

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032516\
 Data File : BG021517.D
 Acq On : 25 Mar 2016 16:59
 Operator : UM/SJ
 Sample : H1909-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4T51

Quant Time: Mar 25 23:31:14 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG031616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 25 23:28:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	14466	20.00	ng/ul	0.00
18) Naphthalene-d8	10.87	136	68633	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.68	164	43842	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.42	188	98758	20.00	ng/ul	0.00
78) Chrysene-d12	21.68	240	115595	20.00	ng/ul	0.00
86) Perylene-d12	24.90	264	111056	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.46	96	639	1.98	ng/uL	0.00
5) Phenol-d5	7.35	99	18409	13.46	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.39	67	11124	13.73	ng/ul	0.00
9) 2-Chlorophenol-d4	7.64	132	15516	14.94	ng/ul	0.01
13) 4-Methylphenol-d8	8.86	113	16129	13.77	ng/ul	0.01
19) Nitrobenzene-d5	9.23	128	7901	15.34	ng/ul	0.00
22) 2-Nitrophenol-d4	9.95	143	9238	15.70	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.57	165	16407	15.59	ng/ul	0.00
29) 4-Chloroaniline-d4	11.01	131	18688	13.59	ng/ul	0.00
44) Dimethylphthalate-d6	14.08	166	53992	14.79	ng/ul	0.00
47) Acenaphthylene-d8	14.38	160	69205	15.38	ng/ul	0.00
52) 4-Nitrophenol-d4	15.10	143	4846	8.31	ng/ul	0.02
58) Fluorene-d10	15.67	176	49645	15.08	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.80	200	6266	9.60	ng/ul	0.00
71) Anthracene-d10	17.52	188	75741	15.65	ng/ul	0.00
79) Pyrene-d10	19.80	212	85875	15.93	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.68	264	92917	18.13	ng/ul	0.02

Target Compounds

						Qvalue
28) Naphthalene	10.92	128	8467	2.33	ng/ul#	96
34) 2-Methylnaphthalene	12.52	142	4709	1.74	ng/ul	93
35) 1-Methylnaphthalene	12.73	142	4043	1.54	ng/ul#	96
45) Dimethylphthalate	14.13	163	25120	6.62	ng/ul	99
50) Acenaphthene	14.74	153	15461	5.03	ng/ul	99
54) Dibenzofuran	15.08	168	12938	3.00	ng/ul	98
59) Fluorene	15.72	166	16921	4.49	ng/ul	99
70) Phenanthrene	17.46	178	241866	43.25	ng/ul	98
72) Anthracene	17.55	178	50549	8.88	ng/ul	99
75) Carbazole	17.83	167	17123	3.48	ng/ul	99
76) Di-n-butylphthalate	18.36	149	9785	1.54	ng/ul#	95
77) Fluoranthene	19.47	202	272227	40.33	ng/ul#	94
80) Pyrene	19.83	202	251932	36.58	ng/ul#	92
83) Benzo(a)anthracene	21.66	228	128562	18.42	ng/ul	97
85) Chrysene	21.72	228	115489	17.48	ng/ul	97
88) Benzo(b)fluoranthene	23.88	252	125304	17.57	ng/ul	97
89) Benzo(k)fluoranthene	23.88	252	125304	17.88	ng/ul	98
91) Benzo(a)pyrene	24.75	252	99696	14.40	ng/ul	95
92) Indeno(1,2,3-cd)pyrene	28.57	276	57778	7.34	ng/ul#	94
93) Dibenzo(a,h)anthracene	28.61	278	16787	2.51	ng/ul#	93
94) Benzo(g,h,i)perylene	29.72	276	53075	8.20	ng/ul	97

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QLast Update : Fri Mar 25 23:28:37 2016
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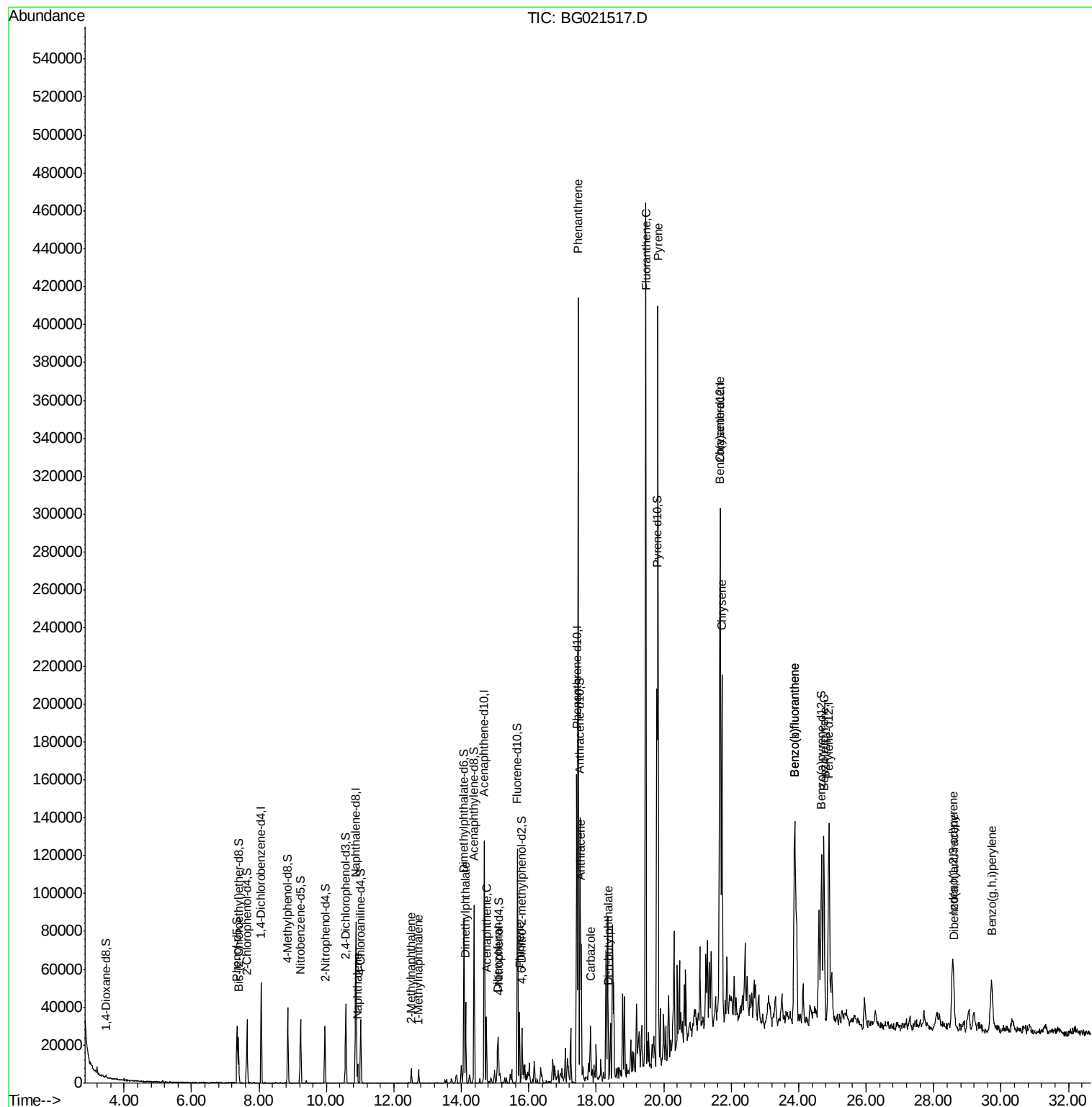
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

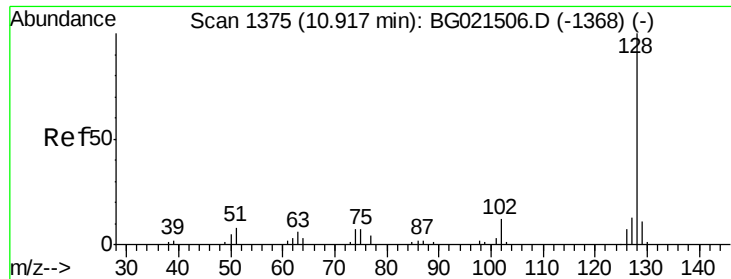
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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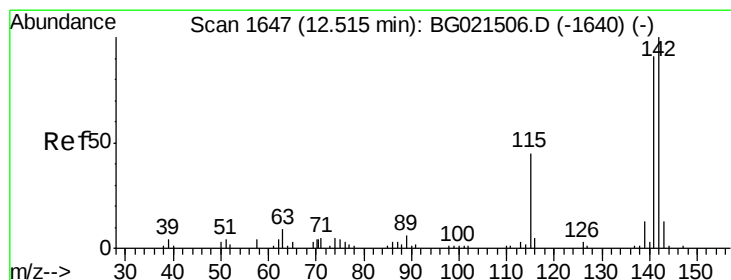
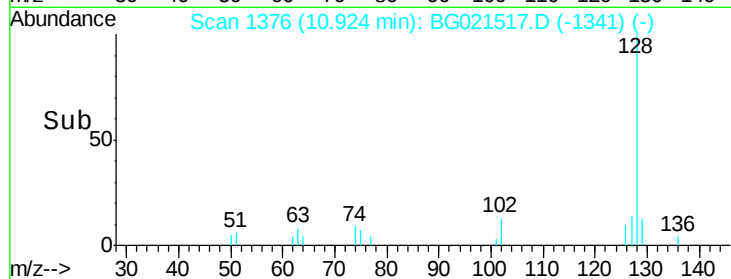
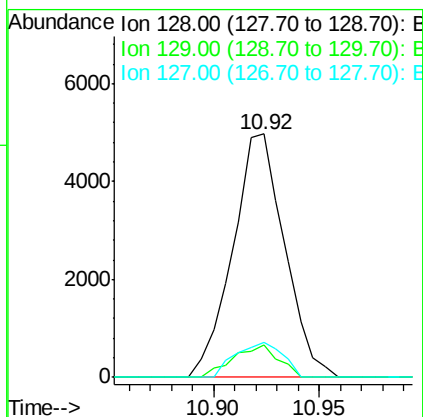
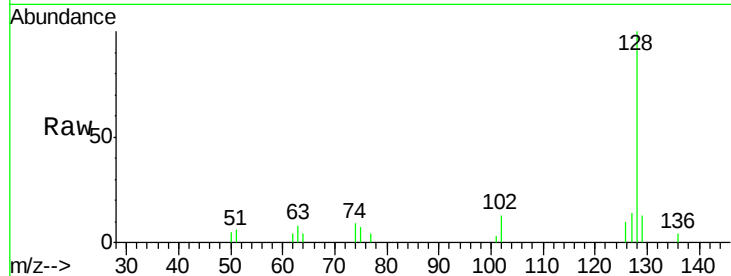




#28
Naphthalene
Concen: 2.33 ng/ul
RT: 10.92 min Scan# 1376
Delta R.T. 0.01 min
Lab File: BG021517.D
Acq: 25 Mar 2016 16:59

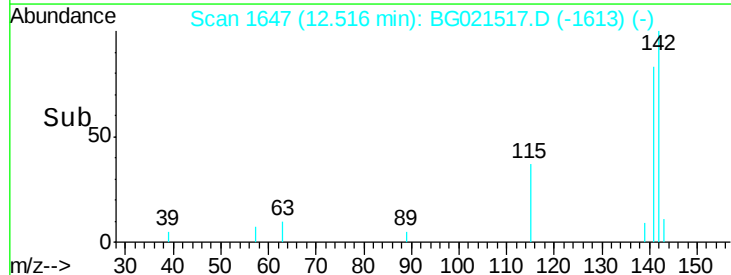
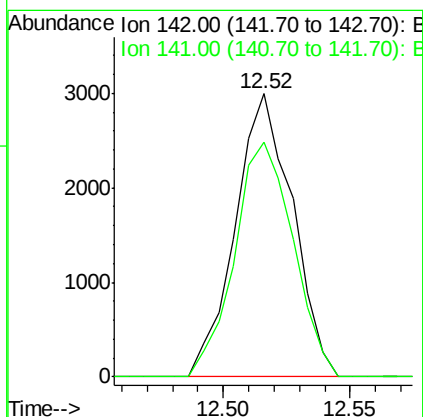
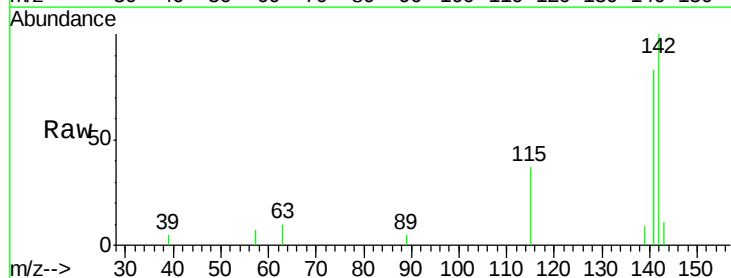
Instrument :
BNA_G
ClientSampleId :
A4T51

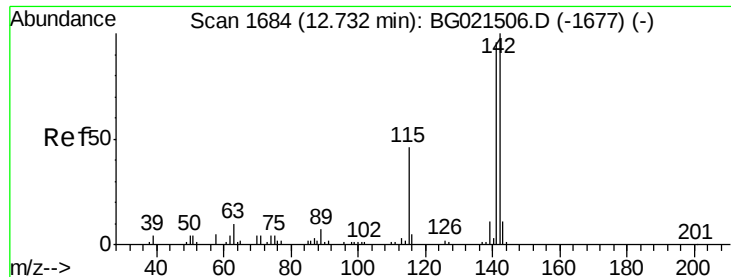
Tgt Ion:128 Resp: 8467
Ion Ratio Lower Upper
128 100
129 13.3 8.3 12.5#
127 14.2 10.8 16.2



#34
2-Methylnaphthalene
Concen: 1.74 ng/ul
RT: 12.52 min Scan# 1647
Delta R.T. 0.00 min
Lab File: BG021517.D
Acq: 25 Mar 2016 16:59

Tgt Ion:142 Resp: 4709
Ion Ratio Lower Upper
142 100
141 83.0 71.3 106.9

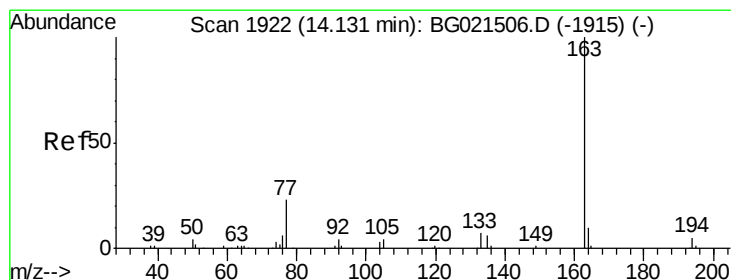
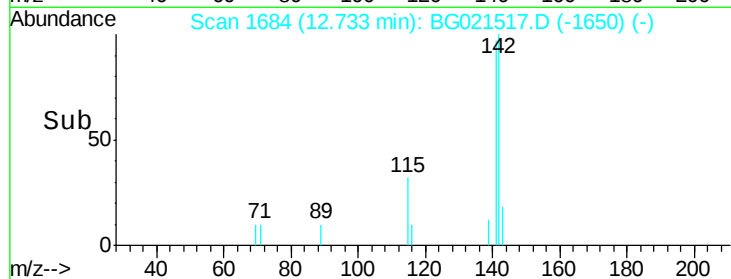
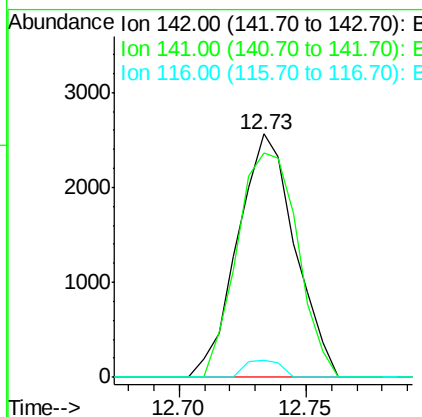
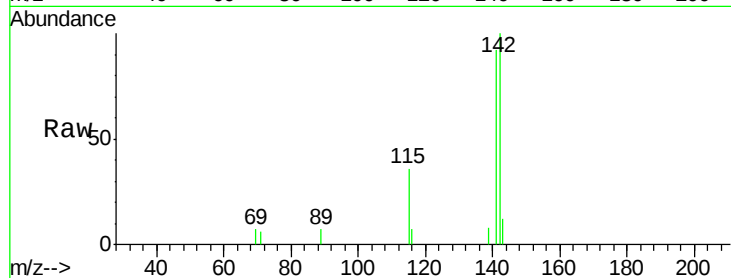




#35
 1-Methylnaphthalene
 Concen: 1.54 ng/ul
 RT: 12.73 min Scan# 1684
 Delta R.T. 0.00 min
 Lab File: BG021517.D
 Acq: 25 Mar 2016 16:59

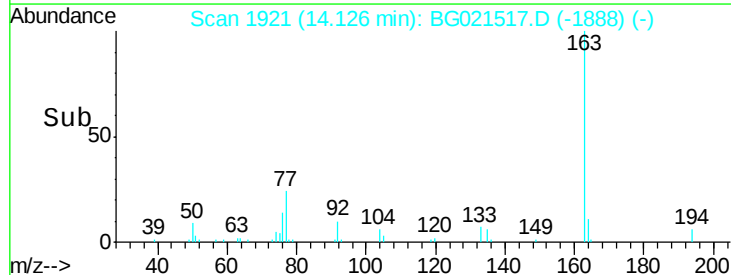
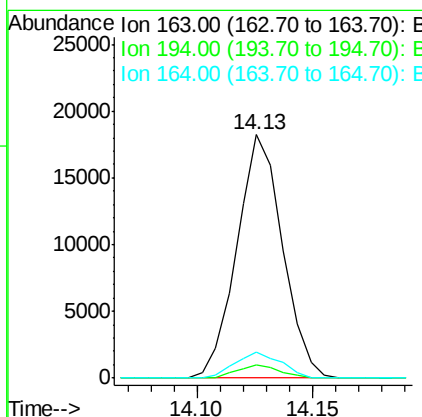
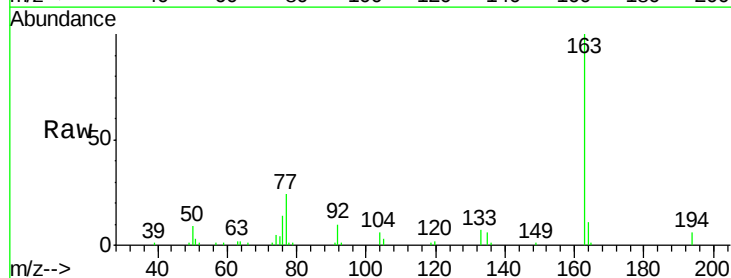
Instrument :
 BNA_G
 ClientSampleId :
 A4T51

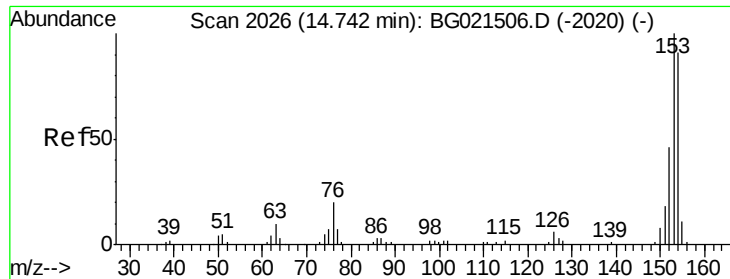
Tgt Ion:142 Resp: 4043
 Ion Ratio Lower Upper
 142 100
 141 92.2 77.0 115.4
 116 6.8 4.2 6.4#



#45
 Dimethylphthalate
 Concen: 6.62 ng/ul
 RT: 14.13 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: BG021517.D
 Acq: 25 Mar 2016 16:59

Tgt Ion:163 Resp: 25120
 Ion Ratio Lower Upper
 163 100
 194 5.5 3.9 5.9
 164 10.8 8.7 13.1





#50

Acenaphthene

Concen: 5.03 ng/ul

RT: 14.74 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

Instrument :

BNA_G

ClientSampleId :

A4T51

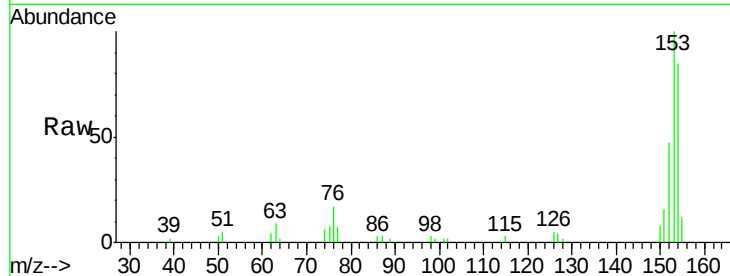
Tgt Ion:153 Resp: 15461

Ion Ratio Lower Upper

153 100

152 46.6 36.5 54.7

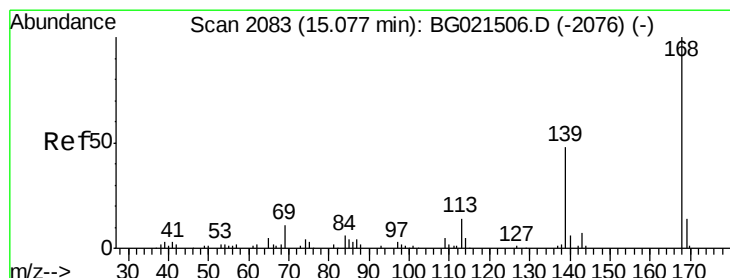
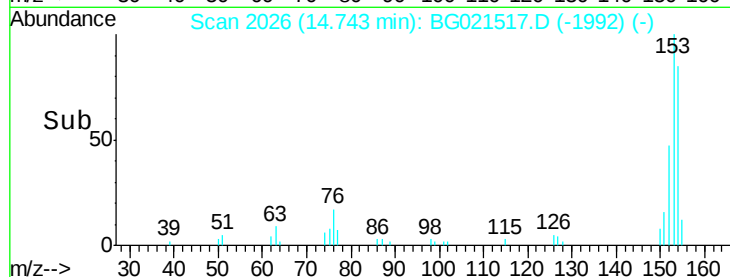
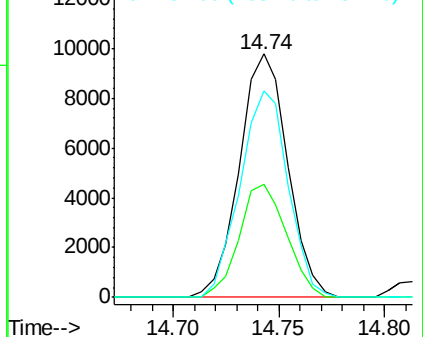
154 85.0 67.3 100.9



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: 3.00 ng/ul

RT: 15.08 min Scan# 2083

Delta R.T. 0.00 min

Lab File: BG021517.D

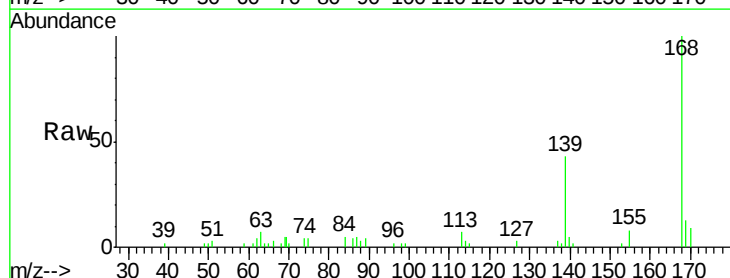
Acq: 25 Mar 2016 16:59

Tgt Ion:168 Resp: 12938

Ion Ratio Lower Upper

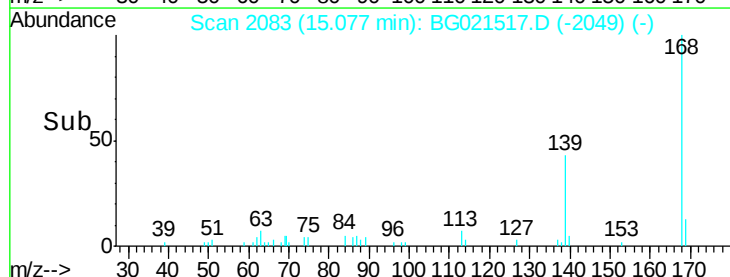
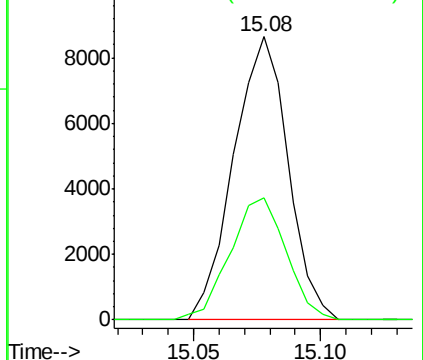
168 100

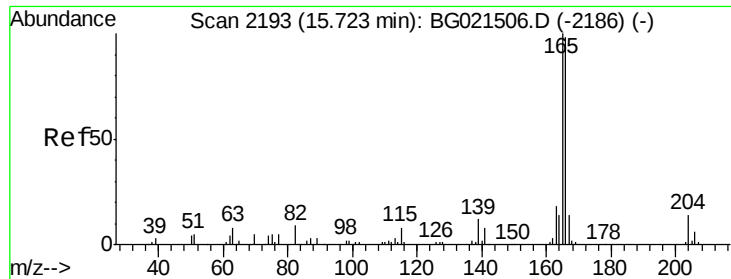
139 42.9 35.2 52.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 4.49 ng/ul

RT: 15.72 min Scan# 2193

Delta R.T. 0.00 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

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ClientSampleId :

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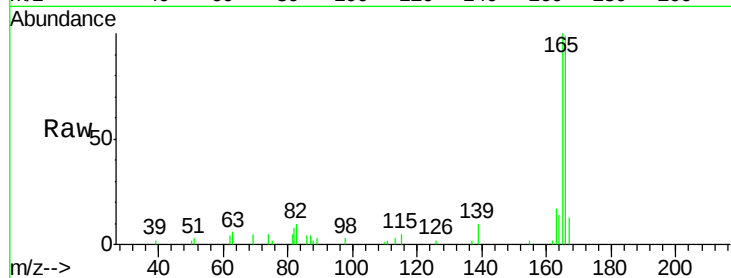
Tgt Ion:166 Resp: 16921

Ion Ratio Lower Upper

166 100

165 100.8 81.1 121.7

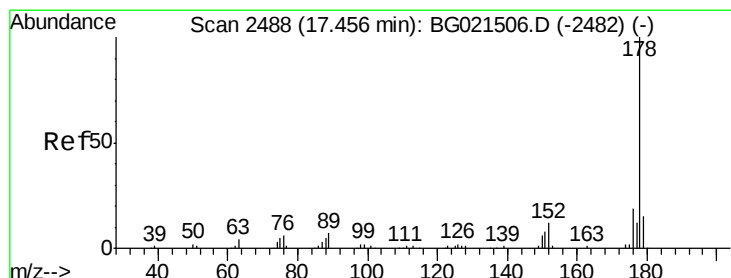
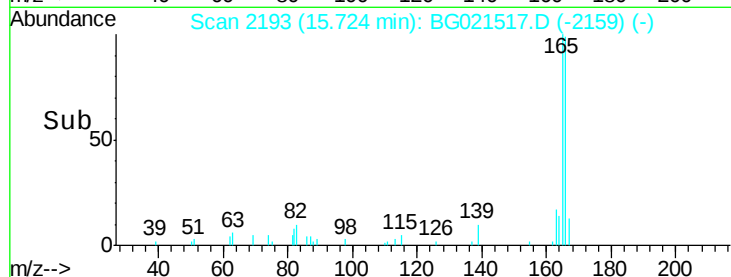
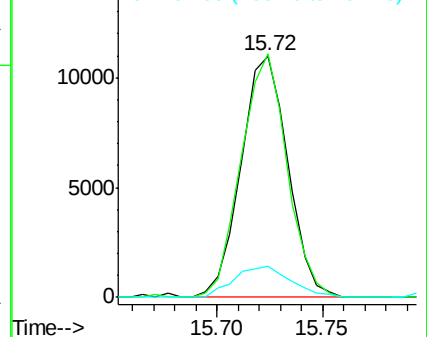
167 12.9 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 43.25 ng/ul

RT: 17.46 min Scan# 2489

Delta R.T. 0.01 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

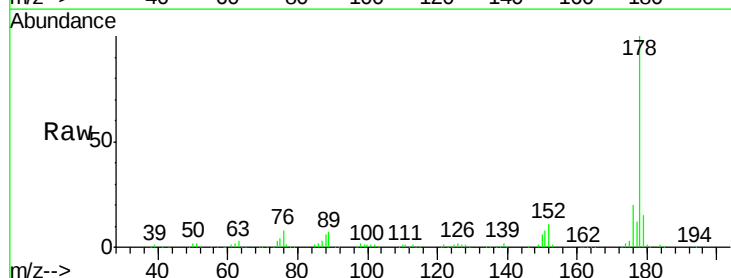
Tgt Ion:178 Resp: 241866

Ion Ratio Lower Upper

178 100

179 15.5 11.8 17.8

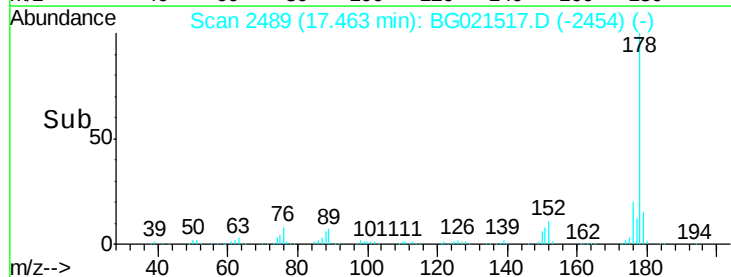
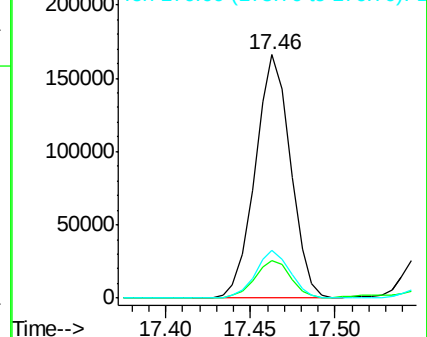
176 19.6 14.8 22.2

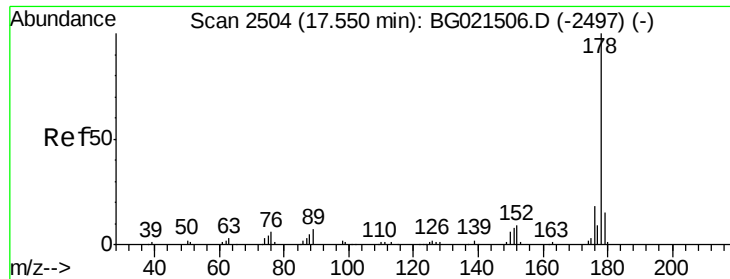


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 8.88 ng/ul

RT: 17.55 min Scan# 2504

Delta R.T. 0.00 min

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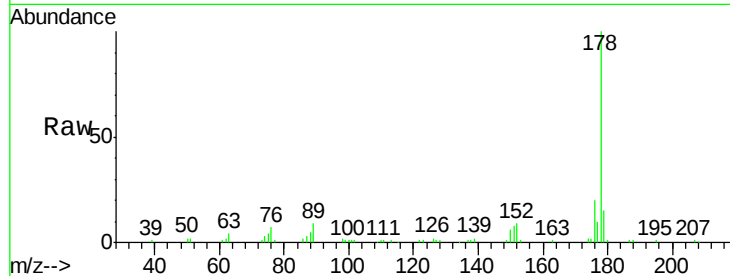
Tgt Ion:178 Resp: 50549

Ion Ratio Lower Upper

178 100

179 14.8 12.9 19.3

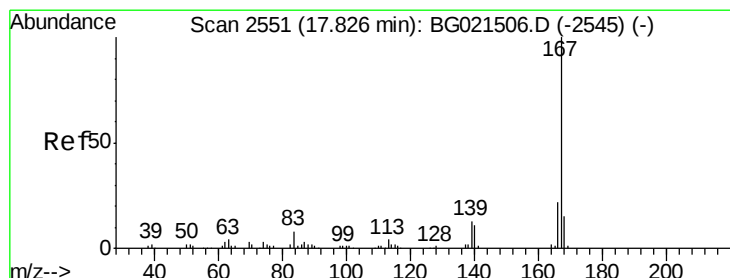
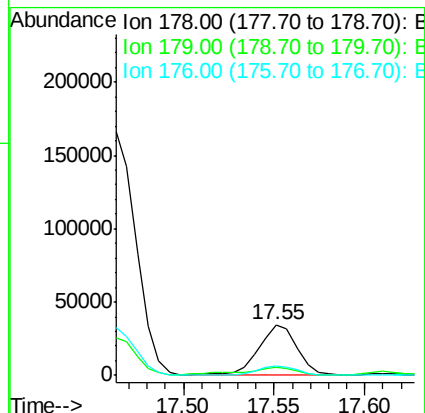
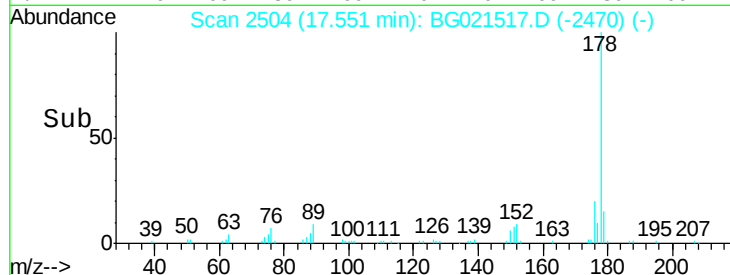
176 19.5 15.6 23.4



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: 3.48 ng/ul

RT: 17.83 min Scan# 2551

Delta R.T. 0.00 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

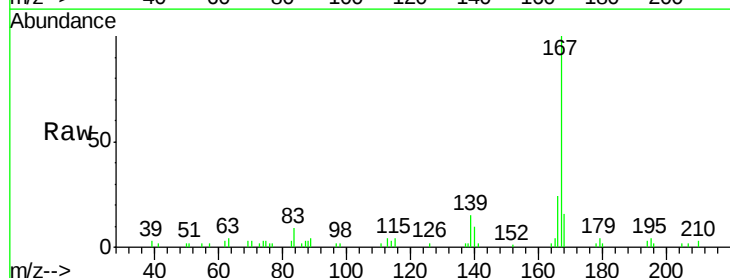
Tgt Ion:167 Resp: 17123

Ion Ratio Lower Upper

167 100

166 24.2 19.0 28.4

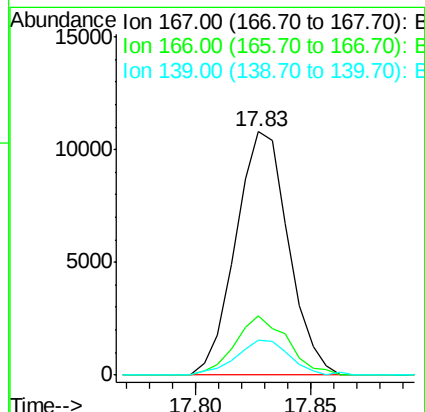
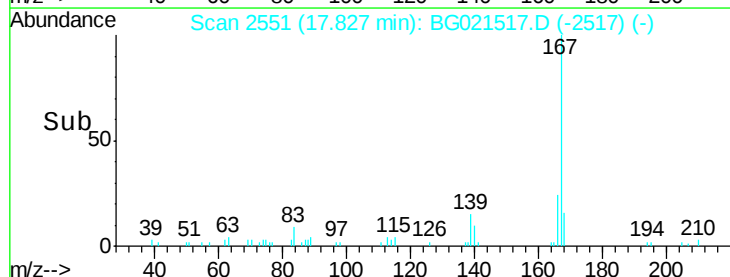
139 14.5 12.2 18.4

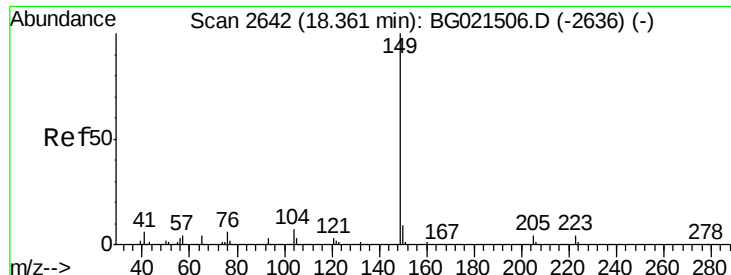


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

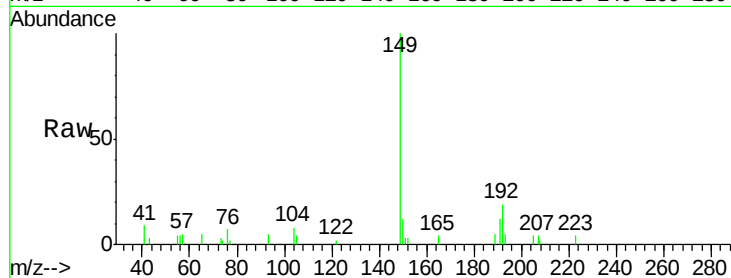




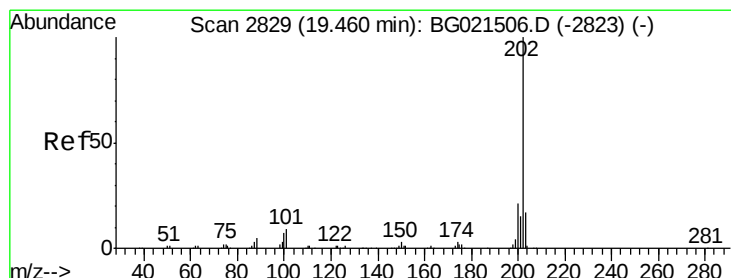
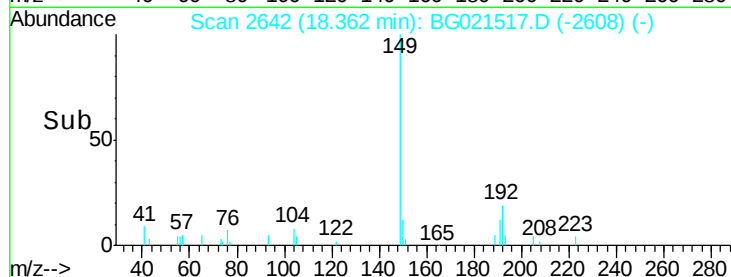
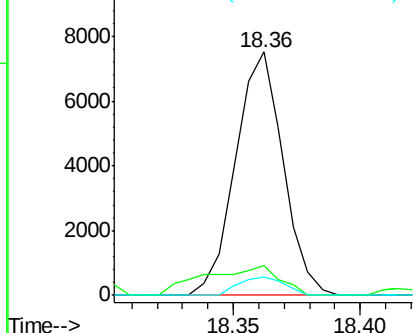
#76
Di-n-butylphthalate
Concen: 1.54 ng/ul
RT: 18.36 min Scan# 2642
Delta R.T. 0.00 min
Lab File: BG021517.D
Acq: 25 Mar 2016 16:59

Instrument :
BNA_G
ClientSampleId :
A4T51

Tgt Ion:149 Resp: 9785
Ion Ratio Lower Upper
149 100
150 12.0 7.5 11.3#
104 7.7 5.4 8.2

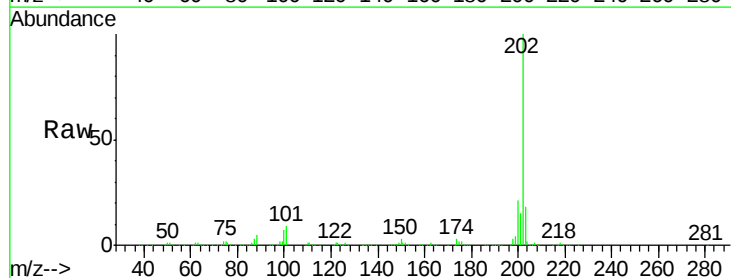


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E

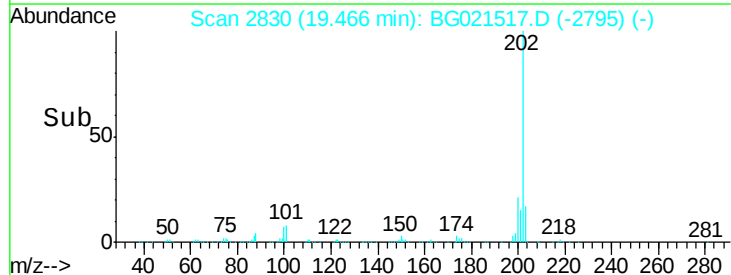
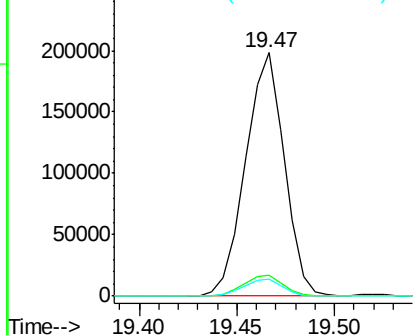


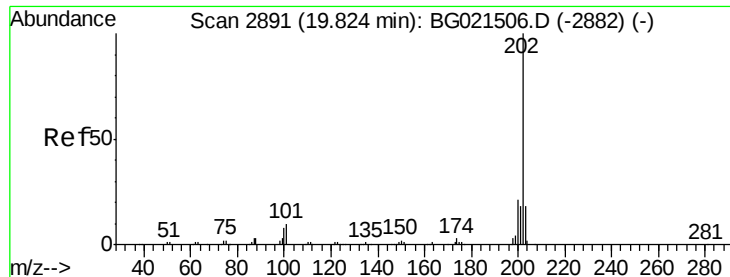
#77
Fluoranthene
Concen: 40.33 ng/ul
RT: 19.47 min Scan# 2830
Delta R.T. 0.01 min
Lab File: BG021517.D
Acq: 25 Mar 2016 16:59

Tgt Ion:202 Resp: 272227
Ion Ratio Lower Upper
202 100
101 8.6 8.9 13.3#
100 6.8 7.0 10.4#



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

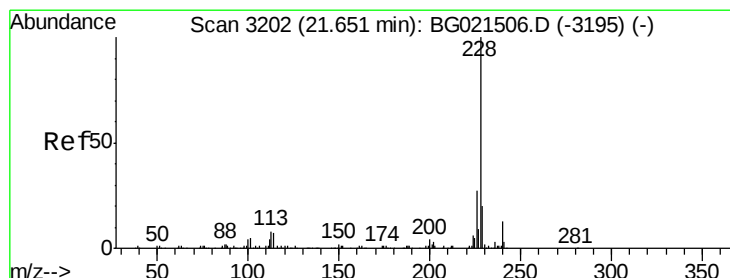
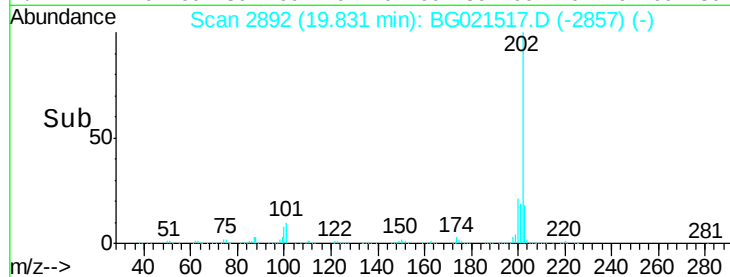
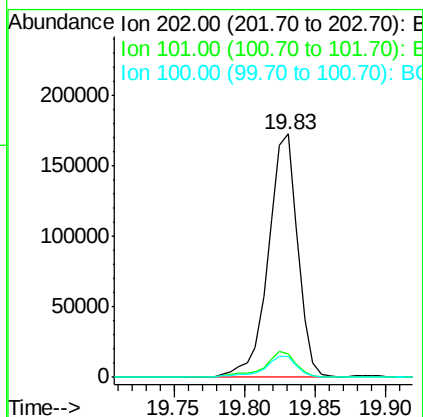
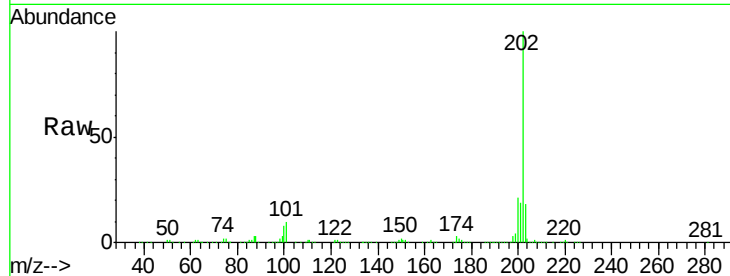




#80
 Pyrene
 Concen: 36.58 ng/ul
 RT: 19.83 min Scan# 2892
 Delta R.T. 0.01 min
 Lab File: BG021517.D
 Acq: 25 Mar 2016 16:59

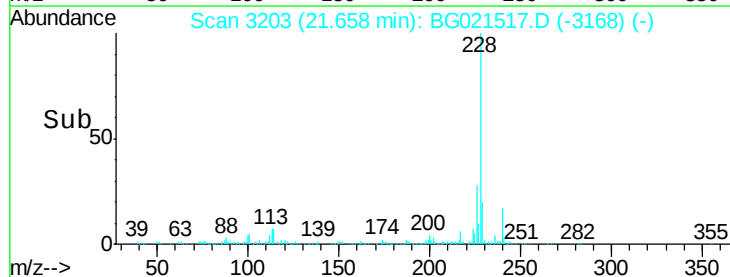
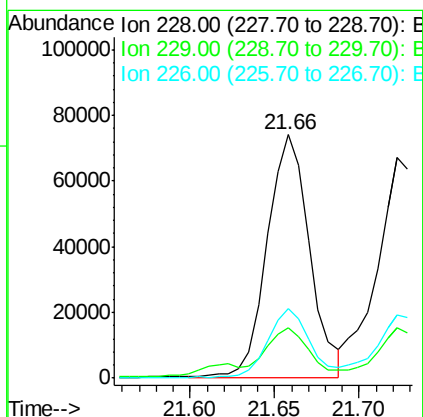
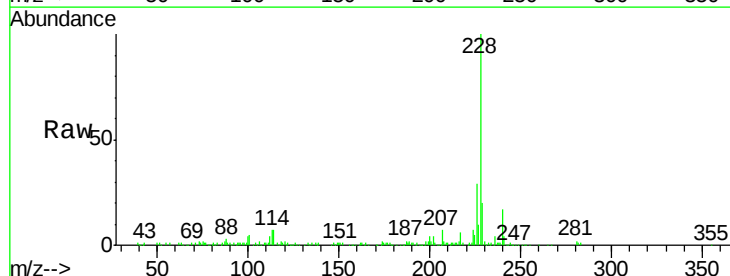
Instrument :
 BNA_G
 ClientSampleId :
 A4T51

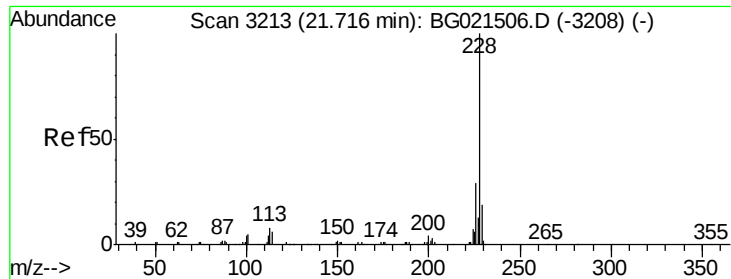
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.6	9.8	14.8#
100	8.4	9.3	13.9#



#83
 Benzo(a)anthracene
 Concen: 18.42 ng/ul
 RT: 21.66 min Scan# 3203
 Delta R.T. 0.01 min
 Lab File: BG021517.D
 Acq: 25 Mar 2016 16:59

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.5	16.6	25.0
226	28.6	21.0	31.4





#85

Chrysene

Concen: 17.48 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.01 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

Instrument :

BNA_G

ClientSampleId :

A4T51

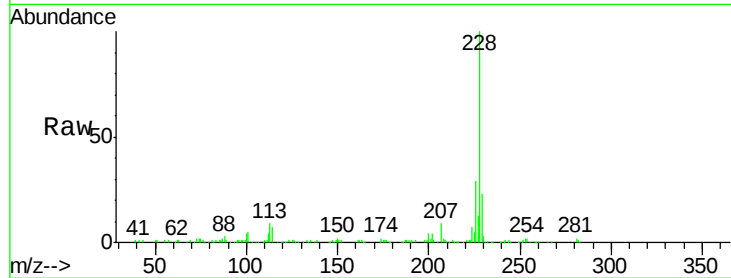
Tgt Ion:228 Resp: 115489

Ion Ratio Lower Upper

228 100

226 28.6 23.4 35.2

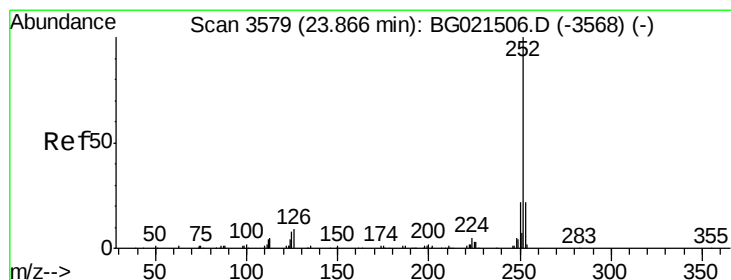
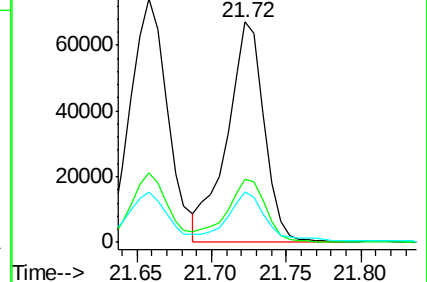
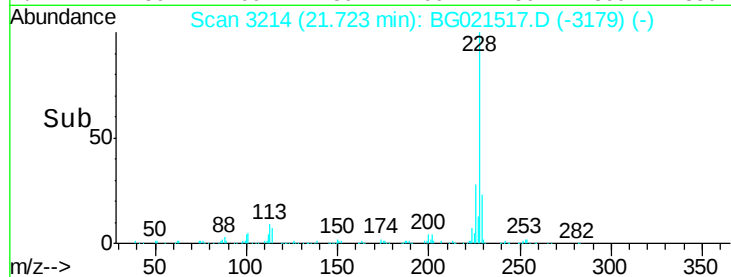
229 23.1 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 17.57 ng/ul

RT: 23.88 min Scan# 3581

Delta R.T. 0.01 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

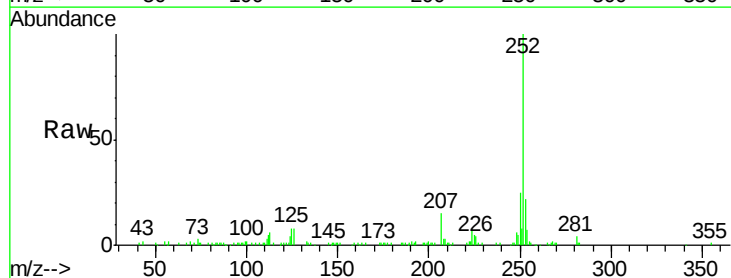
Tgt Ion:252 Resp: 125304

Ion Ratio Lower Upper

252 100

253 21.8 18.1 27.1

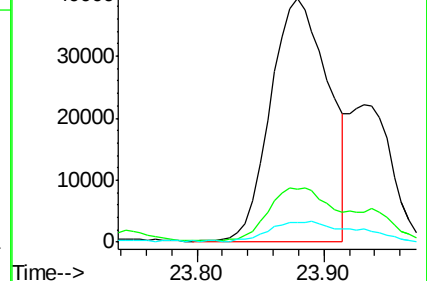
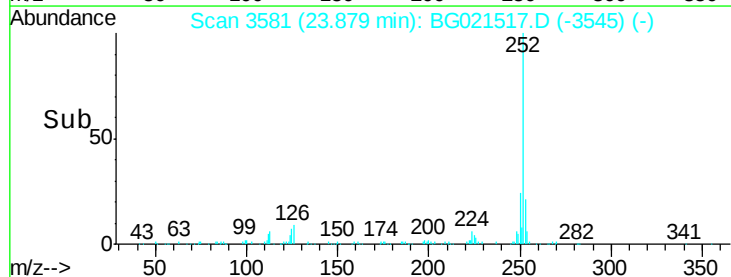
125 7.9 7.6 11.4

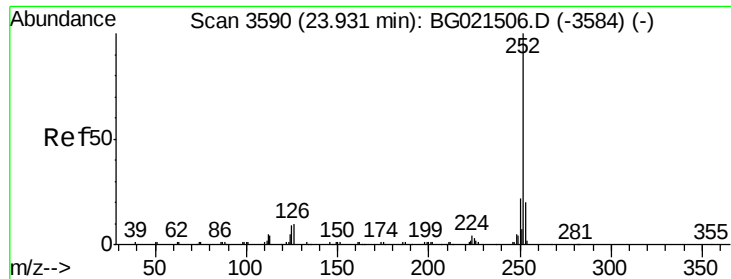


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 17.88 ng/ul

RT: 23.88 min Scan# 3581

Delta R.T. -0.05 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

Instrument :

BNA_G

ClientSampled :

A4T51

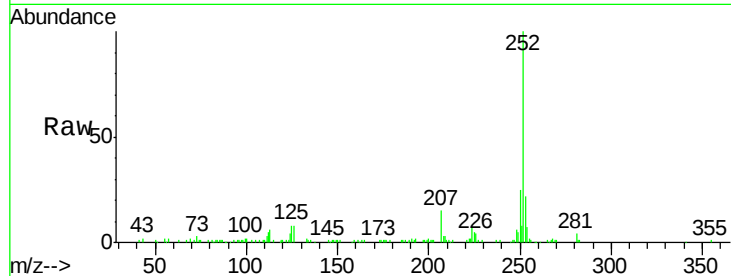
Tgt Ion:252 Resp: 125304

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.8

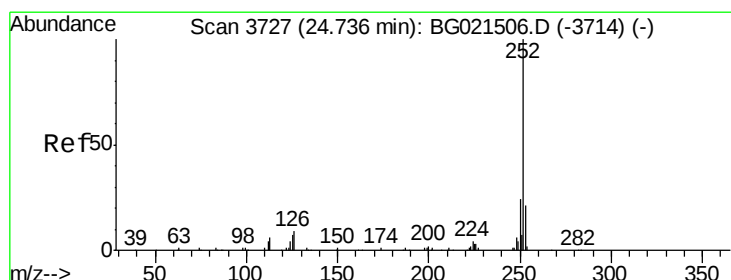
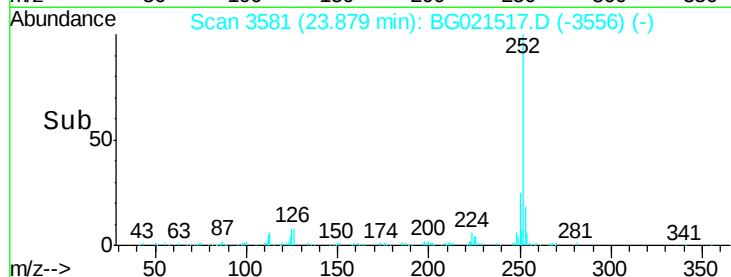
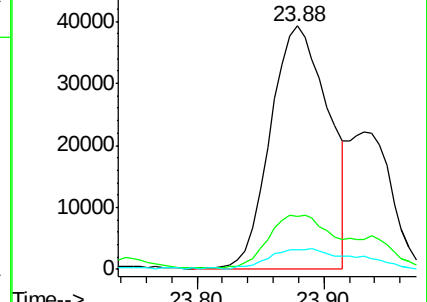
125 7.9 7.7 11.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(a)pyrene

Concen: 14.40 ng/ul

RT: 24.75 min Scan# 3729

Delta R.T. 0.01 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

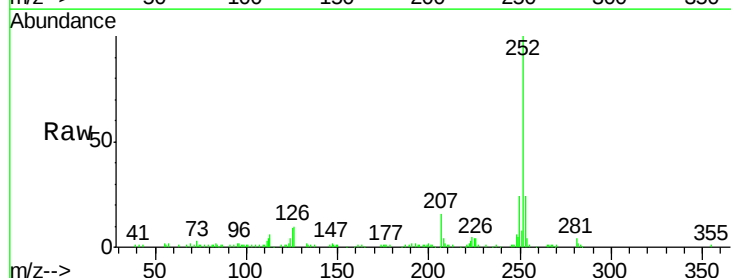
Tgt Ion:252 Resp: 99696

Ion Ratio Lower Upper

252 100

253 24.1 17.4 26.0

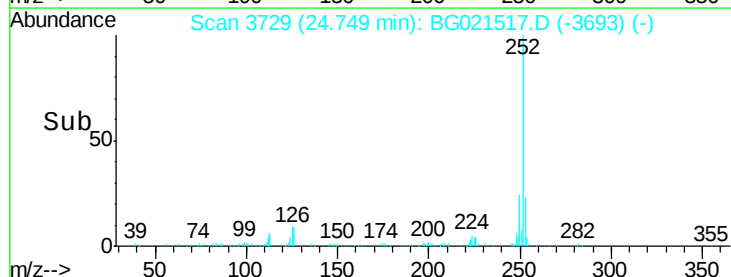
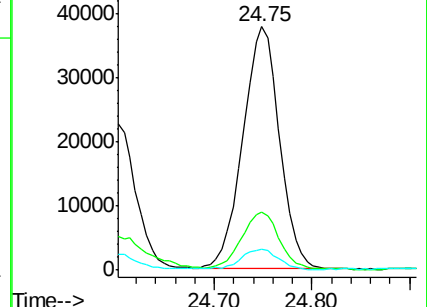
125 8.8 8.2 12.2

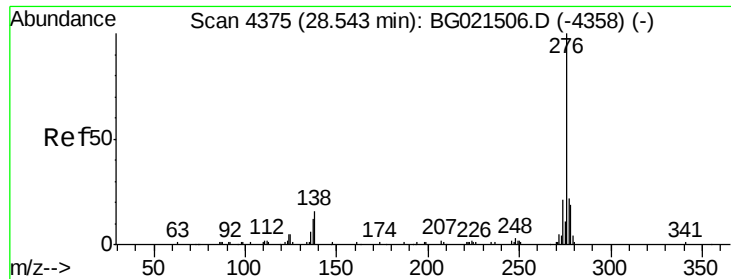


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 7.34 ng/ul

RT: 28.57 min Scan# 4379

Delta R.T. 0.02 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

Instrument :

BNA_G

ClientSampleId :

A4T51

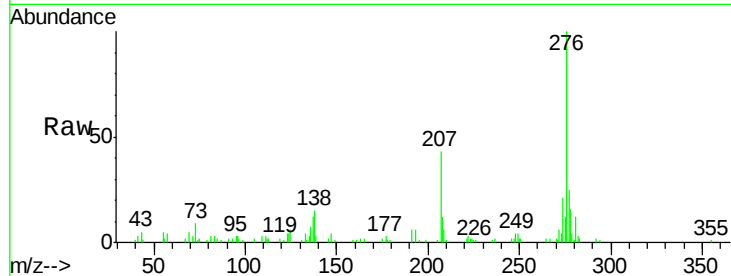
Tgt Ion:276 Resp: 57778

Ion Ratio Lower Upper

276 100

138 15.0 15.8 23.6#

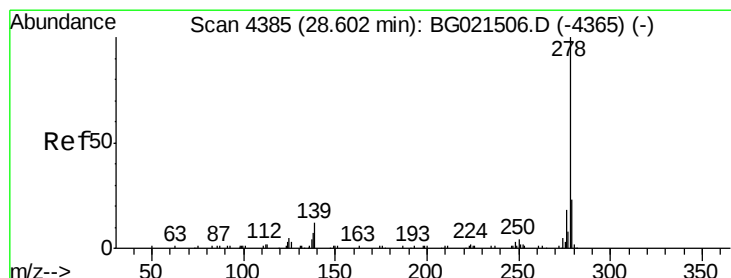
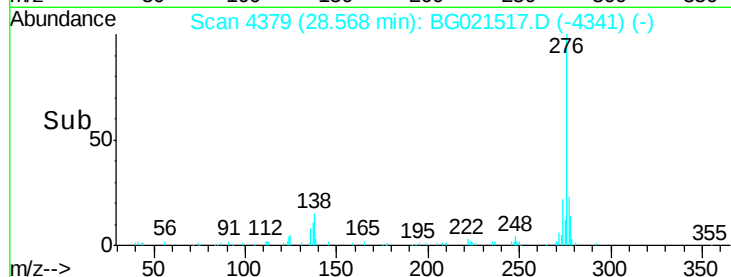
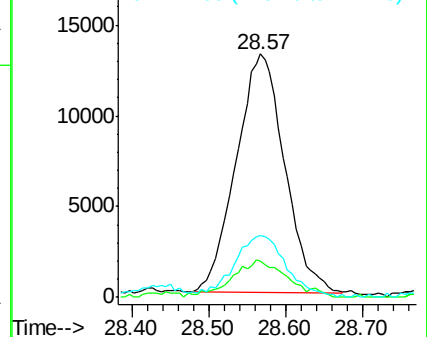
277 25.2 19.0 28.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93

Dibenzo(a,h)anthracene

Concen: 2.51 ng/ul

RT: 28.61 min Scan# 4386

Delta R.T. 0.01 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

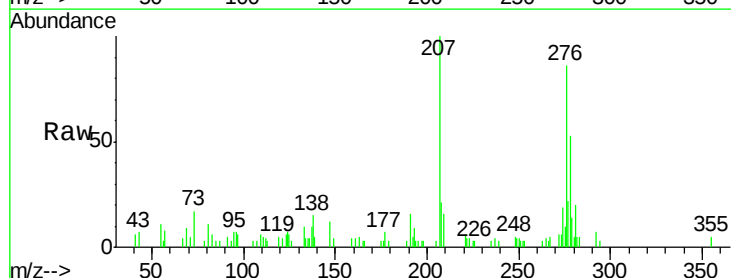
Tgt Ion:278 Resp: 16787

Ion Ratio Lower Upper

278 100

139 9.5 12.1 18.1#

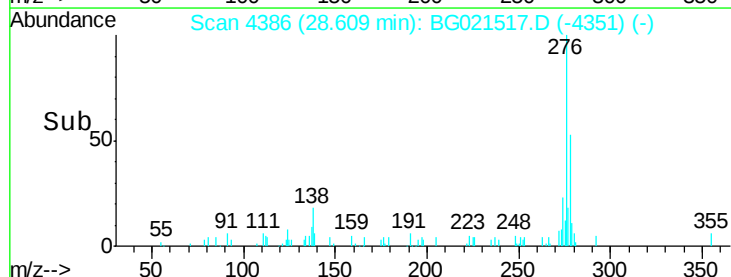
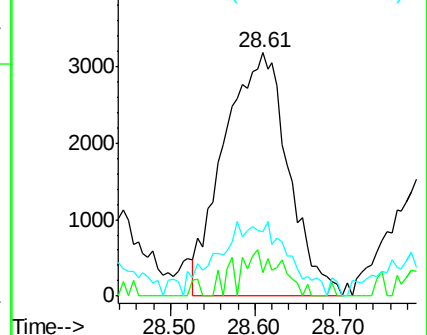
279 26.2 19.8 29.8

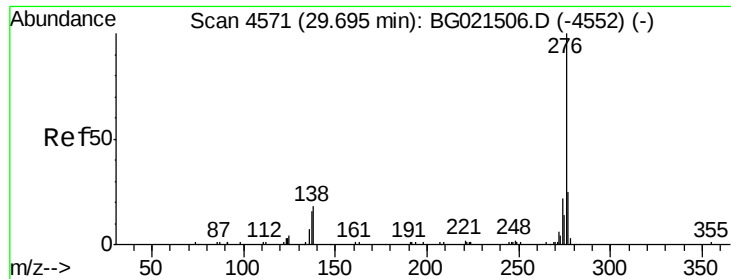


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 8.20 ng/ul

RT: 29.72 min Scan# 4575

Delta R.T. 0.02 min

Lab File: BG021517.D

Acq: 25 Mar 2016 16:59

Instrument :

BNA_G

ClientSampleId :

A4T51

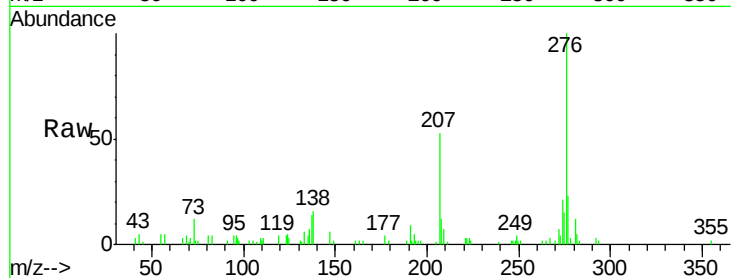
Tgt Ion: 276 Resp: 53075

Ion Ratio Lower Upper

276 100

138 15.9 13.9 20.9

277 23.1 19.8 29.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

