

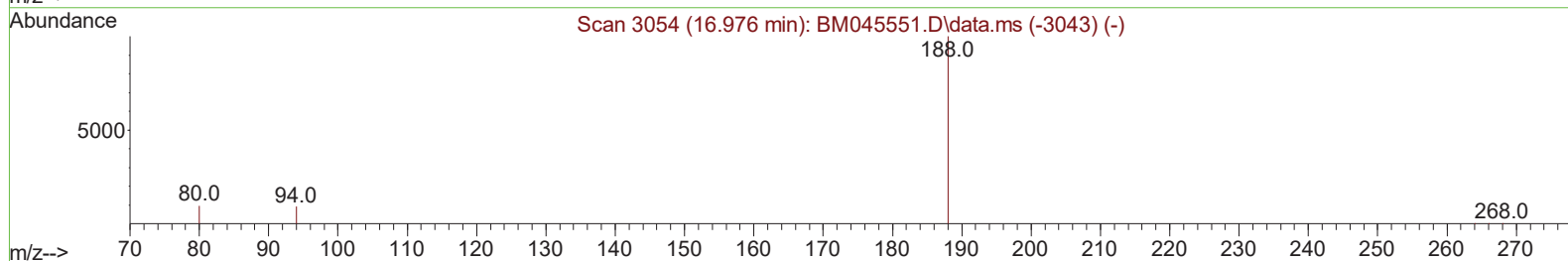
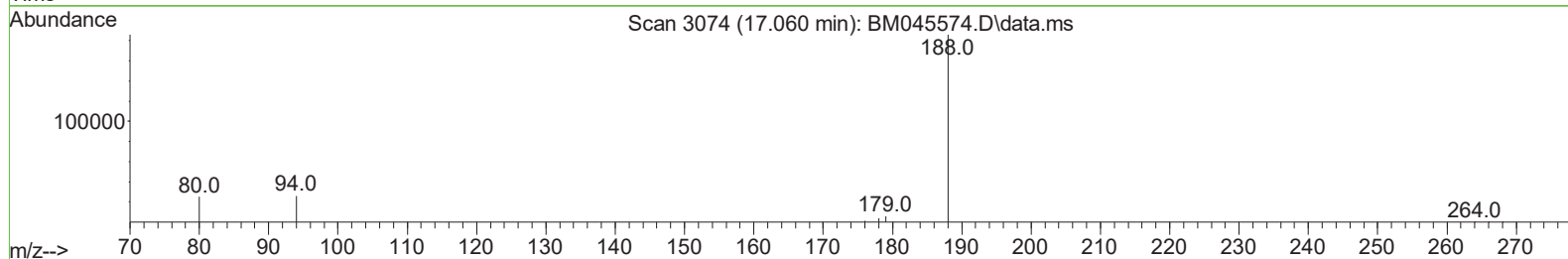
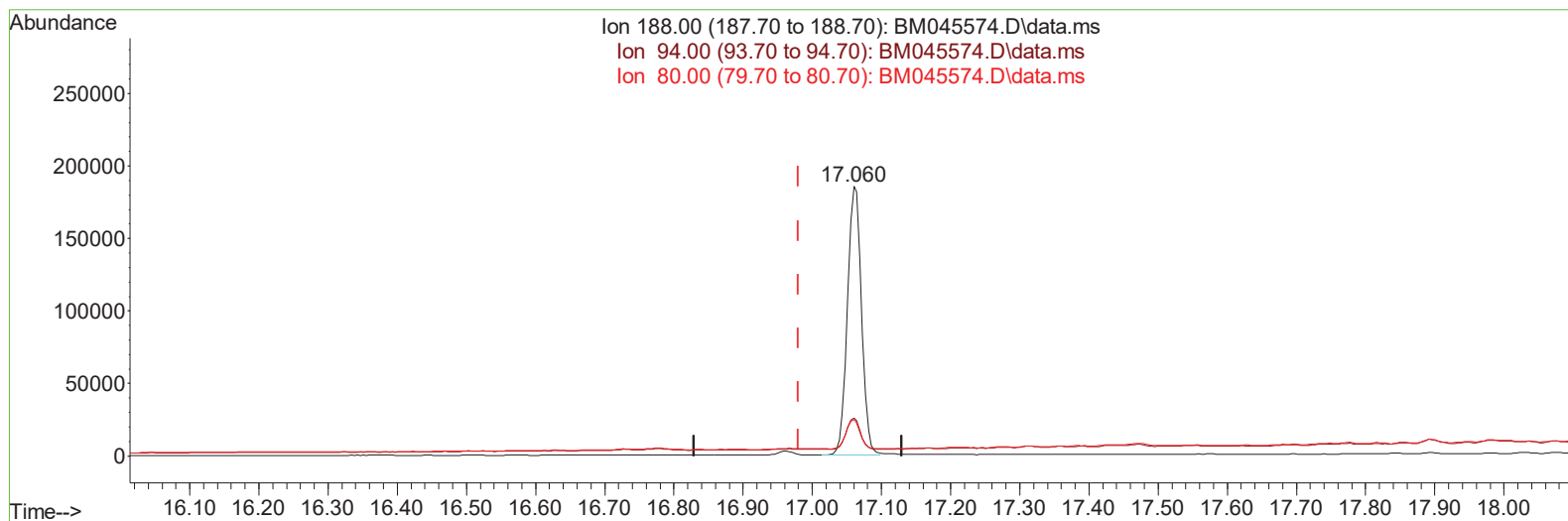
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(13) Phenanthrene-d10 (I)

17.060min (+ 0.080) 0.40 ng/u1

response 261302

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	14.80	14.07
80.00	14.80	13.49
0.00	0.00	0.00

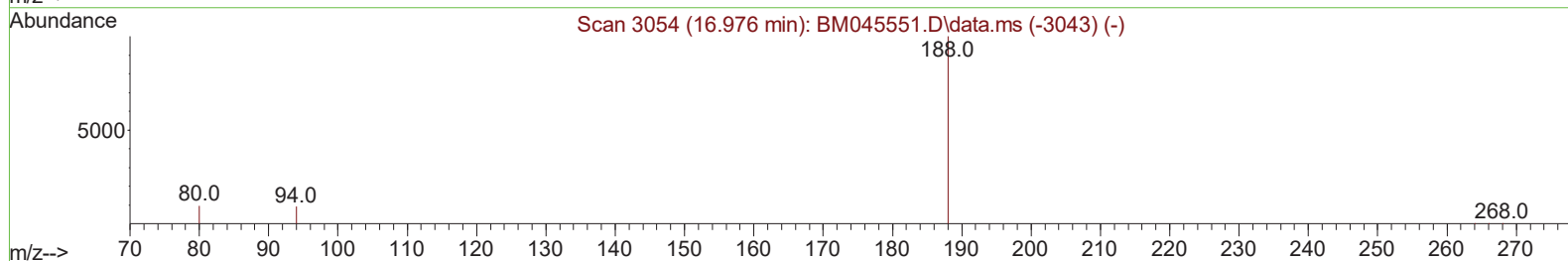
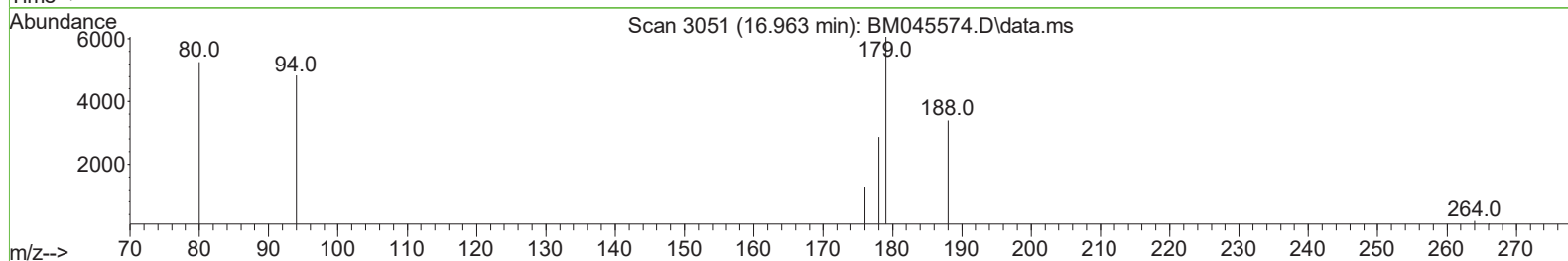
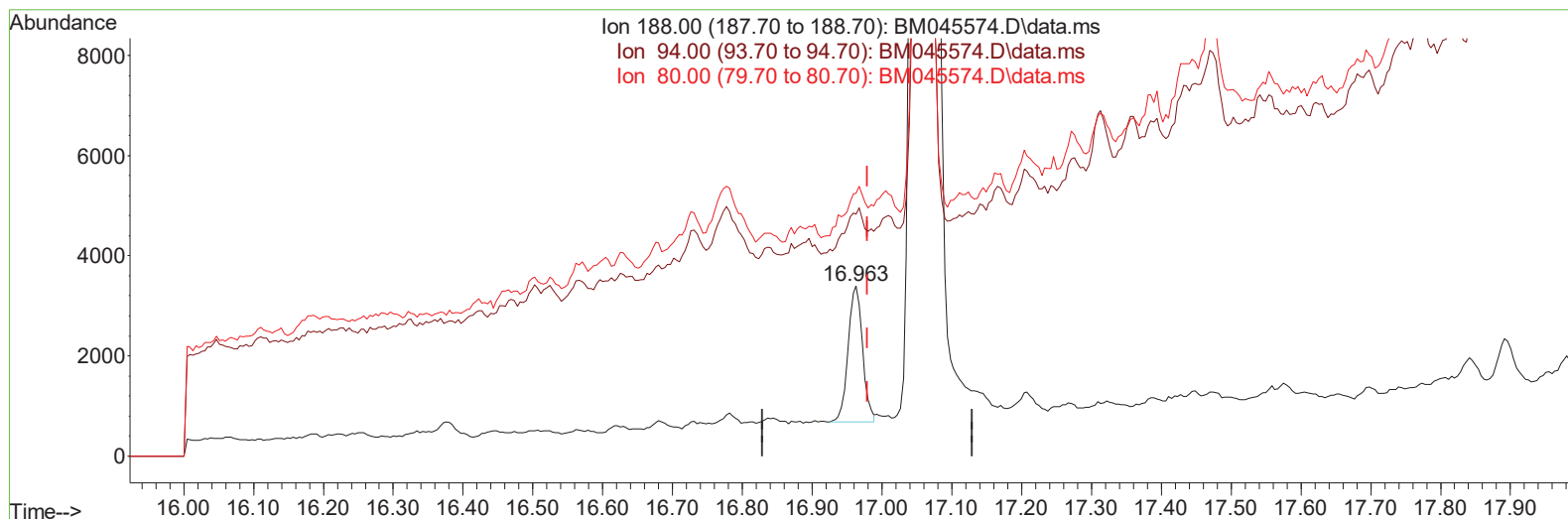
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(13) Phenanthrene-d10 (I)

16.963min (-0.017) 0.40 ng/ul m

response 3880

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	14.80	141.83#
80.00	14.80	154.50#
0.00	0.00	0.00

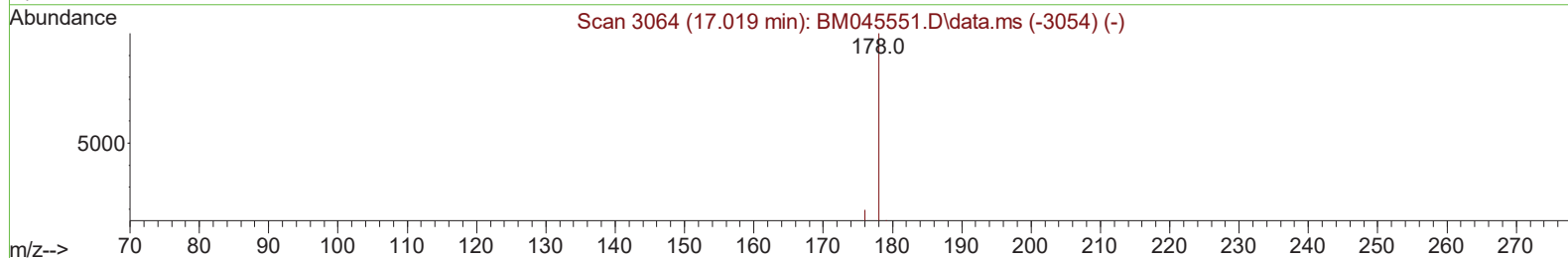
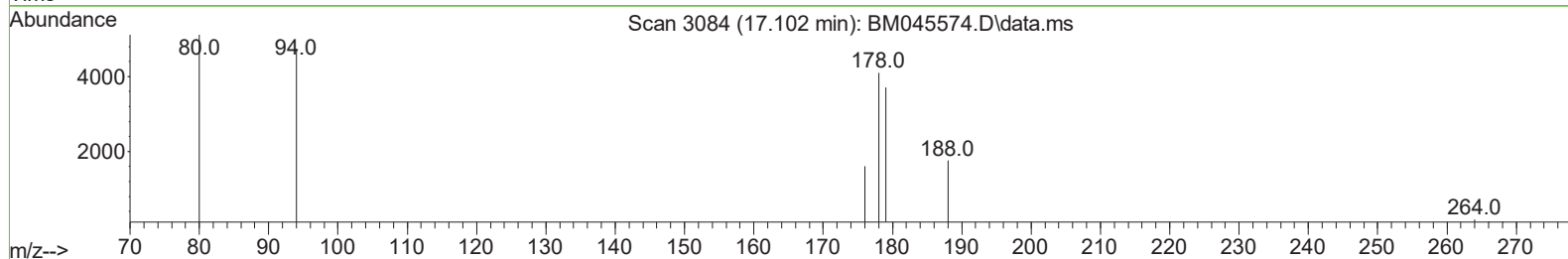
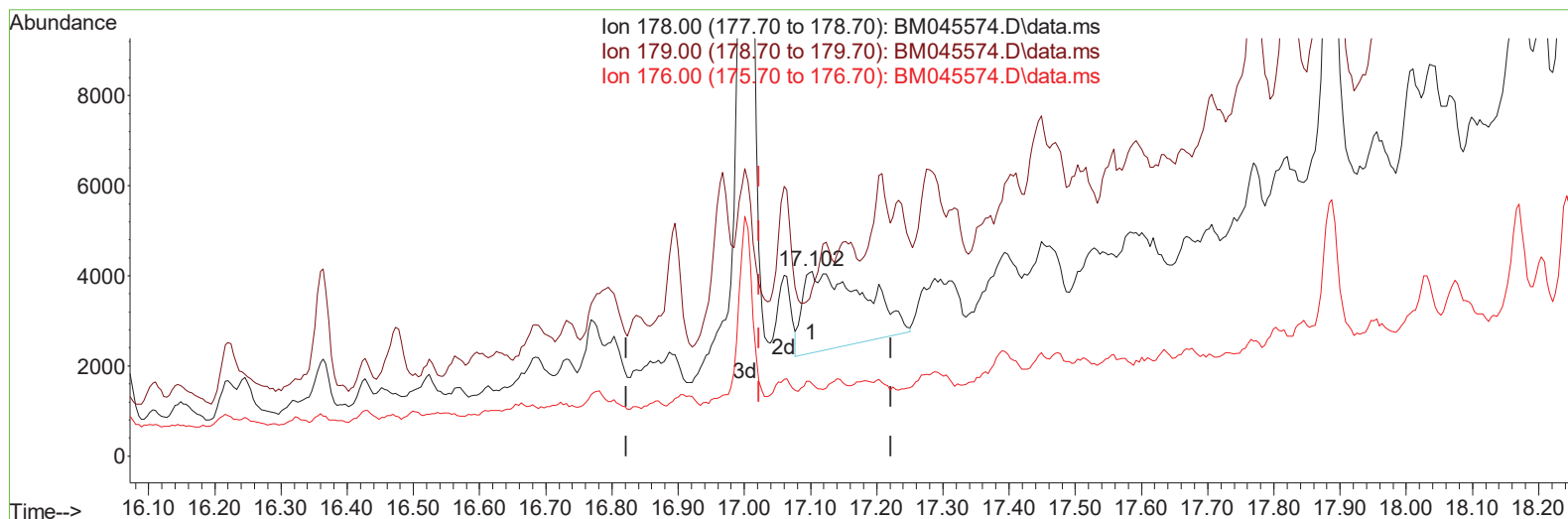
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
 Data File : BM045574.D
 Acq On : 25 Apr 2024 22:10
 Operator : MA/JU
 Sample : P2037-23RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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 QLast Update : Wed Apr 24 05:17:39 2024
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TIC: BM045574.D\data.ms

(15) Phenanthrene

17.102min (+ 0.080) 0.99 ng/u1

response 11216

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	19.30	90.47#
176.00	23.70	39.19#
0.00	0.00	0.00

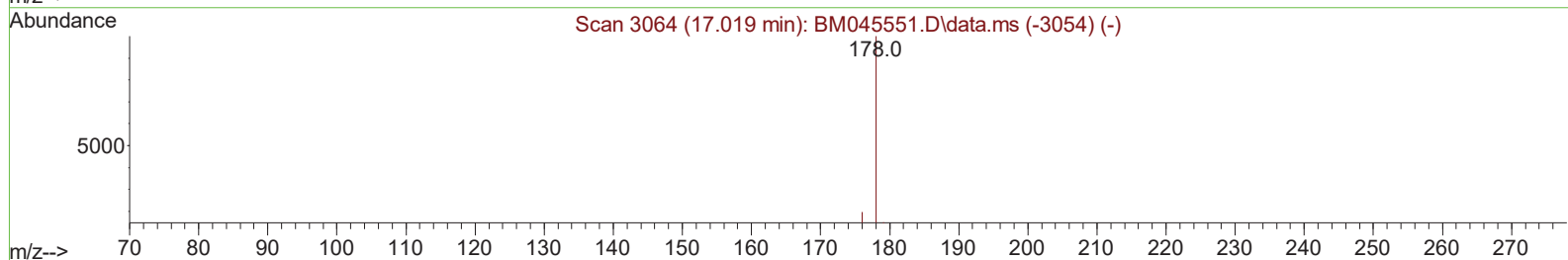
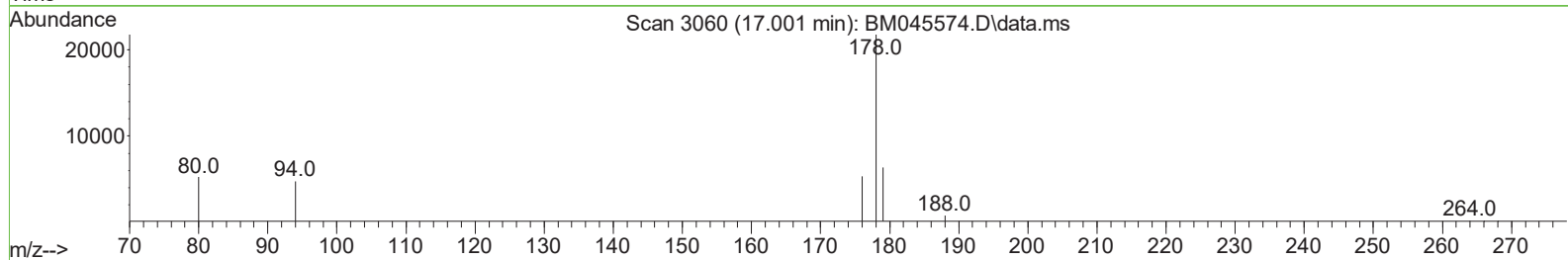
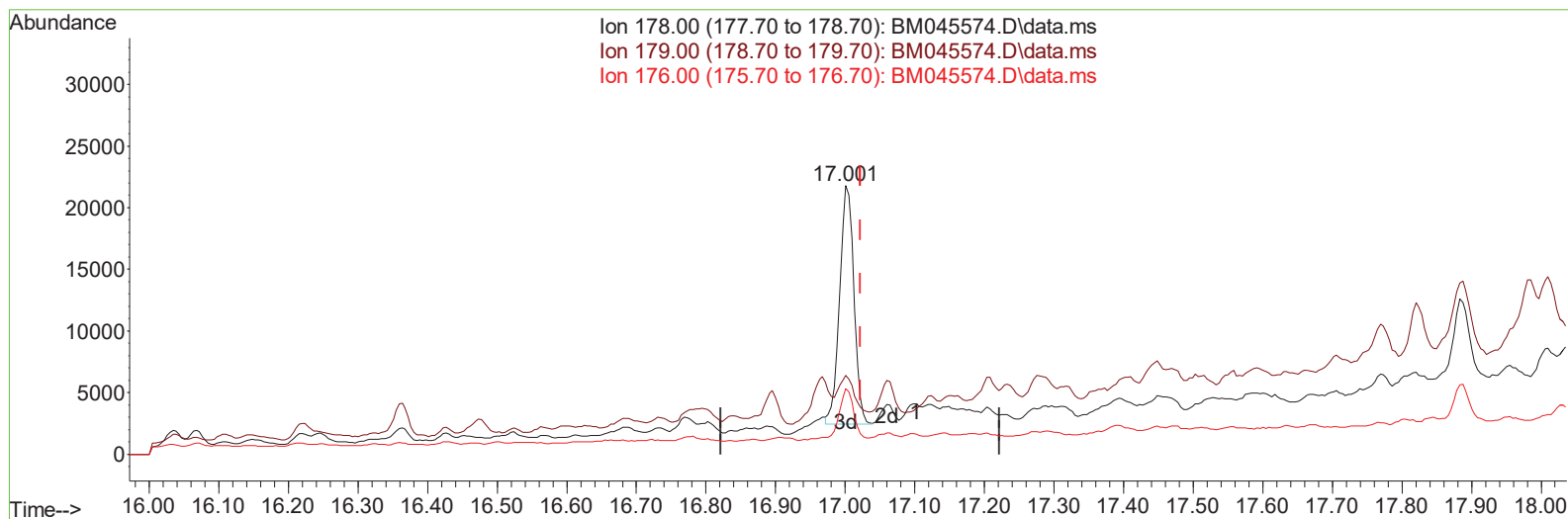
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
 Data File : BM045574.D
 Acq On : 25 Apr 2024 22:10
 Operator : MA/JU
 Sample : P2037-23RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(15) Phenanthrene

17.001min (-0.021) 2.43 ng/ul m

response 27514

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	19.30	29.31#
176.00	23.70	24.46
0.00	0.00	0.00

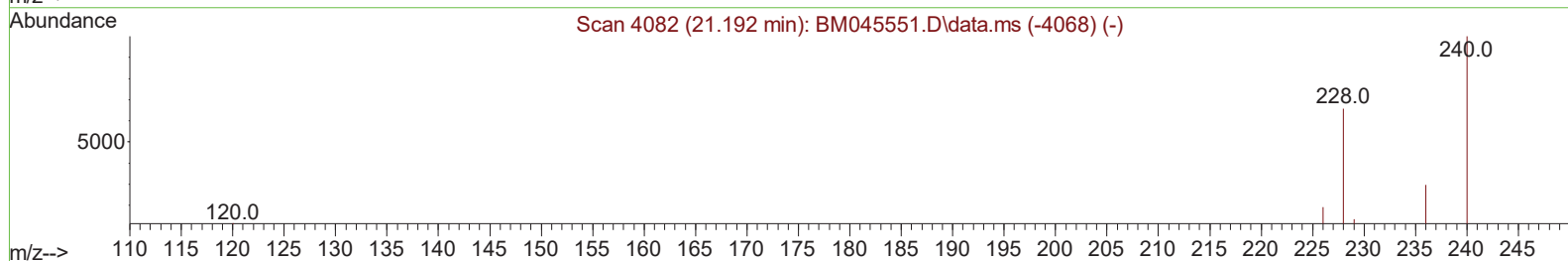
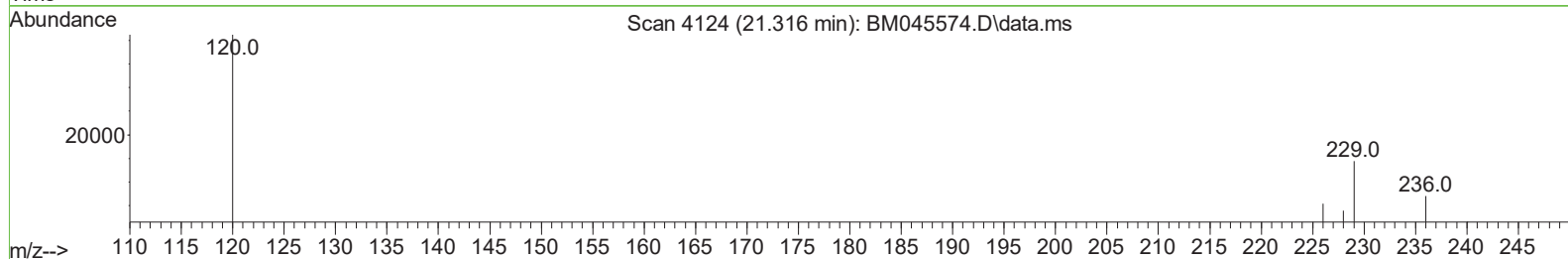
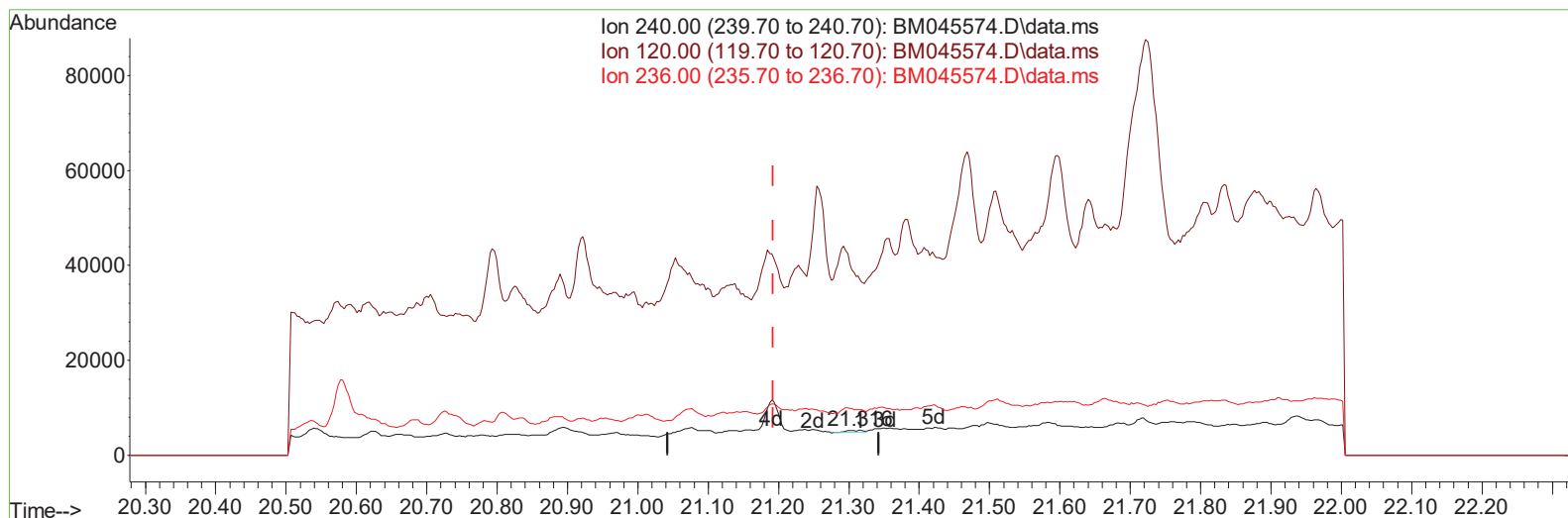
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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TIC: BM045574.D\data.ms

(17) Chrysene-d12

21.316min (+ 0.123) 0.40 ng/u1

response 816

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	23.40	705.31#
236.00	35.90	183.70#
0.00	0.00	0.00

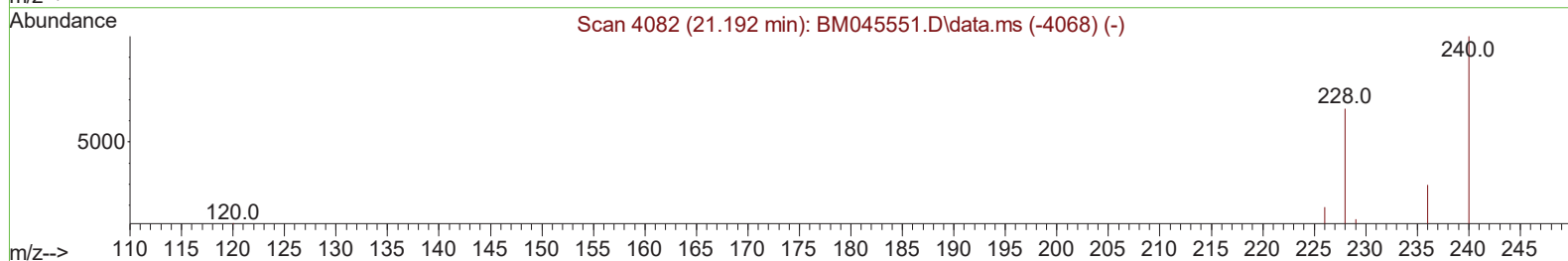
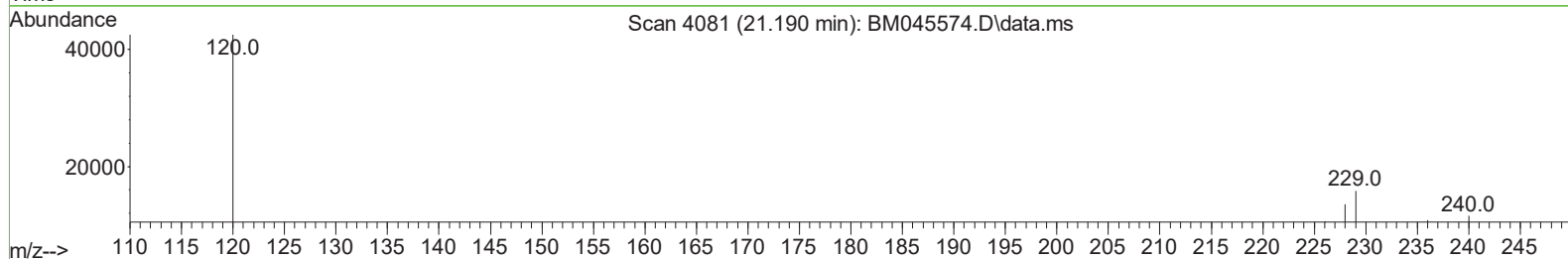
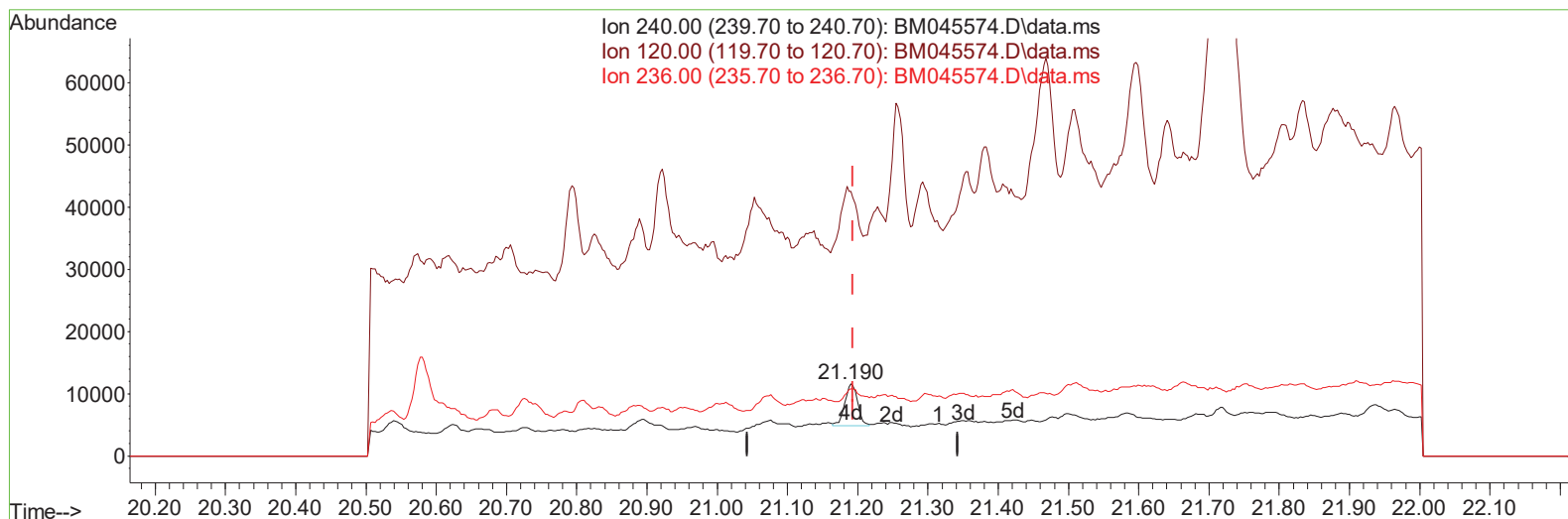
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
 Data File : BM045574.D
 Acq On : 25 Apr 2024 22:10
 Operator : MA/JU
 Sample : P2037-23RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
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 QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
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TIC: BM045574.D\data.ms

(17) Chrysene-d12

21.190min (-0.003) 0.40 ng/ul m

response 8608

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	23.40	366.99#
236.00	35.90	93.43#
0.00	0.00	0.00

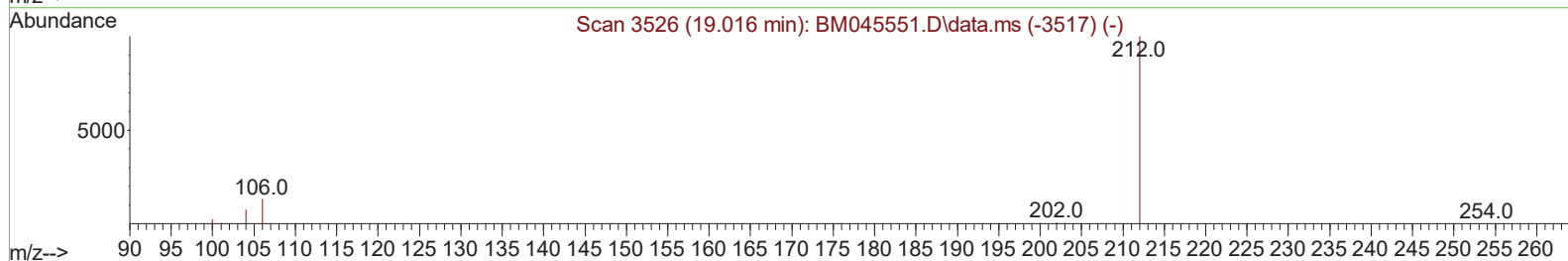
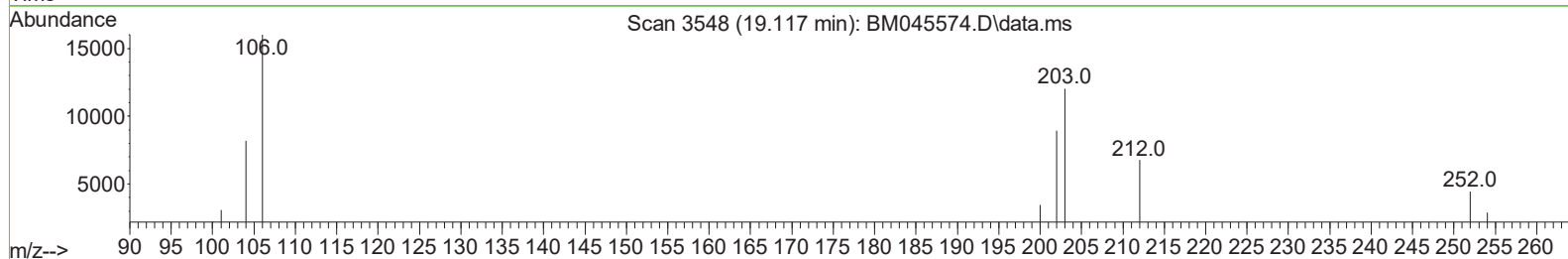
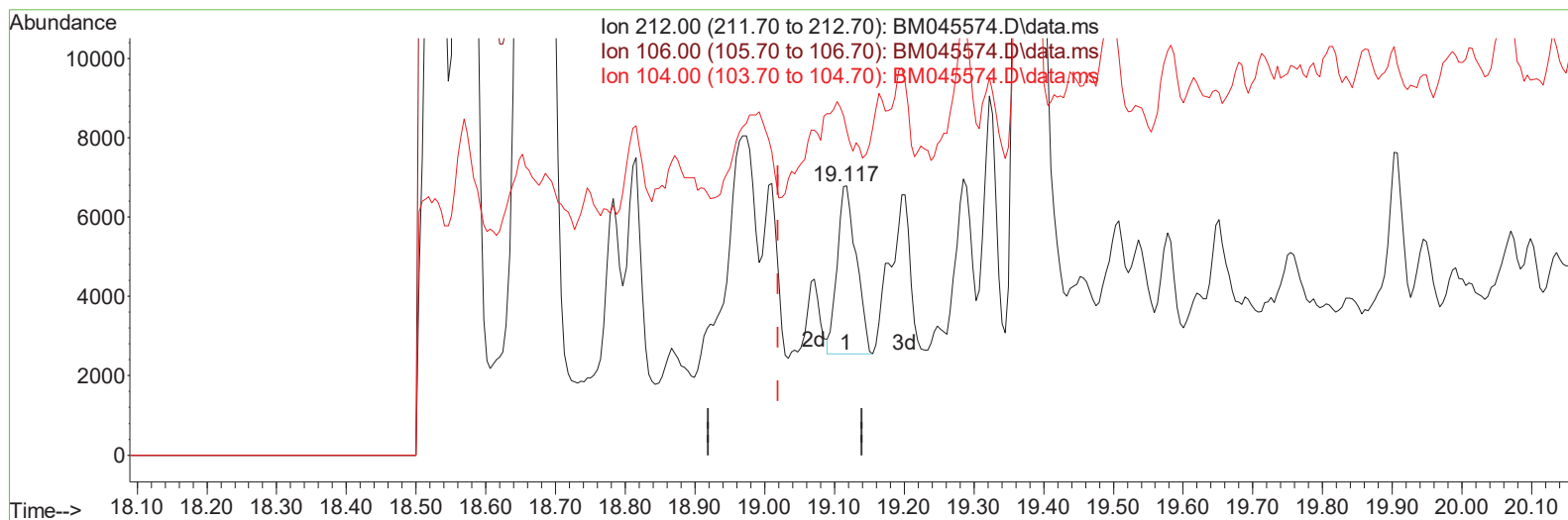
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 25 23:14:50 2024
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TIC: BM045574.D\data.ms

(18) Fluoranthene-d10 (SURR)

19.117min (+ 0.098) 0.30 ng/u1

response 8059

Ion	Exp%	Act%
212.00	100.00	100.00
106.00	12.70	0.00#
104.00	8.70	0.00#
0.00	0.00	0.00

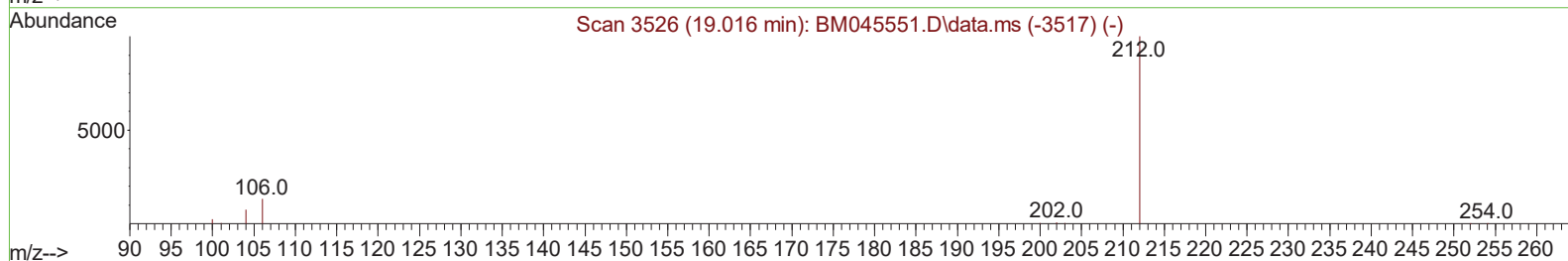
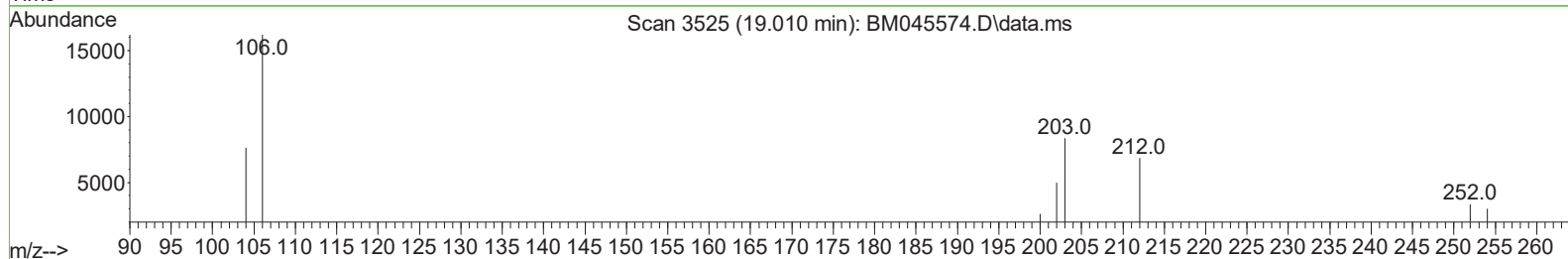
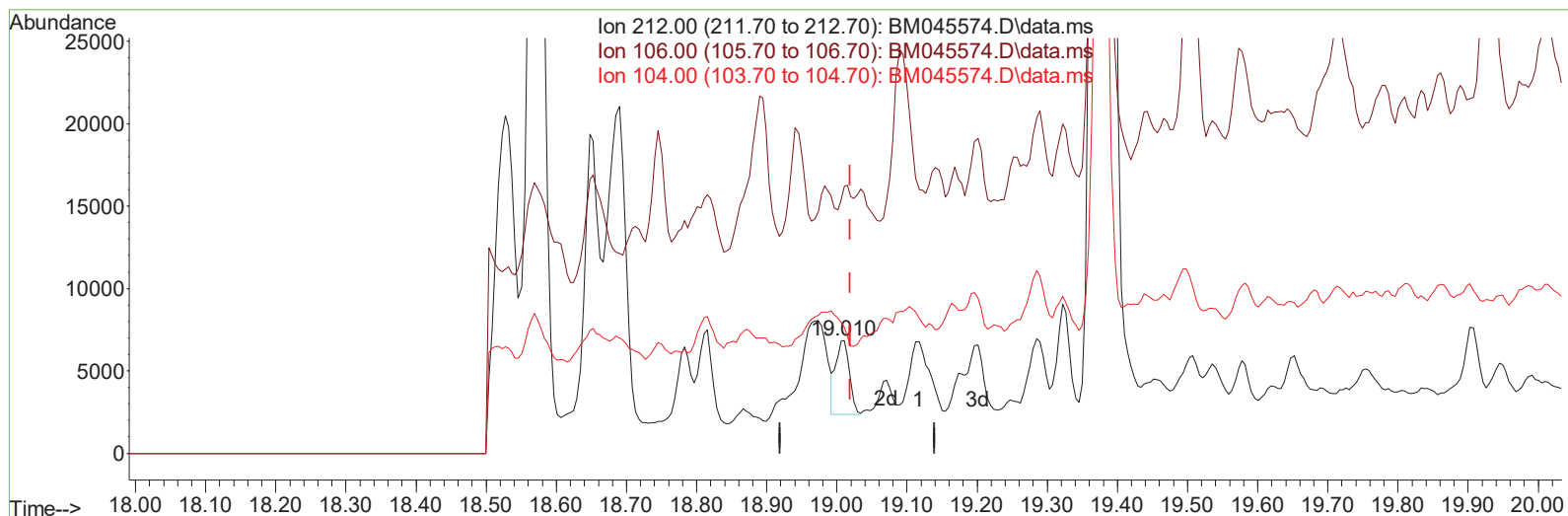
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(18) Fluoranthene-d10 (SURR)

19.010min (-0.009) 0.22 ng/ul m

response 6075

Ion	Exp%	Act%
212.00	100.00	100.00
106.00	12.70	0.00#
104.00	8.70	0.00#
0.00	0.00	0.00

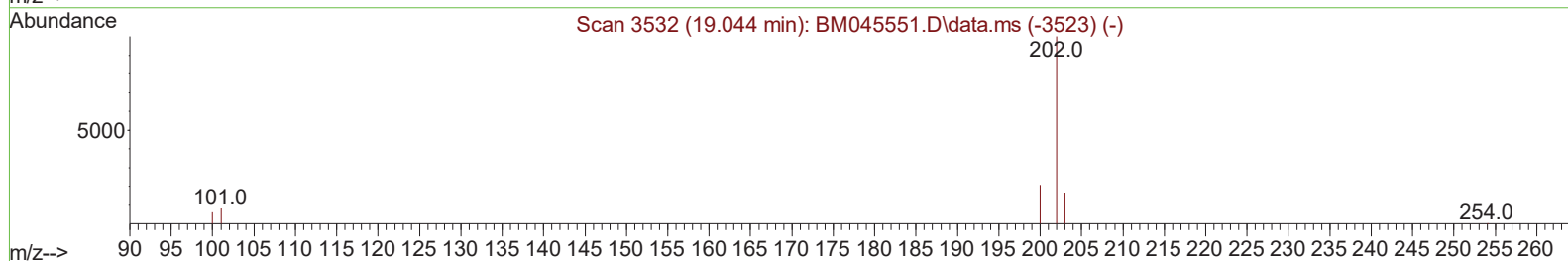
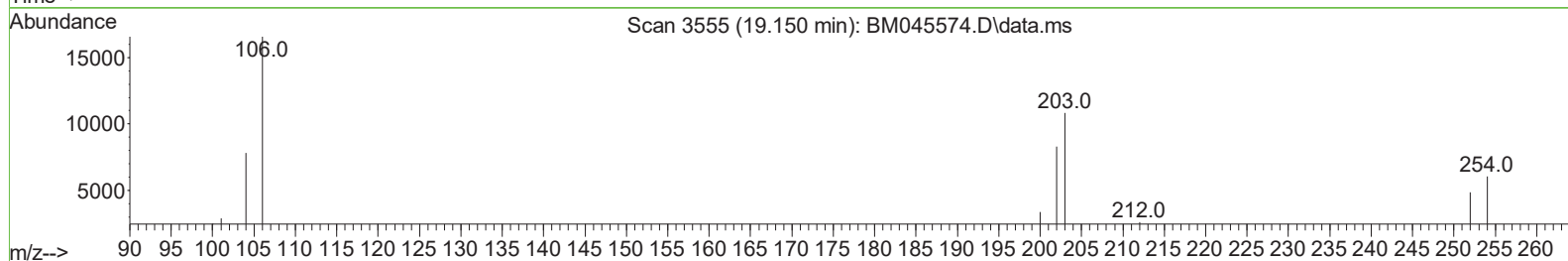
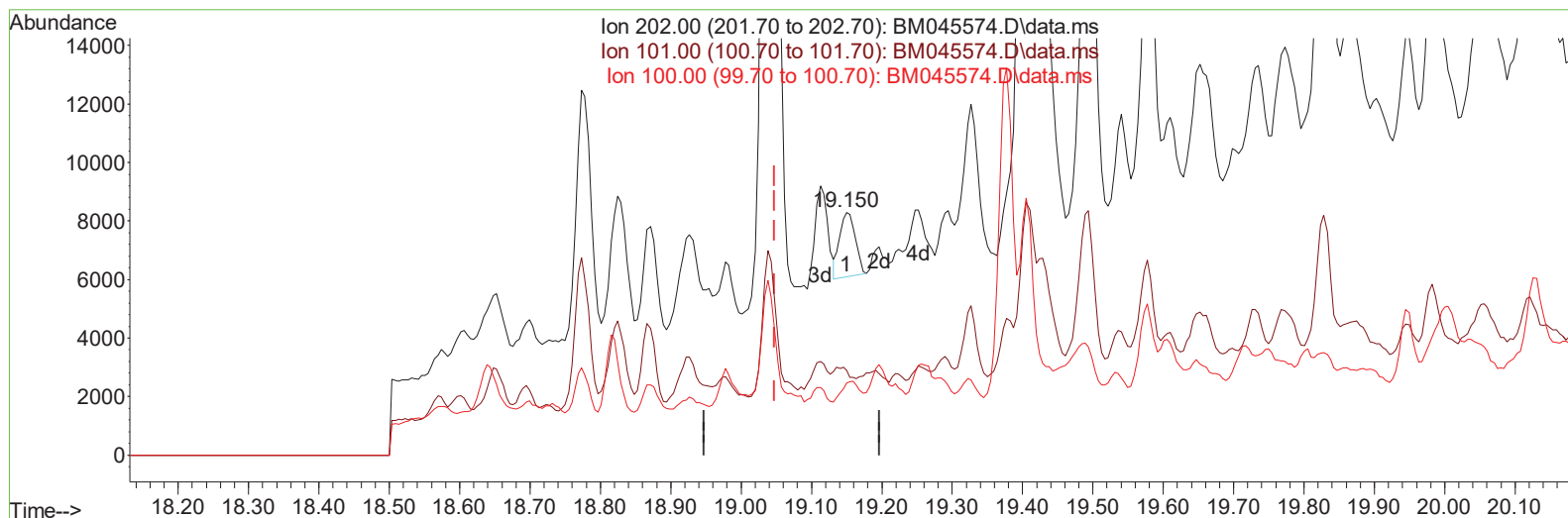
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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TIC: BM045574.D\data.ms

(19) Fluoranthene (C)

19.150min (+ 0.102) 0.09 ng/u1

response 3454

Ion	Exp%	Act%
202.00	100.00	100.00
101.00	14.00	34.95#
100.00	11.40	29.60#
0.00	0.00	0.00

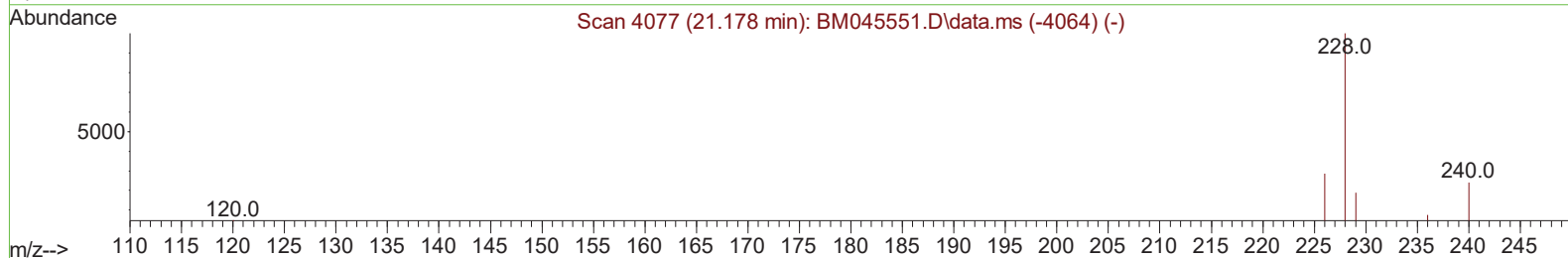
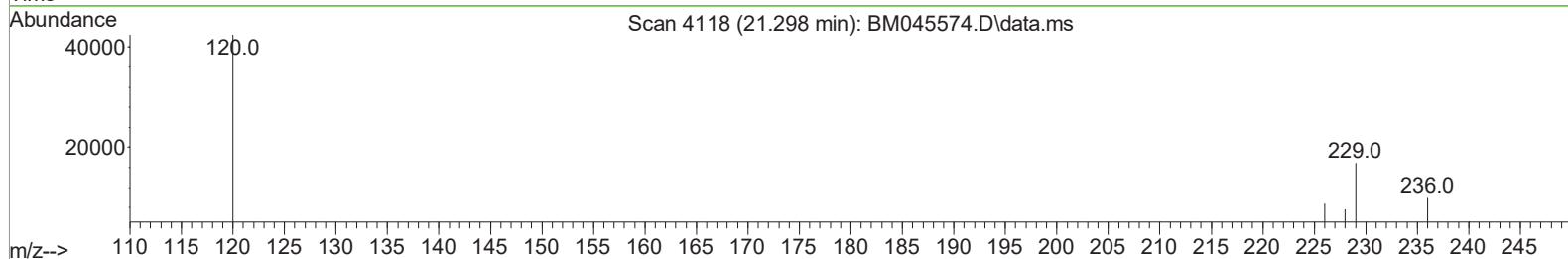
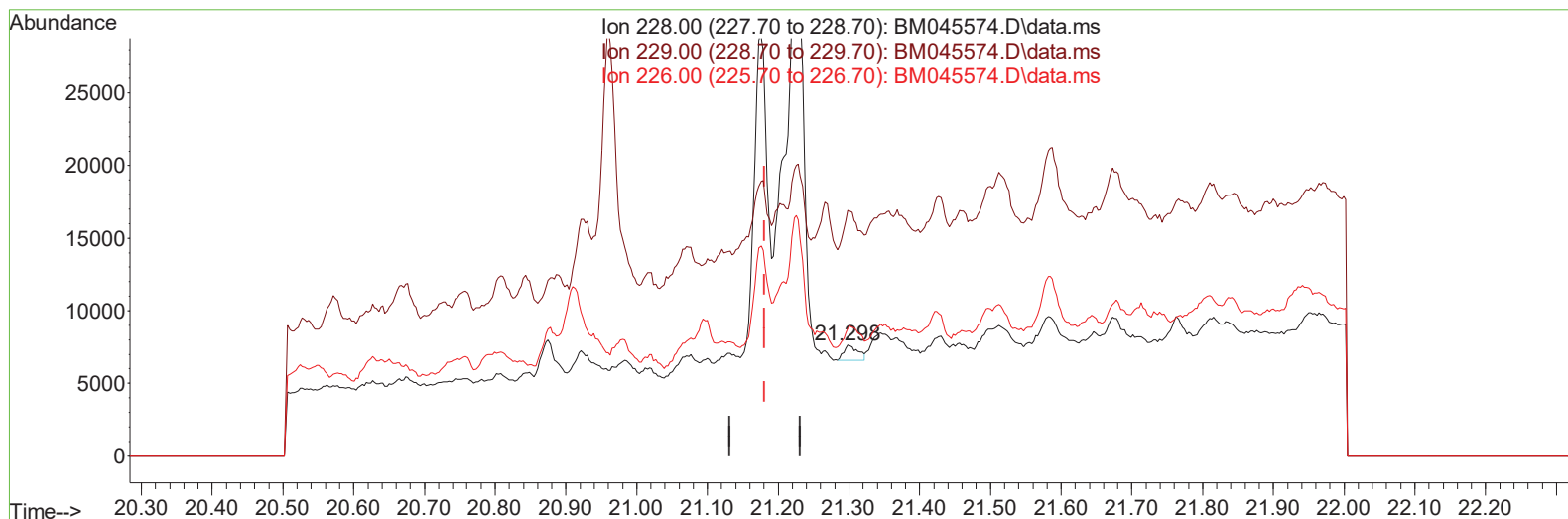
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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TIC: BM045574.D\data.ms

(21) Benzo(a)anthracene

21.298min (+ 0.117) 0.05 ng/u1

response 1463

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	24.30	221.19#
226.00	32.90	114.65#
0.00	0.00	0.00

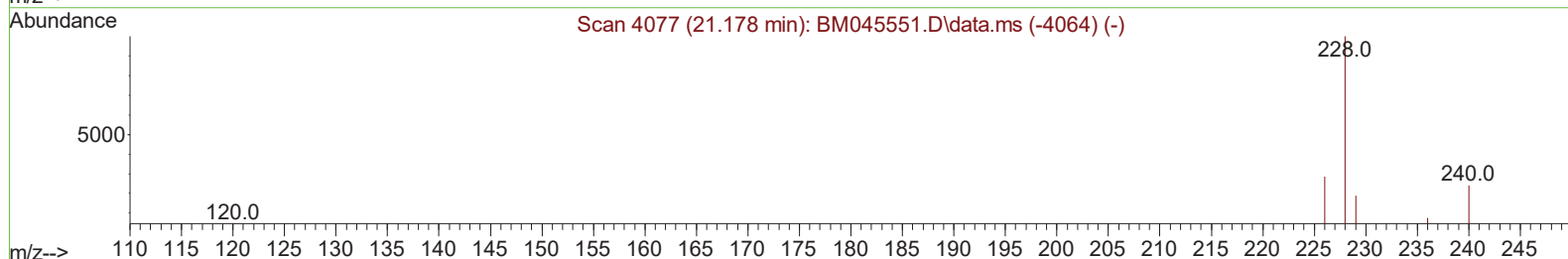
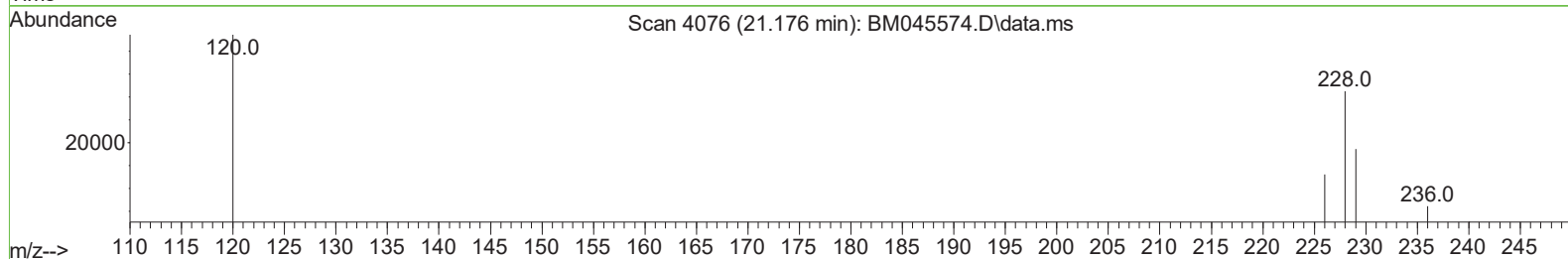
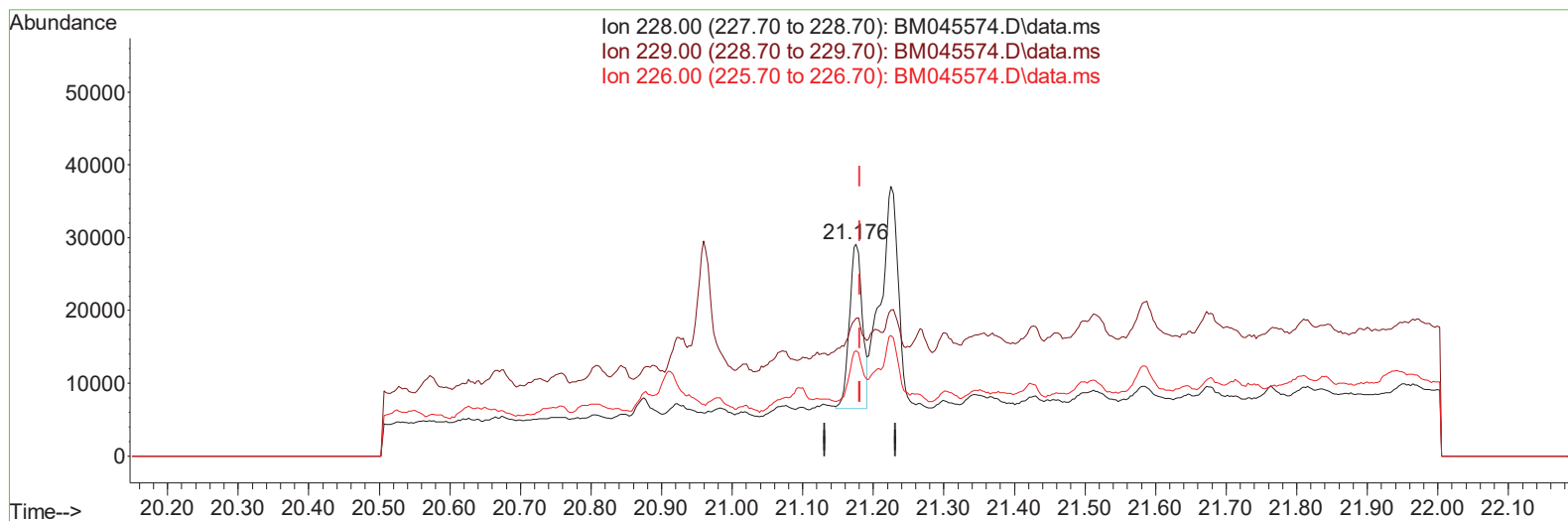
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(21) Benzo(a)anthracene

21.176min (-0.006) 1.04 ng/ul m

response 28750

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	24.30	65.09#
226.00	32.90	49.75#
0.00	0.00	0.00

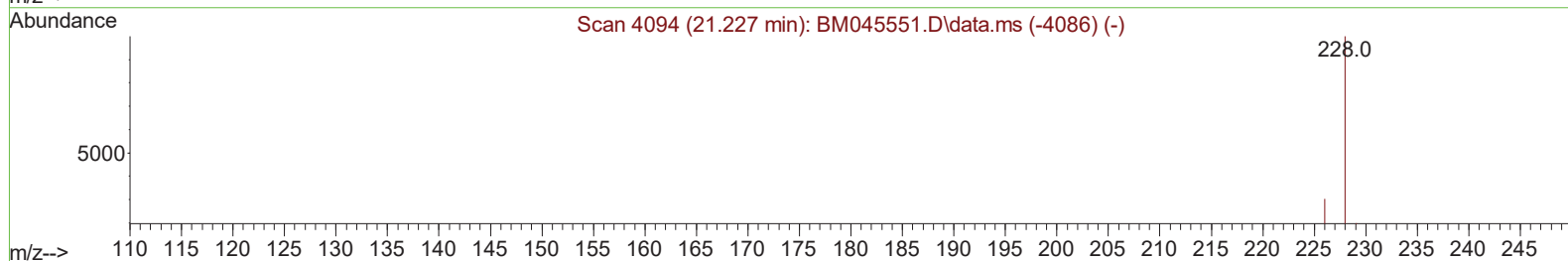
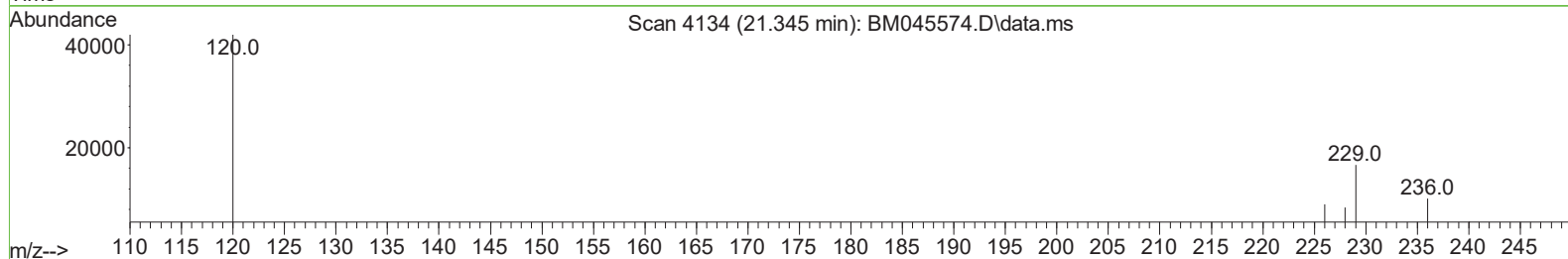
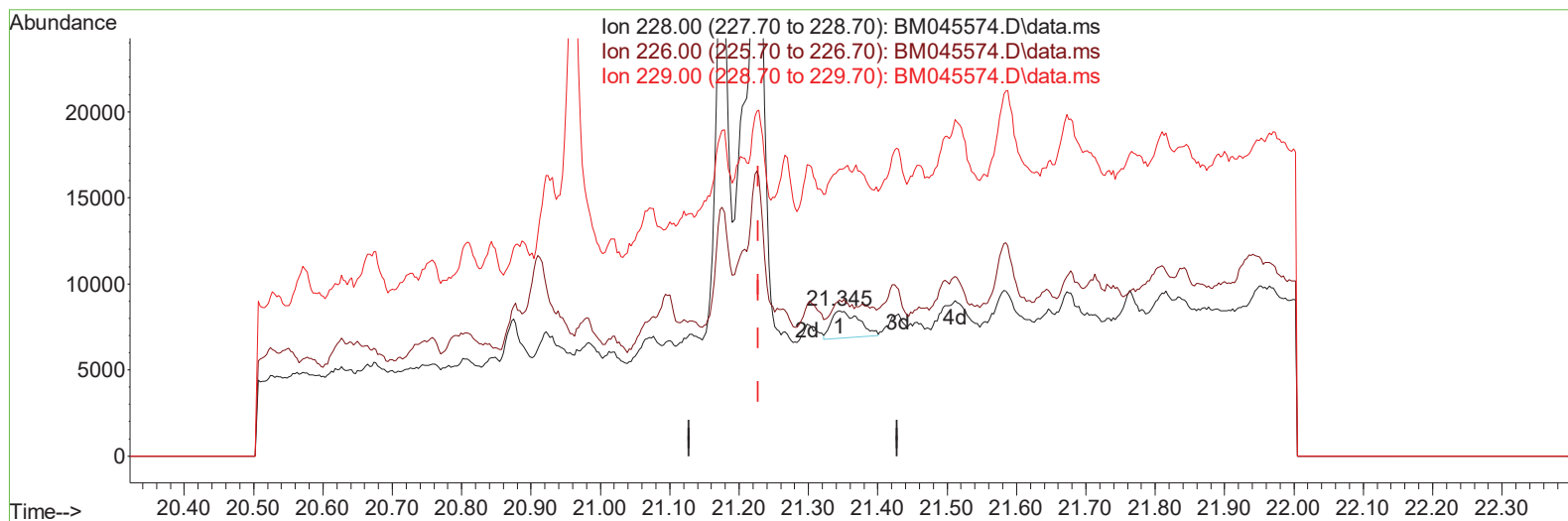
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual IntegrationsAPPROVED

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TIC: BM045574.D\data.ms

(22) Chrysene

21.345min (+ 0.117) 0.10 ng/u1

response 4391

Ion	Exp%	Act%
228.00	100.00	100.00
226.00	32.90	107.44#
229.00	22.30	197.04#
0.00	0.00	0.00

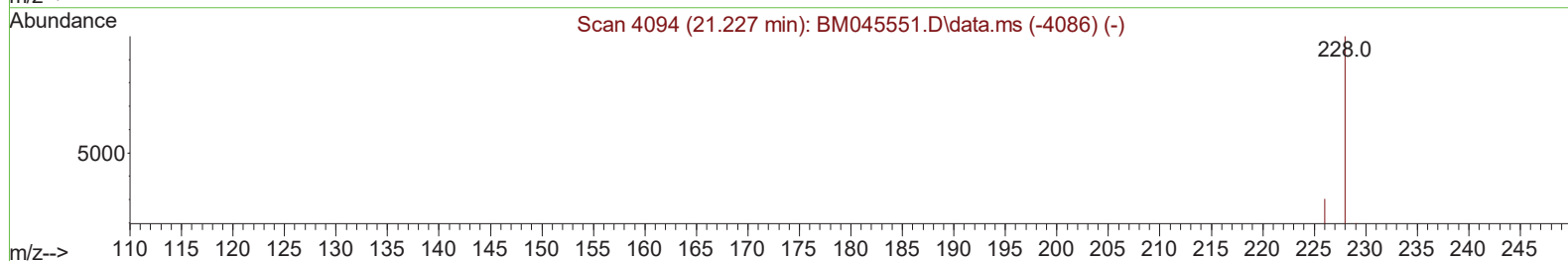
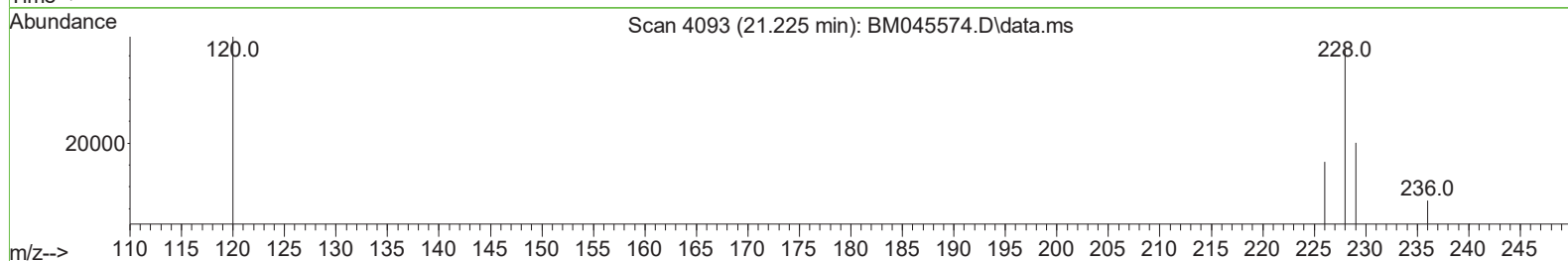
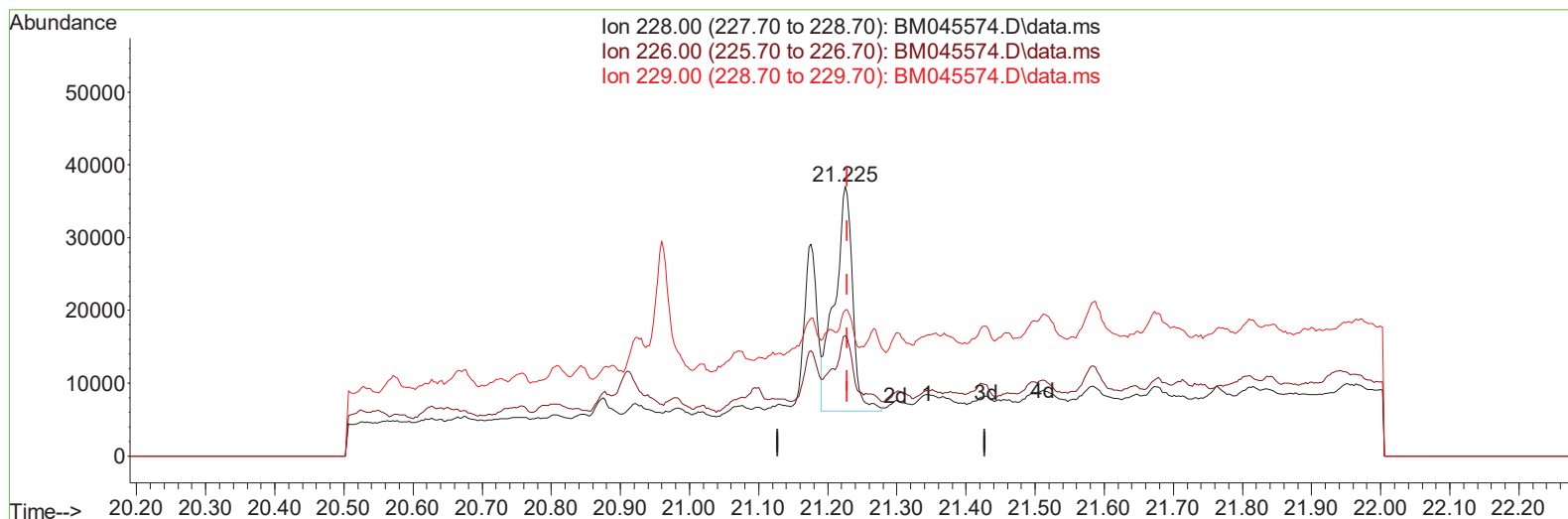
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
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Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

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TIC: BM045574.D\data.ms

(22) Chrysene

21.225min (-0.003) 1.33 ng/ul m

response 56413

Ion	Exp%	Act%
228.00	100.00	100.00
226.00	32.90	44.75#
229.00	22.30	54.13#
0.00	0.00	0.00

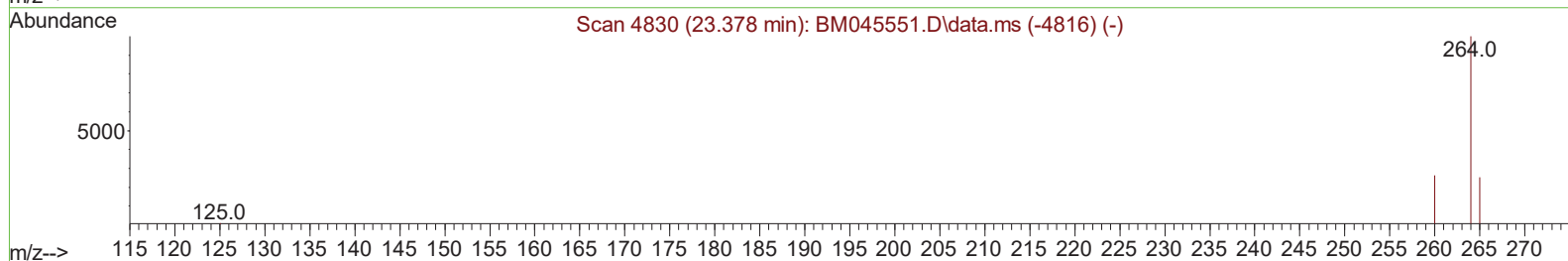
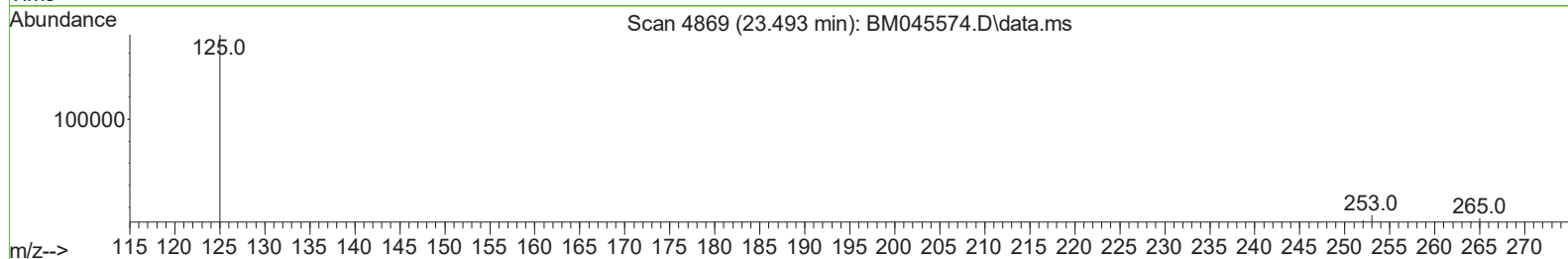
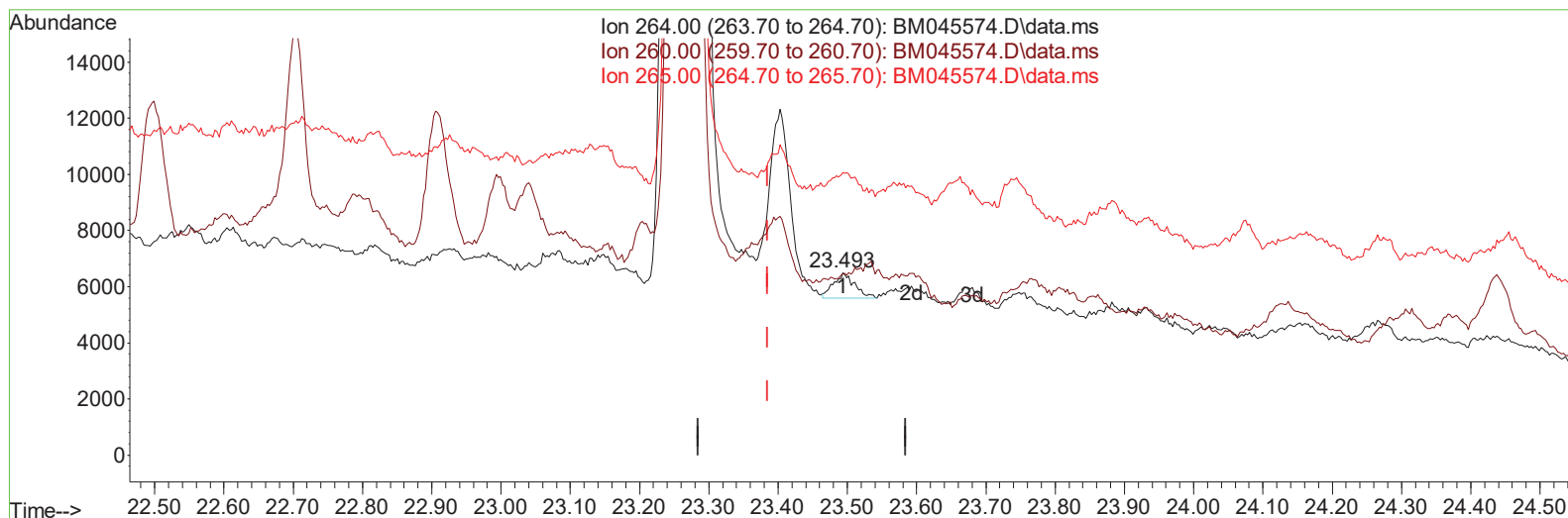
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(23) Perylene-d12 (I)

23.493min (+ 0.108) 0.40 ng/ul

response 1868

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	30.50	99.02#
265.00	86.70	154.58#
0.00	0.00	0.00

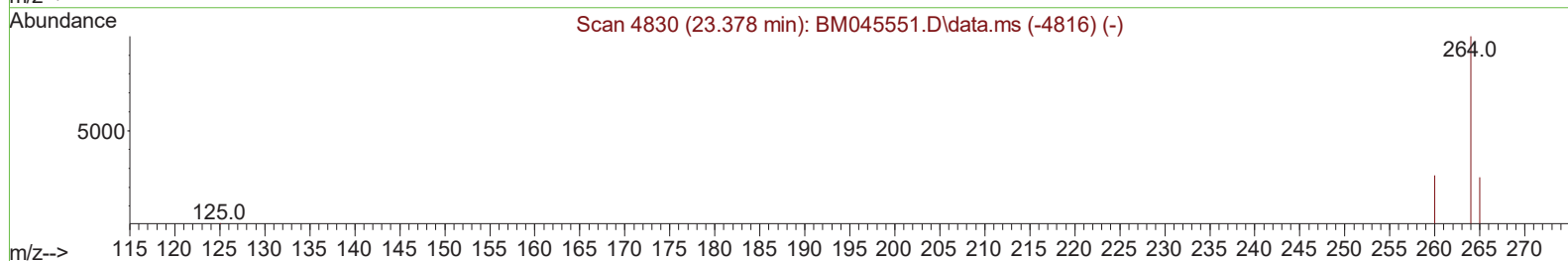
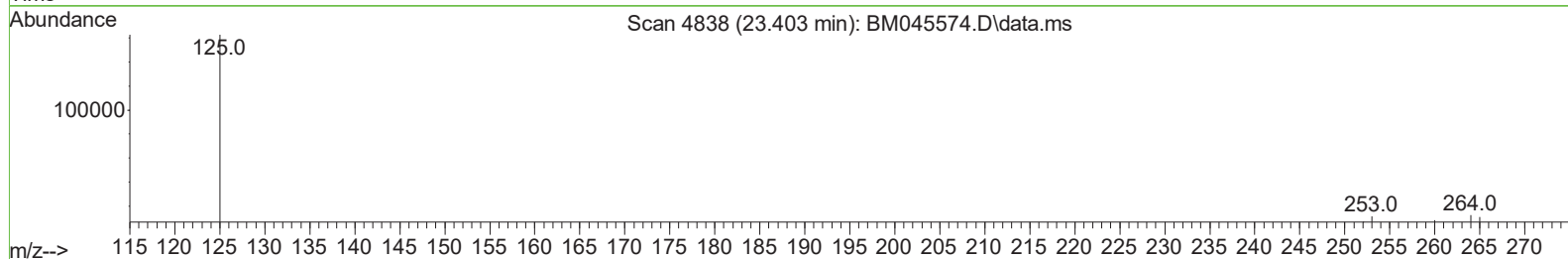
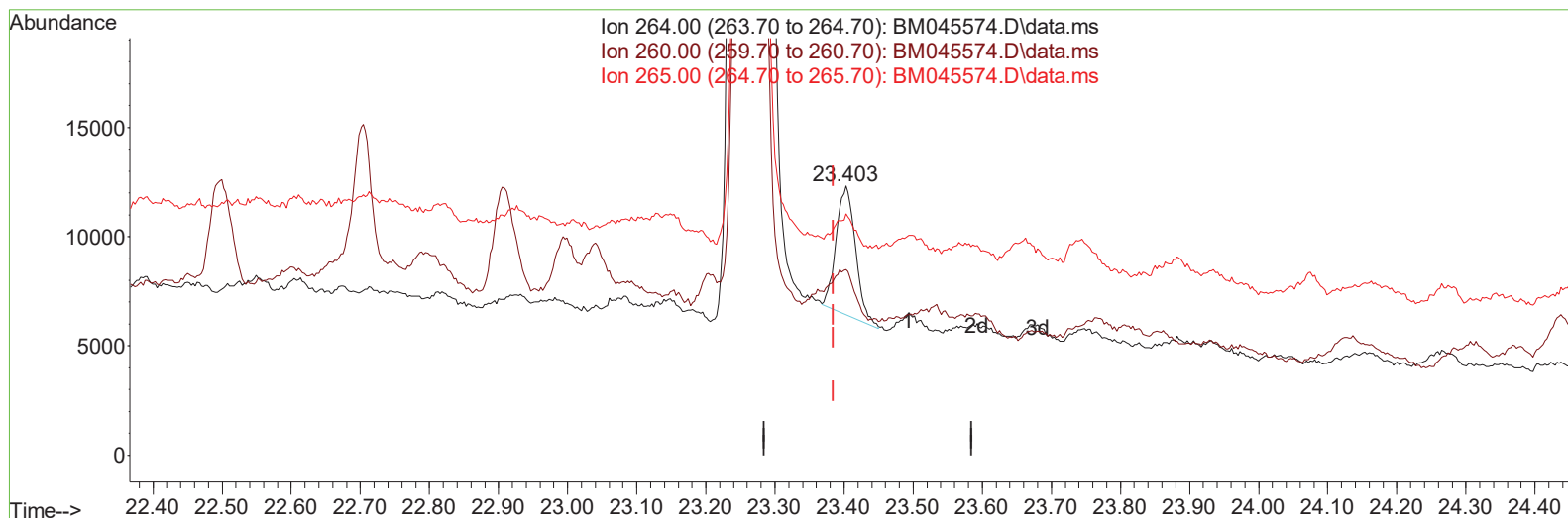
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(23) Perylene-d12 (I)

23.403min (+ 0.018) 0.40 ng/ul m

response 11389

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	30.50	68.99#
265.00	86.70	89.75
0.00	0.00	0.00

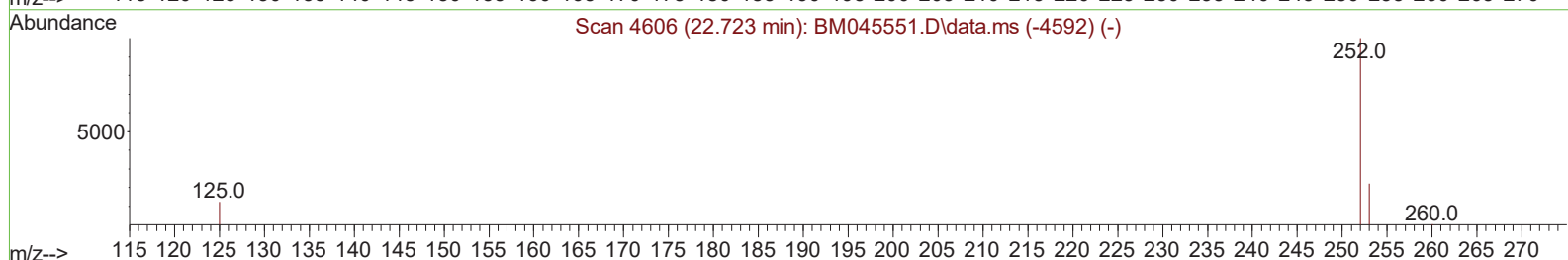
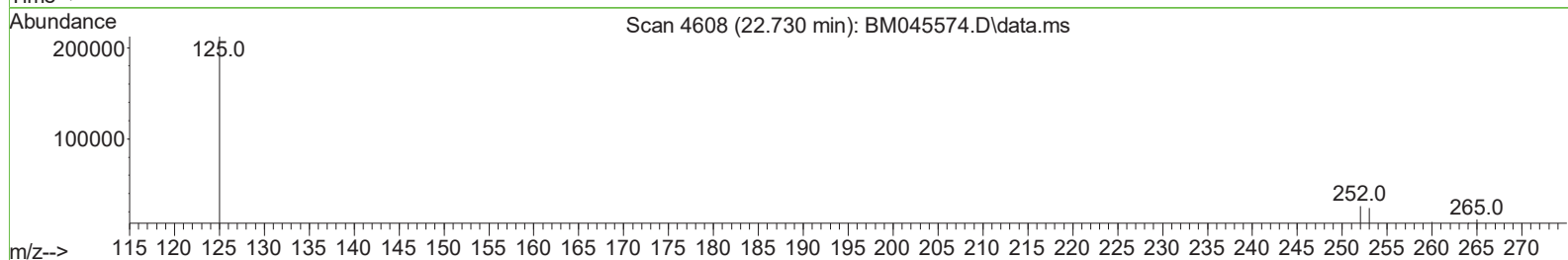
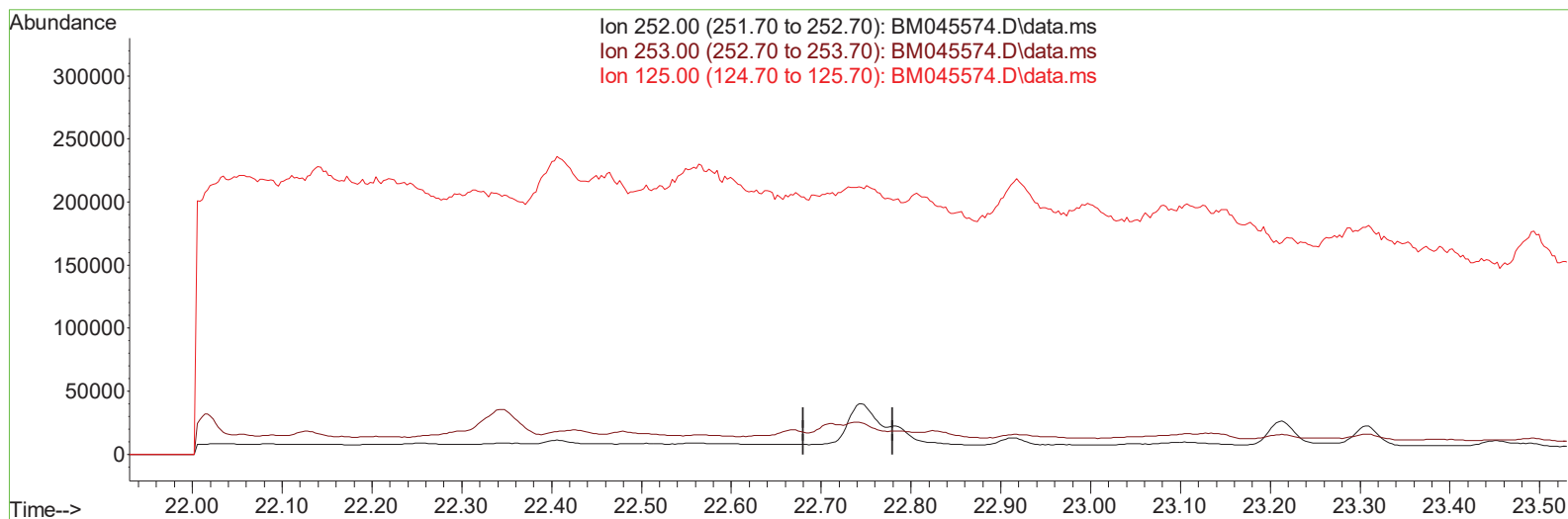
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
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TIC: BM045574.D\data.ms

(24) Benzo(b)fluoranthene

22.730min (-22.730) 0.00 ng/u1

response 0

Ion	Exp%	Act%
252.00	100.00	0.00
253.00	31.70	0.00
125.00	18.40	0.00
0.00	0.00	0.00

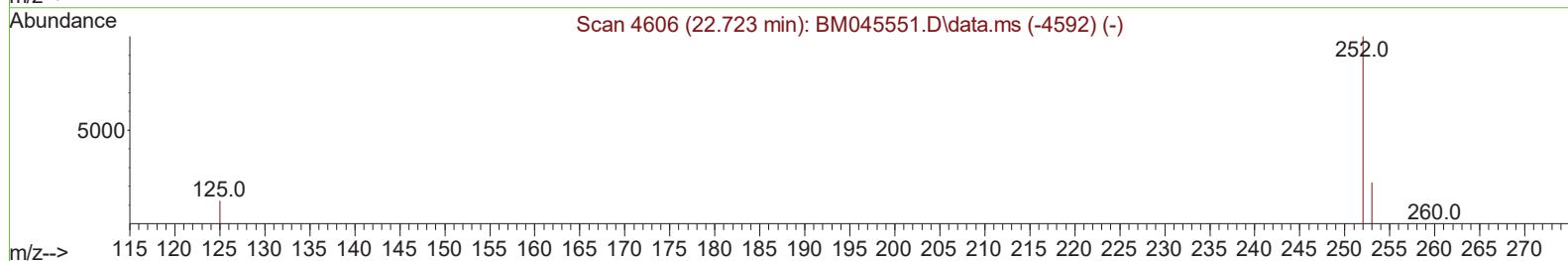
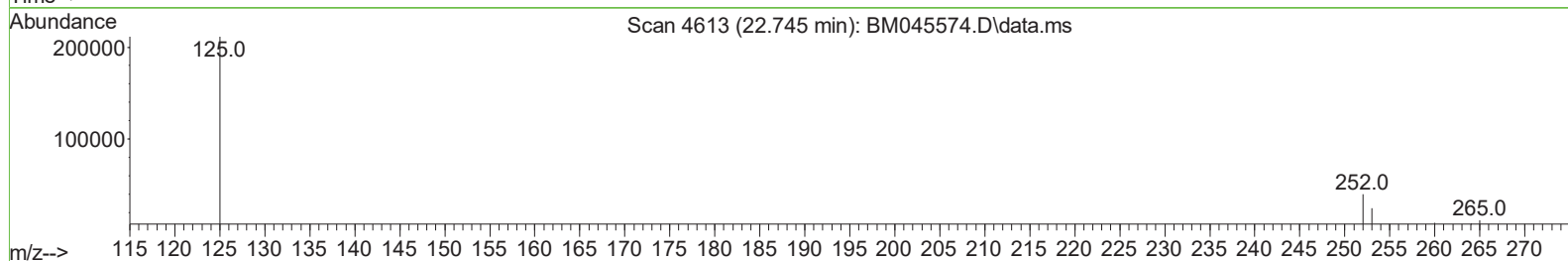
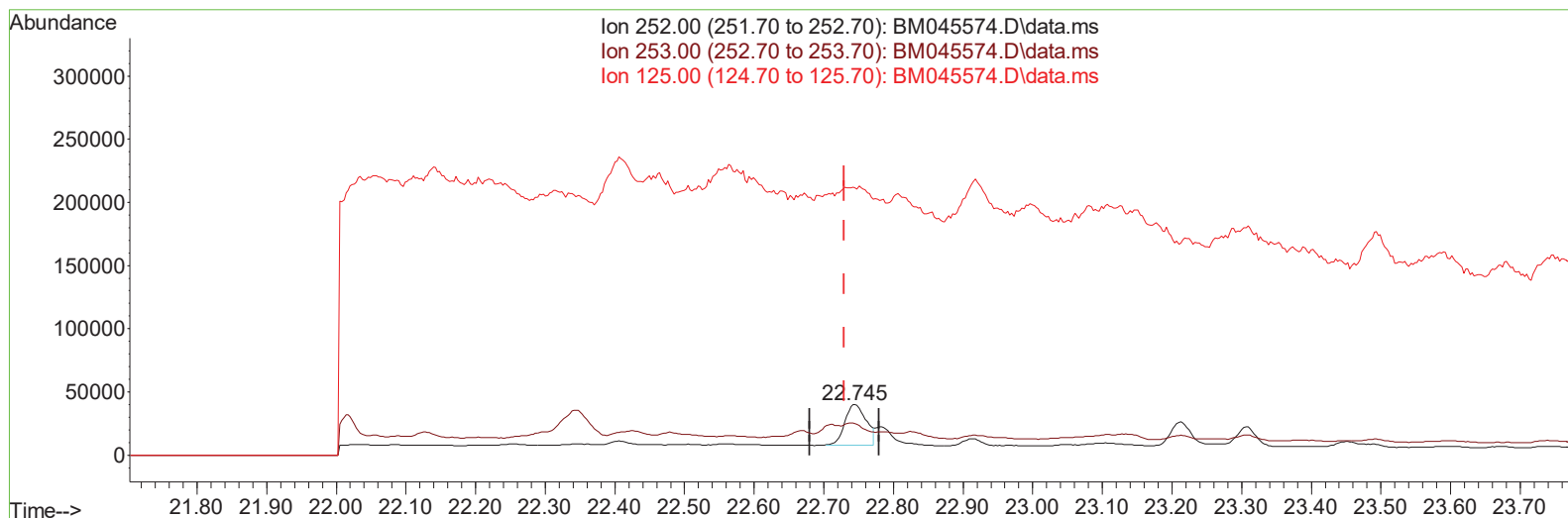
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(24) Benzo(b)fluoranthene

22.745min (+ 0.015) 1.82 ng/ul m

response 69635

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	31.70	62.91
125.00	18.40	530.07#
0.00	0.00	0.00

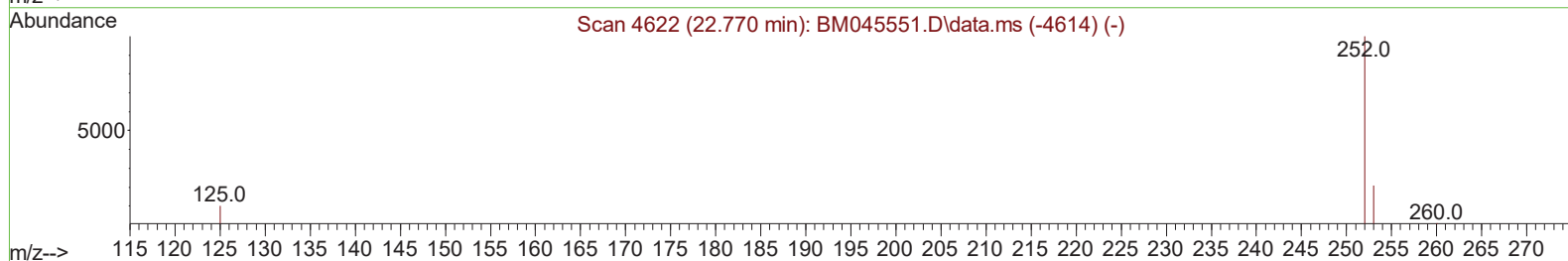
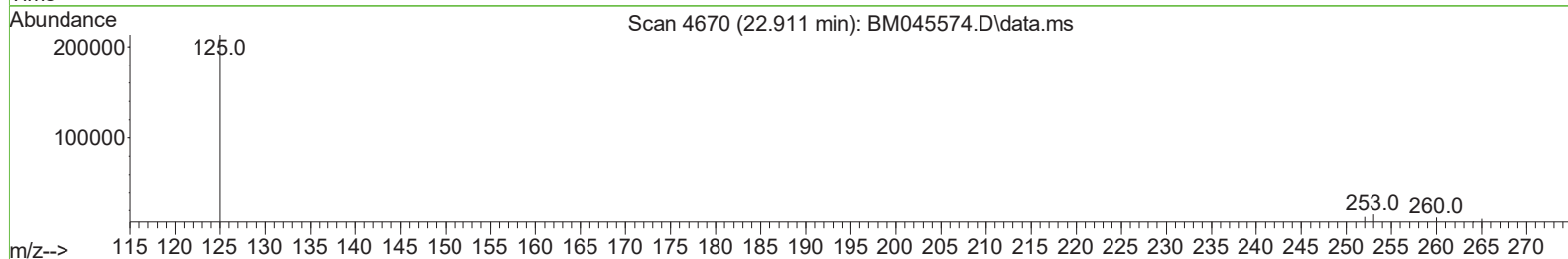
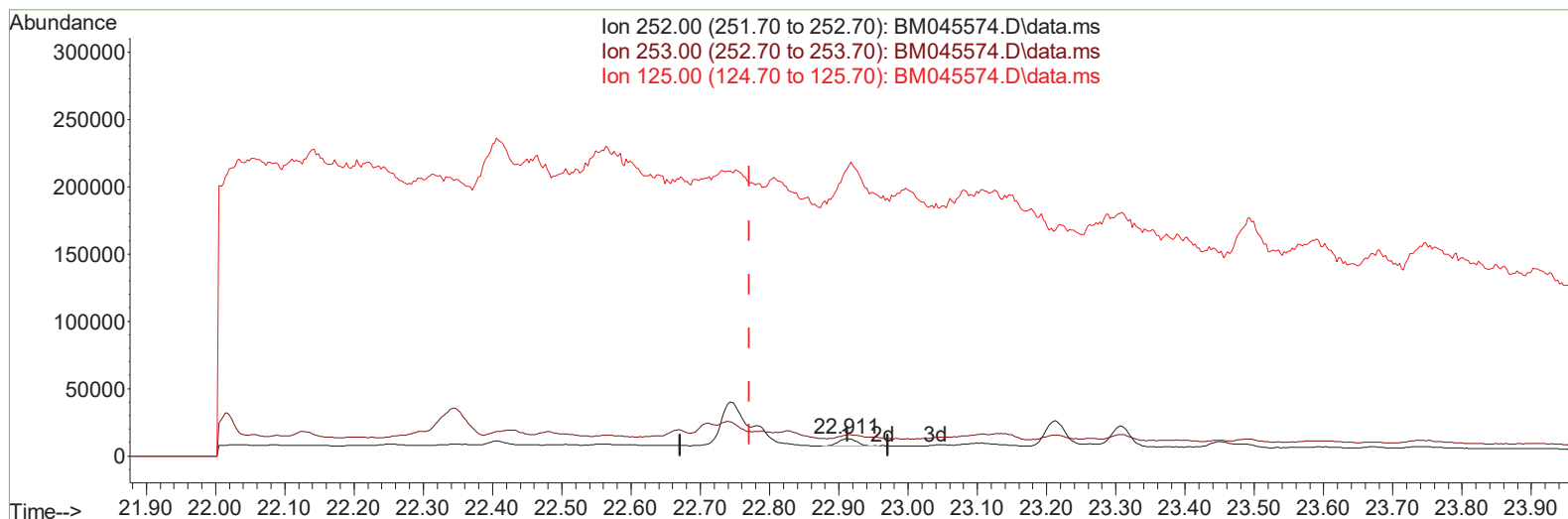
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(25) Benzo(k)fluoranthene

22.911min (+ 0.141) 0.22 ng/u1

response 10460

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	31.70	119.20#
125.00	18.50	1635.95#
0.00	0.00	0.00

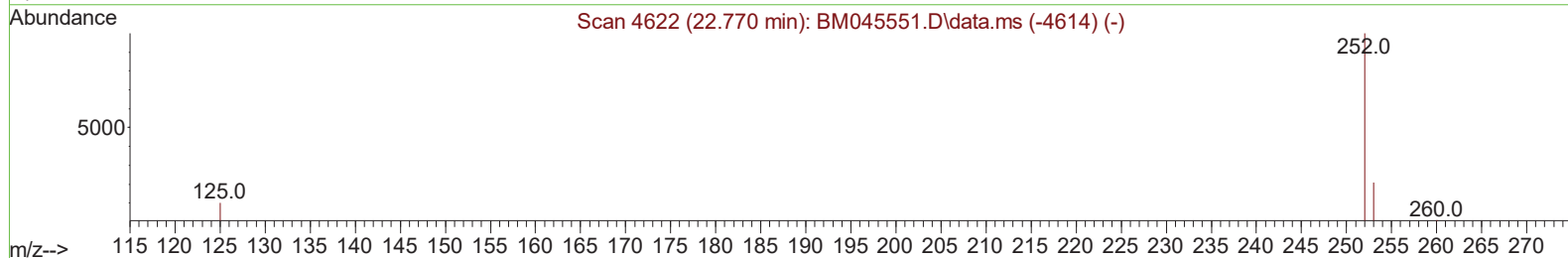
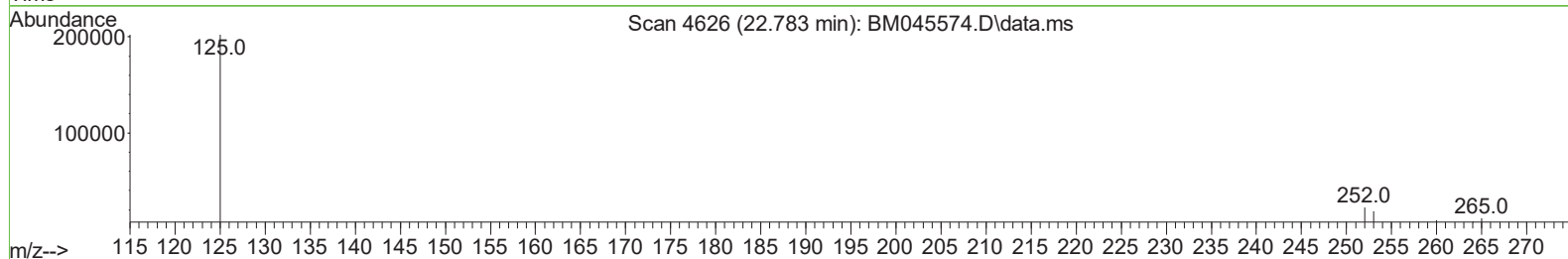
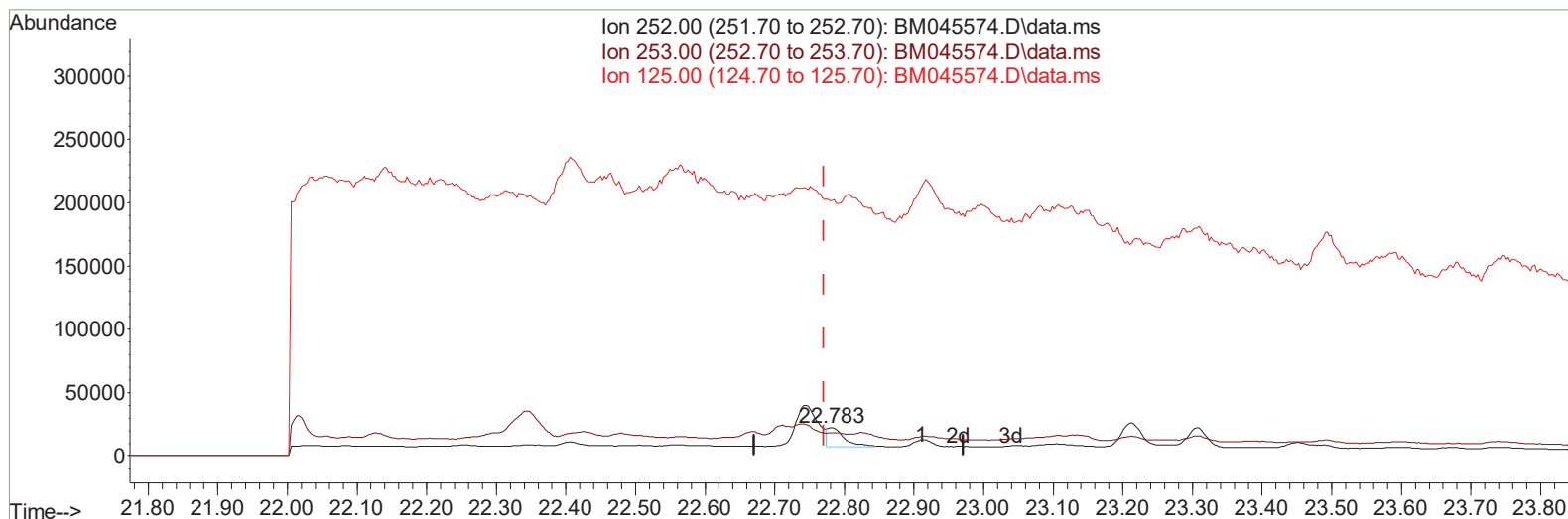
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(25) Benzo(k)fluoranthene

22.783min (+ 0.012) 0.52 ng/ul m

response 25086

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	31.70	81.20#
125.00	18.50	896.49#
0.00	0.00	0.00

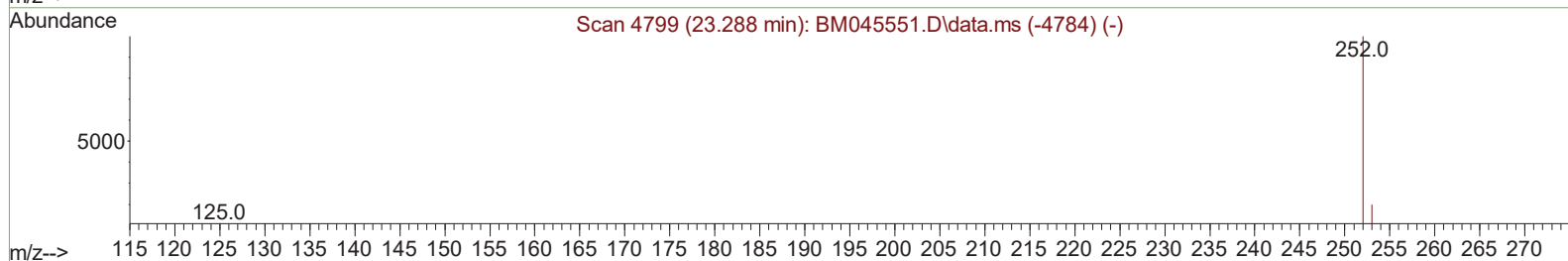
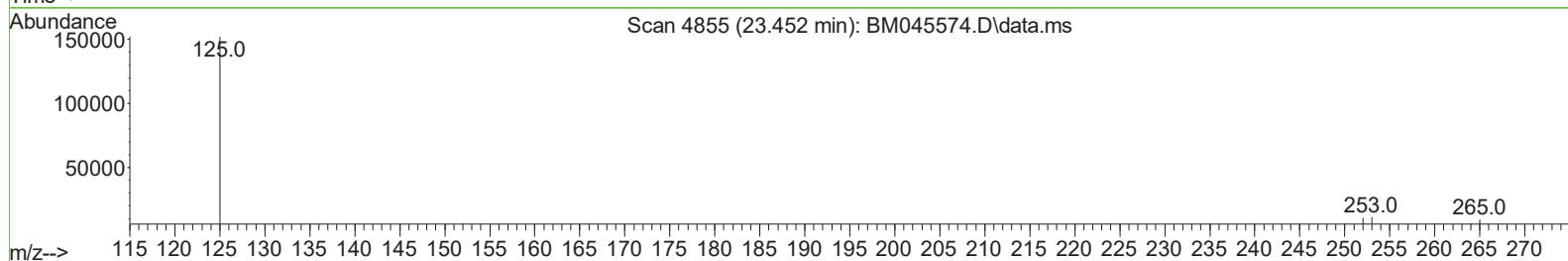
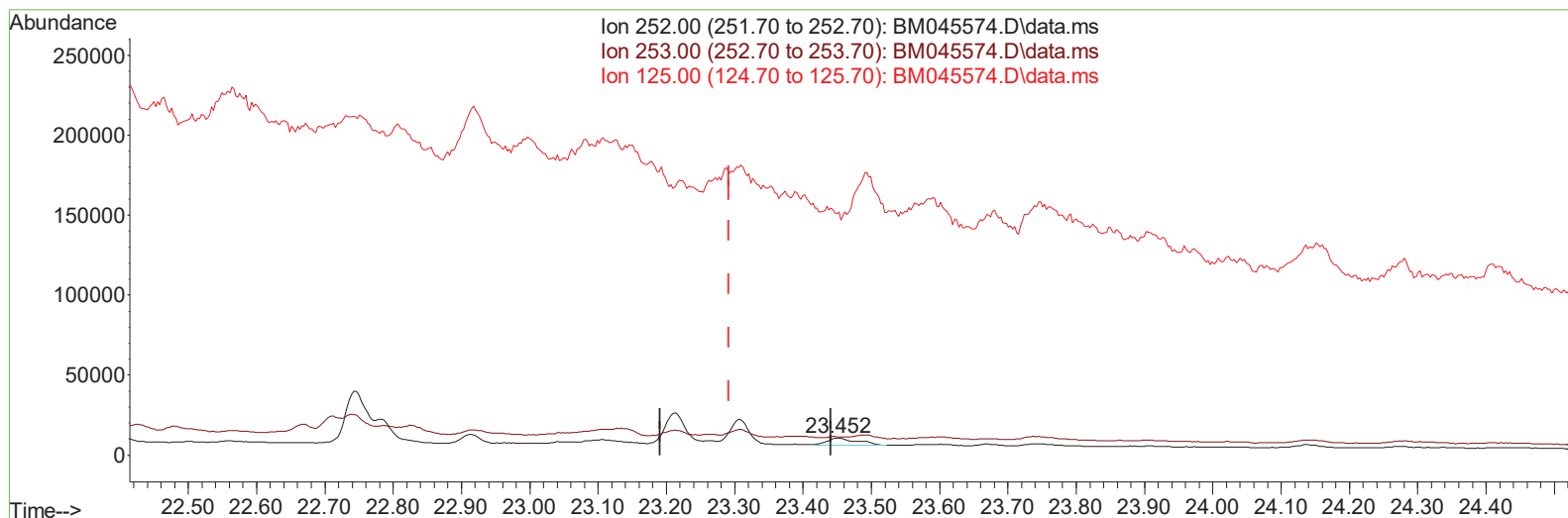
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
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TIC: BM045574.D\data.ms

(26) Benzo(a)pyrene (C)

23.452min (+ 0.161) 0.37 ng/u1

response 14874

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	39.50	107.17#
125.00	24.40	1419.37#
0.00	0.00	0.00

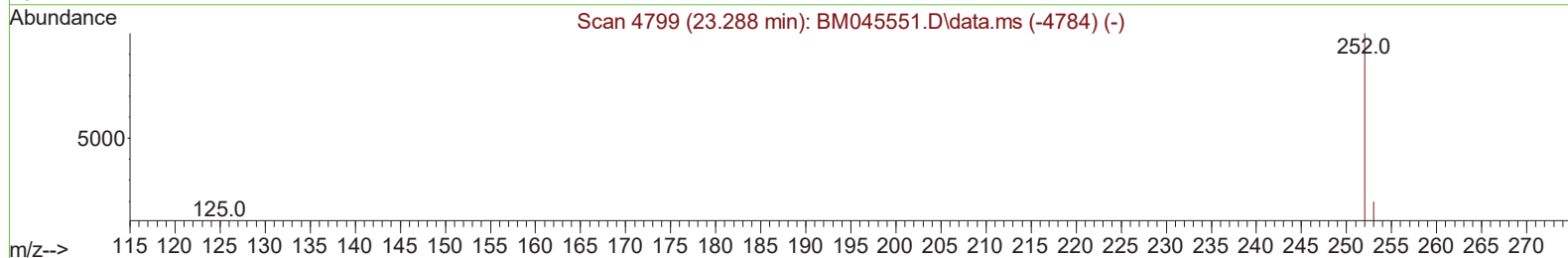
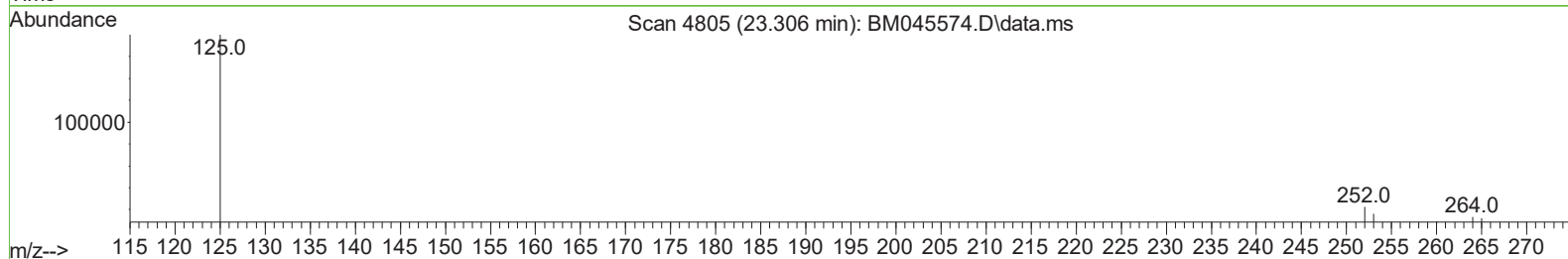
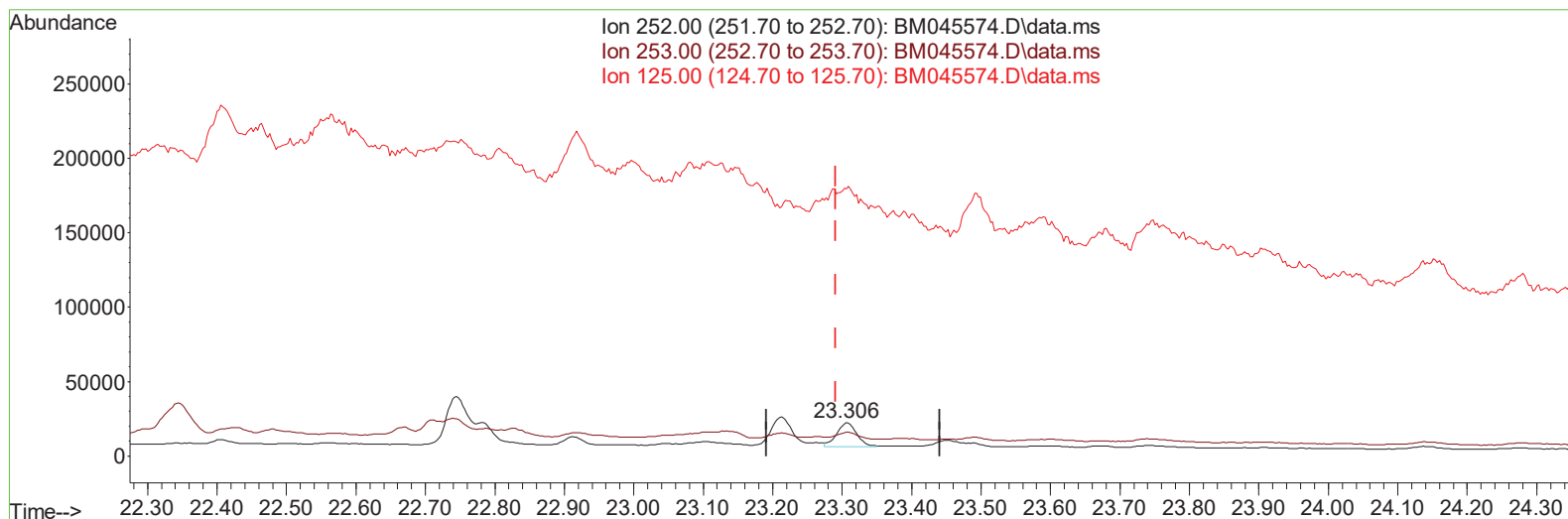
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
Data File : BM045574.D
Acq On : 25 Apr 2024 22:10
Operator : MA/JU
Sample : P2037-23RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX8RE

Manual IntegrationsAPPROVED

Quant Time: Apr 25 23:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045574.D\data.ms

(26) Benzo(a)pyrene (C)

23.306min (+ 0.015) 0.82 ng/ul m

response 32543

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	39.50	71.70#
125.00	24.40	803.14#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042524\
 Data File : BM045574.D
 Acq On : 25 Apr 2024 22:10
 Operator : MA/JU
 Sample : P2037-23RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX8RE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 25 23:14:50 2024
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.547	152	904	0.400	ng/ul	-0.02
4) Naphthalene-d8	10.309	136	2447	0.400	ng/ul	-0.02
9) Acenaphthene-d10	14.196	164	1676	0.400	ng/ul	-0.01
13) Phenanthrene-d10	16.963	188	3880m	0.400	ng/ul	-0.02
17) Chrysene-d12	21.190	240	8608m	0.400	ng/ul	0.00
23) Perylene-d12	23.403	264	11389m	0.400	ng/ul	0.02
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.163	96	4798	3.960	ng/ul	-0.01
6) 2-Methylnaphthalene-d10	11.909	152	1175	0.364	ng/ul	-0.02
18) Fluoranthene-d10	19.010	212	6075m	0.224	ng/ul	0.00
Target Compounds						
					Qvalue	
5) Naphthalene	10.358	128	2024	0.308	ng/ul	97
7) 2-Methylnaphthalene	11.986	142	1460	0.389	ng/ul	97
8) 1-Methylnaphthalene	12.206	142	1665	0.396	ng/ul	99
10) Acenaphthylene	13.909	152	2238	0.271	ng/ul#	1
11) Acenaphthene	14.261	153	564	0.092	ng/ul#	69
15) Phenanthrene	17.001	178	27514m	2.435	ng/ul	
19) Fluoranthene	19.043	202	62015m	1.561	ng/ul	
20) Pyrene	19.410	202	83707	2.050	ng/ul	98
21) Benzo(a)anthracene	21.176	228	28750m	1.045	ng/ul	
22) Chrysene	21.225	228	56413m	1.333	ng/ul	
24) Benzo(b)fluoranthene	22.745	252	69635m	1.818	ng/ul	
25) Benzo(k)fluoranthene	22.783	252	25086m	0.518	ng/ul	
26) Benzo(a)pyrene	23.306	252	32543m	0.819	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.612	276	22664	0.392	ng/ul#	59
29) Benzo(g,h,i)perylene	26.289	276	20779	0.400	ng/ul#	1

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

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Sample : P2037-23RE
Misc :
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Instrument :
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Manual IntegrationsAPPROVED

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