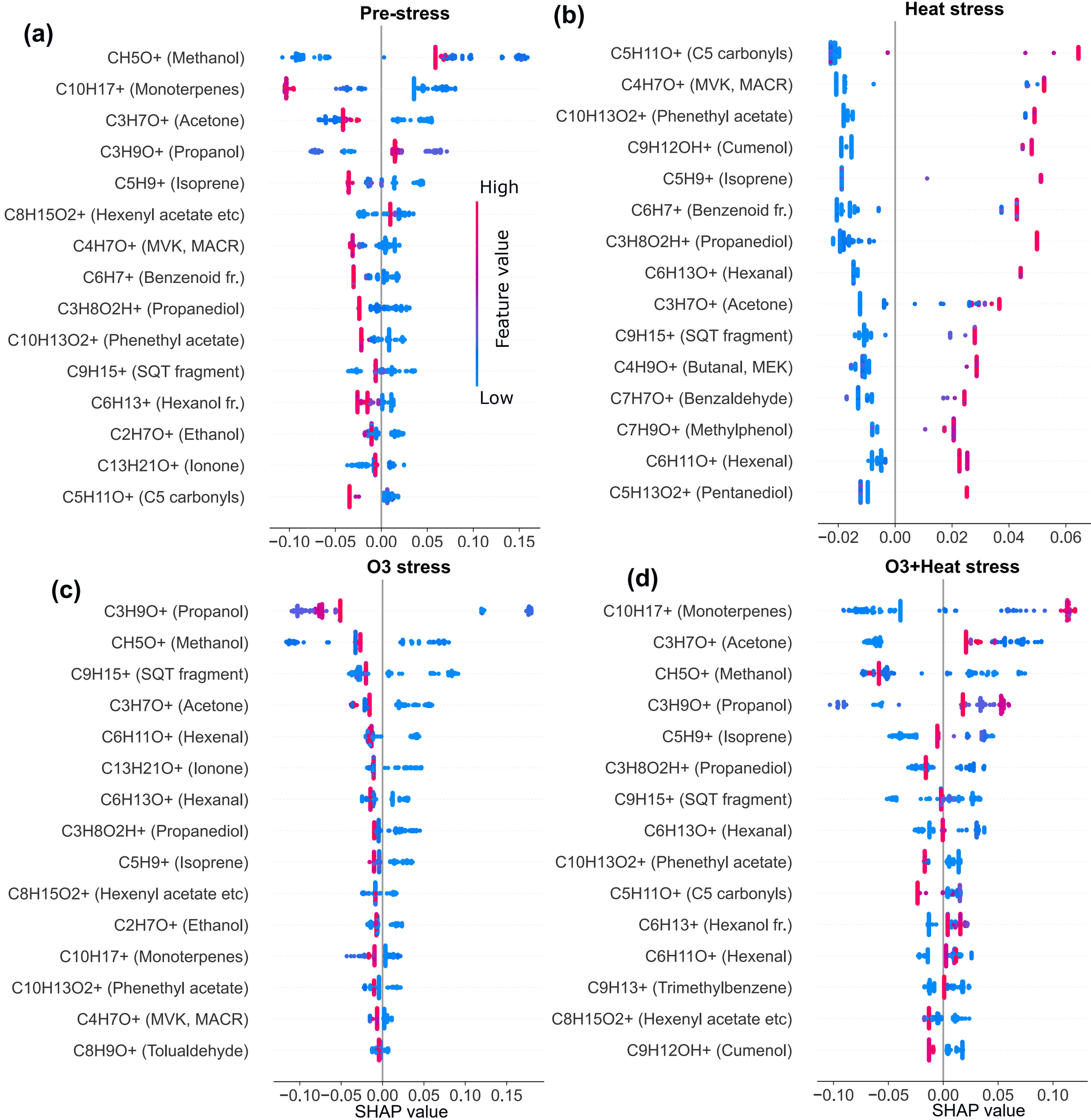
(a)
Pre-stress
CH5O+ (Methanol)
C10H17+ (Monoterpenes)
C3H7O+ (Acetone)
C3H9O+ (Propanol)
C5H9+ (Isoprene)
C8H15O2+ (Hexenyl acetate etc)
C4H7O+ (MVK, MACR)
C6H7+ (Benzenoid fr.)
C3H8O2H+ (Propanediol)
C10H13O2+ (Phenethyl acetate)
C9H15+ (SQT fragment)
C6H13+ (Hexanol fr.)
C2H7O+ (Ethanol)
C13H21O+ (Ionone)
C5H11O+ (C5 carbonyls)
High
Feature value
Low
−0.10 −0.05 0.00 0.05 0.10 0.15
(b)
Heat stress
C5H11O+ (C5 carbonyls)
C4H7O+ (MVK, MACR)
C10H13O2+ (Phenethyl acetate)
C9H12OH+ (Cumenol)
C5H9+ (Isoprene)
C6H7+ (Benzenoid fr.)
C3H8O2H+ (Propanediol)
C6H13O+ (Hexanal)
C3H7O+ (Acetone)
C9H15+ (SQT fragment)
C4H9O+ (Butanal, MEK)
C7H7O+ (Benzaldehyde)
C7H9O+ (Methylphenol)
C6H11O+ (Hexenal)
C5H13O2+ (Pentanediol)
−0.02 0.00 0.02 0.04 0.06
(c)
O3 stress
C3H9O+ (Propanol)
CH5O+ (Methanol)
C9H15+ (SQT fragment)
C3H7O+ (Acetone)
C6H11O+ (Hexenal)
C13H21O+ (Ionone)
C6H13O+ (Hexanal)
C3H8O2H+ (Propanediol)
C5H9+ (Isoprene)
C8H15O2+ (Hexenyl acetate etc)
C2H7O+ (Ethanol)
C10H17+ (Monoterpenes)
C10H13O2+ (Phenethyl acetate)
C4H7O+ (MVK, MACR)
C8H9O+ (Tolualdehyde)
−0.10−0.05 0.00 0.05 0.10 0.15
SHAP value
(d)
O3+Heat stress
C10H17+ (Monoterpenes)
C3H7O+ (Acetone)
CH5O+ (Methanol)
C3H9O+ (Propanol)
C5H9+ (Isoprene)
C3H8O2H+ (Propanediol)
C9H15+ (SQT fragment)
C6H13O+ (Hexanal)
C10H13O2+ (Phenethyl acetate)
C5H11O+ (C5 carbonyls)
C6H13+ (Hexanol fr.)
C6H11O+ (Hexenal)
C9H13+ (Trimethylbenzene)
C8H15O2+ (Hexenyl acetate etc)
C9H12OH+ (Cumenol)
−0.10 −0.05 0.00 0.05 0.10
SHAP value