

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG112316\
 Data File : BG024930.D
 Acq On : 24 Nov 2016 6:15
 Operator : UM/SJ
 Sample : H5701-08 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4WD5

Manual Integrations
 APPROVED

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 11/28/2016 4:50:35 PM

Quant Time: Nov 24 07:03:05 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG112316.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Nov 24 01:29:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.25	152	97641	20.00	ng/ul	0.00
18) Naphthalene-d8	11.08	136	418432	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.87	164	326576	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	693757m	20.00	ng/ul	0.00
75) Chrysene-d12	21.91	240	875540	20.00	ng/ul	0.00
83) Perylene-d12	25.34	264	911260	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.60	96	1104	0.54	ng/uL	0.00
5) Phenol-d5	7.39	99	37470	4.10	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.56	67	21146	3.82	ng/ul	0.00
9) 2-Chlorophenol-d4	7.78	132	25933	4.08	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	37393	4.81	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	15184	4.60	ng/ul	0.00
22) 2-Nitrophenol-d4	10.15	143	19773	5.13	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.68	165	46692	6.00	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	33102	3.85	ng/ul	0.00
43) Dimethylphthalate-d6	14.26	166	202555	8.44	ng/ul	0.00
46) Acenaphthylene-d8	14.56	160	213217	8.07	ng/ul	0.00
51) 4-Nitrophenol-d4	15.06	143	31530	7.46	ng/ul	0.00
57) Fluorene-d10	15.85	176	192522	8.67	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	27715m	5.63	ng/ul	0.00
70) Anthracene-d10	17.71	188	300687	9.53	ng/ul	0.00
76) Pyrene-d10	19.99	212	376561	9.66	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.10	264	386604	9.54	ng/ul	0.00

Target Compounds

						Qvalue
6) Phenol	7.42	94	15365	1.65	ng/ul	90
14) Acetophenone	9.08	105	45101	4.00	ng/ul	89
28) Naphthalene	11.12	128	323267	15.82	ng/ul	98
34) 2-Methylnaphthalene	12.71	142	106856	6.42	ng/ul	96
40) 1,1'-Biphenyl	13.70	154	55114	2.62	ng/ul#	90
44) Dimethylphthalate	14.30	163	28038	1.19	ng/ul#	95
49) Acenaphthene	14.93	153	700060	39.84	ng/ul	97
53) Dibenzofuran	15.26	168	644101	23.63	ng/ul	95
58) Fluorene	15.91	166	729489	32.62	ng/ul	97
69) Phenanthrene	17.66	178	5802892m	162.61	ng/ul	
71) Anthracene	17.75	178	2008440	54.69	ng/ul	95
72) Carbazole	18.02	167	1064645	35.07	ng/ul	97
74) Fluoranthene	19.66	202	6014556m	146.11	ng/ul	
77) Pyrene	20.02	202	5744680	126.60	ng/ul#	74
80) Benzo(a)anthracene	21.89	228	4416872	91.81	ng/ul#	82
82) Chrysene	21.97	228	3870560	85.32	ng/ul#	83
85) Benzo(b)fluoranthene	24.26	252	5058592	104.08	ng/ul#	91
86) Benzo(k)fluoranthene	24.31	252	1953426m	41.99	ng/ul	
88) Benzo(a)pyrene	25.18	252	3805025	80.54	ng/ul	95
89) Indeno(1,2,3-cd)pyrene	29.29	276	2761415	47.66	ng/ul	94
90) Dibenzo(a,h)anthracene	29.33	278	747178	15.46	ng/ul	96
91) Benzo(g,h,i)perylene	30.53	276	2259147	47.37	ng/ul	95

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Manual Integrations
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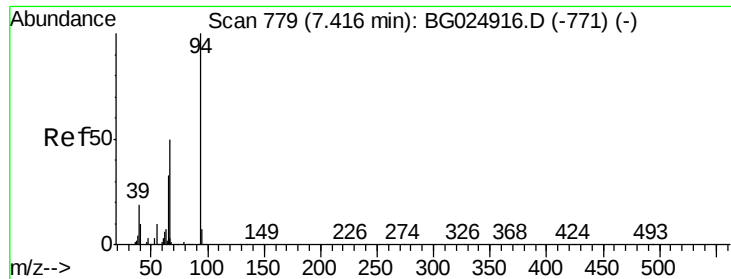
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11/28/2016 4:50:35 PM

Quant Time: Nov 24 07:03:05 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG112316.M
Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BG024930.D  
Acq On    : 24 Nov 2016    6:15  
Operator  : UM/SJ  
Sample    : H5701-08 2X  
Misc      :  
ALS Vial  : 23    Sample Multiplier: 1
```



#6

Phenol

Concen: 1.65 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.00 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Instrument :

BNA_G

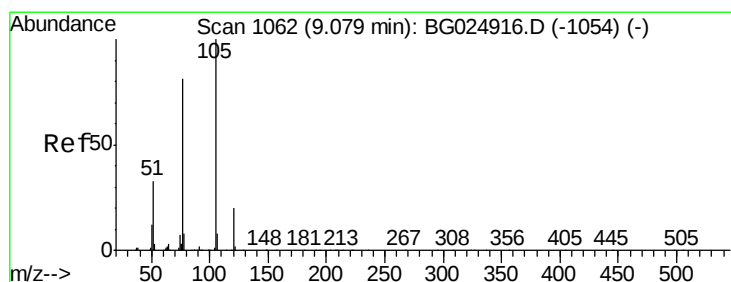
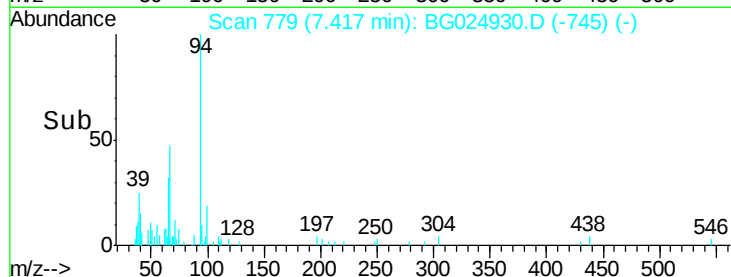
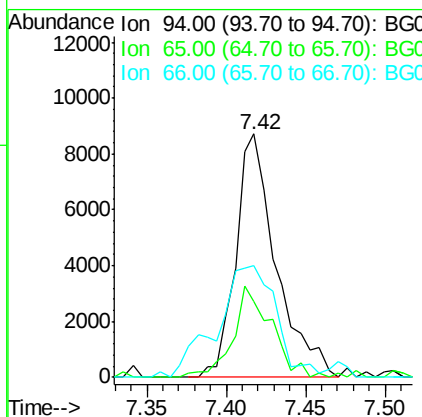
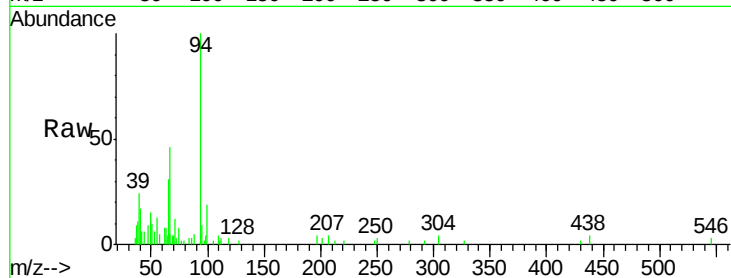
ClientSampled :

A4WD5

Tgt Ion:	94	Resp:	15365
Ion Ratio	Lower	Upper	
94	100		
65	31.3	26.8	40.2
66	45.7	44.4	66.6

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#14

Acetophenone

Concen: 4.00 ng/ul

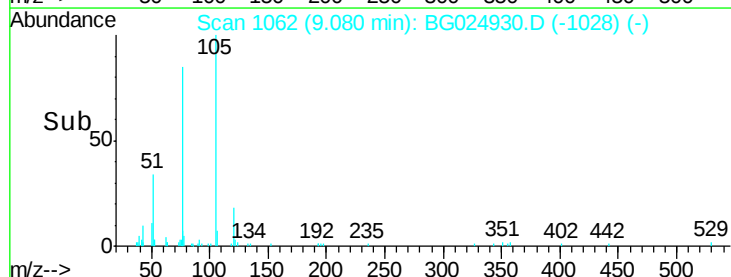
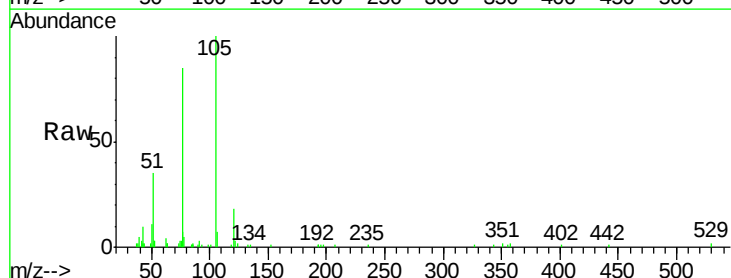
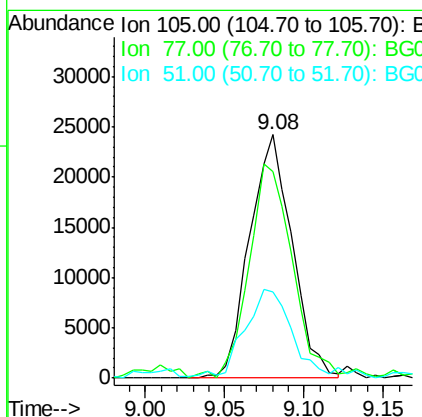
RT: 9.08 min Scan# 1062

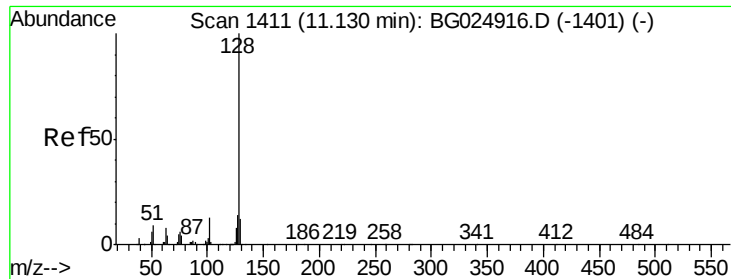
Delta R.T. 0.00 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Tgt Ion:	105	Resp:	45101
Ion Ratio	Lower	Upper	
105	100		
77	84.6	76.0	114.0
51	35.3	34.8	52.2





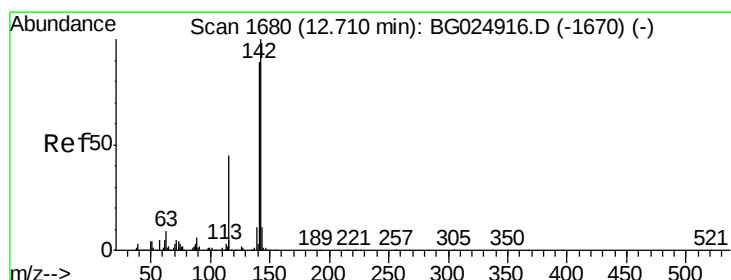
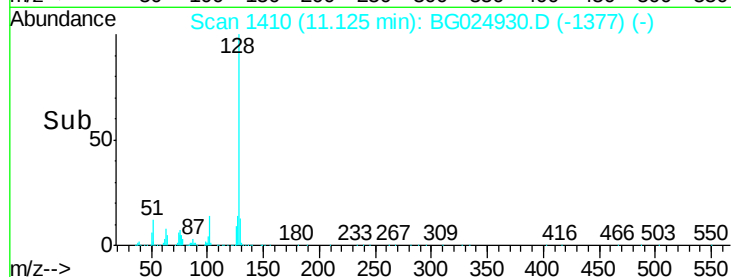
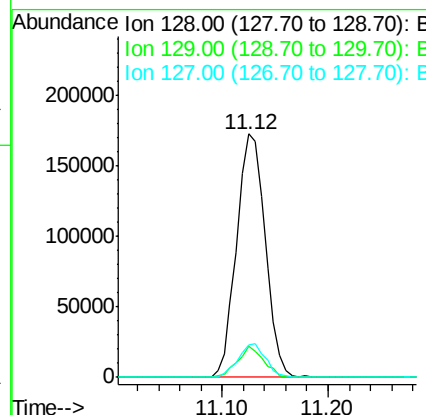
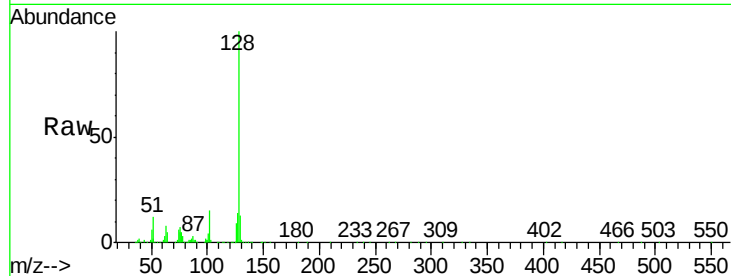
#28
Naphthalene
Concen: 15.82 ng/ul
RT: 11.12 min Scan# 1410
Delta R.T. -0.00 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Instrument :
BNA_G
ClientSampleId :
A4WD5

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	323267		
129	12.7	9.4	14.2	
127	13.5	10.3	15.5	

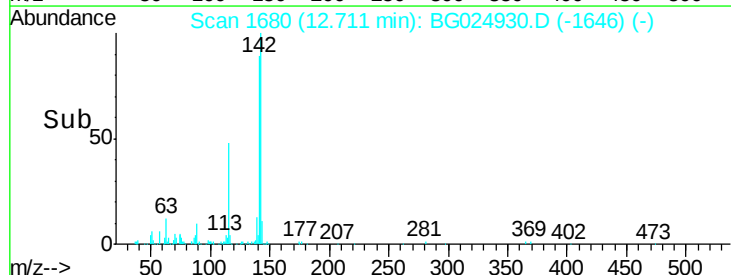
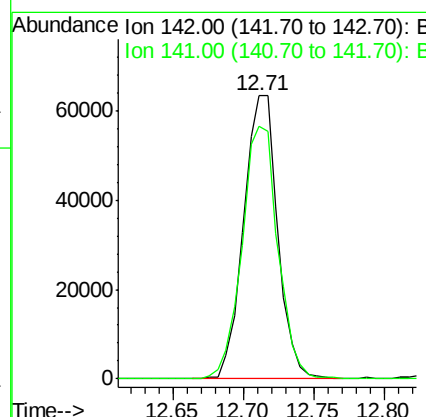
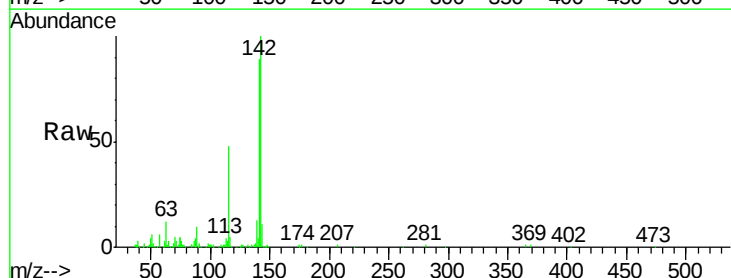
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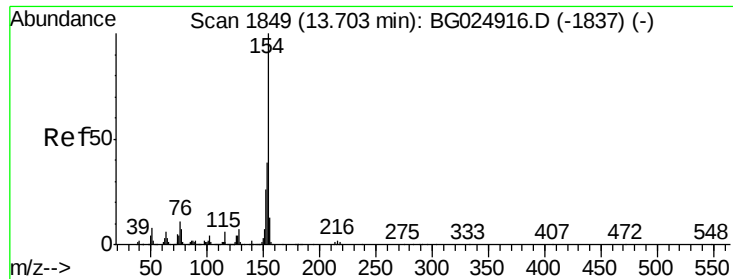
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#34
2-Methylnaphthalene
Concen: 6.42 ng/ul
RT: 12.71 min Scan# 1680
Delta R.T. 0.00 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	106856		
141	89.3	68.6	102.8	





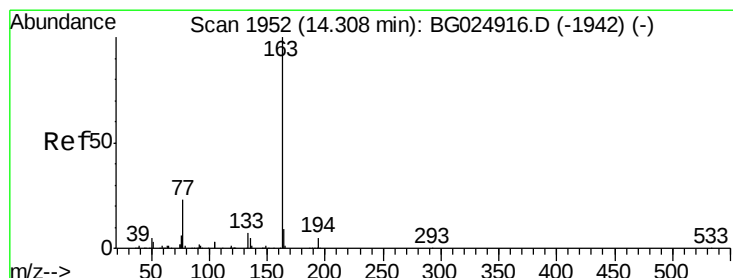
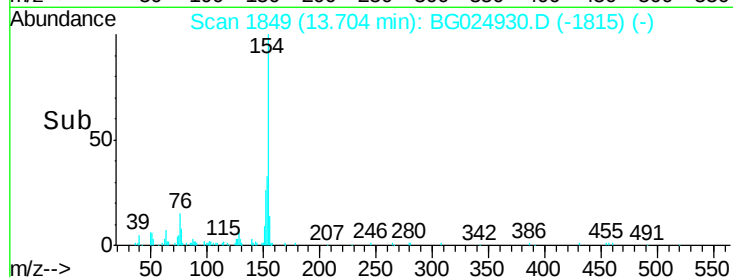
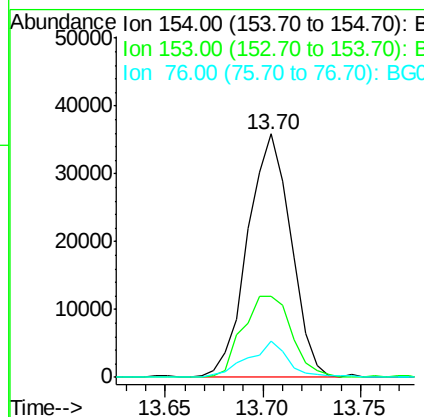
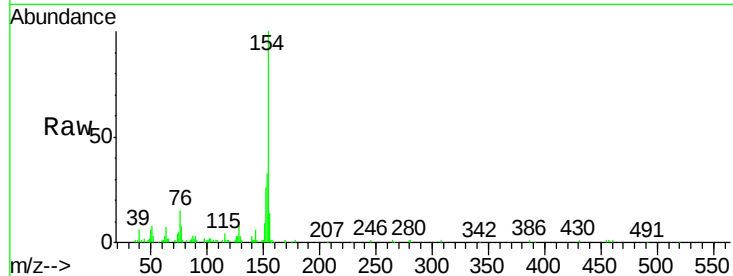
#40
1,1'-Biphenyl
Concen: 2.62 ng/ul
RT: 13.70 min Scan# 1849
Delta R.T. 0.00 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Instrument :
BNA_G
ClientSampleId :
A4WD5

Tgt Ion	Ratio	Lower	Upper
154	100		
153	33.4	32.2	48.2
76	15.1	9.6	14.4

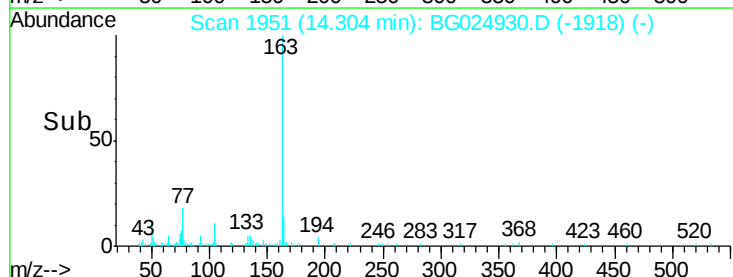
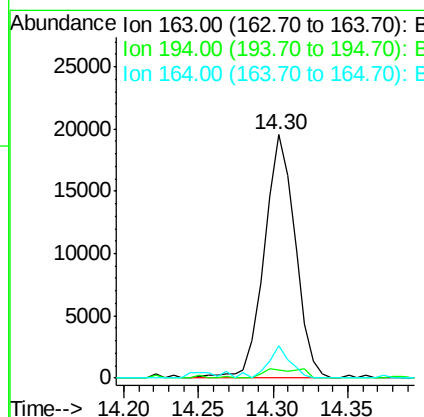
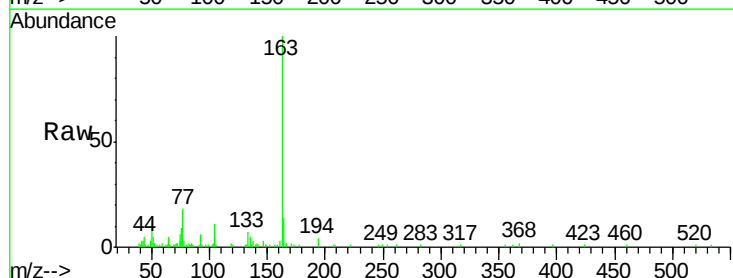
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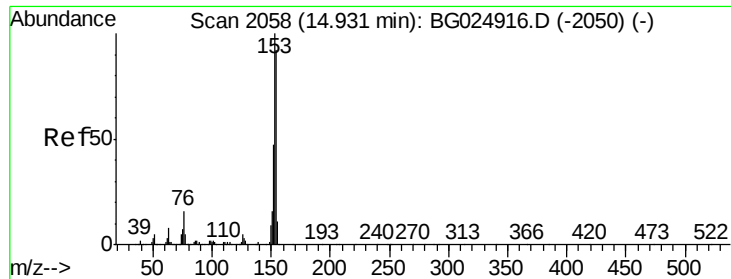
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#44
Dimethylphthalate
Concen: 1.19 ng/ul
RT: 14.30 min Scan# 1951
Delta R.T. -0.00 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.4	5.0
164	13.5	9.0	13.4





#49

Acenaphthene

Concen: 39.84 ng/ul

RT: 14.93 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Instrument :

BNA_G

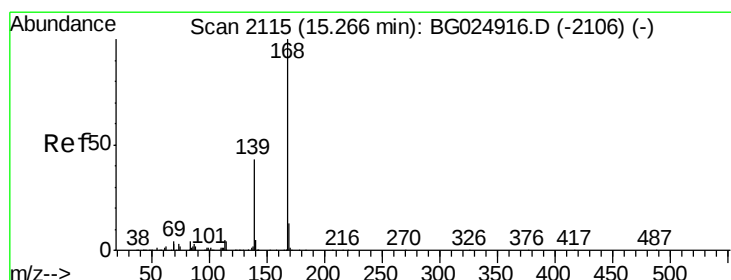
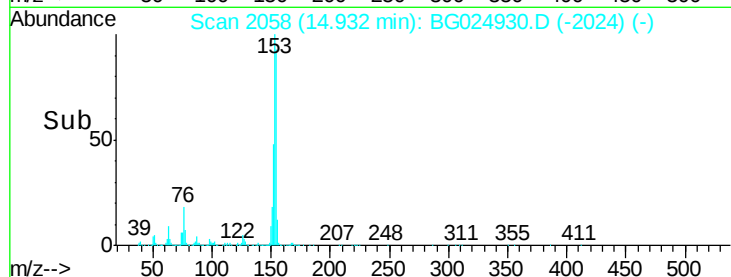
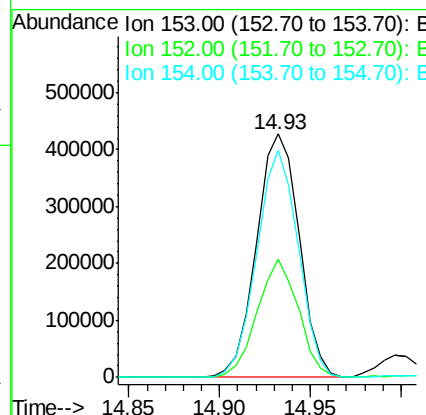
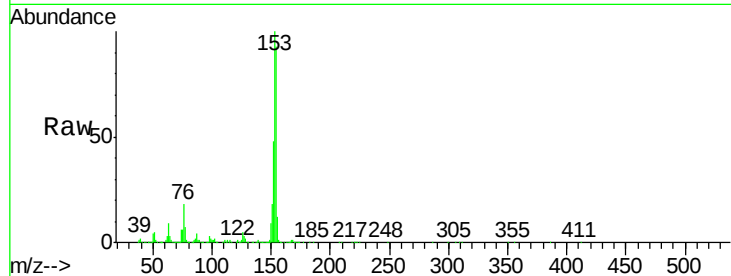
ClientSampleId :

A4WD5

Tgt Ion:	153	Resp:	700060
Ion Ratio		Lower	Upper
153	100		
152	48.3	36.5	54.7
154	93.3	72.3	108.5

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#53

Dibenzofuran

Concen: 23.63 ng/ul

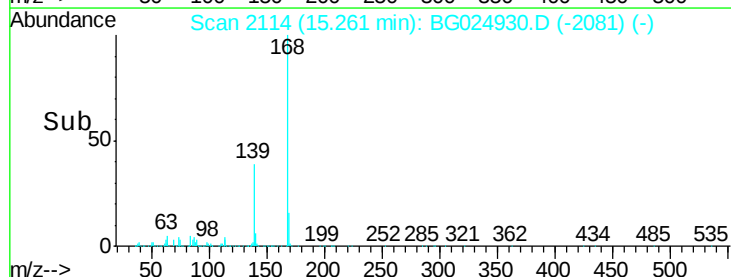
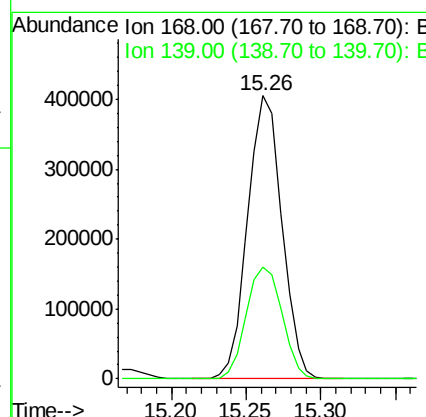
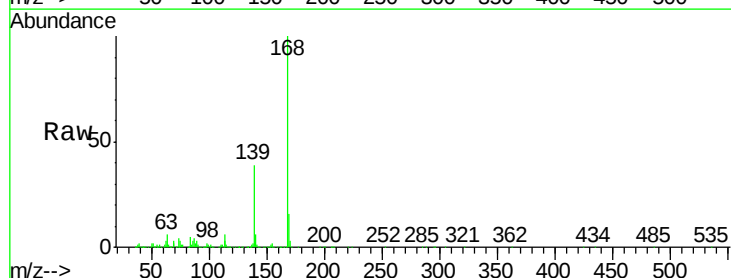
RT: 15.26 min Scan# 2114

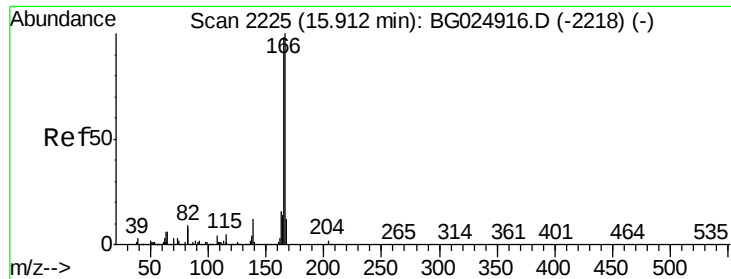
Delta R.T. -0.00 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Tgt Ion:	168	Resp:	644101
Ion Ratio		Lower	Upper
168	100		
139	39.4	33.8	50.8





#58

Fluorene

Concen: 32.62 ng/ul

RT: 15.91 min Scan# 2225

Delta R.T. 0.00 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Instrument :

BNA_G

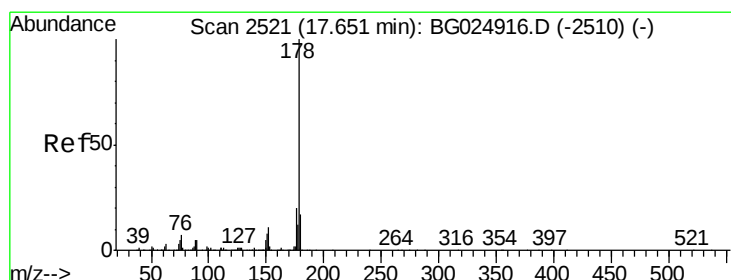
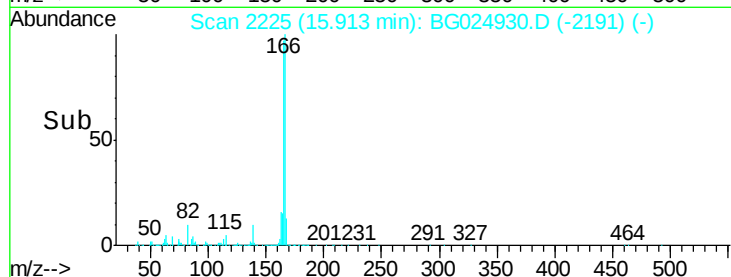
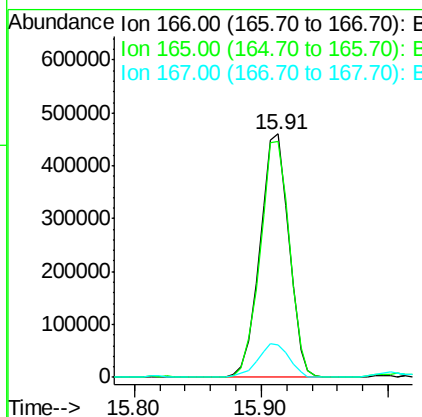
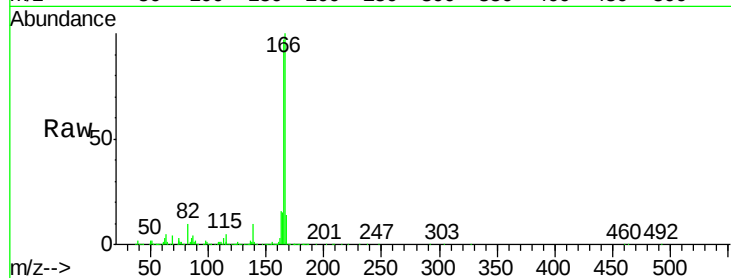
ClientSampleId :

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Tgt Ion:	166	Resp:	729489
Ion Ratio	Lower	Upper	
166	100		
165	96.8	79.7	119.5
167	13.6	11.4	17.2

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#69

Phenanthrene

Concen: 162.61 ng/ul m

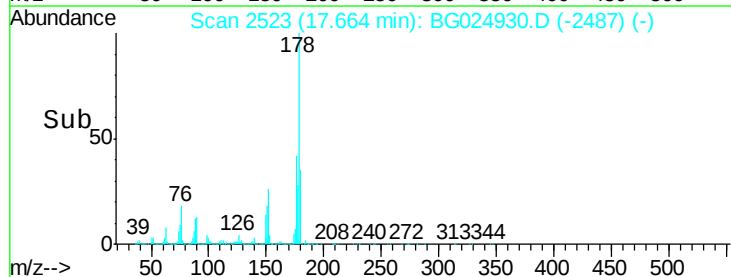
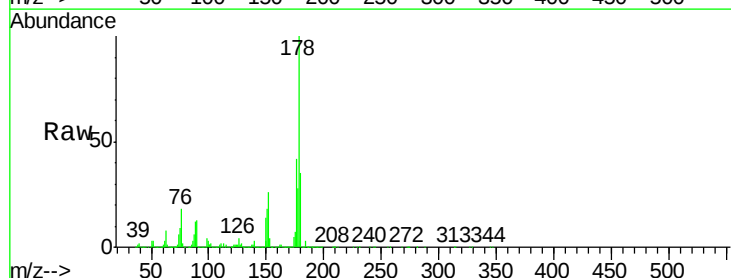
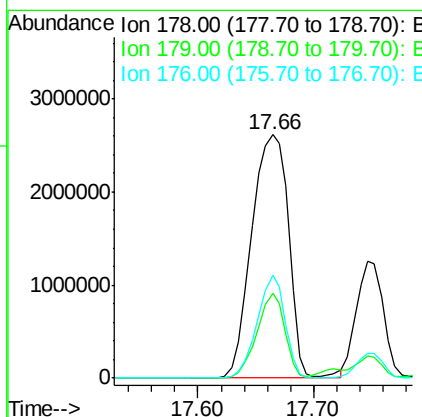
RT: 17.66 min Scan# 2523

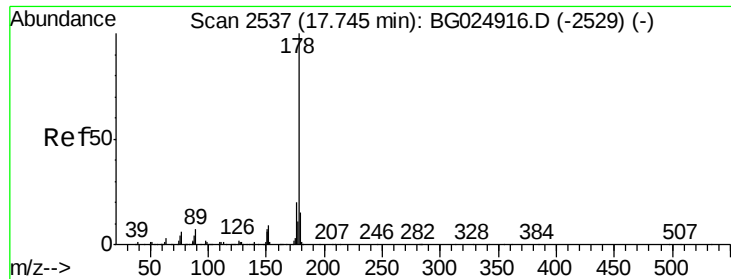
Delta R.T. 0.01 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Tgt Ion:	178	Resp:	5802892
Ion Ratio	Lower	Upper	
178	100		
179	34.8	12.4	18.6#
176	42.4	16.5	24.7#





#71

Anthracene

Concen: 54.69 ng/ul

RT: 17.75 min Scan# 2537

Delta R.T. 0.00 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Instrument :

BNA_G

ClientSampleId :

A4WD5

Tgt Ion:178 Resp: 2008440

Ion Ratio Lower Upper

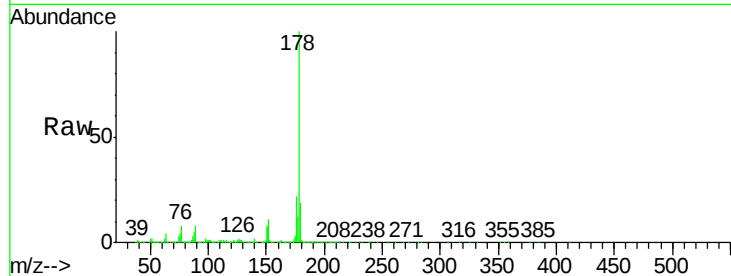
178 100

179 18.6 12.6 19.0

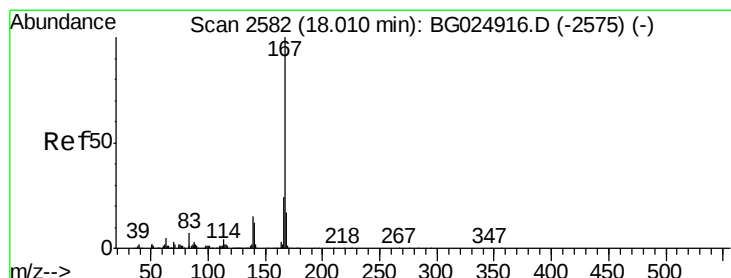
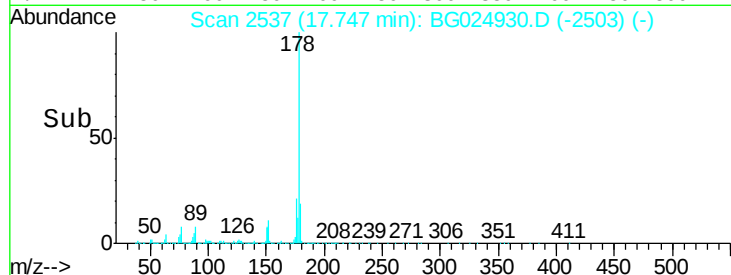
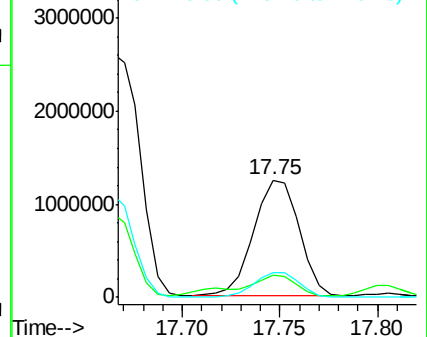
176 21.5 15.9 23.9

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 35.07 ng/ul

RT: 18.02 min Scan# 2583

Delta R.T. 0.01 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

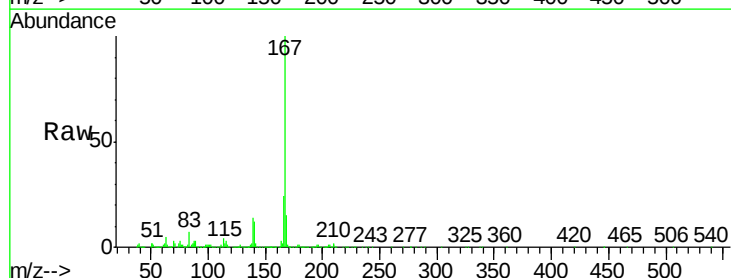
Tgt Ion:167 Resp: 1064645

Ion Ratio Lower Upper

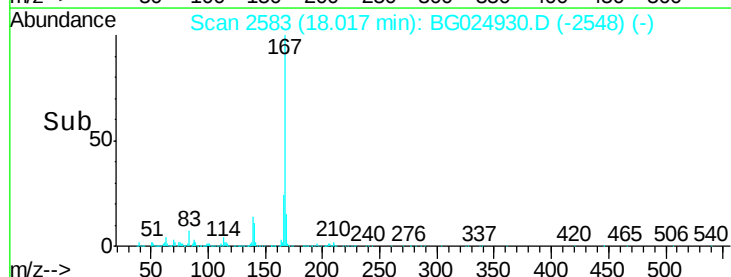
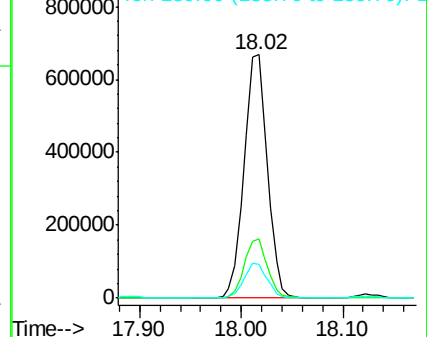
167 100

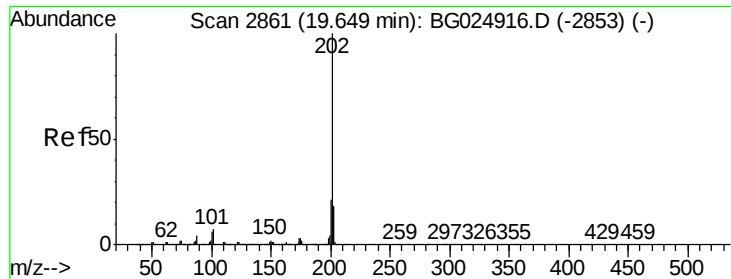
166 24.4 17.9 26.9

139 13.8 10.5 15.7



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 146.11 ng/ul m

RT: 19.66 min Scan# 2863

Delta R.T. 0.01 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Instrument :

BNA_G

ClientSampleId :

A4WD5

Tgt Ion:202 Resp: 6014556

Ion Ratio Lower Upper

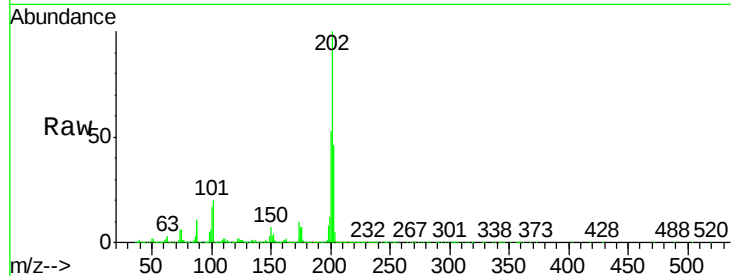
202 100

101 19.5 6.2 9.2#

100 16.7 5.2 7.8#

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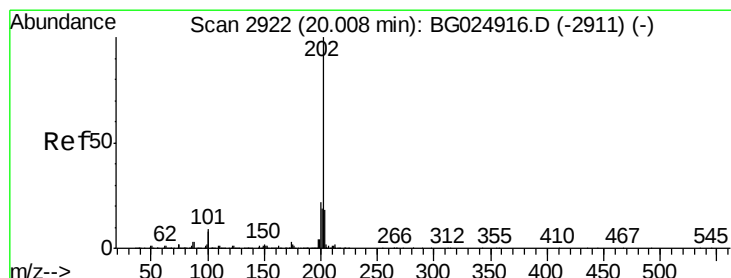
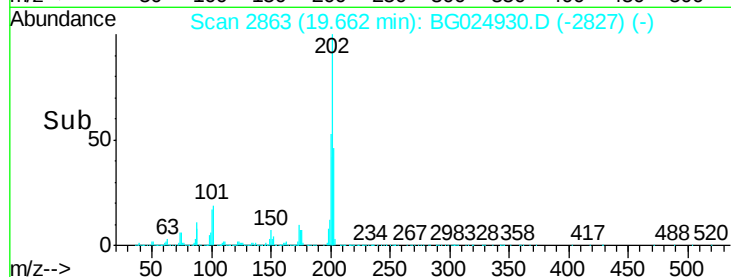
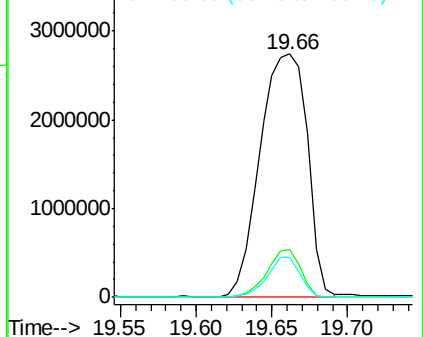
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 126.60 ng/ul

RT: 20.02 min Scan# 2924

Delta R.T. 0.01 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

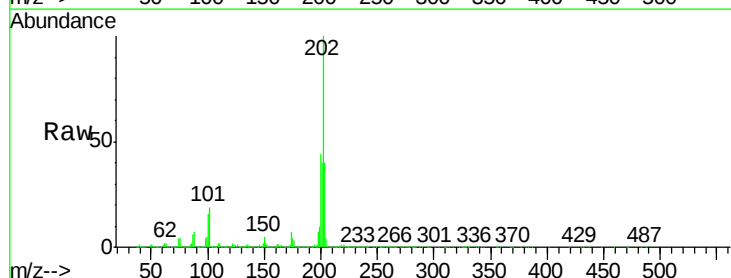
Tgt Ion:202 Resp: 5744680

Ion Ratio Lower Upper

202 100

101 19.1 6.9 10.3#

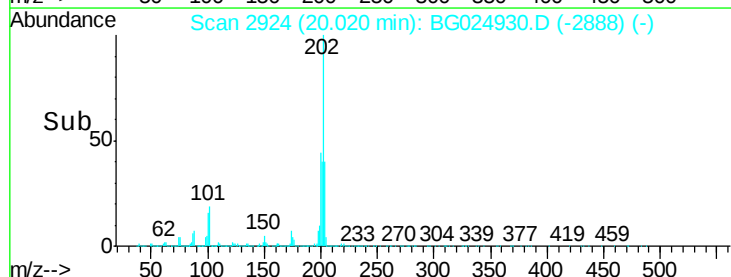
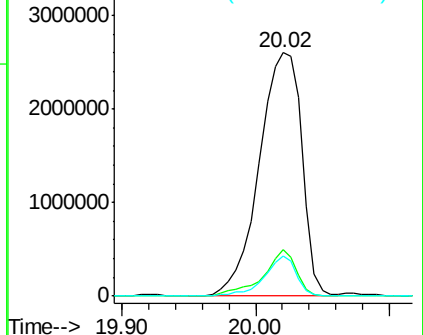
100 16.4 6.6 10.0#

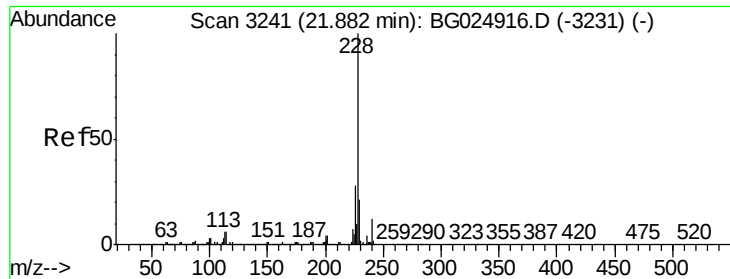


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





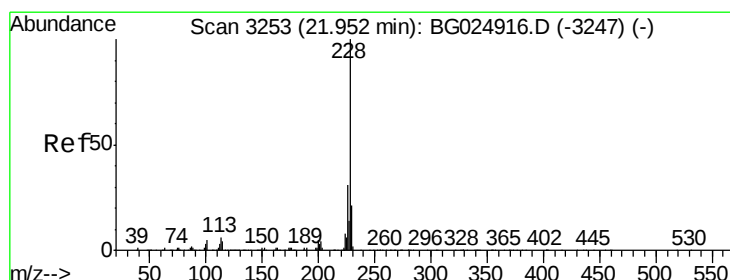
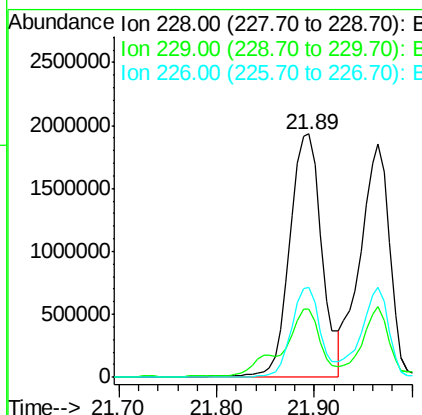
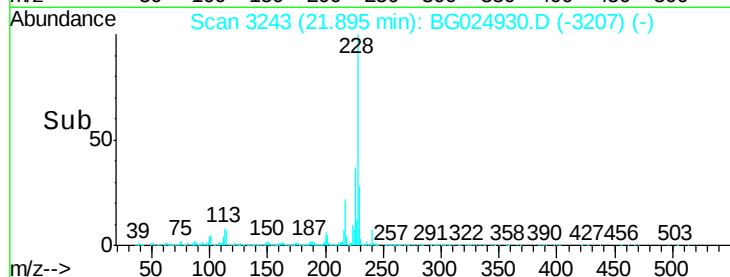
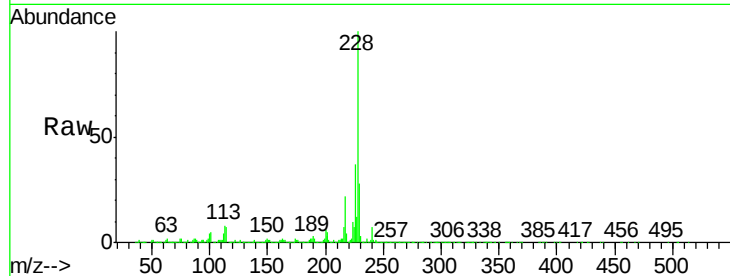
#80
Benzo(a)anthracene
Concen: 91.81 ng/ul
RT: 21.89 min Scan# 3243
Delta R.T. 0.01 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Instrument :
BNA_G
ClientSampled :
A4WD5

Tgt Ion:228 Resp: 4416872
Ion Ratio Lower Upper
228 100
229 28.1 16.3 24.5#
226 37.0 21.9 32.9#

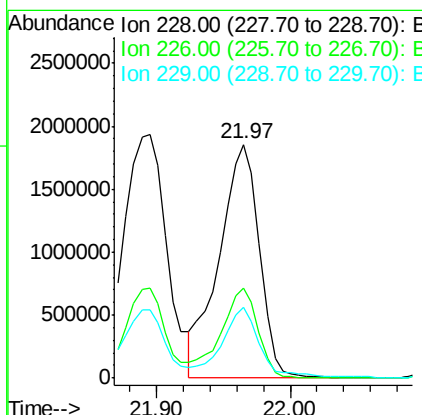
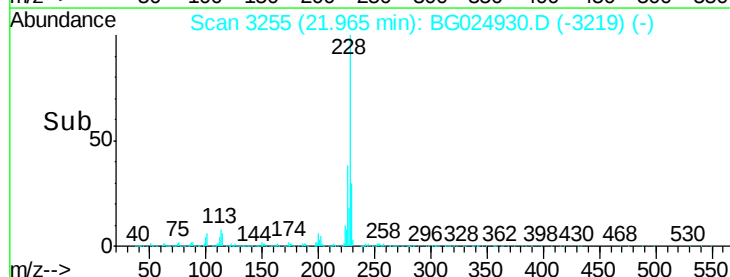
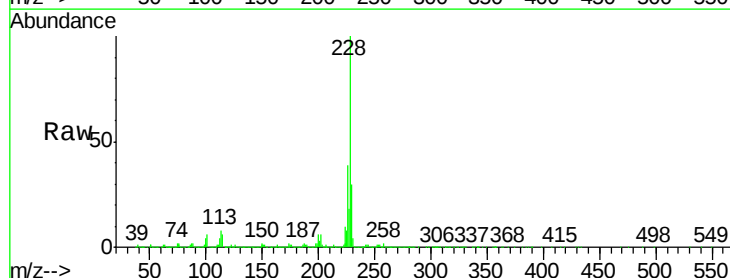
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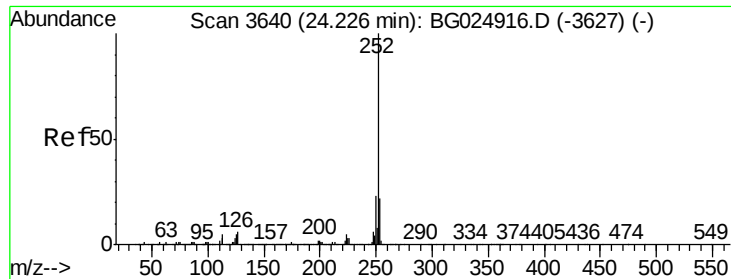
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#82
Chrysene
Concen: 85.32 ng/ul
RT: 21.97 min Scan# 3255
Delta R.T. 0.01 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Tgt Ion:228 Resp: 3870560
Ion Ratio Lower Upper
228 100
226 38.5 24.0 36.0#
229 30.1 16.9 25.3#





#85

Benzo(b)fluoranthene

Concen: 104.08 ng/ul

RT: 24.26 min Scan# 3645

Delta R.T. 0.03 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Instrument :

BNA_G

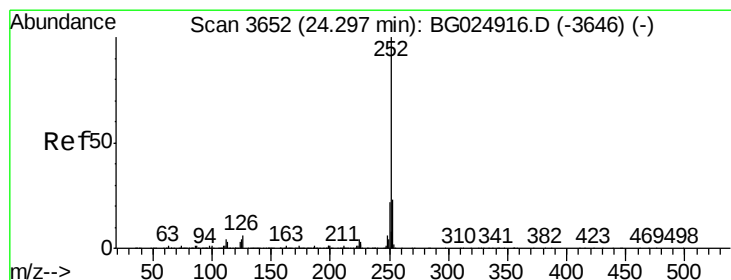
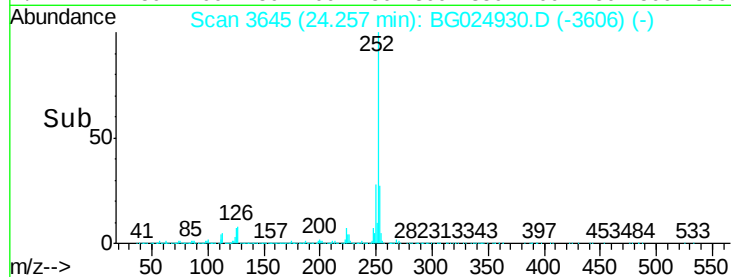
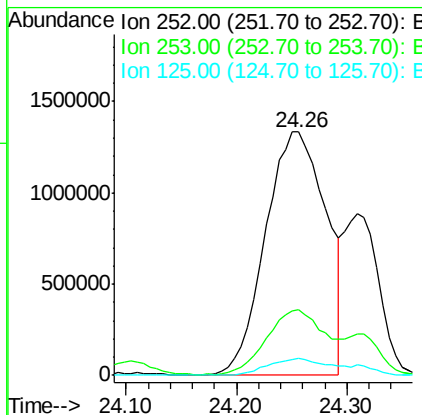
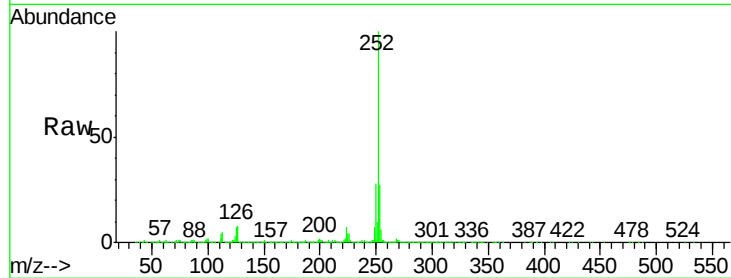
ClientSampled :

A4WD5

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.8	17.7	26.5#
125	6.9	4.0	6.0#

Manual Integrations
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#86

Benzo(k)fluoranthene

Concen: 41.99 ng/ul m

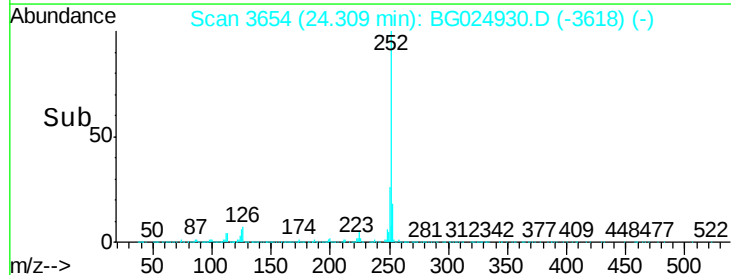
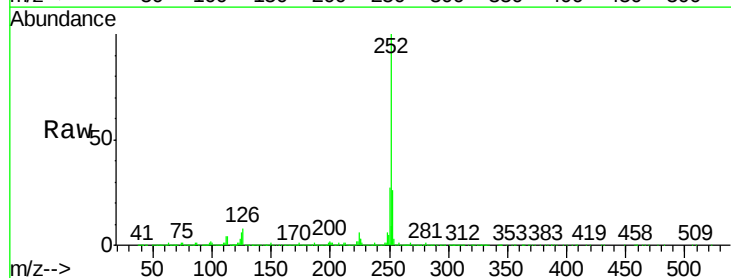
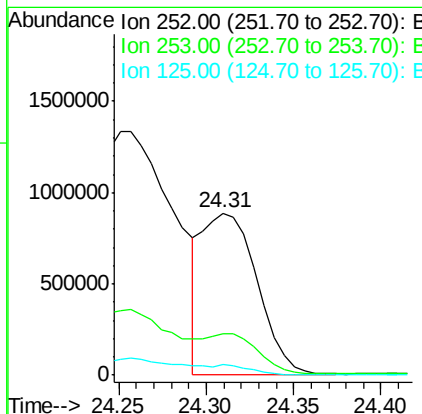
RT: 24.31 min Scan# 3654

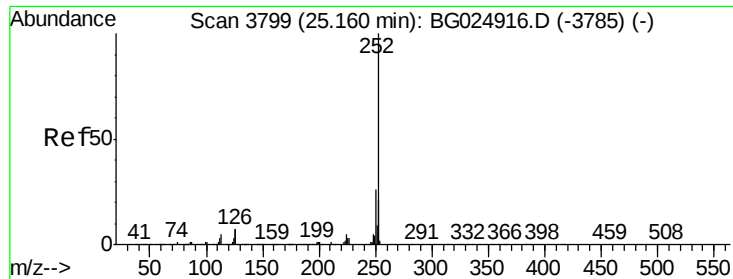
Delta R.T. 0.01 min

Lab File: BG024930.D

Acq: 24 Nov 2016 6:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.5	27.7
125	6.2	4.1	6.1#





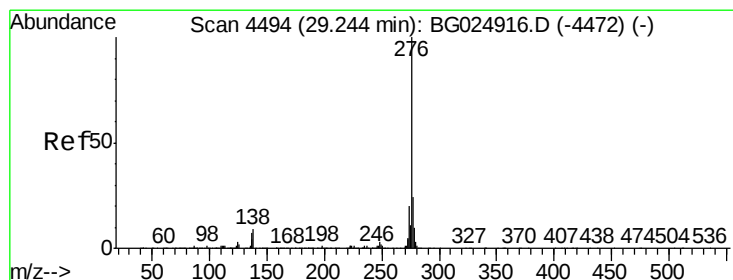
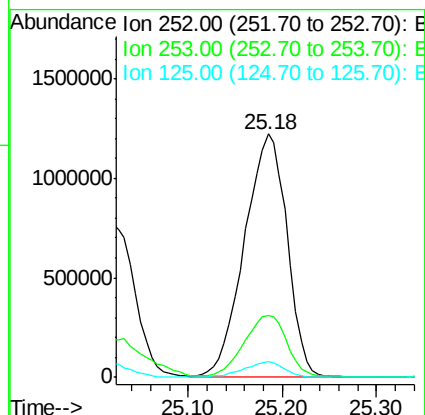
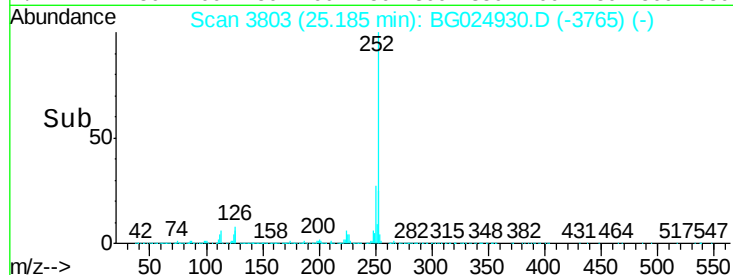
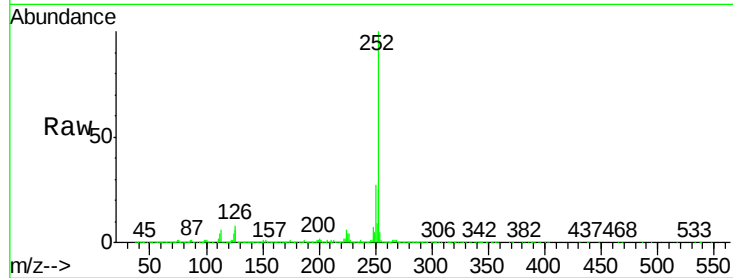
#88
Benzo(a)pyrene
Concen: 80.54 ng/ul
RT: 25.18 min Scan# 3803
Delta R.T. 0.02 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Instrument :
BNA_G
ClientSampleId :
A4WD5

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.8	26.6
125	6.4	5.4	8.0

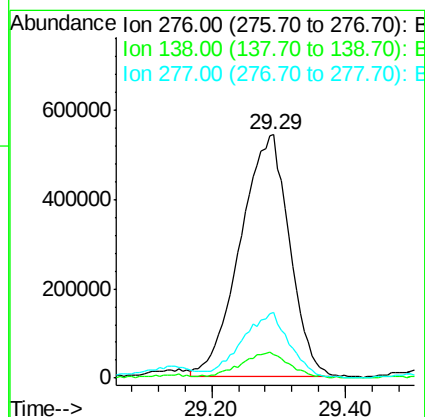
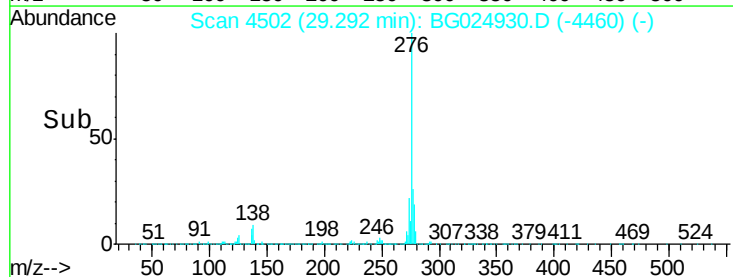
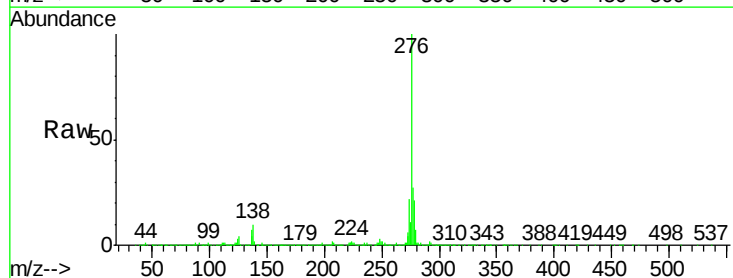
Manual Integrations
APPROVED

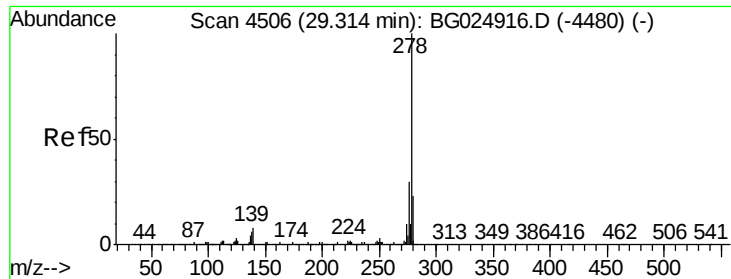
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#89
Indeno(1,2,3-cd)pyrene
Concen: 47.66 ng/ul
RT: 29.29 min Scan# 4502
Delta R.T. 0.05 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.7	8.2	12.4
277	27.1	18.6	28.0





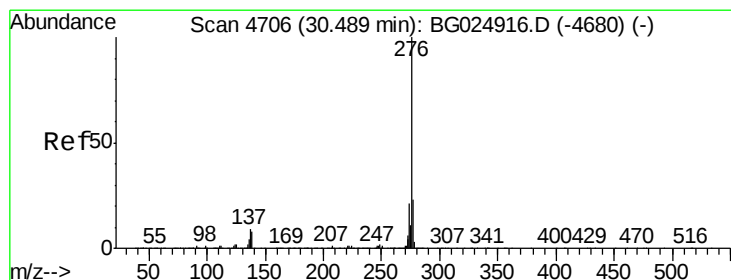
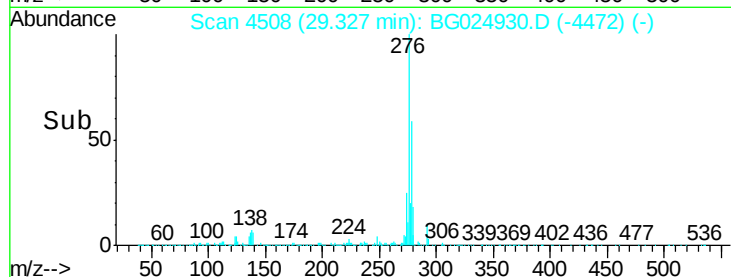
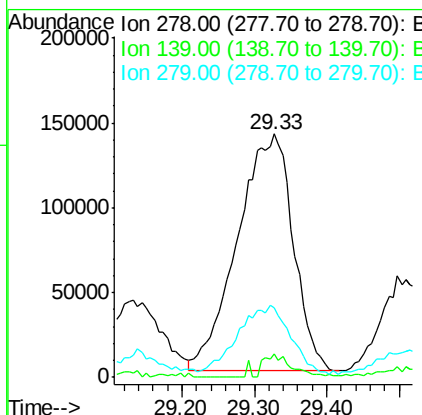
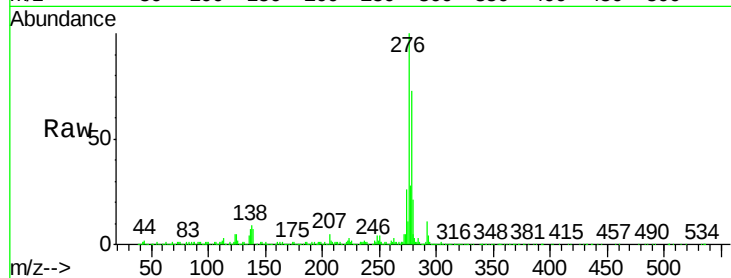
#90
Dibenzo(a,h)anthracene
Concen: 15.46 ng/ul
RT: 29.33 min Scan# 4508
Delta R.T. 0.01 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Instrument :
BNA_G
ClientSampleId :
A4WD5

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.4	6.7	10.1
279	28.4	20.9	31.3

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 47.37 ng/ul
RT: 30.53 min Scan# 4712
Delta R.T. 0.04 min
Lab File: BG024930.D
Acq: 24 Nov 2016 6:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.1	8.6	12.8
277	24.6	17.6	26.4

