

CIMS system property	Value and measure
[OH] limit of detection	^a 5×10^5 molecules cm^{-3}
$k\text{OH}$ limit of detection	^b 0.5 s^{-1}
$k\text{OH}$ upper measurement limit	40 s^{-1}
Typical $[\text{OH}]_0$ and $[\text{HO}_2]_0$ produced in UV zone	10^8 molecules cm^{-3}
$k\text{OH}$ temporal resolution	60–300 s
Typical reaction time $\Delta t = (t_2 - t_1)$	^b $0.1 \text{ s} \pm 5 \%$
Typical OH wall loss rate k_w	^b $10 \text{ s}^{-1} \pm 8 \%$
$k\text{OH}$ measurement accuracy	^b 1 s^{-1} ($k\text{OH} < 30 \text{ s}^{-1}$) ^b 2 s^{-1} ($k\text{OH} 30\text{--}40 \text{ s}^{-1}$)
Known interference	nitric oxide (NO)