

Parameters	Measurement technique	Time resolution	Detection limit <sup>a</sup>	Accuracy
OH	LIF <sup>b</sup>	30 s	$4.0 \times 10^5 \text{ cm}^{-3}$	$\pm 14 \%$
HO <sub>2</sub>	LIF <sup>b,c</sup>	30 s	$1.0 \times 10^7 \text{ cm}^{-3}$	$\pm 17 \%$
RO <sub>2</sub>	LIF <sup>b,c</sup>	30 s	$0.5 \times 10^7 \text{ cm}^{-3}$	$\pm 23 \%$
$k_{\text{OH}}$	LP-LIF <sup>d</sup>	90 s	$0.3 \text{ s}^{-1}$	$\pm 10 \% \pm 0.7 \text{ s}^{-1}$
Photolysis frequencies	Spectroradiometer	20 s	<sup>e</sup>	$\pm 10 \%$
O <sub>3</sub>	UV photometry	60 s	0.5 ppbv	$\pm 5 \%$
NO	Chemiluminescence	60 s	60 pptv	$\pm 20 \%$
NO <sub>2</sub>	Chemiluminescence <sup>f</sup>	60 s	300 pptv	$\pm 20 \%$
HONO	LOPAP <sup>g</sup>	300 s	10 pptv	$\pm 20 \%$
CO, CH <sub>4</sub> , CO <sub>2</sub> , H <sub>2</sub> O	CRDS	60 s	<sup>h</sup>	<sup>i</sup>
SO <sub>2</sub>	Pulsed UV fluorescence	60 s	0.1 ppbv	$\pm 10 \%$
HCHO	Hantzsch fluorimetry	120 s	25 pptv	$\pm 5 \%$
Volatile organic compounds <sup>j</sup>	GC-FID/MS <sup>k</sup>	1 h	(20 ~ 300) pptv	$\pm (15 \sim 20) \%$
Oxygenated organic compounds	PTR-ToF-MS	10 s	(50–100) pptv	$\pm (10 \sim 15) \%$