

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121815\
 Data File : BG020251.D
 Acq On : 17 Dec 2015 18:33
 Operator : UM/SJ
 Sample : G4767-15DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:20:15 PM

Quant Time: Dec 18 10:23:18 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 18 02:40:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	20564	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	90413	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.73	164	66199	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.49	188	143393	20.00	ng/ul	0.01
78) Chrysene-d12	21.76	240	177361	20.00	ng/ul	0.01
86) Perylene-d12	25.02	264	173522	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.25	99	3243	1.79	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	2261	2.09	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	2535	1.92	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	3039	1.96	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	1575	2.23	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	1726	2.20	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.54	165	3281	2.07	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	2935	1.64	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	12441	2.32	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	12099	1.94	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	2110	2.20	ng/ul	0.00
58) Fluorene-d10	15.72	176	10106	2.08	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.86	200	866	1.02	ng/ul	0.03
71) Anthracene-d10	17.59	188	13433	2.03	ng/ul	0.02
79) Pyrene-d10	19.86	212	16902	2.04	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	16810	1.94	ng/ul	0.00

Target Compounds

					Ovalue
28) Naphthalene	10.99	128	3095026	655.51	ng/ul# 82
34) 2-Methylnaphthalene	12.57	142	1144382	317.31	ng/ul 97
35) 1-Methylnaphthalene	12.79	142	570394	164.51	ng/ul# 96
41) 1,1'-Biphenyl	13.57	154	498593	99.83	ng/ul 99
48) Acenaphthylene	14.45	152	192232	29.04	ng/ul# 96
50) Acenaphthene	14.81	153	1843845	414.05	ng/ul 92
54) Dibenzofuran	15.14	168	1841847m	278.04	ng/ul
59) Fluorene	15.79	166	1737923	326.70	ng/ul# 98
70) Phenanthrene	17.56	178	4983429m	635.37	ng/ul
72) Anthracene	17.62	178	622661	78.27	ng/ul 97
75) Carbazole	17.88	167	399280	59.73	ng/ul 98
77) Fluoranthene	19.55	202	3444422	375.76	ng/ul# 75
80) Pyrene	19.91	202	2759672	257.08	ng/ul# 86
83) Benzo(a)anthracene	21.74	228	875594	84.61	ng/ul 96
85) Chrysene	21.80	228	747412m	76.68	ng/ul
88) Benzo(b)fluoranthene	23.99	252	435726	41.72	ng/ul 97
89) Benzo(k)fluoranthene	24.05	252	129663	12.94	ng/ul 99
91) Benzo(a)pyrene	24.87	252	252169	25.47	ng/ul 97
92) Indeno(1,2,3-cd)pyrene	28.74	276	80093	6.79	ng/ul 98
93) Dibenzo(a,h)anthracene	28.80	278	25069	2.56	ng/ul 93
94) Benzo(a,h,i)perylene	29.92	276	60856	6.30	ng/ul 100

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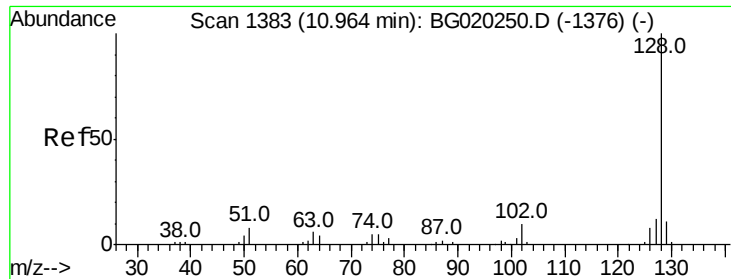
Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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



#28

Naphthalene

Concen: 655.51 ng/ul

RT: 10.99 min Scan# 1388

Delta R.T. 0.03 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

Tot Ion:128 Resp: 3095026

Ion Ratio Lower Upper

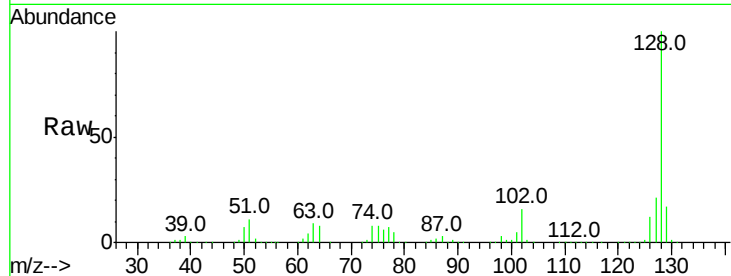
128 100

129 16.5 8.6 12.8#

127 20.7 10.1 15.1#

Manual Integrations
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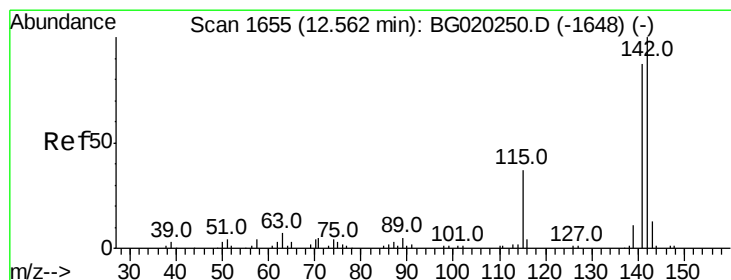
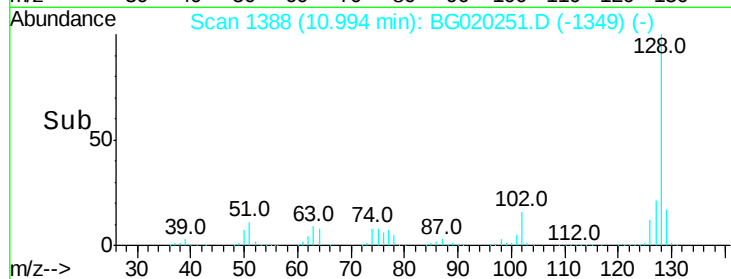
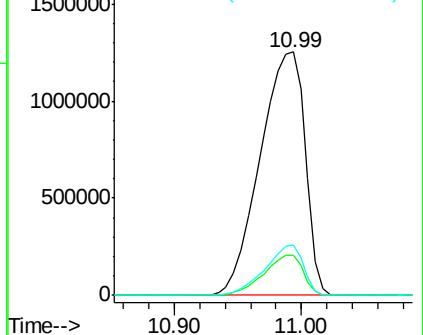
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 317.31 ng/ul

RT: 12.57 min Scan# 1657

Delta R.T. 0.01 min

Lab File: BG020251.D

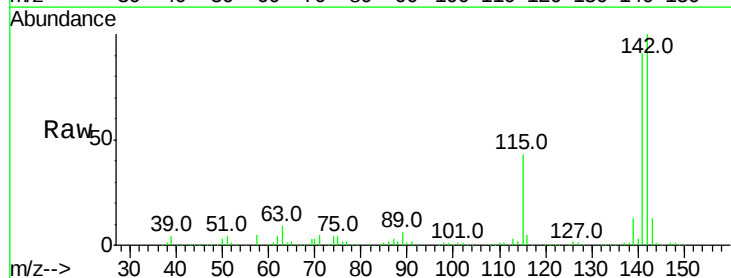
Acq: 17 Dec 2015 18:33

Tgt Ion:142 Resp: 1144382

Ion Ratio Lower Upper

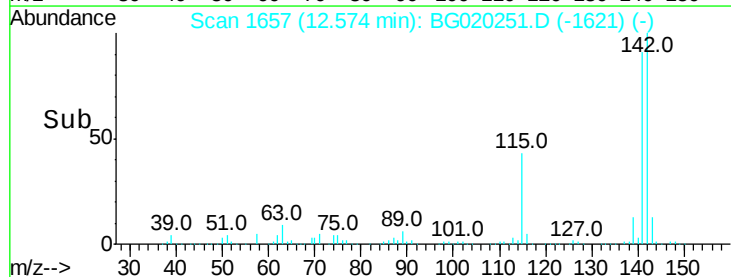
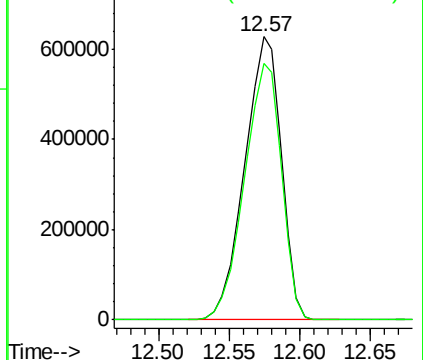
142 100

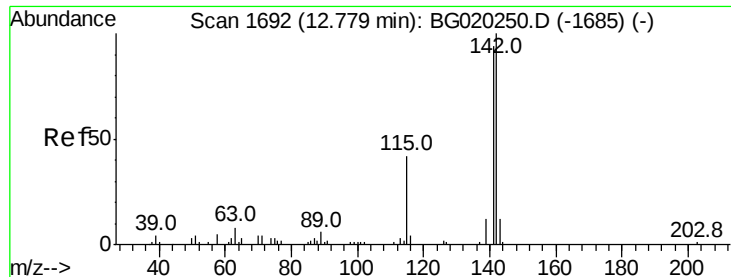
141 90.8 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





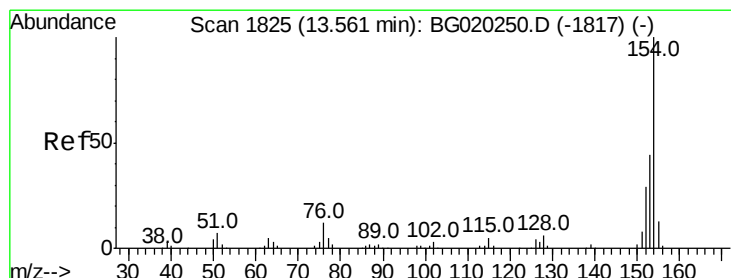
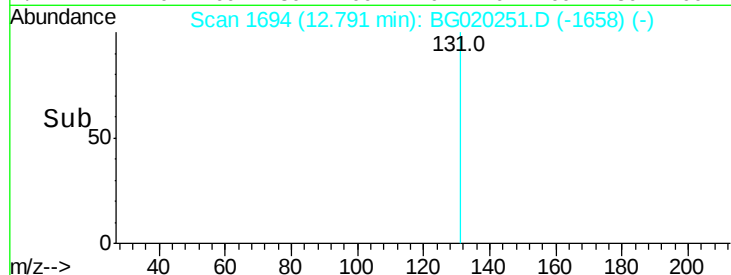
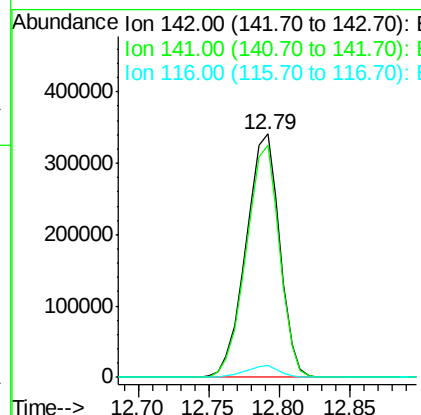
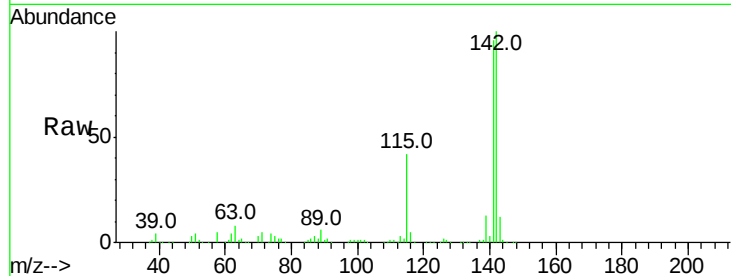
#35
 1-Methylnaphthalene
 Concen: 164.51 ng/ul
 RT: 12.79 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.5	73.0	109.6
116	4.7	3.0	4.6#

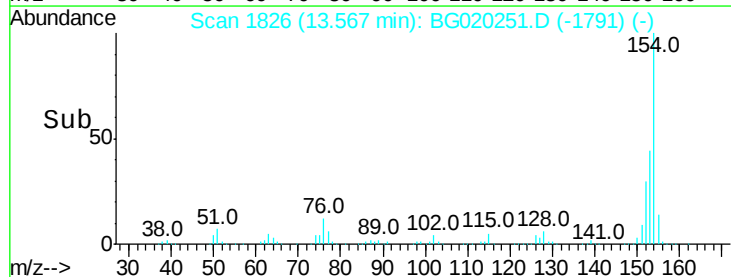
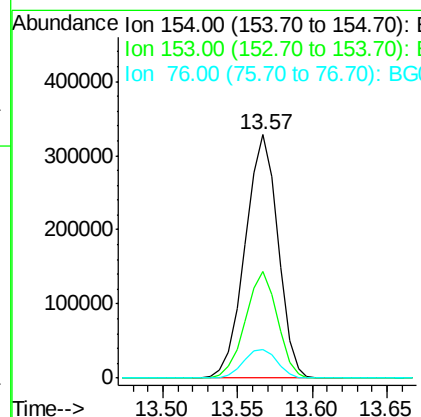
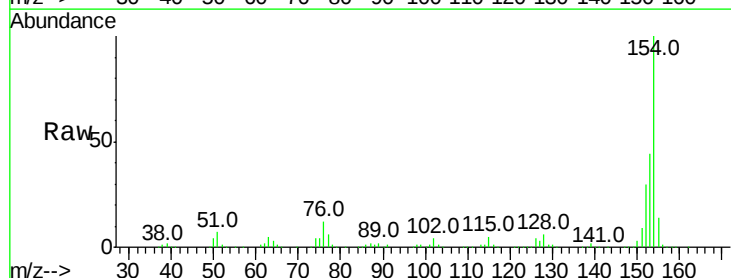
Manual Integrations
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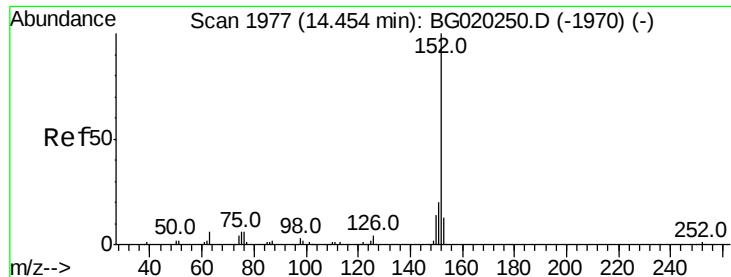
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#41
 1,1'-Biphenyl
 Concen: 99.83 ng/ul
 RT: 13.57 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Tgt Ion	Ratio	Lower	Upper
154	100		
153	43.7	35.5	53.3
76	11.8	10.4	15.6





#48

Acenaphthylene

Concen: 29.04 ng/ul

RT: 14.45 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

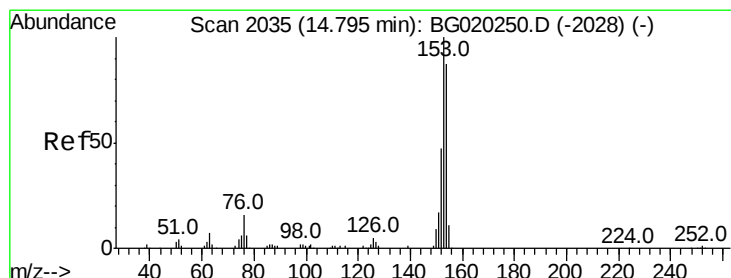
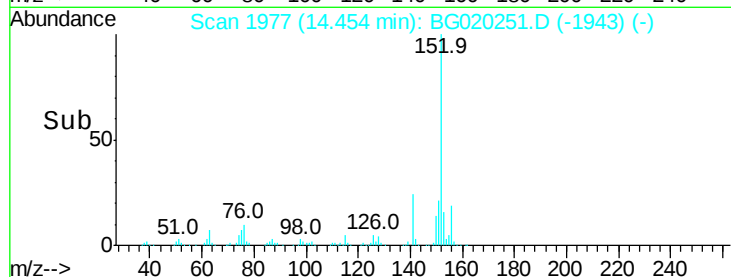
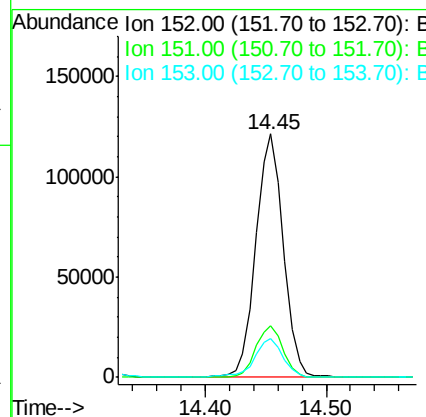
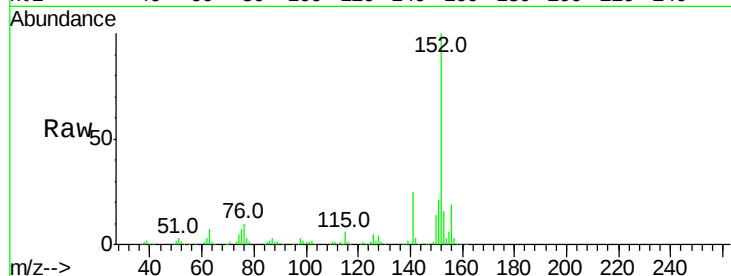
ClientSampleId :

D9N37DL

Tot Ion:	152	Resp:	192232
Ion Ratio	Lower	Upper	
152	100		
151	21.2	16.4	24.6
153	15.9	10.4	15.6

Manual Integrations
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#50

Acenaphthene

Concen: 414.05 ng/ul

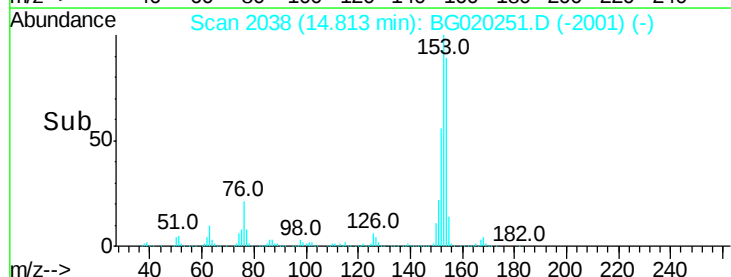
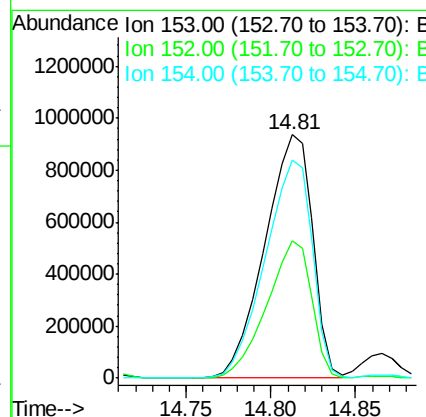
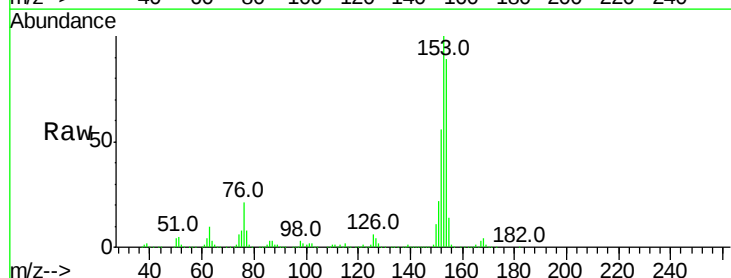
RT: 14.81 min Scan# 2038

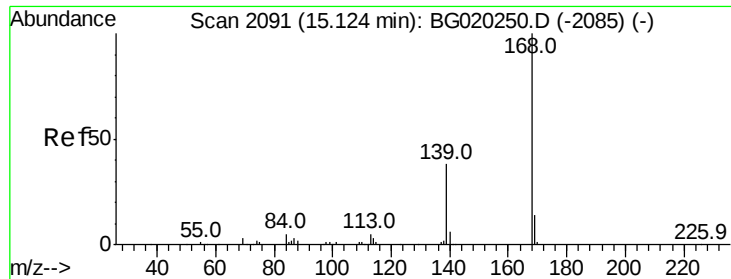
Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Tgt Ion:	153	Resp:	1843845
Ion Ratio	Lower	Upper	
153	100		
152	56.4	37.6	56.4
154	89.4	67.9	101.9





#54

Dibenzenofuran

Concen: 278.04 ng/ul m

RT: 15.14 min Scan# 2094

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

Tot Ion:168 Resp: 1841847

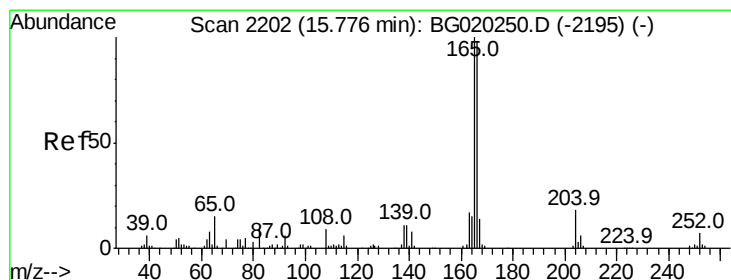
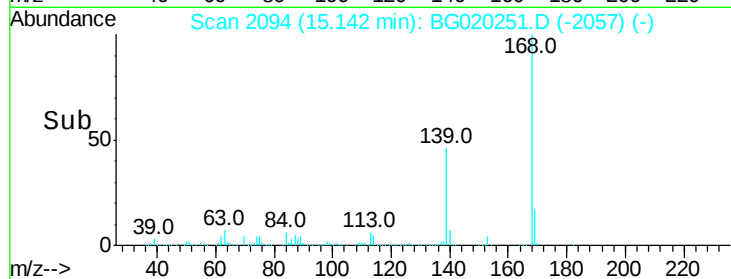
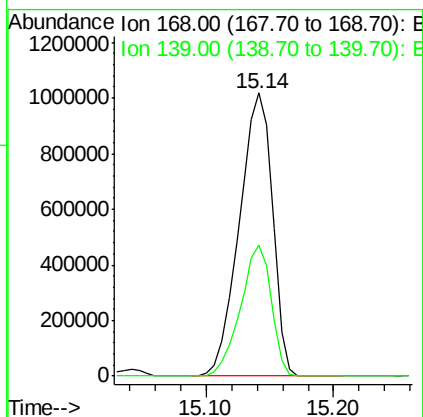
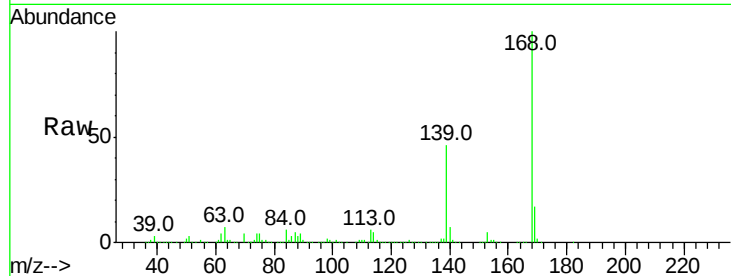
Ion Ratio Lower Upper

168 100

139 46.4 30.5 45.7#

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#59

Fluorene

Concen: 326.70 ng/ul

RT: 15.79 min Scan# 2205

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

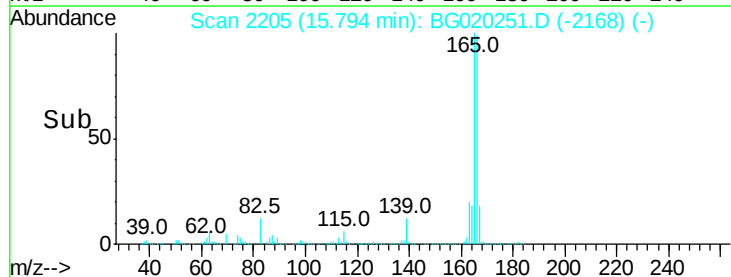
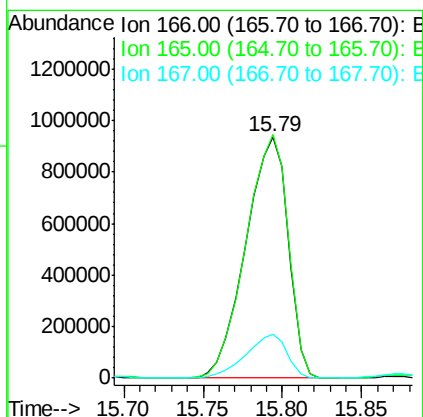
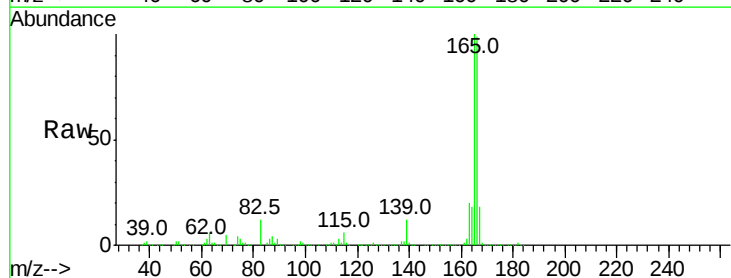
Tgt Ion:166 Resp: 1737923

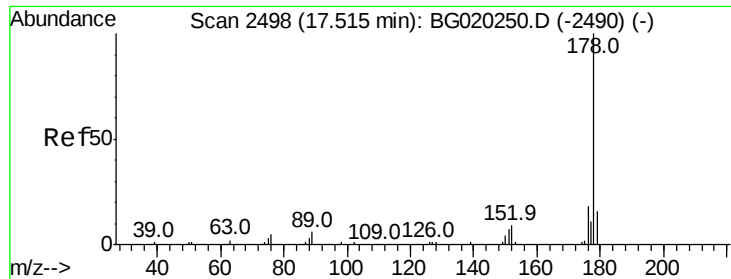
Ion Ratio Lower Upper

166 100

165 100.9 81.4 122.0

167 18.2 11.2 16.8#





#70

Phenanthrene

Concen: 635.37 ng/ul m

RT: 17.56 min Scan# 2506

Delta R.T. 0.05 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

Tot Ion:178 Resp: 4983429

Ion Ratio Lower Upper

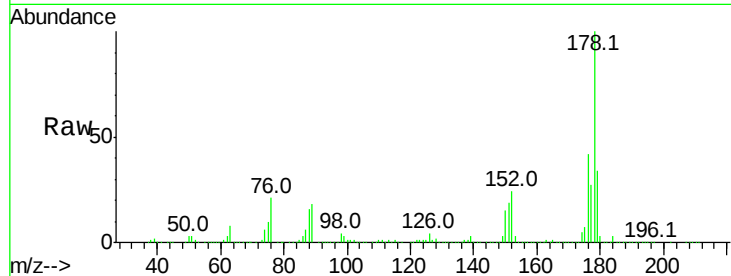
178 100

179 34.1 12.9 19.3#

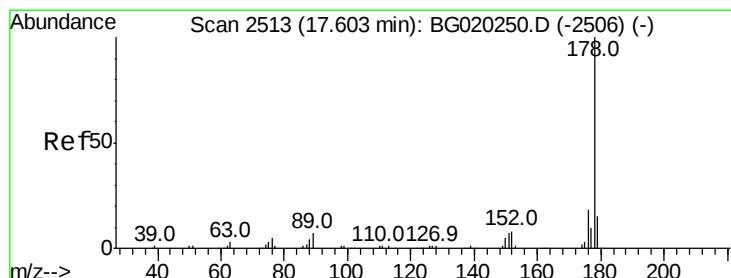
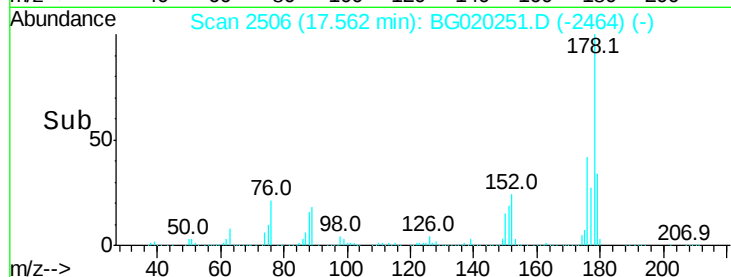
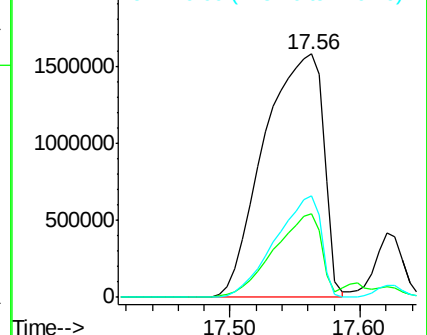
176 41.9 15.3 22.9#

Manual Integrations
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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

Anthracene

Concen: 78.27 ng/ul

RT: 17.62 min Scan# 2516

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

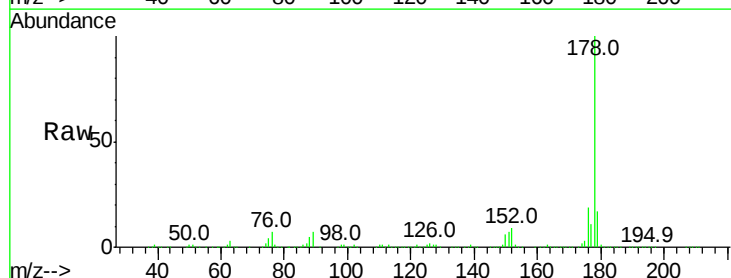
Tgt Ion:178 Resp: 622661

Ion Ratio Lower Upper

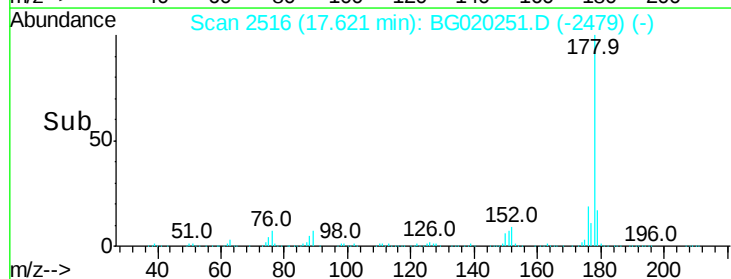
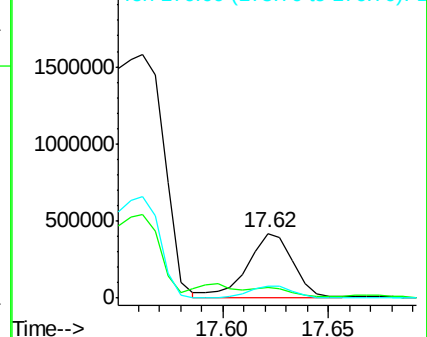
178 100

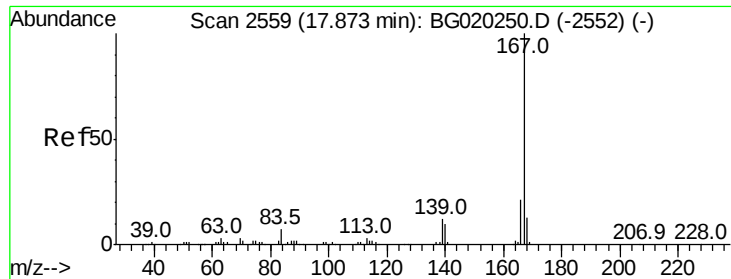
179 16.7 12.3 18.5

176 19.2 14.3 21.5



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





#75

Carbazole

Concen: 59.73 ng/ul

RT: 17.88 min Scan# 2560

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

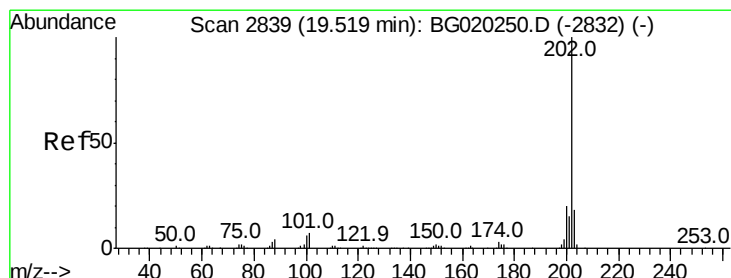
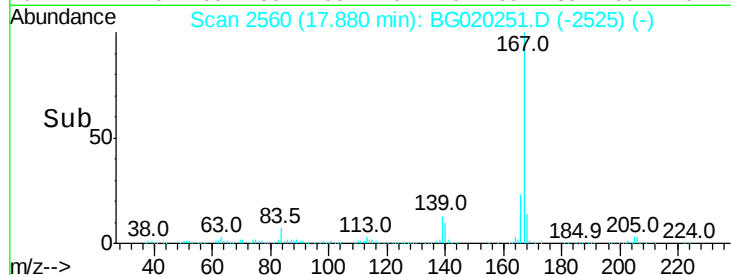
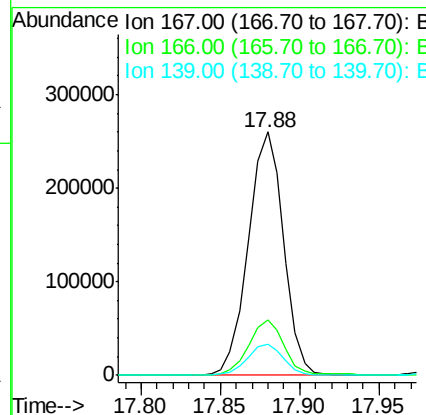
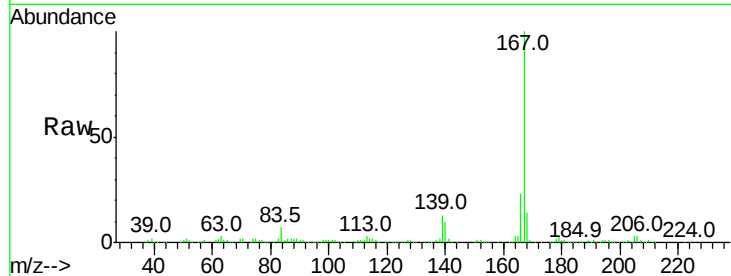
ClientSampleId :

D9N37DL

Tot Ion:	167	Resp:	399280
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.0	25.6
139	13.0	10.1	15.1

Manual Integrations
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#77

Fluoranthene

Concen: 375.76 ng/ul

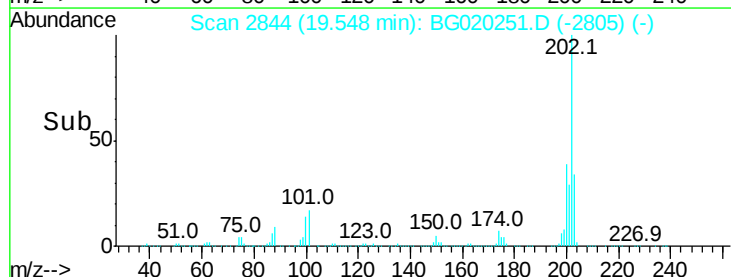
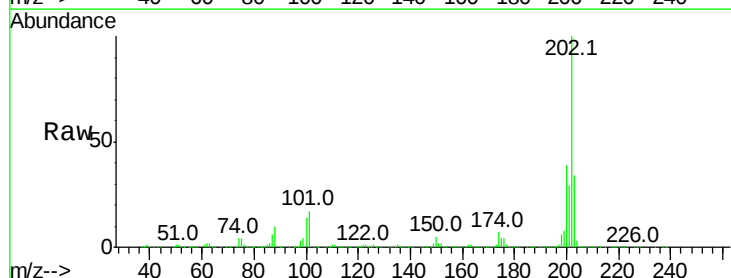
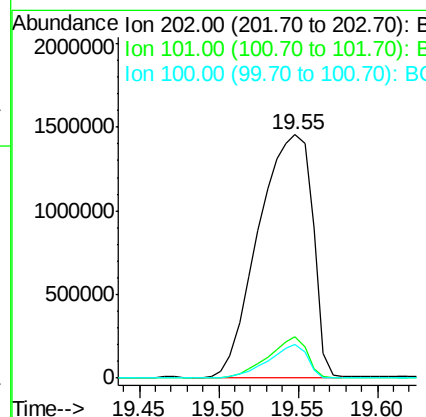
RT: 19.55 min Scan# 2844

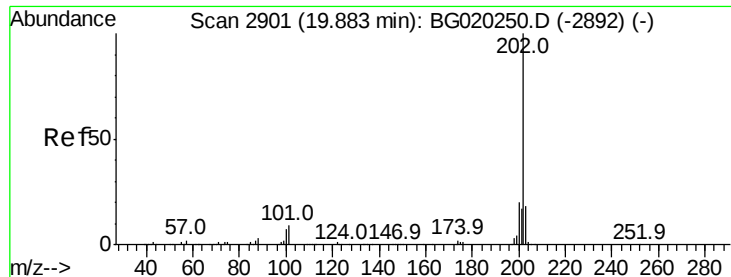
Delta R.T. 0.03 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Tgt Ion:	202	Resp:	3444422
Ion Ratio	Lower	Upper	
202	100		
101	17.2	6.2	9.4#
100	13.8	5.1	7.7#





#80

Pvrene

Concen: 257.08 ng/ul

RT: 19.91 min Scan# 2905

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

Tot Ion:202 Resp: 2759672

Ion Ratio Lower Upper

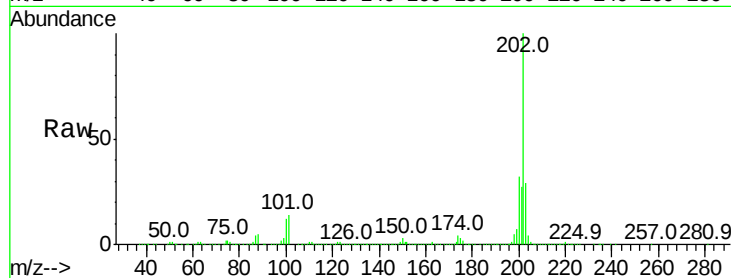
202 100

101 14.5 7.0 10.4#

100 12.3 6.4 9.6#

Manual Integrations
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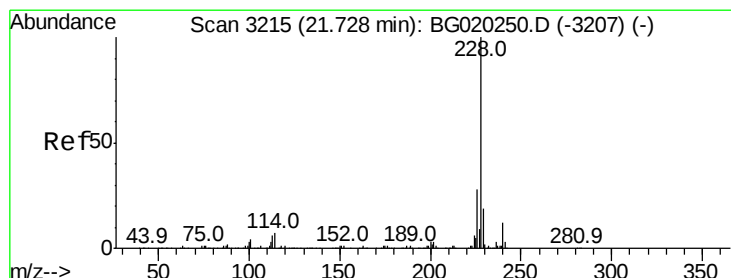
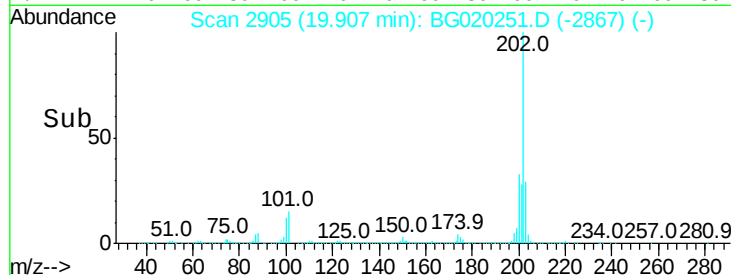
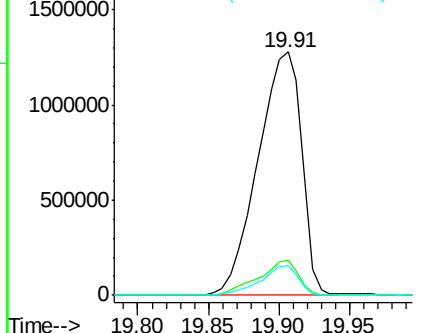
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#83

Benzo(a)anthracene

Concen: 84.61 ng/ul

RT: 21.74 min Scan# 3217

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

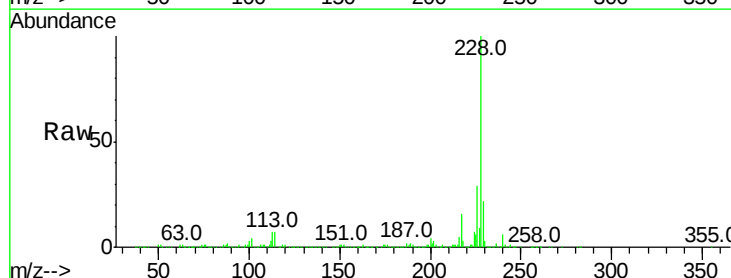
Tgt Ion:228 Resp: 875594

Ion Ratio Lower Upper

228 100

229 21.6 15.8 23.8

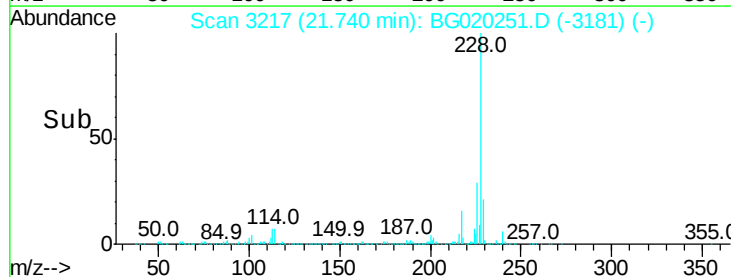
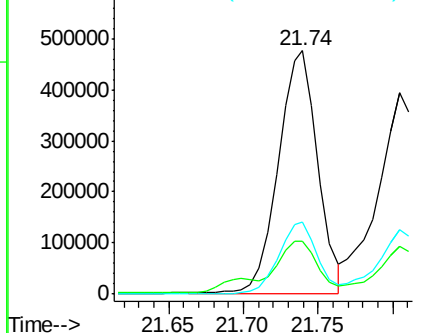
226 29.4 21.8 32.6

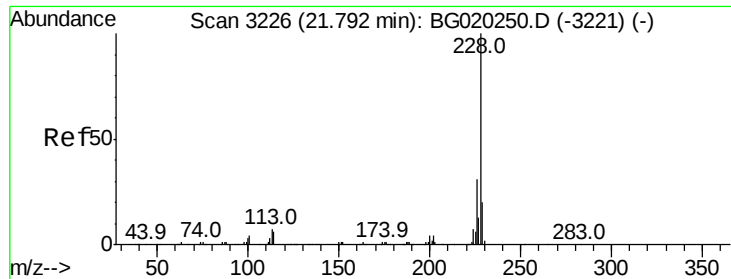


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#85

Chrysene

Concen: 76.68 ng/ul m

RT: 21.80 min Scan# 3228

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

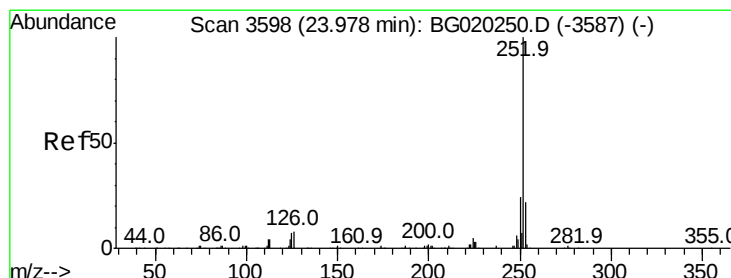
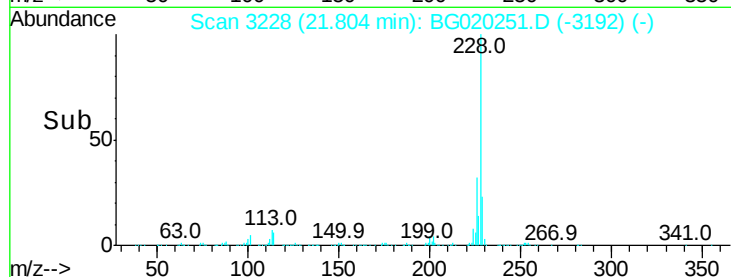
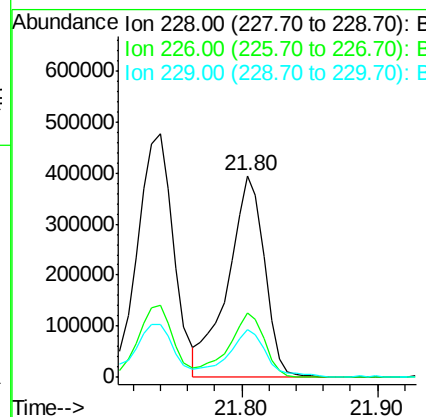
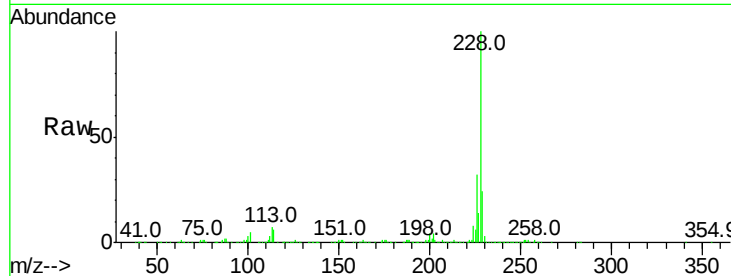
ClientSampleId :

D9N37DL

Tot Ion:	228	Resp:	747412
Ion Ratio	Lower	Upper	
228	100		
226	32.2	23.9	35.9
229	23.6	15.6	23.4#

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#88

Benzo(b)fluoranthene

Concen: 41.72 ng/ul

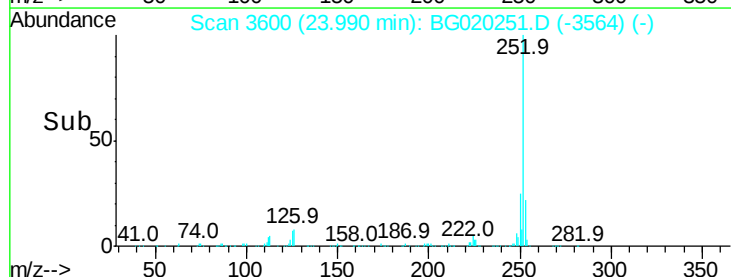
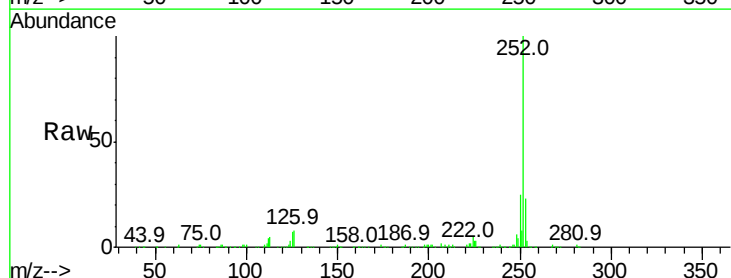
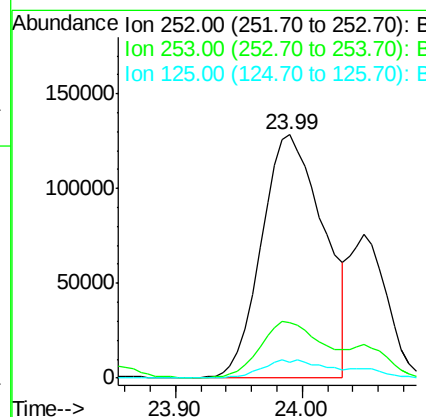
RT: 23.99 min Scan# 3600

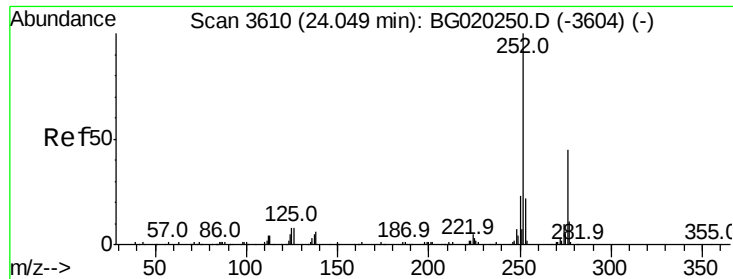
Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Tgt Ion:	252	Resp:	435726
Ion Ratio	Lower	Upper	
252	100		
253	22.5	16.7	25.1
125	6.7	6.2	9.2





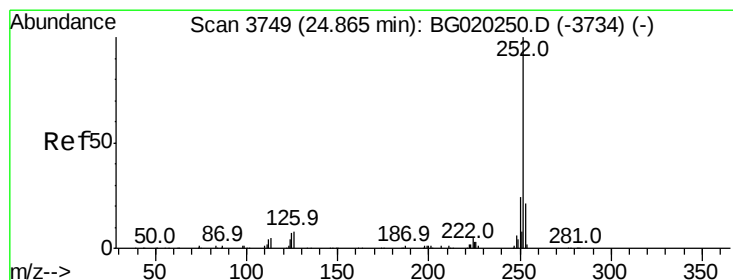
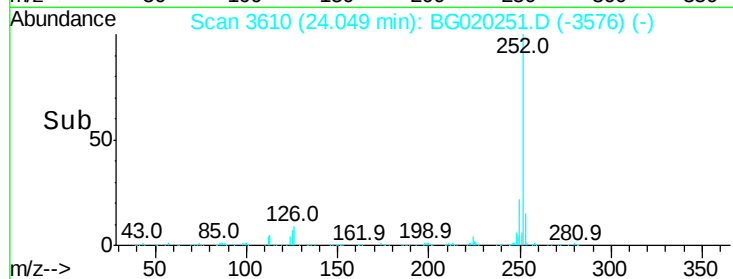
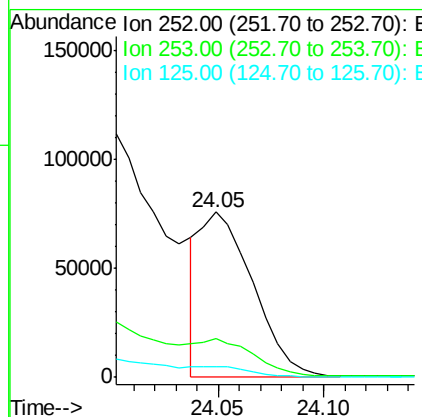
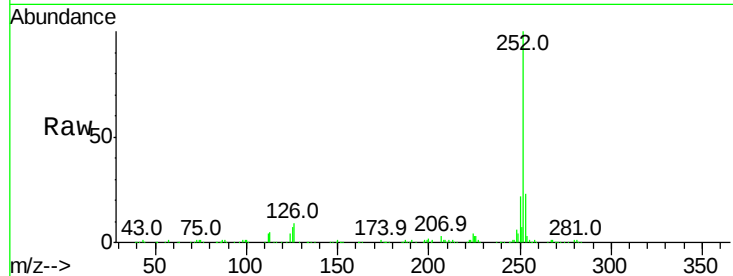
#89
Benzo(k)fluoranthene
Concen: 12.94 ng/ul
RT: 24.05 min Scan# 3610
Delta R.T. 0.00 min
Lab File: BG020251.D
Acq: 17 Dec 2015 18:33

Instrument :
BNA_G
ClientSampleId :
D9N37DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	6.7	5.8	8.6

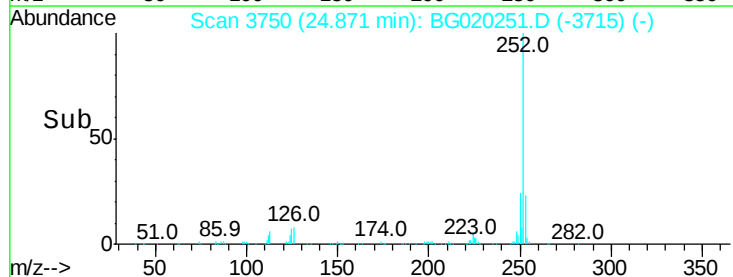
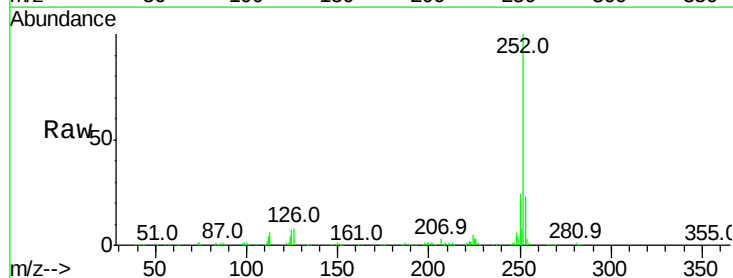
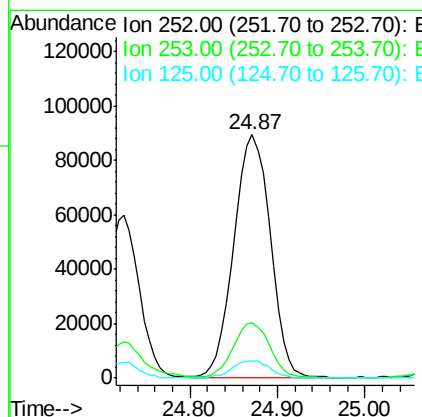
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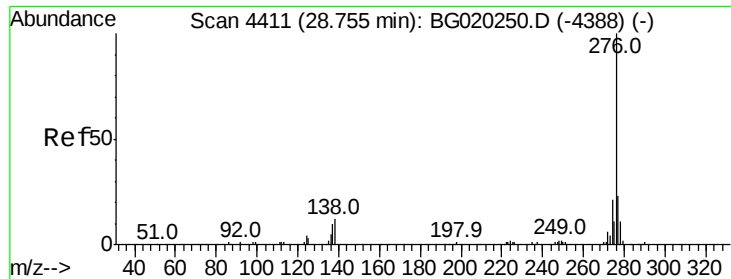
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#91
Benzo(a)pyrene
Concen: 25.47 ng/ul
RT: 24.87 min Scan# 3750
Delta R.T. 0.01 min
Lab File: BG020251.D
Acq: 17 Dec 2015 18:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.4
125	6.9	6.2	9.4





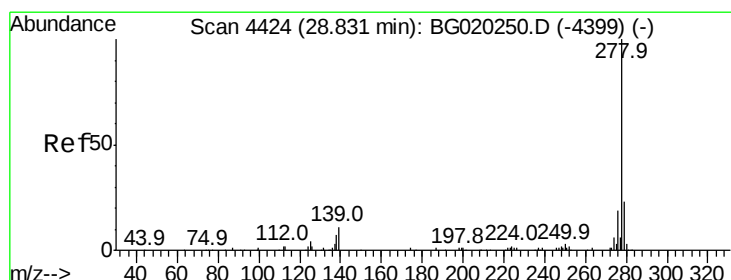
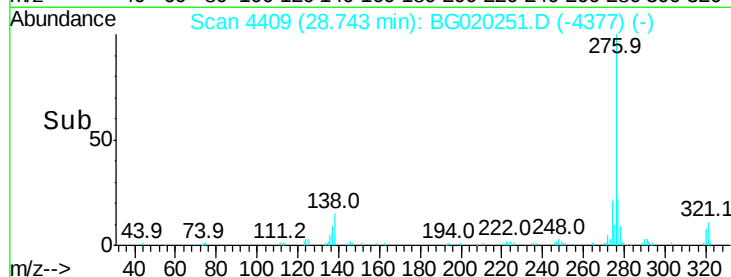
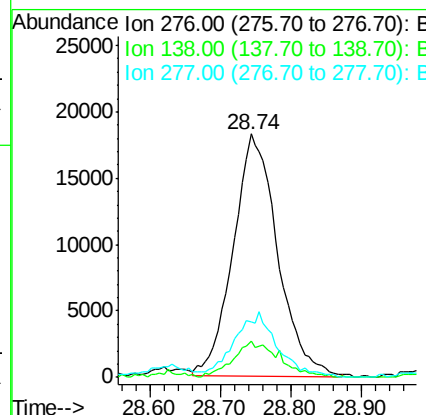
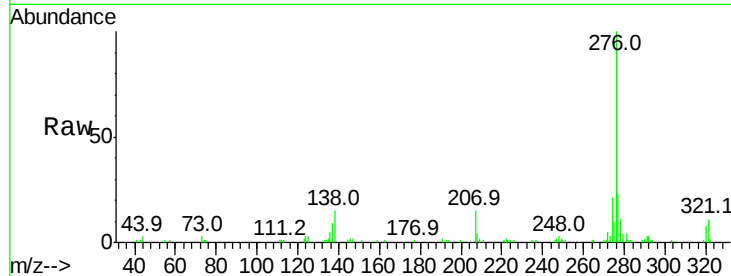
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 6.79 ng/ul
 RT: 28.74 min Scan# 4409
 Delta R.T. -0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

Tot Ion	Ratio	Resp	Lower	Upper
276	100	80093		
138	15.1		11.4	17.0
277	22.6		17.4	26.0

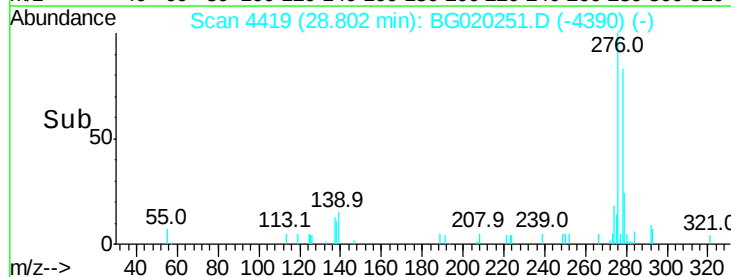
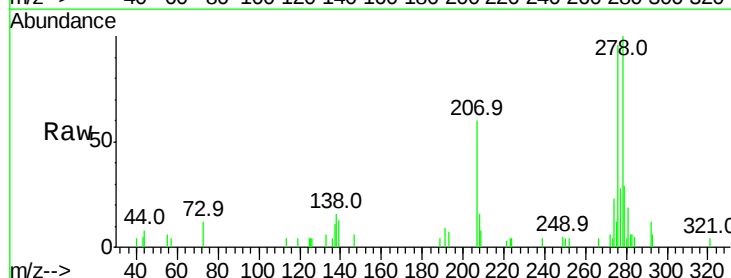
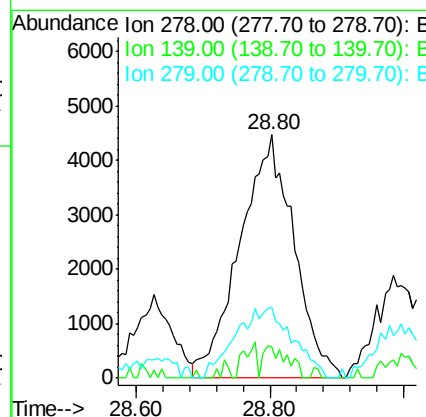
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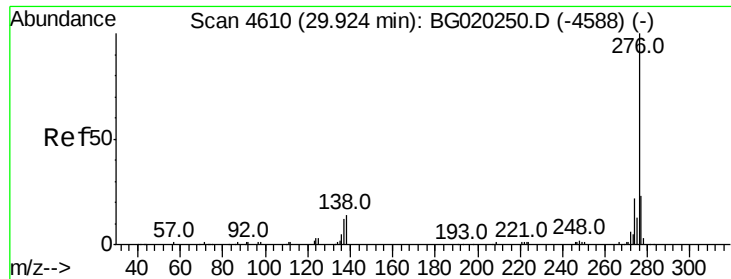
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#93
 Dibenzo(a,h)anthracene
 Concen: 2.56 ng/ul
 RT: 28.80 min Scan# 4419
 Delta R.T. -0.03 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	25069		
139	12.8		9.4	14.2
279	28.9		19.4	29.0





#94
 Benzo(a,h,i)perylene
 Concen: 6.30 ng/ul
 RT: 29.92 min Scan# 4609
 Delta R.T. -0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

Tot Ion:	276	Resp:	60856
Ion Ratio		Lower	Upper
276	100		
138	13.3	10.8	16.2
277	24.8	19.9	29.9

Manual Integrations
 APPROVED

MMdadoda
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