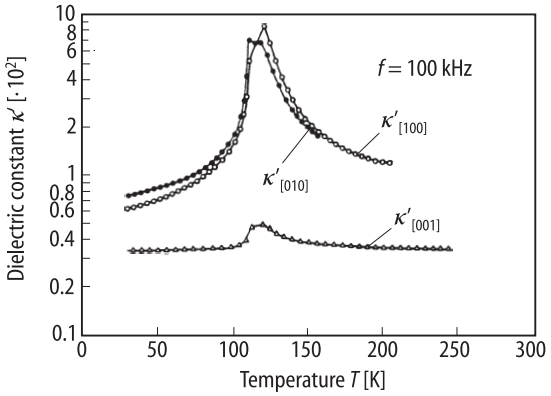

Fig. 22A-3-001. $TlGaSe_2$. $\kappa'_{[100]}$, $\kappa'_{[010]}$, $\kappa'_{[001]}$ vs. T [88Hoc].

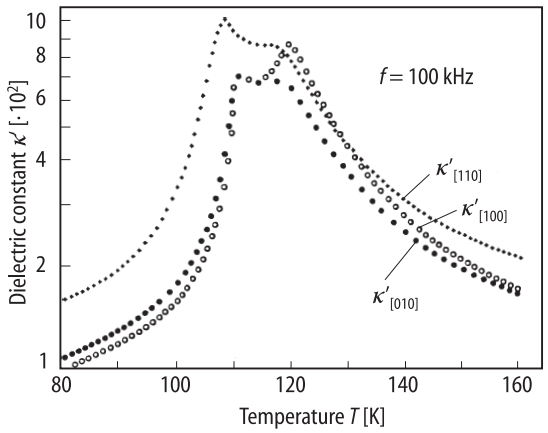

Fig. 22A-3-002. $TlGaSe_2$. $\kappa'_{[100]}$, $\kappa'_{[010]}$, $\kappa'_{[110]}$ vs. T [88Hoc].

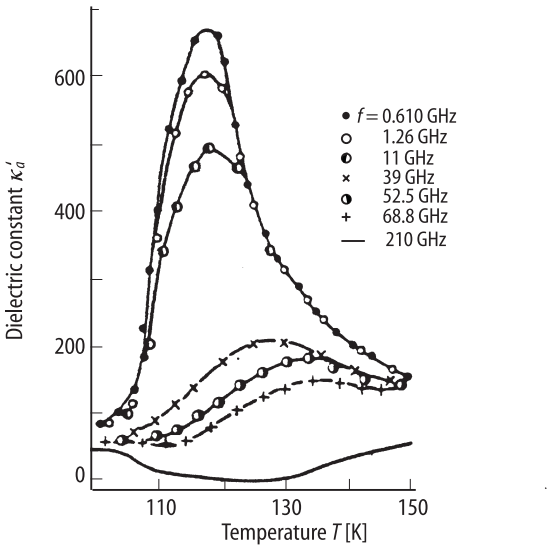

Fig. 22A-3-003. $TlGaSe_2$. κ'_a vs. T [87Ban]. Parameter: f.

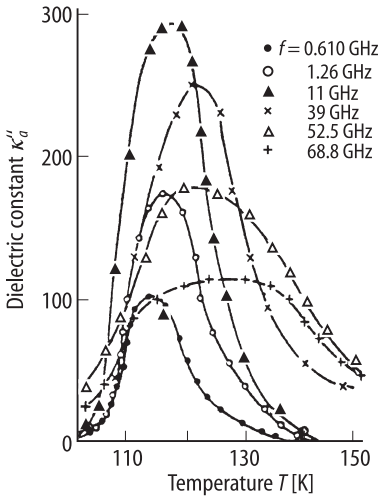

Fig. 22A-3-004. $TlGaSe_2$. κ_a'' vs. T [87Ban]. Parameter: f.

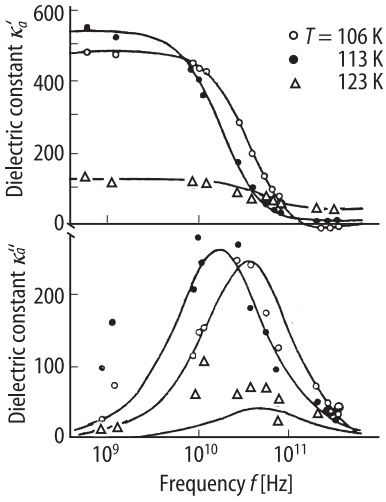

Fig. 22A-3-005. $TlGaSe_2$. κ_a', κ_a'' vs. f [87Ban]. Parameter: T.

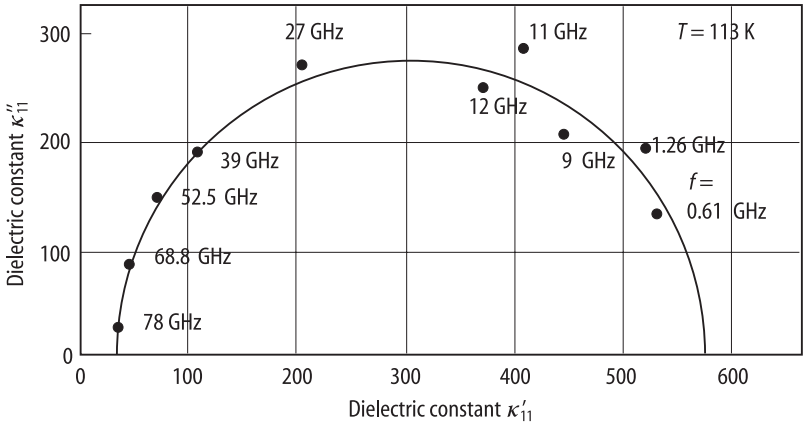

Fig. 22A-3-006. $TlGaSe_2$. Cole-Cole diagram of complex dielectric constant at 113 K [87Ban].

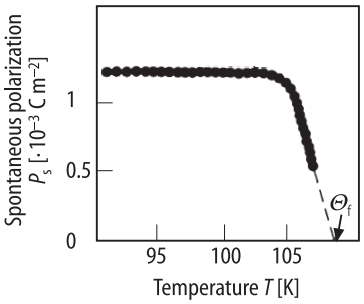

Fig. 22A-3-007. $TlGaSe_2$. P_s vs. T [91Sar].

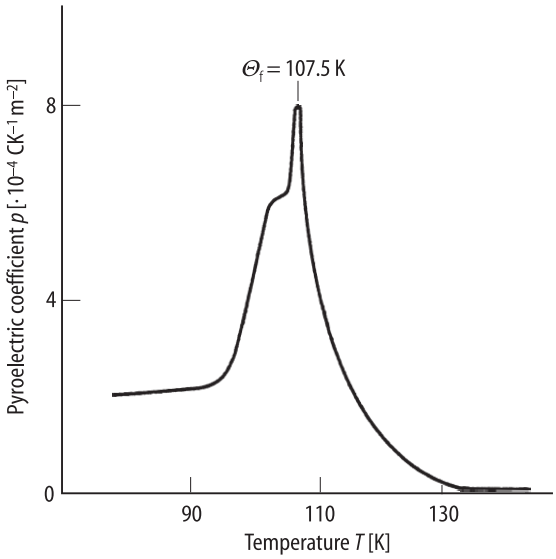

Fig. 22A-3-008. $TlGaSe_2$. p vs. T [91Sar]. p: pyroelectric coefficient.

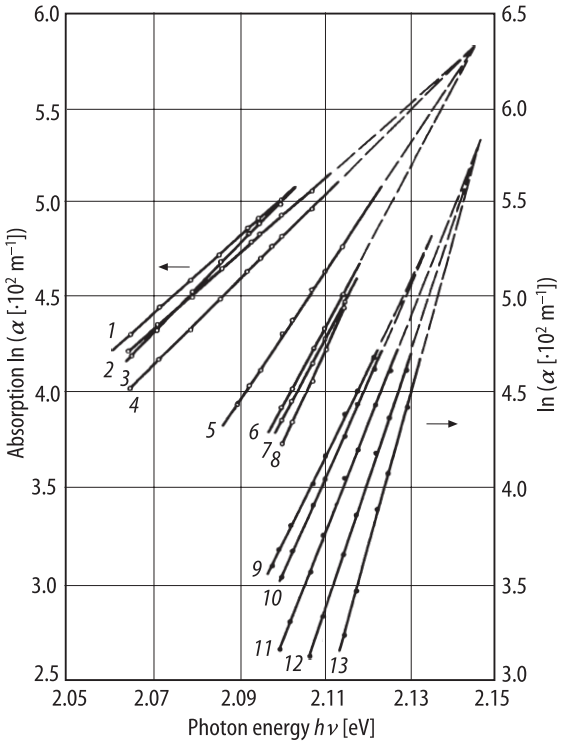

Fig. 22A-3-009. $TlGaSe_2$. lnα vs. $h\nu$ [86All]. α: absorption coefficient in units of 10^2 m^{-1}. $E \perp \sigma$ (symmetry plane). Parameter: *T*. Curve *1*: 258 K, *2*: 294 K, *3*: 240.5 K, *4*: 186 K, *5*: 151 K, *6*: 123.5 K, *7*: 118 K, *8*: 113 K, *9*: 106 K, *10*: 103.5 K, *11*: 94.5 K, *12*: 78 K, *13*: 59 K.

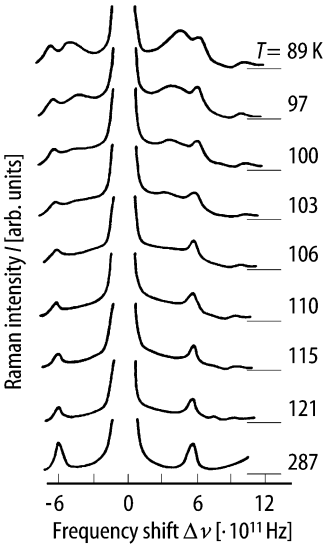

Fig. 22A-3-010. $TlGaSe_2$. I vs. $\Delta\nu$ [88Kul]. I: Raman scattering intensity of the $Y(XX)Z$ geometry. Parameter: *T*.

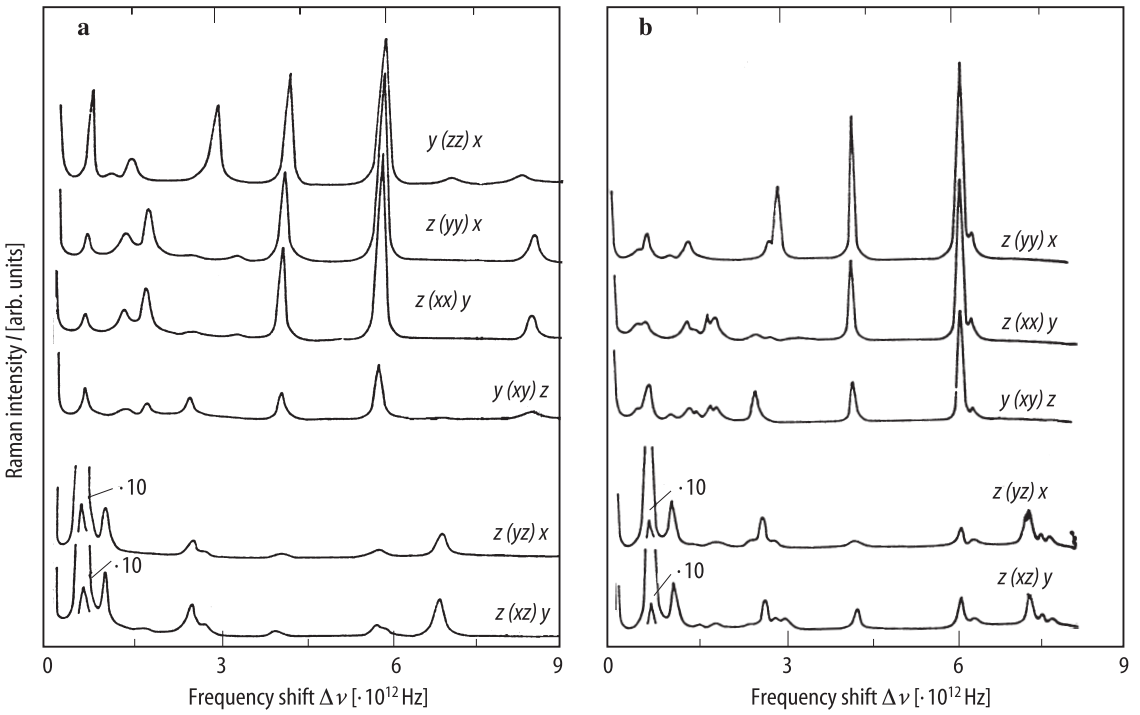

Fig. 22A-3-011. $TlGaSe_2$. I vs. $\Delta\nu$ [89Dur1]. I: Raman scattering intensity at (**a**) 287 K and (**b**) 90 K. Parameter: scattering geometry.

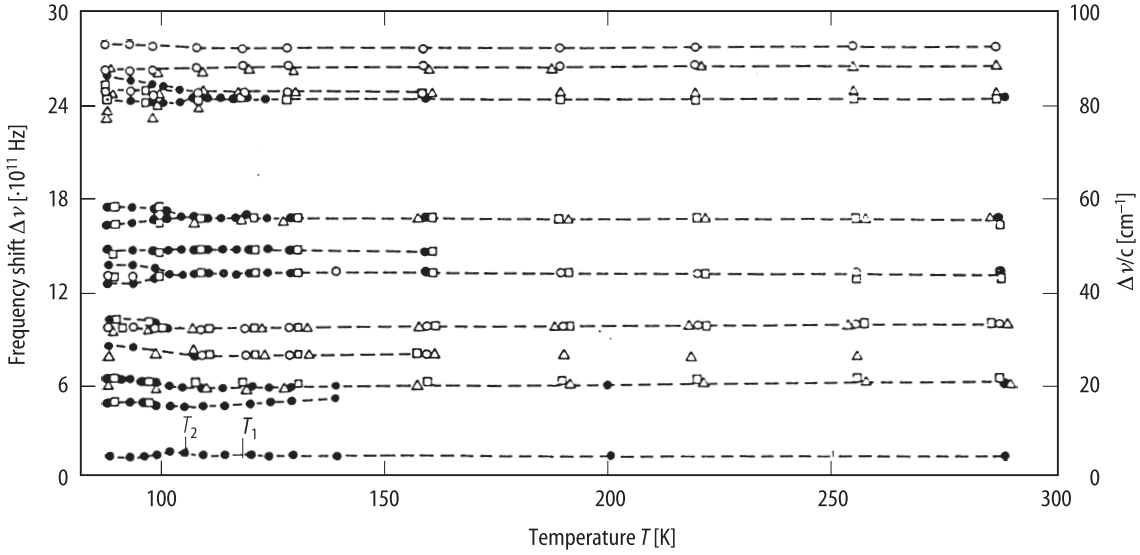

Fig. 22A-3-012. $TlGaSe_2$. $\Delta\nu$ vs. T [89Dur1]. $\Delta\nu$: Raman scattering frequency shift of $Y(XX)Z$ (full circle), $Y(ZZ)X$ (open circle), $Y(XY)Z$ (square) and $Z(XZ)Y$ (triangle) geometries. T_1 = 120 K, the unit cell quadruples in c-direction. $T_2 = (107 \pm 2)$ K, the soft mode frequency becomes zero.

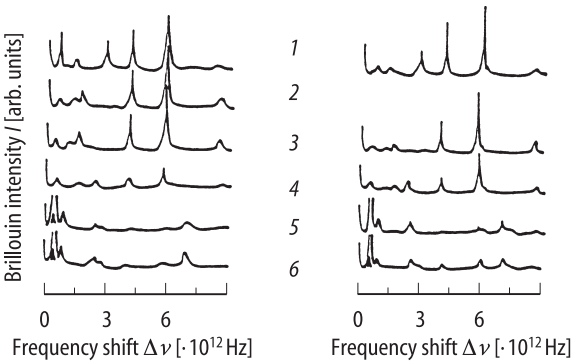

Fig. 22A-3-013. $TlGaSe_2$. I vs. $\Delta\nu$ [89Dur2]. I: Brillouin scattering intensity of the LA mode.

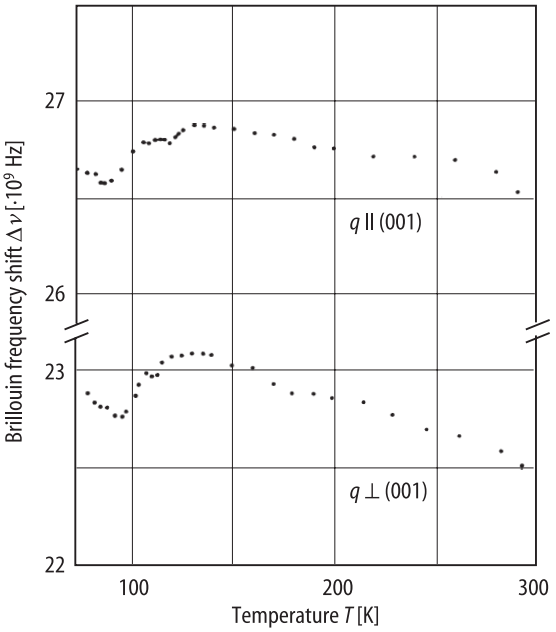

Fig. 22A-3-014. $TlGaSe_2$. $\Delta\nu$ vs. T [88Lai]. $\Delta\nu$: Brillouin scattering frequency shift. Parameter: directions of $\boldsymbol{q}$.