MolProbity Ramachandran analysis

1air_.B99990006.pdb, model 1

General case
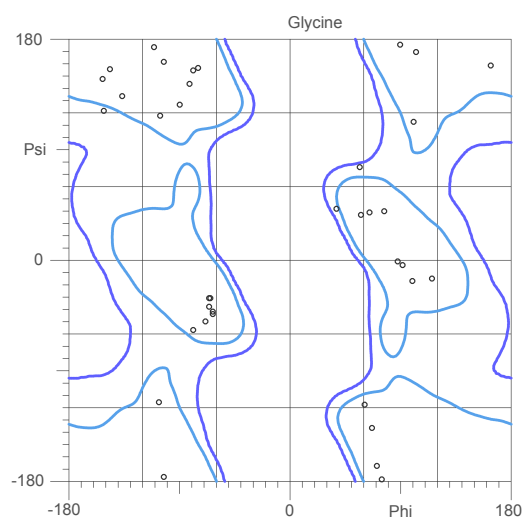
Isoleucine and valine

Pre-proline

Glycine

Trans proline

Cis proline
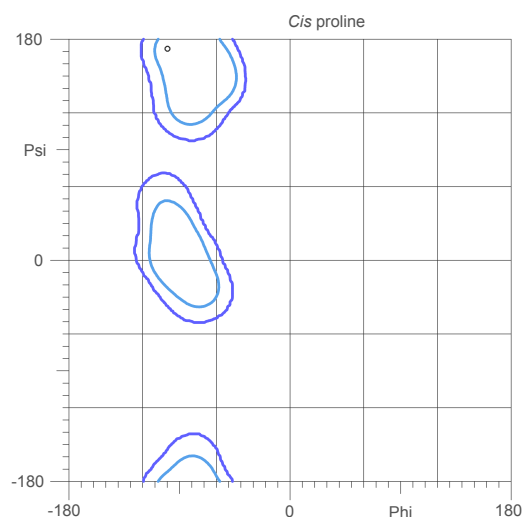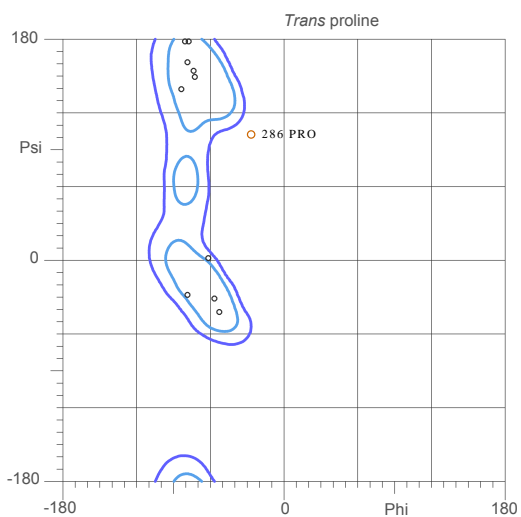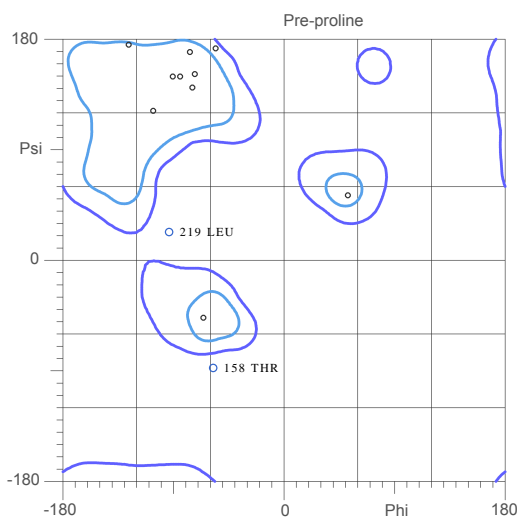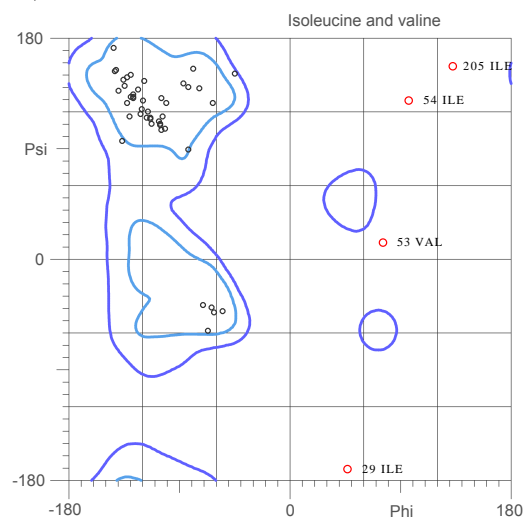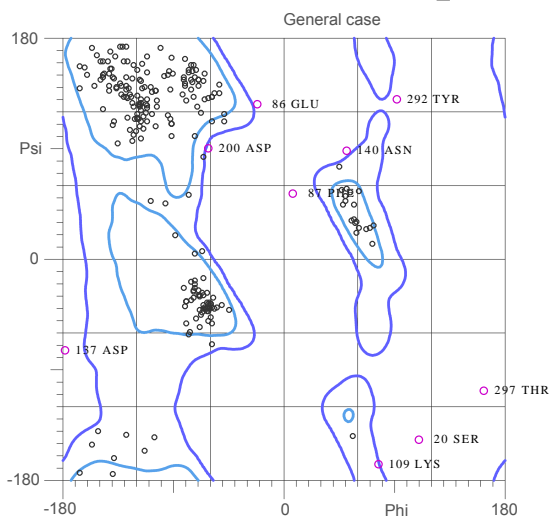
88.6% (310/350) of all residues were in favored (98%) regions.
95.4% (334/350) of all residues were in allowed (>99.8%) regions.

There were 16 outliers (phi, psi):
20 SER (110.1, -147.7)
29 ILE (47.2, -171.2)
53 VAL (76.2, 14.9)
54 ILE (97.7, 130.1)
86 GLU (-22.6, 127.8)
87 PHE (7.3, 54.9)
109 LYS (77.8, -167.2)
137 ASP (-179.4, -74.6)
140 ASN (51.1, 89.3)
158 THR (-58.8, -88.5)
200 ASP (-62.7, 91.1)
205 ILE (133.1, 158.1)
219 LEU (-94.9, 23.3)
286 PRO (-27.3, 103.2)
292 TYR (92.2, 131.2)
297 THR (163.7, -107.5)

Lovell, Davis, et al. Proteins 50:437 (2003)