

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
 Data File : BE091406.D
 Acq On : 17 Feb 2016 16:15
 Operator : UM/IZ
 Sample : PB88398BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88398BS

Quant Time: Feb 17 23:59:26 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	42022	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	210610	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	137925	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	336971	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	406493	5.00	ng	0.00
24) Perylene-d12	22.09	264	391595	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.90	112	80925	8.11	ng	-0.04
3) Phenol-d6	6.52	99	112896	7.99	ng	-0.05
5) Nitrobenzene-d5	8.13	82	66746	4.80	ng	-0.04
9) 2,4,6-Tribromophenol	14.89	330	56260	8.32	ng	-0.01
10) 2-Fluorobiphenyl	11.99	172	181316	5.05	ng	-0.02
20) Terphenyl-d14	18.61	244	286371	4.76	ng	0.00

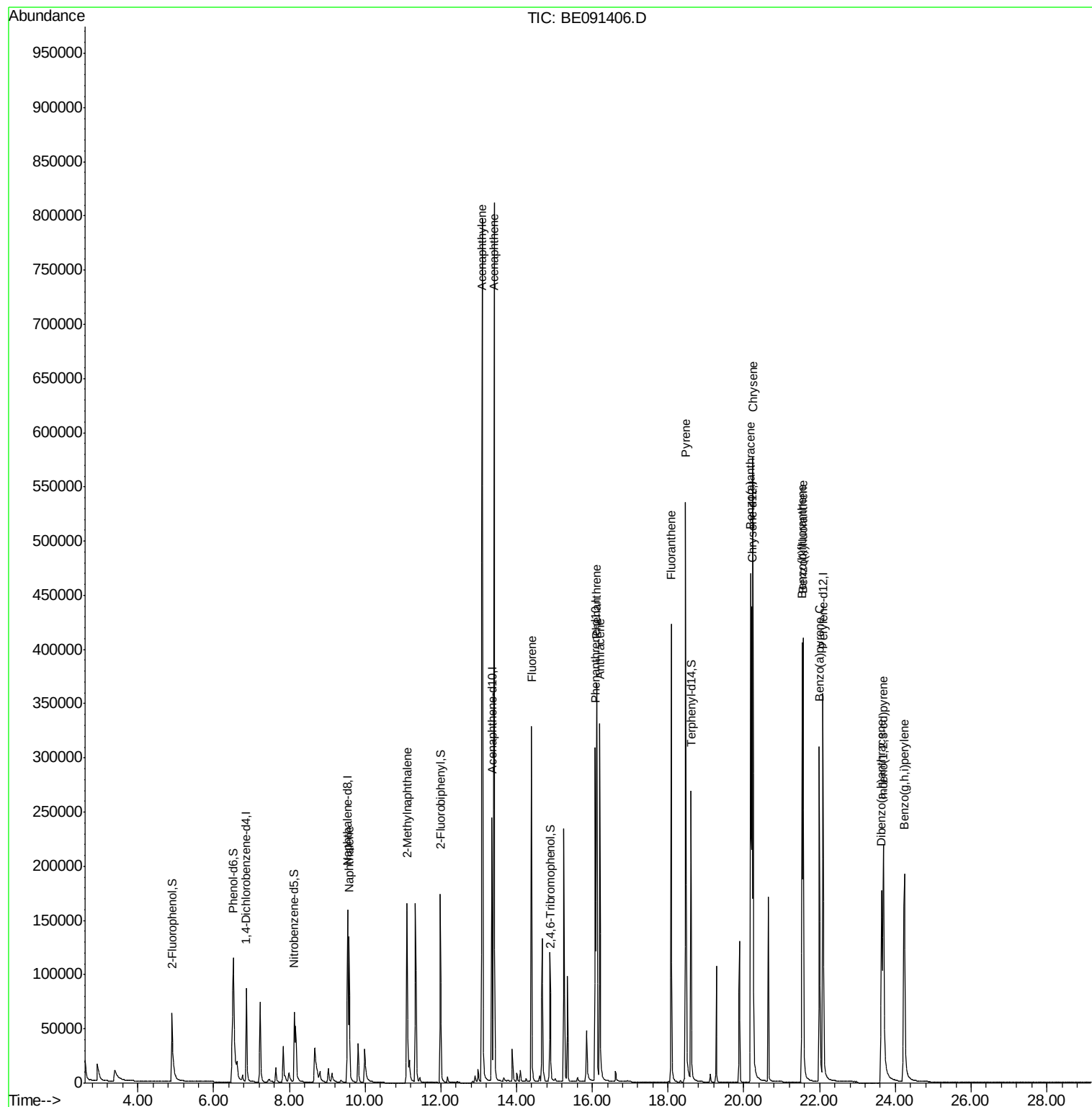
Target Compounds				Qvalue		
6) Naphthalene	9.58	128	197002	4.15	ng	99
7) 2-Methylnaphthalene	11.10	142	137701	4.66	ng	98
11) Acenaphthylene	13.09	152	1003521	4.20	ng	100
12) Acenaphthene	13.41	154	155729	4.11	ng	96
13) Fluorene	14.39	166	216818	4.43	ng	99
15) Phenanthrene	16.12	178	371246	4.20	ng	100
16) Anthracene	16.20	178	363390	4.90	ng	100
17) Fluoranthene	18.08	202	392443	4.25	ng	99
19) Pyrene	18.46	202	428219	4.86	ng	99
21) Benzo(a)anthracene	20.18	228	383887	4.26	ng	100
22) Chrysene	20.24	228	423617	4.19	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	341766	3.74	ng	99
25) Benzo(b)fluoranthene	21.54	252	394859	4.08	ng	98
26) Benzo(k)fluoranthene	21.57	252	423924	4.34	ng	98
27) Benzo(a)pyrene	21.99	252	358818	4.02	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	281358	3.24	ng	99
29) Benzo(a,h,i)perylene	24.24	276	368408	3.82	ng	98

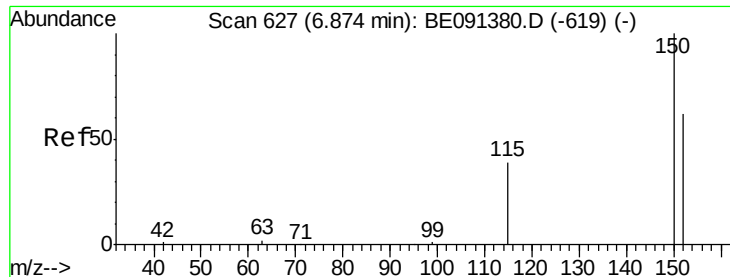
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampled :

PB88398BS

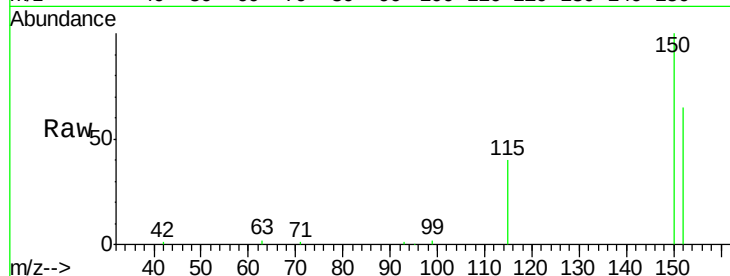
Tot Ion:152 Resp: 42022

Ion Ratio Lower Upper

152 100

150 153.6 128.9 193.3

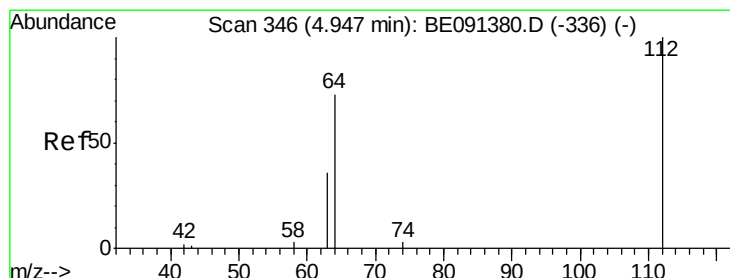
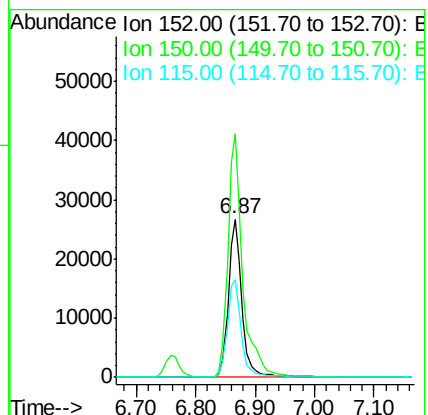
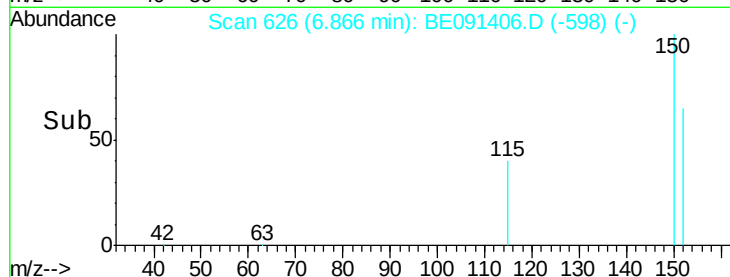
115 61.9 50.9 76.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

2-Fluorophenol

Concen: 8.11 ng

RT: 4.90 min Scan# 340

Delta R.T. -0.04 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

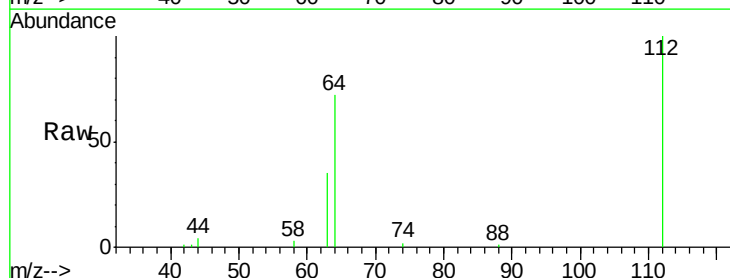
Tgt Ion:112 Resp: 80925

Ion Ratio Lower Upper

112 100

64 75.0 60.5 90.7

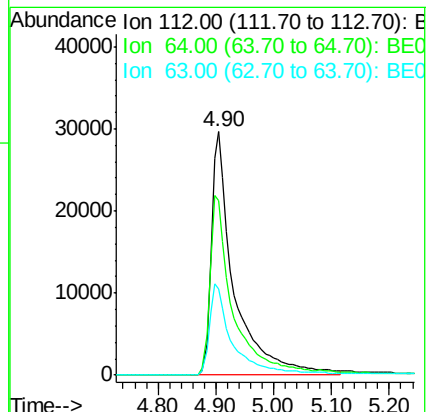
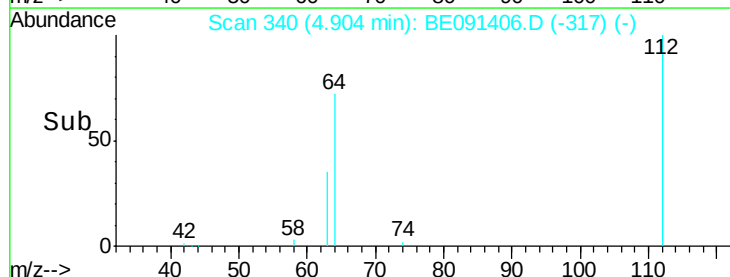
63 37.9 29.8 44.8

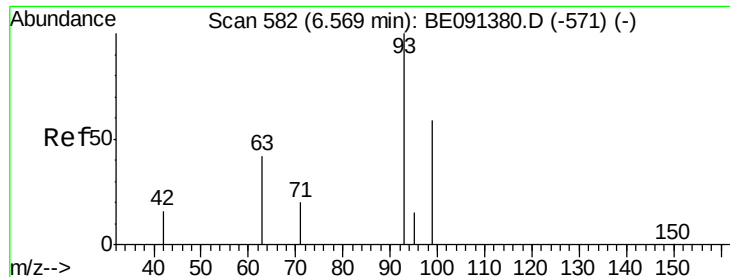


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 7.99 ng

RT: 6.52 min Scan# 575

Delta R.T. -0.05 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

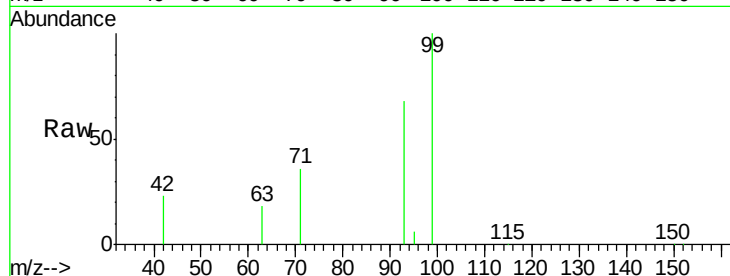
Tot Ion: 99 Resp: 112896

Ion Ratio Lower Upper

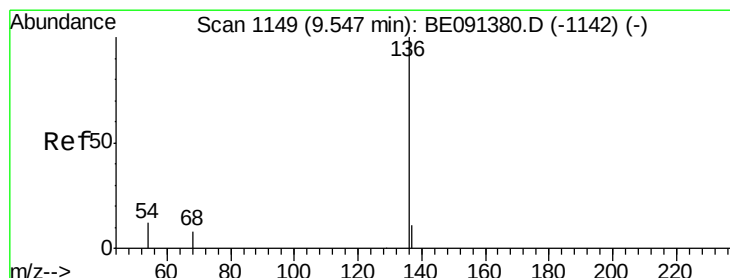
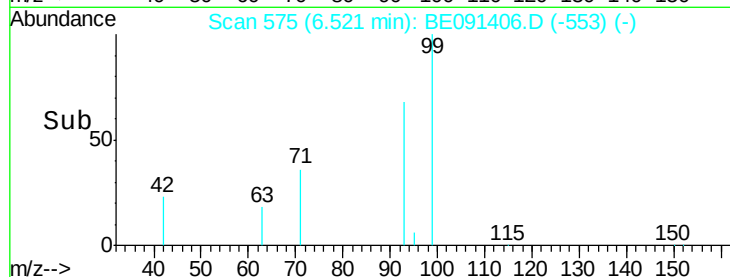
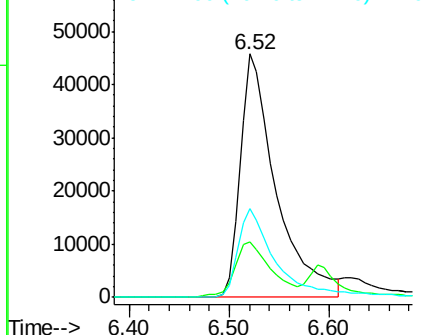
99 100

42 22.8 13.3 19.9#

71 39.2 25.6 38.4#



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: BE091406.D

Acq: 17 Feb 2016 16:15

Tgt Ion: 136 Resp: 210610

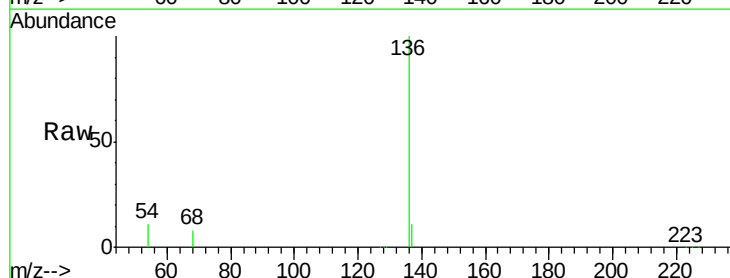
Ion Ratio Lower Upper

136 100

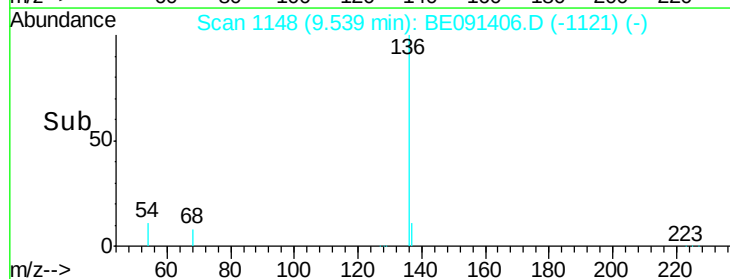
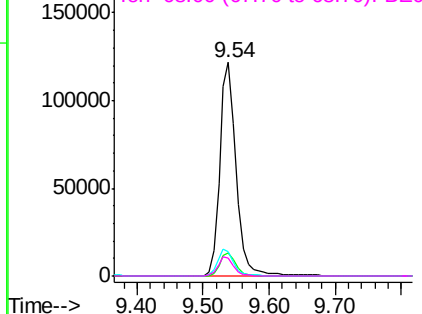
137 11.1 8.7 13.1

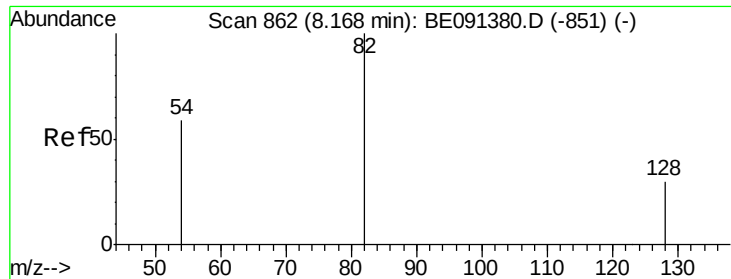
54 11.4 9.3 13.9

68 8.2 6.7 10.1



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

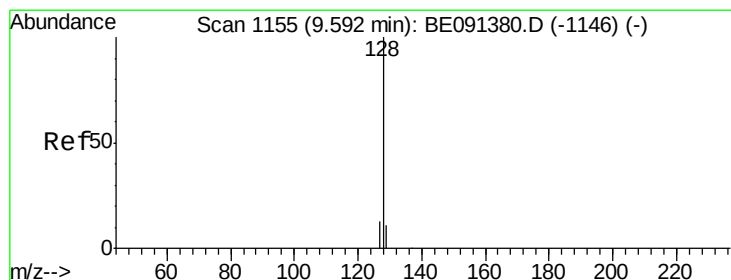
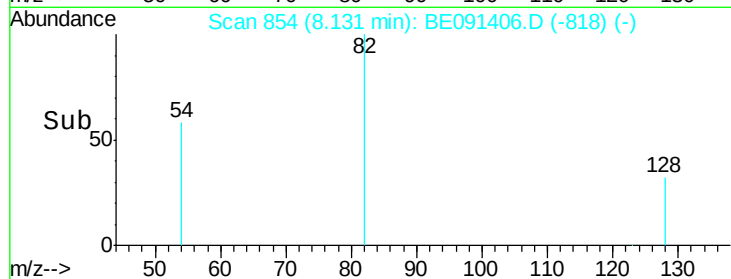
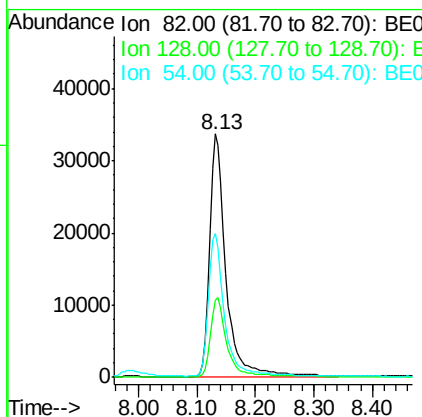
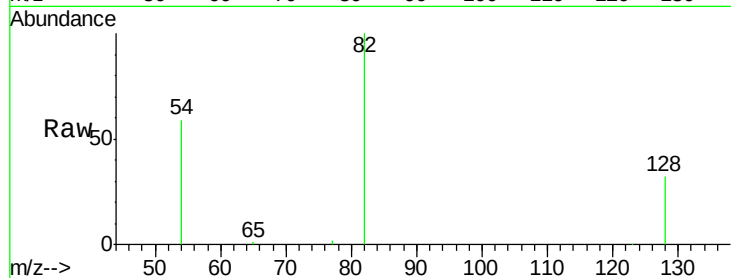




#5
 Nitrobenzene-d5
 Concen: 4.80 ng
 RT: 8.13 min Scan# 854
 Delta R.T. -0.04 min
 Lab File: BE091406.D
 Acq: 17 Feb 2016 16:15

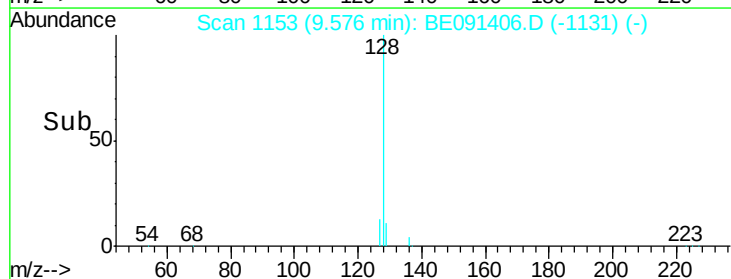
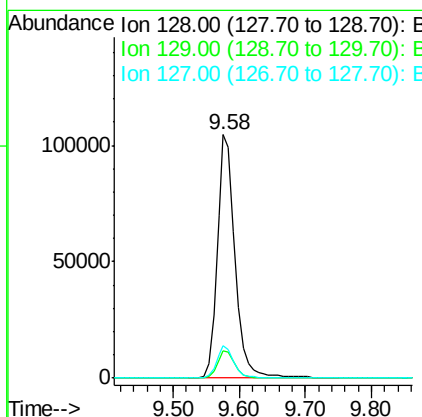
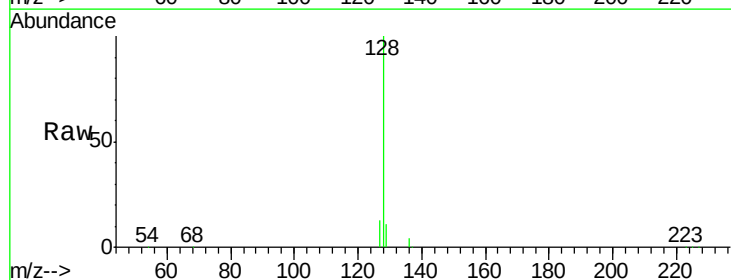
Instrument :
 BNA_E
 ClientSampleId :
 PB88398BS

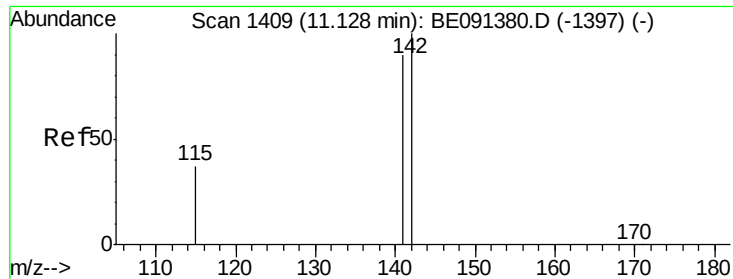
Tot Ion: 82 Resp: 66746
 Ion Ratio Lower Upper
 82 100
 128 31.7 25.0 37.4
 54 59.1 48.1 72.1



#6
 Naphthalene
 Concen: 4.15 ng
 RT: 9.58 min Scan# 1153
 Delta R.T. -0.02 min
 Lab File: BE091406.D
 Acq: 17 Feb 2016 16:15

Tgt Ion: 128 Resp: 197002
 Ion Ratio Lower Upper
 128 100
 129 11.0 9.1 13.7
 127 13.3 10.5 15.7





#7

2-Methylnaphthalene

Concen: 4.66 ng

RT: 11.10 min Scan# 1404

Delta R.T. -0.02 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

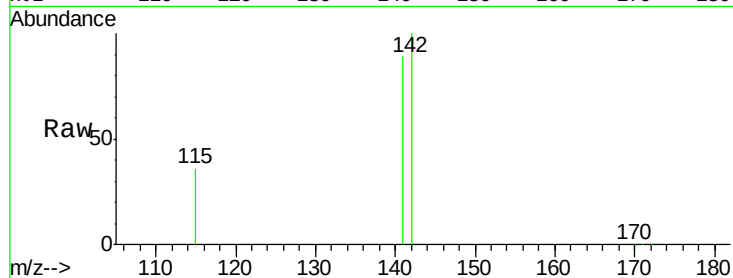
Tot Ion:142 Resp: 137701

Ion Ratio Lower Upper

142 100

141 88.7 72.3 108.5

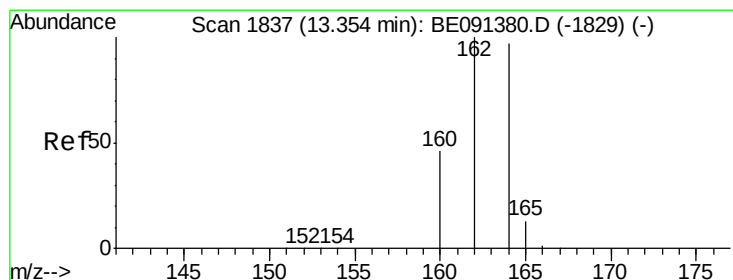
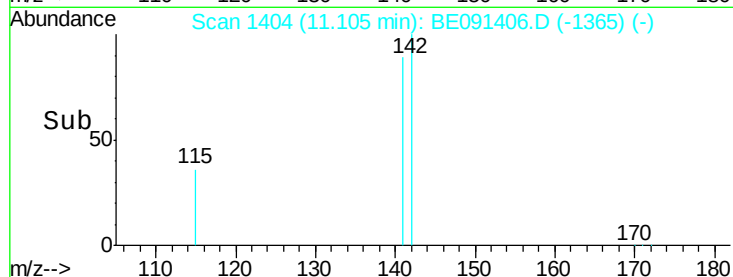
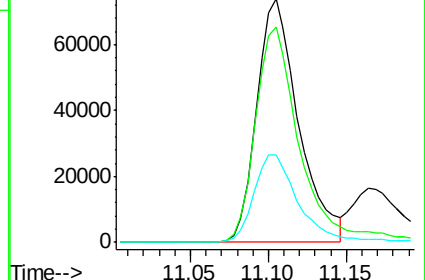
115 36.2 30.5 45.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

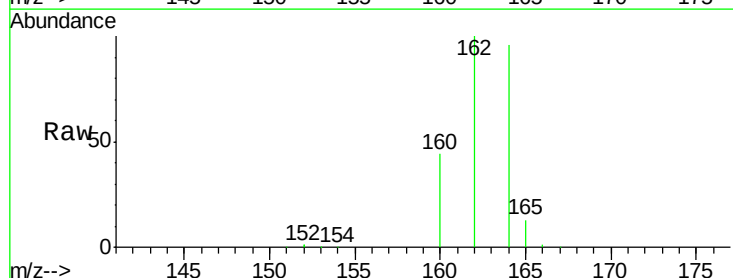
Tgt Ion:164 Resp: 137925

Ion Ratio Lower Upper

164 100

162 103.7 82.2 123.2

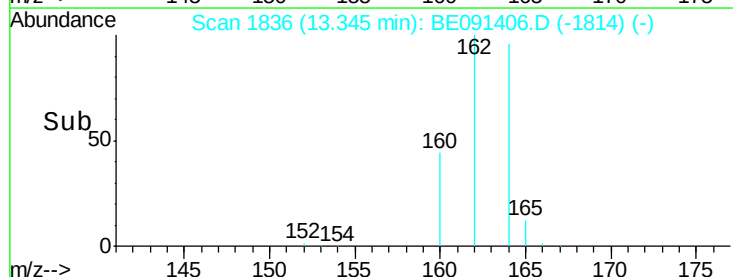
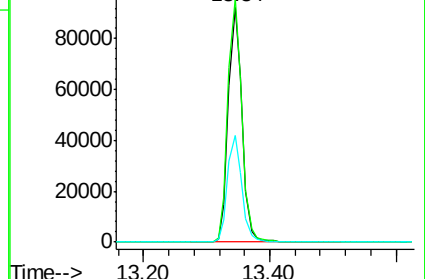
160 45.2 37.8 56.8

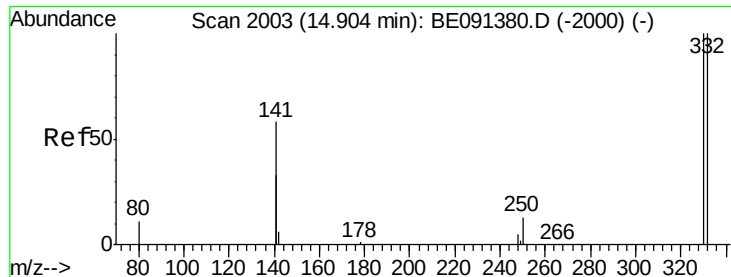


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 8.32 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

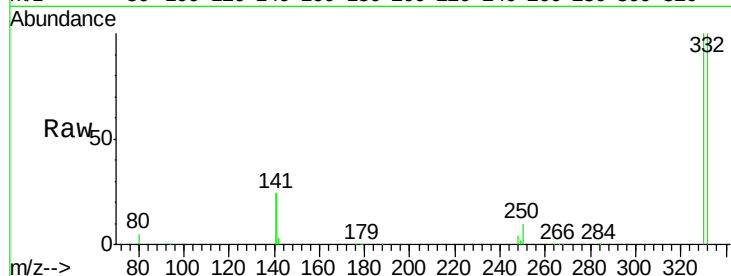
Tot Ion:330 Resp: 56260

Ion Ratio Lower Upper

330 100

332 96.1 78.8 118.2

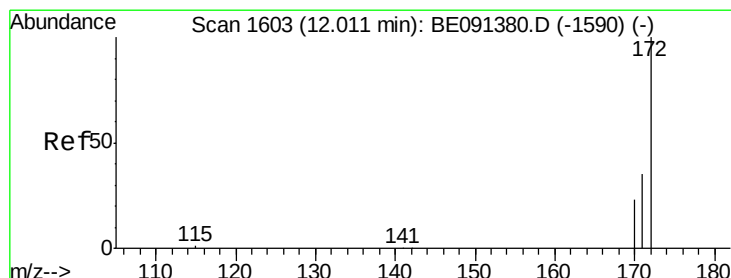
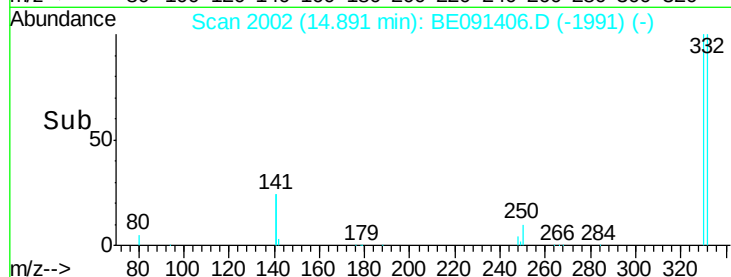
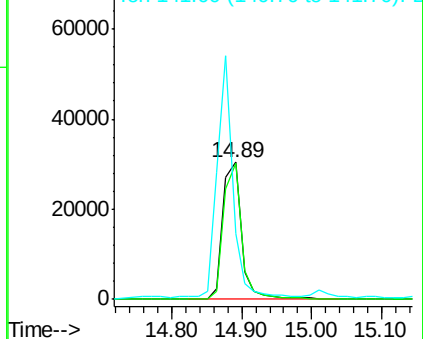
141 146.5 105.1 157.7



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 5.05 ng

RT: 11.99 min Scan# 1599

Delta R.T. -0.02 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

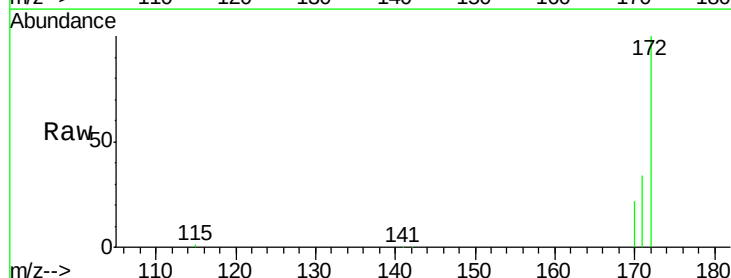
Tgt Ion:172 Resp: 181316

Ion Ratio Lower Upper

172 100

171 33.7 27.8 41.8

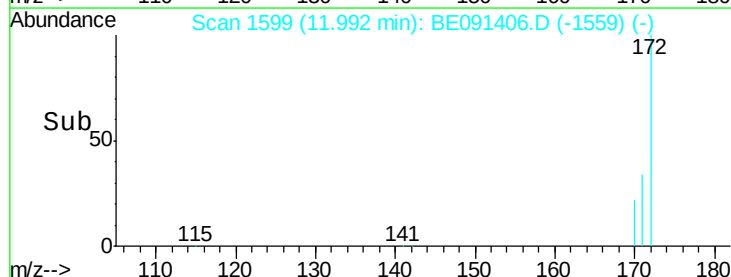
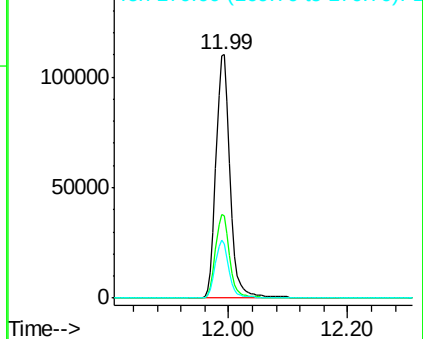
170 22.2 18.6 28.0

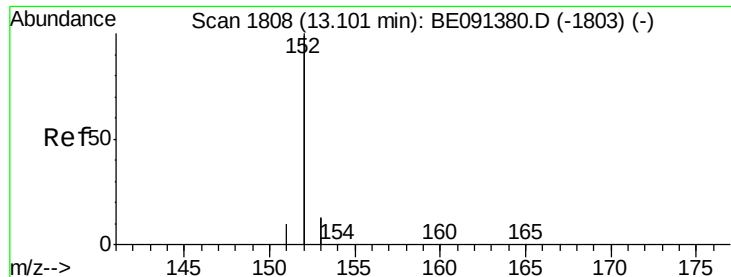


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 4.20 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

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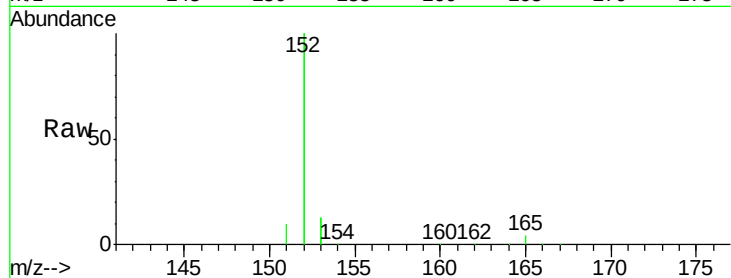
Tot Ion:152 Resp: 1003521

Ion Ratio Lower Upper

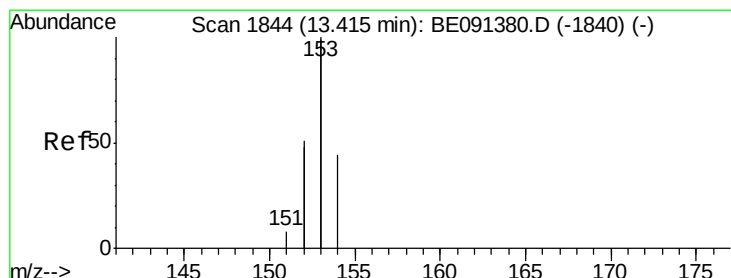
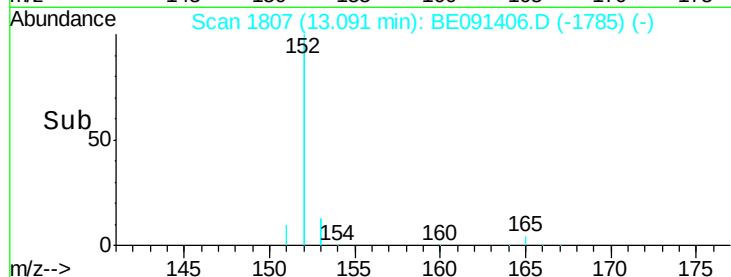
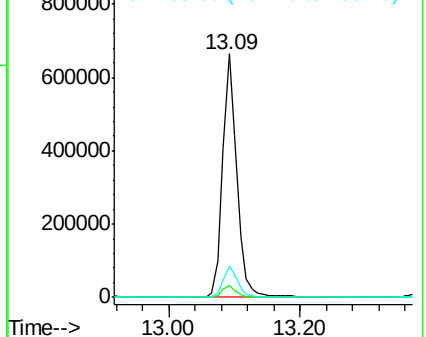
152 100

151 4.8 3.8 5.8

153 13.0 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#12

Acenaphthene

Concen: 4.11 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

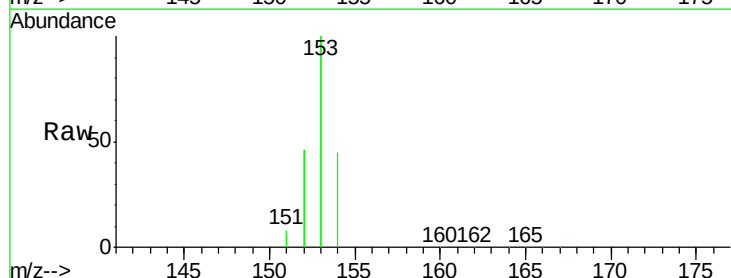
Tgt Ion:154 Resp: 155729

Ion Ratio Lower Upper

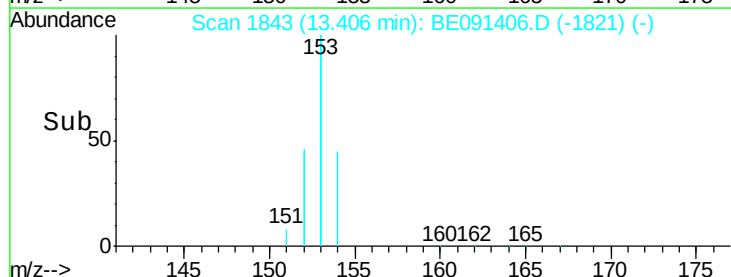
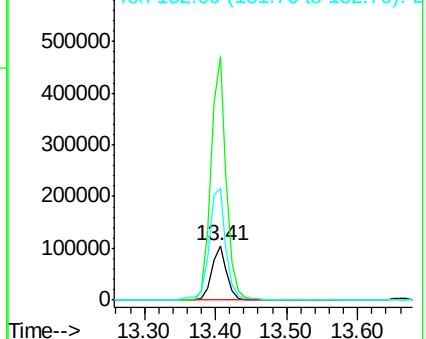
154 100

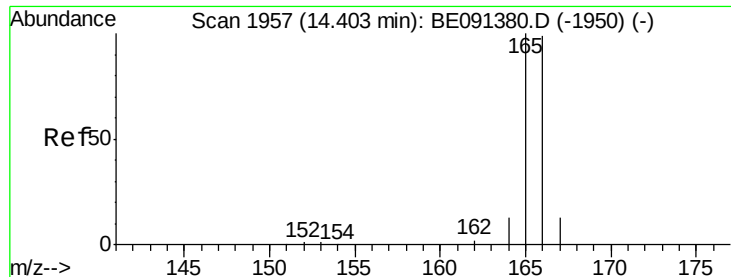
153 457.8 369.8 554.8

152 228.7 194.4 291.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 4.43 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

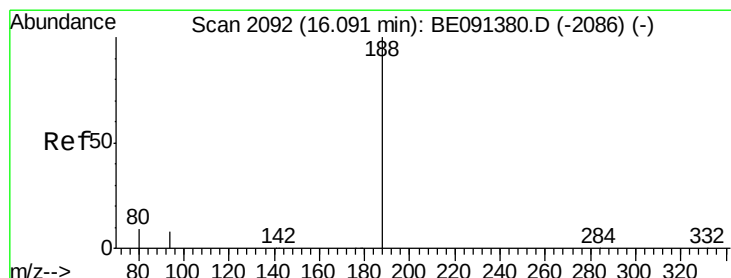
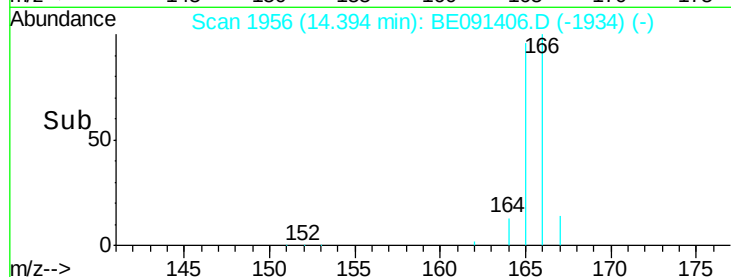
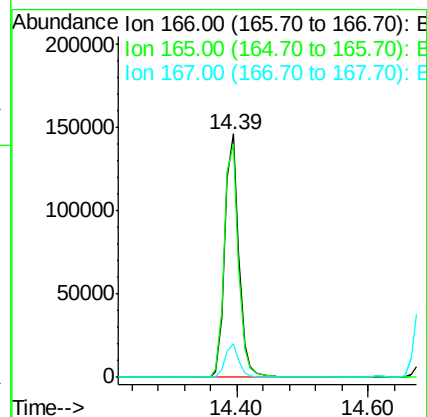
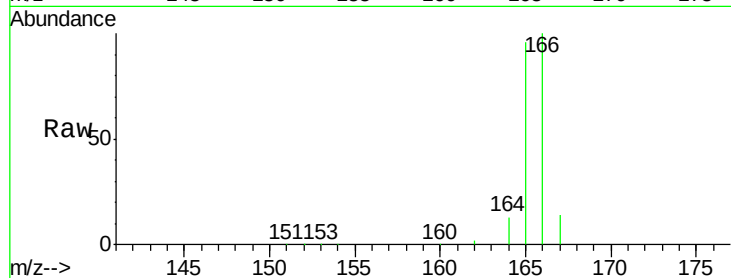
Tot Ion:166 Resp: 216818

Ion Ratio Lower Upper

166 100

165 98.0 79.3 118.9

167 13.6 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

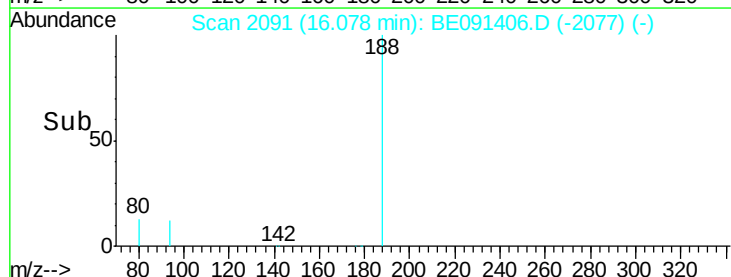
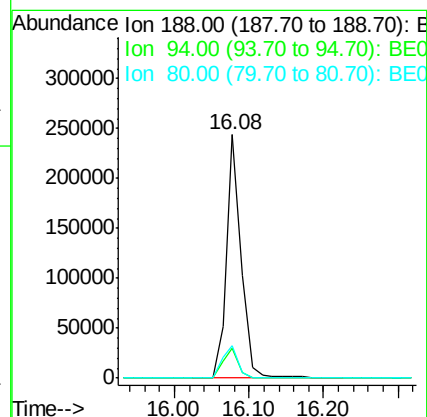
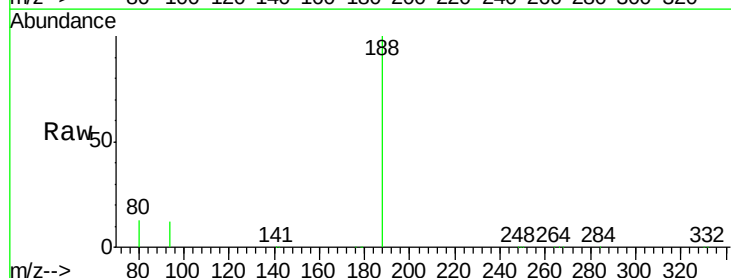
Tgt Ion:188 Resp: 336971

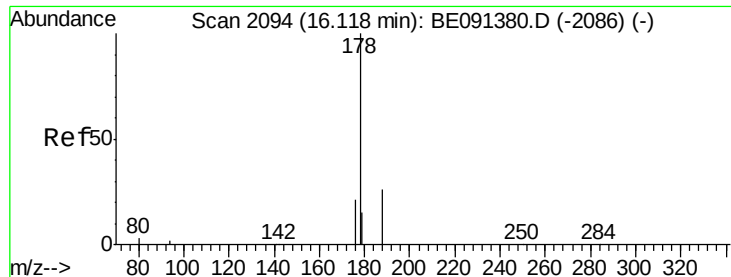
Ion Ratio Lower Upper

188 100

94 12.2 6.6 10.0#

80 13.3 7.0 10.6#





#15

Phenanthrene

Concen: 4.20 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

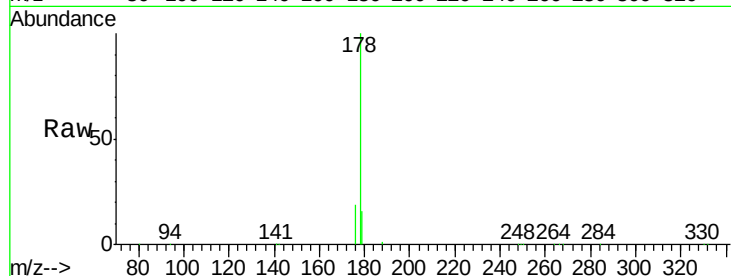
Tot Ion:178 Resp: 371246

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

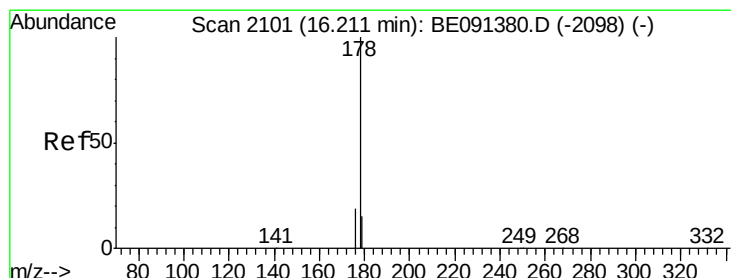
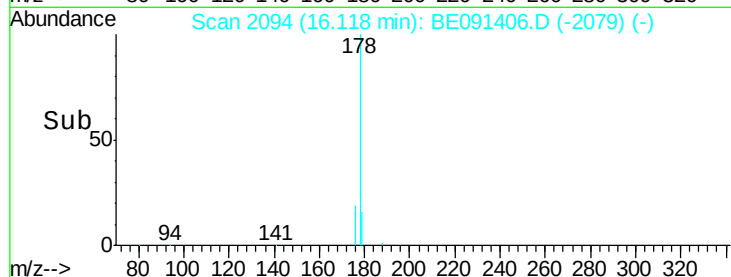
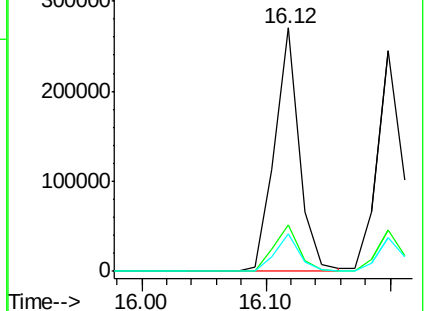
179 15.5 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#16

Anthracene

Concen: 4.90 ng

RT: 16.20 min Scan# 2100

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

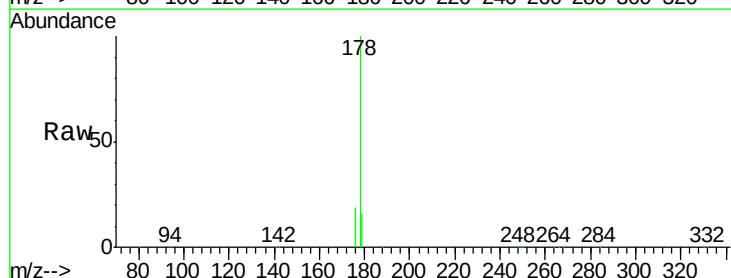
Tgt Ion:178 Resp: 363390

Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

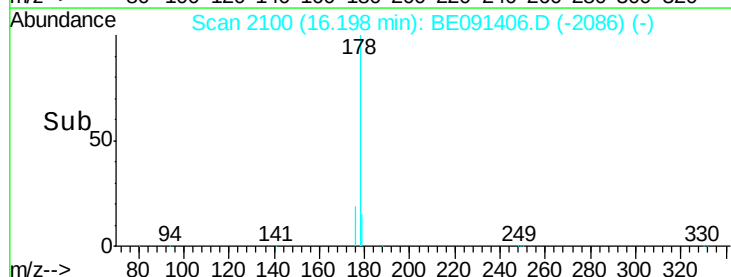
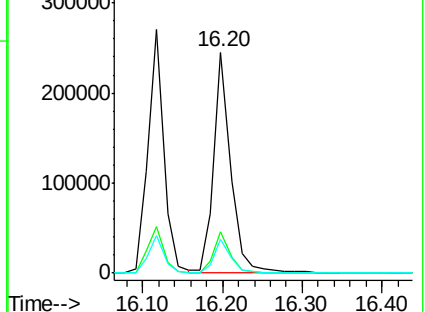
179 15.5 12.1 18.1

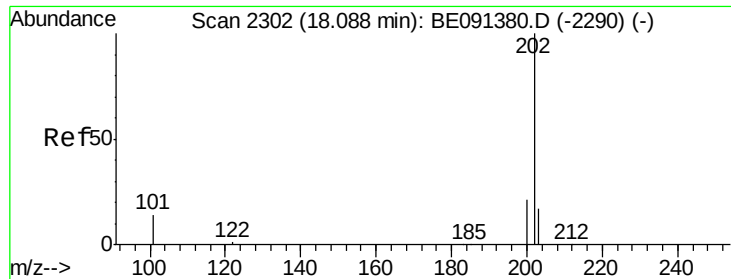


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

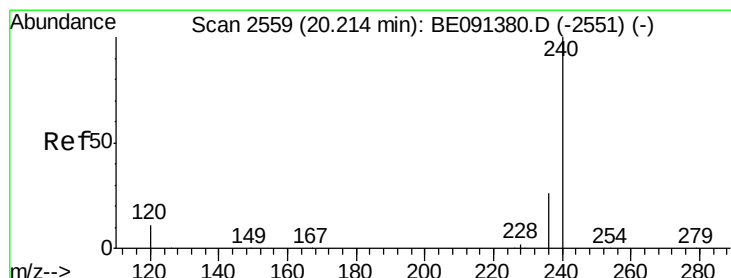
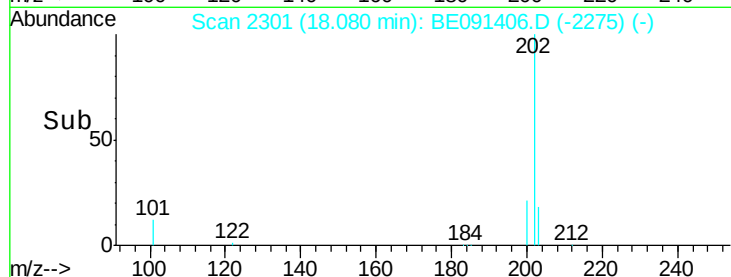
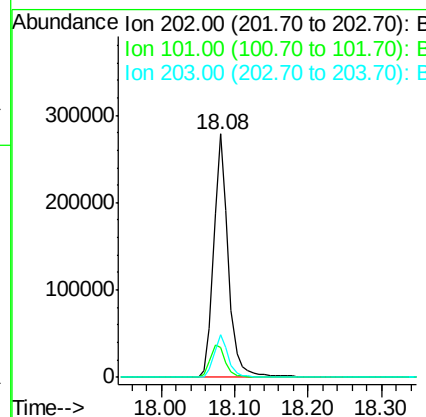
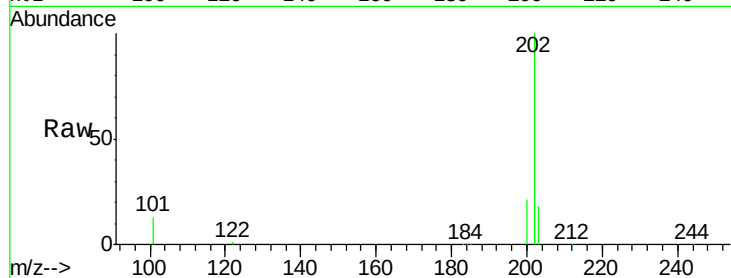




#17
 Fluoranthene
 Concen: 4.25 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091406.D
 Acq: 17 Feb 2016 16:15

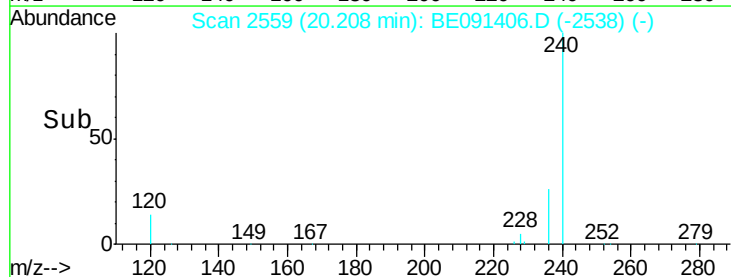
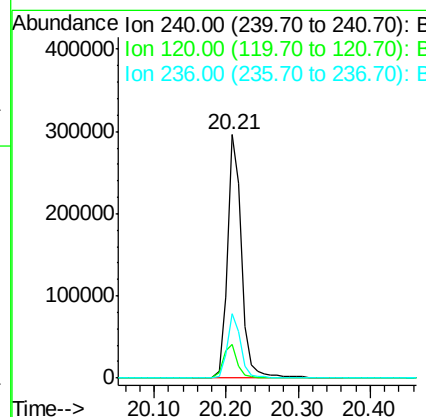
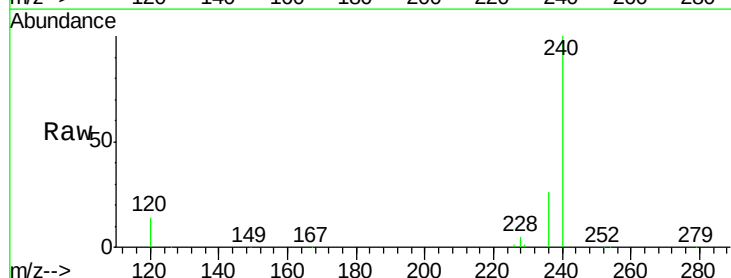
Instrument :
 BNA_E
 ClientSampleId :
 PB88398BS

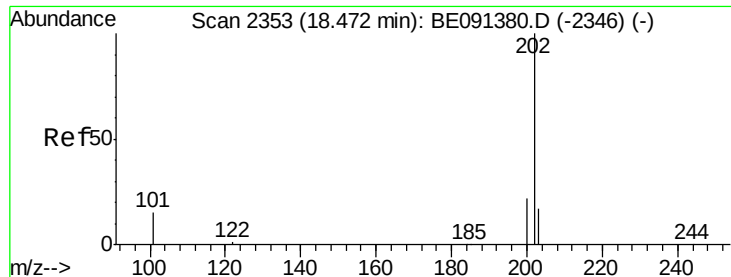
Tot Ion	Ratio	Lower	Upper
202	100		
101	14.1	10.5	15.7
203	17.3	13.9	20.9



#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. -0.01 min
 Lab File: BE091406.D
 Acq: 17 Feb 2016 16:15

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.9	8.9	13.3#
236	26.3	21.0	31.4





#19

Pvrene

Concen: 4.86 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

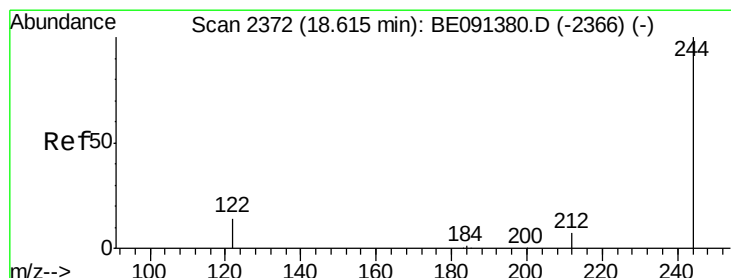
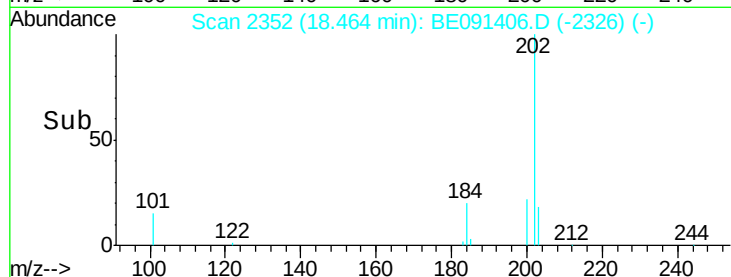
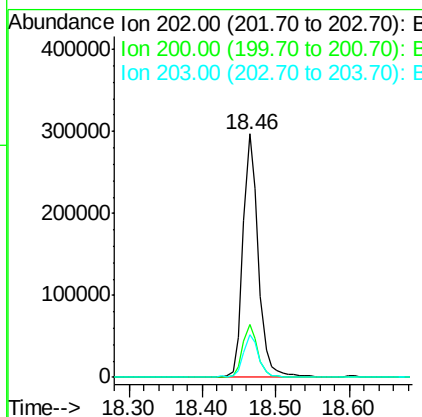
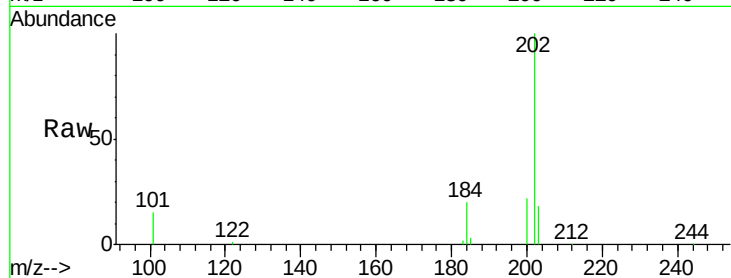
Instrument :

BNA_E

ClientSampleId :

PB88398BS

Tot Ion:	202	Resp:	428219
Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.8	25.2
203	18.0	14.0	21.0



#20

Terphenyl-d14

Concen: 4.76 ng

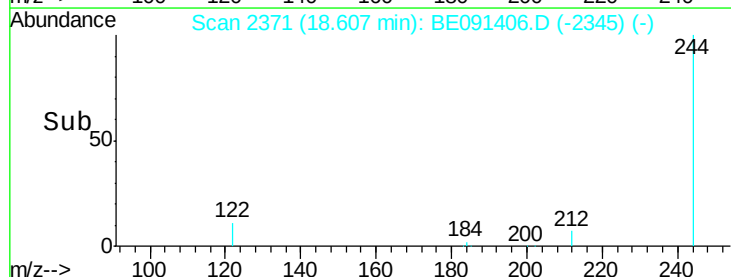
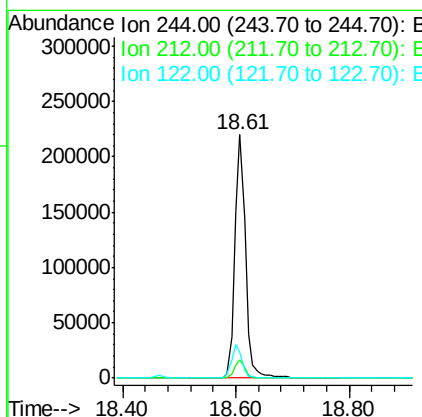
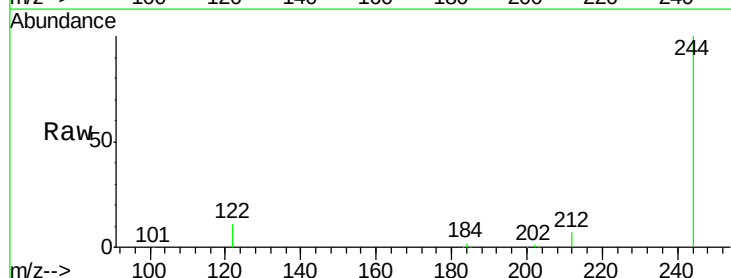
RT: 18.61 min Scan# 2371

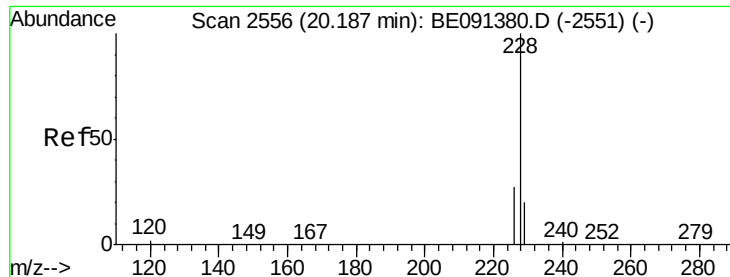
Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Tgt Ion:	244	Resp:	286371
Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.1	9.1
122	10.7	11.0	16.6#





#21

Benzo(a)anthracene

Concen: 4.26 ng

RT: 20.18 min Scan# 2556

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

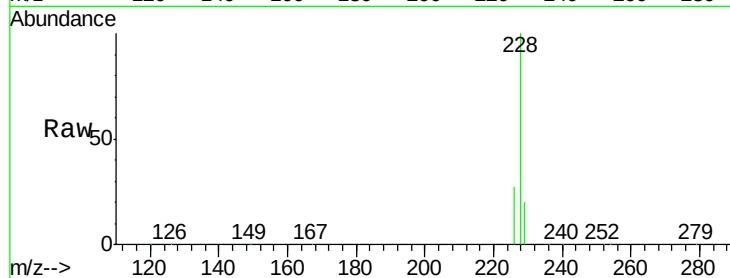
Tot Ion:228 Resp: 383887

Ion Ratio Lower Upper

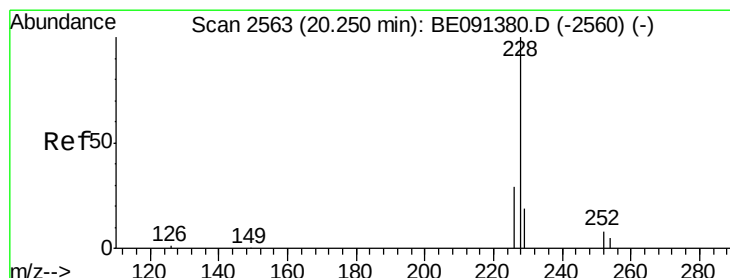
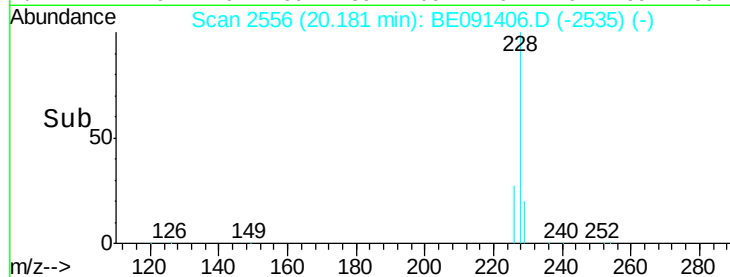
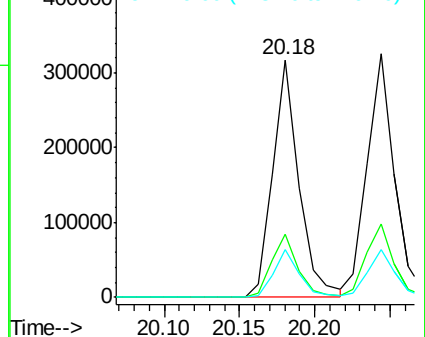
228 100

226 26.8 21.7 32.5

229 20.1 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#22

Chrysene

Concen: 4.19 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

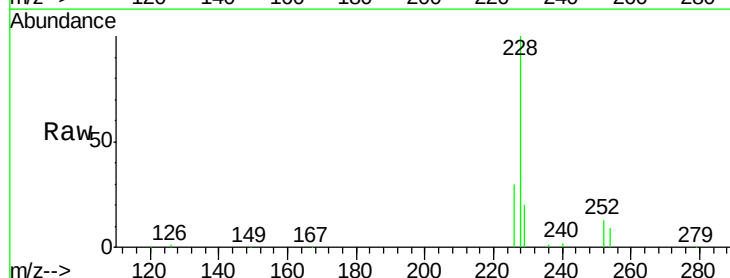
Tgt Ion:228 Resp: 423617

Ion Ratio Lower Upper

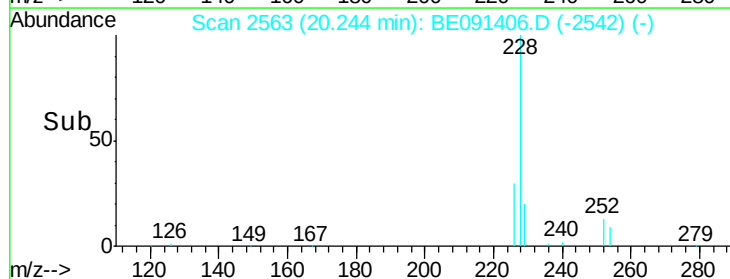
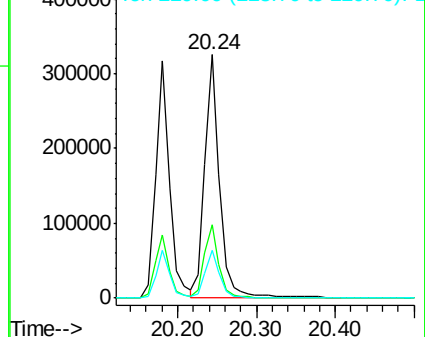
228 100

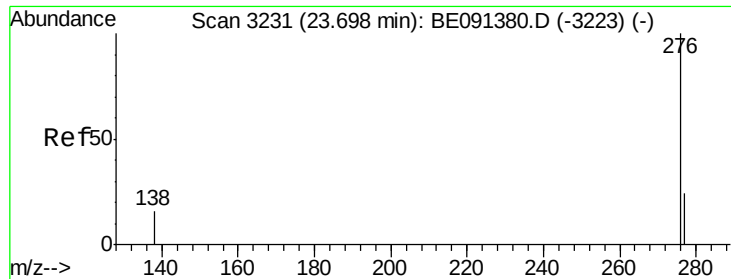
226 30.1 23.4 35.0

229 19.6 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

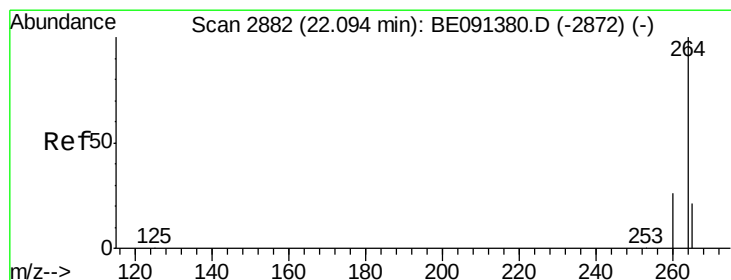
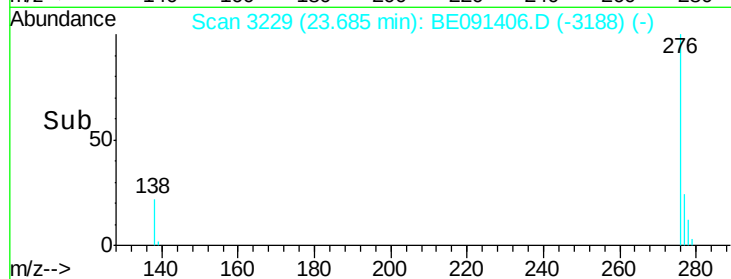
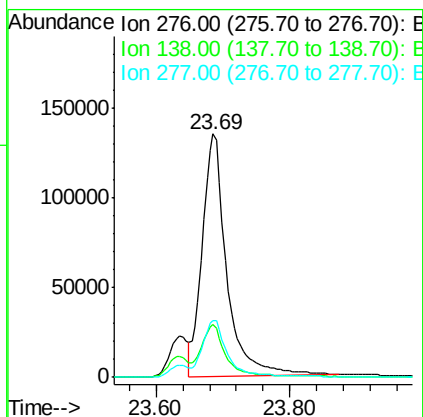
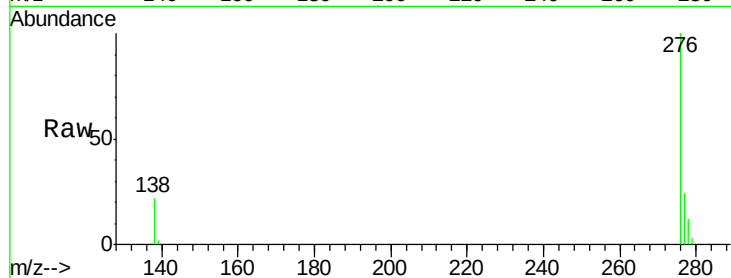




#23
Indeno(1,2,3-cd)pyrene
Concen: 3.74 ng
RT: 23.69 min Scan# 3229
Delta R.T. -0.01 min
Lab File: BE091406.D
Acq: 17 Feb 2016 16:15

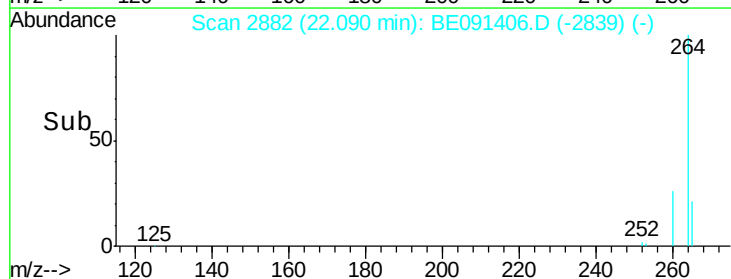
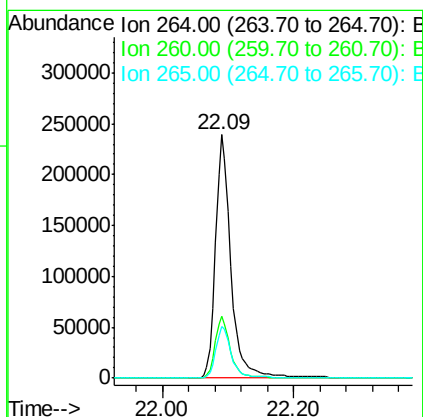
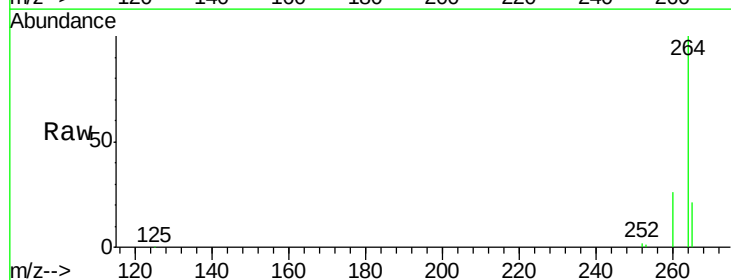
Instrument :
BNA_E
ClientSampleId :
PB88398BS

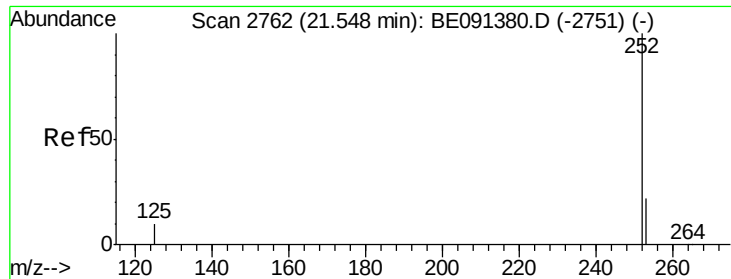
Tot Ion:276 Resp: 341766
Ion Ratio Lower Upper
276 100
138 21.7 16.6 25.0
277 23.6 19.0 28.6



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BE091406.D
Acq: 17 Feb 2016 16:15

Tgt Ion:264 Resp: 391595
Ion Ratio Lower Upper
264 100
260 25.6 20.7 31.1
265 21.3 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 4.08 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS

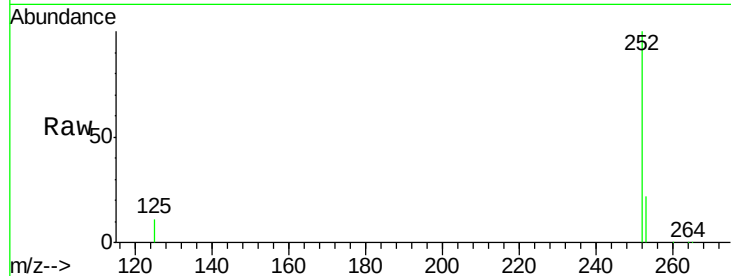
Tot Ion:252 Resp: 394859

Ion Ratio Lower Upper

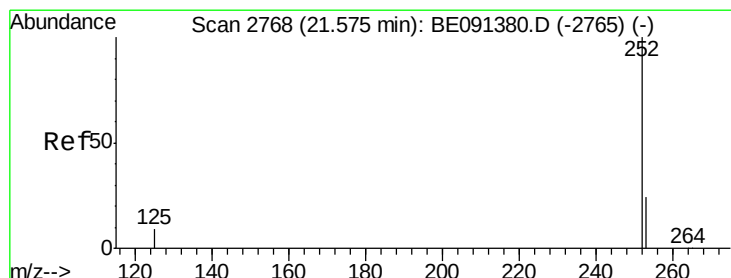
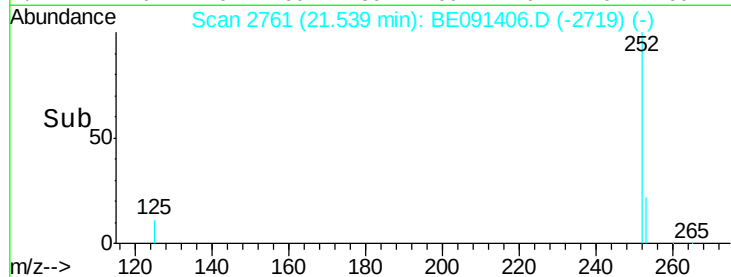
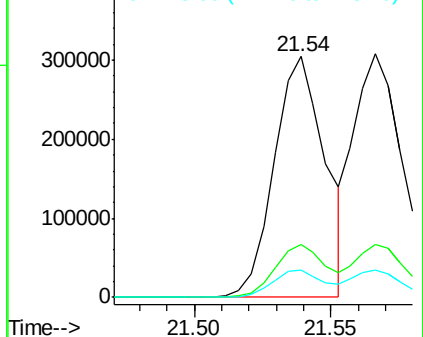
252 100

253 22.2 18.2 27.2

125 11.3 8.3 12.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 4.34 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.01 min

Lab File: BE091406.D

Acq: 17 Feb 2016 16:15

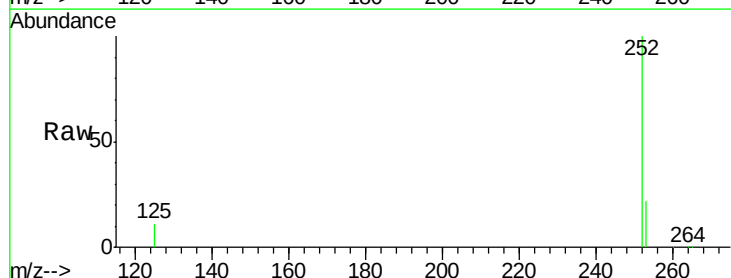
Tgt Ion:252 Resp: 423924

Ion Ratio Lower Upper

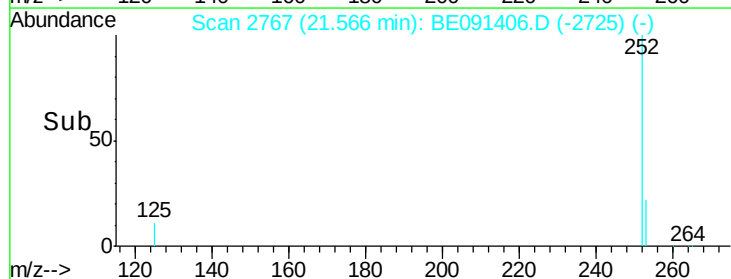
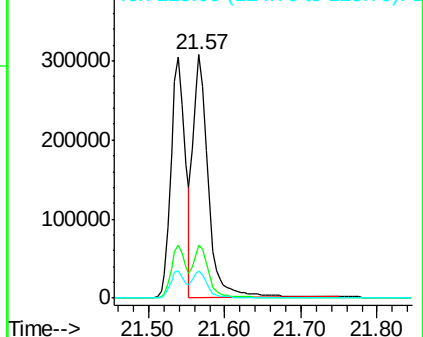
252 100

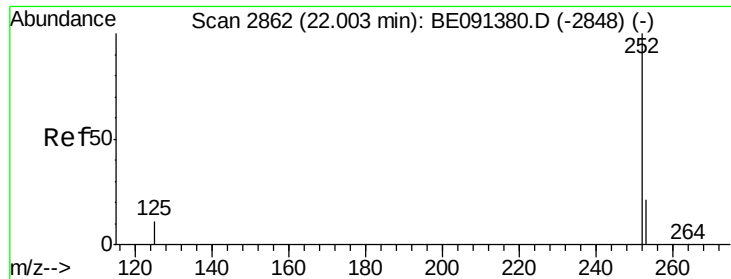
253 21.8 18.1 27.1

125 11.4 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

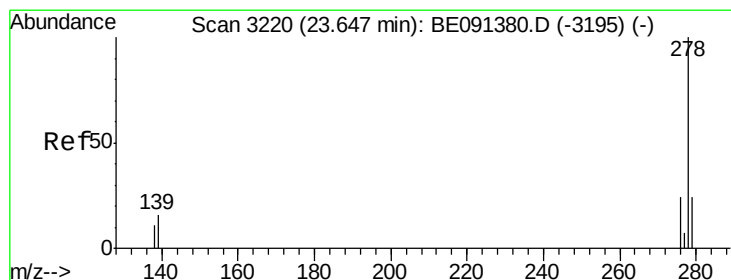
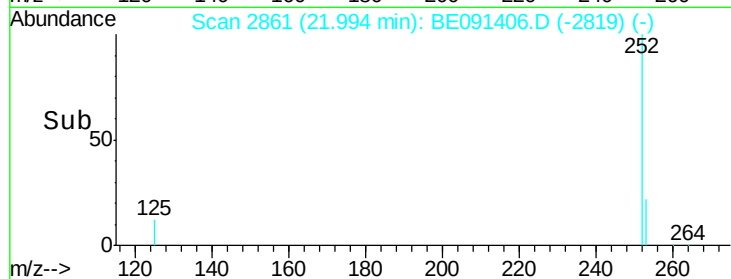
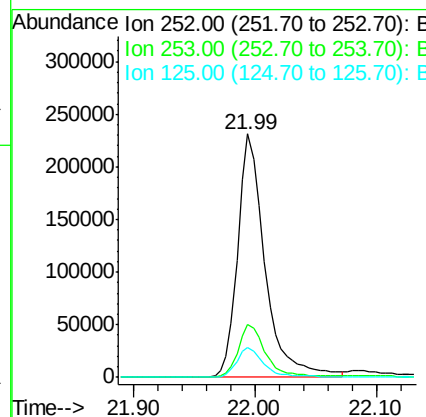
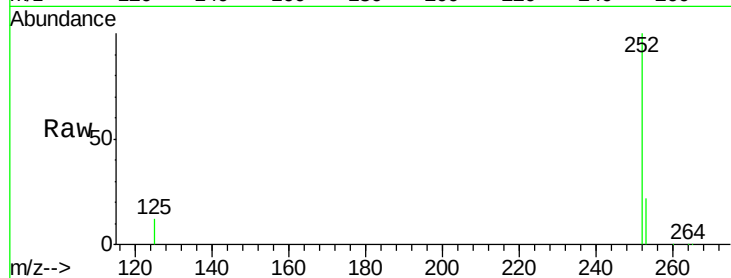




#27
Benzo(a)pyrene
Concen: 4.02 ng
RT: 21.99 min Scan# 2861
Delta R.T. -0.01 min
Lab File: BE091406.D
Acq: 17 Feb 2016 16:15

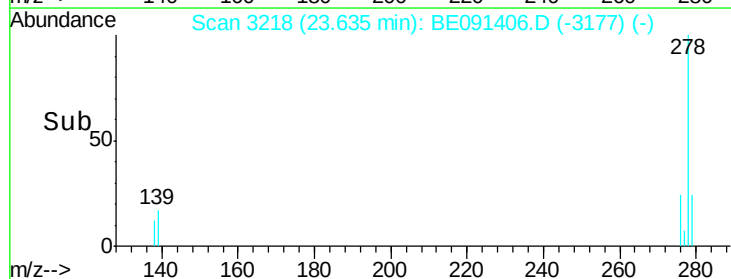
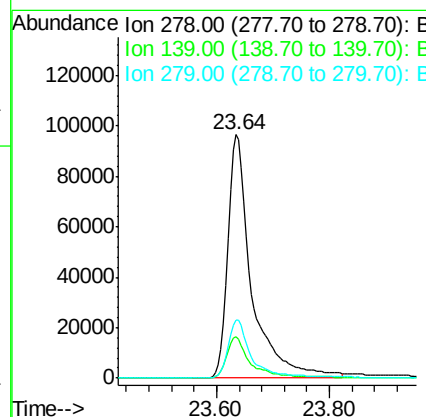
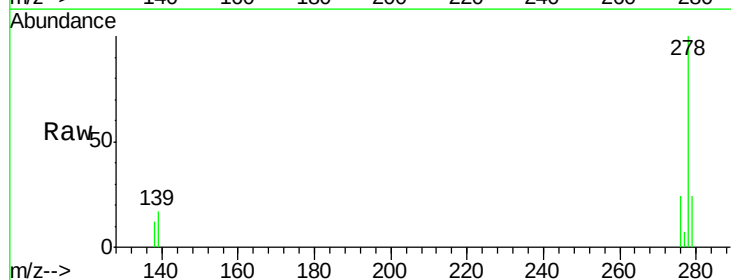
Instrument :
BNA_E
ClientSampleId :
PB88398BS

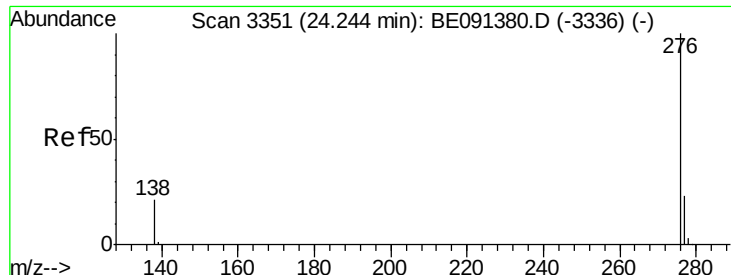
Tot Ion:252 Resp: 358818
Ion Ratio Lower Upper
252 100
253 21.8 17.5 26.3
125 12.3 9.4 14.0



#28
Dibenzo(a,h)anthracene
Concen: 3.24 ng
RT: 23.64 min Scan# 3218
Delta R.T. -0.01 min
Lab File: BE091406.D
Acq: 17 Feb 2016 16:15

Tgt Ion:278 Resp: 281358
Ion Ratio Lower Upper
278 100
139 17.0 13.0 19.4
279 23.6 19.2 28.8





#29

Benzo(a,h,i)perylene

Concen: 3.82 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.01 min

Lab File: BE091406.D

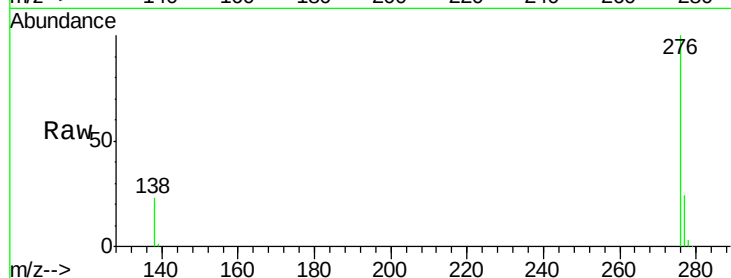
Acq: 17 Feb 2016 16:15

Instrument :

BNA_E

ClientSampleId :

PB88398BS



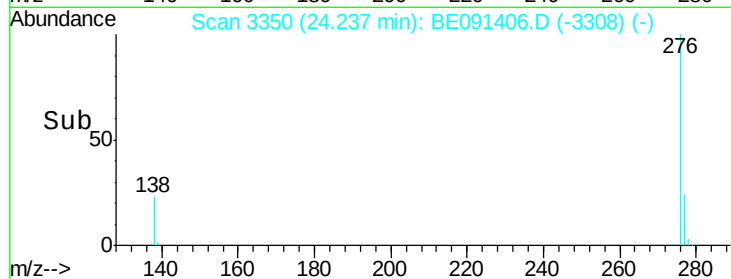
Tot Ion: 276 Resp: 368408

Ion Ratio Lower Upper

276 100

277 24.0 18.9 28.3

138 22.7 17.0 25.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

