Title: Metabolites profiling reveals for antimicrobial compositional differences and action mechanism in the toothbrushing stick “miswak” *Salvadora persica*

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Highlights

- SPME-GC/MS was adopted for the chemical analysis of *Salvadora persica*.
- A total of 21 volatile and 75 primary metabolites were identified
- PCA and OPLS were used to classify samples.
- Effect of salivation on *S. persica* volatiles profile was attempted