

Individual Noncompartmental Analysis Result

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.5.0 (2023-11-19)
R version 4.3.0 (2023-04-21 ucrt)

Date and Time: 2024-09-19 10:59:59.375499 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 4
Dose at time 0: 50 ug
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time	Conc.	Pred.	Residual	AUC	AUMC

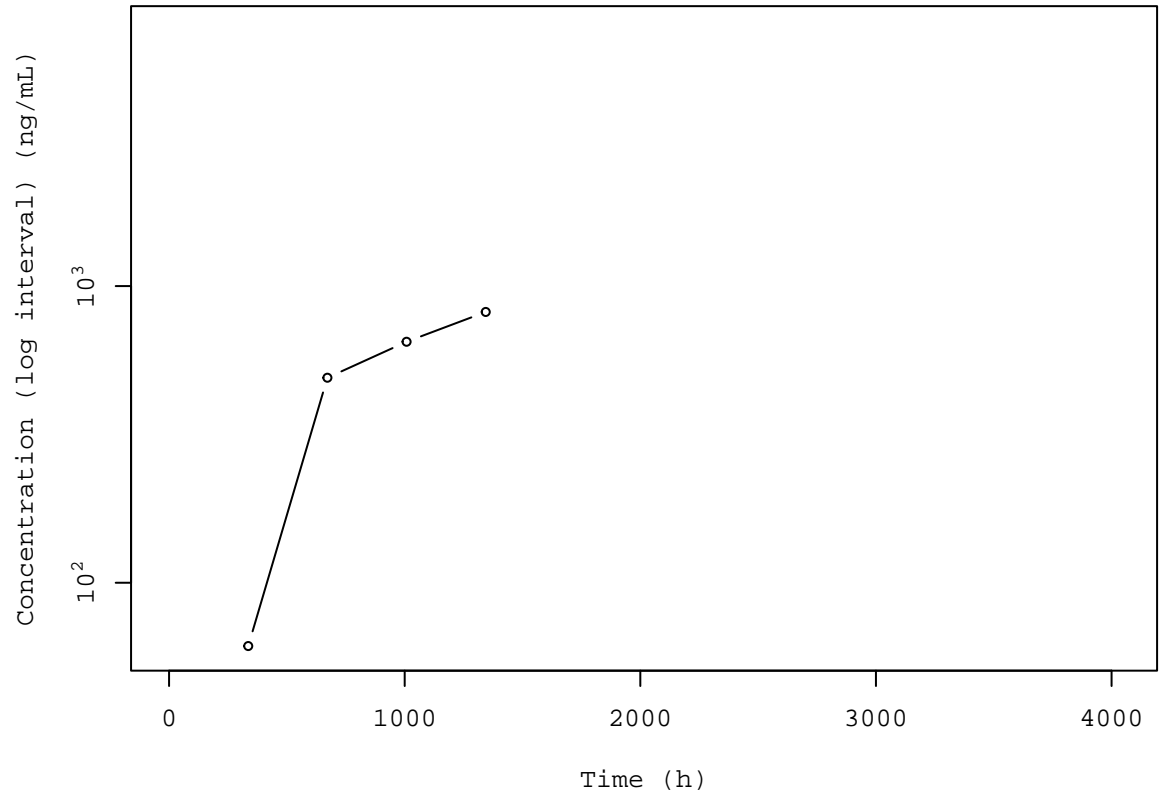
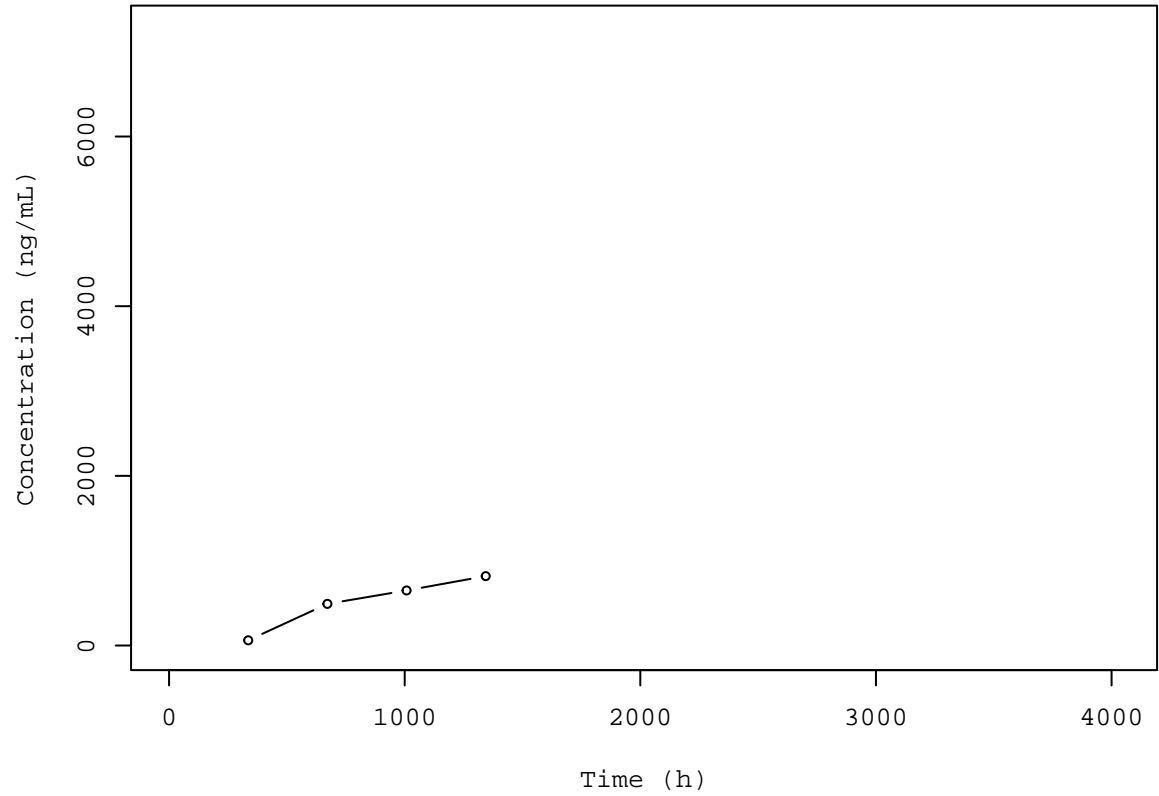
0.0000 +	61.1782			0.0000	0.0000
336.0000	61.1782			20555.8784	3453387.5754
672.0000	490.9297			113310.0027	62330771.5231
1008.0000	649.0416			304825.1795	227666071.5144
1344.0000	817.9506			551279.8674	522264070.8519

+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	817.9506 ug/L
CMAXD	Max Conc Norm by Dose	16.3590 ug/L/ug
TMAX	Time of CMAX	1344.0000 h
CLST	Last Nonzero Conc	817.9506 ug/L
TLST	Time of Last Nonzero Conc	1344.0000 h
LAMZNPT	Number of Points for Lambda z	0
AUCLST	AUC to Last Nonzero Conc	551279.8674 h*ug/L
AUCALL	AUC All	551279.8674 h*ug/L
AUMCLST	AUMC to Last Nonzero Conc	522264070.8519 h2*ug/L
C0	Initial Conc	61.1782 ug/L
MRTIVLST	MRT Intravasc to Last Nonzero Conc	947.3665 h

ID=2



NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.5.0 (2023-11-19)
R version 4.3.0 (2023-04-21 ucrt)

Date and Time: 2024-09-19 10:59:59.389616 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 6
Dose at time 0: 50 ug
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time	Conc.	Pred.	Residual	AUC	AUMC

0.0000 +	185.5850			0.0000	0.0000
336.0000	185.5850			62356.5656	10475903.0280
672.0000	1017.3442			264448.6698	135805894.0143
1008.0000 *	2190.0525	2054.0040	+1.360e+02	803291.3191	621532240.5340
1344.0000 *	1631.5841	1855.6270	-2.240e+02	1445326.2724	1360803131.5251
2688.0000 *	1384.0155	1236.0850	+1.479e+02	3471809.2061	5334394727.7065
4032.0000 *	784.4068	823.3907	-3.898e+01	4928988.9795	9959745040.7715

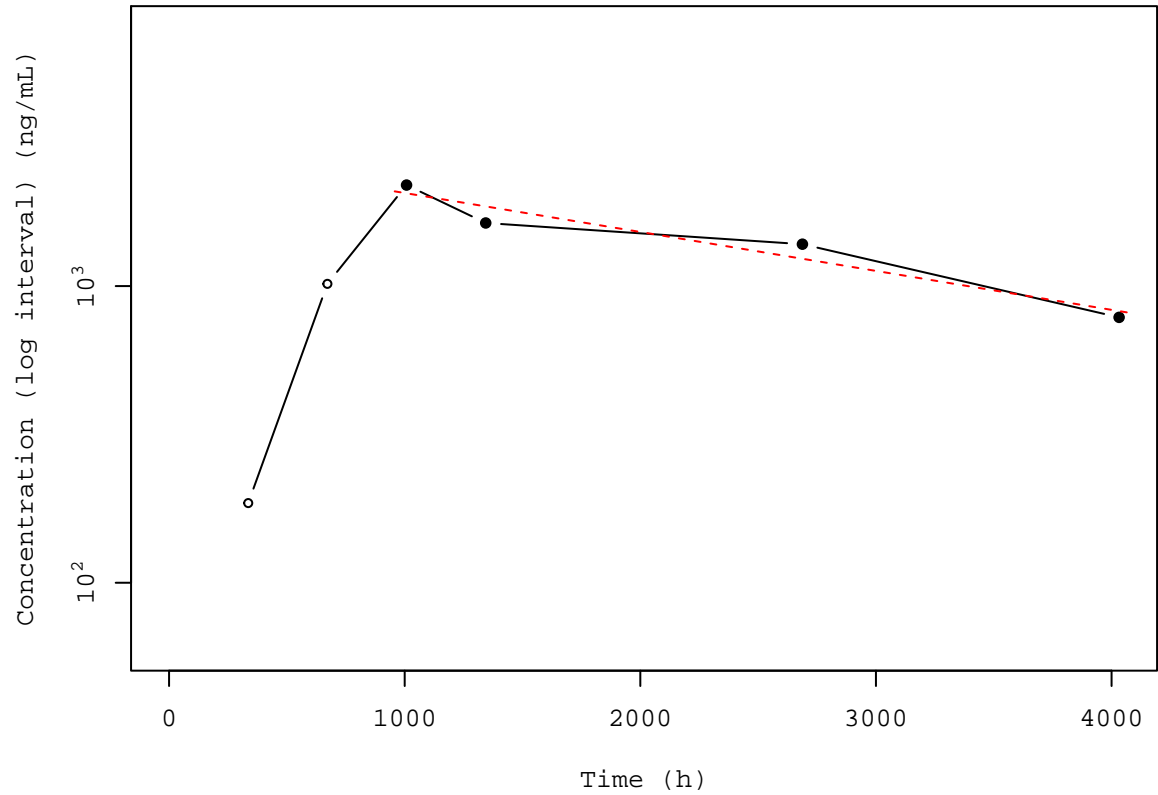
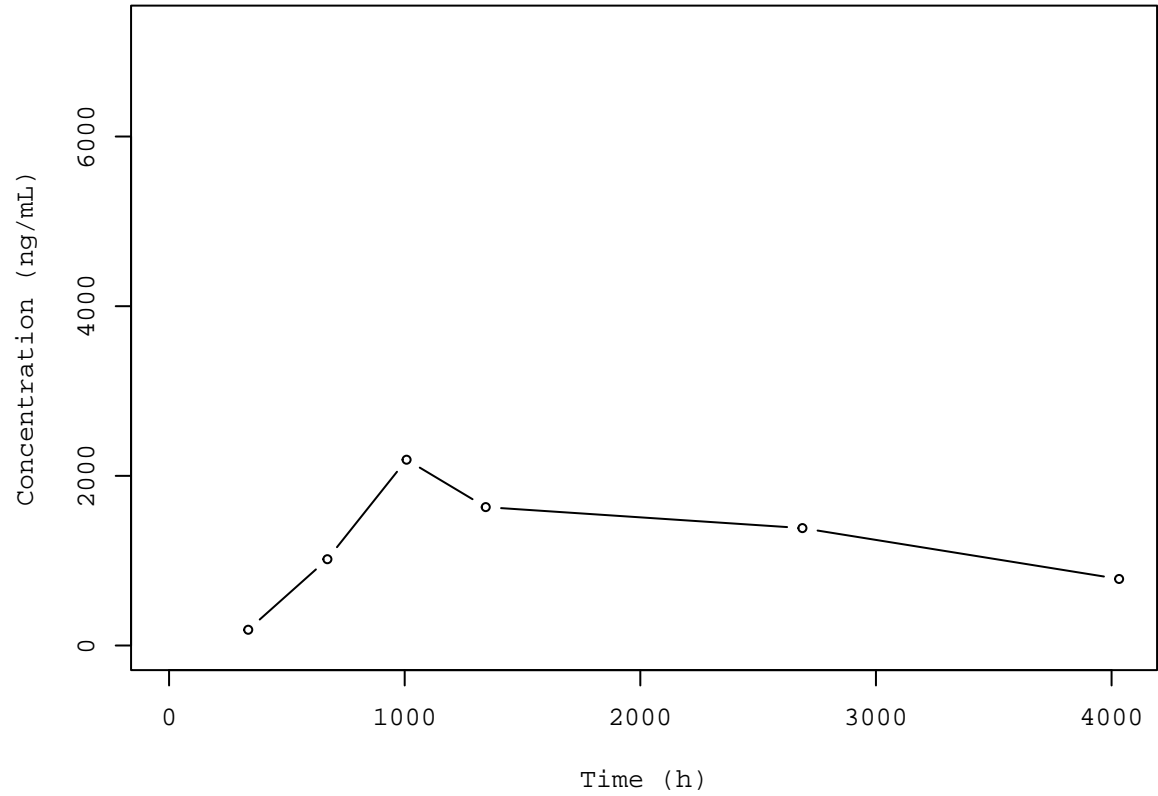
+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	2190.0525 ug/L
CMAXD	Max Conc Norm by Dose	43.8011 ug/L/ug
TMAX	Time of CMAX	1008.0000 h
CLST	Last Nonzero Conc	784.4068 ug/L
CLSTP	Last Nonzero Conc Pred	823.3907 ug/L
TLST	Time of Last Nonzero Conc	4032.0000 h
LAMZHL	Half-Life Lambda z	2293.0113 h
LAMZ	Lambda z	0.0003 /h
LAMZLL	Lambda z Lower Limit	1008.0000 h
LAMZUL	Lambda z Upper Limit	4032.0000 h
LAMZNPT	Number of Points for Lambda z	4
CORRXY	Correlation Between TimeX and Log ConcY	-0.9675
R2	R Squared	0.9360
R2ADJ	R Squared Adjusted	0.9040
AUCLST	AUC to Last Nonzero Conc	4928988.9795 h*ug/L
AUCALL	AUC All	4928988.9795 h*ug/L
AUCIFO	AUC Infinity Obs	7523897.5795 h*ug/L
AUCIFOD	AUC Infinity Obs Norm by Dose	150477.9516 h*ug/L/ug
AUCIFP	AUC Infinity Pred	7652861.1418 h*ug/L
AUCIFPD	AUC Infinity Pred Norm by Dose	153057.2228 h*ug/L/ug

ID=3

AUCPEO	AUC %Extrapolation Obs	34.4889 %
AUCPEP	AUC %Extrapolation Pred	35.5929 %
AUMCLST	AUMC to Last Nonzero Conc	9959745040.7715 h ² *ug/L
AUMCIFO	AUMC Infinity Obs	29006675358.2395 h ² *ug/L
AUMCIFP	AUMC Infinity Pred	29953282873.9983 h ² *ug/L
AUMCPEO	AUMC %Extrapolation Obs	65.6640 %
AUMCPEP	AUMC % Extrapolation Pred	66.7491 %
C0	Initial Conc	185.5850 ug/L
AUCPBEO	AUC %Back Extrapolation Obs	0.8288 %
AUCPBEP	AUC %Back Extrapolation Pred	0.8148 %
VZO	Vz Obs	0.0220 L
VZP	Vz Pred	0.0216 L
CLO	Total CL Obs	0.0000 L/h
CLP	Total CL Pred	0.0000 L/h
MRTIVLST	MRT Intravasc to Last Nonzero Conc	2020.6466 h
MRTIVIFO	MRT Intravasc Infinity Obs	3855.2725 h
MRTIVIFP	MRT Intravasc Infinity Pred	3913.9980 h
VSSO	Vol Dist Steady State Obs	0.0256 L
VSSP	Vol Dist Steady State Pred	0.0256 L



NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.5.0 (2023-11-19)
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Date and Time: 2024-09-19 10:59:59.403449 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 6
Dose at time 0: 50 ug
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time	Conc.	Pred.	Residual	AUC	AUMC

0.0000 +	457.8323			0.0000	0.0000
336.0000	457.8323			153831.6460	25843716.5358
672.0000	1097.5544			415136.6135	175596938.1279
1008.0000	1862.0210			912345.2813	614828522.7131
1344.0000 *	3544.2359	2979.9922	+5.642e+02	1820596.4417	1730410722.5152
2688.0000 *	1862.0295	2633.9138	-7.719e+02	5453606.8080	8294902105.9316
4032.0000 *	2768.8249	2328.0269	+4.408e+02	8565540.9314	19160495040.3701

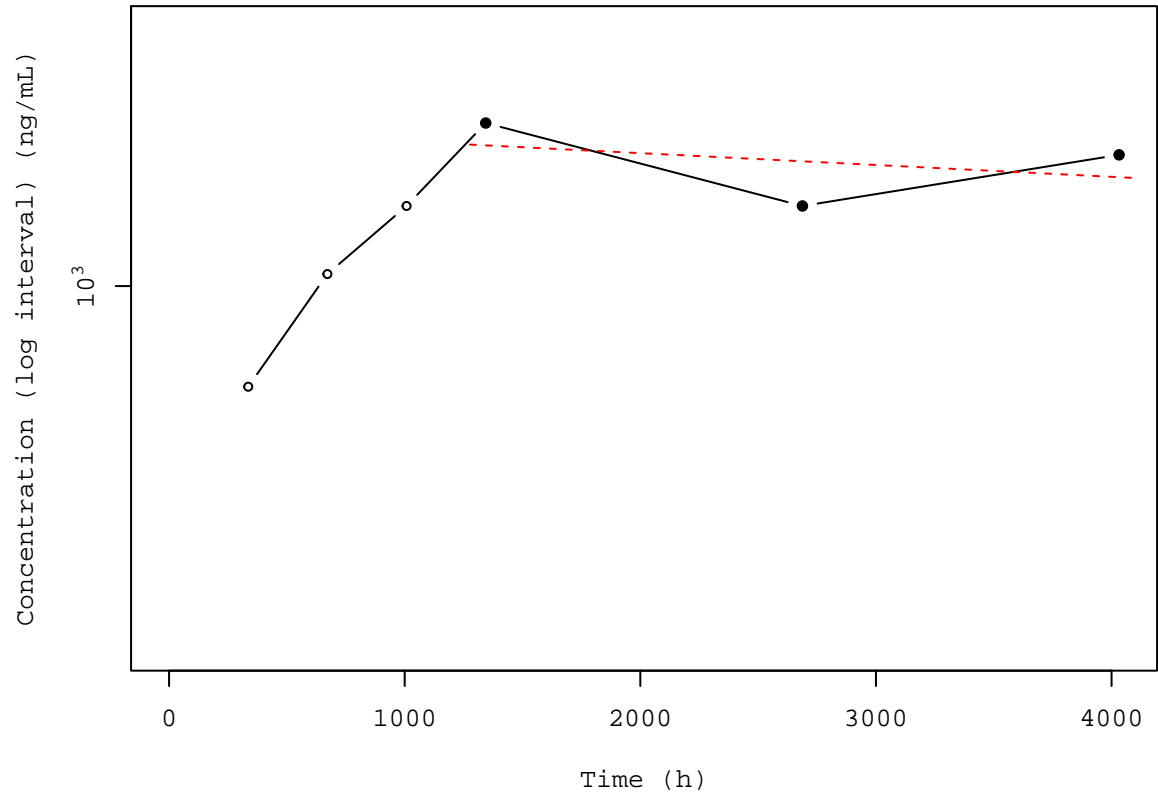
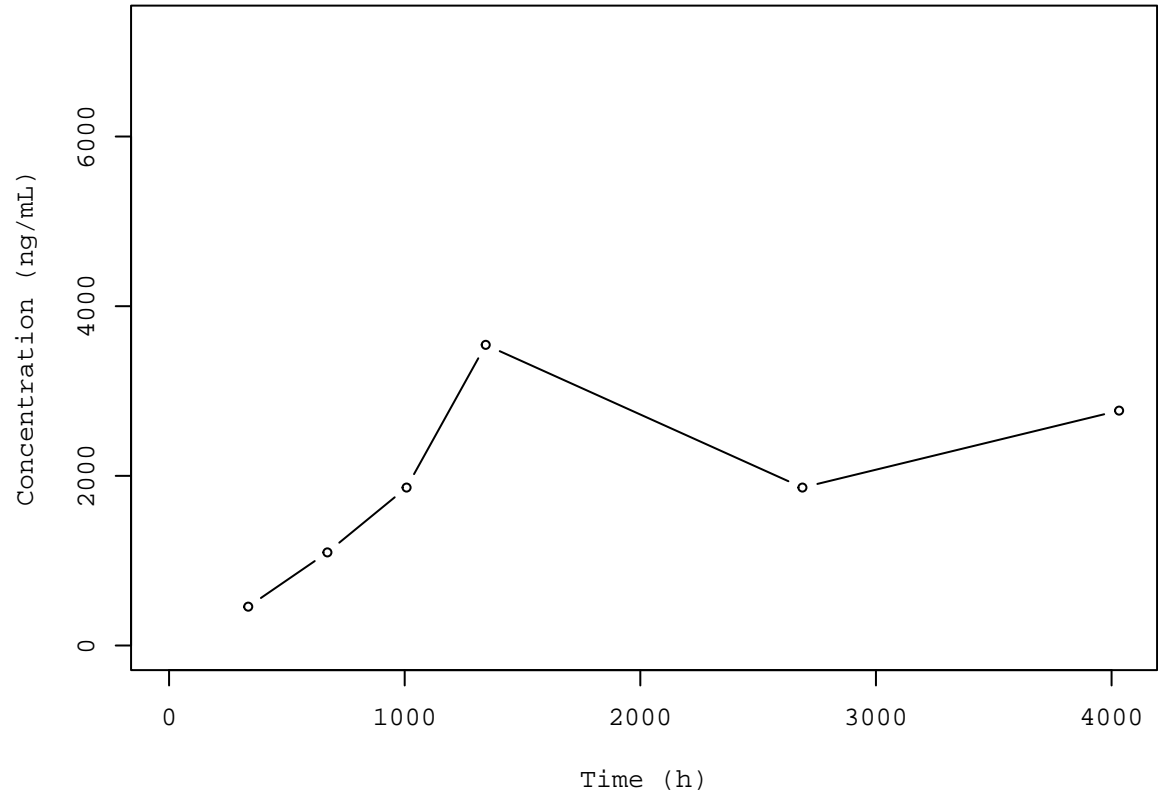
+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	3544.2359 ug/L
CMAXD	Max Conc Norm by Dose	70.8847 ug/L/ug
TMAX	Time of CMAX	1344.0000 h
CLST	Last Nonzero Conc	2768.8249 ug/L
CLSTP	Last Nonzero Conc Pred	2328.0269 ug/L
TLST	Time of Last Nonzero Conc	4032.0000 h
LAMZHL	Half-Life Lambda z	7546.3044 h
LAMZ	Lambda z	0.0001 /h
LAMZLL	Lambda z Lower Limit	1344.0000 h
LAMZUL	Lambda z Upper Limit	4032.0000 h
LAMZNPT	Number of Points for Lambda z	3
CORRXY	Correlation Between TimeX and Log ConcY	-0.3802
R2	R Squared	0.1445
R2ADJ	R Squared Adjusted	-0.7109
AUCLST	AUC to Last Nonzero Conc	8565540.9314 h*ug/L
AUCALL	AUC All	8565540.9314 h*ug/L
AUCIFO	AUC Infinity Obs	38709781.1937 h*ug/L
AUCIFOD	AUC Infinity Obs Norm by Dose	774195.6239 h*ug/L/ug
AUCIFP	AUC Infinity Pred	33910806.2954 h*ug/L
AUCIFPD	AUC Infinity Pred Norm by Dose	678216.1259 h*ug/L/ug

ID=4

AUCPEO	AUC %Extrapolation Obs	77.8724 %
AUCPEP	AUC %Extrapolation Pred	74.7410 %
AUMCLST	AUMC to Last Nonzero Conc	19160495040.3701 h2*ug/L
AUMCIFO	AUMC Infinity Obs	468882894727.0168 h2*ug/L
AUMCIFP	AUMC Infinity Pred	397286911927.6677 h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	95.9136 %
AUMCPEP	AUMC % Extrapolation Pred	95.1772 %
C0	Initial Conc	457.8323 ug/L
AUCPBEO	AUC %Back Extrapolation Obs	0.3974 %
AUCPBEP	AUC %Back Extrapolation Pred	0.4536 %
VZO	Vz Obs	0.0141 L
VZP	Vz Pred	0.0161 L
CLO	Total CL Obs	0.0000 L/h
CLP	Total CL Pred	0.0000 L/h
MRTIVLST	MRT Intravasc to Last Nonzero Conc	2236.9276 h
MRTIVIFO	MRT Intravasc Infinity Obs	12112.7756 h
MRTIVIFP	MRT Intravasc Infinity Pred	11715.6433 h
VSSO	Vol Dist Steady State Obs	0.0156 L
VSSP	Vol Dist Steady State Pred	0.0173 L



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Package version 0.5.0 (2023-11-19)
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Date and Time: 2024-09-19 10:59:59.416516 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 4
Dose at time 0: 50 ug
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

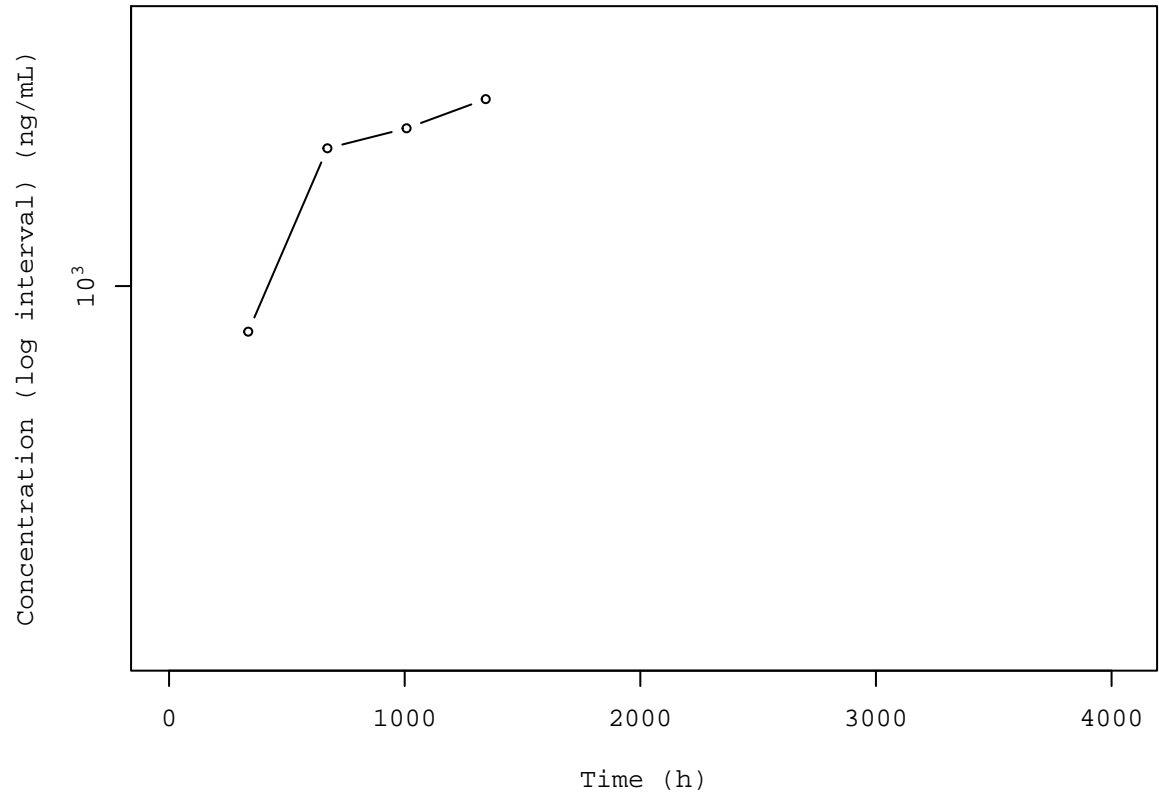
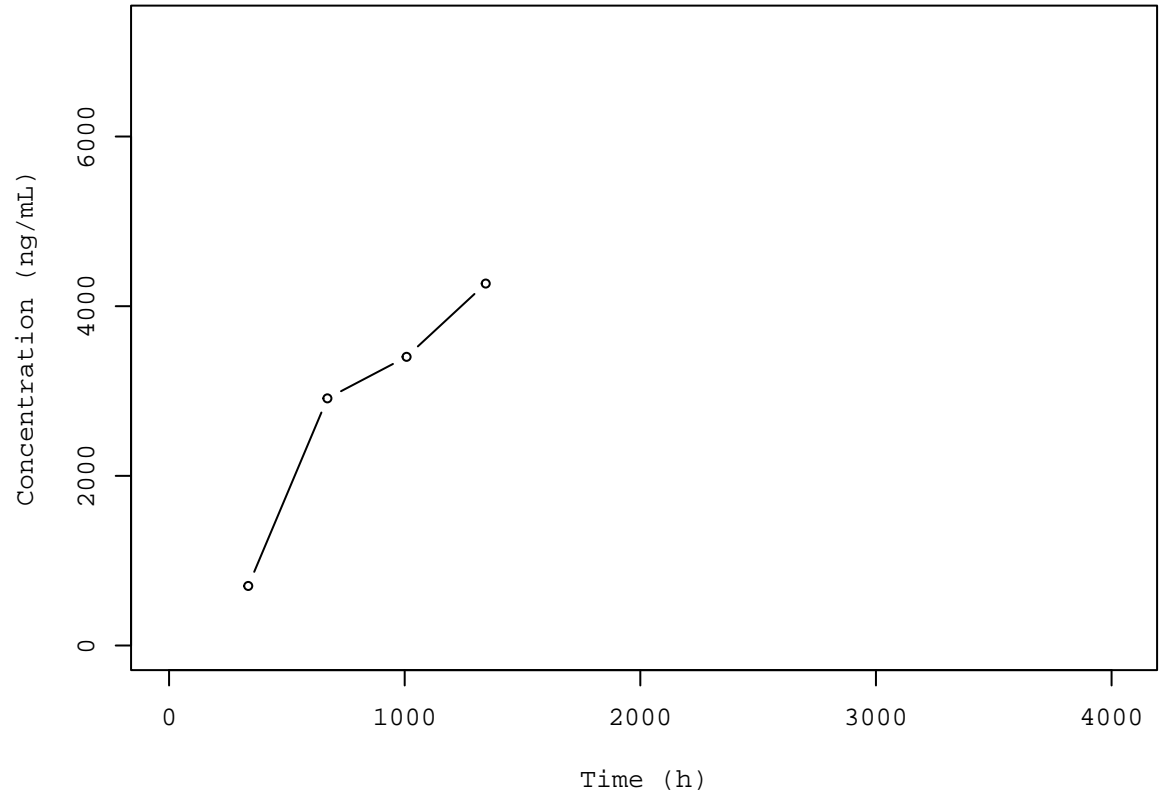
Time	Conc.	Pred.	Residual	AUC	AUMC

0.0000 +	701.8777			0.0000	0.0000
336.0000	701.8777			235830.9121	39619593.2295
672.0000	2913.4319			843202.9200	408153989.3304
1008.0000	3402.9559			1904356.0689	1313338961.9738
1344.0000	4266.8283			3192879.8181	2853024824.3241

+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

C _{MAX}	Max Conc	4266.8283 ug/L
C _{MAXD}	Max Conc Norm by Dose	85.3366 ug/L/ug
T _{MAX}	Time of C _{MAX}	1344.0000 h
C _{LST}	Last Nonzero Conc	4266.8283 ug/L
T _{LST}	Time of Last Nonzero Conc	1344.0000 h
L _{AMZNPT}	Number of Points for Lambda z	0
A _{UCLST}	AUC to Last Nonzero Conc	3192879.8181 h*ug/L
A _{UCALL}	AUC All	3192879.8181 h*ug/L
A _{UMCLST}	AUMC to Last Nonzero Conc	2853024824.3241 h ² *ug/L
C ₀	Initial Conc	701.8777 ug/L
M _{RTIVLST}	MRT Intravasc to Last Nonzero Conc	893.5585 h



NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.5.0 (2023-11-19)
R version 4.3.0 (2023-04-21 ucrt)

Date and Time: 2024-09-19 10:59:59.426887 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 4
Dose at time 0: 50 ug
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

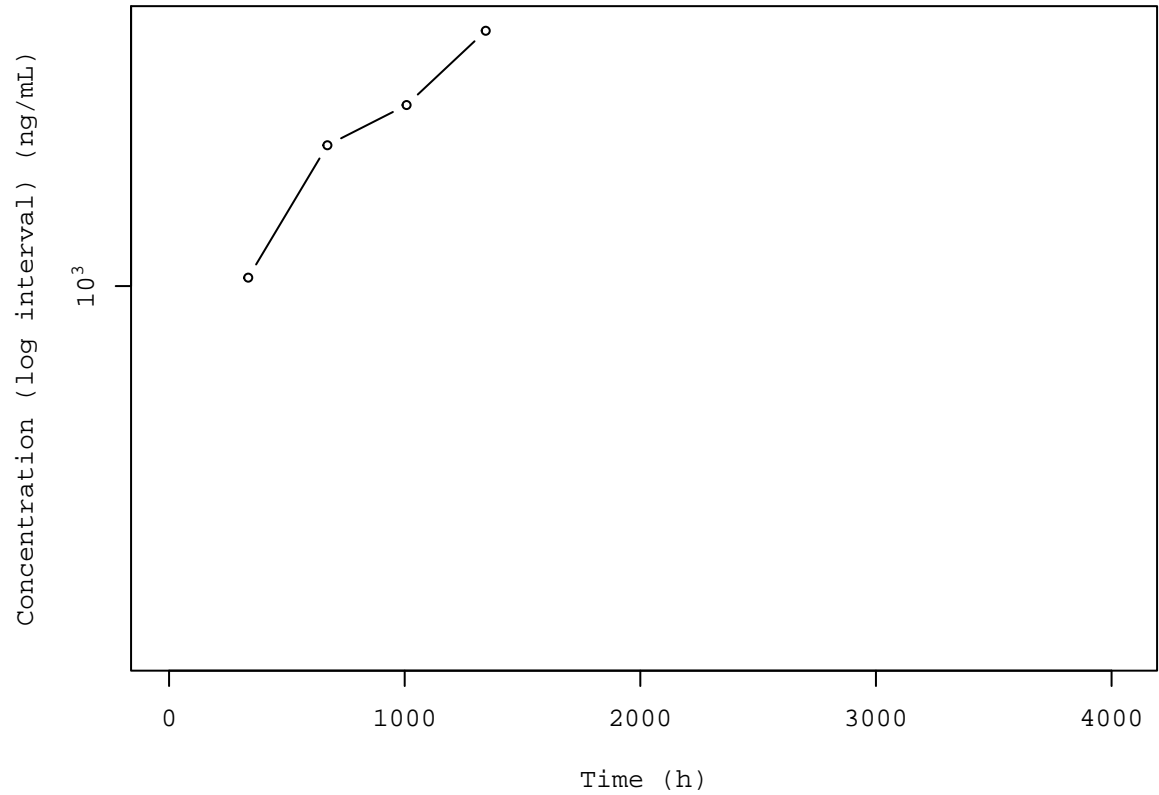
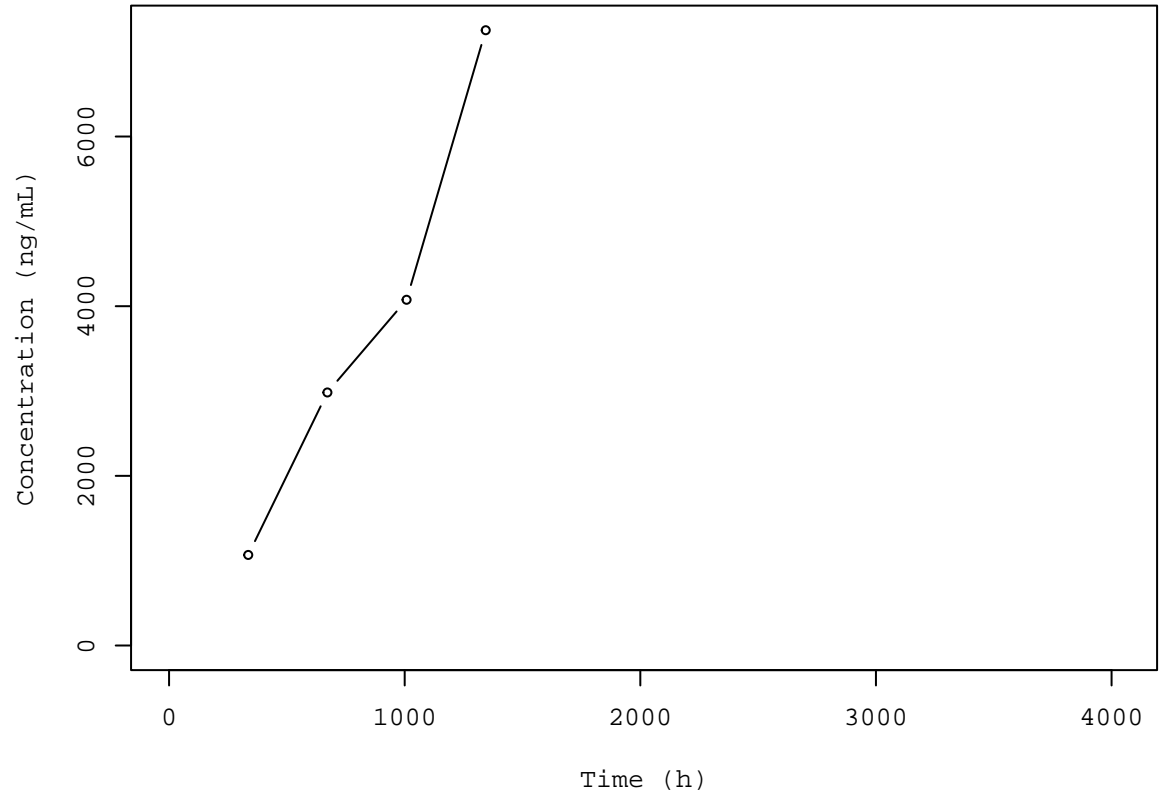
Time	Conc.	Pred.	Residual	AUC	AUMC

0.0000 +	1067.4996			0.0000	0.0000
336.0000	1067.4996			358679.8499	60258214.7889
672.0000	2982.8682			1039141.6361	457270320.2827
1008.0000	4075.6462			2224972.0560	1484210438.2440
1344.0000	7253.1795			4128214.7640	3812106561.9632

+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

C _{MAX}	Max Conc	7253.1795 ug/L
C _{MAXD}	Max Conc Norm by Dose	145.0636 ug/L/ug
T _{MAX}	Time of C _{MAX}	1344.0000 h
C _{LST}	Last Nonzero Conc	7253.1795 ug/L
T _{LST}	Time of Last Nonzero Conc	1344.0000 h
LAMZNPT	Number of Points for Lambda z	0
AUC _{LST}	AUC to Last Nonzero Conc	4128214.7640 h*ug/L
AUC _{ALL}	AUC All	4128214.7640 h*ug/L
AUMC _{LST}	AUMC to Last Nonzero Conc	3812106561.9632 h ² *ug/L
C ₀	Initial Conc	1067.4996 ug/L
MRT _{IVLST}	MRT Intravasc to Last Nonzero Conc	923.4274 h



NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.5.0 (2023-11-19)
R version 4.3.0 (2023-04-21 ucrt)

Date and Time: 2024-09-19 10:59:59.437726 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 4
Dose at time 0: 50 ug
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time	Conc.	Pred.	Residual	AUC	AUMC

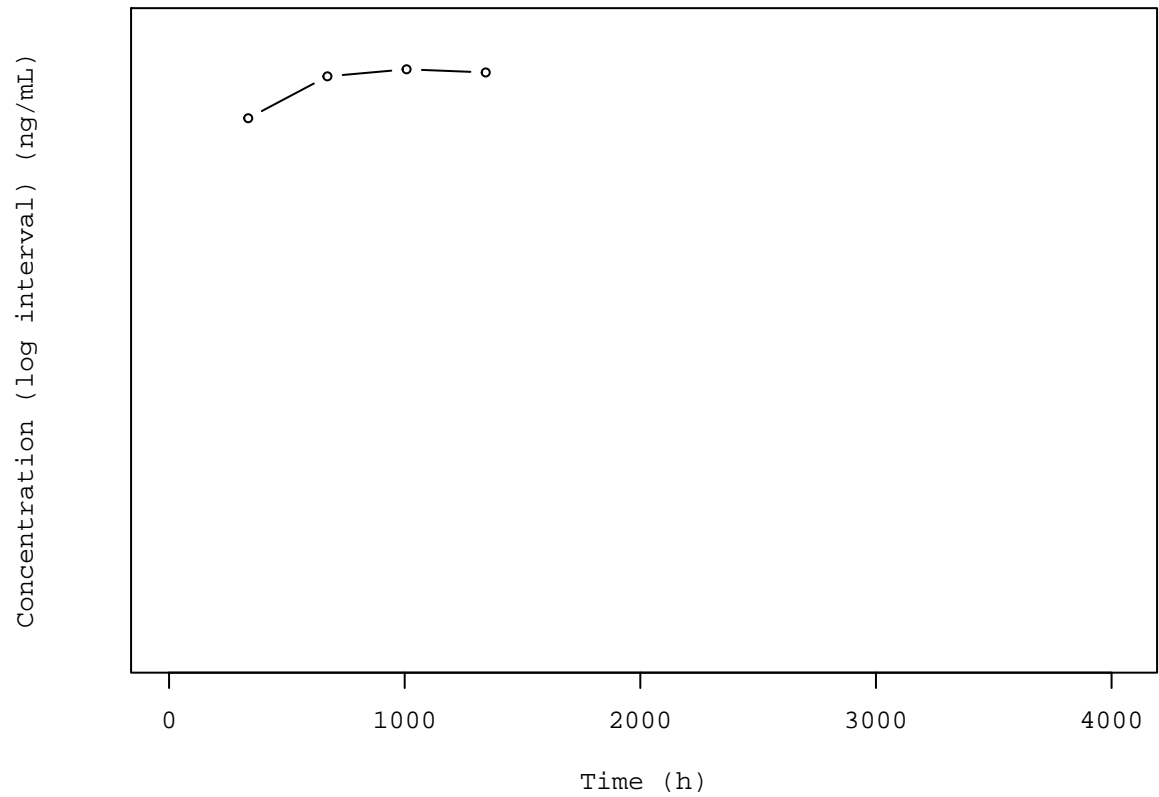
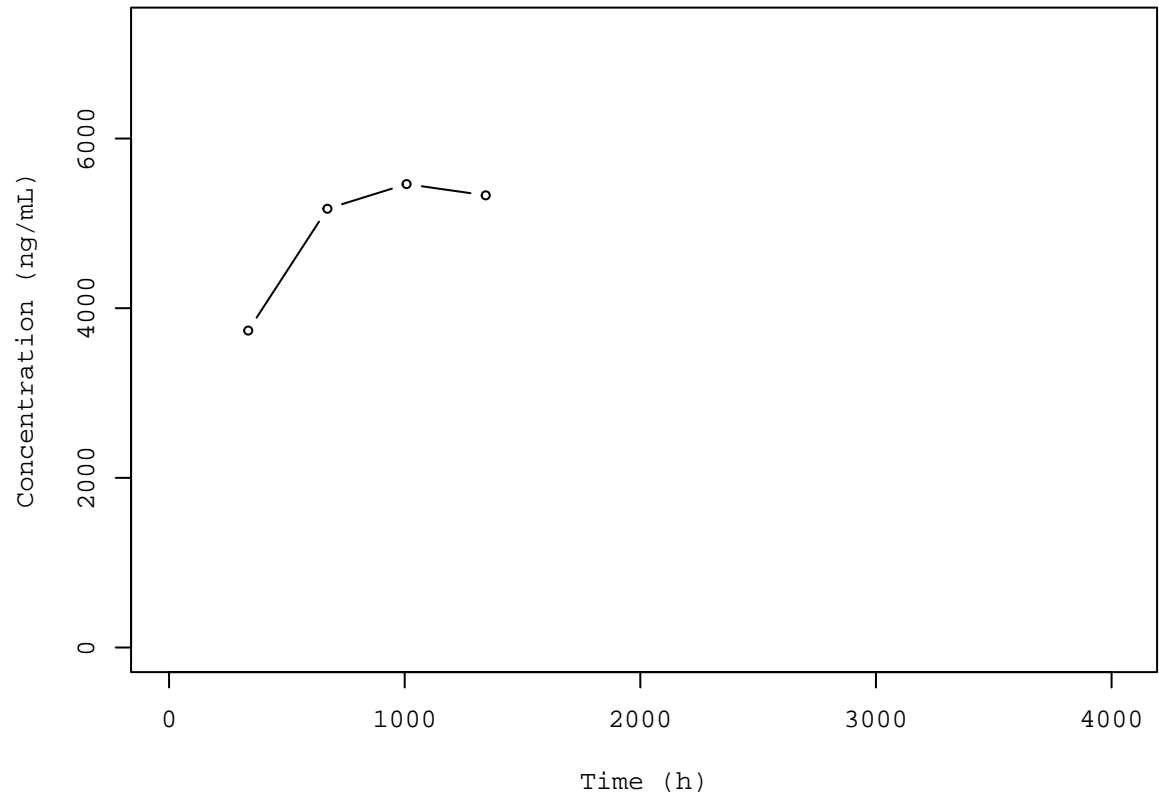
0.0000 +	3736.1588			0.0000	0.0000
336.0000	3736.1588			1255349.3680	210898693.8193
672.0000	5172.1606			2751947.0333	1005713631.1313
1008.0000	5462.9593			4538647.1708	2514749247.9729
1344.0000	5330.2147			6351900.3897	4643388449.6630

+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

C _{MAX}	Max Conc	5462.9593 ug/L
C _{MAXD}	Max Conc Norm by Dose	109.2592 ug/L/ug
T _{MAX}	Time of C _{MAX}	1008.0000 h
C _{LST}	Last Nonzero Conc	5330.2147 ug/L
T _{LST}	Time of Last Nonzero Conc	1344.0000 h
L _{AMZNPT}	Number of Points for Lambda z	0
A _{UCLST}	AUC to Last Nonzero Conc	6351900.3897 h*ug/L
A _{UCALL}	AUC All	6351900.3897 h*ug/L
A _{UMCLST}	AUMC to Last Nonzero Conc	4643388449.6630 h ² *ug/L
C ₀	Initial Conc	3736.1588 ug/L
M _{RTIVLST}	MRT Intravasc to Last Nonzero Conc	731.0235 h

ID=7



ID=8

Too few non-zero points for NCA

ID=8

