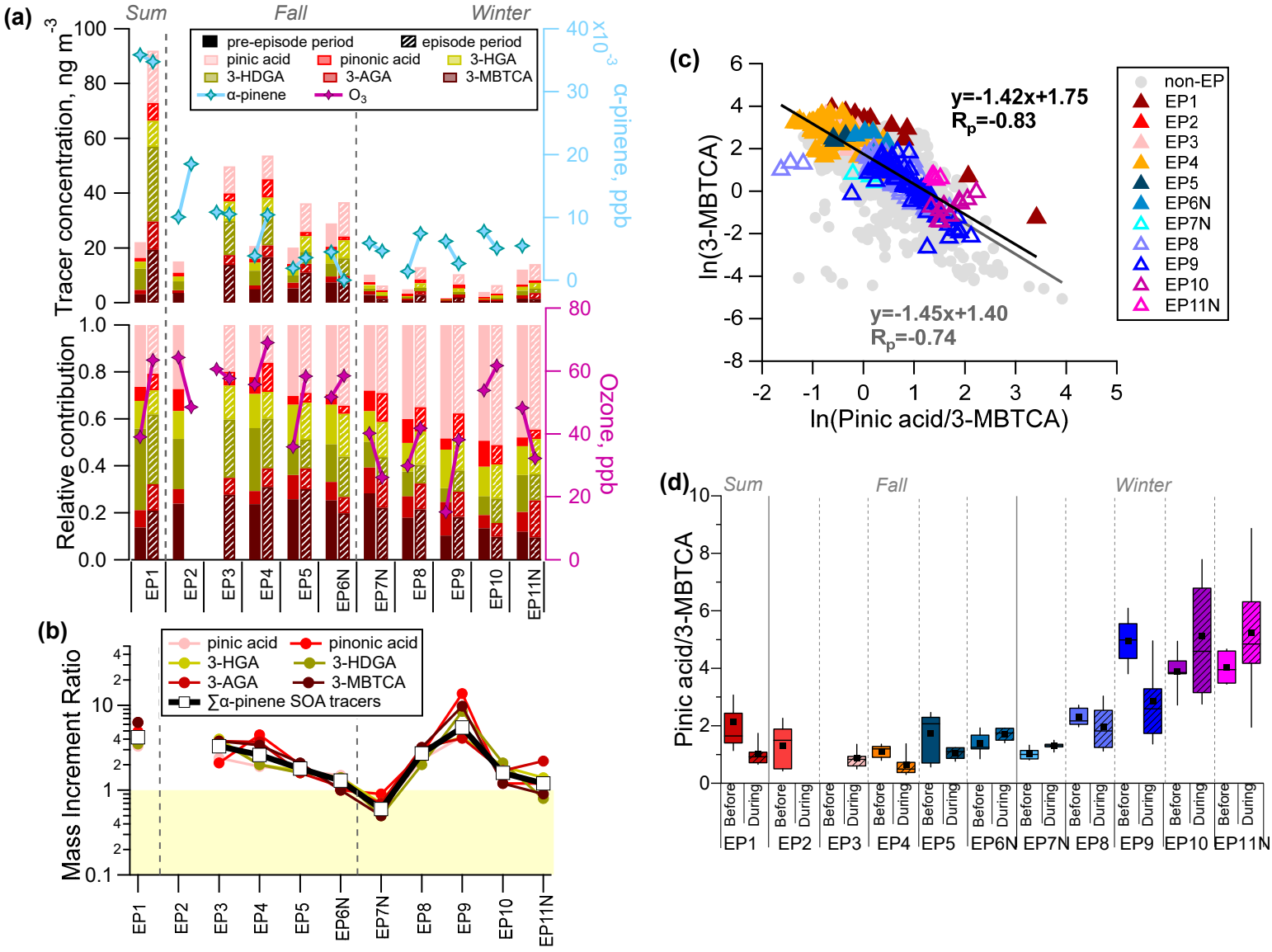
(a)
Sum
Fall
Winter
pre-episode period
episode period
pinic acid
pinonic acid
3-HGA
3-HDGA
3-AGA
3-MBTCA
α-pinene
O3
Tracer concentration, ng m-3
α-pinene, ppb
Relative contribution
Ozone, ppb
EP1
EP2
EP3
EP4
EP5
EP6N
EP7N
EP8
EP9
EP10
EP11N
(b)
pinic acid
pinonic acid
3-HGA
3-HDGA
3-AGA
3-MBTCA
∑α-pinene SOA tracers
Mass Increment Ratio
(c)
y=-1.42x+1.75
Rp=-0.83
y=-1.45x+1.40
Rp=-0.74
non-EP
ln(3-MBTCA)
ln(Pinic acid/3-MBTCA)
(d)
Sum
Fall
Winter
Pinic acid/3-MBTCA
Before
During