

Data Path : Z:\HPCHEM1\BNA E\Data\BE020516\
 Data File : BE091399.D
 Acq On : 5 Feb 2016 14:38
 Operator : UM/IZ
 Sample : PB88200BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 05 16:43:32 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	42450	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	207693	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	129891	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	317838	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	399790	5.00	ng	0.00
24) Perylene-d12	22.09	264	379579	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	67822	6.76	ng	-0.04
3) Phenol-d6	6.53	99	105066	7.37	ng	-0.04
5) Nitrobenzene-d5	8.14	82	52423	3.88	ng	-0.03
9) 2,4,6-Tribromophenol	14.89	330	43176	6.84	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	150396	4.45	ng	-0.01
20) Terphenyl-d14	18.61	244	251429	4.25	ng	0.00

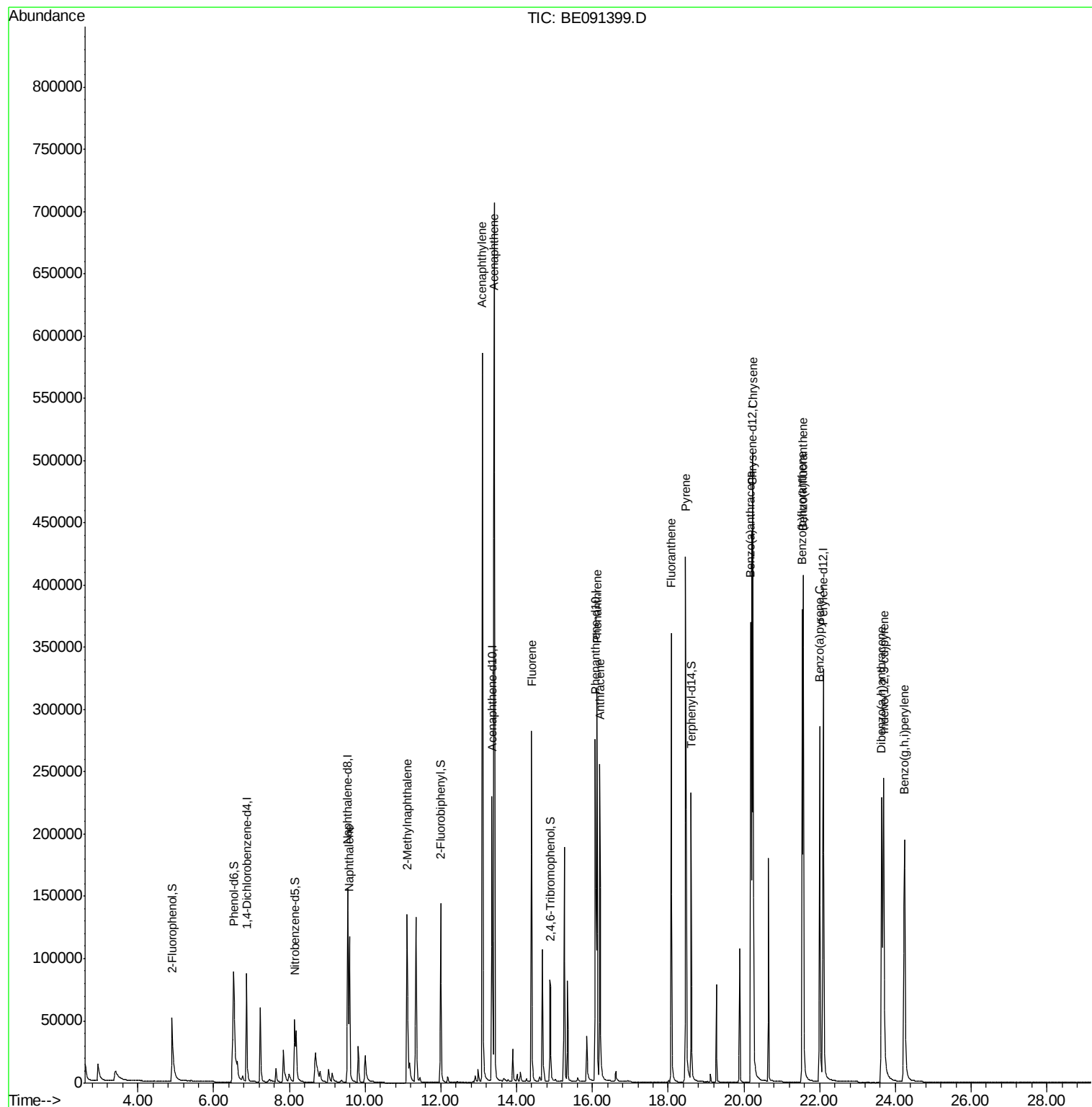
Target Compounds				Qvalue		
6) Naphthalene	9.58	128	170359	3.64	ng	99
7) 2-Methylnaphthalene	11.11	142	114728	3.96	ng	97
11) Acenaphthylene	13.09	152	826223	3.69	ng	100
12) Acenaphthene	13.41	154	130278	3.65	ng	97
13) Fluorene	14.39	166	182731	3.97	ng	99
15) Phenanthrene	16.12	178	319440	3.83	ng	99
16) Anthracene	16.20	178	307337	4.39	ng	99
17) Fluoranthene	18.08	202	352568	4.05	ng	99
19) Pyrene	18.46	202	377555	4.36	ng	99
21) Benzo(a)anthracene	20.18	228	353693	4.00	ng	97
22) Chrysene	20.24	228	396611	3.99	ng	97
23) Indeno(1,2,3-cd)pyrene	23.69	276	354779	3.94	ng	99
25) Benzo(b)fluoranthene	21.54	252	371220	3.96	ng	98
26) Benzo(k)fluoranthene	21.57	252	398081	4.20	ng	98
27) Benzo(a)pyrene	22.00	252	340946	3.94	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	317613	3.74	ng	99
29) Benzo(g,h,i)perylene	24.24	276	364919	3.90	ng	98

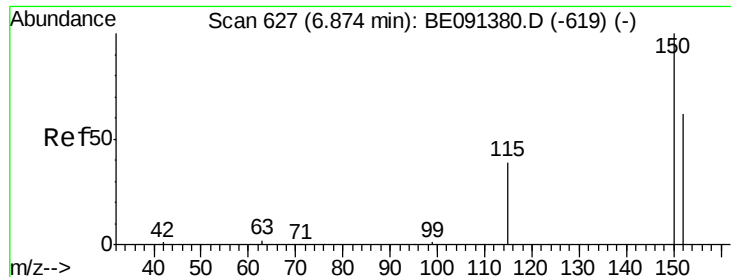
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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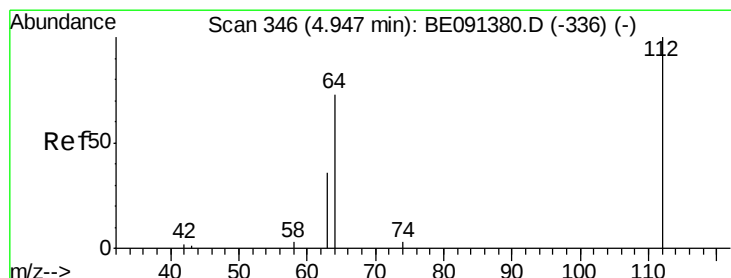
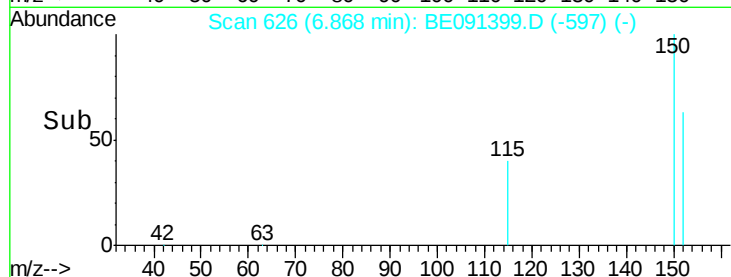
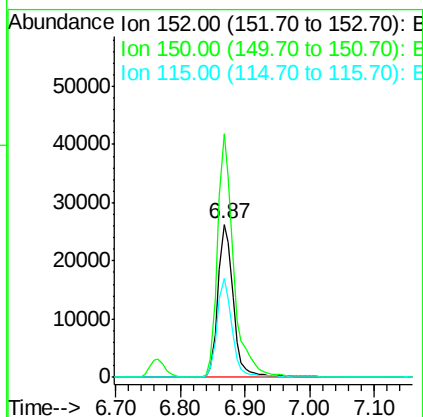
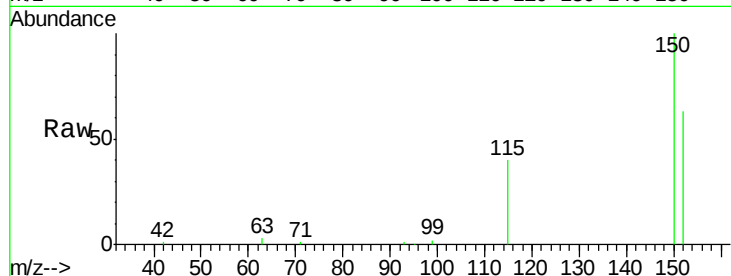


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 626
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Instrument :
BNA_E
ClientSampleId :

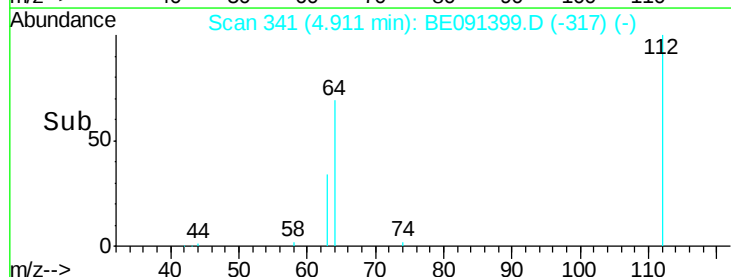
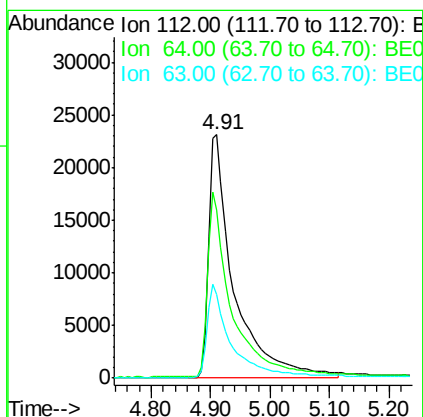
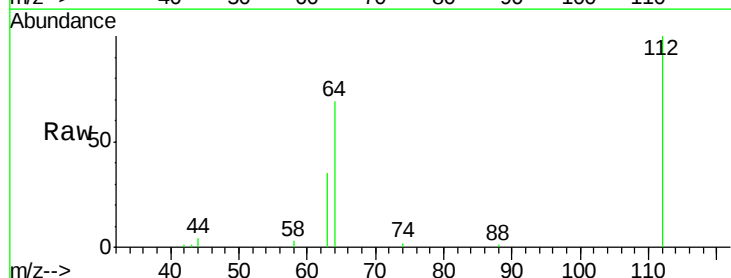
Tot Ion:152 Resp: 42450
Ion Ratio Lower Upper
152 100
150 159.0 128.9 193.3
115 64.4 50.9 76.3

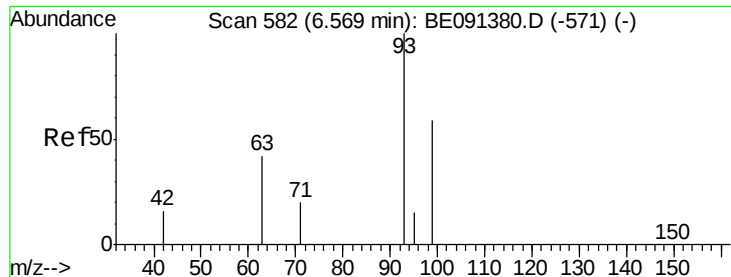


#2

2-Fluorophenol
Concen: 6.76 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.04 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:112 Resp: 67822
Ion Ratio Lower Upper
112 100
64 73.1 60.5 90.7
63 36.6 29.8 44.8





#3

Phenol-d6

Concen: 7.37 ng

RT: 6.53 min Scan# 576

Delta R.T. -0.04 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampled :

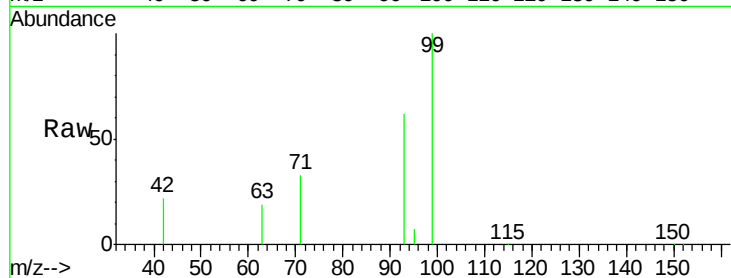
Tot Ion: 99 Resp: 105066

Ion Ratio Lower Upper

99 100

42 20.1 13.3 19.9#

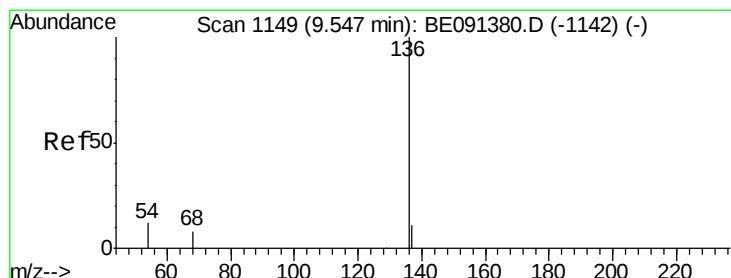
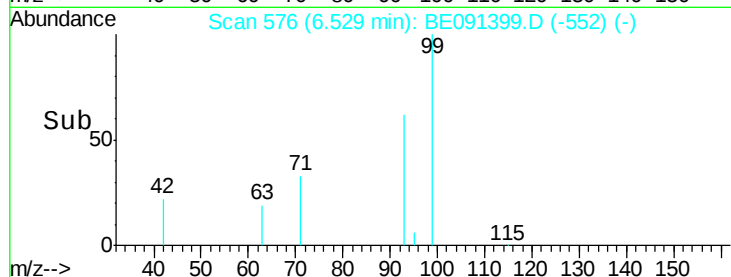
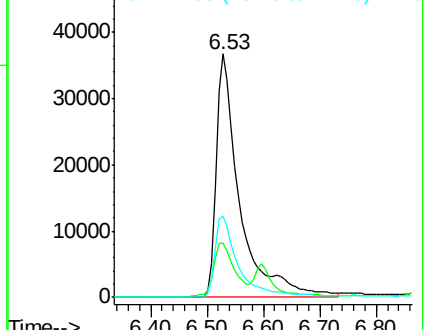
71 33.7 25.6 38.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.54 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Tgt Ion: 136 Resp: 207693

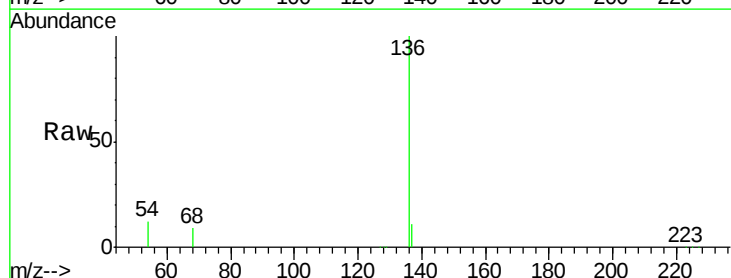
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 12.5 9.3 13.9

68 9.0 6.7 10.1

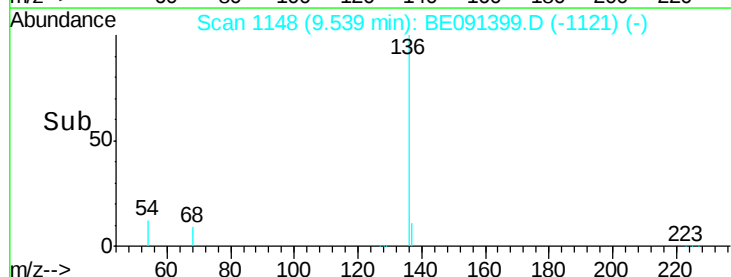
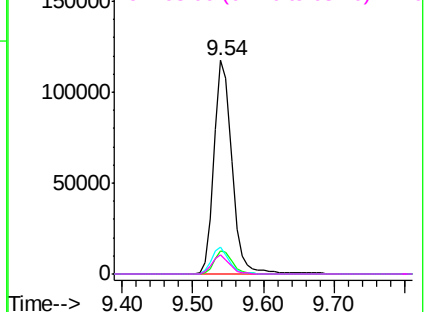


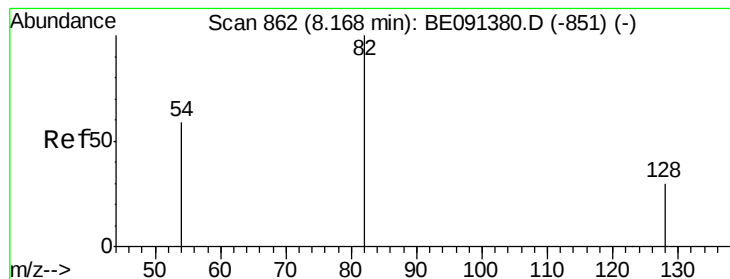
Abundance Ion 136.00 (135.70 to 136.70): E

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





#5

Nitrobenzene-d5

Concen: 3.88 ng

RT: 8.14 min Scan# 855

Delta R.T. -0.03 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

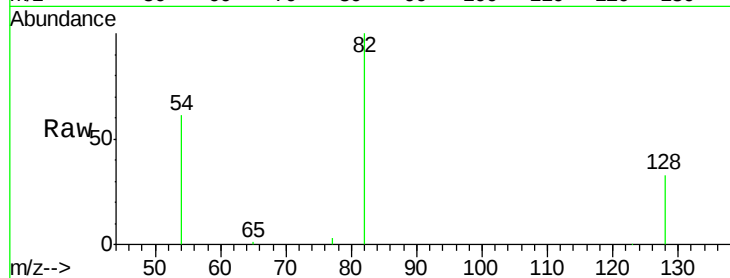
Tot Ion: 82 Resp: 52423

Ion Ratio Lower Upper

82 100

128 32.7 25.0 37.4

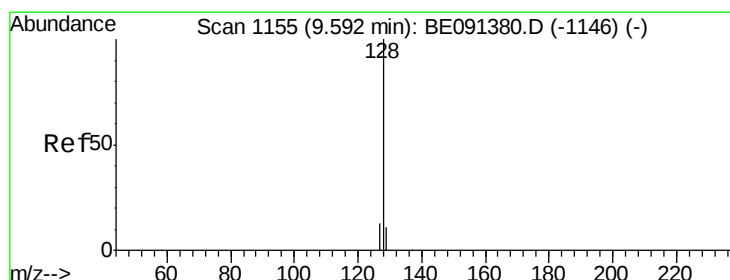
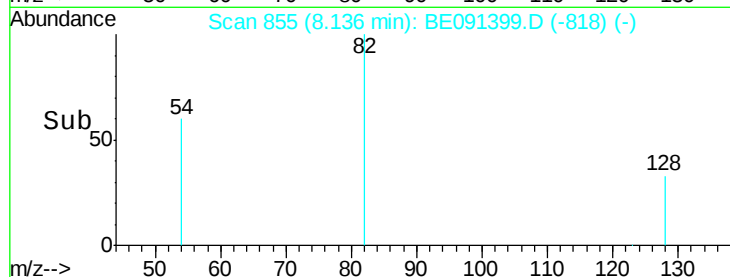
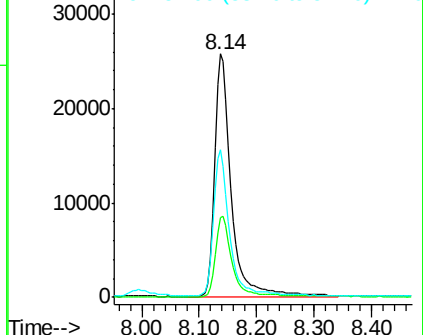
54 60.8 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 3.64 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

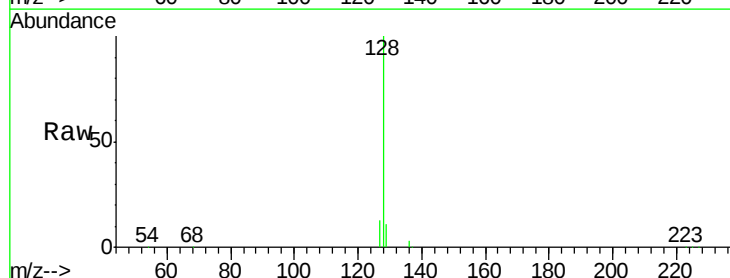
Tgt Ion: 128 Resp: 170359

Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

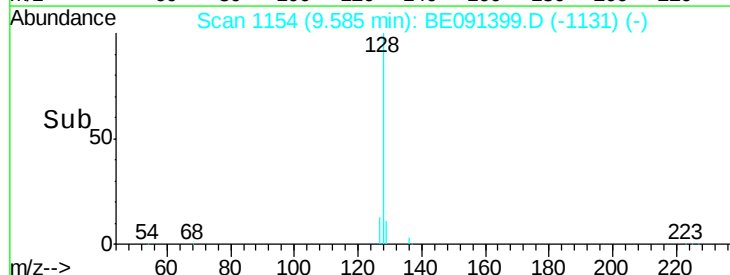
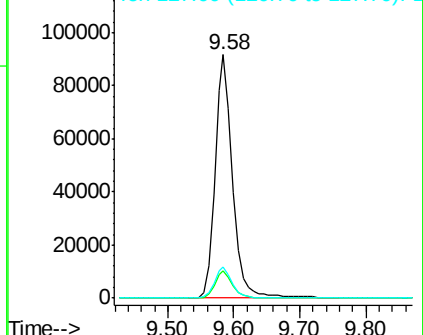
127 12.7 10.5 15.7



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





#7

2-Methylnaphthalene

Concen: 3.96 ng

RT: 11.11 min Scan# 1405

Delta R.T. -0.02 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

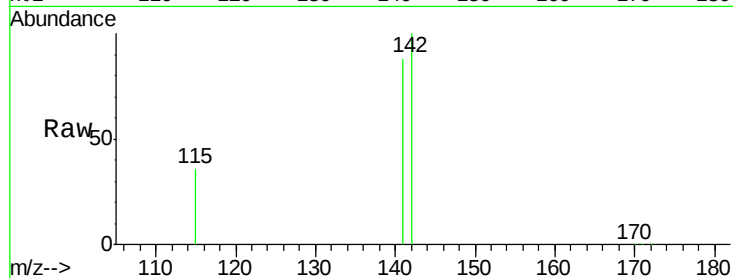
Tot Ion:142 Resp: 114728

Ion Ratio Lower Upper

142 100

141 88.4 72.3 108.5

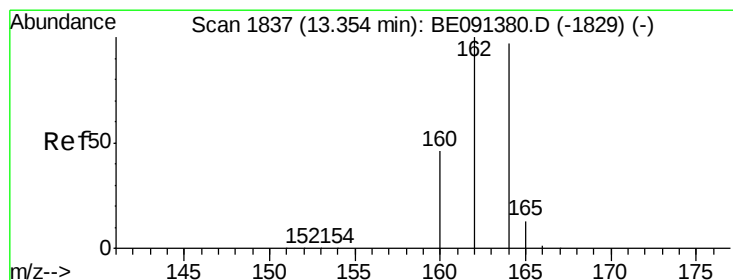
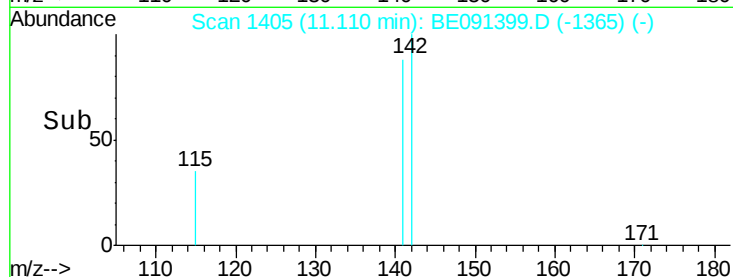
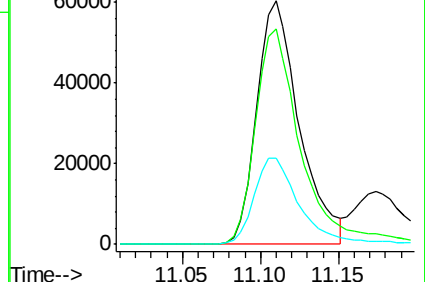
115 35.5 30.5 45.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

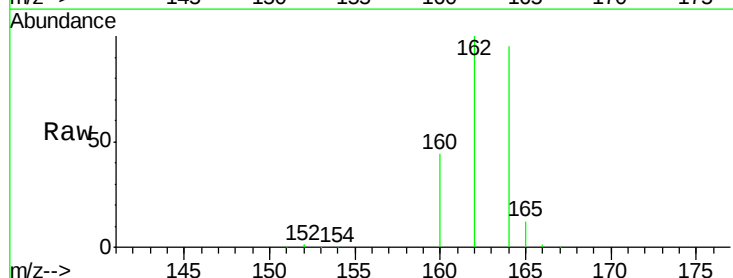
Tgt Ion:164 Resp: 129891

Ion Ratio Lower Upper

164 100

162 105.4 82.2 123.2

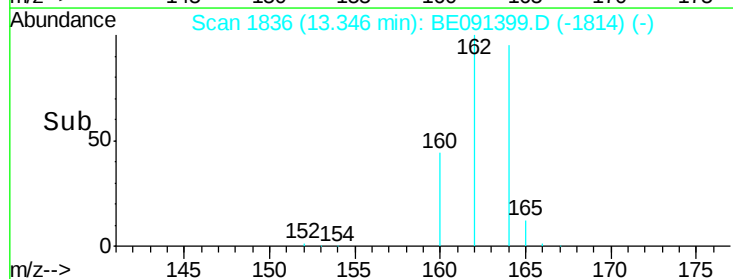
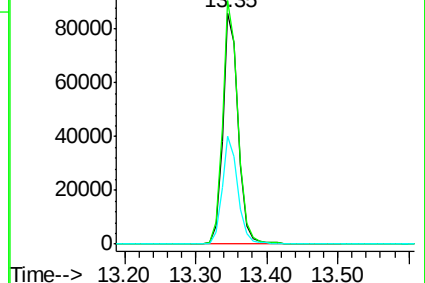
160 46.7 37.8 56.8



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

2,4,6-Tribromophenol

Concen: 6.84 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

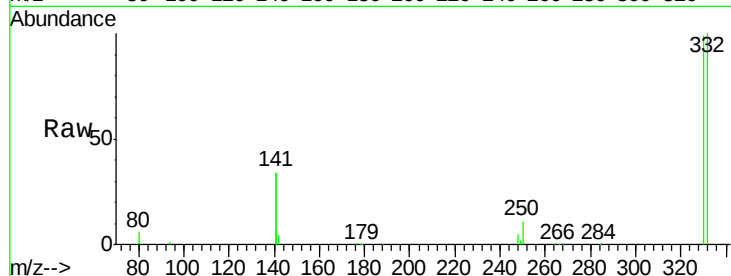
Tot Ion:330 Resp: 43176

Ion Ratio Lower Upper

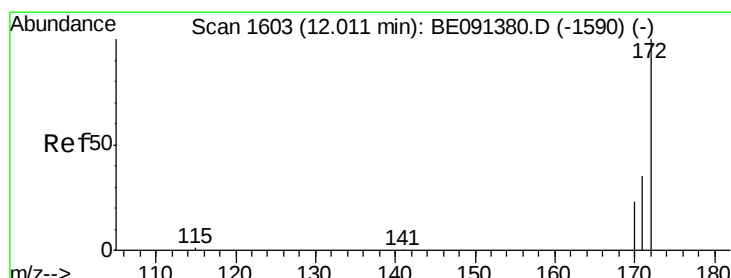
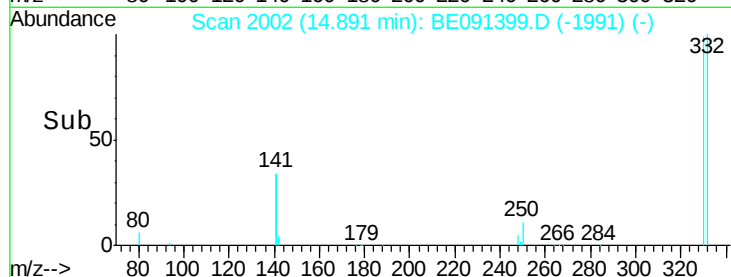
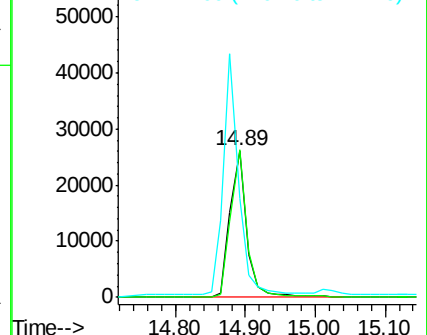
330 100

332 97.8 78.8 118.2

141 149.6 105.1 157.7



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 4.45 ng

RT: 12.00 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

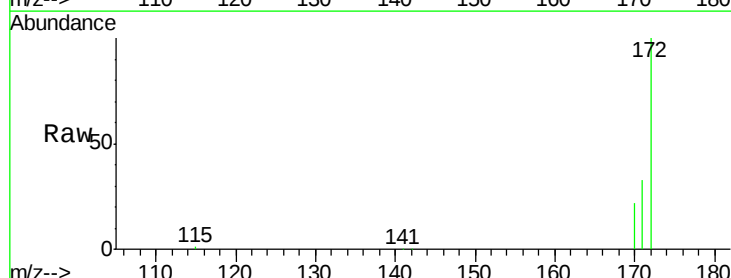
Tgt Ion:172 Resp: 150396

Ion Ratio Lower Upper

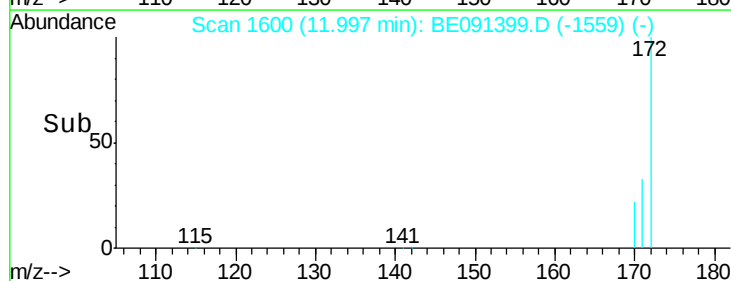
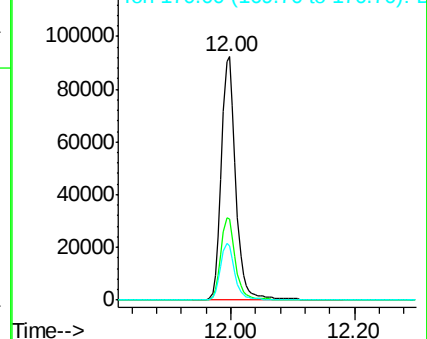
172 100

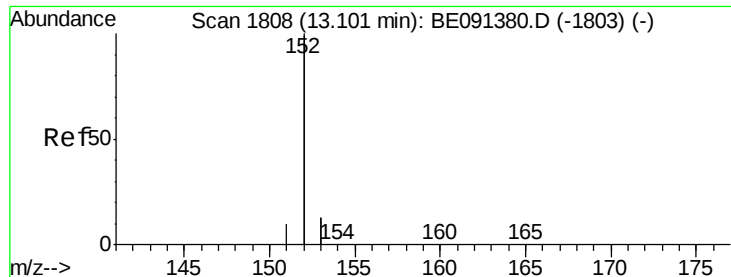
171 33.4 27.8 41.8

170 22.0 18.6 28.0



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





#11

Acenaphthylene

Concen: 3.69 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

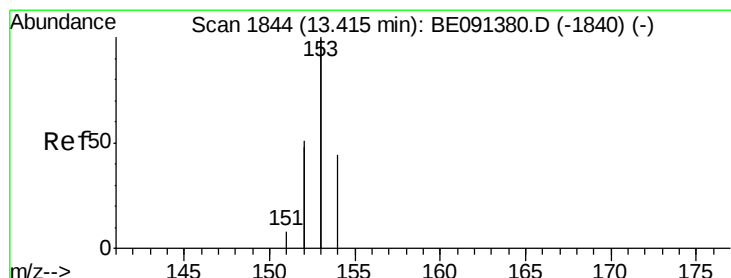
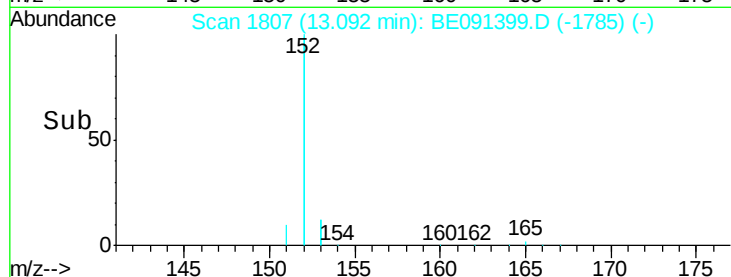
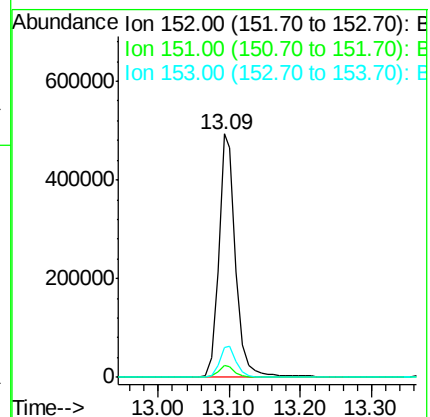
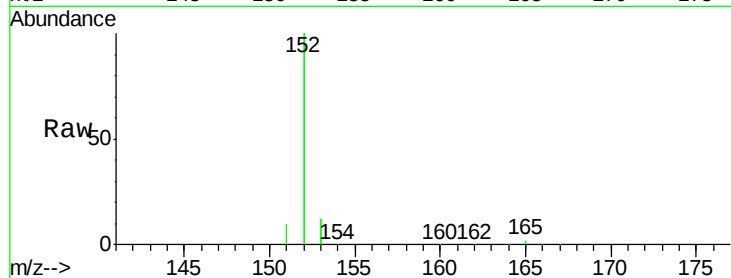
Tot Ion:152 Resp: 826223

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

153 13.0 10.2 15.4



#12

Acenaphthene

Concen: 3.65 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

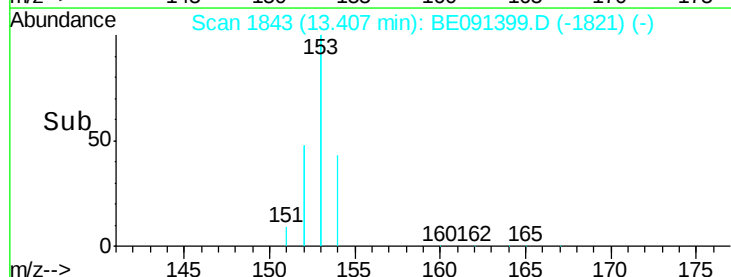
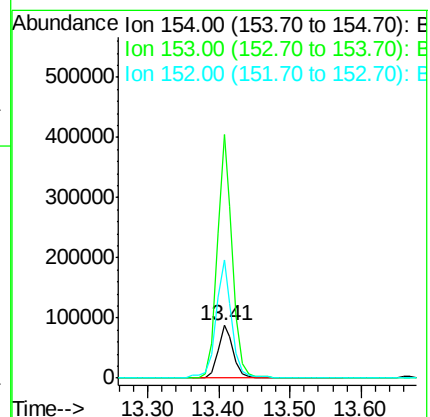
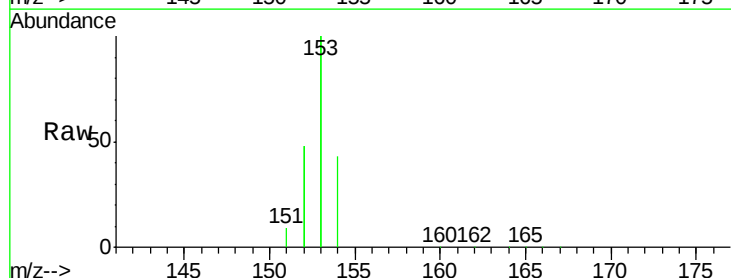
Tgt Ion:154 Resp: 130278

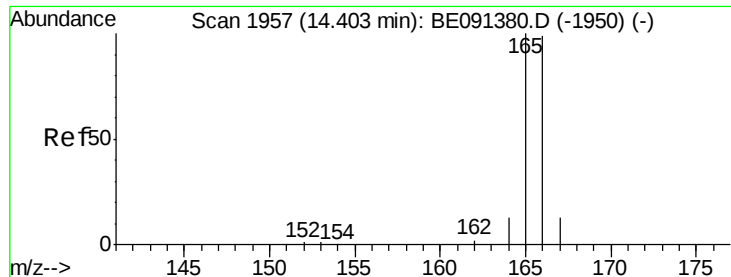
Ion Ratio Lower Upper

154 100

153 460.6 369.8 554.8

152 229.2 194.4 291.6





#13

Fluorene

Concen: 3.97 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

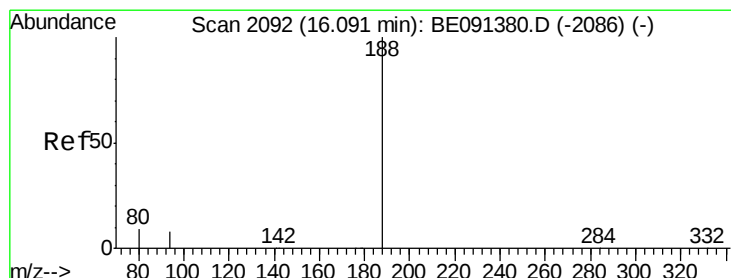
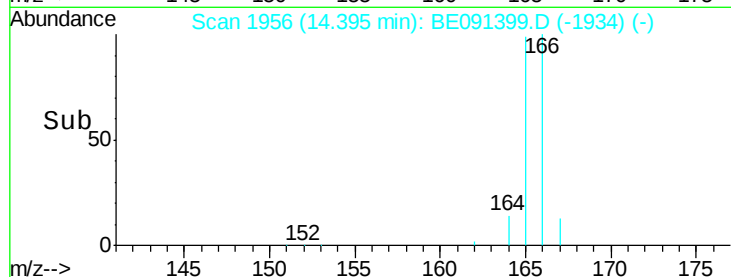
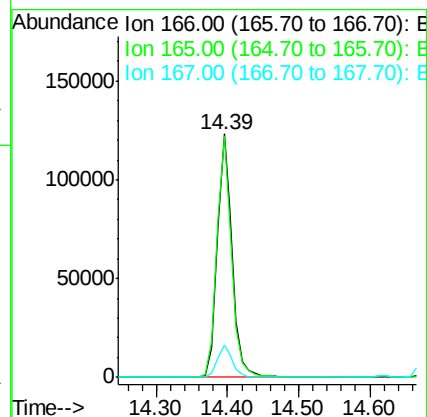
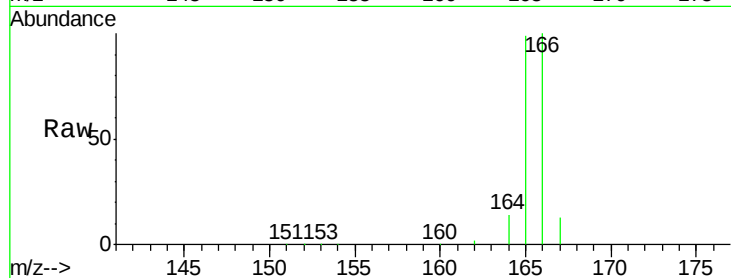
Tot Ion:166 Resp: 182731

Ion Ratio Lower Upper

166 100

165 98.5 79.3 118.9

167 13.5 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

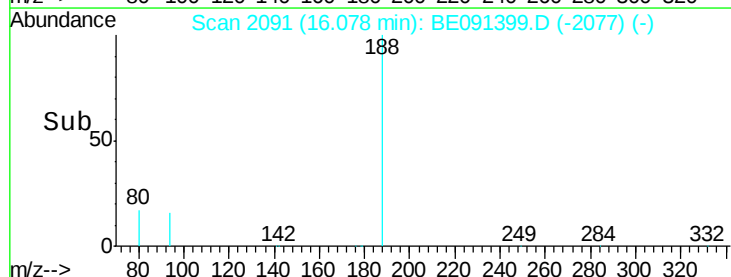
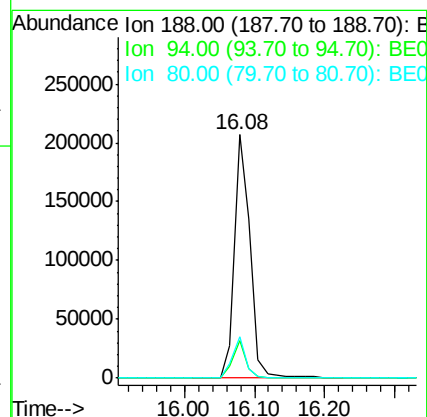
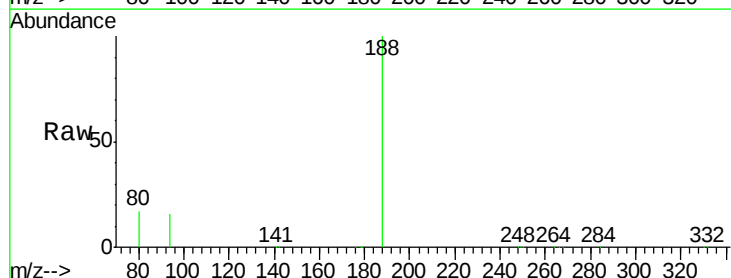
Tgt Ion:188 Resp: 317838

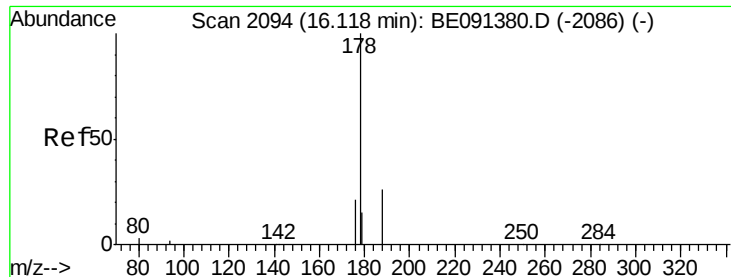
Ion Ratio Lower Upper

188 100

94 15.6 6.6 10.0#

80 16.8 7.0 10.6#





#15

Phenanthrene

Concen: 3.83 ng

RT: 16.12 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

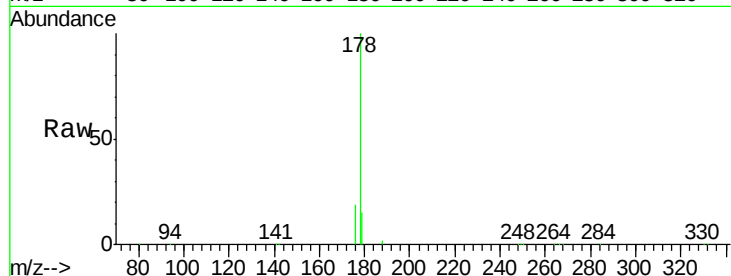
Instrument :

BNA_E

ClientSampleId :

Tot Ion:178 Resp: 319440

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.7	19.1

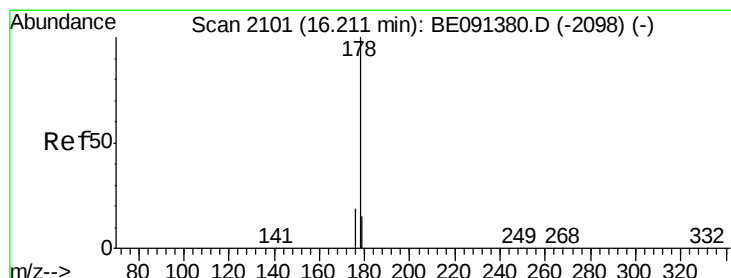
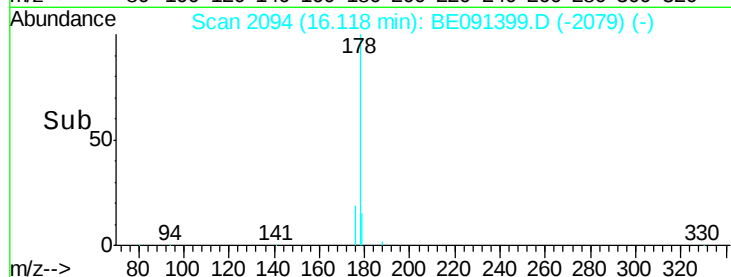
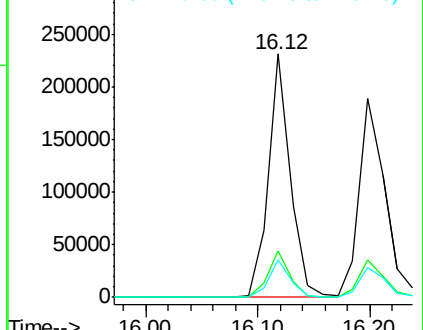


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#16

Anthracene

Concen: 4.39 ng

RT: 16.20 min Scan# 2100

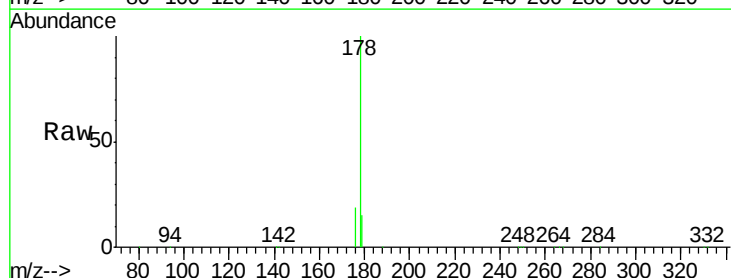
Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Tgt Ion:178 Resp: 307337

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	15.5	12.1	18.1

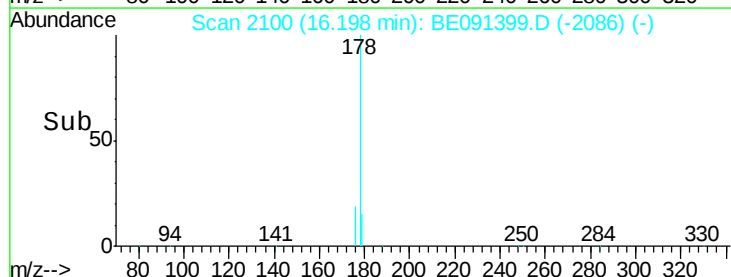
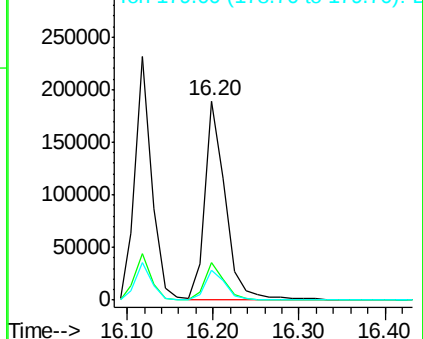


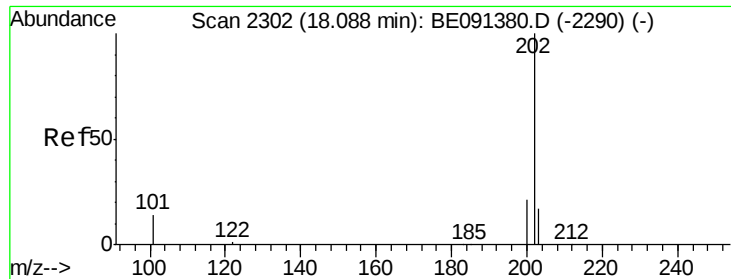
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

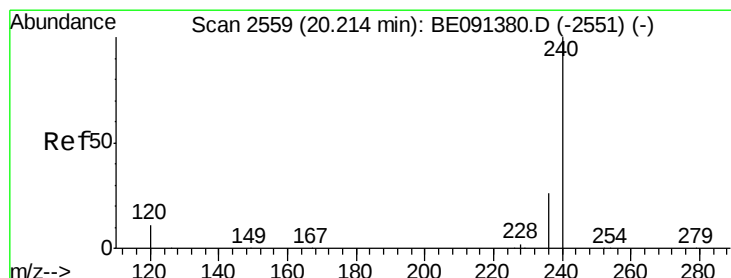
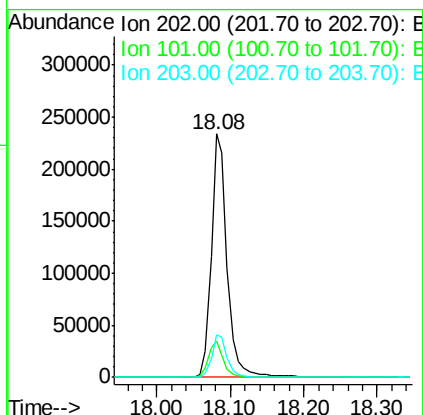
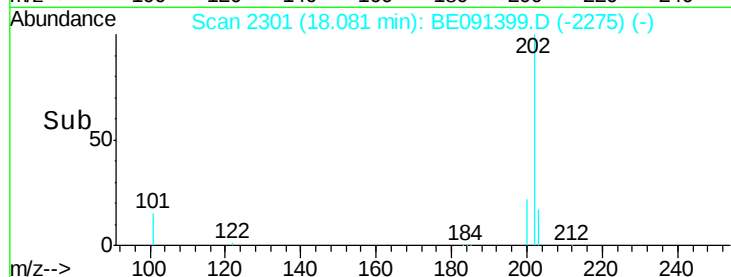
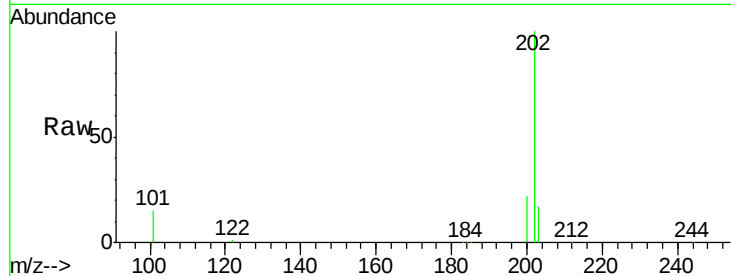




#17
 Fluoranthene
 Concen: 4.05 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091399.D
 Acq: 5 Feb 2016 14:38

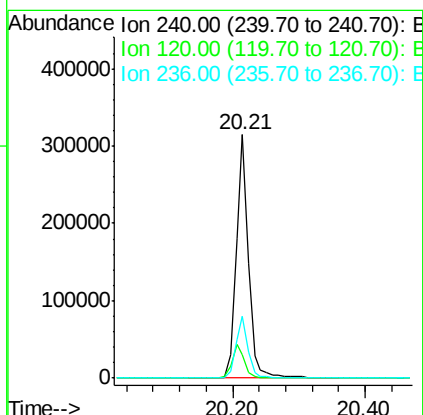
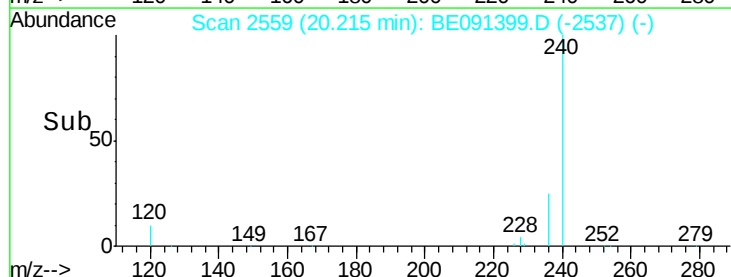
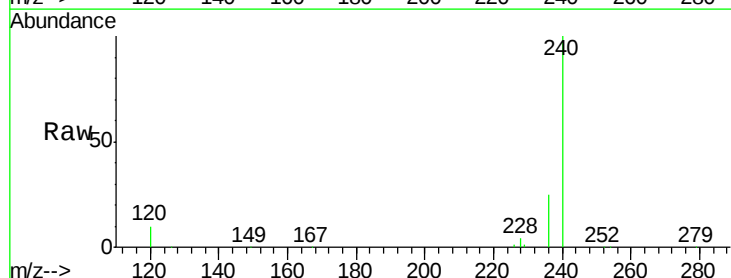
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:202 Resp: 352568
 Ion Ratio Lower Upper
 202 100
 101 14.1 10.5 15.7
 203 17.3 13.9 20.9



#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091399.D
 Acq: 5 Feb 2016 14:38

Tgt Ion:240 Resp: 399790
 Ion Ratio Lower Upper
 240 100
 120 9.9 8.9 13.3
 236 25.2 21.0 31.4





#19

Pvrene

Concen: 4.36 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

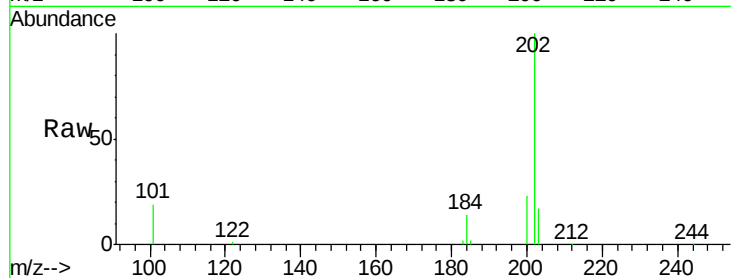
Tot Ion:202 Resp: 377555

Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

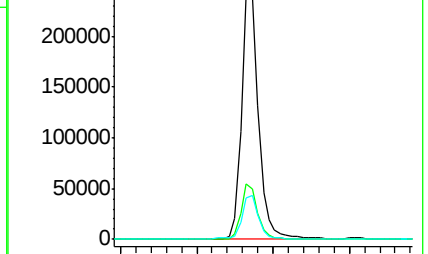
203 18.0 14.0 21.0



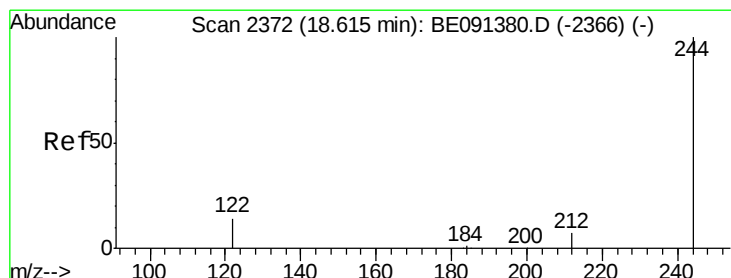
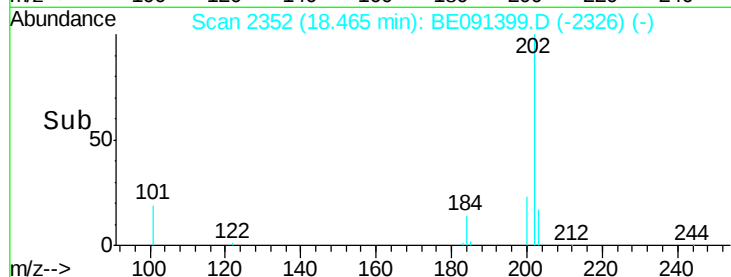
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 18.30 18.40 18.50 18.60



#20

Terphenyl-d14

Concen: 4.25 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

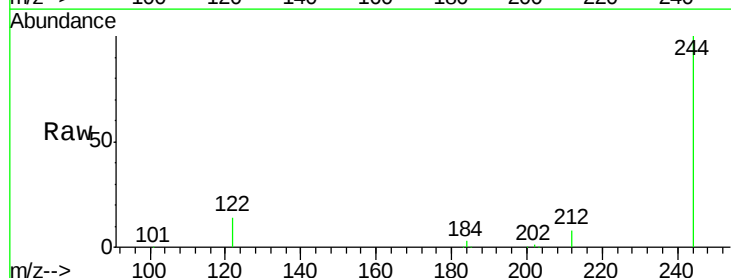
Tgt Ion:244 Resp: 251429

Ion Ratio Lower Upper

244 100

212 7.8 6.1 9.1

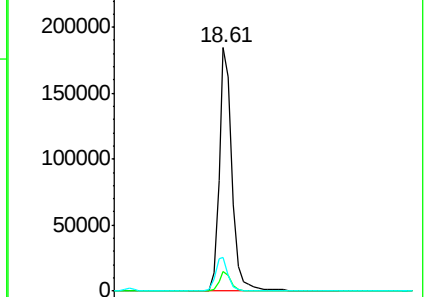
122 14.0 11.0 16.6



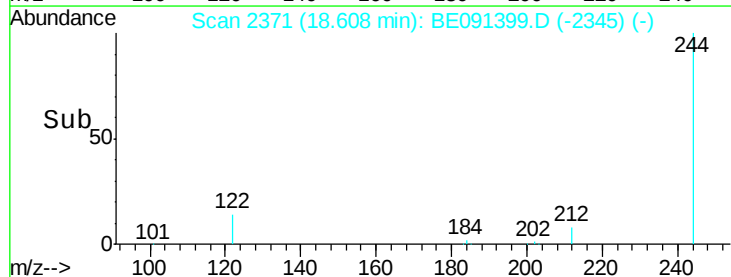
Abundance Ion 244.00 (243.70 to 244.70): E

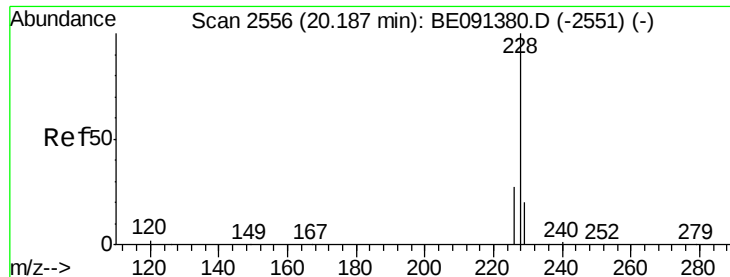
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time--> 18.60 18.80

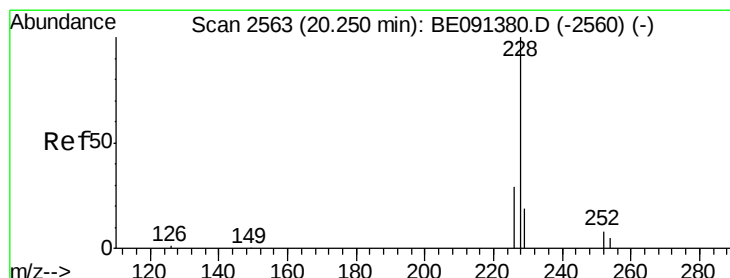
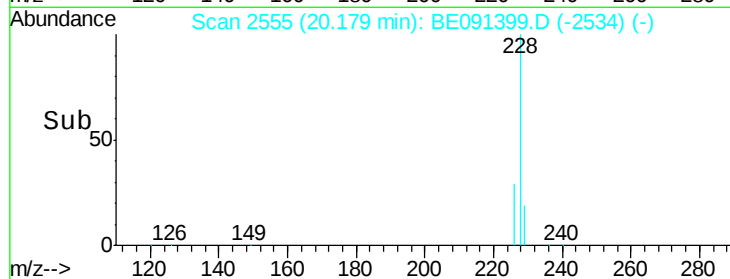
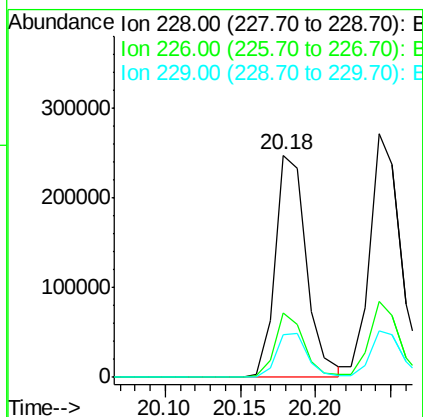
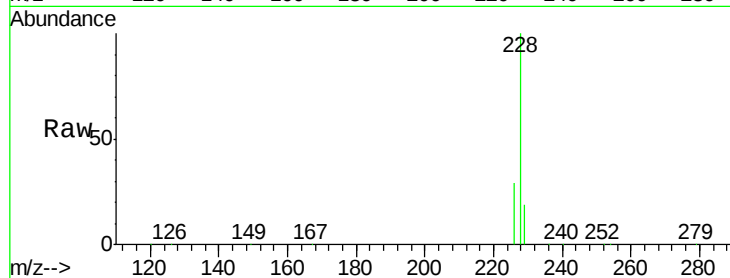




#21
Benzo(a)anthracene
Concen: 4.00 ng
RT: 20.18 min Scan# 2555
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

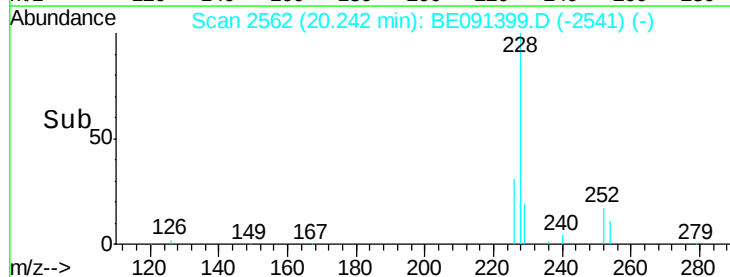
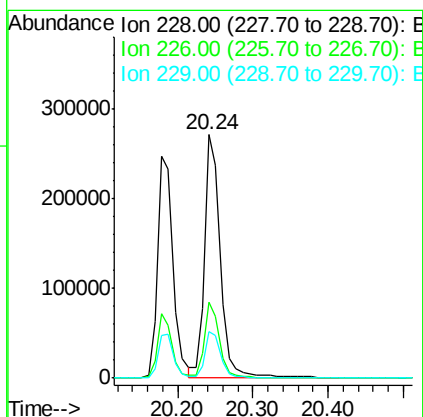
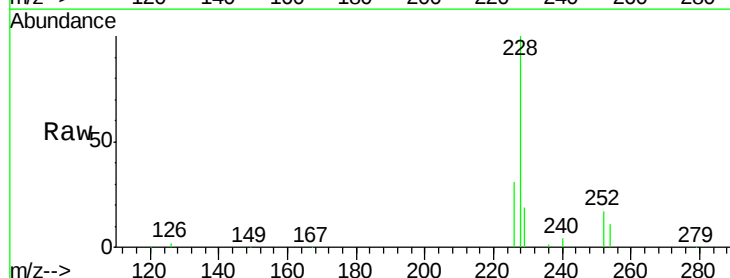
Instrument :
BNA_E
ClientSampleId :

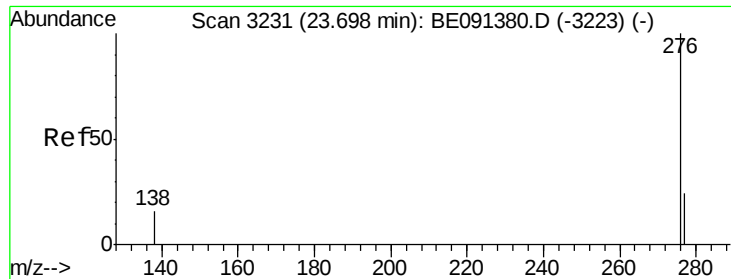
Tot Ion:228 Resp: 353693
Ion Ratio Lower Upper
228 100
226 28.9 21.7 32.5
229 19.3 16.1 24.1



#22
Chrysene
Concen: 3.99 ng
RT: 20.24 min Scan# 2562
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:228 Resp: 396611
Ion Ratio Lower Upper
228 100
226 31.4 23.4 35.0
229 19.3 15.7 23.5

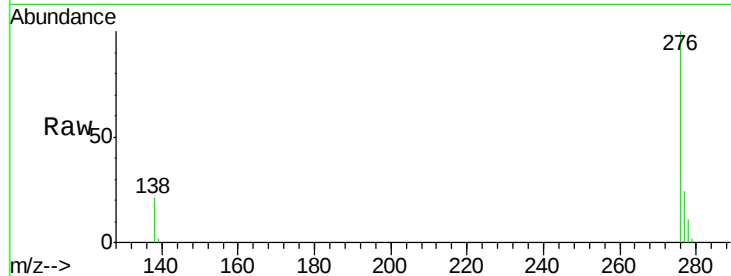




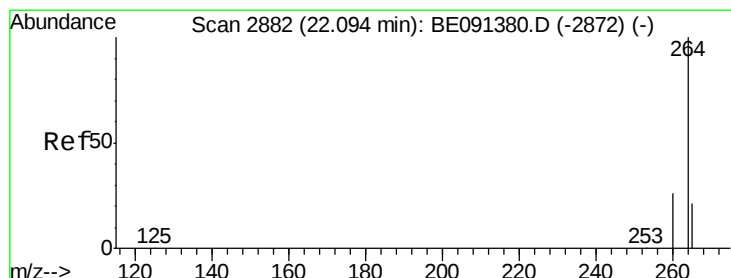
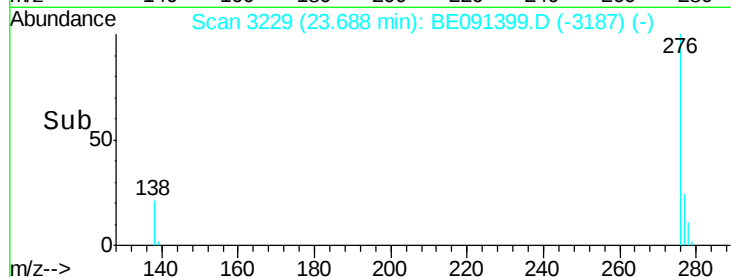
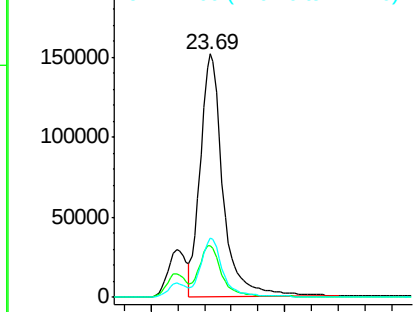
#23
Indeno(1,2,3-cd)pyrene
Concen: 3.94 ng
RT: 23.69 min Scan# 3229
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 354779
Ion Ratio Lower Upper
276 100
138 21.8 16.6 25.0
277 24.2 19.0 28.6

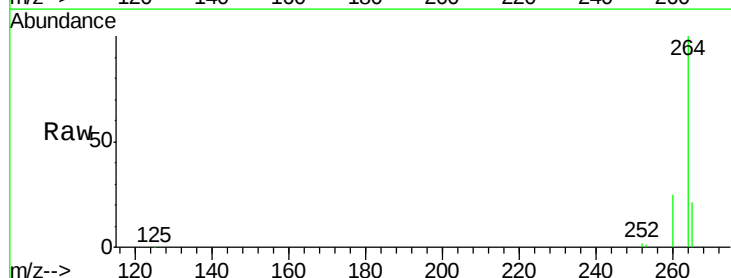


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

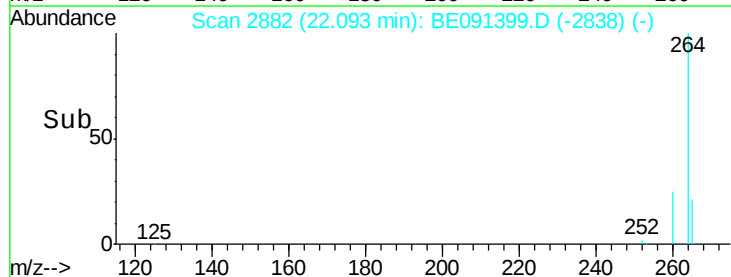
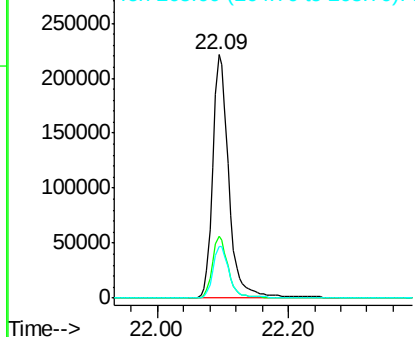


#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:264 Resp: 379579
Ion Ratio Lower Upper
264 100
260 25.4 20.7 31.1
265 21.4 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





#25

Benzo(b)fluoranthene

Concen: 3.96 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.00 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

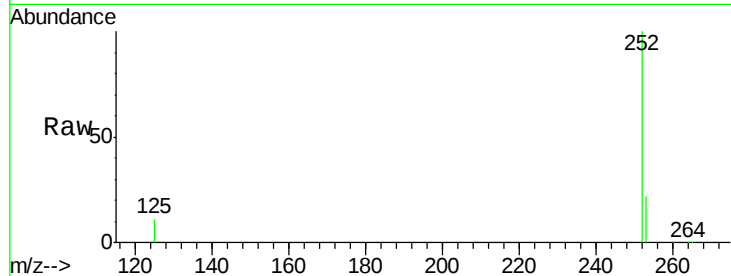
Tot Ion:252 Resp: 371220

Ion Ratio Lower Upper

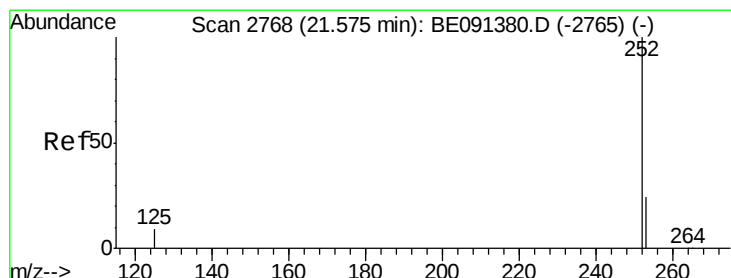
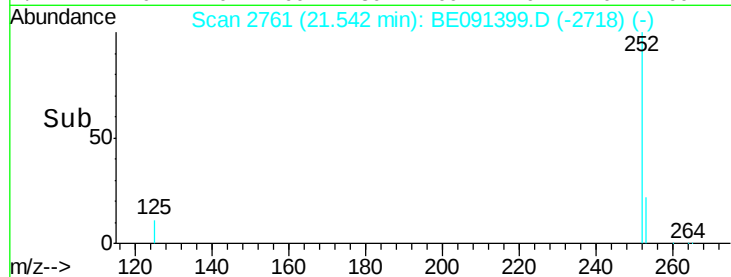
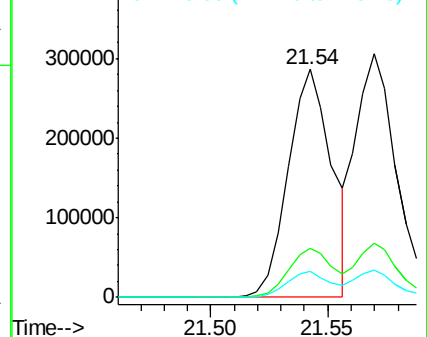
252 100

253 21.8 18.2 27.2

125 11.1 8.3 12.5



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



#26

Benzo(k)fluoranthene

Concen: 4.20 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

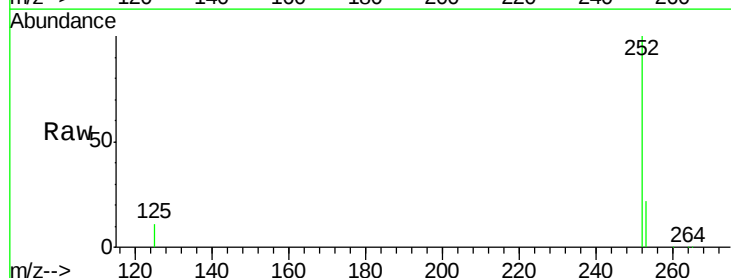
Tgt Ion:252 Resp: 398081

Ion Ratio Lower Upper

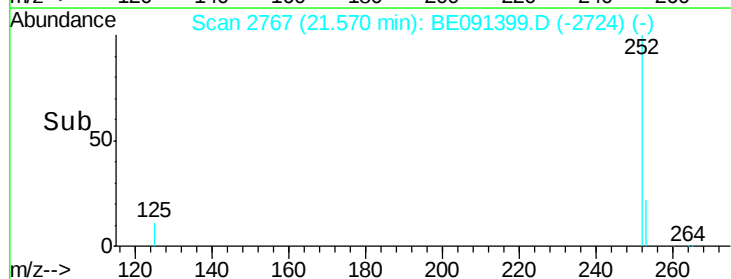
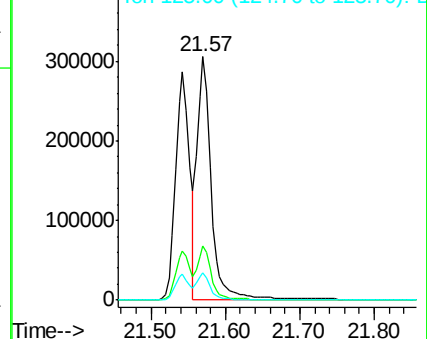
252 100

253 22.0 18.1 27.1

125 11.2 8.2 12.4



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

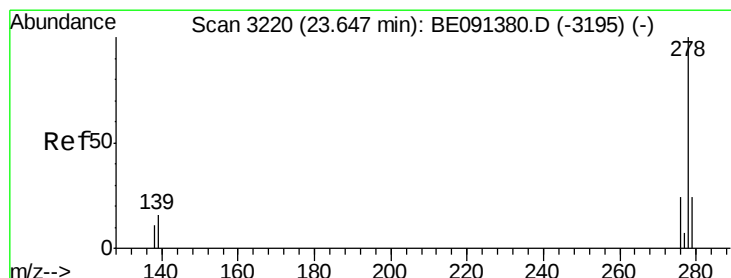
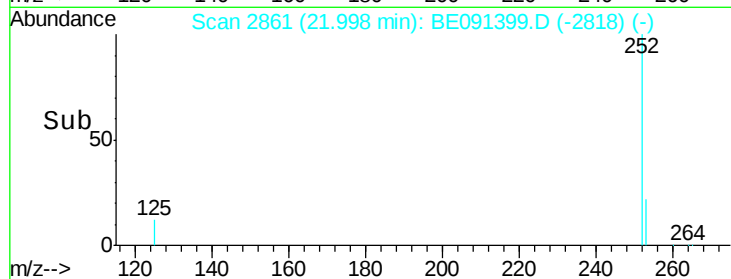
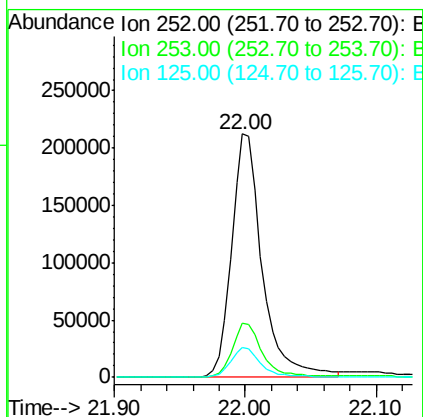
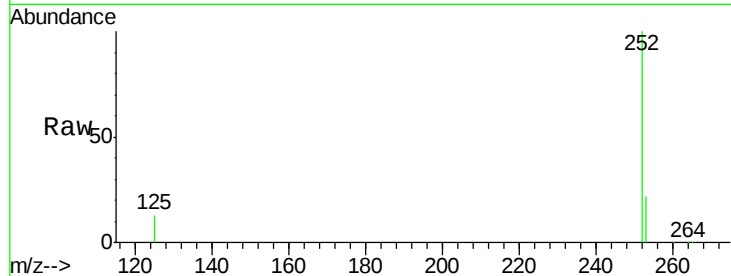




#27
Benzo(a)pyrene
Concen: 3.94 ng
RT: 22.00 min Scan# 2861
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

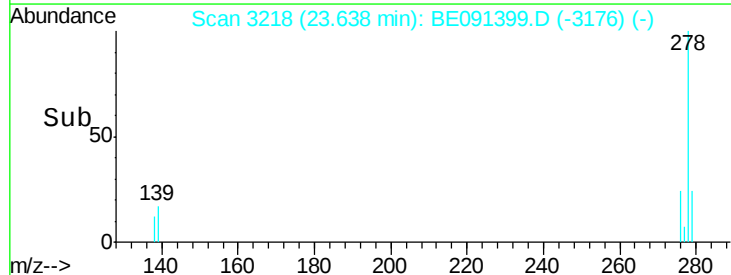
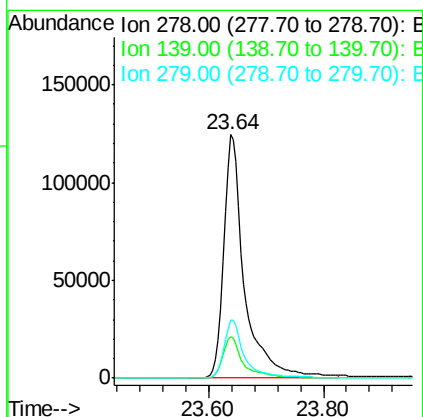
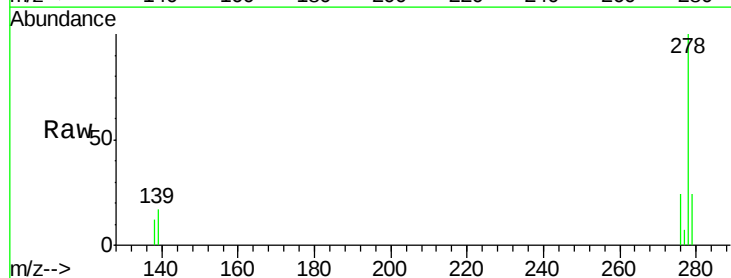
Instrument :
BNA_E
ClientSampleId :

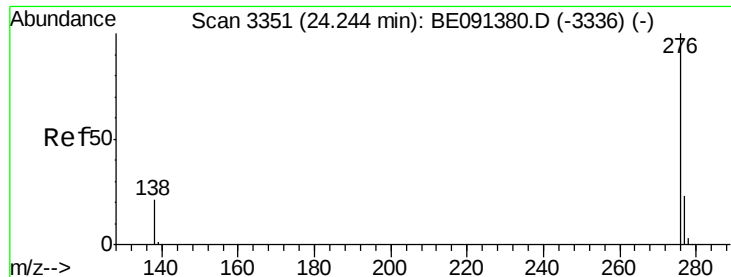
Tot Ion:252 Resp: 340946
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 12.5 9.4 14.0



#28
Dibenzo(a,h)anthracene
Concen: 3.74 ng
RT: 23.64 min Scan# 3218
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:278 Resp: 317613
Ion Ratio Lower Upper
278 100
139 17.2 13.0 19.4
279 23.8 19.2 28.8





#29

Benzo(a,h,i)perylene

Concen: 3.90 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.00 min

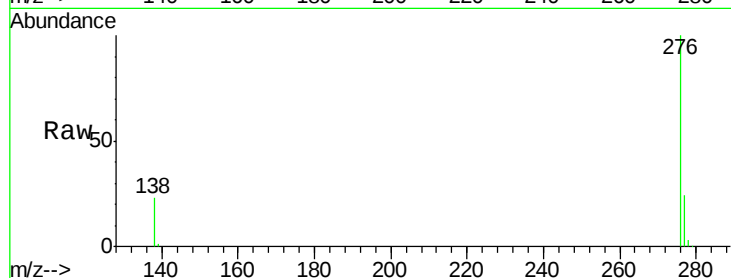
Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :



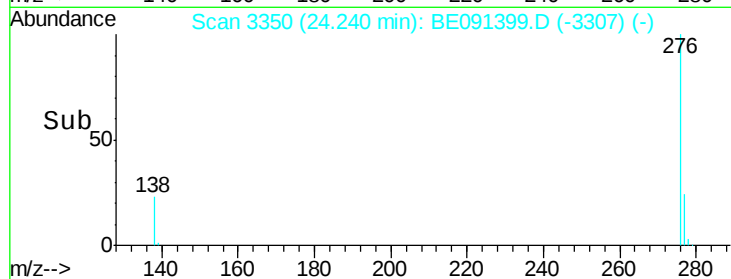
Tot Ion: 276 Resp: 364919

Ion Ratio Lower Upper

276 100

277 24.1 18.9 28.3

138 23.1 17.0 25.6



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

