

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080515\
 Data File : BG018291.D
 Acq On : 6 Aug 2015 3:16
 Operator : UM/TP
 Sample : G3109-08RE
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01J2RE

Manual Integrations
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apatel
 8/10/2015 9:24:58 AM

Quant Time: Aug 14 03:15:50 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	48211	20.00	ng/ul	0.01
18) Naphthalene-d8	10.23	136	218062	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.13	164	125174	20.00	ng/ul	0.01
62) Phenanthrene-d10	16.89	188	196283	20.00	ng/ul	0.02
78) Chrysene-d12	21.12	240	184435	20.00	ng/ul	0.03
86) Perylene-d12	23.30	264	151514	20.00	ng/ul	0.06

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.90	96	1309	2.34	ng/uL	0.00
5) Phenol-d5	6.65	99	67240	17.73	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.78	67	35141	19.18	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	59787	18.94	ng/ul	0.01
13) 4-Methylphenol-d8	8.18	113	28044	8.76	ng/ul	0.01
19) Nitrobenzene-d5	8.60	128	32494	19.24	ng/ul	0.01
22) 2-Nitrophenol-d4	9.32	143	38084	19.50	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.87	165	65722	18.30	ng/ul	0.02
29) 4-Chloroaniline-d4	10.37	131	4727	1.10	ng/ul	0.01
44) Dimethylphthalate-d6	13.54	166	191594	19.79	ng/ul	0.01
47) Acenaphthylene-d8	13.82	160	222735	20.29	ng/ul	0.01
52) 4-Nitrophenol-d4	14.40	143	20509	12.84	ng/ul	0.03
58) Fluorene-d10	15.13	176	157159	18.07	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.30	200	6829m	5.03	ng/ul	0.03
71) Anthracene-d10	16.99	188	170326	19.73	ng/ul	0.02
79) Pyrene-d10	19.32	212	127485	12.35	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.16	264	153729m	19.50	ng/ul	0.06

Target Compounds

						Qvalue
28) Naphthalene	10.27	128	67034	6.54	ng/ul	97
34) 2-Methylnaphthalene	11.91	142	27062	3.29	ng/ul	95
41) 1,1'-Biphenyl	12.94	154	16945	1.96	ng/ul#	81
45) Dimethylphthalate	13.59	163	76574	7.93	ng/ul	97
48) Acenaphthylene	13.85	152	137987	12.21	ng/ul	98
50) Acenaphthene	14.19	153	119533	16.34	ng/ul	97
54) Dibenzofuran	14.53	168	221557	20.58	ng/ul	97
59) Fluorene	15.18	166	293788	31.07	ng/ul	97
70) Phenanthrene	16.95	178	3269807m	330.09	ng/ul	
72) Anthracene	17.03	178	675453	68.33	ng/ul	98
75) Carbazole	17.31	167	198371	23.78	ng/ul	95
76) Di-n-butylphthalate	17.87	149	12836	1.10	ng/ul#	90
77) Fluoranthene	18.99	202	3583864	326.18	ng/ul#	87
80) Pyrene	19.36	202	2911540	227.03	ng/ul#	89
83) Benzo(a)anthracene	21.11	228	1850540	190.09	ng/ul#	88
85) Chrysene	21.11	228	1875471m	214.42	ng/ul	
88) Benzo(b)fluoranthene	22.66	252	2387932	256.98	ng/ul#	93
89) Benzo(k)fluoranthene	22.70	252	709487	79.62	ng/ul#	90
91) Benzo(a)pyrene	23.22	252	1564073	192.78	ng/ul#	95
92) Indeno(1,2,3-cd)pyrene	25.53	276	736470	73.37	ng/ul	98
93) Dibenzo(a,h)anthracene	25.52	278	182977	20.78	ng/ul#	94
94) Benzo(g,h,i)perylene	26.20	276	549005	67.40	ng/ul	98

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ALS Vial : 20 Sample Multiplier: 1

Instrument :
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Quant Time: Aug 14 03:15:50 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

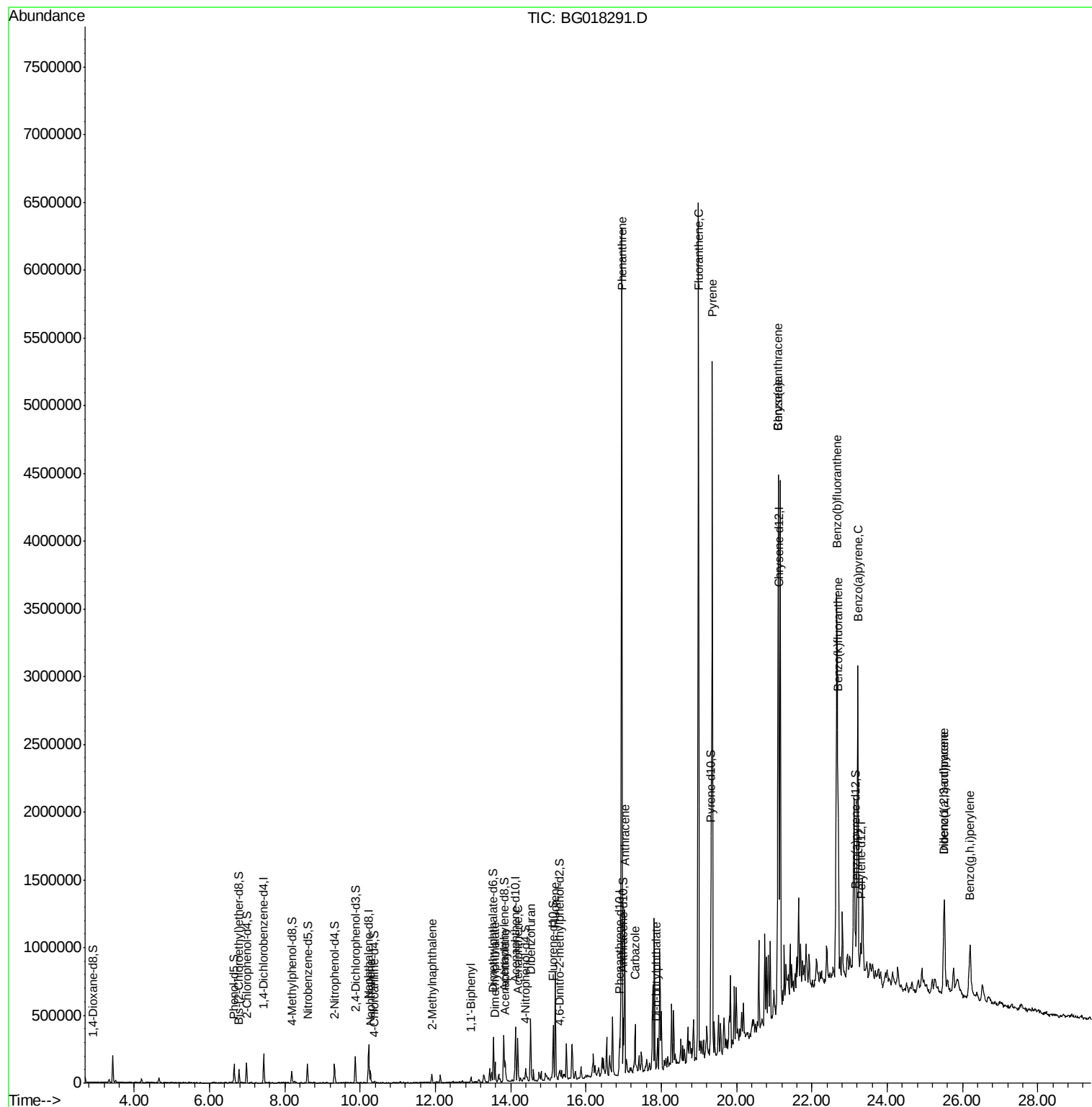
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Data File : BG018291.D
Acq On : 6 Aug 2015 3:16
Operator : UM/TP
Sample : G3109-08RE
Misc :
ALS Vial : 20 Sample Multiplier: 1

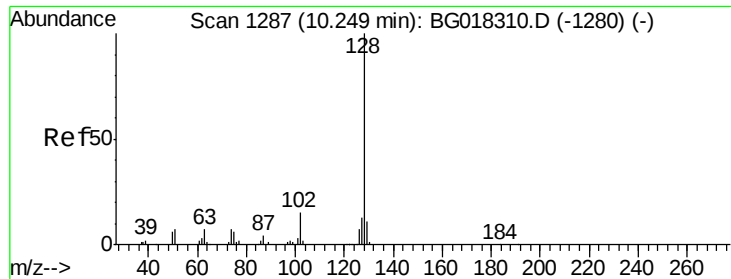
Instrument :
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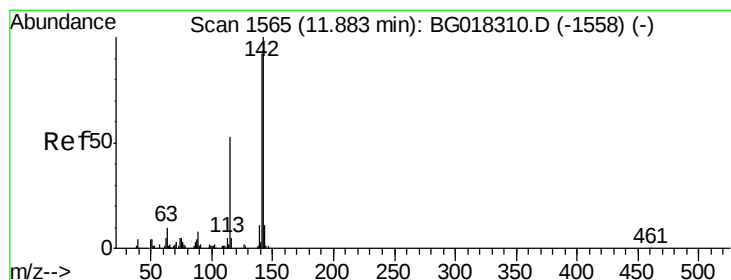
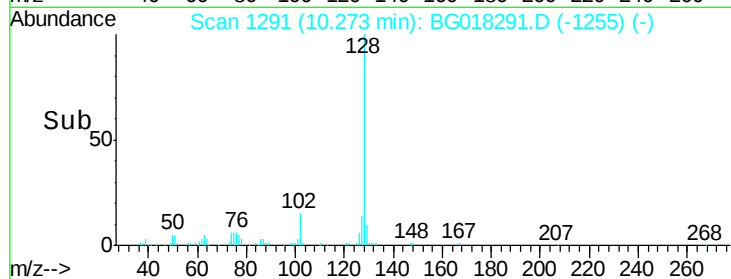
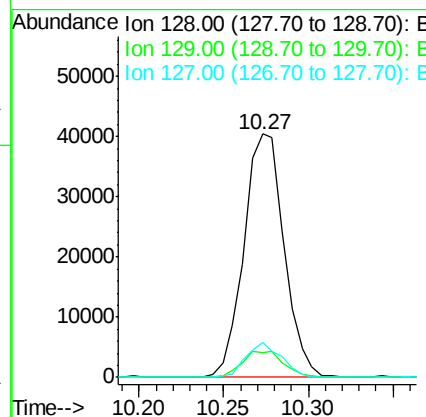
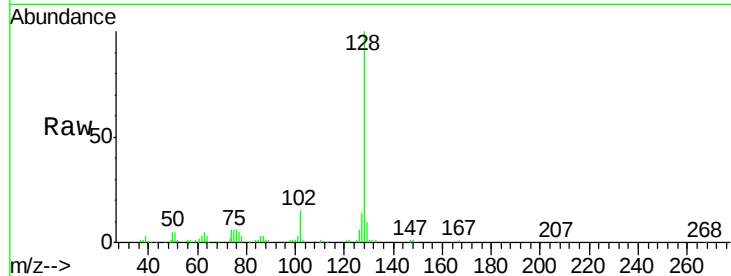
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Naphthalene
Concen: 6.54 ng/ul
RT: 10.27 min Scan# 1291
Delta R.T. 0.01 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Instrument :
BNA_G
ClientSampled :
C01J2RE

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	7.8	11.6
127	14.1	10.2	15.4

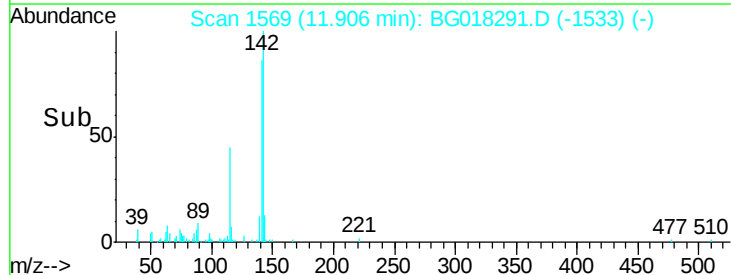
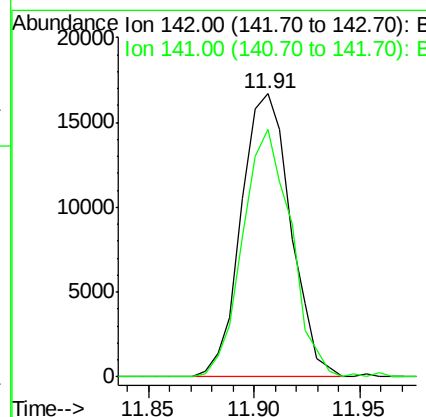
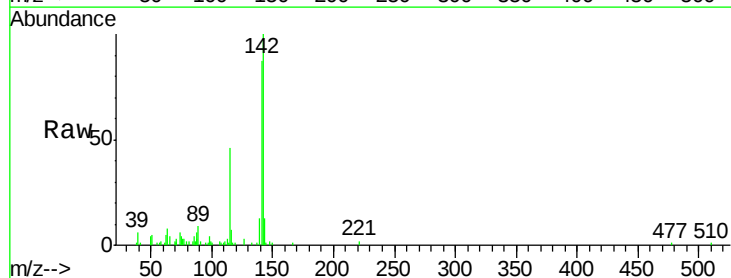
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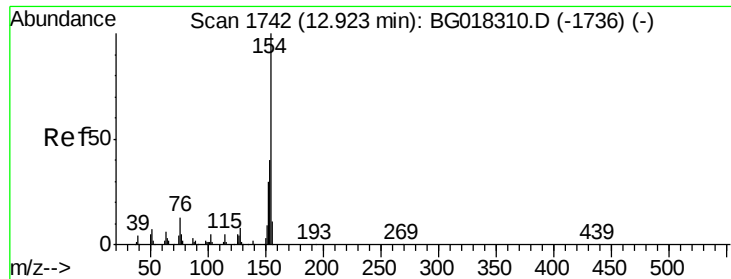
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#34
2-Methylnaphthalene
Concen: 3.29 ng/ul
RT: 11.91 min Scan# 1569
Delta R.T. 0.01 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.2	65.9	98.9





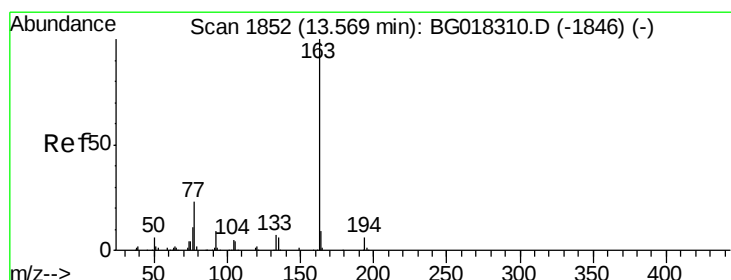
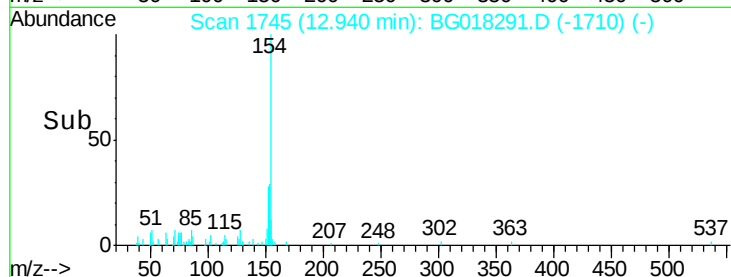
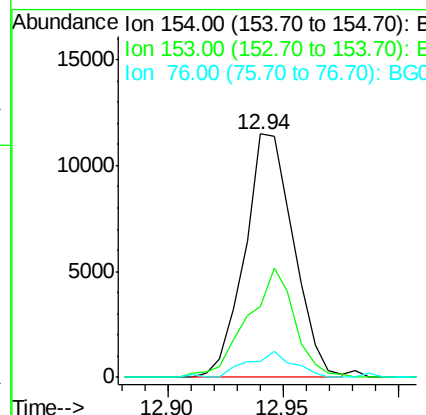
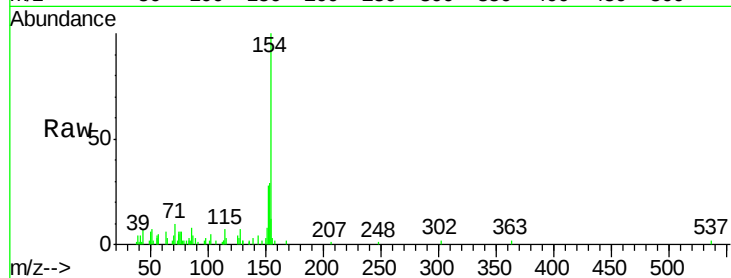
#41
 1,1'-Biphenyl
 Concen: 1.96 ng/ul
 RT: 12.94 min Scan# 1745
 Delta R.T. 0.01 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Instrument :
 BNA_G
 ClientSampleId :
 C01J2RE

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	28.8	33.4	50.0#
76	6.3	8.6	12.8#

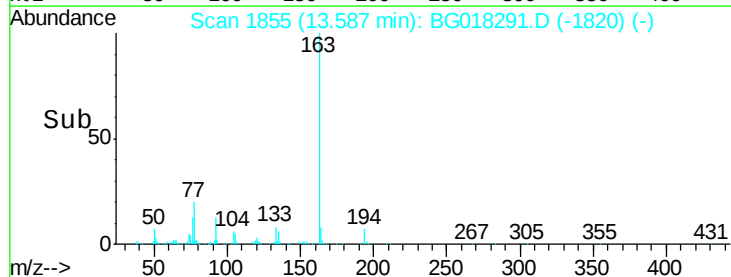
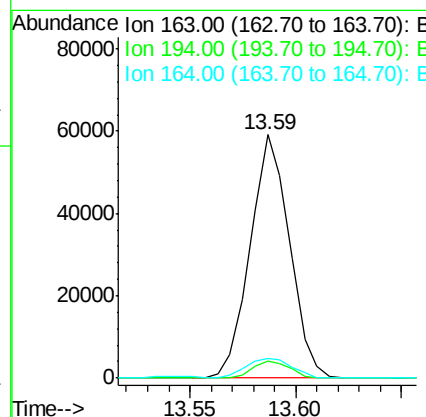
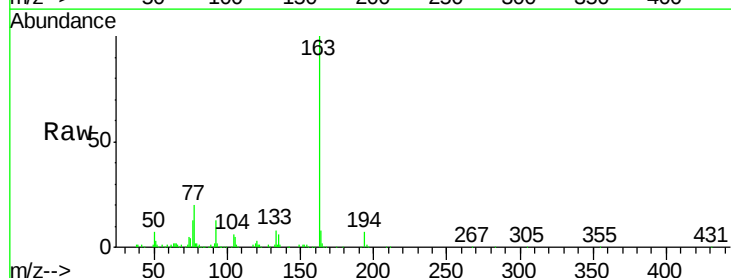
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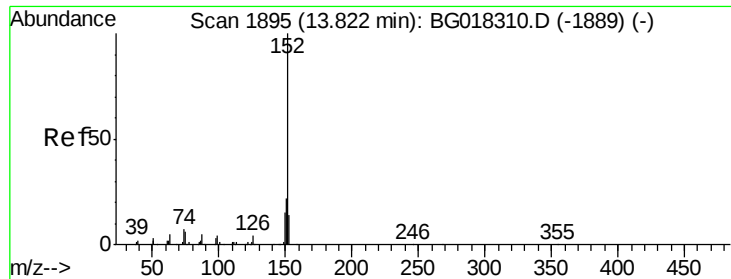
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#45
 Dimethylphthalate
 Concen: 7.93 ng/ul
 RT: 13.59 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	6.8	5.4	8.2
164	8.2	7.8	11.8





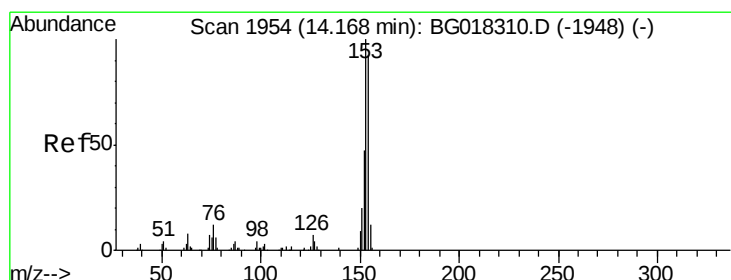
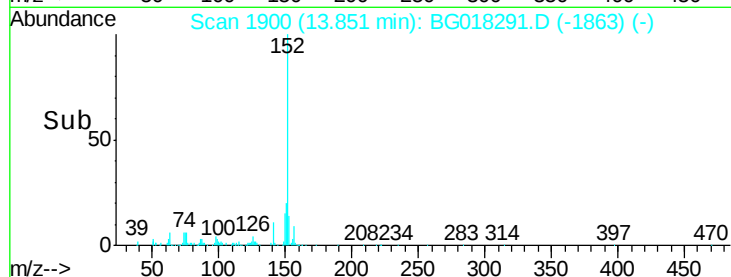
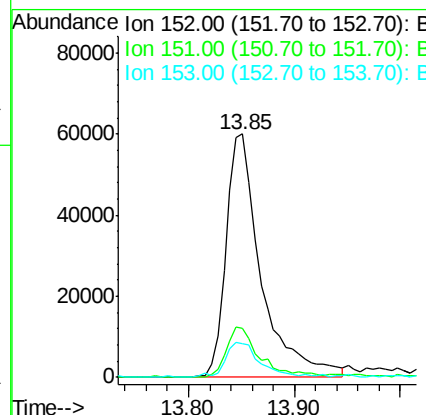
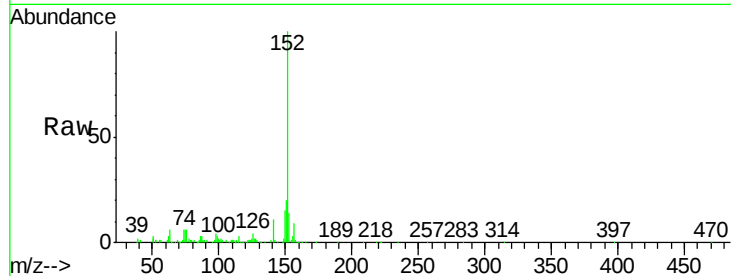
#48
Acenaphthylene
Concen: 12.21 ng/ul
RT: 13.85 min Scan# 1900
Delta R.T. 0.02 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Instrument :
BNA_G
ClientSampleId :
C01J2RE

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	137987		
151	20.0	16.5	24.7	
153	13.7	9.8	14.6	

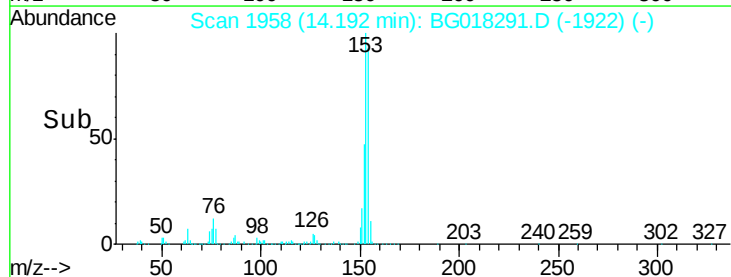
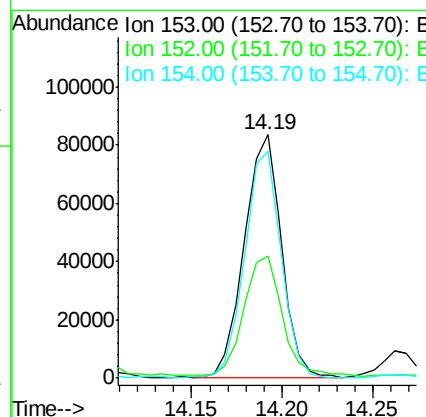
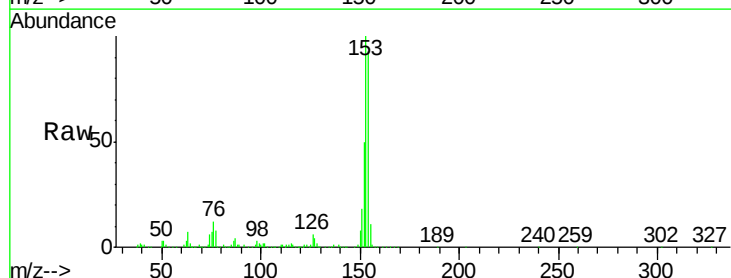
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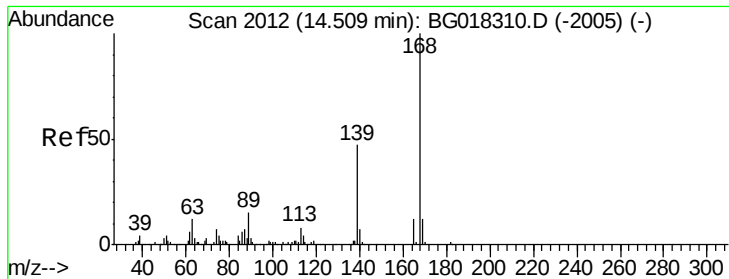
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#50
Acenaphthene
Concen: 16.34 ng/ul
RT: 14.19 min Scan# 1958
Delta R.T. 0.01 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Resp	Lower	Upper
153	100	119533		
152	49.9	39.0	58.4	
154	93.1	77.4	116.2	





#54

Dibenzenofuran

Concen: 20.58 ng/ul

RT: 14.53 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

Tgt Ion:168 Resp: 221557

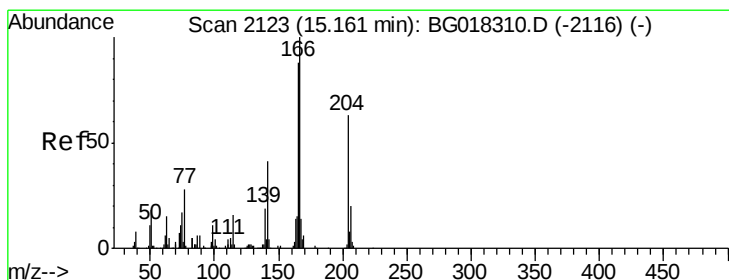
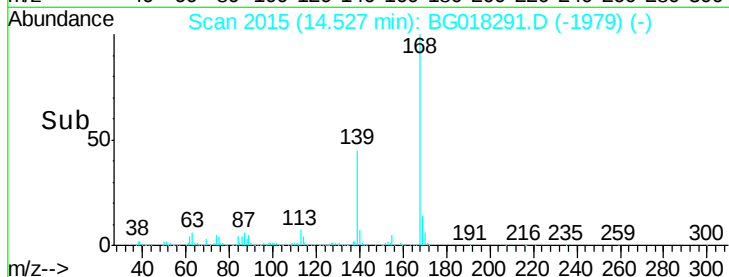
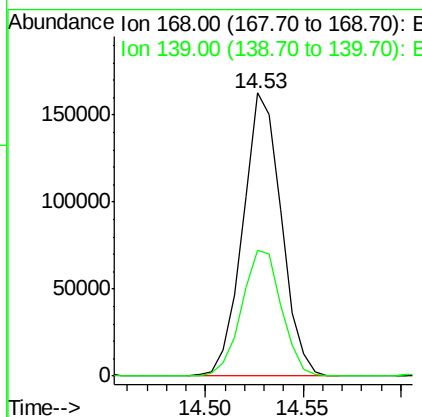
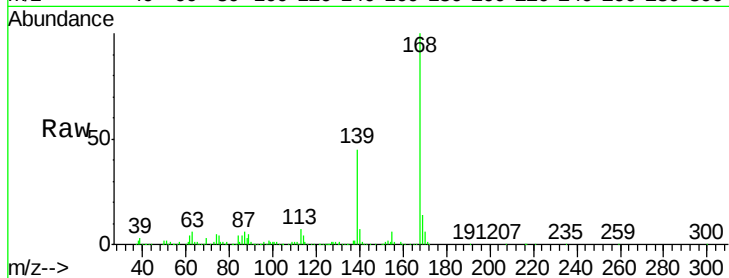
Ion Ratio Lower Upper

168 100

139 44.6 37.1 55.7

Manual Integrations
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#59

Fluorene

Concen: 31.07 ng/ul

RT: 15.18 min Scan# 2127

Delta R.T. 0.01 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

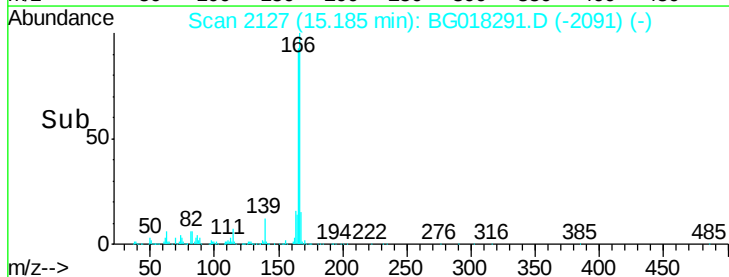
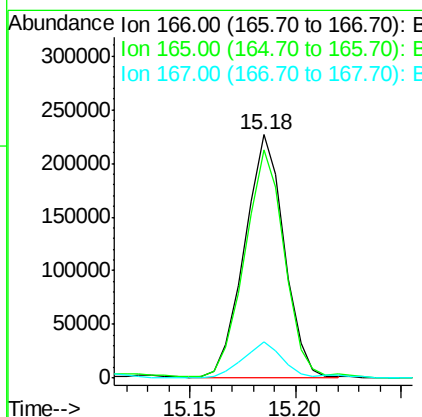
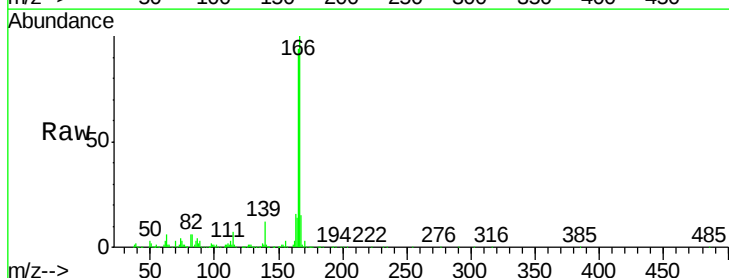
Tgt Ion:166 Resp: 293788

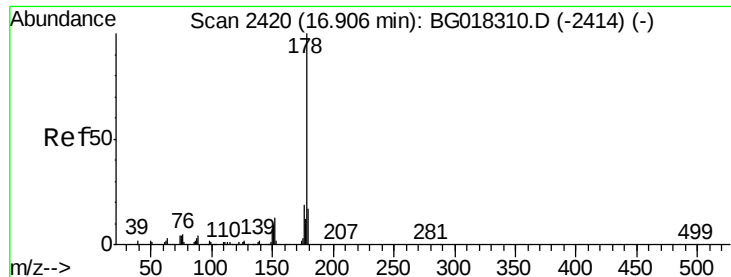
Ion Ratio Lower Upper

166 100

165 93.6 72.4 108.6

167 15.1 11.4 17.0





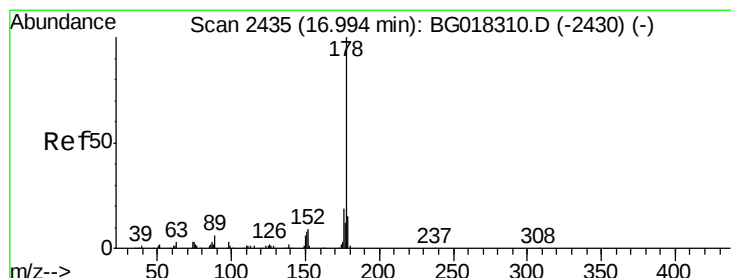
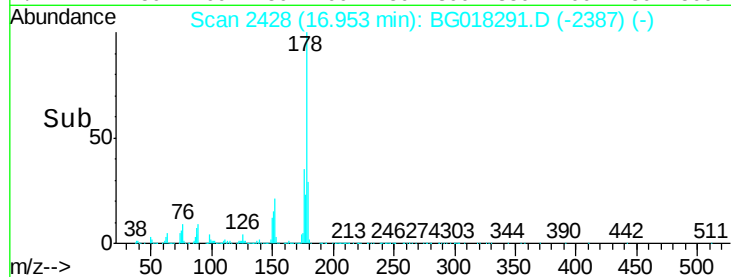
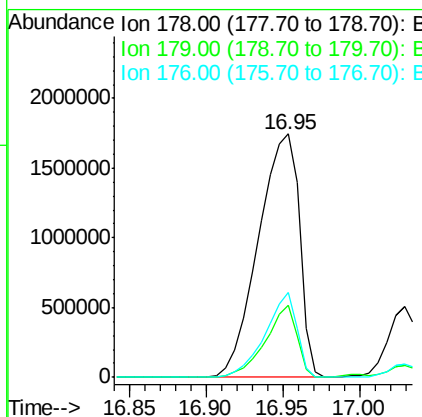
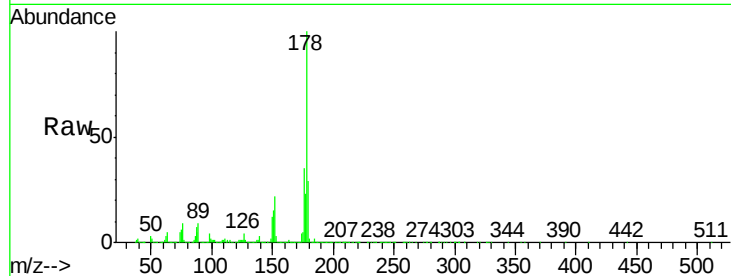
#70
Phenanthrene
Concen: 330.09 ng/ul m
RT: 16.95 min Scan# 2428
Delta R.T. 0.04 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Instrument :
BNA_G
ClientSampleId :
C01J2RE

Tgt Ion:178 Resp: 3269807
Ion Ratio Lower Upper
178 100
179 29.4 12.2 18.4#
176 34.8 14.5 21.7#

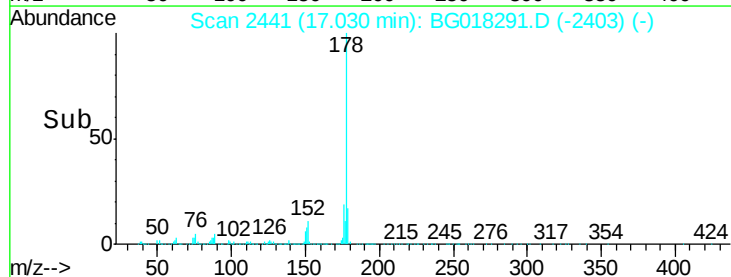
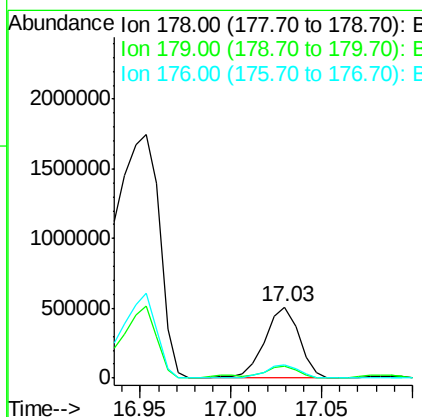
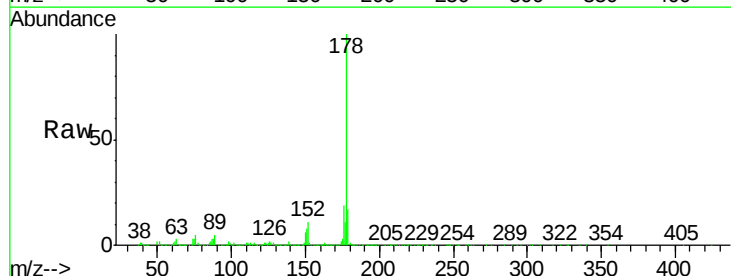
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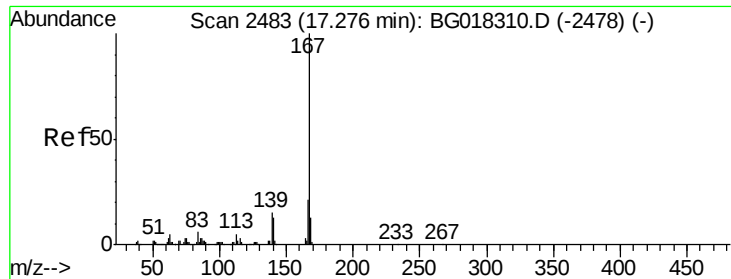
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#72
Anthracene
Concen: 68.33 ng/ul
RT: 17.03 min Scan# 2441
Delta R.T. 0.02 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion:178 Resp: 675453
Ion Ratio Lower Upper
178 100
179 16.8 12.2 18.4
176 18.9 15.3 22.9





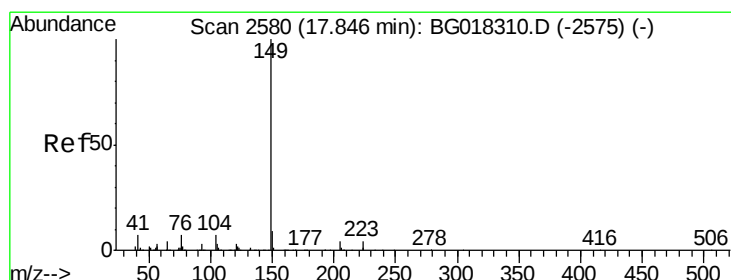
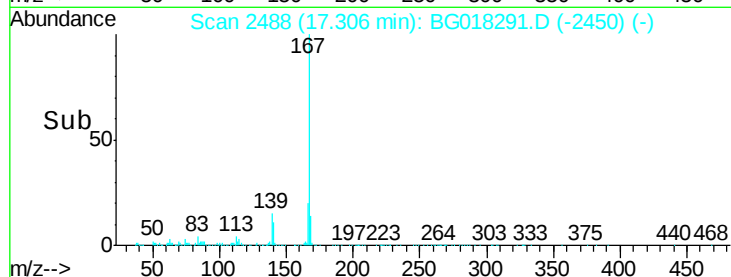
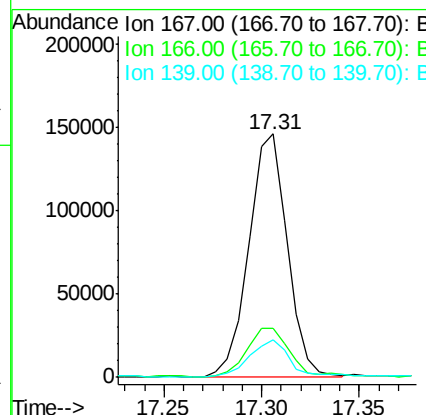
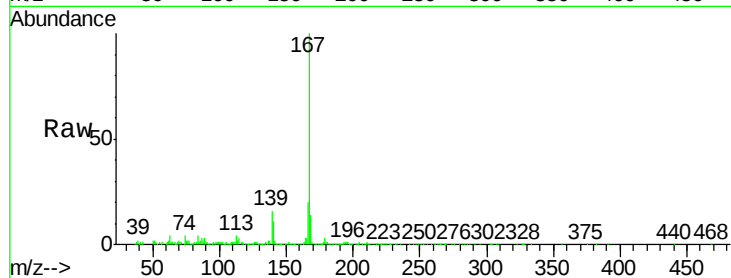
#75
 Carbazole
 Concen: 23.78 ng/ul
 RT: 17.31 min Scan# 2488
 Delta R.T. 0.02 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Instrument :
 BNA_G
 ClientSampleId :
 C01J2RE

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	198371		
166	20.3	17.8	26.8	
139	15.6	10.6	16.0	

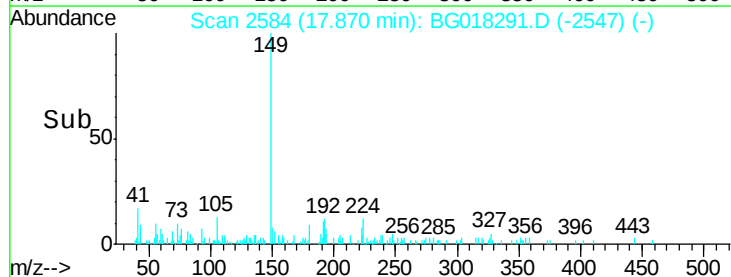
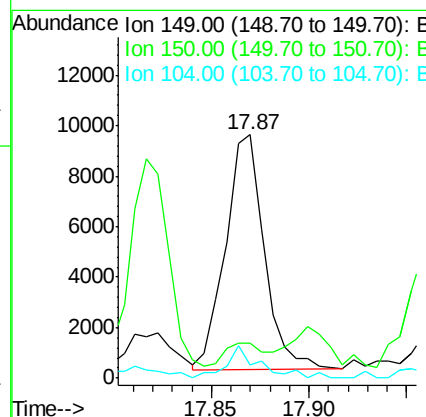
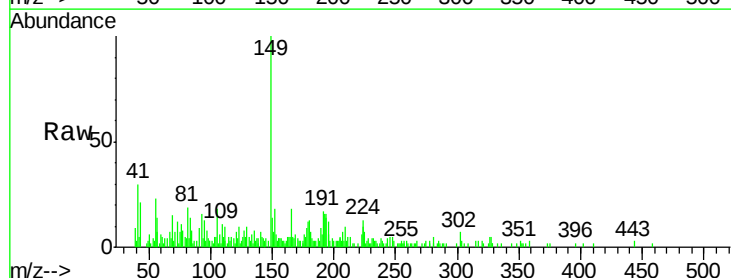
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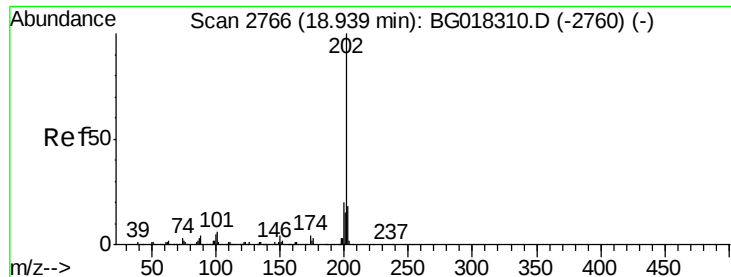
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#76
 Di-n-butylphthalate
 Concen: 1.10 ng/ul
 RT: 17.87 min Scan# 2584
 Delta R.T. 0.02 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	12836		
150	14.4	7.4	11.2#	
104	5.2	5.5	8.3#	





#77

Fluoranthene

Concen: 326.18 ng/ul

RT: 18.99 min Scan# 2775

Delta R.T. 0.05 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

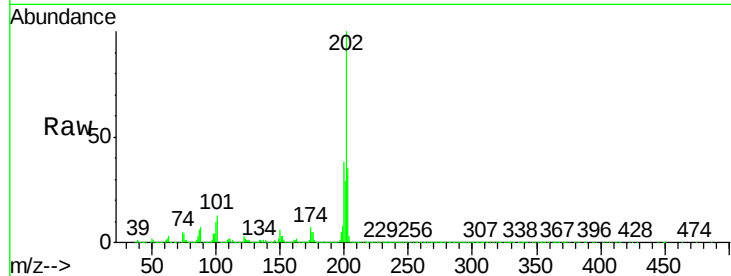
ClientSampleId :

C01J2RE

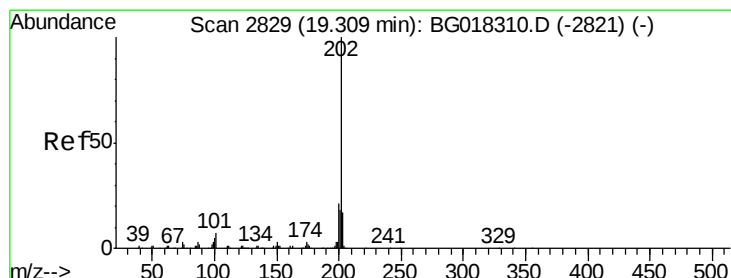
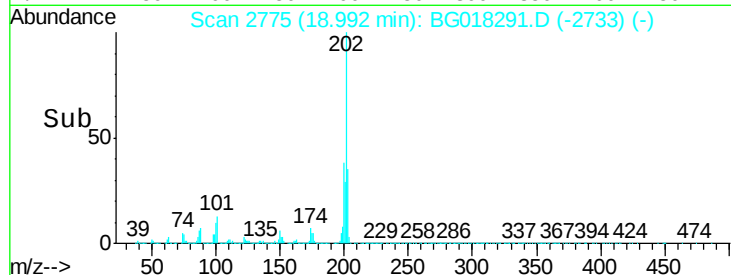
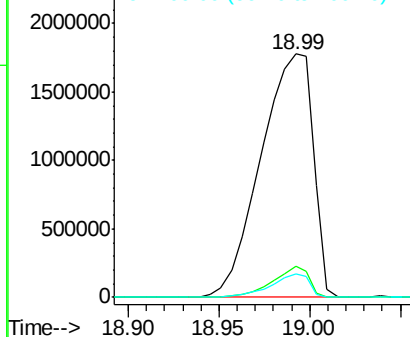
Tgt Ion:	202	Resp:	3583864
Ion Ratio	Lower	Upper	
202	100		
101	12.6	6.2	9.2#
100	9.6	4.6	6.8#

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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



#80

Pyrene

Concen: 227.03 ng/ul

RT: 19.36 min Scan# 2837

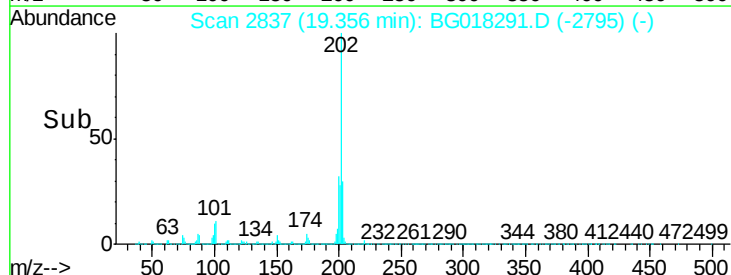
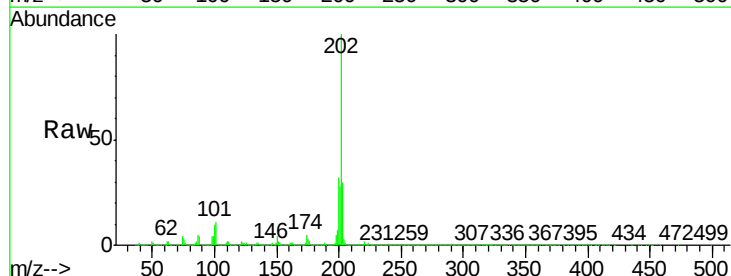
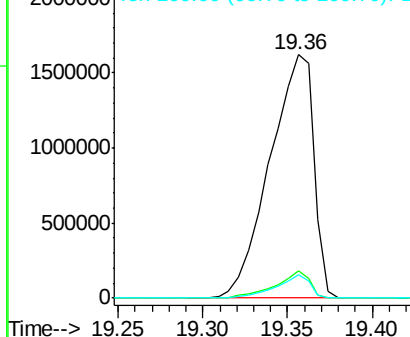
Delta R.T. 0.05 min

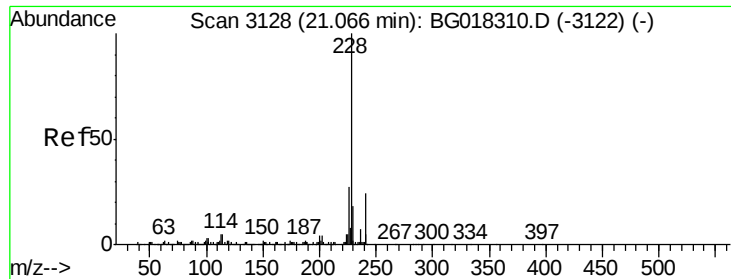
Lab File: BG018291.D

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Tgt Ion:	202	Resp:	2911540
Ion Ratio	Lower	Upper	
202	100		
101	11.4	6.2	9.2#
100	9.7	4.6	7.0#

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





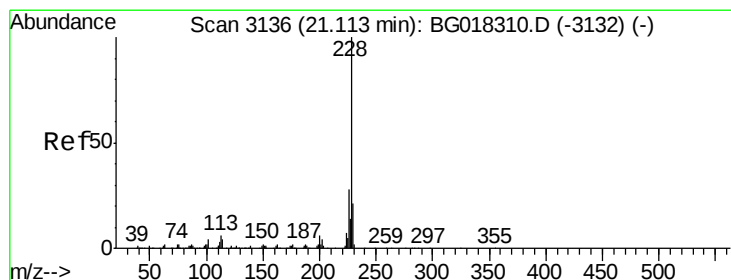
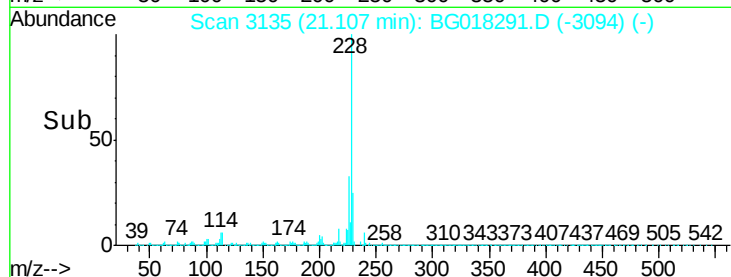
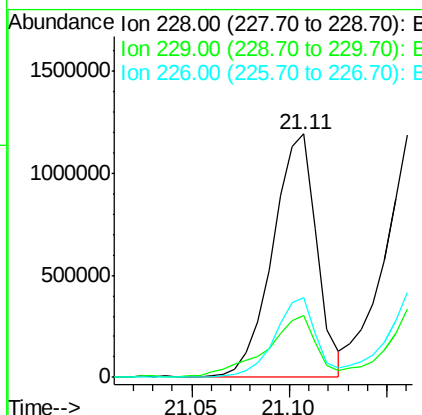
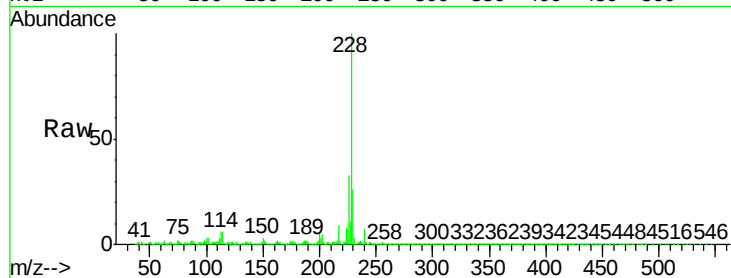
#83
Benzo(a)anthracene
Concen: 190.09 ng/ul
RT: 21.11 min Scan# 3135
Delta R.T. 0.04 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Instrument :
BNA_G
ClientSampleId :
C01J2RE

Tgt Ion	Ratio	Lower	Upper
228	100		
229	25.6	16.3	24.5#
226	32.7	21.2	31.8#

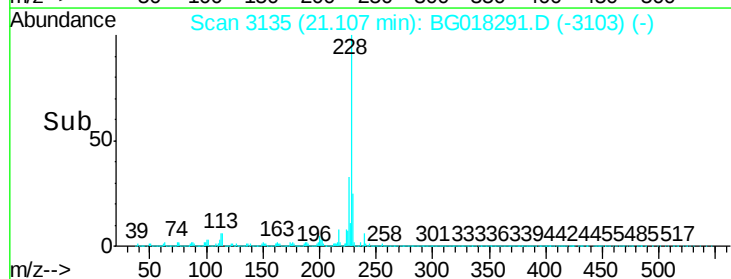
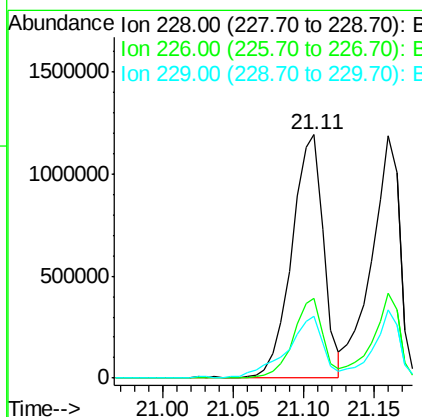
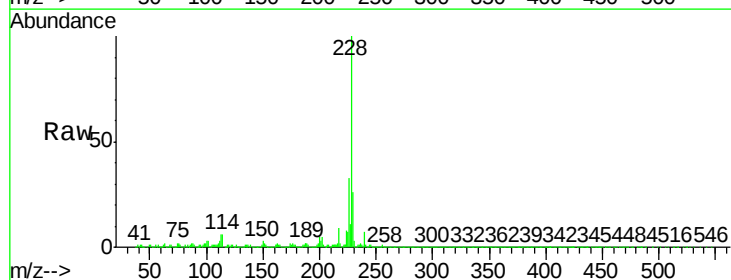
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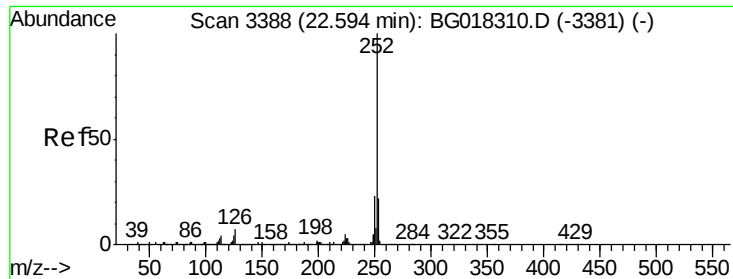
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#85
Chrysene
Concen: 214.42 ng/ul m
RT: 21.11 min Scan# 3135
Delta R.T. -0.01 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.7	23.0	34.6
229	25.6	15.9	23.9#





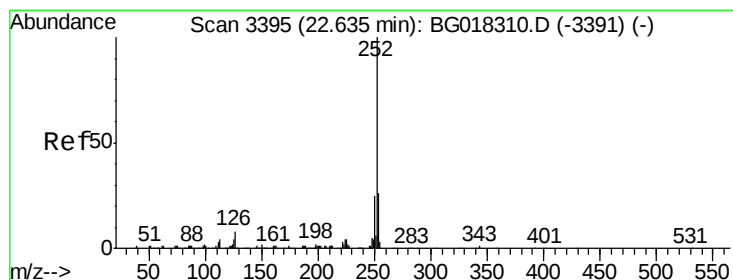
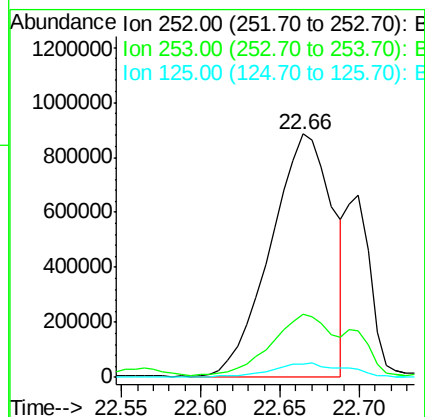
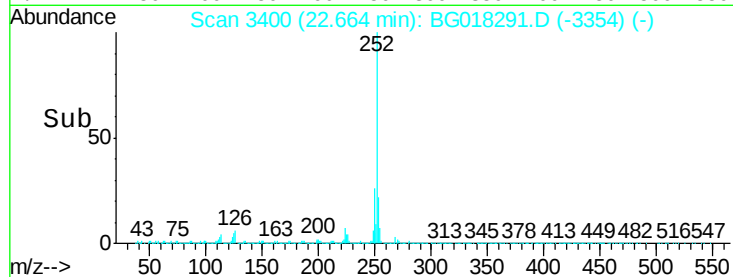
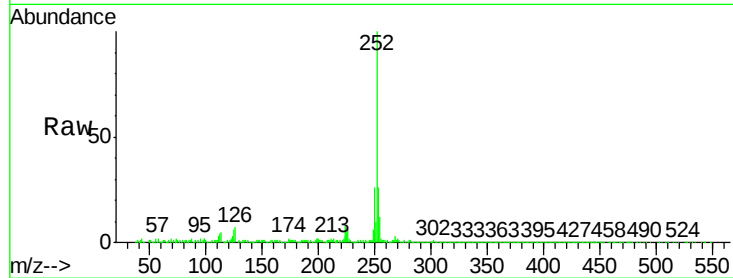
#88
 Benzo(b)fluoranthene
 Concen: 256.98 ng/ul
 RT: 22.66 min Scan# 3400
 Delta R.T. 0.07 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Instrument :
 BNA_G
 ClientSampled :
 C01J2RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.1	18.1	27.1
125	5.6	3.1	4.7

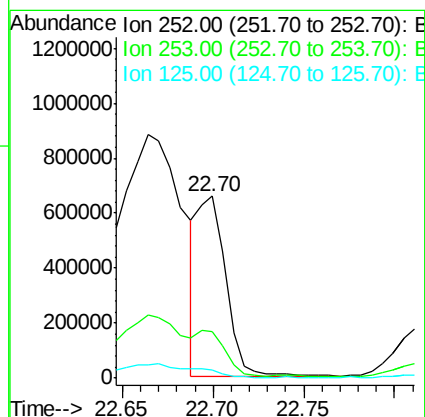
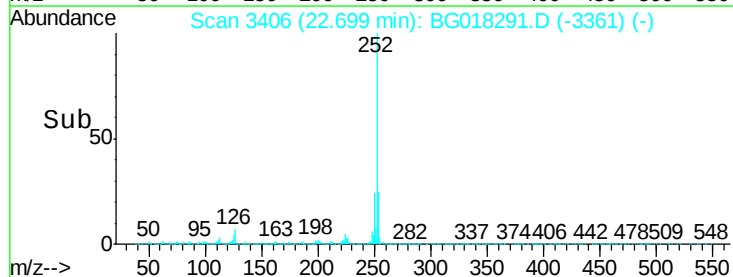
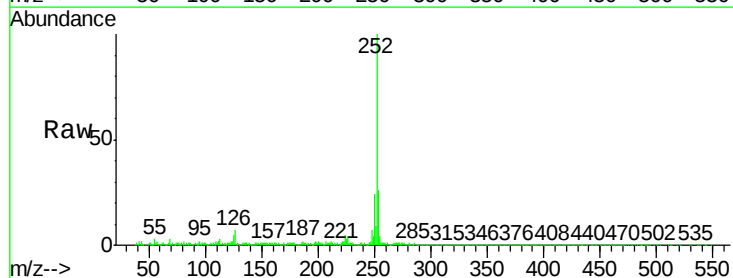
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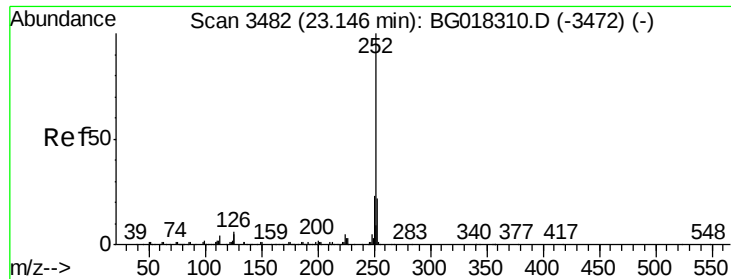
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#89
 Benzo(k)fluoranthene
 Concen: 79.62 ng/ul
 RT: 22.70 min Scan# 3406
 Delta R.T. 0.06 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	16.4	24.6
125	4.8	3.4	5.2





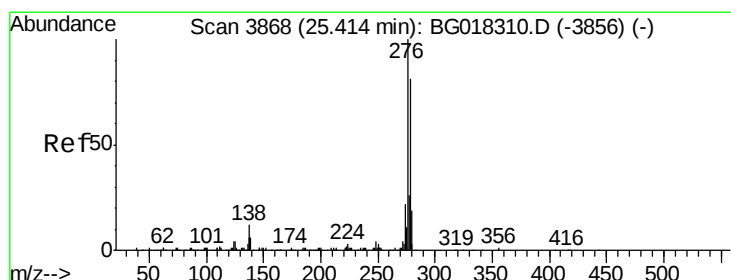
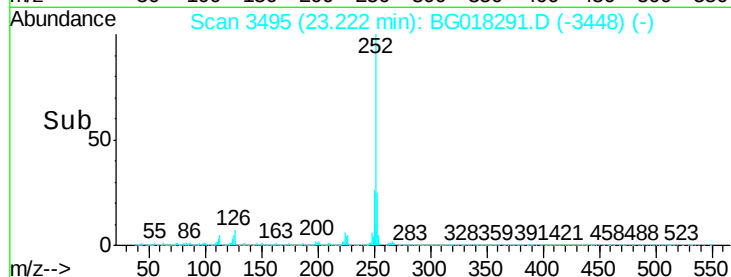
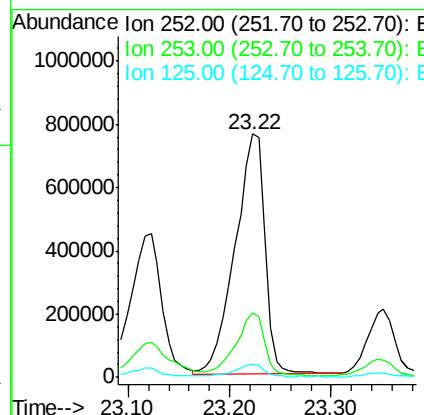
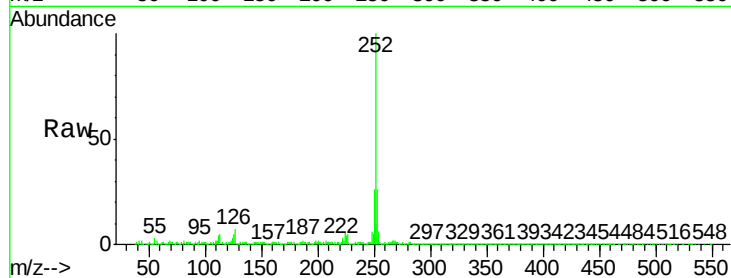
#91
Benzo(a)pyrene
Concen: 192.78 ng/ul
RT: 23.22 min Scan# 3495
Delta R.T. 0.08 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Instrument :
BNA_G
ClientSampleId :
C01J2RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.2	18.9	28.3
125	5.4	3.2	4.8

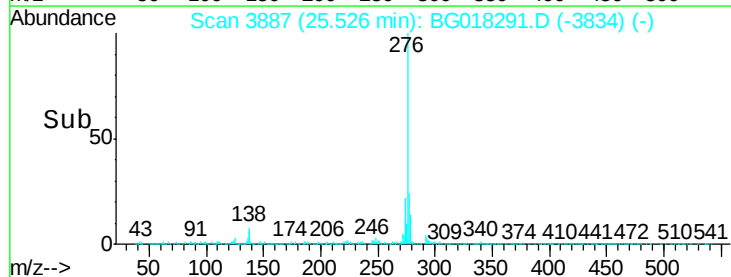
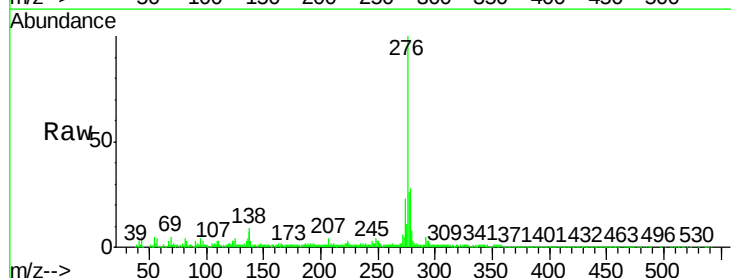
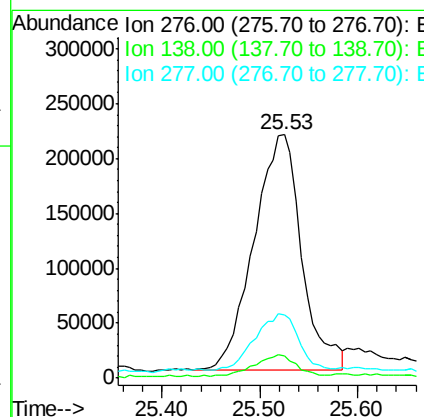
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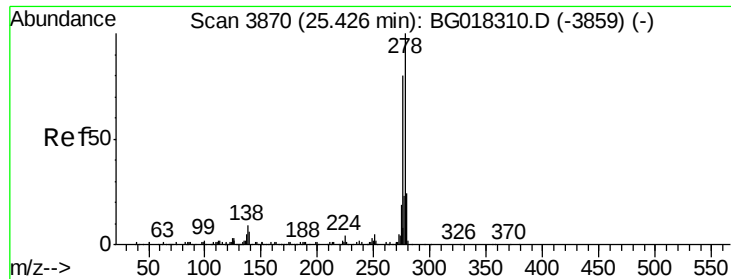
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#92
Indeno(1,2,3-cd)pyrene
Concen: 73.37 ng/ul
RT: 25.53 min Scan# 3887
Delta R.T. 0.11 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	8.9	8.2	12.4
277	25.8	20.1	30.1





#93

Dibenzo(a,h)anthracene

Concen: 20.78 ng/ul

RT: 25.52 min Scan# 3886

Delta R.T. 0.09 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

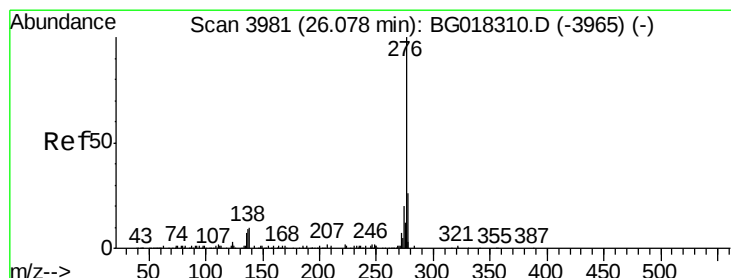
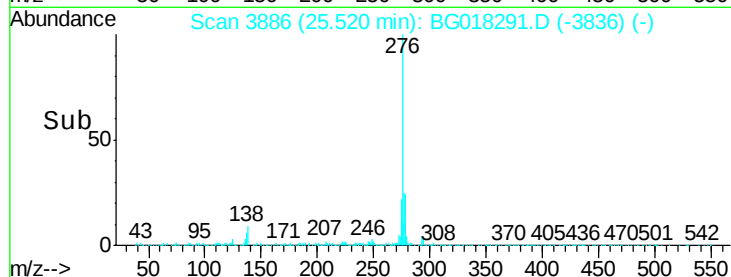
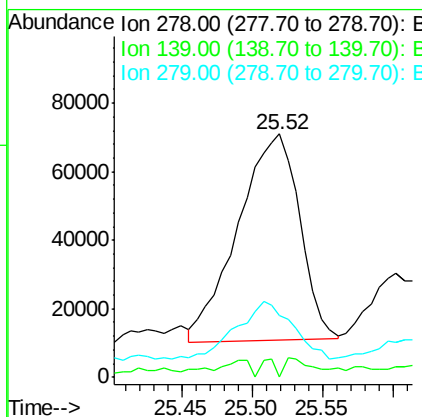
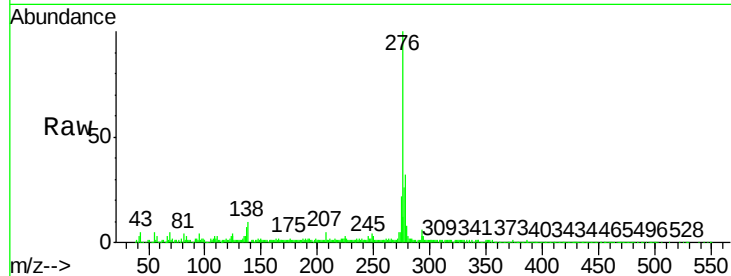
ClientSampleId :

C01J2RE

Tgt Ion:	278	Resp:	182977
Ion Ratio	Lower	Upper	
278	100		
139	0.0	5.8	8.8#
279	25.3	19.8	29.6

Manual Integrations
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#94

Benzo(g,h,i)perylene

Concen: 67.40 ng/ul

RT: 26.20 min Scan# 4001

Delta R.T. 0.11 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Tgt Ion:	276	Resp:	549005
Ion Ratio	Lower	Upper	
276	100		
138	7.9	6.0	9.0
277	27.2	21.1	31.7

