Sensitivity−corrected OSL

Regenerative dose (Gy|s)

Photon counts

- Ln decay curve
- Tn decay curve

Stimulation time (s)

Tx/Tn

SAR Cycle

ID: [NO=1, Position=1, Grain=0]
=========================
Status: OK
=========================
Tn: 8983 +/− 206.41
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 11.04 +/− 0.39
RSE of Tn: 2.3 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 1.05 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 10.27 +/− 0.54 (%)
Recuperation 2: 5.42 +/− 0.28 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 1.19
Average error in fit: 0.01
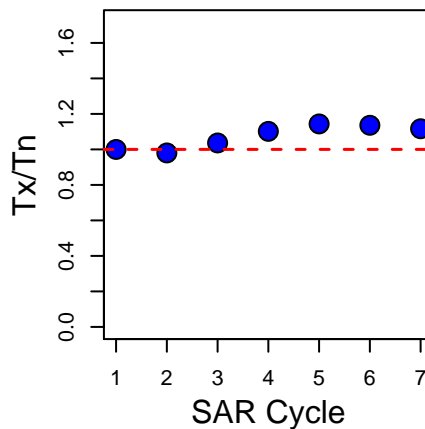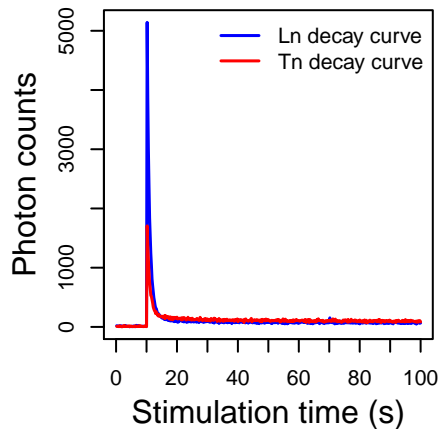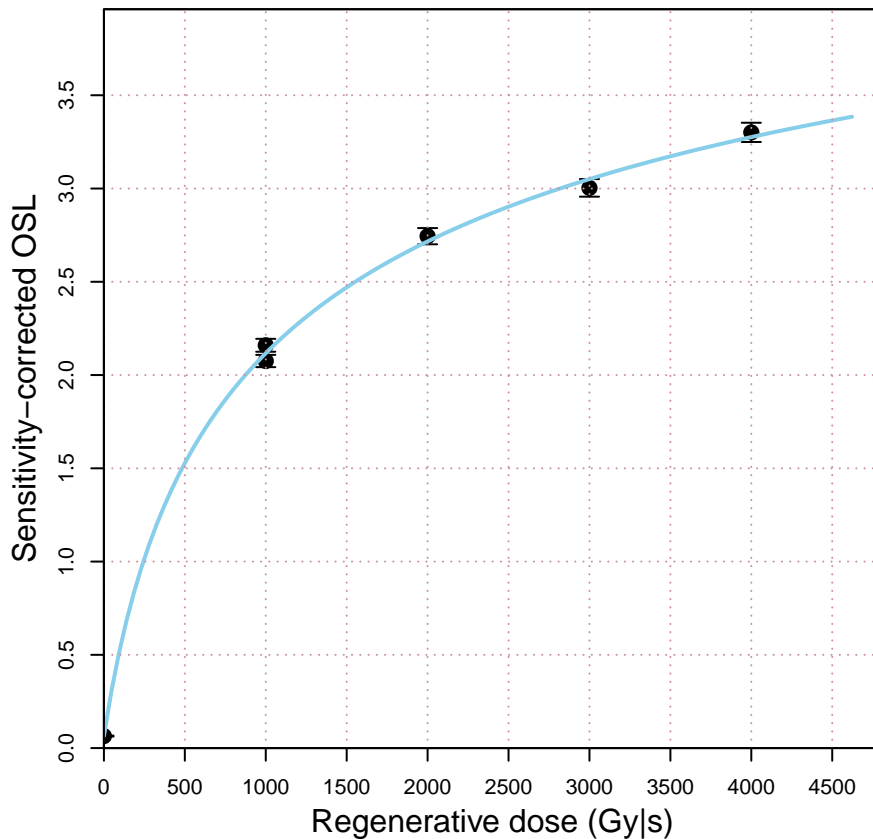Reduced Chi−Square: 1.19
Figure Of Merit: 0.94 (%)
=========================
a=31 +/− 370
b=9.1e−05 +/− 0.0011
c=17 +/− 240
d=0.19 +/− 0.0062
e=NULL

Summary

ID: [NO=2, Position=3, Grain=0]
========================
Status: OK
========================
Tn: 7495 +/− 177.23
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 8.78 +/− 0.3
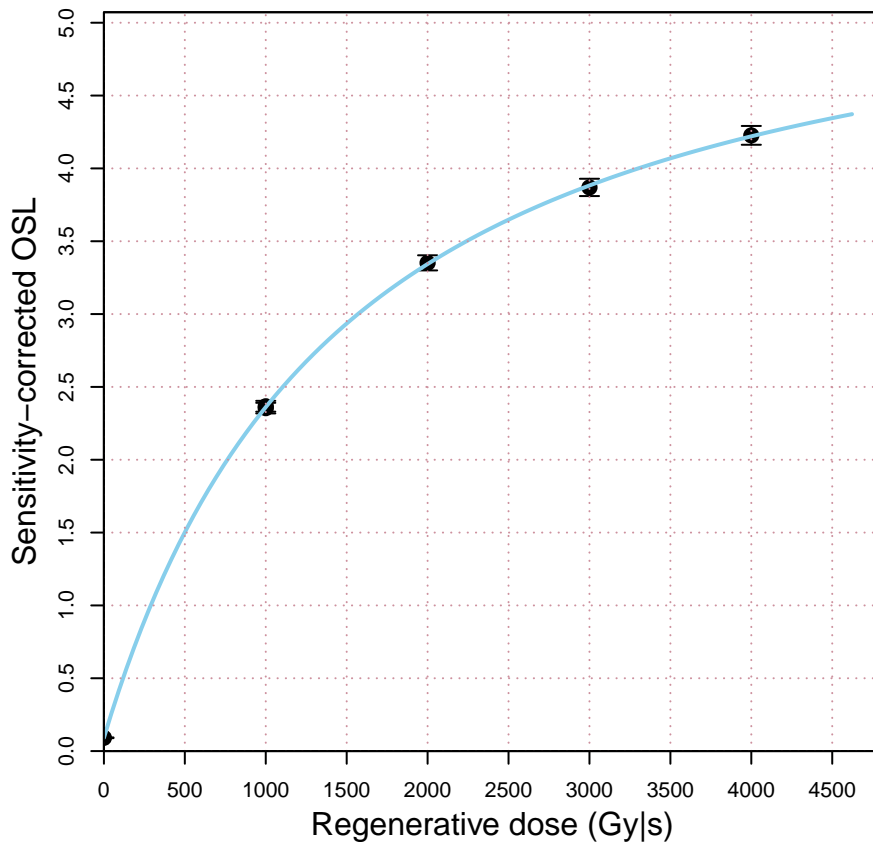RSE of Tn: 2.36 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 0.96 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 2.31 +/− 0.2 (%)
Recuperation 2: 1.95 +/− 0.17 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 1.19
Average error in fit: 0.01
Reduced Chi−Square: 1.19
Figure Of Merit: 1.38 (%)
========================
a=6.3 +/− 9.7
b=0.00091 +/− 0.00086
c=3.7 +/− 11
d=0.064 +/− 0.0039
e=NULL

Summary

ID: [NO=3, Position=5, Grain=0]
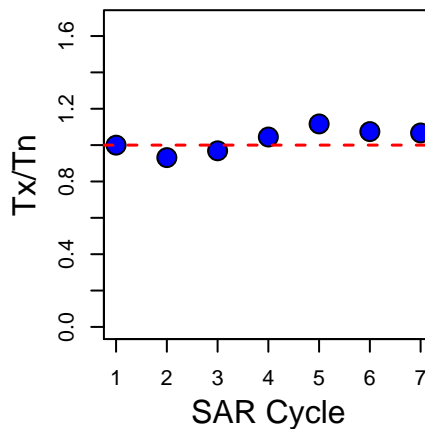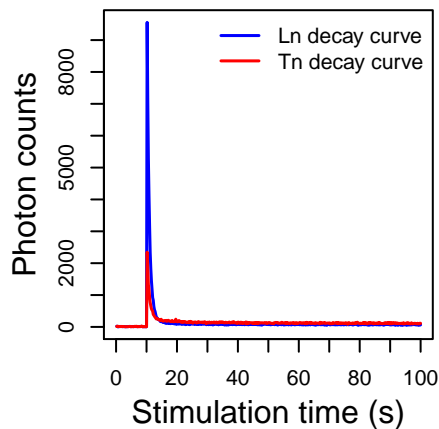=========================
Status: OK
=========================
Tn: 9590.5 +/− 219.06
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 9.97 +/− 0.32
RSE of Tn: 2.28 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 0.99 +/− 0.04
Recycling ratio 2: NA +/− NA
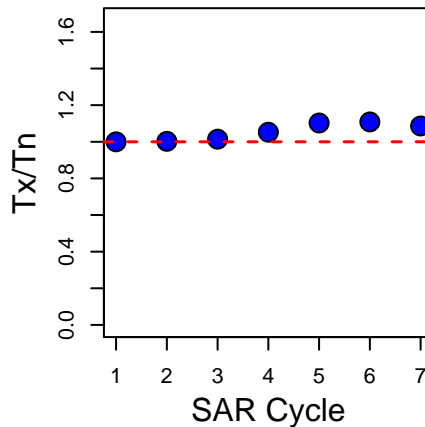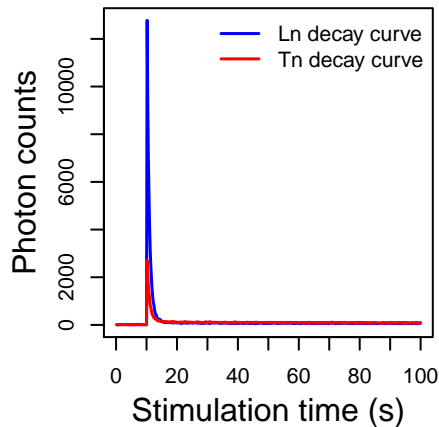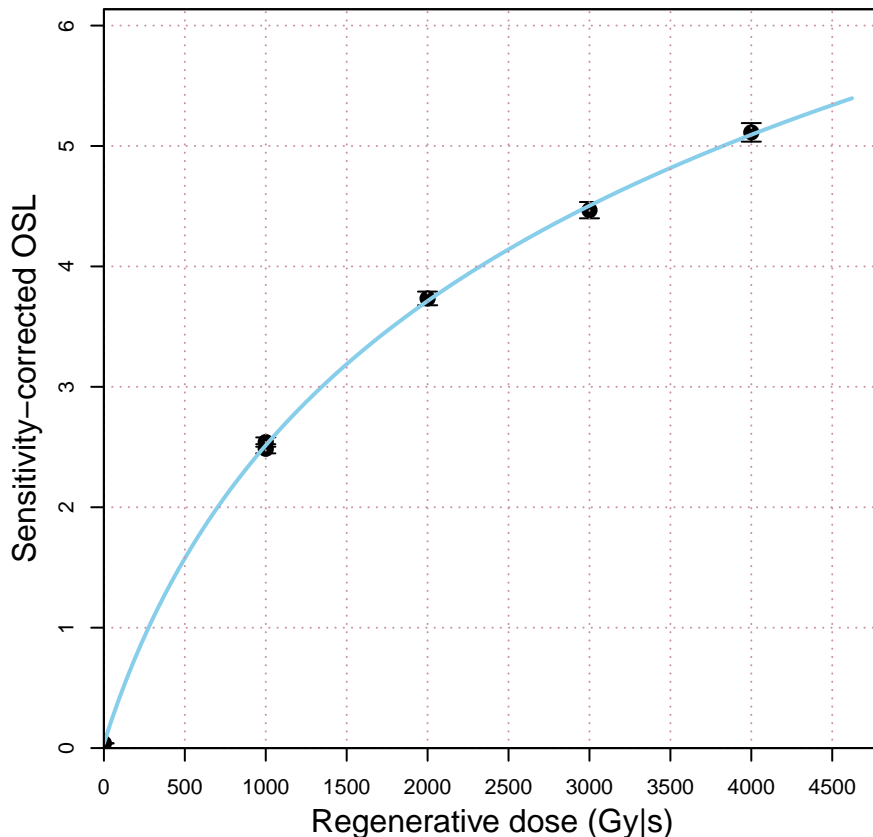Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 2.41 +/− 0.15 (%)
Recuperation 2: 2.16 +/− 0.14 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.04
Average error in fit: 0
Reduced Chi−Square: 0.04
Figure Of Merit: 0.25 (%)
=========================
a=5.4 +/− 0.39
b=0.00068 +/− 2.9e−05
c=0.84 +/− 0.26
d=0.091 +/− 0.00069
e=NULL

Summary

Summary

ID: [NO=5, Position=9, Grain=0]
========================
Status: OK
========================
Tn: 10226.5 +/− 230.77
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 13.82 +/− 0.51
RSE of Tn: 2.26 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 0.97 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 0.98 +/− 0.11 (%)
Recuperation 2: 0.78 +/− 0.09 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 1.11
Average error in fit: 0.02
Reduced Chi−Square: 1.11
Figure Of Merit: 1.35 (%)
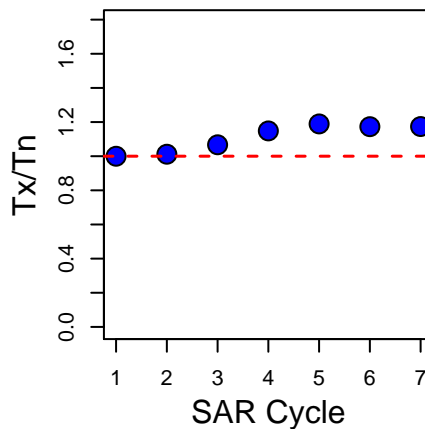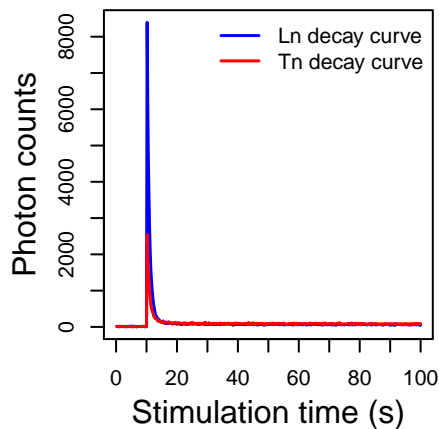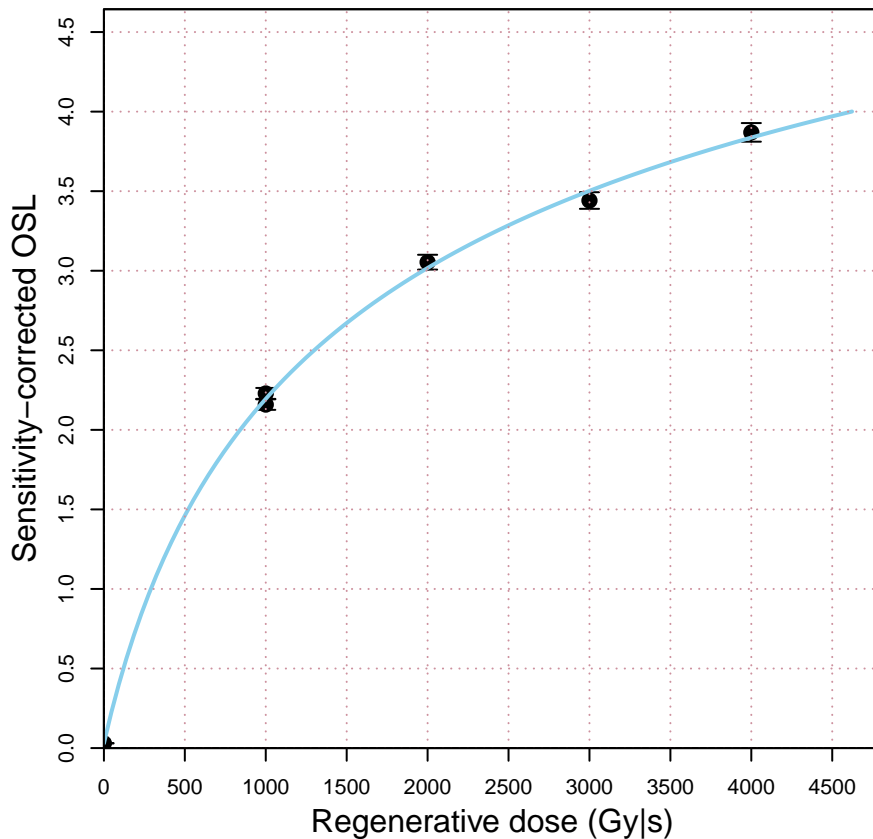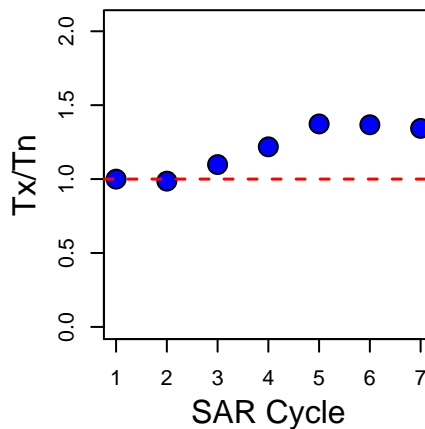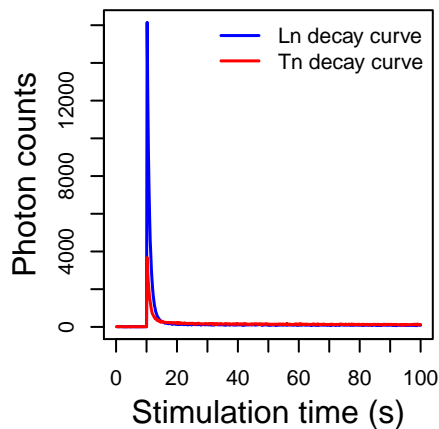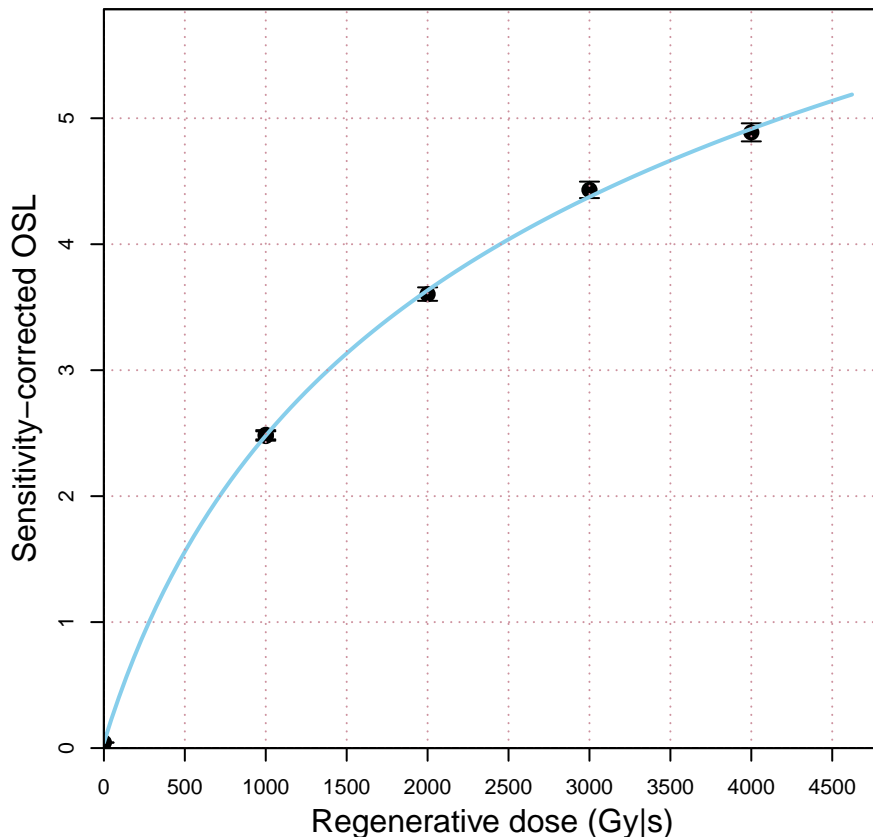========================
a=8.5 +/− 14
b=0.00053 +/− 0.00067
c=3.6 +/− 10
d=0.03 +/− 0.0024
e=NULL

Summary

ID: [NO=6, Position=11, Grain=0]
=========================
Status: OK
=========================
Tn: 15896.5 +/− 344.75
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 13.71 +/− 0.4
RSE of Tn: 2.17 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 1 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 1.05 +/− 0.07 (%)
Recuperation 2: 0.9 +/− 0.06 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.31
Average error in fit: 0.01
Reduced Chi−Square: 0.31
Figure Of Merit: 0.69 (%)
=========================
a=19 +/− 35
b=0.00022 +/− 0.00038
c=6.3 +/− 16
d=0.044 +/− 0.001
e=NULL

Summary

ID: [NO=7, Position=13, Grain=0]
=========================
Status: OK
=========================
Tn: 7038.5 +/− 167.61
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 9.53 +/− 0.35
RSE of Tn: 2.38 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 1.02 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 3.05 +/− 0.23 (%)
Recuperation 2: 2.34 +/− 0.18 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.55
Average error in fit: 0.01
Reduced Chi−Square: 0.55
Figure Of Merit: 0.85 (%)
=========================
a=4300000 +/− 2.3e+07
b=1.3e−09 +/− 7.4e−09
c=4e+06 +/− 2.1e+07
d=0.078 +/− 0.0028
e=NULL

Summary

ID: [NO=8, Position=15, Grain=0]
==========================
Status: OK
==========================
Tn: 7050.5 +/− 167.09
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 11.72 +/− 0.48
RSE of Tn: 2.37 (%)
Fast ratio of Tn: NA +/− NA
==========================
Recycling ratio 1: 0.99 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
==========================
Recuperation 1: 2.28 +/− 0.18 (%)
Recuperation 2: 1.68 +/− 0.13 (%)
==========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.12
Average error in fit: 0.01
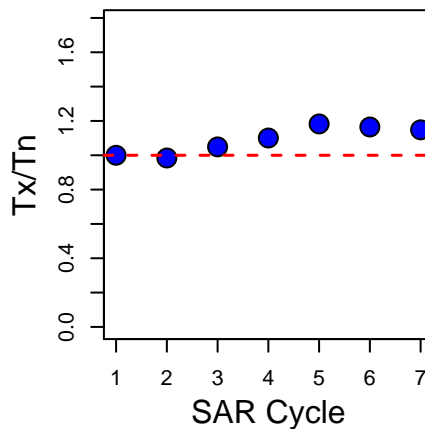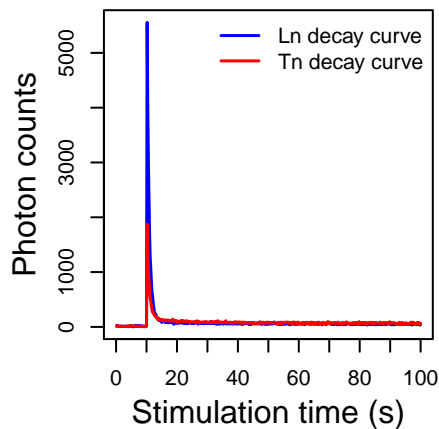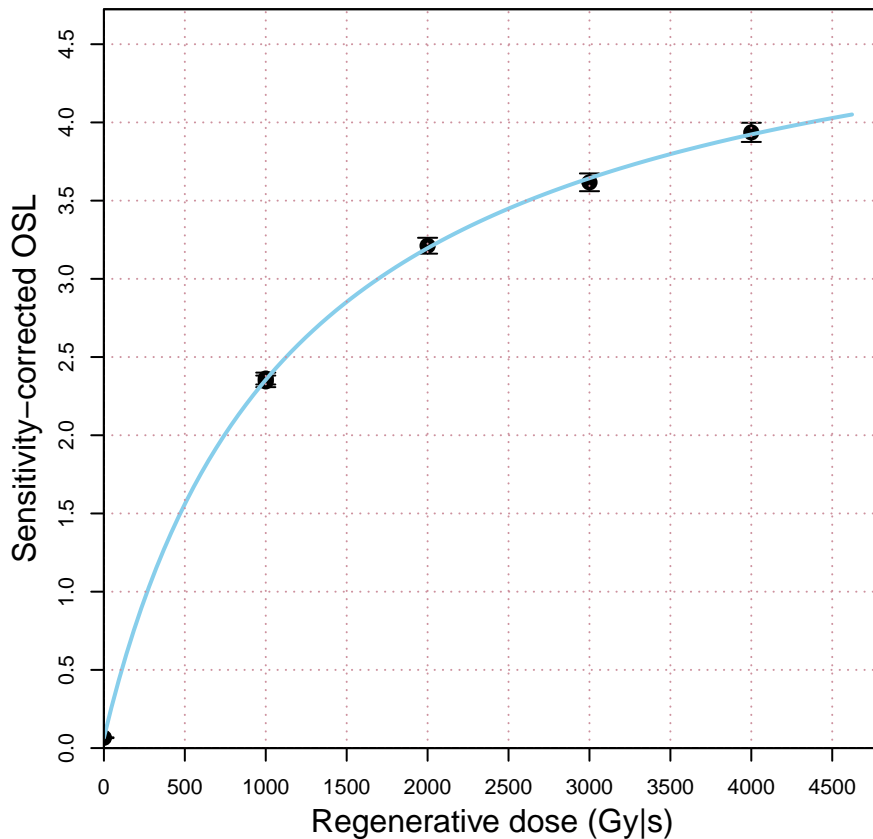Reduced Chi−Square: 0.12
Figure Of Merit: 0.47 (%)
==========================
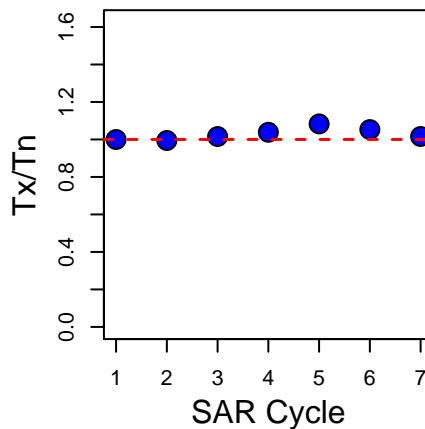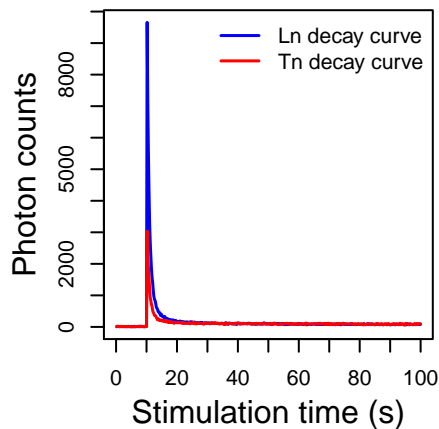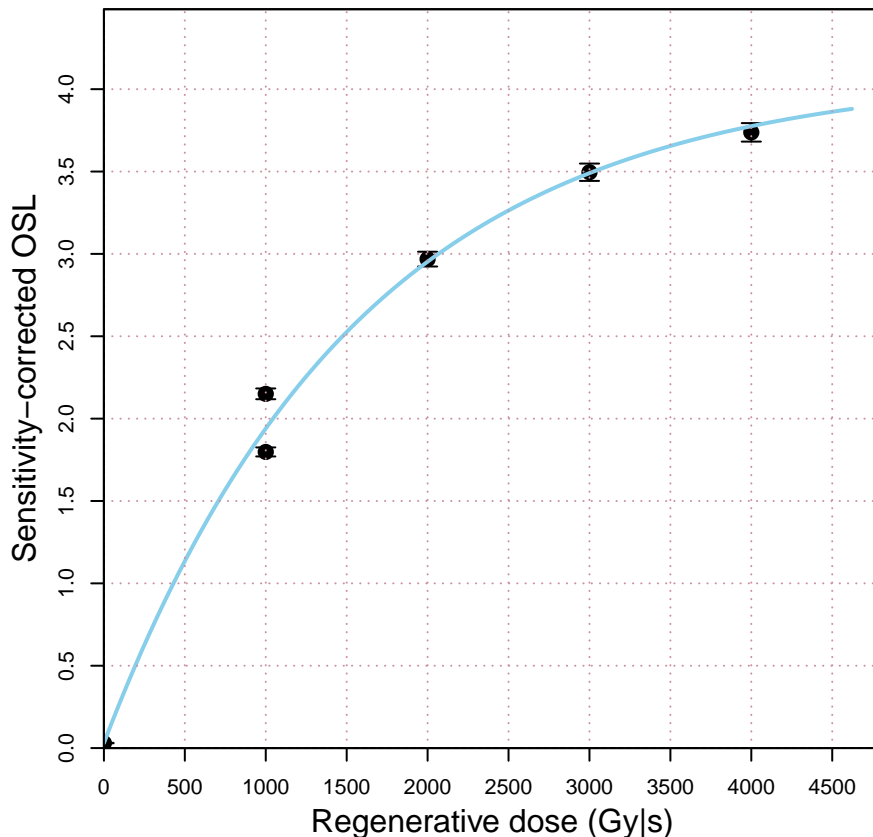a=5.2 +/− 0.79
b=0.00083 +/− 6.3e−05
c=1.2 +/− 0.65
d=0.066 +/− 0.0012
e=NULL

Summary

ID: [NO=9, Position=17, Grain=0]
=========================
Status: OK
=========================
Tn: 12779 +/− 281.79
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 15.65 +/− 0.55
RSE of Tn: 2.21 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 0.84 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 0.99 +/− 0.1 (%)
Recuperation 2: 0.81 +/− 0.08 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 17.22
Average error in fit: 0.04
Reduced Chi−Square: 17.22
Figure Of Merit: 2.91 (%)
=========================
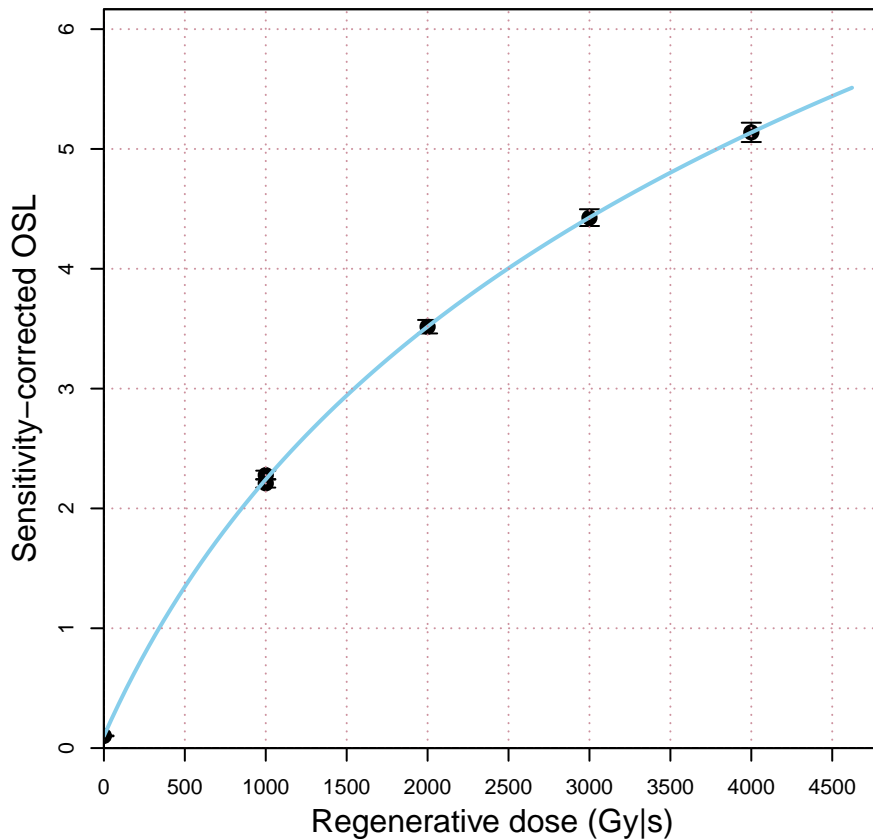a=4.1 +/− 0.99
b=0.00063 +/− 0.00024
c=0.00022 +/− 0.4
d=0.03 +/− 0.0088
e=NULL

Summary

Plot axes and labels:
- Top plot: Sensitivity−corrected OSL (y-axis) vs Regenerative dose (Gy|s) (x-axis)
- Bottom left plot: Photon counts (y-axis) vs Stimulation time (s) (x-axis)
  - Ln decay curve
  - Tn decay curve
- Bottom middle plot: Tx/Tn (y-axis) vs SAR Cycle (x-axis)

ID: [NO=10, Position=19, Grain=0]
========================
Status: OK
========================
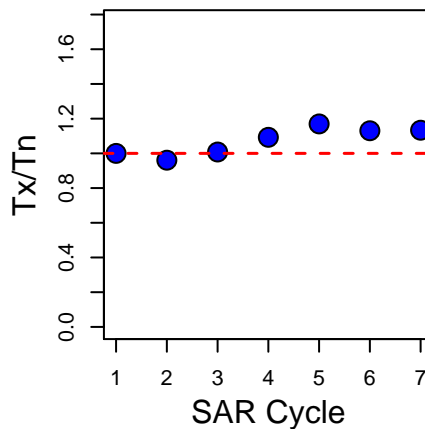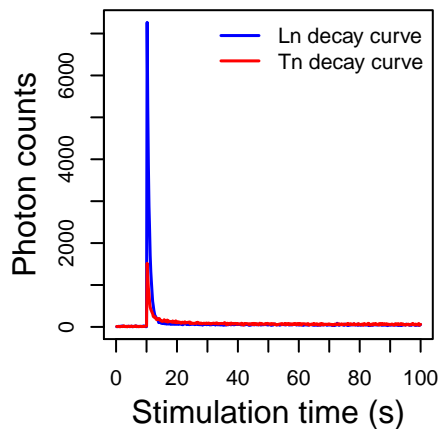Tn: 6376.5 +/− 153.34
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 11.95 +/− 0.52
RSE of Tn: 2.4 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 0.97 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
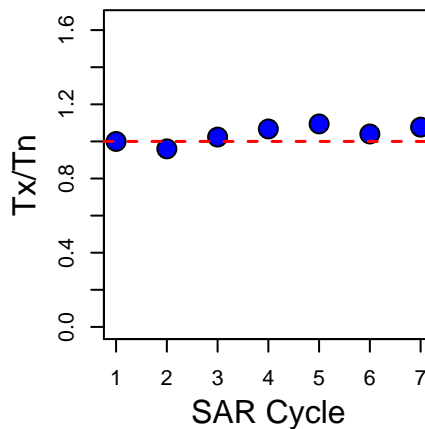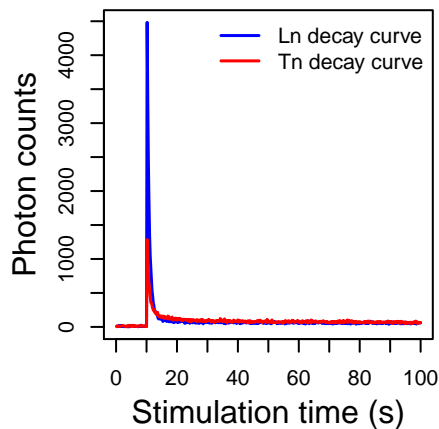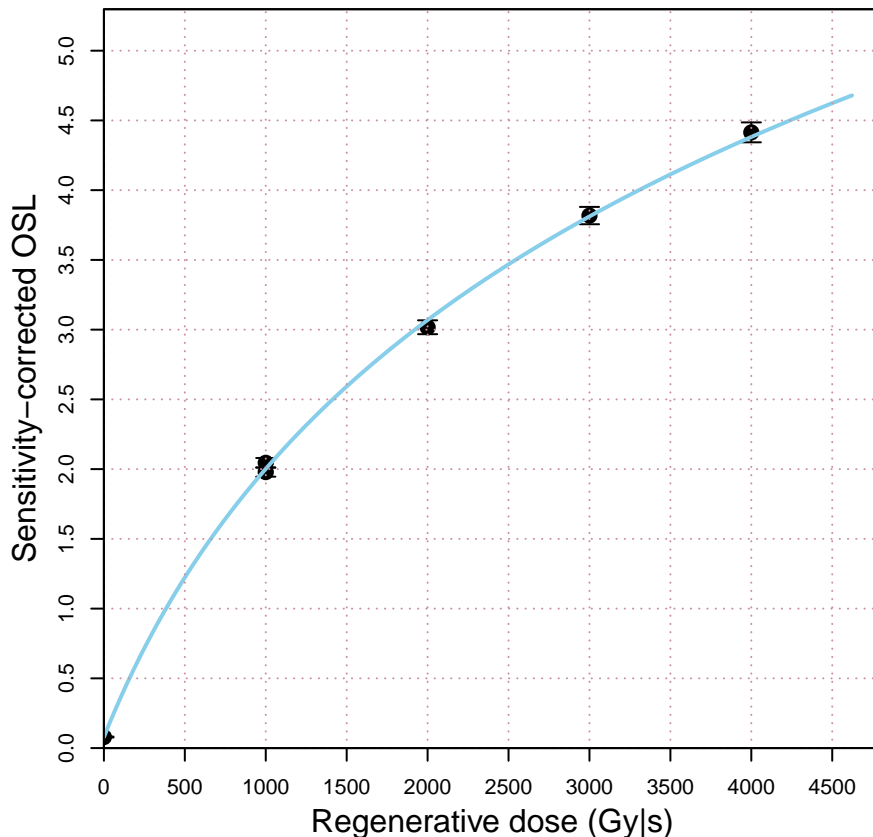========================
Recuperation 1: 2.43 +/− 0.17 (%)
Recuperation 2: 1.98 +/− 0.14 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.45
Average error in fit: 0.01
Reduced Chi−Square: 0.45
Figure Of Merit: 0.4 (%)
========================
a=9600000 +/− 1.2e+07
b=3.2e−10 +/− 4e−10
c=3e+06 +/− 4e+06
d=0.1 +/− 0.0029
e=NULL

Summary

Summary

ID: [NO=11, Position=21, Grain=0]
===========================
Status: OK
===========================
Tn: 5366.5 +/− 133.59
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 9.39 +/− 0.39
RSE of Tn: 2.49 (%)
Fast ratio of Tn: NA +/− NA
===========================
Recycling ratio 1: 0.97 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
===========================
Recuperation 1: 2.58 +/− 0.24 (%)
Recuperation 2: 1.79 +/− 0.17 (%)
===========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.85
Average error in fit: 0.01
Reduced Chi−Square: 0.85
Figure Of Merit: 1.03 (%)
===========================
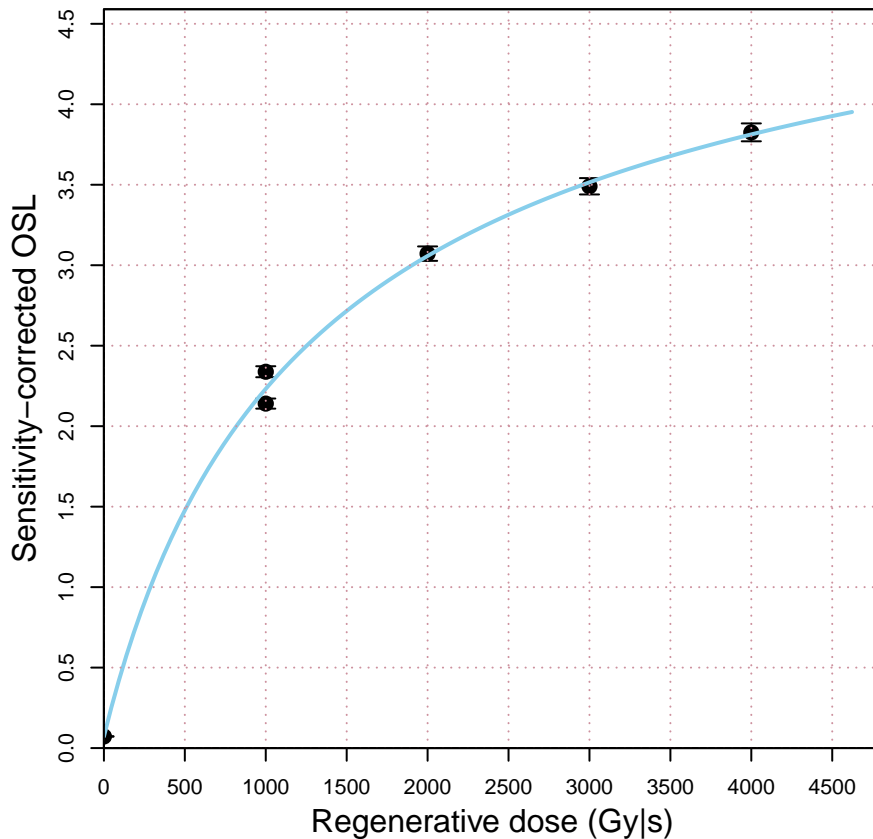a=4700000 +/− 1.8e+07
b=6.1e−10 +/− 2.4e−09
c=1900000 +/− 7200000
d=0.079 +/− 0.0046
e=NULL

ID: [NO=12, Position=23, Grain=0]
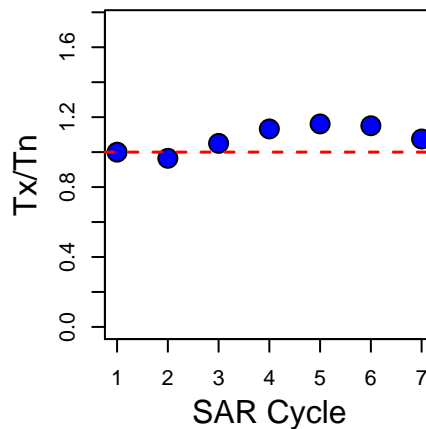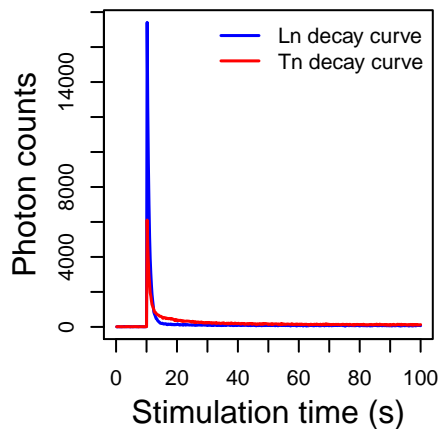=========================
Status: OK
=========================
Tn: 26256.5 +/− 551.25
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 22.15 +/− 0.64
RSE of Tn: 2.1 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 1.09 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
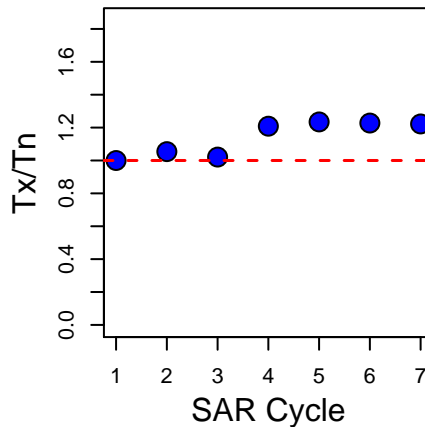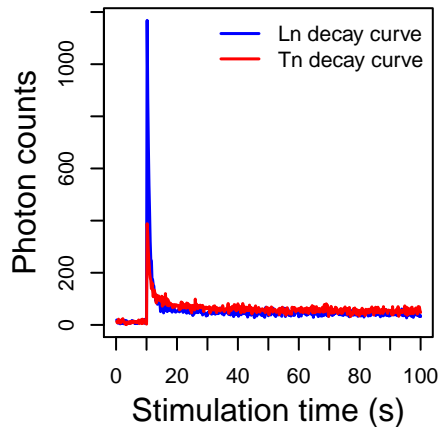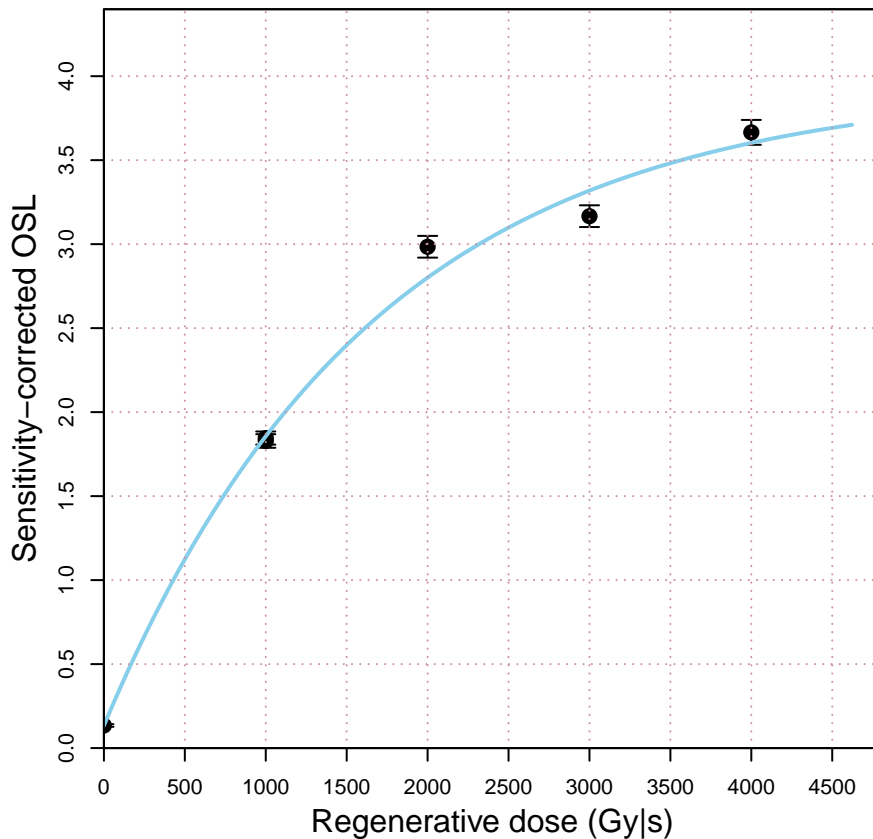=========================
Recuperation 1: 2.99 +/− 0.15 (%)
Recuperation 2: 1.89 +/− 0.09 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 4.64
Average error in fit: 0.02
Reduced Chi−Square: 4.64
Figure Of Merit: 1.67 (%)
=========================
a=5.7 +/− 7.1
b=0.00072 +/− 0.00057
c=1.6 +/− 5.6
d=0.072 +/− 0.0044
e=NULL

Summary

ID: [NO=13, Position=25, Grain=0]
========================
Status: OK
========================
Tn: 1696 +/− 60.53
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 4.11 +/− 0.2
RSE of Tn: 3.57 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 1.01 +/− 0.06
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 5.14 +/− 0.63 (%)
Recuperation 2: 3.67 +/− 0.45 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 3.72
Average error in fit: 0.04
Reduced Chi−Square: 3.72
Figure Of Merit: 3.23 (%)
========================
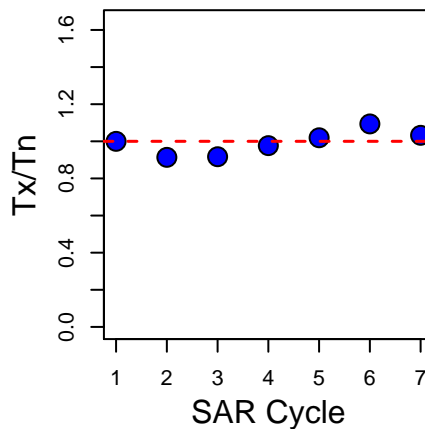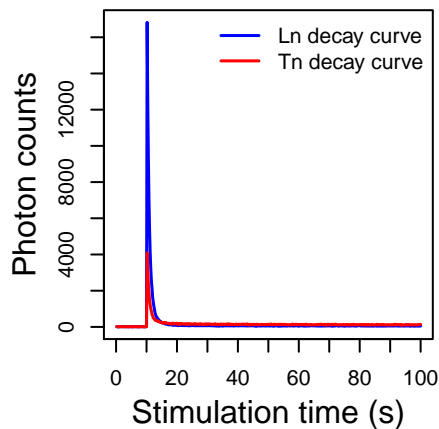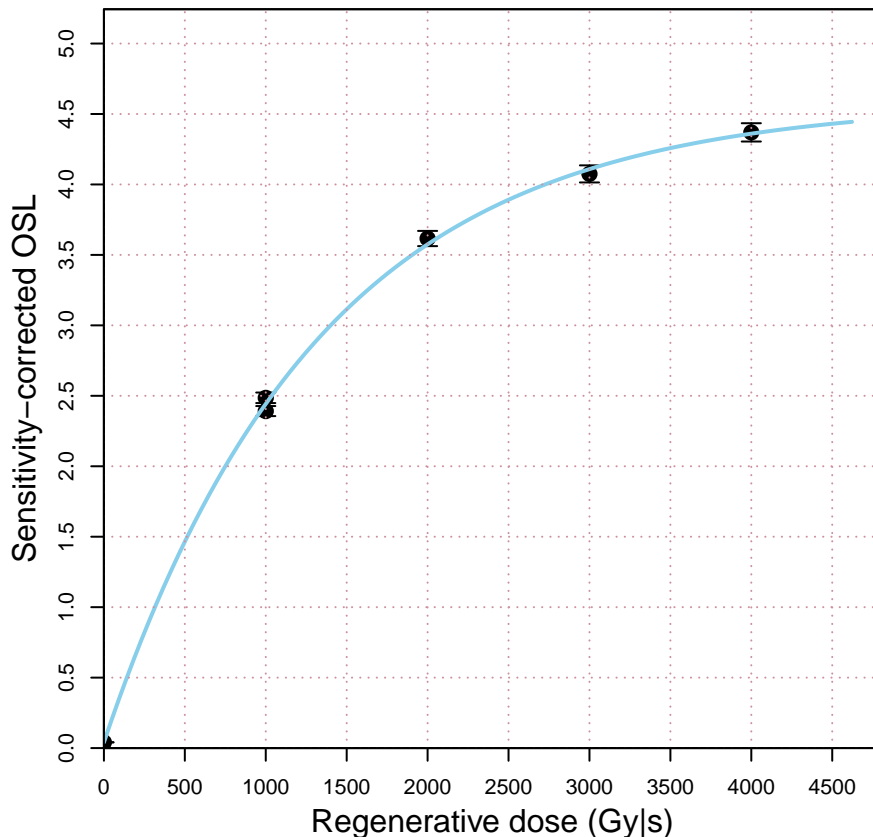a=3.8 +/− 0.33
b=6e−04 +/− 9e−05
c=1e−10 +/− 1.5e−11
d=0.13 +/− 0.021
e=NULL

Summary

ID: [NO=15, Position=29, Grain=0]
=========================
Status: OK
=========================
Tn: 16180.5 +/− 350.29
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 14.49 +/− 0.43
RSE of Tn: 2.16 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 0.96 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 1.03 +/− 0.07 (%)
Recuperation 2: 0.94 +/− 0.06 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 1.07
Average error in fit: 0.01
Reduced Chi−Square: 1.07
Figure Of Merit: 1.05 (%)
=========================
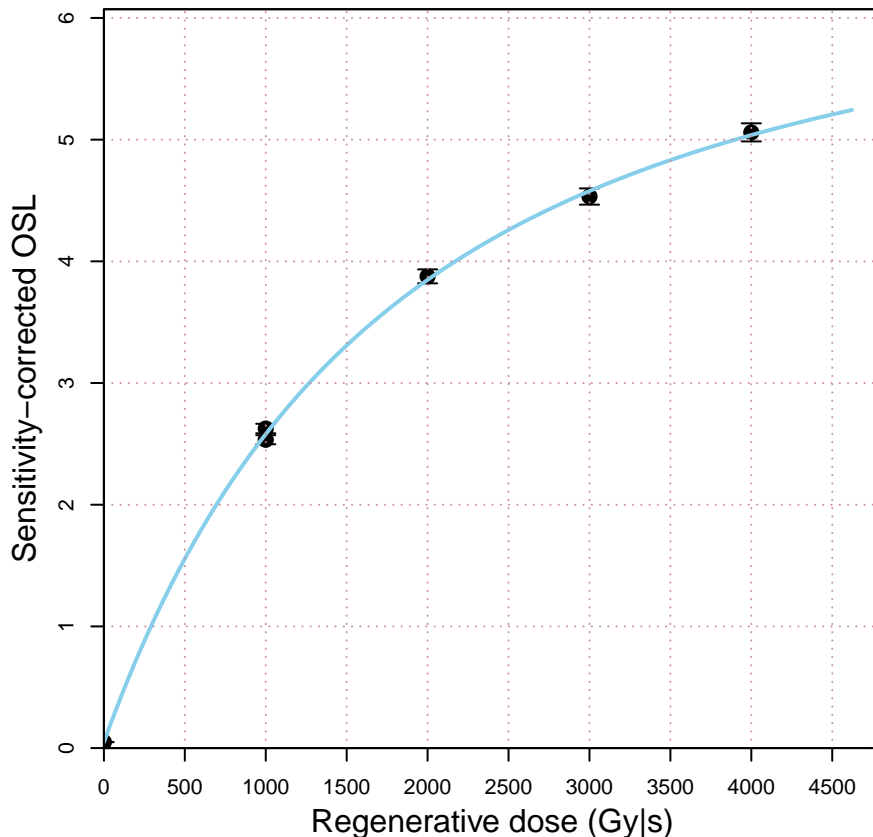a=4.5 +/− 0.14
b=0.00075 +/− 8.2e−05
c=1e−10 +/− 1.1e−11
d=0.041 +/− 0.0018
e=NULL

Summary

ID: [NO=16, Position=31, Grain=0]
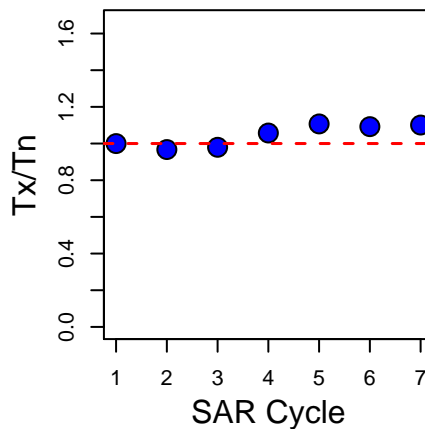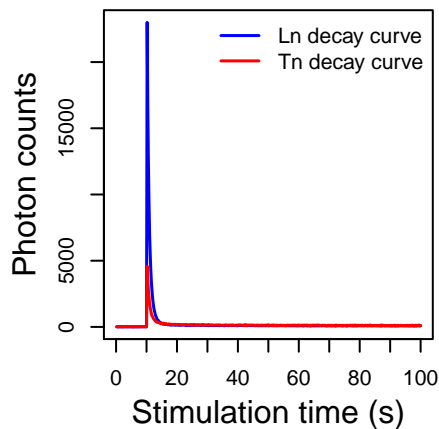=========================
Status: OK
=========================
Tn: 19119 +/− 408.75
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 17.44 +/− 0.53
RSE of Tn: 2.14 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 0.96 +/− 0.04
Recycling ratio 2: NA +/− NA
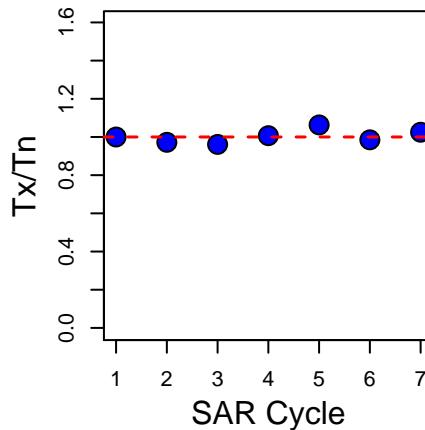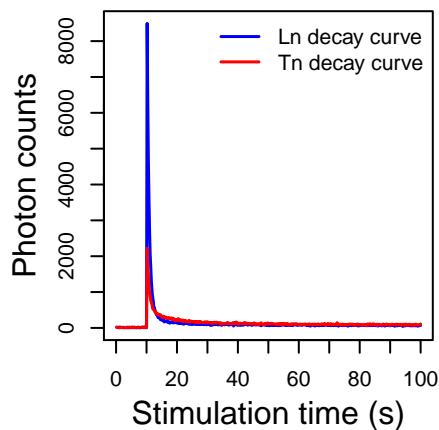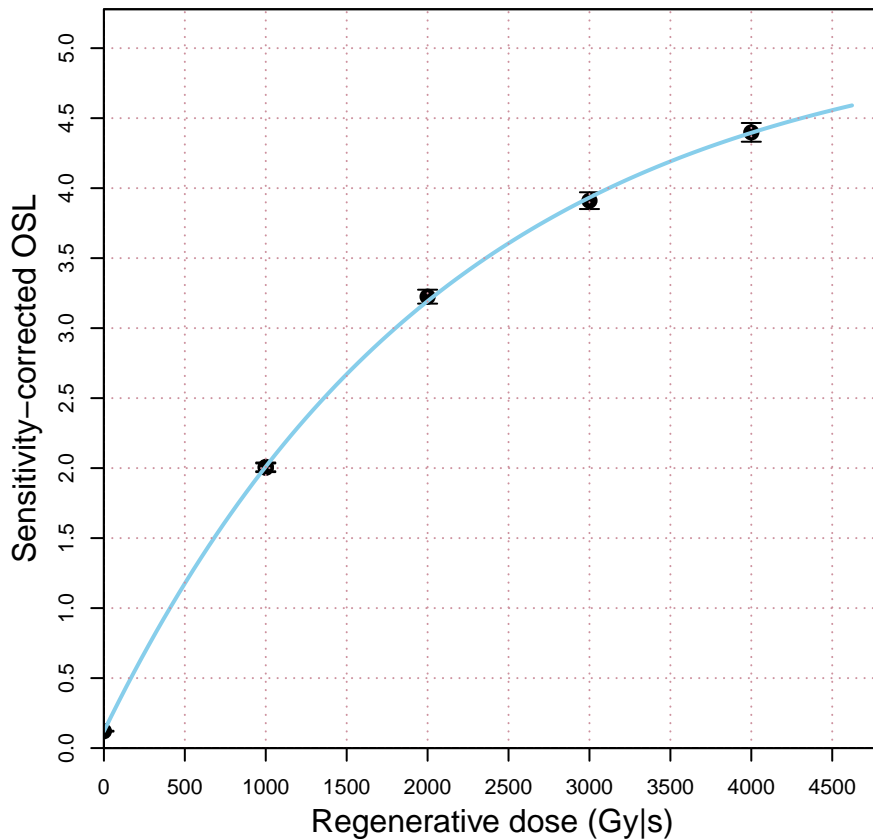Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 1.09 +/− 0.07 (%)
Recuperation 2: 0.97 +/− 0.06 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.92
Average error in fit: 0.01
Reduced Chi−Square: 0.92
Figure Of Merit: 1 (%)
=========================
a=6.5 +/− 2
b=0.00057 +/− 0.00012
c=0.55 +/− 0.95
d=0.049 +/− 0.0018
e=NULL

Summary

Summary

Plot content (transcribed):

X-axis: Regenerative dose (Gy|s)
Y-axis: Sensitivity−corrected OSL

Lower left plot:
- Photon counts vs Stimulation time (s)
- Legend: Ln decay curve (blue), Tn decay curve (red)

Lower middle plot:
- Tx/Tn vs SAR Cycle

Summary panel:

ID: [NO=17, Position=33, Grain=0]
========================
Status: OK
========================
Tn: 10236 +/− 231.18
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 12.82 +/− 0.45
RSE of Tn: 2.26 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 1 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 3.86 +/− 0.22 (%)
Recuperation 2: 2.74 +/− 0.16 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.15
Average error in fit: 0.01
Reduced Chi−Square: 0.15
Figure Of Merit: 0.43 (%)
========================
a=5 +/− 0.1
b=0.00047 +/− 2.1e−05
c=1e−10 +/− 4.5e−12
d=0.12 +/− 0.0016
e=NULL

ID: [NO=18, Position=35, Grain=0]
==========================
Status: OK
==========================
Tn: 3147.5 +/− 90.59
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 5.3 +/− 0.21
RSE of Tn: 2.88 (%)
Fast ratio of Tn: NA +/− NA
==========================
Recycling ratio 1: 0.96 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
==========================
Recuperation 1: 2.54 +/− 0.4 (%)
Recuperation 2: 1.66 +/− 0.26 (%)
==========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.51
Average error in fit: 0.01
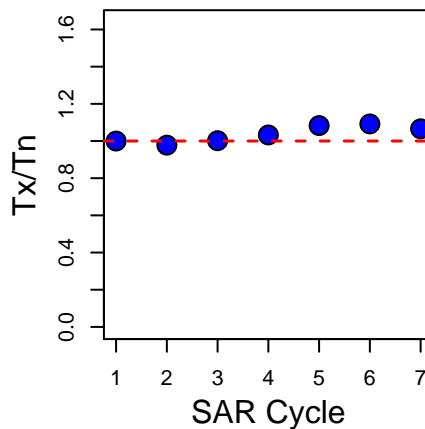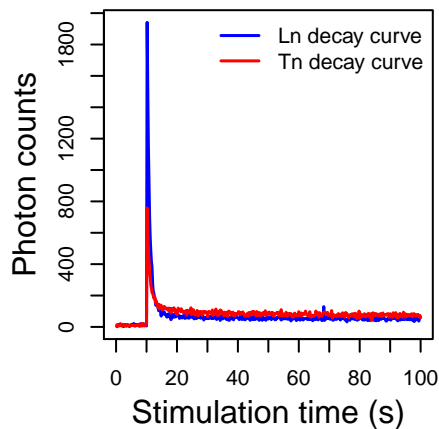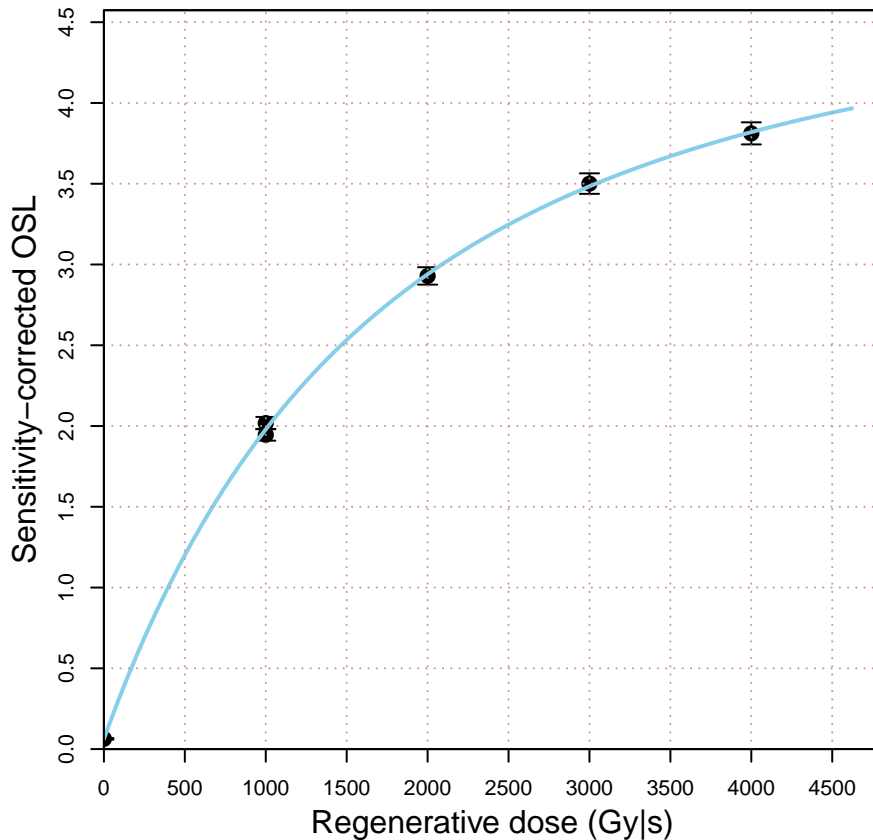Reduced Chi−Square: 0.51
Figure Of Merit: 0.76 (%)
==========================
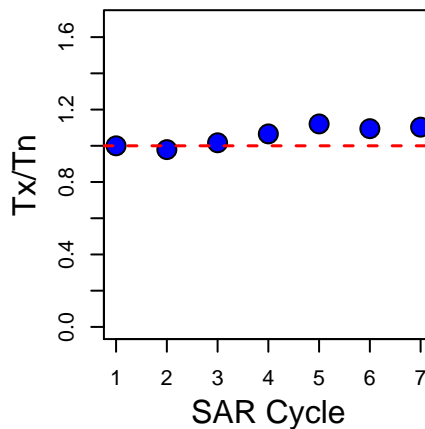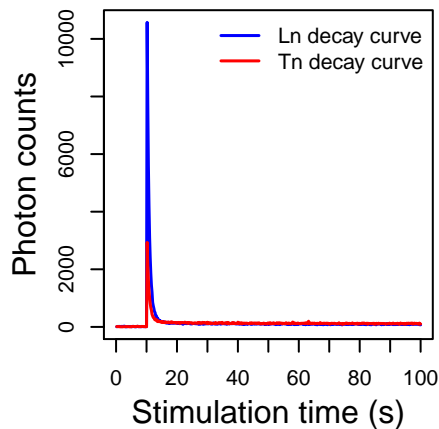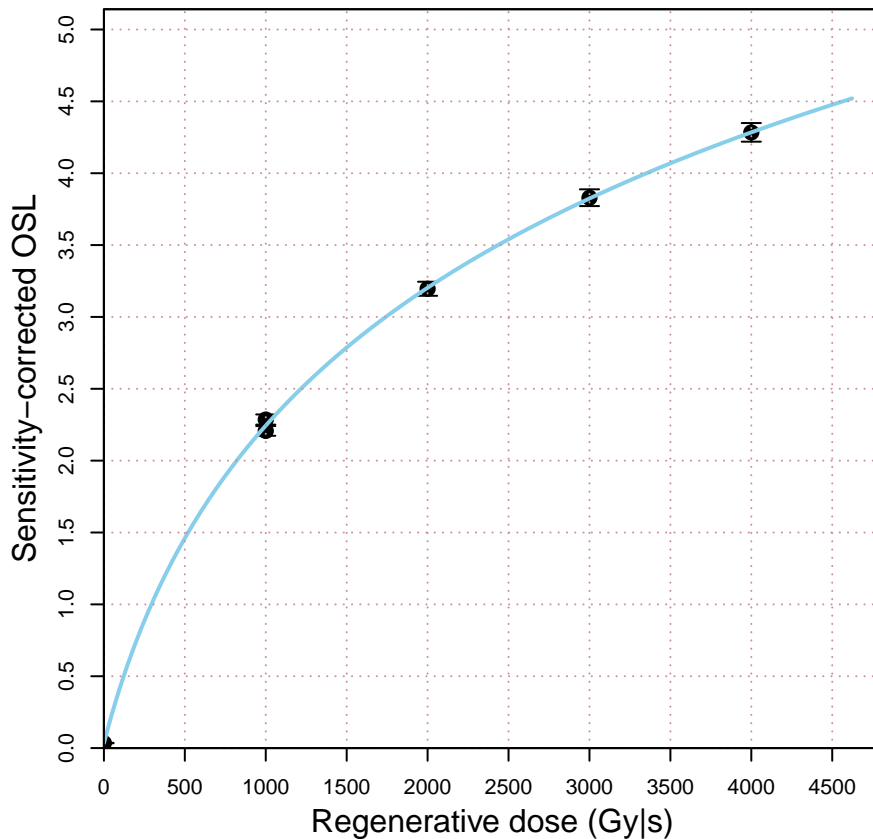a=4.7 +/− 1.1
b=0.00059 +/− 9.5e−05
c=0.44 +/− 0.72
d=0.063 +/− 0.0049
e=NULL

Summary

ID: [NO=19, Position=37, Grain=0]
==========================
Status: OK
==========================
Tn: 10729.5 +/− 241.91
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 10.23 +/− 0.31
RSE of Tn: 2.25 (%)
Fast ratio of Tn: NA +/− NA
==========================
Recycling ratio 1: 0.97 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
==========================
Recuperation 1: 0.98 +/− 0.11 (%)
Recuperation 2: 0.82 +/− 0.09 (%)
==========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.66
Average error in fit: 0.01
Reduced Chi−Square: 0.66
Figure Of Merit: 0.58 (%)
==========================
a=6200000 +/− 2.6e+07
b=7e−10 +/− 2.9e−09
c=3500000 +/− 1.5e+07
d=0.035 +/− 0.0021
e=NULL

Summary

Summary

ID: [NO=20, Position=39, Grain=0]
========================
Status: OK
========================
Tn: 1787 +/− 61.03
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 5.06 +/− 0.26
RSE of Tn: 3.42 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 0.95 +/− 0.06
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 3.35 +/− 0.55 (%)
Recuperation 2: 2.12 +/− 0.35 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.81
Average error in fit: 0.01
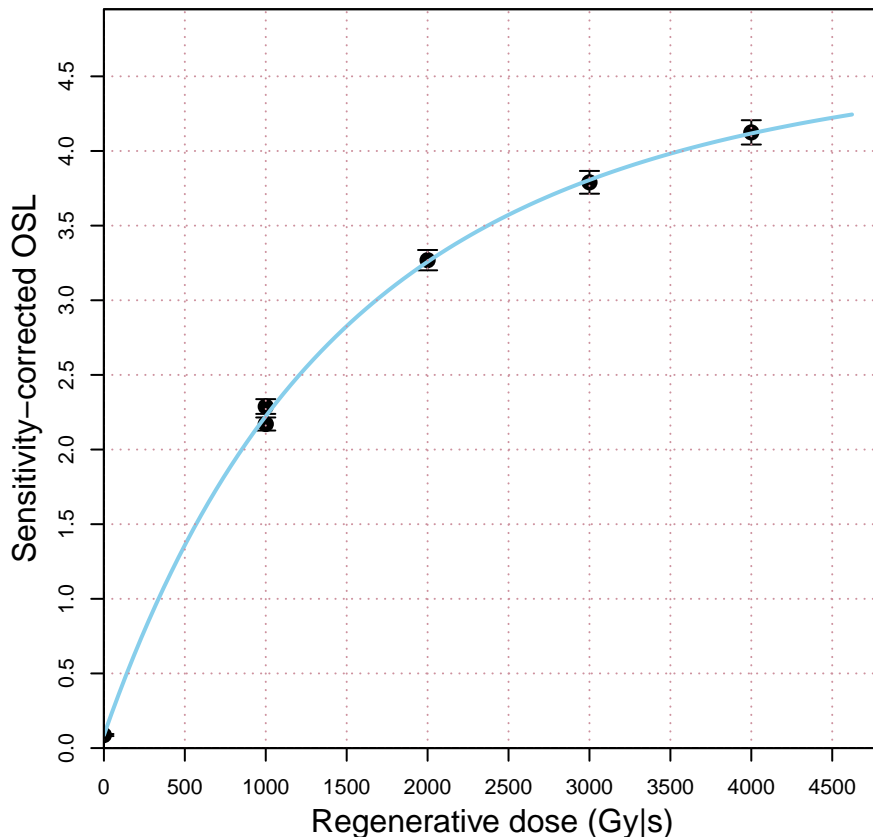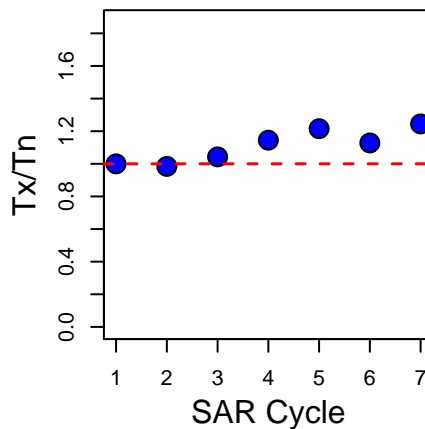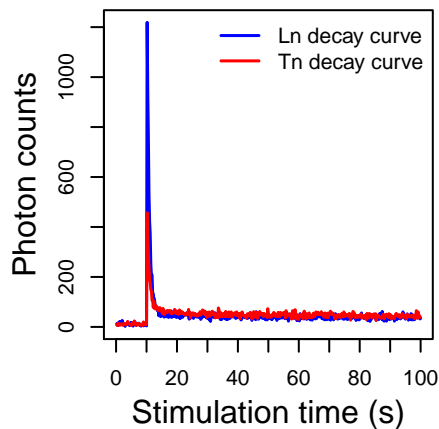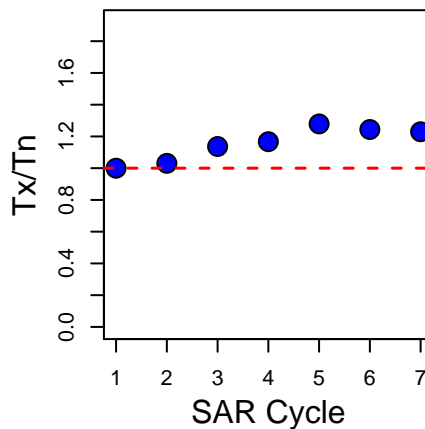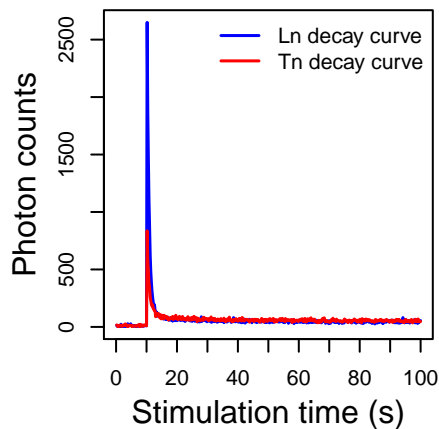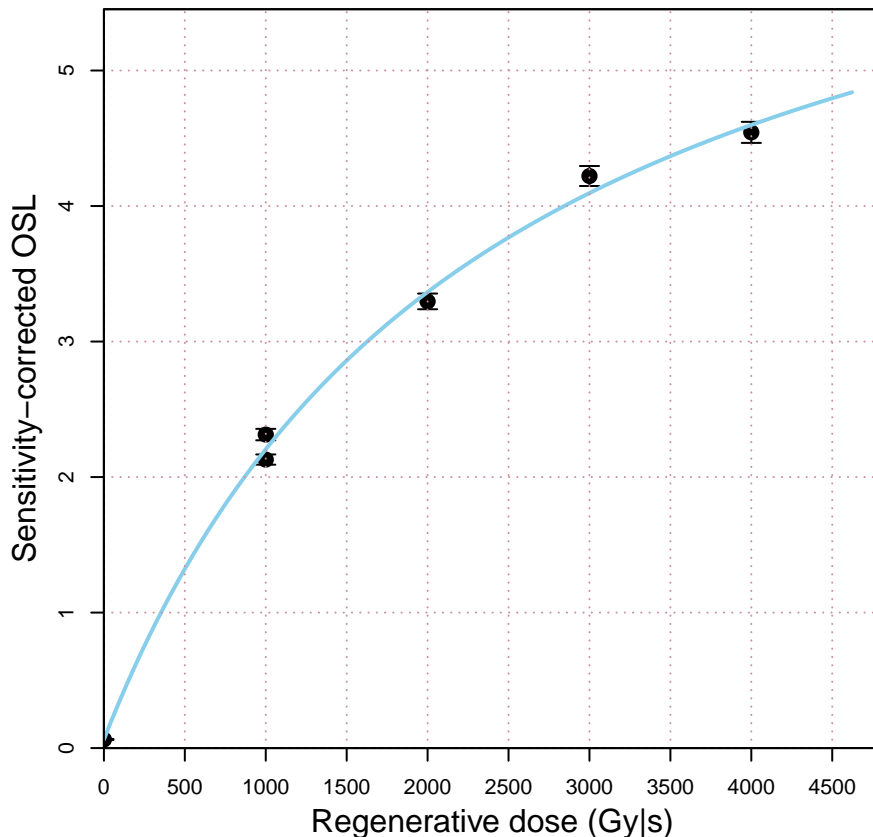Reduced Chi−Square: 0.81
Figure Of Merit: 0.96 (%)
========================
a=4.6 +/− 1
b=0.00067 +/− 8e−05
c=0.24 +/− 0.67
d=0.087 +/− 0.0088
e=NULL

Summary

ID: [NO=21, Position=41, Grain=0]
========================
Status: OK
========================
Tn: 3154.5 +/− 89
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 7.01 +/− 0.33
RSE of Tn: 2.82 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 0.92 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 2.1 +/− 0.29 (%)
Recuperation 2: 1.4 +/− 0.19 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 3.87
Average error in fit: 0.03
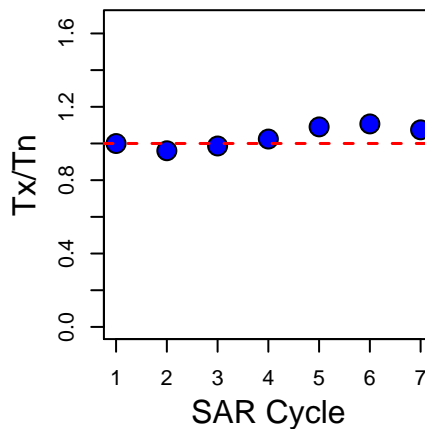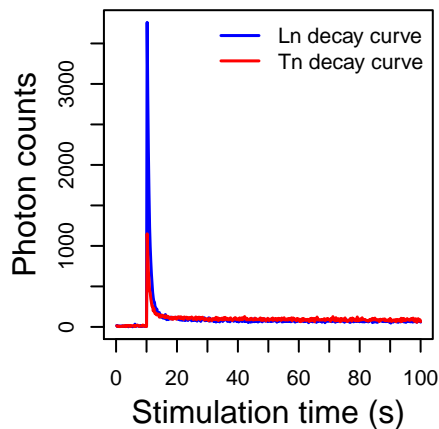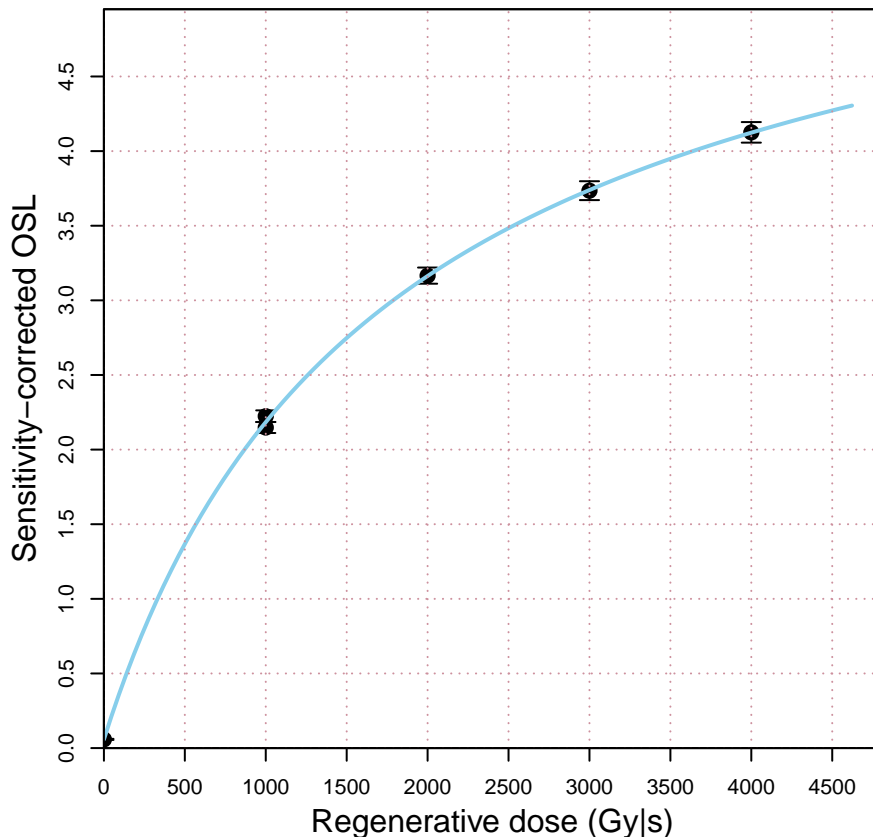Reduced Chi−Square: 3.87
Figure Of Merit: 2.63 (%)
========================
a=7.4 +/− 11
b=0.00042 +/− 0.00053
c=1.1 +/− 4.9
d=0.063 +/− 0.012
e=NULL

ID: [NO=22, Position=43, Grain=0]
========================
Status: OK
========================
Tn: 4511 +/− 117.98
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 6.33 +/− 0.23
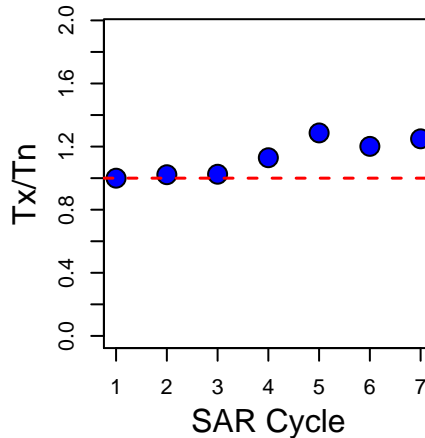RSE of Tn: 2.62 (%)
Fast ratio of Tn: NA +/− NA
========================
Recycling ratio 1: 0.97 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
========================
Recuperation 1: 1.82 +/− 0.24 (%)
Recuperation 2: 1.41 +/− 0.19 (%)
========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.51
Average error in fit: 0.01
Reduced Chi−Square: 0.51
Figure Of Merit: 0.55 (%)
========================
a=6.4 +/− 3.2
b=0.00054 +/− 2e−04
c=1.3 +/− 1.9
d=0.058 +/− 0.0038
e=NULL

Summary

ID: [NO=23, Position=45, Grain=0]
=========================
Status: OK
=========================
Tn: 3306.5 +/− 94.46
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 4.99 +/− 0.19
RSE of Tn: 2.86 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 1.02 +/− 0.05
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 3.55 +/− 0.41 (%)
Recuperation 2: 2.43 +/− 0.28 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 0.65
Average error in fit: 0.01
Reduced Chi−Square: 0.65
Figure Of Merit: 1.12 (%)
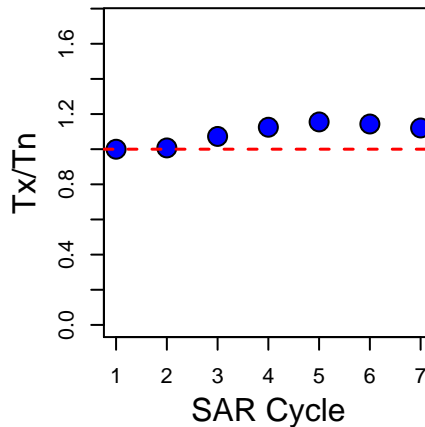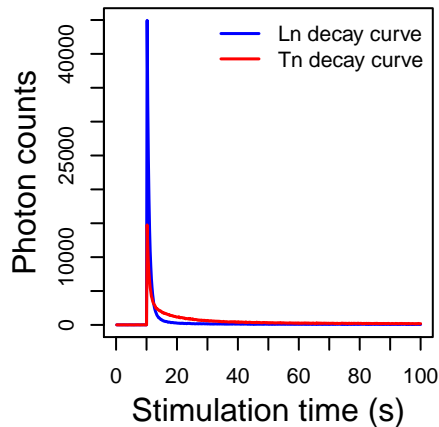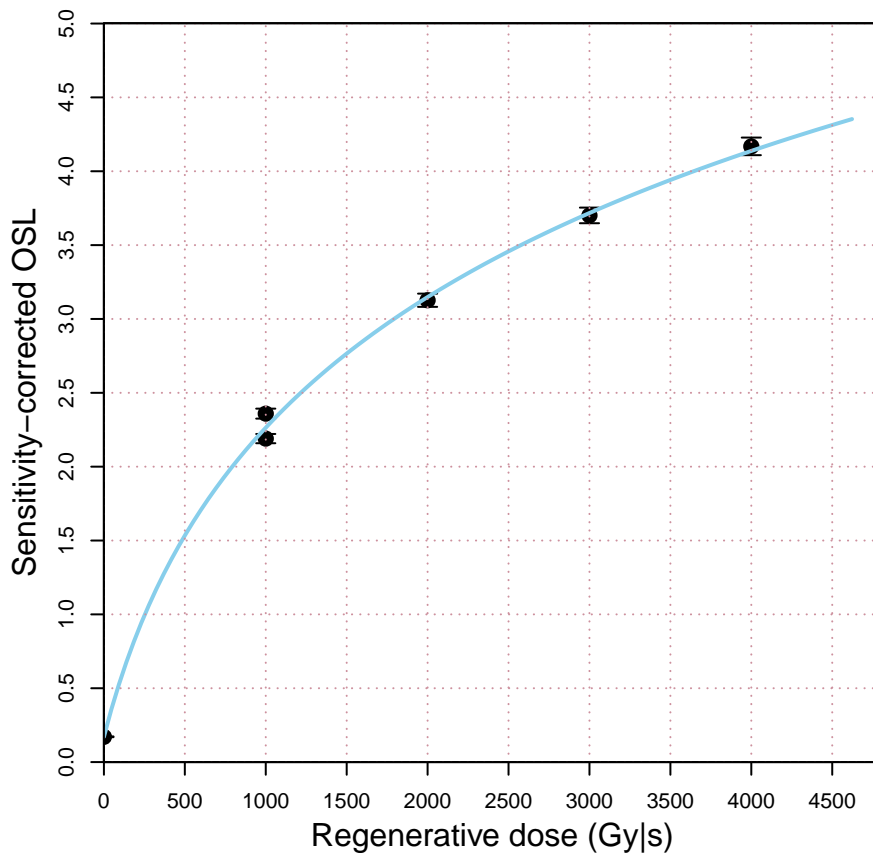=========================
a=4 +/− 0.1
b=0.00059 +/− 2.8e−05
c=3.5e−05 +/− 0.0045
d=0.089 +/− 0.0055
e=NULL

Summary

Axis labels and plot text:

Top plot:
- Y-axis: Sensitivity−corrected OSL
- X-axis: Regenerative dose (Gy|s)

Bottom-left plot:
- Y-axis: Photon counts
- X-axis: Stimulation time (s)
- Legend: Ln decay curve, Tn decay curve

Bottom-middle plot:
- Y-axis: Tx/Tn
- X-axis: SAR Cycle

Summary panel:

ID: [NO=24, Position=47, Grain=0]
=========================
Status: OK
=========================
Tn: 69703 +/− 1419.82
Tn above 3 sigma BG: TRUE
Ratio of Tn to BG: 38.39 +/− 0.9
RSE of Tn: 2.04 (%)
Fast ratio of Tn: NA +/− NA
=========================
Recycling ratio 1: 1.08 +/− 0.04
Recycling ratio 2: NA +/− NA
Recycling ratio 3: NA +/− NA
=========================
Recuperation 1: 7 +/− 0.29 (%)
Recuperation 2: 4.1 +/− 0.17 (%)
=========================
Fit model: gok
Pass origin: FALSE
Weighted fit: TRUE
Minimized value: 3.52
Average error in fit: 0.02
Reduced Chi−Square: 3.52
Figure Of Merit: 1.51 (%)
=========================
a=2300000 +/− 3.6e+07
b=1.9e−09 +/− 2.9e−08
c=1400000 +/− 2.2e+07
d=0.17 +/− 0.0068
e=NULL

Summary