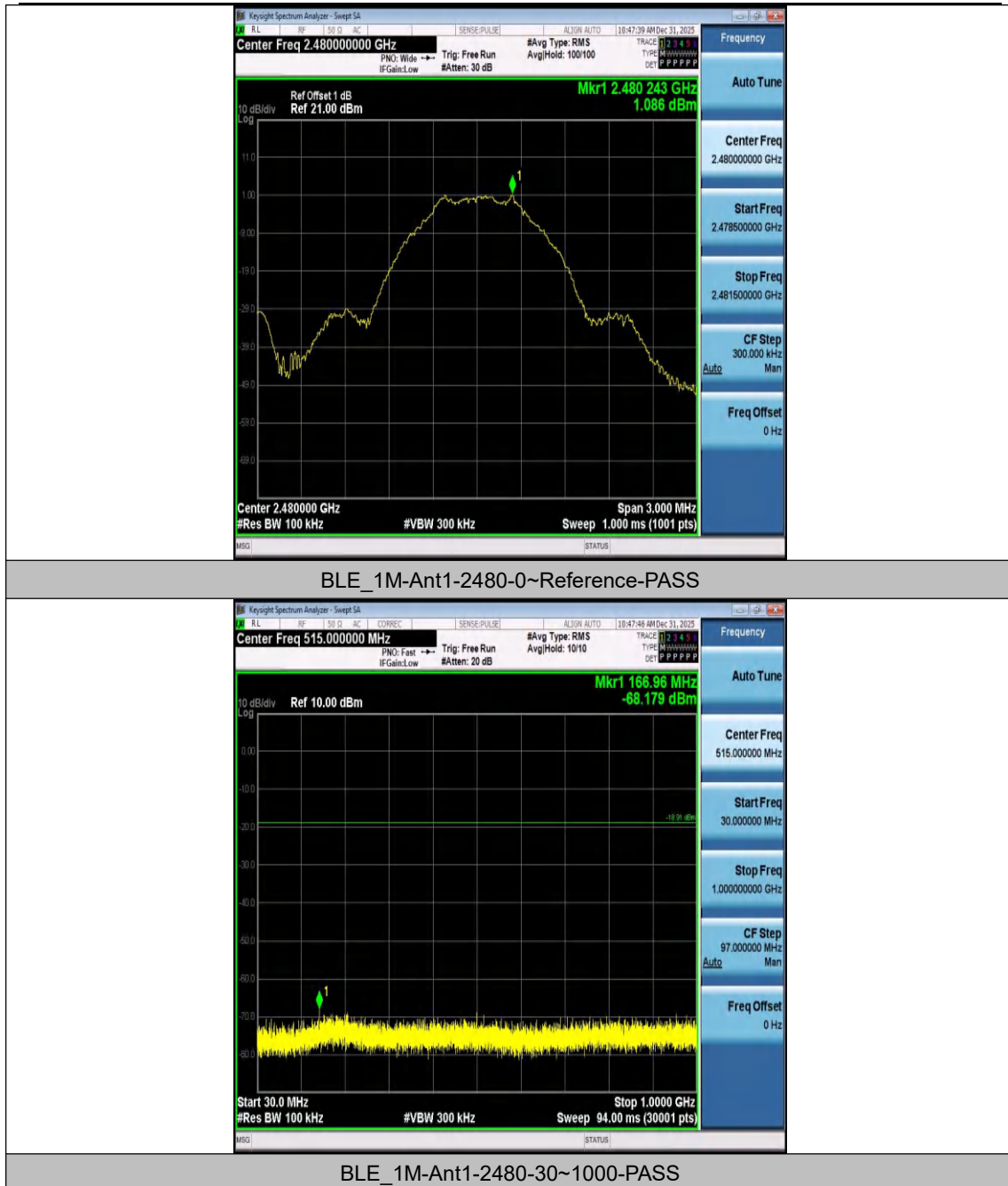
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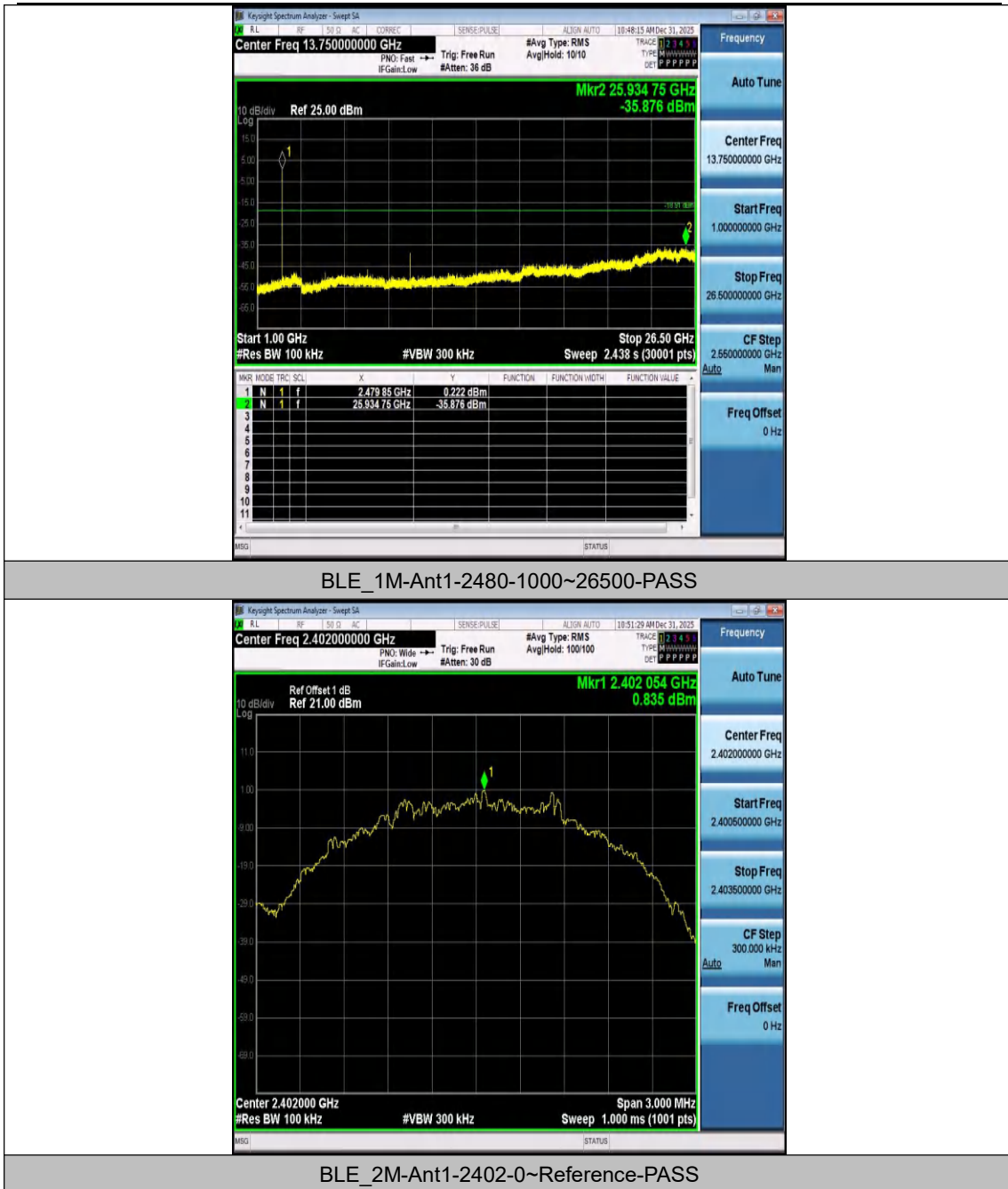
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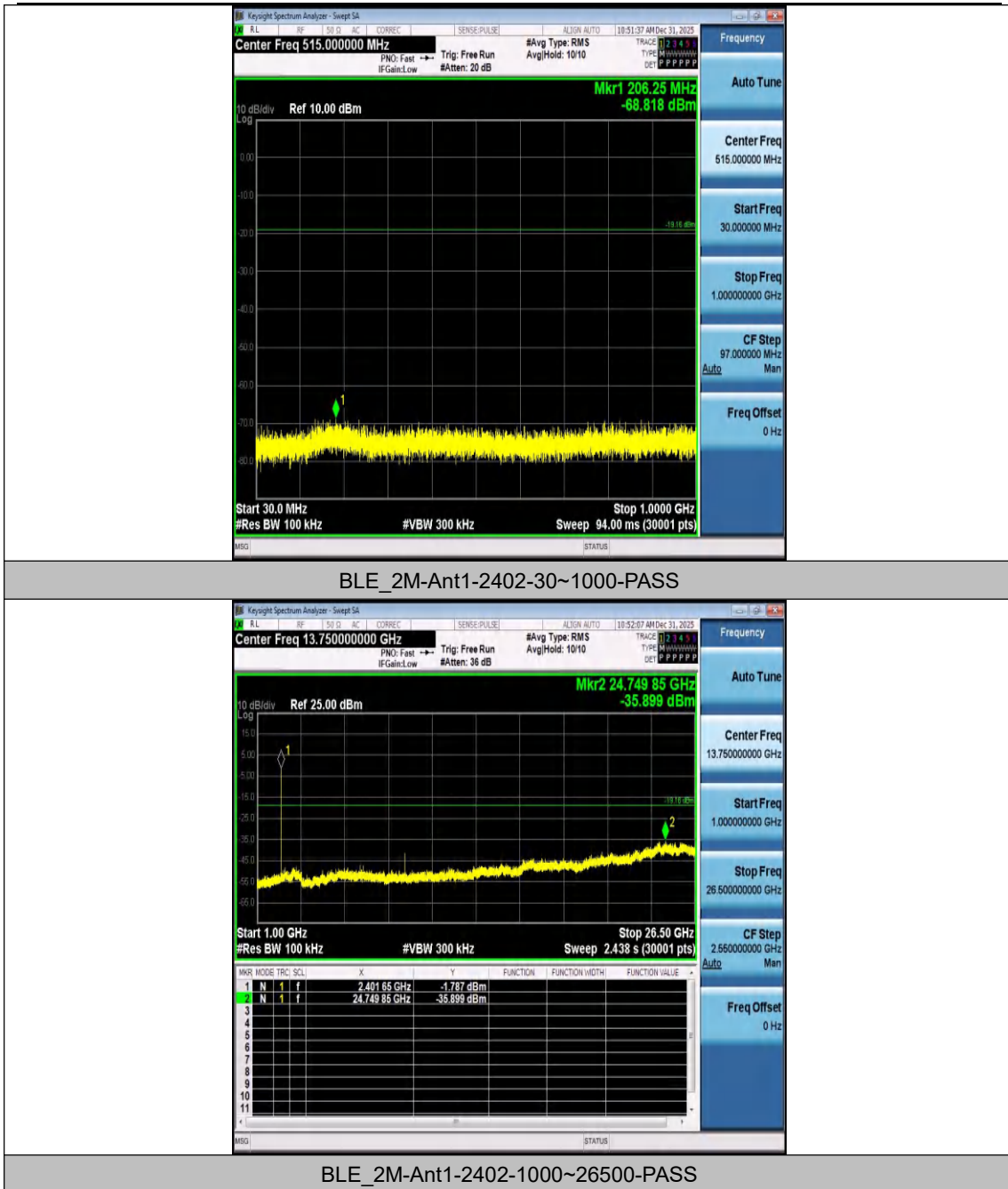
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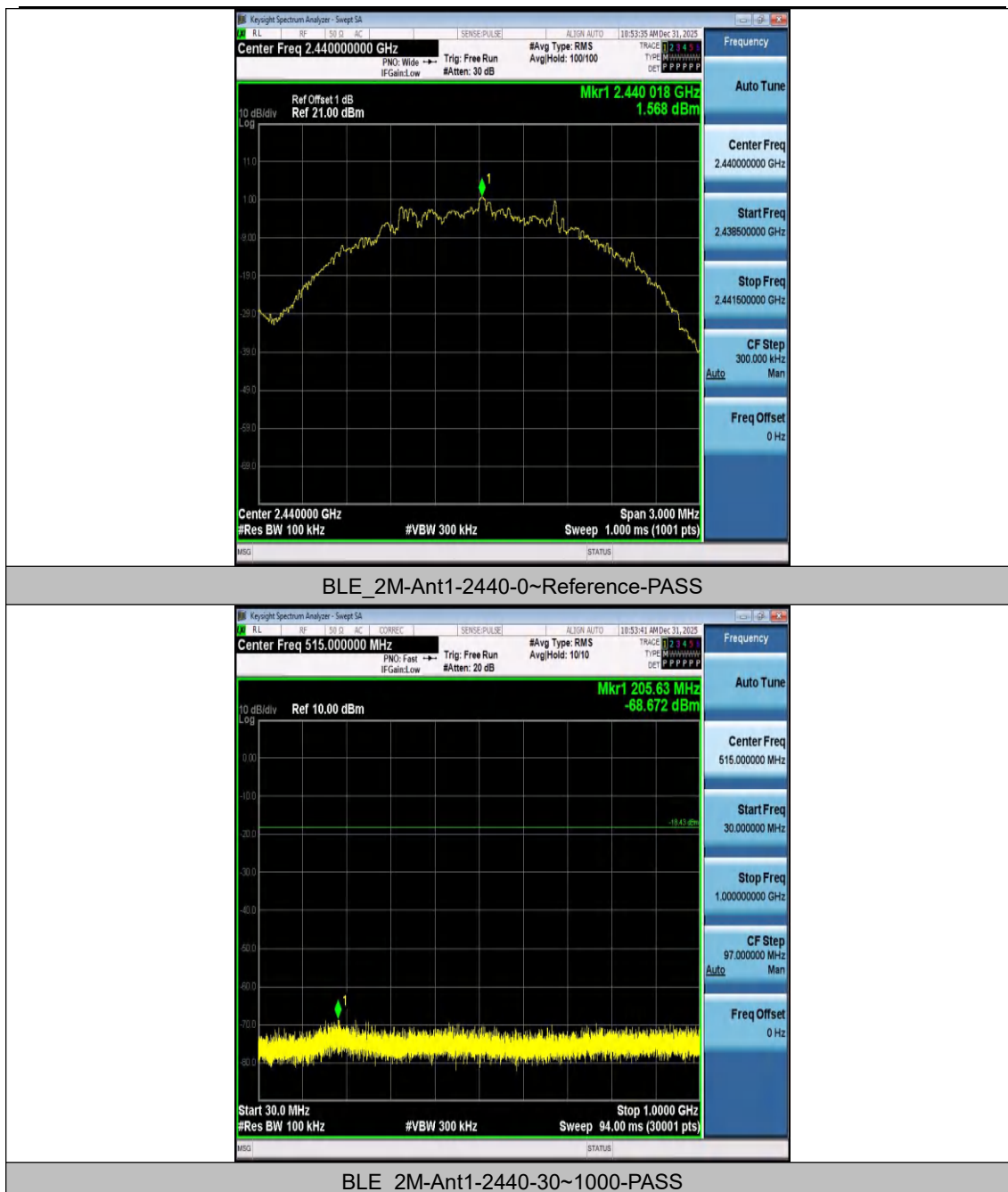
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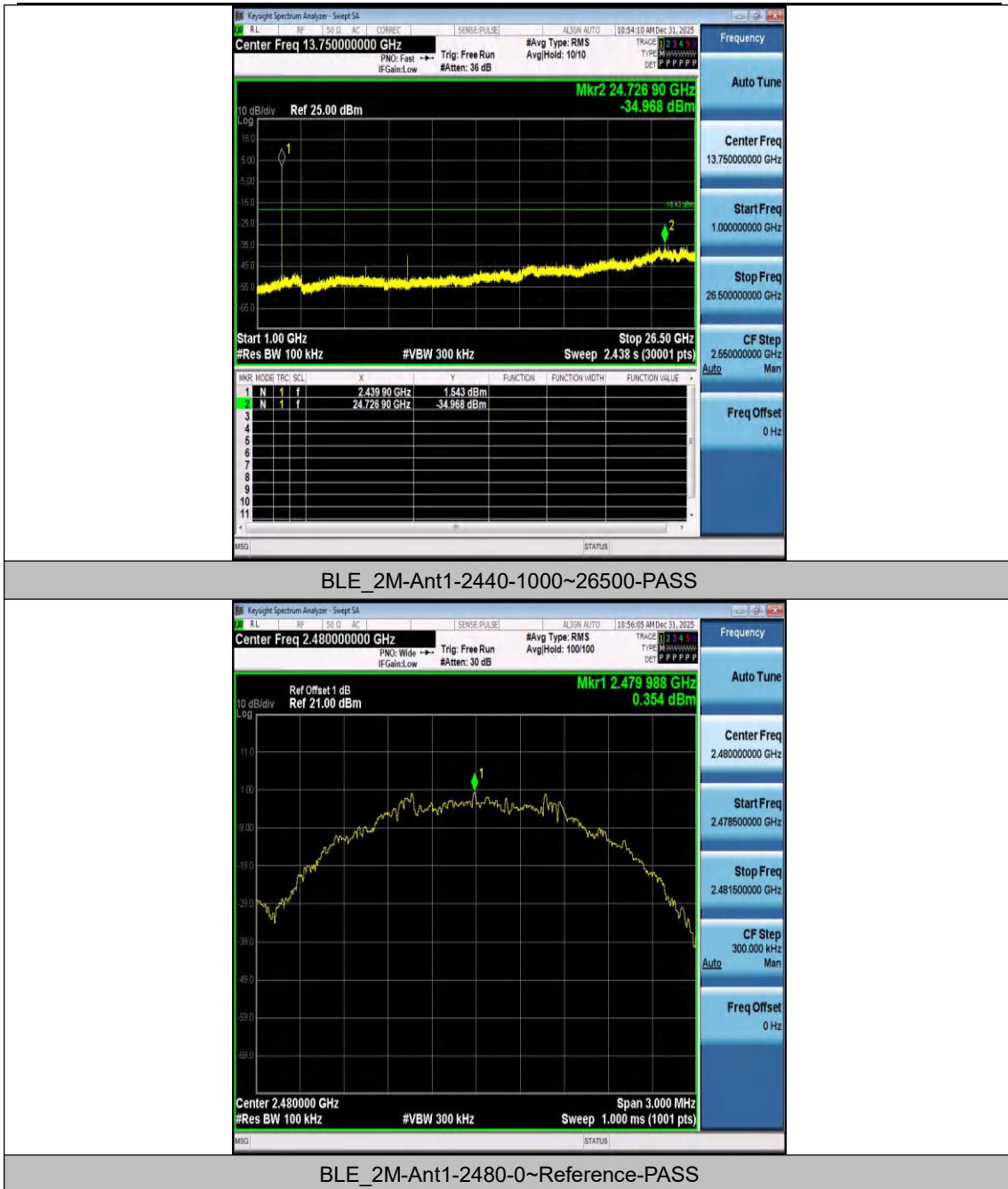
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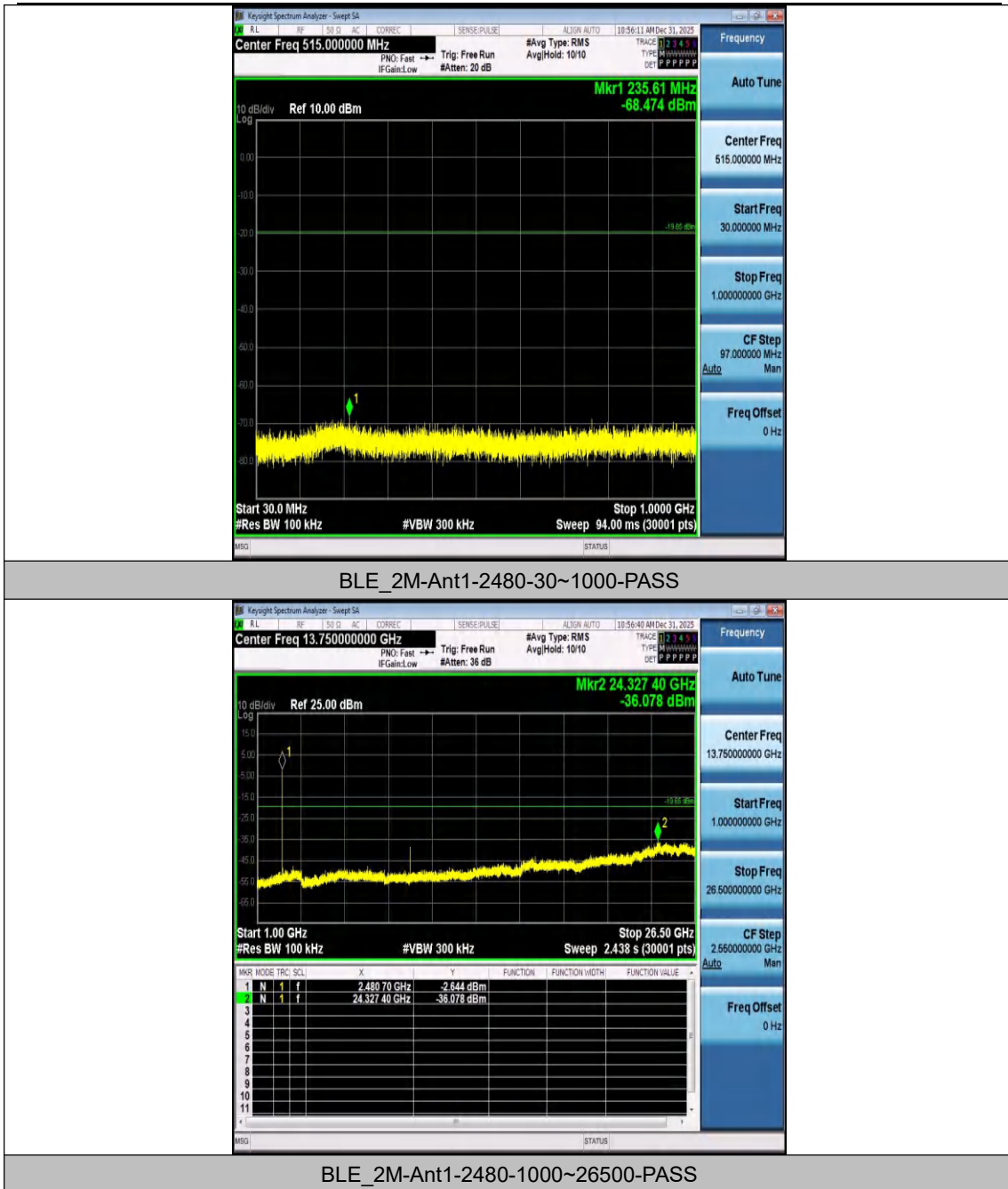
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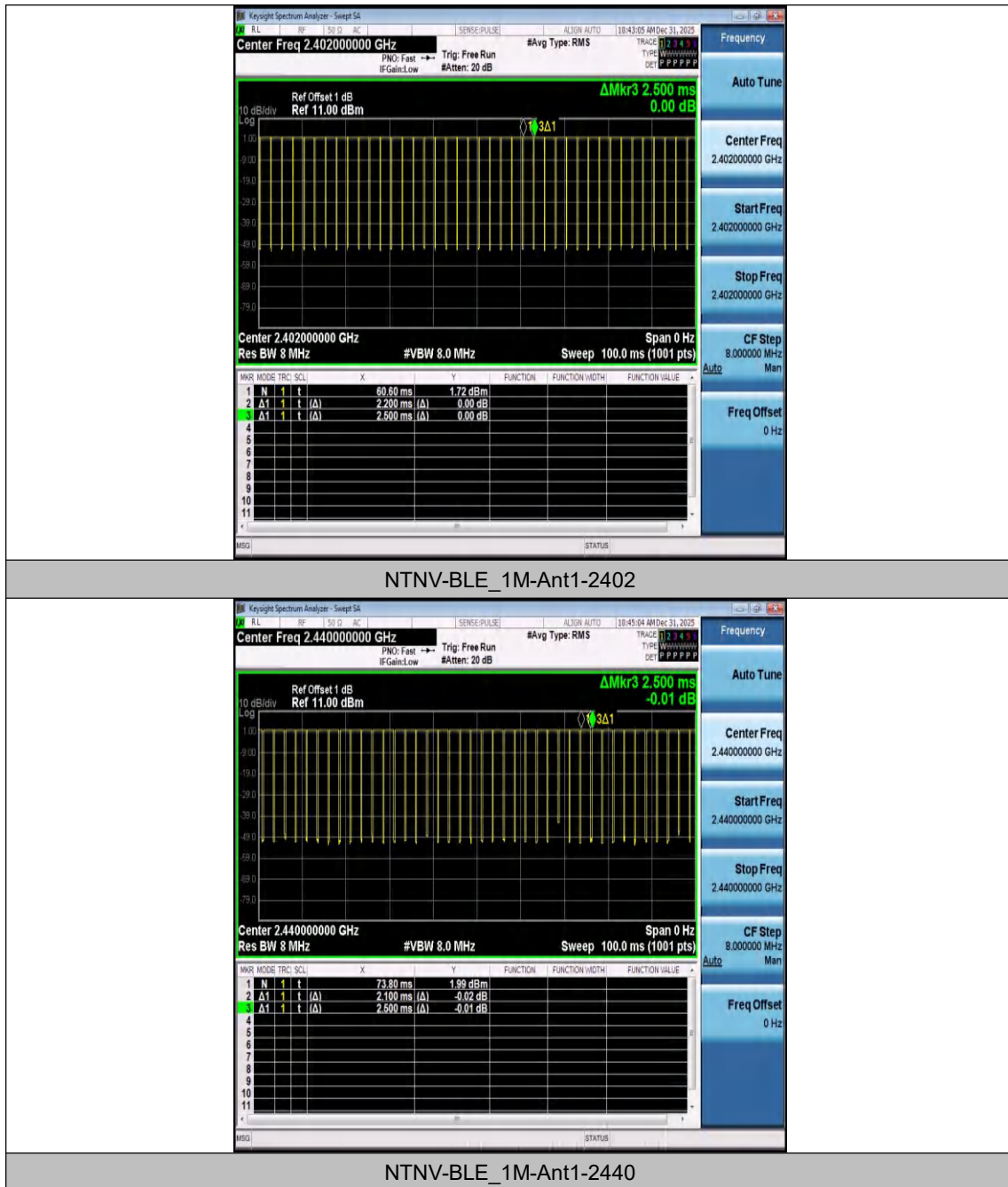
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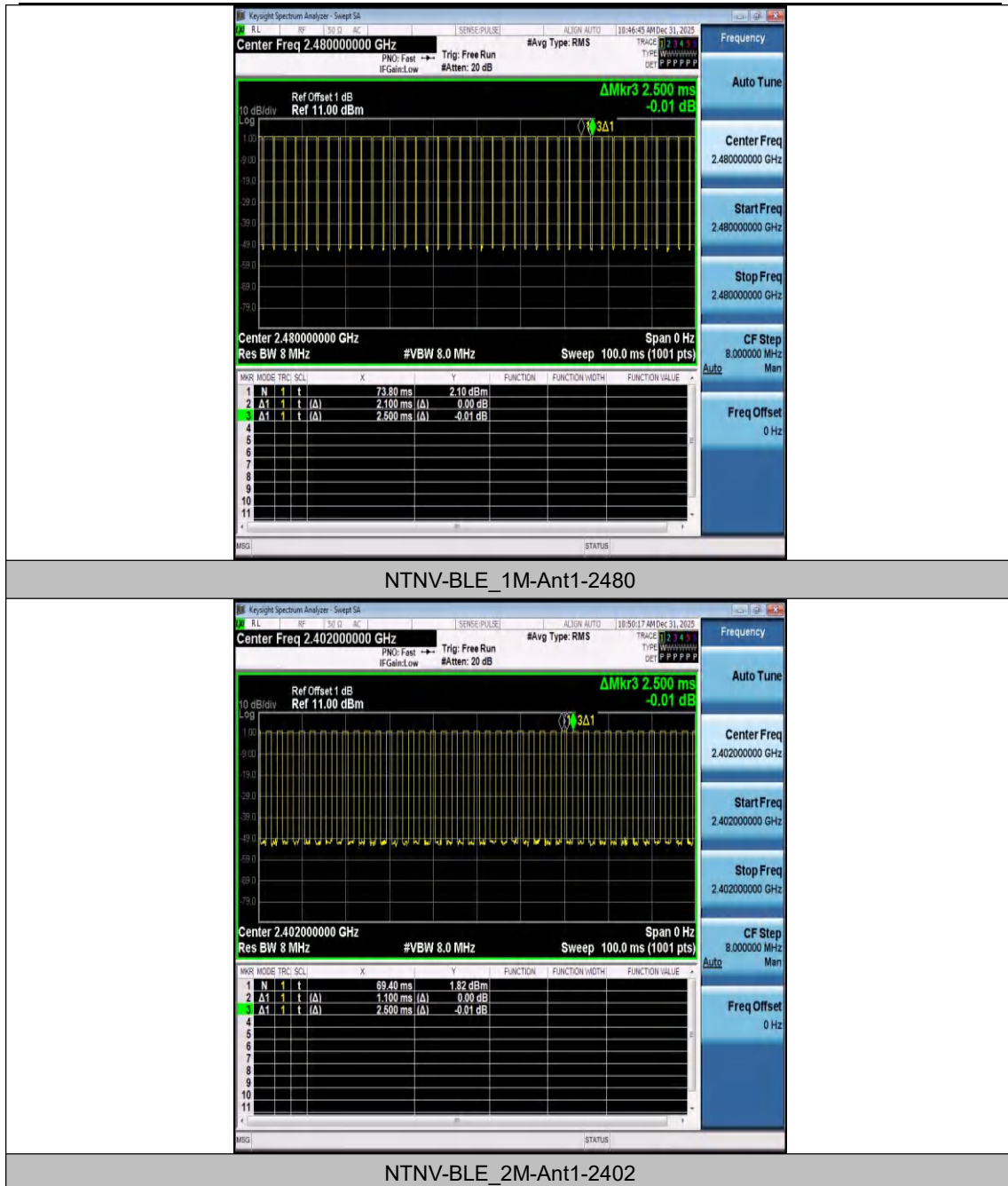
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.20	2.50	88.00	0.56
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.10	2.50	44.00	3.57
BLE_2M	Ant1	2440	1.10	2.50	44.00	3.57
BLE_2M	Ant1	2480	1.10	2.50	44.00	3.57

Test Graphs

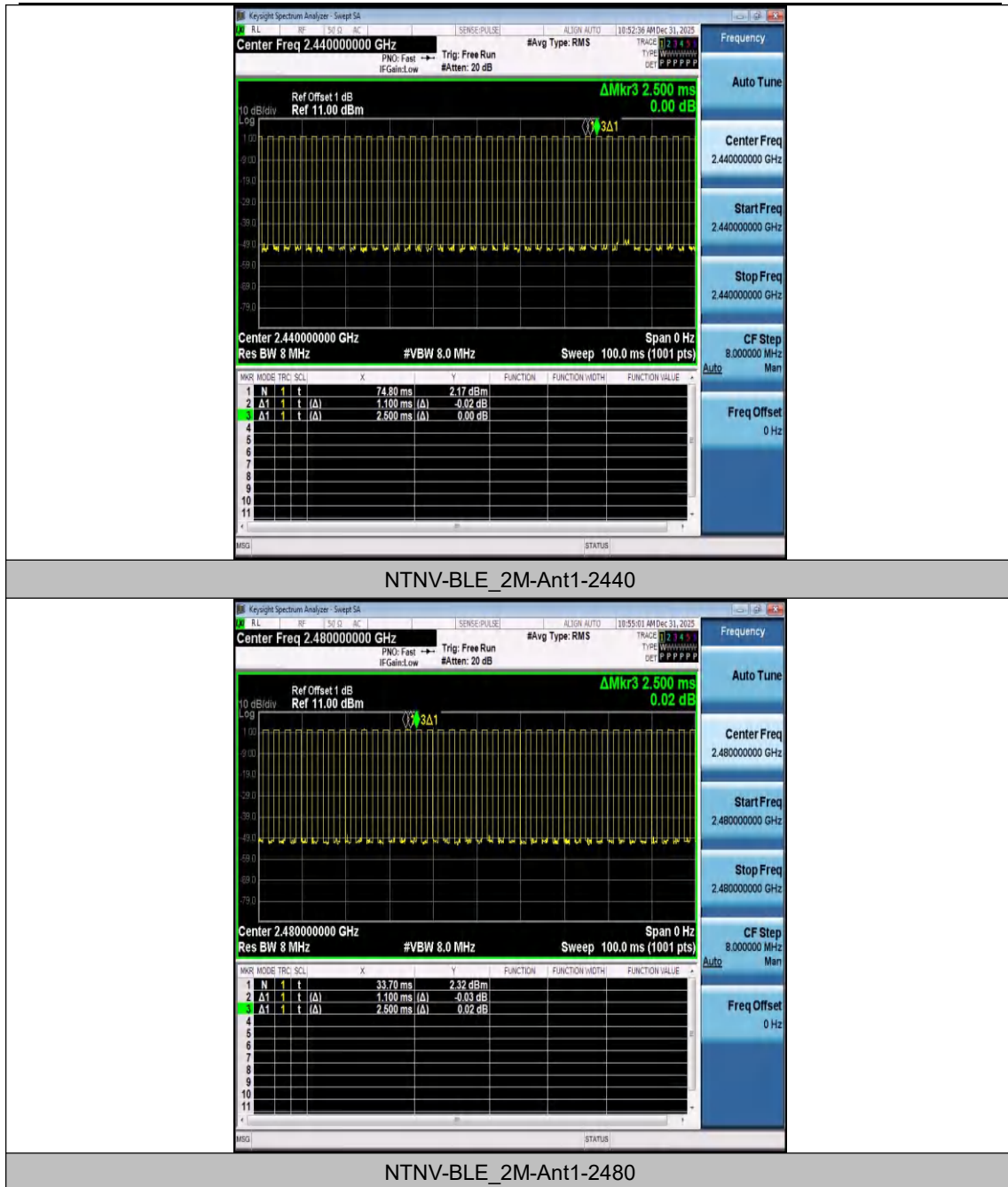




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