

Measurement	Instrument	Technique	LOD	Reference
O ₃	Thermo 49i series	UV absorption	0.05 ppbv	
CO	Aerolaser 5002	VUV fluorimetry	1 ppbv	Gerbig et al. (1999)
NO, NO ₂	Air Quality Design Inc.	Chemiluminescence with LED NO ₂ converter	1.8 pptv (NO), 5.5 pptv (NO ₂)	Lee et al. (2009)
HONO	LOPAP	Long-path absorption photometry	3 pptv (4 min)	Heland et al. (2001)
PAN	GC-ECD	Gas chromatography with electron capture detection	5 pptv (90 s)	Whalley et al. (2004)
HCHO	Aerolaser 4021 analyser	Hantzsch reaction	<0.05 ppbv	Salmon et al. (2008)
Actinic flux	Ocean optics QE65000	Spectrometer coupled to 2 π quartz collection dome	–	
j(O ¹ D)	Meteorologie Consult	Filter radiometry	–	Bohn et al. (2016)
C1-C8 hydrocarbons	(DC)-GC-FID	Dual-channel gas chromatography with flame ionisation detection	1–40 pptv	Hopkins et al. (2003)
C6-C13 hydrocarbons	GCxGC-FID	2-dimensional gas chromatography with flame ionisation detection	0.01–0.2 pptv	Lidster et al. (2014)
OH, HO ₂ , RO ₂	FAGE	Laser-induced fluorescence	See text	Whalley et al. (2013)
k _{OH}	LP-LIF	Laser flash photolysis, laser induced fluorescence	2.1 s ⁻¹	Stone et al. (2016)
Meteorological parameters	Davis Vantage Vue	Met station	–	
Boundary layer depth	Halo-Photonics scanning Doppler lidar	Doppler lidar	30 m	Barlow et al. (2015)
Aerosol surface area	TSI Inc, model 3321	Aerodynamic particle sizer spectrometer	0.001 particle cm ⁻³	Peters and Leith (2003)