

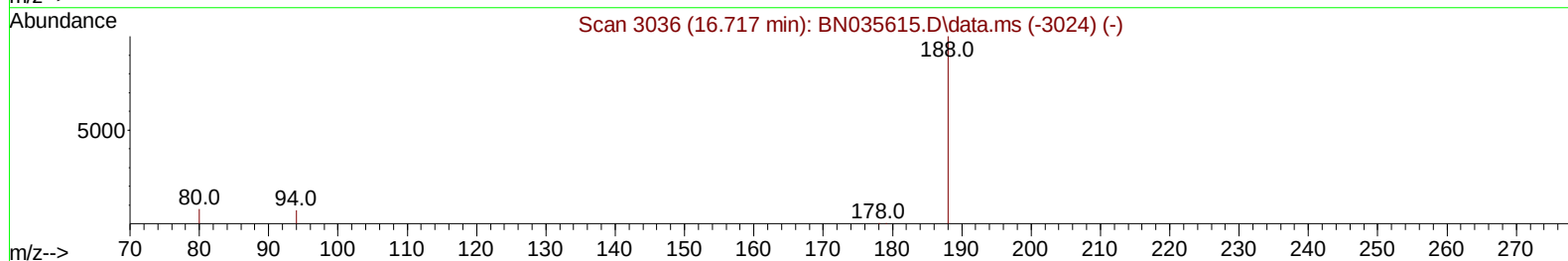
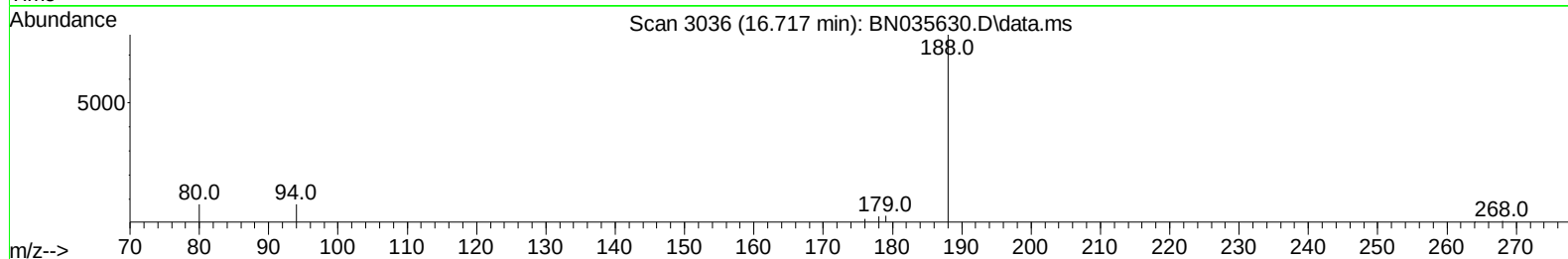
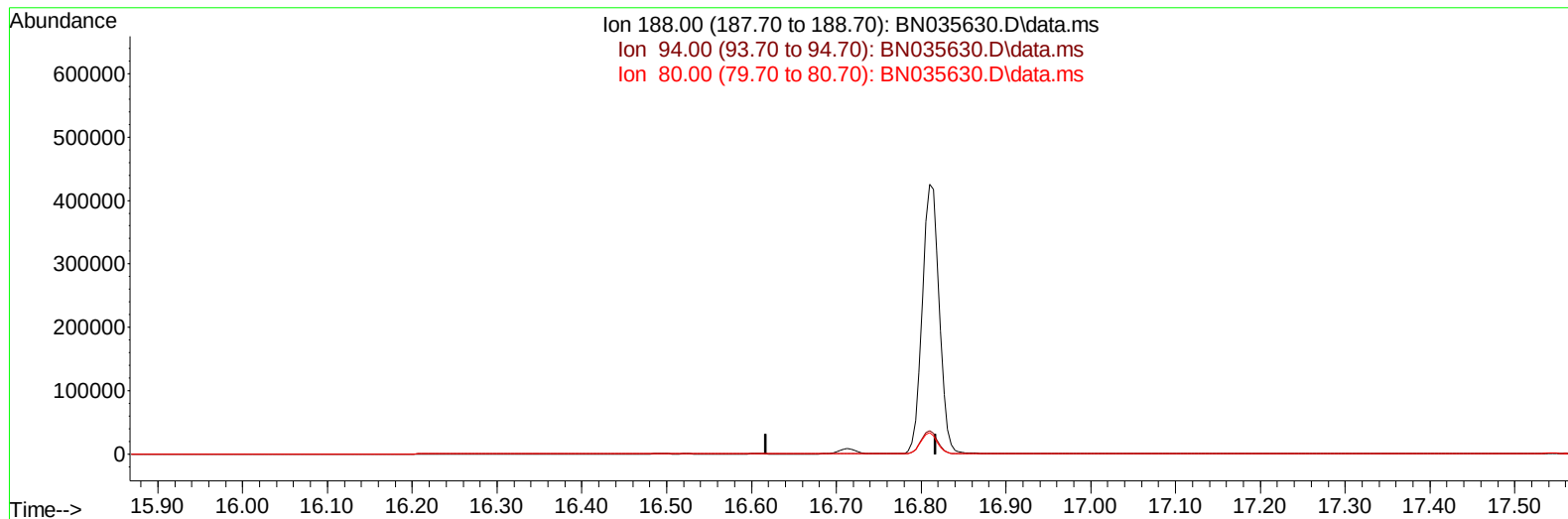
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.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	8.50	0.00#
80.00	9.10	0.00#
0.00	0.00	0.00

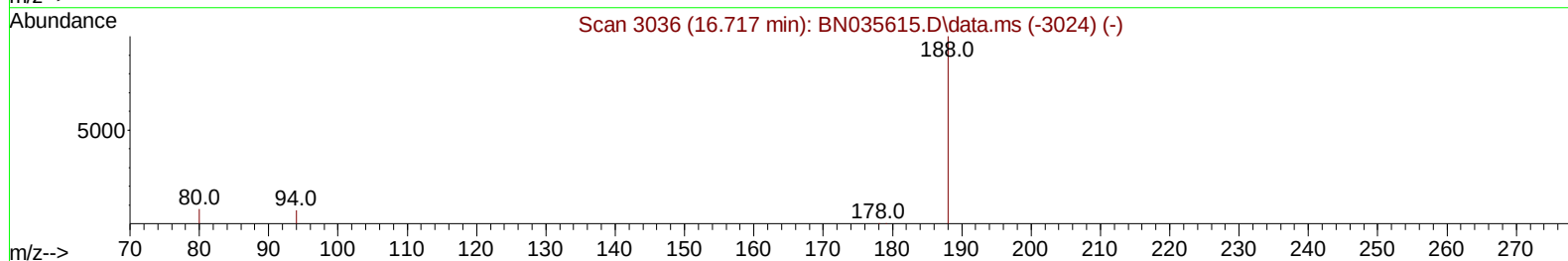
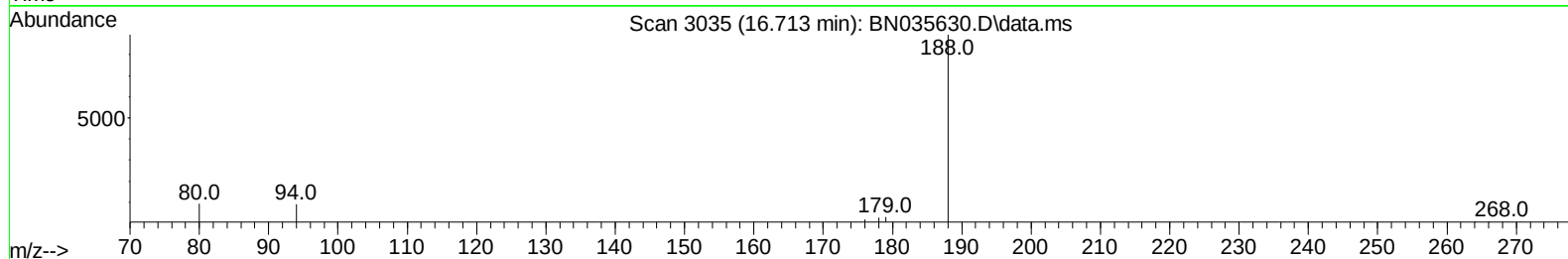
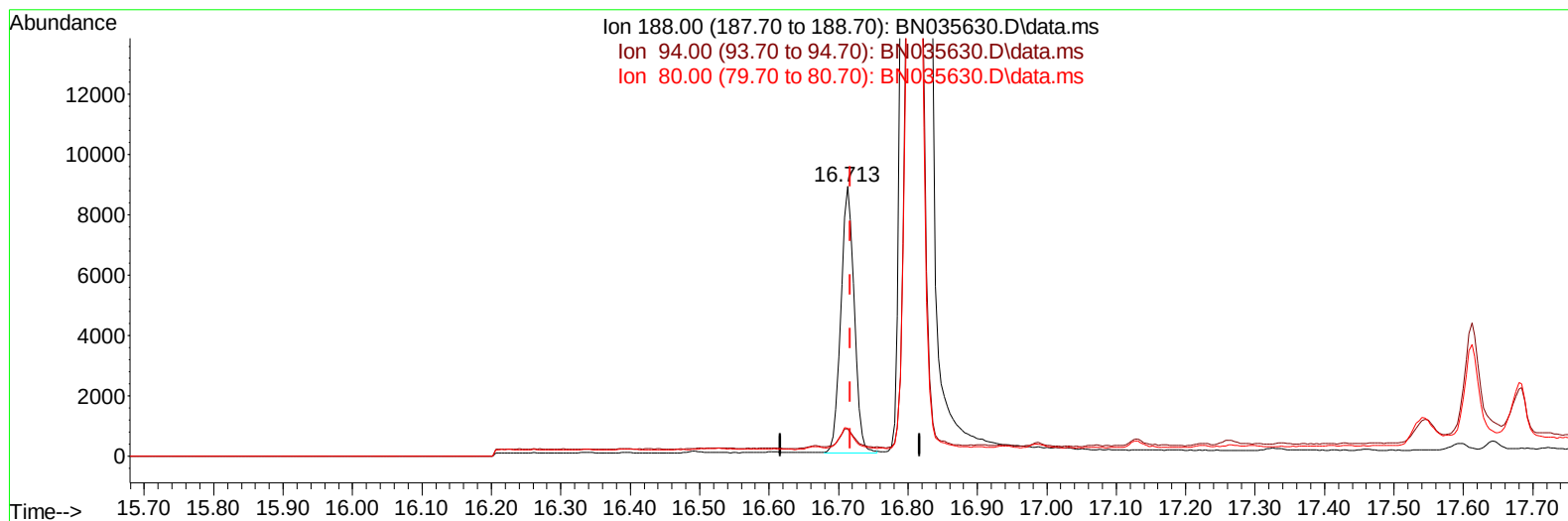
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(13) Phenanthrene-d10 (I)

16.713min (-0.004) 0.40 ng/ul m

response 11845

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	8.50	9.96
80.00	9.10	10.32
0.00	0.00	0.00

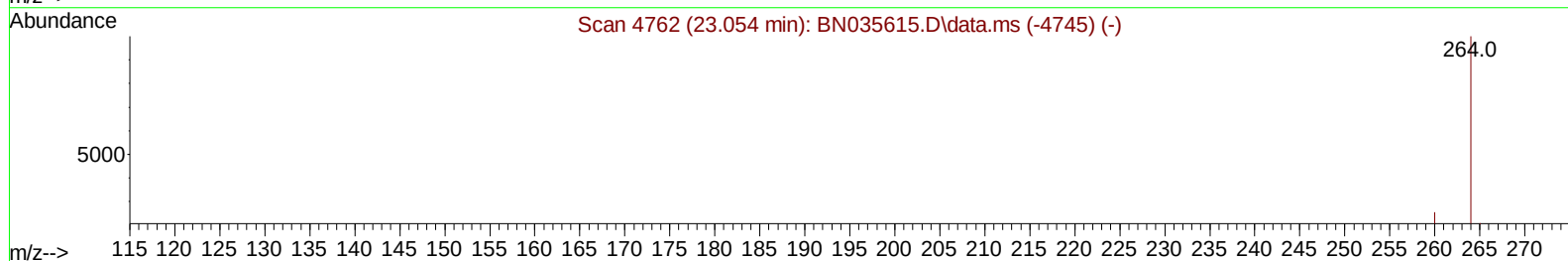
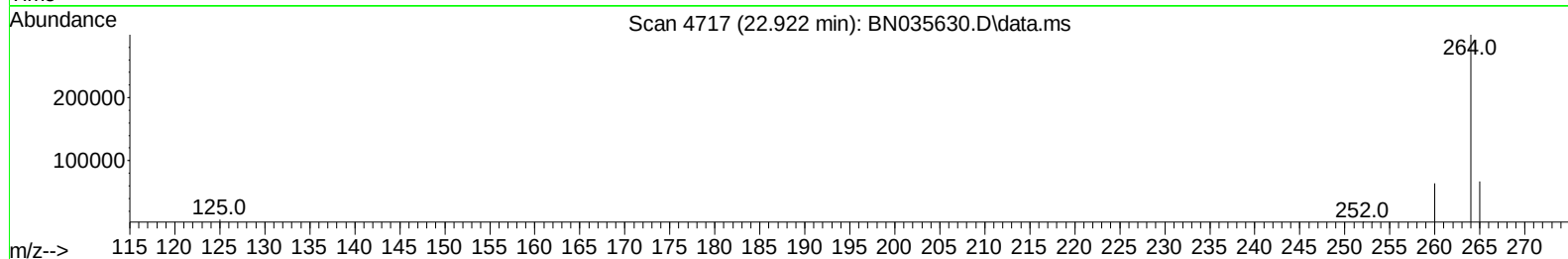
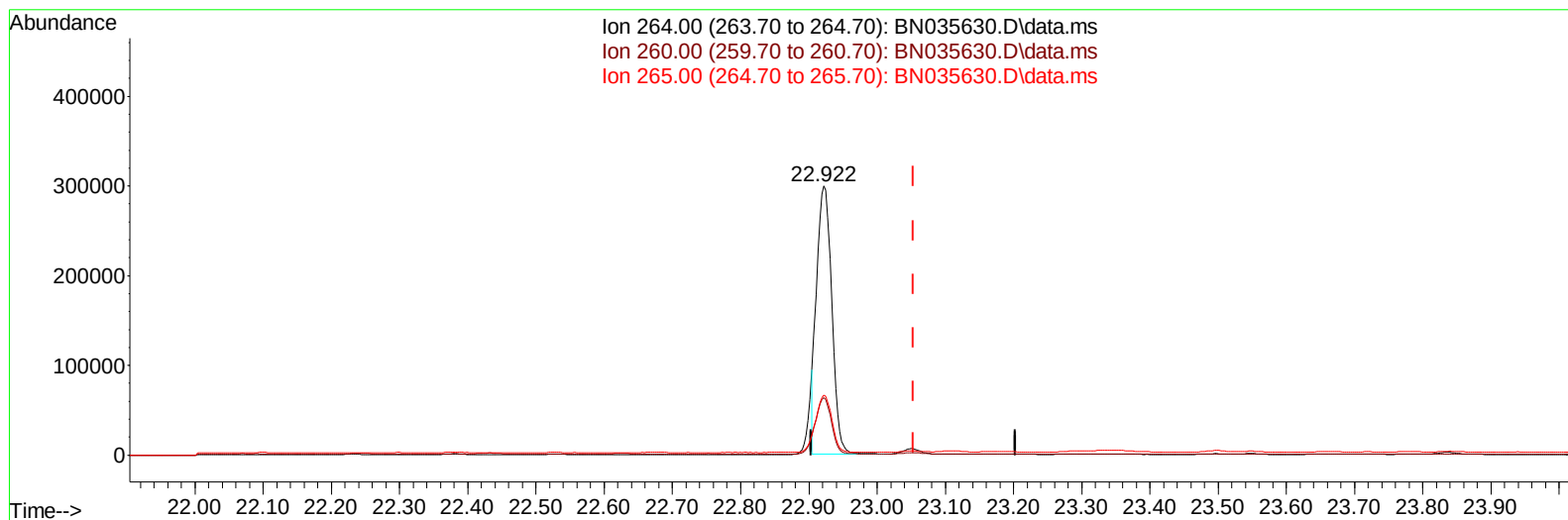
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(23) Perylene-d12 (I)

22.922min (-0.132) 0.40 ng/u1

response 460160

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	27.40	21.35#
265.00	62.10	22.21#
0.00	0.00	0.00

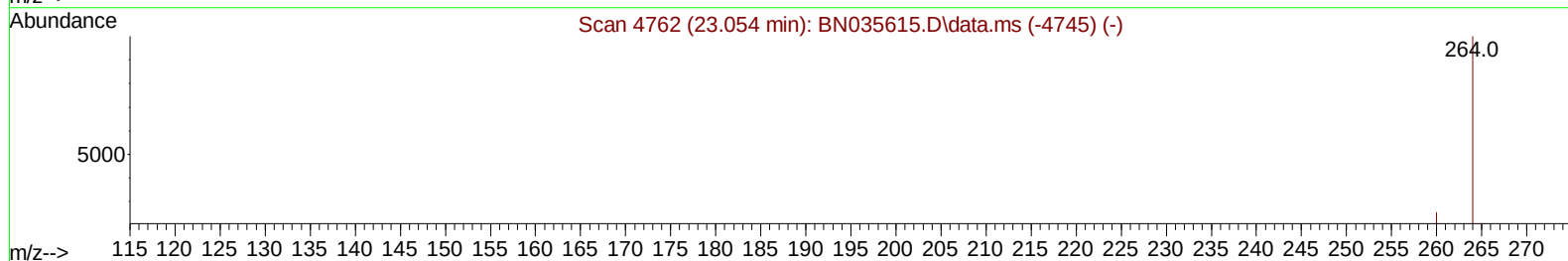
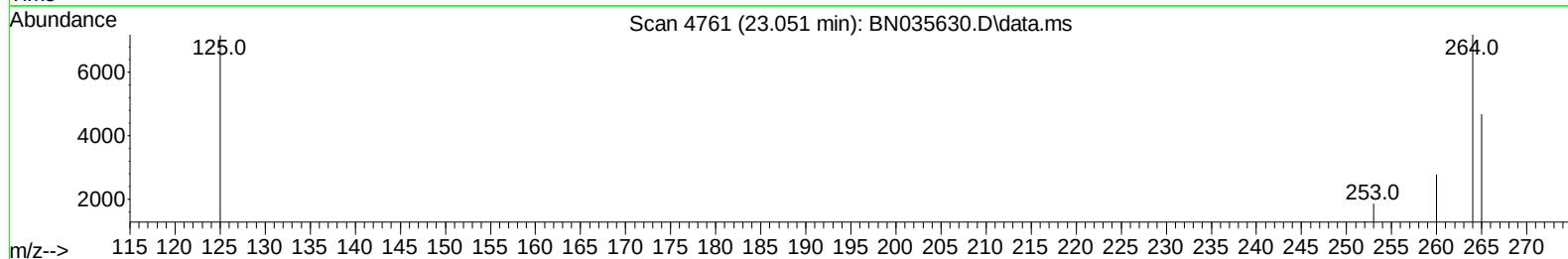
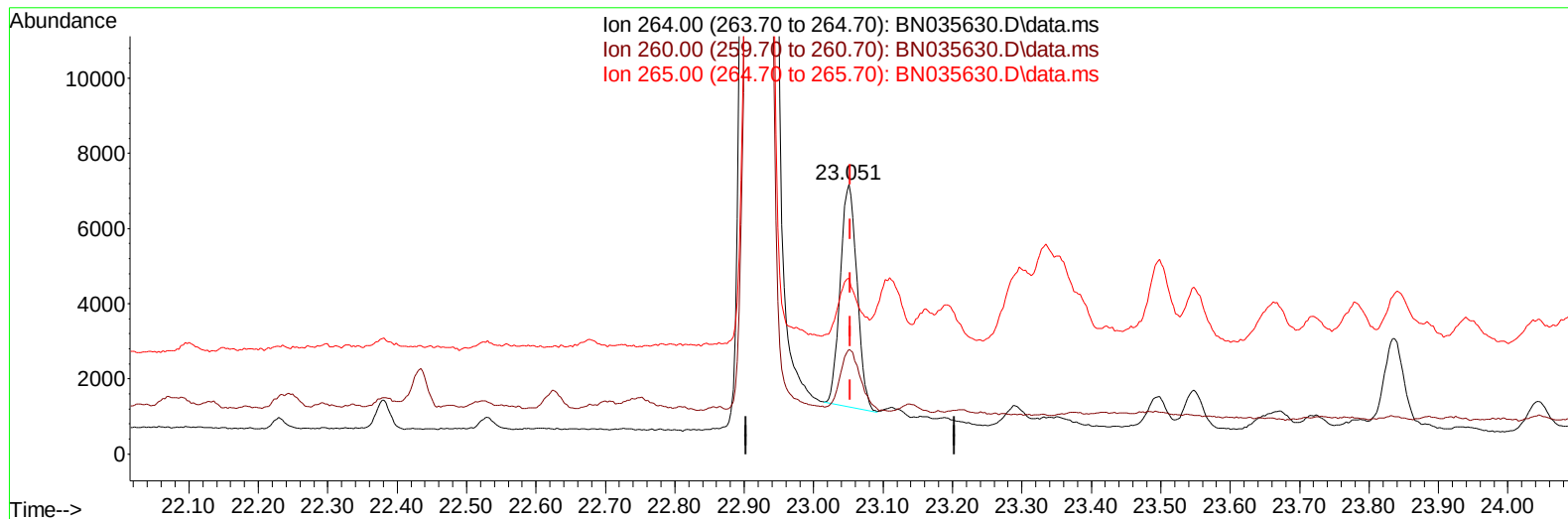
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(23) Perylene-d12 (I)

23.051min (-0.003) 0.40 ng/ul m

response 9911

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	27.40	38.86#
265.00	62.10	65.20
0.00	0.00	0.00

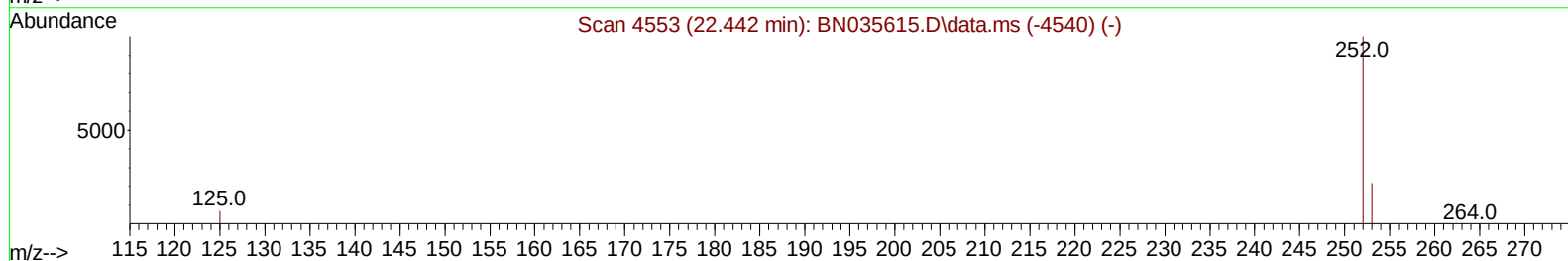
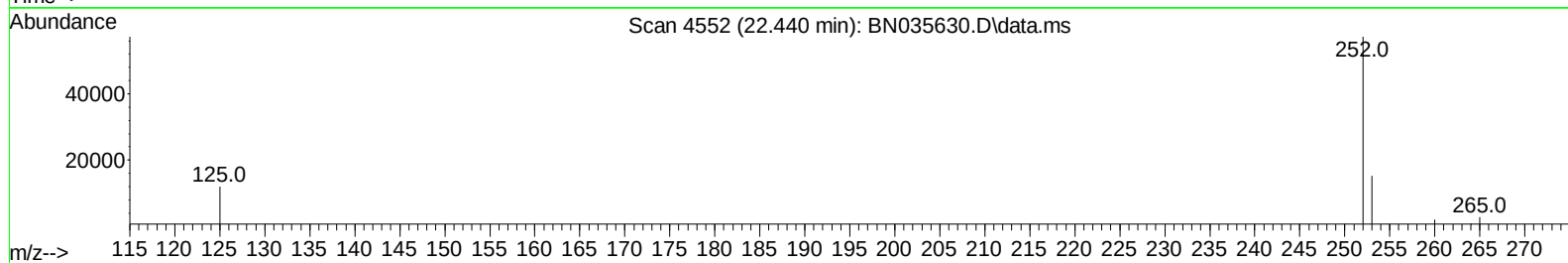
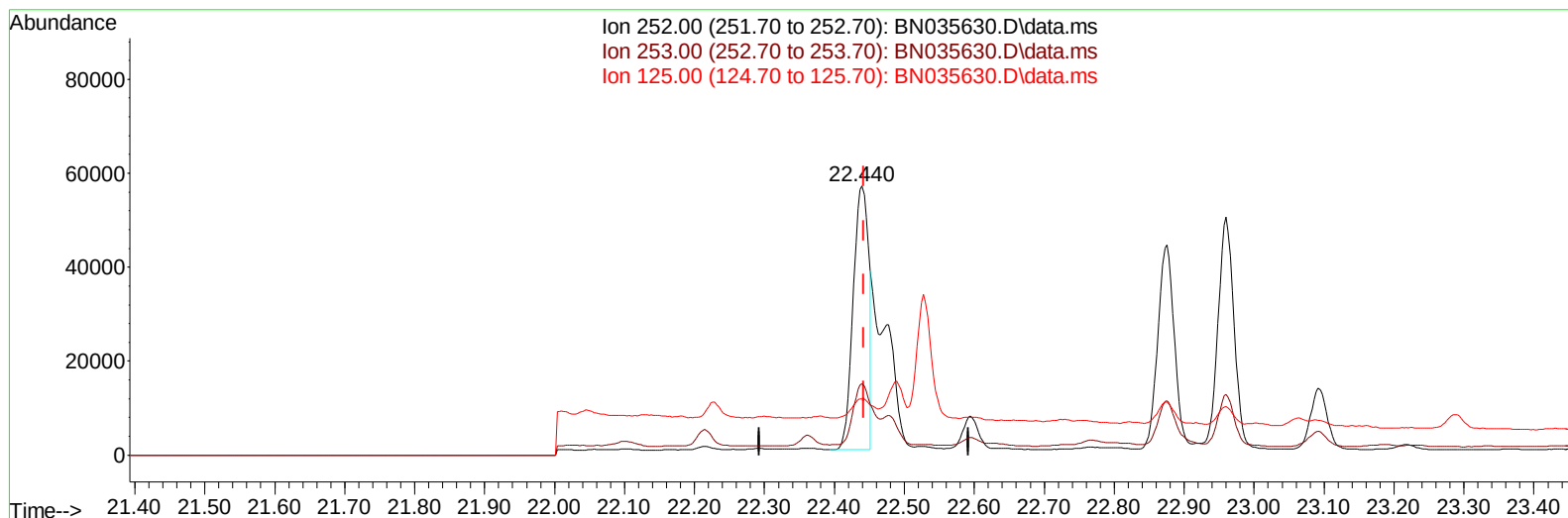
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(24) Benzo(b)fluoranthene

22.440min (-0.003) 2.97 ng/u1

response 86709

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.20	26.53
125.00	18.80	20.98
0.00	0.00	0.00

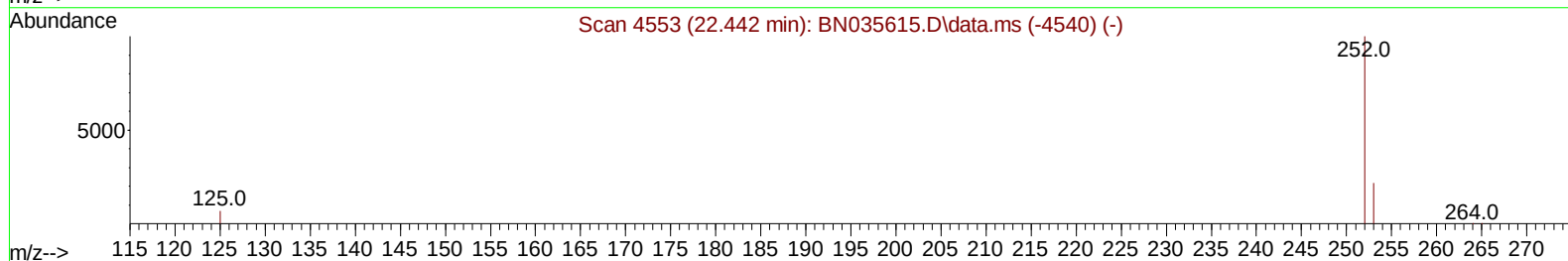
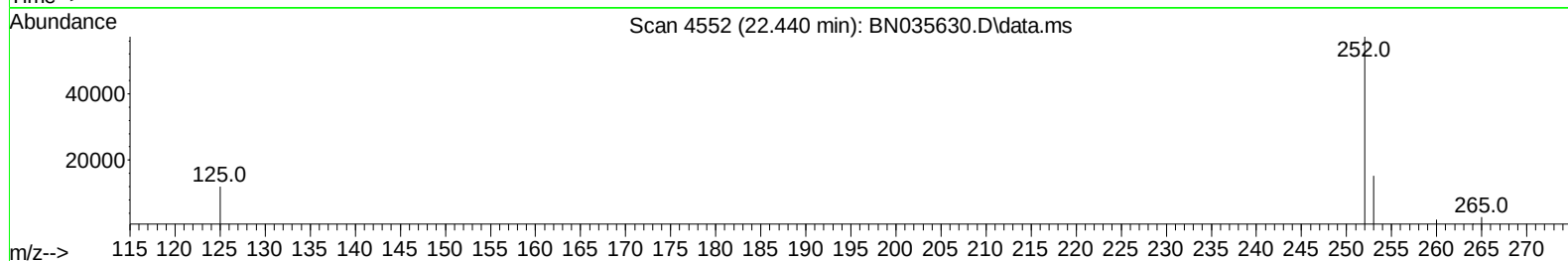
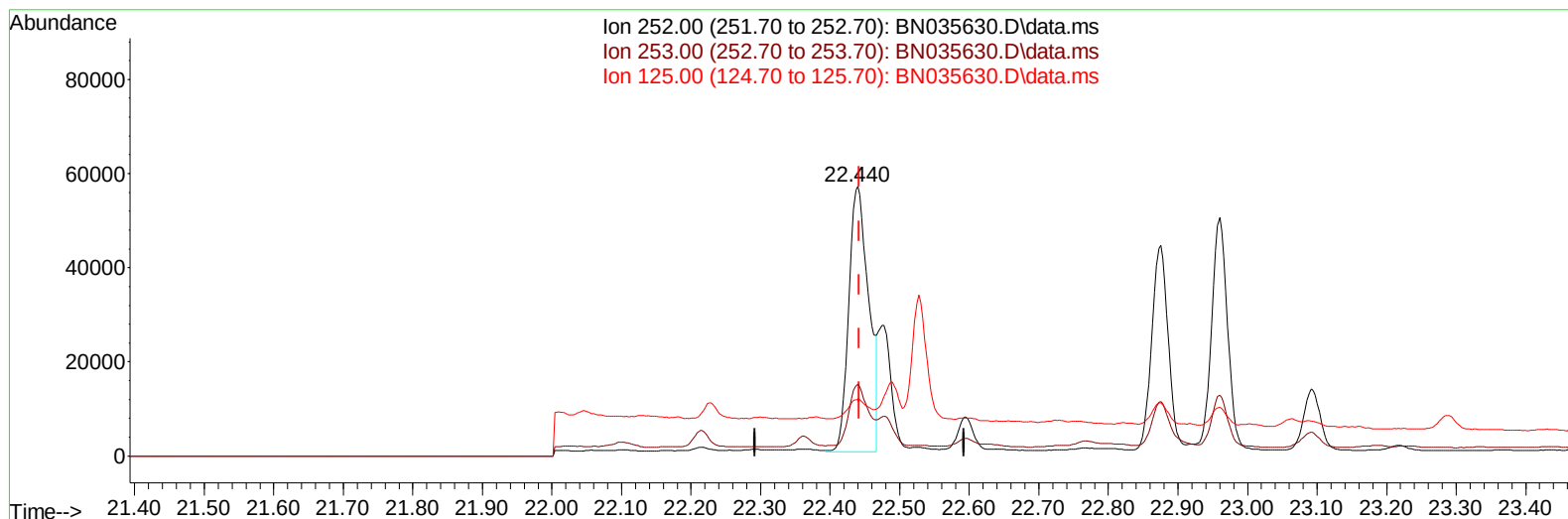
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(24) Benzo(b)fluoranthene

22.440min (-0.003) 3.83 ng/ul m

response 111809

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.20	26.53
125.00	18.80	20.98
0.00	0.00	0.00

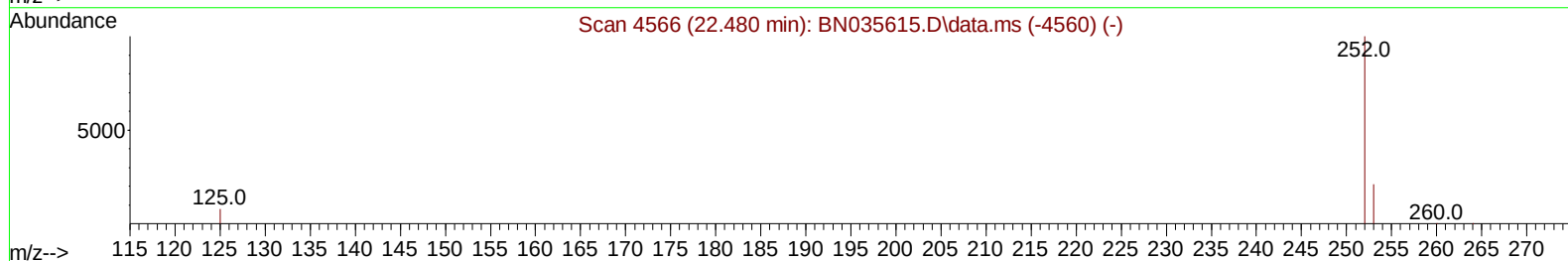
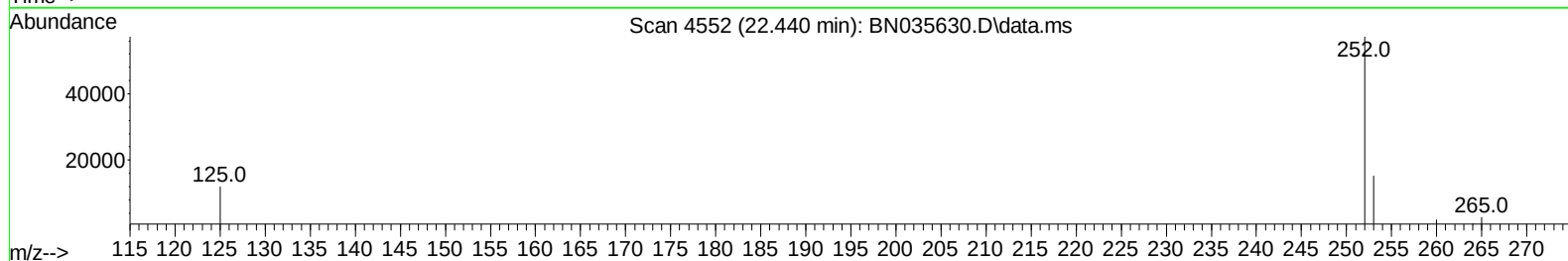
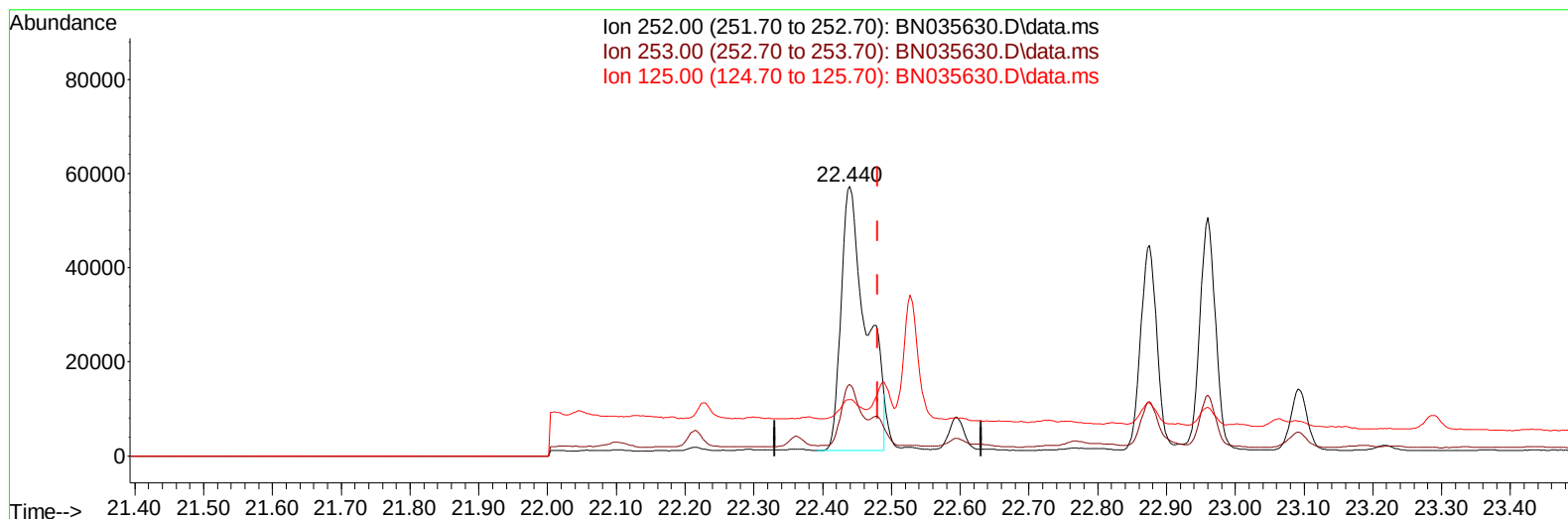
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(25) Benzo(k)fluoranthene

22.440min (-0.041) 4.41 ng/u1

response 142461

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.60	26.53
125.00	19.10	20.98
0.00	0.00	0.00

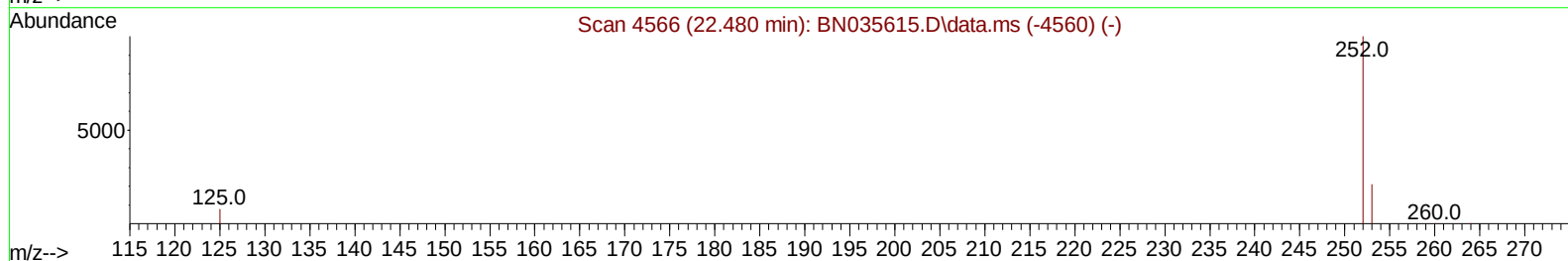
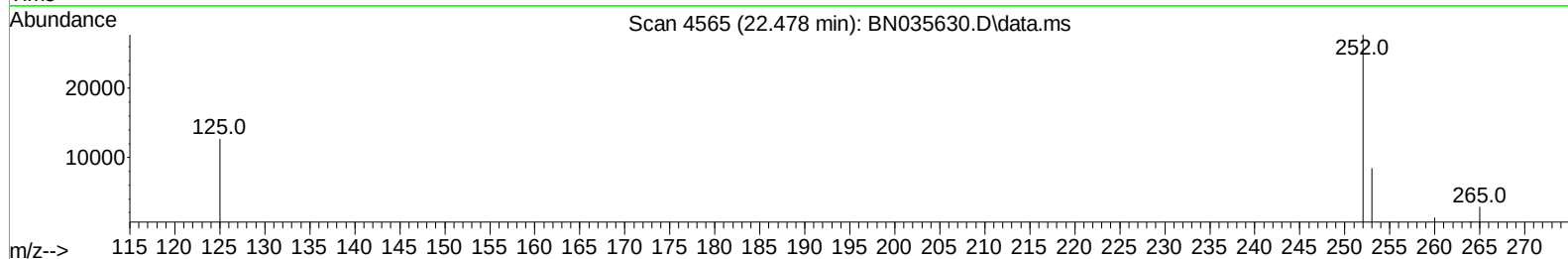
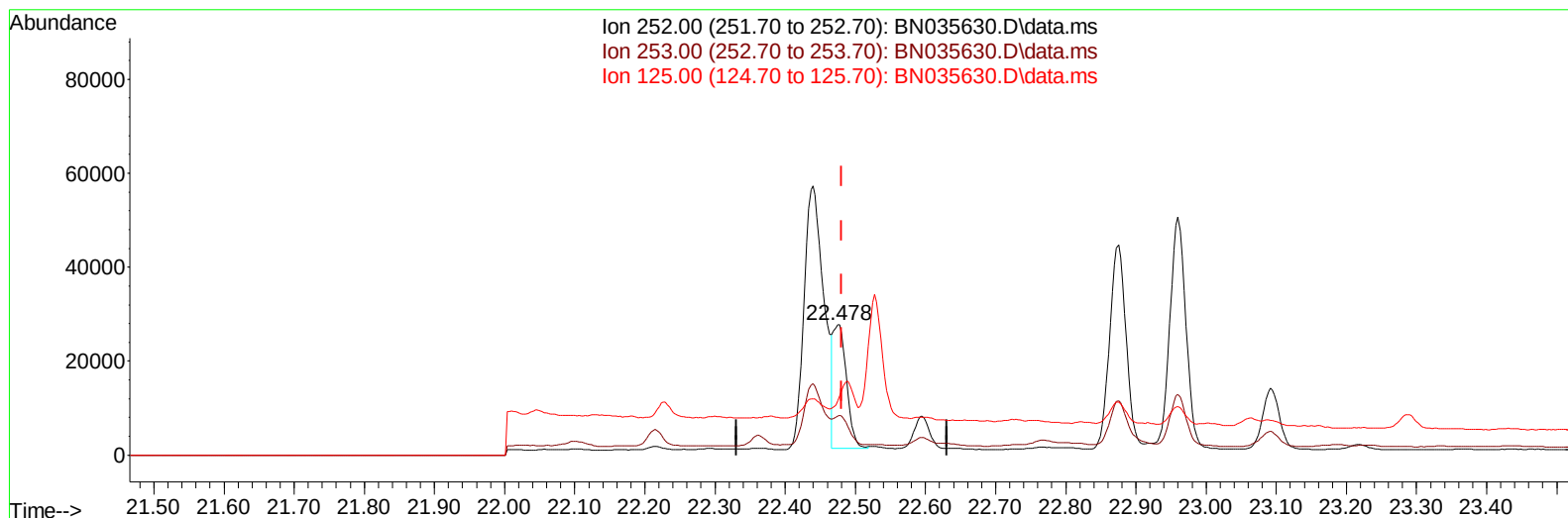
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(25) Benzo(k)fluoranthene

22.478min (-0.003) 1.07 ng/u l m

response 34460

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.60	30.55
125.00	19.10	45.58#
0.00	0.00	0.00

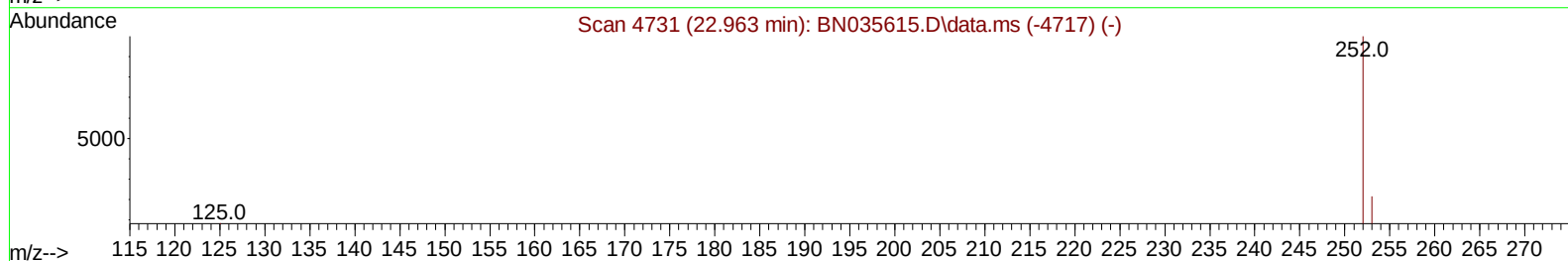
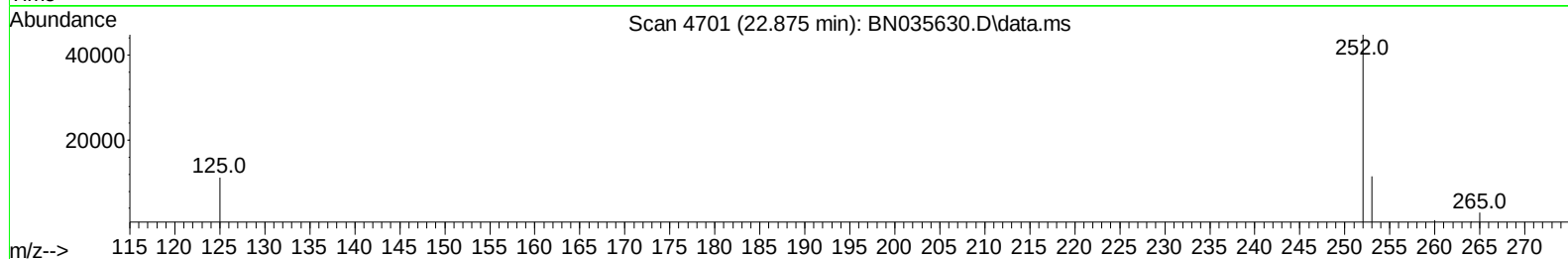
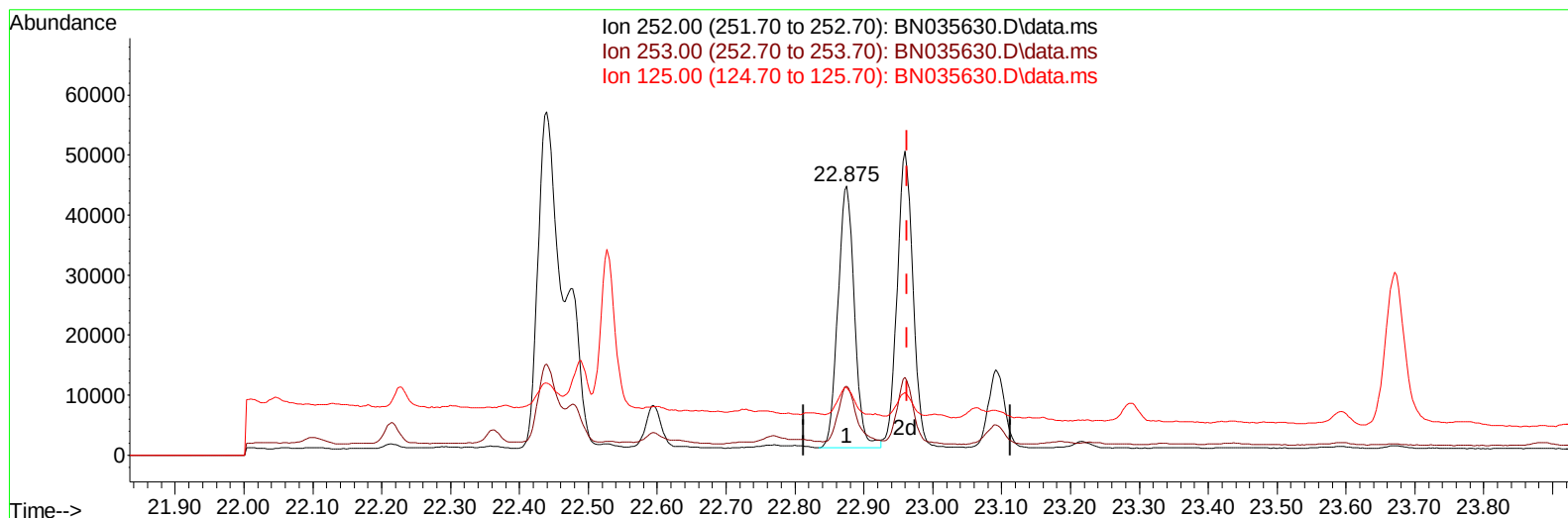
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(26) Benzo(a)pyrene (C)

22.875min (-0.088) 2.57 ng/u1

response 72810

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	30.10	25.69
125.00	23.90	25.05
0.00	0.00	0.00

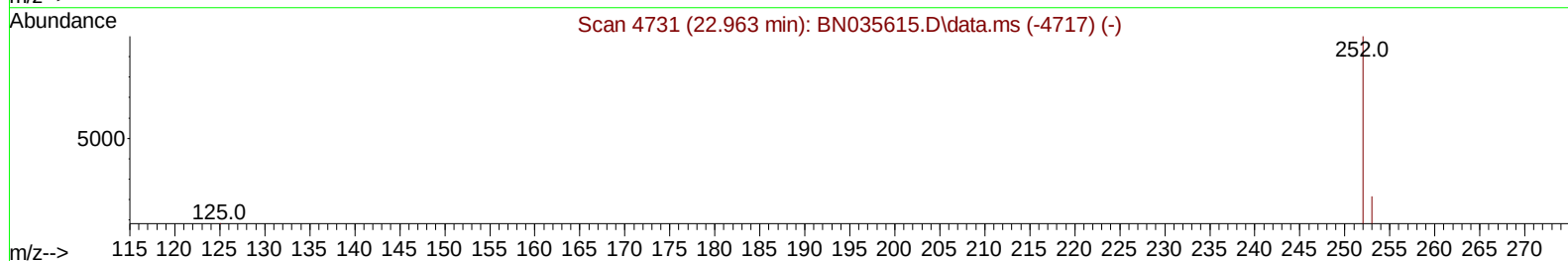
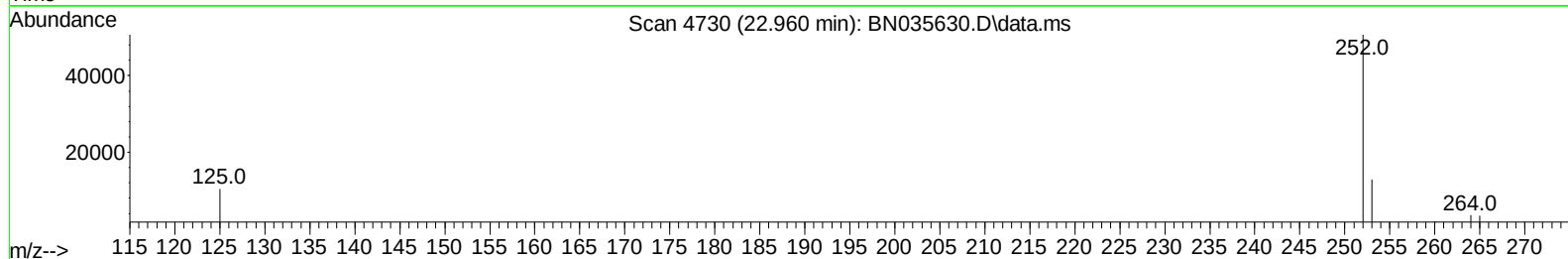
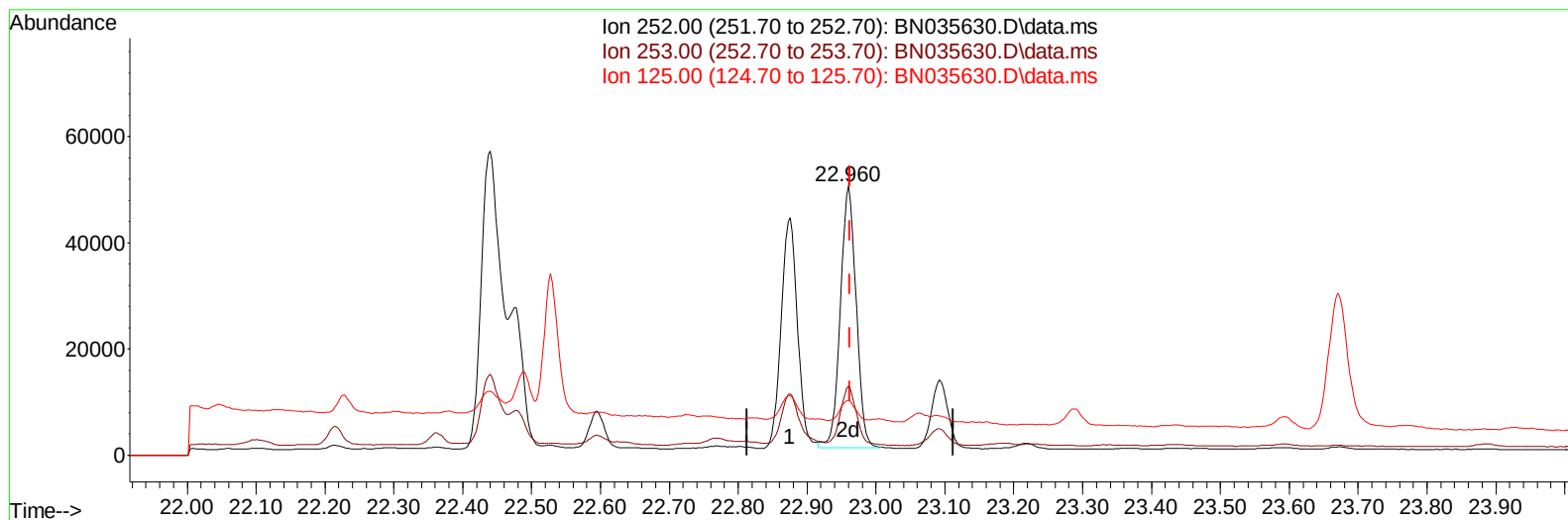
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(26) Benzo(a)pyrene (C)

22.960min (-0.003) 2.78 ng/ul m

response 78768

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	30.10	25.51
125.00	23.90	20.52
0.00	0.00	0.00

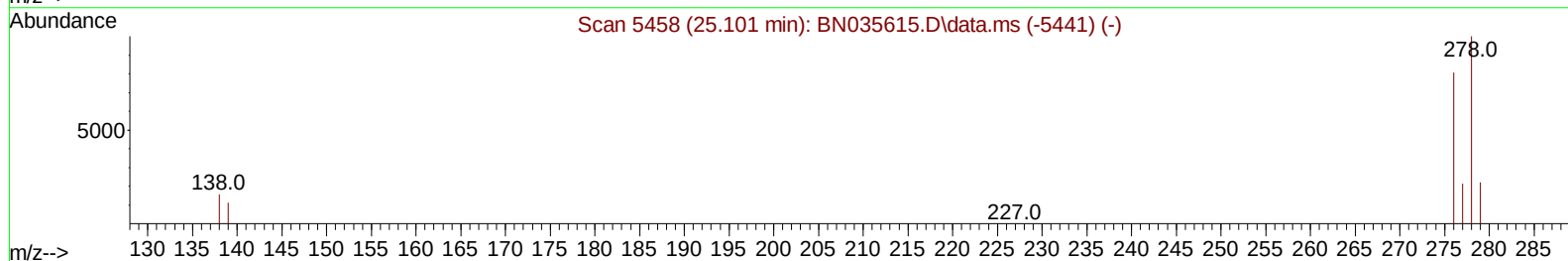
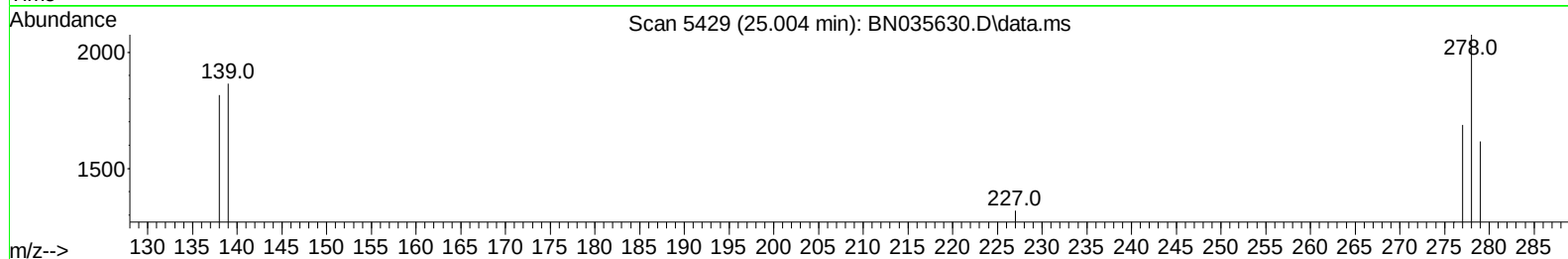
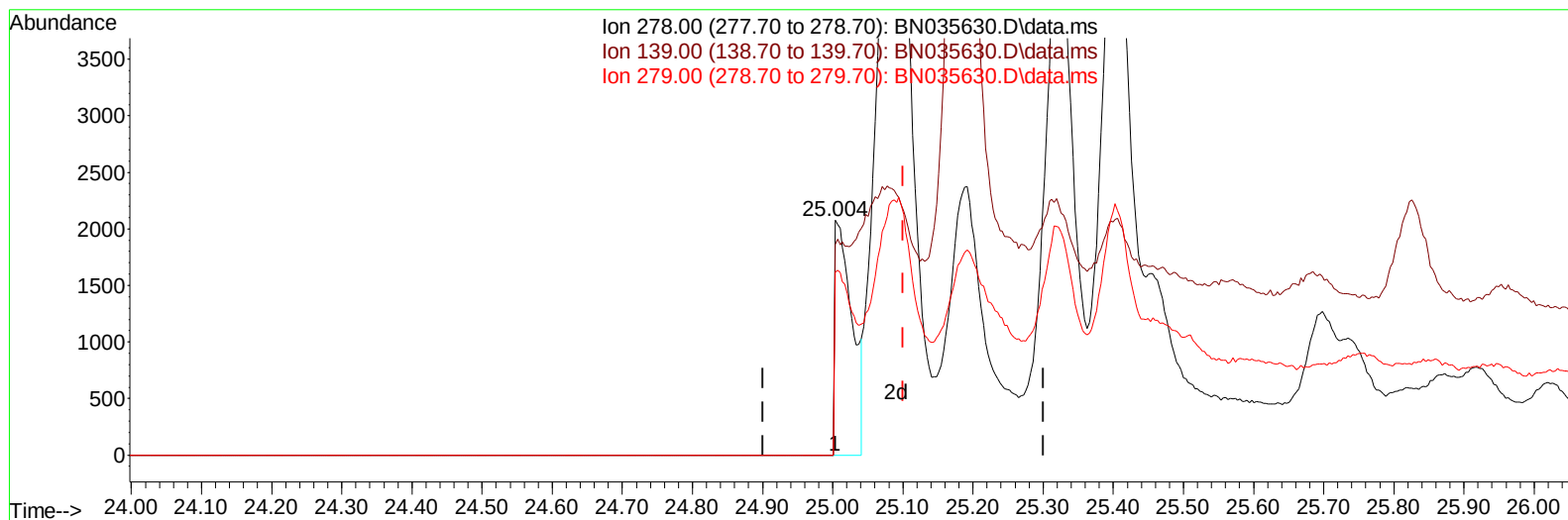
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(28) Dibenzo(a,h)anthracene

25.004min (-0.097) 0.13 ng/u1

response 3515

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	24.80	89.93#
279.00	30.00	77.98#
0.00	0.00	0.00

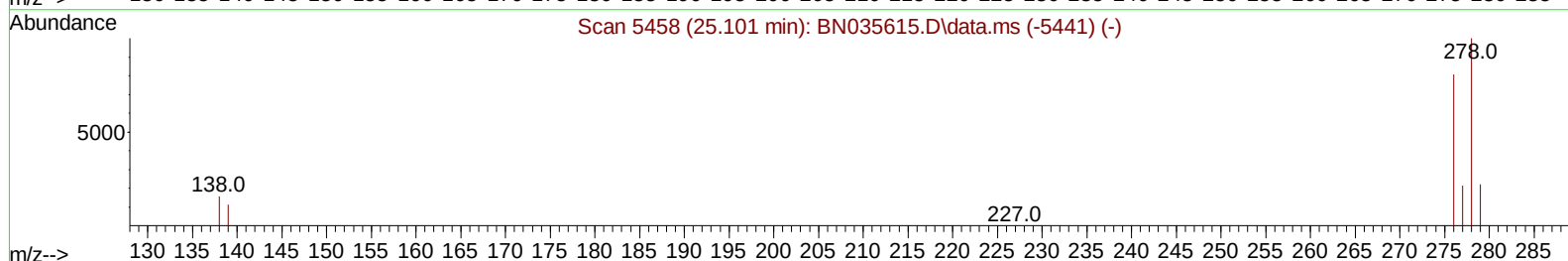
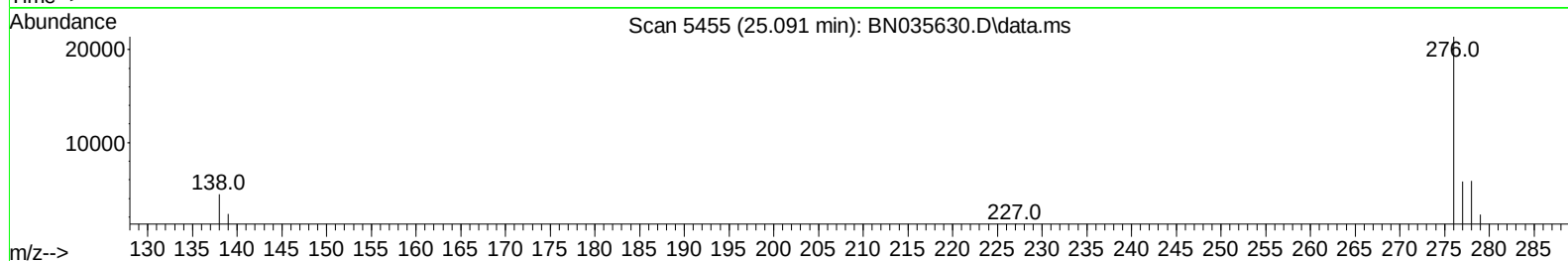
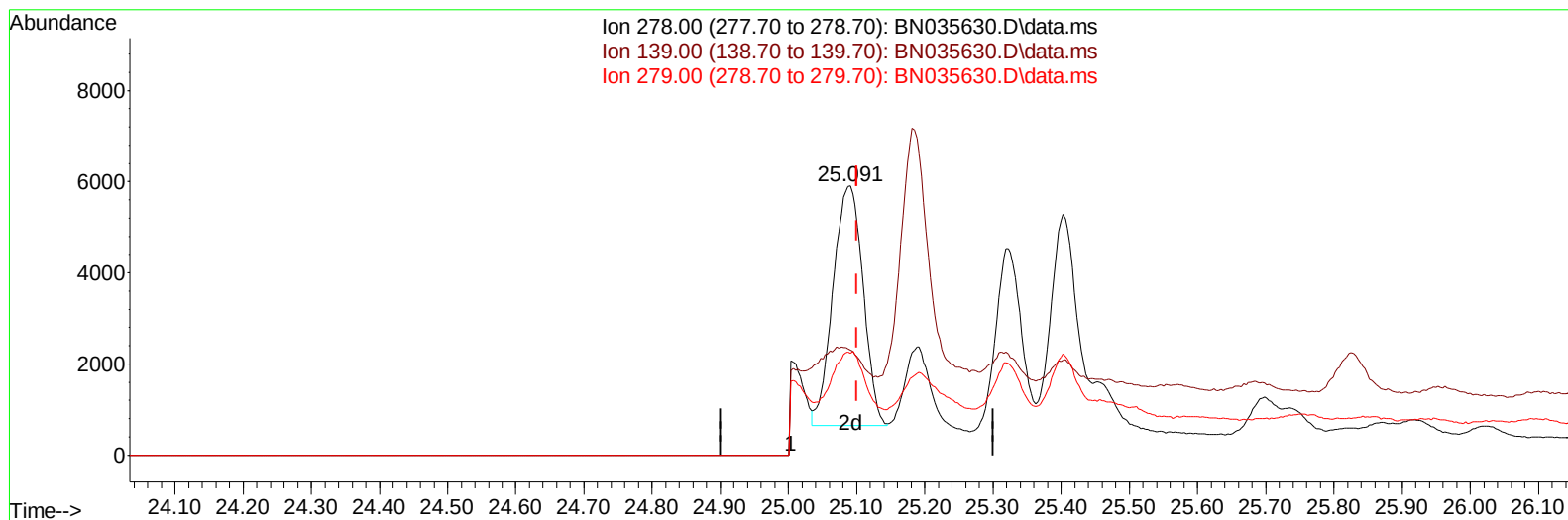
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

(28) Dibenzo(a,h)anthracene

25.091min (-0.010) 0.61 ng/ul m

response 16094

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	24.80	38.97#
279.00	30.00	37.87#
0.00	0.00	0.00

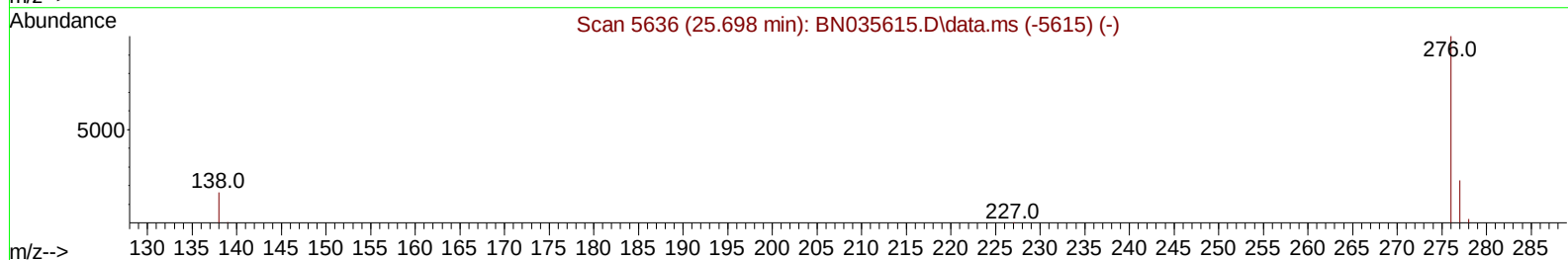
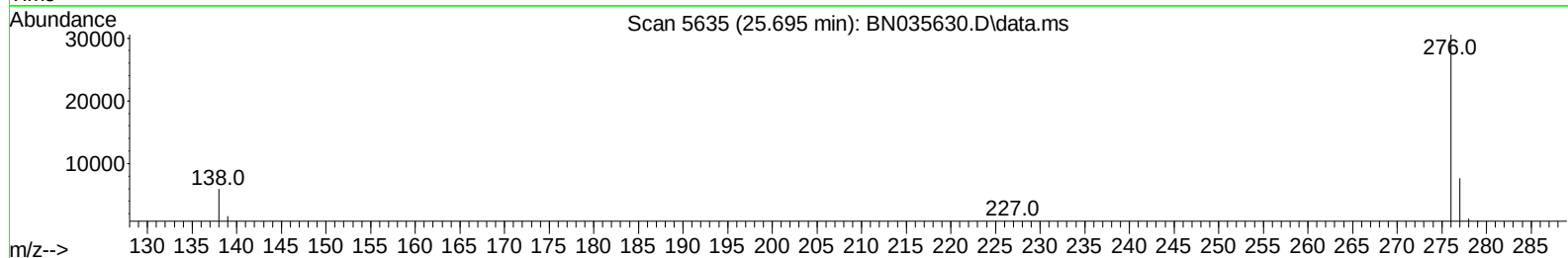
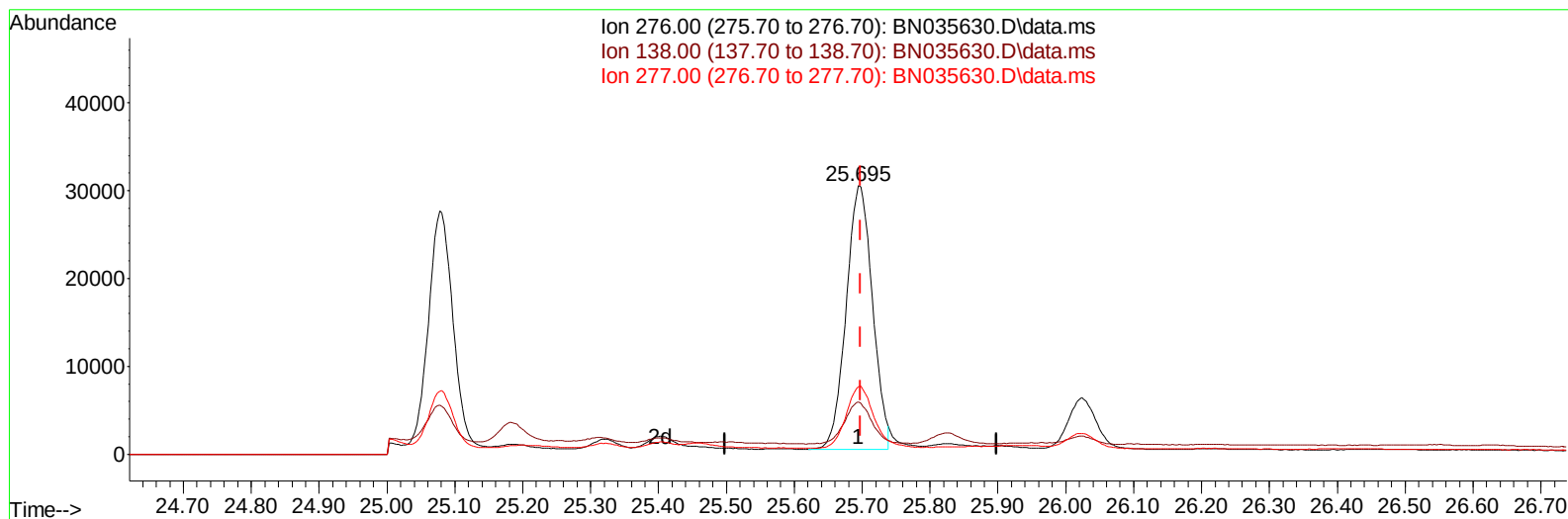
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

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

25.695min (-0.003) 2.92 ng/u1

response 80618

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	24.50	19.38#
277.00	27.00	25.24
0.00	0.00	0.00

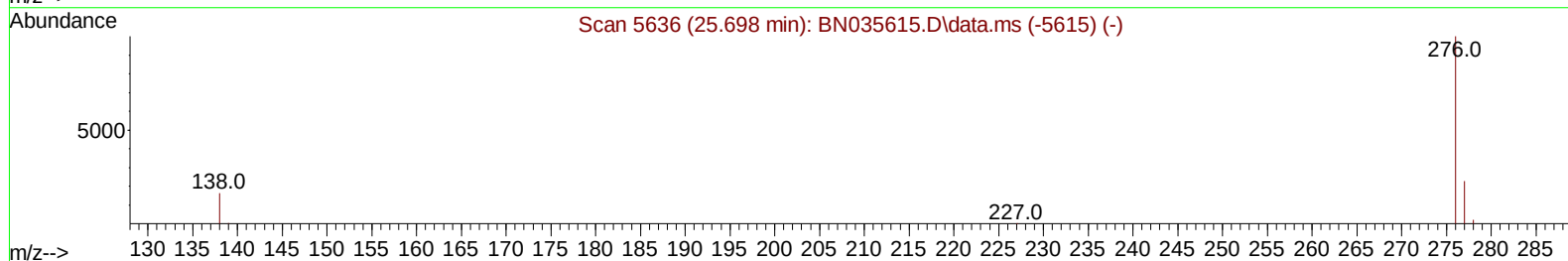
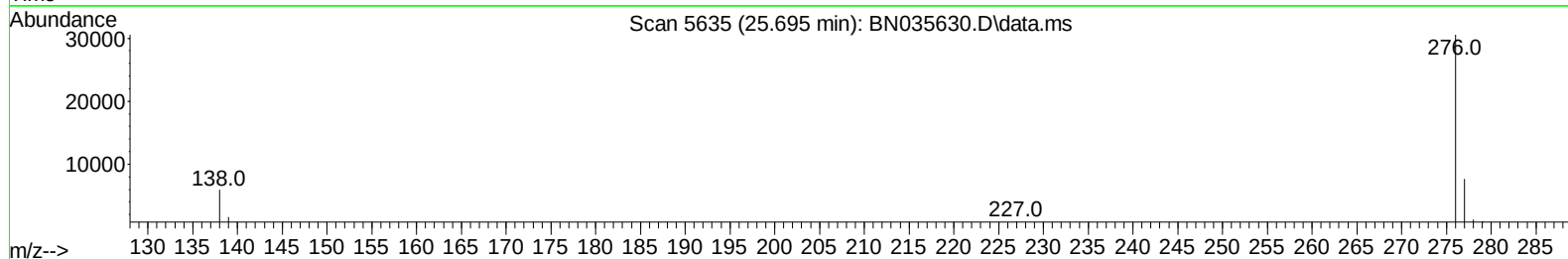
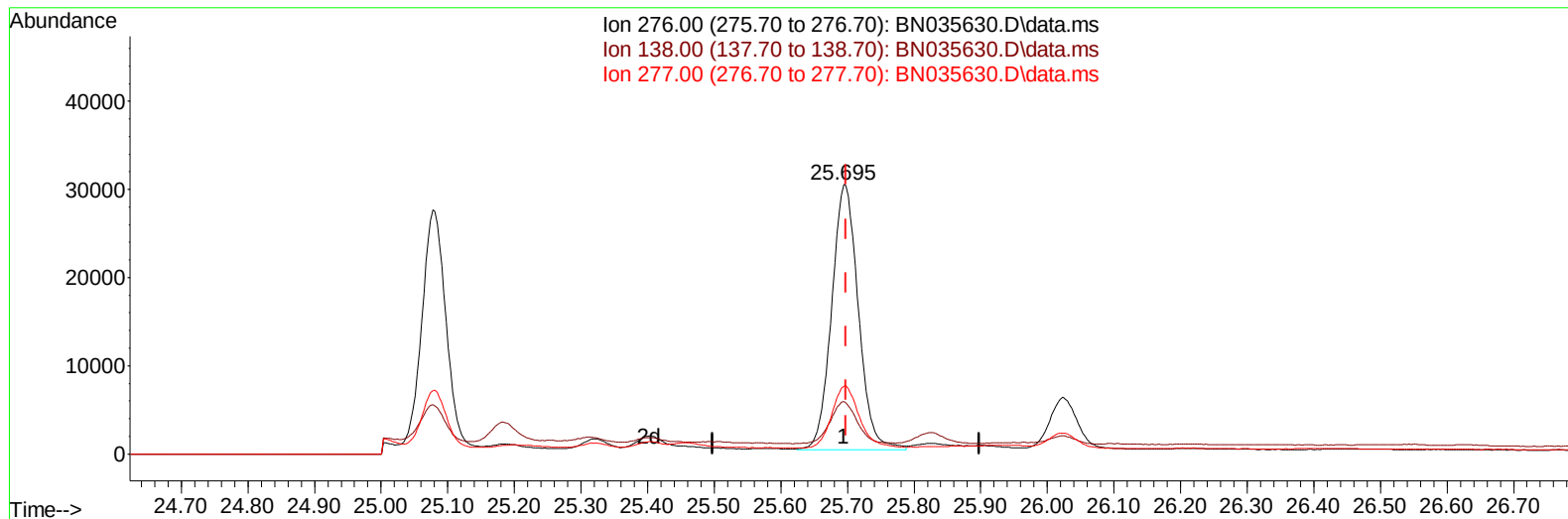
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024



TIC: BN035630.D\data.ms

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

25.695min (-0.003) 3.03 ng/ul m

response 83695

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	24.50	19.38#
277.00	27.00	25.24
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
 Data File : BN035630.D
 Acq On : 16 Dec 2024 23:36
 Operator : RC/JU
 Sample : P5232-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 E28R6

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/18/2024
 Supervised By :mohammad ahmed 12/21/2024

Quant Time: Dec 17 00:09:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 16 16:26:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.284	152	2446	0.400	ng/ul	0.00
4) Naphthalene-d8	10.025	136	7286	0.400	ng/ul	0.00
9) Acenaphthene-d10	13.944	164	5342	0.400	ng/ul	0.00
13) Phenanthrene-d10	16.713	188	11845m	0.400	ng/ul	0.00
17) Chrysene-d12	20.958	240	9757	0.400	ng/ul	# 0.00
23) Perylene-d12	23.051	264	9911m	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	2.955	96	8980	4.141	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.631	152	2912	0.281	ng/ul	0.00
18) Fluoranthene-d10	18.767	212	7570	0.265	ng/ul	0.00
Target Compounds						
						Qvalue
5) Naphthalene	10.075	128	14275	0.799	ng/ul	97
7) 2-Methylnaphthalene	11.708	142	8151	0.677	ng/ul	98
8) 1-Methylnaphthalene	11.934	142	3467	0.278	ng/ul	100
10) Acenaphthylene	13.657	152	3942	0.190	ng/ul#	93
11) Acenaphthene	14.009	153	1072	0.069	ng/ul	95
12) Fluorene	15.008	166	1489	0.082	ng/ul#	91
14) Pentachlorophenol	16.379	266	120	0.040	ng/ul	95
15) Phenanthrene	16.755	178	36281	1.224	ng/ul	99
16) Anthracene	16.844	178	9623	0.347	ng/ul#	94
19) Fluoranthene	18.795	202	66635	1.910	ng/ul	98
20) Pyrene	19.163	202	67461	1.755	ng/ul	99
21) Benzo(a)anthracene	20.944	228	48139	1.487	ng/ul#	93
22) Chrysene	20.993	228	68015	2.026	ng/ul#	95
24) Benzo(b)fluoranthene	22.440	252	111809m	3.828	ng/ul	
25) Benzo(k)fluoranthene	22.478	252	34460m	1.067	ng/ul	
26) Benzo(a)pyrene	22.960	252	78768m	2.785	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.077	276	66649	1.935	ng/ul#	68
28) Dibenzo(a,h)anthracene	25.091	278	16094m	0.612	ng/ul	
29) Benzo(g,h,i)perylene	25.695	276	83695m	3.029	ng/ul	

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121624\
Data File : BN035630.D
Acq On : 16 Dec 2024 23:36
Operator : RC/JU
Sample : P5232-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28R6

Manual IntegrationsAPPROVED

Quant Time: Dec 17 00:09:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:26:08 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/18/2024
Supervised By :mohammad ahmed 12/21/2024

