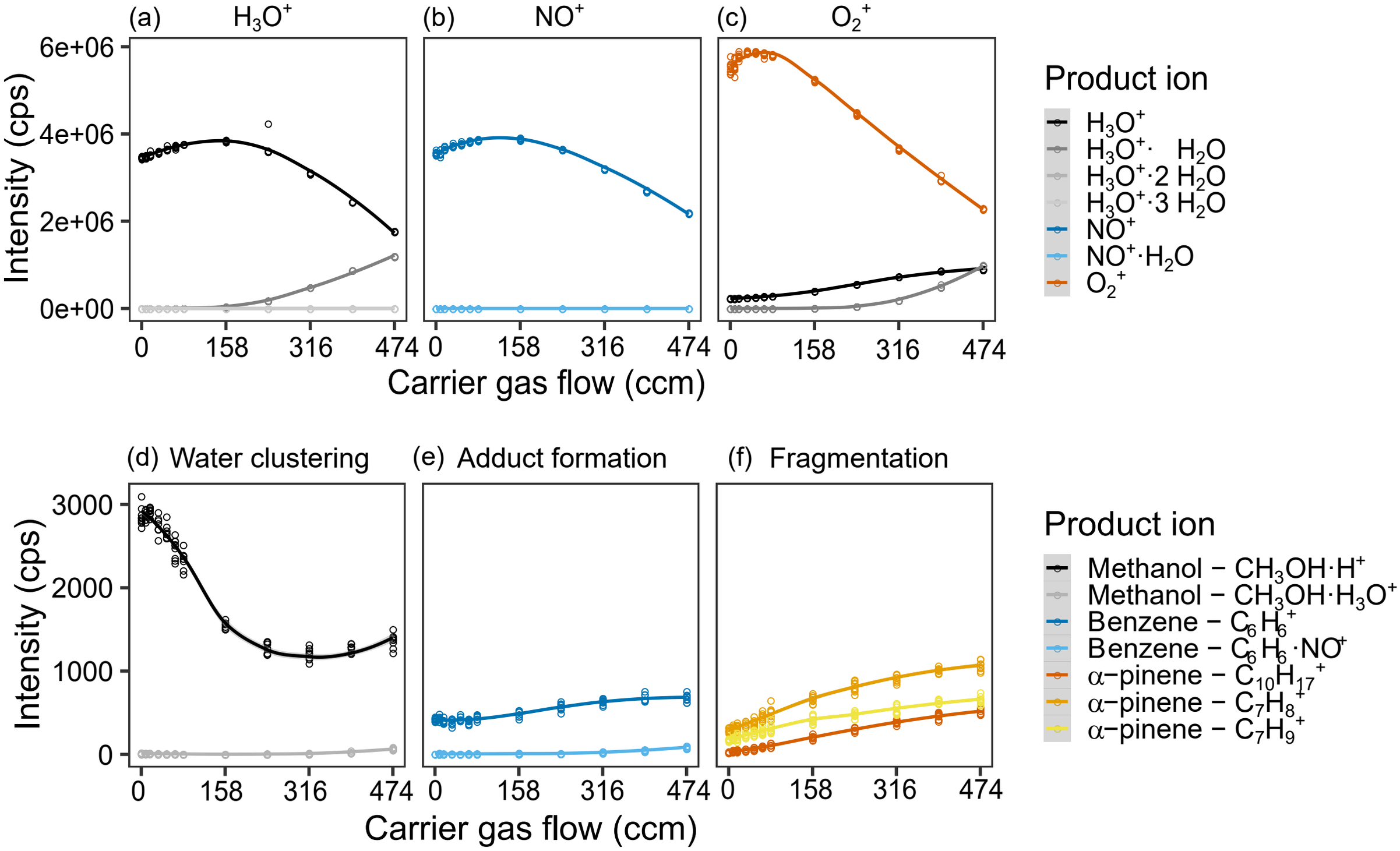
(a) H_3O^+
(b) NO^+
(c) O_2^+
Intensity (cps)
6e+06
4e+06
2e+06
0e+00
0
158
316
474
Carrier gas flow (ccm)
Product ion
H_3O^+
$H_3O^+ \cdot H_2O$
$H_3O^+ \cdot 2\ H_2O$
$H_3O^+ \cdot 3\ H_2O$
NO^+
$NO^+ \cdot H_2O$
O_2^+
(d) Water clustering
(e) Adduct formation
(f) Fragmentation
3000
2000
1000
0
Product ion
Methanol – $CH_3OH \cdot H^+$
Methanol – $CH_3OH \cdot H_3O^+$
Benzene – $C_6H_6^+$
Benzene – $C_6H_6 \cdot NO^+$
α–pinene – $C_{10}H_{17}^+$
α–pinene – $C_7H_8^+$
α–pinene – $C_7H_9^+$