Investigation of the simplified measurement technique of the secondary aerosols formed from gaseous emissions of vehicle exhaust

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TOYOTA Environmental Action

Steadily introduce low-emission vehicles that contribute to improving the urban environment in each country and region.
Contribute to atmospheric environment improvement through collaboration with research organizations in each country.



Results 1. Effect of Humidity

<u>2. Effect of UV Wavelength</u> <u>**2-1. Generation of Secondary Aerosols**</u>

The secondary aerosols by the irradiation of UV185nm+254nm

There is the possibility that the secondary aerosols



Secondary aerosols can be evaluated swiftly with UV185nm+254nm.
 The chemical composition of the secondary aerosols may be different from those in atmosphere.

We will investigate the method that the gaseous emission is not irradiated by the short wavelength UV in future.