Supplement to Robustness of statistical methods when measure is affected by ceiling and/or floor effect

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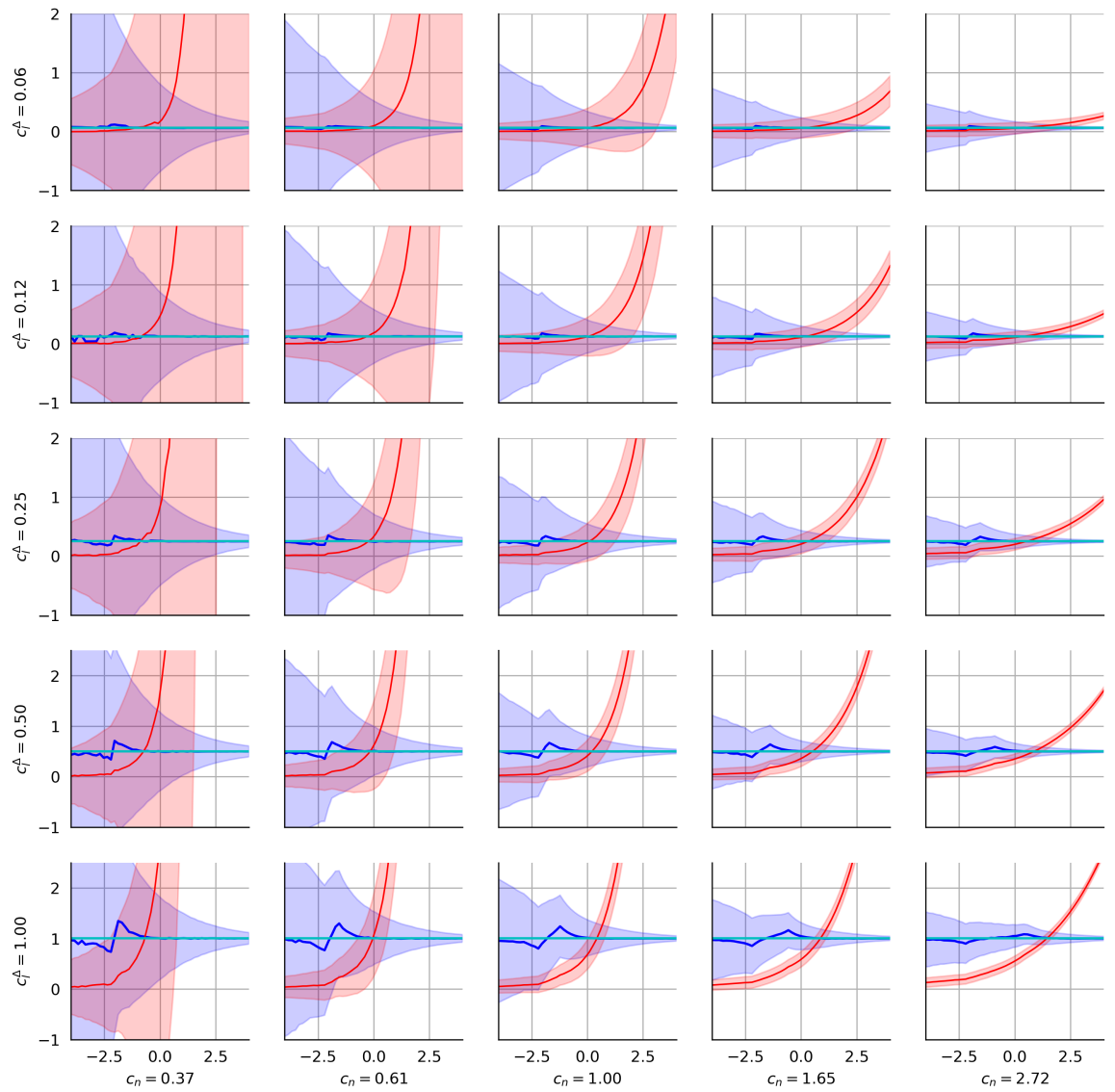
ABSTRACT

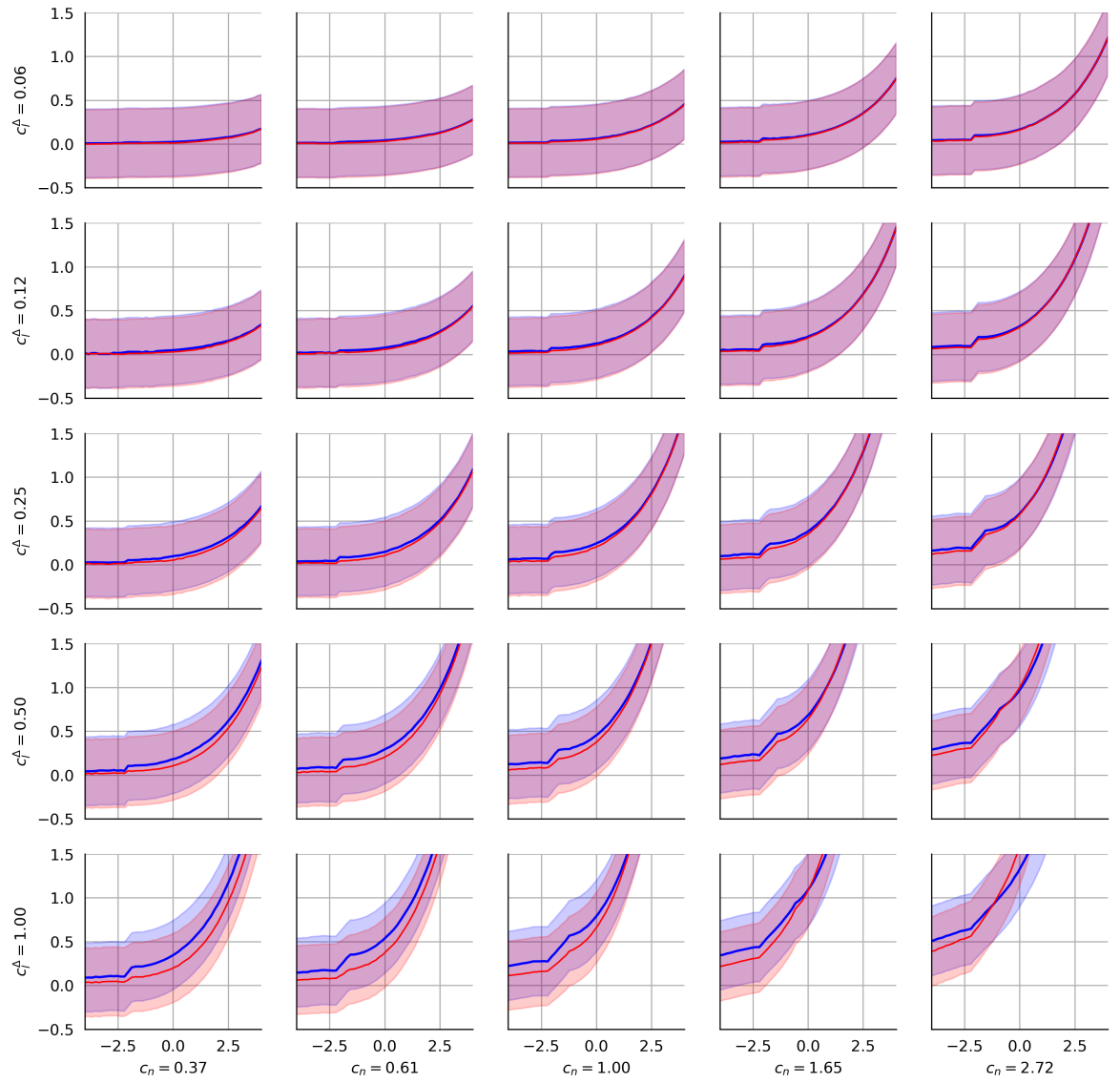**Figure 1.** Confidence intervals evaluated with Generalized gamma distribution

Figure 2. Cohen's *d* evaluated with Generalized gamma distribution
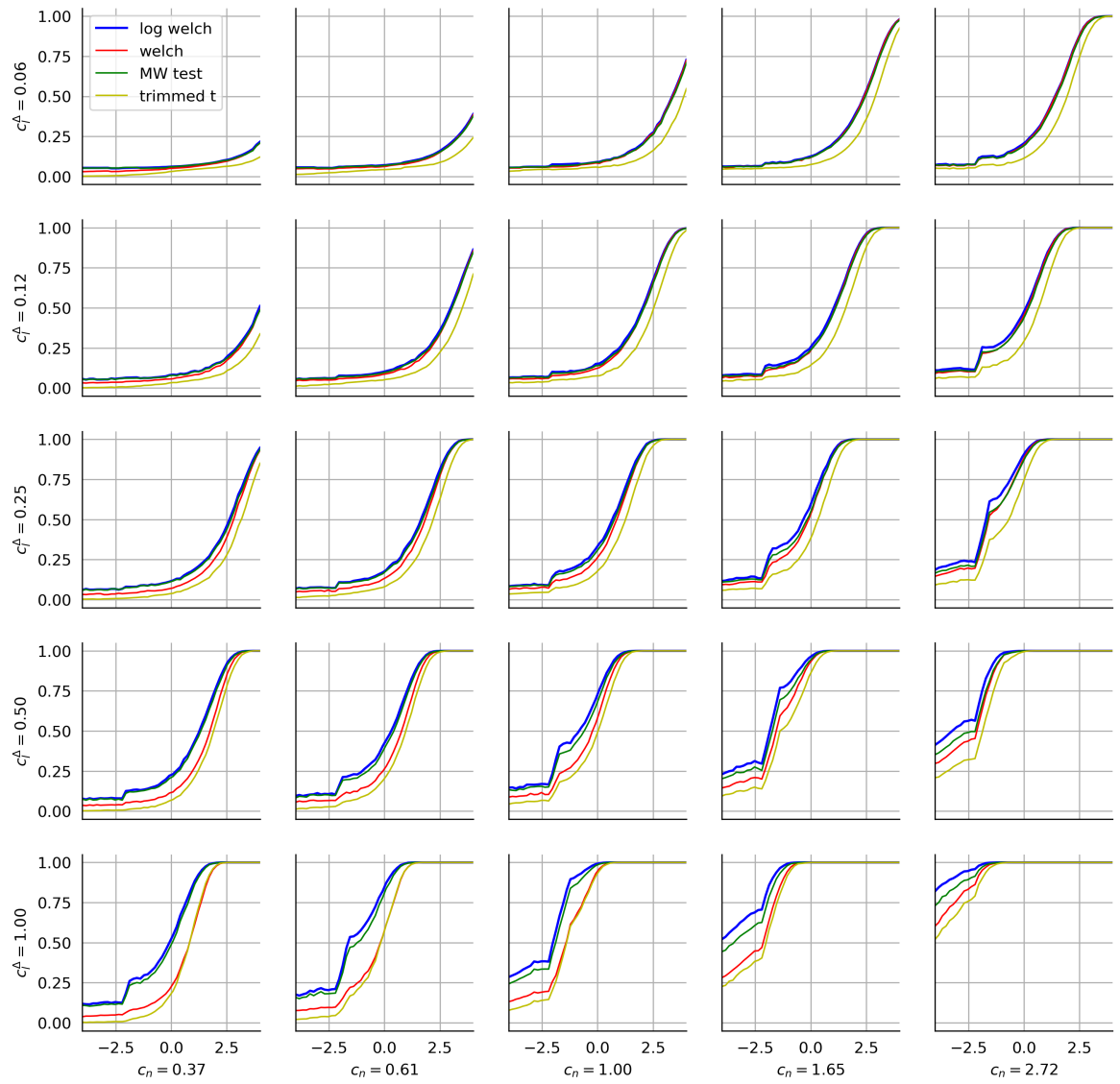
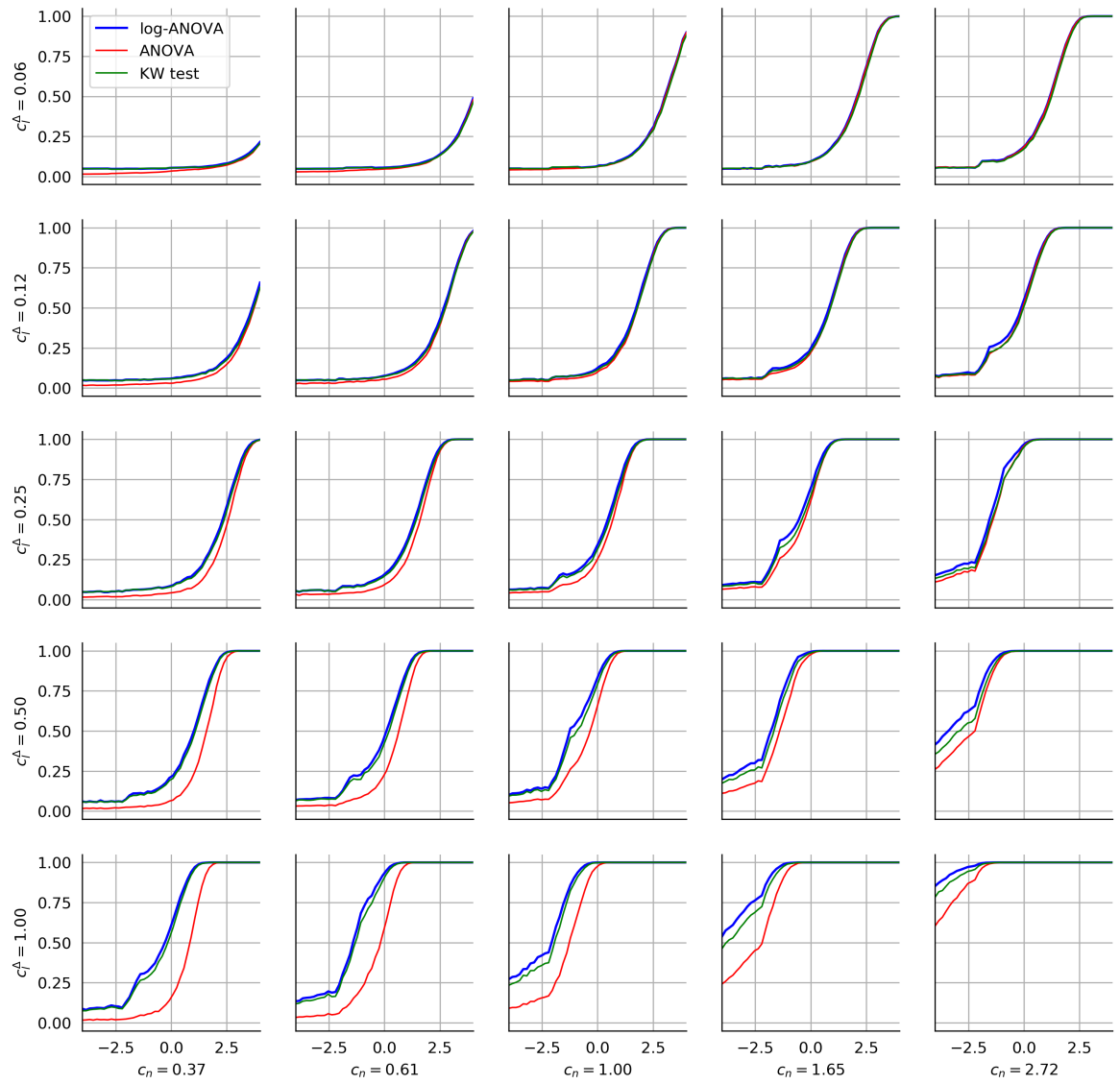**Figure 3.** Two-group tests evaluated with Generalized gamma distribution

Figure 4. Three-group tests evaluated with Generalized gamma distribution
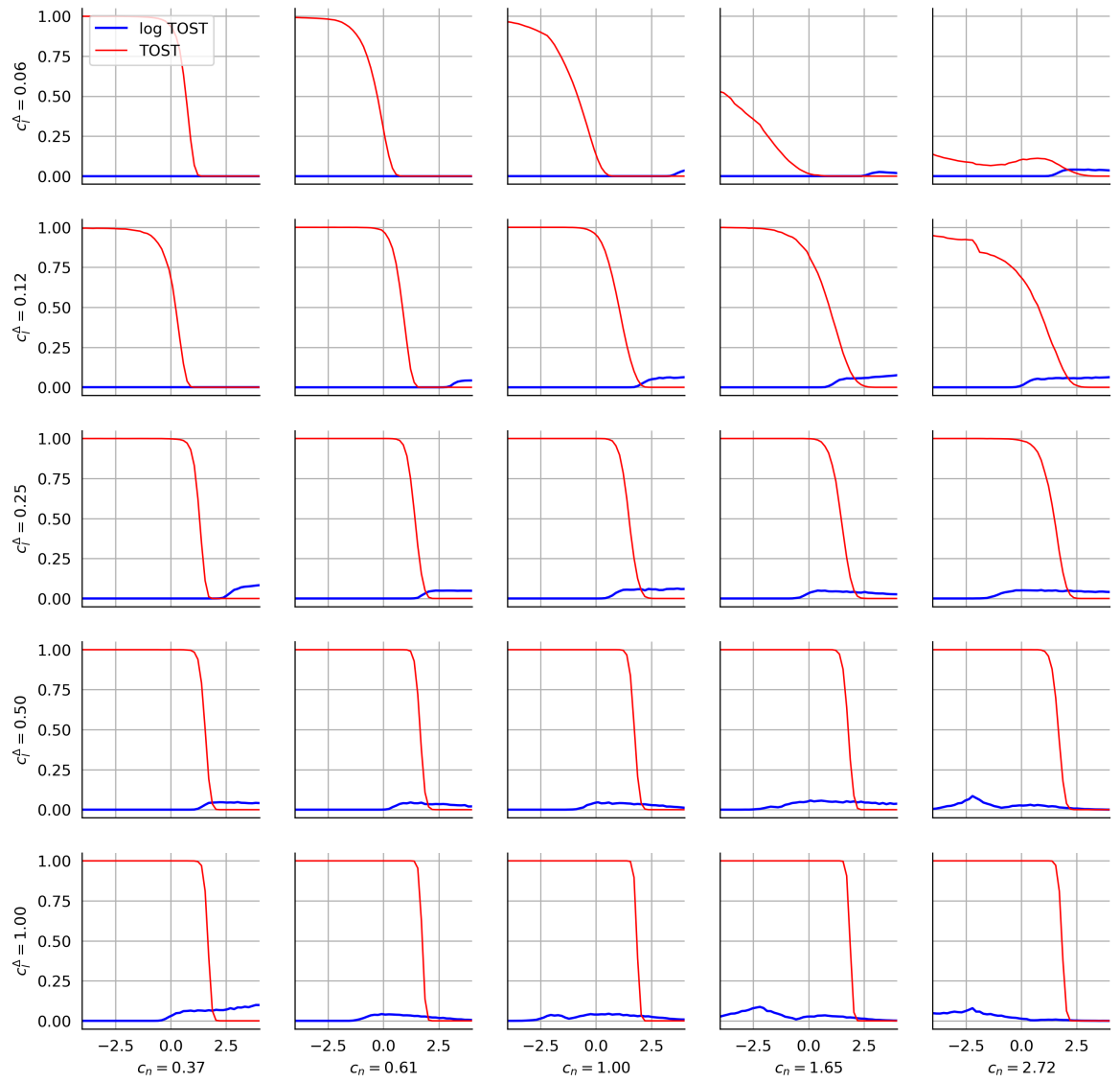
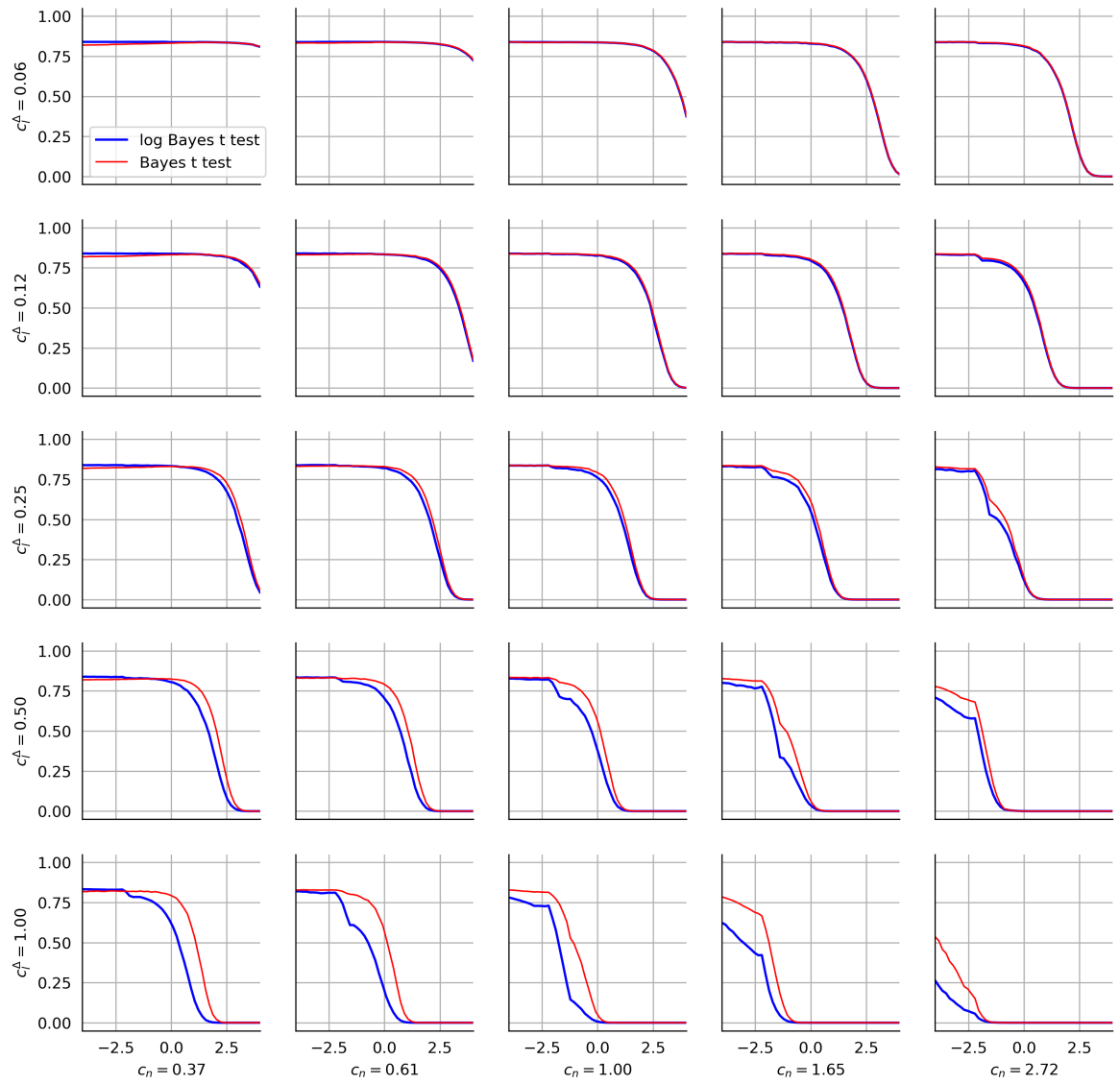**Figure 5.** TOST procedure evaluated with Generalized gamma distribution

Figure 6. Bayesian t test evaluated with Generalized gamma distribution
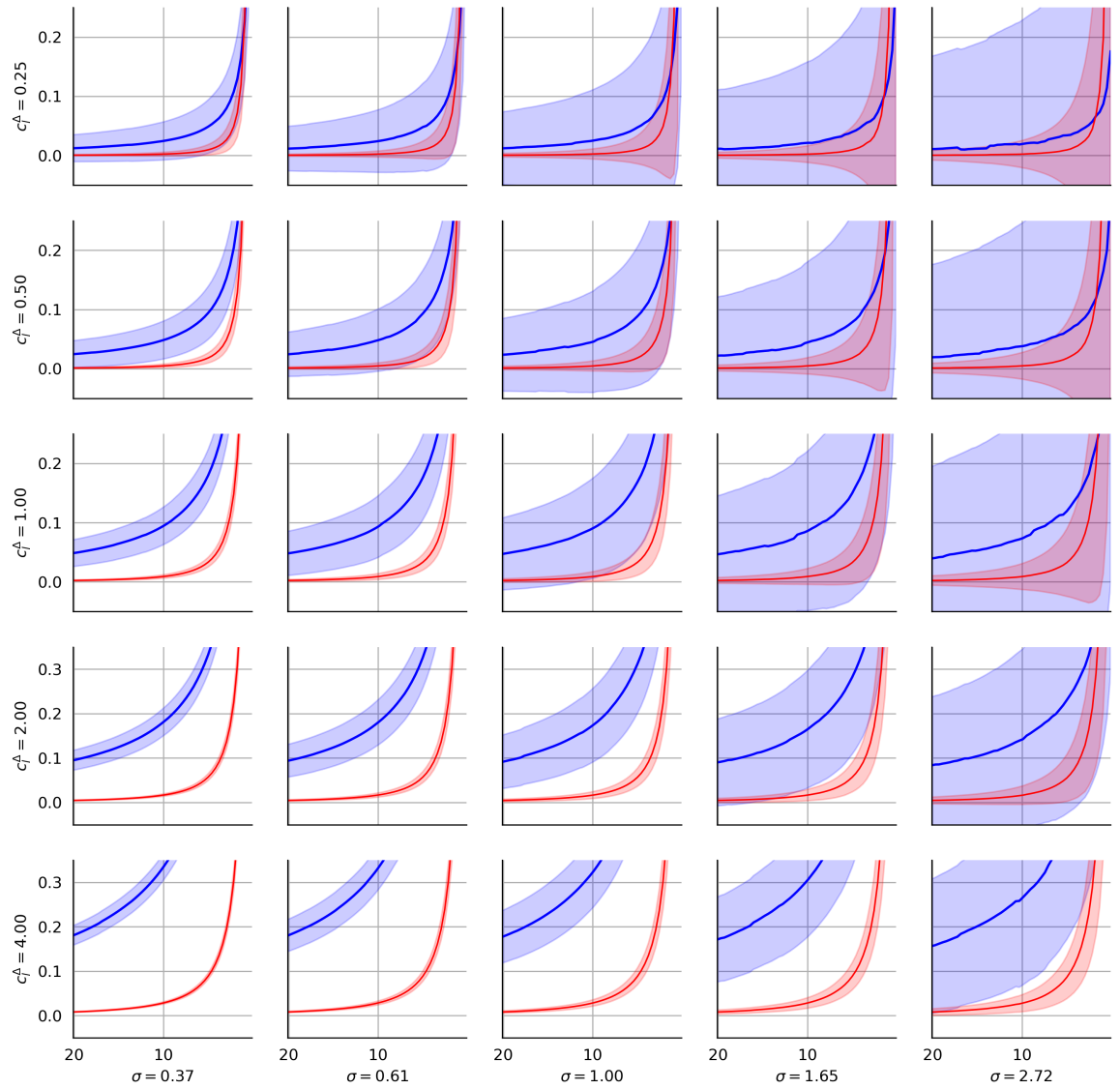
Figure 7. Confidence intervals evaluated with Wald distribution
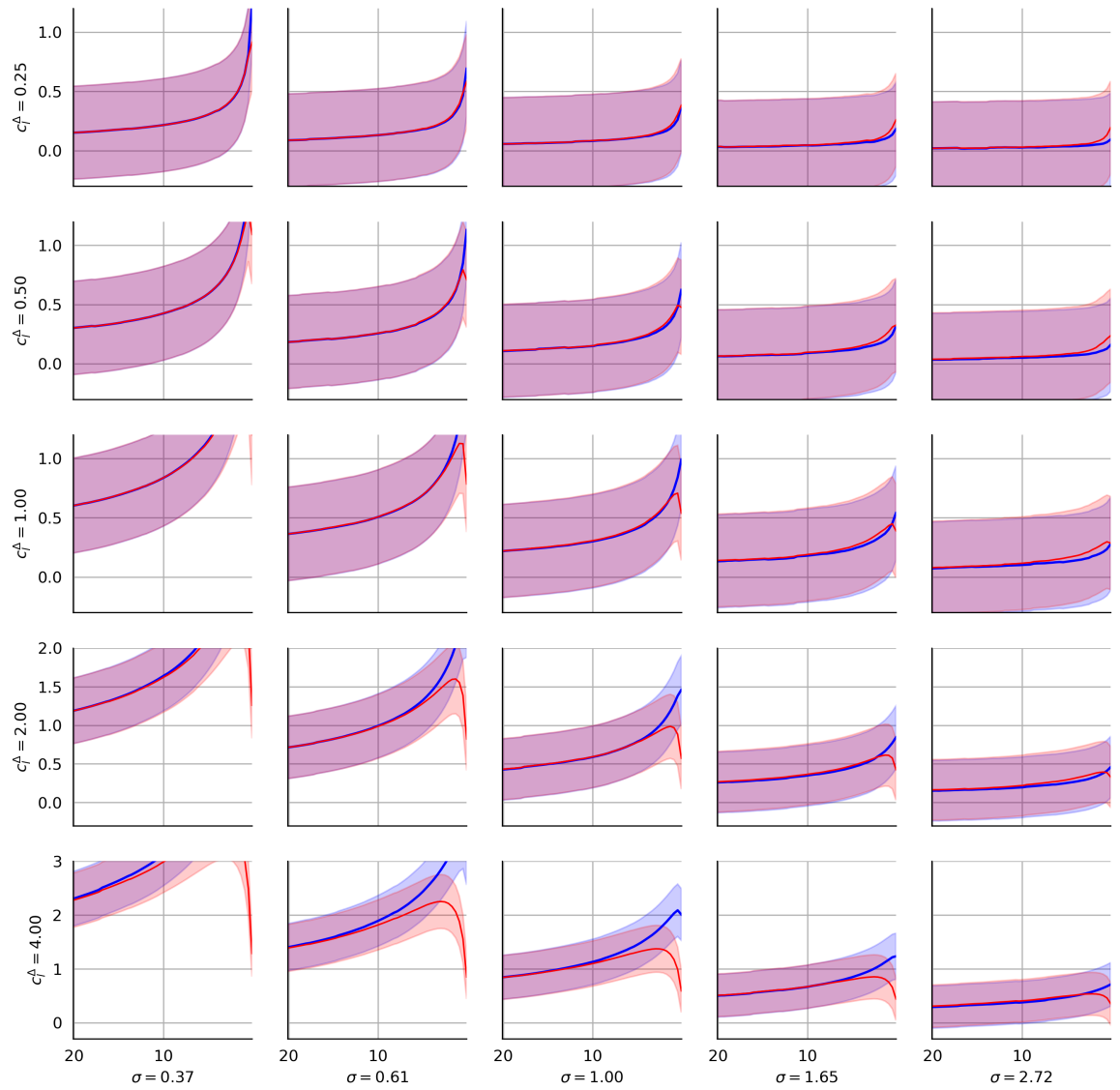
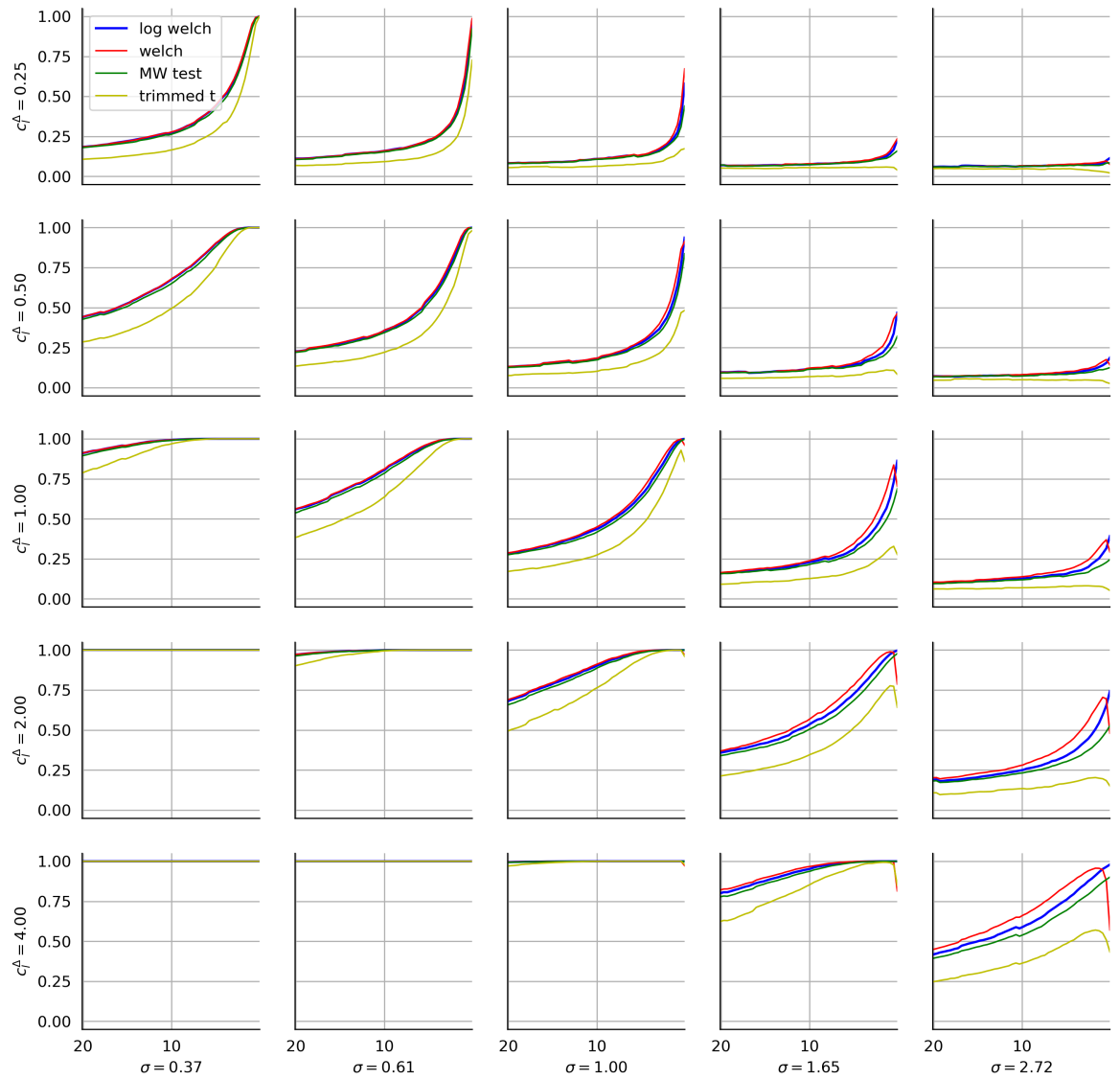**Figure 8.** Cohen's *d* evaluated with Wald distribution

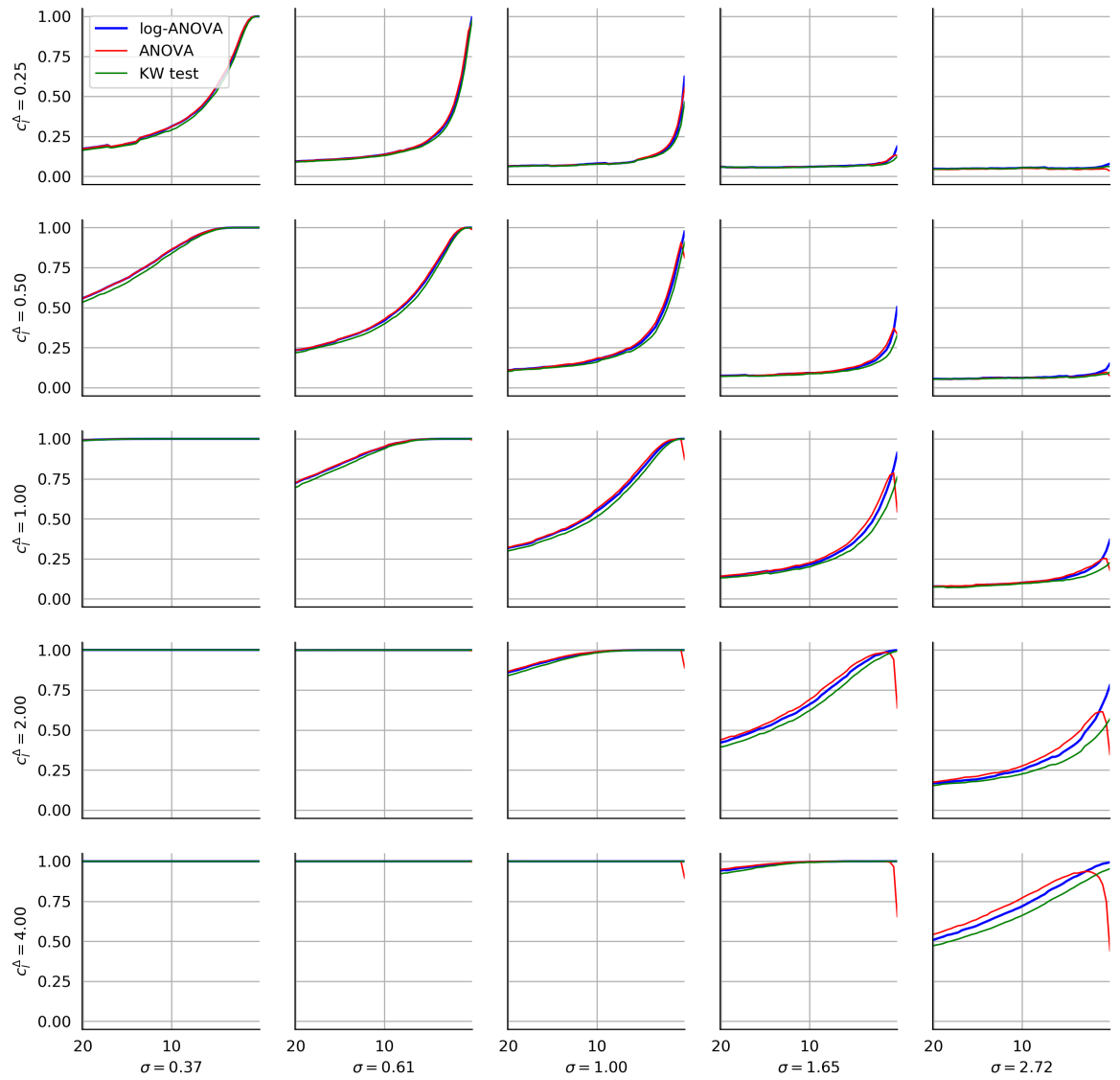**Figure 9.** Two-group tests evaluated with Wald distribution

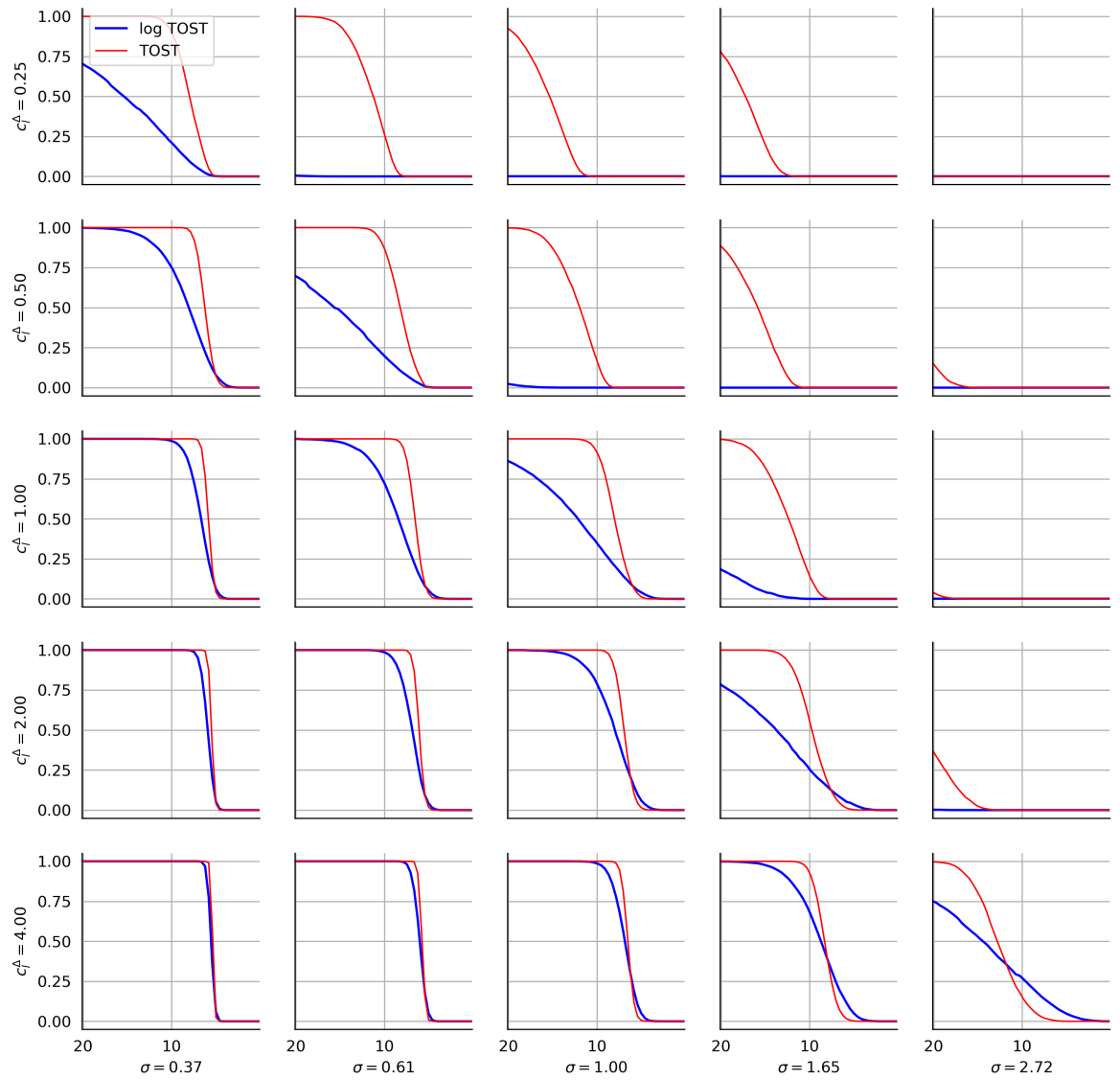**Figure 10.** Three-group tests evaluated with Wald distribution

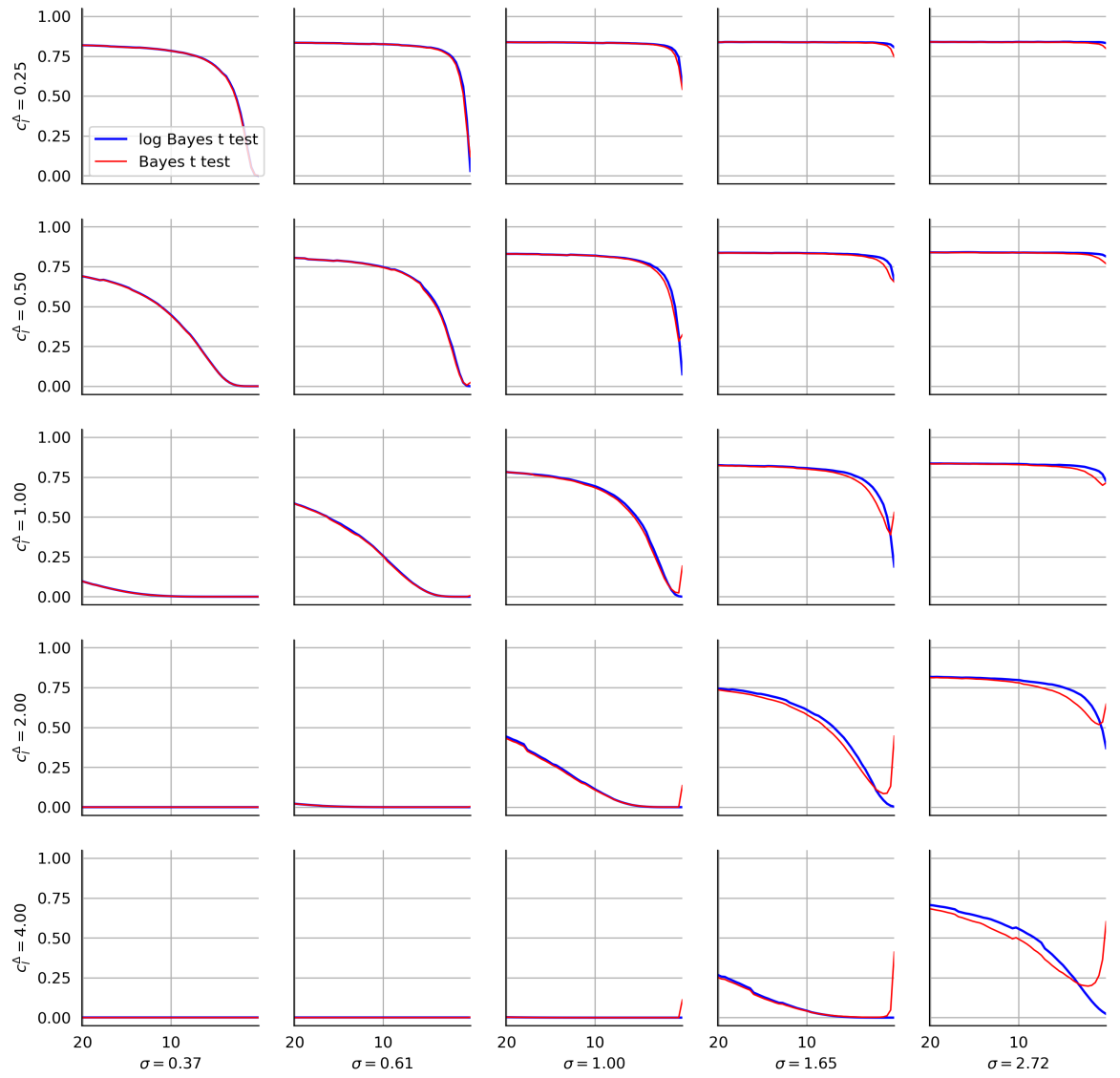**Figure 11.** TOST procedure evaluated with Wald distribution

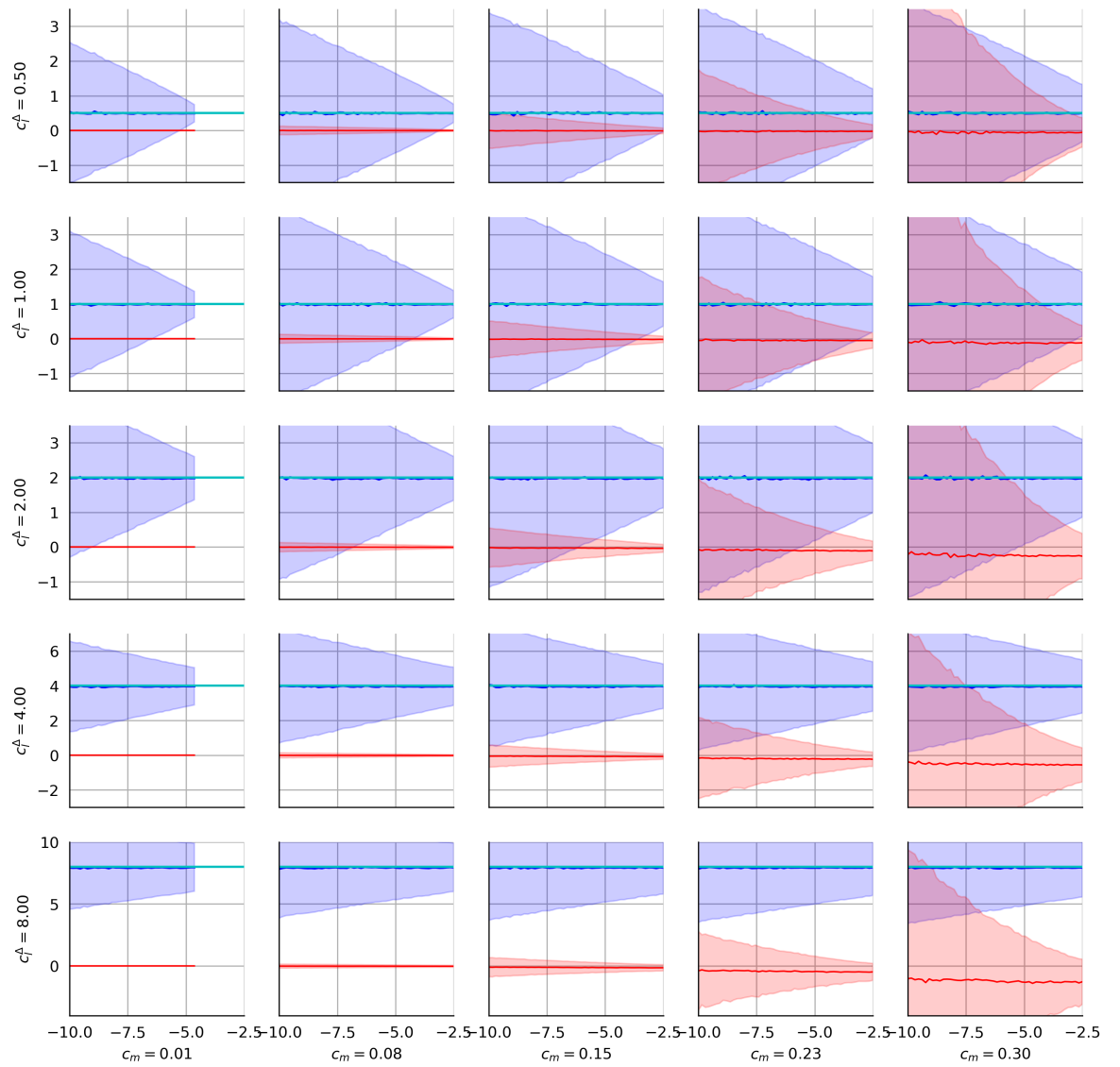**Figure 12.** Bayesian t test evaluated with Wald distribution

Figure 13. Confidence intervals evaluated with Beta prime distribution
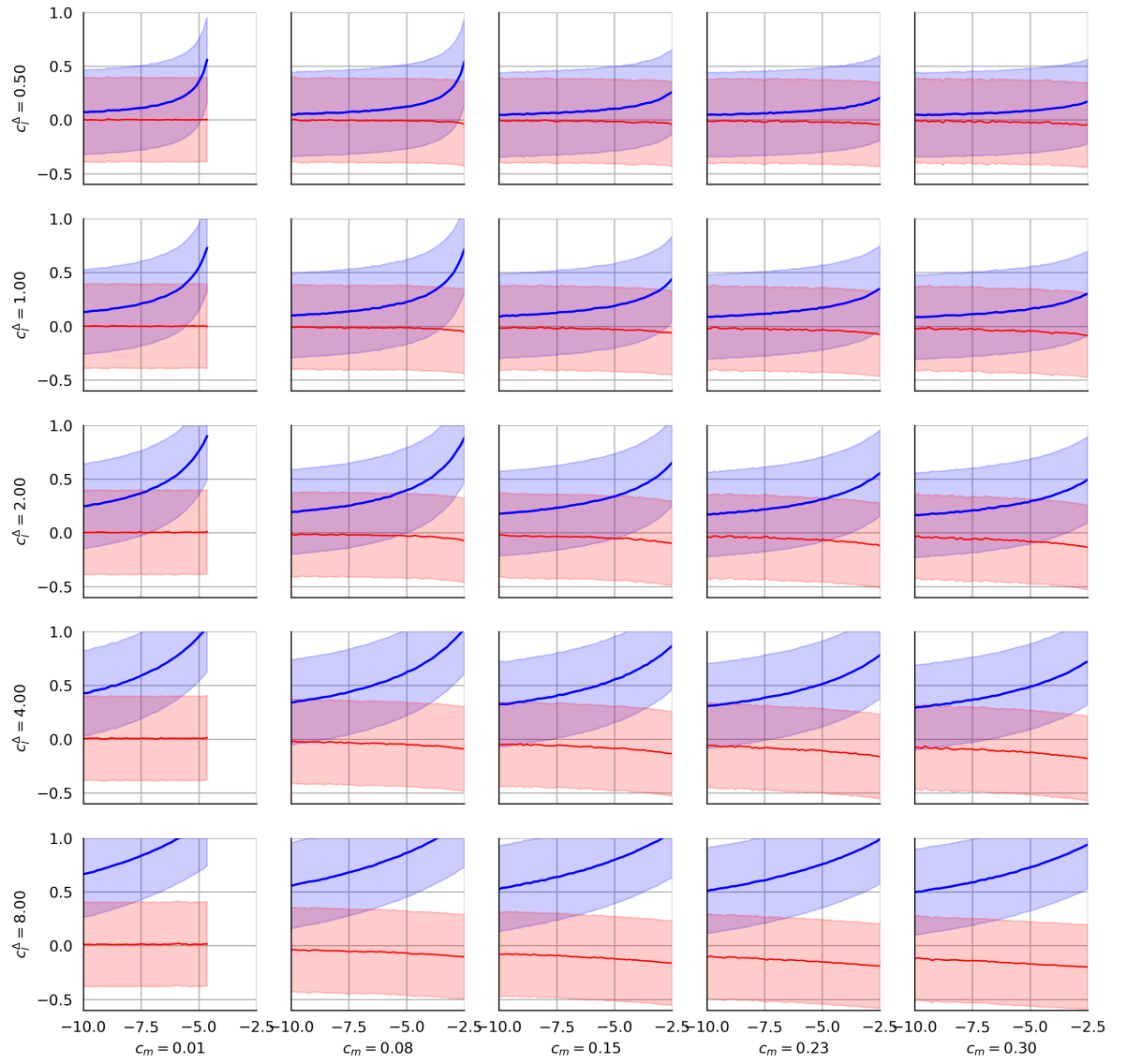
Figure 14. Cohen's d evaluated with Beta prime distribution
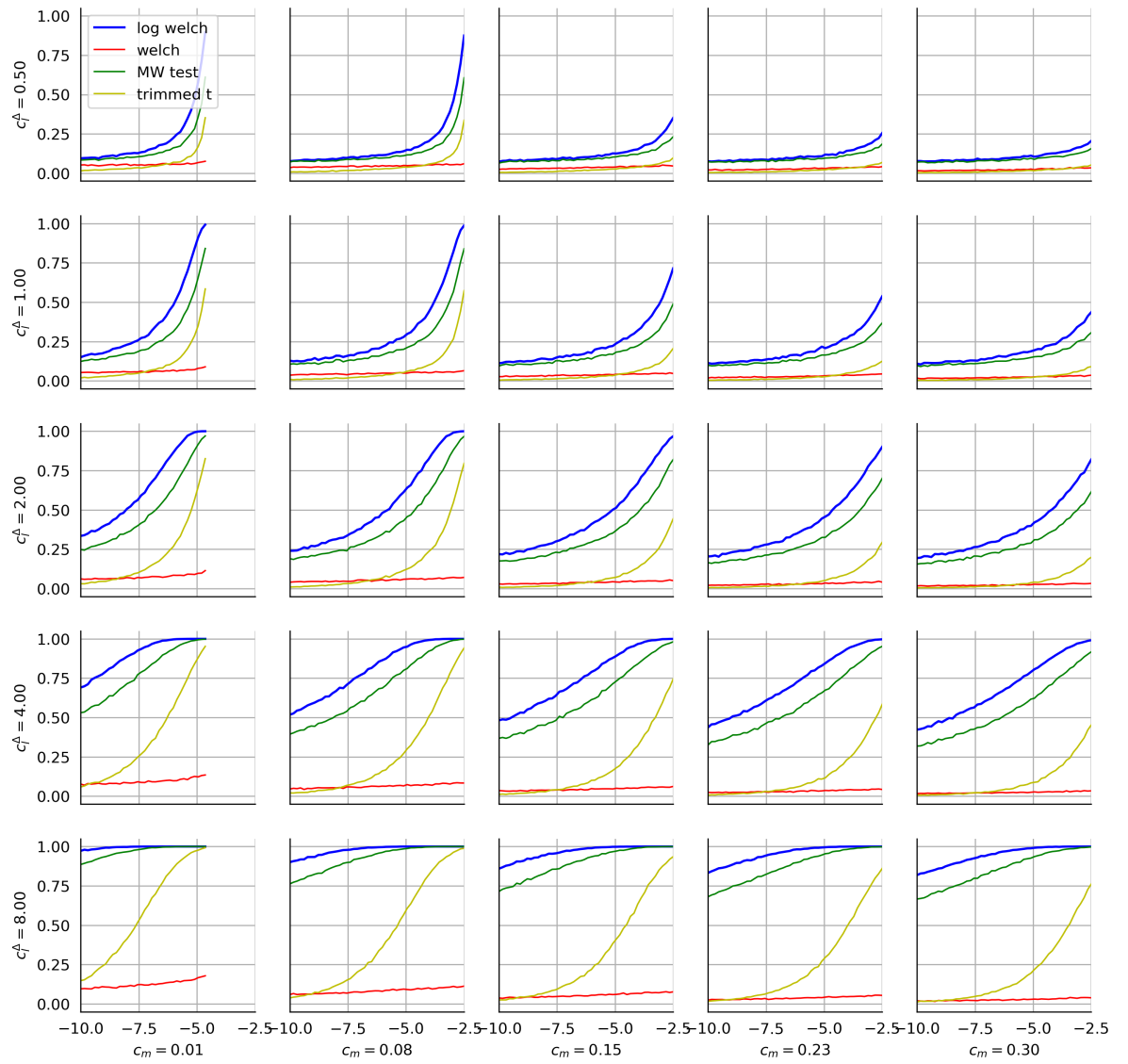
Figure 15. Two-group tests evaluated with Beta prime distribution
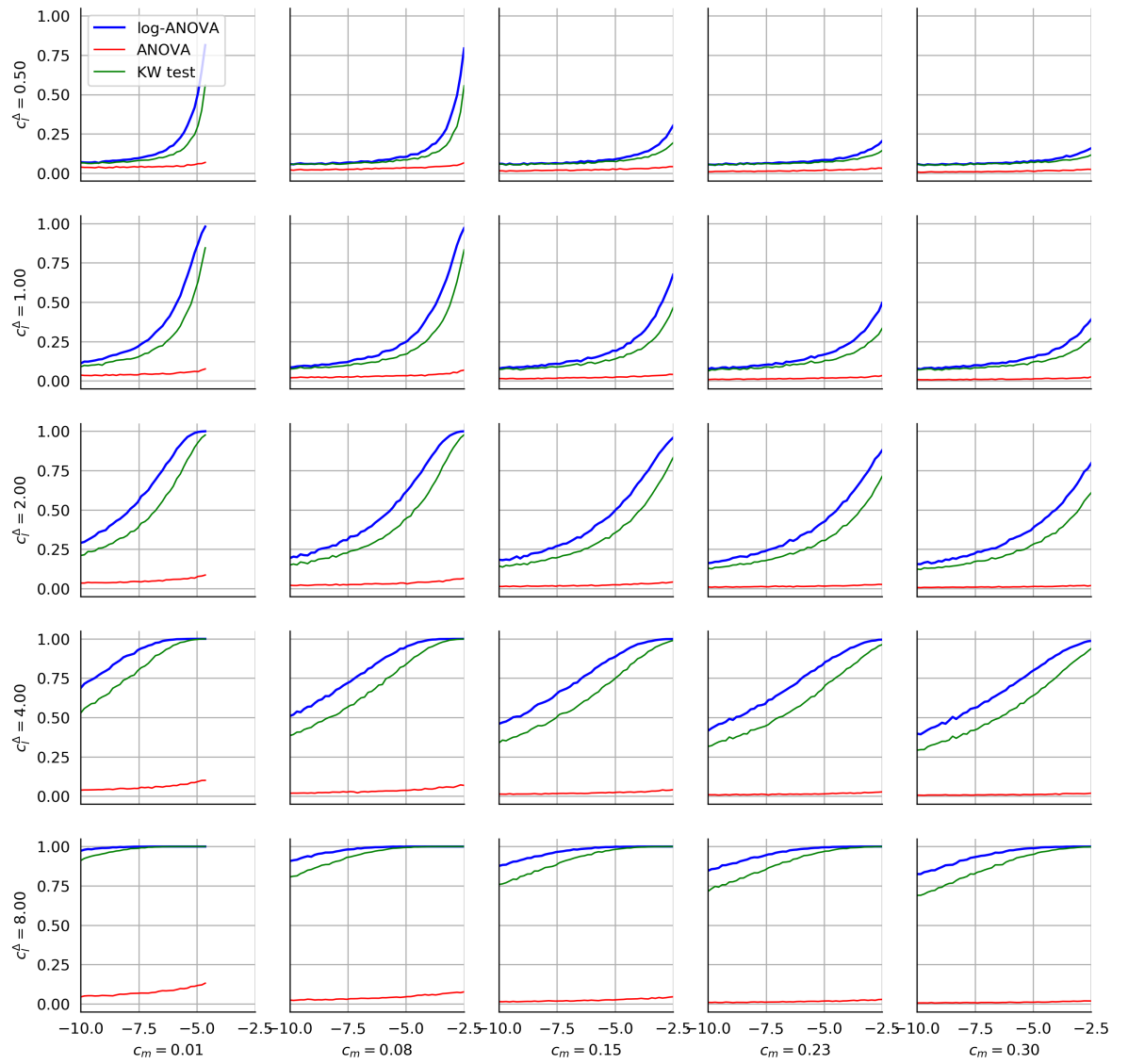
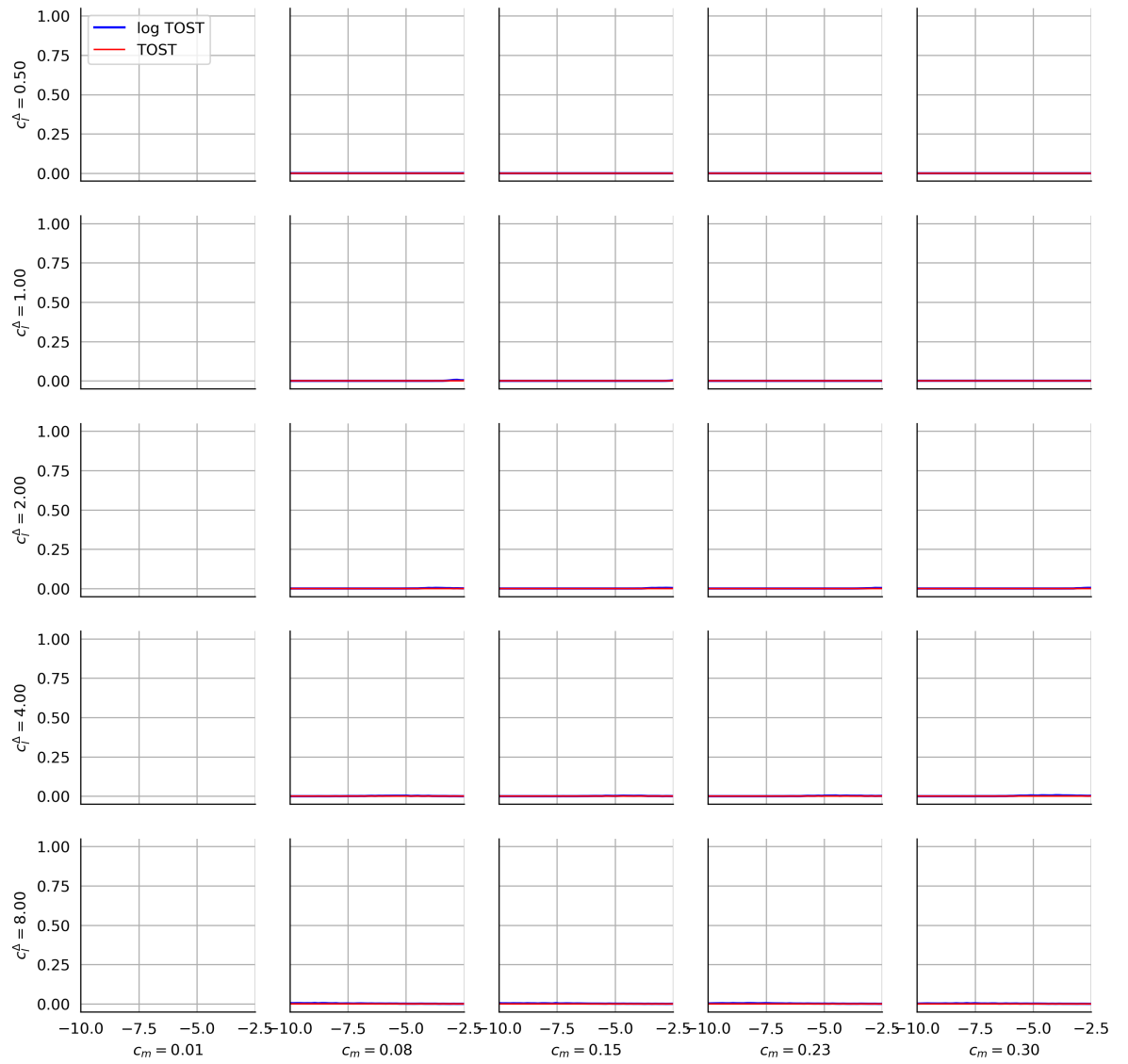**Figure 16.** Three-group tests evaluated with Beta prime distribution

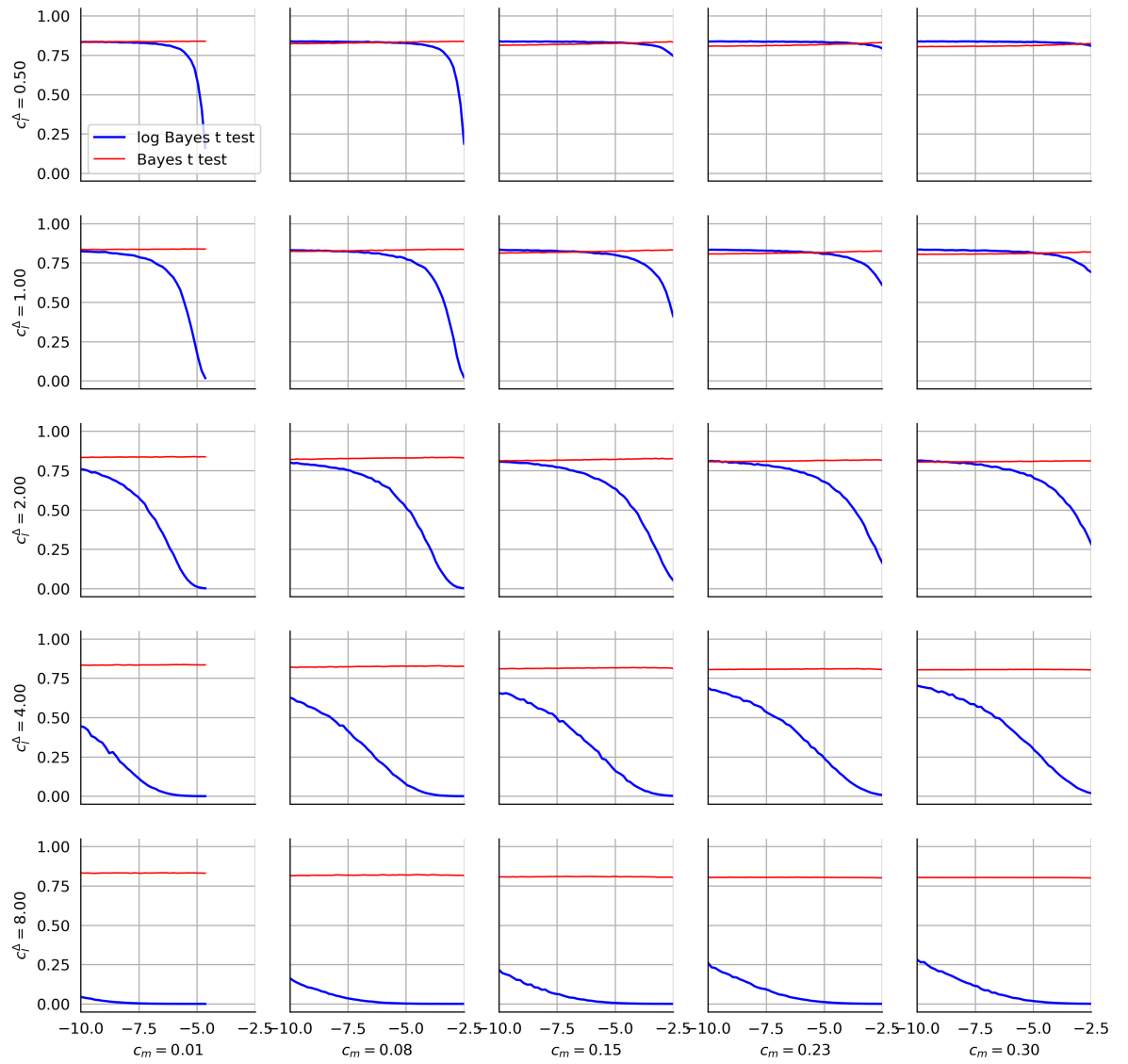**Figure 17.** TOST procedure evaluated with Beta prime distribution

Figure 18. Bayesian t test evaluated with Beta prime distribution
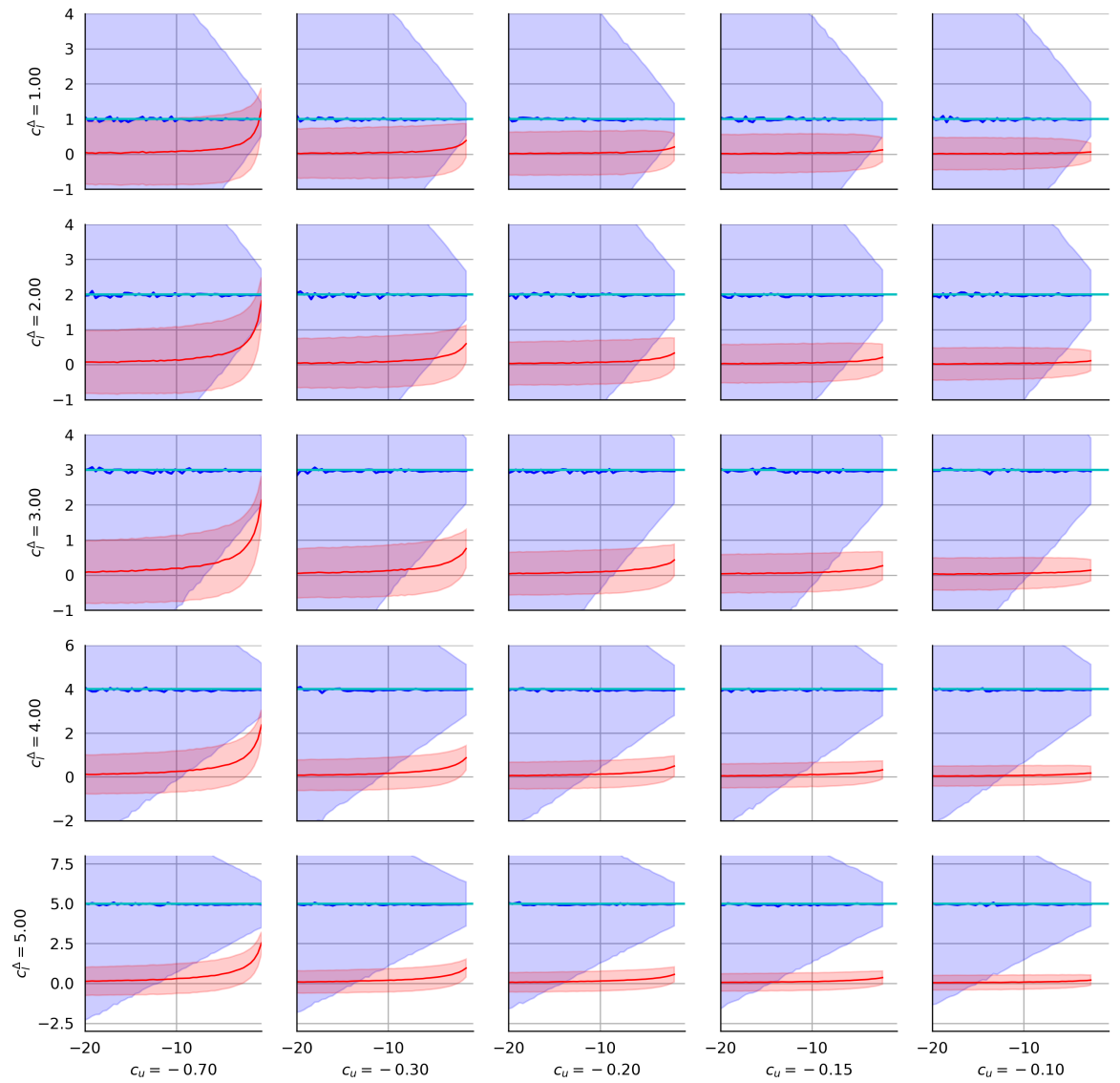
Figure 19. Confidence intervals evaluated with Beta distribution
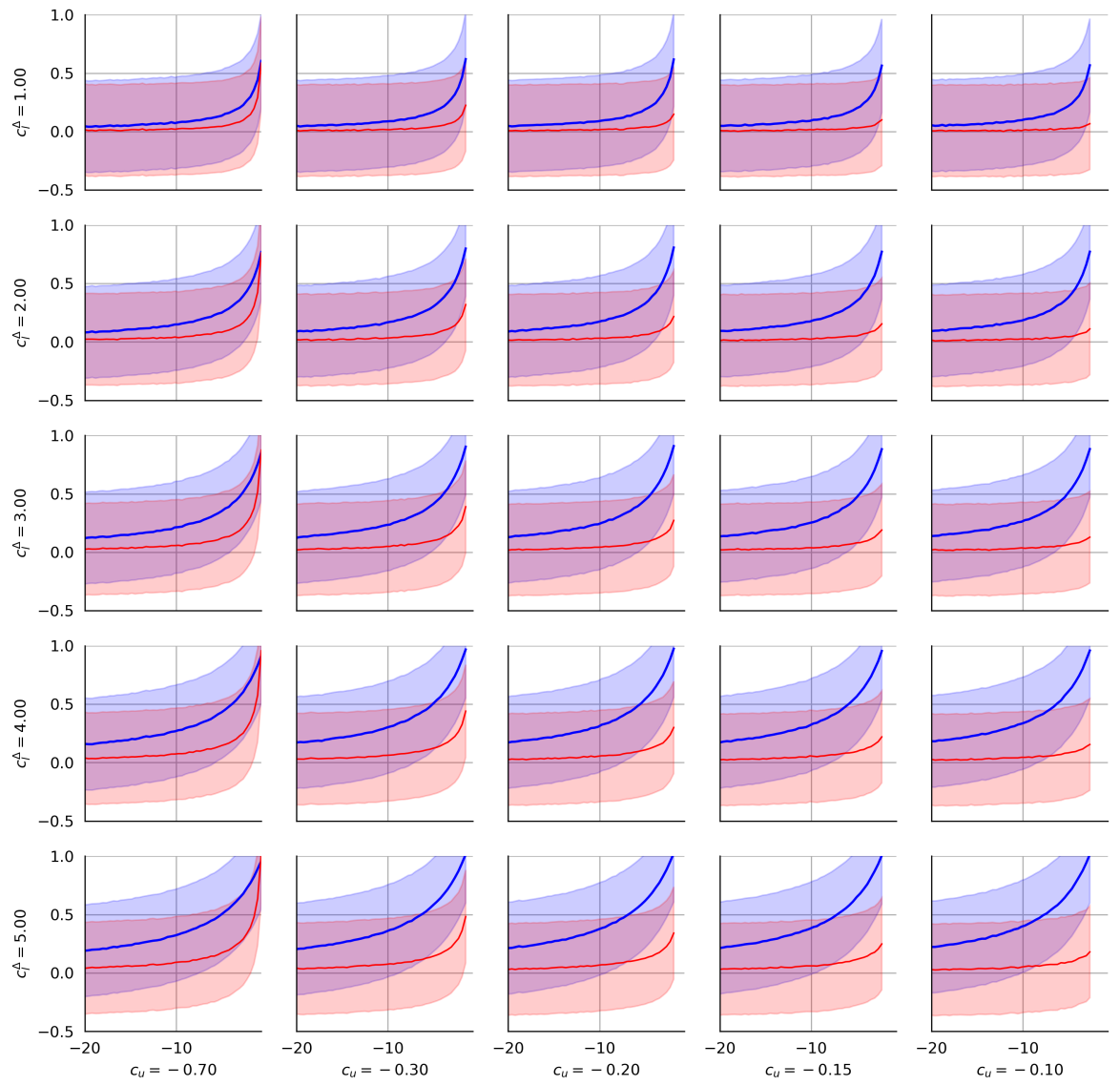
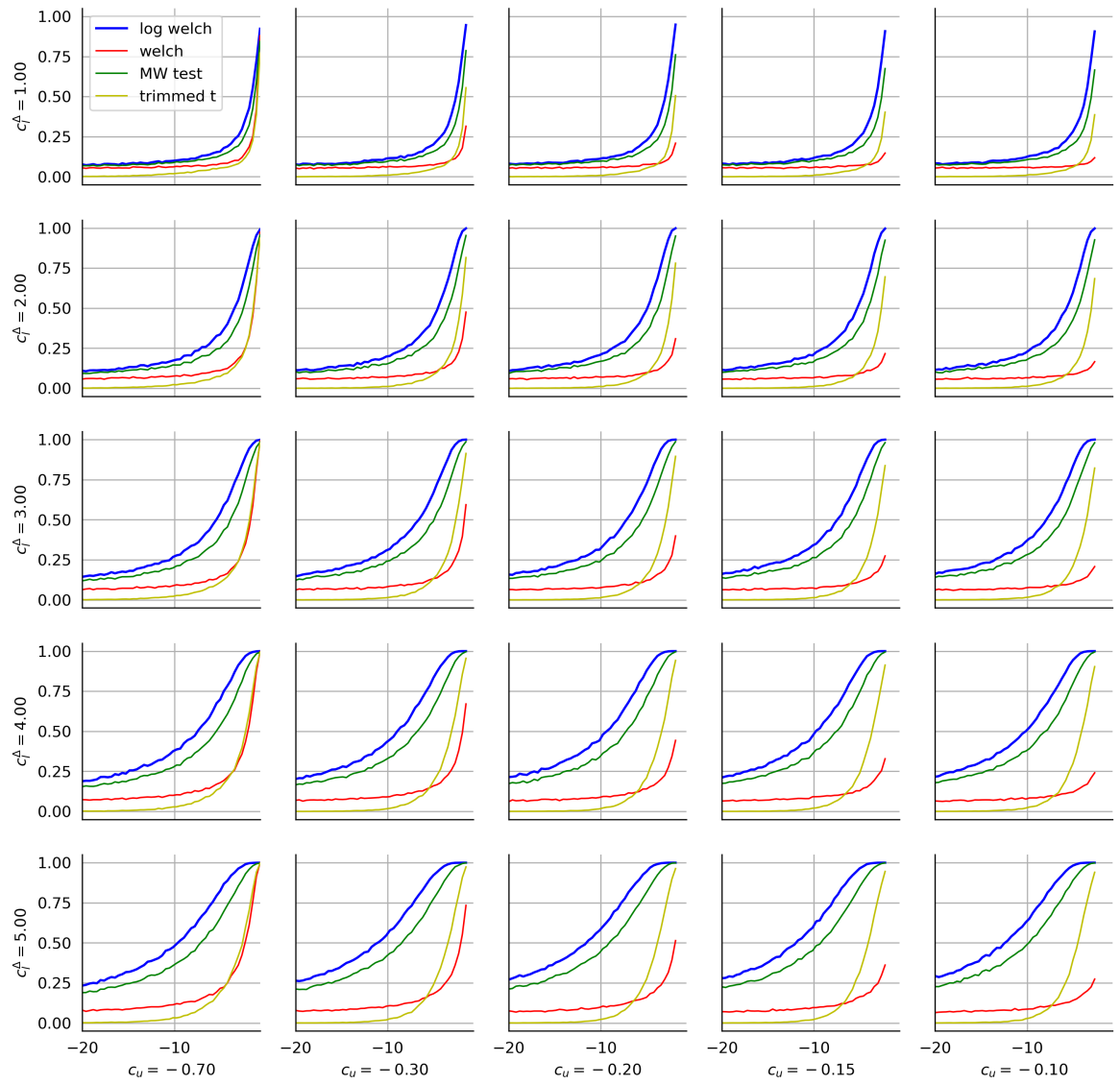**Figure 20.** Cohen's d evaluated with Beta distribution

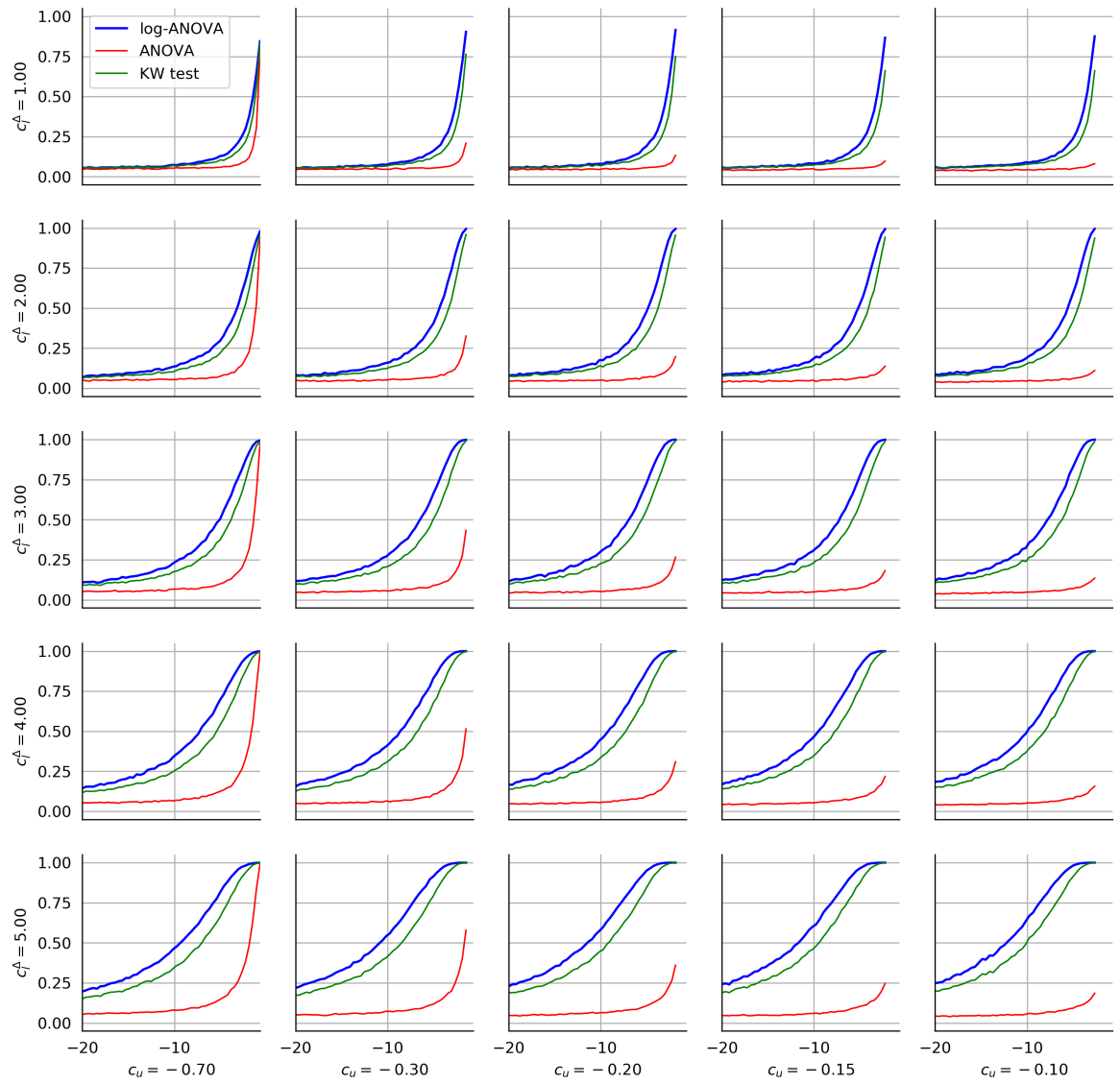**Figure 21.** Two-group tests evaluated with Beta distribution

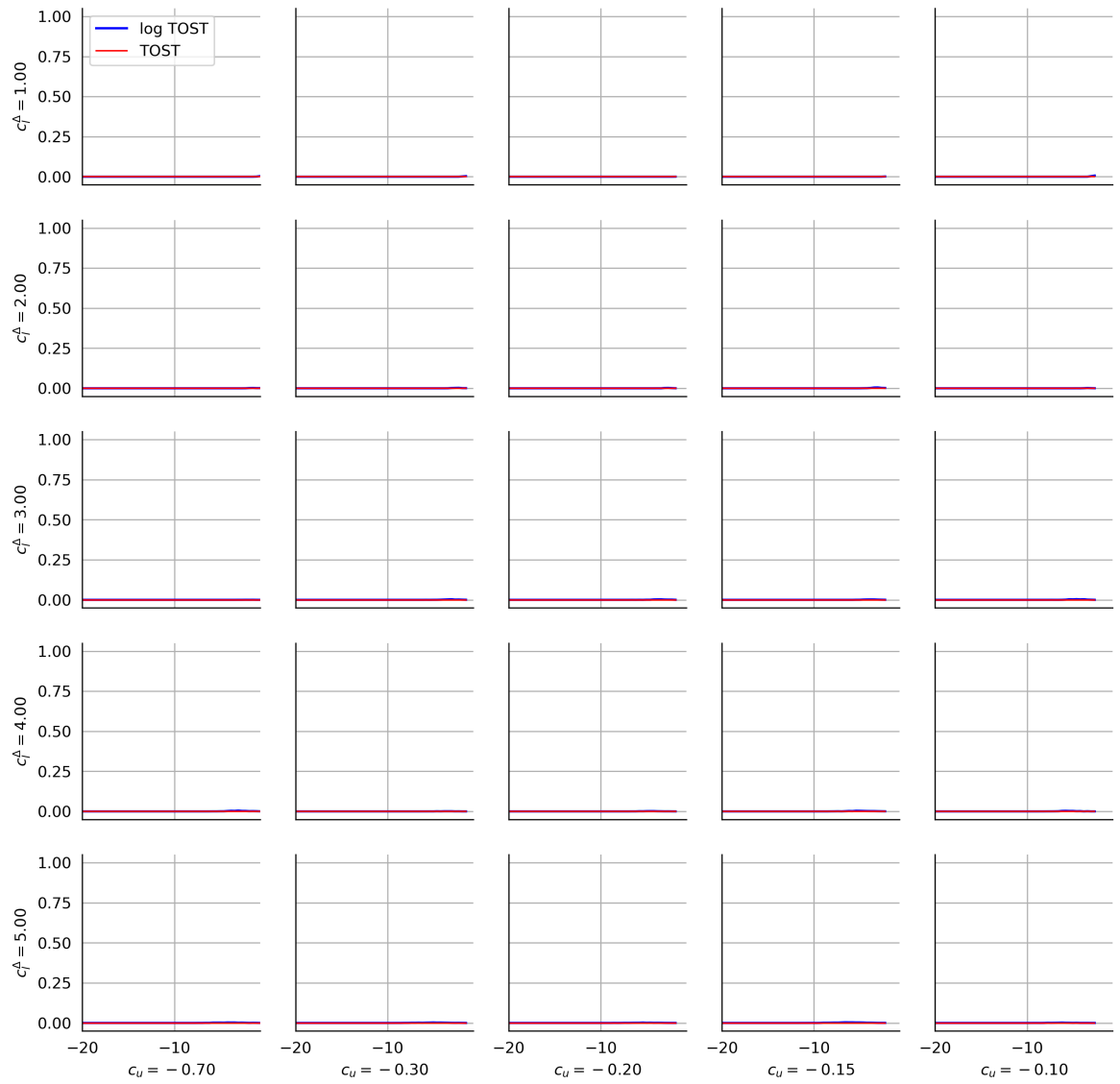**Figure 22.** Three-group tests evaluated with Beta distribution

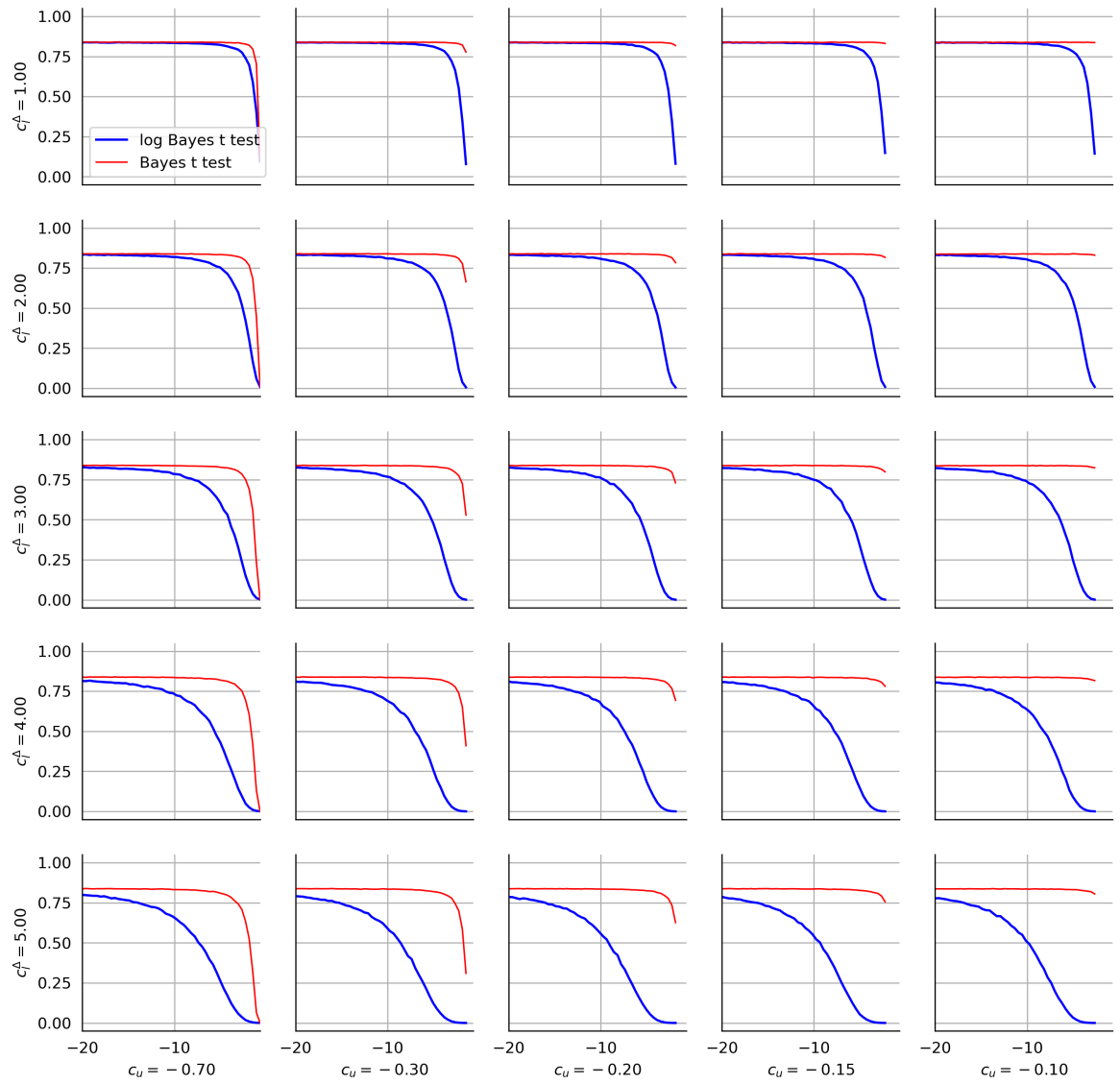**Figure 23.** TOST procedure evaluated with Beta distribution

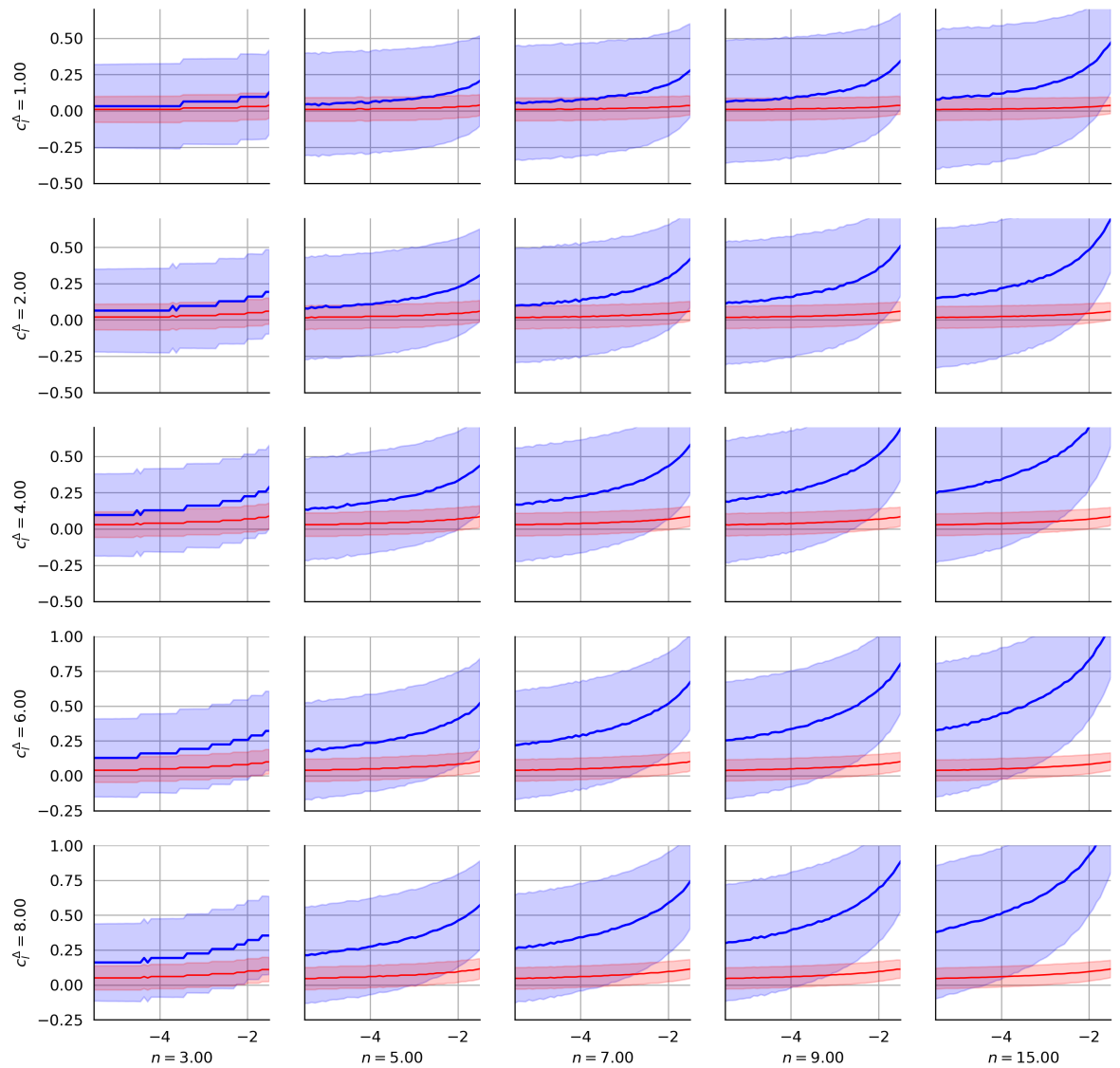**Figure 24.** Bayesian t test evaluated with Beta distribution

Figure 25. Confidence intervals evaluated with Beta-binomial distribution
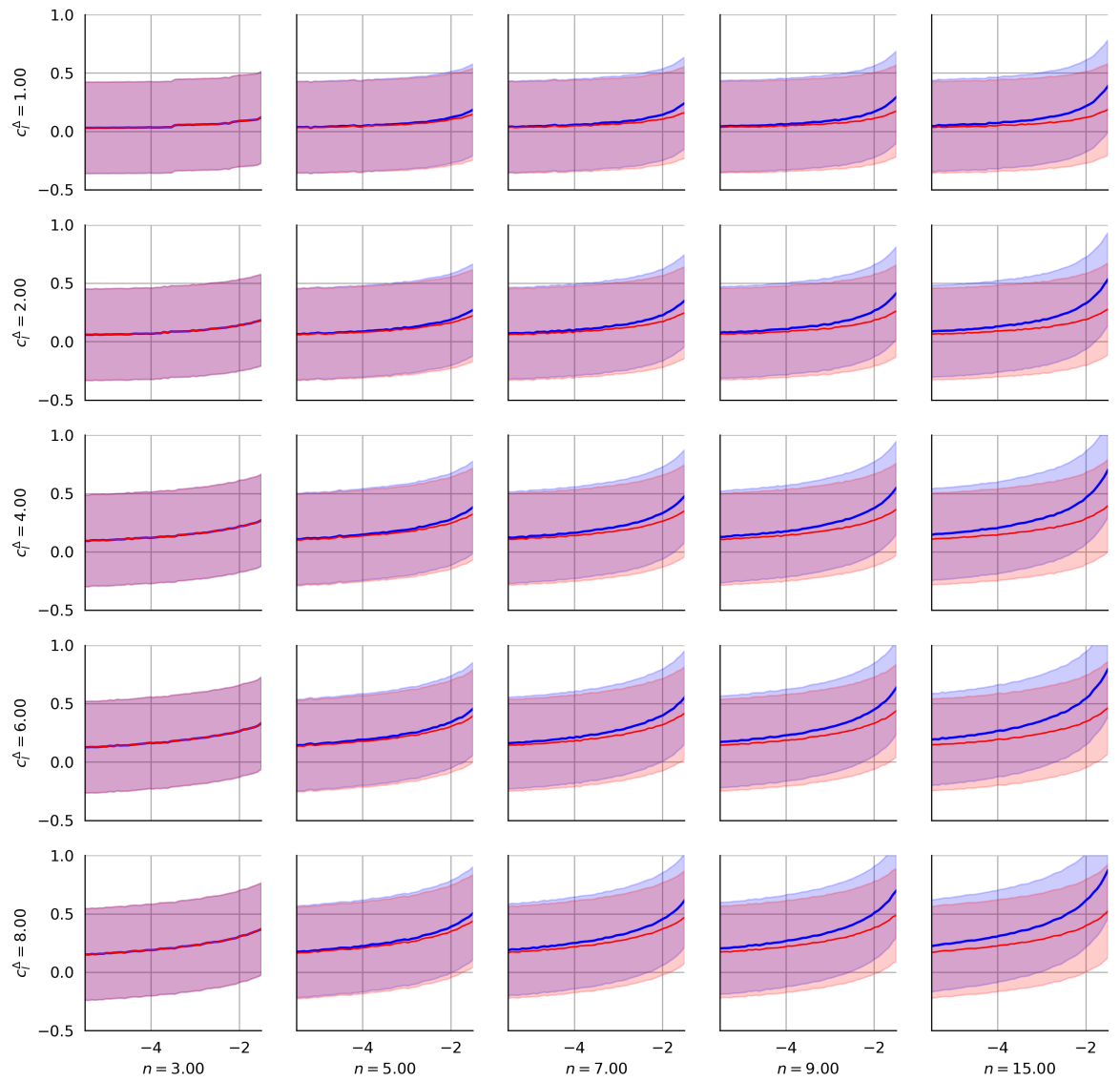
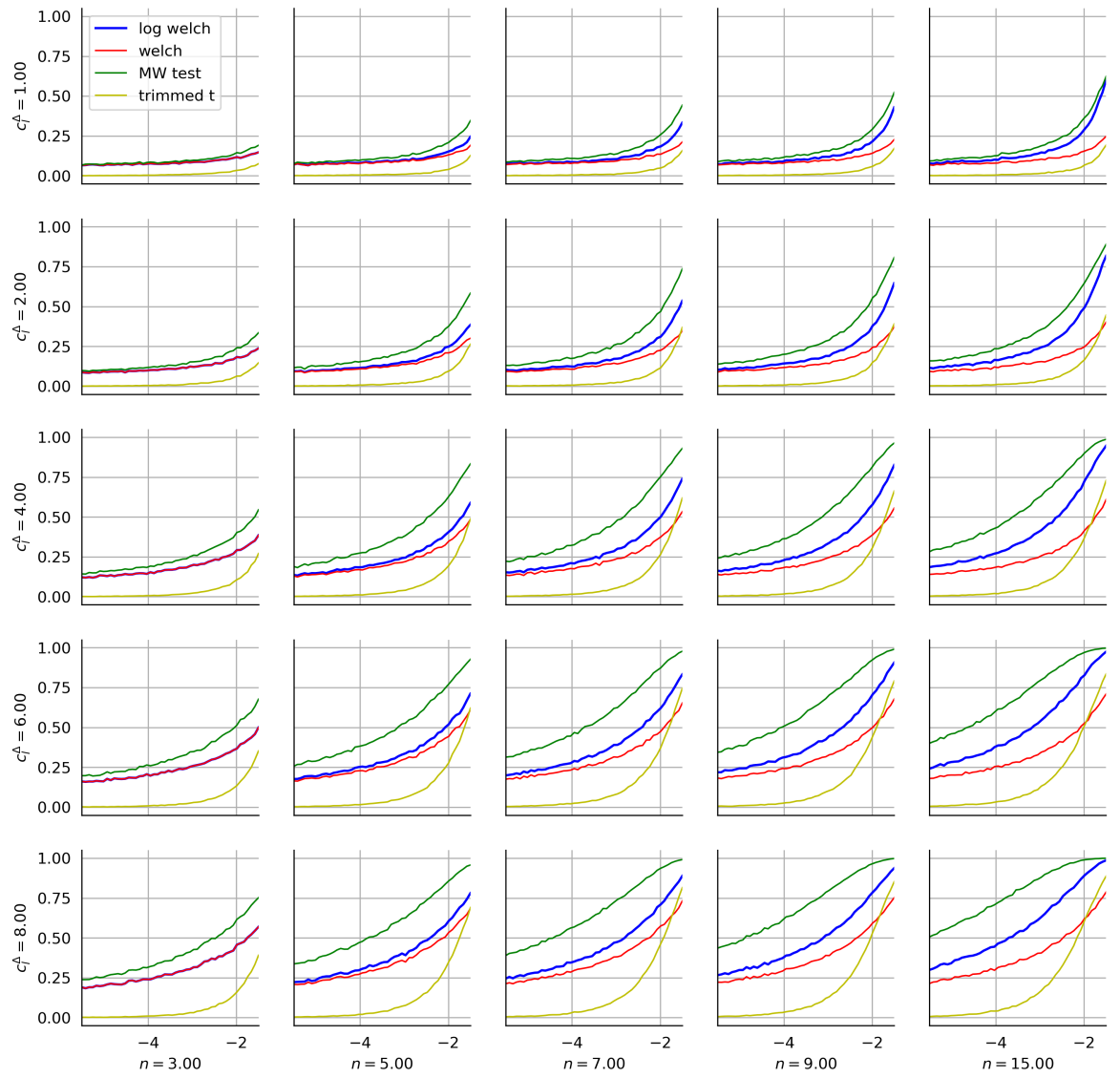**Figure 26.** Cohen's d evaluated with Beta-binomial distribution

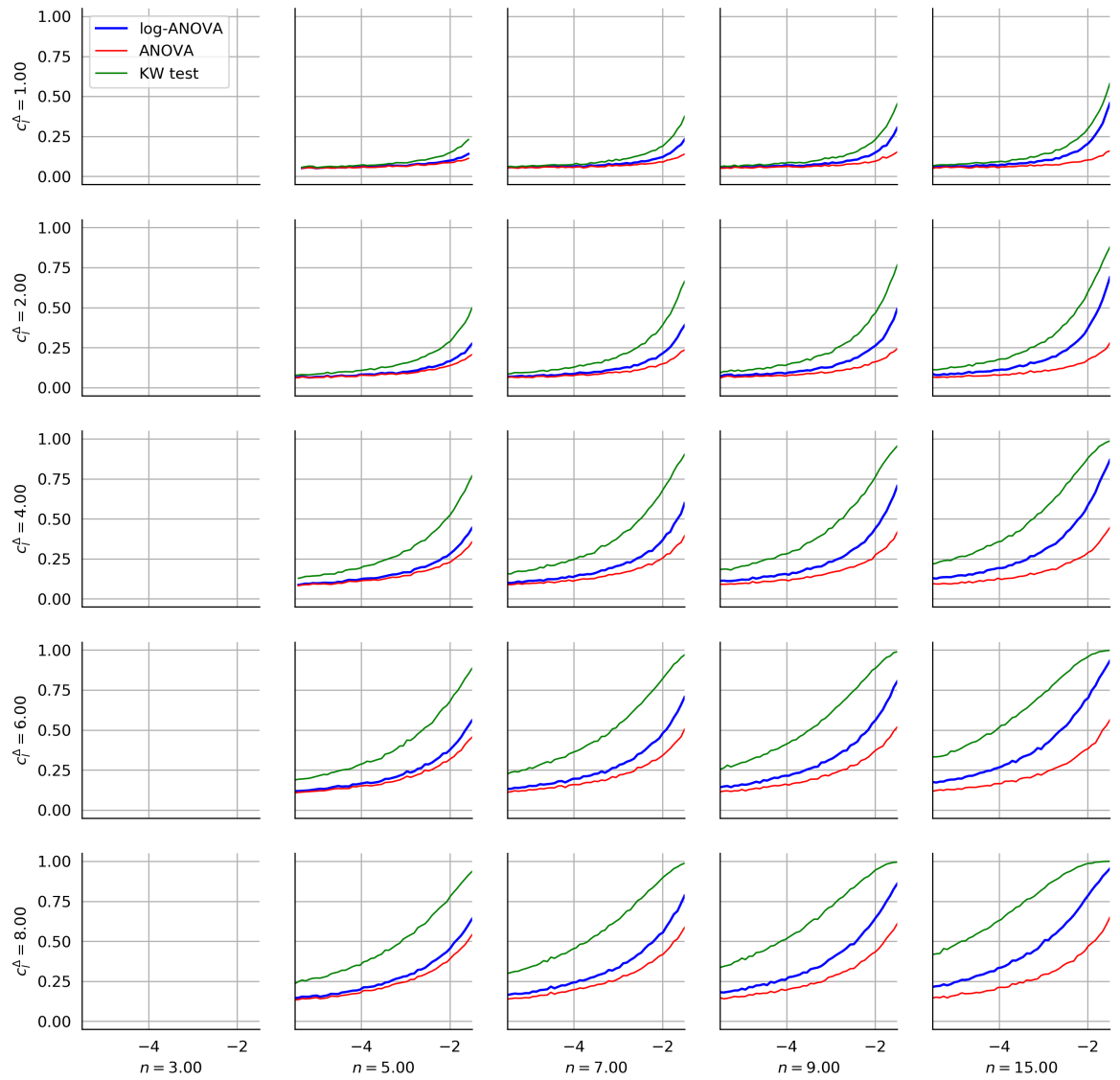**Figure 27.** Two-group tests evaluated with Beta-binomial distribution

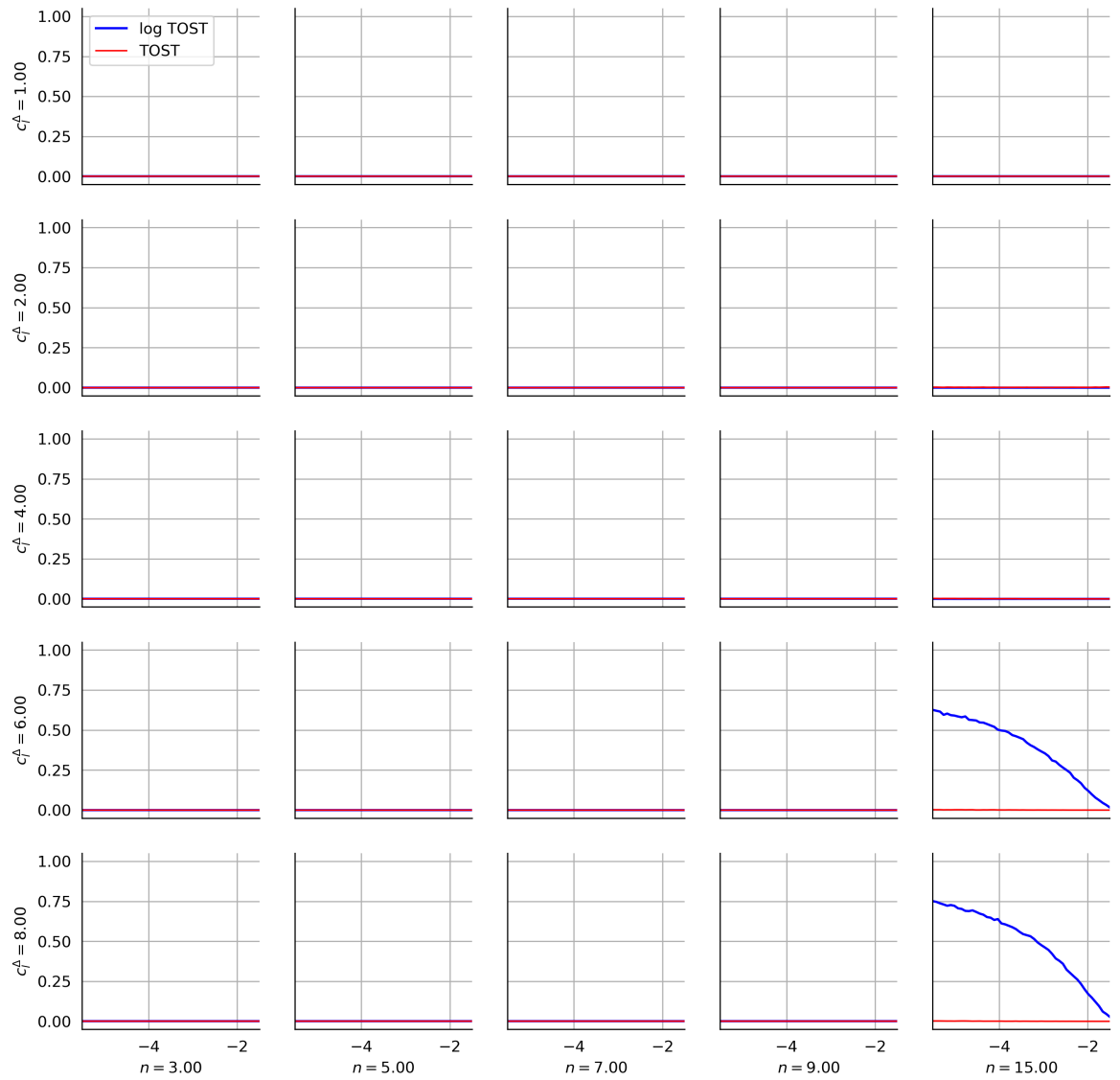**Figure 28.** Three-group tests evaluated with Beta-binomial distribution

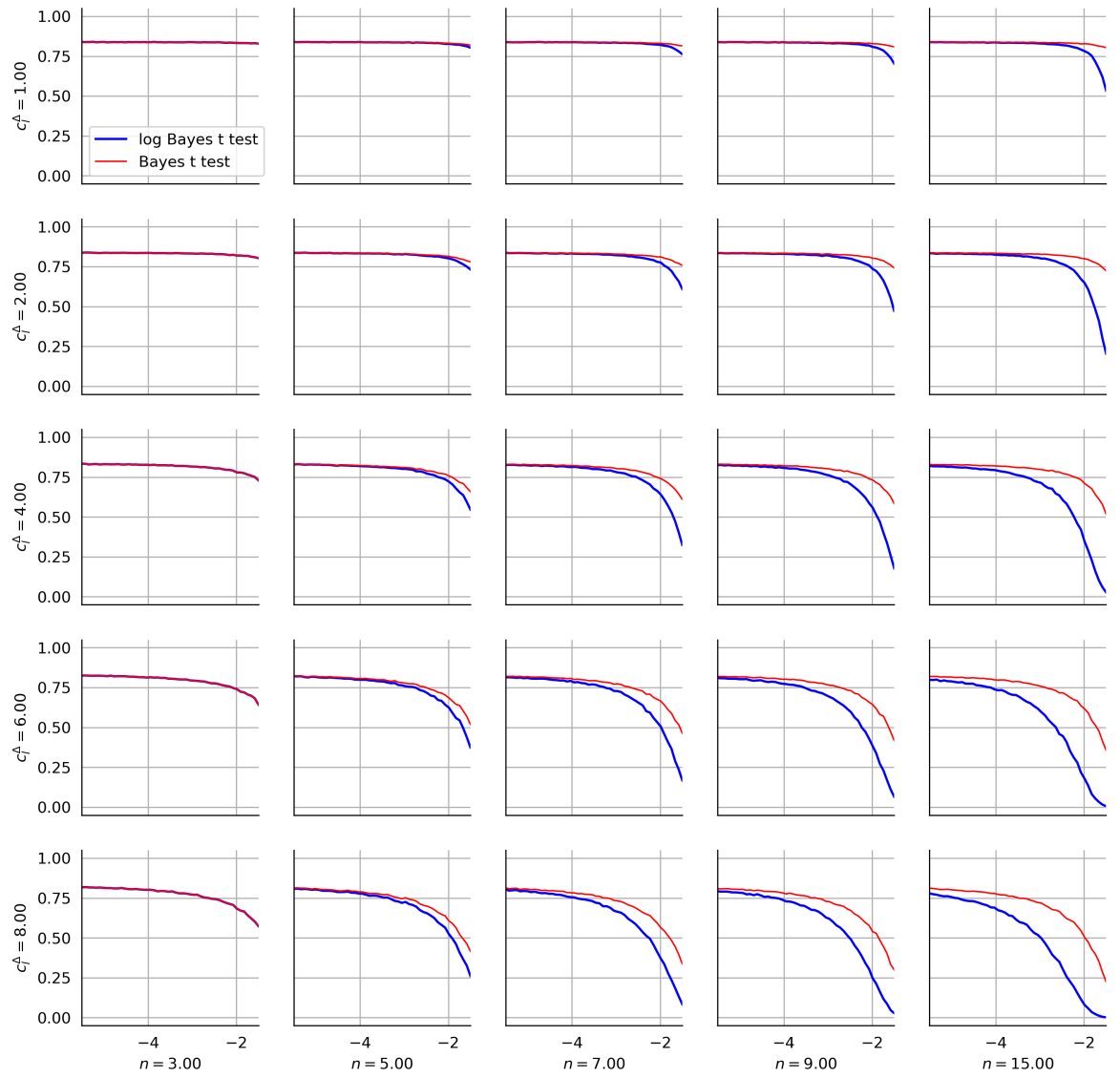**Figure 29.** TOST procedure evaluated with Beta-binomial distribution

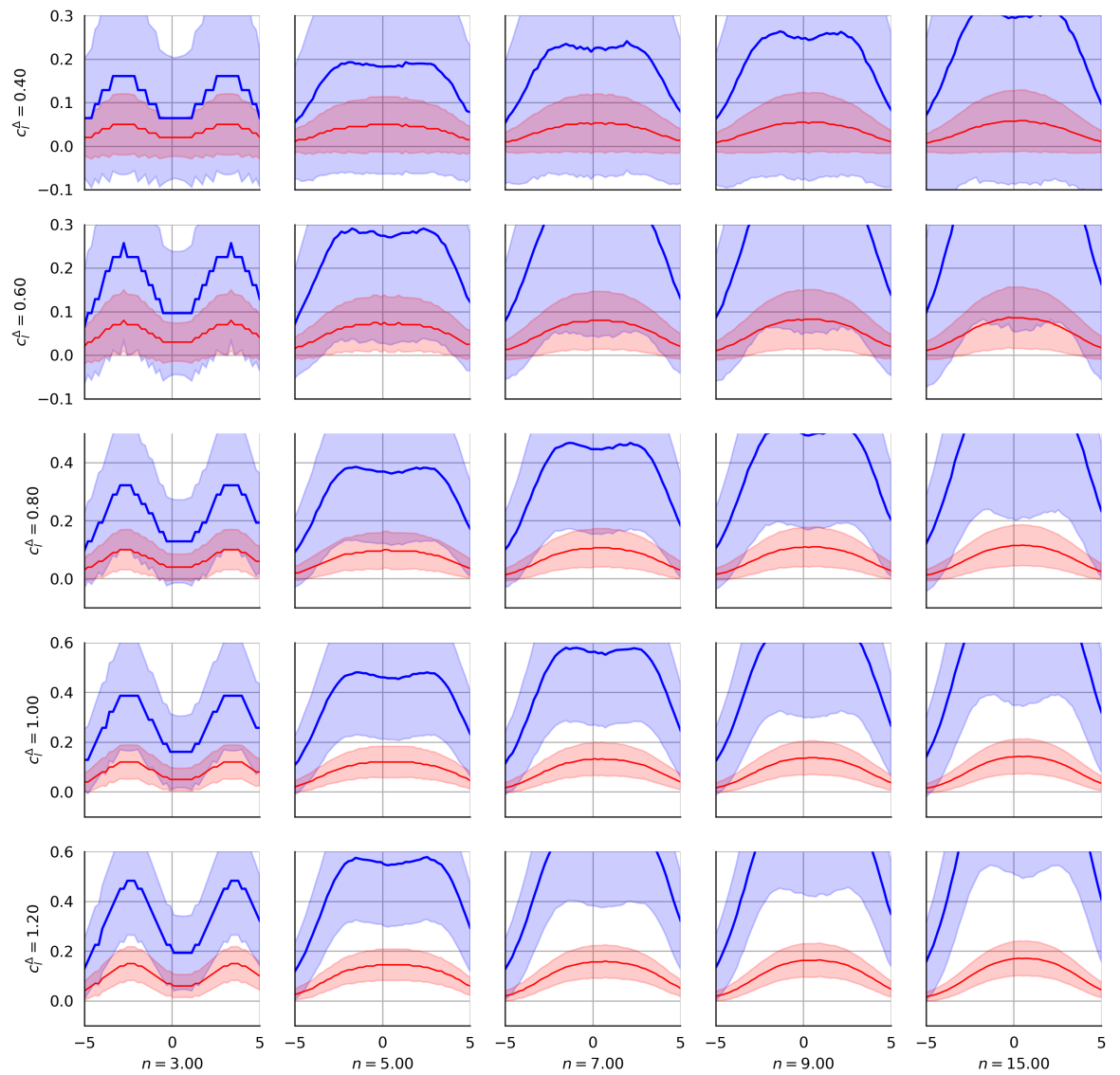**Figure 30.** Bayesian t test evaluated with Beta-binomial distribution

Figure 31. Confidence intervals evaluated with Ordered logistic regression model
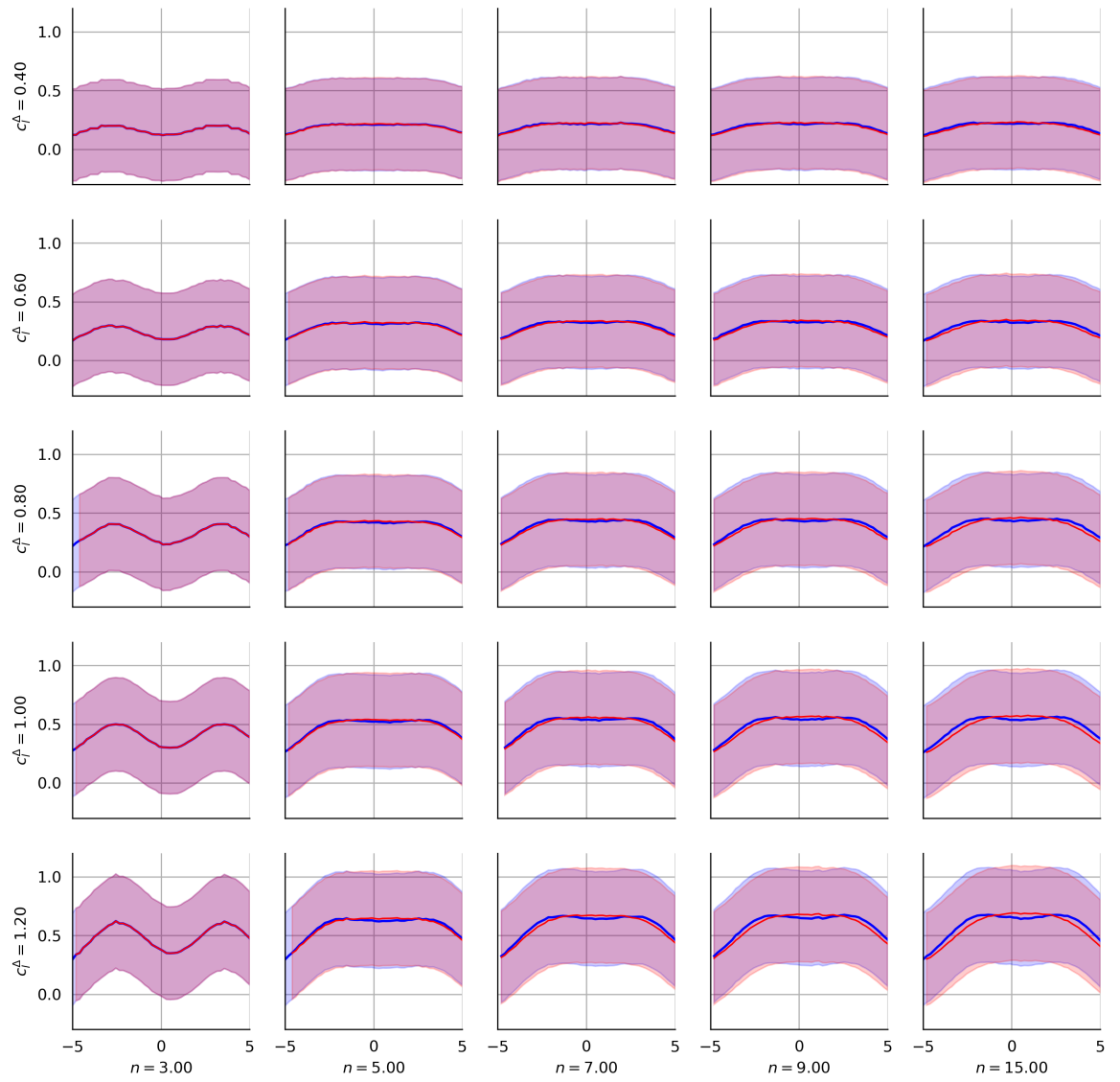
Figure 32. Cohen's *d* evaluated with Ordered logistic regression model
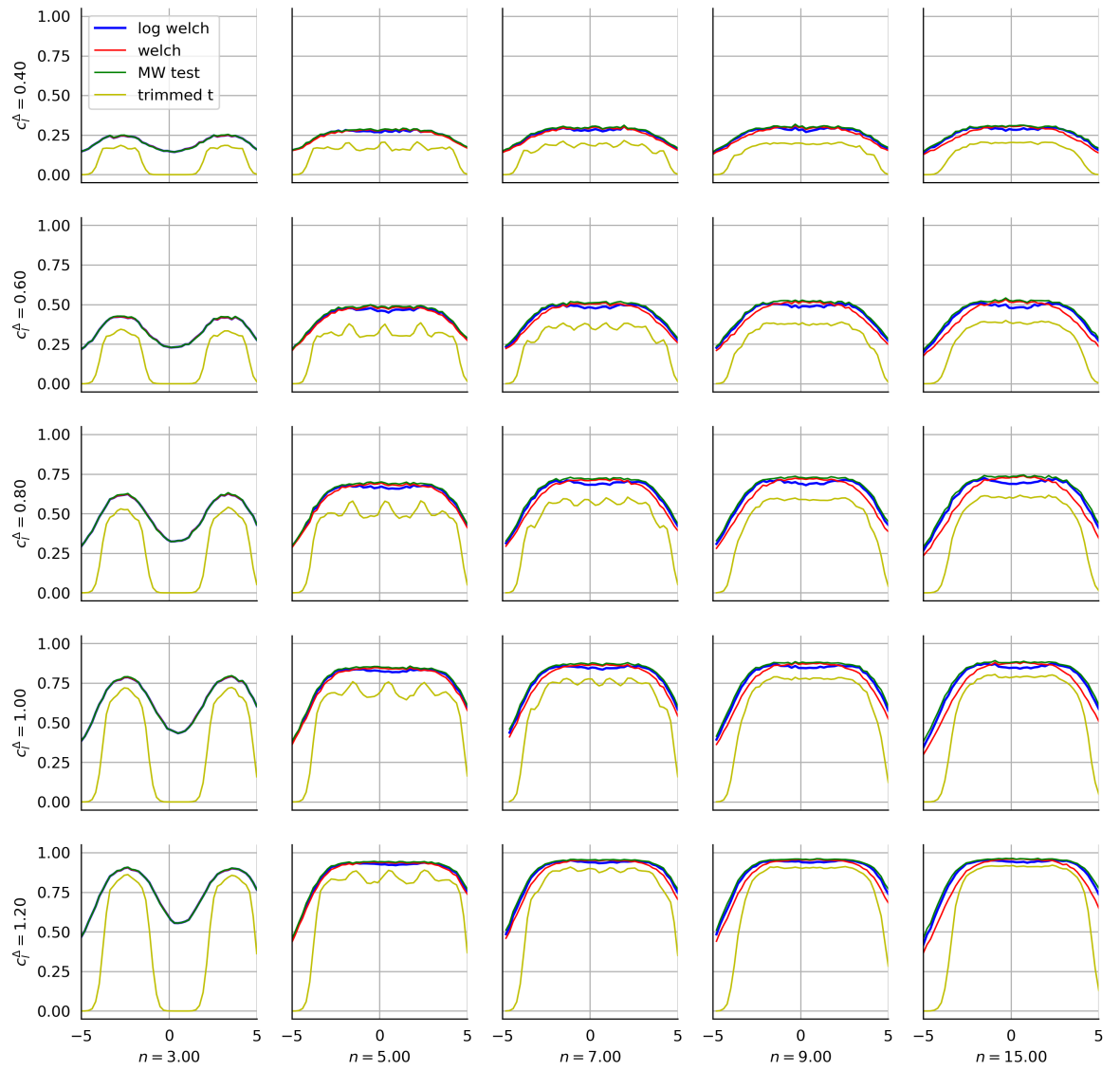
Figure 33. Two-group tests evaluated with Ordered logistic regression model
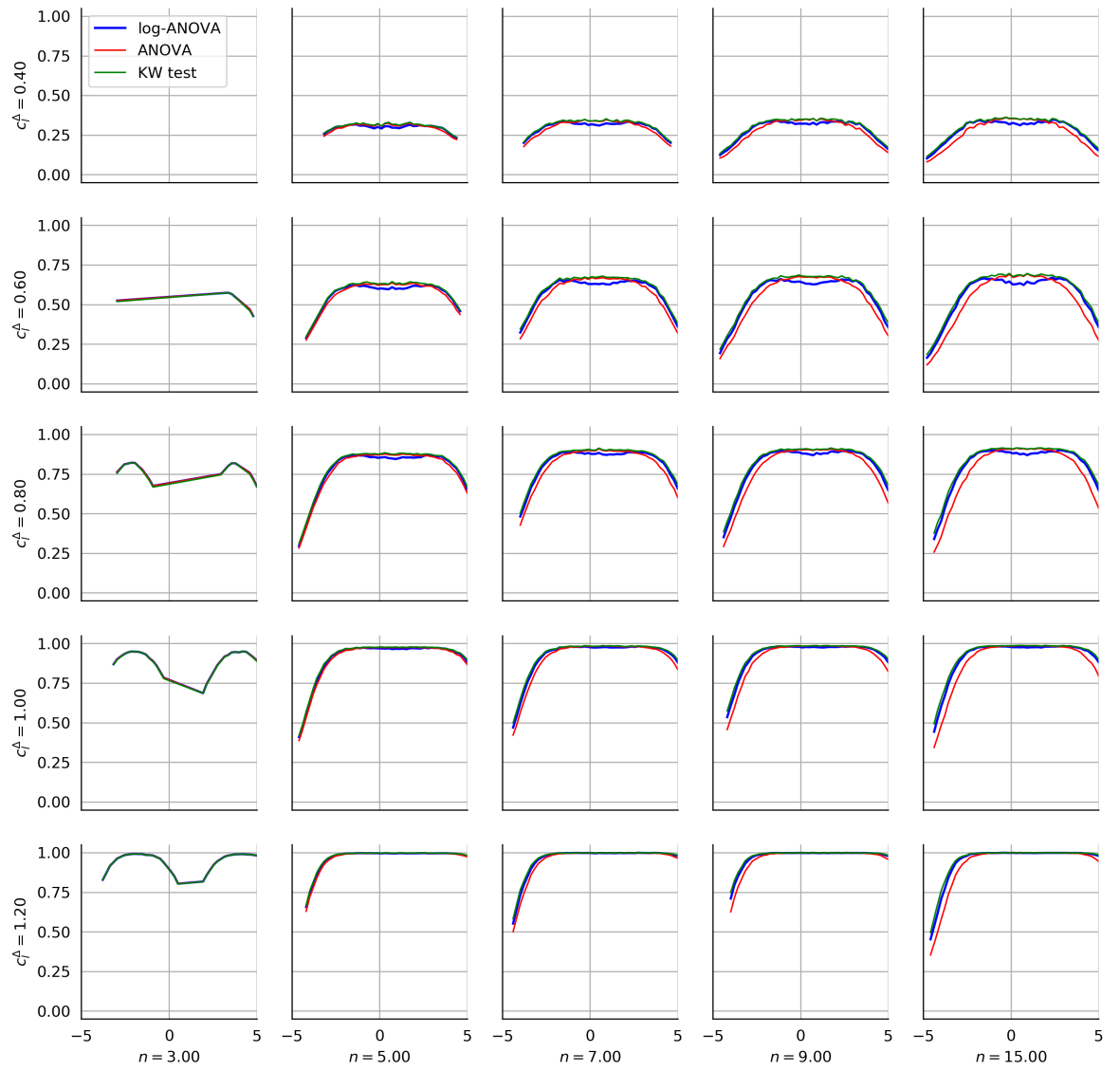
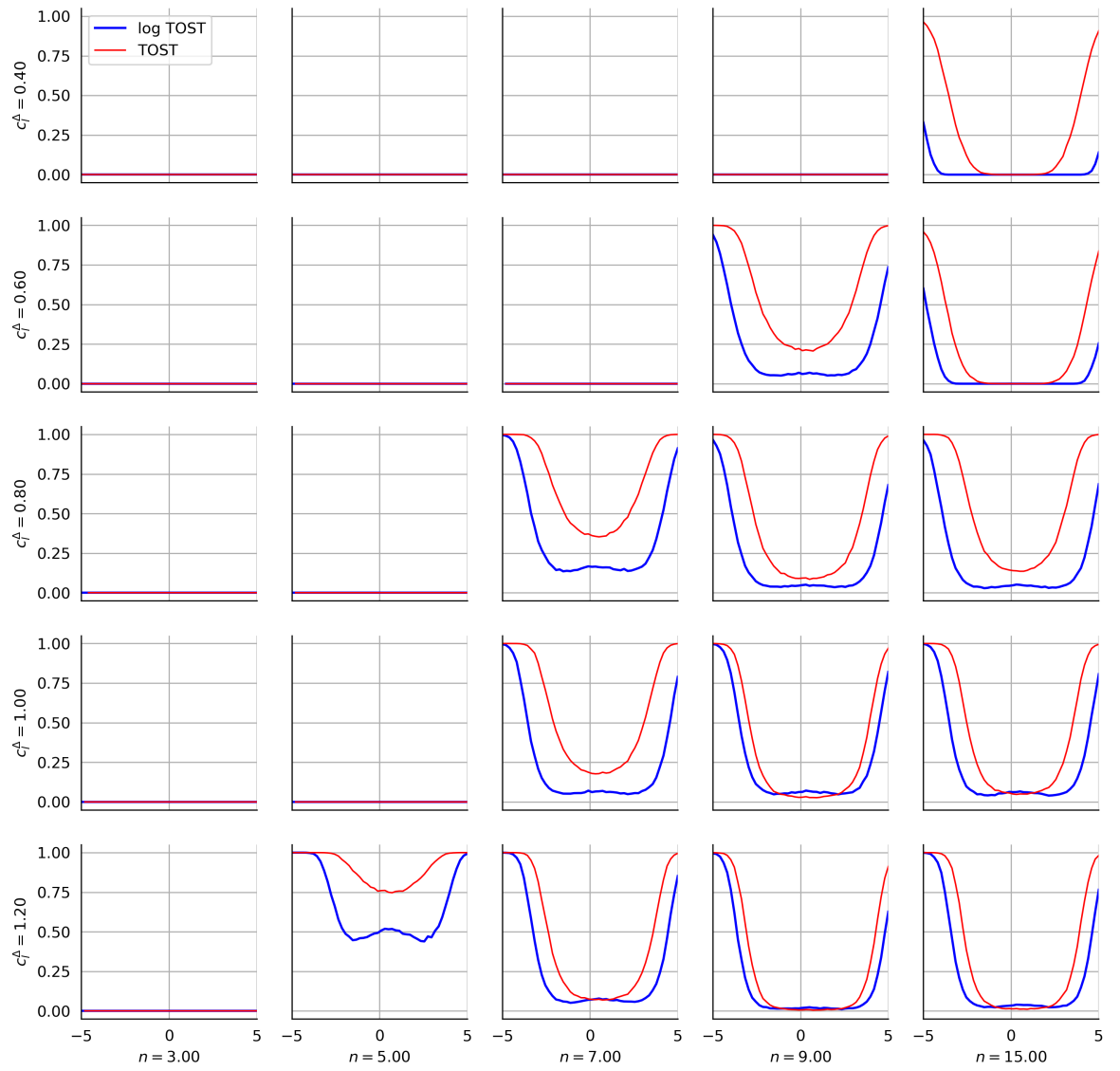**Figure 34.** Three-group tests evaluated with Ordered logistic regression model

Figure 35. TOST procedure evaluated with Ordered logistic regression model
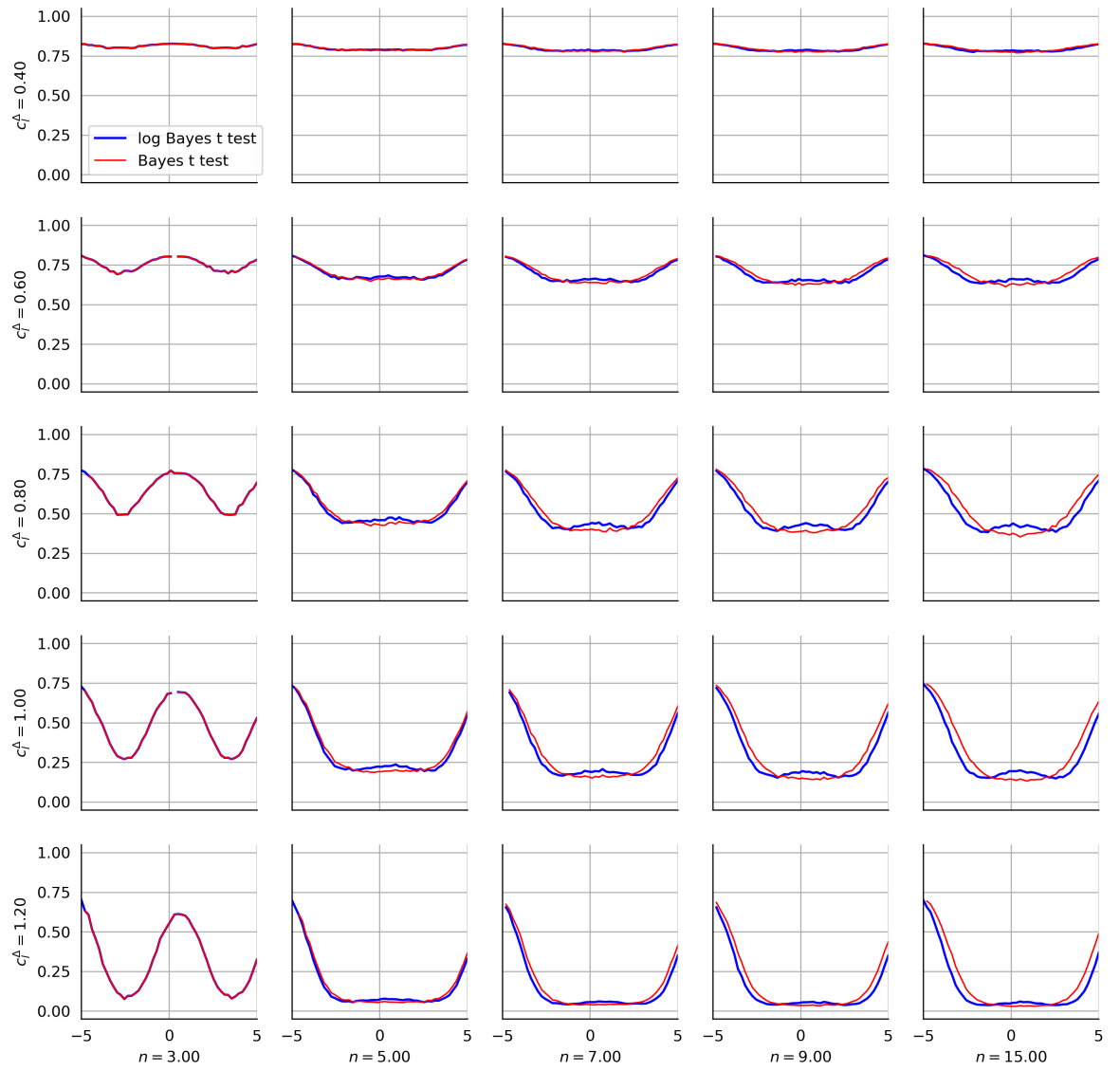
Figure 36. Bayesian t test evaluated with Ordered logistic regression model
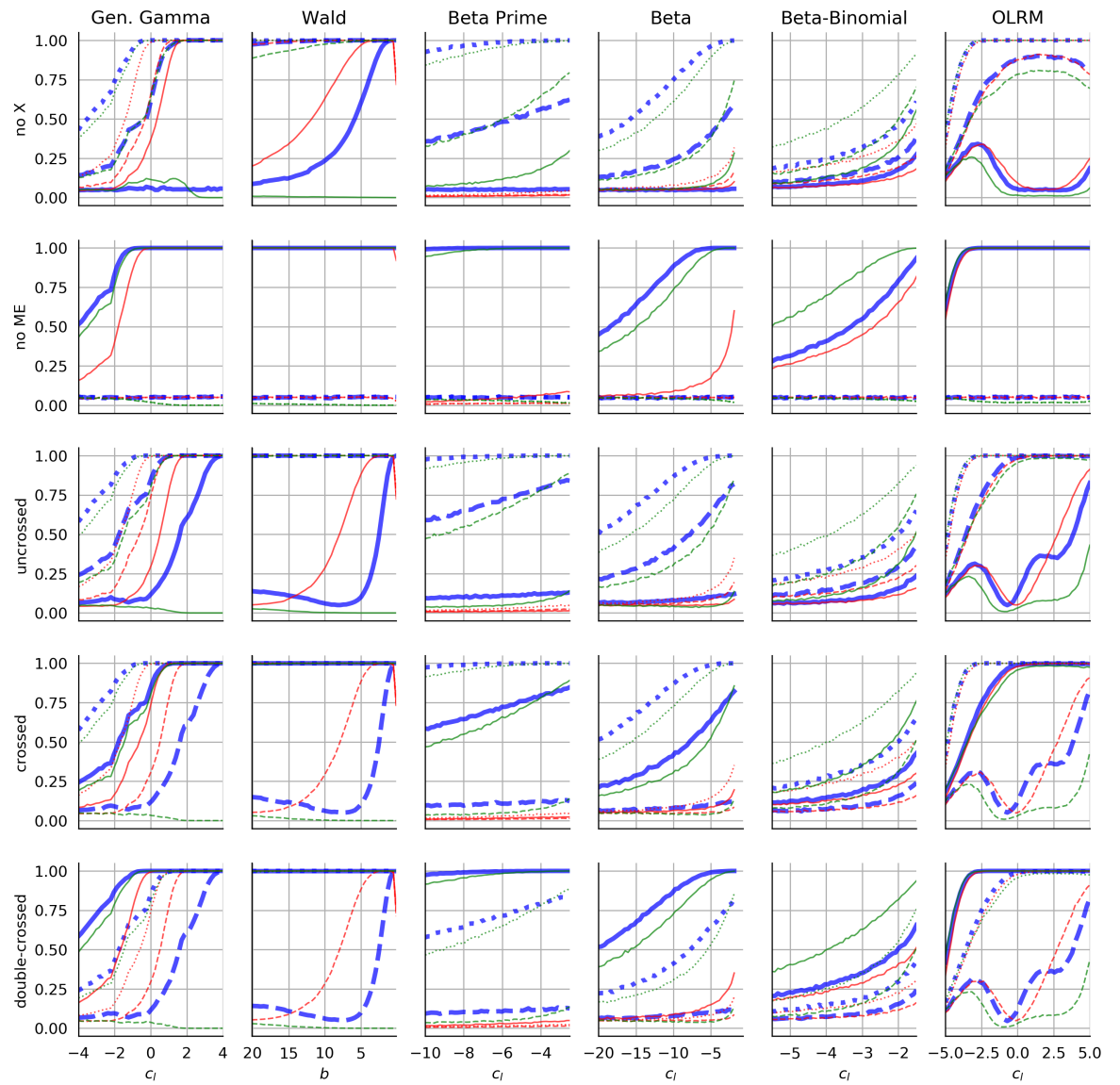
Figure 37. ANOVA with largest c_l^Δ. The precise value for each distribution is presented as the upper bound in fourth column in table 2 in the published article.