



Figure S1. Variation of OH mixing ratio and the rate of OH+NO<sub>2</sub> from Jan 3 and Jan 7.

Table S1. Average concentrations (ppbv) of NMHCs species during the daytime (7:00-17:00 LT) and nighttime (17:00-7:00 LT of the next day) from Jan 3 to Jan 7.

Species	Daytime	Nighttime	Species	Daytime	Nighttime
Ethane	2.257	2.310	Isoprene	0.092	0.026
Propane	7.032	6.239	Cis-2-Pentene	0.006	0.005
i-Butane	2.561	2.324	1-Hexene	0.032	0.023
n-Butane	4.879	4.588	1,3-Butadiene	0.041	0.067
i-Pentane	2.105	3.435	Benzene	0.767	0.832
n-Pentane	1.666	4.128	Toluene	5.447	6.076
2-Methylpentane	0.980	0.868	Ethylbenzene	1.313	1.812
n-Hexane	0.762	0.706	m-xylene	1.143	1.936
n-Heptane	0.307	0.273	p-xylene	1.143	1.936
n-Octane	0.085	0.068	o-xylene	0.988	1.644
Ethene	2.487	2.684	1,3,5-trimethylbenzene	0.025	0.029
Propene	0.352	0.393	1,2,4-trimethylbenzene	0.022	0.045
Ethyne	2.162	2.054	1,2,3-trimethylbenzene	0.029	0.029
trans-2-Butene	0.021	0.021	i-propbenzene	0.027	0.034
1-Butene	0.063	0.072	propbenzene	0.038	0.034
cis-2-Butene	0.024	0.027	m-ethyltoluene	0.076	0.068
1-Pentene	0.011	0.011	p-ethyltoluene	0.049	0.042
trans-2-Pentene	0.006	0.005	o-ethyltoluene	0.041	0.037