

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
 Data File : BG020423.D
 Acq On : 23 Dec 2015 1:32
 Operator : UM/SJ
 Sample : G4866-12
 Misc : MED LEVEL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 E43M4

Manual Integrations
 APPROVED

Sohil
 12/24/2015 5:33:36 PM

Quant Time: Dec 23 07:48:02 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 23 07:35:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	17123	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	79446	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	59659	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	142545	20.00	ng/ul	0.00
78) Chrysene-d12	21.75	240	178542	20.00	ng/ul	0.01
86) Perylene-d12	25.02	264	176739	20.00	ng/ul	0.01

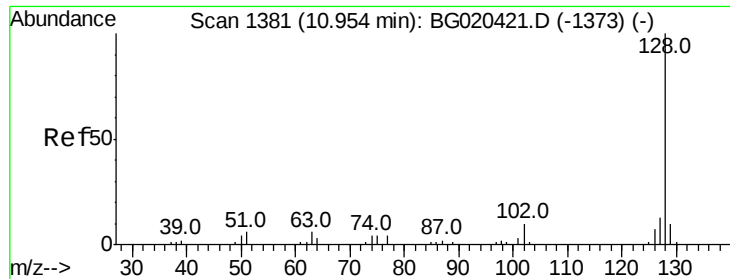
System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	1015	3.27	ng/uL	0.00
5) Phenol-d5	7.24	99	28625	18.96	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	18291	20.30	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	23057	21.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	6655	5.15	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	13795	22.28	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	16788	24.36	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	27565	19.75	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	7445	4.75	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	108726	22.53	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	124267	22.13	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	9923	11.47	ng/ul	0.00
58) Fluorene-d10	15.71	176	95293	21.77	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	14421	17.07	ng/ul	0.00
71) Anthracene-d10	17.57	188	143732	21.88	ng/ul	0.00
79) Pyrene-d10	19.85	212	173297	20.83	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	197749	22.43	ng/ul	0.02

Target Compounds

					Ovalue
28) Naphthalene	10.95	128	34723	8.37 ng/ul	99
34) 2-Methylnaphthalene	12.55	142	8276	2.61 ng/ul	96
45) Dimethylphthalate	14.16	163	17379	3.53 ng/ul	99
50) Acenaphthene	14.78	153	86135	21.46 ng/ul	99
54) Dibenzofuran	15.11	168	55307	9.26 ng/ul	97
59) Fluorene	15.76	166	83555	17.43 ng/ul	96
70) Phenanthrene	17.51	178	1258196	161.37 ng/ul	95
72) Anthracene	17.59	178	266940	33.75 ng/ul	98
75) Carbazole	17.87	167	160376	24.14 ng/ul	99
77) Fluoranthene	19.53	202	2190896	240.43 ng/ul#	93
80) Pyrene	19.89	202	1966868	182.02 ng/ul#	93
83) Benzo(a)anthracene	21.73	228	1195923	114.80 ng/ul	93
85) Chrysene	21.73	228	1186414	120.92 ng/ul	96
88) Benzo(b)fluoranthene	24.00	252	1696164	159.45 ng/ul	94
89) Benzo(k)fluoranthene	24.05	252	525567	51.49 ng/ul	97
91) Benzo(a)pyrene	24.89	252	1212857	120.28 ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.79	276	954394	79.48 ng/ul	95
93) Dibenzo(a,h)anthracene	28.82	278	239269m	24.00 ng/ul	
94) Benzo(g,h,i)perylene	29.97	276	871897	88.57 ng/ul	99

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



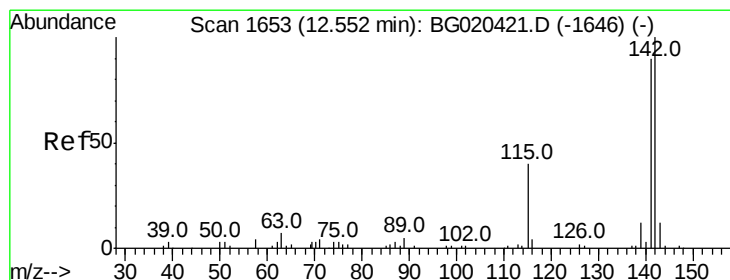
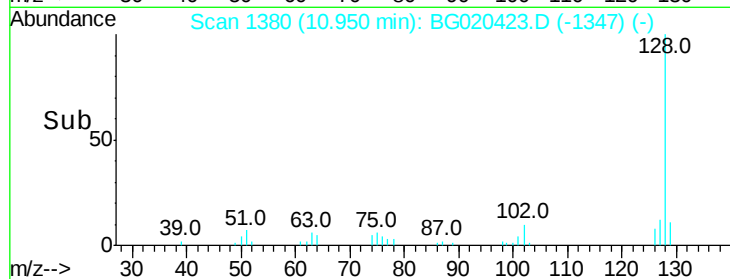
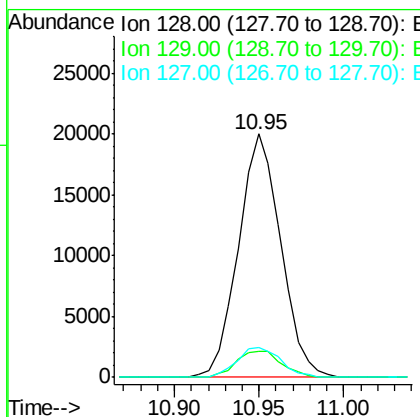
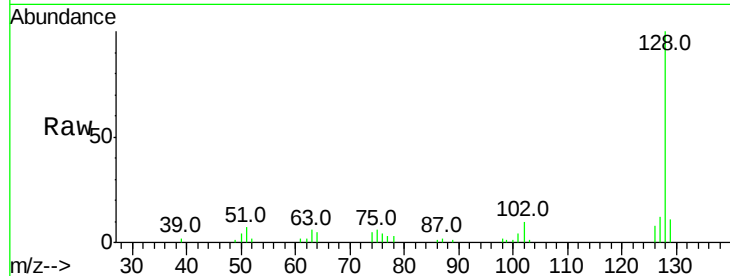
#28
Naphthalene
Concen: 8.37 ng/ul
RT: 10.95 min Scan# 1380
Delta R.T. -0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Instrument :
BNA_G
ClientSampleId :
E43M4

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	12.8
127	12.3	10.1	15.1

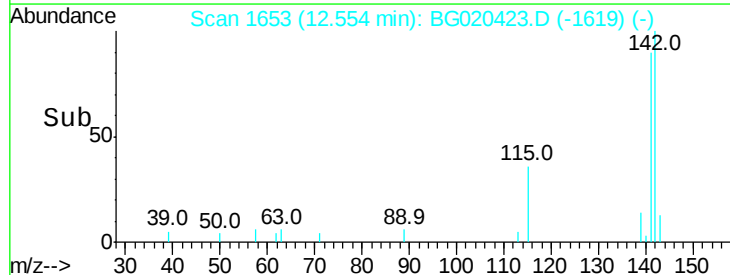
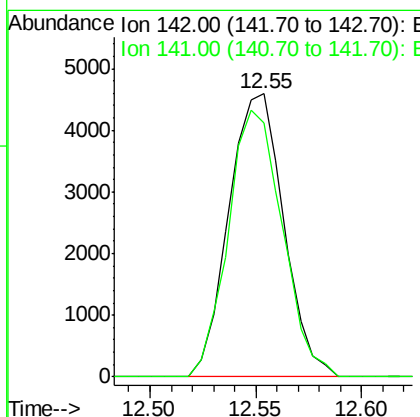
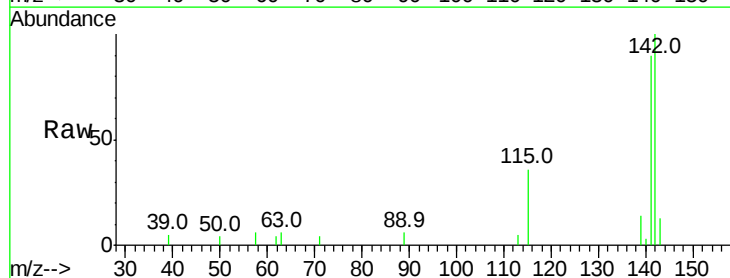
Manual Integrations
APPROVED

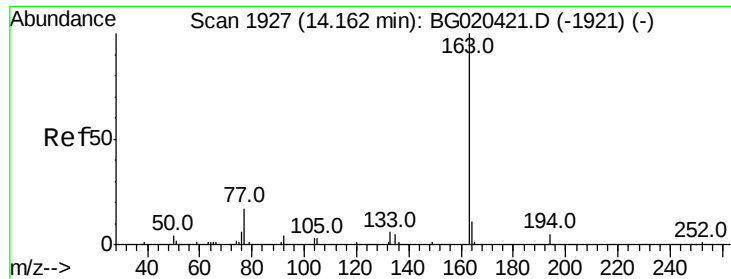
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#34
2-Methylnaphthalene
Concen: 2.61 ng/ul
RT: 12.55 min Scan# 1653
Delta R.T. 0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	74.9	112.3





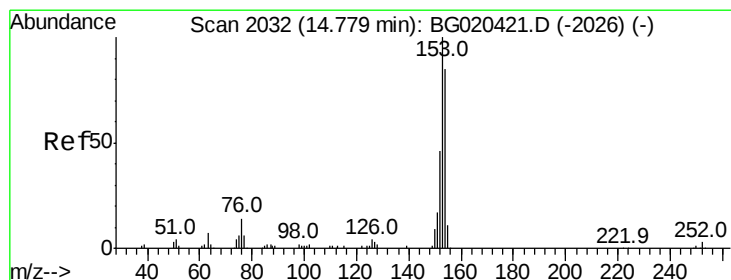
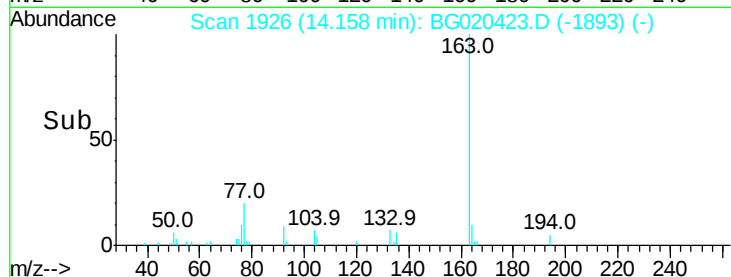
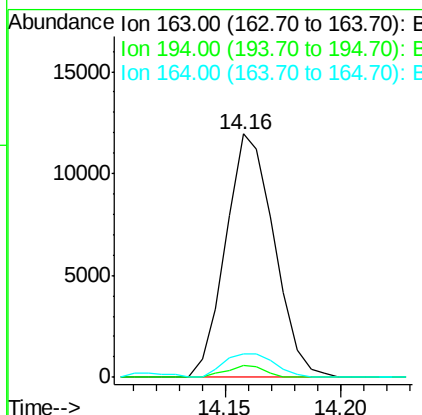
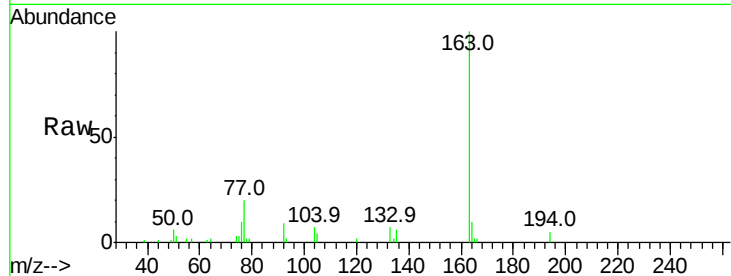
#45
Dimethylphthalate
Concen: 3.53 ng/ul
RT: 14.16 min Scan# 1926
Delta R.T. -0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Instrument :
BNA_G
ClientSampleId :
E43M4

Tot Ion	Ratio	Resp	Lower	Upper
163	100	17379		
194	4.9		3.5	5.3
164	9.8		7.7	11.5

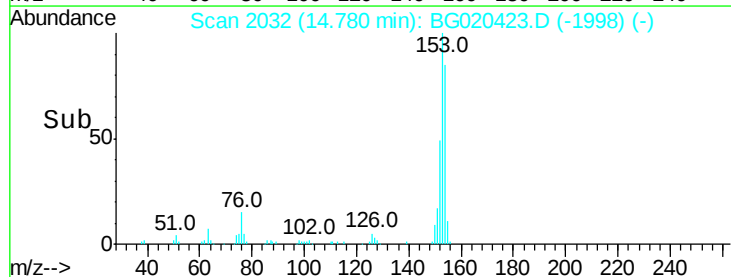
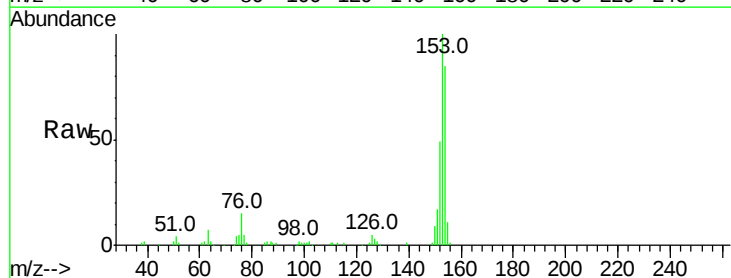
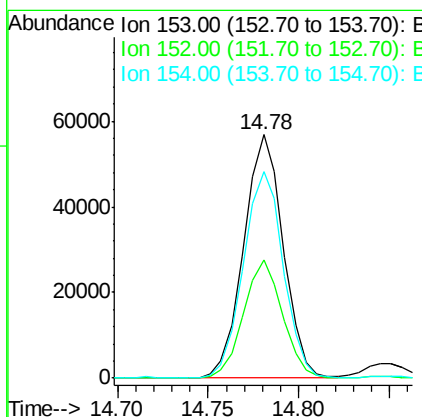
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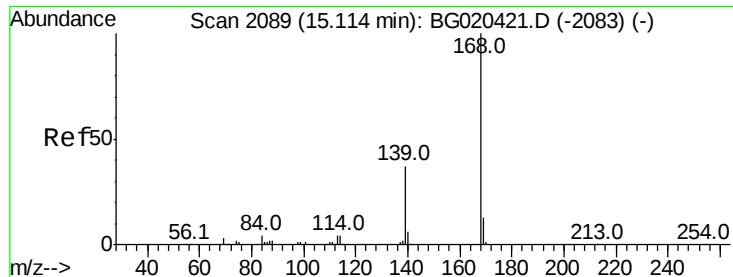
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#50
Acenaphthene
Concen: 21.46 ng/ul
RT: 14.78 min Scan# 2032
Delta R.T. 0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion	Ratio	Resp	Lower	Upper
153	100	86135		
152	48.5		37.6	56.4
154	85.0		67.9	101.9





#54

Dibenzenofuran

Concen: 9.26 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. -0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

Tot Ion:168 Resp: 55307

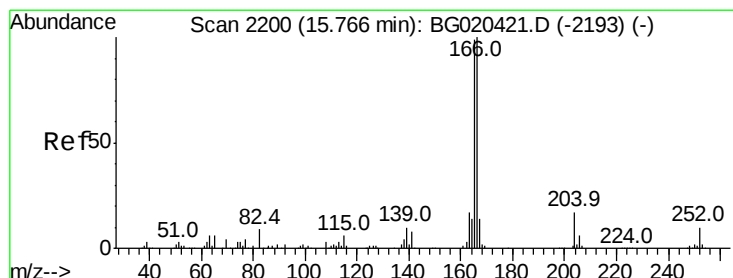
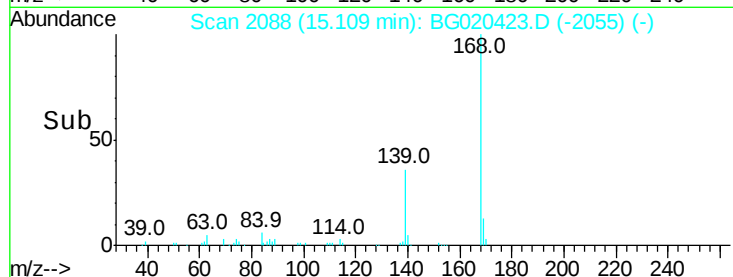
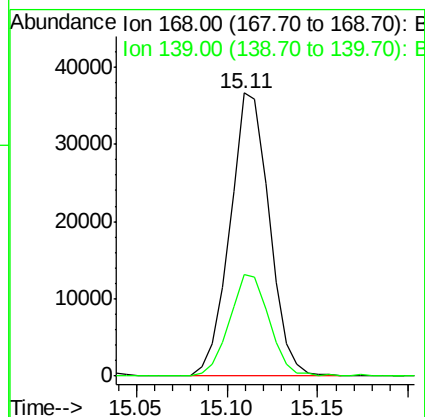
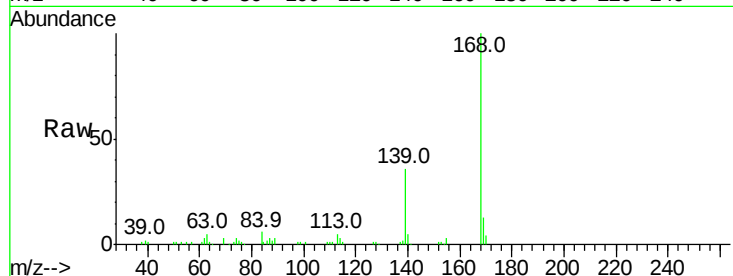
Ion Ratio Lower Upper

168 100

139 36.1 30.5 45.7

Manual Integrations
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#59

Fluorene

Concen: 17.43 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

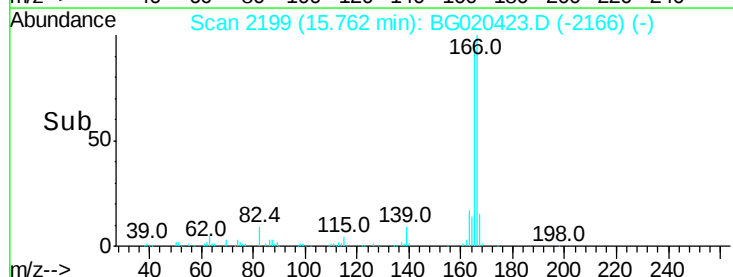
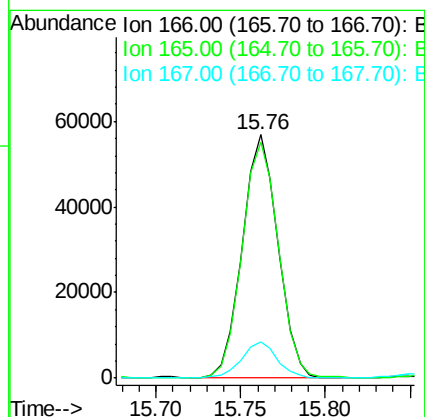
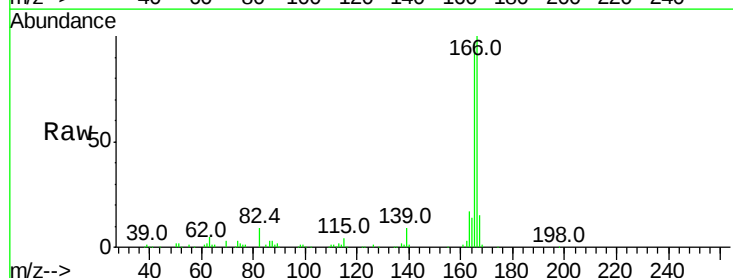
Tgt Ion:166 Resp: 83555

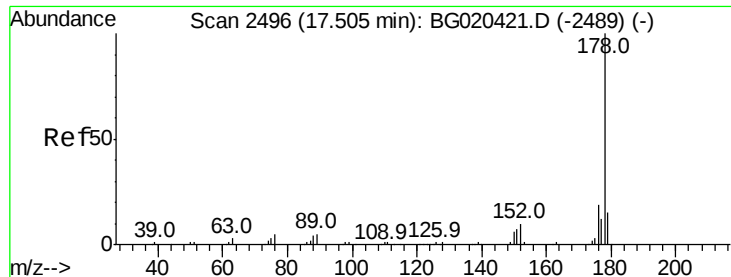
Ion Ratio Lower Upper

166 100

165 96.9 81.4 122.0

167 14.7 11.2 16.8





#70

Phenanthrene

Concen: 161.37 ng/ul

RT: 17.51 min Scan# 2497

Delta R.T. 0.01 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

Tot Ion:178 Resp: 1258196

Ion Ratio Lower Upper

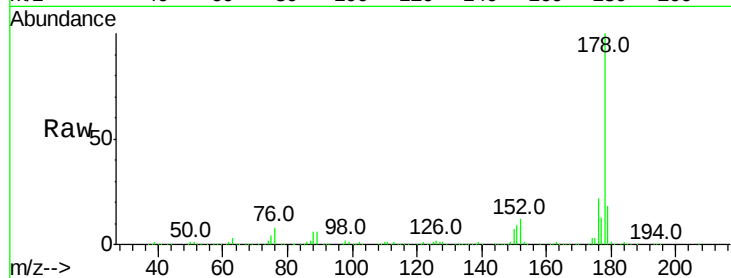
178 100

179 18.2 12.9 19.3

176 21.7 15.3 22.9

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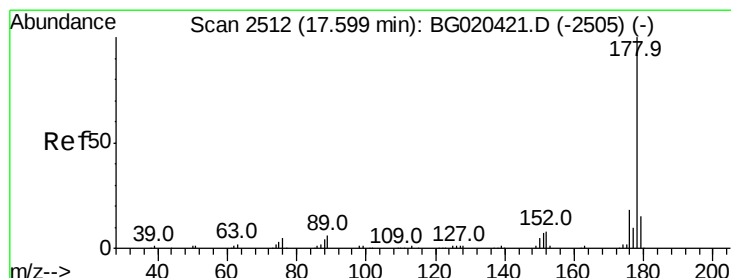
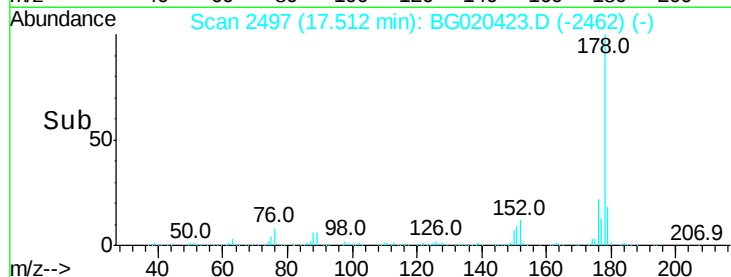
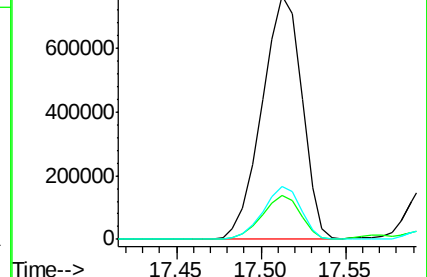
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 33.75 ng/ul

RT: 17.59 min Scan# 2511

Delta R.T. -0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Tgt Ion:178 Resp: 266940

Ion Ratio Lower Upper

178 100

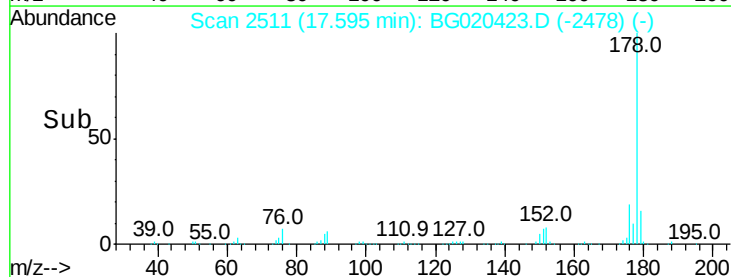
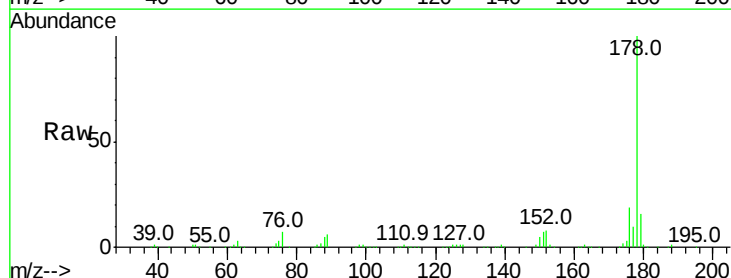
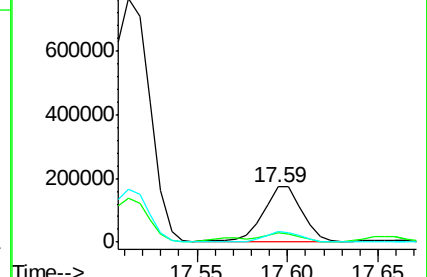
179 16.2 12.3 18.5

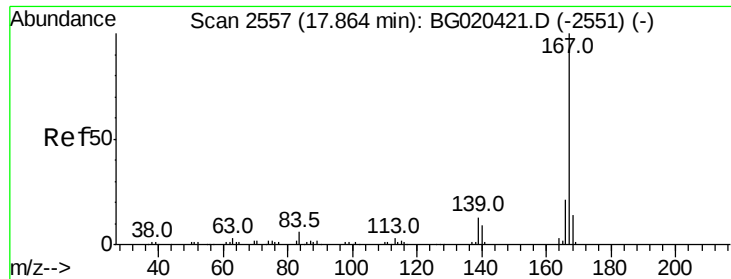
176 18.9 14.3 21.5

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: 24.14 ng/ul

RT: 17.87 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

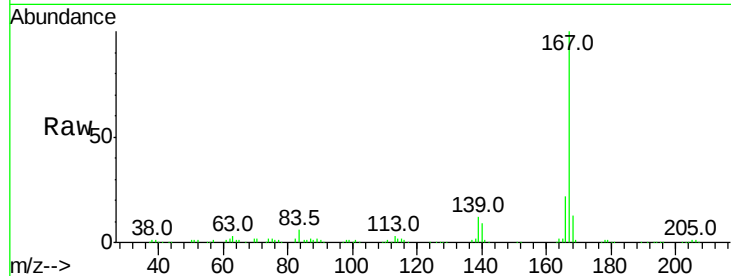
ClientSampleId :

E43M4

Tot Ion:	167	Resp:	160376
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.0	25.6
139	12.1	10.1	15.1

Manual Integrations
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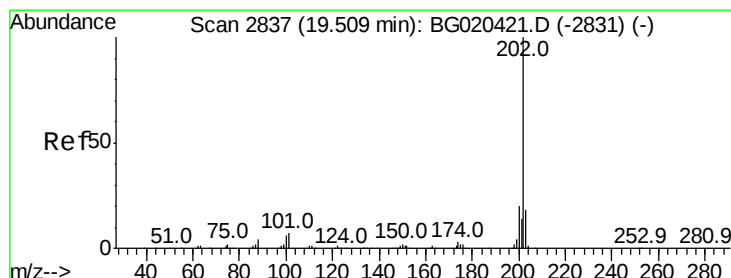
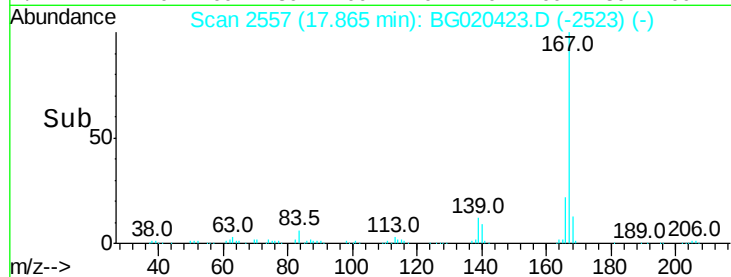
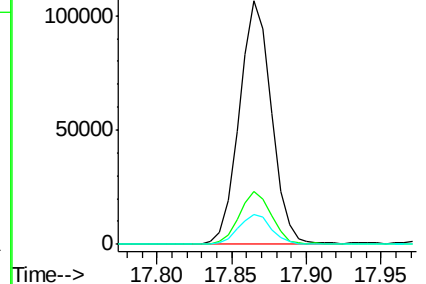
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Fluoranthene

Concen: 240.43 ng/ul

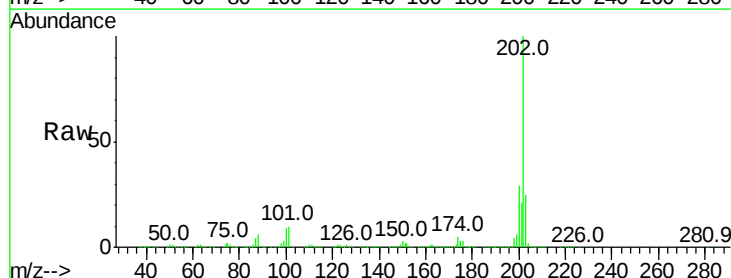
RT: 19.53 min Scan# 2840

Delta R.T. 0.02 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

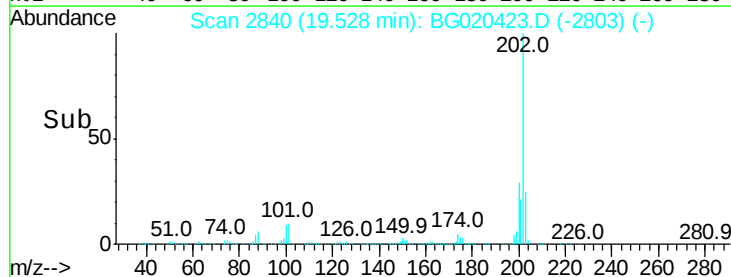
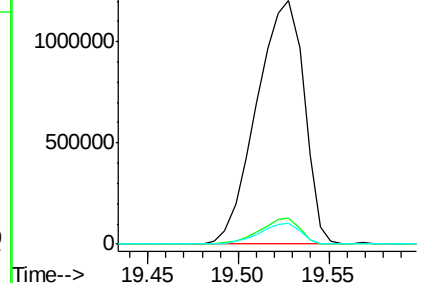
Tgt Ion:	202	Resp:	2190896
Ion Ratio	Lower	Upper	
202	100		
101	10.4	6.2	9.4#
100	8.6	5.1	7.7#

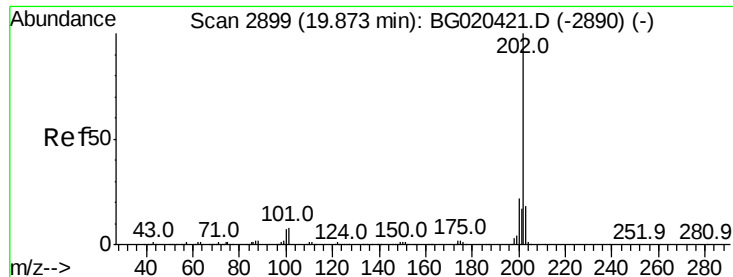


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





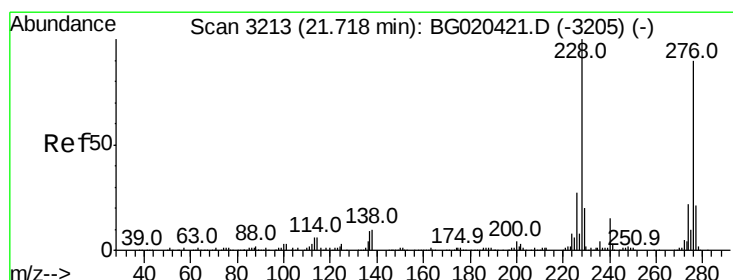
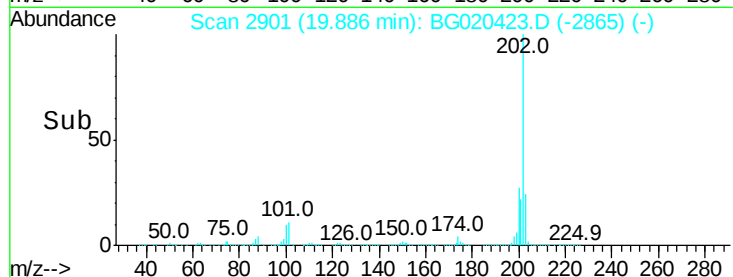
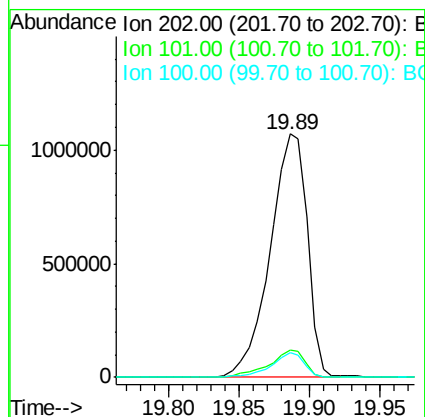
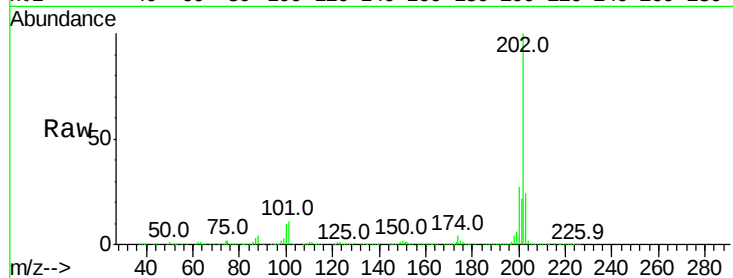
#80
Pvrene
Concen: 182.02 ng/ul
RT: 19.89 min Scan# 2901
Delta R.T. 0.01 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Instrument :
BNA_G
ClientSampleId :
E43M4

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.3	7.0	10.4#
100	10.1	6.4	9.6#

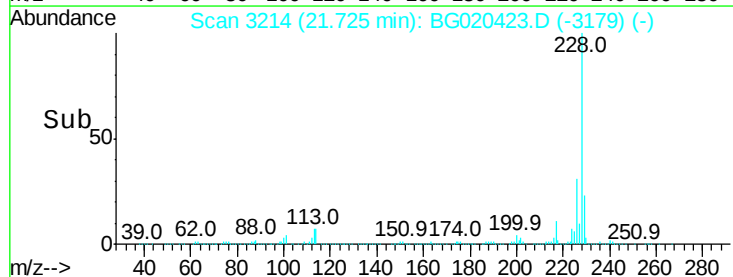
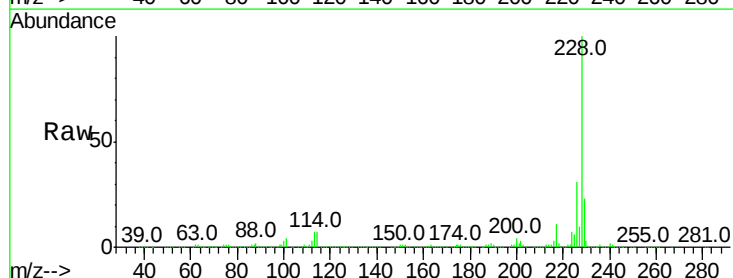
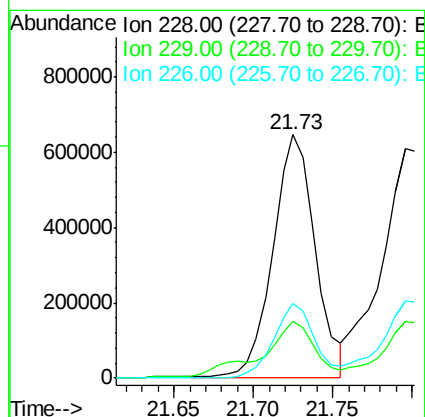
Manual Integrations
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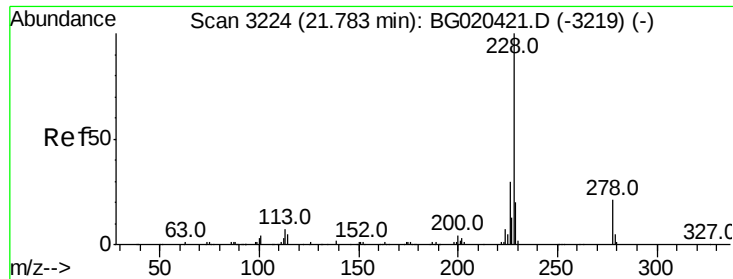
Sohil
12/24/2015 5:33:36 PM



#83
Benzo(a)anthracene
Concen: 114.80 ng/ul
RT: 21.73 min Scan# 3214
Delta R.T. 0.01 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion	Ratio	Lower	Upper
228	100		
229	23.4	15.8	23.8
226	30.7	21.8	32.6





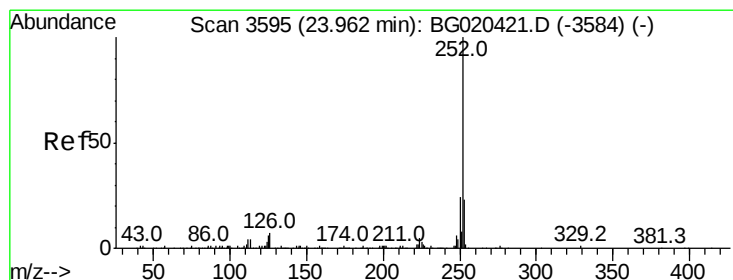
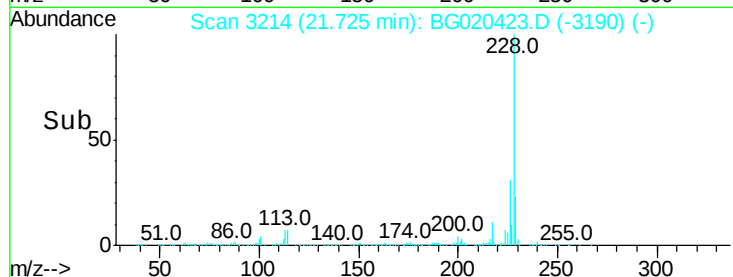
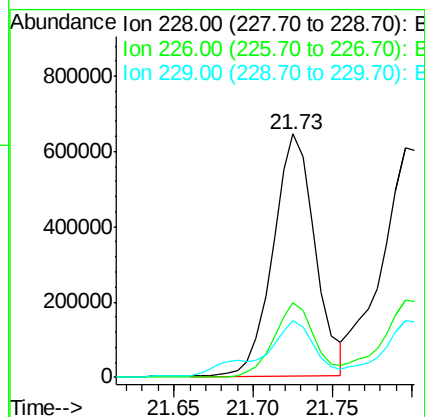
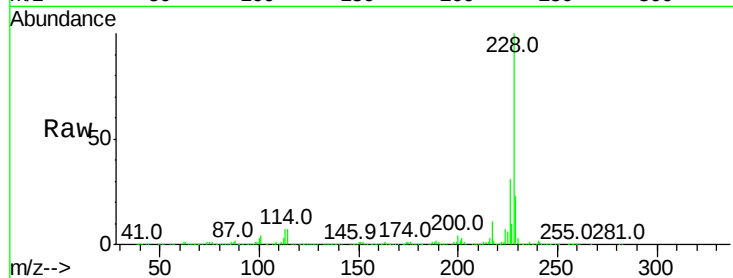
#85
Chrysene
Concen: 120.92 ng/ul
RT: 21.73 min Scan# 3214
Delta R.T. -0.06 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Instrument :
BNA_G
ClientSampleId :
E43M4

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.9	35.9
229	23.4	15.6	23.4

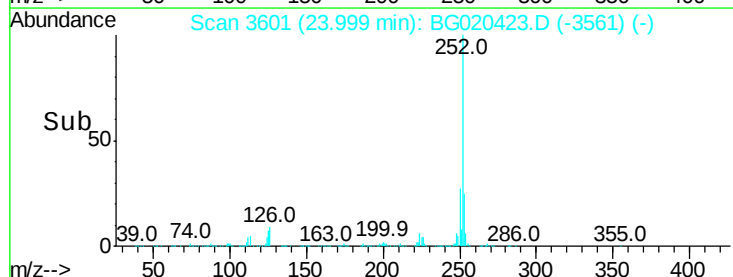
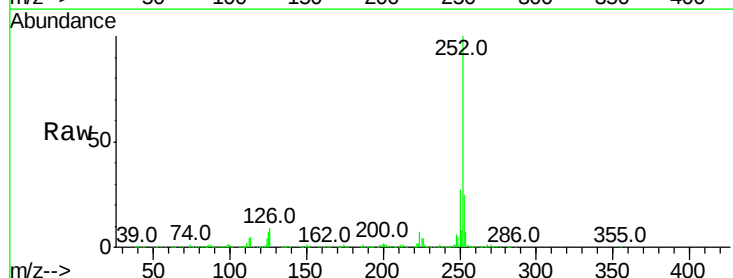
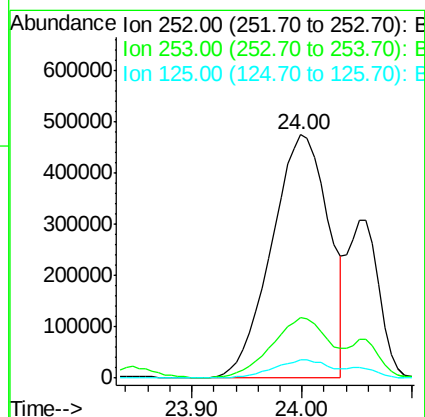
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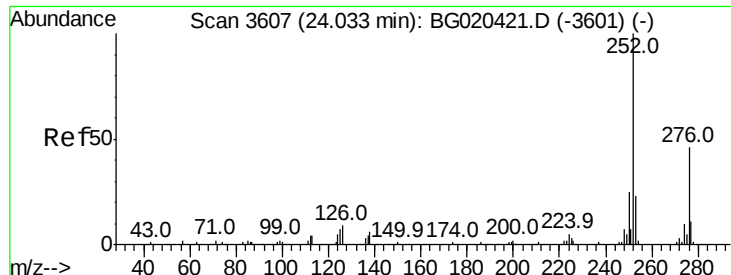
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#88
Benzo(b)fluoranthene
Concen: 159.45 ng/ul
RT: 24.00 min Scan# 3601
Delta R.T. 0.04 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	16.7	25.1
125	7.4	6.2	9.2





#89

Benzo(k)fluoranthene

Concen: 51.49 ng/ul

RT: 24.05 min Scan# 3610

Delta R.T. 0.02 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

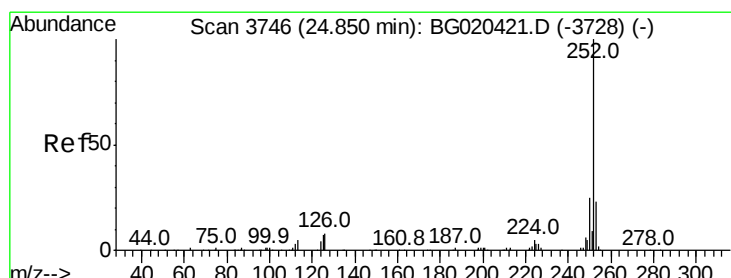
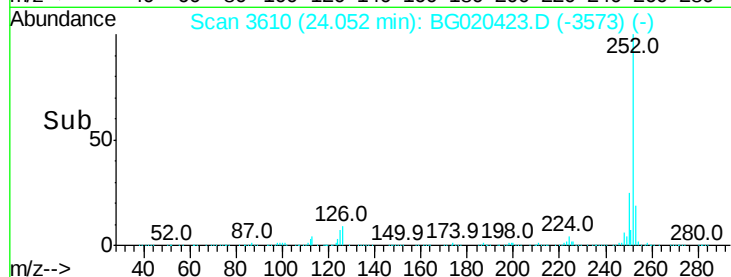
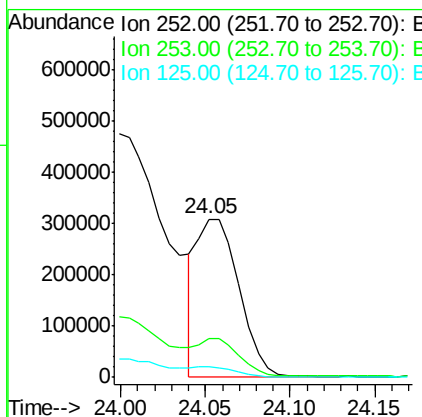
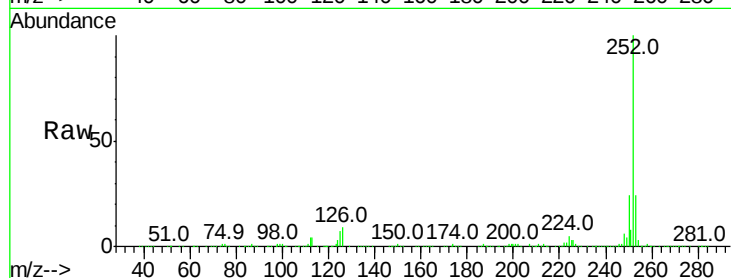
ClientSampleId :

E43M4

Tot Ion	Ratio	Resp	Lower	Upper
252	100	525567		
253	24.5	17.9	26.9	
125	7.1	5.8	8.6	

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#91

Benzo(a)pyrene

Concen: 120.28 ng/ul

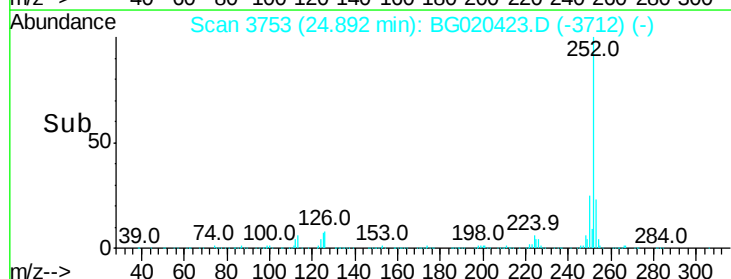
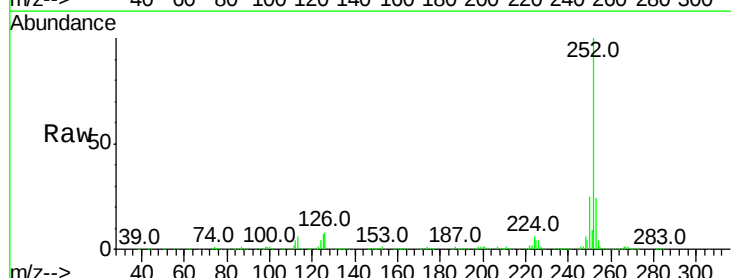
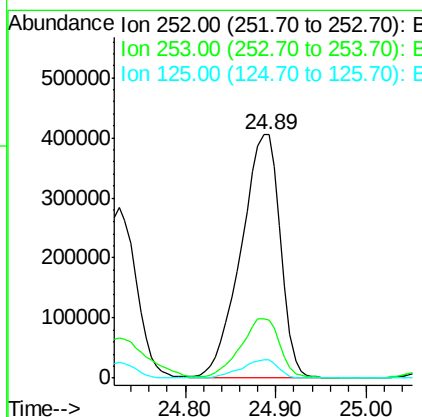
RT: 24.89 min Scan# 3753

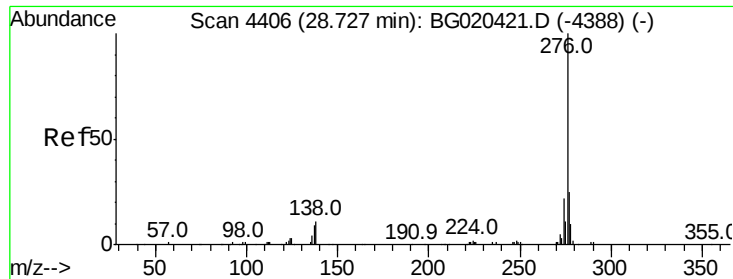
Delta R.T. 0.04 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1212857		
253	23.7	17.0	25.4	
125	7.3	6.2	9.4	





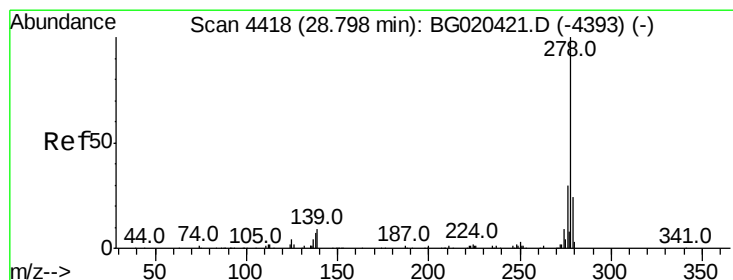
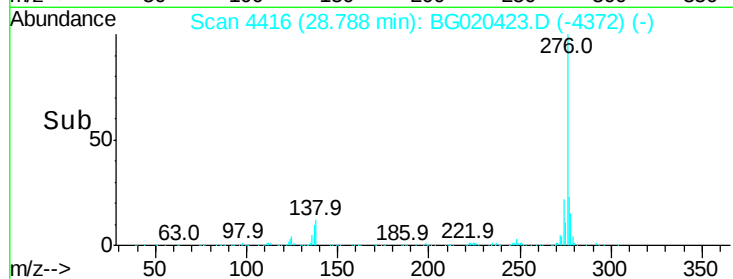
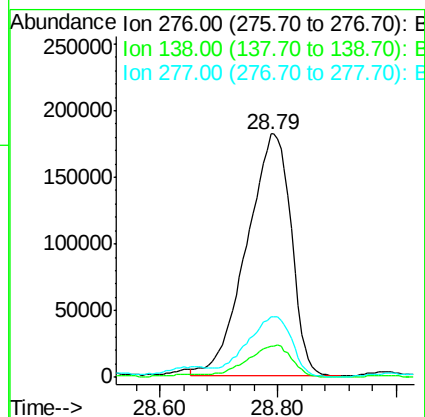
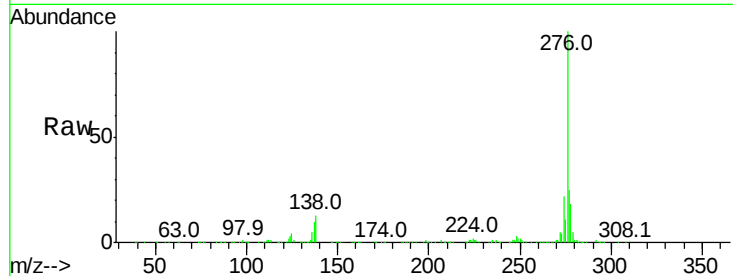
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 79.48 ng/ul
 RT: 28.79 min Scan# 4416
 Delta R.T. 0.06 min
 Lab File: BG020423.D
 Acq: 23 Dec 2015 1:32

Instrument :
 BNA_G
 ClientSampleId :
 E43M4

Tot Ion	Ratio	Lower	Upper
276	100		
138	12.9	11.4	17.0
277	24.7	17.4	26.0

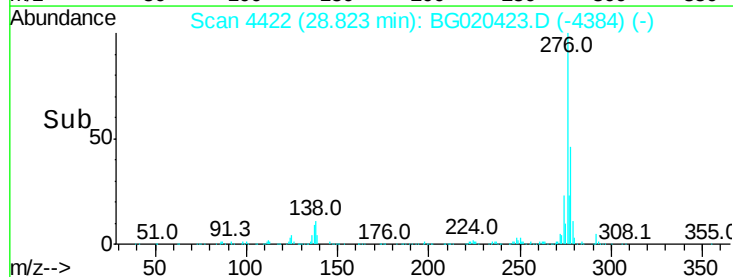
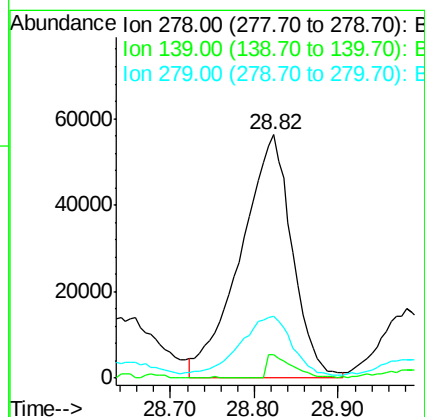
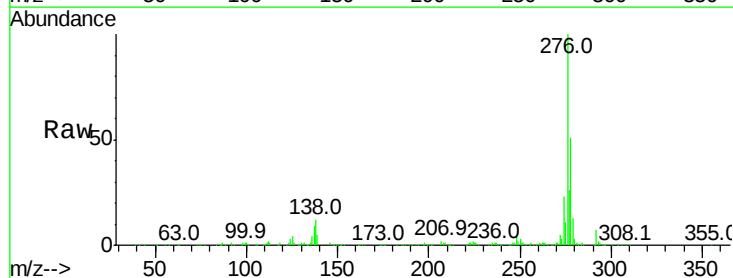
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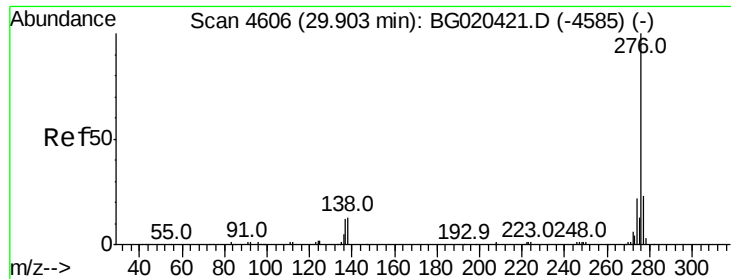
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#93
 Dibenzo(a,h)anthracene
 Concen: 24.00 ng/ul m
 RT: 28.82 min Scan# 4422
 Delta R.T. 0.02 min
 Lab File: BG020423.D
 Acq: 23 Dec 2015 1:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.4	9.4	14.2#
279	25.5	19.4	29.0





#94
 Benzo(a,h,i)perylene
 Concen: 88.57 ng/ul
 RT: 29.97 min Scan# 4617
 Delta R.T. 0.07 min
 Lab File: BG020423.D
 Acq: 23 Dec 2015 1:32

Instrument :
 BNA_G
 ClientSampleId :
 E43M4

Tot Ion	Ratio	Lower	Upper
276	100		
138	12.9	10.8	16.2
277	24.7	19.9	29.9

Manual Integrations
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