

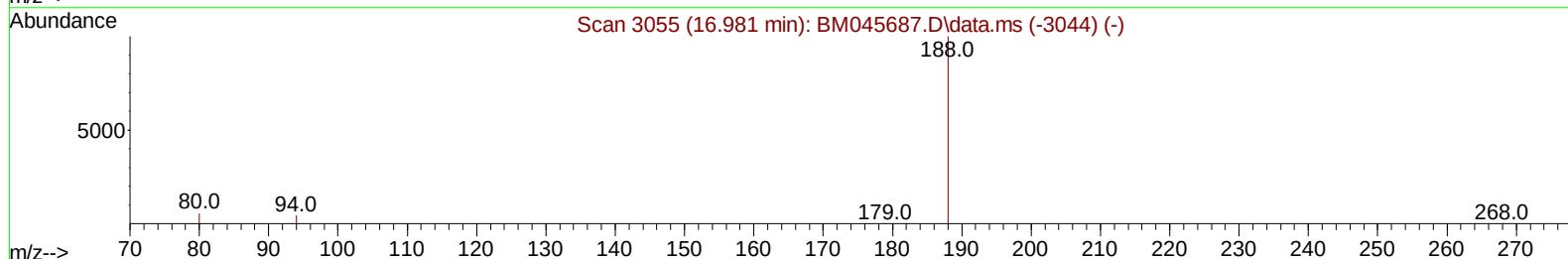
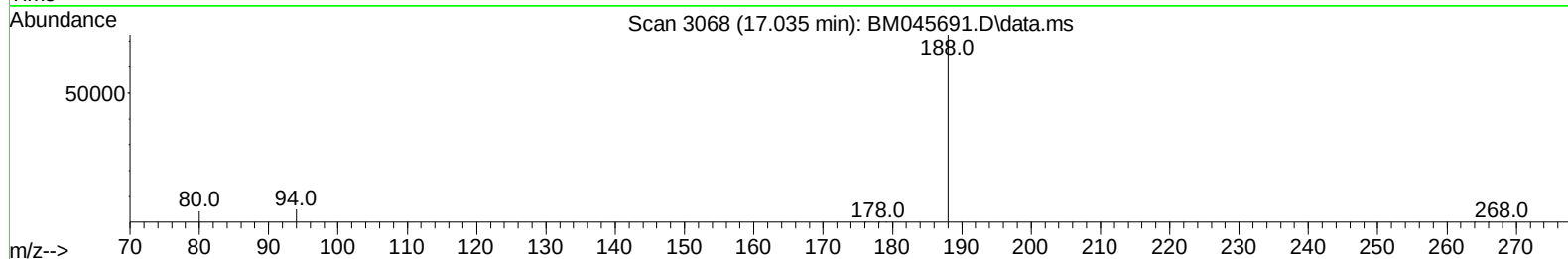
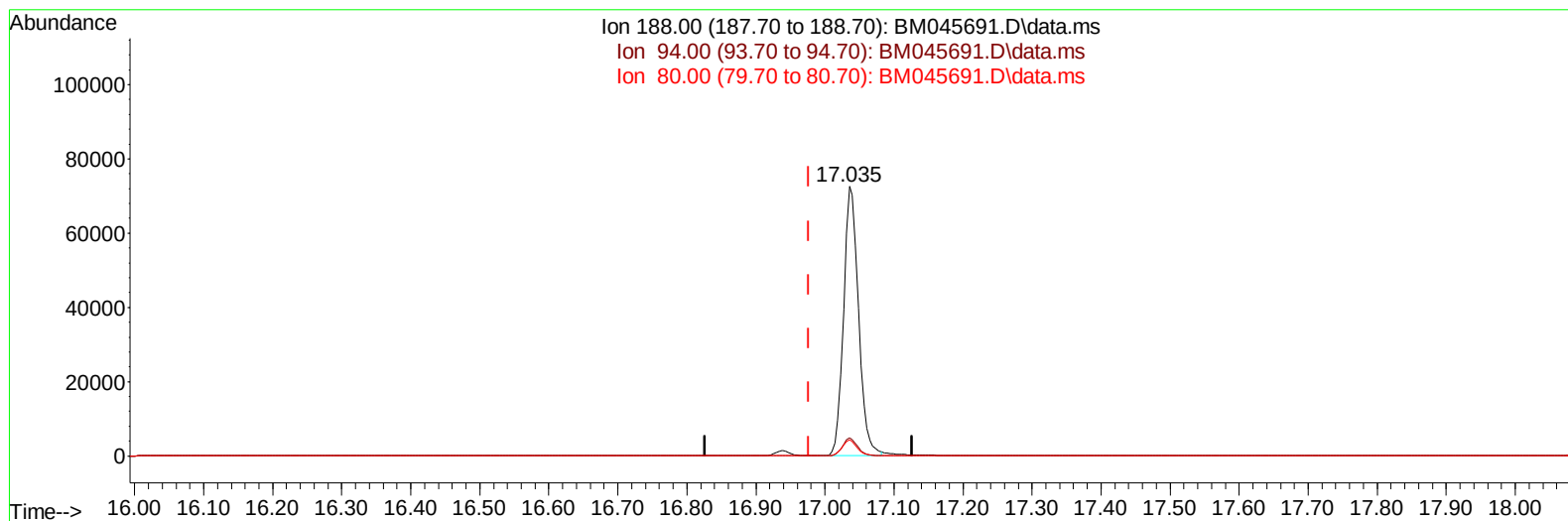
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(13) Phenanthrene-d10 (I)

17.035min (+ 0.059) 0.40 ng/u1

response 109126

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	16.10	6.69#
80.00	15.50	5.98#
0.00	0.00	0.00

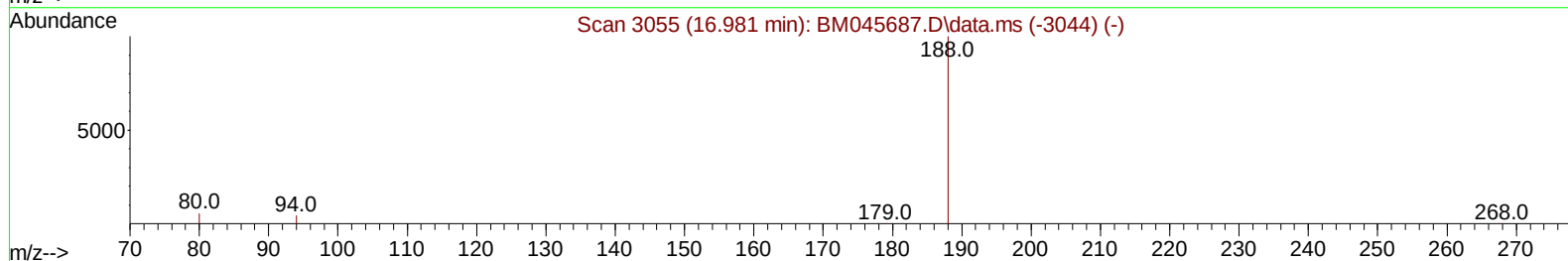
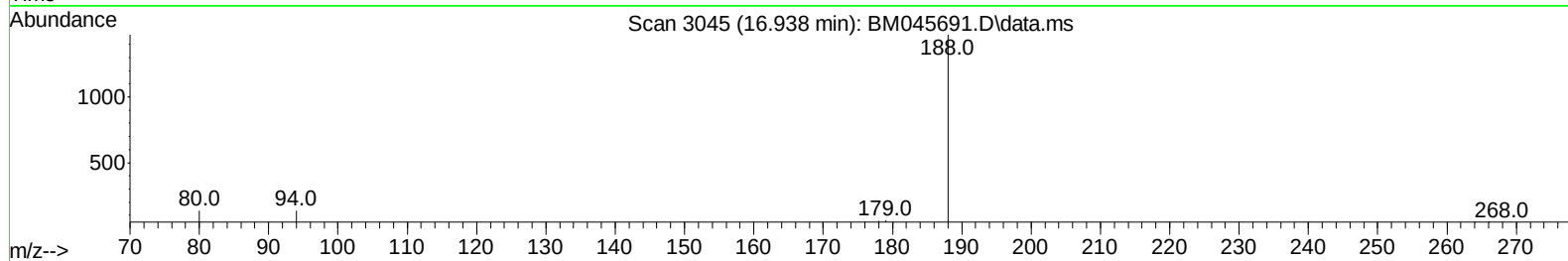
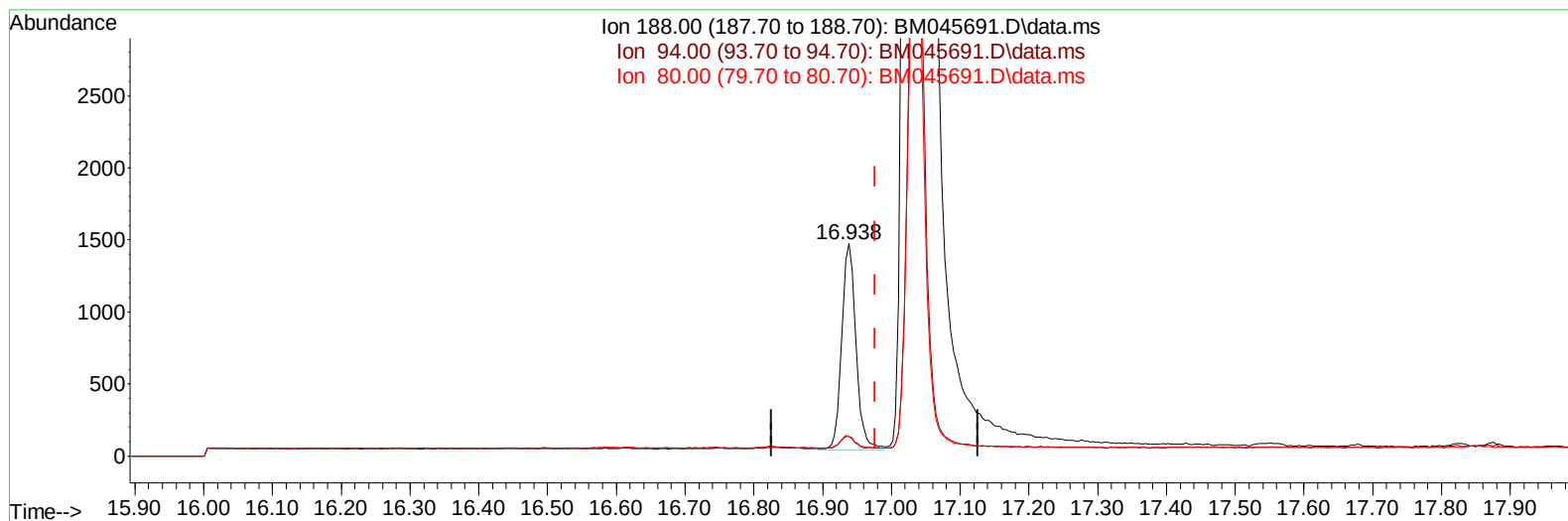
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(13) Phenanthrene-d10 (I)

16.938min (-0.038) 0.40 ng/ul m

response 2045

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	16.10	9.23#
80.00	15.50	9.29#
0.00	0.00	0.00

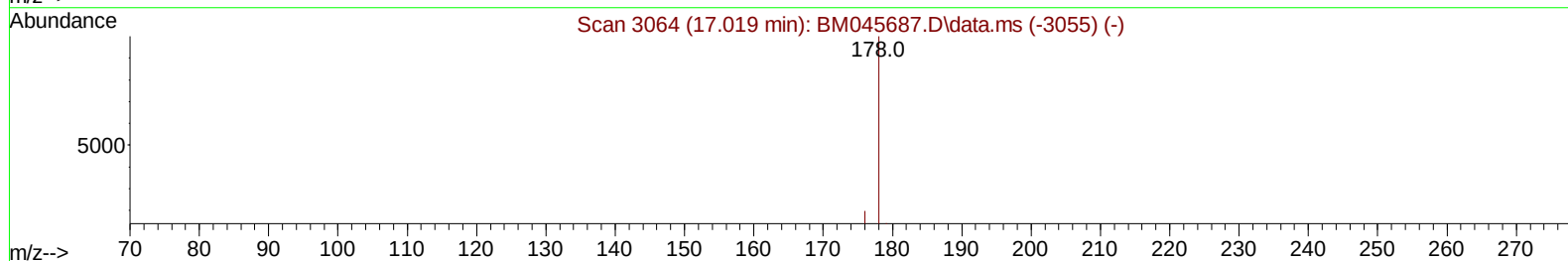
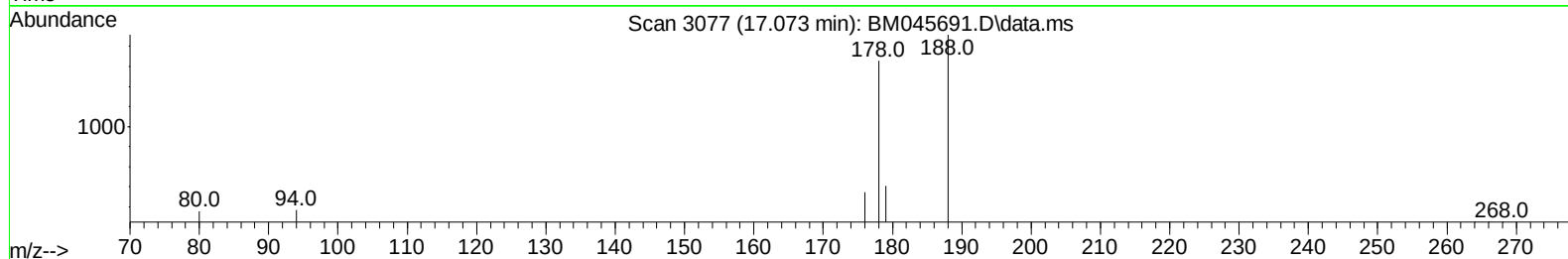
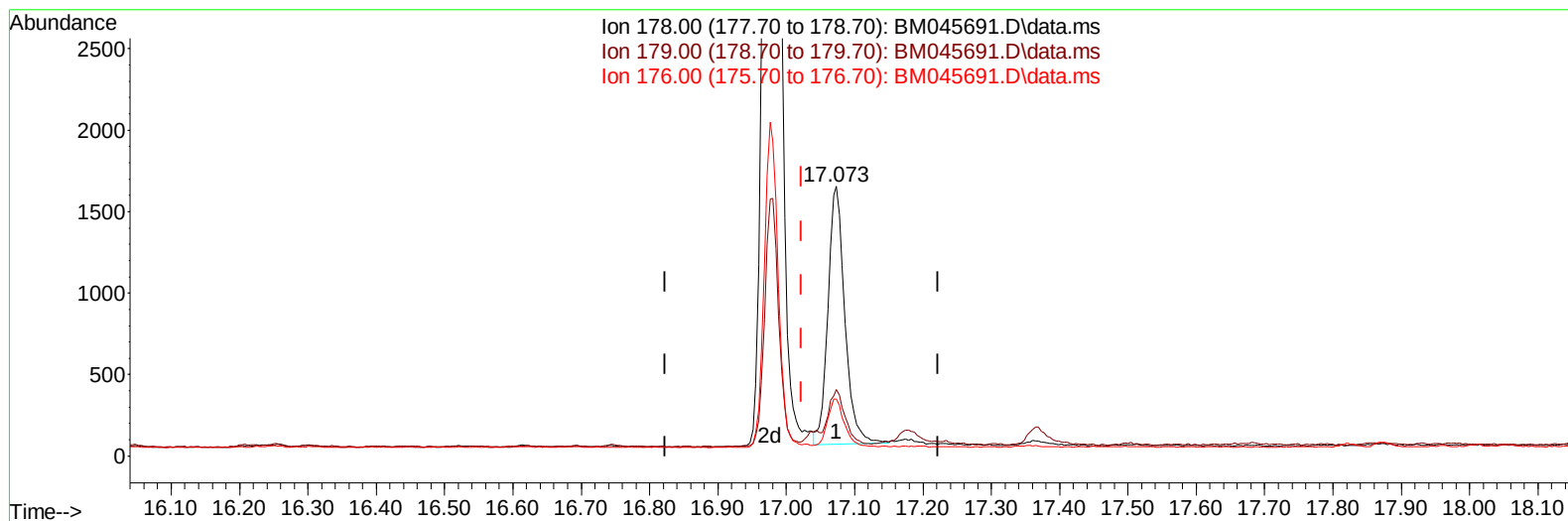
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(15) Phenanthrene

17.073min (+ 0.051) 0.53 ng/u1

response 2704

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	22.90	24.67
176.00	27.20	21.04#
0.00	0.00	0.00

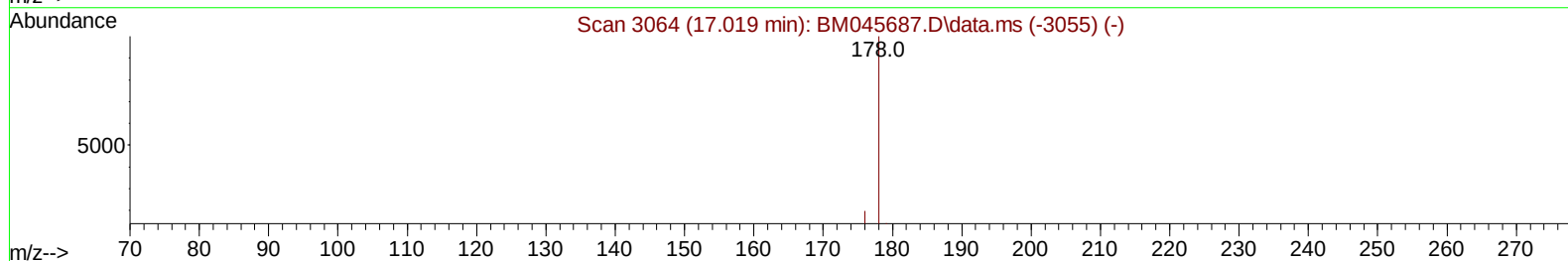
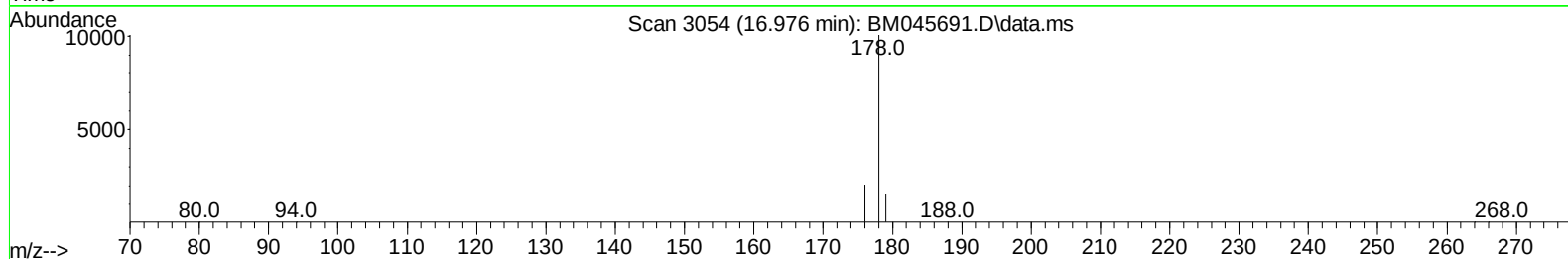
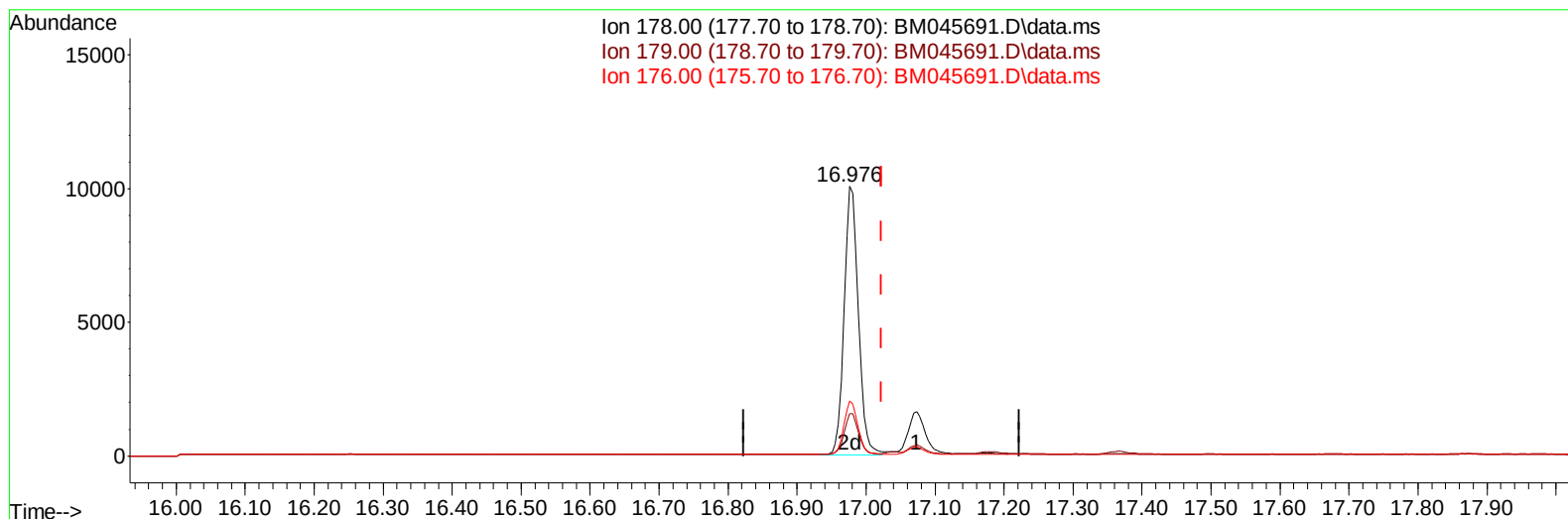
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
 Data File : BM045691.D
 Acq On : 03 May 2024 12:12
 Operator : MA/JU
 Sample : P2238-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 03 03:27:04 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(15) Phenanthrene

16.976min (-0.046) 2.84 ng/ul m

response 14412

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	22.90	15.66#
176.00	27.20	20.31#
0.00	0.00	0.00

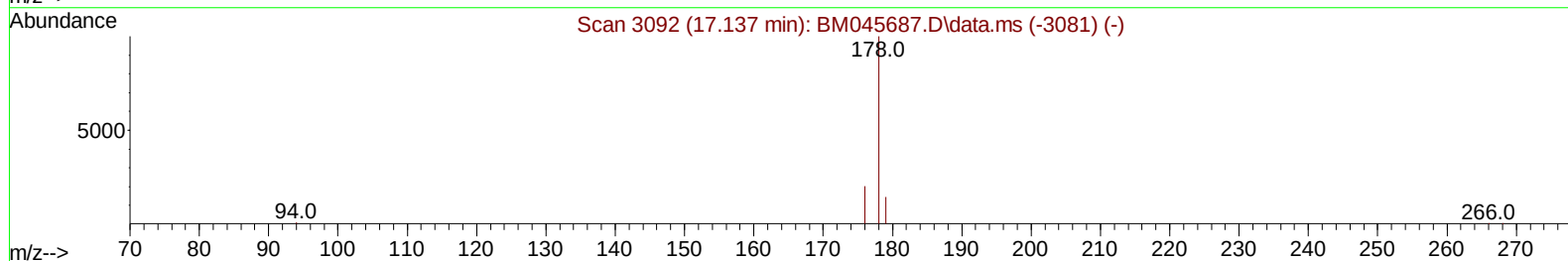
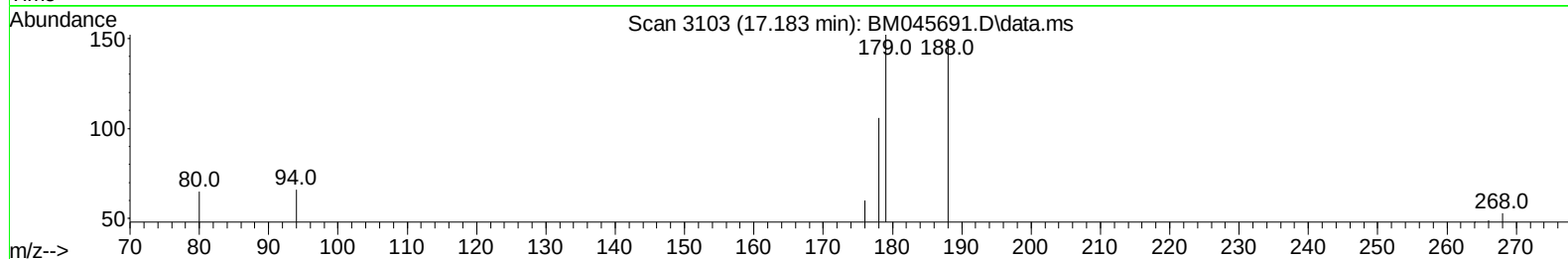
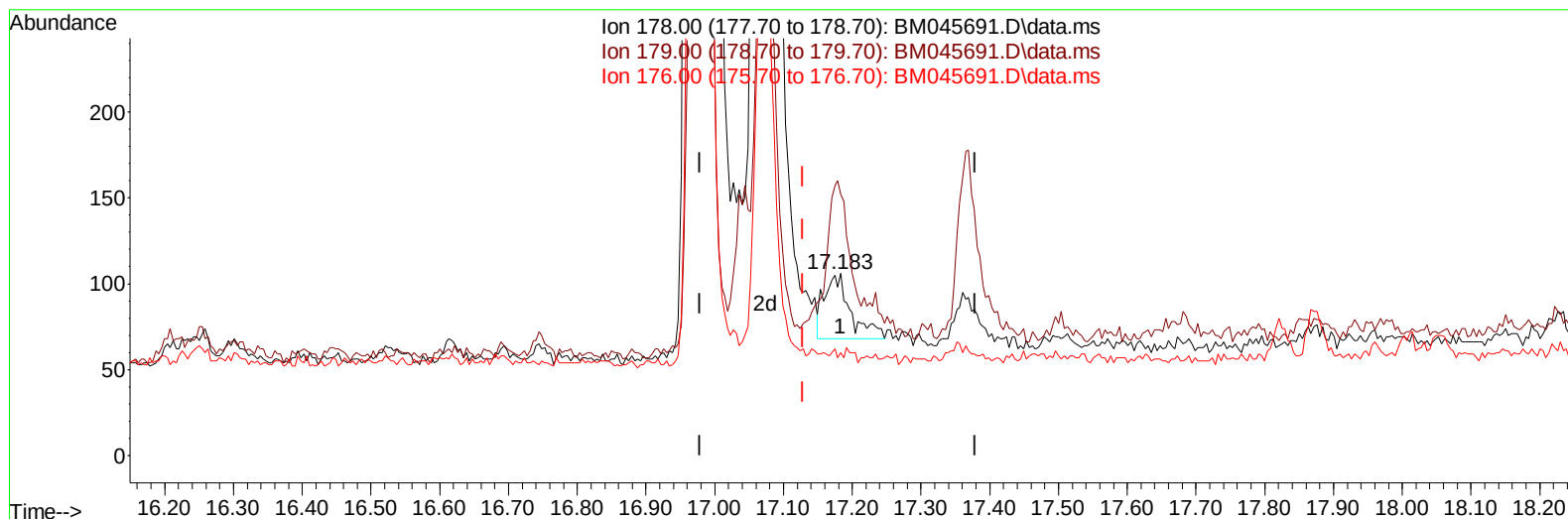
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(16) Anthracene

17.183min (+ 0.055) 0.02 ng/u1

response 100

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	26.10	143.40#
176.00	28.60	56.60#
0.00	0.00	0.00

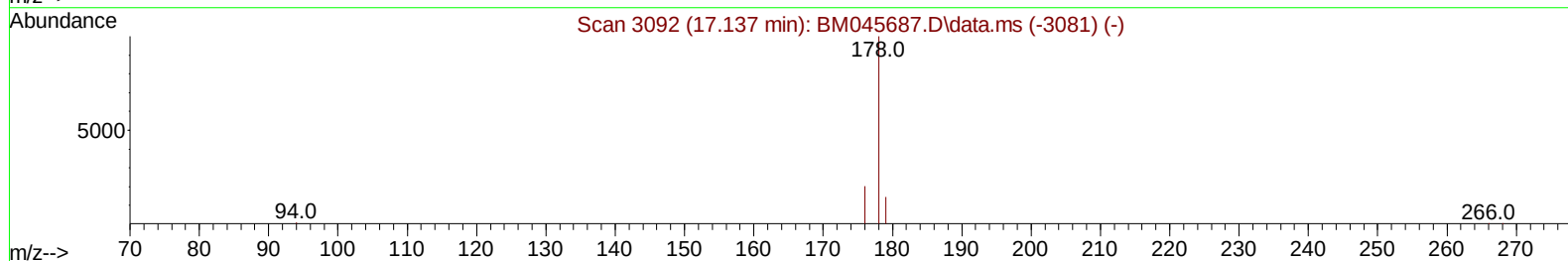
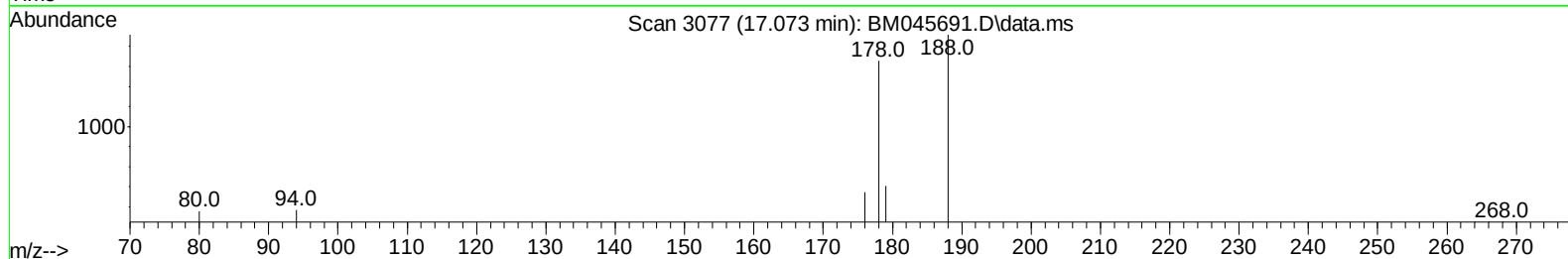
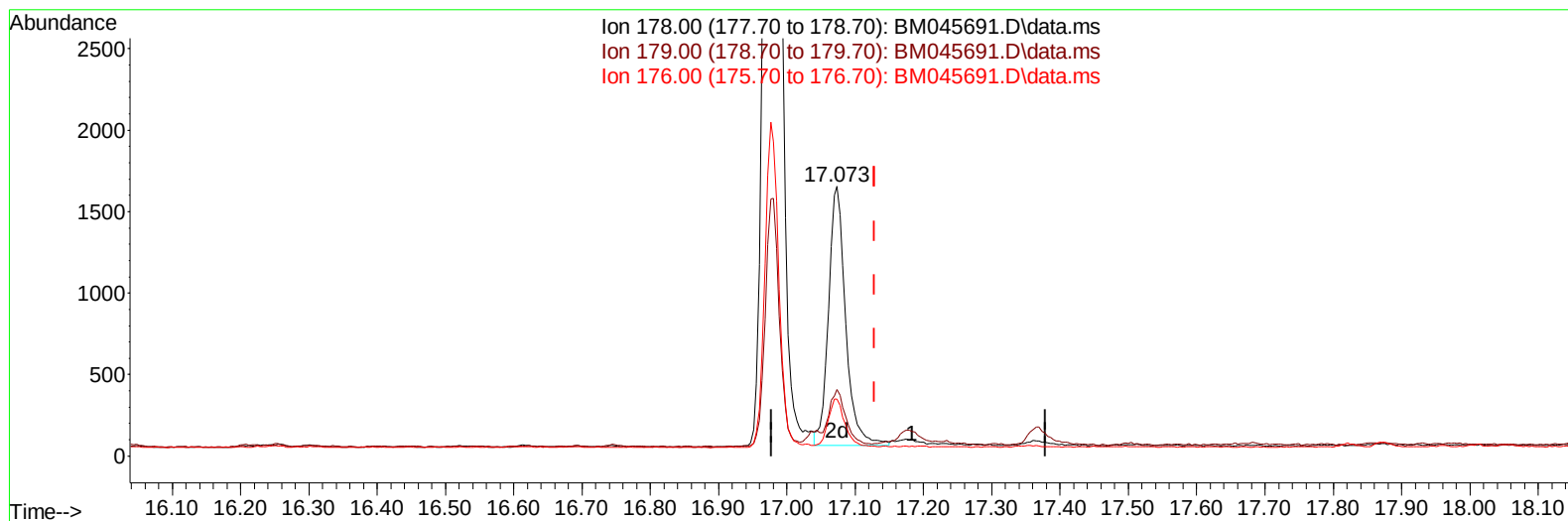
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(16) Anthracene

17.073min (-0.055) 0.56 ng/ul m

response 2783

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	26.10	24.67
176.00	28.60	21.04#
0.00	0.00	0.00

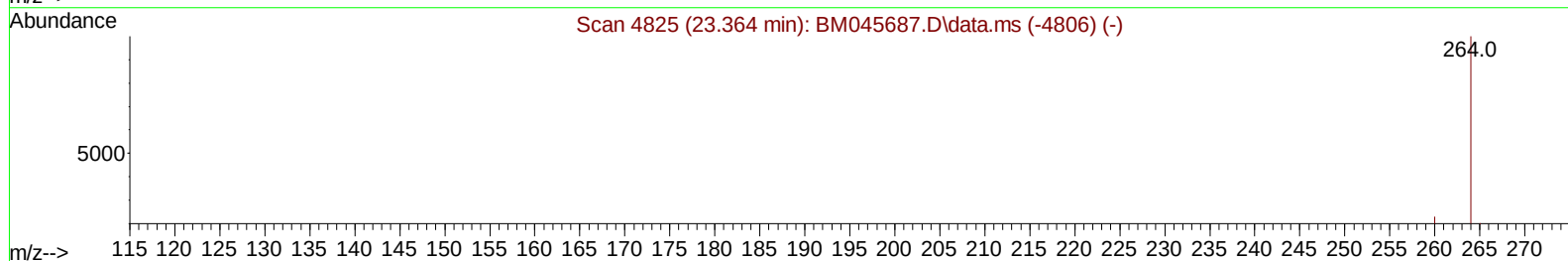
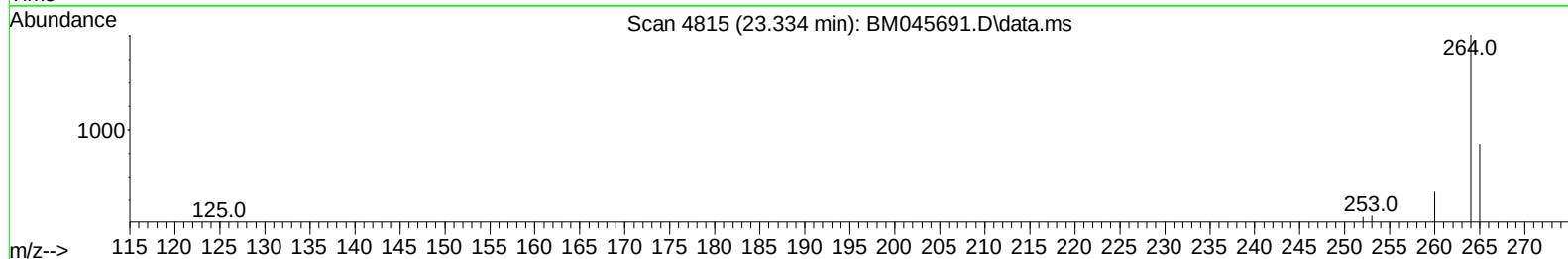
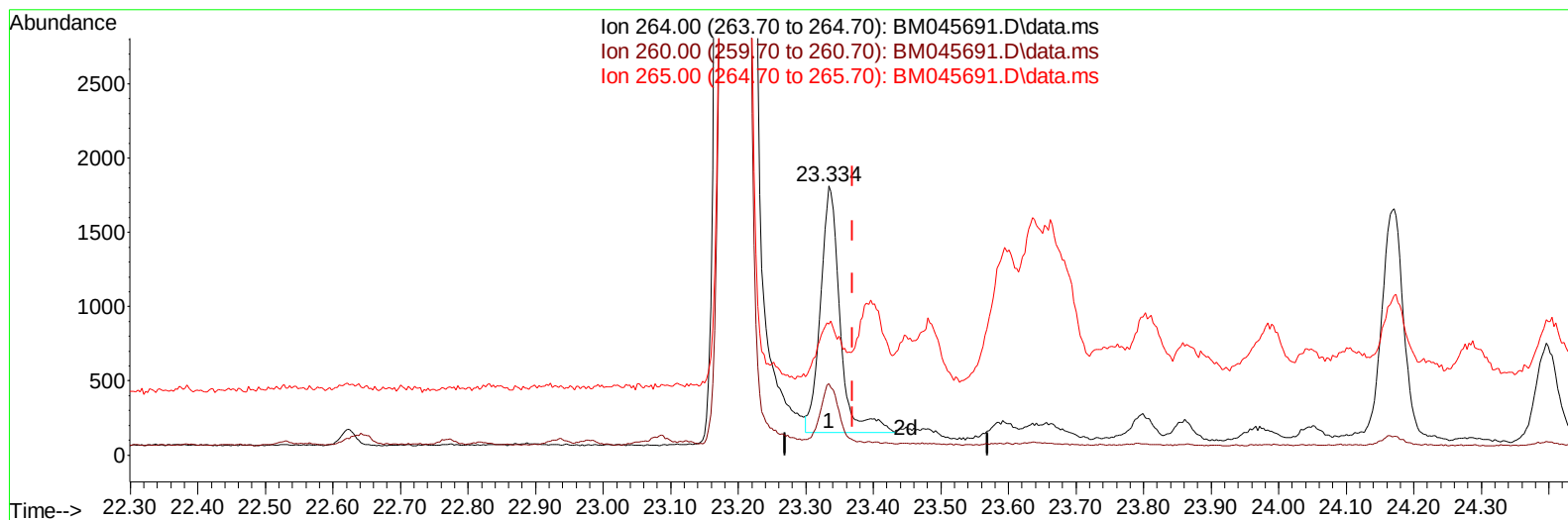
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(23) Perylene-d12 (I)

23.334min (-0.035) 0.40 ng/ul

response 3333

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	29.70	26.45
265.00	66.50	48.65#
0.00	0.00	0.00

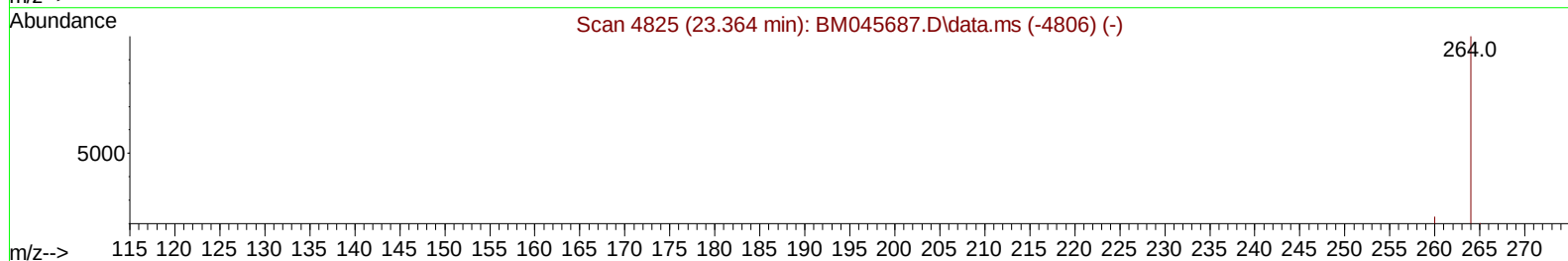
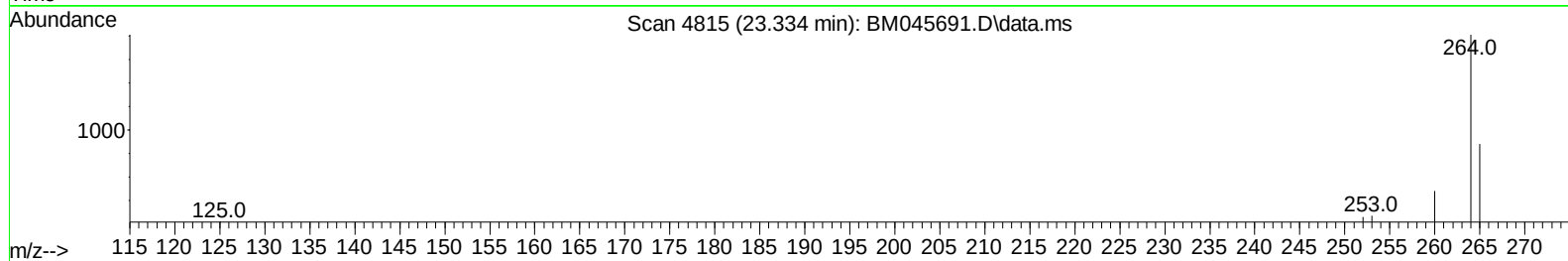
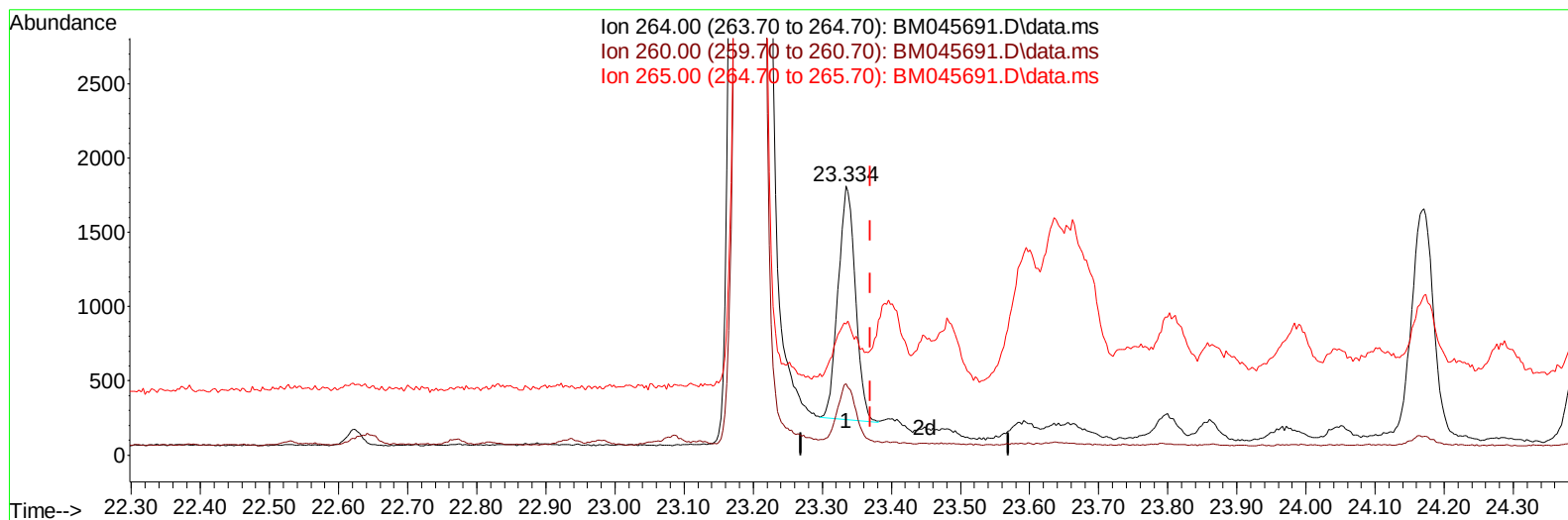
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
 Data File : BM045691.D
 Acq On : 03 May 2024 12:12
 Operator : MA/JU
 Sample : P2238-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 03 03:27:04 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(23) Perylene-d12 (I)

23.334min (-0.035) 0.40 ng/ul m

response 2741

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	29.70	26.45
265.00	66.50	48.65#
0.00	0.00	0.00

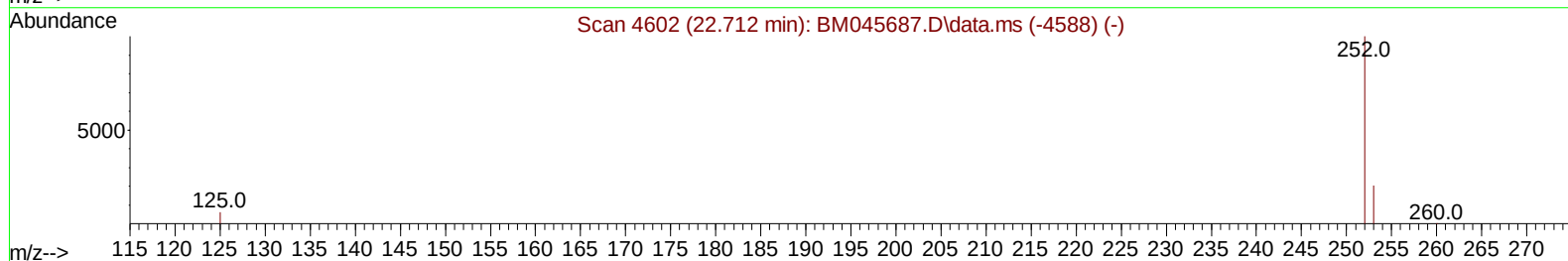
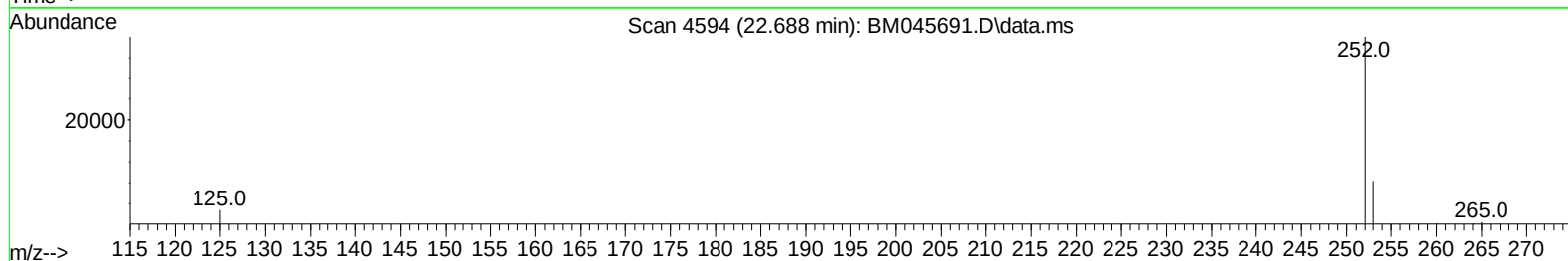
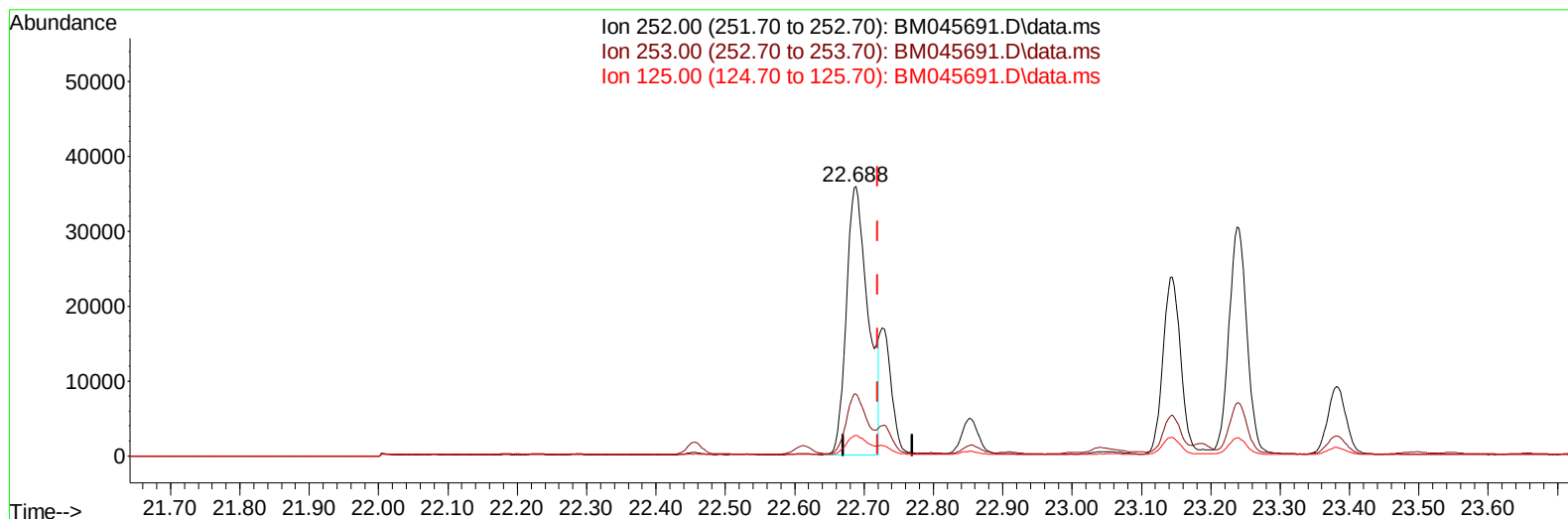
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(24) Benzo(b)fluoranthene

22.688min (-0.032) 10.19 ng/u1

response 77808

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	33.60	23.12
125.00	14.00	7.59
0.00	0.00	0.00

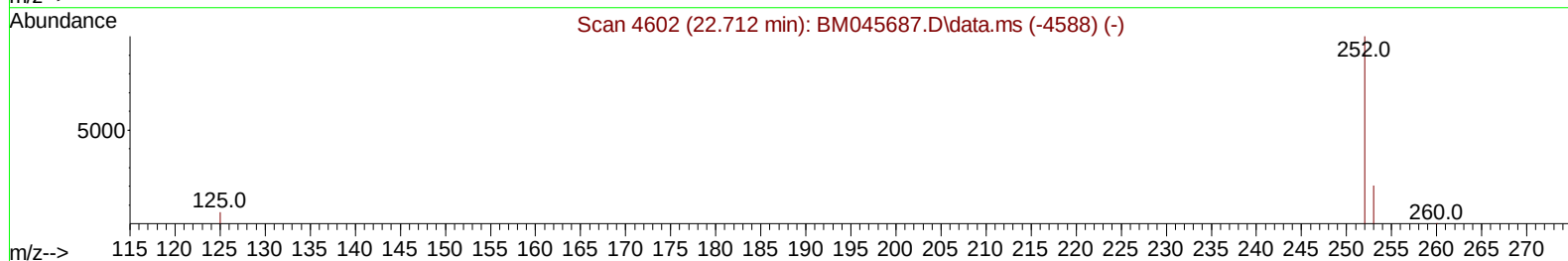
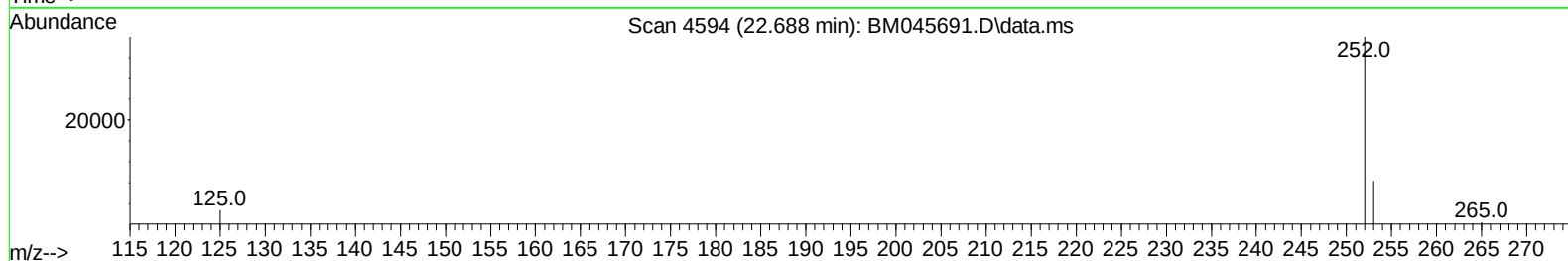
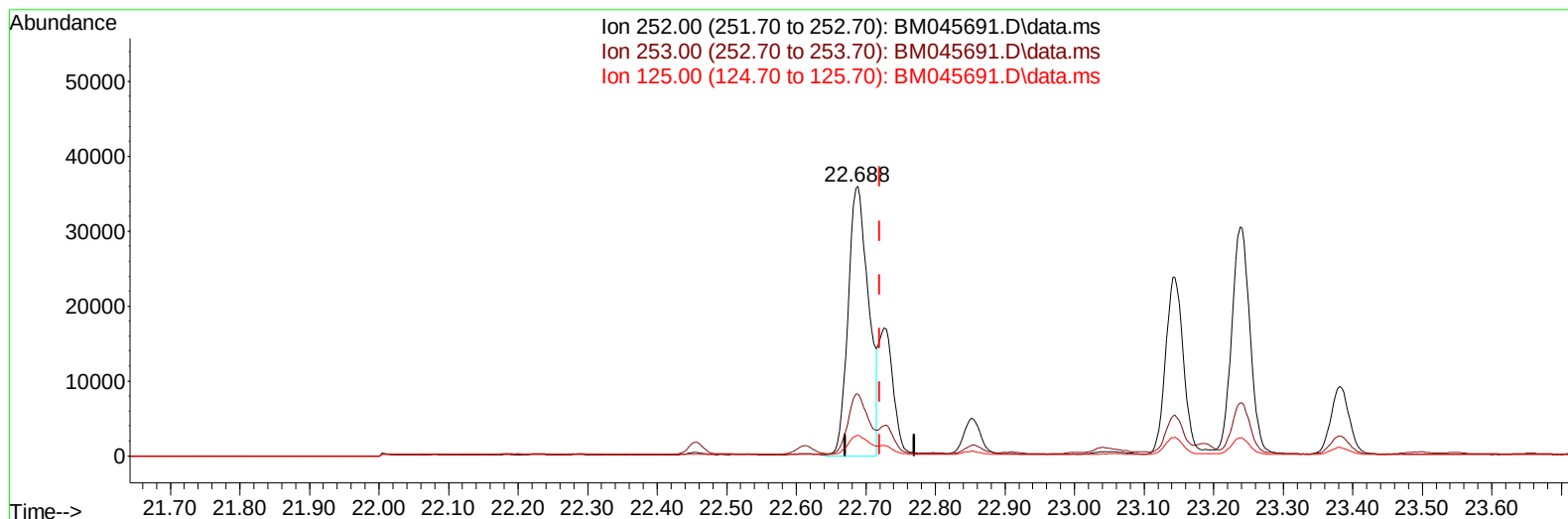
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
 Data File : BM045691.D
 Acq On : 03 May 2024 12:12
 Operator : MA/JU
 Sample : P2238-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 03 03:27:04 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(24) Benzo(b)fluoranthene

22.688min (-0.032) 9.60 ng/ul m

response 73254

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	33.60	23.12
125.00	14.00	7.59
0.00	0.00	0.00

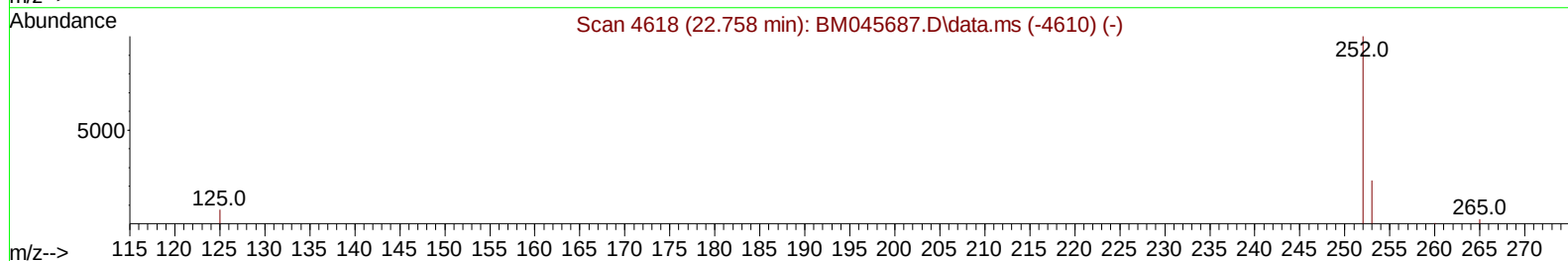
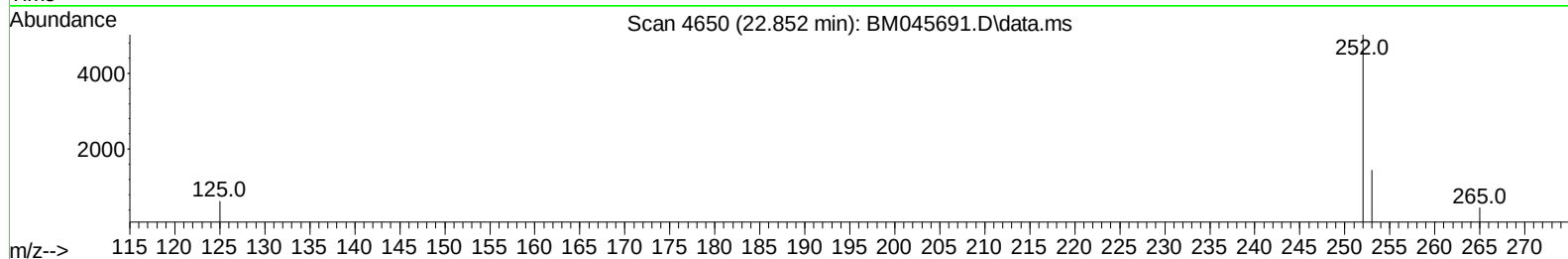
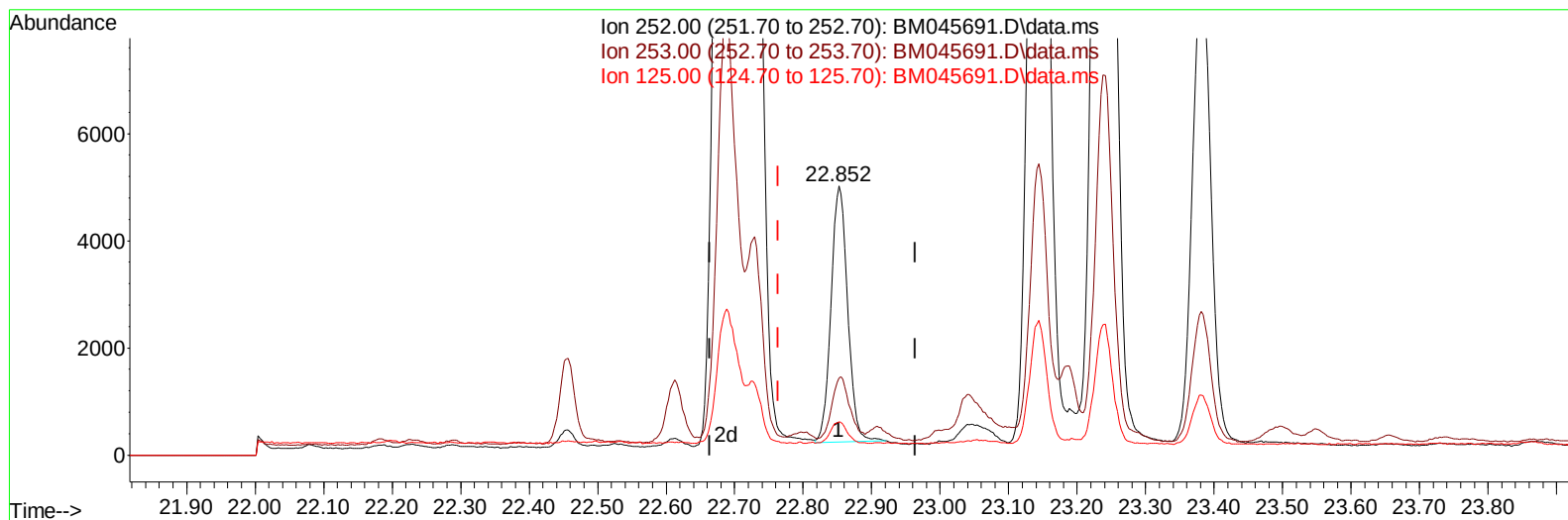
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(25) Benzo(k)fluoranthene

22.852min (+ 0.088) 0.86 ng/u1

response 8086

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	34.70	28.76
125.00	14.90	12.37
0.00	0.00	0.00

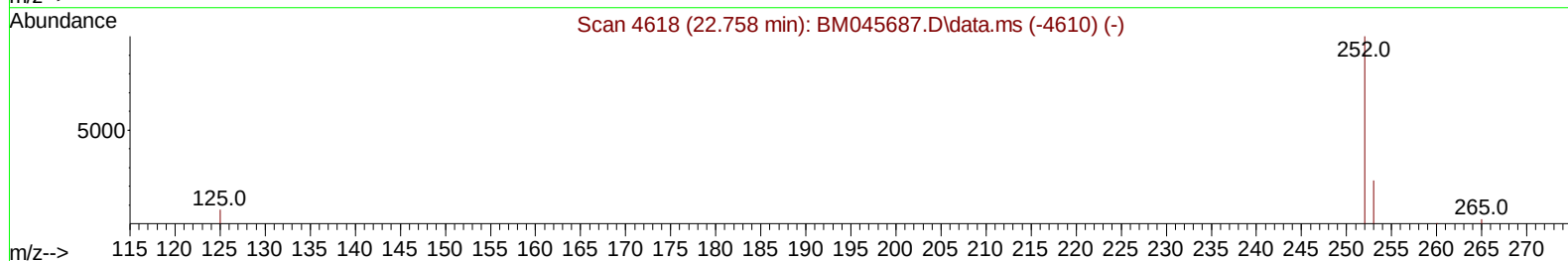
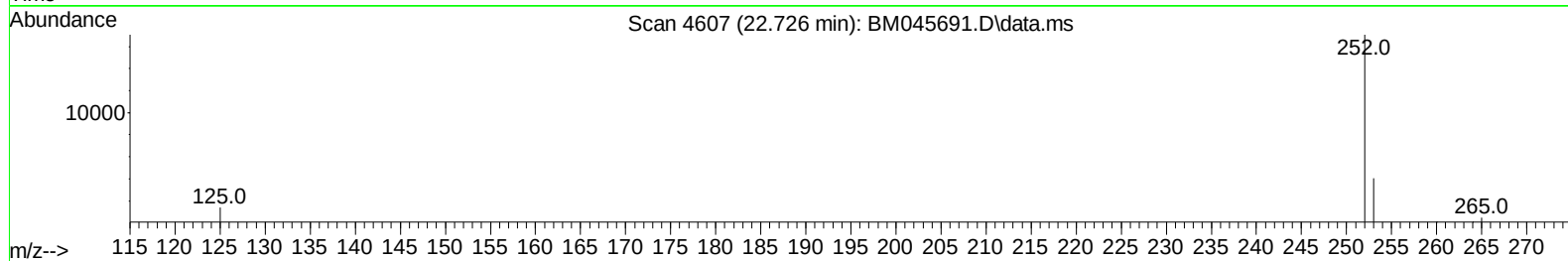
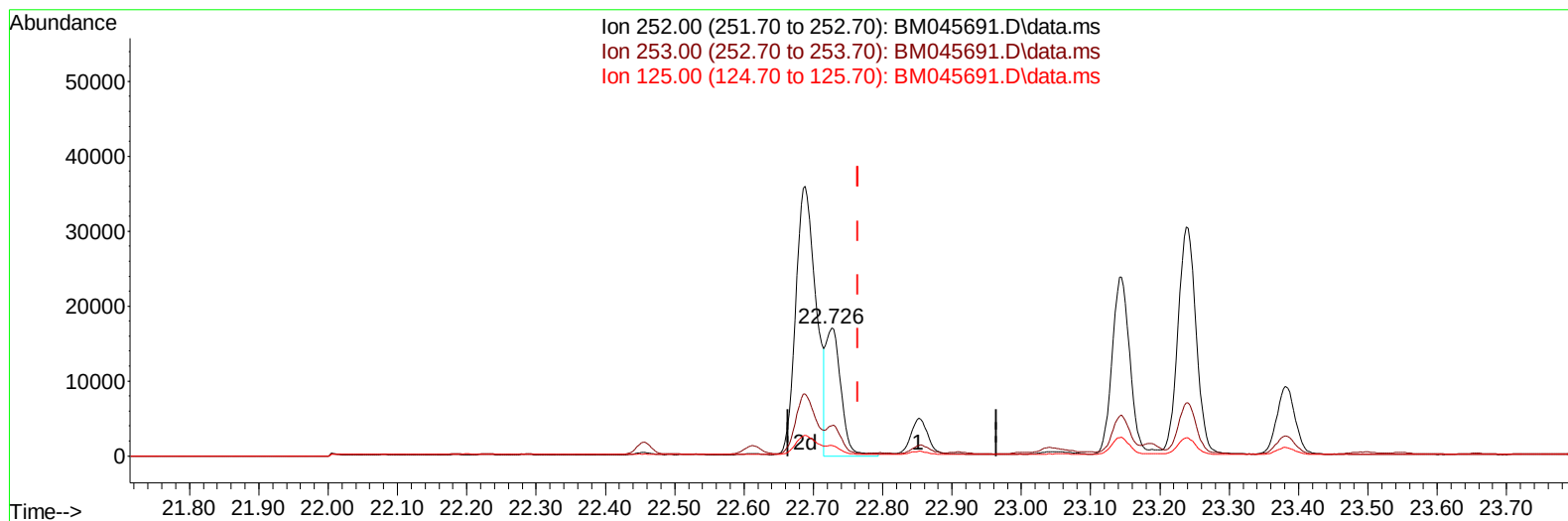
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
 Data File : BM045691.D
 Acq On : 03 May 2024 12:12
 Operator : MA/JU
 Sample : P2238-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 03 03:27:04 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(25) Benzo(k)fluoranthene

22.726min (-0.038) 2.76 ng/ul m

response 26106

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	34.70	23.55#
125.00	14.90	8.06#
0.00	0.00	0.00

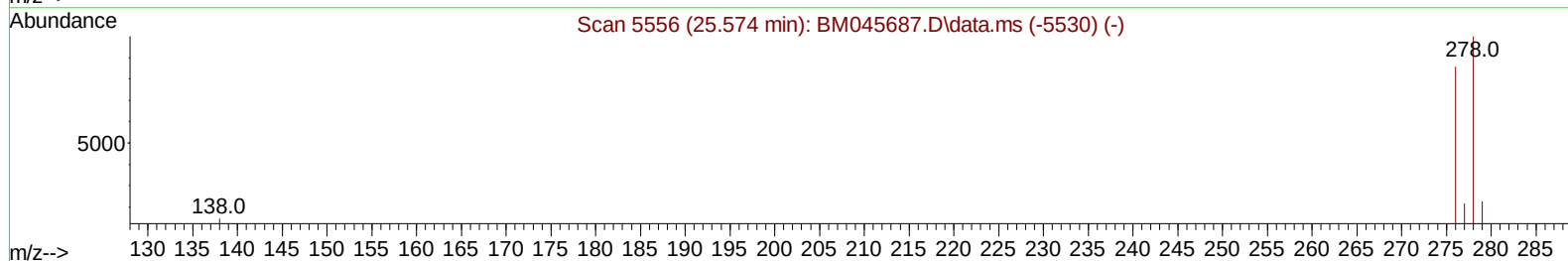
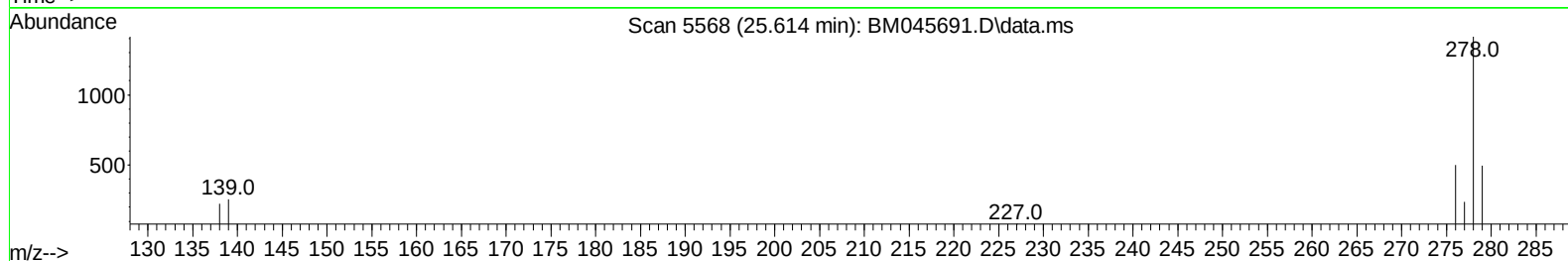
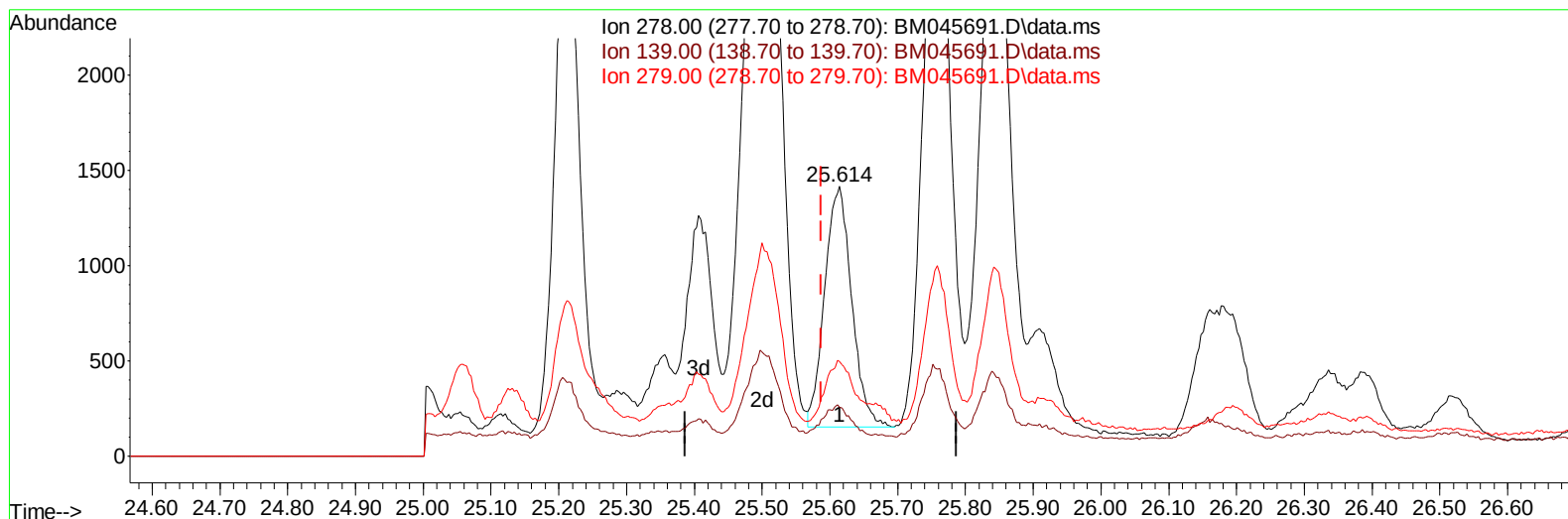
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(28) Dibenzo(a,h)anthracene

25.614min (+ 0.027) 0.37 ng/u1

response 3492

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	21.10	18.10
279.00	39.80	35.15
0.00	0.00	0.00

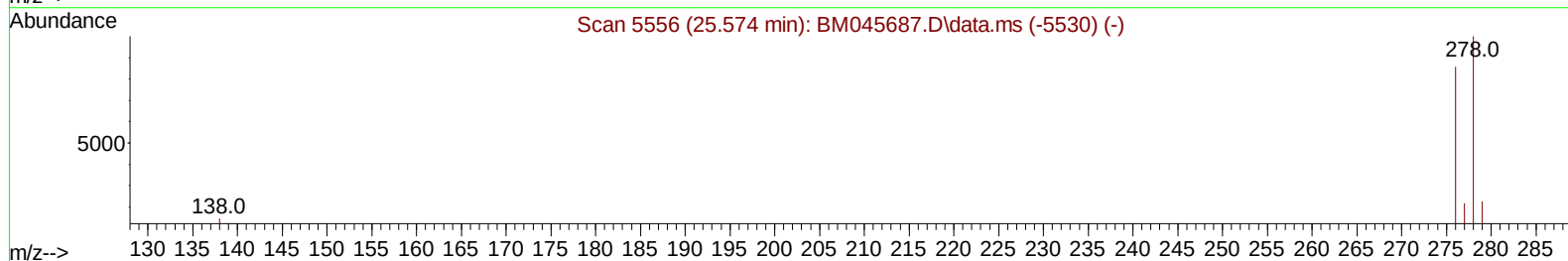
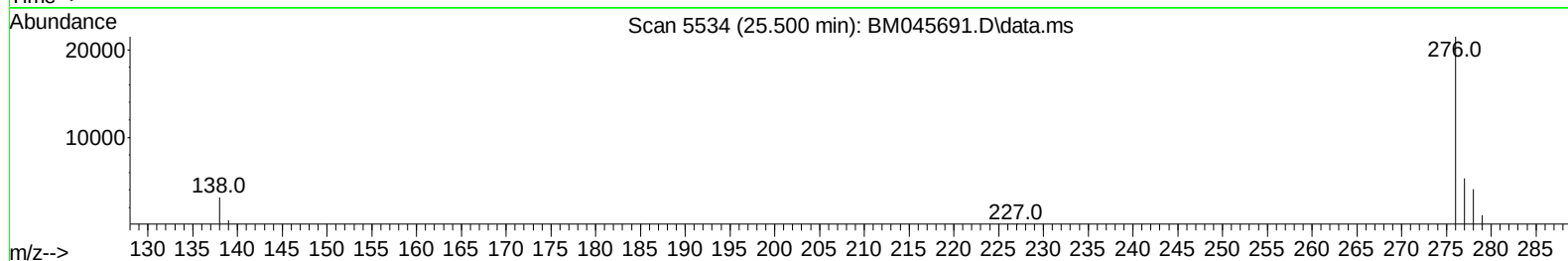
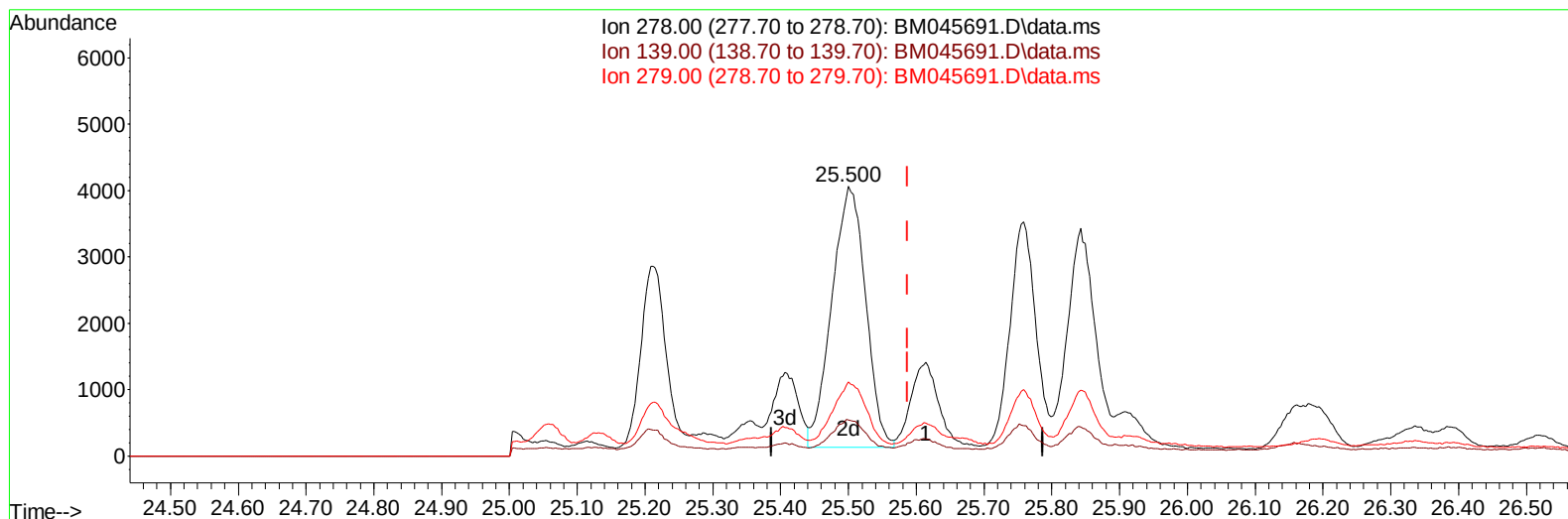
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



TIC: BM045691.D\data.ms

(28) Dibenzo(a,h)anthracene

25.500min (-0.087) 1.46 ng/ul m

response 13618

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	21.10	13.44#
279.00	39.80	27.53#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
 Data File : BM045691.D
 Acq On : 03 May 2024 12:12
 Operator : MA/JU
 Sample : P2238-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 03 03:27:04 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.521	152	409	0.400	ng/ul	#-0.05
4) Naphthalene-d8	10.286	136	1240	0.400	ng/ul	#-0.06
9) Acenaphthene-d10	14.173	164	855	0.400	ng/ul	-0.02
13) Phenanthrene-d10	16.938	188	2045m	0.400	ng/ul	-0.04
17) Chrysene-d12	21.157	240	2386	0.400	ng/ul	-0.03
23) Perylene-d12	23.334	264	2741m	0.400	ng/ul	-0.04
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.142	96	1599	3.453	ng/ul	-0.01
6) 2-Methylnaphthalene-d10	11.898	152	517	0.264	ng/ul	-0.05
18) Fluoranthene-d10	18.983	212	1551	0.259	ng/ul	-0.03
Target Compounds						
						Qvalue
5) Naphthalene	10.336	128	1034	0.327	ng/ul#	77
7) 2-Methylnaphthalene	11.975	142	478	0.250	ng/ul	97
8) 1-Methylnaphthalene	12.189	142	265	0.125	ng/ul	92
10) Acenaphthylene	13.891	152	426	0.119	ng/ul#	78
11) Acenaphthene	14.233	153	1336	0.502	ng/ul	96
12) Fluorene	15.237	166	853	0.276	ng/ul	96
15) Phenanthrene	16.976	178	14412m	2.837	ng/ul	
16) Anthracene	17.073	178	2783m	0.565	ng/ul	
19) Fluoranthene	19.011	202	28044	3.699	ng/ul#	83
20) Pyrene	19.378	202	26220	3.251	ng/ul#	84
21) Benzo(a)anthracene	21.143	228	24280	3.486	ng/ul#	91
22) Chrysene	21.195	228	27745	2.815	ng/ul	93
24) Benzo(b)fluoranthene	22.688	252	73254m	9.595	ng/ul	
25) Benzo(k)fluoranthene	22.726	252	26106m	2.762	ng/ul	
26) Benzo(a)pyrene	23.238	252	55246	6.529	ng/ul#	74
27) Indeno(1,2,3-cd)pyrene	25.497	276	58496	5.019	ng/ul#	96
28) Dibenzo(a,h)anthracene	25.500	278	13618m	1.461	ng/ul	
29) Benzo(g,h,i)perylene	26.158	276	65135	6.303	ng/ul#	83

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050324\
Data File : BM045691.D
Acq On : 03 May 2024 12:12
Operator : MA/JU
Sample : P2238-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E1CX6

Manual IntegrationsAPPROVED

Quant Time: May 03 13:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM050324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 03 03:27:04 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/03/2024
Supervised By :mohammad ahmed 05/06/2024

