

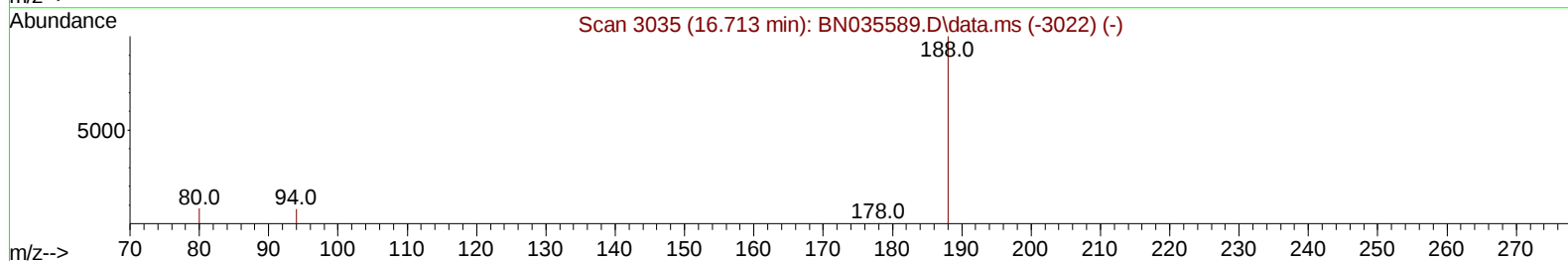
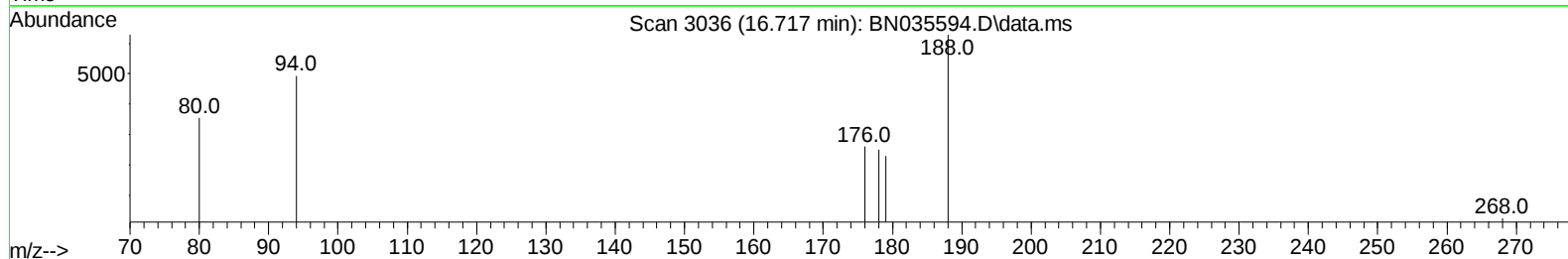
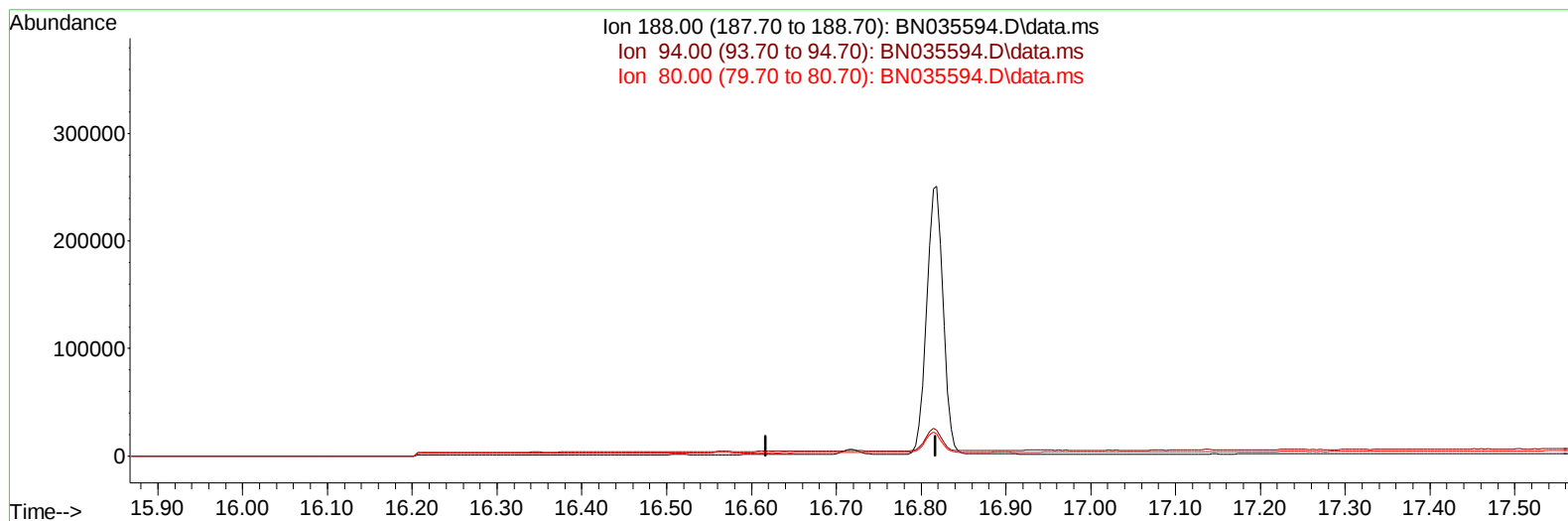
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(13) Phenanthrene-d10 (I)

16.717min (-16.717) 0.00 ng/u1

response 0

Ion	Exp%	Act%
188.00	100.00	0.00
94.00	7.00	0.00#
80.00	7.60	0.00#
0.00	0.00	0.00

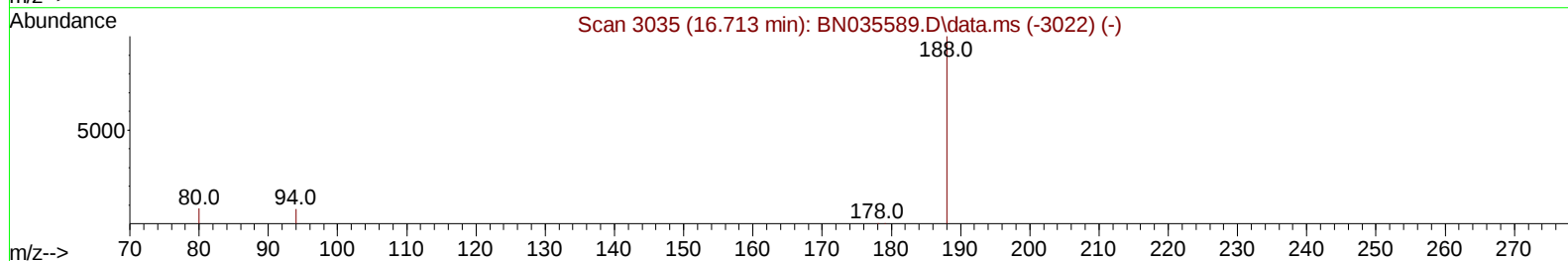
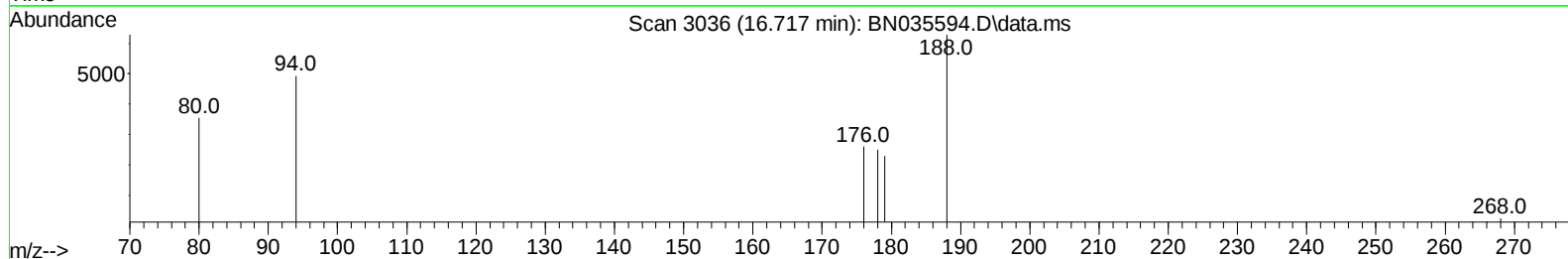
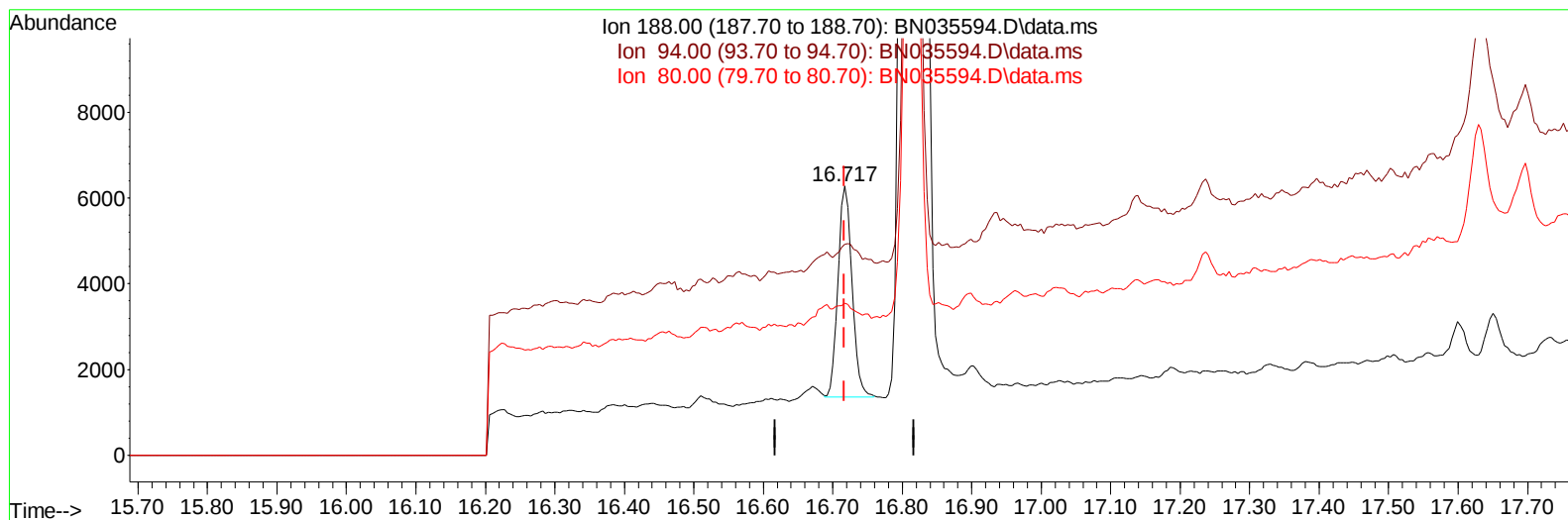
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
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Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(13) Phenanthrene-d10 (I)

16.717min (+ 0.000) 0.40 ng/ul m

response 6859

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	7.00	78.48#
80.00	7.60	56.48#
0.00	0.00	0.00

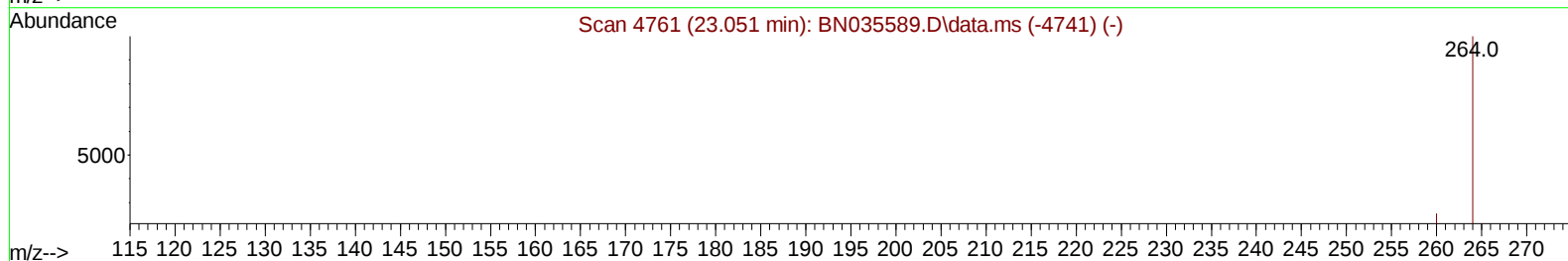
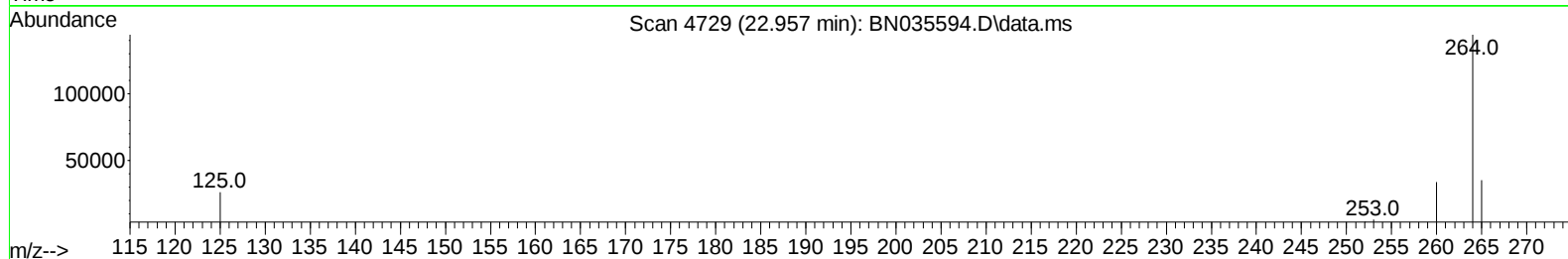
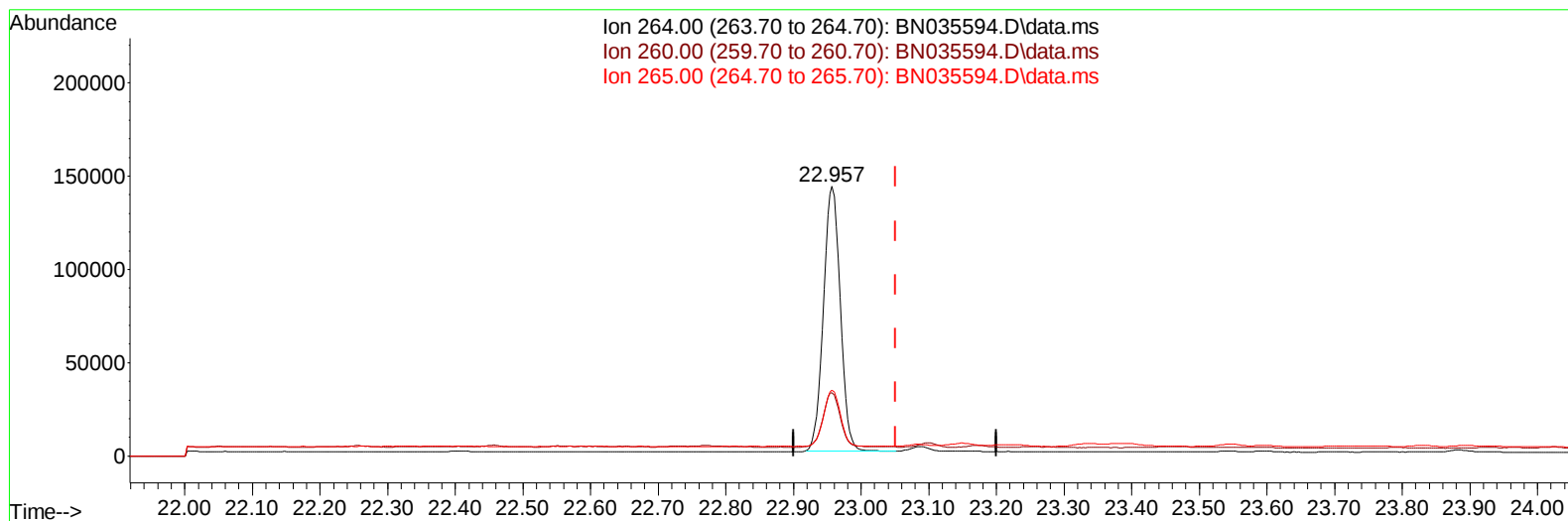
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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Reviewed By :Yogesh Patel 12/14/2024
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TIC: BN035594.D\data.ms

(23) Perylene-d12 (I)

22.957min (-0.094) 0.40 ng/u1

response 245852

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	26.20	23.48
265.00	75.50	24.42#
0.00	0.00	0.00

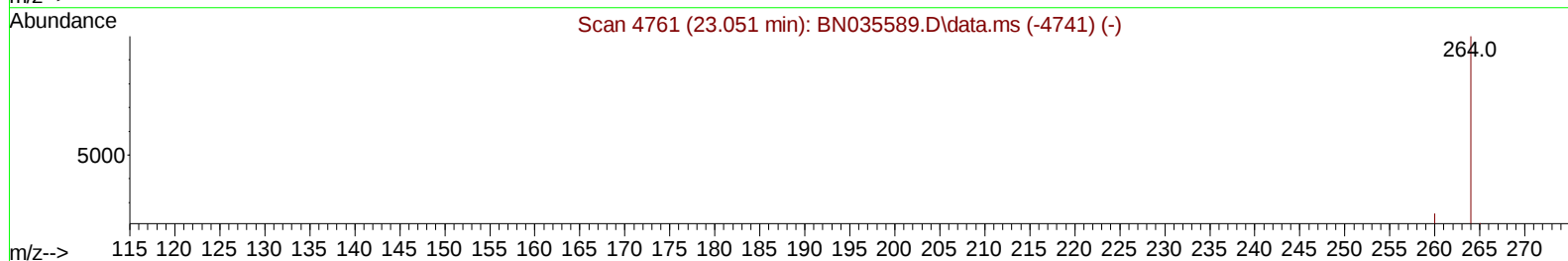
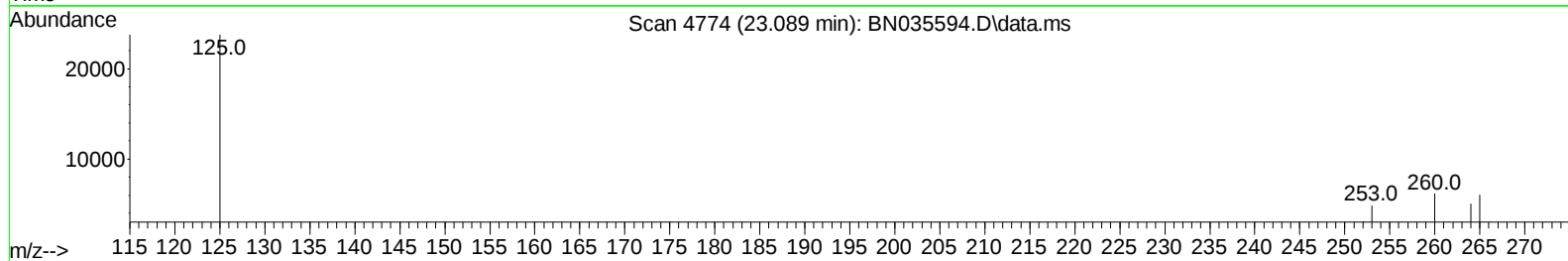
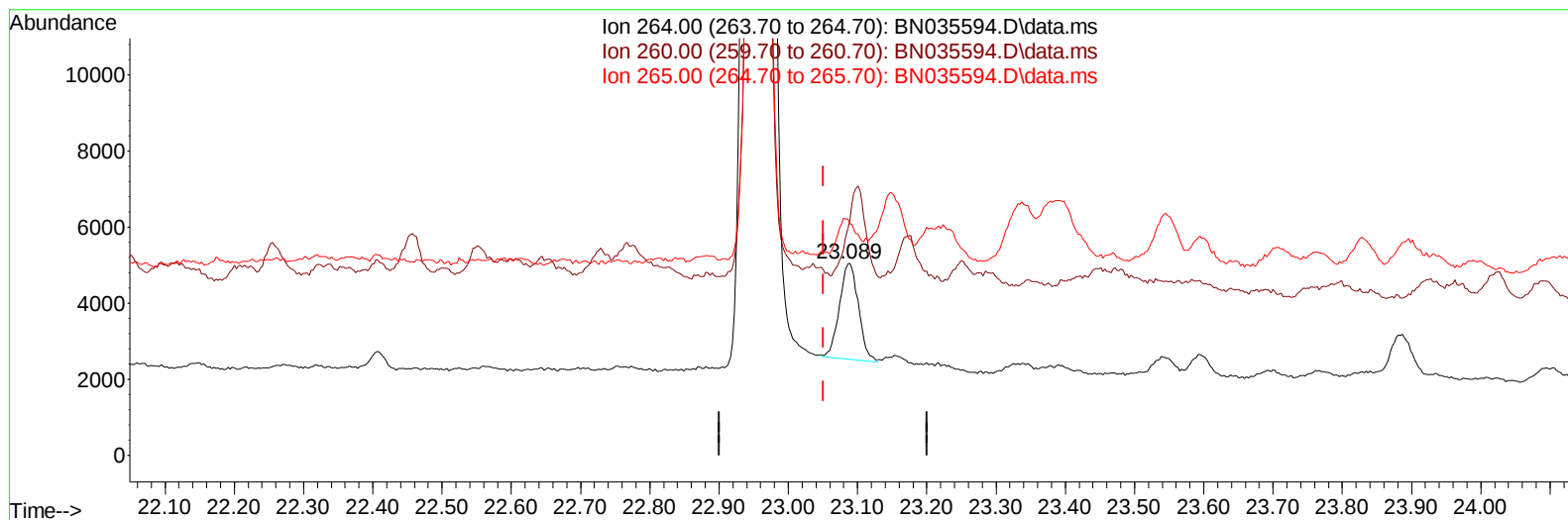
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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QLast Update : Tue Dec 10 16:10:57 2024
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Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(23) Perylene-d12 (I)

23.089min (+ 0.038) 0.40 ng/ul m

response 4785

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	26.20	122.35#
265.00	75.50	120.69#
0.00	0.00	0.00

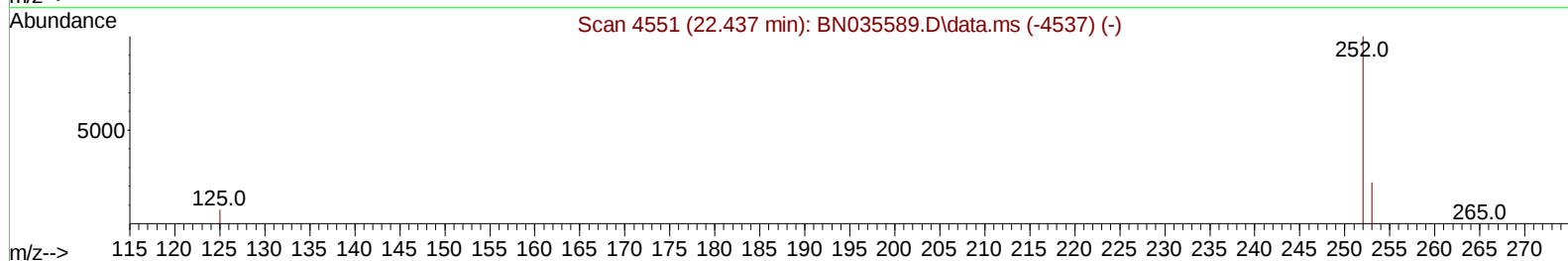
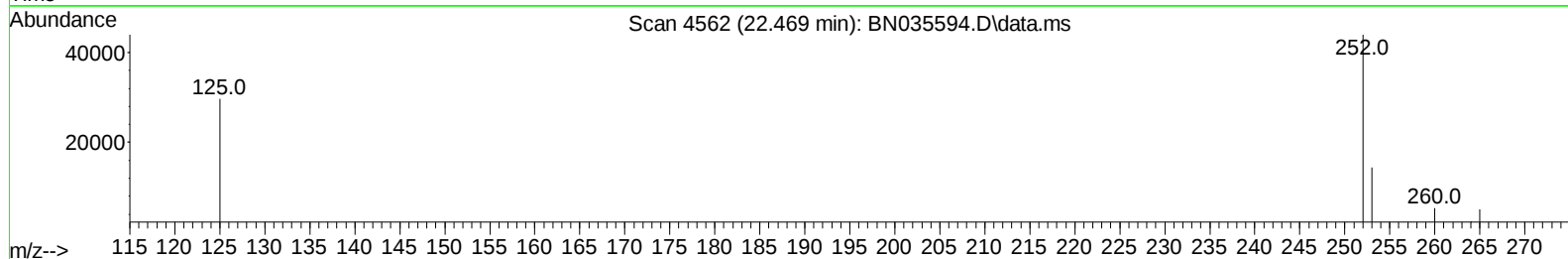
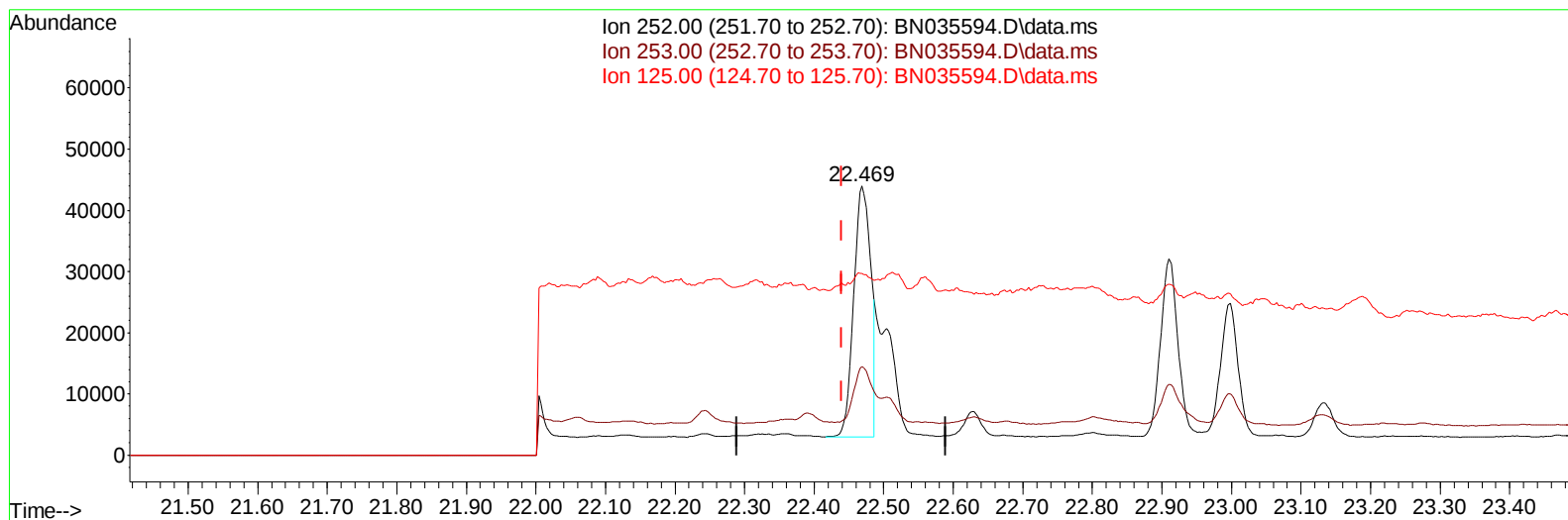
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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TIC: BN035594.D\data.ms

(24) Benzo(b)fluoranthene

22.469min (+ 0.029) 4.45 ng/u1

response 70394

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.00	32.90
125.00	9.70	67.66#
0.00	0.00	0.00

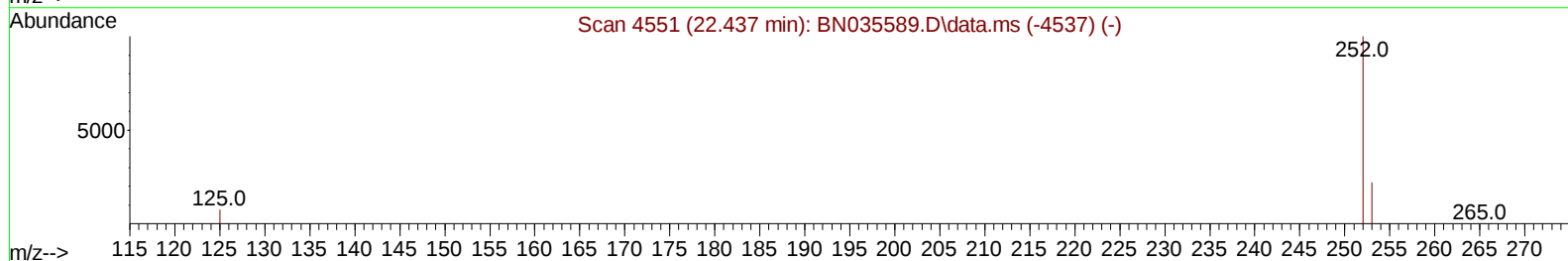
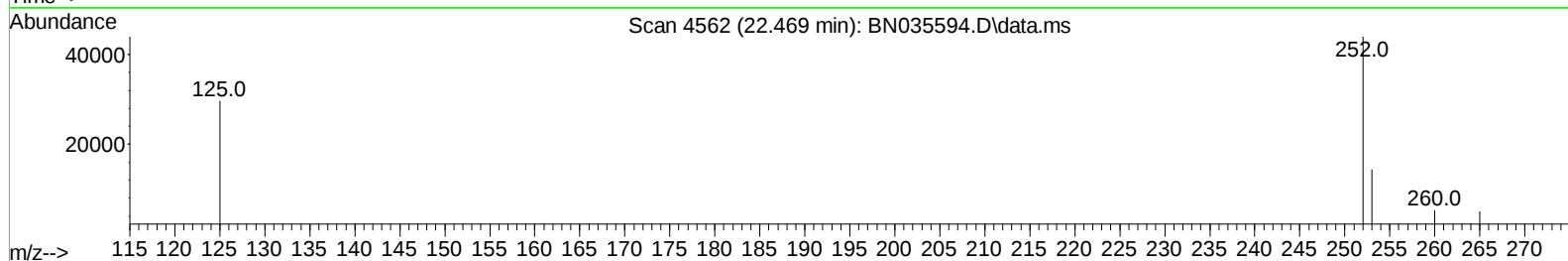
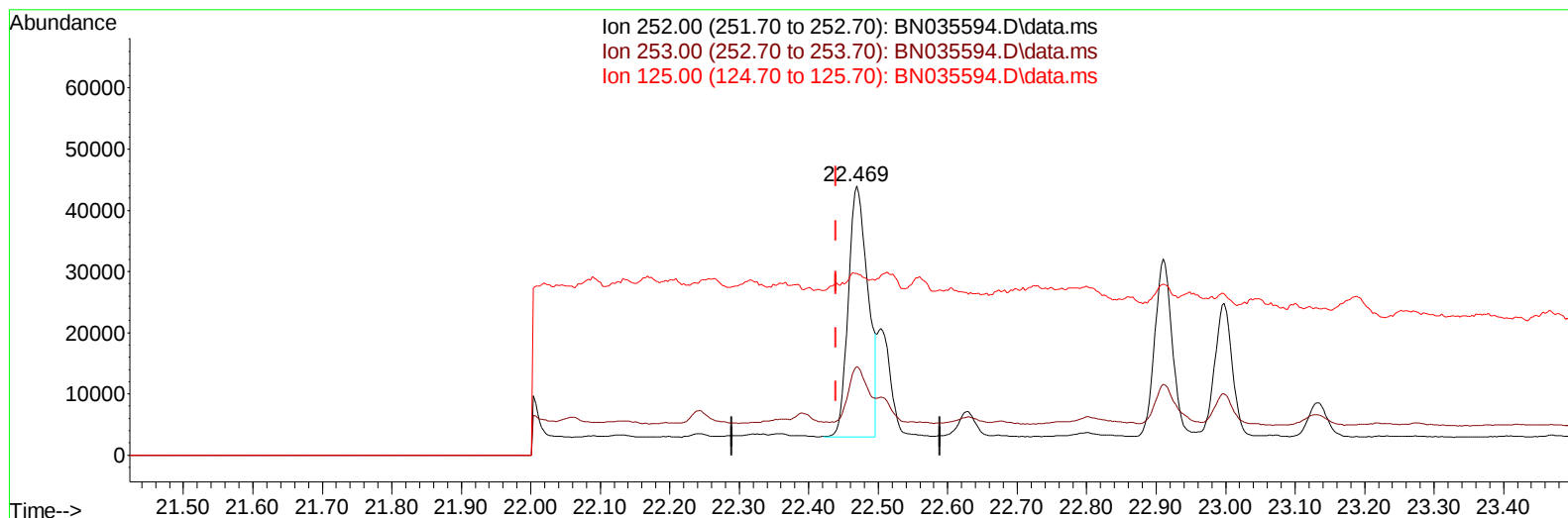
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(24) Benzo(b)fluoranthene

22.469min (+ 0.029) 5.08 ng/u1 m

response 80284

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.00	32.90
125.00	9.70	67.66#
0.00	0.00	0.00

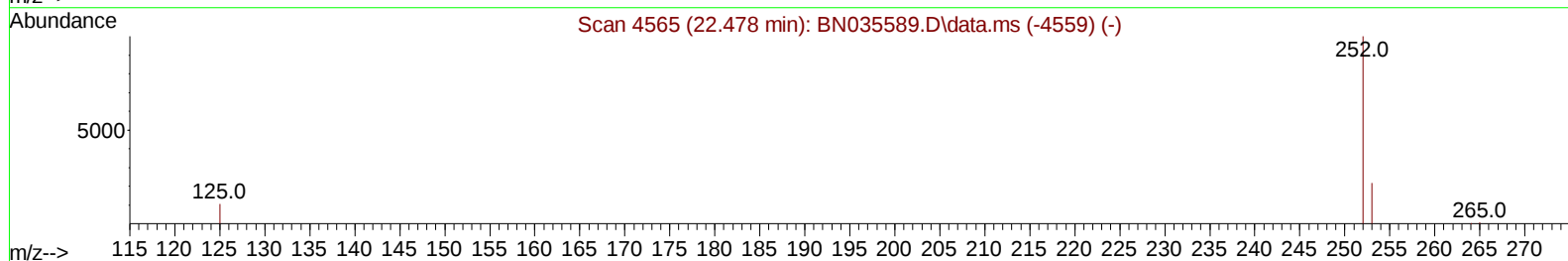
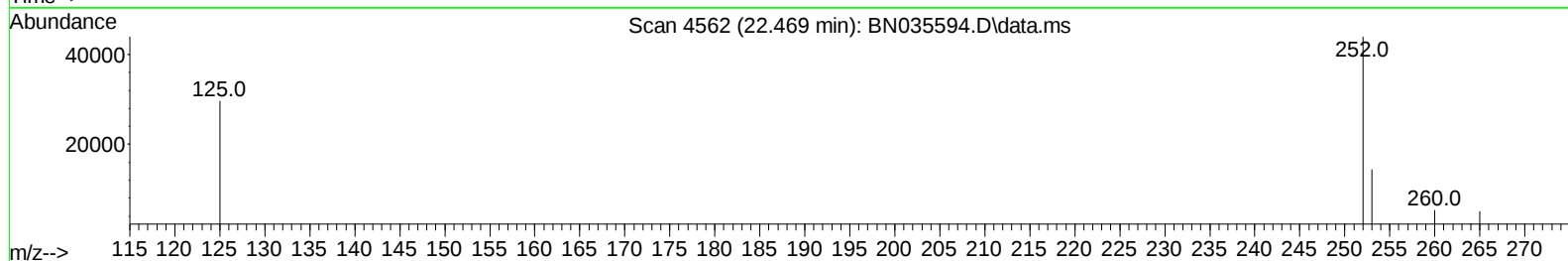
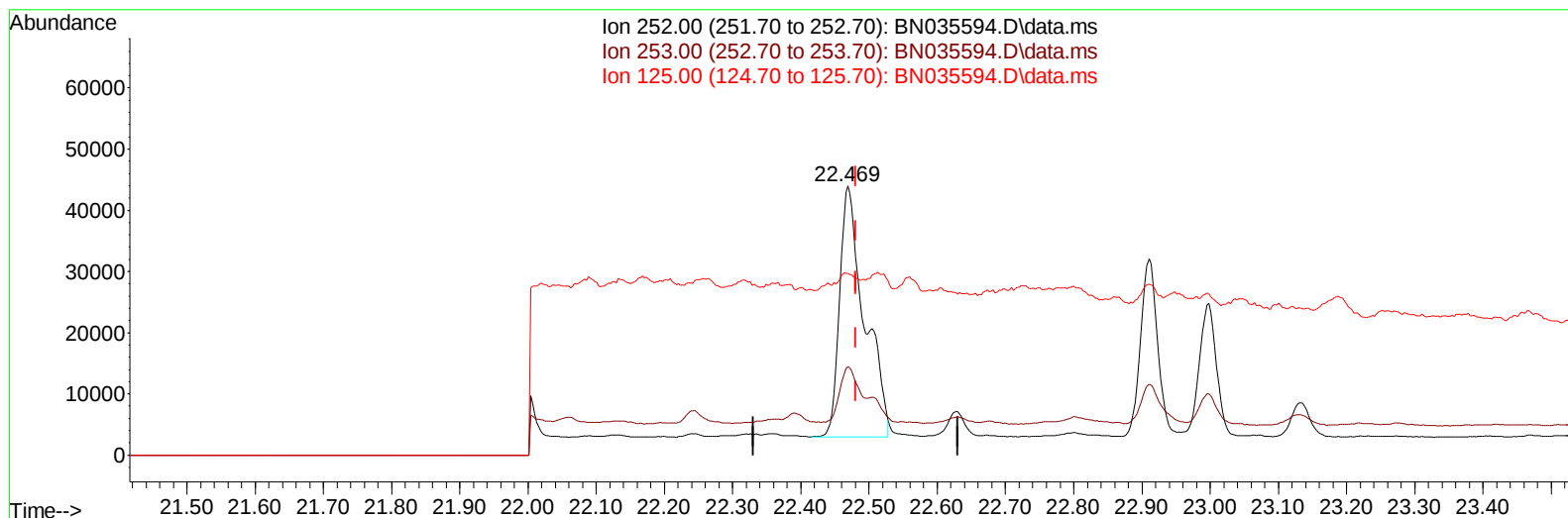
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
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Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(25) Benzo(k)fluoranthene

22.469min (-0.012) 6.34 ng/u1

response 103414

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.20	32.90#
125.00	10.70	67.66#
0.00	0.00	0.00

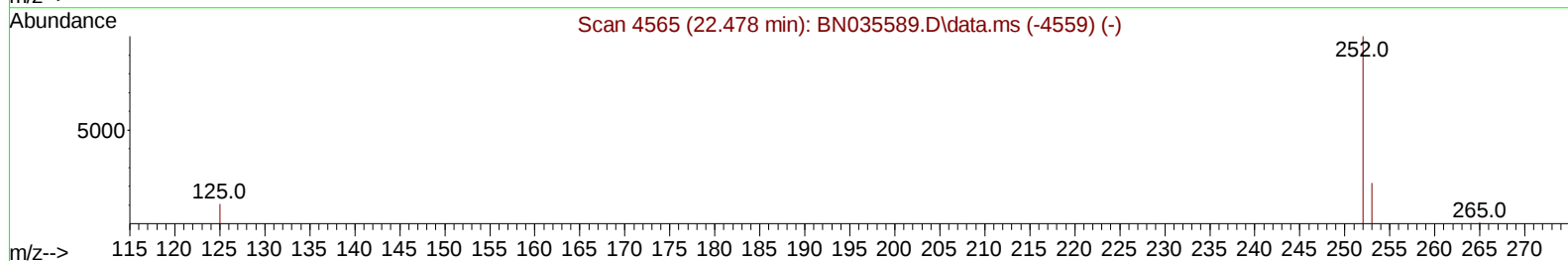
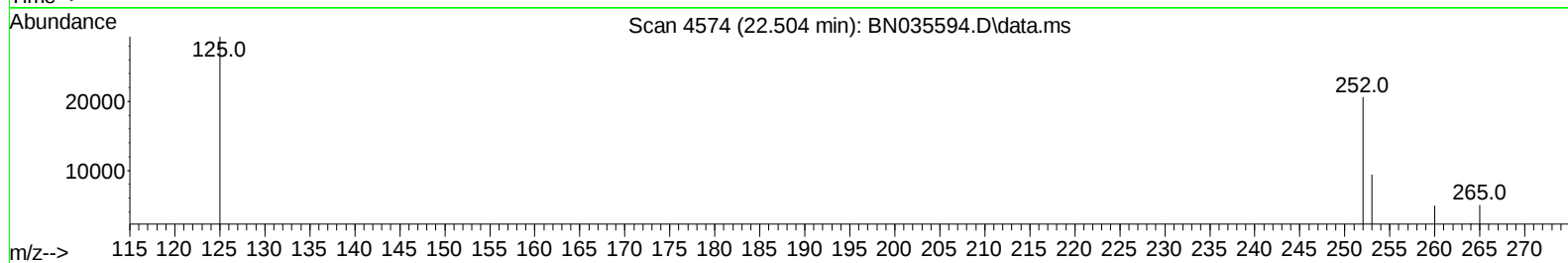
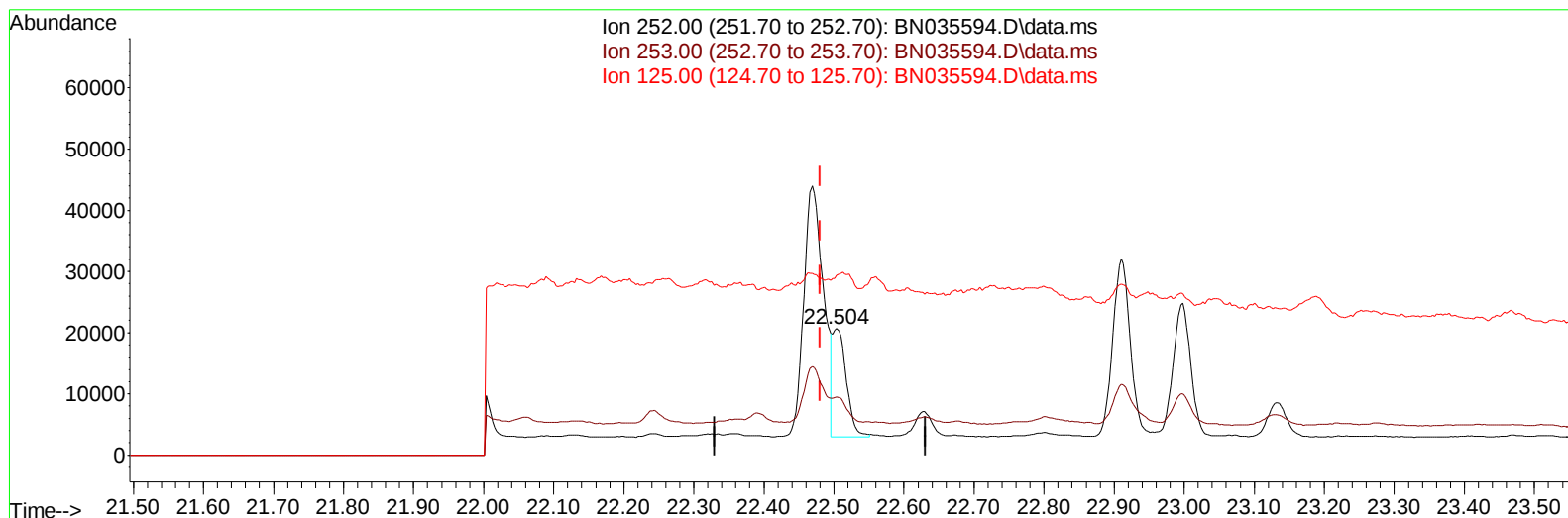
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
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Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(25) Benzo(k)fluoranthene

22.504min (+ 0.023) 1.51 ng/u1 m

response 24654

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.20	45.83#
125.00	10.70	142.33#
0.00	0.00	0.00

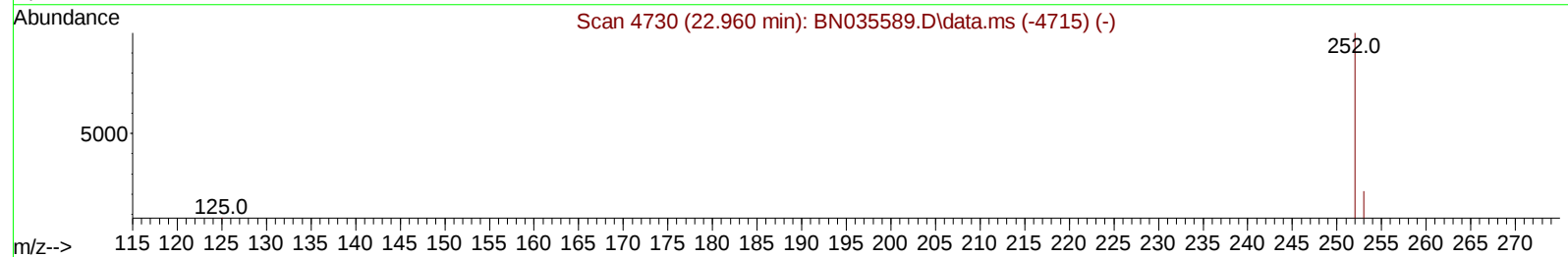
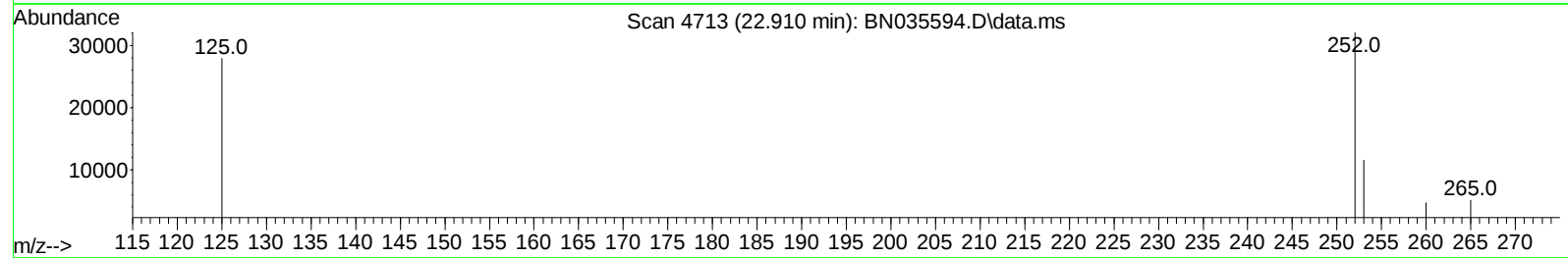
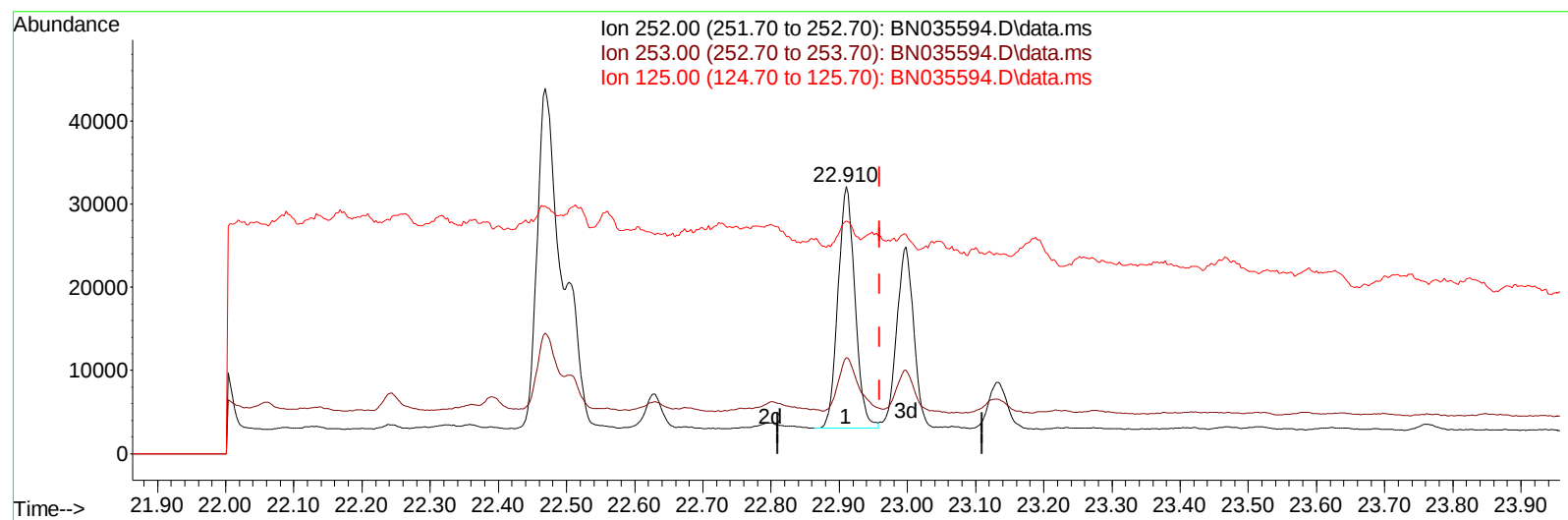
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
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TIC: BN035594.D\data.ms

(26) Benzo(a)pyrene (C)

22.910min (-0.050) 3.50 ng/u1

response 50562

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.60	36.09#
125.00	11.80	87.11#
0.00	0.00	0.00

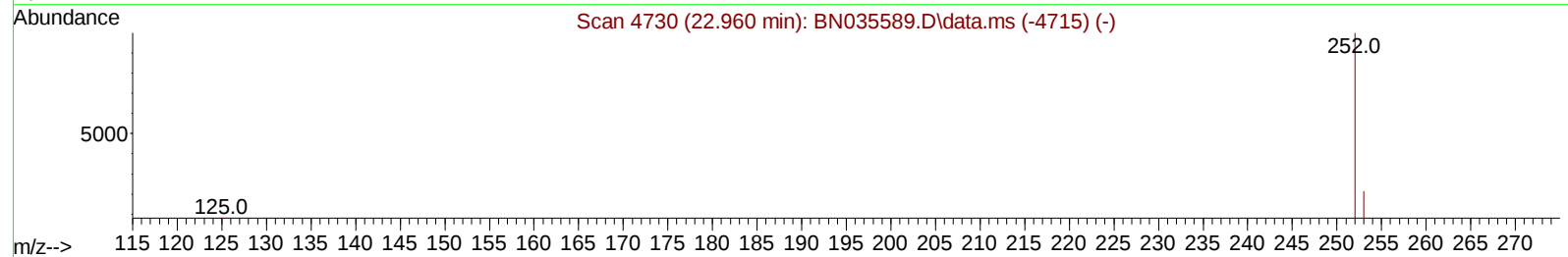
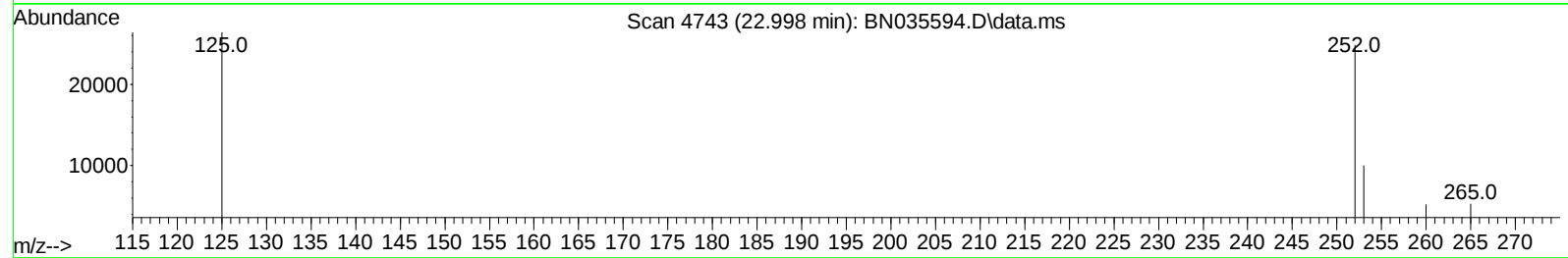
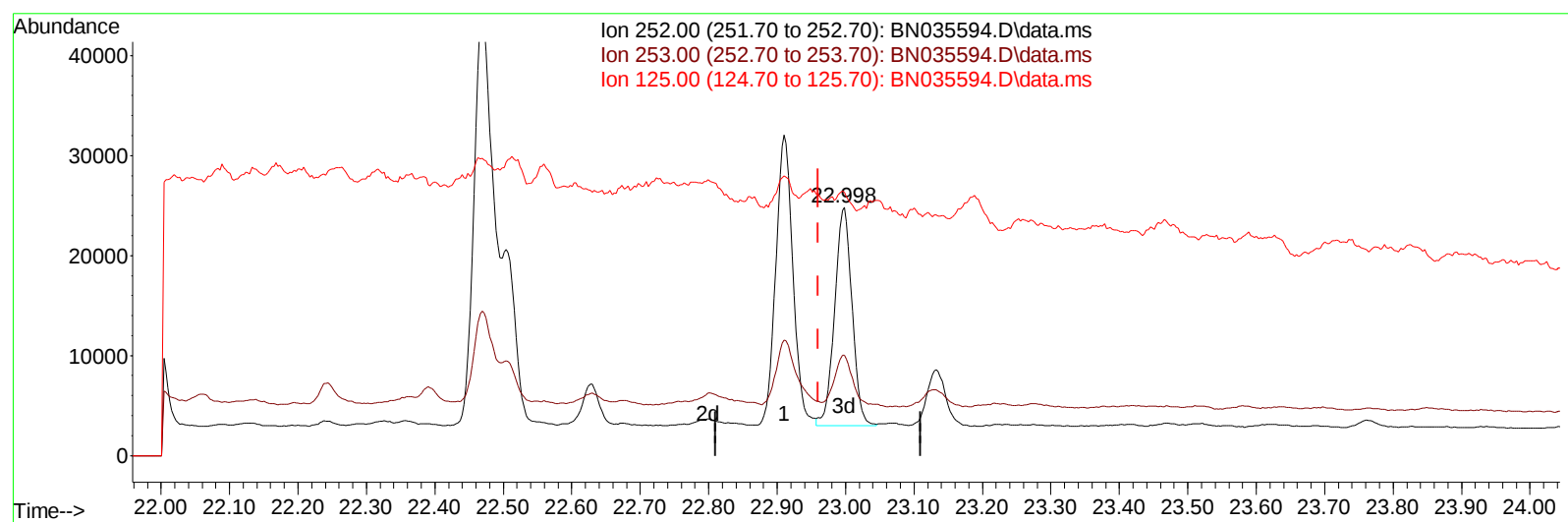
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
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Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(26) Benzo(a)pyrene (C)

22.998min (+ 0.038) 2.64 ng/u1 m

response 38227

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.60	40.34#
125.00	11.80	106.19#
0.00	0.00	0.00

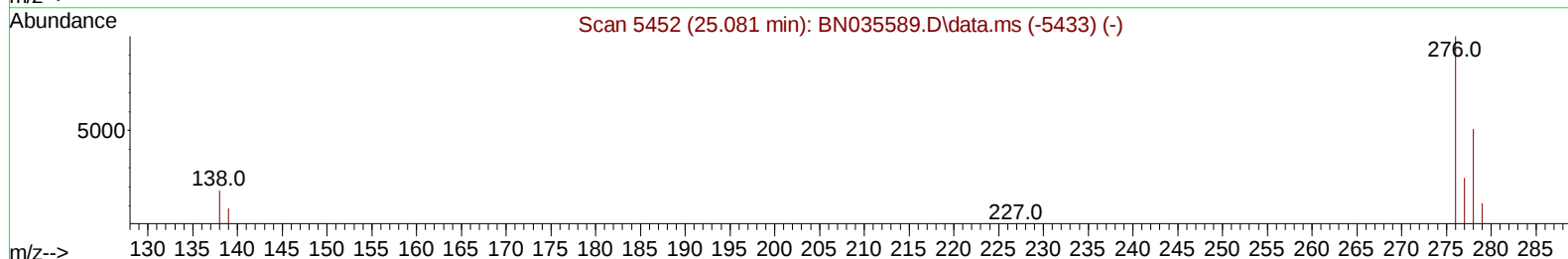
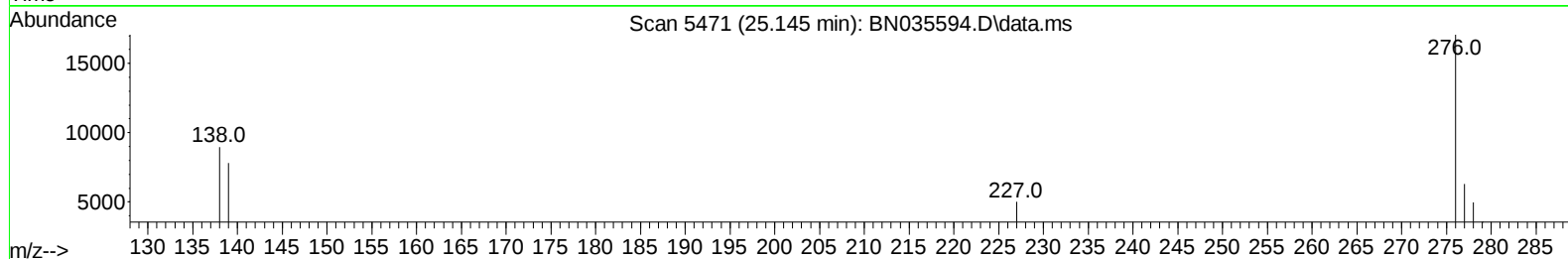
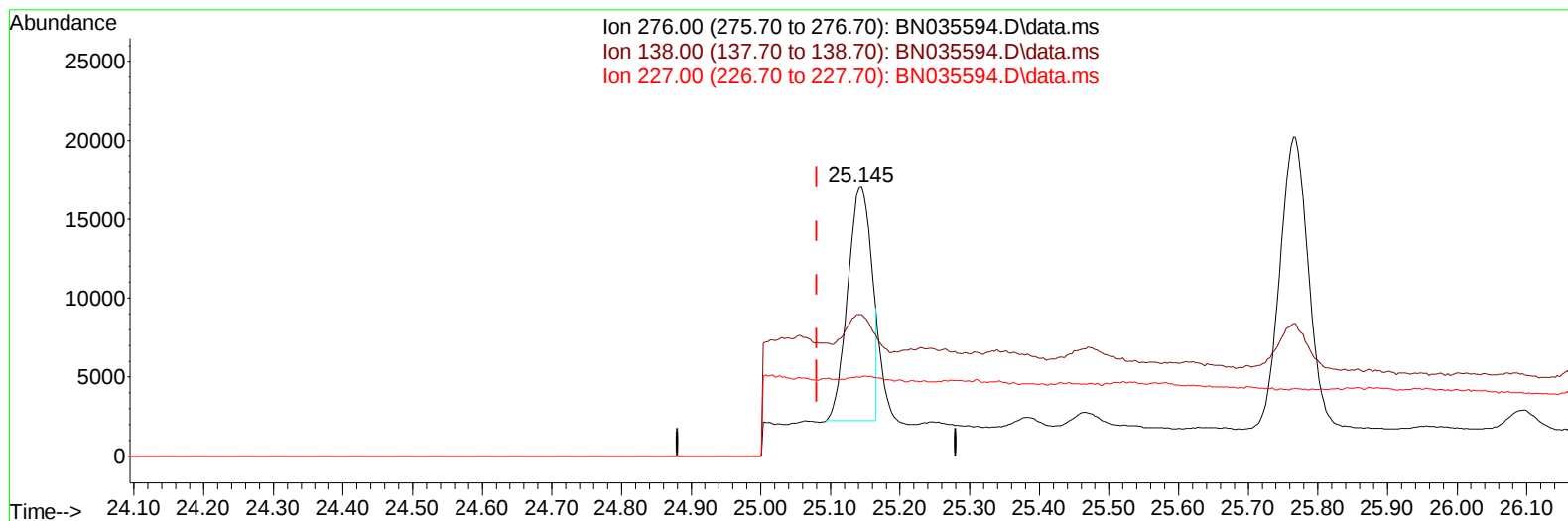
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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TIC: BN035594.D\data.ms

(27) Indeno(1,2,3-cd)pyrene

25.145min (+ 0.064) 1.78 ng/u1

response 34816

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	17.30	215.91#
227.00	0.30	0.00#
0.00	0.00	0.00

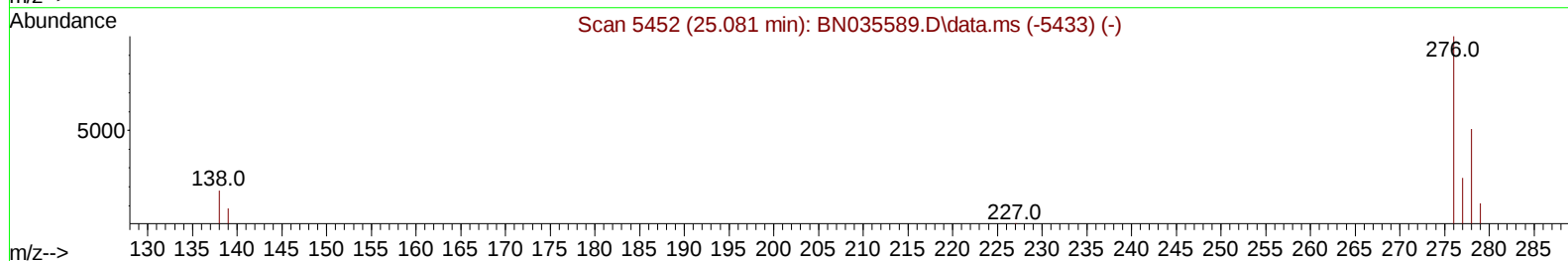
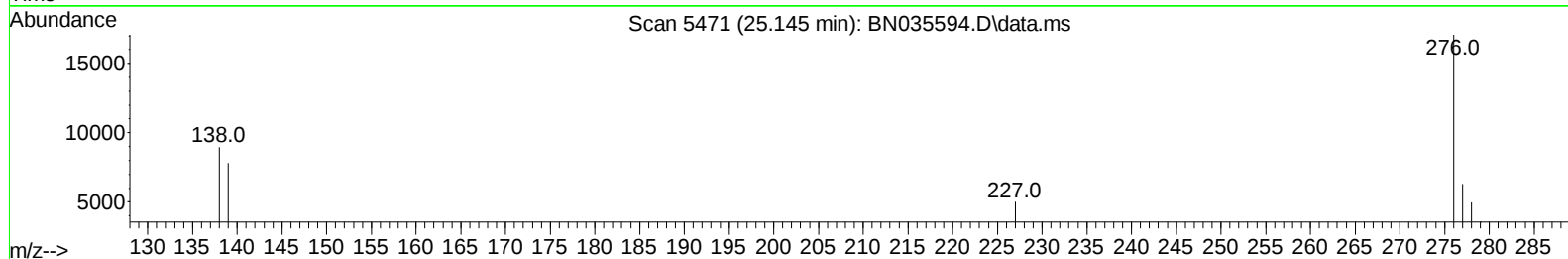
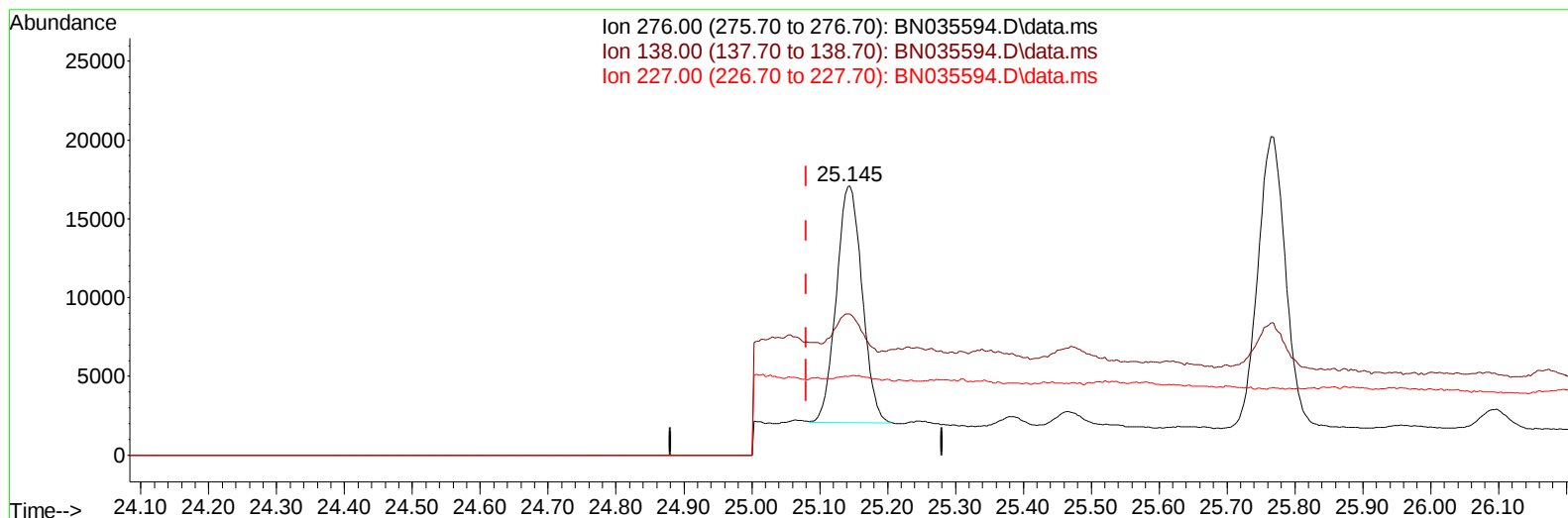
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
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Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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TIC: BN035594.D\data.ms

(27) Indeno(1,2,3-cd)pyrene

25.145min (+ 0.064) 2.03 ng/u1 m

response 39658

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	17.30	189.55#
227.00	0.30	0.00#
0.00	0.00	0.00

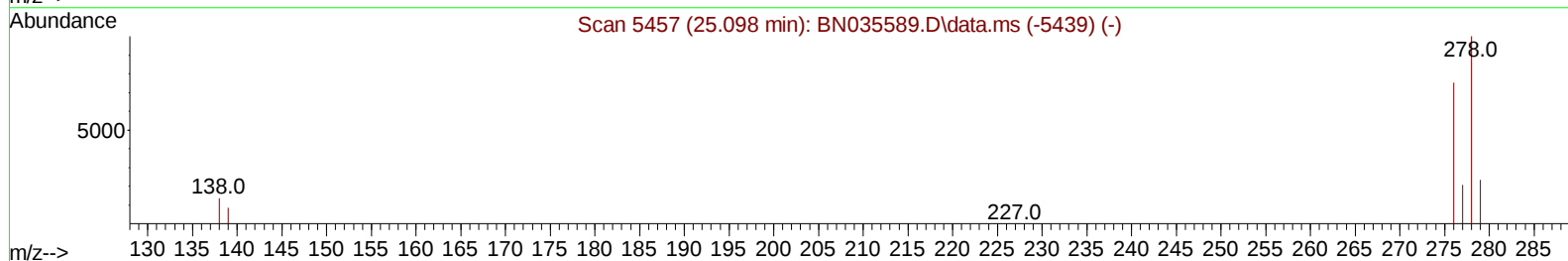
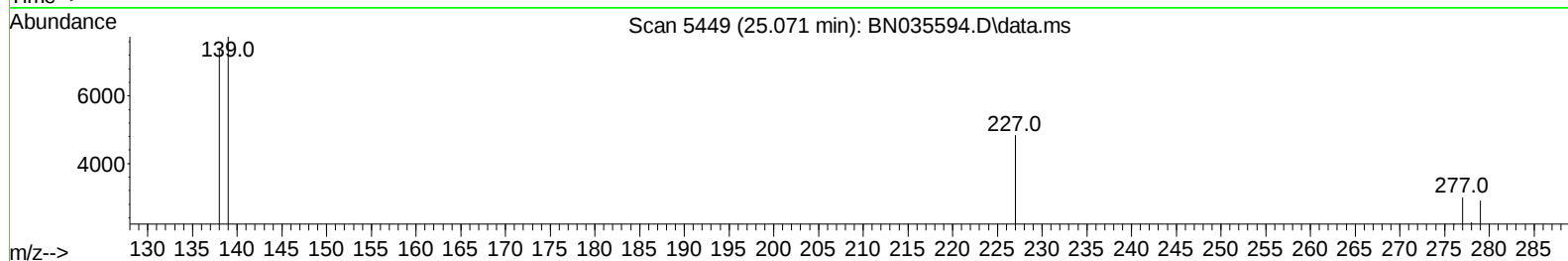
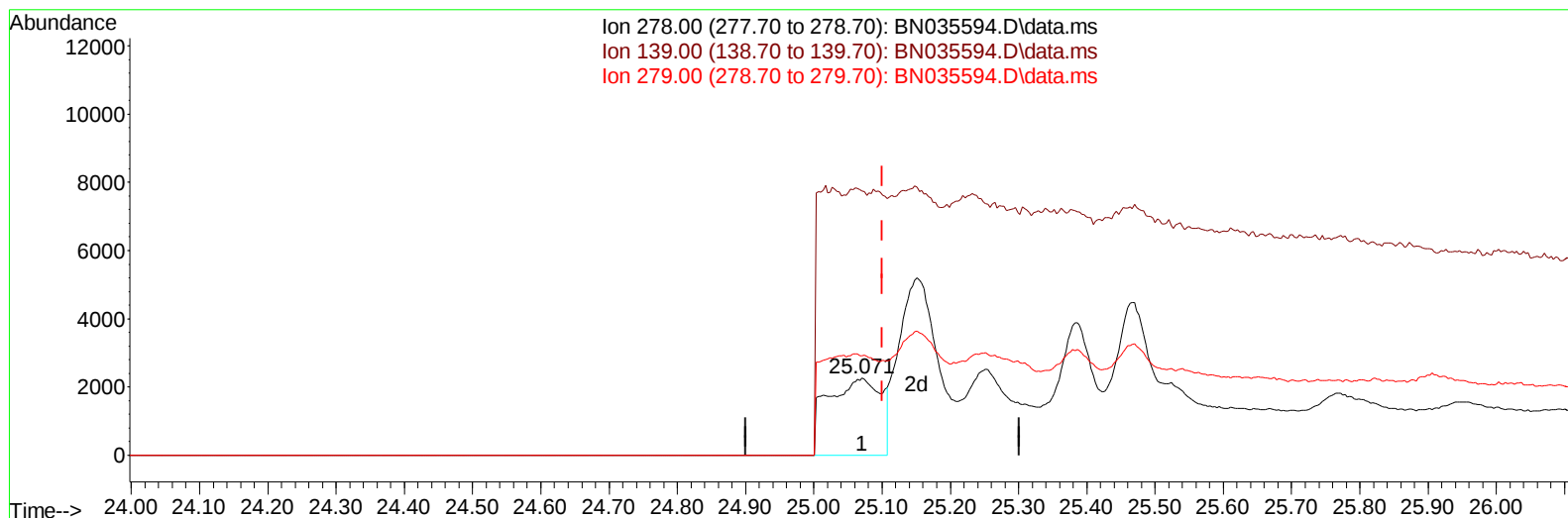
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
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Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(28) Dibenzo(a,h)anthracene

25.071min (-0.030) 0.79 ng/u1

response 12153

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	13.40	342.18#
279.00	28.50	128.80#
0.00	0.00	0.00

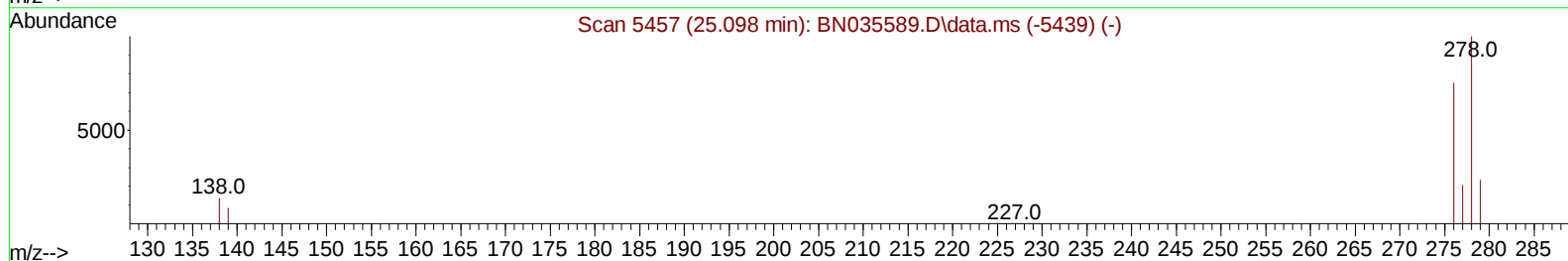
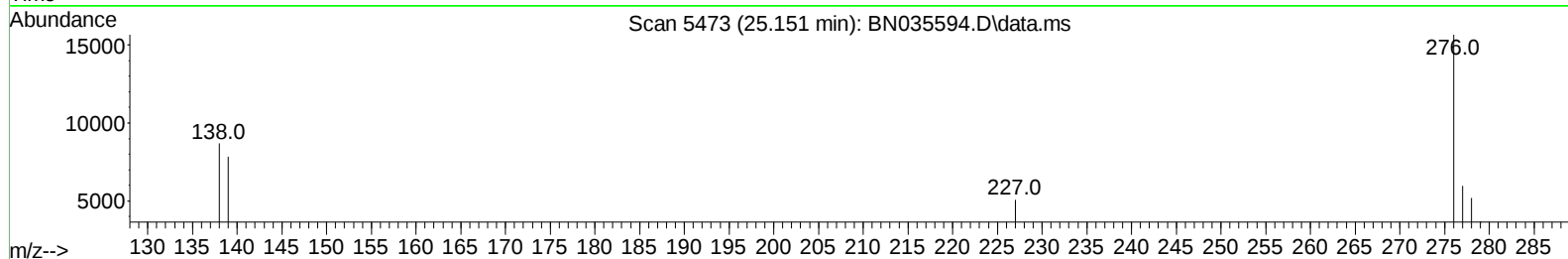
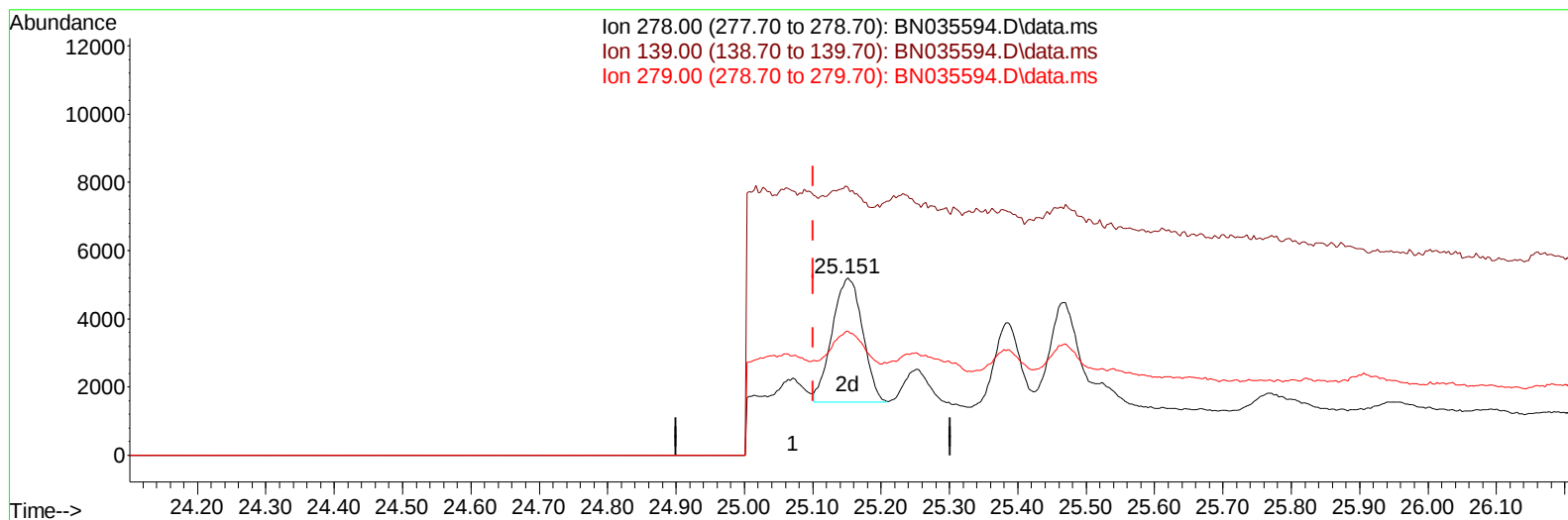
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(28) Dibenzo(a,h)anthracene

25.151min (+ 0.050) 0.74 ng/ul m

response 11348

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	13.40	151.25#
279.00	28.50	70.18#
0.00	0.00	0.00

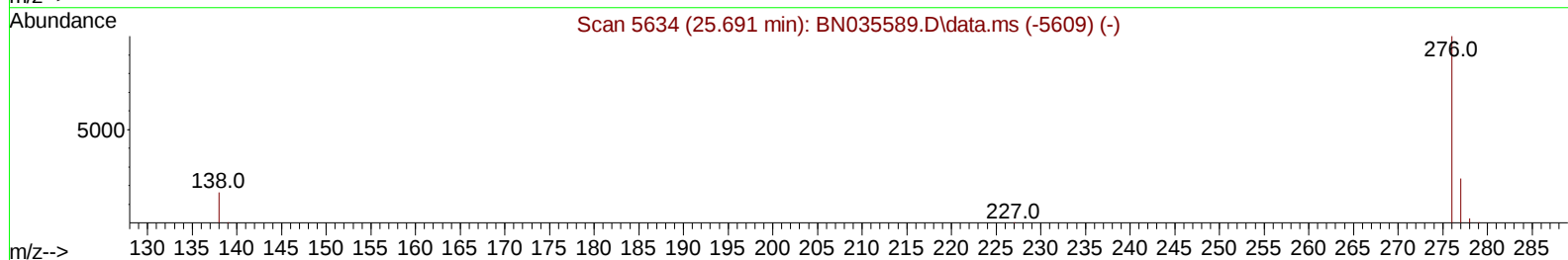
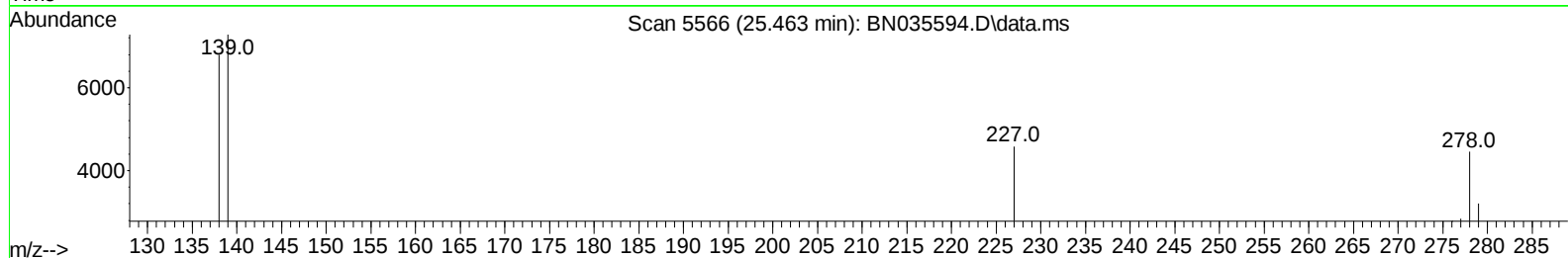
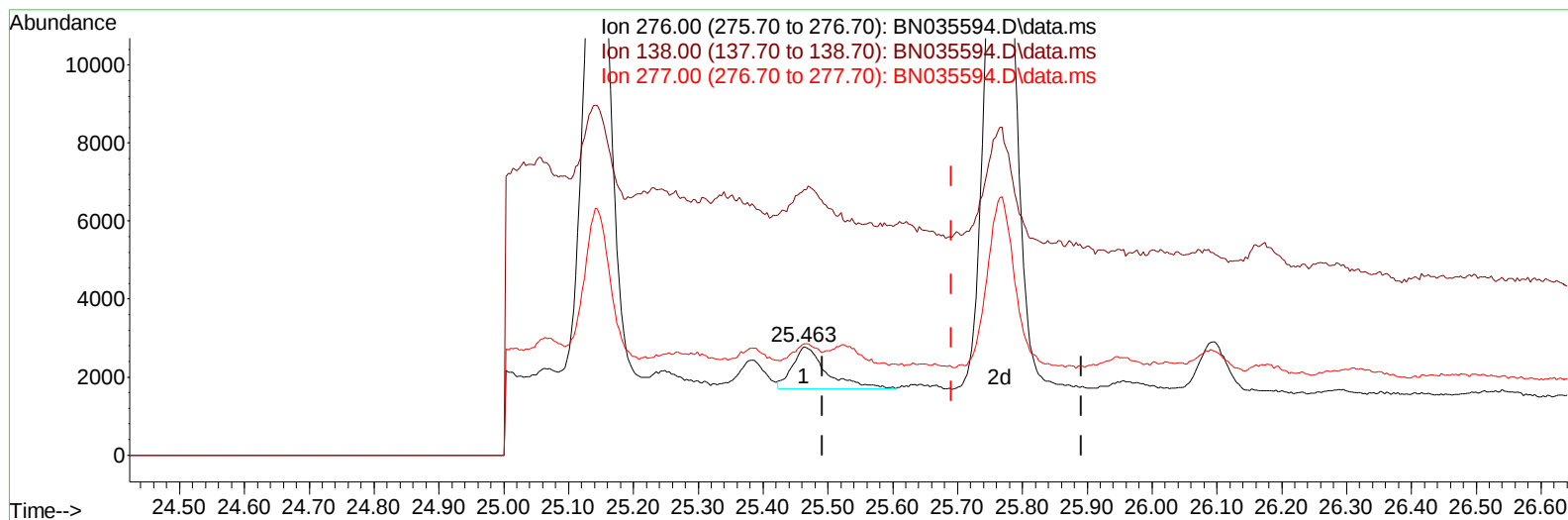
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

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TIC: BN035594.D\data.ms

(29) Benzo(g,h,i)perylene

25.463min (-0.228) 0.25 ng/u1

response 3925

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	16.30	244.62#
277.00	25.60	102.41#
0.00	0.00	0.00

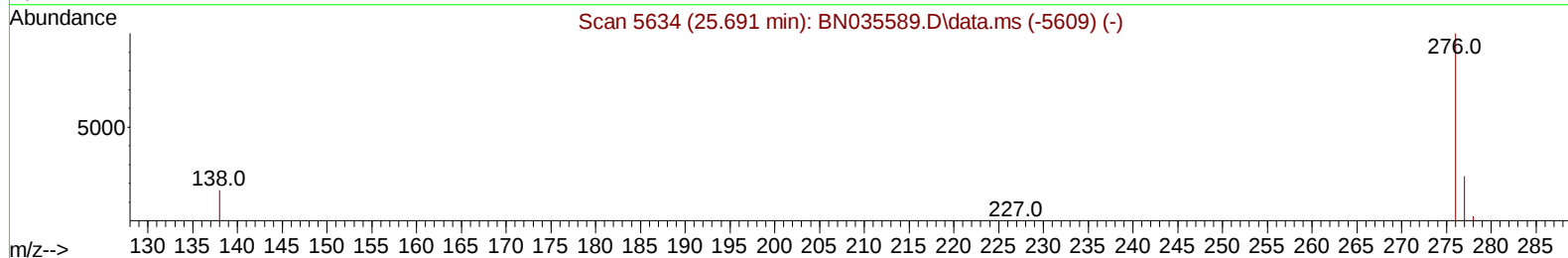
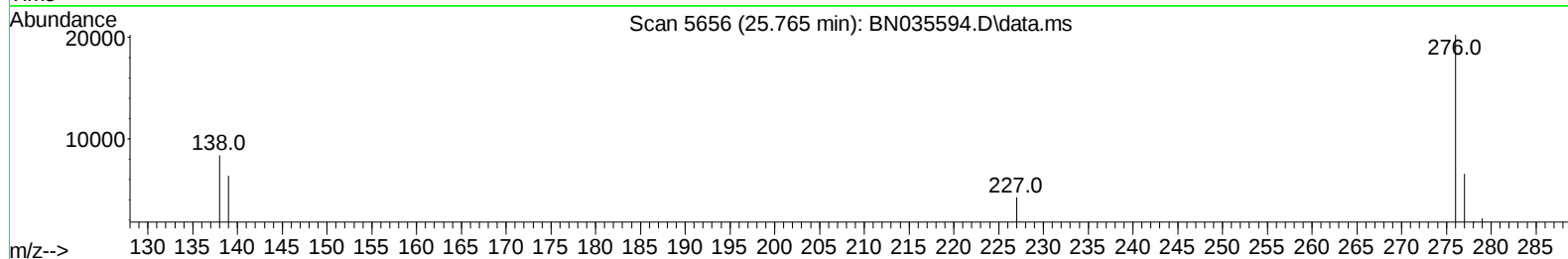
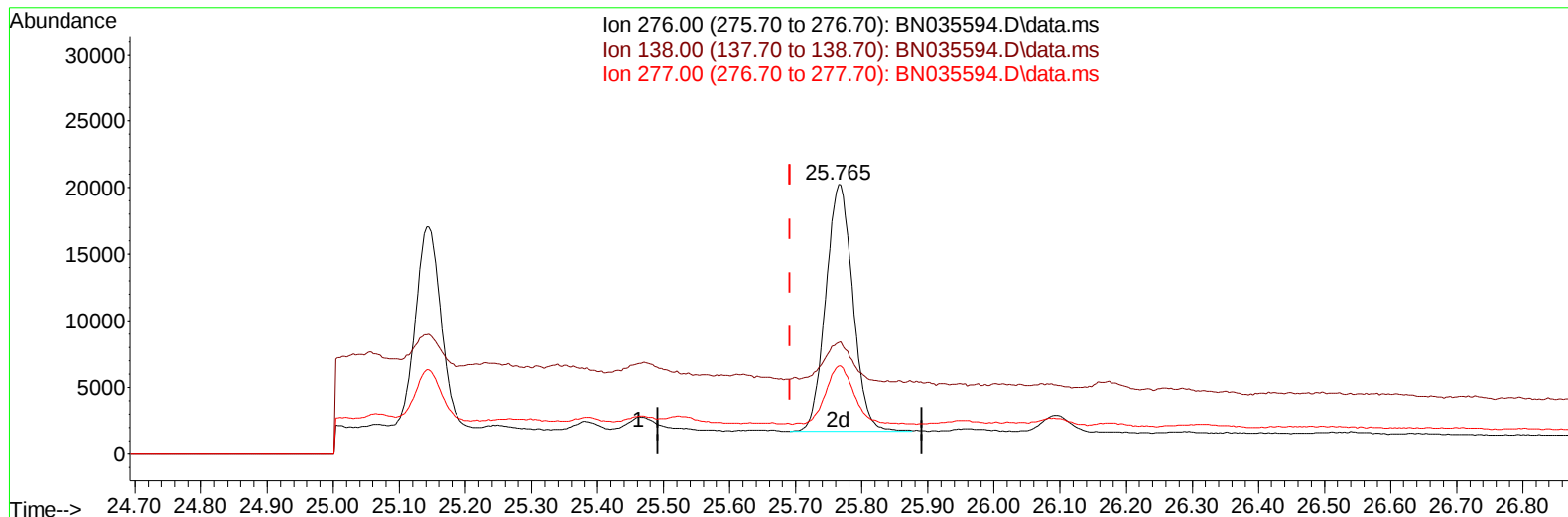
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
Acq On : 13 Dec 2024 13:18
Operator : RC/JU
Sample : P5153-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28Q4

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:22:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
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Reviewed By :Yogesh Patel 12/14/2024
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035594.D\data.ms

(29) Benzo(g,h,i)perylene

25.765min (+ 0.074) 3.45 ng/ul m

response 53073

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	16.30	41.46#
277.00	25.60	32.59#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
 Data File : BN035594.D
 Acq On : 13 Dec 2024 13:18
 Operator : RC/JU
 Sample : P5153-17
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 E28Q4

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/14/2024
 Supervised By :mohammad ahmed 12/14/2024

Quant Time: Dec 13 15:22:26 2024
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.288	152	2032	0.400	ng/ul	# 0.00
4) Naphthalene-d8	10.031	136	8859	0.400	ng/ul	# 0.00
9) Acenaphthene-d10	13.949	164	5157	0.400	ng/ul	# 0.00
13) Phenanthrene-d10	16.717	188	6859m	0.400	ng/ul	0.00
17) Chrysene-d12	20.973	240	4842	0.400	ng/ul	# 0.01
23) Perylene-d12	23.089	264	4785m	0.400	ng/ul	0.04
System Monitoring Compounds						
3) 1,4-Dioxane-d8	2.959	96	10172	5.477	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.631	152	2435	0.188	ng/ul	-0.01
18) Fluoranthene-d10	18.772	212	5152	0.386	ng/ul	0.00
Target Compounds						
						Qvalue
5) Naphthalene	10.080	128	30637	1.373	ng/ul	99
7) 2-Methylnaphthalene	11.708	142	43740	2.826	ng/ul	98
8) 1-Methylnaphthalene	11.939	142	13619	0.872	ng/ul	96
10) Acenaphthylene	13.662	152	7630	0.373	ng/ul#	71
11) Acenaphthene	14.009	153	1448	0.093	ng/ul#	81
12) Fluorene	15.013	166	5552	0.302	ng/ul#	86
14) Pentachlorophenol	16.379	266	979	0.613	ng/ul	95
15) Phenanthrene	16.759	178	79303	4.373	ng/ul	94
16) Anthracene	16.848	178	40519	2.408	ng/ul#	85
19) Fluoranthene	18.805	202	66974	3.973	ng/ul#	94
20) Pyrene	19.172	202	67030	3.821	ng/ul#	93
21) Benzo(a)anthracene	20.958	228	43283	2.576	ng/ul#	67
22) Chrysene	21.011	228	67485	3.991	ng/ul#	75
24) Benzo(b)fluoranthene	22.469	252	80284m	5.076	ng/ul	
25) Benzo(k)fluoranthene	22.504	252	24654m	1.512	ng/ul	
26) Benzo(a)pyrene	22.998	252	38227m	2.645	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.145	276	39658m	2.031	ng/ul	
28) Dibenzo(a,h)anthracene	25.151	278	11348m	0.742	ng/ul	
29) Benzo(g,h,i)perylene	25.765	276	53073m	3.448	ng/ul	

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121324\
Data File : BN035594.D
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Misc :
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Instrument :
BNA_N
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