

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091383.D
 Acq On : 2 Feb 2016 18:34
 Operator : UM/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Quant Time: Feb 03 00:22:07 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 02 17:23:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	46256	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	224125	5.00	ng	-0.02
8) Acenaphthene-d10	13.34	164	135949	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	323650	5.00	ng	0.00
18) Chrysene-d12	20.22	240	396030	5.00	ng	0.00
24) Perylene-d12	22.09	264	367002	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.90	112	111778	22.68	ng	-0.04
3) Phenol-d6	6.51	99	159107	20.20	ng	-0.05
5) Nitrobenzene-d5	8.12	82	155785	11.99	ng	-0.04
9) 2,4,6-Tribromophenol	14.89	330	68087	24.41	ng	0.00
10) 2-Fluorobiphenyl	11.98	172	371633	12.65	ng	-0.03
20) Terphenyl-d14	18.61	244	629708	16.76	ng	-0.02

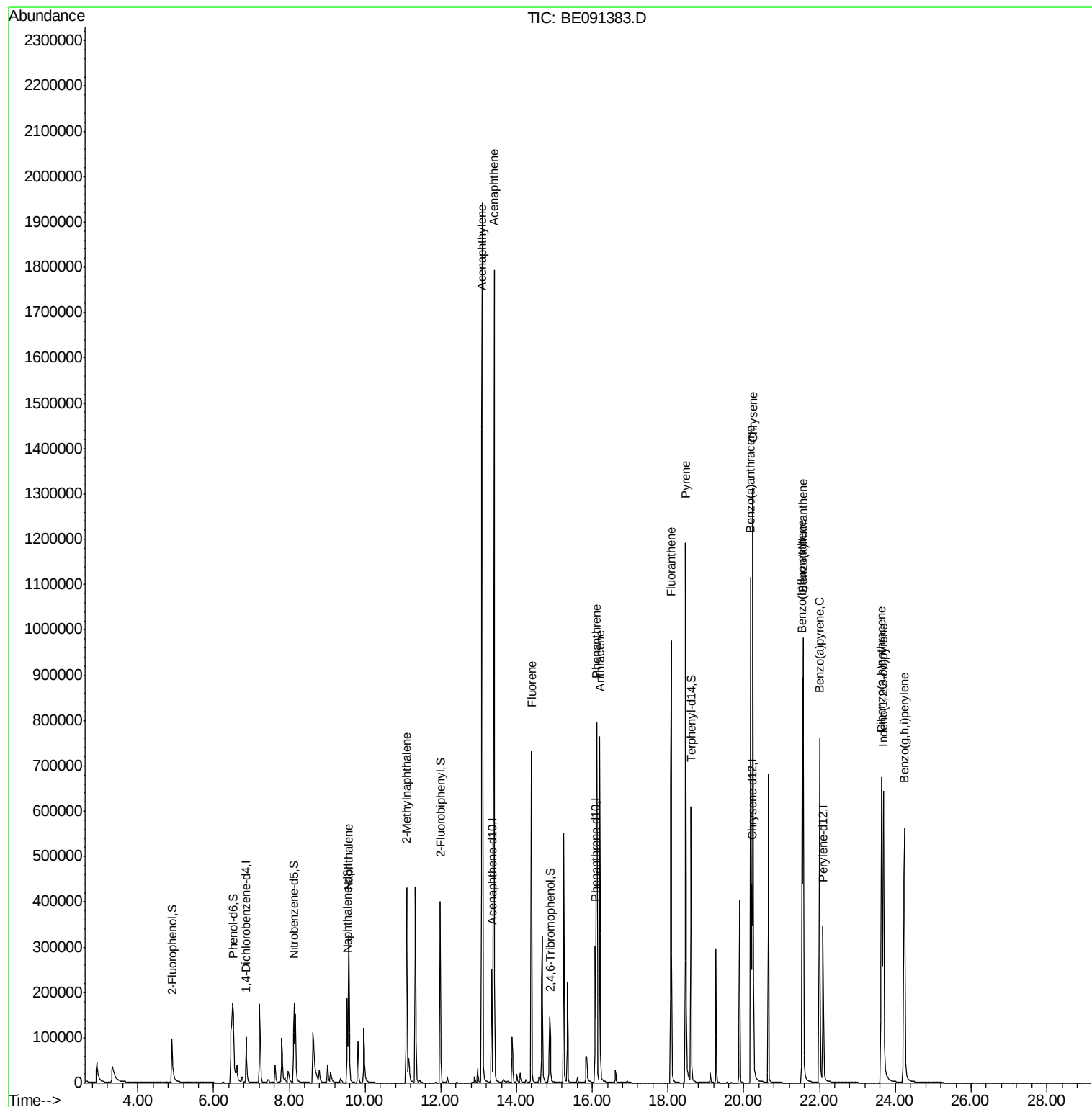
Target Compounds						Qvalue
6) Naphthalene	9.57	128	482977	10.10	ng	99
7) 2-Methylnaphthalene	11.10	142	318820	17.05	ng	94
11) Acenaphthylene	13.09	152	2426979	13.62	ng	99
12) Acenaphthene	13.41	154	358522	9.29	ng	# 68
13) Fluorene	14.39	166	492216	11.49	ng	95
15) Phenanthrene	16.12	178	802706	10.02	ng	99
16) Anthracene	16.20	178	815003	14.52	ng	99
17) Fluoranthene	18.08	202	898212	15.54	ng	99
19) Pyrene	18.46	202	959515	15.87	ng	100
21) Benzo(a)anthracene	20.18	228	898952	16.31	ng	99
22) Chrysene	20.24	228	961672	10.00	ng	97
23) Indeno(1,2,3-cd)pyrene	23.69	276	917007	14.60	ng	93
25) Benzo(b)fluoranthene	21.54	252	927813	15.06	ng	96
26) Benzo(k)fluoranthene	21.57	252	908831	12.62	ng	# 96
27) Benzo(a)pyrene	22.00	252	861994	13.70	ng	# 97
28) Dibenzo(a,h)anthracene	23.64	278	867869	18.57	ng	# 96
29) Benzo(g,h,i)perylene	24.24	276	928610	15.60	ng	# 92

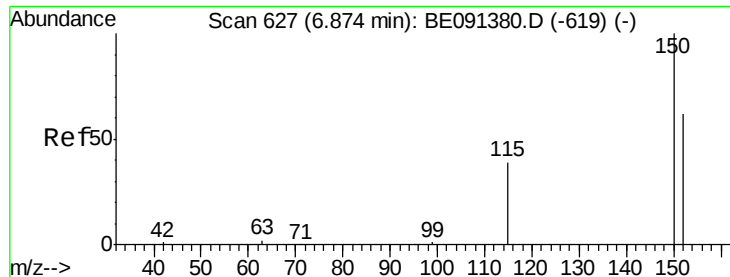
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.86 min Scan# 625

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

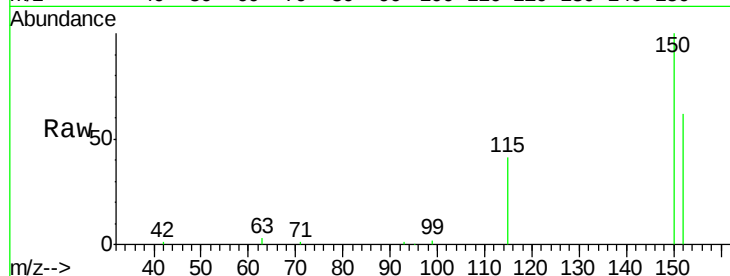
Tot Ion:152 Resp: 46256

Ion Ratio Lower Upper

152 100

150 160.2 121.6 182.4

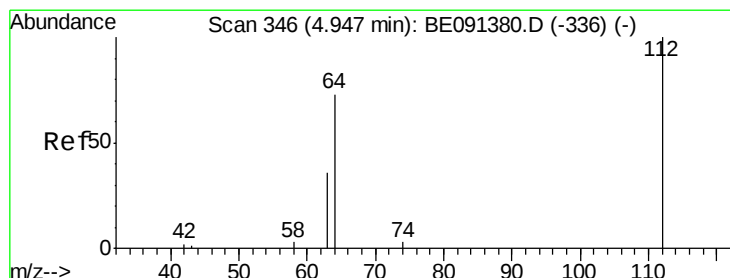
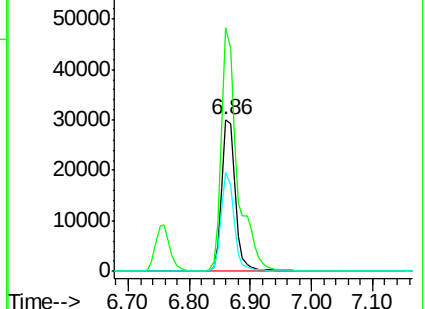
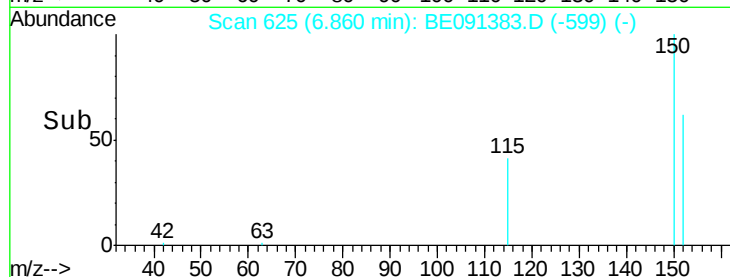
115 65.5 50.6 75.8



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: 22.68 ng

RT: 4.90 min Scan# 339

Delta R.T. -0.04 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

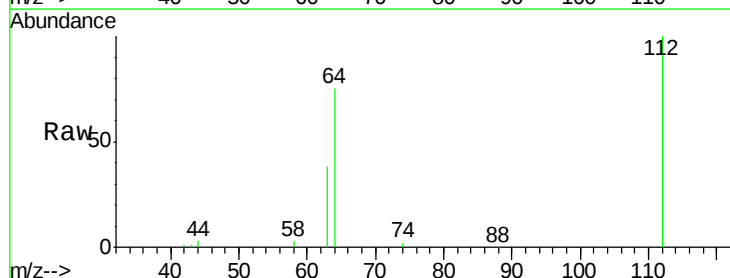
Tgt Ion:112 Resp: 111778

Ion Ratio Lower Upper

112 100

64 71.9 57.4 86.0

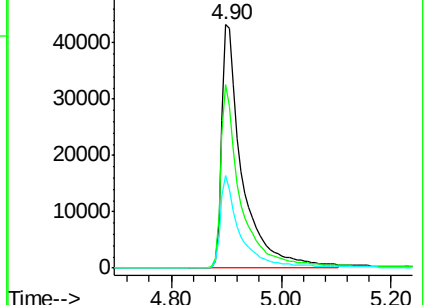
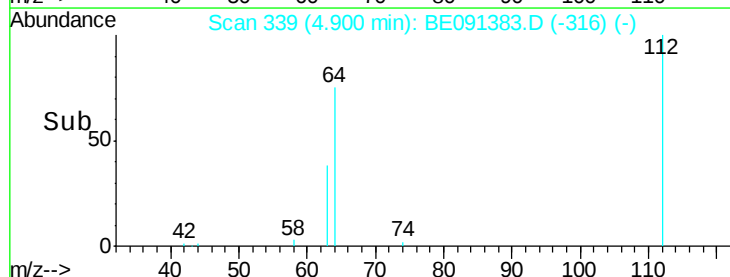
63 36.3 32.2 48.2

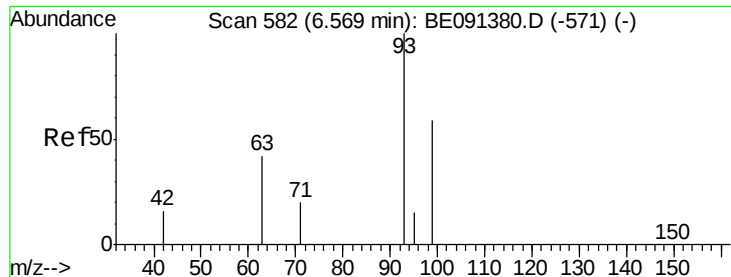


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 20.20 ng

RT: 6.51 min Scan# 574

Delta R.T. -0.05 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

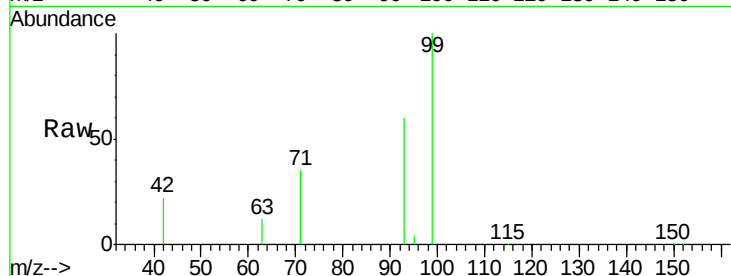
Tot Ion: 99 Resp: 159107

Ion Ratio Lower Upper

99 100

42 25.0 22.9 34.3

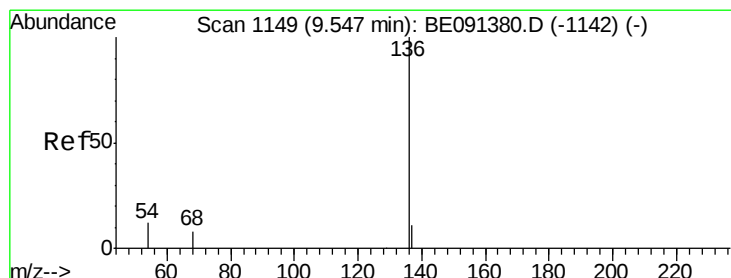
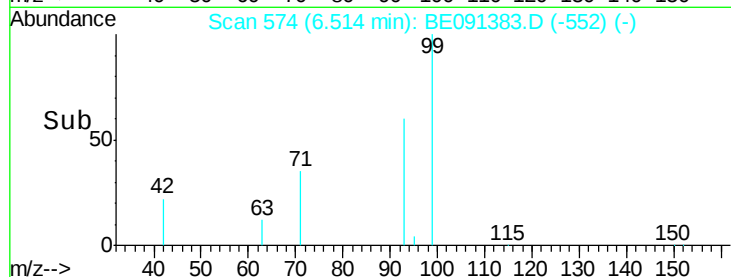
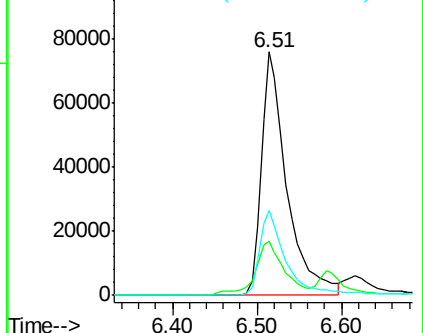
71 37.0 35.4 53.2



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: 9.53 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Tgt Ion: 136 Resp: 224125

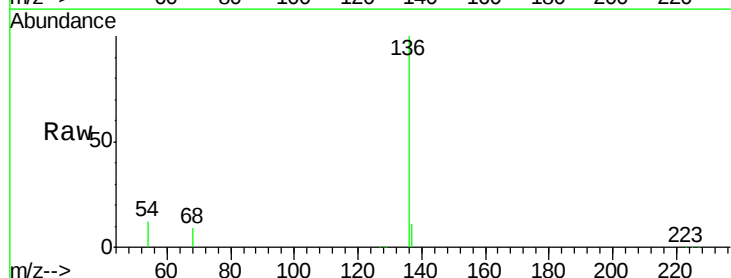
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 11.8 9.8 14.6

68 8.6 6.6 10.0

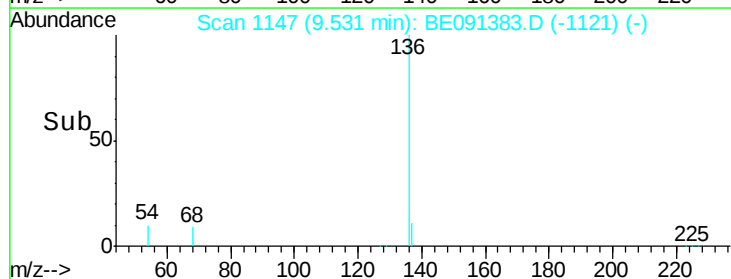
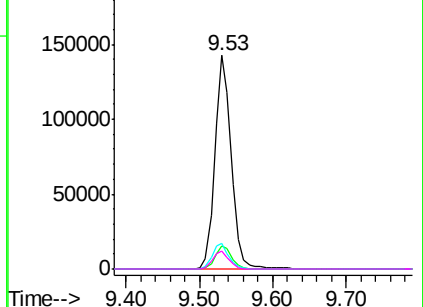


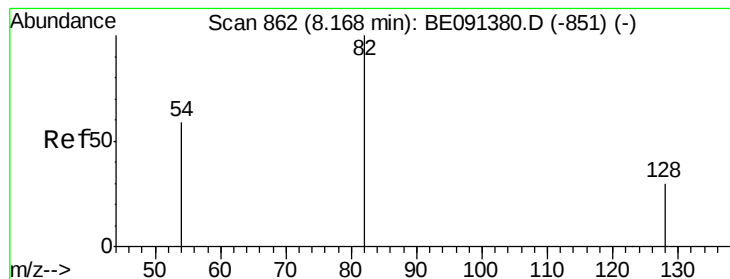
Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.99 ng

RT: 8.12 min Scan# 852

Delta R.T. -0.04 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

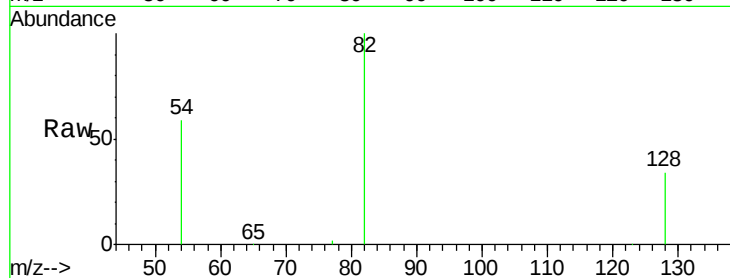
Tot Ion: 82 Resp: 155785

Ion Ratio Lower Upper

82 100

128 33.8 24.6 36.8

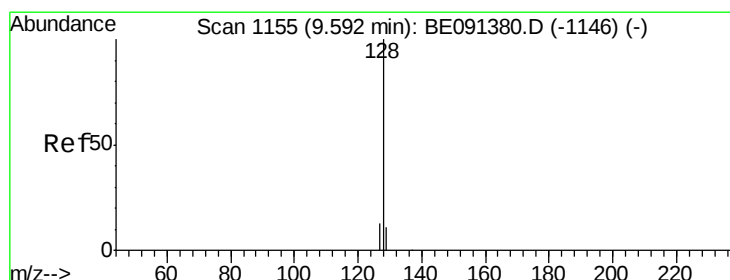
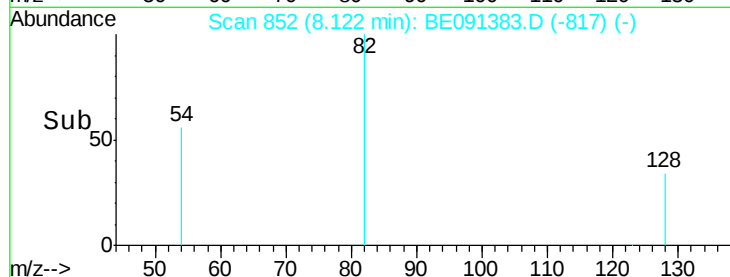
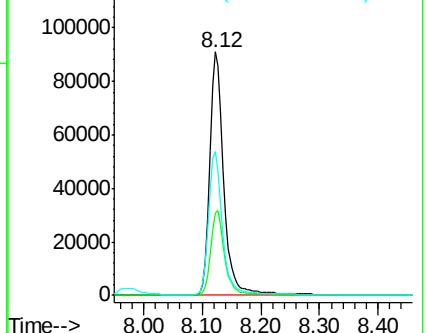
54 58.9 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 10.10 ng

RT: 9.57 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

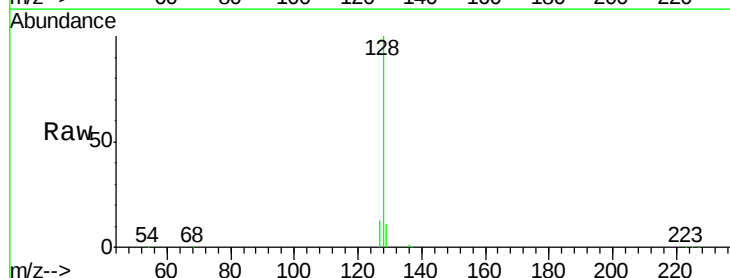
Tgt Ion: 128 Resp: 482977

Ion Ratio Lower Upper

128 100

129 11.1 9.3 13.9

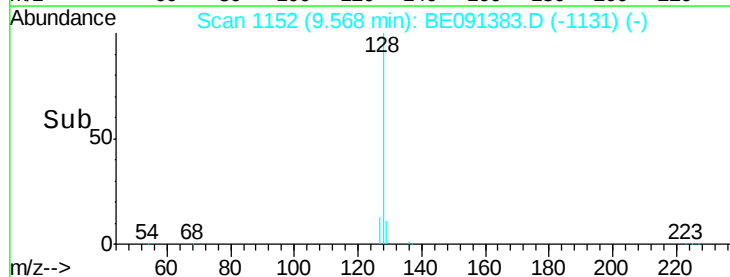
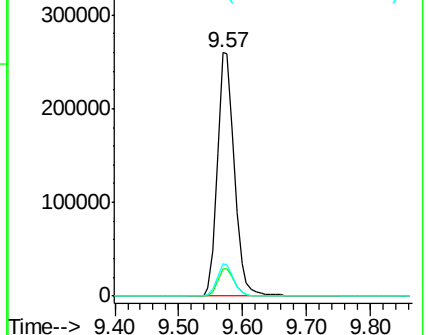
127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 17.05 ng

RT: 11.10 min Scan# 1402

Delta R.T. -0.03 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

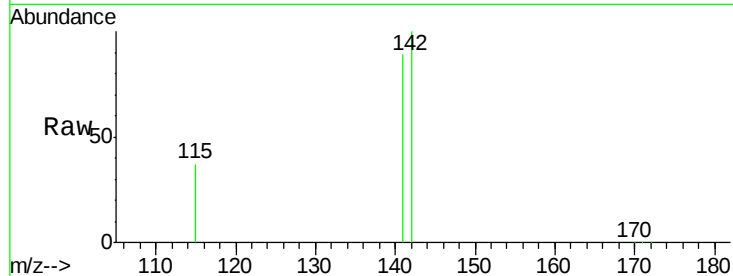
Tot Ion:142 Resp: 318820

Ion Ratio Lower Upper

142 100

141 89.5 74.5 111.7

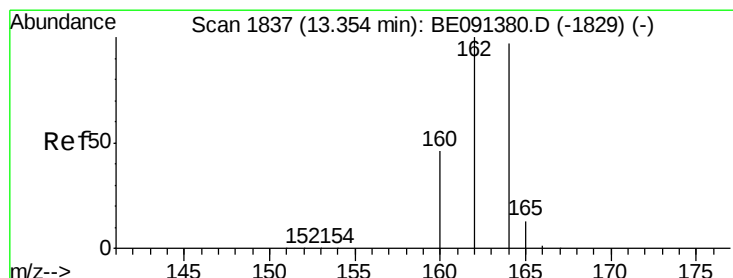
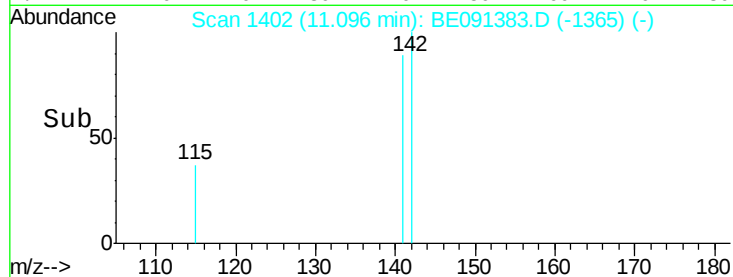
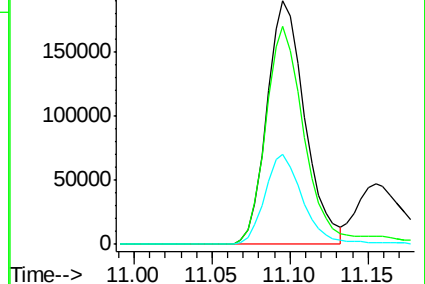
115 36.8 35.2 52.8



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: 13.34 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

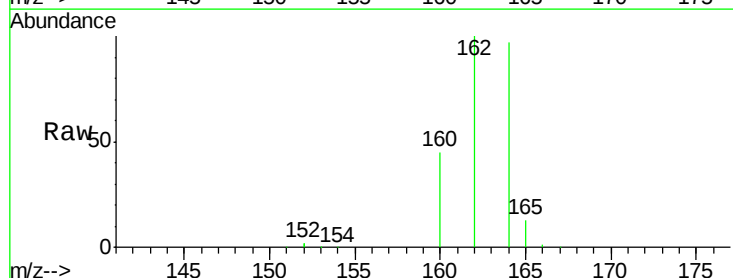
Tgt Ion:164 Resp: 135949

Ion Ratio Lower Upper

164 100

162 102.9 88.5 132.7

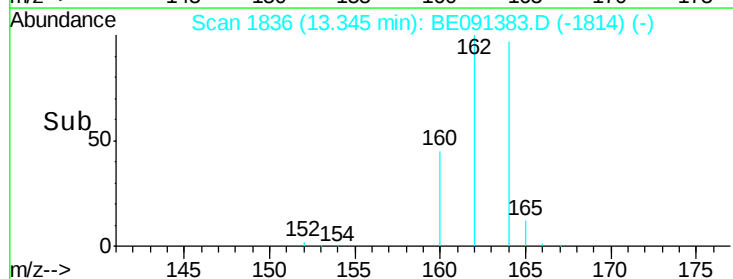
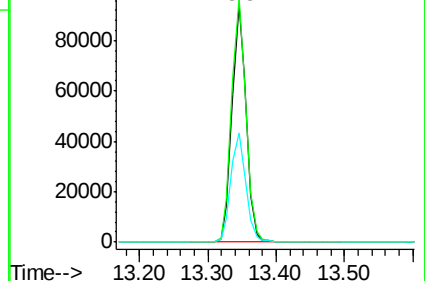
160 46.4 76.7 115.1#



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: 24.41 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.00 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

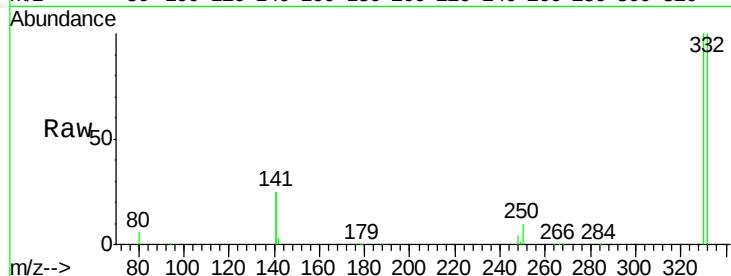
Tot Ion:330 Resp: 68087

Ion Ratio Lower Upper

330 100

332 112.3 78.6 118.0

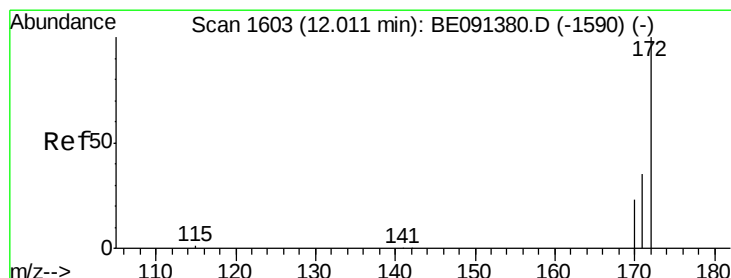
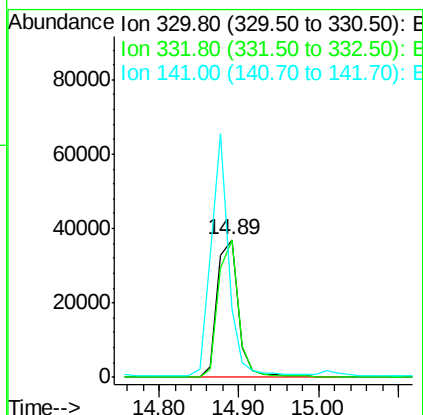
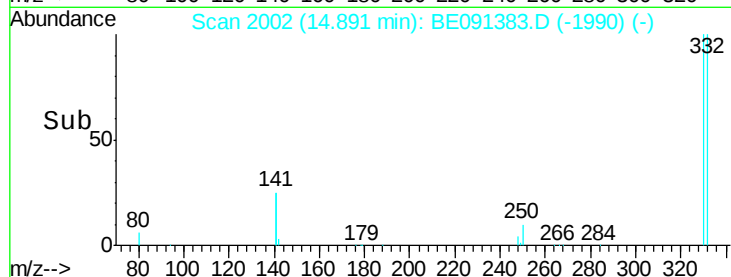
141 147.2 147.8 221.8#



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: 12.65 ng

RT: 11.98 min Scan# 1597

Delta R.T. -0.03 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

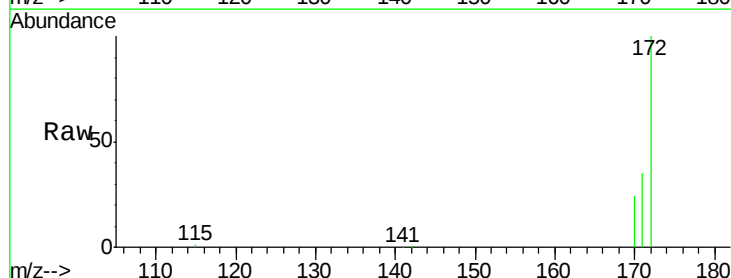
Tgt Ion:172 Resp: 371633

Ion Ratio Lower Upper

172 100

171 35.5 27.3 40.9

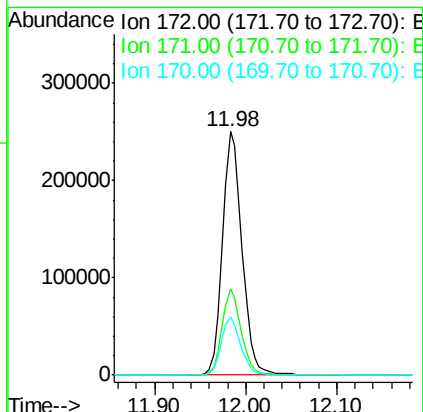
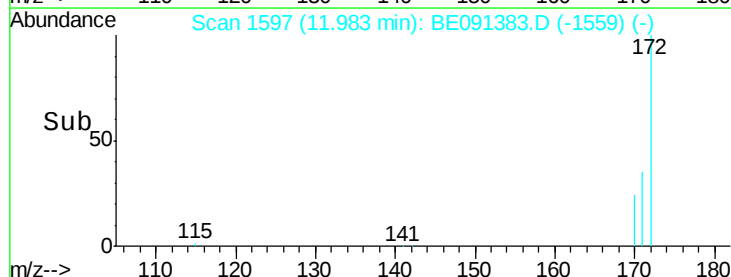
170 23.8 19.8 29.6

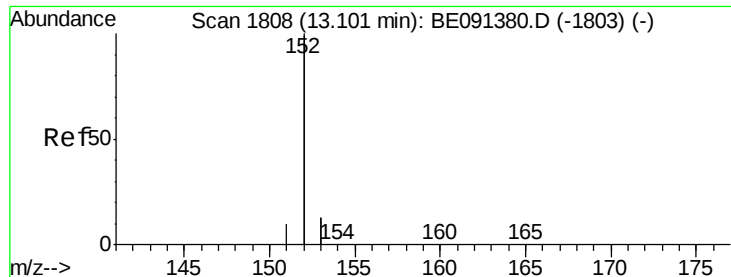


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 13.62 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

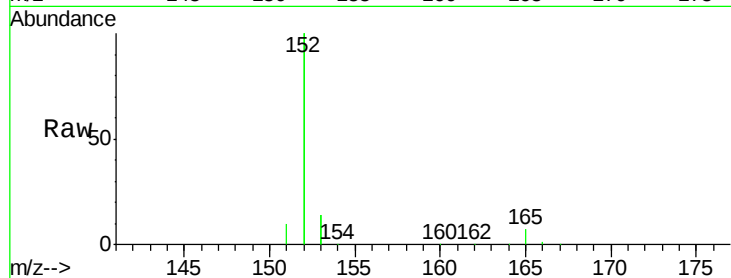
Tot Ion:152 Resp: 2426979

Ion Ratio Lower Upper

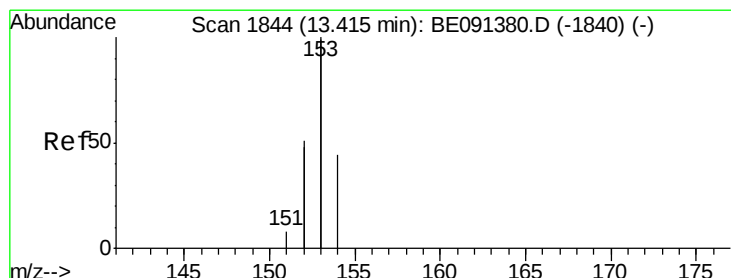
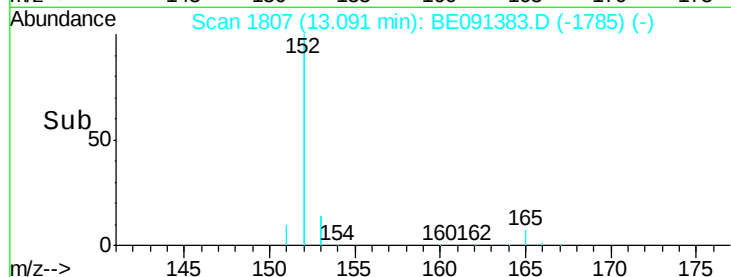
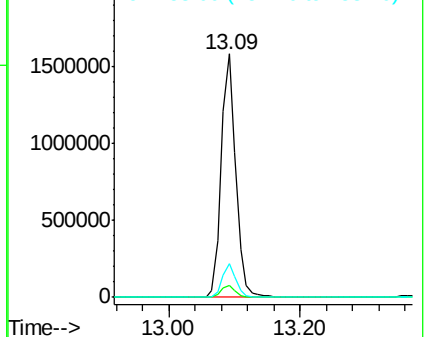
152 100

151 4.9 3.8 5.8

153 13.3 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: 9.29 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

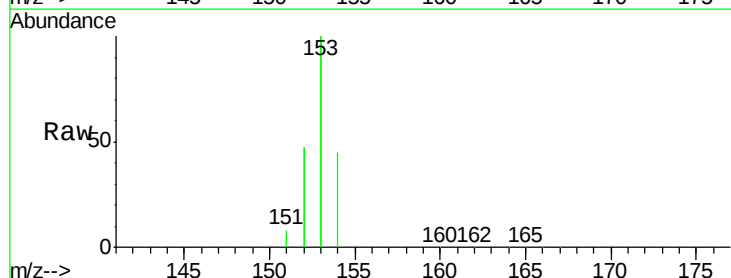
Tgt Ion:154 Resp: 358522

Ion Ratio Lower Upper

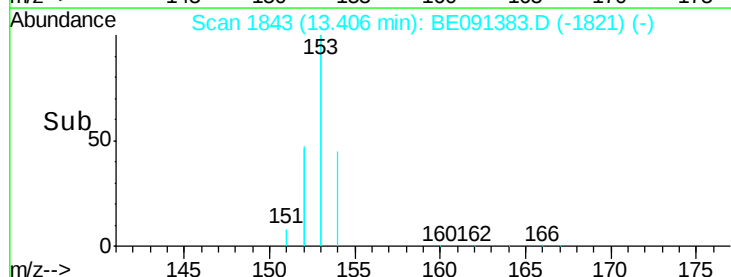
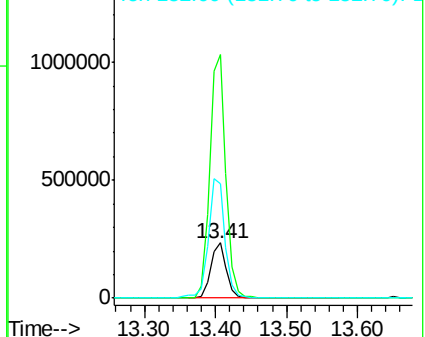
154 100

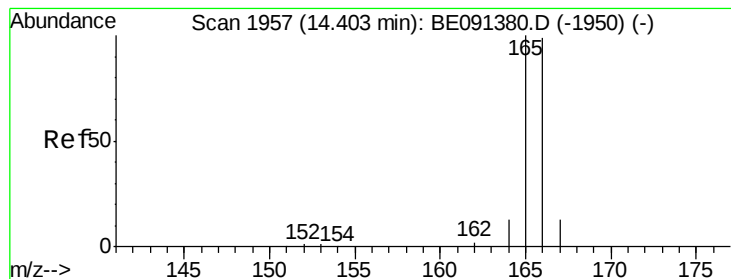
153 456.6 370.2 555.4

152 229.9 310.5 465.7#



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: 11.49 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

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SSTDIC010

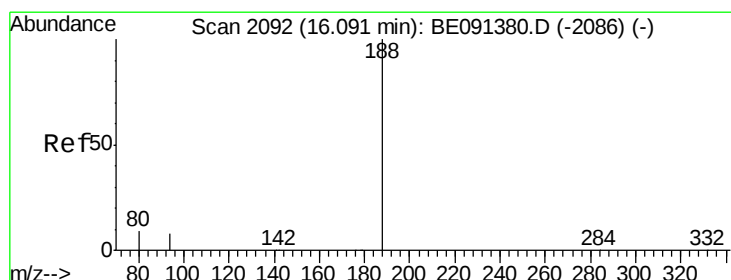
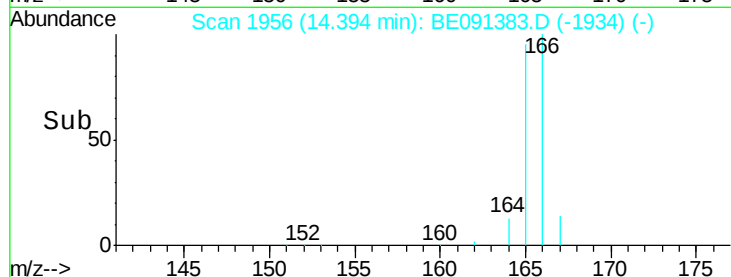
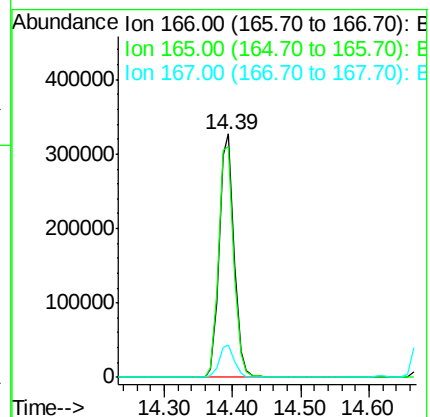
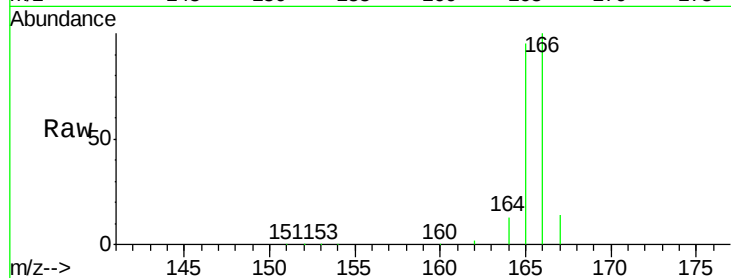
Tot Ion:166 Resp: 492216

Ion Ratio Lower Upper

166 100

165 98.4 83.0 124.6

167 13.6 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.00 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

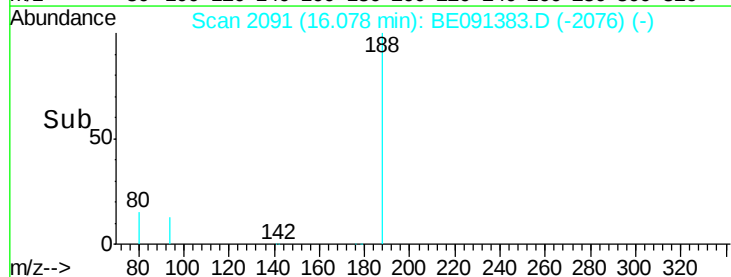
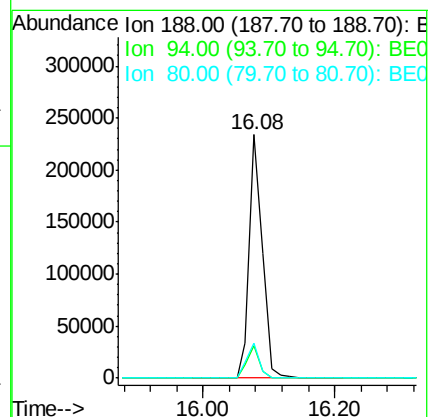
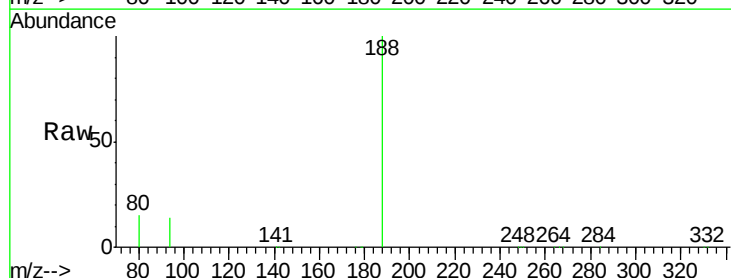
Tgt Ion:188 Resp: 323650

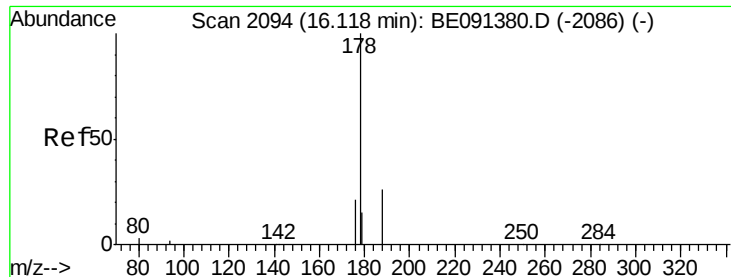
Ion Ratio Lower Upper

188 100

94 13.5 7.5 11.3#

80 14.6 8.2 12.2#

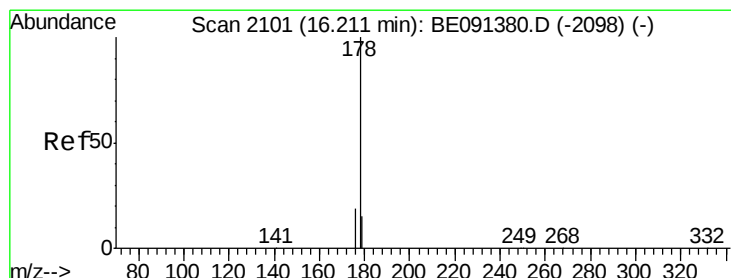
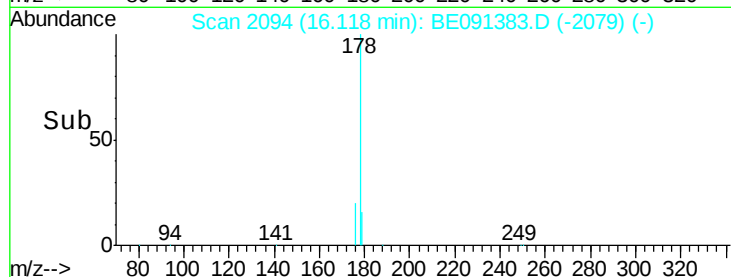
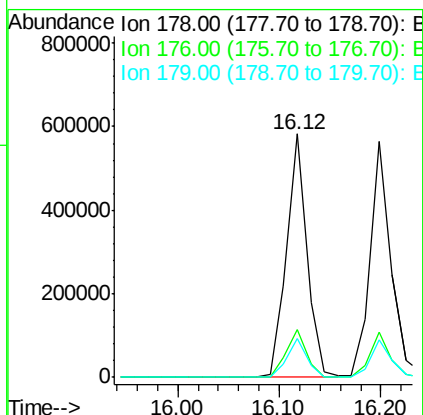
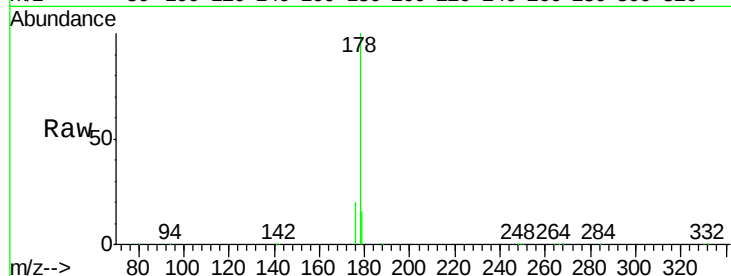




#15
Phenanthrene
Concen: 10.02 ng
RT: 16.12 min Scan# 2094
Delta R.T. -0.00 min
Lab File: BE091383.D
Acq: 2 Feb 2016 18:34

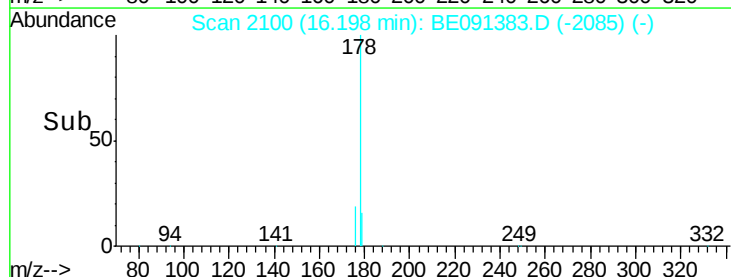
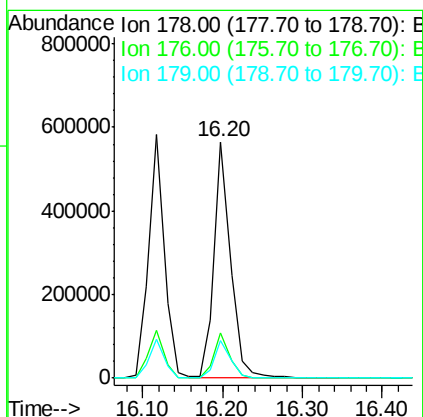
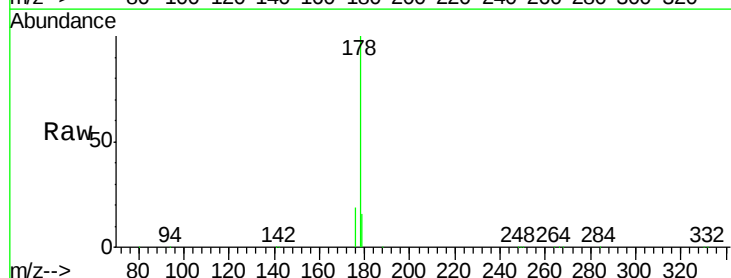
Instrument :
BNA_E
ClientSampleId :
SSTDIC010

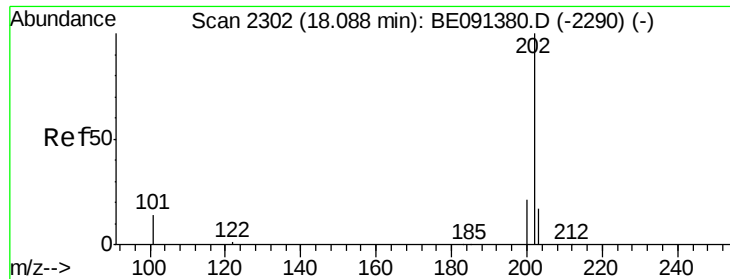
Tot Ion:178 Resp: 802706
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.9 12.8 19.2



#16
Anthracene
Concen: 14.52 ng
RT: 16.20 min Scan# 2100
Delta R.T. -0.00 min
Lab File: BE091383.D
Acq: 2 Feb 2016 18:34

Tgt Ion:178 Resp: 815003
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.7 12.4 18.6

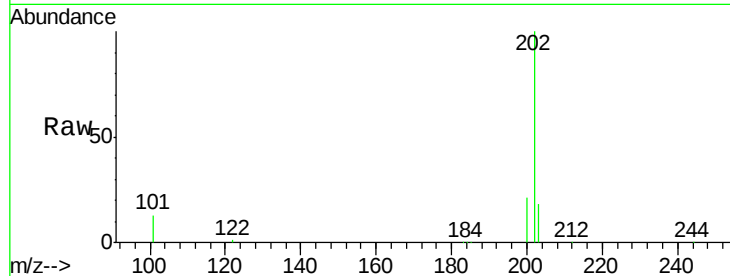




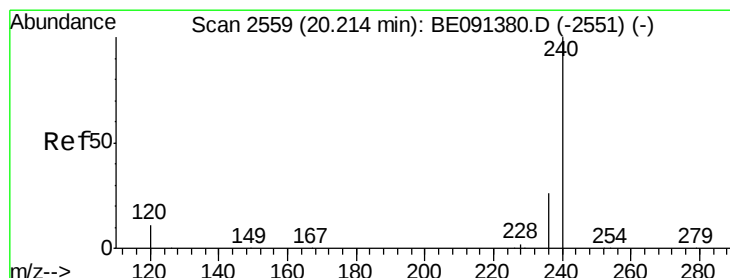
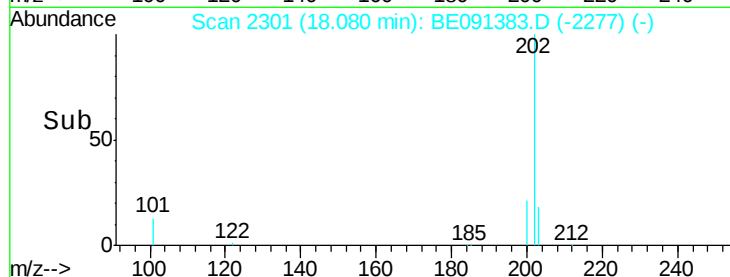
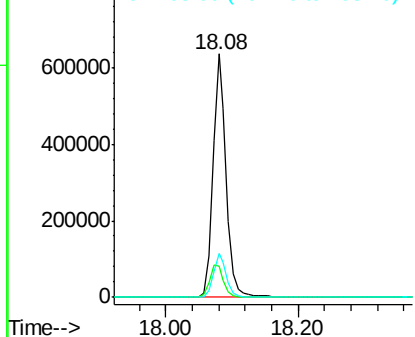
#17
 Fluoranthene
 Concen: 15.54 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: BE091383.D
 Acq: 2 Feb 2016 18:34

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion:202 Resp: 898212
 Ion Ratio Lower Upper
 202 100
 101 14.0 11.0 16.4
 203 17.8 13.9 20.9

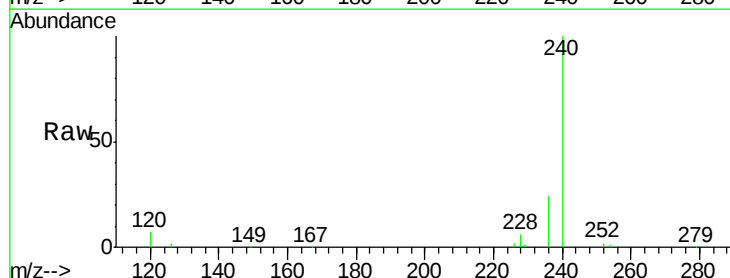


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

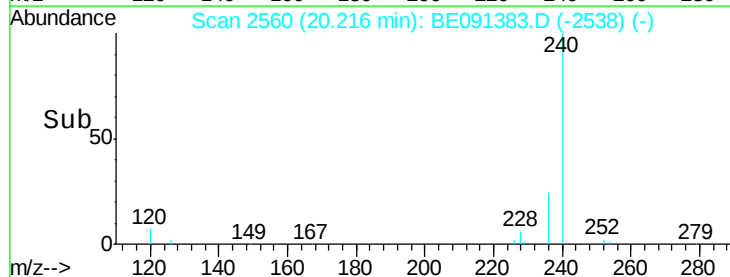
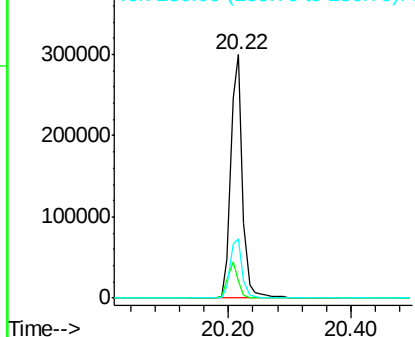


#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091383.D
 Acq: 2 Feb 2016 18:34

Tgt Ion:240 Resp: 396030
 Ion Ratio Lower Upper
 240 100
 120 6.9 12.6 19.0#
 236 24.4 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: 15.87 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

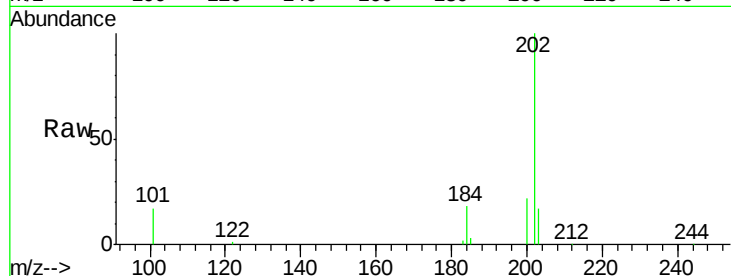
Tot Ion:202 Resp: 959515

Ion Ratio Lower Upper

202 100

200 21.8 17.2 25.8

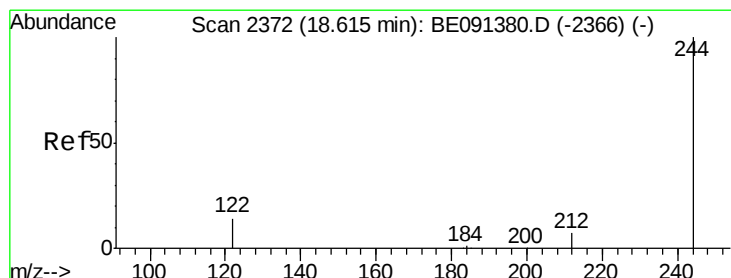
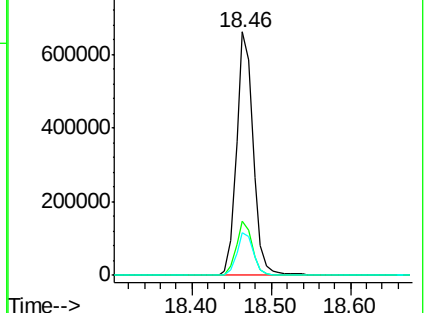
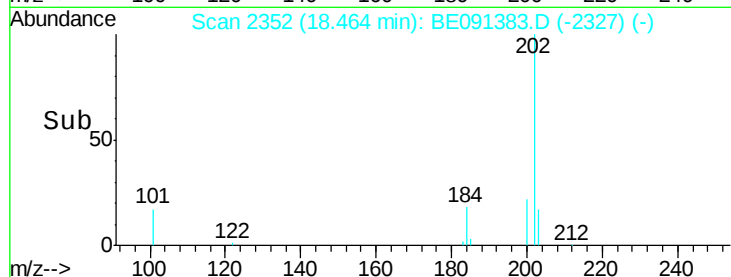
203 17.8 14.2 21.4



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: 16.76 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

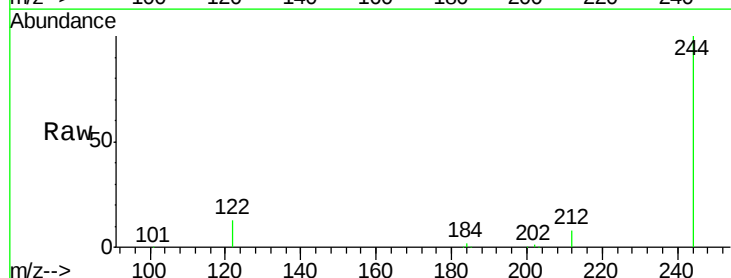
Tgt Ion:244 Resp: 629708

Ion Ratio Lower Upper

244 100

212 7.7 7.0 10.4

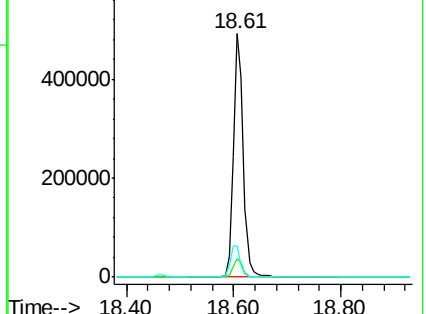
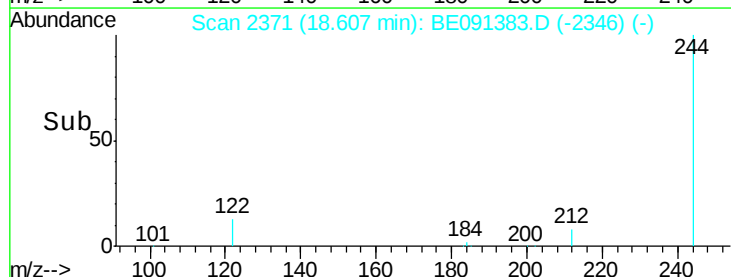
122 12.6 8.5 12.7

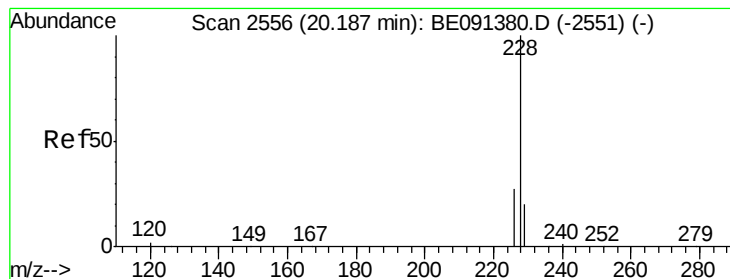


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 16.31 ng

RT: 20.18 min Scan# 2556

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

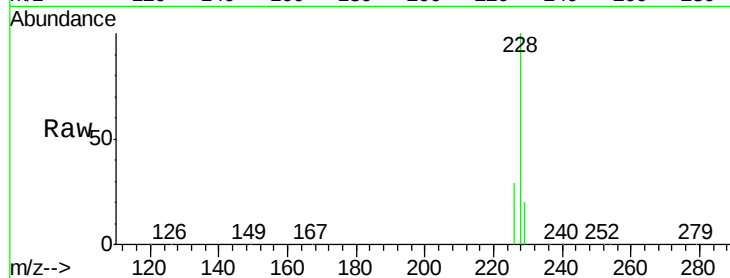
Tot Ion:228 Resp: 898952

Ion Ratio Lower Upper

228 100

226 28.9 22.5 33.7

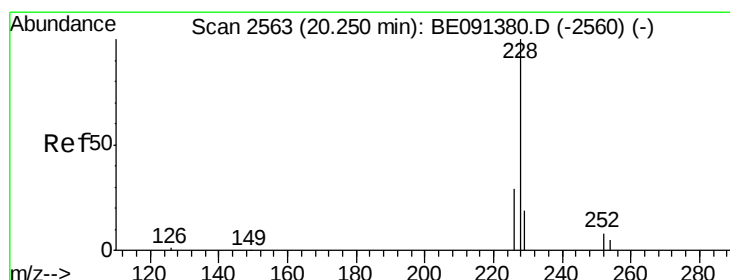
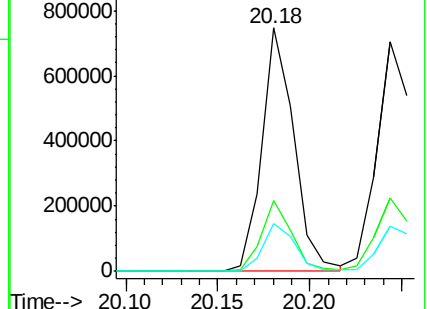
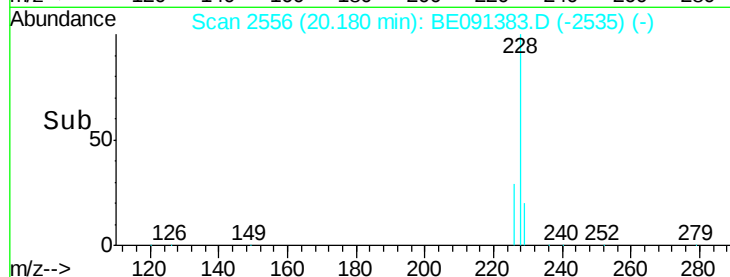
229 19.7 16.2 24.4



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: 10.00 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

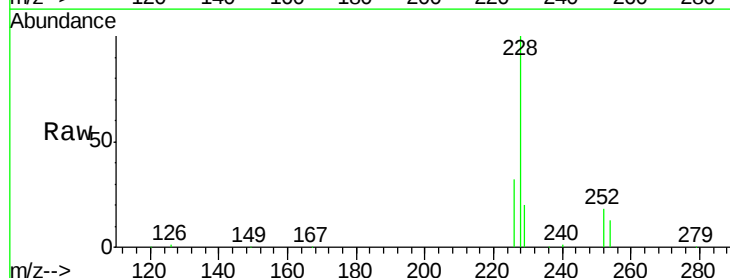
Tgt Ion:228 Resp: 961672

Ion Ratio Lower Upper

228 100

226 32.0 23.7 35.5

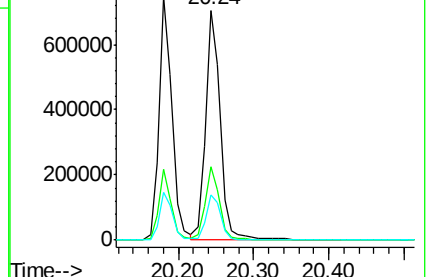
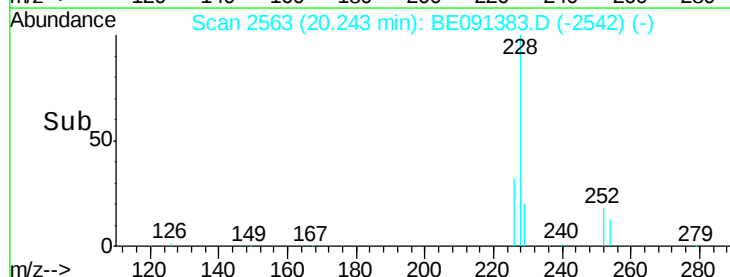
229 19.6 16.0 24.0

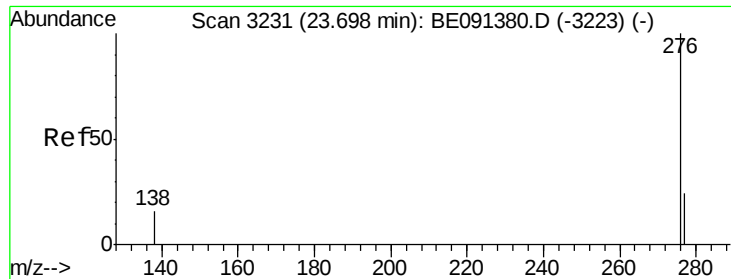


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

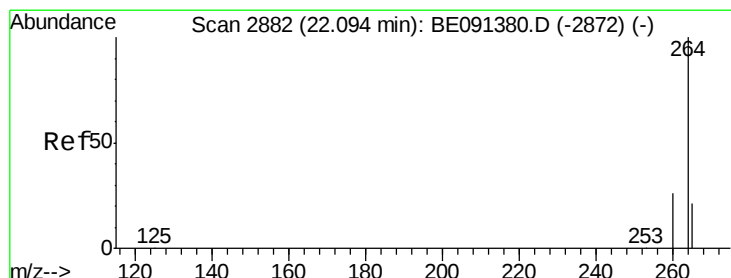
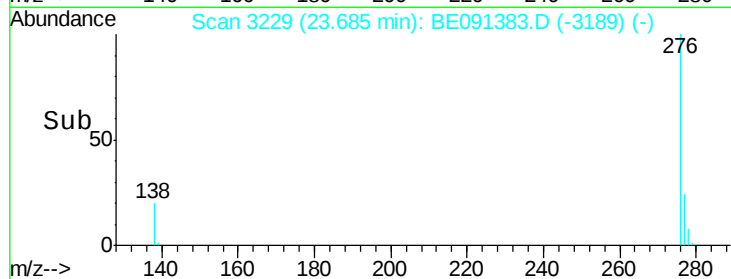
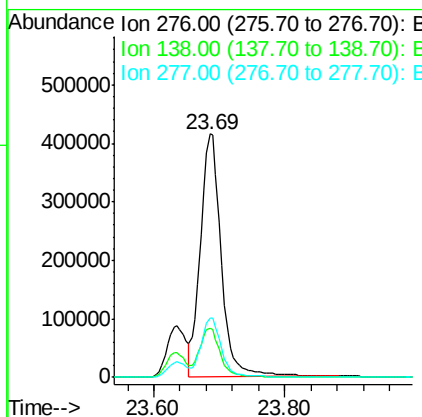
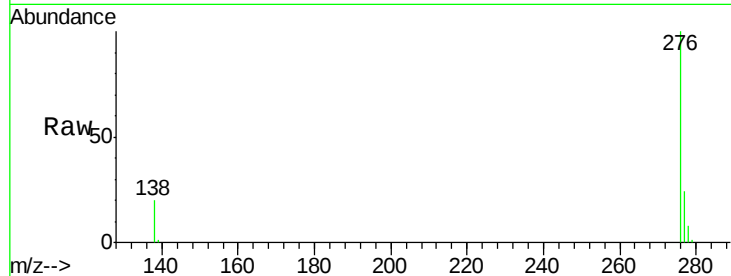




#23
Indeno(1,2,3-cd)pyrene
Concen: 14.60 ng
RT: 23.69 min Scan# 3229
Delta R.T. -0.02 min
Lab File: BE091383.D
Acq: 2 Feb 2016 18:34

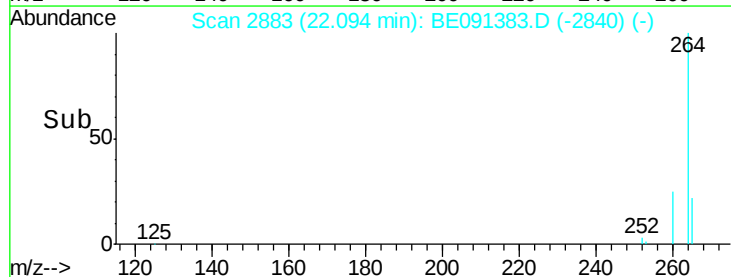
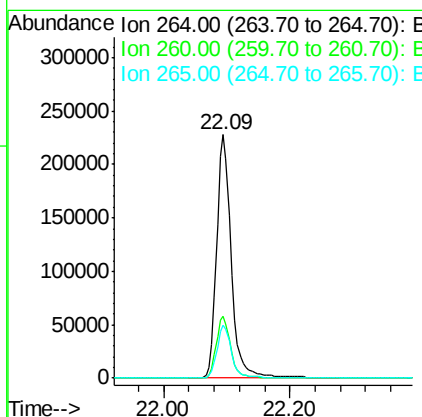
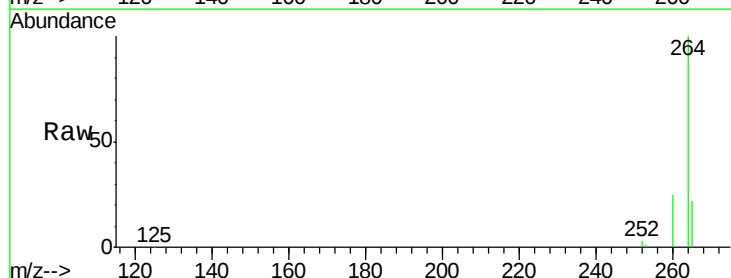
Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion:276 Resp: 917007
Ion Ratio Lower Upper
276 100
138 20.6 18.6 27.8
277 24.4 16.5 24.7



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2883
Delta R.T. -0.00 min
Lab File: BE091383.D
Acq: 2 Feb 2016 18:34

Tgt Ion:264 Resp: 367002
Ion Ratio Lower Upper
264 100
260 25.5 20.4 30.6
265 21.6 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 15.06 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

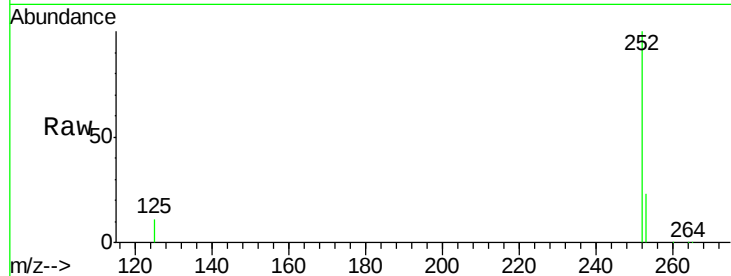
Tot Ion:252 Resp: 927813

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.2

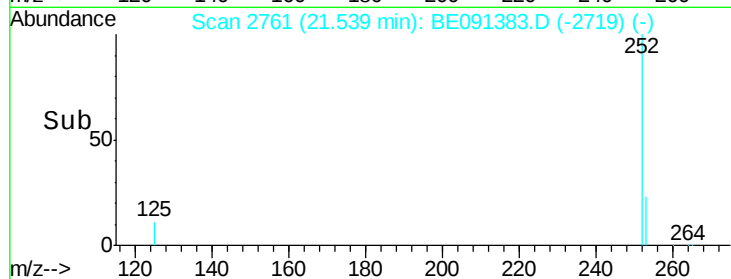
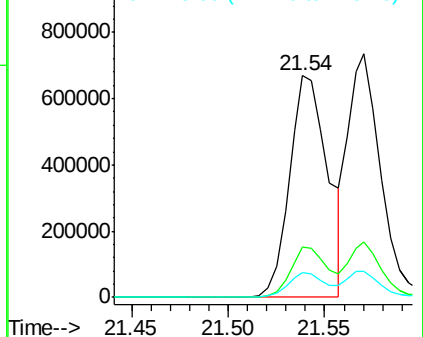
125 11.1 11.0 16.6



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: 12.62 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

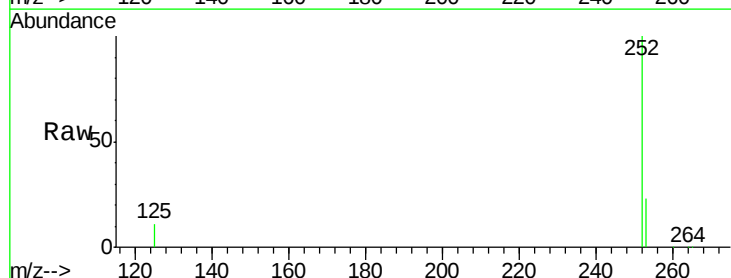
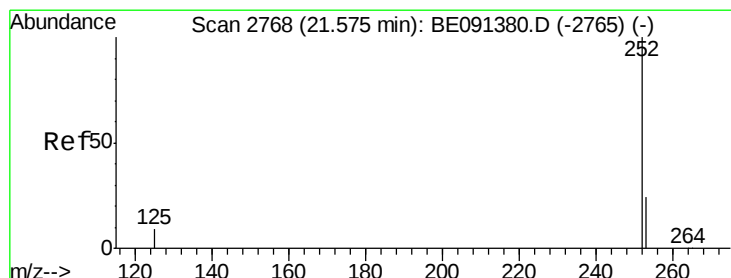
Tgt Ion:252 Resp: 908831

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

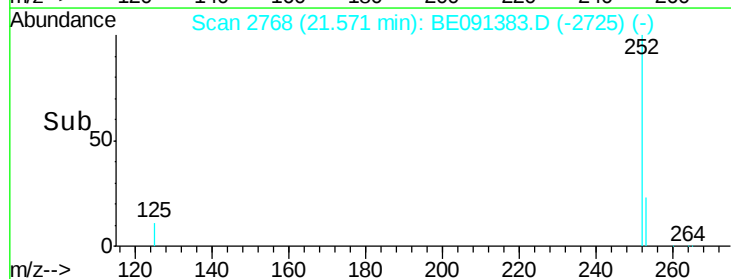
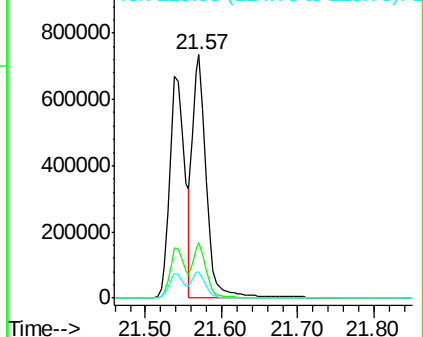
125 10.8 11.3 16.9#



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: 13.70 ng

RT: 22.00 min Scan# 2862

Delta R.T. -0.00 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

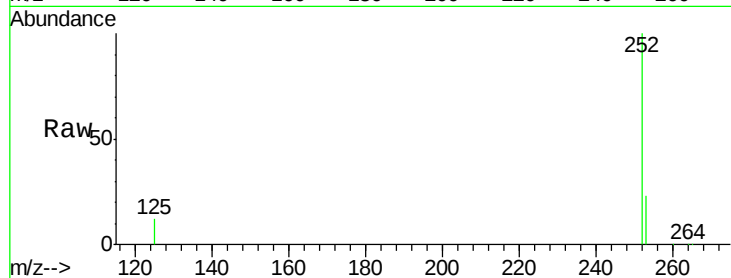
Tot Ion:252 Resp: 861994

Ion Ratio Lower Upper

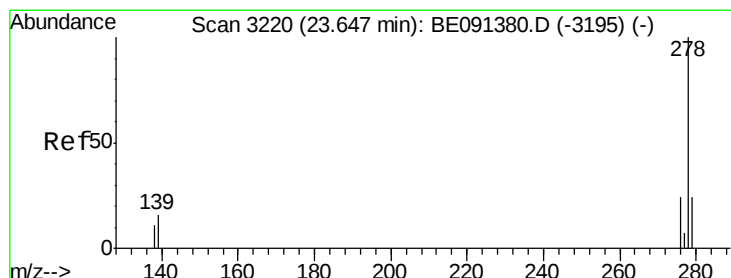
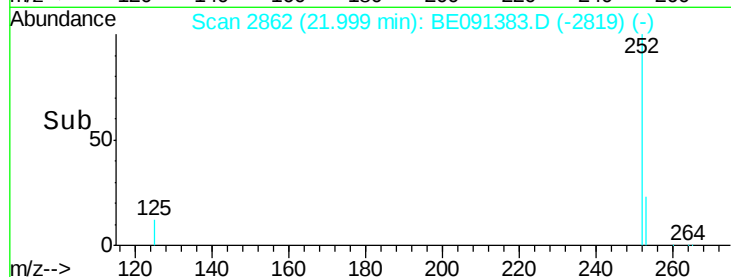
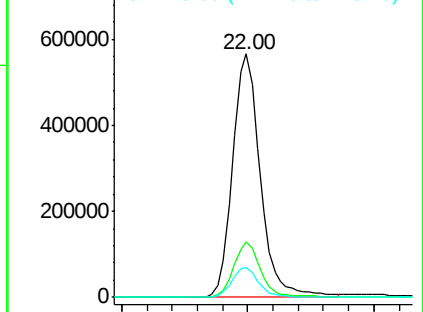
252 100

253 22.6 18.1 27.1

125 12.1 12.2 18.4#



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



#28

Dibenzo(a,h)anthracene

Concen: 18.57 ng

RT: 23.64 min Scan# 3218

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

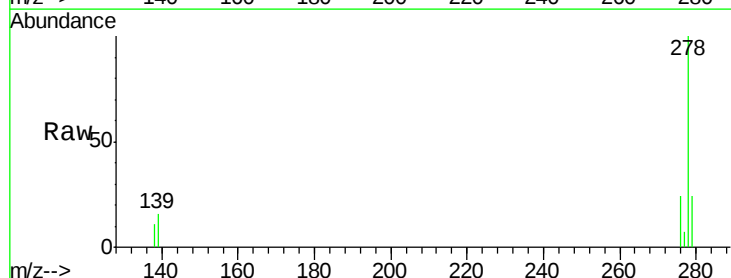
Tgt Ion:278 Resp: 867869

Ion Ratio Lower Upper

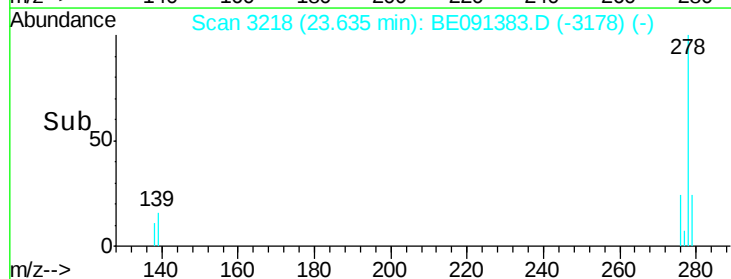
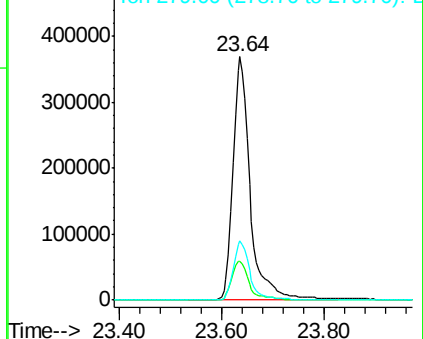
278 100

139 16.0 16.3 24.5#

279 24.4 19.4 29.2



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: 15.60 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.02 min

Lab File: BE091383.D

Acq: 2 Feb 2016 18:34

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

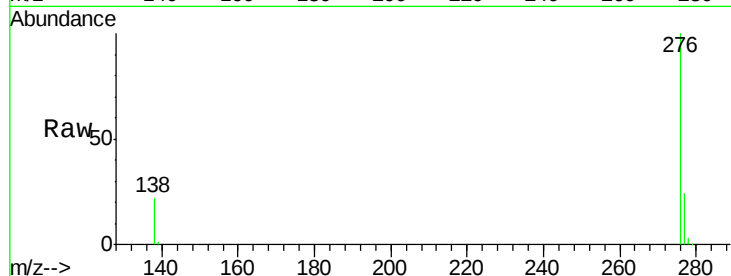
Tot Ion: 276 Resp: 928610

Ion Ratio Lower Upper

276 100

277 24.0 19.8 29.6

138 21.8 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

