

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
 Data File : BE091411.D
 Acq On : 17 Feb 2016 19:20
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Feb 18 00:00:41 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	6.86	152	43942	5.00	ng	-0.01
4) Naphthalene-d8	9.53	136	218633	5.00	ng	-0.01
8) Acenaphthene-d10	13.34	164	138868	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	331652	5.00	ng	-0.01
18) Chrysene-d12	20.22	240	393856	5.00	ng	0.00
24) Perylene-d12	22.09	264	411540	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.91	112	9778	1.13	ng	-0.04
3) Phenol-d6	6.54	99	15154	1.21	ng	-0.03
5) Nitrobenzene-d5	8.14	82	14535	1.23	ng	-0.03
9) 2,4,6-Tribromophenol	14.89	330	5990	1.18	ng	-0.01
10) 2-Fluorobiphenyl	11.99	172	35001	0.97	ng	-0.02
20) Terphenyl-d14	18.61	244	63454	1.09	ng	0.00

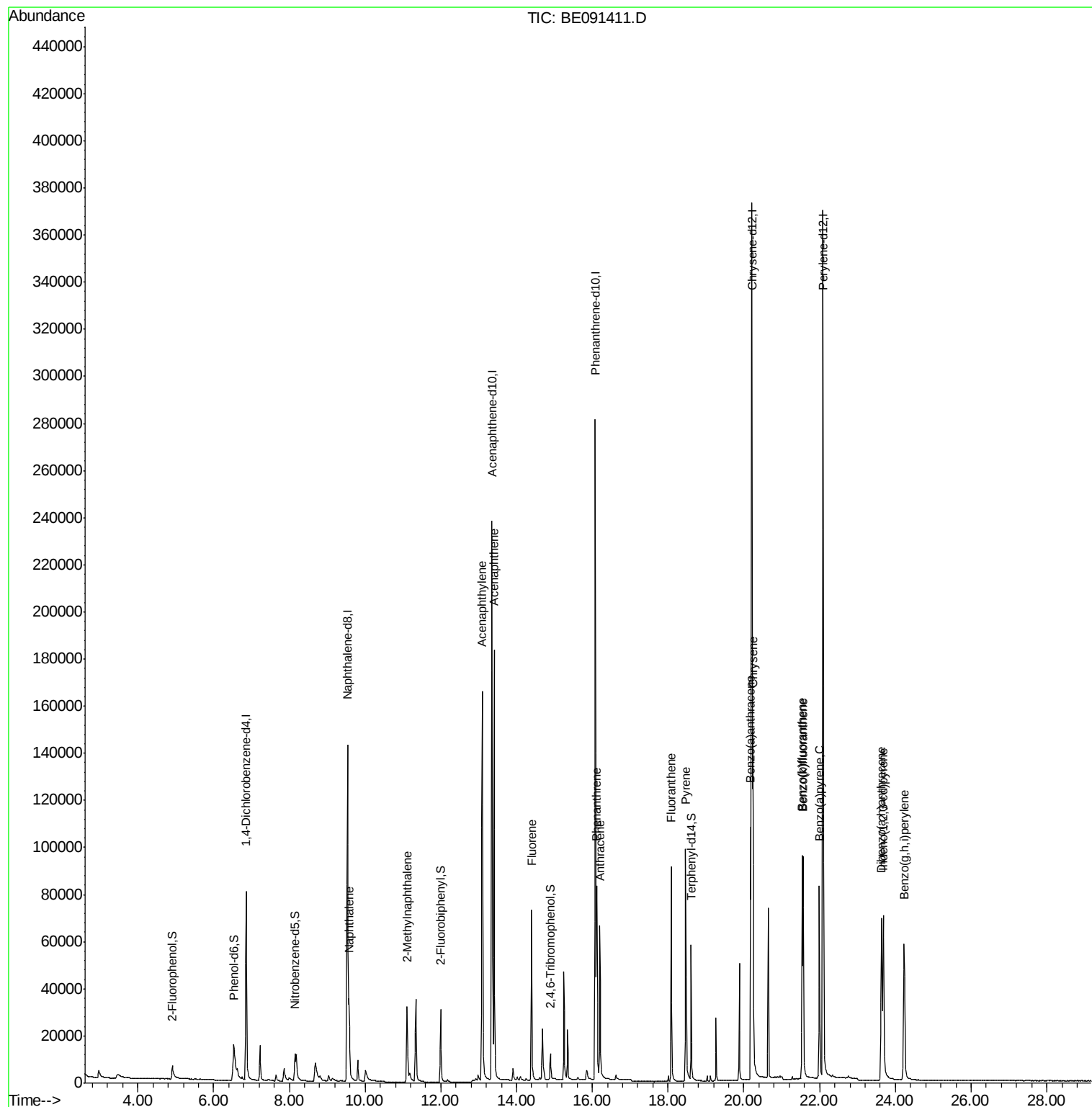
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	9.57	128	46230	0.94	ng	100
7) 2-Methylnaphthalene	11.10	142	28643	1.04	ng	98
11) Acenaphthylene	13.09	152	229706	1.09	ng	100
12) Acenaphthene	13.41	154	35125	0.92	ng	97
13) Fluorene	14.39	166	47457	0.96	ng	99
15) Phenanthrene	16.12	178	80658	0.93	ng	99
16) Anthracene	16.20	178	79665	1.09	ng	100
17) Fluoranthene	18.08	202	91101	1.09	ng	99
19) Pyrene	18.47	202	93339	1.09	ng	99
21) Benzo(a)anthracene	20.18	228	92947	1.19	ng	99
22) Chrysene	20.24	228	95976	0.93	ng	98
23) Indeno(1,2,3-cd)pyrene	23.69	276	98929	1.23	ng	97
25) Benzo(b)fluoranthene	21.54	252	92406	1.02	ng	98
26) Benzo(k)fluoranthene	21.57	252	104477	1.03	ng	99
27) Benzo(a)pyrene	21.99	252	93144	1.12	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	96129	1.22	ng	99
29) Benzo(g,h,i)perylene	24.23	276	100554	1.10	ng	98

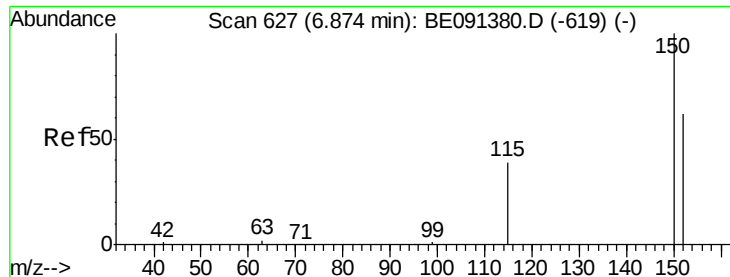
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.86 min Scan# 625

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

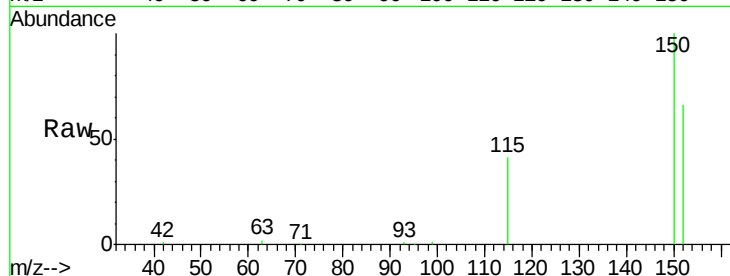
Tot Ion:152 Resp: 43942

Ion Ratio Lower Upper

152 100

150 151.4 128.9 193.3

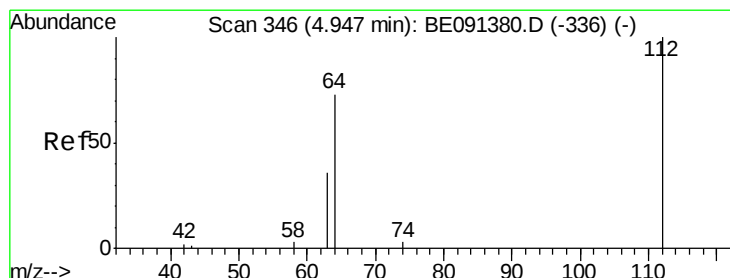
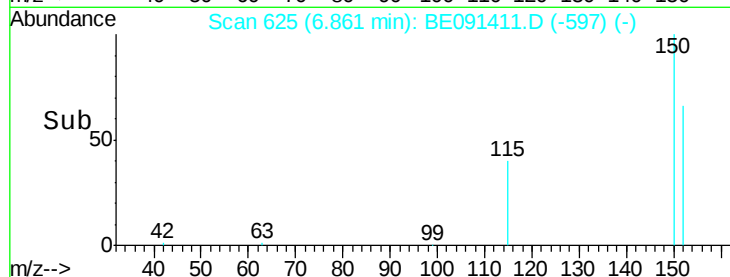
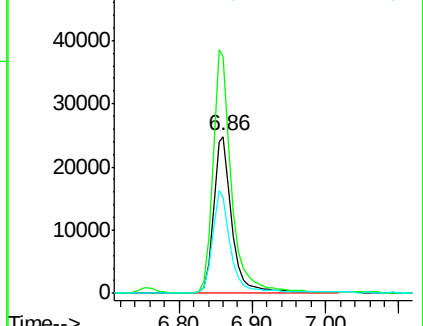
115 61.6 50.9 76.3



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: 1.13 ng

RT: 4.91 min Scan# 341

Delta R.T. -0.04 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

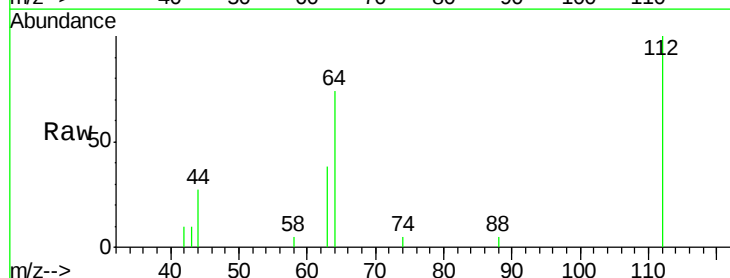
Tgt Ion:112 Resp: 9778

Ion Ratio Lower Upper

112 100

64 76.0 60.5 90.7

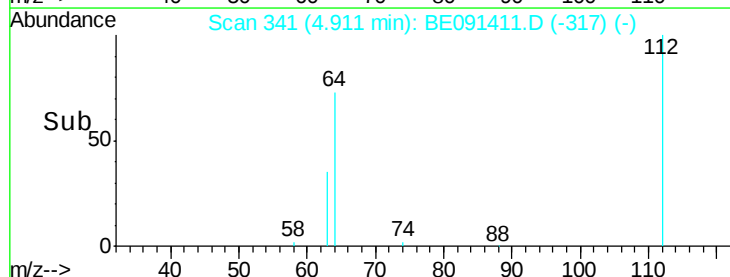
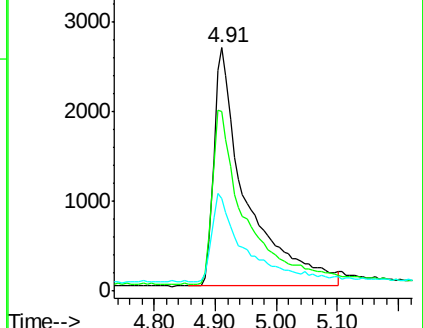
63 38.0 29.8 44.8

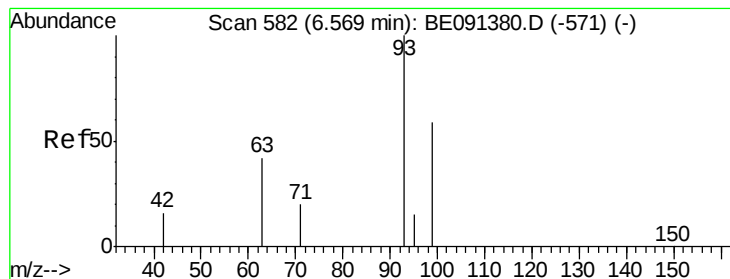


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.21 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

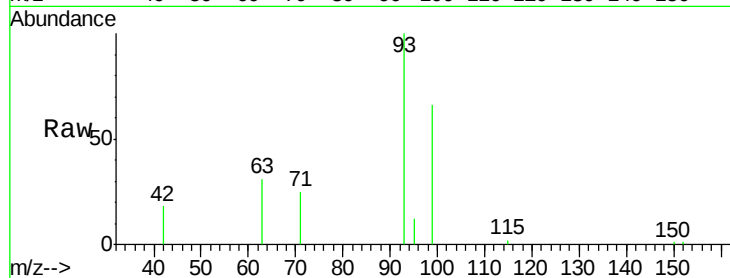
Tot Ion: 99 Resp: 15154

Ion Ratio Lower Upper

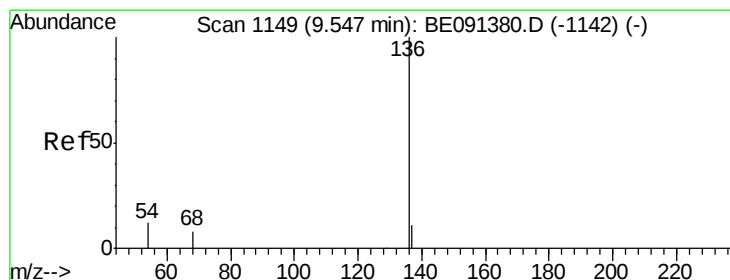
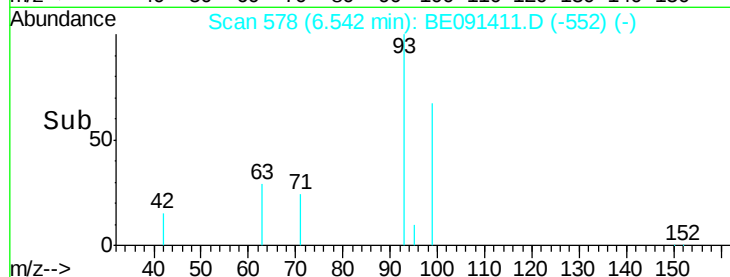
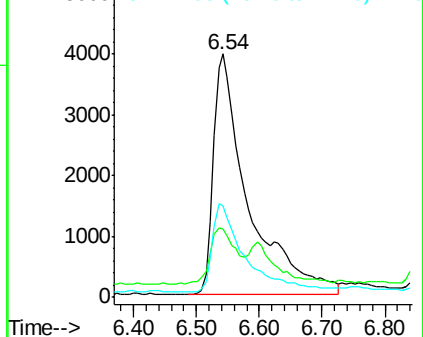
99 100

42 17.9 13.3 19.9

71 34.7 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: 9.53 min Scan# 1147

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Tgt Ion: 136 Resp: 218633

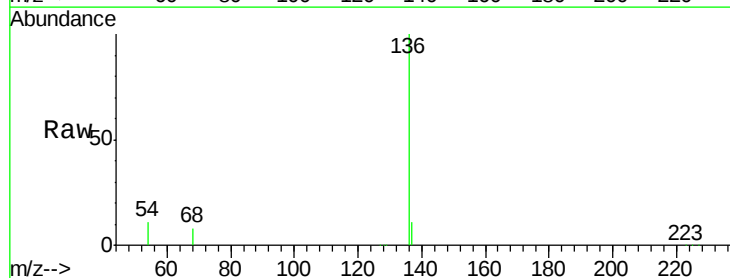
Ion Ratio Lower Upper

136 100

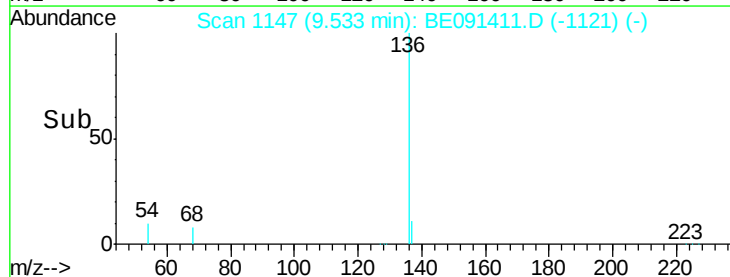
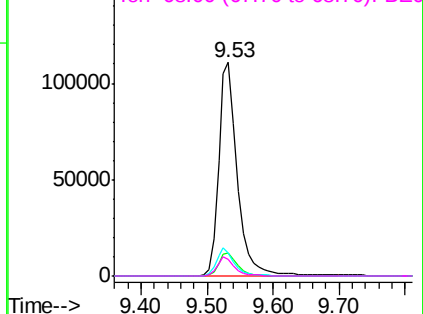
137 11.0 8.7 13.1

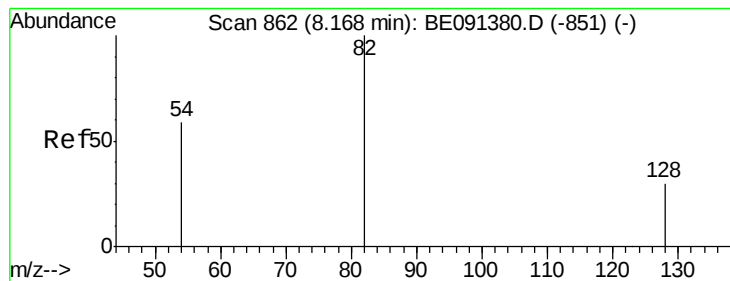
54 10.5 9.3 13.9

68 7.7 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: 1.23 ng

RT: 8.14 min Scan# 856

Delta R.T. -0.03 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

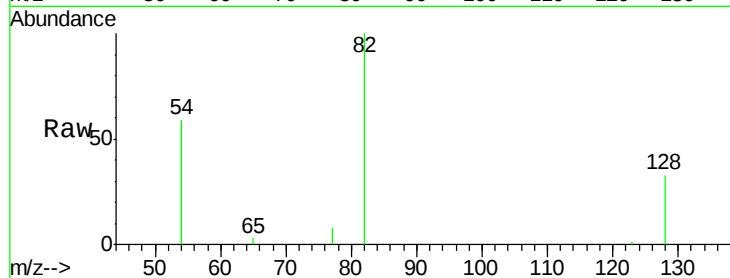
Tot Ion: 82 Resp: 14535

Ion Ratio Lower Upper

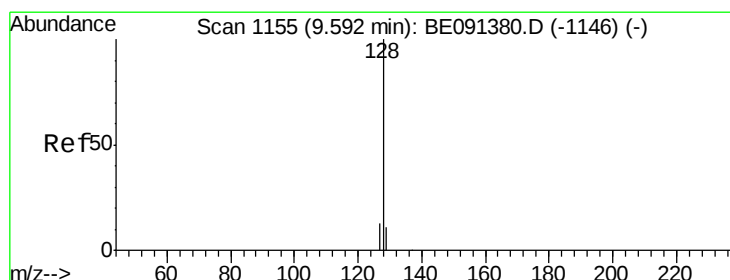
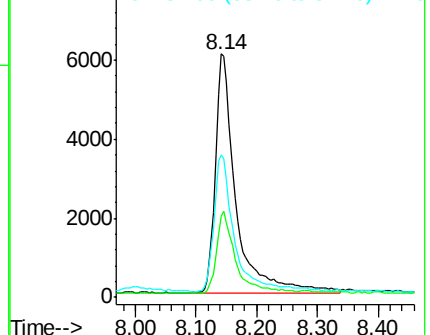
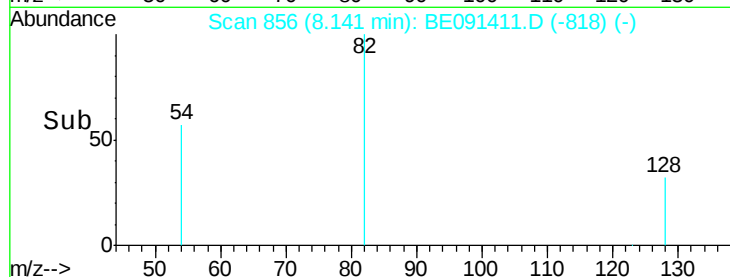
82 100

128 33.0 25.0 37.4

54 58.6 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE091411.D (-818) (-)



#6

Naphthalene

Concen: 0.94 ng

RT: 9.57 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

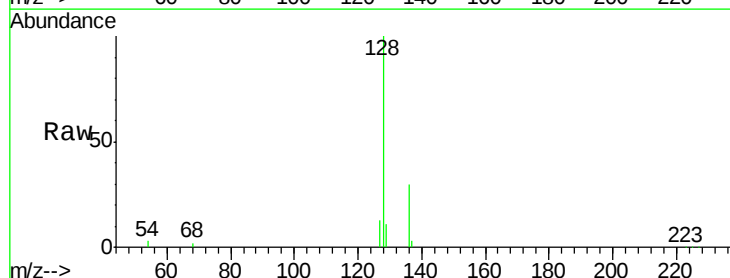
Tgt Ion: 128 Resp: 46230

Ion Ratio Lower Upper

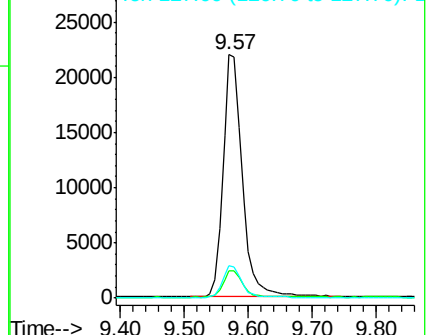
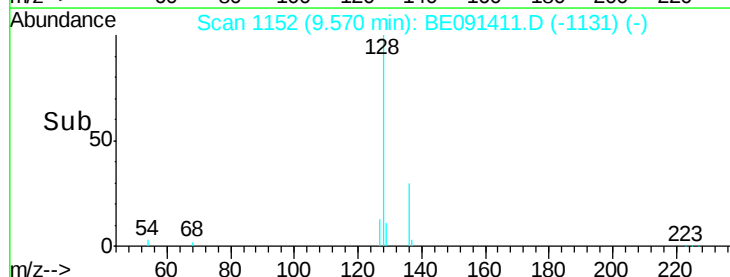
128 100

129 11.1 9.1 13.7

127 13.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE091411.D (-1131) (-)





#7

2-Methylnaphthalene

Concen: 1.04 ng

RT: 11.10 min Scan# 1404

Delta R.T. -0.02 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

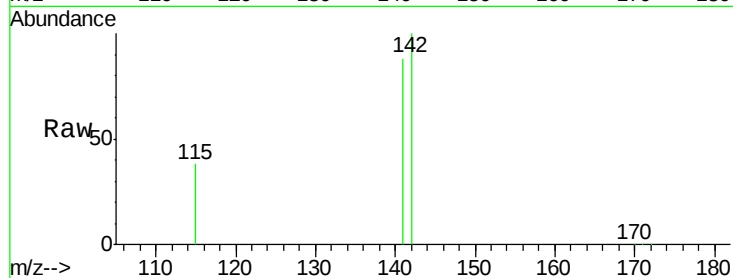
Tot Ion:142 Resp: 28643

Ion Ratio Lower Upper

142 100

141 88.4 72.3 108.5

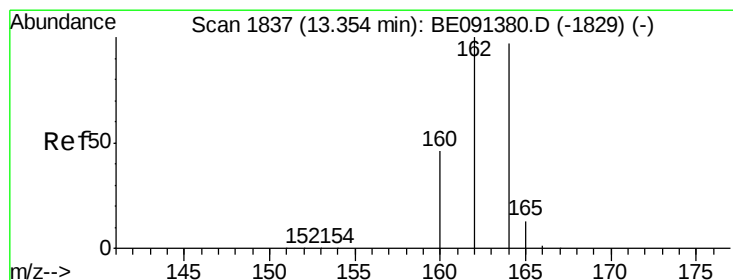
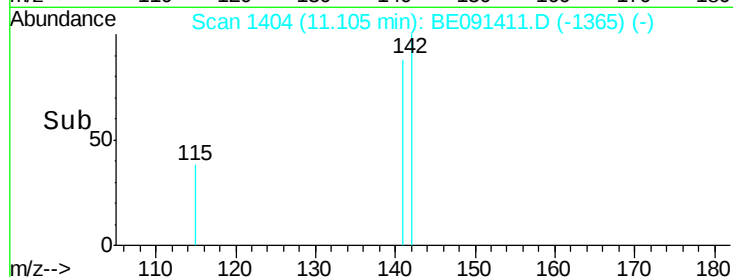
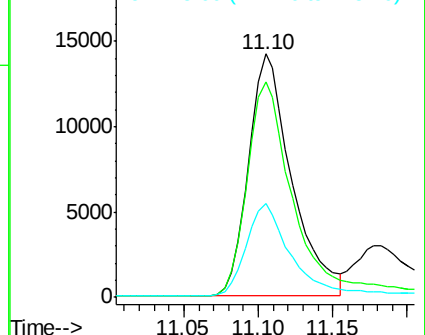
115 38.5 30.5 45.7



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: 13.34 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

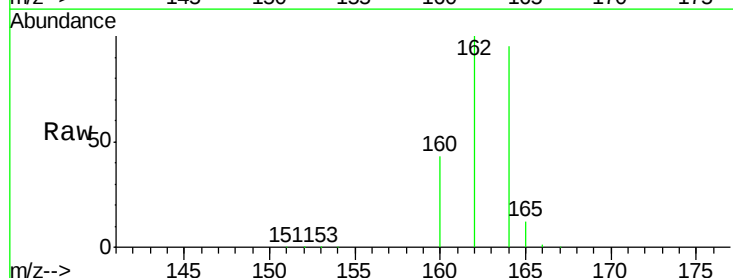
Tgt Ion:164 Resp: 138868

Ion Ratio Lower Upper

164 100

162 105.0 82.2 123.2

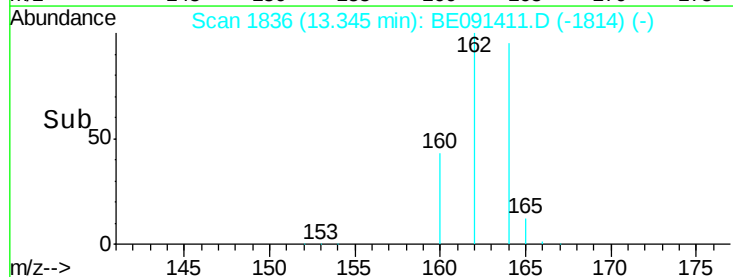
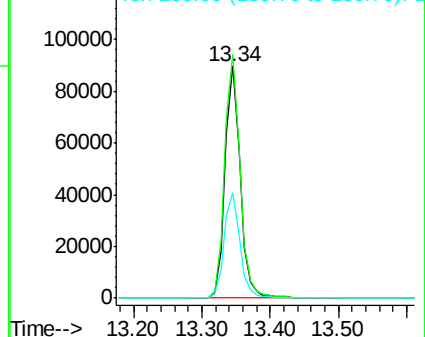
160 45.5 37.8 56.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

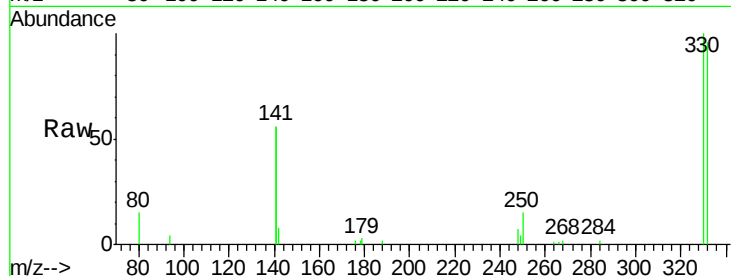




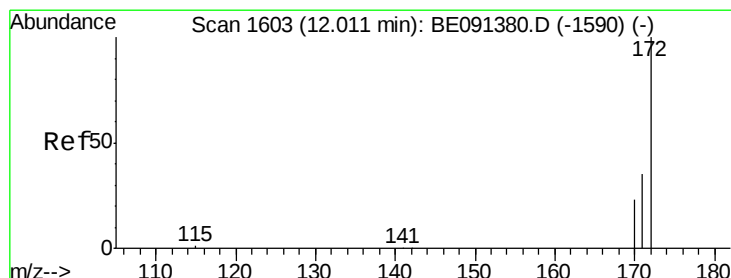
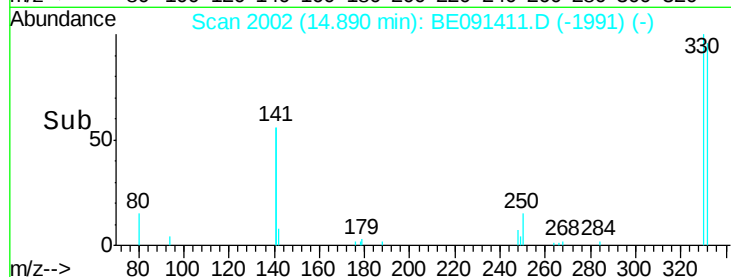
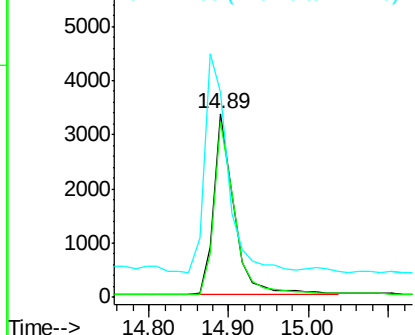
#9
 2,4,6-Tribromophenol
 Concen: 1.18 ng
 RT: 14.89 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BE091411.D
 Acq: 17 Feb 2016 19:20

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tot Ion:330 Resp: 5990
 Ion Ratio Lower Upper
 330 100
 332 96.7 78.8 118.2
 141 131.0 105.1 157.7

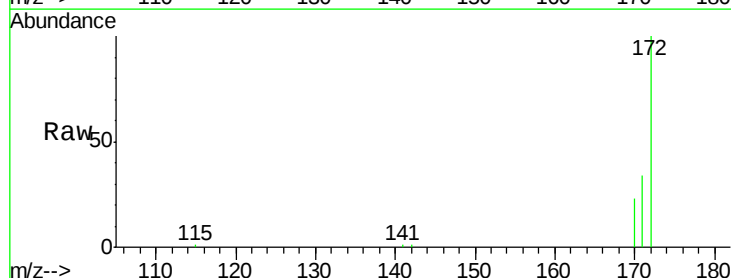


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

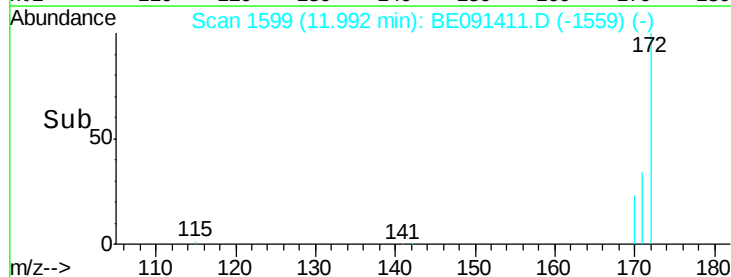
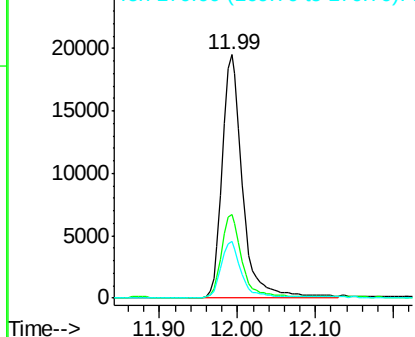


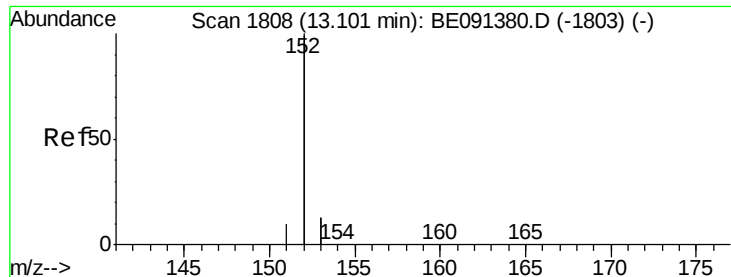
#10
 2-Fluorobiphenyl
 Concen: 0.97 ng
 RT: 11.99 min Scan# 1599
 Delta R.T. -0.02 min
 Lab File: BE091411.D
 Acq: 17 Feb 2016 19:20

Tgt Ion:172 Resp: 35001
 Ion Ratio Lower Upper
 172 100
 171 34.5 27.8 41.8
 170 23.0 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: 1.09 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

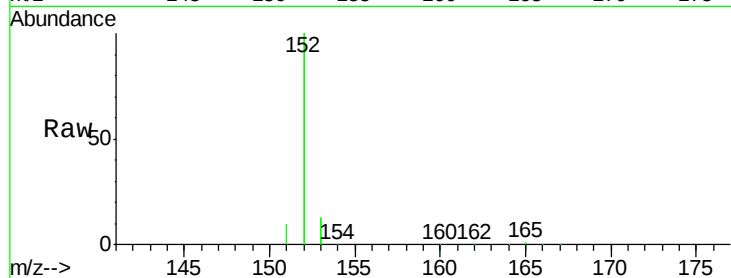
Tot Ion:152 Resp: 229706

Ion Ratio Lower Upper

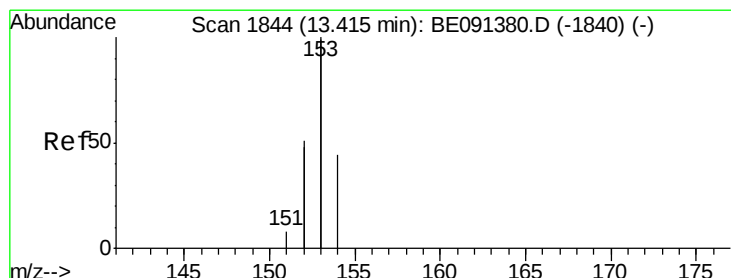
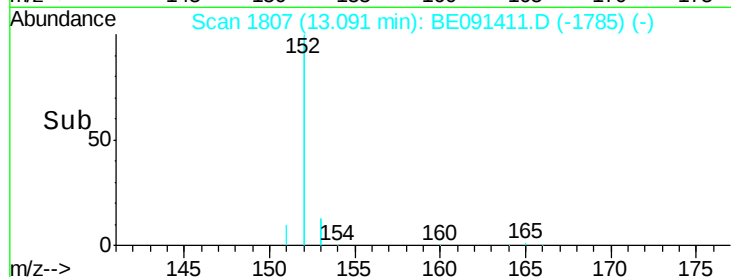
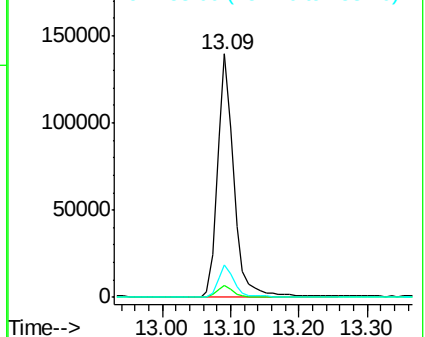
152 100

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: 0.92 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

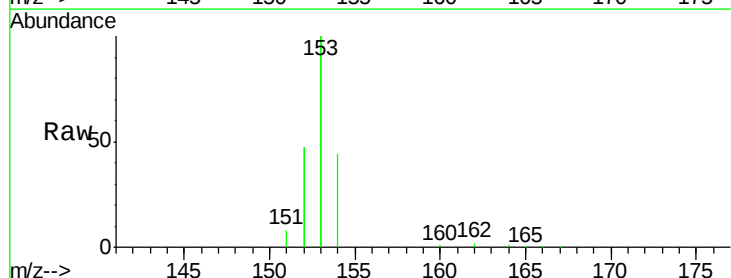
Tgt Ion:154 Resp: 35125

Ion Ratio Lower Upper

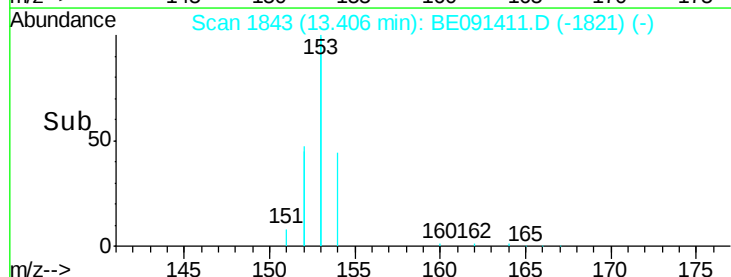
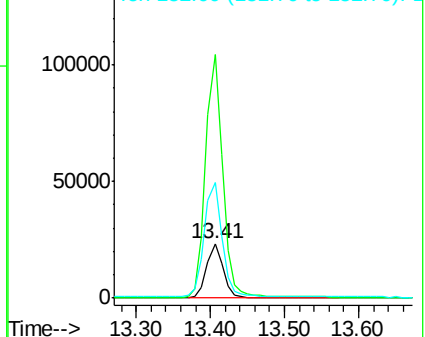
154 100

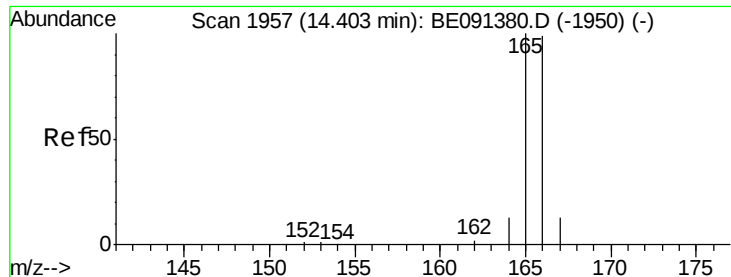
153 462.2 369.8 554.8

152 227.5 194.4 291.6



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: 0.96 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

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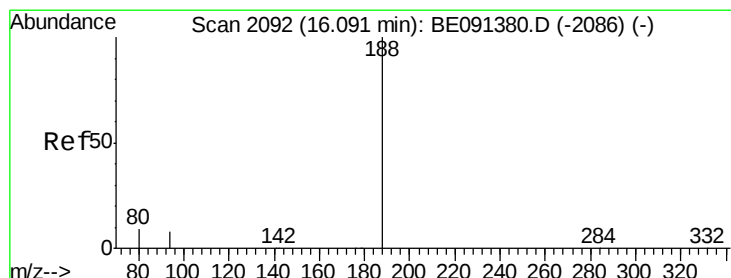
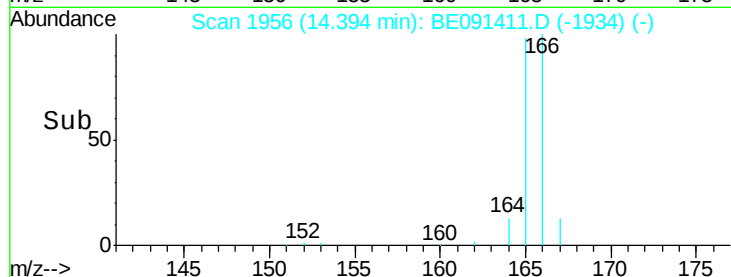
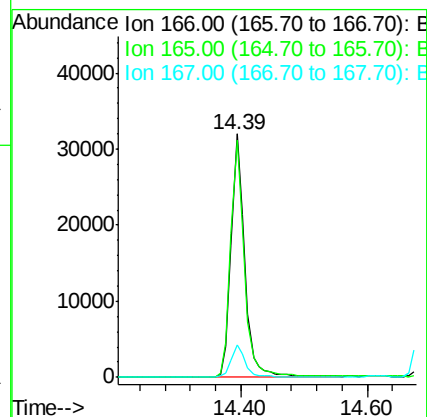
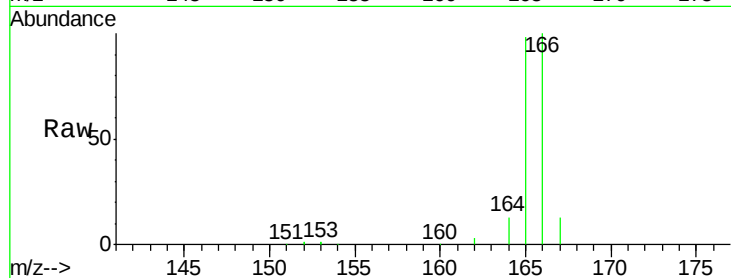
Tot Ion:166 Resp: 47457

Ion Ratio Lower Upper

166 100

165 98.2 79.3 118.9

167 13.4 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: BE091411.D

Acq: 17 Feb 2016 19:20

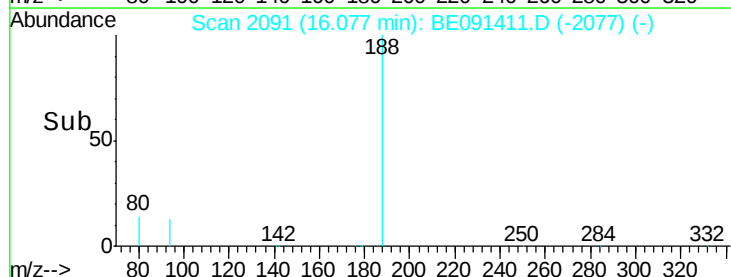
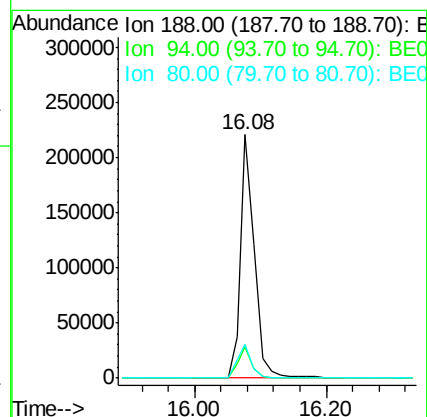
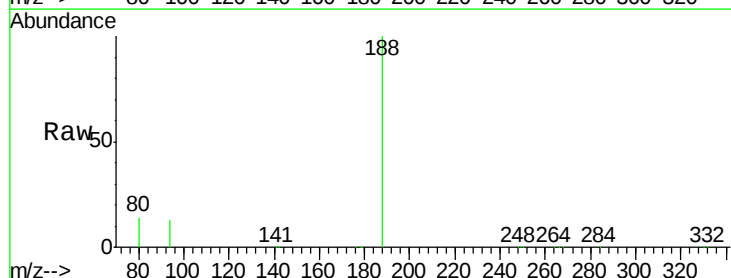
Tgt Ion:188 Resp: 331652

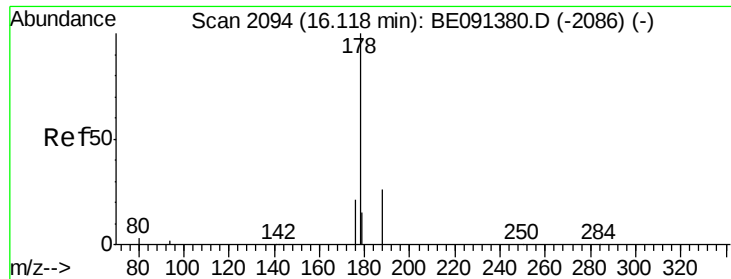
Ion Ratio Lower Upper

188 100

94 12.6 6.6 10.0#

80 14.0 7.0 10.6#





#15

Phenanthrene

Concen: 0.93 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

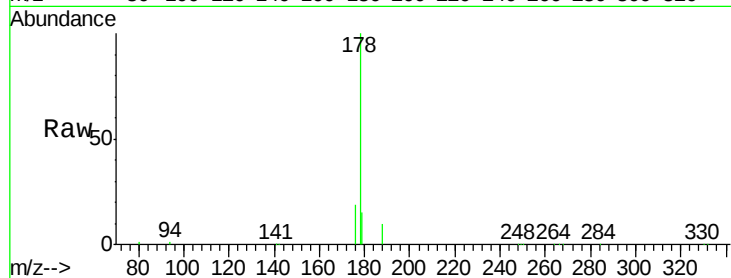
Tot Ion:178 Resp: 80658

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

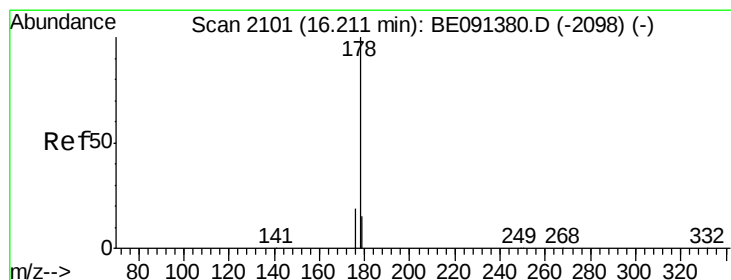
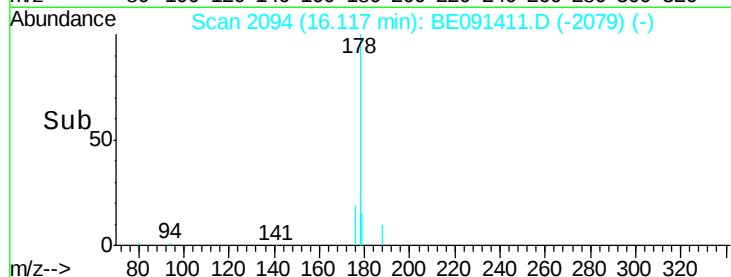
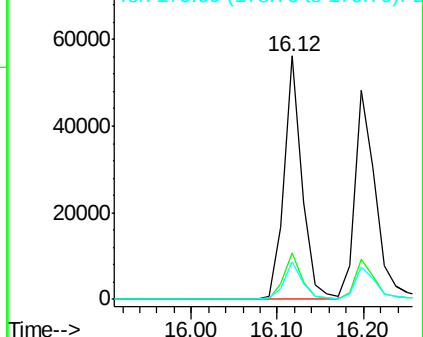
179 15.5 12.7 19.1



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: 1.09 ng

RT: 16.20 min Scan# 2100

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

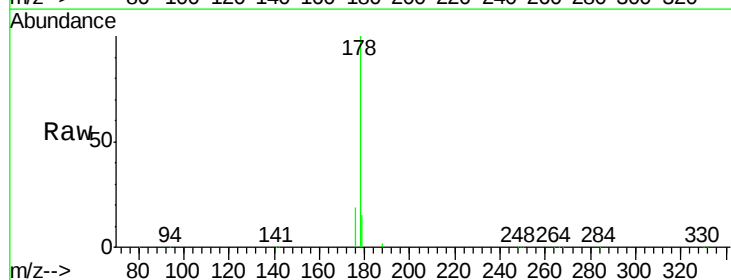
Tgt Ion:178 Resp: 79665

Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

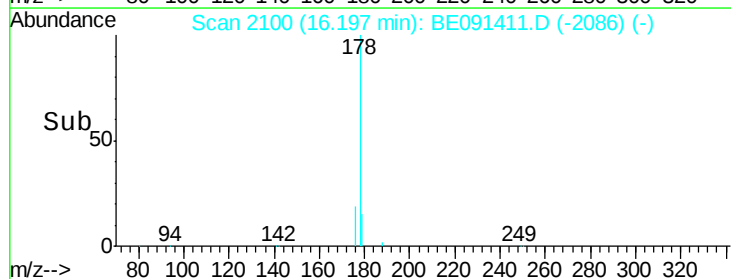
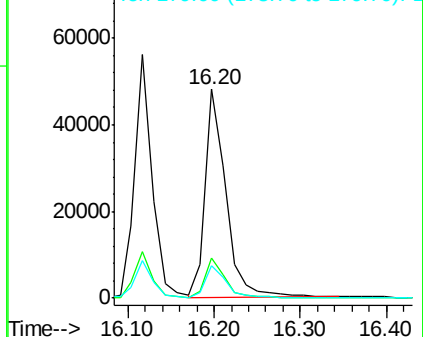
179 15.2 12.1 18.1

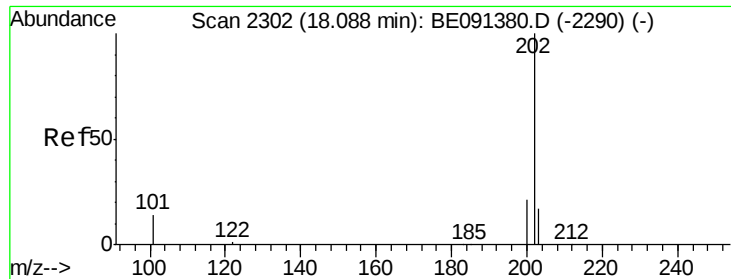


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 1.09 ng

RT: 18.08 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

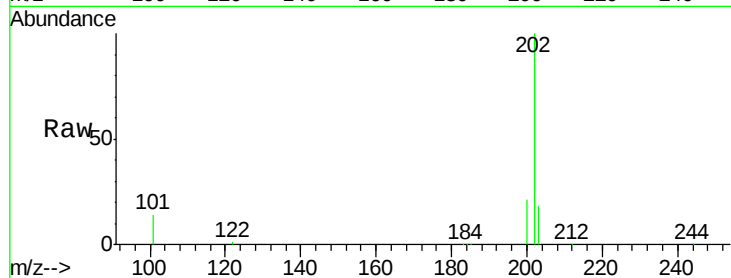
Tot Ion:202 Resp: 91101

Ion Ratio Lower Upper

202 100

101 14.1 10.5 15.7

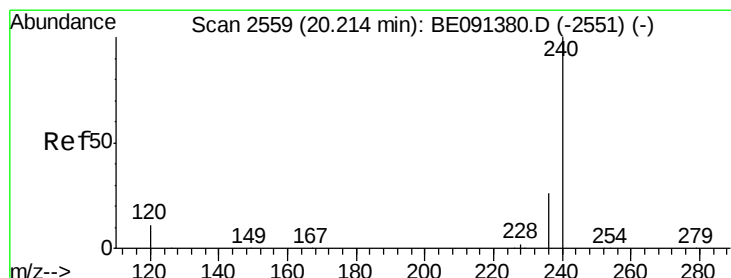
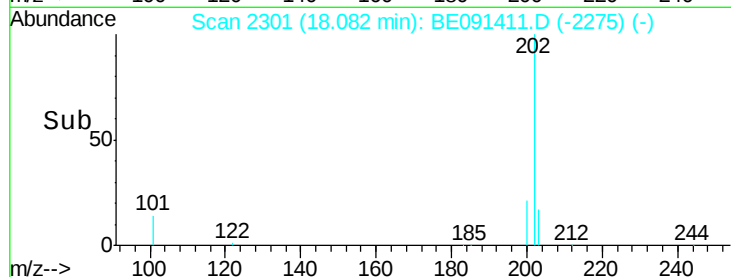
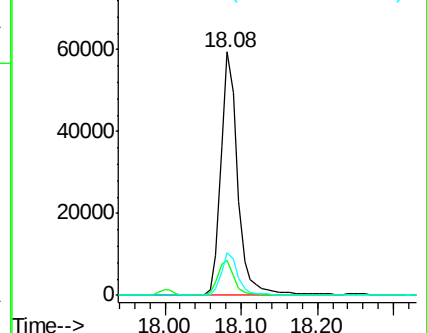
203 17.3 13.9 20.9



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# 2559

Delta R.T. 0.00 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

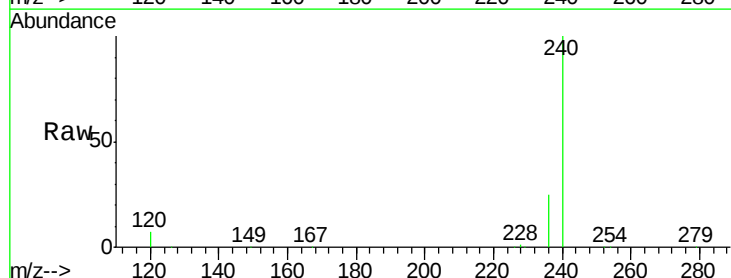
Tgt Ion:240 Resp: 393856

Ion Ratio Lower Upper

240 100

120 7.0 8.9 13.3#

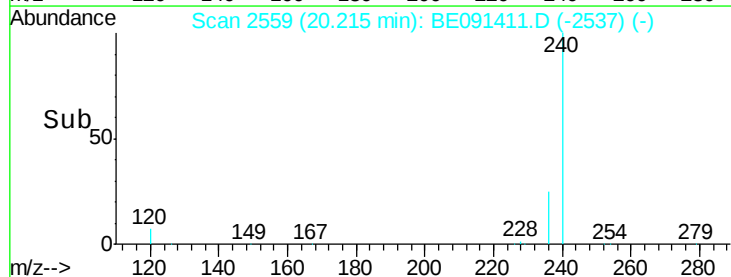
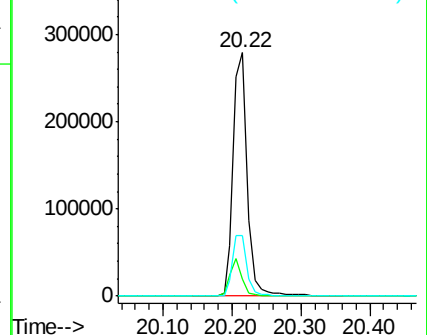
236 24.8 21.0 31.4



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: 1.09 ng

RT: 18.47 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

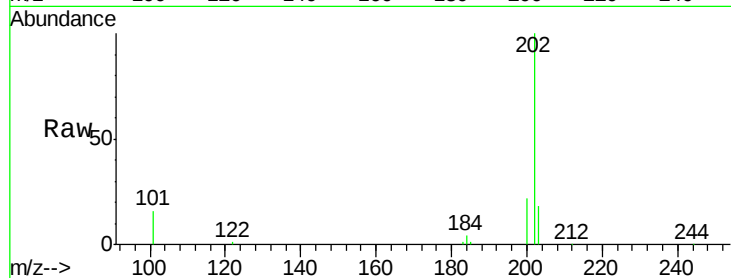
Tot Ion:202 Resp: 93339

Ion Ratio Lower Upper

202 100

200 21.5 16.8 25.2

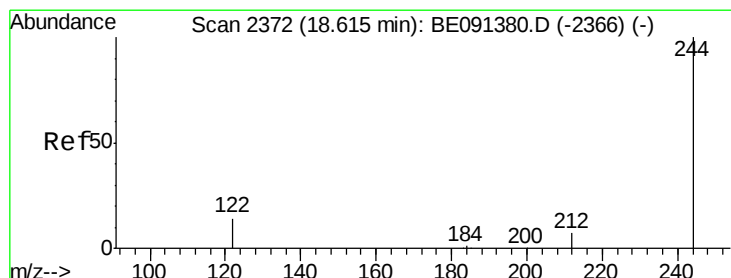
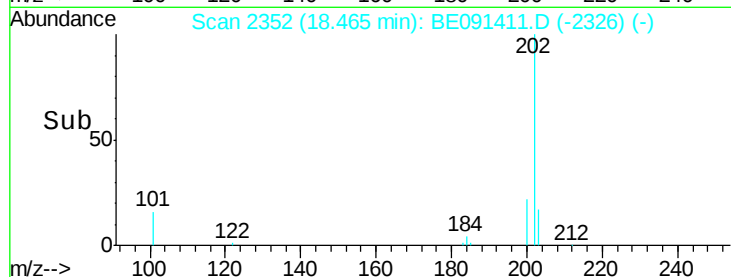
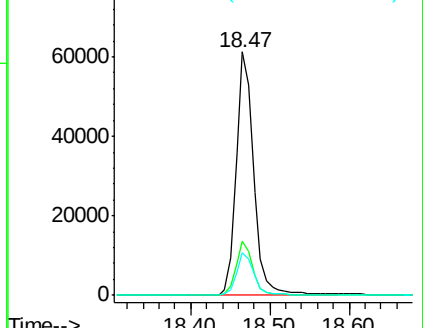
203 17.5 14.0 21.0



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: 1.09 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

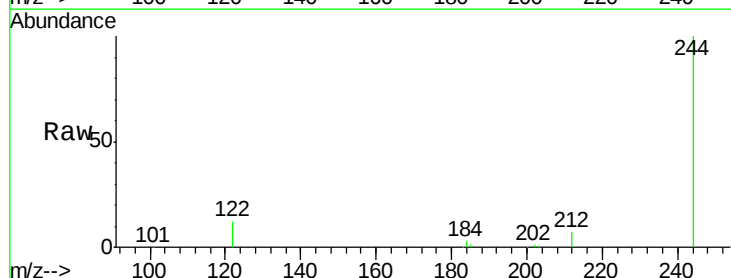
Tgt Ion:244 Resp: 63454

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

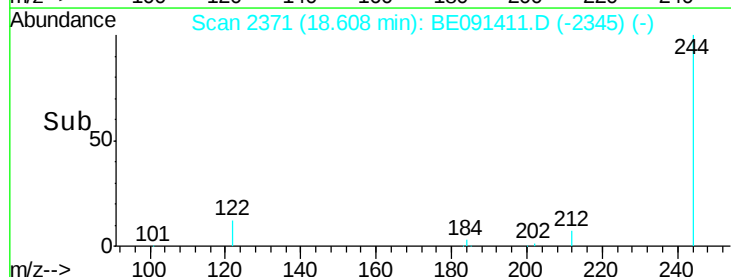
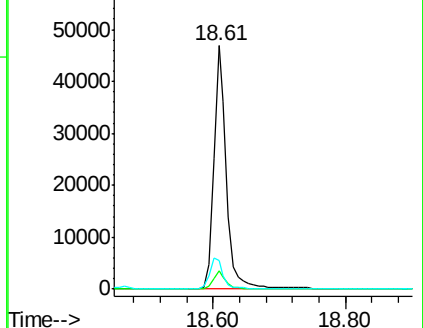
122 11.9 11.0 16.6

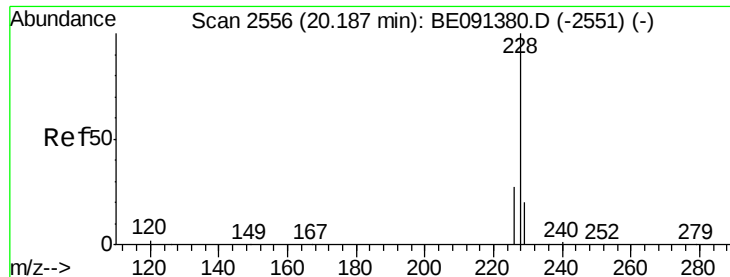


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 1.19 ng

RT: 20.18 min Scan# 2555

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

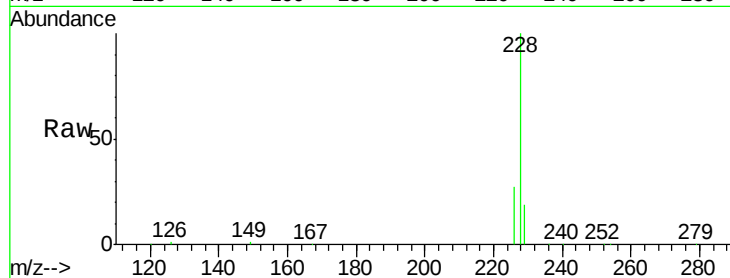
Tot Ion:228 Resp: 92947

Ion Ratio Lower Upper

228 100

226 27.3 21.7 32.5

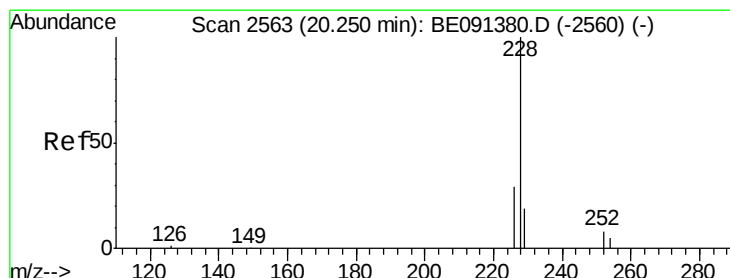
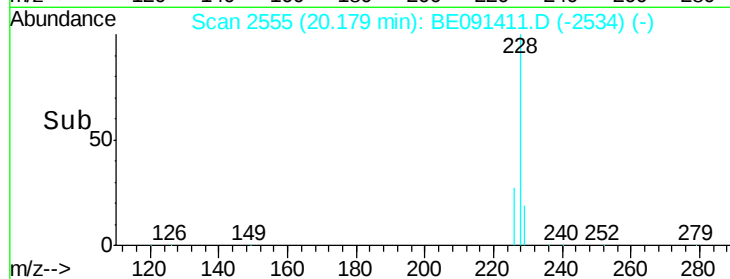
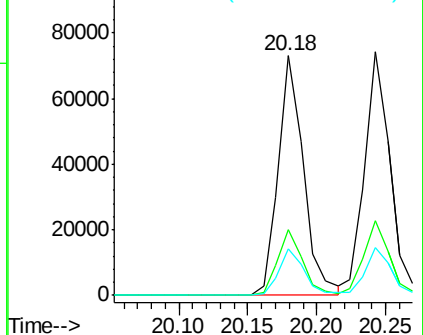
229 19.2 16.1 24.1



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: 20.24 min Scan# 2562

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

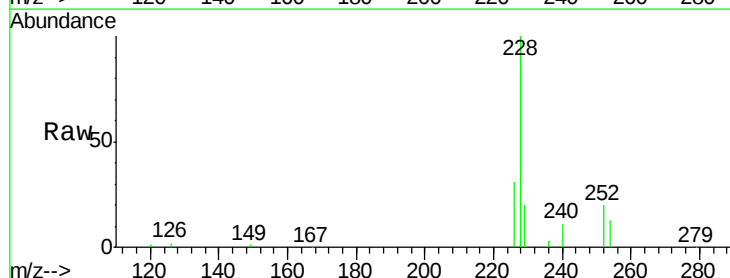
Tgt Ion:228 Resp: 95976

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.0

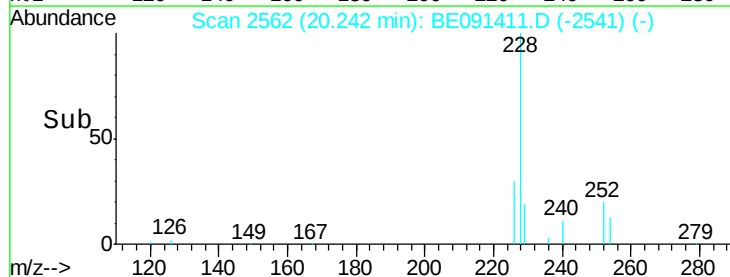
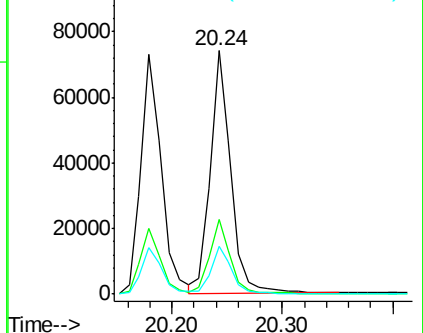
229 19.5 15.7 23.5

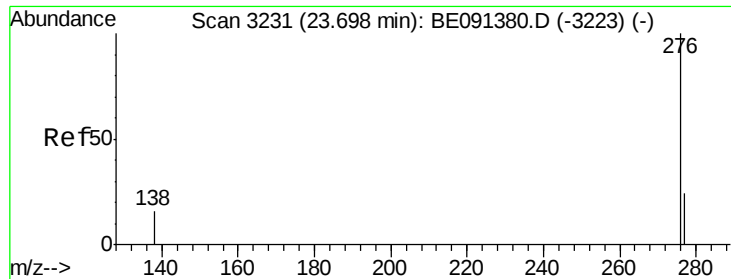


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

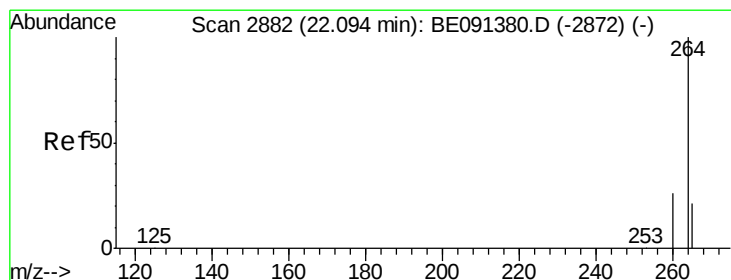
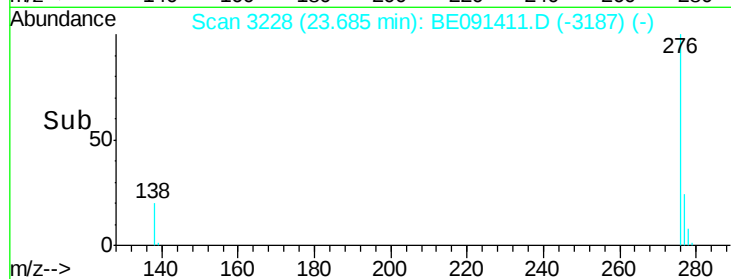
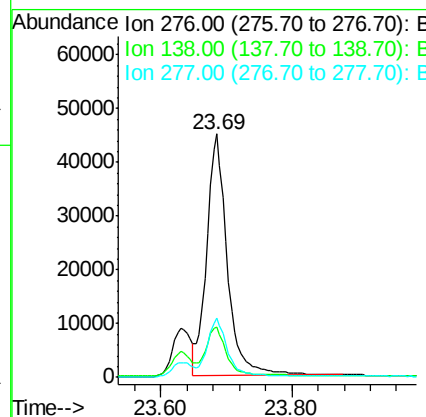
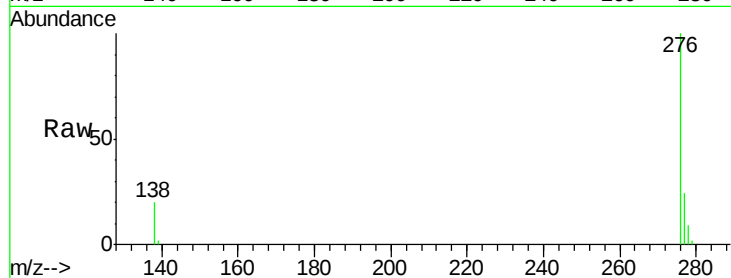




#23
Indeno(1,2,3-cd)pyrene
Concen: 1.23 ng
RT: 23.69 min Scan# 3228
Delta R.T. -0.01 min
Lab File: BE091411.D
Acq: 17 Feb 2016 19:20

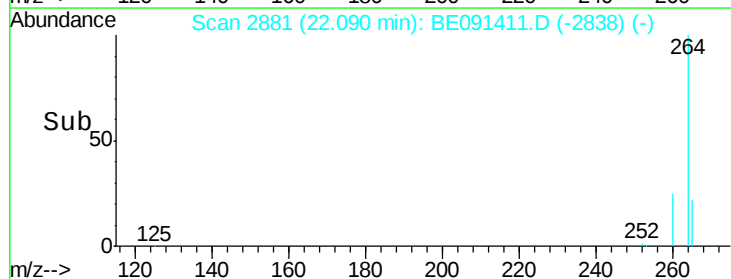
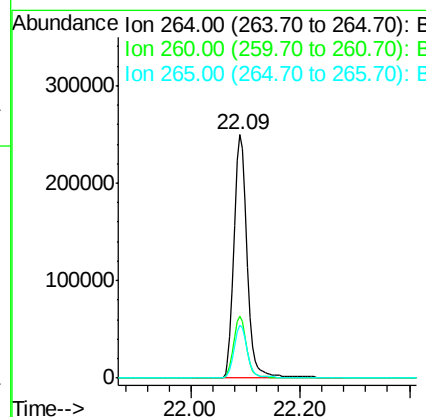
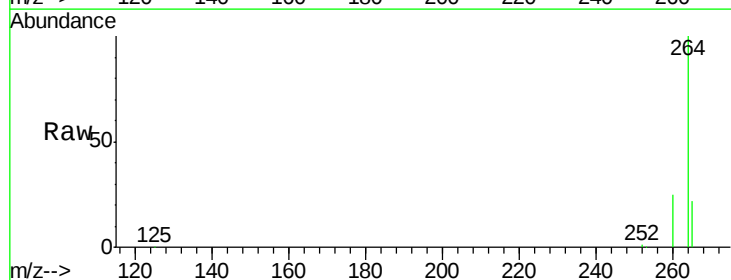
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tot Ion:276 Resp: 98929
Ion Ratio Lower Upper
276 100
138 19.0 16.6 25.0
277 22.9 19.0 28.6



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2881
Delta R.T. -0.00 min
Lab File: BE091411.D
Acq: 17 Feb 2016 19:20

Tgt Ion:264 Resp: 411540
Ion Ratio Lower Upper
264 100
260 25.2 20.7 31.1
265 21.9 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 1.02 ng

RT: 21.54 min Scan# 2760

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

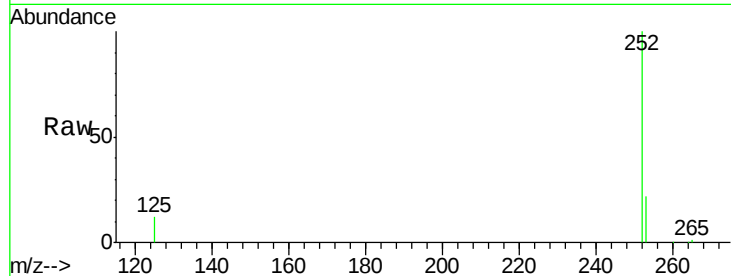
Tot Ion:252 Resp: 92406

Ion Ratio Lower Upper

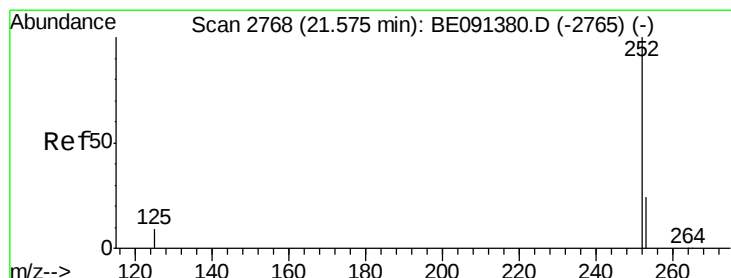
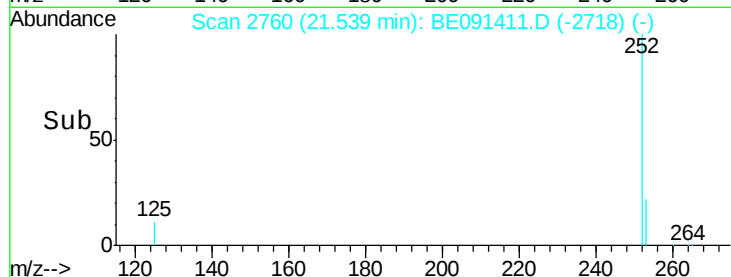
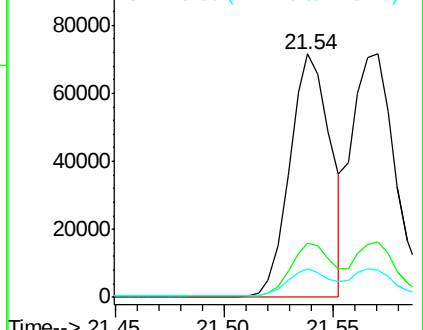
252 100

253 22.2 18.2 27.2

125 11.7 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: 1.03 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.00 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

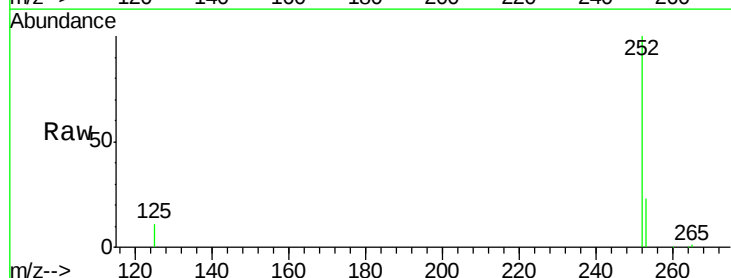
Tgt Ion:252 Resp: 104477

Ion Ratio Lower Upper

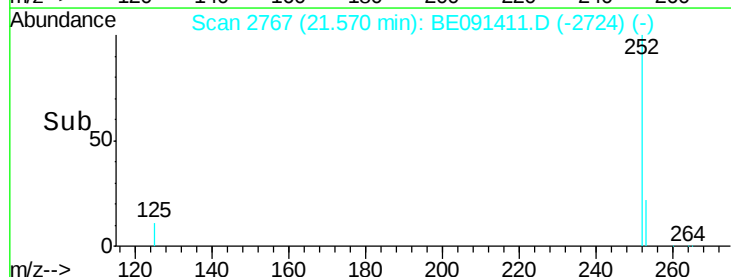
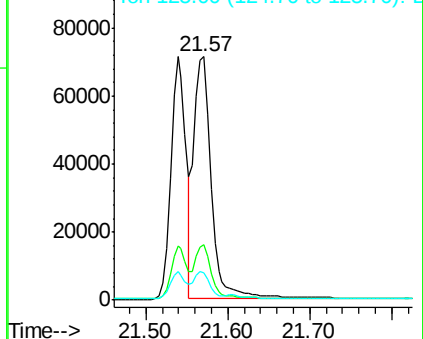
252 100

253 22.6 18.1 27.1

125 11.3 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: 1.12 ng

RT: 21.99 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

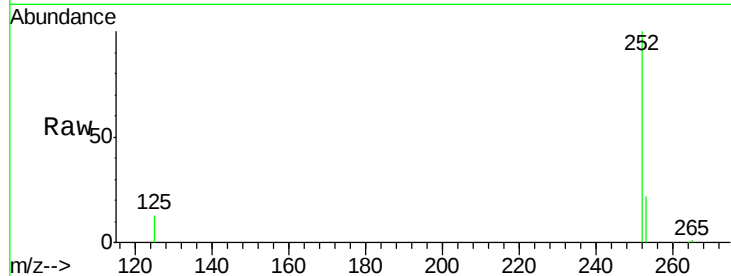
Tot Ion:252 Resp: 93144

Ion Ratio Lower Upper

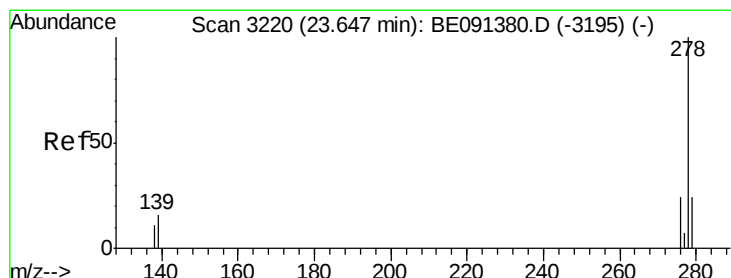
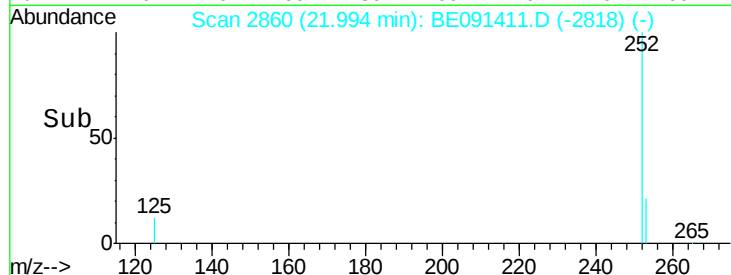
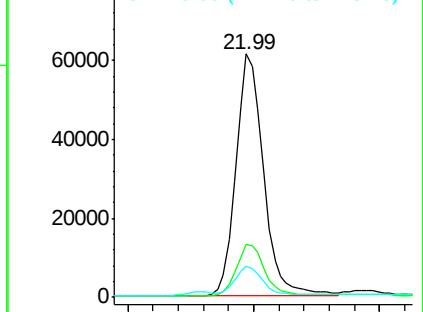
252 100

253 21.8 17.5 26.3

125 12.7 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: 1.22 ng

RT: 23.64 min Scan# 3217

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

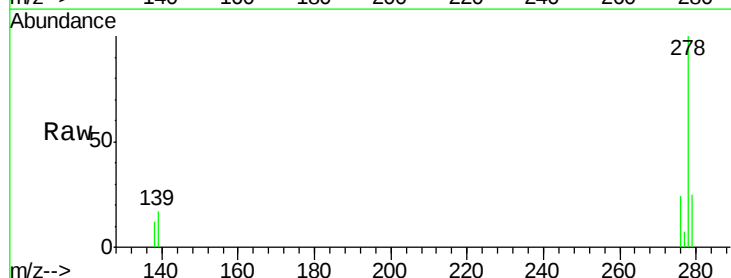
Tgt Ion:278 Resp: 96129

Ion Ratio Lower Upper

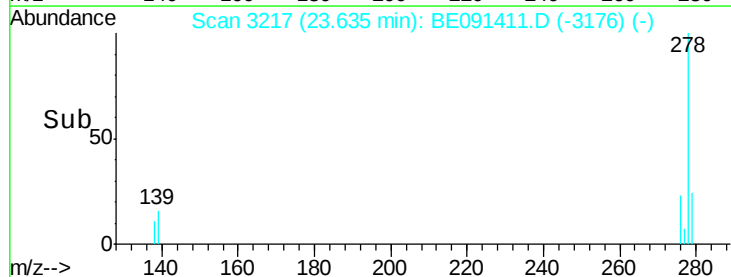
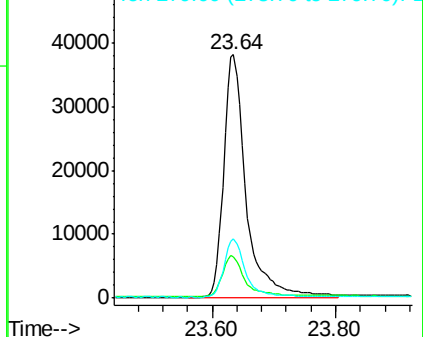
278 100

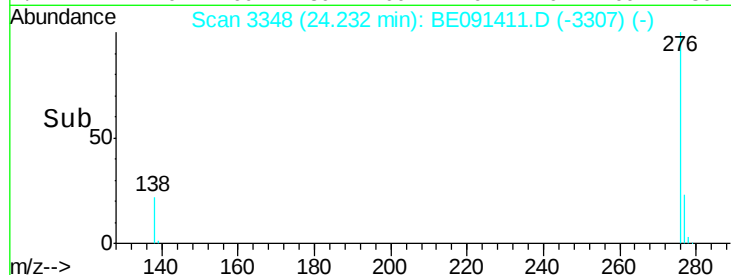
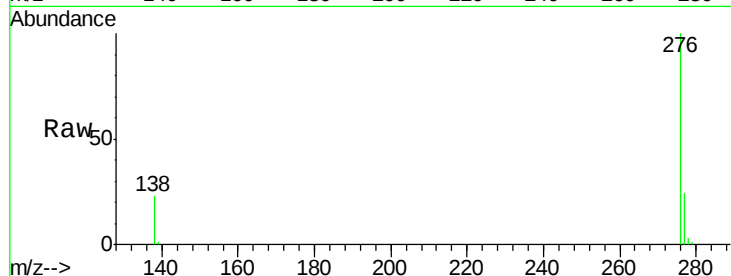
139 16.9 13.0 19.4

279 24.5 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(a,h,i)perylene

Concen: 1.10 ng

RT: 24.23 min Scan# 3348

Delta R.T. -0.01 min

Lab File: BE091411.D

Acq: 17 Feb 2016 19:20

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

Tot Ion: 276 Resp: 100554

Ion Ratio Lower Upper

276 100

277 23.6 18.9 28.3

138 22.8 17.0 25.6

