

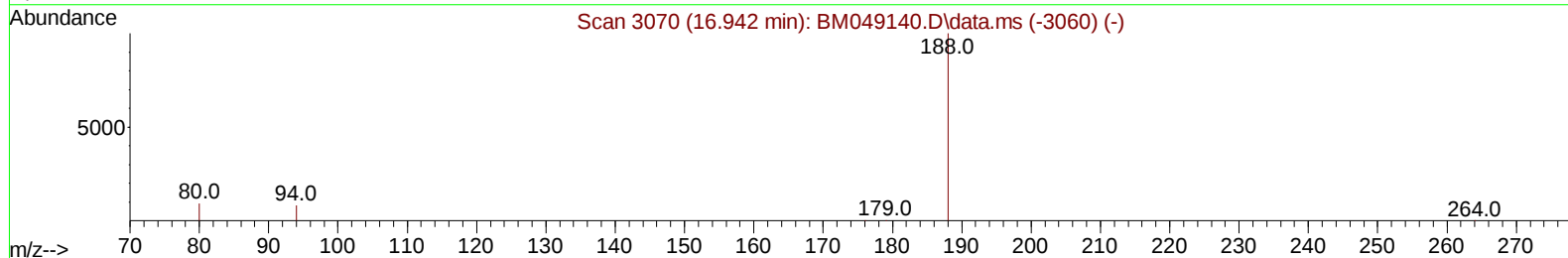
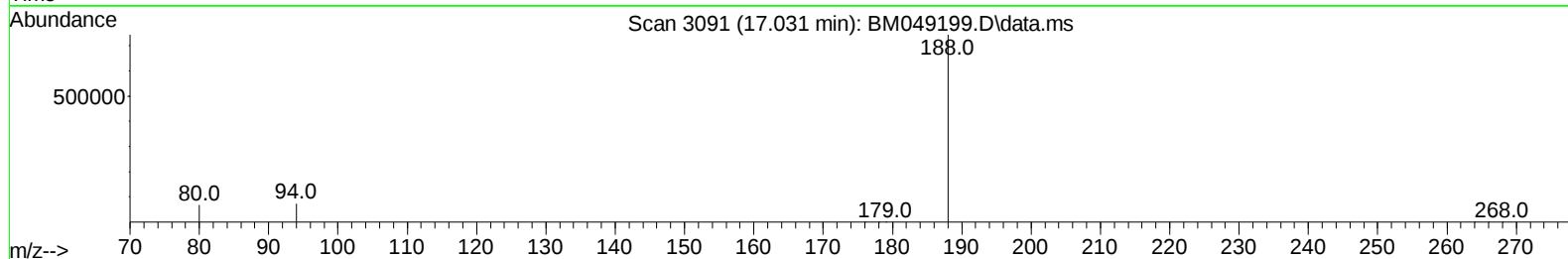
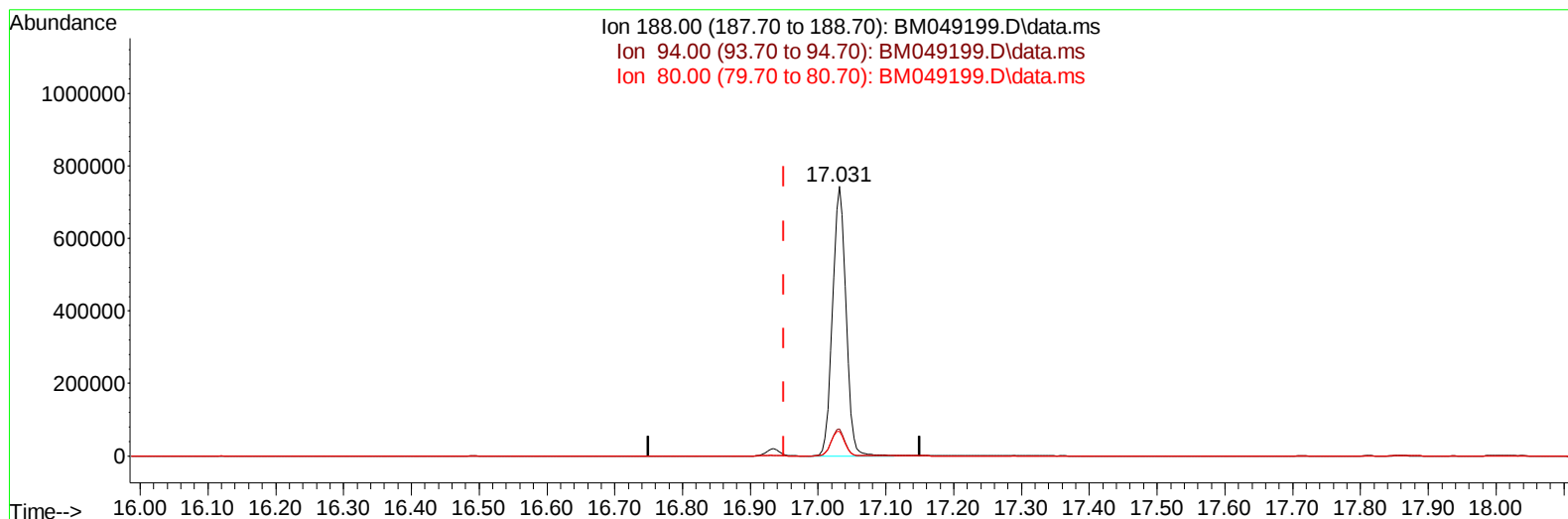
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(13) Phenanthrene-d10 (I)

17.031min (+ 0.082) 0.40 ng/u1

response 1019203

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	9.80	9.96
80.00	10.70	9.13
0.00	0.00	0.00

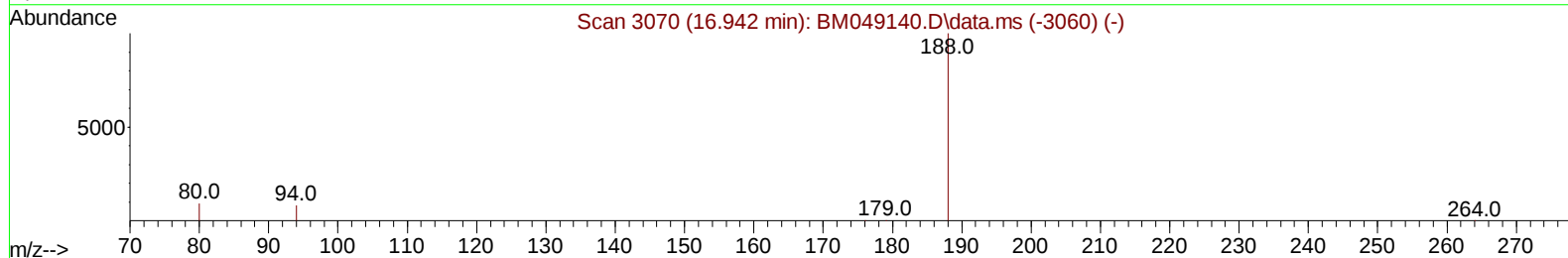
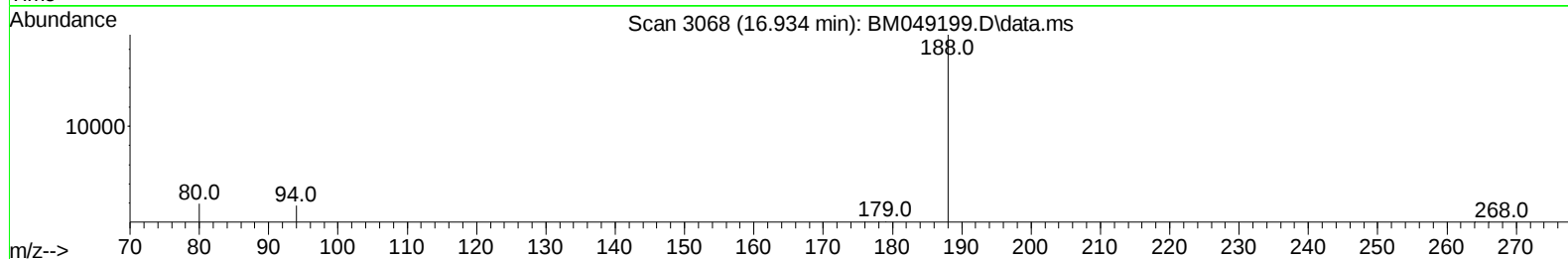
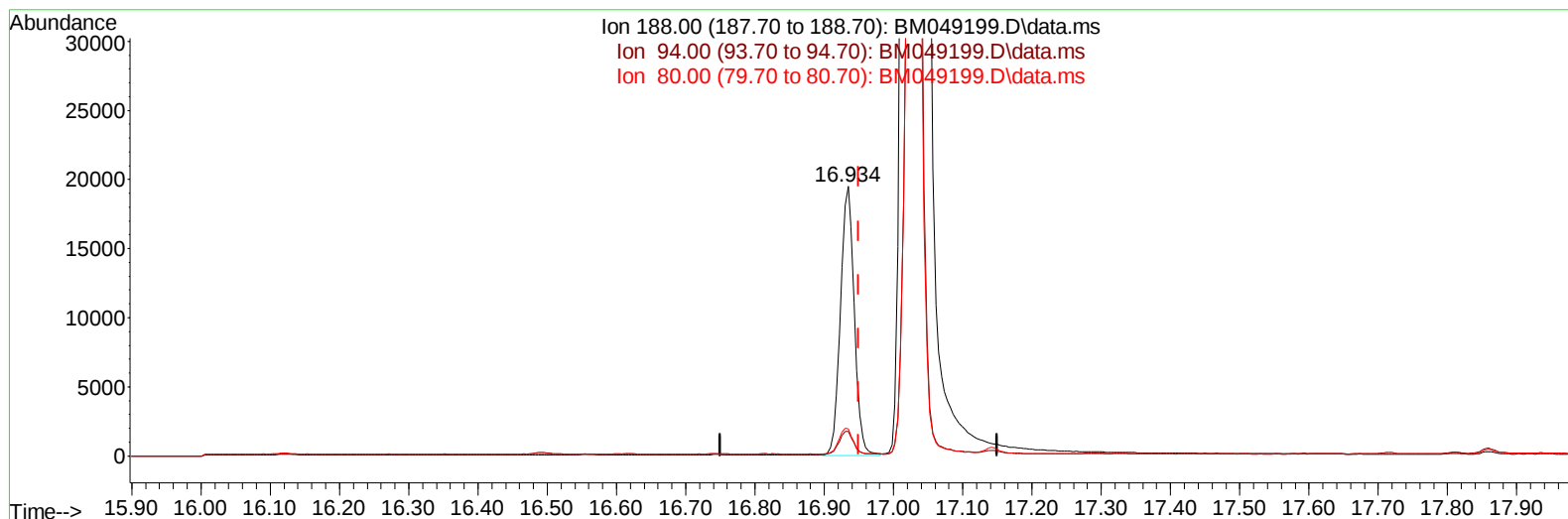
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(13) Phenanthrene-d10 (I)

16.934min (-0.016) 0.40 ng/ul m

response 26956

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	9.80	9.00
80.00	10.70	9.94
0.00	0.00	0.00

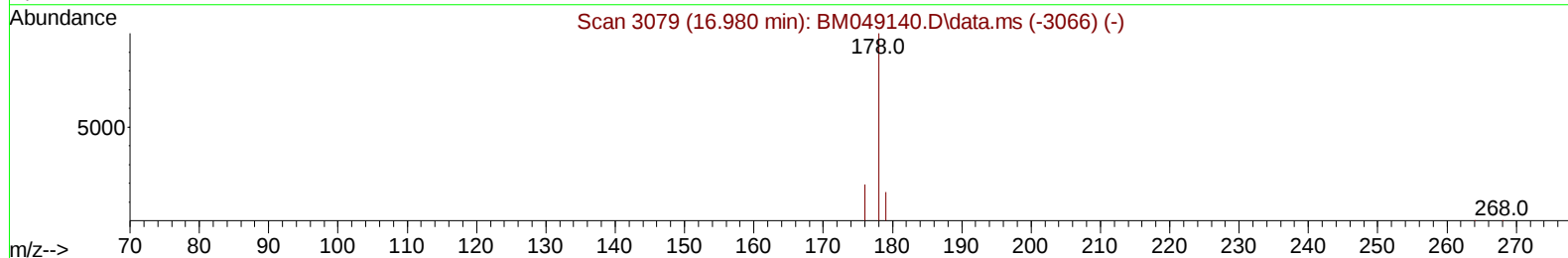
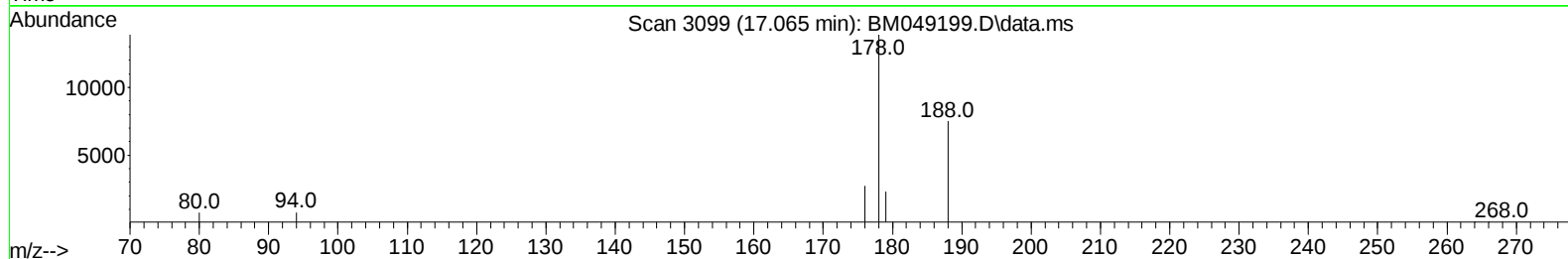
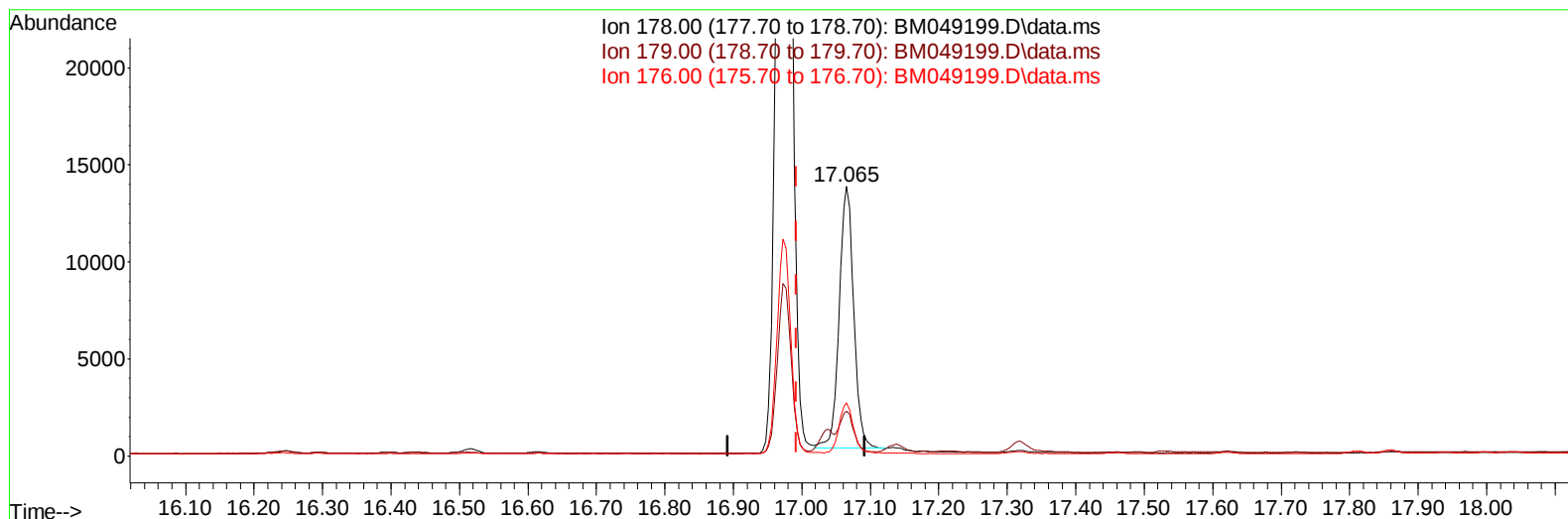
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(15) Phenanthrene

17.065min (+ 0.073) 0.28 ng/u1

response 19960

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.20	16.71
176.00	20.20	19.60
0.00	0.00	0.00

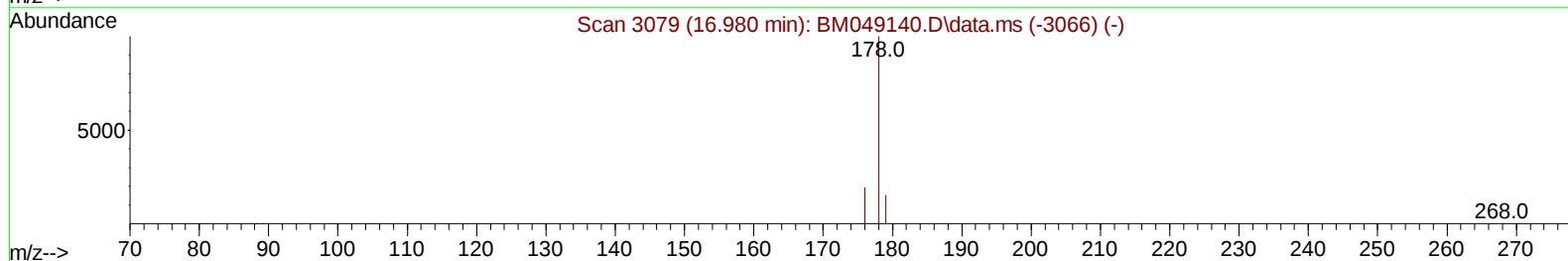
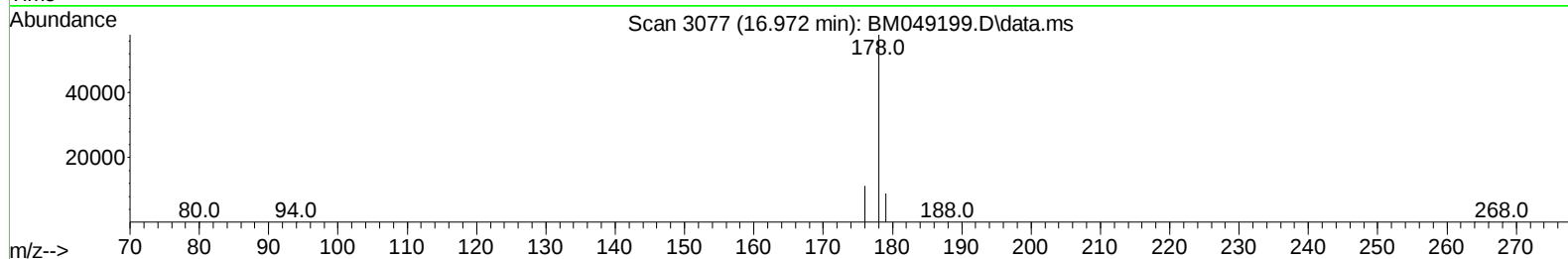
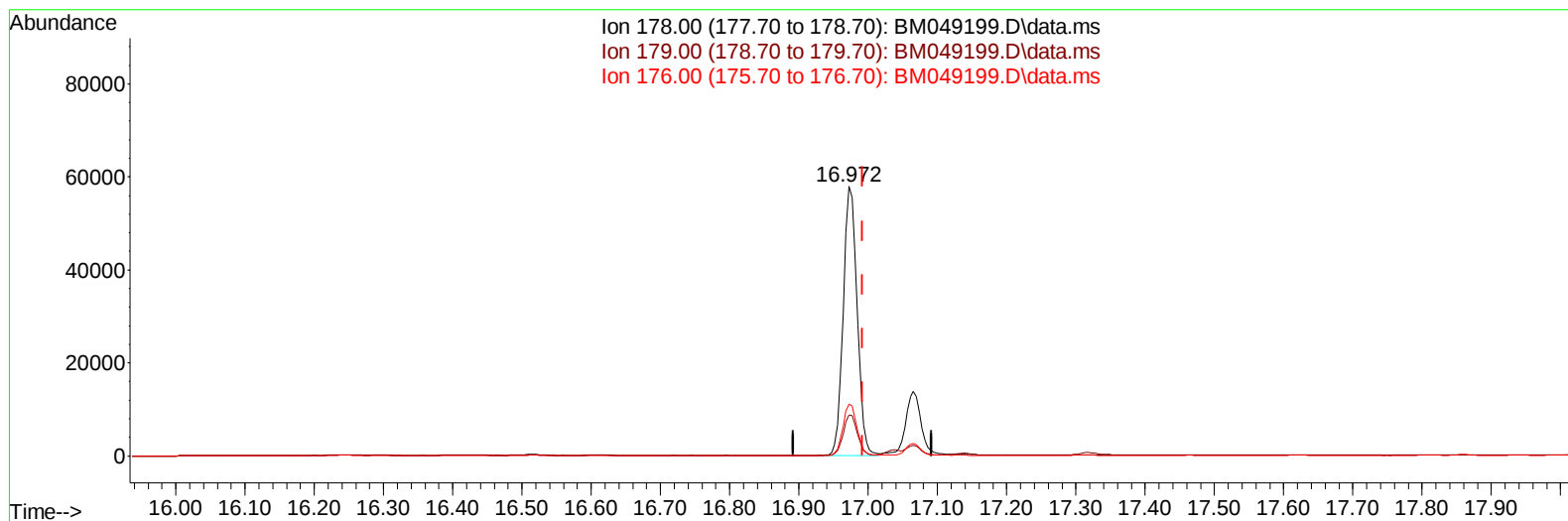
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(15) Phenanthrene

16.972min (-0.020) 1.14 ng/u1 m

response 80415

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.20	15.33
176.00	20.20	19.30
0.00	0.00	0.00

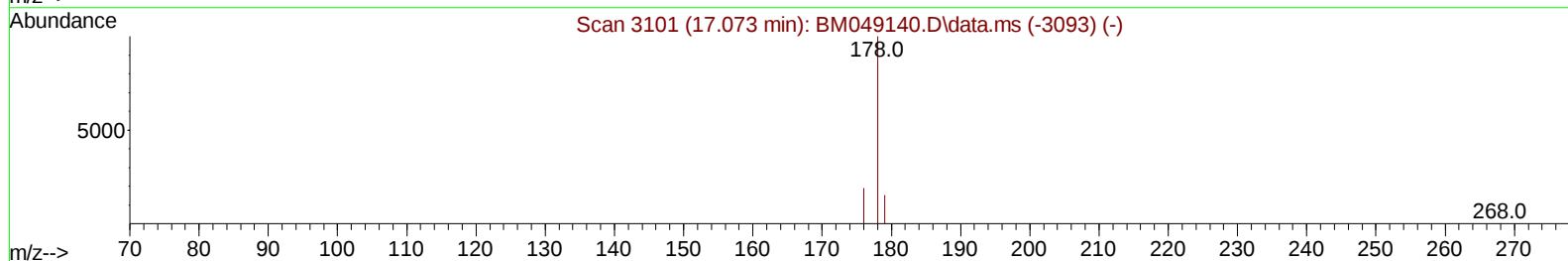
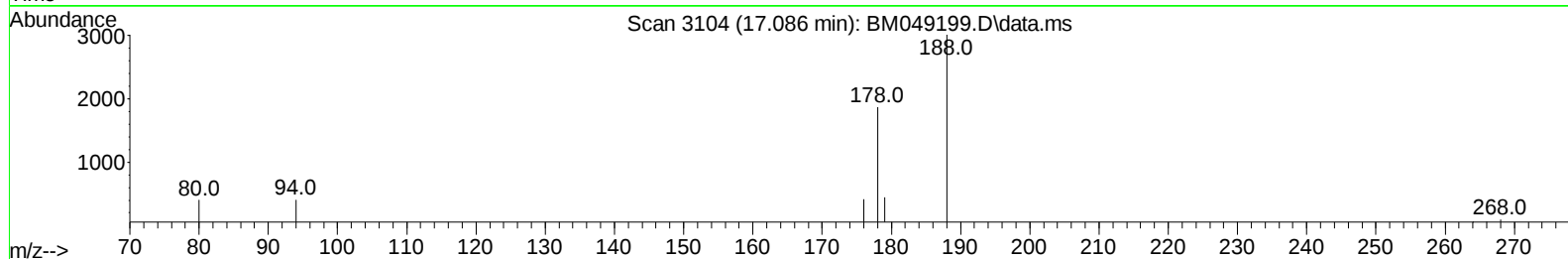
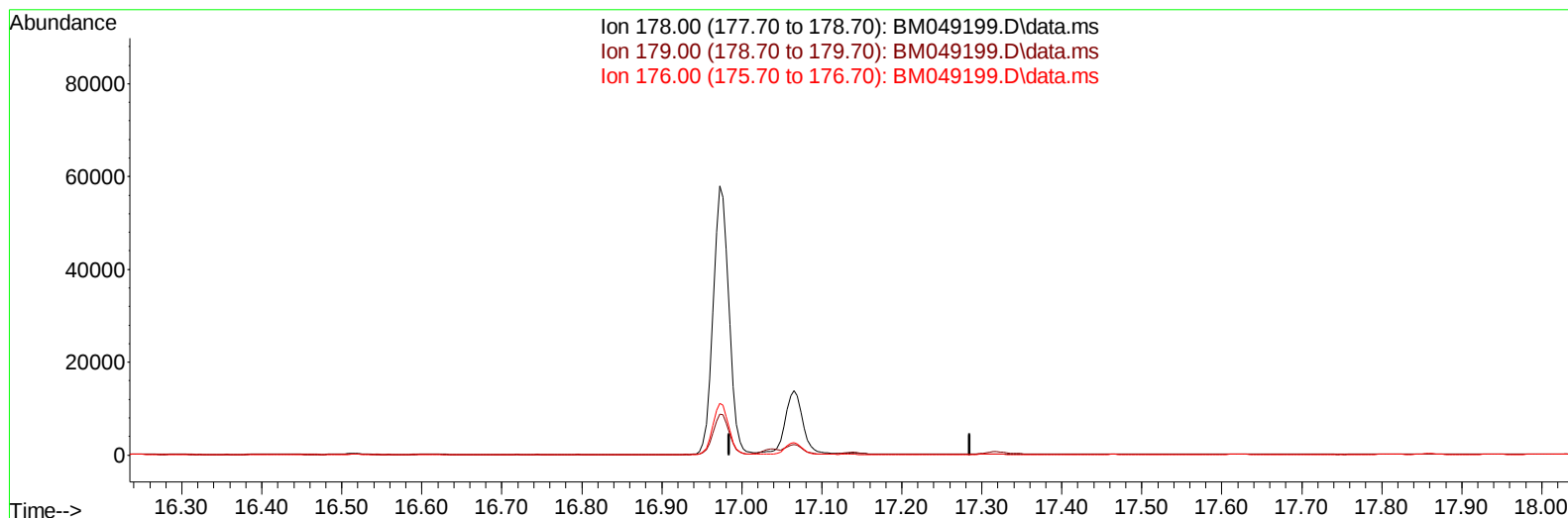
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(16) Anthracene

17.085min (-17.085) 0.00 ng/u1

response 0

Ion	Exp%	Act%
178.00	100.00	0.00
179.00	16.10	0.00#
176.00	19.10	0.00#
0.00	0.00	0.00

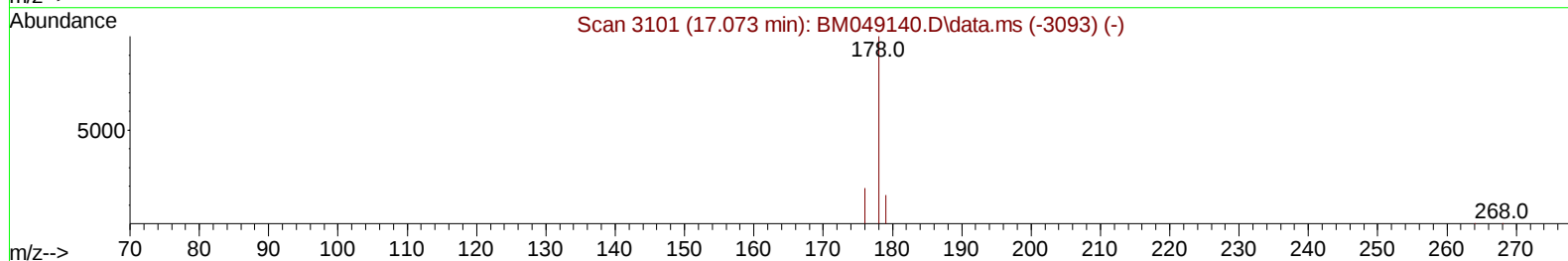
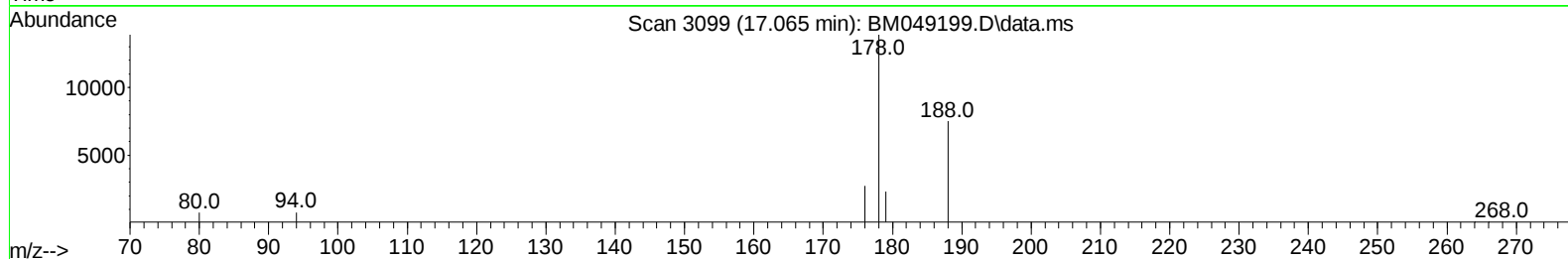
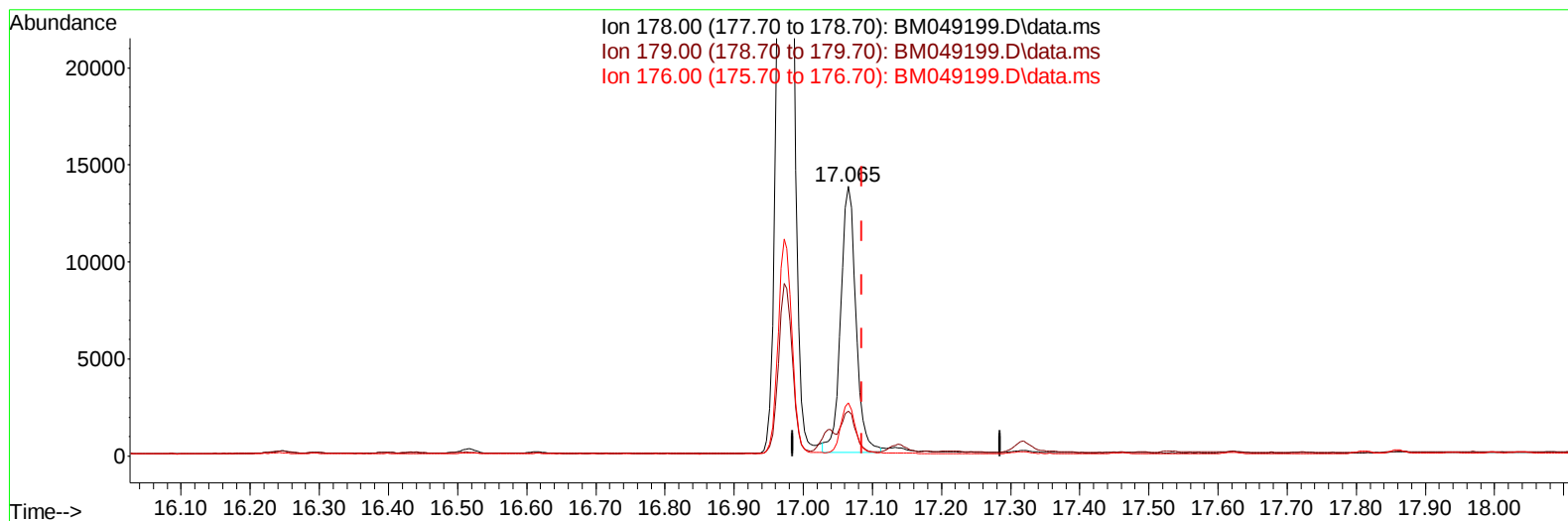
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(16) Anthracene

17.065min (-0.020) 0.33 ng/u1 m

response 21028

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.10	16.71
176.00	19.10	19.60
0.00	0.00	0.00

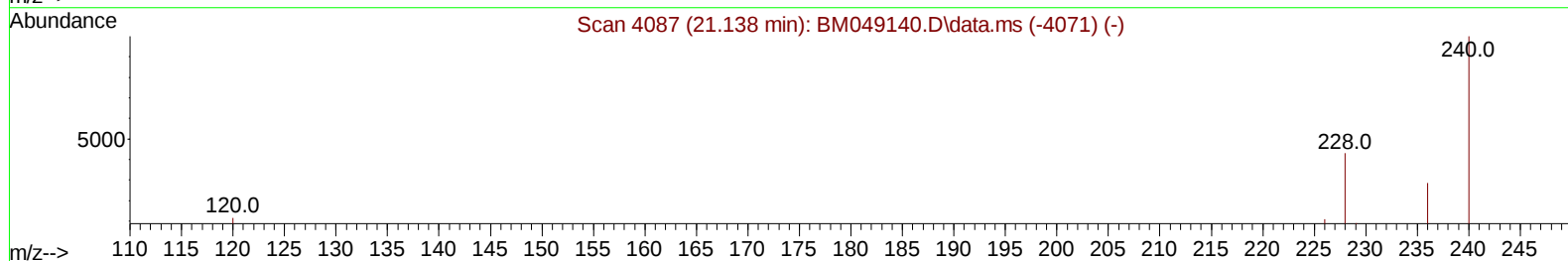
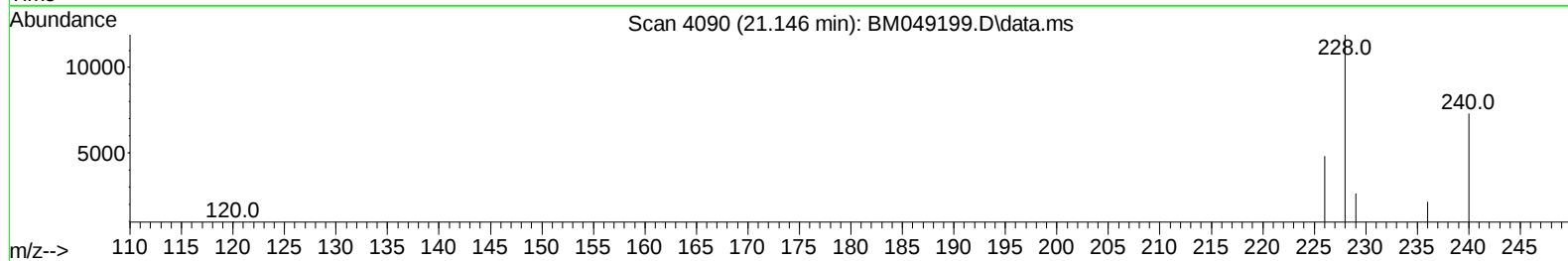
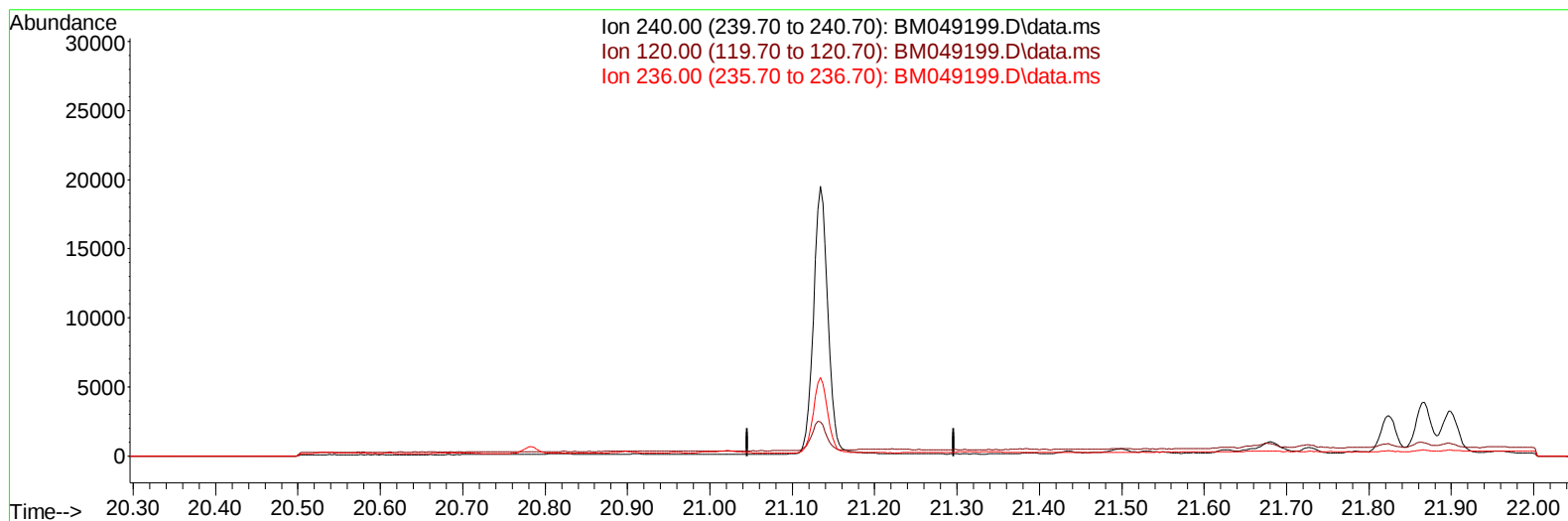
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(17) Chrysene-d12

21.146min (-21.146) 0.00 ng/u1

response 0

Ion	Exp%	Act%
240.00	100.00	0.00
120.00	14.50	0.00#
236.00	29.80	0.00#
0.00	0.00	0.00

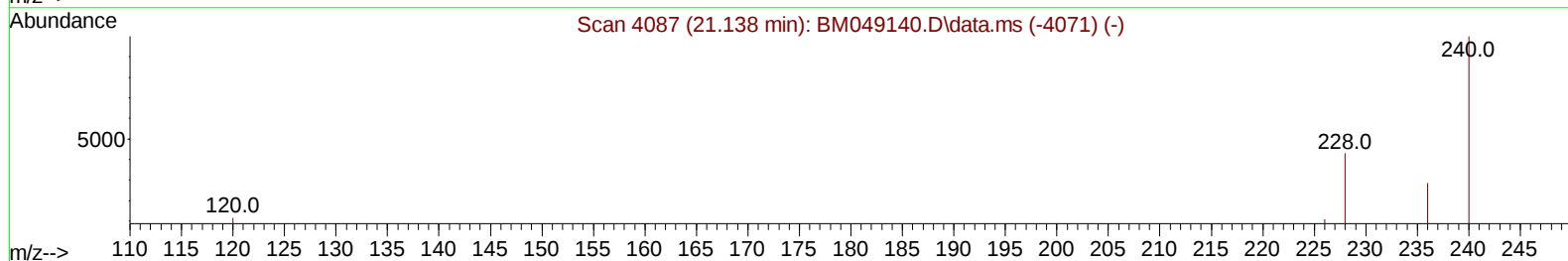
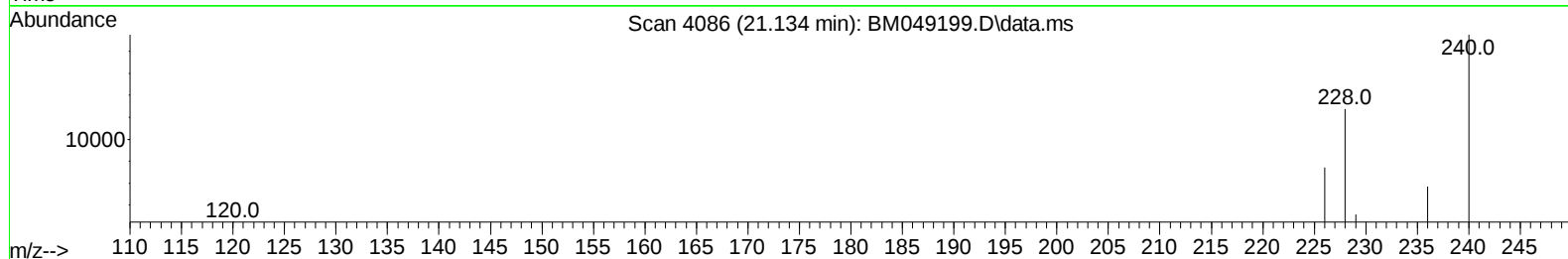
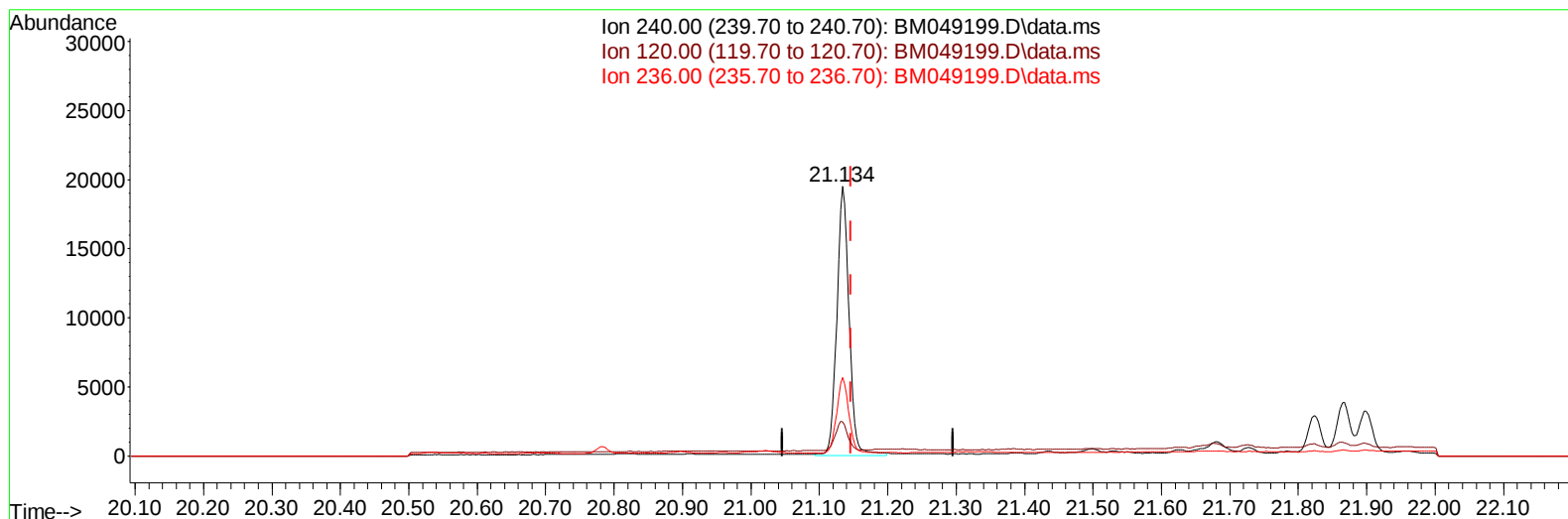
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(17) Chrysene-d12

21.134min (-0.012) 0.40 ng/ul m

response 24248

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	14.50	12.60
236.00	29.80	29.17
0.00	0.00	0.00

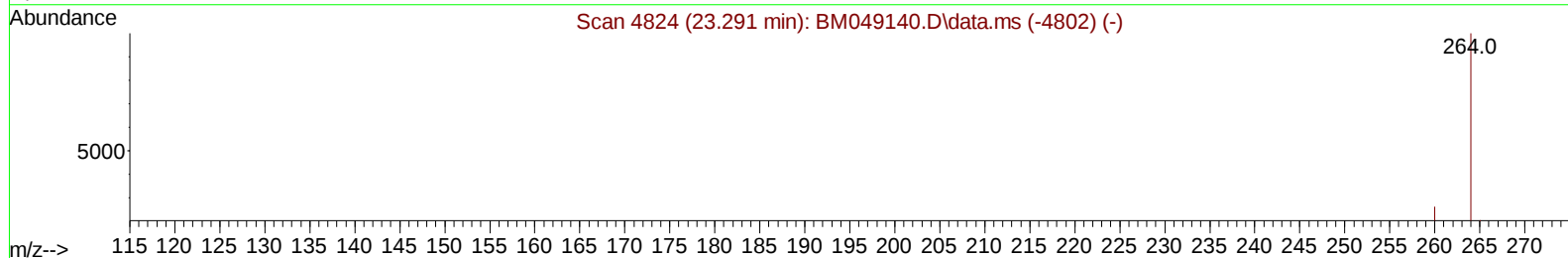
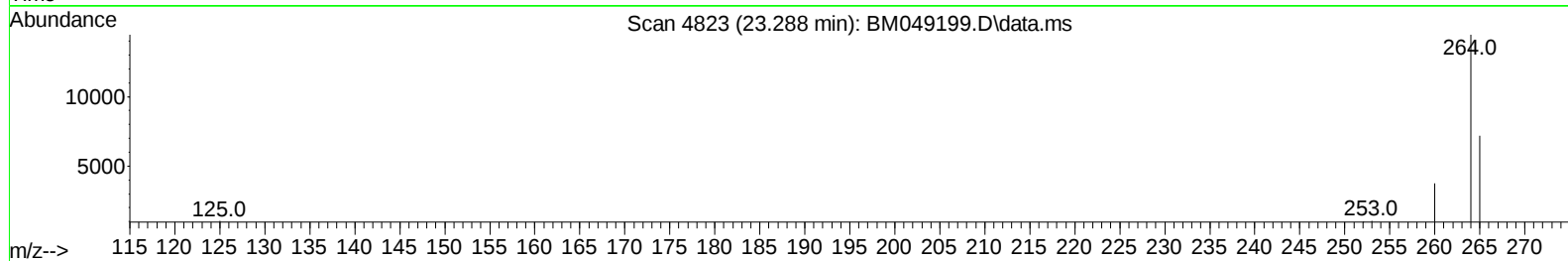
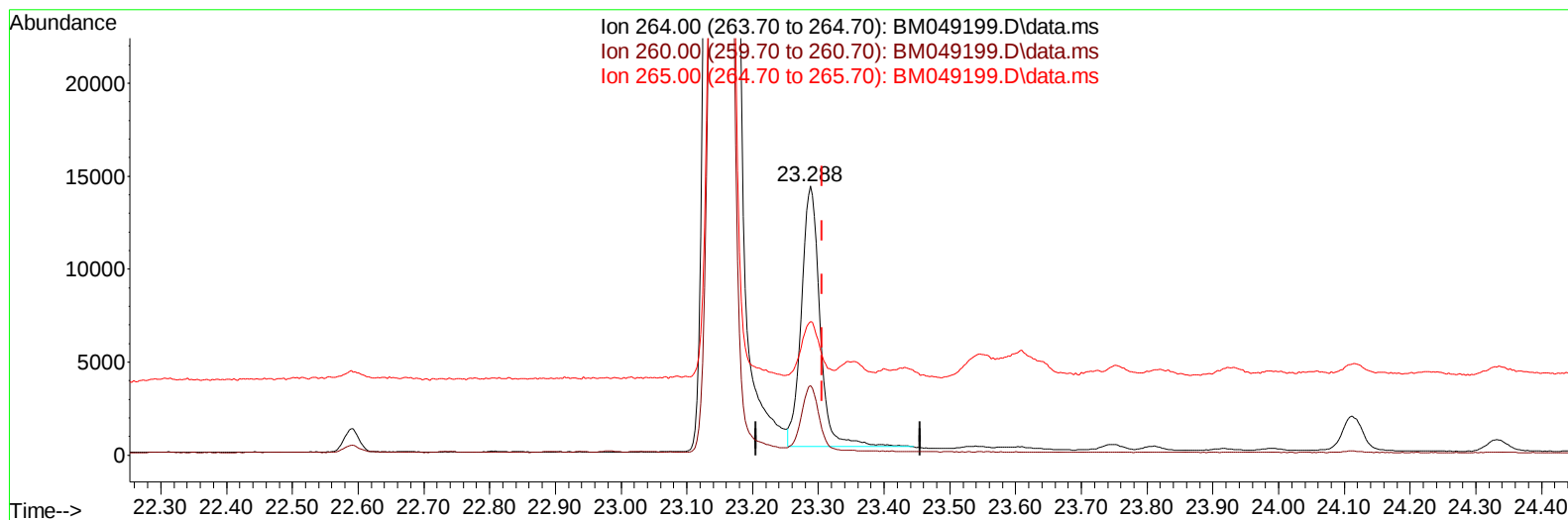
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
 Data File : BM049199.D
 Acq On : 25 Dec 2024 00:14
 Operator : RC/JU
 Sample : P5302-07
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 18 15:33:13 2024
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
 Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(23) Perylene-d12 (I)

23.288min (-0.018) 0.40 ng/u1

response 27801

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	25.80	25.94
265.00	78.30	49.63#
0.00	0.00	0.00

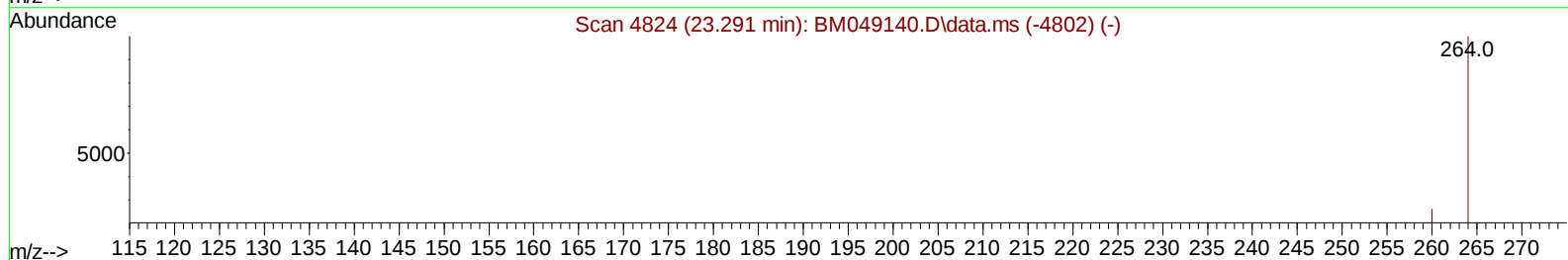
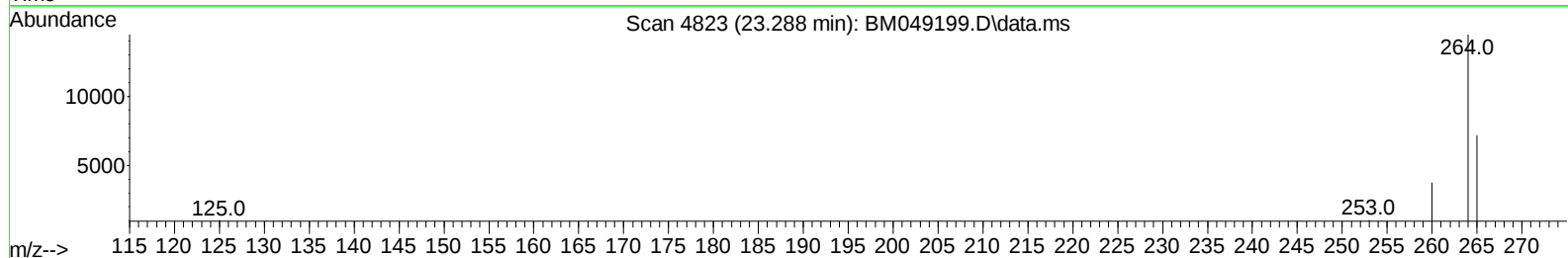
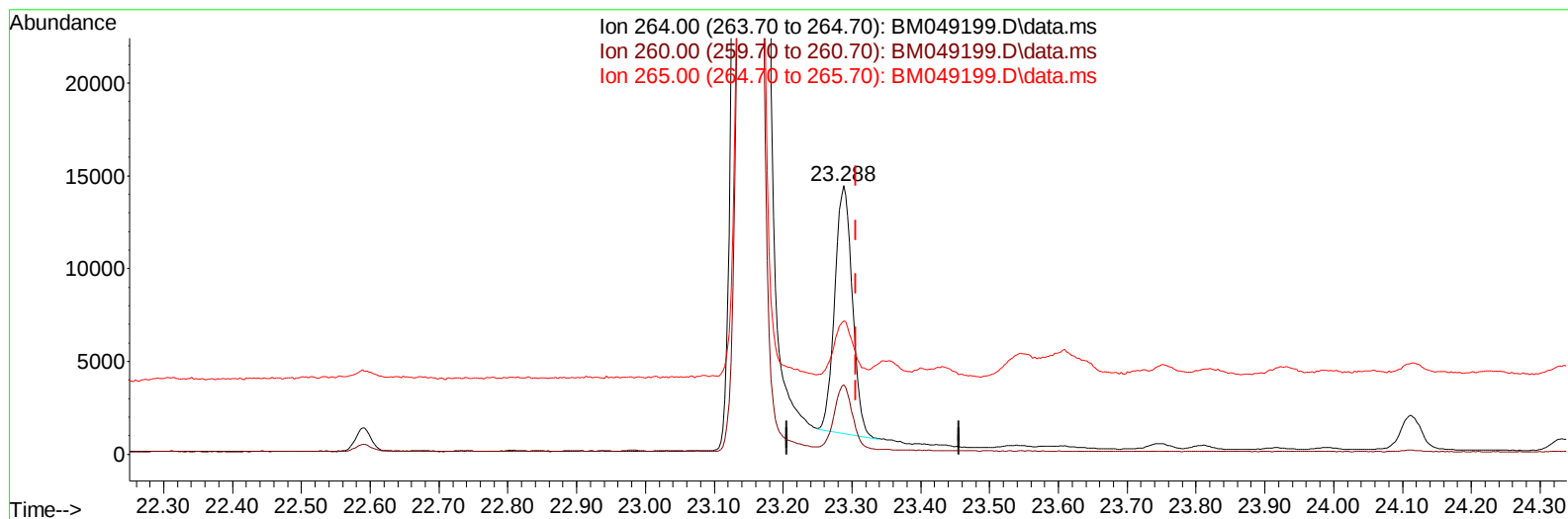
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(23) Perylene-d12 (I)

23.288min (-0.018) 0.40 ng/ul m

response 23720

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	25.80	25.94
265.00	78.30	49.63#
0.00	0.00	0.00

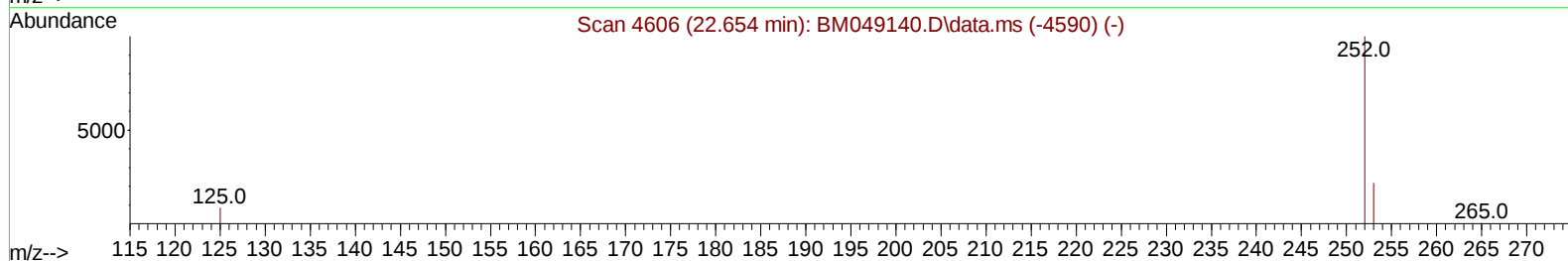
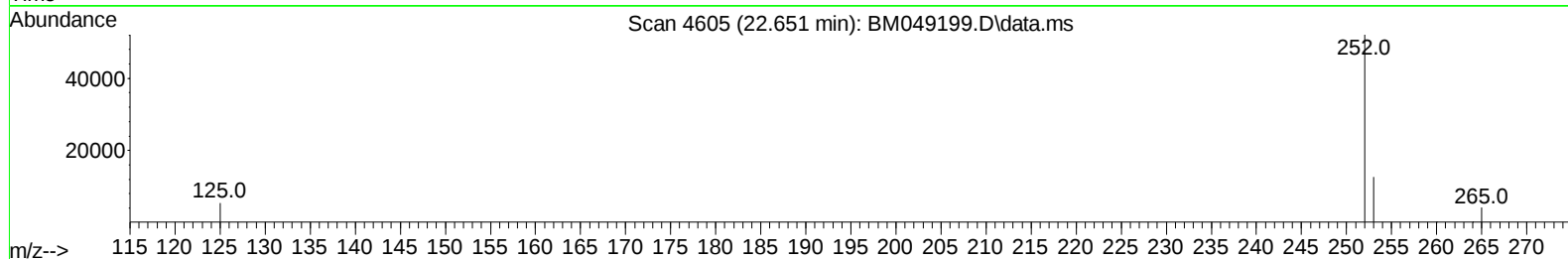
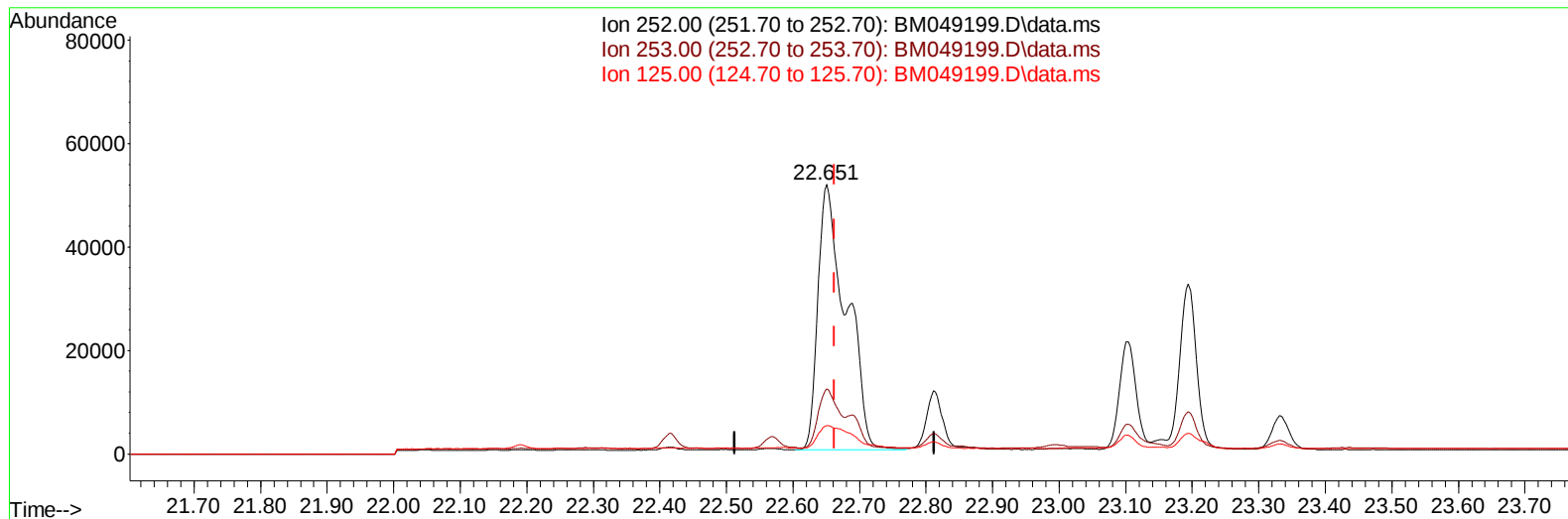
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(24) Benzo(b)fluoranthene

22.651min (-0.012) 1.99 ng/u1

response 150687

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.30	24.19
125.00	15.40	10.52
0.00	0.00	0.00

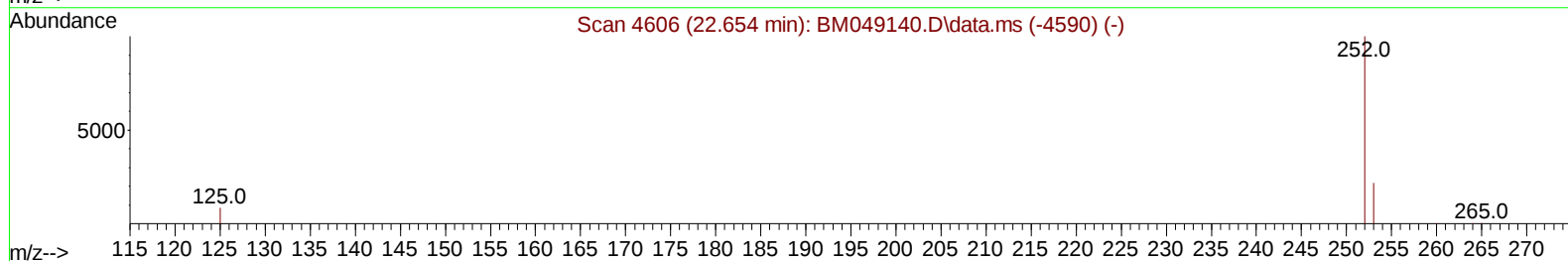
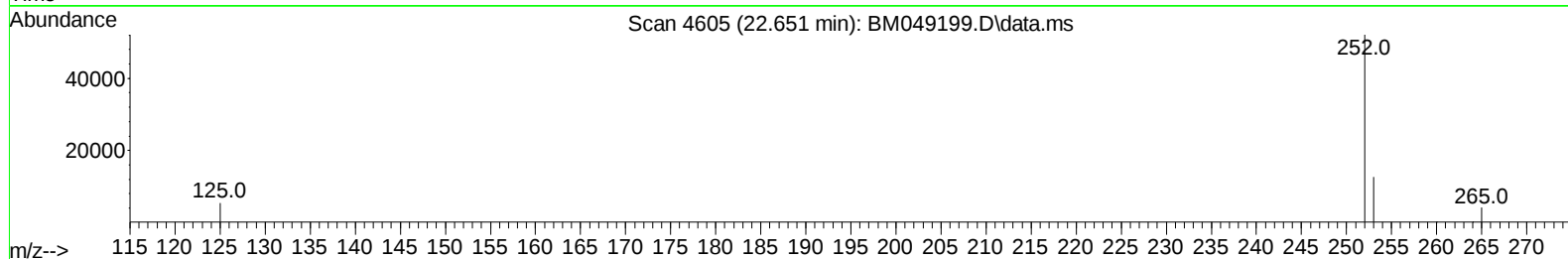
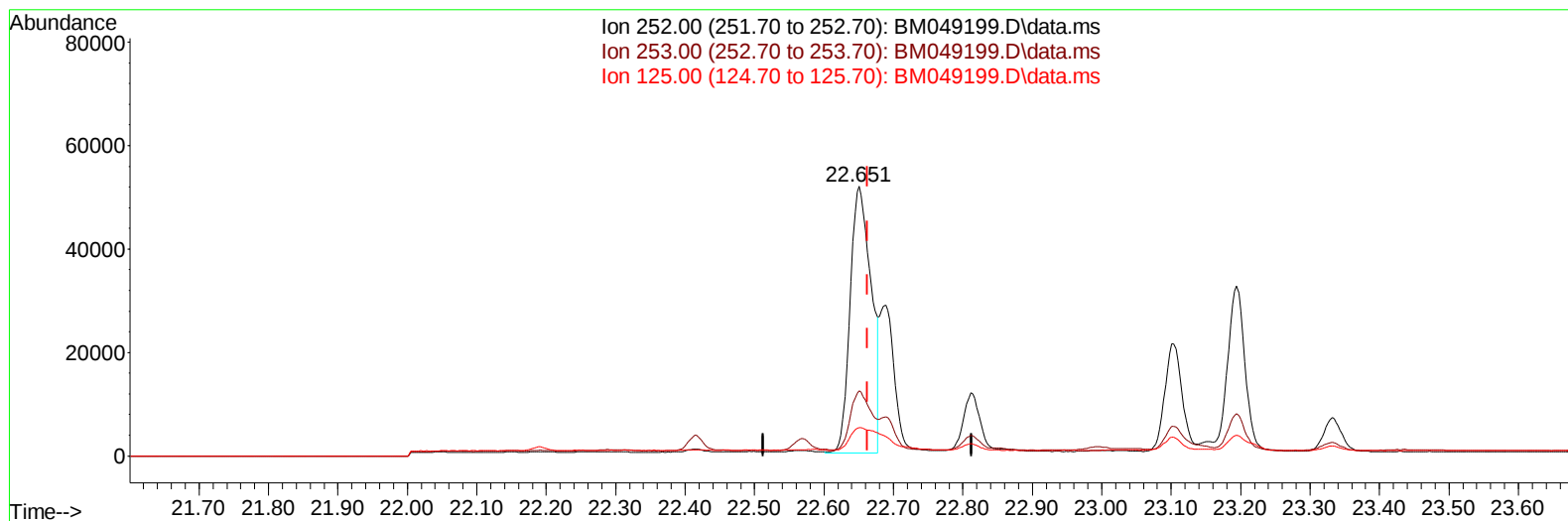
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(24) Benzo(b)fluoranthene

22.651min (-0.012) 1.43 ng/u1 m

response 108525

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.30	24.19
125.00	15.40	10.52
0.00	0.00	0.00

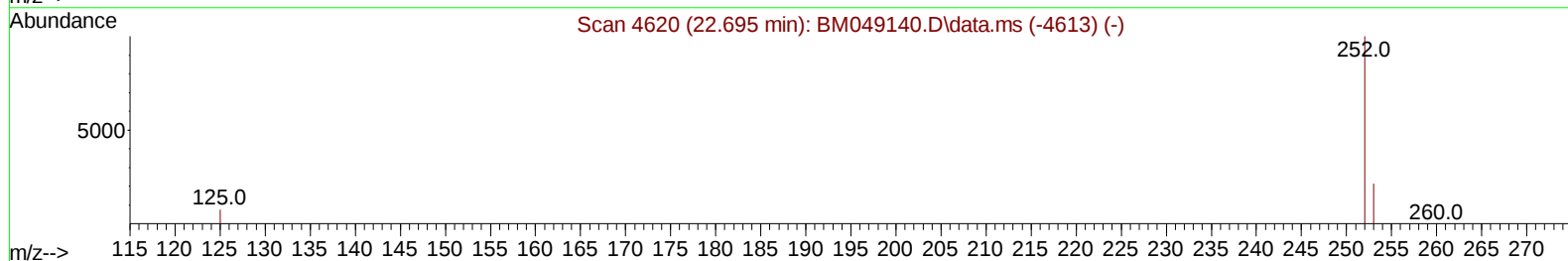
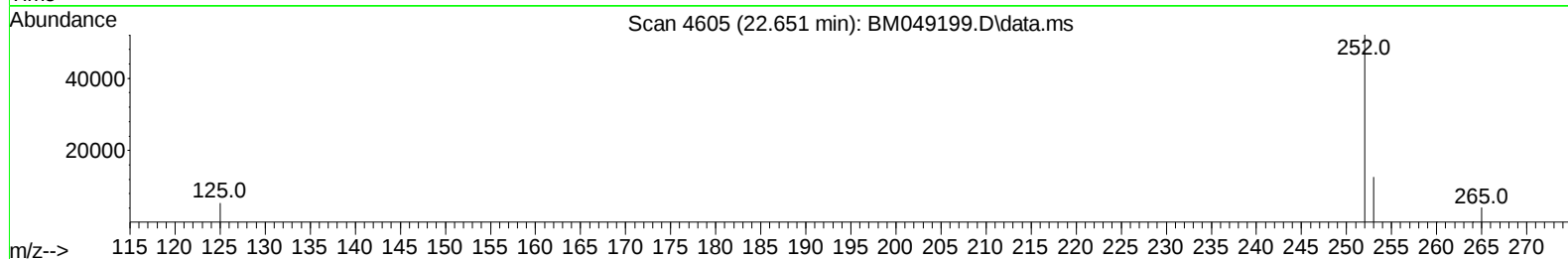
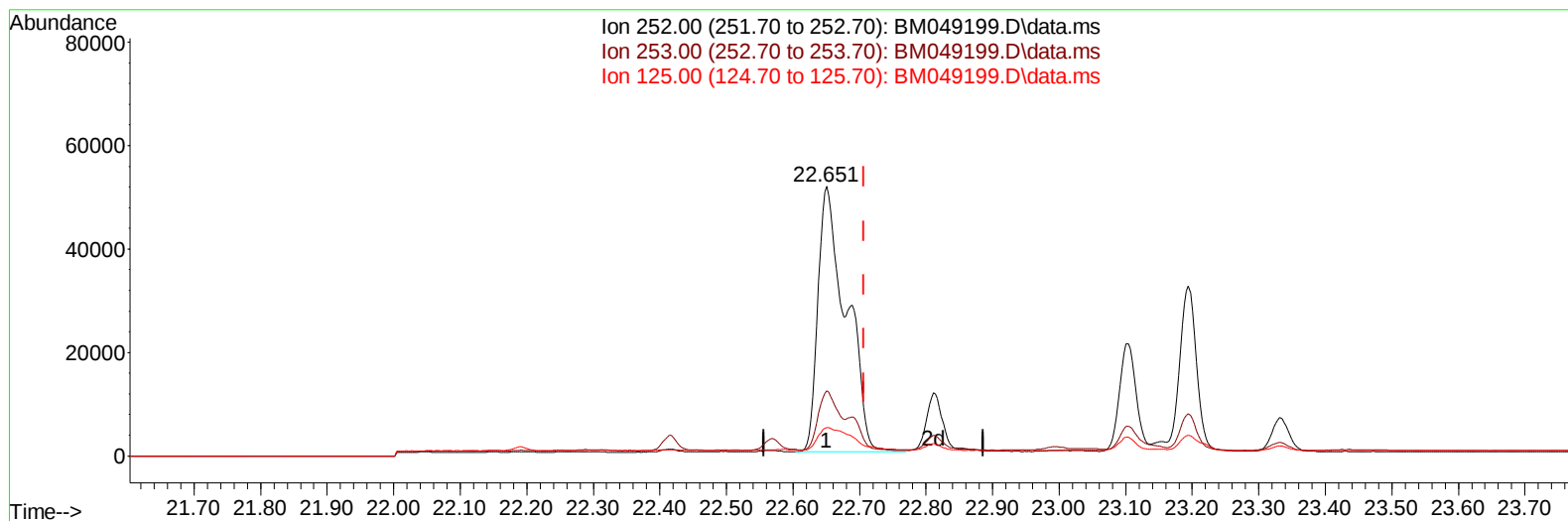
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(25) Benzo(k)fluoranthene

22.651min (-0.056) 1.81 ng/u1

response 150687

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.60	24.19
125.00	15.70	10.52#
0.00	0.00	0.00

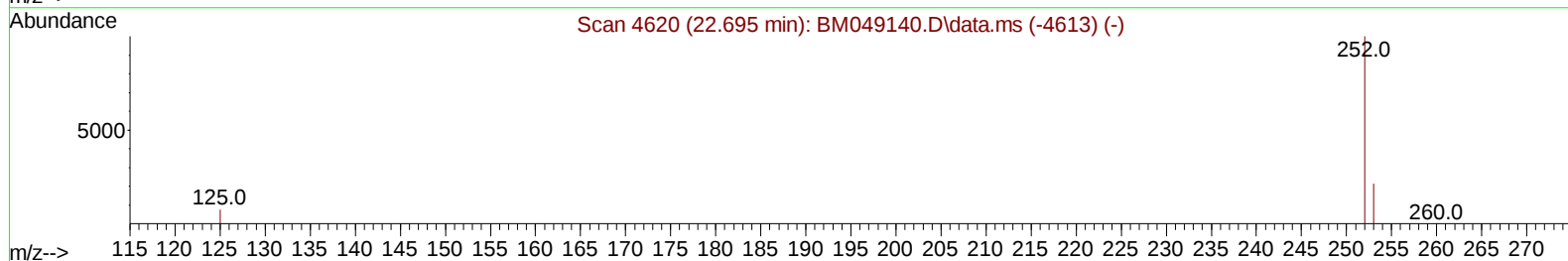
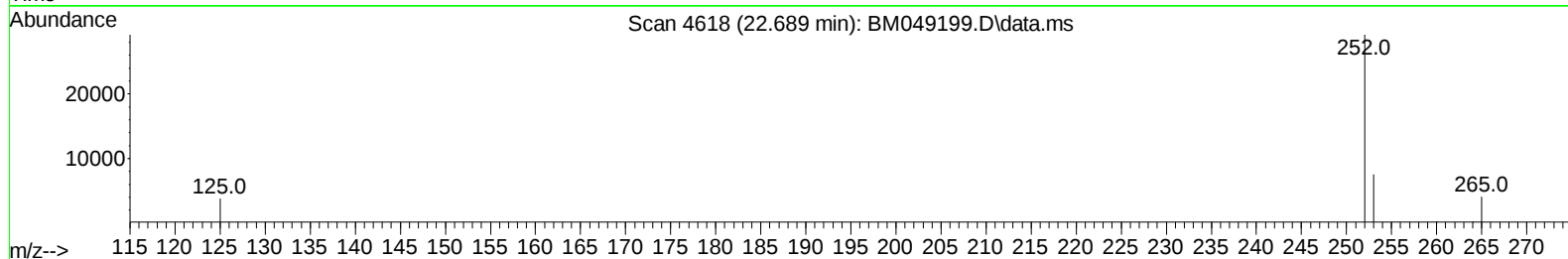
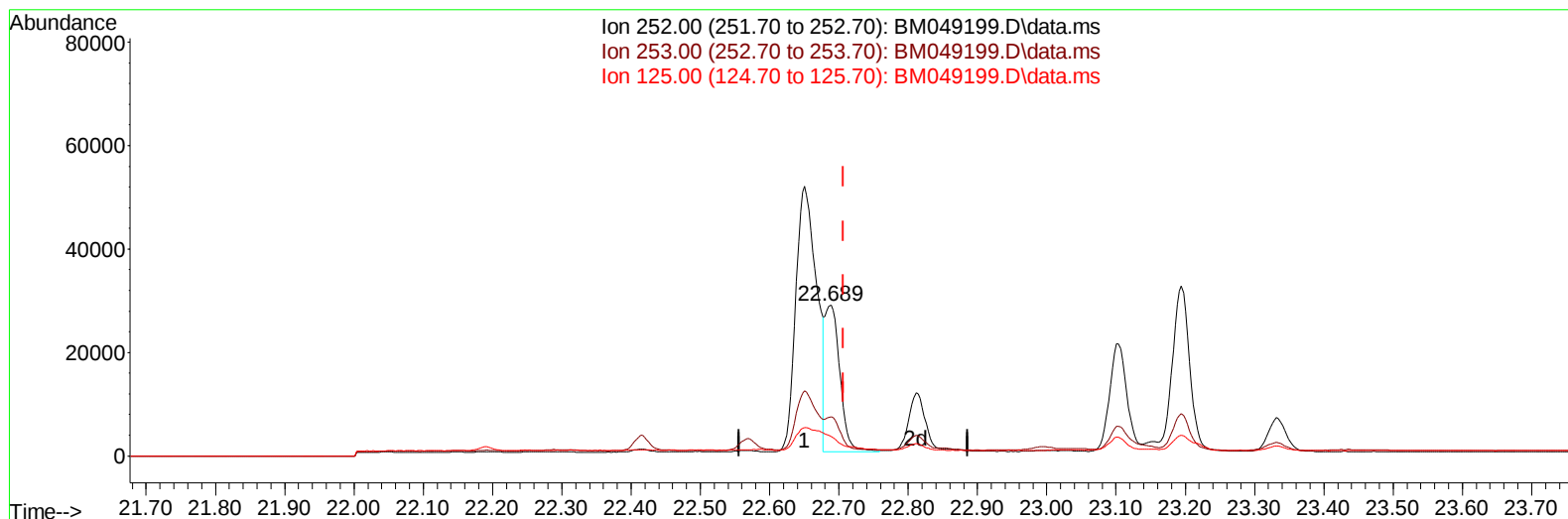
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(25) Benzo(k)fluoranthene

22.689min (-0.018) 0.52 ng/u1 m

response 42922

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.60	25.80
125.00	15.70	13.05
0.00	0.00	0.00

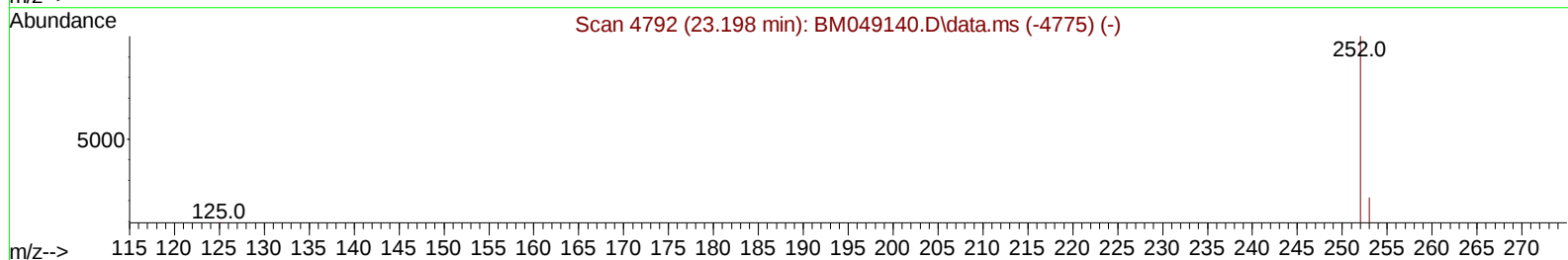
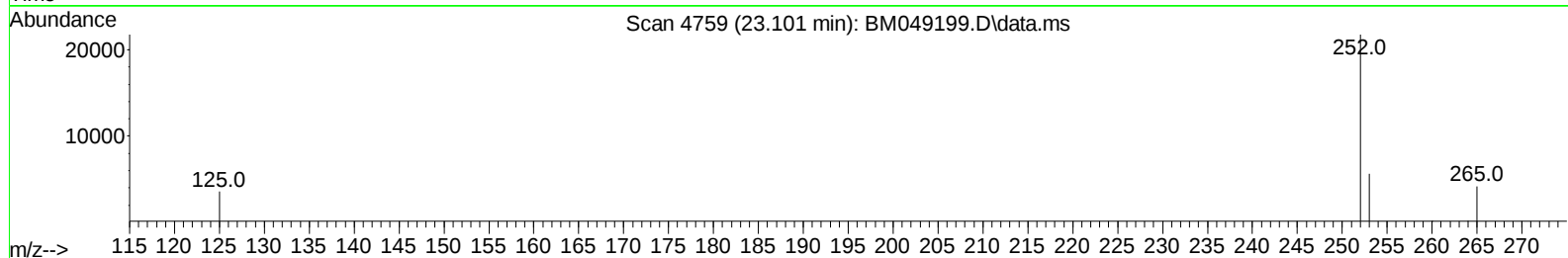
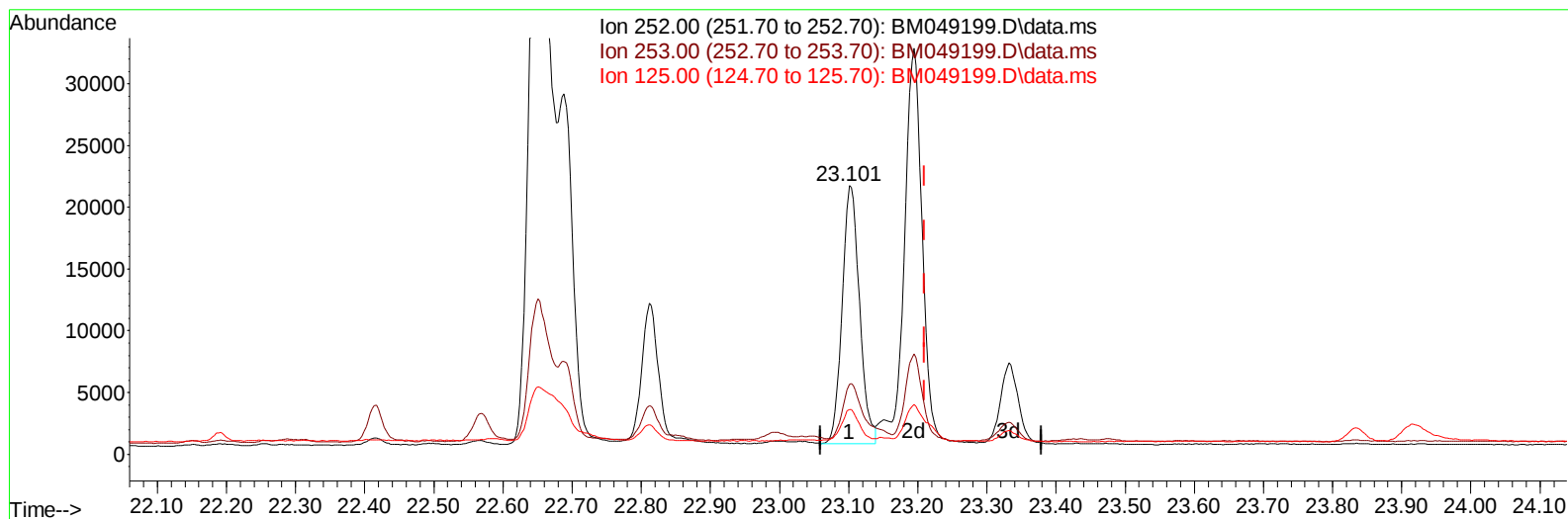
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
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TIC: BM049199.D\data.ms

(26) Benzo(a)pyrene (C)

23.101min (-0.109) 0.50 ng/u1

response 36530

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.00	26.04
125.00	18.50	16.55
0.00	0.00	0.00

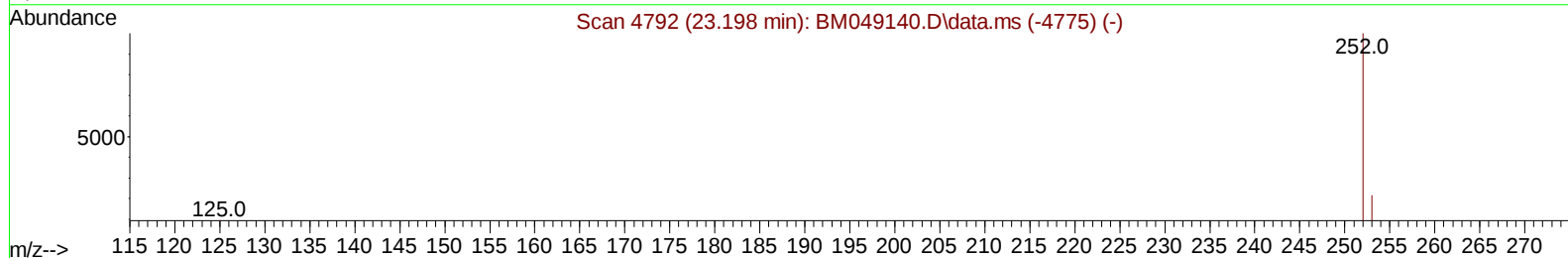
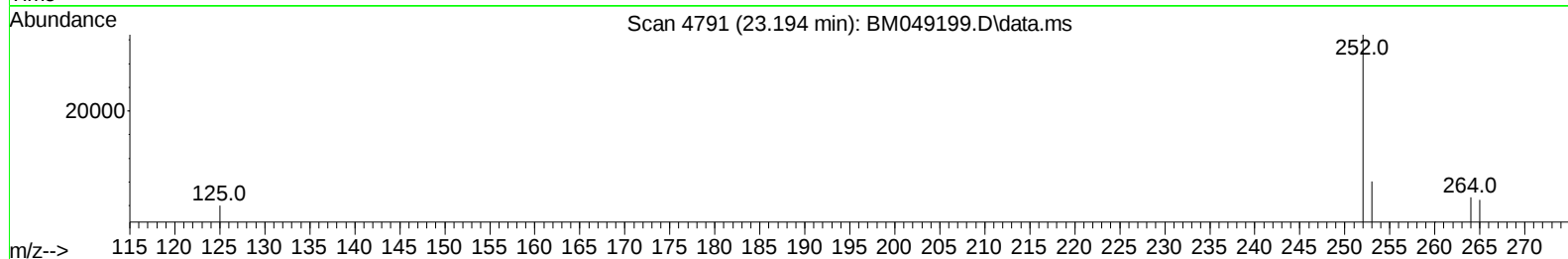
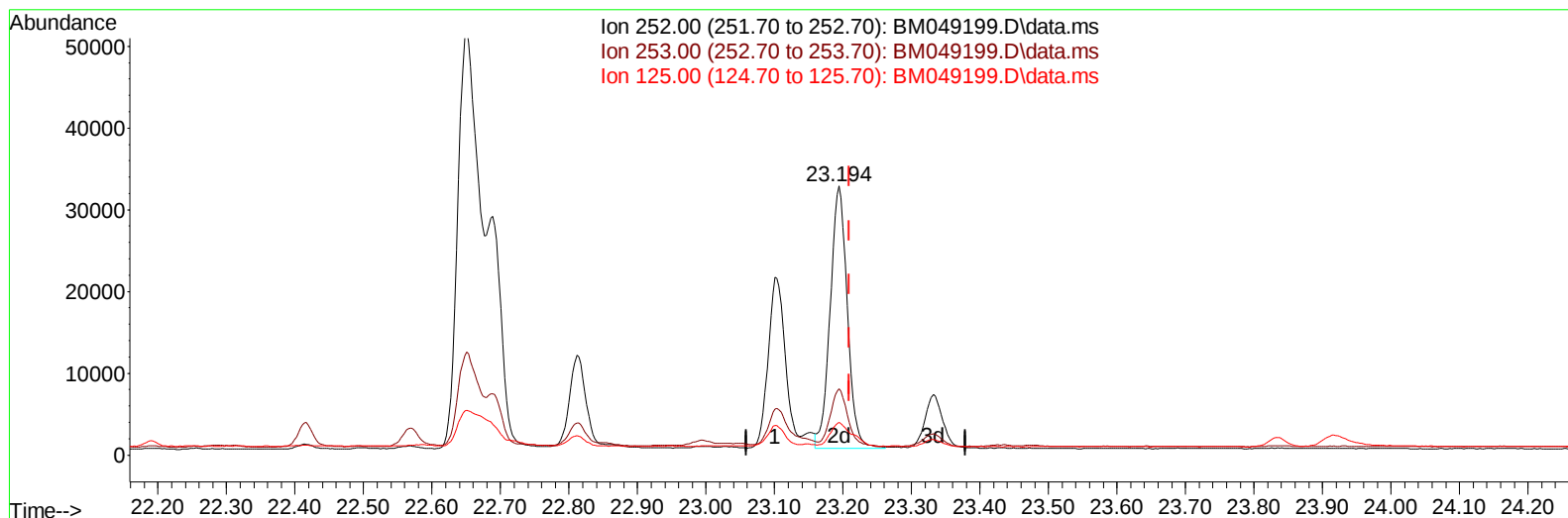
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049199.D
Acq On : 25 Dec 2024 00:14
Operator : RC/JU
Sample : P5302-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2AS0

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:52:14 2024
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Supervised By :mohammad ahmed 12/26/2024



TIC: BM049199.D\data.ms

(26) Benzo(a)pyrene (C)

23.194min (-0.015) 0.77 ng/u1 m

response 55906

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.00	24.70
125.00	18.50	12.21#
0.00	0.00	0.00

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 Operator : RC/JU
 Sample : P5302-07
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E2AS0

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
 Supervised By :mohammad ahmed 12/26/2024

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.548	152	7258	0.400	ng/ul	-0.02
4) Naphthalene-d8	10.310	136	21999	0.400	ng/ul	-0.02
9) Acenaphthene-d10	14.183	164	12085	0.400	ng/ul	-0.02
13) Phenanthrene-d10	16.934	188	26956m	0.400	ng/ul	-0.02
17) Chrysene-d12	21.134	240	24248m	0.400	ng/ul	-0.01
23) Perylene-d12	23.288	264	23720m	0.400	ng/ul	-0.02
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.143	96	21067	2.517	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.904	152	4832	0.163	ng/ul	-0.02
18) Fluoranthene-d10	18.970	212	12511	0.182	ng/ul	-0.01
Target Compounds						
					Qvalue	
5) Naphthalene	10.359	128	2749	0.050	ng/ul#	90
7) 2-Methylnaphthalene	11.981	142	897	0.026	ng/ul	96
8) 1-Methylnaphthalene	12.207	142	805	0.023	ng/ul	96
10) Acenaphthylene	13.901	152	24462	0.488	ng/ul	100
11) Acenaphthene	14.248	153	1030	0.028	ng/ul	94
12) Fluorene	15.238	166	5612	0.136	ng/ul	98
15) Phenanthrene	16.972	178	80415m	1.142	ng/ul	
16) Anthracene	17.065	178	21028m	0.325	ng/ul	
19) Fluoranthene	18.997	202	190463	2.172	ng/ul	99
20) Pyrene	19.365	202	130653	1.397	ng/ul	97
21) Benzo(a)anthracene	21.116	228	75060	0.890	ng/ul	97
22) Chrysene	21.169	228	74575	0.824	ng/ul	97
24) Benzo(b)fluoranthene	22.651	252	108525m	1.432	ng/ul	
25) Benzo(k)fluoranthene	22.689	252	42922m	0.516	ng/ul	
26) Benzo(a)pyrene	23.194	252	55906m	0.769	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.417	276	50895	0.495	ng/ul	93
28) Dibenzo(a,h)anthracene	25.423	278	12746	0.160	ng/ul	92
29) Benzo(g,h,i)perylene	26.067	276	29664	0.359	ng/ul	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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