

Data Path : Z:\HPCHEM1\BNA_E\Data\BE011416\
 Data File : BE091368.D
 Acq On : 15 Jan 2016 2:02
 Operator : UM/IZ
 Sample : H1123-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001MS

Quant Time: Jan 15 02:46:40 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 23:29:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	22458	5.00	ng	-0.01
4) Naphthalene-d8	9.54	136	103945	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	52528	5.00	ng	0.00
14) Phenanthrene-d10	16.07	188	146491	5.00	ng	-0.01
18) Chrysene-d12	20.22	240	162294	5.00	ng	0.00
24) Perylene-d12	22.10	264	136563	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.91	112	30044	8.16	ng	-0.03
3) Phenol-d6	6.53	99	49566	7.64	ng	-0.04
5) Nitrobenzene-d5	8.14	82	33614	5.58	ng	-0.03
9) 2,4,6-Tribromophenol	14.88	330	12738	7.00	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	73275	6.45	ng	-0.02
20) Terphenyl-d14	18.62	244	106478	4.62	ng	0.00

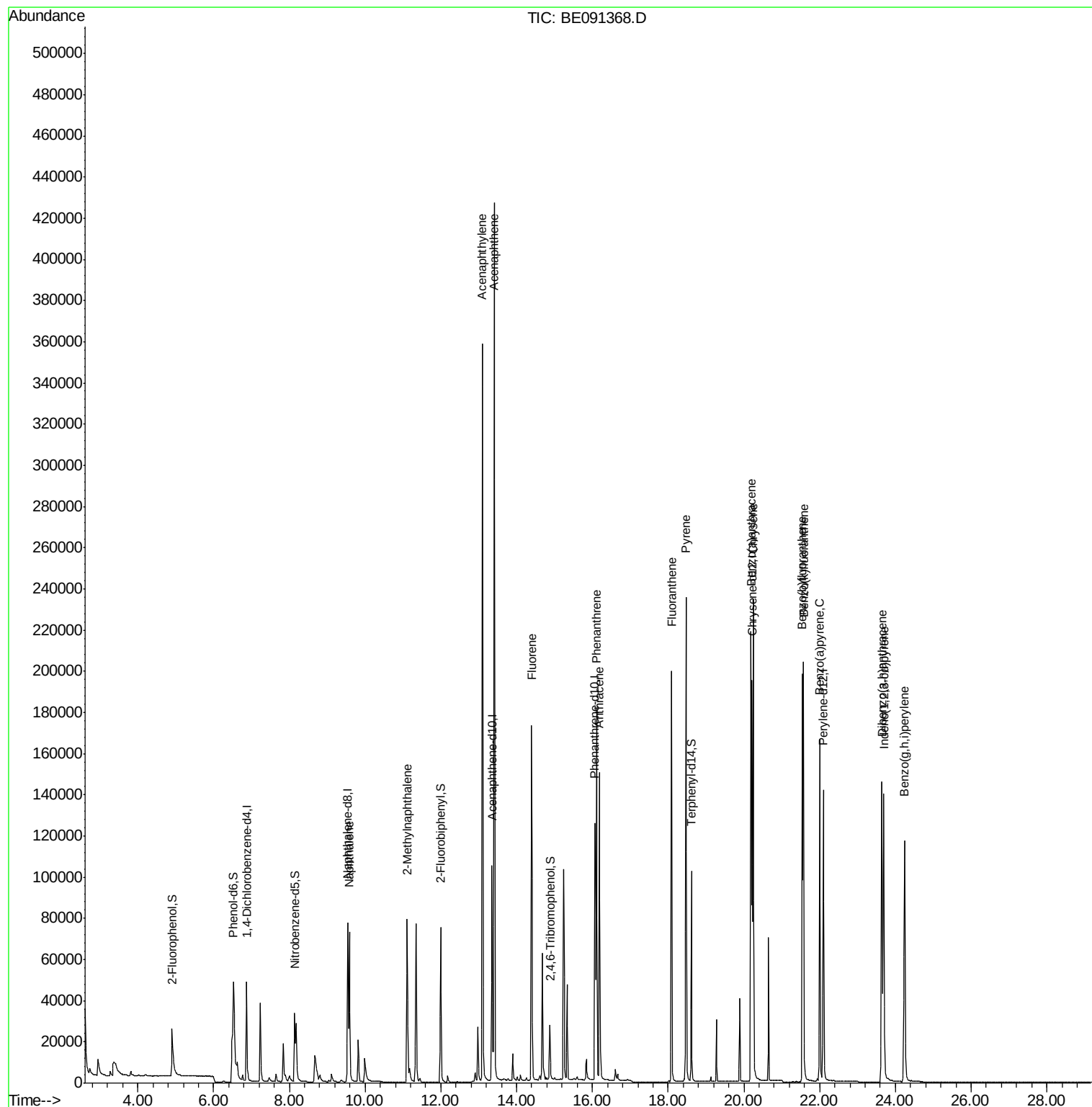
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	9.58	128	104093	4.69	ng	99
7) 2-Methylnaphthalene	11.11	142	61573	4.58	ng	96
11) Acenaphthylene	13.09	152	476056	4.87	ng	99
12) Acenaphthene	13.41	154	73221	4.91	ng	# 77
13) Fluorene	14.40	166	104363	5.00	ng	97
15) Phenanthrene	16.11	178	182569	5.04	ng	99
16) Anthracene	16.19	178	164723	4.71	ng	100
17) Fluoranthene	18.09	202	187564	4.92	ng	99
19) Pyrene	18.47	202	197901	4.95	ng	99
21) Benzo(a)anthracene	20.19	228	181911	5.17	ng	97
22) Chrysene	20.25	228	202049	5.13	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	173126	4.45	ng	96
25) Benzo(b)fluoranthene	21.54	252	178222	5.16	ng	99
26) Benzo(k)fluoranthene	21.57	252	198122	5.07	ng	98
27) Benzo(a)pyrene	22.00	252	167519	4.98	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	159081	5.16	ng	100
29) Benzo(g,h,i)perylene	24.24	276	172265	5.13	ng	99

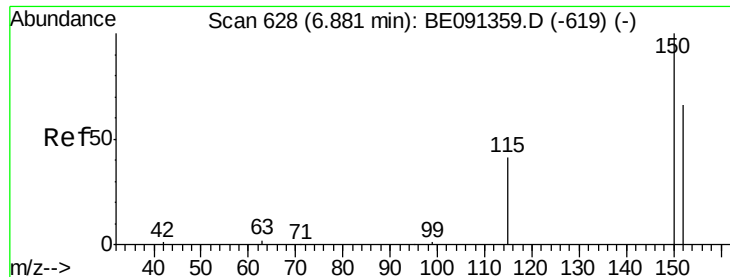
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\Data\BE011416\
Data File : BE091368.D
Acq On : 15 Jan 2016 2:02
Operator : UM/IZ
Sample : H1123-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
IMPACT-PS-001MS

Quant Time: Jan 15 02:46:40 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 14 23:29:02 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 626

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

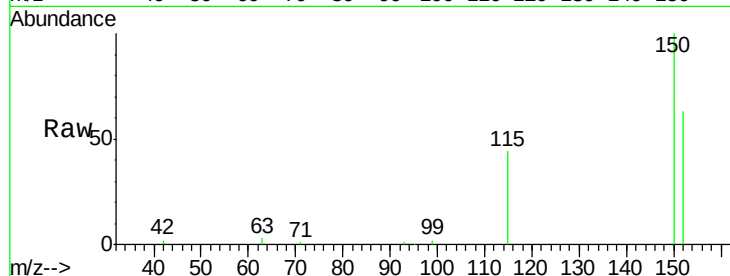
Tgt Ion:152 Resp: 22458

Ion Ratio Lower Upper

152 100

150 158.4 121.6 182.4

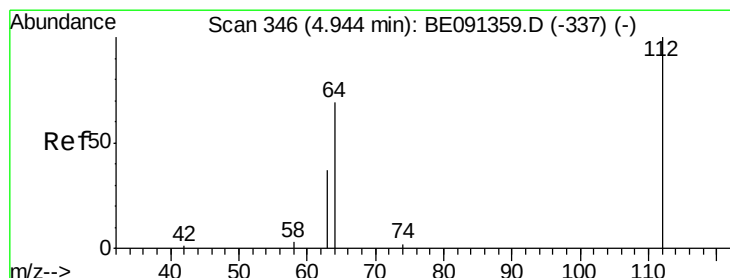
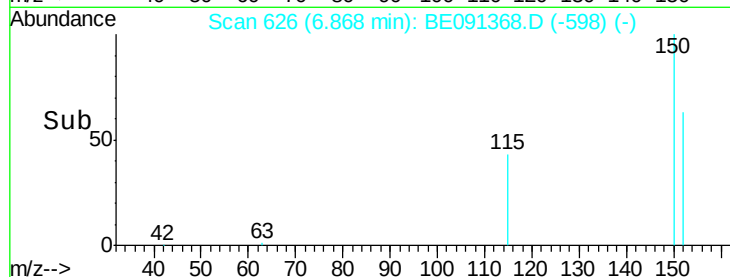
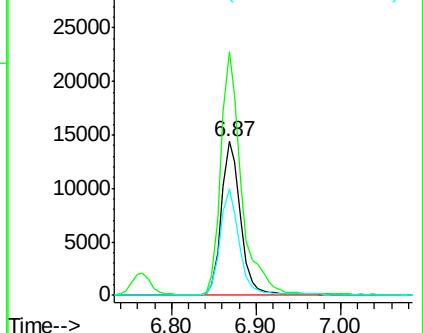
115 69.1 50.6 75.8



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: 8.16 ng

RT: 4.91 min Scan# 341

Delta R.T. -0.03 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

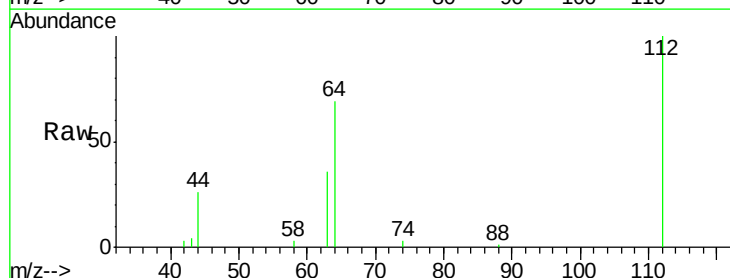
Tgt Ion:112 Resp: 30044

Ion Ratio Lower Upper

112 100

64 71.1 57.4 86.0

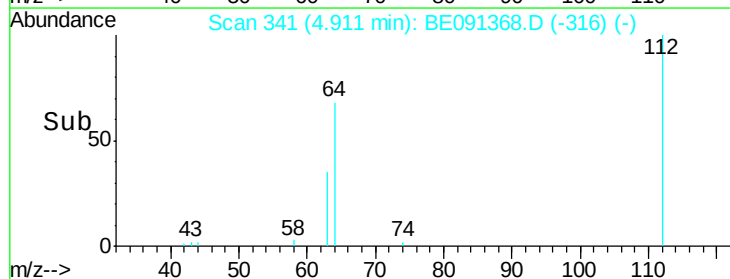
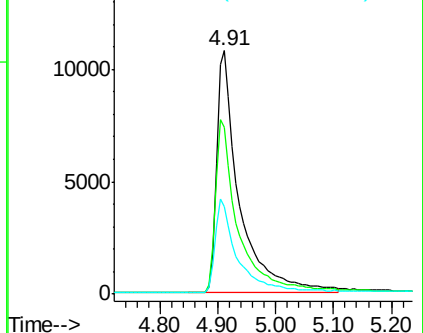
63 37.9 32.2 48.2

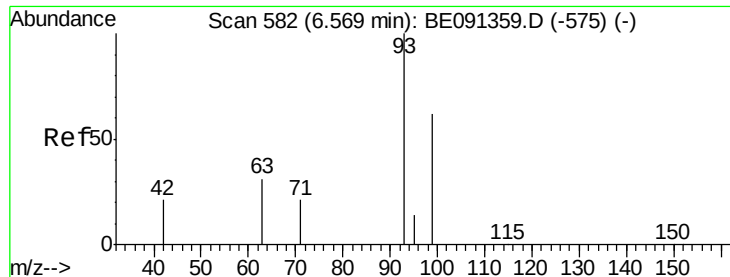


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 7.64 ng

RT: 6.53 min Scan# 576

Delta R.T. -0.04 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

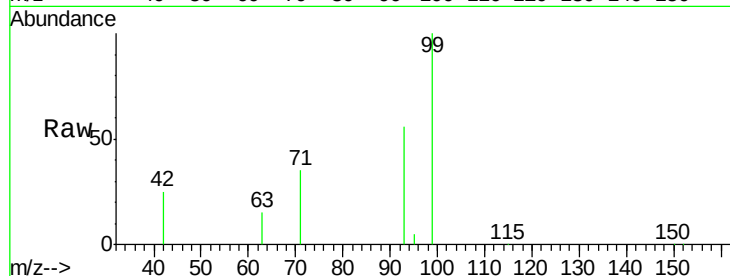
Tgt Ion: 99 Resp: 49566

Ion Ratio Lower Upper

99 100

42 26.7 22.9 34.3

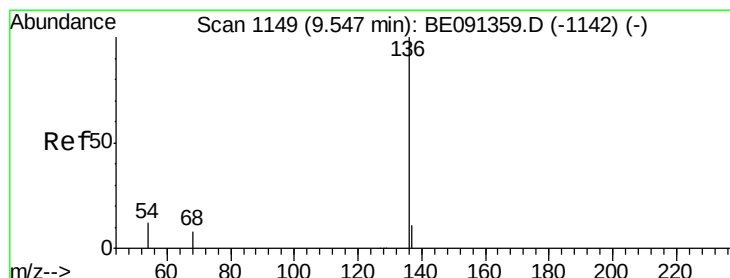
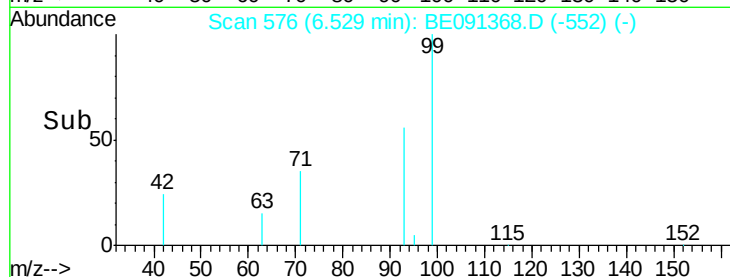
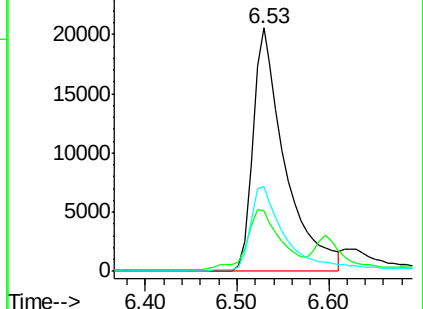
71 39.6 35.4 53.2



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: 9.54 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Tgt Ion: 136 Resp: 103945

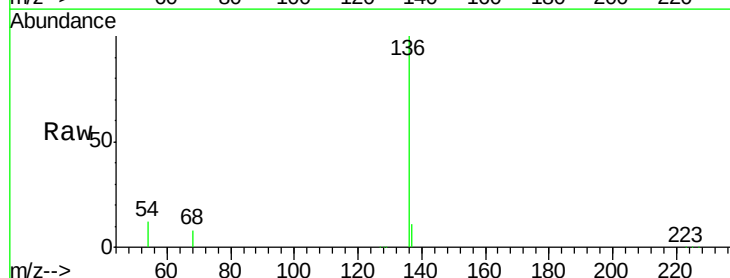
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 12.4 9.8 14.6

68 8.5 6.6 10.0

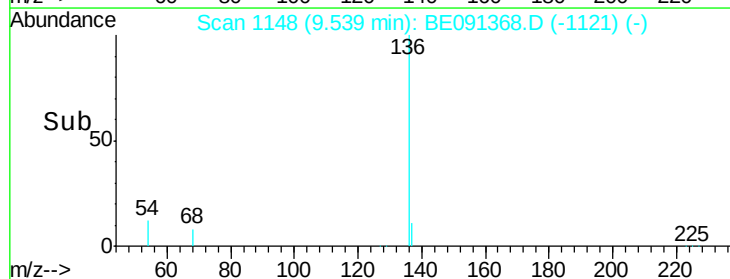
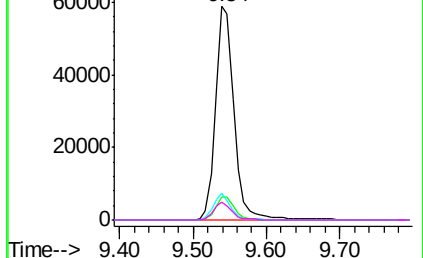


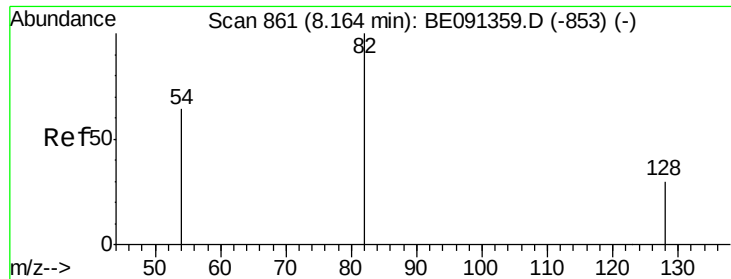
Abundance Ion 136.00 (135.70 to 136.70): E

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: 5.58 ng

RT: 8.14 min Scan# 855

Delta R.T. -0.03 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

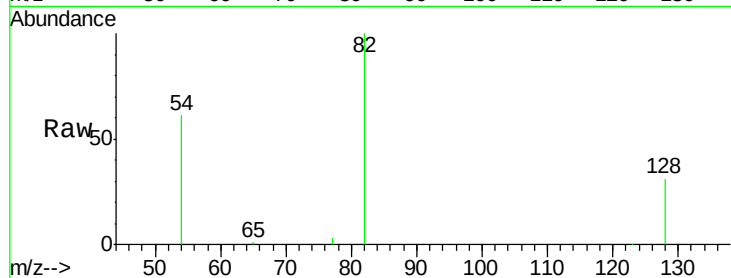
Tgt Ion: 82 Resp: 33614

Ion Ratio Lower Upper

82 100

128 30.9 24.6 36.8

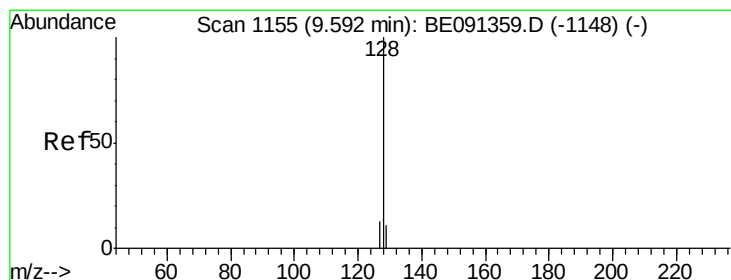
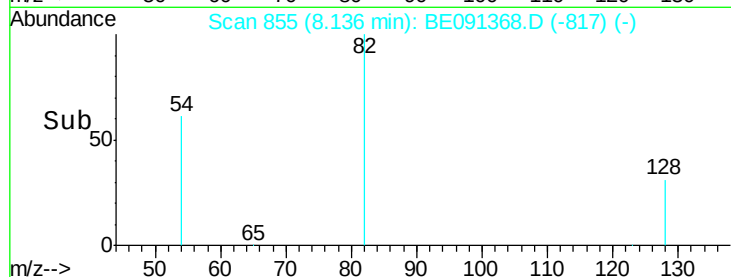
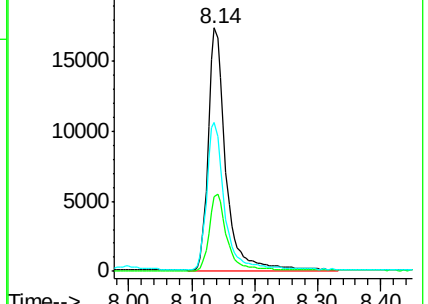
54 61.0 52.7 79.1



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: 4.69 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

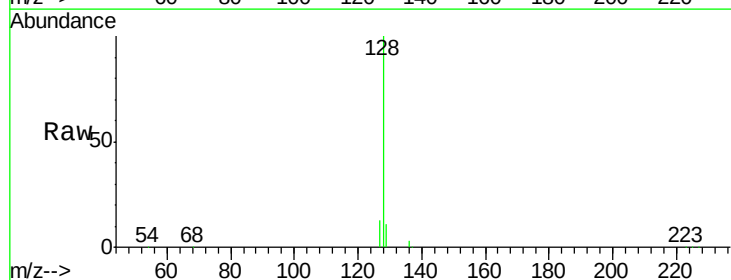
Tgt Ion: 128 Resp: 104093

Ion Ratio Lower Upper

128 100

129 11.2 9.3 13.9

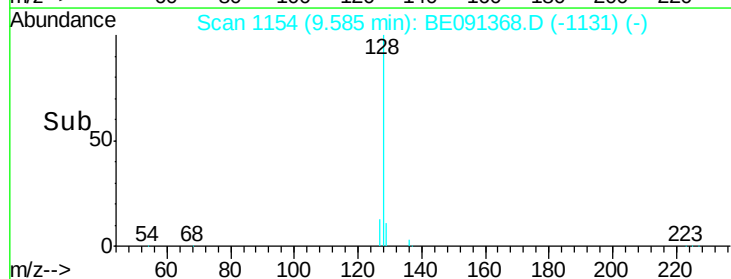
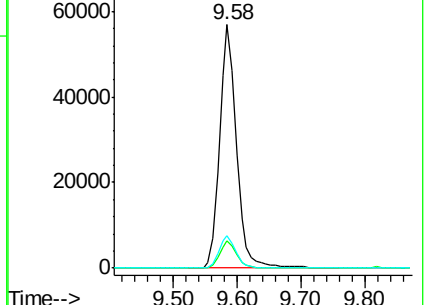
127 13.1 10.6 15.8

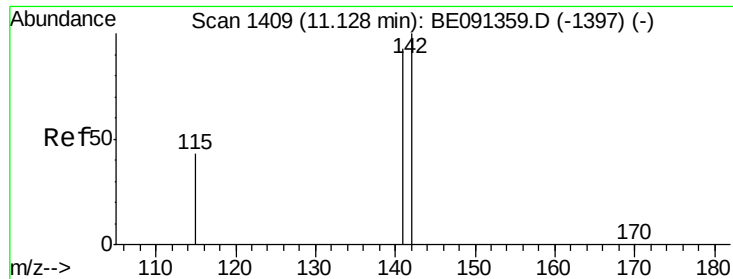


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 4.58 ng

RT: 11.11 min Scan# 1405

Delta R.T. -0.02 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

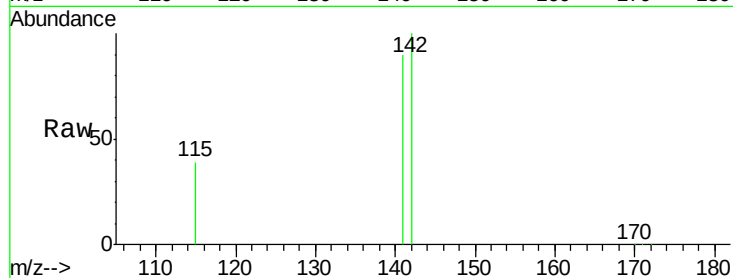
Tgt Ion:142 Resp: 61573

Ion Ratio Lower Upper

142 100

141 90.1 74.5 111.7

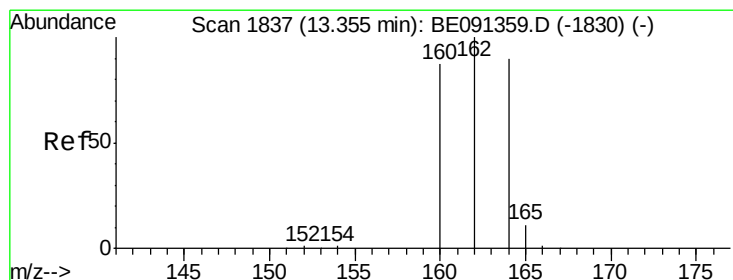
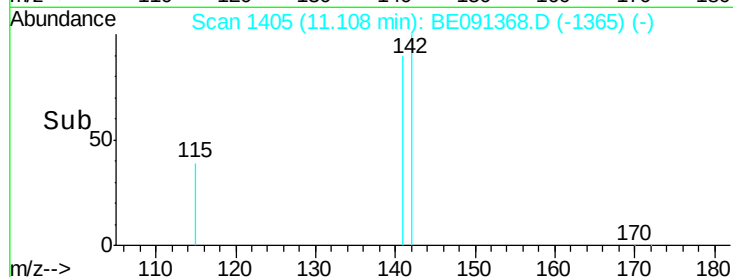
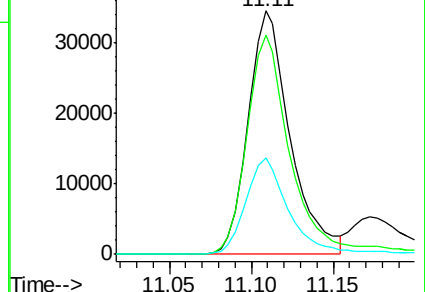
115 39.3 35.2 52.8



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: 13.35 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

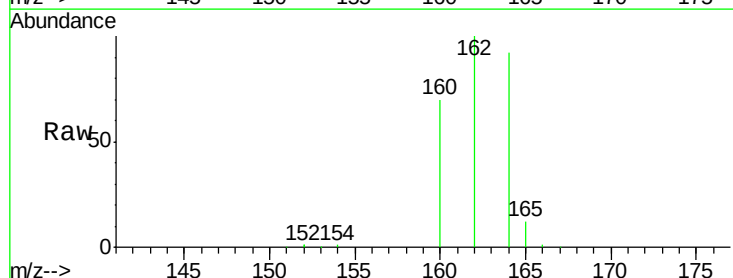
Tgt Ion:164 Resp: 52528

Ion Ratio Lower Upper

164 100

162 108.8 88.5 132.7

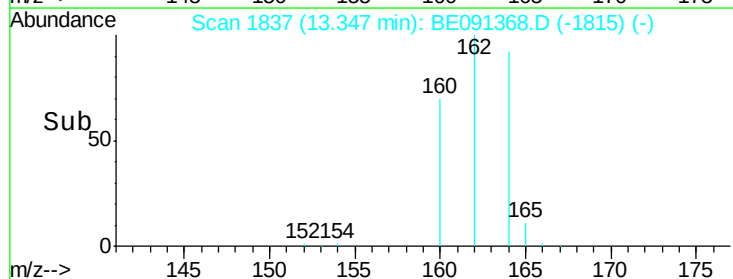
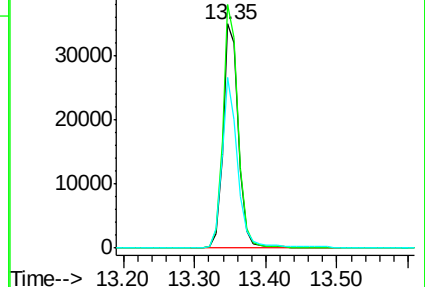
160 76.5 76.7 115.1#

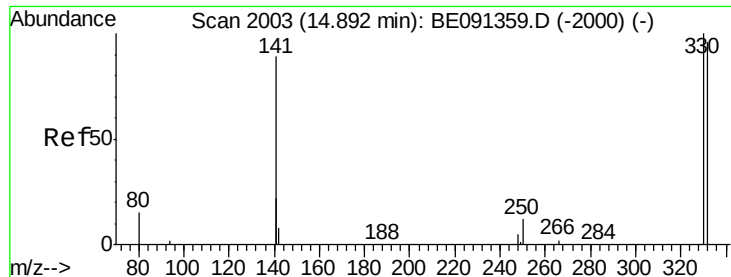


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 7.00 ng

RT: 14.88 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

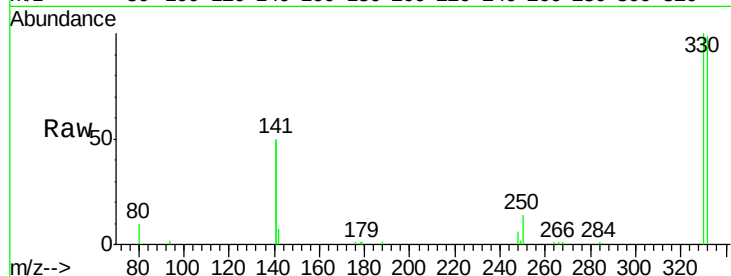
Tgt Ion:330 Resp: 12738

Ion Ratio Lower Upper

330 100

332 96.7 78.6 118.0

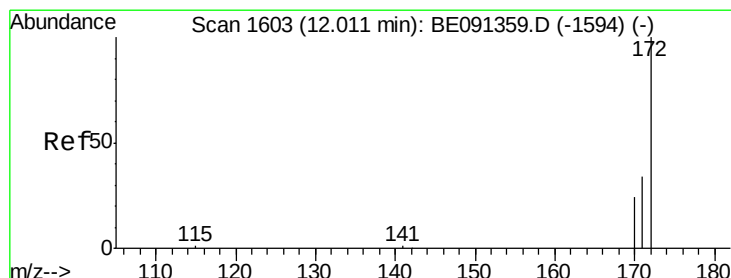
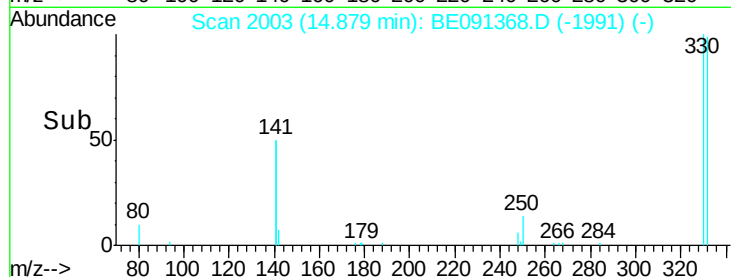
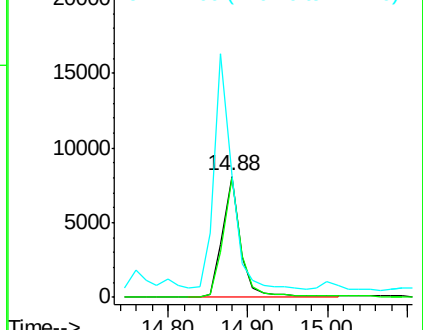
141 207.5 147.8 221.8



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: 6.45 ng

RT: 12.00 min Scan# 1600

Delta R.T. -0.02 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

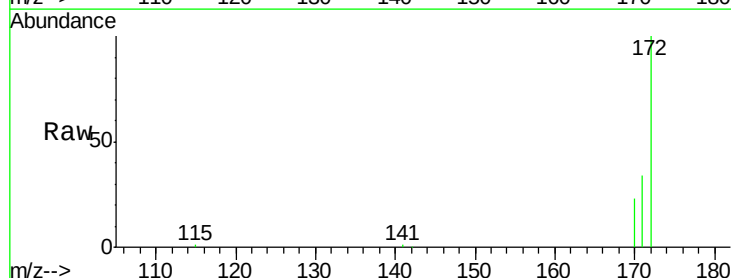
Tgt Ion:172 Resp: 73275

Ion Ratio Lower Upper

172 100

171 33.9 27.3 40.9

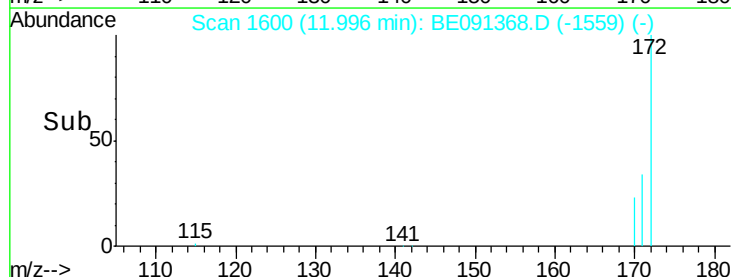
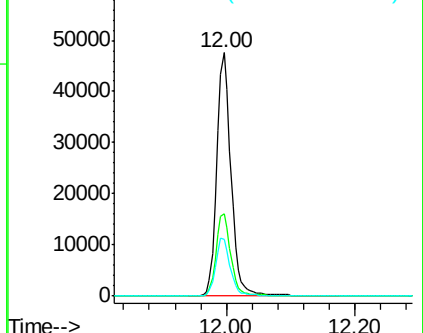
170 23.3 19.8 29.6

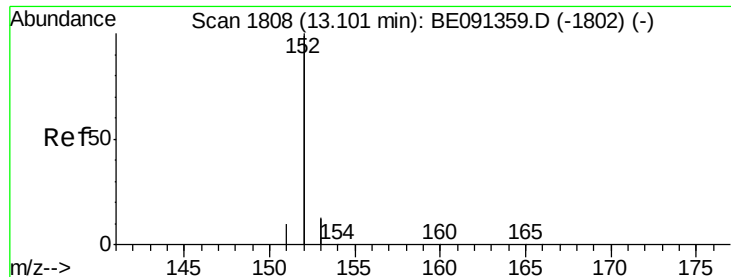


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 4.87 ng

RT: 13.09 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

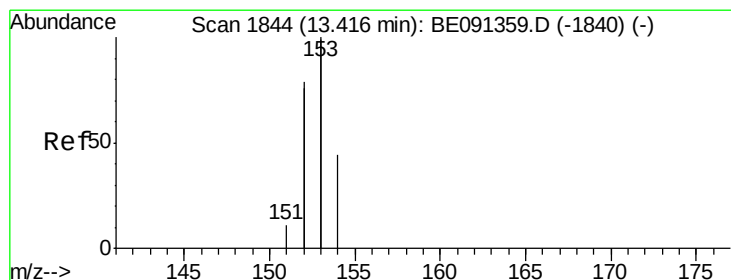
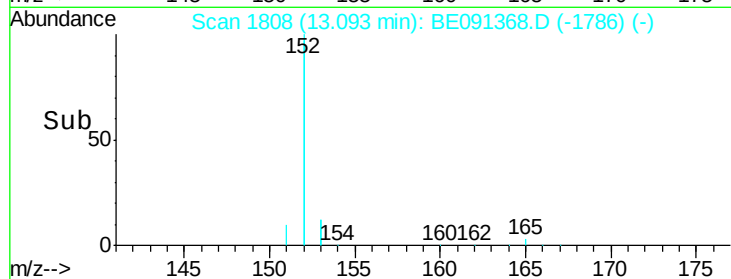
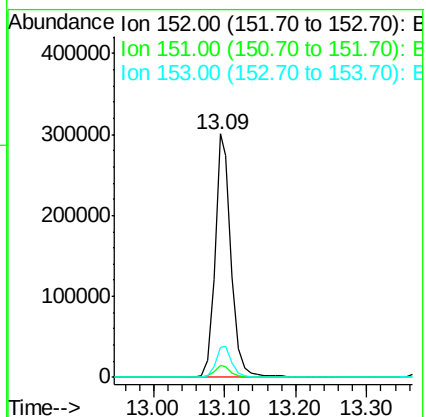
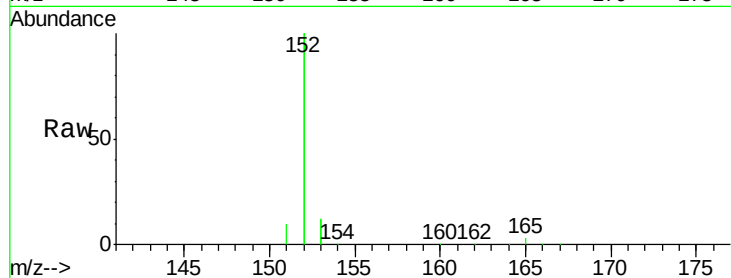
Tgt Ion:152 Resp: 476056

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

153 12.9 10.1 15.1



#12

Acenaphthene

Concen: 4.91 ng

RT: 13.41 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

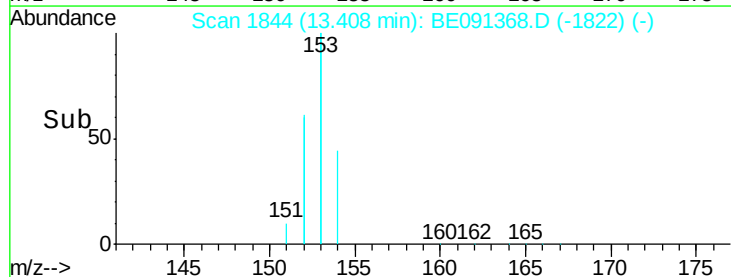
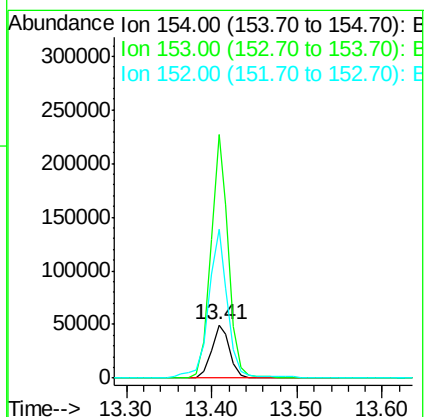
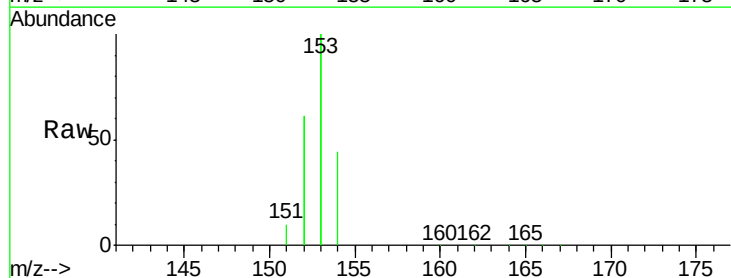
Tgt Ion:154 Resp: 73221

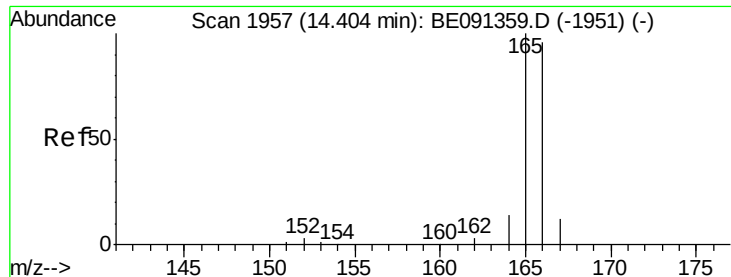
Ion Ratio Lower Upper

154 100

153 445.6 370.2 555.4

152 290.4 310.5 465.7#





#13

Fluorene

Concen: 5.00 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

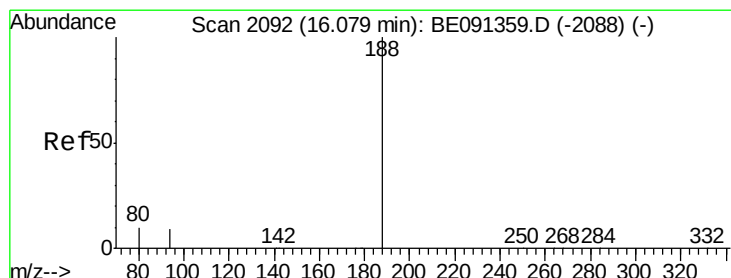
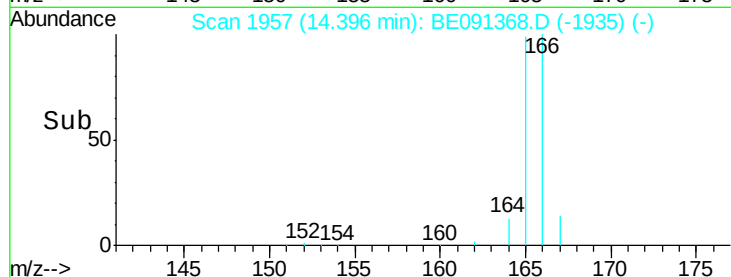
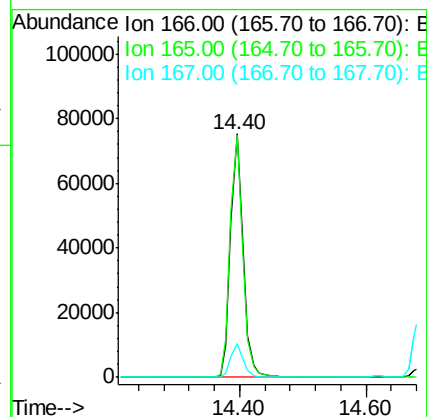
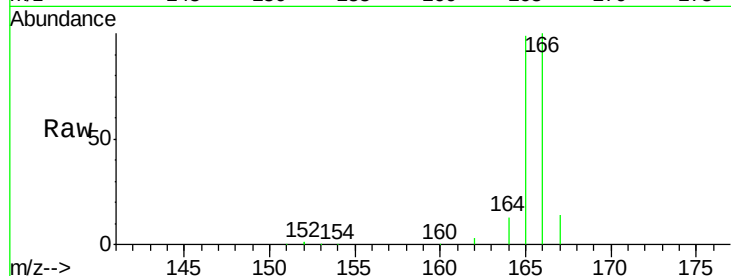
Tgt Ion:166 Resp: 104363

Ion Ratio Lower Upper

166 100

165 100.0 83.0 124.6

167 13.5 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.07 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

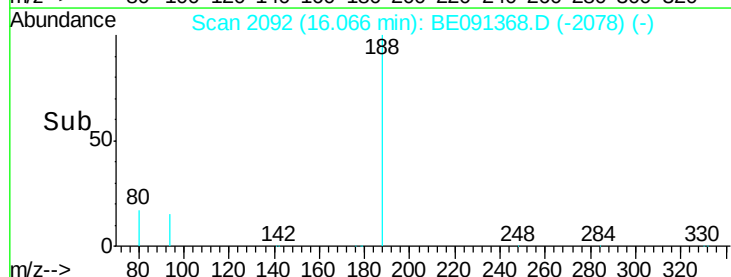
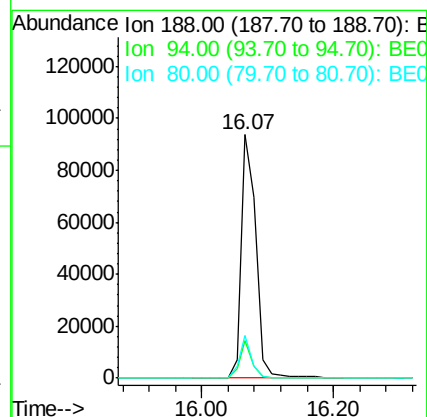
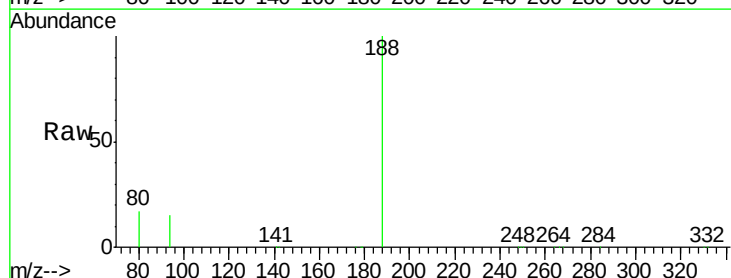
Tgt Ion:188 Resp: 146491

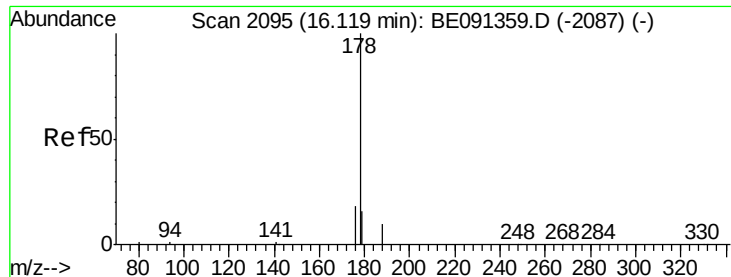
Ion Ratio Lower Upper

188 100

94 15.3 7.5 11.3#

80 17.3 8.2 12.2#





#15

Phenanthrene

Concen: 5.04 ng

RT: 16.11 min Scan# 2095

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

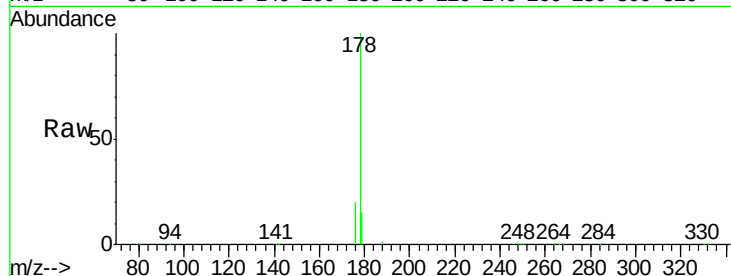
Tgt Ion:178 Resp: 182569

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

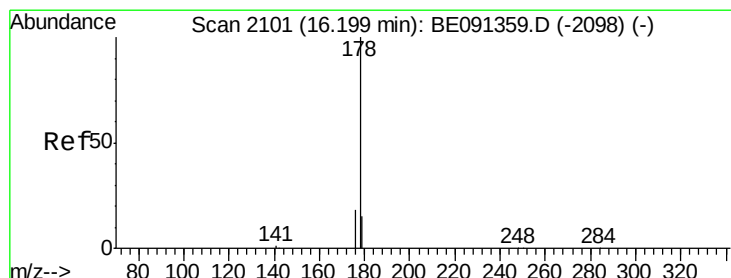
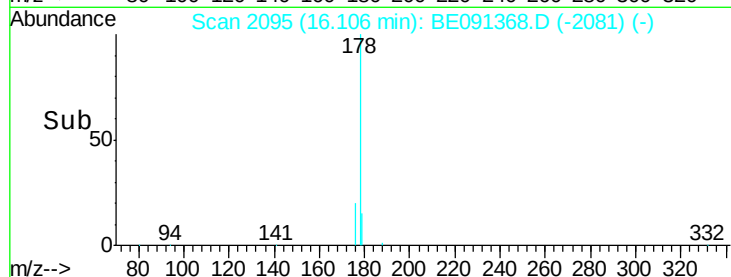
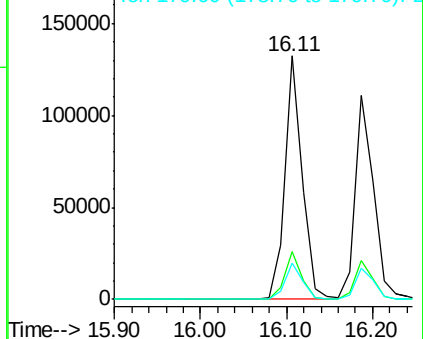
179 15.2 12.8 19.2



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: 4.71 ng

RT: 16.19 min Scan# 2101

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

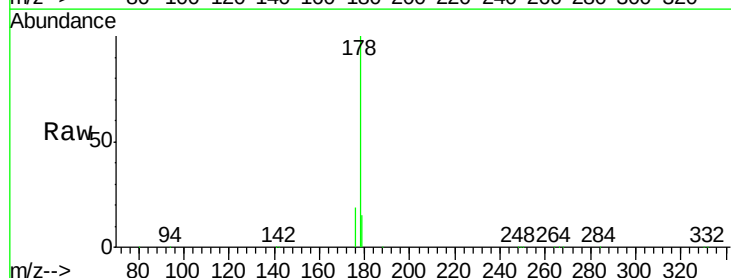
Tgt Ion:178 Resp: 164723

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

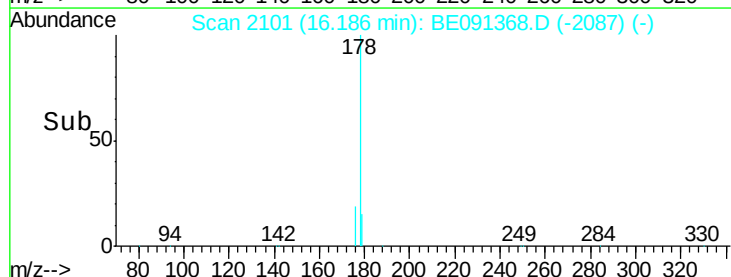
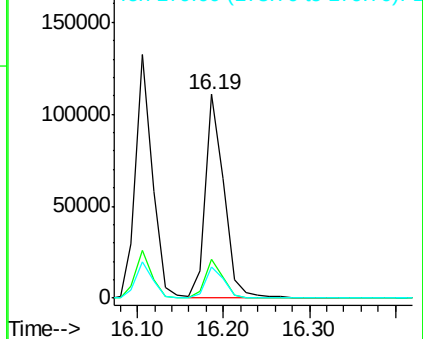
179 15.7 12.4 18.6

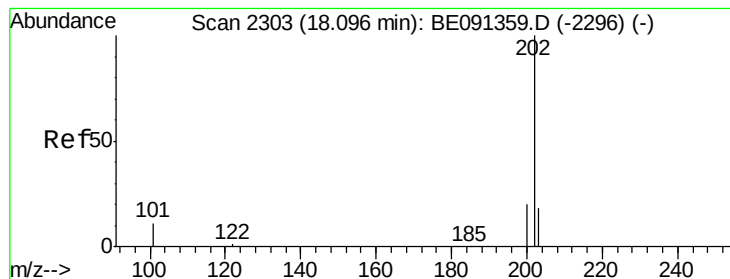


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 4.92 ng

RT: 18.09 min Scan# 2303

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

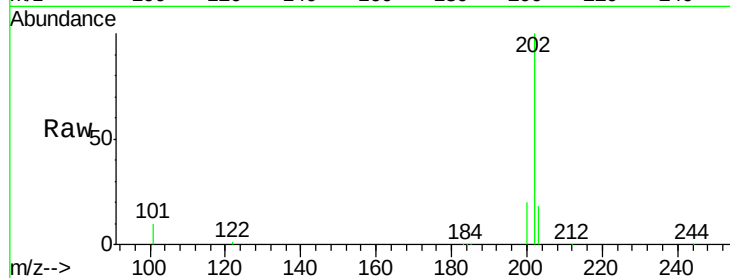
Tgt Ion:202 Resp: 187564

Ion Ratio Lower Upper

202 100

101 14.0 11.0 16.4

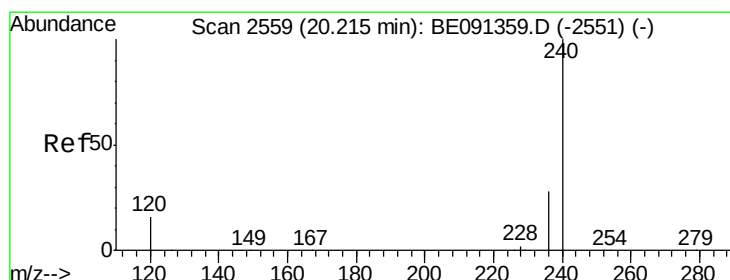
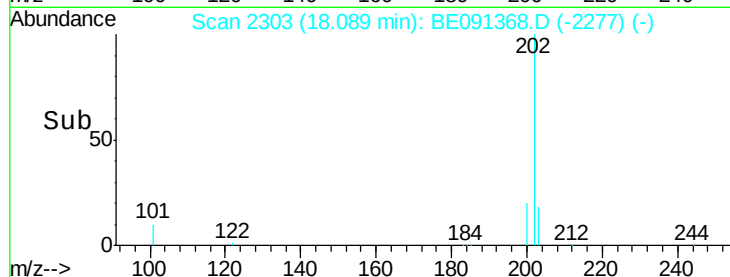
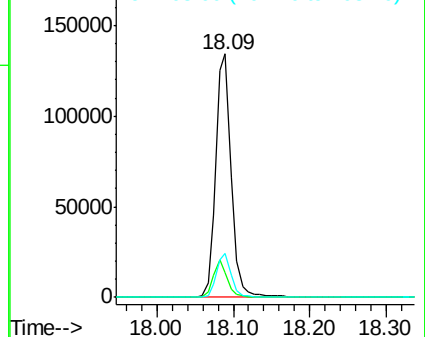
203 17.1 13.9 20.9



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: BE091368.D

Acq: 15 Jan 2016 2:02

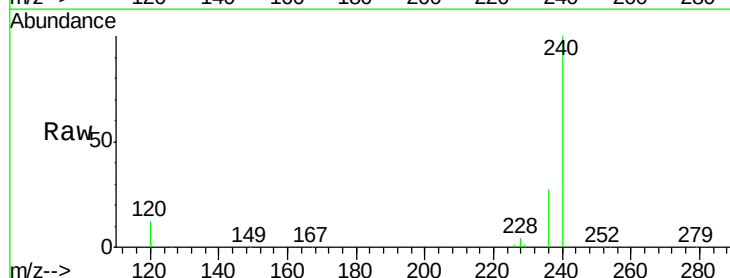
Tgt Ion:240 Resp: 162294

Ion Ratio Lower Upper

240 100

120 12.2 12.6 19.0#

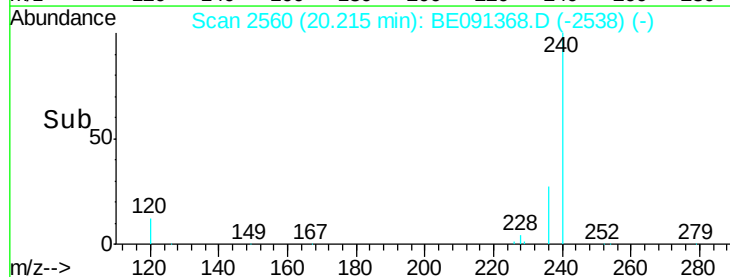
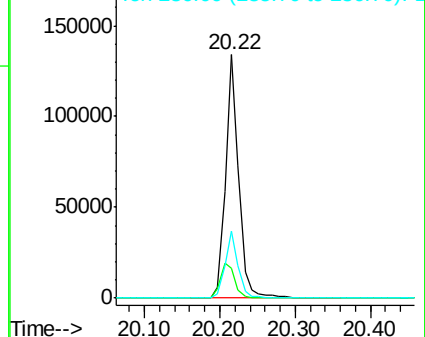
236 27.3 22.7 34.1

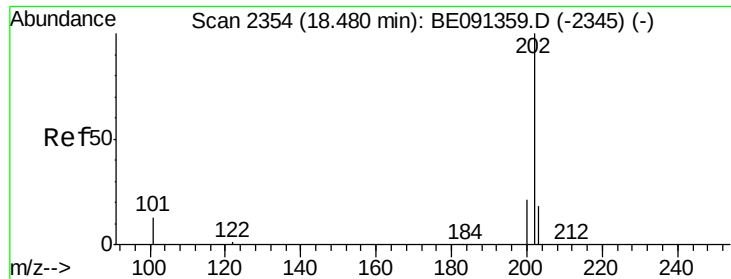


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pyrene

Concen: 4.95 ng

RT: 18.47 min Scan# 2354

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

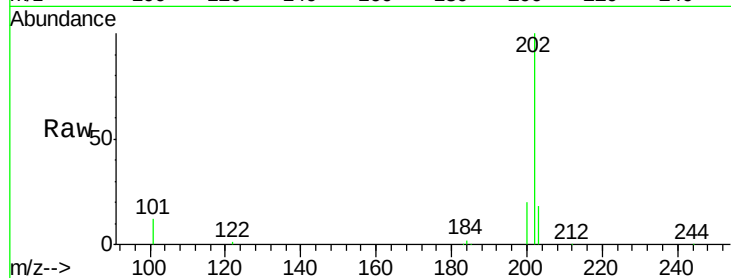
Tgt Ion:202 Resp: 197901

Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

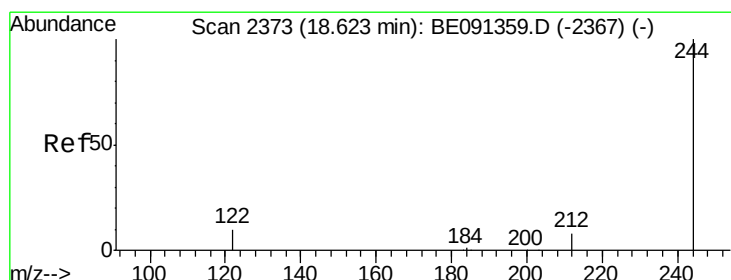
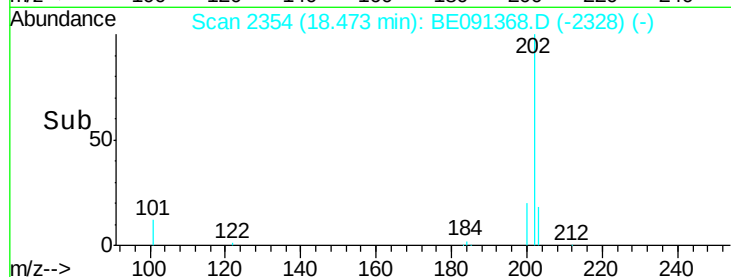
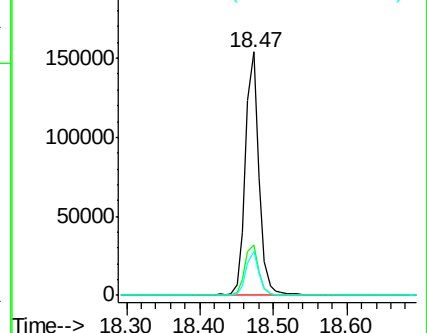
203 17.2 14.2 21.4



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: 4.62 ng

RT: 18.62 min Scan# 2373

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

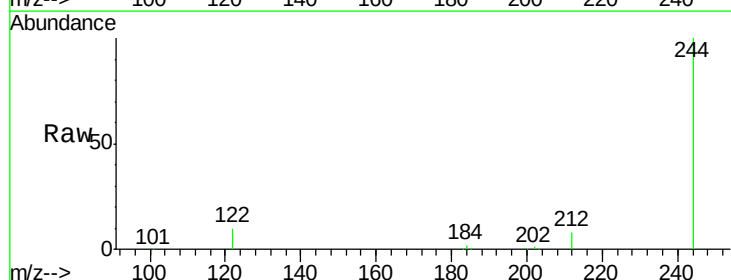
Tgt Ion:244 Resp: 106478

Ion Ratio Lower Upper

244 100

212 8.2 7.0 10.4

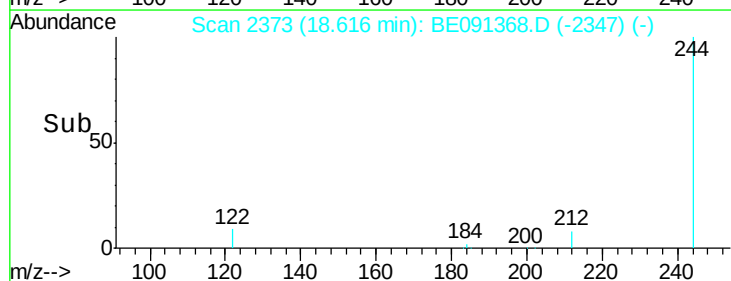
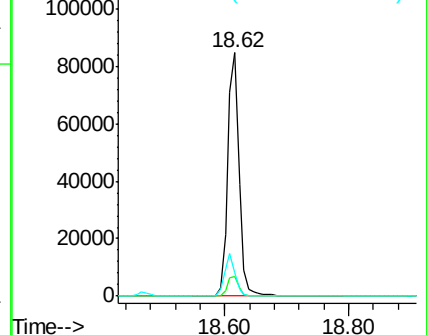
122 9.5 8.5 12.7

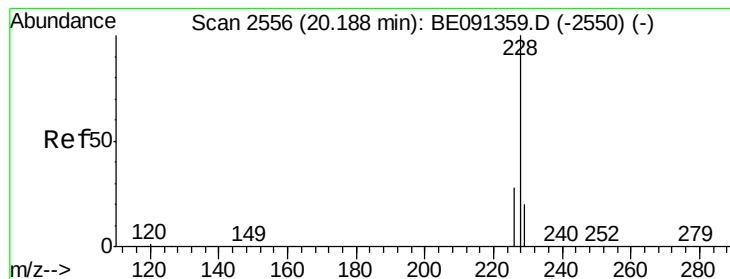


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 5.17 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

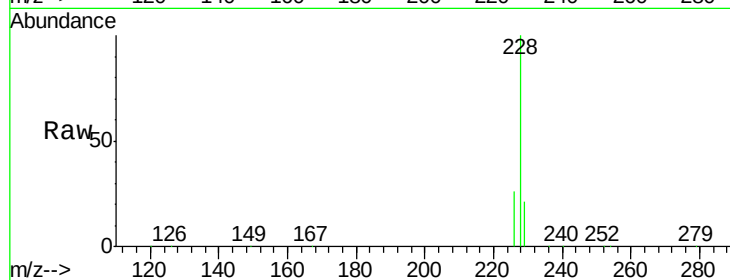
Tgt Ion:228 Resp: 181911

Ion Ratio Lower Upper

228 100

226 25.9 22.5 33.7

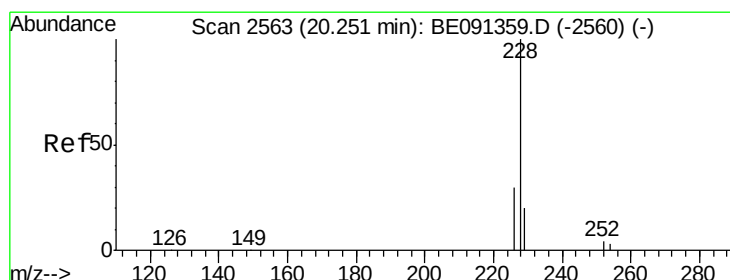
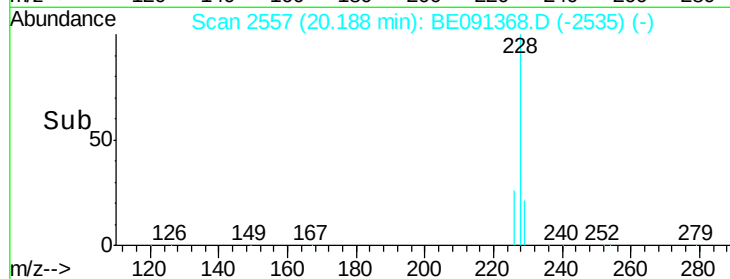
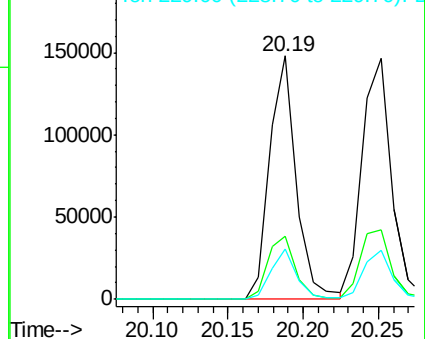
229 20.9 16.2 24.4



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: 5.13 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

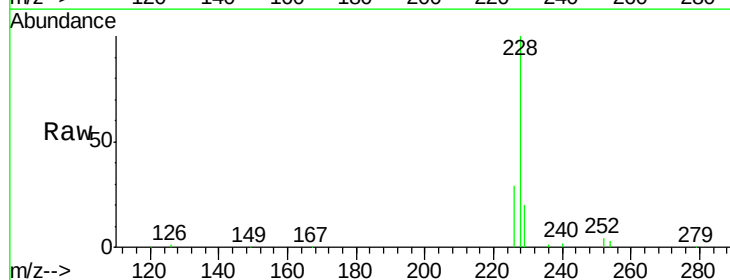
Tgt Ion:228 Resp: 202049

Ion Ratio Lower Upper

228 100

226 28.9 23.7 35.5

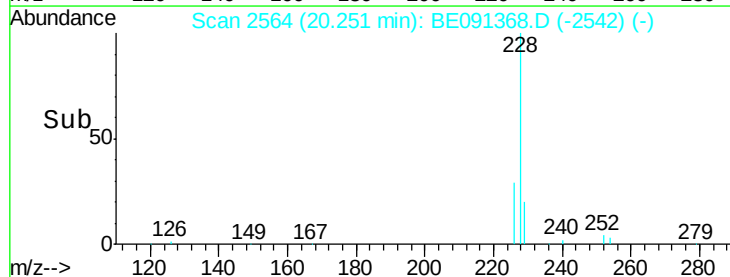
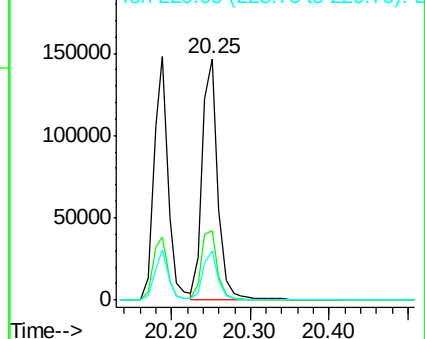
229 20.5 16.0 24.0

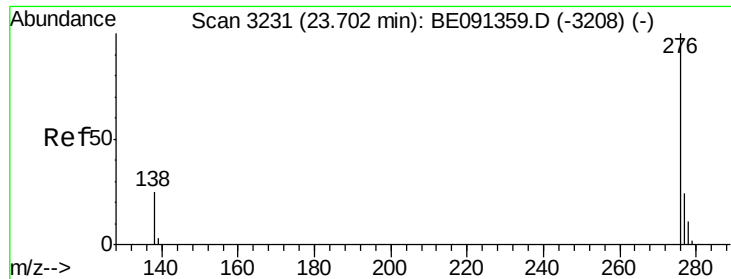


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

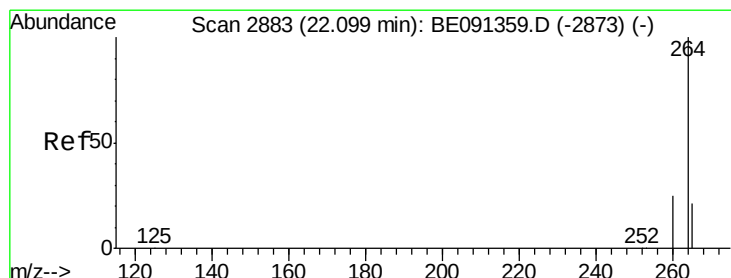
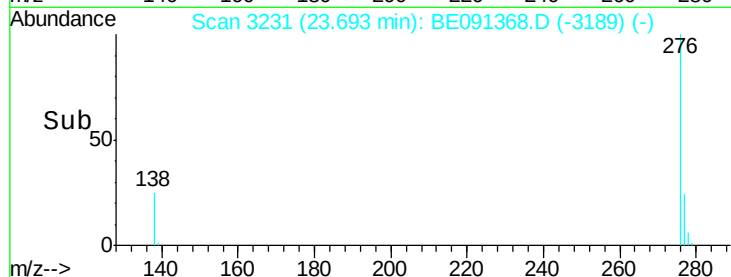
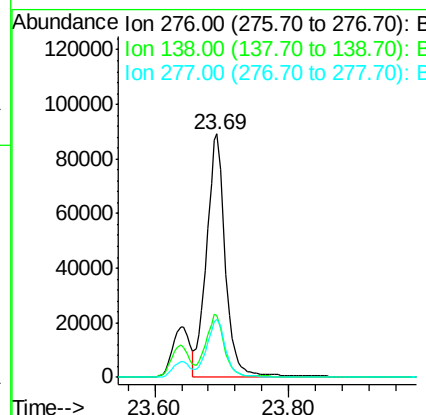
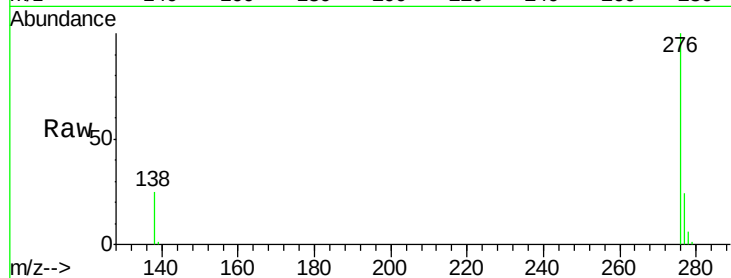




#23
 Indeno(1,2,3-cd)pyrene
 Concen: 4.45 ng
 RT: 23.69 min Scan# 3231
 Delta R.T. -0.01 min
 Lab File: BE091368.D
 Acq: 15 Jan 2016 2:02

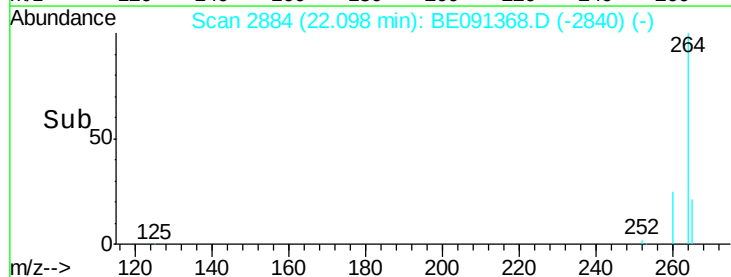
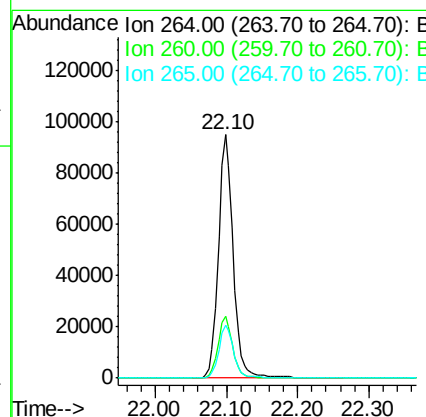
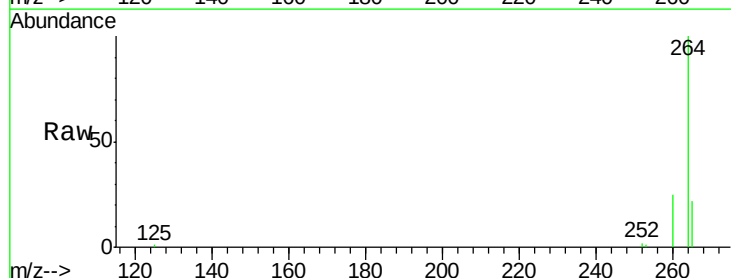
Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001MS

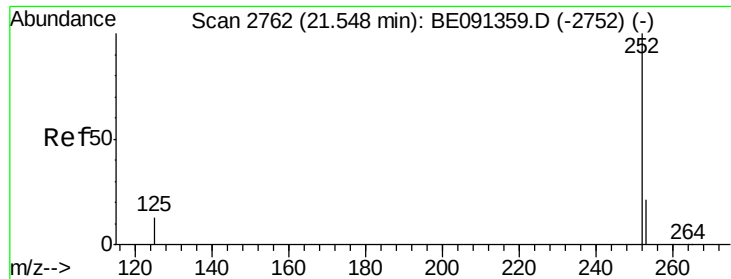
Tgt Ion: 276 Resp: 173126
 Ion Ratio Lower Upper
 276 100
 138 24.9 18.6 27.8
 277 23.1 16.5 24.7



#24
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.10 min Scan# 2884
 Delta R.T. -0.00 min
 Lab File: BE091368.D
 Acq: 15 Jan 2016 2:02

Tgt Ion: 264 Resp: 136563
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.4 30.6
 265 21.5 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 5.16 ng

RT: 21.54 min Scan# 2762

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

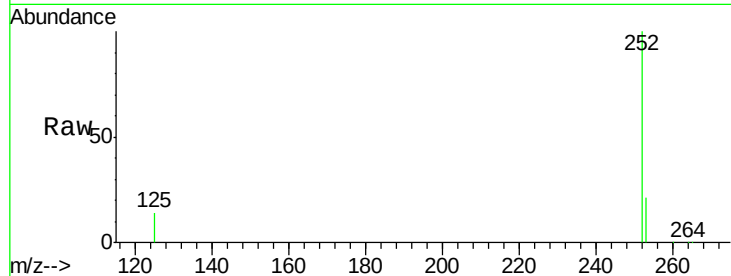
Tgt Ion:252 Resp: 178222

Ion Ratio Lower Upper

252 100

253 21.5 17.4 26.2

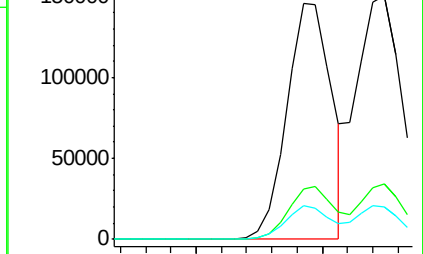
125 14.3 11.0 16.6



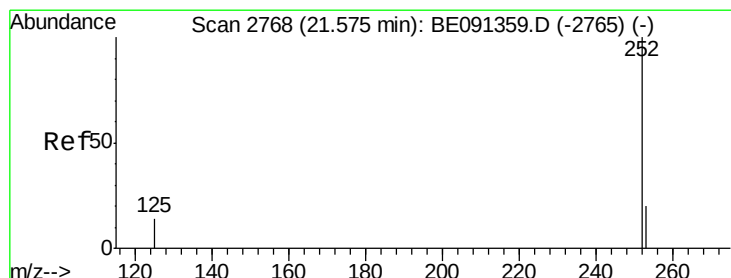
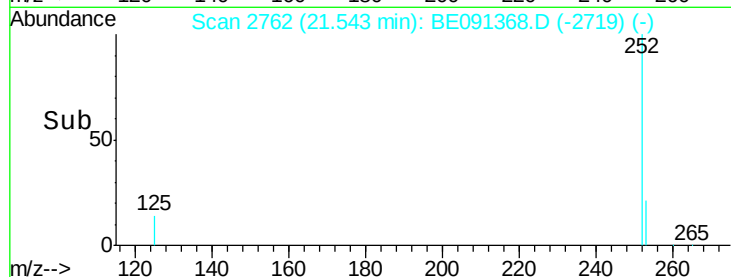
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#26

Benzo(k)fluoranthene

Concen: 5.07 ng

RT: 21.57 min Scan# 2769

Delta R.T. -0.00 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

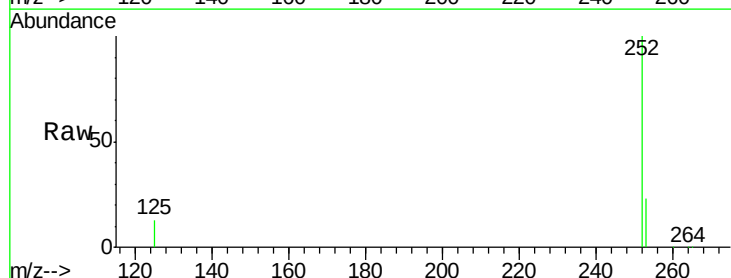
Tgt Ion:252 Resp: 198122

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

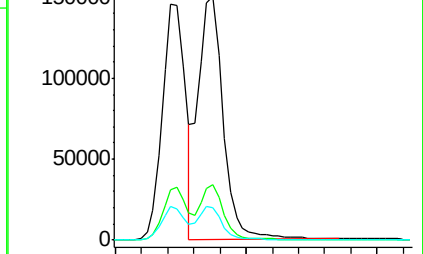
125 13.3 11.3 16.9



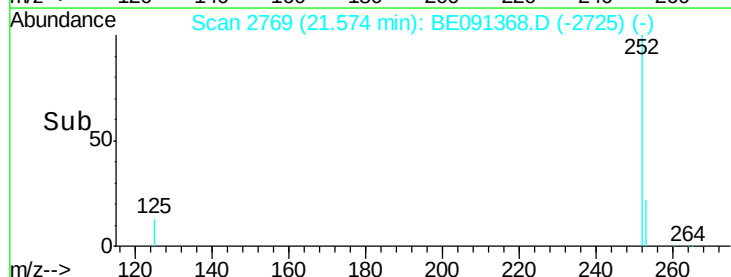
Abundance Ion 252.00 (251.70 to 252.70): E

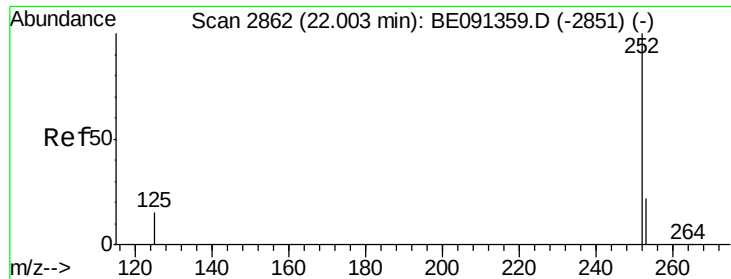
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#27

Benzo(a)pyrene

Concen: 4.98 ng

RT: 22.00 min Scan# 2863

Delta R.T. -0.00 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS

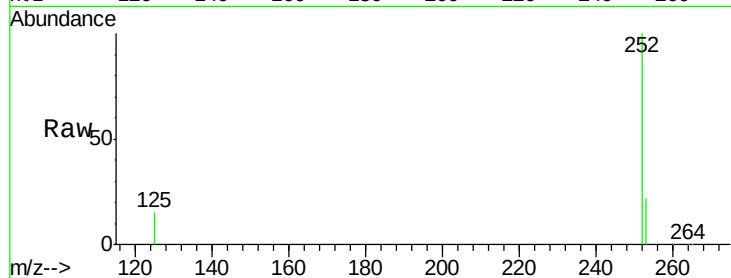
Tgt Ion: 252 Resp: 167519

Ion Ratio Lower Upper

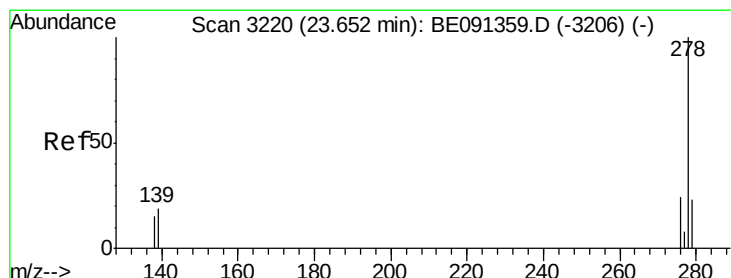
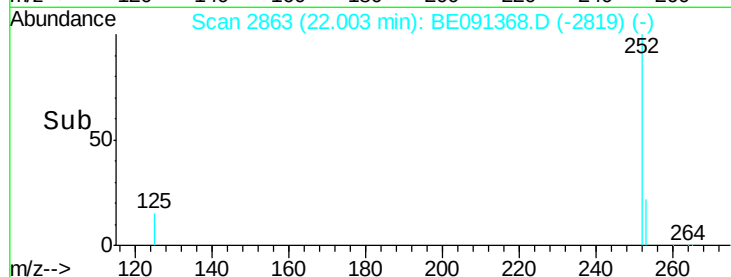
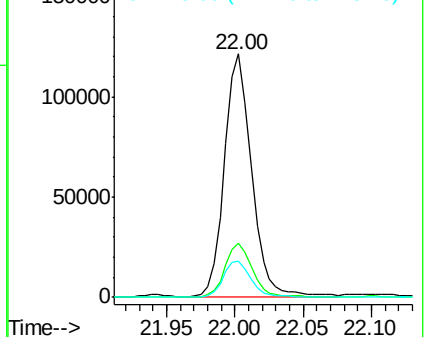
252 100

253 22.2 18.1 27.1

125 15.0 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: 5.16 ng

RT: 23.64 min Scan# 3220

Delta R.T. -0.01 min

Lab File: BE091368.D

Acq: 15 Jan 2016 2:02

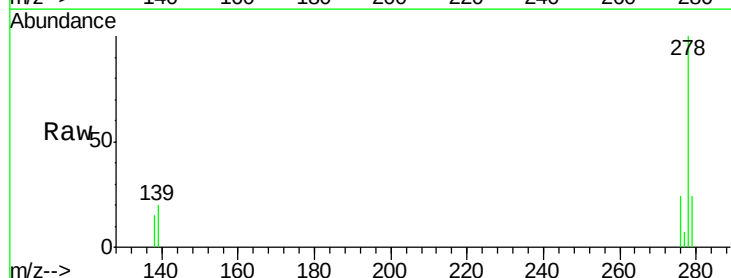
Tgt Ion: 278 Resp: 159081

Ion Ratio Lower Upper

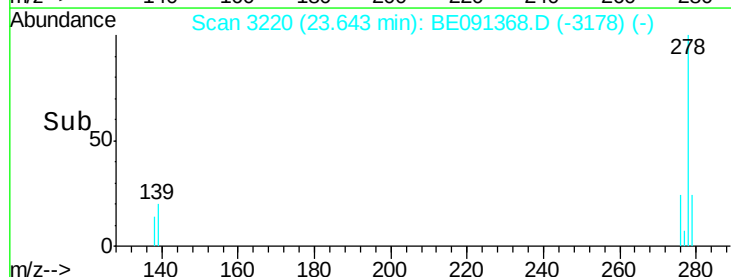
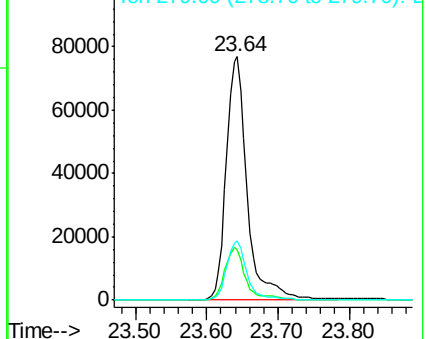
278 100

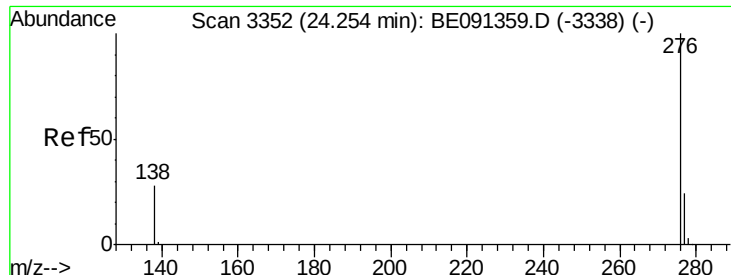
139 20.5 16.3 24.5

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(g,h,i)perylene

Concen: 5.13 ng

RT: 24.24 min Scan# 3352

Delta R.T. -0.01 min

Lab File: BE091368.D

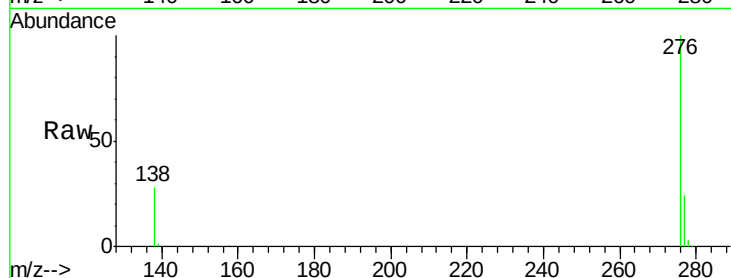
Acq: 15 Jan 2016 2:02

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MS



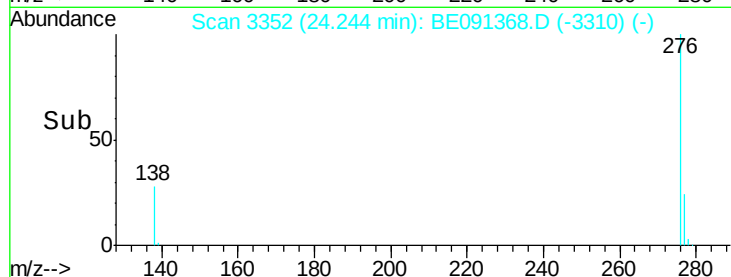
Tgt Ion: 276 Resp: 172265

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.6

138 28.1 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

