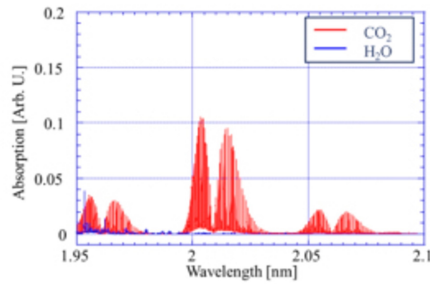
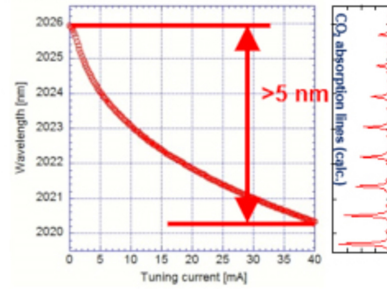


Features of the laser

Absorption spectra of CO_2 can be observed efficiently at $2\ \mu\text{m}$ wavelength.

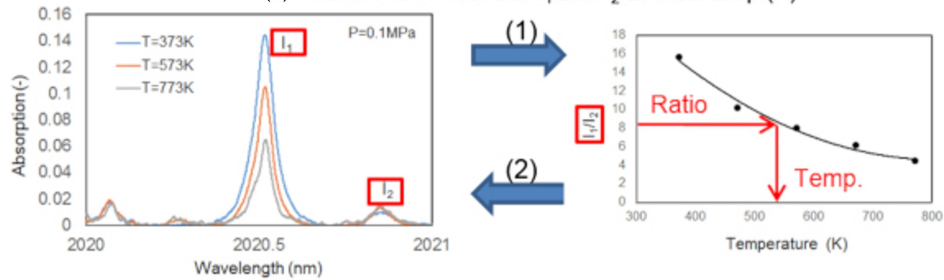


5 nm continuous sweep enables multiple absorption lines of CO_2 to be observed.



Temperature measurement

(1) Measure ratio between I_1 and I_2 at fixed temp.(K)



(2) Calculate temperature from the ratio curve (I_1/I_2).

Combustion analysis (joint research with Tokushima University)

A: Inject light into engine-model laterally.

B: Measure absorption spectra from three directions.

C: Visualize temperature distribution with database.

