

Appendix Test Data

Report No.:	1812C50143512502	Test Sample No.:	1-2-2
Start Test Date:	2025.04.18	Finish Test Date:	2025.6.17
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.6°C	Relative Humidity:	49%
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	0.652	2401.688	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.688	2439.664	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.672	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.108	2401.448	2402.556	0.5	PASS
BLE_2M	Ant1	2440	1.104	2439.456	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.136	2479.444	2480.580	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	1.0298	2401.4967	2402.5265	---	---
BLE_1M	Ant1	2440	1.0250	2439.4965	2440.5215	---	---
BLE_1M	Ant1	2480	1.0259	2479.4980	2480.5239	---	---
BLE_2M	Ant1	2402	2.0617	2400.9900	2403.0517	---	---
BLE_2M	Ant1	2440	2.0719	2438.9876	2441.0595	---	---
BLE_2M	Ant1	2480	2.0700	2478.9874	2481.0574	---	---

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Test Graphs



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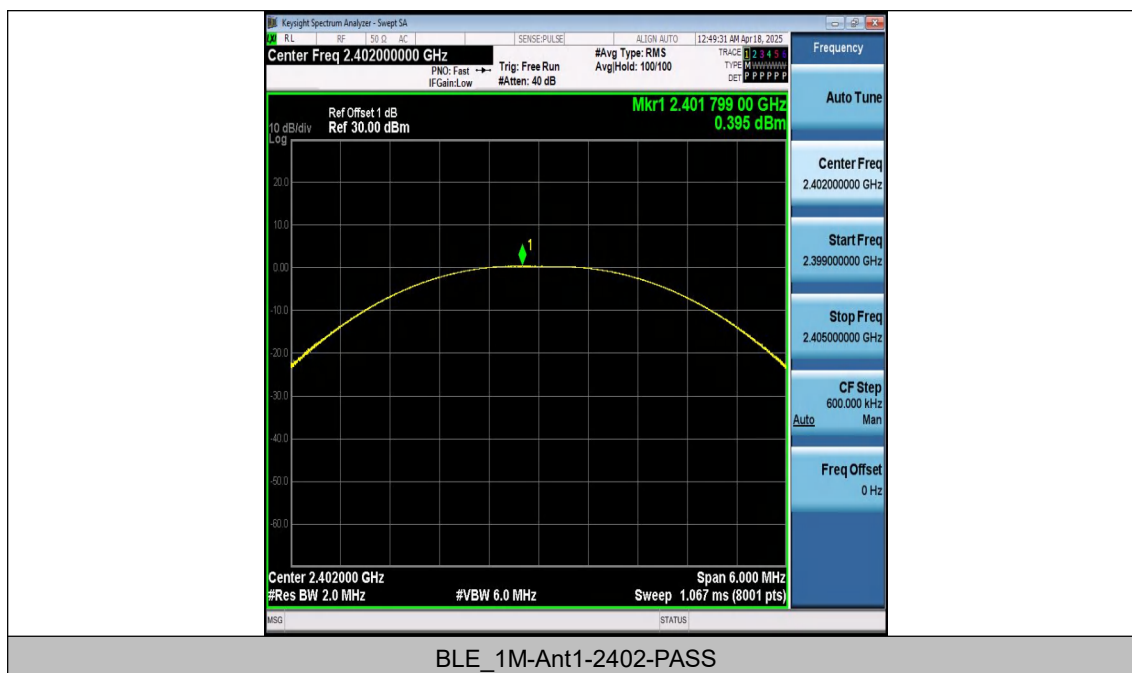


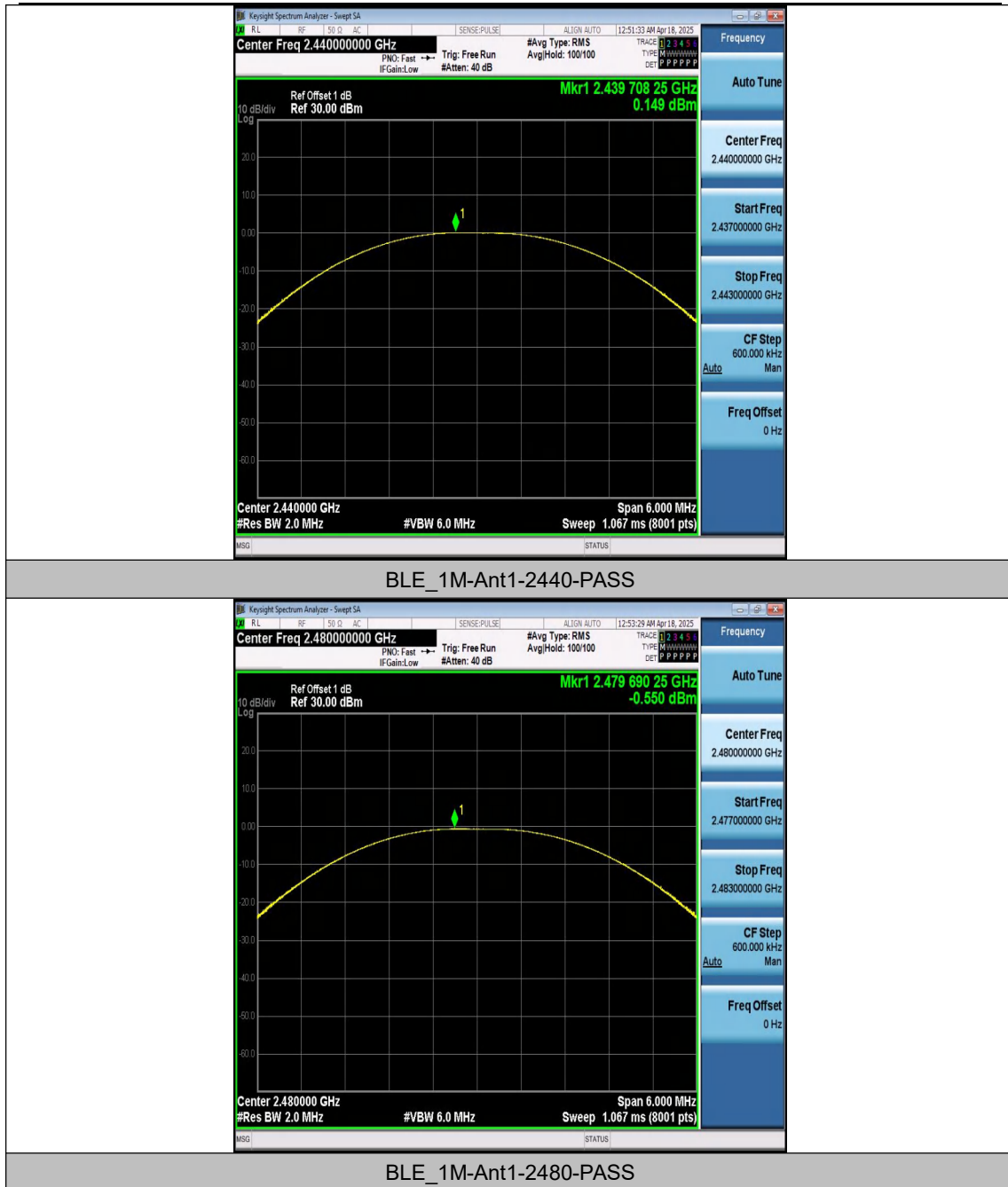
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.40	≤30	PASS
BLE_1M	Ant1	2440	0.15	≤30	PASS
BLE_1M	Ant1	2480	-0.55	≤30	PASS
BLE_2M	Ant1	2402	0.51	≤30	PASS
BLE_2M	Ant1	2440	0.26	≤30	PASS
BLE_2M	Ant1	2480	-0.39	≤30	PASS

Test Graphs Peak

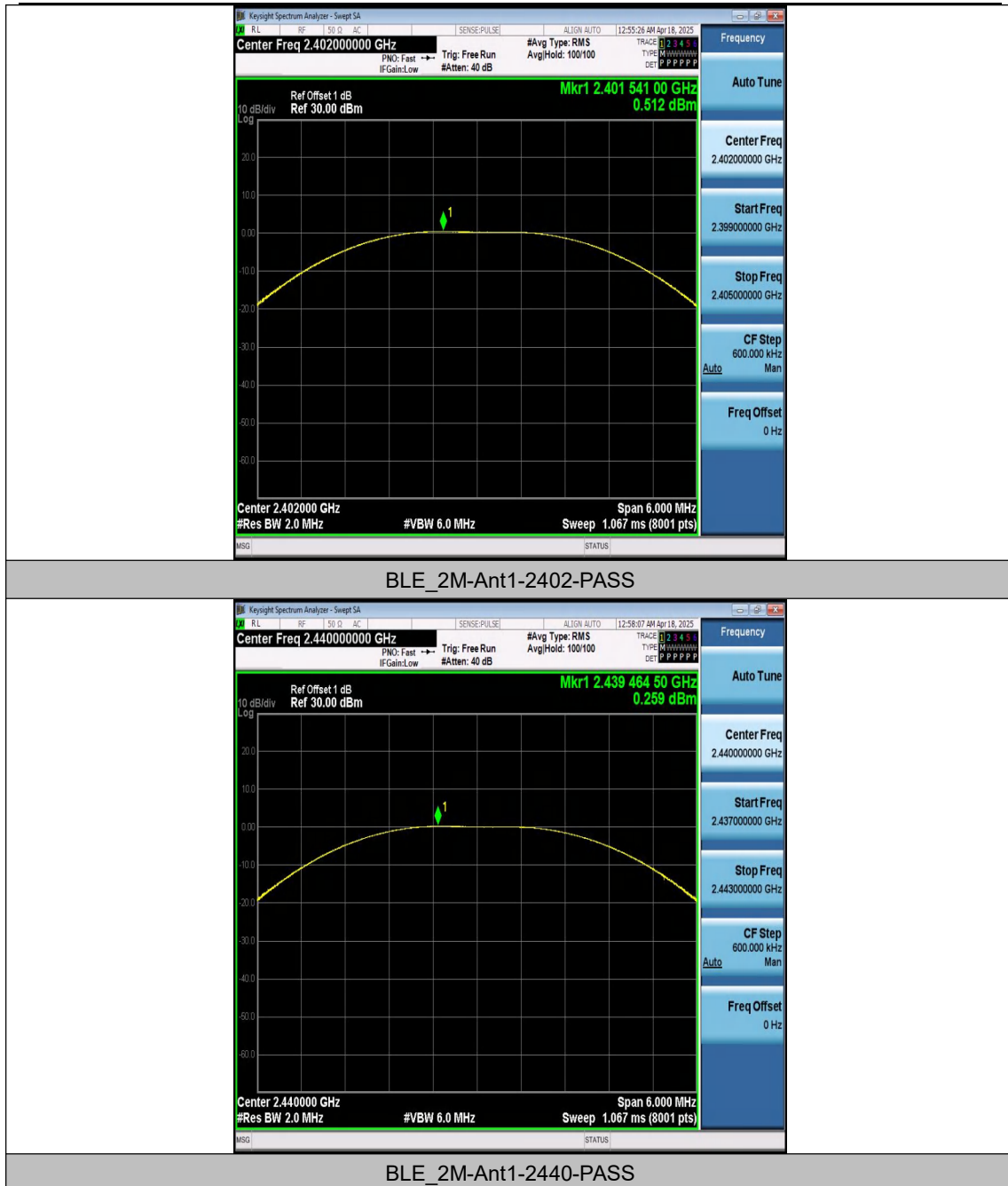




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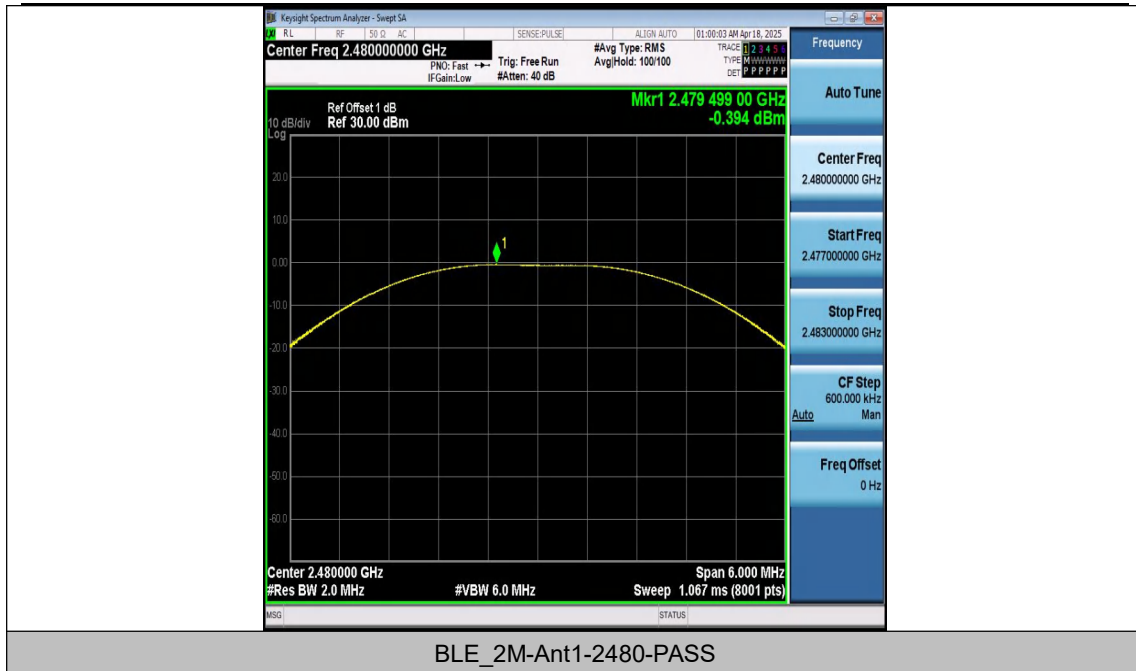


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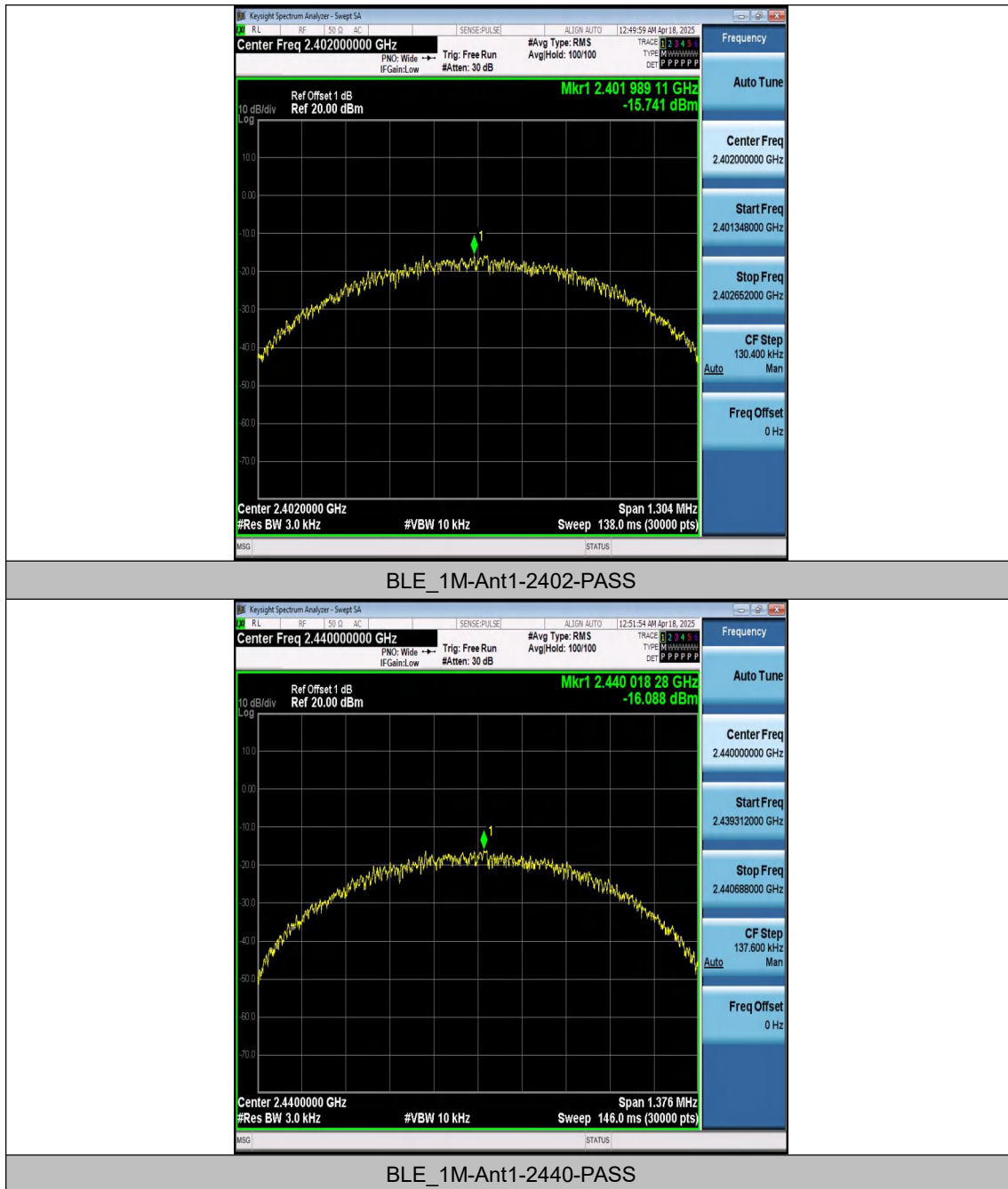
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.74	≤8.00	PASS
BLE_1M	Ant1	2440	-16.09	≤8.00	PASS
BLE_1M	Ant1	2480	-16.76	≤8.00	PASS
BLE_2M	Ant1	2402	-18.28	≤8.00	PASS
BLE_2M	Ant1	2440	-18.21	≤8.00	PASS
BLE_2M	Ant1	2480	-18.81	≤8.00	PASS



Test Graphs

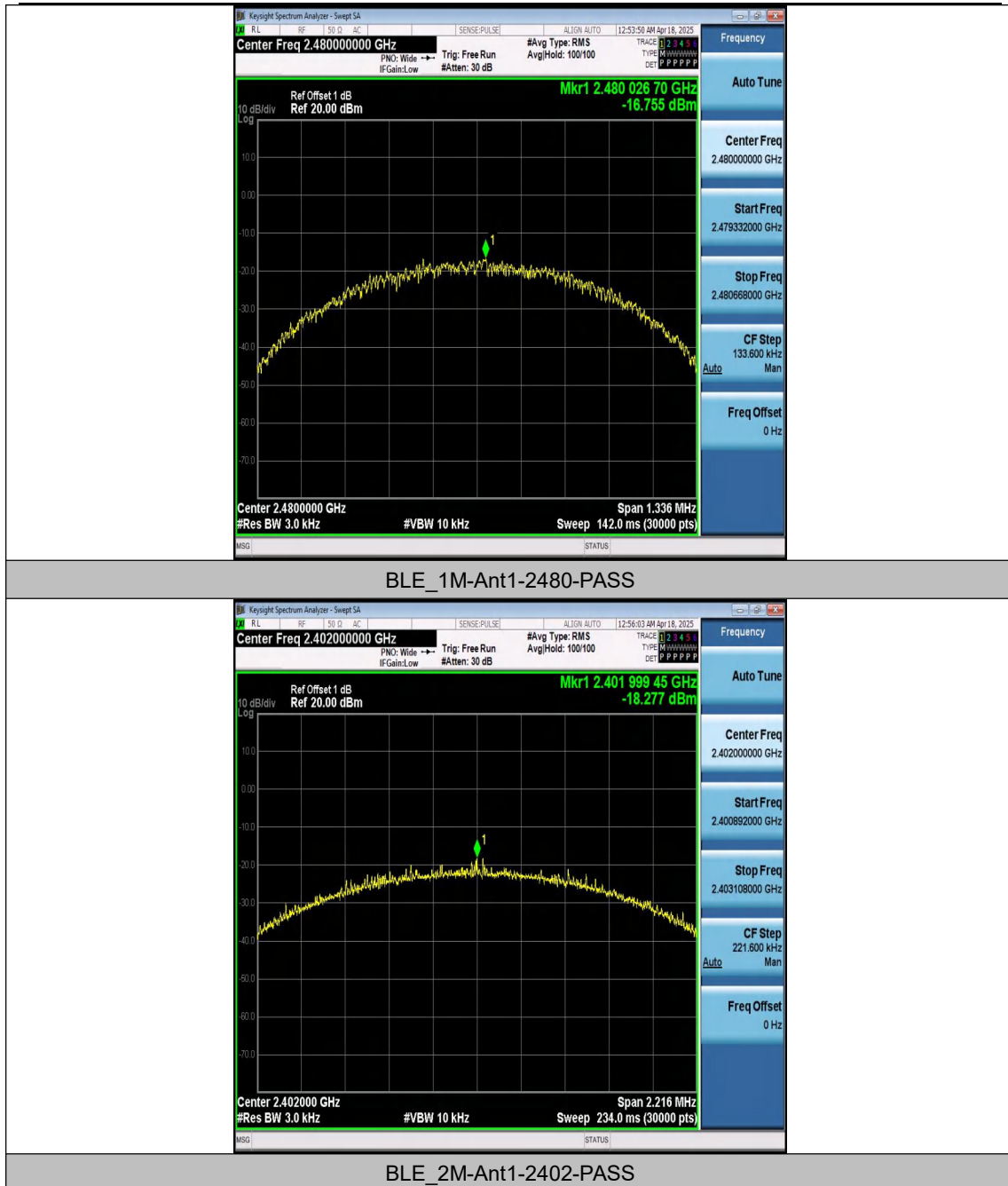


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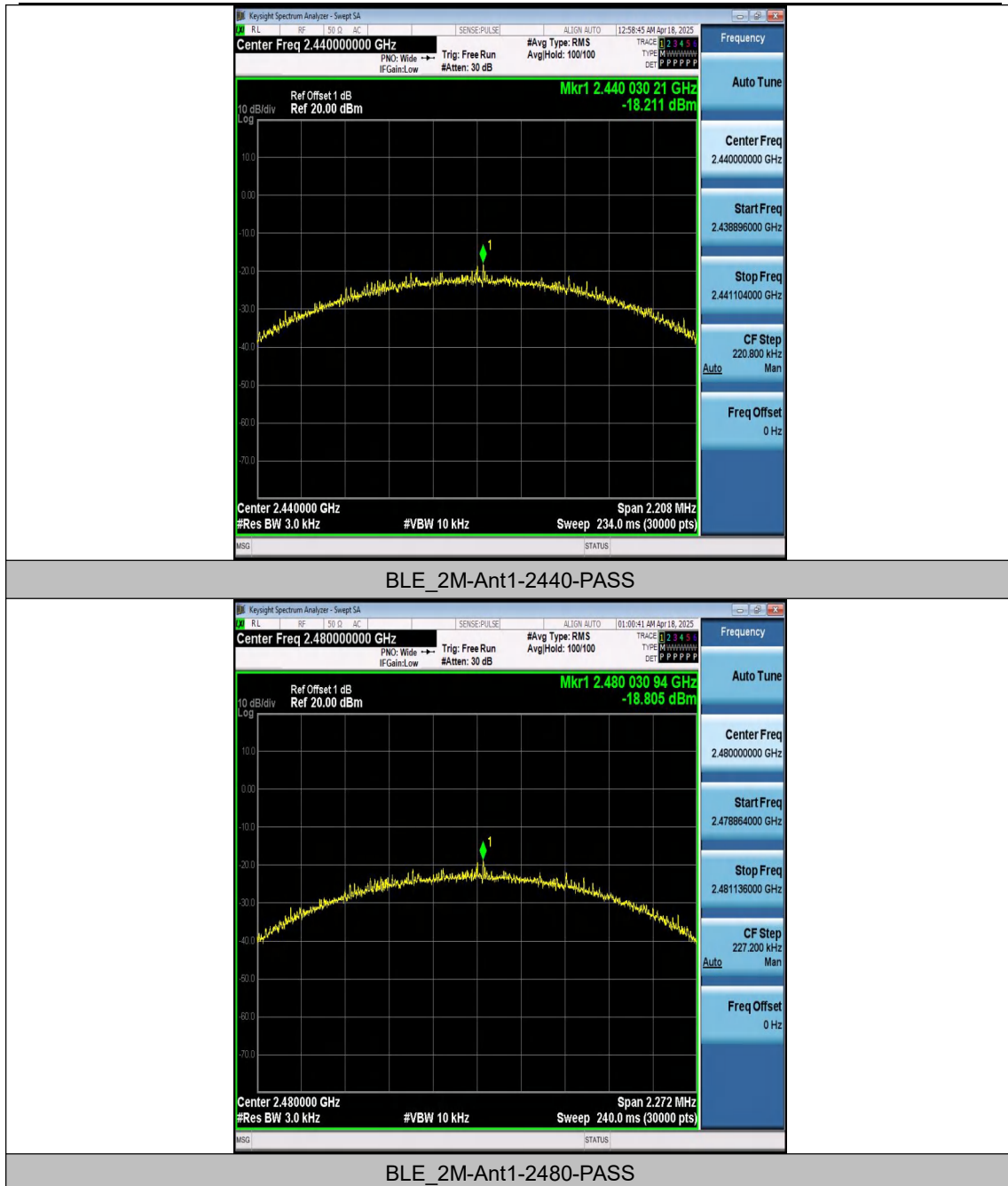
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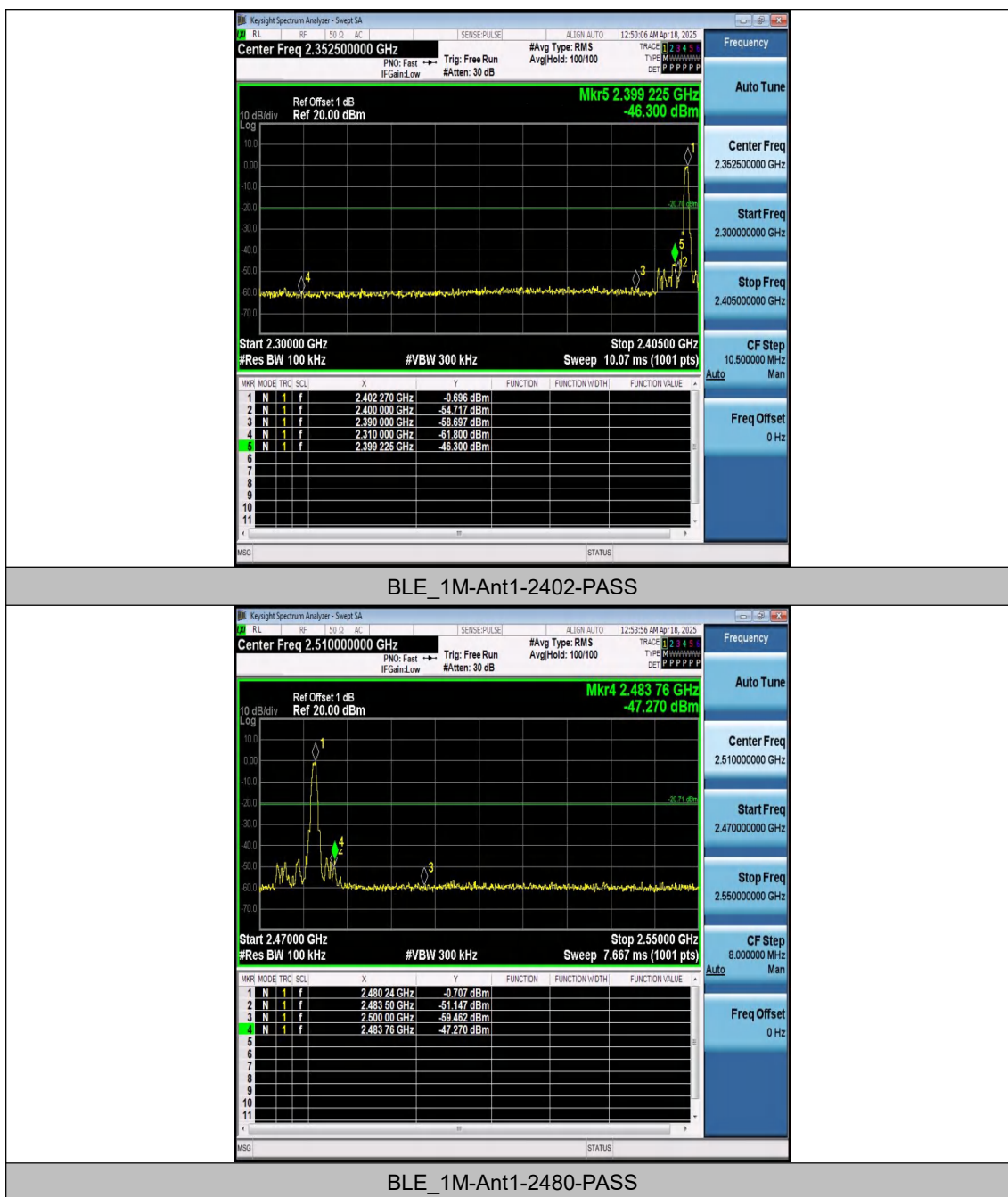
Appendix E: Band edge measurements

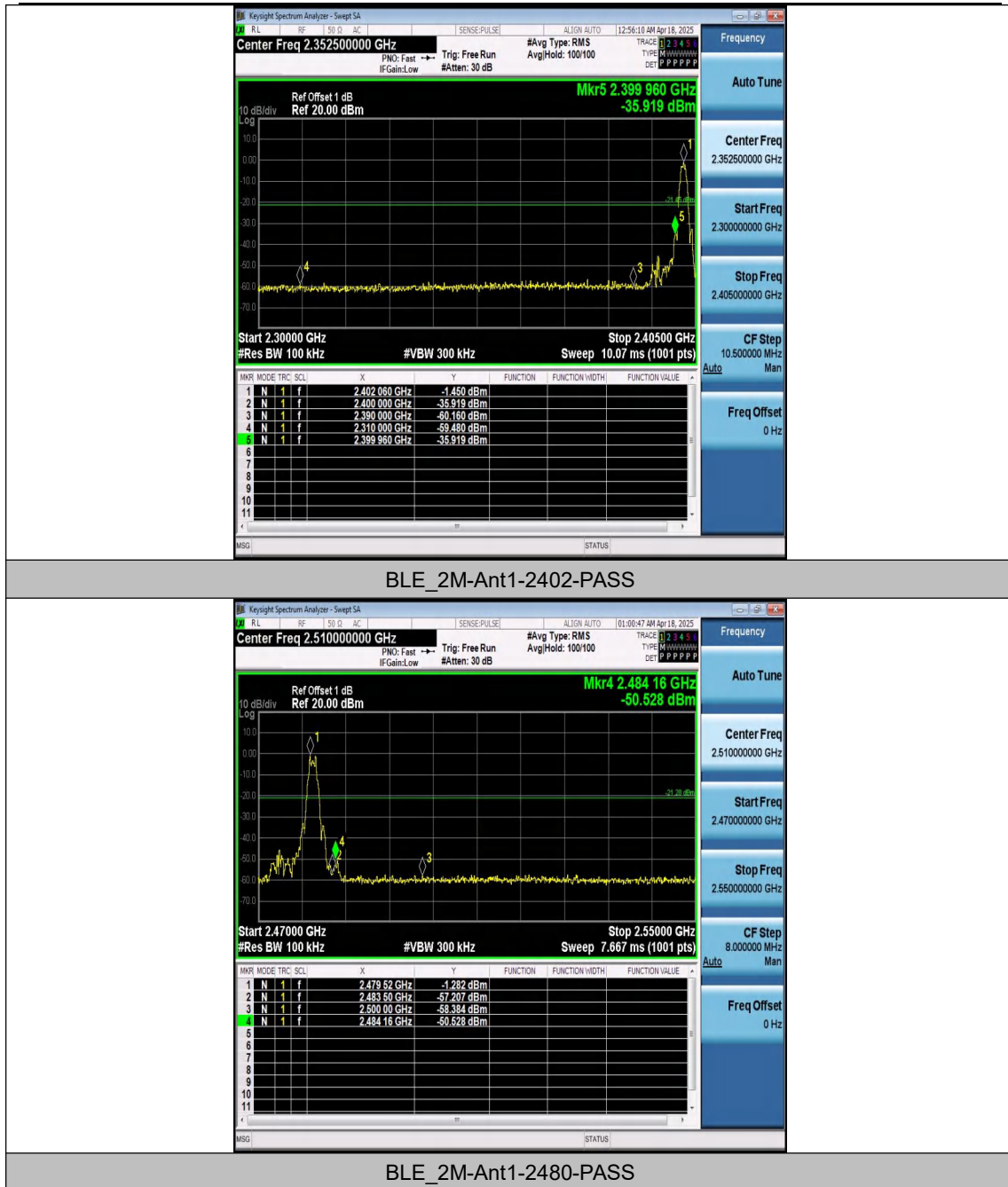
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.70	-46.3	≤-20.7	PASS
BLE_1M	Ant1	High	2480	-0.71	-47.27	≤-20.71	PASS
BLE_2M	Ant1	Low	2402	-1.45	-35.92	≤-21.45	PASS
BLE_2M	Ant1	High	2480	-1.28	-50.53	≤-21.28	PASS



Test Graphs





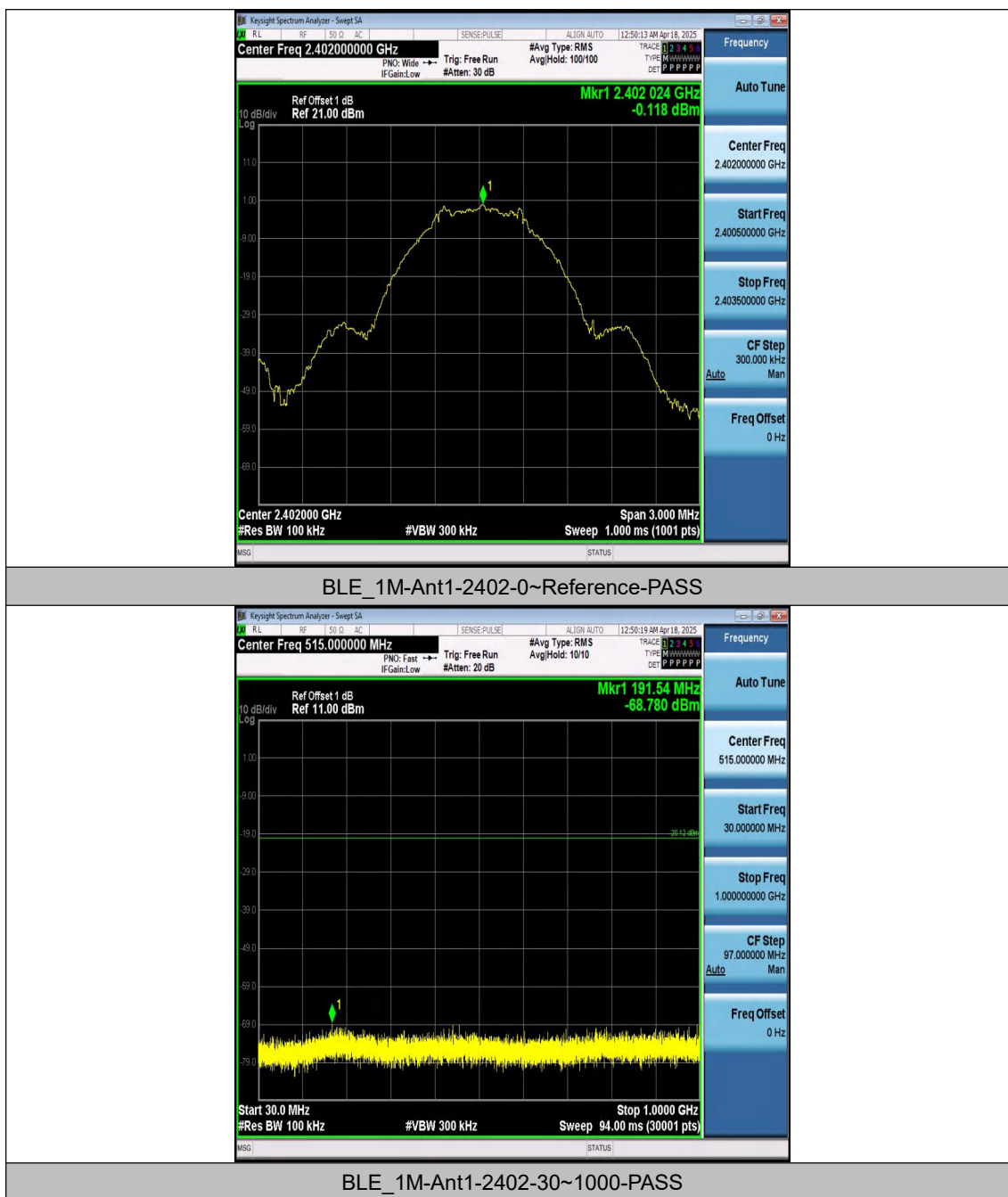
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.12	-0.12	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.12	-68.78	≤-20.12	PASS
BLE_1M	Ant1	2402	1000~26500	-0.12	-47.15	≤-20.12	PASS
BLE_1M	Ant1	2440	0~Reference	-0.88	-0.88	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.88	-68.39	≤-20.88	PASS
BLE_1M	Ant1	2440	1000~26500	-0.88	-45.27	≤-20.88	PASS
BLE_1M	Ant1	2480	0~Reference	-1.21	-1.21	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.21	-69.1	≤-21.21	PASS
BLE_1M	Ant1	2480	1000~26500	-1.21	-42.6	≤-21.21	PASS
BLE_2M	Ant1	2402	0~Reference	-0.86	-0.86	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.86	-69.19	≤-20.86	PASS
BLE_2M	Ant1	2402	1000~26500	-0.86	-46.69	≤-20.86	PASS
BLE_2M	Ant1	2440	0~Reference	-1.09	-1.09	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.09	-69.18	≤-21.09	PASS
BLE_2M	Ant1	2440	1000~26500	-1.09	-44.77	≤-21.09	PASS
BLE_2M	Ant1	2480	0~Reference	-1.79	-1.79	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.79	-68.77	≤-21.79	PASS
BLE_2M	Ant1	2480	1000~26500	-1.79	-42.12	≤-21.79	PASS



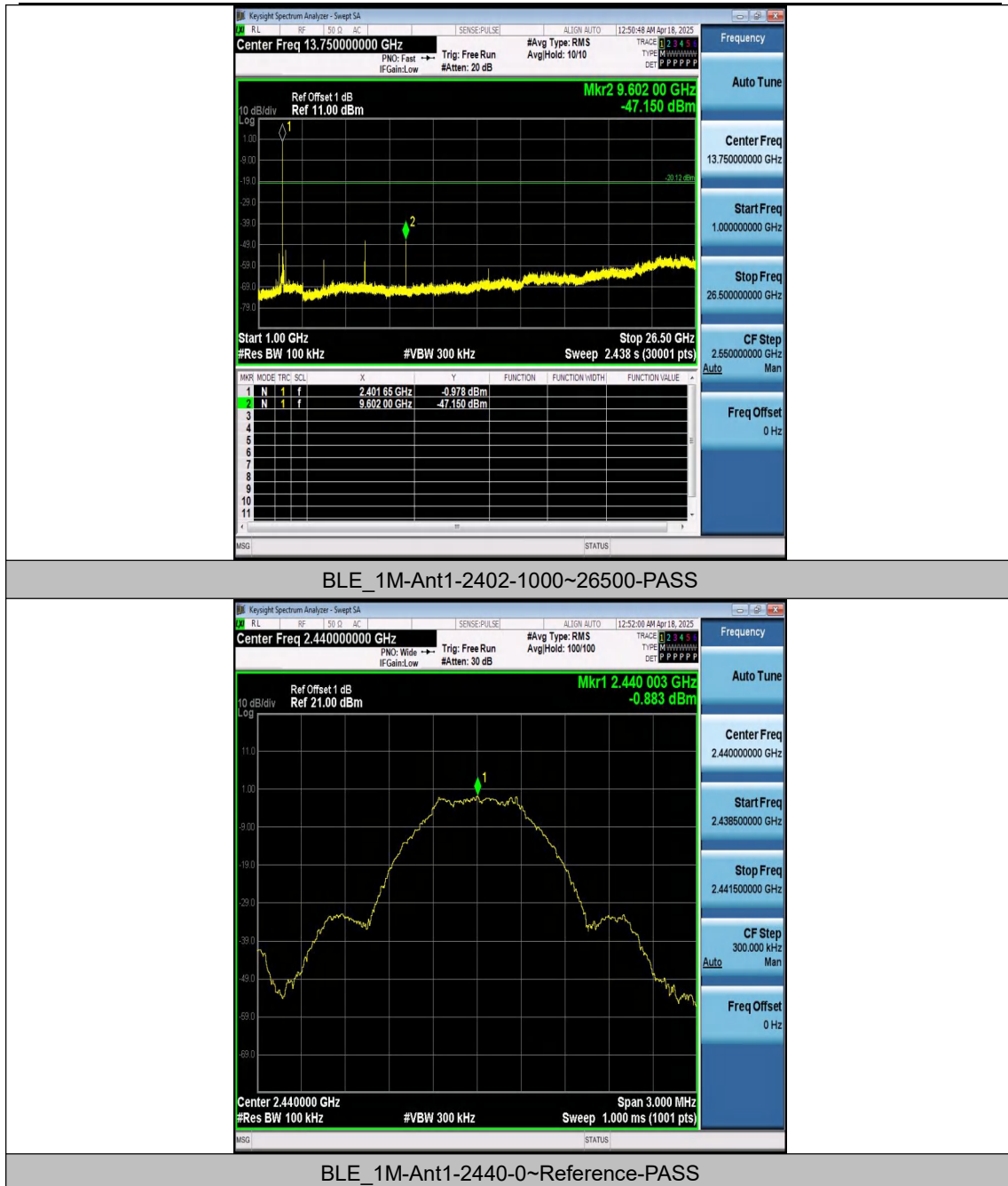
Test Graphs

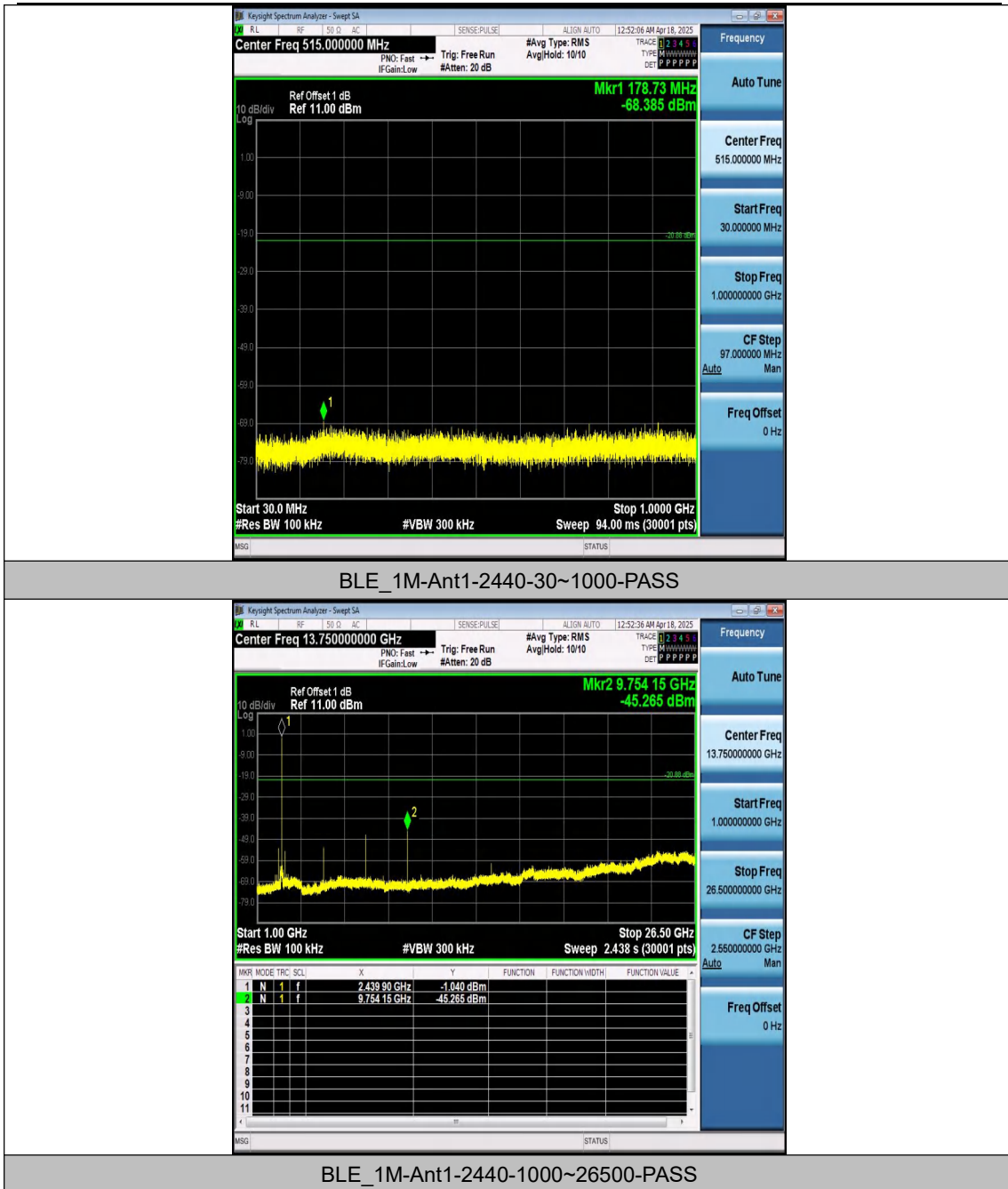


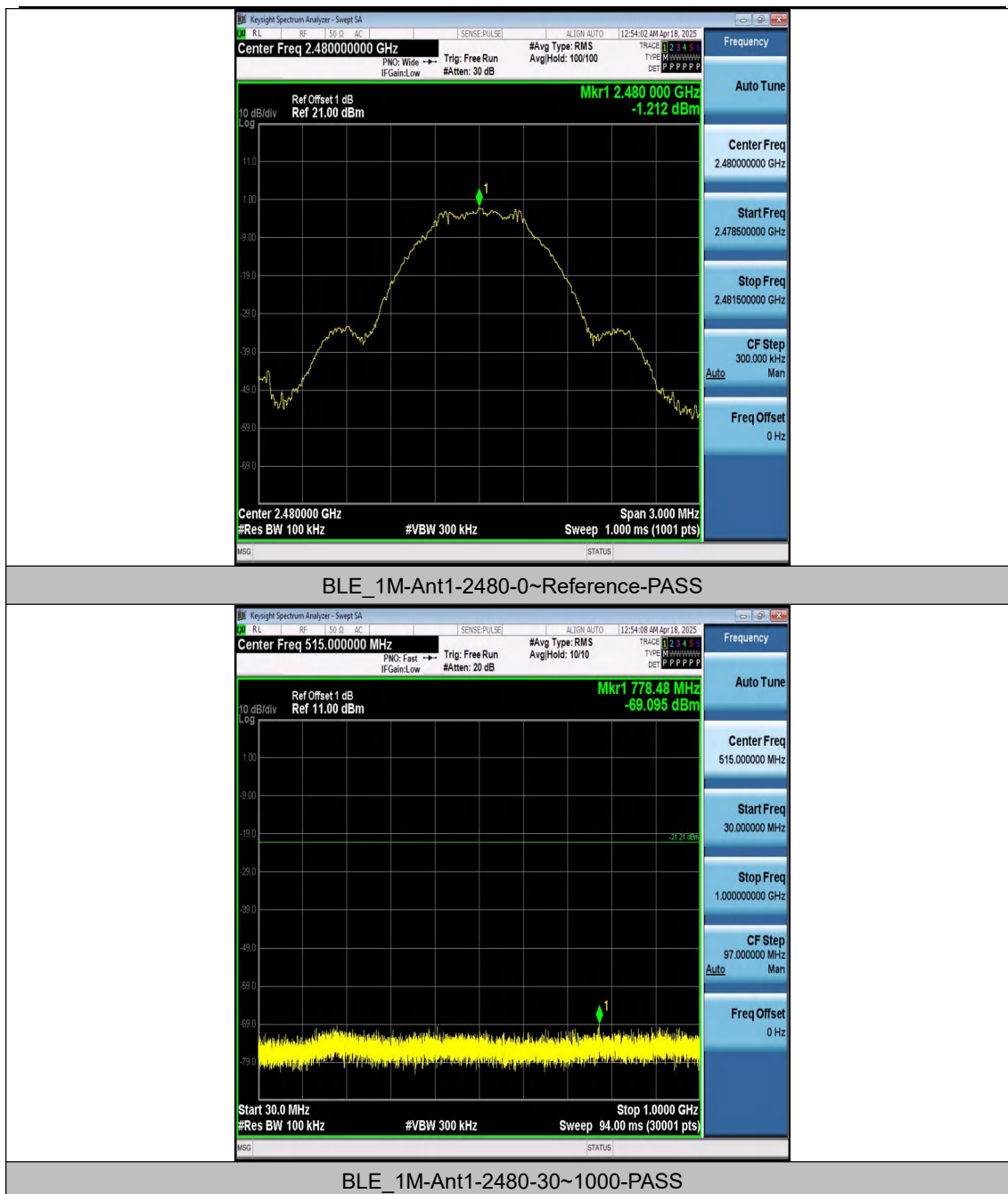
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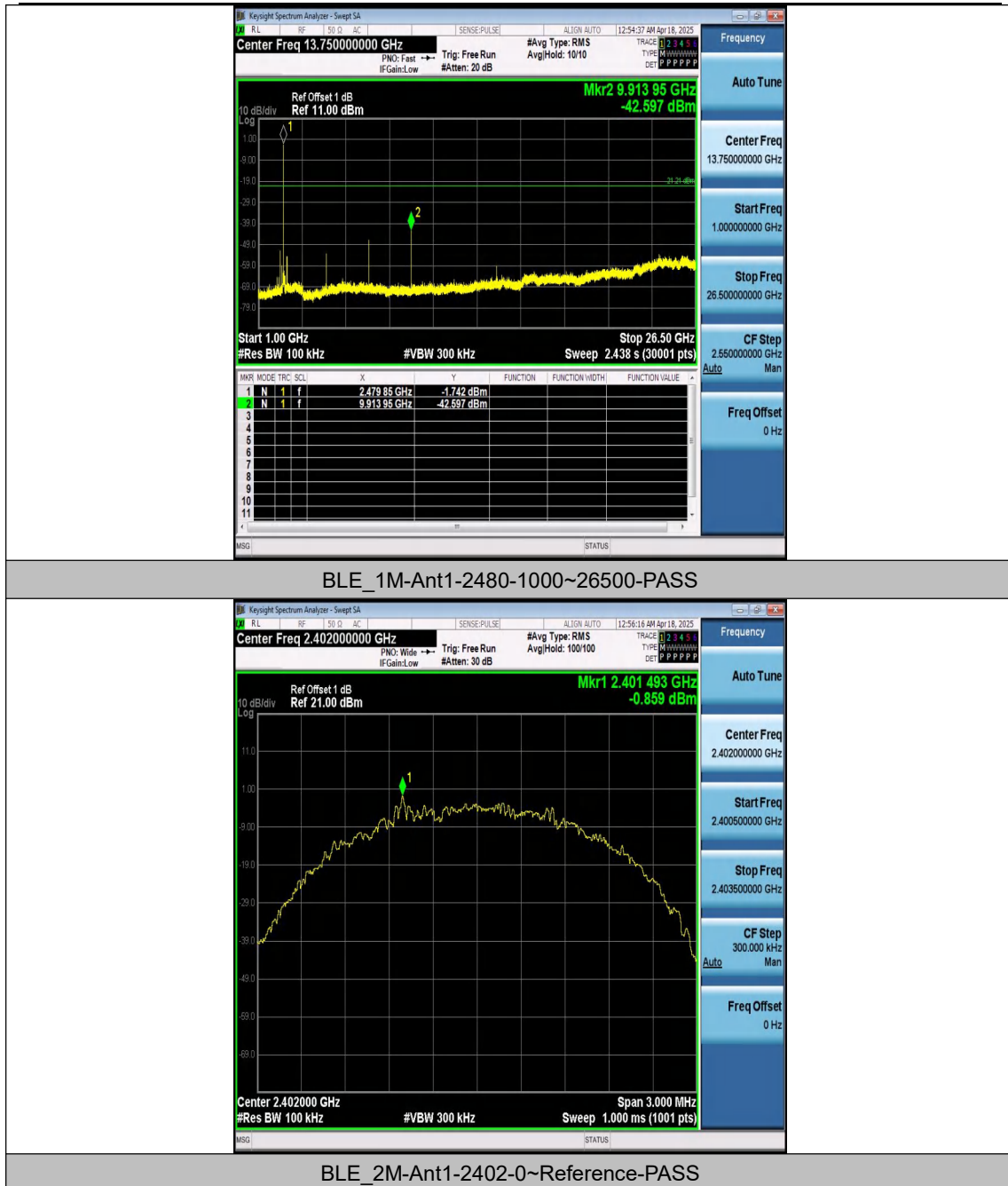




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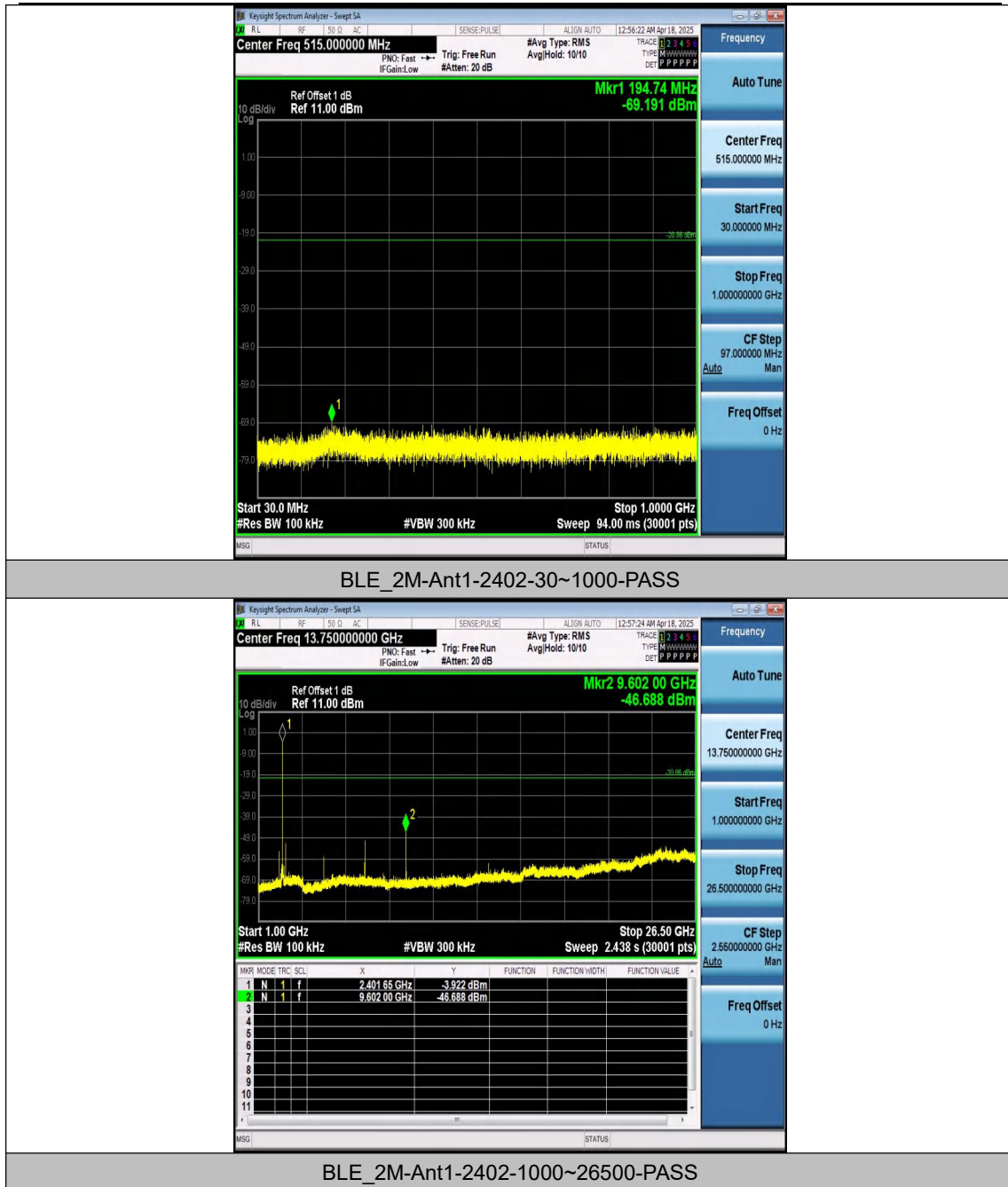


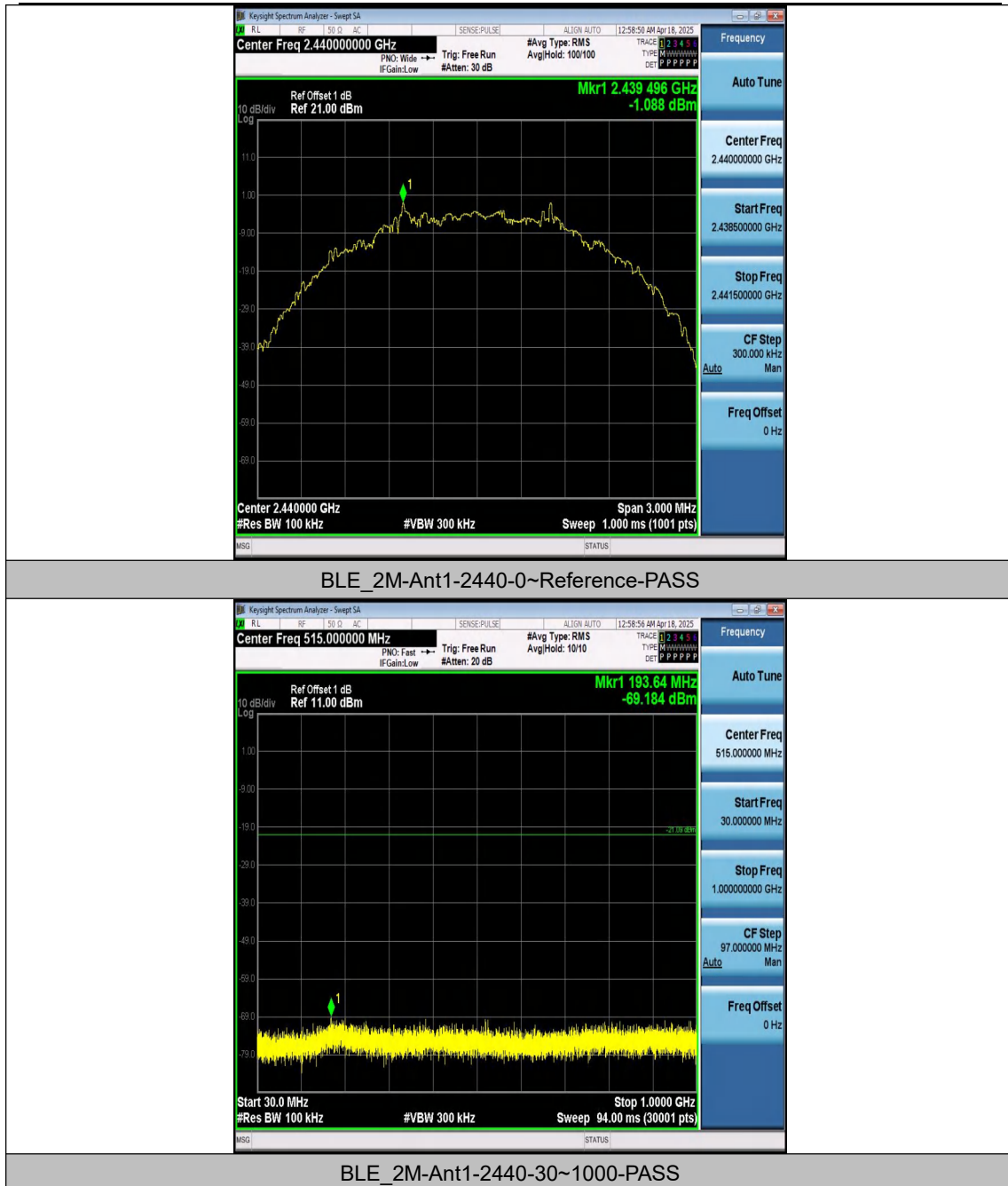
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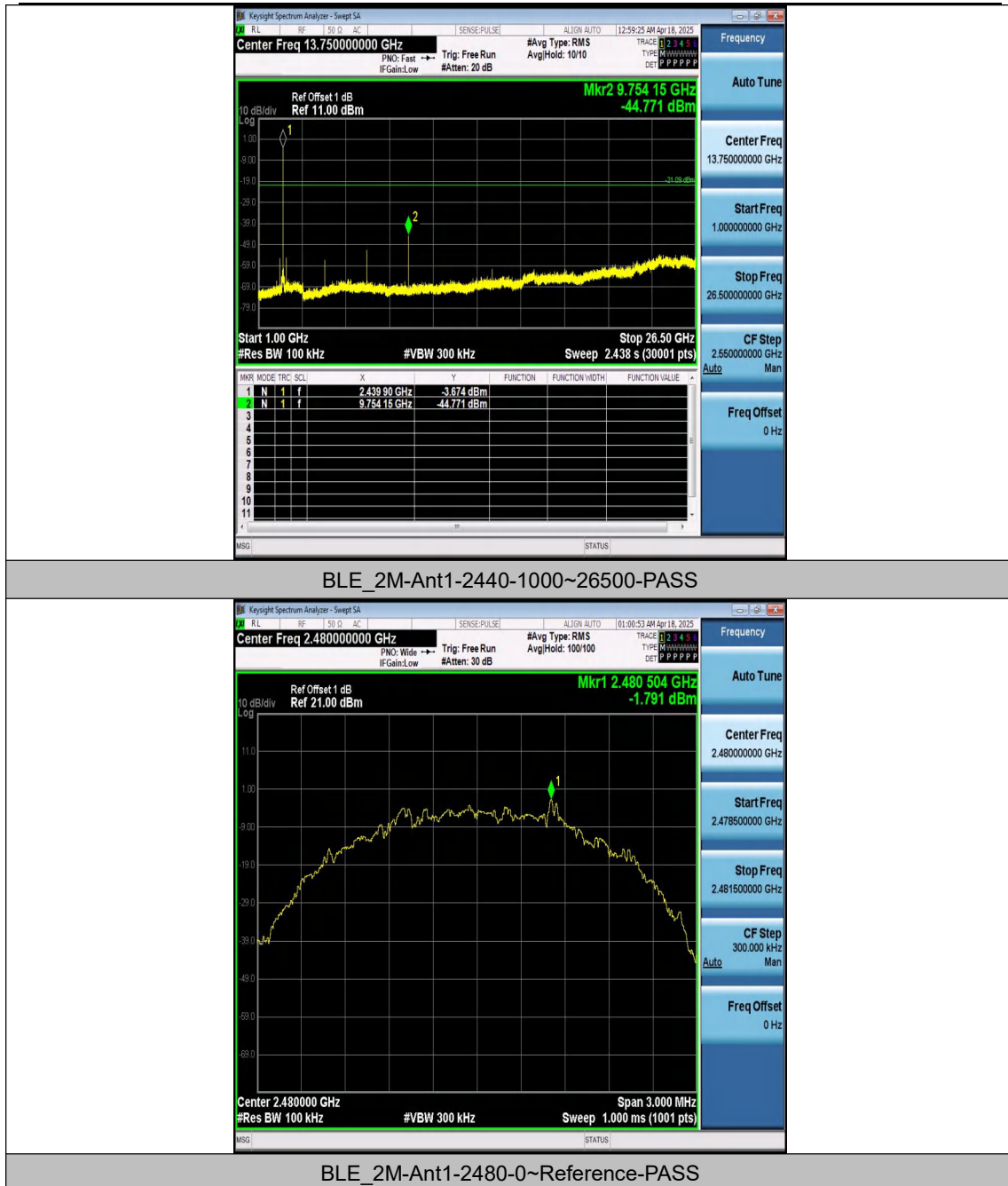


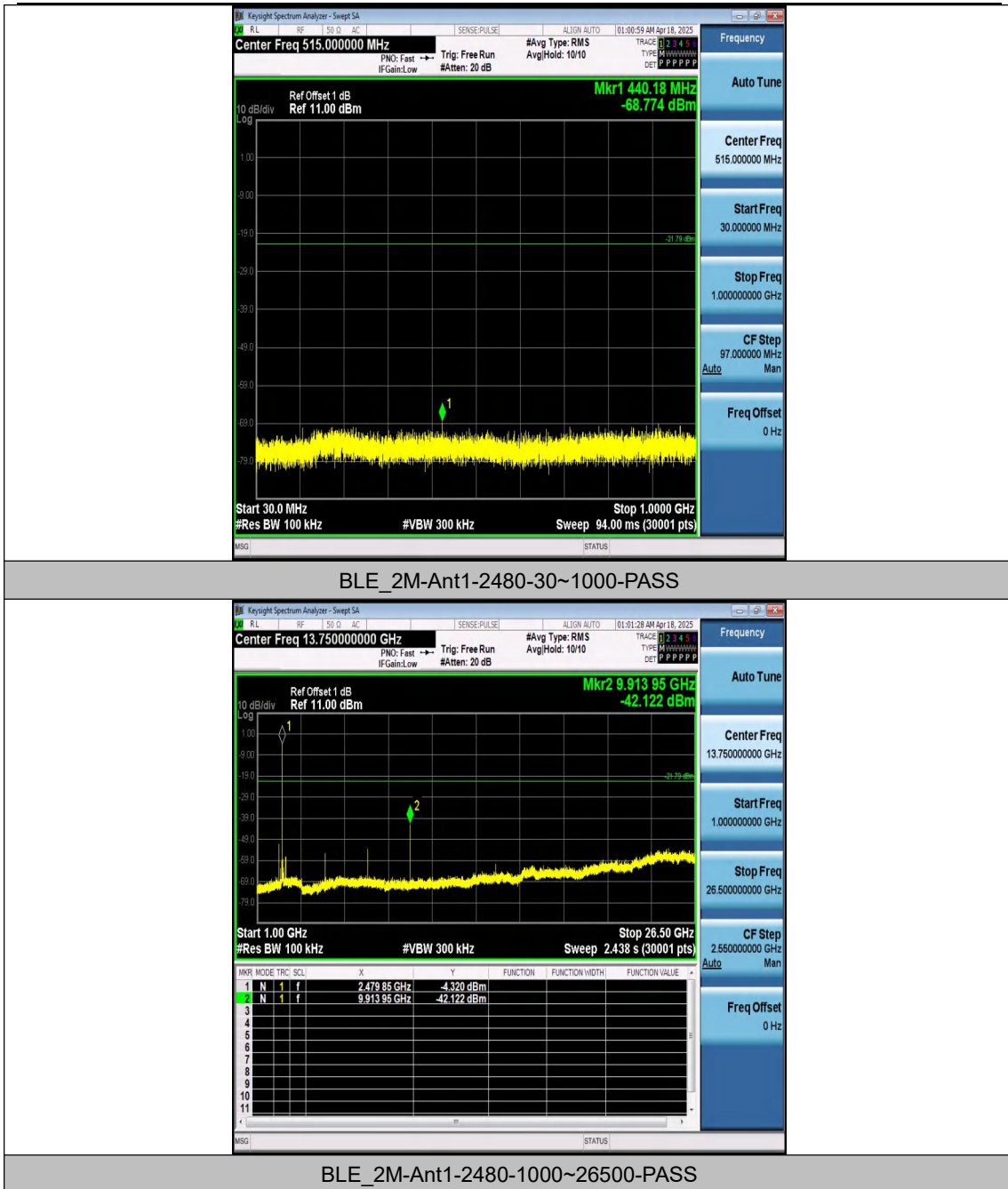


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.51	43.03	3.66
BLE_2M	Ant1	2440	1.06	2.49	42.57	3.71
BLE_2M	Ant1	2480	1.06	2.49	42.57	3.71

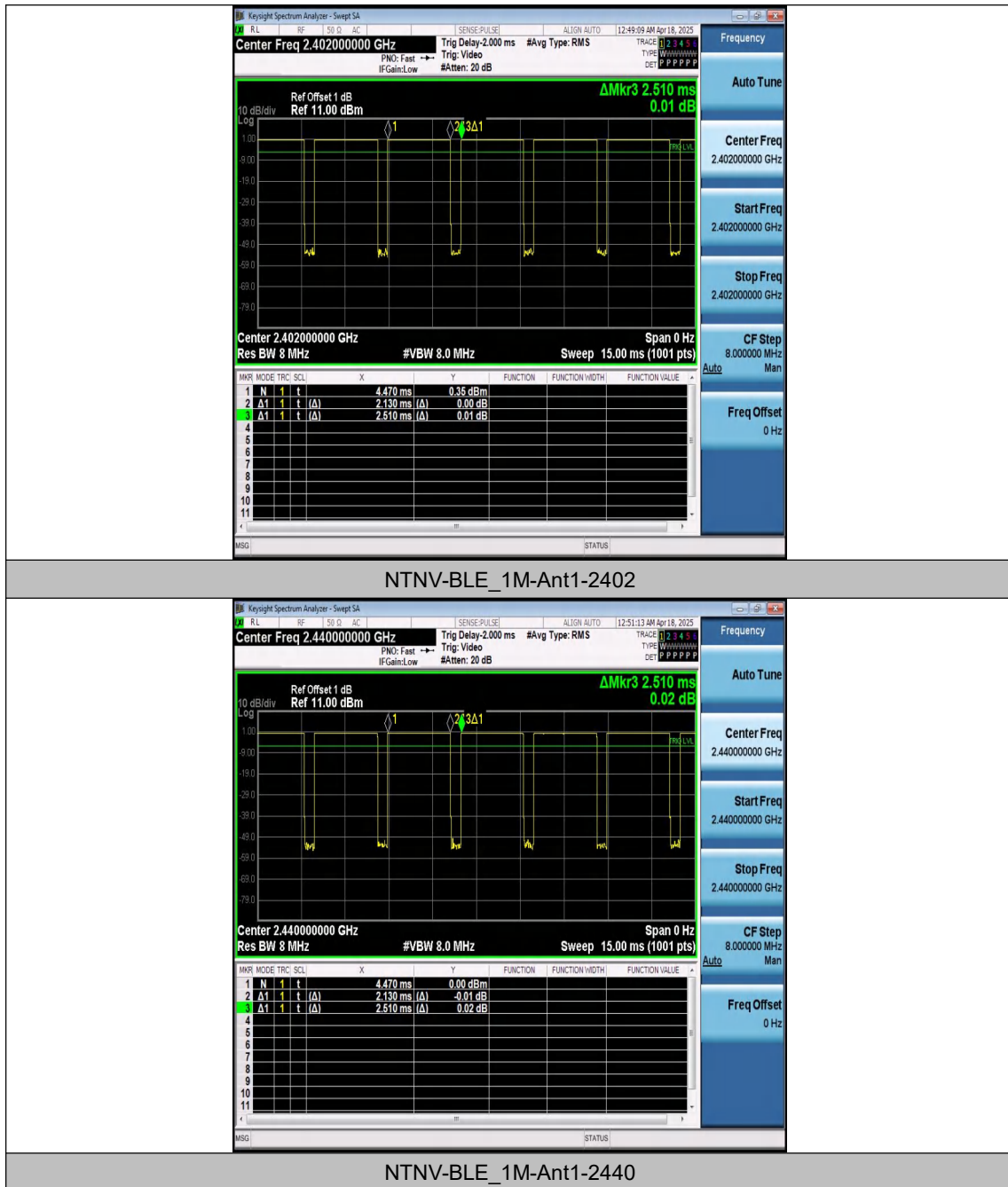
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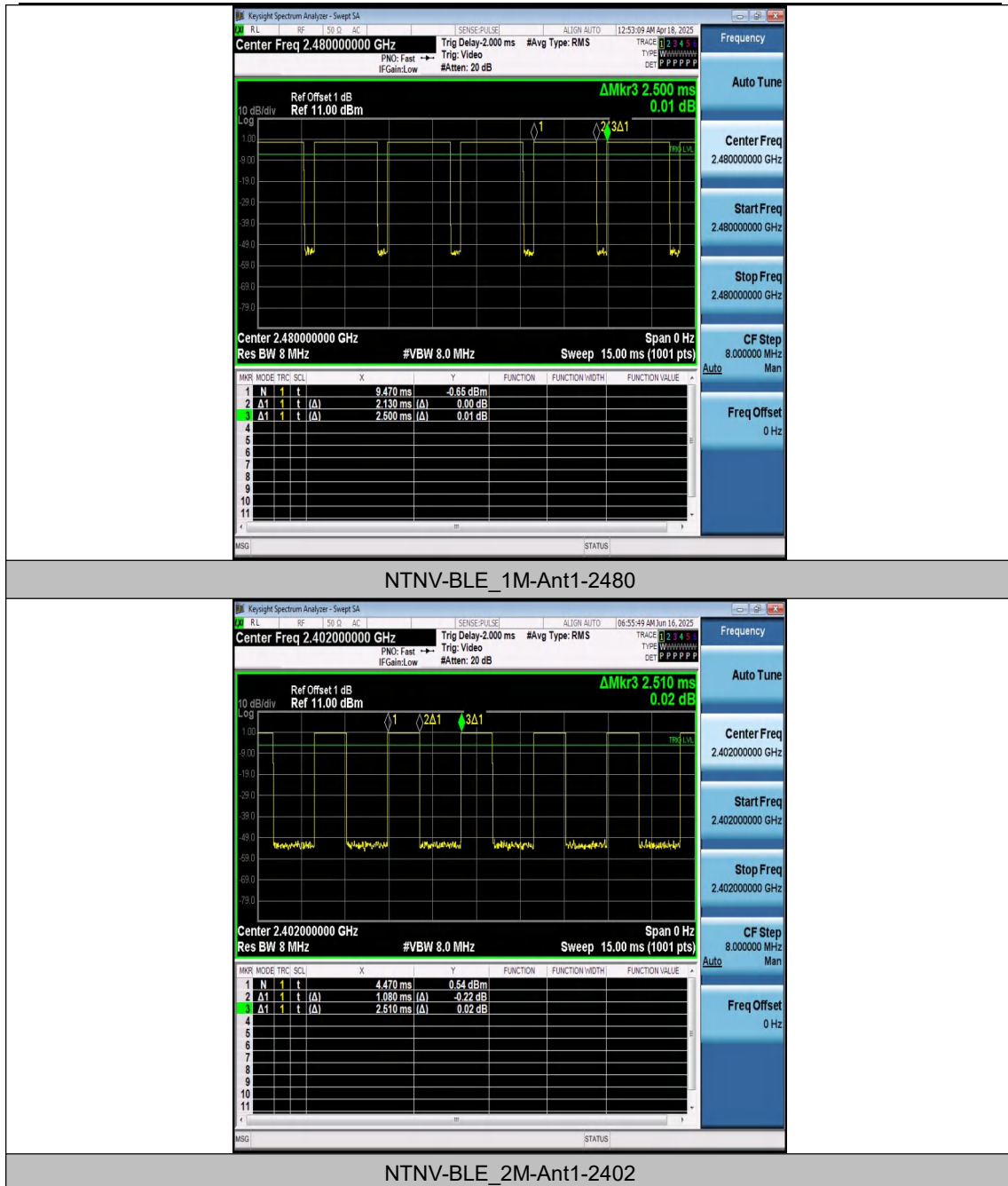
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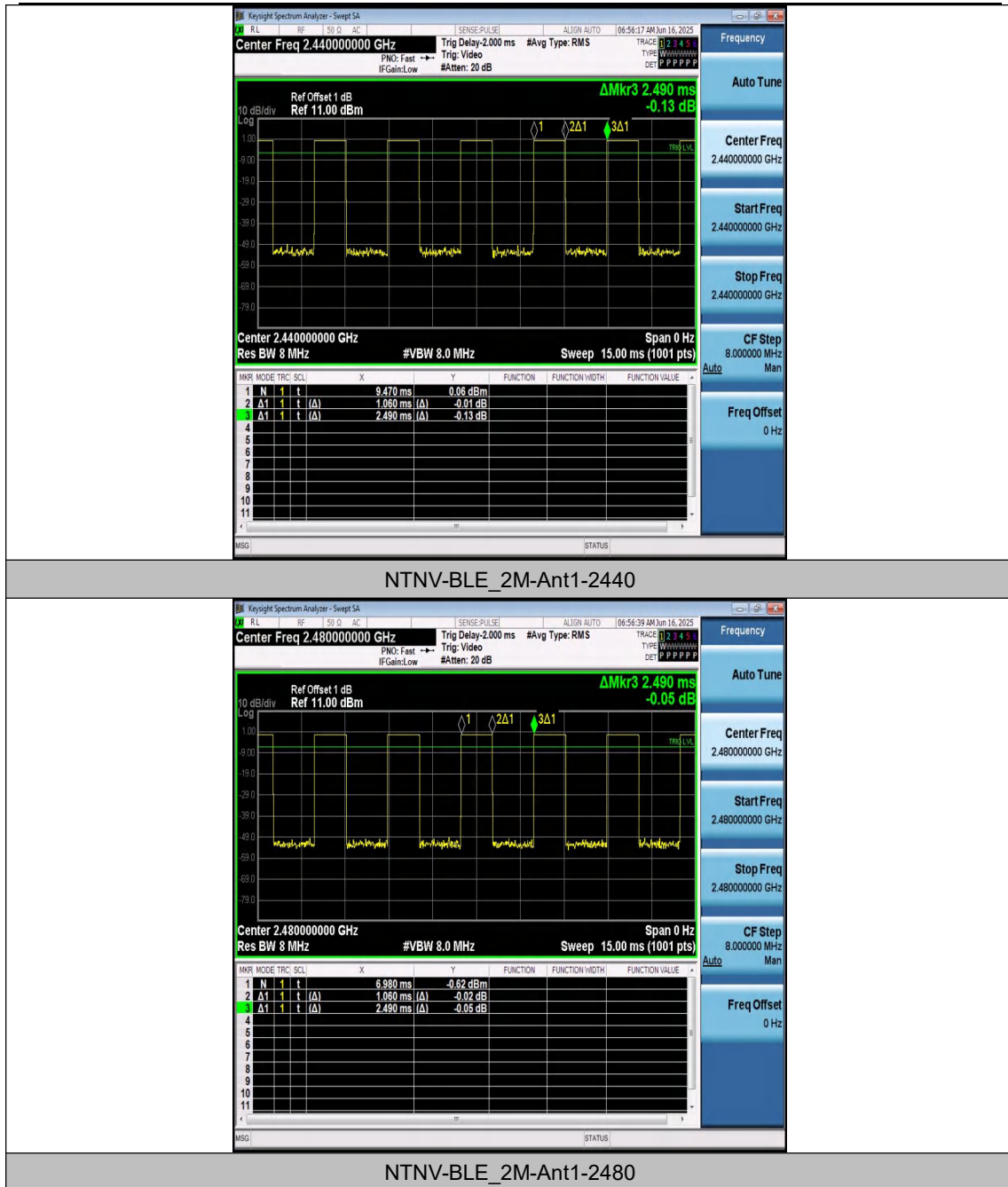


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Test Graphs







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