

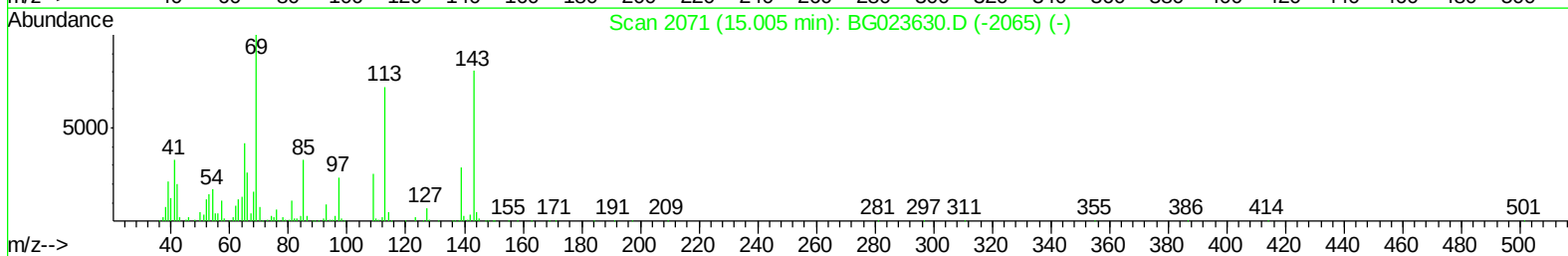
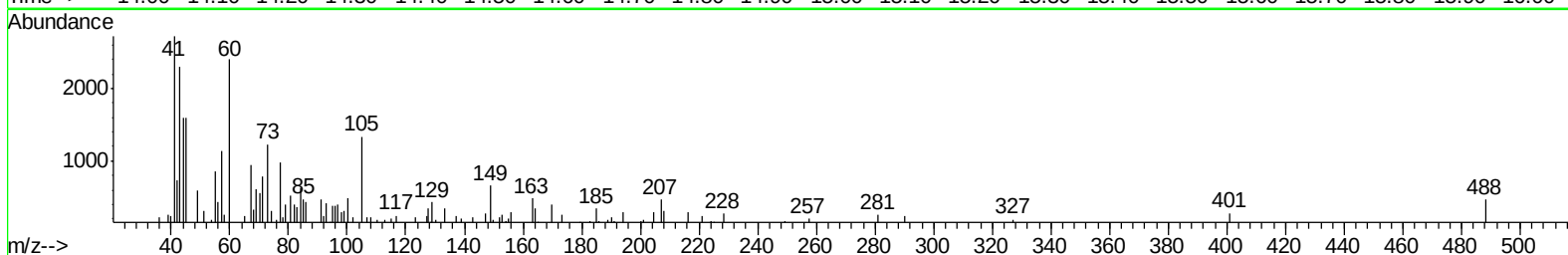
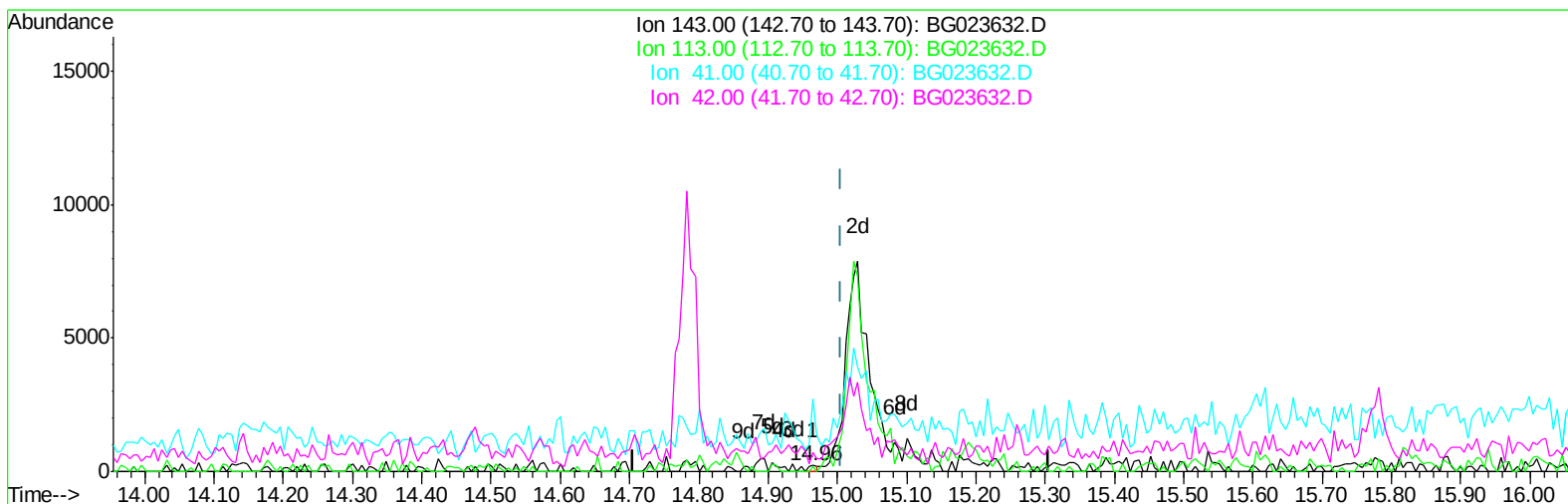
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(51) 4-Nitrophenol-d4 (S)
14.965min (-0.040) 0.03ng/ul

response 209

Ion	Exp%	Act%
143.00	100	100
113.00	53.50	82.51#
41.00	26.90	1221.08#
42.00	16.10	325.56#

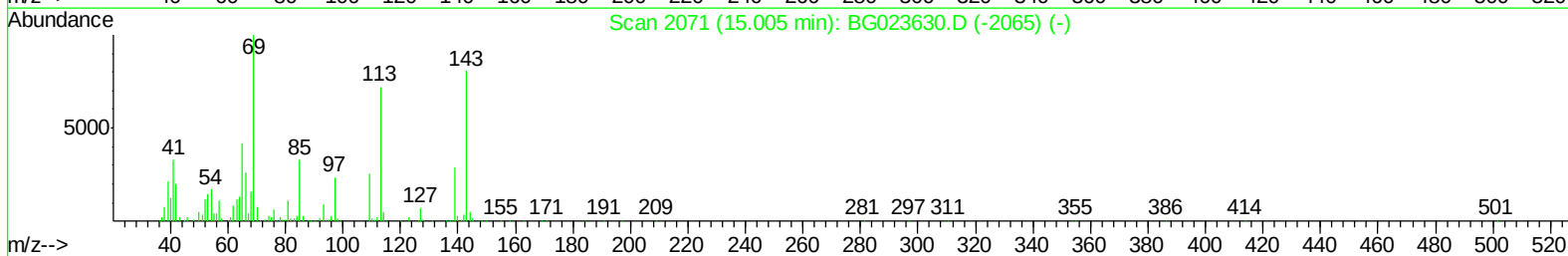
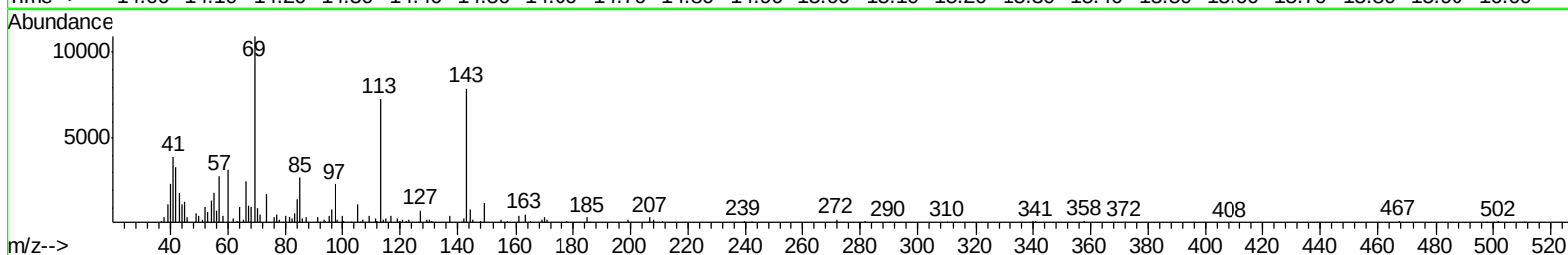
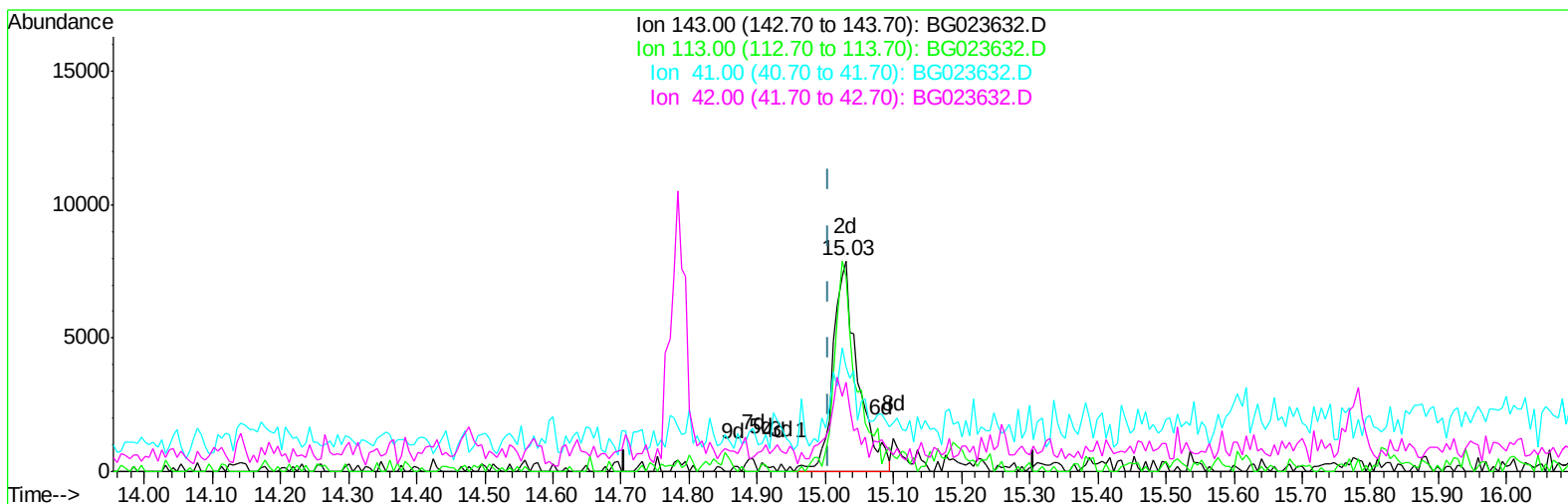
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM



TIC: BG023632.D

(51) 4-Nitrophenol-d4 (S)

15.030min (+0.024) 2.92ng/ul m

response 19936

Ion	Exp%	Act%
143.00	100	100
113.00	53.50	92.52#
41.00	26.90	49.73#
42.00	16.10	42.53#

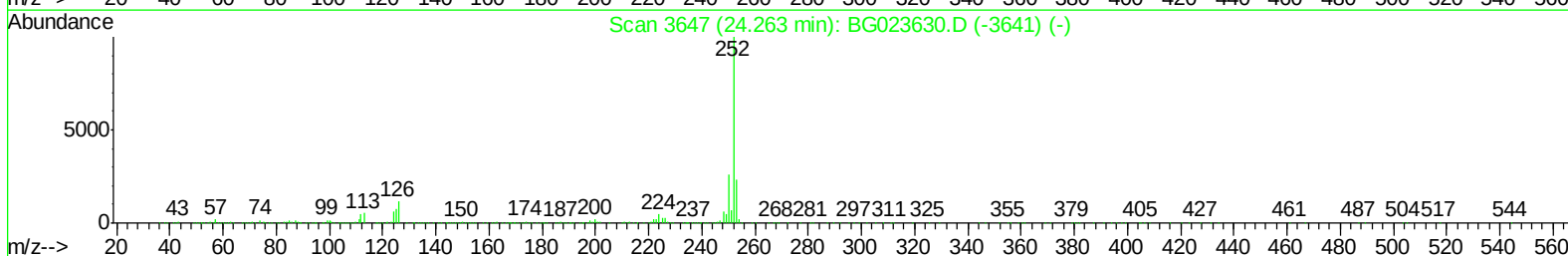
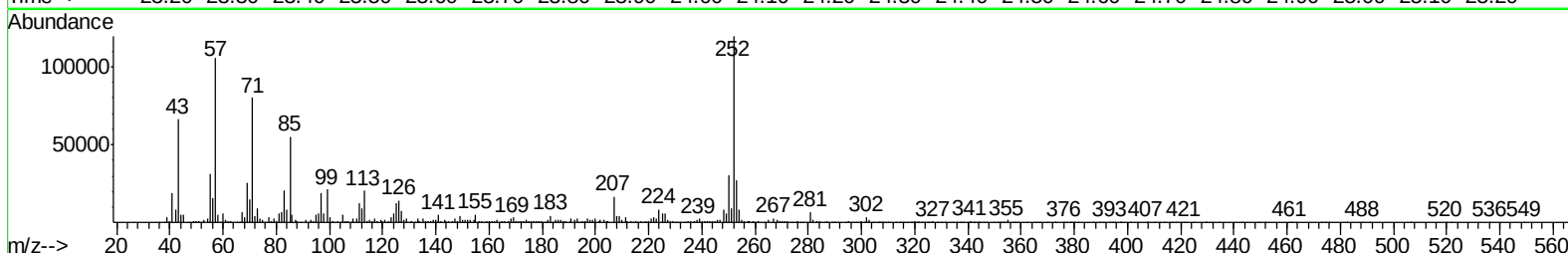
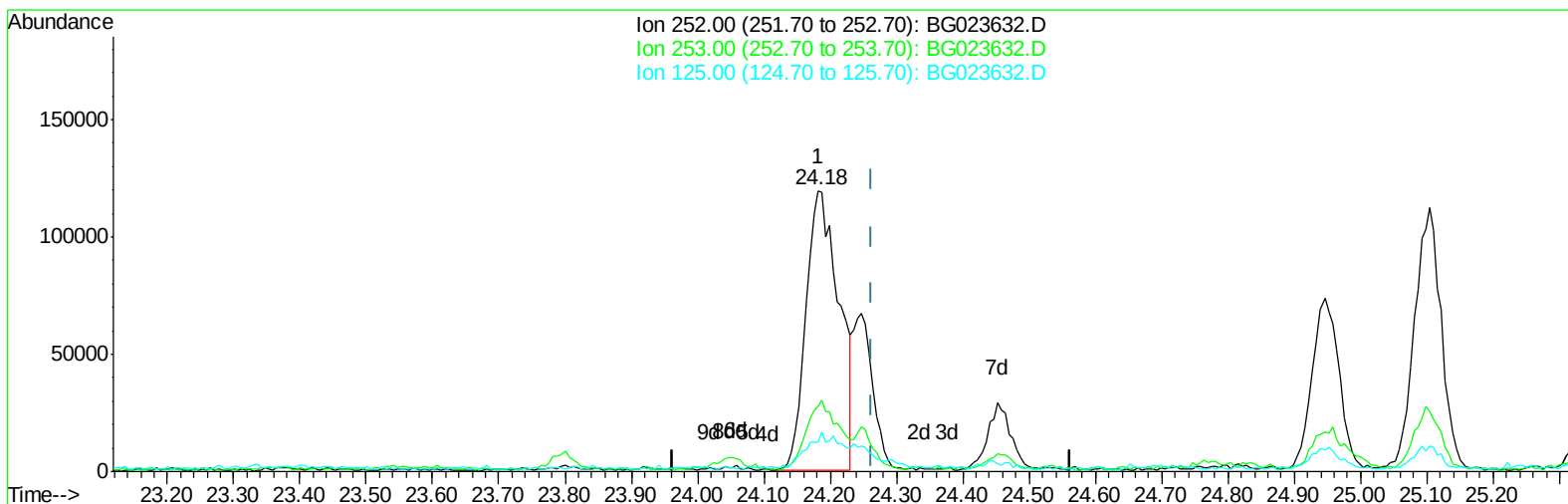
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(86) Benzo(k)fluoranthene

24.182min (-0.081) 6.49ng/ul

response 411511

Ion	Exp%	Act%
252.00	100	100
253.00	19.70	23.02
125.00	13.30	10.70
0.00	0.00	0.00

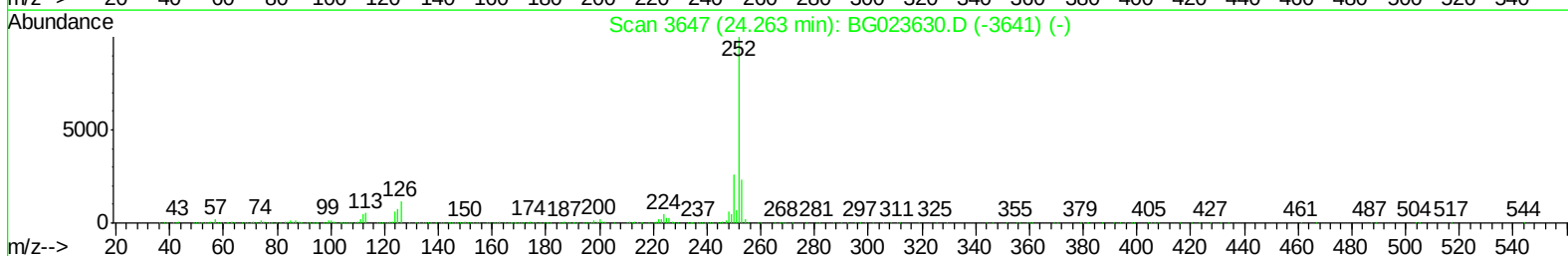
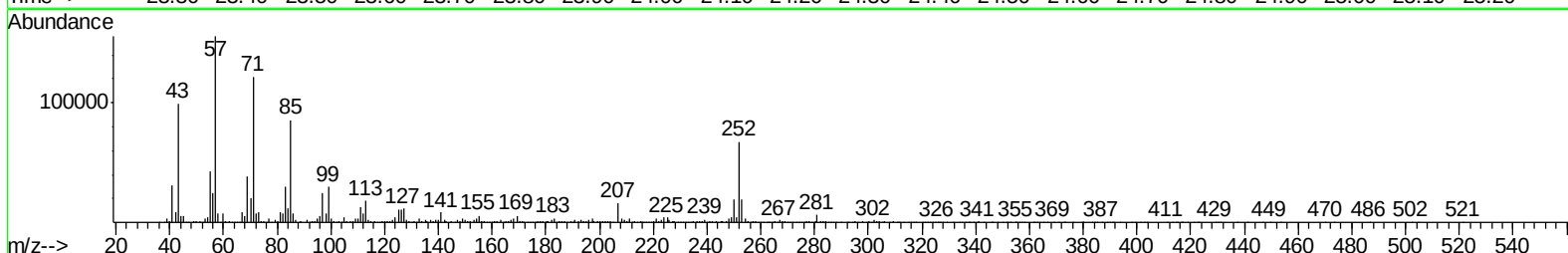
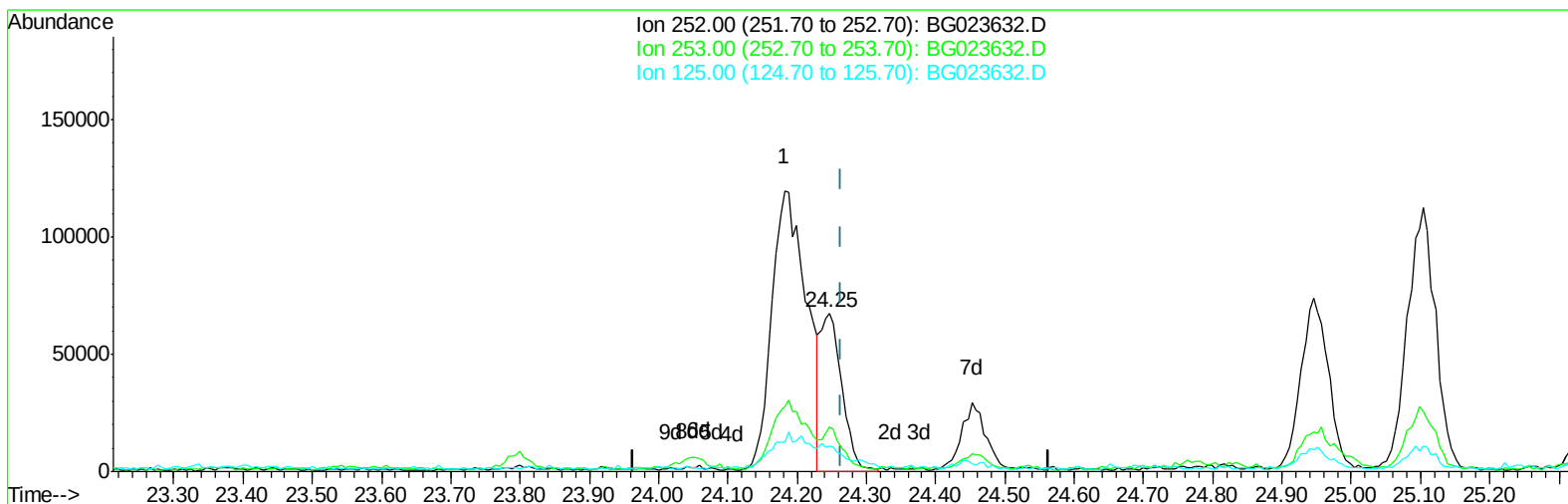
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM



TIC: BG023632.D

(86) Benzo(k)fluoranthene

24.247min (-0.017) 2.25ng/ul m

response 142688

Ion	Exp%	Act%
252.00	100	100
253.00	19.70	27.96#
125.00	13.30	16.41#
0.00	0.00	0.00

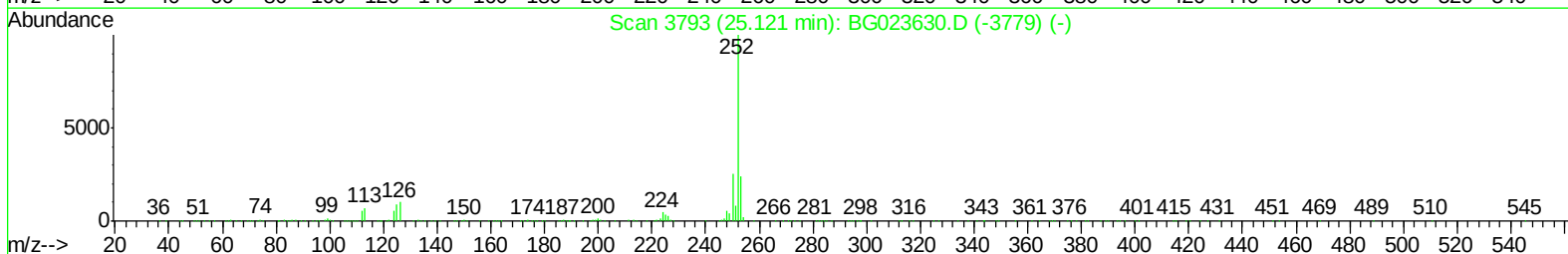
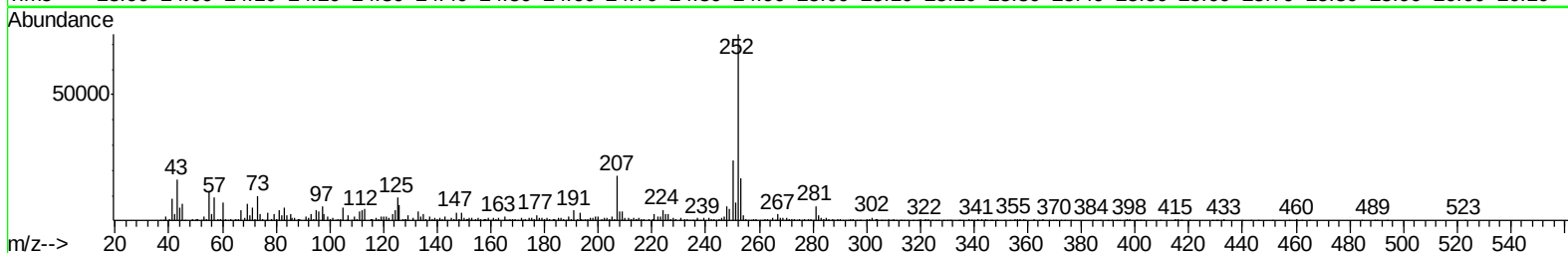
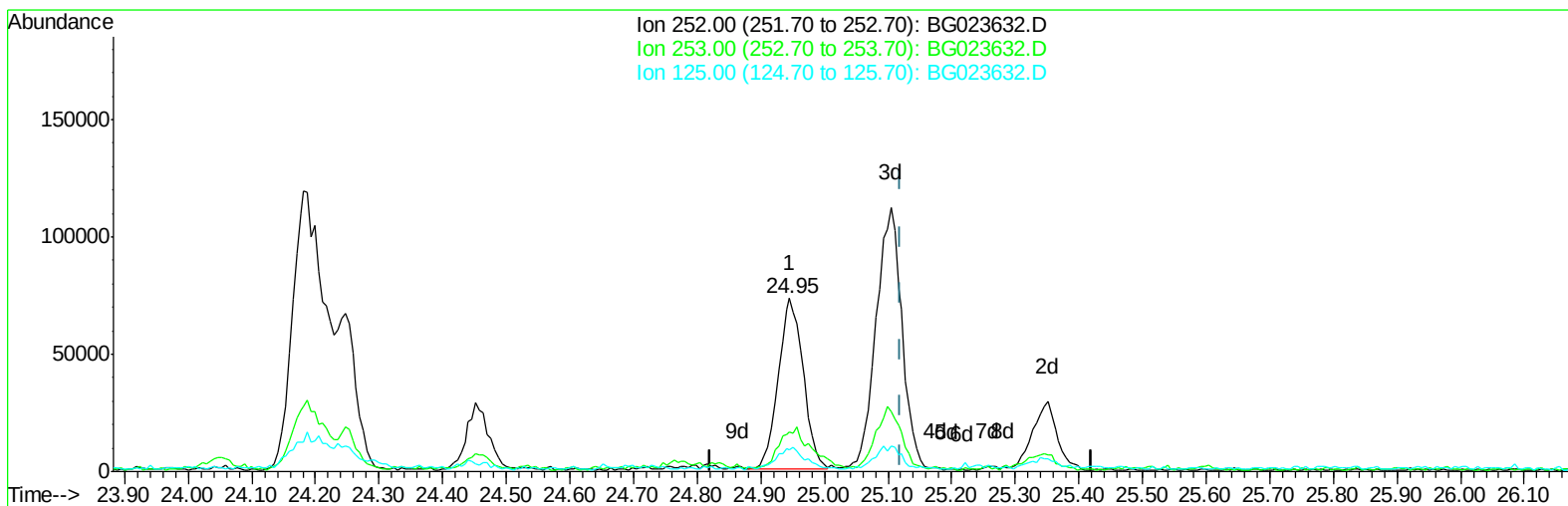
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(88) Benzo(a)pyrene (C)

24.946min (-0.175) 3.22ng/ul

response 200255

Ion	Exp%	Act%
252.00	100	100
253.00	23.70	23.10
125.00	15.00	12.44
0.00	0.00	0.00

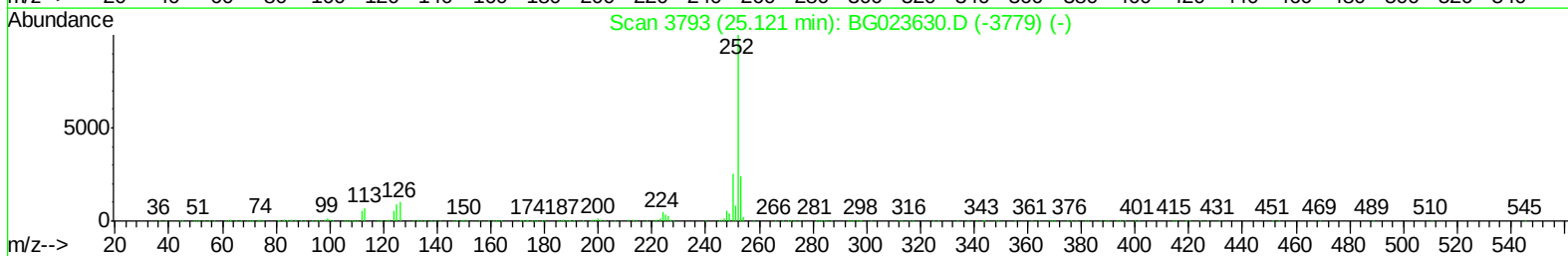
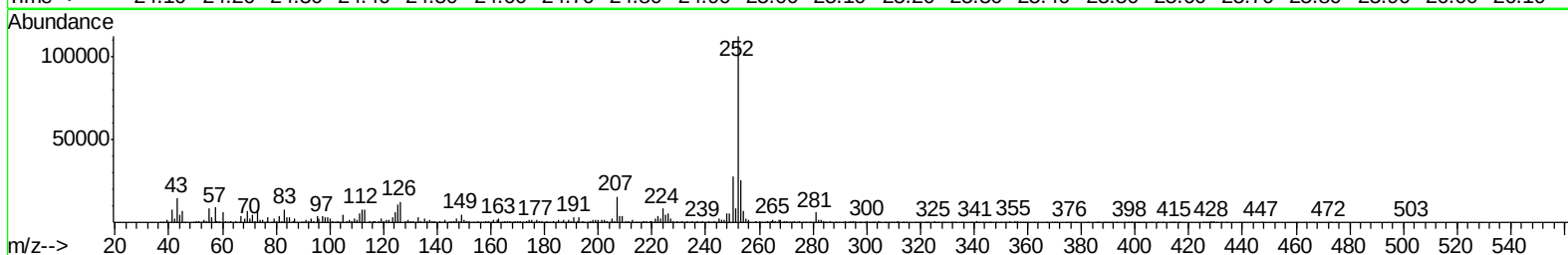
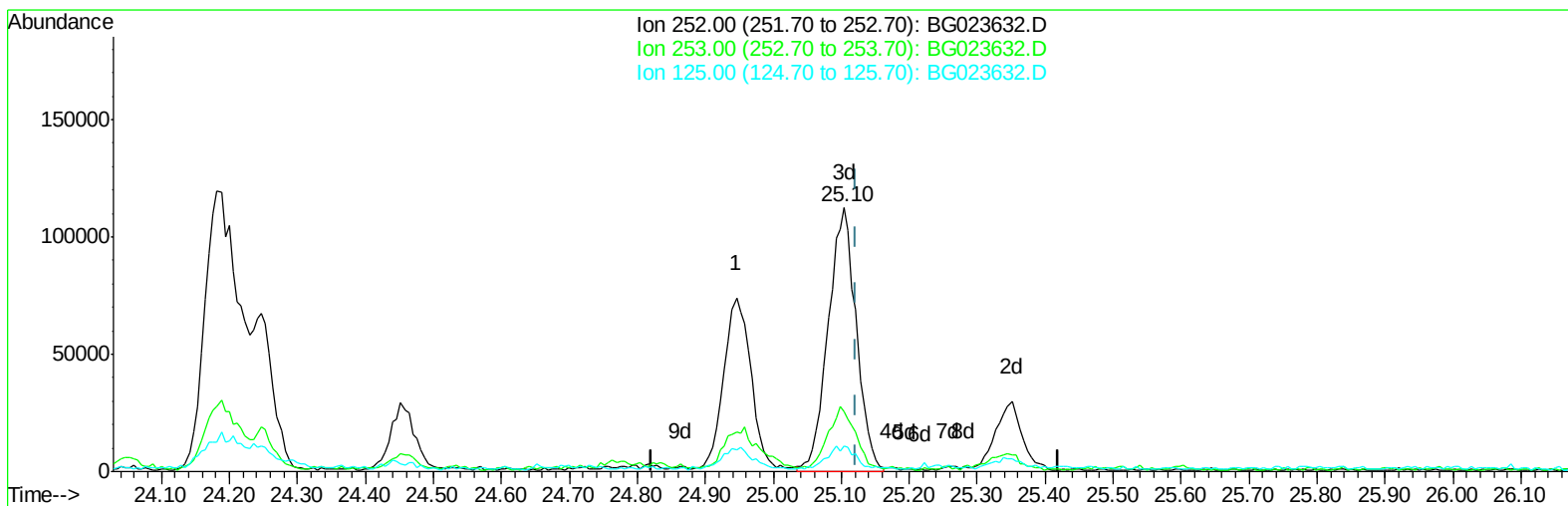
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(88) Benzo(a)pyrene (C)

25.104min (-0.017) 5.20ng/ul m

response 323034

Ion	Exp%	Act%
252.00	100	100
253.00	23.70	22.49
125.00	15.00	9.42#
0.00	0.00	0.00

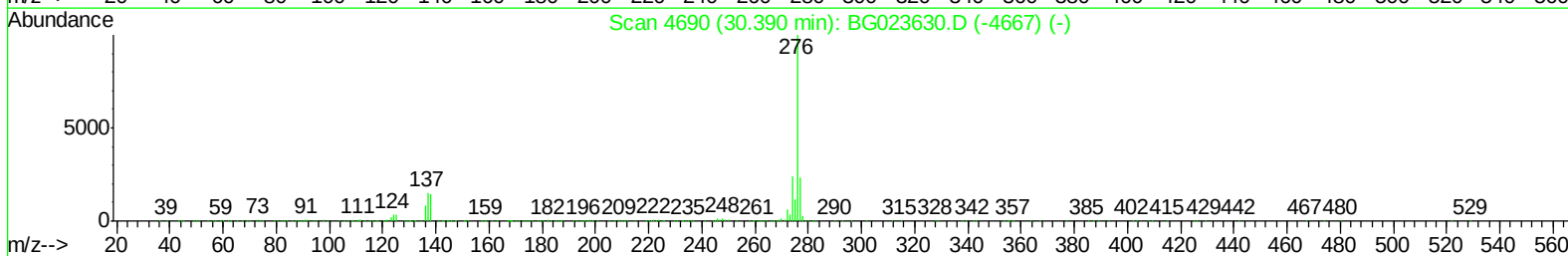
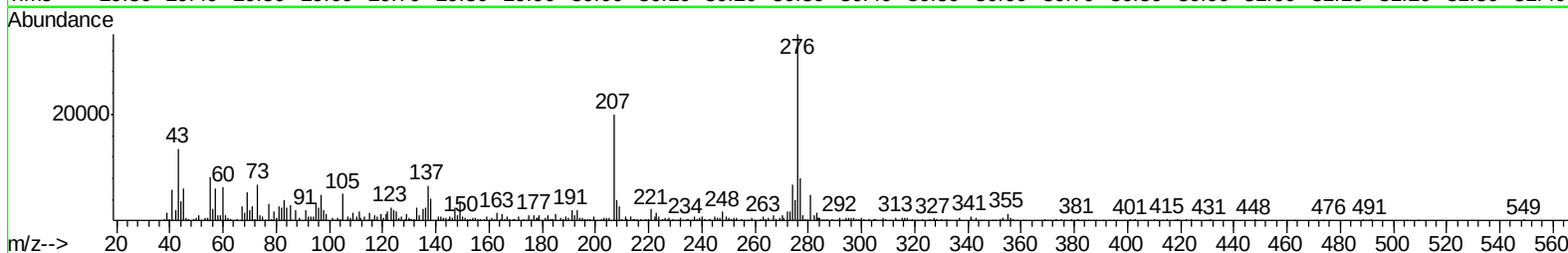
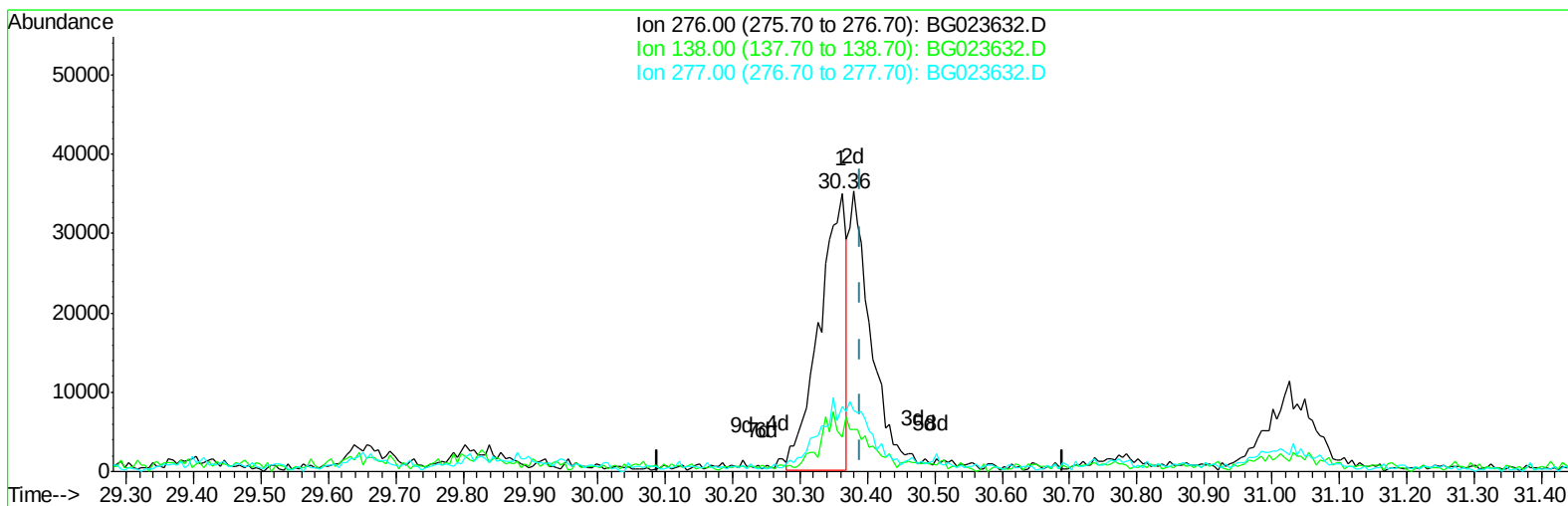
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

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

30.362min (-0.029) 1.56ng/ul

response 94296

Ion	Exp%	Act%
276.00	100	100
138.00	27.60	12.33#
277.00	21.20	23.25
0.00	0.00	0.00

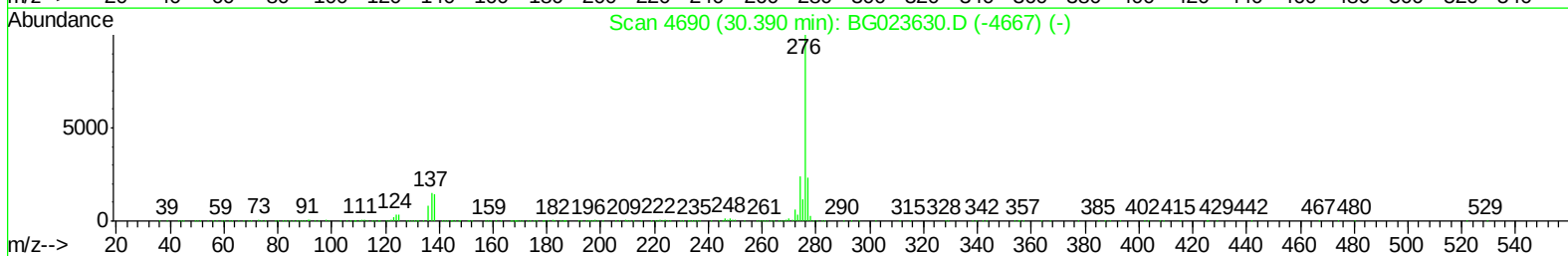
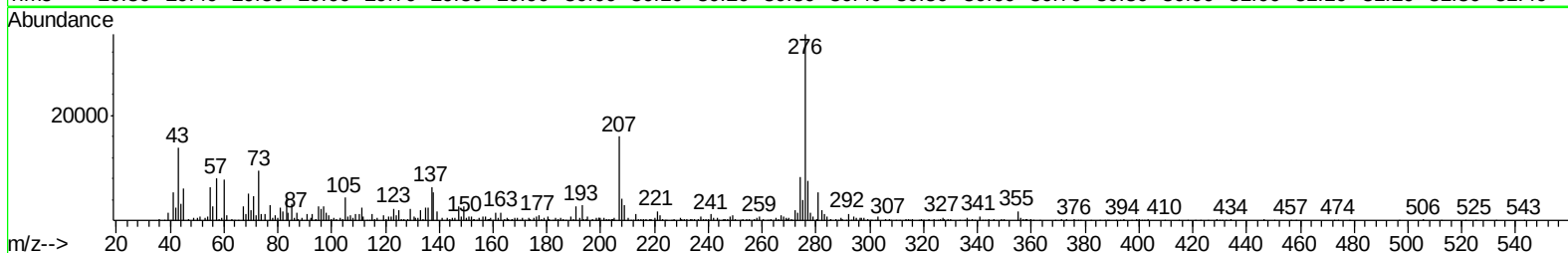
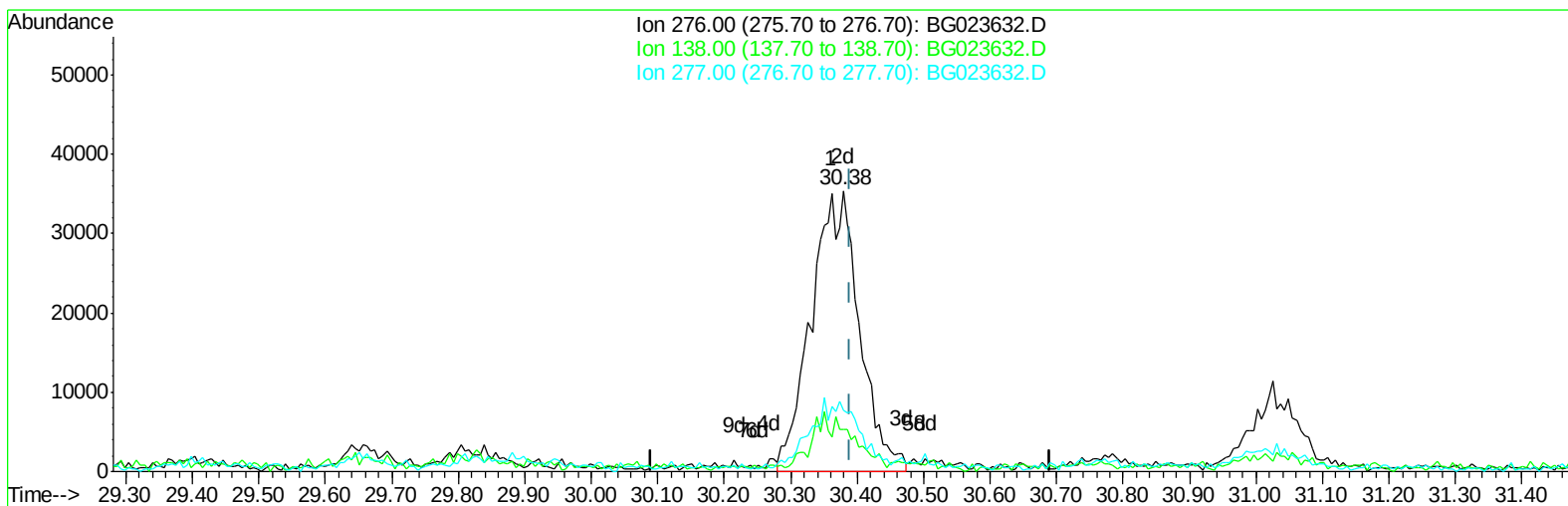
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Quant Time: Aug 12 04:36:09 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM



TIC: BG023632.D

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

30.379min (-0.011) 2.93ng/ul m

response 177143

Ion	Exp%	Act%
276.00	100	100
138.00	27.60	15.19#
277.00	21.20	21.86
0.00	0.00	0.00

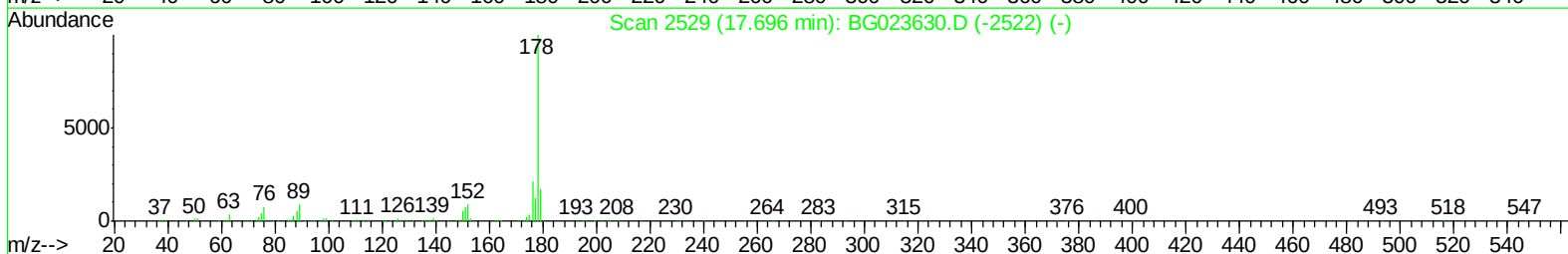
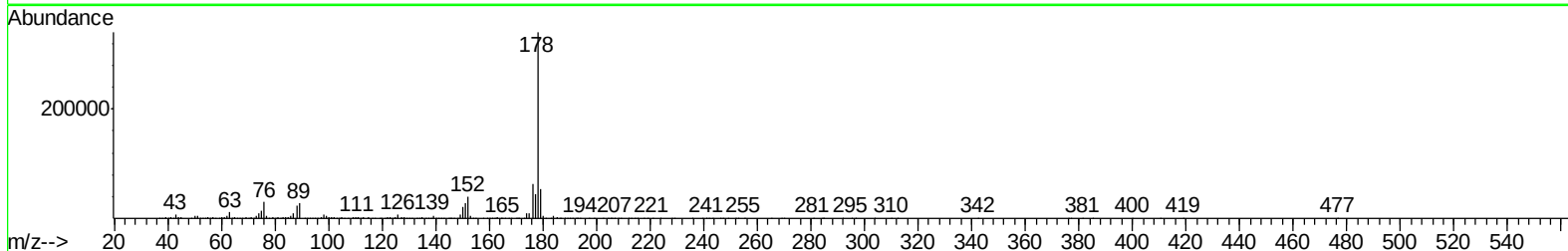
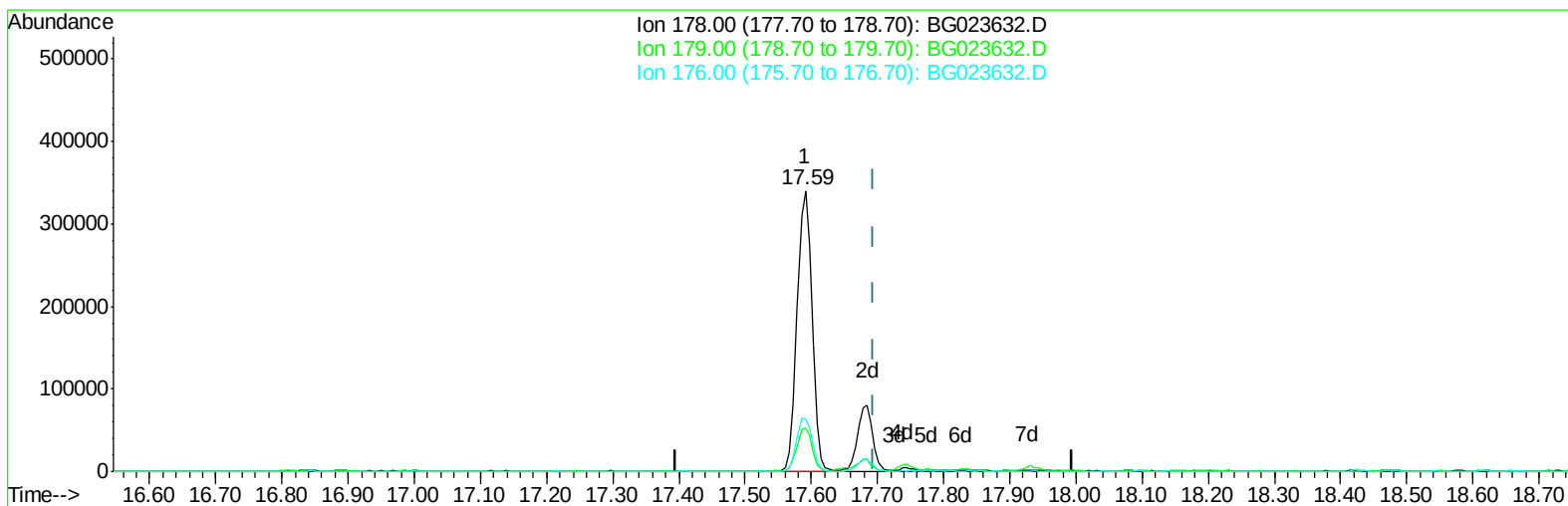
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 05:04:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(71) Anthracene

17.591min (-0.105) 9.18ng/ul

response 516655

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	15.62
176.00	20.40	18.62
0.00	0.00	0.00

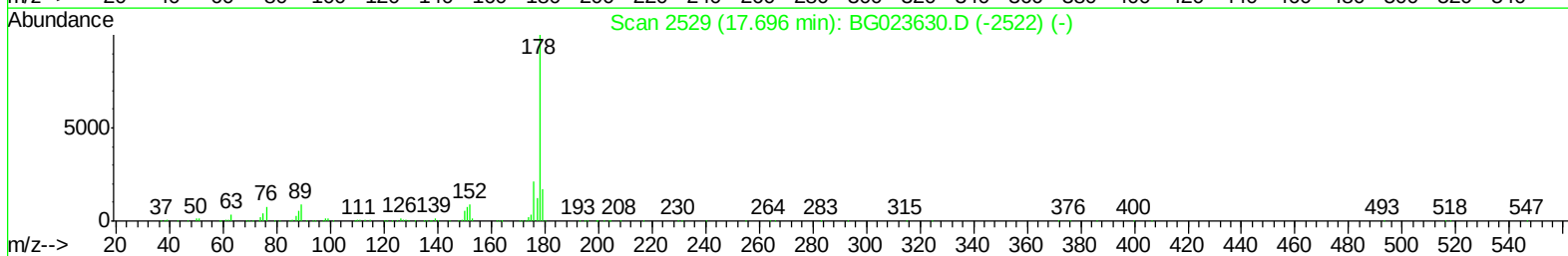
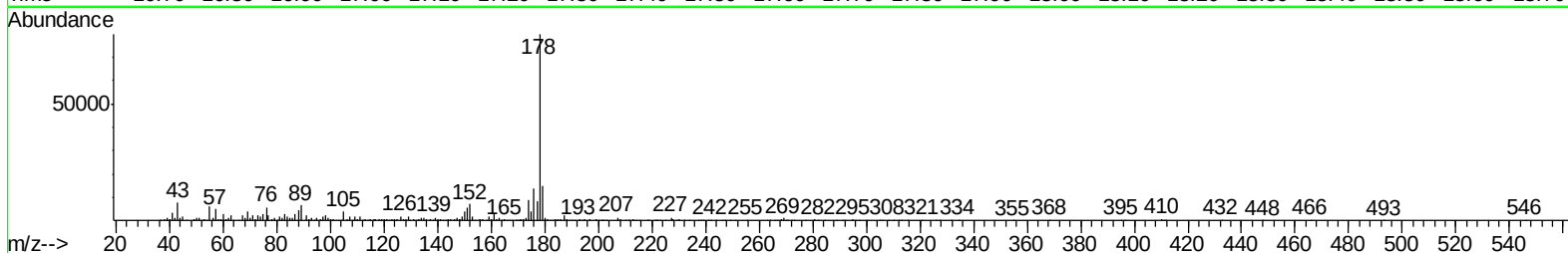
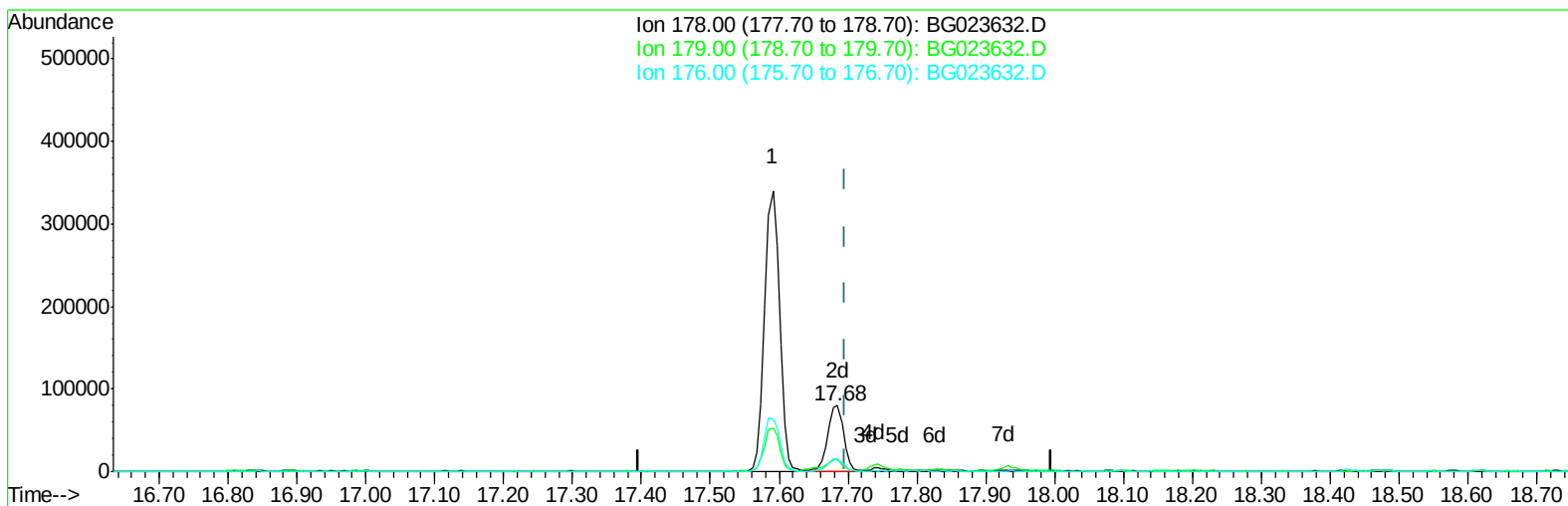
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 05:04:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(71) Anthracene

17.685min (-0.011) 2.31ng/ul m

response 129957

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	18.60#
176.00	20.40	17.15
0.00	0.00	0.00

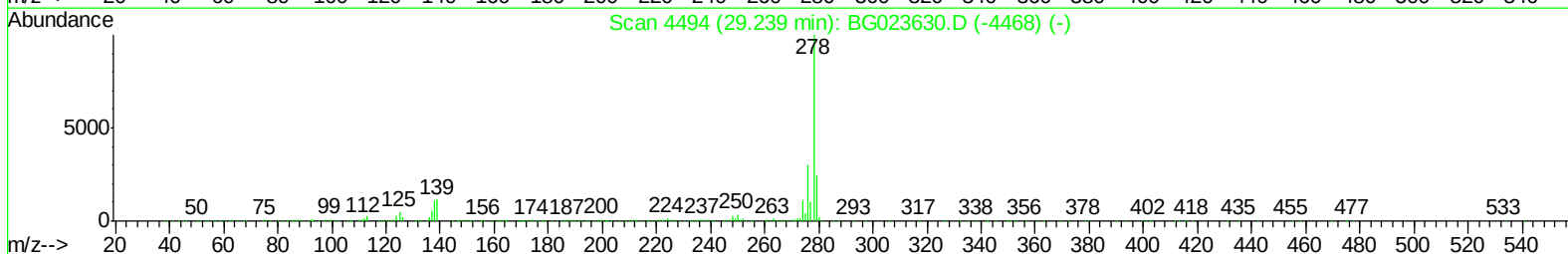
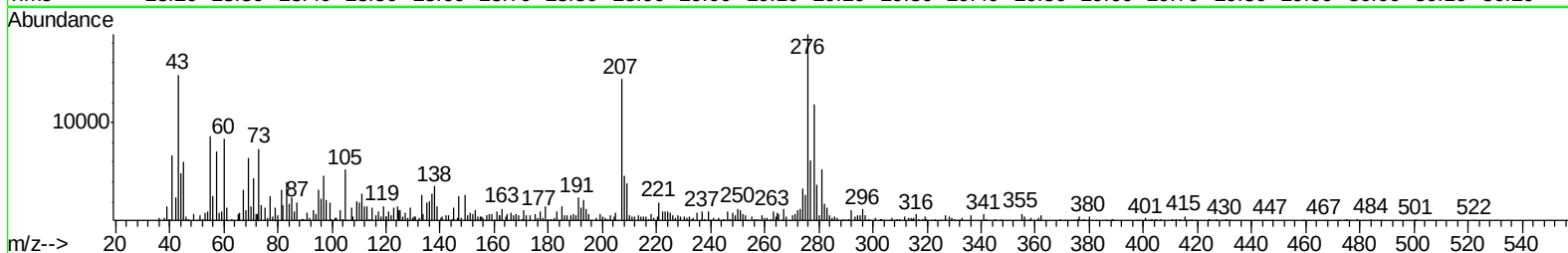
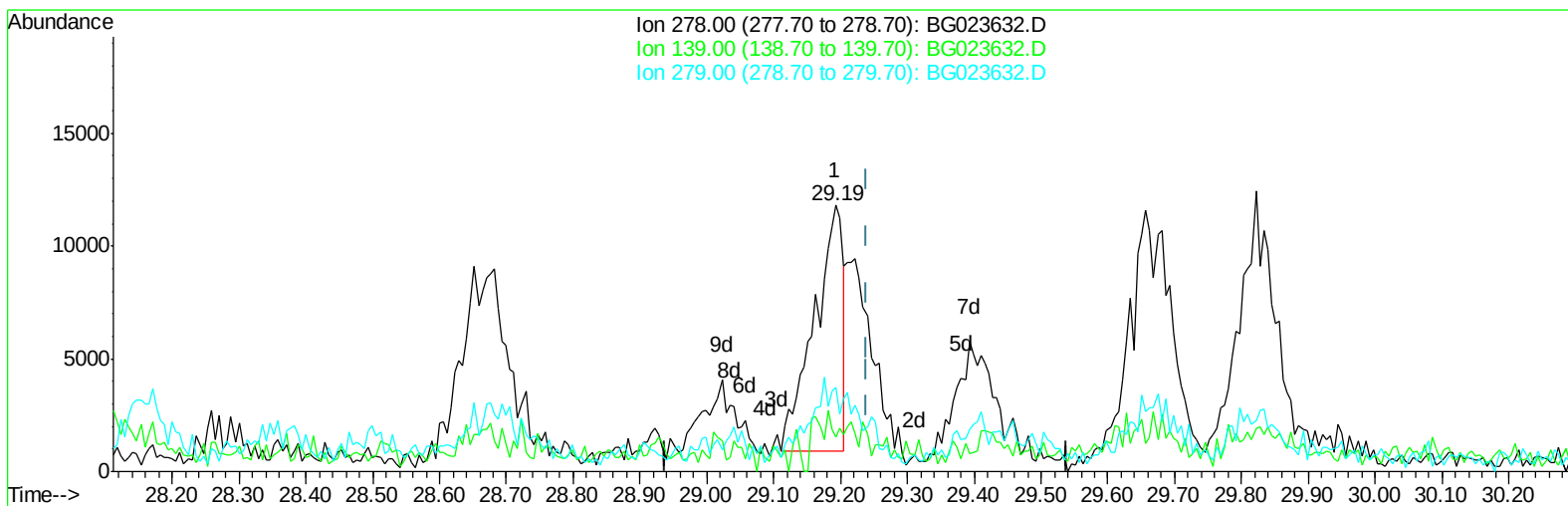
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Quant Time: Aug 12 05:04:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM



TIC: BG023632.D

(90) Dibenzo(a,h)anthracene

29.193min (-0.046) 0.52ng/ul

response 32618

Ion	Exp%	Act%
278.00	100	100
139.00	20.40	12.88#
279.00	23.90	31.71#
0.00	0.00	0.00

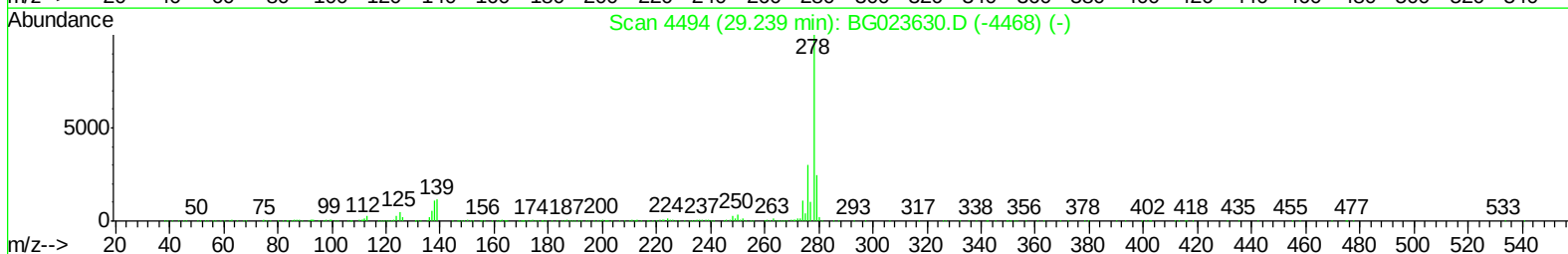
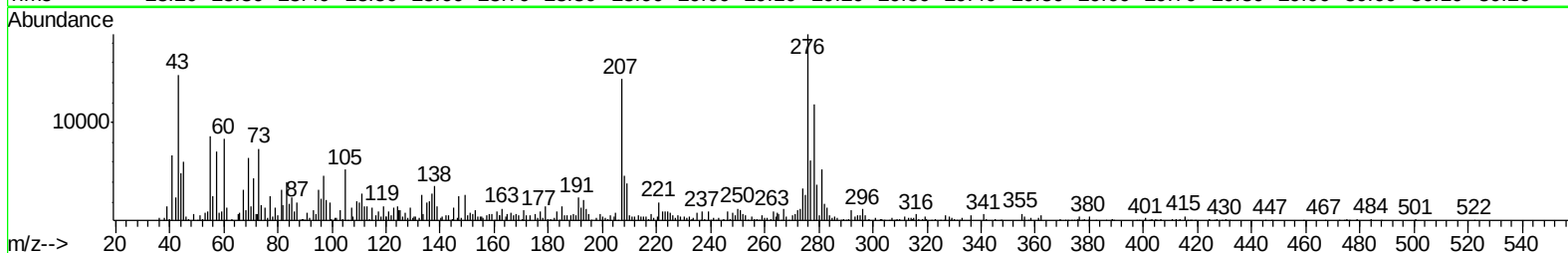
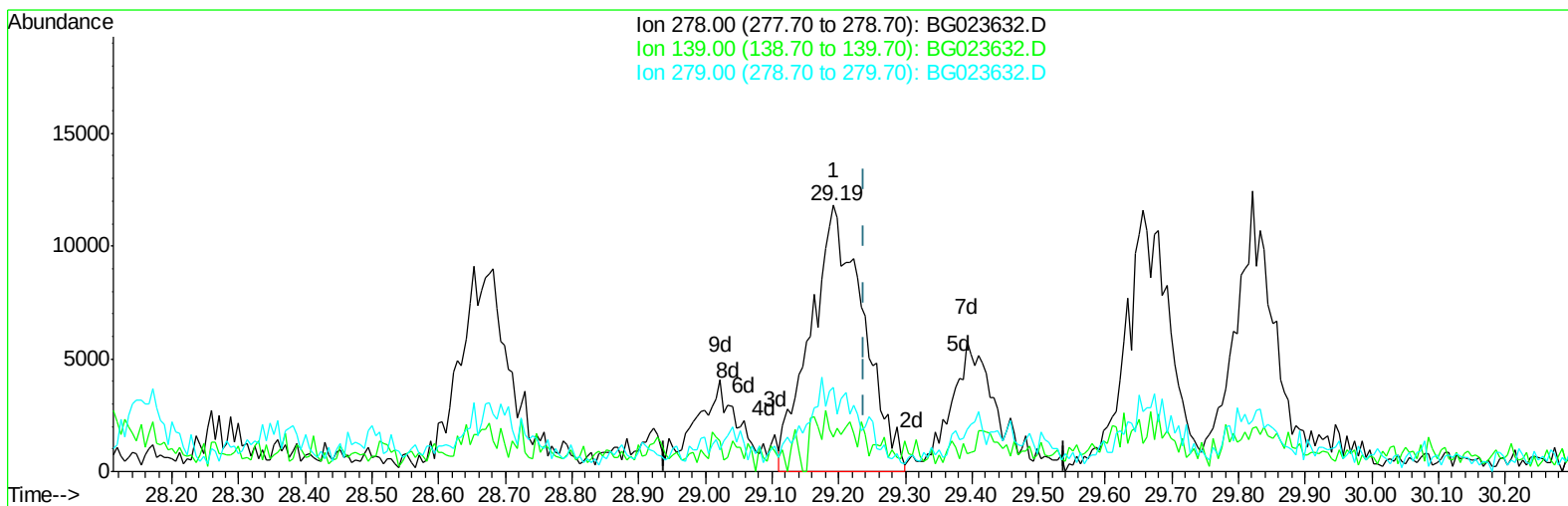
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 05:04:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration



TIC: BG023632.D

(90) Dibenzo(a,h)anthracene

29.193min (-0.046) 1.04ng/ul m

response 64861

Ion	Exp%	Act%
278.00	100	100
139.00	20.40	12.88#
279.00	23.90	31.71#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
 Data File : BG023632.D
 Acq On : 11 Aug 2016 21:34
 Operator : UM/SJ
 Sample : H4360-17 4X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PR001-SS003-2430-01

Manual Integrations
 APPROVED

sohil
 8/12/2016 5:55:57 PM

Quant Time: Aug 12 05:05:56 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Aug 12 04:34:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	157804	20.00	ng/ul	-0.02
18) Naphthalene-d8	10.95	136	733872	20.00	ng/ul	-0.02
35) Acenaphthene-d10	14.78	164	489084	20.00	ng/ul	-0.01
61) Phenanthrene-d10	17.55	188	1064697	20.00	ng/ul	-0.01
75) Chrysene-d12	21.87	240	1075809	20.00	ng/ul	-0.01
83) Perylene-d12	25.26	264	1131624	20.00	ng/ul	-0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	898	0.24	ng/uL	-0.01
5) Phenol-d5	7.27	99	54599	3.43	ng/ul	-0.02
7) Bis-(2-Chloroethyl)ether-d	7.42	67	36218	3.56	ng/ul	-0.02
9) 2-Chlorophenol-d4	7.64	132	37554	3.46	ng/ul	-0.02
13) 4-Methylphenol-d8	8.83	113	36832	2.97	ng/ul	-0.02
19) Nitrobenzene-d5	9.28	128	18229	3.15	ng/ul	-0.02
22) 2-Nitrophenol-d4	10.02	143	26343	3.97	ng/ul	-0.02
26) 2,4-Dichlorophenol-d3	10.58	165	42639	3.40	ng/ul	0.00
29) 4-Chloroaniline-d4	11.09	131	27721	1.89	ng/ul	-0.02
43) Dimethylphthalate-d6	14.18	166	149035	3.72	ng/ul	-0.01
46) Acenaphthylene-d8	14.48	160	171353	3.80	ng/ul	-0.01
51) 4-Nitrophenol-d4	15.03	143	19936m	2.92	ng/ul	0.02
57) Fluorene-d10	15.78	176	134722	3.64	ng/ul	-0.01
62) 4,6-Dinitro-2-methylphenol	15.91	200	9410	1.38	ng/ul	0.00
70) Anthracene-d10	17.64	188	190716	3.98	ng/ul	-0.02
76) Pyrene-d10	19.94	212	199231	3.66	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.03	264	186615	3.64	ng/ul	-0.02

Target Compounds

						Qvalue
44) Dimethylphthalate	14.22	163	65884	1.66	ng/ul#	96
58) Fluorene	15.83	166	44282	1.12	ng/ul	98
69) Phenanthrene	17.59	178	516655	9.37	ng/ul	98
71) Anthracene	17.68	178	129957m	2.31	ng/ul	
72) Carbazole	17.96	167	50945	1.12	ng/ul#	93
74) Fluoranthene	19.61	202	678436	12.02	ng/ul#	90
77) Pyrene	19.97	202	630975	9.49	ng/ul	94
80) Benzo(a)anthracene	21.85	228	363322	6.00	ng/ul	97
82) Chrysene	21.92	228	344883	6.26	ng/ul	96
85) Benzo(b)fluoranthene	24.18	252	411511	6.39	ng/ul#	97
86) Benzo(k)fluoranthene	24.25	252	142688m	2.25	ng/ul	
88) Benzo(a)pyrene	25.10	252	323034m	5.20	ng/ul	
89) Indeno(1,2,3-cd)pyrene	29.15	276	200908	2.75	ng/ul#	85
90) Dibenzo(a,h)anthracene	29.19	278	64861m	1.04	ng/ul	
91) Benzo(g,h,i)perylene	30.38	276	177143m	2.93	ng/ul	

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

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023632.D
Acq On : 11 Aug 2016 21:34
Operator : UM/SJ
Sample : H4360-17 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS003-2430-01

Manual Integrations
APPROVED

sohil
8/12/2016 5:55:57 PM

Quant Time: Aug 12 05:05:56 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Aug 12 04:34:52 2016
Response via : Initial Calibration

