

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081215\
 Data File : BE090495.D
 Acq On : 13 Aug 2015 8:00
 Operator : UM/IZ
 Sample : G3248-08
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 13 08:32:28 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 12:28:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	24739	5.00	ng	-0.01
6) Naphthalene-d8	10.33	136	111631	5.00	ng	0.00
12) Acenaphthene-d10	14.19	164	62821	5.00	ng	0.00
18) Phenanthrene-d10	16.95	188	134628	5.00	ng	0.00
25) Chrysene-d12	21.10	240	150120	5.00	ng	0.00
32) Perylene-d12	23.40	264	150358	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	41794	11.26	ng	0.00
5) Phenol-d6	6.77	99	64108	7.96	ng	0.00
7) Nitrobenzene-d5	8.72	82	36652	4.07	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	20671	9.74	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	71036	4.11	ng	0.00
27) Terphenyl-d14	19.55	244	103234	4.67	ng	0.00

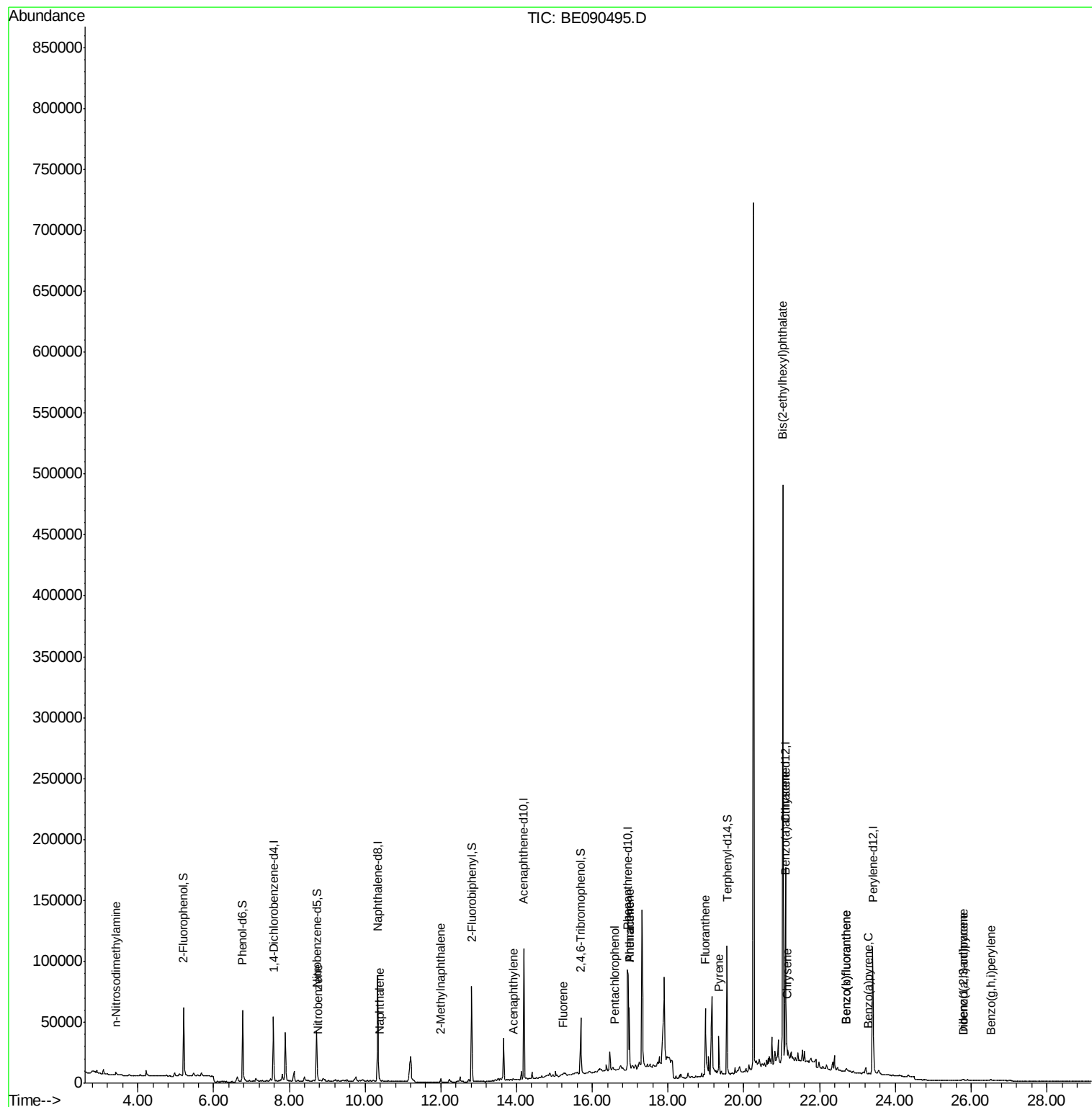
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.33	88	37	Below Cal	#	1
3) n-Nitrosodimethylamine	3.42	42	749	0.20	ng	1
8) Nitrobenzene	8.76	77	79	0.22	ng	1
9) Naphthalene	10.39	128	2256	0.09	ng	65
10) Hexachlorobutadiene	10.70	225	6	Below Cal	#	36
11) 2-Methylnaphthalene	12.00	142	1876	0.13	ng	77
15) Acenaphthylene	13.91	152	2338	0.02	ng	90
17) Fluorene	15.24	166	1540	0.07	ng	94
21) Pentachlorophenol	16.60	266	676	0.82	ng	96
22) Phenanthrene	16.98	178	53166	1.58	ng	99
23) Anthracene	16.98	178	51901	1.87	ng	99
24) Fluoranthene	18.98	202	47245	1.42	ng	92
26) Pvrene	19.34	202	26143	0.80	ng	97
28) Benzo(a)anthracene	21.09	228	2449	0.07	ng	1
29) Chrysene	21.13	228	10219	0.25	ng	72
30) Bis(2-ethylhexyl)phthalate	21.03	149	461445	18.60	ng	98
31) Indeno(1,2,3-cd)pvrene	25.78	276	1611	0.29	ng	90
33) Benzo(b)fluoranthene	22.70	252	4930	0.33	ng	1
34) Benzo(k)fluoranthene	22.70	252	4934	0.12	ng	1
35) Benzo(a)pvrene	23.30	252	941	0.25	ng	1
36) Dibenzo(a,h)anthracene	25.80	278	879	0.31	ng	1
37) Benzo(g,h,i)perylene	26.52	276	1776	0.06	ng	30

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 844

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

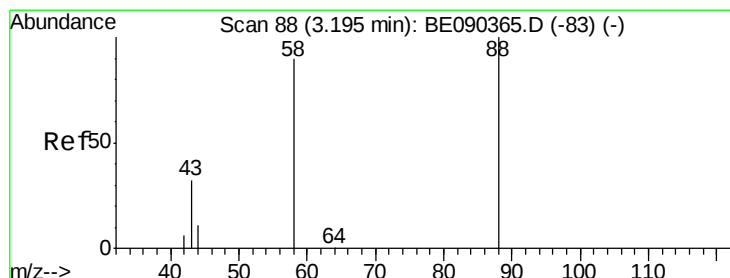
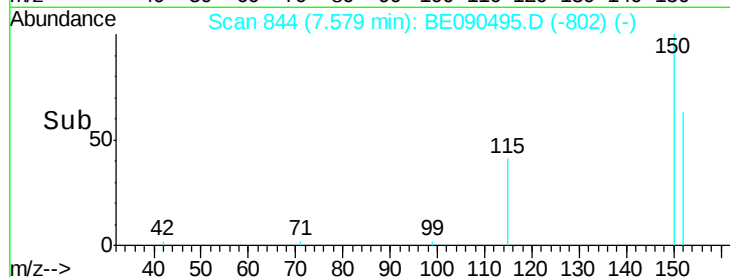
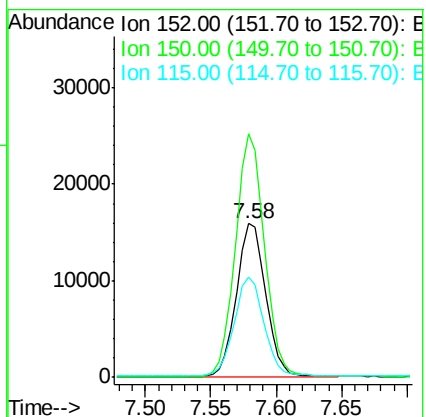
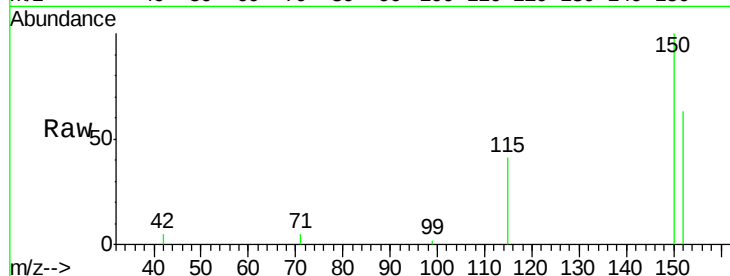
Tot Ion:152 Resp: 24739

Ion Ratio Lower Upper

152 100

150 158.1 123.0 184.4

115 65.5 48.9 73.3



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.33 min Scan# 107

Delta R.T. 0.13 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

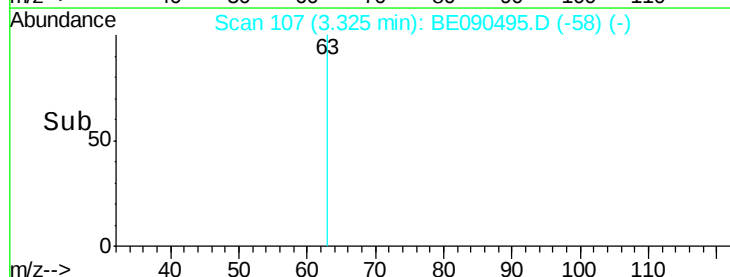
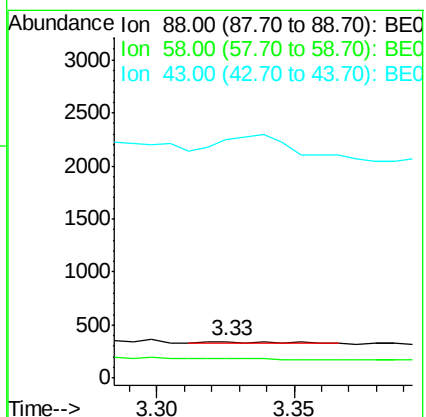
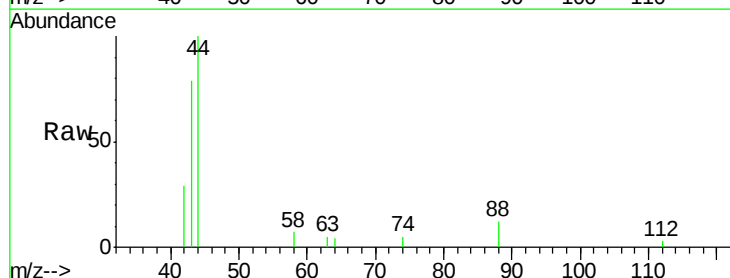
Tgt Ion: 88 Resp: 37

Ion Ratio Lower Upper

88 100

58 0.0 70.0 105.0#

43 754.1 28.4 42.6#





#3

n-Nitrosodimethylamine

Concen: 0.20 ng

RT: 3.42 min Scan# 121

Delta R.T. -0.07 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampled :

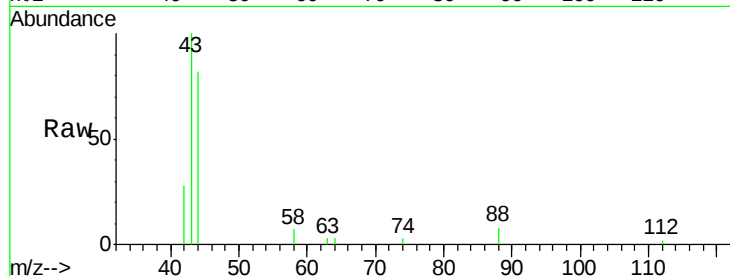
Tot Ion: 42 Resp: 749

Ion Ratio Lower Upper

42 100

74 0.0 75.2 112.8#

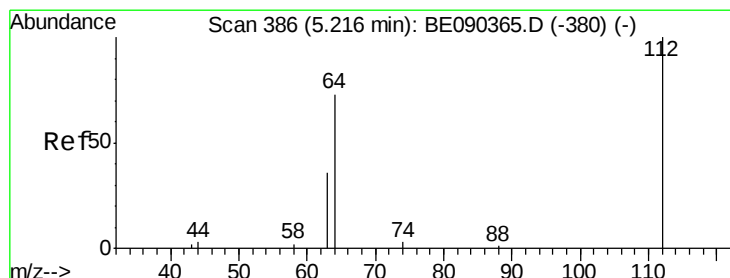
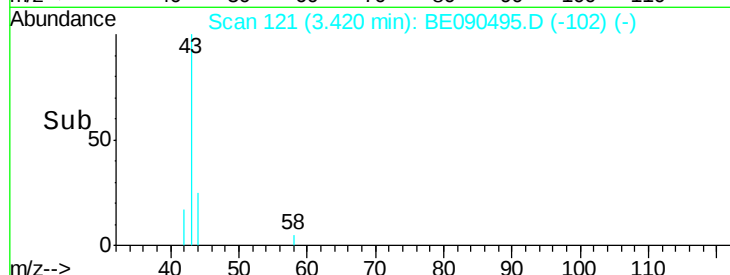
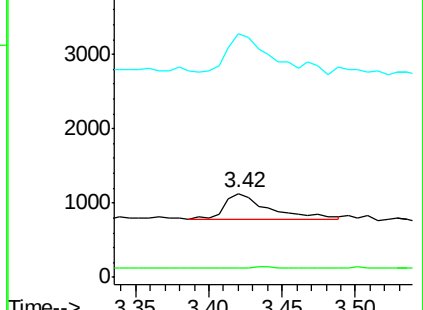
44 152.6 8.7 13.1#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 11.26 ng

RT: 5.21 min Scan# 385

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

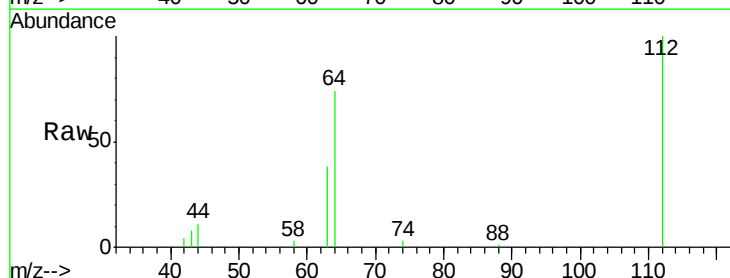
Tgt Ion: 112 Resp: 41794

Ion Ratio Lower Upper

112 100

64 72.2 37.1 55.7#

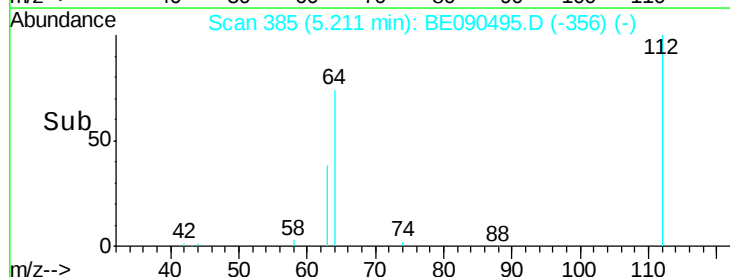
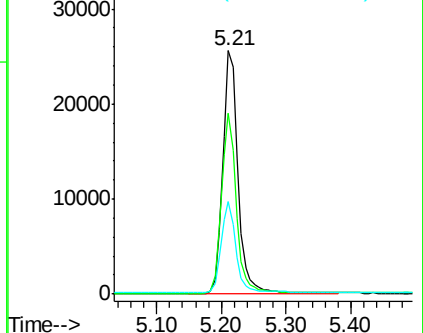
63 37.1 19.5 29.3#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 7.96 ng

RT: 6.77 min Scan# 666

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

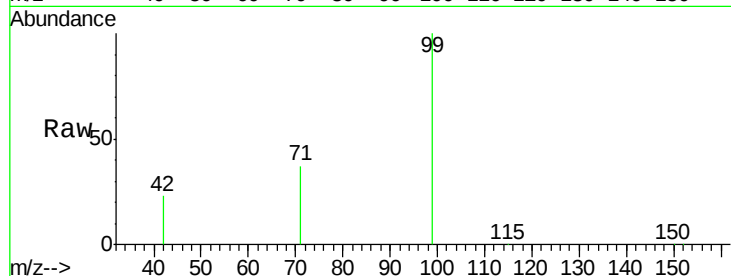
Tot Ion: 99 Resp: 64108

Ion Ratio Lower Upper

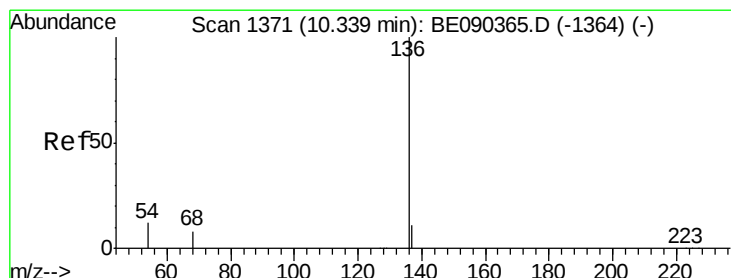
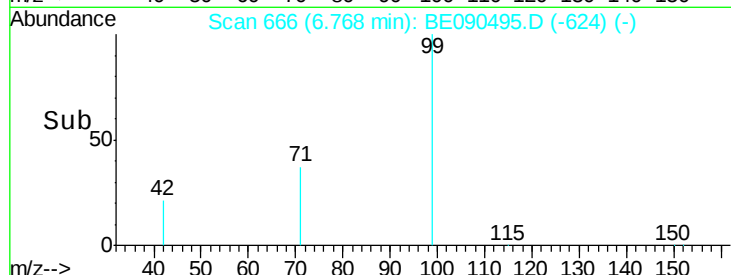
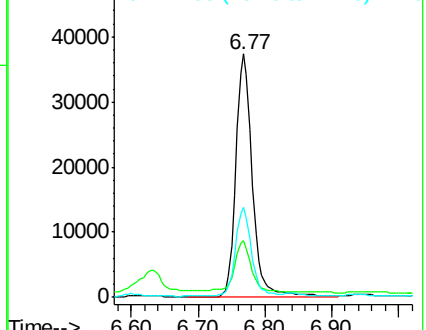
99 100

42 21.4 18.2 27.4

71 35.7 27.4 41.0



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.33 min Scan# 1370

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Tgt Ion: 136 Resp: 111631

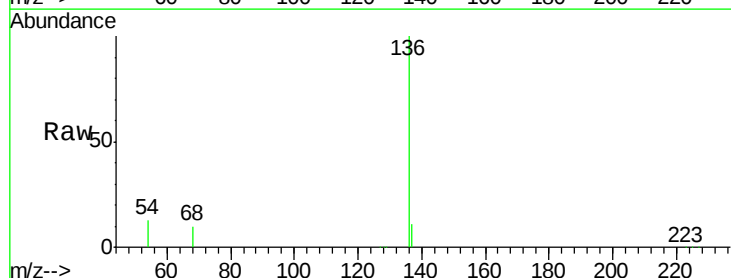
Ion Ratio Lower Upper

136 100

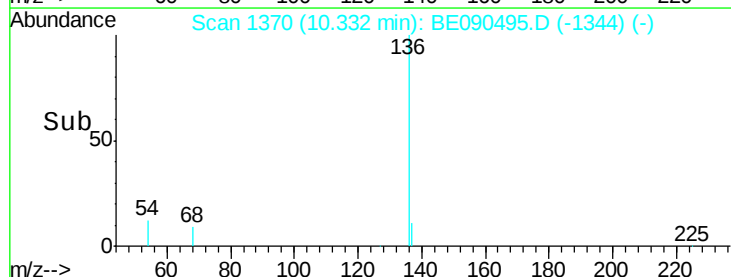
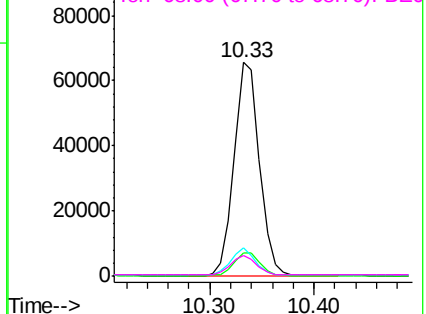
137 11.1 8.7 13.1

54 12.9 9.4 14.0

68 9.6 6.5 9.7



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 4.07 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampled :

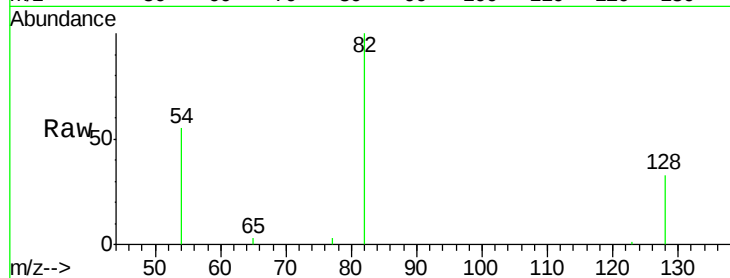
Tot Ion: 82 Resp: 36652

Ion Ratio Lower Upper

82 100

128 33.3 25.0 37.6

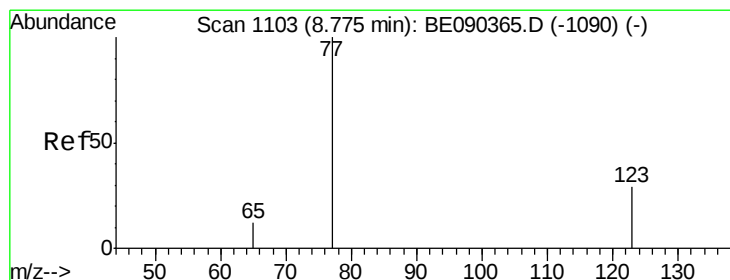
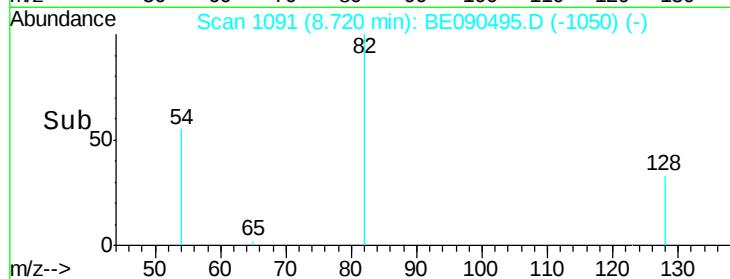
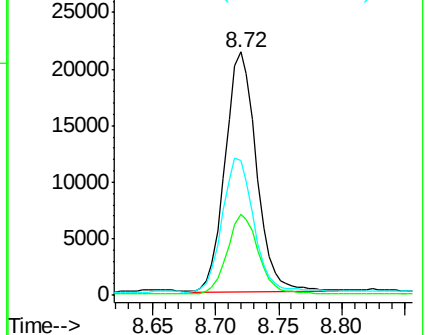
54 55.5 48.8 73.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#8

Nitrobenzene

Concen: 0.22 ng

RT: 8.76 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

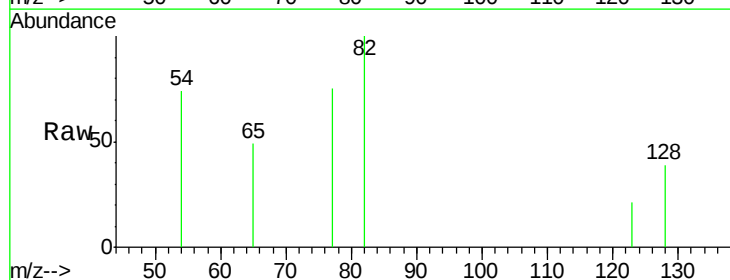
Tgt Ion: 77 Resp: 79

Ion Ratio Lower Upper

77 100

123 170.9 25.1 37.7#

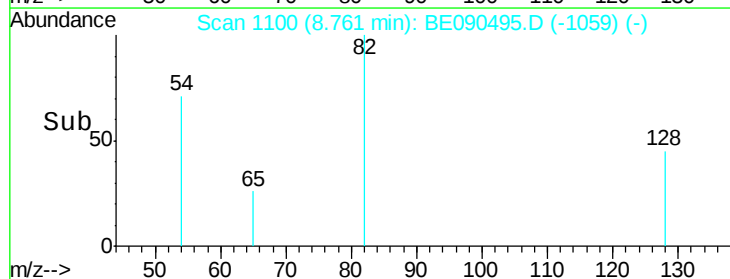
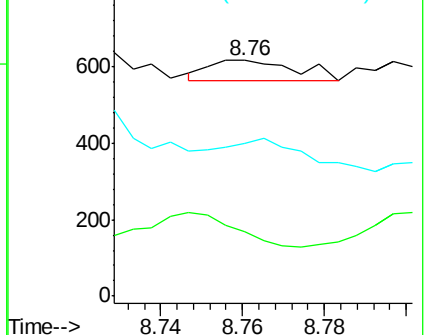
65 0.0 9.3 13.9#

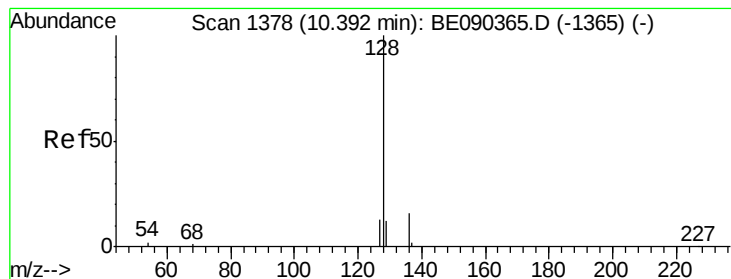


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#9

Naphthalene

Concen: 0.09 ng

RT: 10.39 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

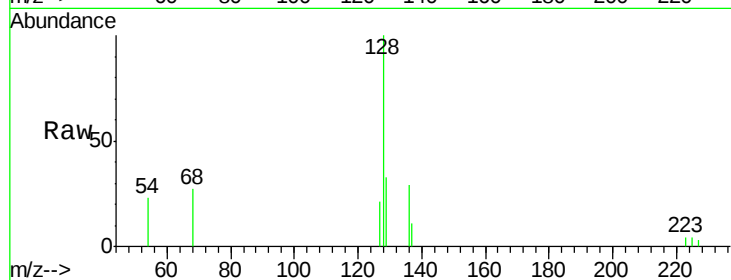
Tot Ion:128 Resp: 2256

Ion Ratio Lower Upper

128 100

129 33.1 9.8 14.6#

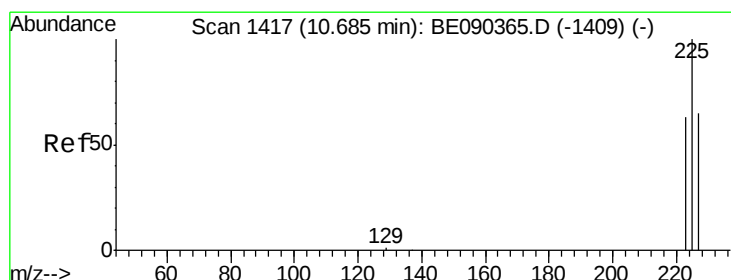
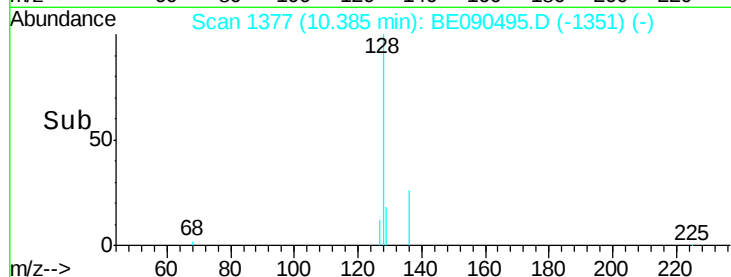
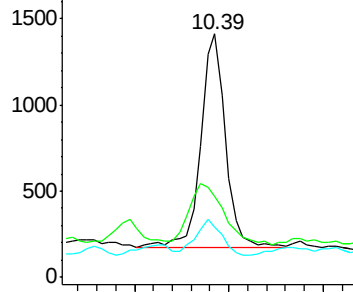
127 20.9 10.6 16.0#



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

Hexachlorobutadiene

Concen: Below Cal

RT: 10.70 min Scan# 1419

Delta R.T. 0.02 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

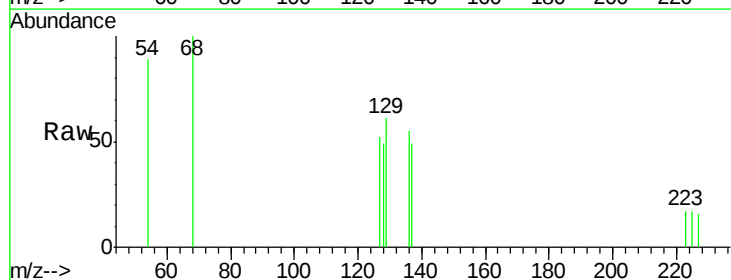
Tgt Ion:225 Resp: 6

Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

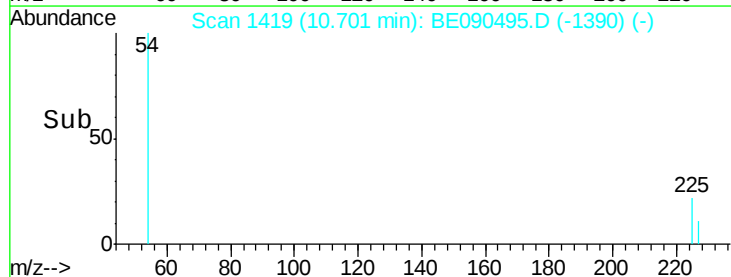
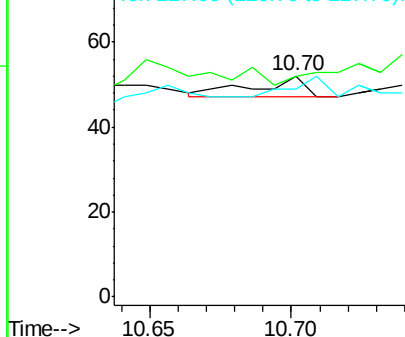
227 100.0 50.7 76.1#



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

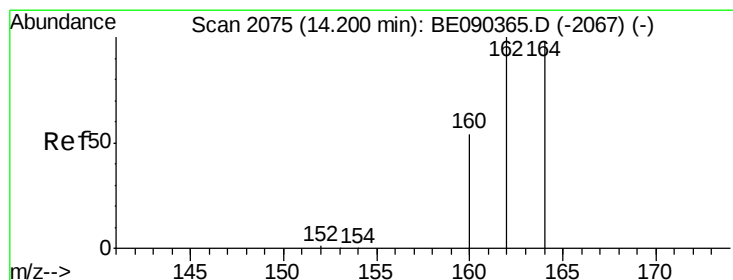
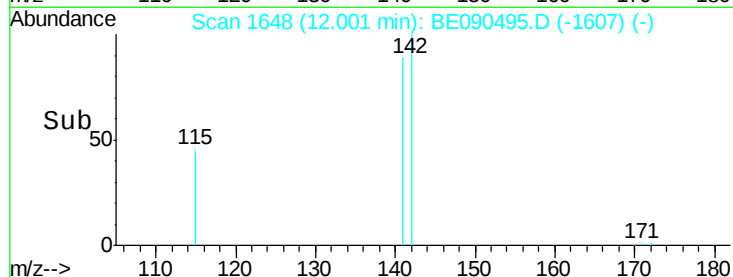
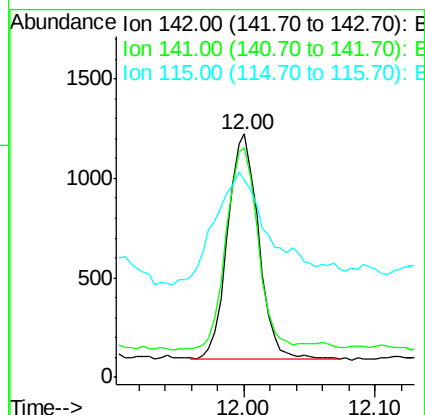
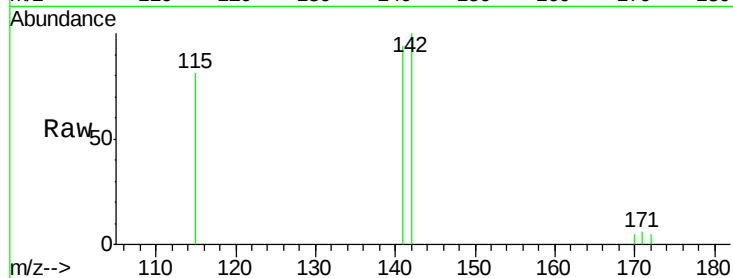




#11
2-Methylnaphthalene
Concen: 0.13 ng
RT: 12.00 min Scan# 1648
Delta R.T. -0.01 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

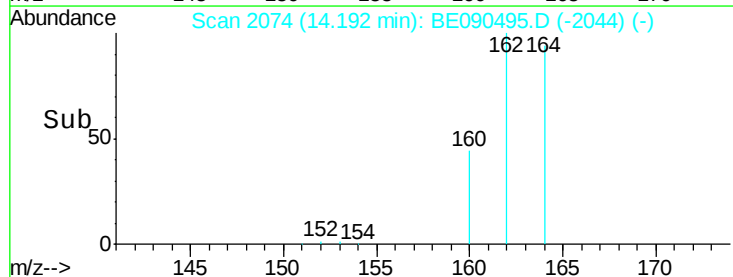
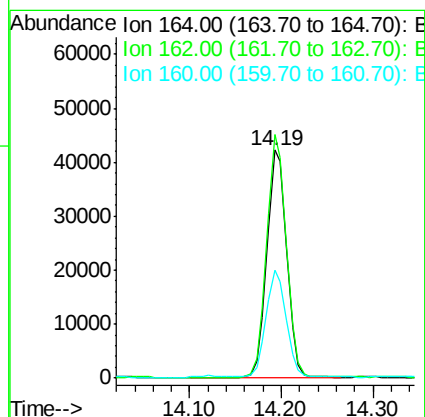
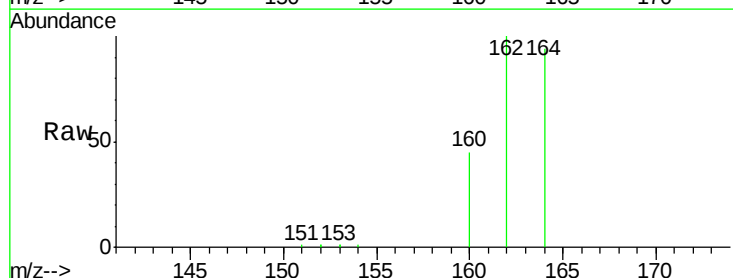
Instrument :
BNA_E
ClientSampleId :

Tot Ion:142 Resp: 1876
Ion Ratio Lower Upper
142 100
141 94.4 72.6 109.0
115 81.4 31.6 47.4#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.19 min Scan# 2074
Delta R.T. -0.01 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

Tgt Ion:164 Resp: 62821
Ion Ratio Lower Upper
164 100
162 106.7 81.8 122.8
160 47.5 44.2 66.4

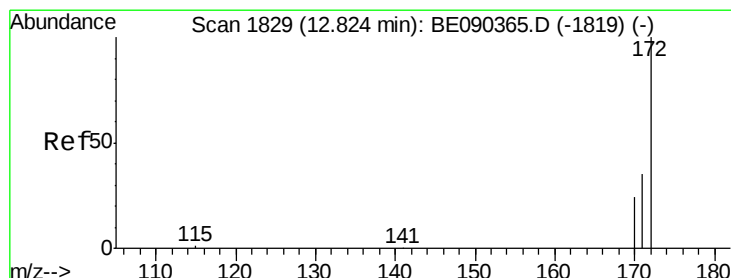
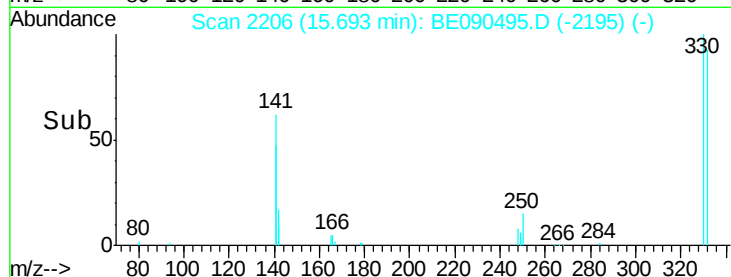
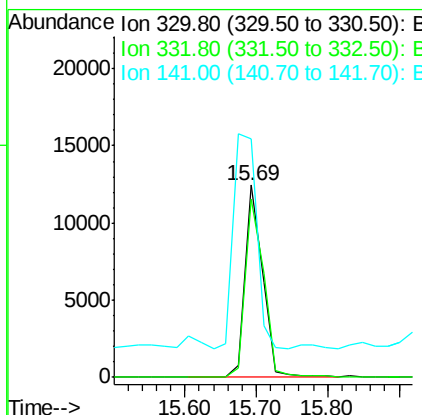
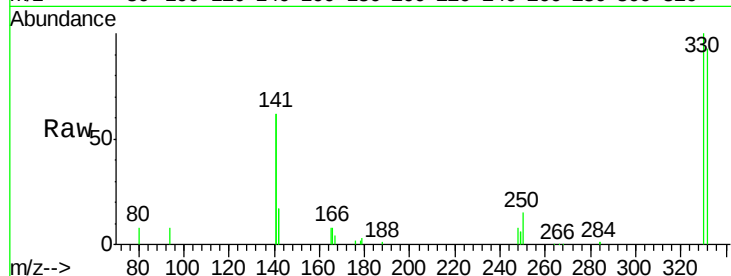




#13
 2,4,6-Tribromophenol
 Concen: 9.74 ng
 RT: 15.69 min Scan# 2206
 Delta R.T. -0.02 min
 Lab File: BE090495.D
 Acq: 13 Aug 2015 8:00

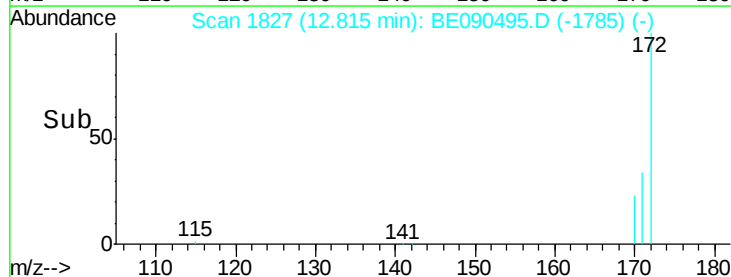
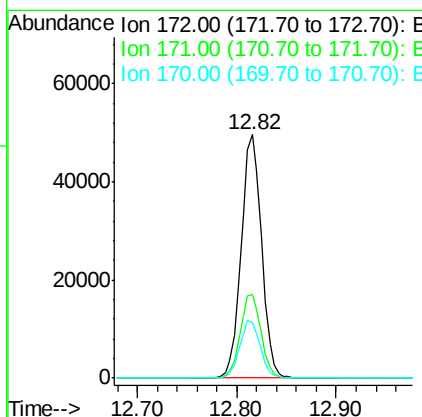
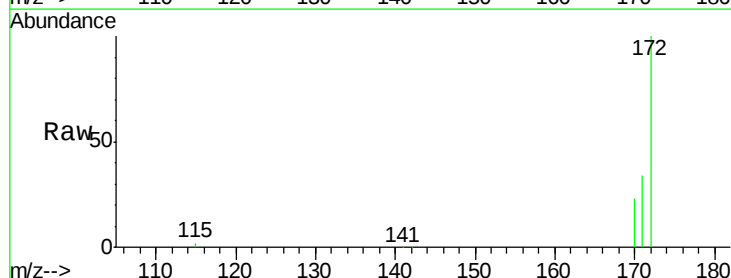
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 20671
 Ion Ratio Lower Upper
 330 100
 332 97.9 75.8 113.6
 141 149.3 114.4 171.6



#14
 2-Fluorobiphenyl
 Concen: 4.11 ng
 RT: 12.82 min Scan# 1827
 Delta R.T. -0.01 min
 Lab File: BE090495.D
 Acq: 13 Aug 2015 8:00

Tgt Ion:172 Resp: 71036
 Ion Ratio Lower Upper
 172 100
 171 34.2 28.5 42.7
 170 22.7 19.8 29.8





#15

Acenaphthylene

Concen: 0.02 ng

RT: 13.91 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampled :

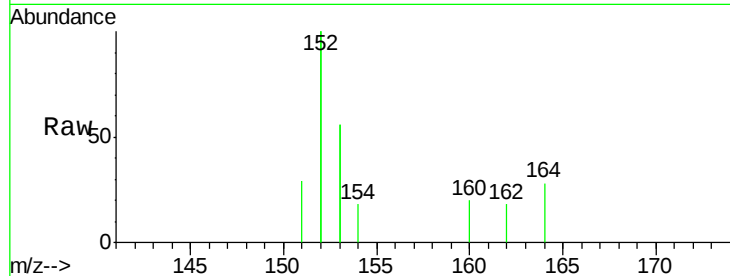
Tot Ion:152 Resp: 2338

Ion Ratio Lower Upper

152 100

151 2.2 3.8 5.8#

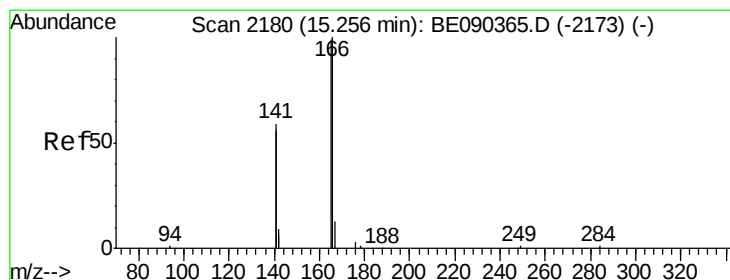
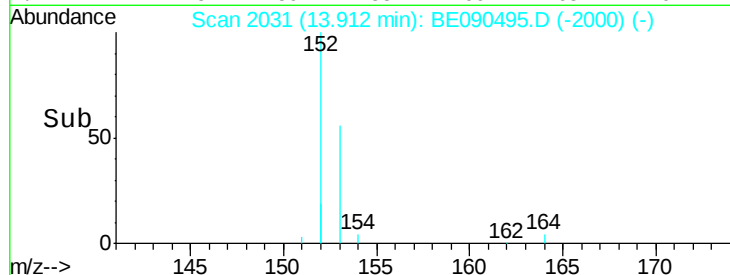
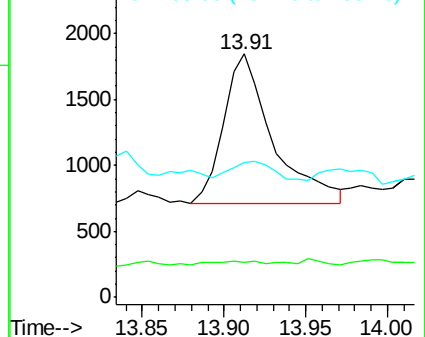
153 17.0 10.3 15.5#



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



#17

Fluorene

Concen: 0.07 ng

RT: 15.24 min Scan# 2180

Delta R.T. -0.02 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

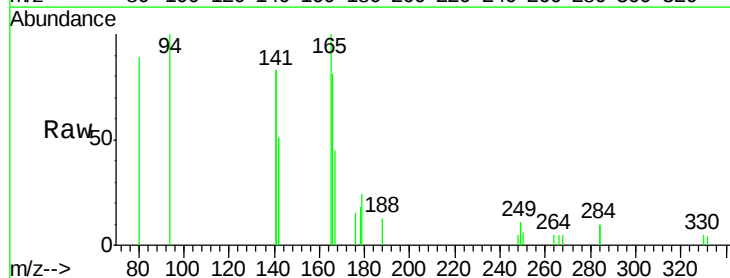
Tgt Ion:166 Resp: 1540

Ion Ratio Lower Upper

166 100

165 103.5 81.5 122.3

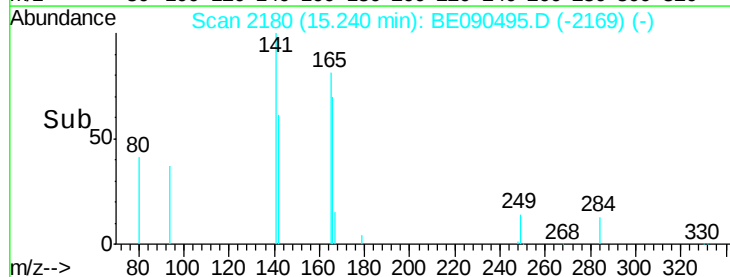
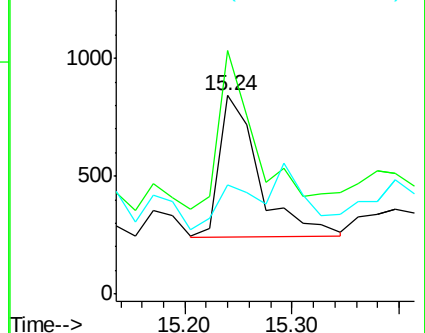
167 0.0 11.4 17.0#

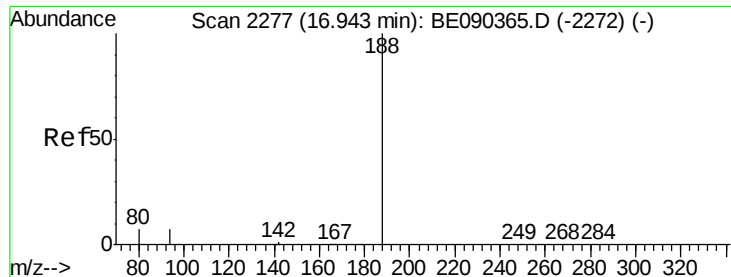


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.95 min Scan# 2278

Delta R.T. 0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

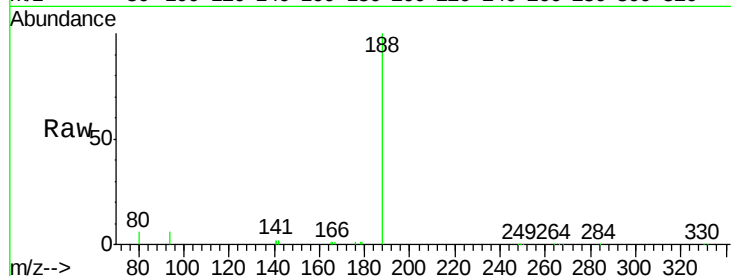
Tot Ion:188 Resp: 134628

Ion Ratio Lower Upper

188 100

94 6.1 5.7 8.5

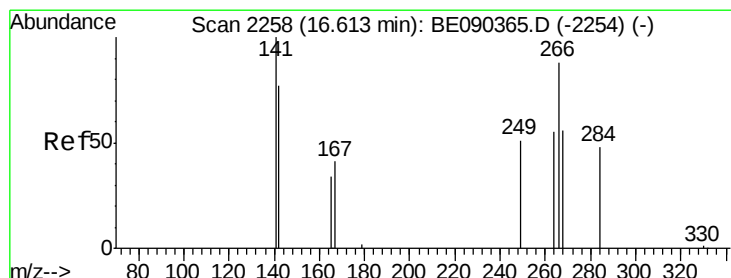
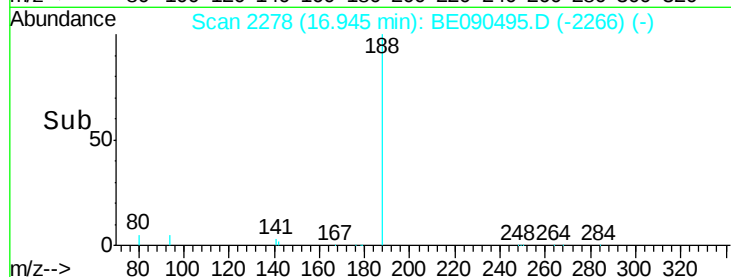
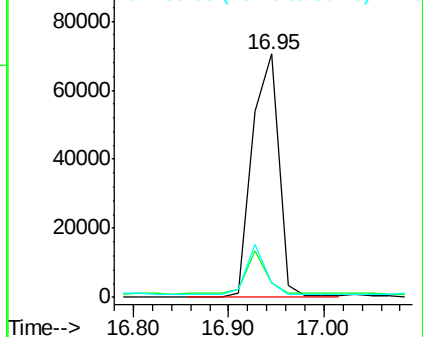
80 5.8 5.8 8.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#21

Pentachlorophenol

Concen: 0.82 ng

RT: 16.60 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

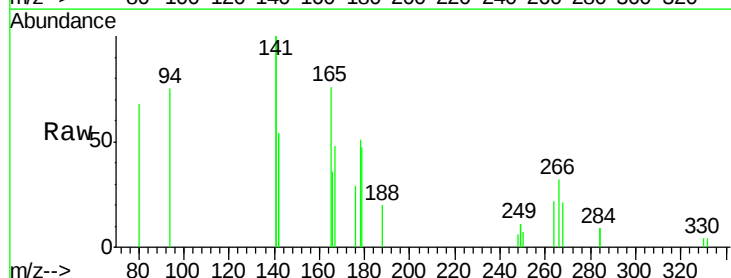
Tgt Ion:266 Resp: 676

Ion Ratio Lower Upper

266 100

268 67.1 58.5 87.7

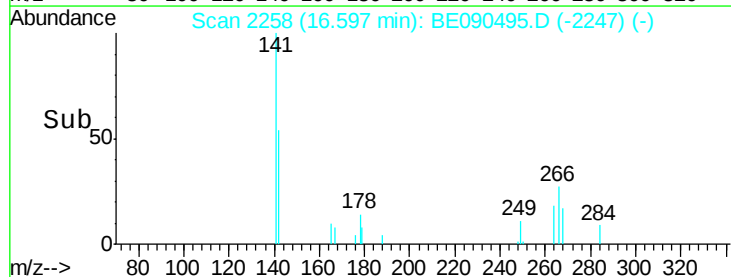
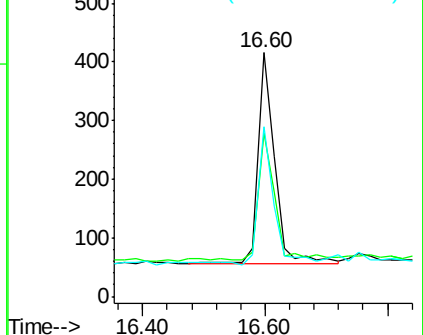
264 69.5 56.0 84.0

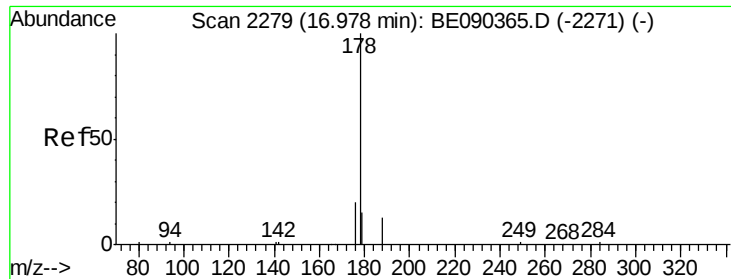


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 1.58 ng

RT: 16.98 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

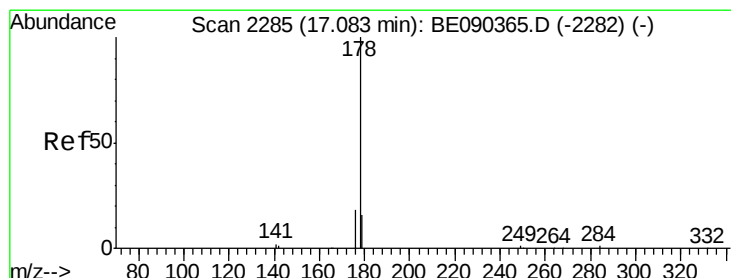
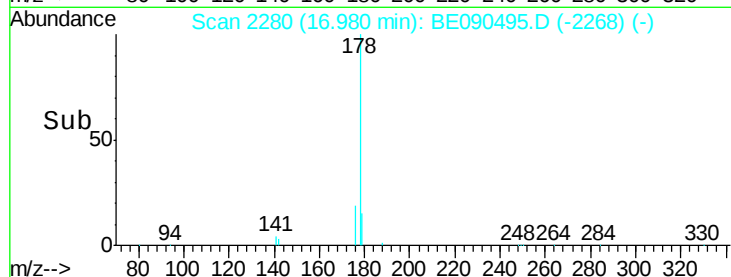
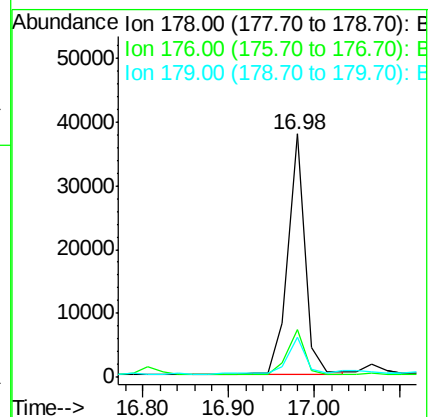
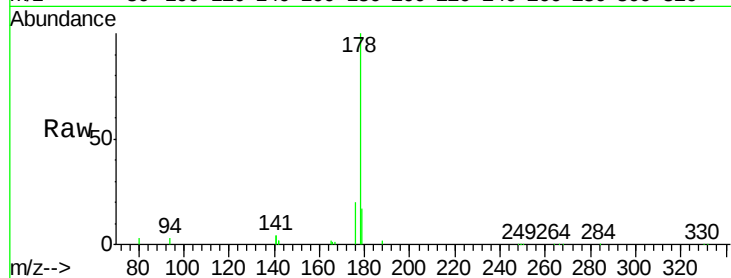
Tot Ion:178 Resp: 53166

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 16.2 12.5 18.7



#23

Anthracene

Concen: 1.87 ng

RT: 16.98 min Scan# 2280

Delta R.T. -0.10 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

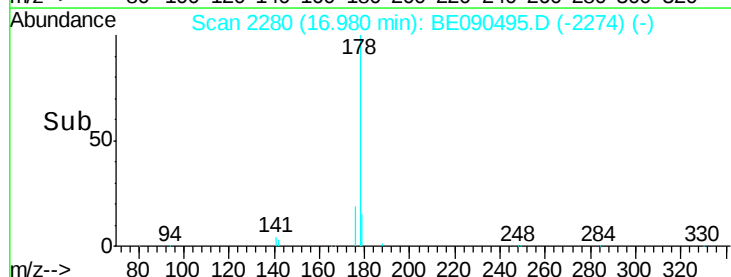
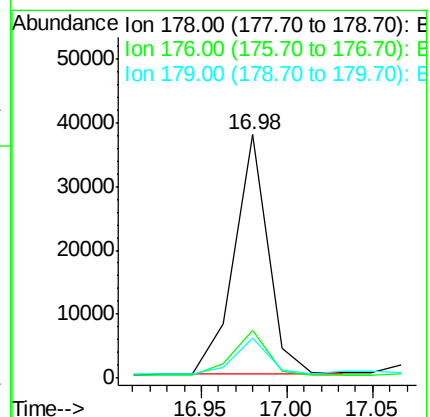
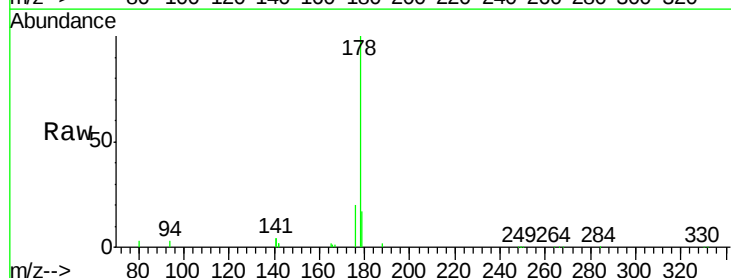
Tgt Ion:178 Resp: 51901

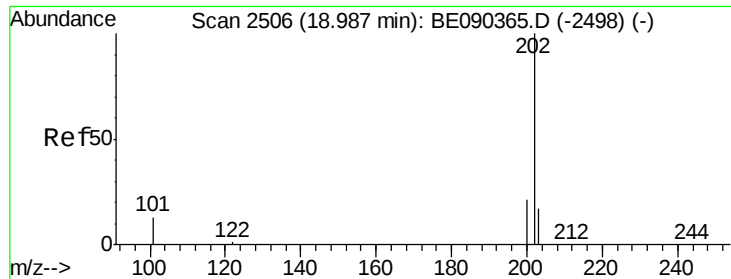
Ion Ratio Lower Upper

178 100

176 19.2 14.9 22.3

179 15.1 12.2 18.4





#24

Fluoranthene

Concen: 1.42 ng

RT: 18.98 min Scan# 2506

Delta R.T. -0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

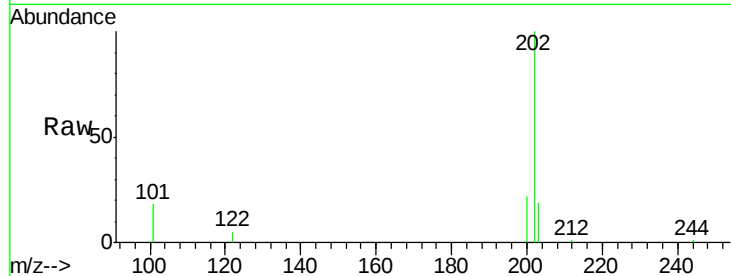
Tot Ion:202 Resp: 47245

Ion Ratio Lower Upper

202 100

101 18.6 10.3 15.5#

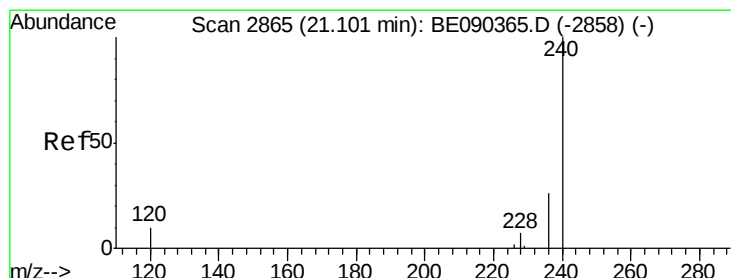
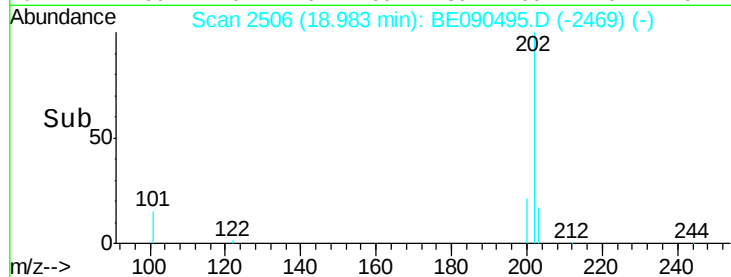
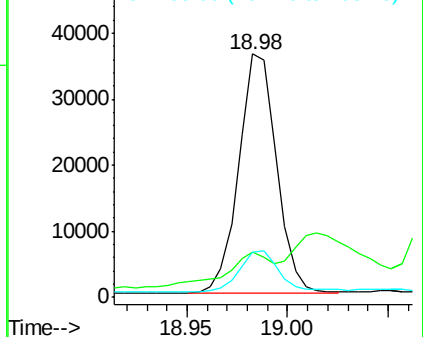
203 18.6 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.10 min Scan# 2865

Delta R.T. -0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

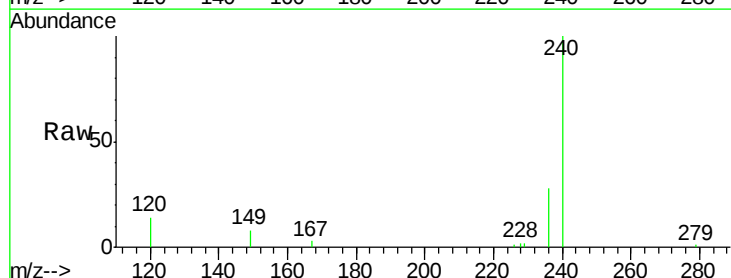
Tgt Ion:240 Resp: 150120

Ion Ratio Lower Upper

240 100

120 14.2 8.3 12.5#

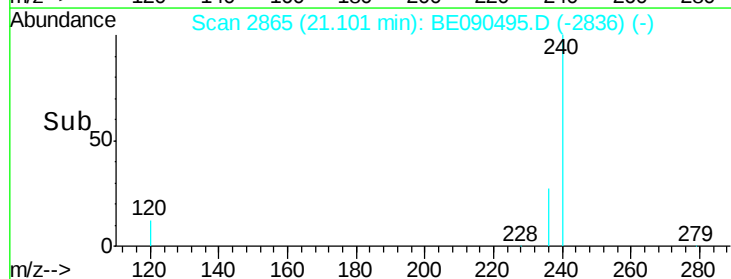
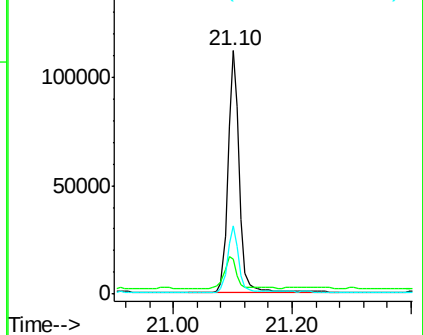
236 27.9 21.0 31.4

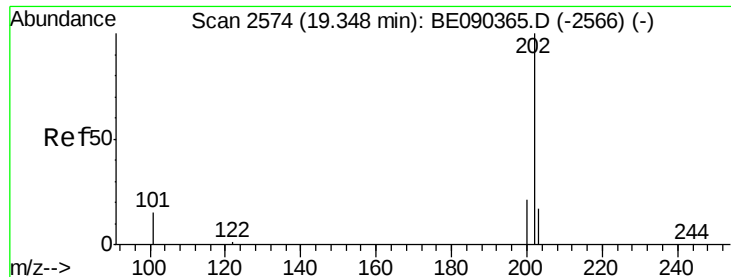


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

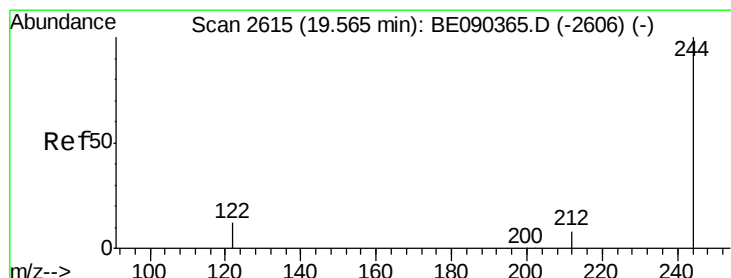
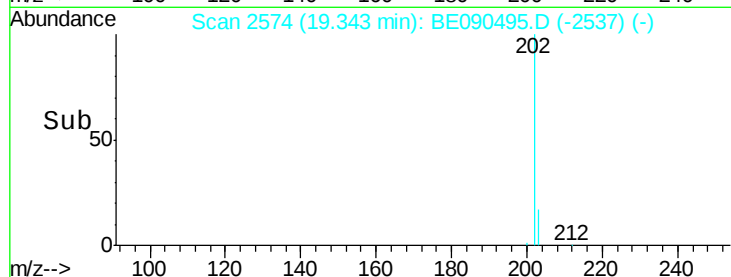
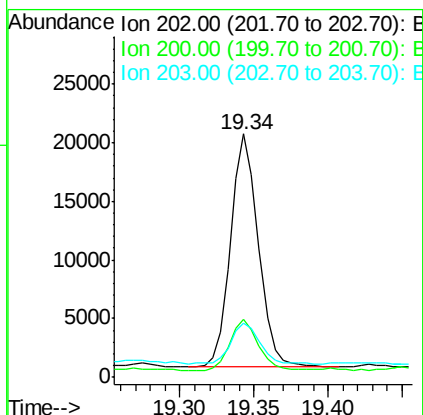
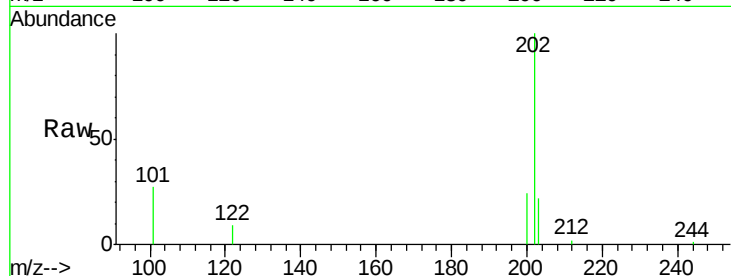




#26
Pvrene
Concen: 0.80 ng
RT: 19.34 min Scan# 2574
Delta R.T. -0.00 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

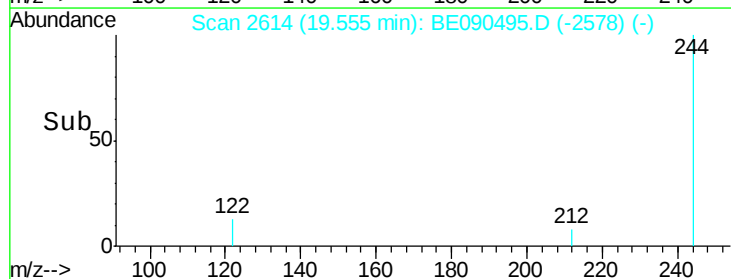
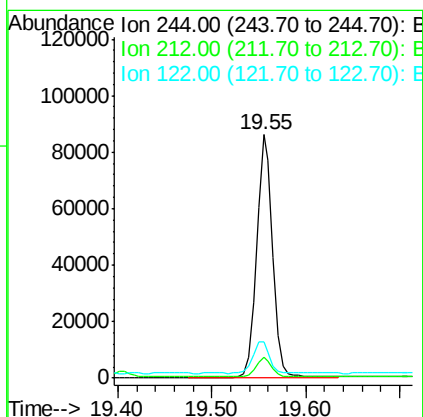
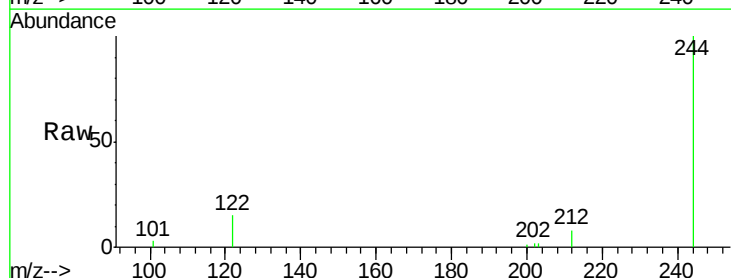
Instrument :
BNA_E
ClientSampleId :

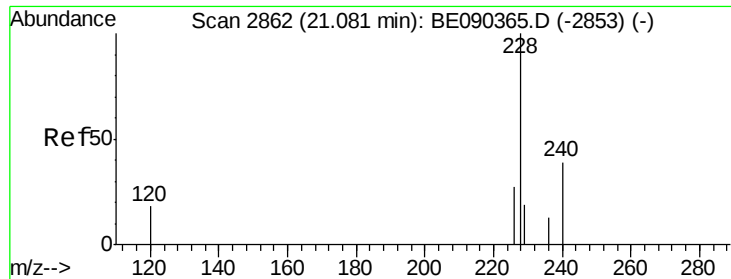
Tot Ion:202 Resp: 26143
Ion Ratio Lower Upper
202 100
200 22.2 16.7 25.1
203 18.4 13.8 20.8



#27
Terphenyl-d14
Concen: 4.67 ng
RT: 19.55 min Scan# 2614
Delta R.T. -0.01 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

Tgt Ion:244 Resp: 103234
Ion Ratio Lower Upper
244 100
212 8.4 6.6 9.8
122 15.1 10.2 15.4

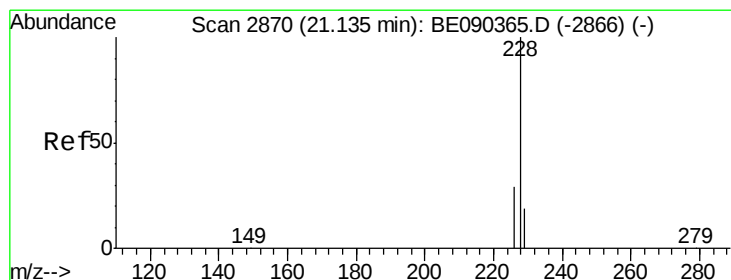
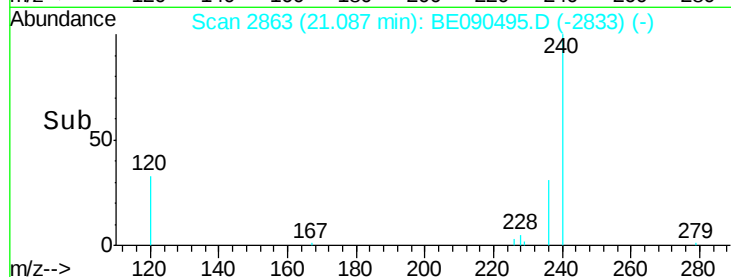
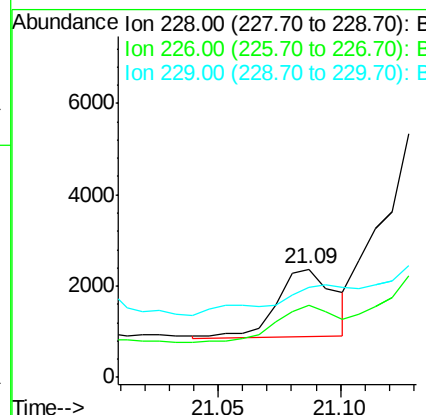
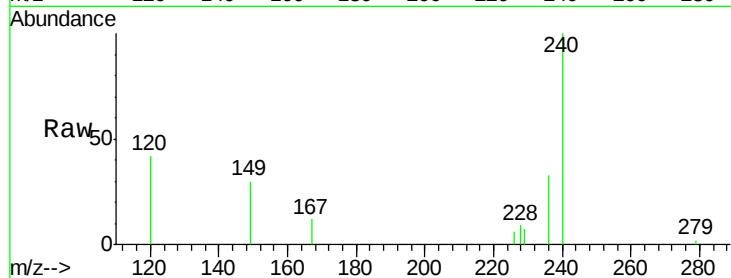




#28
Benzo(a)anthracene
Concen: 0.07 ng
RT: 21.09 min Scan# 2863
Delta R.T. 0.01 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

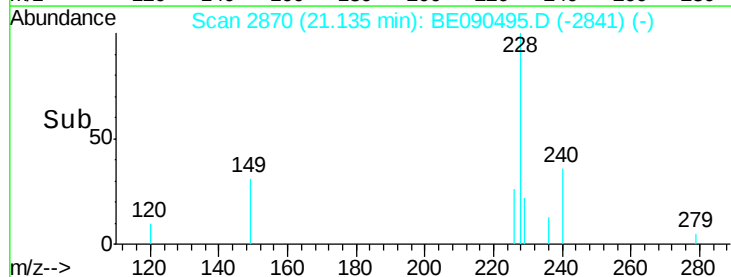
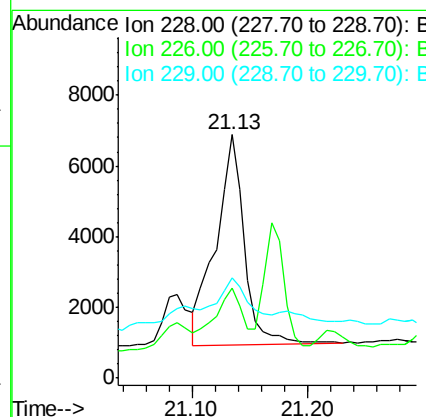
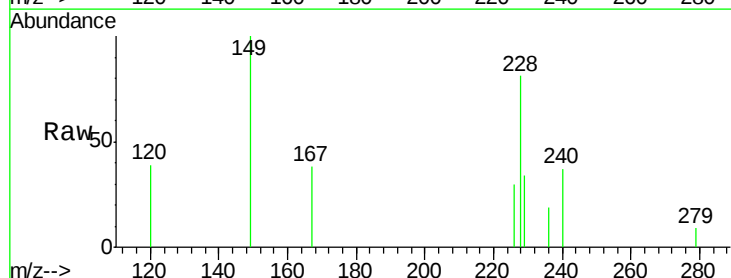
Instrument :
BNA_E
ClientSampleId :

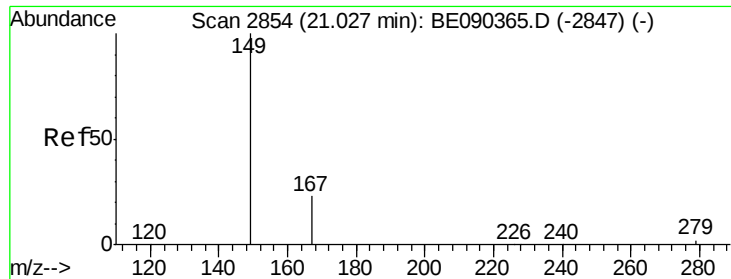
Tot Ion:228 Resp: 2449
Ion Ratio Lower Upper
228 100
226 66.3 21.9 32.9#
229 83.0 15.4 23.0#



#29
Chrysene
Concen: 0.25 ng
RT: 21.13 min Scan# 2870
Delta R.T. -0.00 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

Tgt Ion:228 Resp: 10219
Ion Ratio Lower Upper
228 100
226 37.1 23.1 34.7#
229 41.4 15.8 23.8#





#30

Bis(2-ethylhexyl)phthalate

Concen: 18.60 ng

RT: 21.03 min Scan# 2855

Delta R.T. 0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

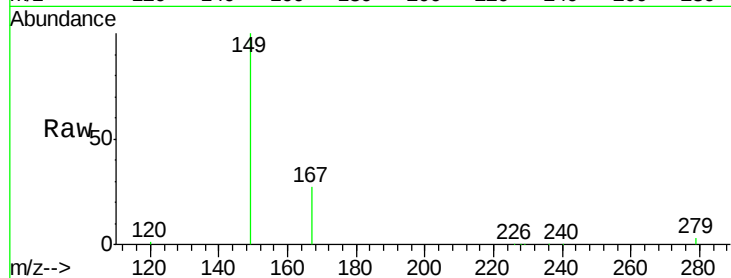
Tot Ion:149 Resp: 461445

Ion Ratio Lower Upper

149 100

167 23.7 19.8 29.8

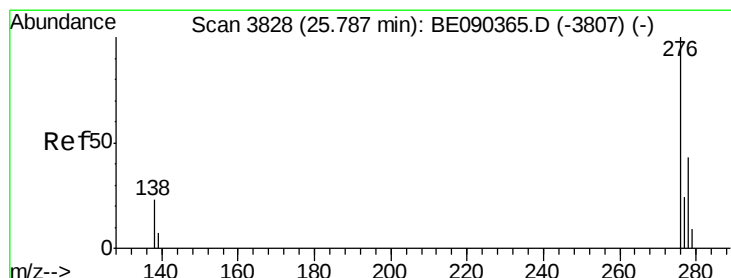
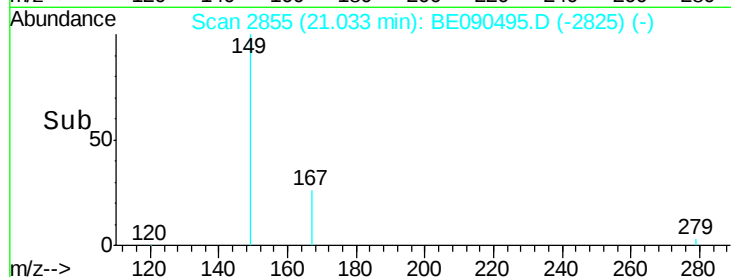
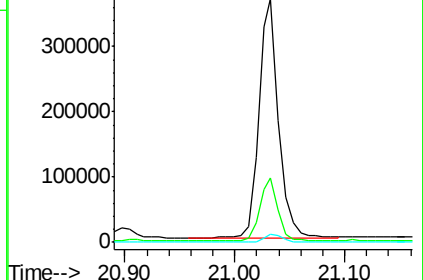
279 3.1 2.4 3.6



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



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.29 ng

RT: 25.78 min Scan# 3827

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

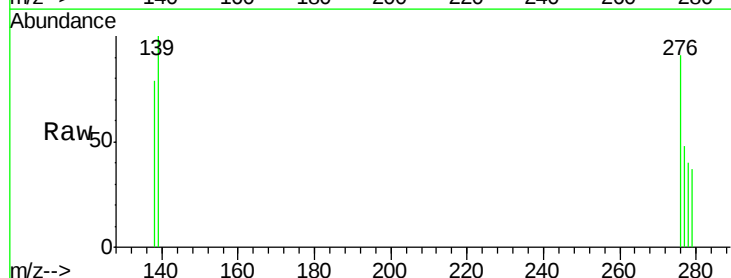
Tgt Ion:276 Resp: 1611

Ion Ratio Lower Upper

276 100

138 30.6 18.8 28.2#

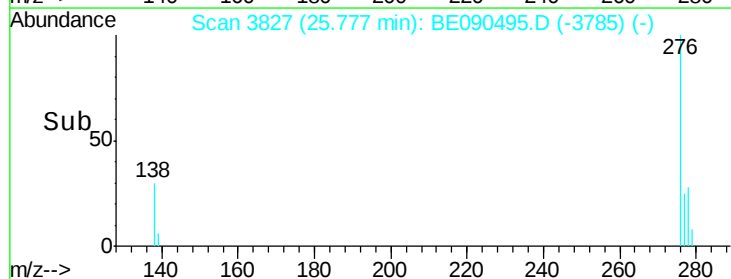
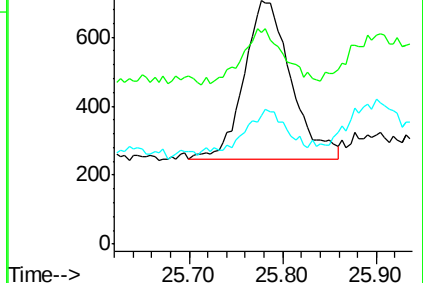
277 20.4 18.2 27.4

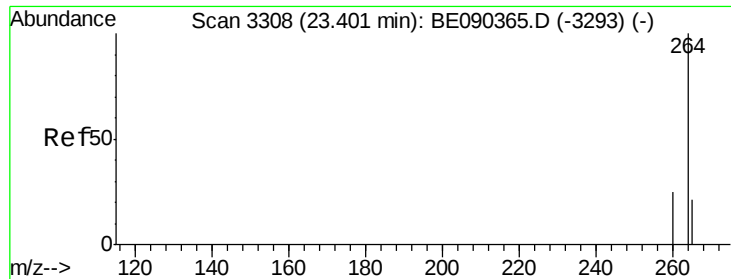


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

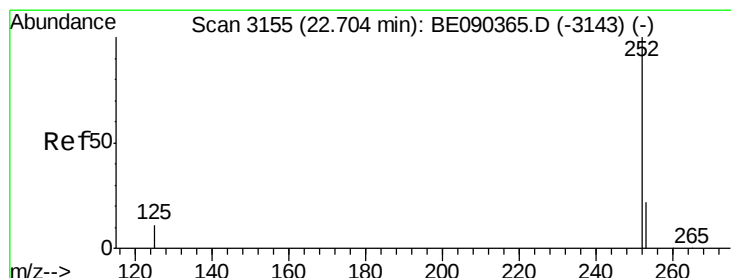
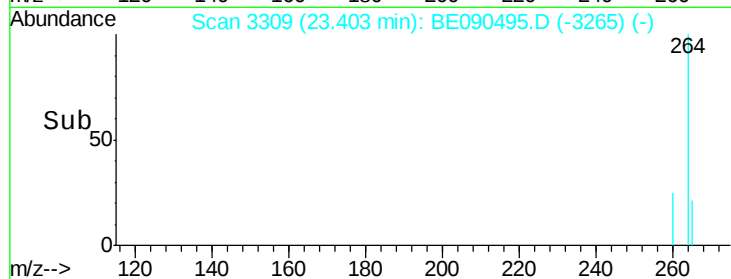
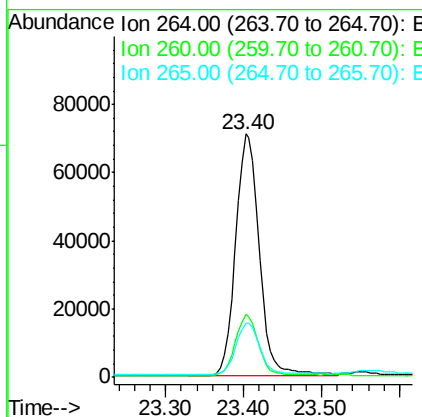
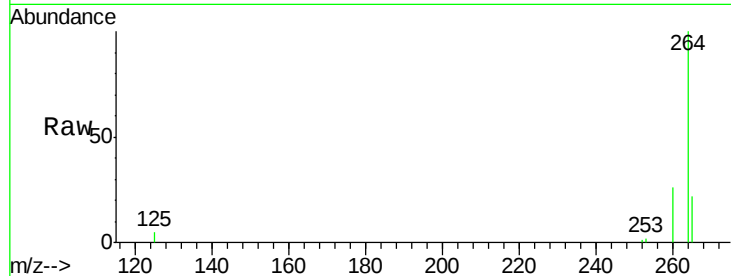




#32
Pervlene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3309
Delta R.T. 0.00 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

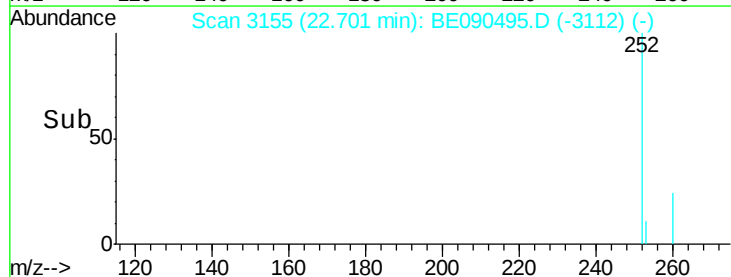
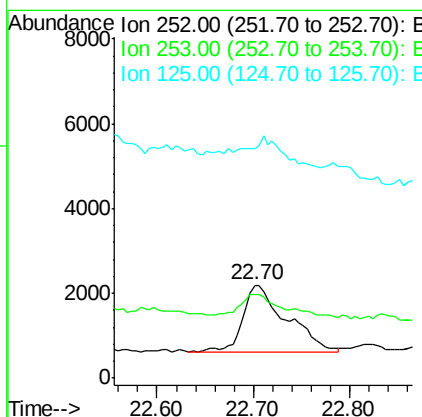
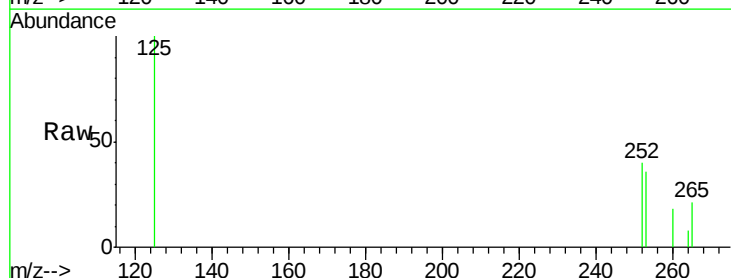
Instrument :
BNA_E
ClientSampleId :

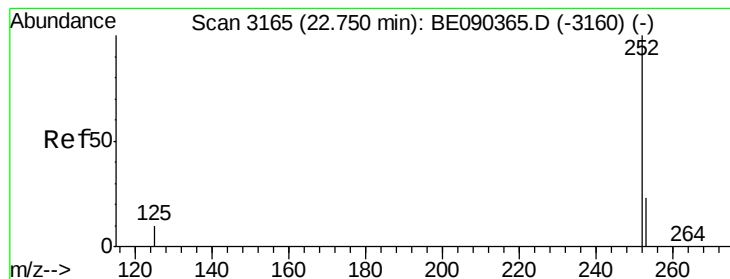
Tot Ion:264 Resp: 150358
Ion Ratio Lower Upper
264 100
260 25.7 20.1 30.1
265 22.4 17.2 25.8



#33
Benzo(b)fluoranthene
Concen: 0.33 ng
RT: 22.70 min Scan# 3155
Delta R.T. -0.00 min
Lab File: BE090495.D
Acq: 13 Aug 2015 8:00

Tgt Ion:252 Resp: 4930
Ion Ratio Lower Upper
252 100
253 89.3 18.1 27.1#
125 246.9 9.4 14.2#





#34

Benzo(k)fluoranthene

Concen: 0.12 ng

RT: 22.70 min Scan# 3155

Delta R.T. -0.05 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampleId :

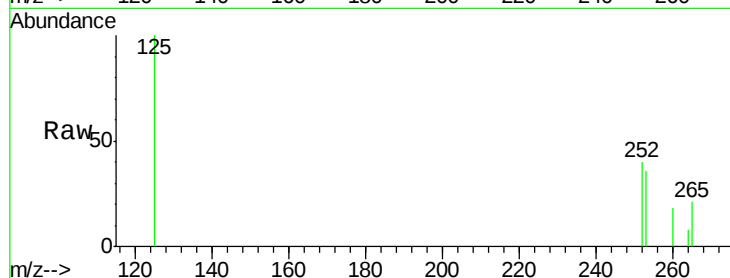
Tot Ion:252 Resp: 4934

Ion Ratio Lower Upper

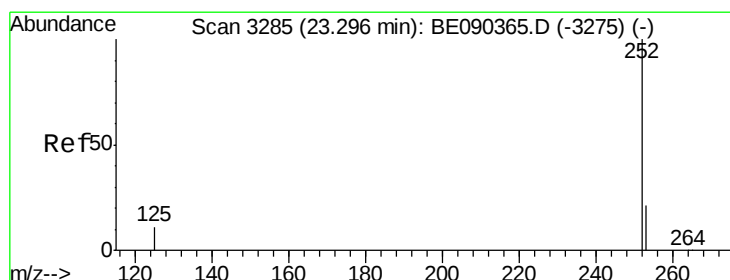
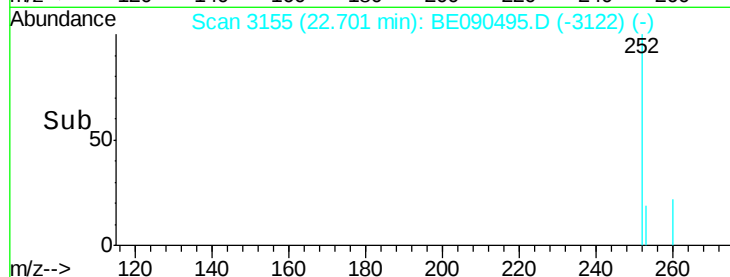
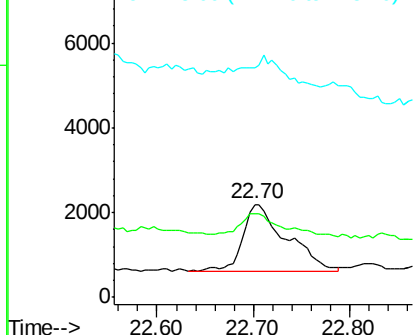
252 100

253 89.3 18.1 27.1#

125 246.9 9.1 13.7#



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



#35

Benzo(a)pyrene

Concen: 0.25 ng

RT: 23.30 min Scan# 3286

Delta R.T. 0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

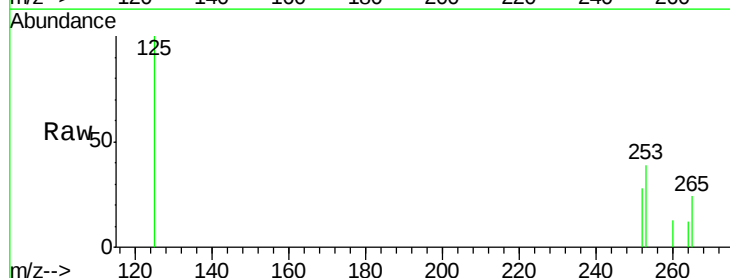
Tgt Ion:252 Resp: 941

Ion Ratio Lower Upper

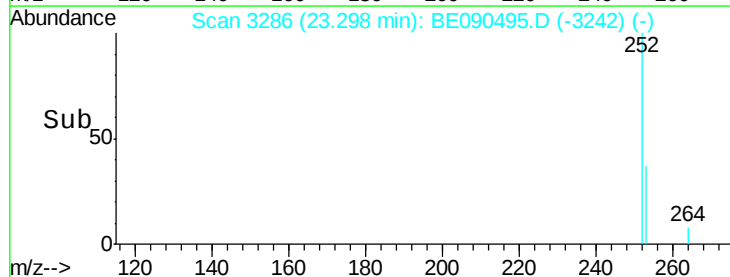
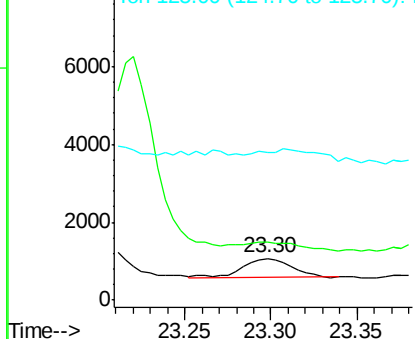
252 100

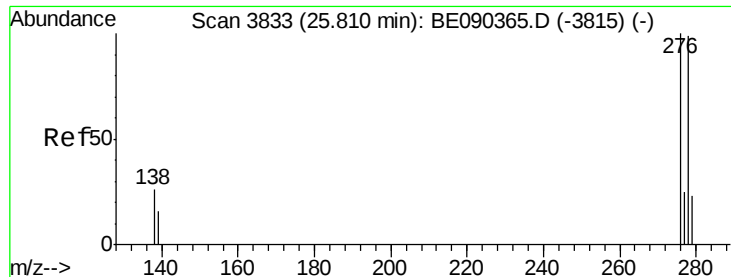
253 139.4 17.6 26.4#

125 355.4 9.8 14.6#



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





#36

Dibenzo(a,h)anthracene

Concen: 0.31 ng

RT: 25.80 min Scan# 3832

Delta R.T. -0.01 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

Instrument :

BNA_E

ClientSampled :

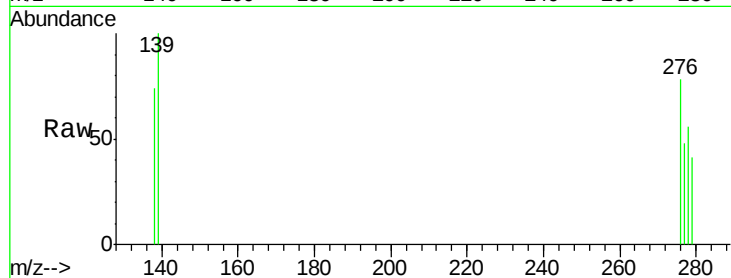
Tot Ion:278 Resp: 879

Ion Ratio Lower Upper

278 100

139 177.8 14.2 21.4#

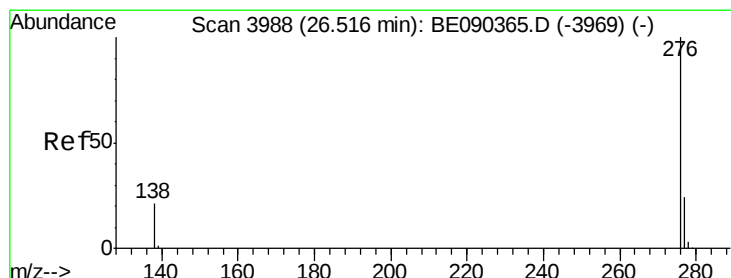
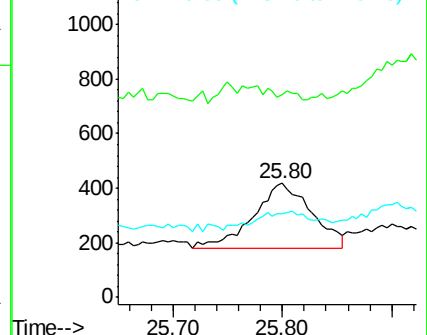
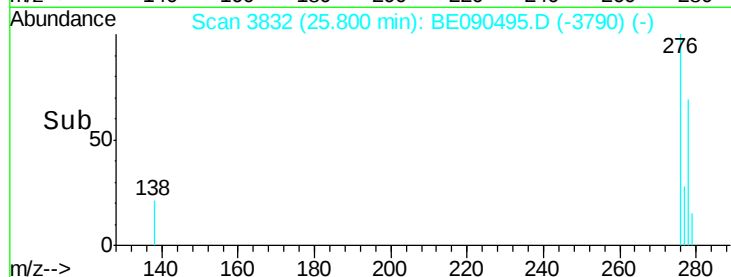
279 73.4 20.1 30.1#



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



#37

Benzo(g,h,i)perylene

Concen: 0.06 ng

RT: 26.52 min Scan# 3989

Delta R.T. -0.00 min

Lab File: BE090495.D

Acq: 13 Aug 2015 8:00

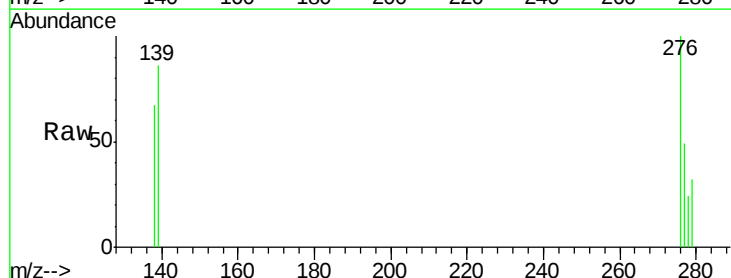
Tgt Ion:276 Resp: 1776

Ion Ratio Lower Upper

276 100

277 49.4 20.1 30.1#

138 67.4 18.1 27.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

