

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089547.D
 Acq On : 7 Feb 2015 5:29
 Operator : TP/IZ
 Sample : G1243-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-4

Quant Time: Feb 07 06:16:10 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	34899	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	134790	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	57395	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	111129	5.00	ng	0.00
16) Chrysene-d12	23.72	240	126442	5.00	ng	0.00
22) Perylene-d12	25.41	264	129353	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	84821	9.48	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	138901	9.07	ng	0.00
18) Terphenyl-d14	22.36	244	169870	10.18	ng	0.00

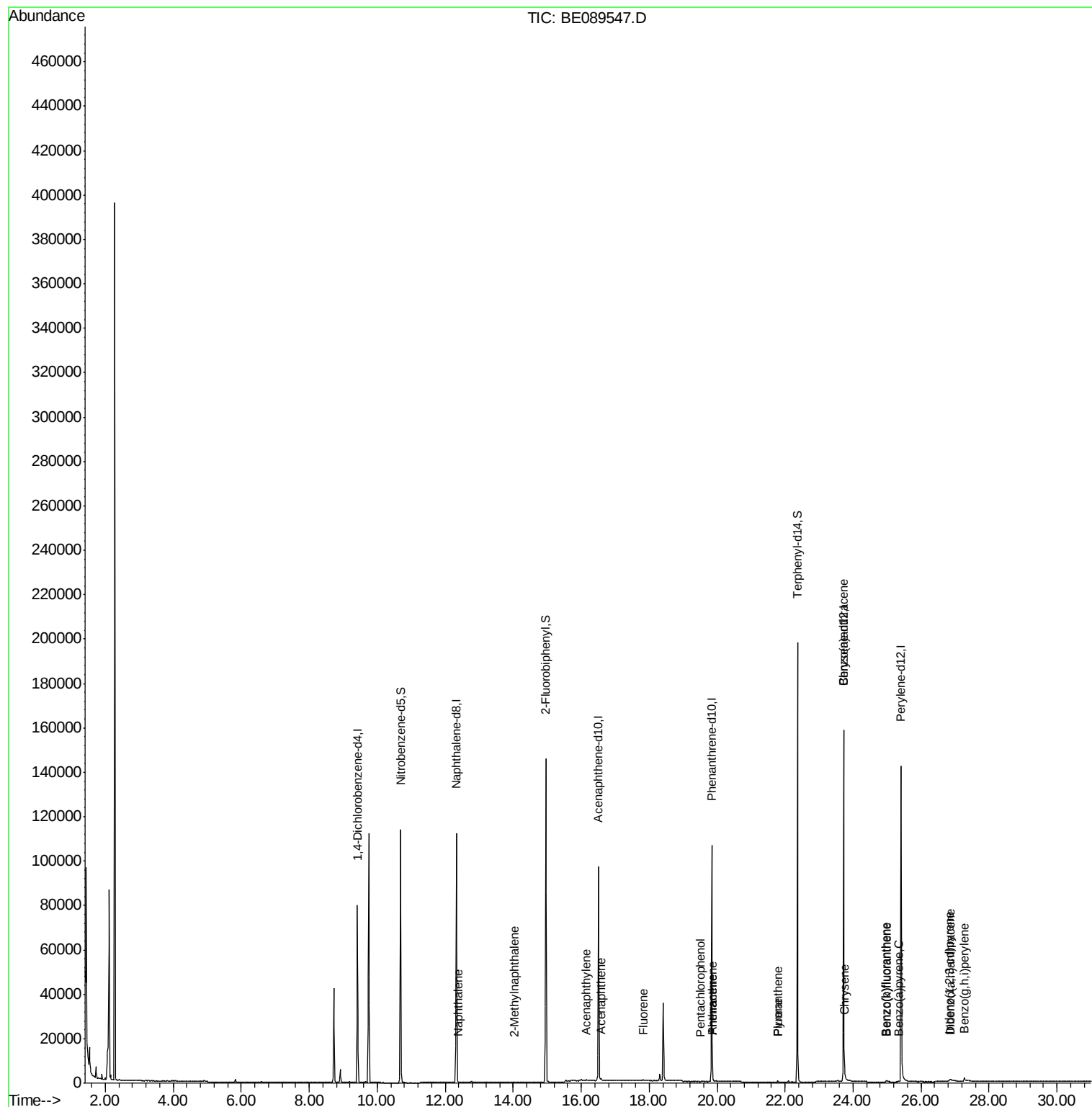
Target Compounds						Qvalue
4) Naphthalene	12.38	128	627	0.02	ng	# 77
5) 2-Methylnaphthalene	14.03	142	181	0.01	ng	# 81
8) Acenaphthylene	16.16	152	758	0.01	ng	# 92
9) Acenaphthene	16.59	154	166	0.01	ng	# 36
10) Fluorene	17.84	166	190	0.01	ng	# 68
12) Pentachlorophenol	19.51	266	7	0.54	ng	# 73
13) Phenanthrene	19.89	178	679	0.02	ng	97
14) Anthracene	19.89	178	679	0.03	ng	95
15) Fluoranthene	21.78	202	627	0.02	ng	# 94
17) Pyrene	21.78	202	627	0.02	ng	96
19) Benzo(a)anthracene	23.71	228	4141	0.04	ng	# 90
20) Chrysene	23.75	228	3493	0.03	ng	# 84
21) Indeno(1,2,3-cd)pyrene	26.85	276	2250	0.01	ng	94
23) Benzo(b)fluoranthene	24.97	252	525	0.02	ng	# 66
24) Benzo(k)fluoranthene	25.00	252	638	0.02	ng	# 66
25) Benzo(a)pyrene	25.34	252	477	0.02	ng	# 53
26) Dibenzo(a,h)anthracene	26.87	278	356	0.01	ng	# 43
27) Benzo(g,h,i)perylene	27.27	276	3376	0.03	ng	# 63

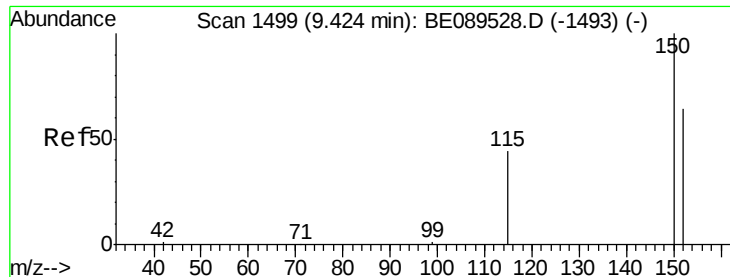
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampled :

MW-4

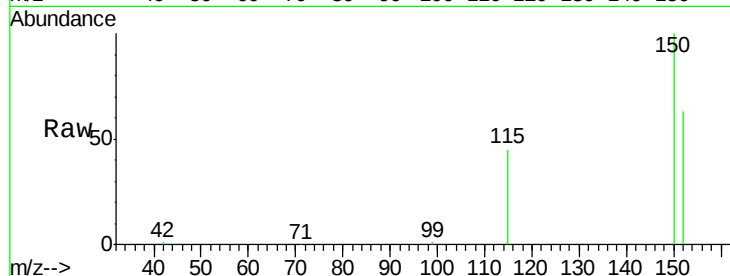
Tgt Ion:152 Resp: 34899

Ion Ratio Lower Upper

152 100

150 159.9 125.7 188.5

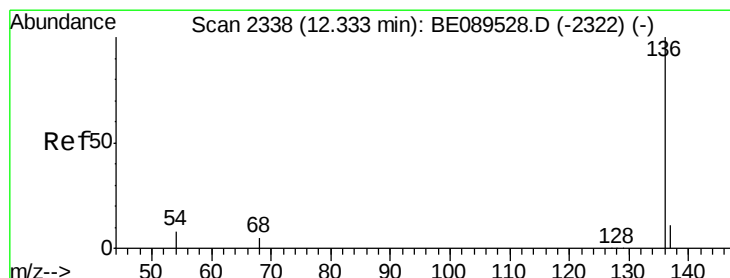
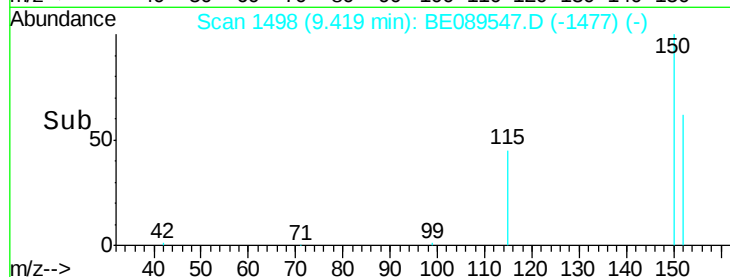
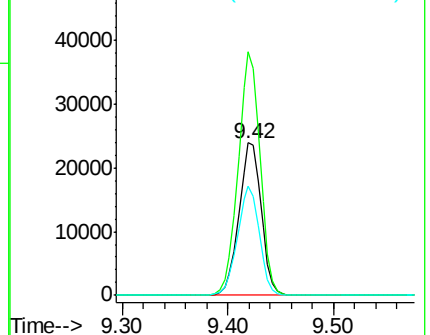
115 71.4 55.6 83.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

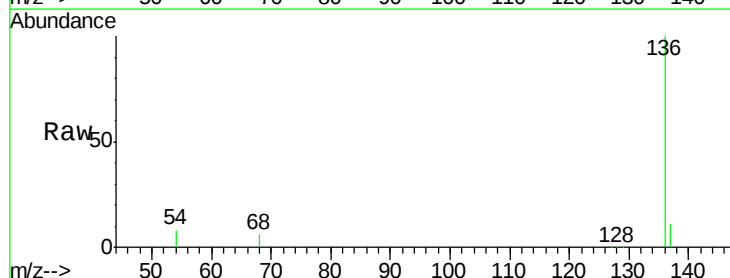
Tgt Ion:136 Resp: 134790

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

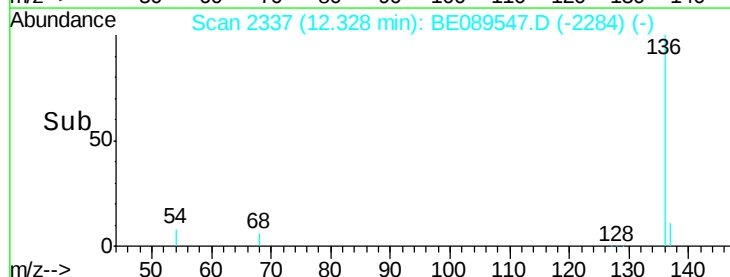
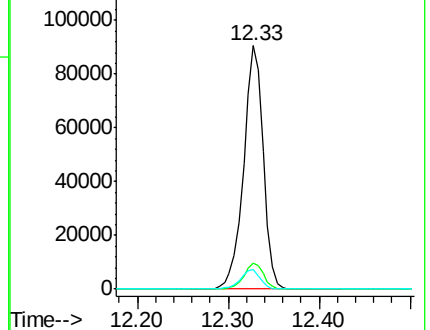
54 7.8 6.1 9.1

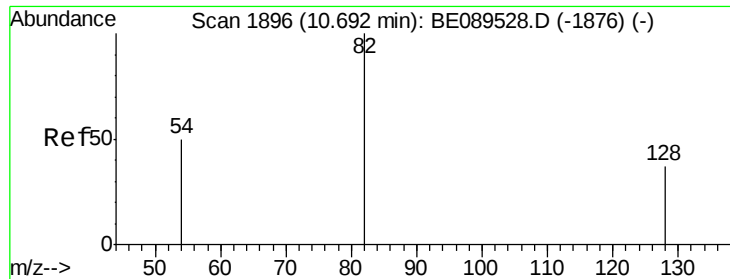


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 9.48 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

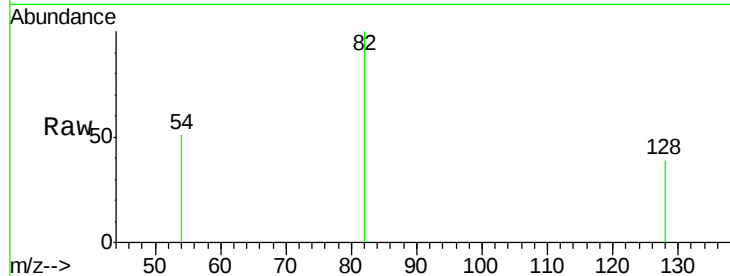
Tgt Ion: 82 Resp: 84821

Ion Ratio Lower Upper

82 100

128 38.9 30.2 45.4

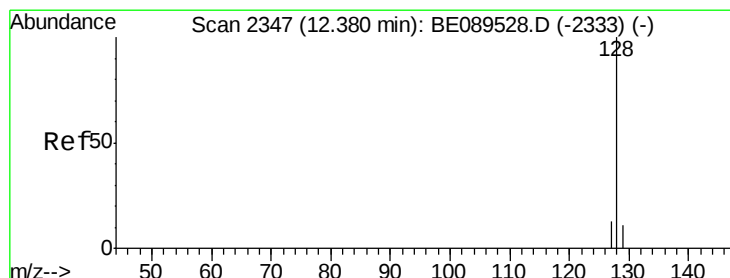
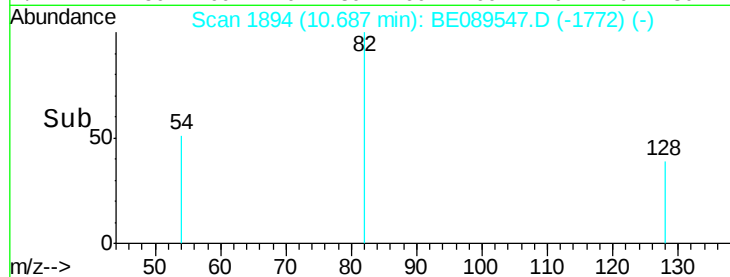
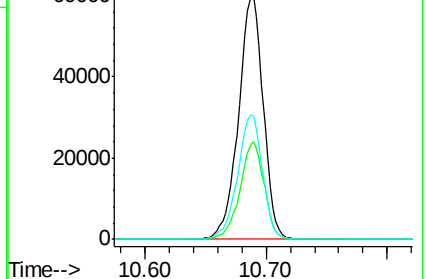
54 51.3 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089528.D (-1876) (-)

Ion 128.00 (127.70 to 128.70): BE089528.D (-1876) (-)

Ion 54.00 (53.70 to 54.70): BE089528.D (-1876) (-)



#4

Naphthalene

Concen: 0.02 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

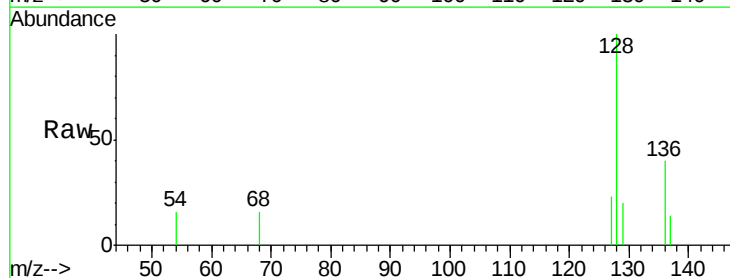
Tgt Ion: 128 Resp: 627

Ion Ratio Lower Upper

128 100

129 19.6 9.1 13.7#

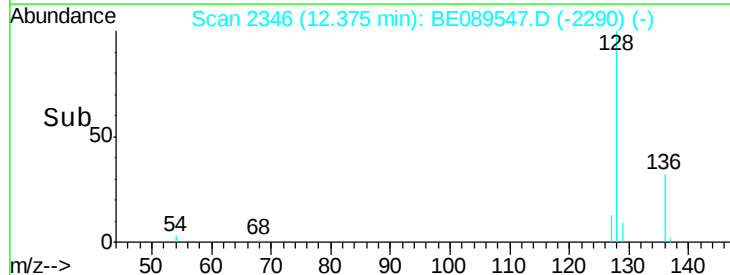
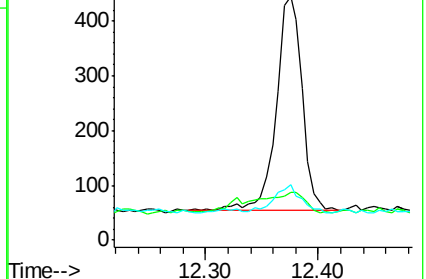
127 22.7 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

Ion 129.00 (128.70 to 129.70): BE089528.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): BE089528.D (-2333) (-)





#5

2-Methylnaphthalene

Concen: 0.01 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

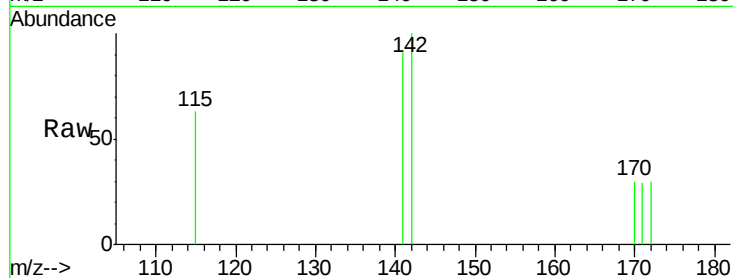
Tgt Ion:142 Resp: 181

Ion Ratio Lower Upper

142 100

141 91.5 67.0 100.6

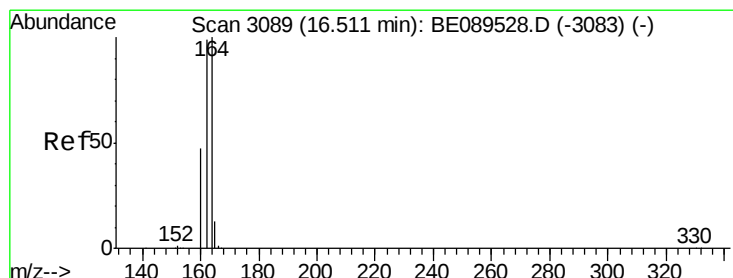
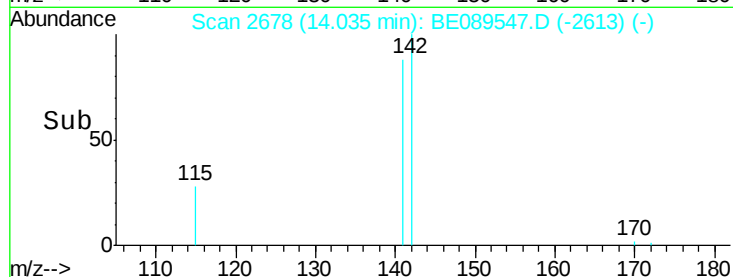
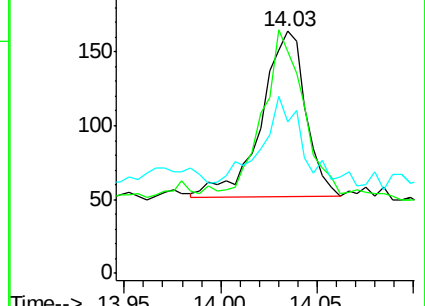
115 62.8 30.6 45.8#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

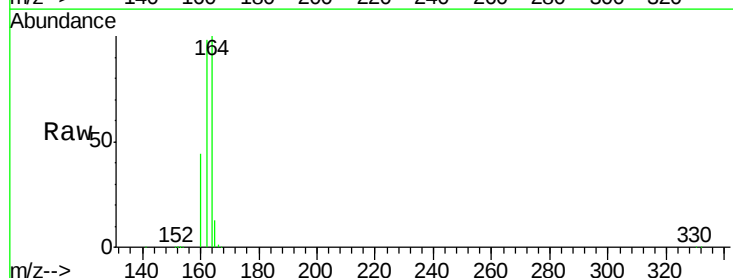
Tgt Ion:164 Resp: 57395

Ion Ratio Lower Upper

164 100

162 97.6 79.5 119.3

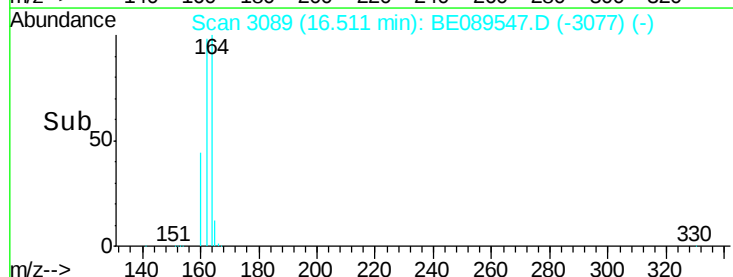
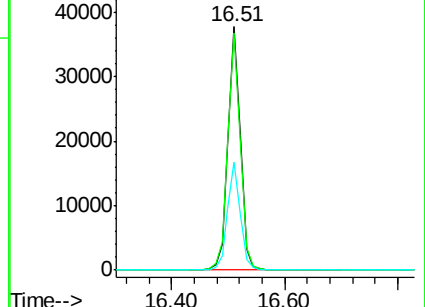
160 44.3 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 9.07 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

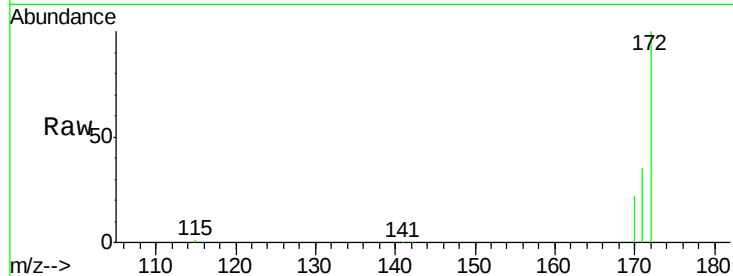
Tgt Ion:172 Resp: 138901

Ion Ratio Lower Upper

172 100

171 34.5 27.7 41.5

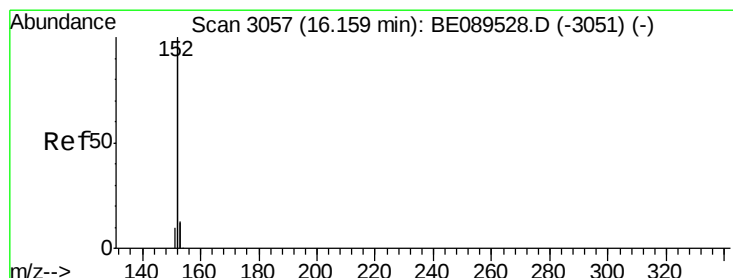
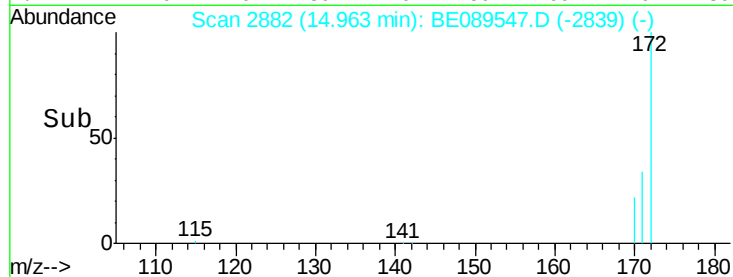
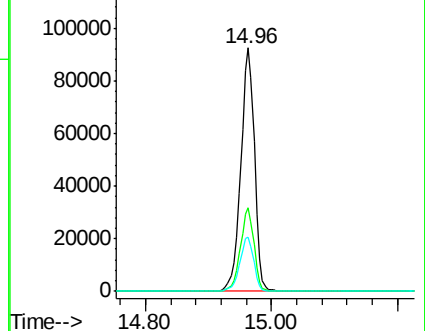
170 22.4 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.01 ng

RT: 16.16 min Scan# 3057

Delta R.T. 0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

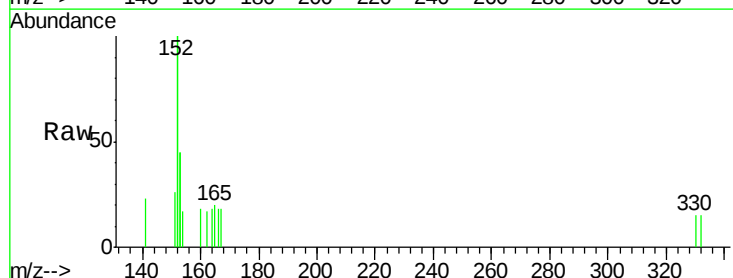
Tgt Ion:152 Resp: 758

Ion Ratio Lower Upper

152 100

151 4.7 4.0 6.0

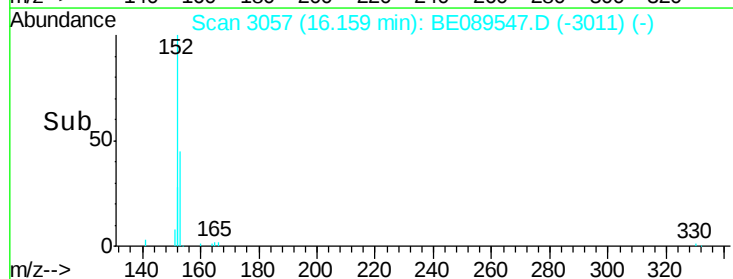
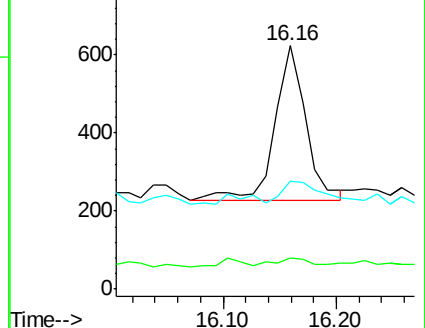
153 17.7 10.6 15.8#

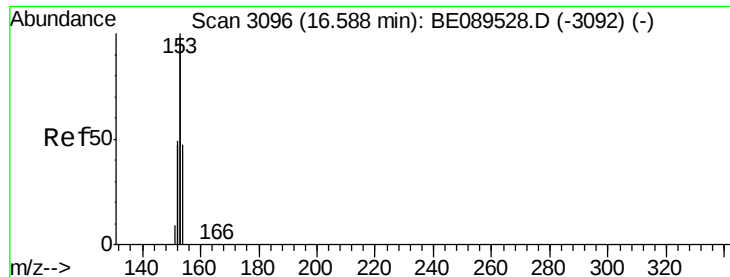


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.01 ng

RT: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

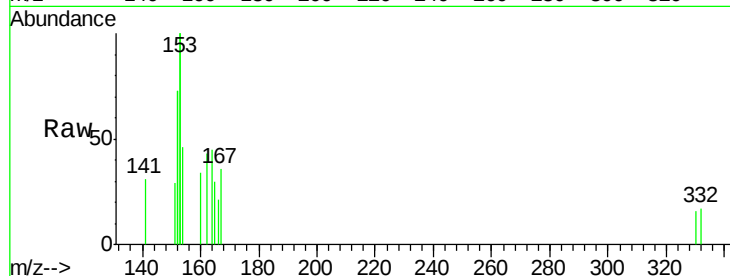
Tgt Ion:154 Resp: 166

Ion Ratio Lower Upper

154 100

153 426.5 340.8 511.2

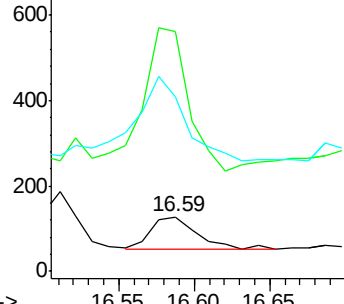
152 509.6 165.5 248.3#



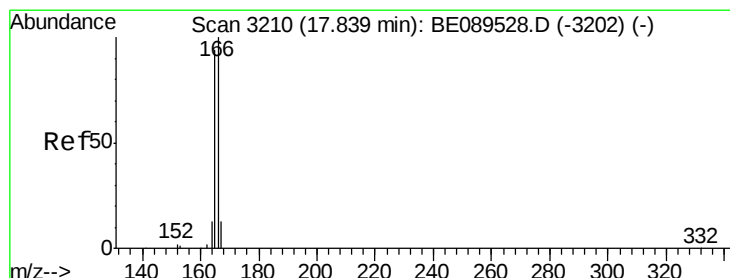
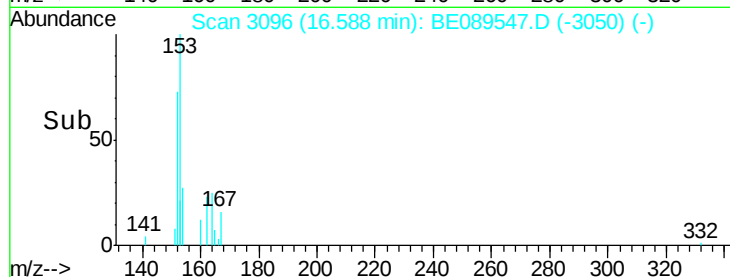
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#10

Fluorene

Concen: 0.01 ng

RT: 17.84 min Scan# 3210

Delta R.T. 0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

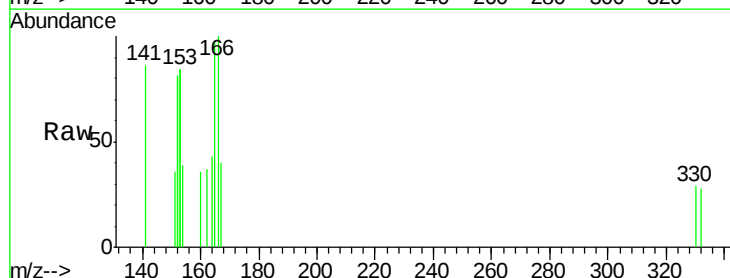
Tgt Ion:166 Resp: 190

Ion Ratio Lower Upper

166 100

165 126.3 75.5 113.3#

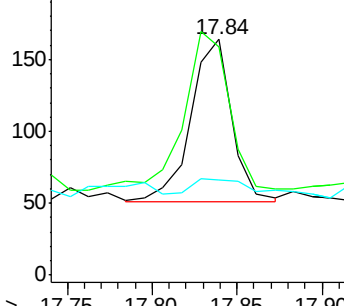
167 23.7 10.9 16.3#



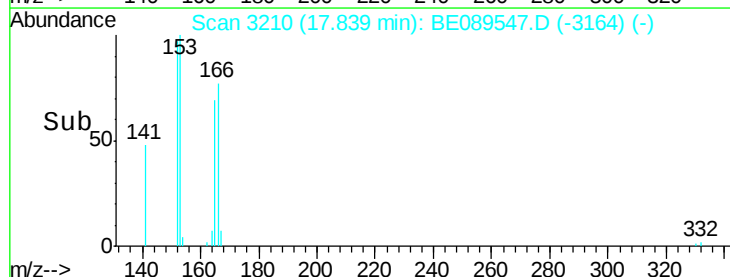
Abundance Ion 166.00 (165.70 to 166.70): E

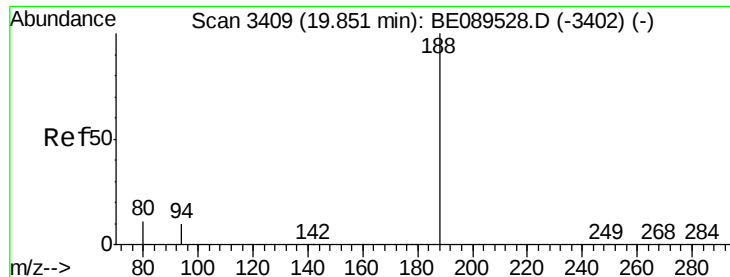
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.84 min Scan# 3408

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

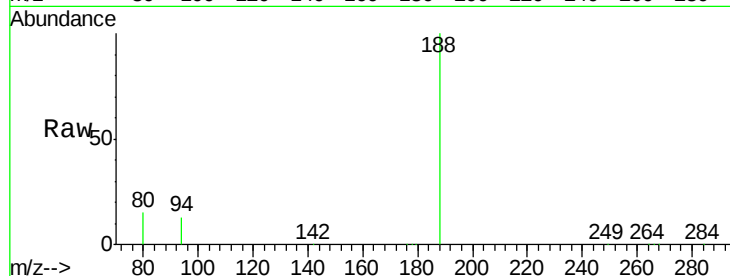
Tgt Ion:188 Resp: 111129

Ion Ratio Lower Upper

188 100

94 13.3 8.4 12.6#

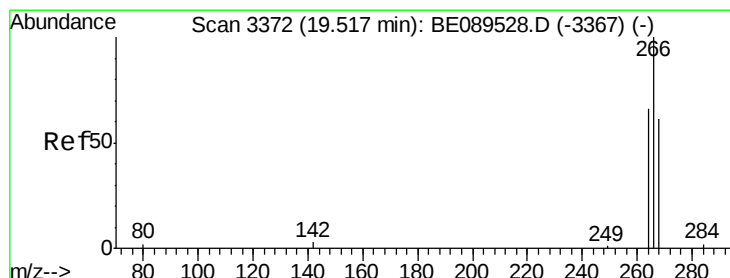
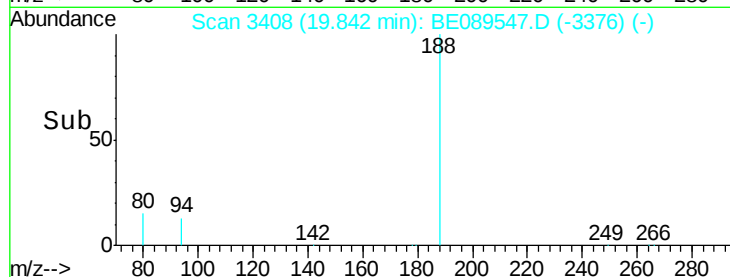
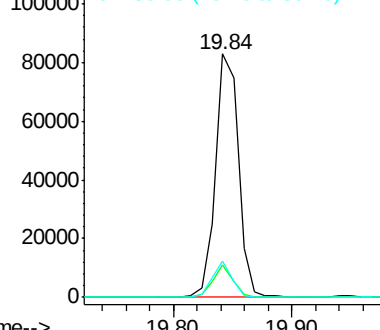
80 14.8 8.6 12.8#



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



#12

Pentachlorophenol

Concen: 0.54 ng

RT: 19.51 min Scan# 3371

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

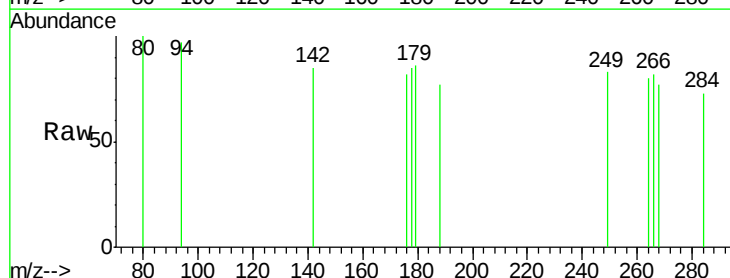
Tgt Ion:266 Resp: 7

Ion Ratio Lower Upper

266 100

268 94.4 57.9 86.9#

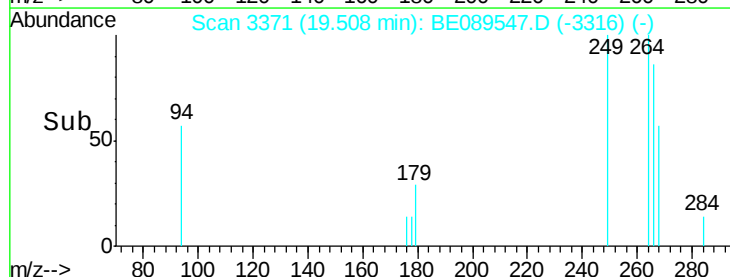
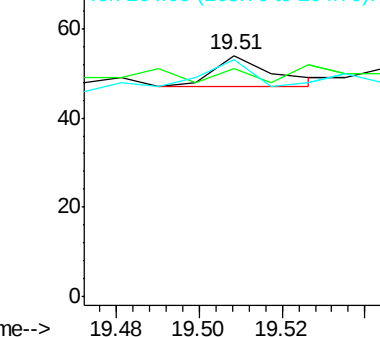
264 98.1 60.2 90.4#

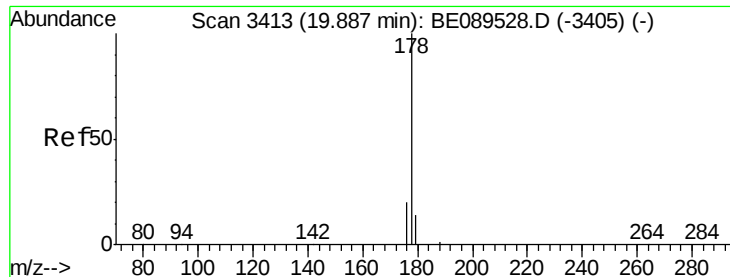


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.02 ng

RT: 19.89 min Scan# 3413

Delta R.T. 0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

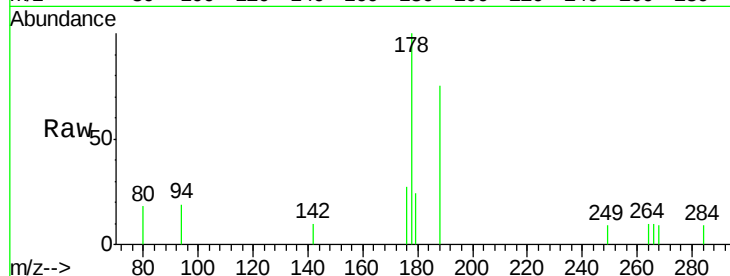
Tgt Ion:178 Resp: 679

Ion Ratio Lower Upper

178 100

176 21.4 15.4 23.0

179 14.9 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

19.89

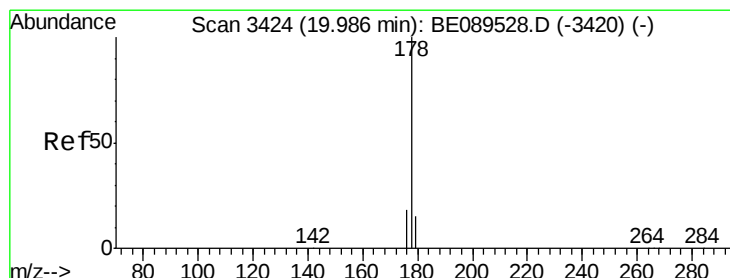
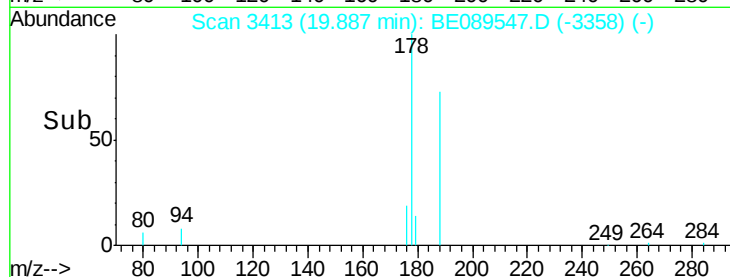
400

200

0

19.80 19.85 19.90 19.95

Time-->



#14

Anthracene

Concen: 0.03 ng

RT: 19.89 min Scan# 3413

Delta R.T. -0.10 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

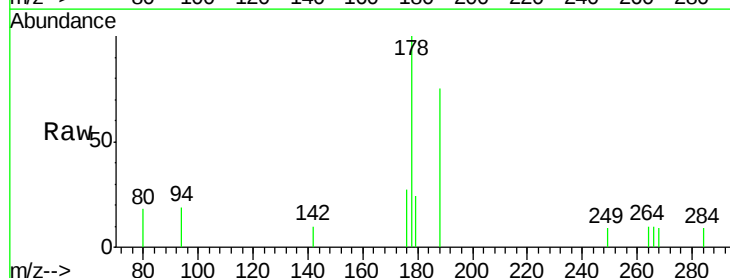
Tgt Ion:178 Resp: 679

Ion Ratio Lower Upper

178 100

176 21.4 14.5 21.7

179 14.6 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

19.89

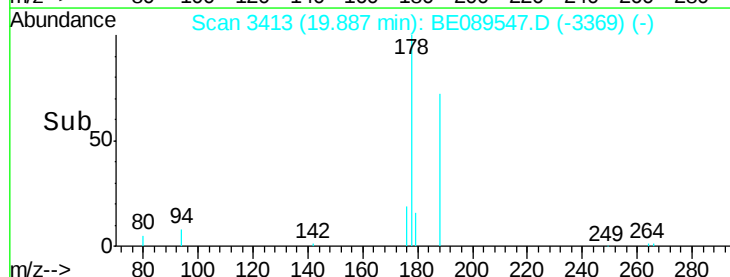
400

200

0

19.80 19.85 19.90 19.95

Time-->

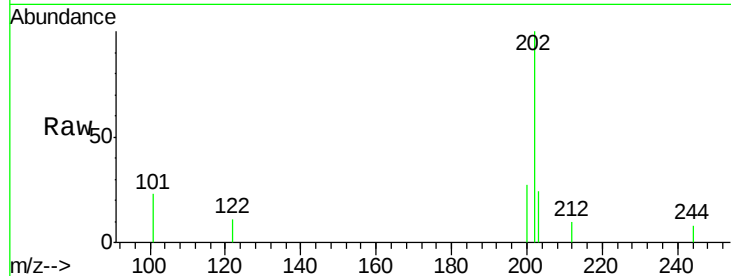




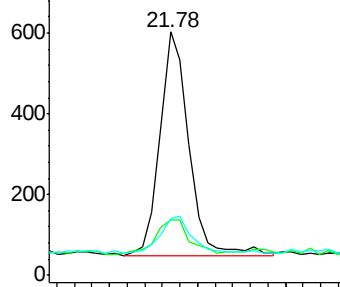
#15
 Fluoranthene
 Concen: 0.02 ng
 RT: 21.78 min Scan# 3704
 Delta R.T. -0.01 min
 Lab File: BE089547.D
 Acq: 7 Feb 2015 5:29

Instrument :
 BNA_E
 ClientSampleId :
 MW-4

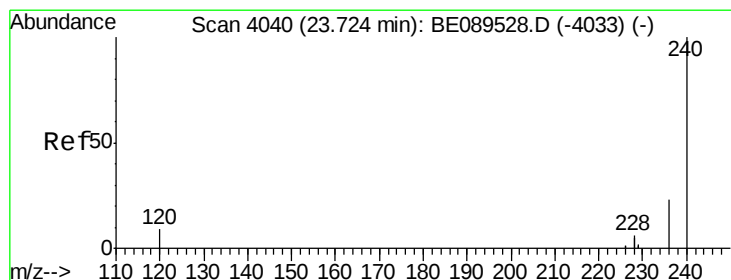
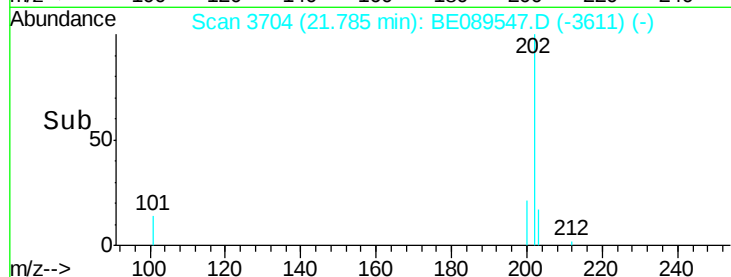
Tgt Ion: 202 Resp: 627
 Ion Ratio Lower Upper
 202 100
 101 17.7 11.6 17.4#
 203 18.8 13.6 20.4



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

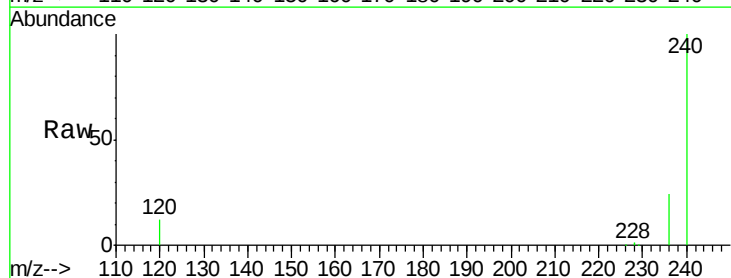


Time-->

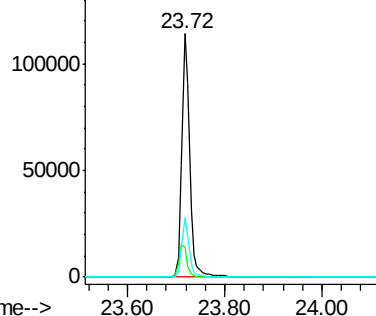


#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089547.D
 Acq: 7 Feb 2015 5:29

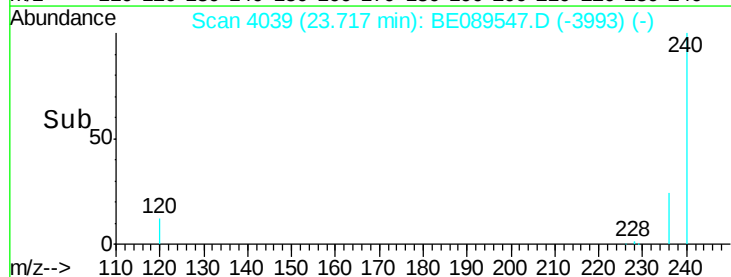
Tgt Ion: 240 Resp: 126442
 Ion Ratio Lower Upper
 240 100
 120 12.0 7.2 10.8#
 236 24.4 18.5 27.7

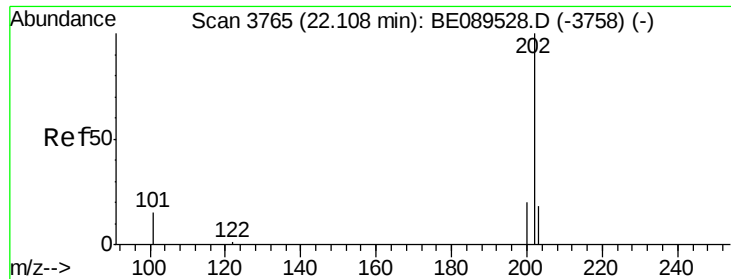


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E



Time-->

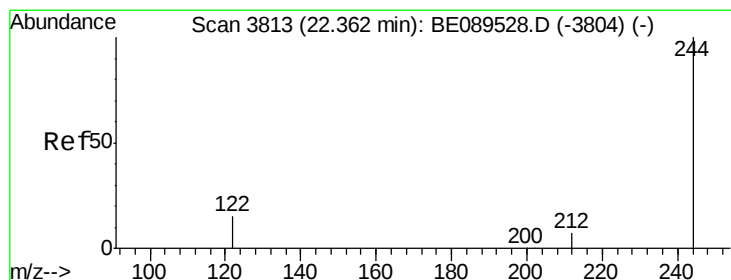
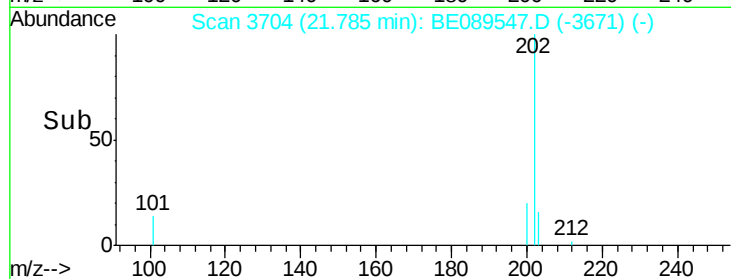
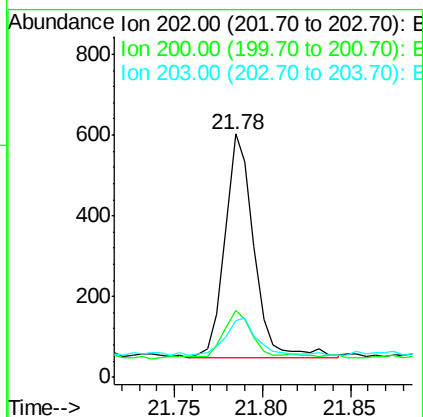
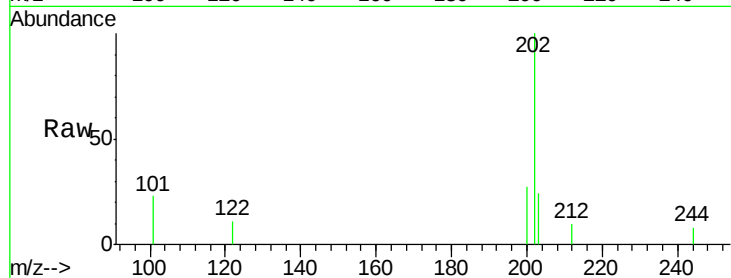




#17
 Pyrene
 Concen: 0.02 ng
 RT: 21.78 min Scan# 3704
 Delta R.T. -0.32 min
 Lab File: BE089547.D
 Acq: 7 Feb 2015 5:29

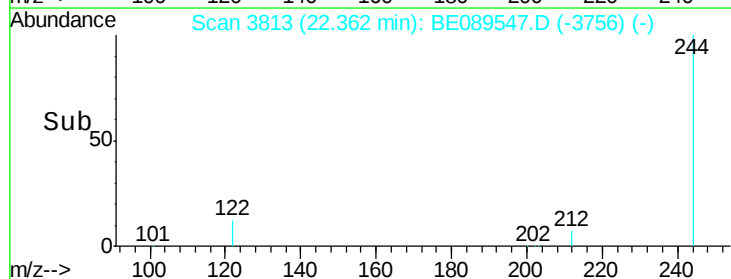
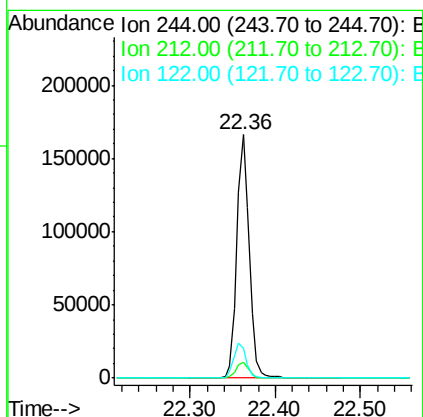
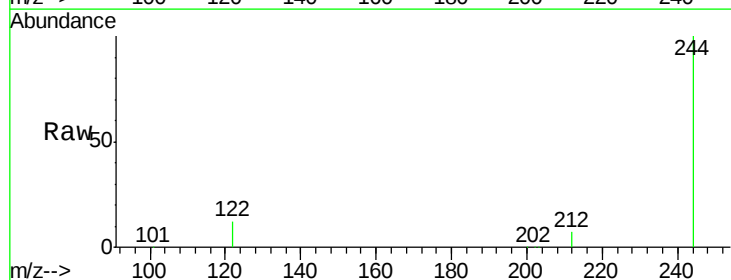
Instrument :
 BNA_E
 ClientSampleId :
 MW-4

Tgt Ion: 202 Resp: 627
 Ion Ratio Lower Upper
 202 100
 200 19.1 16.3 24.5
 203 18.8 13.5 20.3



#18
 Terphenyl-d14
 Concen: 10.18 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. 0.00 min
 Lab File: BE089547.D
 Acq: 7 Feb 2015 5:29

Tgt Ion: 244 Resp: 169870
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.8
 122 12.1 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 0.04 ng

RT: 23.71 min Scan# 4038

Delta R.T. 0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

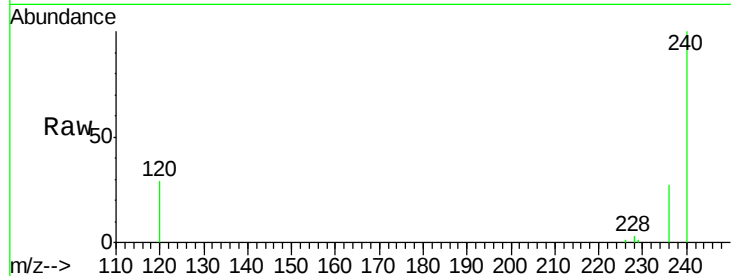
Tgt Ion:228 Resp: 4141

Ion Ratio Lower Upper

228 100

226 24.8 19.0 28.4

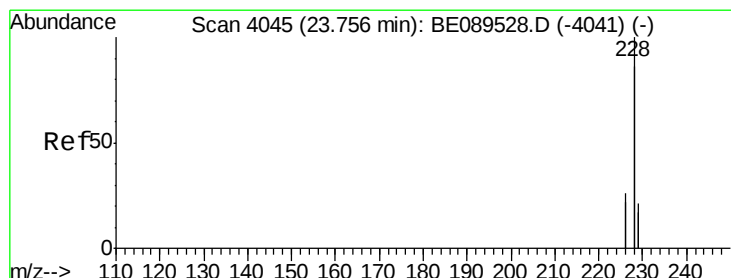
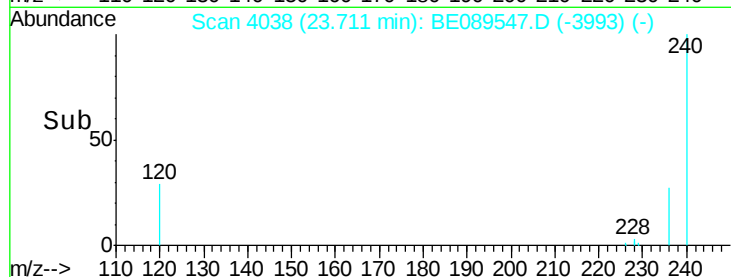
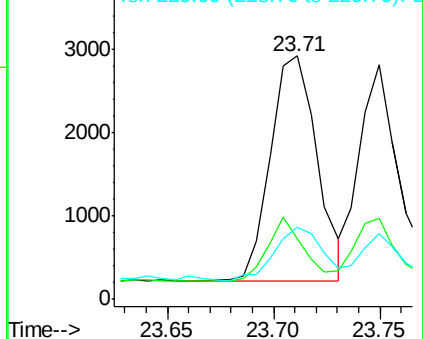
229 29.5 16.8 25.2#



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



#20

Chrysene

Concen: 0.03 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

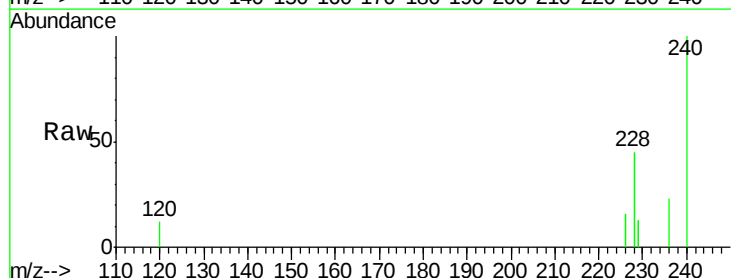
Tgt Ion:228 Resp: 3493

Ion Ratio Lower Upper

228 100

226 34.6 21.0 31.4#

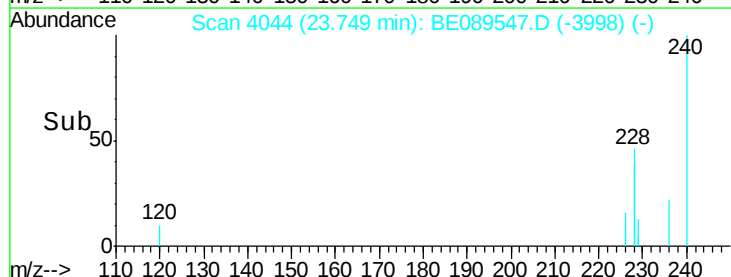
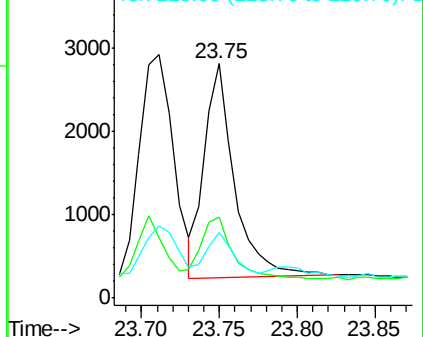
229 27.8 16.7 25.1#

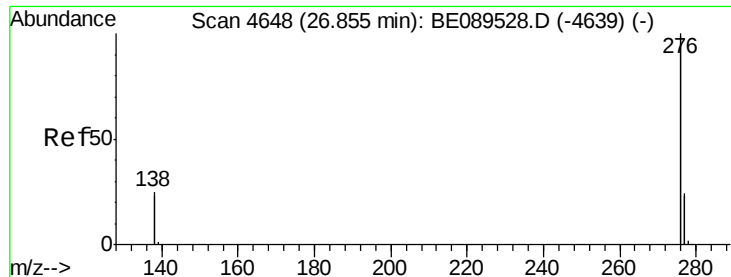


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.01 ng

RT: 26.85 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

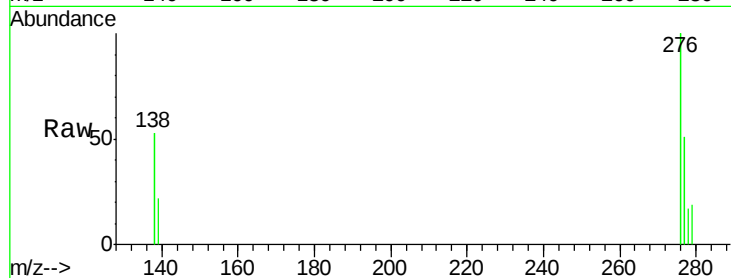
Tgt Ion: 276 Resp: 2250

Ion Ratio Lower Upper

276 100

138 27.1 23.0 34.4

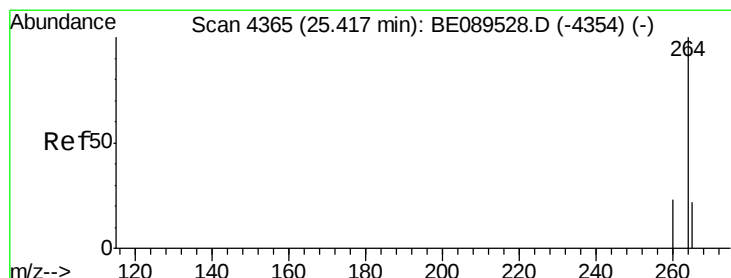
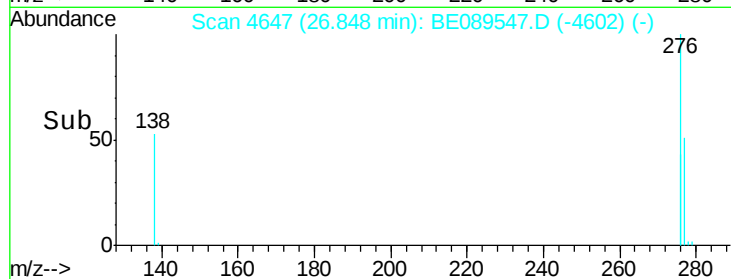
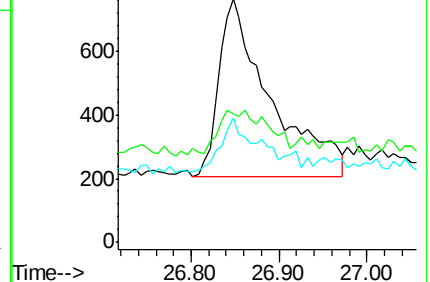
277 20.7 19.9 29.9



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

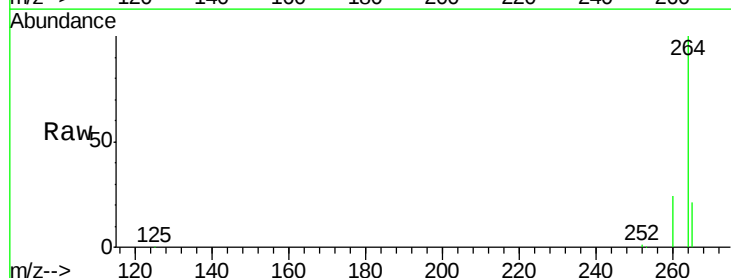
Tgt Ion: 264 Resp: 129353

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

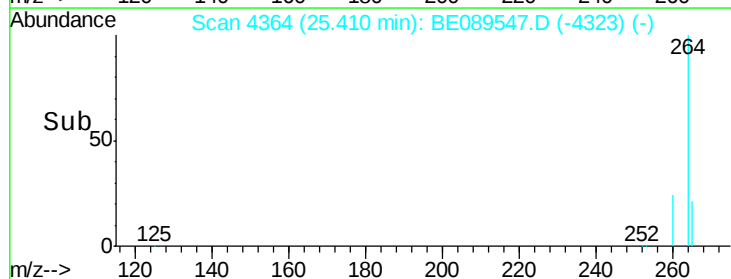
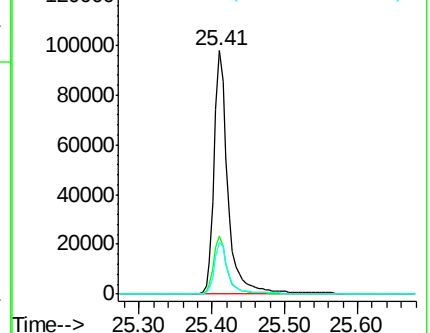
265 21.1 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.02 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

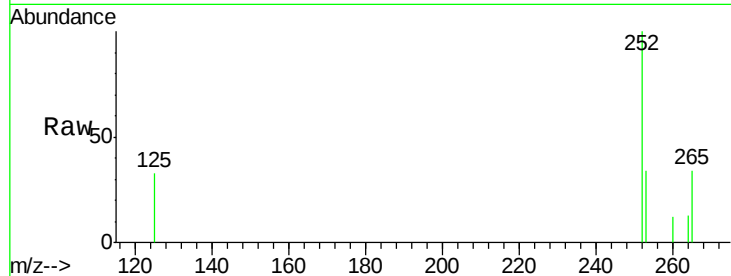
Tgt Ion:252 Resp: 525

Ion Ratio Lower Upper

252 100

253 33.8 17.4 26.0#

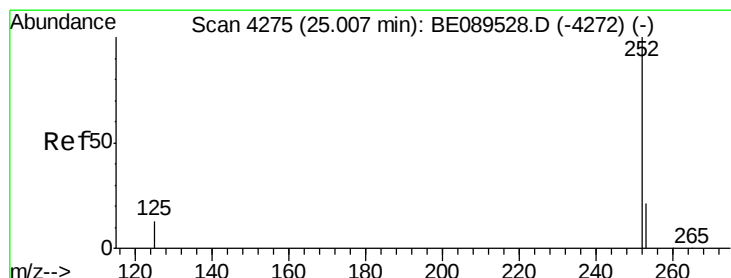
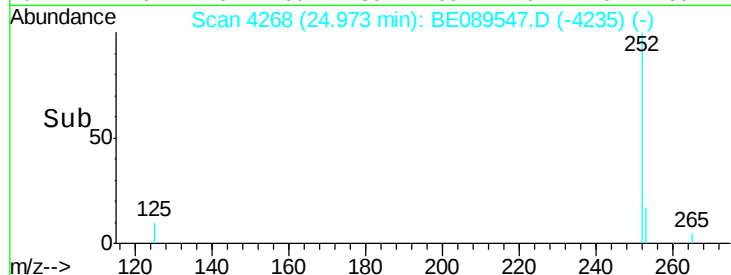
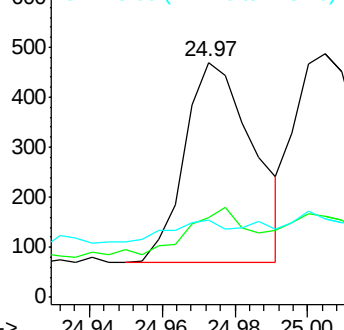
125 32.6 10.4 15.6#



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



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 25.00 min Scan# 4275

Delta R.T. -0.00 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

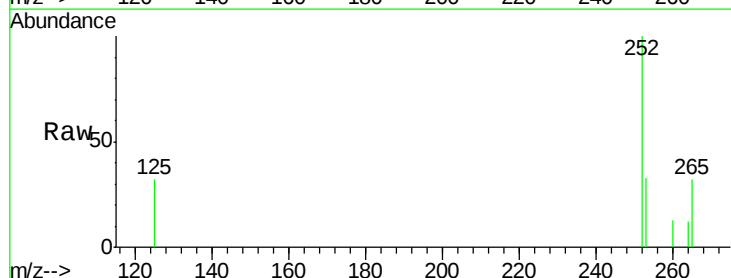
Tgt Ion:252 Resp: 638

Ion Ratio Lower Upper

252 100

253 33.5 17.2 25.8#

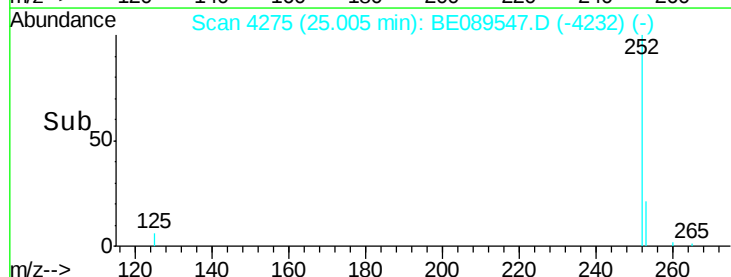
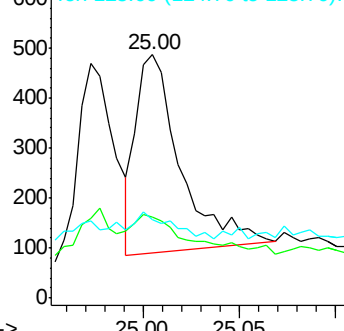
125 32.4 10.6 15.8#

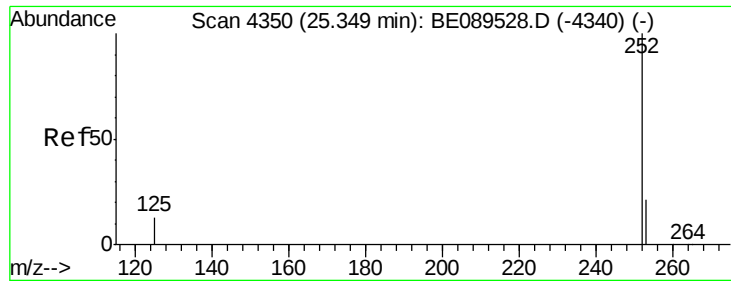


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

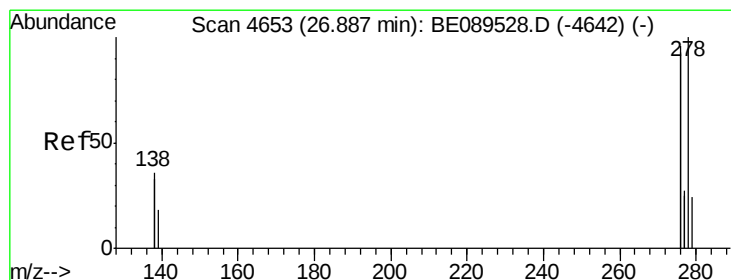
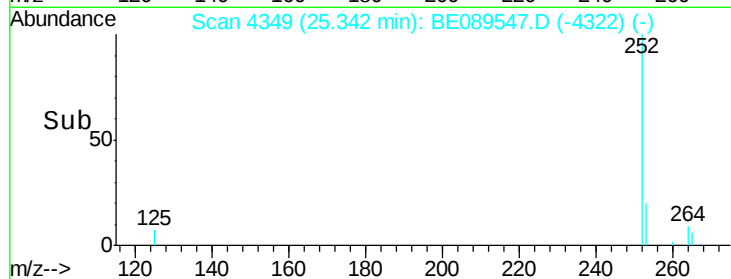
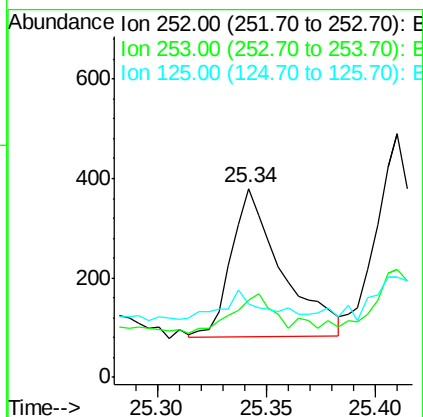
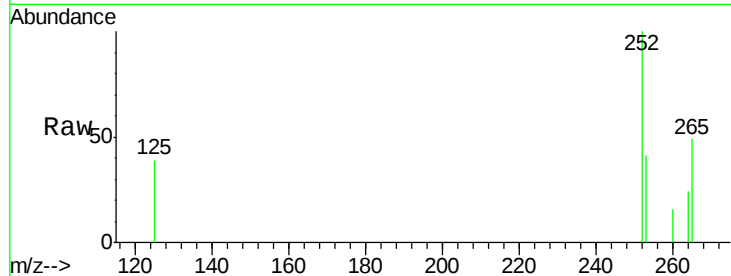




#25
Benzo(a)pyrene
Concen: 0.02 ng
RT: 25.34 min Scan# 4349
Delta R.T. -0.01 min
Lab File: BE089547.D
Acq: 7 Feb 2015 5:29

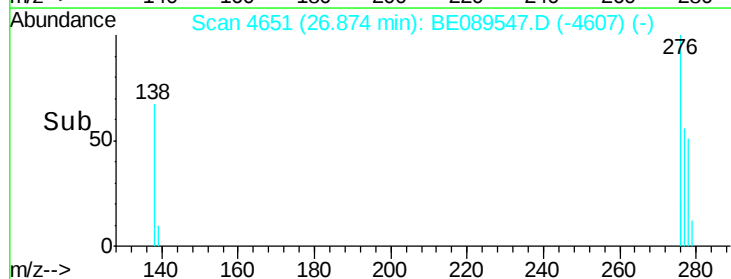
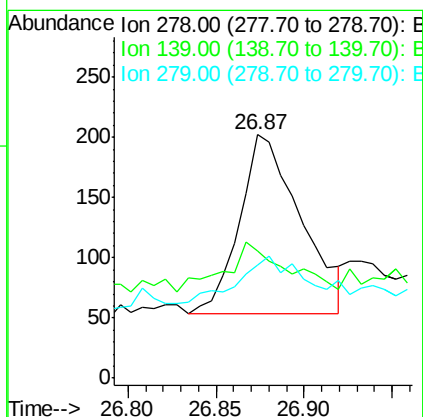
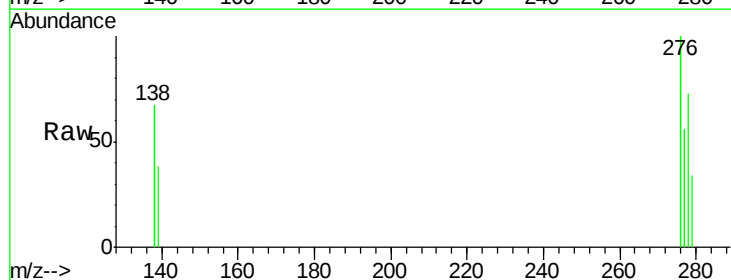
Instrument :
BNA_E
ClientSampleId :
MW-4

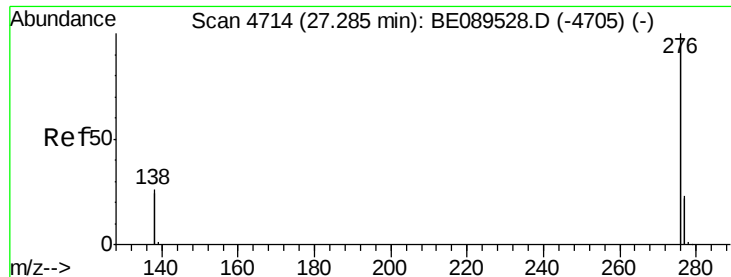
Tgt Ion: 252 Resp: 477
Ion Ratio Lower Upper
252 100
253 41.1 17.8 26.6#
125 38.7 11.4 17.2#



#26
Dibenzo(a,h)anthracene
Concen: 0.01 ng
RT: 26.87 min Scan# 4651
Delta R.T. -0.01 min
Lab File: BE089547.D
Acq: 7 Feb 2015 5:29

Tgt Ion: 278 Resp: 356
Ion Ratio Lower Upper
278 100
139 52.5 15.7 23.5#
279 46.5 19.5 29.3#





#27

Benzo(g,h,i)perylene

Concen: 0.03 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089547.D

Acq: 7 Feb 2015 5:29

Instrument :

BNA_E

ClientSampleId :

MW-4

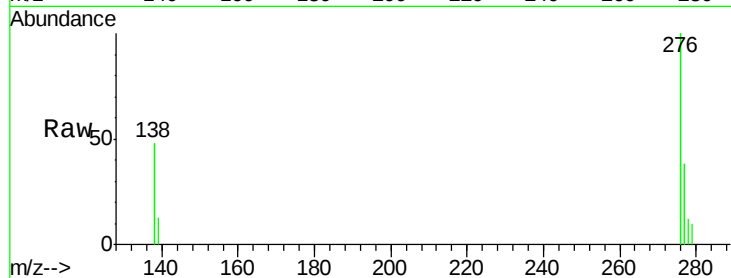
Tgt Ion: 276 Resp: 3376

Ion Ratio Lower Upper

276 100

277 38.0 18.6 27.8#

138 48.2 20.9 31.3#



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

