

Data Path : Z:\HPCHEM1\BNA E\DATA\BE011516\
 Data File : BE091372.D
 Acq On : 15 Jan 2016 9:38
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Jan 16 05:03:17 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 15 15:14:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	24505	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	115297	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	58647	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	153229	5.00	ng	0.00
18) Chrysene-d12	20.21	240	171303	5.00	ng	0.00
24) Perylene-d12	22.10	264	145004	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.93	112	4130	1.50	ng	-0.01
3) Phenol-d6	6.56	99	5168	1.17	ng	0.00
5) Nitrobenzene-d5	8.16	82	6654	0.98	ng	0.00
9) 2,4,6-Tribromophenol	14.89	330	1169	1.03	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	13692	1.03	ng	0.00
20) Terphenyl-d14	18.62	244	18626	1.03	ng	0.00

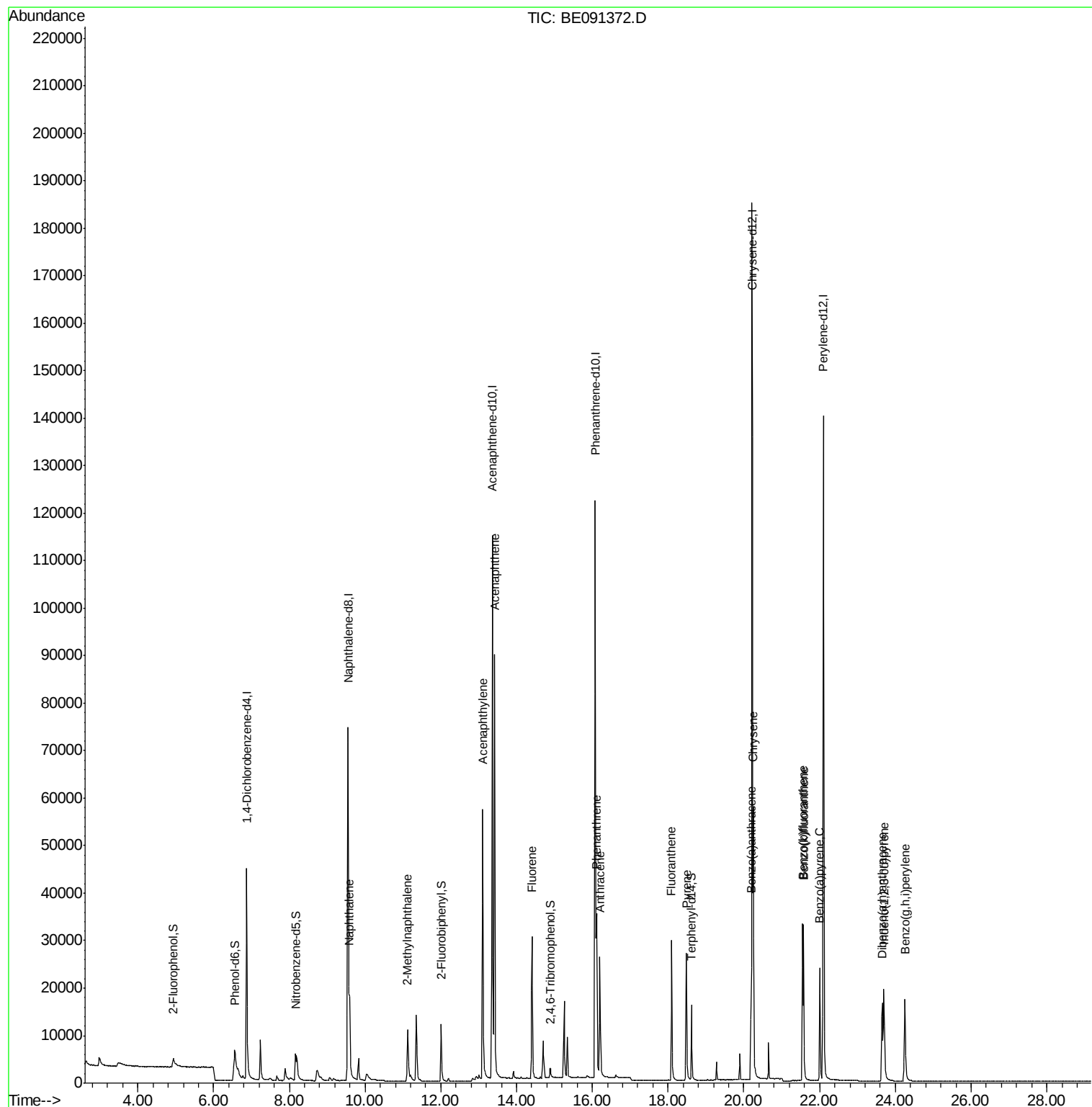
Target Compounds				Qvalue		
6) Naphthalene	9.59	128	24885	1.01	ng	100
7) 2-Methylnaphthalene	11.12	142	10418	1.01	ng	95
11) Acenaphthylene	13.10	152	83571	0.99	ng	100
12) Acenaphthene	13.42	154	16292	0.98	ng	83
13) Fluorene	14.40	166	19921	0.97	ng	97
15) Phenanthrene	16.11	178	39336	1.04	ng	100
16) Anthracene	16.20	178	30447	1.03	ng	100
17) Fluoranthene	18.10	202	31910	1.03	ng	99
19) Pyrene	18.48	202	27676	1.00	ng	99
21) Benzo(a)anthracene	20.19	228	26321	1.04	ng	99
22) Chrysene	20.25	228	42168	1.01	ng	99
23) Indeno(1,2,3-cd)pyrene	23.70	276	28185	0.98	ng	96
25) Benzo(b)fluoranthene	21.55	252	28966	1.03	ng	100
26) Benzo(k)fluoranthene	21.57	252	34388	1.05	ng	99
27) Benzo(a)pyrene	22.00	252	26520	0.97	ng	98
28) Dibenzo(a,h)anthracene	23.65	278	23065	1.08	ng	100
29) Benzo(g,h,i)perylene	24.25	276	27457	1.06	ng	98

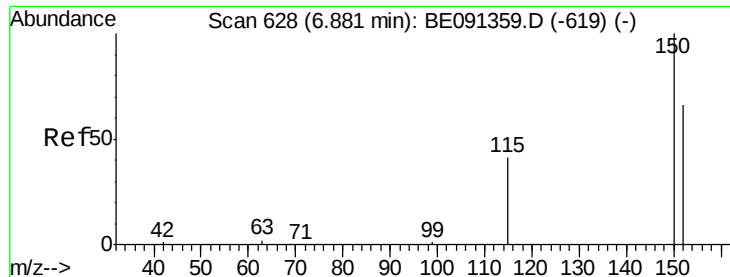
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

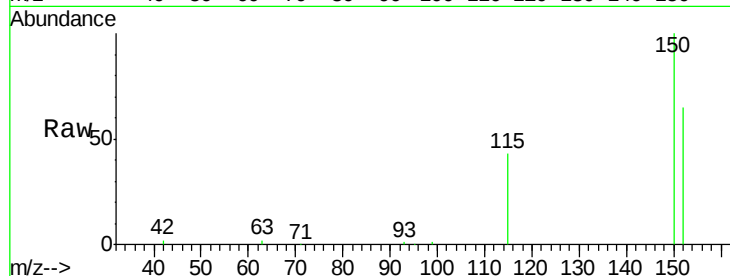
Tot Ion:152 Resp: 24505

Ion Ratio Lower Upper

152 100

150 153.1 121.6 182.4

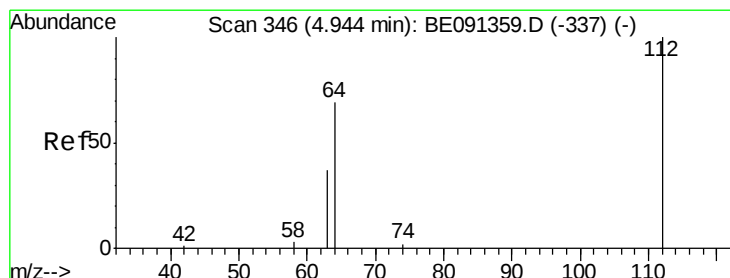
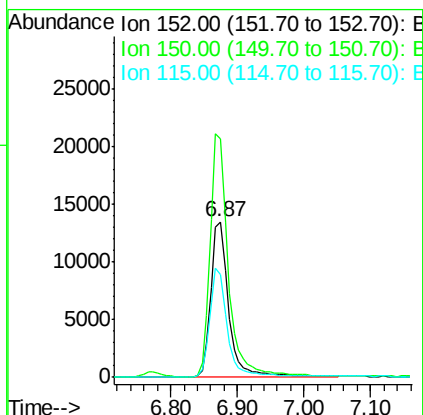
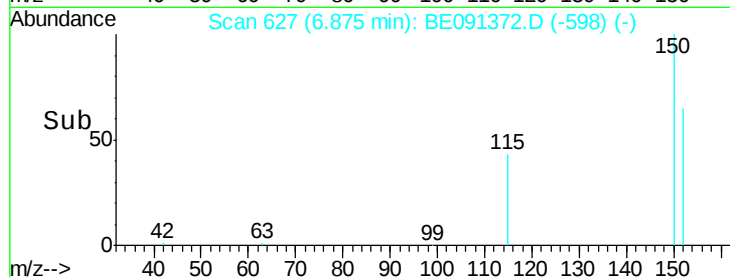
115 65.8 50.6 75.8



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: 1.50 ng

RT: 4.93 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

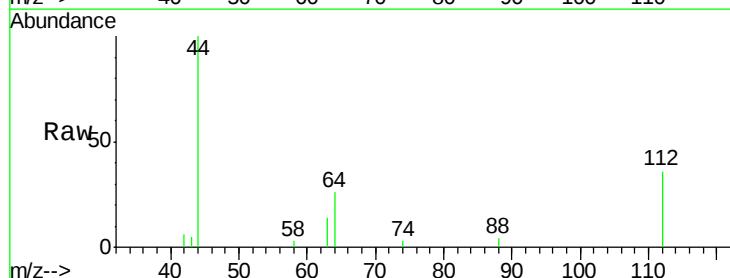
Tgt Ion:112 Resp: 4130

Ion Ratio Lower Upper

112 100

64 72.2 57.4 86.0

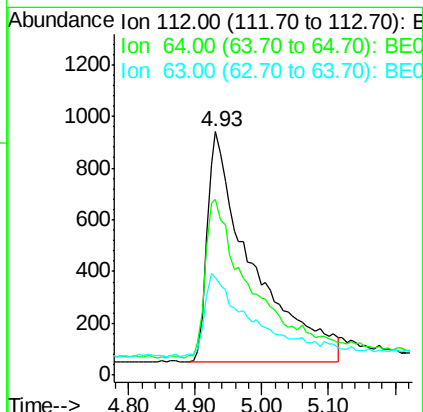
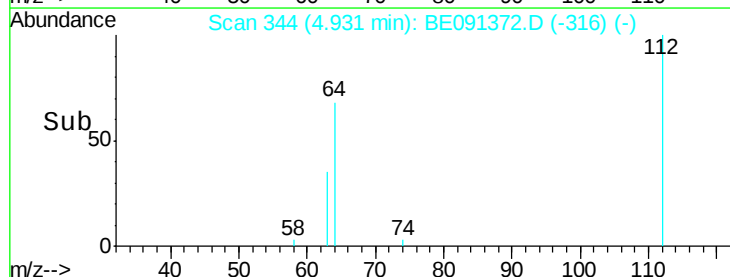
63 37.3 32.2 48.2

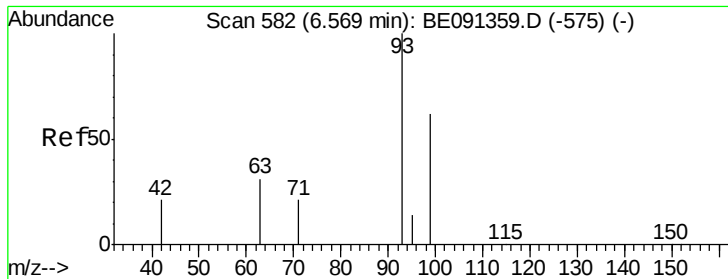


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.17 ng

RT: 6.56 min Scan# 581

Delta R.T. -0.01 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

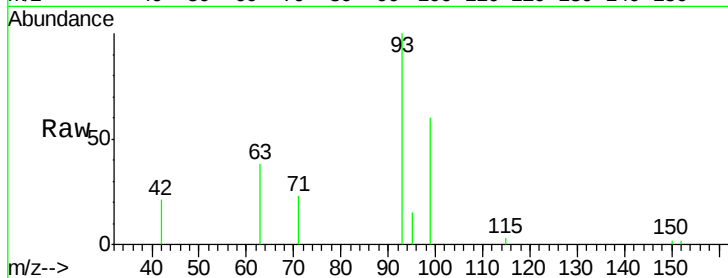
Tot Ion: 99 Resp: 5168

Ion Ratio Lower Upper

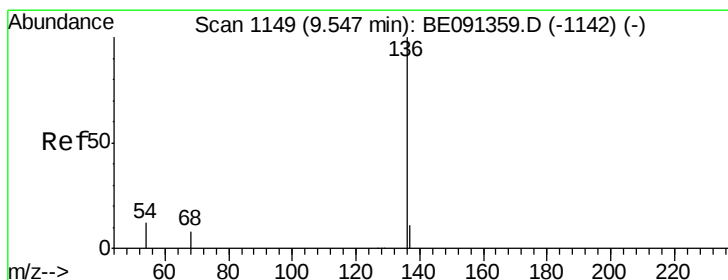
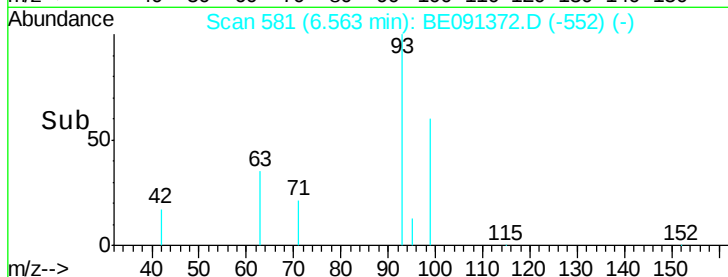
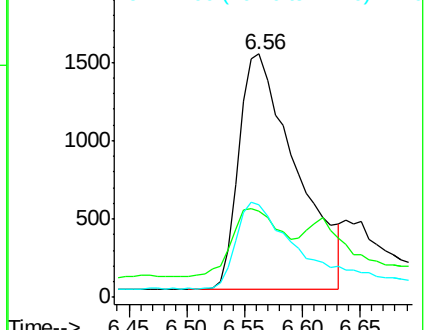
99 100

42 24.2 22.9 34.3

71 45.0 35.4 53.2



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Tgt Ion: 136 Resp: 115297

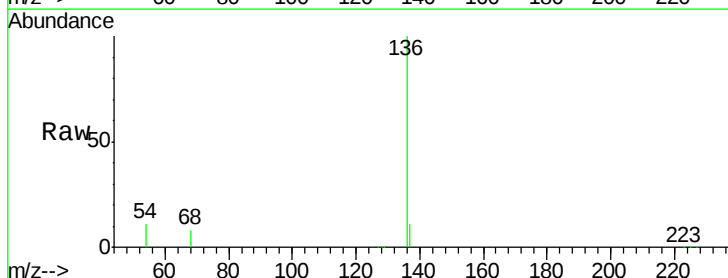
Ion Ratio Lower Upper

136 100

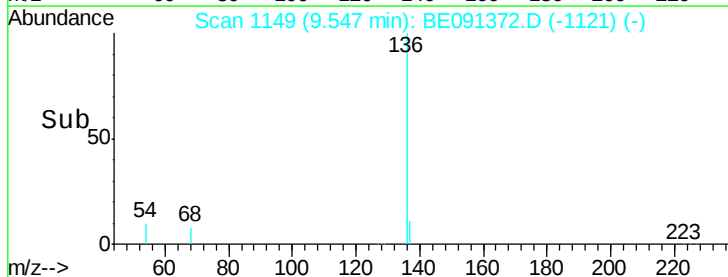
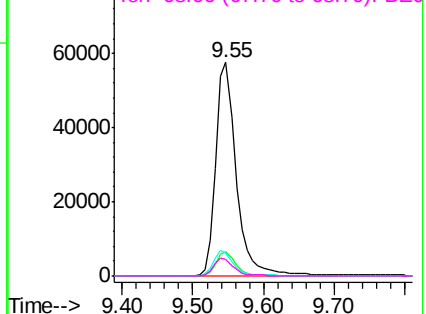
137 11.2 8.7 13.1

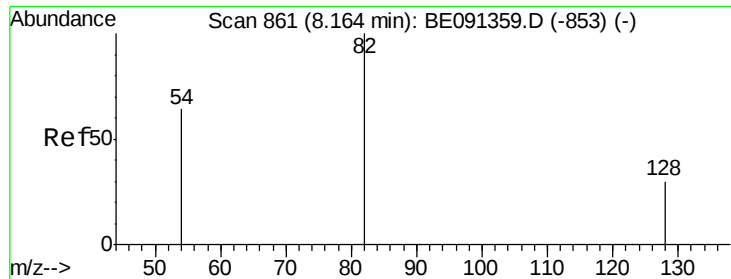
54 10.6 9.8 14.6

68 7.7 6.6 10.0



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: 0.98 ng

RT: 8.16 min Scan# 860

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

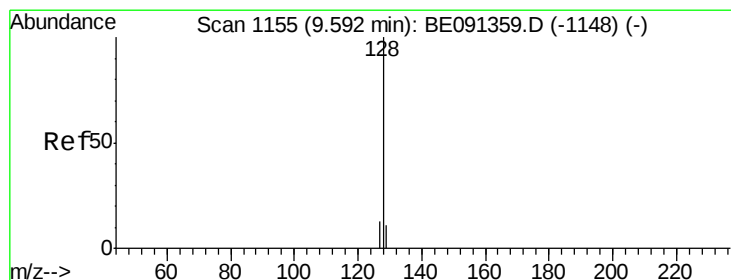
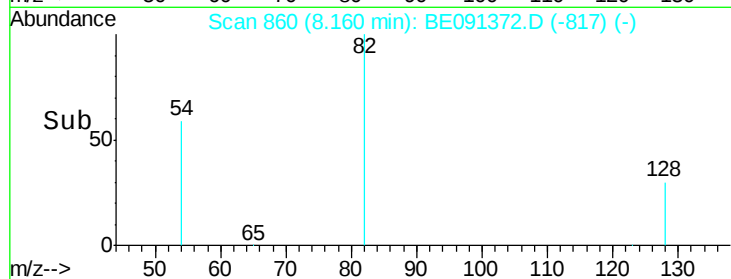
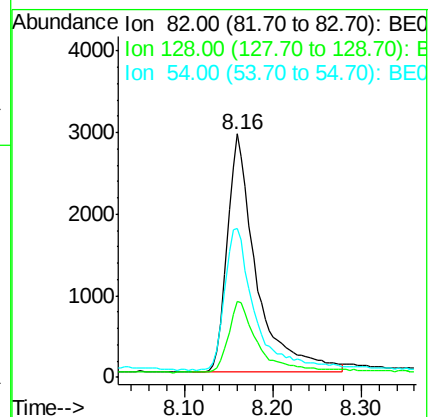
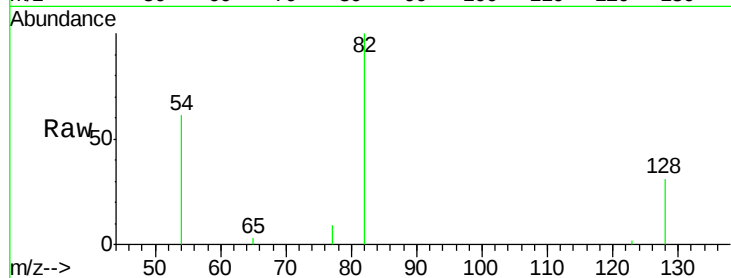
Tot Ion: 82 Resp: 6654

Ion Ratio Lower Upper

82 100

128 31.4 24.6 36.8

54 61.1 52.7 79.1



#6

Naphthalene

Concen: 1.01 ng

RT: 9.59 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

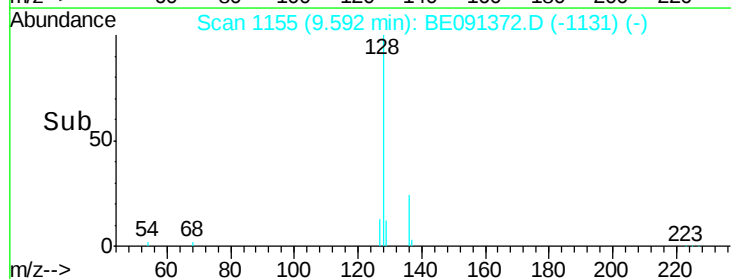
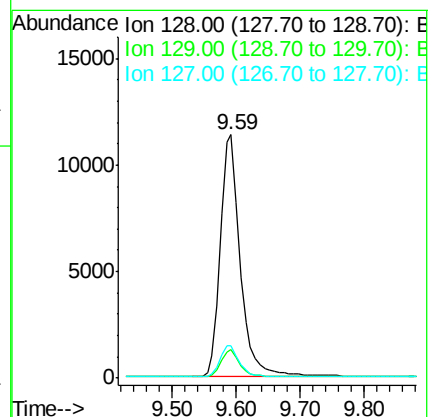
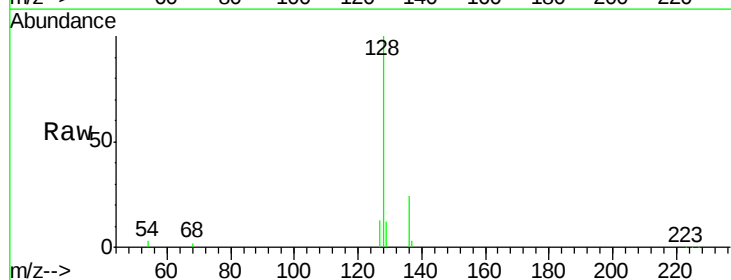
Tgt Ion: 128 Resp: 24885

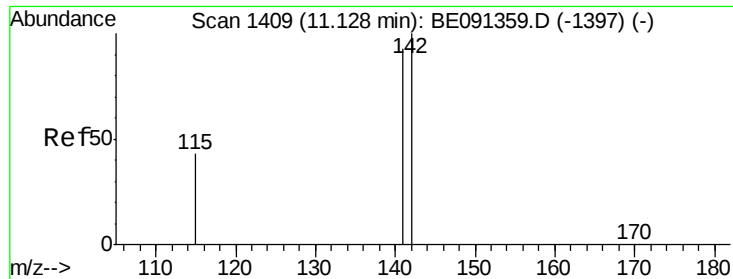
Ion Ratio Lower Upper

128 100

129 11.7 9.3 13.9

127 13.3 10.6 15.8





#7

2-Methylnaphthalene

Concen: 1.01 ng

RT: 11.12 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

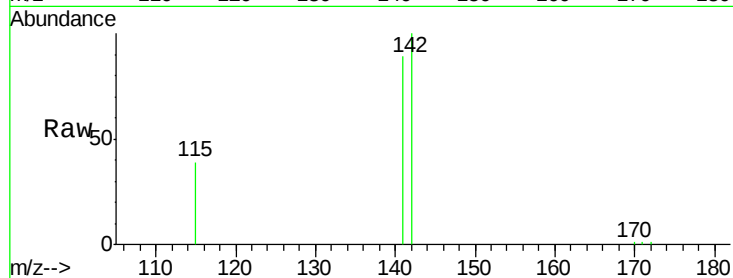
Tot Ion:142 Resp: 10418

Ion Ratio Lower Upper

142 100

141 89.2 74.5 111.7

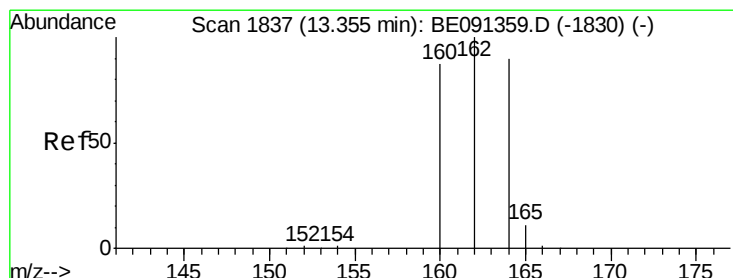
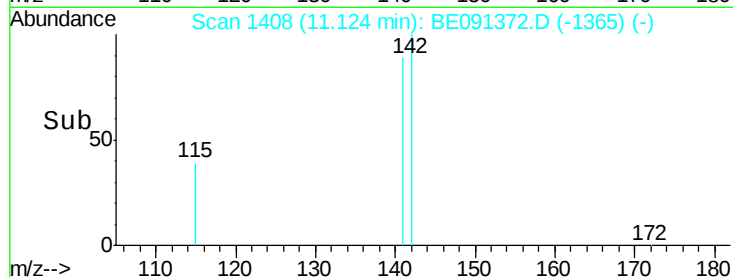
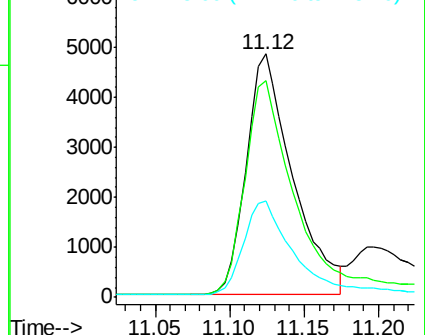
115 39.4 35.2 52.8



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: 13.36 min Scan# 1837

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

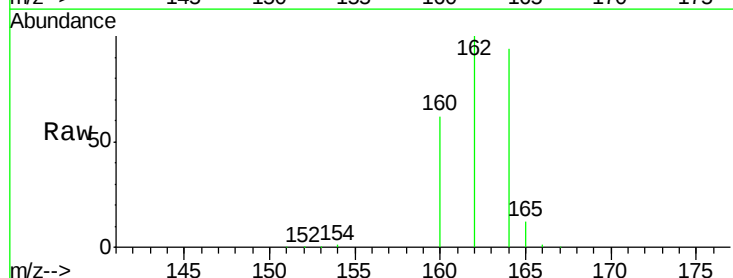
Tgt Ion:164 Resp: 58647

Ion Ratio Lower Upper

164 100

162 105.9 88.5 132.7

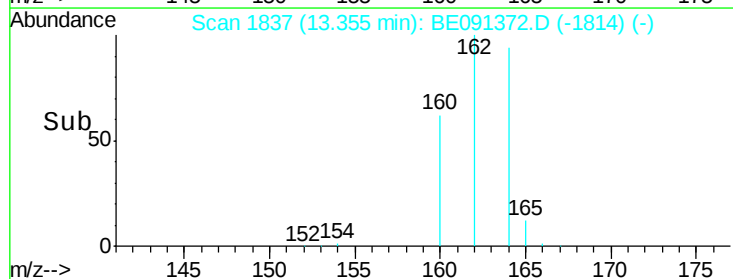
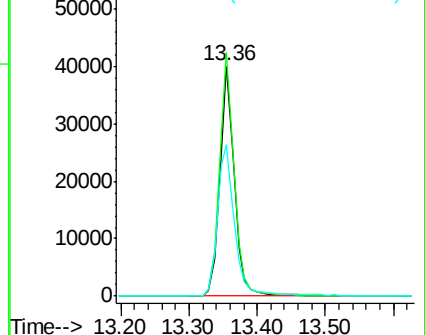
160 65.7 76.7 115.1#

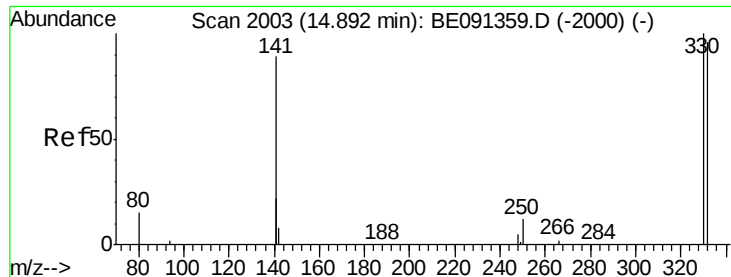


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 1.03 ng

RT: 14.89 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

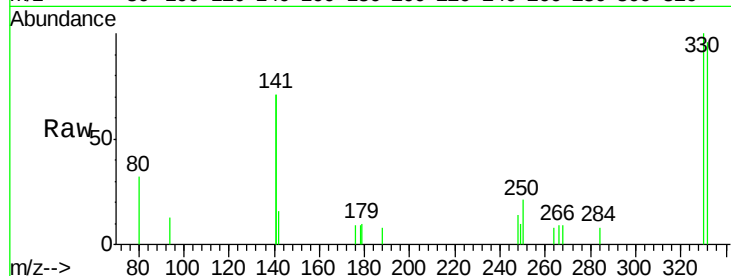
Tot Ion:330 Resp: 1169

Ion Ratio Lower Upper

330 100

332 92.3 78.6 118.0

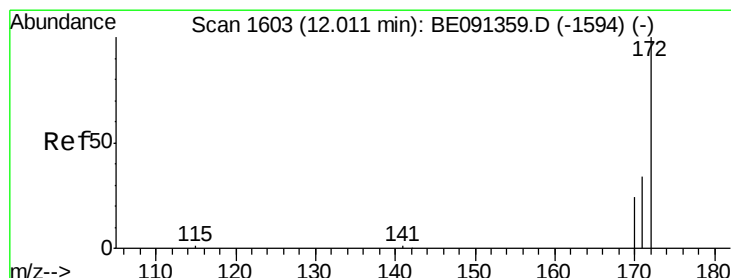
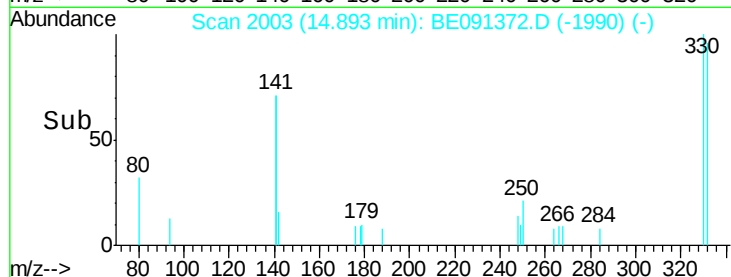
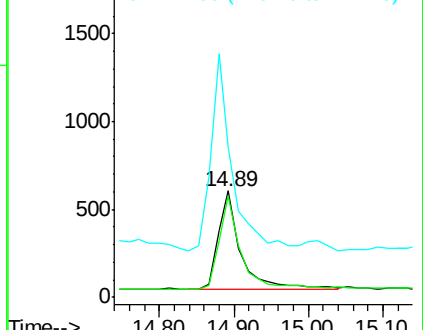
141 190.1 147.8 221.8



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: 1.03 ng

RT: 12.01 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

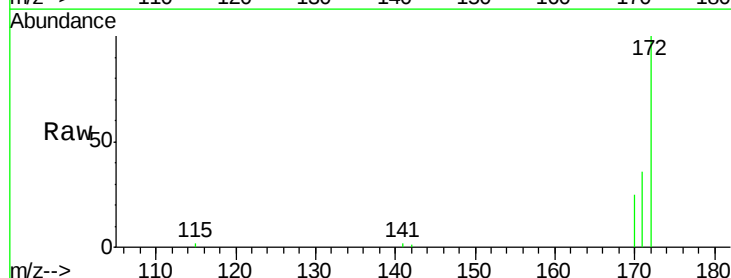
Tgt Ion:172 Resp: 13692

Ion Ratio Lower Upper

172 100

171 36.2 27.3 40.9

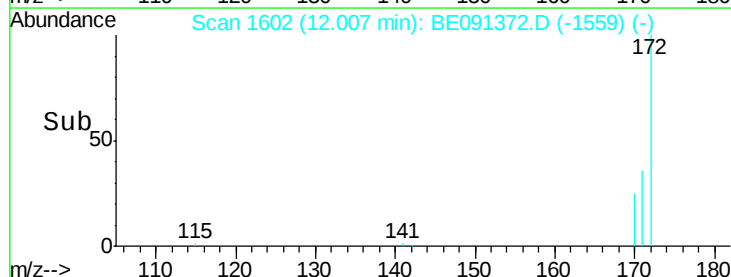
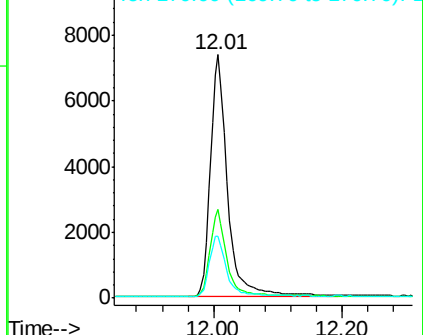
170 25.4 19.8 29.6

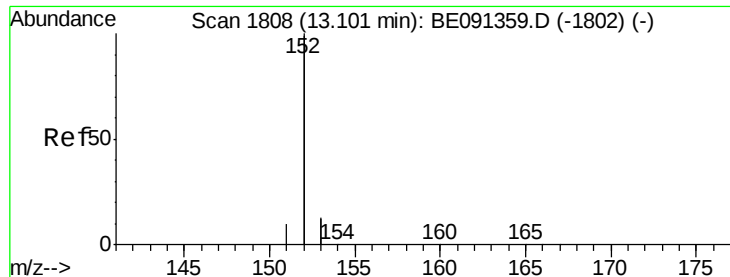


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.99 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

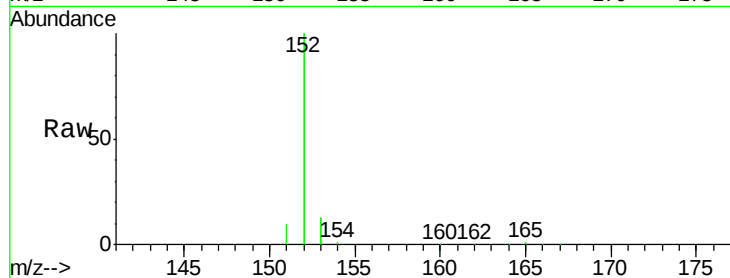
Tot Ion:152 Resp: 83571

Ion Ratio Lower Upper

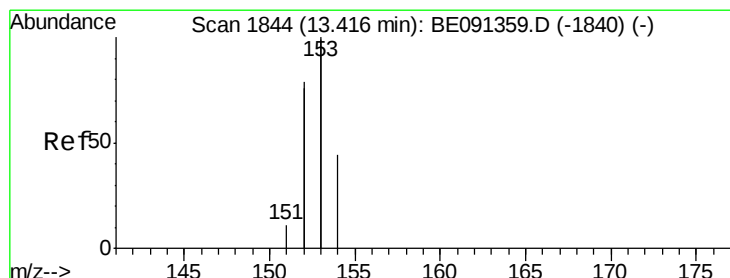
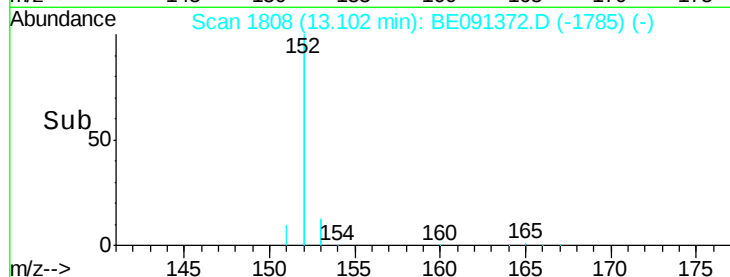
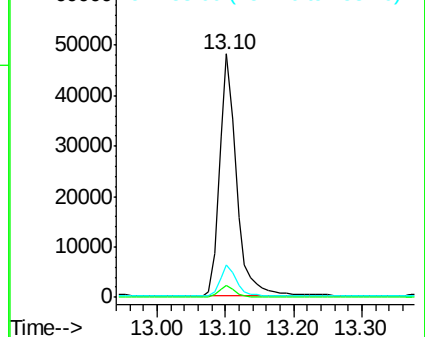
152 100

151 4.7 3.8 5.8

153 12.7 10.1 15.1



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: 0.98 ng

RT: 13.42 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

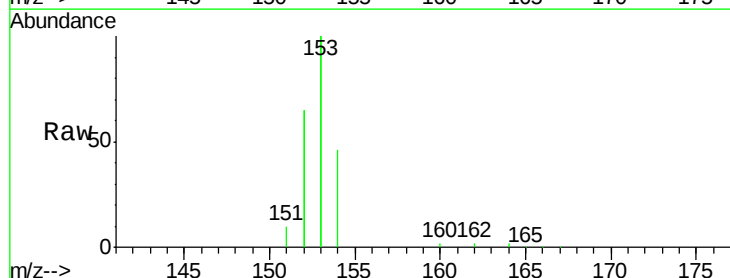
Tgt Ion:154 Resp: 16292

Ion Ratio Lower Upper

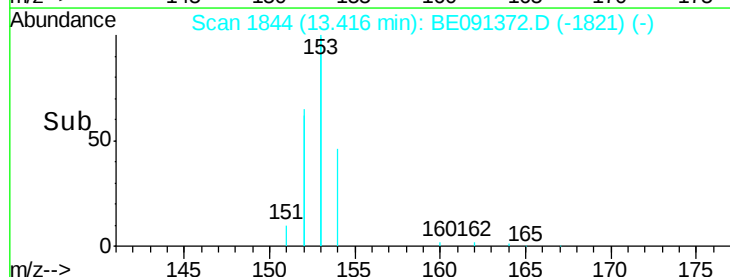
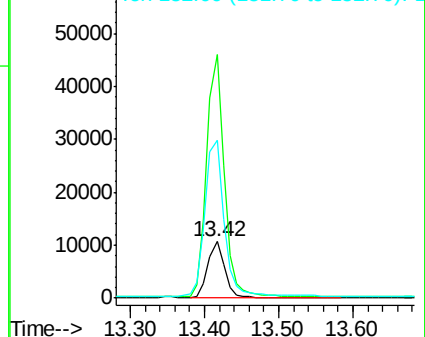
154 100

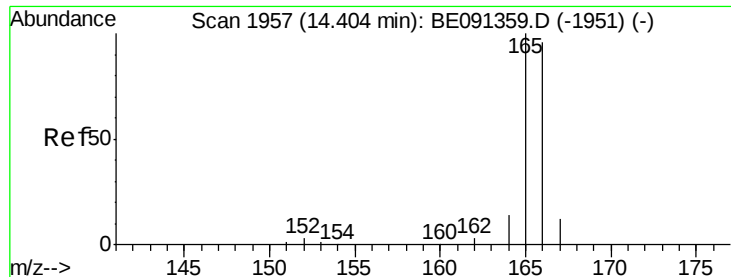
153 450.4 370.2 555.4

152 317.1 310.5 465.7



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: 14.40 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

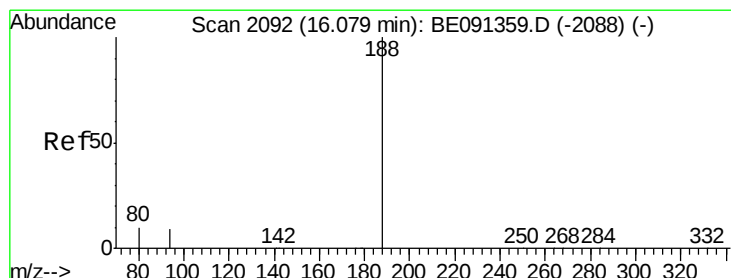
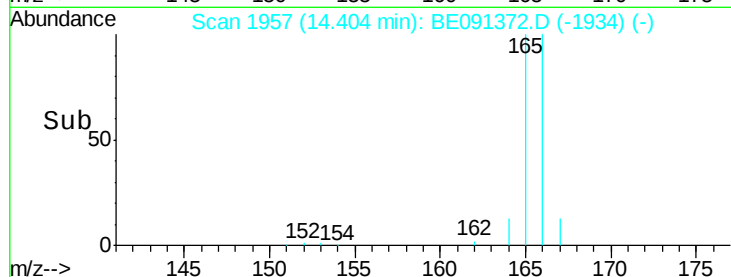
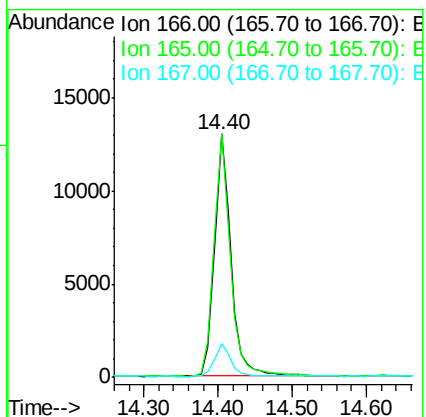
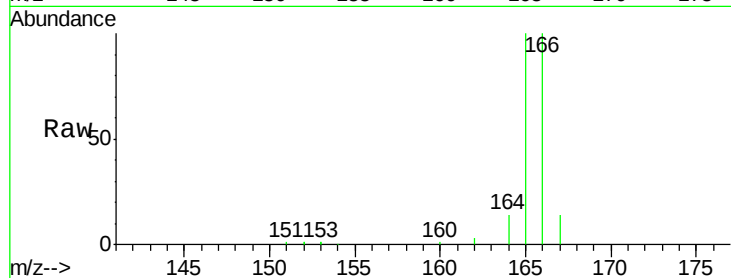
Tot Ion:166 Resp: 19921

Ion Ratio Lower Upper

166 100

165 101.0 83.0 124.6

167 13.7 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

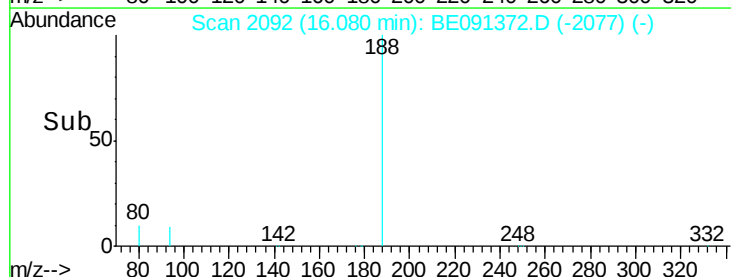
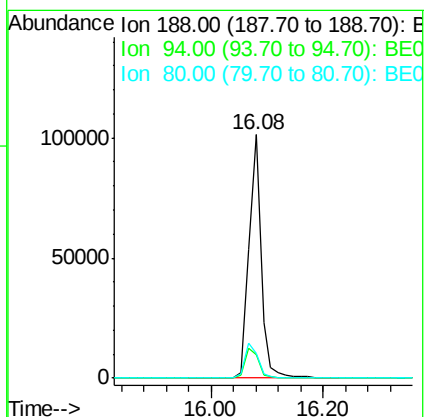
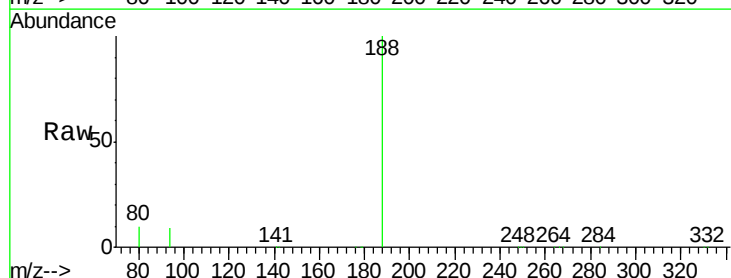
Tgt Ion:188 Resp: 153229

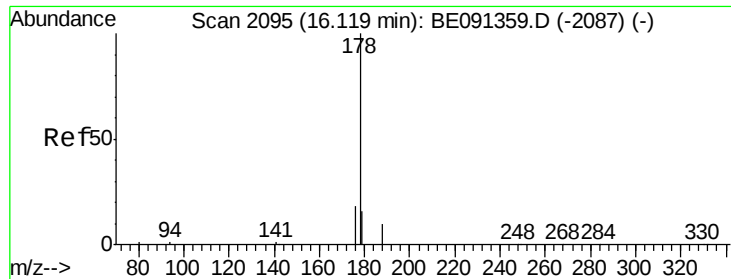
Ion Ratio Lower Upper

188 100

94 9.4 7.5 11.3

80 10.2 8.2 12.2





#15

Phenanthrene

Concen: 1.04 ng

RT: 16.11 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

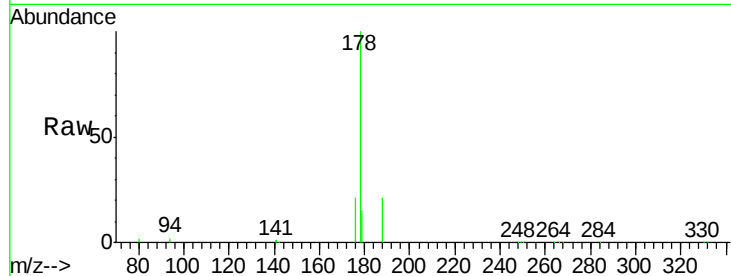
BNA_E

ClientSampleId :

SSTDCCC001

Tot Ion:178 Resp: 39336

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	16.0	12.8	19.2

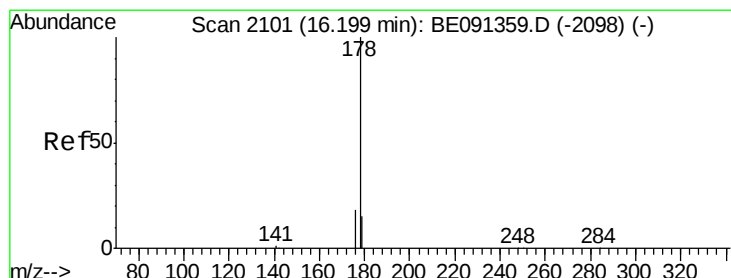
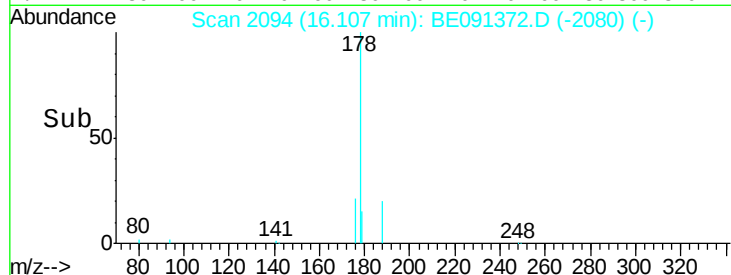
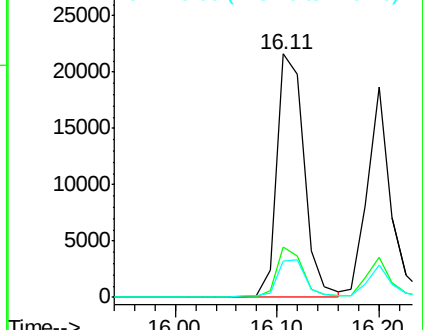


Abundance

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: 1.03 ng

RT: 16.20 min Scan# 2101

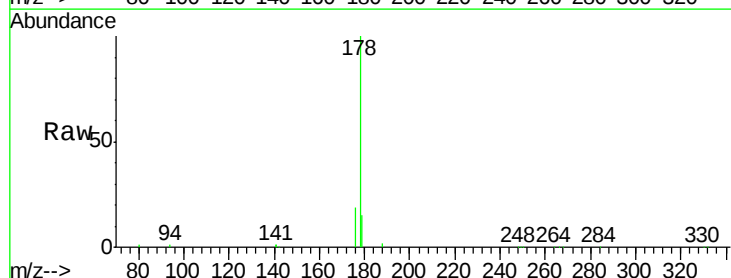
Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Tgt Ion:178 Resp: 30447

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.3	12.4	18.6

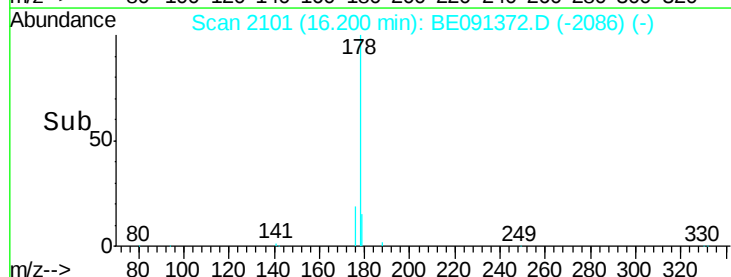
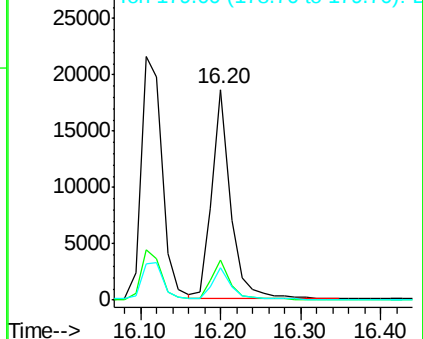


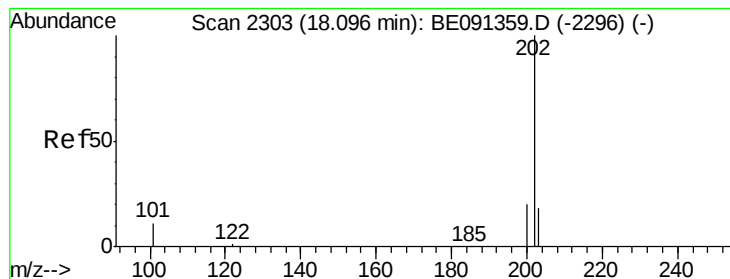
Abundance

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: 18.10 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

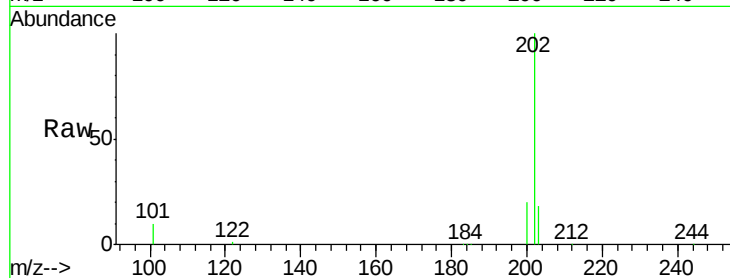
Tot Ion:202 Resp: 31910

Ion Ratio Lower Upper

202 100

101 13.8 11.0 16.4

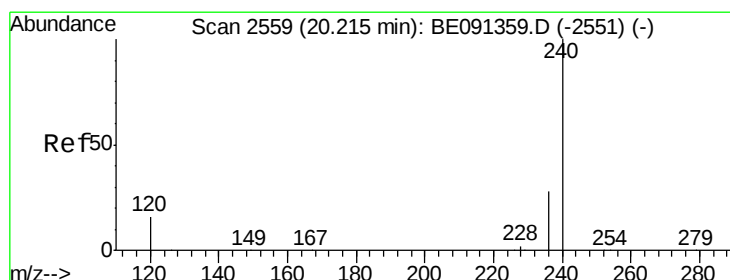
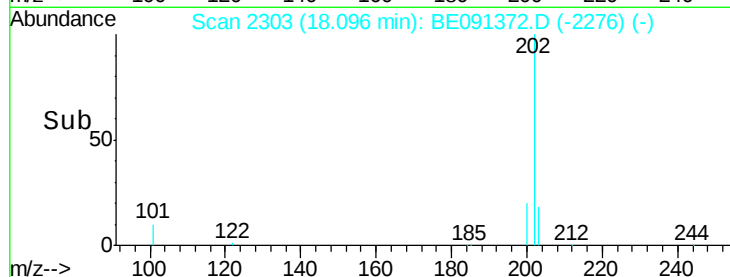
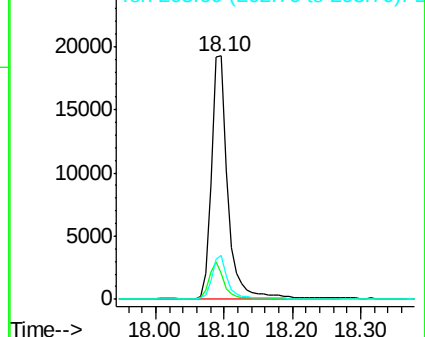
203 17.0 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 2559

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

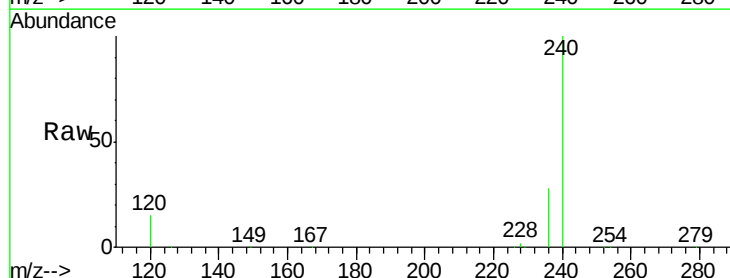
Tgt Ion:240 Resp: 171303

Ion Ratio Lower Upper

240 100

120 15.4 12.6 19.0

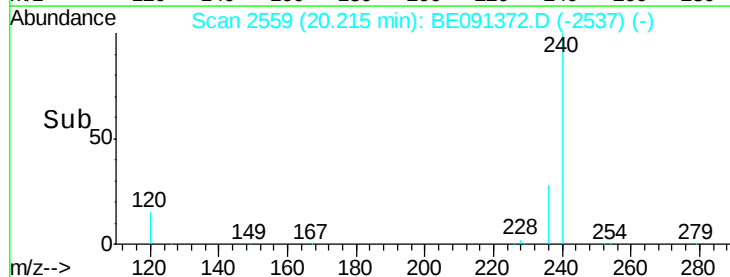
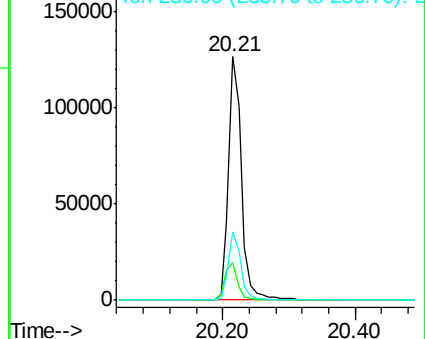
236 28.0 22.7 34.1

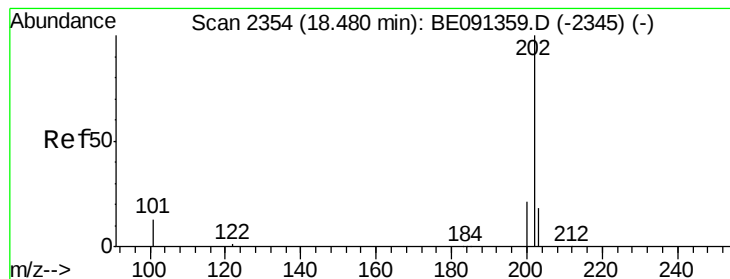


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 1.00 ng

RT: 18.48 min Scan# 2354

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

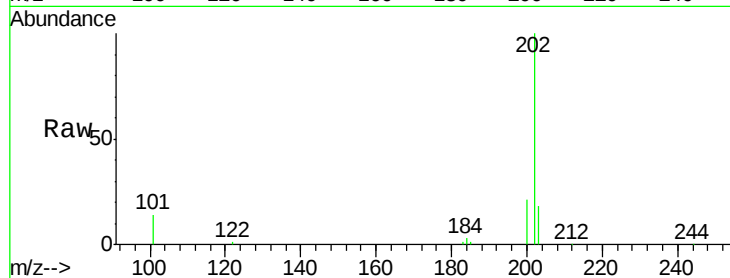
Tot Ion:202 Resp: 27676

Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

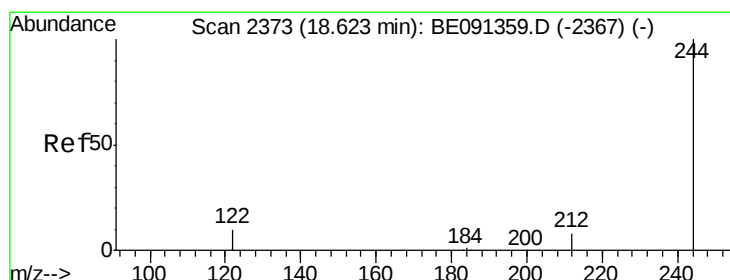
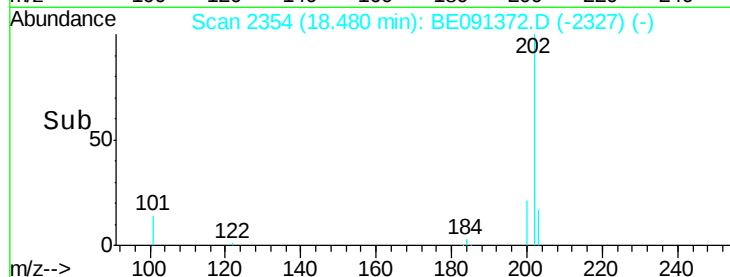
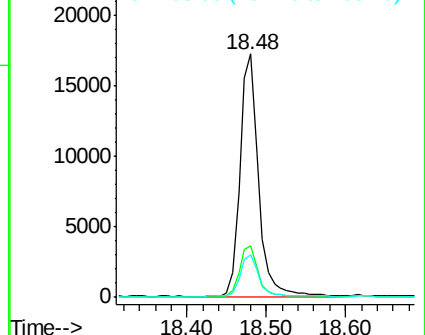
203 17.4 14.2 21.4



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: 1.03 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

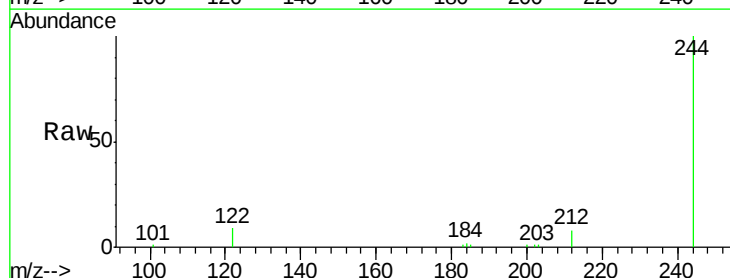
Tgt Ion:244 Resp: 18626

Ion Ratio Lower Upper

244 100

212 7.7 7.0 10.4

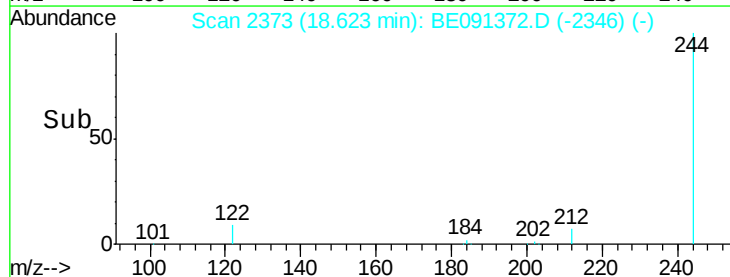
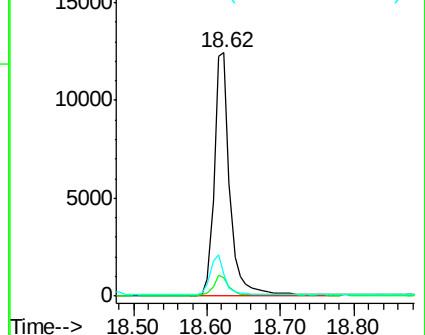
122 9.0 8.5 12.7

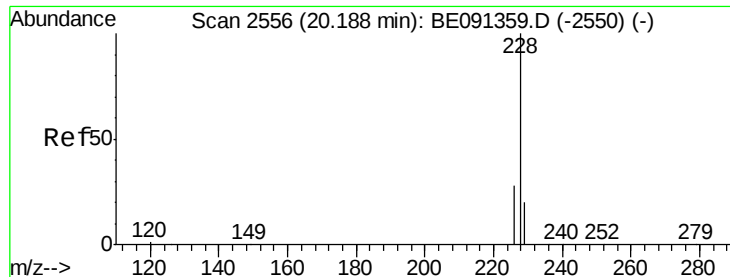


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 1.04 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

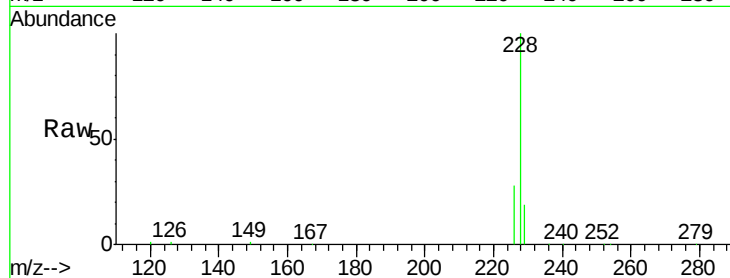
Tot Ion:228 Resp: 26321

Ion Ratio Lower Upper

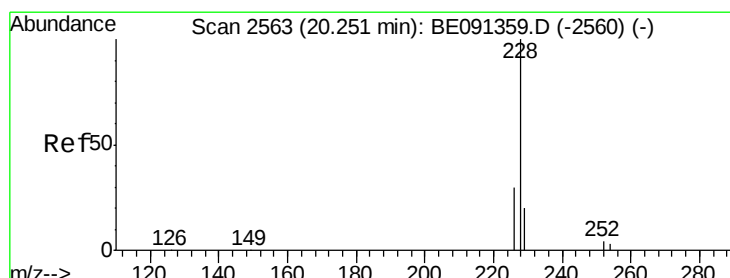
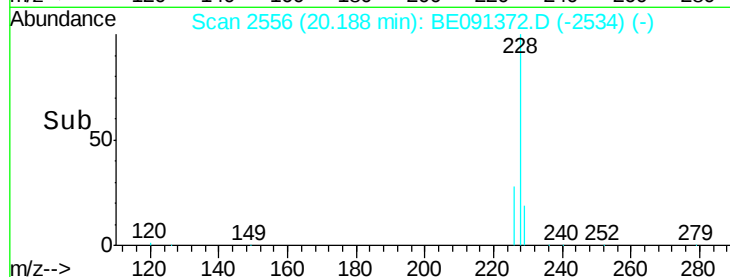
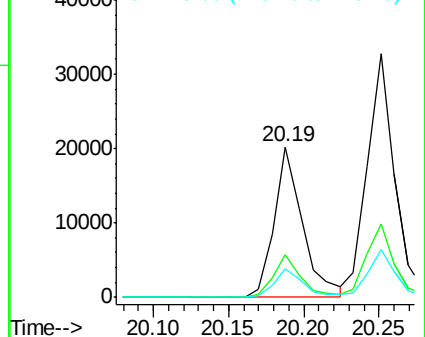
228 100

226 27.9 22.5 33.7

229 19.1 16.2 24.4



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: 1.01 ng

RT: 20.25 min Scan# 2563

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

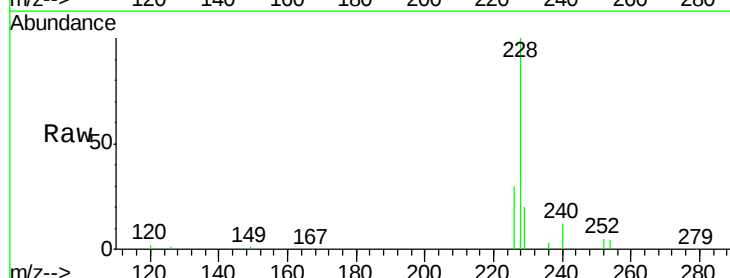
Tgt Ion:228 Resp: 42168

Ion Ratio Lower Upper

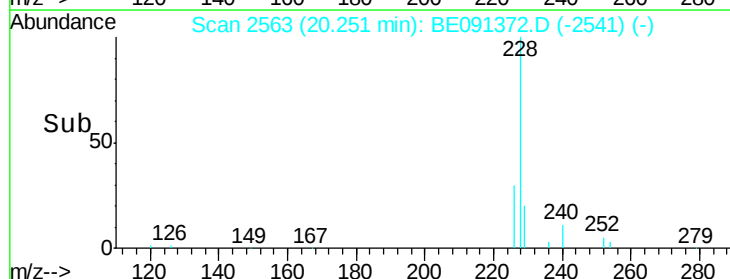
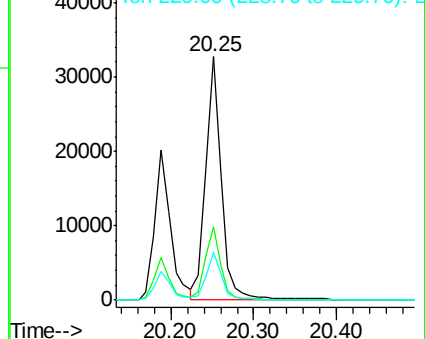
228 100

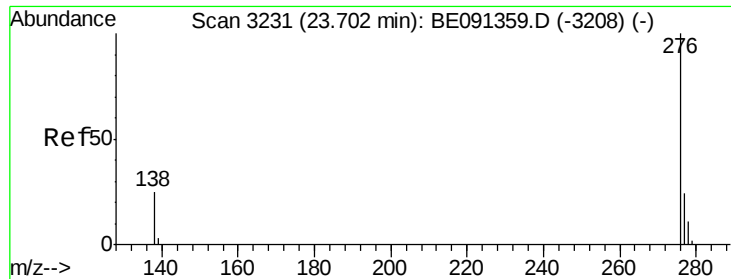
226 30.2 23.7 35.5

229 19.7 16.0 24.0



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: 0.98 ng

RT: 23.70 min Scan# 3232

Delta R.T. 0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

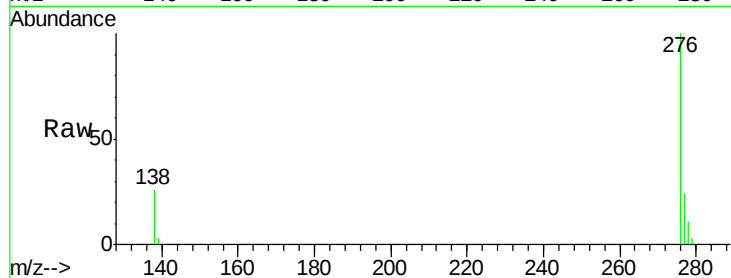
Tot Ion:276 Resp: 28185

Ion Ratio Lower Upper

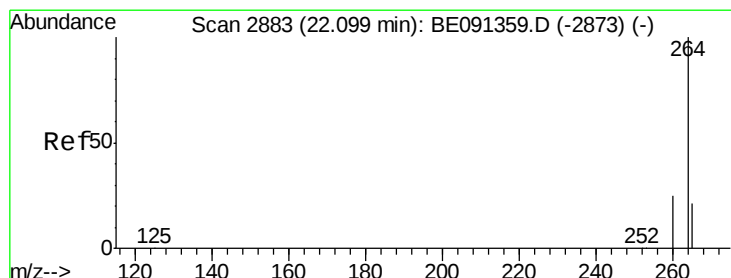
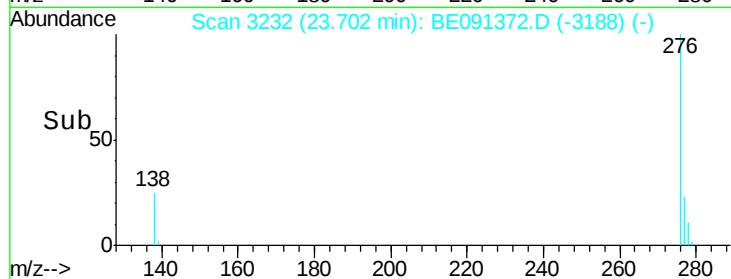
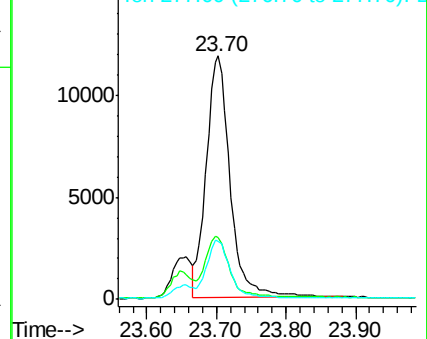
276 100

138 24.8 18.6 27.8

277 23.3 16.5 24.7



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: 22.10 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

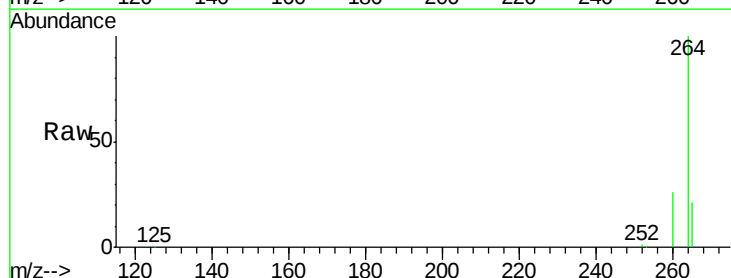
Tgt Ion:264 Resp: 145004

Ion Ratio Lower Upper

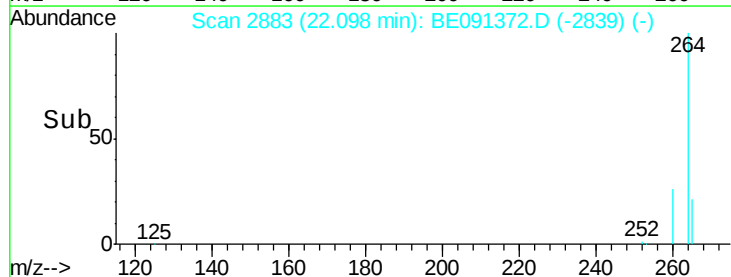
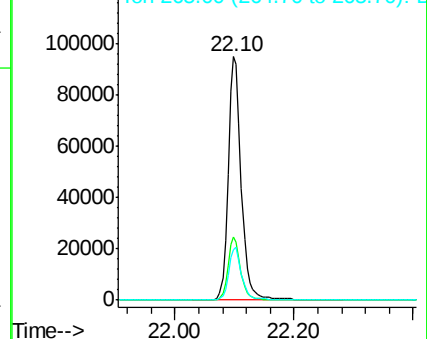
264 100

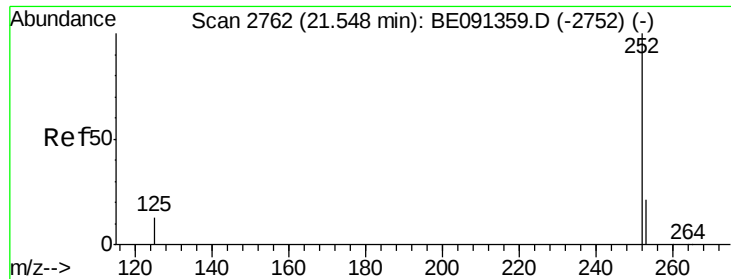
260 25.7 20.4 30.6

265 20.9 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: 1.03 ng

RT: 21.55 min Scan# 2762

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

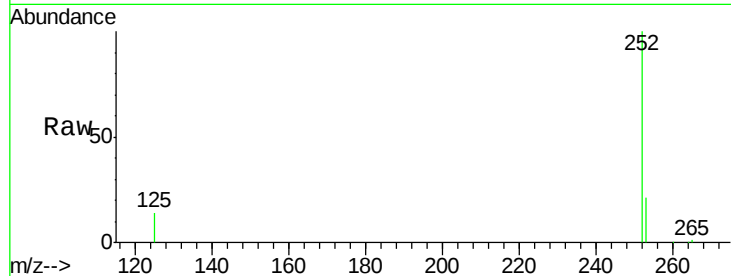
Tot Ion:252 Resp: 28966

Ion Ratio Lower Upper

252 100

253 21.5 17.4 26.2

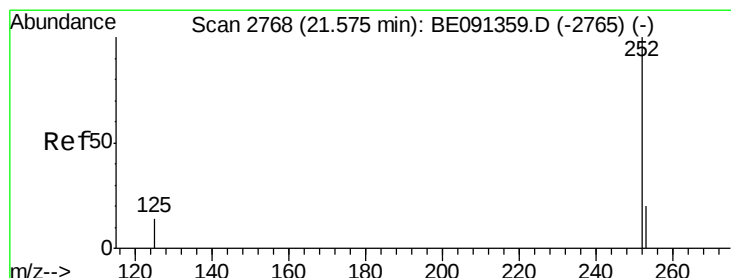
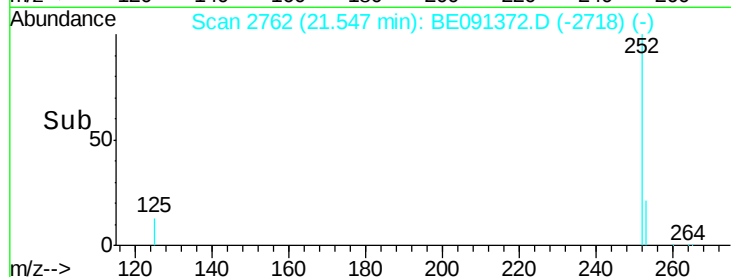
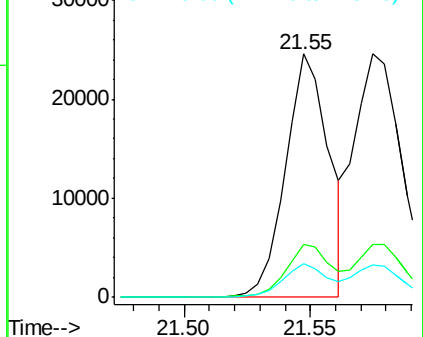
125 13.8 11.0 16.6



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: 1.05 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091372.D

Acq: 15 Jan 2016 9:38

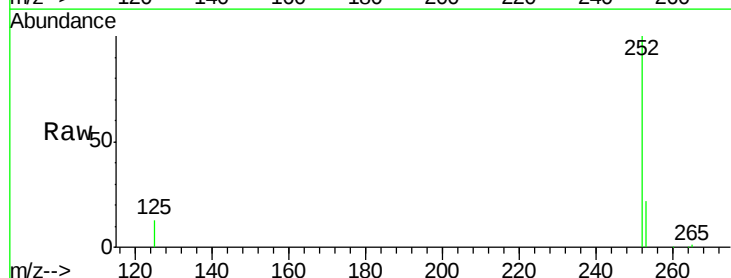
Tgt Ion:252 Resp: 34388

Ion Ratio Lower Upper

252 100

253 21.7 17.5 26.3

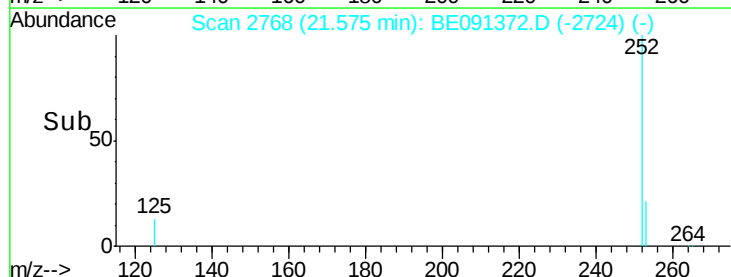
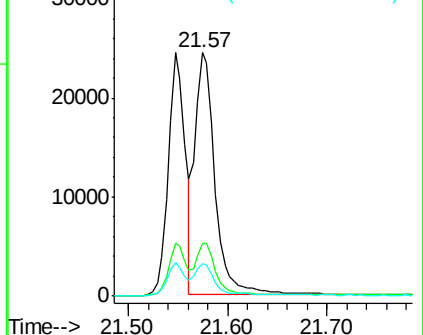
125 13.5 11.3 16.9

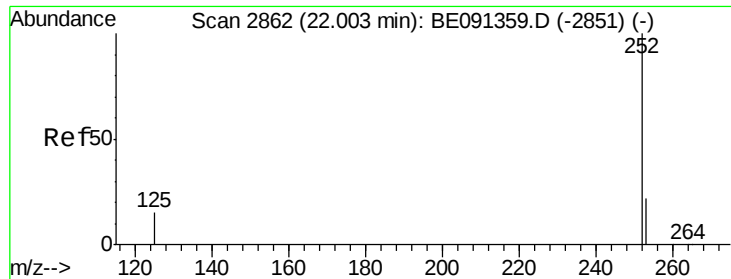


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

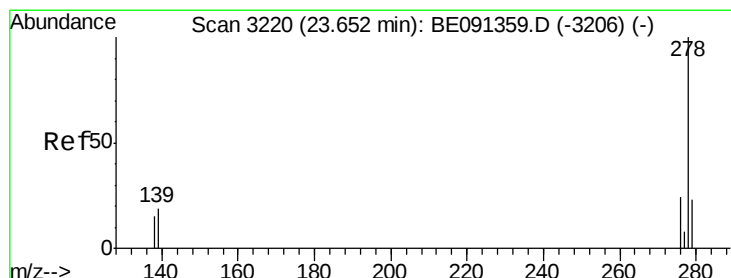
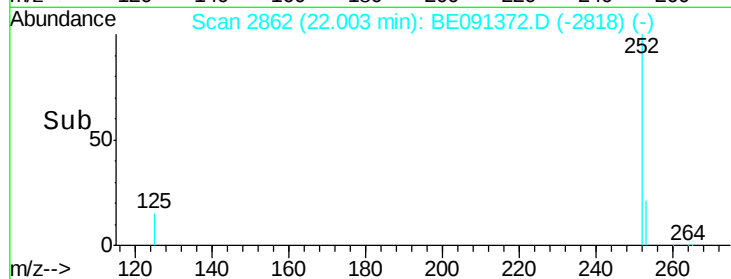
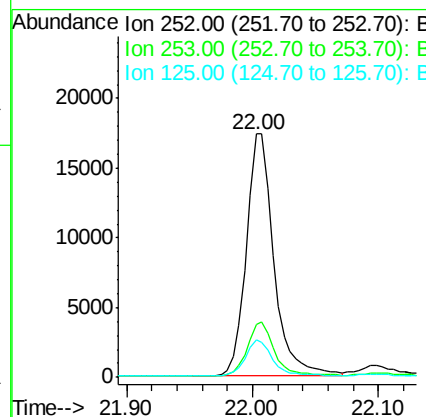
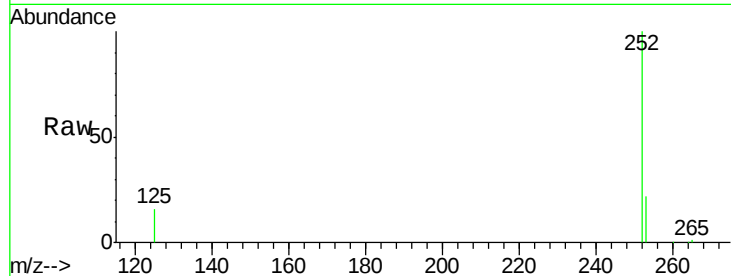




#27
Benzo(a)pyrene
Concen: 0.97 ng
RT: 22.00 min Scan# 2862
Delta R.T. -0.00 min
Lab File: BE091372.D
Acq: 15 Jan 2016 9:38

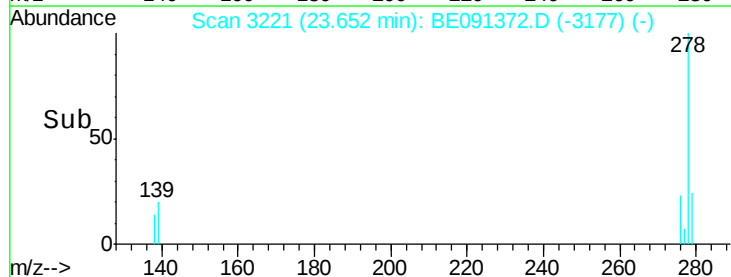
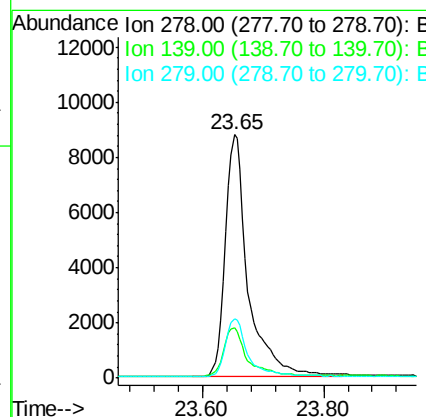
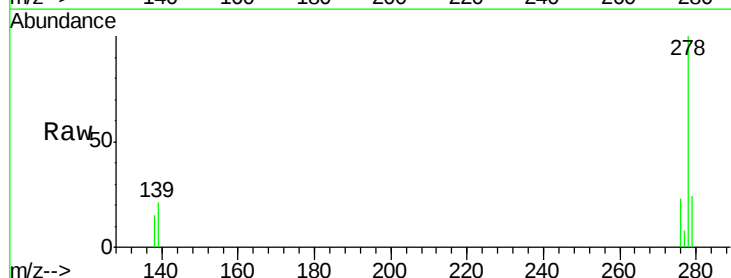
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

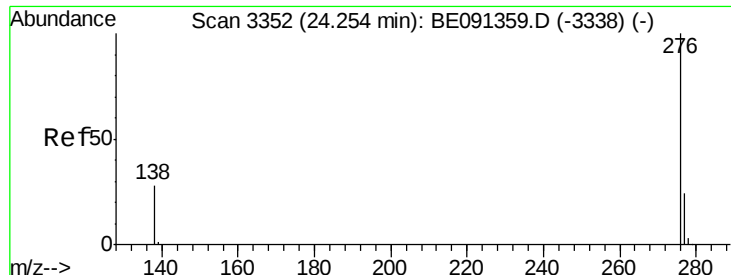
Tot Ion:252 Resp: 26520
Ion Ratio Lower Upper
252 100
253 21.5 18.1 27.1
125 15.6 12.2 18.4



#28
Dibenzo(a,h)anthracene
Concen: 1.08 ng
RT: 23.65 min Scan# 3221
Delta R.T. 0.00 min
Lab File: BE091372.D
Acq: 15 Jan 2016 9:38

Tgt Ion:278 Resp: 23065
Ion Ratio Lower Upper
278 100
139 20.5 16.3 24.5
279 24.1 19.4 29.2





#29

Benzo(a,h,i)perylene

Concen: 1.06 ng

RT: 24.25 min Scan# 3353

Delta R.T. 0.00 min

Lab File: BE091372.D

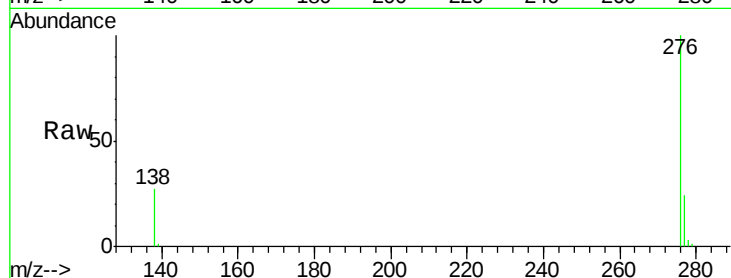
Acq: 15 Jan 2016 9:38

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



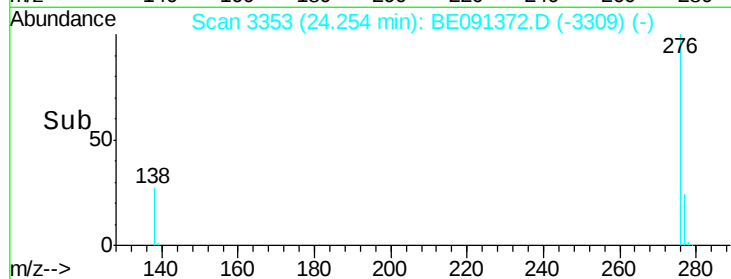
Tot Ion: 276 Resp: 27457

Ion Ratio Lower Upper

276 100

277 24.1 19.8 29.6

138 27.4 23.3 34.9



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

