**Figure 1: Seed1.**

A RESULTS ON EGWO

The aggregated experiment results on EGWO across all the benchmark functions. Each with one seed. The six figures show results from different dimensions: 2D, 3D, 5D, 10D, 20D, and 40D.

B RESULTS ON DE

The aggregated experiment results on DE across all the benchmark functions. Each with one seed. The six figures show results from different dimensions: 2D, 3D, 5D, 10D, 20D, and 40D.

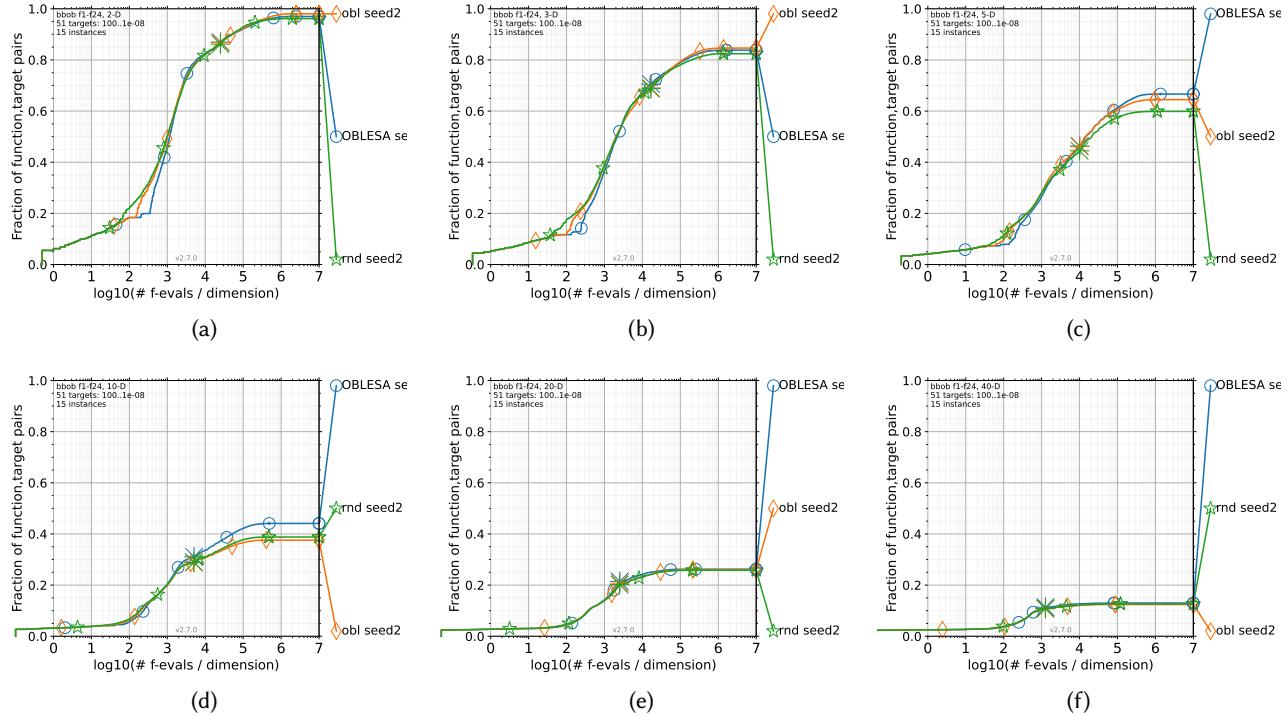


Figure 2: Seed 2.

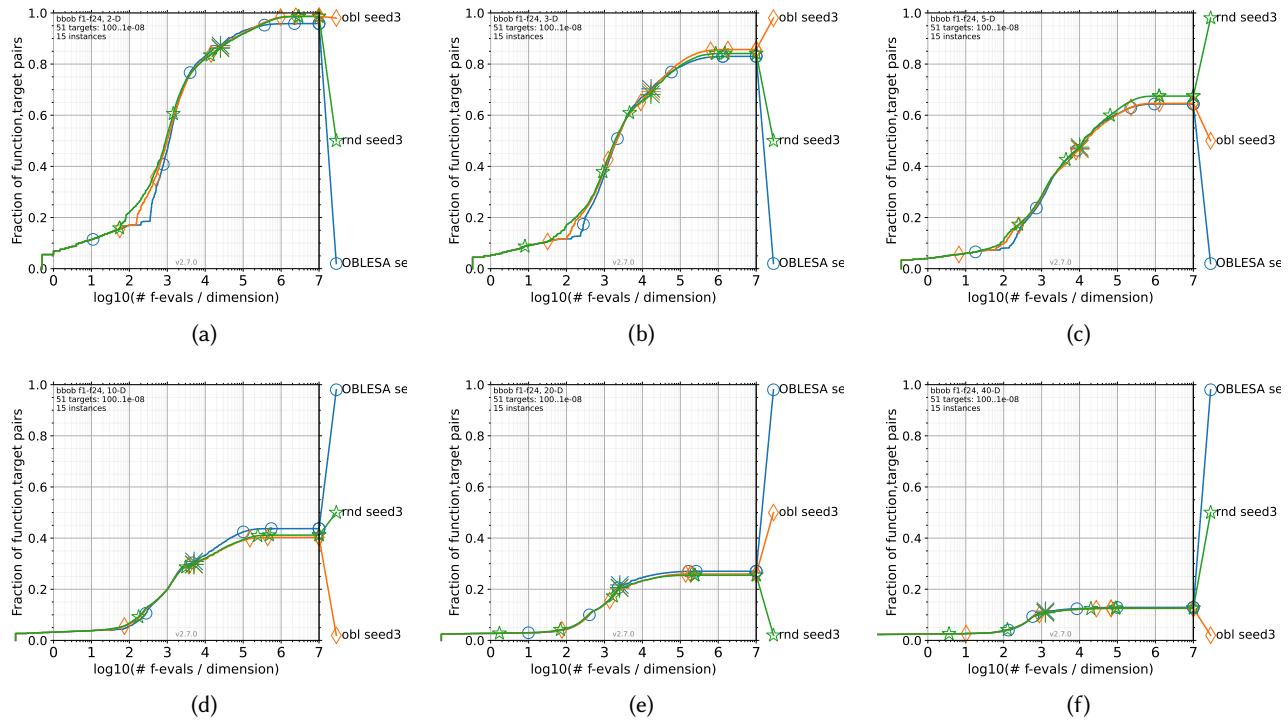


Figure 3: Seed 3.

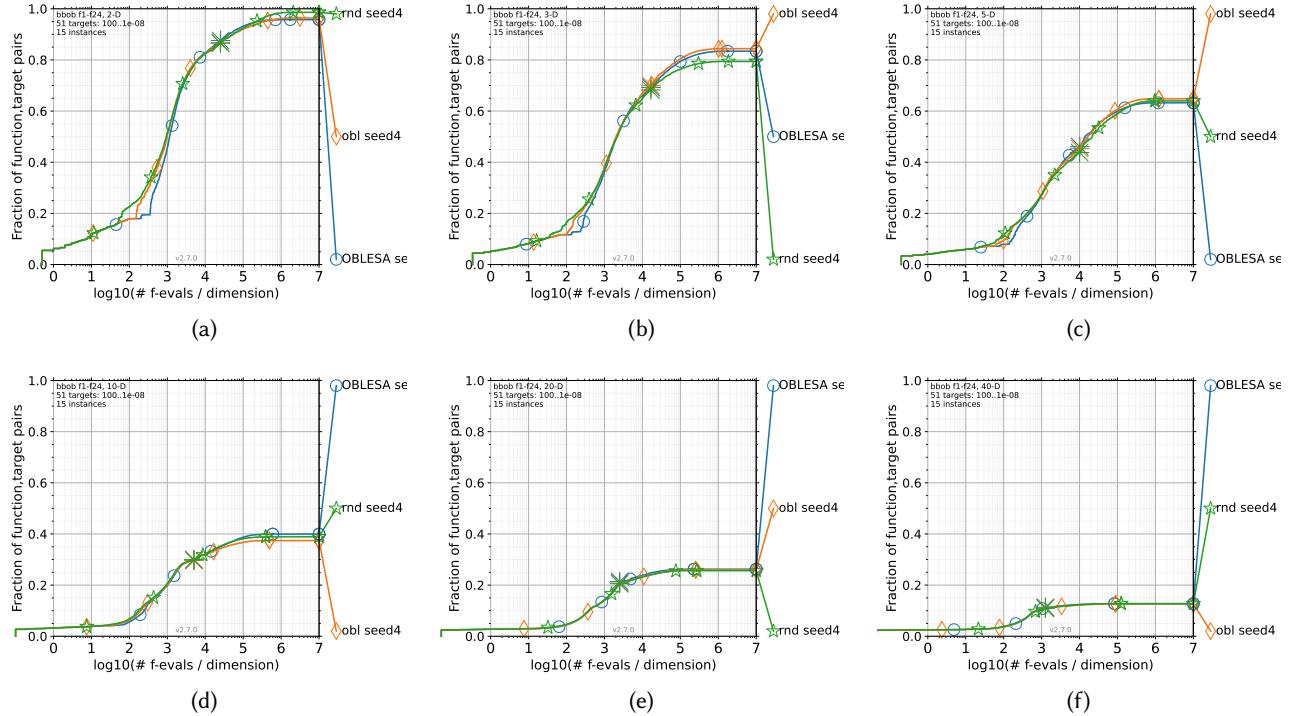


Figure 4: Seed 4.

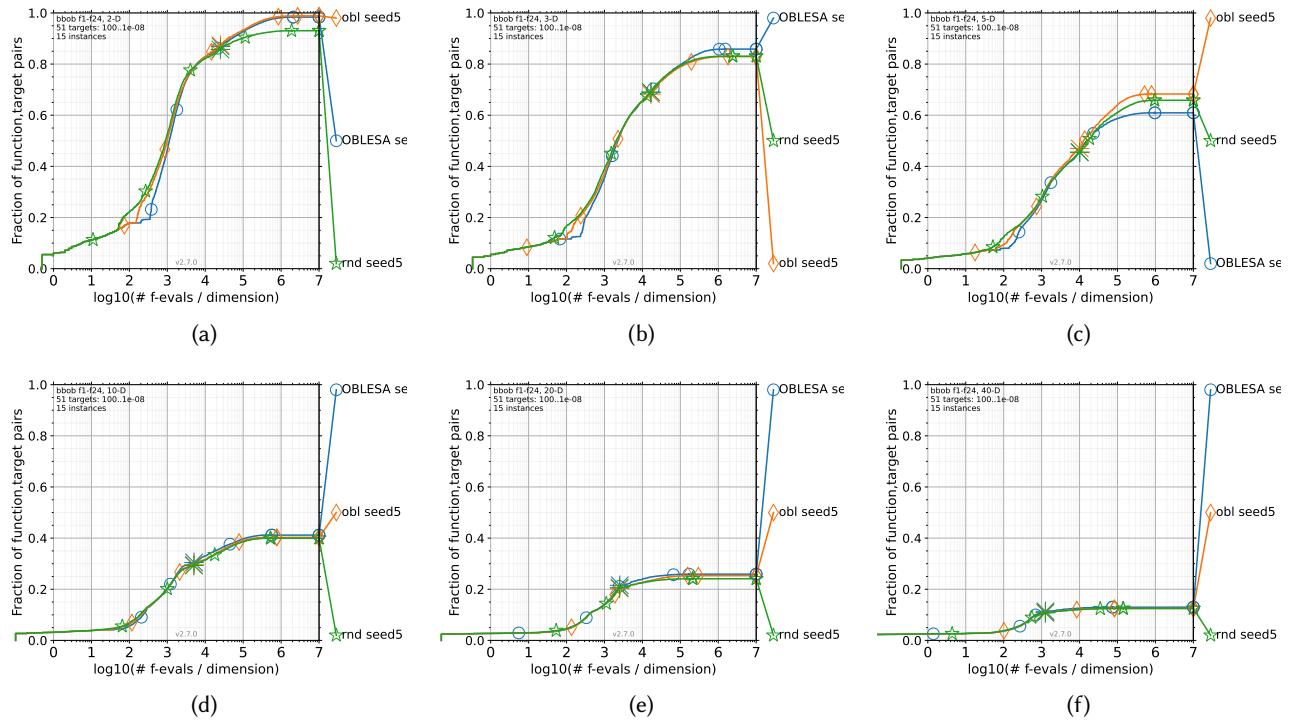


Figure 5: Seed 5.

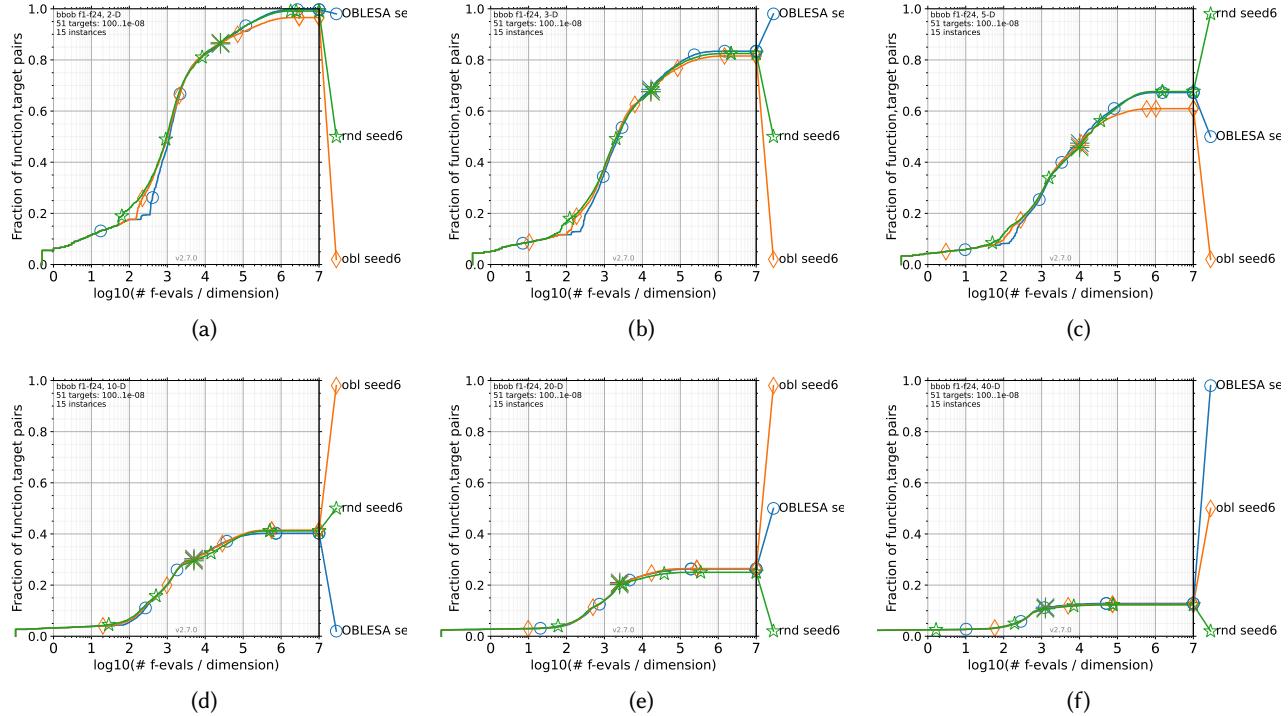


Figure 6: Seed 6.

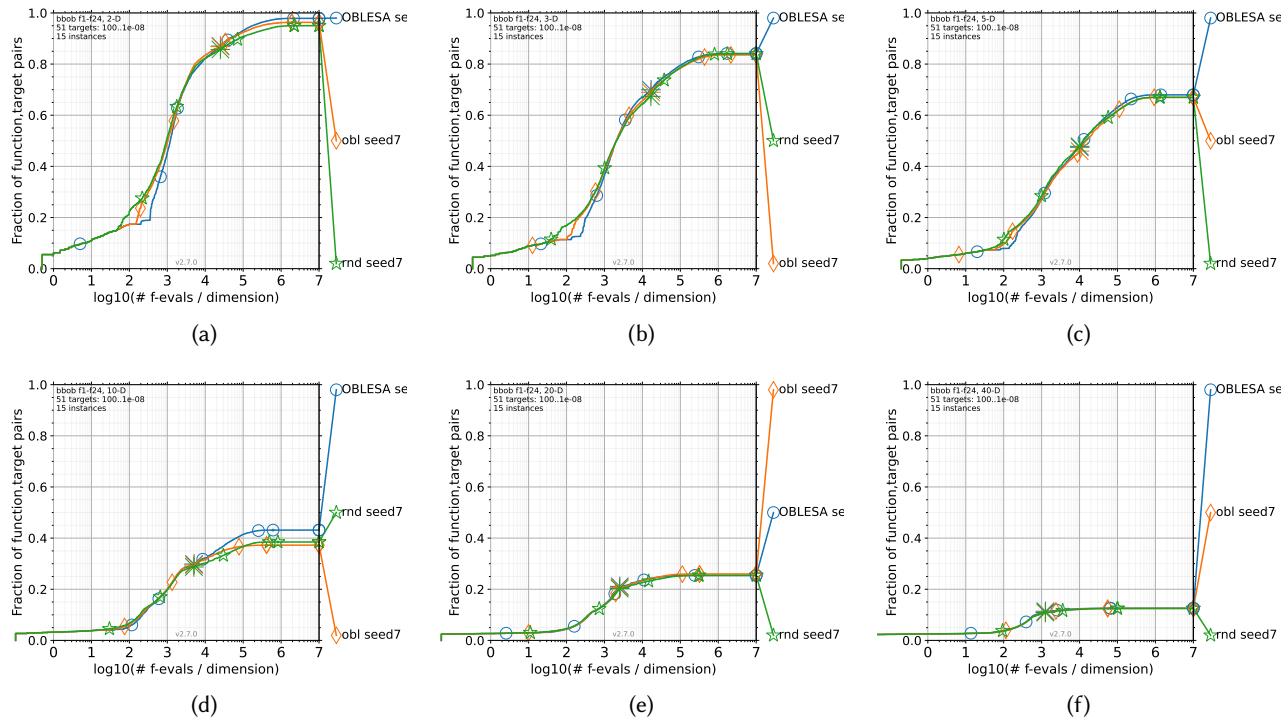


Figure 7: Seed 7.

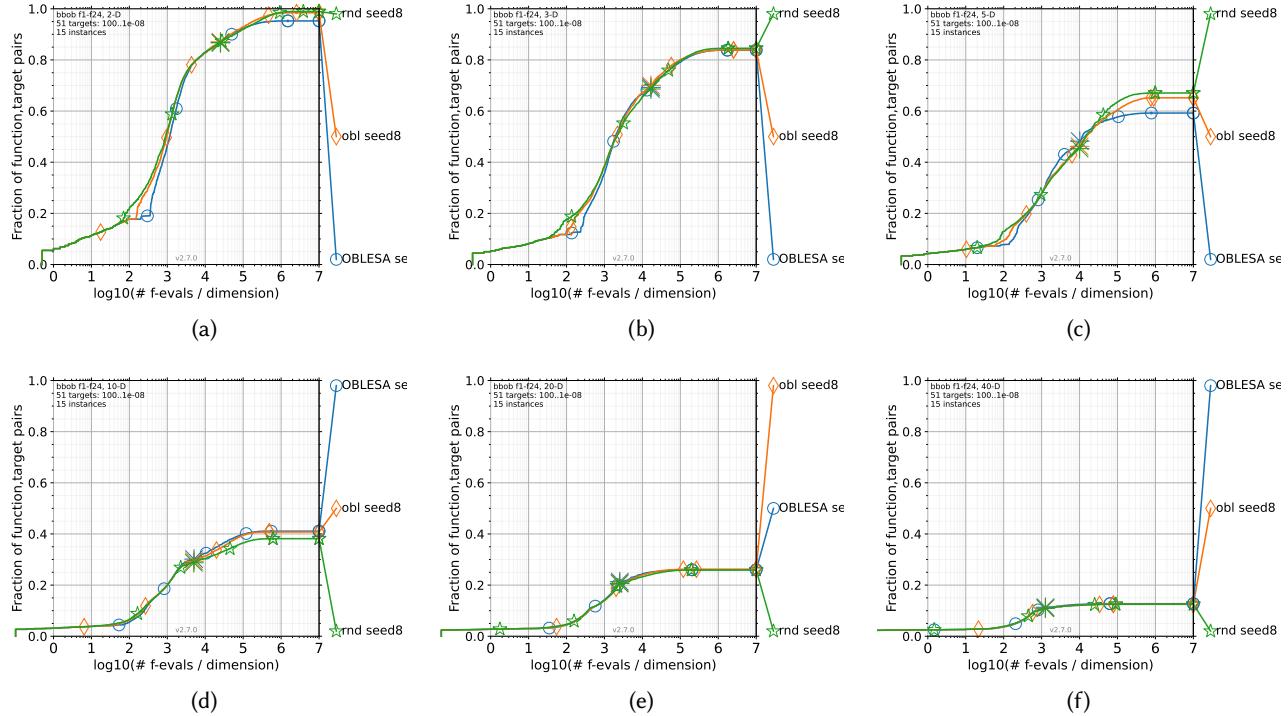


Figure 8: Seed 8.

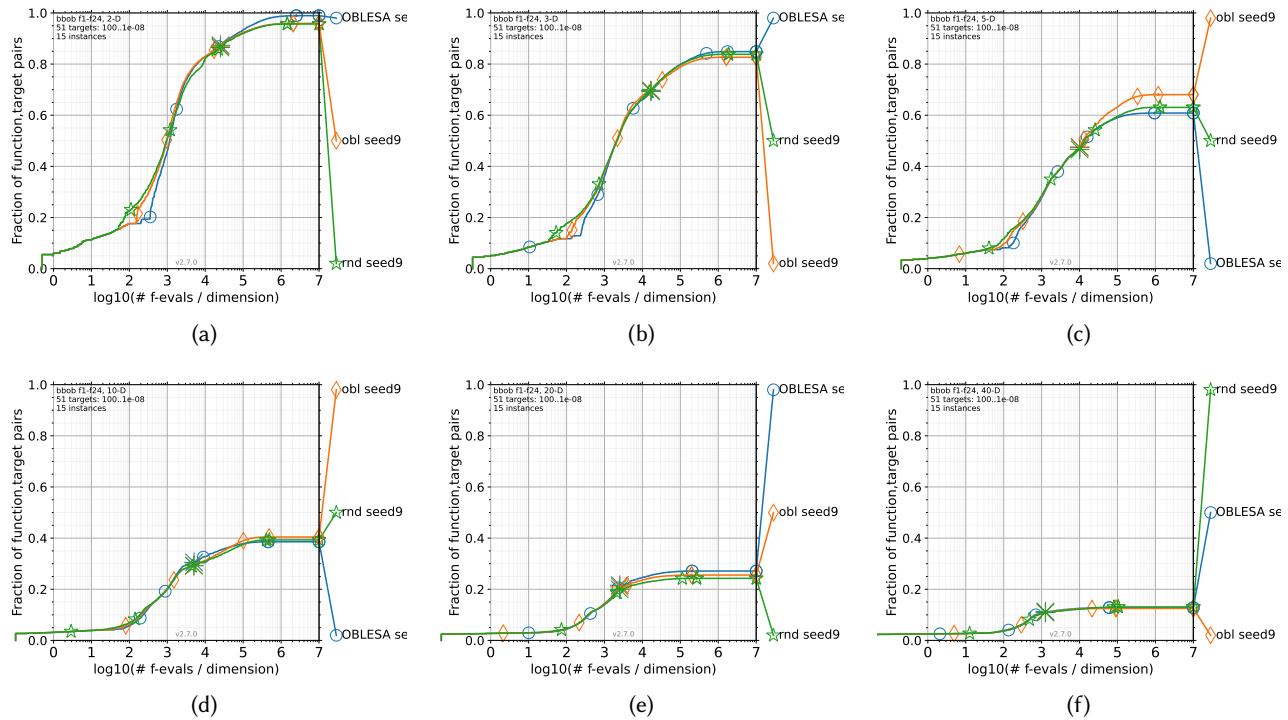


Figure 9: Seed 9.

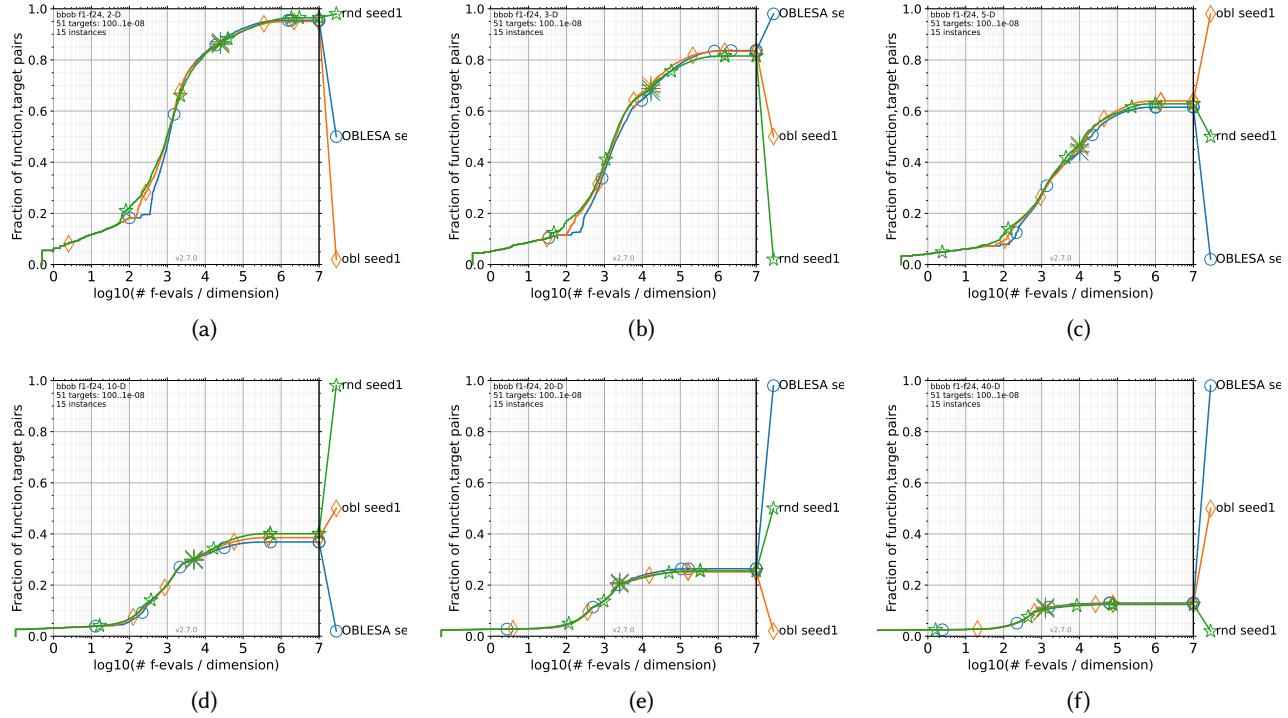
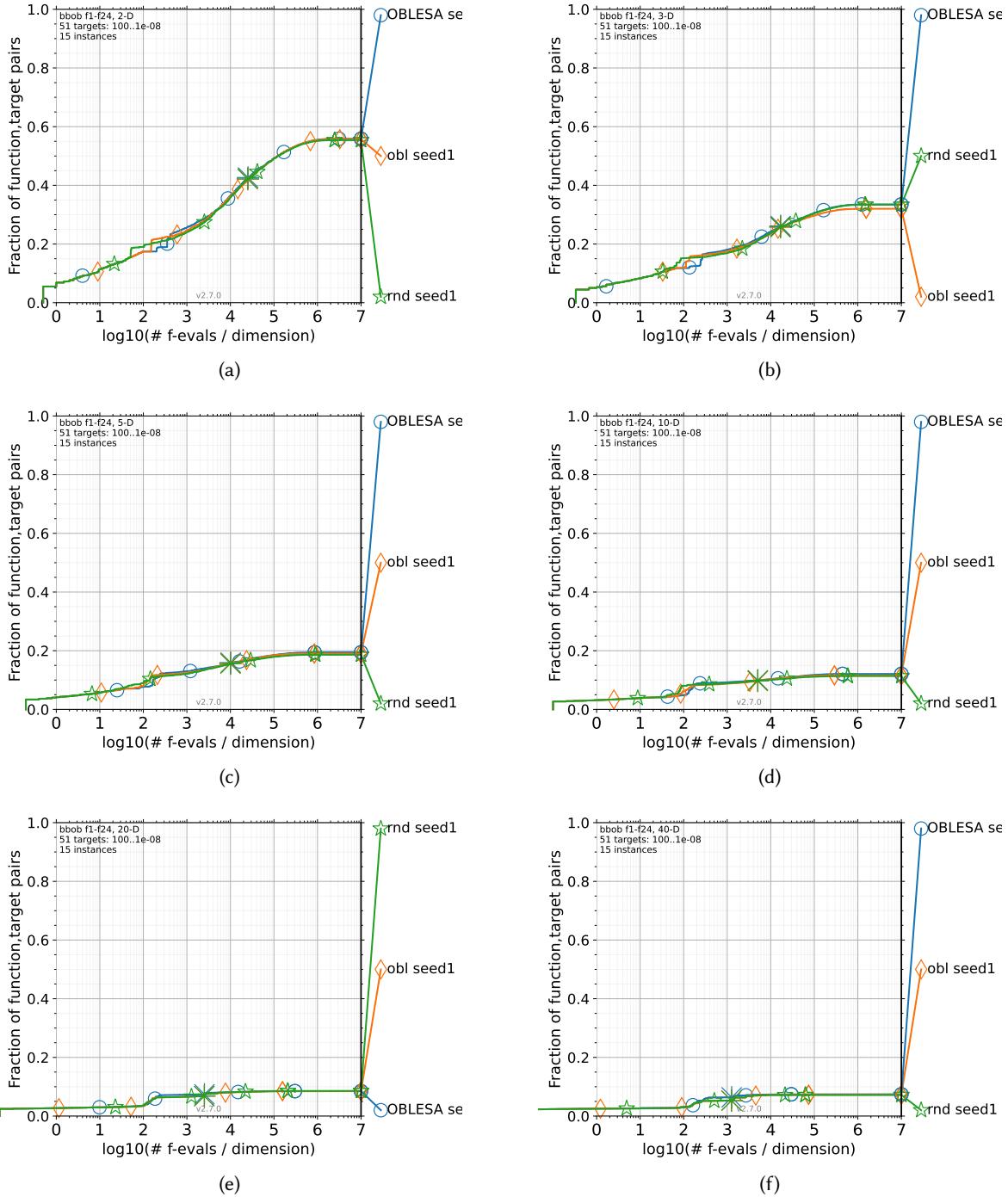


Figure 10: Seed 10.

**Figure 11: Seed1.**

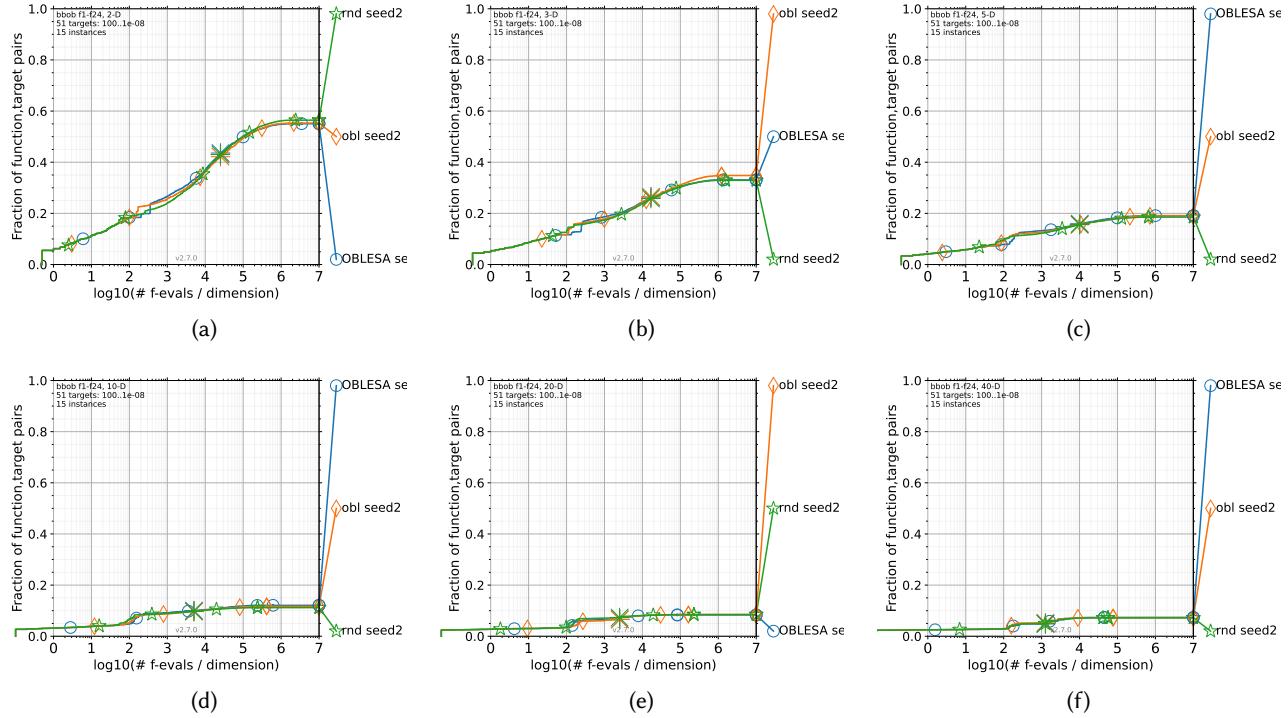


Figure 12: Seed 2.

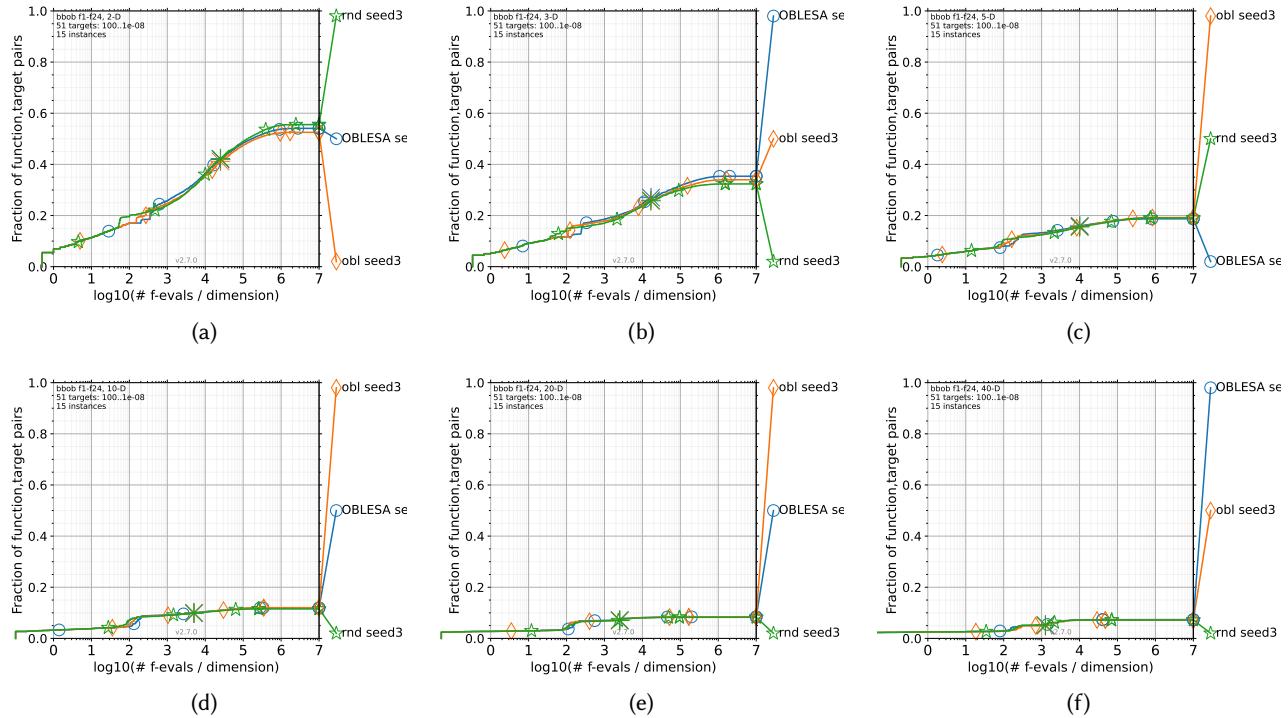


Figure 13: Seed 3.

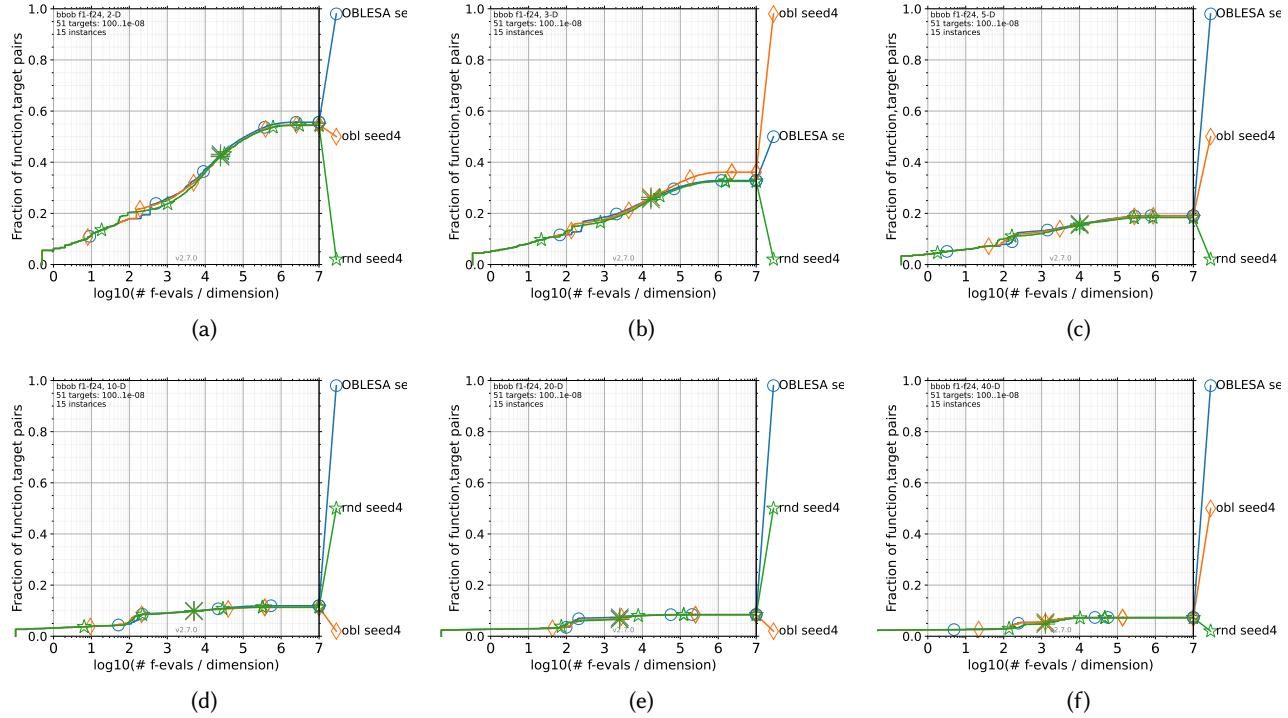


Figure 14: Seed 4.

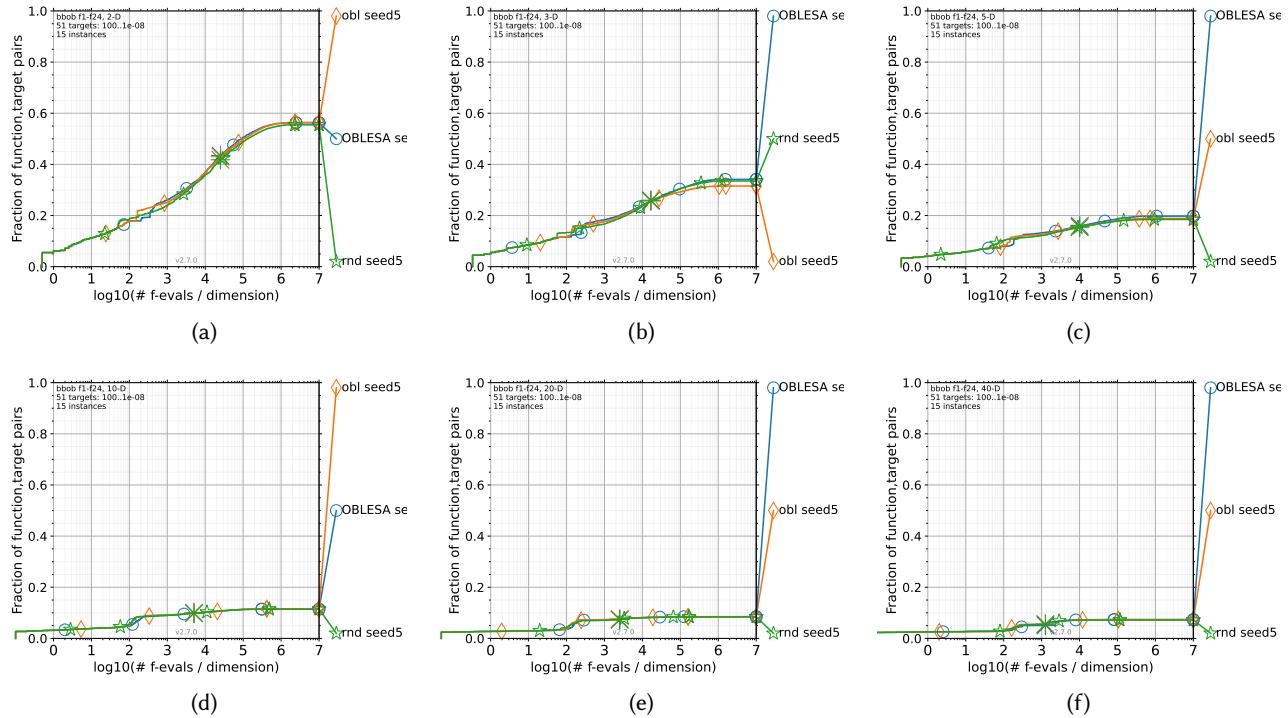


Figure 15: Seed 5.

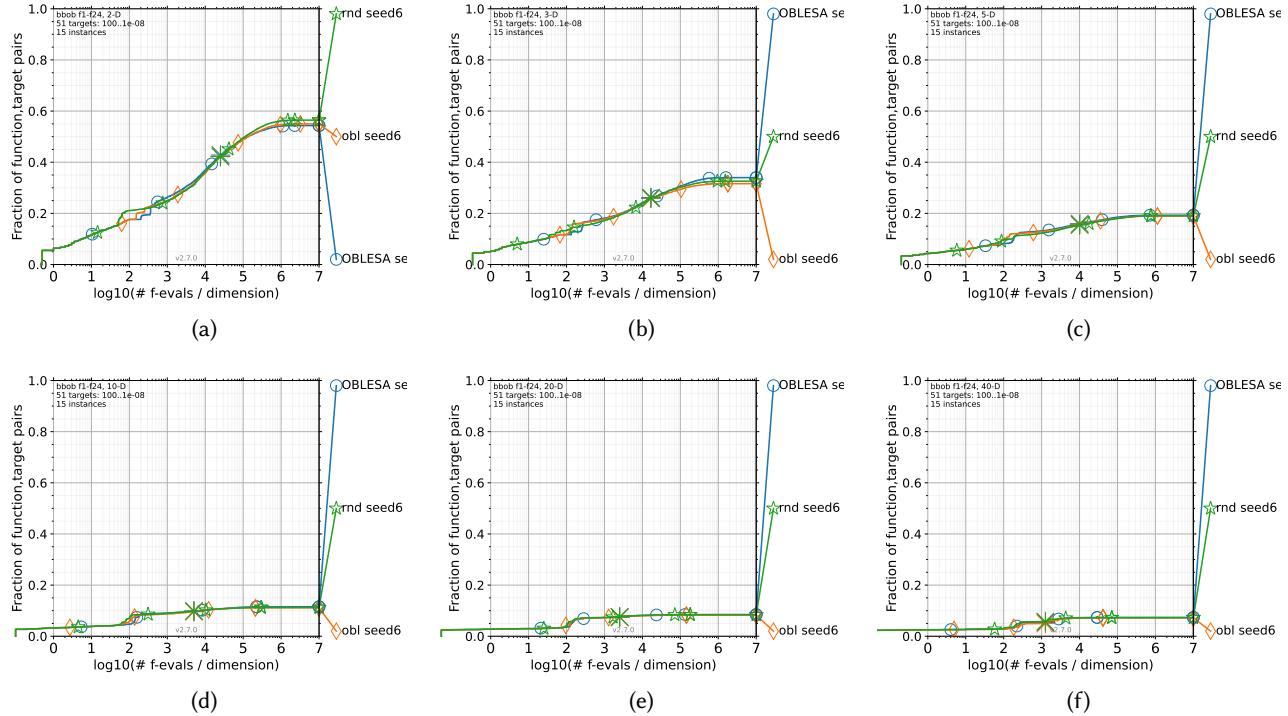


Figure 16: Seed 10.

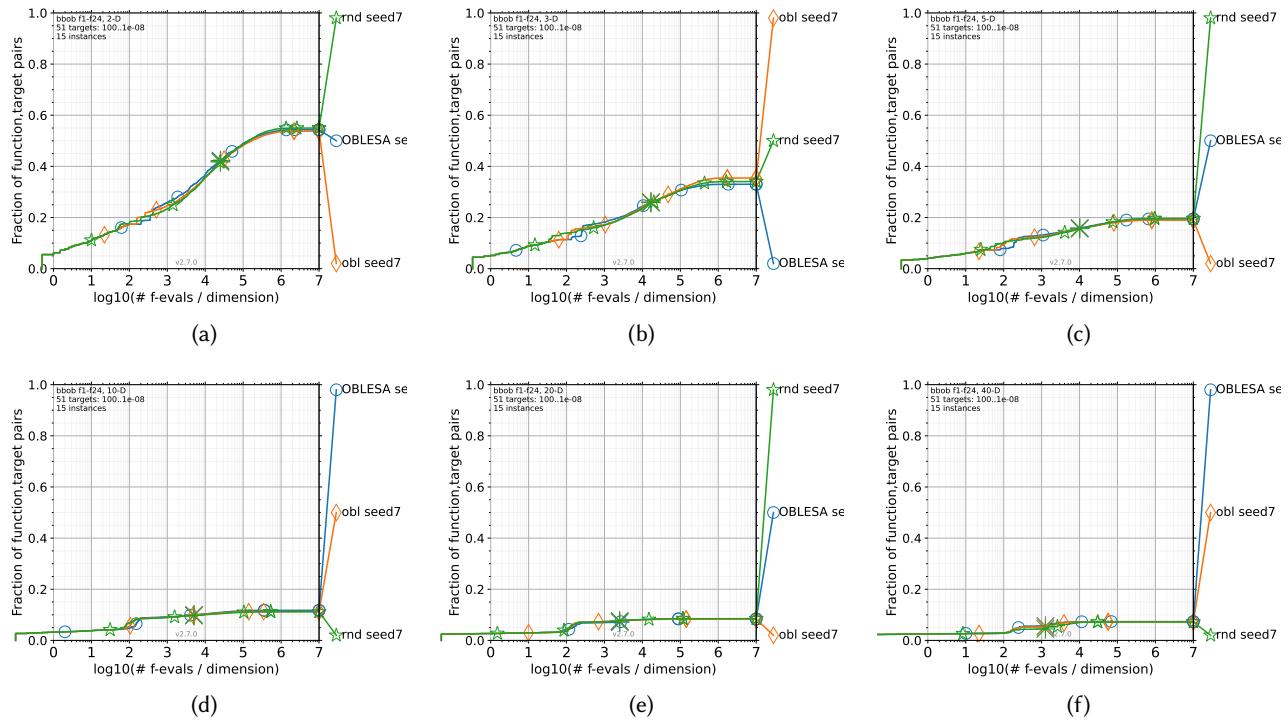


Figure 17: Seed 7.

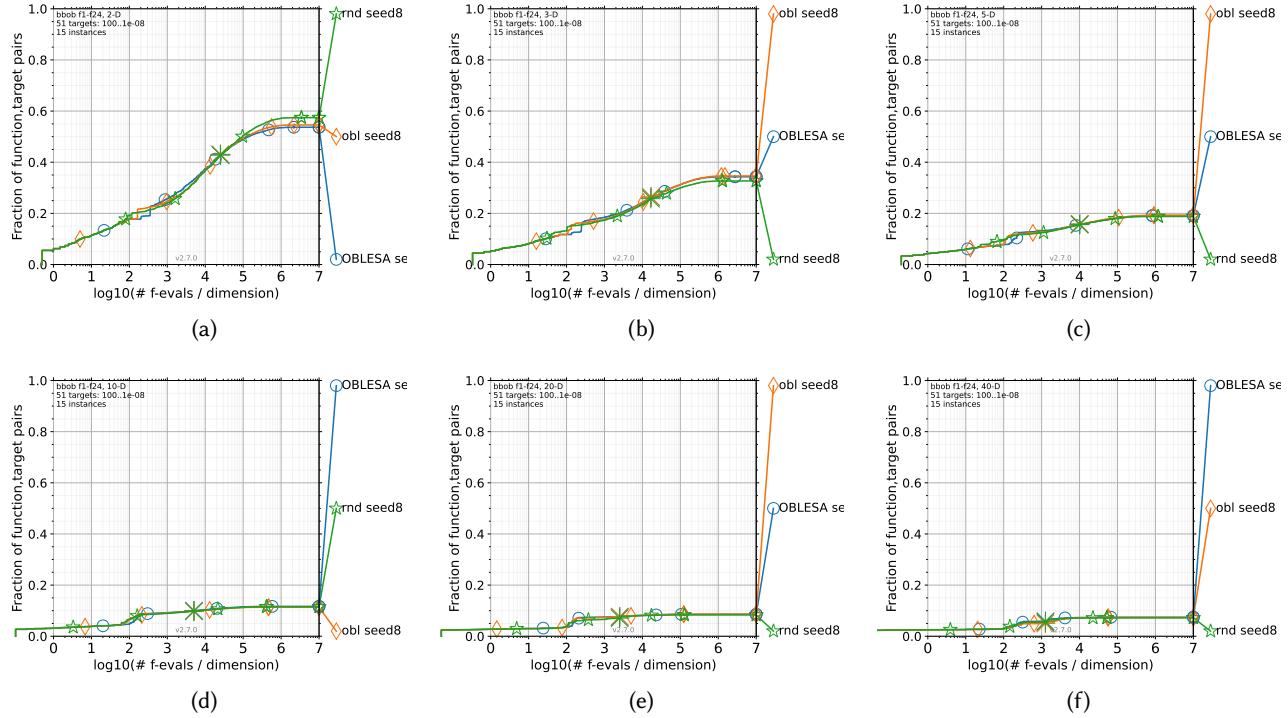


Figure 18: Seed 10.

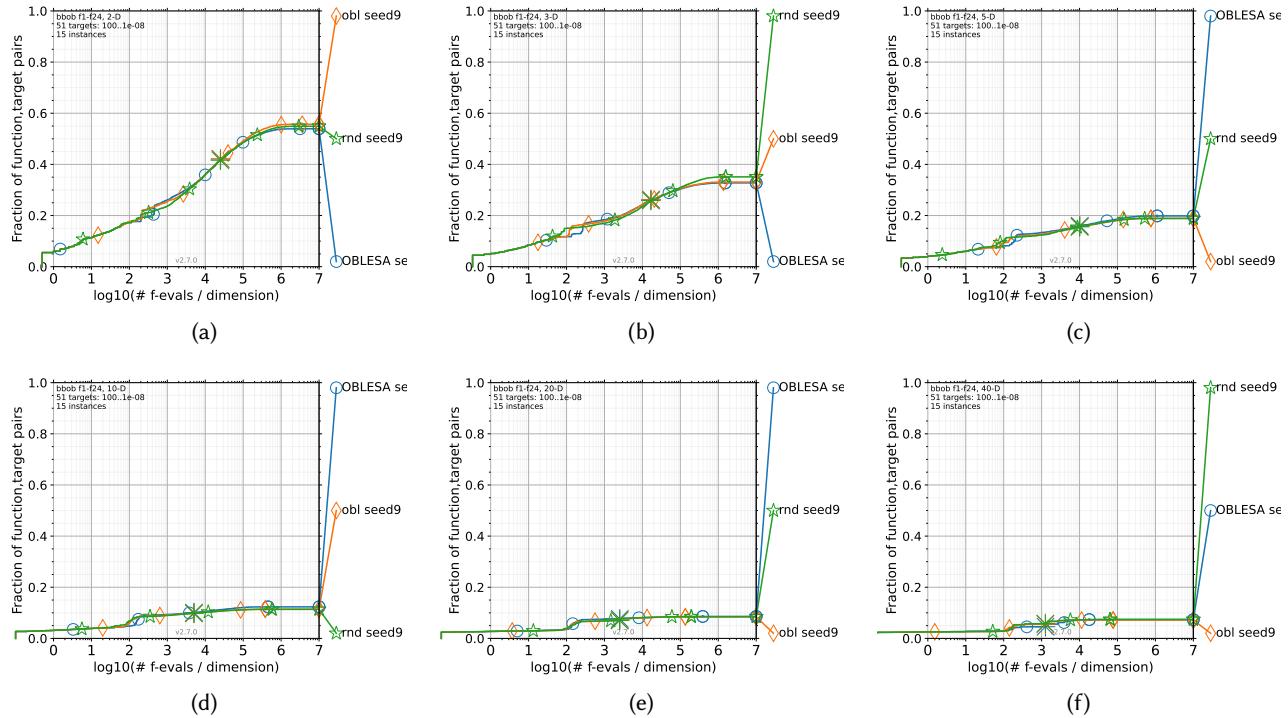


Figure 19: Seed 10.

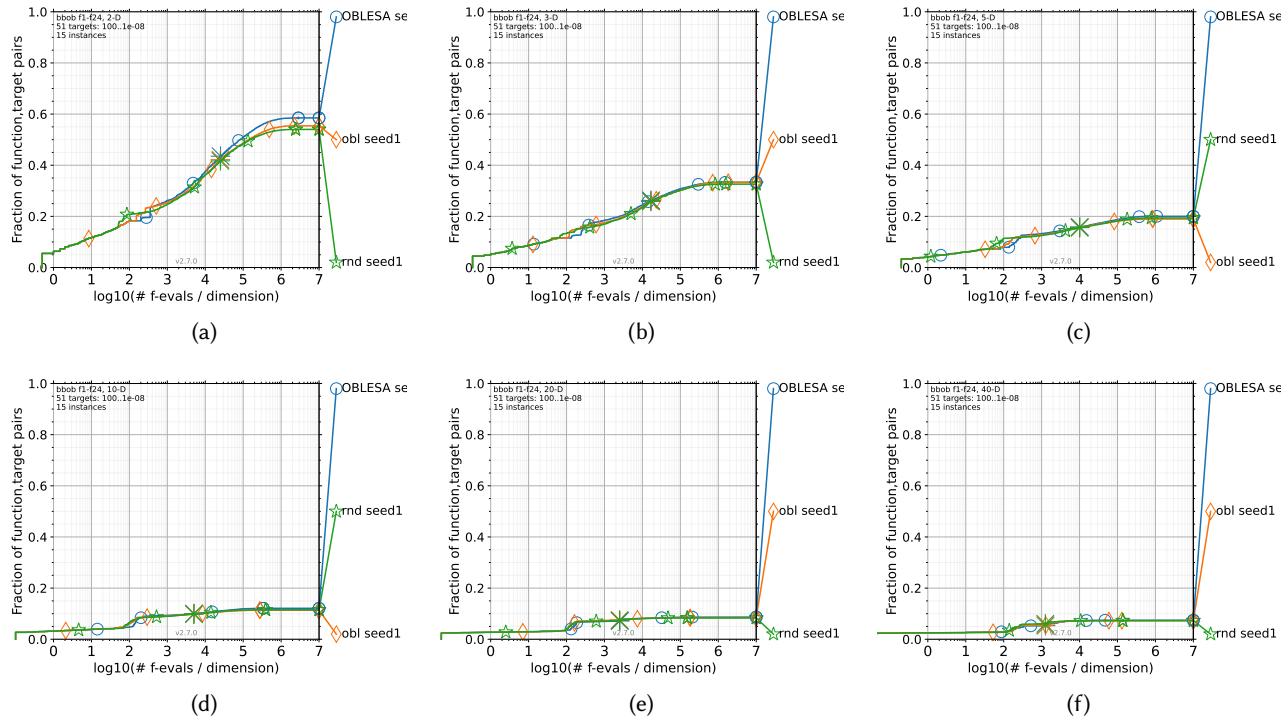


Figure 20: Seed 10.