

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080415\
 Data File : BG018262.D
 Acq On : 4 Aug 2015 20:40
 Operator : UM/TP
 Sample : G3109-15
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01W3

Manual Integrations
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 8/7/2015 4:40:26 PM

Quant Time: Aug 14 03:03:37 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 05 02:27:11 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.46	152	31999	20.00	ng/ul	0.00
18) Naphthalene-d8	10.24	136	151737	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.14	164	91975	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.90	188	142288	20.00	ng/ul	0.00
78) Chrysene-d12	21.12	240	126490	20.00	ng/ul	0.01
86) Perylene-d12	23.30	264	117374m	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.93	96	1695	4.00	ng/uL	0.00
5) Phenol-d5	6.66	99	69015	23.99	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.80	67	35379	24.06	ng/ul	0.00
9) 2-Chlorophenol-d4	6.99	132	57216	26.33	ng/ul	0.00
13) 4-Methylphenol-d8	8.19	113	38964	16.63	ng/ul	0.00
19) Nitrobenzene-d5	8.61	128	31178	26.08	ng/ul	0.00
22) 2-Nitrophenol-d4	9.32	143	37105	27.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.88	165	56762	23.41	ng/ul	0.00
29) 4-Chloroaniline-d4	10.39	131	8662	2.87	ng/ul	0.00
44) Dimethylphthalate-d6	13.55	166	188198	26.48	ng/ul	0.00
47) Acenaphthylene-d8	13.82	160	200349	24.31	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	18638	14.17	ng/ul	0.00
58) Fluorene-d10	15.14	176	144716	22.50	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.29	200	17159	17.27	ng/ul	0.00
71) Anthracene-d10	17.00	188	153127	24.75	ng/ul	0.00
79) Pyrene-d10	19.32	212	113143	18.49	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.16	264	139810m	23.55	ng/ul	0.03

Target Compounds

						Qvalue
16) 4-Methylphenol	8.26	108	4463	1.75	ng/ul#	66
28) Naphthalene	10.29	128	95942	13.13	ng/ul	97
34) 2-Methylnaphthalene	11.92	142	50828	8.79	ng/ul	99
41) 1,1'-Biphenyl	12.96	154	23941	3.64	ng/ul#	89
45) Dimethylphthalate	13.60	163	72884	10.31	ng/ul	97
48) Acenaphthylene	13.86	152	19959	2.44	ng/ul#	86
50) Acenaphthene	14.20	153	180480	33.85	ng/ul	98
54) Dibenzofuran	14.54	168	145707	18.15	ng/ul#	79
59) Fluorene	15.19	166	259452	37.45	ng/ul	100
70) Phenanthrene	16.95	178	2178727m	301.41	ng/ul	
72) Anthracene	17.03	178	555164	77.20	ng/ul	99
75) Carbazole	17.31	167	84400	14.12	ng/ul	97
76) Di-n-butylphthalate	17.88	149	71113	8.95	ng/ul#	96
77) Fluoranthene	18.99	202	1741652	219.38	ng/ul#	95
80) Pyrene	19.35	202	1669799	217.64	ng/ul#	96
83) Benzo(a)anthracene	21.10	228	818857	120.21	ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.04	149	92255	21.94	ng/ul#	96
85) Chrysene	21.16	228	697180m	111.73	ng/ul	
88) Benzo(b)fluoranthene	22.66	252	930128m	131.91	ng/ul	
89) Benzo(k)fluoranthene	22.69	252	286696m	44.24	ng/ul	
91) Benzo(a)pyrene	23.21	252	679905m	107.78	ng/ul	
92) Indeno(1,2,3-cd)pyrene	25.51	276	331521m	45.43	ng/ul	
93) Dibenzo(a,h)anthracene	25.52	278	102455m	16.39	ng/ul	

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Quant Time: Aug 14 03:03:37 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 05 02:27:11 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Benzo(g,h,i)perylene	26.19	276	293889m	49.31	ng/ul	

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

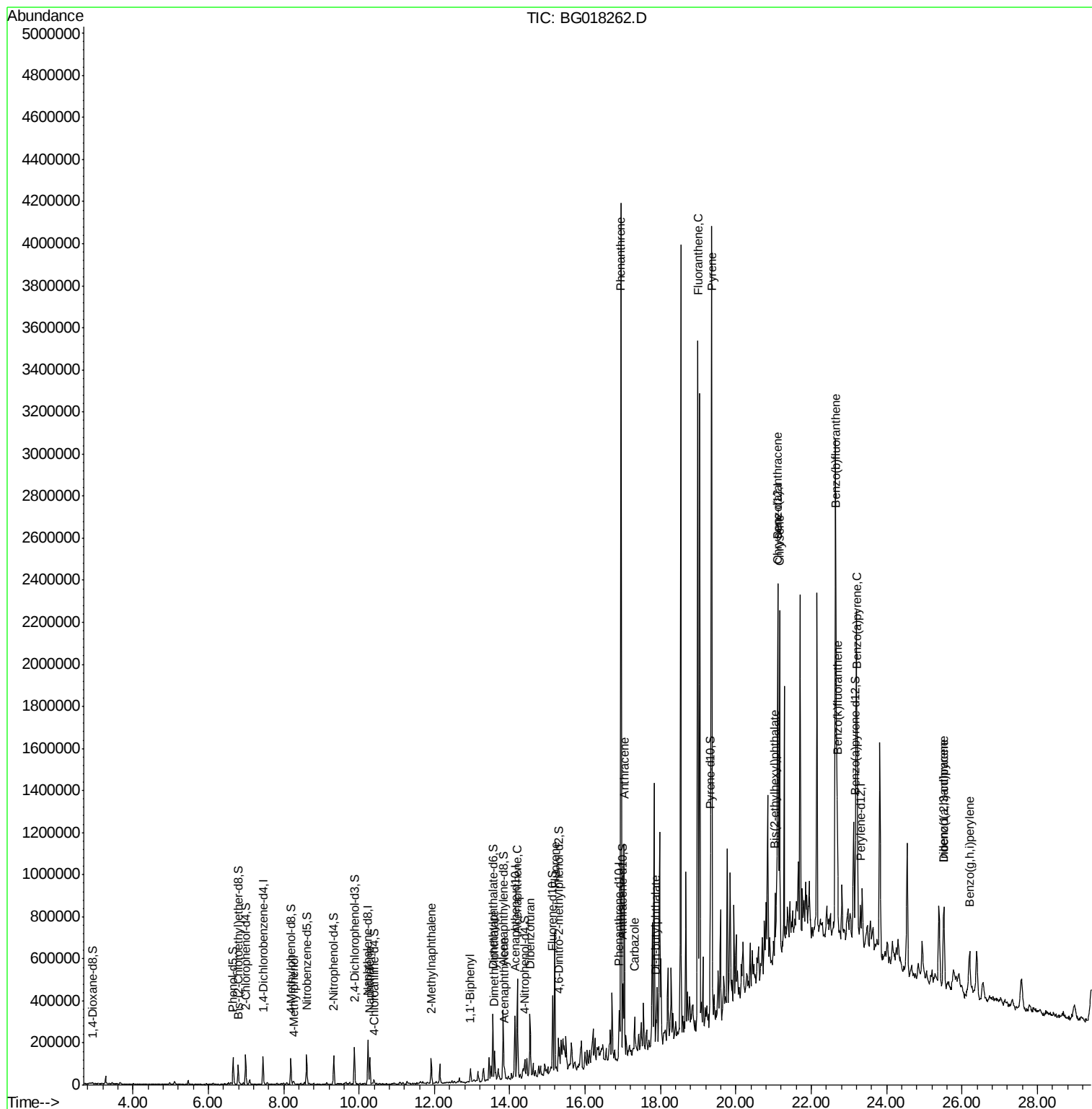
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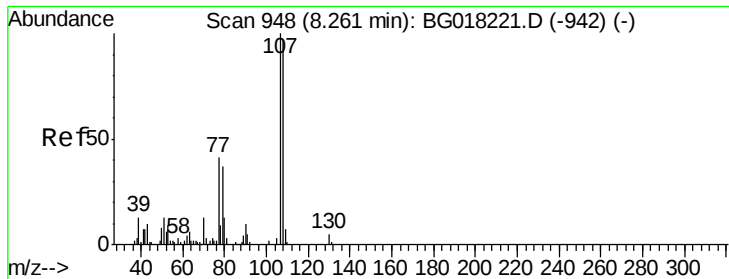
Instrument :
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#16

4-Methylphenol

Concen: 1.75 ng/ul

RT: 8.26 min Scan# 947

Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

ClientSampleId :

C01W3

Tgt Ion:108 Resp: 4463

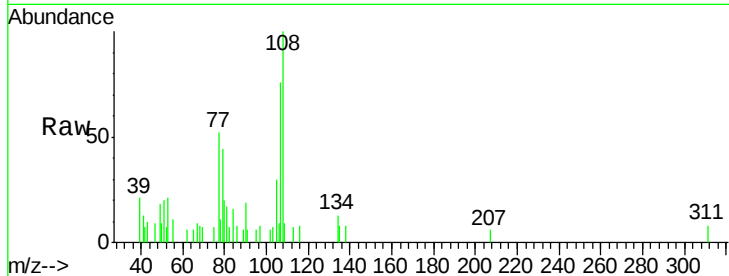
Ion Ratio Lower Upper

108 100

107 76.5 90.4 135.6#

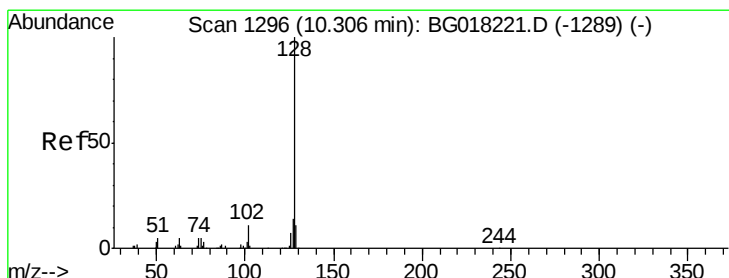
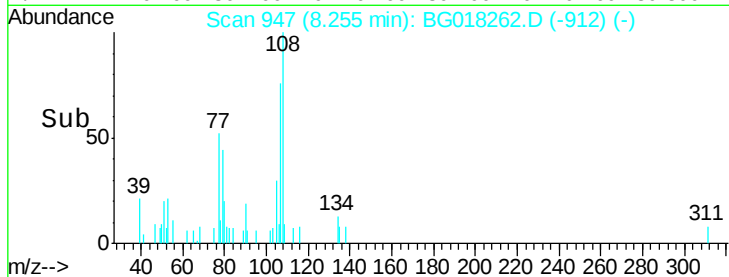
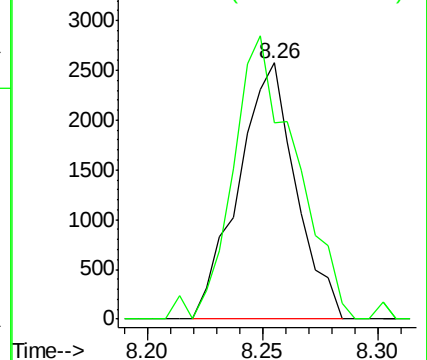
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Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#28

Naphthalene

Concen: 13.13 ng/ul

RT: 10.29 min Scan# 1293

Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

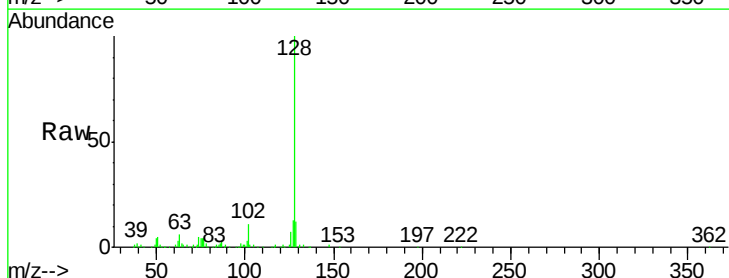
Tgt Ion:128 Resp: 95942

Ion Ratio Lower Upper

128 100

129 12.3 9.1 13.7

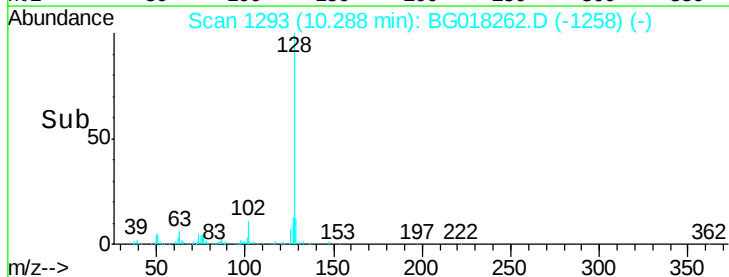
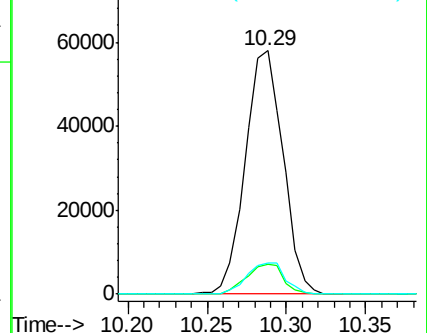
127 12.6 11.2 16.8

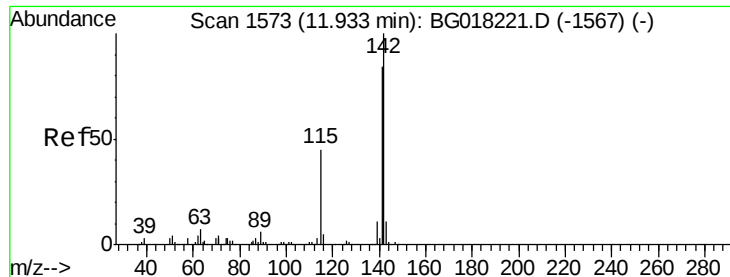


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





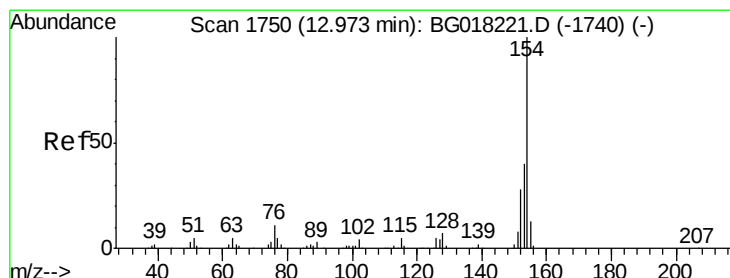
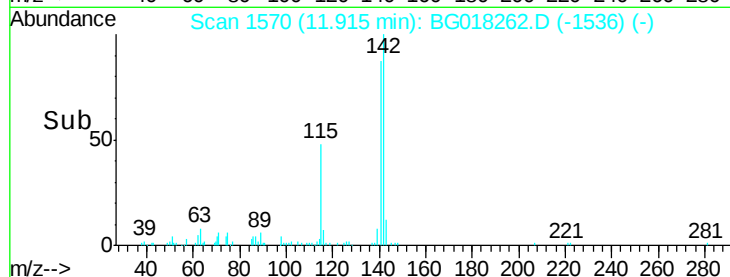
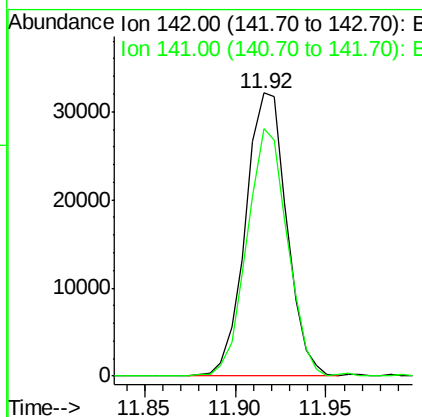
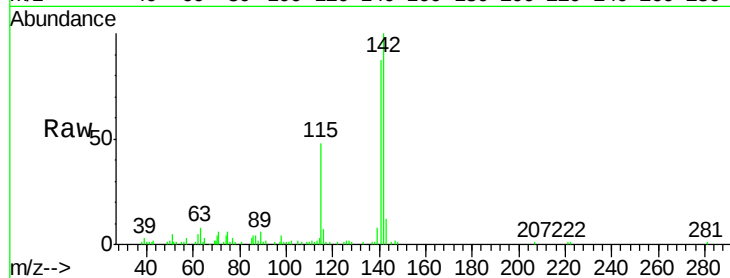
#34
2-Methylnaphthalene
Concen: 8.79 ng/ul
RT: 11.92 min Scan# 1570
Delta R.T. 0.00 min
Lab File: BG018262.D
Acq: 4 Aug 2015 20:40

Instrument :
BNA_G
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.3	105.5

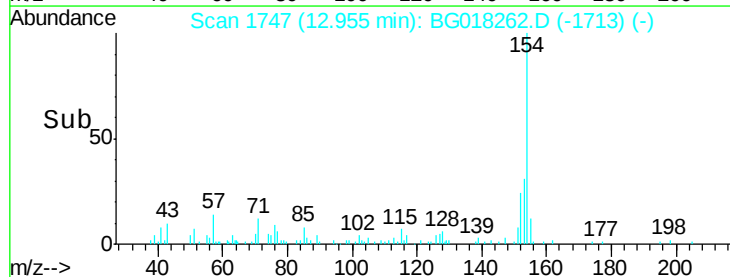
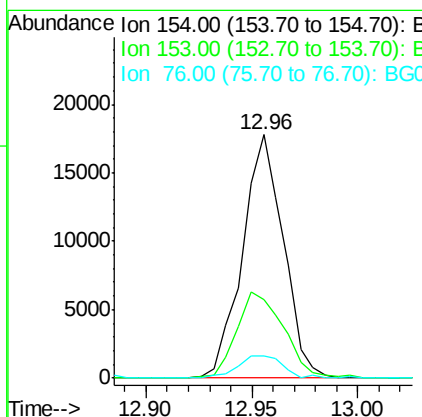
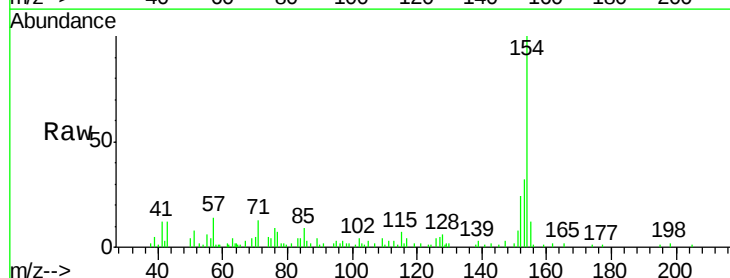
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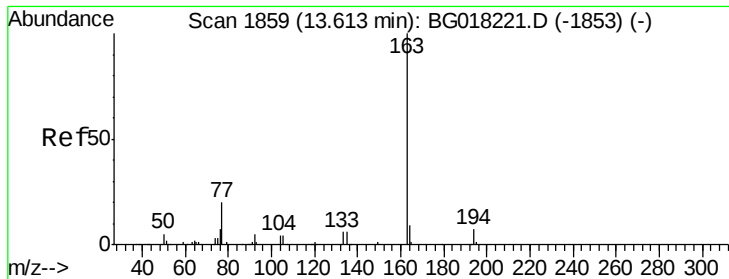
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#41
1,1'-Biphenyl
Concen: 3.64 ng/ul
RT: 12.96 min Scan# 1747
Delta R.T. 0.00 min
Lab File: BG018262.D
Acq: 4 Aug 2015 20:40

Tgt Ion	Ratio	Lower	Upper
154	100		
153	32.2	32.3	48.5#
76	9.3	7.4	11.0





#45

Dimethylphthalate

Concen: 10.31 ng/ul

RT: 13.60 min Scan# 1856

Delta R.T. 0.00 min

Lab File: BG018262.D

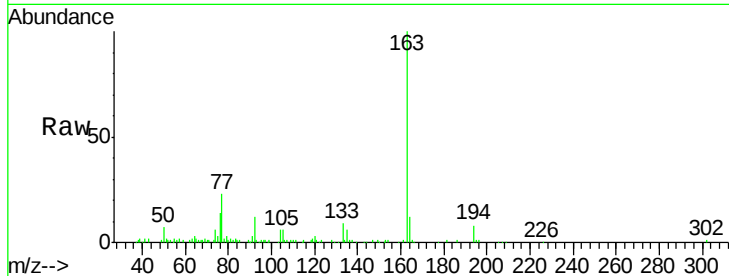
Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

ClientSampleId :

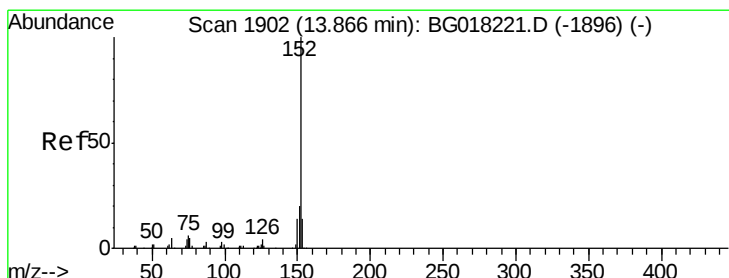
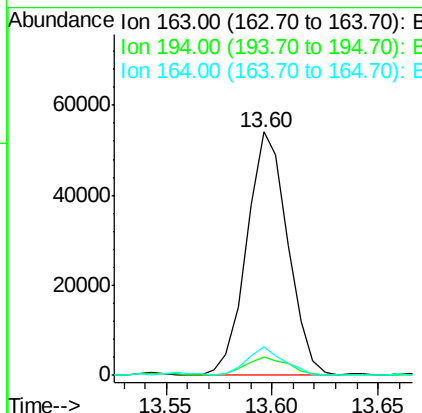
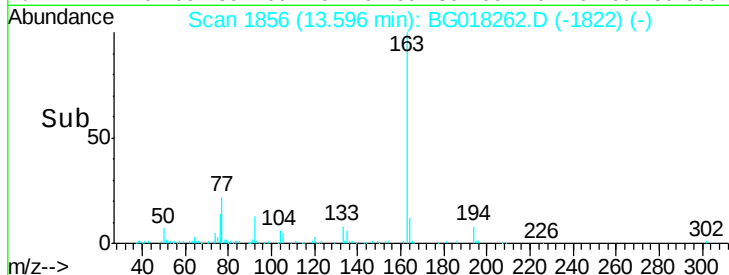
C01W3



Tgt Ion:	163	Resp:	72884
Ion Ratio	Lower	Upper	
163	100		
194	7.6	5.2	7.8
164	11.6	8.4	12.6

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#48

Acenaphthylene

Concen: 2.44 ng/ul

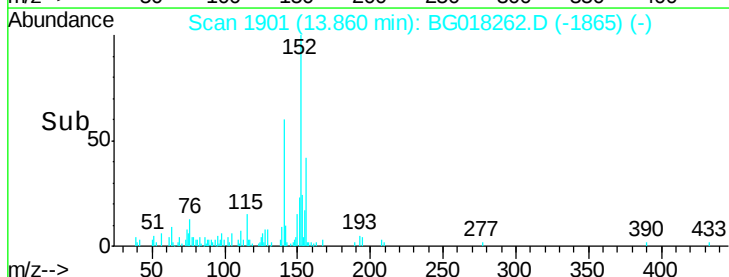
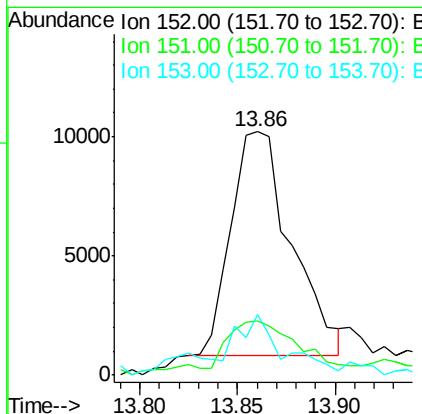
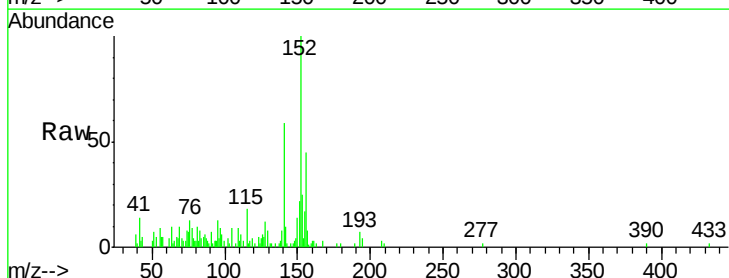
RT: 13.86 min Scan# 1901

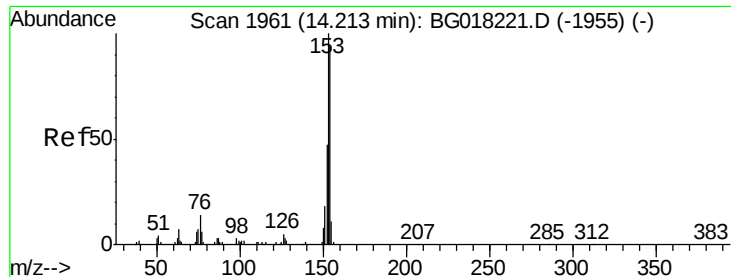
Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Tgt Ion:	152	Resp:	19959
Ion Ratio	Lower	Upper	
152	100		
151	22.1	16.0	24.0
153	24.9	11.0	16.4#





#50

Acenaphthene

Concen: 33.85 ng/ul

RT: 14.20 min Scan# 1959

Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

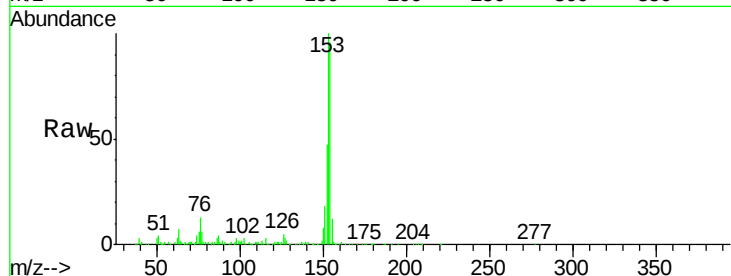
ClientSampleId :

C01W3

Tgt Ion:	153	Resp:	180480
Ion Ratio		Lower	Upper
153	100		
152	46.9	38.7	58.1
154	95.8	74.8	112.2

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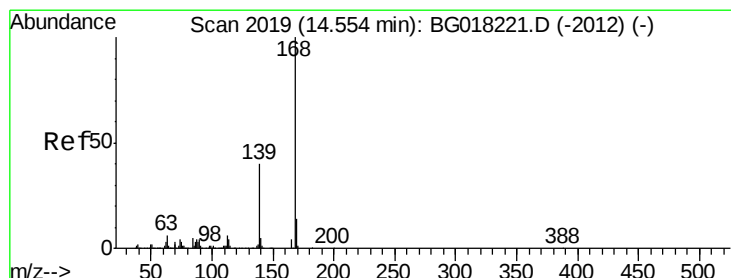
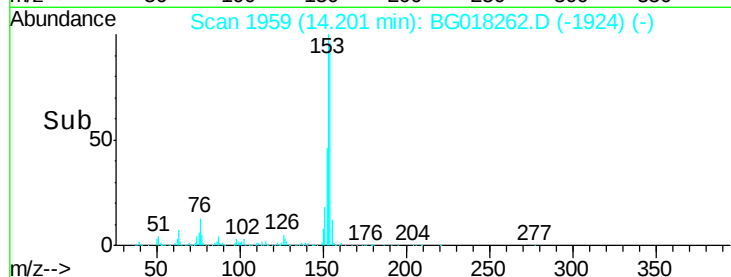
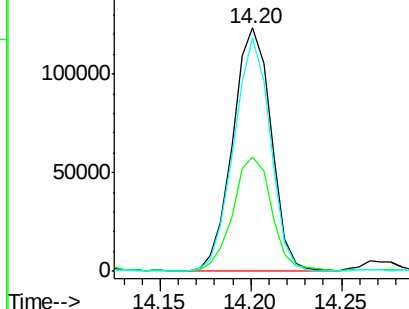
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 18.15 ng/ul

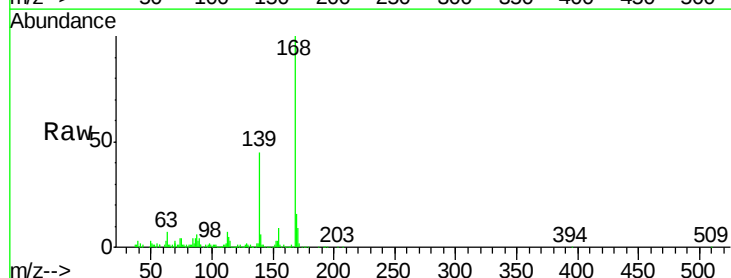
RT: 14.54 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BG018262.D

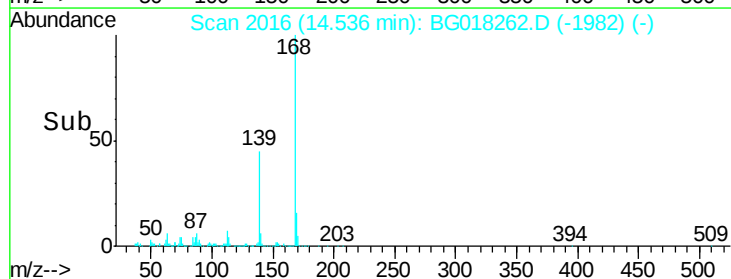
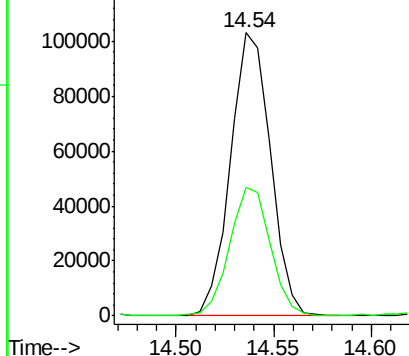
Acq: 4 Aug 2015 20:40

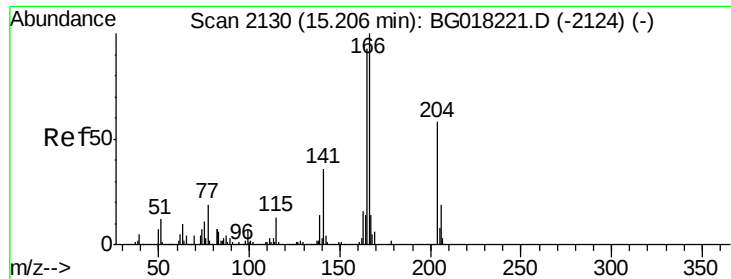
Tgt Ion:	168	Resp:	145707
Ion Ratio		Lower	Upper
168	100		
139	45.5	26.8	40.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





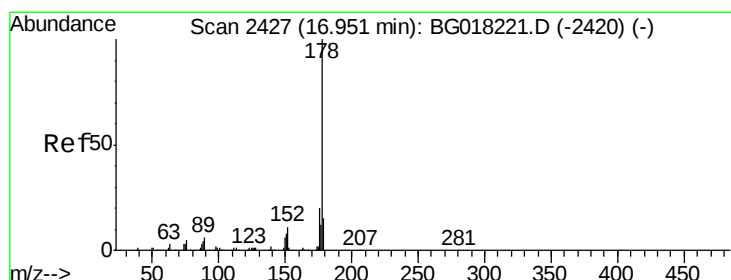
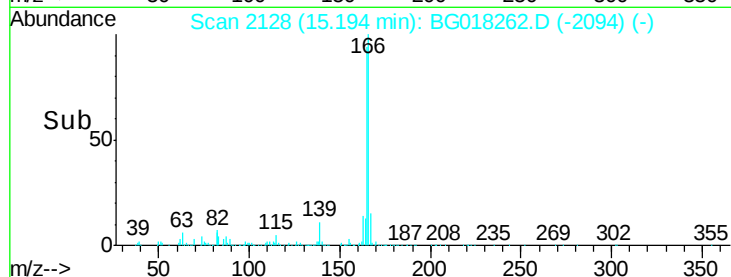
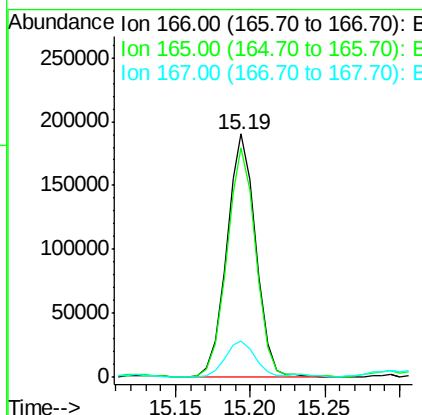
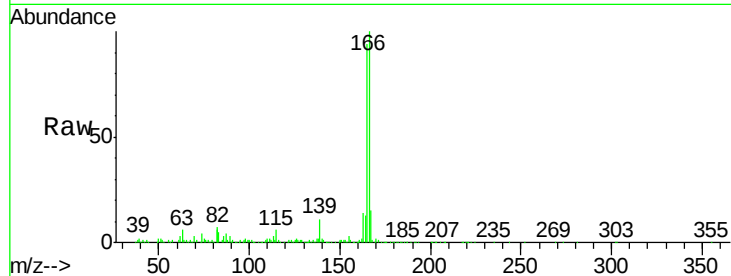
#59
 Fluorene
 Concen: 37.45 ng/ul
 RT: 15.19 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: BG018262.D
 Acq: 4 Aug 2015 20:40

Instrument :
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Tgt Ion	Ratio	Resp	Lower	Upper
166	100	259452		
165	94.1	75.1	112.7	
167	15.1	11.8	17.6	

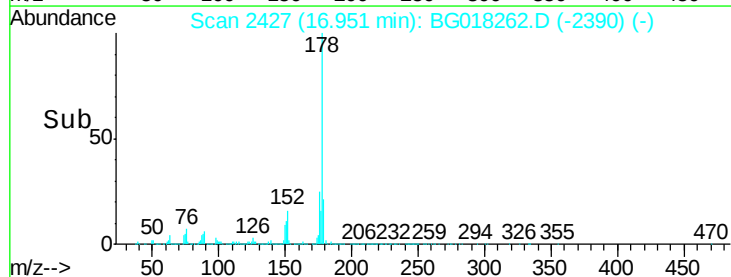
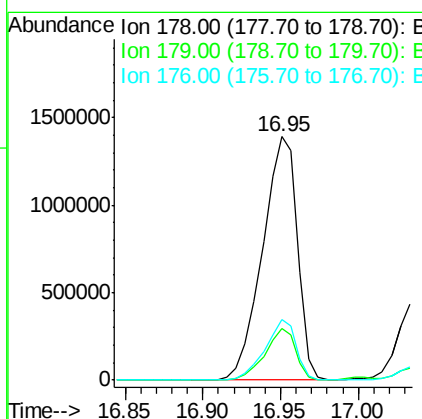
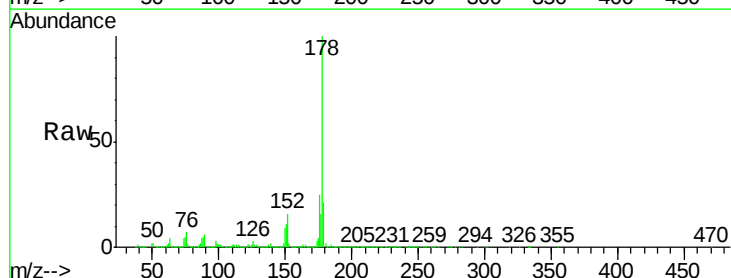
Manual Integrations
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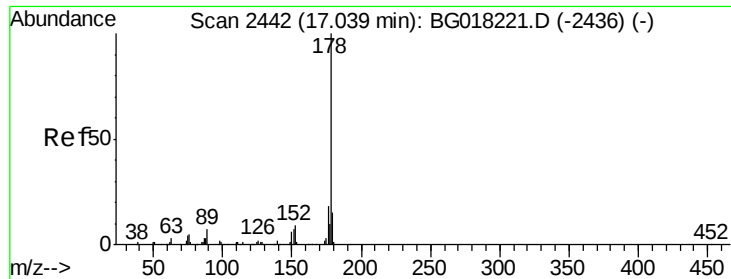
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 8/7/2015 4:40:26 PM



#70
 Phenanthrene
 Concen: 301.41 ng/ul m
 RT: 16.95 min Scan# 2427
 Delta R.T. 0.02 min
 Lab File: BG018262.D
 Acq: 4 Aug 2015 20:40

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2178727		
179	21.0	12.8	19.2#	
176	24.7	16.0	24.0#	





#72

Anthracene

Concen: 77.20 ng/ul

RT: 17.03 min Scan# 2441

Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

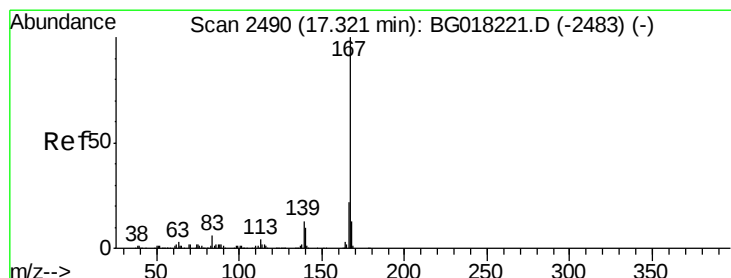
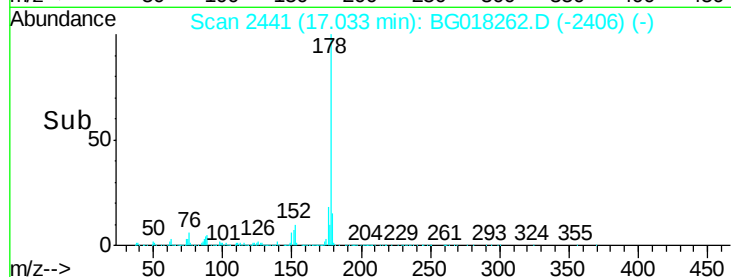
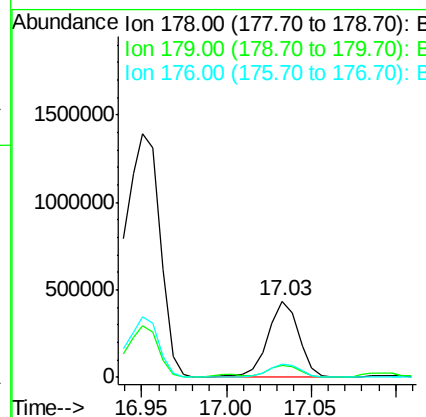
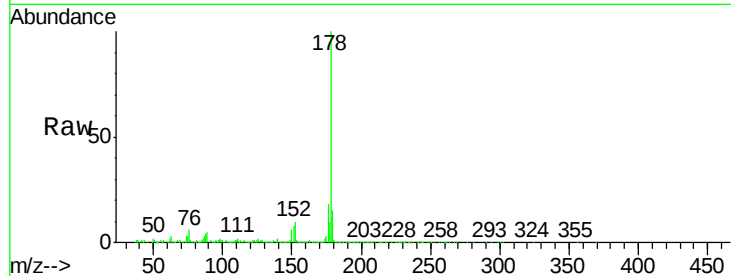
ClientSampleId :

C01W3

Tgt Ion:	178	Resp:	555164
Ion Ratio	Lower	Upper	
178	100		
179	15.5	12.2	18.2
176	18.2	14.8	22.2

Manual Integrations
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8/7/2015 4:40:26 PM



#75

Carbazole

Concen: 14.12 ng/ul

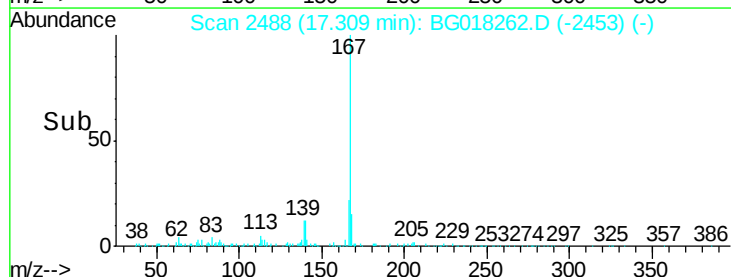
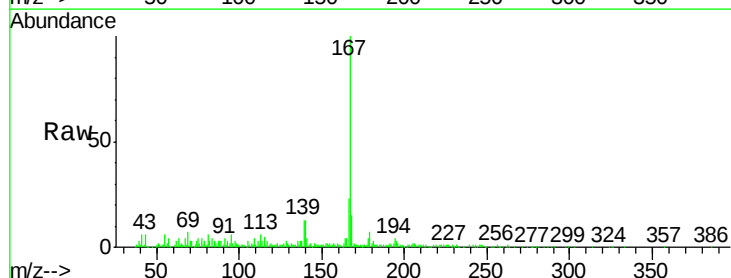
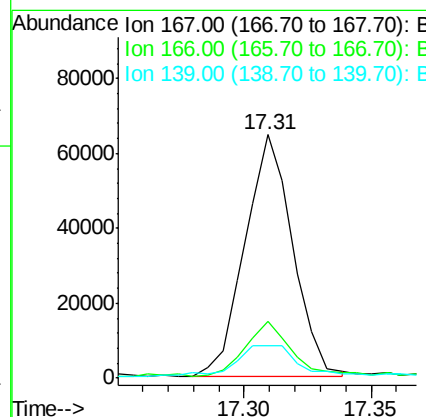
RT: 17.31 min Scan# 2488

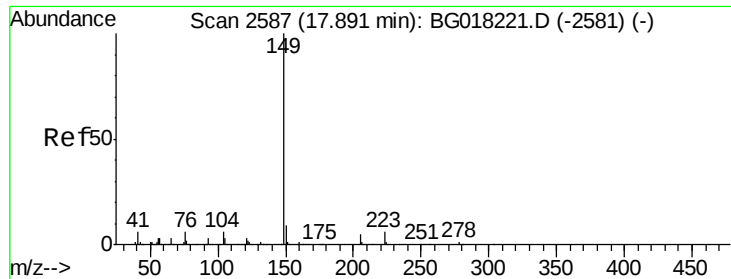
Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Tgt Ion:	167	Resp:	84400
Ion Ratio	Lower	Upper	
167	100		
166	23.4	17.5	26.3
139	13.2	10.1	15.1





#76

Di-n-butylphthalate

Concen: 8.95 ng/ul

RT: 17.88 min Scan# 2585

Delta R.T. 0.01 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

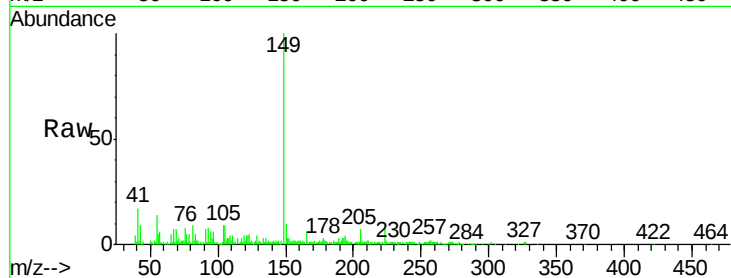
ClientSampleId :

C01W3

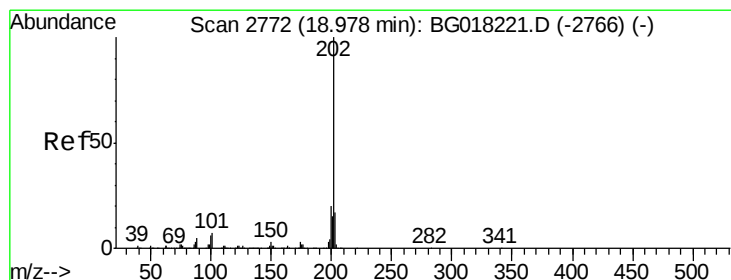
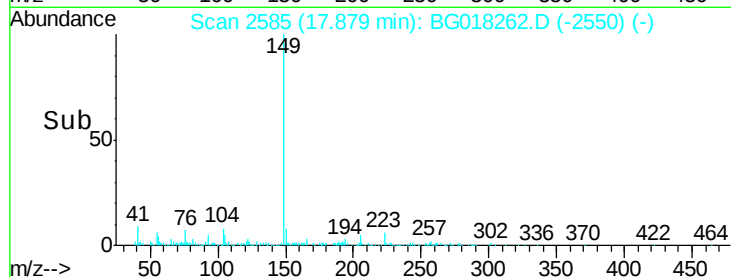
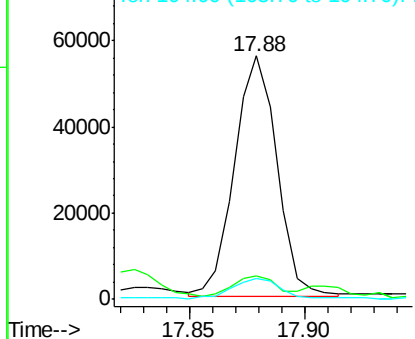
Tgt Ion:	149	Resp:	71113
Ion Ratio	Lower	Upper	
149	100		
150	9.7	7.7	11.5
104	8.7	3.6	5.4#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 219.38 ng/ul

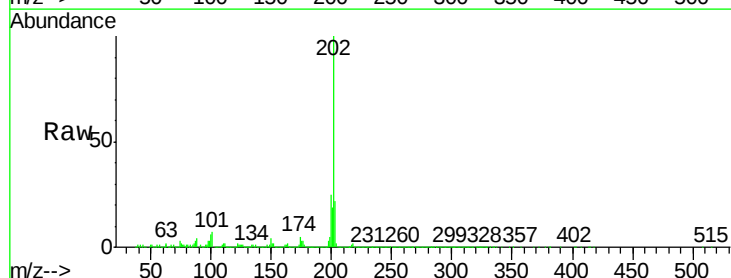
RT: 18.99 min Scan# 2774

Delta R.T. 0.03 min

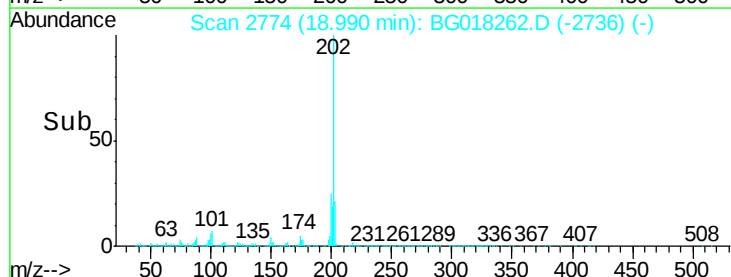
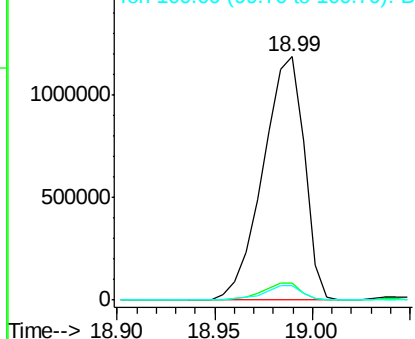
Lab File: BG018262.D

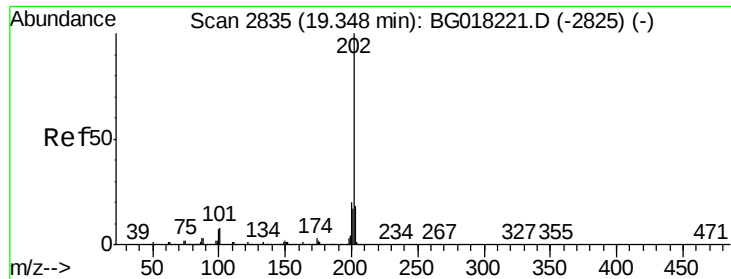
Acq: 4 Aug 2015 20:40

Tgt Ion:	202	Resp:	1741652
Ion Ratio	Lower	Upper	
202	100		
101	6.9	7.5	11.3#
100	5.7	5.5	8.3



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





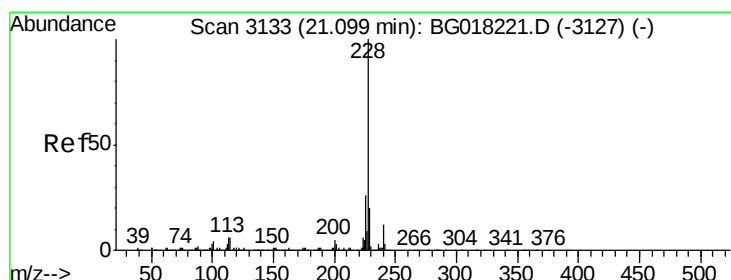
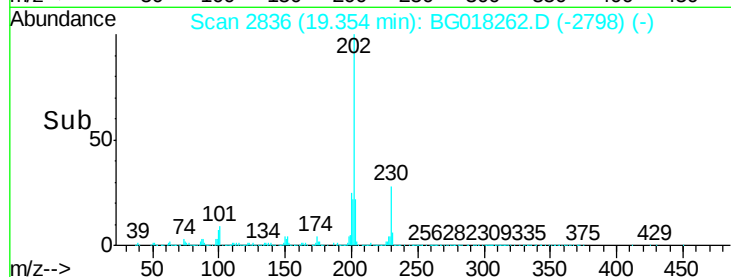
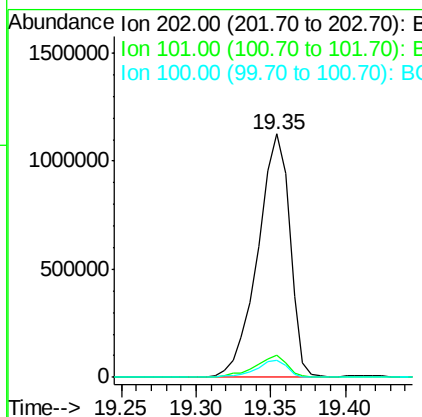
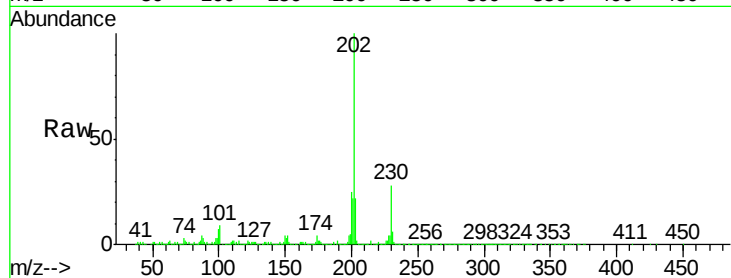
#80
 Pyrene
 Concen: 217.64 ng/ul
 RT: 19.35 min Scan# 2836
 Delta R.T. 0.03 min
 Lab File: BG018262.D
 Acq: 4 Aug 2015 20:40

Instrument :
 BNA_G
 ClientSampleId :
 C01W3

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1669799		
101	9.1	8.1	12.1	
100	7.0	7.4	11.0	

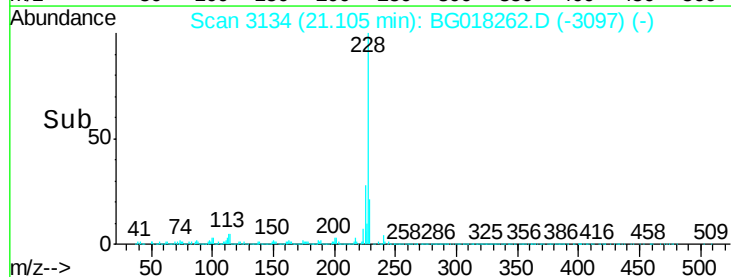
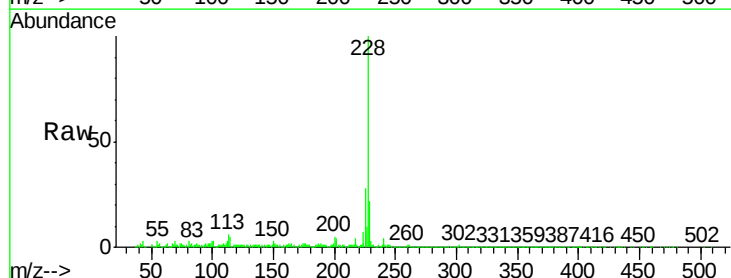
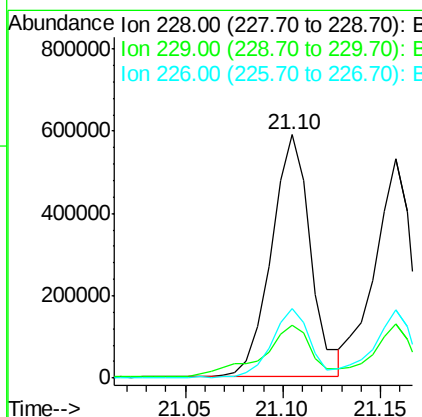
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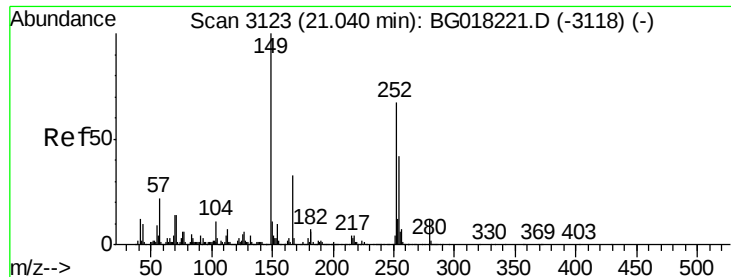
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#83
 Benzo(a)anthracene
 Concen: 120.21 ng/ul
 RT: 21.10 min Scan# 3134
 Delta R.T. 0.02 min
 Lab File: BG018262.D
 Acq: 4 Aug 2015 20:40

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	818857		
229	21.8	16.5	24.7	
226	28.3	21.5	32.3	





#84

Bis(2-ethylhexyl)phthalate

Concen: 21.94 ng/ul

RT: 21.04 min Scan# 3123

Delta R.T. 0.01 min

Lab File: BG018262.D

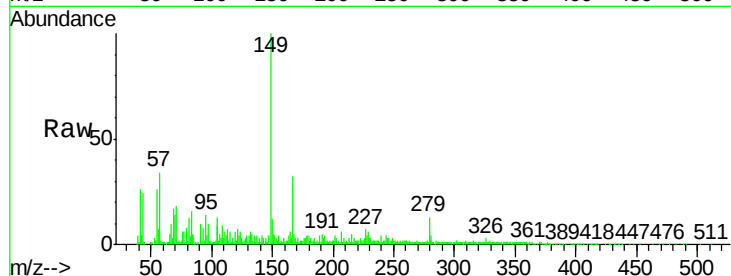
Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

ClientSampleId :

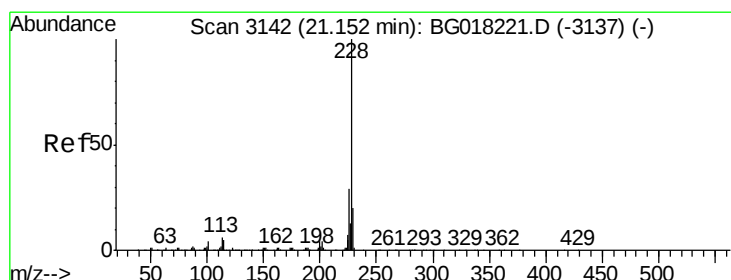
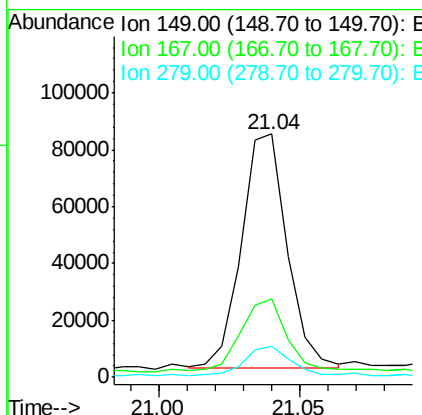
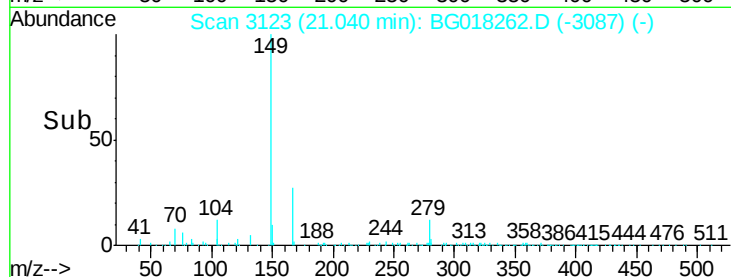
C01W3



Tgt Ion:	149	Resp:	92255
Ion Ratio	Lower	Upper	
149	100		
167	32.1	27.4	41.2
279	12.7	8.3	12.5#

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#85

Chrysene

Concen: 111.73 ng/ul m

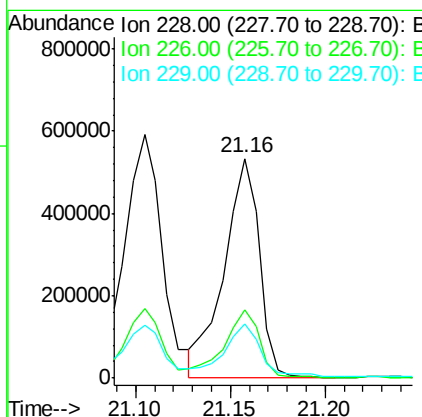
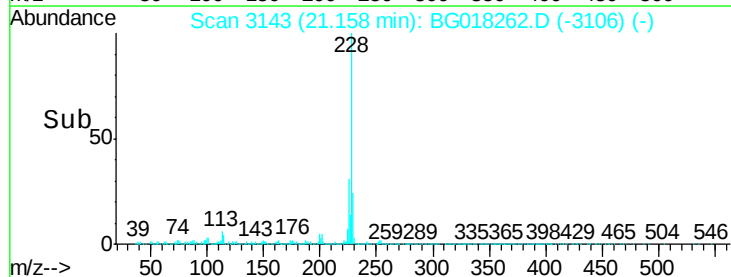
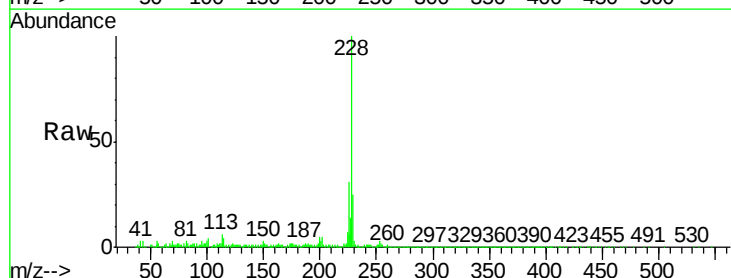
RT: 21.16 min Scan# 3143

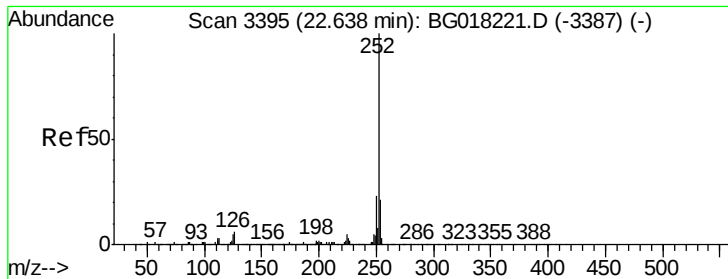
Delta R.T. 0.02 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Tgt Ion:	228	Resp:	697180
Ion Ratio	Lower	Upper	
228	100		
226	30.9	22.7	34.1
229	24.6	16.2	24.2#





#88

Benzo(b)fluoranthene

Concen: 131.91 ng/ul m

RT: 22.66 min Scan# 3398

Delta R.T. 0.04 min

Lab File: BG018262.D

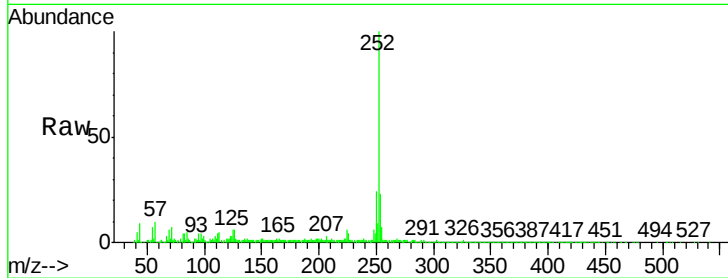
Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

ClientSampleId :

C01W3



Tgt Ion: 252 Resp: 930128

Ion Ratio Lower Upper

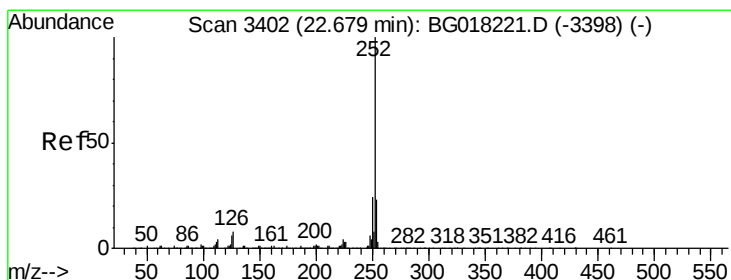
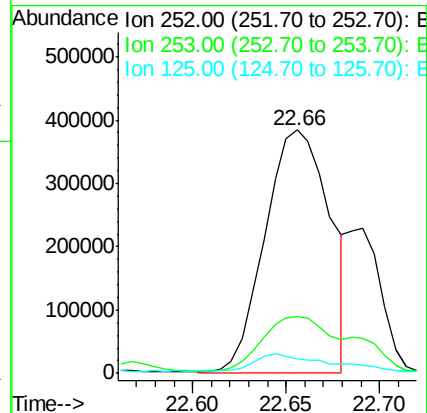
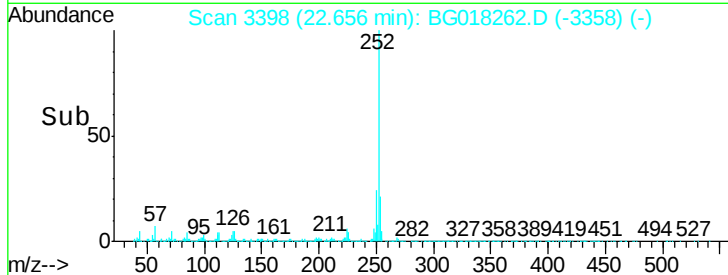
252 100

253 23.5 18.5 27.7

125 6.2 7.4 11.0#

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#89

Benzo(k)fluoranthene

Concen: 44.24 ng/ul m

RT: 22.69 min Scan# 3404

Delta R.T. 0.03 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

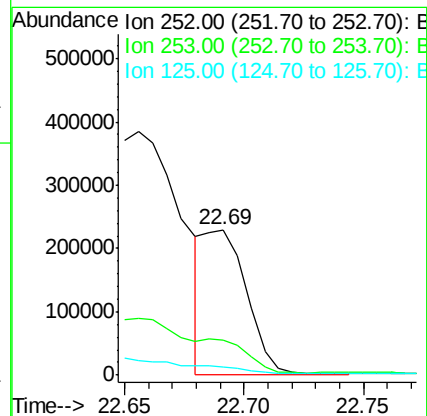
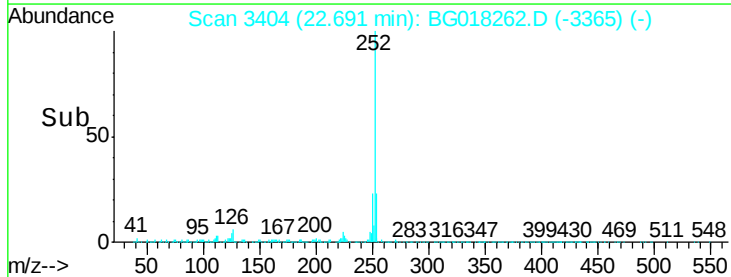
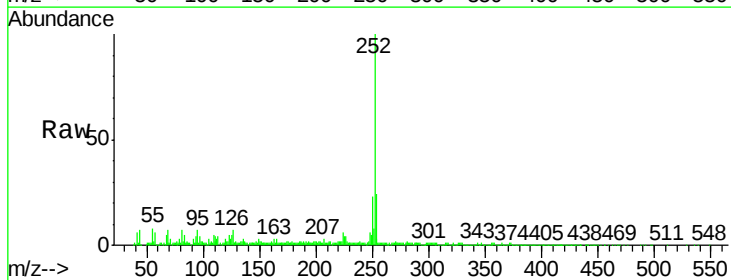
Tgt Ion: 252 Resp: 286696

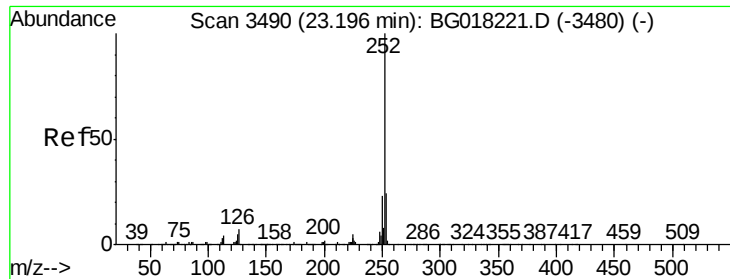
Ion Ratio Lower Upper

252 100

253 24.0 18.2 27.2

125 5.5 7.5 11.3#





#91

Benzo(a)pyrene

Concen: 107.78 ng/ul m

RT: 23.21 min Scan# 3493

Delta R.T. 0.04 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Instrument :

BNA_G

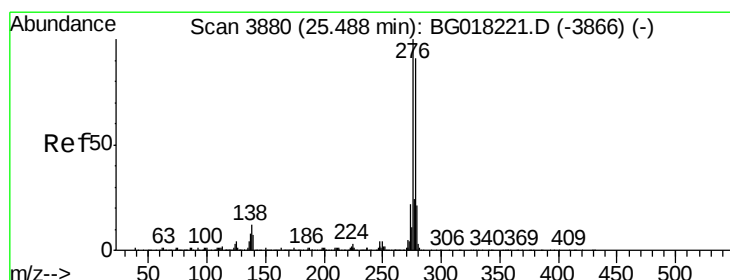
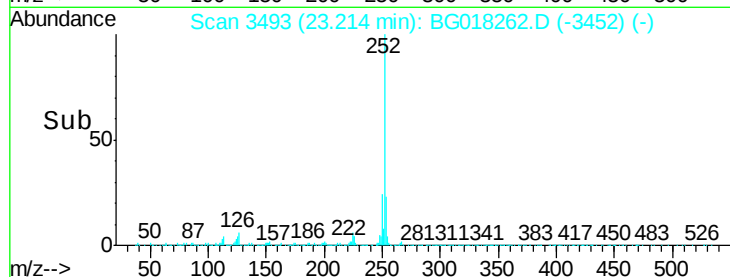
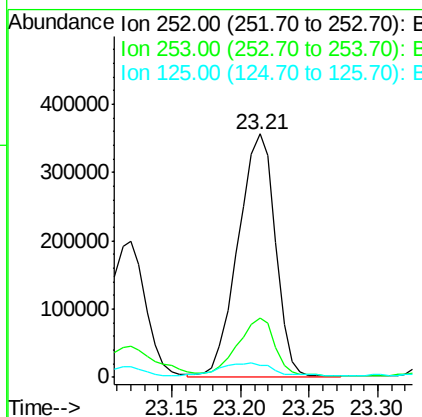
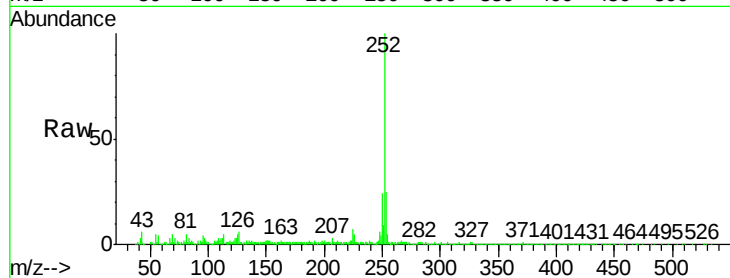
ClientSampleId :

C01W3

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	679905		
253	24.6	17.4	26.2	
125	5.2	7.3	10.9#	

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#92

Indeno(1,2,3-cd)pyrene

Concen: 45.43 ng/ul m

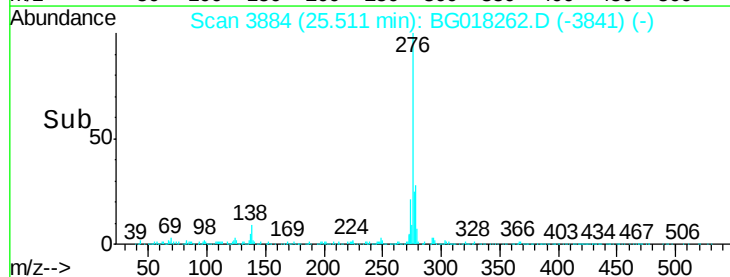
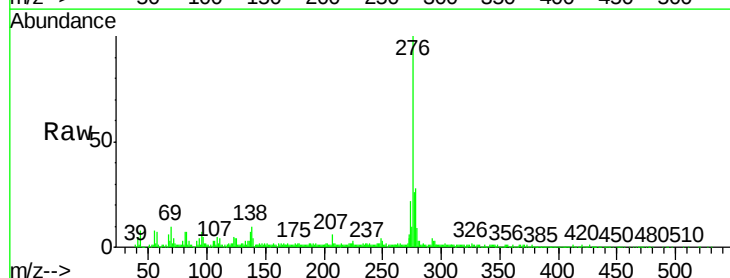
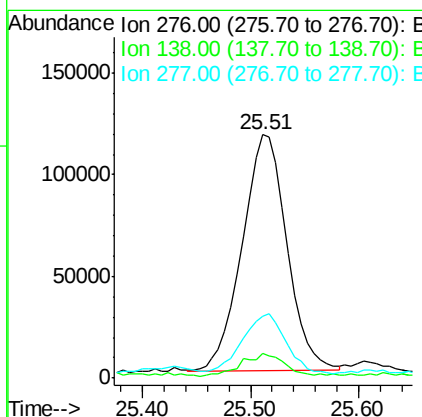
RT: 25.51 min Scan# 3884

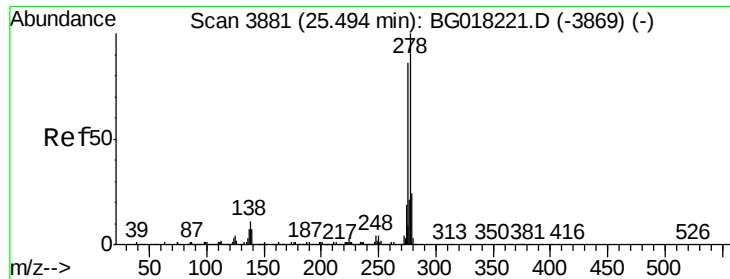
Delta R.T. 0.06 min

Lab File: BG018262.D

Acq: 4 Aug 2015 20:40

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	331521		
138	10.0	17.2	25.8#	
277	25.6	19.5	29.3	





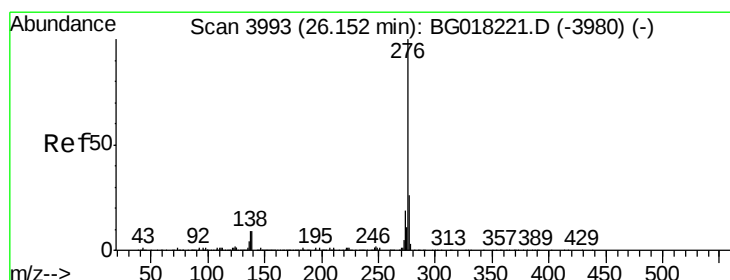
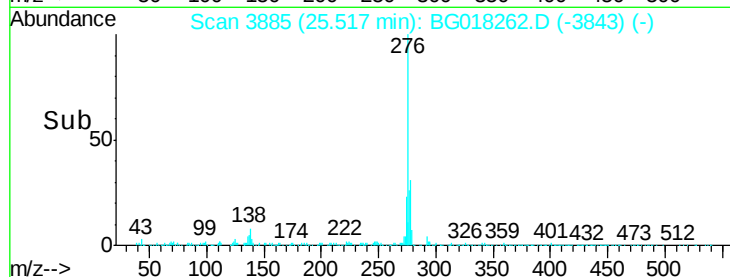
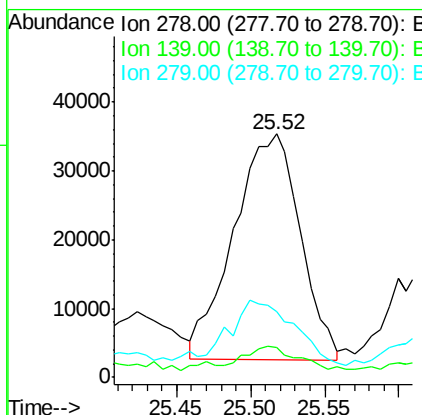
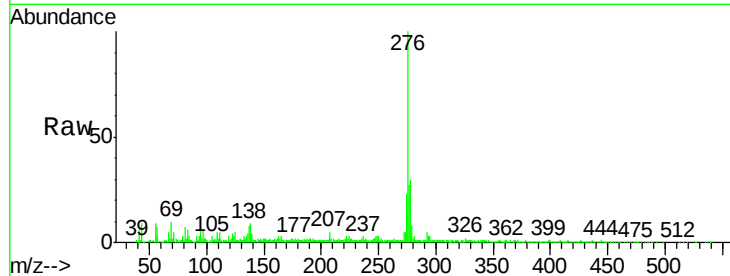
#93
Dibenzo(a,h)anthracene
Concen: 16.39 ng/ul m
RT: 25.52 min Scan# 3885
Delta R.T. 0.05 min
Lab File: BG018262.D
Acq: 4 Aug 2015 20:40

Instrument :
BNA_G
ClientSampleId :
C01W3

Tgt Ion	Ratio	Lower	Upper
278	100		
139	12.1	12.2	18.2#
279	27.2	20.0	30.0

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#94
Benzo(g,h,i)perylene
Concen: 49.31 ng/ul m
RT: 26.19 min Scan# 4000
Delta R.T. 0.07 min
Lab File: BG018262.D
Acq: 4 Aug 2015 20:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.5	15.1	22.7#
277	25.7	19.8	29.6

