

Appendix Test Data

Report No.:	1812C50469812502	Test Sample No.:	1-2-2
Start Test Date:	2025-09-18	Finish Test Date:	2025-09-18
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	24.7°C	Relative Humidity:	60%
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	0.708	2401.640	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.664	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.716	2479.644	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.152	2401.436	2402.588	0.5	PASS
BLE_2M	Ant1	2440	1.168	2439.424	2440.592	0.5	PASS
BLE_2M	Ant1	2480	1.160	2479.432	2480.592	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	1.0581	2401.4712	2402.5293	---	---
BLE_1M	Ant1	2440	1.0505	2439.4805	2440.5310	---	---
BLE_1M	Ant1	2480	1.0498	2479.4747	2480.5245	---	---
BLE_2M	Ant1	2402	2.0636	2400.9758	2403.0394	---	---
BLE_2M	Ant1	2440	2.0742	2438.9777	2441.0519	---	---
BLE_2M	Ant1	2480	2.0676	2478.9756	2481.0432	---	---

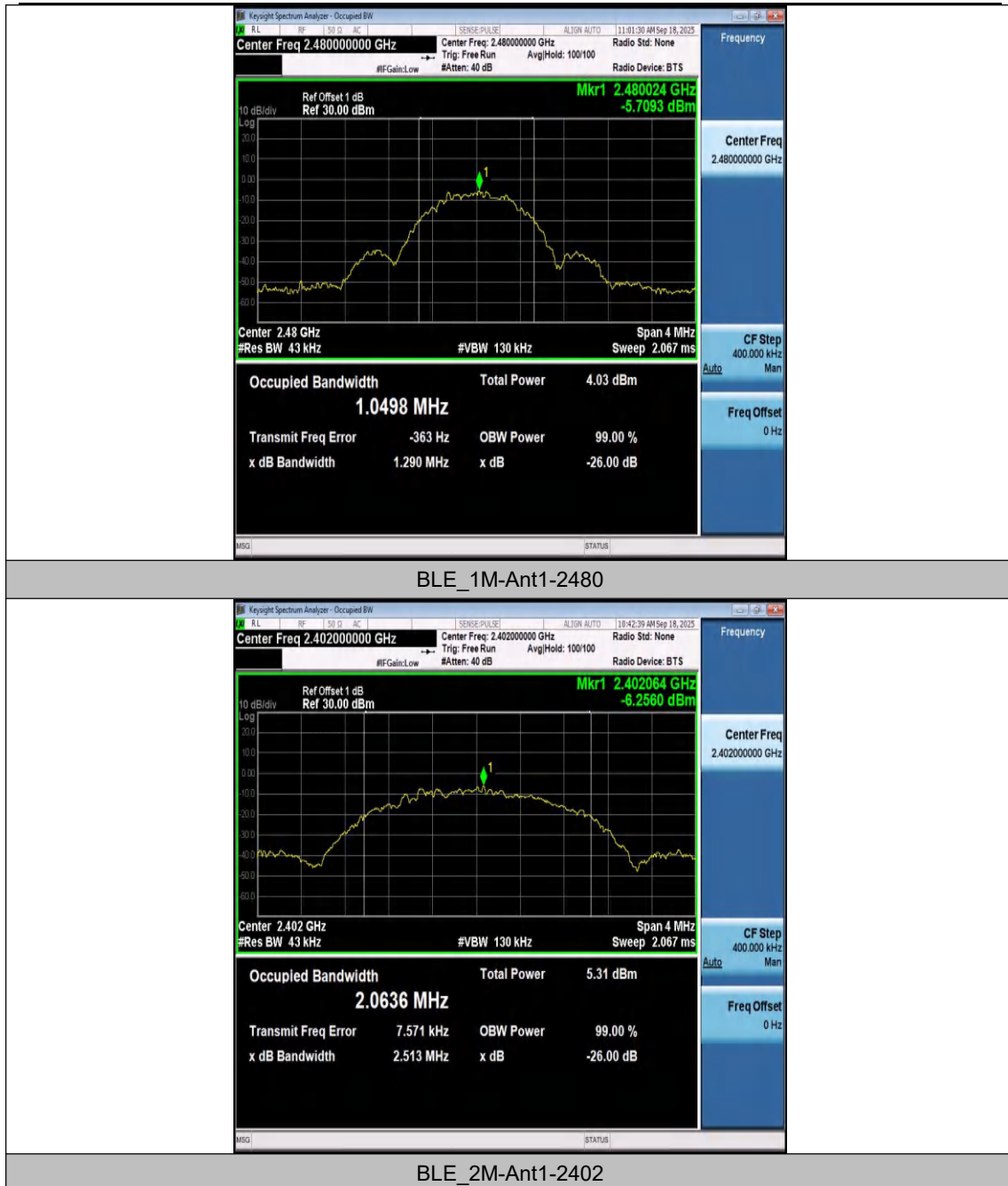
Test Graphs



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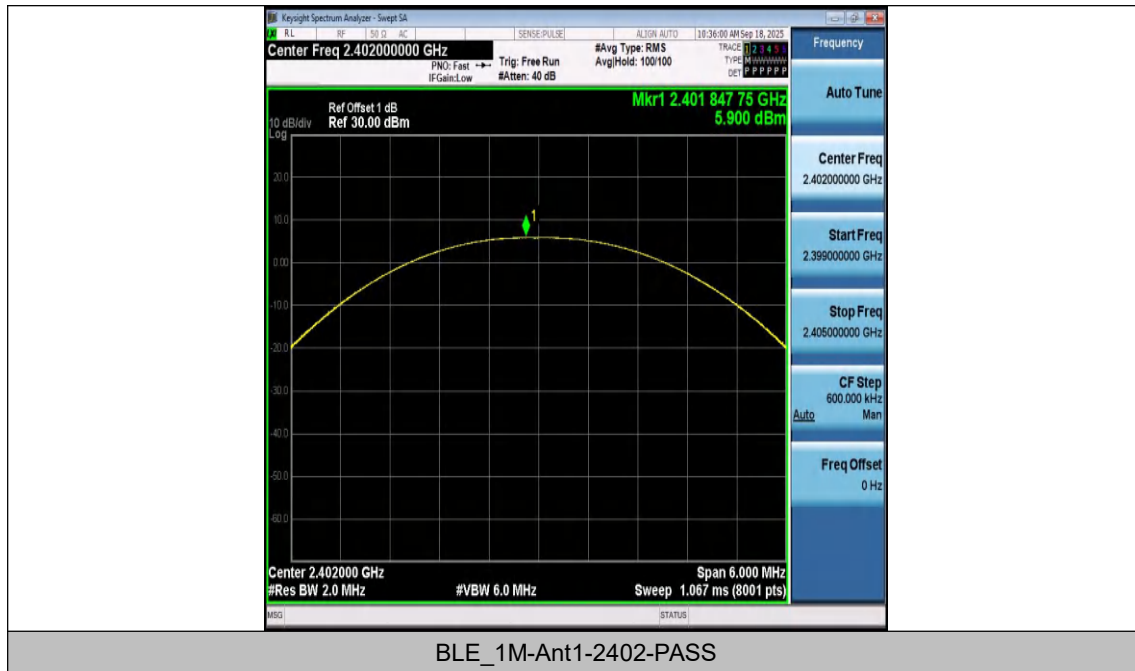
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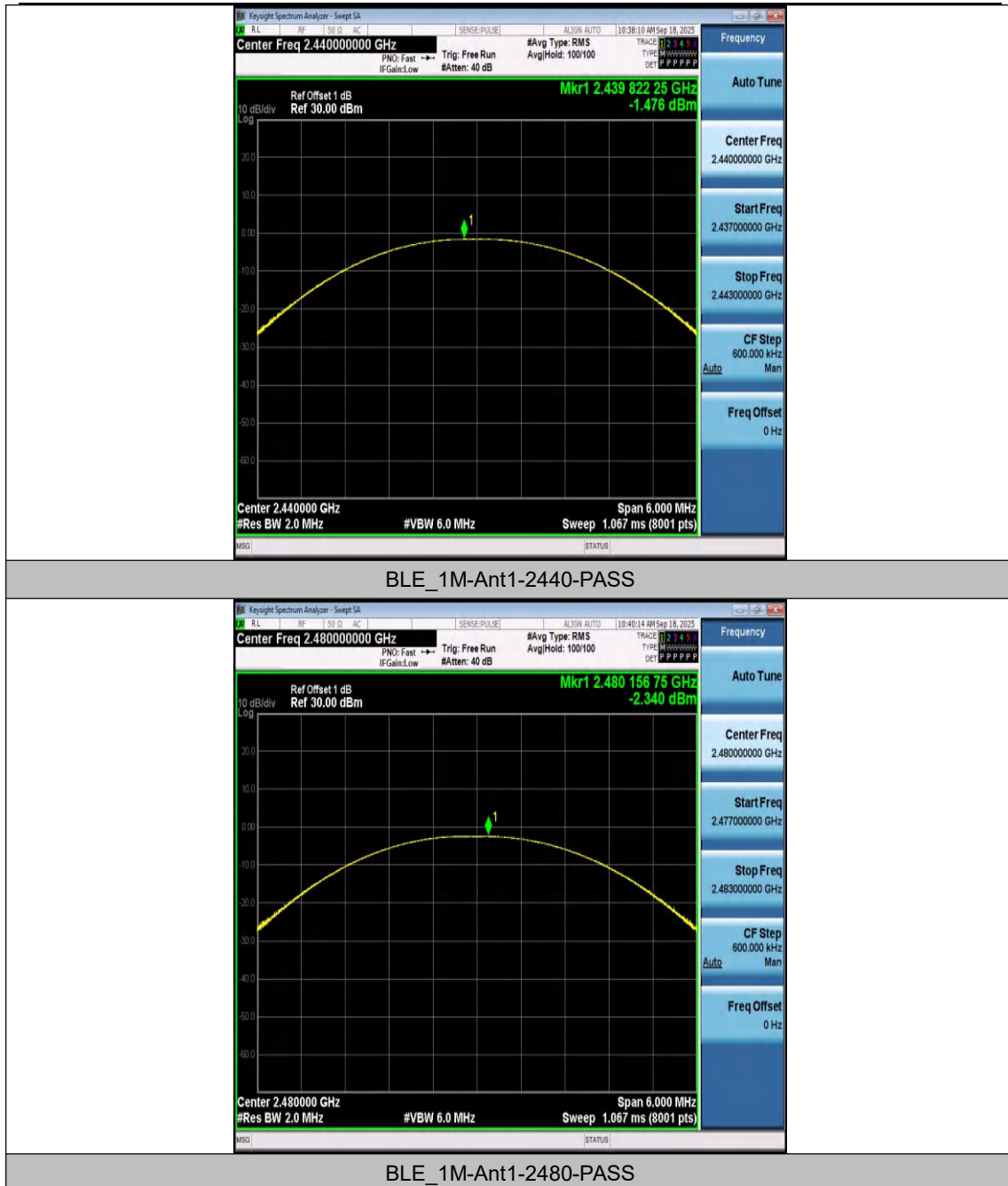
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.90	≤30	PASS
BLE_1M	Ant1	2440	-1.48	≤30	PASS
BLE_1M	Ant1	2480	-2.34	≤30	PASS
BLE_2M	Ant1	2402	-0.76	≤30	PASS
BLE_2M	Ant1	2440	-1.54	≤30	PASS
BLE_2M	Ant1	2480	-2.41	≤30	PASS

Test Graphs Peak

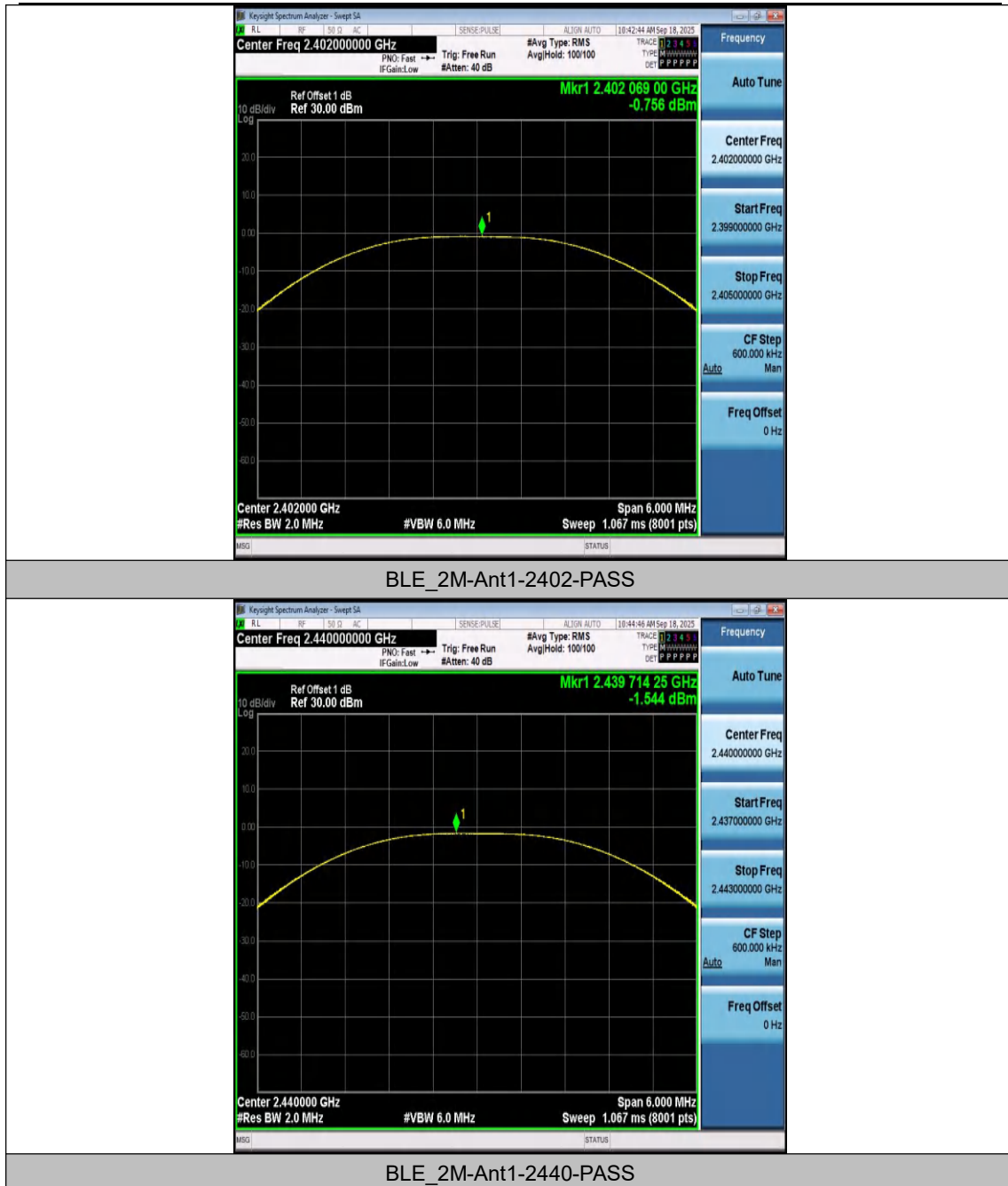




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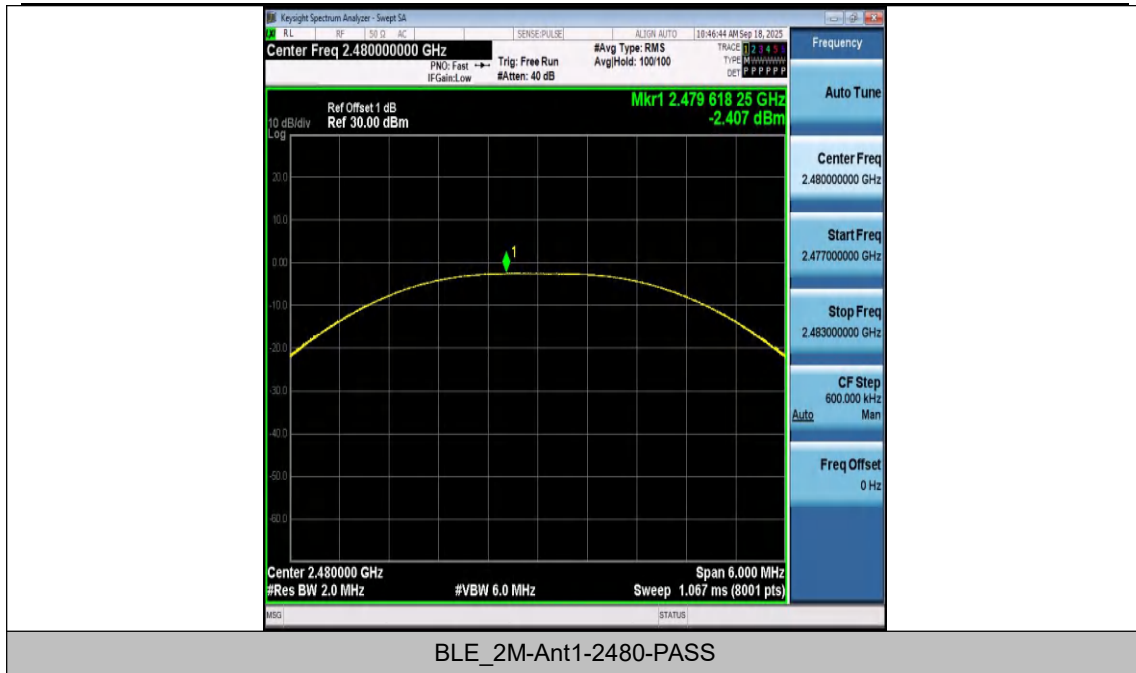
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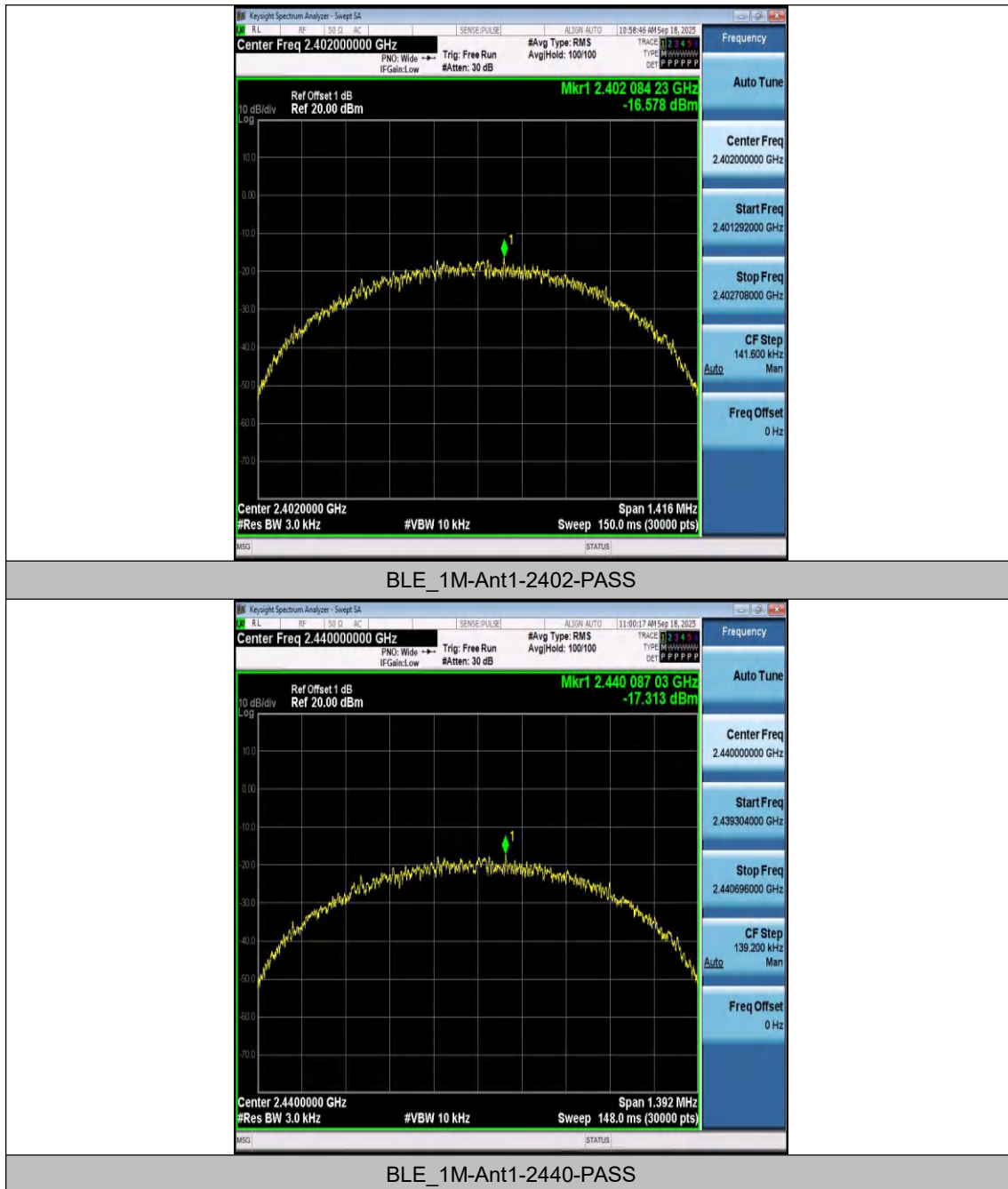
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.58	≤8.00	PASS
BLE_1M	Ant1	2440	-17.31	≤8.00	PASS
BLE_1M	Ant1	2480	-18.13	≤8.00	PASS
BLE_2M	Ant1	2402	-19.78	≤8.00	PASS
BLE_2M	Ant1	2440	-20.60	≤8.00	PASS
BLE_2M	Ant1	2480	-21.51	≤8.00	PASS

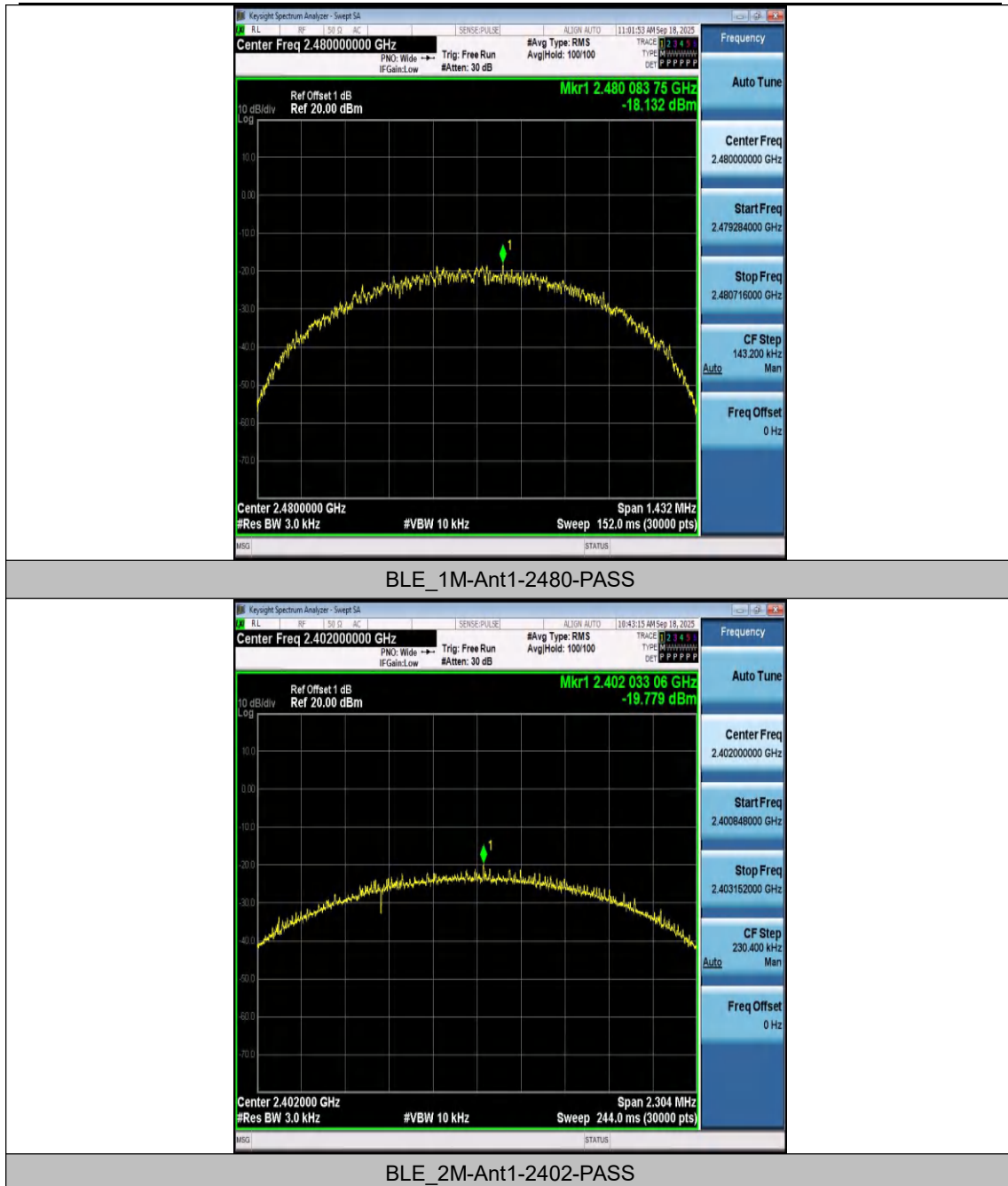
Test Graphs



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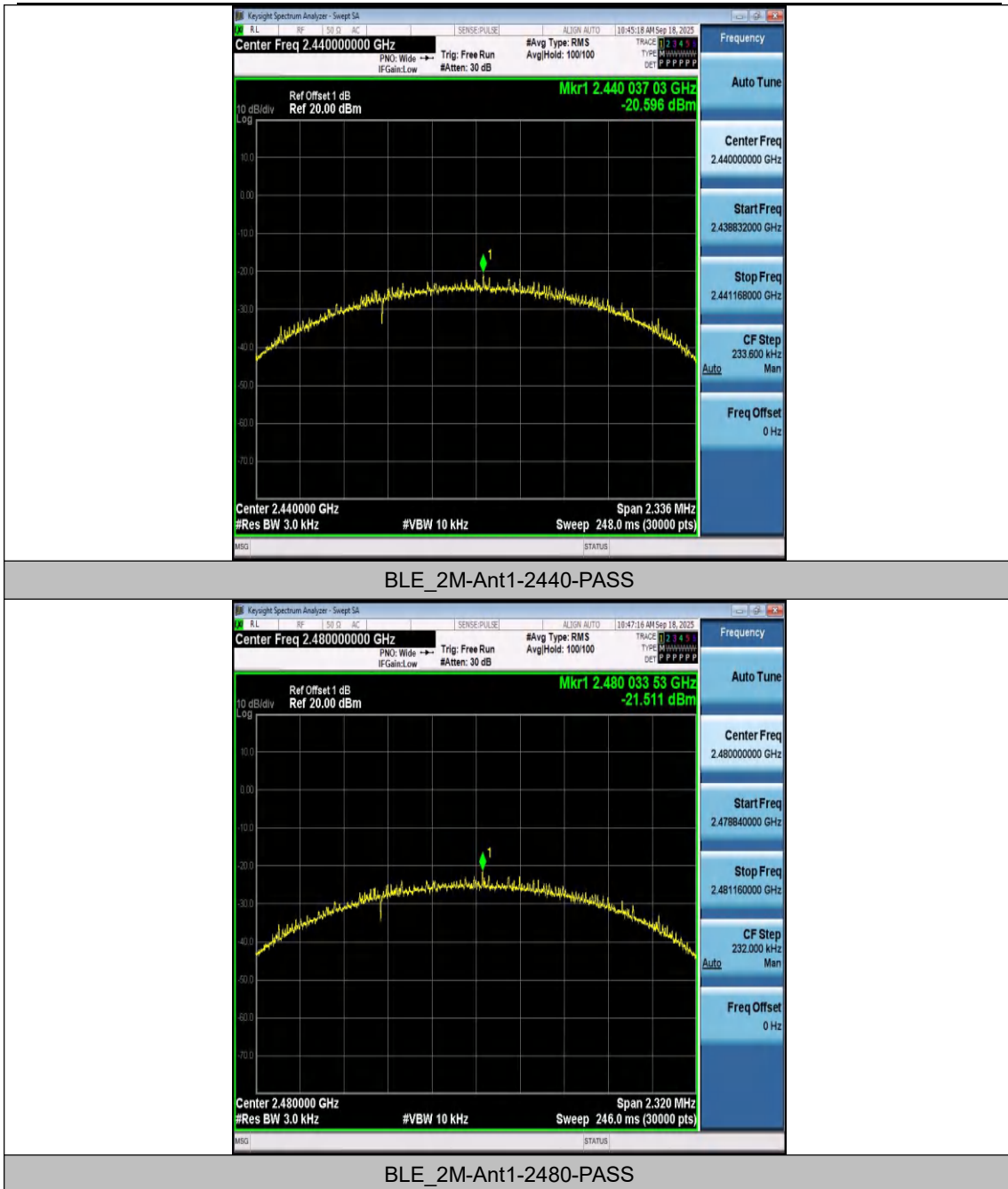
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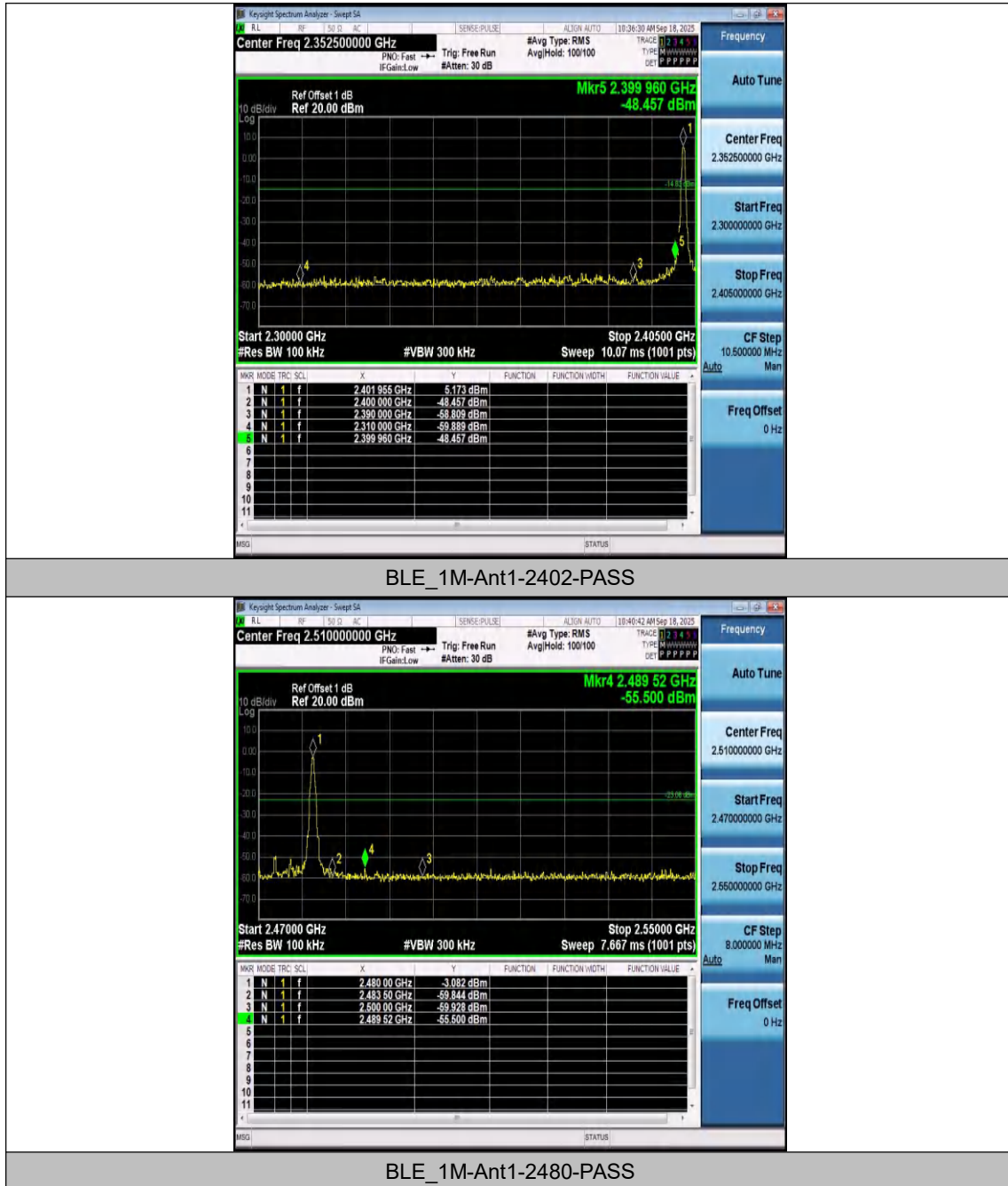
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.17	-48.46	≤-14.83	PASS
BLE_1M	Ant1	High	2480	-3.08	-55.5	≤-23.08	PASS
BLE_2M	Ant1	Low	2402	-2.38	-34.47	≤-22.38	PASS
BLE_2M	Ant1	High	2480	-5.01	-47.36	≤-25.01	PASS

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

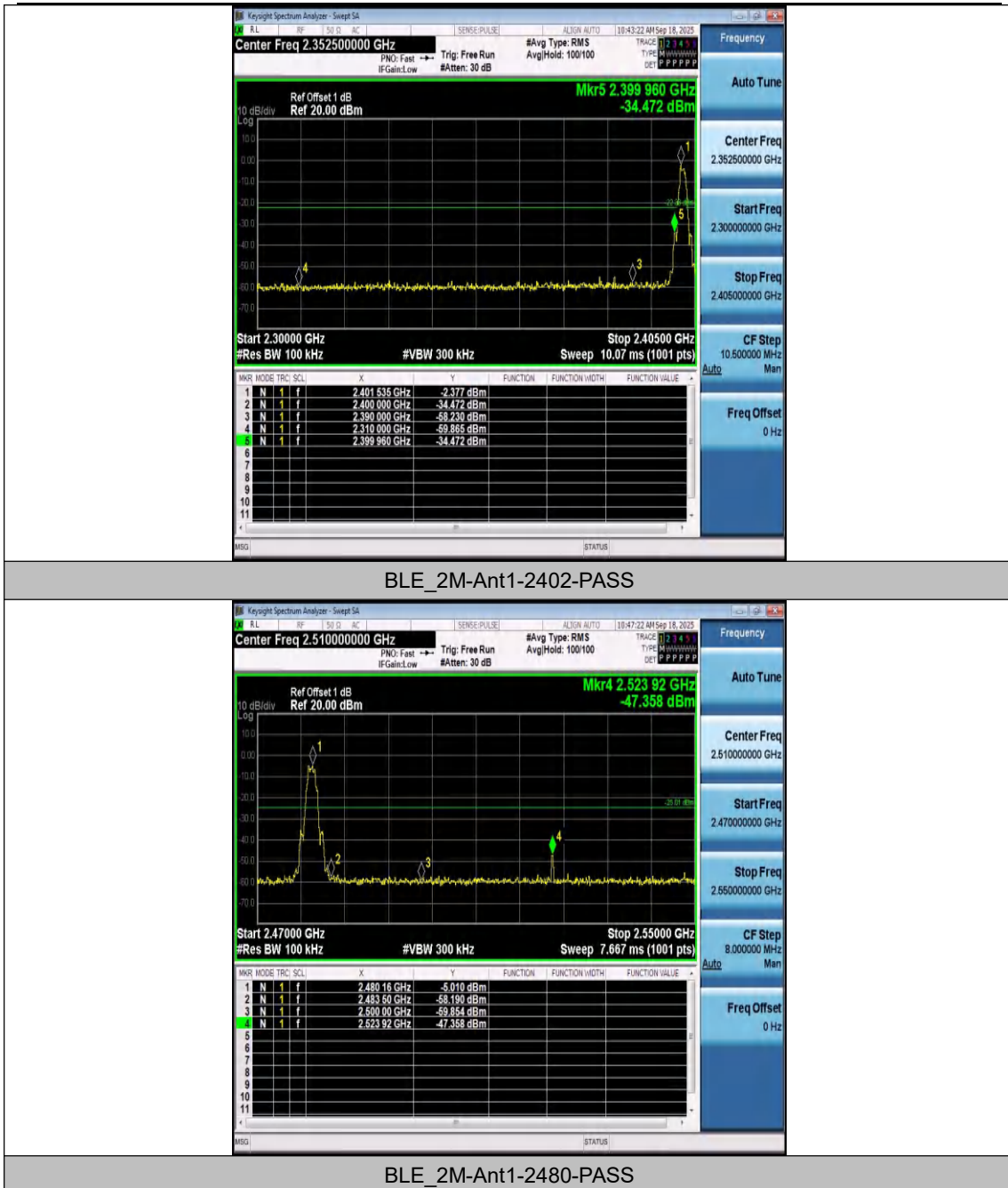
Test Graphs



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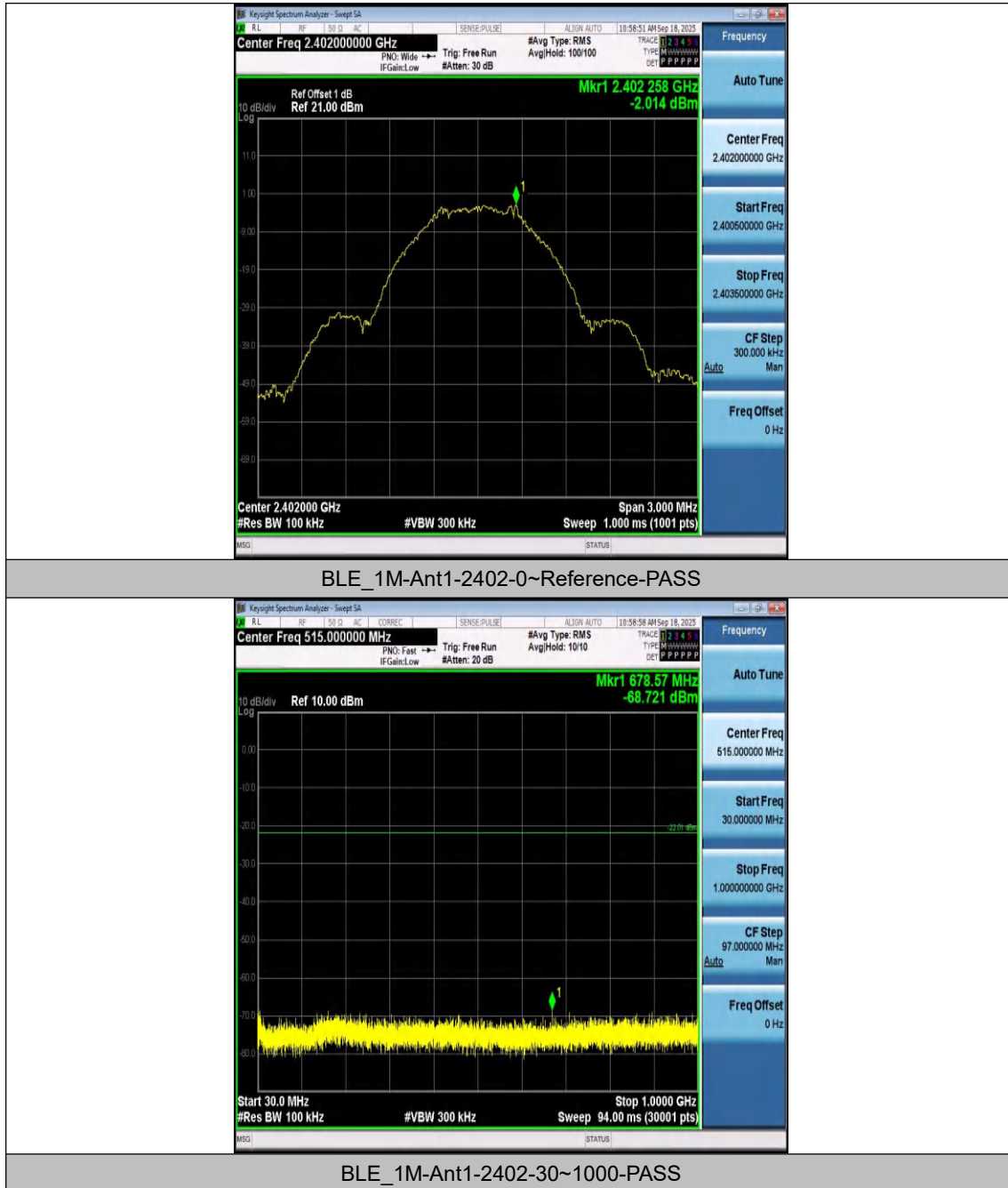
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.01	-2.01	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.01	-68.72	≤-22.01	PASS
BLE_1M	Ant1	2402	1000~26500	-2.01	-40.38	≤-22.01	PASS
BLE_1M	Ant1	2440	0~Reference	-2.74	-2.74	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.74	-55.99	≤-22.74	PASS
BLE_1M	Ant1	2440	1000~26500	-2.74	-48.48	≤-22.74	PASS
BLE_1M	Ant1	2480	0~Reference	-3.74	-3.74	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.74	-65.21	≤-23.74	PASS
BLE_1M	Ant1	2480	1000~26500	-3.74	-51.58	≤-23.74	PASS
BLE_2M	Ant1	2402	0~Reference	-2.58	-2.58	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.58	-52.4	≤-22.58	PASS
BLE_2M	Ant1	2402	1000~26500	-2.58	-52.21	≤-22.58	PASS
BLE_2M	Ant1	2440	0~Reference	-3.11	-3.11	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.11	-68.42	≤-23.11	PASS
BLE_2M	Ant1	2440	1000~26500	-3.11	-41.53	≤-23.11	PASS
BLE_2M	Ant1	2480	0~Reference	-3.85	-3.85	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.85	-68.84	≤-23.85	PASS
BLE_2M	Ant1	2480	1000~26500	-3.85	-47.08	≤-23.85	PASS

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

Test Graphs



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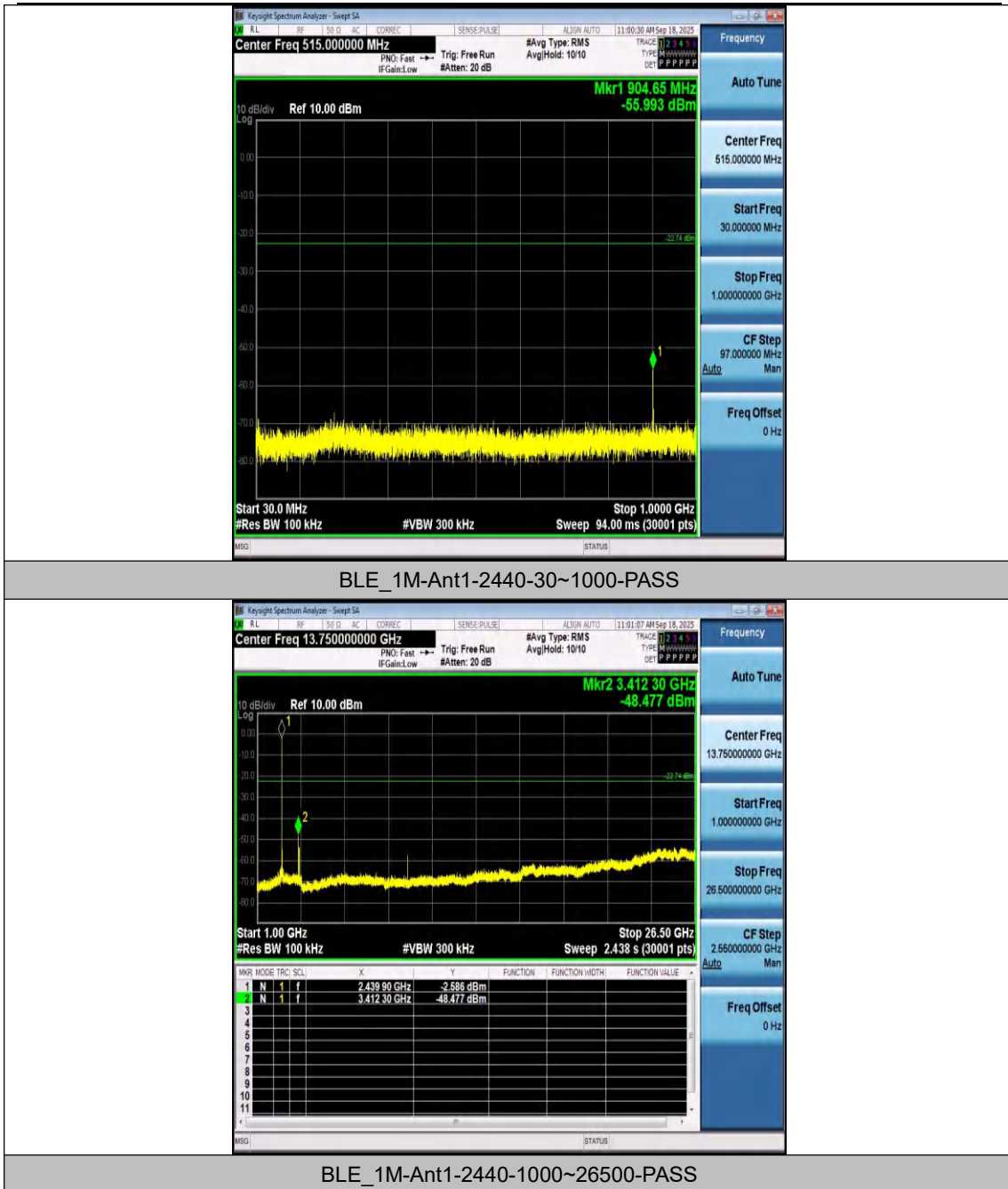
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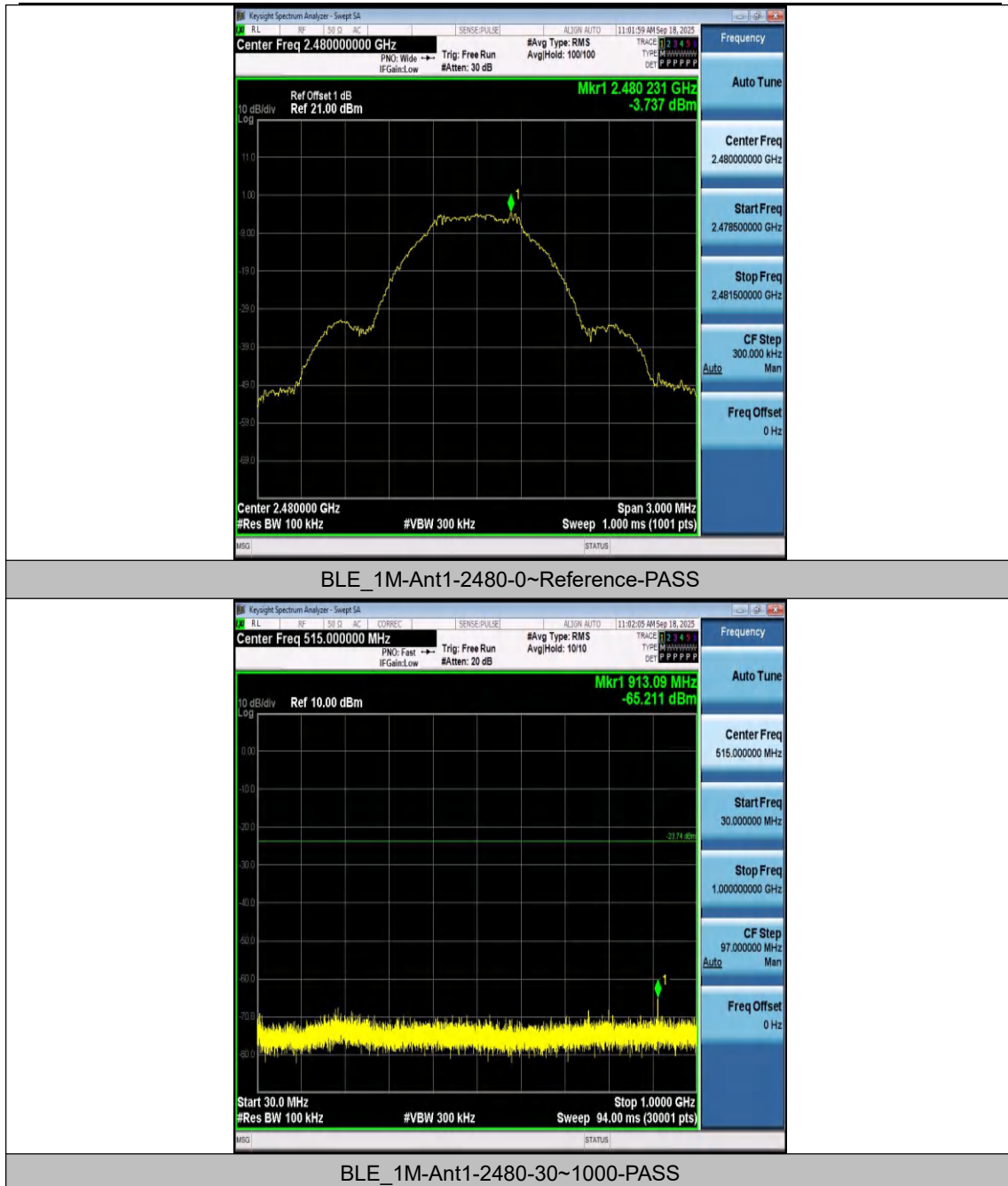
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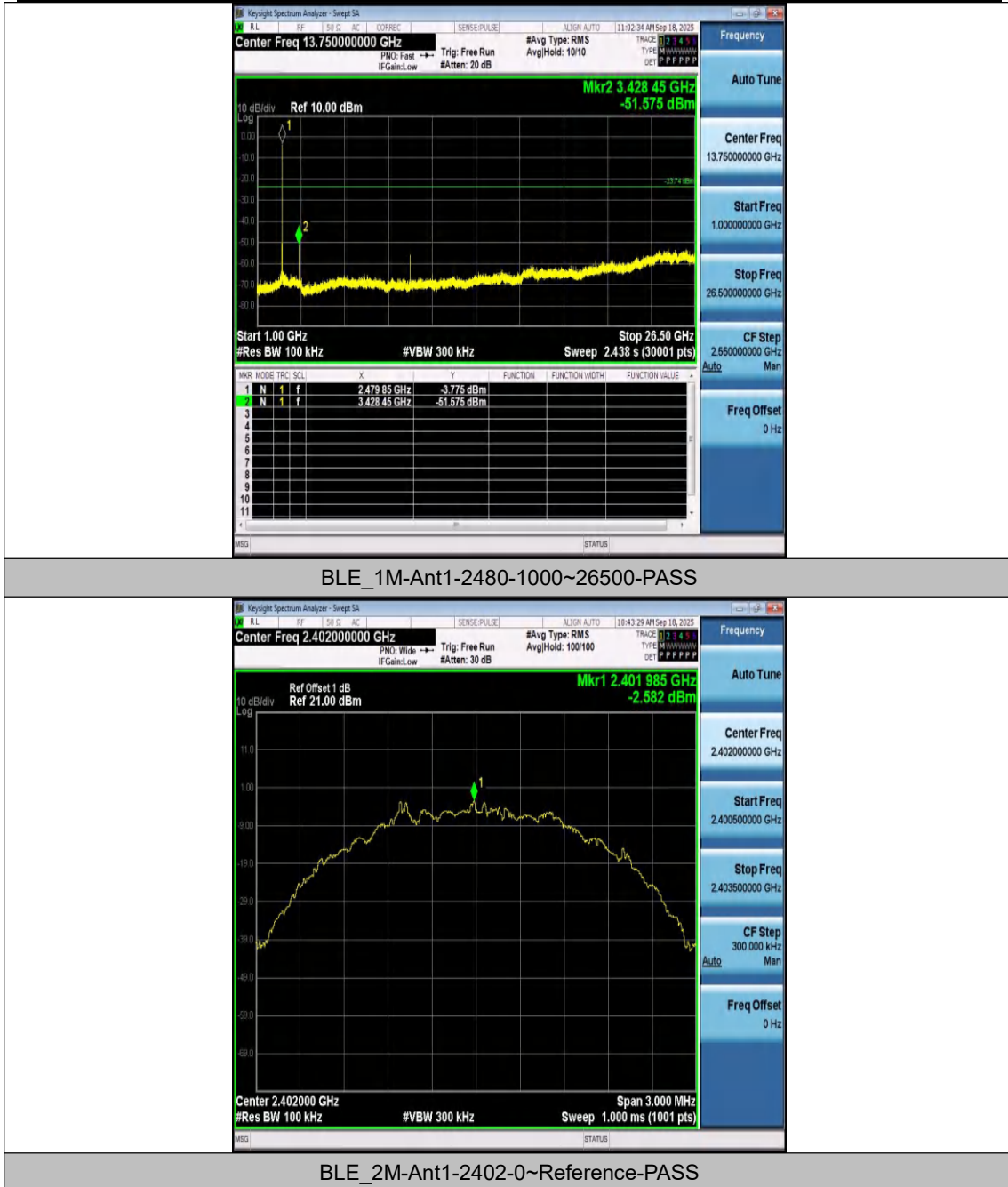
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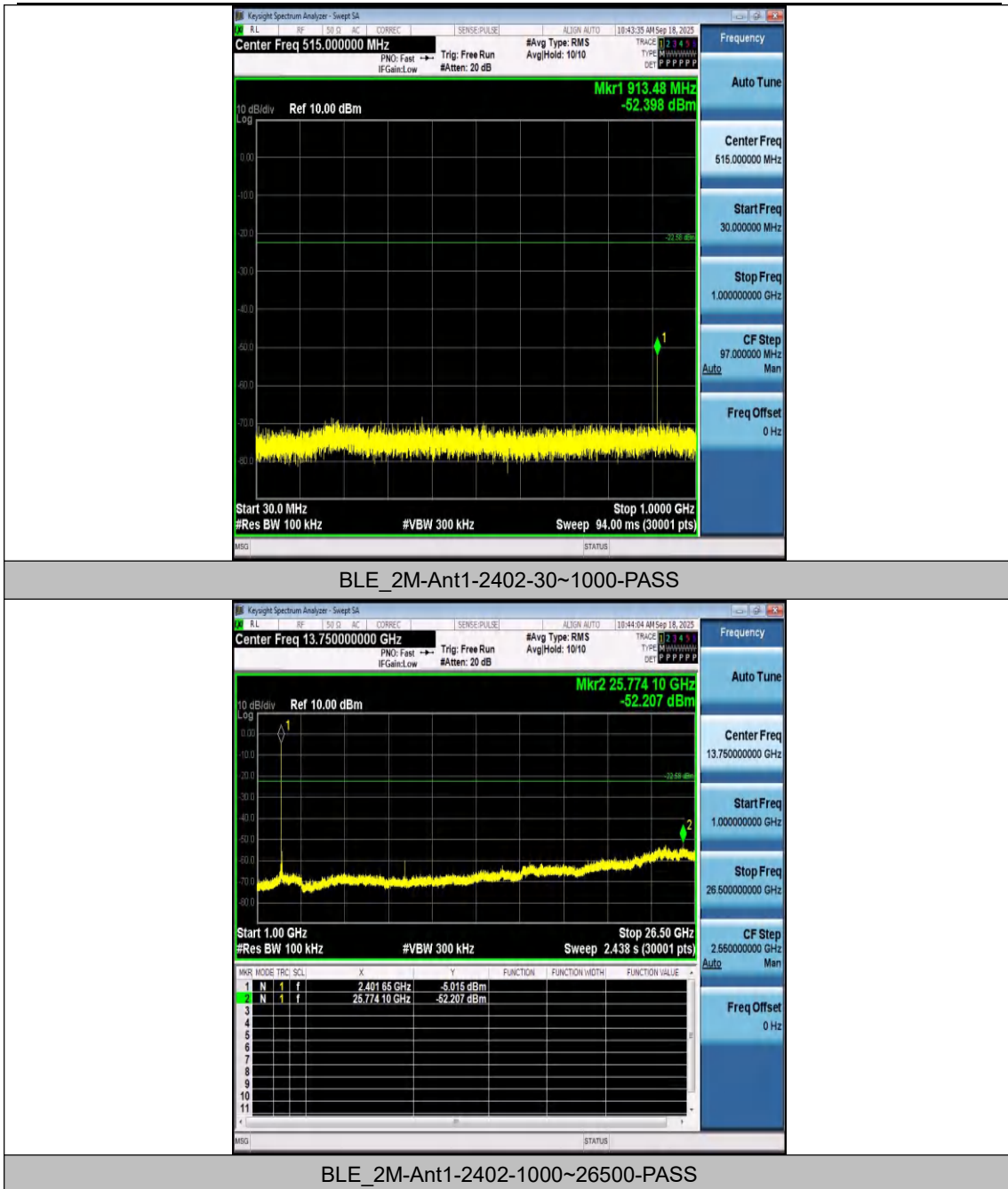
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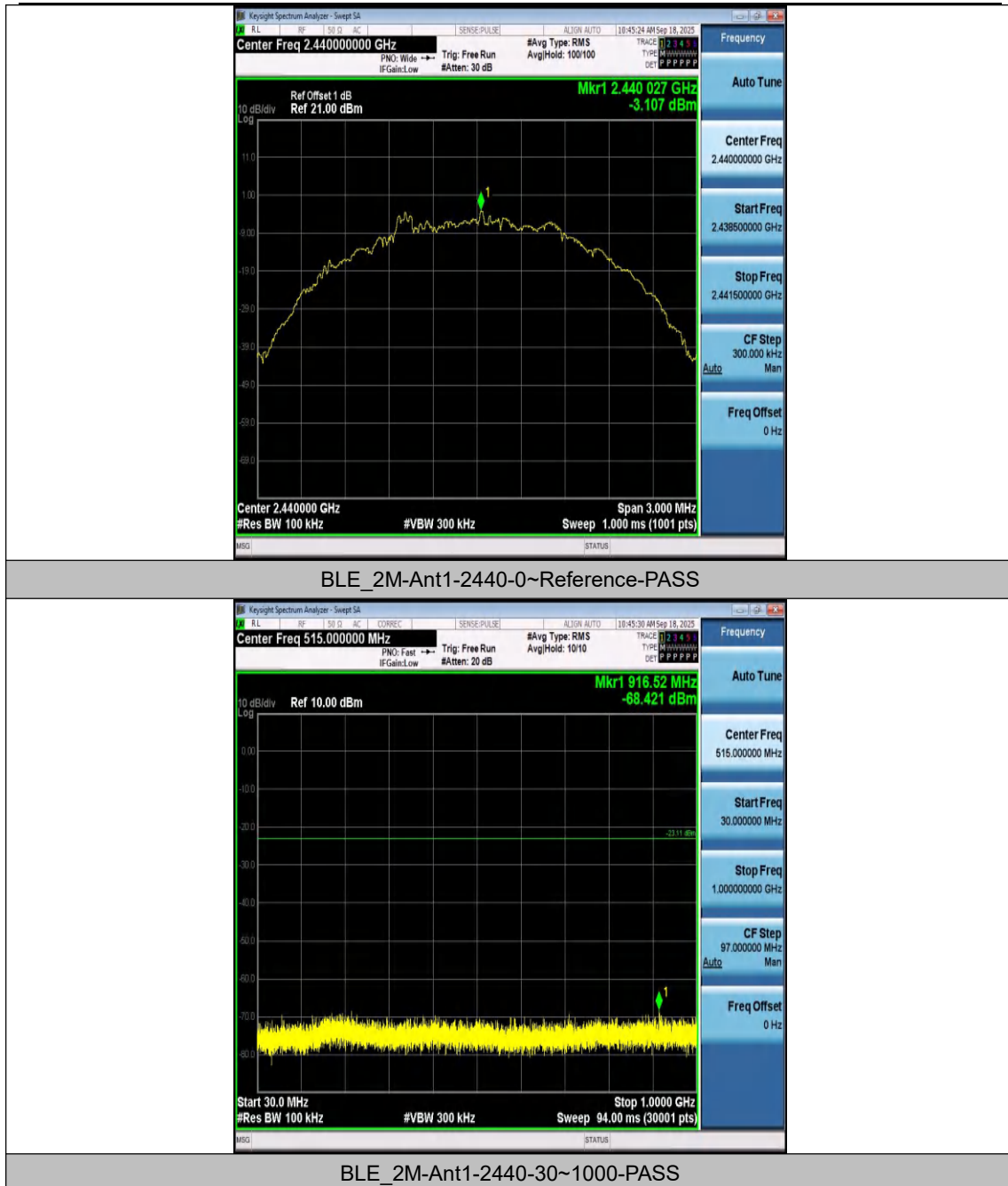
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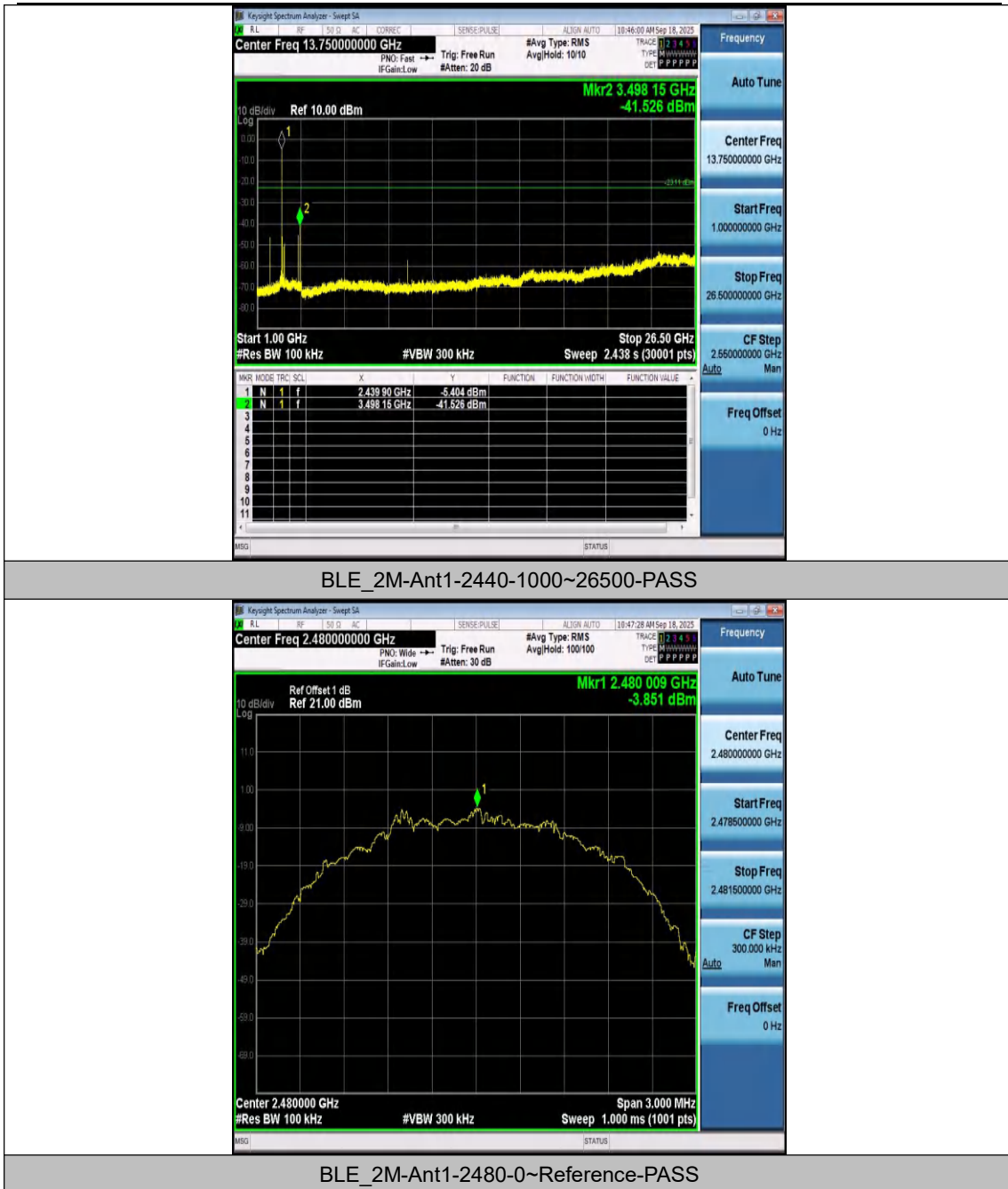
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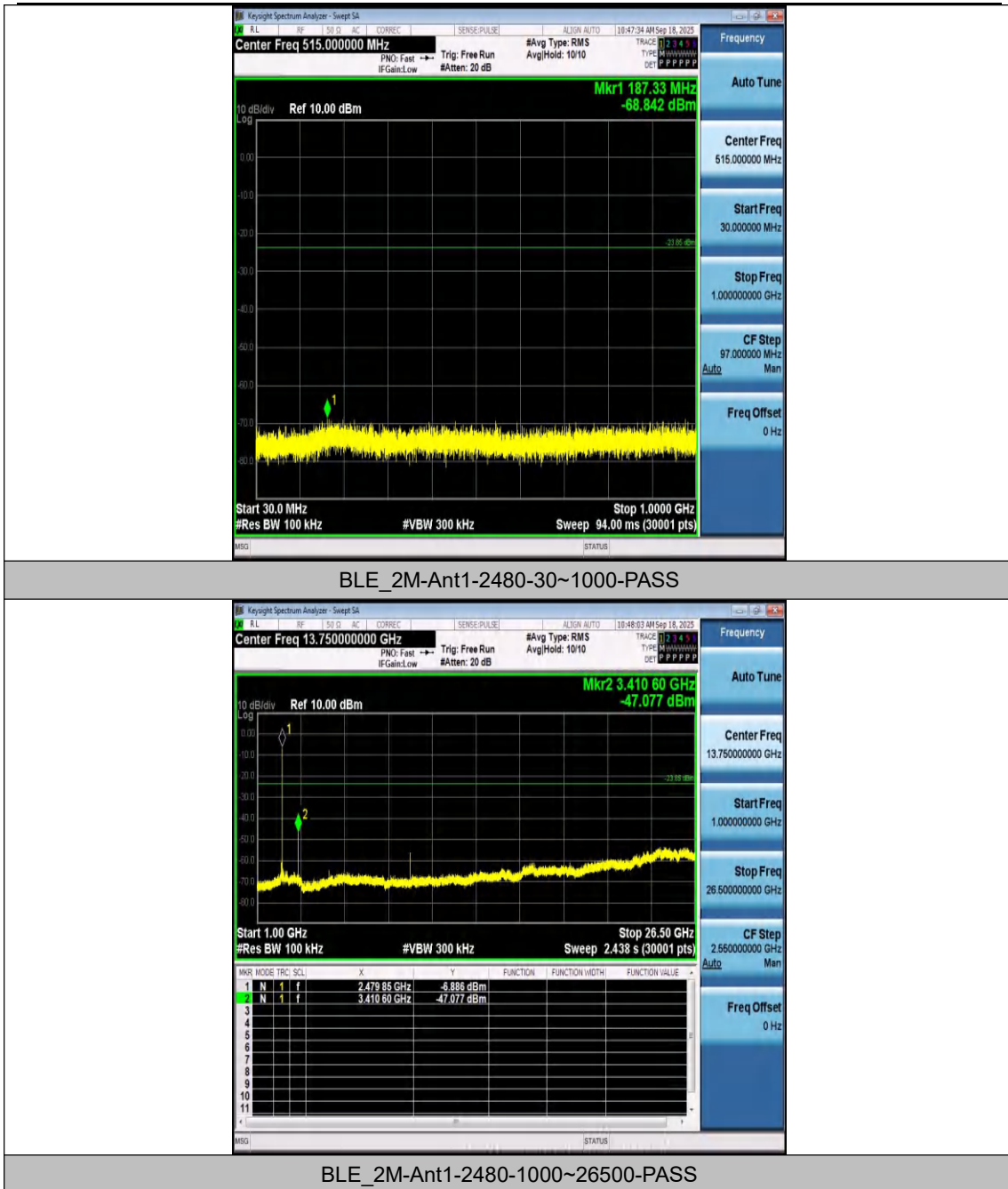
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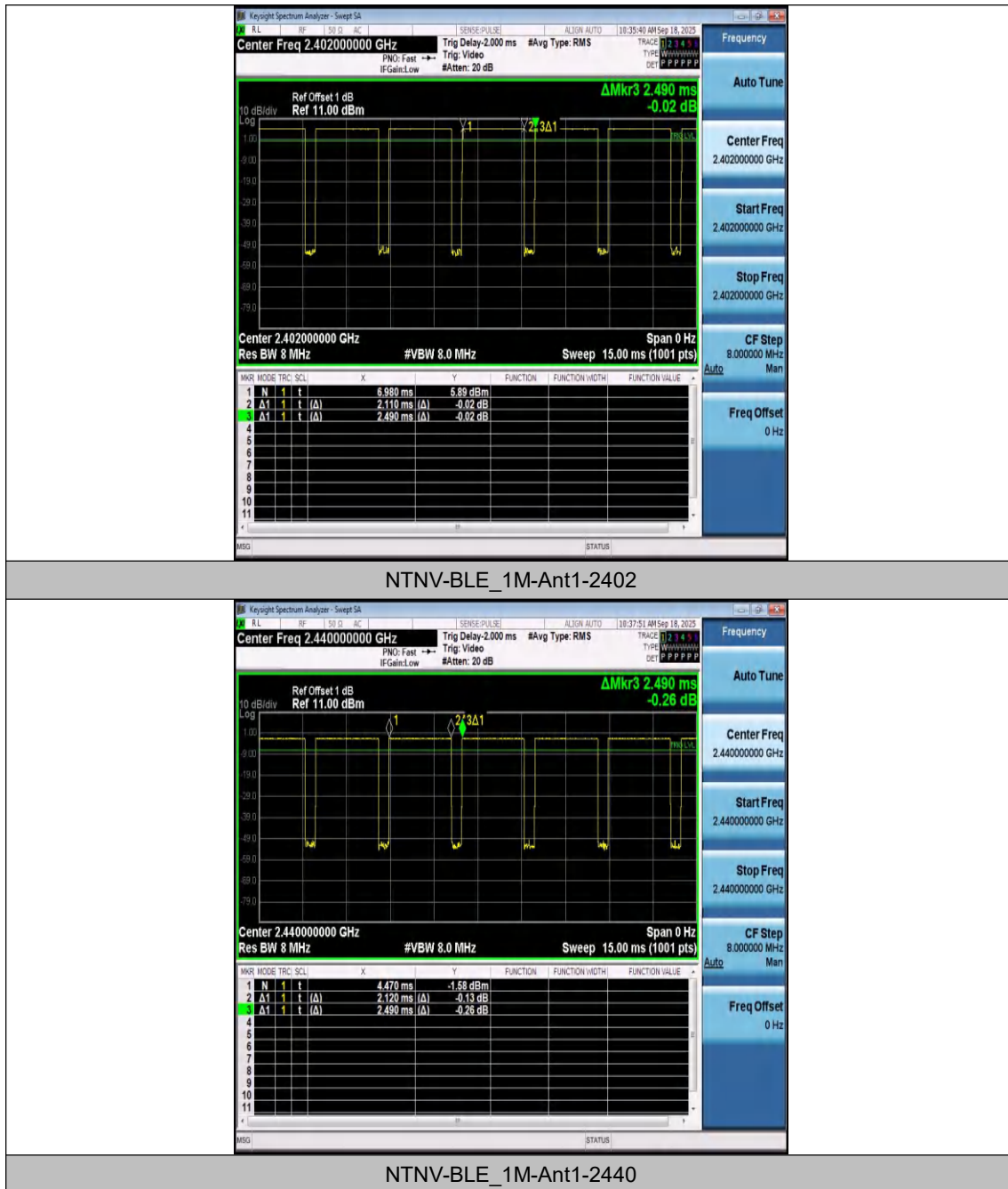
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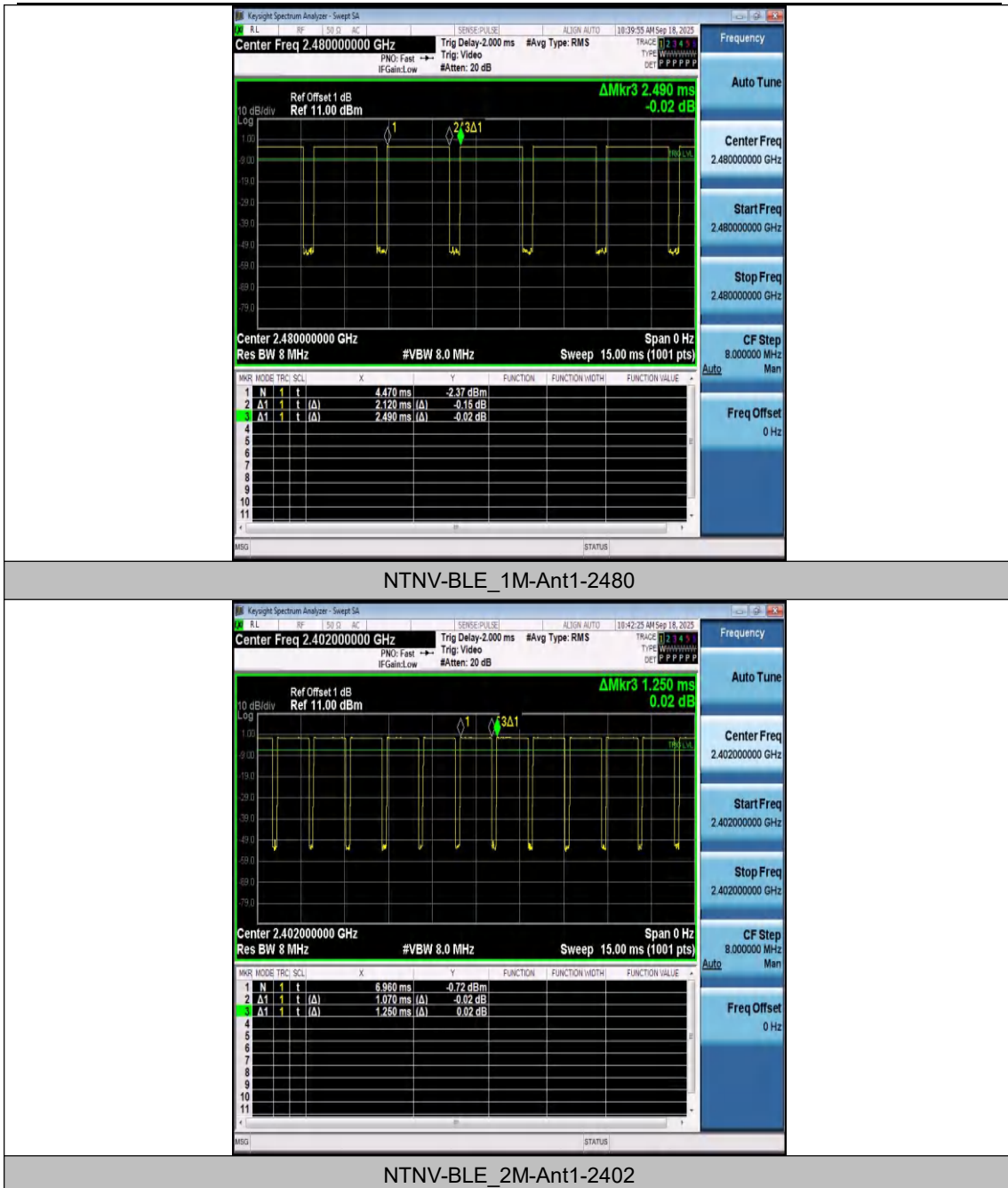
Appendix G: Duty Cycle

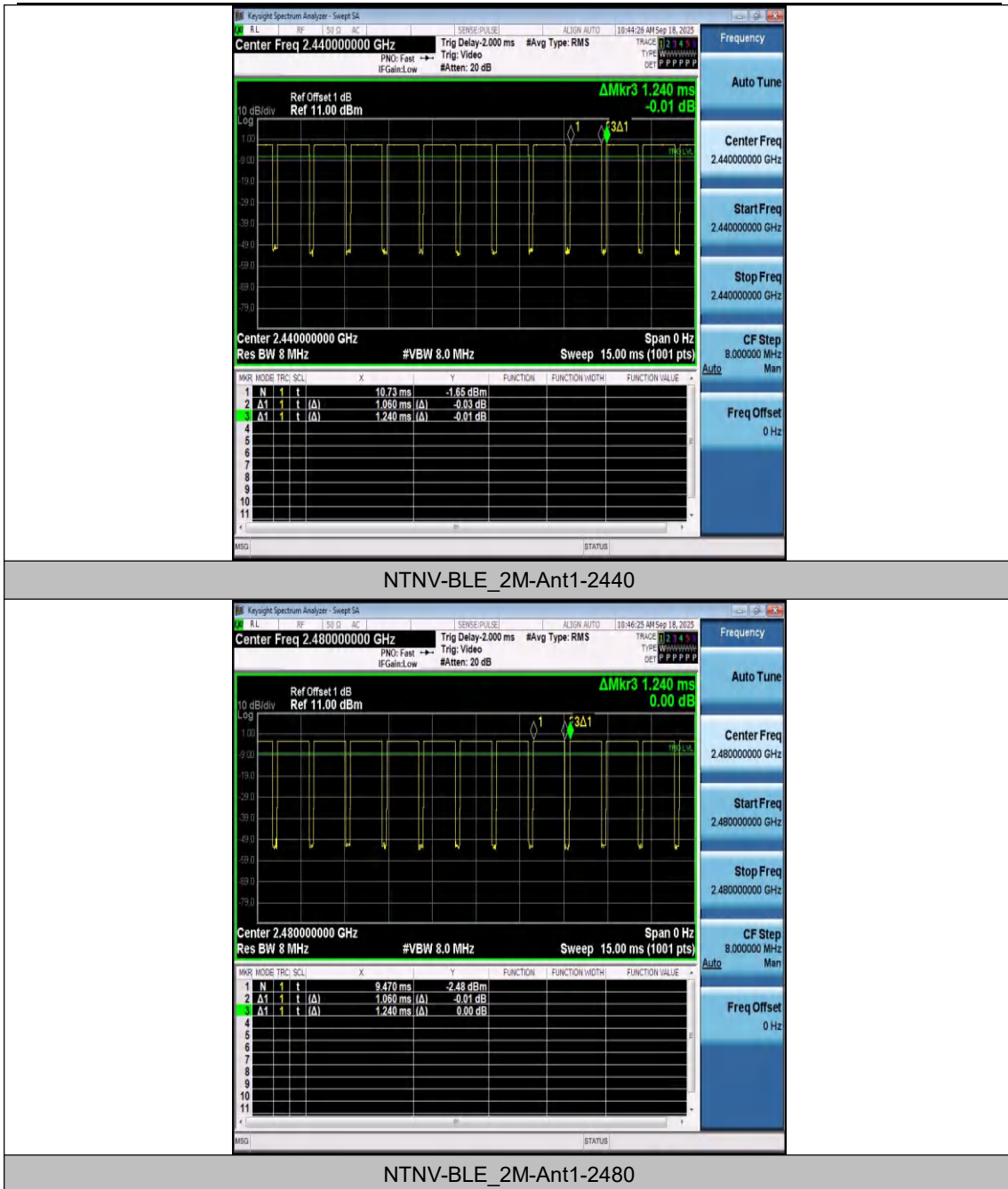
Test Result

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	2.12	2.49	85.14	0.70
BLE_1M	Ant1	2480	2.12	2.49	85.14	0.70
BLE_2M	Ant1	2402	1.07	1.25	85.60	0.68
BLE_2M	Ant1	2440	1.06	1.24	85.48	0.68
BLE_2M	Ant1	2480	1.06	1.24	85.48	0.68

Test Graphs







---End---