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Chemometric and Likelihood Ratio Approaches

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Assessing Evidentiary Value in Fire Debris Analysis by Chemometric and Likelihood Ratio Approaches

Highlights

- Likelihood ratios calculated for ignitable liquid residue (ILR) in fire debris
- Likelihood ratios were calculated from probability of class membership
- Chemometric discrimination methods SVM, LDA, QDA and kNN tested
- Performance of LDA was stable in cross validation and fire debris tests

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