

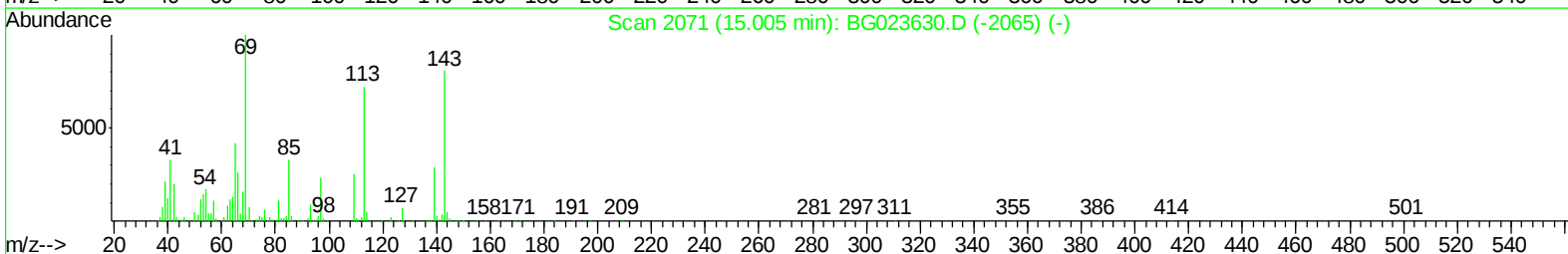
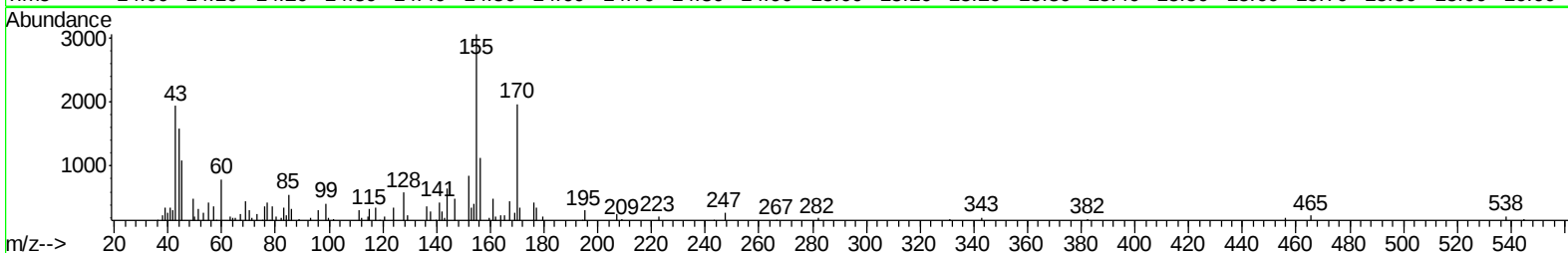
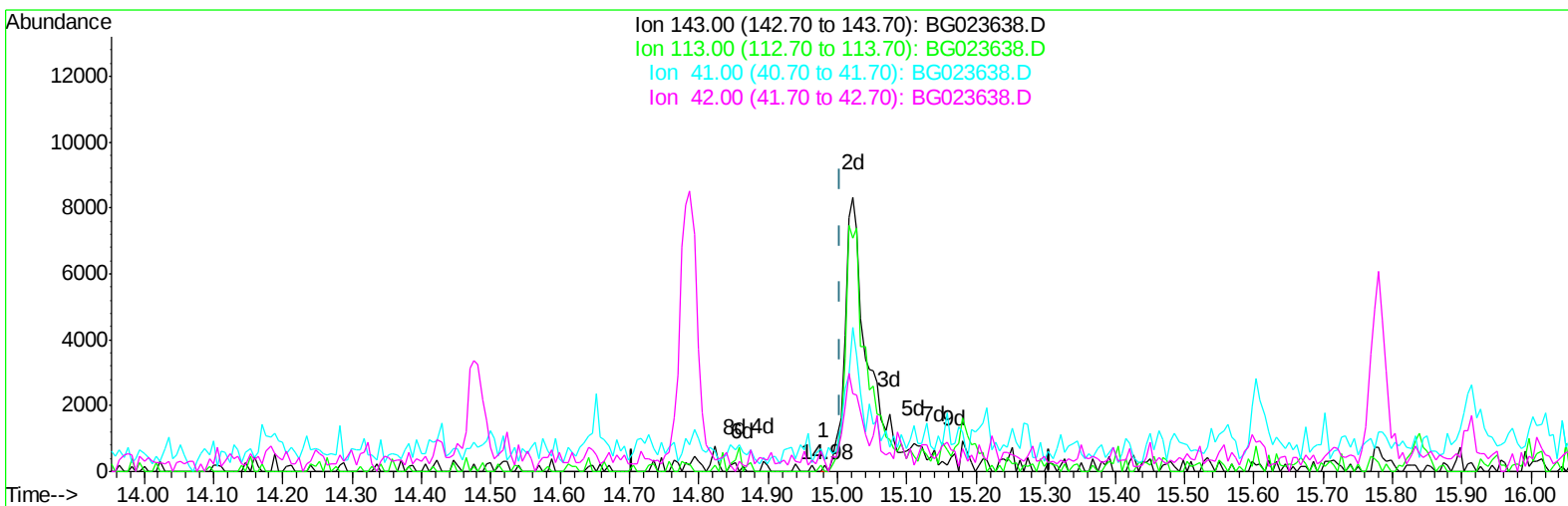
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Quant Time: Aug 12 04:37:20 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
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TIC: BG023638.D

(51) 4-Nitrophenol-d4 (S)
14.981min (-0.024) 0.01ng/ul

response 69

Ion	Exp%	Act%
143.00	100	100
113.00	53.50	0.00#
41.00	26.90	177.44#
42.00	16.10	161.54#

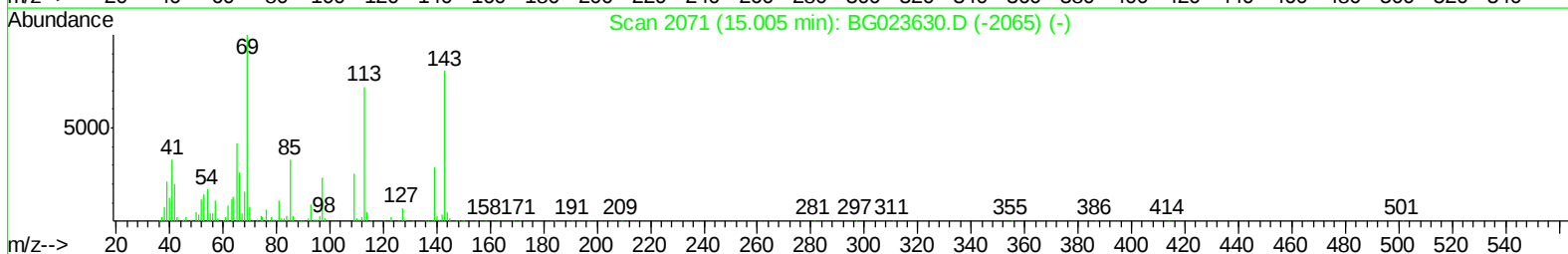
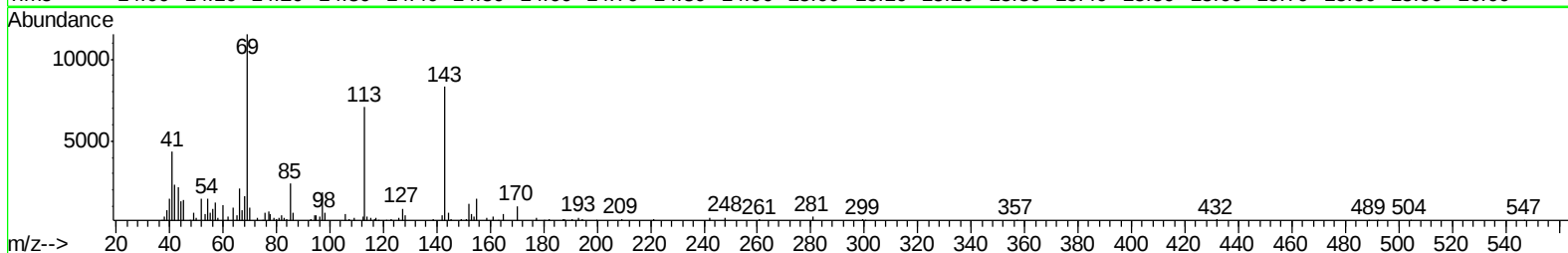
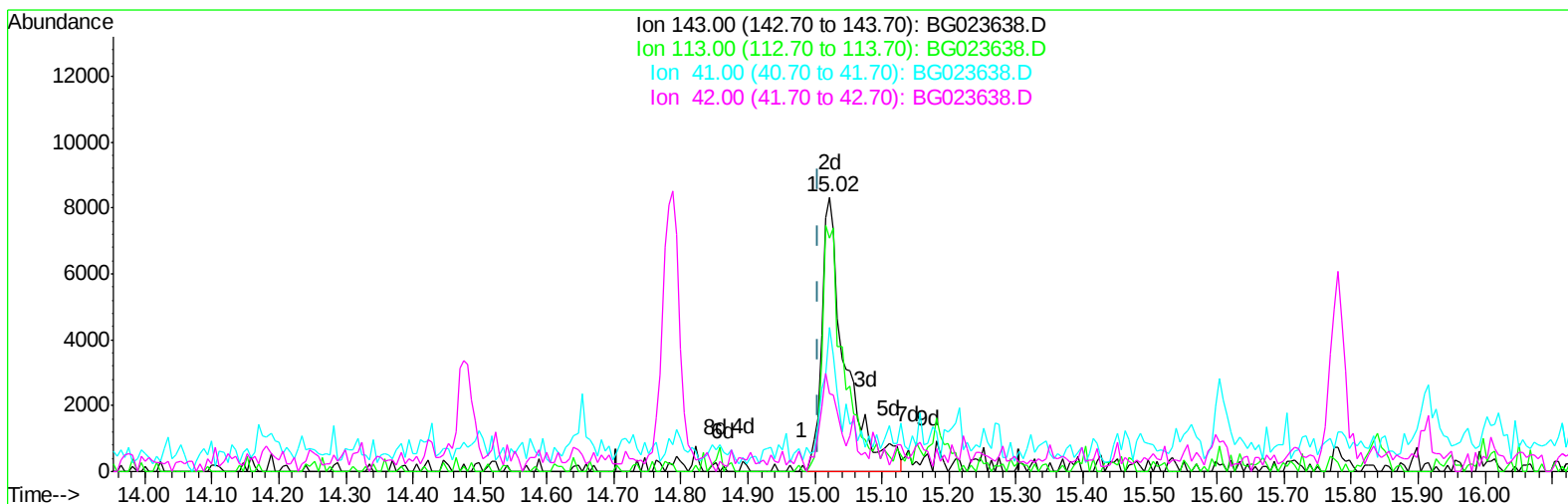
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Quant Time: Aug 12 04:37:20 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
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TIC: BG023638.D

(51) 4-Nitrophenol-d4 (S)

15.022min (+0.017) 2.88ng/ul m

response 20483

Ion	Exp%	Act%
143.00	100	100
113.00	53.50	84.98#
41.00	26.90	52.32#
42.00	16.10	28.43#

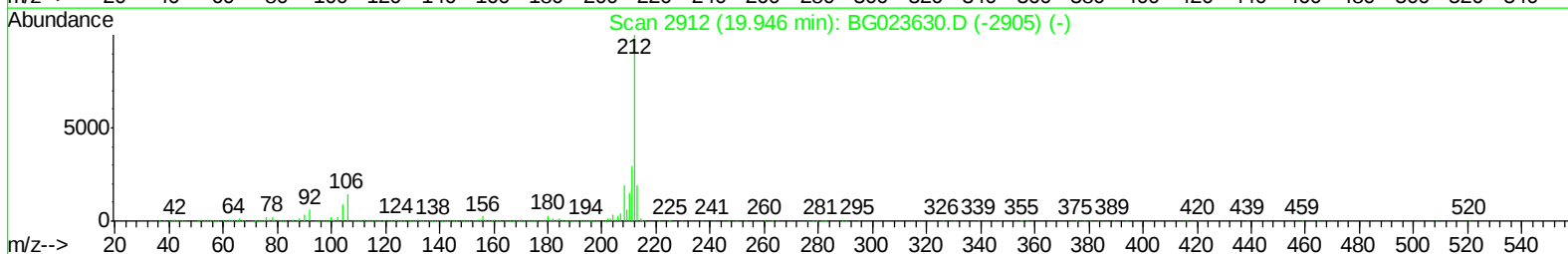
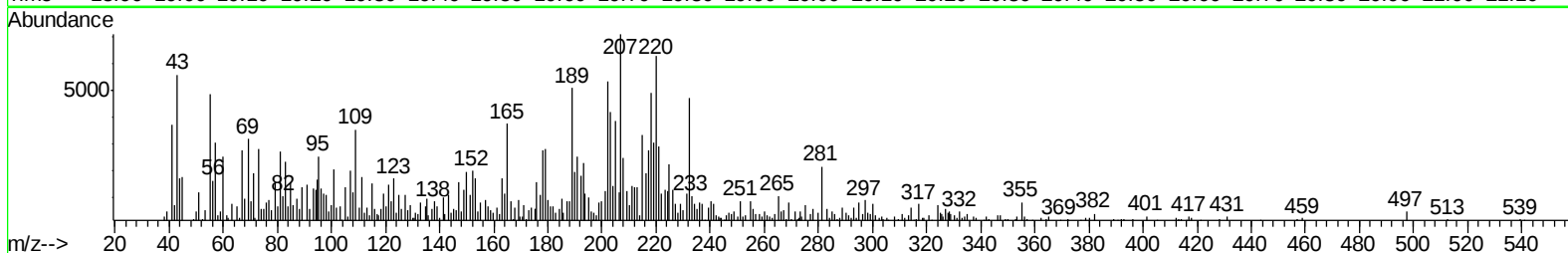
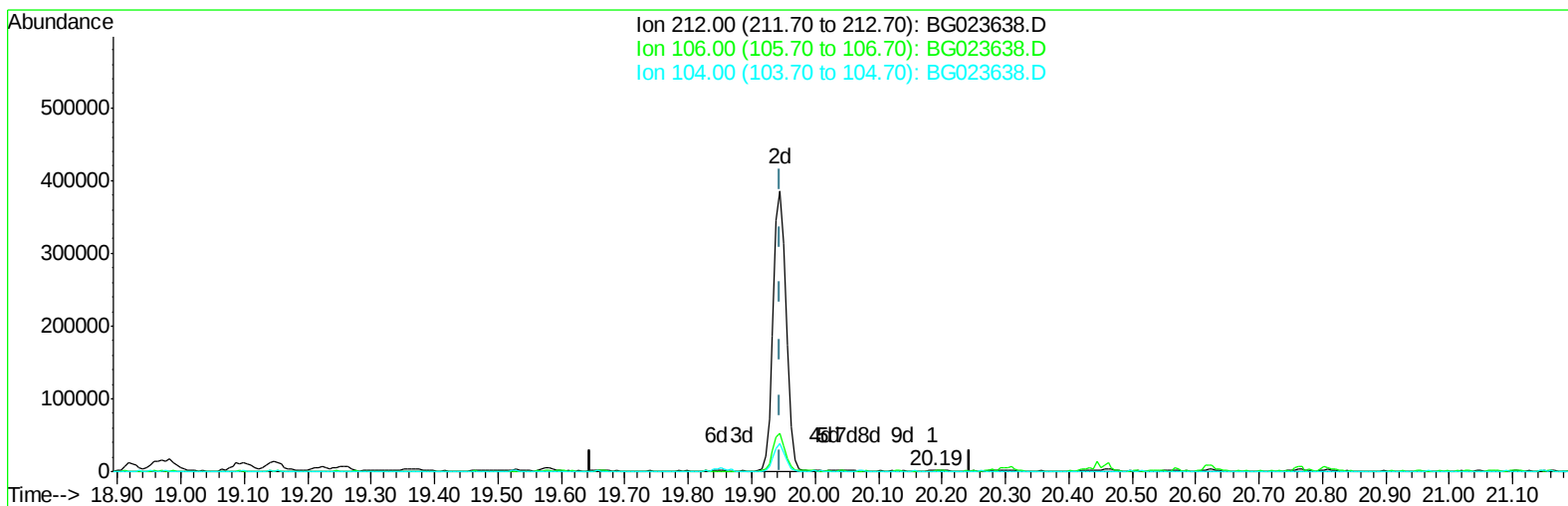
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration



TIC: BG023638.D

(76) Pyrene-d10 (S)

20.186min (+0.240) 0.01ng/ul

response 629

Ion	Exp%	Act%
212.00	100	100
106.00	18.40	20.30
104.00	11.70	11.95
0.00	0.00	0.00

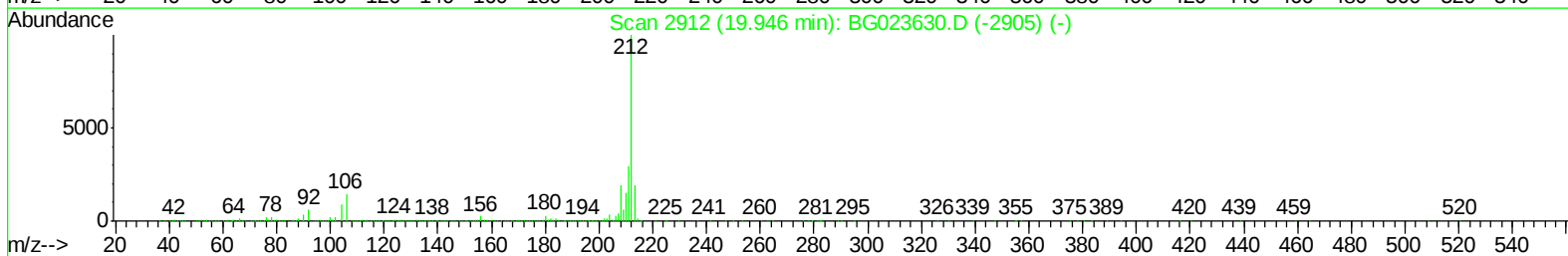
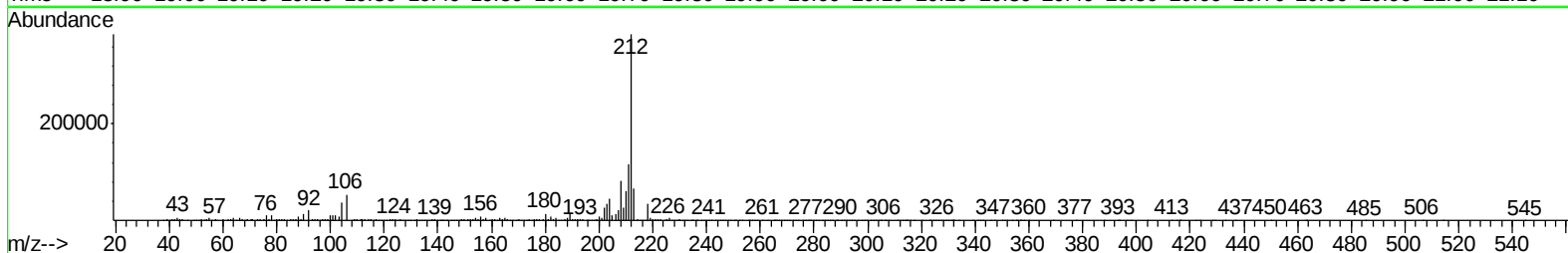
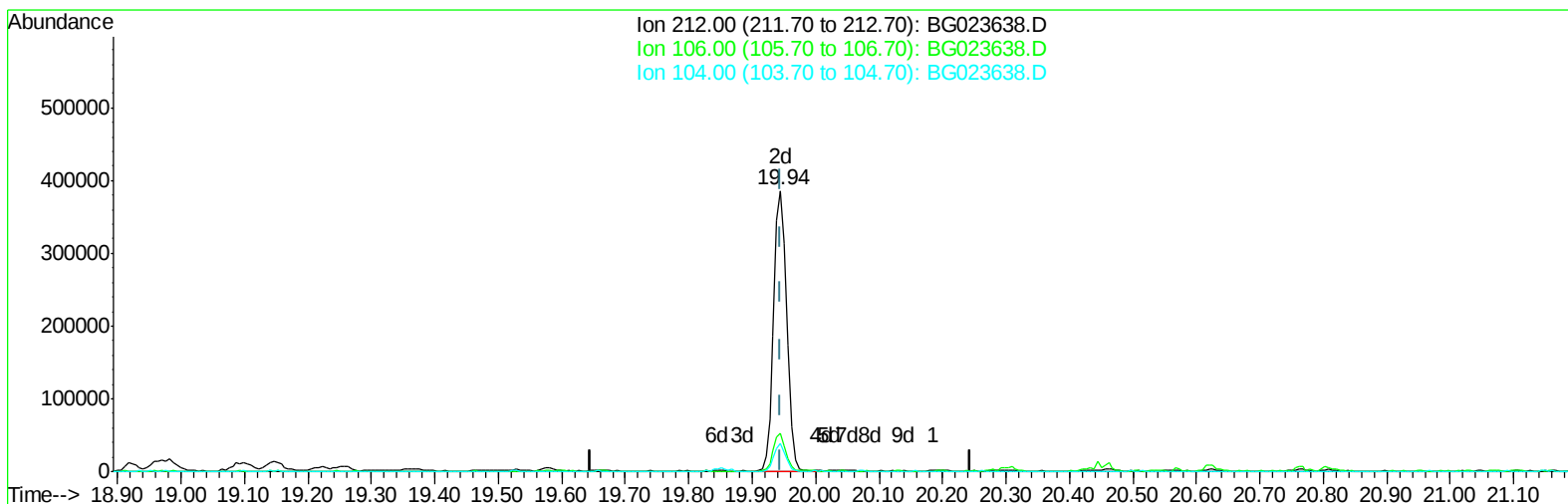
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 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: BG023638.D

(76) Pyrene-d10 (S)

19.945min (-0.001) 9.63ng/ul m

response 562368

Ion	Exp%	Act%
212.00	100	100
106.00	18.40	13.77#
104.00	11.70	9.97
0.00	0.00	0.00

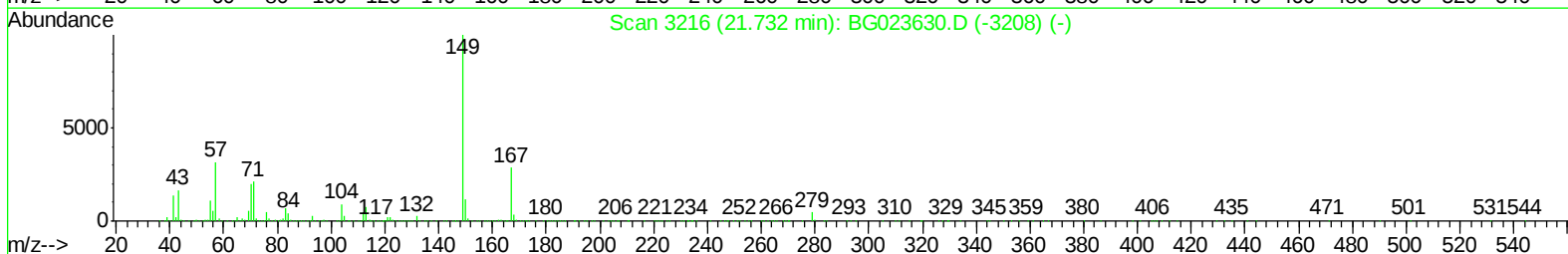
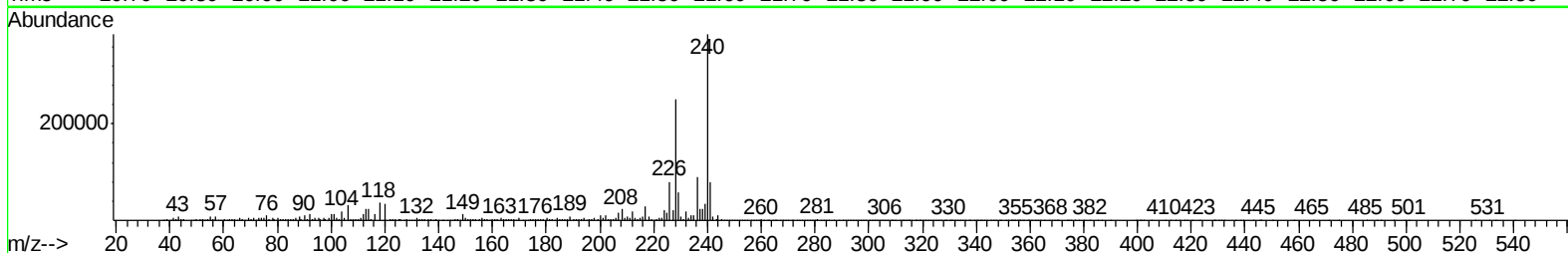
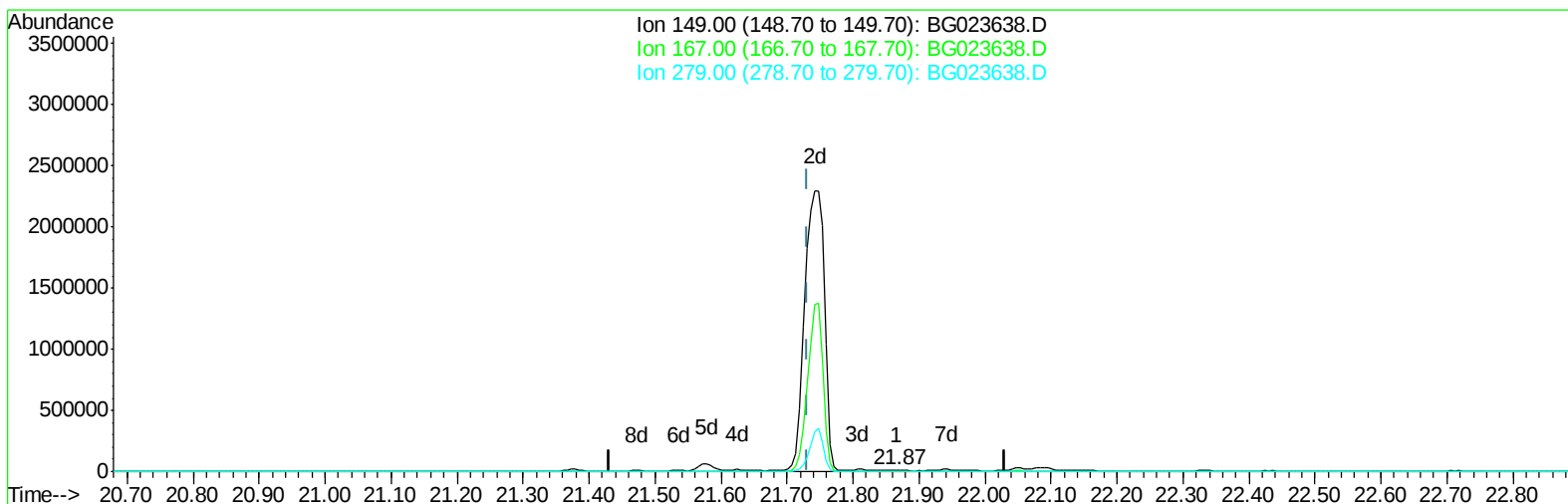
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
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TIC: BG023638.D

(81) Bis(2-ethylhexyl)phthalate

21.866min (+0.134) 0.36ng/ul

response 13134

Ion	Exp%	Act%
149.00	100	100
167.00	27.40	27.27
279.00	3.60	4.00
0.00	0.00	0.00

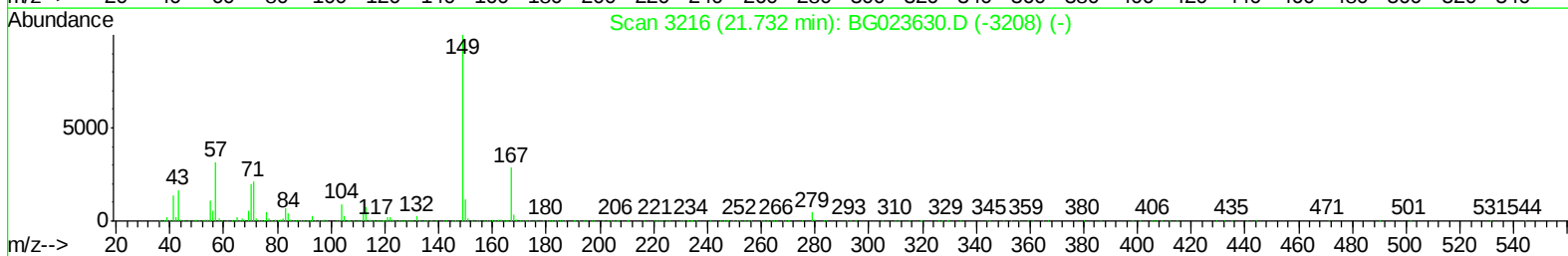
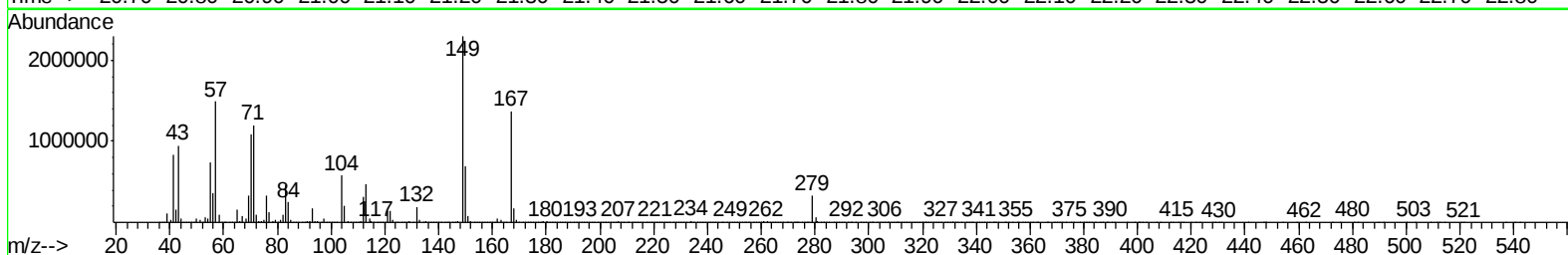
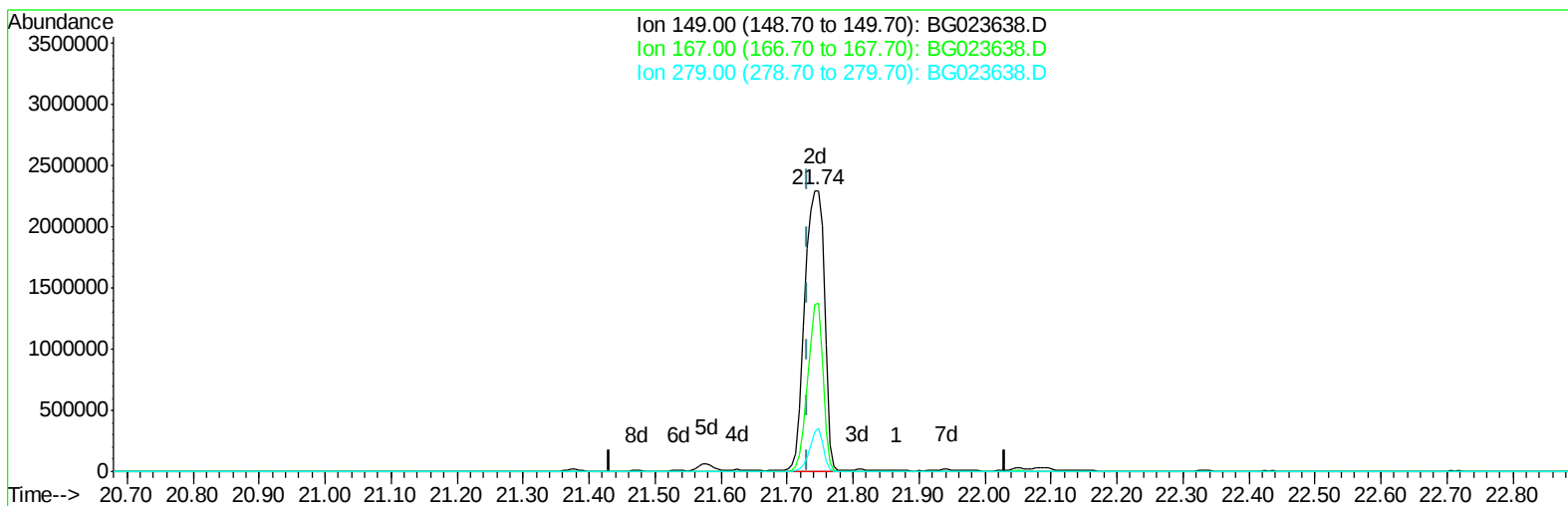
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 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: BG023638.D

(81) Bis(2-ethylhexyl)phthalate

21.742min (+0.011) 133.87ng/ul m

response 4870093

Ion	Exp%	Act%
149.00	100	100
167.00	27.40	59.66#
279.00	3.60	14.31#
0.00	0.00	0.00

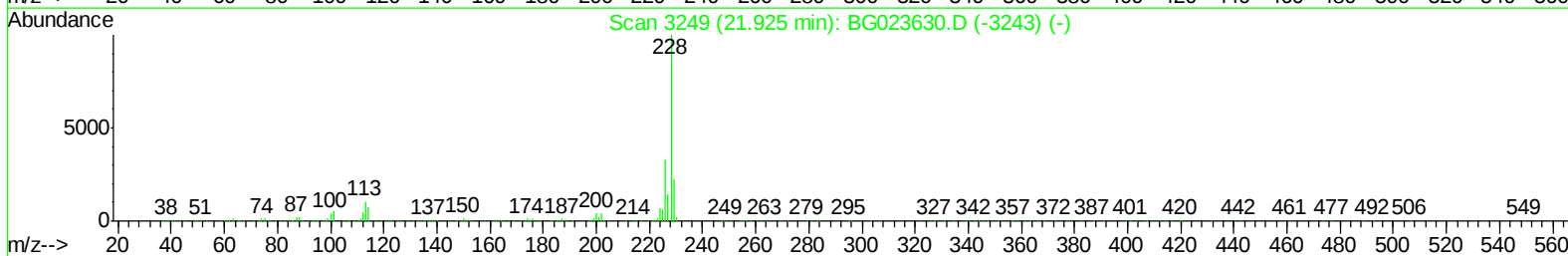
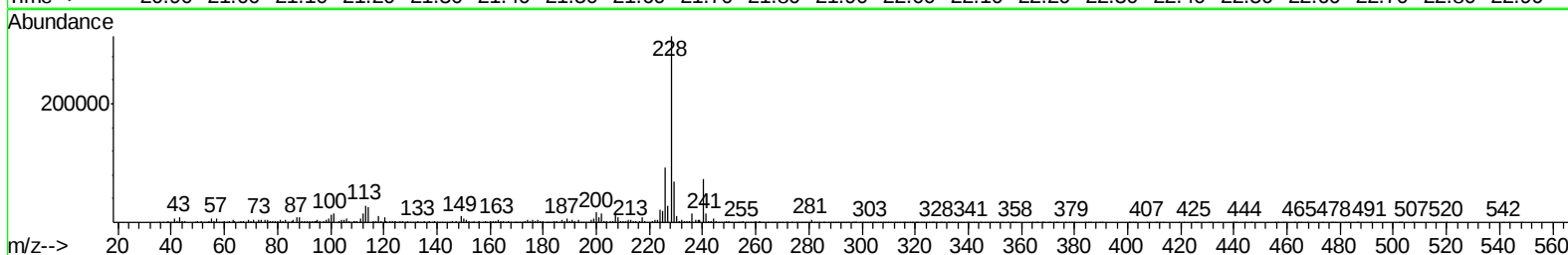
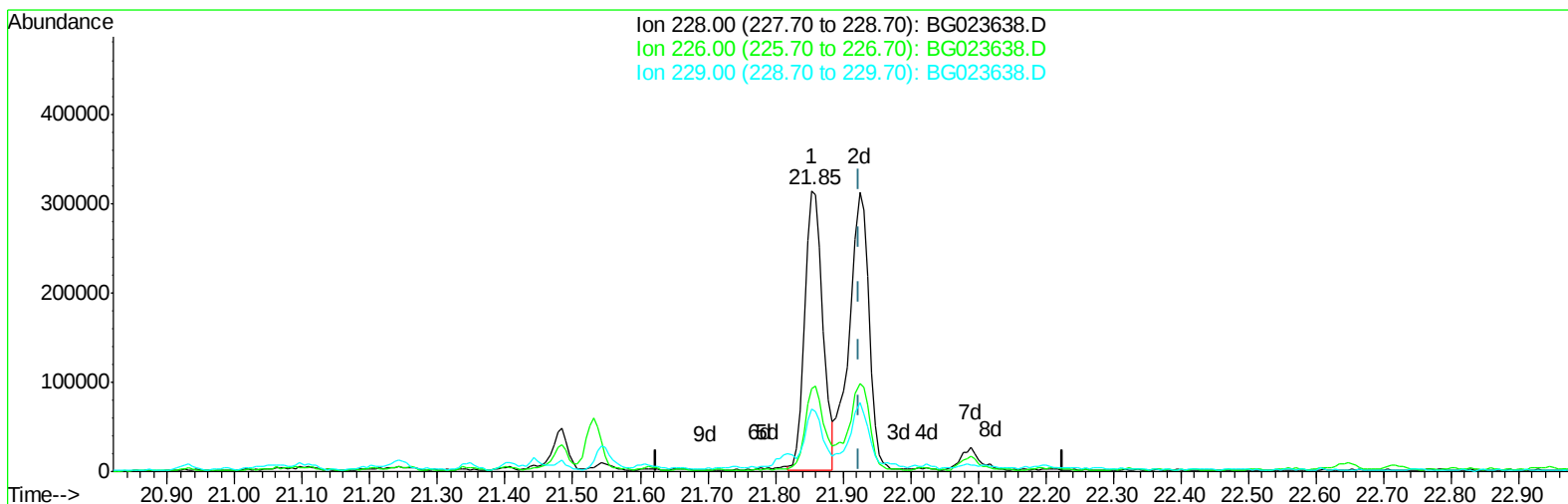
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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Manual Integrations
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Quant Time: Aug 12 04:37:20 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
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TIC: BG023638.D

(82) Chrysene

21.854min (-0.071) 9.94ng/ul

response 587138

Ion	Exp%	Act%
228.00	100	100
226.00	30.30	29.78
229.00	18.80	22.15
0.00	0.00	0.00

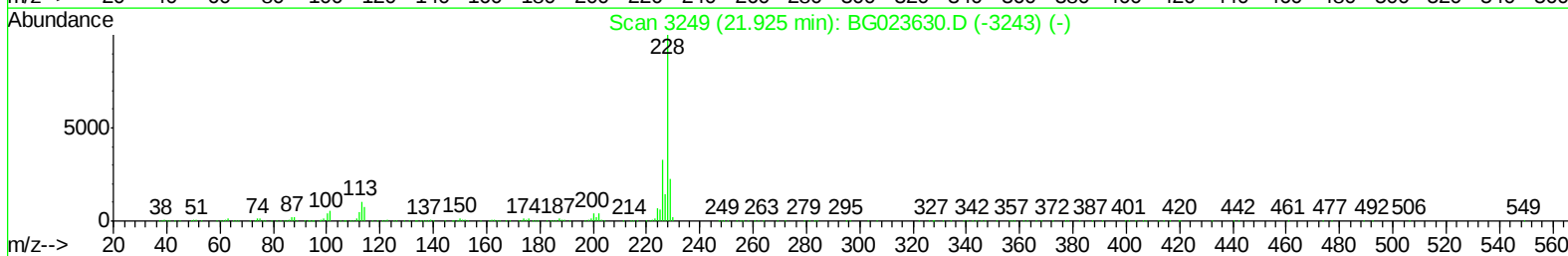
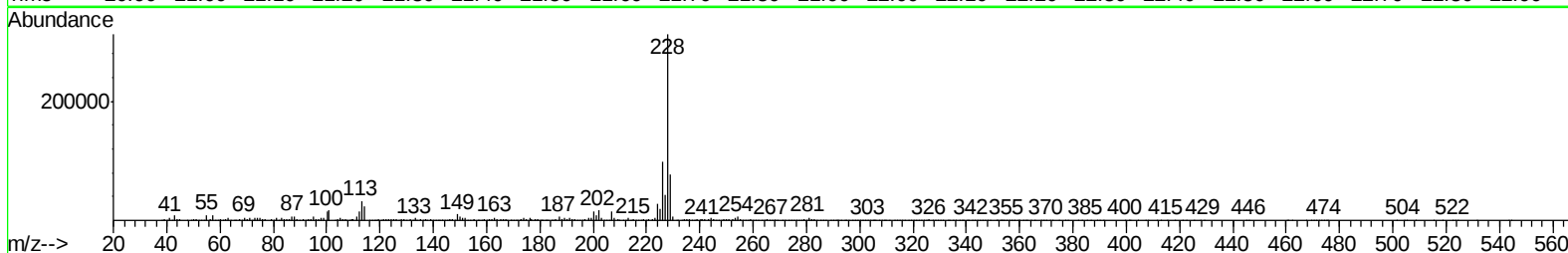
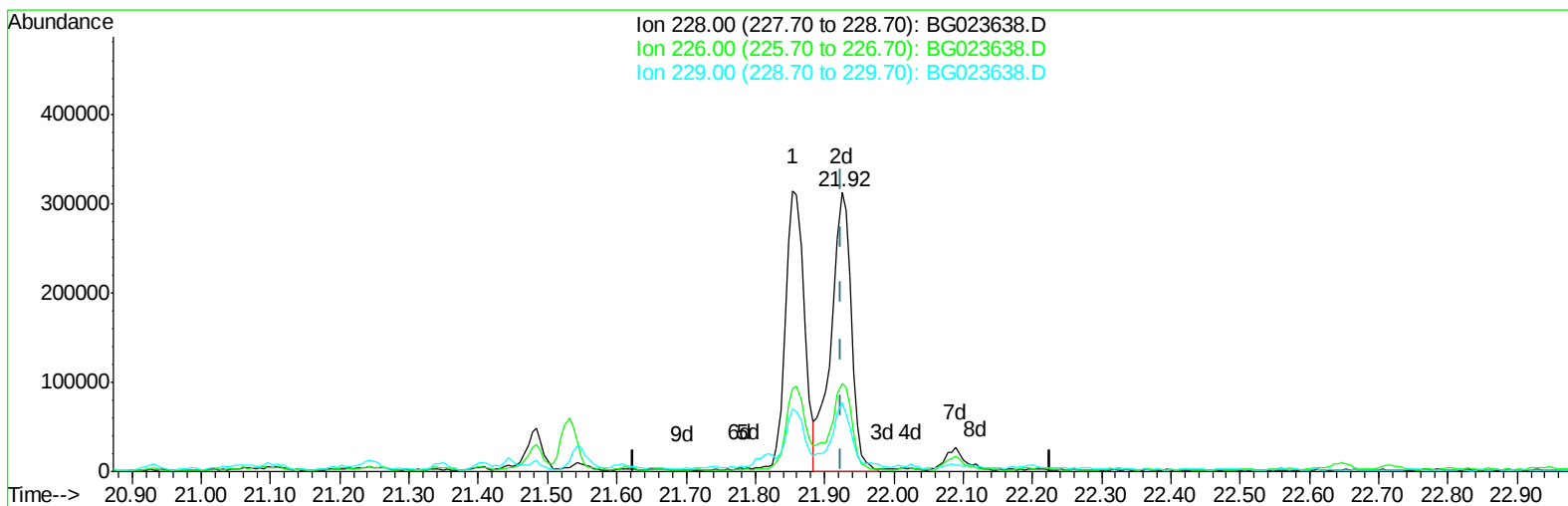
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 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: BG023638.D

(82) Chrysene

21.924min (-0.001) 10.83ng/ul m

response 640037

Ion	Exp%	Act%
228.00	100	100
226.00	30.30	31.60
229.00	18.80	24.53#
0.00	0.00	0.00

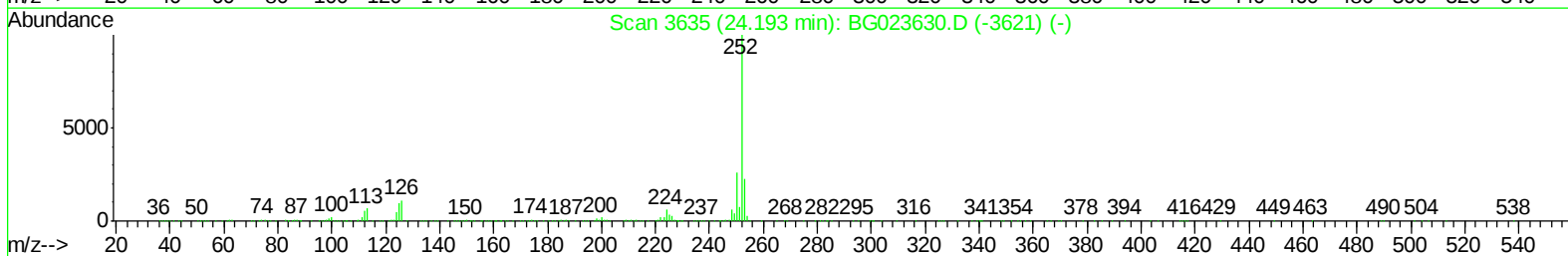
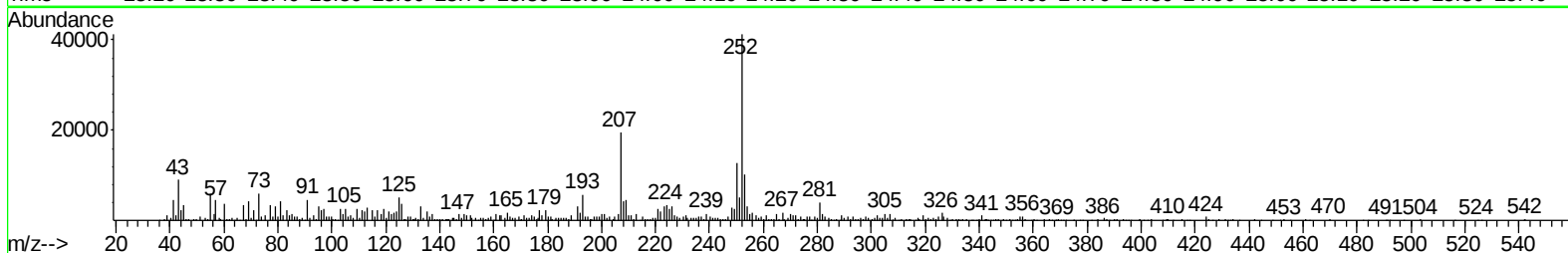
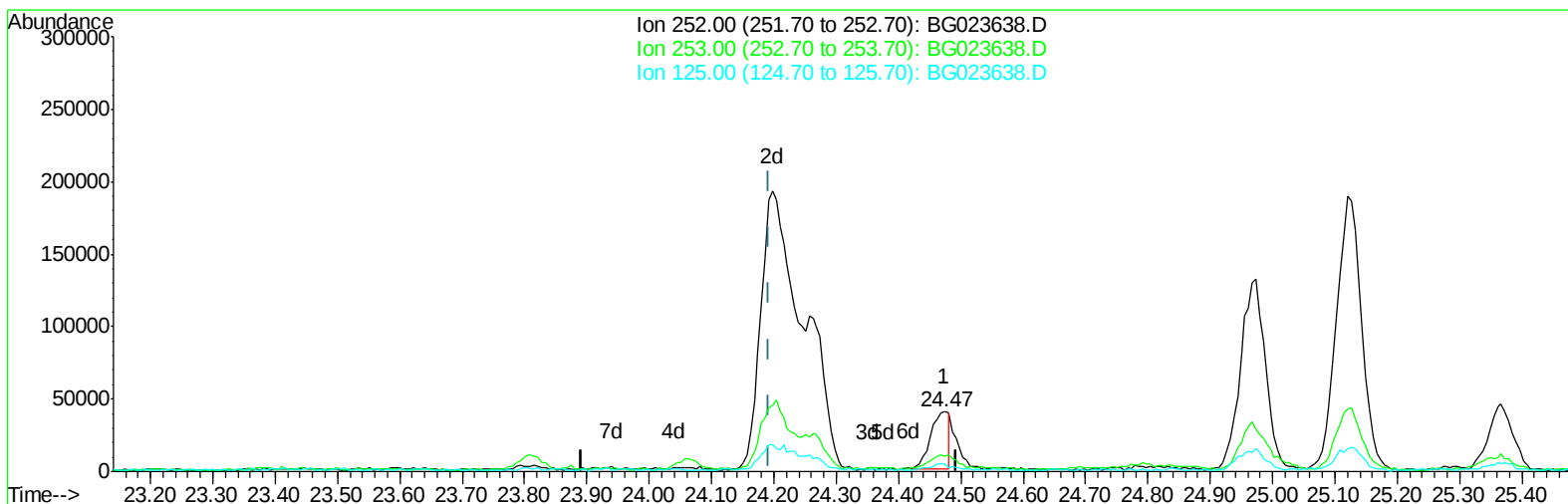
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 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: BG023638.D

(85) Benzo(b)fluoranthene

24.474min (+0.281) 1.20ng/ul

response 79648

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	25.23
125.00	13.50	12.81
0.00	0.00	0.00

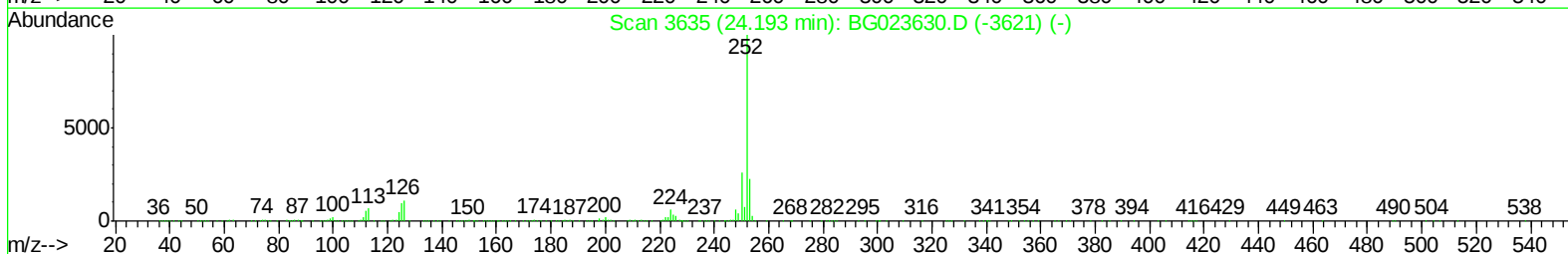
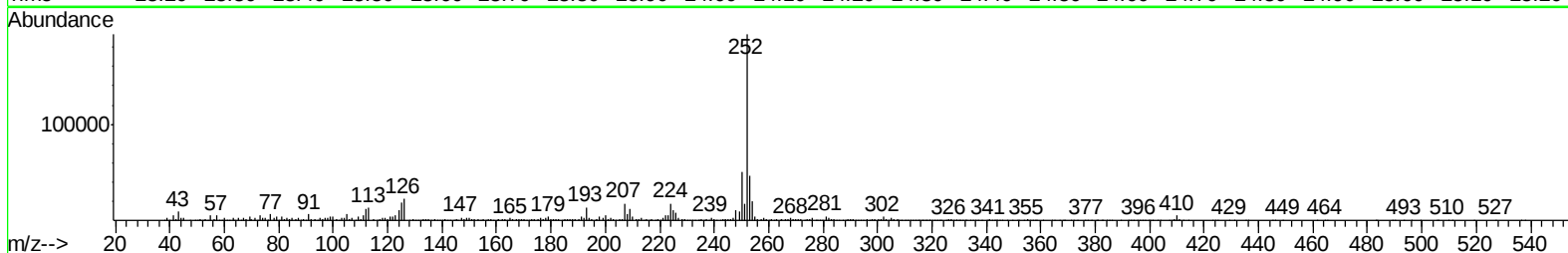
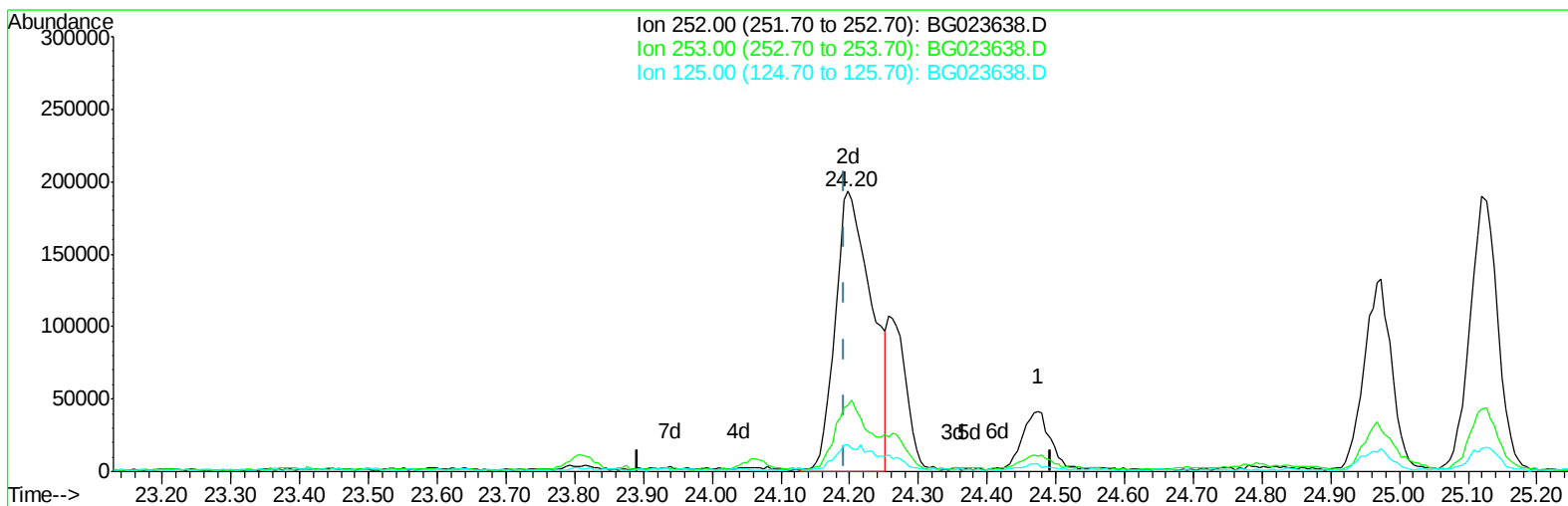
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 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: BG023638.D

(85) Benzo(b)fluoranthene

24.198min (+0.005) 10.77ng/ul m

response 712610

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	23.76
125.00	13.50	9.74#
0.00	0.00	0.00

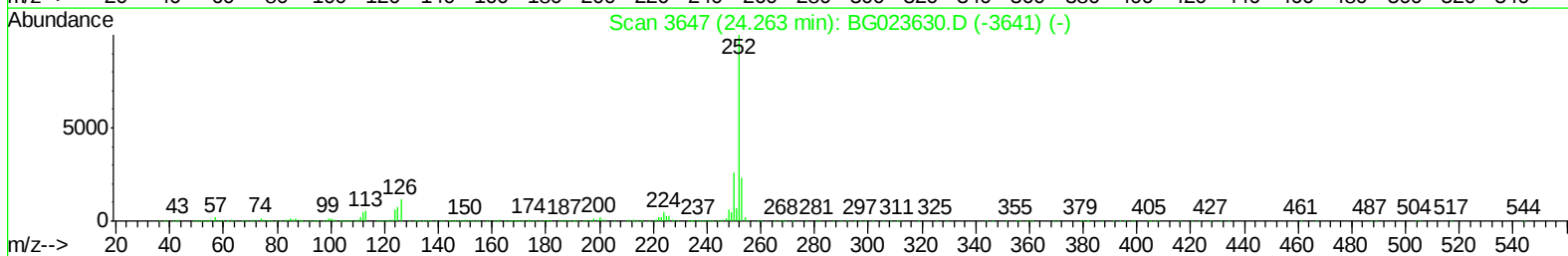
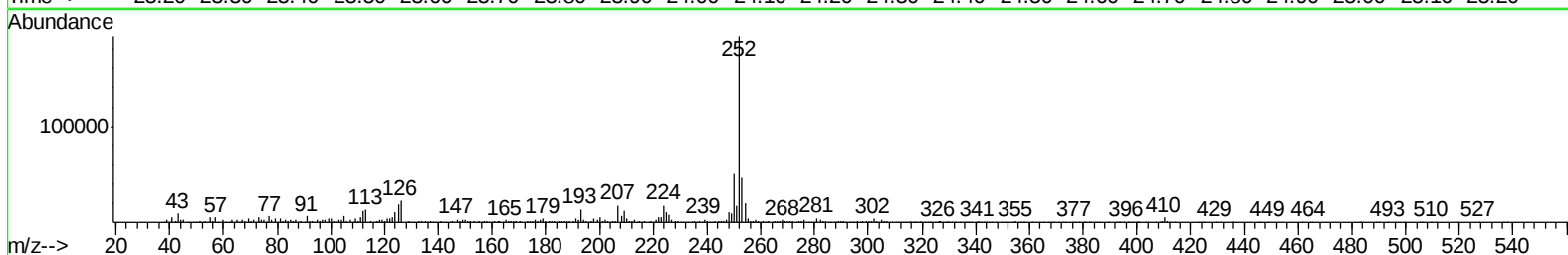
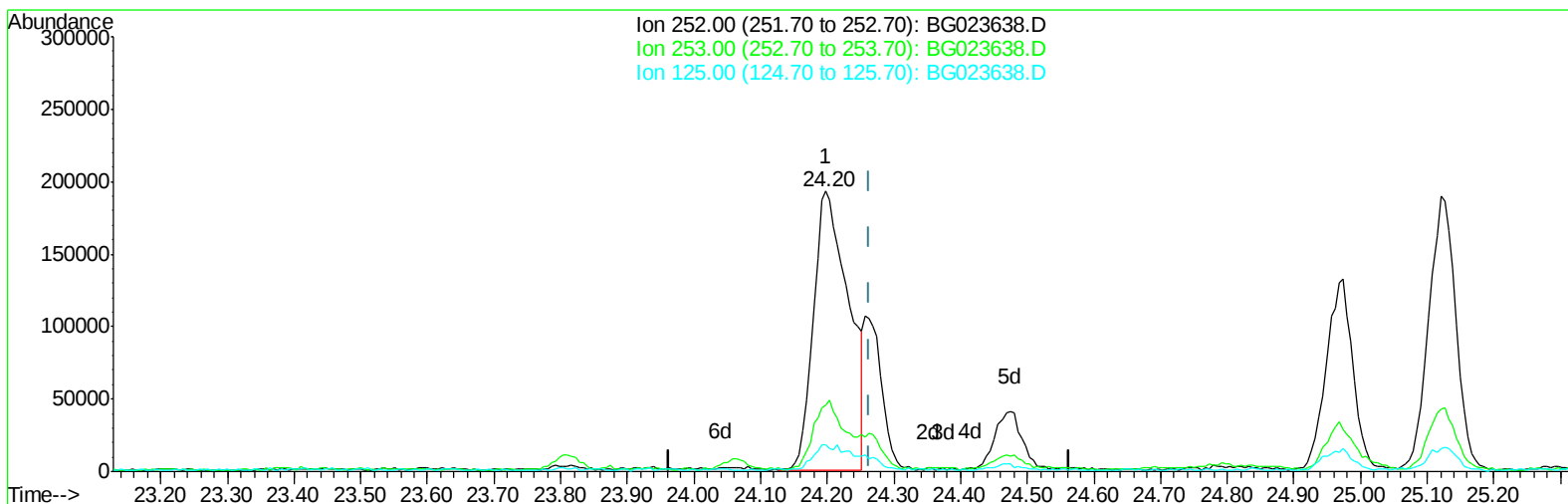
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration



TIC: BG023638.D

(86) Benzo(k)fluoranthene

24.198min (-0.065) 10.80ng/ul

response 703535

Ion	Exp%	Act%
252.00	100	100
253.00	19.70	23.76#
125.00	13.30	9.74#
0.00	0.00	0.00

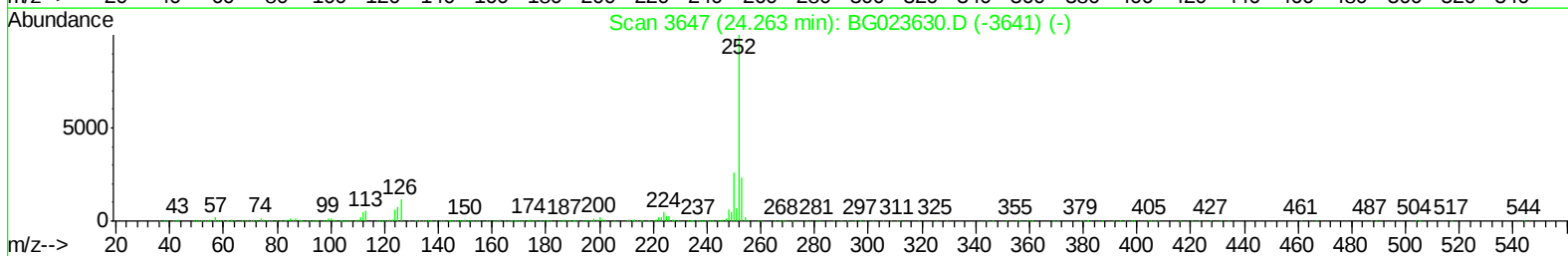
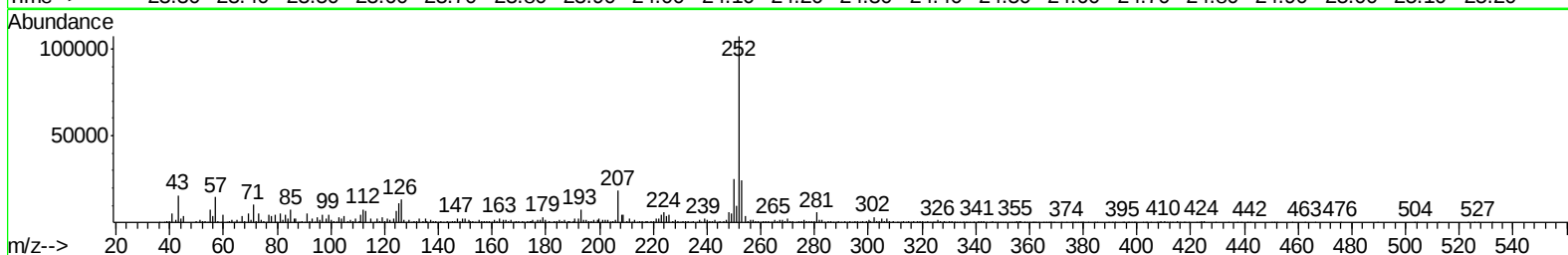
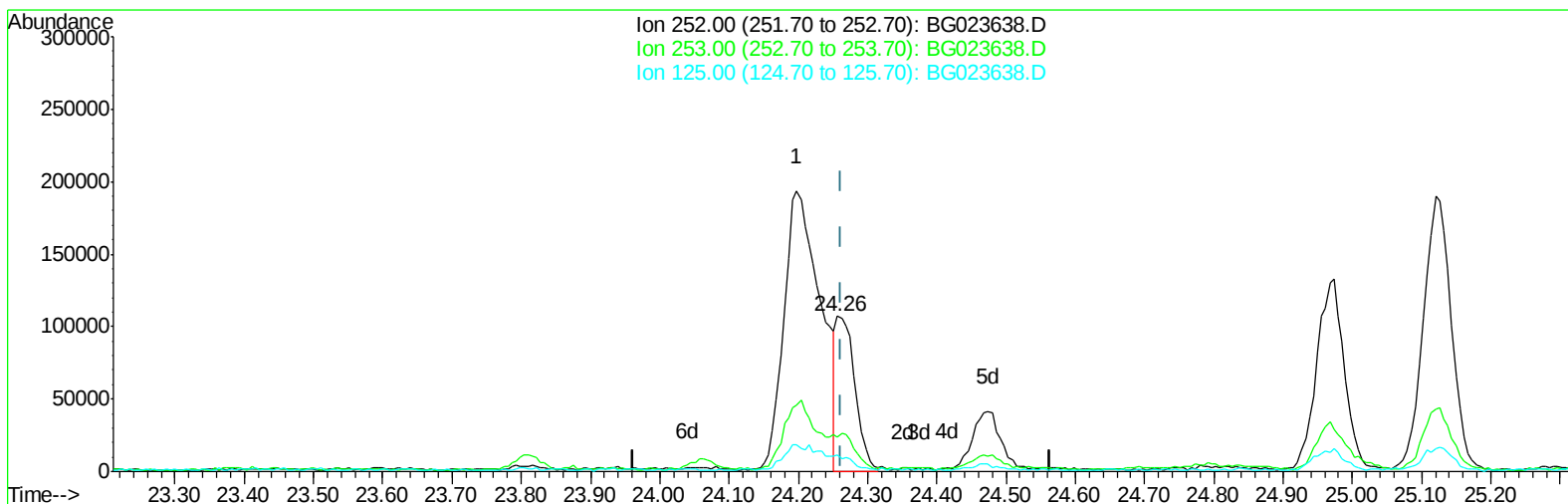
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Quant Time: Aug 12 04:37:20 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
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Manual Integrations
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TIC: BG023638.D

(86) Benzo(k)fluoranthene

24.257min (-0.007) 3.11ng/ul m

response 202508

Ion	Exp%	Act%
252.00	100	100
253.00	19.70	22.53
125.00	13.30	10.62#
0.00	0.00	0.00

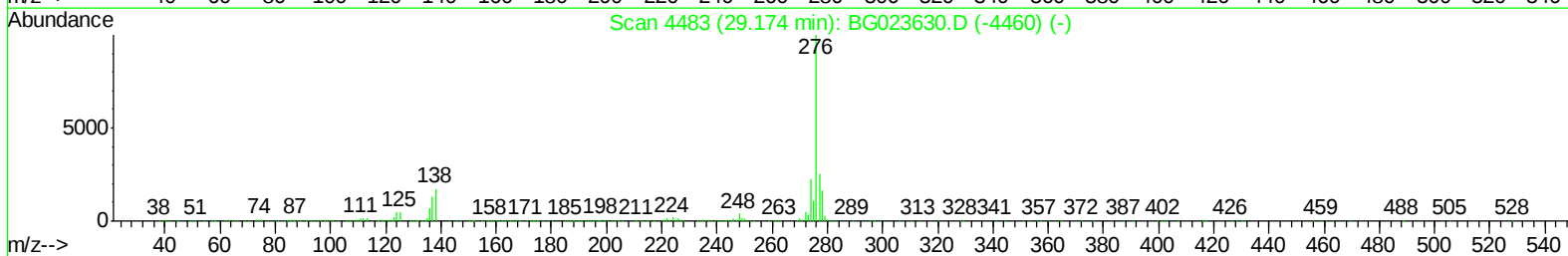
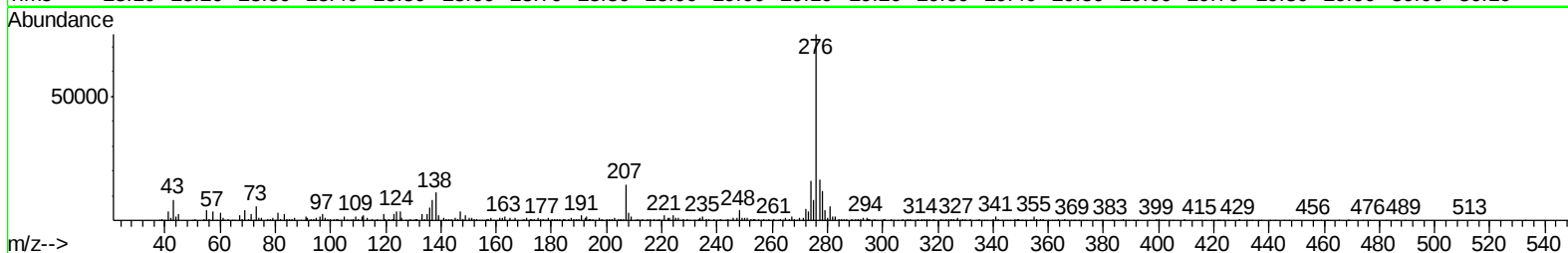
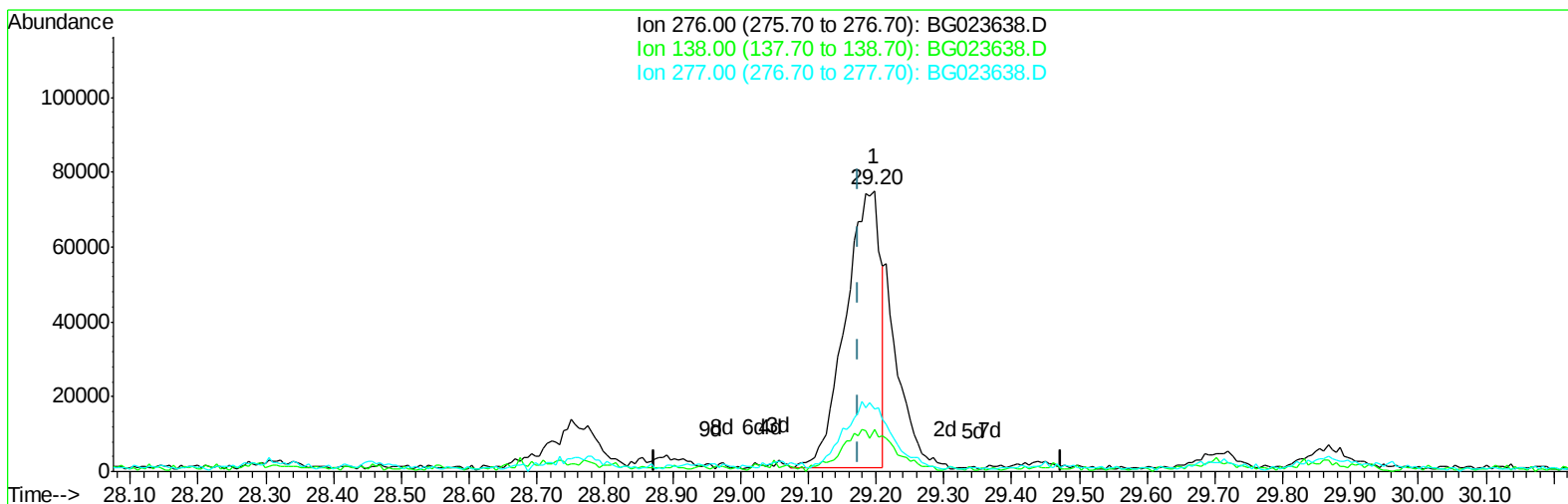
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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Manual Integrations
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Quant Time: Aug 12 04:37:20 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration



TIC: BG023638.D

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

29.197min (+0.023) 3.50ng/ul

response 262435

Ion	Exp%	Act%
276.00	100	100
138.00	26.00	15.04#
277.00	22.00	22.40
0.00	0.00	0.00

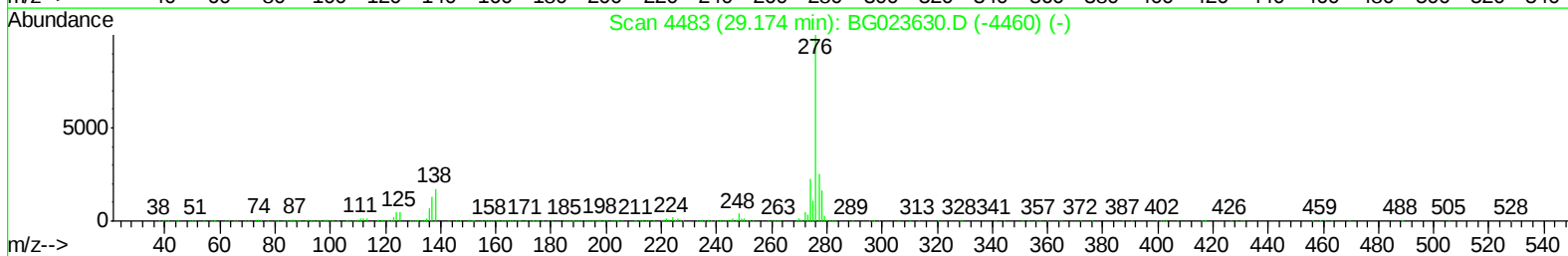
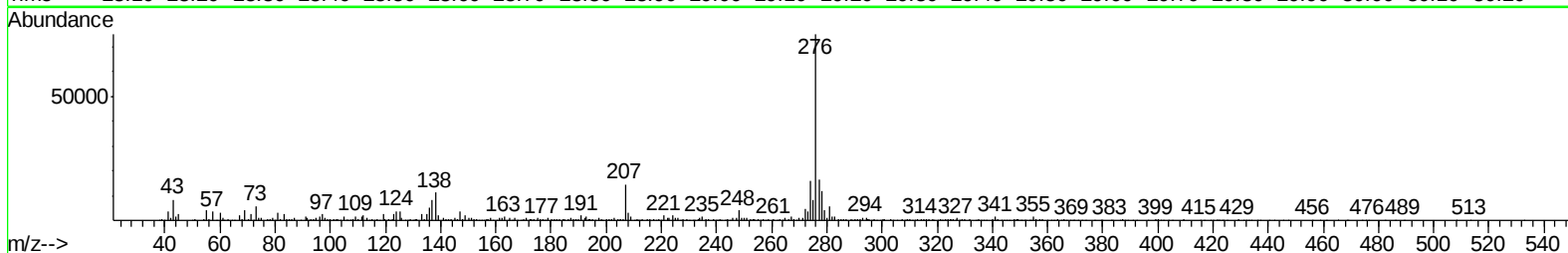
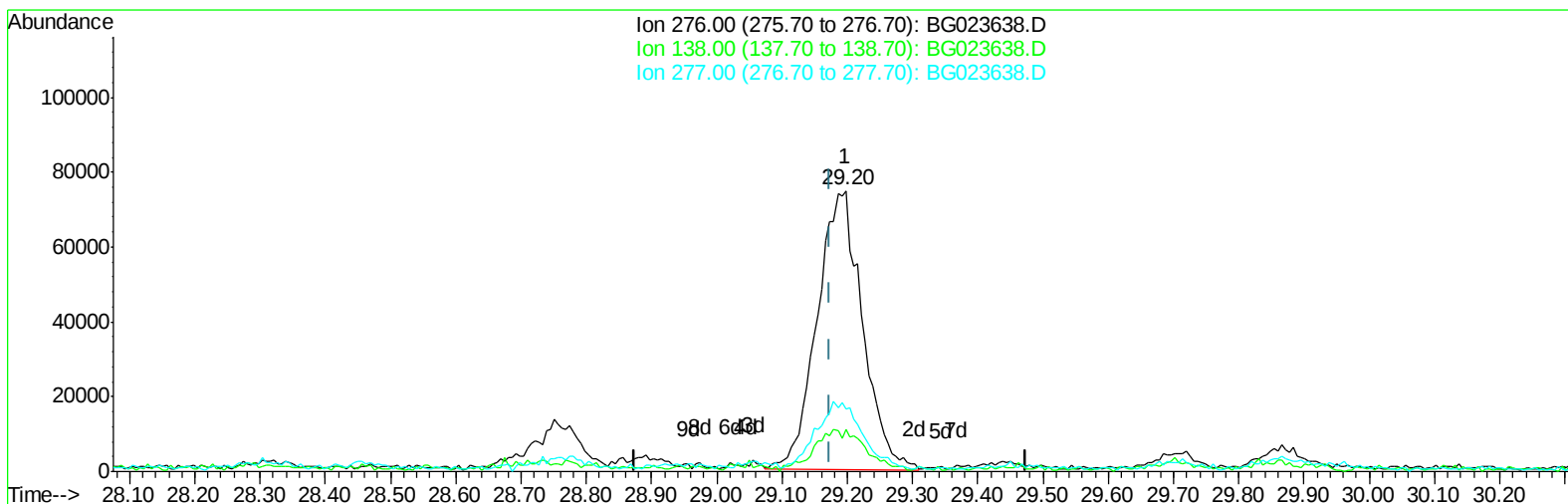
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023638.D
Acq On : 12 Aug 2016 1:20
Operator : UM/SJ
Sample : H4360-21 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS004-0612-01

Manual Integrations
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Quant Time: Aug 12 04:37:20 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: BG023638.D

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

29.197min (+0.023) 4.71ng/ul m

response 353359

Ion	Exp%	Act%
276.00	100	100
138.00	26.00	15.04#
277.00	22.00	22.40
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
 Data File : BG023638.D
 Acq On : 12 Aug 2016 1:20
 Operator : UM/SJ
 Sample : H4360-21 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PR001-SS004-0612-01

Manual Integrations
 APPROVED

sohil
 8/12/2016 5:56:18 PM

Quant Time: Aug 12 05:50:24 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	169589	20.00	ng/ul	-0.02
18) Naphthalene-d8	10.95	136	760483	20.00	ng/ul	-0.02
35) Acenaphthene-d10	14.79	164	508381	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.55	188	1140077	20.00	ng/ul	0.00
75) Chrysene-d12	21.88	240	1153869	20.00	ng/ul	0.00
83) Perylene-d12	25.29	264	1163428	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	2846	0.71	ng/uL	0.00
5) Phenol-d5	7.27	99	64897	3.80	ng/ul	-0.02
7) Bis-(2-Chloroethyl)ether-d	7.43	67	97945	8.95	ng/ul	-0.02
9) 2-Chlorophenol-d4	7.64	132	75384	6.47	ng/ul	-0.02
13) 4-Methylphenol-d8	8.83	113	38671	2.90	ng/ul	-0.01
19) Nitrobenzene-d5	9.29	128	56218	9.38	ng/ul	-0.02
22) 2-Nitrophenol-d4	10.01	143	67373	9.79	ng/ul	-0.02
26) 2,4-Dichlorophenol-d3	10.58	165	97701	7.52	ng/ul	0.00
29) 4-Chloroaniline-d4	11.09	131	73602	4.83	ng/ul	-0.01
43) Dimethylphthalate-d6	14.18	166	404658	9.72	ng/ul	-0.01
46) Acenaphthylene-d8	14.48	160	473529	10.11	ng/ul	0.00
51) 4-Nitrophenol-d4	15.02	143	20483m	2.88	ng/ul	0.02
57) Fluorene-d10	15.78	176	365586	9.51	ng/ul	-0.01
62) 4,6-Dinitro-2-methylphenol	15.91	200	37919	5.18	ng/ul	0.00
70) Anthracene-d10	17.65	188	538727	10.49	ng/ul	-0.01
76) Pyrene-d10	19.94	212	562368m	9.63	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.05	264	528293	10.03	ng/ul	0.00

Target Compounds

						Qvalue
44) Dimethylphthalate	14.23	163	158575	3.85	ng/ul	96
47) Acenaphthylene	14.52	152	54743	1.12	ng/ul	95
49) Acenaphthene	14.85	153	34470	1.03	ng/ul	98
58) Fluorene	15.84	166	47171	1.14	ng/ul#	91
69) Phenanthrene	17.60	178	906854	15.36	ng/ul	98
71) Anthracene	17.68	178	158282	2.63	ng/ul	95
72) Carbazole	17.96	167	53449	1.10	ng/ul	98
74) Fluoranthene	19.61	202	1158020	19.16	ng/ul#	93
77) Pyrene	19.97	202	1245196	17.46	ng/ul#	93
80) Benzo(a)anthracene	21.85	228	584759	9.00	ng/ul	96
81) Bis(2-ethylhexyl)phthalate	21.74	149	4870093m	133.87	ng/ul	
82) Chrysene	21.92	228	640037m	10.83	ng/ul	
84) Di-n-octyl phthalate	23.01	149	86721	1.48	ng/ul	100
85) Benzo(b)fluoranthene	24.20	252	712610m	10.77	ng/ul	
86) Benzo(k)fluoranthene	24.26	252	202508m	3.11	ng/ul	
88) Benzo(a)pyrene	25.12	252	531935	8.33	ng/ul#	92
89) Indeno(1,2,3-cd)pyrene	29.20	276	353359m	4.71	ng/ul	
91) Benzo(g,h,i)perylene	30.41	276	315572	5.07	ng/ul#	86

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

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Operator  : UM/SJ
Sample    : H4360-21 2X
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ALS Vial  : 18    Sample Multiplier: 1

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Instrument :
BNA_G
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Manual Integrations APPROVED

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8/12/2016 5:56:18 PM

Quant Time: Aug 12 05:50:24 2016
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