

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097480.D
 Acq On : 18 Mar 2016 00:07
 Operator : UM/SJ
 Sample : MDL-03-W
 Misc : 0.08PPM
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 18 04:55:46 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 04:36:48 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	40803	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	176509	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	102995	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	253256	5.00	ng	0.00
22) Chrysene-d12	21.34	240	311900	5.00	ng	0.00
28) Perylene-d12	23.80	264	303076	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	75084	8.01	ng	0.00
5) Phenol-d6	6.99	99	94875	7.75	ng	0.00
7) Nitrobenzene-d5	8.98	82	32237	3.41	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	19618	5.25	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	111900	4.32	ng	0.00
24) Terphenyl-d14	19.79	244	192615	5.13	ng	-0.01

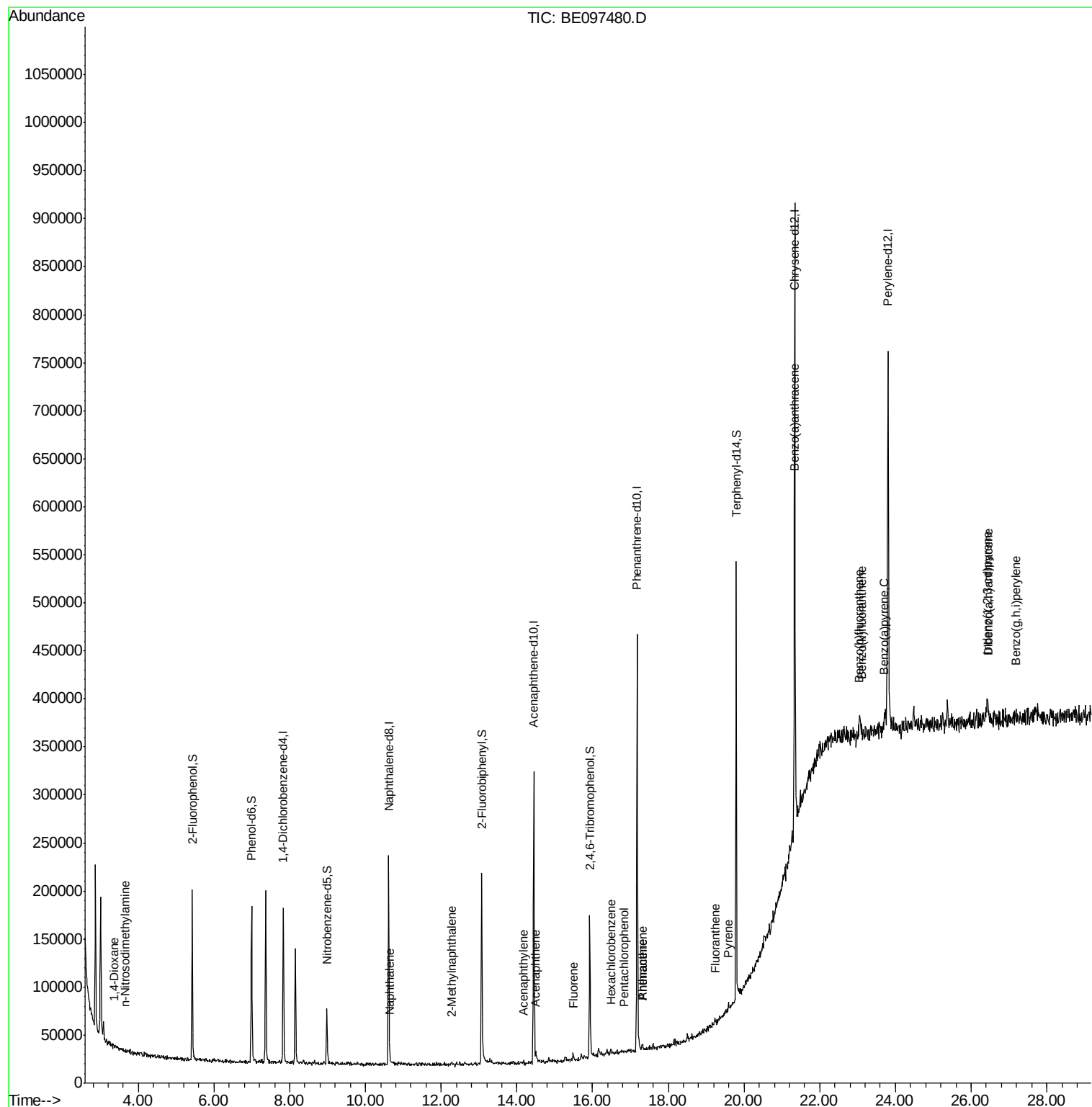
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	720	0.14	ng	# 56
3) n-Nitrosodimethylamine	3.66	42	92	0.01	ng	# 1
8) Naphthalene	10.66	128	2571	0.06	ng	# 89
9) 2-Methylnaphthalene	12.28	142	1441	0.05	ng	# 85
13) Acenaphthylene	14.17	152	1723	0.17	ng	# 72
14) Acenaphthene	14.50	154	1747	0.06	ng	88
15) Fluorene	15.50	166	1857	0.05	ng	# 12
17) Hexachlorobenzene	16.48	284	819	0.07	ng	# 71
18) Pentachlorophenol	16.83	266	183	0.33	ng	# 75
19) Phenanthrene	17.32	178	3375	0.05	ng	97
20) Anthracene	17.32	178	3375	0.05	ng	96
21) Fluoranthene	19.23	202	3883	0.05	ng	98
23) Pyrene	19.59	202	4285	0.06	ng	# 89
25) Benzo(a)anthracene	21.32	228	5603	0.07	ng	# 87
26) Chrysene	21.38	228	5685	Below Cal		95
27) Indeno(1,2,3-cd)pyrene	26.42	276	1913	0.02	ng	# 60
29) Benzo(b)fluoranthene	23.05	252	6208	0.06	ng	# 75
30) Benzo(k)fluoranthene	23.10	252	5626	0.06	ng	# 68
31) Benzo(a)pyrene	23.70	252	3797	0.04	ng	# 90
32) Dibenzo(a,h)anthracene	26.44	278	421	0.01	ng	96
33) Benzo(g,h,i)perylene	27.17	276	1243	0.01	ng	# 67

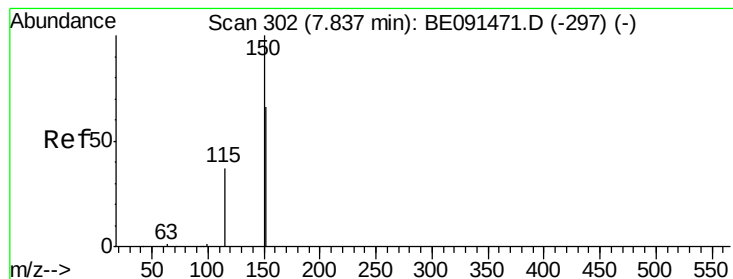
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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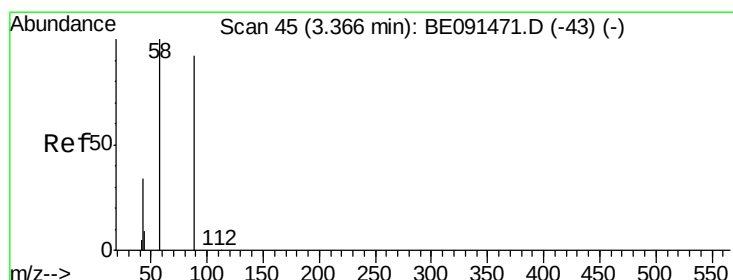
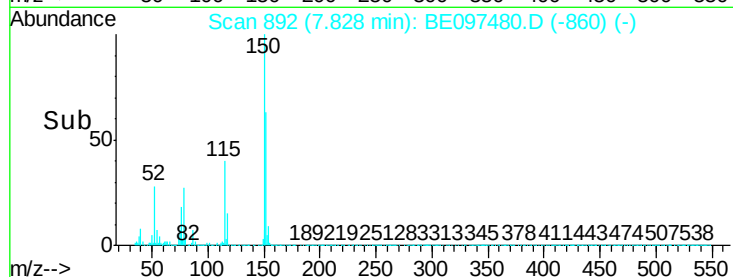
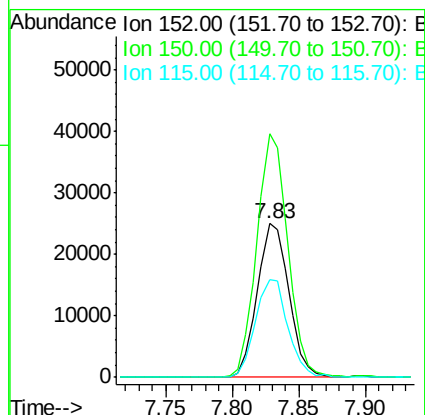
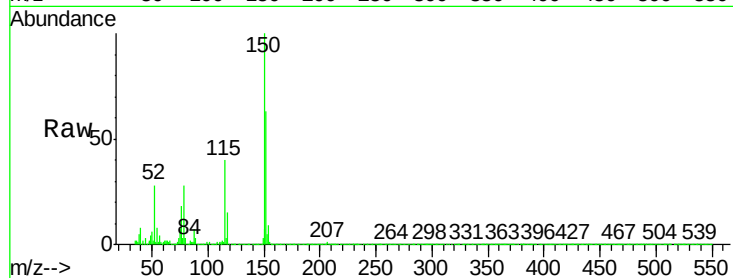


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.83 min Scan# 892
Delta R.T. -0.01 min
Lab File: BE097480.D
Acq: 18 Mar 2016 00:07

Instrument :
BNA_E
ClientSampled :

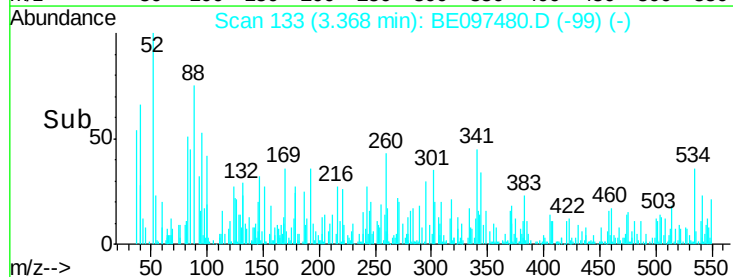
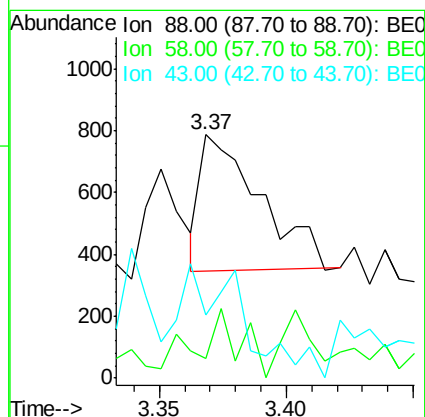
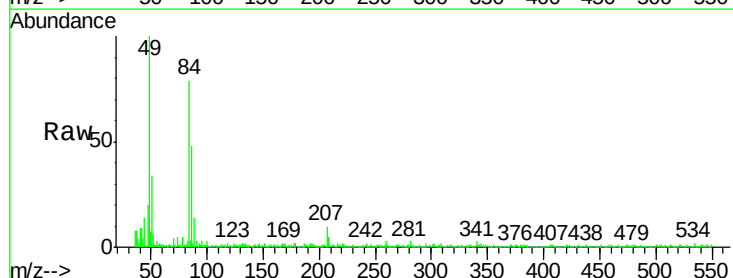
Tgt Ion:152 Resp: 40803
Ion Ratio Lower Upper
152 100
150 158.5 122.2 183.2
115 63.7 45.9 68.9

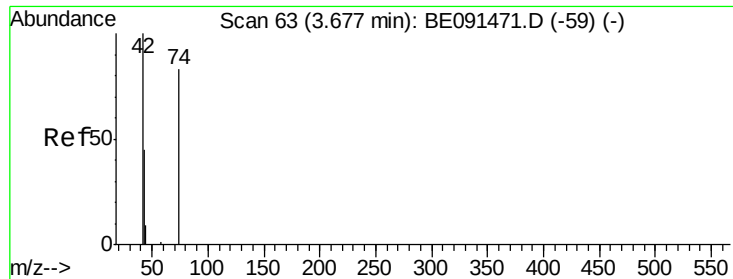


#2

1,4-Dioxane
Concen: 0.14 ng
RT: 3.37 min Scan# 133
Delta R.T. 0.00 min
Lab File: BE097480.D
Acq: 18 Mar 2016 00:07

Tgt Ion: 88 Resp: 720
Ion Ratio Lower Upper
88 100
58 36.8 61.0 91.6#
43 53.6 25.4 38.2#



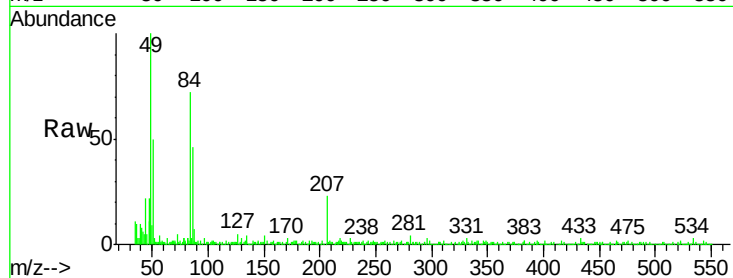


#3

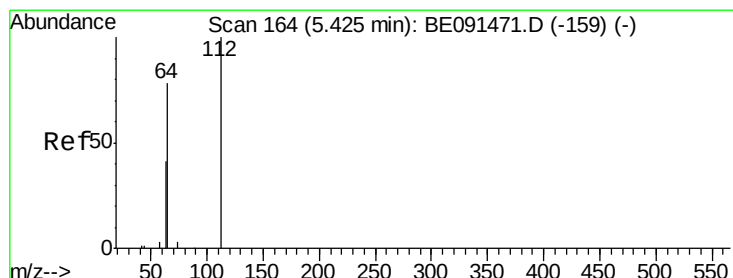
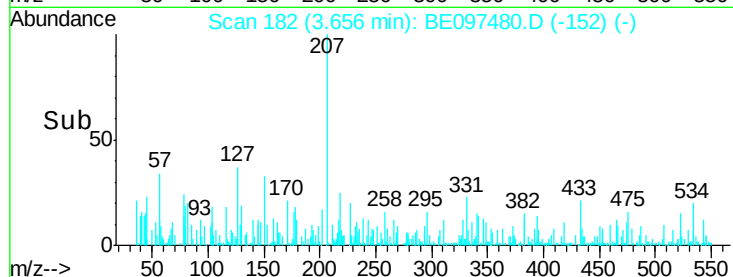
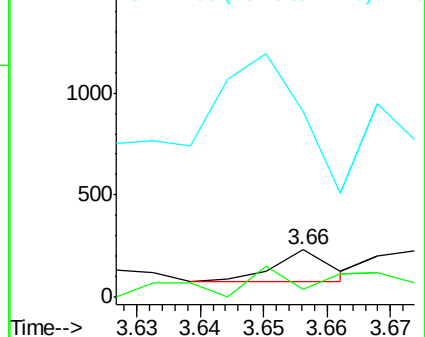
n-Nitrosodimethylamine
 Concen: 0.01 ng
 RT: 3.66 min Scan# 182
 Delta R.T. -0.02 min
 Lab File: BE097480.D
 Acq: 18 Mar 2016 00:07

Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 42 Resp: 92
 Ion Ratio Lower Upper
 42 100
 74 197.8 84.3 126.5#
 44 623.9 6.7 10.1#



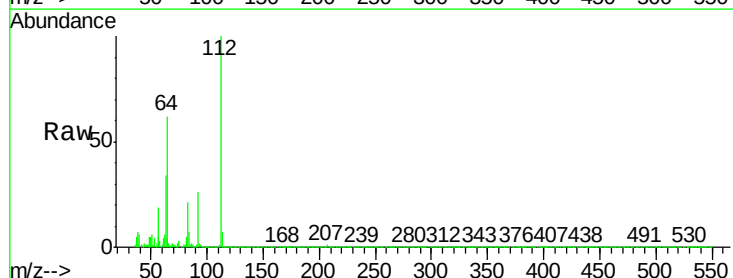
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



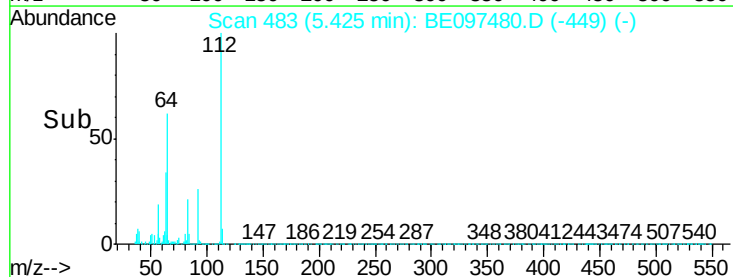
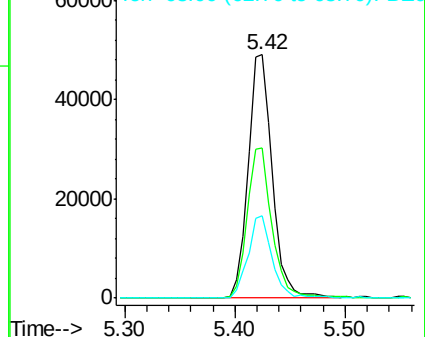
#4

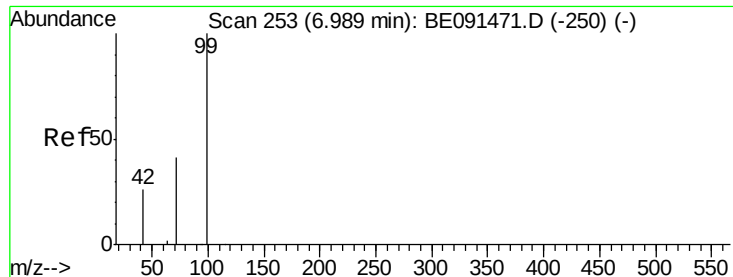
2-Fluorophenol
 Concen: 8.01 ng
 RT: 5.42 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: BE097480.D
 Acq: 18 Mar 2016 00:07

Tgt Ion: 112 Resp: 75084
 Ion Ratio Lower Upper
 112 100
 64 63.7 53.3 79.9
 63 33.9 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





#5

Phenol-d6

Concen: 7.75 ng

RT: 6.99 min Scan# 750

Delta R.T. 0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :

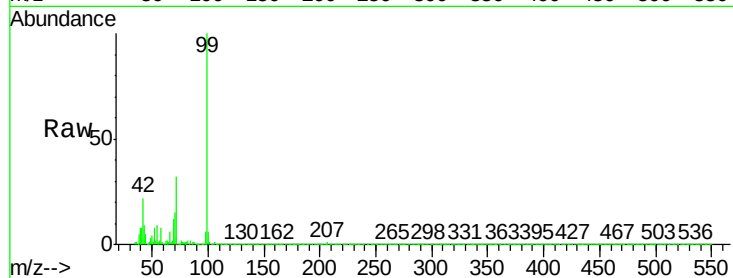
Tgt Ion: 99 Resp: 94875

Ion Ratio Lower Upper

99 100

42 21.9 20.6 30.8

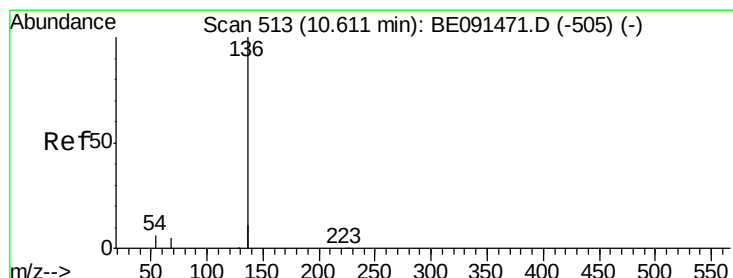
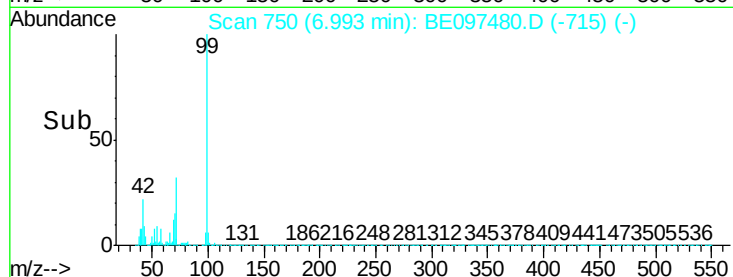
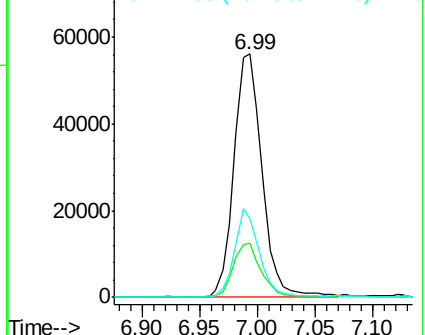
71 31.7 29.0 43.4



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



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Tgt Ion: 136 Resp: 176509

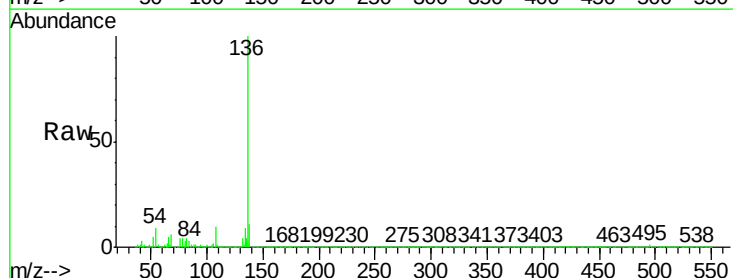
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 9.4 5.2 7.8#

68 6.0 4.1 6.1

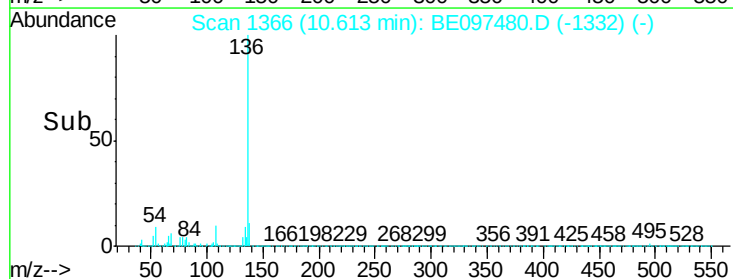
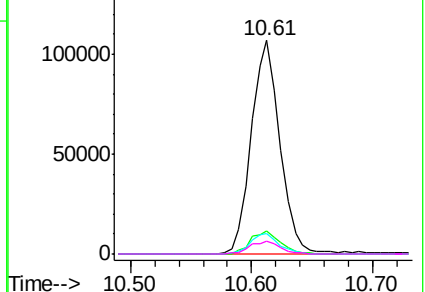


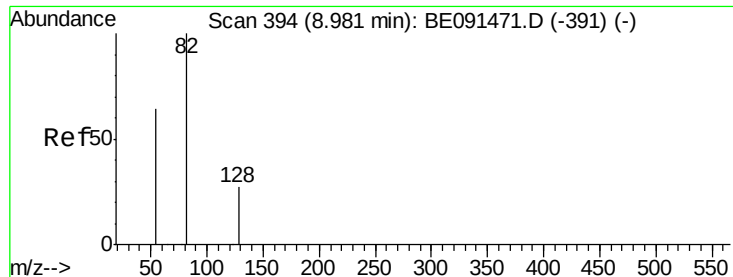
Abundance Ion 136.00 (135.70 to 136.70): E

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





#7

Nitrobenzene-d5

Concen: 3.41 ng

RT: 8.98 min Scan# 1088

Delta R.T. -0.00 min

Lab File: BE097480.D

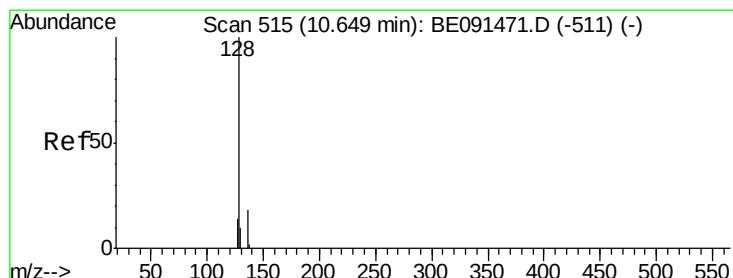
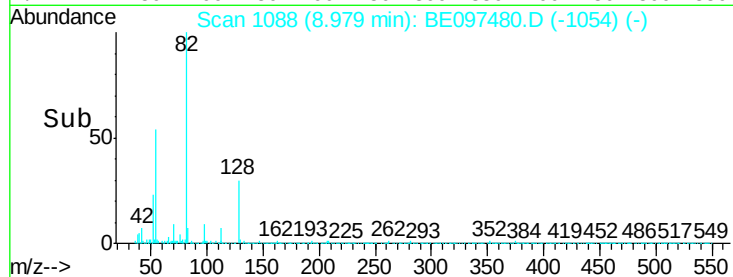
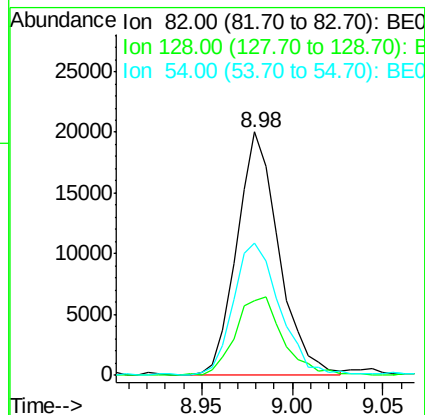
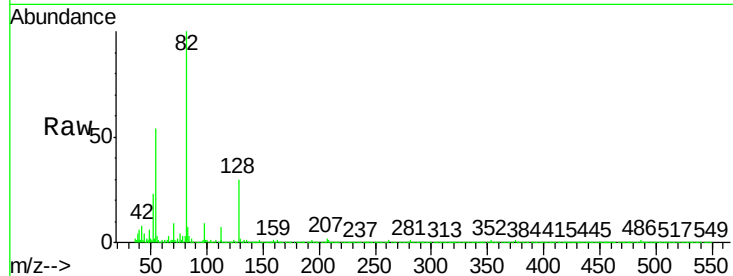
Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampled :

Tgt Ion:	82	Resp:	32237
Ion Ratio	Lower	Upper	
82	100		
128	30.5	23.5	35.3
54	54.2	52.4	78.6



#8

Naphthalene

Concen: 0.06 ng

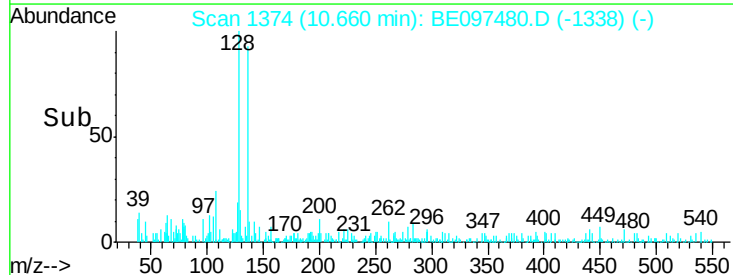
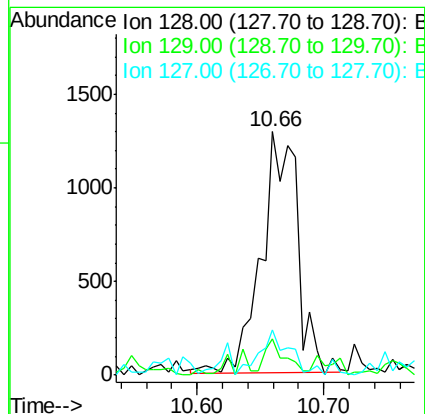
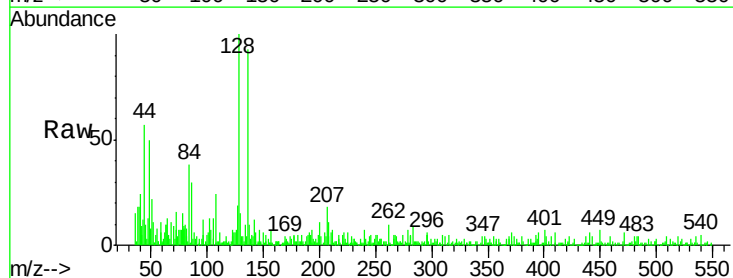
RT: 10.66 min Scan# 1374

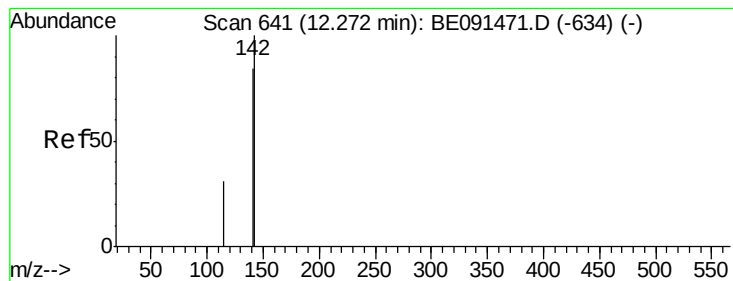
Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Tgt Ion:	128	Resp:	2571
Ion Ratio	Lower	Upper	
128	100		
129	14.8	8.2	12.2#
127	18.8	11.8	17.8#





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.28 min Scan# 1650

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :

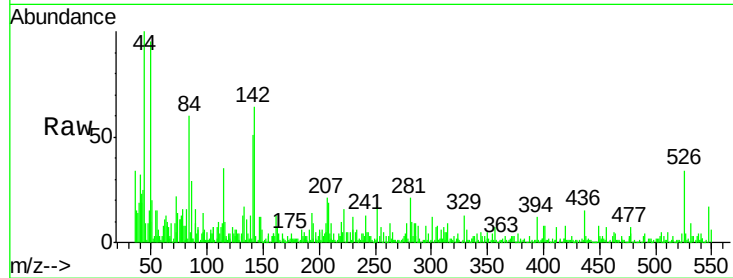
Tgt Ion:142 Resp: 1441

Ion Ratio Lower Upper

142 100

141 79.6 66.9 100.3

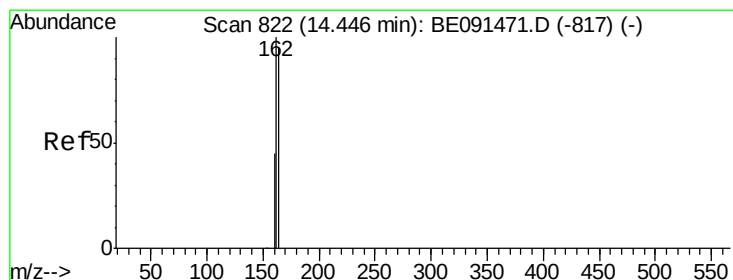
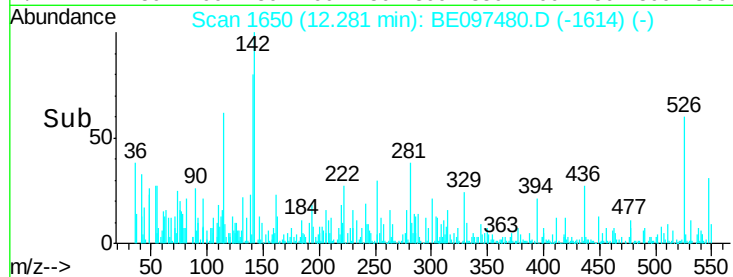
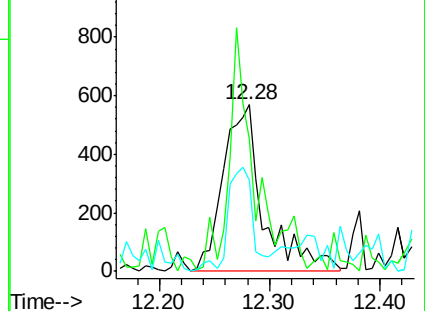
115 54.6 25.1 37.7#



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.44 min Scan# 2018

Delta R.T. -0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

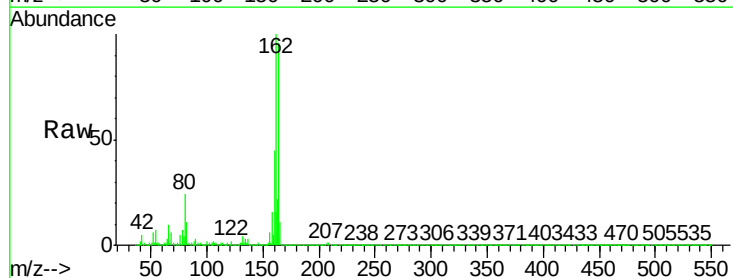
Tgt Ion:164 Resp: 102995

Ion Ratio Lower Upper

164 100

162 104.4 84.4 126.6

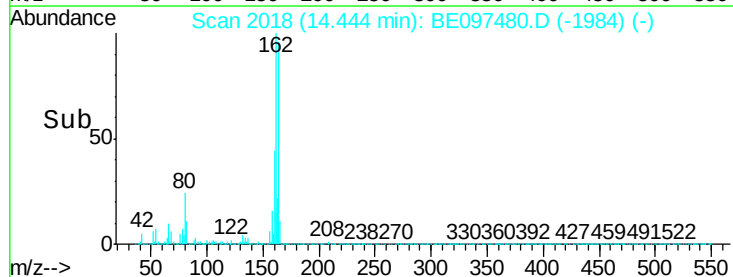
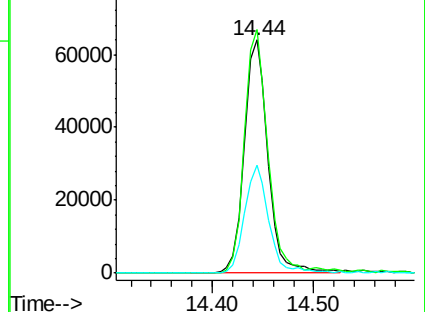
160 46.5 37.7 56.5

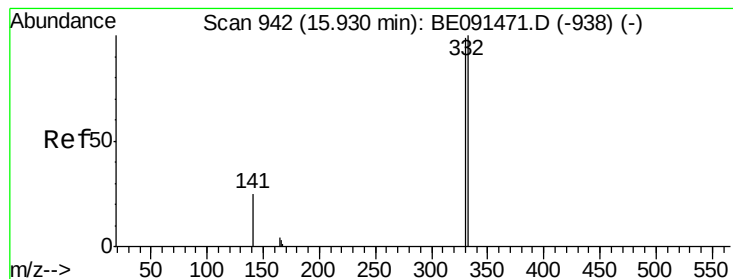


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

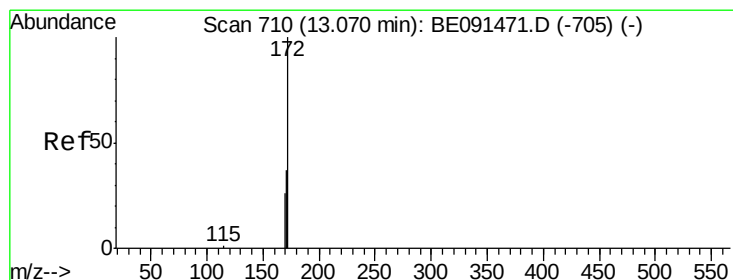
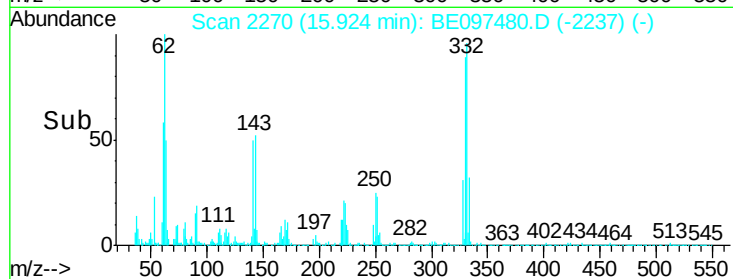
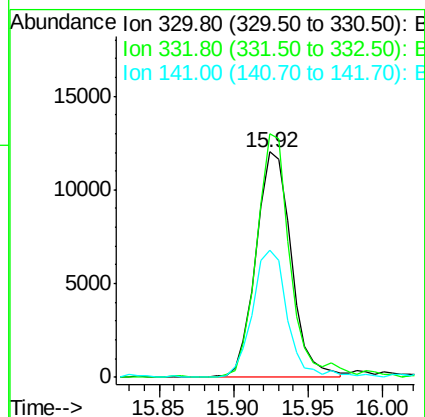
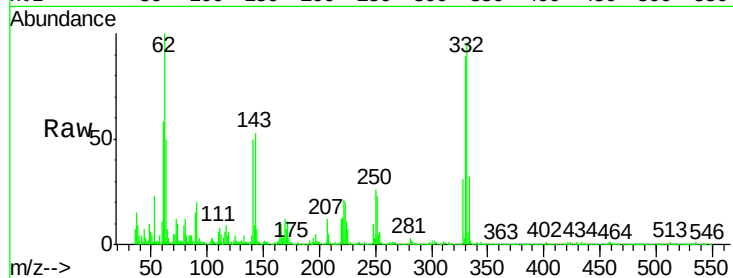




#11
 2,4,6-Tribromophenol
 Concen: 5.25 ng
 RT: 15.92 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: BE097480.D
 Acq: 18 Mar 2016 00:07

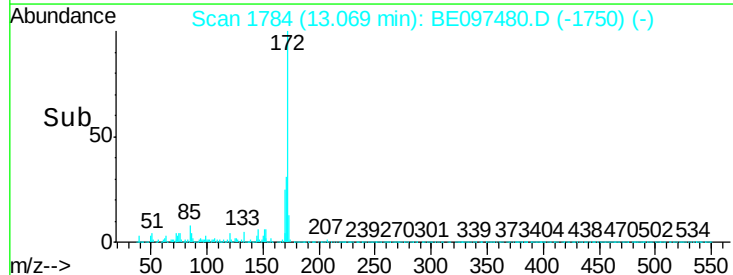
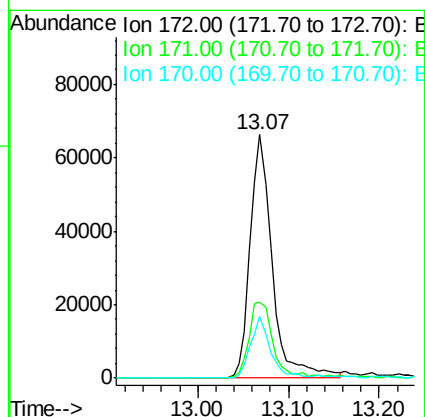
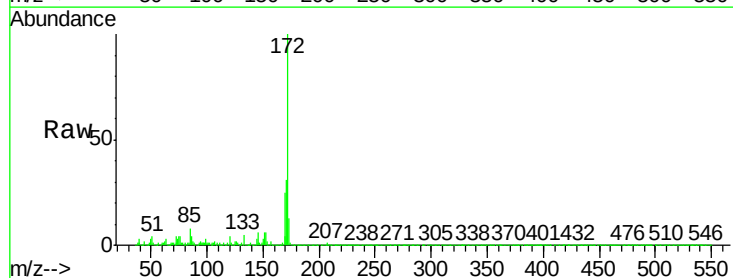
Instrument :
 BNA_E
 ClientSampleId :

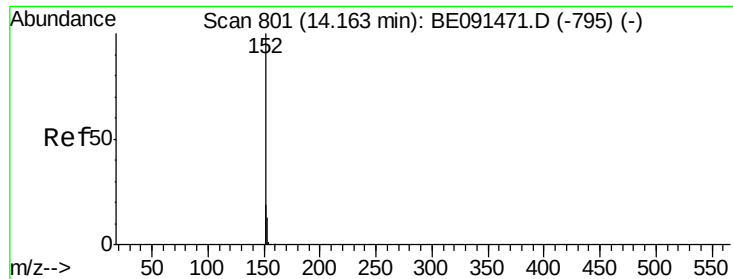
Tgt Ion:330 Resp: 19618
 Ion Ratio Lower Upper
 330 100
 332 102.6 79.2 118.8
 141 53.9 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 4.32 ng
 RT: 13.07 min Scan# 1784
 Delta R.T. -0.00 min
 Lab File: BE097480.D
 Acq: 18 Mar 2016 00:07

Tgt Ion:172 Resp: 111900
 Ion Ratio Lower Upper
 172 100
 171 31.4 29.8 44.8
 170 25.4 21.4 32.2





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.17 min Scan# 1972

Delta R.T. 0.01 min

Lab File: BE097480.D

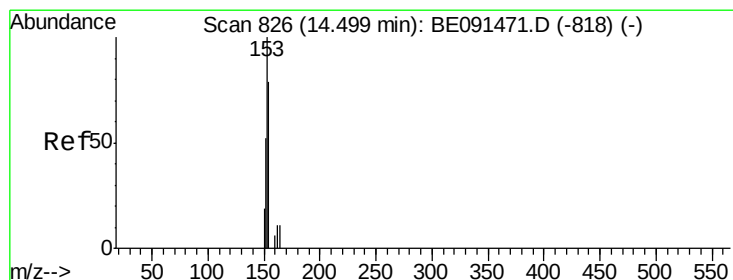
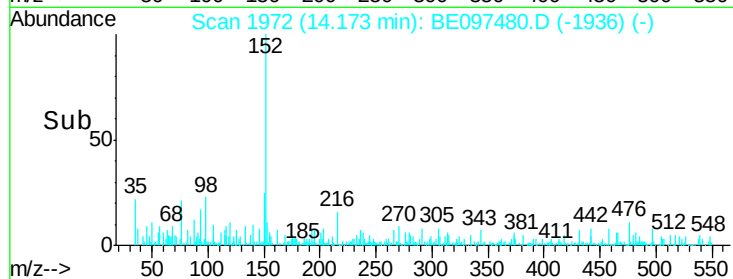
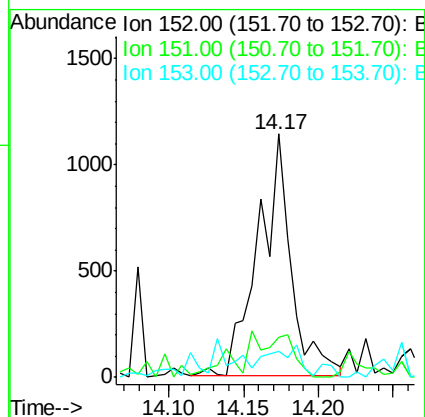
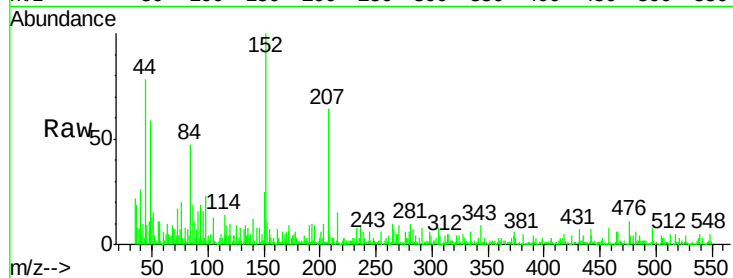
Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampled :

Tgt Ion:	152	Resp:	1723
Ion Ratio	Lower	Upper	
152	100		
151	0.0	16.3	24.5#
153	12.4	11.1	16.7



#14

Acenaphthene

Concen: 0.06 ng

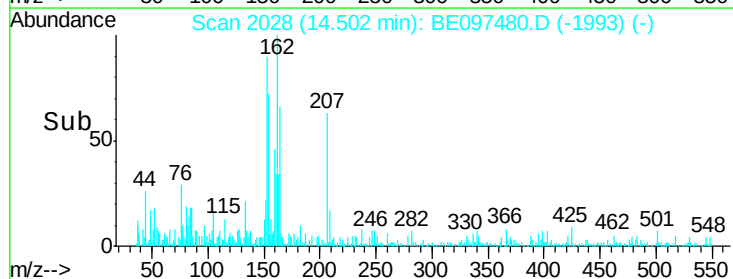
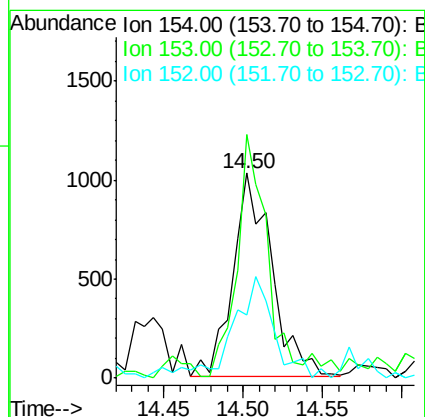
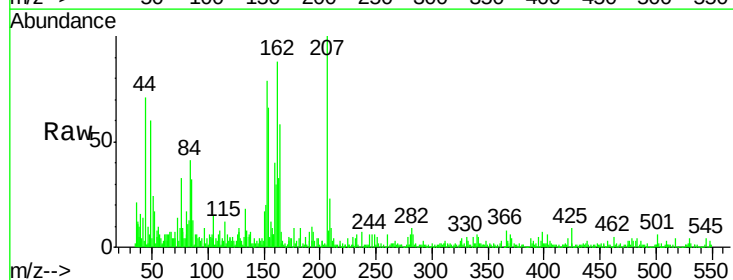
RT: 14.50 min Scan# 2028

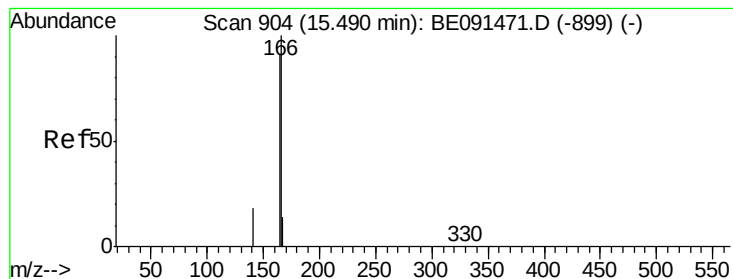
Delta R.T. 0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Tgt Ion:	154	Resp:	1747
Ion Ratio	Lower	Upper	
154	100		
153	91.2	87.3	130.9
152	53.1	42.9	64.3





#15

Fluorene

Concen: 0.05 ng

RT: 15.50 min Scan# 2197

Delta R.T. 0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :

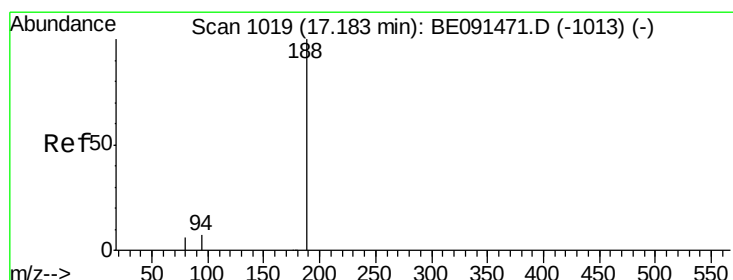
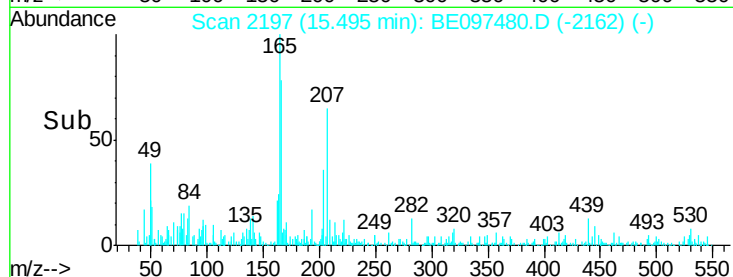
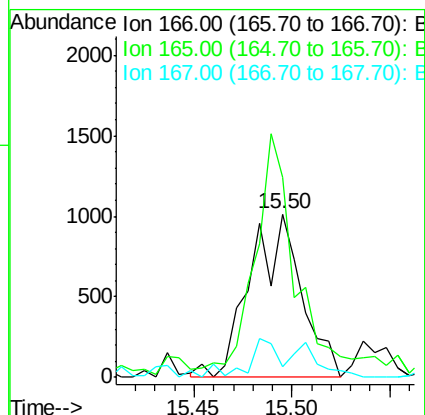
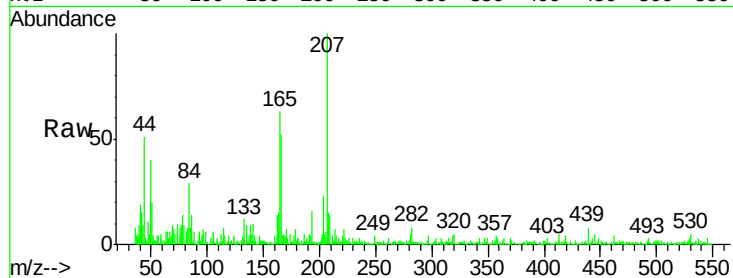
Tgt Ion:166 Resp: 1857

Ion Ratio Lower Upper

166 100

165 0.0 79.2 118.8#

167 10.8 10.8 16.2#



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.18 min Scan# 2483

Delta R.T. -0.01 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

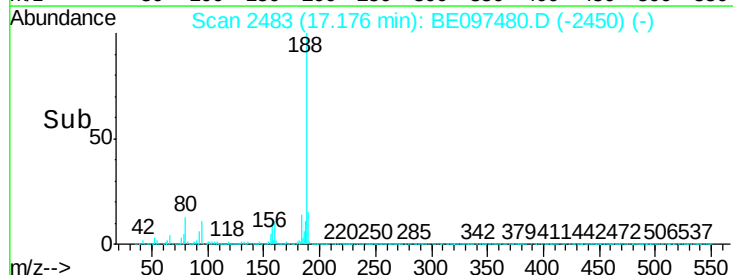
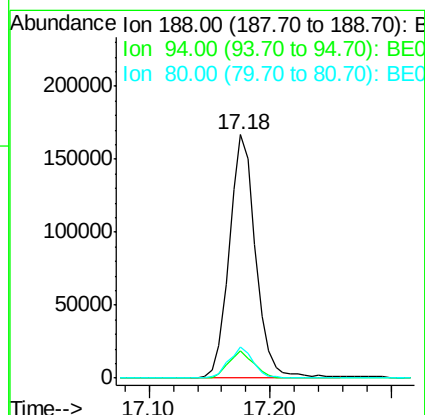
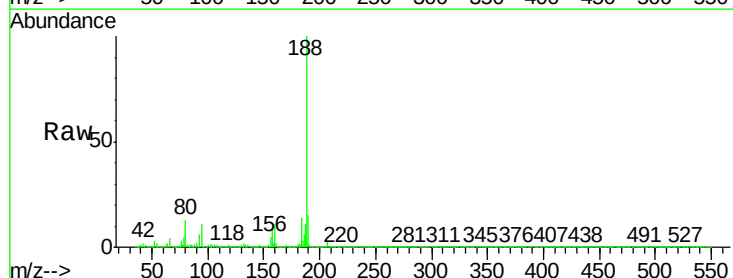
Tgt Ion:188 Resp: 253256

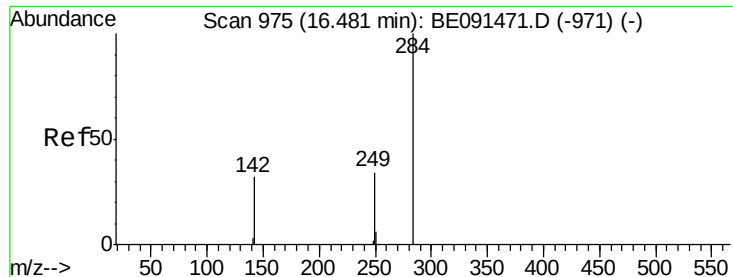
Ion Ratio Lower Upper

188 100

94 11.4 5.4 8.2#

80 12.8 5.0 7.4#

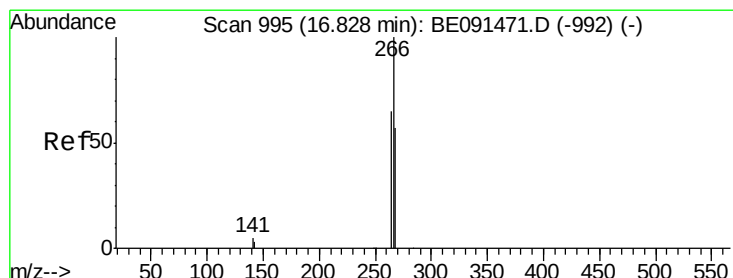
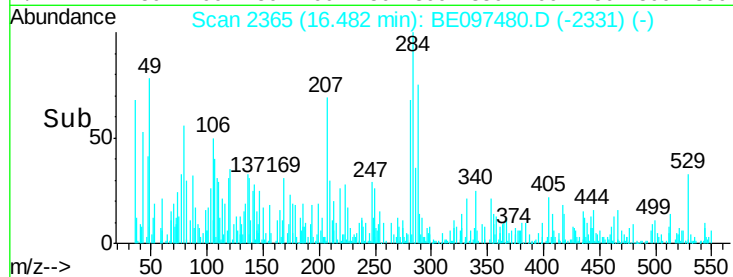
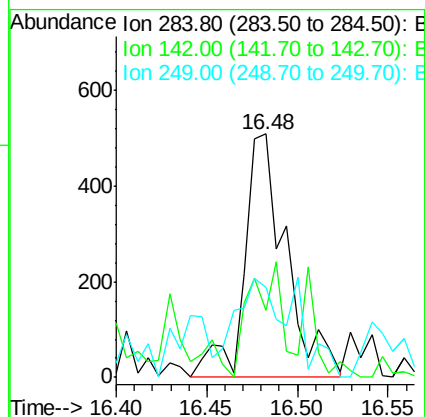
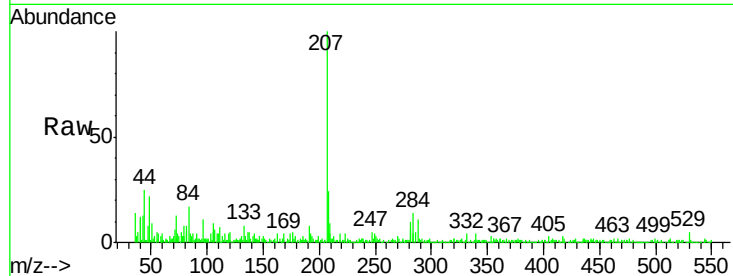




#17
Hexachlorobenzene
Concen: 0.07 ng
RT: 16.48 min Scan# 2365
Delta R.T. 0.00 min
Lab File: BE097480.D
Acq: 18 Mar 2016 00:07

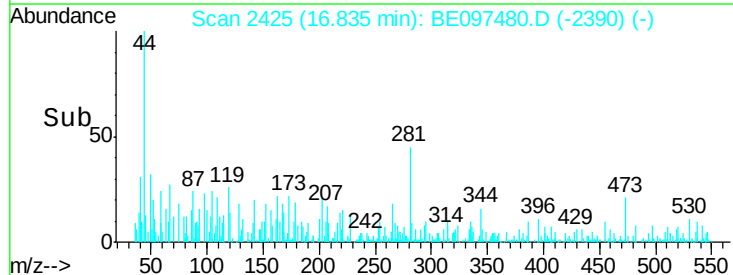
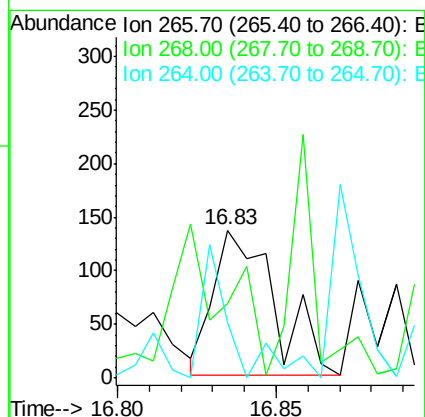
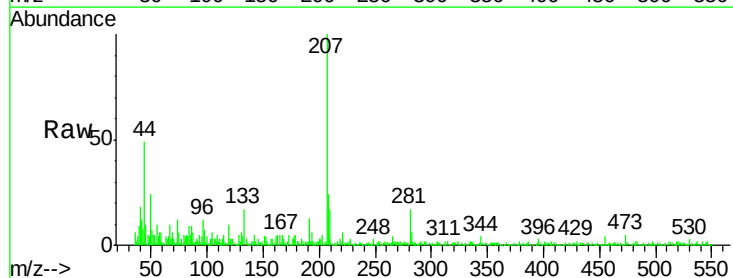
Instrument :
BNA_E
ClientSampled :

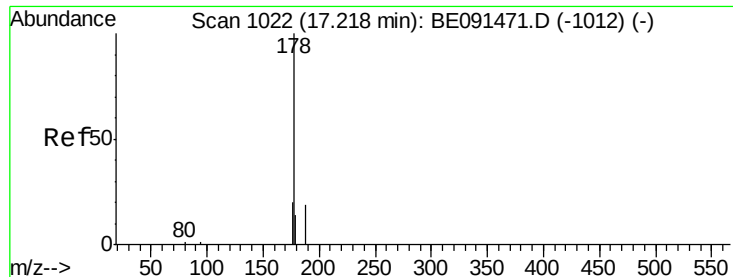
Tgt Ion:284 Resp: 819
Ion Ratio Lower Upper
284 100
142 36.0 31.0 46.4
249 0.0 25.8 38.8#



#18
Pentachlorophenol
Concen: 0.33 ng
RT: 16.83 min Scan# 2425
Delta R.T. 0.01 min
Lab File: BE097480.D
Acq: 18 Mar 2016 00:07

Tgt Ion:266 Resp: 183
Ion Ratio Lower Upper
266 100
268 50.0 48.2 72.2
264 37.0 52.1 78.1#





#19

Phenanthrene

Concen: 0.05 ng

RT: 17.32 min Scan# 2507

Delta R.T. 0.10 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampled :

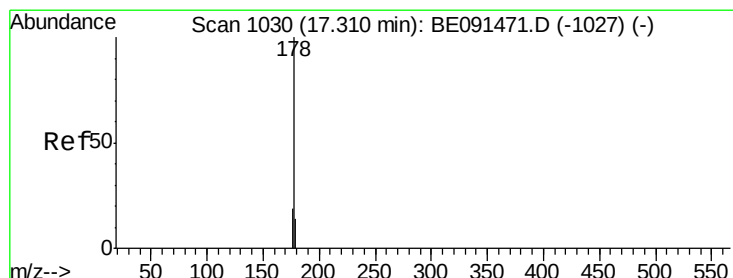
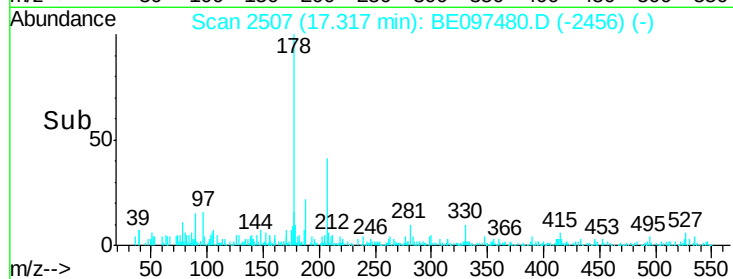
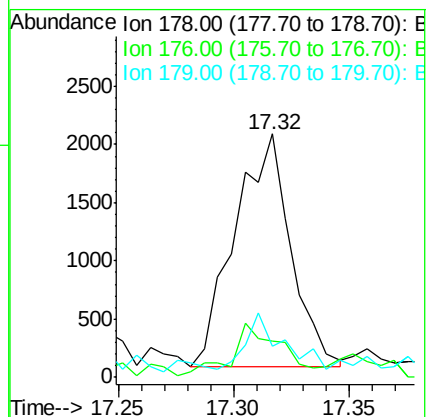
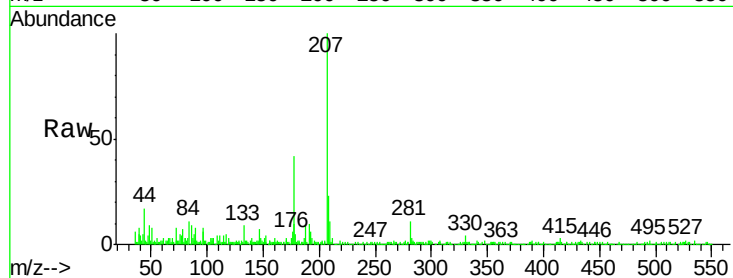
Tgt Ion:178 Resp: 3375

Ion Ratio Lower Upper

178 100

176 20.9 15.5 23.3

179 17.1 13.1 19.7



#20

Anthracene

Concen: 0.05 ng

RT: 17.32 min Scan# 2507

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

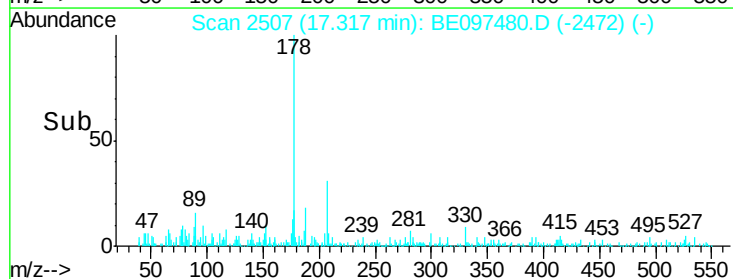
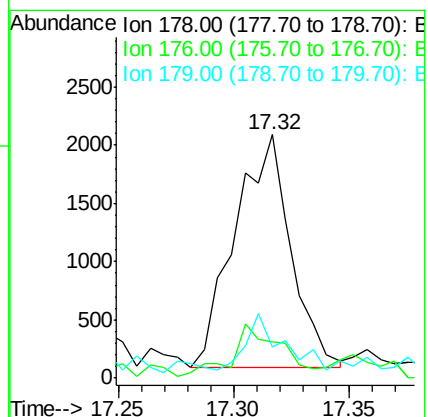
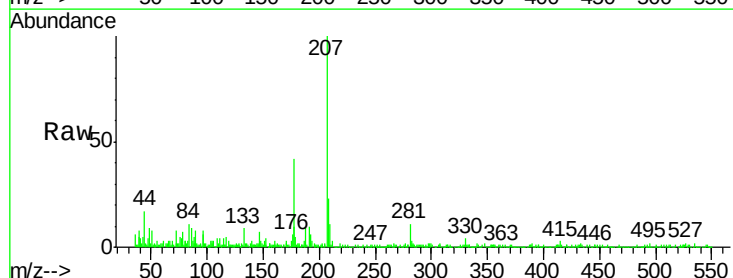
Tgt Ion:178 Resp: 3375

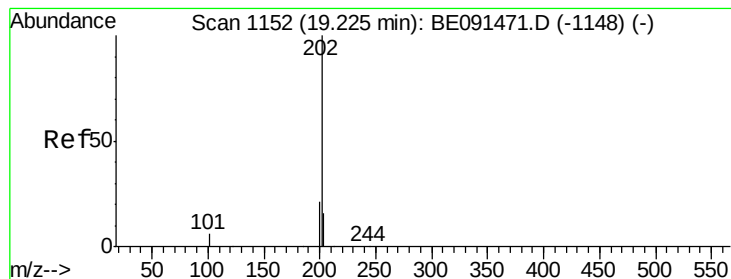
Ion Ratio Lower Upper

178 100

176 19.7 14.9 22.3

179 17.6 12.2 18.4





#21

Fluoranthene

Concen: 0.05 ng

RT: 19.23 min Scan# 2833

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :

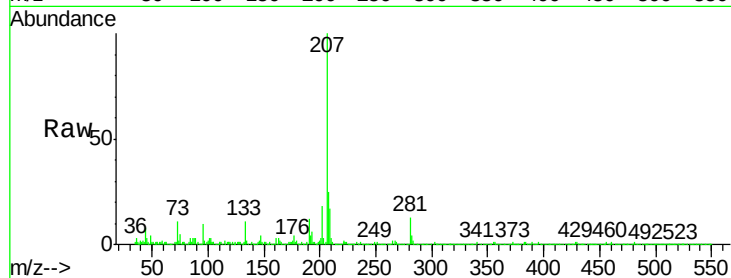
Tgt Ion:202 Resp: 3883

Ion Ratio Lower Upper

202 100

101 9.4 8.3 12.5

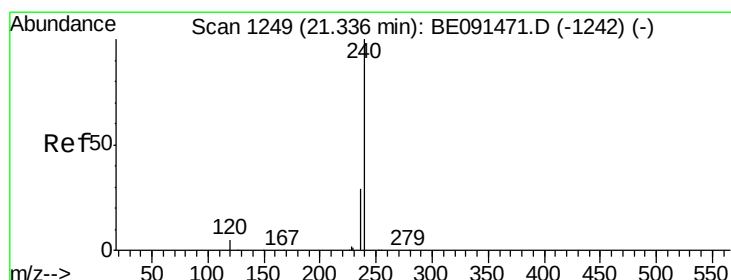
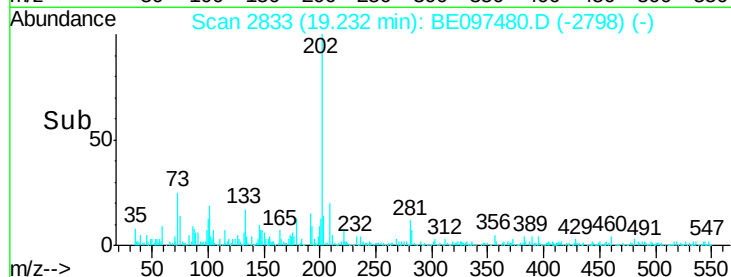
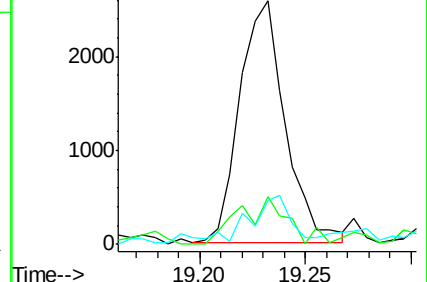
203 16.7 13.9 20.9



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: 21.34 min Scan# 3192

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

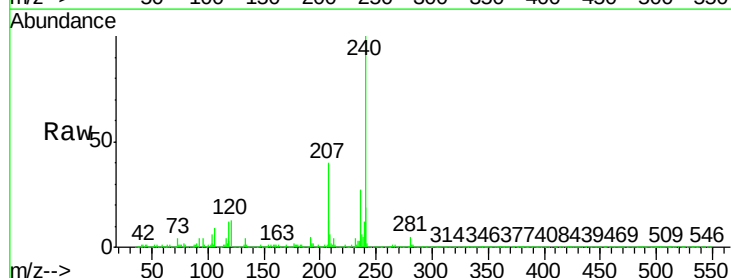
Tgt Ion:240 Resp: 311900

Ion Ratio Lower Upper

240 100

120 13.3 4.0 6.0#

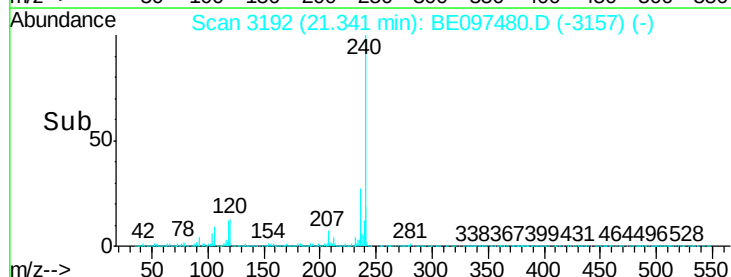
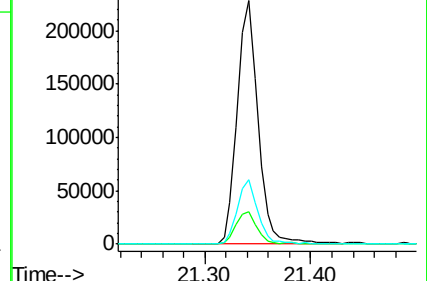
236 26.7 23.0 34.4

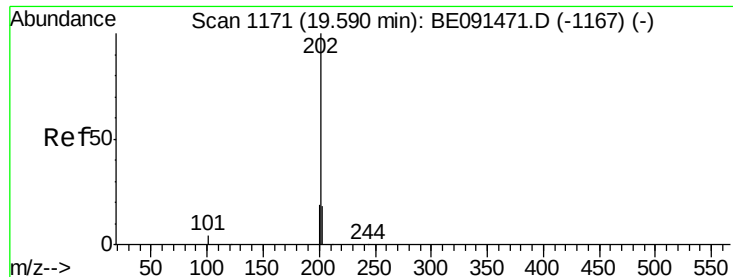


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

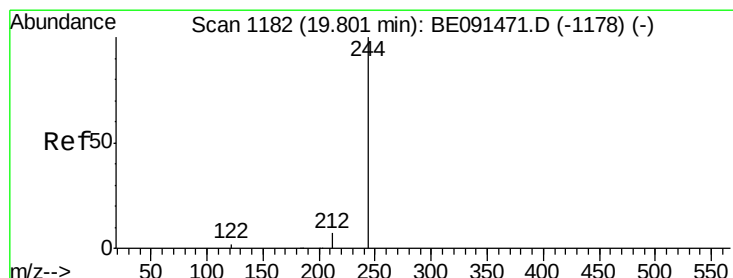
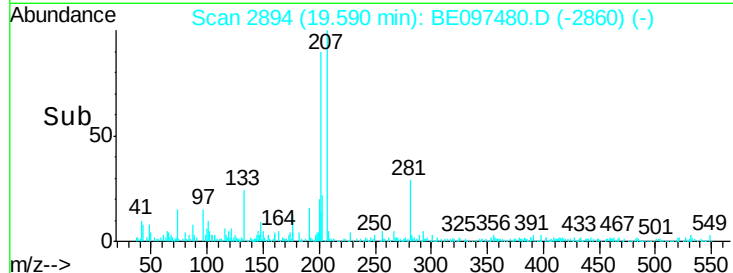
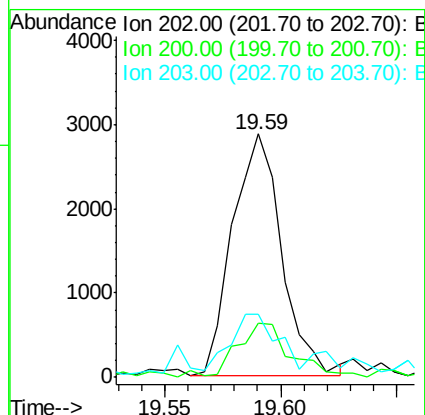
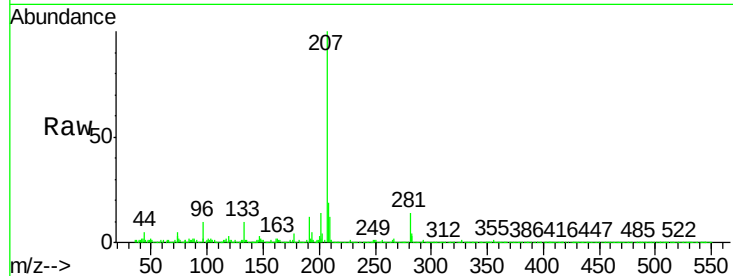




#23
Pyrene
Concen: 0.06 ng
RT: 19.59 min Scan# 2894
Delta R.T. 0.00 min
Lab File: BE097480.D
Acq: 18 Mar 2016 00:07

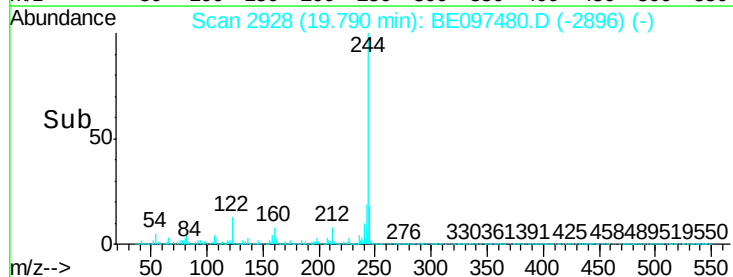
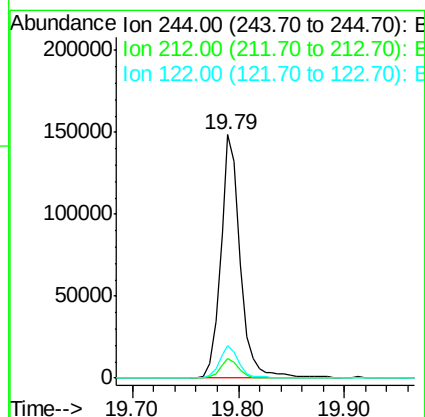
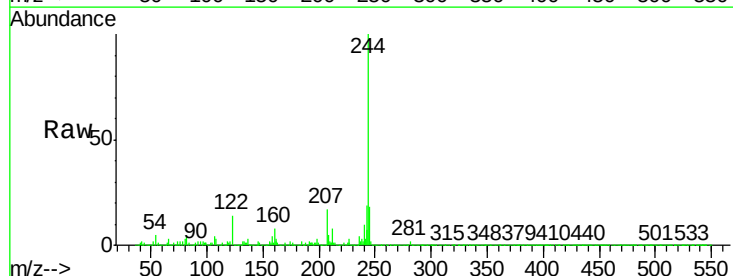
Instrument :
BNA_E
ClientSampleId :

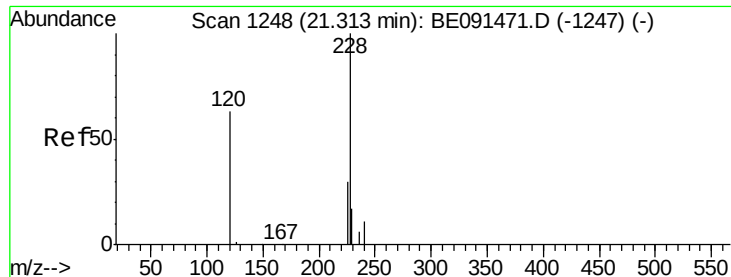
Tgt Ion: 202 Resp: 4285
Ion Ratio Lower Upper
202 100
200 25.0 16.4 24.6#
203 23.3 14.6 21.8#



#24
Terphenyl-d14
Concen: 5.13 ng
RT: 19.79 min Scan# 2928
Delta R.T. -0.01 min
Lab File: BE097480.D
Acq: 18 Mar 2016 00:07

Tgt Ion: 244 Resp: 192615
Ion Ratio Lower Upper
244 100
212 7.8 5.8 8.8
122 13.5 1.8 2.8#





#25

Benzo(a)anthracene

Concen: 0.07 ng

RT: 21.32 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BE097480.D

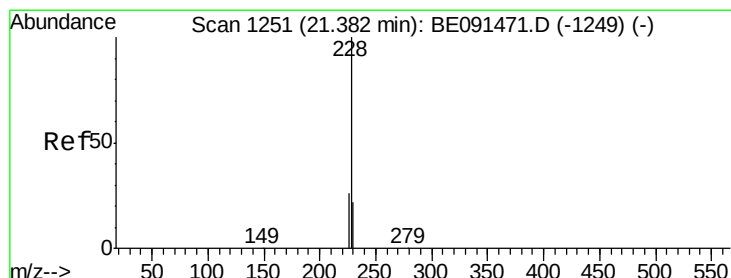
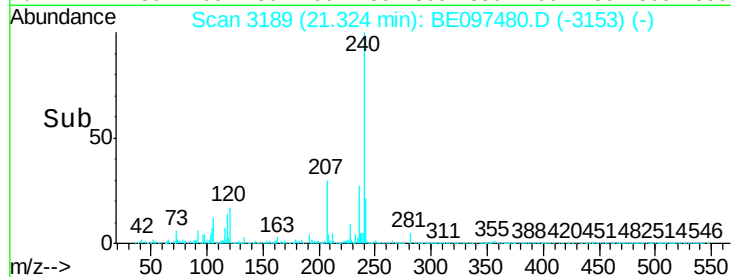
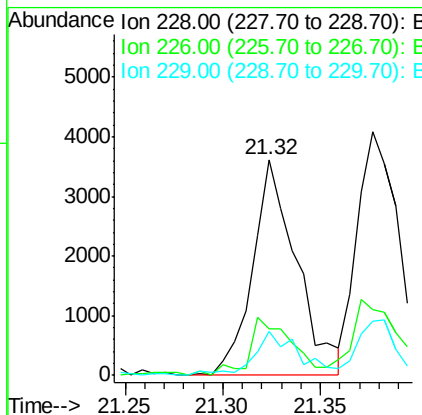
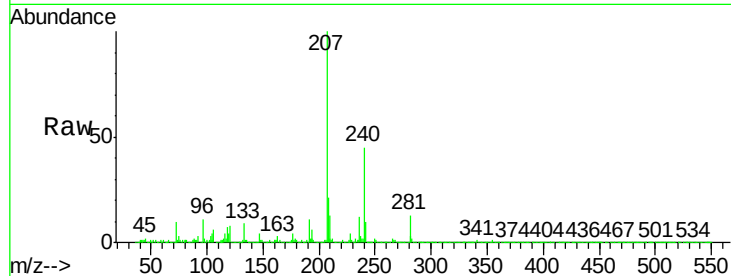
Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampled :

Tgt Ion:	228	Resp:	5603
Ion	Ratio	Lower	Upper
228	100		
226	21.4	24.0	36.0#
229	20.4	13.8	20.6



#26

Chrysene

Concen: Below Cal

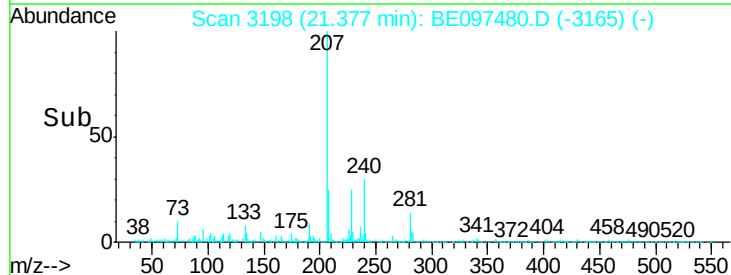
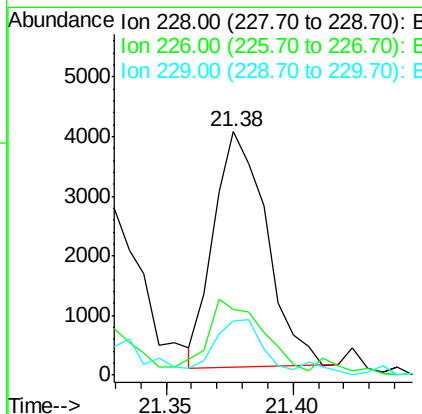
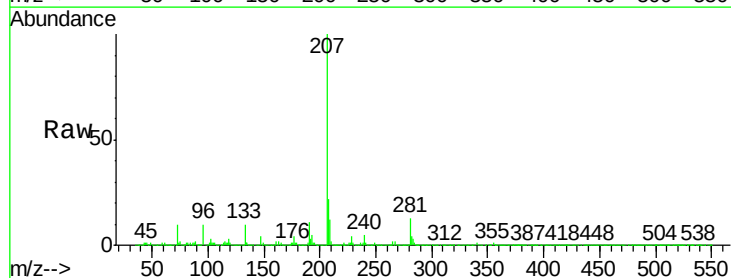
RT: 21.38 min Scan# 3198

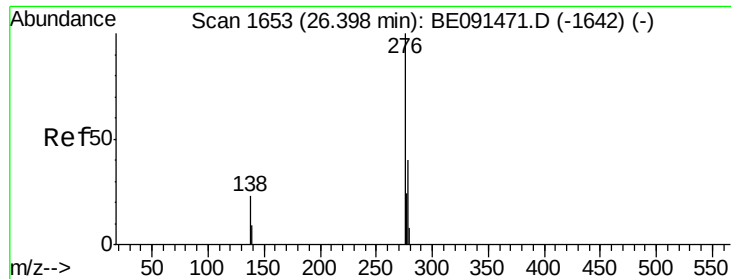
Delta R.T. -0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Tgt Ion:	228	Resp:	5685
Ion	Ratio	Lower	Upper
228	100		
226	26.8	18.9	28.3
229	22.1	19.1	28.7





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 26.42 min Scan# 4056

Delta R.T. 0.02 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampled :

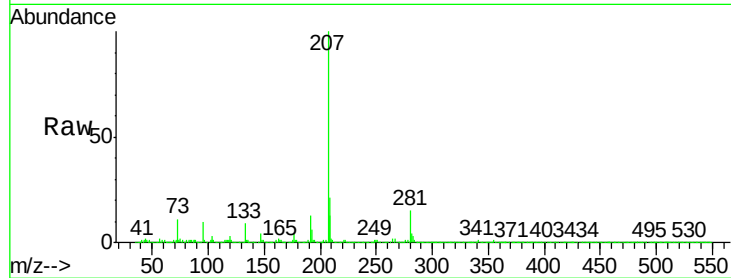
Tgt Ion:276 Resp: 1913

Ion Ratio Lower Upper

276 100

138 47.7 20.2 30.4#

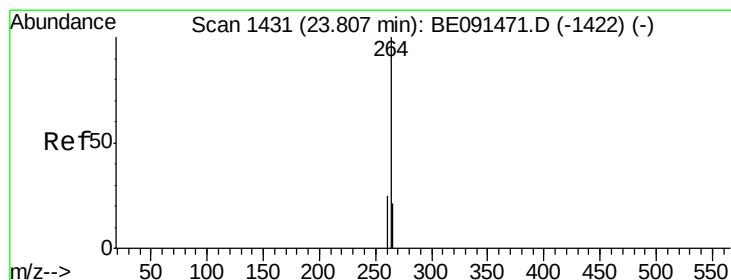
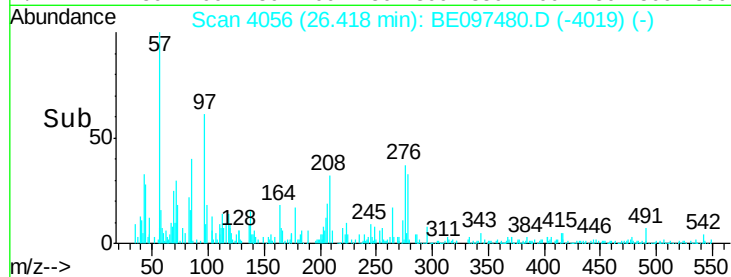
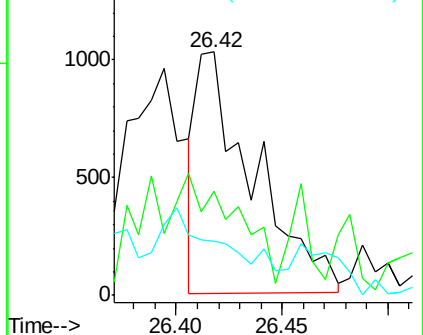
277 42.7 19.8 29.8#



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: 23.80 min Scan# 3611

Delta R.T. -0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

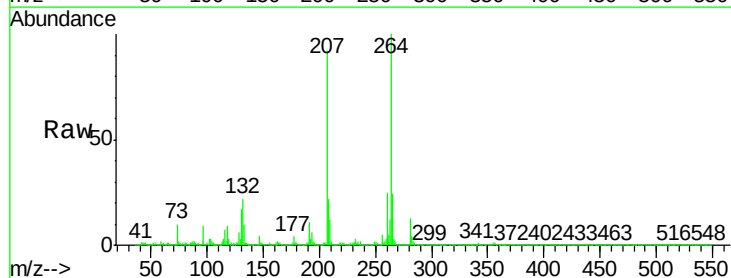
Tgt Ion:264 Resp: 303076

Ion Ratio Lower Upper

264 100

260 24.9 20.1 30.1

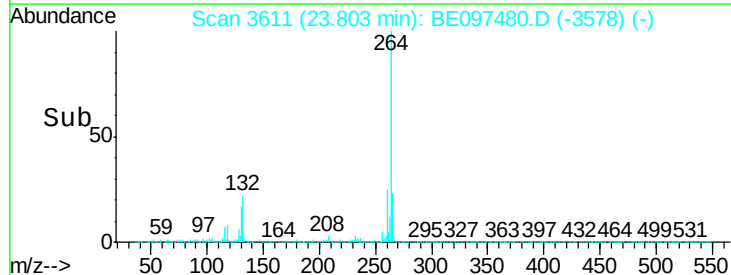
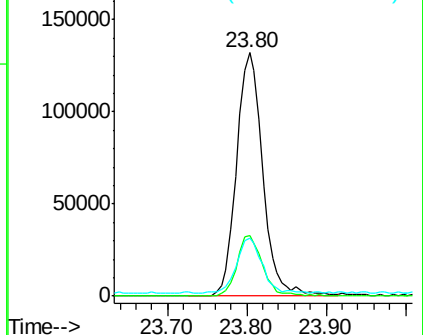
265 23.9 18.3 27.5

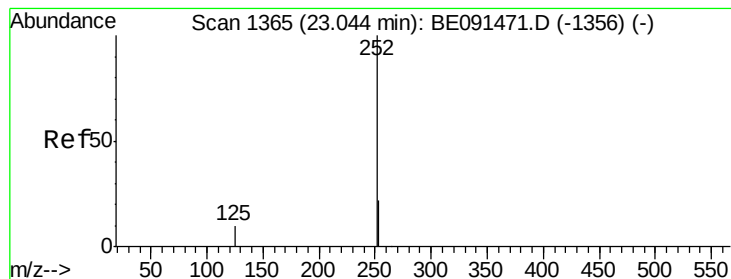


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#29

Benzo(b)fluoranthene

Concen: 0.06 ng

RT: 23.05 min Scan# 3482

Delta R.T. 0.00 min

Lab File: BE097480.D

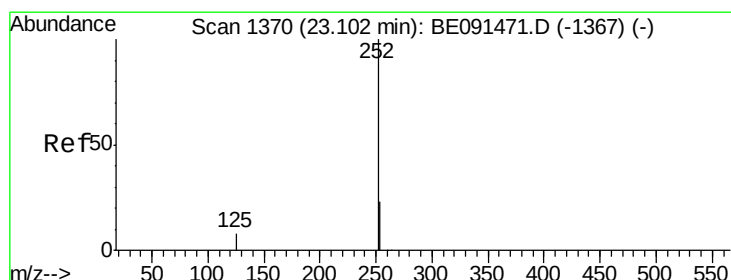
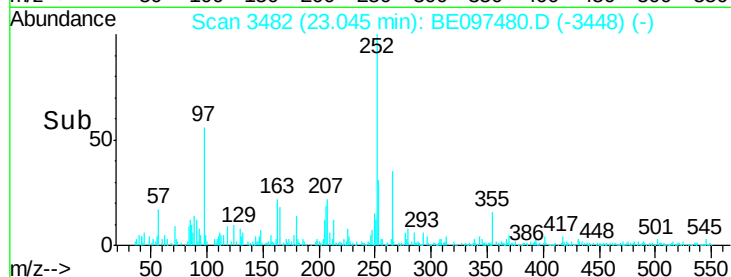
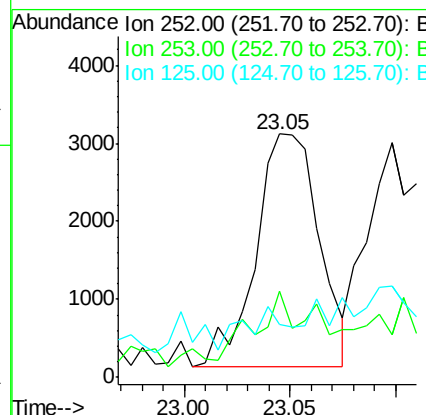
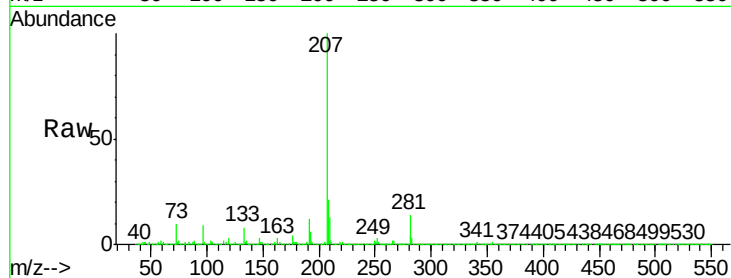
Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	6208
Ion Ratio	Lower	Upper	
252	100		
253	35.6	18.7	28.1#
125	21.5	9.8	14.6#



#30

Benzo(k)fluoranthene

Concen: 0.06 ng

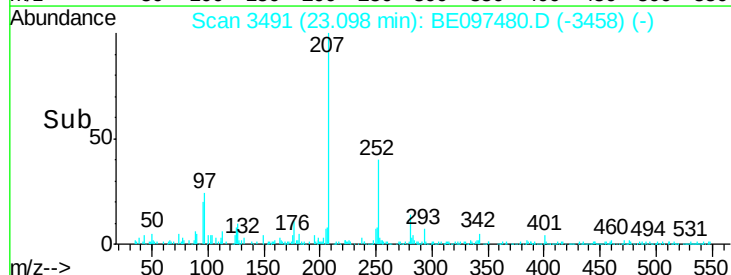
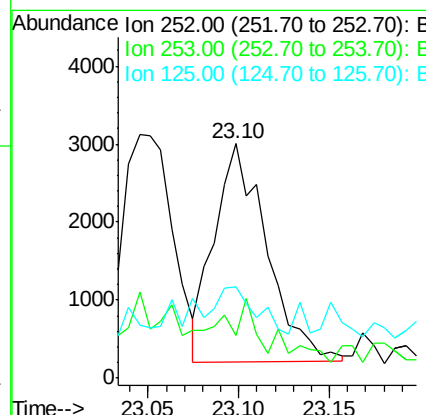
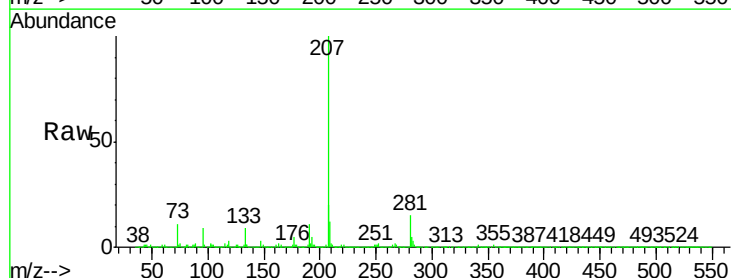
RT: 23.10 min Scan# 3491

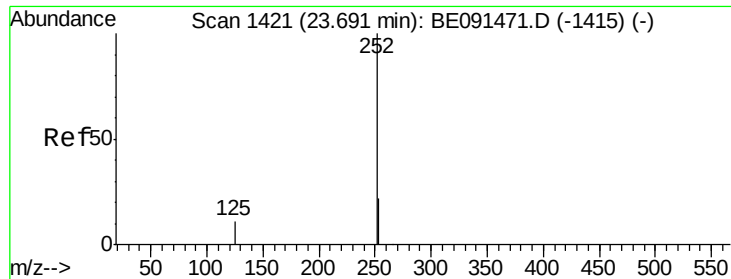
Delta R.T. -0.00 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Tgt Ion:	252	Resp:	5626
Ion Ratio	Lower	Upper	
252	100		
253	18.0	20.2	30.4#
125	38.9	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.04 ng

RT: 23.70 min Scan# 3593

Delta R.T. 0.01 min

Lab File: BE097480.D

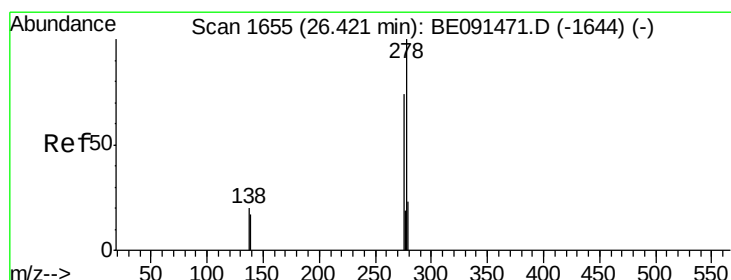
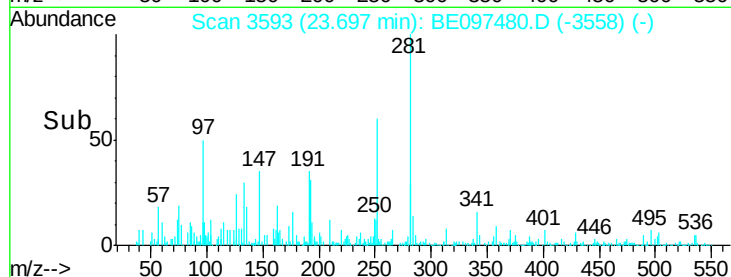
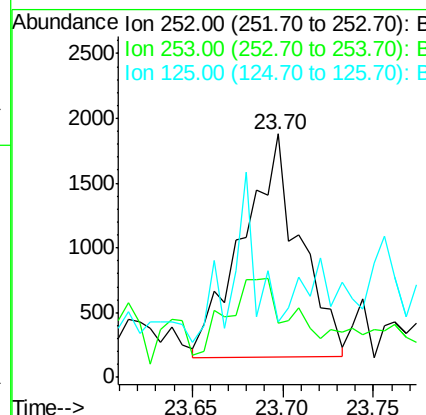
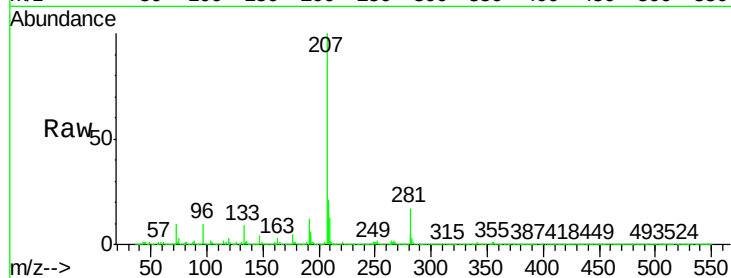
Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	3797
Ion Ratio	Lower	Upper	
252	100		
253	22.5	19.4	29.0
125	22.7	11.4	17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.01 ng

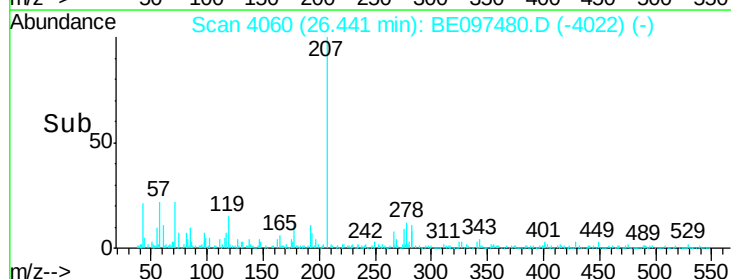
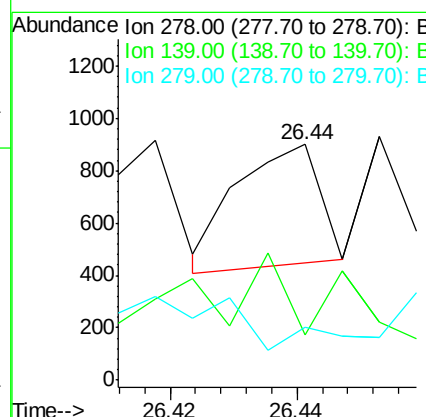
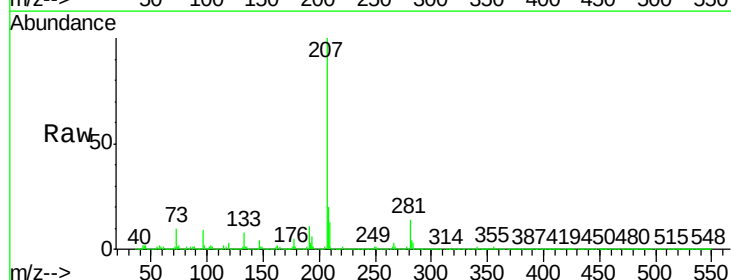
RT: 26.44 min Scan# 4060

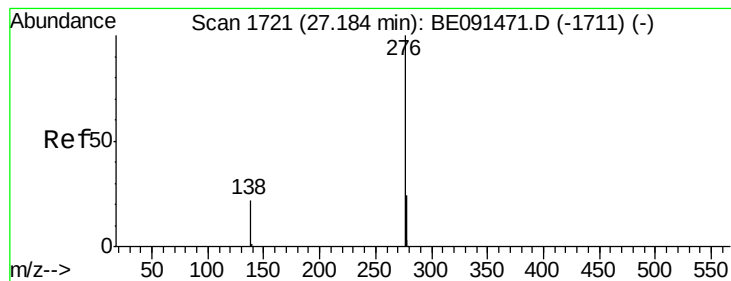
Delta R.T. 0.02 min

Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Tgt Ion:	278	Resp:	421
Ion Ratio	Lower	Upper	
278	100		
139	19.3	14.2	21.4
279	22.4	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 0.01 ng

RT: 27.17 min Scan# 4184

Delta R.T. -0.01 min

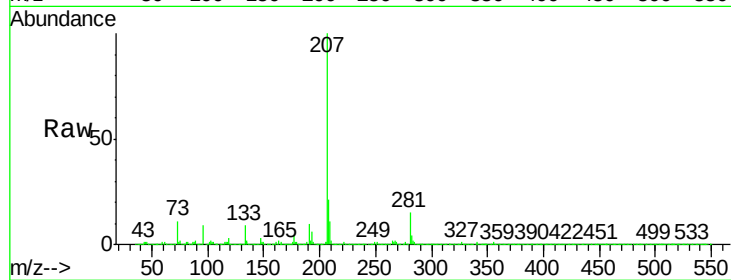
Lab File: BE097480.D

Acq: 18 Mar 2016 00:07

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	1243
Ion Ratio	Lower	Upper	
276	100		
277	5.3	19.4	29.2#
138	10.1	18.2	27.4#

