

	Spring	Early summer	Late summer	Autumn
Temperature (ambient)	0.447	0.176	0.440	0.402
Ozone (ambient)	0.350	0.152	0.292	<b>0.513</b>
Relative humidity (ambient)	-0.293	-0.193	-0.283	-0.335
Water (ambient)	0.211	0.007	0.228	0.113
NO (ambient)	0.091	0.010	0.032	0.137
NO <sub>2</sub> (ambient)	-0.007	0.164	0.031	0.229
Global radiation	0.353	0.169	0.389	0.142
Temperature (cuvette)	<b>0.517</b>	<b>0.519</b>	0.494	0.409
Ozone (cuvette)	0.337	0.186	0.177	0.265
Relative humidity (cuvette)	-0.327	-0.388	-0.305	-0.340
Methanol	0.201	0.406	0.309	0.325
Acetaldehyde	0.265	<b>0.588</b>	<b>0.533</b>	0.215
Acetone	0.327	<b>0.693</b>	<b>0.561</b>	0.312
Isoprene	0.268	<b>0.651</b>	<b>0.557</b>	0.315
Benzene	0.259	<b>0.680</b>	0.131	0.187
Ethanol	0.274	<b>0.541</b>	0.438	0.198
Linalool	0.250	0.182	0.060	0.207
Pinonaldehyde	0.125	0.061	0.051	0.205
Total nopinone	0.274	<b>0.541</b>	0.438	0.198
Total monoterpenes	0.492	<b>0.534</b>	0.448	0.190
Total sesquiterpenes	0.358	0.363	0.398	0.450
TOHRE (calculated)	<b>0.842</b>	<b>0.590</b>	0.493	0.251
TOHRE (model)	<b>0.569</b>	<b>0.575</b>	<b>0.575</b>	0.398

**Supplement 1** Pearson correlation coefficients calculated for measured TOHRE and various parameters. TOHRE was compared to ambient measurements, temperature, ozone and relative humidity as detected inside the cuvette enclosure, the VOC emission rates monitored by PTR-MS and the calculated and modeled TOHRE.