

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040116\
 Data File : BE091590.D
 Acq On : 31 Mar 2016 19:54
 Operator : UM/SJ
 Sample : SSTDC00.4
 Misc : LOO WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 01 00:47:18 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	35178	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	171422	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	106396	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	264569	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	346263	5.00	ng	-0.02
28) Perylene-d12	23.76	264	312074	5.00	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	3493	0.38	ng	-0.01
5) Phenol-d6	6.97	99	4838	0.39	ng	-0.02
7) Nitrobenzene-d5	8.96	82	4235	0.37	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	1299	0.28	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	11671	0.39	ng	-0.02
24) Terphenyl-d14	19.76	244	17897	0.41	ng	-0.02

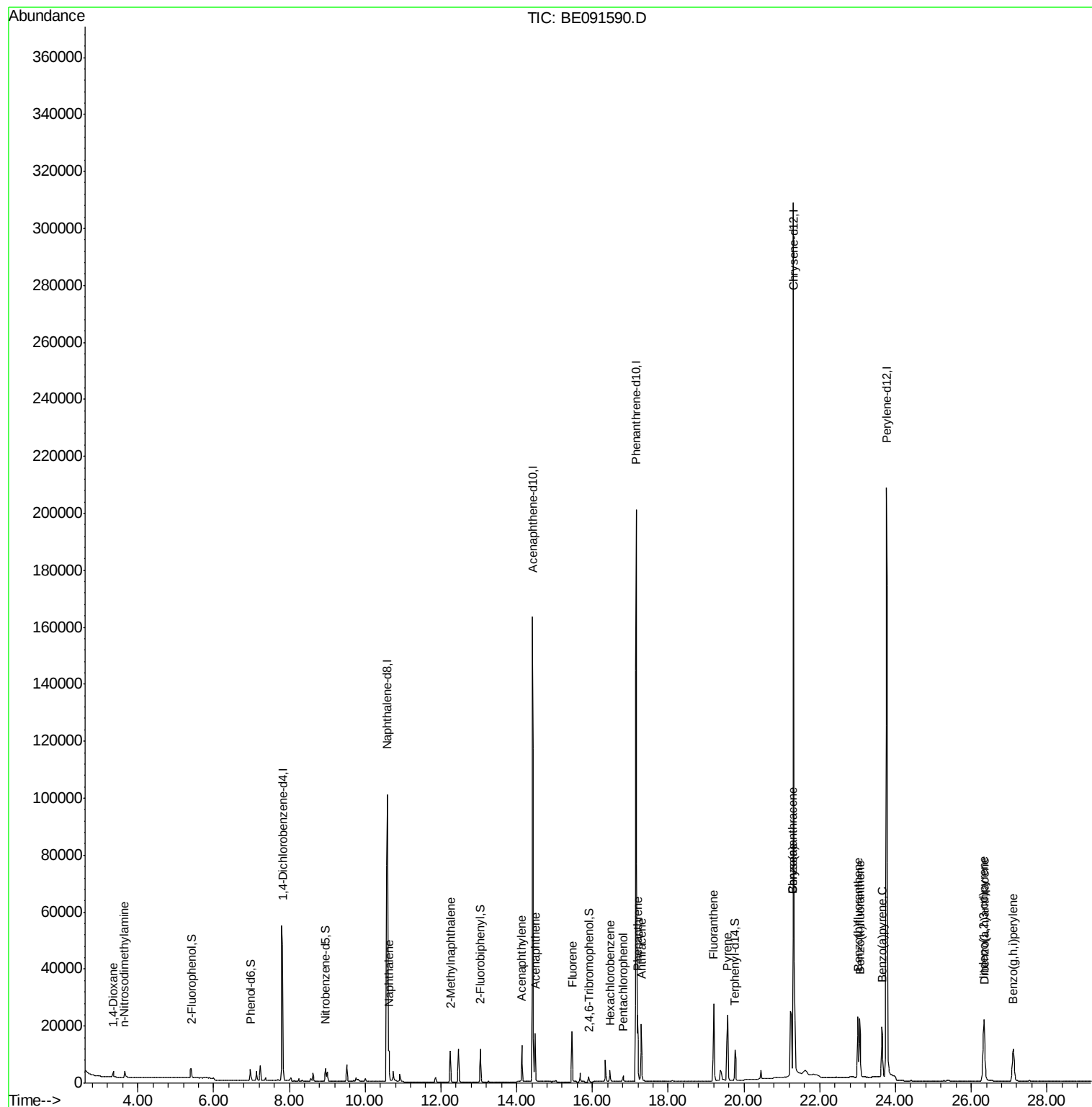
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.35	88	1852	0.35	ng	94
3) n-Nitrosodimethylamine	3.64	42	2223	0.35	ng	# 98
8) Naphthalene	10.63	128	13746	0.39	ng	97
9) 2-Methylnaphthalene	12.25	142	9081	0.39	ng	97
13) Acenaphthylene	14.14	152	18424	0.43	ng	# 93
14) Acenaphthene	14.49	154	10310	0.39	ng	96
15) Fluorene	15.47	166	13184	0.39	ng	99
17) Hexachlorobenzene	16.46	284	3881	0.40	ng	99
18) Pentachlorophenol	16.81	266	1713	0.31	ng	87
19) Phenanthrene	17.20	178	24062	0.39	ng	99
20) Anthracene	17.29	178	22205	0.39	ng	100
21) Fluoranthene	19.21	202	28344	0.39	ng	99
23) Pvrene	19.57	202	28875	0.41	ng	99
25) Benzo(a)anthracene	21.29	228	61356	0.75	ng	99
26) Chrysene	21.29	228	61840	0.89	ng	# 86
27) Indeno(1,2,3-cd)pyrene	26.33	276	33130	0.41	ng	100
29) Benzo(b)fluoranthene	23.01	252	30703	0.41	ng	100
30) Benzo(k)fluoranthene	23.06	252	28687	0.39	ng	96
31) Benzo(a)pvrene	23.65	252	28872	0.42	ng	98
32) Dibenzo(a,h)anthracene	26.35	278	27262	0.40	ng	98
33) Benzo(g,h,i)perylene	27.12	276	27777	0.40	ng	99

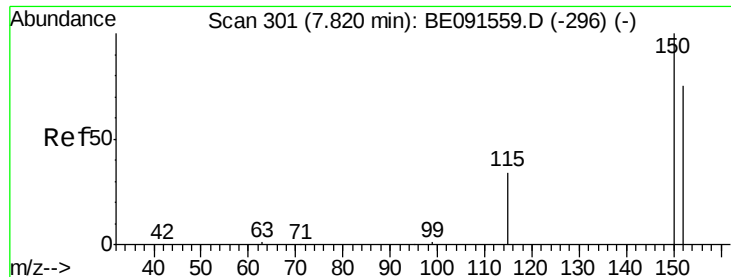
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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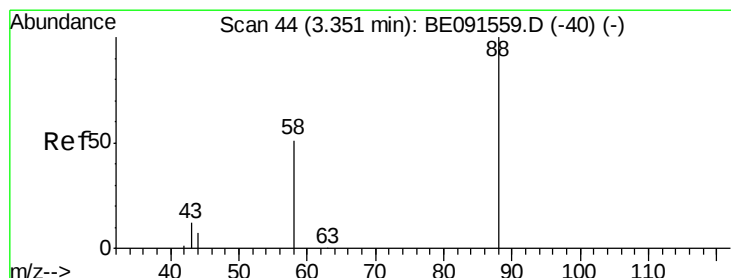
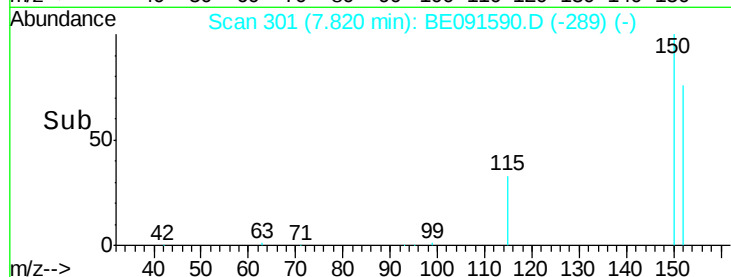
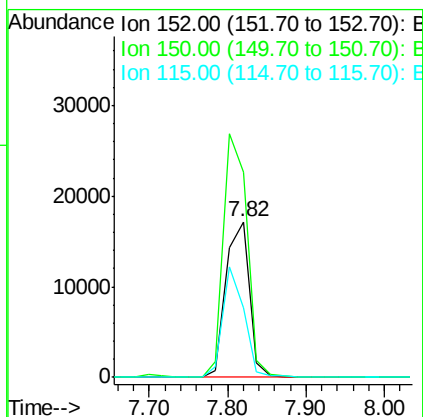
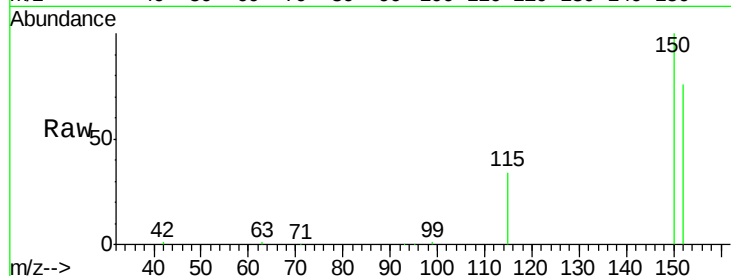


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Instrument :
BNA_E
ClientSampleId :

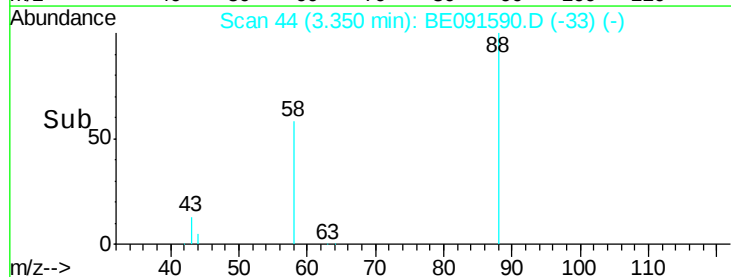
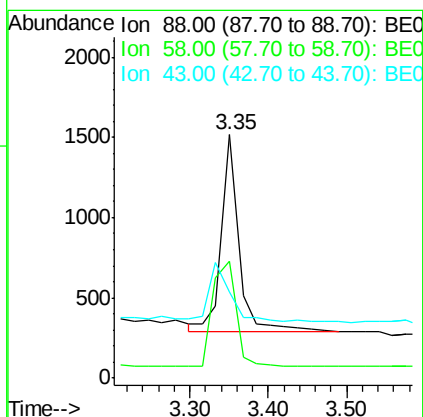
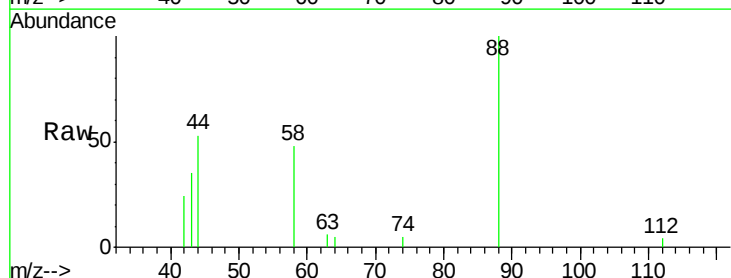
Tot Ion:152 Resp: 35178
Ion Ratio Lower Upper
152 100
150 132.1 122.2 183.2
115 44.5 45.9 68.9#

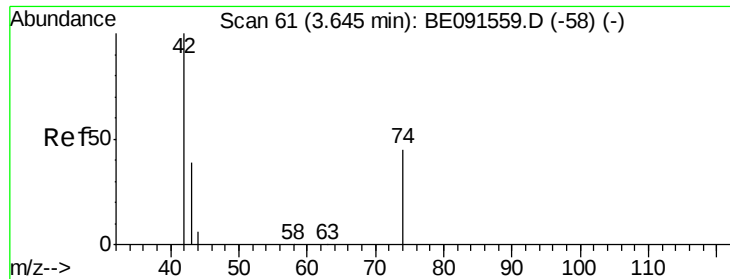


#2

1,4-Dioxane
Concen: 0.35 ng
RT: 3.35 min Scan# 44
Delta R.T. -0.01 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Tgt Ion: 88 Resp: 1852
Ion Ratio Lower Upper
88 100
58 72.4 61.0 91.6
43 37.4 25.4 38.2



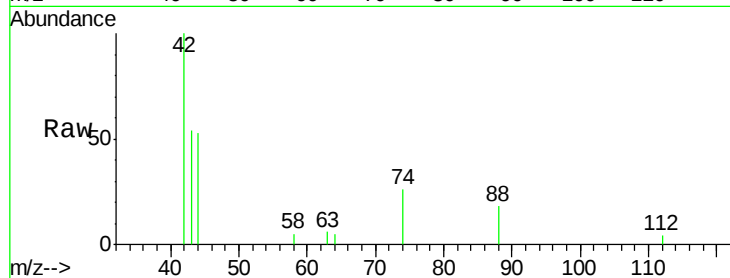


#3

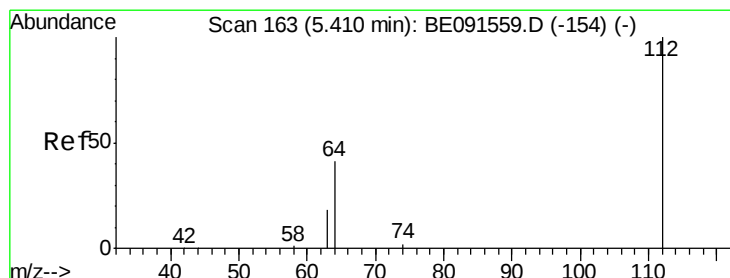
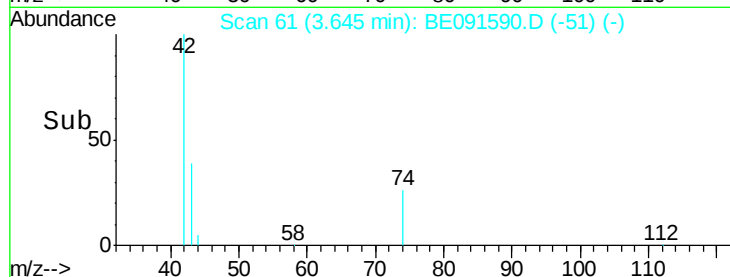
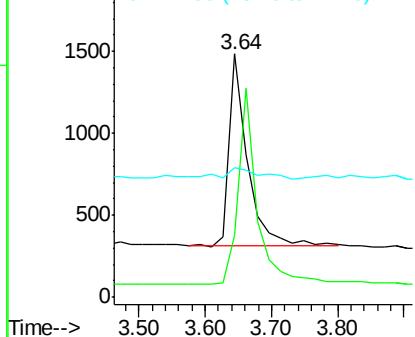
n-Nitrosodimethylamine
 Concen: 0.35 ng
 RT: 3.64 min Scan# 61
 Delta R.T. -0.03 min
 Lab File: BE091590.D
 Acq: 31 Mar 2016 19:54

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 2223
 Ion Ratio Lower Upper
 42 100
 74 106.4 84.3 126.5
 44 11.2 6.7 10.1#



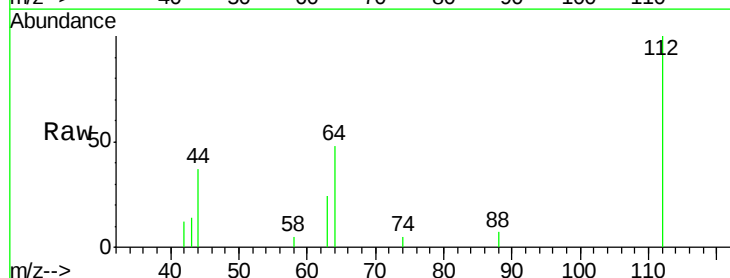
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



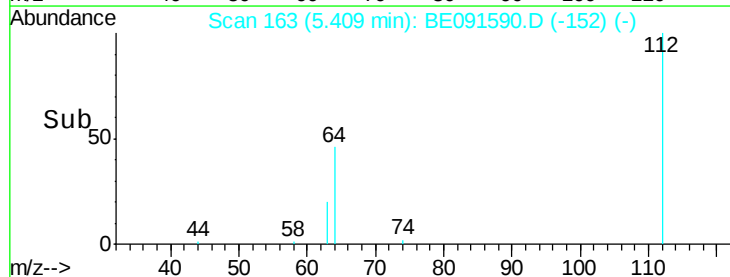
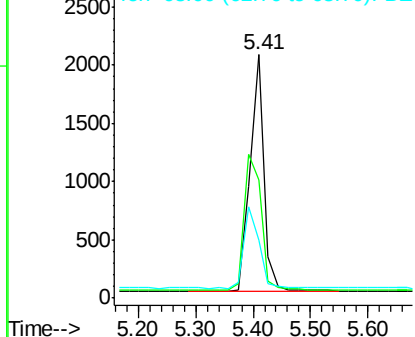
#4

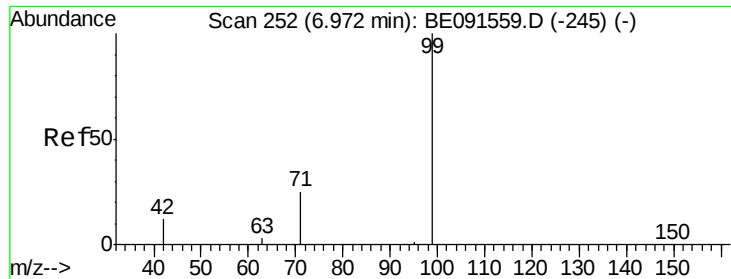
2-Fluorophenol
 Concen: 0.38 ng
 RT: 5.41 min Scan# 163
 Delta R.T. -0.01 min
 Lab File: BE091590.D
 Acq: 31 Mar 2016 19:54

Tgt Ion: 112 Resp: 3493
 Ion Ratio Lower Upper
 112 100
 64 69.0 53.3 79.9
 63 37.4 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





#5

Phenol-d6

Concen: 0.39 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :

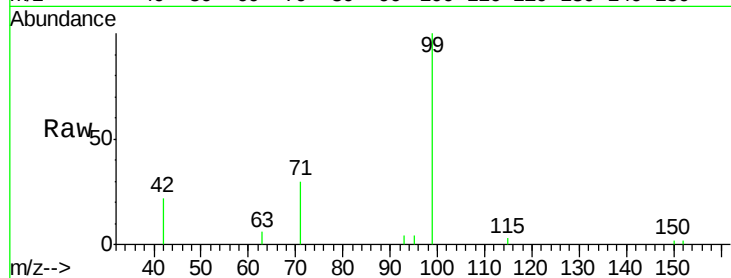
Tot Ion: 99 Resp: 4838

Ion Ratio Lower Upper

99 100

42 27.0 20.6 30.8

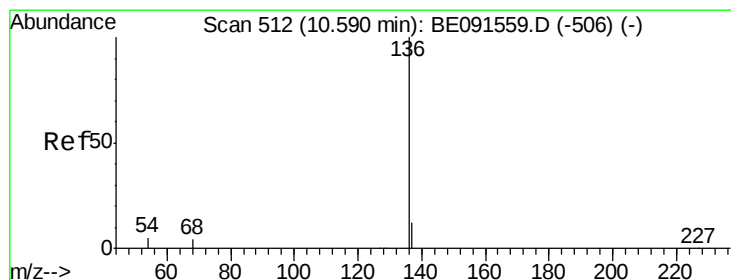
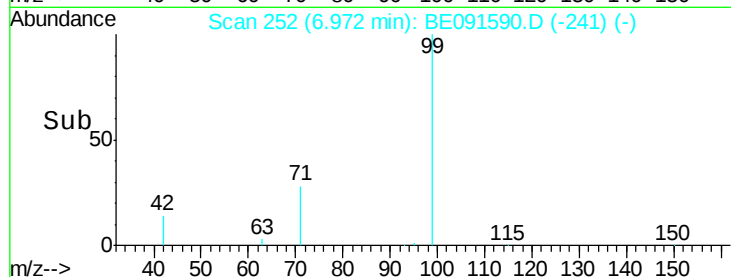
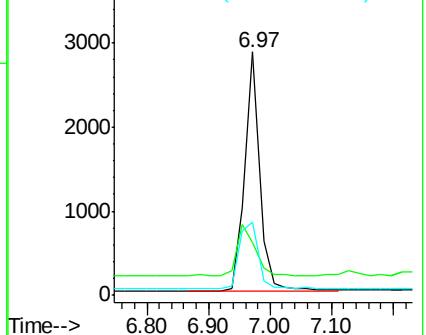
71 36.6 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BE091559.D (-245) (-)

Ion 42.00 (41.70 to 42.70): BE091559.D (-245) (-)

Ion 71.00 (70.70 to 71.70): BE091559.D (-245) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Tgt Ion: 136 Resp: 171422

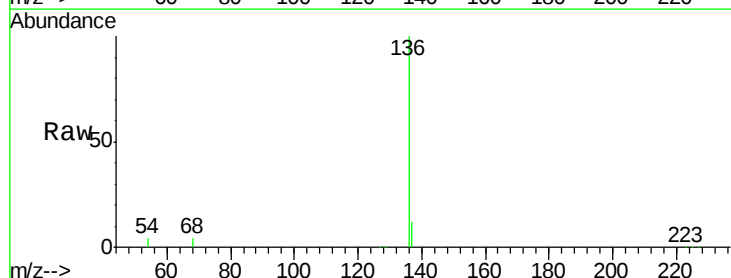
Ion Ratio Lower Upper

136 100

137 11.7 8.8 13.2

54 4.5 5.2 7.8#

68 3.8 4.1 6.1#

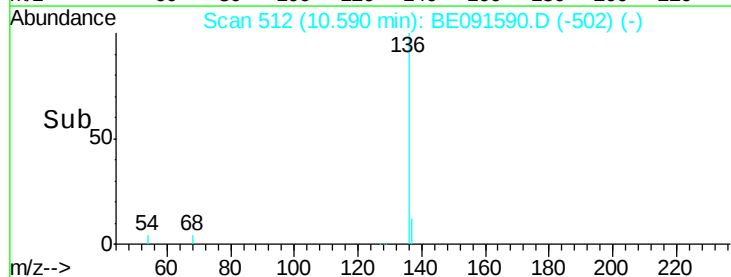
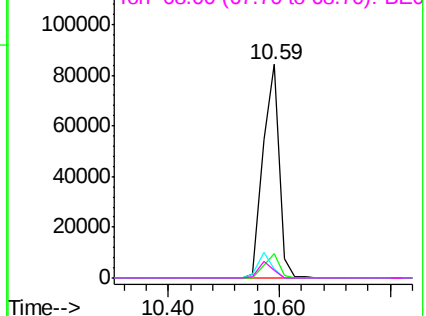


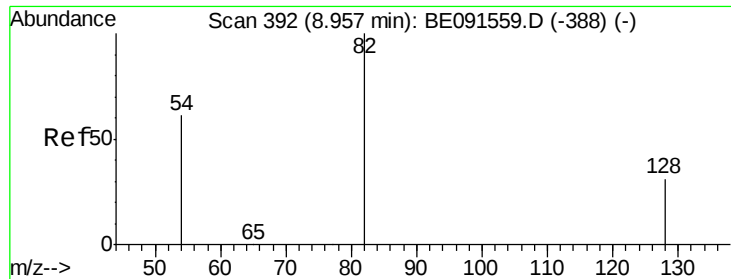
Abundance Ion 136.00 (135.70 to 136.70): BE091559.D (-506) (-)

Ion 137.00 (136.70 to 137.70): BE091559.D (-506) (-)

Ion 54.00 (53.70 to 54.70): BE091559.D (-506) (-)

Ion 68.00 (67.70 to 68.70): BE091559.D (-506) (-)





#7

Nitrobenzene-d5

Concen: 0.37 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :

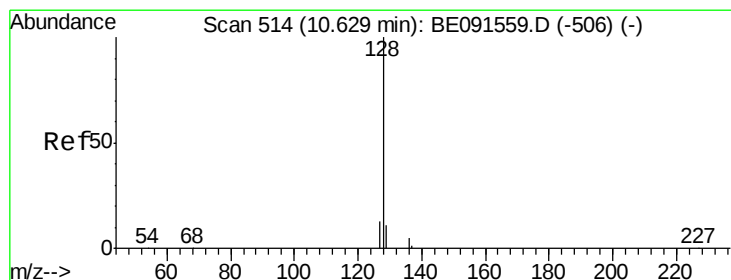
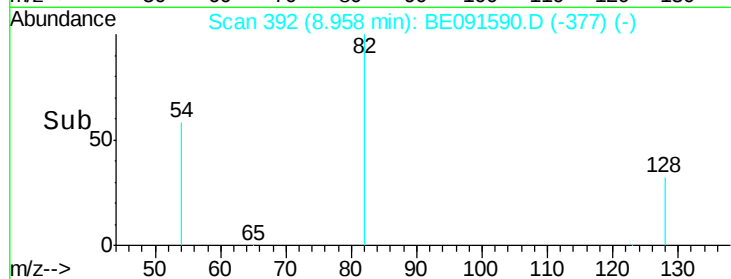
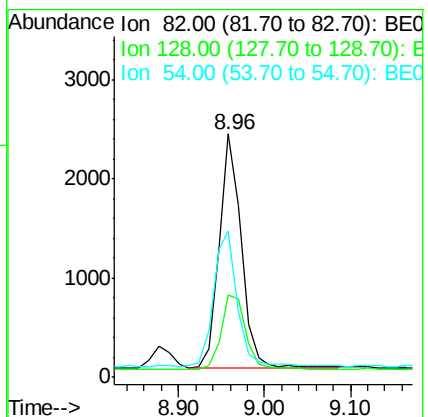
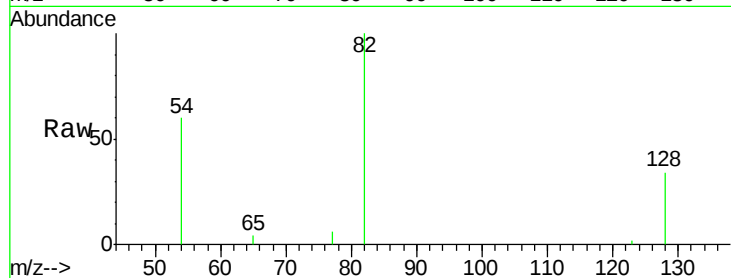
Tot Ion: 82 Resp: 4235

Ion Ratio Lower Upper

82 100

128 33.7 23.5 35.3

54 59.9 52.4 78.6



#8

Naphthalene

Concen: 0.39 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

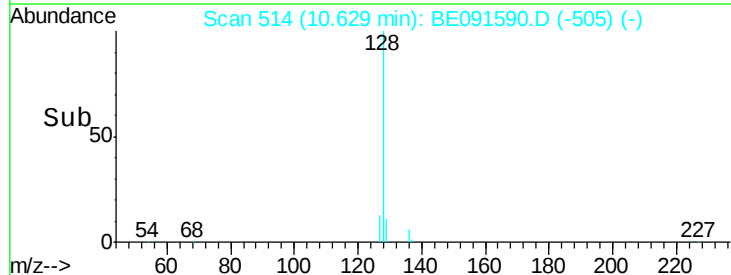
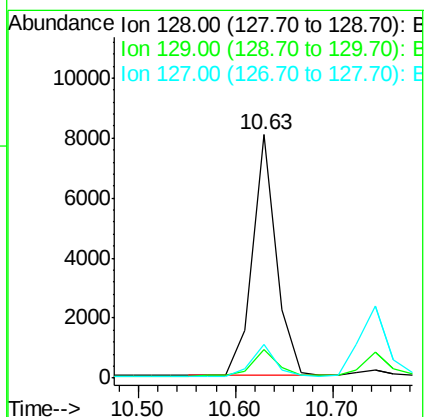
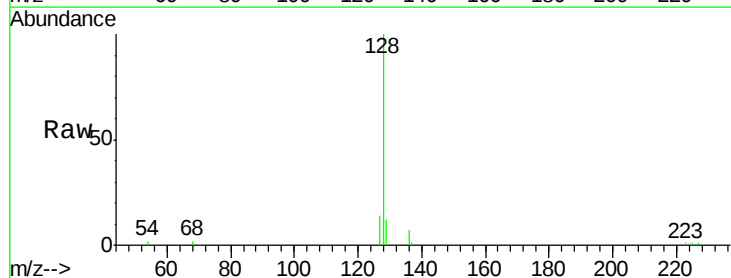
Tgt Ion: 128 Resp: 13746

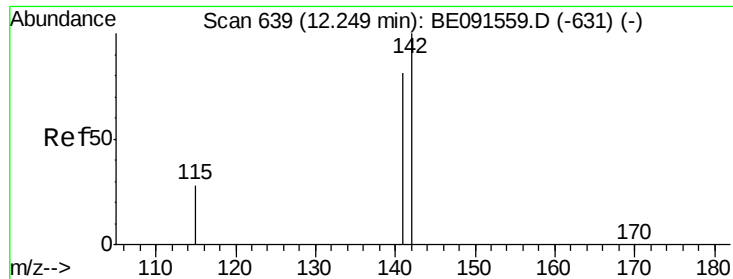
Ion Ratio Lower Upper

128 100

129 11.5 8.2 12.2

127 13.7 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.39 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

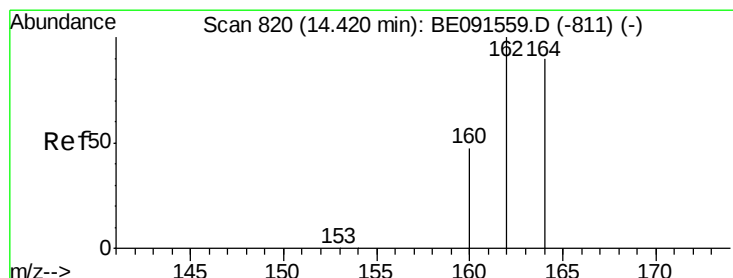
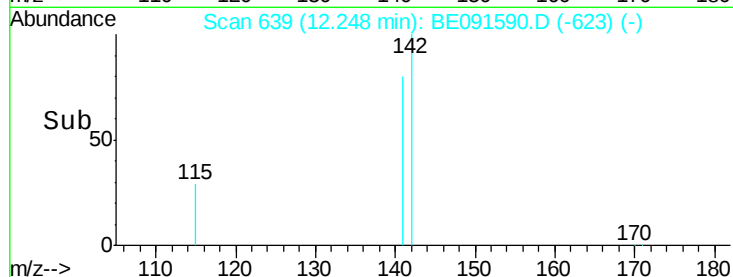
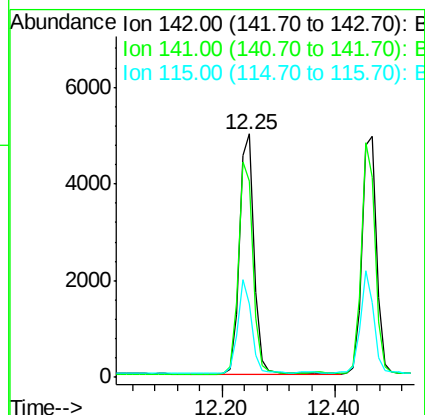
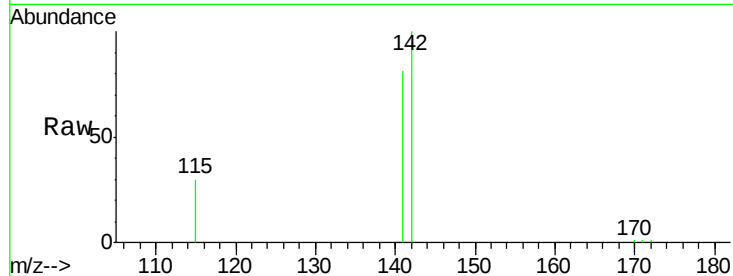
Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :
BNA_E
ClientSampleId :

Tot Ion:142 Resp: 9081

Ion	Ratio	Lower	Upper
142	100		
141	80.5	66.9	100.3
115	30.1	25.1	37.7



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

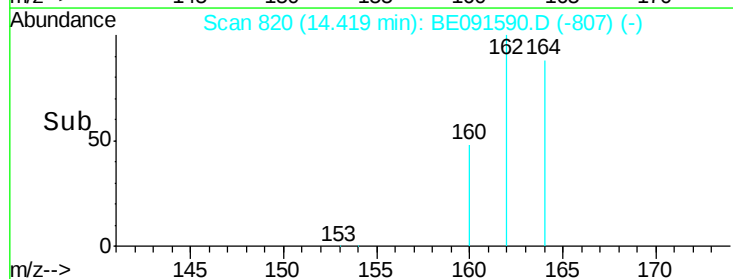
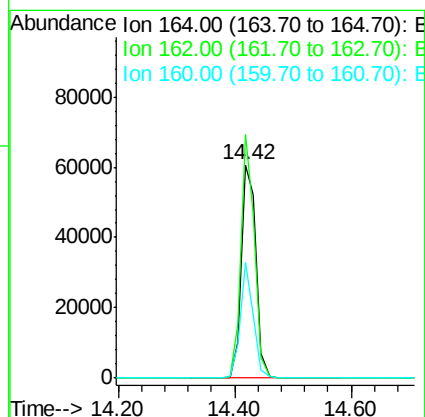
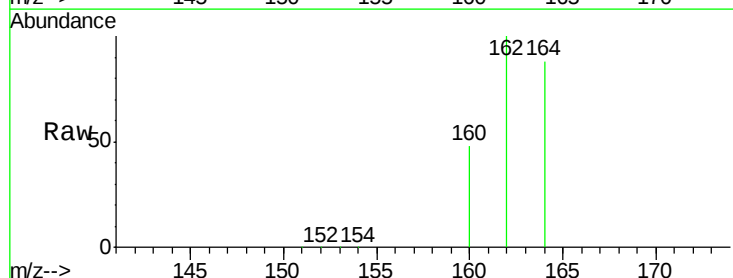
Delta R.T. -0.03 min

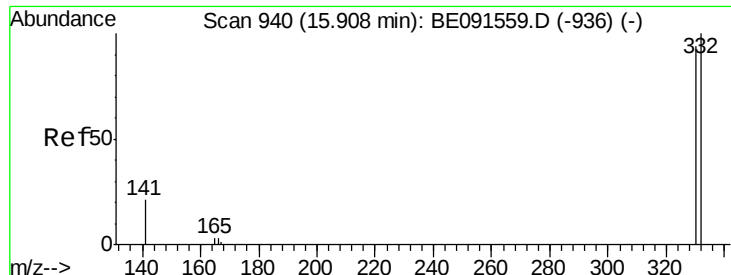
Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Tgt Ion:164 Resp: 106396

Ion	Ratio	Lower	Upper
164	100		
162	114.1	84.4	126.6
160	54.4	37.7	56.5

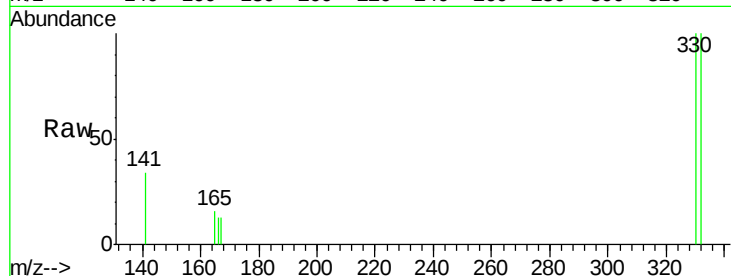




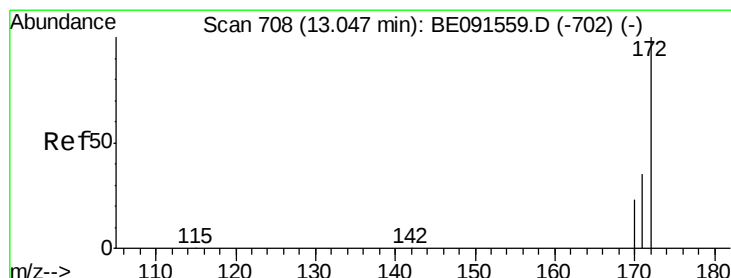
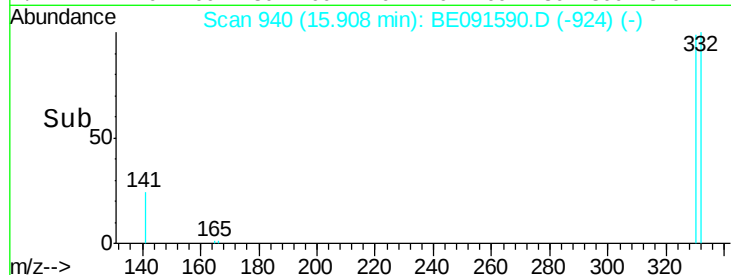
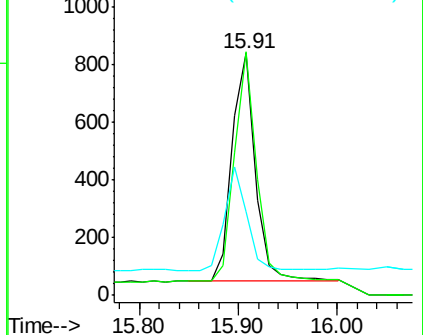
#11
 2,4,6-Tribromophenol
 Concen: 0.28 ng
 RT: 15.91 min Scan# 940
 Delta R.T. -0.01 min
 Lab File: BE091590.D
 Acq: 31 Mar 2016 19:54

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 1299
 Ion Ratio Lower Upper
 330 100
 332 95.5 79.2 118.8
 141 43.0 28.1 42.1#

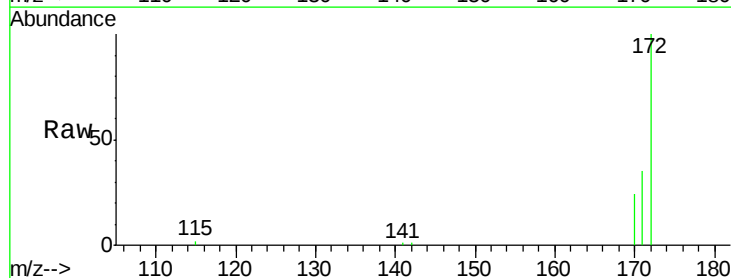


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

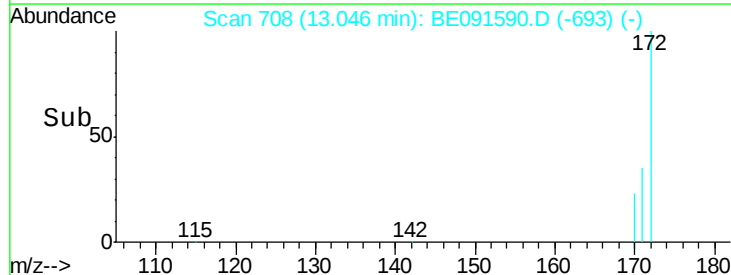
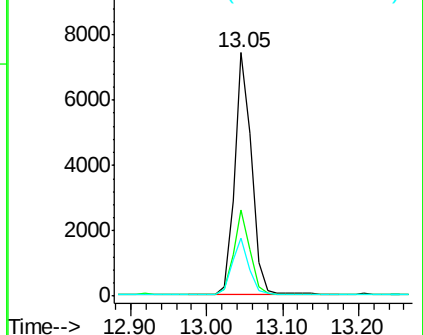


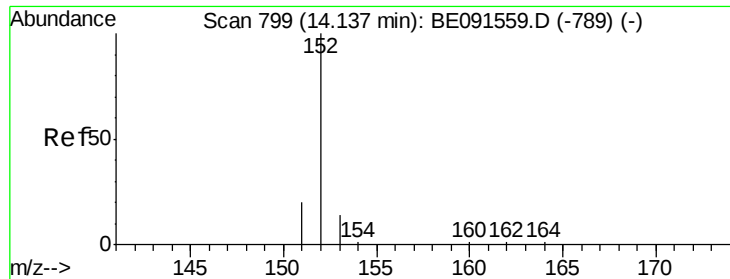
#12
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091590.D
 Acq: 31 Mar 2016 19:54

Tgt Ion:172 Resp: 11671
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.8 44.8
 170 23.9 21.4 32.2



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

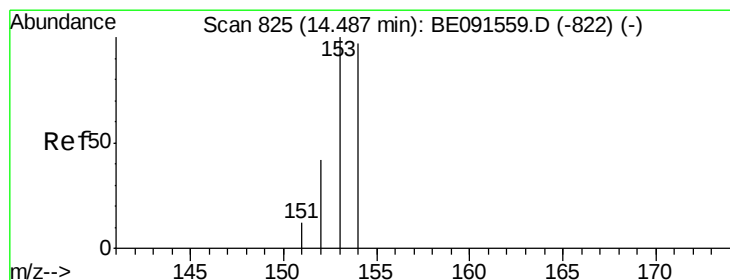
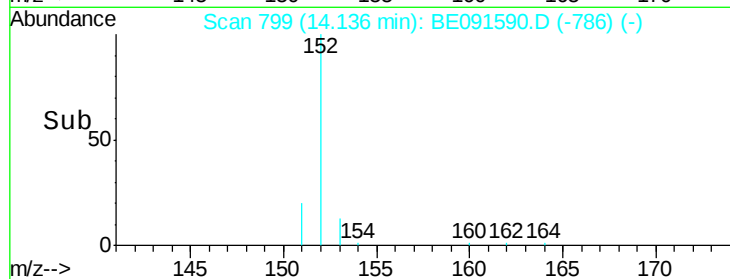
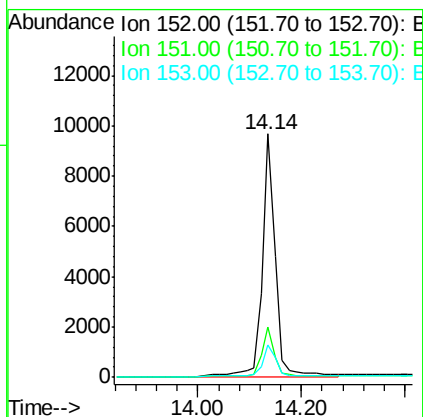
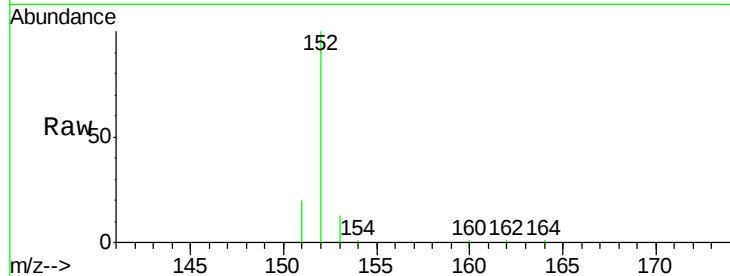




#13
Acenaphthylene
Concen: 0.43 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

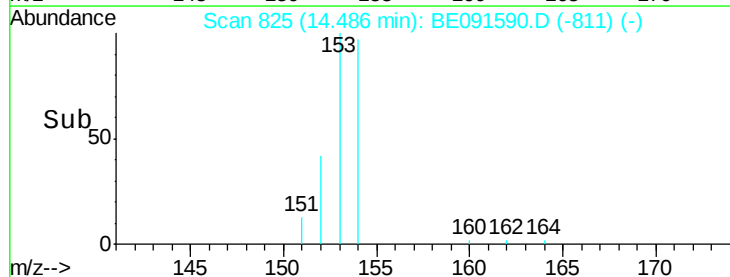
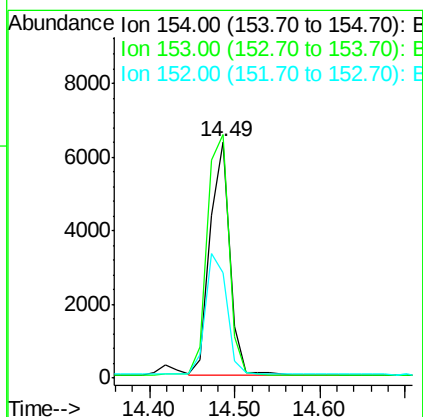
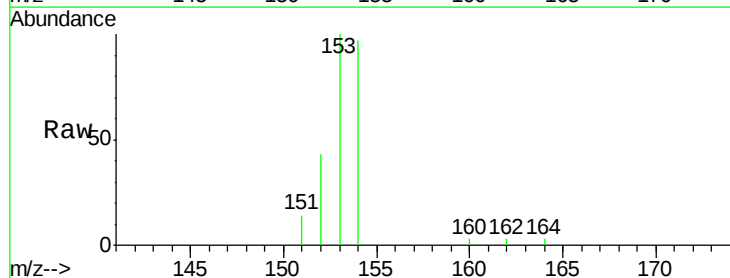
Instrument :
BNA_E
ClientSampleId :

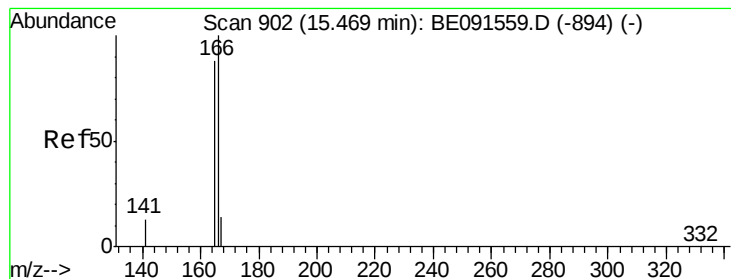
Tot Ion:152 Resp: 18424
Ion Ratio Lower Upper
152 100
151 22.9 16.3 24.5
153 17.7 11.1 16.7#



#14
Acenaphthene
Concen: 0.39 ng
RT: 14.49 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Tgt Ion:154 Resp: 10310
Ion Ratio Lower Upper
154 100
153 113.6 87.3 130.9
152 55.9 42.9 64.3





#15

Fluorene

Concen: 0.39 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampled :

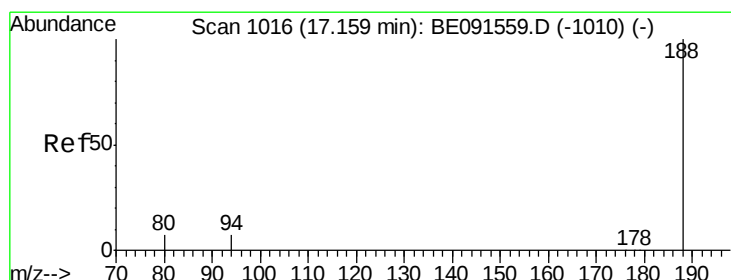
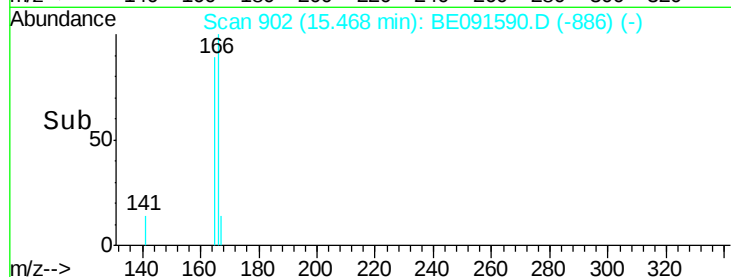
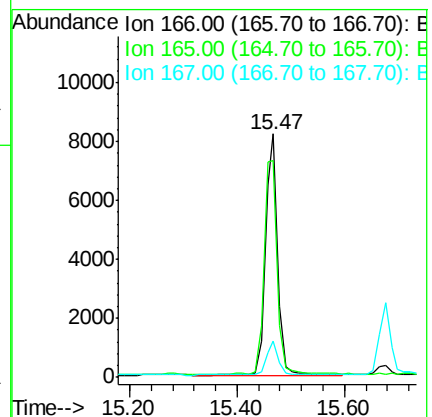
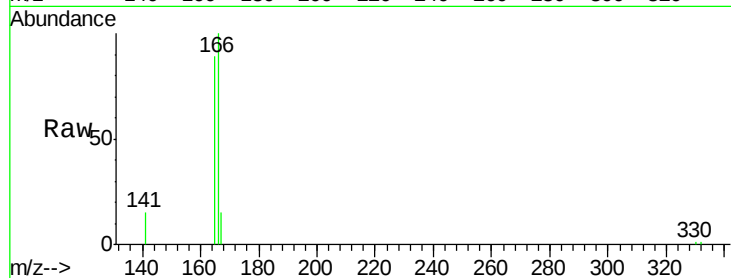
Tot Ion:166 Resp: 13184

Ion Ratio Lower Upper

166 100

165 98.5 79.2 118.8

167 14.1 10.8 16.2



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.16 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

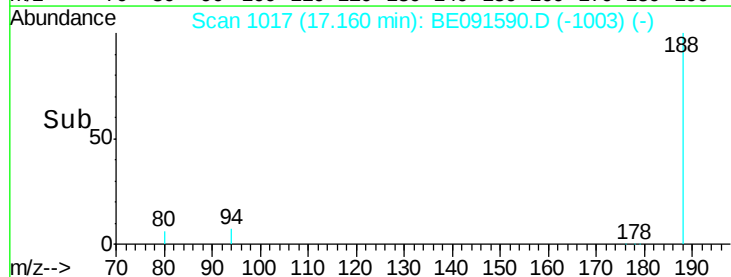
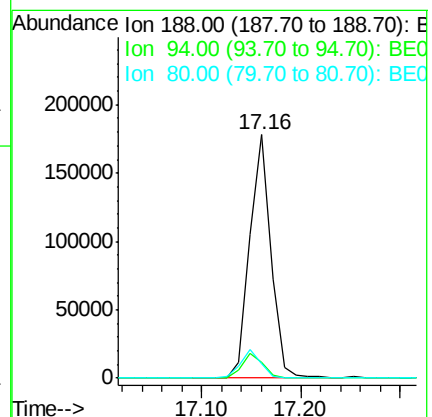
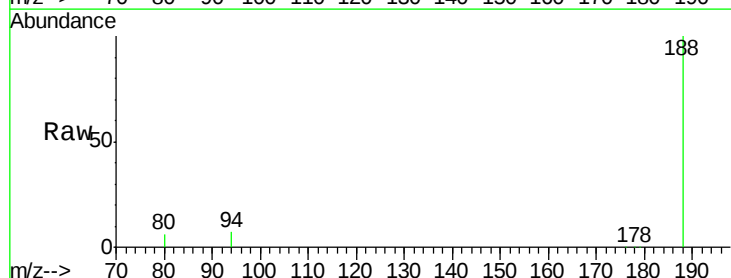
Tgt Ion:188 Resp: 264569

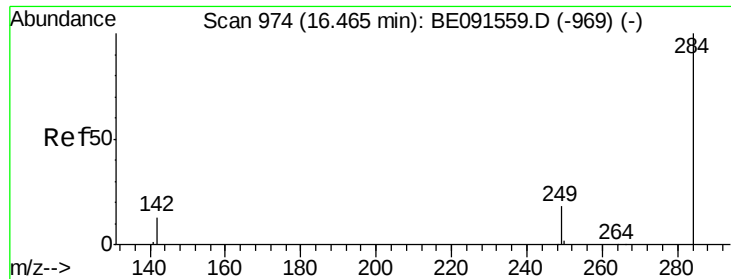
Ion Ratio Lower Upper

188 100

94 6.7 5.4 8.2

80 6.0 5.0 7.4

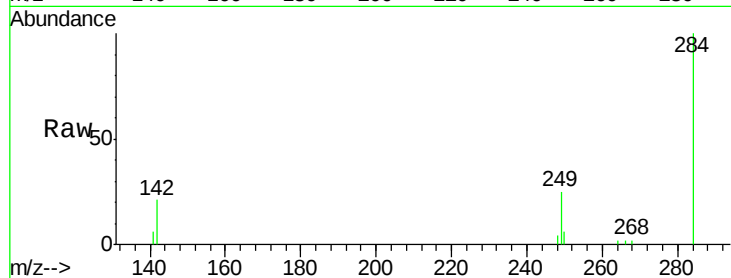




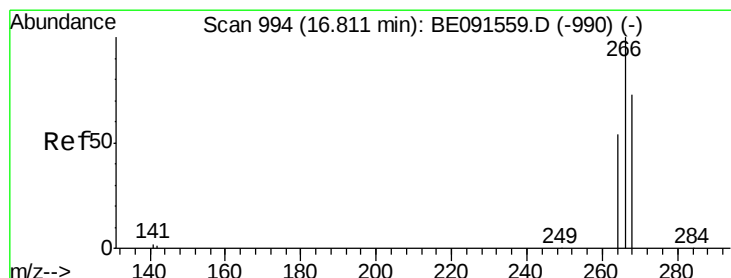
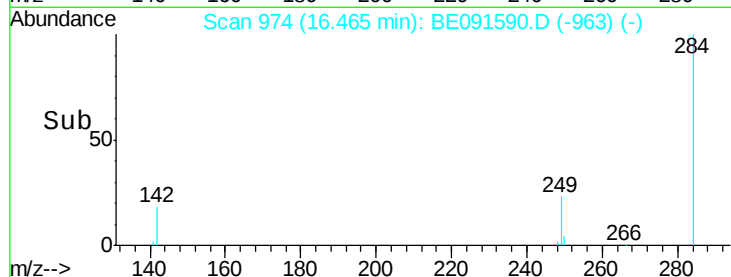
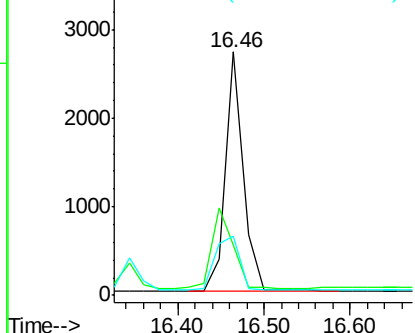
#17
Hexachlorobenzene
Concen: 0.40 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Instrument :
BNA_E
ClientSampleId :

Tot Ion:284 Resp: 3881
Ion Ratio Lower Upper
284 100
142 39.8 31.0 46.4
249 32.0 25.8 38.8

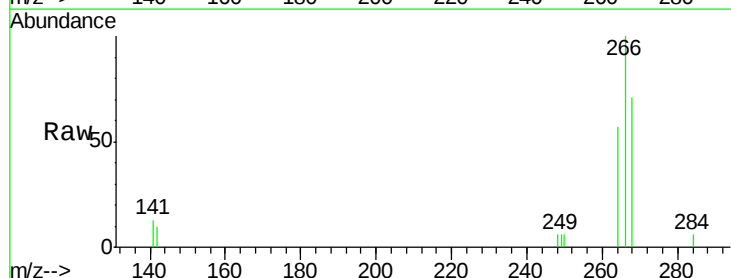


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

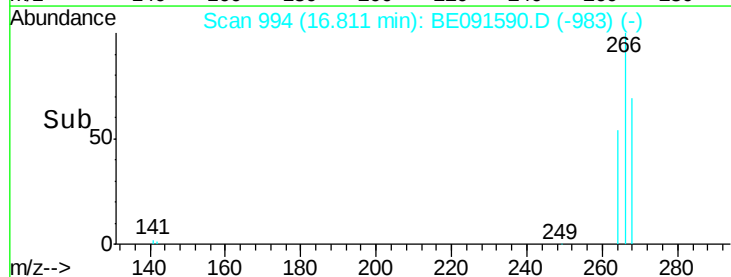
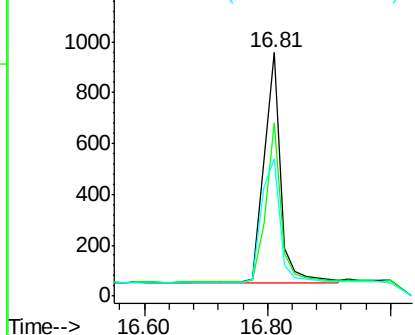


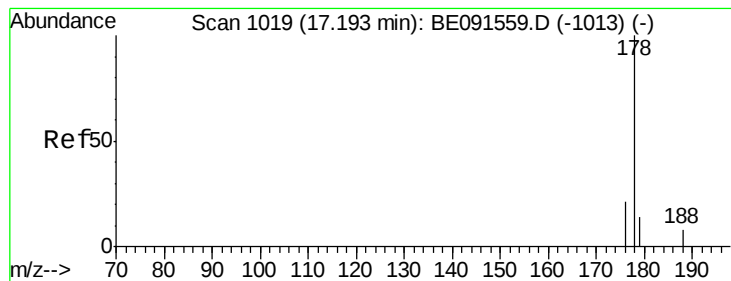
#18
Pentachlorophenol
Concen: 0.31 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Tgt Ion:266 Resp: 1713
Ion Ratio Lower Upper
266 100
268 71.2 48.2 72.2
264 56.5 52.1 78.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 0.39 ng

RT: 17.20 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :

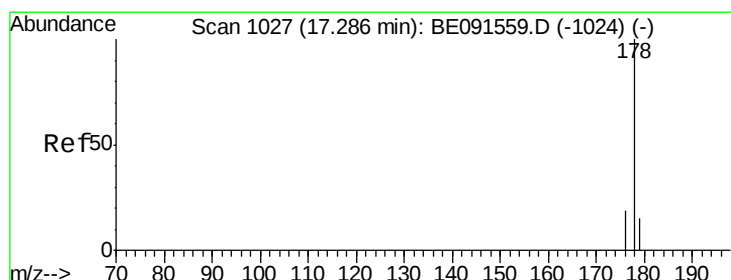
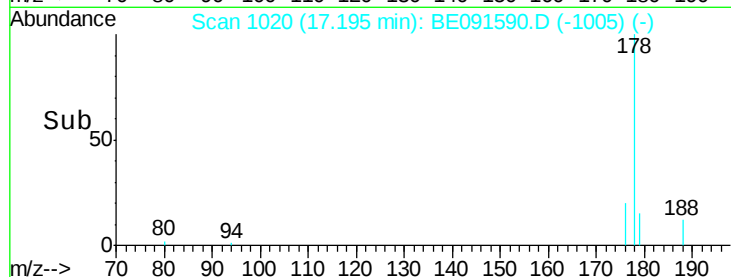
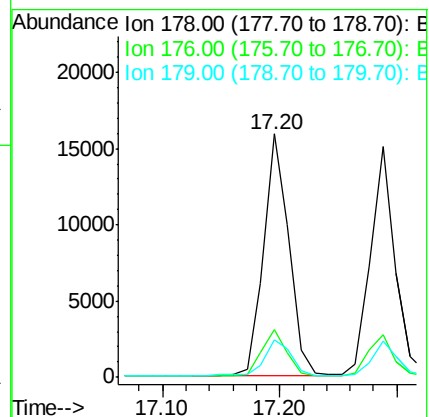
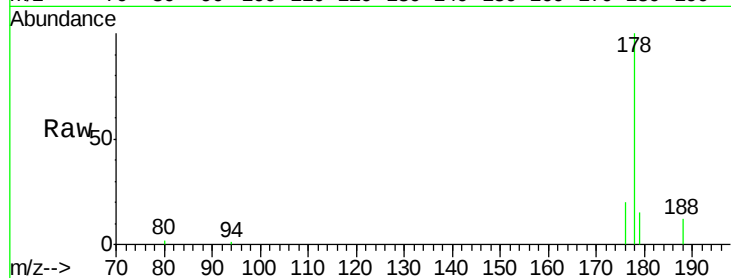
Tot Ion:178 Resp: 24062

Ion Ratio Lower Upper

178 100

176 18.9 15.5 23.3

179 16.2 13.1 19.7



#20

Anthracene

Concen: 0.39 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

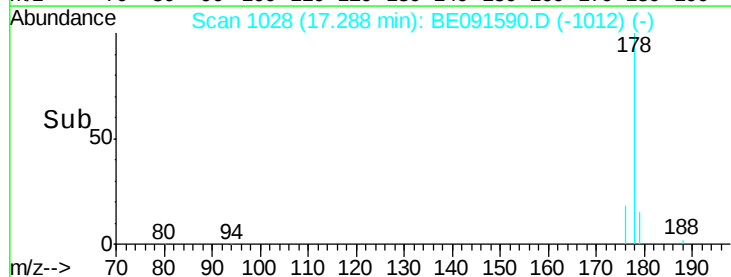
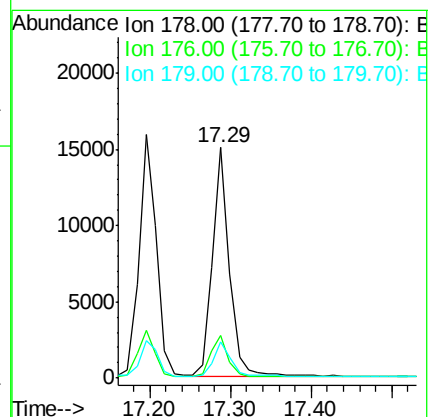
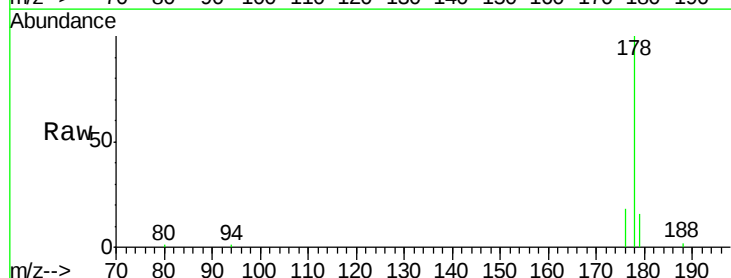
Tgt Ion:178 Resp: 22205

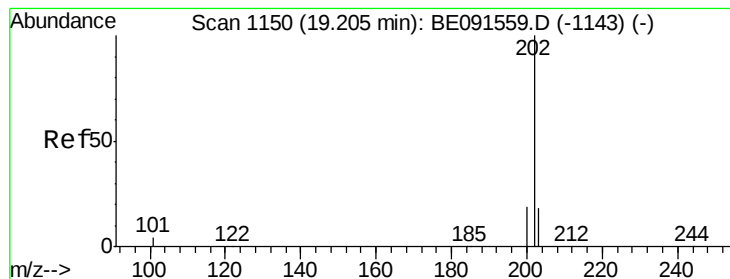
Ion Ratio Lower Upper

178 100

176 18.5 14.9 22.3

179 15.5 12.2 18.4





#21

Fluoranthene

Concen: 0.39 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampled :

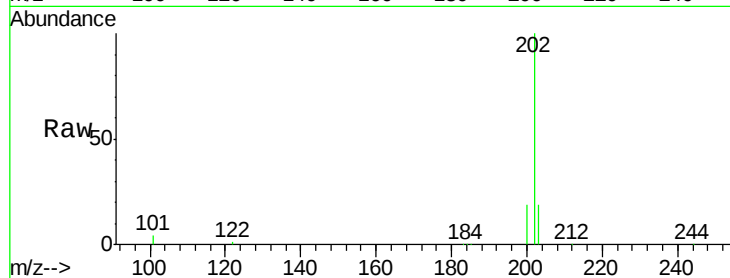
Tot Ion:202 Resp: 28344

Ion Ratio Lower Upper

202 100

101 11.1 8.3 12.5

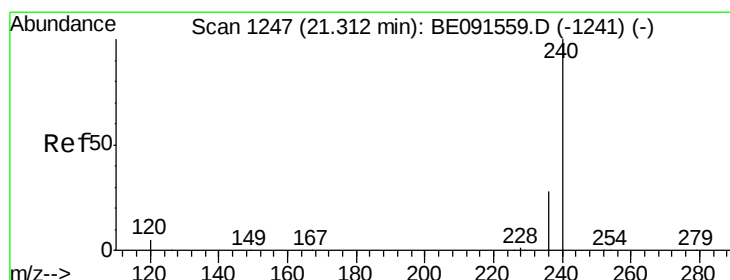
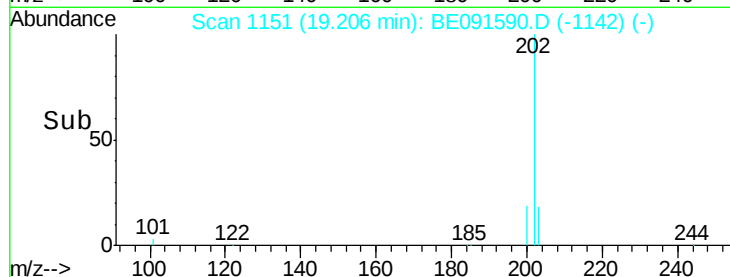
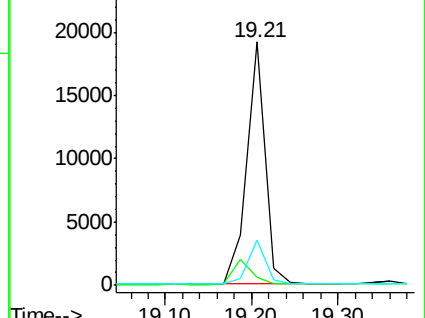
203 17.4 13.9 20.9



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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

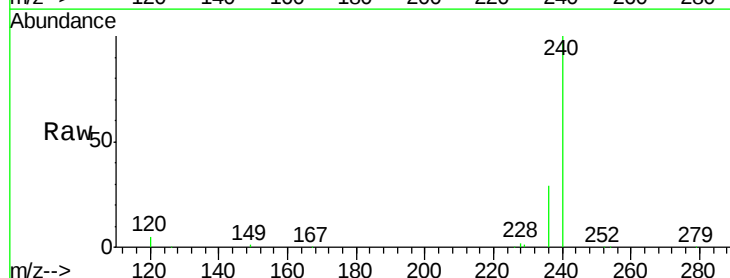
Tgt Ion:240 Resp: 346263

Ion Ratio Lower Upper

240 100

120 5.0 4.0 6.0

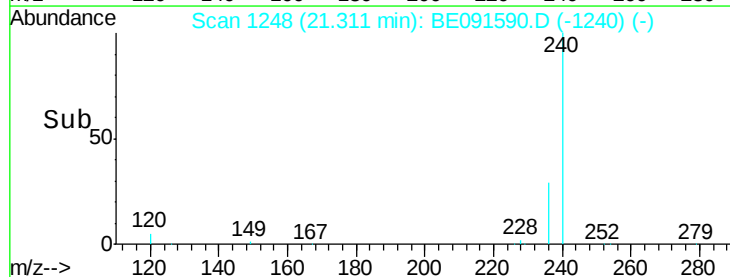
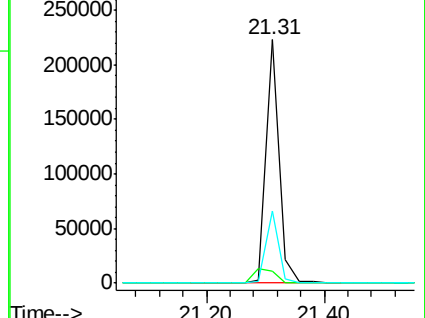
236 29.4 23.0 34.4

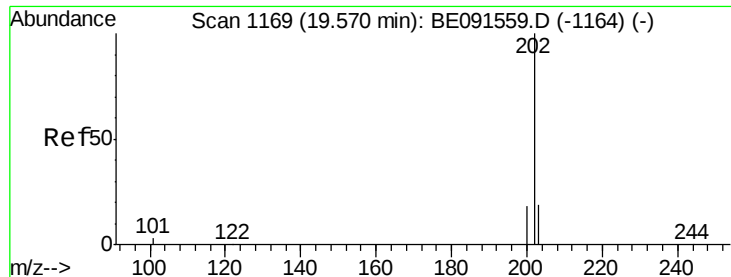


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

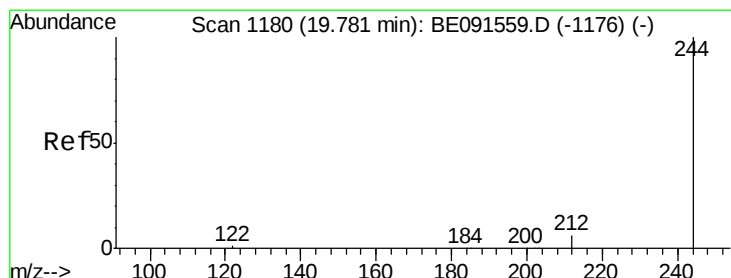
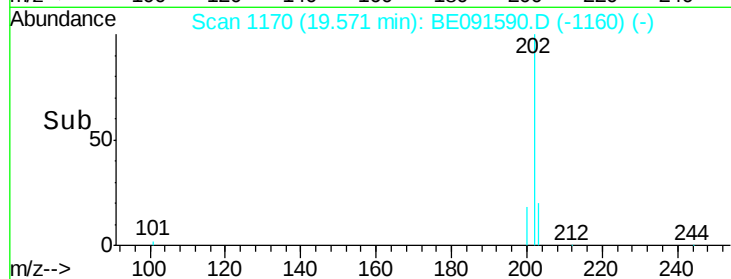
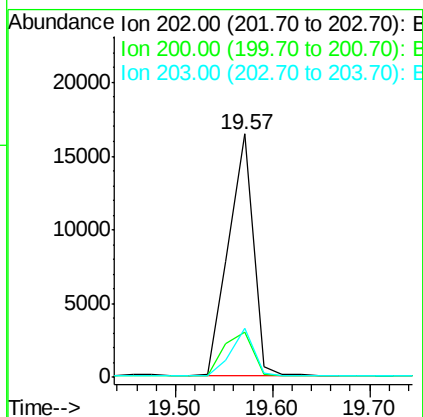
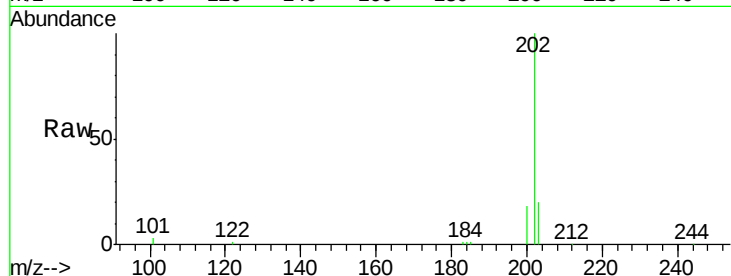




#23
Pvrene
Concen: 0.41 ng
RT: 19.57 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

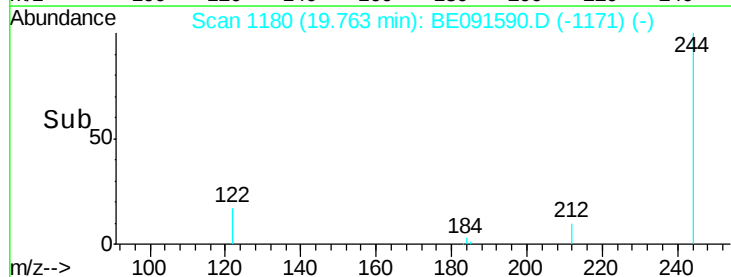
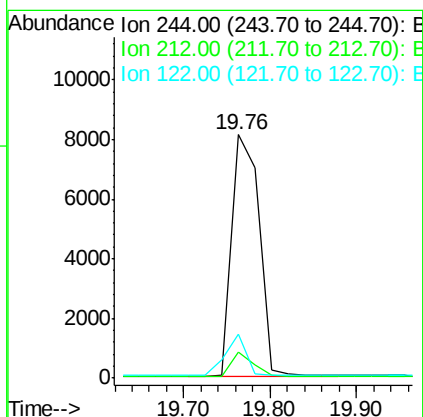
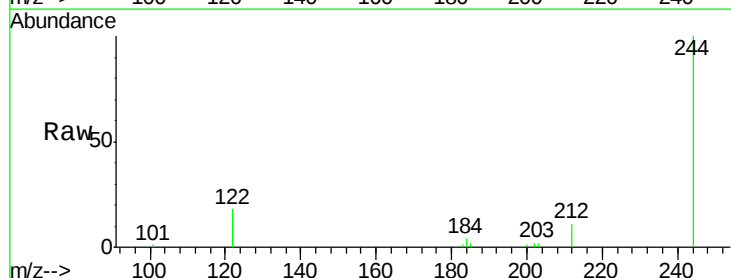
Instrument :
BNA_E
ClientSampleId :

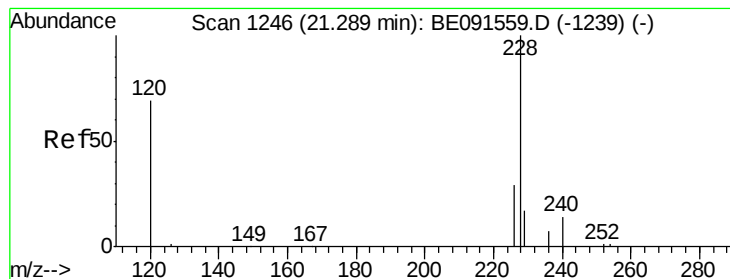
Tot Ion:202 Resp: 28875
Ion Ratio Lower Upper
202 100
200 21.2 16.4 24.6
203 18.1 14.6 21.8



#24
Terphenyl-d14
Concen: 0.41 ng
RT: 19.76 min Scan# 1180
Delta R.T. -0.02 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Tgt Ion:244 Resp: 17897
Ion Ratio Lower Upper
244 100
212 10.6 5.8 8.8#
122 18.3 1.8 2.8#





#25

Benzo(a)anthracene

Concen: 0.75 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :

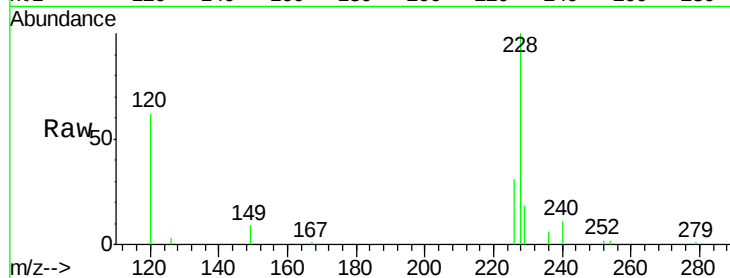
Tot Ion:228 Resp: 61356

Ion Ratio Lower Upper

228 100

226 30.8 24.0 36.0

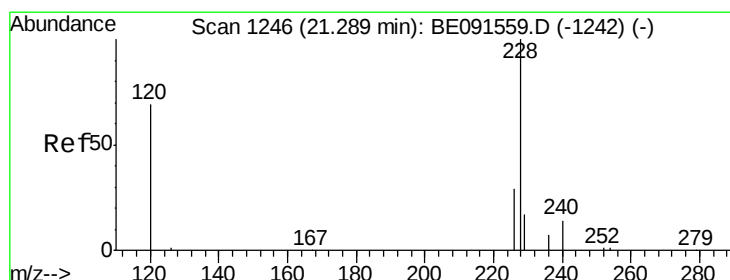
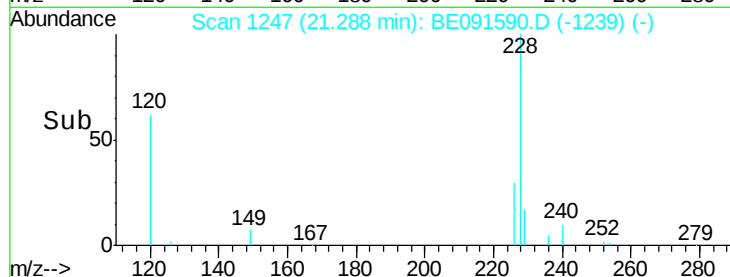
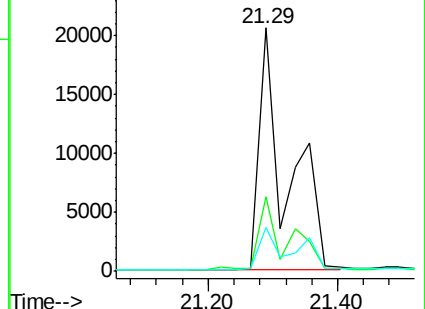
229 17.8 13.8 20.6



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



#26

Chrysene

Concen: 0.89 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.07 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

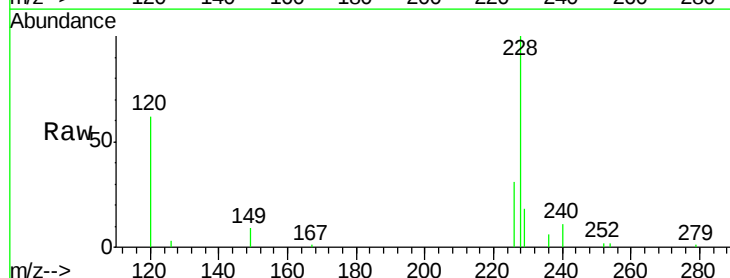
Tgt Ion:228 Resp: 61840

Ion Ratio Lower Upper

228 100

226 30.8 18.9 28.3#

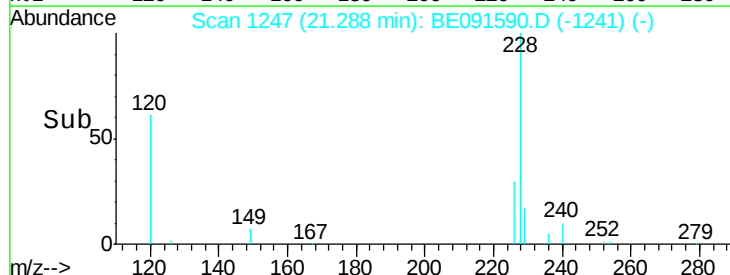
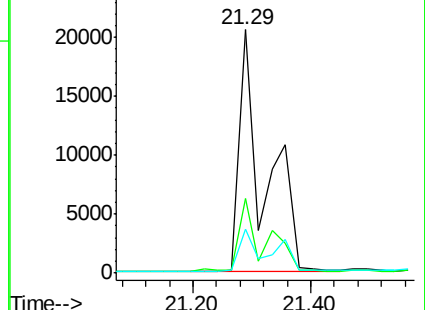
229 17.8 19.1 28.7#

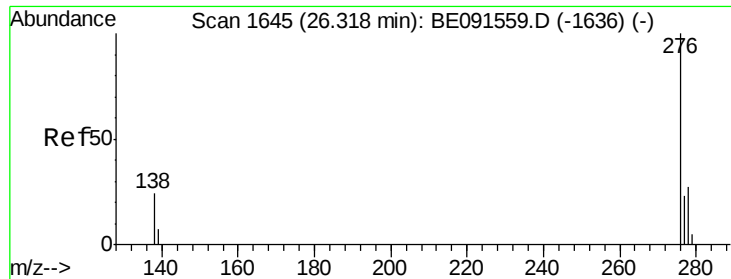


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

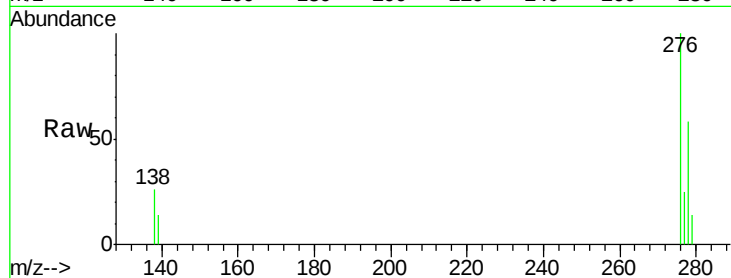




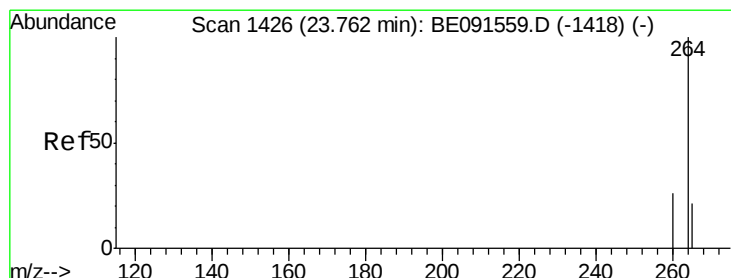
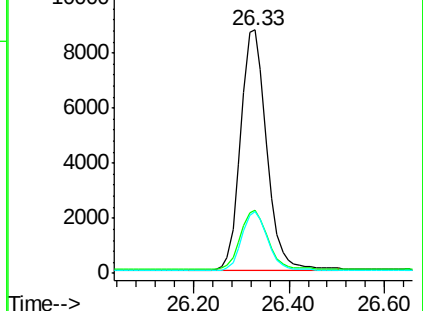
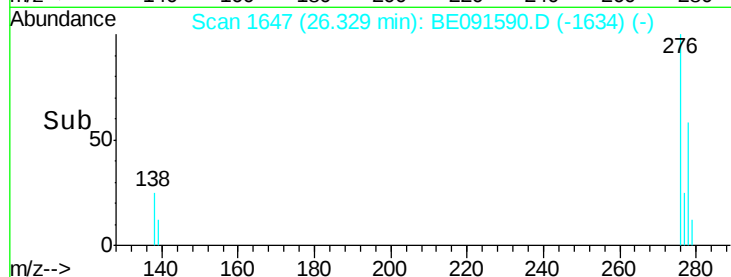
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.41 ng
RT: 26.33 min Scan# 1647
Delta R.T. -0.05 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 33130
Ion Ratio Lower Upper
276 100
138 25.3 20.2 30.4
277 24.4 19.8 29.8

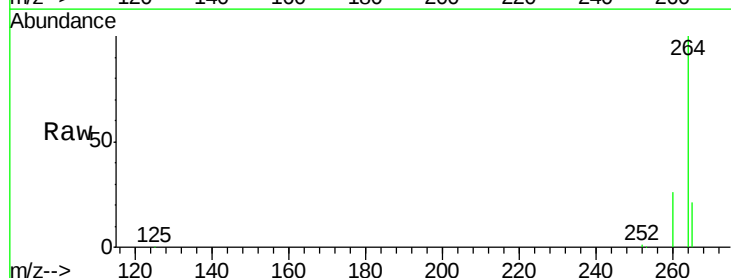


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

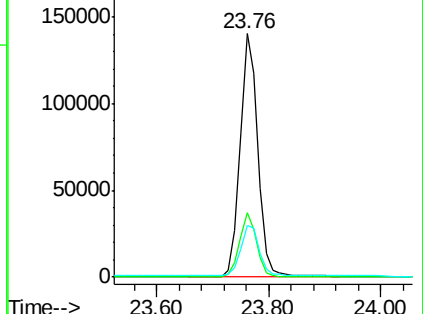
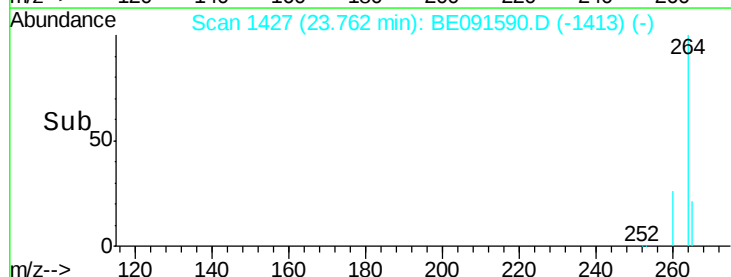


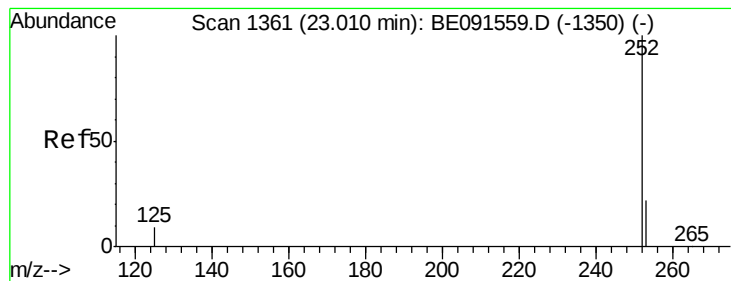
#28
Perylene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091590.D
Acq: 31 Mar 2016 19:54

Tgt Ion:264 Resp: 312074
Ion Ratio Lower Upper
264 100
260 26.2 20.1 30.1
265 21.4 18.3 27.5



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





#29

Benzo(b)fluoranthene

Concen: 0.41 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :

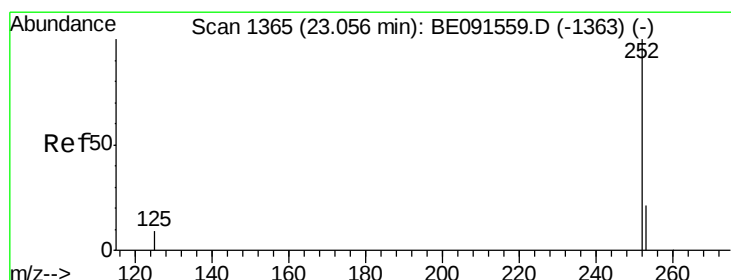
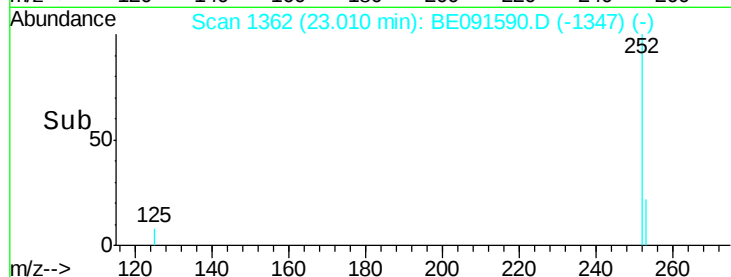
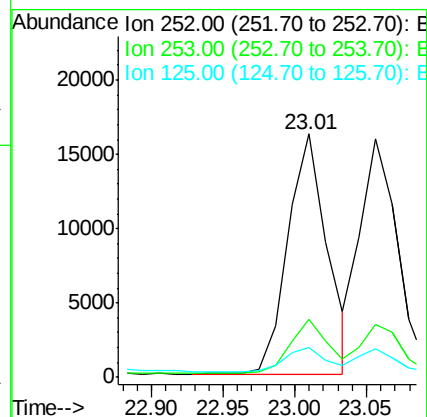
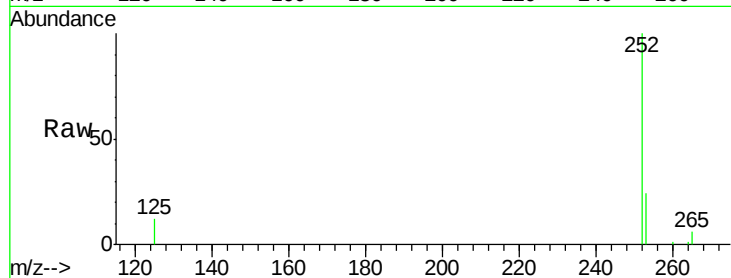
Tot Ion:252 Resp: 30703

Ion Ratio Lower Upper

252 100

253 23.7 18.7 28.1

125 12.2 9.8 14.6



#30

Benzo(k)fluoranthene

Concen: 0.39 ng

RT: 23.06 min Scan# 1366

Delta R.T. -0.02 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

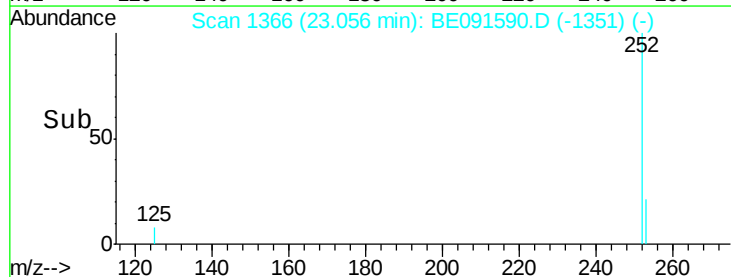
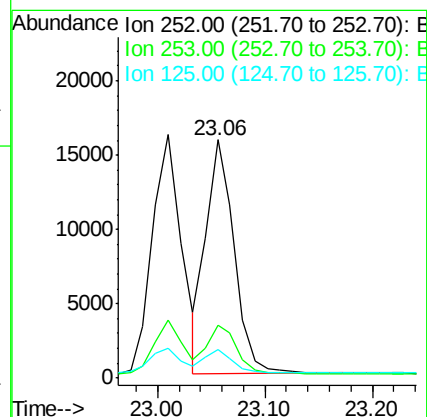
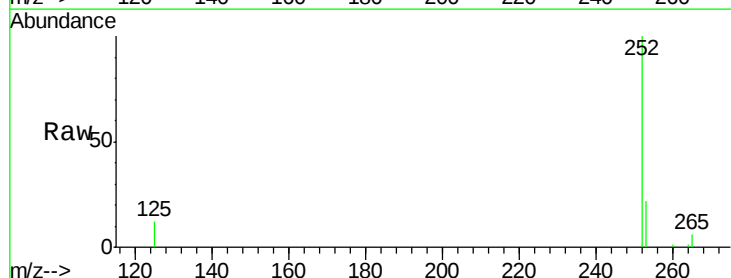
Tgt Ion:252 Resp: 28687

Ion Ratio Lower Upper

252 100

253 22.3 20.2 30.4

125 11.9 9.4 14.2





#31

Benzo(a)pyrene

Concen: 0.42 ng

RT: 23.65 min Scan# 1417

Delta R.T. -0.03 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :

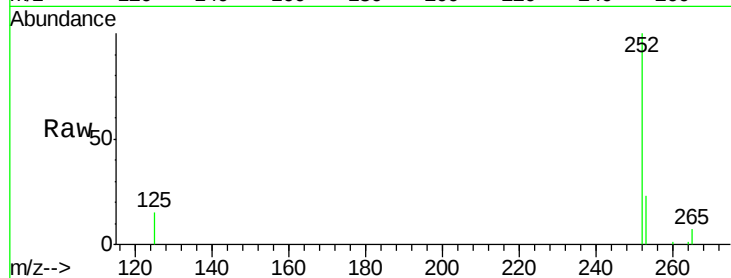
Tot Ion:252 Resp: 28872

Ion Ratio Lower Upper

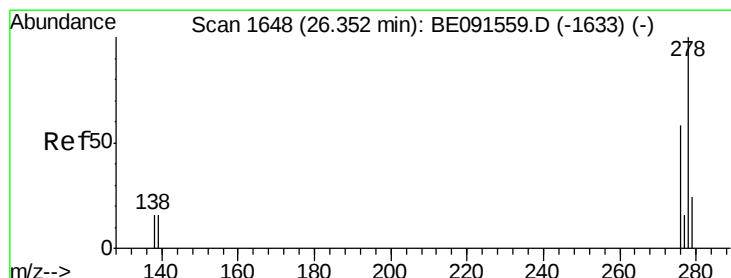
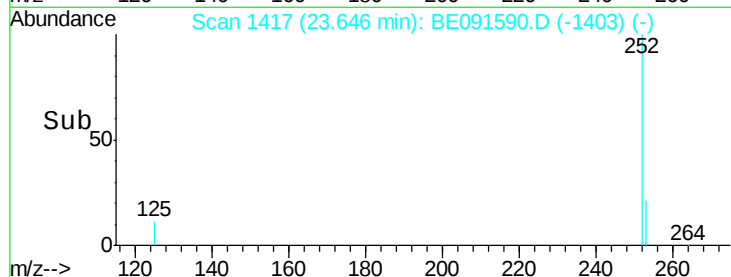
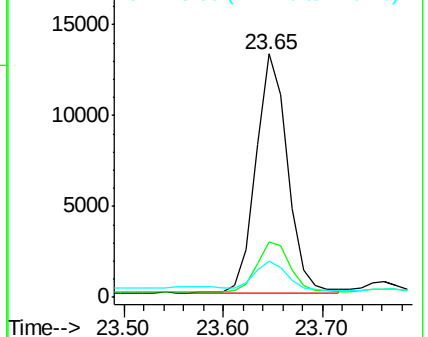
252 100

253 22.8 19.4 29.0

125 14.8 11.4 17.2



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



#32

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 26.35 min Scan# 1649

Delta R.T. -0.05 min

Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

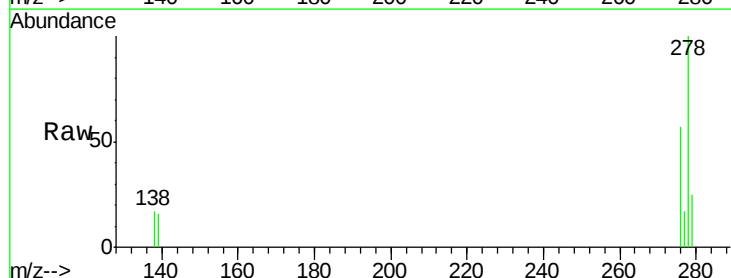
Tgt Ion:278 Resp: 27262

Ion Ratio Lower Upper

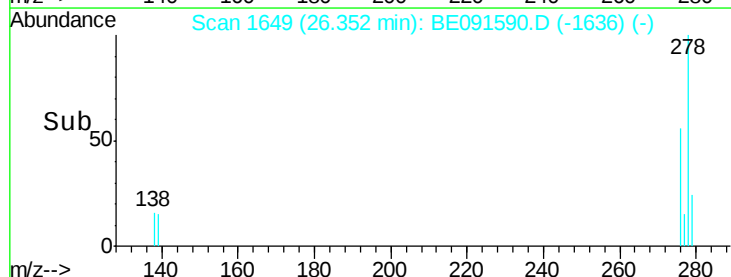
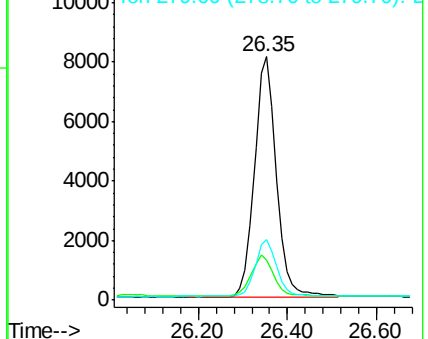
278 100

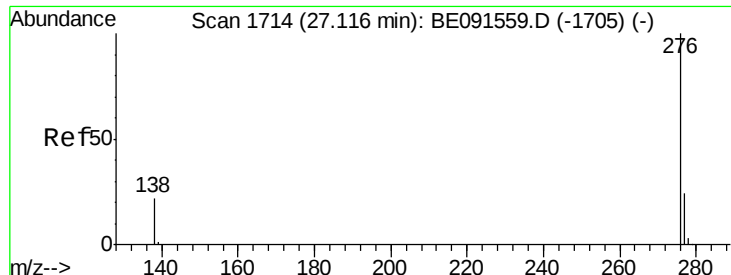
139 16.4 14.2 21.4

279 24.9 19.6 29.4



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





#33

Benzo(a,h,i)perylene

Concen: 0.40 ng

RT: 27.12 min Scan# 1715

Delta R.T. -0.05 min

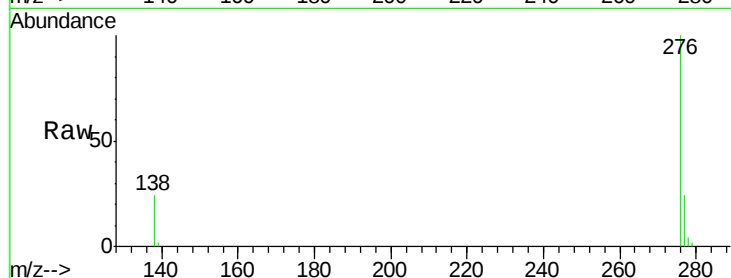
Lab File: BE091590.D

Acq: 31 Mar 2016 19:54

Instrument :

BNA_E

ClientSampleId :



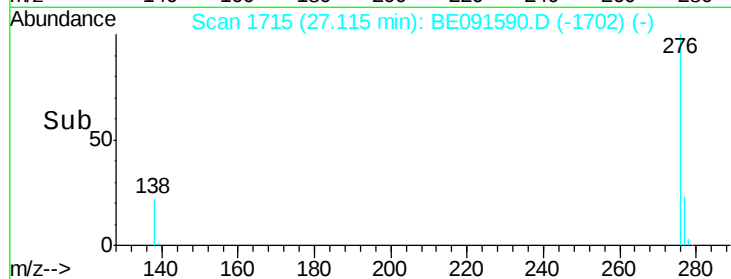
Tot Ion: 276 Resp: 27777

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.2

138 23.6 18.2 27.4



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

