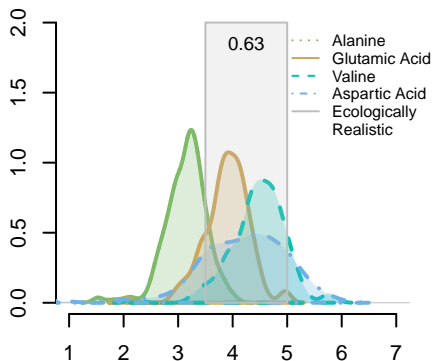
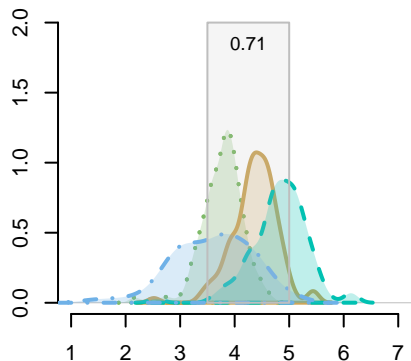


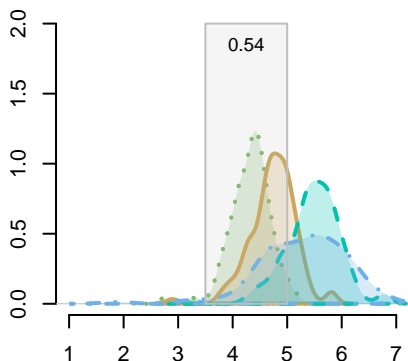
$$1. \frac{\delta^{15}\text{N}_{\text{Tr}} - \delta^{15}\text{N}_{\text{Phe}} - \beta_W}{\text{TDF}_{\text{Average}}} + 1$$



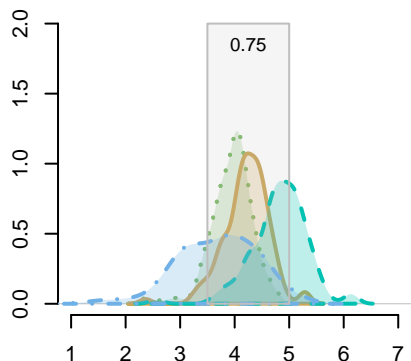
$$2. \frac{\delta^{15}\text{N}_{\text{Tr}} - \delta^{15}\text{N}_{\text{Phe}} - \text{TDF}_{\text{HS}} - \beta_W}{\text{TDF}_{\text{Average}}} + 2$$



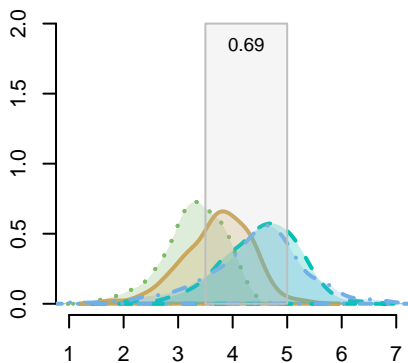
$$3. \frac{\delta^{15}\text{N}_{\text{Tr}} - \delta^{15}\text{N}_{\text{Phe}} - \text{TDF}_{\text{Phy}} - \beta_W}{\text{TDF}_{\text{Average}}} + 2$$



$$4. \frac{\delta^{15}\text{N}_{\text{Tr}} - \delta^{15}\text{N}_{\text{Phe}} - \text{TDF}_{\text{Phy}} - \text{TDF}_{\text{HS}} - \beta_W}{\text{TDF}_{\text{Average}}} + 3$$



$$5.2 \frac{\delta^{15}\text{N}_{\text{Tr}} - \delta^{15}\text{N}_{\text{Phe}} - \text{TDF}_{\text{HS}} - \beta_{\text{Ind}}}{\text{TDF}_{\text{Average}}} + 2$$



$$5.4 \frac{\delta^{15}\text{N}_{\text{Tr}} - \delta^{15}\text{N}_{\text{Phe}} - \text{TDF}_{\text{Phy}} - \text{TDF}_{\text{HS}} - \beta_{\text{Ind}}}{\text{TDF}_{\text{Average}}} + 3$$

