

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089554.D
 Acq On : 7 Feb 2015 10:04
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Quant Time: Feb 09 00:15:58 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	42094	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	156566	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	64976	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	99960	5.00	ng	0.00
16) Chrysene-d12	23.72	240	120208	5.00	ng	0.00
22) Perylene-d12	25.41	264	138532	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	76490	7.36	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	113343	6.54	ng	0.00
18) Terphenyl-d14	22.36	244	112252	7.08	ng	0.00

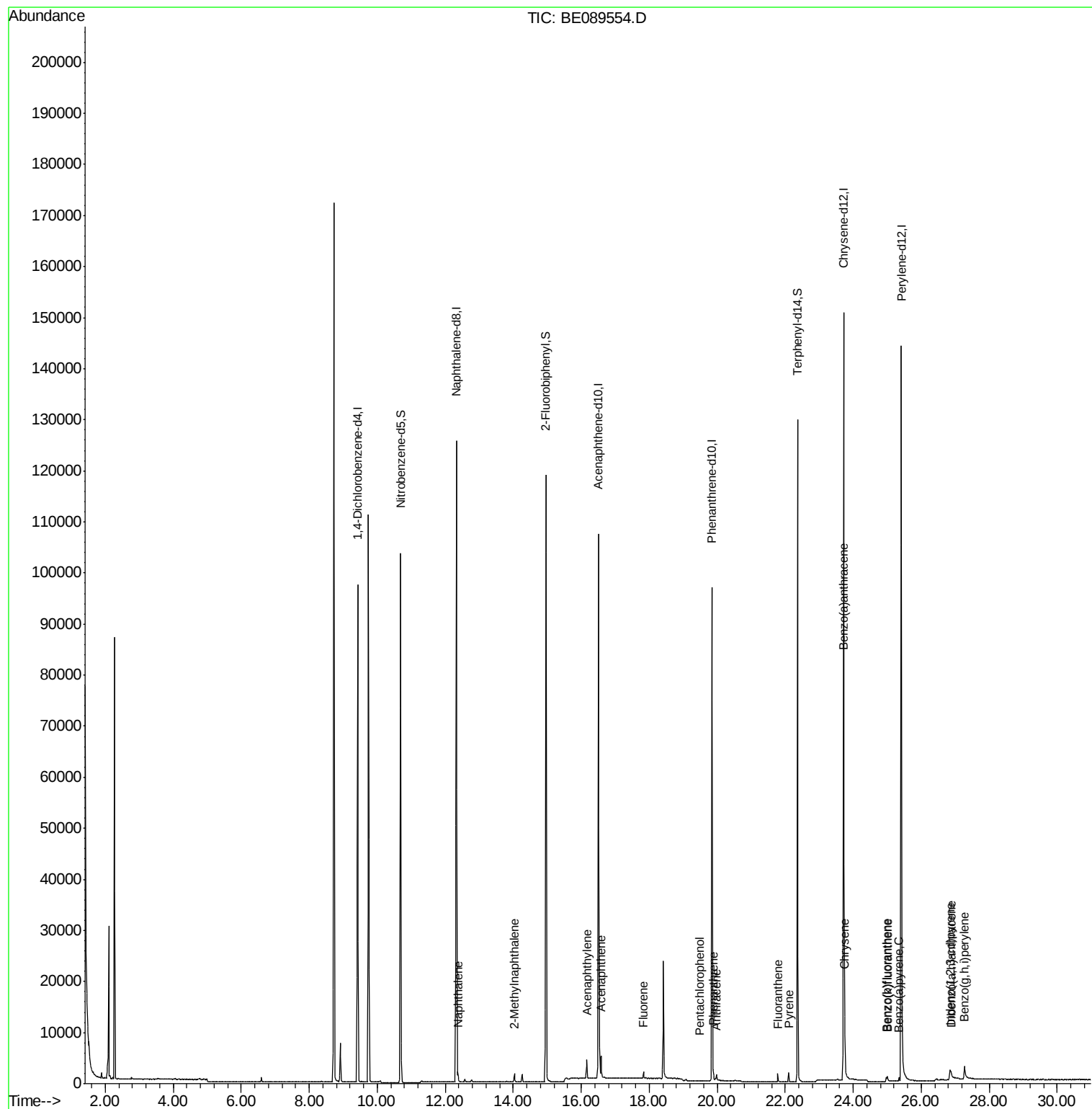
Target Compounds				Qvalue		
4) Naphthalene	12.38	128	2205	0.06	ng	# 92
5) 2-Methylnaphthalene	14.03	142	1129	0.06	ng	94
8) Acenaphthylene	16.16	152	5125	0.05	ng	98
9) Acenaphthene	16.59	154	973	0.06	ng	91
10) Fluorene	17.83	166	955	0.05	ng	# 95
12) Pentachlorophenol	19.48	266	1	0.53	ng	# 72
13) Phenanthrene	19.89	178	1559	0.06	ng	97
14) Anthracene	19.98	178	1148	0.05	ng	99
15) Fluoranthene	21.79	202	1184	0.05	ng	98
17) Pyrene	22.10	202	1309	0.05	ng	97
19) Benzo(a)anthracene	23.70	228	6044	0.06	ng	# 93
20) Chrysene	23.75	228	7024	0.06	ng	93
21) Indeno(1,2,3-cd)pyrene	26.85	276	5478	0.04	ng	91
23) Benzo(b)fluoranthene	24.97	252	822	0.03	ng	# 84
24) Benzo(k)fluoranthene	25.00	252	1452	0.04	ng	# 83
25) Benzo(a)pyrene	25.34	252	1010	0.04	ng	# 84
26) Dibenzo(a,h)anthracene	26.88	278	937	0.03	ng	# 75
27) Benzo(g,h,i)perylene	27.27	276	6310	0.05	ng	# 82

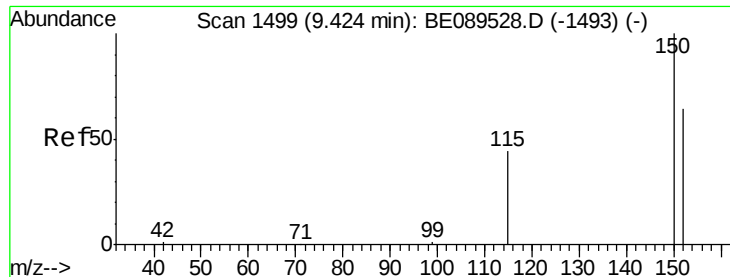
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

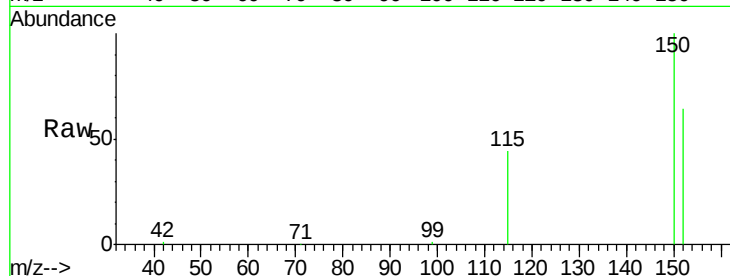
Tgt Ion:152 Resp: 42094

Ion Ratio Lower Upper

152 100

150 157.0 125.7 188.5

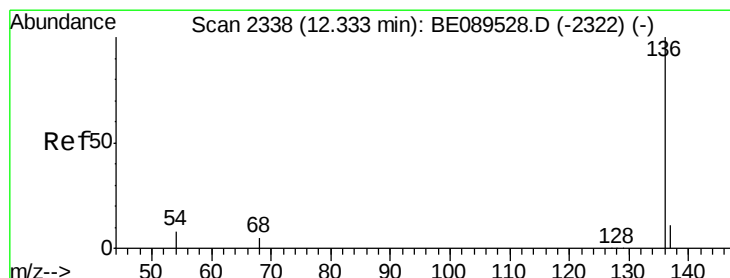
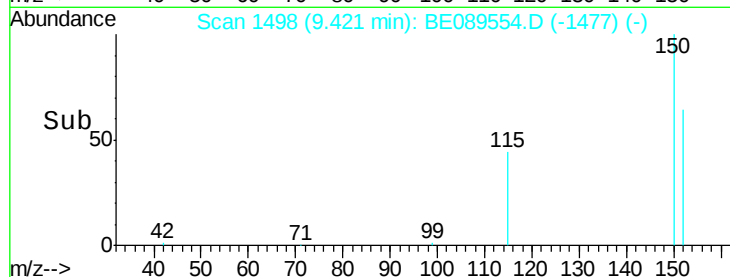
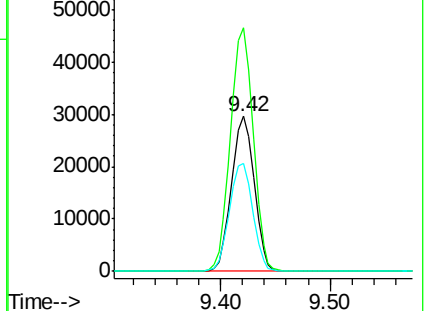
115 69.6 55.6 83.4



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# 2338

Delta R.T. -0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

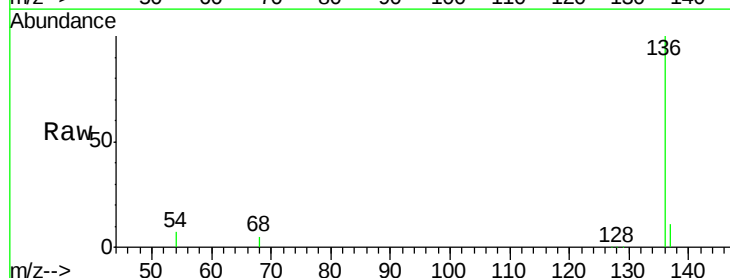
Tgt Ion:136 Resp: 156566

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

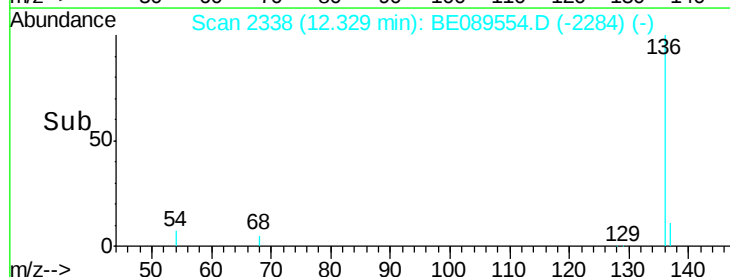
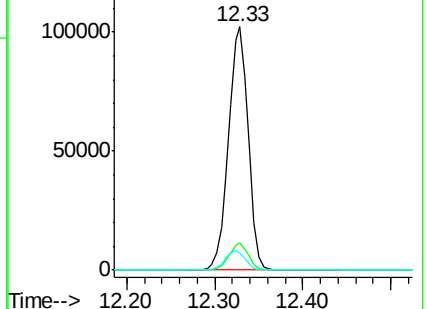
54 7.0 6.1 9.1



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: 7.36 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

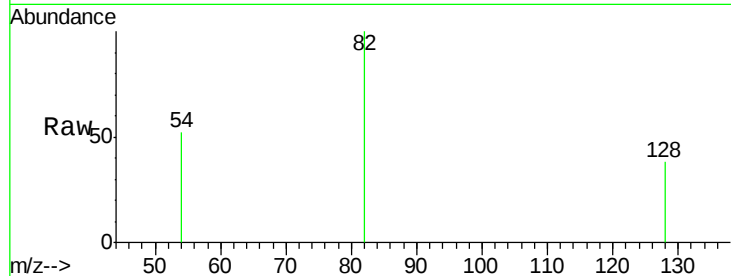
Tgt Ion: 82 Resp: 76490

Ion Ratio Lower Upper

82 100

128 38.4 30.2 45.4

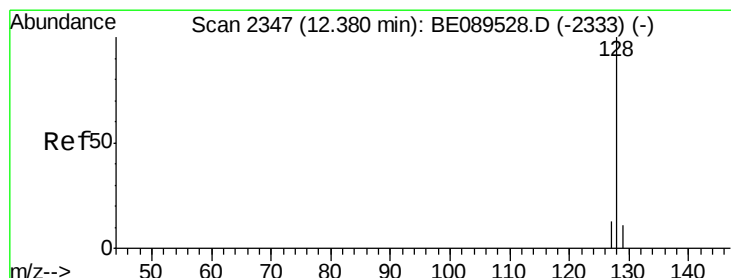
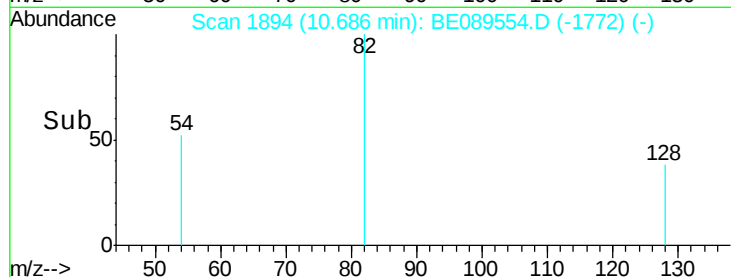
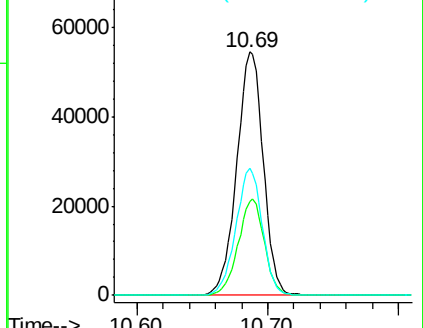
54 52.3 40.6 60.8



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: 0.06 ng

RT: 12.38 min Scan# 2347

Delta R.T. -0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

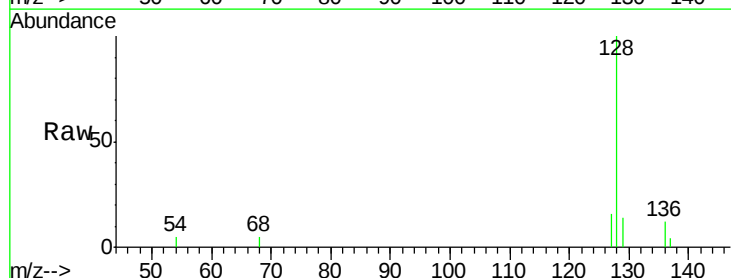
Tgt Ion: 128 Resp: 2205

Ion Ratio Lower Upper

128 100

129 14.2 9.1 13.7#

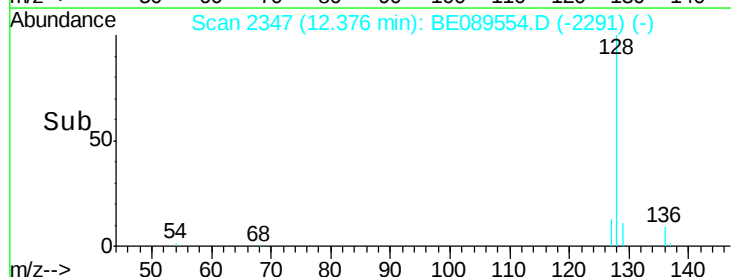
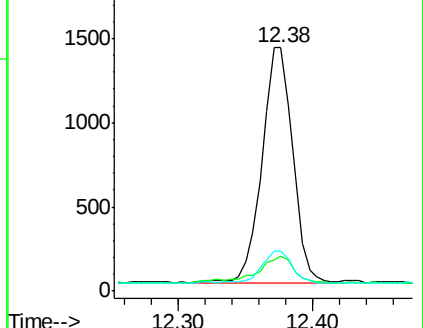
127 16.4 10.5 15.7#

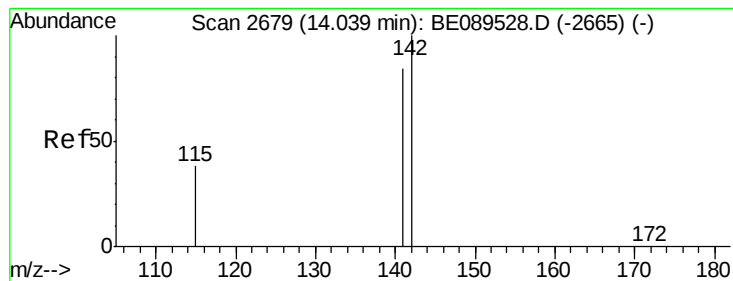


Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

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: 0.06 ng

RT: 14.03 min Scan# 2679

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDICC0.5

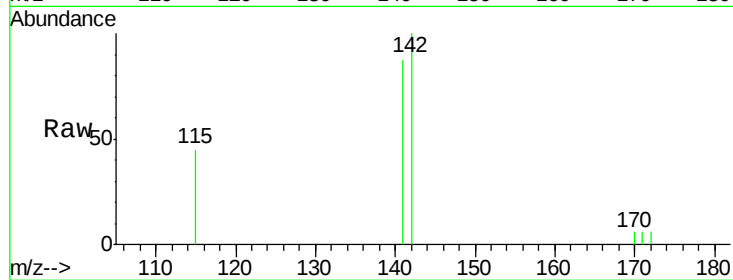
Tgt Ion:142 Resp: 1129

Ion Ratio Lower Upper

142 100

141 87.2 67.0 100.6

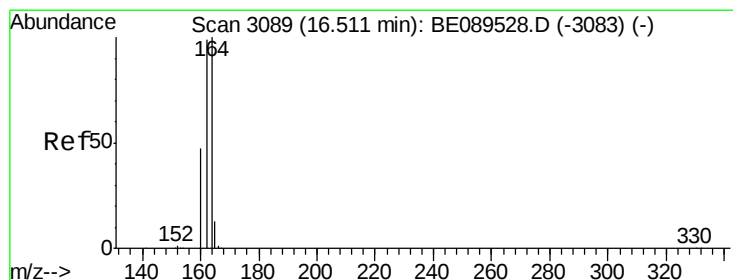
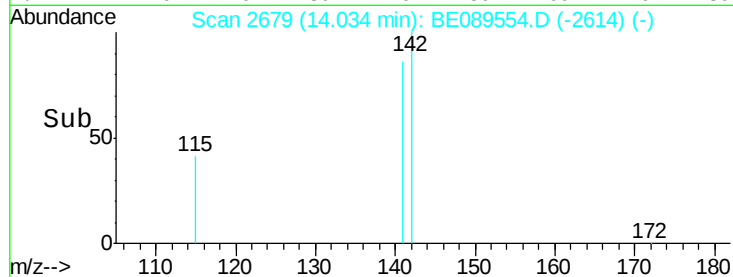
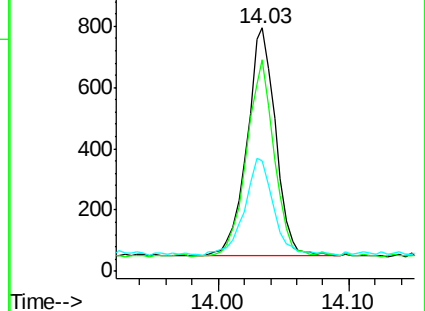
115 45.4 30.6 45.8



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# 3090

Delta R.T. 0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

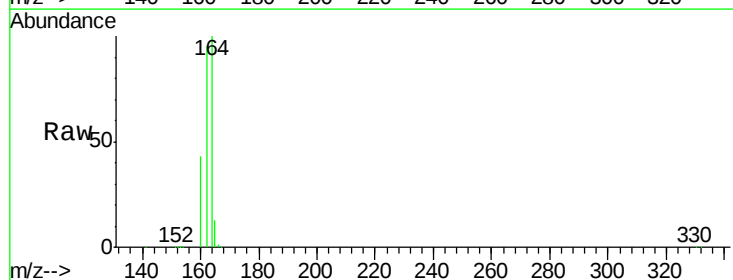
Tgt Ion:164 Resp: 64976

Ion Ratio Lower Upper

164 100

162 94.8 79.5 119.3

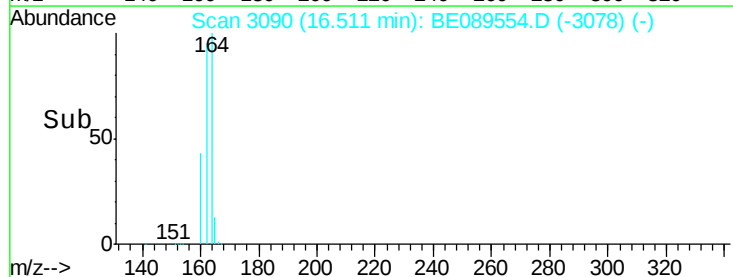
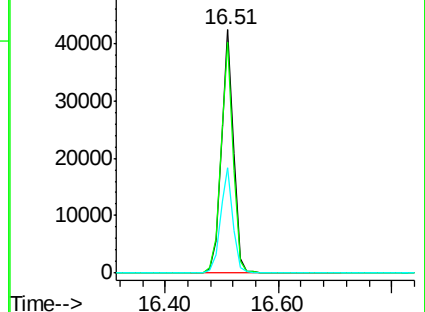
160 43.2 37.6 56.4



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: 6.54 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

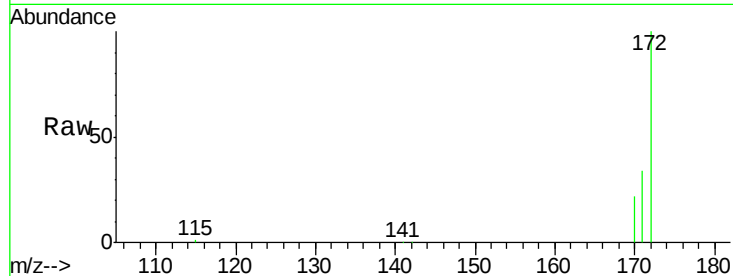
Tgt Ion:172 Resp: 113343

Ion Ratio Lower Upper

172 100

171 34.1 27.7 41.5

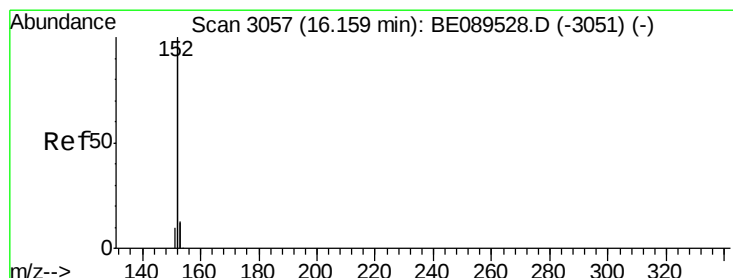
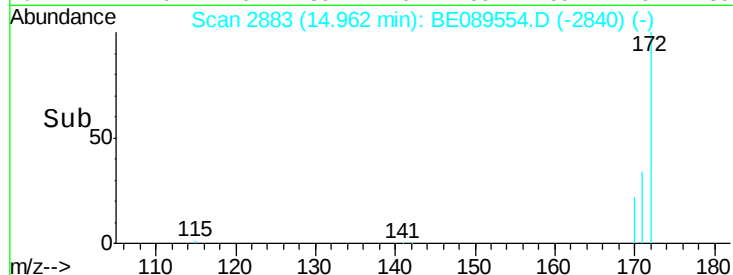
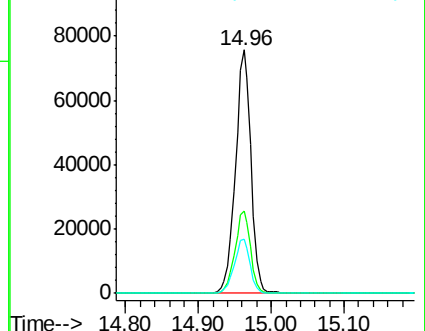
170 22.3 18.3 27.5



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: 0.05 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

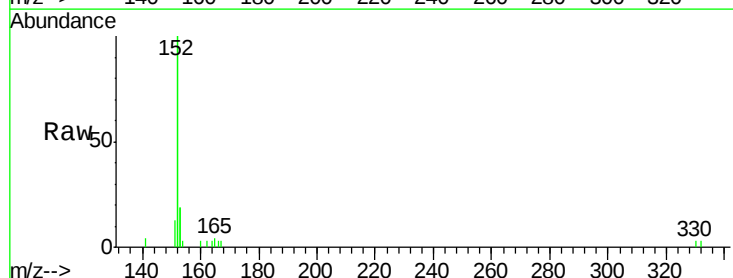
Tgt Ion:152 Resp: 5125

Ion Ratio Lower Upper

152 100

151 6.0 4.0 6.0

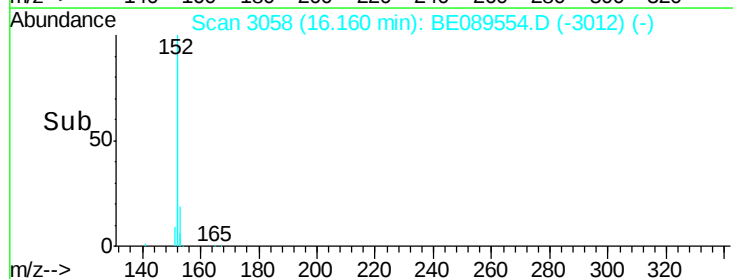
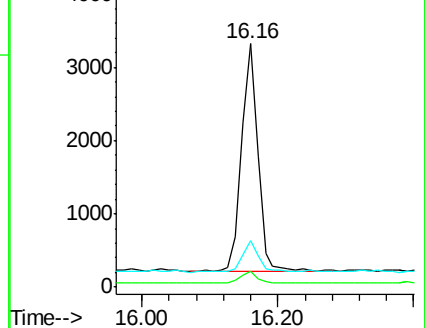
153 13.7 10.6 15.8

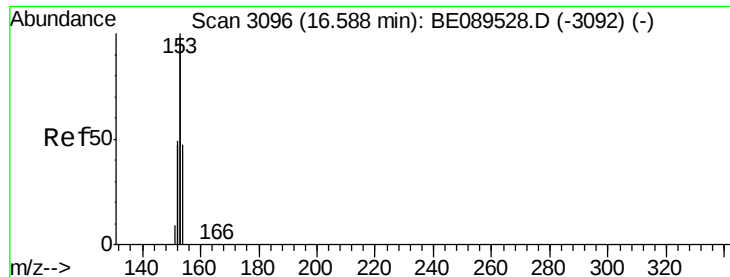


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDICC0.5

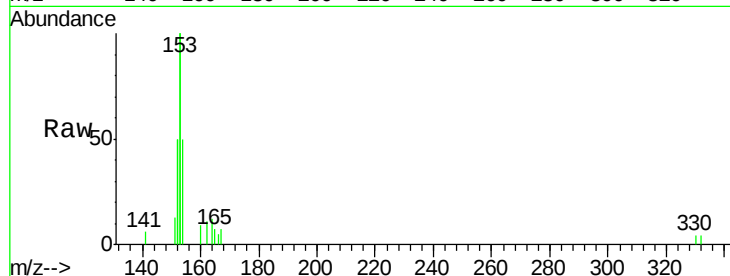
Tgt Ion:154 Resp: 973

Ion Ratio Lower Upper

154 100

153 438.7 340.8 511.2

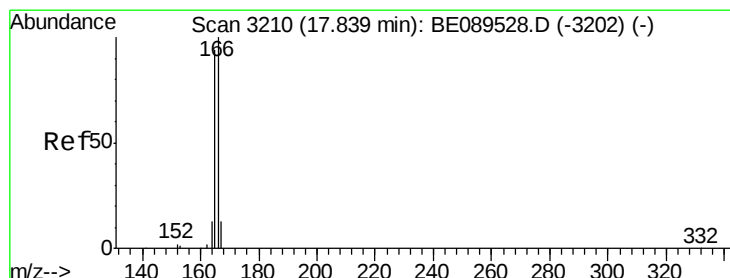
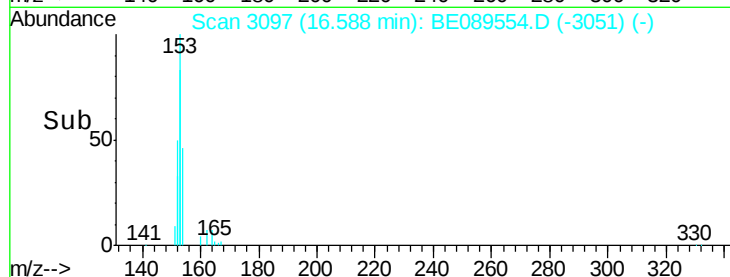
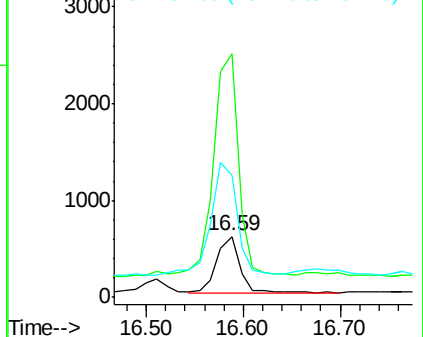
152 235.3 165.5 248.3



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



#10

Fluorene

Concen: 0.05 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

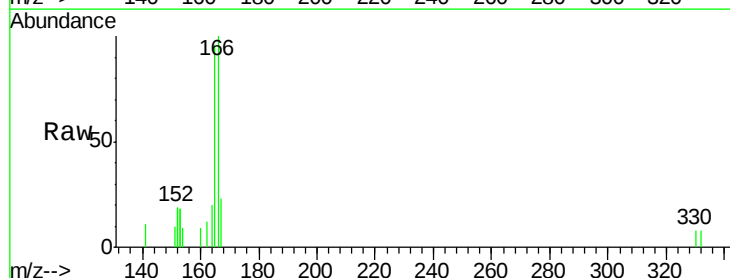
Tgt Ion:166 Resp: 955

Ion Ratio Lower Upper

166 100

165 98.5 75.5 113.3

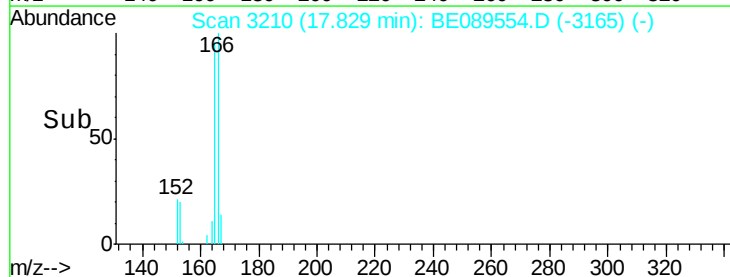
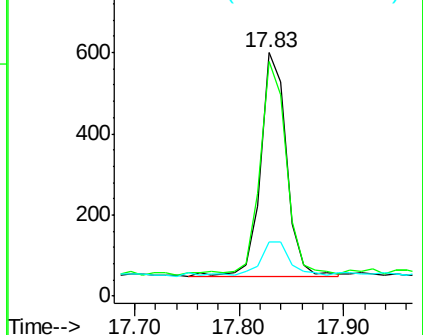
167 17.3 10.9 16.3#

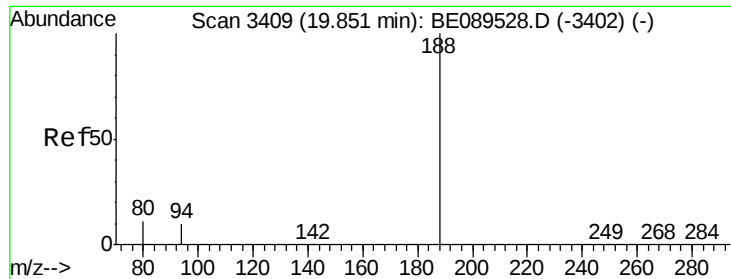


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

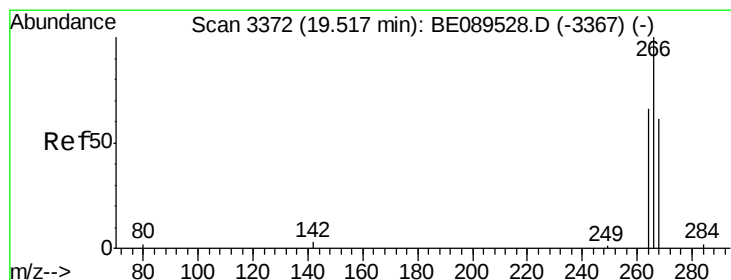
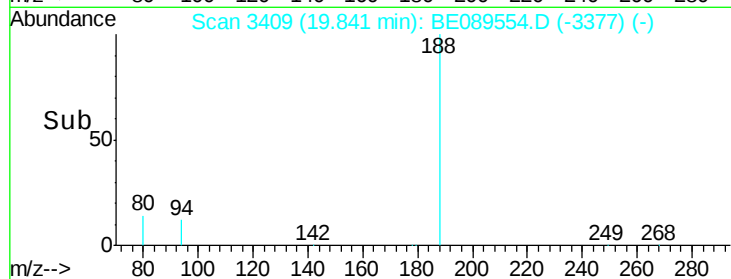
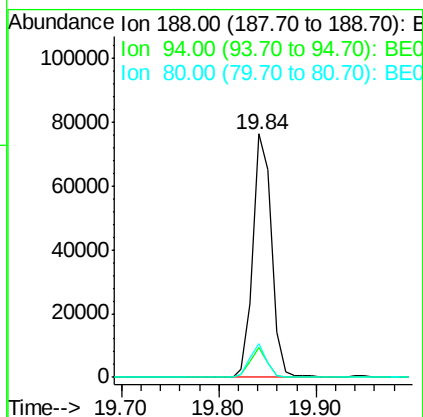
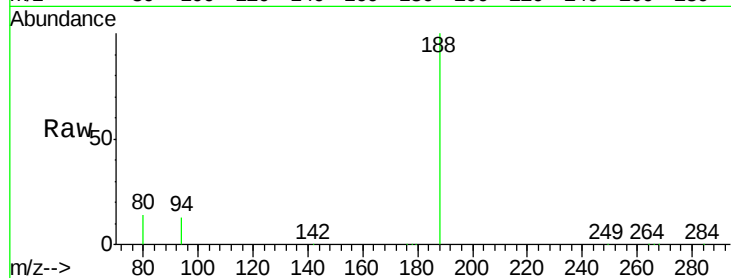




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089554.D
Acq: 7 Feb 2015 10:04

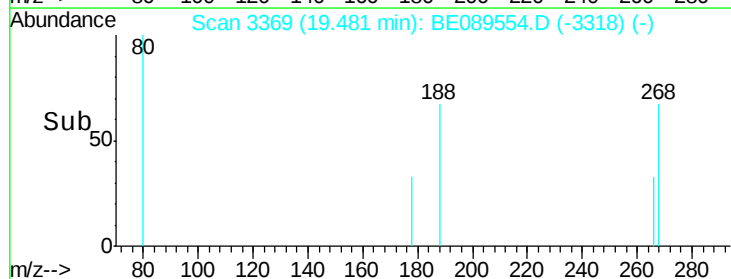
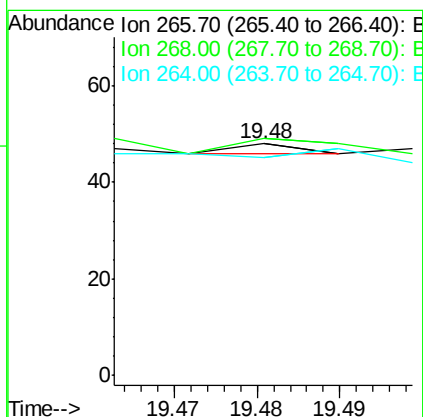
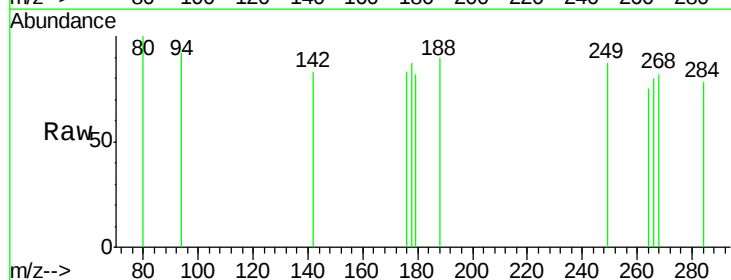
Instrument :
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SSTDIC0.5

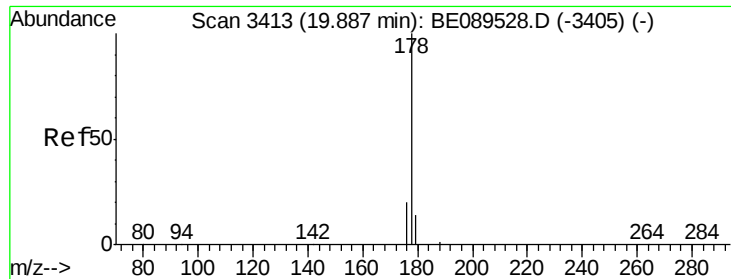
Tgt Ion:188 Resp: 99960
Ion Ratio Lower Upper
188 100
94 12.5 8.4 12.6
80 13.7 8.6 12.8#



#12
Pentachlorophenol
Concen: 0.53 ng
RT: 19.48 min Scan# 3369
Delta R.T. -0.04 min
Lab File: BE089554.D
Acq: 7 Feb 2015 10:04

Tgt Ion:266 Resp: 1
Ion Ratio Lower Upper
266 100
268 102.1 57.9 86.9#
264 93.8 60.2 90.4#

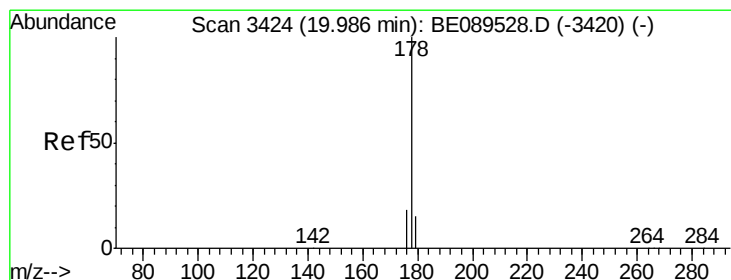
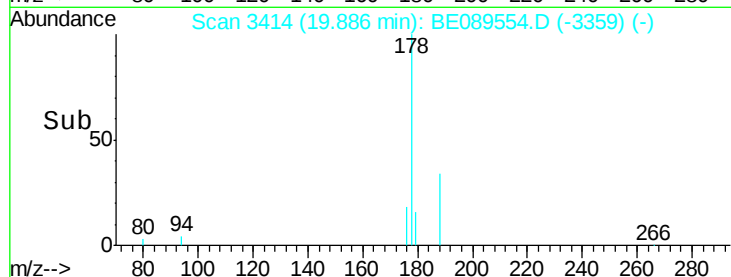
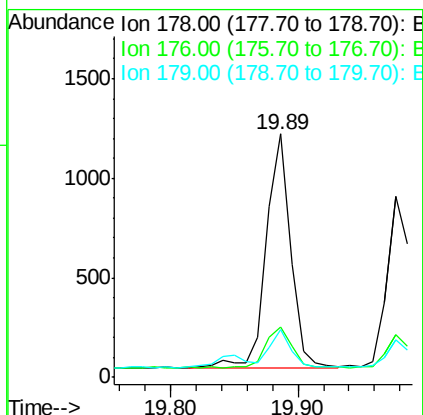
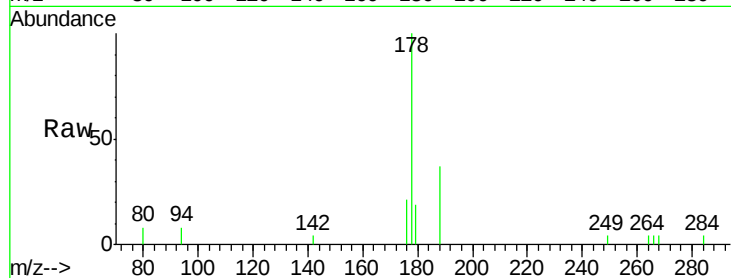




#13
Phenanthrene
Concen: 0.06 ng
RT: 19.89 min Scan# 3414
Delta R.T. -0.00 min
Lab File: BE089554.D
Acq: 7 Feb 2015 10:04

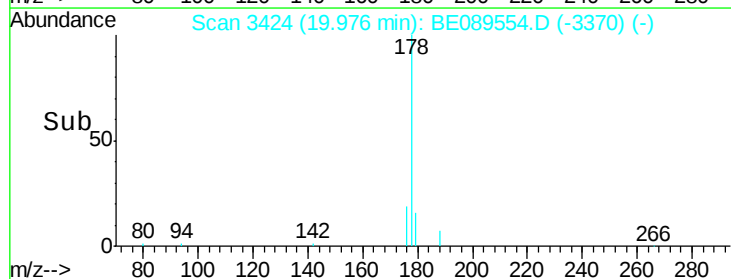
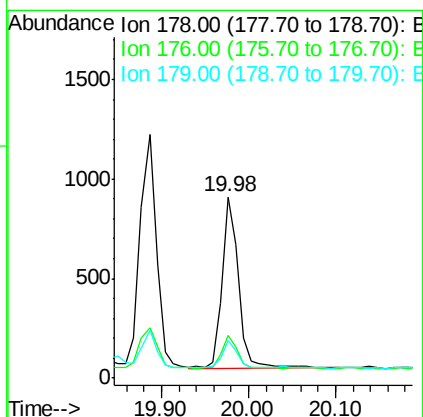
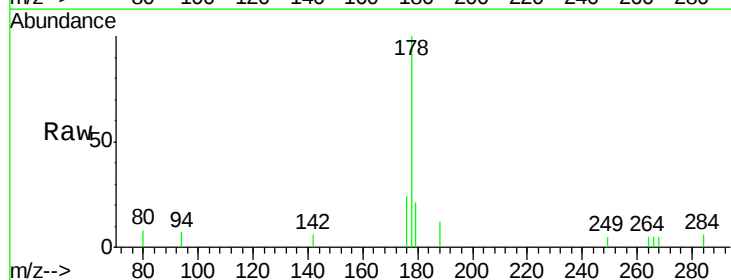
Instrument :
BNA_E
LabSampleId :
SSTDIC0.5

Tgt Ion:178 Resp: 1559
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.0
179 13.5 12.2 18.2



#14
Anthracene
Concen: 0.05 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089554.D
Acq: 7 Feb 2015 10:04

Tgt Ion:178 Resp: 1148
Ion Ratio Lower Upper
178 100
176 18.2 14.5 21.7
179 14.2 12.2 18.2

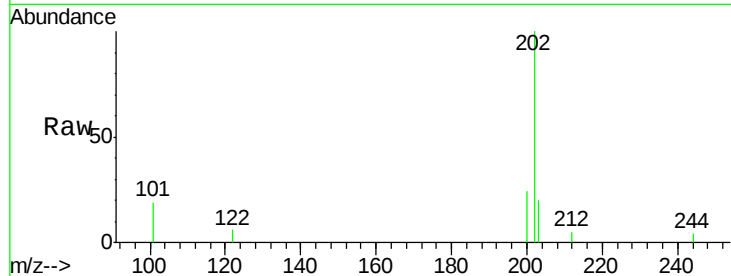




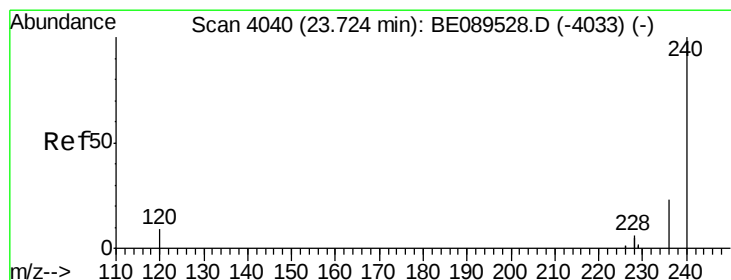
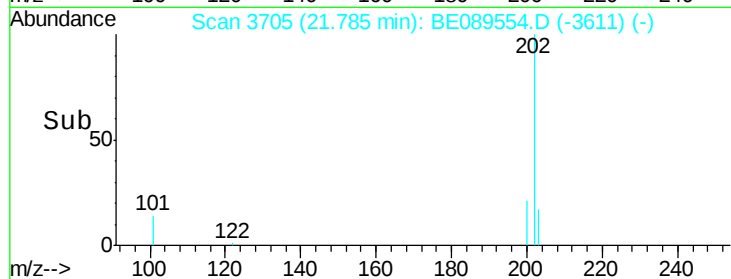
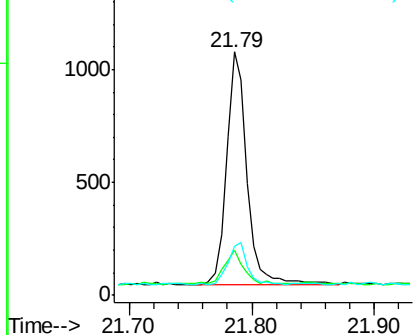
#15
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089554.D
 Acq: 7 Feb 2015 10:04

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Tgt Ion:202 Resp: 1184
 Ion Ratio Lower Upper
 202 100
 101 15.2 11.6 17.4
 203 18.1 13.6 20.4

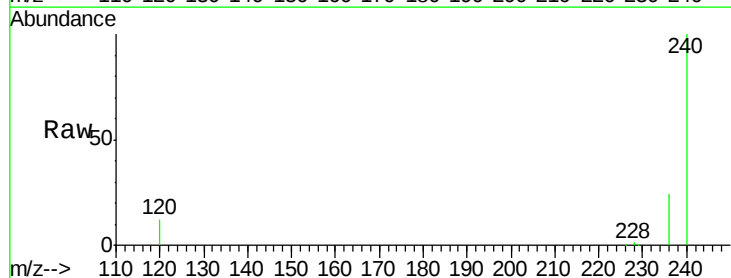


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

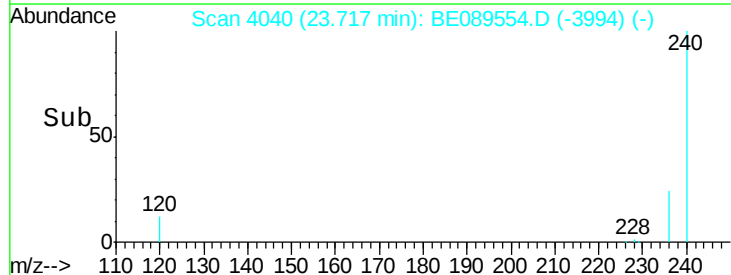
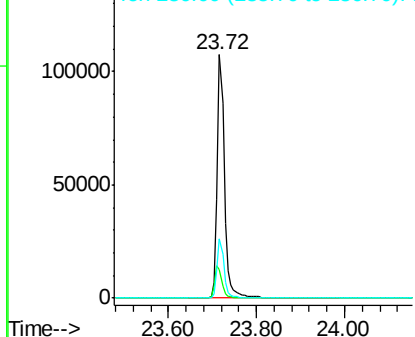


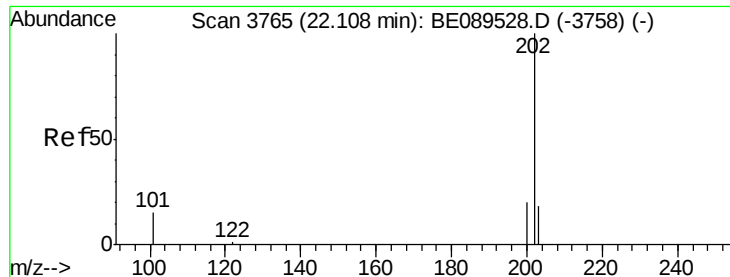
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089554.D
 Acq: 7 Feb 2015 10:04

Tgt Ion:240 Resp: 120208
 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

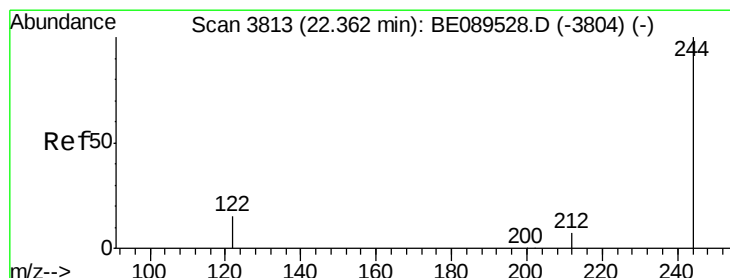
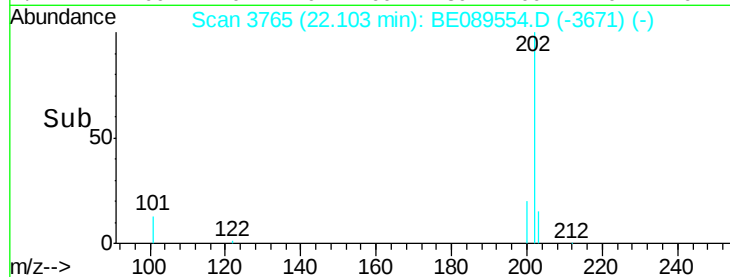
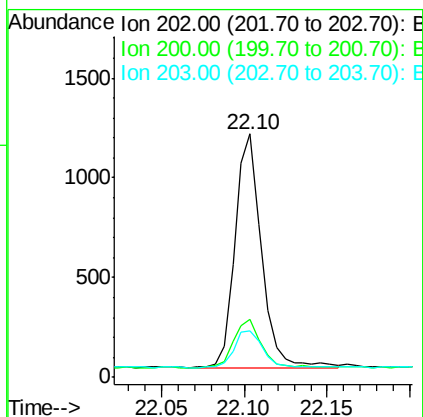
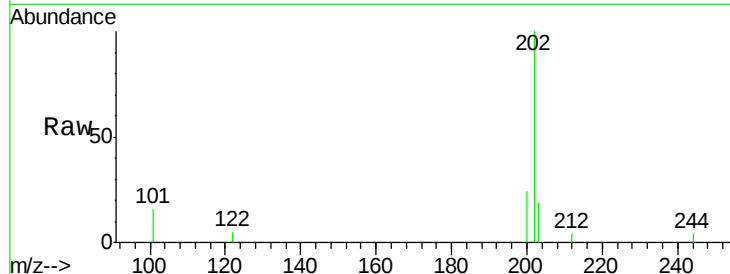




#17
 Pyrene
 Concen: 0.05 ng
 RT: 22.10 min Scan# 3765
 Delta R.T. -0.00 min
 Lab File: BE089554.D
 Acq: 7 Feb 2015 10:04

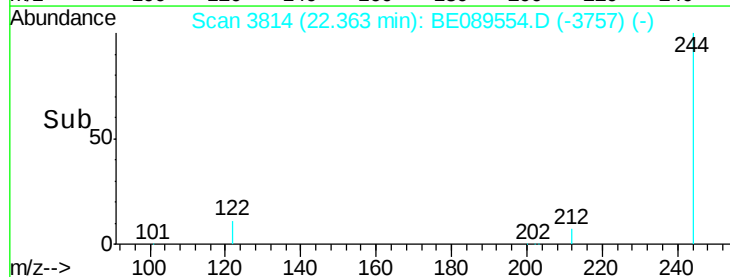
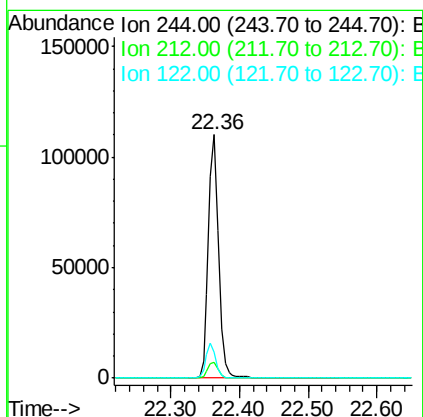
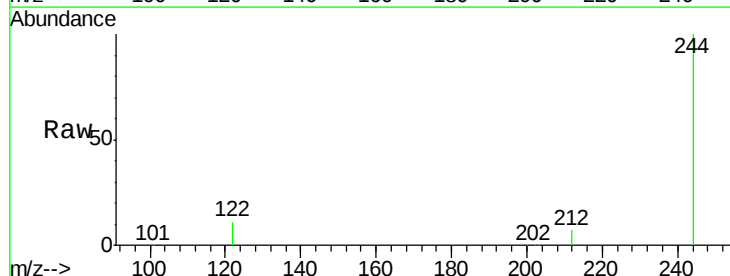
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Tgt Ion: 202 Resp: 1309
 Ion Ratio Lower Upper
 202 100
 200 22.3 16.3 24.5
 203 17.4 13.5 20.3



#18
 Terphenyl-d14
 Concen: 7.08 ng
 RT: 22.36 min Scan# 3814
 Delta R.T. 0.00 min
 Lab File: BE089554.D
 Acq: 7 Feb 2015 10:04

Tgt Ion: 244 Resp: 112252
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.8 8.8
 122 10.6 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

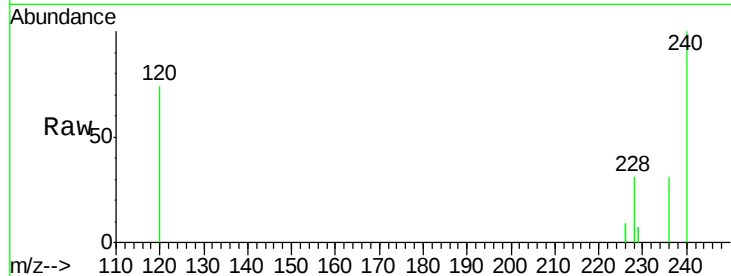
Tgt Ion:228 Resp: 6044

Ion Ratio Lower Upper

228 100

226 28.8 19.0 28.4#

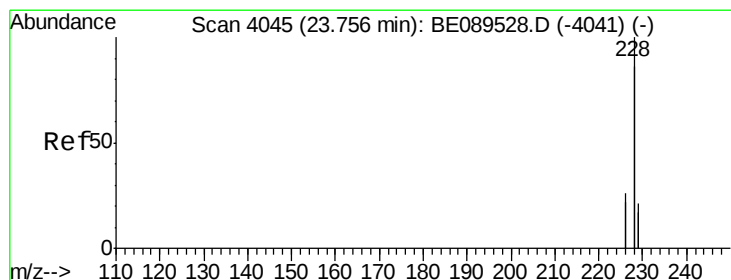
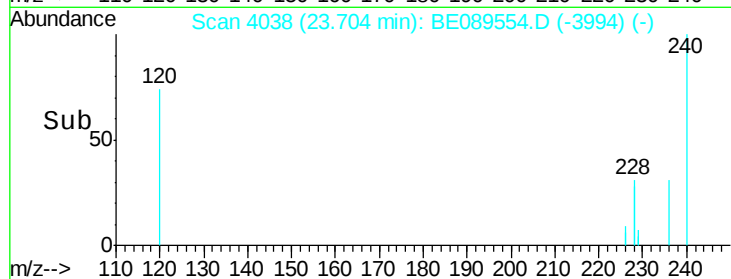
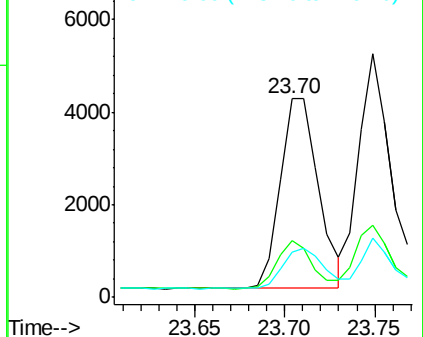
229 22.4 16.8 25.2



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: 0.06 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

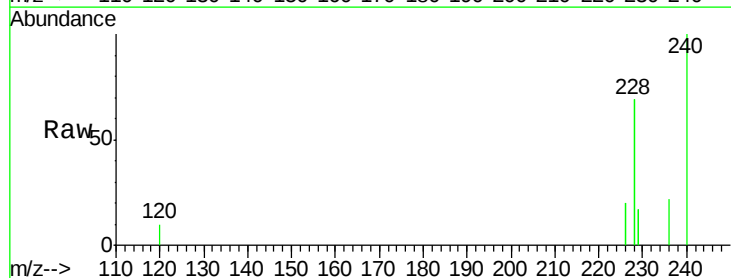
Tgt Ion:228 Resp: 7024

Ion Ratio Lower Upper

228 100

226 29.7 21.0 31.4

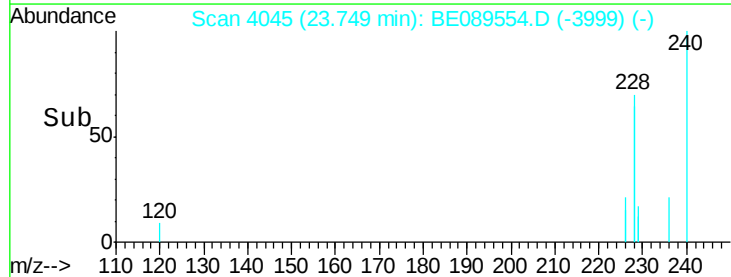
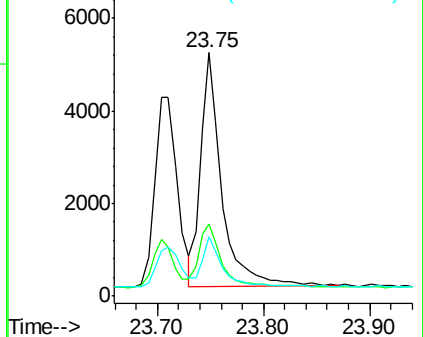
229 24.6 16.7 25.1

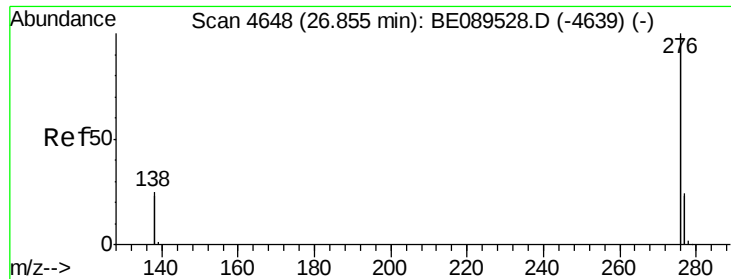


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.04 ng

RT: 26.85 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

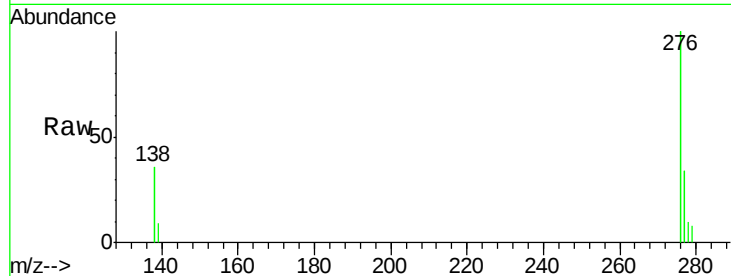
Tgt Ion:276 Resp: 5478

Ion Ratio Lower Upper

276 100

138 23.4 23.0 34.4

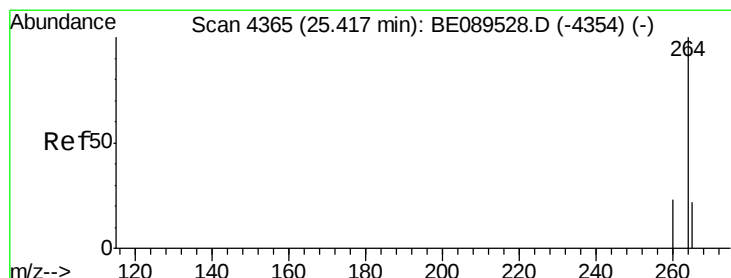
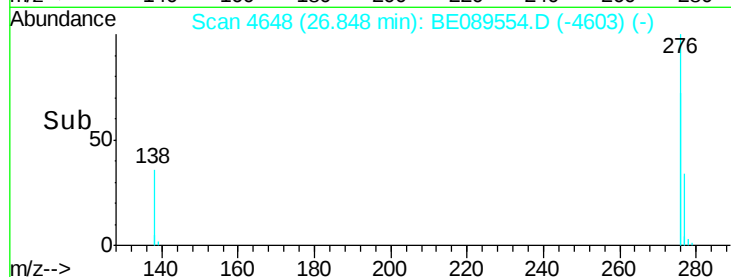
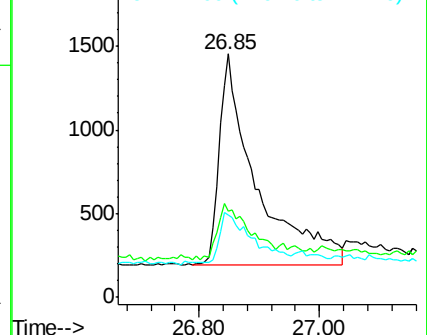
277 20.7 19.9 29.9



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# 4365

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

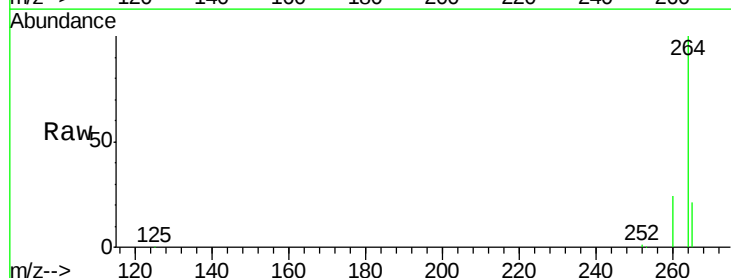
Tgt Ion:264 Resp: 138532

Ion Ratio Lower Upper

264 100

260 24.2 18.7 28.1

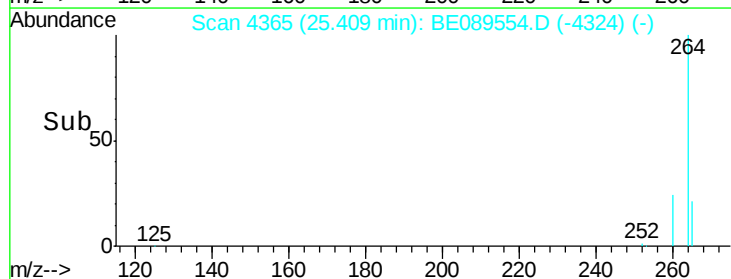
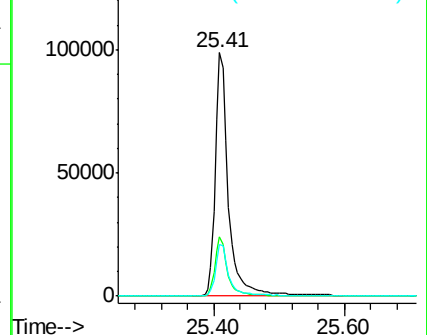
265 21.0 17.5 26.3



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: 0.03 ng

RT: 24.97 min Scan# 4269

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

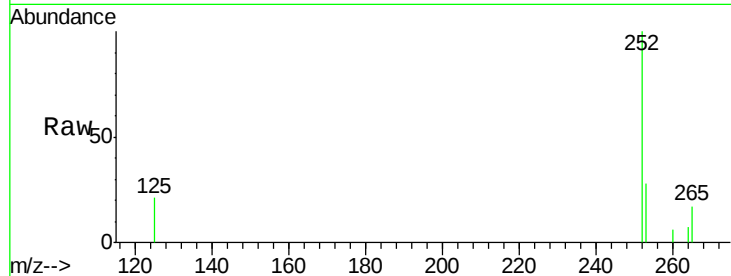
Tgt Ion:252 Resp: 822

Ion Ratio Lower Upper

252 100

253 27.8 17.4 26.0#

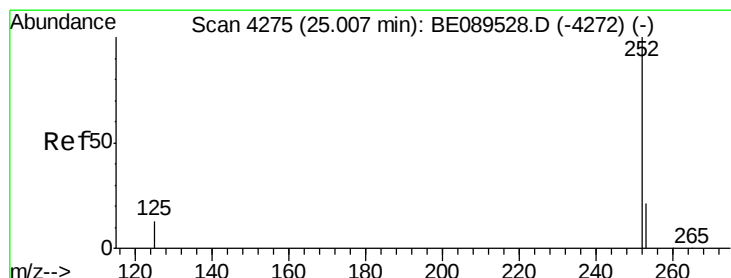
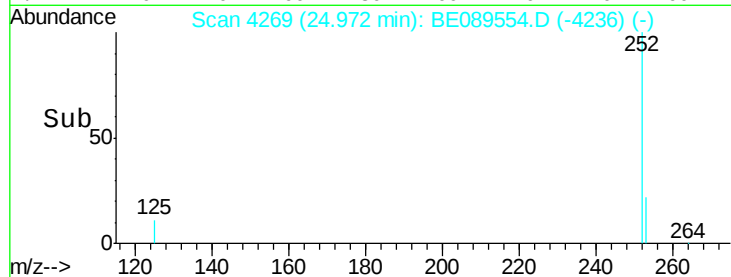
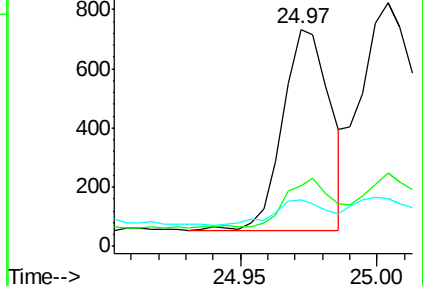
125 21.4 10.4 15.6#



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: 0.04 ng

RT: 25.00 min Scan# 4276

Delta R.T. -0.00 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

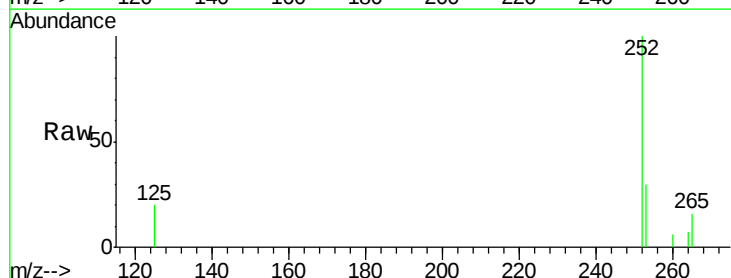
Tgt Ion:252 Resp: 1452

Ion Ratio Lower Upper

252 100

253 30.1 17.2 25.8#

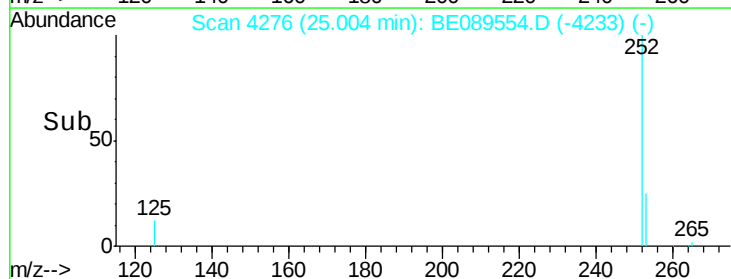
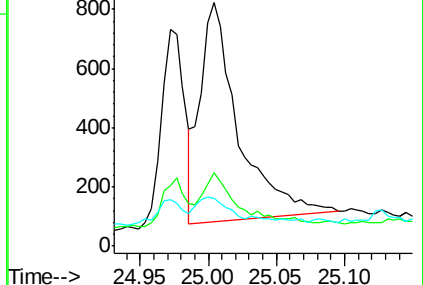
125 19.6 10.6 15.8#



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: 0.04 ng

RT: 25.34 min Scan# 4350

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

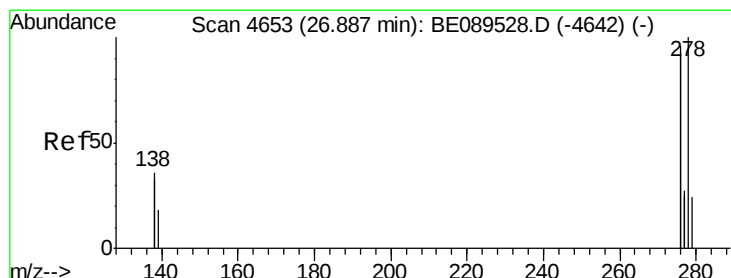
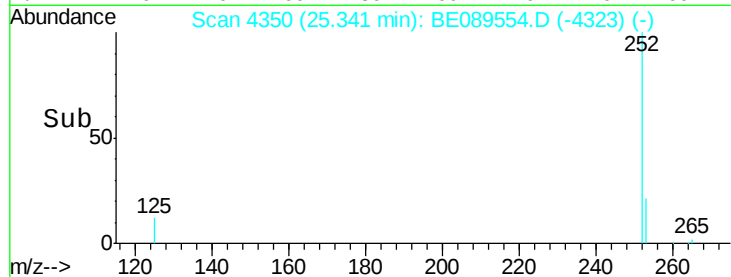
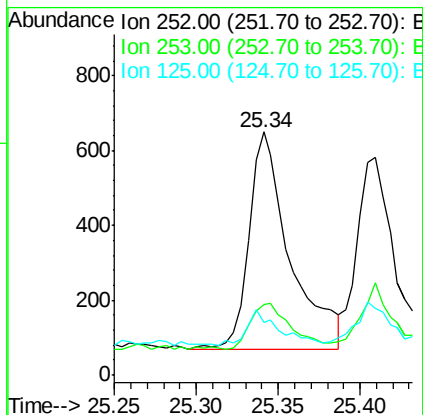
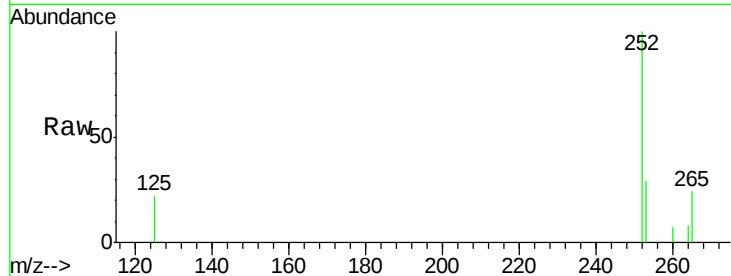
Tgt Ion:252 Resp: 1010

Ion Ratio Lower Upper

252 100

253 29.2 17.8 26.6#

125 21.8 11.4 17.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.03 ng

RT: 26.88 min Scan# 4653

Delta R.T. -0.01 min

Lab File: BE089554.D

Acq: 7 Feb 2015 10:04

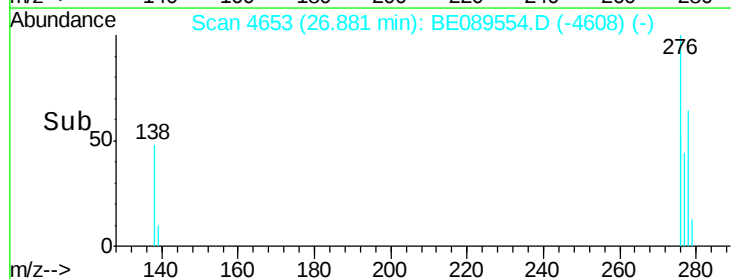
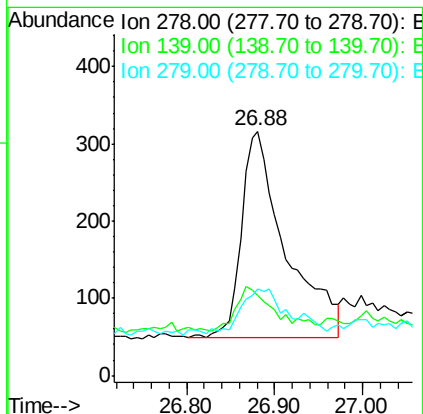
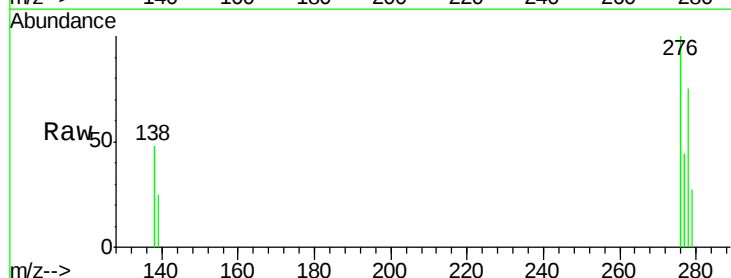
Tgt Ion:278 Resp: 937

Ion Ratio Lower Upper

278 100

139 32.9 15.7 23.5#

279 35.4 19.5 29.3#

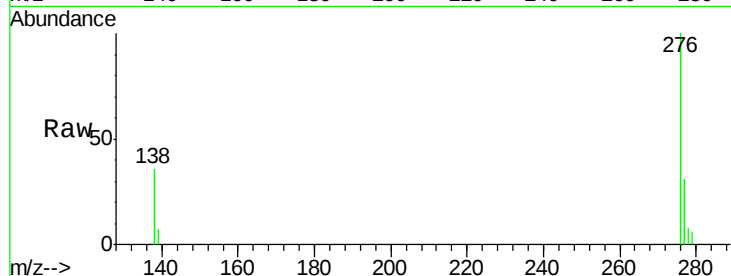




#27
 Benzo(g,h,i)perylene
 Concen: 0.05 ng
 RT: 27.27 min Scan# 4713
 Delta R.T. -0.01 min
 Lab File: BE089554.D
 Acq: 7 Feb 2015 10:04

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Tgt Ion: 276 Resp: 6310
 Ion Ratio Lower Upper
 276 100
 277 31.3 18.6 27.8#
 138 36.1 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

