

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040116\
 Data File : BE091585.D
 Acq On : 31 Mar 2016 15:22
 Operator : UM/SJ
 Sample : H1946-12
 Misc : LOO WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 01 00:46:01 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	36889	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	171324	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	104748	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	268717	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	373559	5.00	ng	-0.02
28) Perylene-d12	23.76	264	320264	5.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	30159	3.12	ng	-0.02
5) Phenol-d6	6.97	99	24791	1.90	ng	-0.02
7) Nitrobenzene-d5	8.96	82	44562	3.87	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	31630	6.81	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	132028	4.43	ng	-0.02
24) Terphenyl-d14	19.76	244	231159	4.88	ng	-0.02

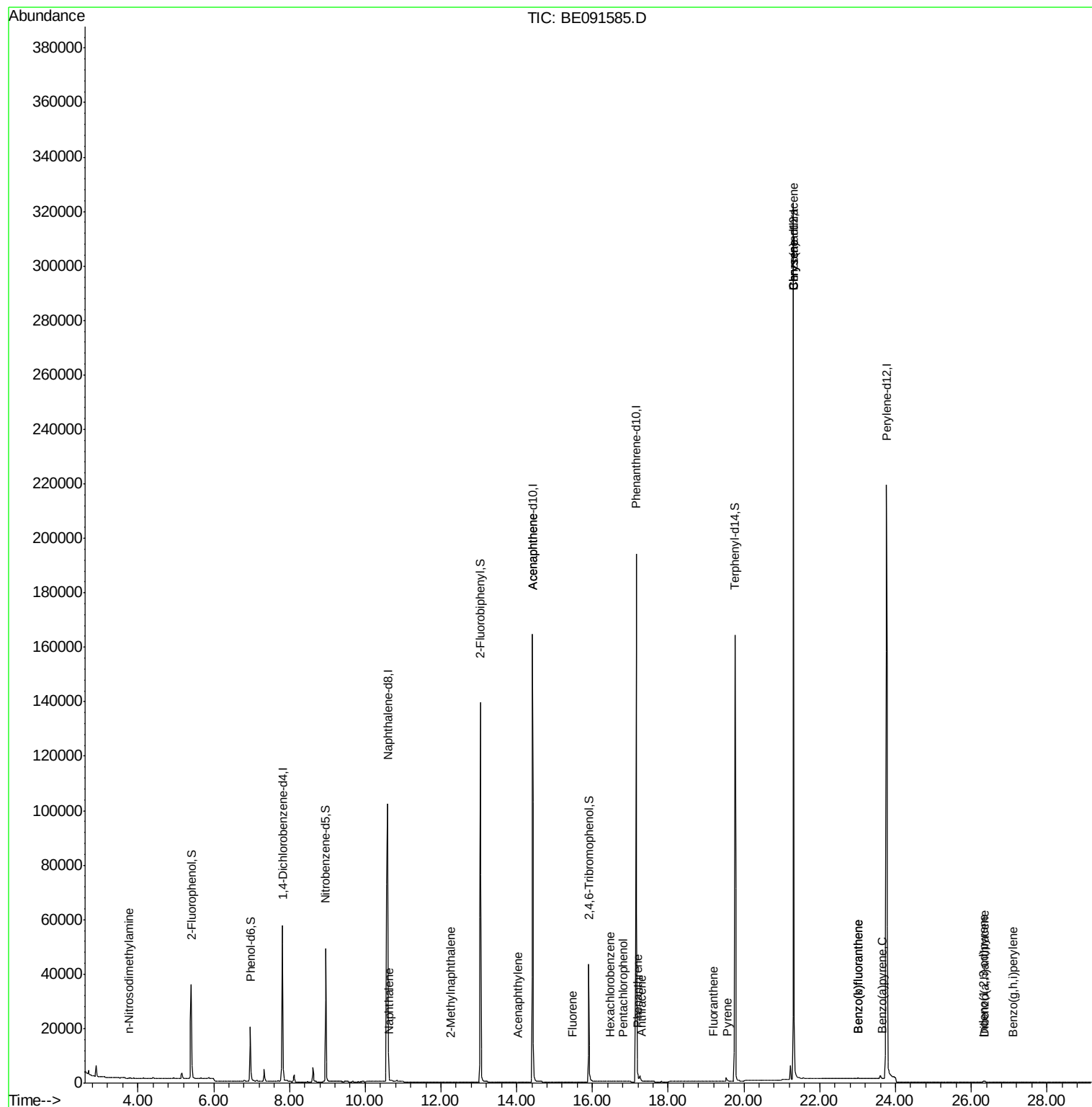
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.76	42	38	0.01	ng	# 4
8) Naphthalene	10.63	128	203	0.01	ng	# 27
9) 2-Methylnaphthalene	12.25	142	56	0.00	ng	# 53
13) Acenaphthylene	14.04	152	280	0.01	ng	# 1
14) Acenaphthene	14.42	154	422	0.02	ng	# 13
15) Fluorene	15.47	166	94	0.00	ng	# 91
17) Hexachlorobenzene	16.46	284	15	0.00	ng	# 39
18) Pentachlorophenol	16.81	266	120	0.02	ng	# 75
19) Phenanthrene	17.20	178	820	0.01	ng	# 80
20) Anthracene	17.29	178	76	0.00	ng	# 76
21) Fluoranthene	19.21	202	282	0.00	ng	# 89
23) Pyrene	19.57	202	220	0.00	ng	# 80
25) Benzo(a)anthracene	21.31	228	1349	0.02	ng	# 65
26) Chrysene	21.31	228	1360	0.02	ng	# 77
27) Indeno(1,2,3-cd)pyrene	26.33	276	387	0.00	ng	# 90
29) Benzo(b)fluoranthene	23.01	252	388	0.00	ng	# 1
30) Benzo(k)fluoranthene	23.01	252	388	0.01	ng	# 1
31) Benzo(a)pyrene	23.65	252	187	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.35	278	363	0.01	ng	# 1
33) Benzo(a,h,i)perylene	27.12	276	241	0.00	ng	# 1

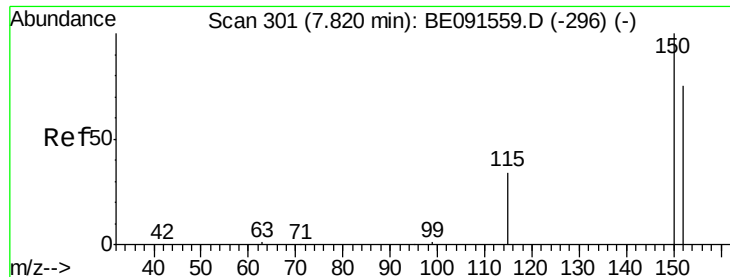
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. 0.00 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

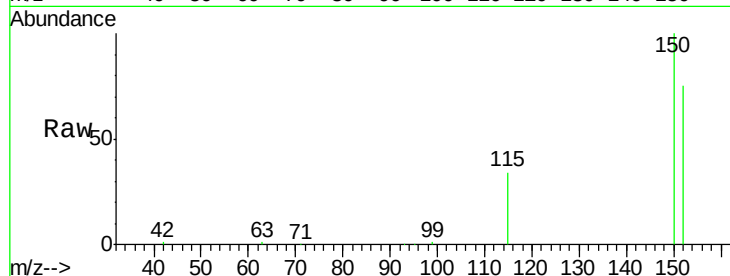
Tot Ion:152 Resp: 36889

Ion Ratio Lower Upper

152 100

150 134.0 122.2 183.2

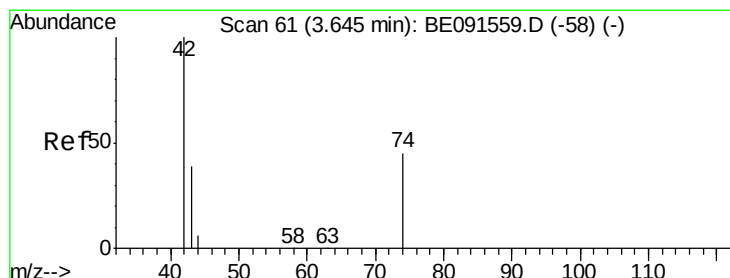
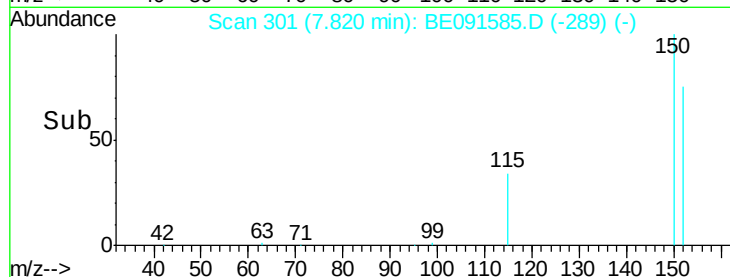
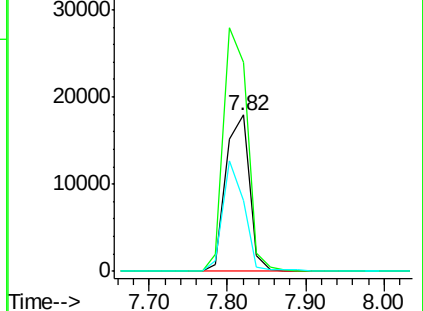
115 45.8 45.9 68.9#



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



#3

n-Nitrosodimethylamine

Concen: 0.01 ng

RT: 3.76 min Scan# 68

Delta R.T. 0.09 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

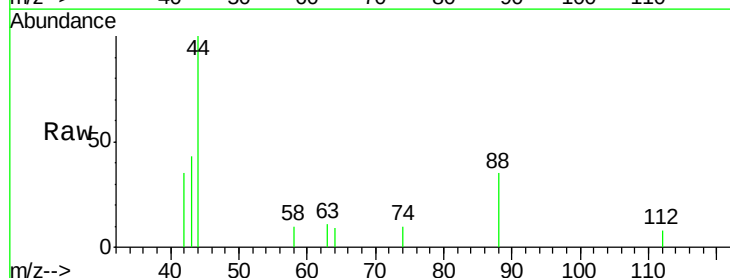
Tgt Ion: 42 Resp: 38

Ion Ratio Lower Upper

42 100

74 0.0 84.3 126.5#

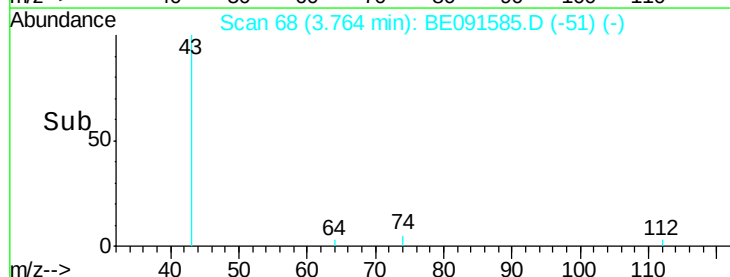
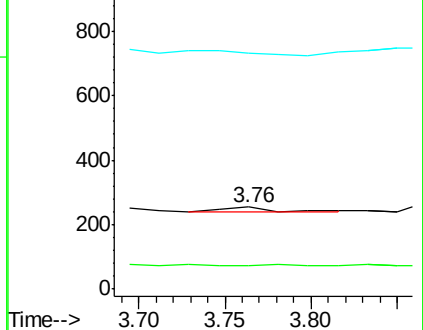
44 0.0 6.7 10.1#

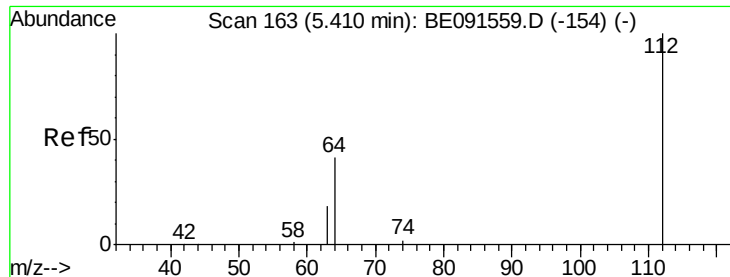


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 3.12 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

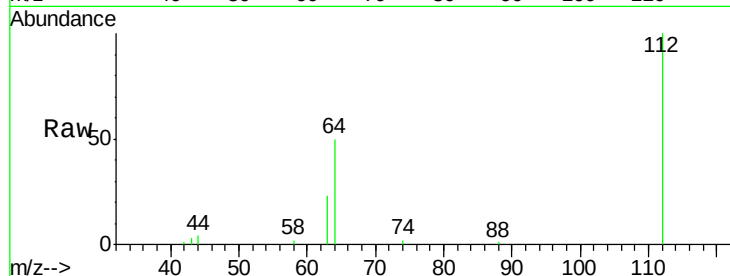
Tot Ion:112 Resp: 30159

Ion Ratio Lower Upper

112 100

64 67.8 53.3 79.9

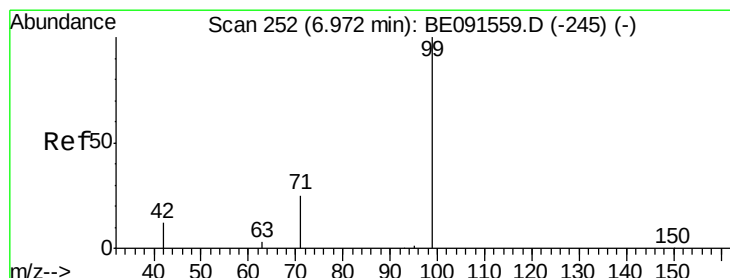
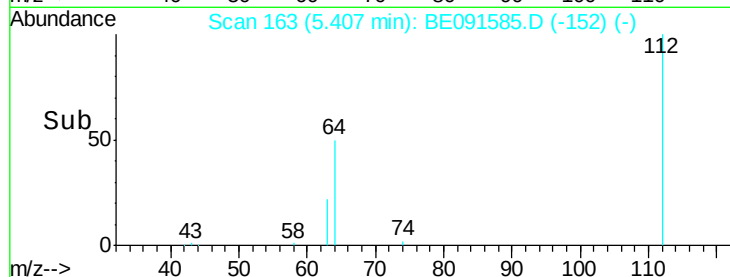
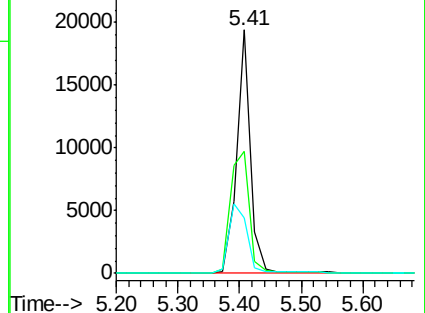
63 36.6 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE091559.D (-154) (-)

Ion 64.00 (63.70 to 64.70): BE091559.D (-154) (-)

Ion 63.00 (62.70 to 63.70): BE091559.D (-154) (-)



#5

Phenol-d6

Concen: 1.90 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

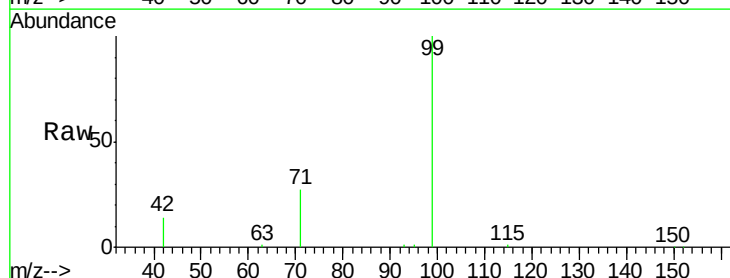
Tgt Ion: 99 Resp: 24791

Ion Ratio Lower Upper

99 100

42 24.9 20.6 30.8

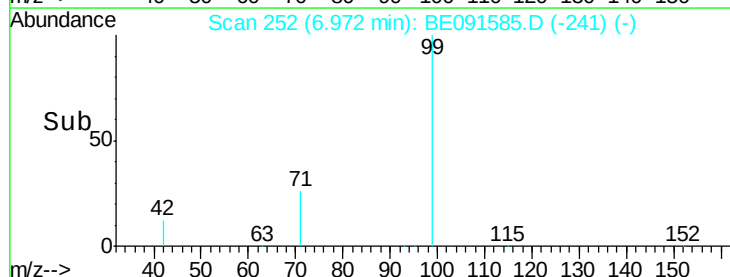
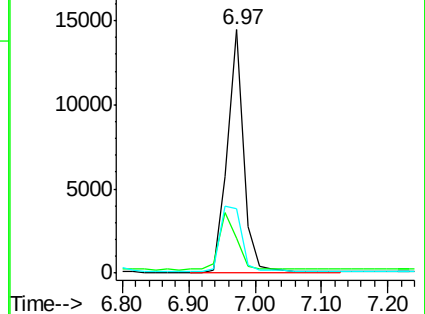
71 36.3 29.0 43.4

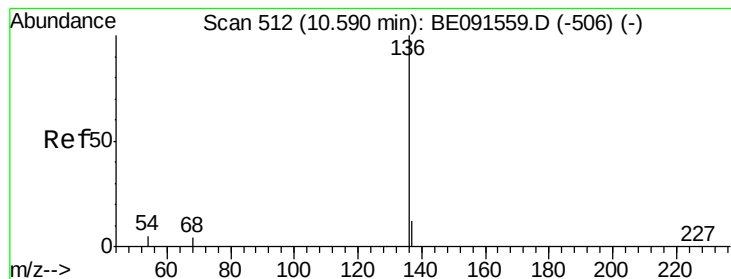


Abundance Ion 99.00 (98.70 to 99.70): BE091559.D (-245) (-)

Ion 42.00 (41.70 to 42.70): BE091559.D (-245) (-)

Ion 71.00 (70.70 to 71.70): BE091559.D (-245) (-)





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 171324

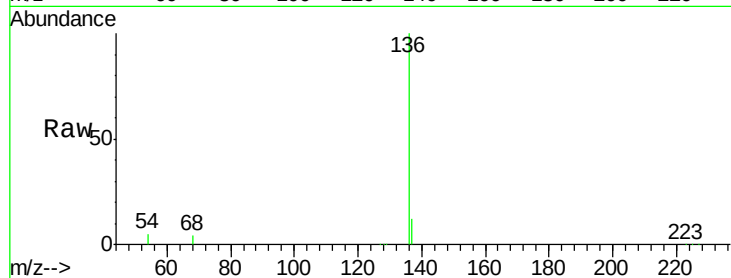
Ion Ratio Lower Upper

136 100

137 11.7 8.8 13.2

54 4.6 5.2 7.8#

68 3.8 4.1 6.1#

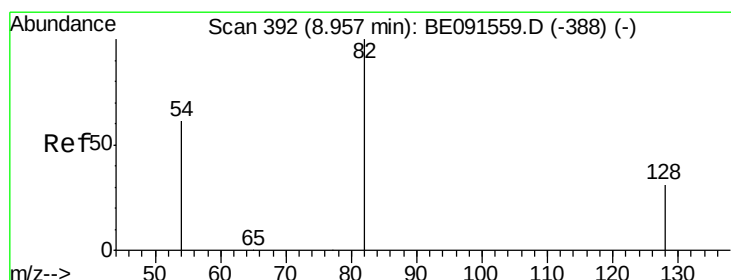
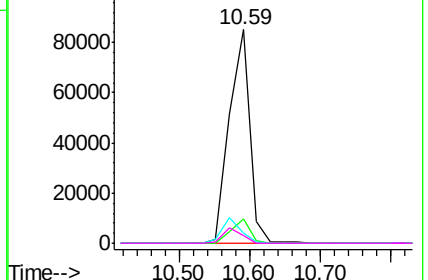
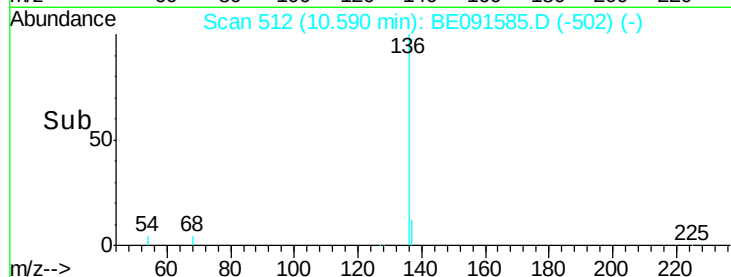


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#7

Nitrobenzene-d5

Concen: 3.87 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

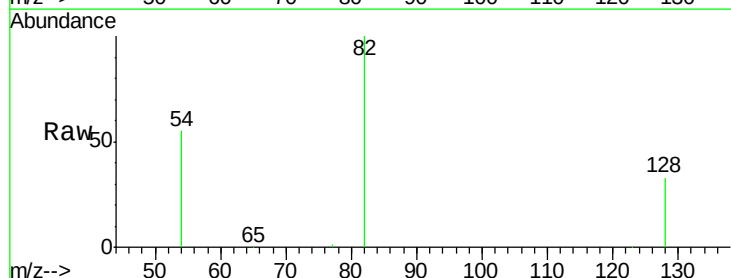
Tgt Ion: 82 Resp: 44562

Ion Ratio Lower Upper

82 100

128 32.6 23.5 35.3

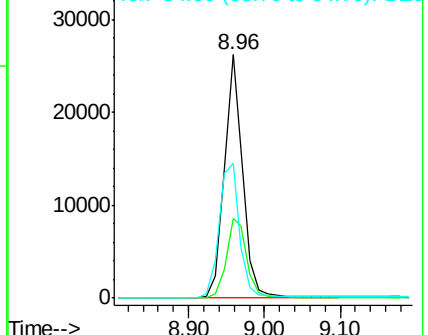
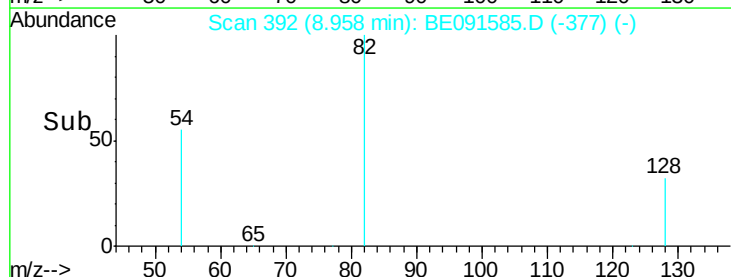
54 55.2 52.4 78.6

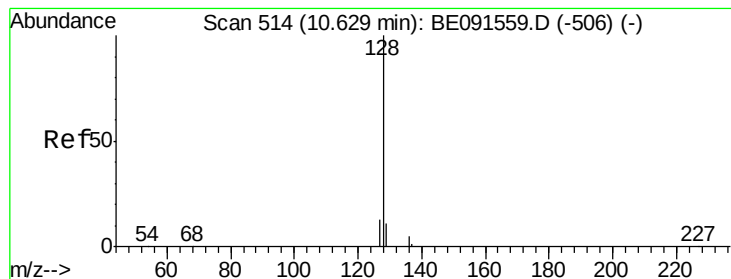


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.01 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampled :

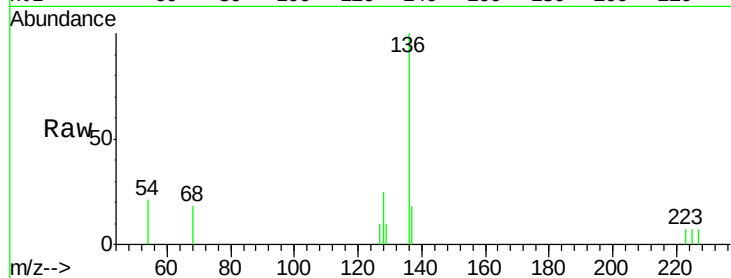
Tot Ion:128 Resp: 203

Ion Ratio Lower Upper

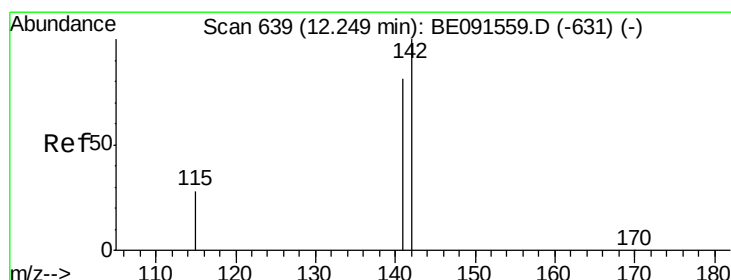
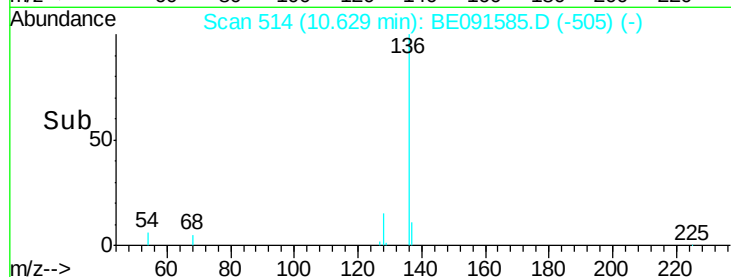
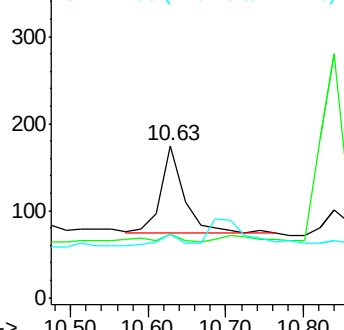
128 100

129 41.7 8.2 12.2#

127 41.7 11.8 17.8#



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



#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

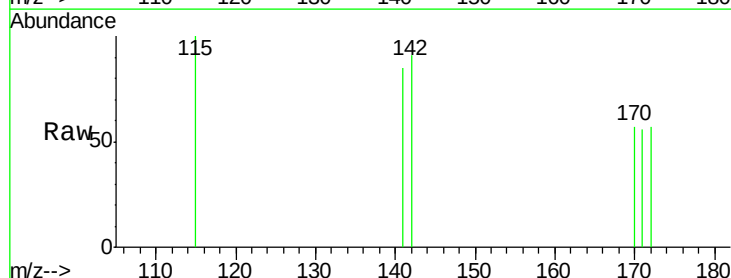
Tgt Ion:142 Resp: 56

Ion Ratio Lower Upper

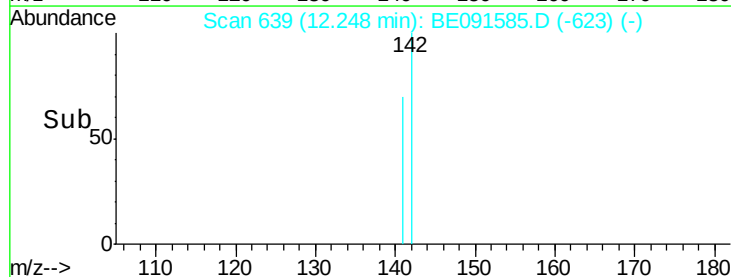
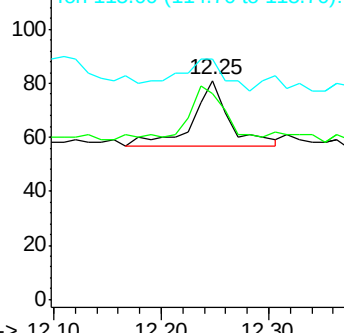
142 100

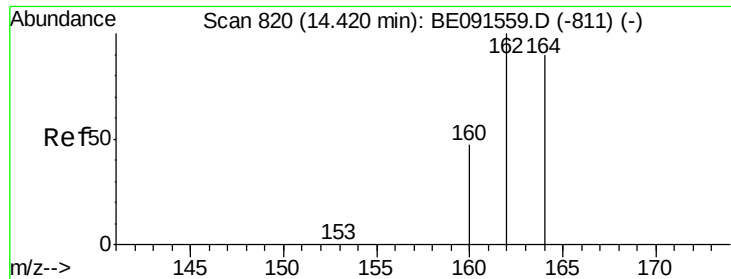
141 93.8 66.9 100.3

115 109.9 25.1 37.7#



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





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

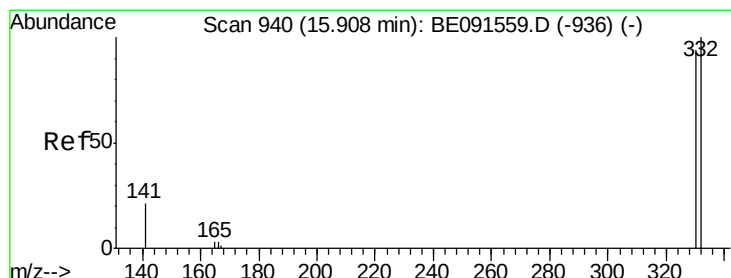
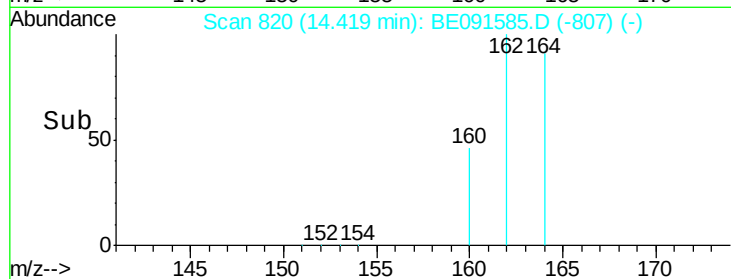
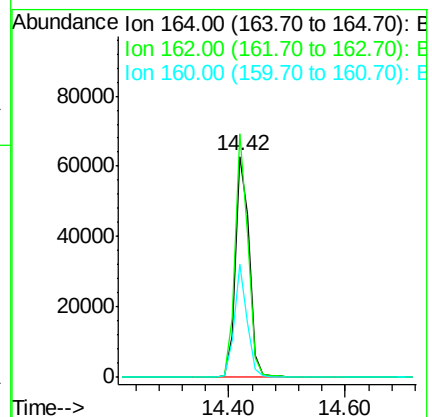
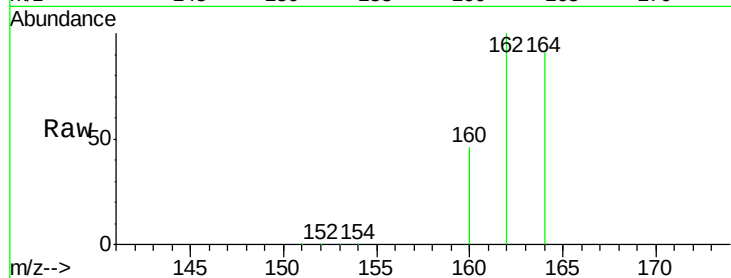
Tot Ion:164 Resp: 104748

Ion Ratio Lower Upper

164 100

162 110.2 84.4 126.6

160 51.1 37.7 56.5



#11

2,4,6-Tribromophenol

Concen: 6.81 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

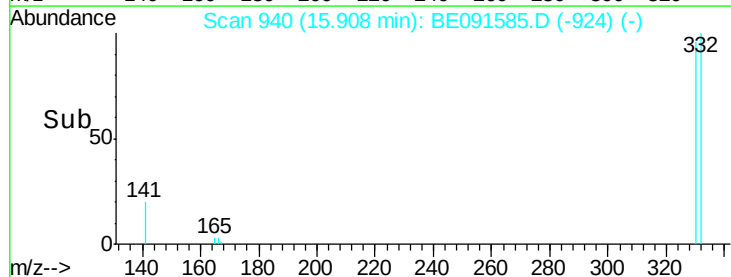
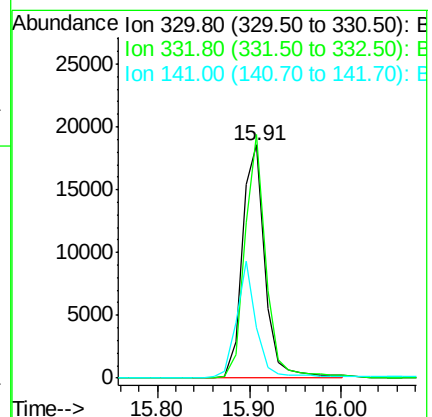
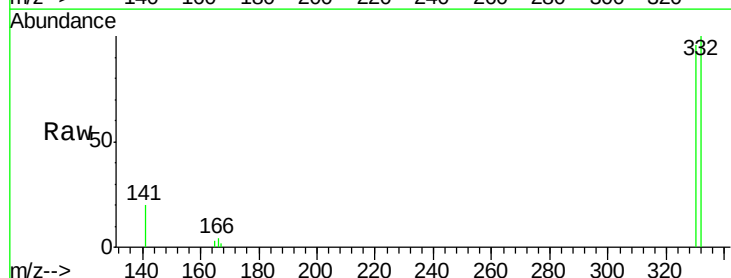
Tgt Ion:330 Resp: 31630

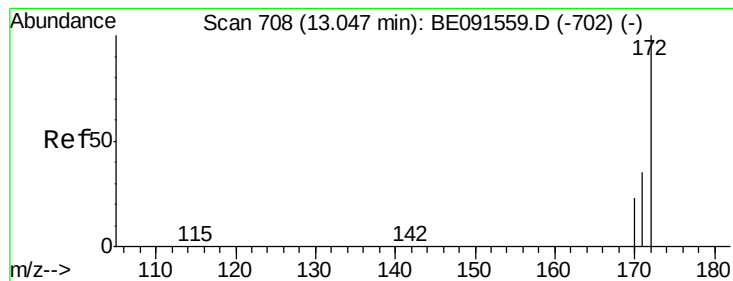
Ion Ratio Lower Upper

330 100

332 96.3 79.2 118.8

141 43.6 28.1 42.1#

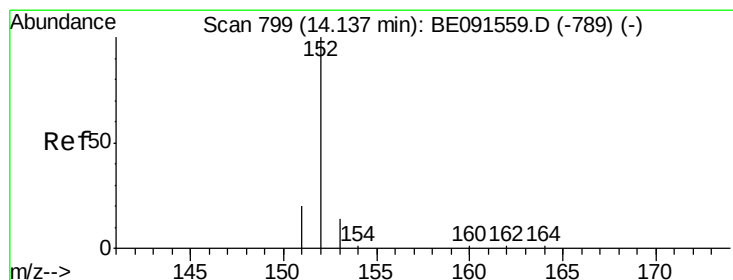
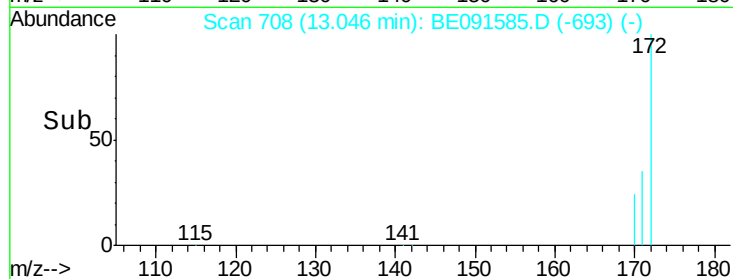
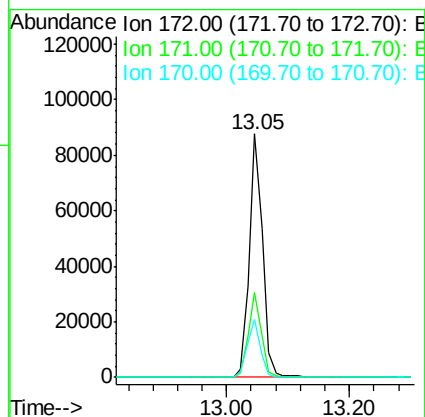
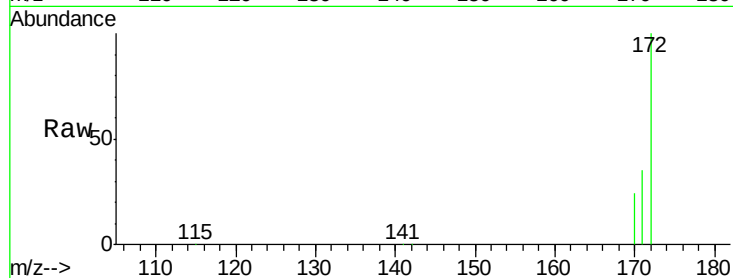




#12
2-Fluorobiphenyl
Concen: 4.43 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

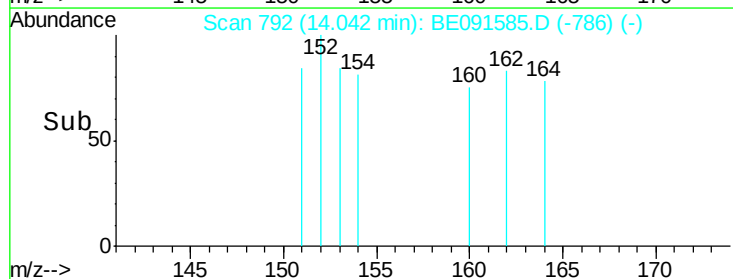
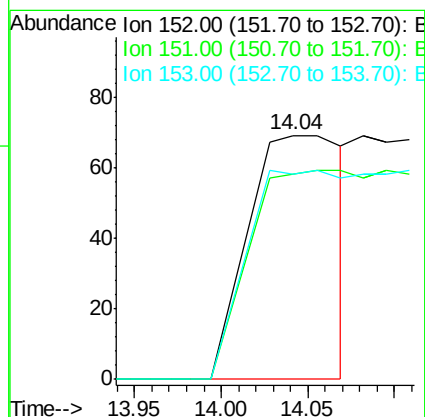
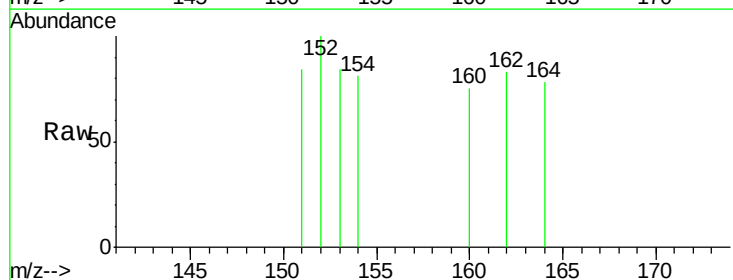
Instrument :
BNA_E
ClientSampled :

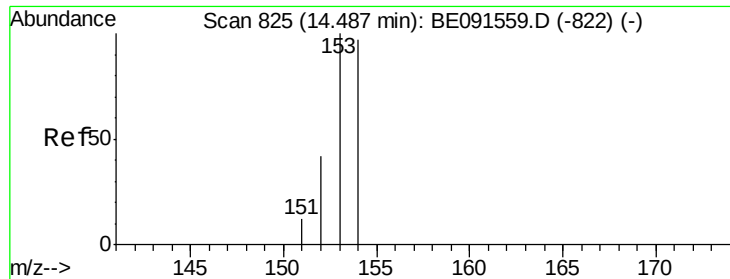
Tot Ion:172 Resp: 132028
Ion Ratio Lower Upper
172 100
171 35.1 29.8 44.8
170 23.6 21.4 32.2



#13
Acenaphthylene
Concen: 0.01 ng
RT: 14.04 min Scan# 792
Delta R.T. -0.11 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

Tgt Ion:152 Resp: 280
Ion Ratio Lower Upper
152 100
151 103.2 16.3 24.5#
153 0.0 11.1 16.7#





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.08 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

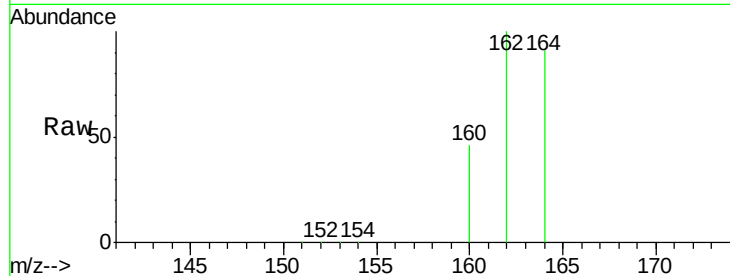
Tot Ion:154 Resp: 422

Ion Ratio Lower Upper

154 100

153 9.0 87.3 130.9#

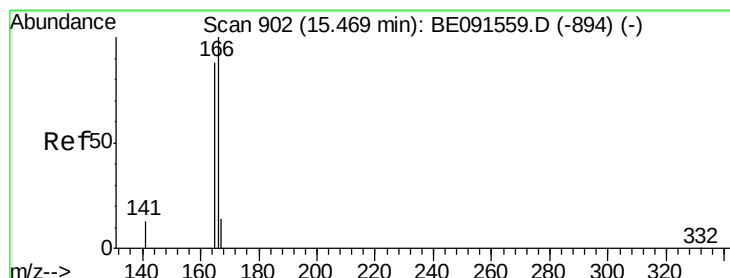
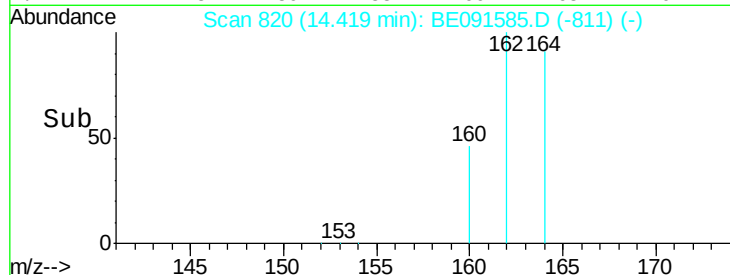
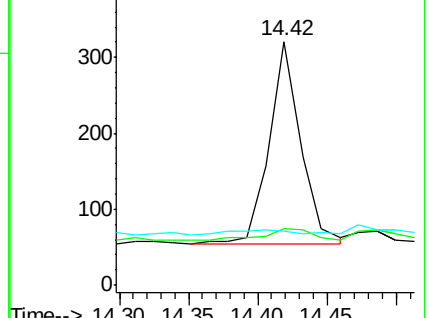
152 4.5 42.9 64.3#



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



#15

Fluorene

Concen: 0.00 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

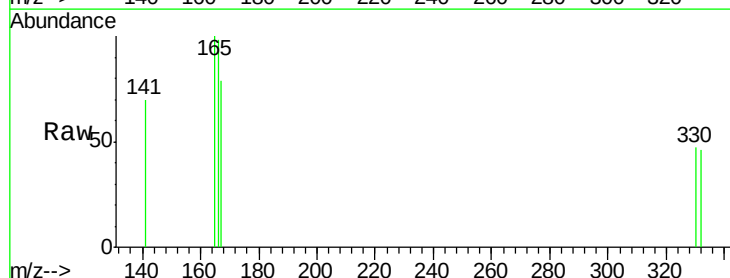
Tgt Ion:166 Resp: 94

Ion Ratio Lower Upper

166 100

165 97.9 79.2 118.8

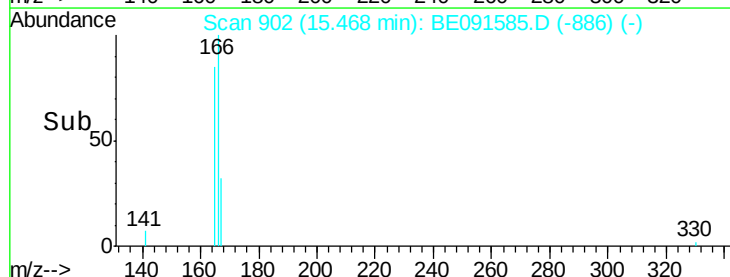
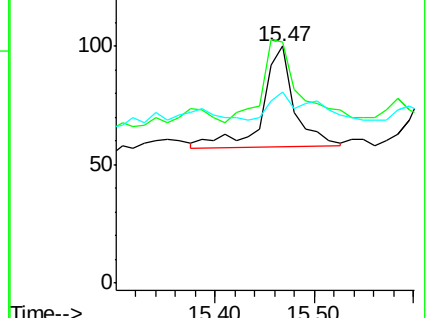
167 39.4 10.8 16.2#

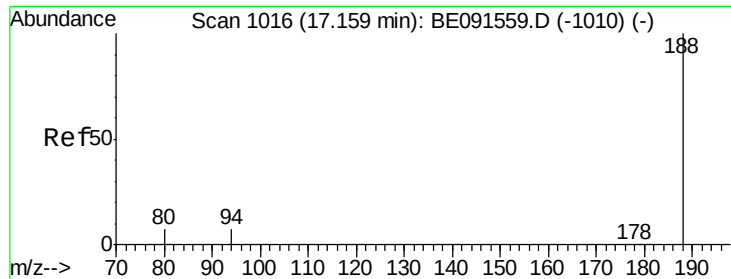


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

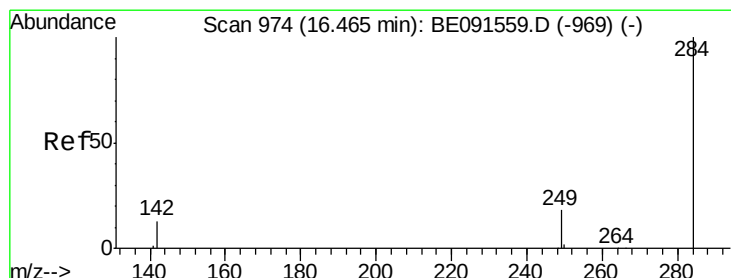
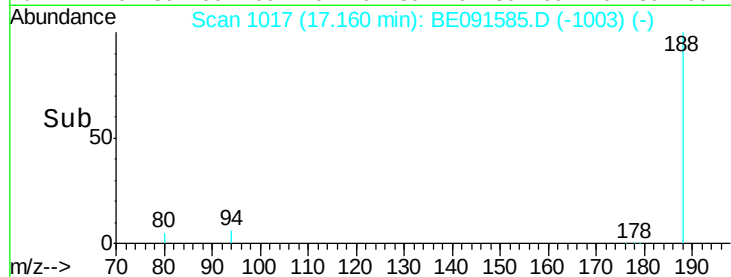
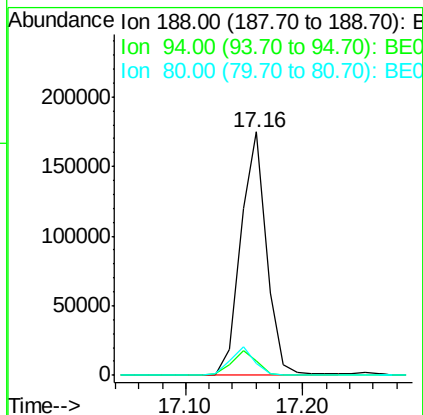
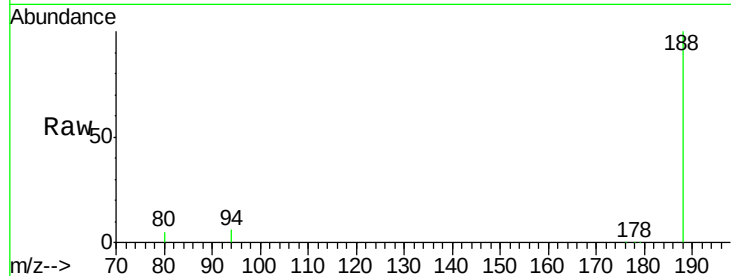




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

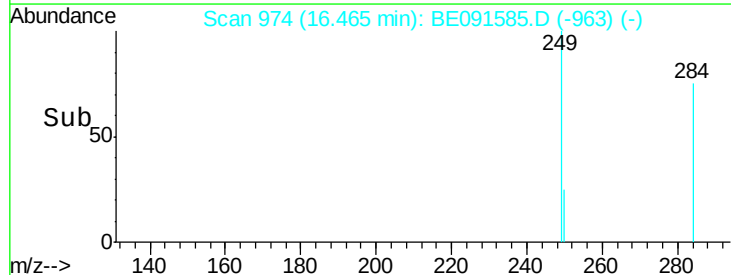
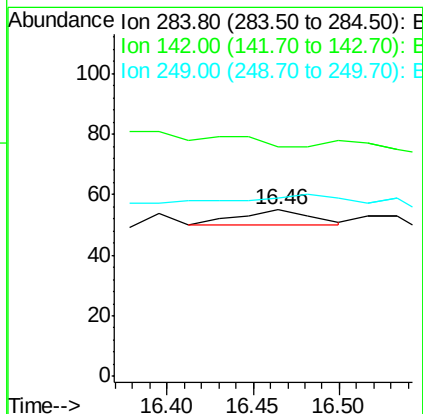
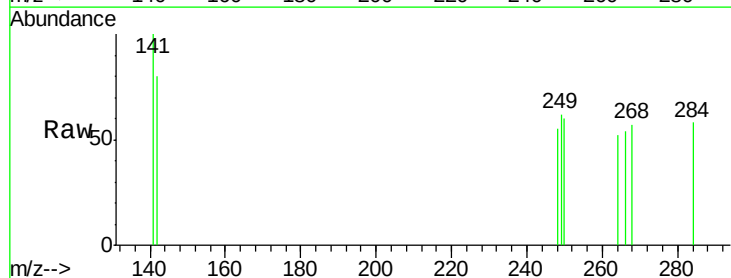
Instrument :
BNA_E
ClientSampleId :

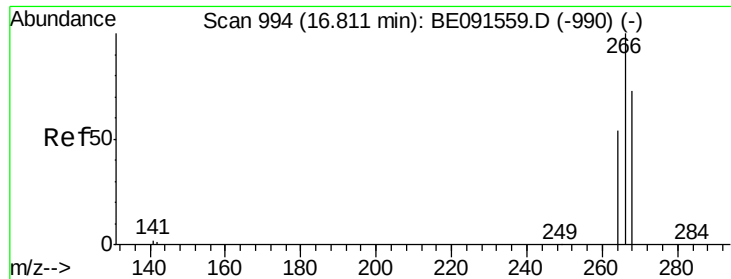
Tot Ion:188 Resp: 268717
Ion Ratio Lower Upper
188 100
94 5.9 5.4 8.2
80 5.1 5.0 7.4



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

Tgt Ion:284 Resp: 15
Ion Ratio Lower Upper
284 100
142 0.0 31.0 46.4#
249 0.0 25.8 38.8#

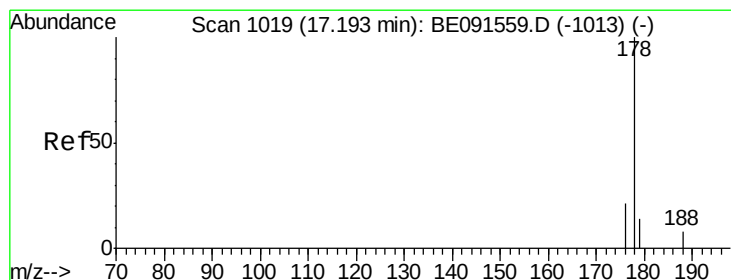
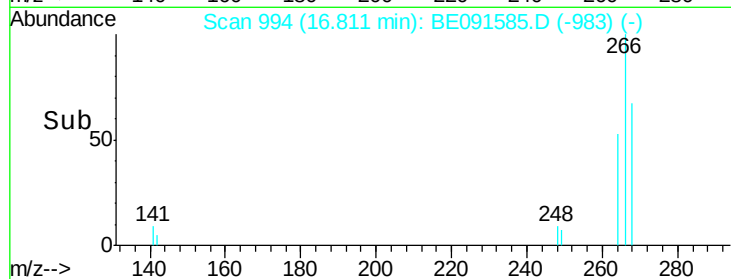
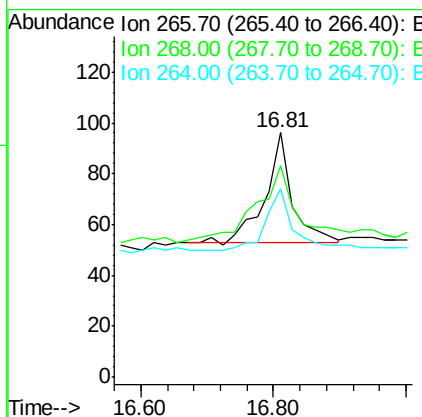
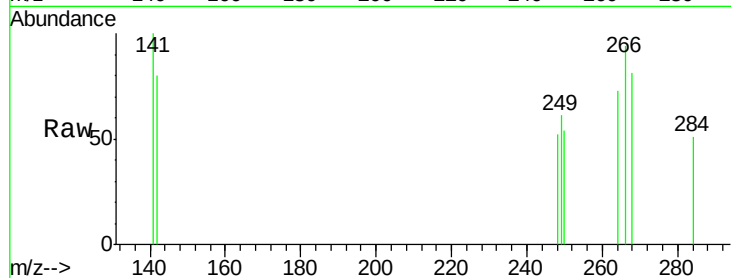




#18
 Pentachlorophenol
 Concen: 0.02 ng
 RT: 16.81 min Scan# 994
 Delta R.T. -0.02 min
 Lab File: BE091585.D
 Acq: 31 Mar 2016 15:22

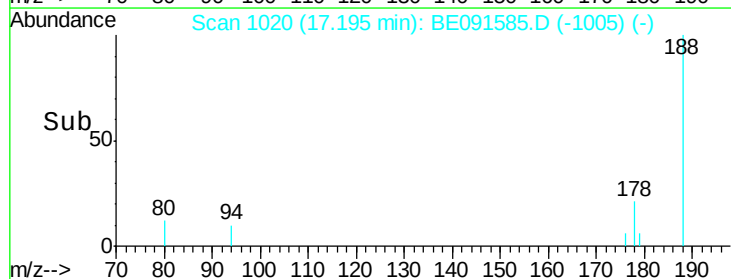
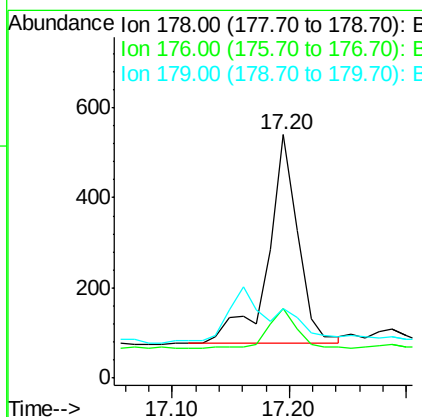
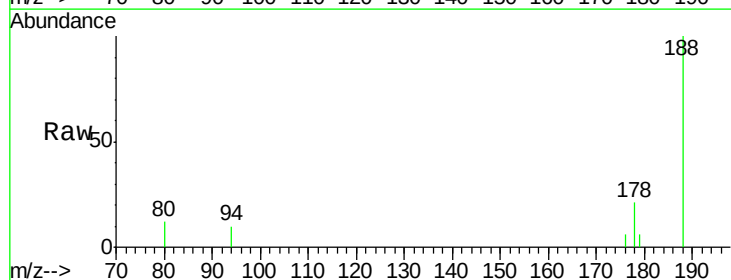
Instrument :
 BNA_E
 ClientSampleId :

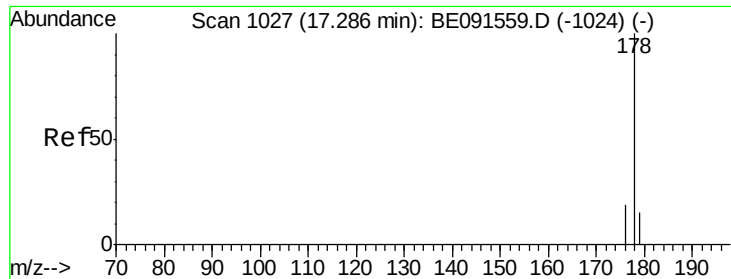
Tot Ion:266 Resp: 120
 Ion Ratio Lower Upper
 266 100
 268 86.5 48.2 72.2#
 264 77.1 52.1 78.1



#19
 Phenanthrene
 Concen: 0.01 ng
 RT: 17.20 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BE091585.D
 Acq: 31 Mar 2016 15:22

Tgt Ion:178 Resp: 820
 Ion Ratio Lower Upper
 178 100
 176 17.4 15.5 23.3
 179 0.0 13.1 19.7#





#20

Anthracene

Concen: 0.00 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

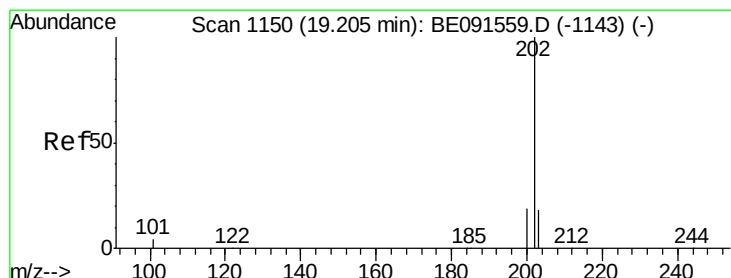
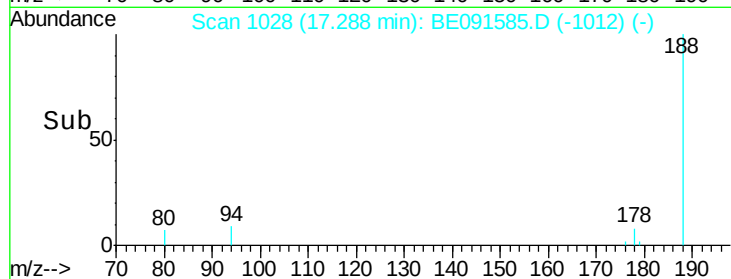
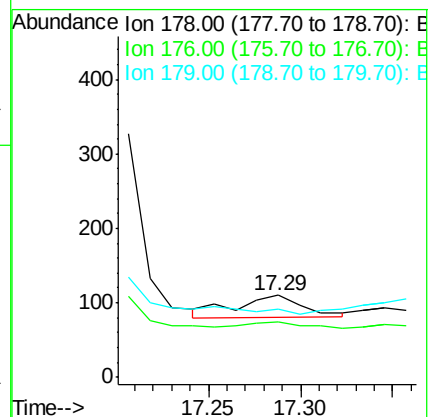
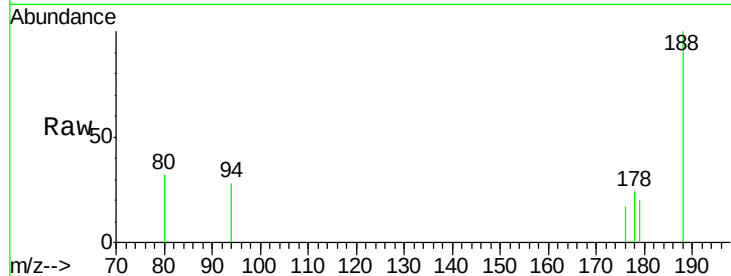
Tot Ion:178 Resp: 76

Ion Ratio Lower Upper

178 100

176 25.0 14.9 22.3#

179 0.0 12.2 18.4#



#21

Fluoranthene

Concen: 0.00 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

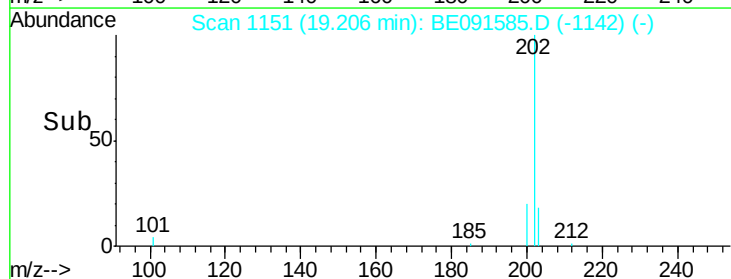
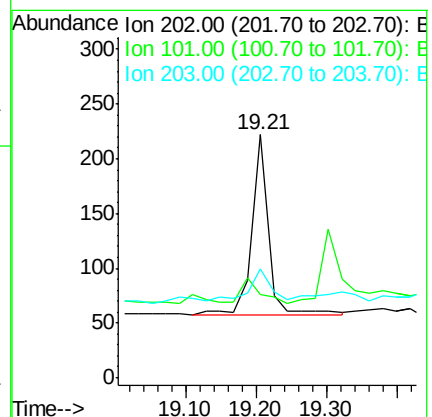
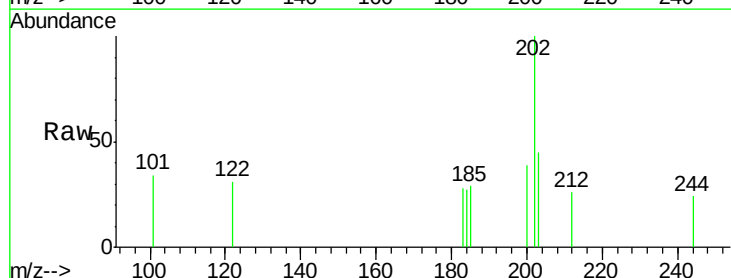
Tgt Ion:202 Resp: 282

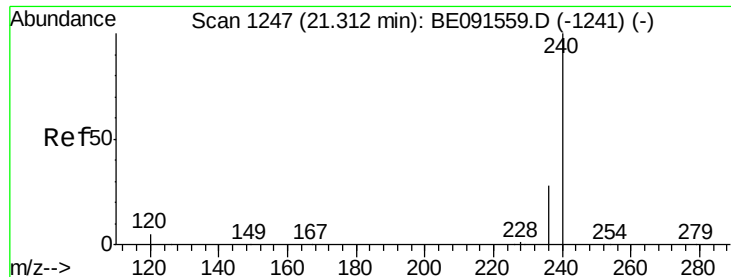
Ion Ratio Lower Upper

202 100

101 15.6 8.3 12.5#

203 21.3 13.9 20.9#





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

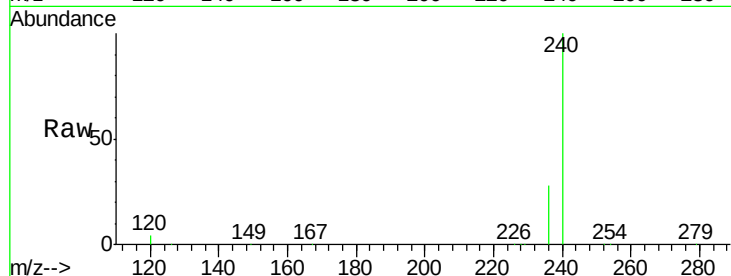
Tot Ion:240 Resp: 373559

Ion Ratio Lower Upper

240 100

120 3.6 4.0 6.0#

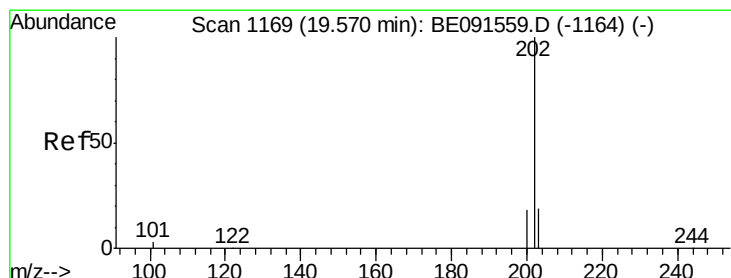
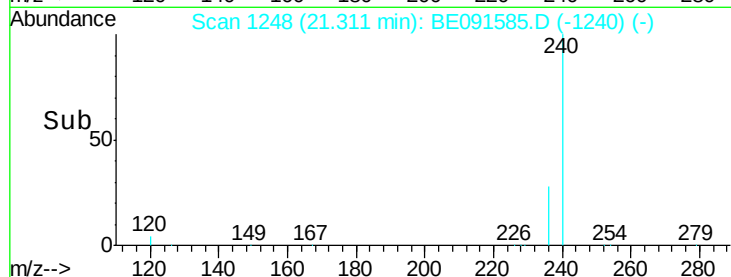
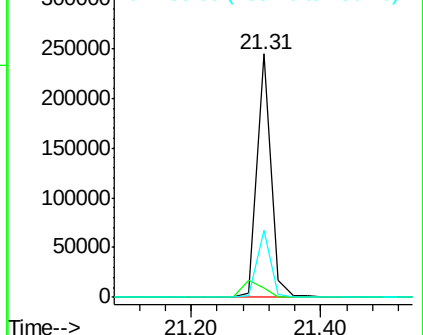
236 27.6 23.0 34.4



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



#23

Pyrene

Concen: 0.00 ng

RT: 19.57 min Scan# 1170

Delta R.T. 0.00 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

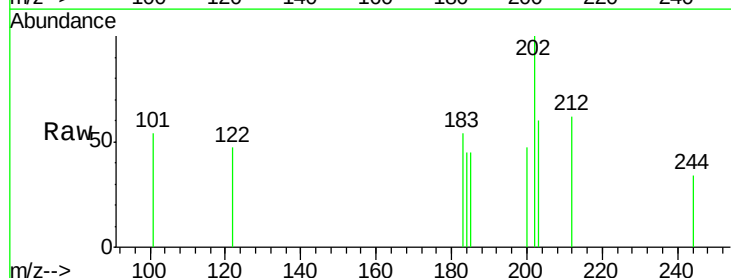
Tgt Ion:202 Resp: 220

Ion Ratio Lower Upper

202 100

200 25.5 16.4 24.6#

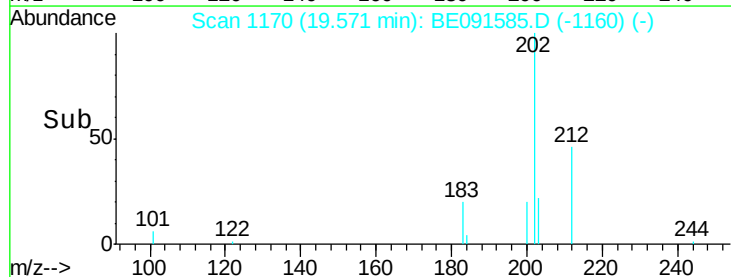
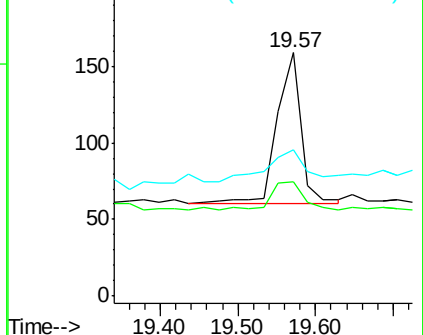
203 31.8 14.6 21.8#

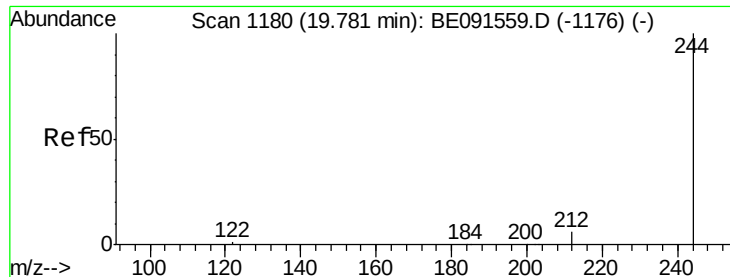


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 4.88 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

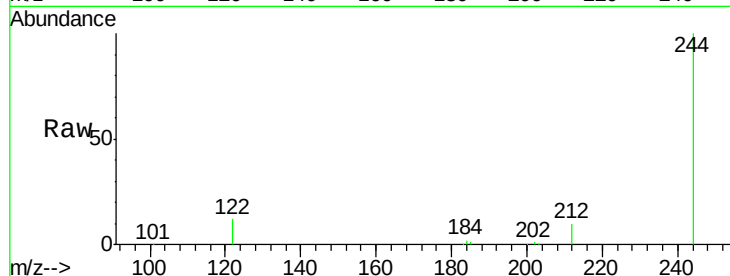
Tot Ion:244 Resp: 231159

Ion Ratio Lower Upper

244 100

212 10.0 5.8 8.8#

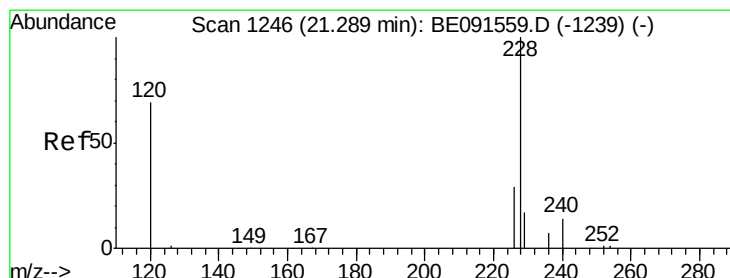
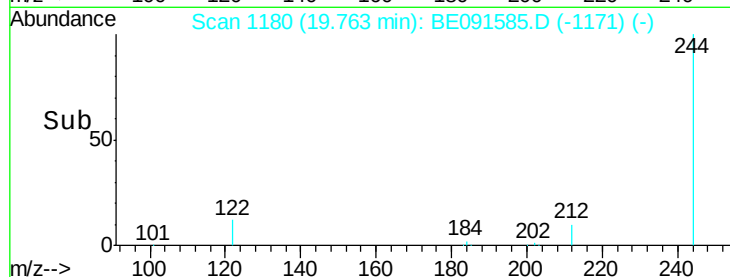
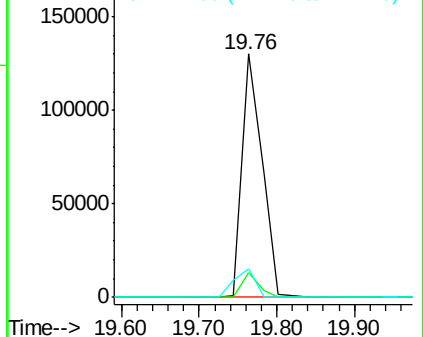
122 12.0 1.8 2.8#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

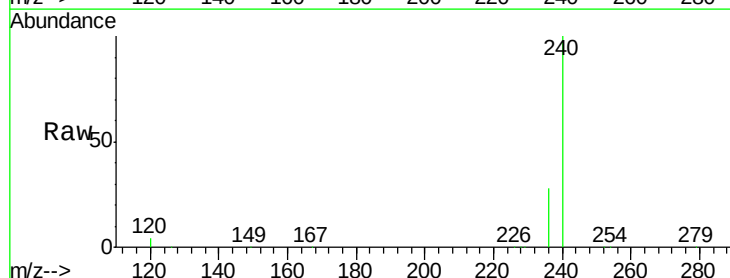
Tgt Ion:228 Resp: 1349

Ion Ratio Lower Upper

228 100

226 14.7 24.0 36.0#

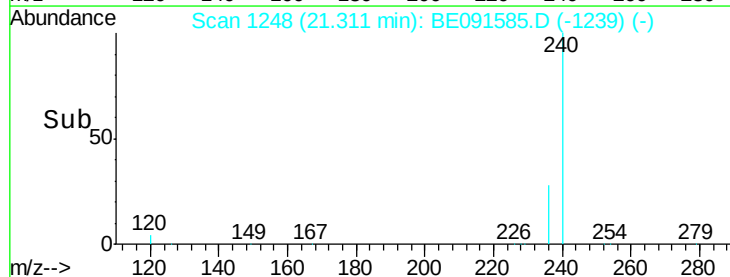
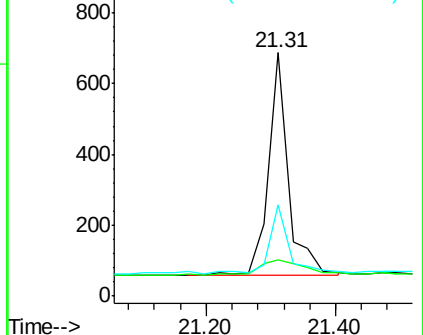
229 37.2 13.8 20.6#

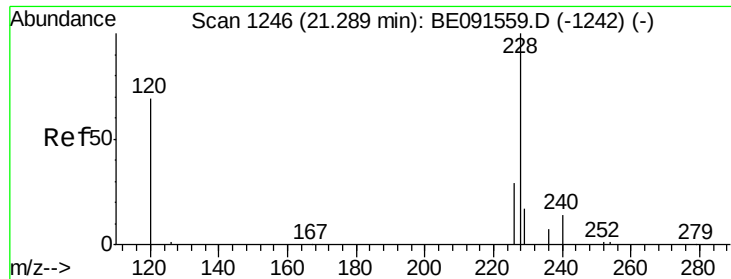


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

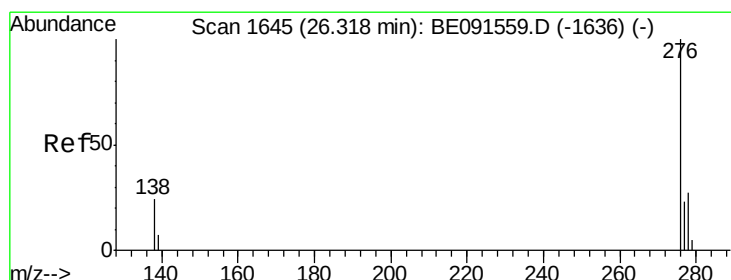
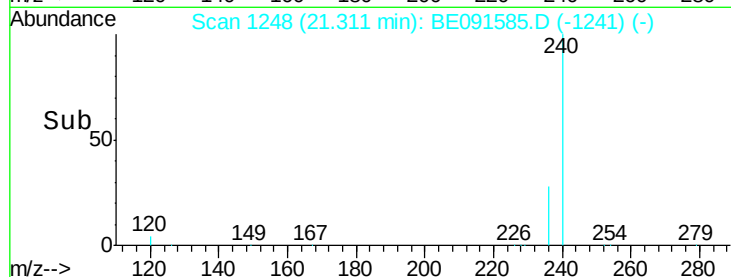
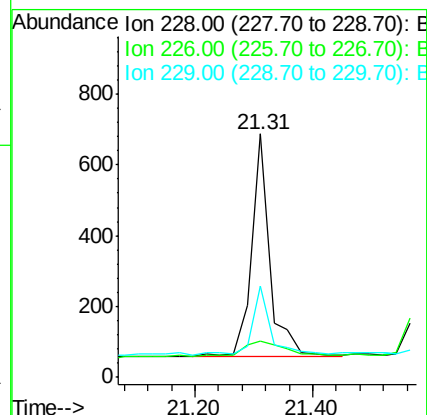
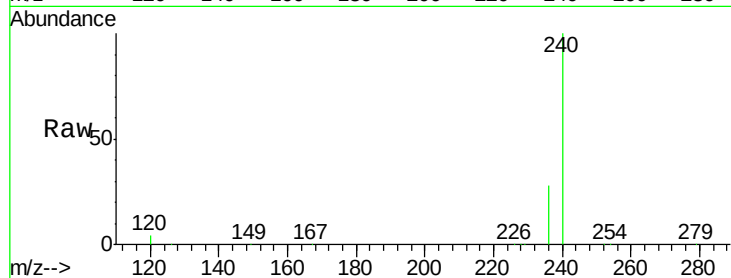




#26
Chrysene
Concen: 0.02 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.05 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

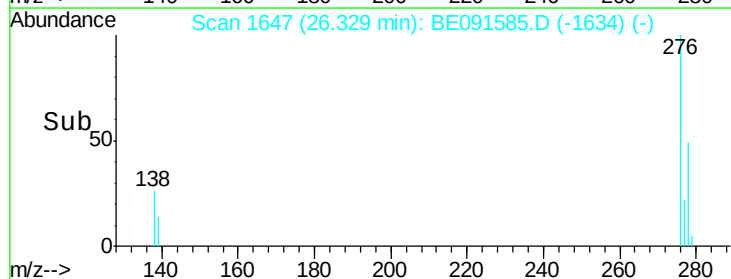
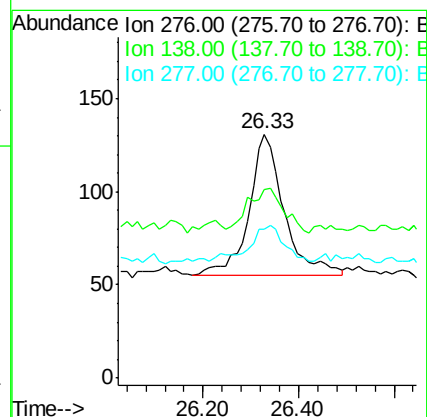
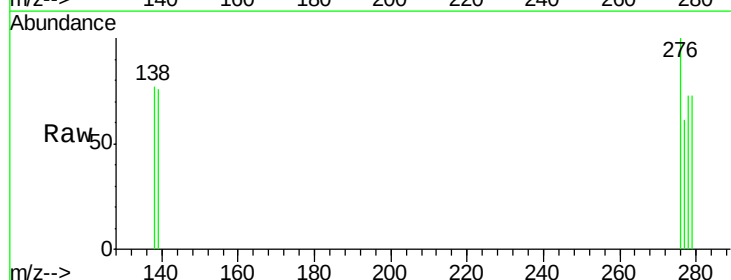
Instrument :
BNA_E
ClientSampleId :

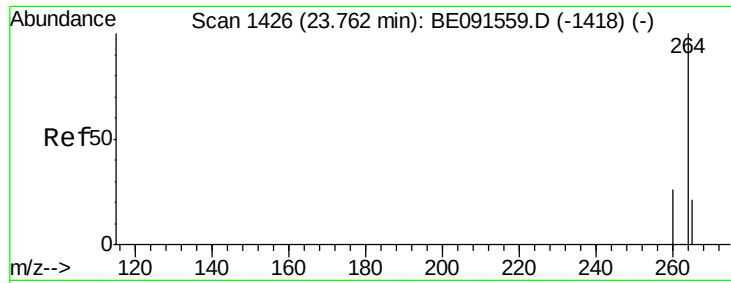
Tot Ion:228 Resp: 1360
Ion Ratio Lower Upper
228 100
226 14.7 18.9 28.3#
229 37.2 19.1 28.7#



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.00 ng
RT: 26.33 min Scan# 1647
Delta R.T. -0.05 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

Tgt Ion:276 Resp: 387
Ion Ratio Lower Upper
276 100
138 31.5 20.2 30.4#
277 20.9 19.8 29.8

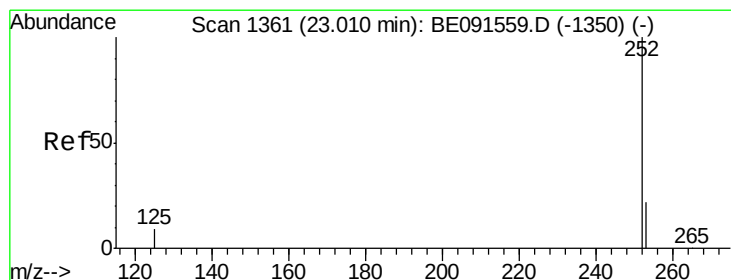
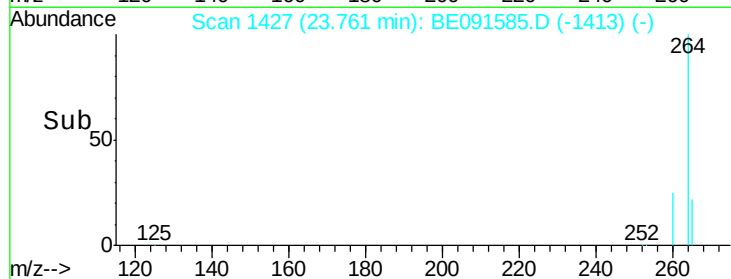
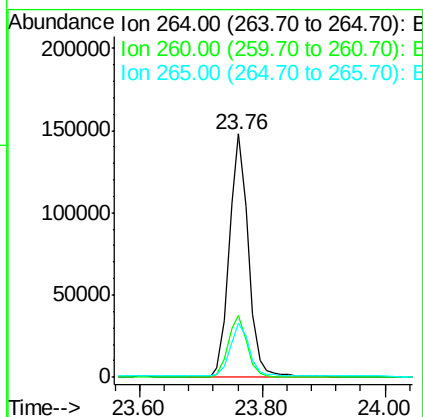
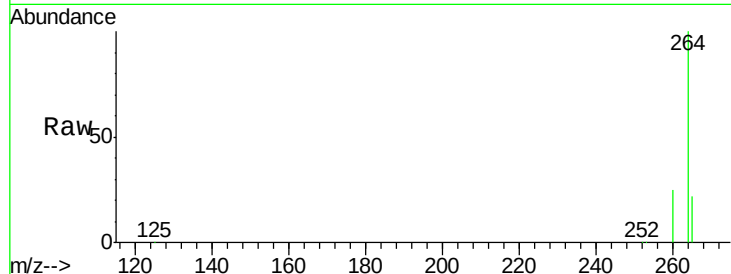




#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

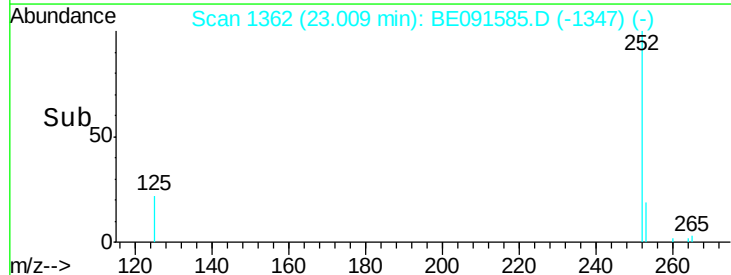
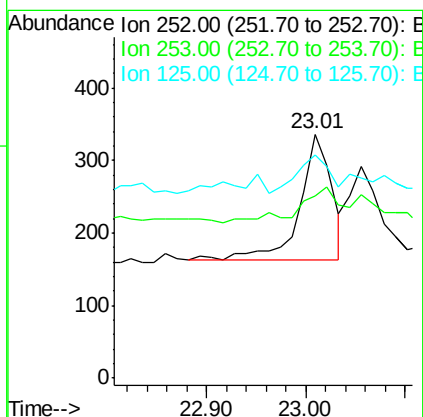
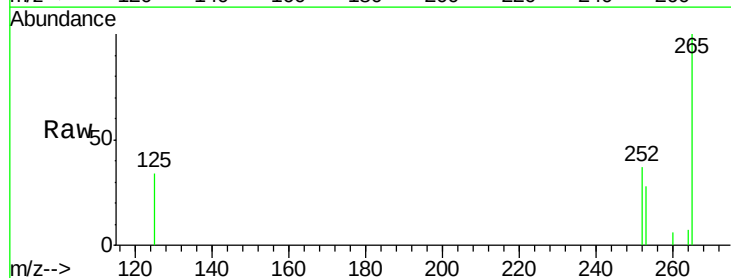
Instrument :
BNA_E
ClientSampleId :

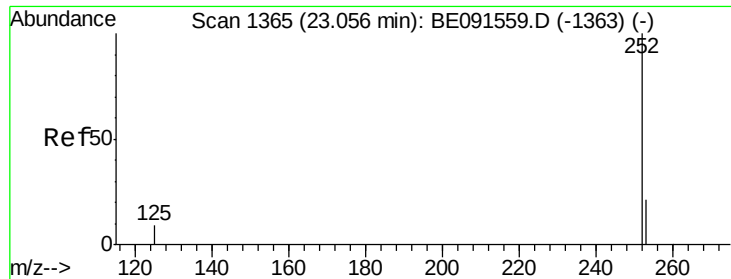
Tot Ion:264 Resp: 320264
Ion Ratio Lower Upper
264 100
260 25.2 20.1 30.1
265 22.1 18.3 27.5



#29
Benzo(b)fluoranthene
Concen: 0.00 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

Tgt Ion:252 Resp: 388
Ion Ratio Lower Upper
252 100
253 74.7 18.7 28.1#
125 91.4 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.07 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

Instrument :

BNA_E

ClientSampleId :

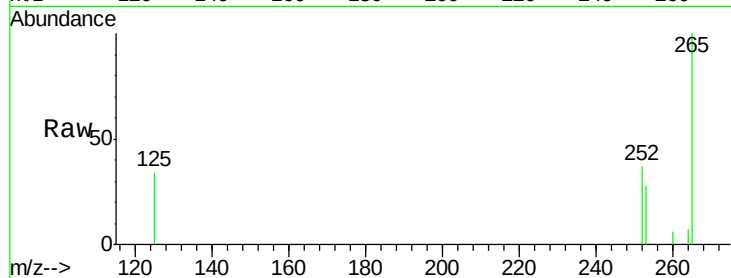
Tot Ion:252 Resp: 388

Ion Ratio Lower Upper

252 100

253 74.7 20.2 30.4#

125 91.4 9.4 14.2#



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

23.01

400

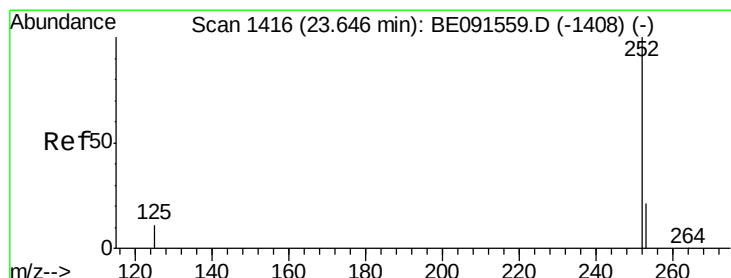
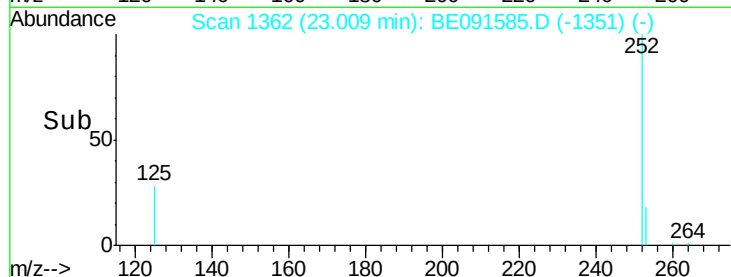
300

200

100

0

Time-->



#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.65 min Scan# 1417

Delta R.T. -0.03 min

Lab File: BE091585.D

Acq: 31 Mar 2016 15:22

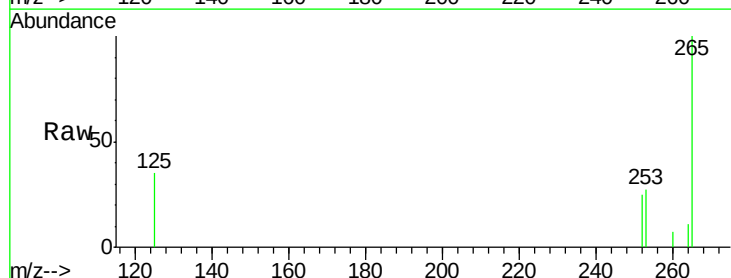
Tgt Ion:252 Resp: 187

Ion Ratio Lower Upper

252 100

253 112.0 19.4 29.0#

125 142.7 11.4 17.2#



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

23.65

800

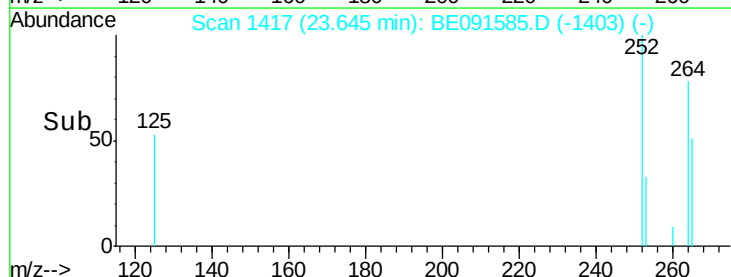
600

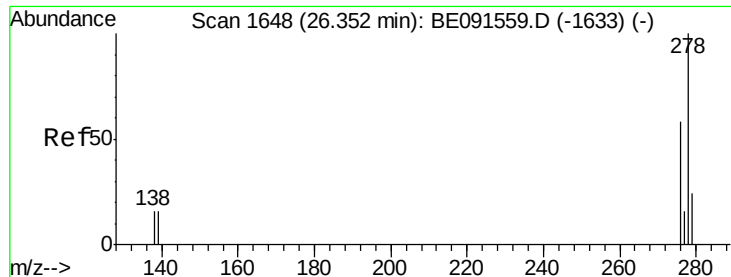
400

200

0

Time-->



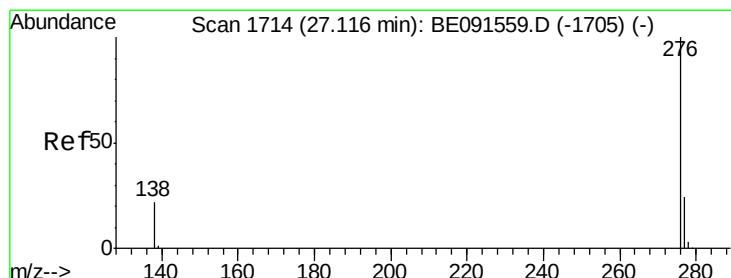
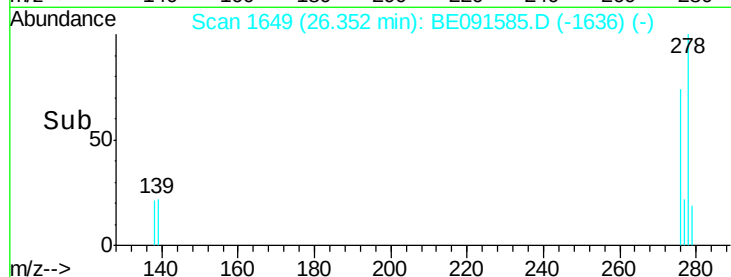
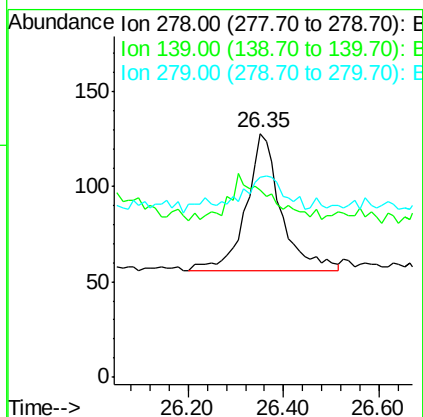
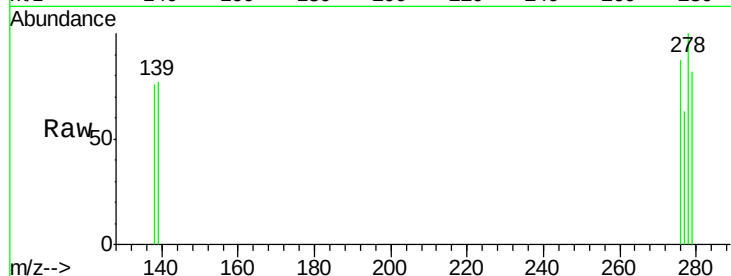


#32
Dibenzo(a,h)anthracene
Concen: 0.01 ng
RT: 26.35 min Scan# 1649
Delta R.T. -0.05 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 363

Ion	Ratio	Lower	Upper
278	100		
139	76.6	14.2	21.4#
279	82.0	19.6	29.4#



#33
Benzo(g,h,i)perylene
Concen: 0.00 ng
RT: 27.12 min Scan# 1715
Delta R.T. -0.05 min
Lab File: BE091585.D
Acq: 31 Mar 2016 15:22

Tgt Ion:276 Resp: 241

Ion	Ratio	Lower	Upper
276	100		
277	68.2	19.4	29.2#
138	86.9	18.2	27.4#

