

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030216\
 Data File : BE091440.D
 Acq On : 3 Mar 2016 2:25
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 03 07:18:26 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 03 01:34:35 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	30025	5.00	ng	0.00
4) Naphthalene-d8	9.53	136	134862	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	81109	5.00	ng	0.00
13) Phenanthrene-d10	16.08	188	197511	5.00	ng	0.00
19) Chrysene-d12	20.21	240	263709	5.00	ng	0.00
25) Perylene-d12	22.09	264	282108	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.18	82	2626	0.35	ng	0.00
9) 2-Fluorobiphenyl	12.01	172	8731	0.39	ng	0.00
21) Terphenyl-d14	18.61	244	14429	0.38	ng	0.00

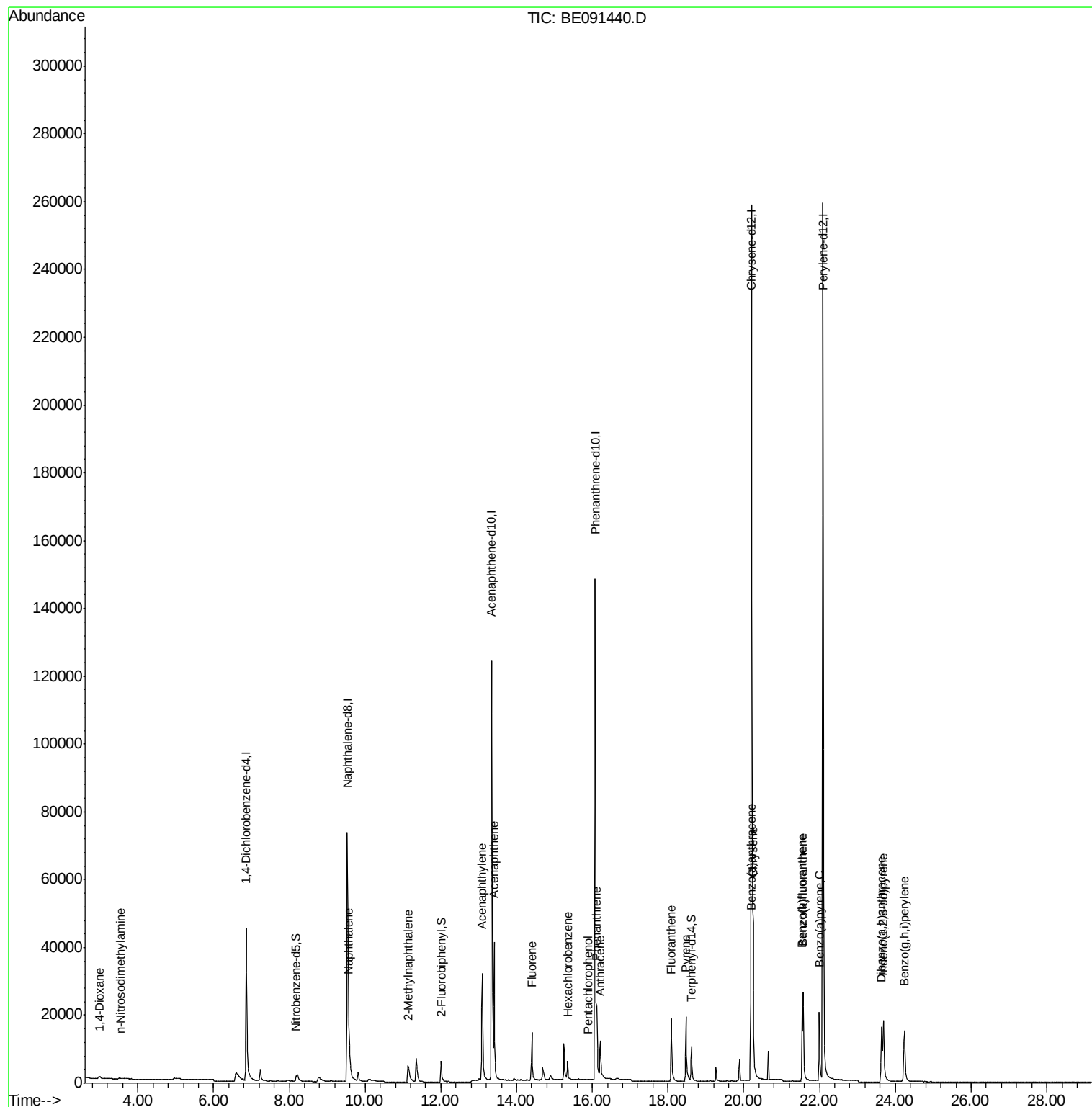
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.97	88	1173	0.38	ng	# 89
3) n-Nitrosodimethylamine	3.54	42	506	0.21	ng	# 1
6) Naphthalene	9.58	128	13148	0.39	ng	100
7) 2-Methylnaphthalene	11.14	142	7170	0.36	ng	97
10) Acenaphthylene	13.09	152	50579	0.36	ng	100
11) Acenaphthene	13.41	154	9477	0.38	ng	98
12) Fluorene	14.40	166	12070	0.36	ng	98
14) Hexachlorobenzene	15.34	284	3957	0.38	ng	99
15) Pentachlorophenol	15.89	266	211	0.13	ng	92
16) Phenanthrene	16.12	178	21994	0.37	ng	99
17) Anthracene	16.21	178	18834	0.36	ng	99
18) Fluoranthene	18.09	202	22520	0.36	ng	100
20) Pyrene	18.47	202	23825	0.37	ng	99
22) Benzo(a)anthracene	20.18	228	22891	0.34	ng	99
23) Chrysene	20.24	228	32746	0.38	ng	98
24) Indeno(1,2,3-cd)pyrene	23.69	276	27789	0.32	ng	97
26) Benzo(b)fluoranthene	21.54	252	27815	0.36	ng	99
27) Benzo(k)fluoranthene	21.57	252	30649	0.35	ng	100
28) Benzo(a)pyrene	21.99	252	24960	0.34	ng	98
29) Dibenzo(a,h)anthracene	23.63	278	26056	0.32	ng	99
30) Benzo(g,h,i)perylene	24.24	276	28599	0.32	ng	98

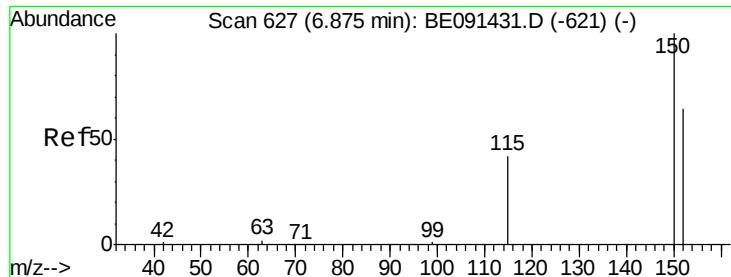
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030216\
Data File : BE091440.D
Acq On : 3 Mar 2016 2:25
Operator : UM/IZ
Sample : SSTDCCC001
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Mar 03 07:18:26 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 03 01:34:35 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 626

Delta R.T. 0.01 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

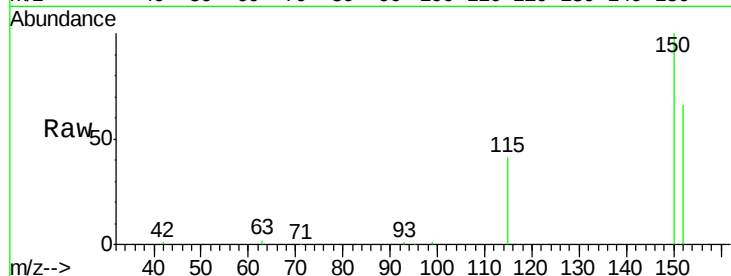
Tgt Ion: 152 Resp: 30025

Ion Ratio Lower Upper

152 100

150 151.5 122.1 183.1

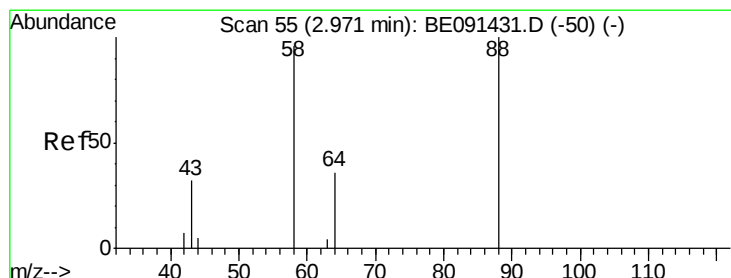
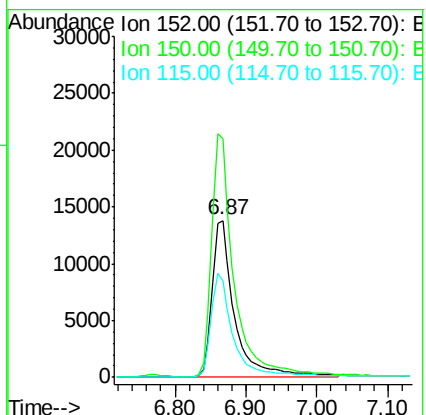
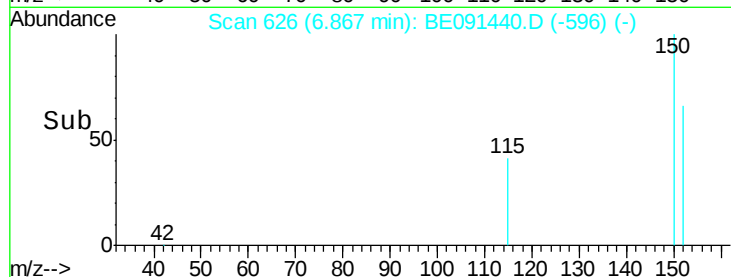
115 61.8 50.3 75.5



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

1,4-Dioxane

Concen: 0.38 ng

RT: 2.97 min Scan# 55

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

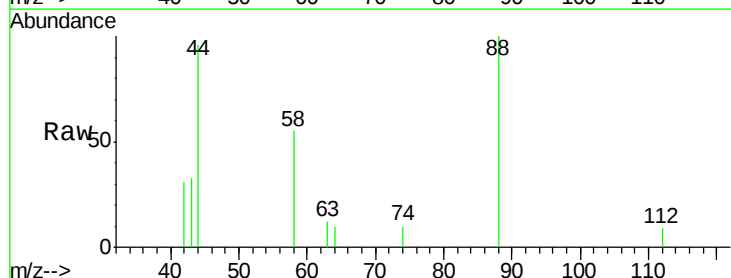
Tgt Ion: 88 Resp: 1173

Ion Ratio Lower Upper

88 100

58 101.1 88.8 133.2

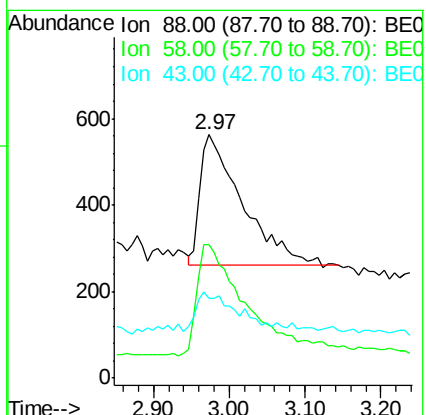
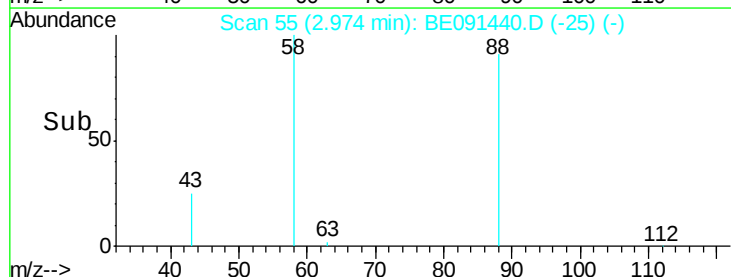
43 29.2 30.2 45.4#

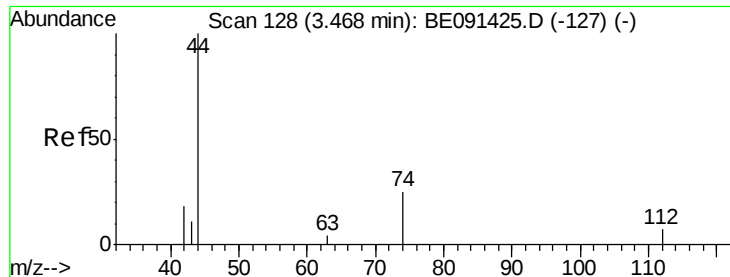


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.21 ng

RT: 3.54 min Scan# 138

Delta R.T. 0.04 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

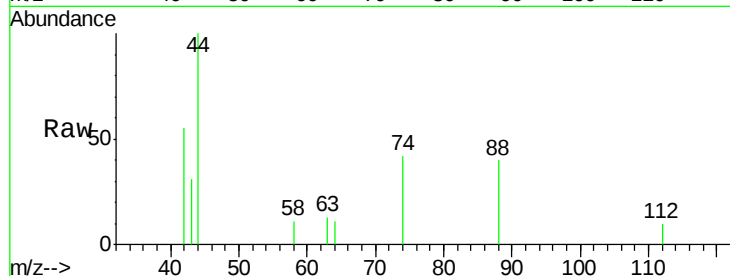
Tgt Ion: 42 Resp: 506

Ion Ratio Lower Upper

42 100

74 255.1 91.1 136.7#

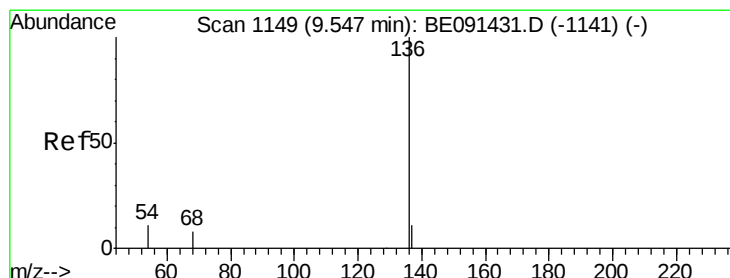
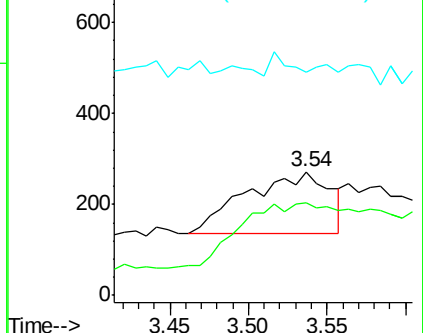
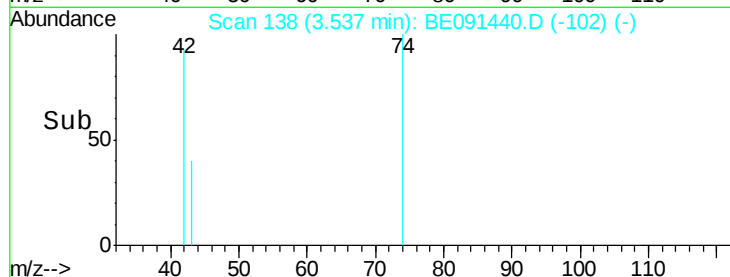
44 0.0 4.7 7.1#



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

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 1147

Delta R.T. -0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

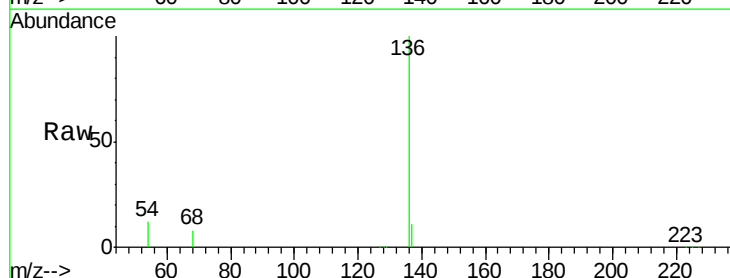
Tgt Ion: 136 Resp: 134862

Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

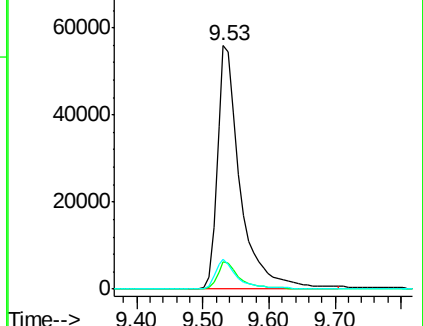
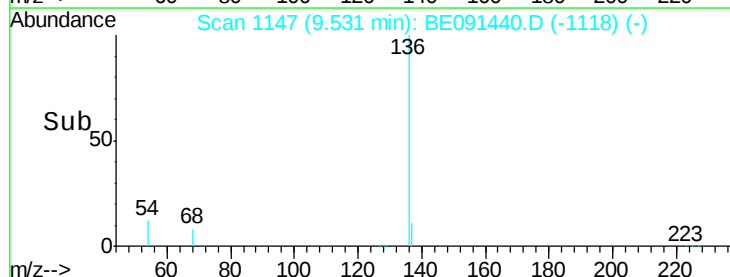
54 12.2 9.1 13.7

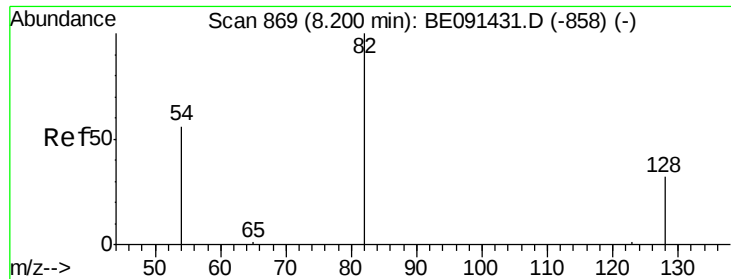


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.35 ng

RT: 8.18 min Scan# 864

Delta R.T. -0.01 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampled :

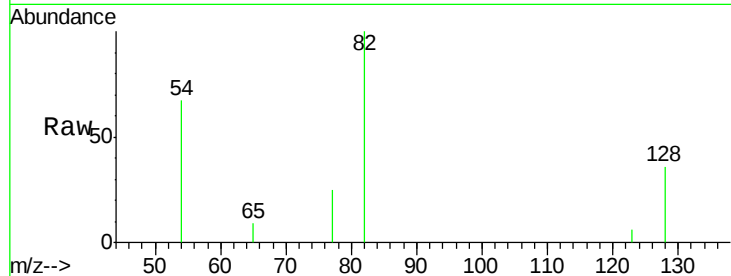
Tgt Ion: 82 Resp: 2626

Ion Ratio Lower Upper

82 100

128 35.8 31.4 47.0

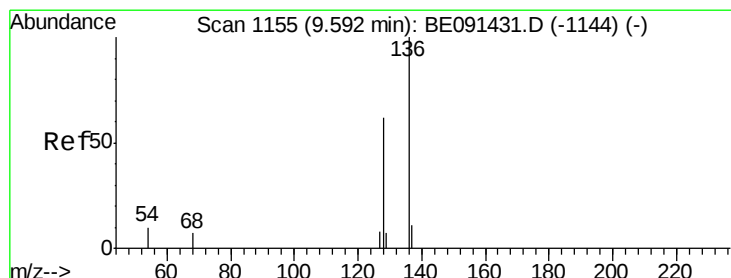
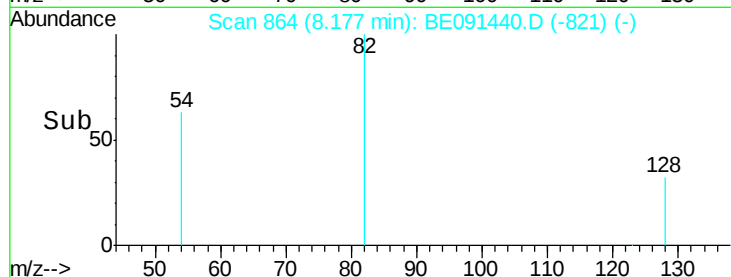
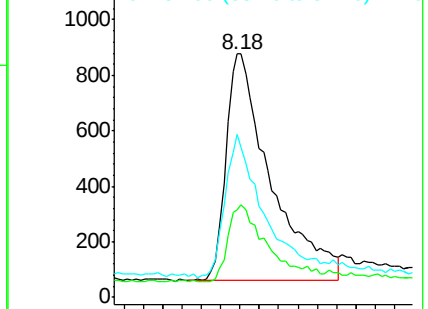
54 67.2 45.5 68.3



Abundance Ion 82.00 (81.70 to 82.70): BE091440.D (-821) (-)

Ion 128.00 (127.70 to 128.70): BE091440.D (-821) (-)

Ion 54.00 (53.70 to 54.70): BE091440.D (-821) (-)



#6

Naphthalene

Concen: 0.39 ng

RT: 9.58 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

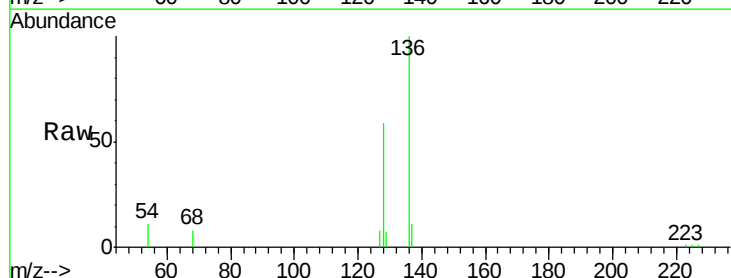
Tgt Ion: 128 Resp: 13148

Ion Ratio Lower Upper

128 100

129 11.8 9.4 14.0

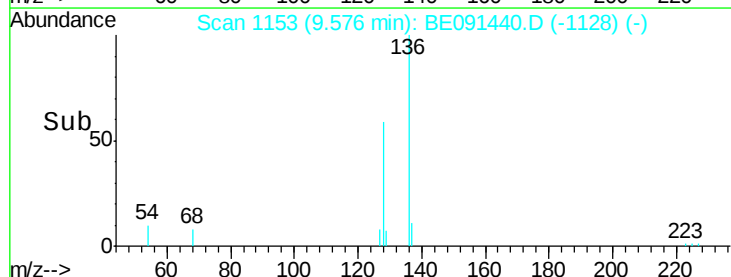
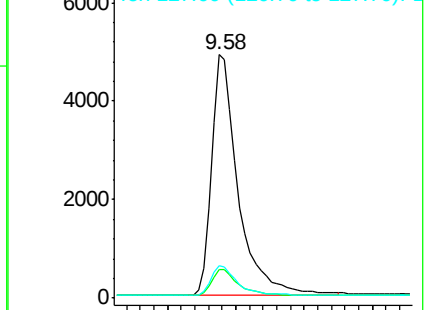
127 13.6 11.0 16.6

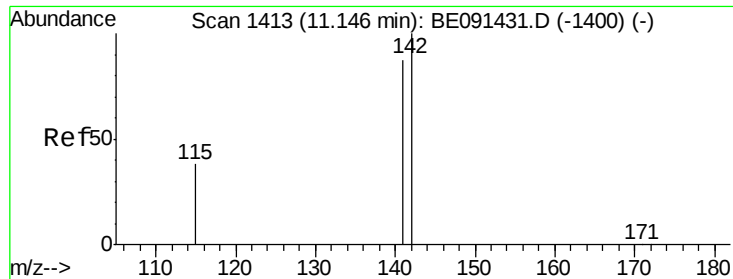


Abundance Ion 128.00 (127.70 to 128.70): BE091440.D (-1128) (-)

Ion 129.00 (128.70 to 129.70): BE091440.D (-1128) (-)

Ion 127.00 (126.70 to 127.70): BE091440.D (-1128) (-)





#7

2-Methylnaphthalene

Concen: 0.36 ng

RT: 11.14 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

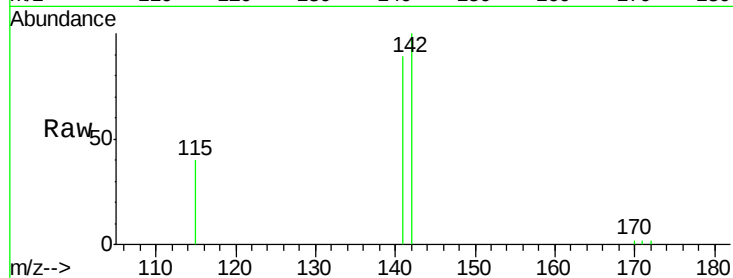
Tgt Ion:142 Resp: 7170

Ion Ratio Lower Upper

142 100

141 89.2 68.8 103.2

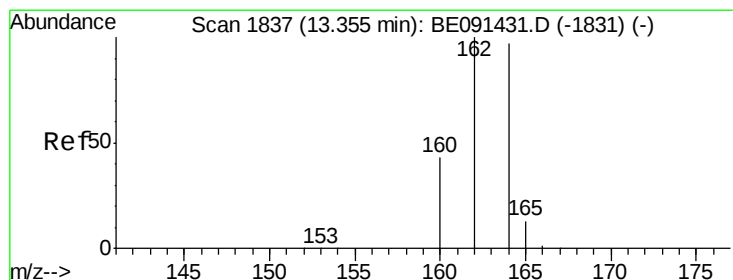
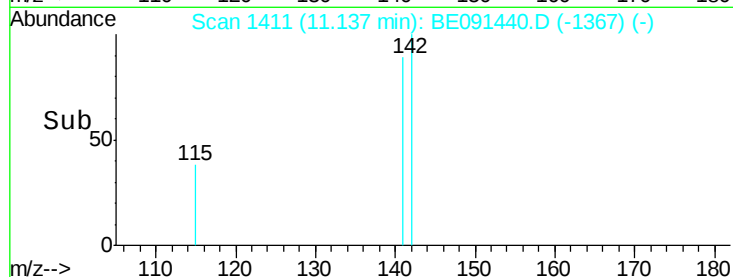
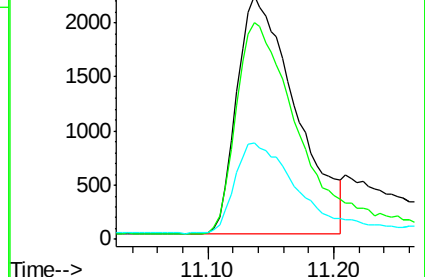
115 39.8 31.0 46.6



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 1835

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

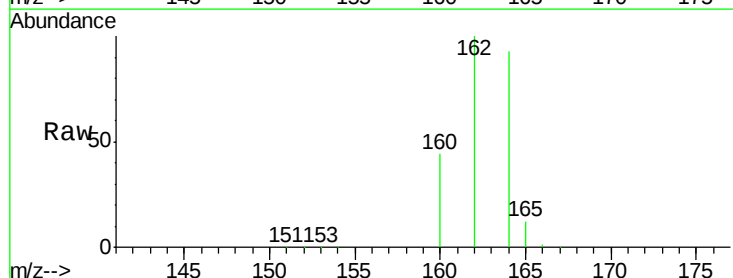
Tgt Ion:164 Resp: 81109

Ion Ratio Lower Upper

164 100

162 107.0 83.4 125.0

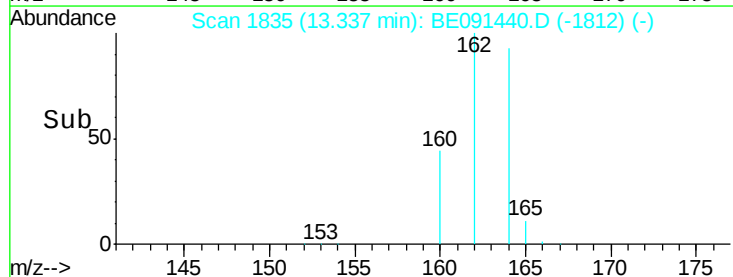
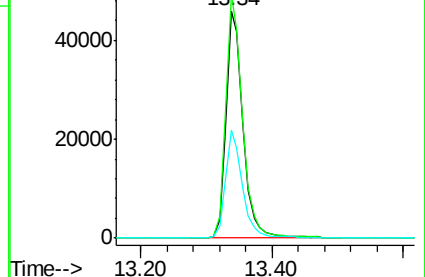
160 47.5 37.8 56.8

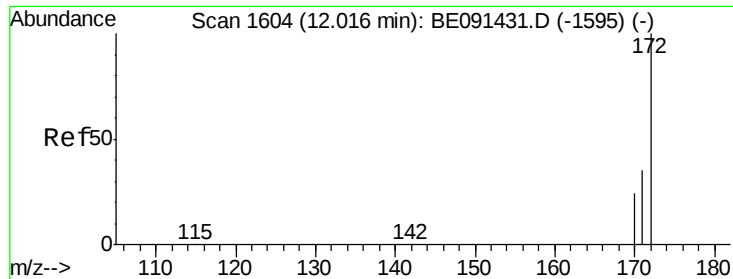


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

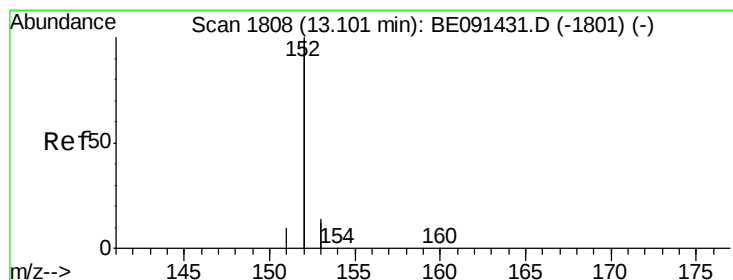
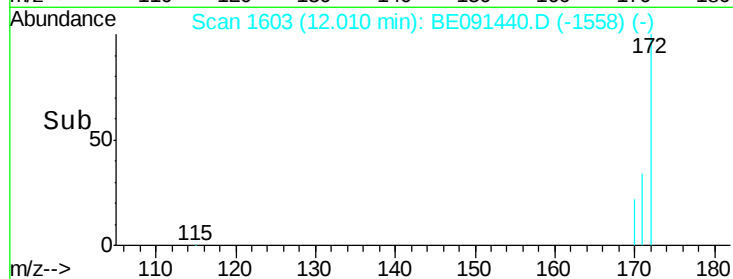
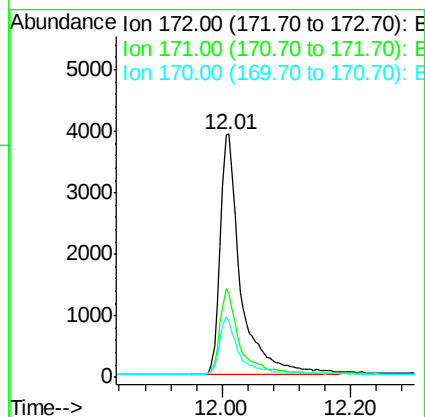
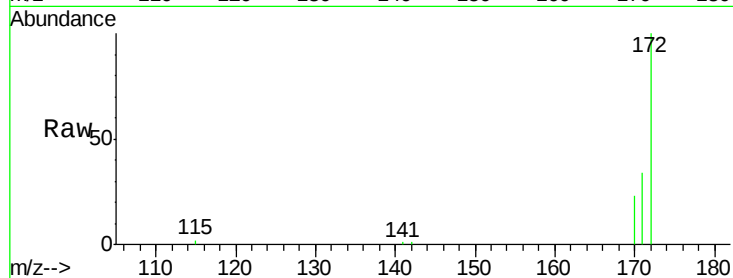




#9
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 12.01 min Scan# 1603
 Delta R.T. 0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

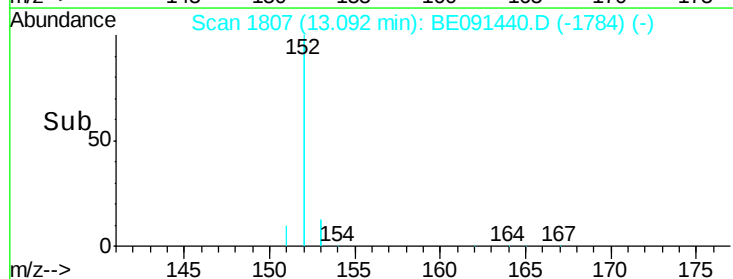
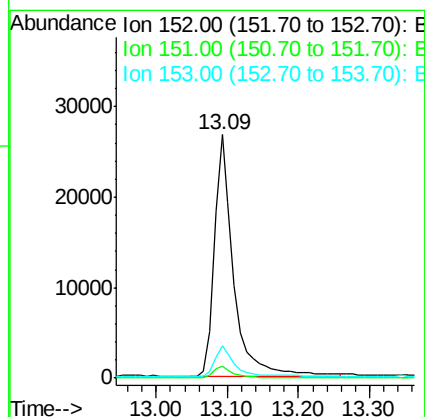
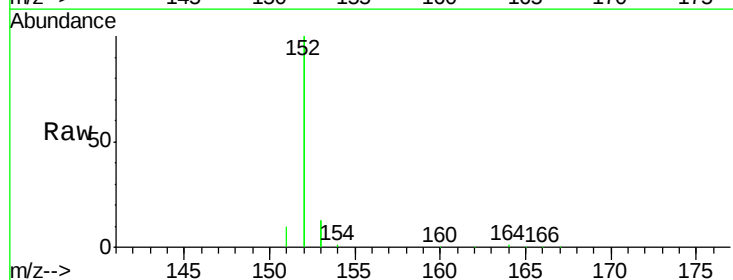
Instrument :
 BNA_F
 ClientSampleId :

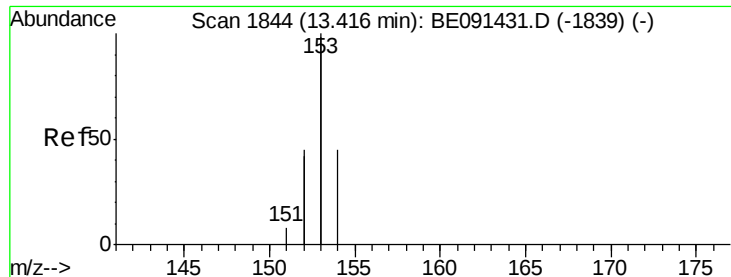
Tgt Ion:172 Resp: 8731
 Ion Ratio Lower Upper
 172 100
 171 34.4 27.8 41.8
 170 23.3 19.3 28.9



#10
 Acenaphthylene
 Concen: 0.36 ng
 RT: 13.09 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

Tgt Ion:152 Resp: 50579
 Ion Ratio Lower Upper
 152 100
 151 4.9 3.8 5.6
 153 13.0 10.4 15.6





#11

Acenaphthene

Concen: 0.38 ng

RT: 13.41 min Scan# 1843

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

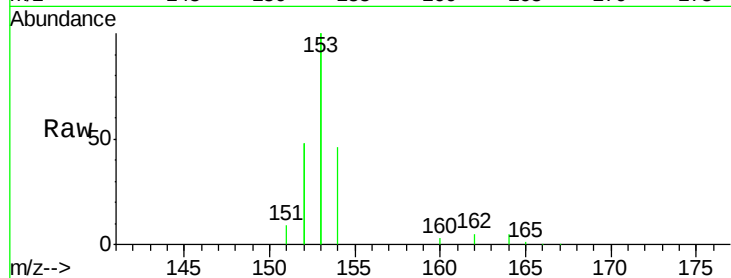
Tgt Ion:154 Resp: 9477

Ion Ratio Lower Upper

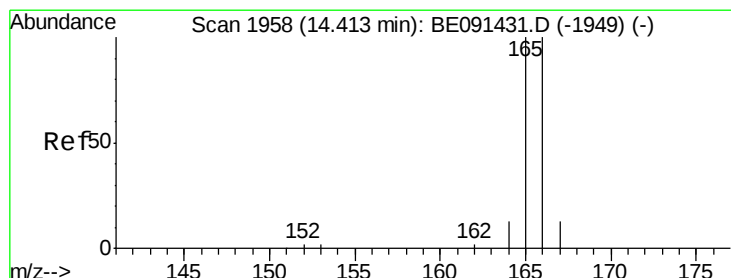
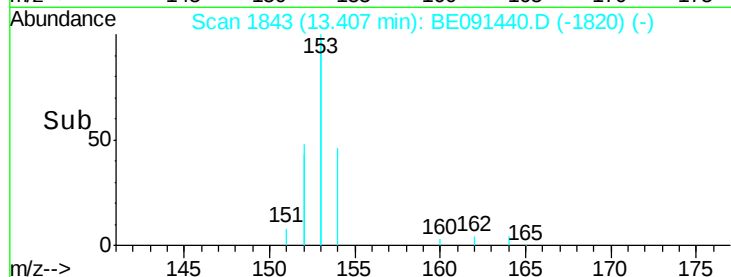
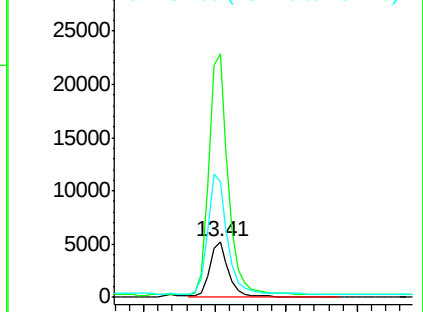
154 100

153 459.1 362.3 543.5

152 228.7 182.6 273.8



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



#12

Fluorene

Concen: 0.36 ng

RT: 14.40 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

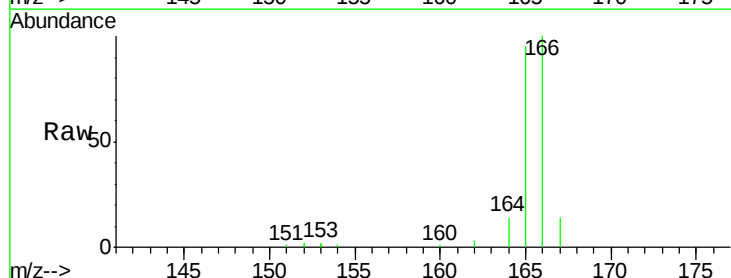
Tgt Ion:166 Resp: 12070

Ion Ratio Lower Upper

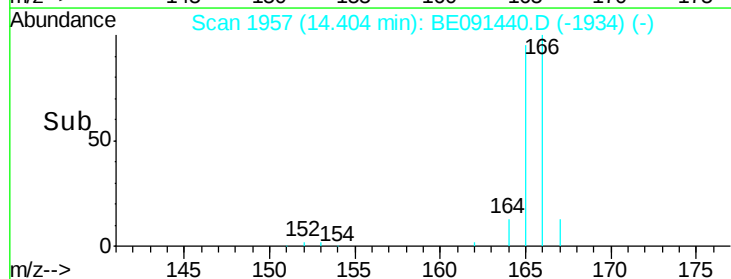
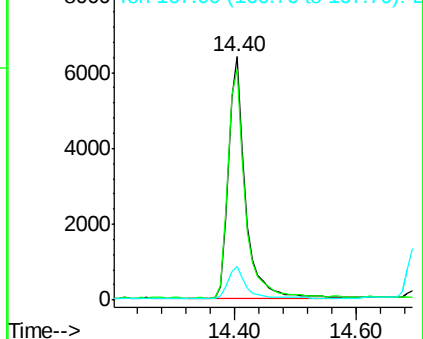
166 100

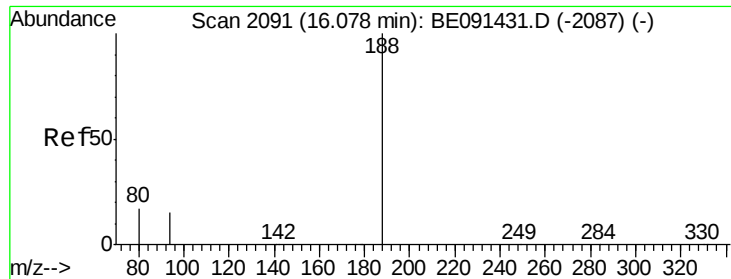
165 97.1 79.1 118.7

167 13.7 11.1 16.7



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

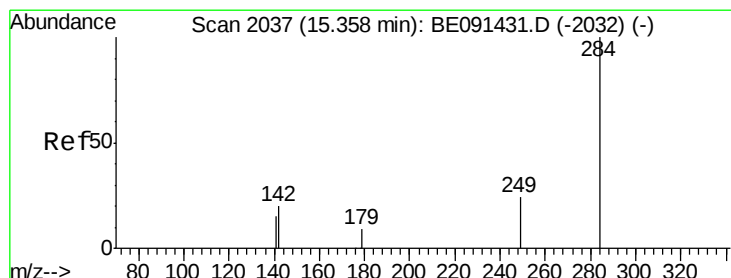
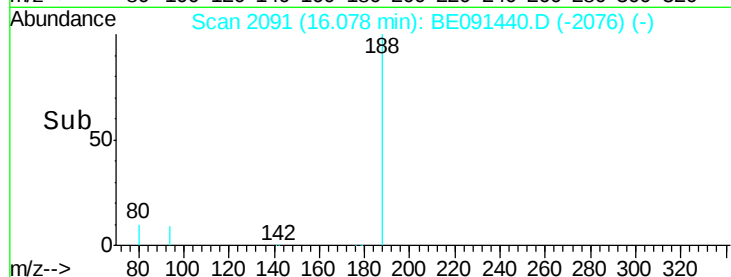
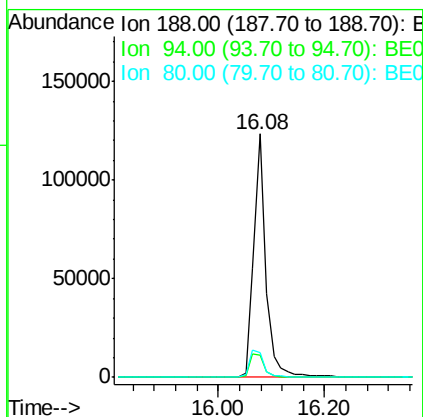
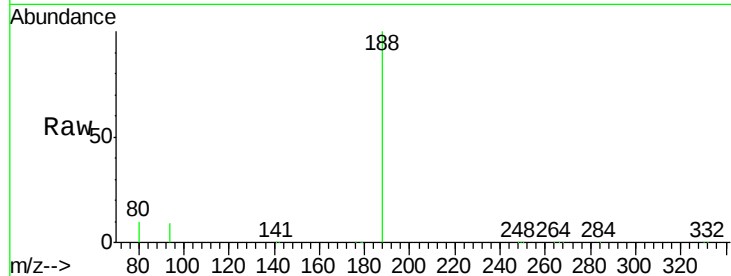




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.08 min Scan# 2091
Delta R.T. -0.00 min
Lab File: BE091440.D
Acq: 3 Mar 2016 2:25

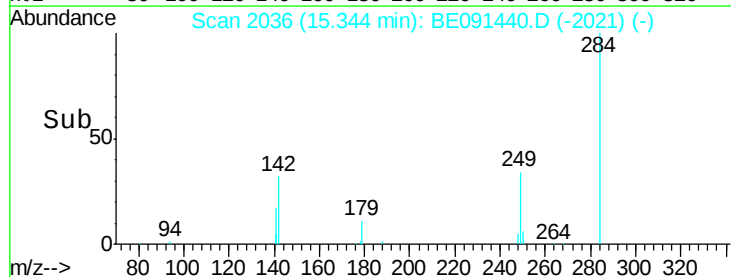
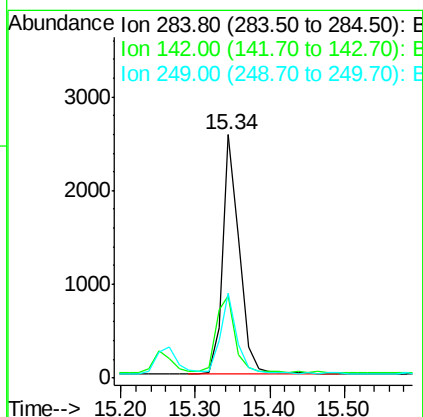
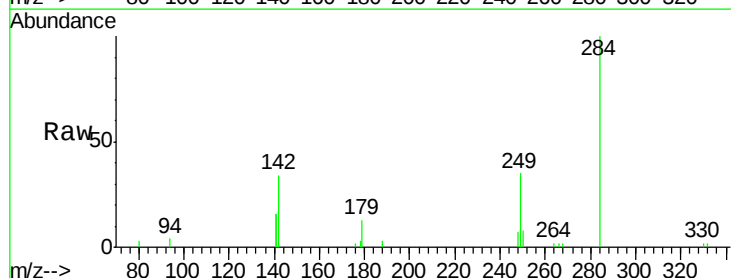
Instrument :
BNA_F
ClientSampleId :

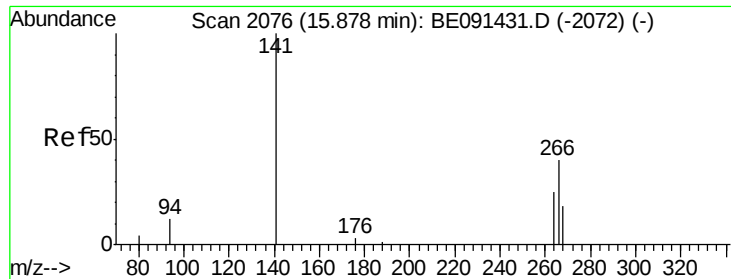
Tgt Ion:188 Resp: 197511
Ion Ratio Lower Upper
188 100
94 9.3 7.0 10.6
80 10.1 7.5 11.3



#14
Hexachlorobenzene
Concen: 0.38 ng
RT: 15.34 min Scan# 2036
Delta R.T. -0.00 min
Lab File: BE091440.D
Acq: 3 Mar 2016 2:25

Tgt Ion:284 Resp: 3957
Ion Ratio Lower Upper
284 100
142 36.6 30.4 45.6
249 33.2 26.5 39.7

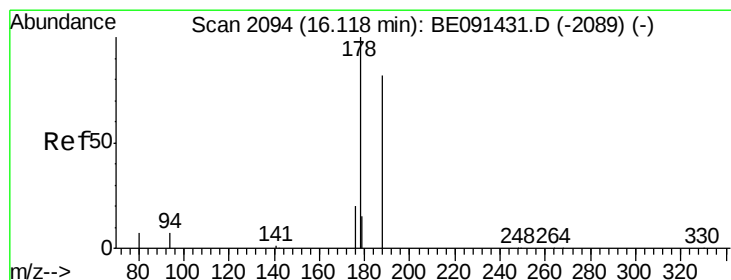
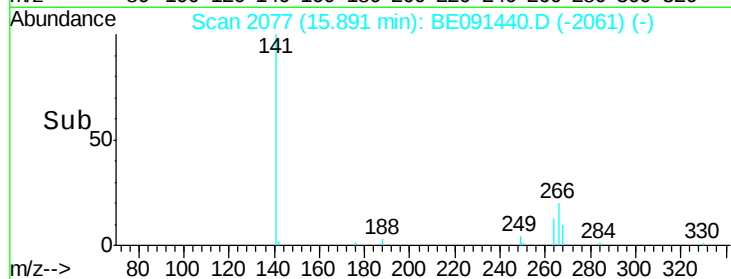
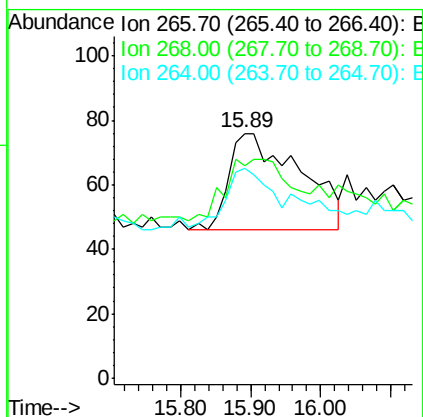
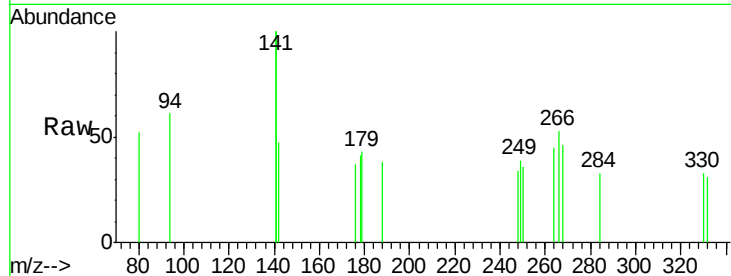




#15
 Pentachlorophenol
 Concen: 0.13 ng
 RT: 15.89 min Scan# 2077
 Delta R.T. 0.01 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

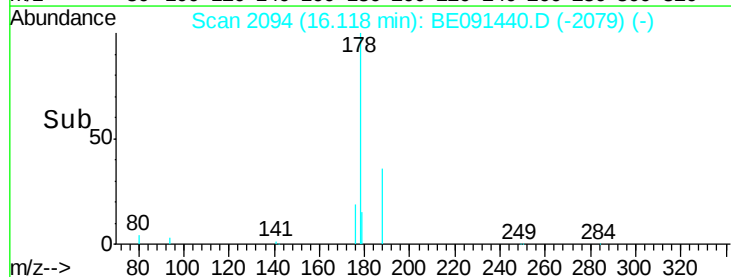
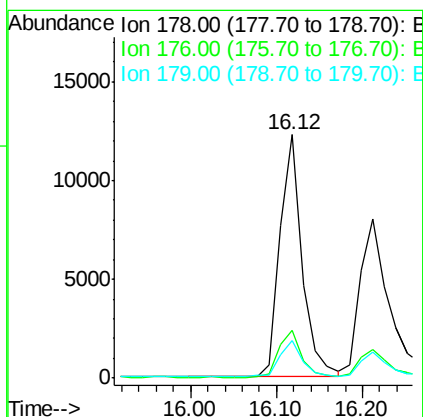
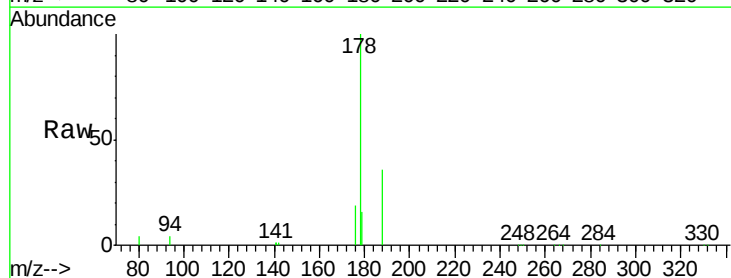
Instrument :
 BNA_F
 ClientSampled :

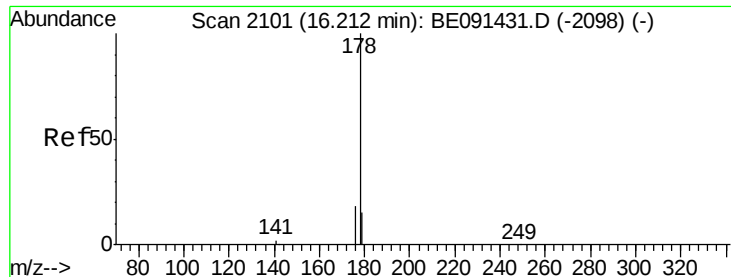
Tgt Ion: 266 Resp: 211
 Ion Ratio Lower Upper
 266 100
 268 86.8 65.4 98.2
 264 85.5 61.2 91.8



#16
 Phenanthrene
 Concen: 0.37 ng
 RT: 16.12 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

Tgt Ion: 178 Resp: 21994
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.0 22.4
 179 15.6 12.6 19.0

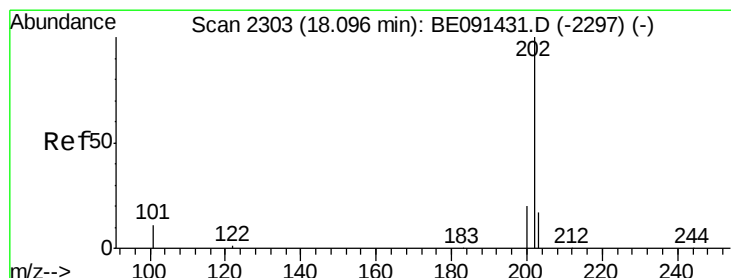
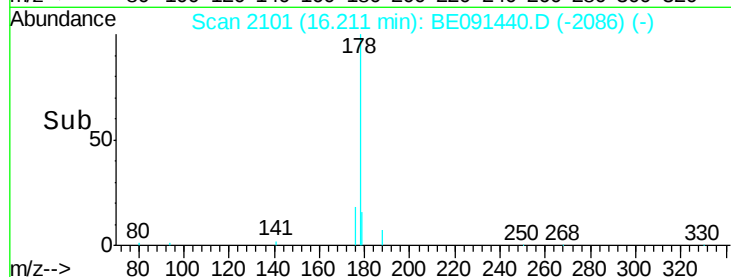
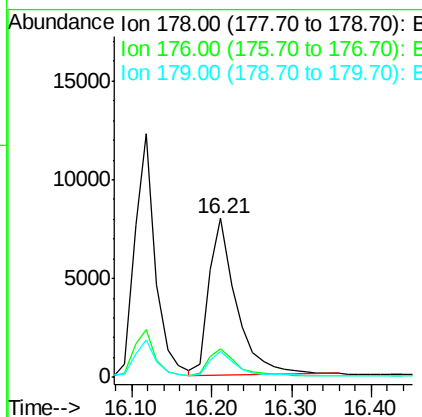
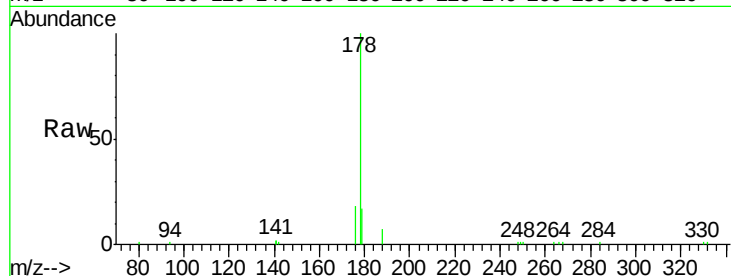




#17
 Anthracene
 Concen: 0.36 ng
 RT: 16.21 min Scan# 2101
 Delta R.T. -0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

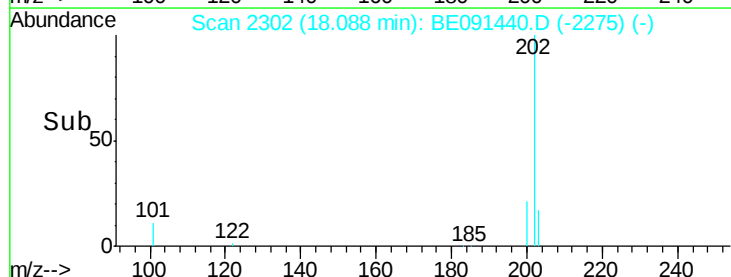
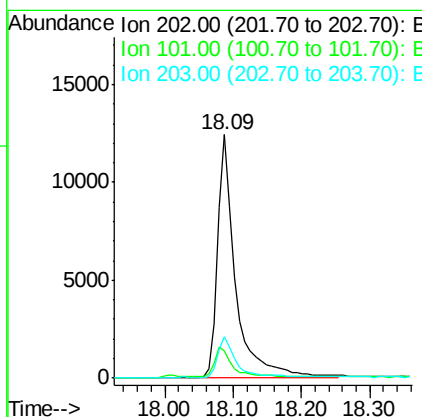
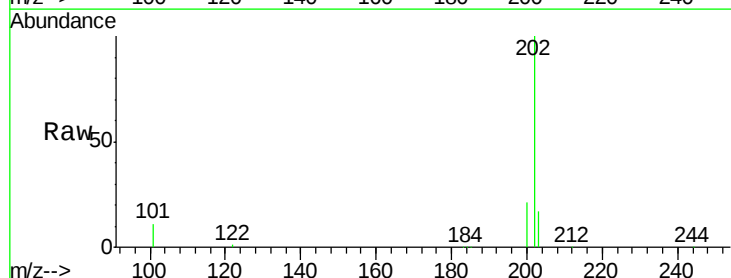
Instrument :
 BNA_F
 ClientSampleId :

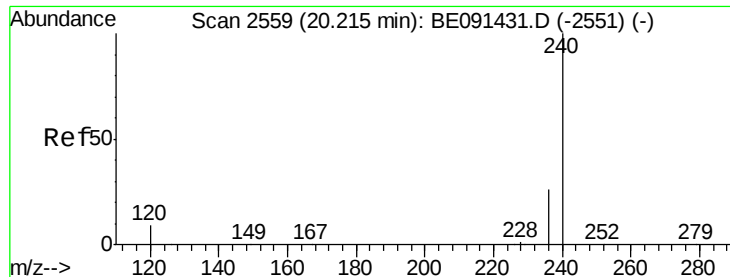
Tgt Ion:178 Resp: 18834
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.7 22.1
 179 15.4 13.0 19.4



#18
 Fluoranthene
 Concen: 0.36 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

Tgt Ion:202 Resp: 22520
 Ion Ratio Lower Upper
 202 100
 101 12.5 10.3 15.5
 203 17.2 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

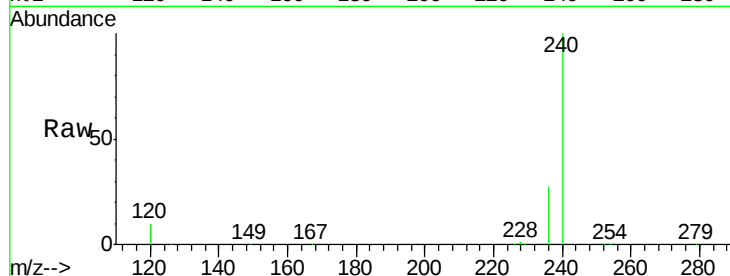
Tgt Ion:240 Resp: 263709

Ion Ratio Lower Upper

240 100

120 10.4 9.4 14.2

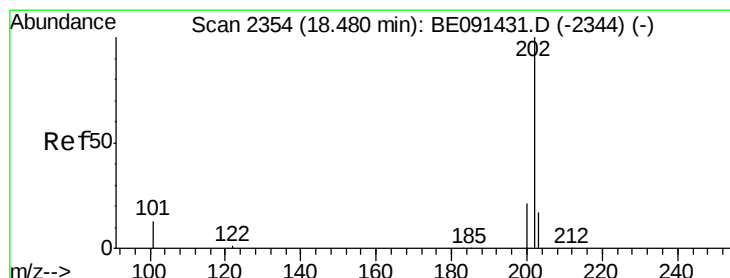
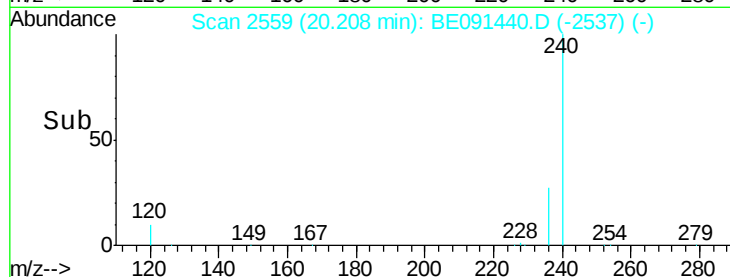
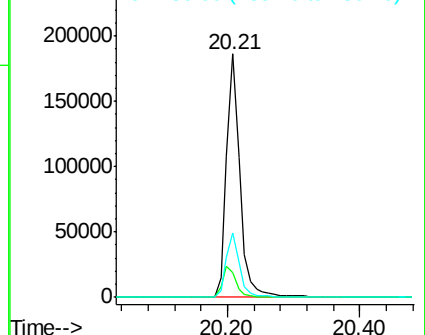
236 26.5 21.5 32.3



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



#20

Pyrene

Concen: 0.37 ng

RT: 18.47 min Scan# 2353

Delta R.T. -0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

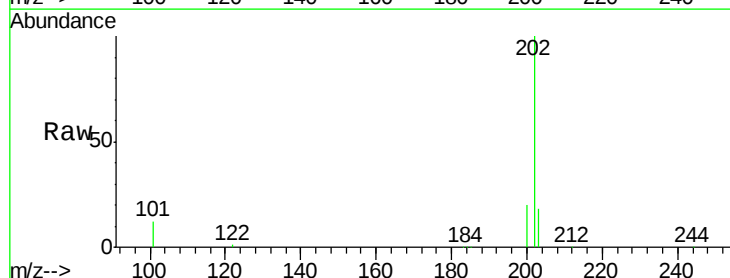
Tgt Ion:202 Resp: 23825

Ion Ratio Lower Upper

202 100

200 20.7 16.9 25.3

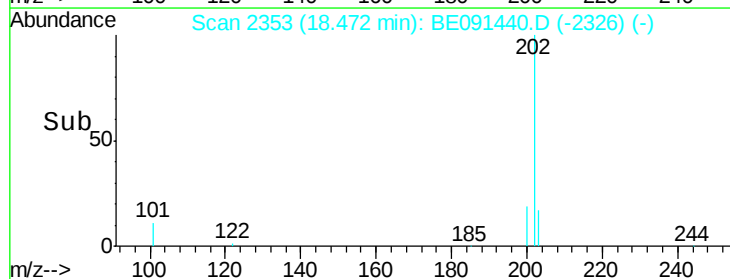
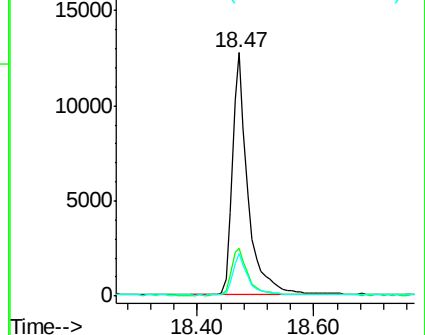
203 17.1 13.9 20.9

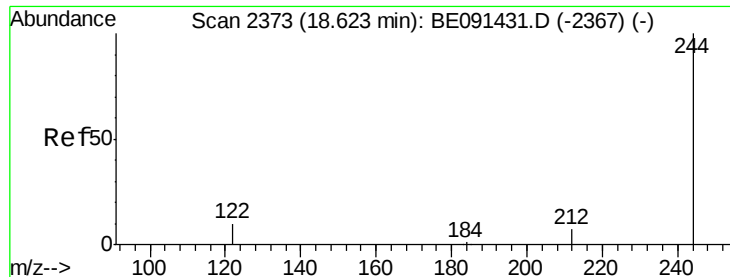


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

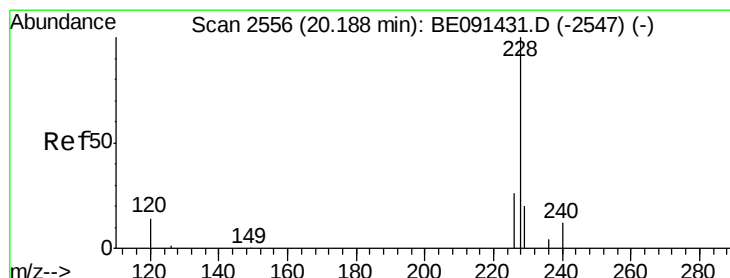
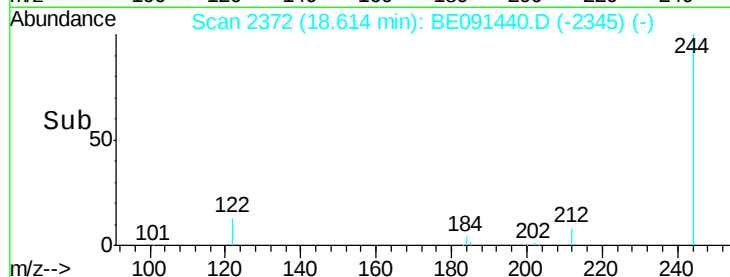
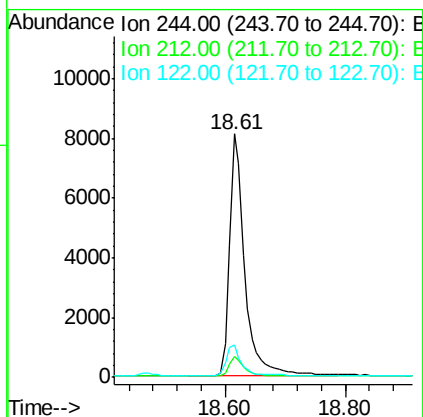
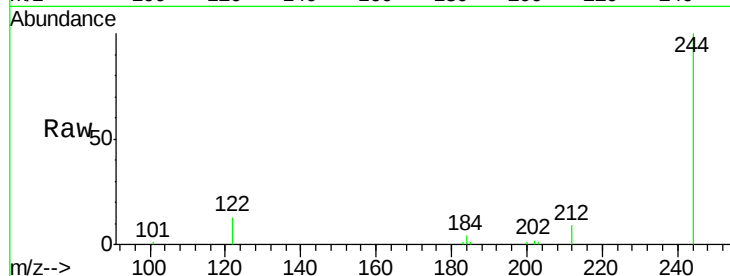




#21
 Terphenyl-d14
 Concen: 0.38 ng
 RT: 18.61 min Scan# 2372
 Delta R.T. -0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

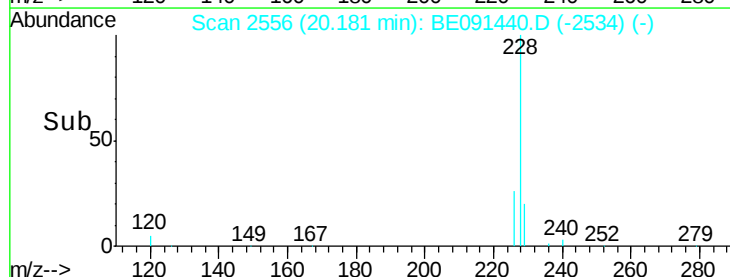
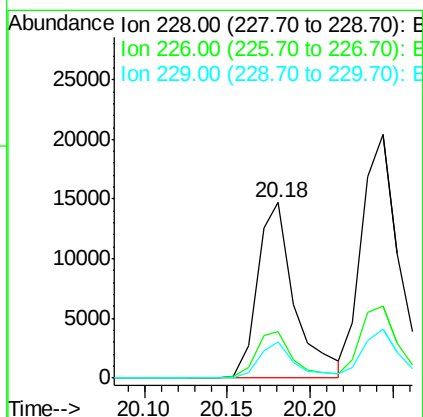
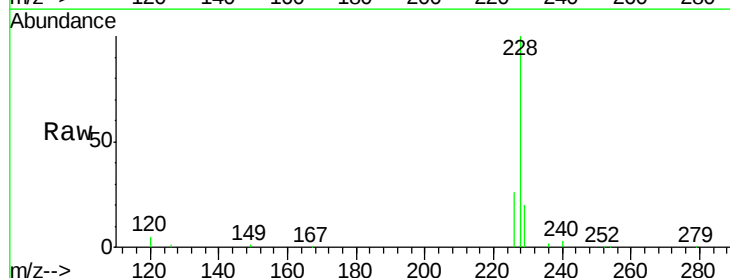
Instrument :
 BNA_F
 ClientSampled :

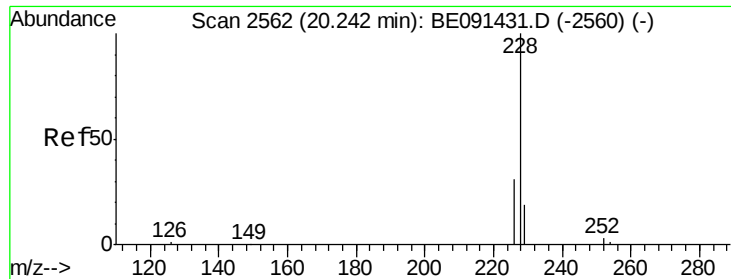
Tgt Ion: 244 Resp: 14429
 Ion Ratio Lower Upper
 244 100
 212 8.5 7.2 10.8
 122 13.4 11.1 16.7



#22
 Benzo(a)anthracene
 Concen: 0.34 ng
 RT: 20.18 min Scan# 2556
 Delta R.T. 0.00 min
 Lab File: BE091440.D
 Acq: 3 Mar 2016 2:25

Tgt Ion: 228 Resp: 22891
 Ion Ratio Lower Upper
 228 100
 226 26.5 20.8 31.2
 229 20.4 16.6 25.0





#23

Chrysene

Concen: 0.38 ng

RT: 20.24 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampled :

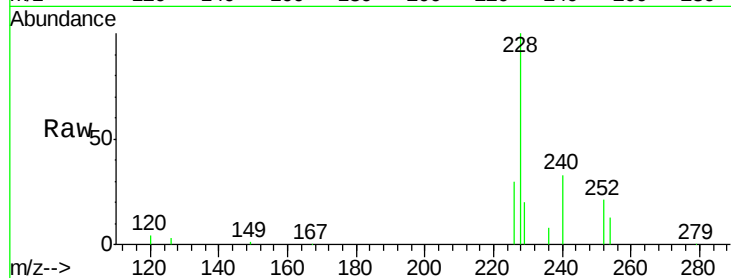
Tgt Ion:228 Resp: 32746

Ion Ratio Lower Upper

228 100

226 29.5 24.1 36.1

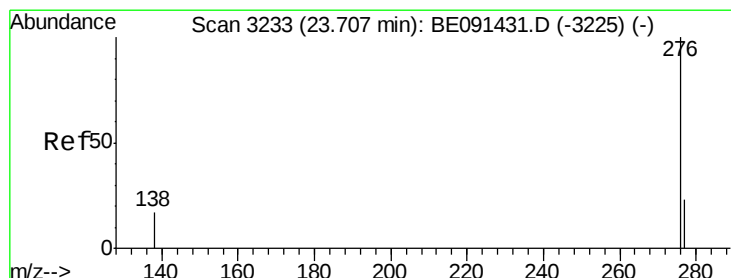
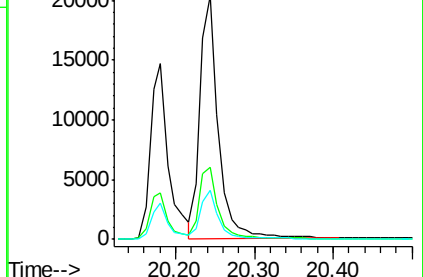
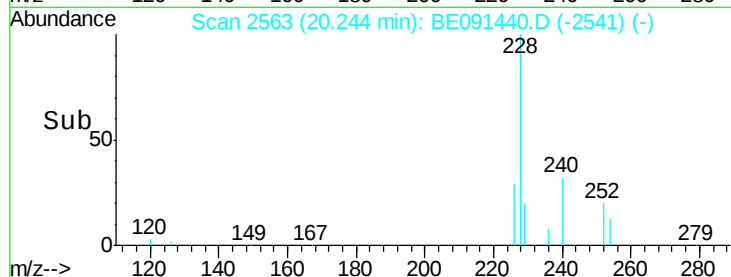
229 20.2 15.4 23.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.32 ng

RT: 23.69 min Scan# 3230

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

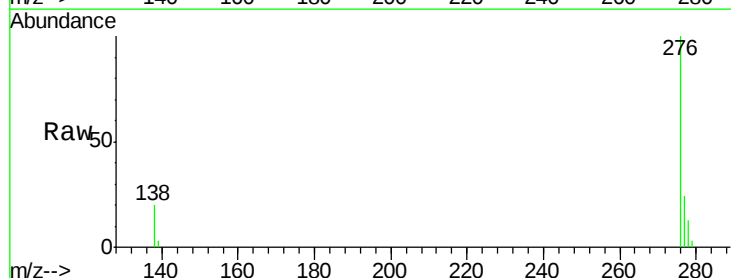
Tgt Ion:276 Resp: 27789

Ion Ratio Lower Upper

276 100

138 18.8 16.3 24.5

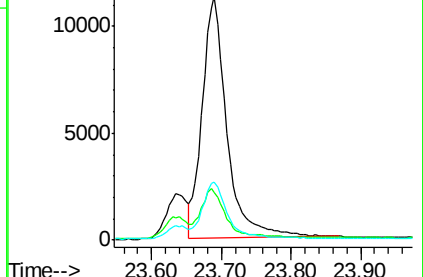
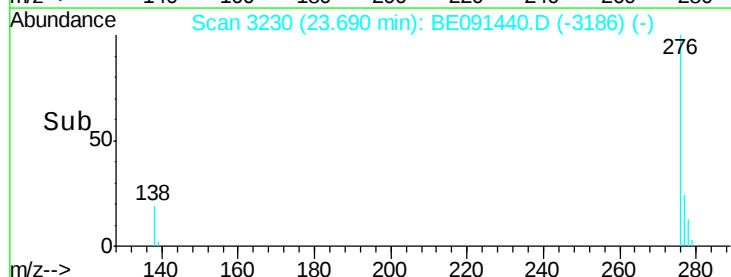
277 24.2 18.1 27.1

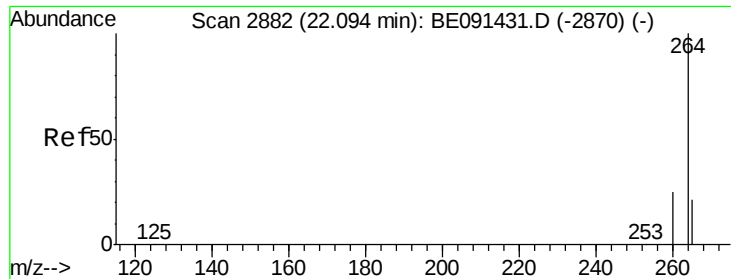


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Perylene-d12

Concen: 5.00 ng

RT: 22.09 min Scan# 2882

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

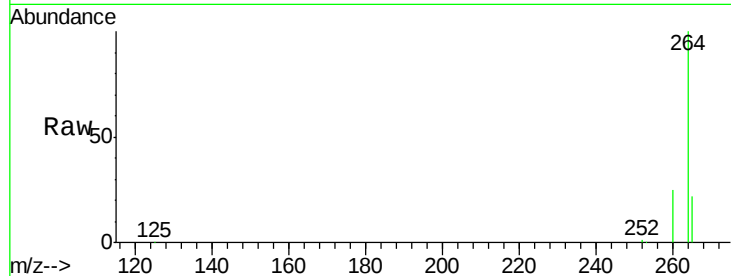
Tgt Ion:264 Resp: 282108

Ion Ratio Lower Upper

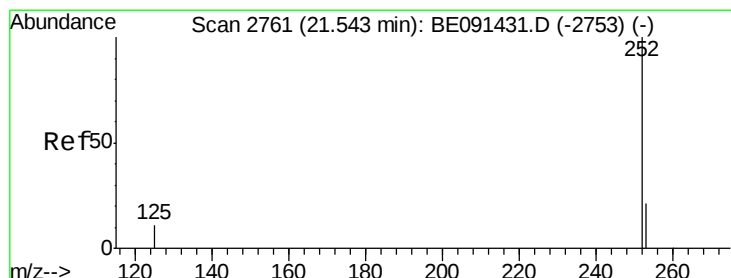
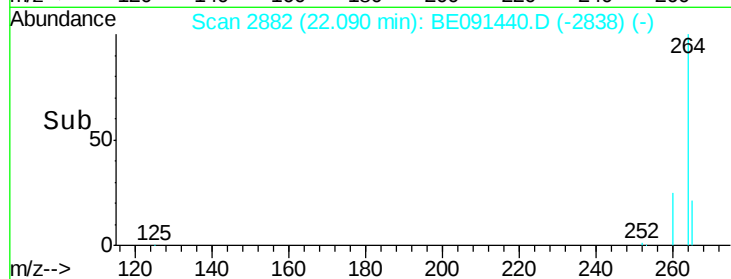
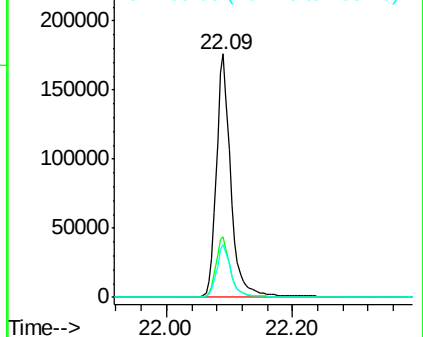
264 100

260 24.8 20.2 30.2

265 21.5 17.2 25.8



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



#26

Benzo(b)fluoranthene

Concen: 0.36 ng

RT: 21.54 min Scan# 2762

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

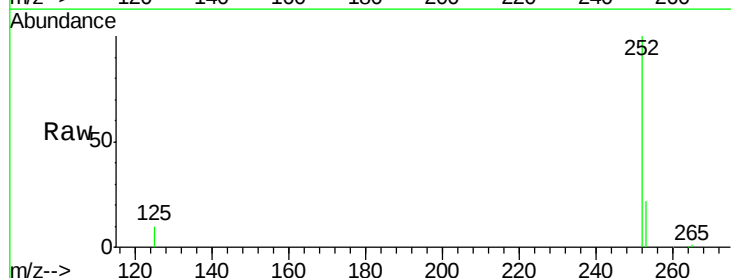
Tgt Ion:252 Resp: 27815

Ion Ratio Lower Upper

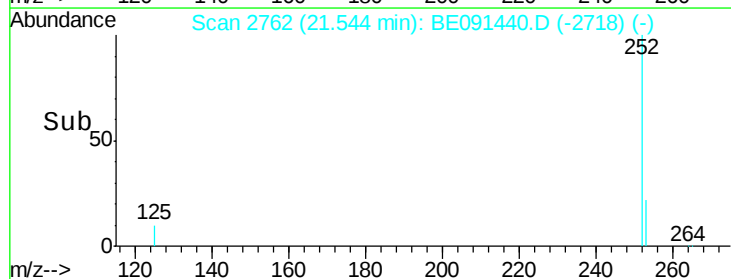
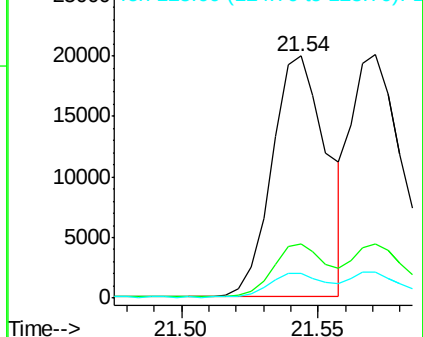
252 100

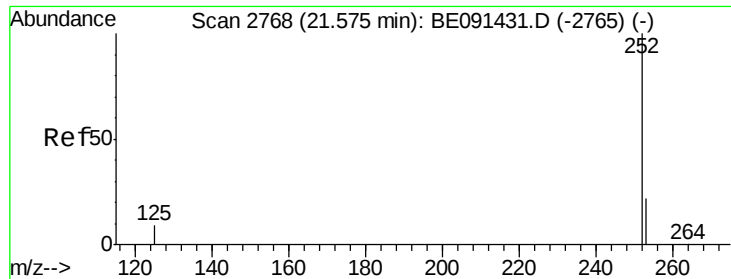
253 22.5 17.8 26.6

125 10.4 8.6 12.8



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





#27

Benzo(k)fluoranthene

Concen: 0.35 ng

RT: 21.57 min Scan# 2768

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :

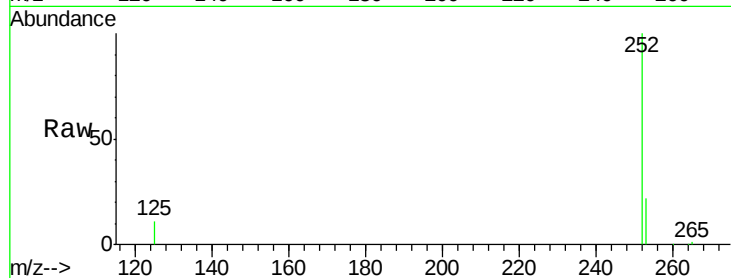
Tgt Ion:252 Resp: 30649

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

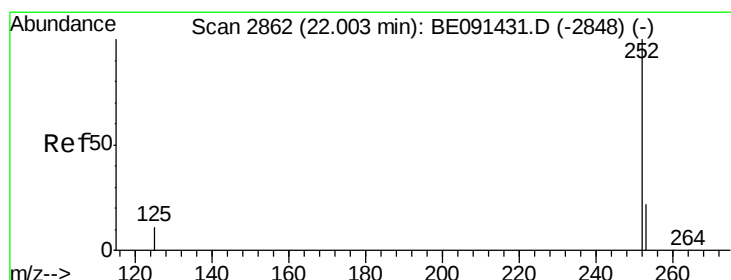
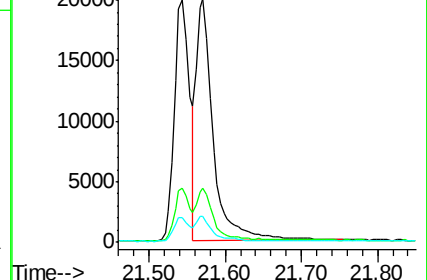
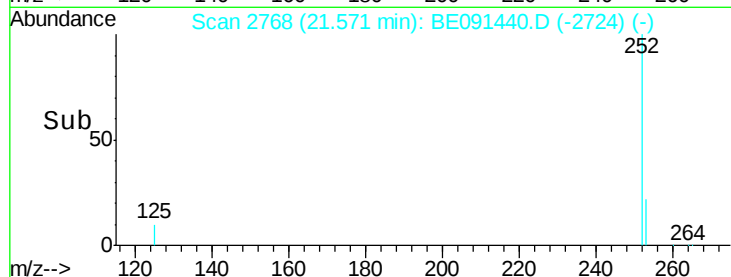
125 10.6 8.4 12.6



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



#28

Benzo(a)pyrene

Concen: 0.34 ng

RT: 21.99 min Scan# 2861

Delta R.T. -0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

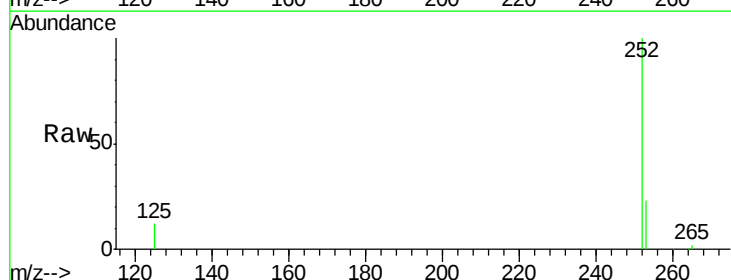
Tgt Ion:252 Resp: 24960

Ion Ratio Lower Upper

252 100

253 22.5 18.8 28.2

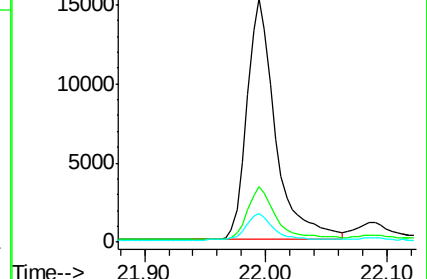
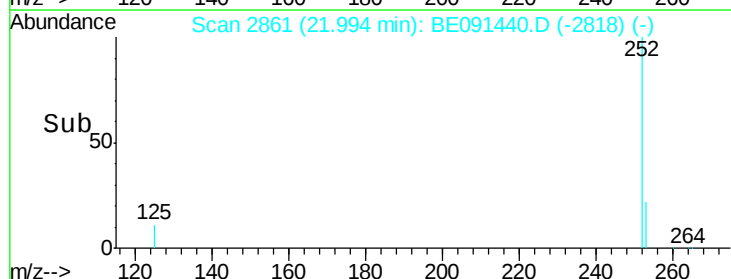
125 12.0 9.3 13.9

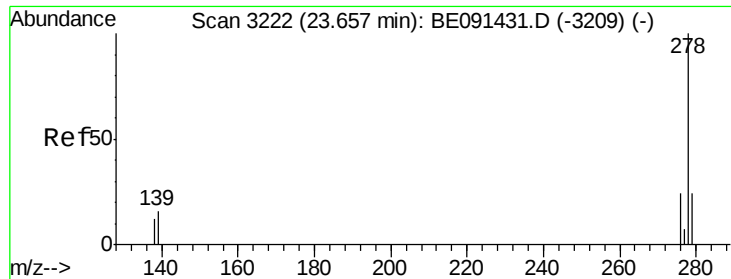


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.32 ng

RT: 23.63 min Scan# 3218

Delta R.T. -0.00 min

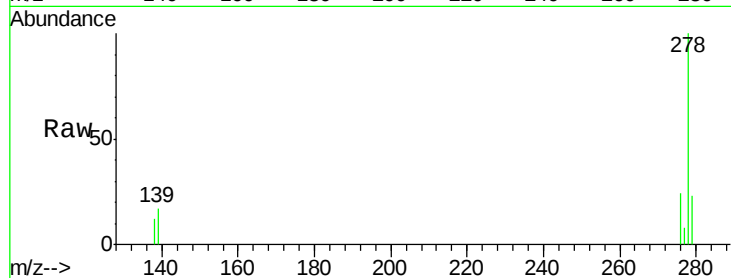
Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Instrument :

BNA_F

ClientSampleId :



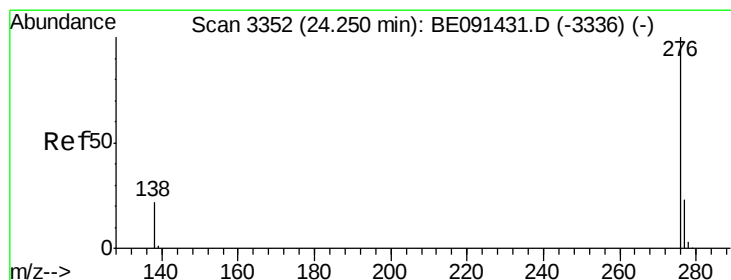
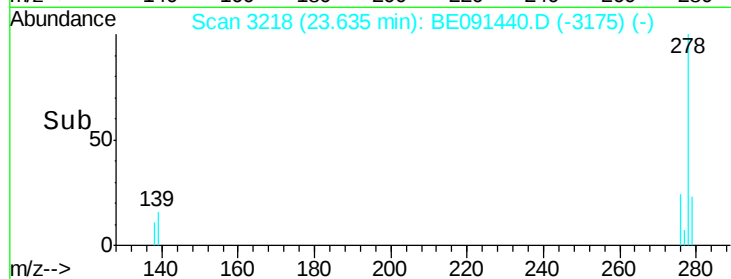
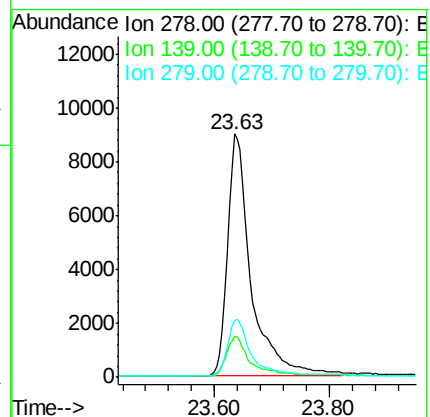
Tgt Ion: 278 Resp: 26056

Ion Ratio Lower Upper

278 100

139 16.8 13.4 20.0

279 23.4 19.3 28.9



#30

Benzo(g,h,i)perylene

Concen: 0.32 ng

RT: 24.24 min Scan# 3351

Delta R.T. 0.00 min

Lab File: BE091440.D

Acq: 3 Mar 2016 2:25

Tgt Ion: 276 Resp: 28599

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 21.9 18.6 28.0

