

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032416\
 Data File : BG021495.D
 Acq On : 24 Mar 2016 21:43
 Operator : UM/SJ
 Sample : H1909-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4T47

Quant Time: Mar 25 01:50:56 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	10.87	136	755	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.68	164	615	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.42	188	1416	20.00	ng/ul	0.00
78) Chrysene-d12	21.67	240	1610	20.00	ng/ul	0.00
86) Perylene-d12	24.88	264	1797	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	788	0.00	ng/uL	0.00
5) Phenol-d5	7.34	99	17620	0.00	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.39	67	12163	0.00	ng/ul	0.00
9) 2-Chlorophenol-d4	7.64	132	14575	0.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.84	113	15668	0.00	ng/ul	0.00
19) Nitrobenzene-d5	9.23	128	8431	1488.41	ng/ul	0.00
22) 2-Nitrophenol-d4	9.96	143	8933	1379.68	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.57	165	15929	1376.25	ng/ul	0.00
29) 4-Chloroaniline-d4	11.01	131	25526	1687.00	ng/ul	0.00
44) Dimethylphthalate-d6	14.08	166	60535	1182.13	ng/ul	0.00
47) Acenaphthylene-d8	14.37	160	73173	1159.24	ng/ul	0.00
52) 4-Nitrophenol-d4	15.09	143	5333	651.55	ng/ul	0.02
58) Fluorene-d10	15.67	176	52756	1142.66	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.79	200	8298	887.04	ng/ul	0.00
71) Anthracene-d10	17.51	188	83373	1201.51	ng/ul	0.00
79) Pyrene-d10	19.79	212	91124	1213.73	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.66	264	93004	1121.37	ng/ul	0.00

Target Compounds

						Ovalue
21) Isophorone	9.96	82	996	32.29	ng/ul#	69
28) Naphthalene	10.92	128	2196	54.86	ng/ul#	91
30) 4-Chloroaniline	10.92	127	132	8.31	ng/ul#	44
34) 2-Methylnaphthalene	12.52	142	1730	58.23	ng/ul	99
35) 1-Methylnaphthalene	12.73	142	1470	51.00	ng/ul#	93
41) 1,1'-Biphenyl	13.52	154	154	3.06	ng/ul#	40
45) Dimethylphthalate	14.13	163	16287	306.09	ng/ul	97
48) Acenaphthylene	14.40	152	399	6.38	ng/ul#	59
50) Acenaphthene	14.74	153	1154	26.75	ng/ul	89
54) Dibenzofuran	15.08	168	566	9.37	ng/ul	97
57) Diethylphthalate	15.48	149	5905	103.85	ng/ul#	94
59) Fluorene	15.72	166	1963	37.15	ng/ul	95
65) N-Nitrosodiphenylamine	15.79	169	110	2.51	ng/ul#	11
70) Phenanthrene	17.46	178	47320	590.11	ng/ul	99
72) Anthracene	17.46	178	47320	579.95	ng/ul	97
76) Di-n-butylphthalate	18.36	149	624	6.85	ng/ul#	77
77) Fluoranthene	19.46	202	28346	292.91	ng/ul#	97
80) Pyrene	19.82	202	47332	493.41	ng/ul#	94
82) 3,3'-Dichlorobenzidine	21.72	252	266	7.97	ng/ul#	54
83) Benzo(a)anthracene	21.65	228	7766	79.91	ng/ul#	93
84) Bis(2-ethylhexyl)phthalate	21.53	149	586	9.89	ng/ul#	82
85) Chrysene	21.71	228	14661	159.28	ng/ul	94
88) Benzo(b)fluoranthene	23.86	252	13601	117.83	ng/ul	95

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QLast Update : Fri Mar 25 01:20:42 2016
Response via : Initial Calibration

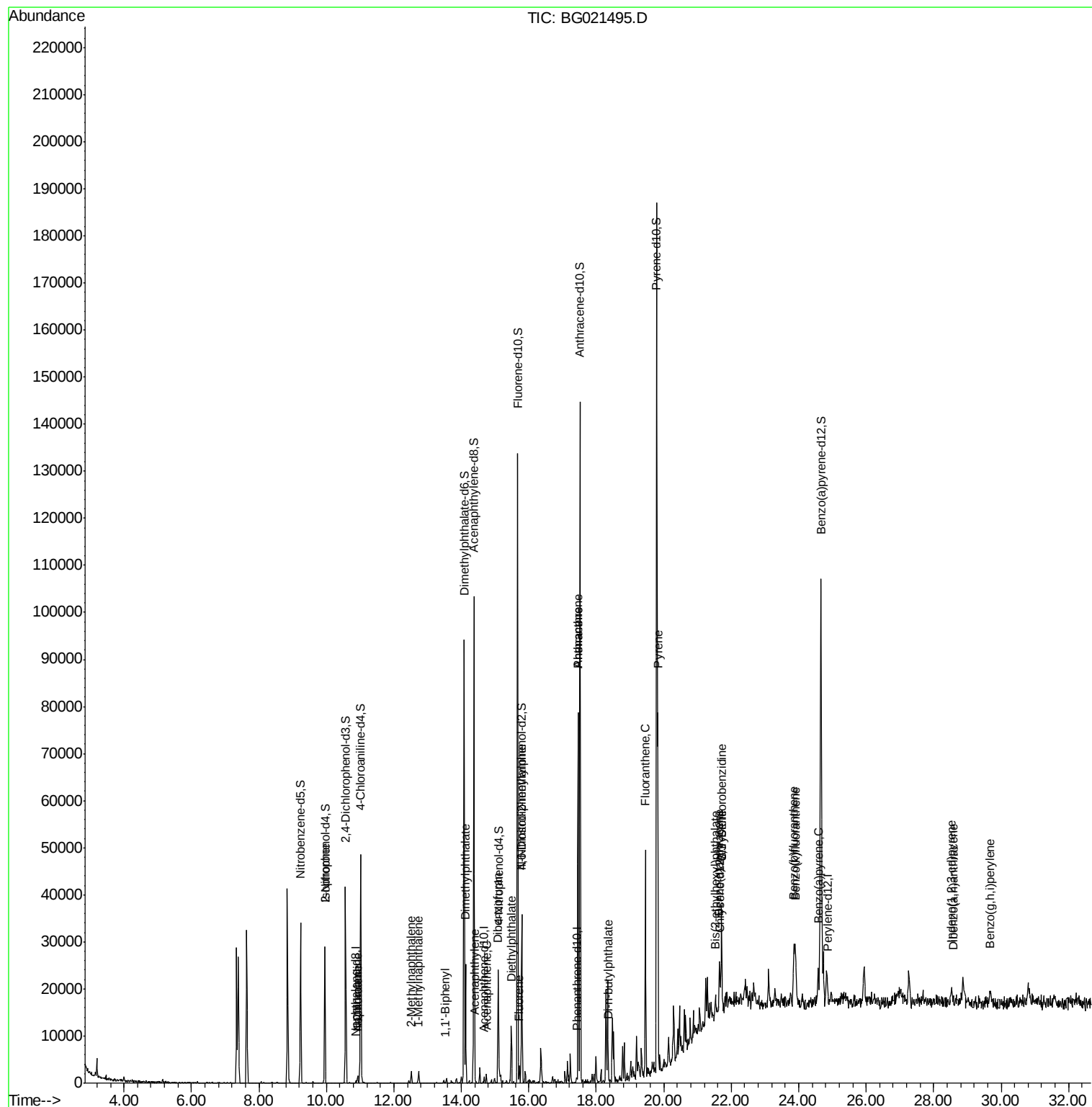
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	23.91	252	327	2.88	ng/ul	96
91) Benzo(a)pyrene	24.58	252	7852	70.07	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.53	276	327	2.57	ng/ul#	91
93) Dibenzo(a,h)anthracene	28.57	278	527	4.86	ng/ul#	55
94) Benzo(g,h,i)perylene	29.67	276	4875	46.55	ng/ul#	84

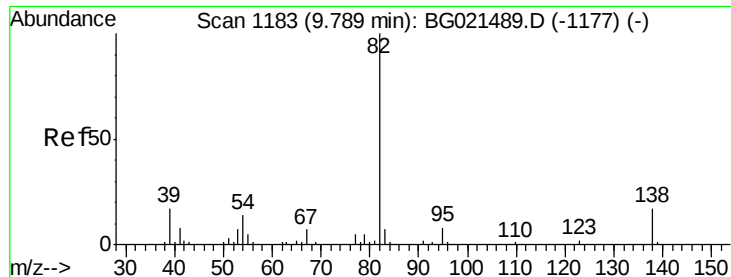
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
BNA_G
ClientSampled :
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#21

Isophorone

Concen: 32.29 ng/ul

RT: 9.96 min Scan# 1211

Delta R.T. 0.17 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampleId :

A4T47

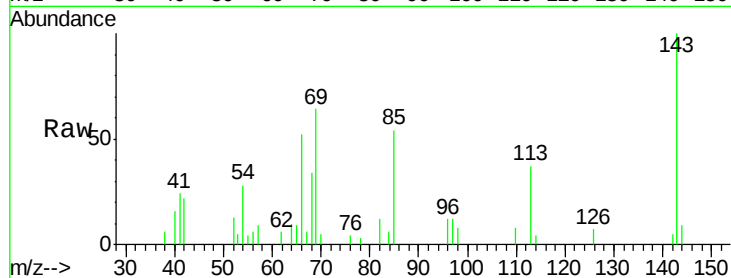
Tot Ion: 82 Resp: 996

Ion Ratio Lower Upper

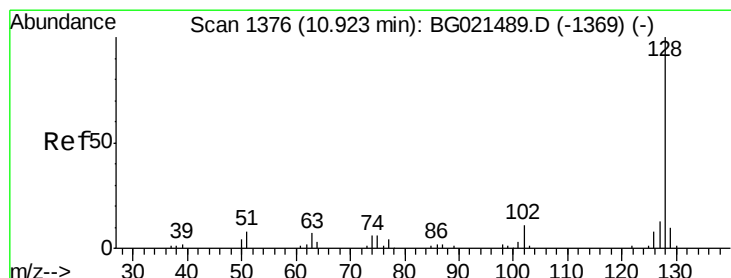
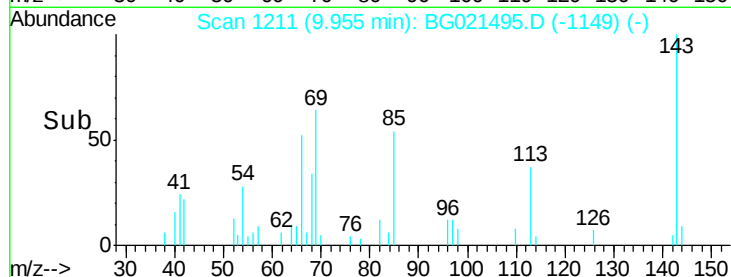
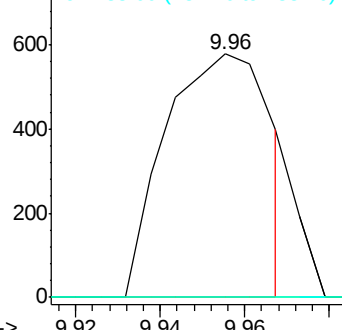
82 100

95 0.0 5.8 8.8#

138 0.0 12.2 18.2#



Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 95.00 (94.70 to 95.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



#28

Naphthalene

Concen: 54.86 ng/ul

RT: 10.92 min Scan# 1376

Delta R.T. 0.00 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

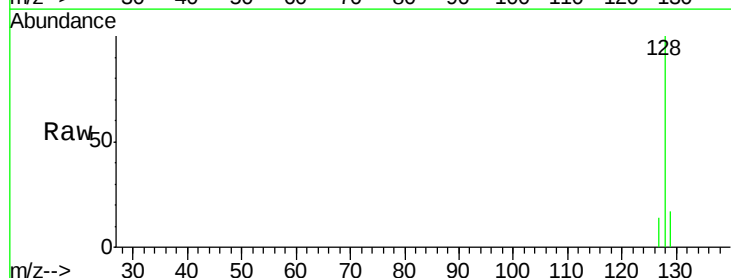
Tgt Ion: 128 Resp: 2196

Ion Ratio Lower Upper

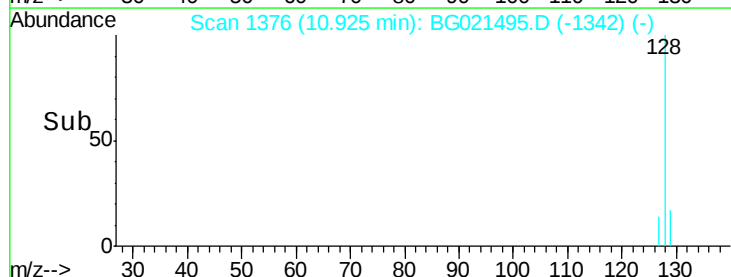
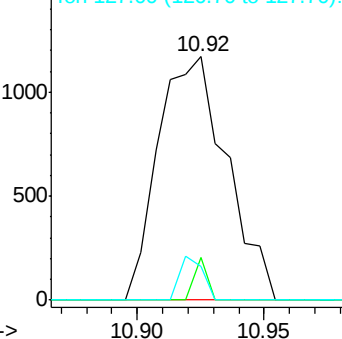
128 100

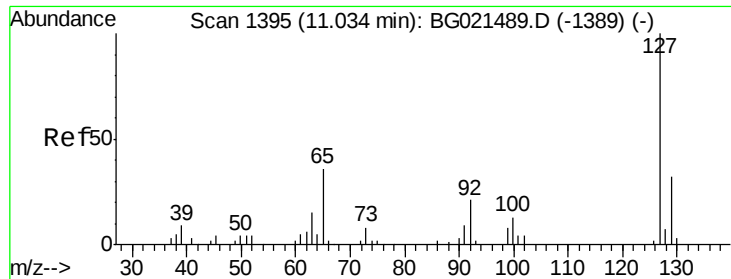
129 17.4 8.3 12.5#

127 14.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 129.00 (128.70 to 129.70): BGC
Ion 127.00 (126.70 to 127.70): BGC

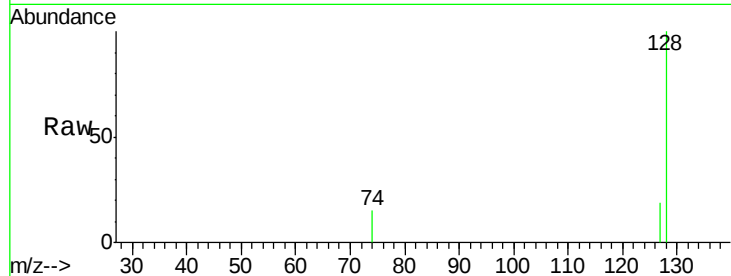




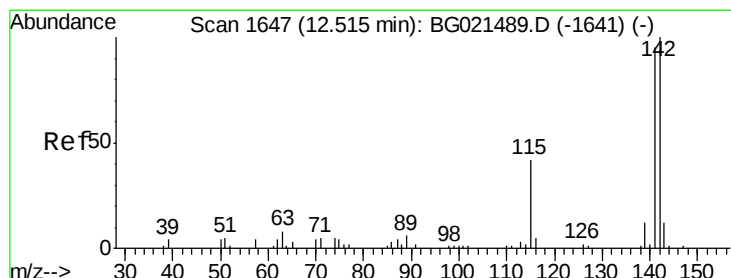
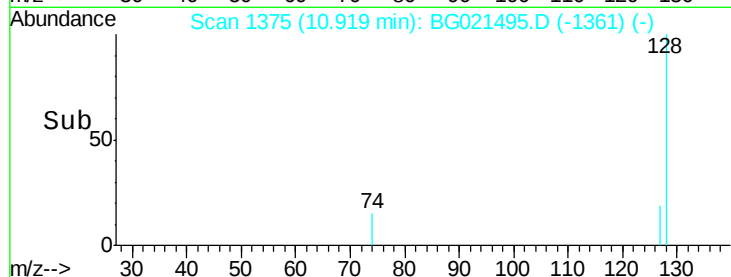
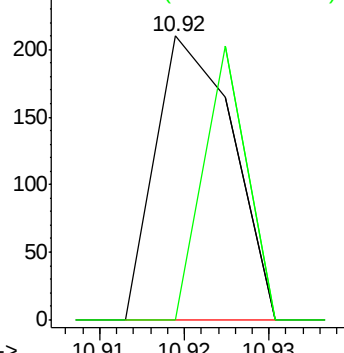
#30
4-Chloroaniline
Concen: 8.31 ng/ul
RT: 10.92 min Scan# 1375
Delta R.T. -0.12 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

Instrument :
BNA_G
ClientSampleId :
A4T47

Tot Ion:127 Resp: 132
Ion Ratio Lower Upper
127 100
129 0.0 24.8 37.2#

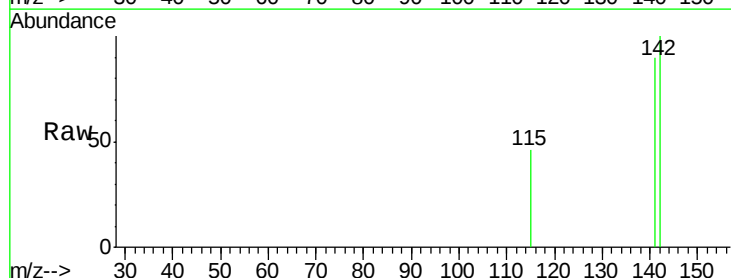


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E

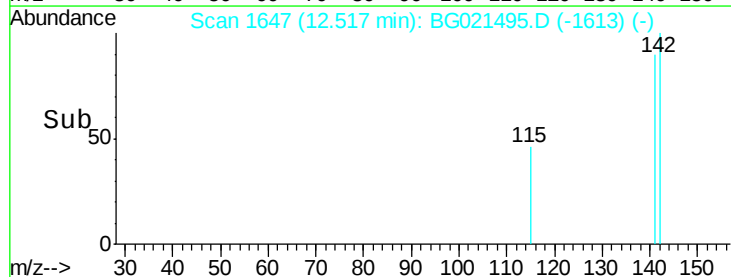
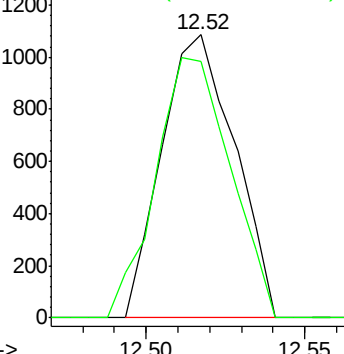


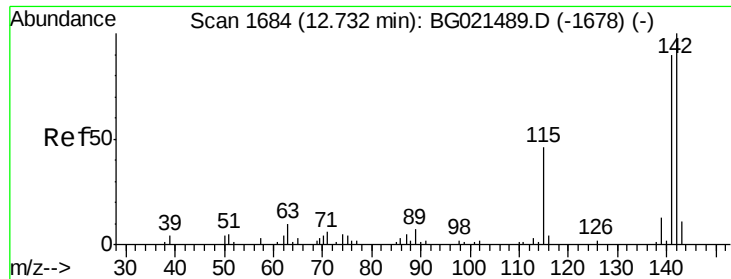
#34
2-Methylnaphthalene
Concen: 58.23 ng/ul
RT: 12.52 min Scan# 1647
Delta R.T. 0.00 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

Tgt Ion:142 Resp: 1730
Ion Ratio Lower Upper
142 100
141 90.4 71.3 106.9



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E

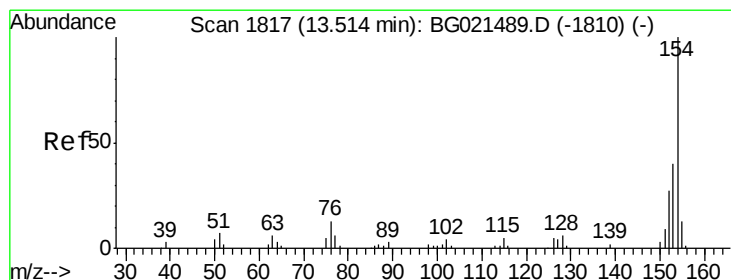
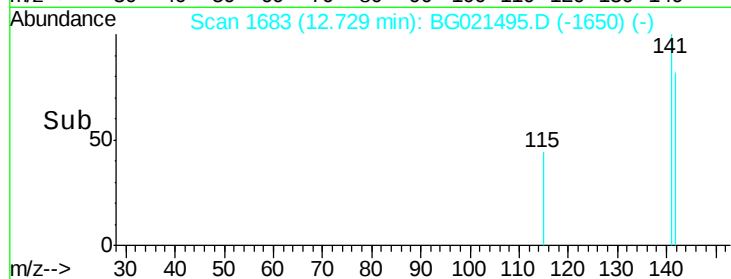
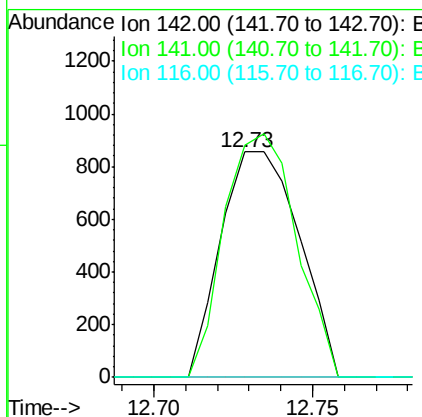
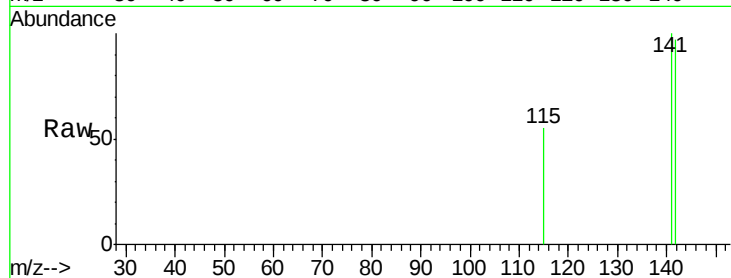




#35
 1-Methylnaphthalene
 Concen: 51.00 ng/ul
 RT: 12.73 min Scan# 1683
 Delta R.T. -0.00 min
 Lab File: BG021495.D
 Acq: 24 Mar 2016 21:43

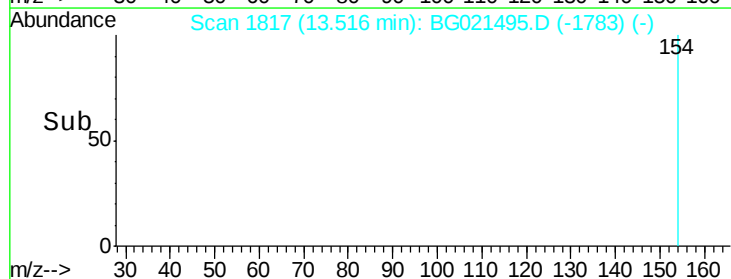
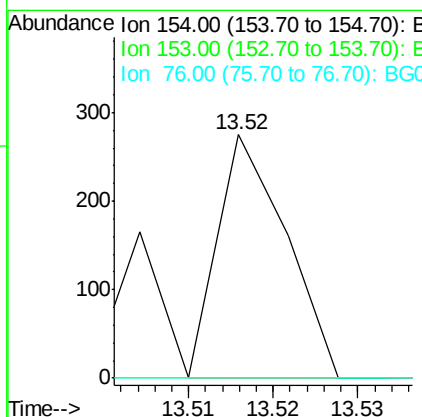
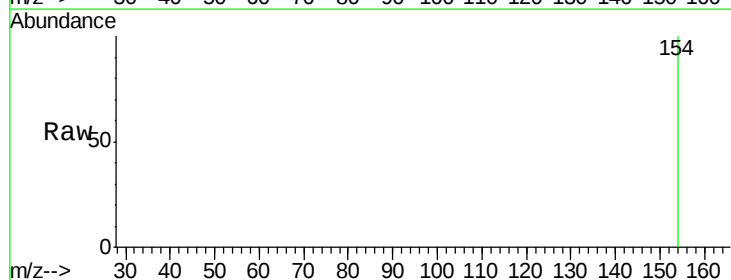
Instrument :
 BNA_G
 ClientSampleId :
 A4T47

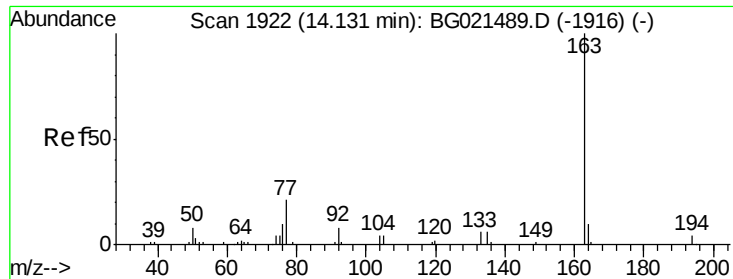
Tot Ion:142 Resp: 1470
 Ion Ratio Lower Upper
 142 100
 141 103.0 77.0 115.4
 116 0.0 4.2 6.4#



#41
 1,1'-Biphenyl
 Concen: 3.06 ng/ul
 RT: 13.52 min Scan# 1817
 Delta R.T. 0.00 min
 Lab File: BG021495.D
 Acq: 24 Mar 2016 21:43

Tgt Ion:154 Resp: 154
 Ion Ratio Lower Upper
 154 100
 153 0.0 35.4 53.2#
 76 0.0 12.1 18.1#

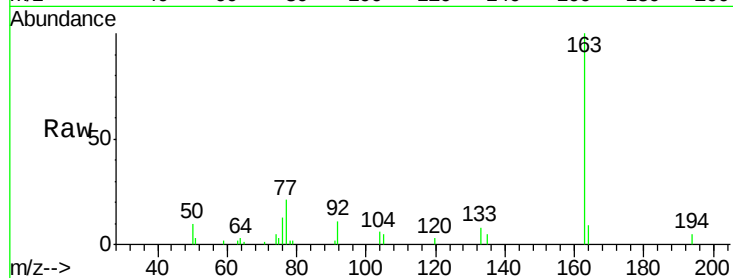




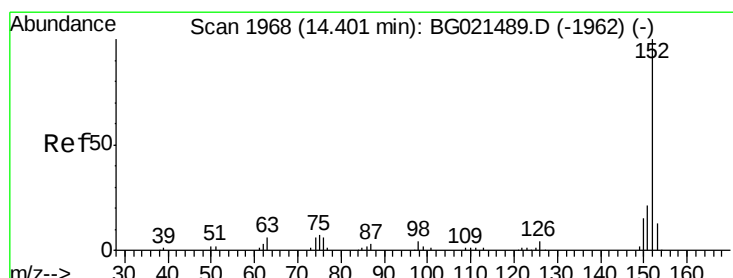
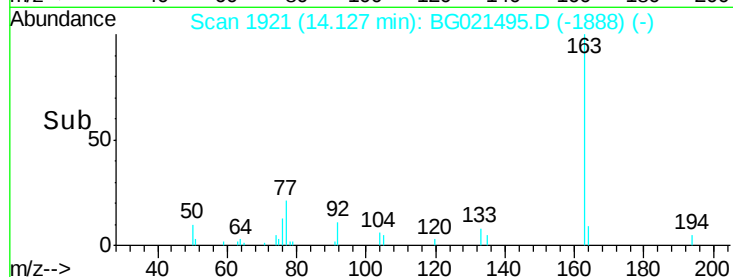
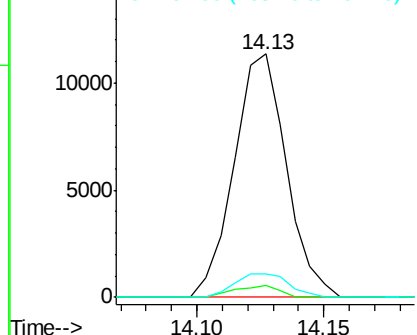
#45
Dimethylphthalate
Concen: 306.09 ng/ul
RT: 14.13 min Scan# 1921
Delta R.T. -0.00 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

Instrument :
BNA_G
ClientSampleId :
A4T47

Tot Ion:163 Resp: 16287
Ion Ratio Lower Upper
163 100
194 4.7 3.9 5.9
164 9.4 8.7 13.1

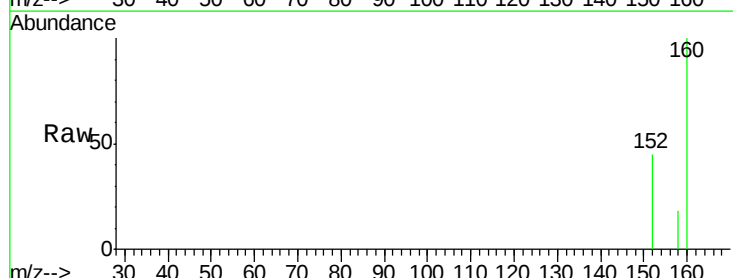


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

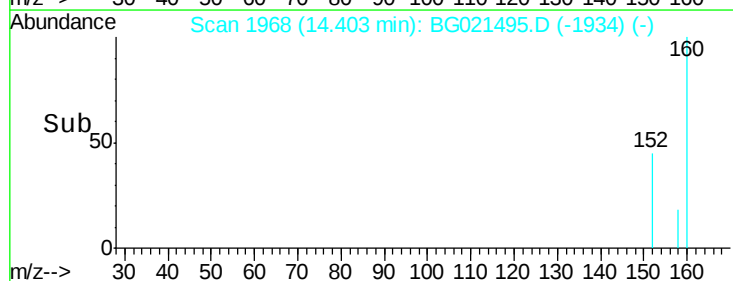
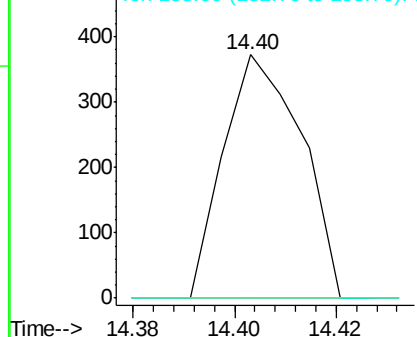


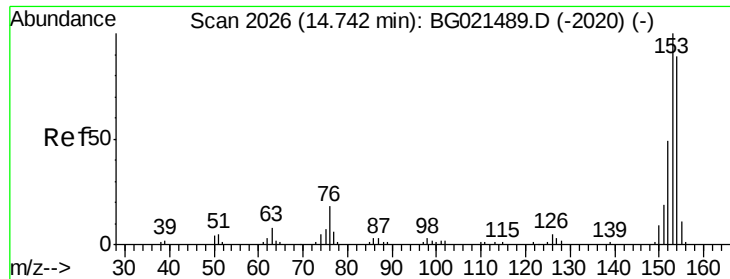
#48
Acenaphthylene
Concen: 6.38 ng/ul
RT: 14.40 min Scan# 1968
Delta R.T. 0.00 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

Tgt Ion:152 Resp: 399
Ion Ratio Lower Upper
152 100
151 0.0 17.3 25.9#
153 0.0 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: 26.75 ng/ul

RT: 14.74 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampleId :

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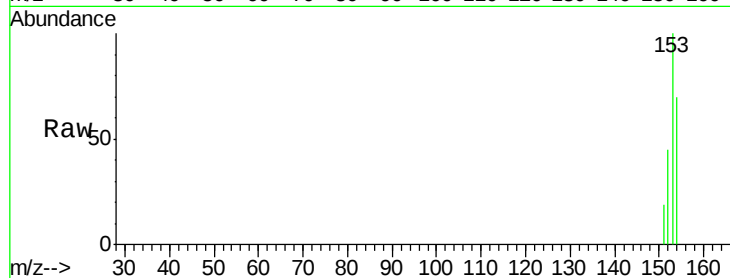
Tot Ion:153 Resp: 1154

Ion Ratio Lower Upper

153 100

152 44.5 36.5 54.7

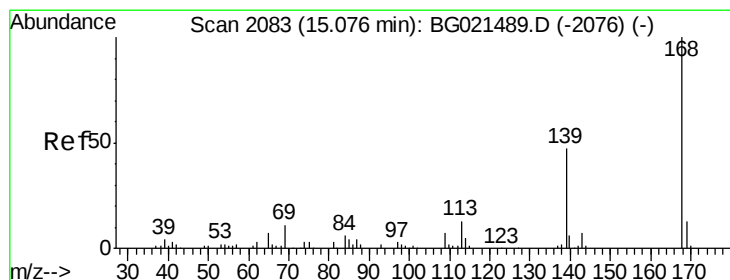
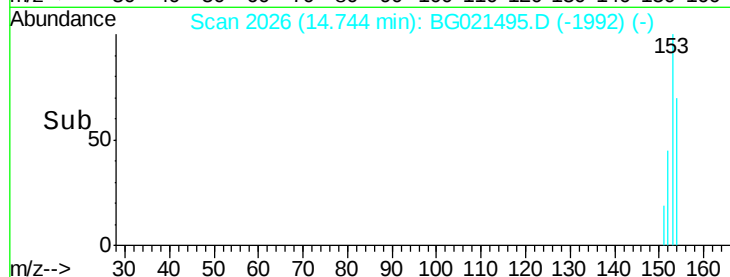
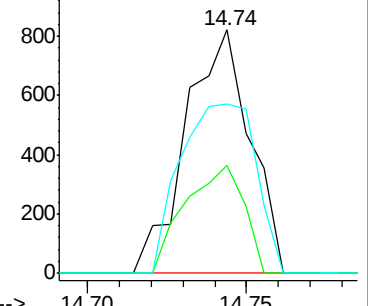
154 69.6 67.3 100.9



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: 9.37 ng/ul

RT: 15.08 min Scan# 2083

Delta R.T. 0.00 min

Lab File: BG021495.D

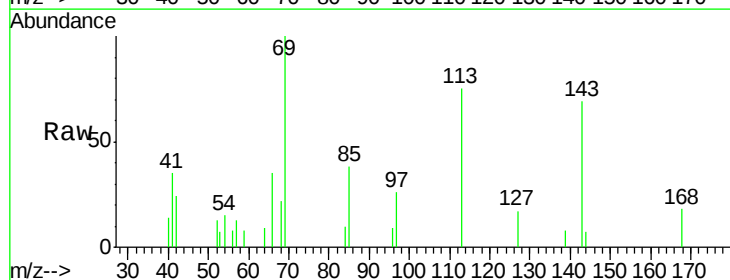
Acq: 24 Mar 2016 21:43

Tgt Ion:168 Resp: 566

Ion Ratio Lower Upper

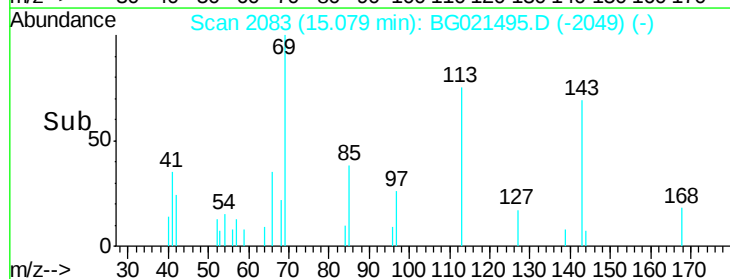
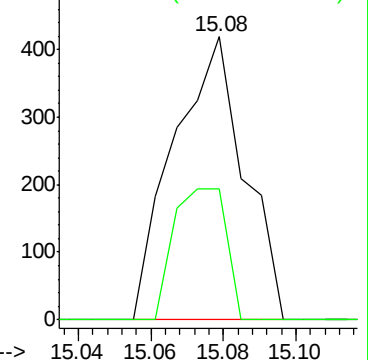
168 100

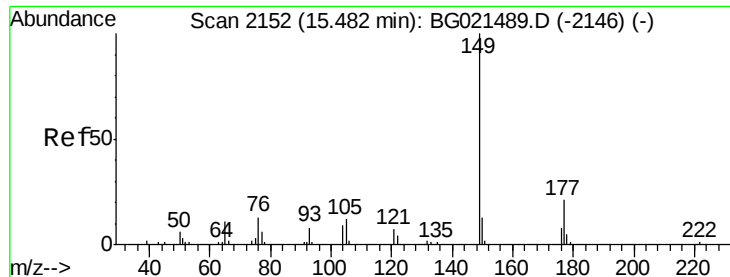
139 46.1 35.2 52.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

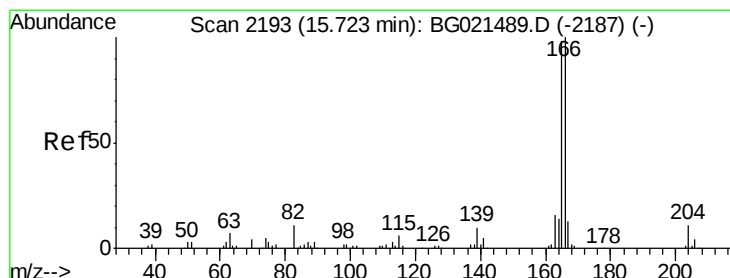
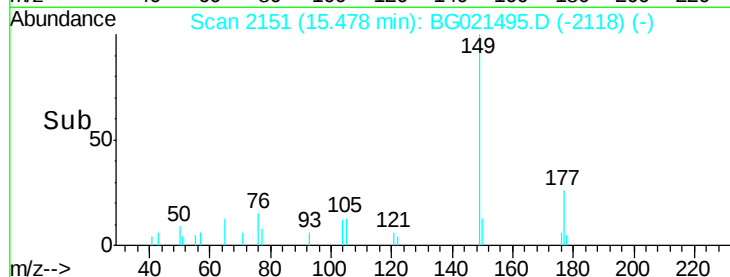
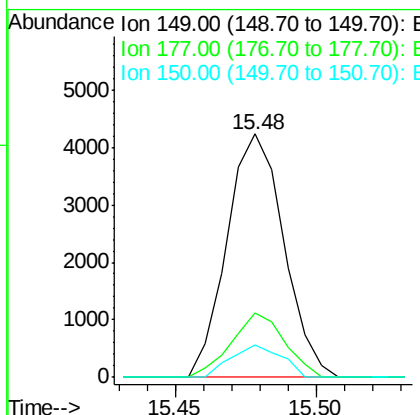
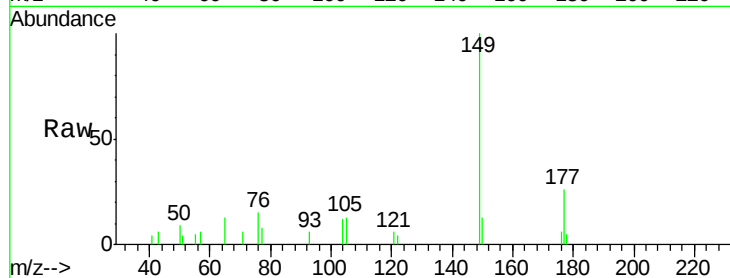




#57
Diethylphthalate
Concen: 103.85 ng/ul
RT: 15.48 min Scan# 2151
Delta R.T. -0.00 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

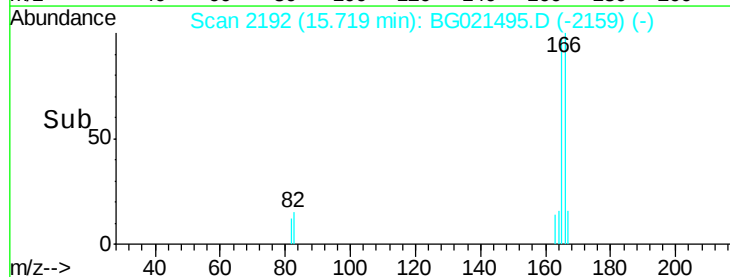
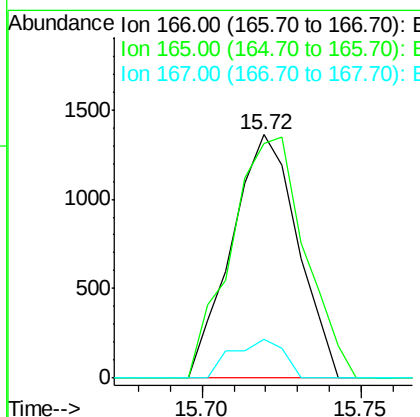
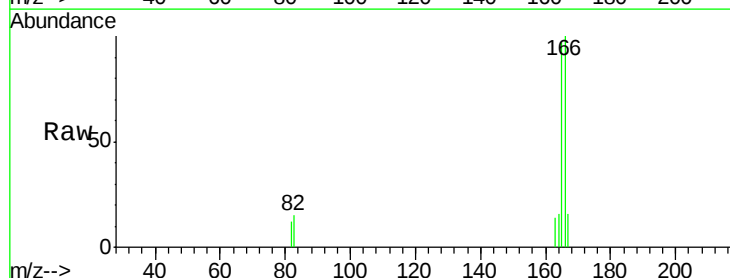
Instrument :
BNA_G
ClientSampled :
A4T47

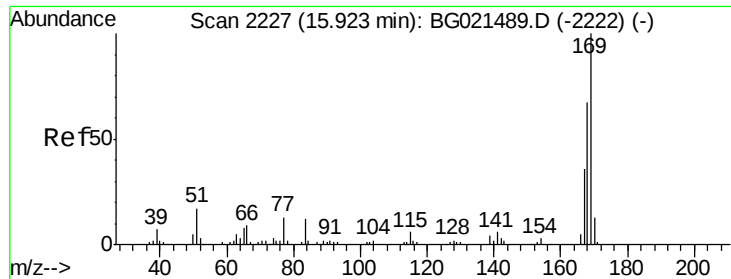
Tot Ion:149 Resp: 5905
Ion Ratio Lower Upper
149 100
177 26.3 17.4 26.2#
150 13.2 10.2 15.2



#59
Fluorene
Concen: 37.15 ng/ul
RT: 15.72 min Scan# 2192
Delta R.T. -0.00 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

Tgt Ion:166 Resp: 1963
Ion Ratio Lower Upper
166 100
165 96.5 81.1 121.7
167 15.9 10.6 16.0





#65

N-Nitrosodiphenylamine

Concen: 2.51 ng/ul

RT: 15.79 min Scan# 2204

Delta R.T. -0.13 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampleId :

A4T47

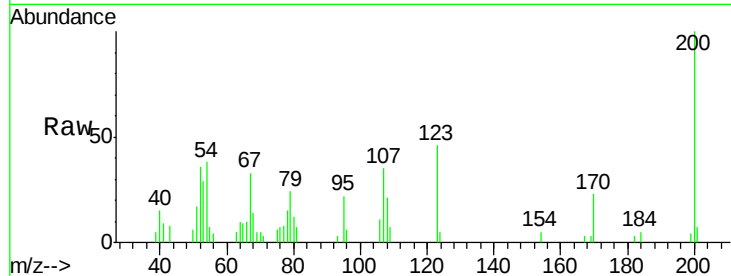
Tot Ion:169 Resp: 110

Ion Ratio Lower Upper

169 100

168 0.0 51.2 76.8#

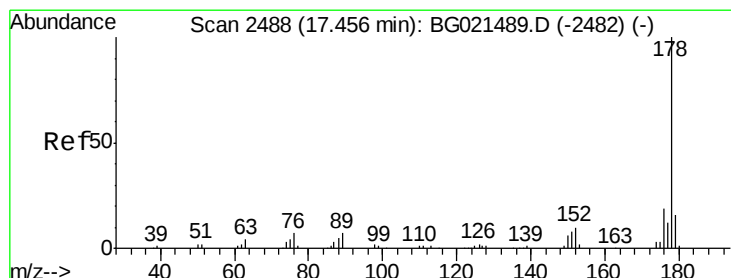
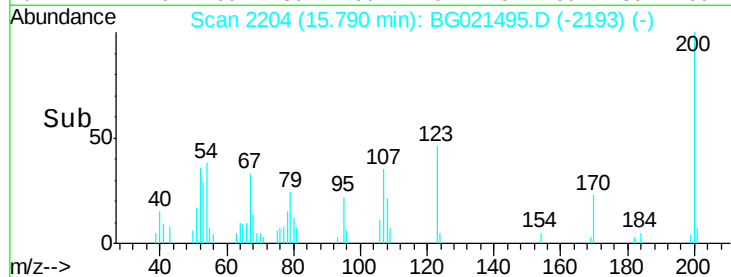
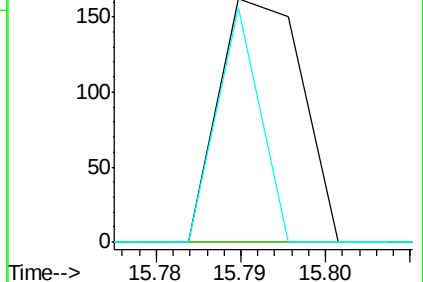
167 96.3 28.6 43.0#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 590.11 ng/ul

RT: 17.46 min Scan# 2488

Delta R.T. 0.00 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

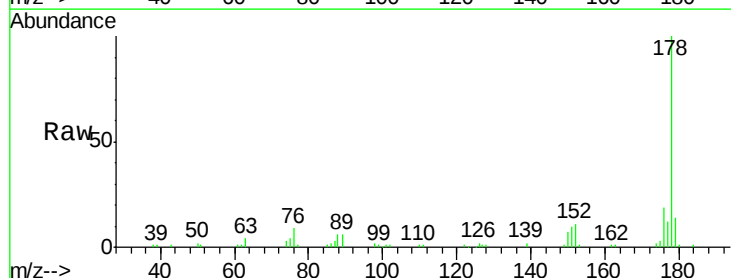
Tgt Ion:178 Resp: 47320

Ion Ratio Lower Upper

178 100

179 14.3 11.8 17.8

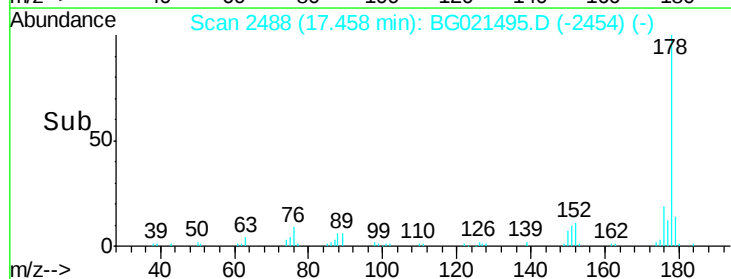
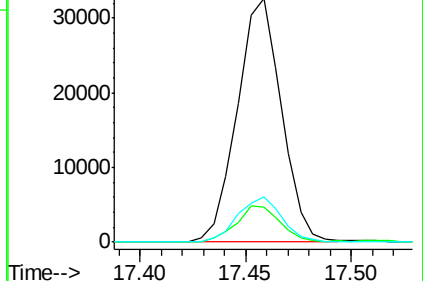
176 18.7 14.8 22.2

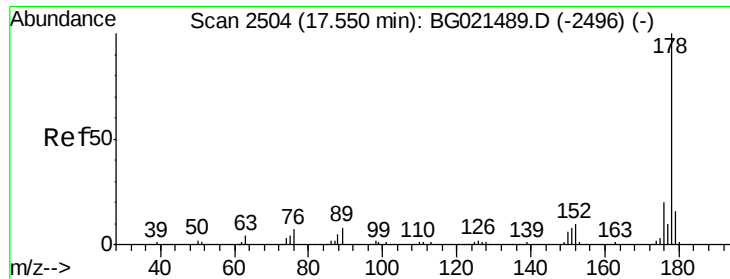


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

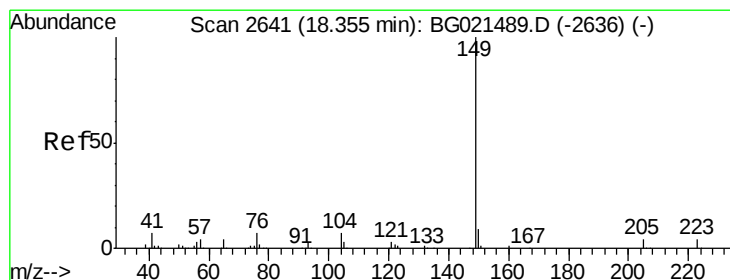
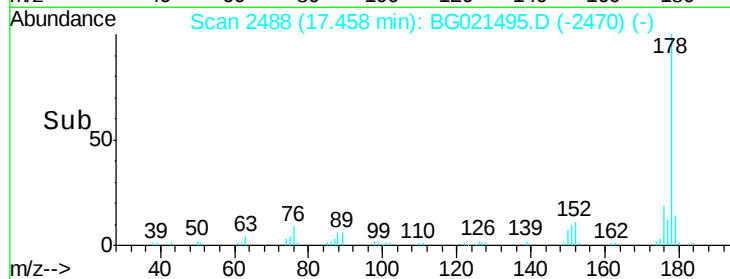
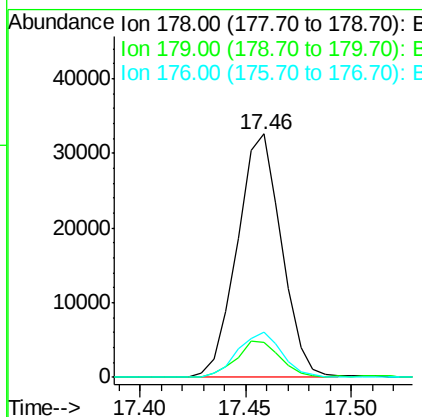
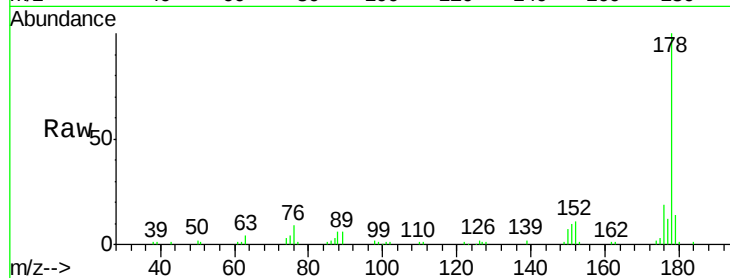




#72
 Anthracene
 Concen: 579.95 ng/ul
 RT: 17.46 min Scan# 2488
 Delta R.T. -0.09 min
 Lab File: BG021495.D
 Acq: 24 Mar 2016 21:43

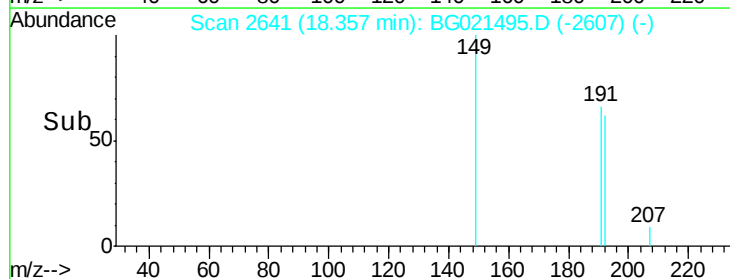
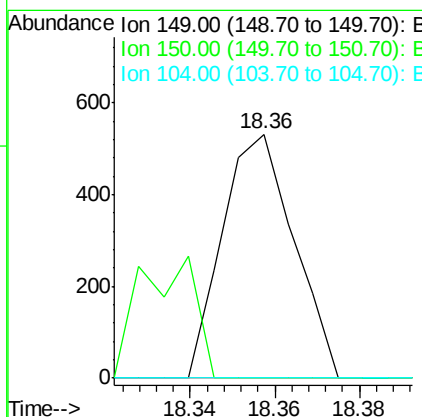
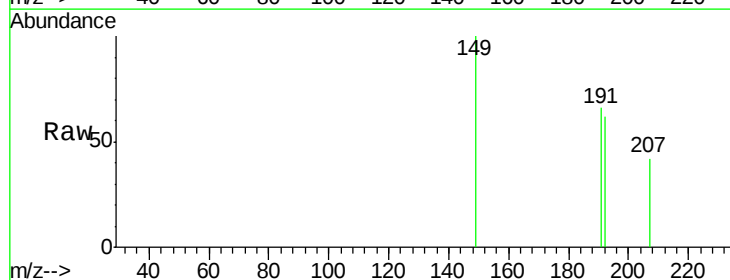
Instrument :
 BNA_G
 ClientSampleId :
 A4T47

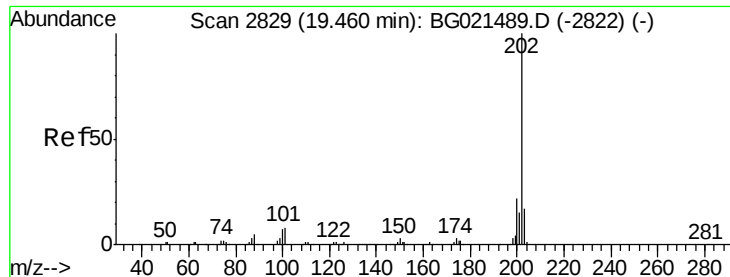
Tot Ion:178 Resp: 47320
 Ion Ratio Lower Upper
 178 100
 179 14.3 12.9 19.3
 176 18.7 15.6 23.4



#76
 Di-n-butylphthalate
 Concen: 6.85 ng/ul
 RT: 18.36 min Scan# 2641
 Delta R.T. 0.00 min
 Lab File: BG021495.D
 Acq: 24 Mar 2016 21:43

Tgt Ion:149 Resp: 624
 Ion Ratio Lower Upper
 149 100
 150 0.0 7.5 11.3#
 104 0.0 5.4 8.2#

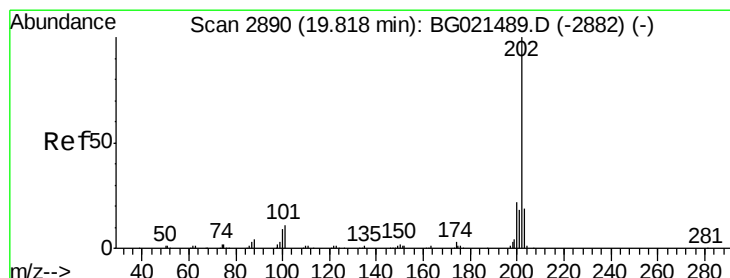
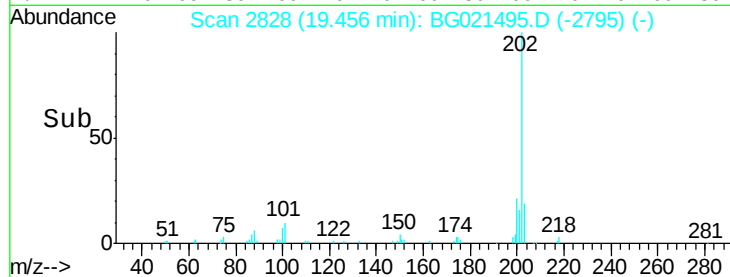
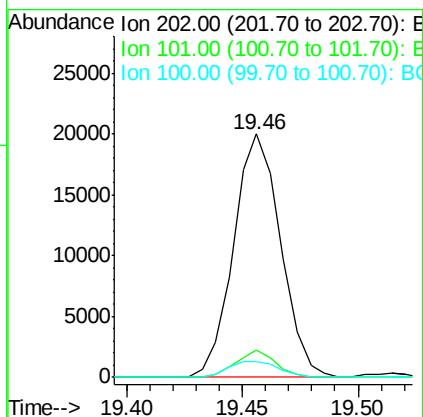
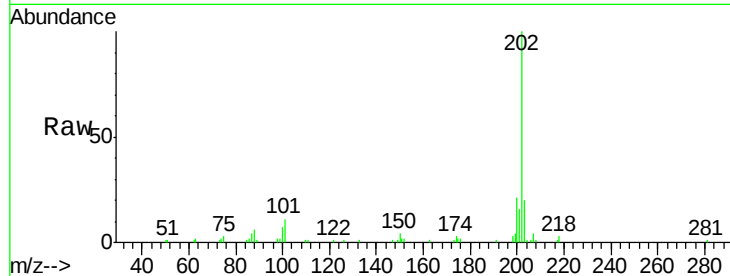




#77
Fluoranthene
 Concen: 292.91 ng/ul
 RT: 19.46 min Scan# 2828
 Delta R.T. -0.00 min
 Lab File: BG021495.D
 Acq: 24 Mar 2016 21:43

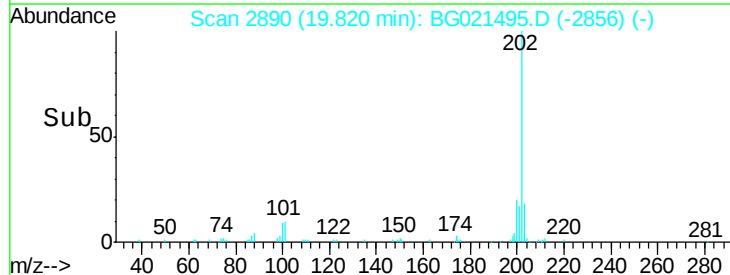
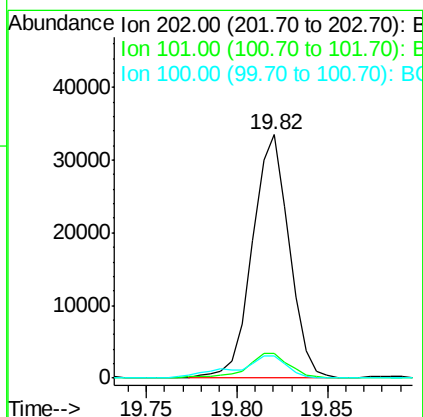
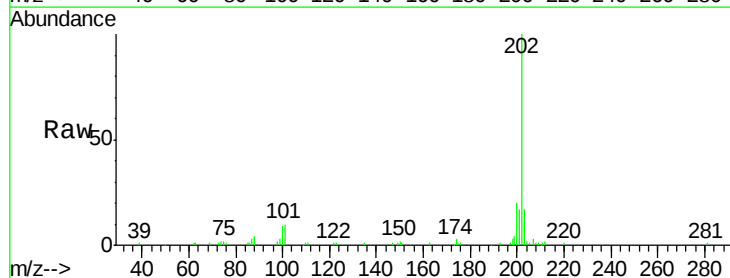
Instrument :
 BNA_G
 ClientSampleId :
 A4T47

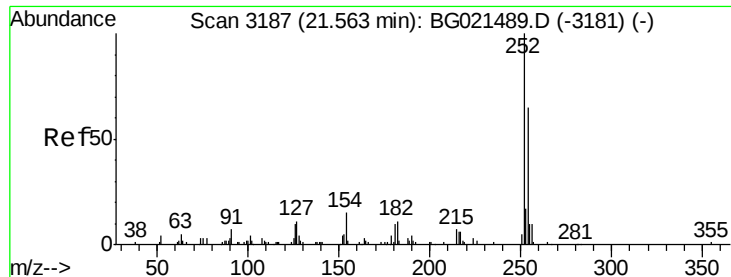
Tot Ion:202 Resp: 28346
 Ion Ratio Lower Upper
 202 100
 101 11.2 8.9 13.3
 100 6.7 7.0 10.4#



#80
Pyrene
 Concen: 493.41 ng/ul
 RT: 19.82 min Scan# 2890
 Delta R.T. 0.00 min
 Lab File: BG021495.D
 Acq: 24 Mar 2016 21:43

Tgt Ion:202 Resp: 47332
 Ion Ratio Lower Upper
 202 100
 101 10.0 9.8 14.8
 100 8.9 9.3 13.9#





#82

3,3'-Dichlorobenzidine

Concen: 7.97 ng/ul

RT: 21.72 min Scan# 3213

Delta R.T. 0.16 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampleId :

A4T47

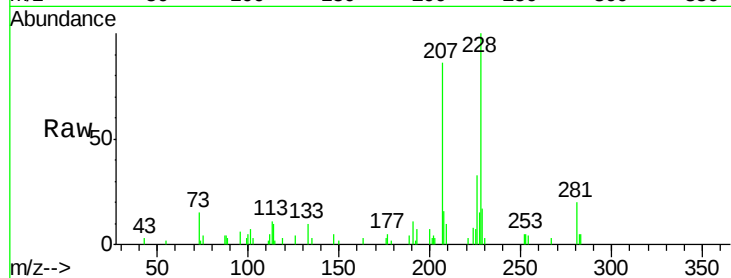
Tot Ion:252 Resp: 266

Ion Ratio Lower Upper

252 100

254 84.2 52.8 79.2#

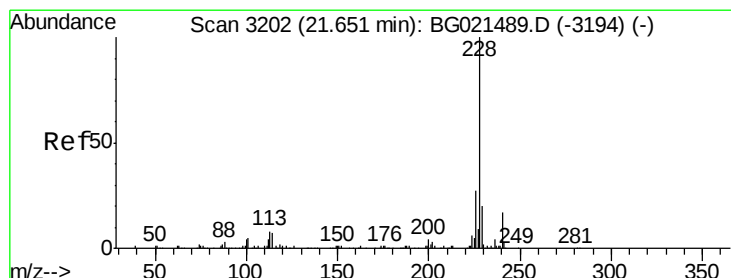
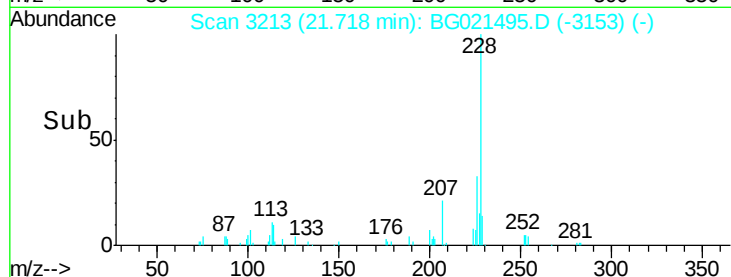
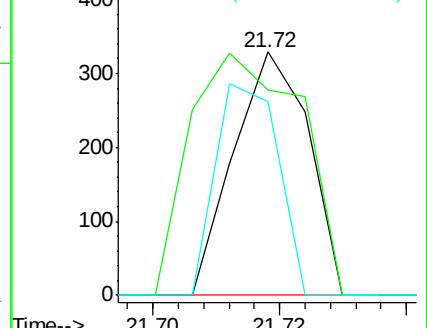
126 79.6 9.8 14.8#



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: 79.91 ng/ul

RT: 21.65 min Scan# 3201

Delta R.T. -0.00 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

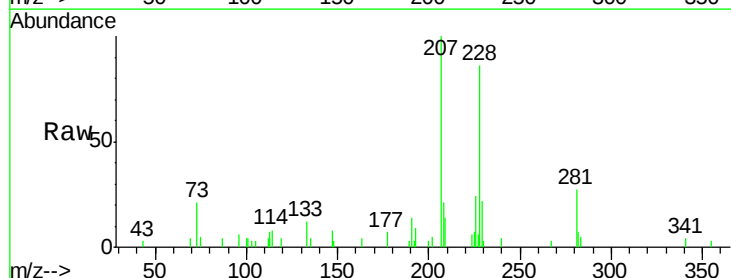
Tgt Ion:228 Resp: 7766

Ion Ratio Lower Upper

228 100

229 25.2 16.6 25.0#

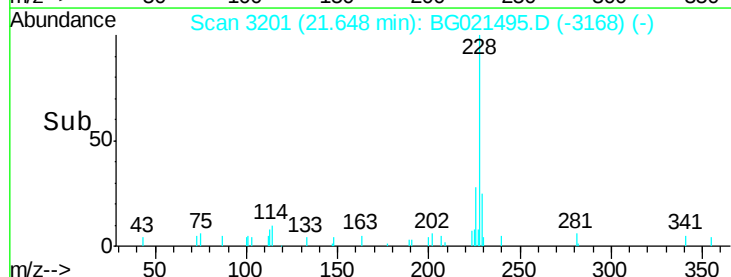
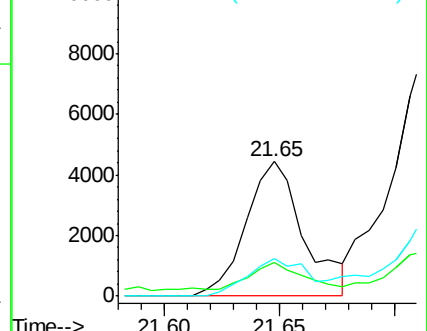
226 28.4 21.0 31.4

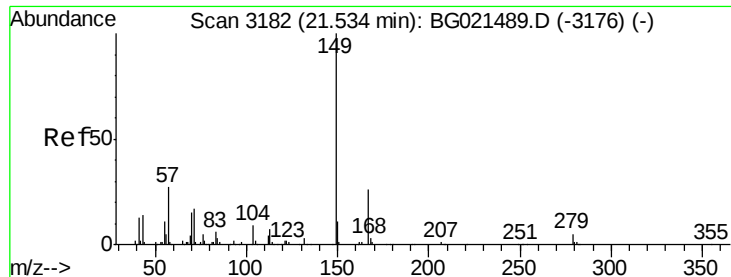


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 9.89 ng/ul

RT: 21.53 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampleId :

A4T47

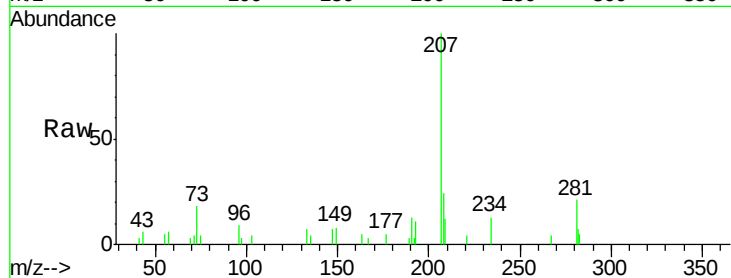
Tot Ion:149 Resp: 586

Ion Ratio Lower Upper

149 100

167 35.4 20.5 30.7#

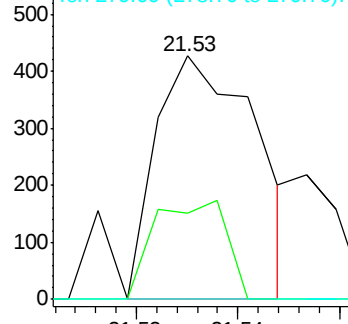
279 0.0 3.7 5.5#



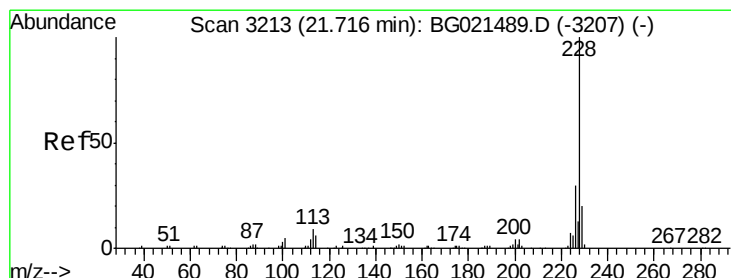
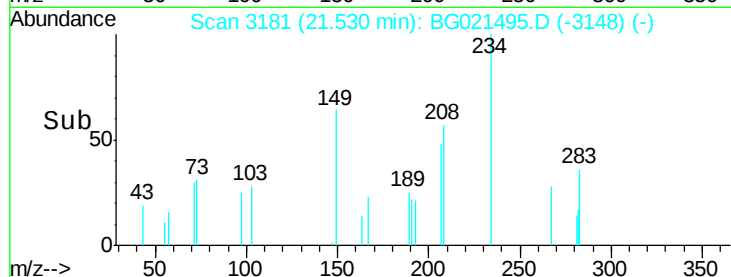
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#85

Chrysene

Concen: 159.28 ng/ul

RT: 21.71 min Scan# 3212

Delta R.T. -0.00 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

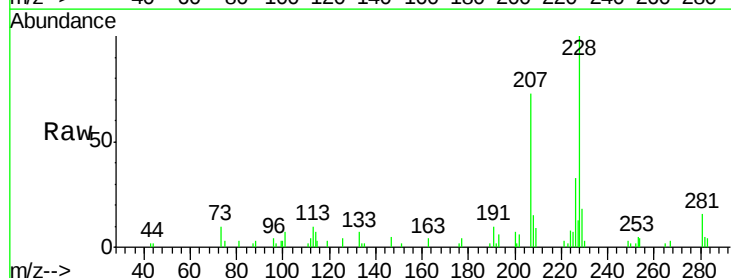
Tgt Ion:228 Resp: 14661

Ion Ratio Lower Upper

228 100

226 32.6 23.4 35.2

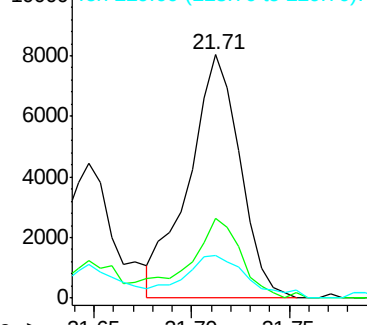
229 17.6 16.2 24.2



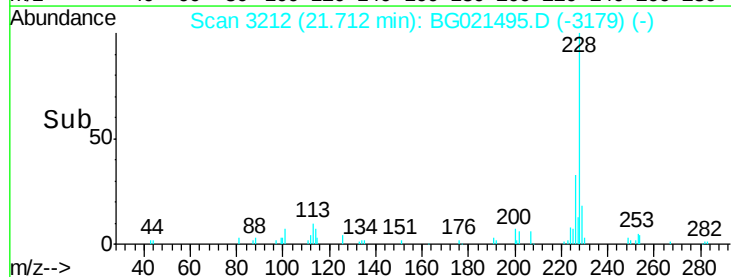
Abundance Ion 228.00 (227.70 to 228.70): E

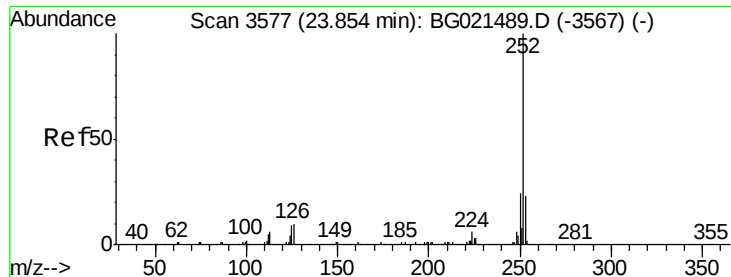
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->





#88

Benzo(b)fluoranthene

Concen: 117.83 ng/ul

RT: 23.86 min Scan# 3578

Delta R.T. 0.01 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampleId :

A4T47

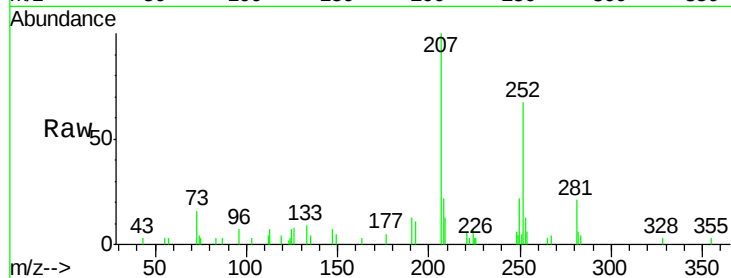
Tot Ion:252 Resp: 13601

Ion Ratio Lower Upper

252 100

253 19.5 18.1 27.1

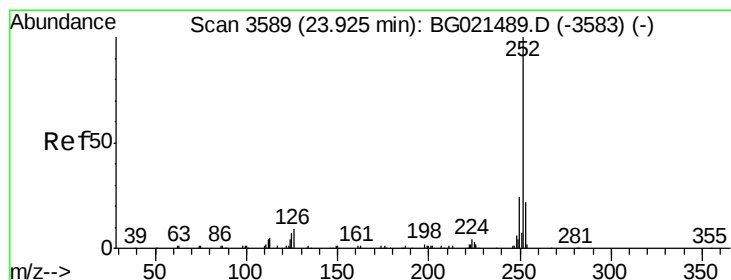
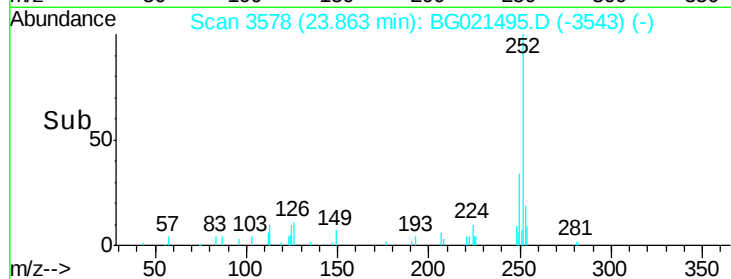
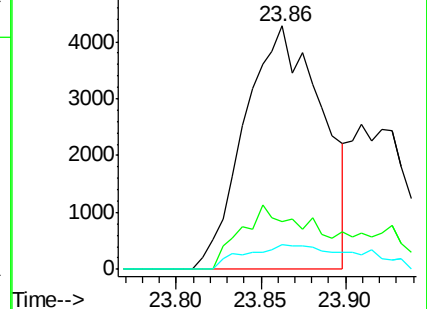
125 10.2 7.6 11.4



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: 2.88 ng/ul

RT: 23.91 min Scan# 3586

Delta R.T. -0.02 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

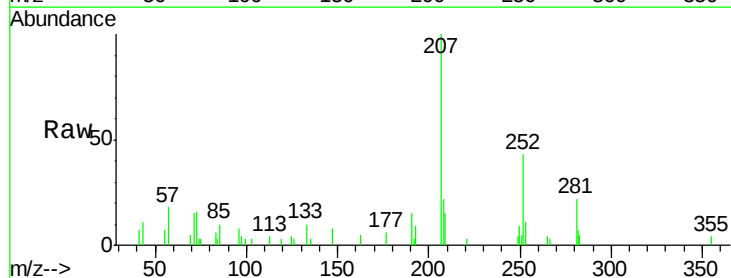
Tgt Ion:252 Resp: 327

Ion Ratio Lower Upper

252 100

253 25.0 17.8 26.8

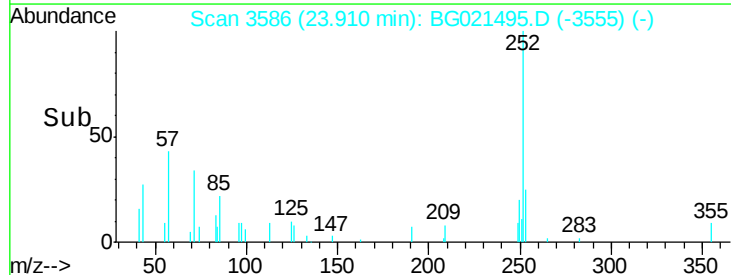
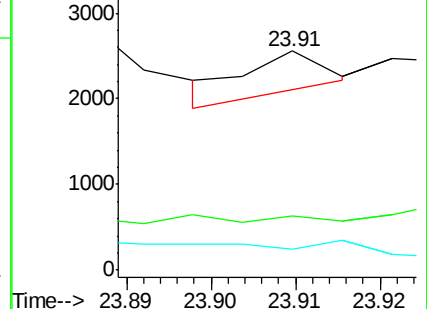
125 9.7 7.7 11.5

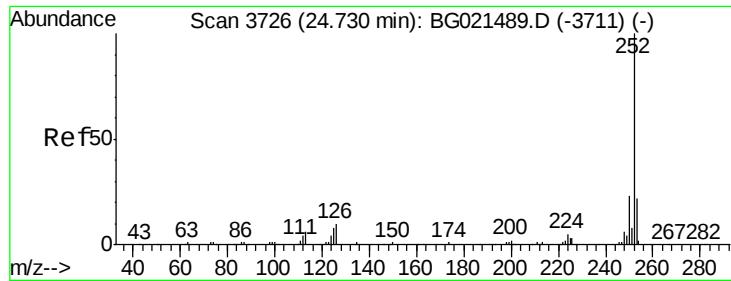


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

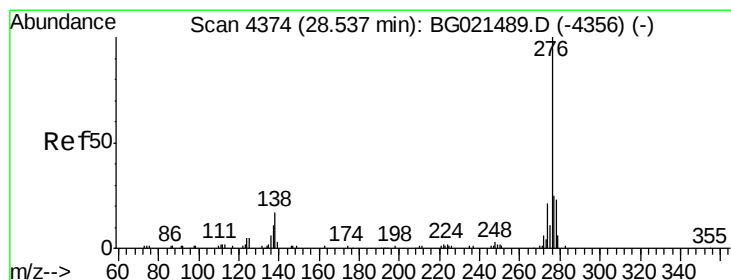
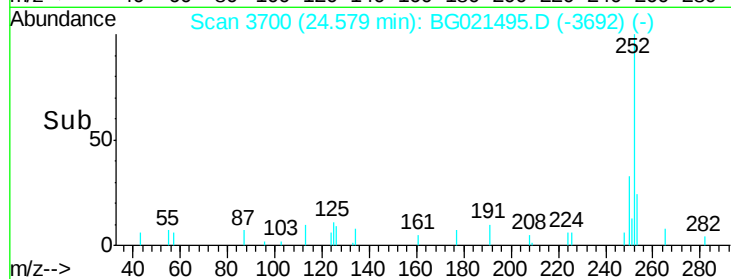
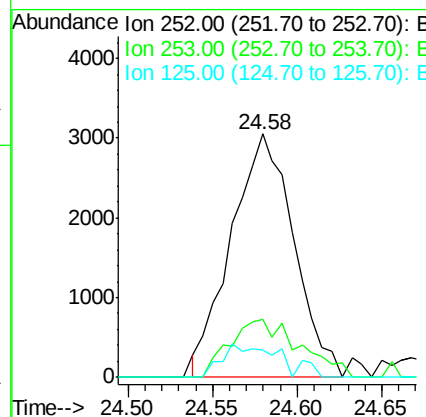
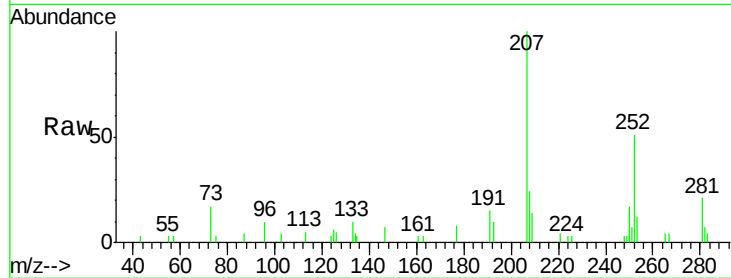




#91
Benzo(a)pyrene
Concen: 70.07 ng/ul
RT: 24.58 min Scan# 3700
Delta R.T. -0.15 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

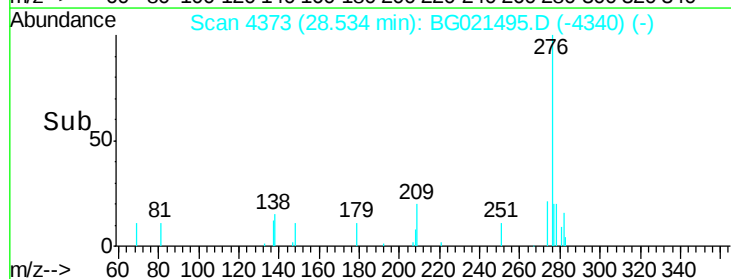
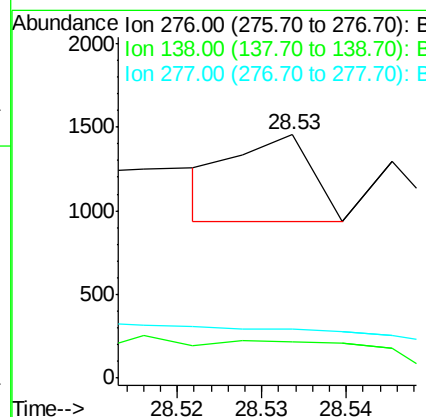
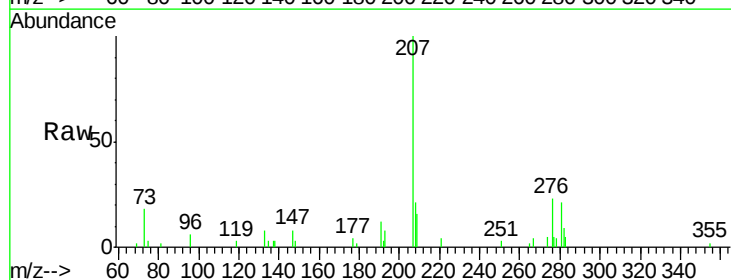
Instrument :
BNA_G
ClientSampleId :
A4T47

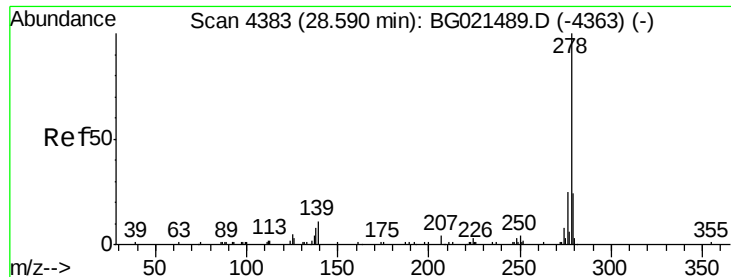
Tot Ion:252 Resp: 7852
Ion Ratio Lower Upper
252 100
253 24.0 17.4 26.0
125 11.2 8.2 12.2



#92
Indeno(1,2,3-cd)pyrene
Concen: 2.57 ng/ul
RT: 28.53 min Scan# 4373
Delta R.T. -0.00 min
Lab File: BG021495.D
Acq: 24 Mar 2016 21:43

Tgt Ion:276 Resp: 327
Ion Ratio Lower Upper
276 100
138 15.0 15.8 23.6#
277 20.2 19.0 28.6





#93

Dibenzo(a,h)anthracene

Concen: 4.86 ng/ul

RT: 28.57 min Scan# 4380

Delta R.T. -0.02 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

Instrument :

BNA_G

ClientSampled :

A4T47

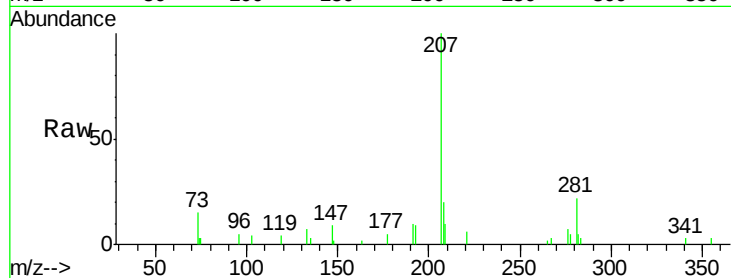
Tot Ion:278 Resp: 527

Ion Ratio Lower Upper

278 100

139 0.0 12.1 18.1#

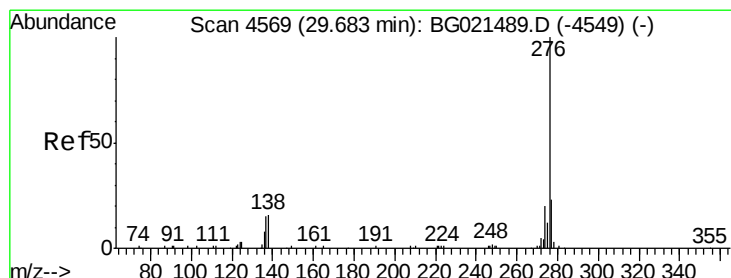
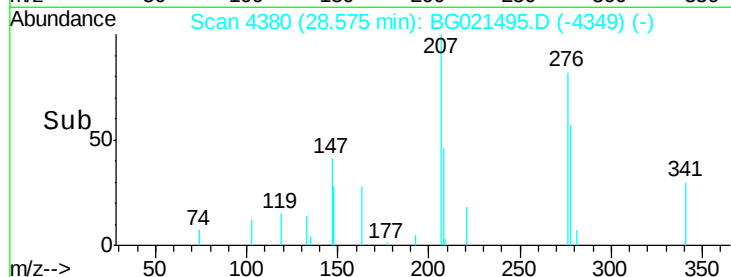
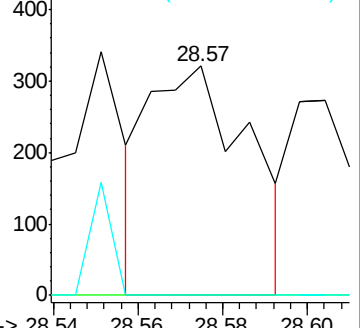
279 0.0 19.8 29.8#



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: 46.55 ng/ul

RT: 29.67 min Scan# 4566

Delta R.T. -0.02 min

Lab File: BG021495.D

Acq: 24 Mar 2016 21:43

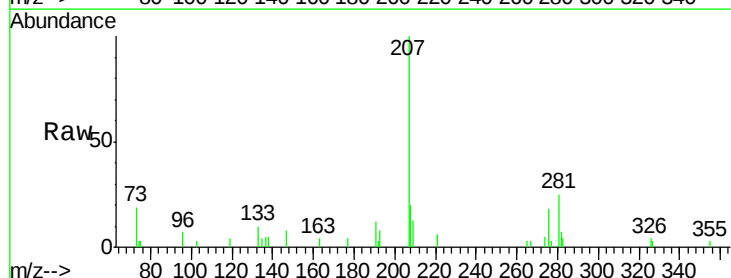
Tgt Ion:276 Resp: 4875

Ion Ratio Lower Upper

276 100

138 25.3 13.9 20.9#

277 17.3 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

