

Appendix Test Data

Report No.:	1813C50120412501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-11	Finish Test Date:	2025-04-11
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.7°C	Relative Humidity:	46%
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	0.684	2439.668	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.660	2480.352	0.5	PASS
BLE_2M	Ant1	2402	1.352	2401.320	2402.672	0.5	PASS
BLE_2M	Ant1	2440	1.376	2439.340	2440.716	0.5	PASS
BLE_2M	Ant1	2480	1.384	2479.324	2480.708	0.5	PASS



Test Graphs





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Appendix B: 99% Occupied Bandwidth

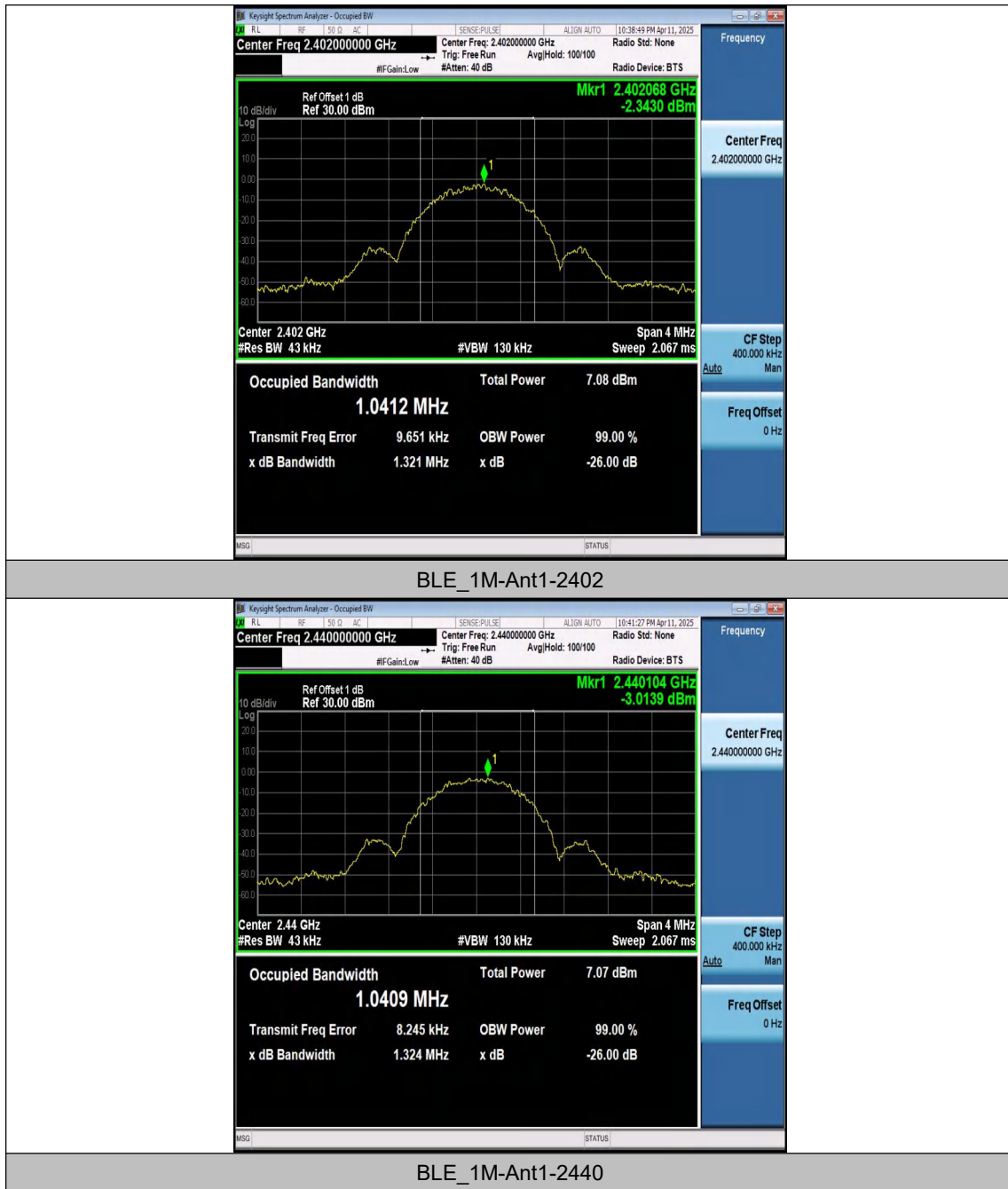
Test Result

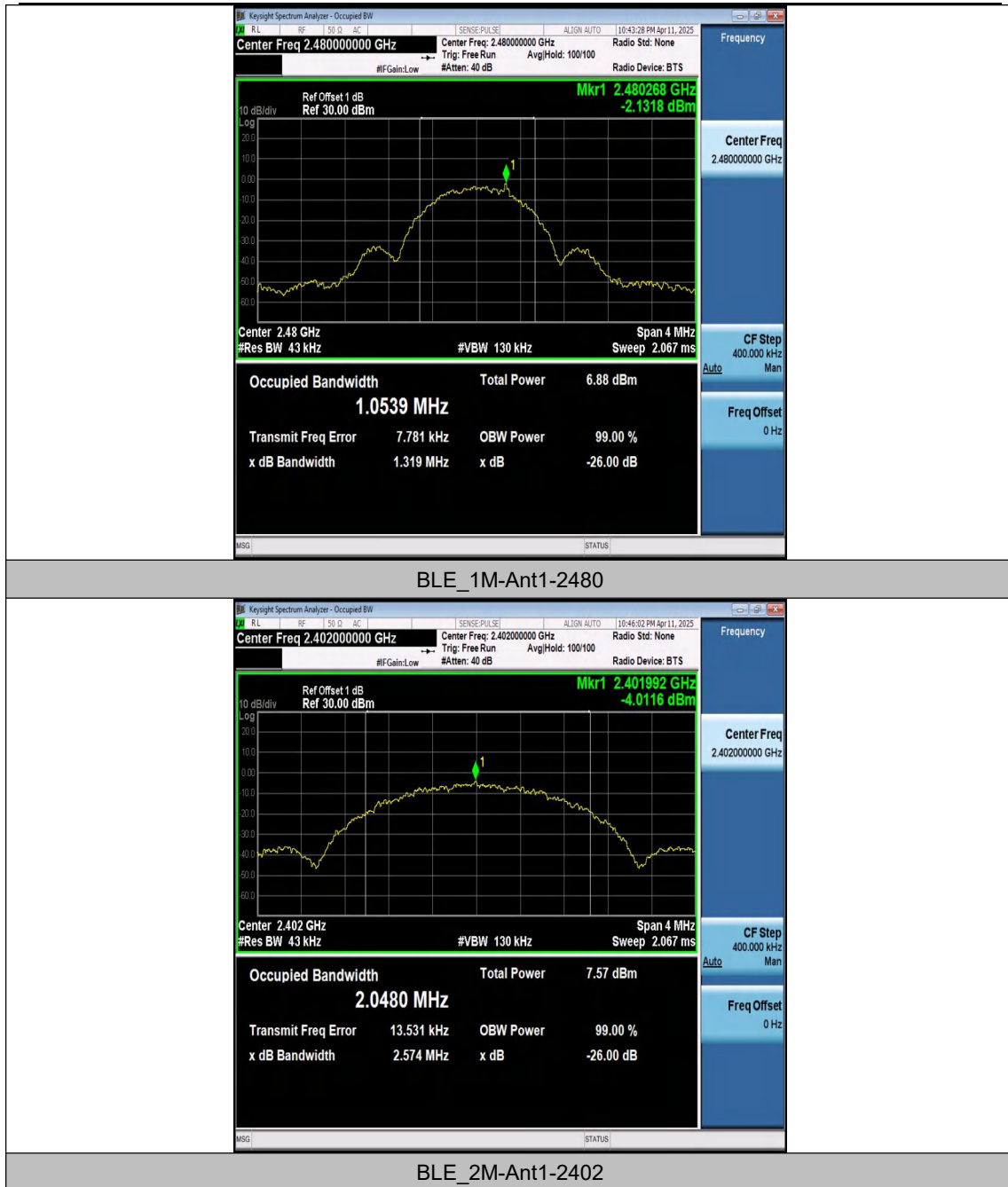
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0412	2401.4891	2402.5303	---	---
BLE_1M	Ant1	2440	1.0409	2439.4878	2440.5287	---	---
BLE_1M	Ant1	2480	1.0539	2479.4808	2480.5347	---	---
BLE_2M	Ant1	2402	2.0480	2400.9895	2403.0375	---	---
BLE_2M	Ant1	2440	2.0810	2438.9645	2441.0455	---	---
BLE_2M	Ant1	2480	2.0580	2478.9793	2481.0373	---	---

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Test Graphs





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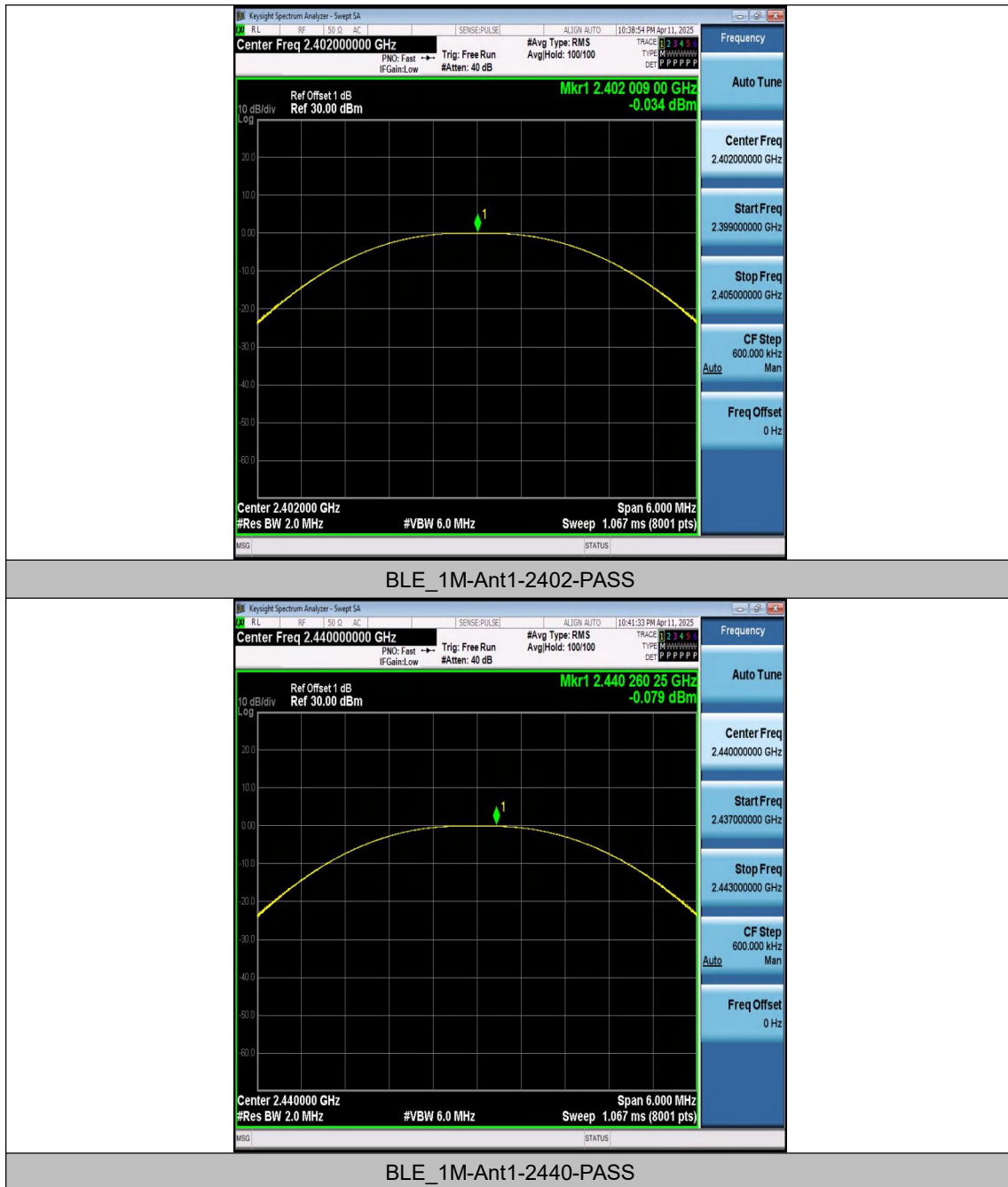
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.03	≤30	PASS
BLE_1M	Ant1	2440	-0.08	≤30	PASS
BLE_1M	Ant1	2480	-0.09	≤30	PASS
BLE_2M	Ant1	2402	-0.02	≤30	PASS
BLE_2M	Ant1	2440	-0.08	≤30	PASS
BLE_2M	Ant1	2480	-0.09	≤30	PASS



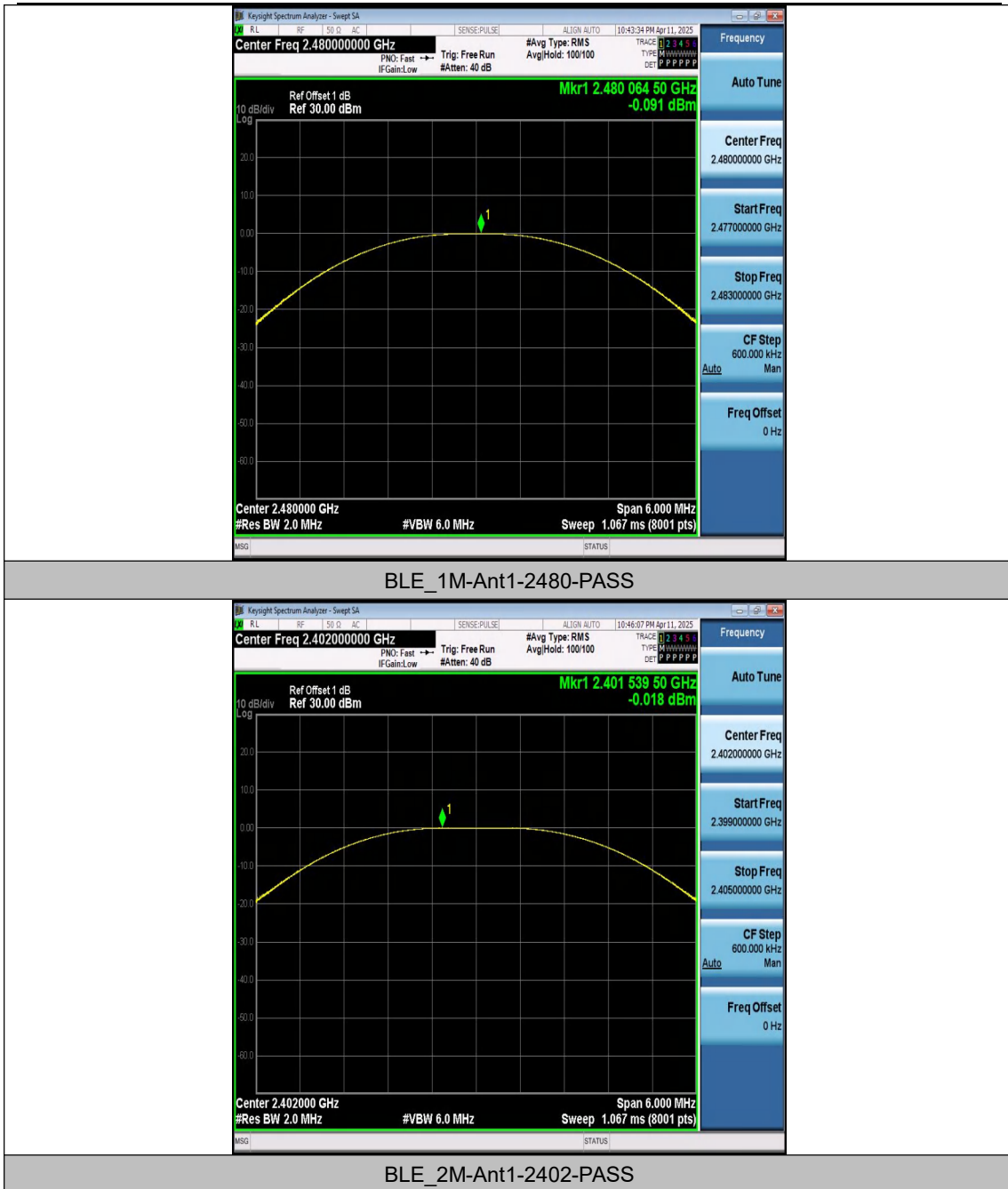
Test Graphs Peak



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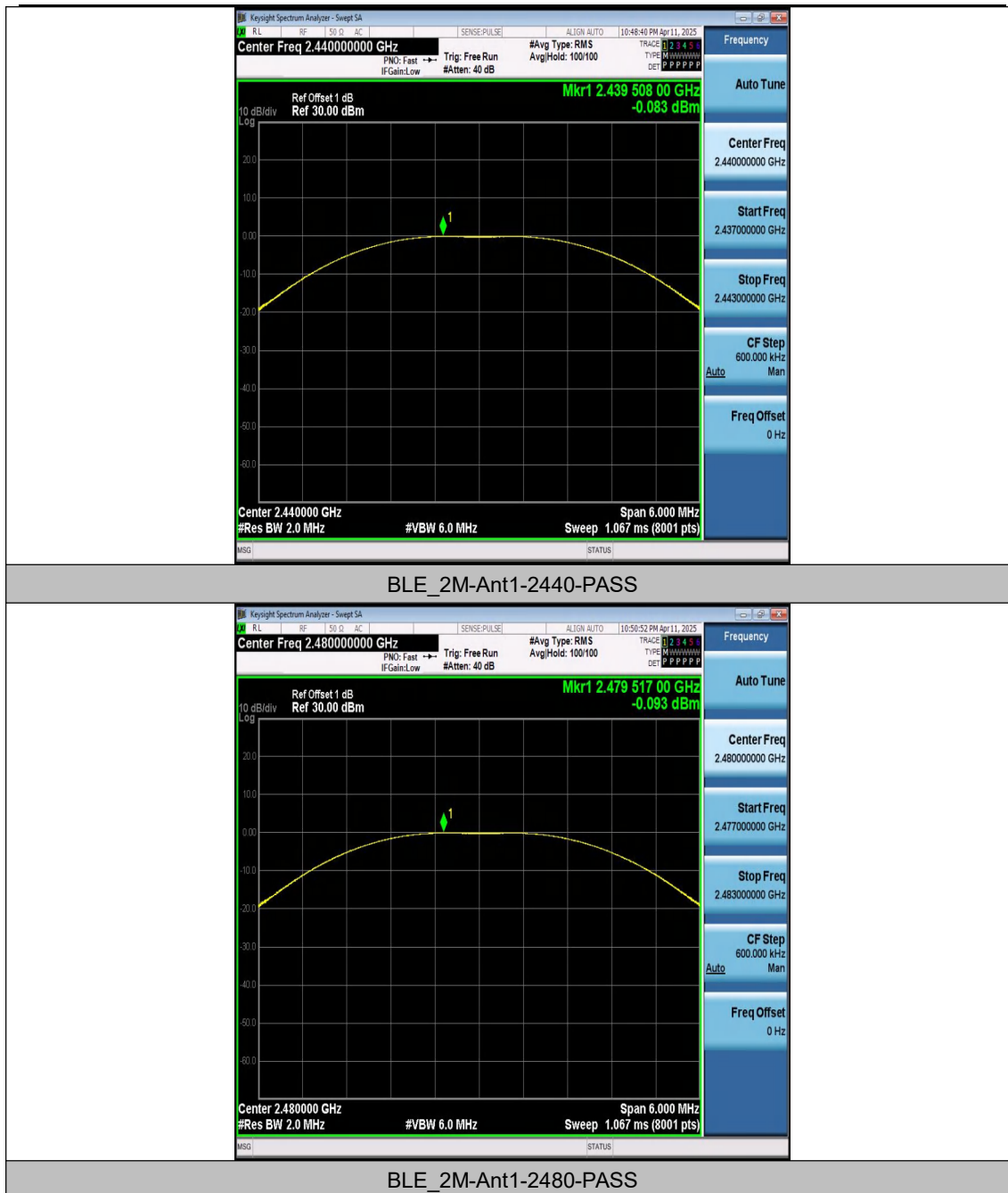
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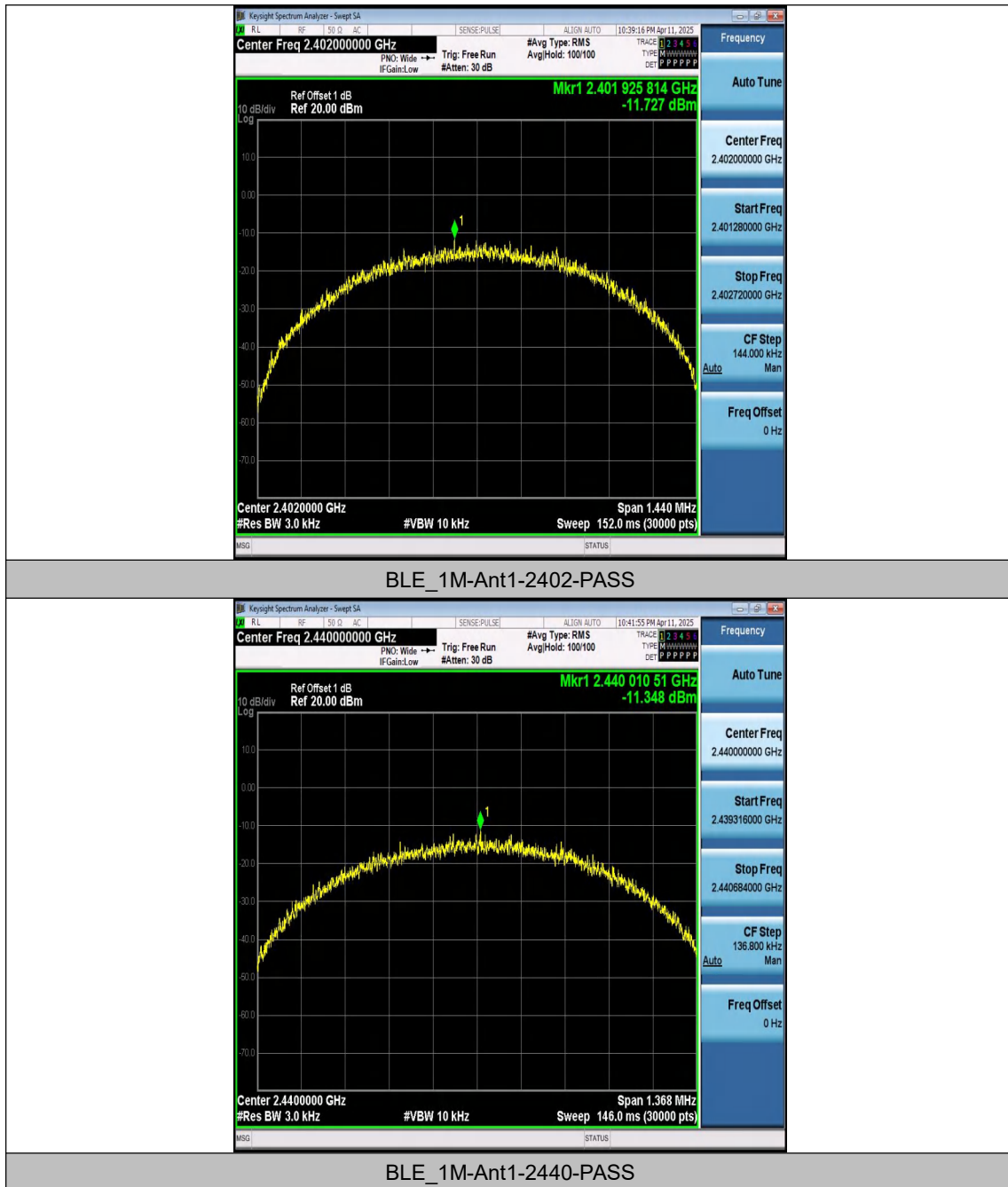
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.73	≤8.00	PASS
BLE_1M	Ant1	2440	-11.35	≤8.00	PASS
BLE_1M	Ant1	2480	-11.86	≤8.00	PASS
BLE_2M	Ant1	2402	-14.59	≤8.00	PASS
BLE_2M	Ant1	2440	-14.67	≤8.00	PASS
BLE_2M	Ant1	2480	-15.32	≤8.00	PASS

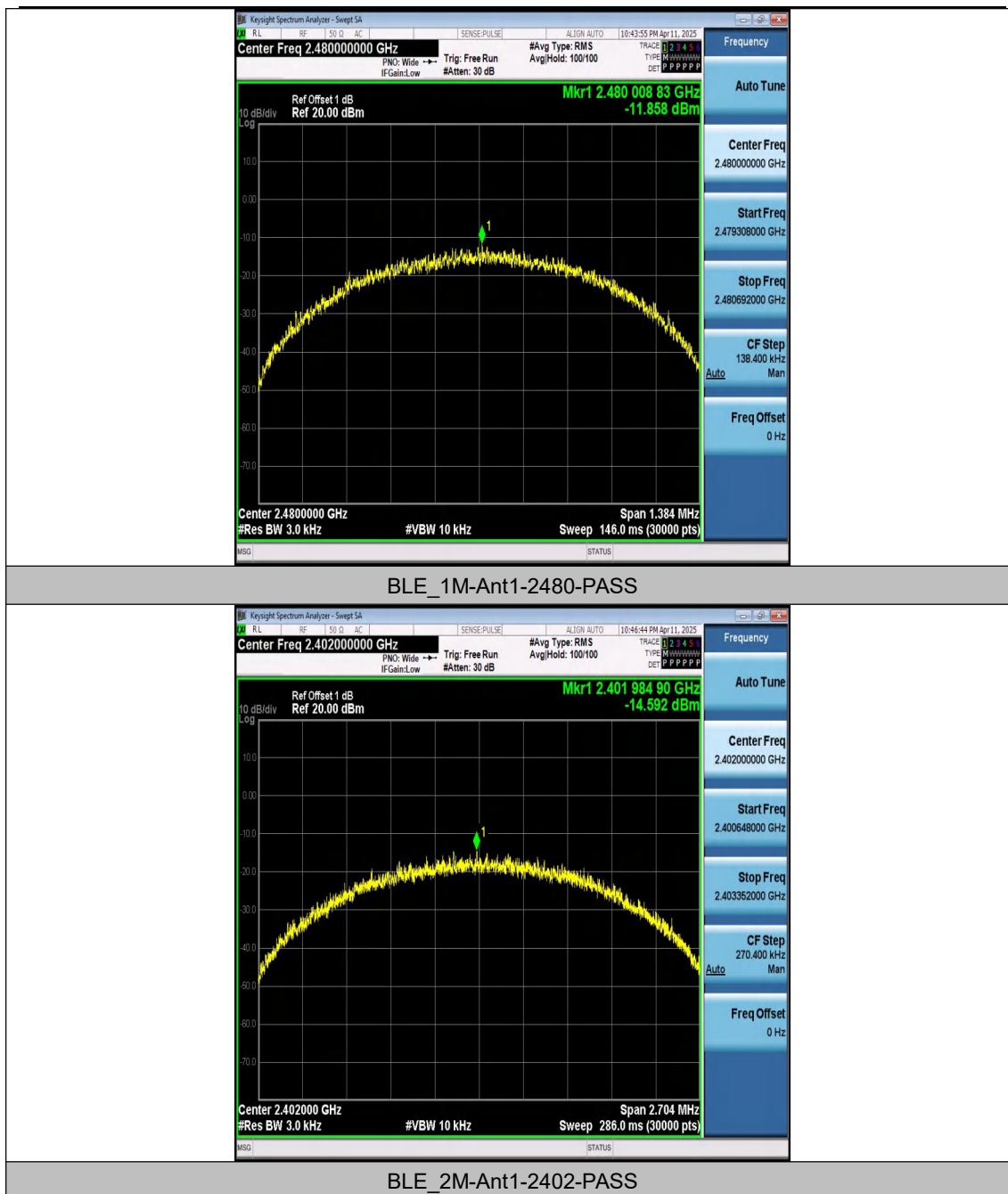
Test Graphs



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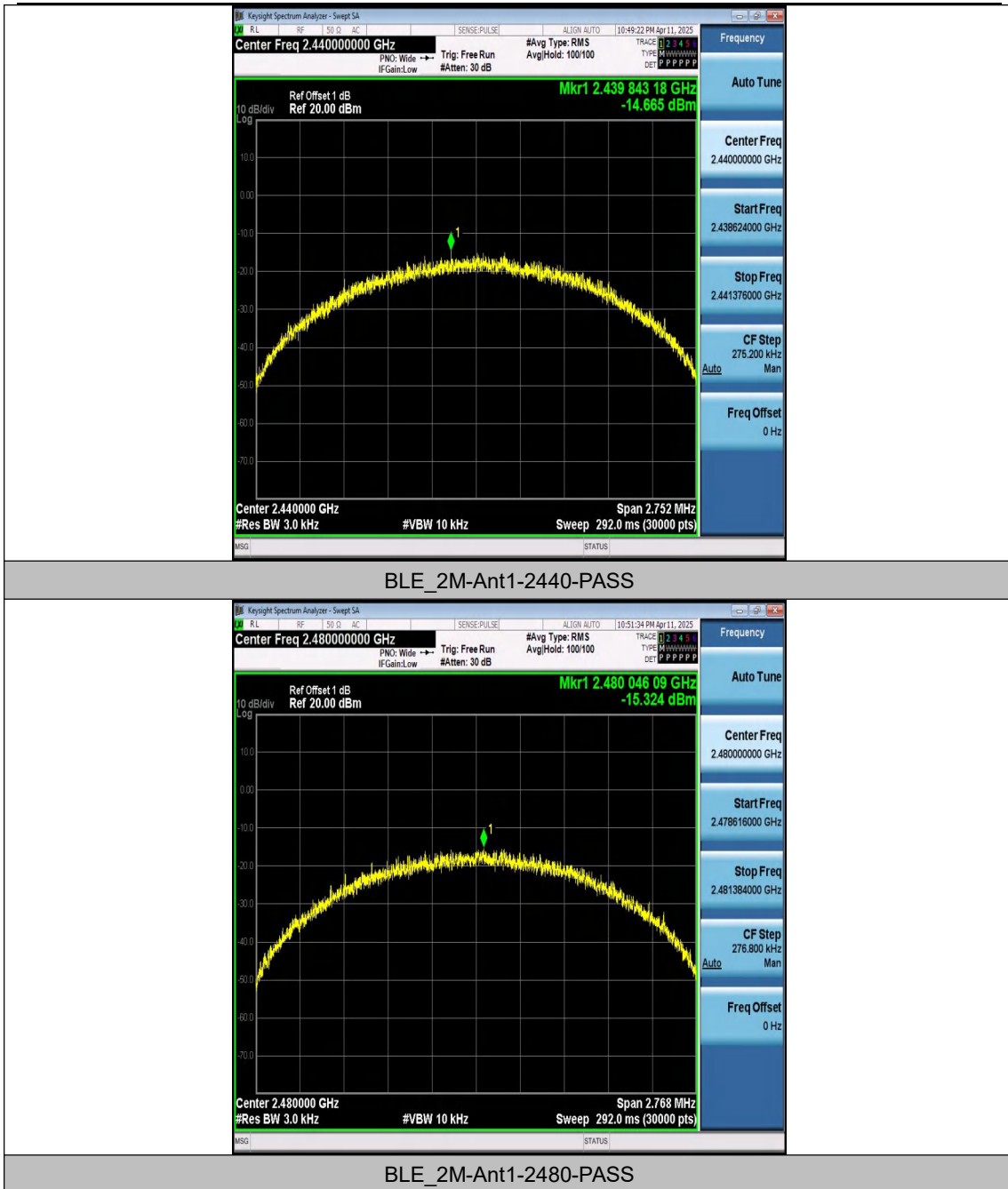


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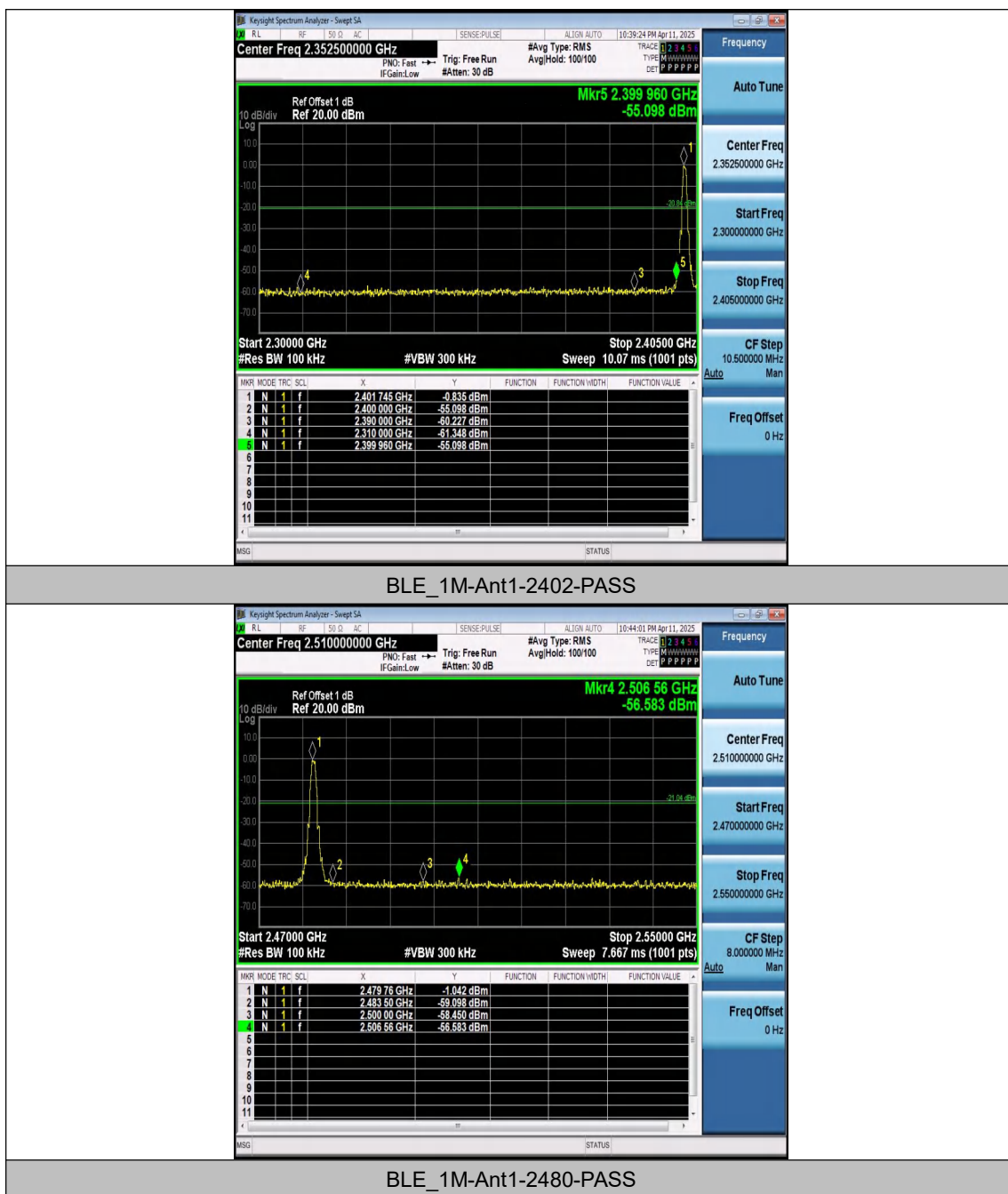
Appendix E: Band edge measurements

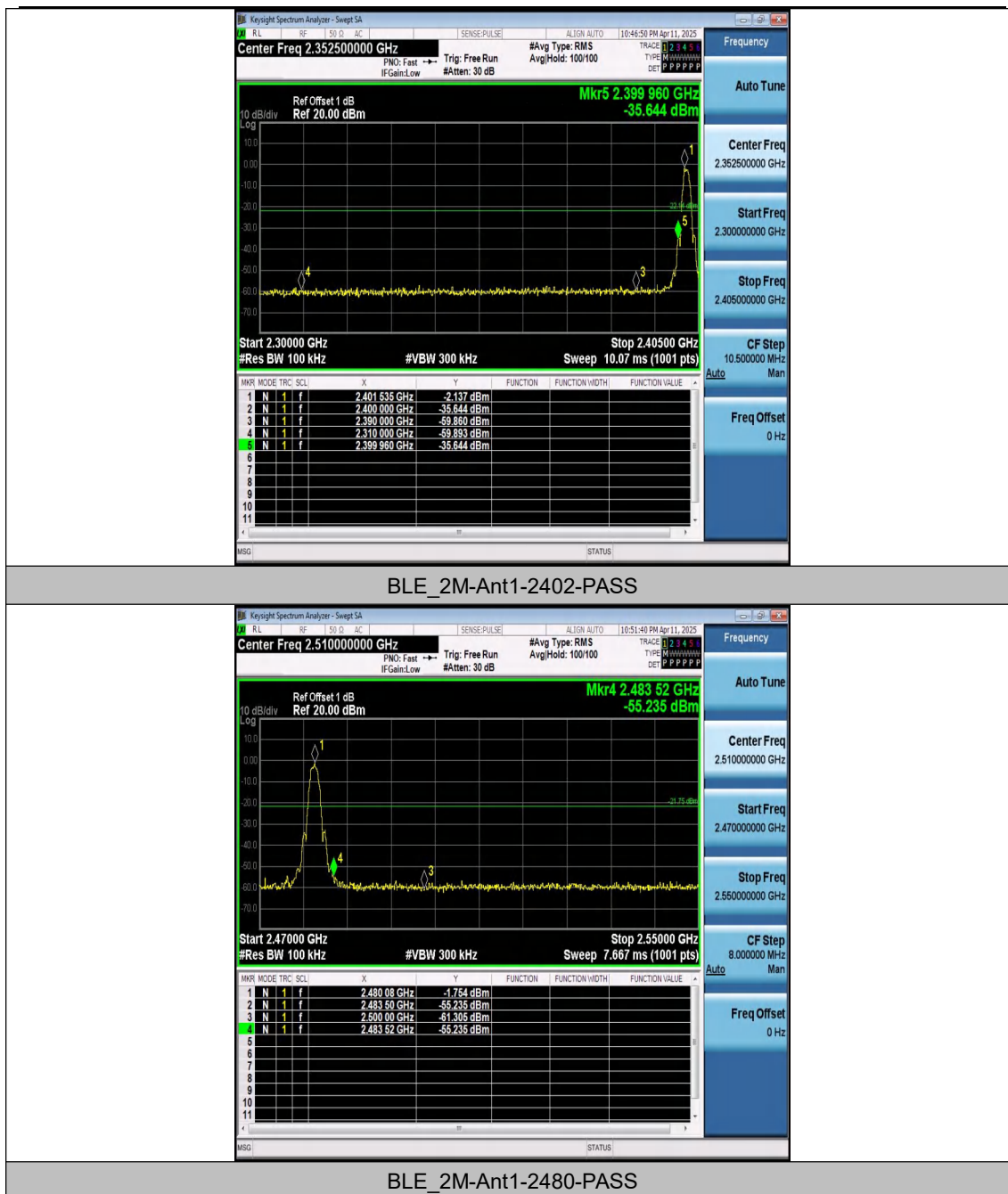
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.84	-55.1	≤-20.84	PASS
BLE_1M	Ant1	High	2480	-1.04	-56.58	≤-21.04	PASS
BLE_2M	Ant1	Low	2402	-2.14	-35.64	≤-22.14	PASS
BLE_2M	Ant1	High	2480	-1.75	-55.24	≤-21.75	PASS



Test Graphs





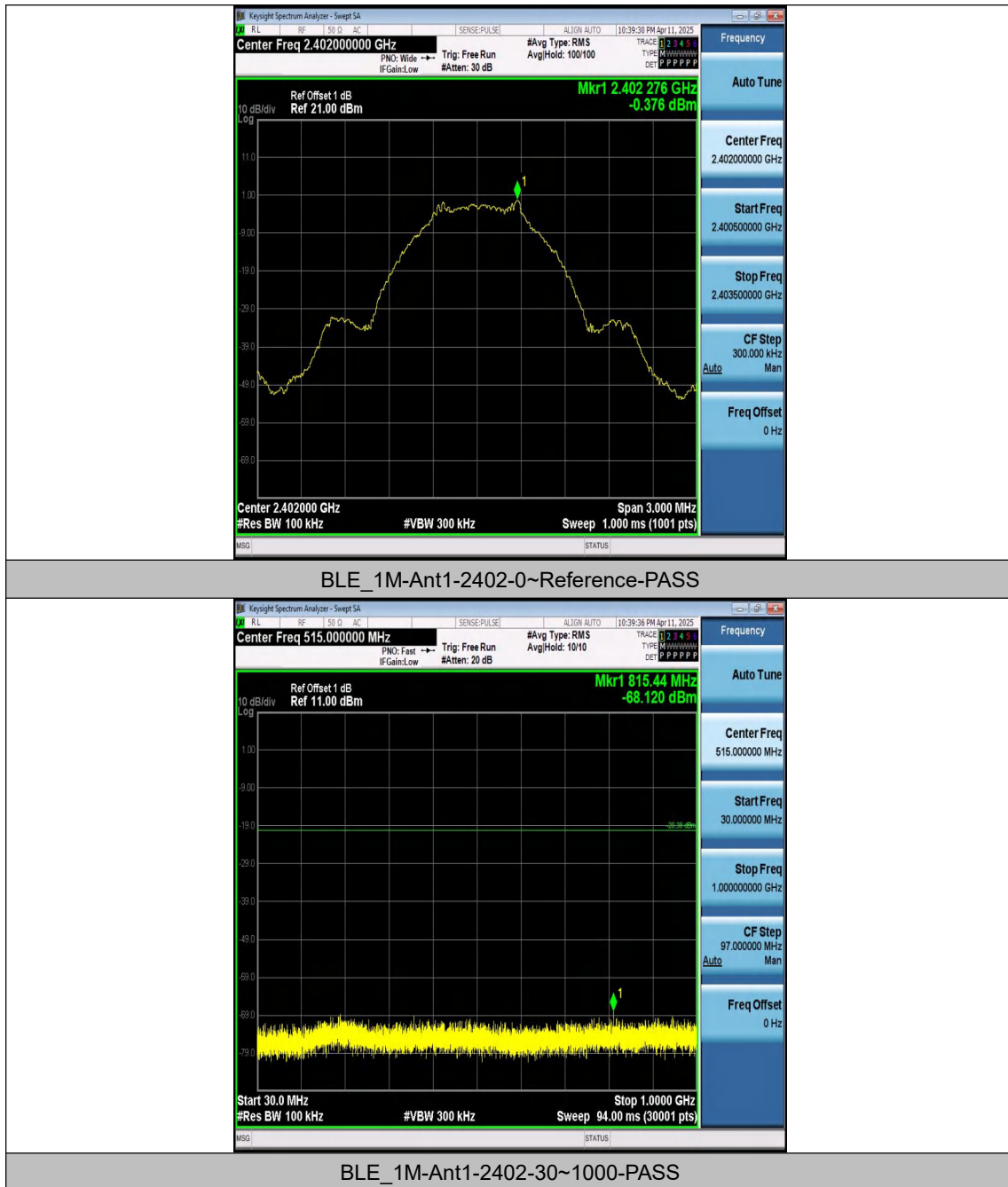
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.38	-0.38	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.38	-68.12	≤-20.38	PASS
BLE_1M	Ant1	2402	1000~26500	-0.38	-52.83	≤-20.38	PASS
BLE_1M	Ant1	2440	0~Reference	-0.41	-0.41	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.41	-68.12	≤-20.41	PASS
BLE_1M	Ant1	2440	1000~26500	-0.41	-51.02	≤-20.41	PASS
BLE_1M	Ant1	2480	0~Reference	-0.74	-0.74	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.74	-63.2	≤-20.74	PASS
BLE_1M	Ant1	2480	1000~26500	-0.74	-48.33	≤-20.74	PASS
BLE_2M	Ant1	2402	0~Reference	-2.07	-2.07	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.07	-68.69	≤-22.07	PASS
BLE_2M	Ant1	2402	1000~26500	-2.07	-46.59	≤-22.07	PASS
BLE_2M	Ant1	2440	0~Reference	-2.18	-2.18	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.18	-68.77	≤-22.18	PASS
BLE_2M	Ant1	2440	1000~26500	-2.18	-53.1	≤-22.18	PASS
BLE_2M	Ant1	2480	0~Reference	-2.14	-2.14	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.14	-68.56	≤-22.14	PASS
BLE_2M	Ant1	2480	1000~26500	-2.14	-53.02	≤-22.14	PASS



Test Graphs

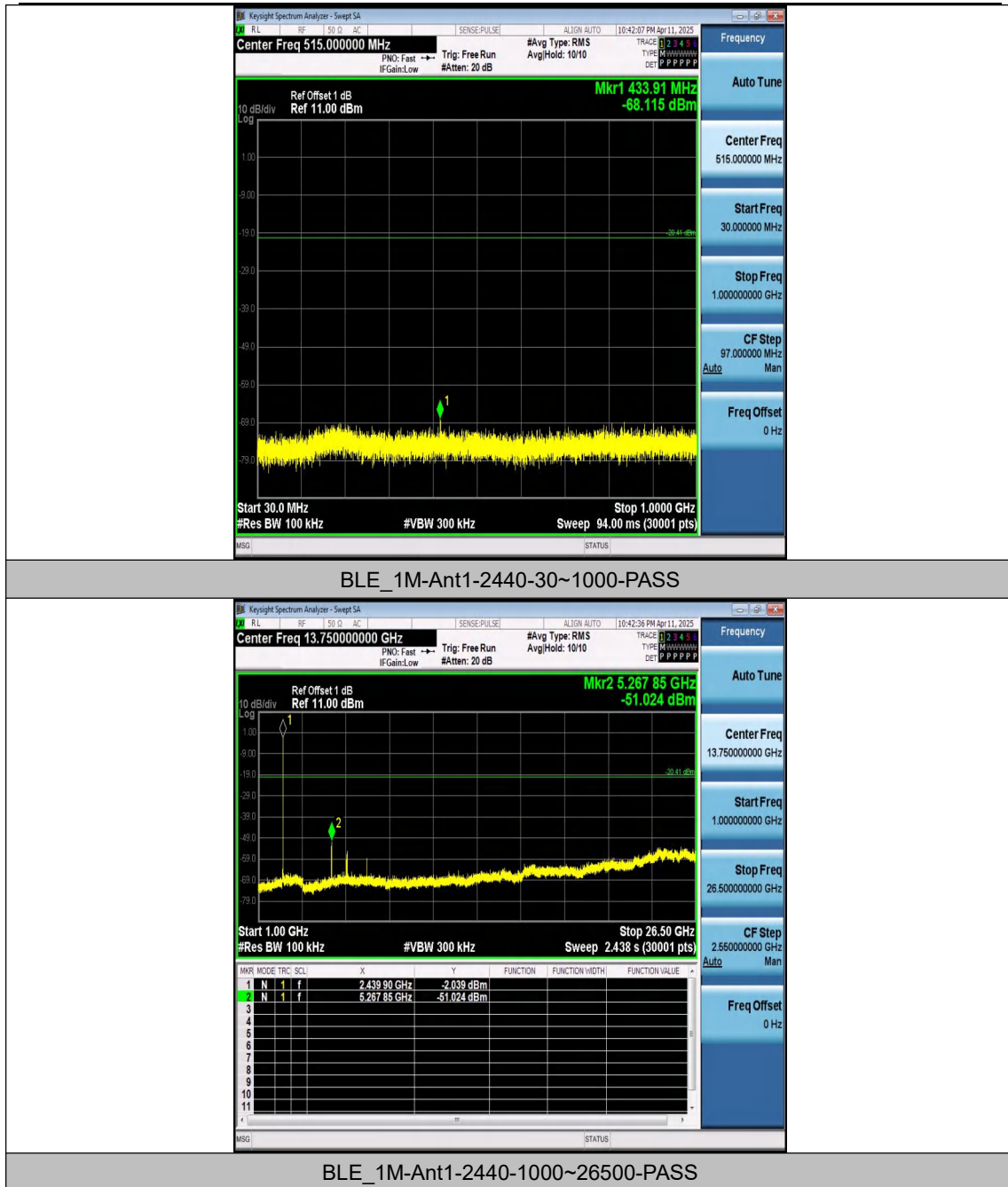


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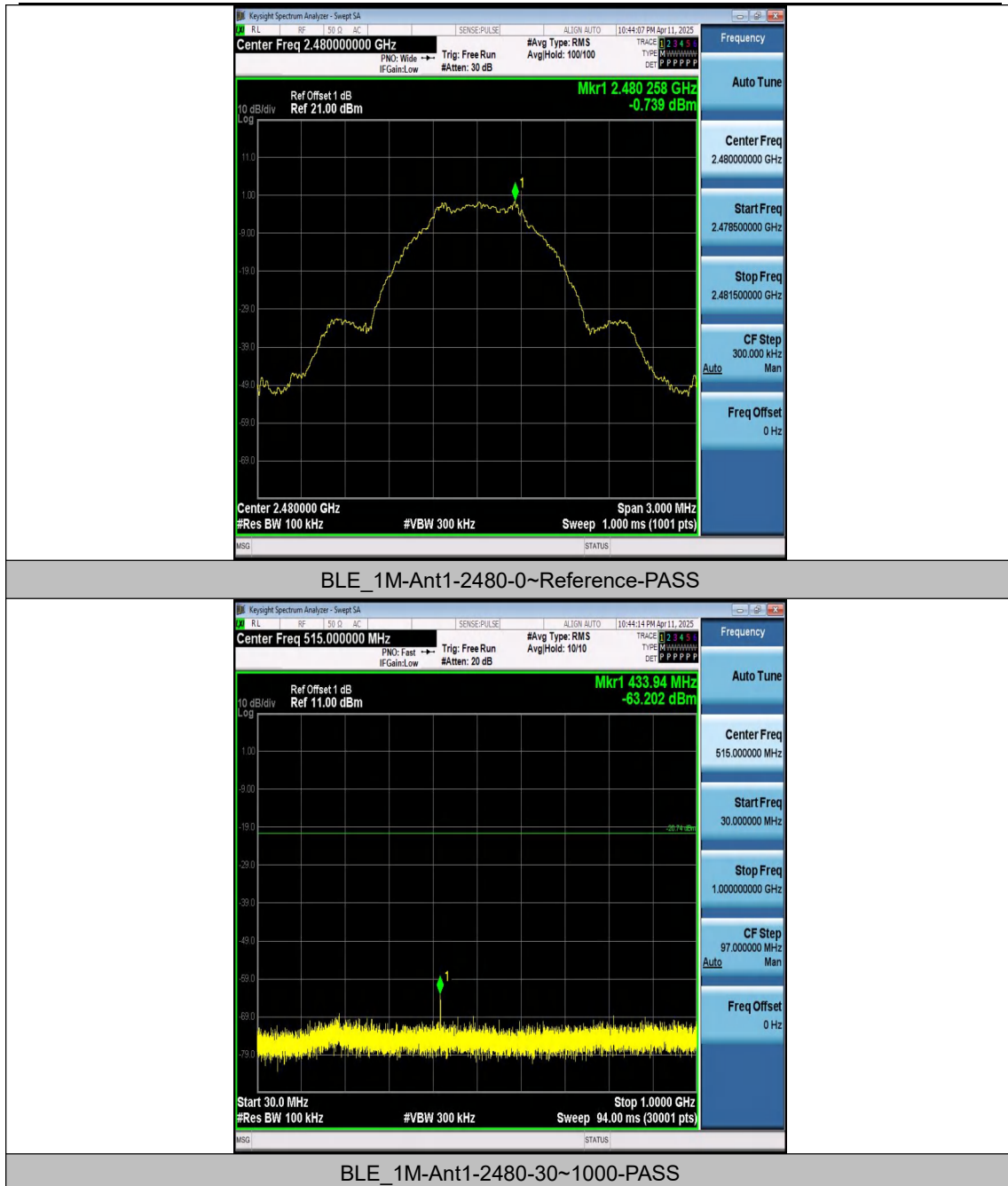




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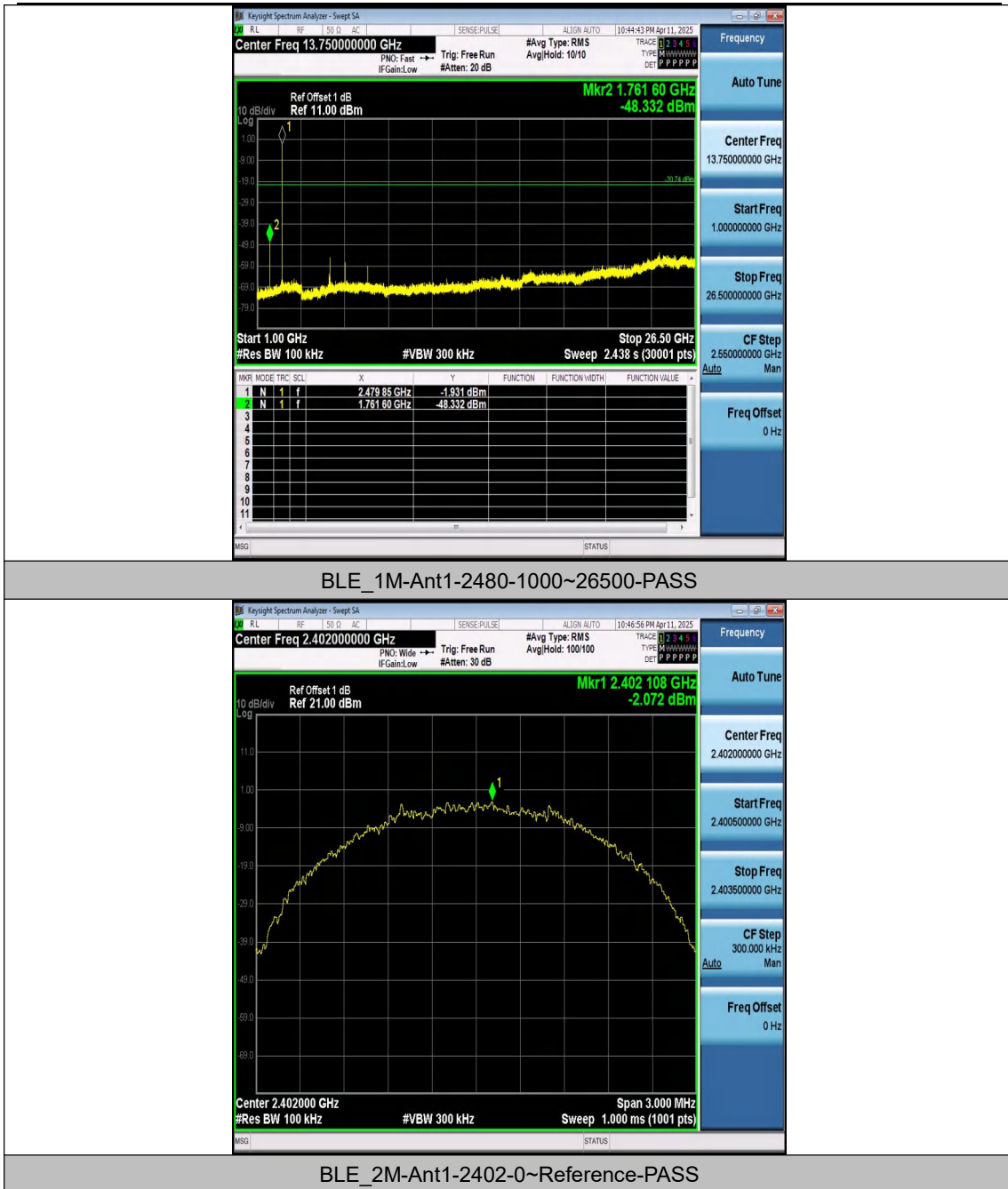
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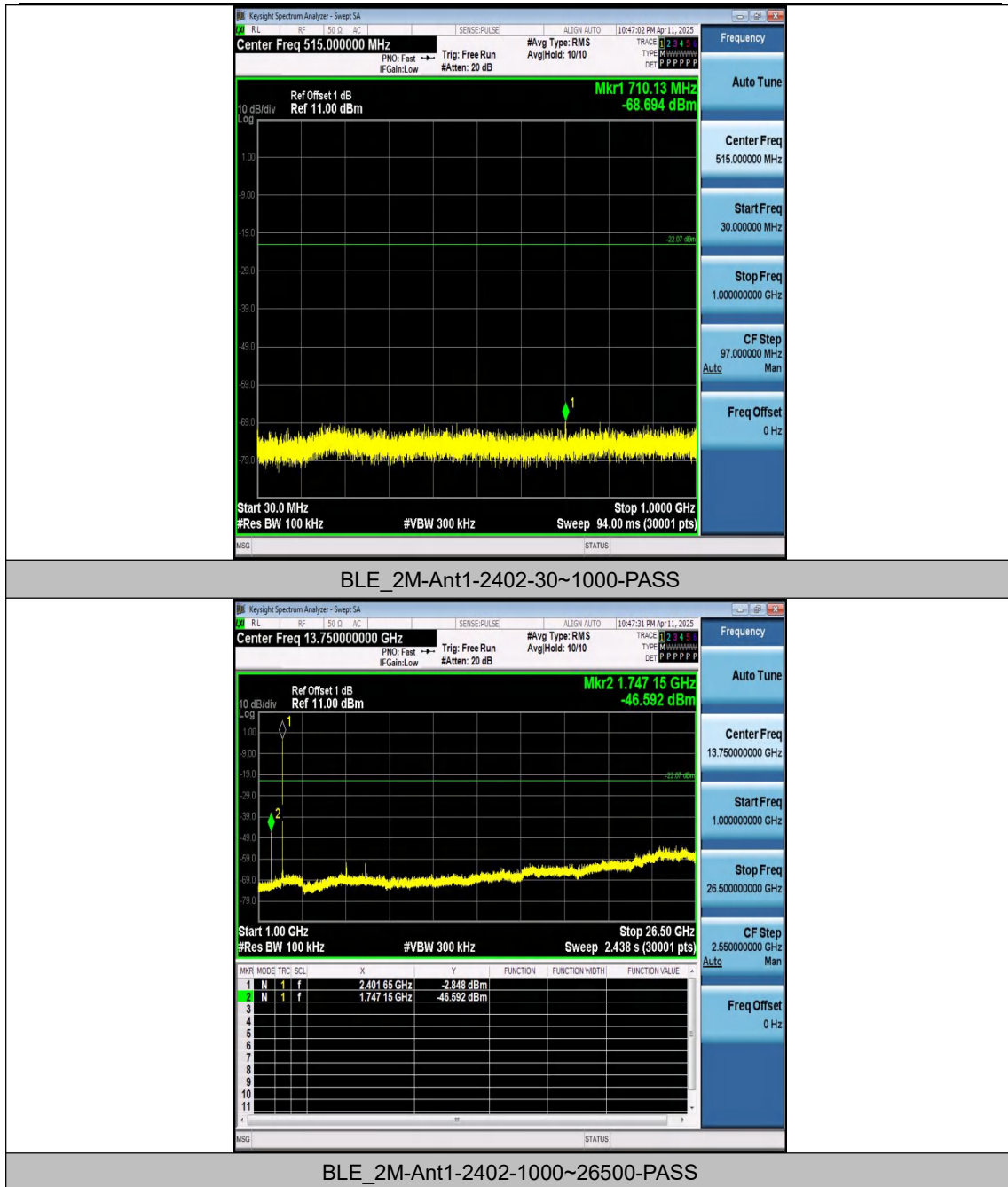
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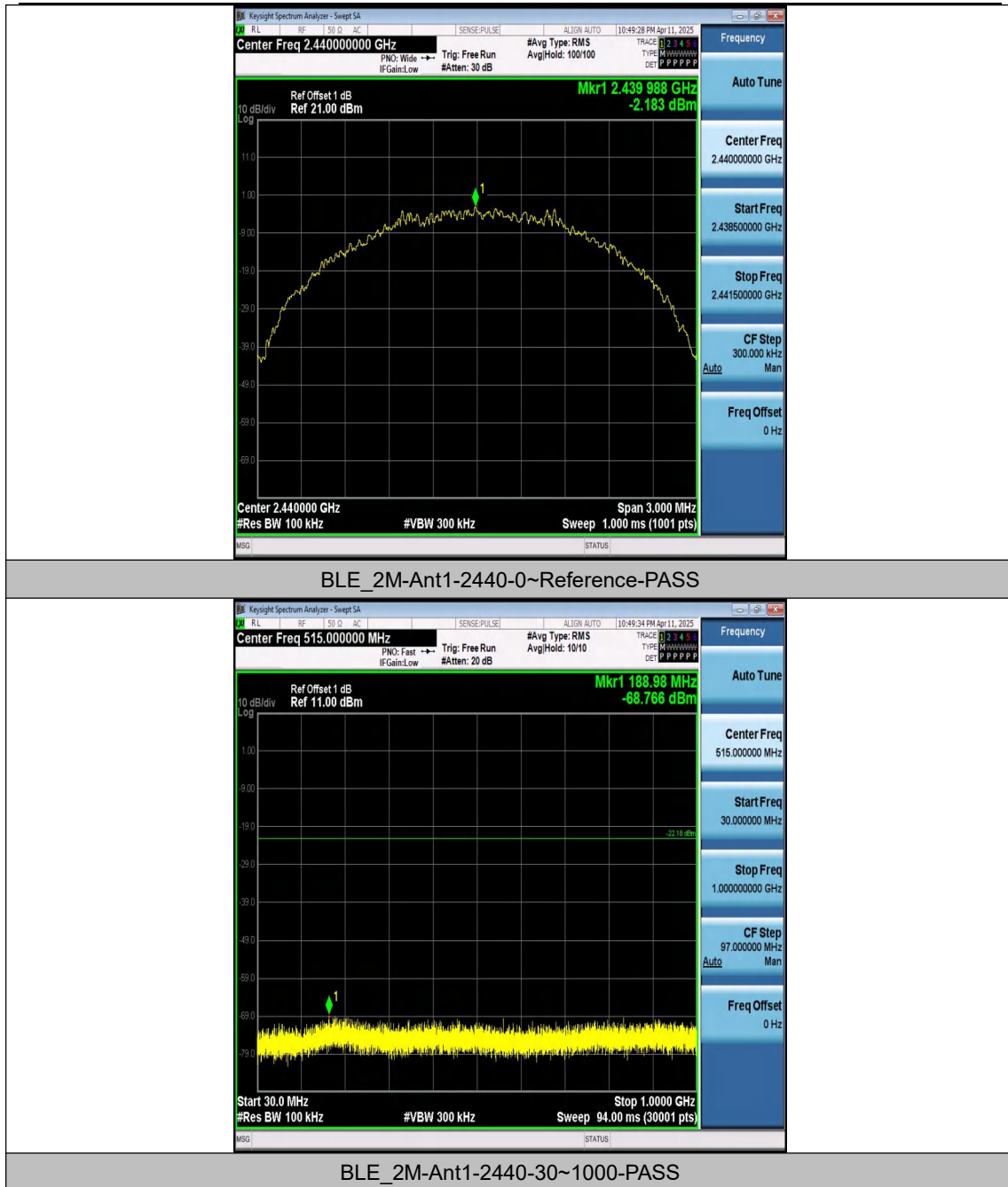
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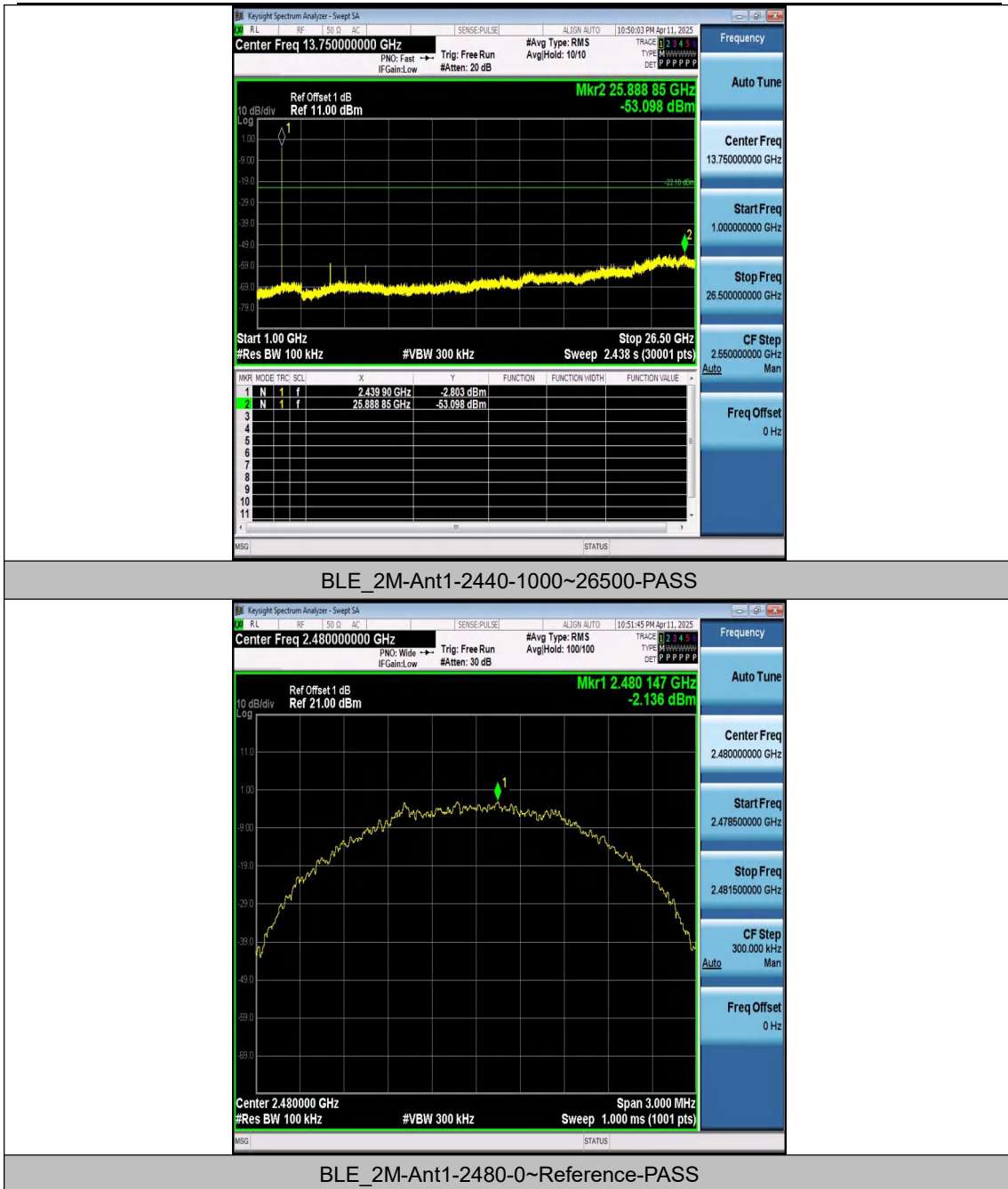
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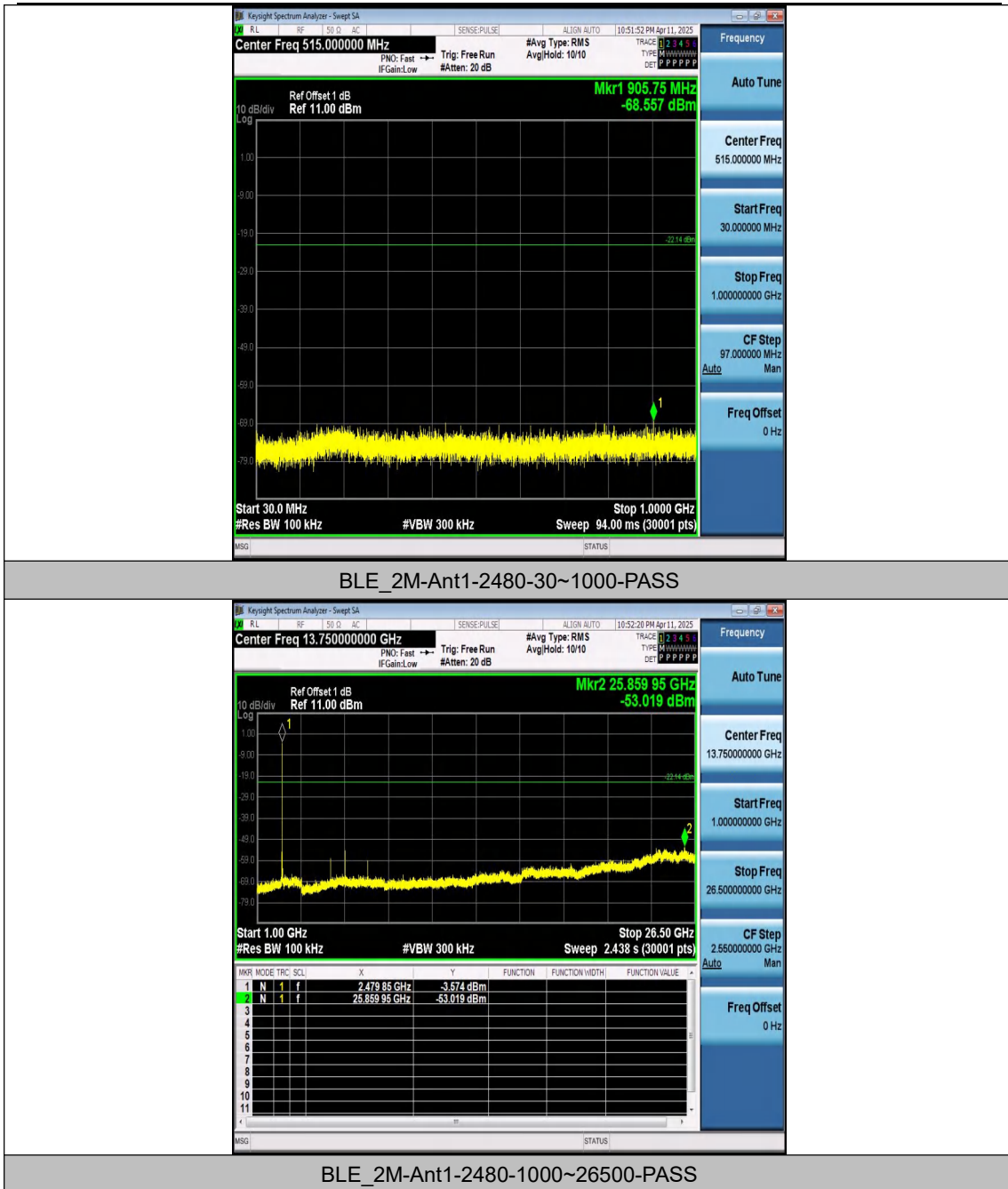
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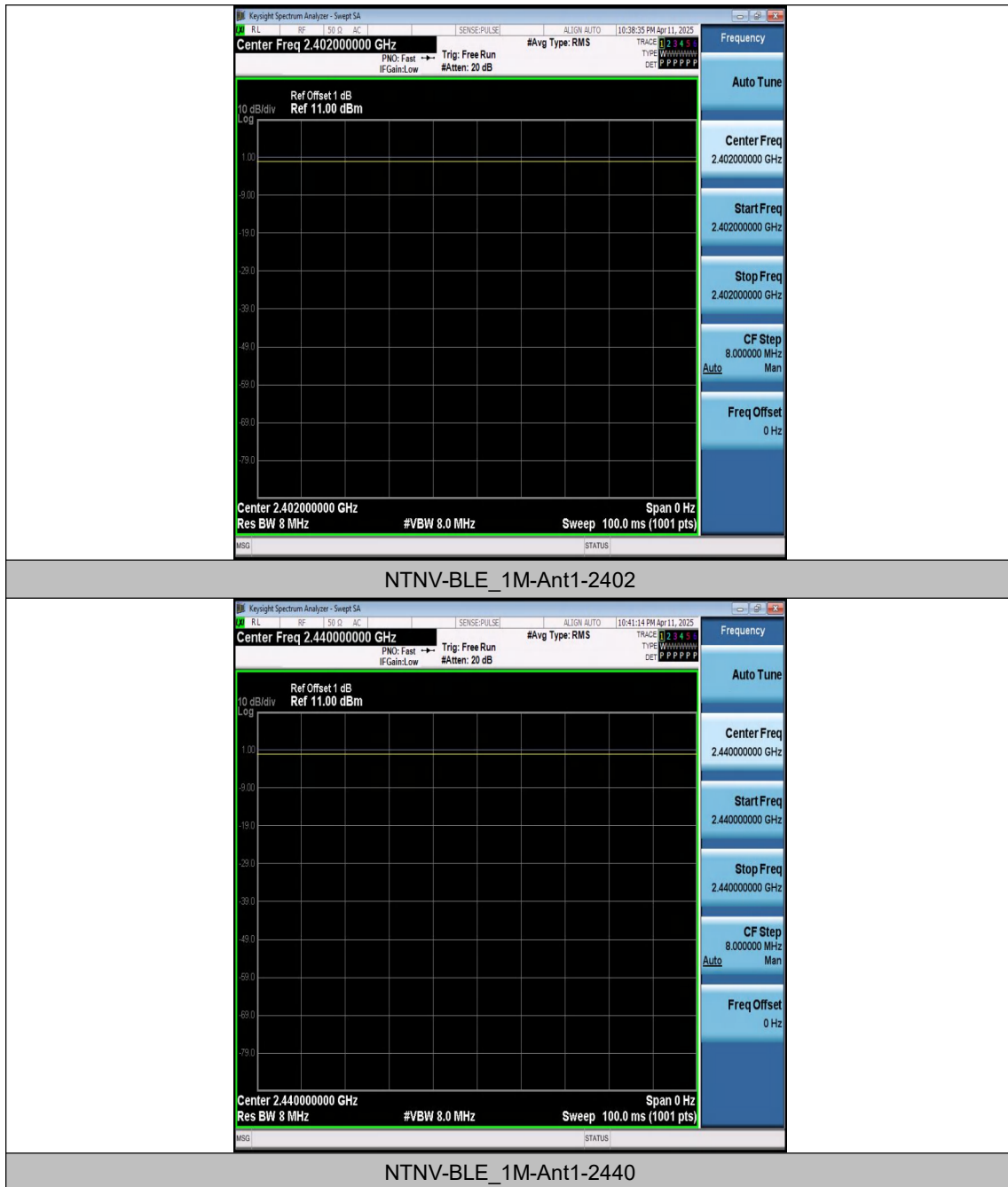
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	NaN
BLE_1M	Ant1	2440	0.00	0.00	100	NaN
BLE_1M	Ant1	2480	0.00	0.00	100	NaN
BLE_2M	Ant1	2402	0.00	0.00	100	NaN
BLE_2M	Ant1	2440	0.00	0.00	100	NaN
BLE_2M	Ant1	2480	0.00	0.00	100	NaN



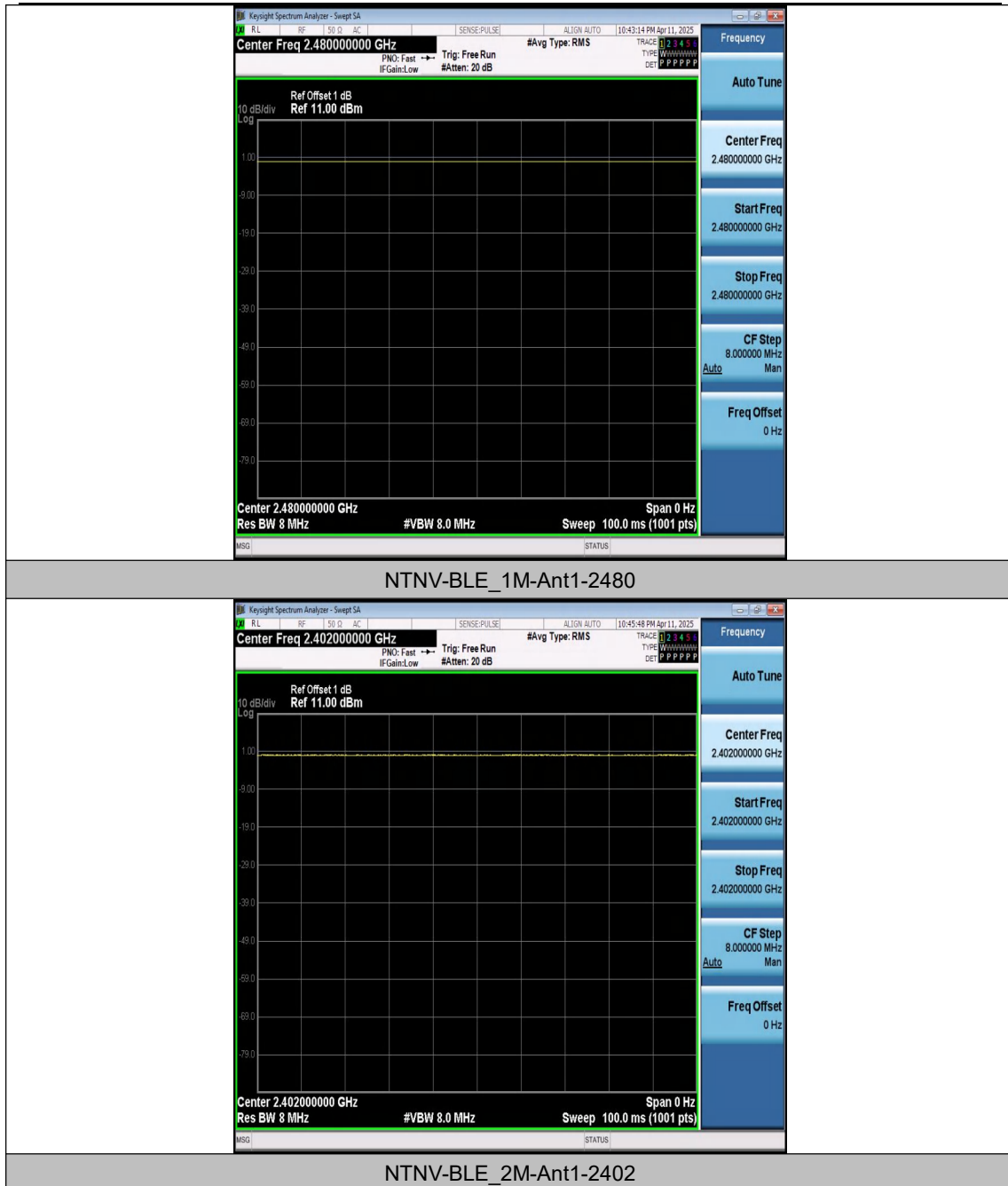
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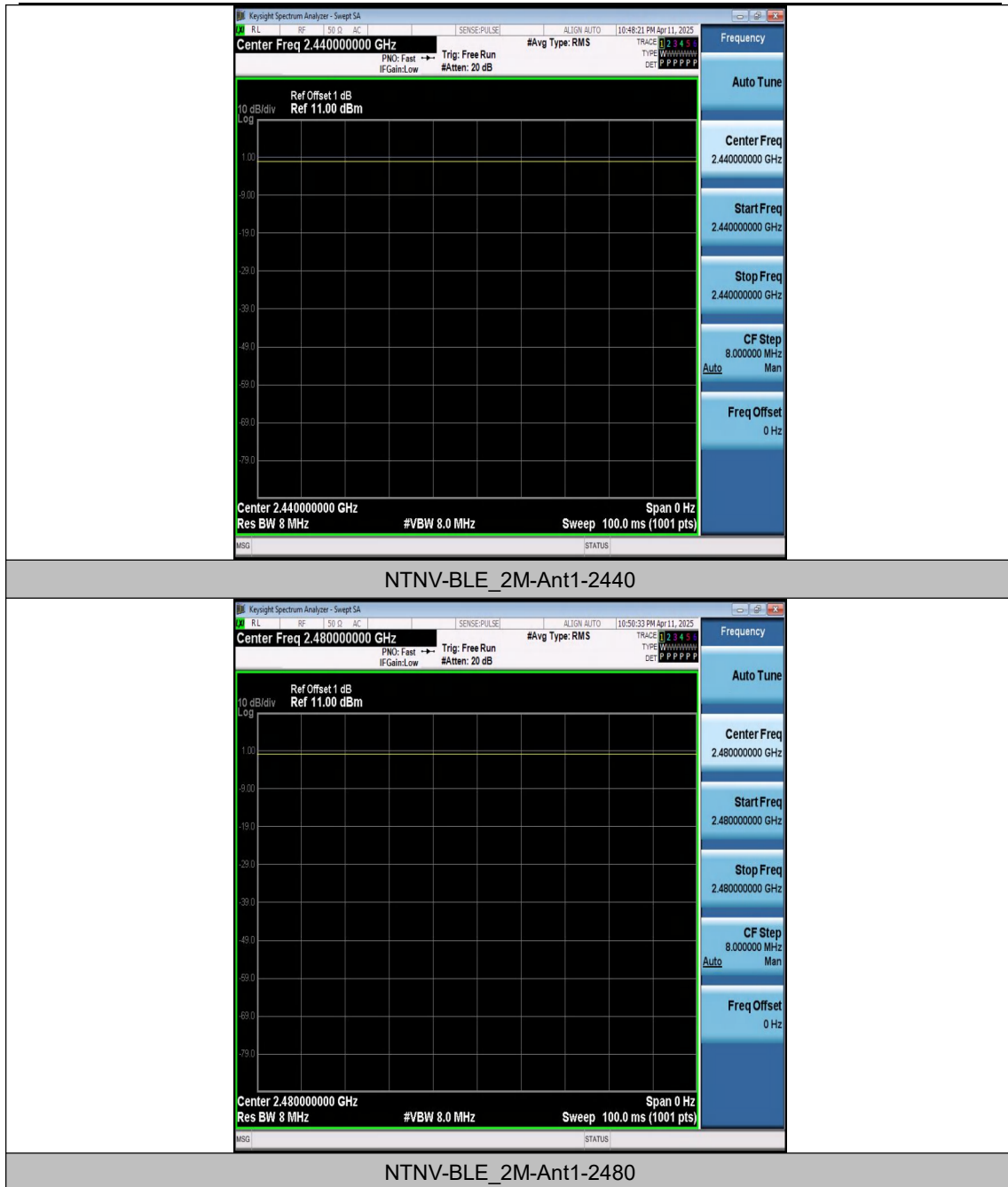
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