

Data Path : Z:\HPCHEM1\BNA_E\Data\BE011416\
 Data File : BE091369.D
 Acq On : 15 Jan 2016 2:41
 Operator : UM/IZ
 Sample : H1123-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001MSD

Quant Time: Jan 15 15:20:11 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

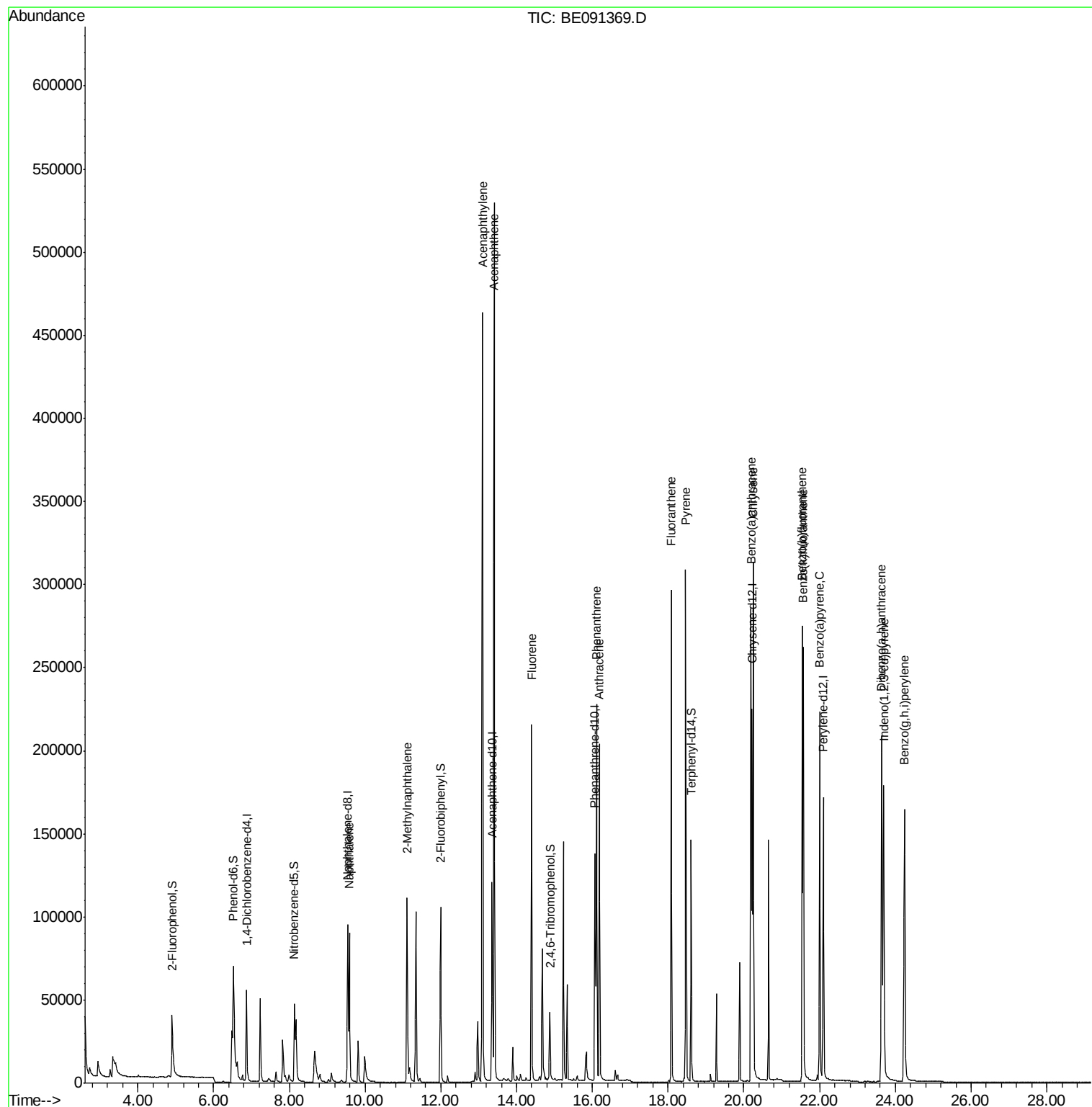
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	25779	5.00	ng	-0.01
4) Naphthalene-d8	9.54	136	122131	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	62832	5.00	ng	0.00
14) Phenanthrene-d10	16.07	188	160509	5.00	ng	-0.01
18) Chrysene-d12	20.22	240	184068	5.00	ng	0.00
24) Perylene-d12	22.10	264	165572	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.90	112	43482	9.65	ng	-0.04
3) Phenol-d6	6.52	99	71436	9.00	ng	-0.05
5) Nitrobenzene-d5	8.13	82	46283	6.54	ng	-0.03
9) 2,4,6-Tribromophenol	14.88	330	19917	9.00	ng	-0.01
10) 2-Fluorobiphenyl	11.99	172	100619	7.41	ng	-0.02
20) Terphenyl-d14	18.62	244	148094	5.59	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.58	128	131513	5.05	ng	99
7) 2-Methylnaphthalene	11.10	142	85064	5.32	ng	96
11) Acenaphthylene	13.09	152	617862	5.27	ng	100
12) Acenaphthene	13.41	154	95107	5.33	ng	# 72
13) Fluorene	14.39	166	131607	5.26	ng	96
15) Phenanthrene	16.11	178	230338	5.80	ng	99
16) Anthracene	16.19	178	213559	5.53	ng	100
17) Fluoranthene	18.08	202	263978	6.25	ng	99
19) Pyrene	18.46	202	274496	5.97	ng	99
21) Benzo(a)anthracene	20.19	228	248137	6.14	ng	97
22) Chrysene	20.25	228	256208	5.73	ng	100
23) Indeno(1,2,3-cd)pyrene	23.69	276	232271	5.21	ng	93
25) Benzo(b)fluoranthene	21.54	252	242652	5.76	ng	100
26) Benzo(k)fluoranthene	21.57	252	251648	5.29	ng	100
27) Benzo(a)pyrene	22.00	252	231999	5.65	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	225855	5.97	ng	99
29) Benzo(g,h,i)perylene	24.24	276	242317	5.90	ng	98

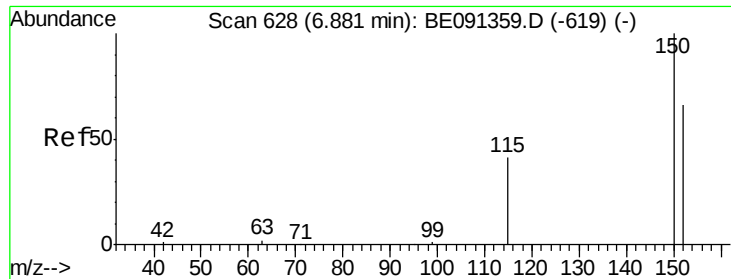
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 626

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

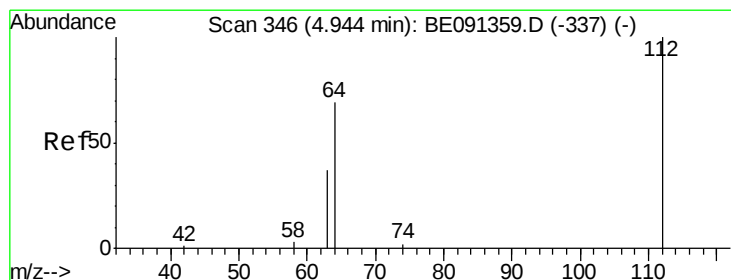
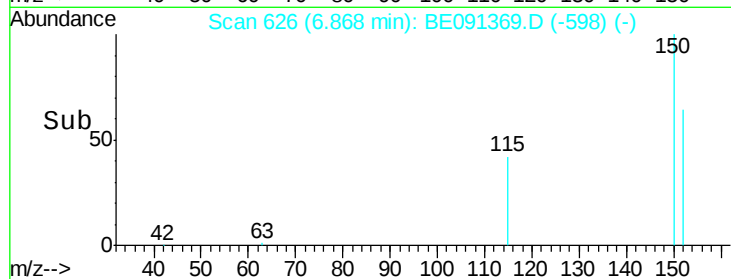
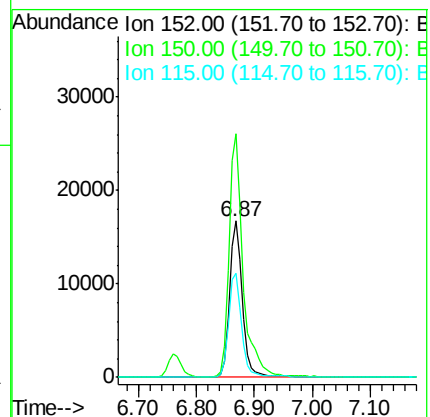
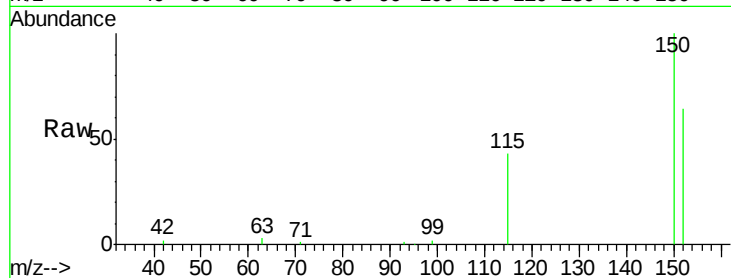
Tgt Ion:152 Resp: 25779

Ion Ratio Lower Upper

152 100

150 155.7 121.6 182.4

115 66.3 50.6 75.8



#2

2-Fluorophenol

Concen: 9.65 ng

RT: 4.90 min Scan# 340

Delta R.T. -0.04 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

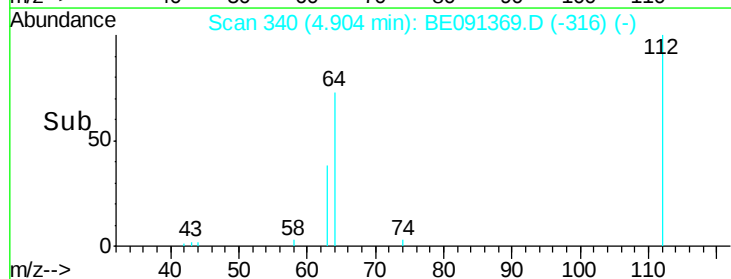
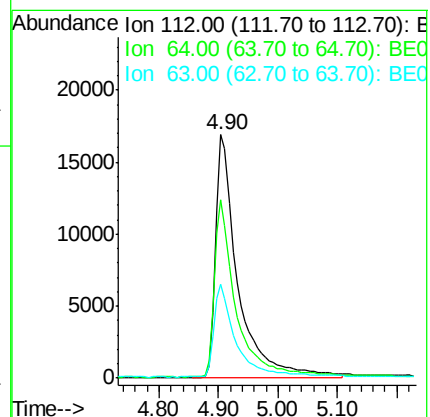
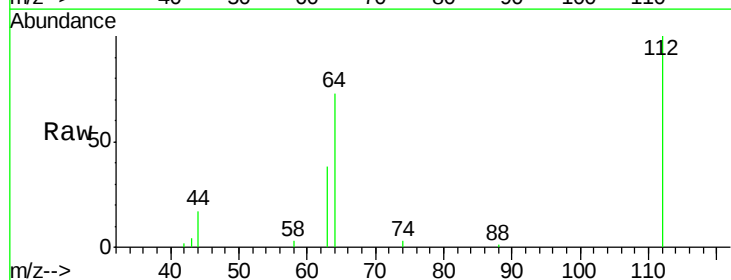
Tgt Ion:112 Resp: 43482

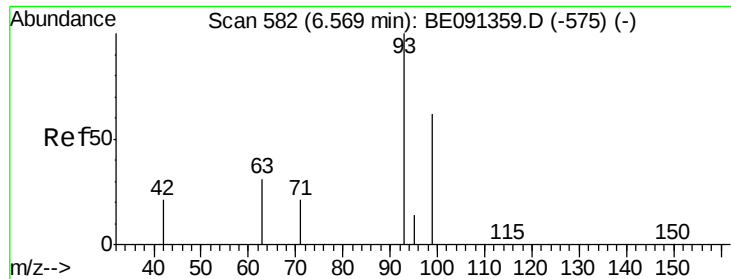
Ion Ratio Lower Upper

112 100

64 71.4 57.4 86.0

63 38.0 32.2 48.2





#3

Phenol-d6

Concen: 9.00 ng

RT: 6.52 min Scan# 575

Delta R.T. -0.05 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

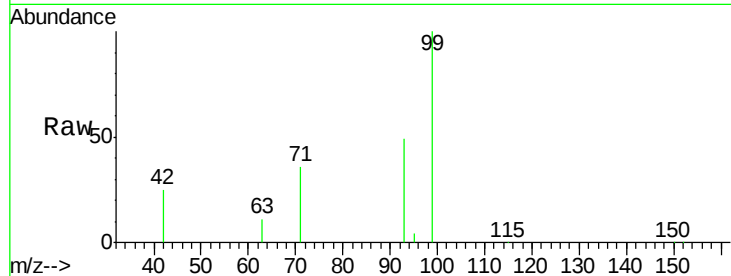
Tgt Ion: 99 Resp: 71436

Ion Ratio Lower Upper

99 100

42 26.0 22.9 34.3

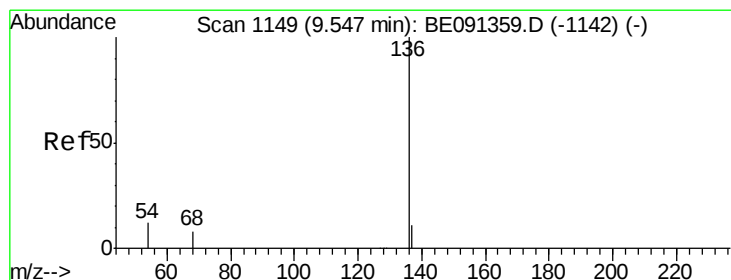
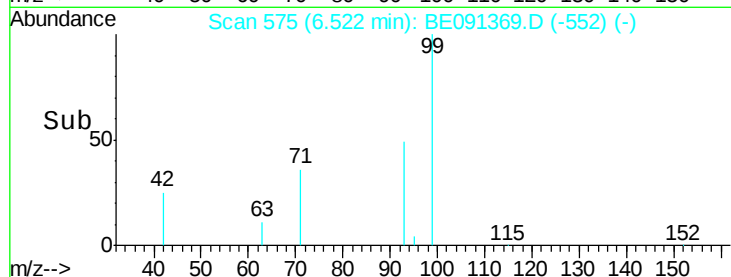
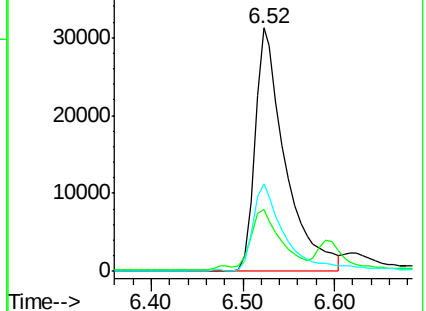
71 38.3 35.4 53.2



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: BE091369.D

Acq: 15 Jan 2016 2:41

Tgt Ion: 136 Resp: 122131

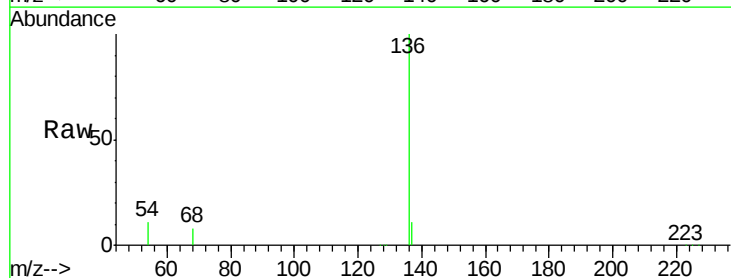
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 11.3 9.8 14.6

68 8.1 6.6 10.0

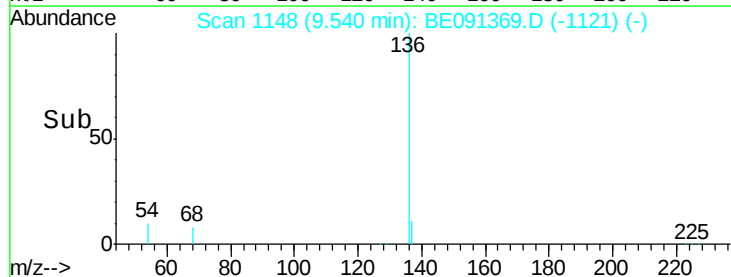
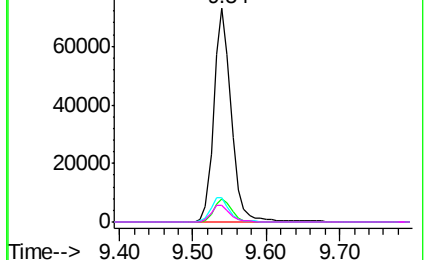


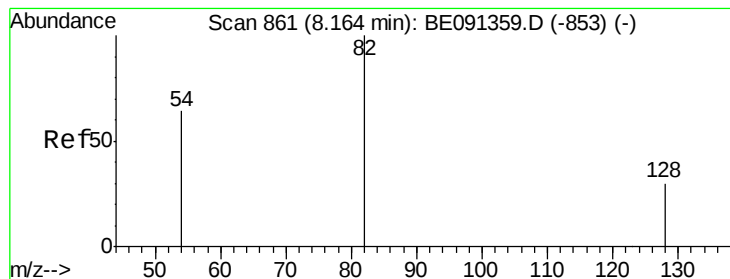
Abundance Ion 136.00 (135.70 to 136.70): E

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: 6.54 ng

RT: 8.13 min Scan# 854

Delta R.T. -0.03 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

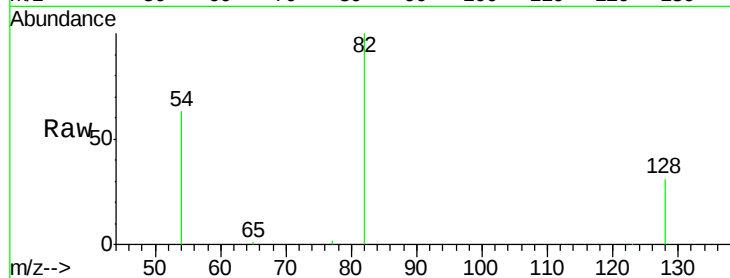
Tgt Ion: 82 Resp: 46283

Ion Ratio Lower Upper

82 100

128 31.0 24.6 36.8

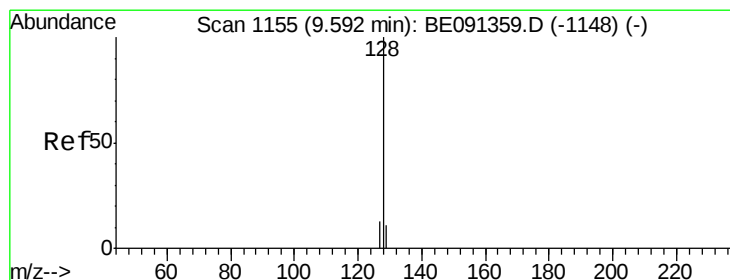
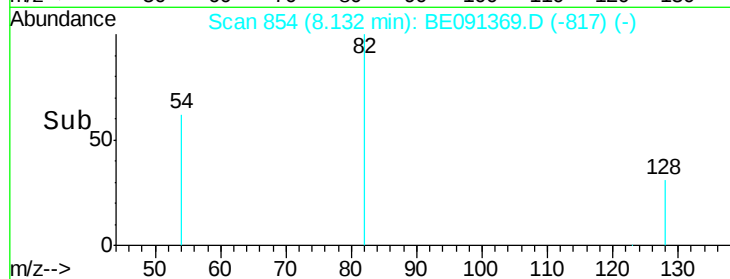
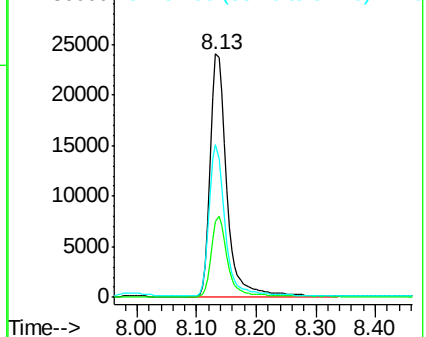
54 62.9 52.7 79.1



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: 5.05 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

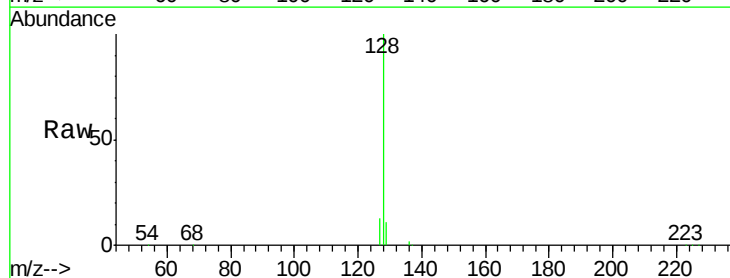
Tgt Ion: 128 Resp: 131513

Ion Ratio Lower Upper

128 100

129 11.1 9.3 13.9

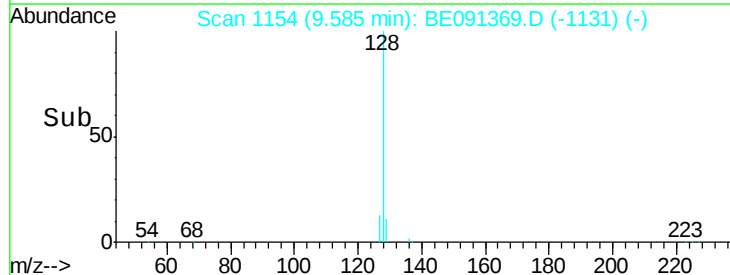
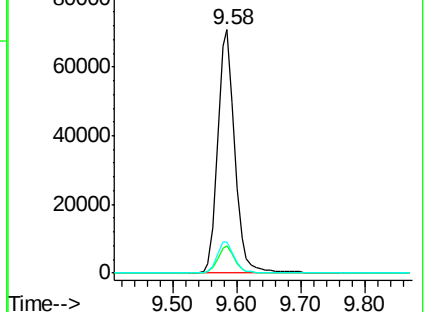
127 13.0 10.6 15.8

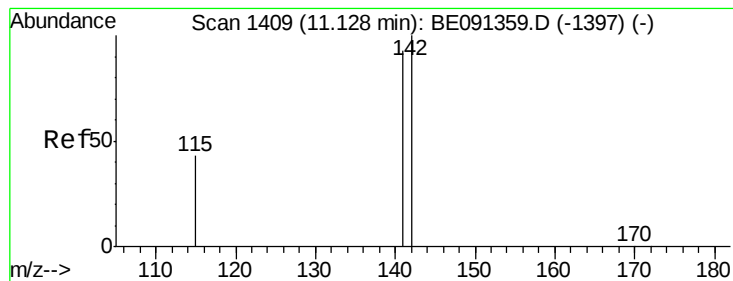


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 5.32 ng

RT: 11.10 min Scan# 1404

Delta R.T. -0.02 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

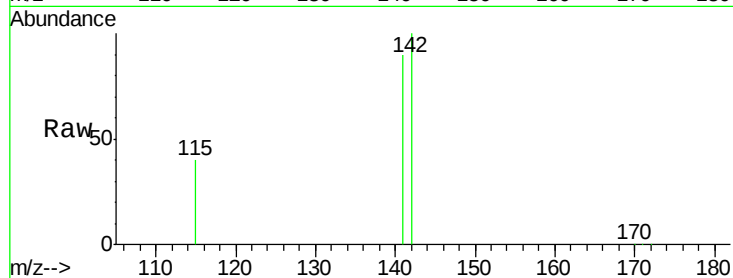
Tgt Ion:142 Resp: 85064

Ion Ratio Lower Upper

142 100

141 90.2 74.5 111.7

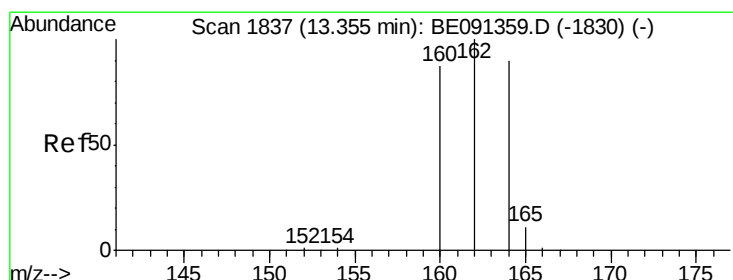
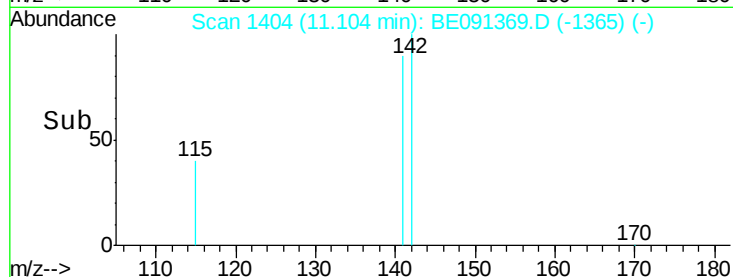
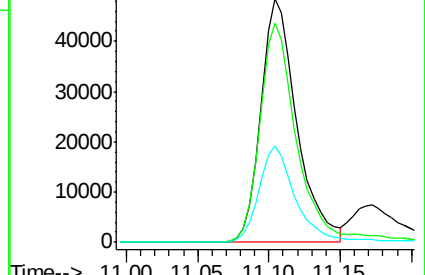
115 39.7 35.2 52.8



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. -0.00 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

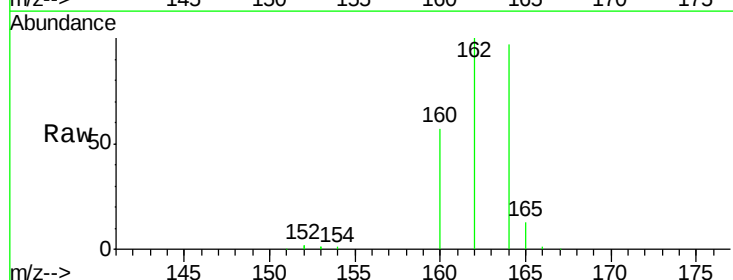
Tgt Ion:164 Resp: 62832

Ion Ratio Lower Upper

164 100

162 102.6 88.5 132.7

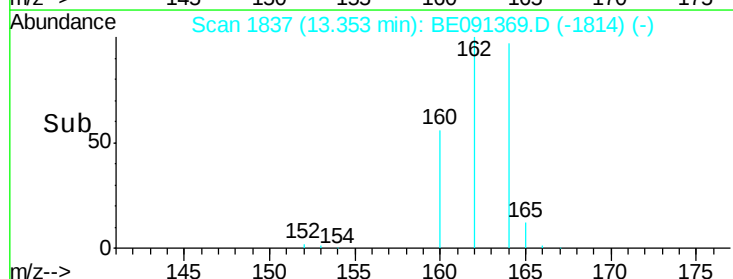
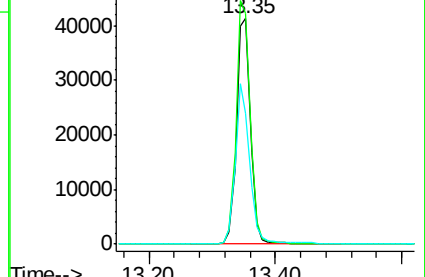
160 58.0 76.7 115.1#

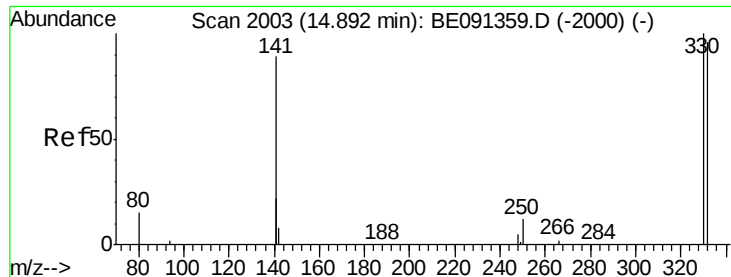


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 9.00 ng

RT: 14.88 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

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ClientSampleId :

IMPACT-PS-001MSD

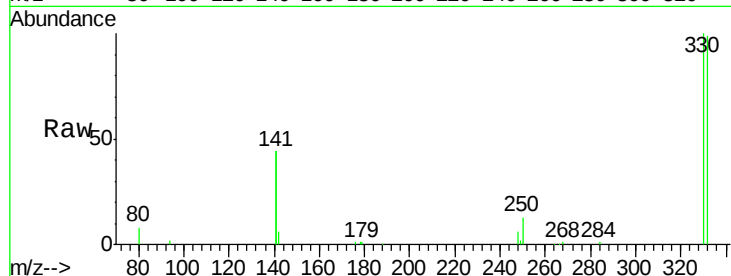
Tgt Ion:330 Resp: 19917

Ion Ratio Lower Upper

330 100

332 96.2 78.6 118.0

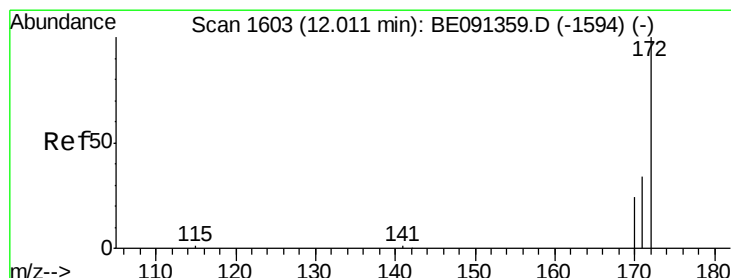
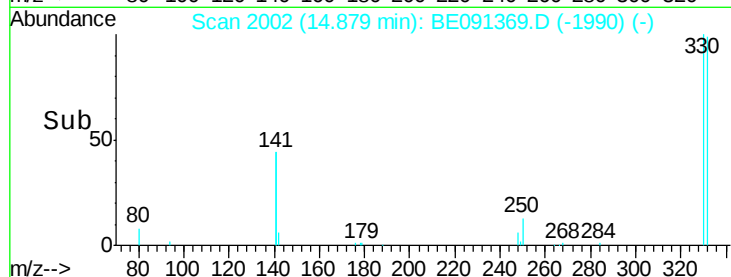
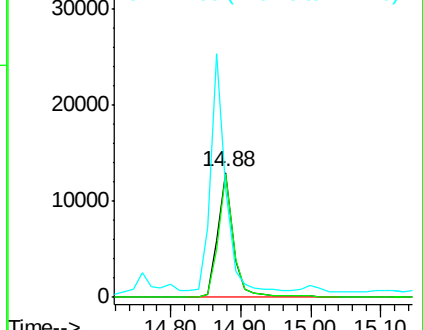
141 185.2 147.8 221.8



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: 7.41 ng

RT: 11.99 min Scan# 1599

Delta R.T. -0.02 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

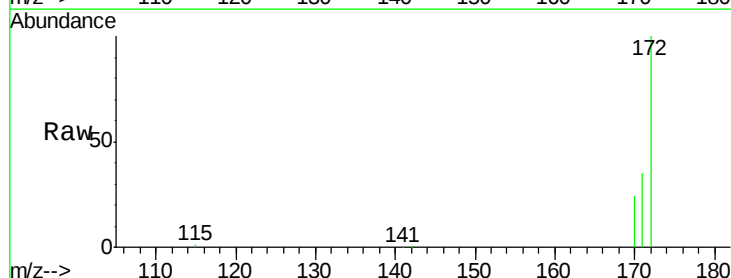
Tgt Ion:172 Resp: 100619

Ion Ratio Lower Upper

172 100

171 34.9 27.3 40.9

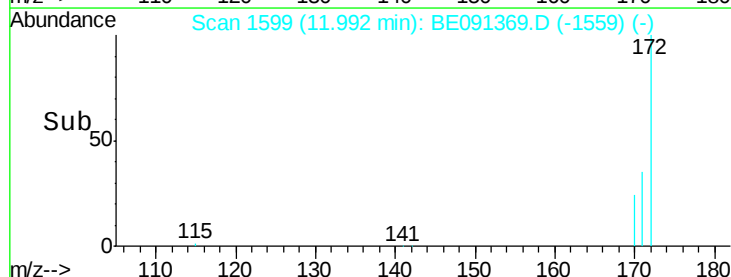
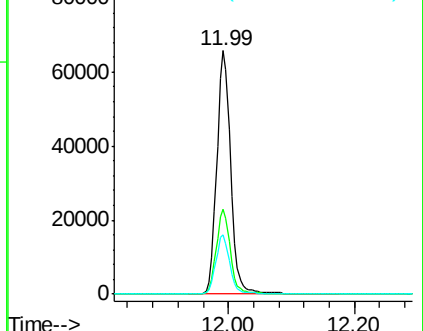
170 24.2 19.8 29.6

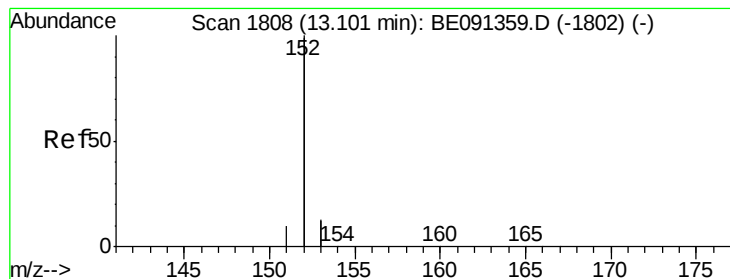


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 5.27 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

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IMPACT-PS-001MSD

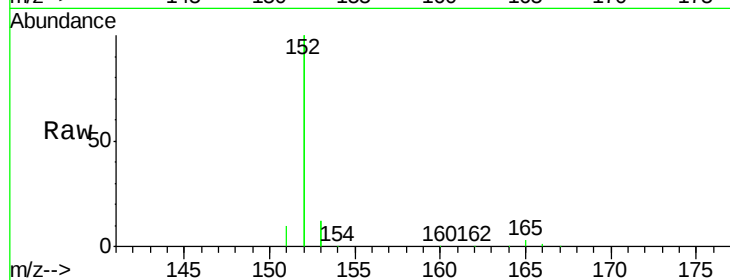
Tgt Ion:152 Resp: 617862

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

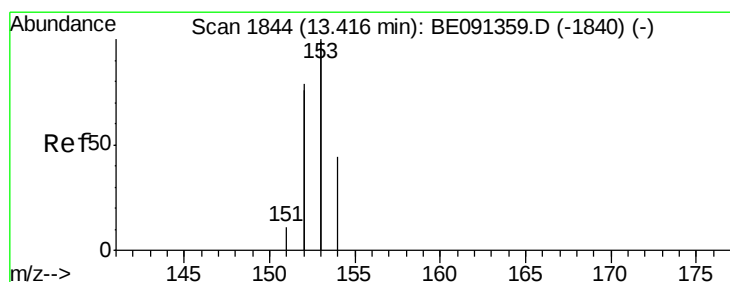
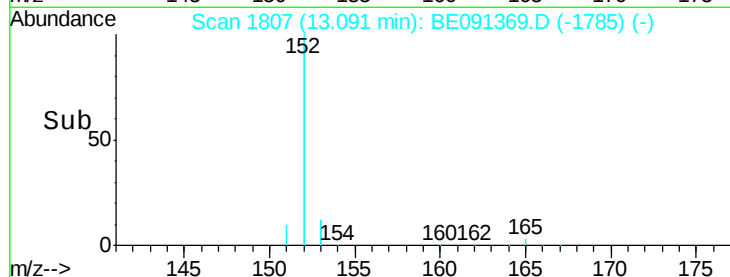
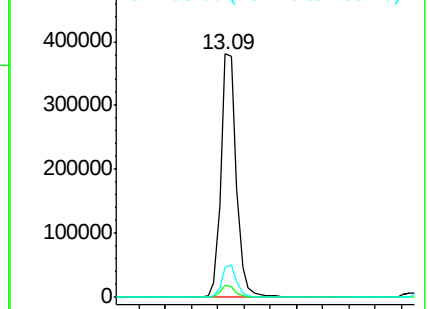
153 12.8 10.1 15.1



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: 5.33 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

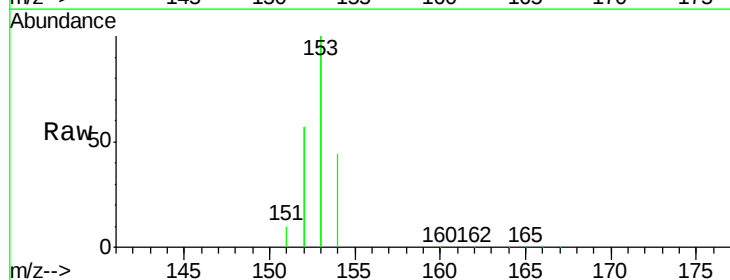
Tgt Ion:154 Resp: 95107

Ion Ratio Lower Upper

154 100

153 439.5 370.2 555.4

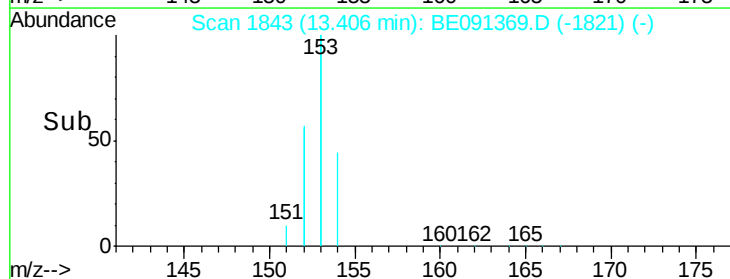
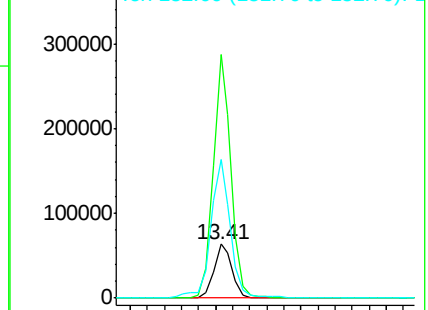
152 270.6 310.5 465.7#

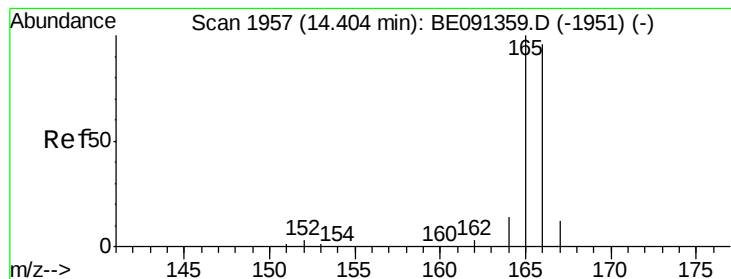


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 5.26 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

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IMPACT-PS-001MSD

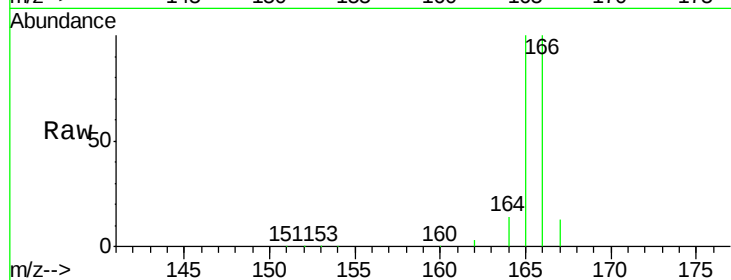
Tgt Ion:166 Resp: 131607

Ion Ratio Lower Upper

166 100

165 99.2 83.0 124.6

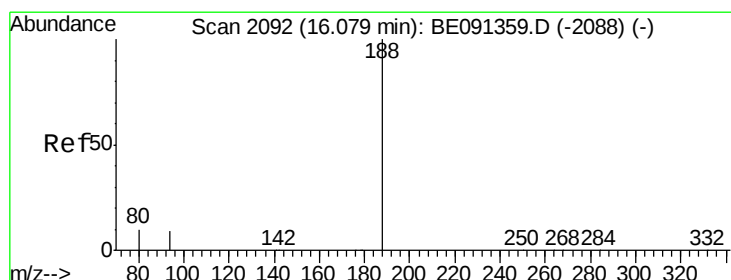
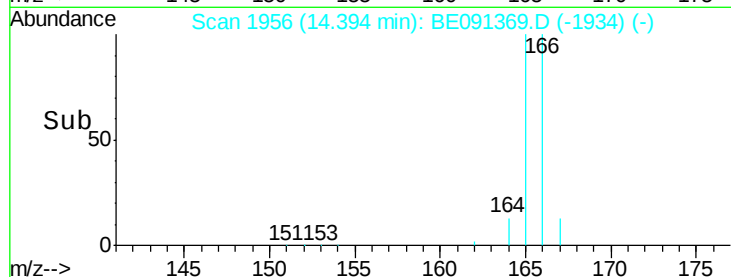
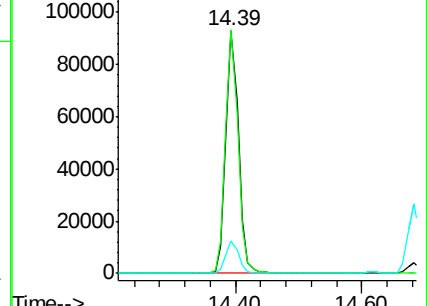
167 13.6 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.07 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

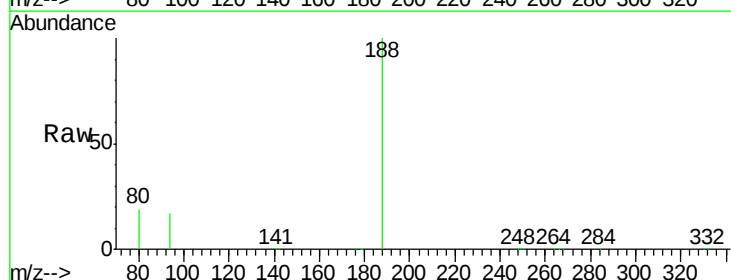
Tgt Ion:188 Resp: 160509

Ion Ratio Lower Upper

188 100

94 16.6 7.5 11.3#

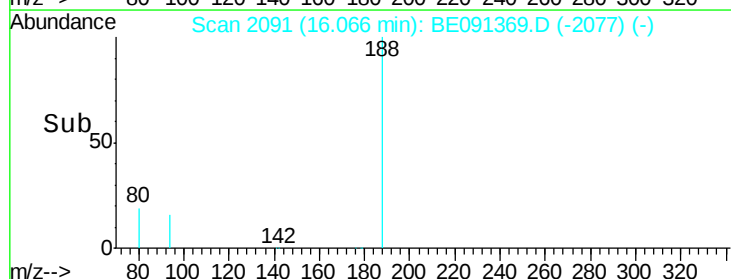
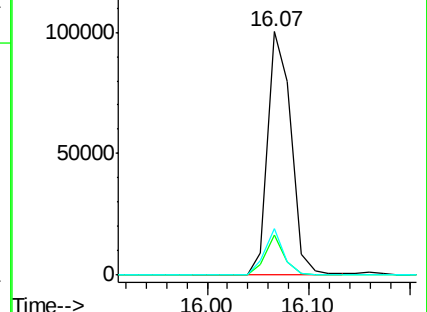
80 19.4 8.2 12.2#

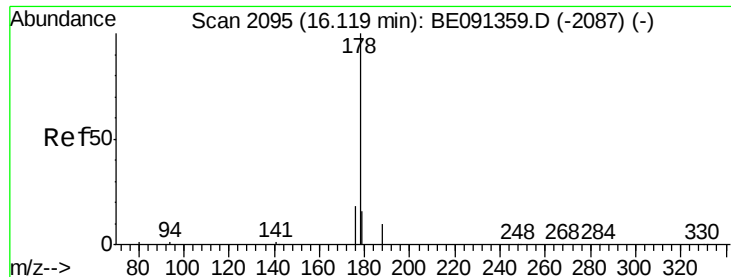


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#15

Phenanthrene

Concen: 5.80 ng

RT: 16.11 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

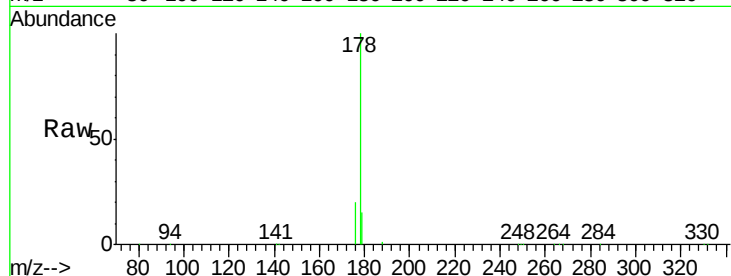
Tgt Ion:178 Resp: 230338

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

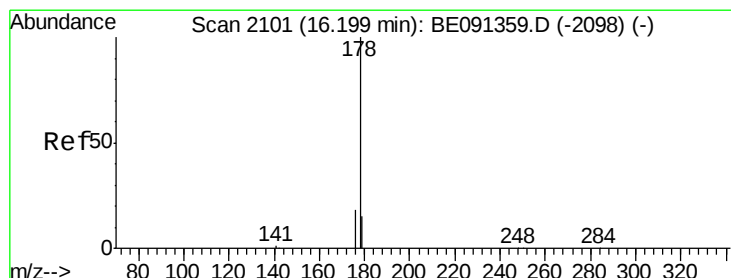
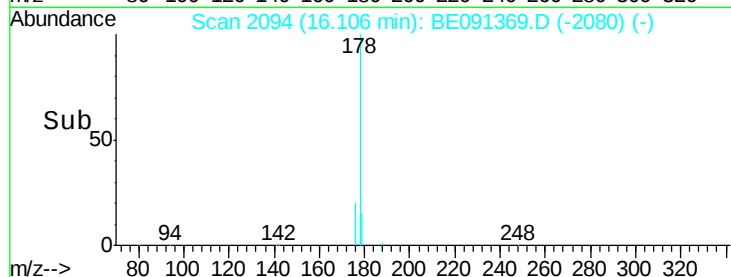
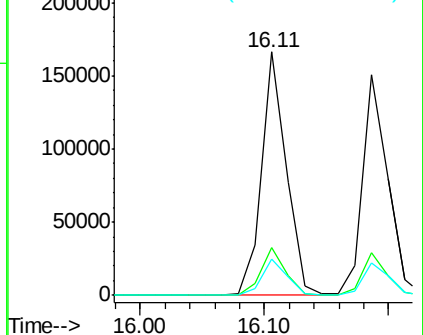
179 15.3 12.8 19.2



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: 5.53 ng

RT: 16.19 min Scan# 2100

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

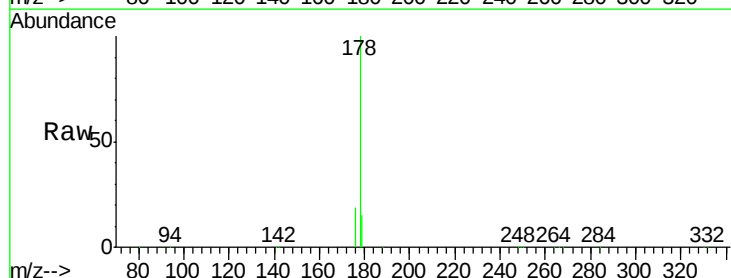
Tgt Ion:178 Resp: 213559

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

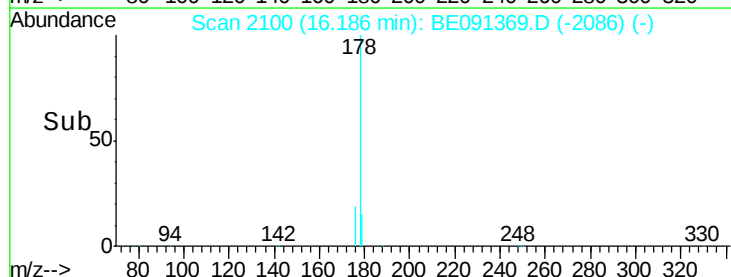
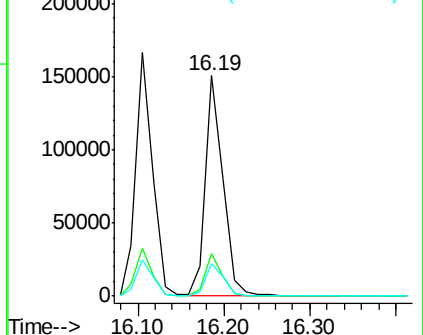
179 15.4 12.4 18.6

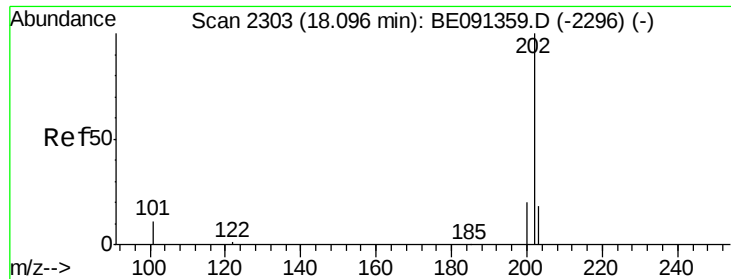


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

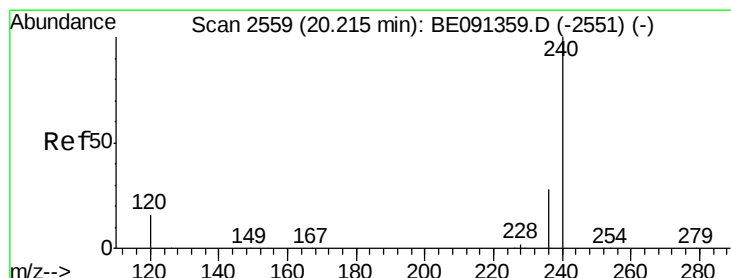
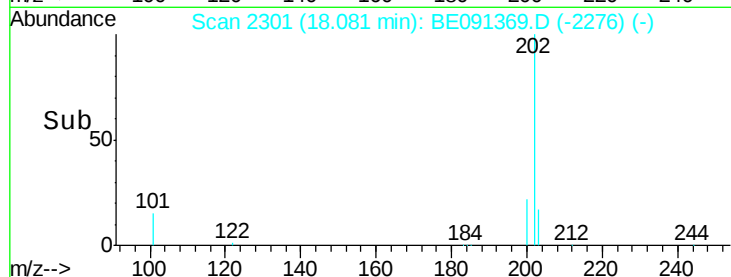
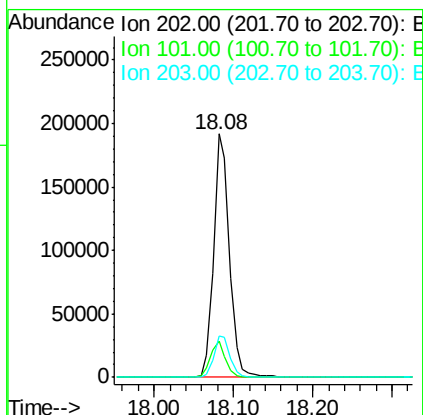
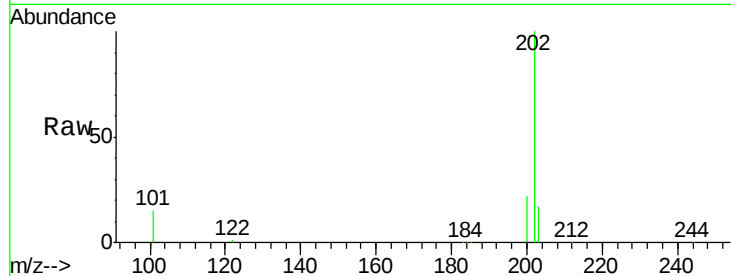




#17
Fluoranthene
 Concen: 6.25 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091369.D
 Acq: 15 Jan 2016 2:41

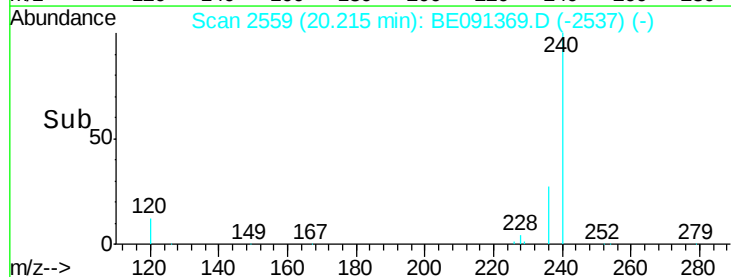
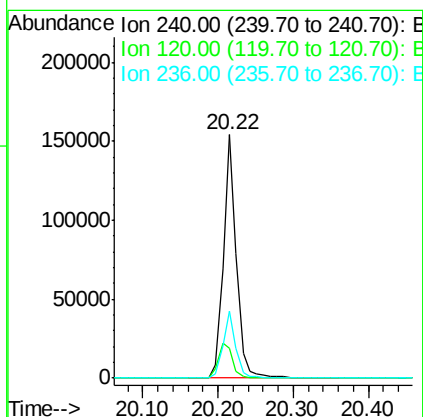
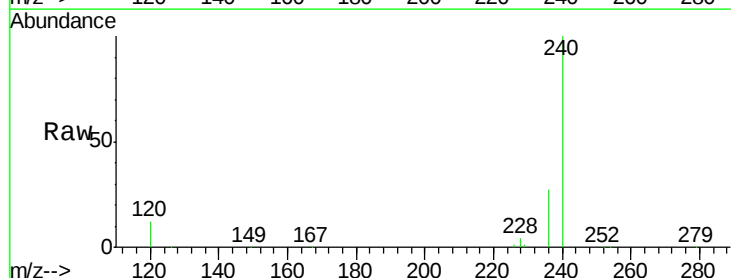
Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001MSD

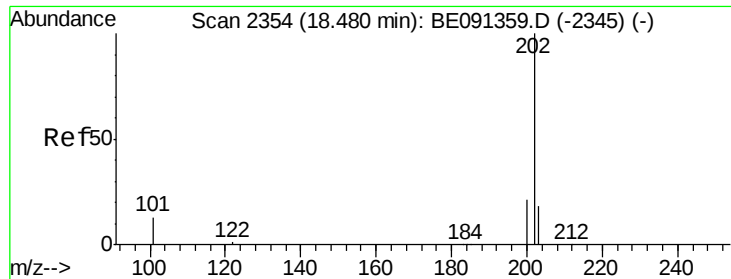
Tgt Ion: 202 Resp: 263978
 Ion Ratio Lower Upper
 202 100
 101 14.2 11.0 16.4
 203 17.3 13.9 20.9



#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091369.D
 Acq: 15 Jan 2016 2:41

Tgt Ion: 240 Resp: 184068
 Ion Ratio Lower Upper
 240 100
 120 12.1 12.6 19.0#
 236 27.4 22.7 34.1





#19

Pyrene

Concen: 5.97 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

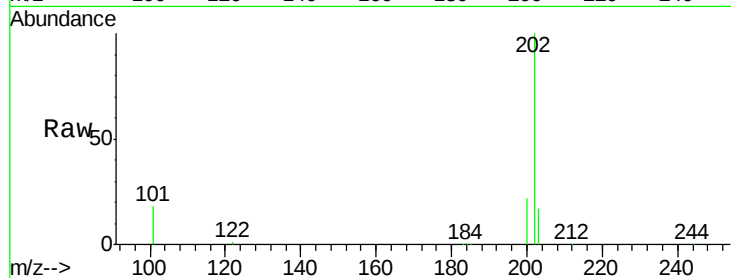
Tgt Ion:202 Resp: 274496

Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

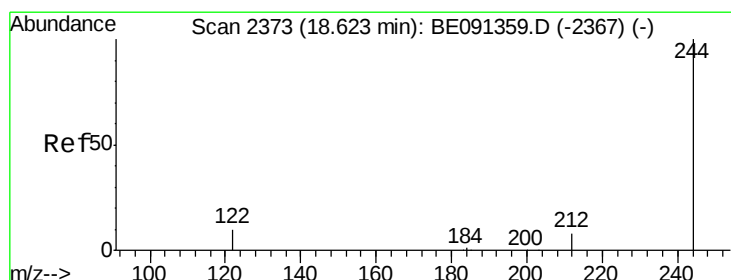
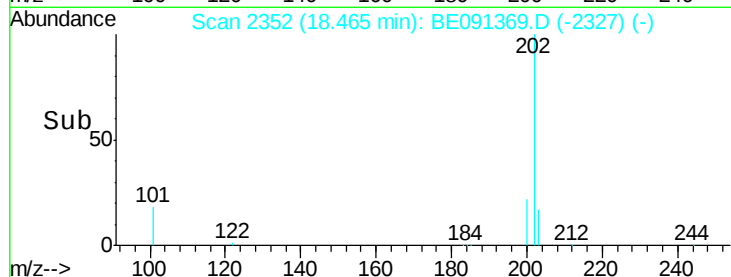
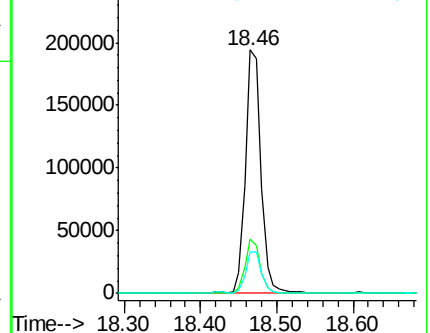
203 17.1 14.2 21.4



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: 5.59 ng

RT: 18.62 min Scan# 2372

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

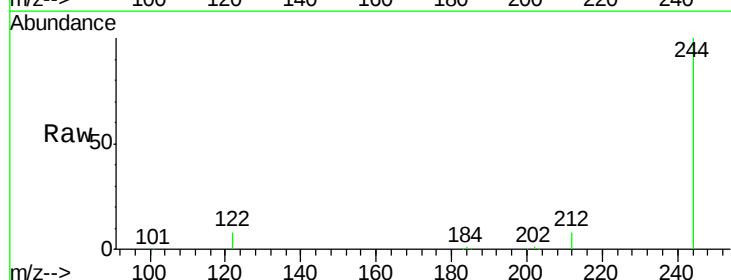
Tgt Ion:244 Resp: 148094

Ion Ratio Lower Upper

244 100

212 8.2 7.0 10.4

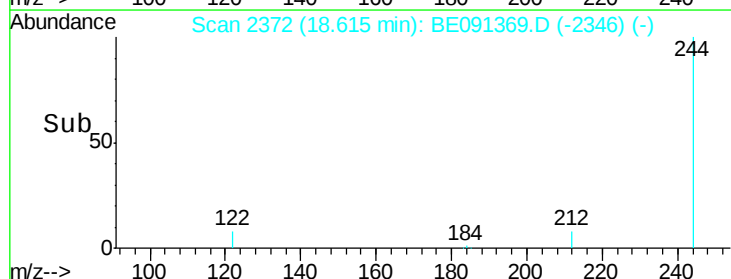
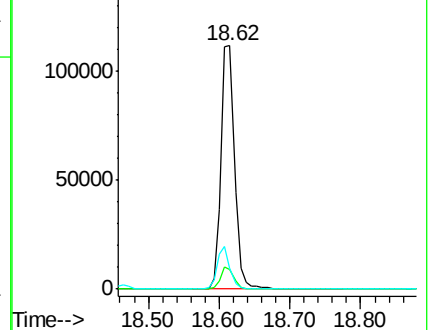
122 8.4 8.5 12.7#

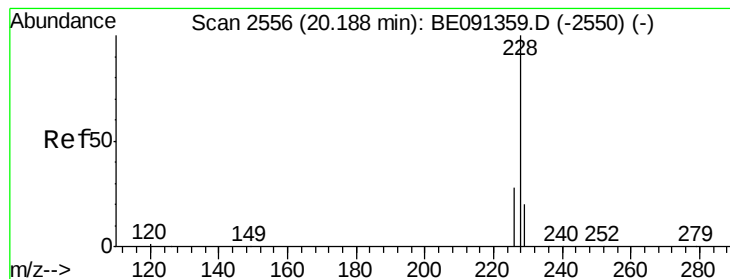


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

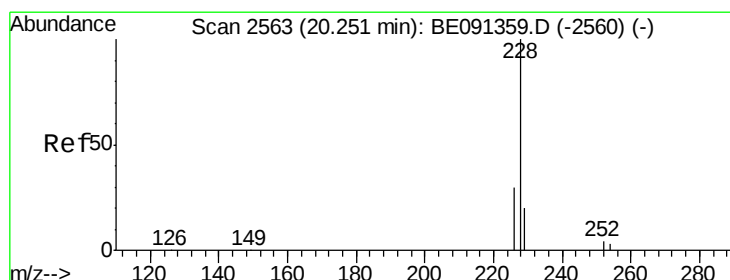
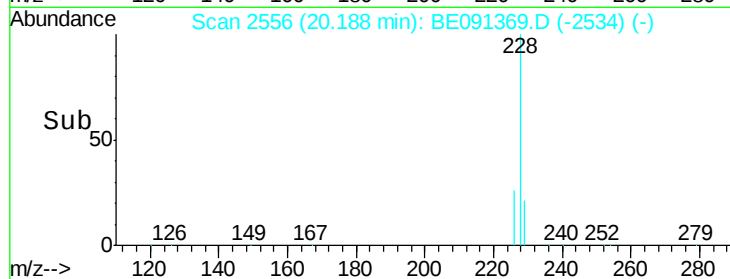
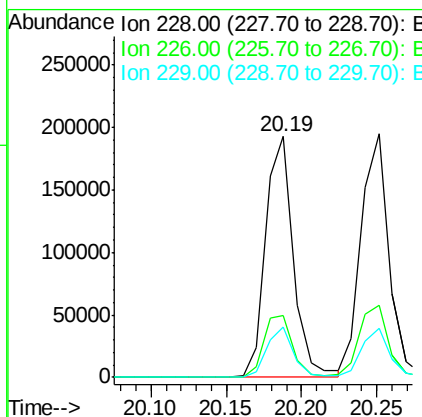
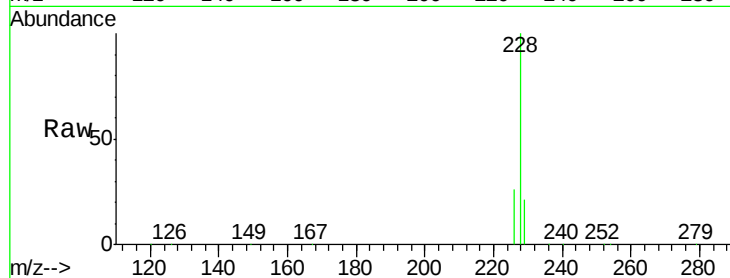




#21
Benzo(a)anthracene
Concen: 6.14 ng
RT: 20.19 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BE091369.D
Acq: 15 Jan 2016 2:41

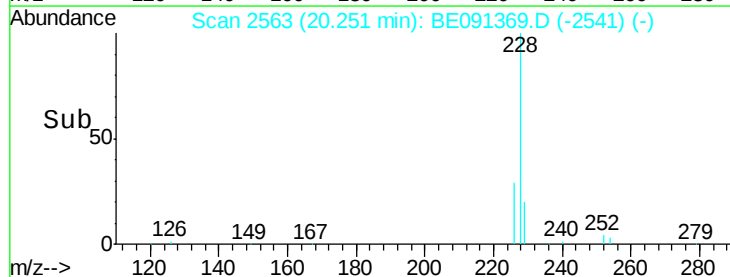
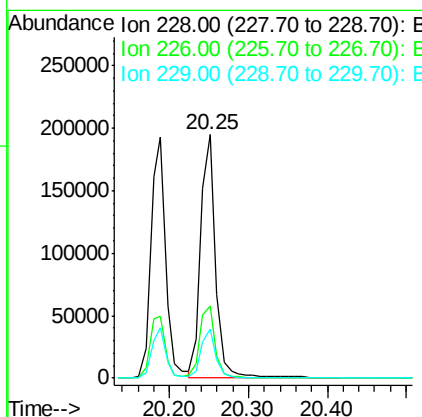
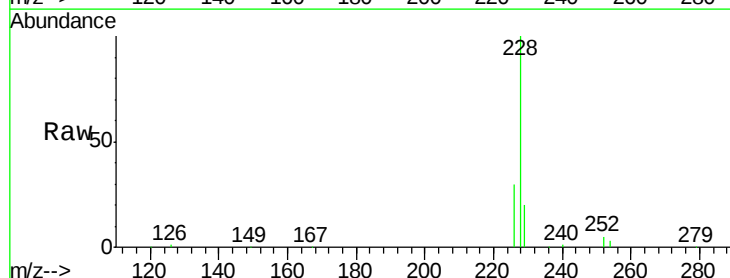
Instrument :
BNA_E
ClientSampleId :
IMPACT-PS-001MSD

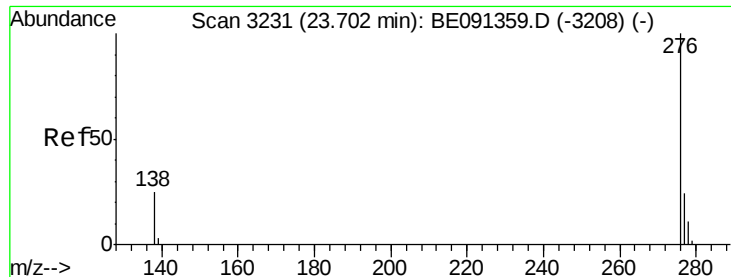
Tgt Ion:228 Resp: 248137
Ion Ratio Lower Upper
228 100
226 25.8 22.5 33.7
229 20.9 16.2 24.4



#22
Chrysene
Concen: 5.73 ng
RT: 20.25 min Scan# 2563
Delta R.T. 0.00 min
Lab File: BE091369.D
Acq: 15 Jan 2016 2:41

Tgt Ion:228 Resp: 256208
Ion Ratio Lower Upper
228 100
226 29.5 23.7 35.5
229 20.1 16.0 24.0





#23

Indeno(1,2,3-cd)pyrene

Concen: 5.21 ng

RT: 23.69 min Scan# 3229

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

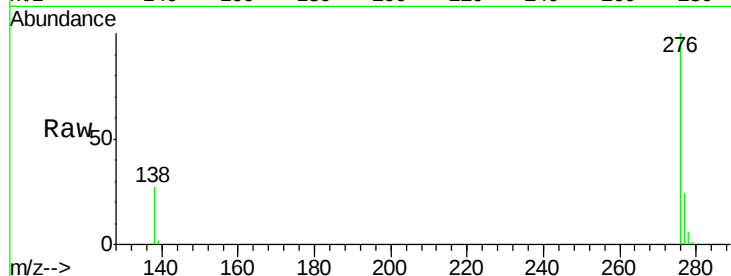
Tgt Ion: 276 Resp: 232271

Ion Ratio Lower Upper

276 100

138 26.8 18.6 27.8

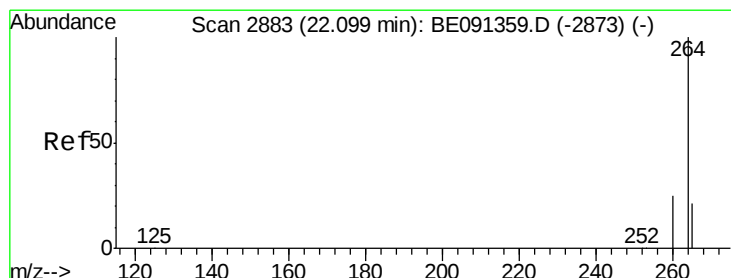
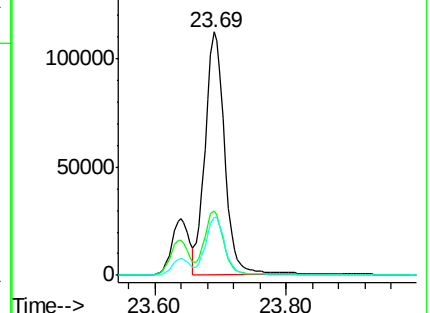
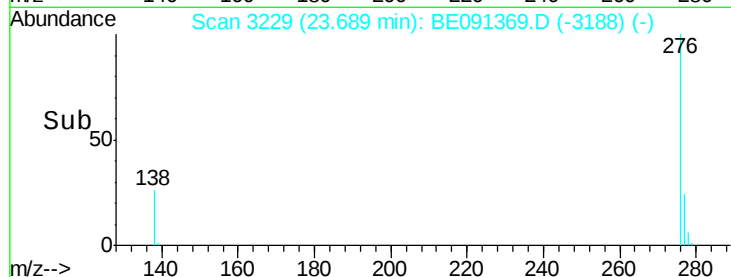
277 23.7 16.5 24.7



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: BE091369.D

Acq: 15 Jan 2016 2:41

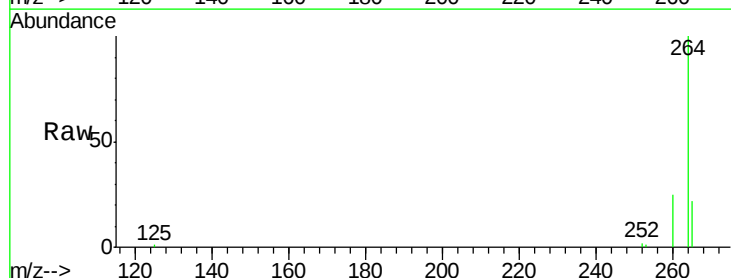
Tgt Ion: 264 Resp: 165572

Ion Ratio Lower Upper

264 100

260 24.9 20.4 30.6

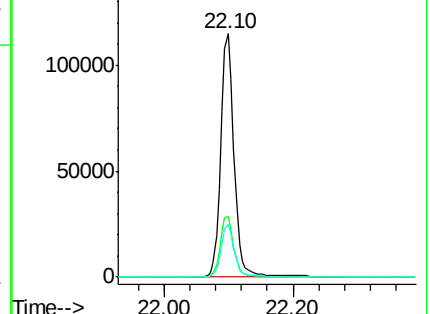
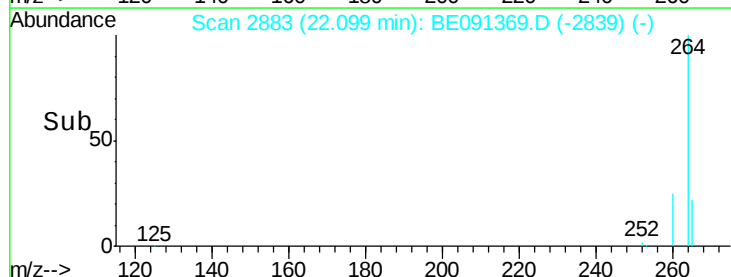
265 21.8 17.2 25.8

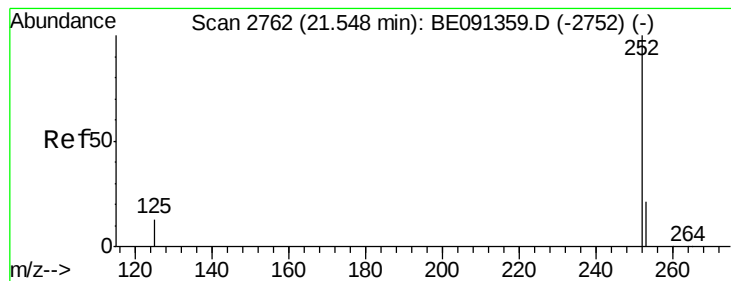


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#25

Benzo(b)fluoranthene

Concen: 5.76 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.00 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

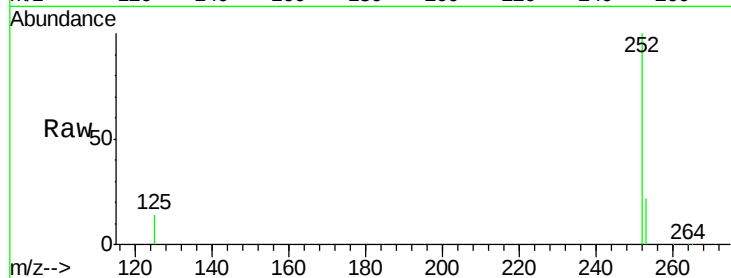
Tgt Ion:252 Resp: 242652

Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.2

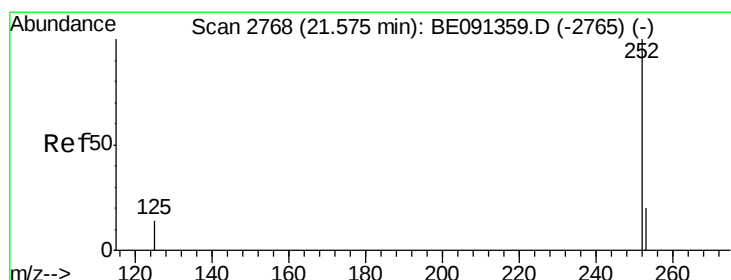
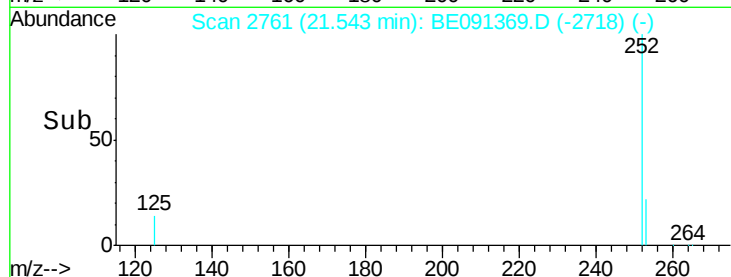
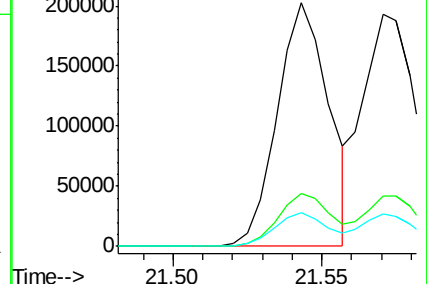
125 13.9 11.0 16.6



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: 5.29 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.00 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

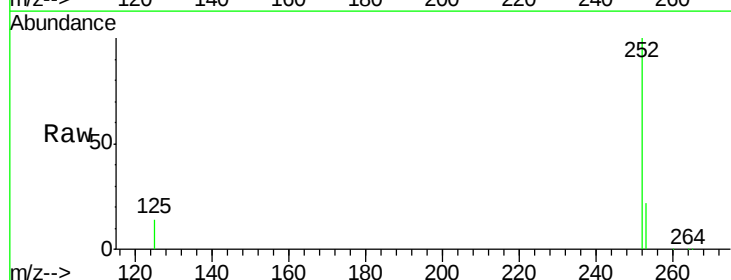
Tgt Ion:252 Resp: 251648

Ion Ratio Lower Upper

252 100

253 21.6 17.5 26.3

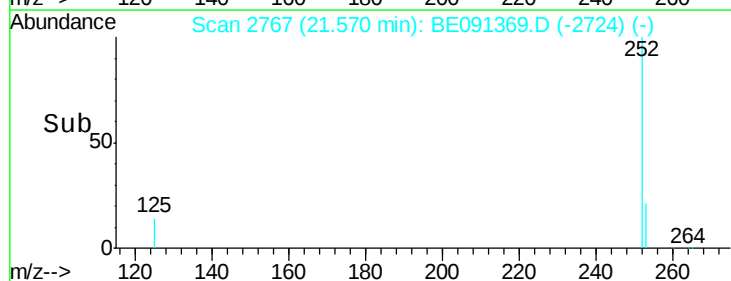
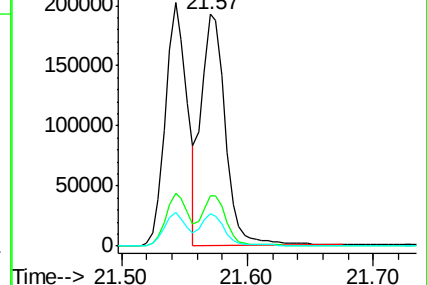
125 14.1 11.3 16.9

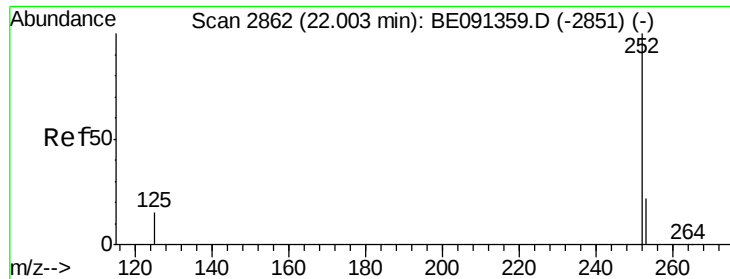


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 5.65 ng

RT: 22.00 min Scan# 2861

Delta R.T. -0.00 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD

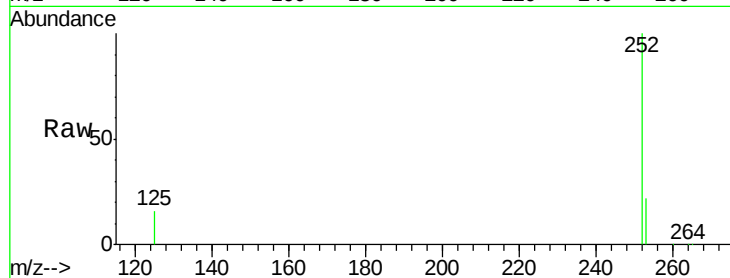
Tgt Ion: 252 Resp: 231999

Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

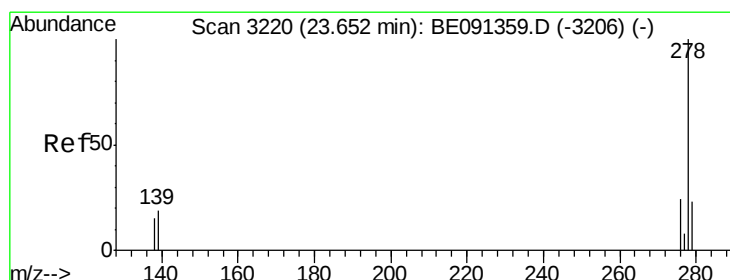
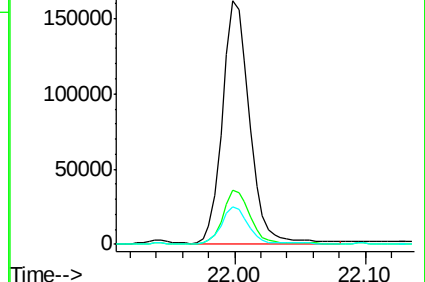
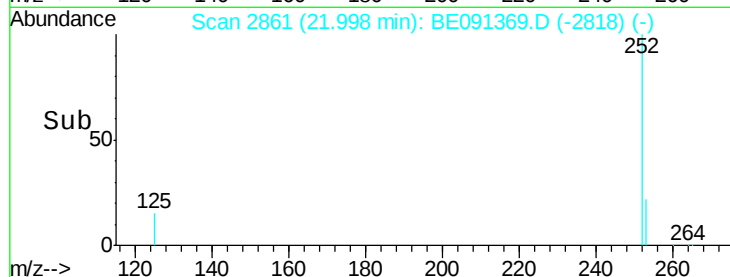
125 15.6 12.2 18.4



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: 5.97 ng

RT: 23.64 min Scan# 3218

Delta R.T. -0.01 min

Lab File: BE091369.D

Acq: 15 Jan 2016 2:41

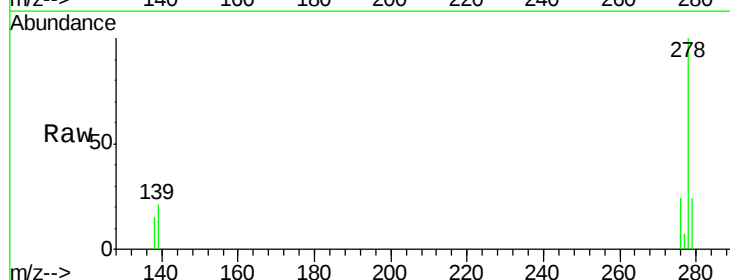
Tgt Ion: 278 Resp: 225855

Ion Ratio Lower Upper

278 100

139 20.9 16.3 24.5

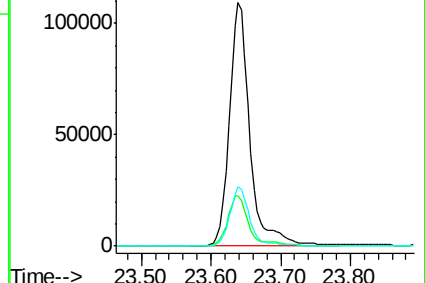
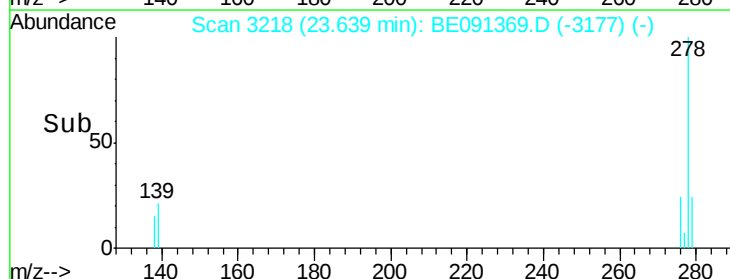
279 24.3 19.4 29.2

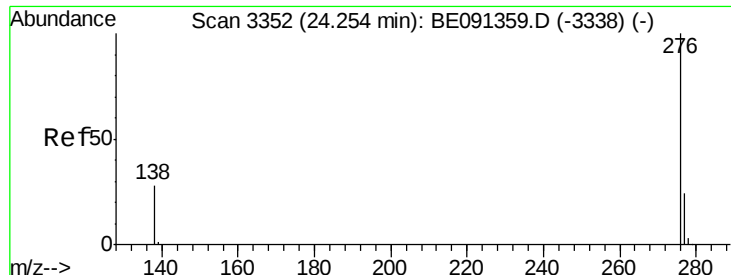


Abundance Ion 278.00 (277.70 to 278.70): E

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: 5.90 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.01 min

Lab File: BE091369.D

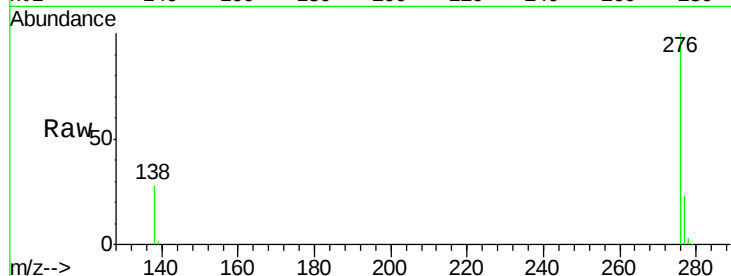
Acq: 15 Jan 2016 2:41

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001MSD



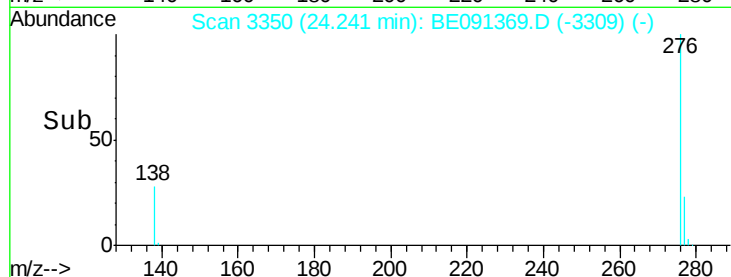
Tgt Ion: 276 Resp: 242317

Ion Ratio Lower Upper

276 100

277 23.4 19.8 29.6

138 28.2 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

