

Data Path : Z:\HPCHEM1\BNA_E\Data\BE020516\
 Data File : BE091402.D
 Acq On : 5 Feb 2016 16:29
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Feb 05 17:43:27 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

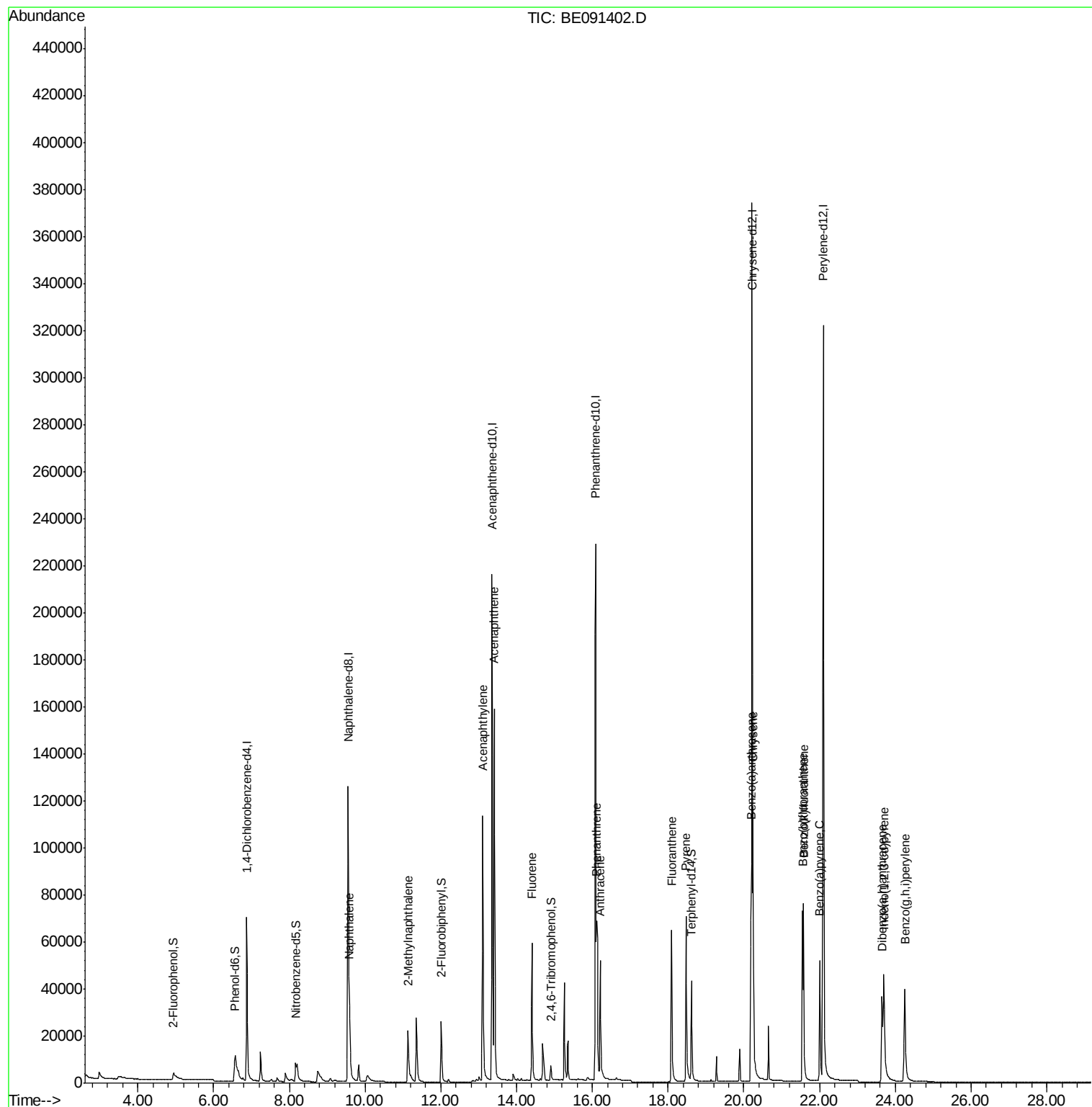
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	40576	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	197397	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	128529	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	323452	5.00	ng	0.00
18) Chrysene-d12	20.22	240	391198	5.00	ng	0.00
24) Perylene-d12	22.09	264	374504	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.95	112	7295	0.96	ng	0.00
3) Phenol-d6	6.56	99	11548	1.03	ng	0.00
5) Nitrobenzene-d5	8.17	82	9998	1.00	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	3780	0.91	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	31419	0.94	ng	0.00
20) Terphenyl-d14	18.62	244	56551	0.98	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.59	128	41117	0.92	ng	99
7) 2-Methylnaphthalene	11.13	142	23554	0.96	ng	97
11) Acenaphthylene	13.10	152	178498	0.95	ng	100
12) Acenaphthene	13.42	154	31705	0.90	ng	98
13) Fluorene	14.40	166	42657	0.94	ng	99
15) Phenanthrene	16.12	178	78133	0.92	ng	100
16) Anthracene	16.21	178	69062	0.97	ng	99
17) Fluoranthene	18.10	202	77187	0.96	ng	99
19) Pyrene	18.48	202	81119	0.96	ng	100
21) Benzo(a)anthracene	20.19	228	69294	0.94	ng	98
22) Chrysene	20.25	228	95793	0.93	ng	98
23) Indeno(1,2,3-cd)pyrene	23.70	276	71934	0.94	ng	99
25) Benzo(b)fluoranthene	21.55	252	76889	0.95	ng	99
26) Benzo(k)fluoranthene	21.58	252	83987	0.91	ng	98
27) Benzo(a)pyrene	22.00	252	67943	0.93	ng	100
28) Dibenzo(a,h)anthracene	23.65	278	63485	0.96	ng	99
29) Benzo(g,h,i)perylene	24.25	276	76378	0.94	ng	98

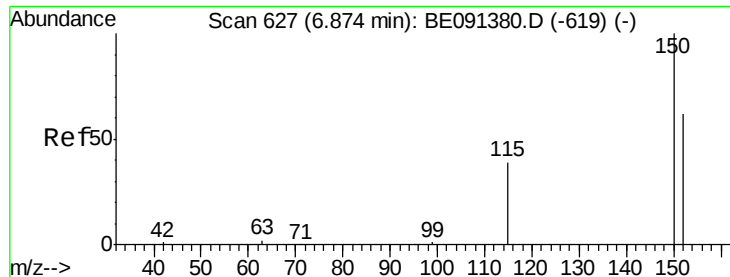
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.88 min Scan# 628

Delta R.T. 0.01 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

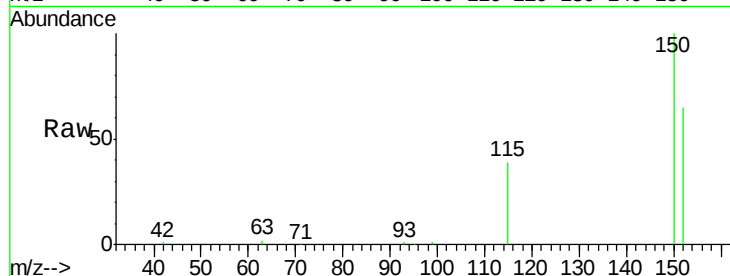
Tgt Ion:152 Resp: 40576

Ion Ratio Lower Upper

152 100

150 153.5 128.9 193.3

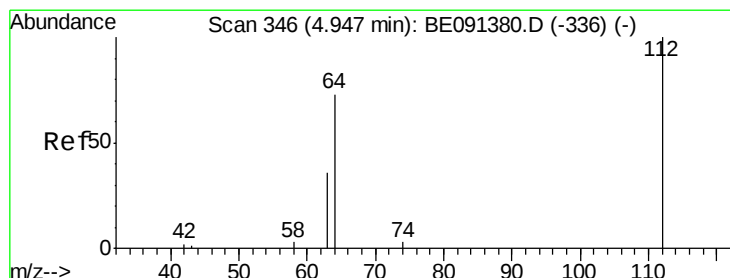
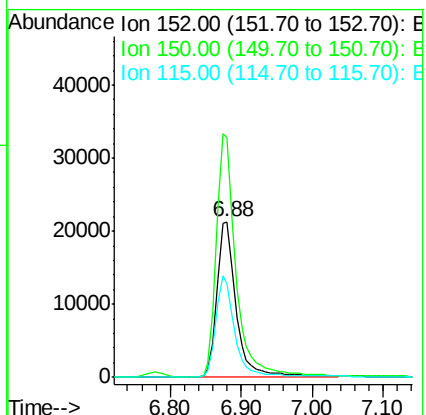
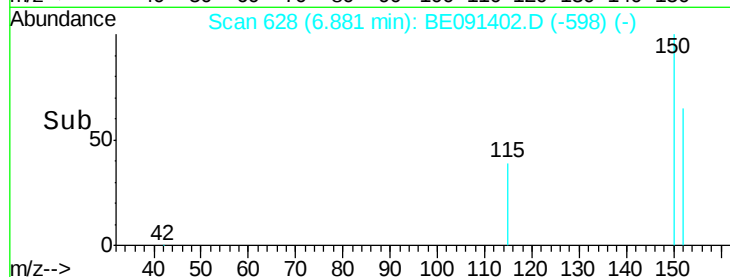
115 60.0 50.9 76.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

2-Fluorophenol

Concen: 0.96 ng

RT: 4.95 min Scan# 346

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

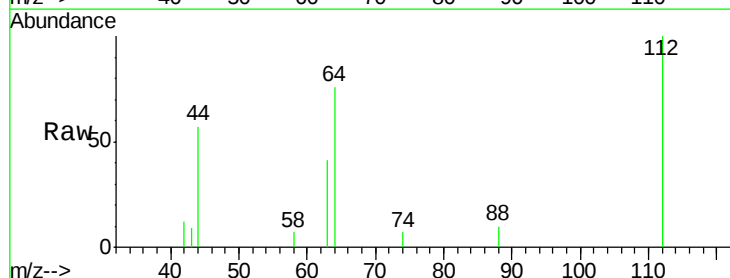
Tgt Ion:112 Resp: 7295

Ion Ratio Lower Upper

112 100

64 74.1 60.5 90.7

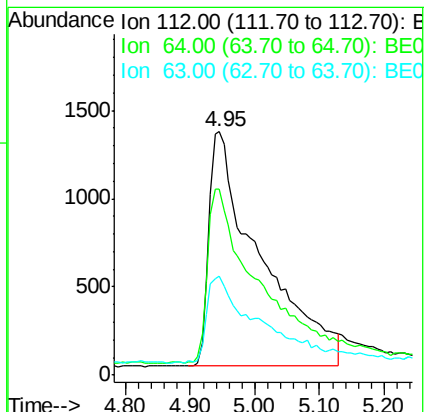
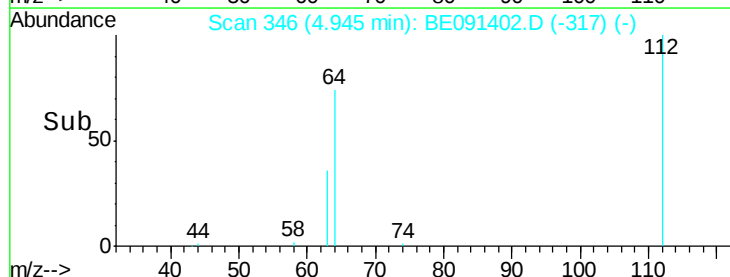
63 36.8 29.8 44.8

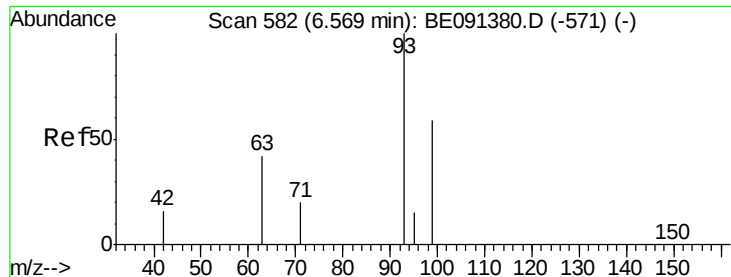


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.03 ng

RT: 6.56 min Scan# 581

Delta R.T. -0.01 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

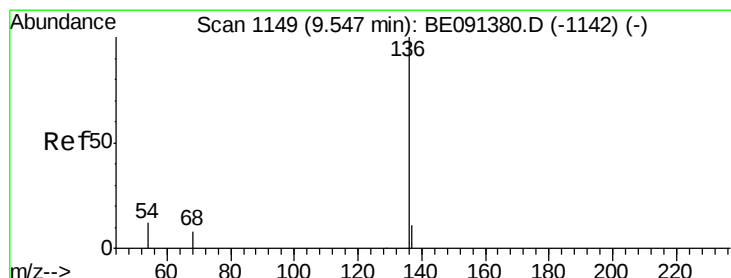
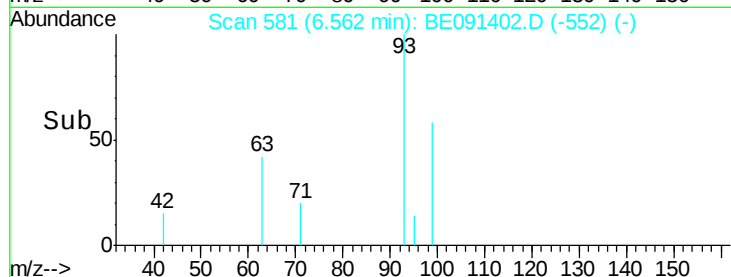
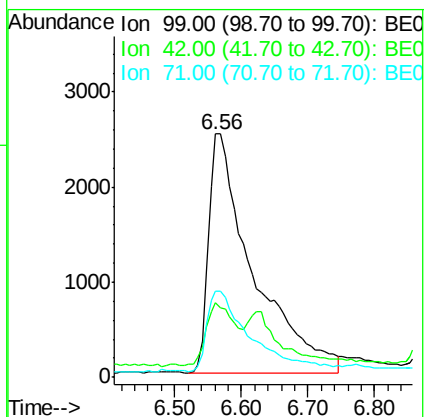
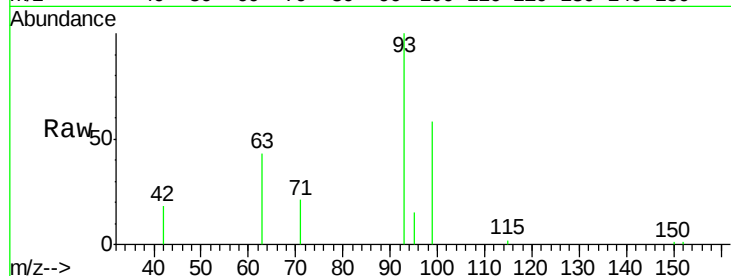
Tgt Ion: 99 Resp: 11548

Ion Ratio Lower Upper

99 100

42 16.8 13.3 19.9

71 33.4 25.6 38.4



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Tgt Ion: 136 Resp: 197397

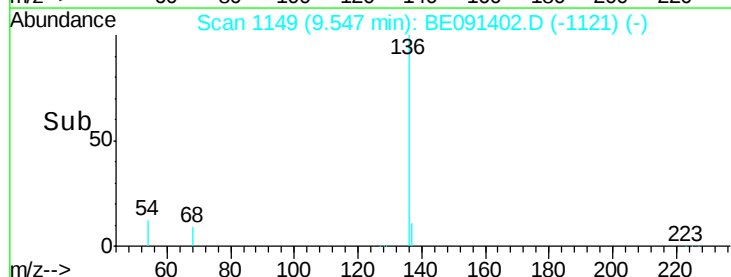
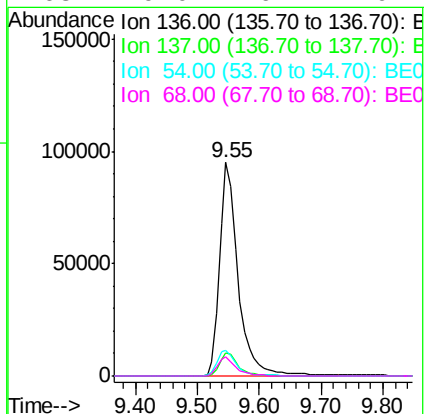
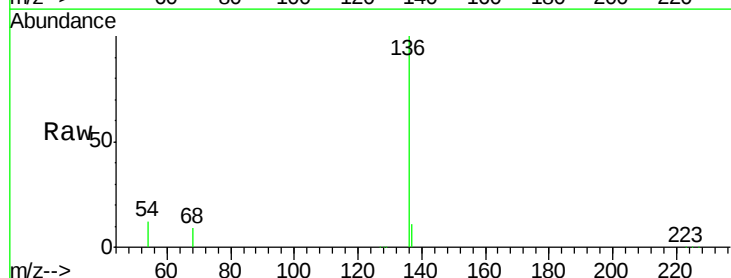
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 12.3 9.3 13.9

68 9.0 6.7 10.1





#5

Nitrobenzene-d5

Concen: 1.00 ng

RT: 8.17 min Scan# 862

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

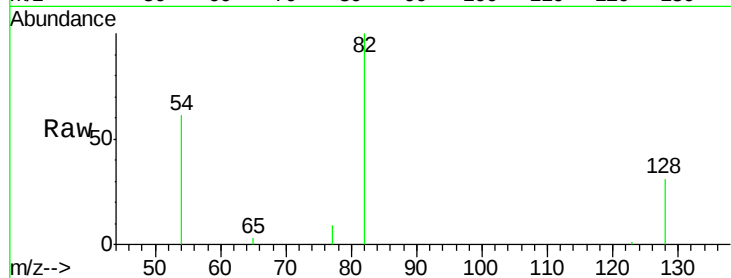
Tgt Ion: 82 Resp: 9998

Ion Ratio Lower Upper

82 100

128 31.4 25.0 37.4

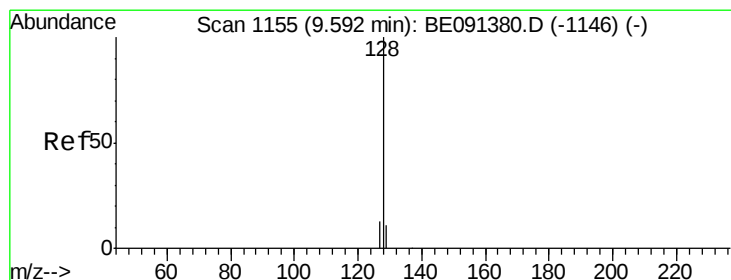
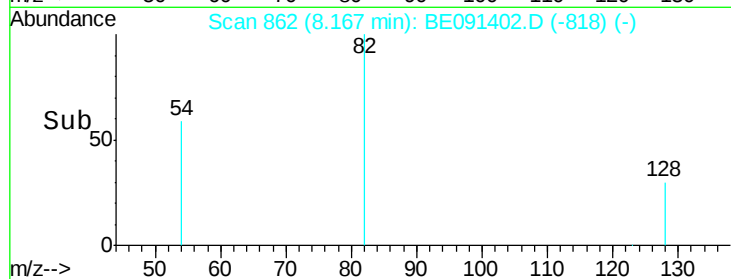
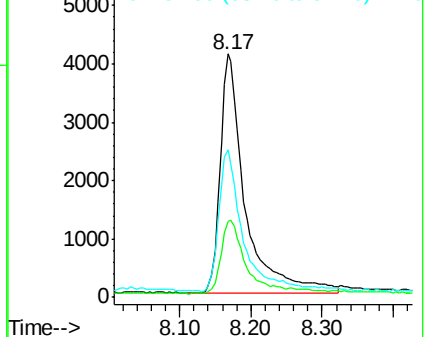
54 60.7 48.1 72.1



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: 0.92 ng

RT: 9.59 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

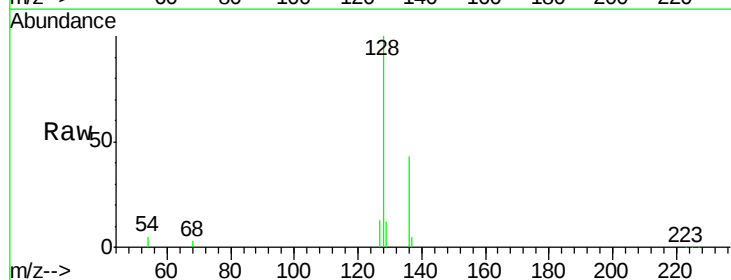
Tgt Ion: 128 Resp: 41117

Ion Ratio Lower Upper

128 100

129 11.6 9.1 13.7

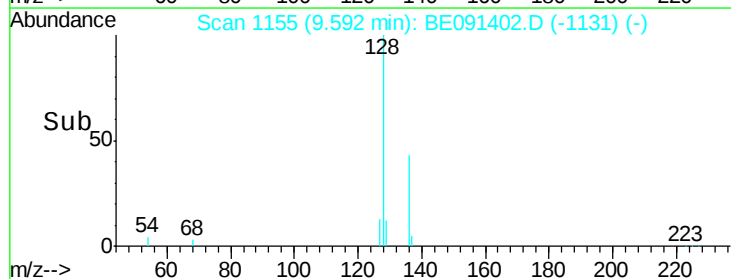
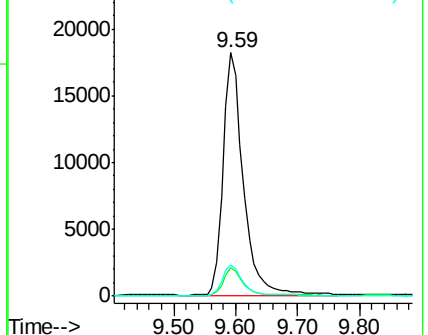
127 12.8 10.5 15.7



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: 0.96 ng

RT: 11.13 min Scan# 1410

Delta R.T. 0.01 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

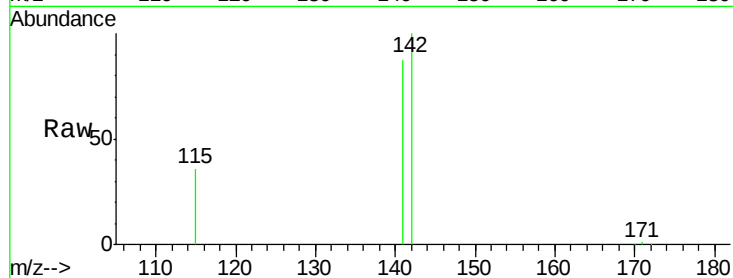
Tgt Ion:142 Resp: 23554

Ion Ratio Lower Upper

142 100

141 87.4 72.3 108.5

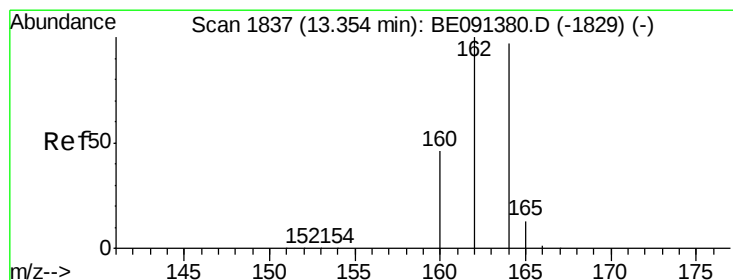
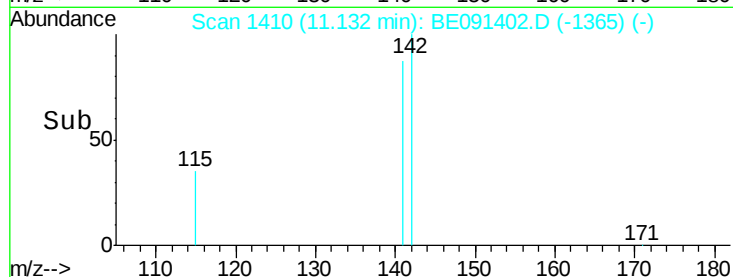
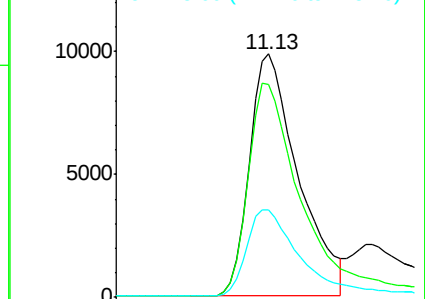
115 36.0 30.5 45.7



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: BE091402.D

Acq: 5 Feb 2016 16:29

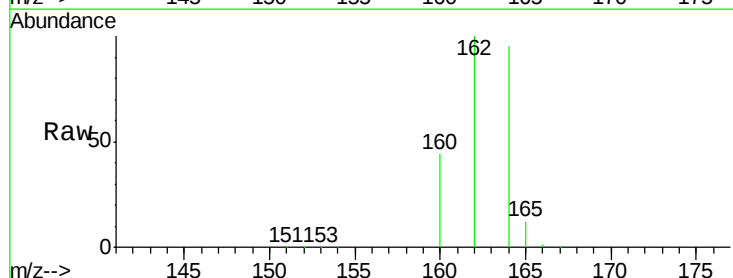
Tgt Ion:164 Resp: 128529

Ion Ratio Lower Upper

164 100

162 105.0 82.2 123.2

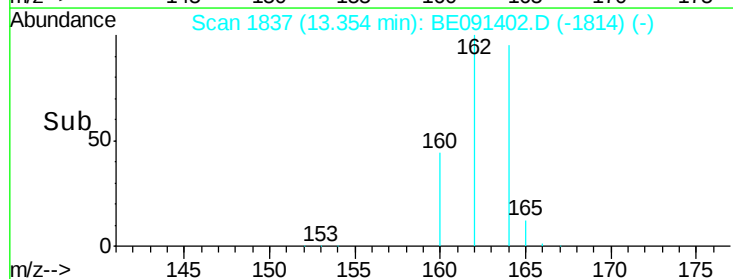
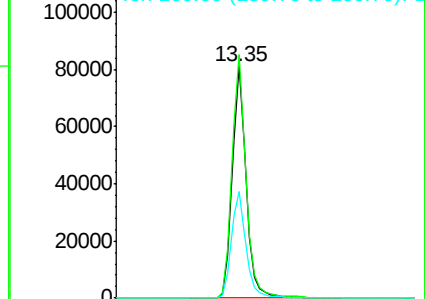
160 46.0 37.8 56.8



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: 0.91 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

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ClientSampleId :

SSTDCCC001EC

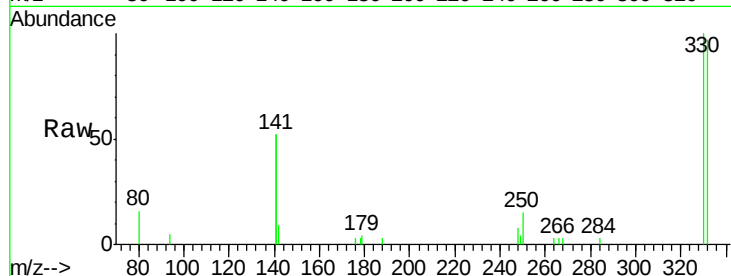
Tgt Ion:330 Resp: 3780

Ion Ratio Lower Upper

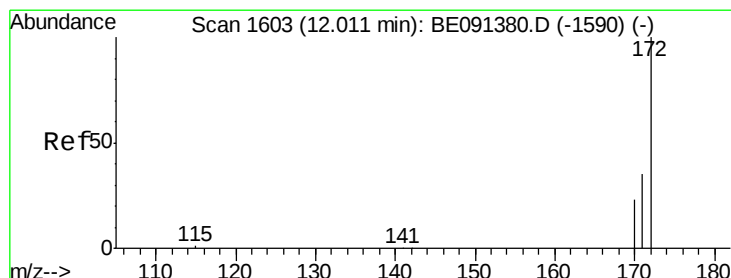
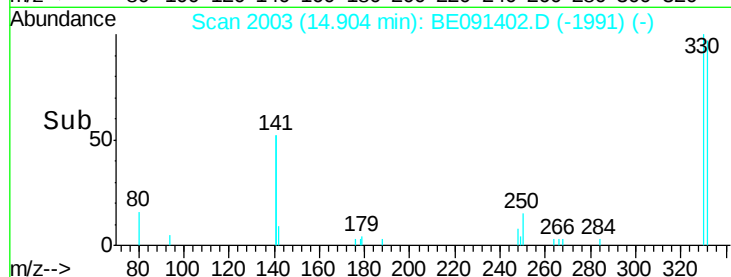
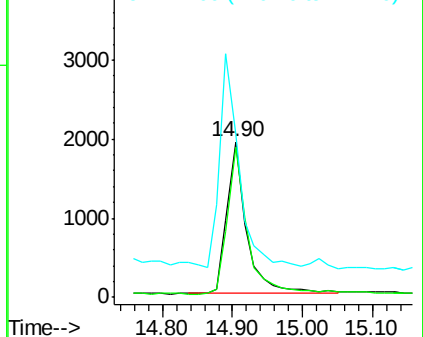
330 100

332 97.2 78.8 118.2

141 133.5 105.1 157.7



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: 0.94 ng

RT: 12.01 min Scan# 1603

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

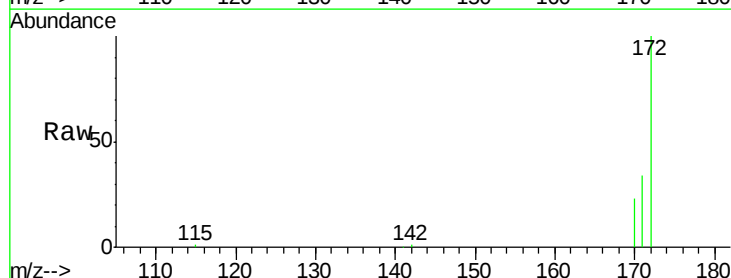
Tgt Ion:172 Resp: 31419

Ion Ratio Lower Upper

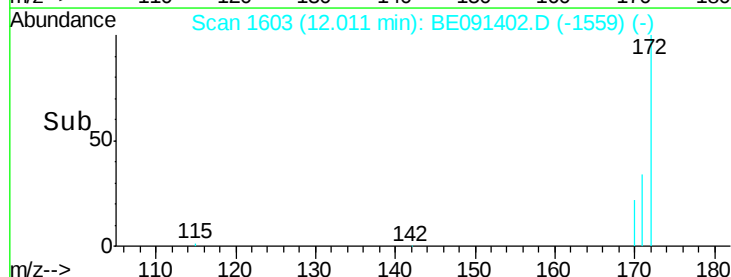
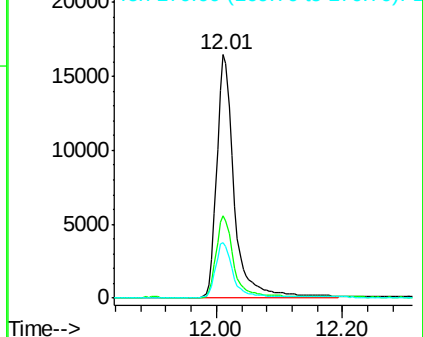
172 100

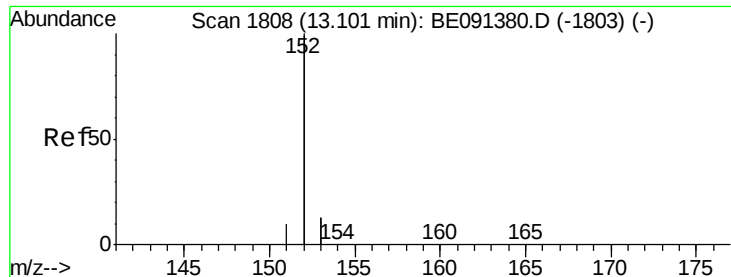
171 33.9 27.8 41.8

170 22.6 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: 0.95 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

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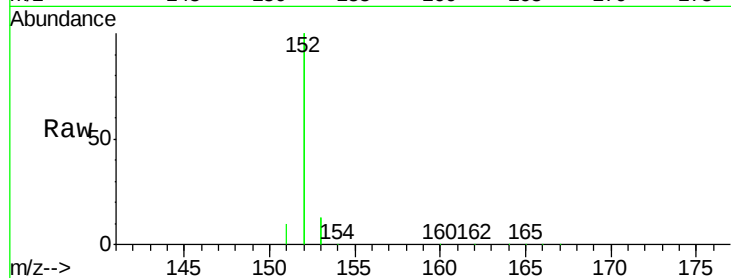
Tgt Ion:152 Resp: 178498

Ion Ratio Lower Upper

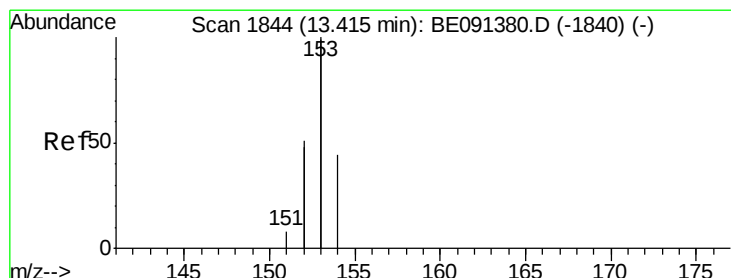
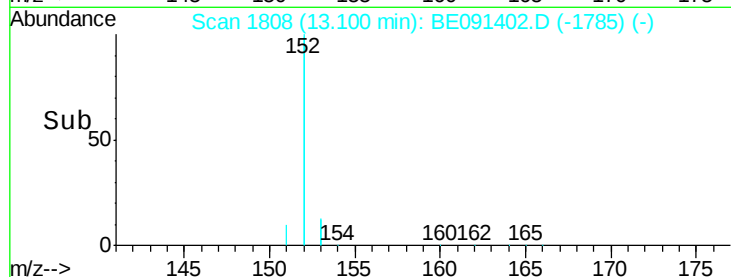
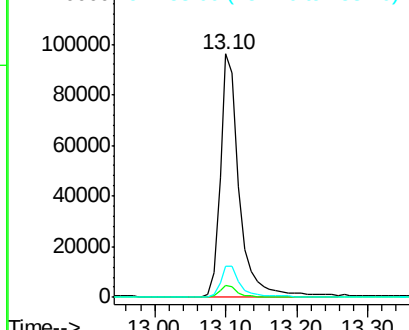
152 100

151 4.8 3.8 5.8

153 13.0 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#12

Acenaphthene

Concen: 0.90 ng

RT: 13.42 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

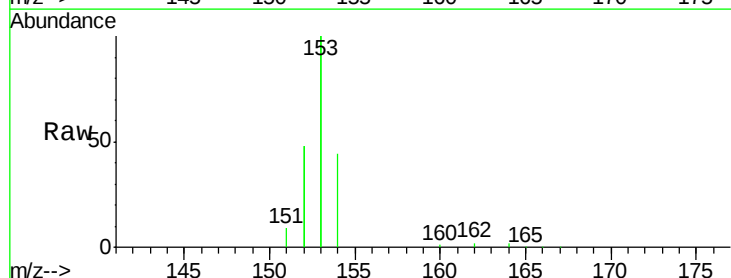
Tgt Ion:154 Resp: 31705

Ion Ratio Lower Upper

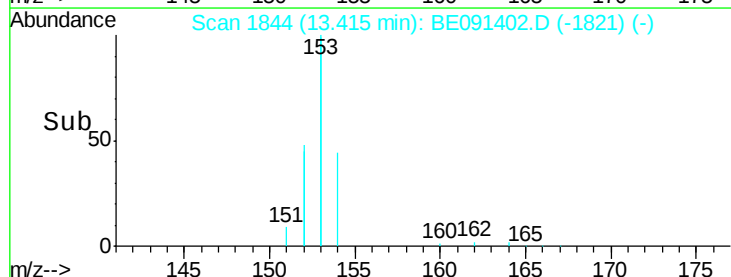
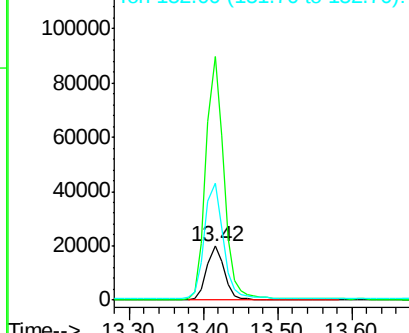
154 100

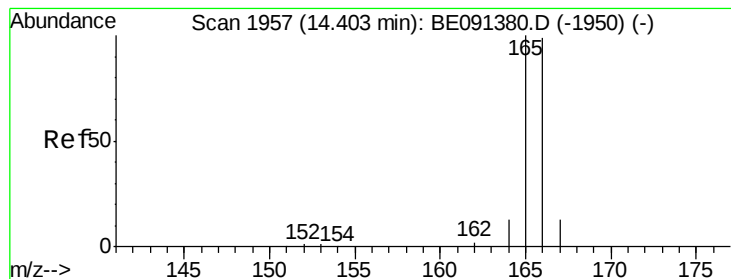
153 461.6 369.8 554.8

152 232.4 194.4 291.6



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





#13

Fluorene

Concen: 0.94 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

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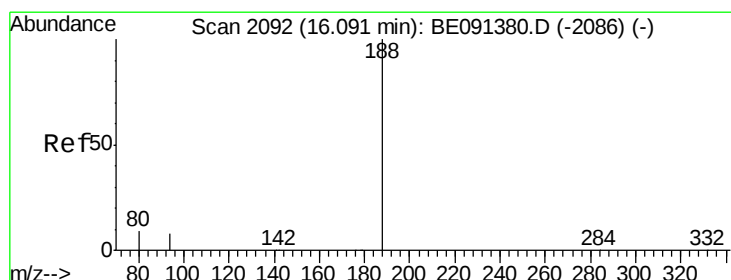
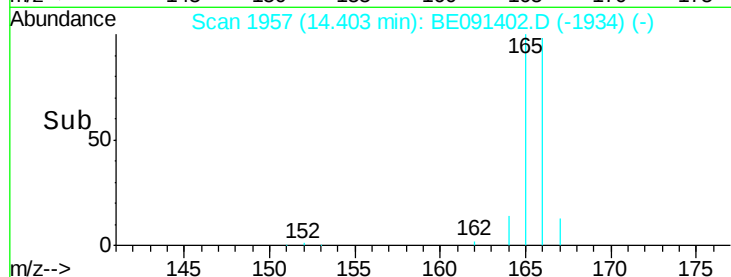
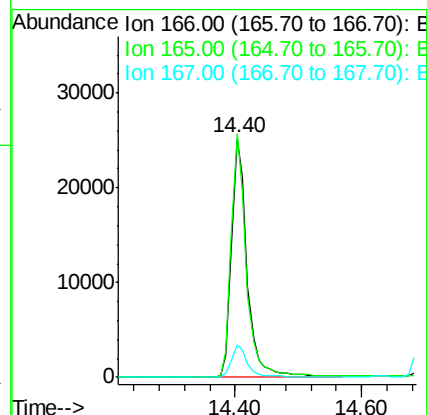
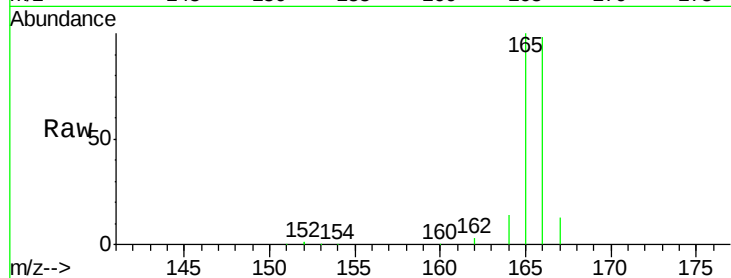
Tgt Ion:166 Resp: 42657

Ion Ratio Lower Upper

166 100

165 99.6 79.3 118.9

167 13.5 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

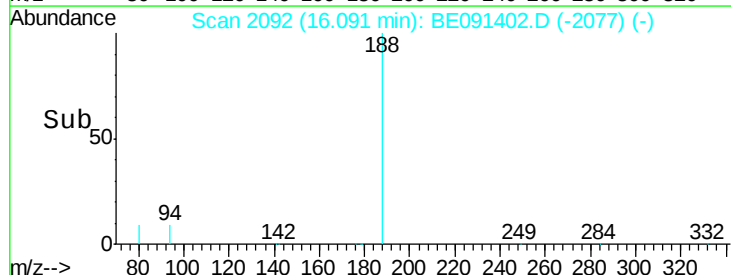
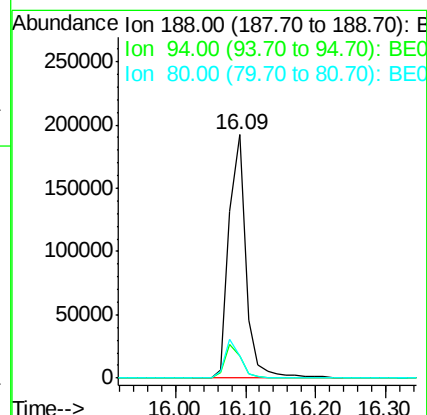
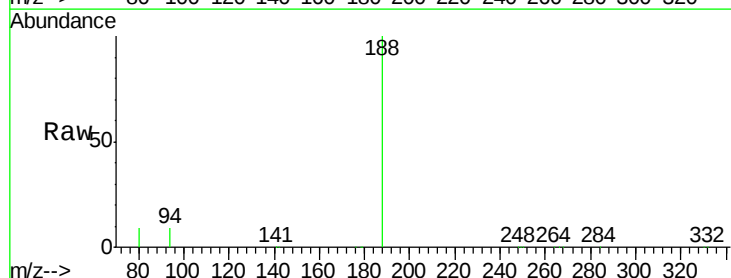
Tgt Ion:188 Resp: 323452

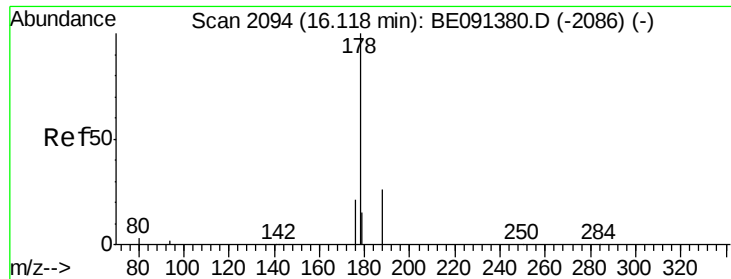
Ion Ratio Lower Upper

188 100

94 9.0 6.6 10.0

80 9.3 7.0 10.6

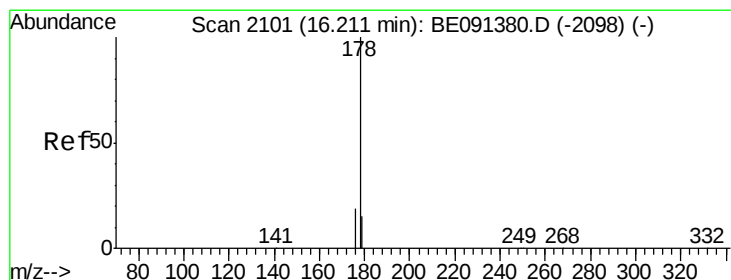
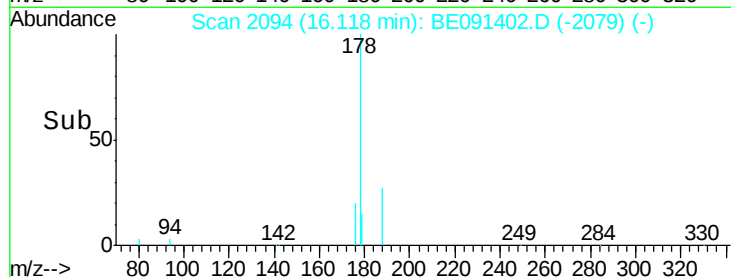
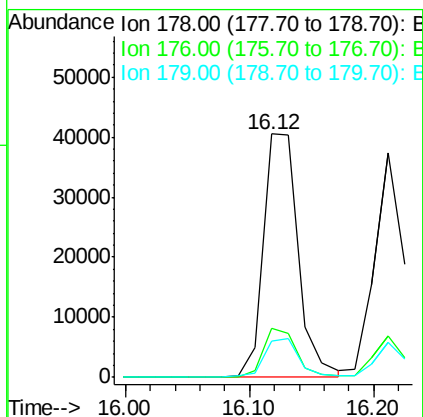
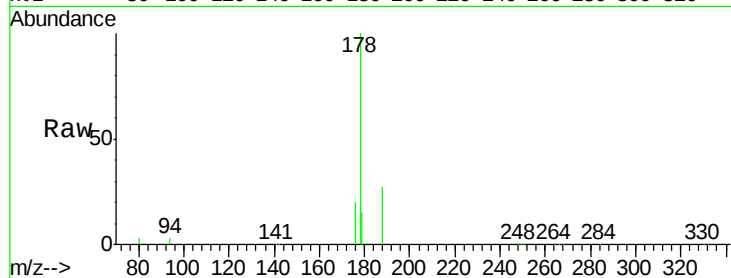




#15
Phenanthrene
Concen: 0.92 ng
RT: 16.12 min Scan# 2094
Delta R.T. -0.00 min
Lab File: BE091402.D
Acq: 5 Feb 2016 16:29

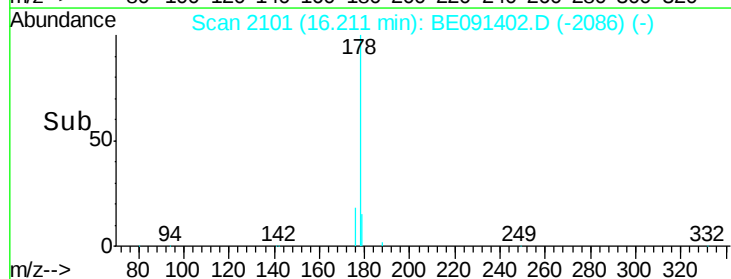
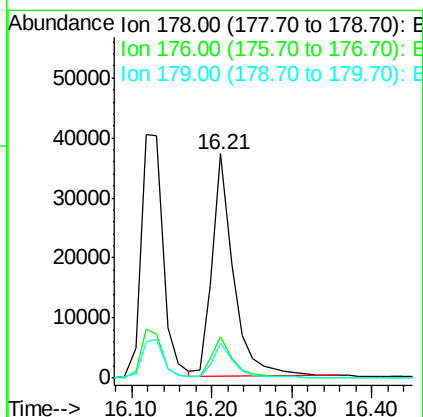
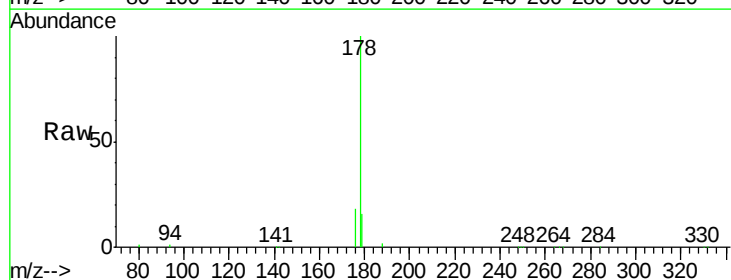
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

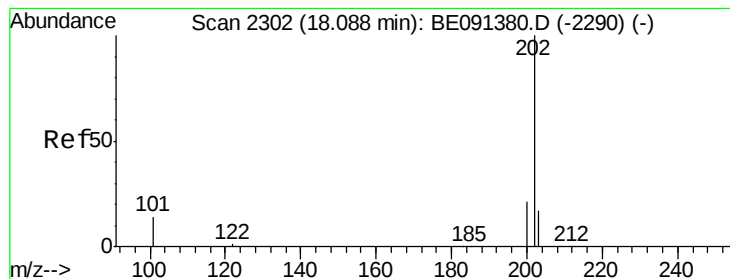
Tgt Ion:178 Resp: 78133
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.7 12.7 19.1



#16
Anthracene
Concen: 0.97 ng
RT: 16.21 min Scan# 2101
Delta R.T. -0.00 min
Lab File: BE091402.D
Acq: 5 Feb 2016 16:29

Tgt Ion:178 Resp: 69062
Ion Ratio Lower Upper
178 100
176 18.7 14.8 22.2
179 15.4 12.1 18.1





#17

Fluoranthene

Concen: 0.96 ng

RT: 18.10 min Scan# 2303

Delta R.T. 0.01 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

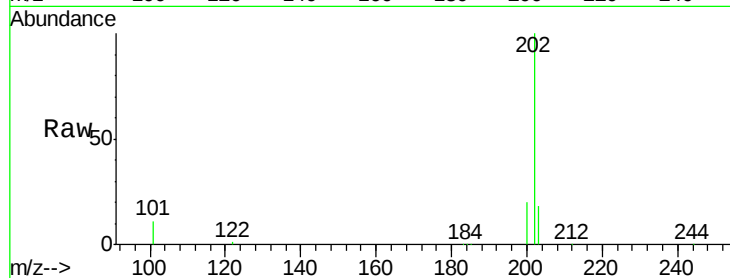
Tgt Ion:202 Resp: 77187

Ion Ratio Lower Upper

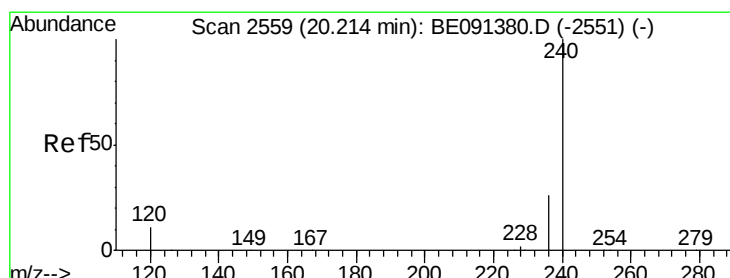
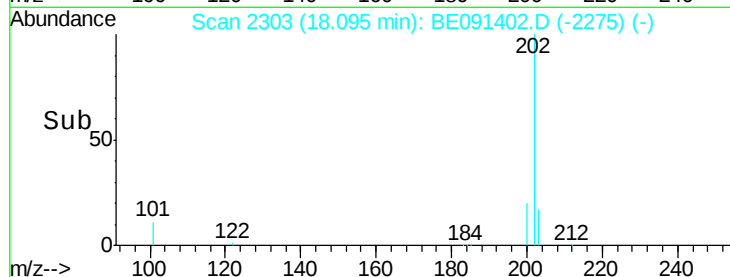
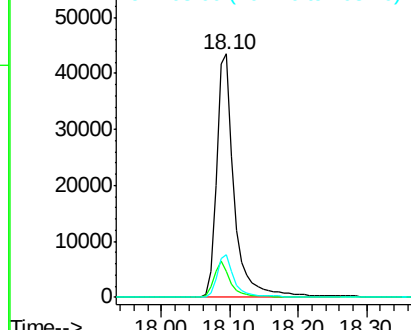
202 100

101 14.1 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: 20.22 min Scan# 2560

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

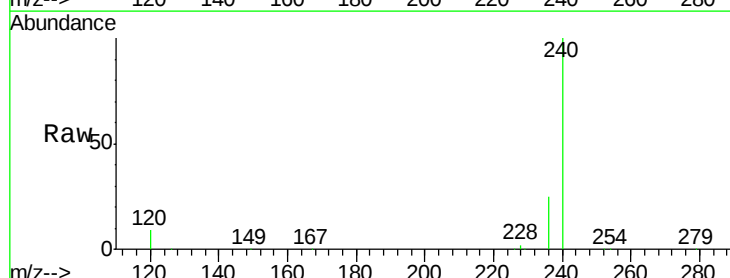
Tgt Ion:240 Resp: 391198

Ion Ratio Lower Upper

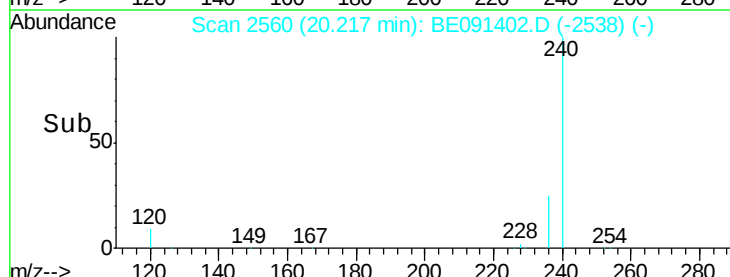
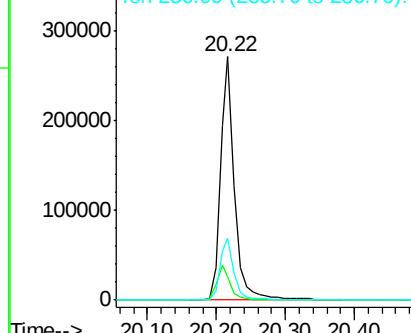
240 100

120 9.4 8.9 13.3

236 25.2 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

Pyrene

Concen: 0.96 ng

RT: 18.48 min Scan# 2354

Delta R.T. 0.01 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

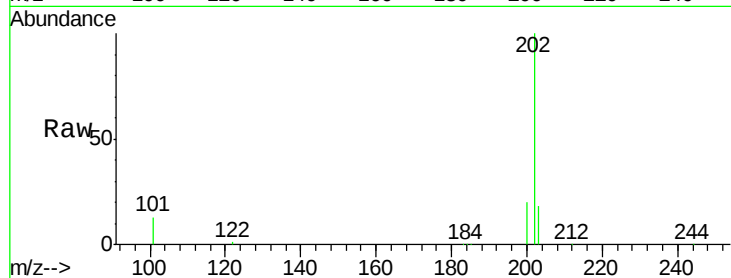
Tgt Ion:202 Resp: 81119

Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

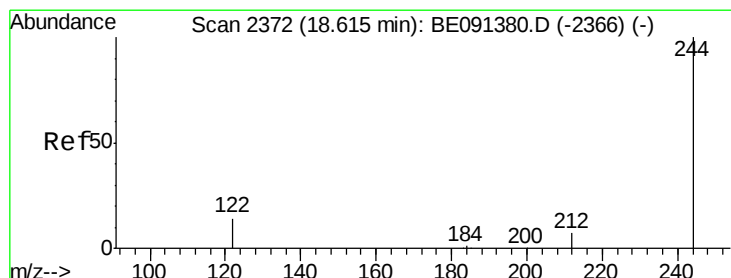
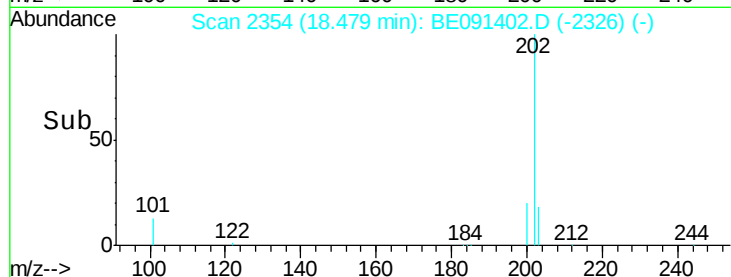
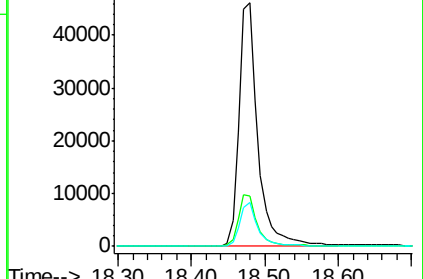
203 17.3 14.0 21.0



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: 0.98 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.01 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

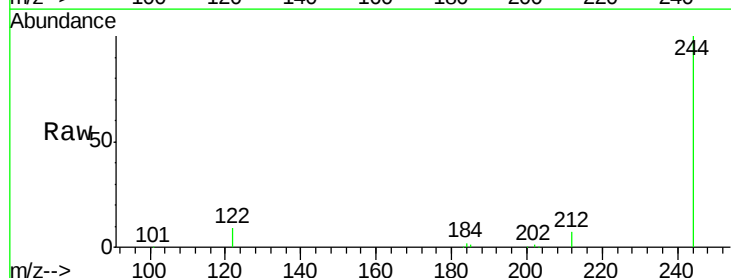
Tgt Ion:244 Resp: 56551

Ion Ratio Lower Upper

244 100

212 7.2 6.1 9.1

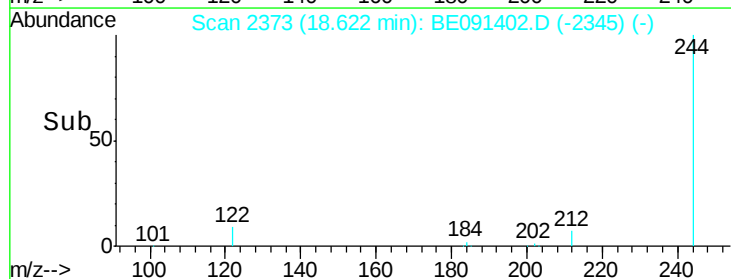
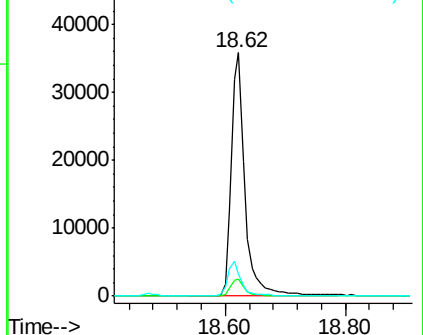
122 8.9 11.0 16.6#

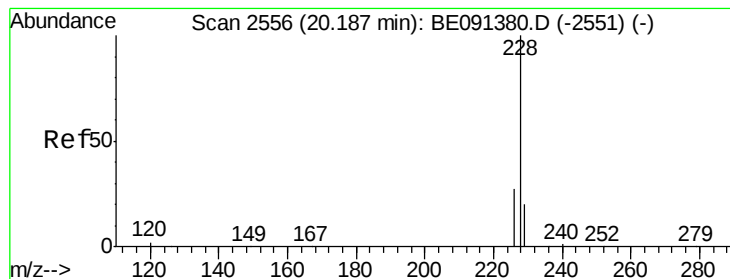


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.94 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

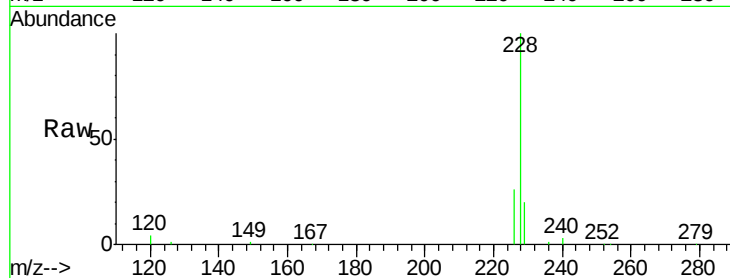
Tgt Ion:228 Resp: 69294

Ion Ratio Lower Upper

228 100

226 25.7 21.7 32.5

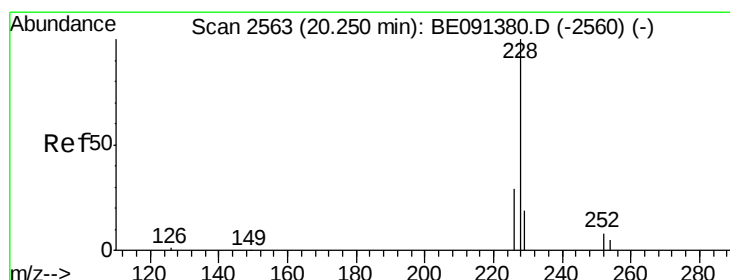
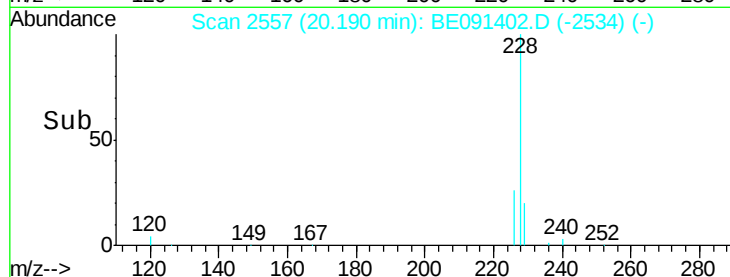
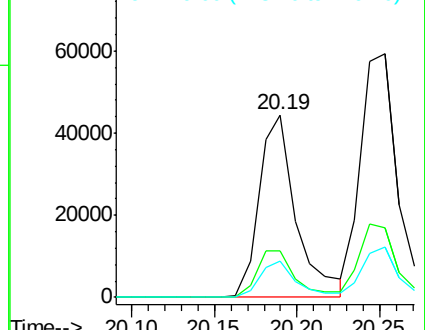
229 19.8 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#22

Chrysene

Concen: 0.93 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

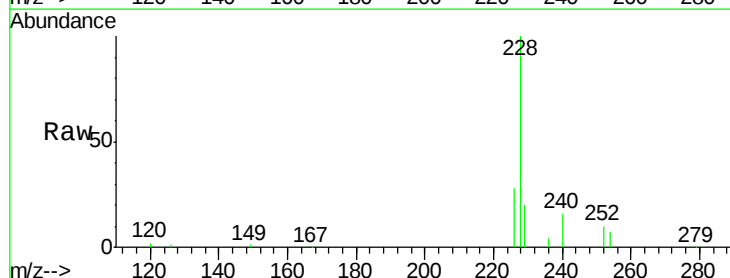
Tgt Ion:228 Resp: 95793

Ion Ratio Lower Upper

228 100

226 28.4 23.4 35.0

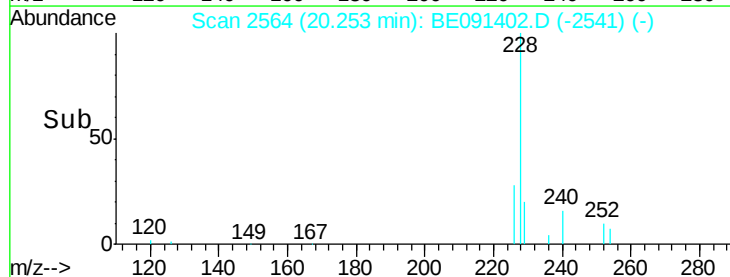
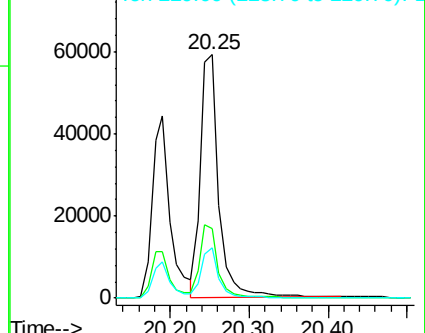
229 20.4 15.7 23.5

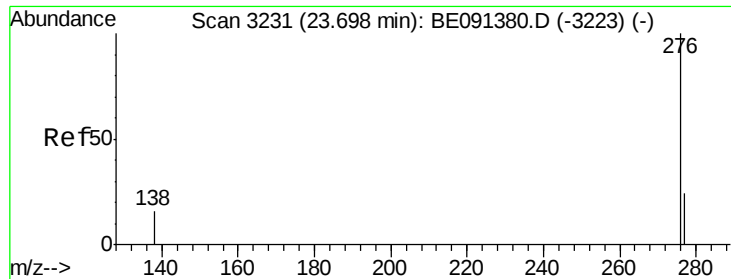


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.94 ng

RT: 23.70 min Scan# 3232

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

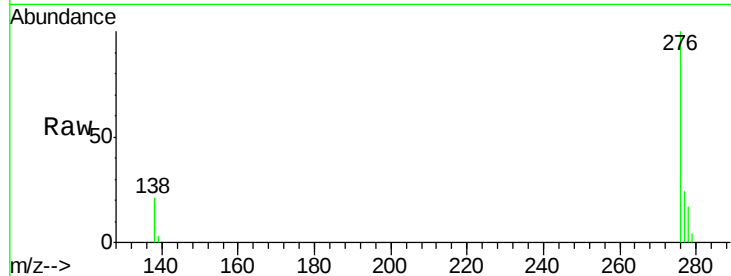
Tgt Ion:276 Resp: 71934

Ion Ratio Lower Upper

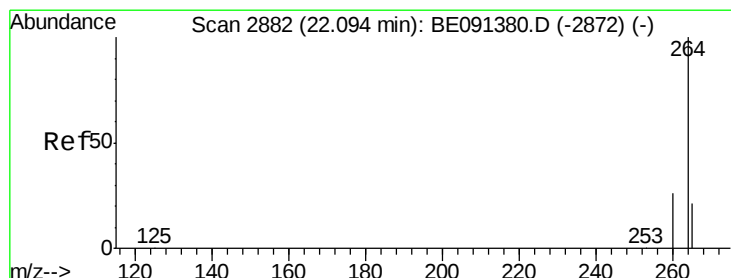
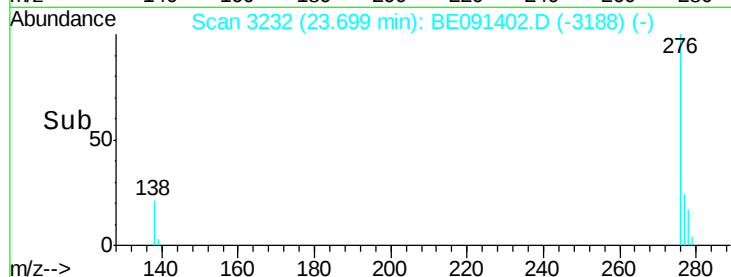
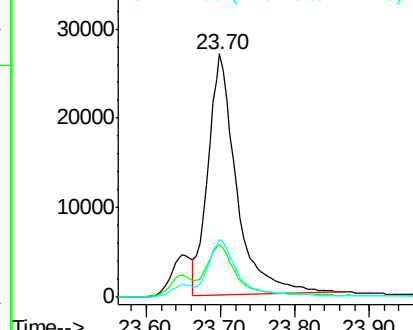
276 100

138 21.2 16.6 25.0

277 24.3 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# 2883

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

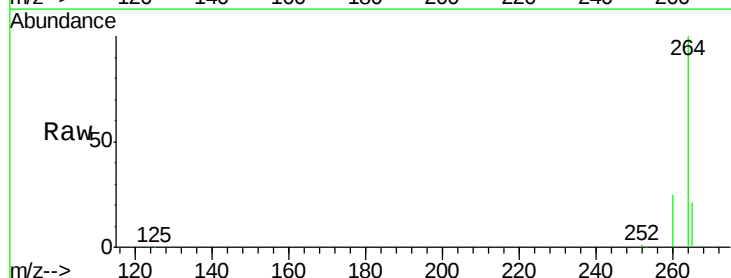
Tgt Ion:264 Resp: 374504

Ion Ratio Lower Upper

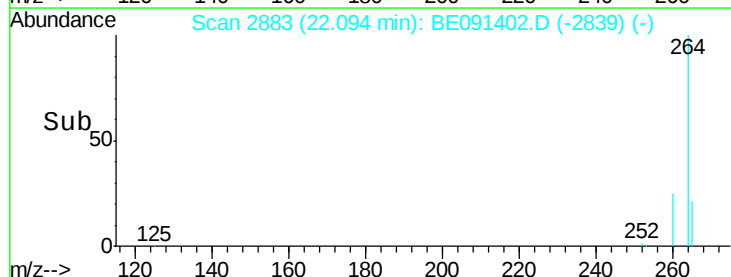
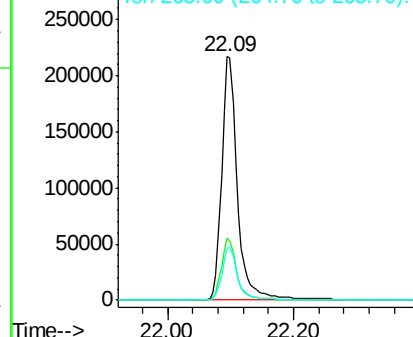
264 100

260 25.5 20.7 31.1

265 21.3 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

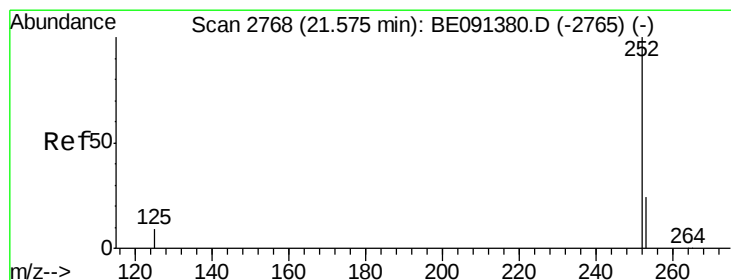
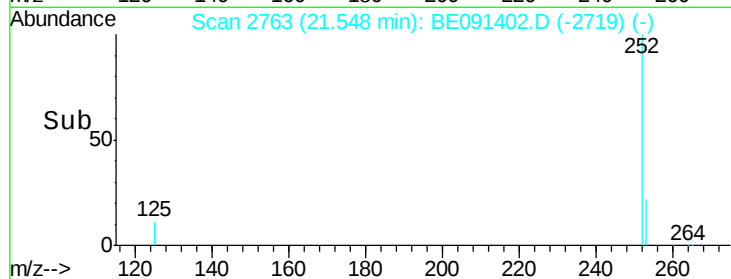
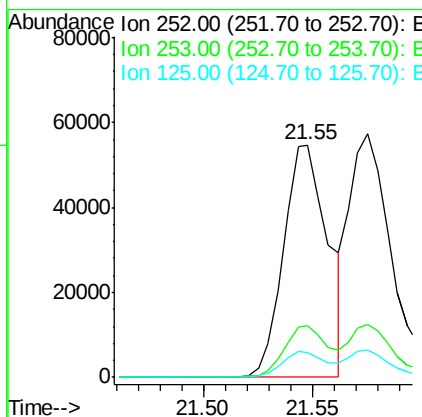
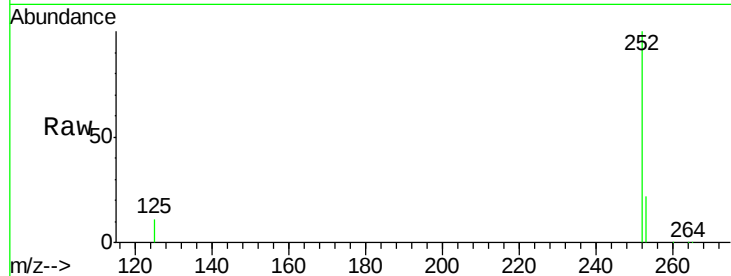




#25
Benzo(b)fluoranthene
Concen: 0.95 ng
RT: 21.55 min Scan# 2763
Delta R.T. 0.00 min
Lab File: BE091402.D
Acq: 5 Feb 2016 16:29

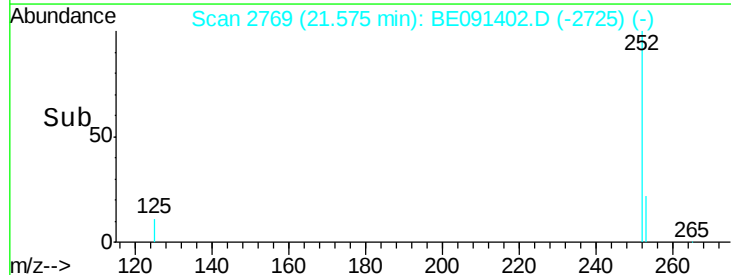
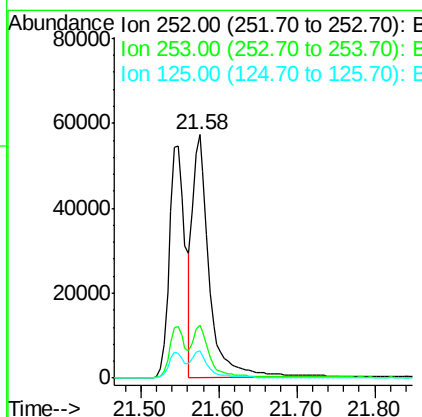
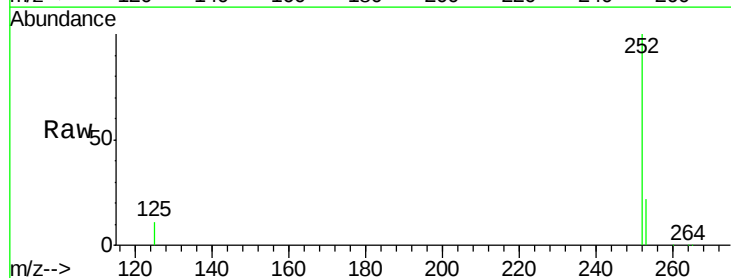
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion:252 Resp: 76889
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 10.9 8.3 12.5



#26
Benzo(k)fluoranthene
Concen: 0.91 ng
RT: 21.58 min Scan# 2769
Delta R.T. 0.00 min
Lab File: BE091402.D
Acq: 5 Feb 2016 16:29

Tgt Ion:252 Resp: 83987
Ion Ratio Lower Upper
252 100
253 21.9 18.1 27.1
125 11.1 8.2 12.4





#27

Benzo(a)pyrene

Concen: 0.93 ng

RT: 22.00 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

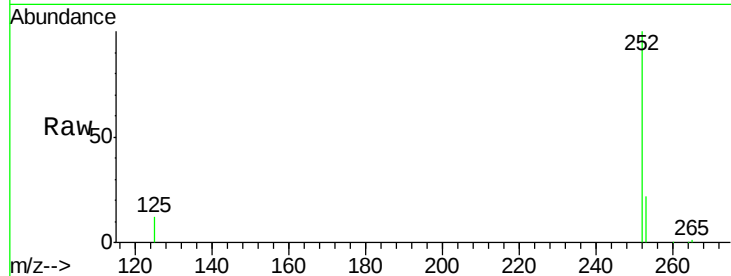
Tgt Ion:252 Resp: 67943

Ion Ratio Lower Upper

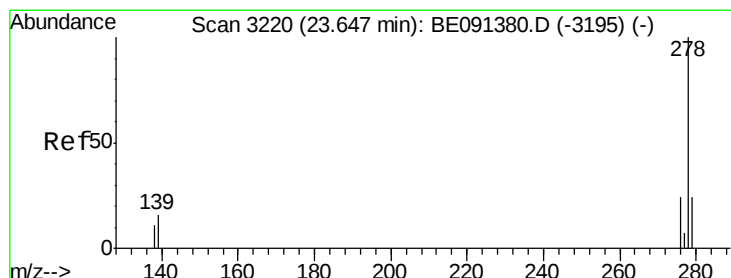
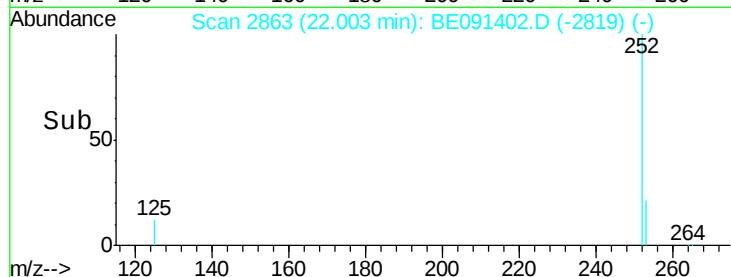
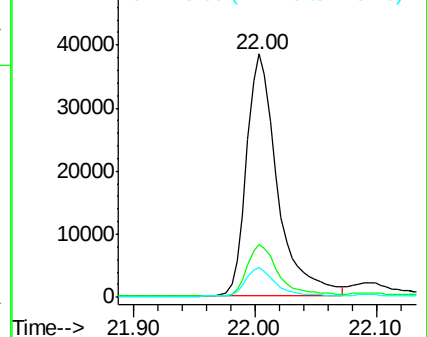
252 100

253 21.9 17.5 26.3

125 12.1 9.4 14.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 0.96 ng

RT: 23.65 min Scan# 3221

Delta R.T. 0.00 min

Lab File: BE091402.D

Acq: 5 Feb 2016 16:29

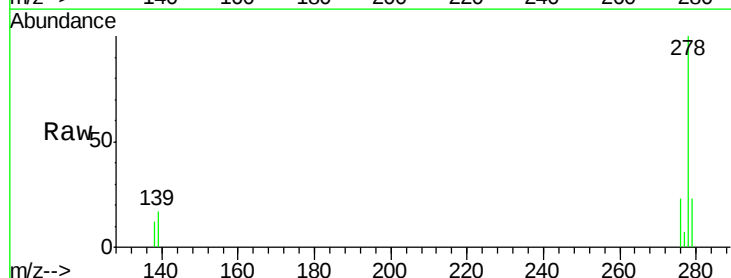
Tgt Ion:278 Resp: 63485

Ion Ratio Lower Upper

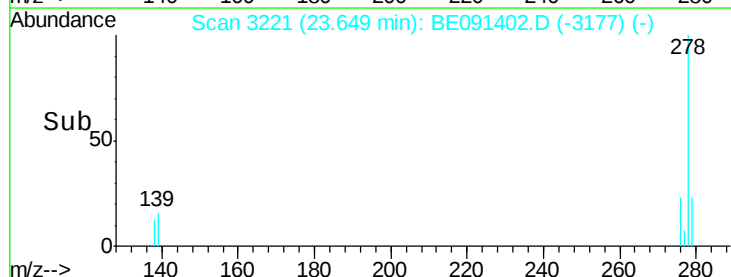
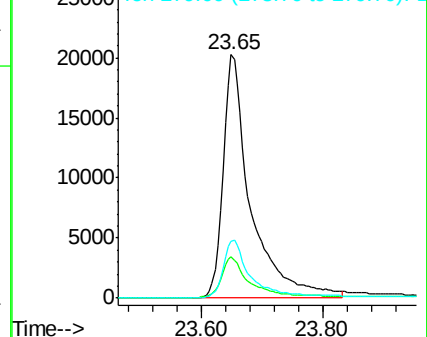
278 100

139 16.8 13.0 19.4

279 23.4 19.2 28.8



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#29

Benzo(g,h,i)perylene

Concen: 0.94 ng

RT: 24.25 min Scan# 3353

Delta R.T. 0.01 min

Lab File: BE091402.D

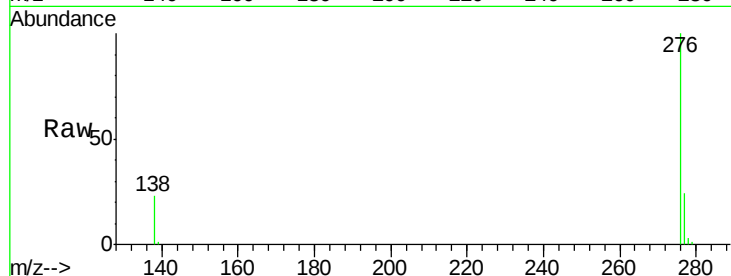
Acq: 5 Feb 2016 16:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 76378

Ion Ratio Lower Upper

276 100

277 24.0 18.9 28.3

138 22.8 17.0 25.6

