

Parameter	Phase	Instrument	Note
CO, CO <sub>2</sub> , NO <sub>x</sub> and total hydrocarbon (THC) concentration	Gas	Gas analyzer AVL Combustion Emissions Bench II	Online
Aerosol number size distribution	Particle	DMS500	Online
PM <sub>2.5</sub>	Particle	Balance (AX105DR)	Offline
Organic carbon/elemental carbon concentration	Particle	OC / EC analyzer	Offline
CO concentration	Gas	48 <i>i</i> CO analyzer	Online
NO, NO <sub>2</sub> , and NO <sub>x</sub> concentration	Gas	42 <i>i</i> NO–NO <sub>2</sub> –NO <sub>x</sub> analyzer	Online
O <sub>3</sub> concentration	Gas	49 <i>i</i> O <sub>3</sub> analyzer	Online
VOC concentration	Gas	Proton transfer reaction mass spectrometer (PTR-MS)	Online
Aerosol number (mass) size distribution	Particle	Scanning mobility particle sizer (SMPS, consisting of 3081-DMA and 3775-CPC)	Online
Size resolved non-refractory aerosol	Particle	High-resolution time-of-flight aerosol mass spectrometer (HR-Tof-AMS)	Online