





Fig. 4 – Bos & Wallinga (2012)





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Fig. 4 – Bos & Wallinga (2012)





Fig. 4 – Bos & Wallinga (2012)





Histogram



Histogram





Χ

LxTxData\$Dose









RLum.Data.Image



OSL (UVVIS)

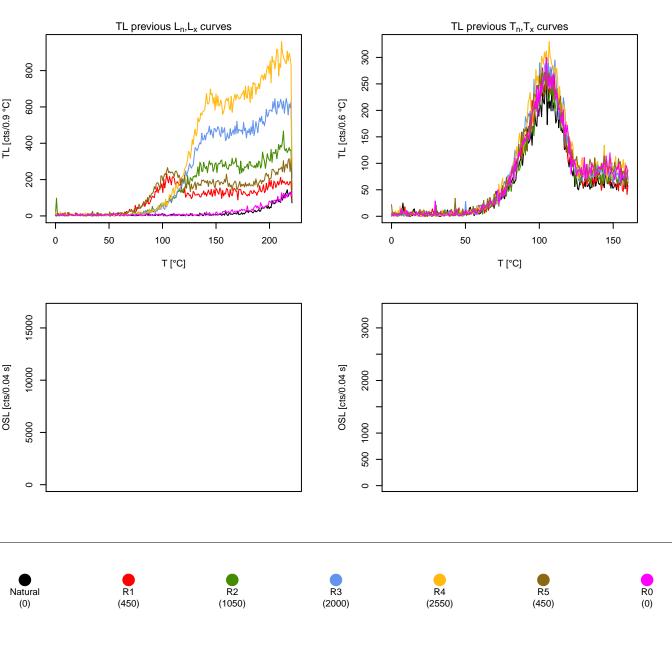


RLum.Data.Spectrum



IR-RF



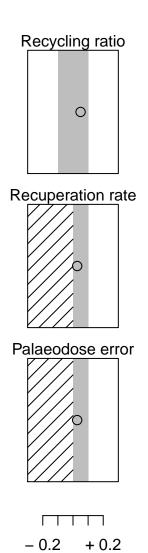


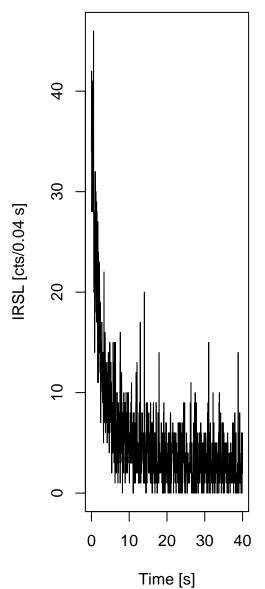
Growth curve

 $D_e = 1668.25 \pm 46.11$ | fit: EXP











Growth curve

 $D_e = 406.85 \pm 42.81$ | fit: LIN





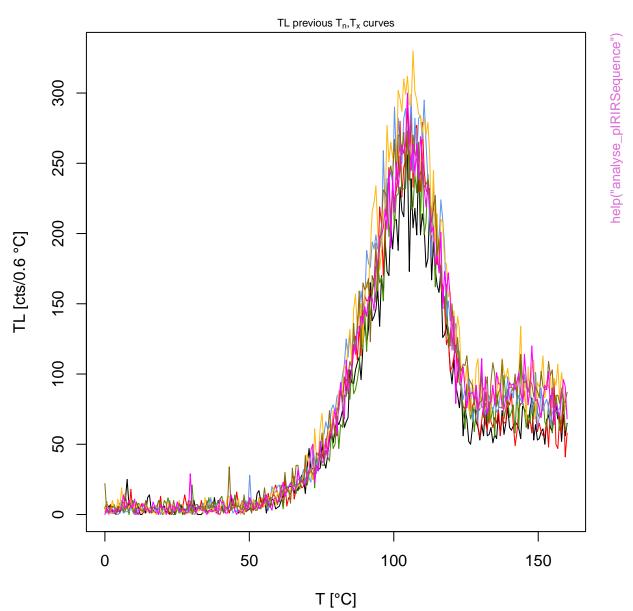
TL pseudoIRSL1 pseudoIRSL2



T [°C]

help("analyse_pIRIRSequence")









D_e from MC simulation



Test dose response







Pseudo pIRIR data set based on quartz OSL

 $D_e = 1668.25 \pm 48.13$ | fit: EXP

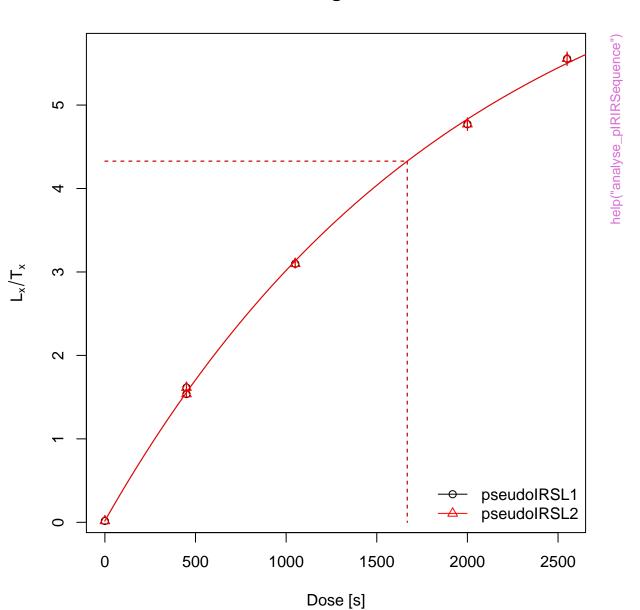


$\ensuremath{D_{e}}$ from MC simulation





Summarised growth curves



Sensitivity change



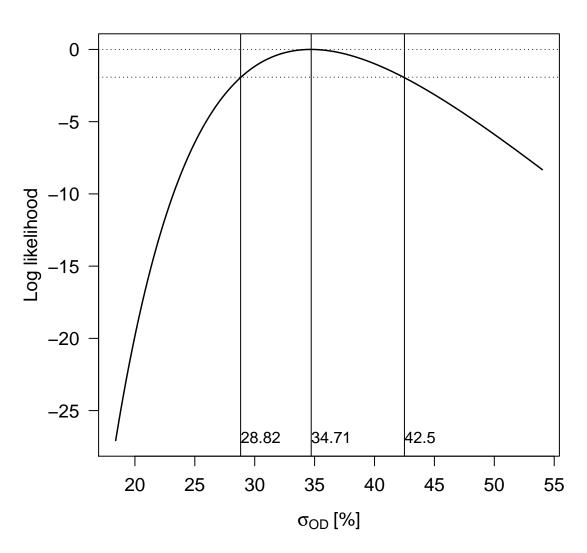
Rejection criteria



Monte Carlo Simulation



Profile log likelihood for σ_{OD}





Fuchs & Lang (2001)







Likelihood profile: gamma



Likelihood profile: p0



Likelihood profile: sigma



Likelihood profile: gamma



Likelihood profile: p0



Likelihood profile: sigma



Likelihood profile: gamma



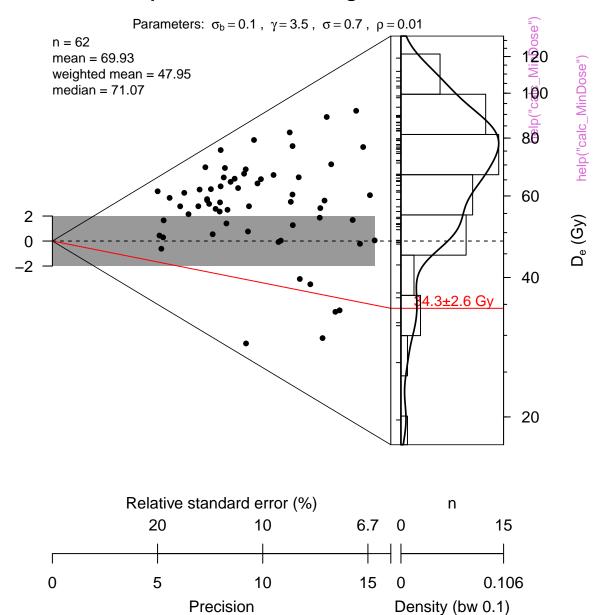
Likelihood profile: p0



Likelihood profile: sigma



3-parameter Minimum Age Model



Standardised estimate

Source Dose Rate Prediction



help("calc_SourceDoseRate")

D_{e} distribution







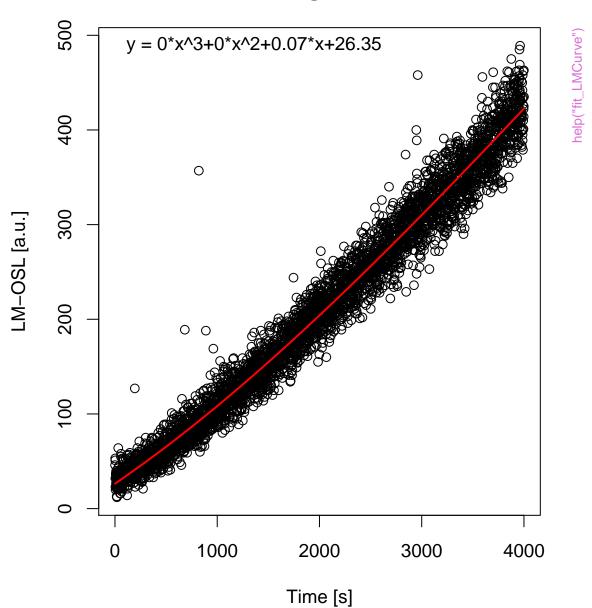








Background







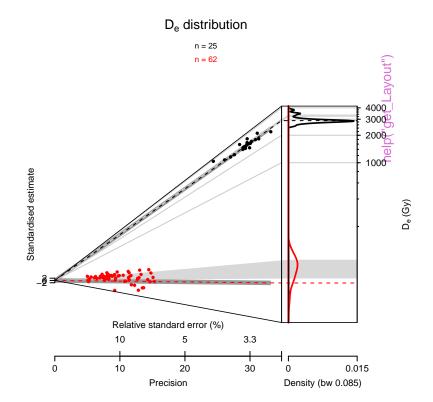












Profile log likelihood for σ_{OD}

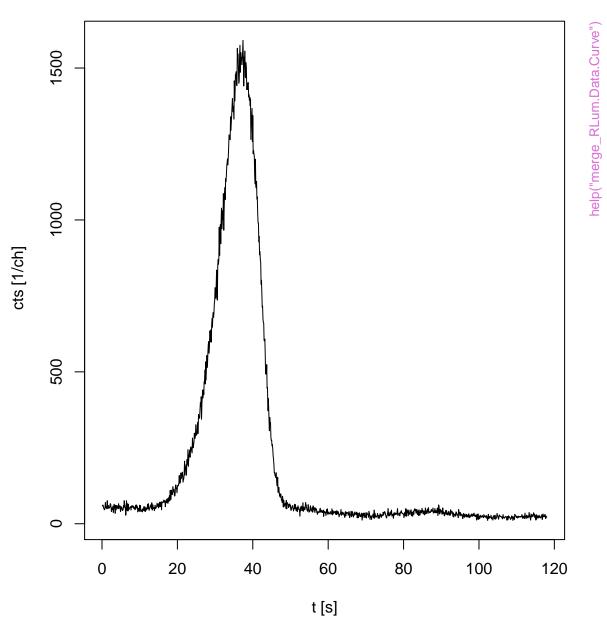


TL (UVVIS)



help("merge_RLum.Data.Curve")

TL (UVVIS)



TL (UVVIS)



Profile log likelihood for σ_{OD}



Profile log likelihood for σ_{OD}



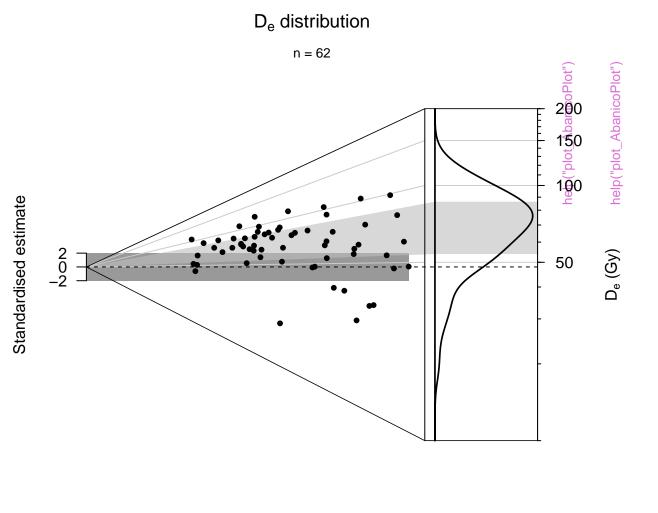


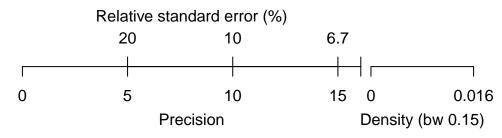


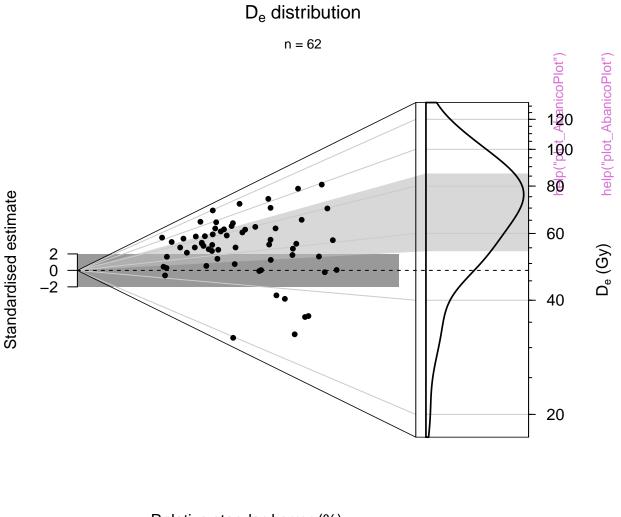


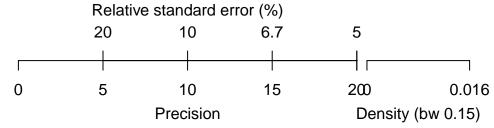


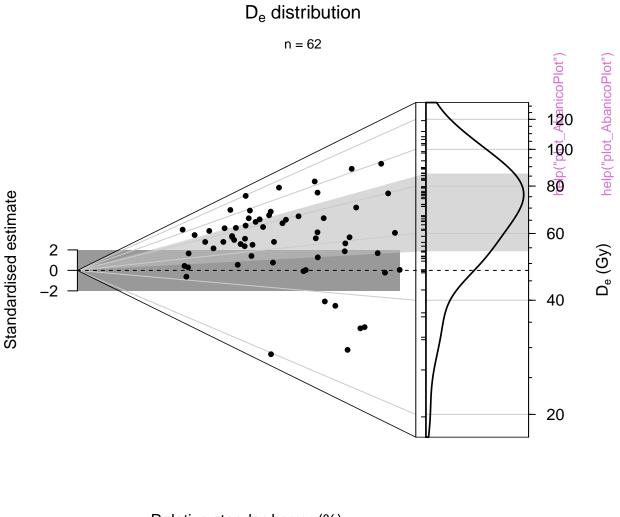


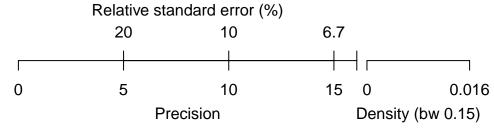


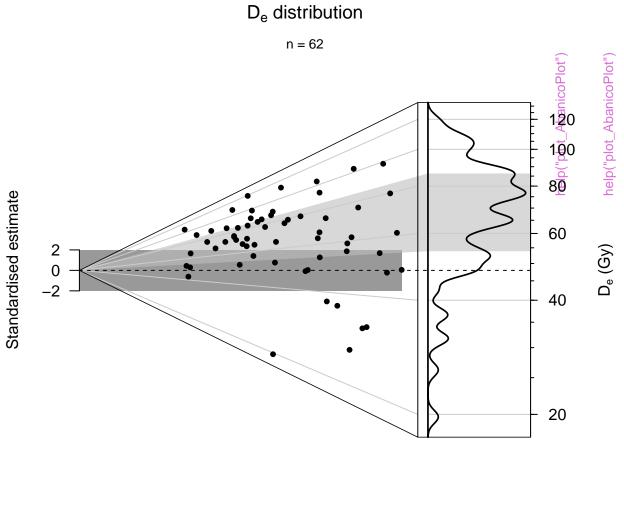


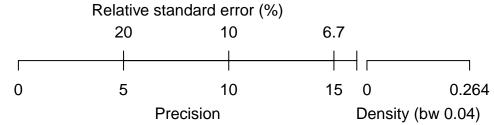


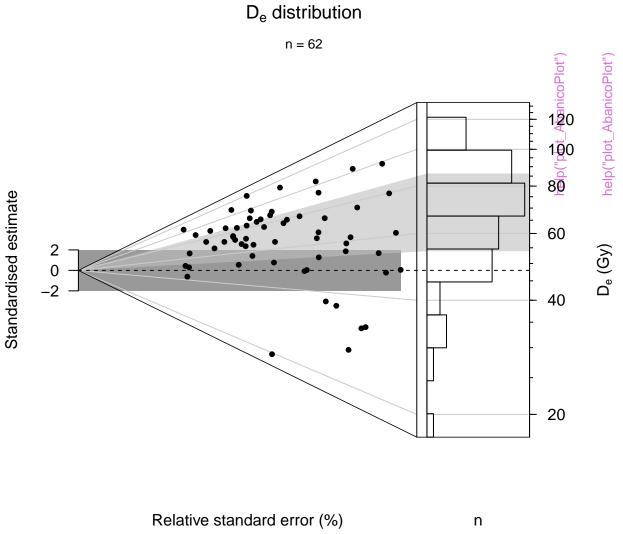


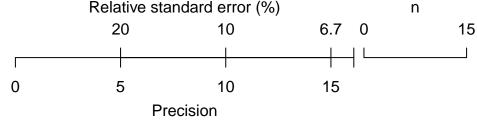


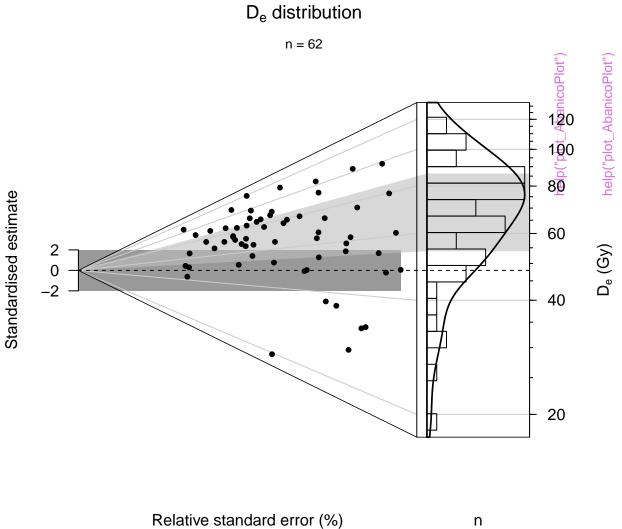


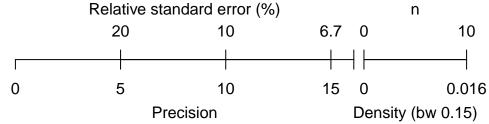


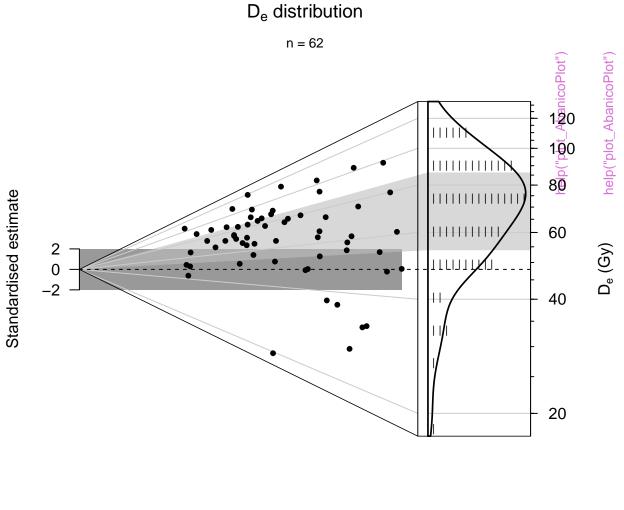


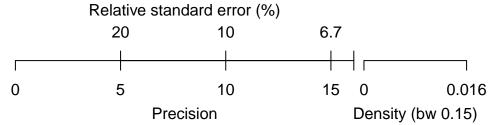


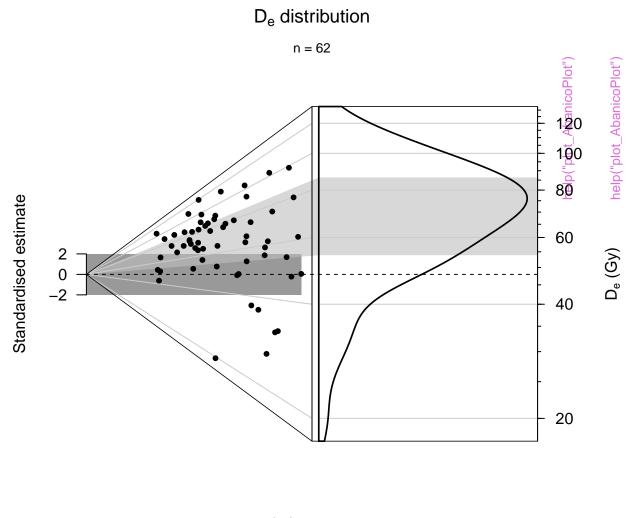


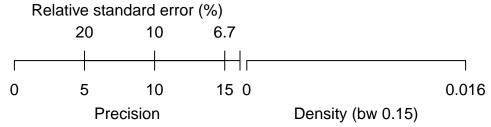






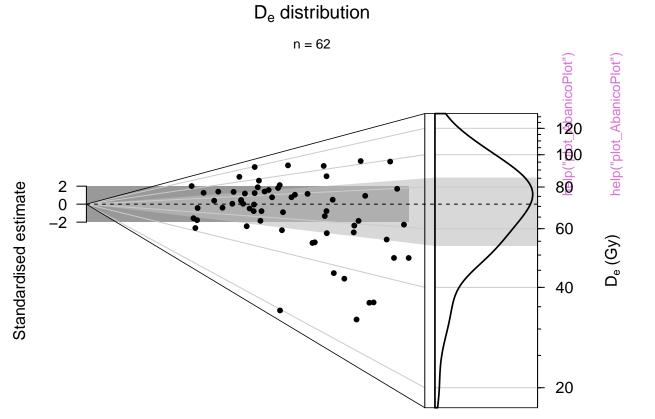




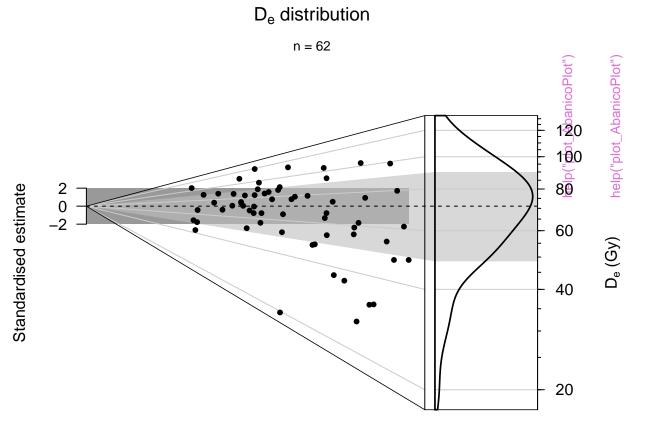


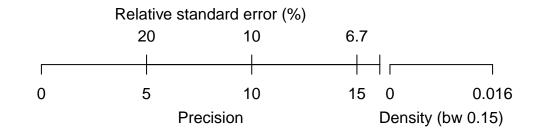


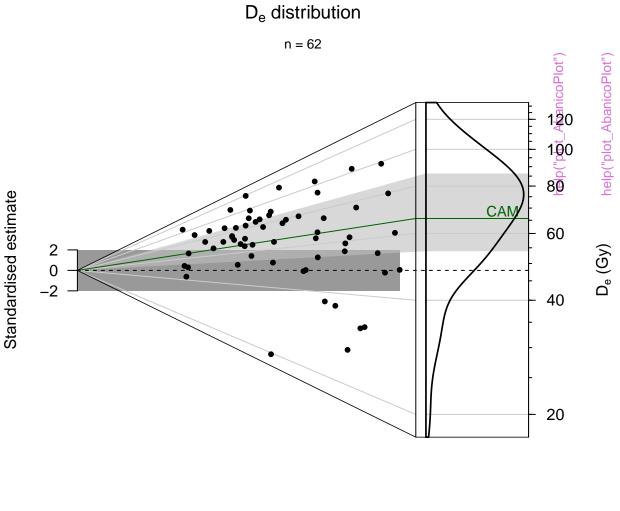


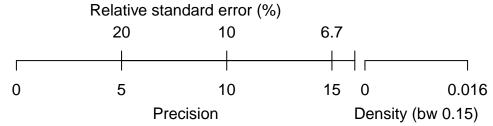




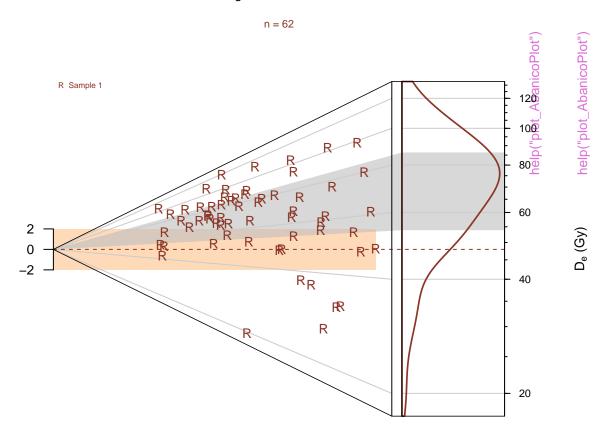




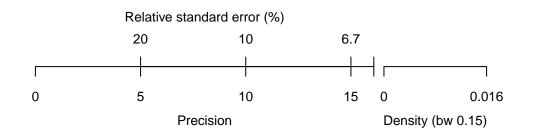


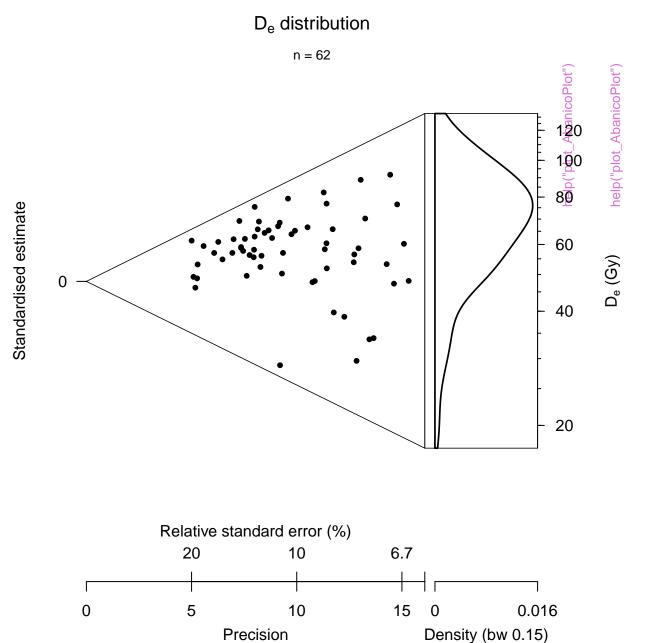


D_e distribution

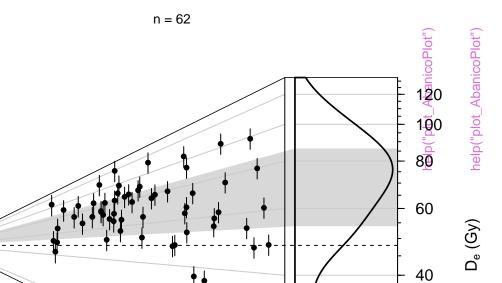


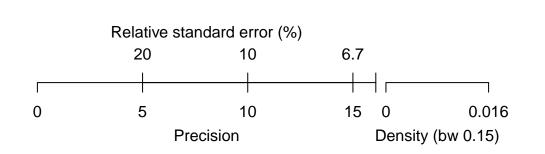
Standardised estimate

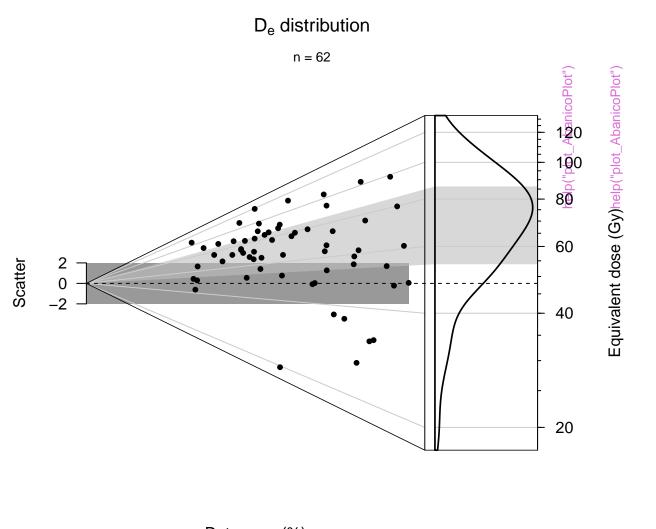


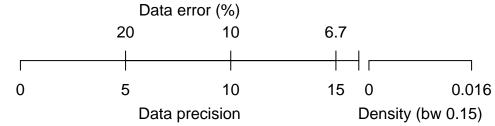


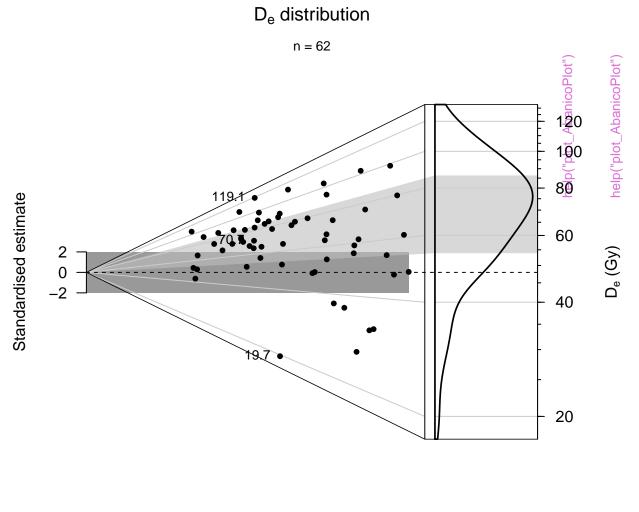
D_e distribution





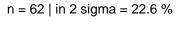


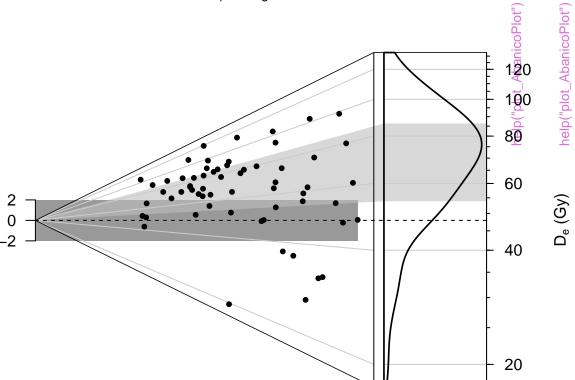




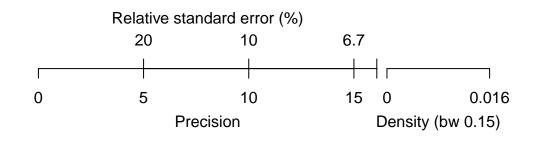


D_{e} distribution

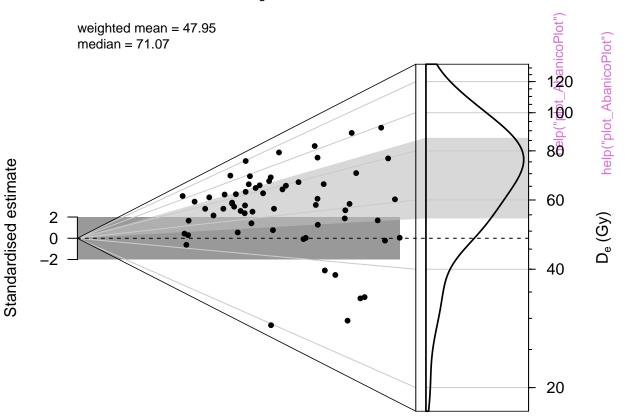




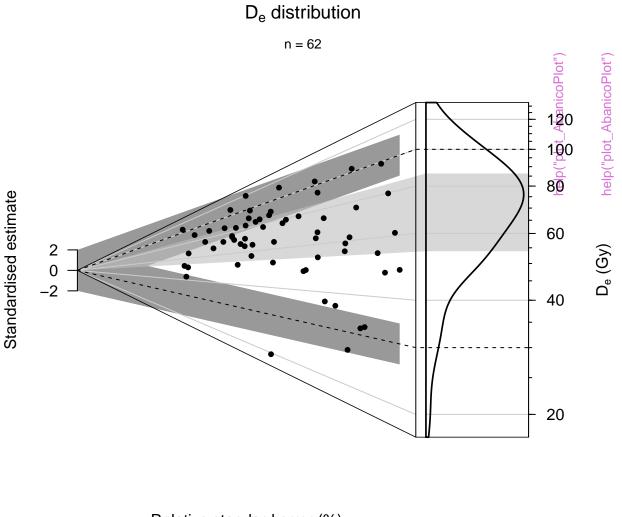
Standardised estimate

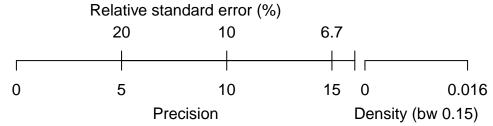


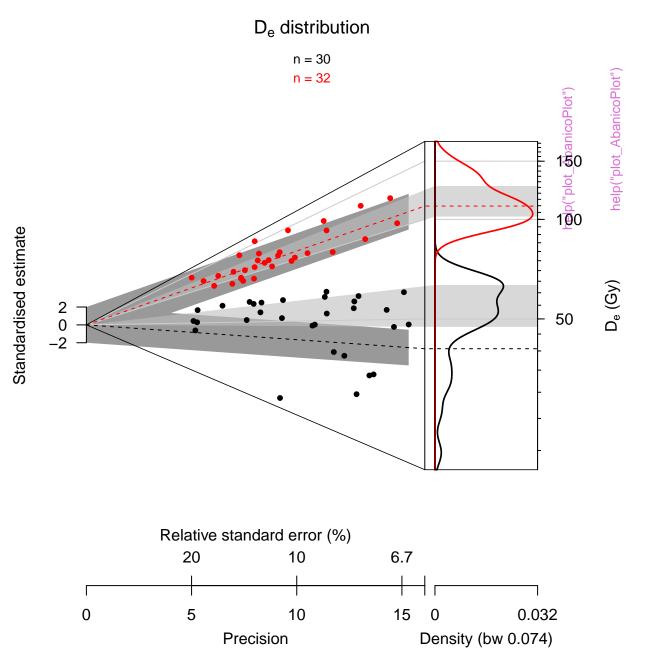
D_{e} distribution



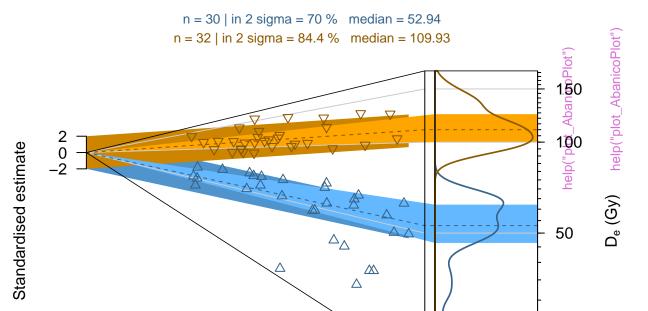


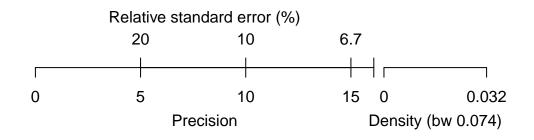


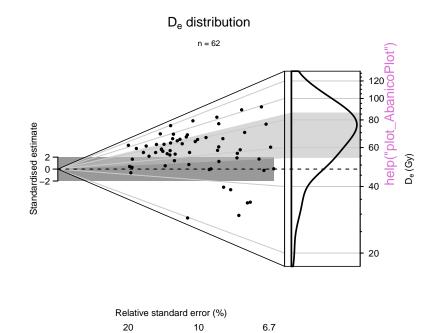




D_e distribution







10

Precision

15

0.016

Density (bw 0.15)

0

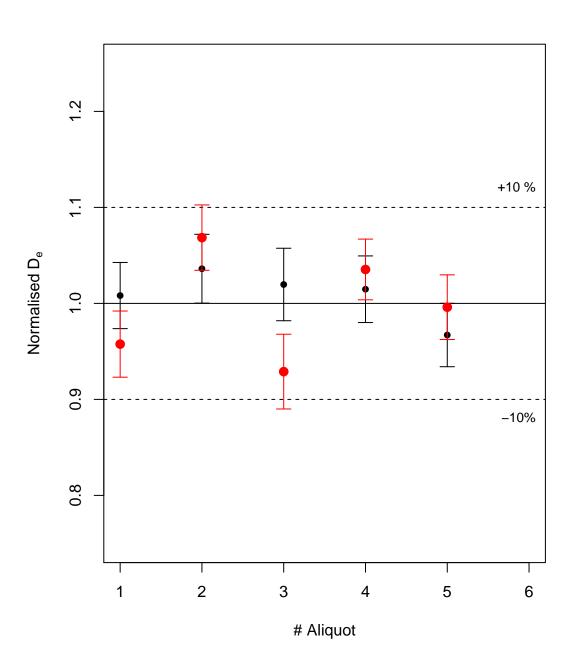
5

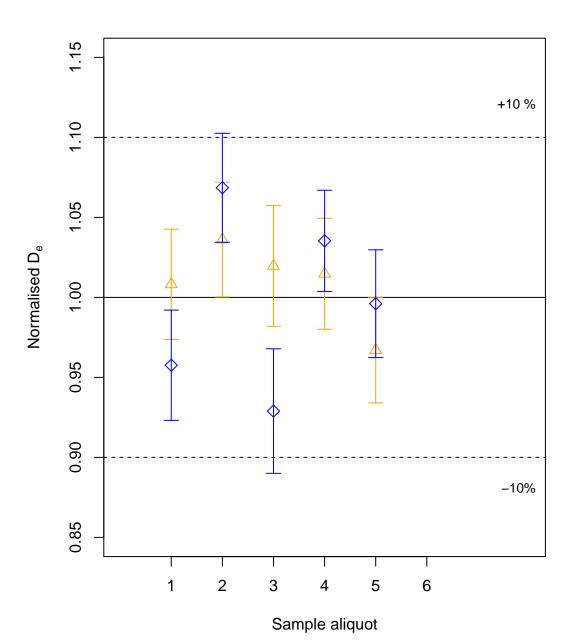


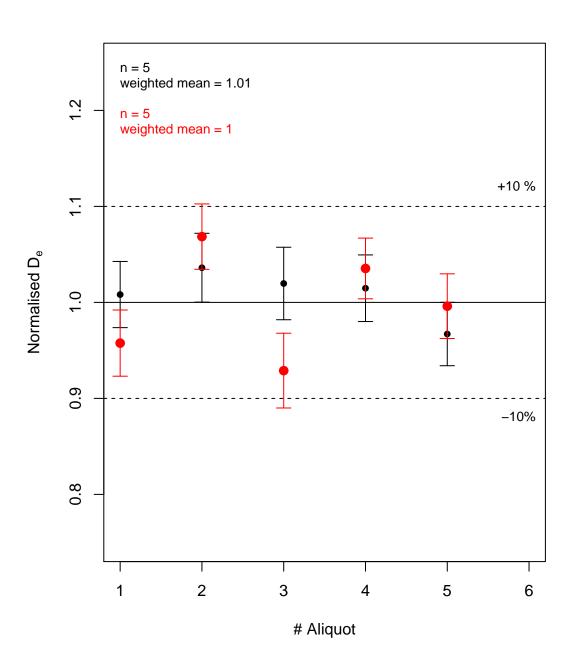
















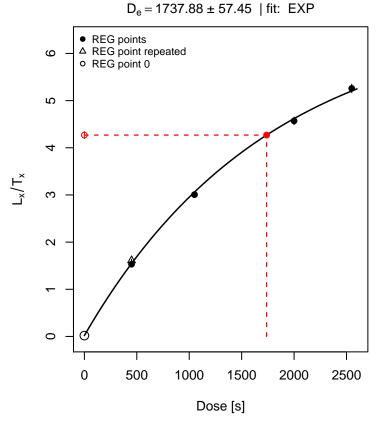
Preheat temperature [°C]

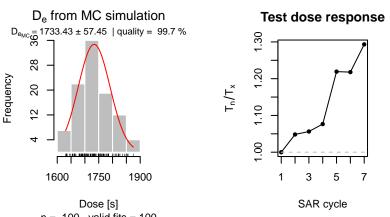




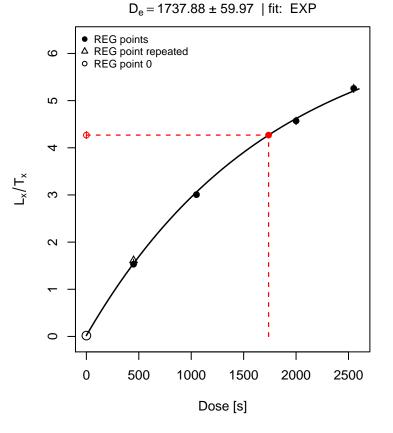


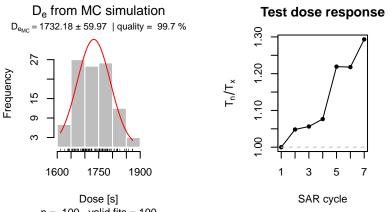
Growth curve



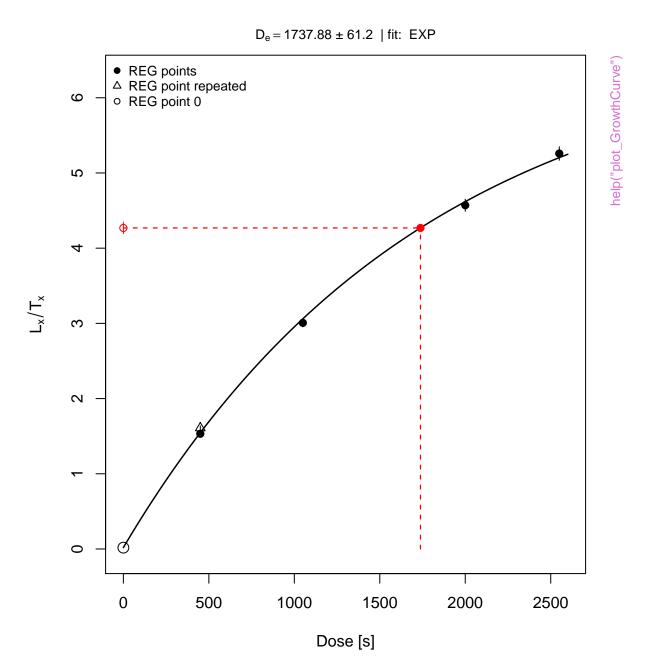


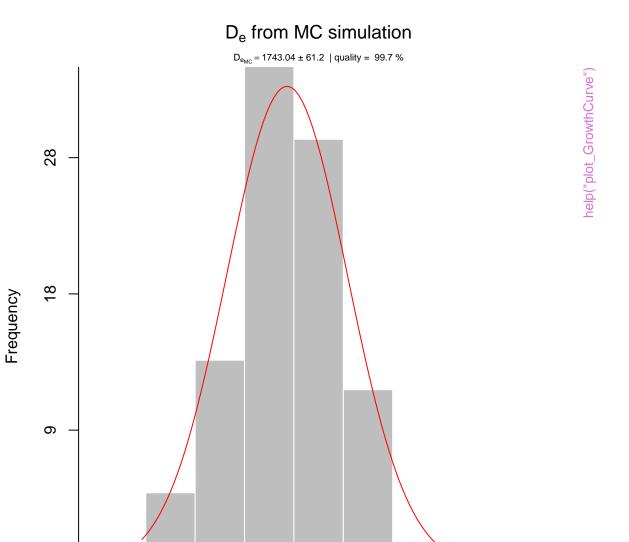
Growth curve

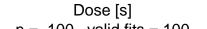




Growth curve







Test dose response



SAR cycle

Histogram



Histogram of De-values

Example data set







Dose distribution





 D_{e} distribution



 D_{e} distribution





D_{e} distribution





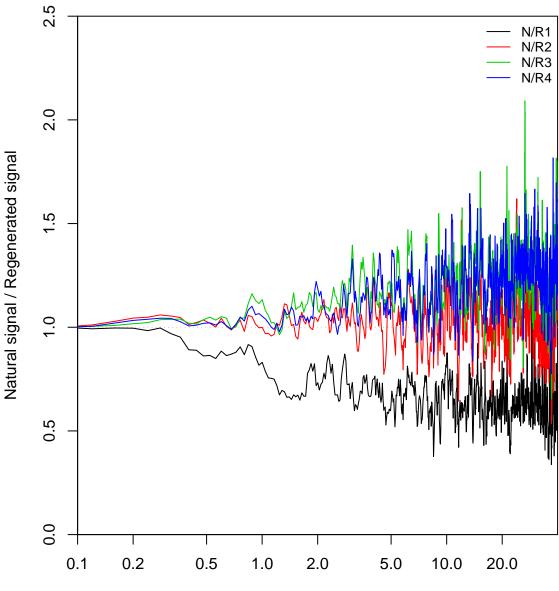
NR(t) Plot



help("plot_NRt")



NR(t) Plot help("plot_NRt")



Time [s]





Time [s]

NR(t) Plot help("plot_NRt") N/R1 N/R2 N/R3 N/R4



TnTx(t) Plot





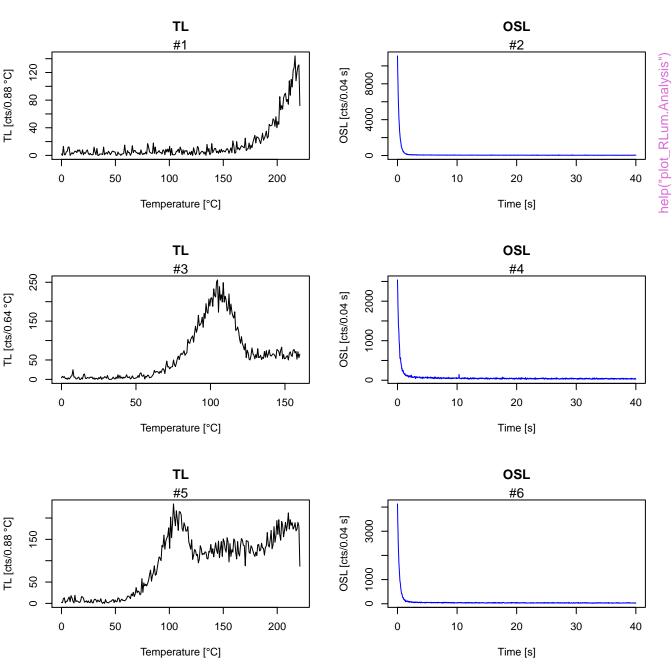


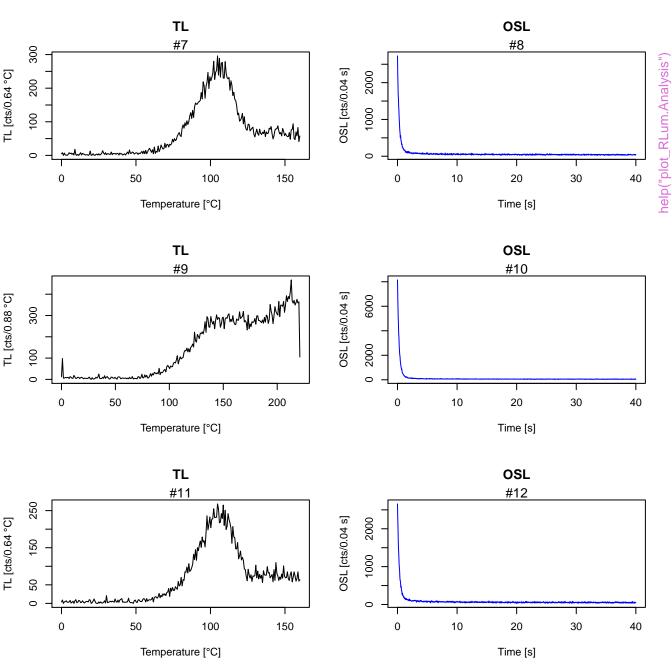


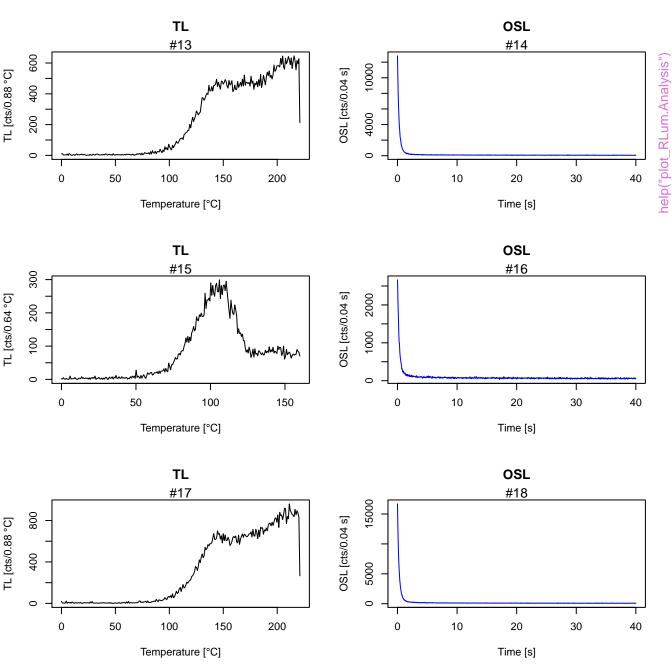


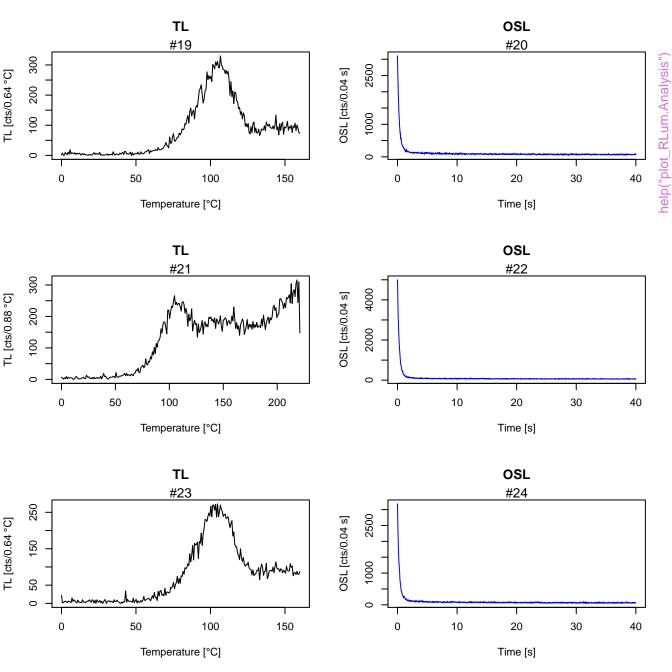


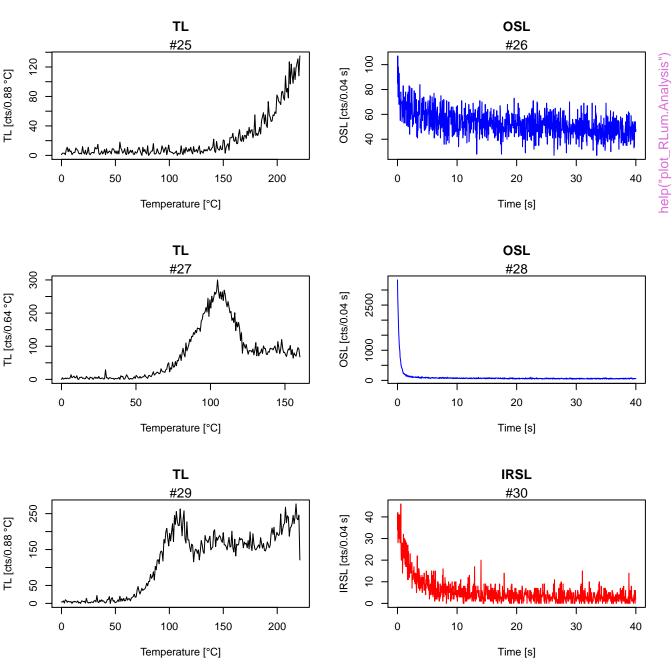




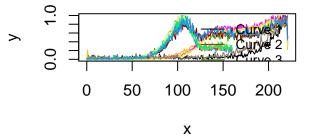








TL combined



unkown curve type



RLum.Data.Image



RLum.Data.Spectrum



help("plot_RLum.Data.Spectrum")

RLum.Data.Spectrum



unkown curve type















Precision



Precision













Precision





Data precision









D_e distribution







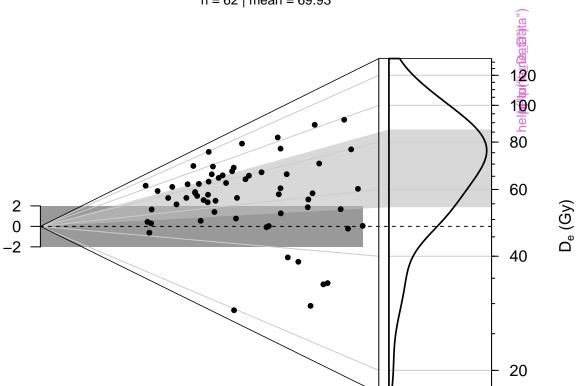






Density

D_e distribution n = 62 | mean = 69.93



Standardised estimate

