

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020516\
 Data File : BE091400.D
 Acq On : 5 Feb 2016 15:14
 Operator : UM/IZ
 Sample : PB88200BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88200BSD

Quant Time: Feb 05 16:45:10 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	38138	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	183303	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	115389	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	286259	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	360209	5.00	ng	0.00
24) Perylene-d12	22.09	264	339743	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	49755	5.56	ng	-0.04
3) Phenol-d6	6.54	99	75936	5.97	ng	-0.03
5) Nitrobenzene-d5	8.15	82	38544	3.28	ng	-0.02
9) 2,4,6-Tribromophenol	14.89	330	32507	5.85	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	110317	3.67	ng	-0.01
20) Terphenyl-d14	18.62	244	190171	3.57	ng	0.00

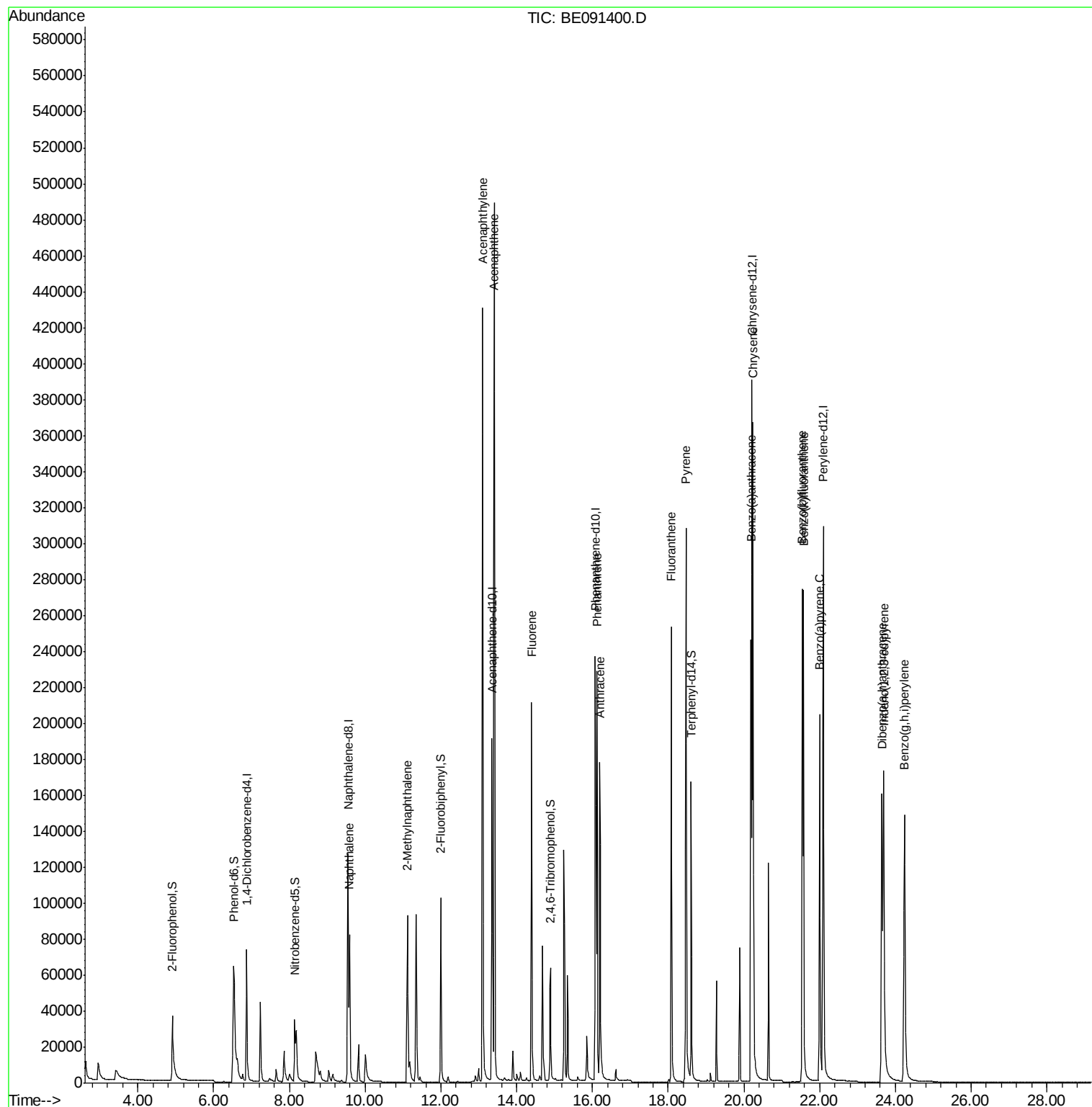
Target Compounds				Qvalue		
6) Naphthalene	9.58	128	120520	2.92	ng	100
7) 2-Methylnaphthalene	11.11	142	80027	3.16	ng	97
11) Acenaphthylene	13.10	152	591643	3.01	ng	100
12) Acenaphthene	13.41	154	93613	2.95	ng	98
13) Fluorene	14.39	166	134099	3.28	ng	100
15) Phenanthrene	16.12	178	238295	3.17	ng	99
16) Anthracene	16.20	178	229084	3.64	ng	100
17) Fluoranthene	18.08	202	262398	3.37	ng	99
19) Pyrene	18.47	202	280413	3.59	ng	100
21) Benzo(a)anthracene	20.19	228	254780	3.24	ng	98
22) Chrysene	20.24	228	292569	3.25	ng	96
23) Indeno(1,2,3-cd)pyrene	23.69	276	257938	3.21	ng	99
25) Benzo(b)fluoranthene	21.54	252	268241	3.23	ng	99
26) Benzo(k)fluoranthene	21.57	252	287715	3.40	ng	99
27) Benzo(a)pyrene	22.00	252	245792	3.21	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	230415	3.08	ng	99
29) Benzo(g,h,i)perylene	24.24	276	262789	3.17	ng	98

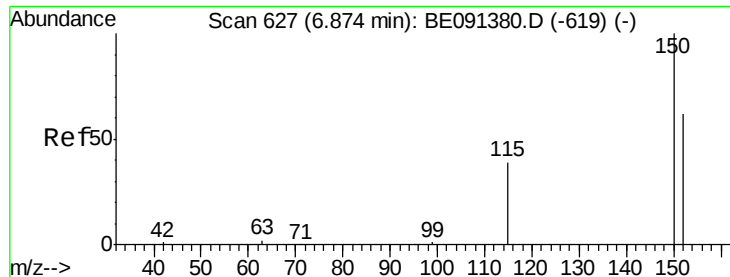
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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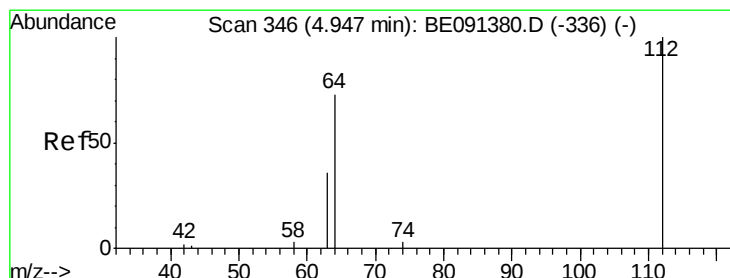
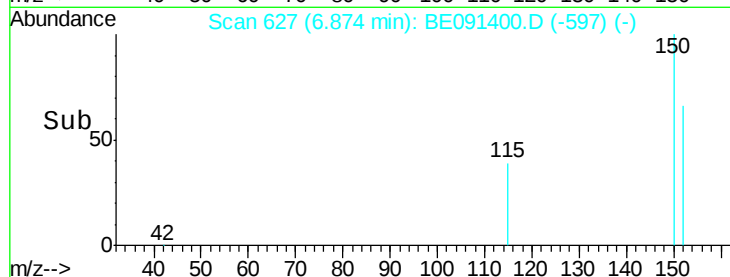
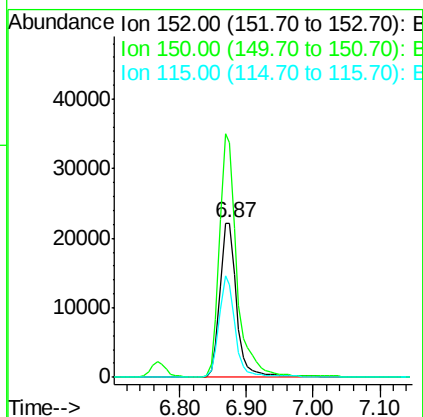
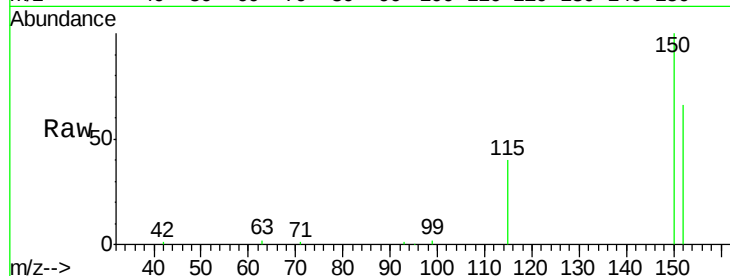


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

Instrument :
BNA_E
ClientSampleId :
PB88200BSD

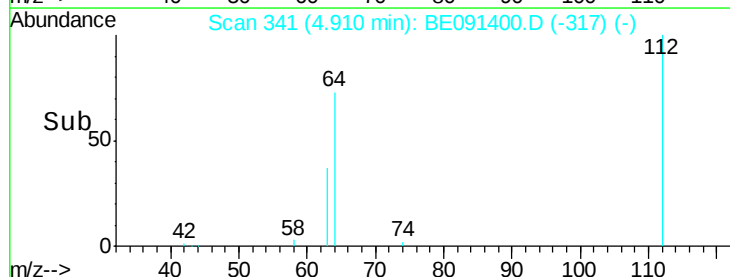
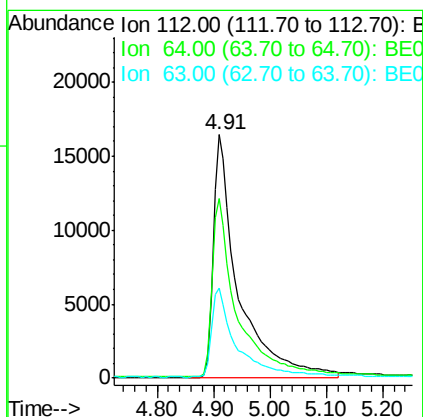
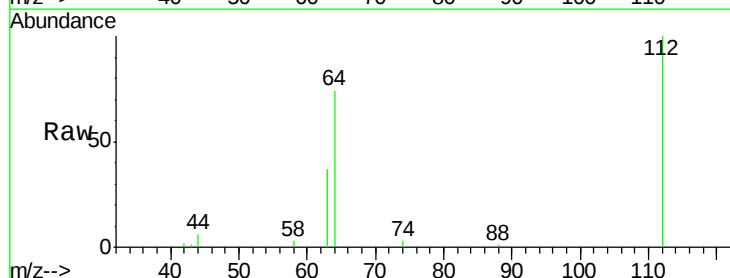
Tot Ion:152 Resp: 38138
Ion Ratio Lower Upper
152 100
150 152.4 128.9 193.3
115 60.4 50.9 76.3

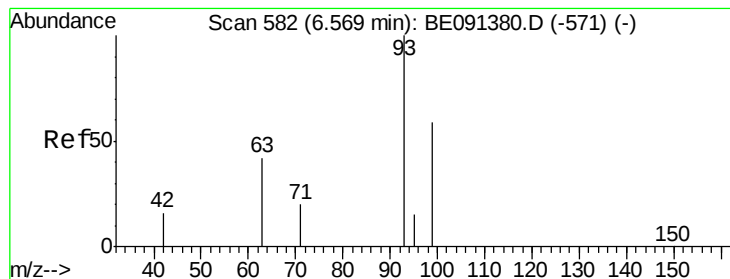


#2

2-Fluorophenol
Concen: 5.56 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.04 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

Tgt Ion:112 Resp: 49755
Ion Ratio Lower Upper
112 100
64 74.0 60.5 90.7
63 36.9 29.8 44.8





#3

Phenol-d6

Concen: 5.97 ng

RT: 6.54 min Scan# 577

Delta R.T. -0.03 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

BNA_E

ClientSampleId :

PB88200BSD

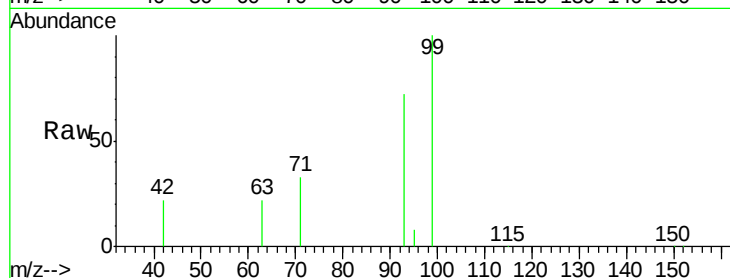
Tot Ion: 99 Resp: 75936

Ion Ratio Lower Upper

99 100

42 19.2 13.3 19.9

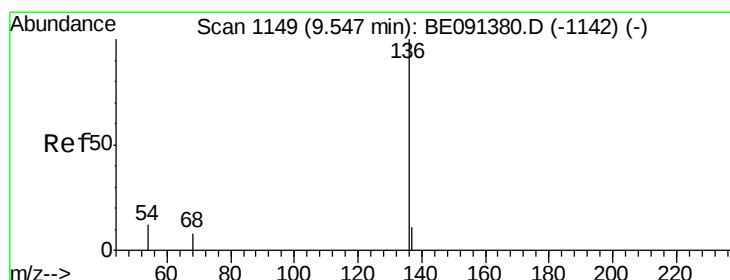
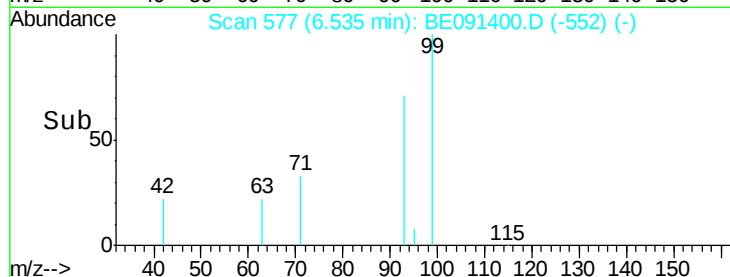
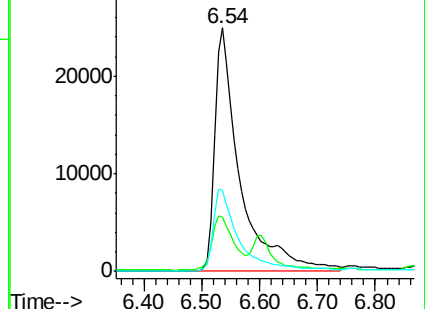
71 34.2 25.6 38.4



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: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Tgt Ion: 136 Resp: 183303

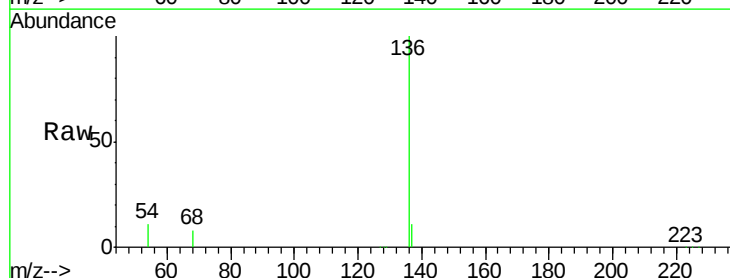
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 10.8 9.3 13.9

68 7.9 6.7 10.1

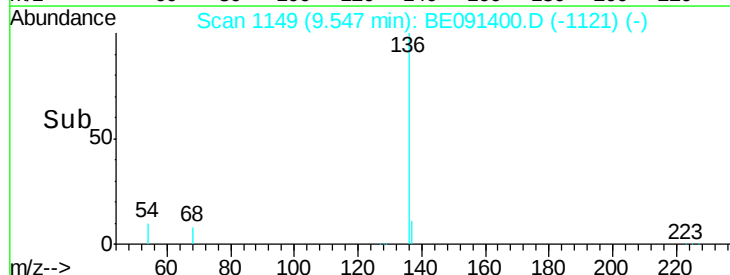
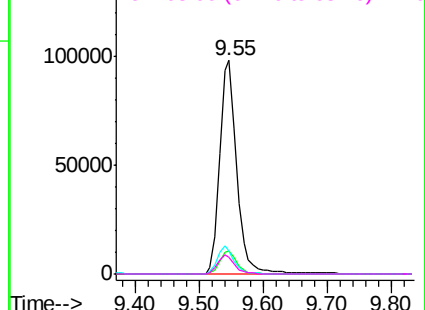


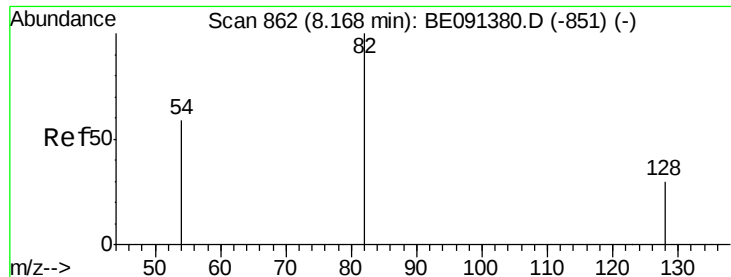
Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.28 ng

RT: 8.15 min Scan# 857

Delta R.T. -0.02 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

BNA_E

ClientSampleId :

PB88200BSD

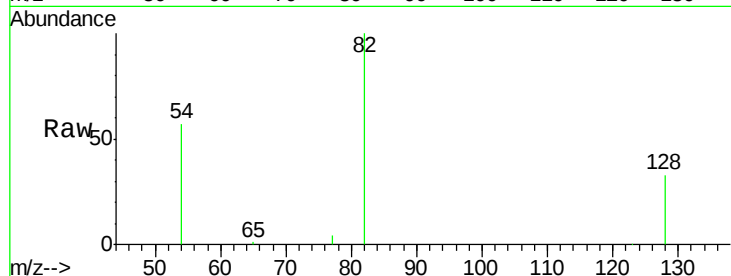
Tot Ion: 82 Resp: 38544

Ion Ratio Lower Upper

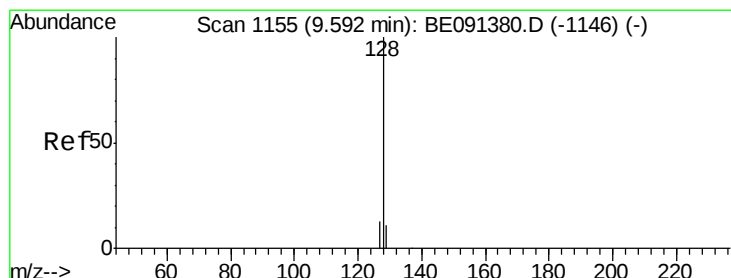
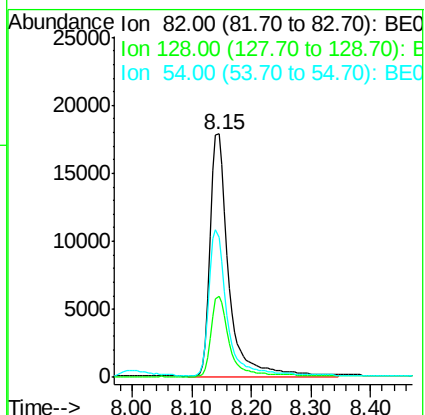
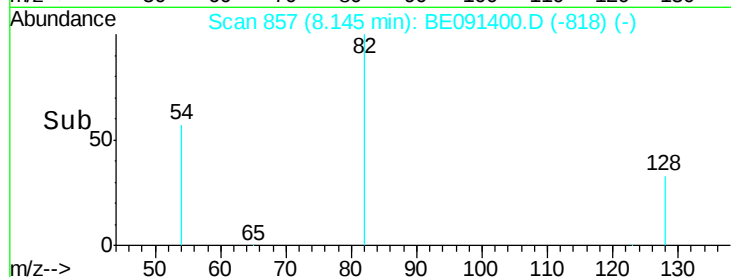
82 100

128 33.3 25.0 37.4

54 57.3 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: 2.92 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

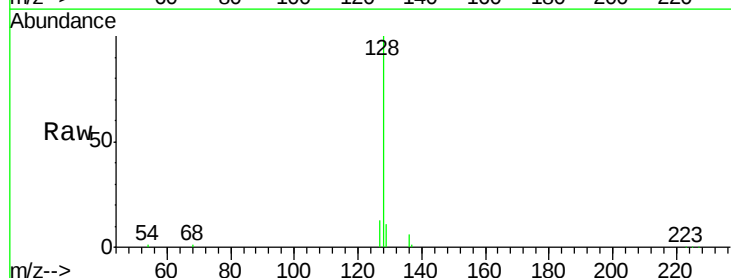
Tgt Ion: 128 Resp: 120520

Ion Ratio Lower Upper

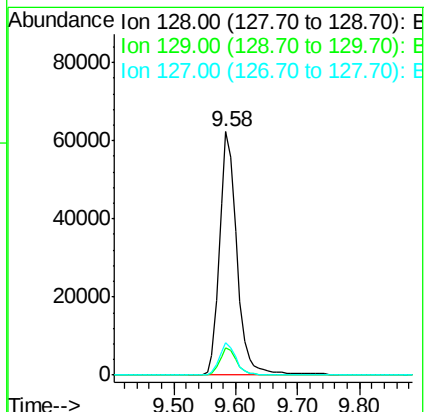
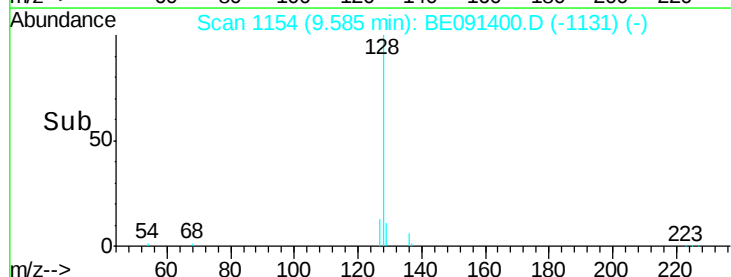
128 100

129 11.1 9.1 13.7

127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE
Ion 129.00 (128.70 to 129.70): BE
Ion 127.00 (126.70 to 127.70): BE





#7

2-Methylnaphthalene

Concen: 3.16 ng

RT: 11.11 min Scan# 1406

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

BNA_E

ClientSampleId :

PB88200BSD

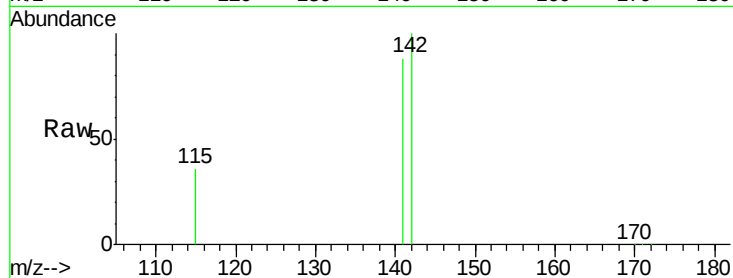
Tot Ion:142 Resp: 80027

Ion Ratio Lower Upper

142 100

141 88.5 72.3 108.5

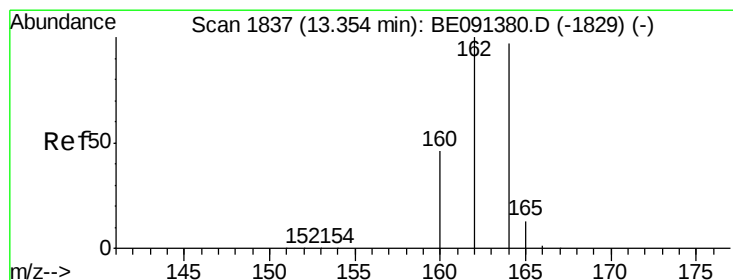
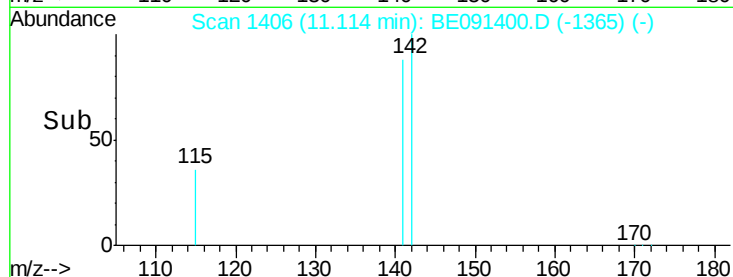
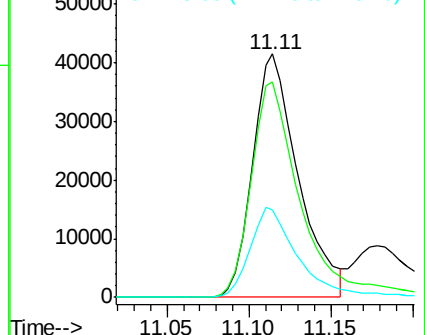
115 35.9 30.5 45.7



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# 1837

Delta R.T. 0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

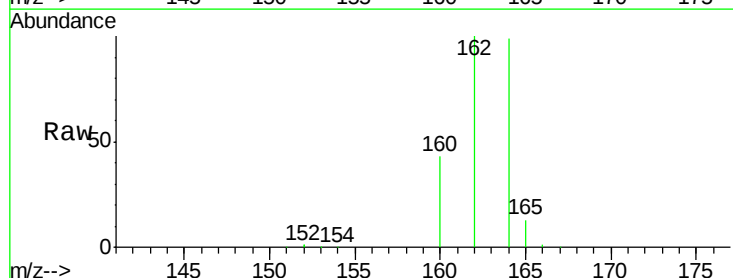
Tgt Ion:164 Resp: 115389

Ion Ratio Lower Upper

164 100

162 100.8 82.2 123.2

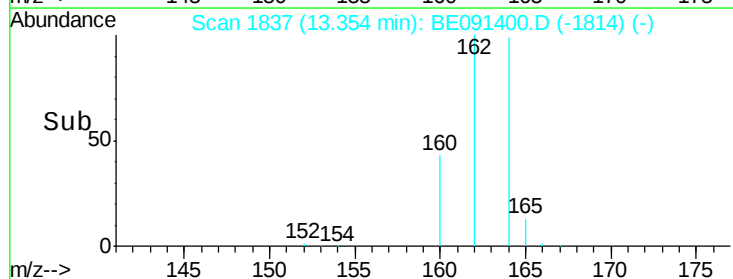
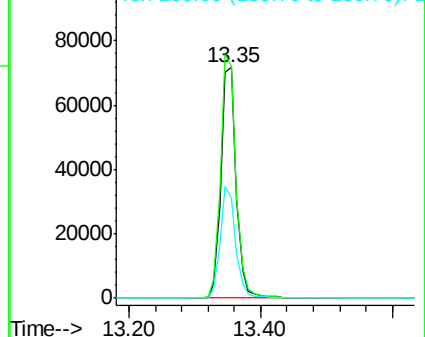
160 43.8 37.8 56.8



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: 5.85 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

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PB88200BSD

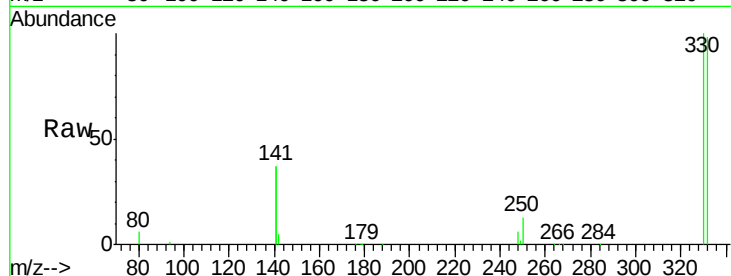
Tot Ion:330 Resp: 32507

Ion Ratio Lower Upper

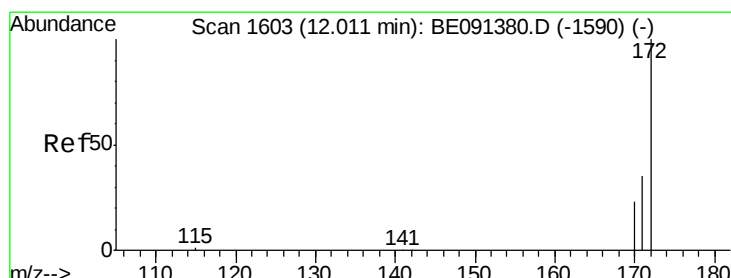
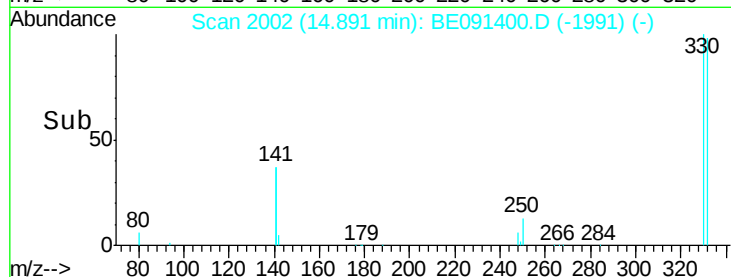
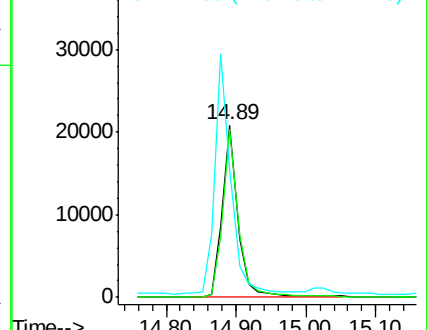
330 100

332 97.3 78.8 118.2

141 141.7 105.1 157.7



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: 3.67 ng

RT: 12.00 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

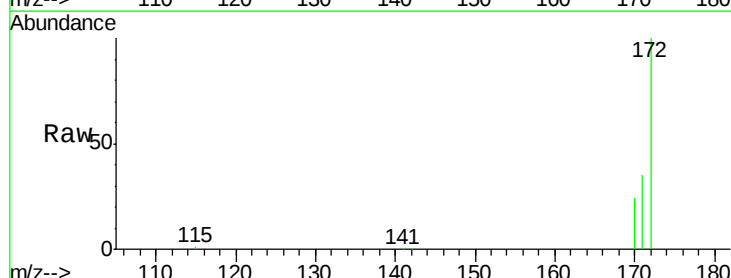
Tgt Ion:172 Resp: 110317

Ion Ratio Lower Upper

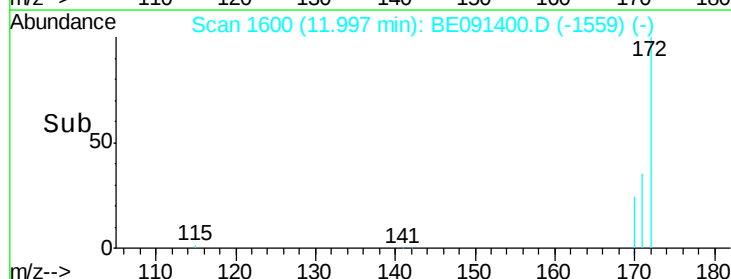
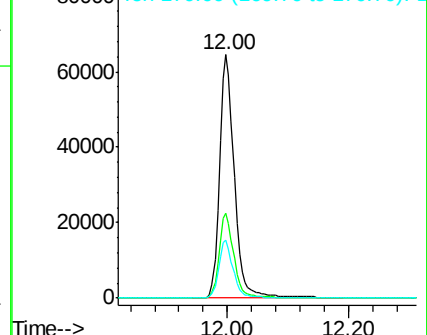
172 100

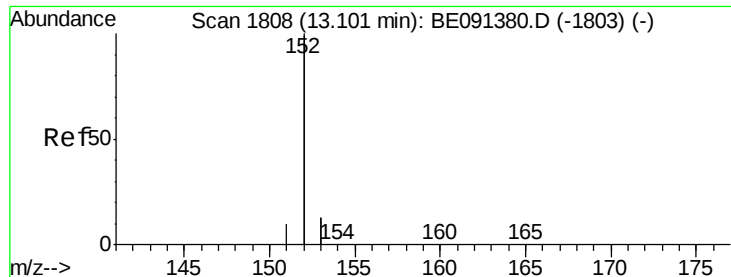
171 34.9 27.8 41.8

170 23.8 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: 3.01 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

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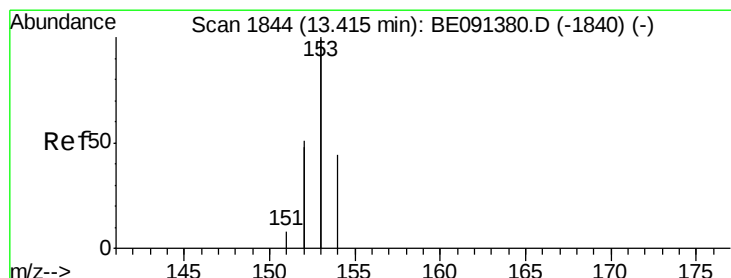
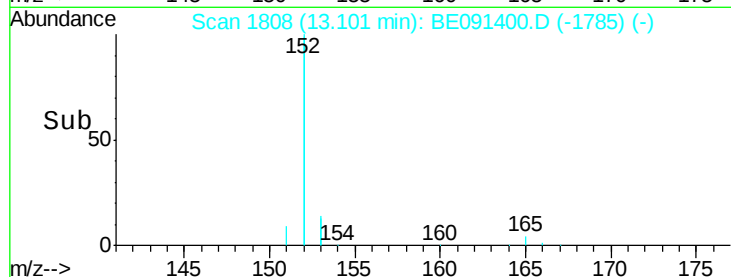
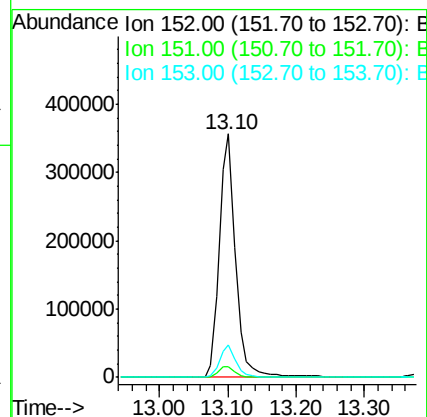
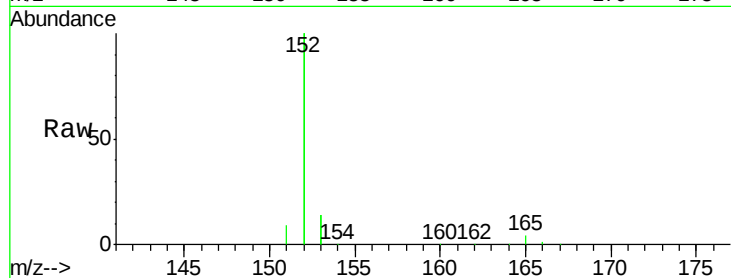
Tot Ion:152 Resp: 591643

Ion Ratio Lower Upper

152 100

151 4.7 3.8 5.8

153 13.0 10.2 15.4



#12

Acenaphthene

Concen: 2.95 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

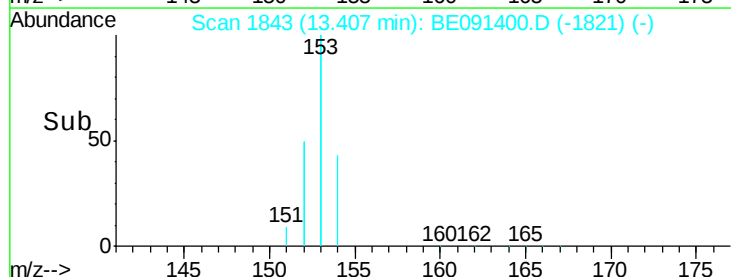
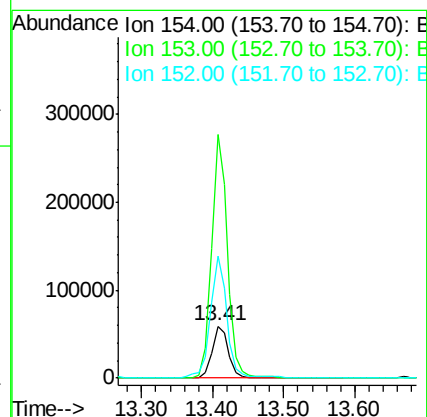
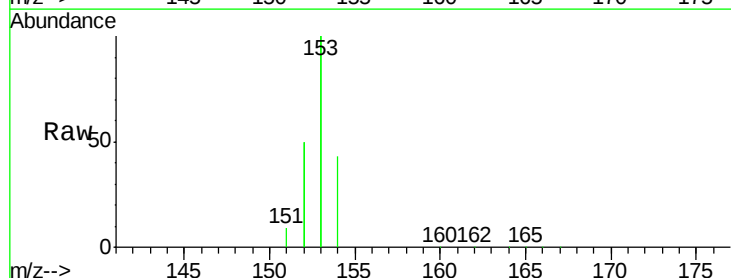
Tgt Ion:154 Resp: 93613

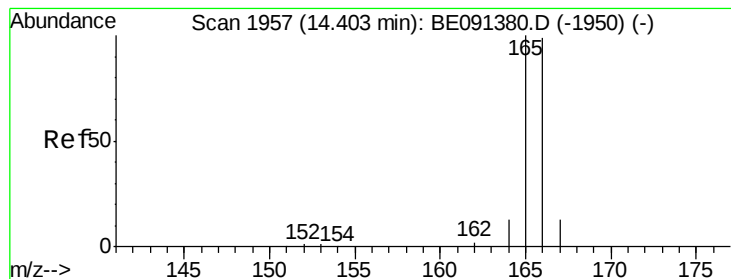
Ion Ratio Lower Upper

154 100

153 459.2 369.8 554.8

152 235.3 194.4 291.6





#13

Fluorene

Concen: 3.28 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

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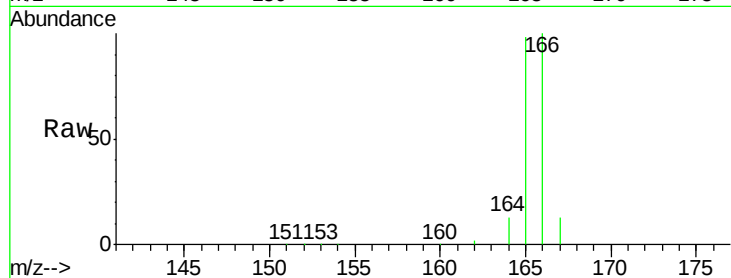
Tot Ion:166 Resp: 134099

Ion Ratio Lower Upper

166 100

165 98.6 79.3 118.9

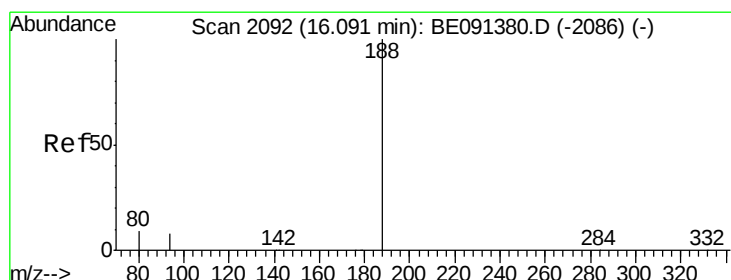
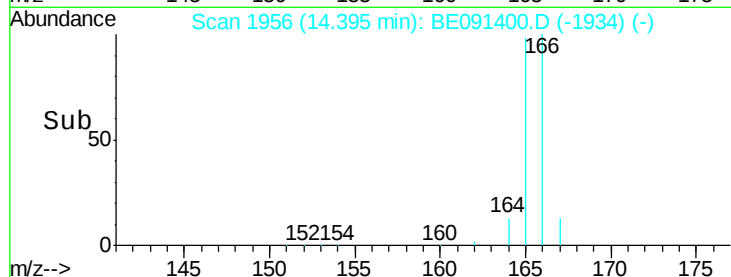
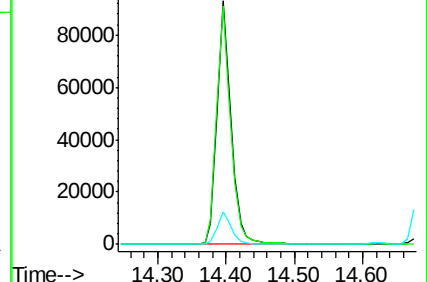
167 13.4 10.6 16.0



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



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

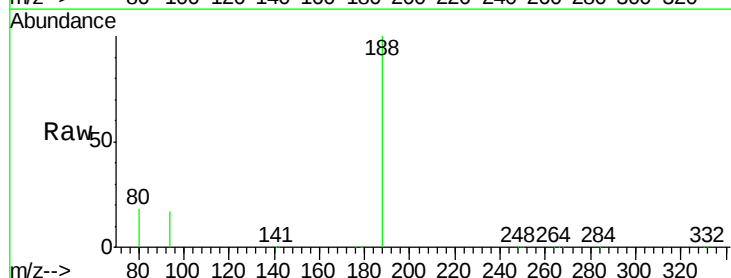
Tgt Ion:188 Resp: 286259

Ion Ratio Lower Upper

188 100

94 16.5 6.6 10.0#

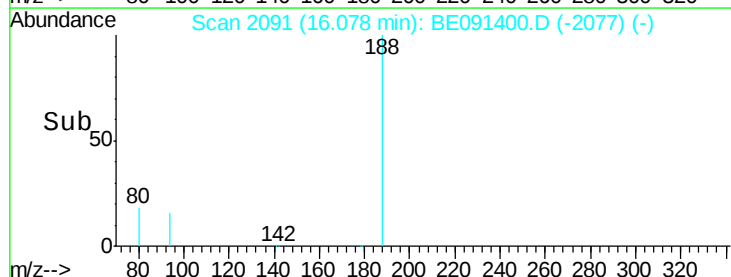
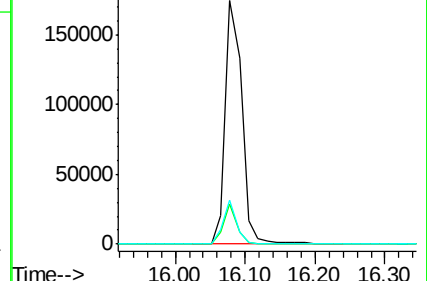
80 18.2 7.0 10.6#

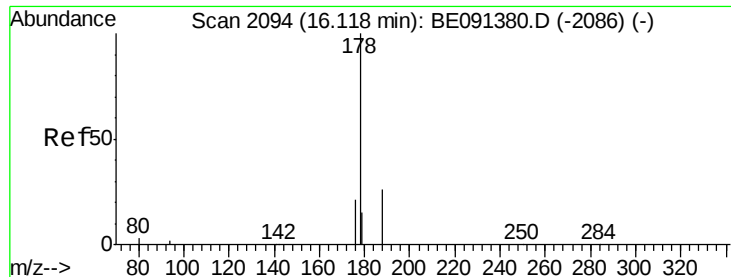


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#15

Phenanthrene

Concen: 3.17 ng

RT: 16.12 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

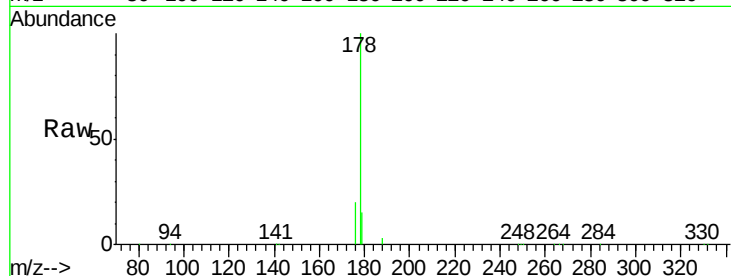
BNA_E

ClientSampleId :

PB88200BSD

Tot Ion:178 Resp: 238295

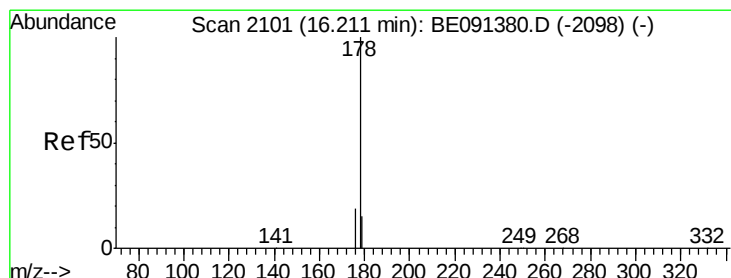
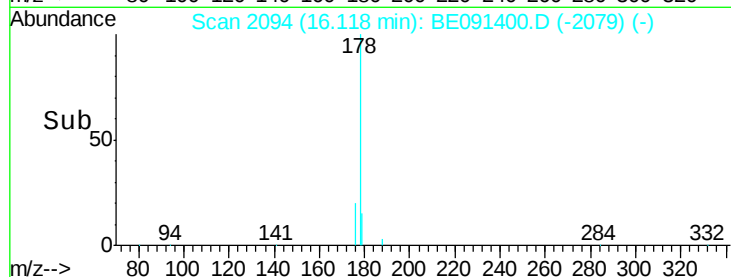
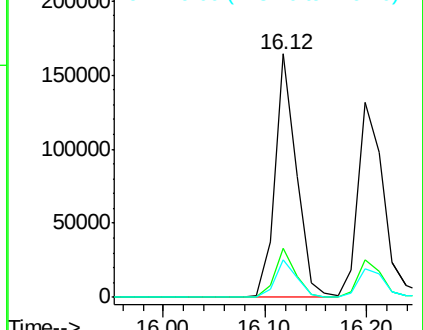
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.5	12.7	19.1



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: 3.64 ng

RT: 16.20 min Scan# 2100

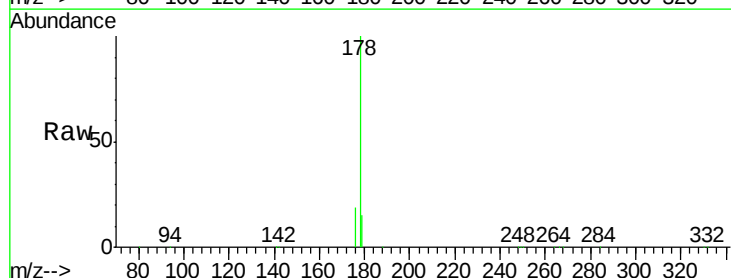
Delta R.T. -0.01 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Tgt Ion:178 Resp: 229084

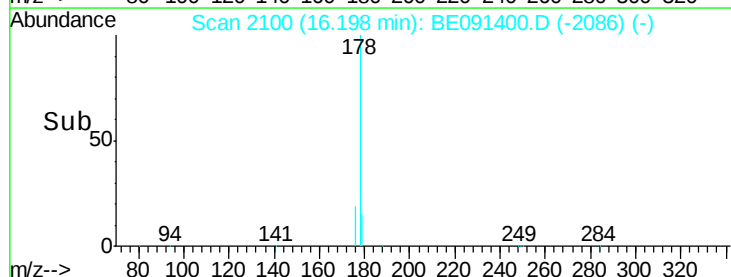
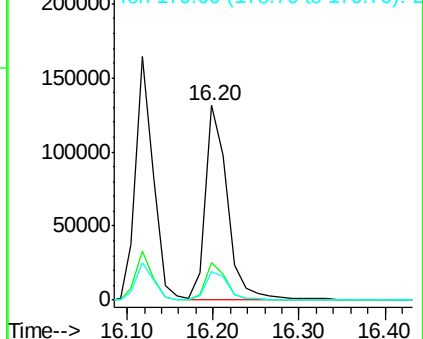
Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	15.4	12.1	18.1

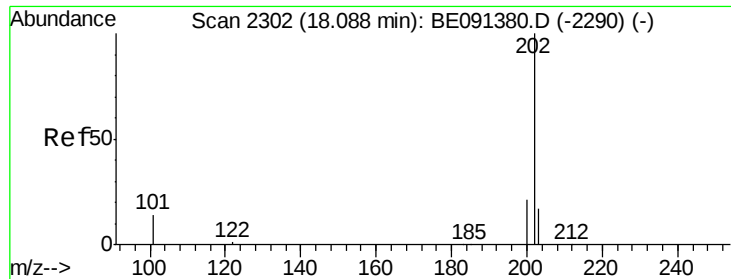


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

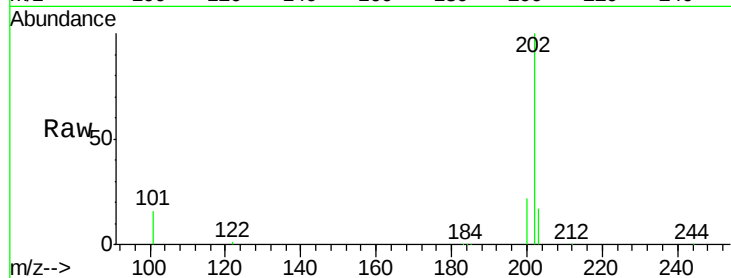




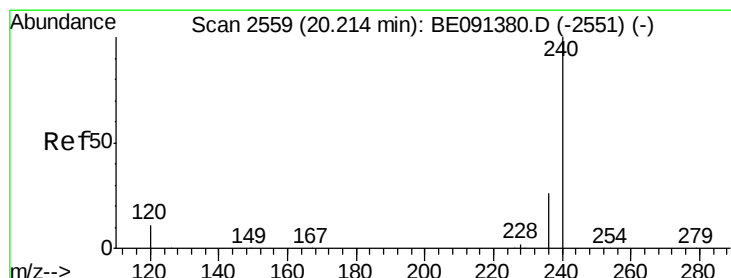
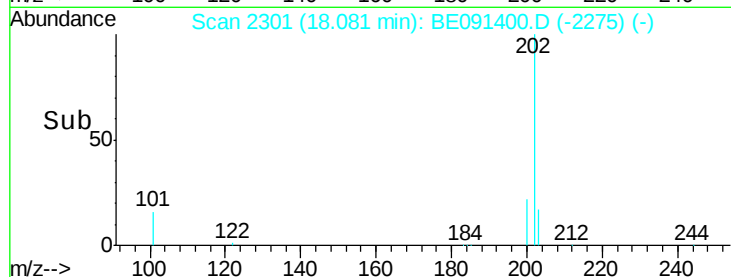
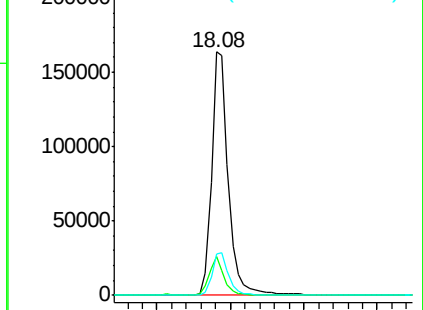
#17
 Fluoranthene
 Concen: 3.37 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091400.D
 Acq: 5 Feb 2016 15:14

Instrument :
 BNA_E
 ClientSampleId :
 PB88200BSD

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.2	10.5	15.7
203	17.3	13.9	20.9

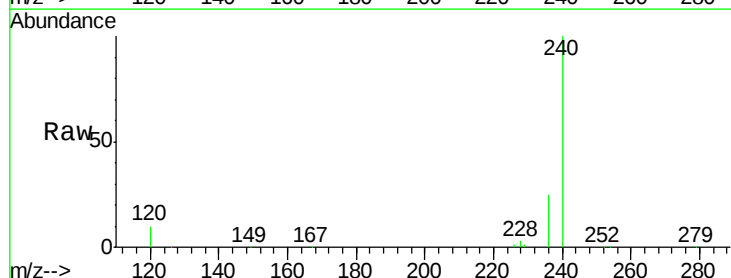


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

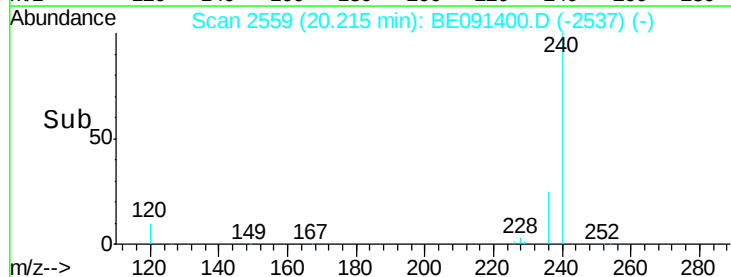
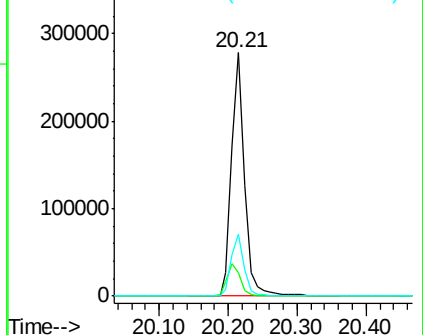


#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091400.D
 Acq: 5 Feb 2016 15:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.9	13.3
236	25.4	21.0	31.4



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





#19

Pvrene

Concen: 3.59 ng

RT: 18.47 min Scan# 2353

Delta R.T. 0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

BNA_E

ClientSampleId :

PB88200BSD

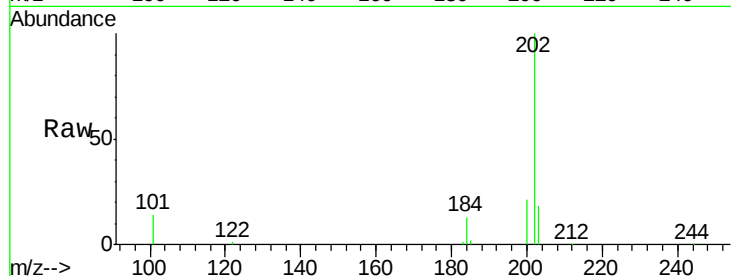
Tot Ion:202 Resp: 280413

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

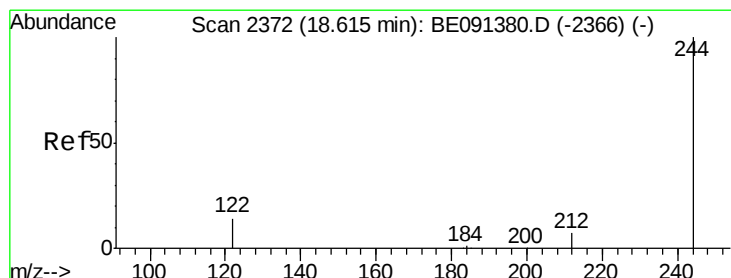
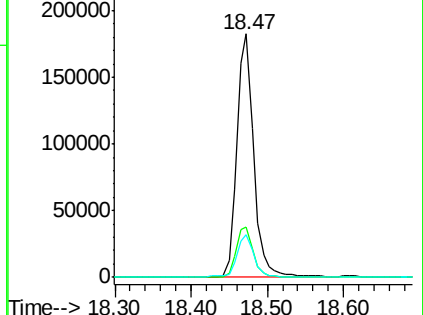
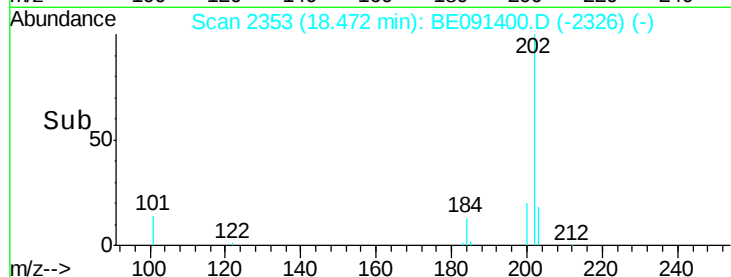
203 17.9 14.0 21.0



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



#20

Terphenyl-d14

Concen: 3.57 ng

RT: 18.62 min Scan# 2372

Delta R.T. 0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

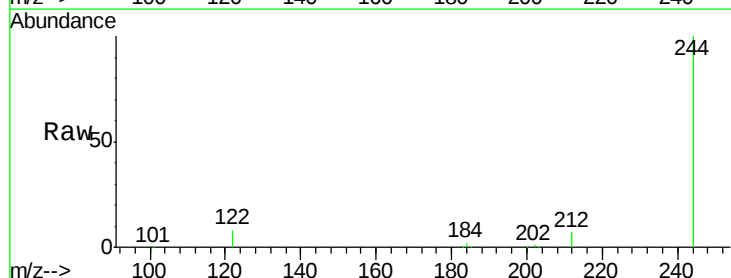
Tgt Ion:244 Resp: 190171

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

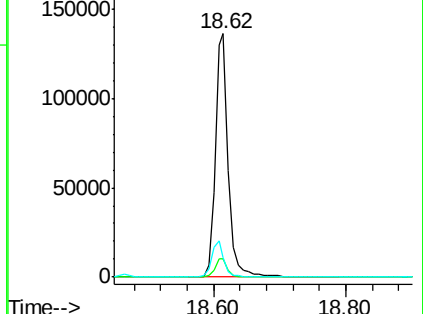
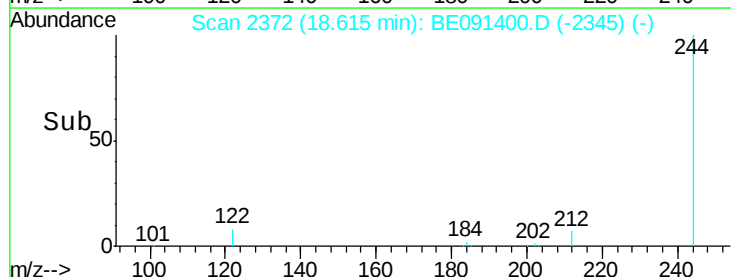
122 8.1 11.0 16.6#

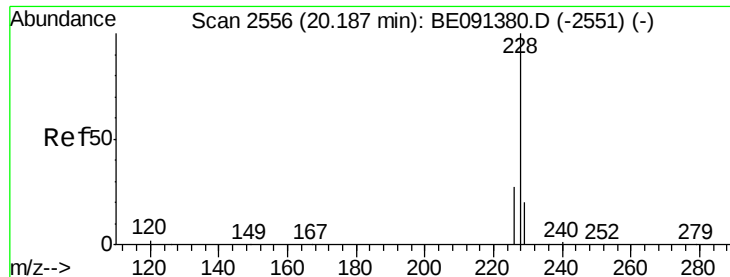


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

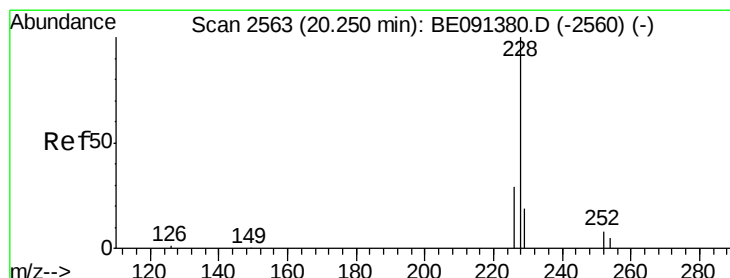
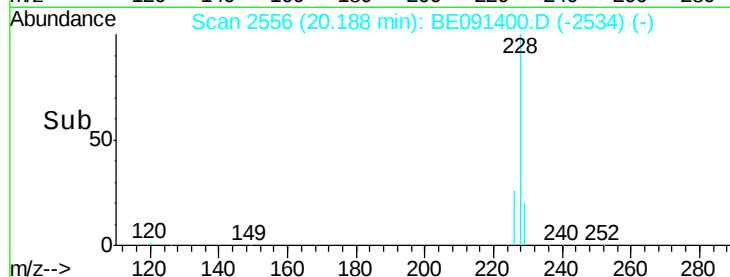
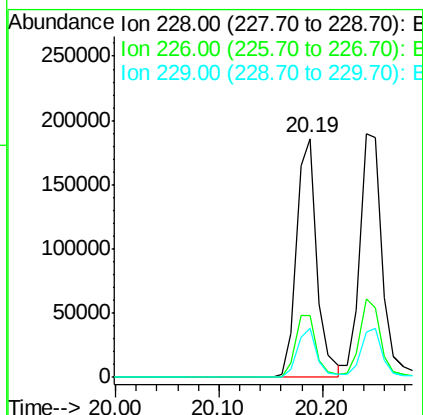
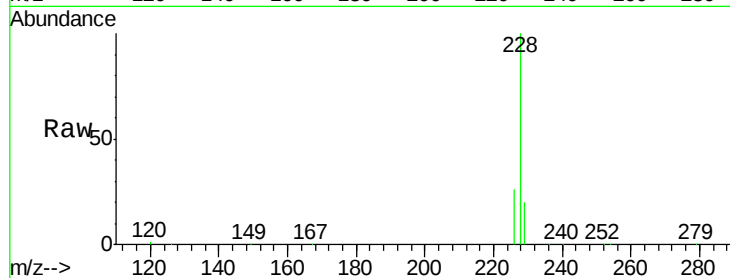




#21
Benzo(a)anthracene
Concen: 3.24 ng
RT: 20.19 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

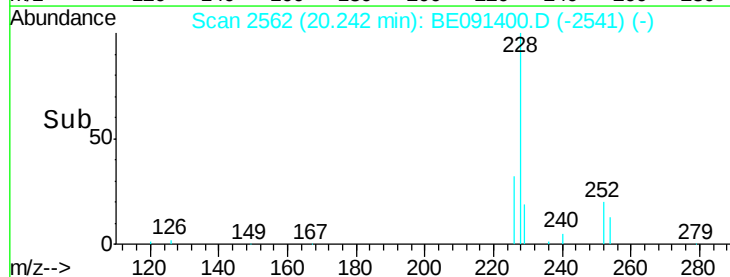
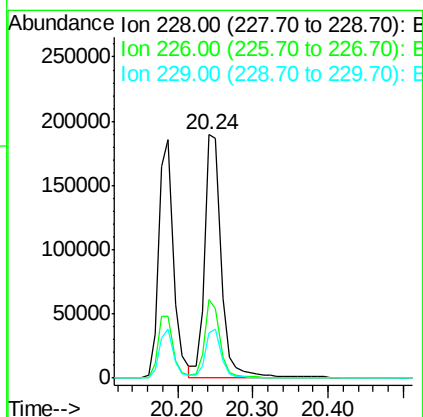
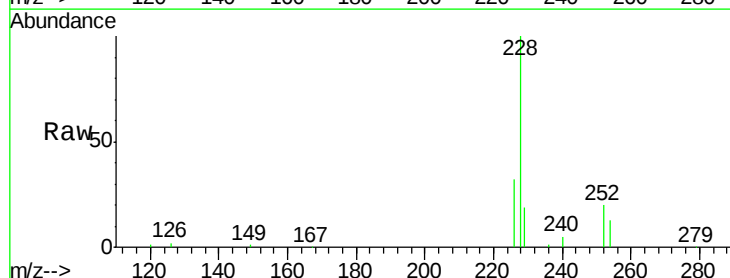
Instrument :
BNA_E
ClientSampleId :
PB88200BSD

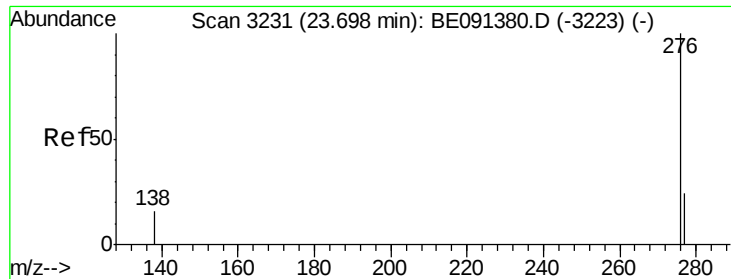
Tot Ion:228 Resp: 254780
Ion Ratio Lower Upper
228 100
226 25.7 21.7 32.5
229 20.5 16.1 24.1



#22
Chrysene
Concen: 3.25 ng
RT: 20.24 min Scan# 2562
Delta R.T. -0.01 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

Tgt Ion:228 Resp: 292569
Ion Ratio Lower Upper
228 100
226 32.2 23.4 35.0
229 18.6 15.7 23.5

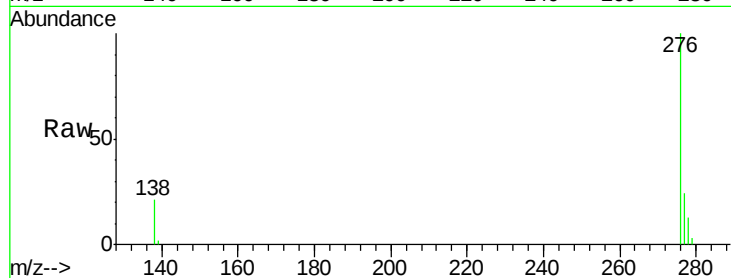




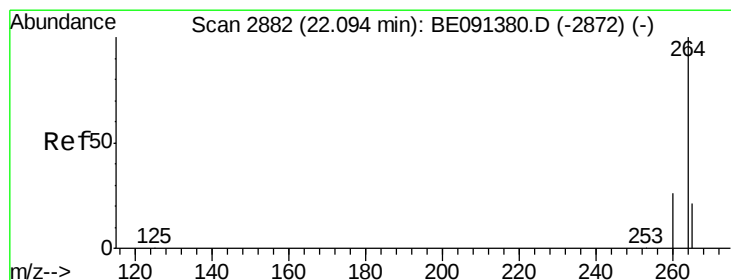
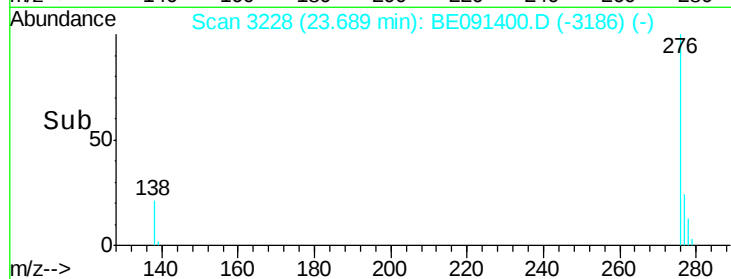
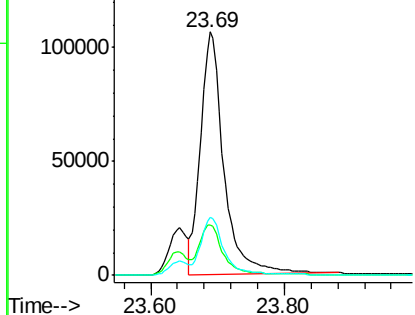
#23
Indeno(1,2,3-cd)pyrene
Concen: 3.21 ng
RT: 23.69 min Scan# 3228
Delta R.T. -0.01 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

Instrument :
BNA_E
ClientSampleId :
PB88200BSD

Tot Ion:276 Resp: 257938
Ion Ratio Lower Upper
276 100
138 21.3 16.6 25.0
277 24.0 19.0 28.6

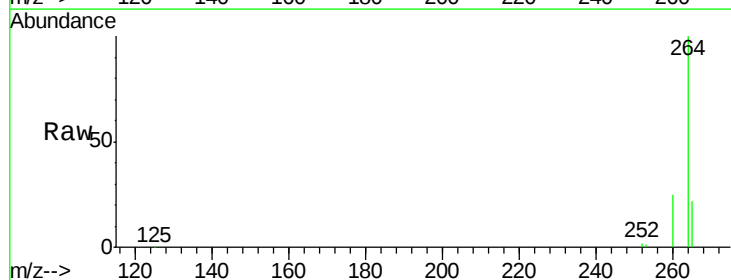


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

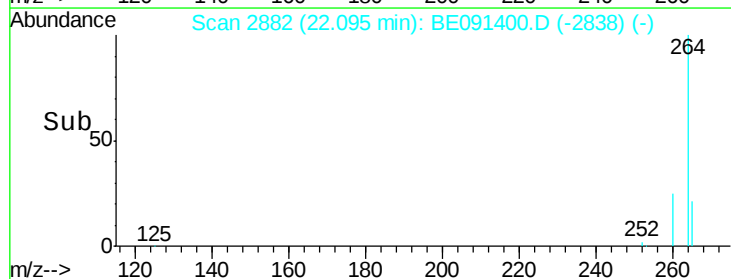
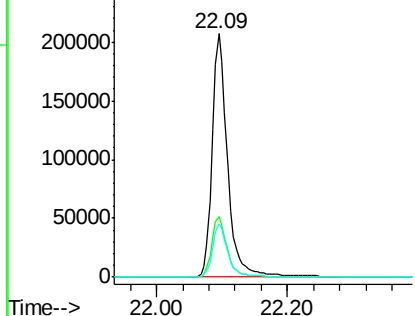


#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. 0.00 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

Tgt Ion:264 Resp: 339743
Ion Ratio Lower Upper
264 100
260 25.1 20.7 31.1
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





#25

Benzo(b)fluoranthene

Concen: 3.23 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

BNA_E

ClientSampleId :

PB88200BSD

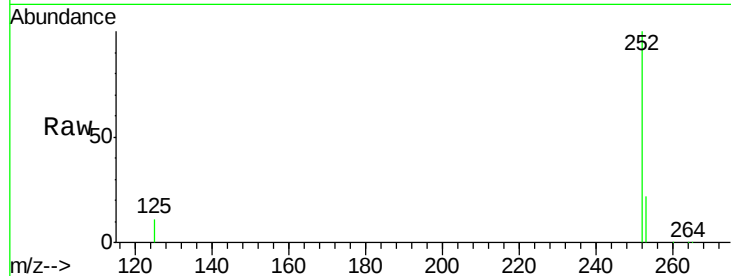
Tot Ion:252 Resp: 268241

Ion Ratio Lower Upper

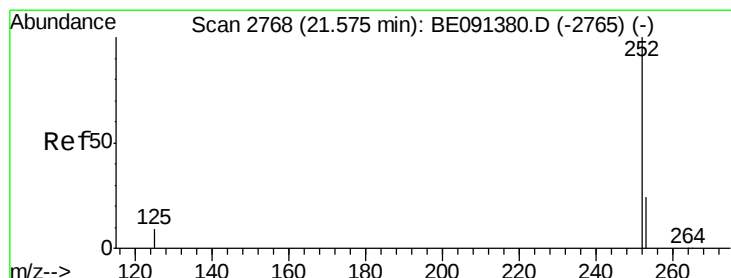
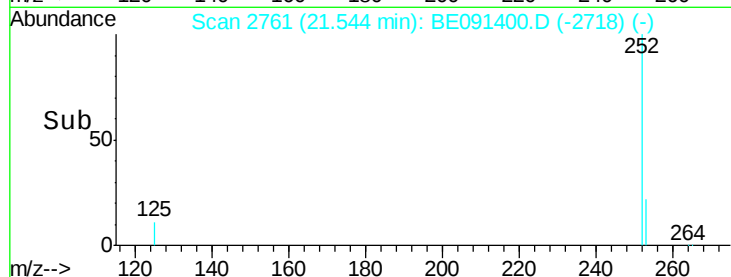
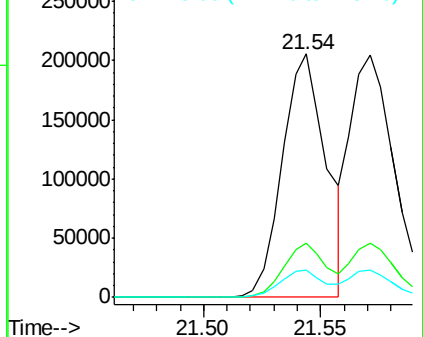
252 100

253 22.4 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: 3.40 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

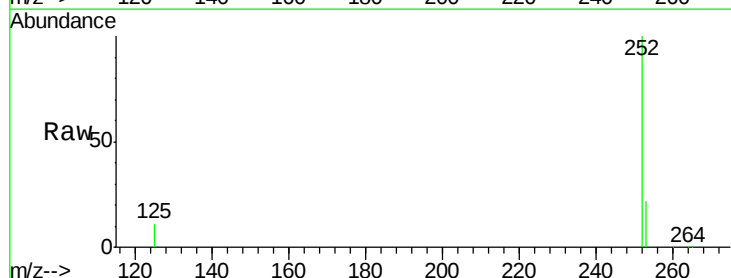
Tgt Ion:252 Resp: 287715

Ion Ratio Lower Upper

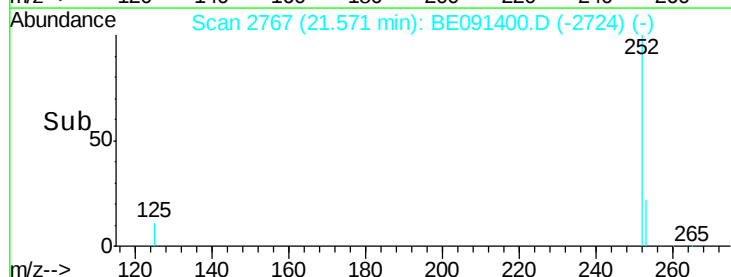
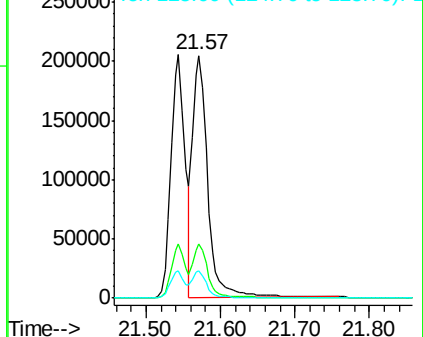
252 100

253 22.2 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

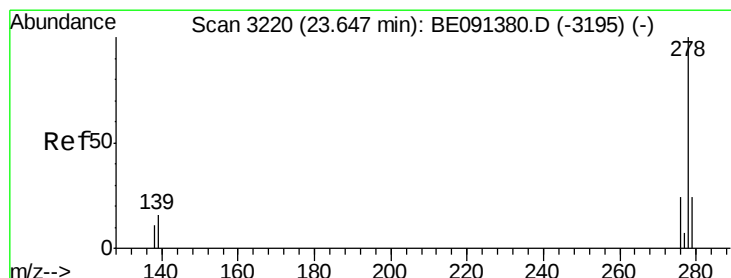
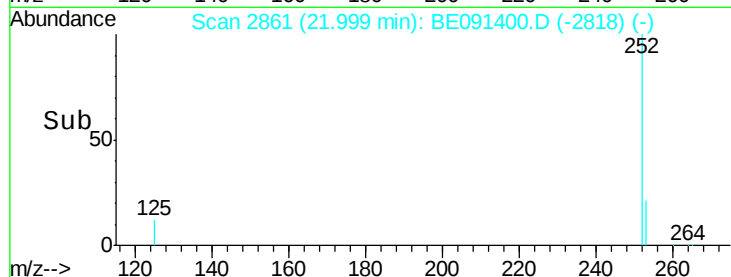
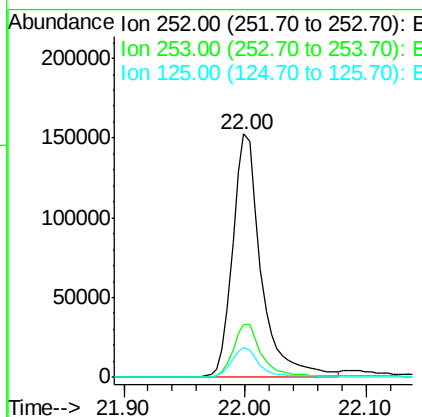
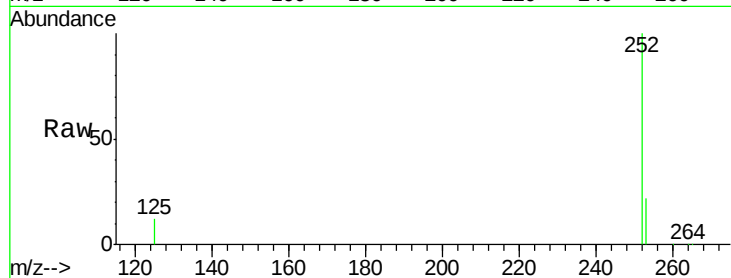




#27
Benzo(a)pyrene
Concen: 3.21 ng
RT: 22.00 min Scan# 2861
Delta R.T. -0.00 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

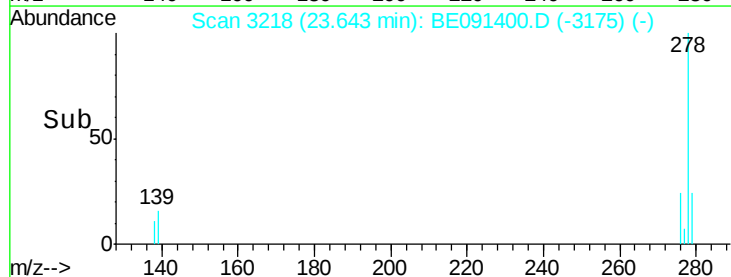
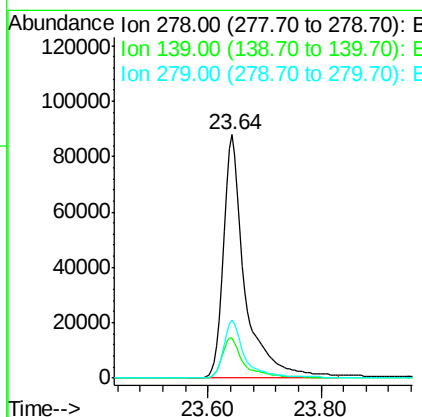
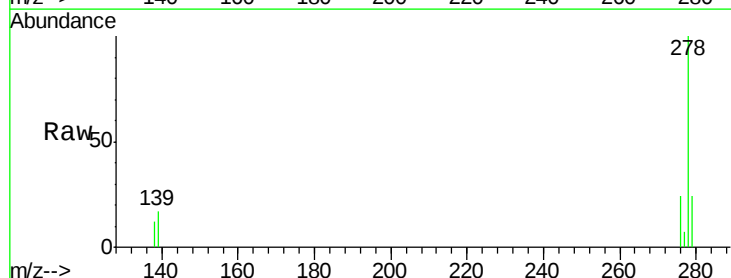
Instrument :
BNA_E
ClientSampleId :
PB88200BSD

Tot Ion:252 Resp: 245792
Ion Ratio Lower Upper
252 100
253 21.6 17.5 26.3
125 12.4 9.4 14.0



#28
Dibenzo(a,h)anthracene
Concen: 3.08 ng
RT: 23.64 min Scan# 3218
Delta R.T. -0.00 min
Lab File: BE091400.D
Acq: 5 Feb 2016 15:14

Tgt Ion:278 Resp: 230415
Ion Ratio Lower Upper
278 100
139 16.6 13.0 19.4
279 23.8 19.2 28.8





#29

Benzo(a,h,i)perylene

Concen: 3.17 ng

RT: 24.24 min Scan# 3349

Delta R.T. -0.00 min

Lab File: BE091400.D

Acq: 5 Feb 2016 15:14

Instrument :

BNA_E

ClientSampleId :

PB88200BSD

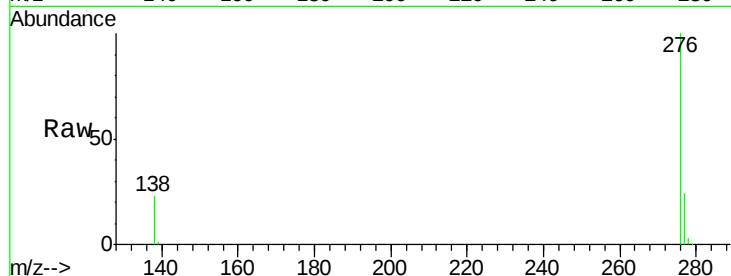
Tot Ion: 276 Resp: 262789

Ion Ratio Lower Upper

276 100

277 23.8 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

