

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032416\
 Data File : BG021493.D
 Acq On : 24 Mar 2016 20:23
 Operator : UM/SJ
 Sample : H1909-11MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4T45MSD

Quant Time: Mar 25 01:50:20 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG031616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 25 01:20:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng/ul	-8.06
18) Naphthalene-d8	10.88	136	906	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.68	164	588	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.41	188	1672	20.00	ng/ul	0.00
78) Chrysene-d12	21.67	240	2307	20.00	ng/ul	0.00
86) Perylene-d12	24.88	264	1337	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	0.00	99	0	0.00	ng/ul	
7) Bis-(2-Chloroethyl)ether-d	0.00	67	0	0.00	ng/ul	
9) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/ul	
13) 4-Methylphenol-d8	0.00	113	0	0.00	ng/ul	
19) Nitrobenzene-d5	0.00	128	0	0.00	ng/ul	
22) 2-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
26) 2,4-Dichlorophenol-d3	0.00	165	0	0.00	ng/ul	
29) 4-Chloroaniline-d4	0.00	131	0	0.00	ng/ul	
44) Dimethylphthalate-d6	0.00	166	0	0.00	ng/ul	
47) Acenaphthylene-d8	0.00	160	0	0.00	ng/ul	
52) 4-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
58) Fluorene-d10	0.00	176	0	0.00	ng/ul	
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.41	188	1672	20.41	ng/ul	-0.10
79) Pyrene-d10	19.79	212	209	1.94	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.75	264	173	2.80	ng/ul	0.09

Target Compounds

						Ovalue
28) Naphthalene	10.92	128	829	17.26	ng/ul#	69
33) 4-Chloro-3-methylphenol	12.26	107	117	6.64	ng/ul#	27
34) 2-Methylnaphthalene	12.52	142	218	6.12	ng/ul	89
35) 1-Methylnaphthalene	12.74	142	145	4.19	ng/ul#	81
45) Dimethylphthalate	14.12	163	14738	289.70	ng/ul	100
48) Acenaphthylene	14.40	152	1922	32.14	ng/ul#	69
50) Acenaphthene	14.74	153	5970	144.76	ng/ul	91
54) Dibenzofuran	15.07	168	4382	75.84	ng/ul	87
57) Diethylphthalate	15.49	149	83	1.53	ng/ul#	59
59) Fluorene	15.72	166	9298	184.07	ng/ul#	96
65) N-Nitrosodiphenylamine	15.93	169	374	7.22	ng/ul#	24
70) Phenanthrene	17.46	178	211221	2230.75	ng/ul	99
72) Anthracene	17.55	178	62060	644.14	ng/ul	98
75) Carbazole	17.83	167	6776	81.29	ng/ul	94
76) Di-n-butylphthalate	18.35	149	1119	10.40	ng/ul#	58
77) Fluoranthene	19.46	202	437672	3830.19	ng/ul	95
80) Pyrene	19.82	202	390359	2839.83	ng/ul#	94
81) Butylbenzylphthalate	20.68	149	219	3.77	ng/ul#	76
82) 3,3'-Dichlorobenzidine	21.69	252	56	1.17	ng/ul#	25
83) Benzo(a)anthracene	21.65	228	205188	1473.38	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.53	149	2801	32.99	ng/ul#	93
85) Chrysene	21.72	228	174253	1321.19	ng/ul	97
87) Di-n-octyl phthalate	22.73	149	133	1.47	ng/ul	100

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Quant Title : SVOA CALIBRATION
QLast Update : Fri Mar 25 01:20:42 2016
Response via : Initial Calibration

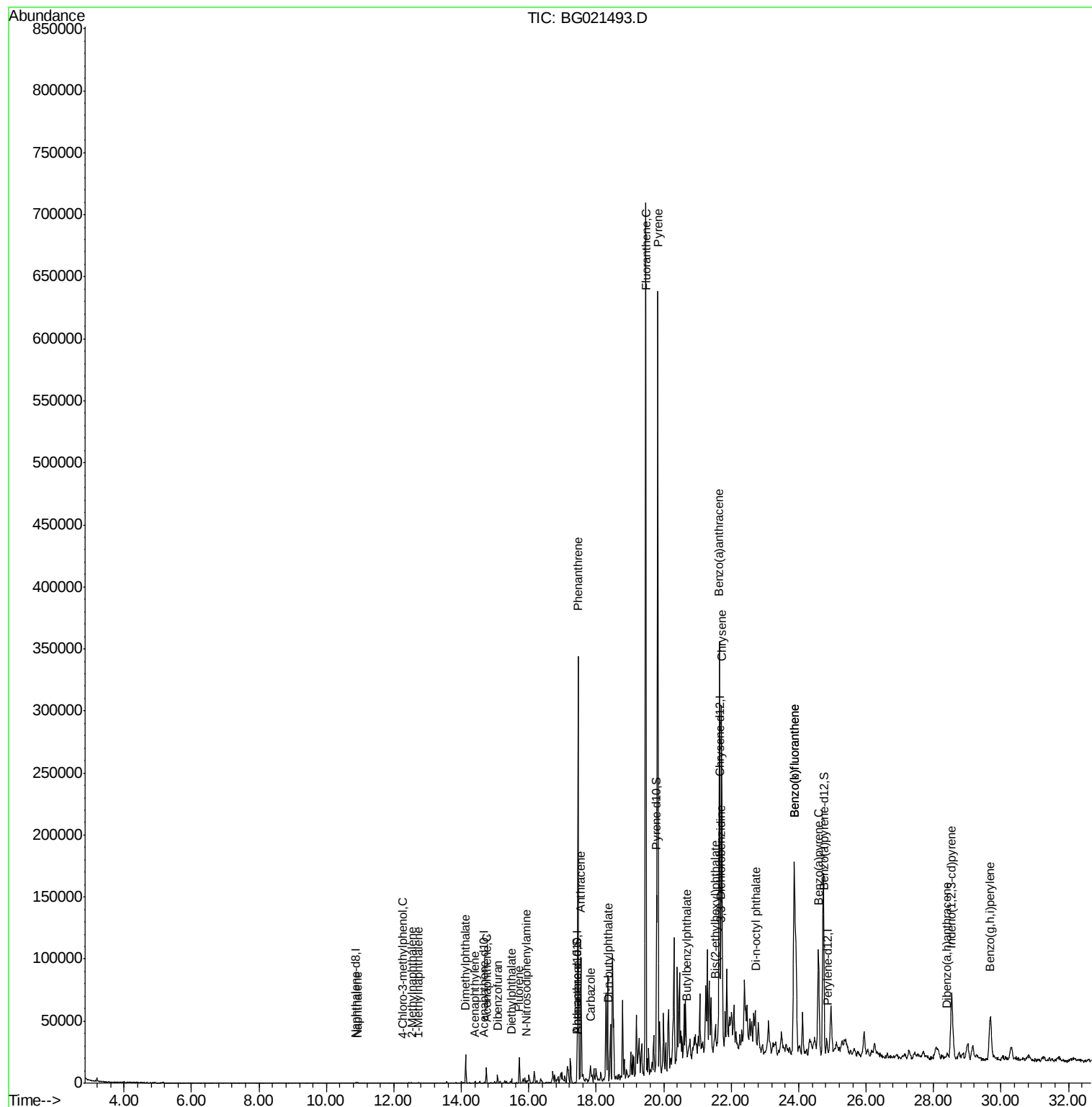
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	23.87	252	194213	2261.42	ng/ul	98
89) Benzo(k)fluoranthene	23.87	252	194213	2302.18	ng/ul	99
91) Benzo(a)pyrene	24.58	252	85423	1024.60	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.53	276	84378	890.52	ng/ul#	94
93) Dibenzo(a,h)anthracene	28.41	278	1824	22.63	ng/ul	92
94) Benzo(a,h,i)perylene	29.69	276	71482	917.42	ng/ul	94

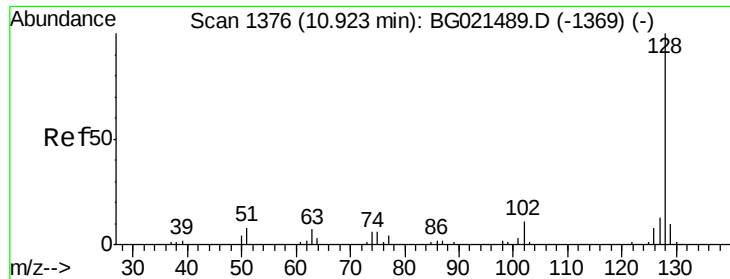
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 17.26 ng/ul

RT: 10.92 min Scan# 1376

Delta R.T. -0.00 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Instrument :

BNA_G

ClientSampleId :

A4T45MSD

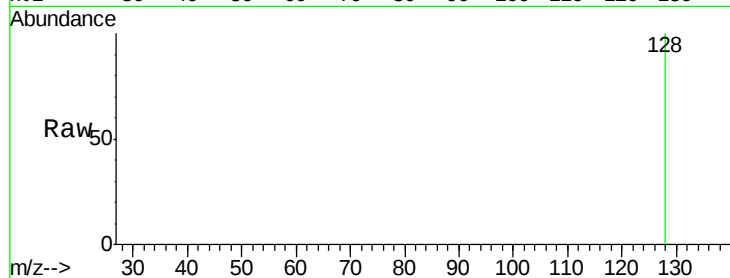
Tot Ion:128 Resp: 829

Ion Ratio Lower Upper

128 100

129 0.0 8.3 12.5#

127 0.0 10.8 16.2#



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

10.92

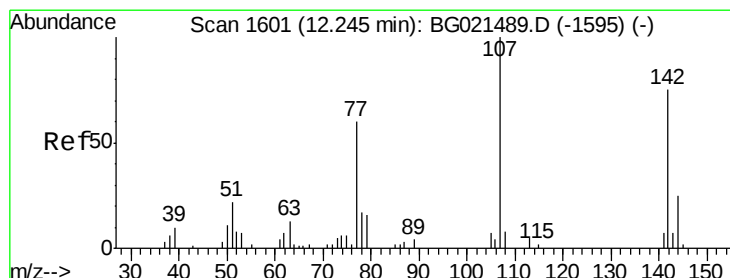
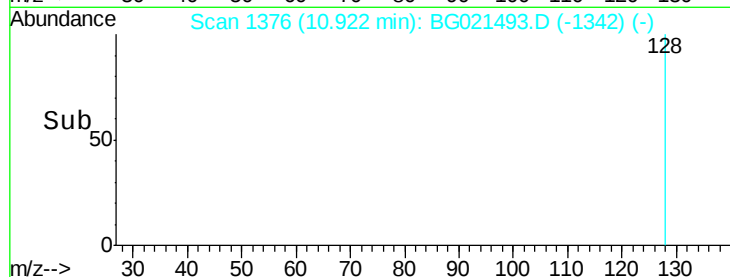
400

200

0

10.90 10.95

Time-->



#33

4-Chloro-3-methylphenol

Concen: 6.64 ng/ul

RT: 12.26 min Scan# 1603

Delta R.T. 0.01 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

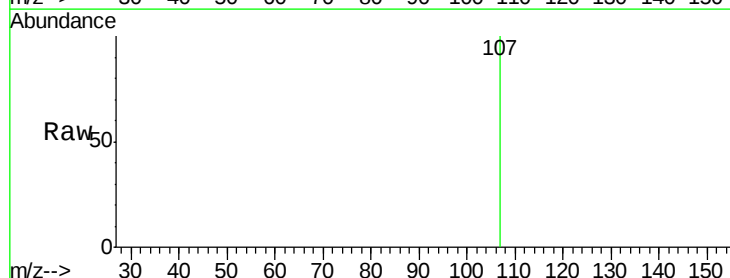
Tgt Ion:107 Resp: 117

Ion Ratio Lower Upper

107 100

144 0.0 17.2 25.8#

142 0.0 52.0 78.0#



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

12.26

200

150

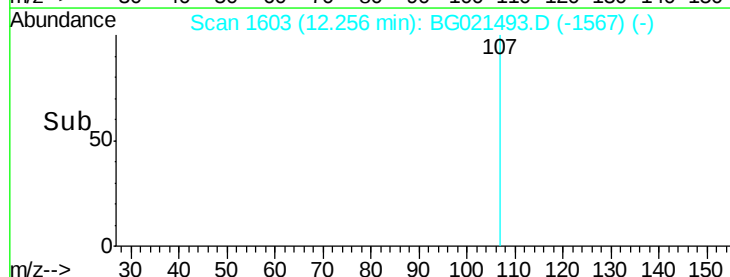
100

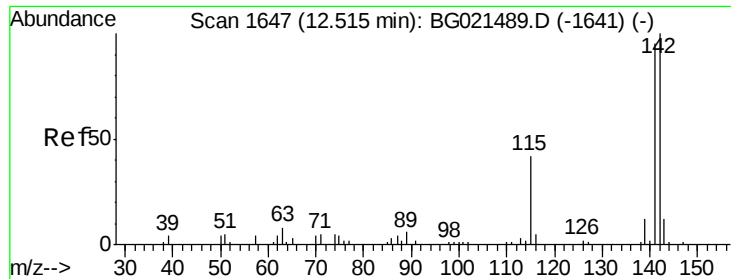
50

0

12.25 12.26 12.27

Time-->

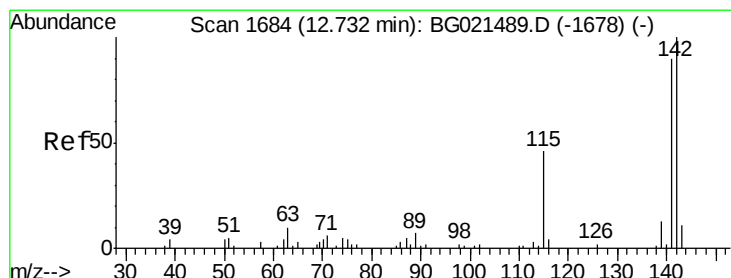
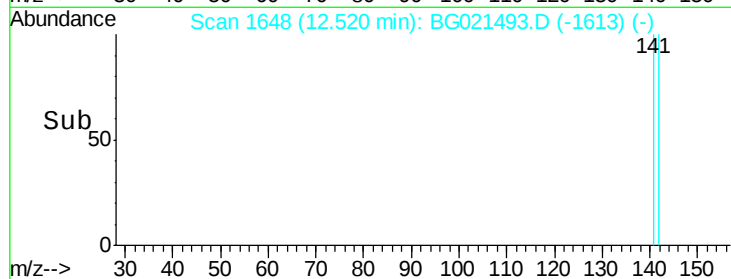
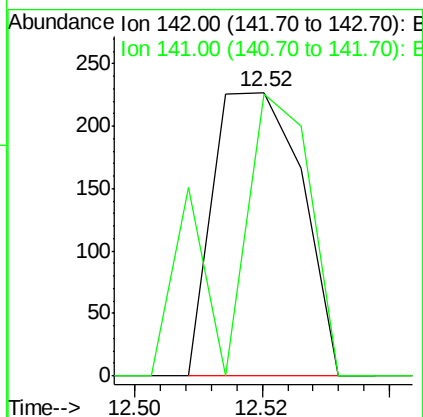
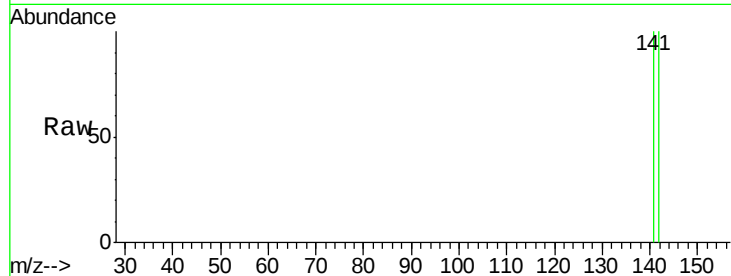




#34
2-Methylnaphthalene
Concen: 6.12 ng/ul
RT: 12.52 min Scan# 1648
Delta R.T. 0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

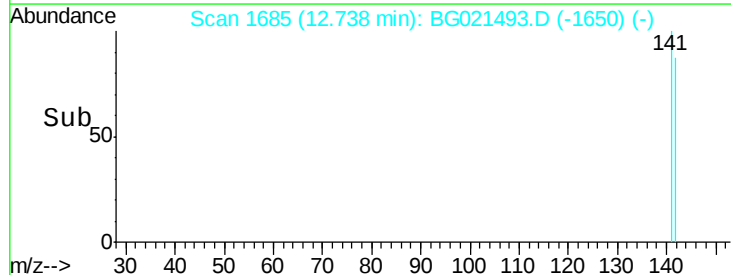
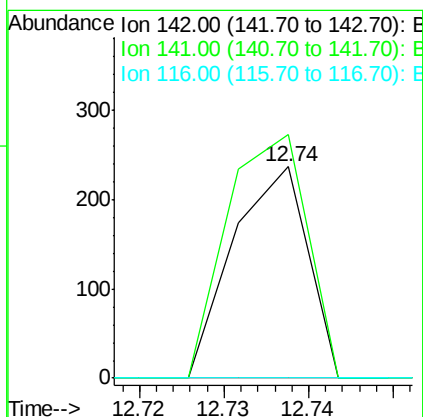
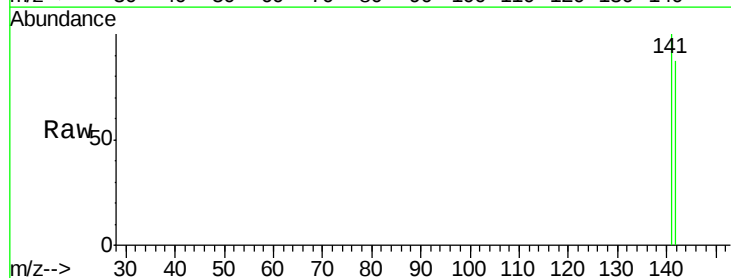
Instrument :
BNA_G
ClientSampleId :
A4T45MSD

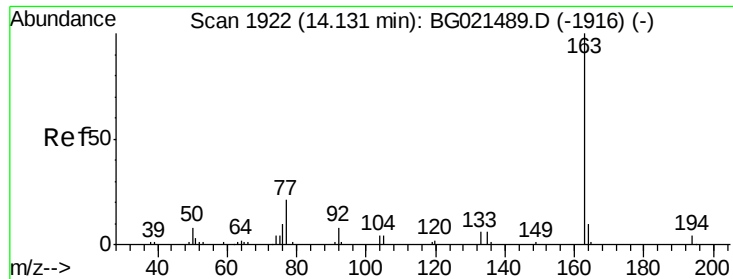
Tot Ion:142 Resp: 218
Ion Ratio Lower Upper
142 100
141 99.6 71.3 106.9



#35
1-Methylnaphthalene
Concen: 4.19 ng/ul
RT: 12.74 min Scan# 1685
Delta R.T. 0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Tgt Ion:142 Resp: 145
Ion Ratio Lower Upper
142 100
141 115.2 77.0 115.4
116 0.0 4.2 6.4#

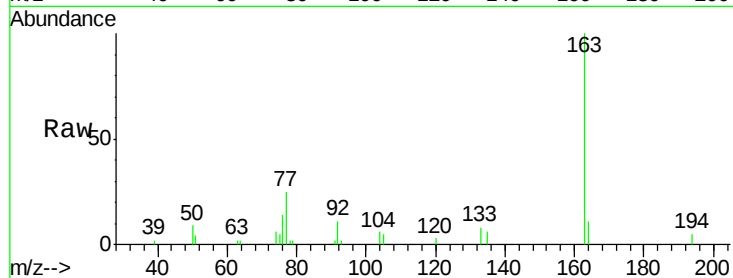




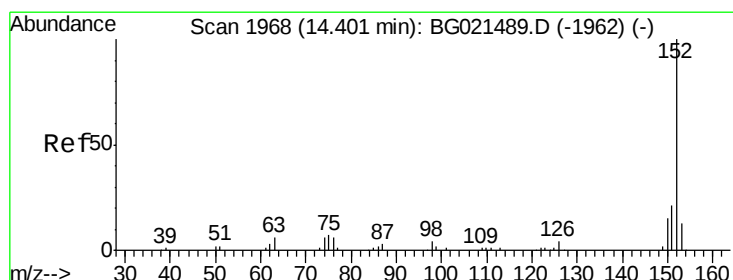
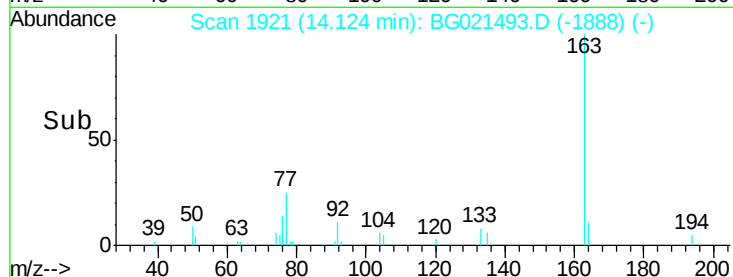
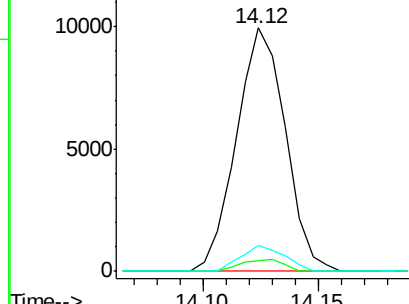
#45
Dimethylphthalate
Concen: 289.70 ng/ul
RT: 14.12 min Scan# 1921
Delta R.T. -0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Instrument :
BNA_G
ClientSampleId :
A4T45MSD

Tot Ion:163 Resp: 14738
Ion Ratio Lower Upper
163 100
194 4.6 3.9 5.9
164 10.8 8.7 13.1

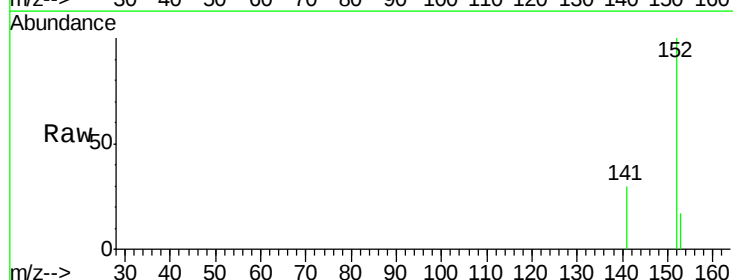


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

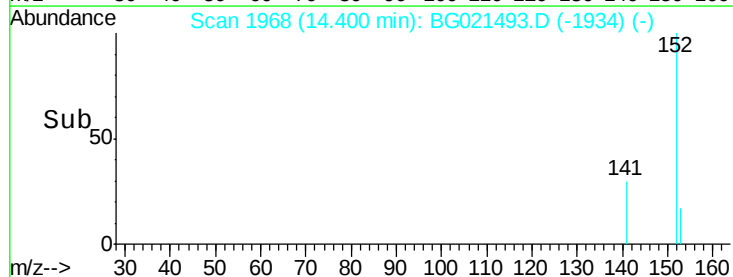
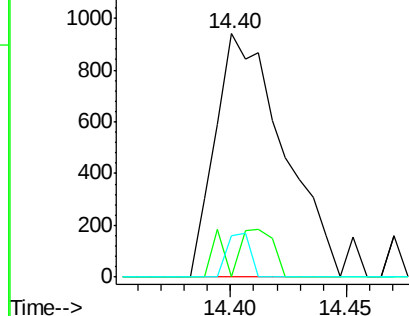


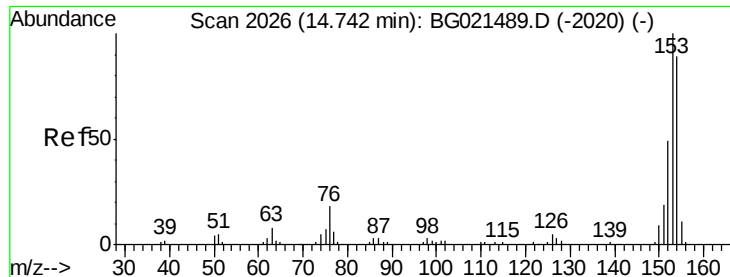
#48
Acenaphthylene
Concen: 32.14 ng/ul
RT: 14.40 min Scan# 1968
Delta R.T. -0.00 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Tgt Ion:152 Resp: 1922
Ion Ratio Lower Upper
152 100
151 0.0 17.3 25.9#
153 17.2 11.1 16.7#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 144.76 ng/ul

RT: 14.74 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Instrument :

BNA_G

ClientSampleId :

A4T45MSD

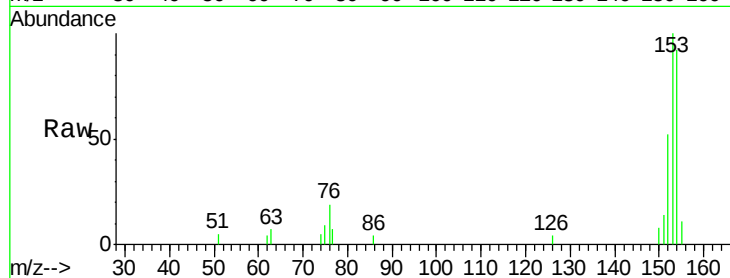
Tot Ion:153 Resp: 5970

Ion Ratio Lower Upper

153 100

152 51.7 36.5 54.7

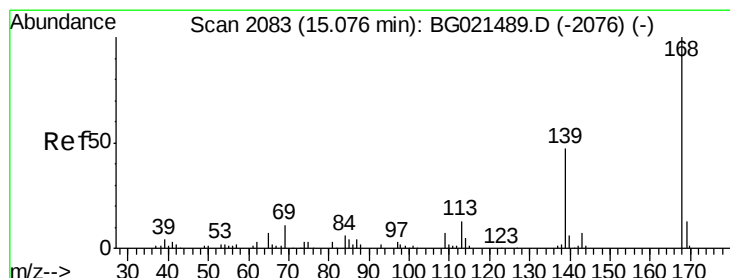
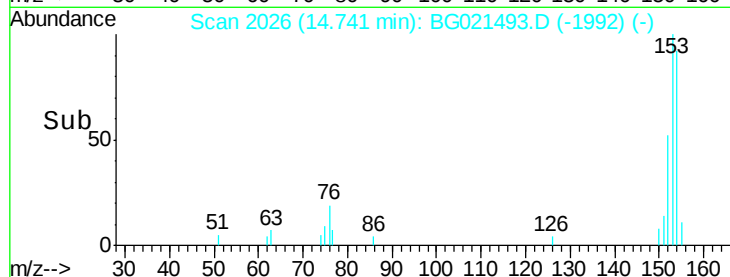
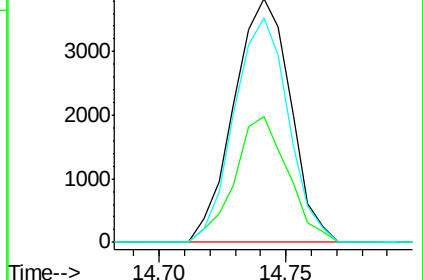
154 92.2 67.3 100.9



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: 75.84 ng/ul

RT: 15.07 min Scan# 2082

Delta R.T. -0.01 min

Lab File: BG021493.D

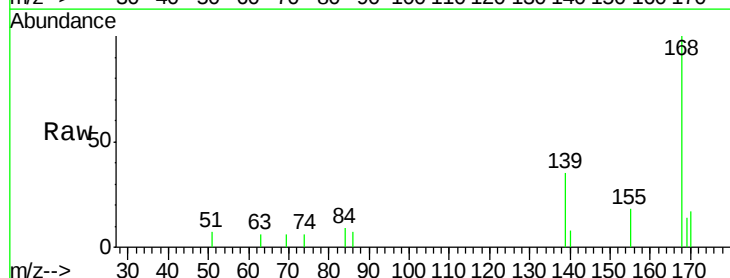
Acq: 24 Mar 2016 20:23

Tgt Ion:168 Resp: 4382

Ion Ratio Lower Upper

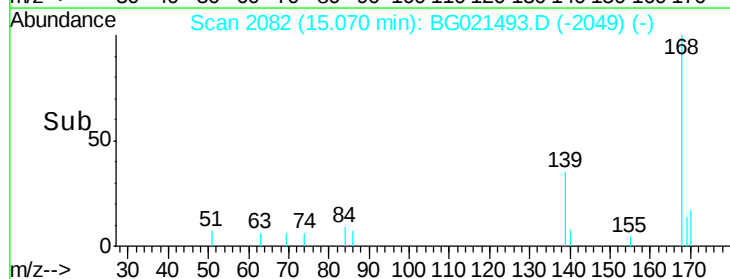
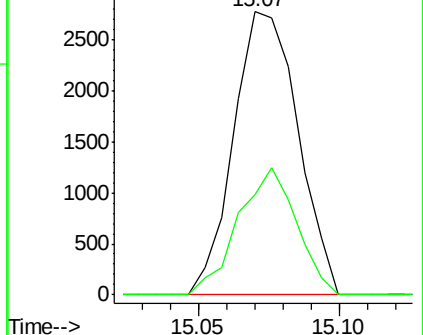
168 100

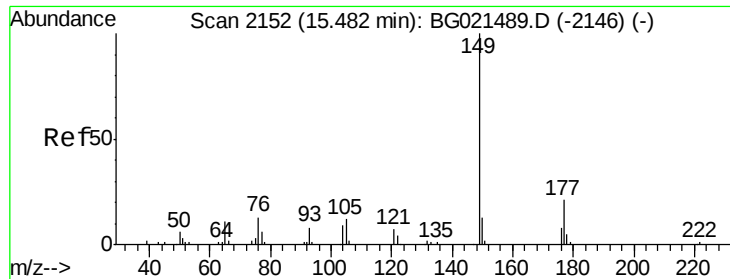
139 35.4 35.2 52.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#57

Diethylphthalate

Concen: 1.53 ng/ul

RT: 15.49 min Scan# 2153

Delta R.T. 0.01 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

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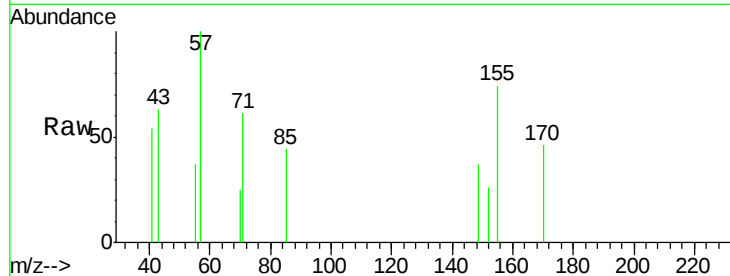
Tot Ion:149 Resp: 83

Ion Ratio Lower Upper

149 100

177 0.0 17.4 26.2#

150 0.0 10.2 15.2#



Abundance Ion 149.00 (148.70 to 149.70): E

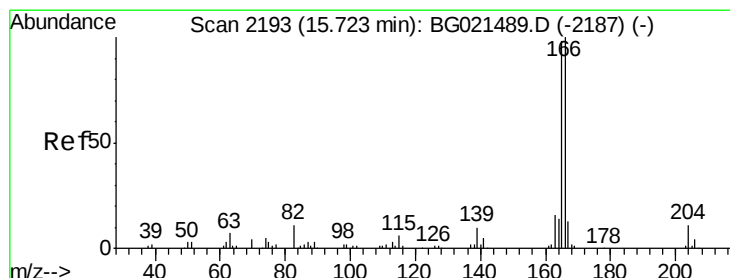
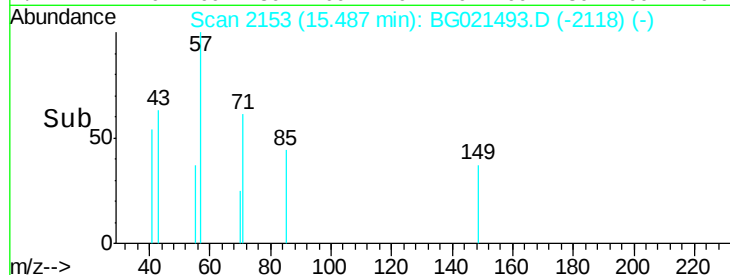
Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

Time-->

15.48

15.49



#59

Fluorene

Concen: 184.07 ng/ul

RT: 15.72 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

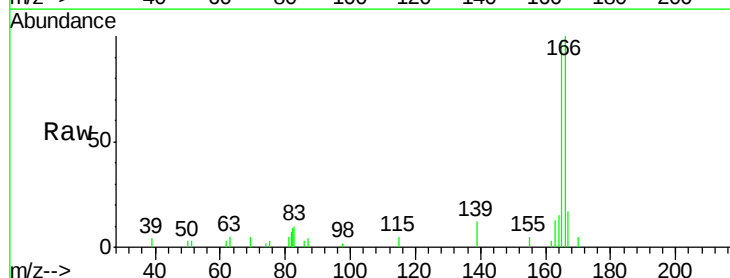
Tgt Ion:166 Resp: 9298

Ion Ratio Lower Upper

166 100

165 98.4 81.1 121.7

167 16.8 10.6 16.0#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

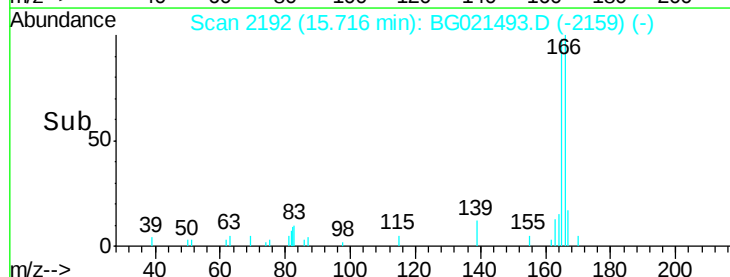
Ion 167.00 (166.70 to 167.70): E

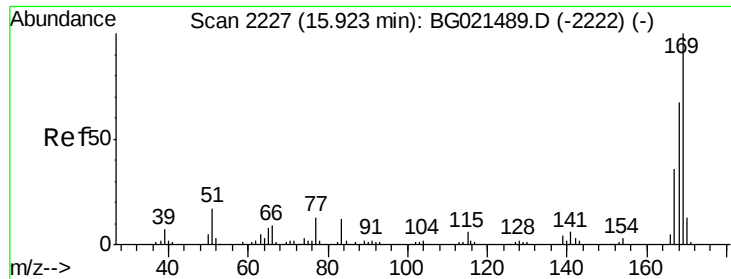
Time-->

15.70

15.72

15.75

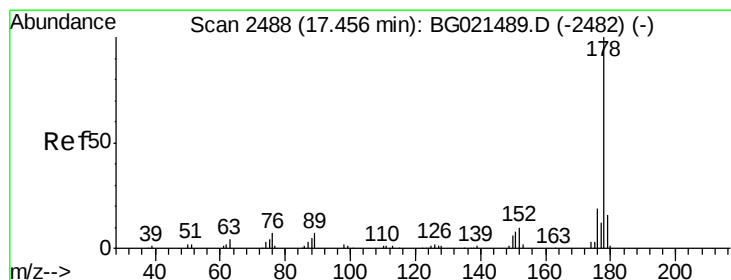
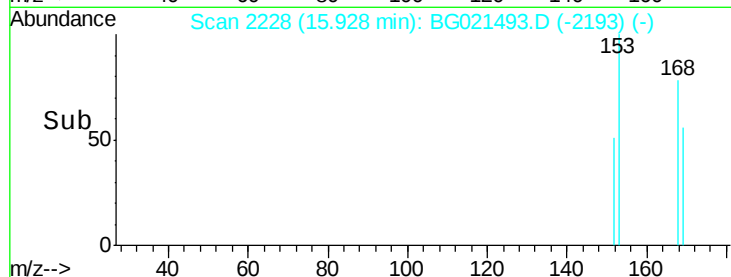
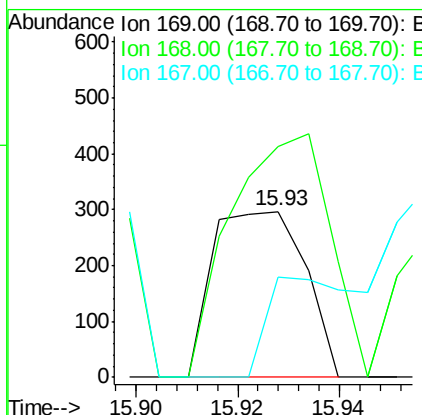
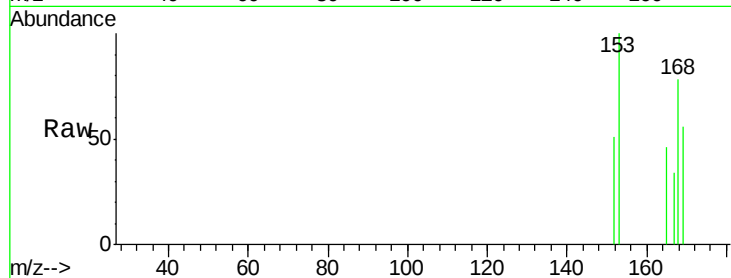




#65
 N-Nitrosodiphenylamine
 Concen: 7.22 ng/ul
 RT: 15.93 min Scan# 2228
 Delta R.T. 0.01 min
 Lab File: BG021493.D
 Acq: 24 Mar 2016 20:23

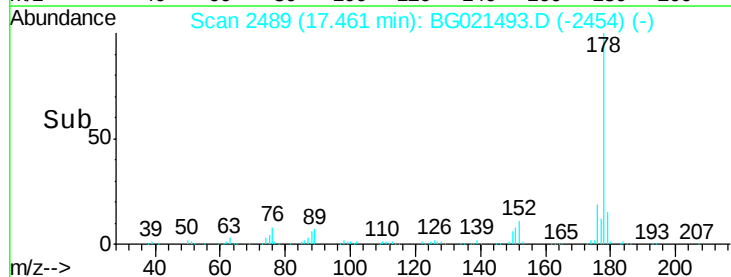
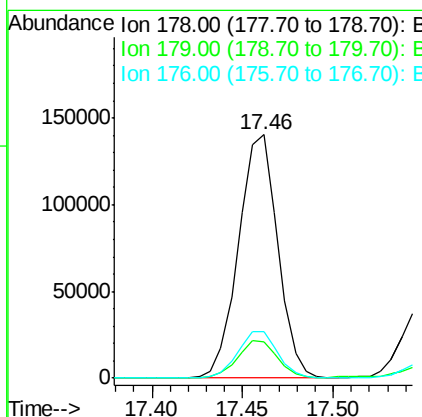
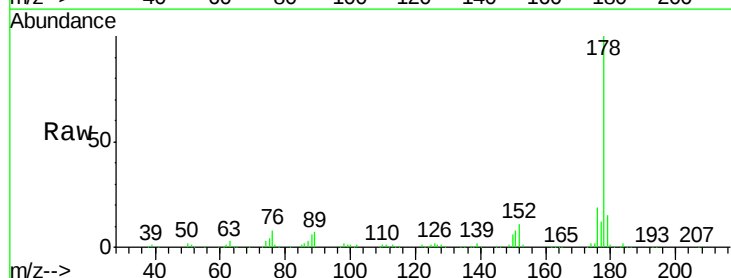
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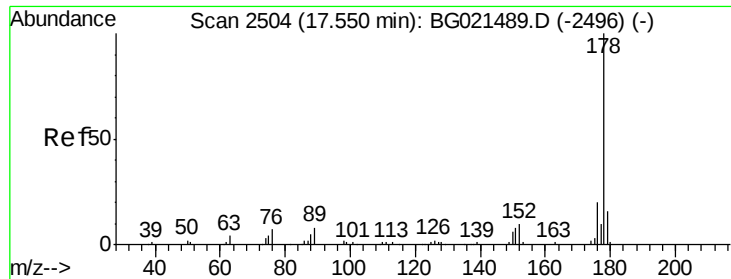
Tot Ion:169 Resp: 374
 Ion Ratio Lower Upper
 169 100
 168 138.7 51.2 76.8#
 167 60.6 28.6 43.0#



#70
 Phenanthrene
 Concen: 2230.75 ng/ul
 RT: 17.46 min Scan# 2489
 Delta R.T. 0.01 min
 Lab File: BG021493.D
 Acq: 24 Mar 2016 20:23

Tgt Ion:178 Resp: 211221
 Ion Ratio Lower Upper
 178 100
 179 14.9 11.8 17.8
 176 19.1 14.8 22.2





#72

Anthracene

Concen: 644.14 ng/ul

RT: 17.55 min Scan# 2504

Delta R.T. -0.00 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Instrument :

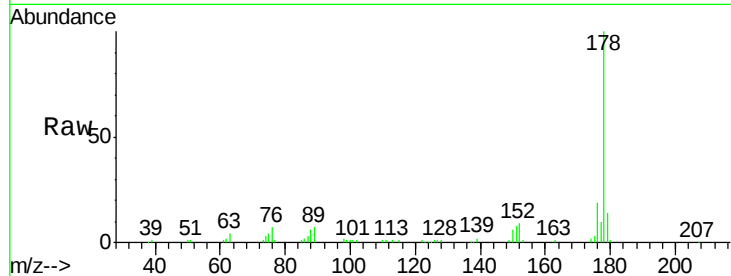
BNA_G

ClientSampleId :

A4T45MSD

Tot Ion:178 Resp: 62060

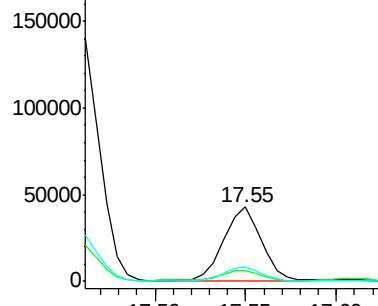
Ion	Ratio	Lower	Upper
178	100		
179	14.4	12.9	19.3
176	19.5	15.6	23.4



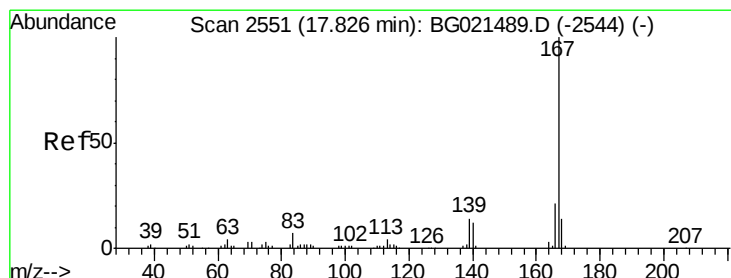
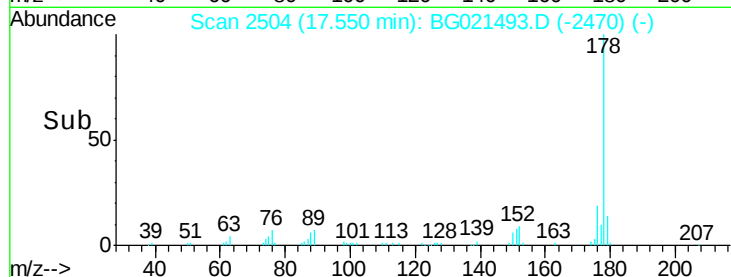
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#75

Carbazole

Concen: 81.29 ng/ul

RT: 17.83 min Scan# 2551

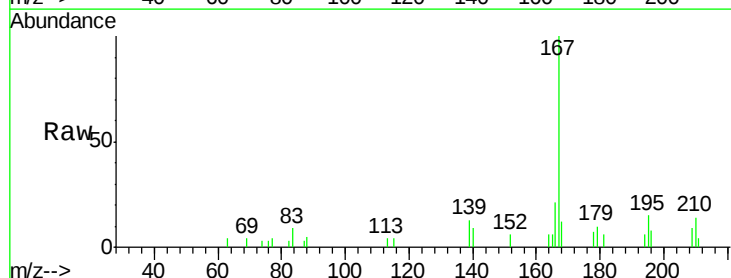
Delta R.T. -0.00 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Tgt Ion:167 Resp: 6776

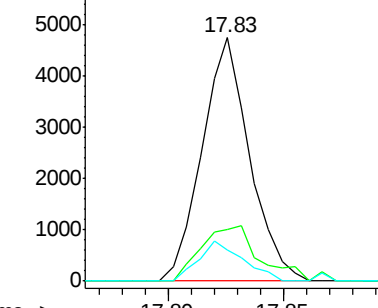
Ion	Ratio	Lower	Upper
167	100		
166	21.1	19.0	28.4
139	12.7	12.2	18.4



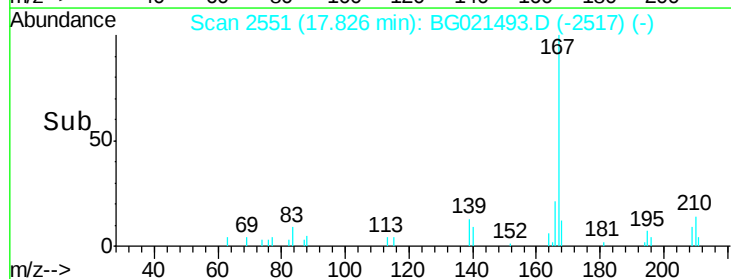
Abundance Ion 167.00 (166.70 to 167.70): E

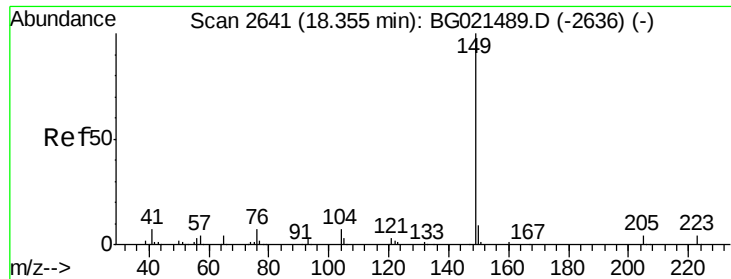
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->

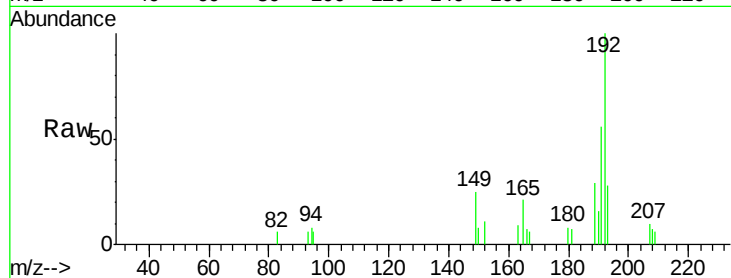




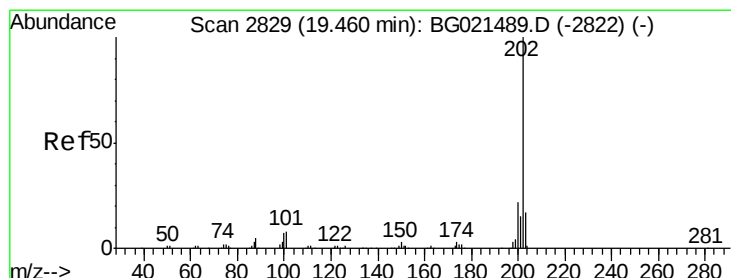
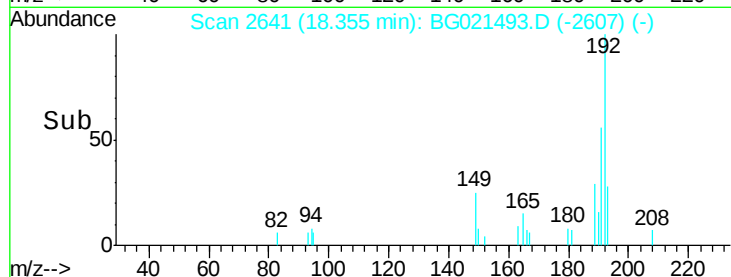
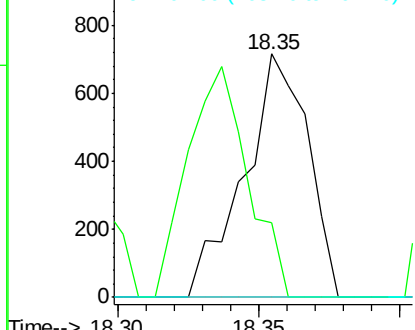
#76
Di-n-butylphthalate
Concen: 10.40 ng/ul
RT: 18.35 min Scan# 2641
Delta R.T. -0.00 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Instrument :
BNA_G
ClientSampleId :
A4T45MSD

Tot Ion:149 Resp: 1119
Ion Ratio Lower Upper
149 100
150 30.4 7.5 11.3#
104 0.0 5.4 8.2#

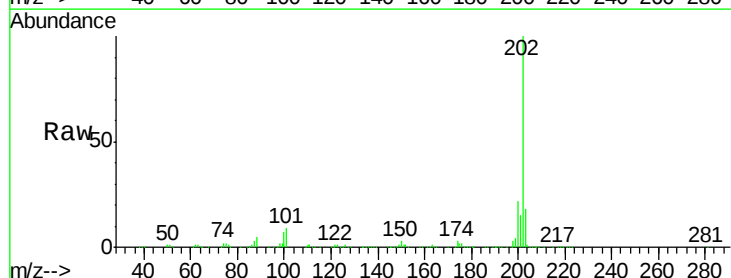


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E

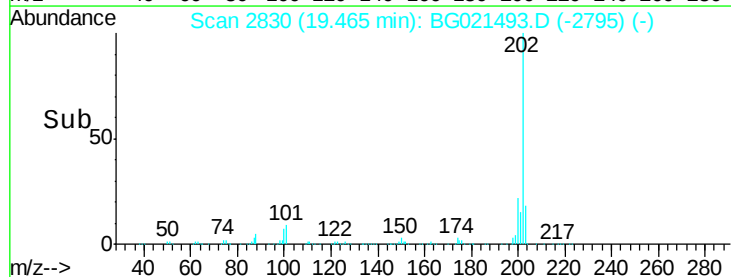
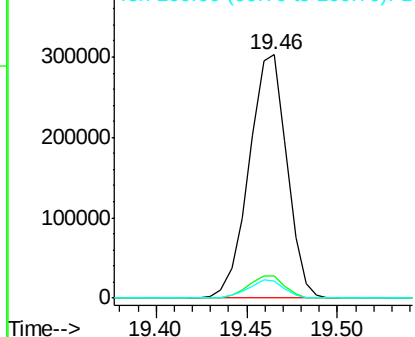


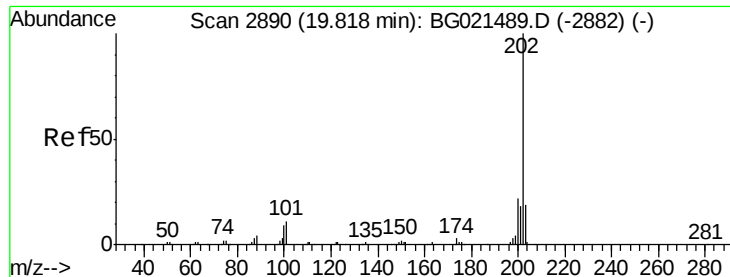
#77
Fluoranthene
Concen: 3830.19 ng/ul
RT: 19.46 min Scan# 2830
Delta R.T. 0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Tgt Ion:202 Resp: 437672
Ion Ratio Lower Upper
202 100
101 9.0 8.9 13.3
100 7.1 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

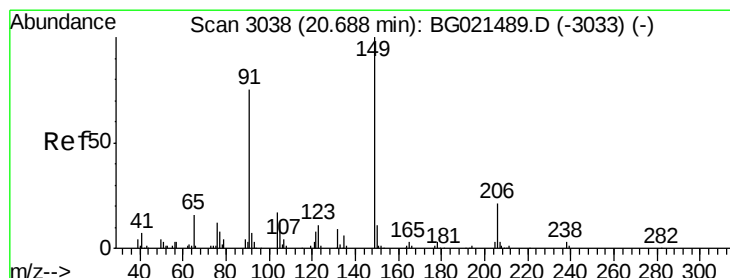
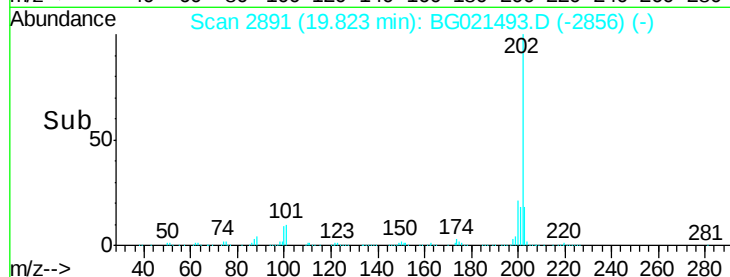
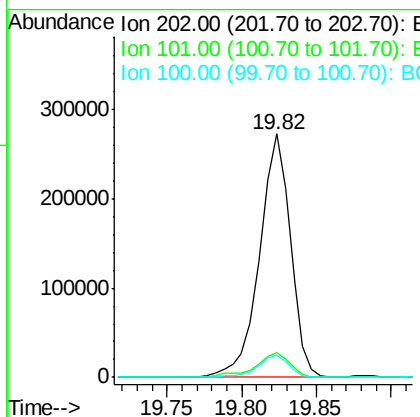
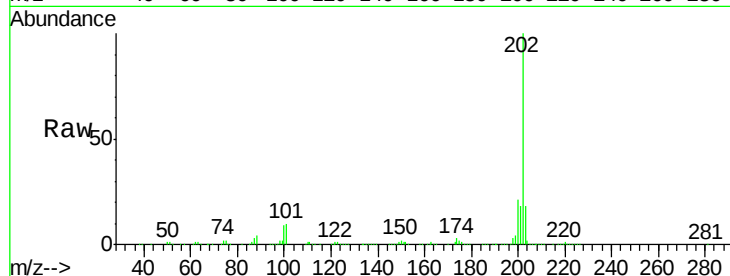




#80
Pvrene
Concen: 2839.83 ng/ul
RT: 19.82 min Scan# 2891
Delta R.T. 0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

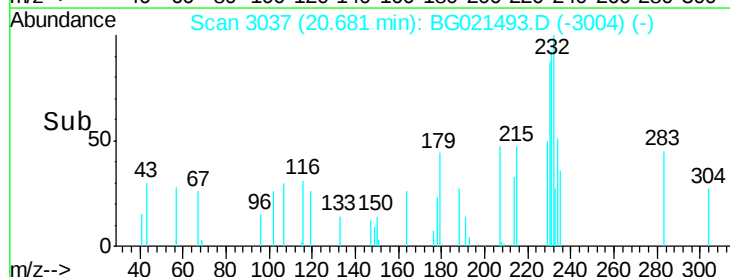
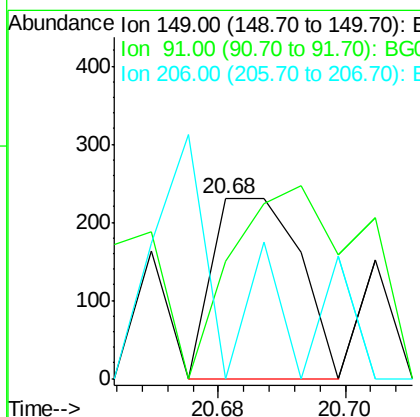
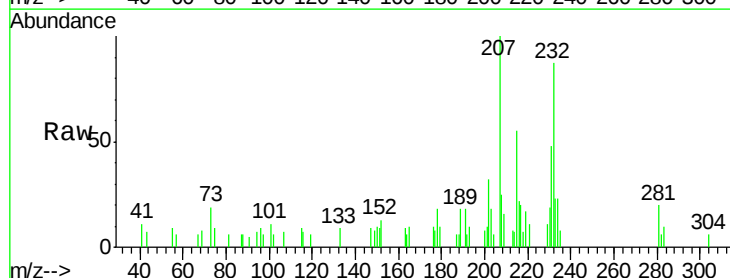
Instrument :
BNA_G
ClientSampleId :
A4T45MSD

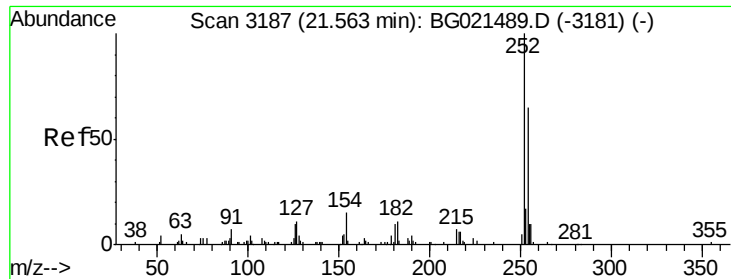
Tot Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.8	14.8
100	9.0	9.3	13.9#



#81
Butylbenzylphthalate
Concen: 3.77 ng/ul
RT: 20.68 min Scan# 3037
Delta R.T. -0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Tgt Ion	Ratio	Lower	Upper
149	100		
91	65.2	65.8	98.8#
206	0.0	15.5	23.3#





#82

3,3'-Dichlorobenzidine

Concen: 1.17 ng/ul

RT: 21.69 min Scan# 3208

Delta R.T. 0.12 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Instrument :

BNA_G

ClientSampleId :

A4T45MSD

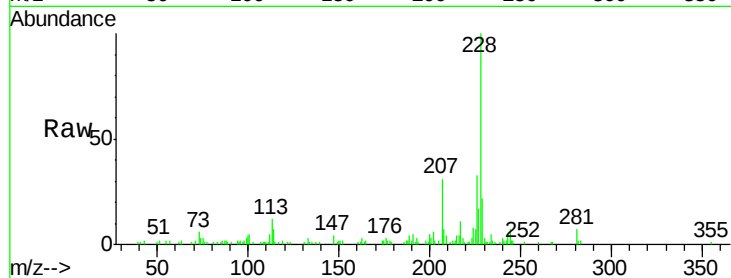
Tot Ion:252 Resp: 56

Ion Ratio Lower Upper

252 100

254 0.0 52.8 79.2#

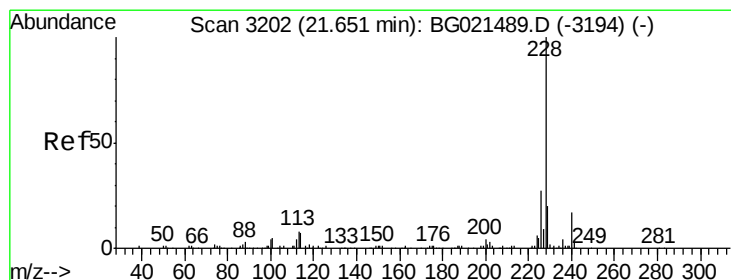
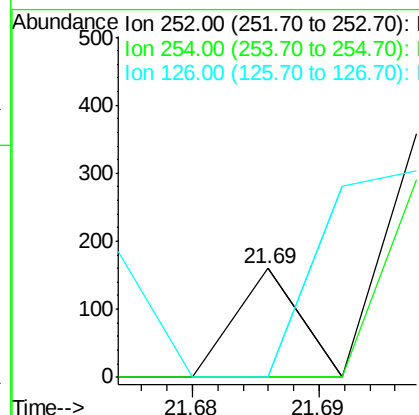
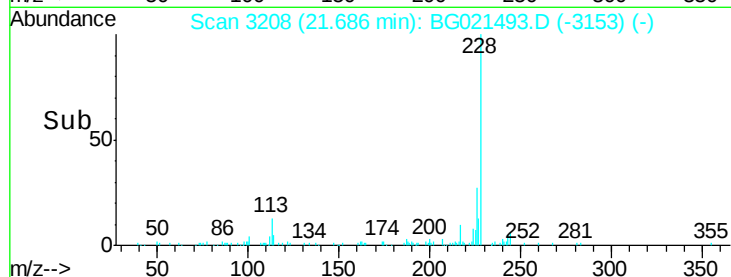
126 0.0 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#83

Benzo(a)anthracene

Concen: 1473.38 ng/ul

RT: 21.65 min Scan# 3202

Delta R.T. -0.00 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

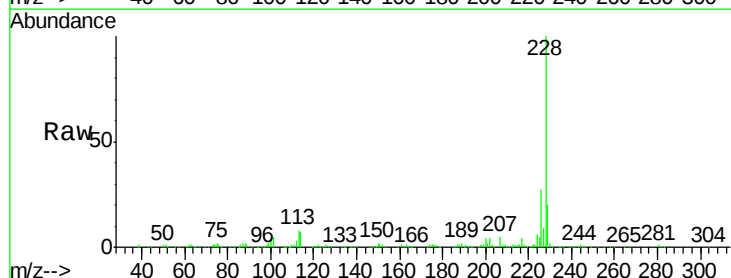
Tgt Ion:228 Resp: 205188

Ion Ratio Lower Upper

228 100

229 20.3 16.6 25.0

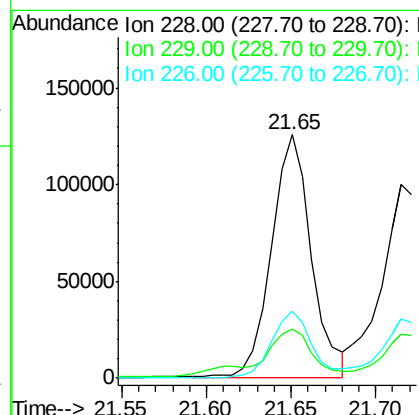
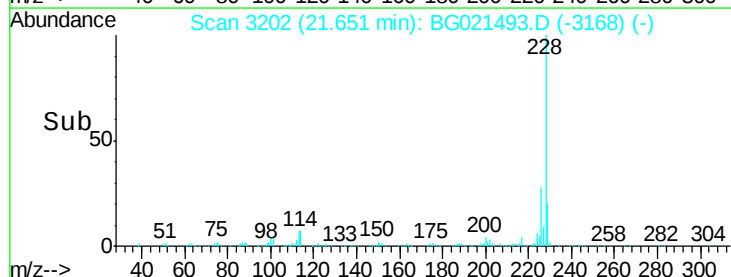
226 27.5 21.0 31.4

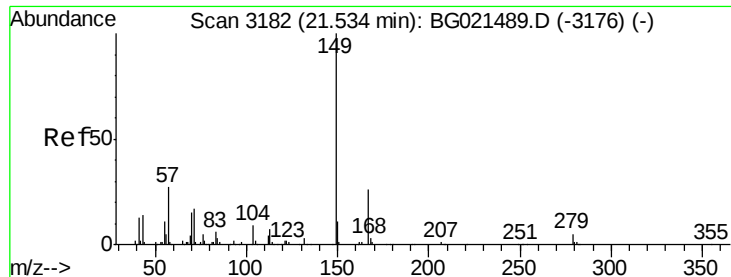


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

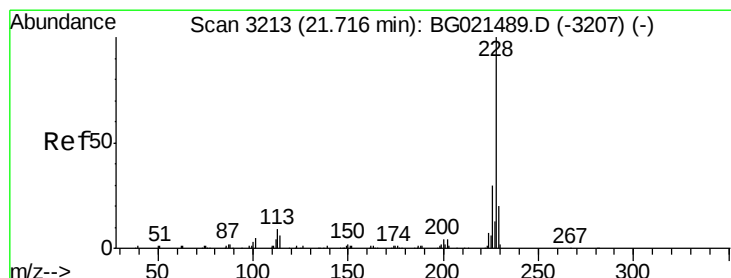
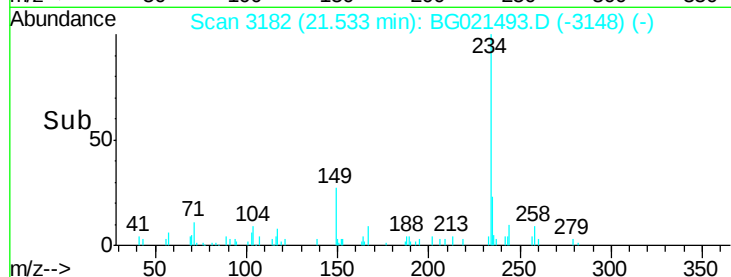
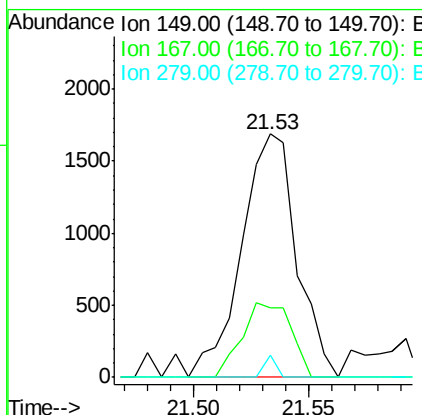
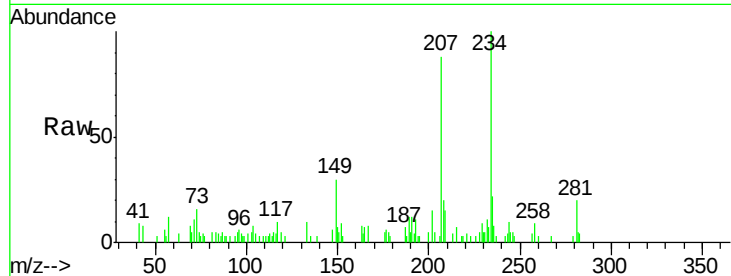




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 32.99 ng/ul
 RT: 21.53 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BG021493.D
 Acq: 24 Mar 2016 20:23

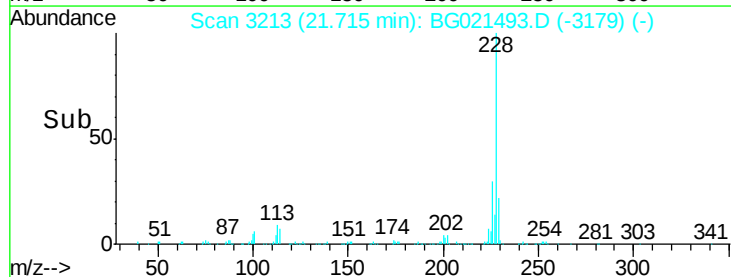
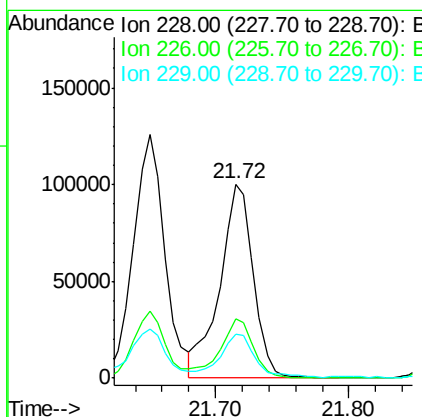
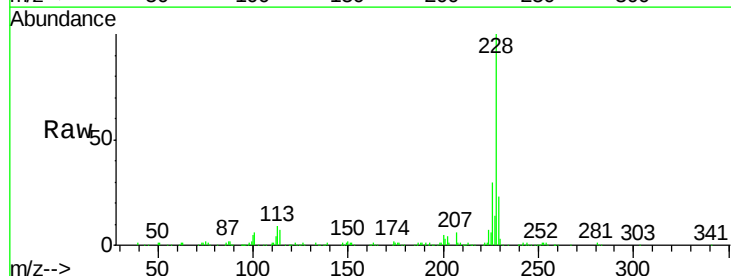
Instrument :
 BNA_G
 ClientSampleId :
 A4T45MSD

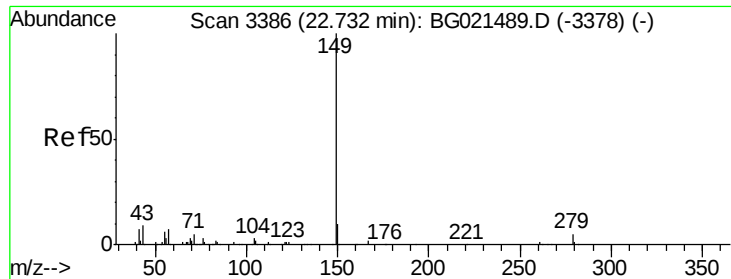
Tot Ion	Ratio	Lower	Upper
149	100		
167	28.5	20.5	30.7
279	9.1	3.7	5.5



#85
 Chrysene
 Concen: 1321.19 ng/ul
 RT: 21.72 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: BG021493.D
 Acq: 24 Mar 2016 20:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.4	35.2
229	22.8	16.2	24.2

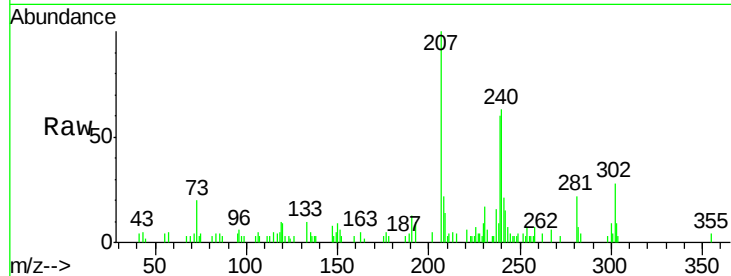




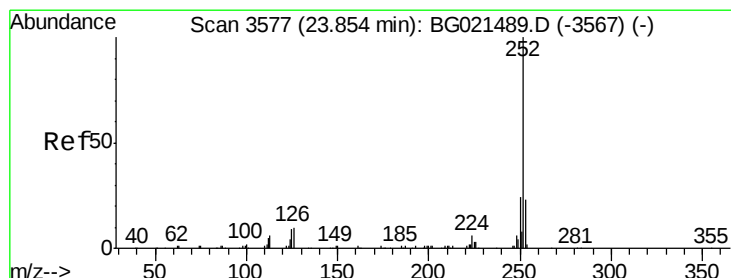
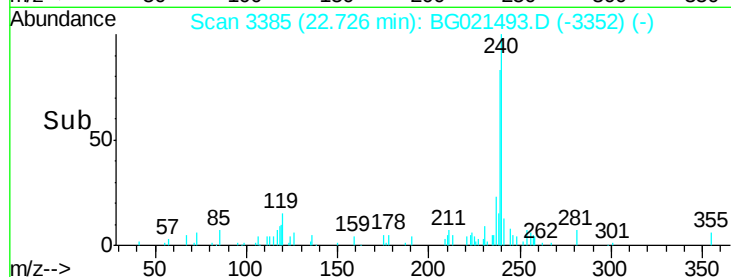
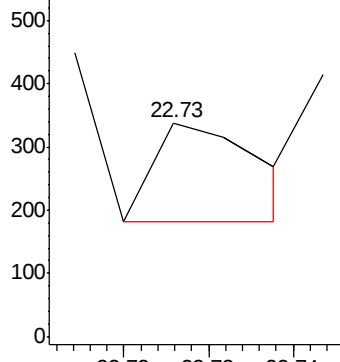
#87
Di-n-octyl phthalate
Concen: 1.47 ng/ul
RT: 22.73 min Scan# 3385
Delta R.T. -0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

Instrument :
BNA_G
ClientSampleId :
A4T45MSD

Tgt Ion:149 Resp: 133

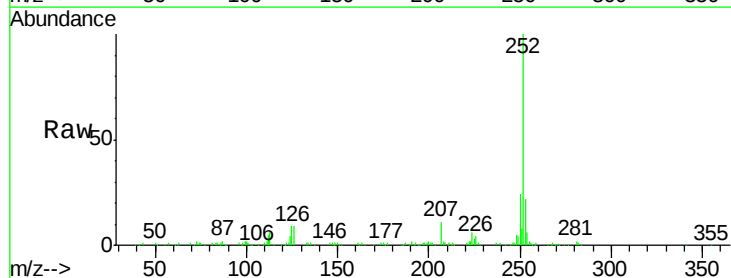


Abundance Ion 149.00 (148.70 to 149.70): E



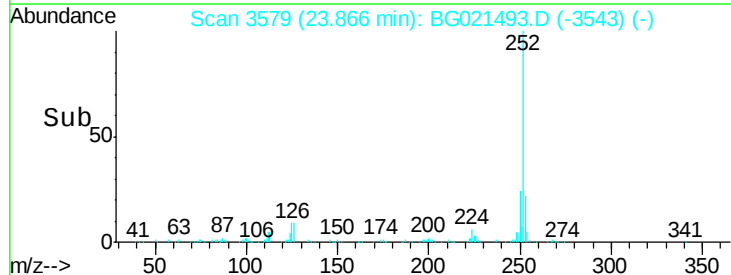
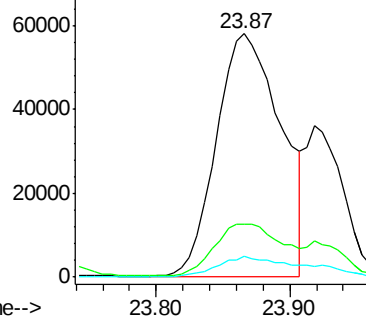
#88
Benzo(b)fluoranthene
Concen: 2261.42 ng/ul
RT: 23.87 min Scan# 3579
Delta R.T. 0.01 min
Lab File: BG021493.D
Acq: 24 Mar 2016 20:23

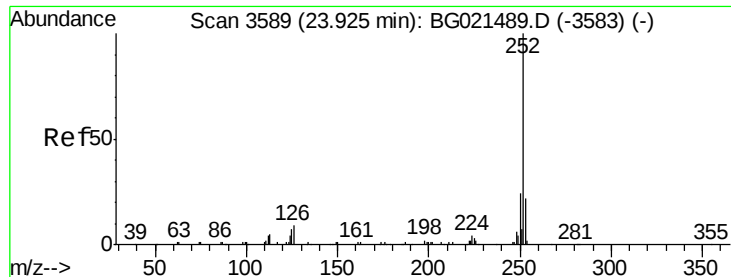
Tgt Ion:252 Resp: 194213
Ion Ratio Lower Upper
252 100
253 22.0 18.1 27.1
125 8.7 7.6 11.4



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: 2302.18 ng/ul

RT: 23.87 min Scan# 3579

Delta R.T. -0.06 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Instrument :

BNA_G

ClientSampleId :

A4T45MSD

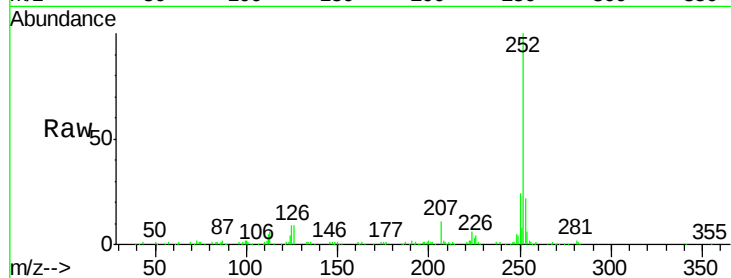
Tot Ion:252 Resp: 194213

Ion Ratio Lower Upper

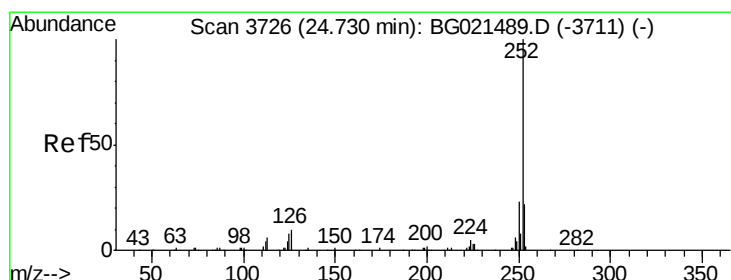
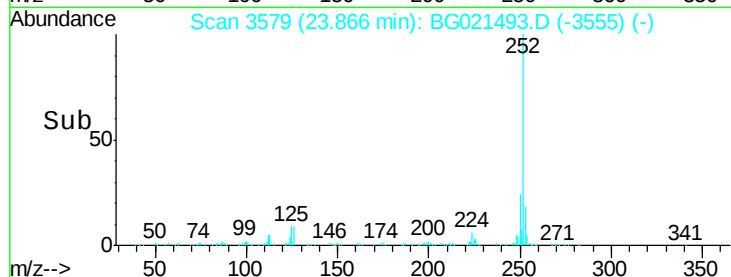
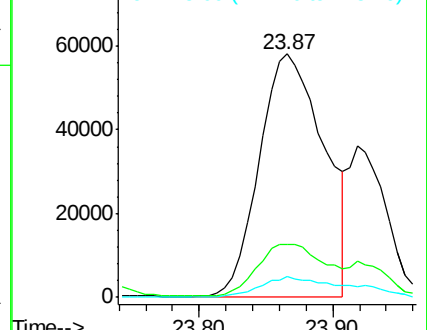
252 100

253 22.0 17.8 26.8

125 8.7 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: 1024.60 ng/ul

RT: 24.58 min Scan# 3701

Delta R.T. -0.15 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

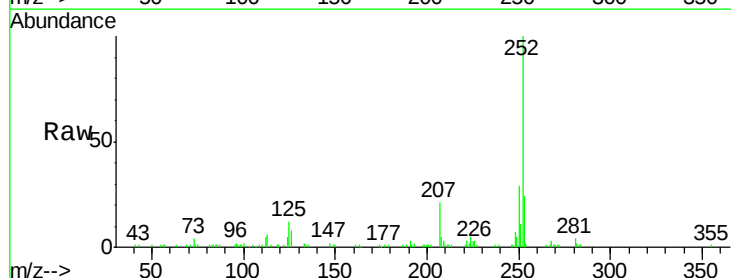
Tgt Ion:252 Resp: 85423

Ion Ratio Lower Upper

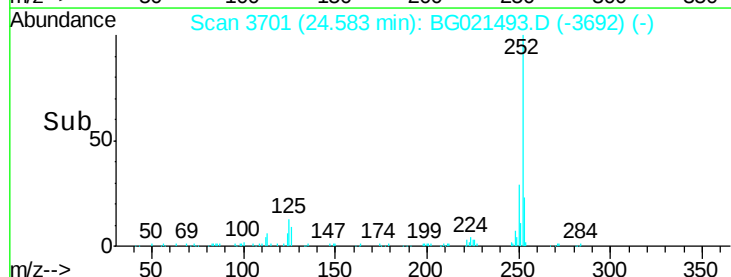
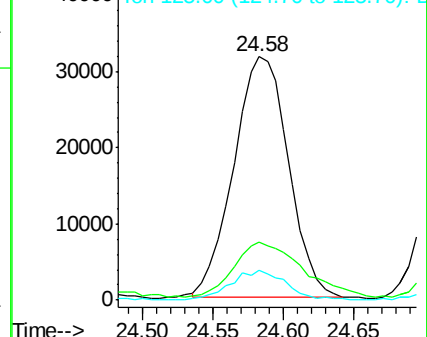
252 100

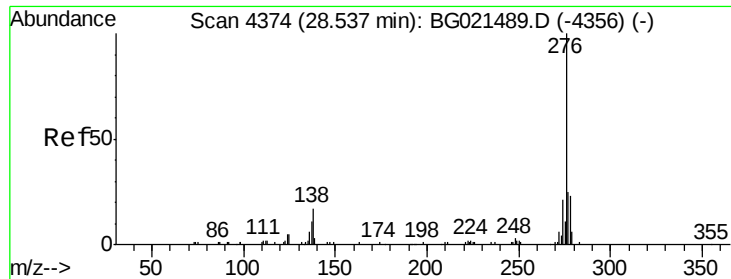
253 23.6 17.4 26.0

125 12.2 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

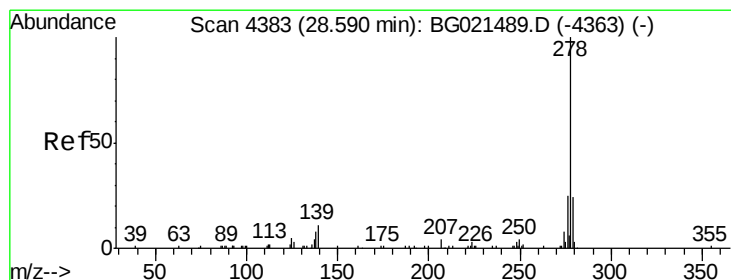
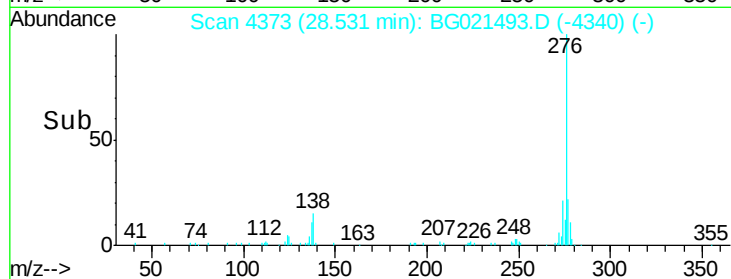
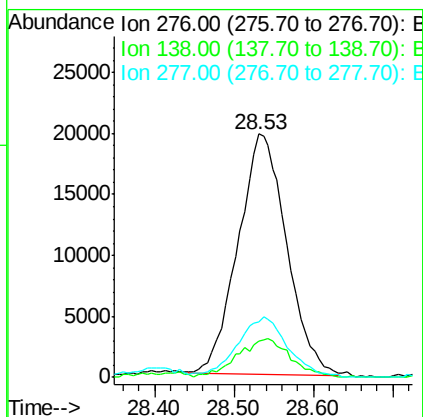
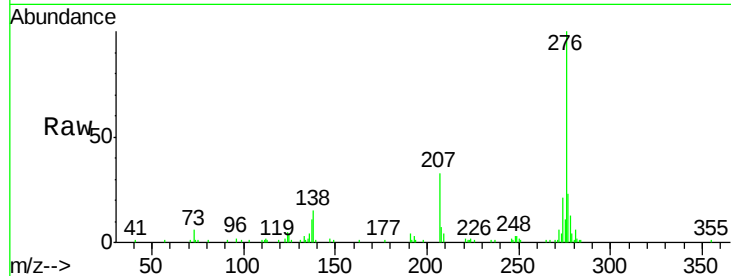




#92
 Indeno(1,2,3-cd)pyrene
 Concen: 890.52 ng/ul
 RT: 28.53 min Scan# 4373
 Delta R.T. -0.01 min
 Lab File: BG021493.D
 Acq: 24 Mar 2016 20:23

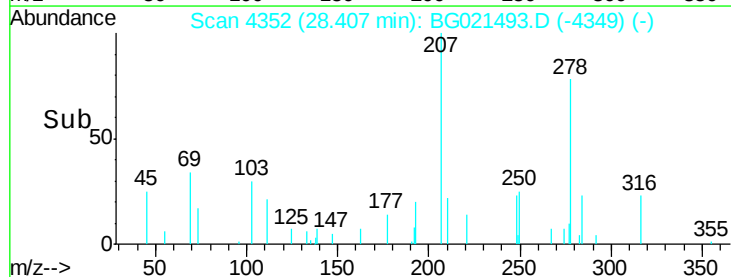
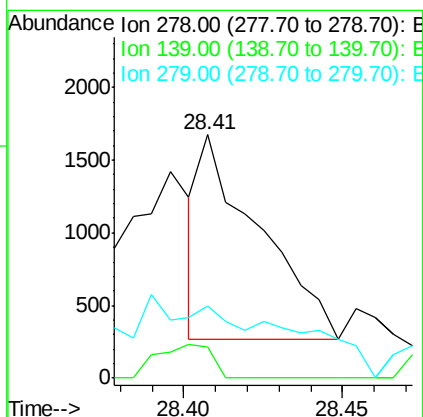
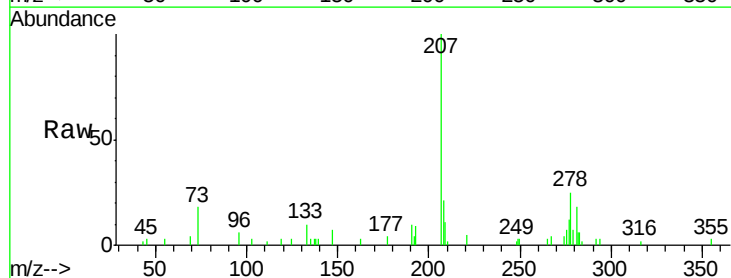
Instrument :
 BNA_G
 ClientSampleId :
 A4T45MSD

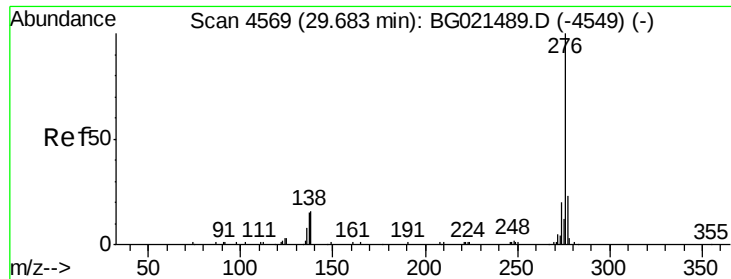
Tot Ion:276 Resp: 84378
 Ion Ratio Lower Upper
 276 100
 138 15.0 15.8 23.6#
 277 22.6 19.0 28.6



#93
 Dibenzo(a,h)anthracene
 Concen: 22.63 ng/ul
 RT: 28.41 min Scan# 4352
 Delta R.T. -0.18 min
 Lab File: BG021493.D
 Acq: 24 Mar 2016 20:23

Tgt Ion:278 Resp: 1824
 Ion Ratio Lower Upper
 278 100
 139 12.6 12.1 18.1
 279 29.4 19.8 29.8





#94

Benzo(a,h,i)perylene

Concen: 917.42 ng/ul

RT: 29.69 min Scan# 4570

Delta R.T. 0.01 min

Lab File: BG021493.D

Acq: 24 Mar 2016 20:23

Instrument :

BNA_G

ClientSampleId :

A4T45MSD

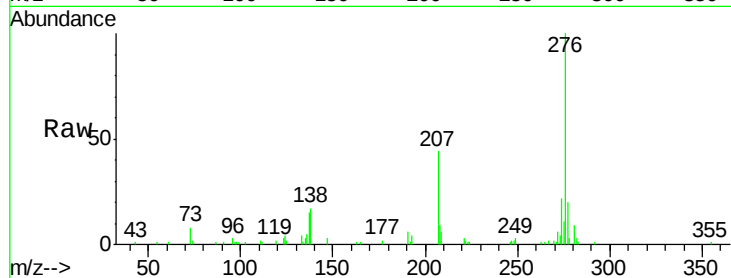
Tot Ion:276 Resp: 71482

Ion Ratio Lower Upper

276 100

138 16.7 13.9 20.9

277 19.9 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

