

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021916\
 Data File : BE091413.D
 Acq On : 19 Feb 2016 13:19
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Feb 19 22:37:56 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

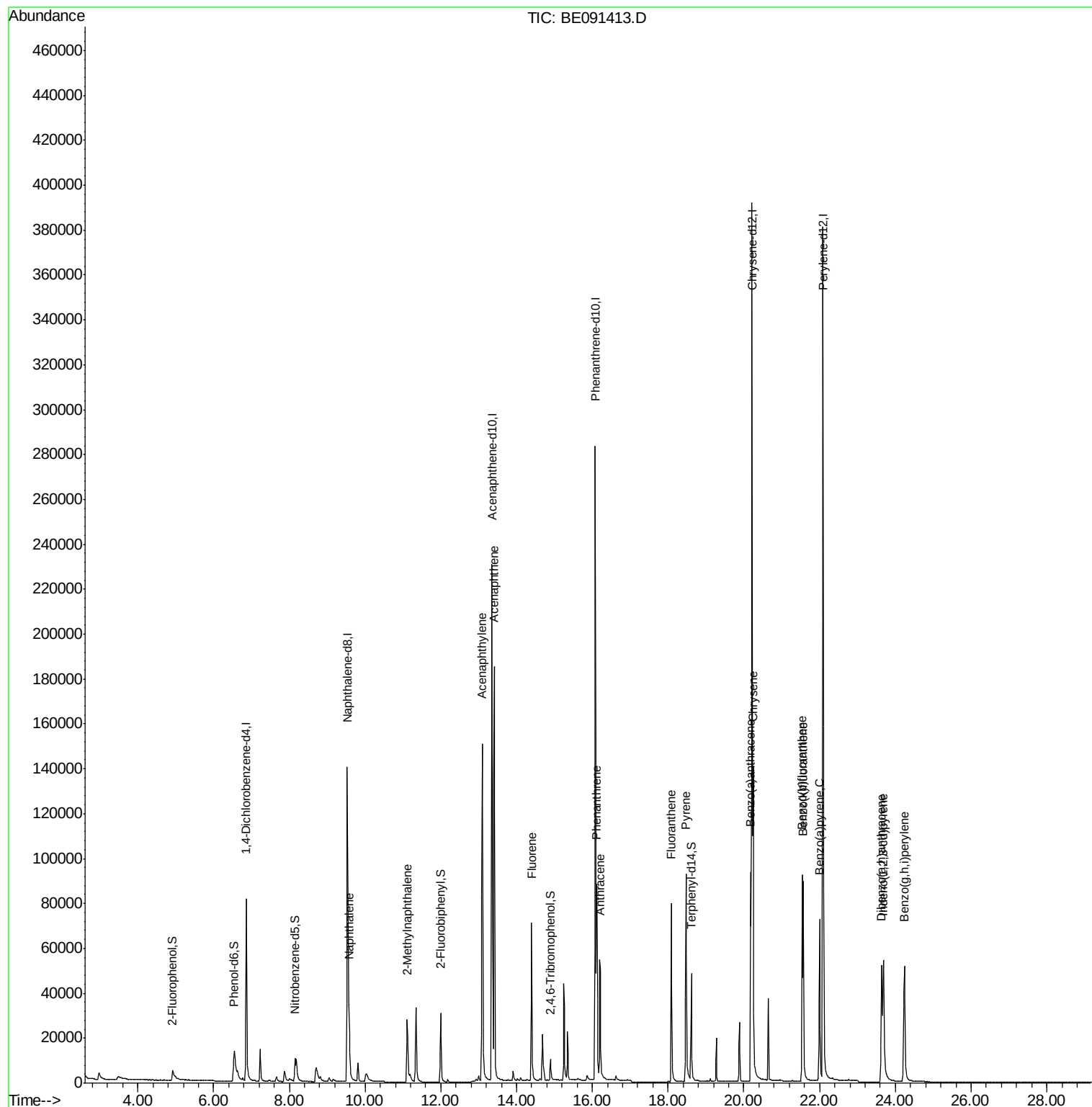
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	43184	5.00	ng	-0.01
4) Naphthalene-d8	9.53	136	213677	5.00	ng	-0.02
8) Acenaphthene-d10	13.35	164	139454	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	341114	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	385194	5.00	ng	0.00
24) Perylene-d12	22.09	264	393603	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.92	112	8964	1.07	ng	-0.03
3) Phenol-d6	6.55	99	10923	0.94	ng	-0.02
5) Nitrobenzene-d5	8.15	82	12502	1.11	ng	-0.02
9) 2,4,6-Tribromophenol	14.89	330	4805	1.01	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	34721	0.96	ng	-0.01
20) Terphenyl-d14	18.61	244	60659	1.06	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.58	128	45192	0.94	ng	99
7) 2-Methylnaphthalene	11.11	142	27722	1.03	ng	100
11) Acenaphthylene	13.09	152	216929	1.04	ng	100
12) Acenaphthene	13.41	154	35709	0.93	ng	96
13) Fluorene	14.39	166	48001	0.97	ng	100
15) Phenanthrene	16.12	178	84999	0.95	ng	99
16) Anthracene	16.20	178	78734	1.05	ng	100
17) Fluoranthene	18.09	202	87413	1.03	ng	99
19) Pyrene	18.47	202	91332	1.09	ng	100
21) Benzo(a)anthracene	20.18	228	82481	1.10	ng	98
22) Chrysene	20.24	228	100384	1.00	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	87210	1.12	ng	99
25) Benzo(b)fluoranthene	21.54	252	85644	1.00	ng	98
26) Benzo(k)fluoranthene	21.57	252	102397	1.06	ng	98
27) Benzo(a)pyrene	22.00	252	87397	1.10	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	81204	1.11	ng	99
29) Benzo(a,h,i)perylene	24.24	276	91482	1.05	ng	98

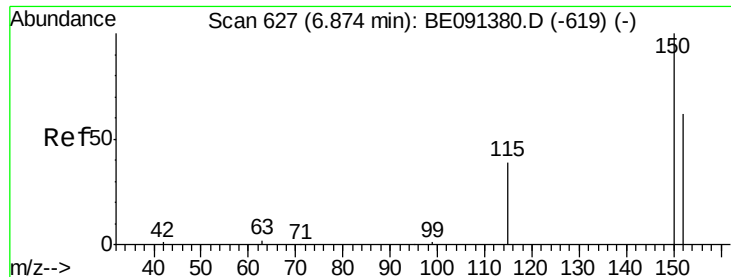
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

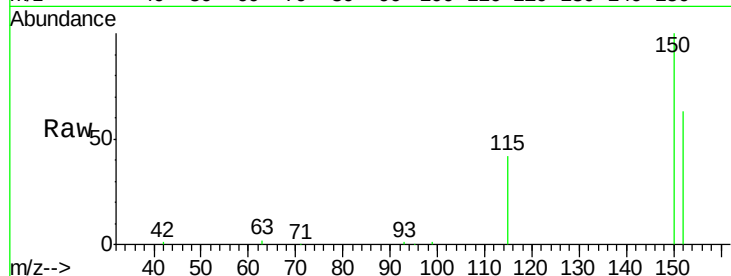
Tot Ion:152 Resp: 43184

Ion Ratio Lower Upper

152 100

150 158.8 128.9 193.3

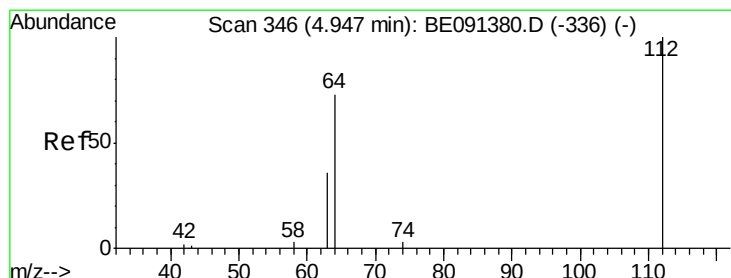
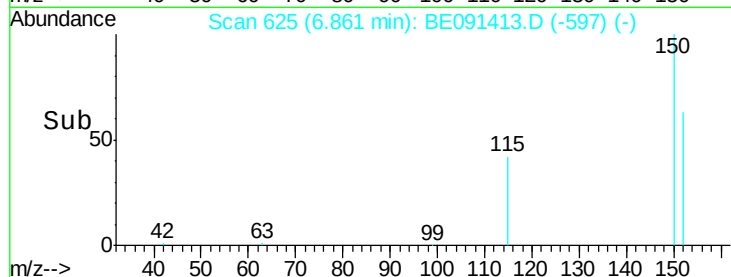
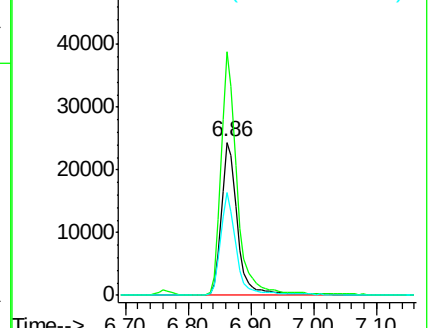
115 66.7 50.9 76.3



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: 1.07 ng

RT: 4.92 min Scan# 342

Delta R.T. -0.03 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

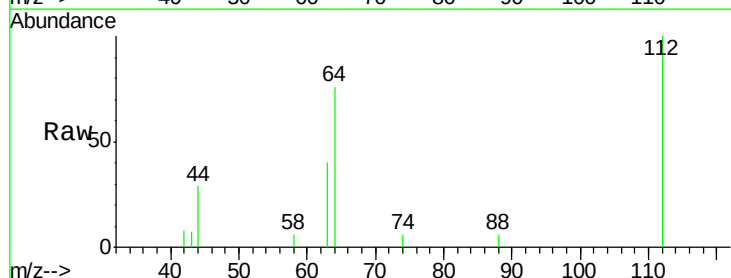
Tgt Ion:112 Resp: 8964

Ion Ratio Lower Upper

112 100

64 73.0 60.5 90.7

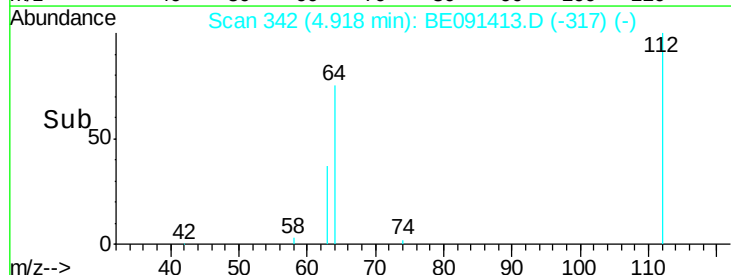
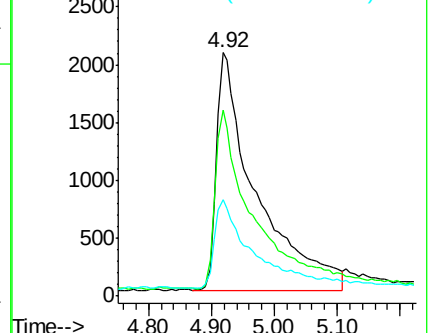
63 37.5 29.8 44.8

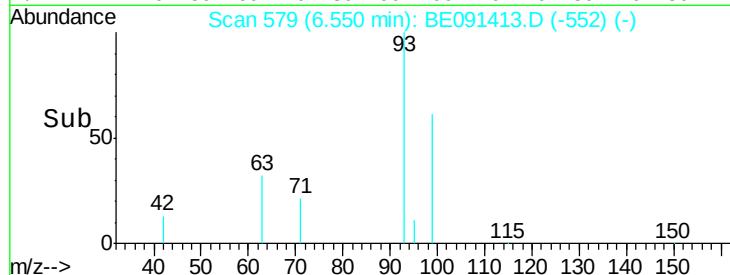
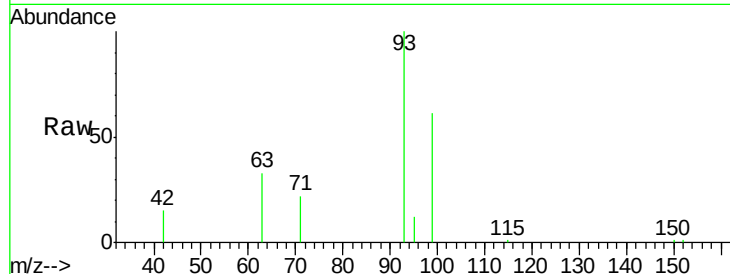
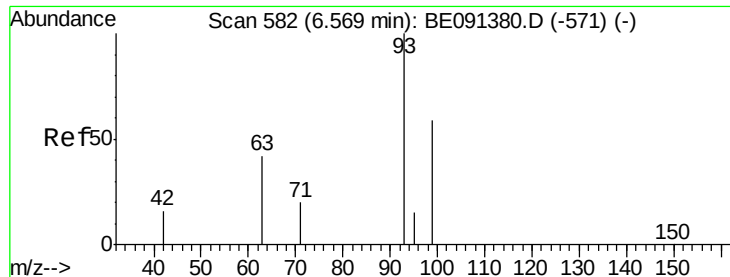


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 0.94 ng

RT: 6.55 min Scan# 579

Delta R.T. -0.02 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

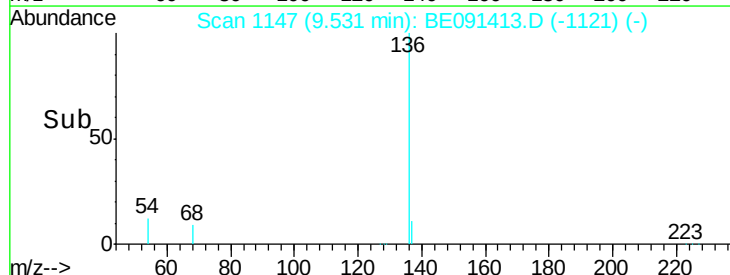
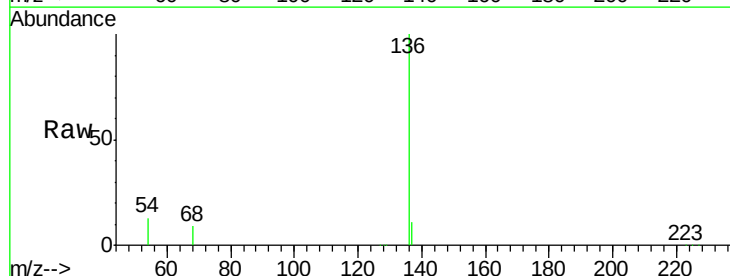
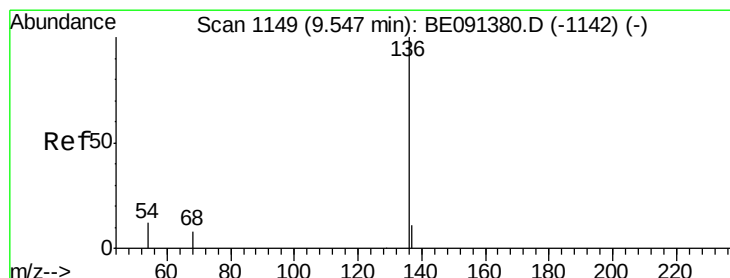
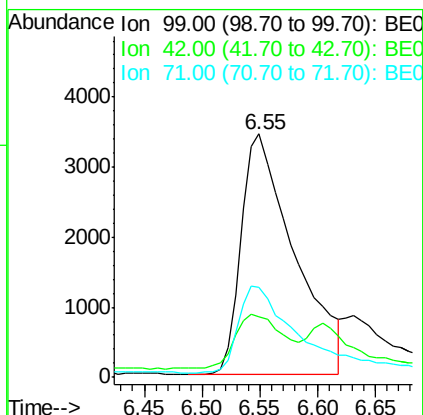
Tot Ion: 99 Resp: 10923

Ion Ratio Lower Upper

99 100

42 21.6 13.3 19.9#

71 44.3 25.6 38.4#



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Tgt Ion: 136 Resp: 213677

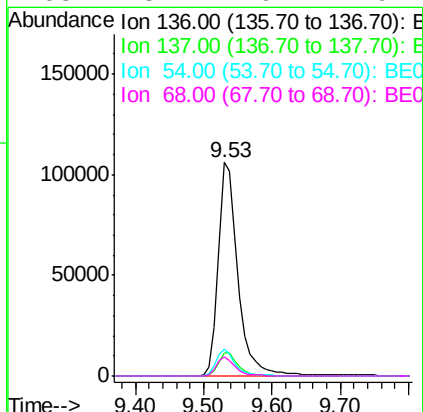
Ion Ratio Lower Upper

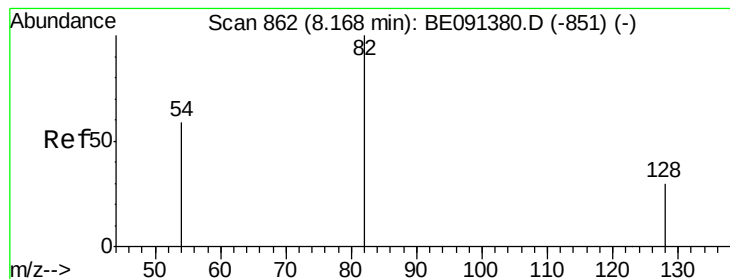
136 100

137 10.9 8.7 13.1

54 12.5 9.3 13.9

68 8.7 6.7 10.1





#5

Nitrobenzene-d5

Concen: 1.11 ng

RT: 8.15 min Scan# 858

Delta R.T. -0.02 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

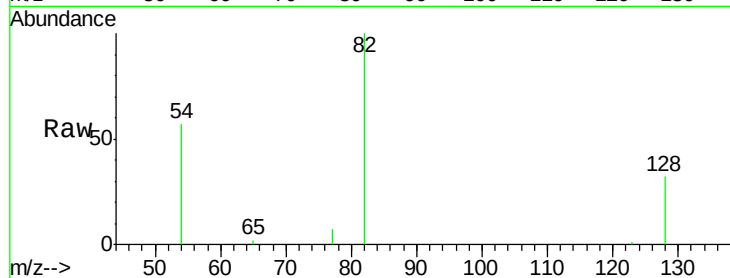
Tot Ion: 82 Resp: 12502

Ion Ratio Lower Upper

82 100

128 32.2 25.0 37.4

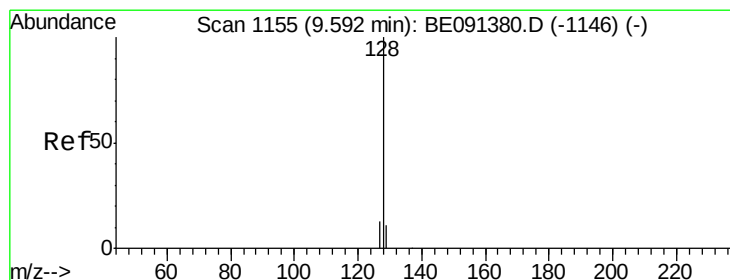
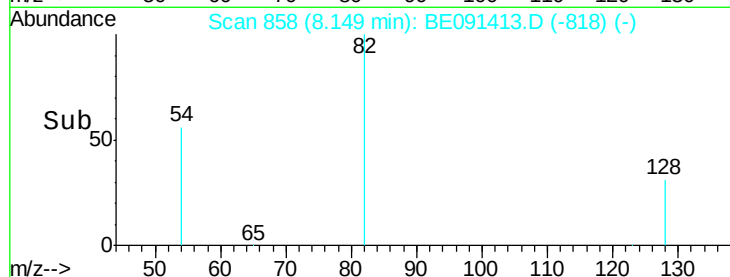
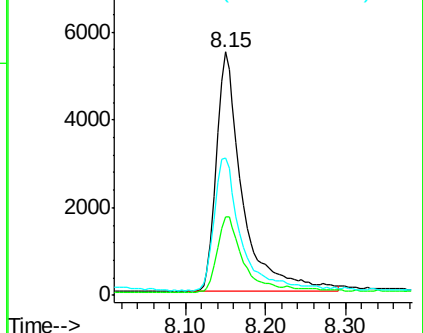
54 56.5 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE091413.D (-818) (-)

Ion 128.00 (127.70 to 128.70): BE091413.D (-818) (-)

Ion 54.00 (53.70 to 54.70): BE091413.D (-818) (-)



#6

Naphthalene

Concen: 0.94 ng

RT: 9.58 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

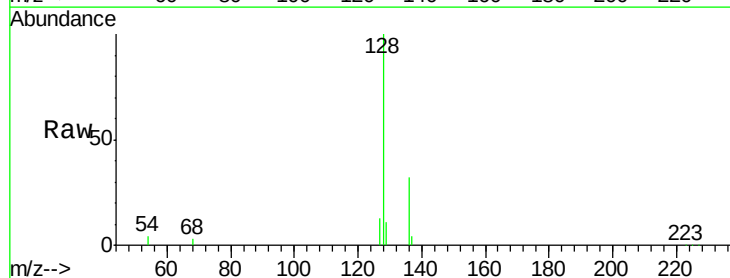
Tgt Ion: 128 Resp: 45192

Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

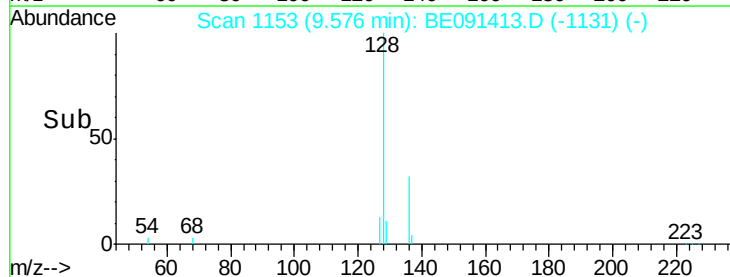
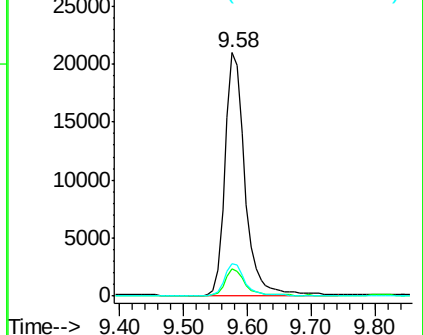
127 13.4 10.5 15.7

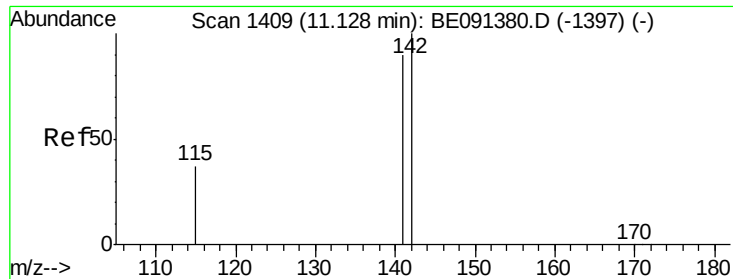


Abundance Ion 128.00 (127.70 to 128.70): BE091413.D (-1131) (-)

Ion 129.00 (128.70 to 129.70): BE091413.D (-1131) (-)

Ion 127.00 (126.70 to 127.70): BE091413.D (-1131) (-)





#7

2-Methylnaphthalene

Concen: 1.03 ng

RT: 11.11 min Scan# 1405

Delta R.T. -0.02 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

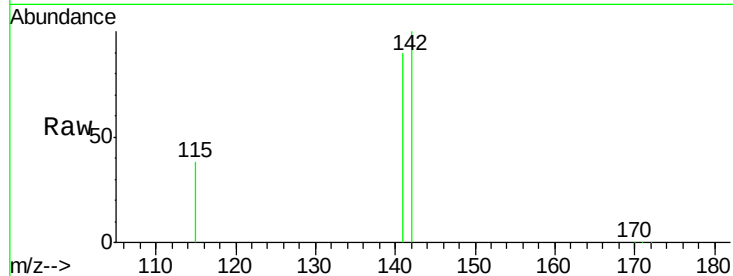
Tot Ion:142 Resp: 27722

Ion Ratio Lower Upper

142 100

141 90.0 72.3 108.5

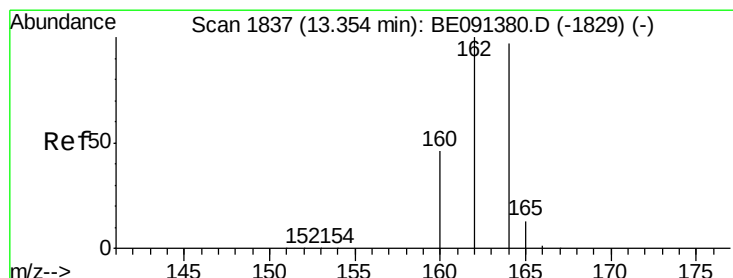
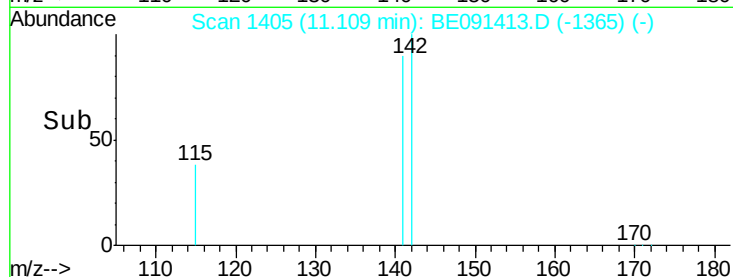
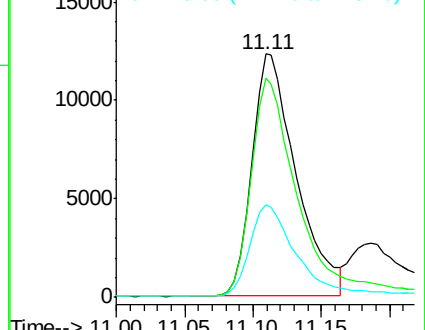
115 38.3 30.5 45.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

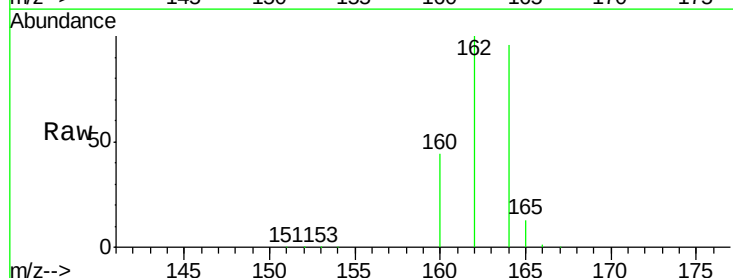
Tgt Ion:164 Resp: 139454

Ion Ratio Lower Upper

164 100

162 104.2 82.2 123.2

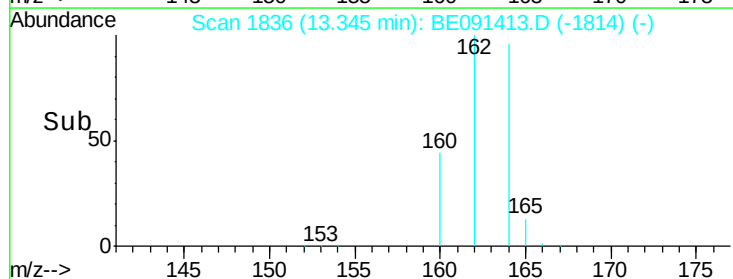
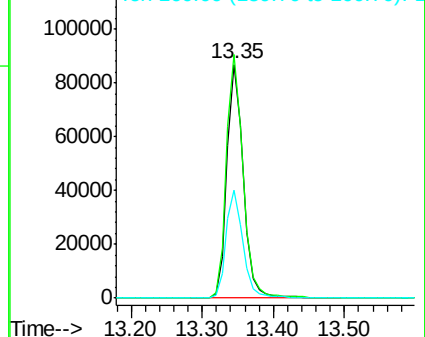
160 46.3 37.8 56.8

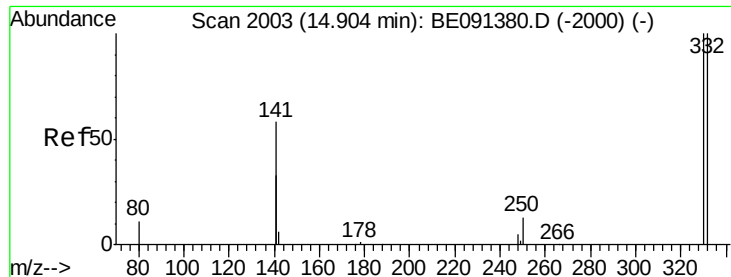


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 1.01 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

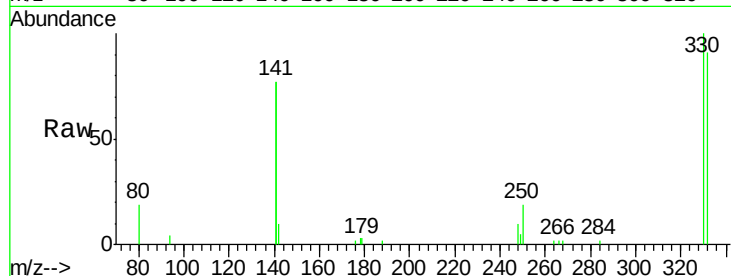
Tot Ion:330 Resp: 4805

Ion Ratio Lower Upper

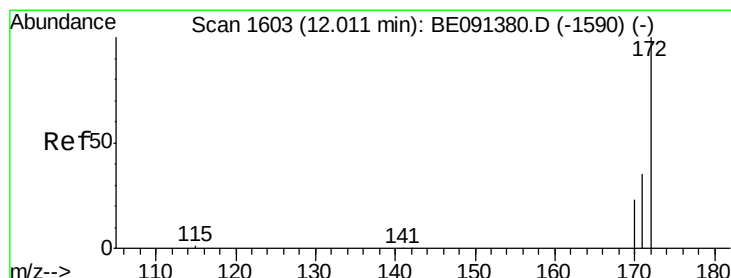
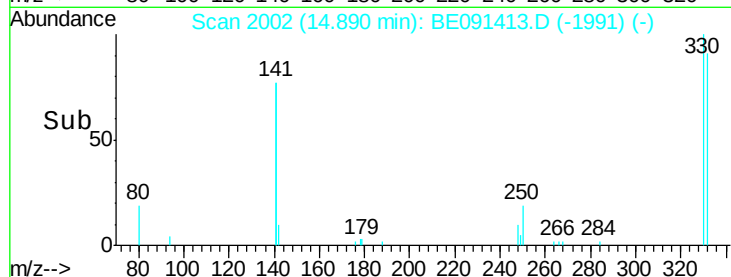
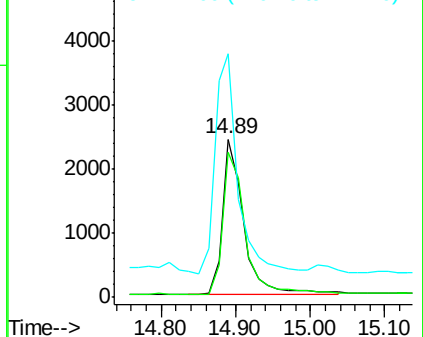
330 100

332 96.0 78.8 118.2

141 151.3 105.1 157.7



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: 0.96 ng

RT: 12.00 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

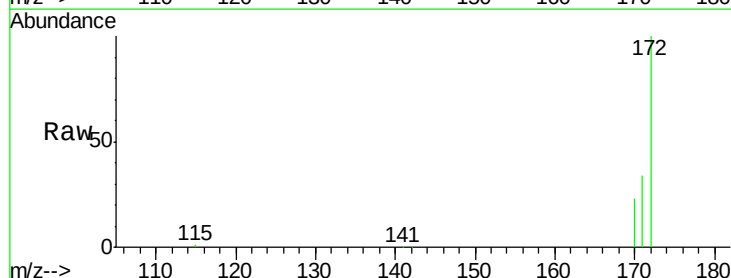
Tgt Ion:172 Resp: 34721

Ion Ratio Lower Upper

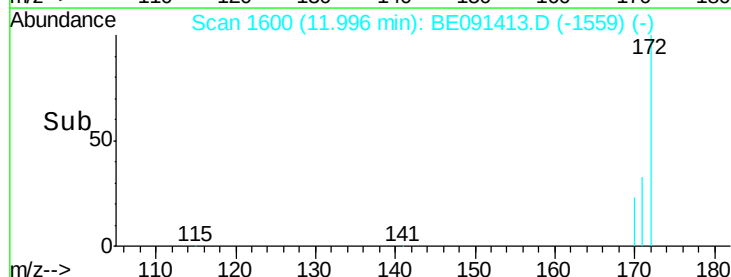
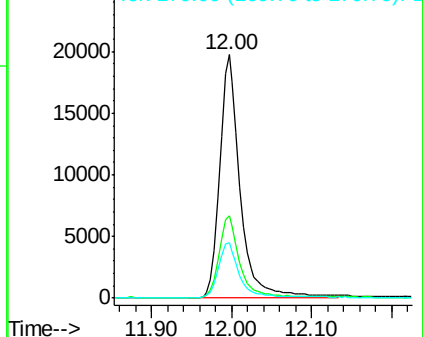
172 100

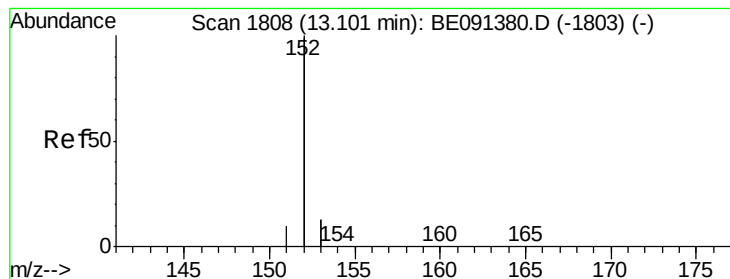
171 33.6 27.8 41.8

170 22.8 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: 1.04 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

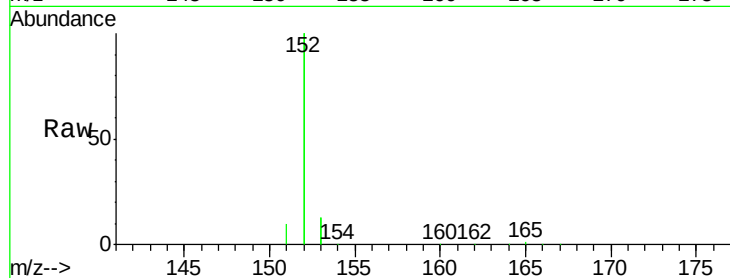
Tot Ion:152 Resp: 216929

Ion Ratio Lower Upper

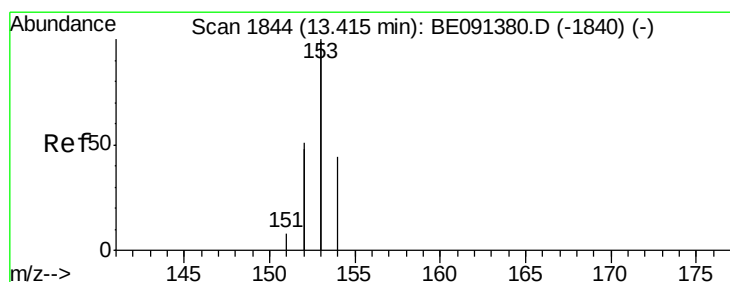
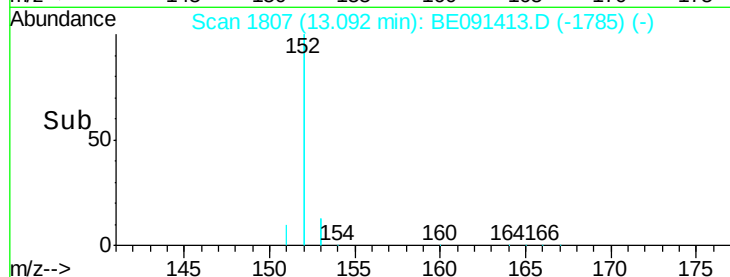
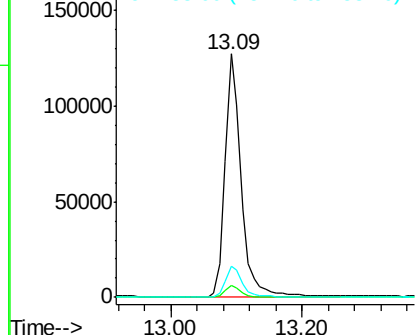
152 100

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: 0.93 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

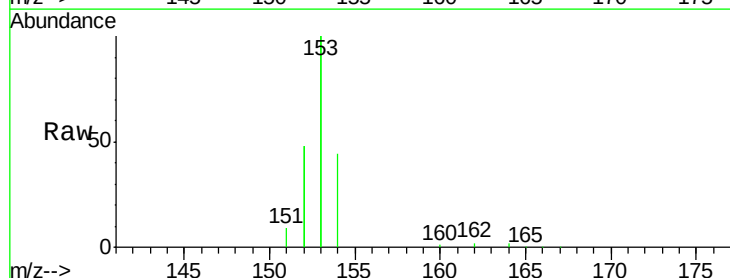
Tgt Ion:154 Resp: 35709

Ion Ratio Lower Upper

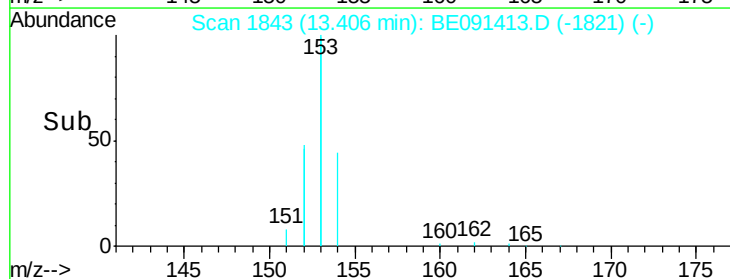
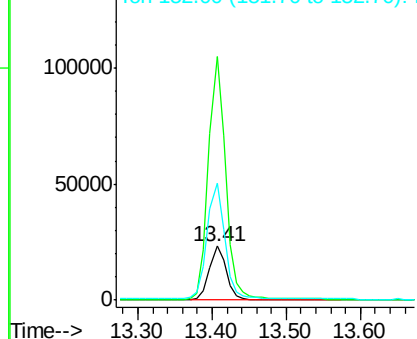
154 100

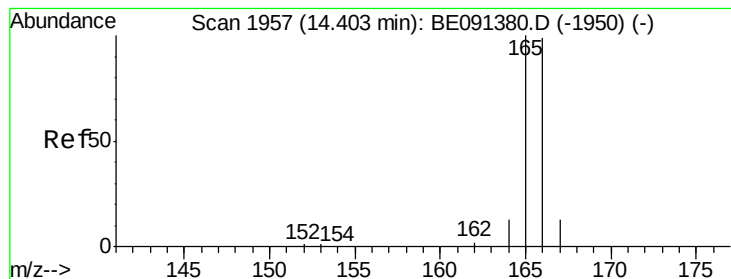
153 458.1 369.8 554.8

152 227.0 194.4 291.6



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: 0.97 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

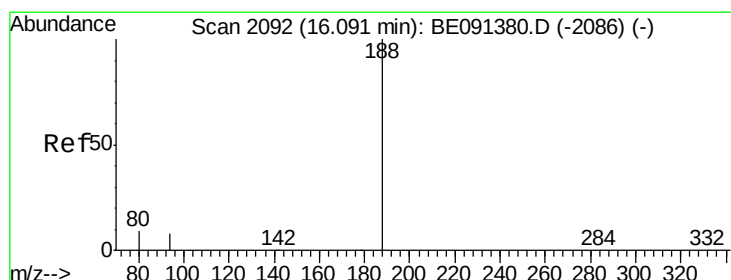
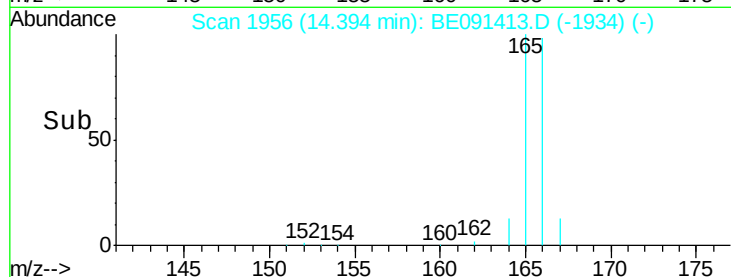
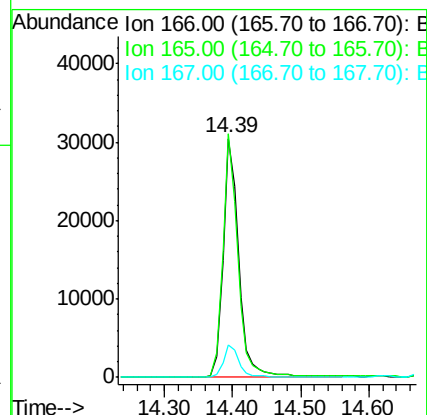
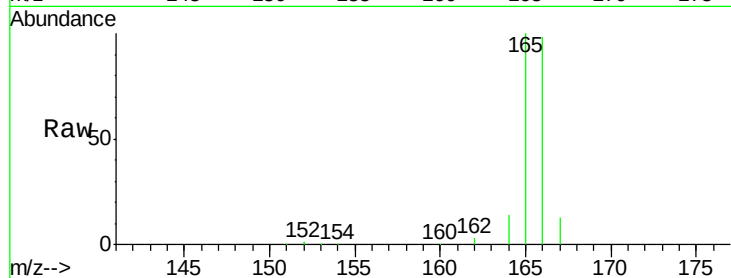
Tot Ion:166 Resp: 48001

Ion Ratio Lower Upper

166 100

165 98.7 79.3 118.9

167 13.5 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

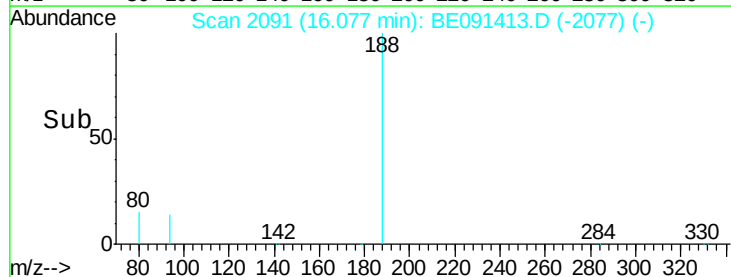
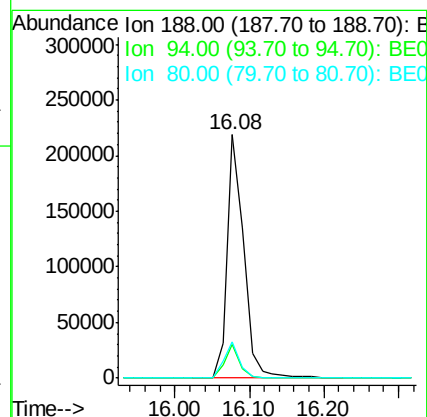
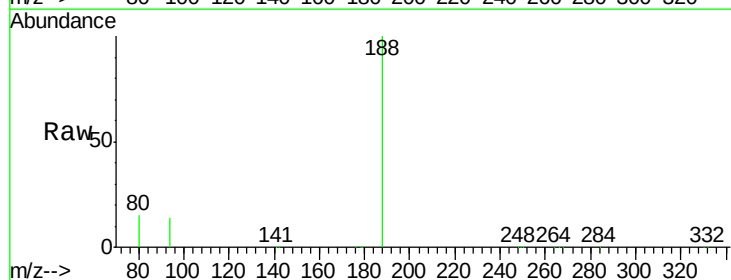
Tgt Ion:188 Resp: 341114

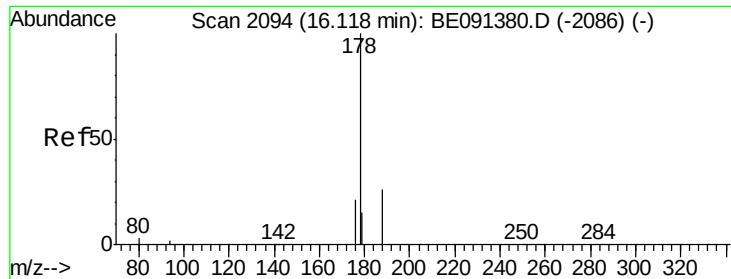
Ion Ratio Lower Upper

188 100

94 13.7 6.6 10.0#

80 15.0 7.0 10.6#





#15

Phenanthrene

Concen: 0.95 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

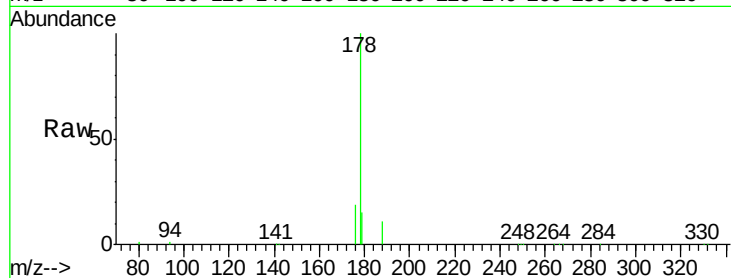
BNA_E

ClientSampleId :

SSTDCCC001

Tot Ion:178 Resp: 84999

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.5	12.7	19.1

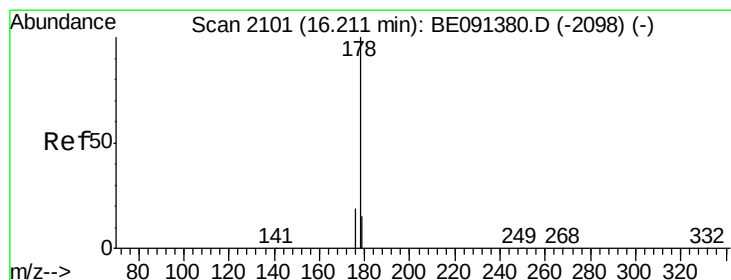
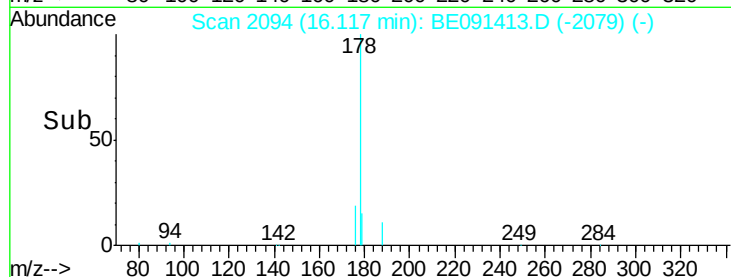
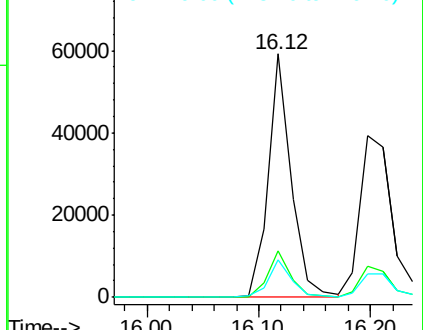


Abundance

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: 1.05 ng

RT: 16.20 min Scan# 2100

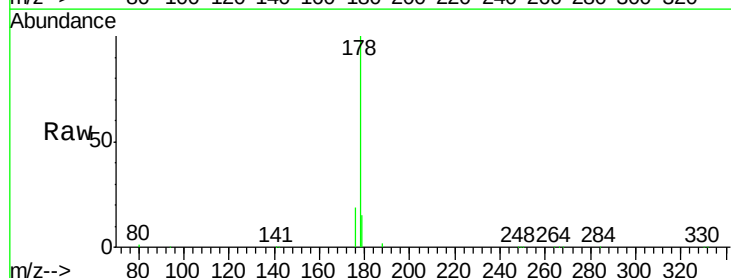
Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Tgt Ion:178 Resp: 78734

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.3	12.1	18.1

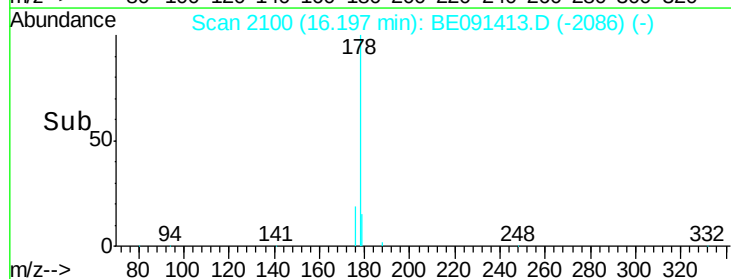
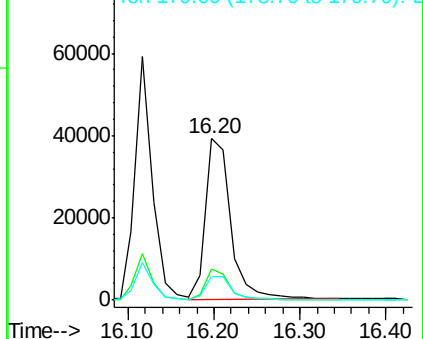


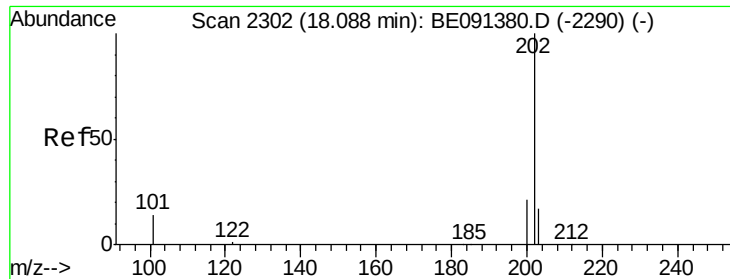
Abundance

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: 1.03 ng

RT: 18.09 min Scan# 2302

Delta R.T. -0.00 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

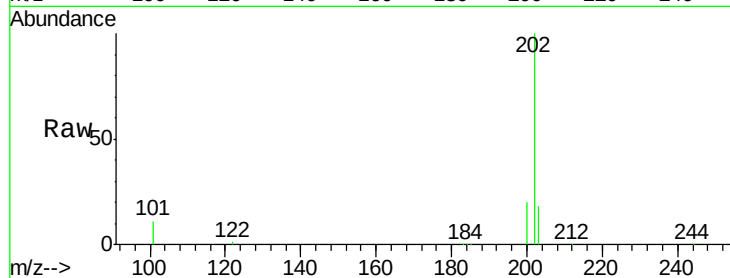
Tot Ion:202 Resp: 87413

Ion Ratio Lower Upper

202 100

101 13.8 10.5 15.7

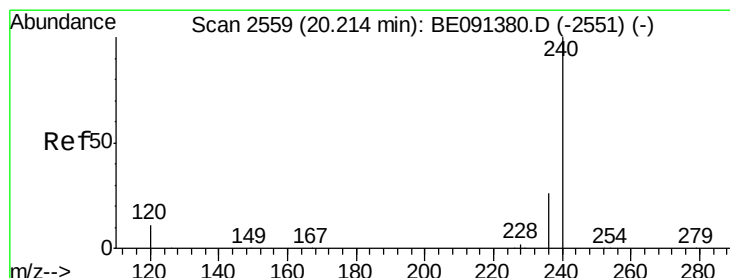
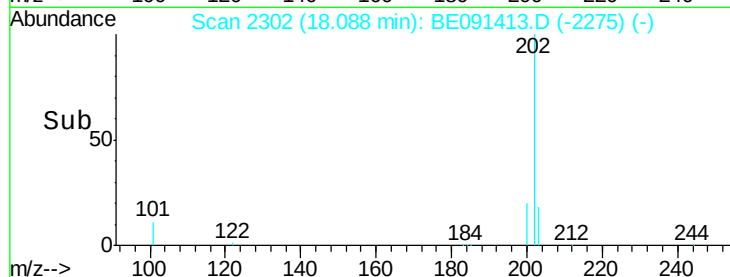
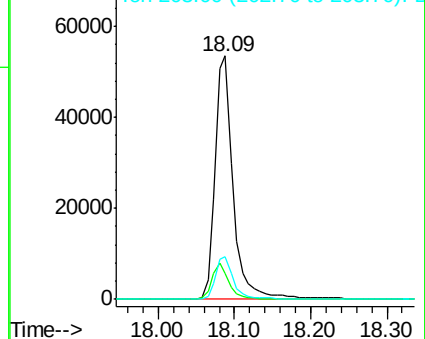
203 17.4 13.9 20.9



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. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

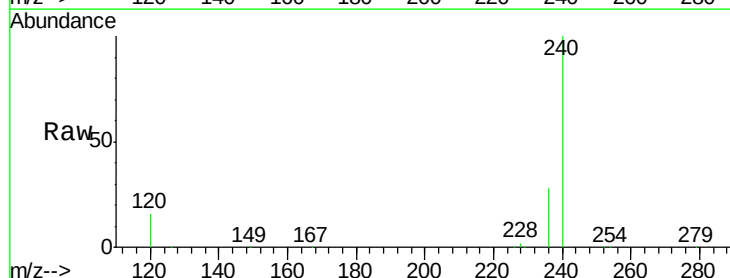
Tgt Ion:240 Resp: 385194

Ion Ratio Lower Upper

240 100

120 16.4 8.9 13.3#

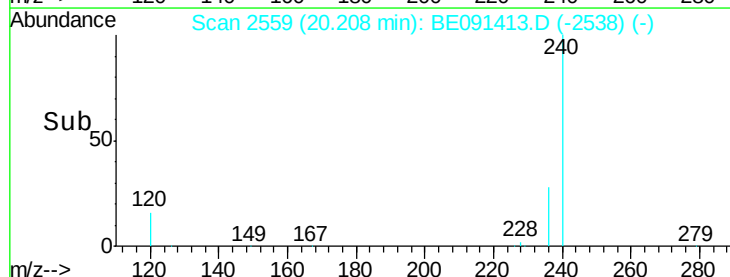
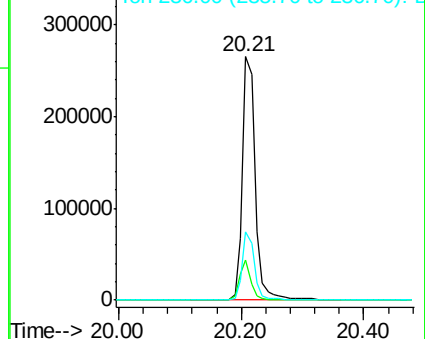
236 27.9 21.0 31.4

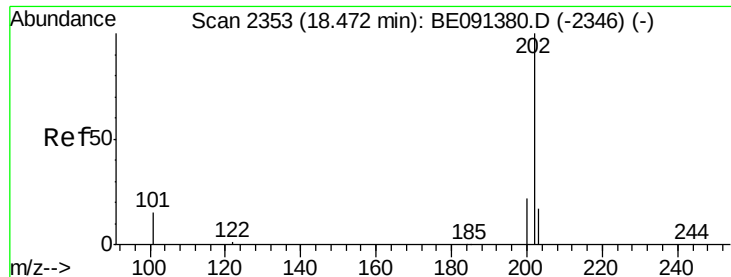


Abundance Ion 240.00 (239.70 to 240.70): E

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# 2353

Delta R.T. -0.00 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

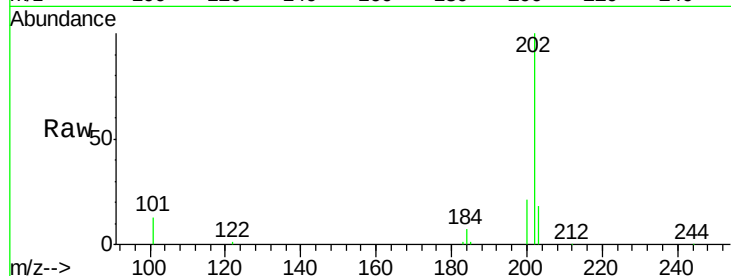
Tot Ion:202 Resp: 91332

Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

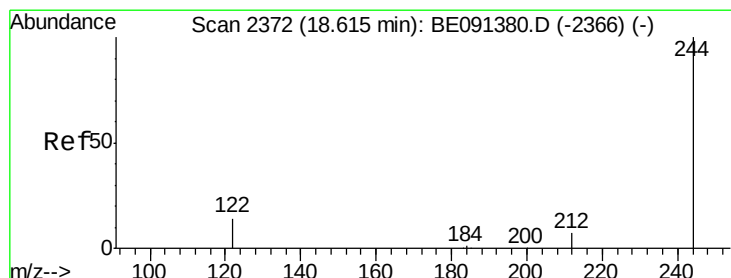
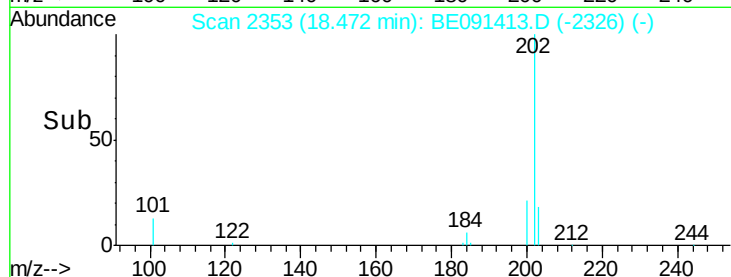
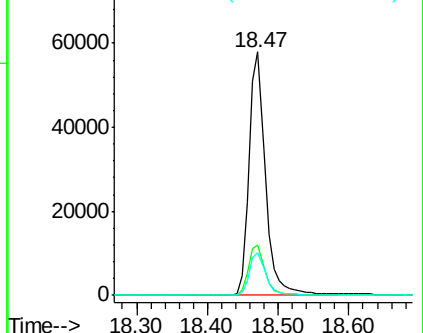
203 17.7 14.0 21.0



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: 1.06 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.00 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

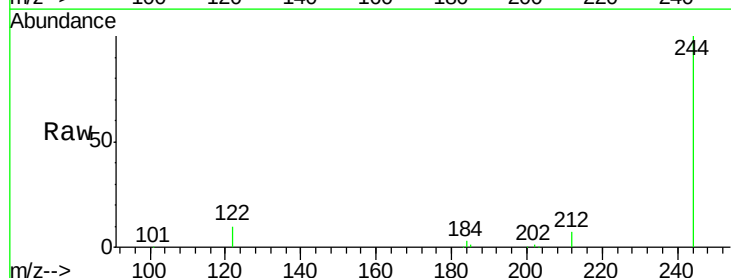
Tgt Ion:244 Resp: 60659

Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

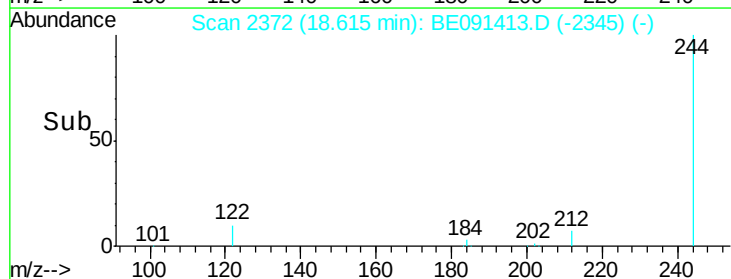
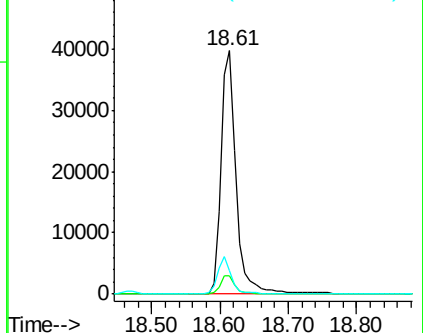
122 9.7 11.0 16.6#

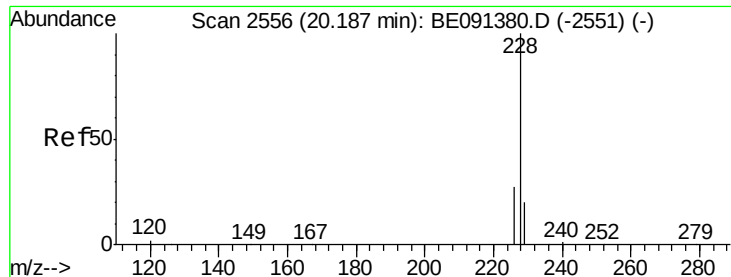


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 1.10 ng

RT: 20.18 min Scan# 2556

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

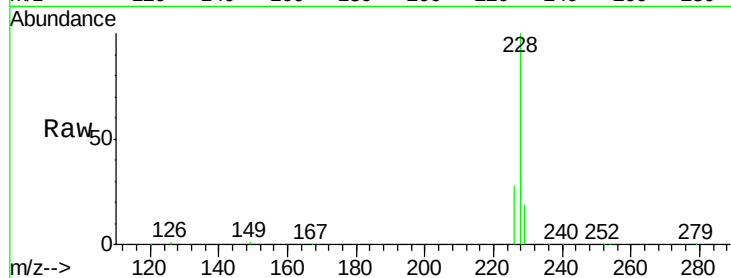
Tot Ion:228 Resp: 82481

Ion Ratio Lower Upper

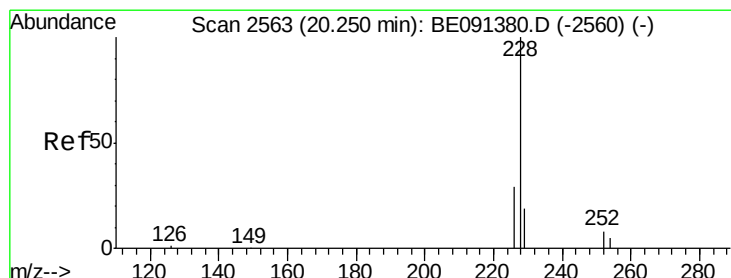
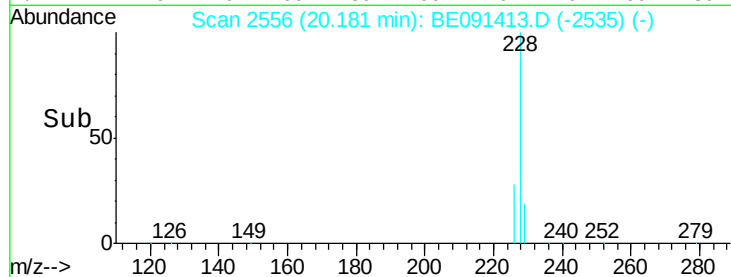
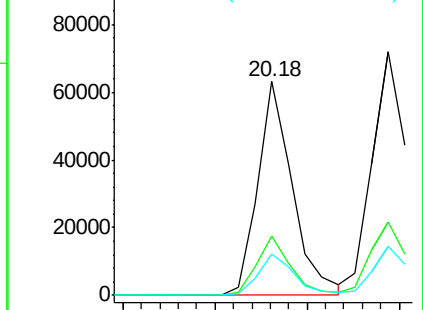
228 100

226 27.7 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: 1.00 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

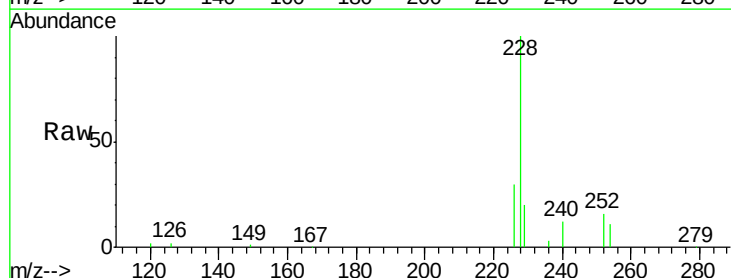
Tgt Ion:228 Resp: 100384

Ion Ratio Lower Upper

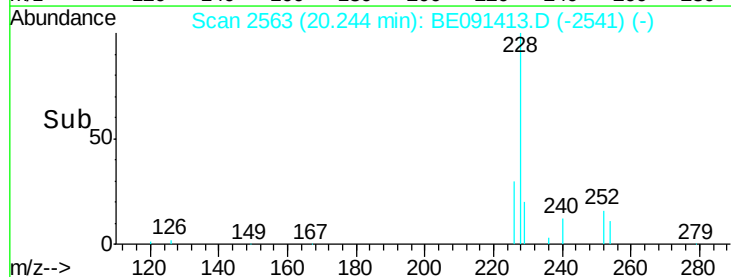
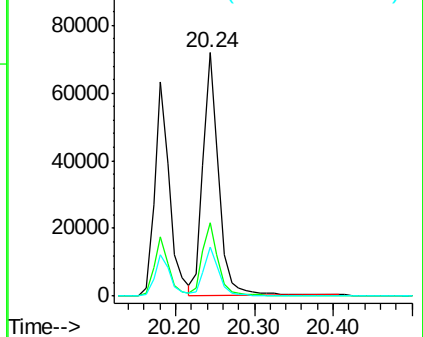
228 100

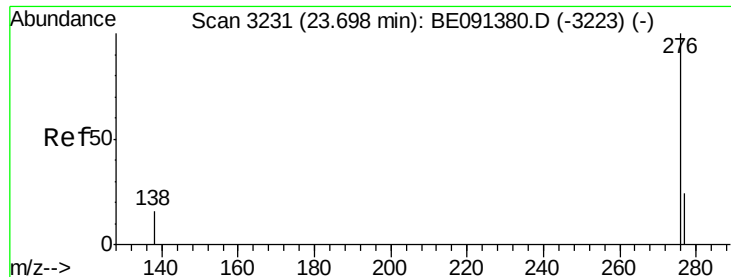
226 30.0 23.4 35.0

229 20.0 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

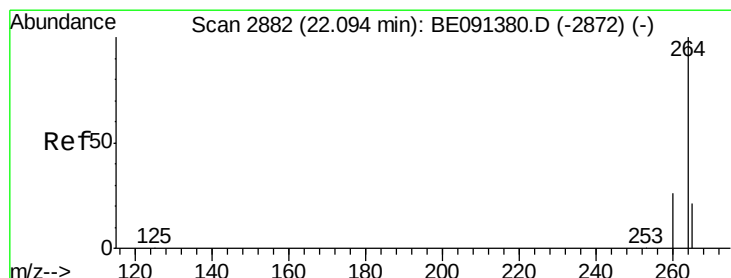
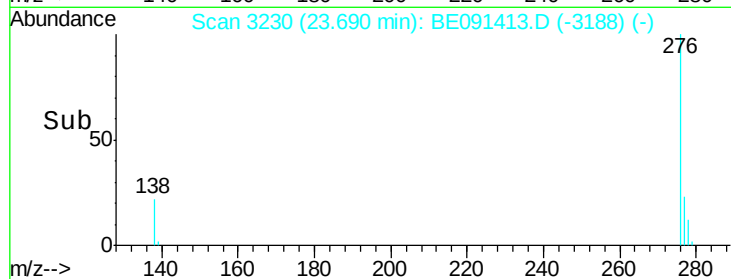
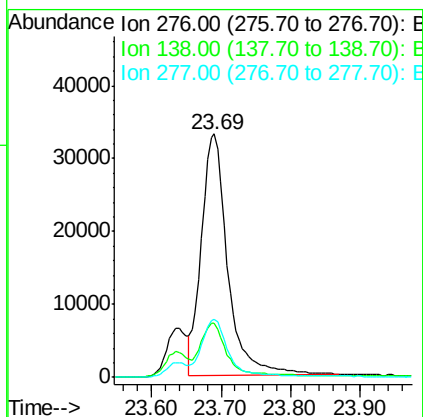
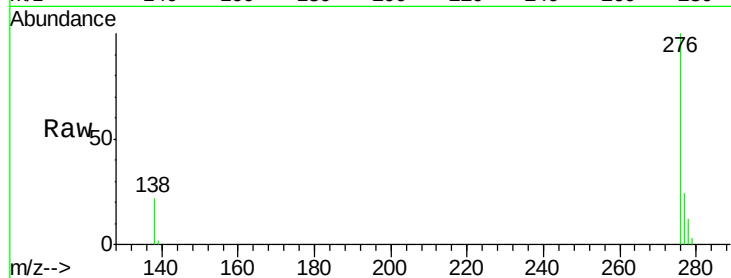




#23
Indeno(1,2,3-cd)pyrene
Concen: 1.12 ng
RT: 23.69 min Scan# 3230
Delta R.T. -0.01 min
Lab File: BE091413.D
Acq: 19 Feb 2016 13:19

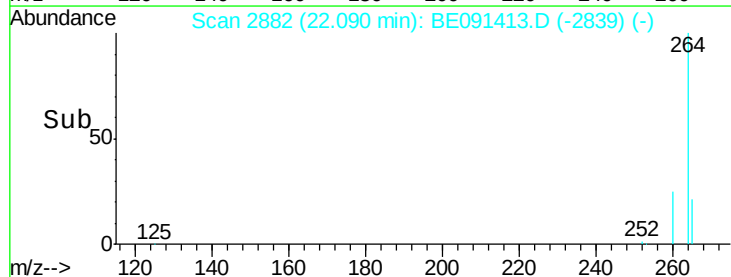
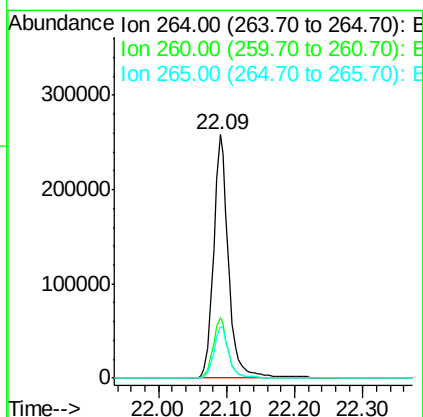
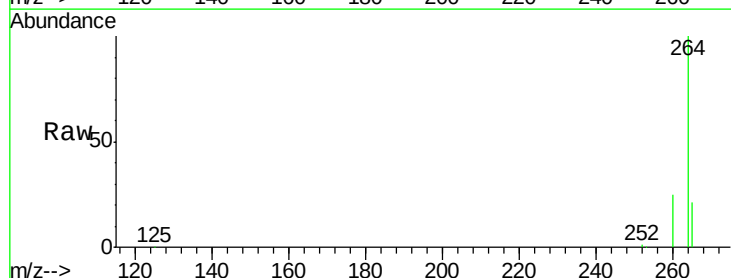
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

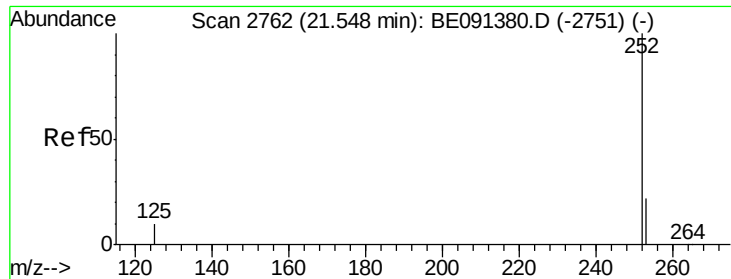
Tot Ion:276 Resp: 87210
Ion Ratio Lower Upper
276 100
138 21.9 16.6 25.0
277 24.1 19.0 28.6



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BE091413.D
Acq: 19 Feb 2016 13:19

Tgt Ion:264 Resp: 393603
Ion Ratio Lower Upper
264 100
260 25.1 20.7 31.1
265 21.4 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 1.00 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

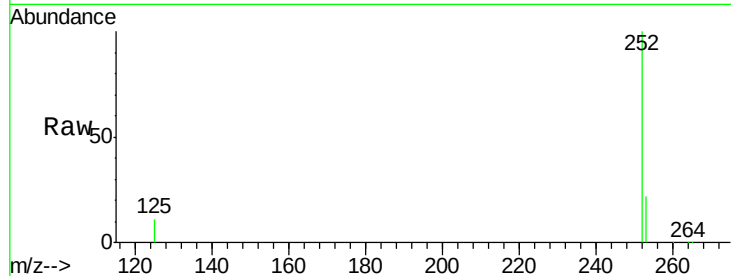
Tot Ion:252 Resp: 85644

Ion Ratio Lower Upper

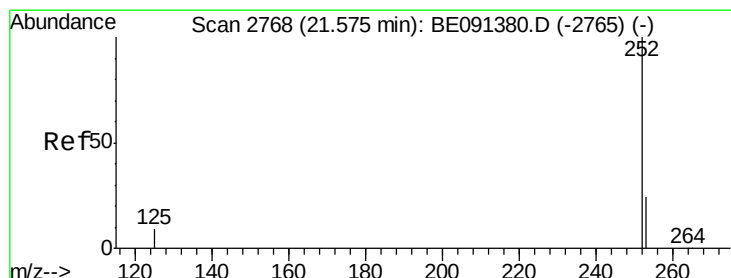
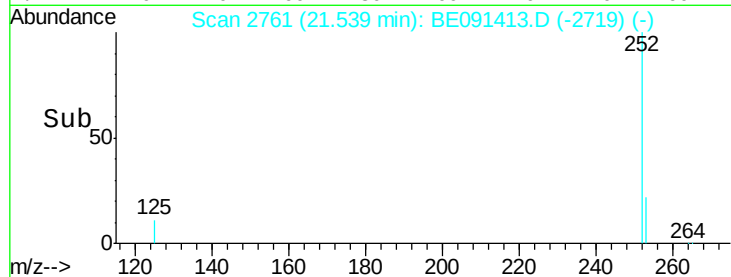
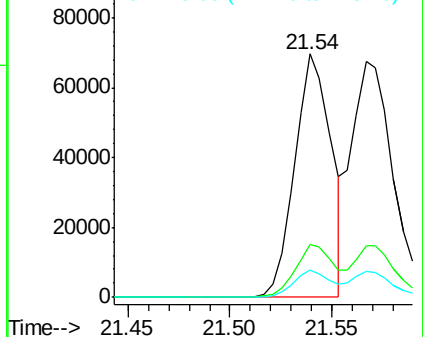
252 100

253 21.9 18.2 27.2

125 11.0 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: 1.06 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

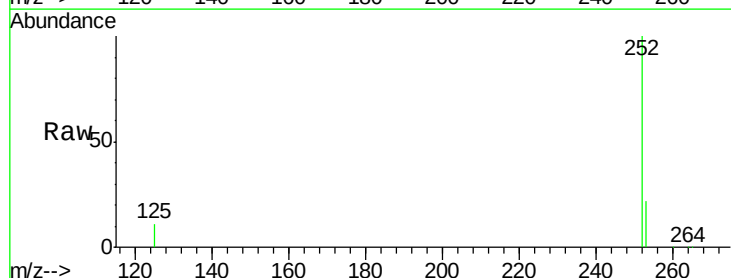
Tgt Ion:252 Resp: 102397

Ion Ratio Lower Upper

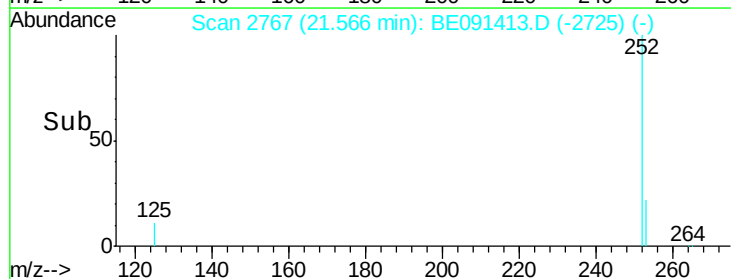
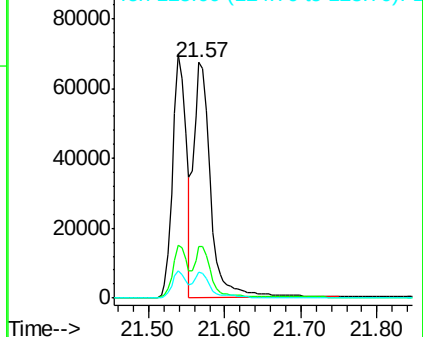
252 100

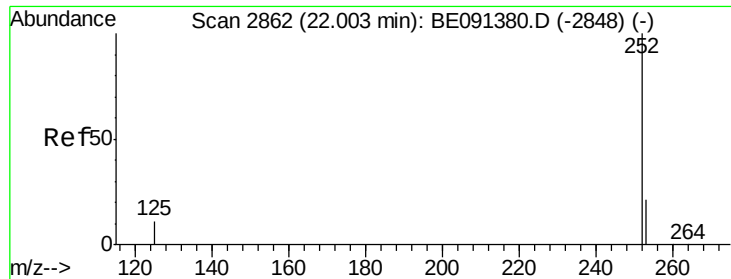
253 21.9 18.1 27.1

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: 1.10 ng

RT: 22.00 min Scan# 2862

Delta R.T. -0.00 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

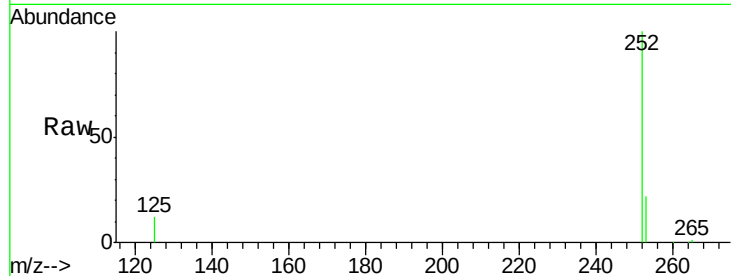
Tot Ion:252 Resp: 87397

Ion Ratio Lower Upper

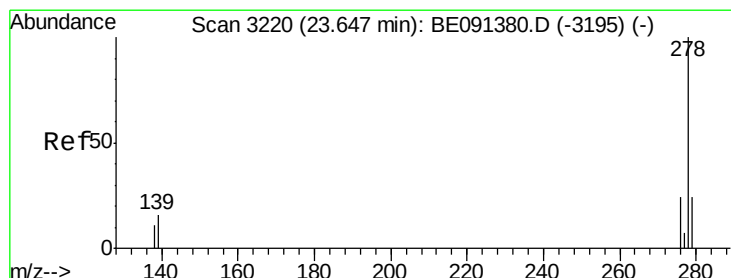
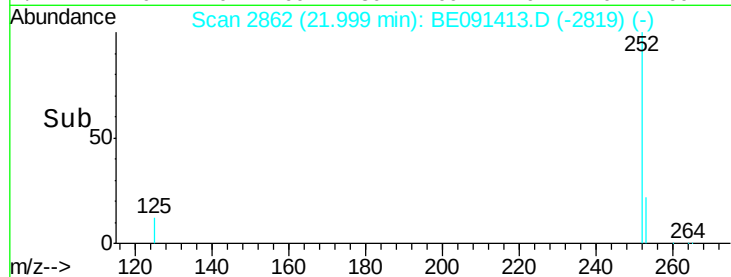
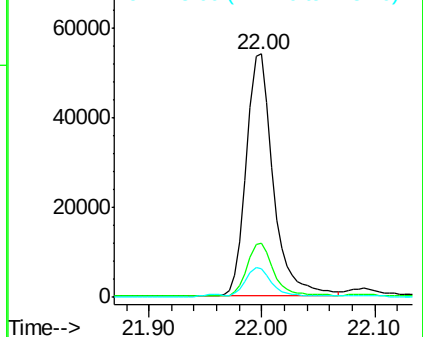
252 100

253 22.5 17.5 26.3

125 11.8 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: 1.11 ng

RT: 23.64 min Scan# 3219

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

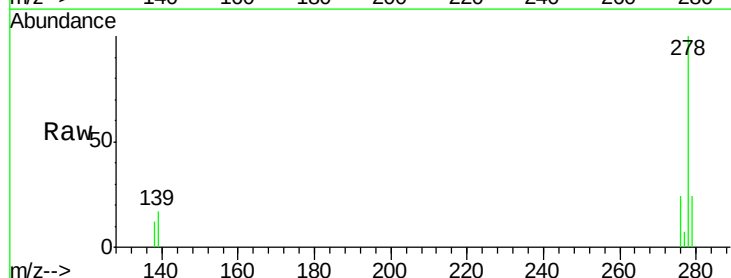
Tgt Ion:278 Resp: 81204

Ion Ratio Lower Upper

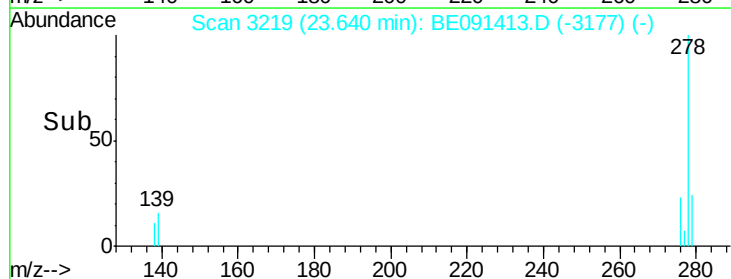
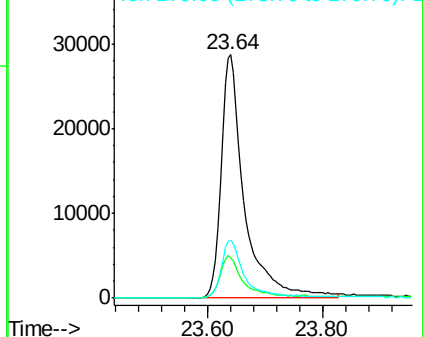
278 100

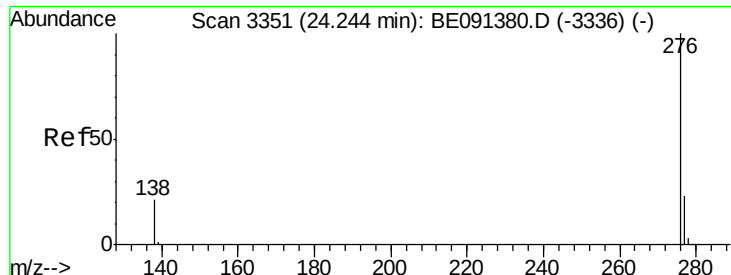
139 16.7 13.0 19.4

279 23.9 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: 1.05 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.01 min

Lab File: BE091413.D

Acq: 19 Feb 2016 13:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

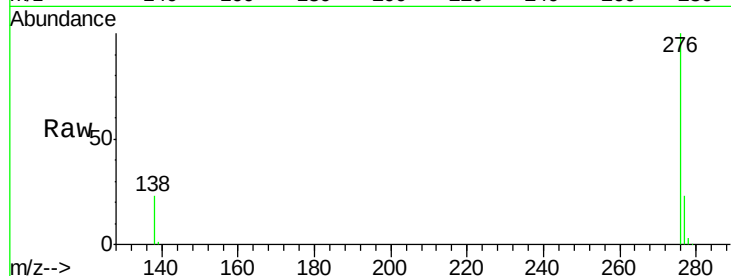
Tot Ion:276 Resp: 91482

Ion Ratio Lower Upper

276 100

277 23.1 18.9 28.3

138 22.9 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

