

Pseudo pIRIR data set based on quartz OSL

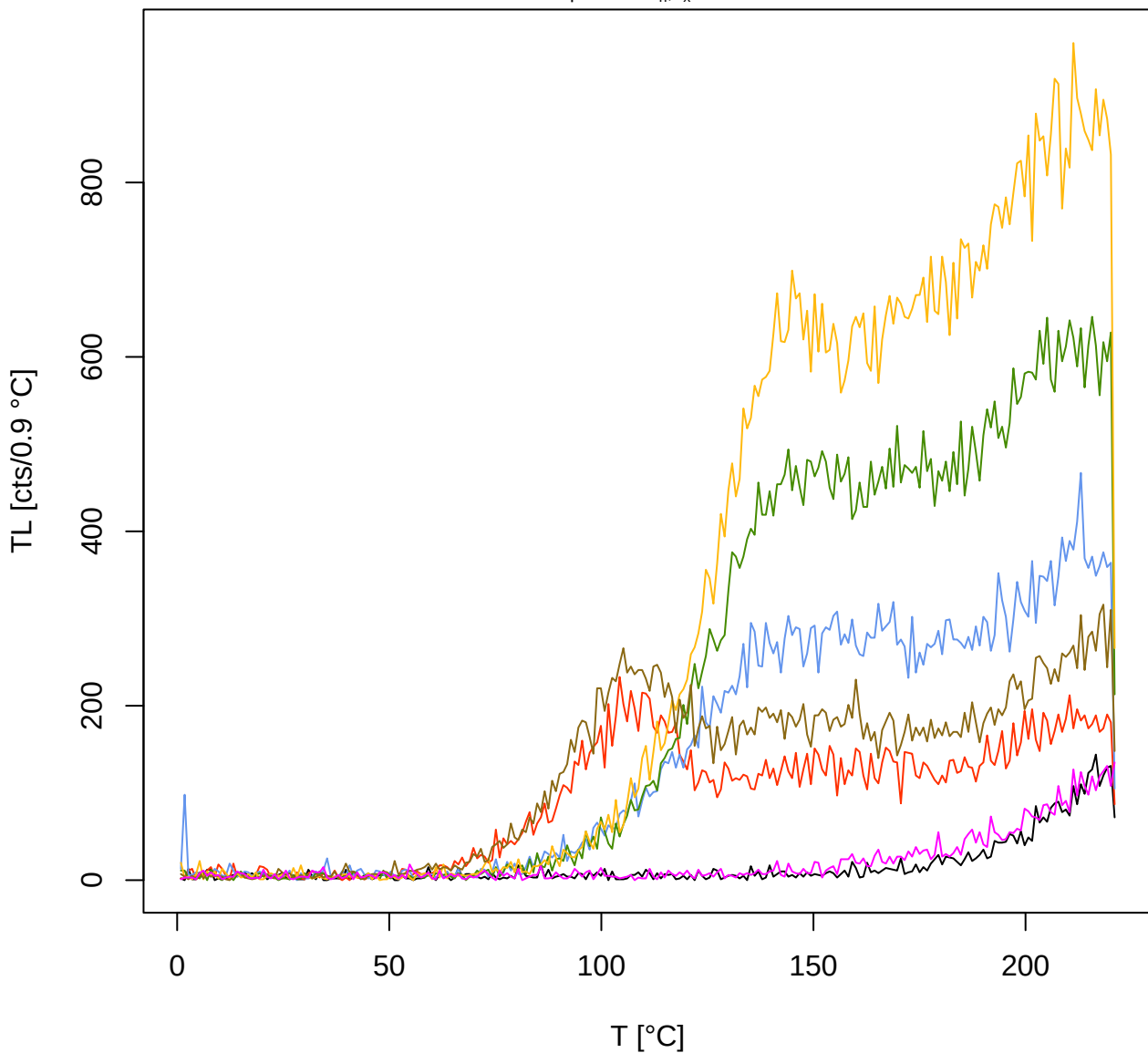
TL

pseudoIRSL1

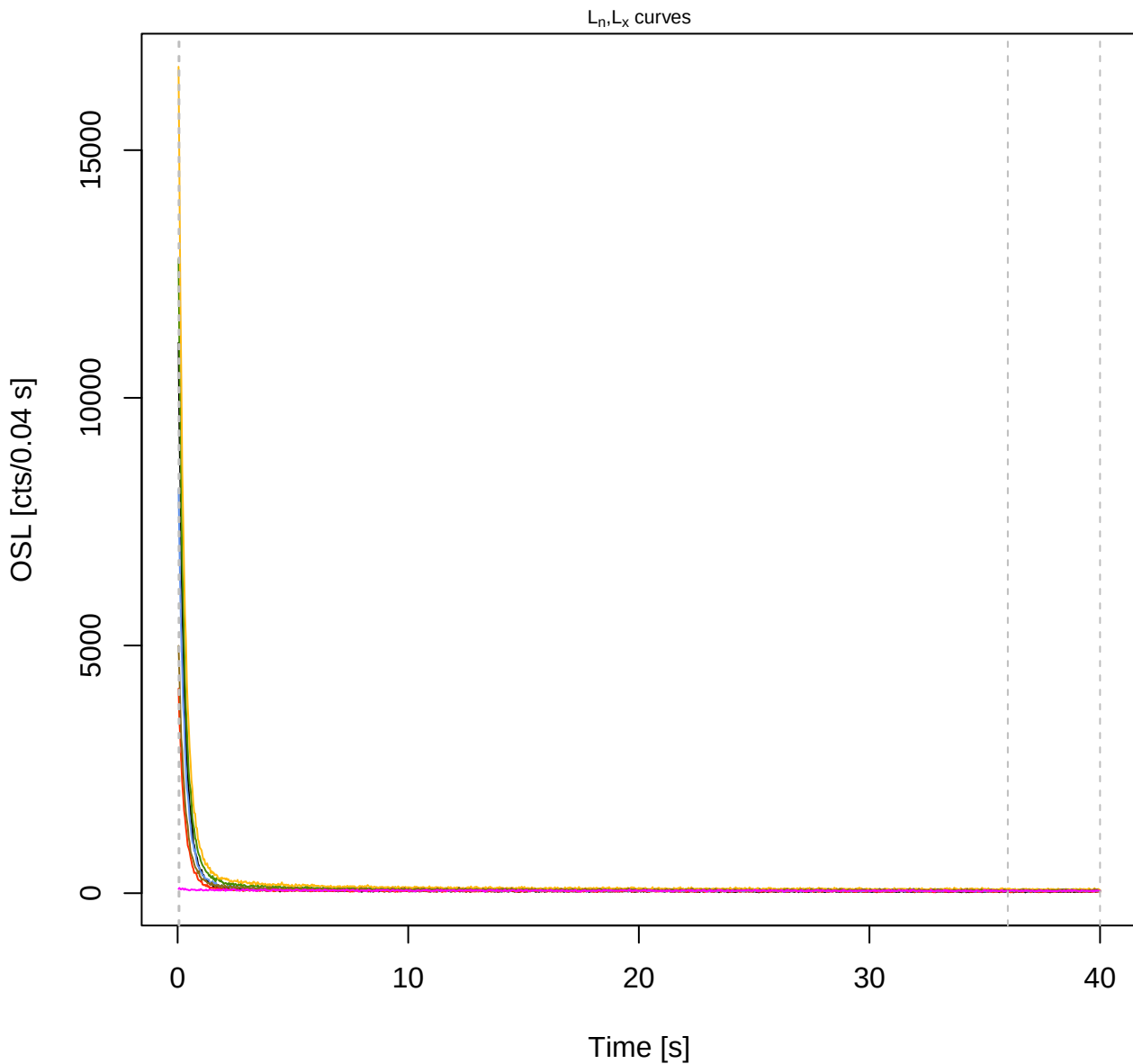
pseudoIRSL2

Pseudo pIRIR data set based on quartz OSL

TL previous L_n, L_x curves

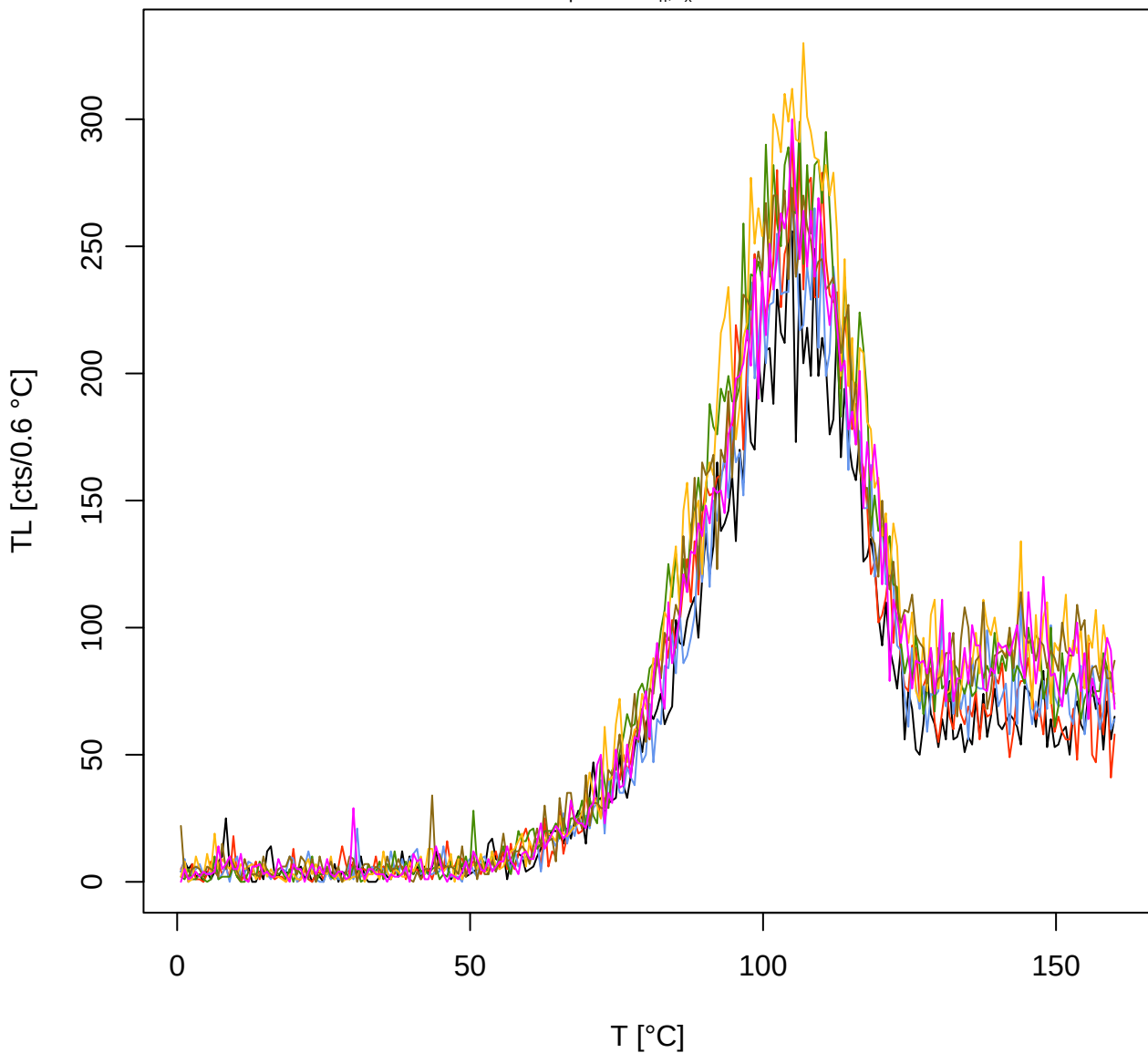


Pseudo pIRIR data set based on quartz OSL

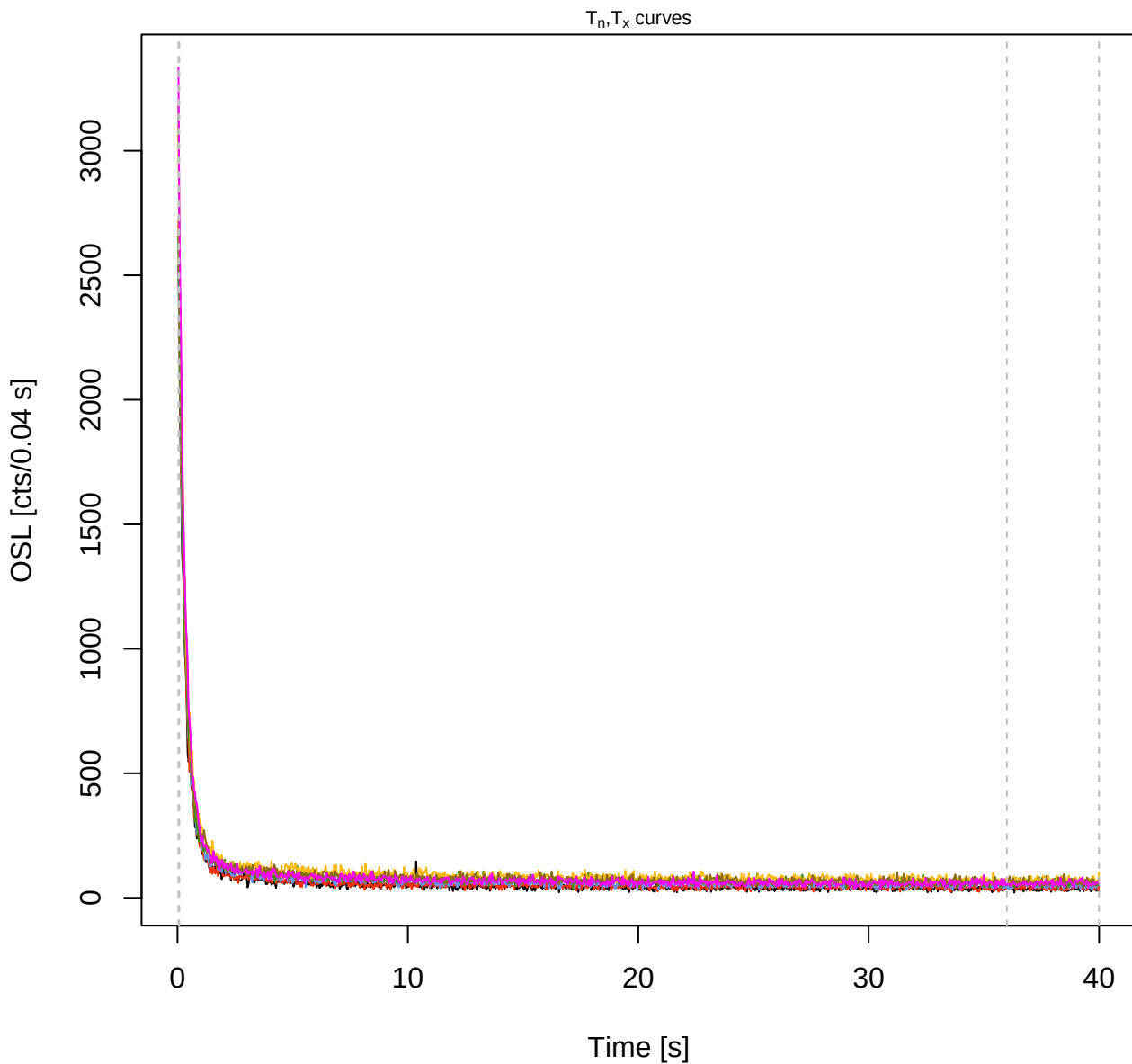


Pseudo pIRIR data set based on quartz OSL

TL previous T_n, T_x curves

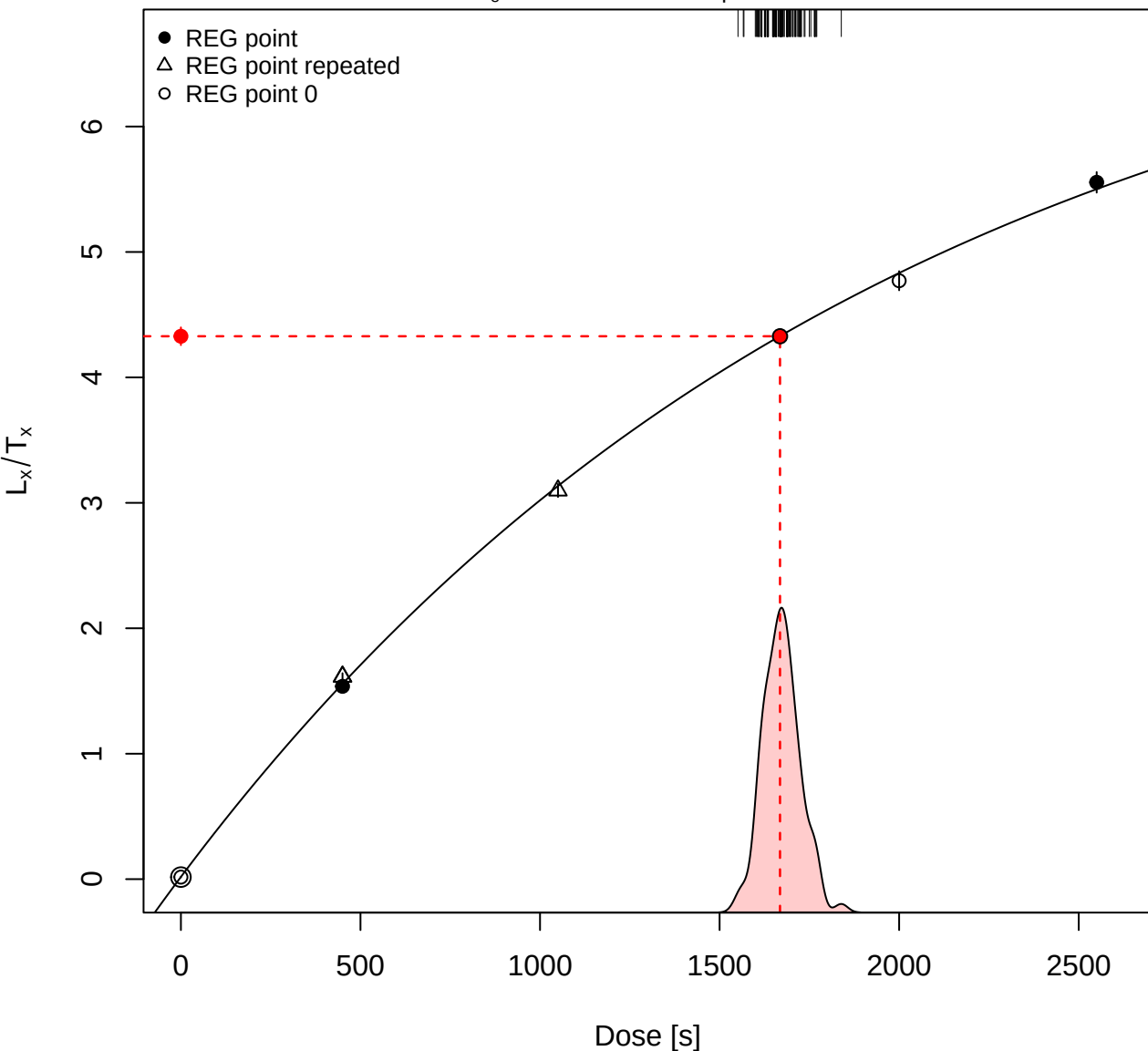


Pseudo pIRIR data set based on quartz OSL



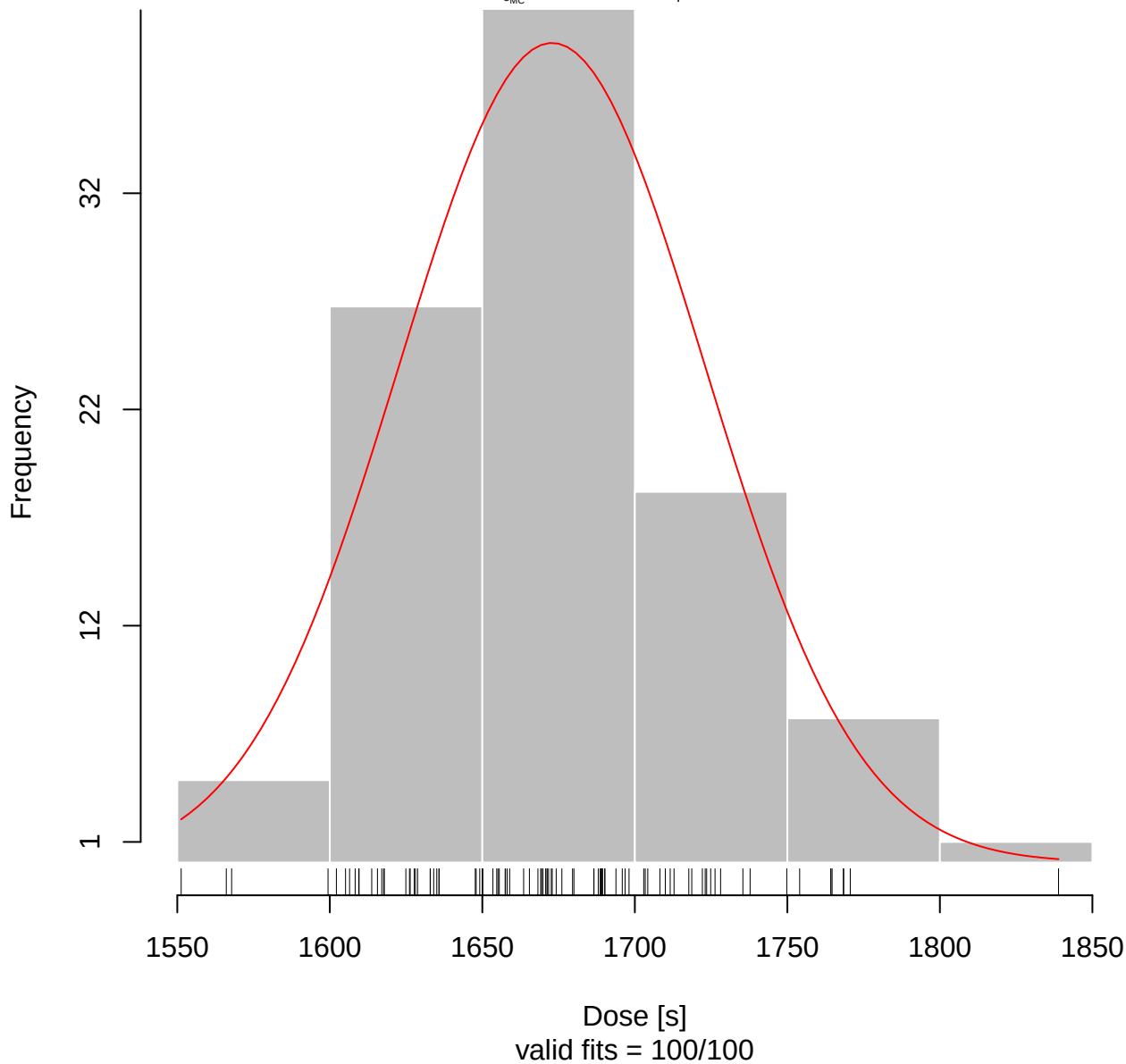
Pseudo pIRIR data set based on quartz OSL

$D_e = 1668.25 \pm 5e+01$ | fit: EXP

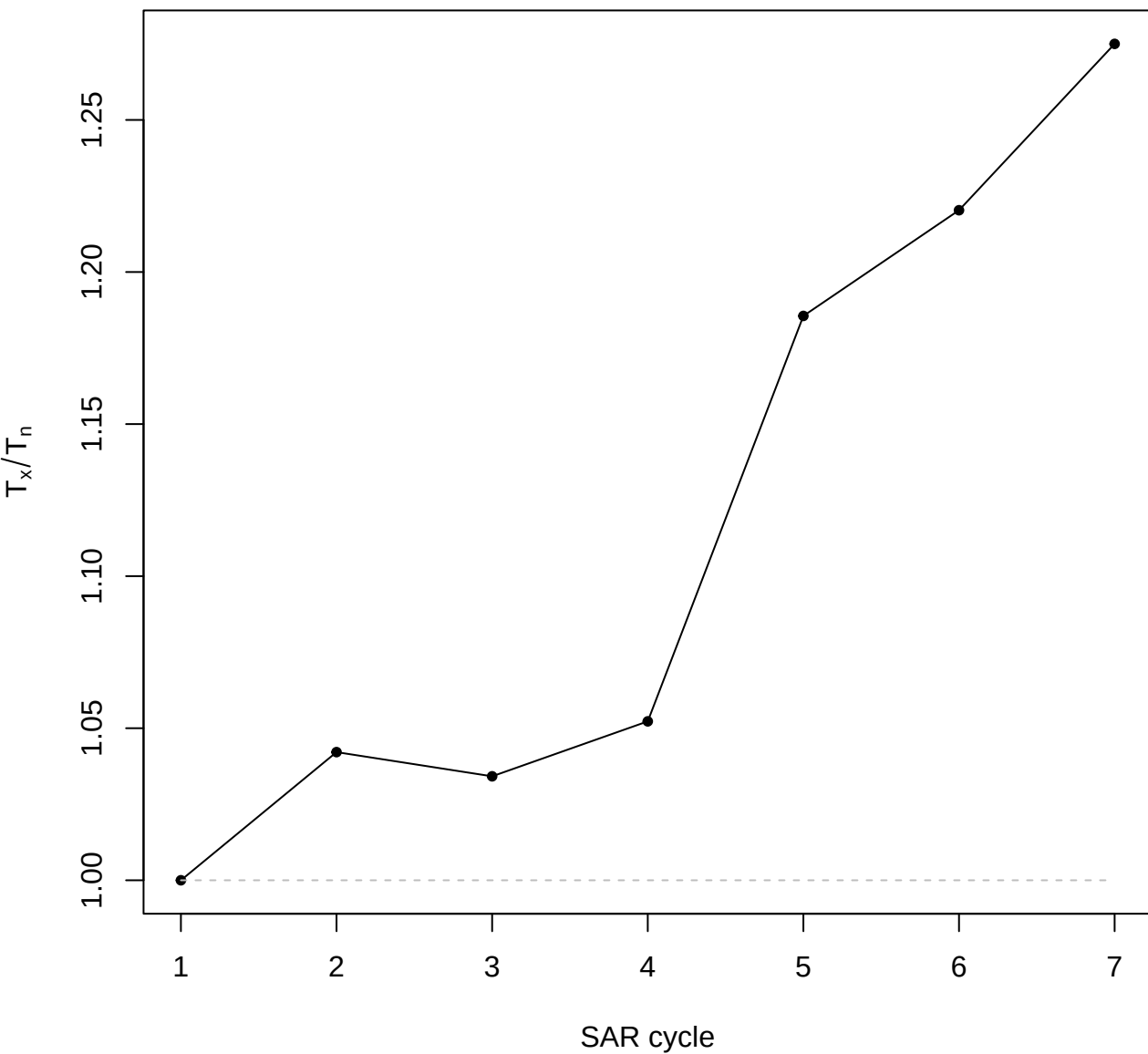


MC runs

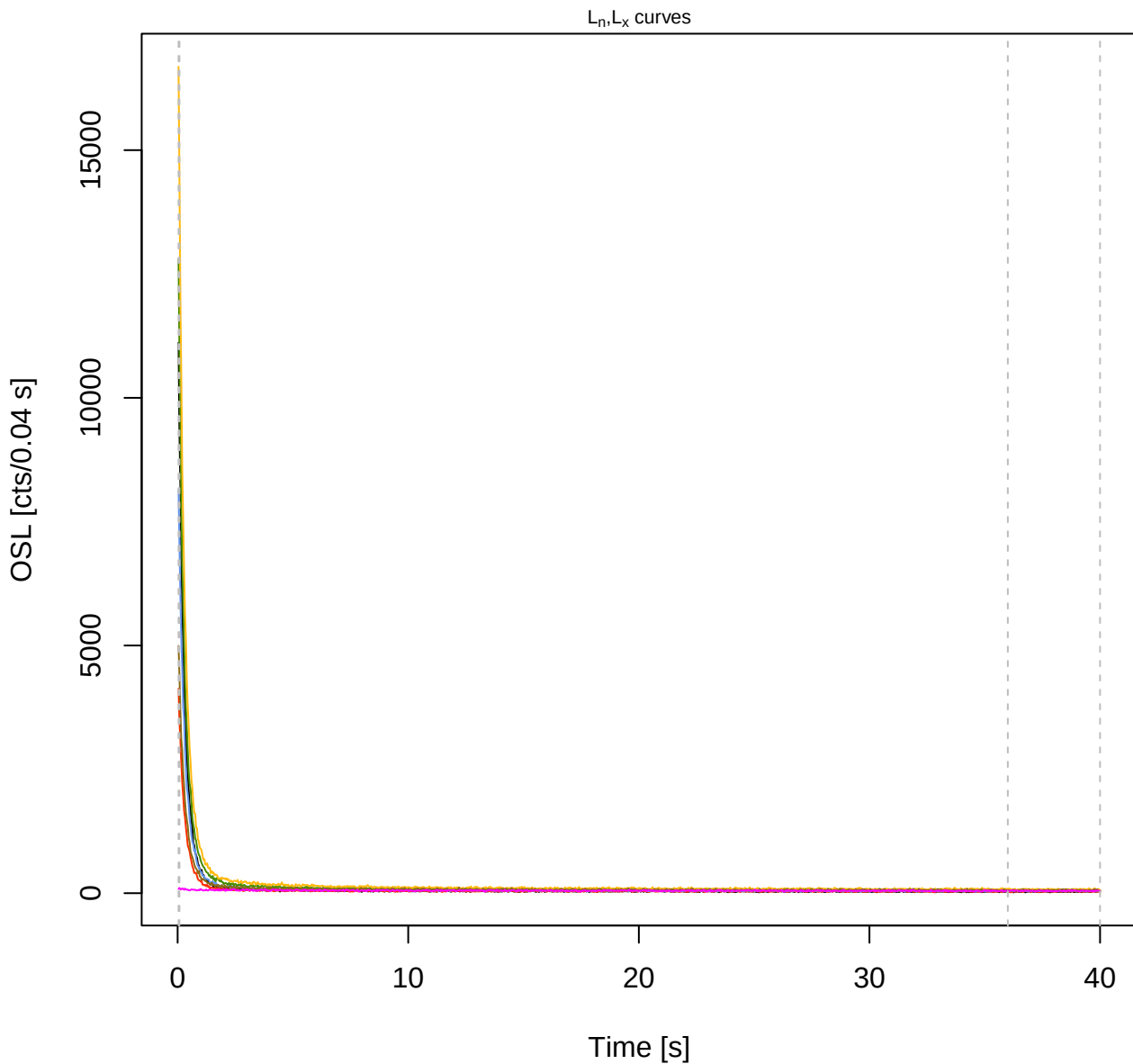
$D_{\text{eMC}} = 1672.85 \pm 5e+01$ | diff. = 0.3 %



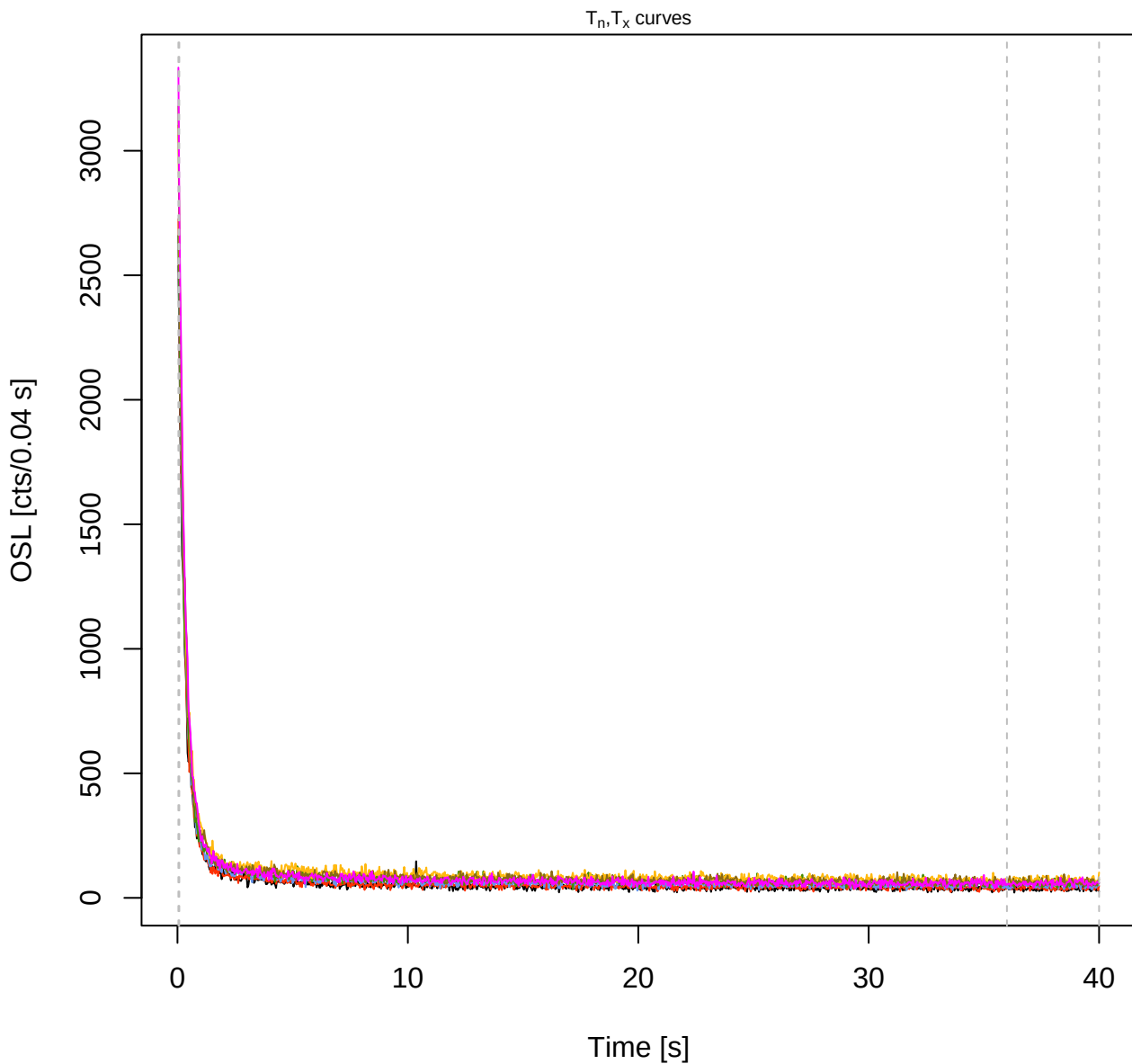
Test-dose response

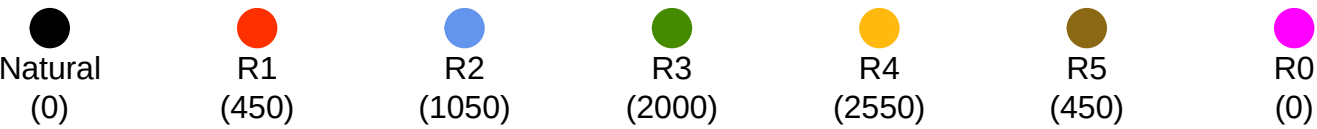


Pseudo pIRIR data set based on quartz OSL



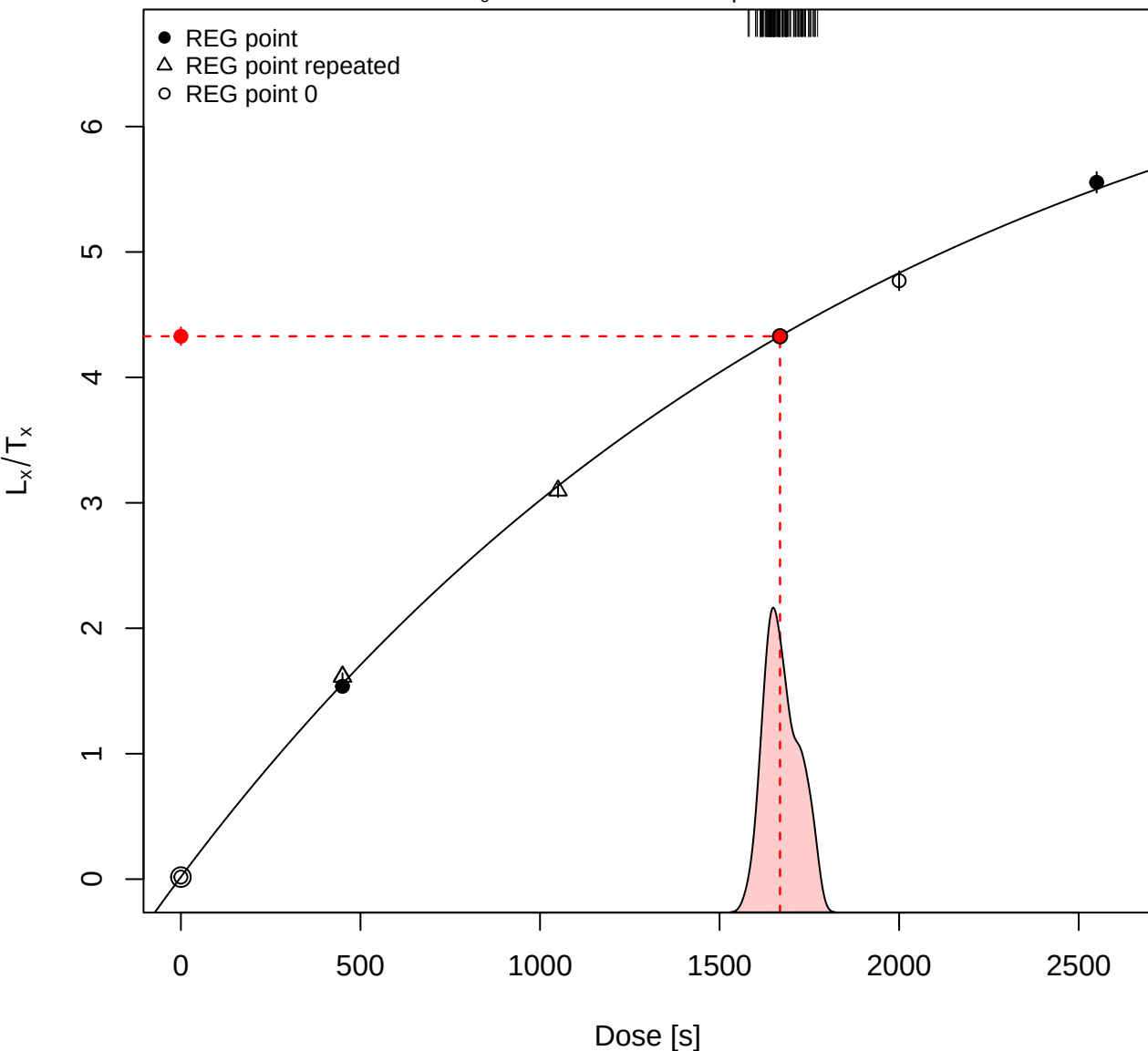
Pseudo pIRIR data set based on quartz OSL





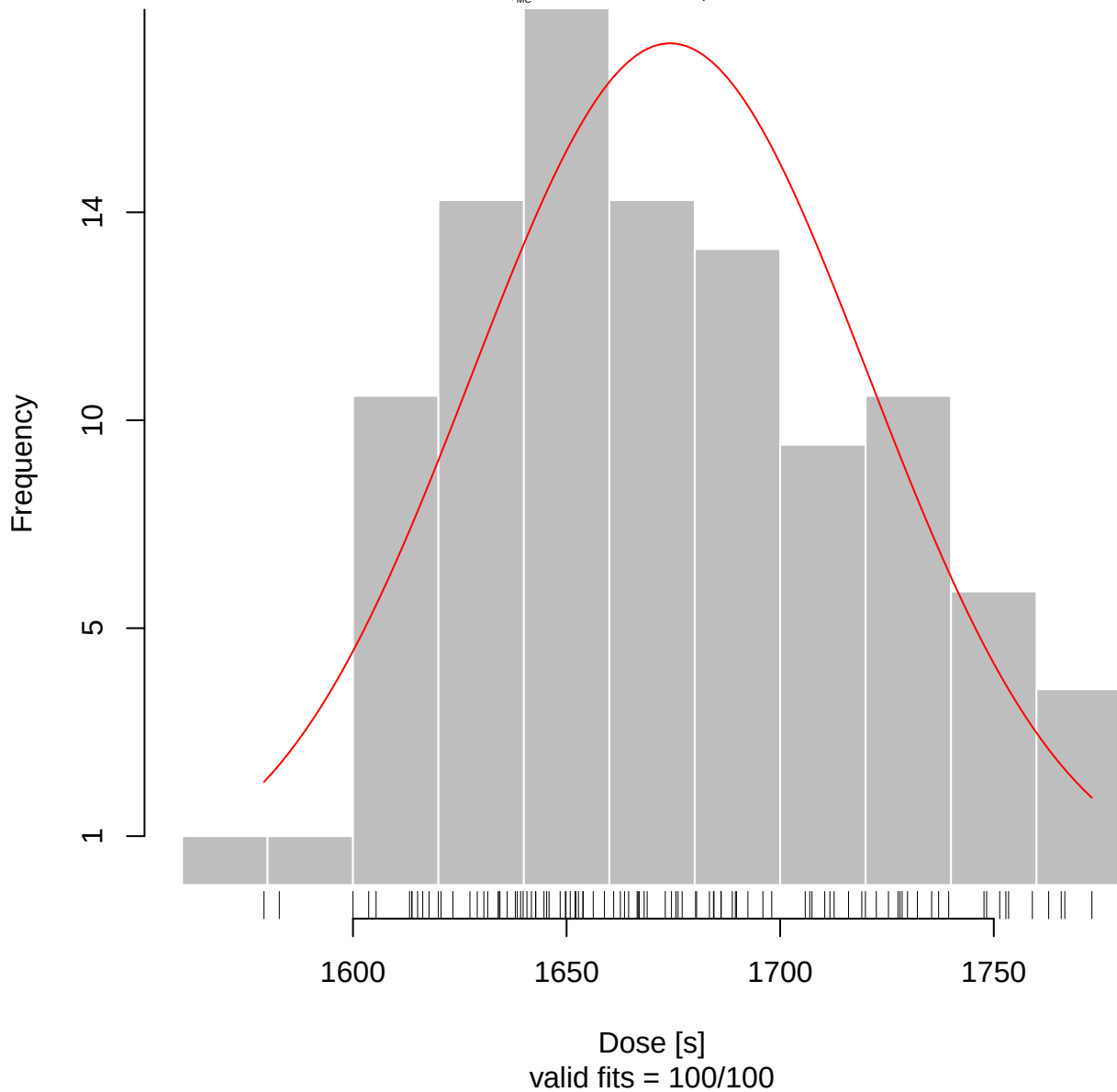
Pseudo pIRIR data set based on quartz OSL

$D_e = 1668.25 \pm 4.6e+01$ | fit: EXP

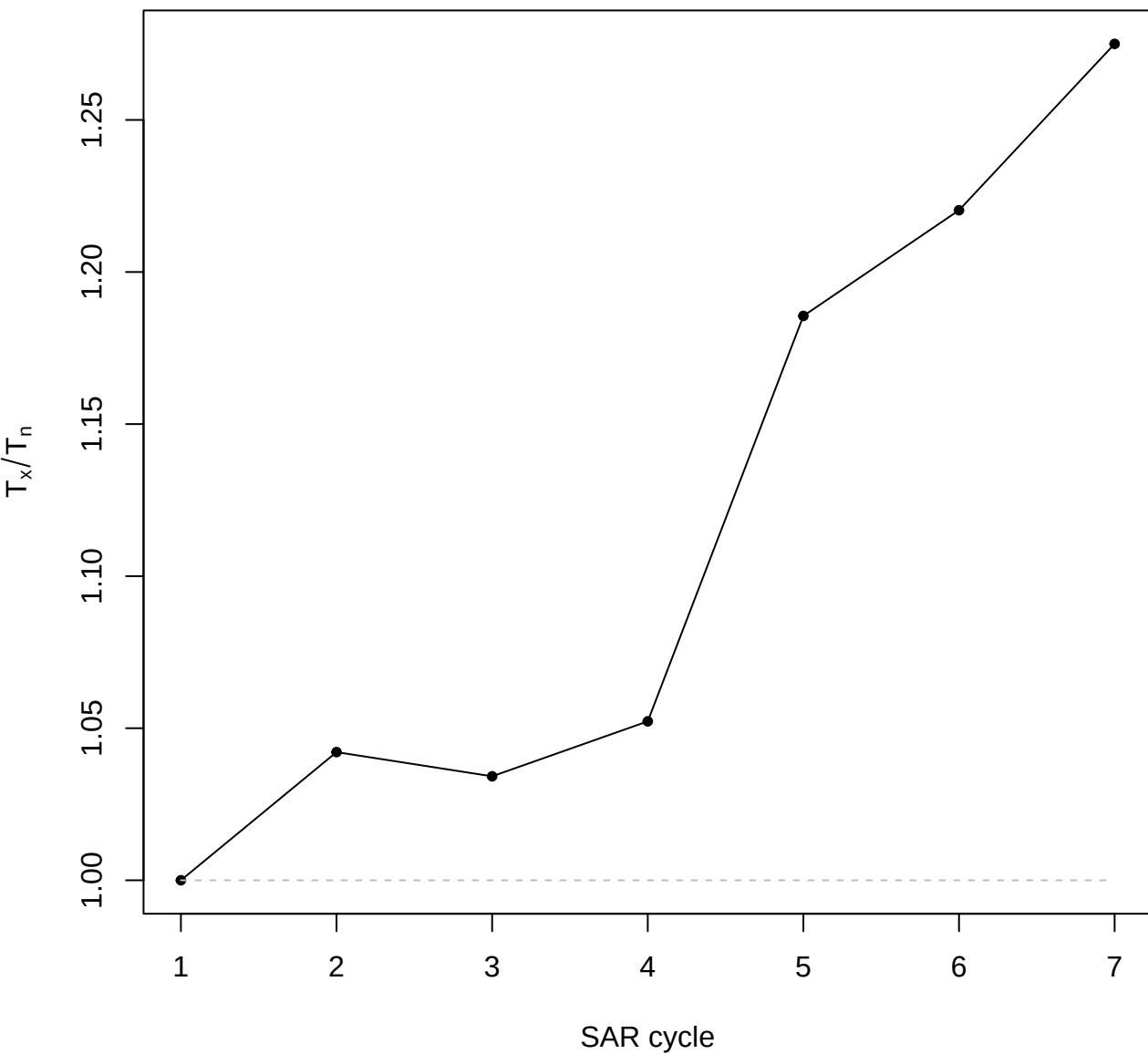


MC runs

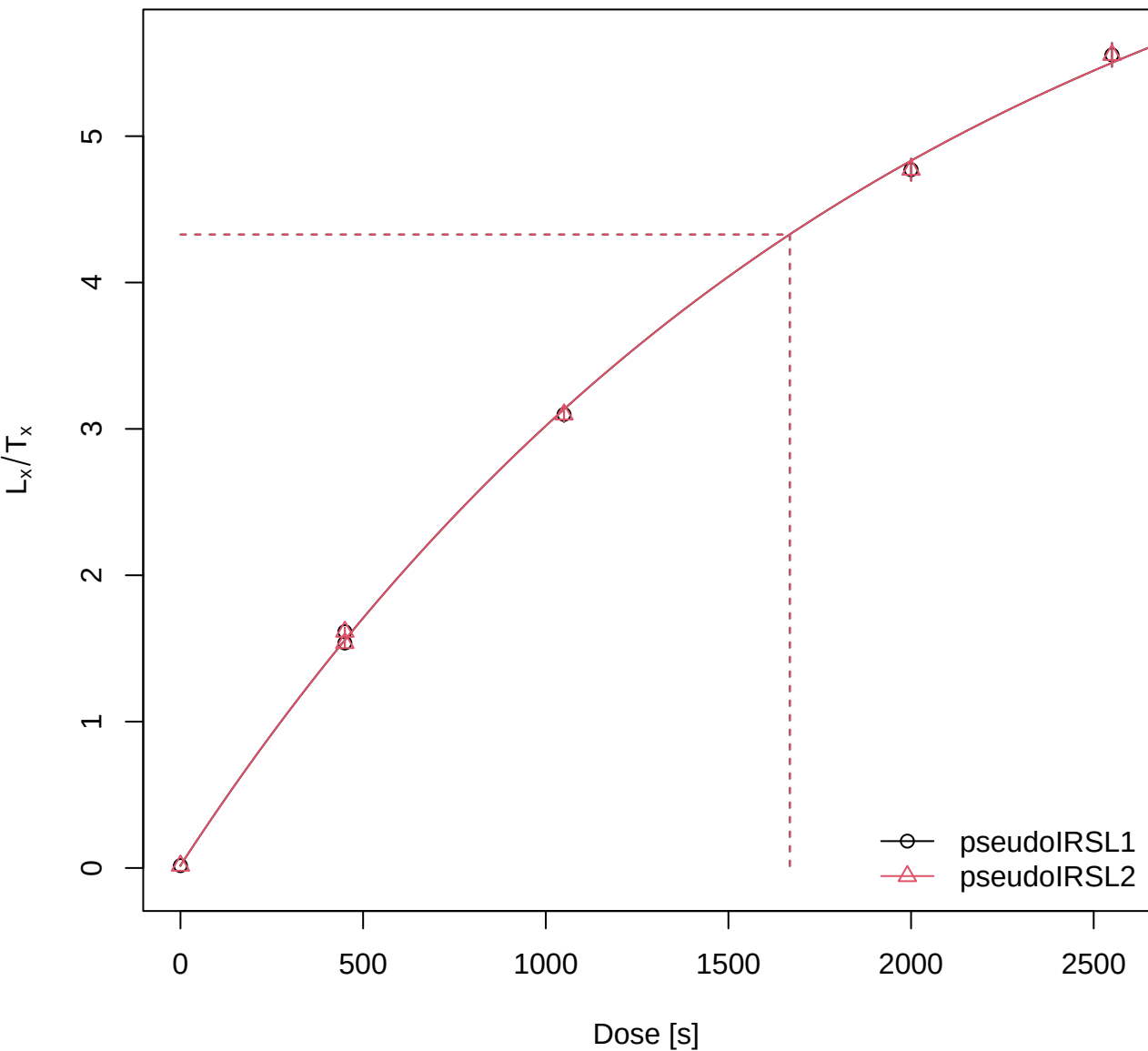
$D_{\text{eMC}} = 1674.23 \pm 4.6\text{e}+01$ | diff. = 0.4 %



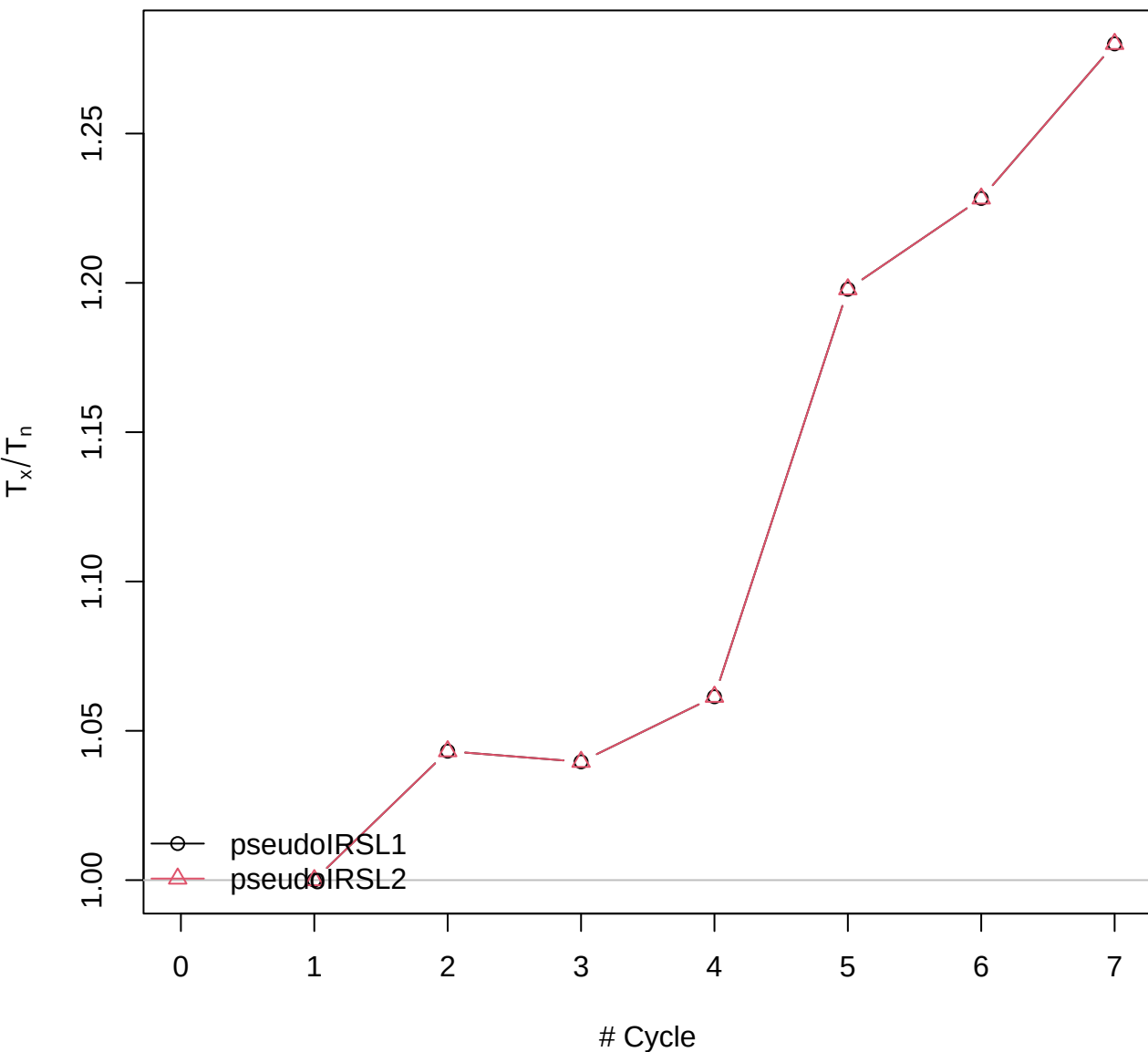
Test-dose response



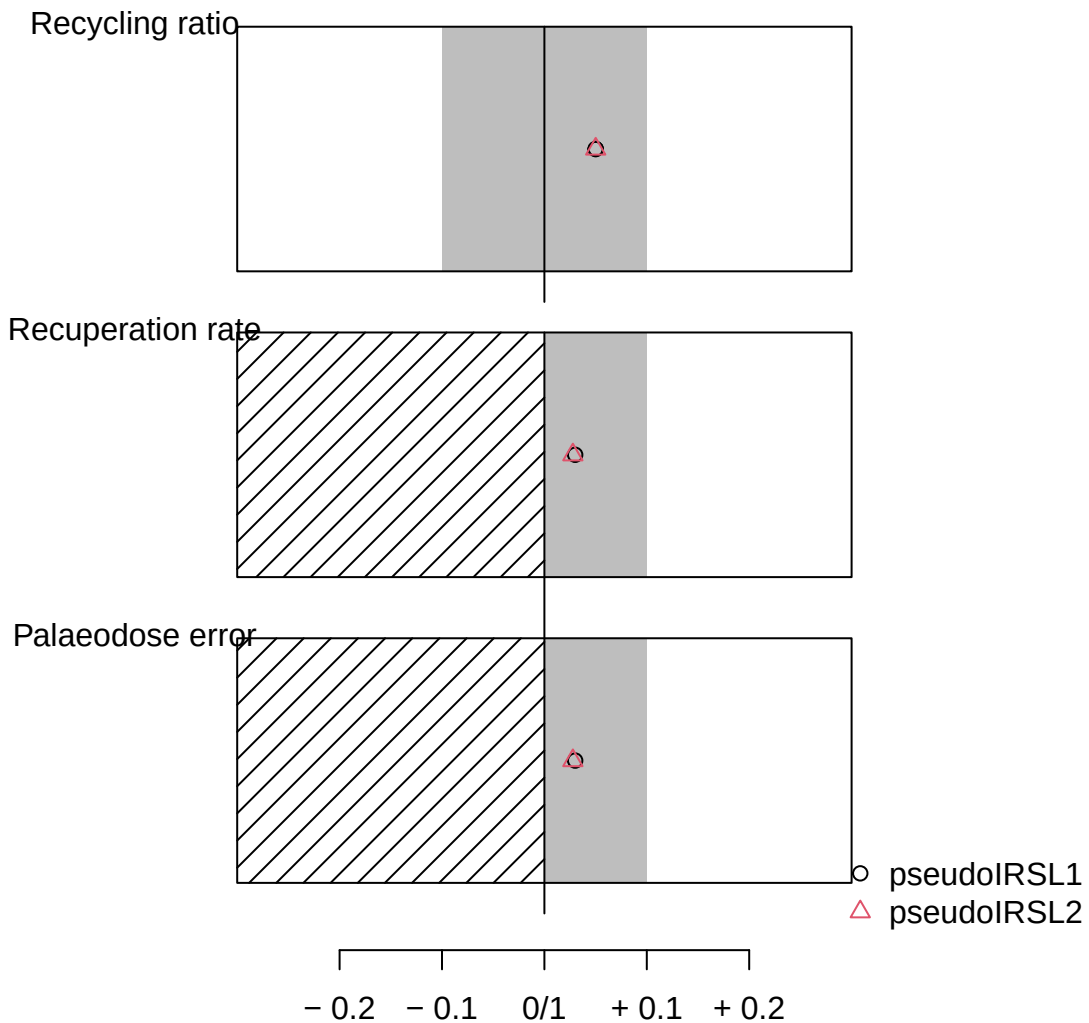
Summarised Dose Response Curves



Sensitivity change

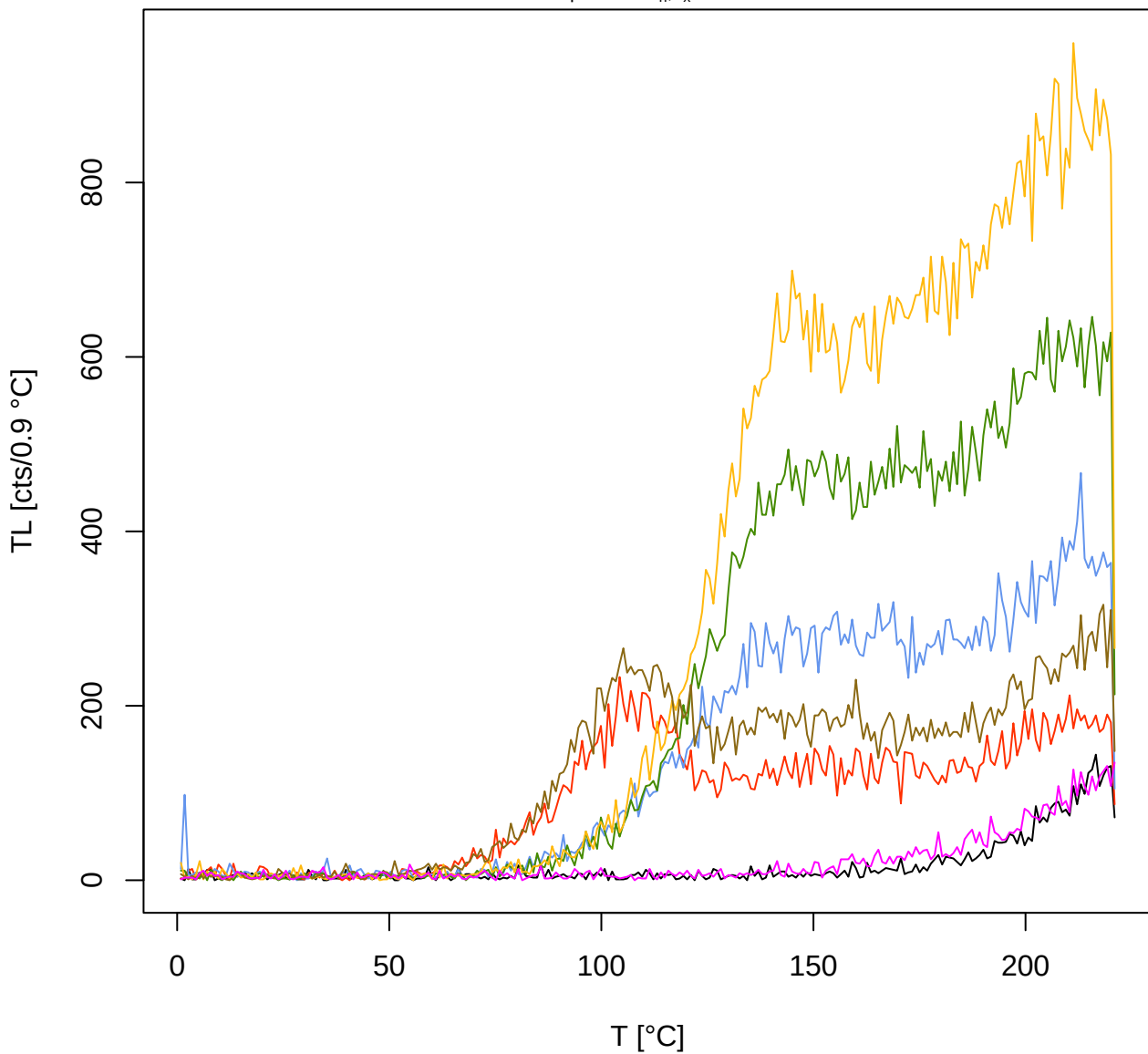


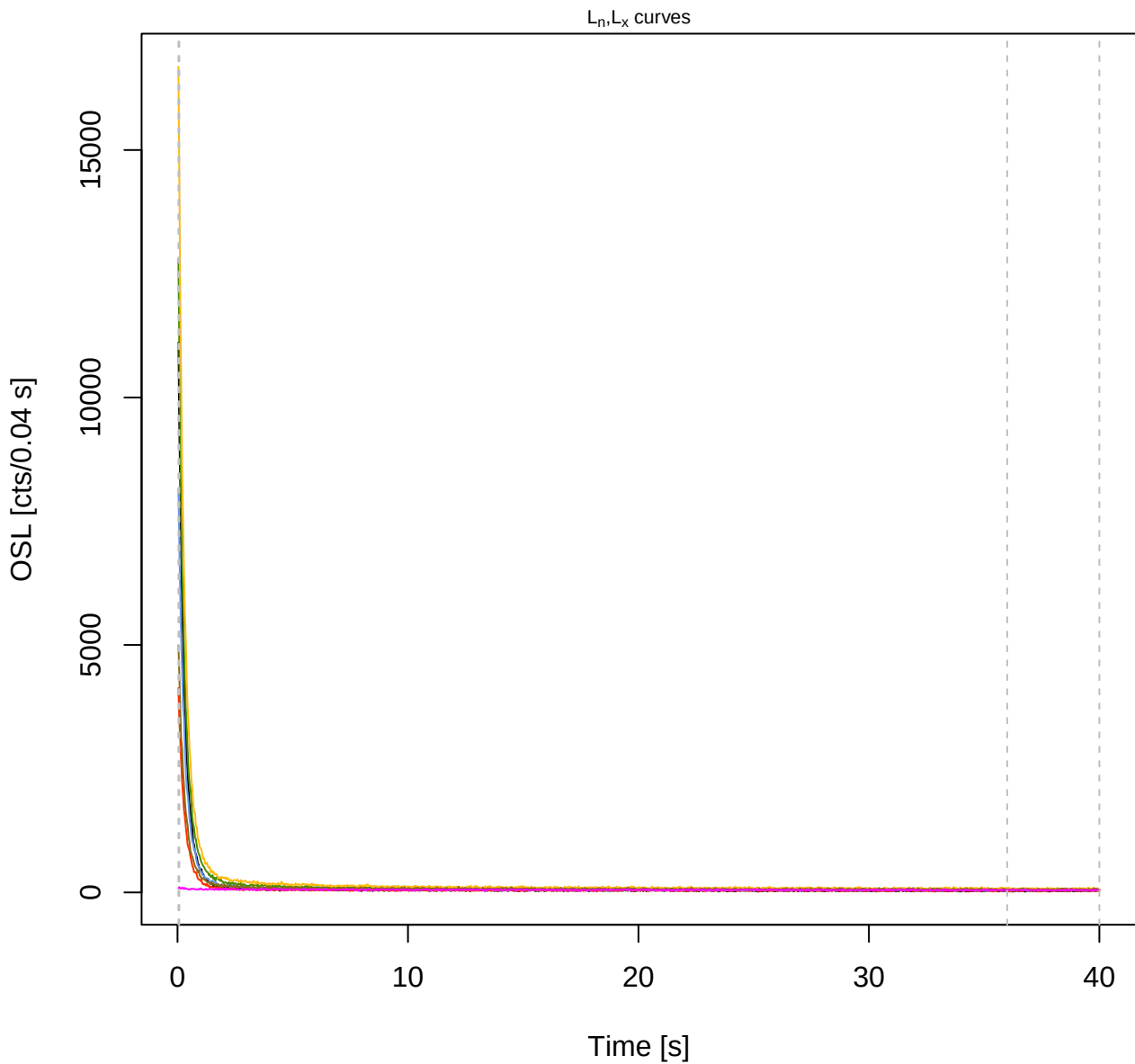
Rejection criteria



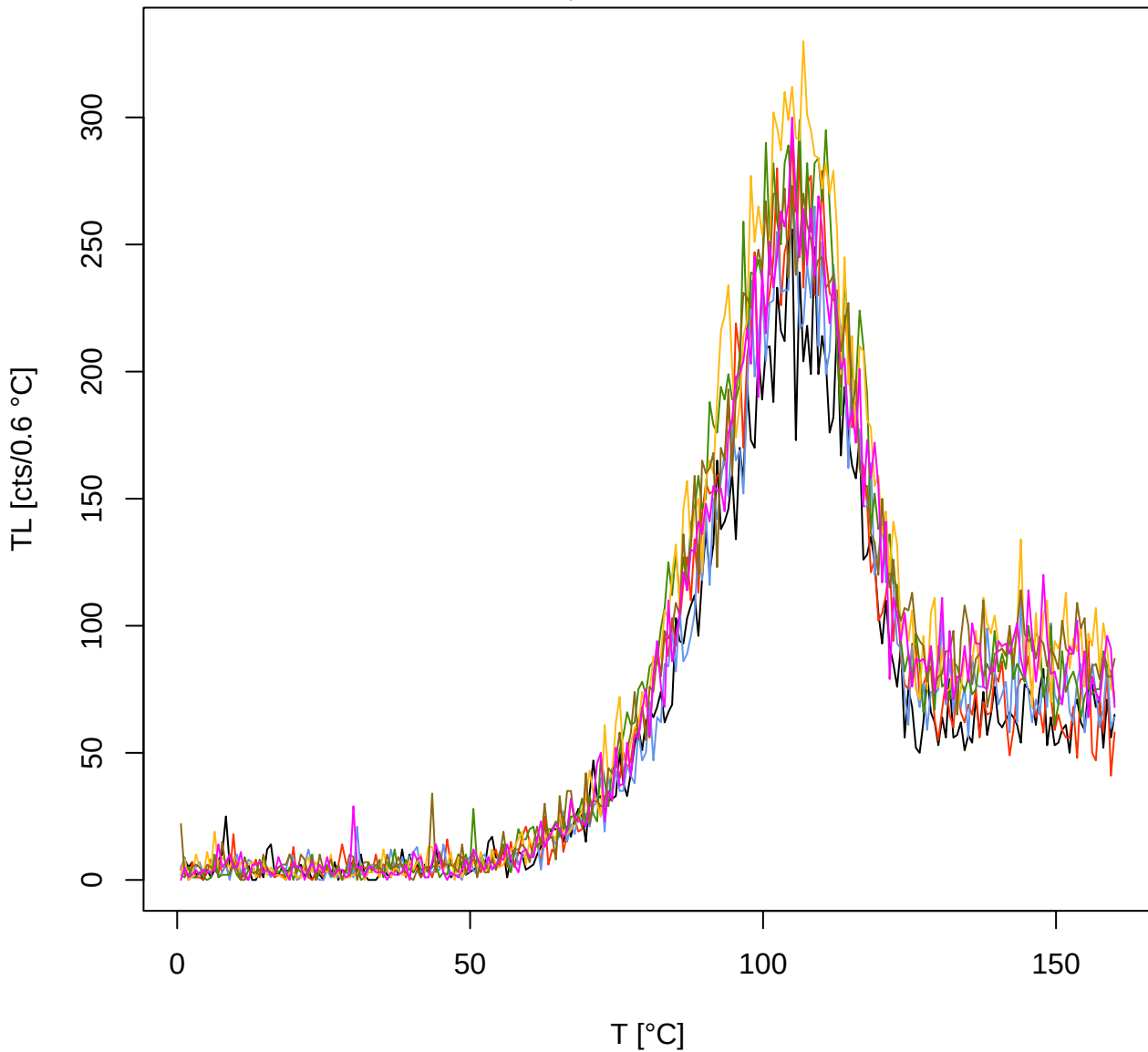
TL
IR50
pIRIR225

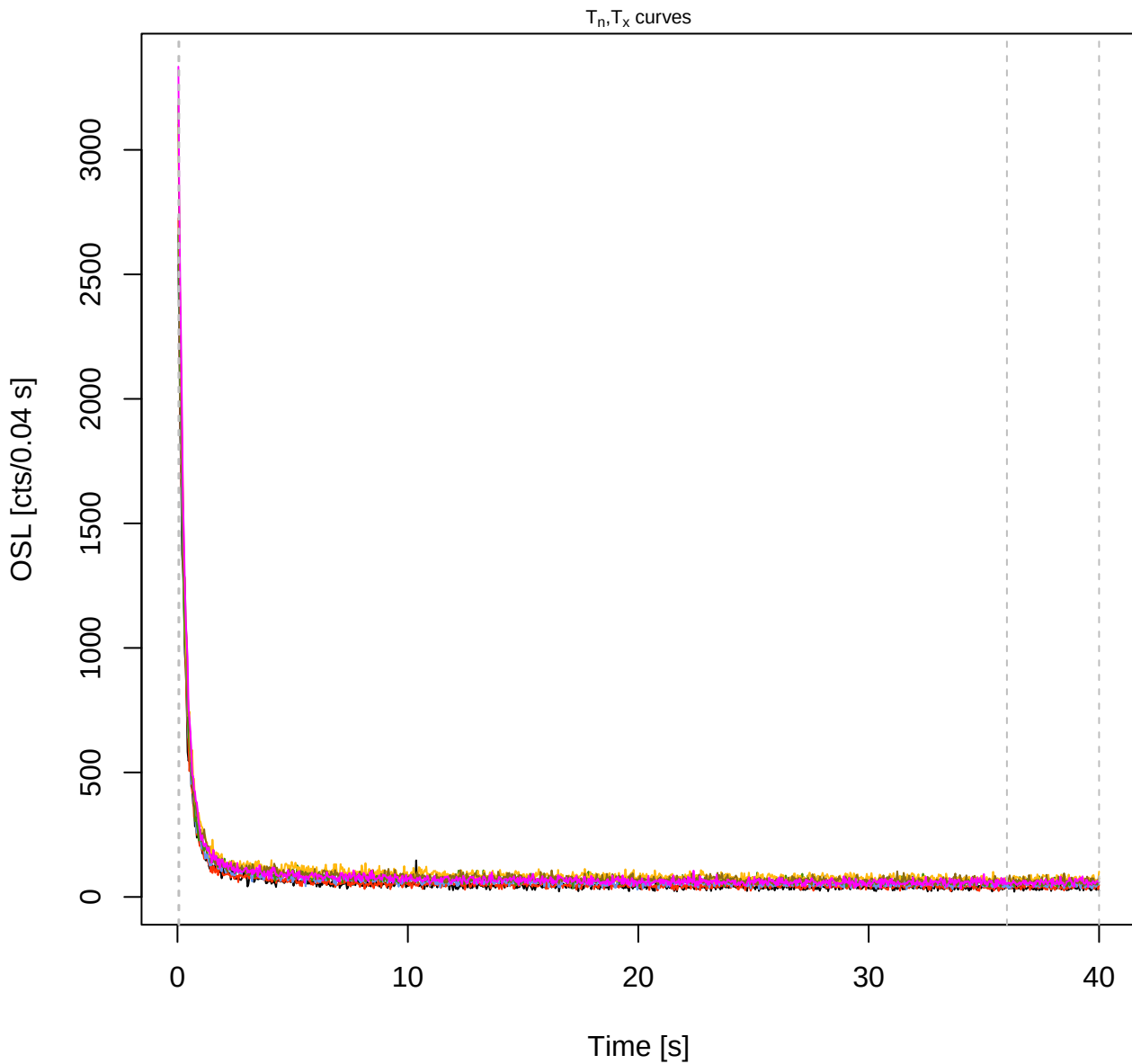
TL previous L_n, L_x curves

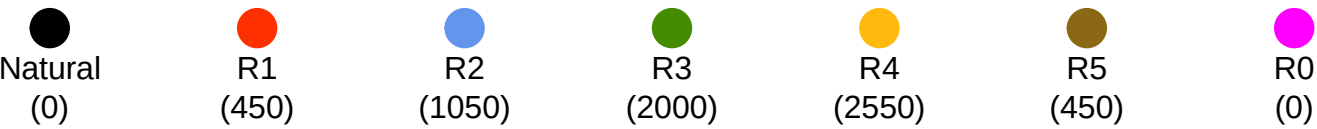




TL previous T_n, T_x curves

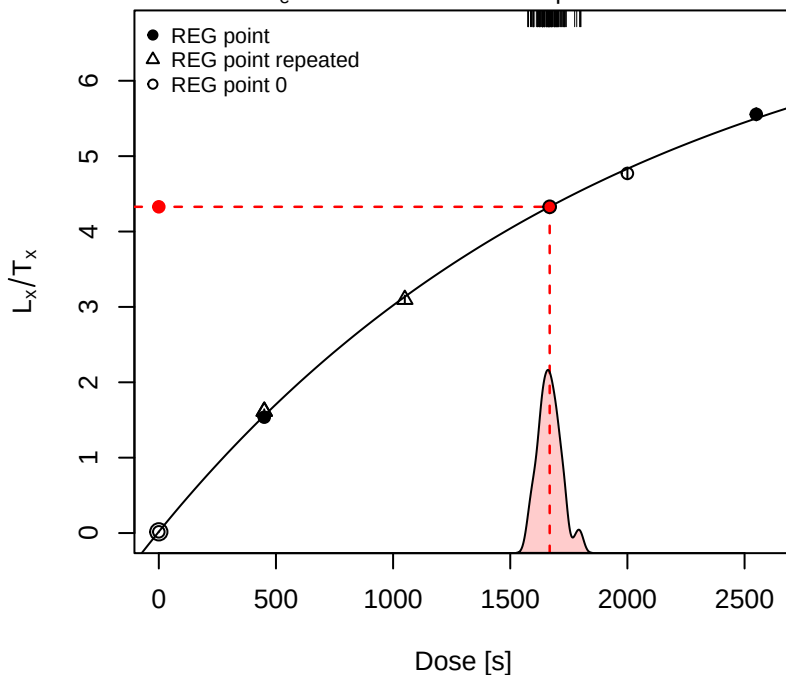




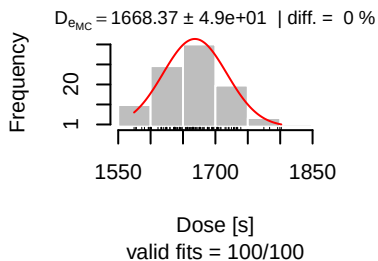


Dose-response curve

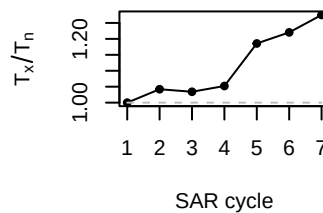
$D_e = 1668.25 \pm 4.9e+01$ | fit: EXP



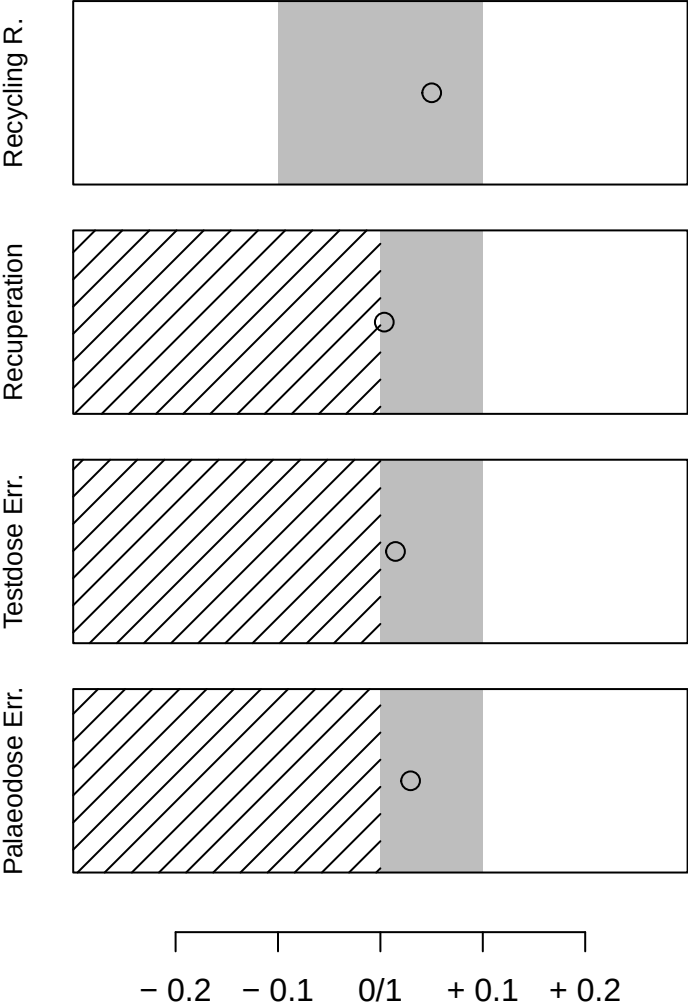
MC runs



Test-dose cycle response

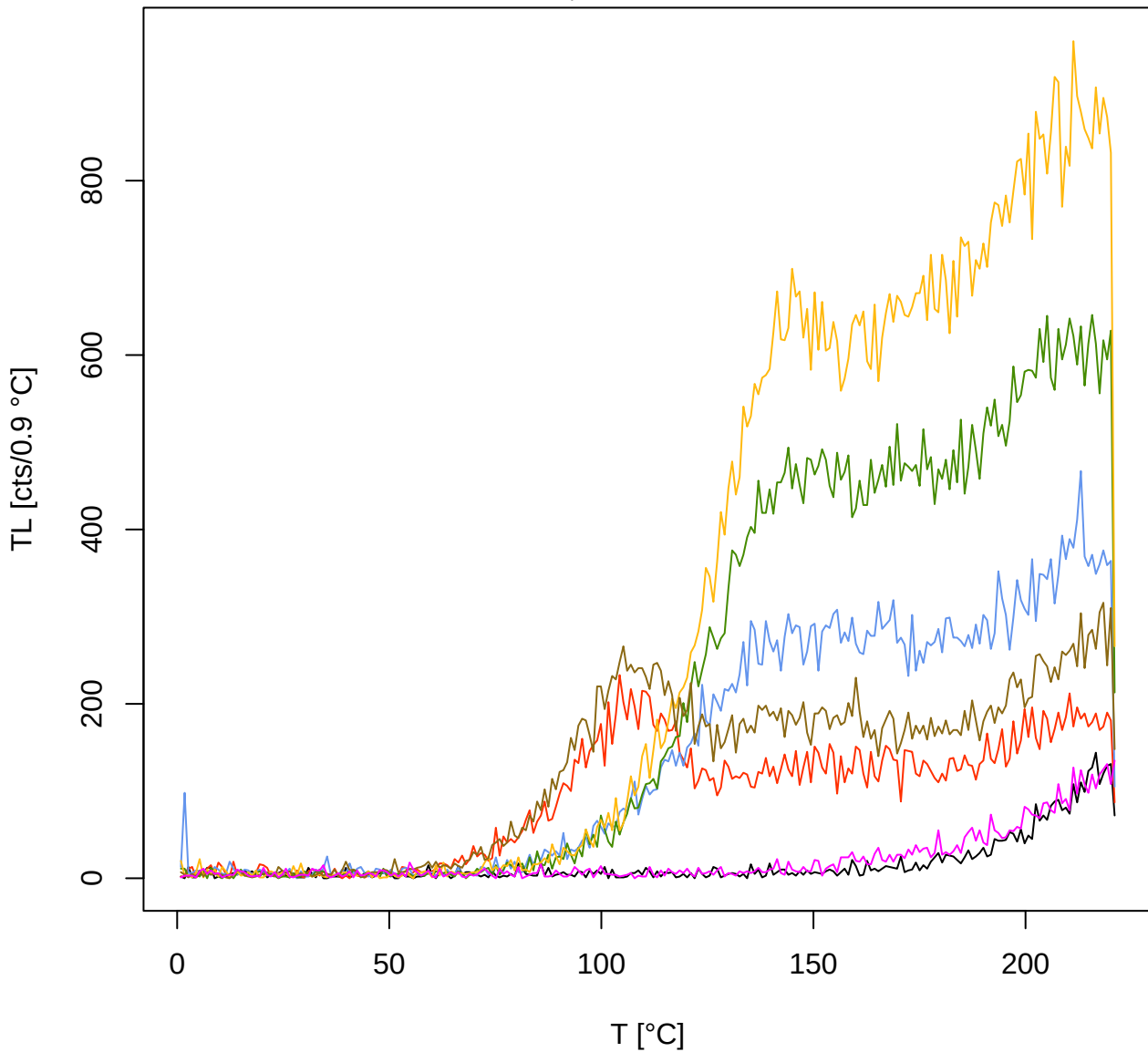


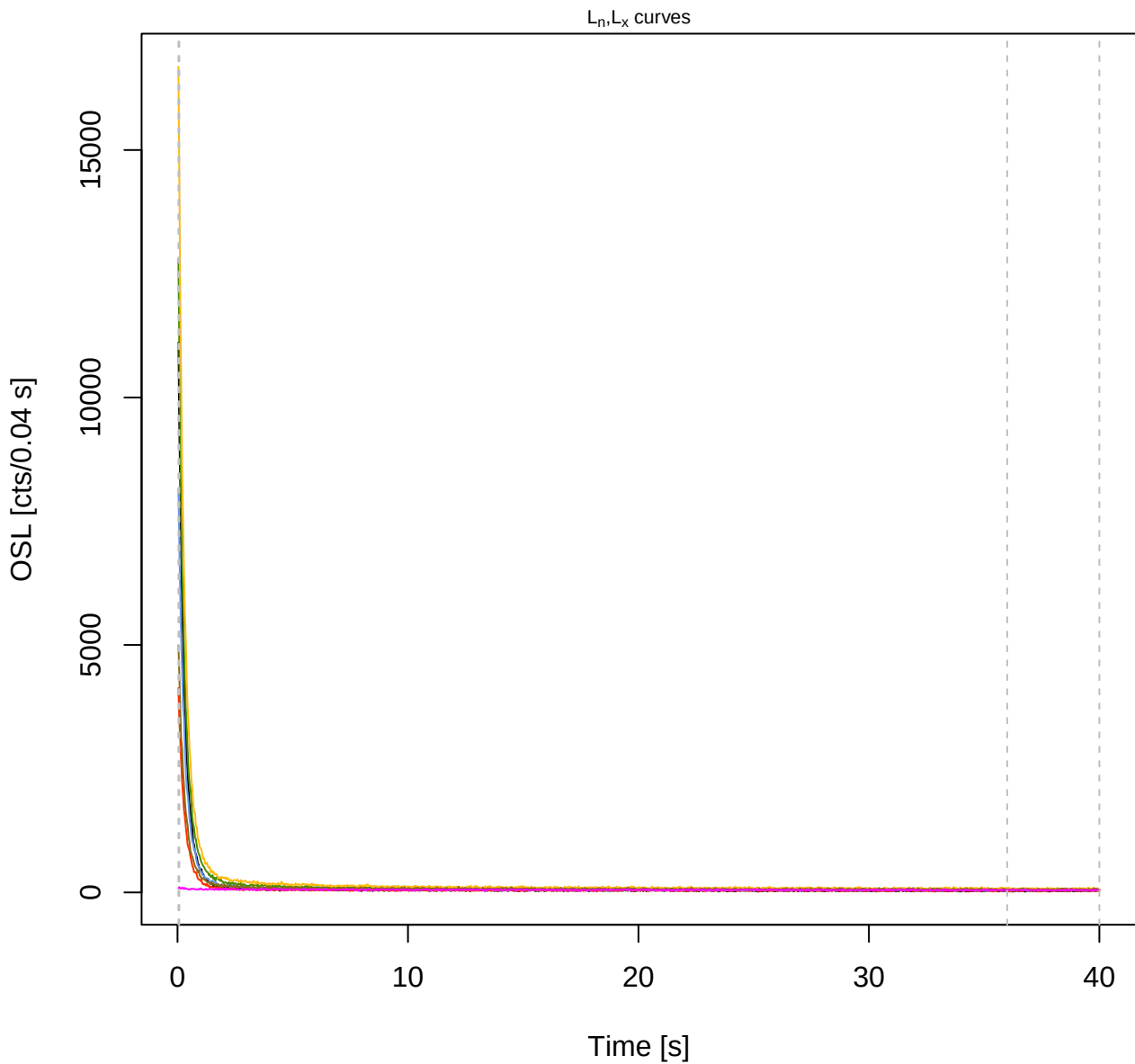
Rejection criteria



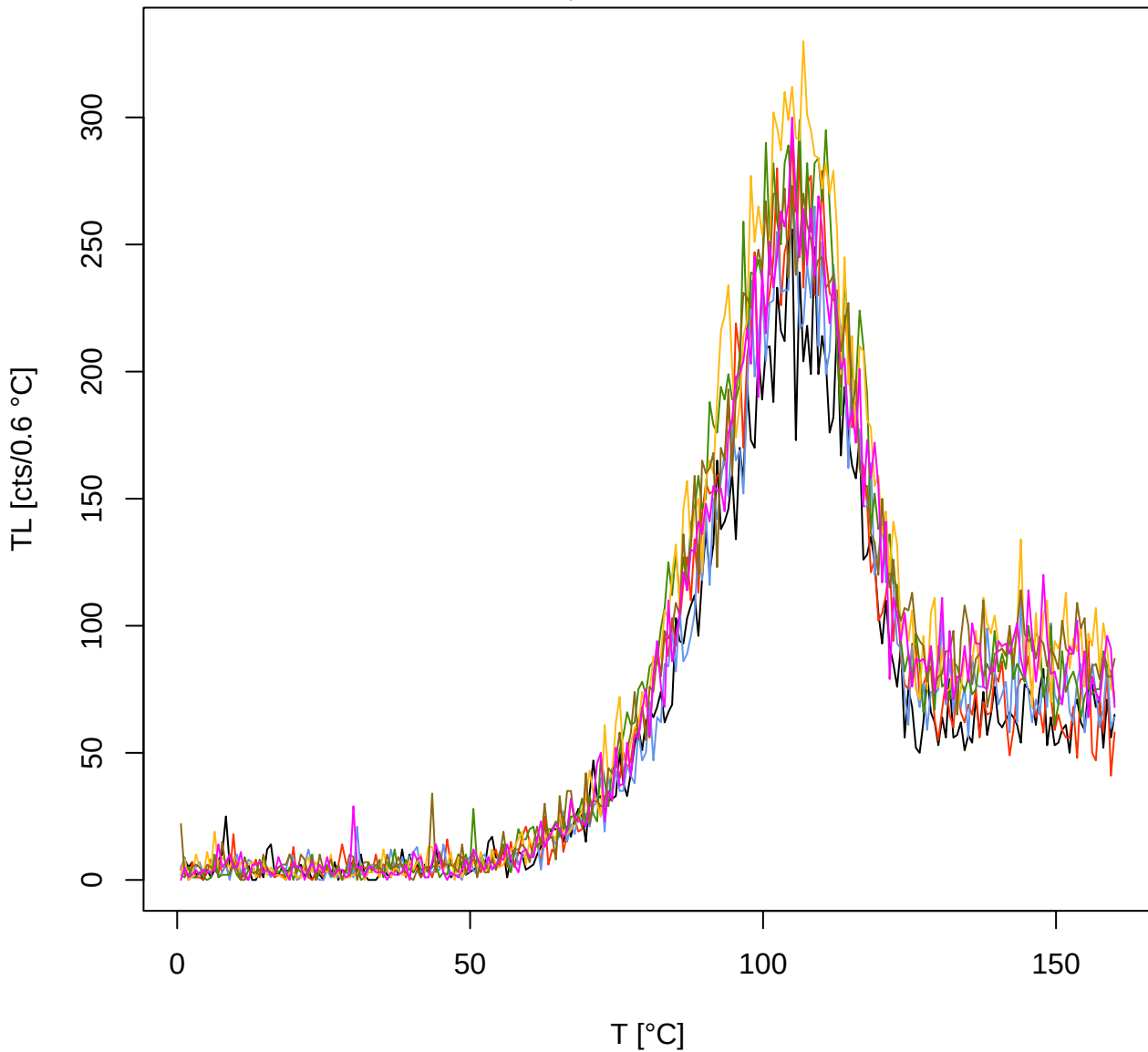
No IRSL curve detected!

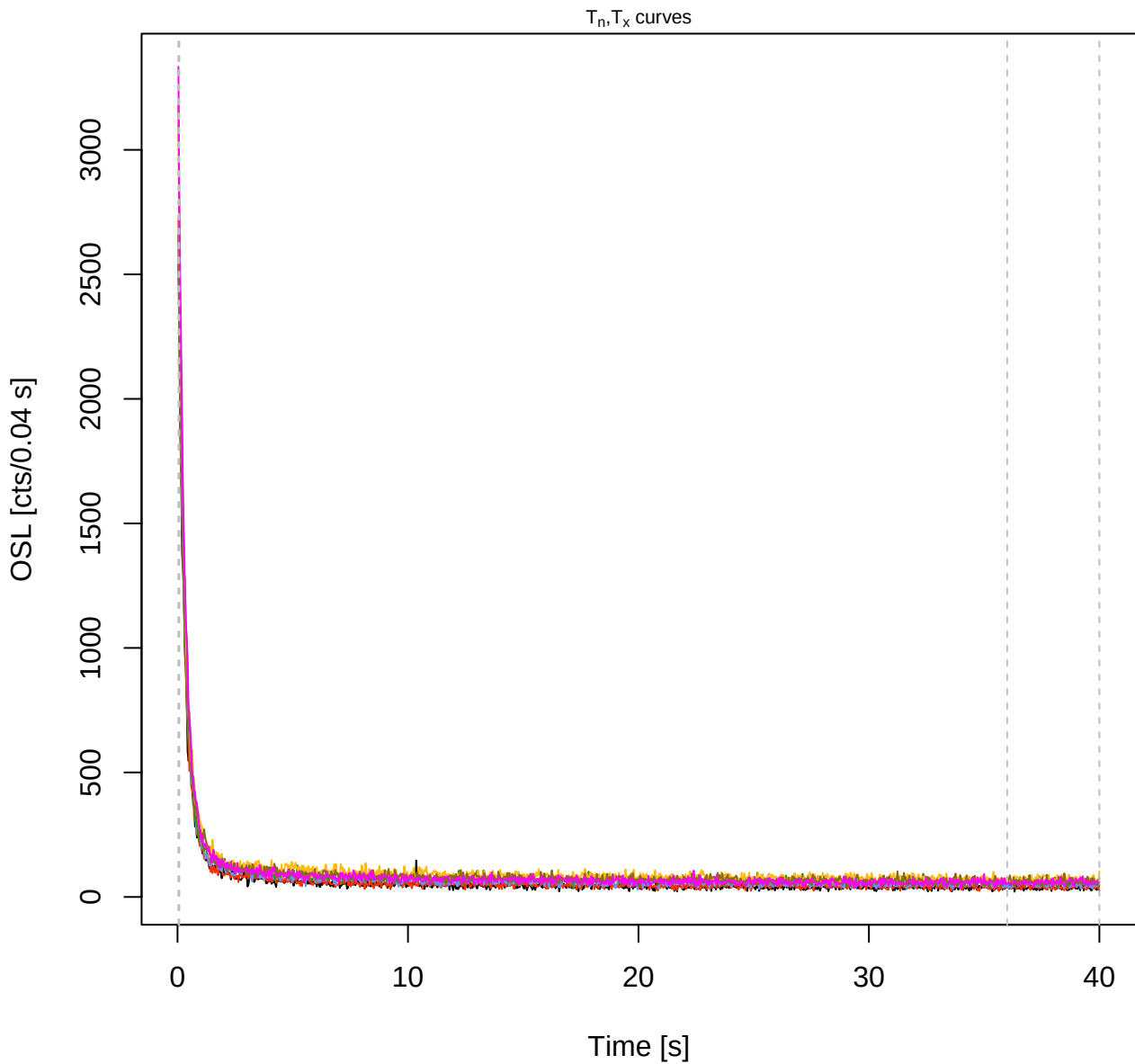
TL previous L_n, L_x curves

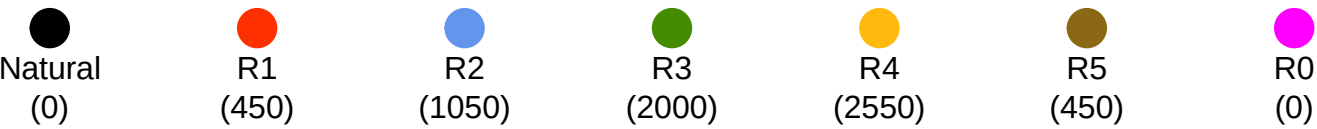




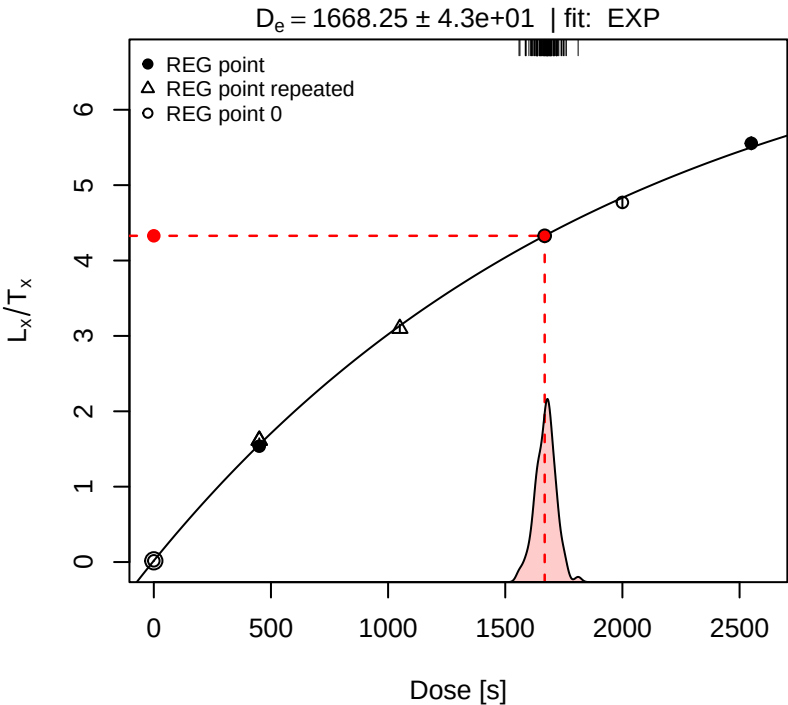
TL previous T_n, T_x curves



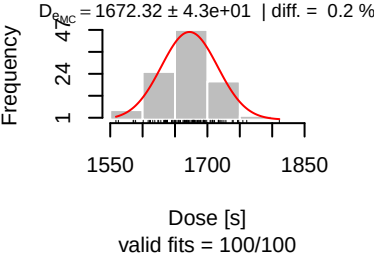




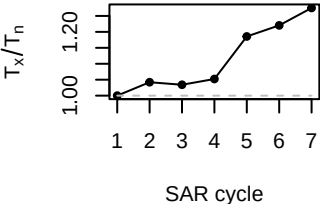
Dose-response curve



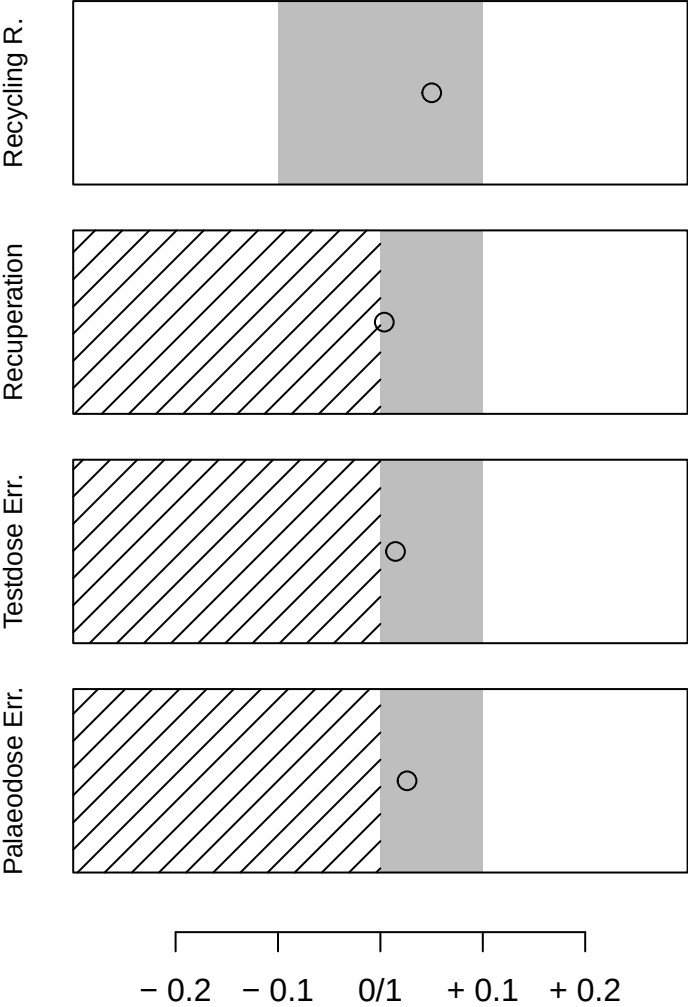
MC runs



Test-dose response

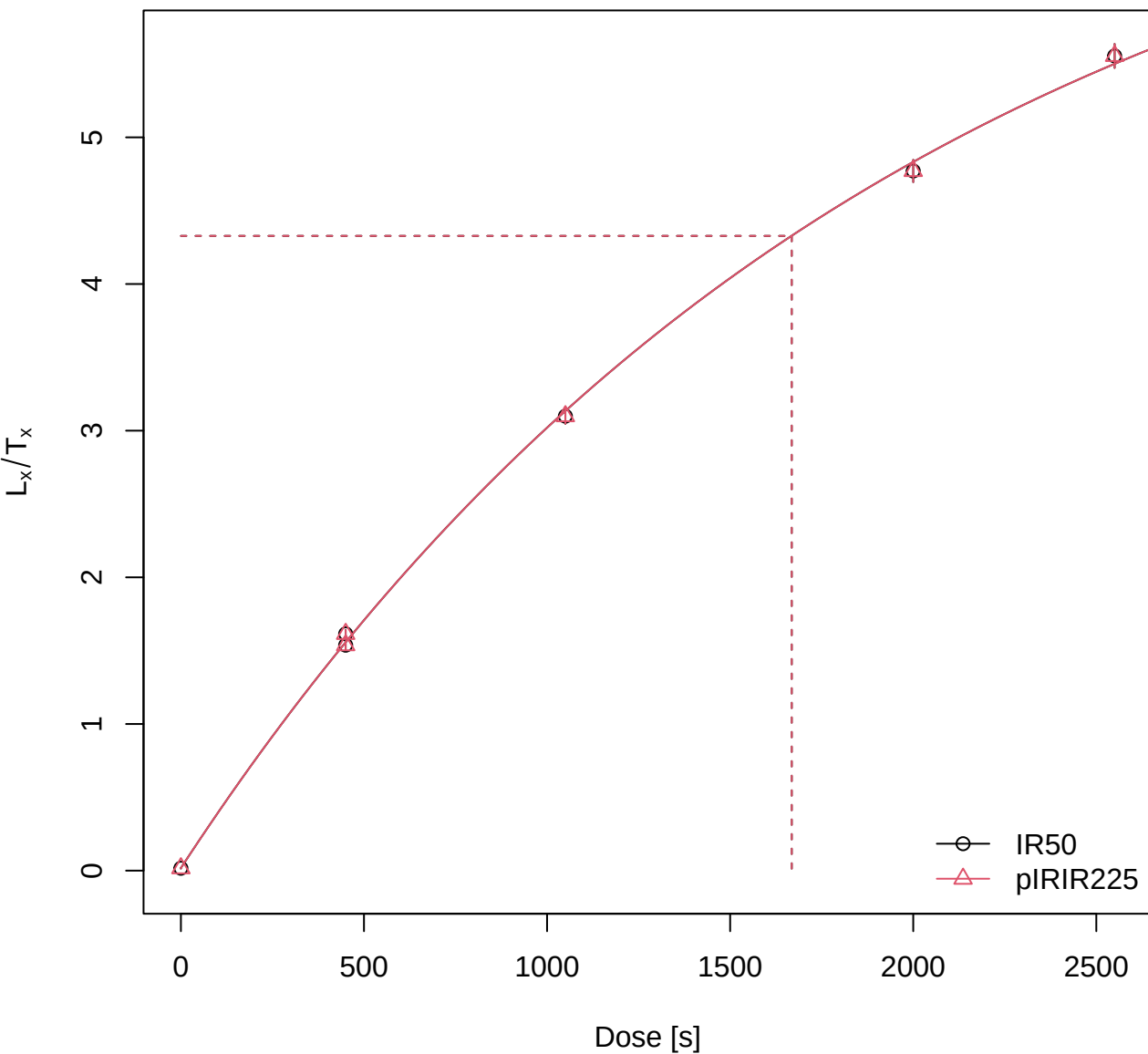


Rejection criteria

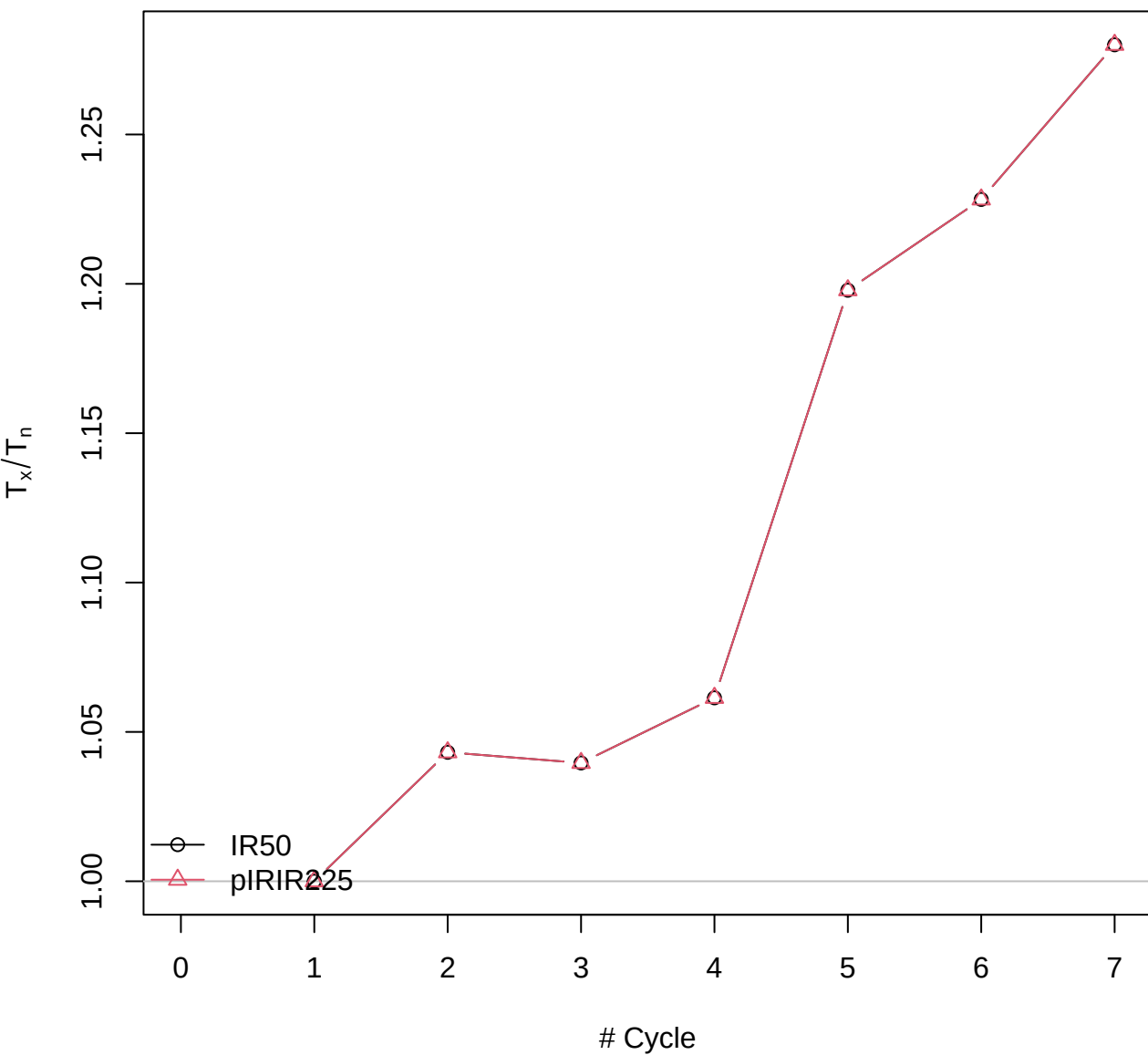


No IRSL curve detected!

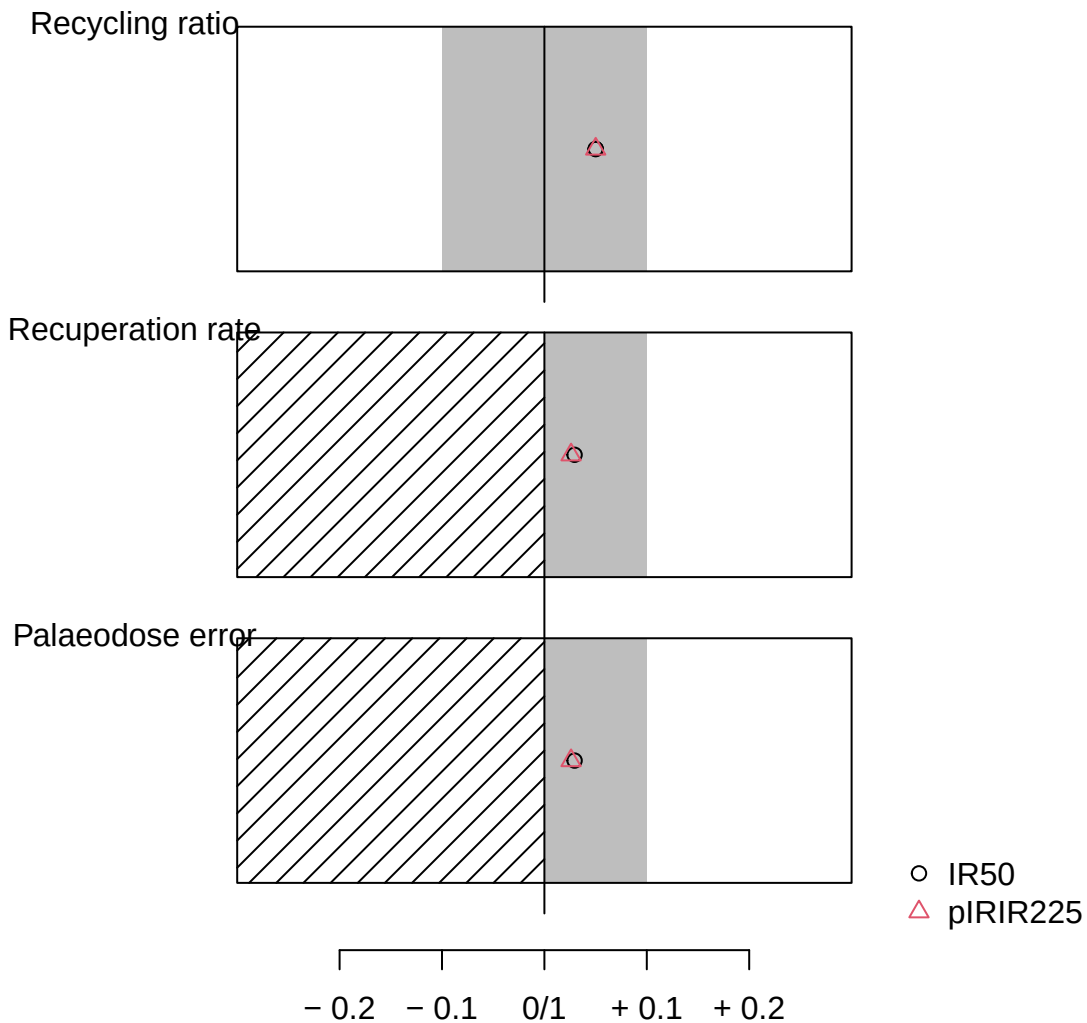
Summarised Dose Response Curves



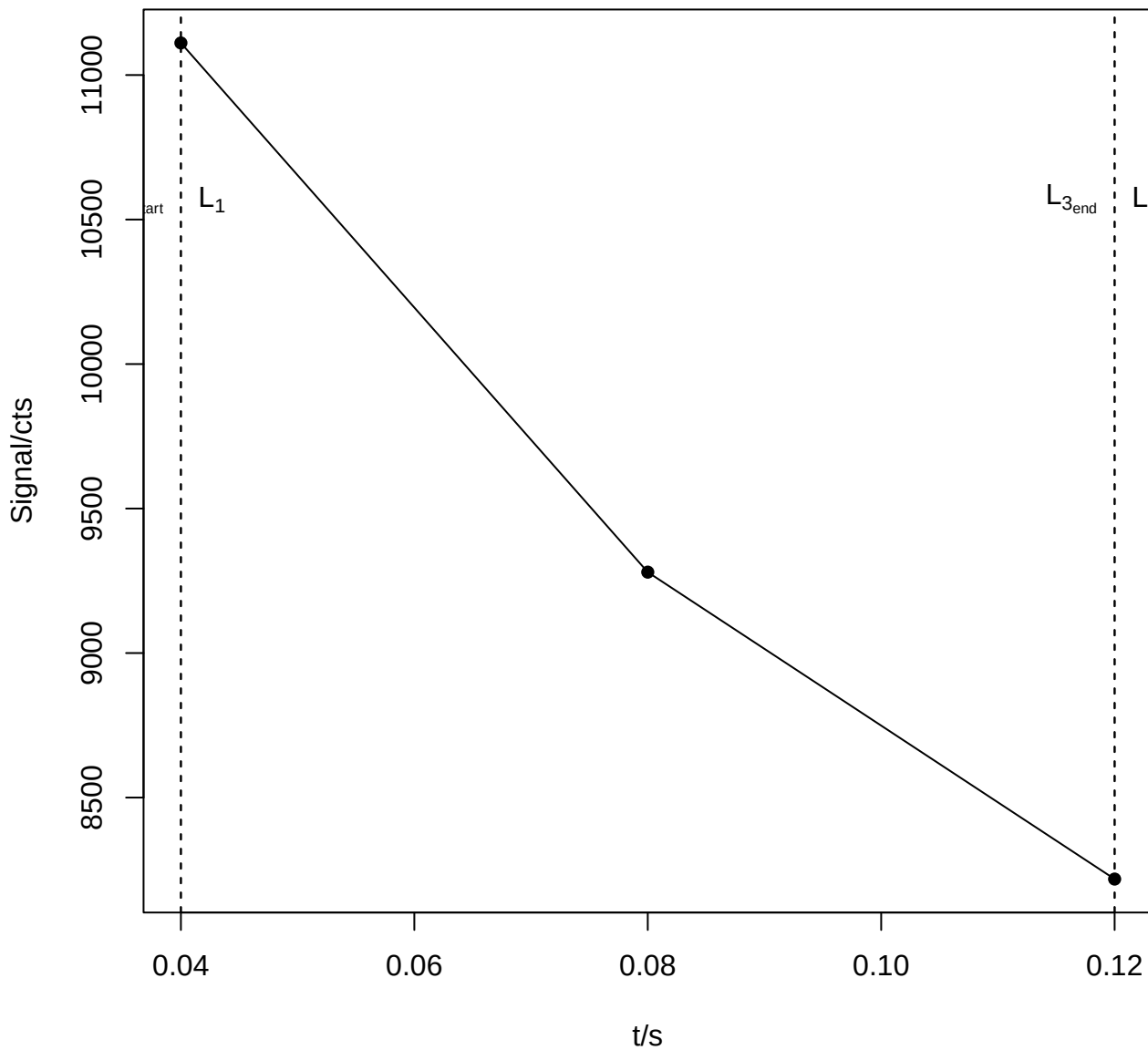
Sensitivity change



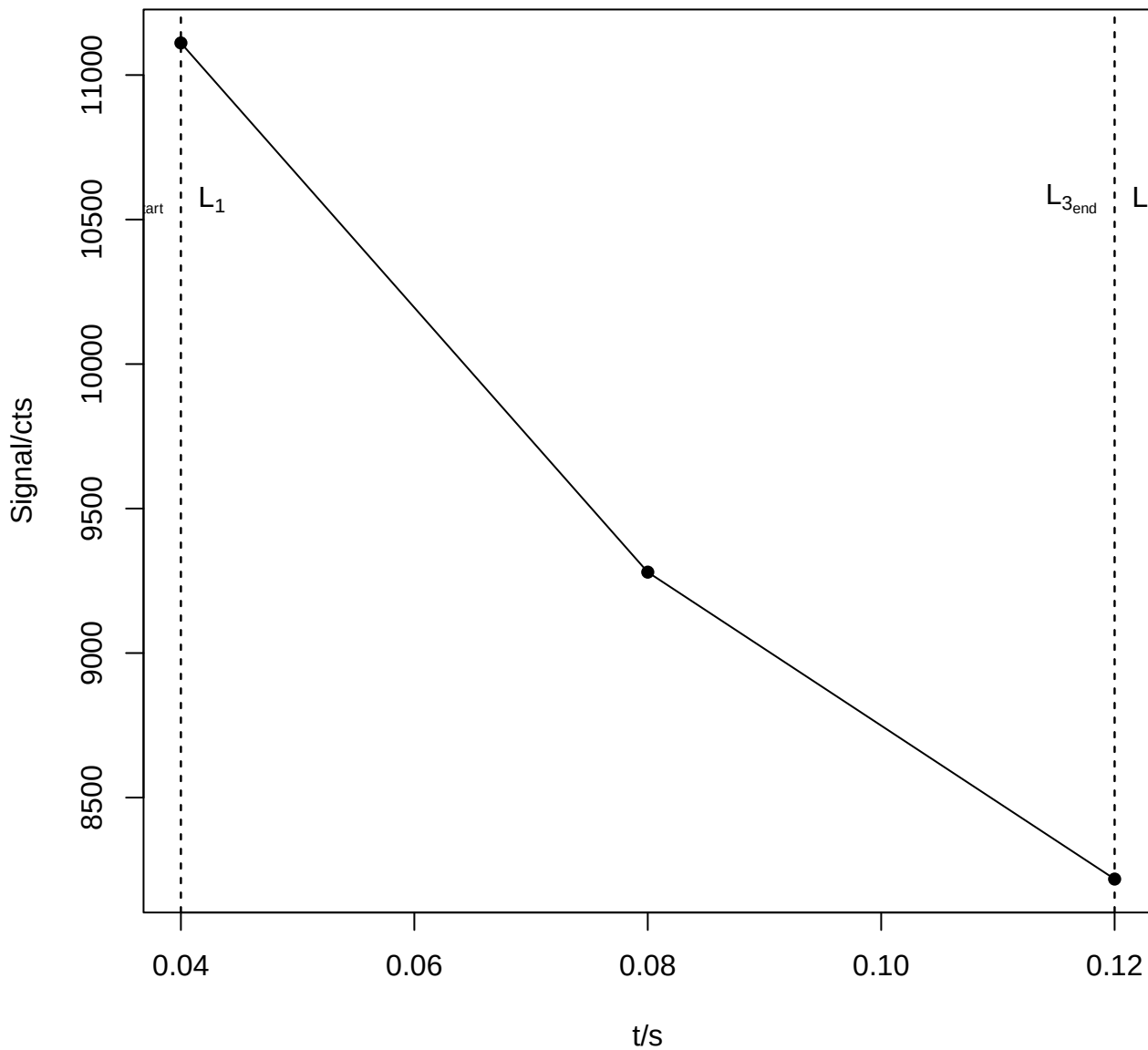
Rejection criteria



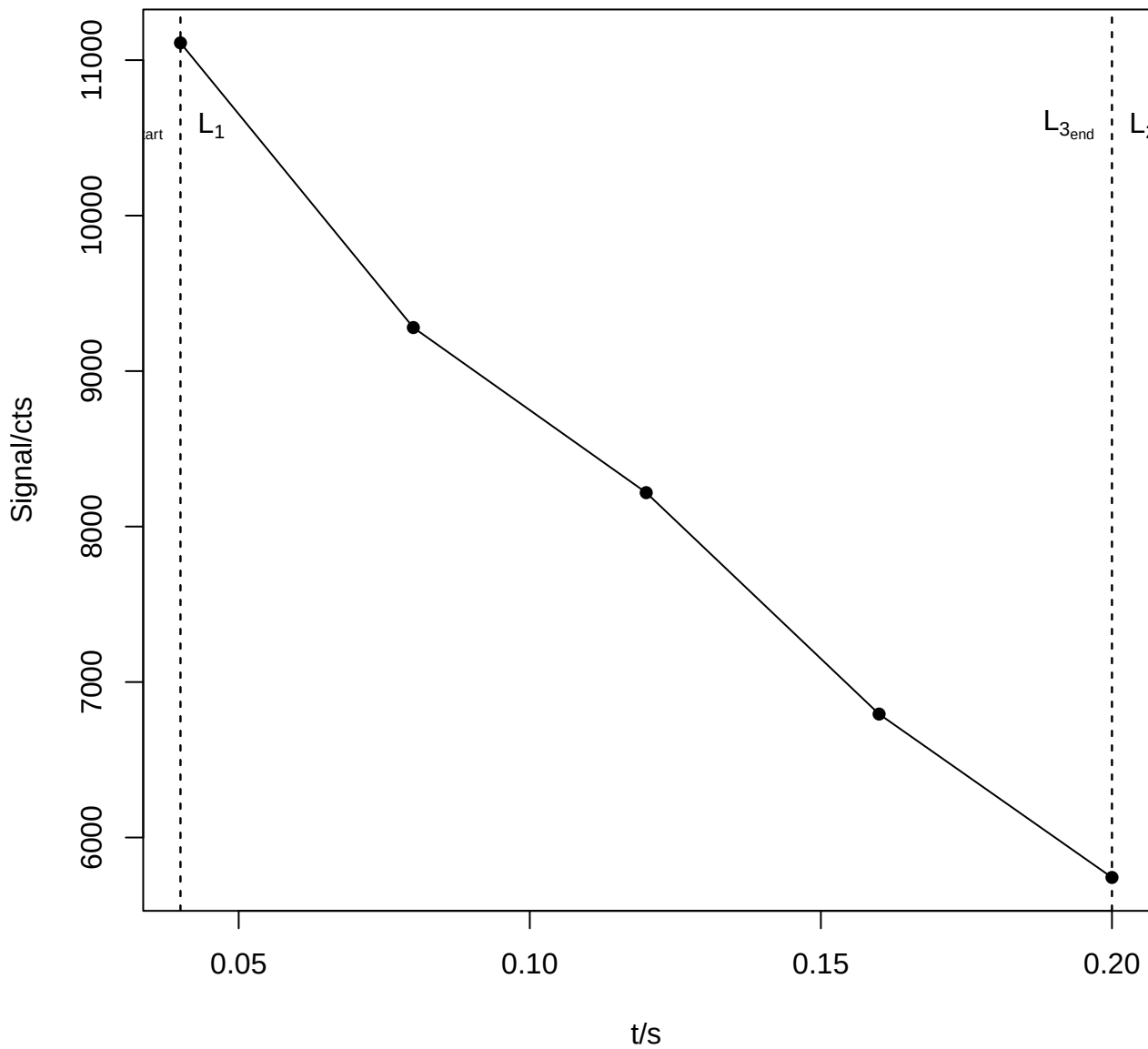
Fast Ratio



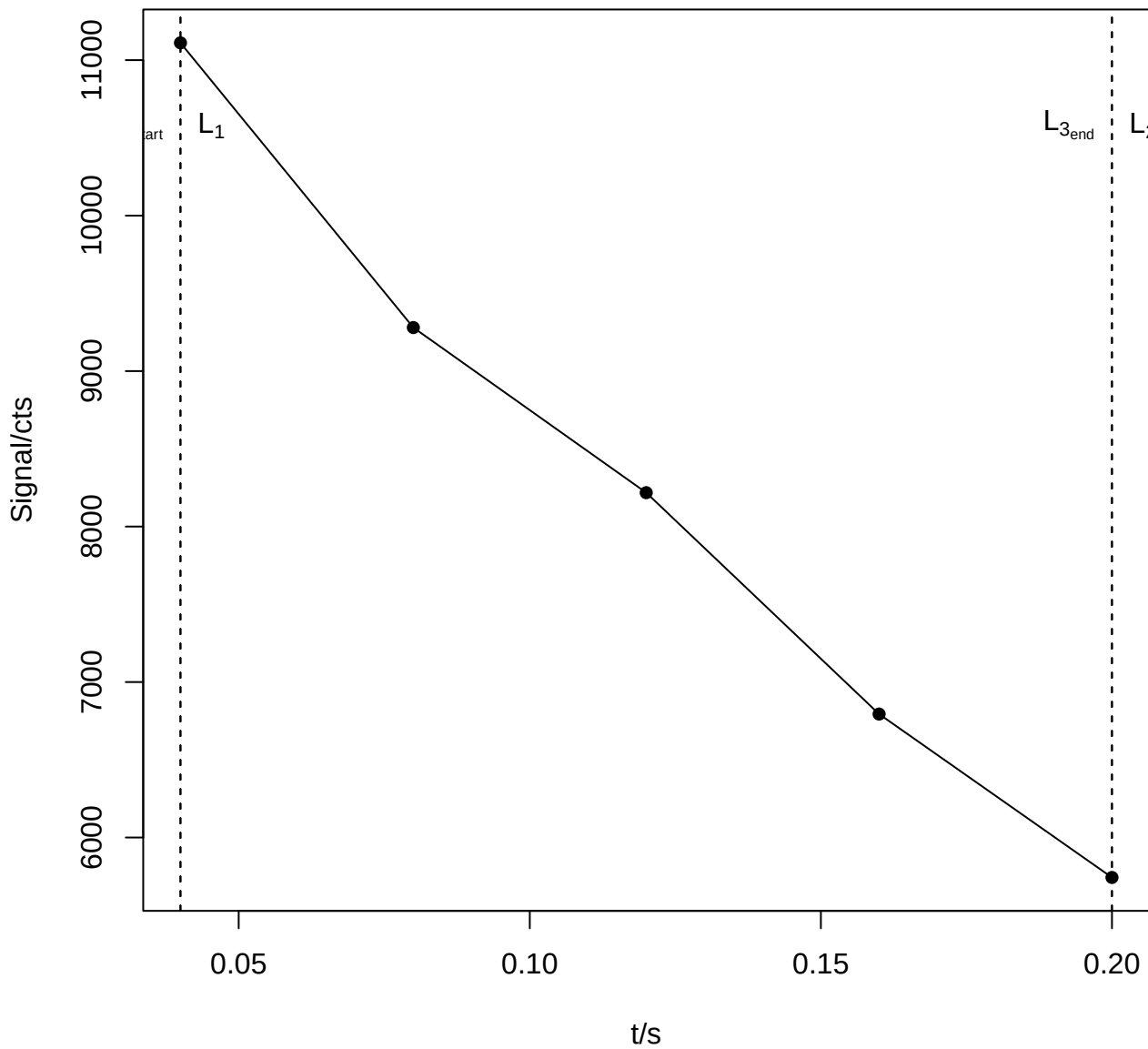
Fast Ratio



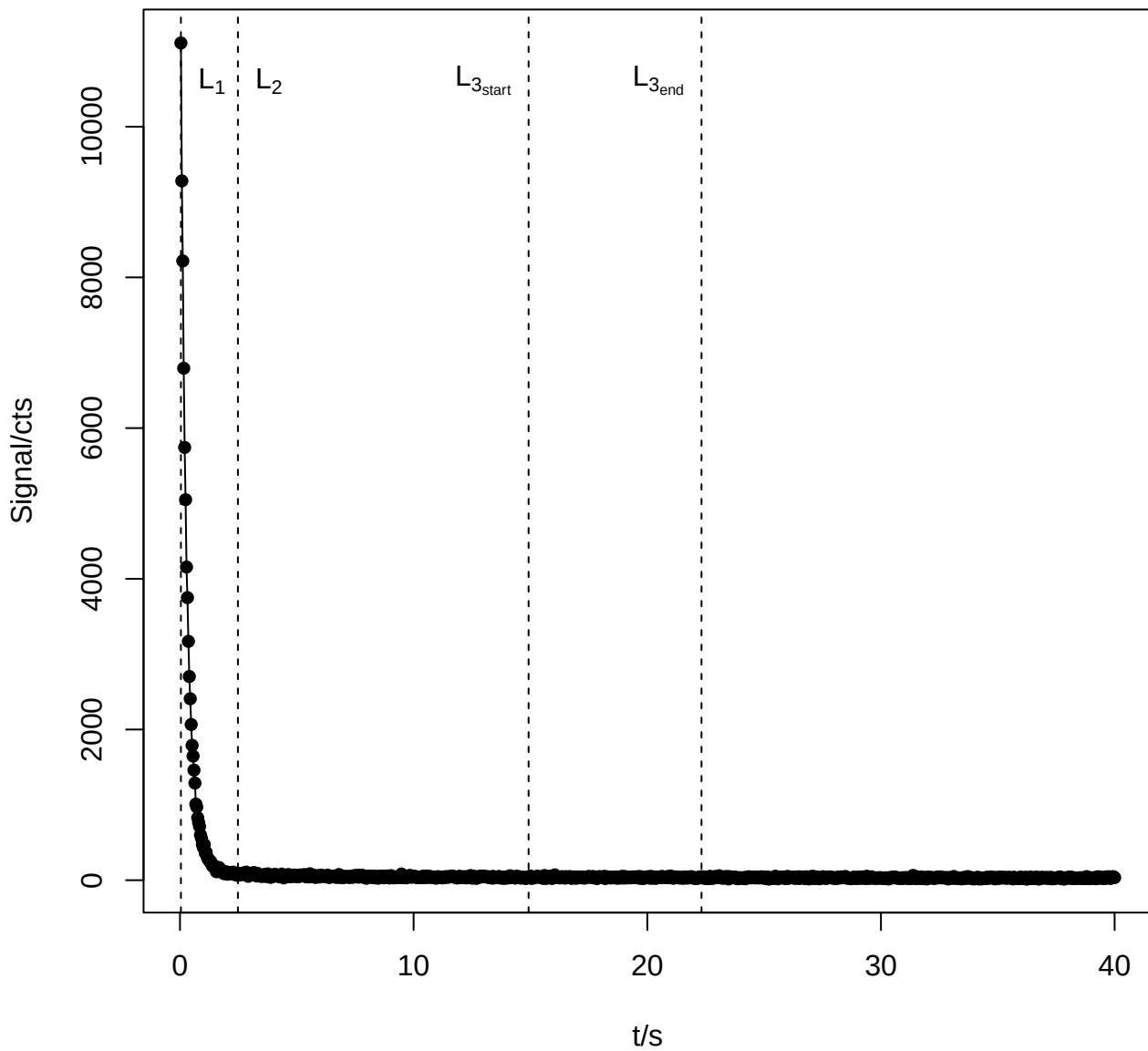
Fast Ratio



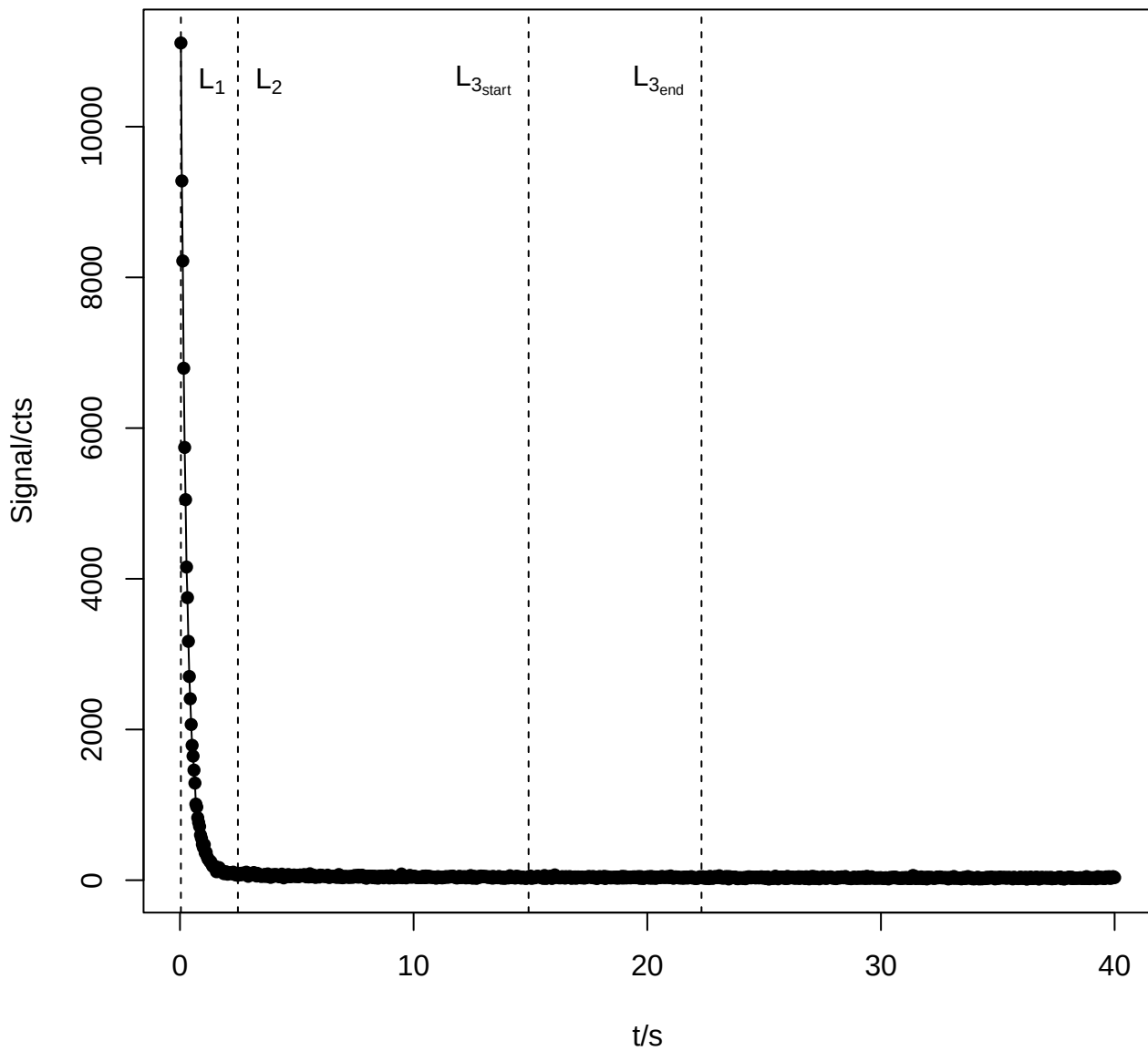
Fast Ratio



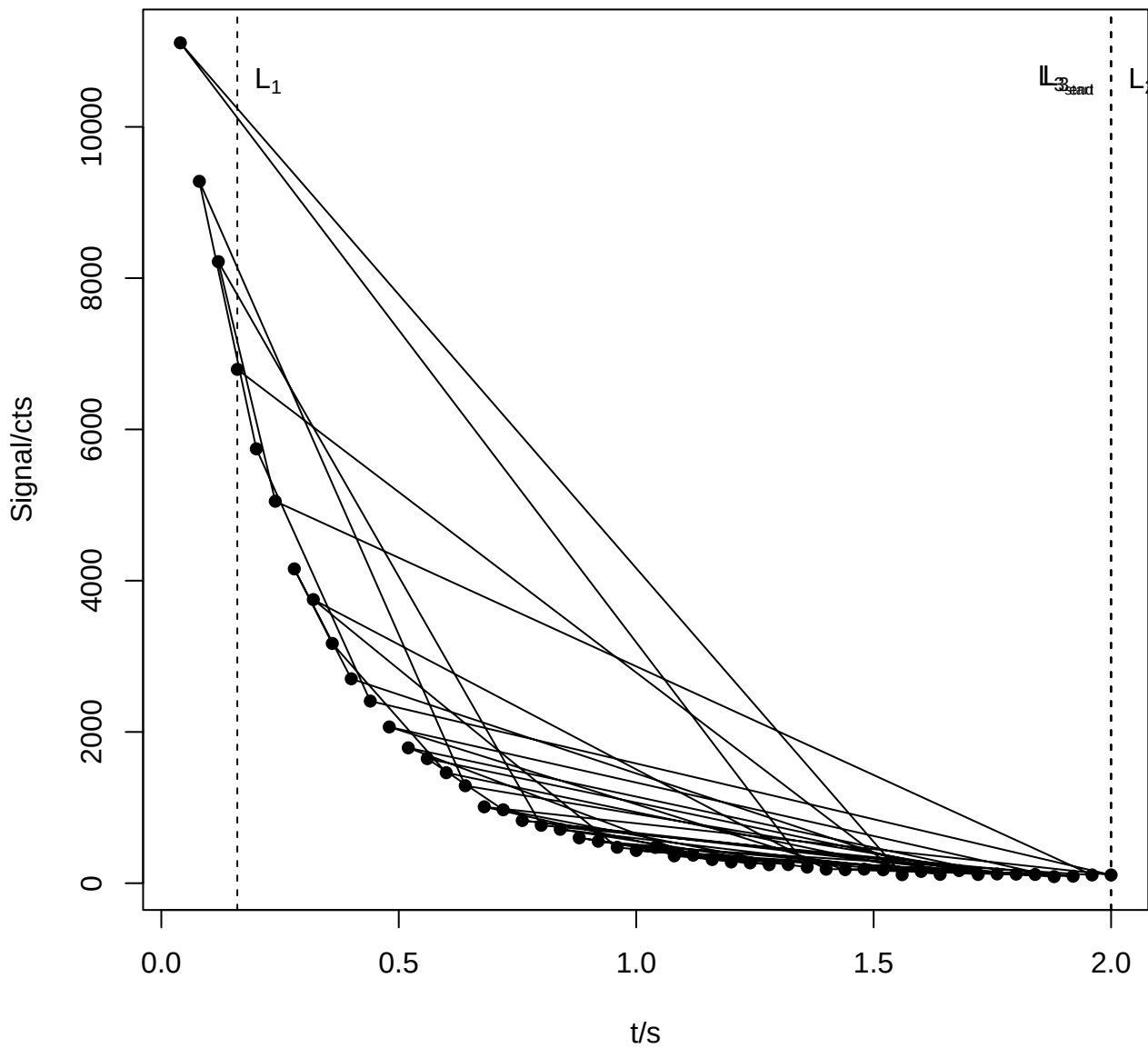
Fast Ratio



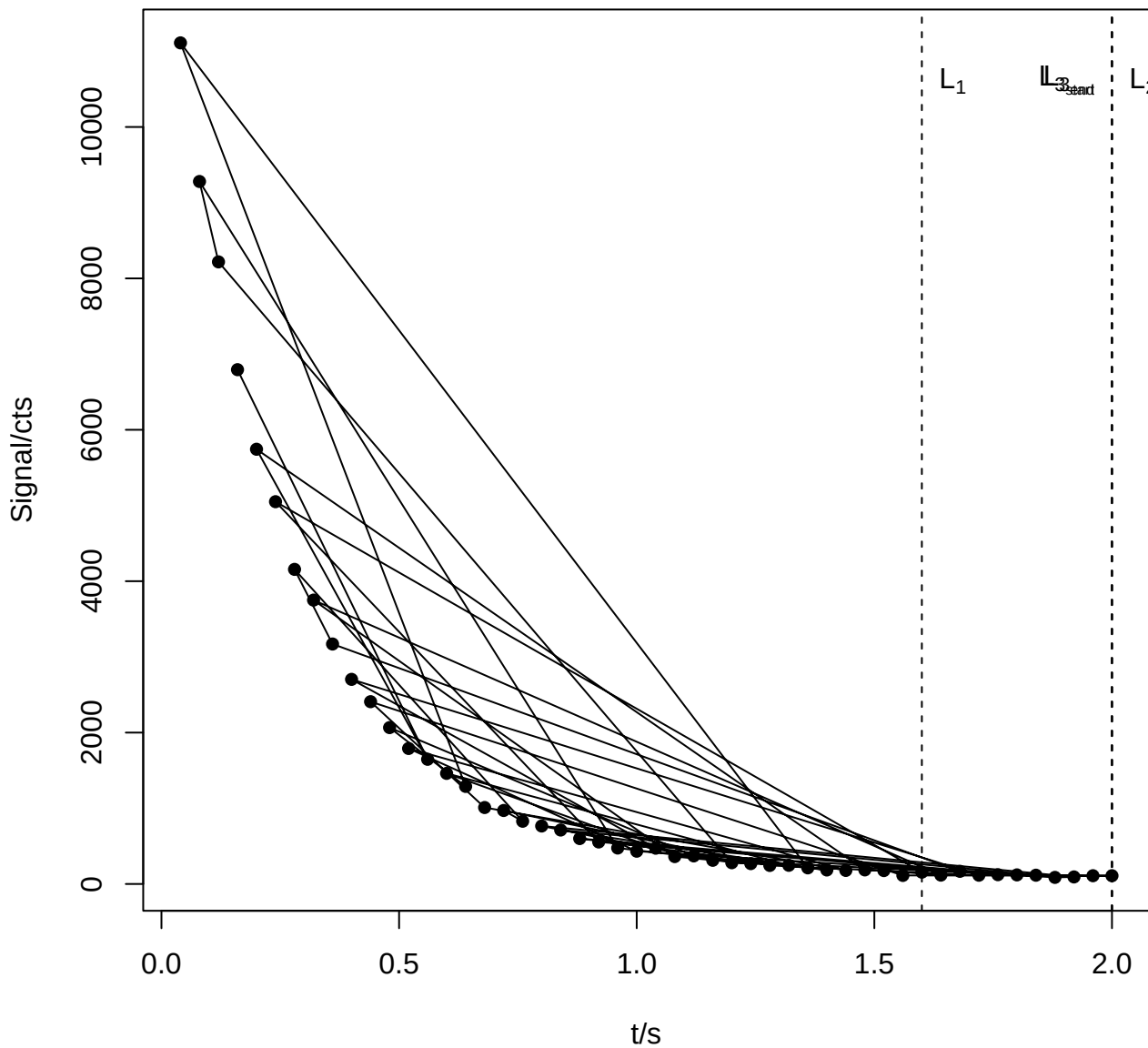
Fast Ratio



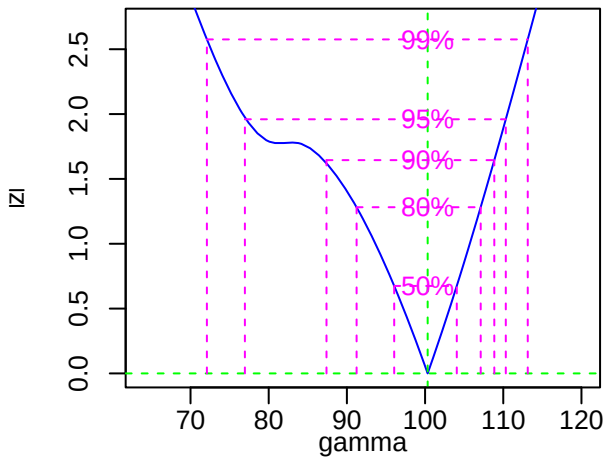
Fast Ratio



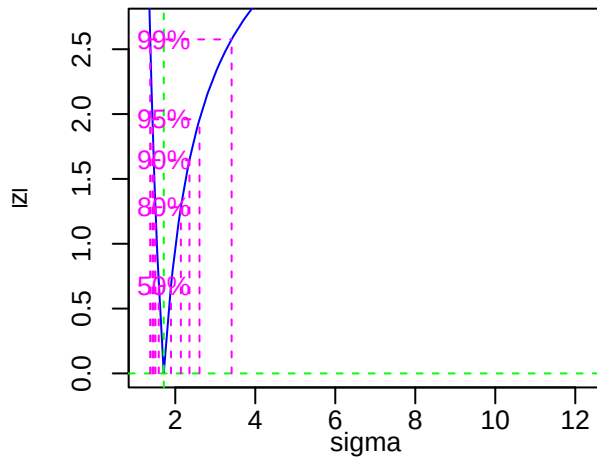
Fast Ratio



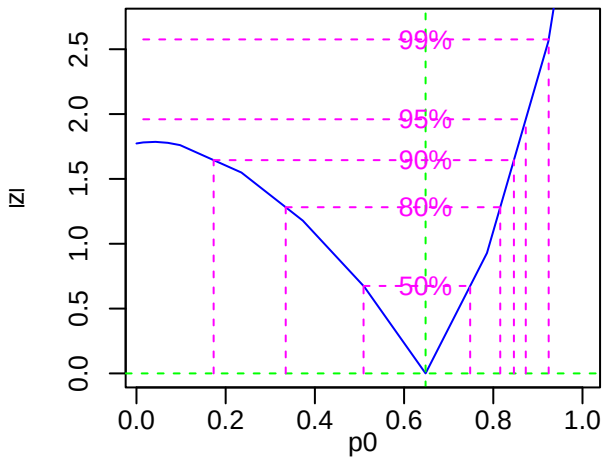
Likelihood profile: gamma



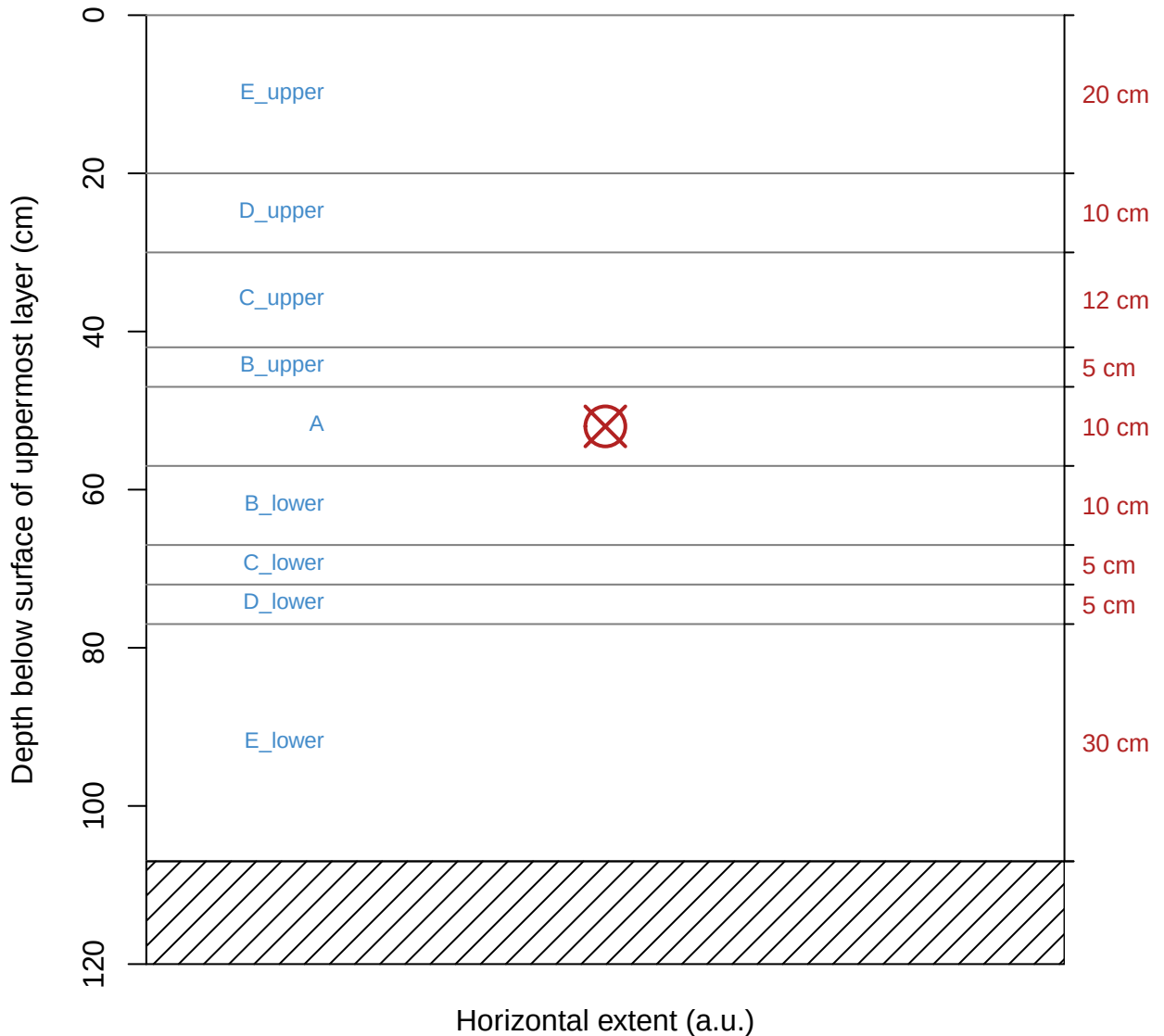
Likelihood profile: sigma

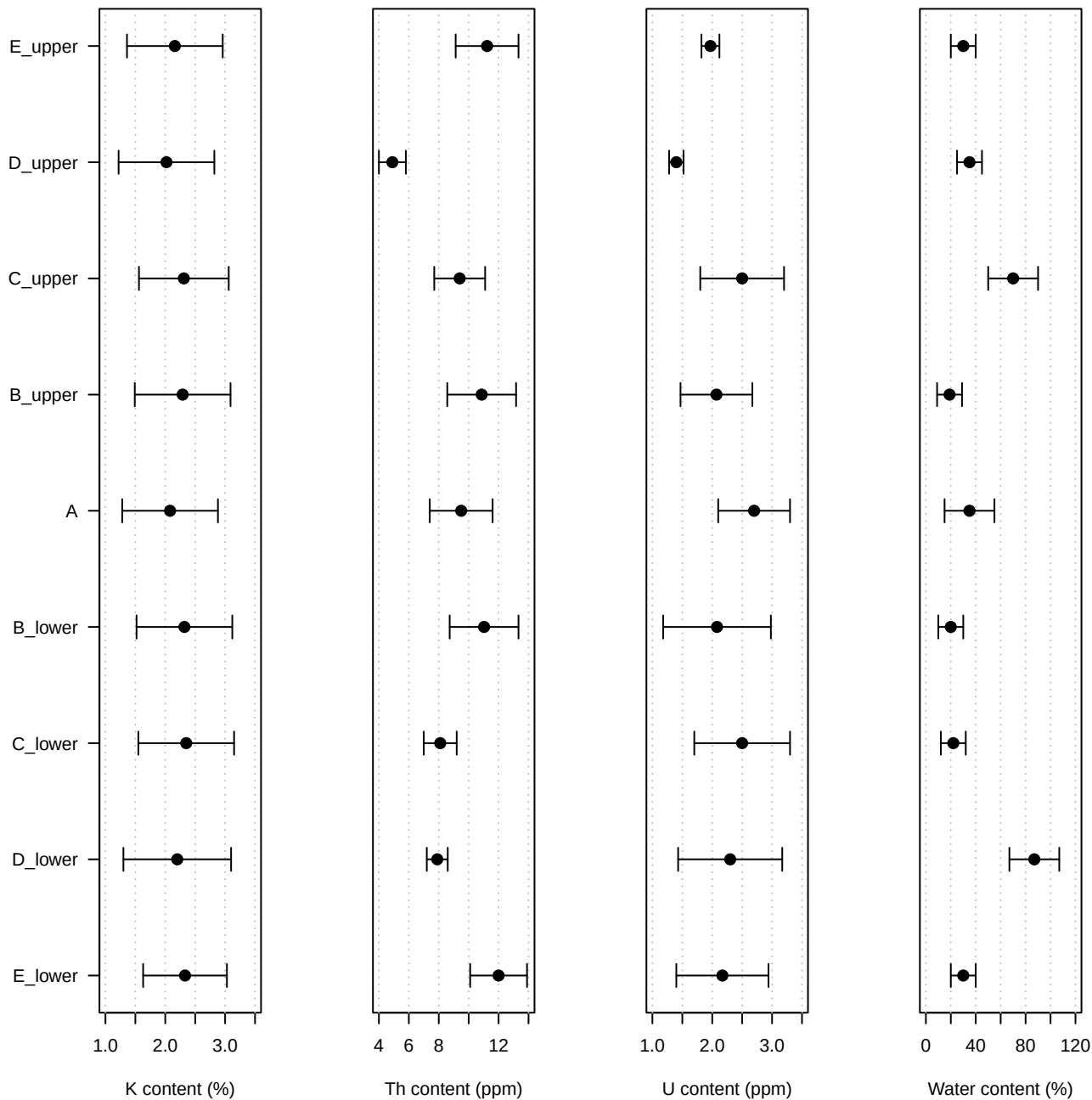


Likelihood profile: p0

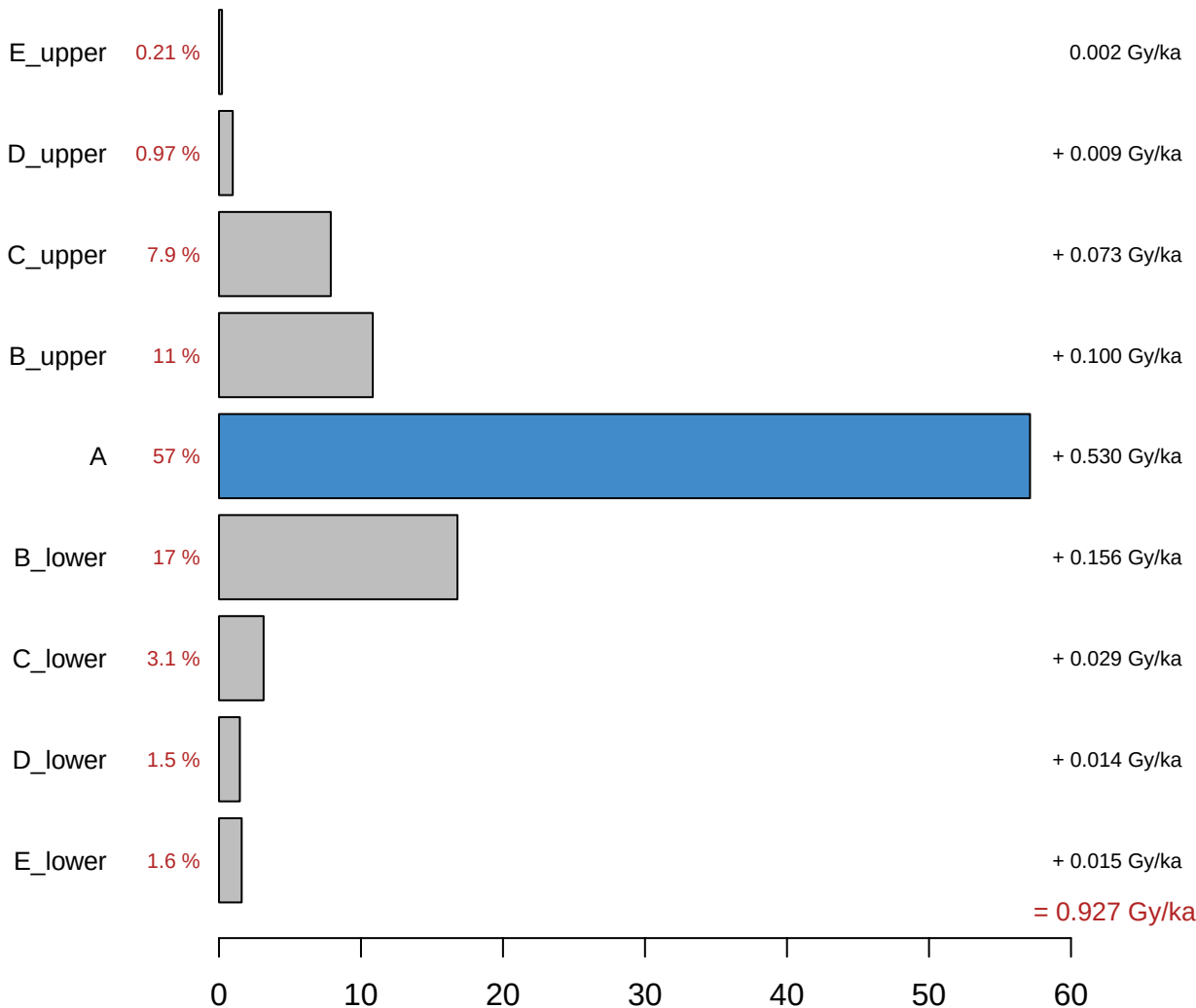


Profile structure





Contributions of each layer to the total gamma dose rate received by the sample



Contribution to total gamma dose rate (%) received by the sample

