

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022318\
 Data File : BE095684.D
 Acq On : 23 Feb 2018 15:43
 Operator : SJ/JU
 Sample : PB106752BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 23 18:24:23 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 12:12:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	1323	0.40	ng	0.00
7) Naphthalene-d8	11.26	136	4733	0.40	ng	-0.02
13) Acenaphthene-d10	15.00	164	2488	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	5682	0.40	ng	0.01
27) Chrysene-d12	21.79	240	6241	0.40	ng	0.00
34) Perylene-d12	24.42	264	5873	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.92	112	1155	0.33	ng	0.00
5) Phenol-d6	7.56	99	1471	0.30	ng	0.00
8) Nitrobenzene-d5	9.60	82	1455	0.30	ng	-0.02
11) 2-Methylnaphthalene-d10	12.80	152	2377	0.30	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	233	0.31	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	3304	0.30	ng	0.00
25) Fluoranthene-d10	19.68	212	23003	0.31	ng	0.00
29) Terphenyl-d14	20.25	244	3535	0.28	ng	0.00

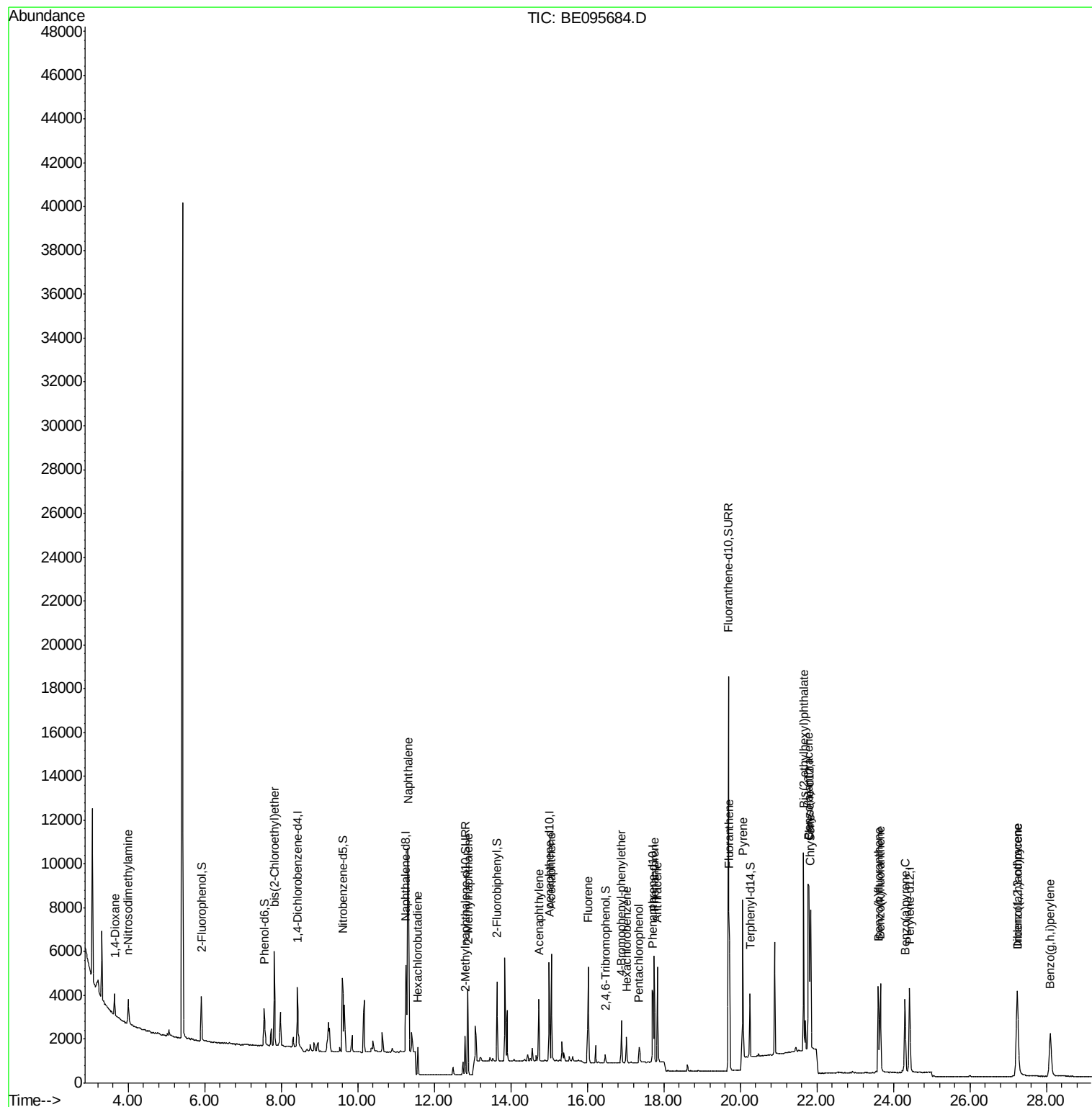
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.65	88	581	0.279	ng	# 14
3) n-Nitrosodimethylamine	3.99	42	778	0.301	ng	# 86
6) bis(2-Chloroethyl)ether	7.82	93	1471	0.296	ng	92
9) Naphthalene	11.31	128	16444	0.301	ng	99
10) Hexachlorobutadiene	11.57	225	963	0.303	ng	99
12) 2-Methylnaphthalene	12.88	142	2770	0.294	ng	99
16) Acenaphthylene	14.73	152	3766	0.269	ng	99
17) Acenaphthene	15.06	154	2376	0.271	ng	94
18) Fluorene	16.02	166	3012	0.277	ng	# 79
20) 4-Bromophenyl-phenylether	16.89	248	967	0.271	ng	# 66
21) Hexachlorobenzene	17.03	284	1023	0.277	ng	# 82
22) Pentachlorophenol	17.36	266	427	0.493	ng	# 79
23) Phenanthrene	17.74	178	5068	0.285	ng	98
24) Anthracene	17.83	178	4698	0.288	ng	96
26) Fluoranthene	19.71	202	6440	0.295	ng	# 97
28) Pyrene	20.06	202	7378	0.289	ng	98
30) Benzo(a)anthracene	21.78	228	6156	0.302	ng	97
31) Chrysene	21.84	228	6105	0.301	ng	99
32) Bis(2-ethylhexyl)phthalate	21.65	149	10234	0.284	ng	99
33) Indeno(1,2,3-cd)pyrene	27.23	276	6230	0.318	ng	# 93
35) Benzo(b)fluoranthene	23.61	252	5972	0.285	ng	# 91
36) Benzo(k)fluoranthene	23.66	252	5993	0.288	ng	93
37) Benzo(a)pyrene	24.30	252	5680	0.301	ng	# 93
38) Dibenzo(a,h)anthracene	27.25	278	4956	0.295	ng	95
39) Benzo(g,h,i)perylene	28.10	276	5291	0.294	ng	# 91

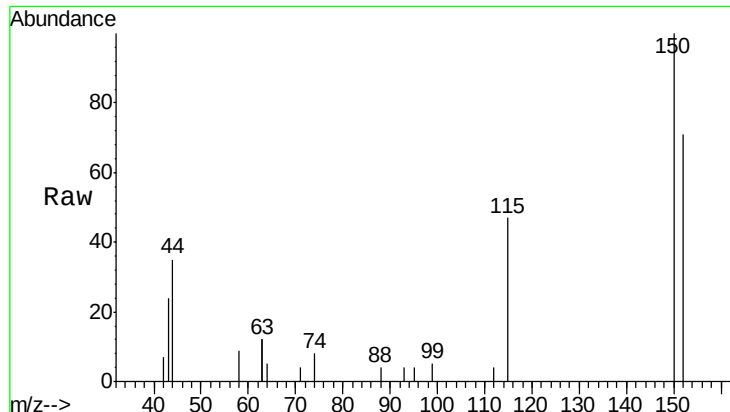
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022318\
Data File : BE095684.D
Acq On : 23 Feb 2018 15:43
Operator : SJ/JU
Sample : PB106752BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :

Quant Time: Feb 23 18:24:23 2018
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 23 12:12:42 2018
Response via : Initial Calibration

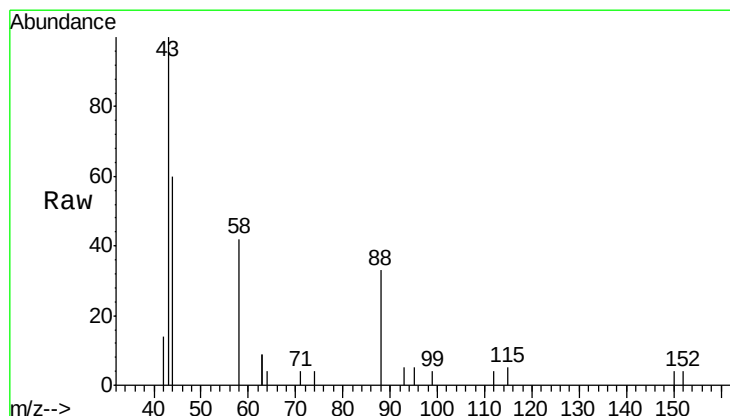
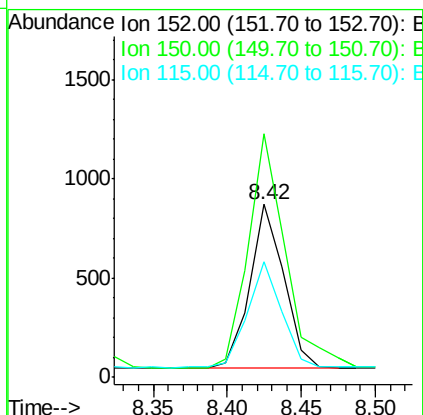
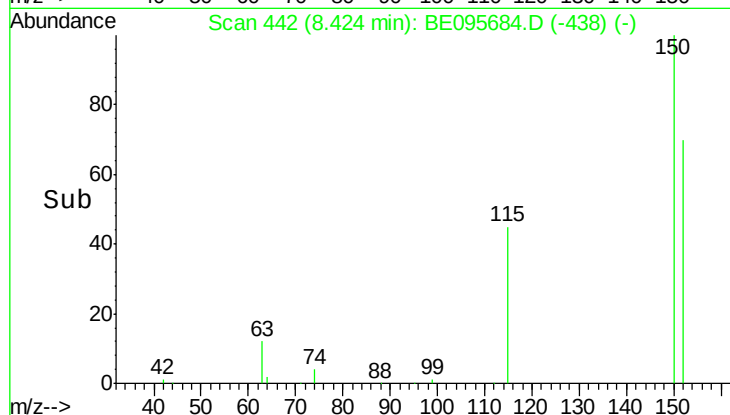




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 8.42 min Scan# 442
 Delta R.T. -0.01 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

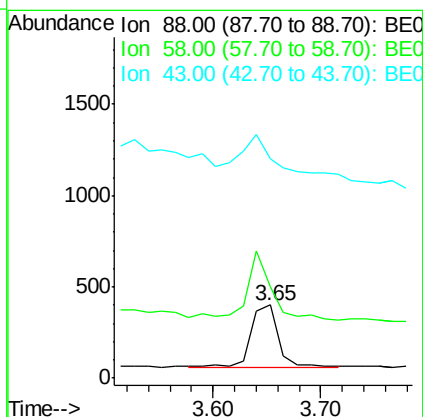
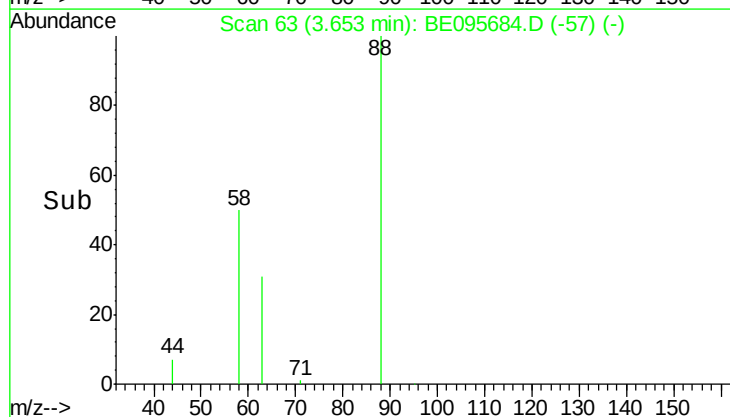
Instrument :
 BNA_E
 ClientSampleId :

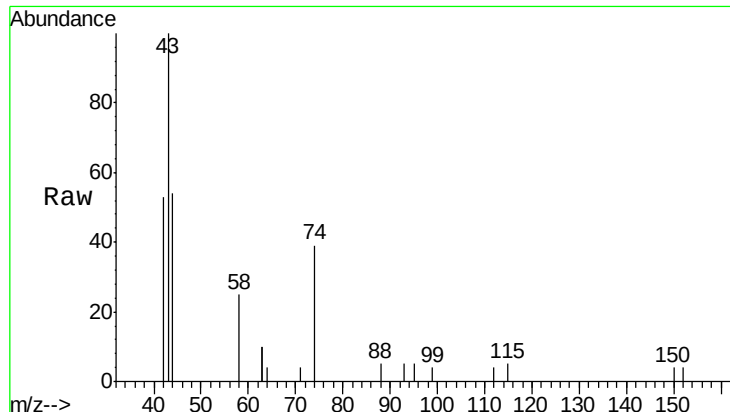
Tot Ion:152 Resp: 1323
 Ion Ratio Lower Upper
 152 100
 150 140.9 117.2 175.8
 115 66.7 57.0 85.6



#2
 1,4-Dioxane
 Concen: 0.279 ng
 RT: 3.65 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Tgt Ion: 88 Resp: 581
 Ion Ratio Lower Upper
 88 100
 58 97.8 63.2 94.8#
 43 180.2 41.2 61.8#

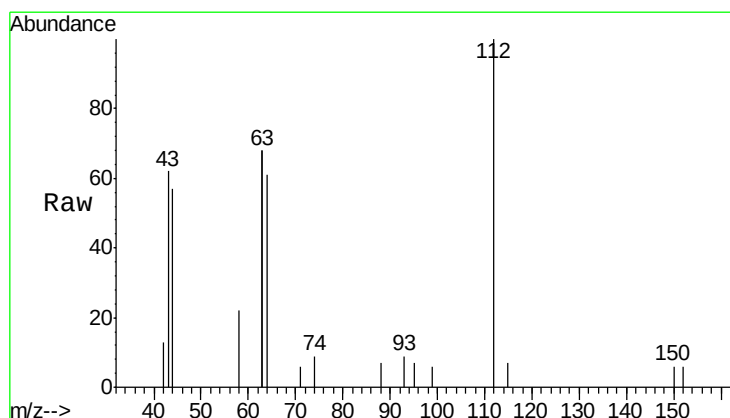
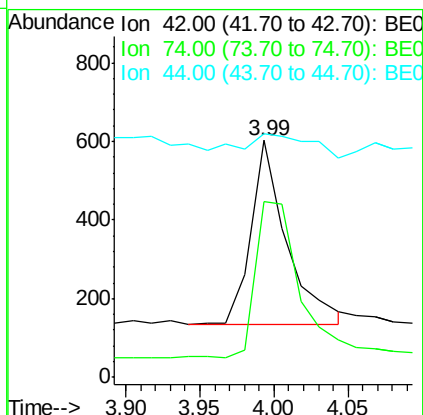
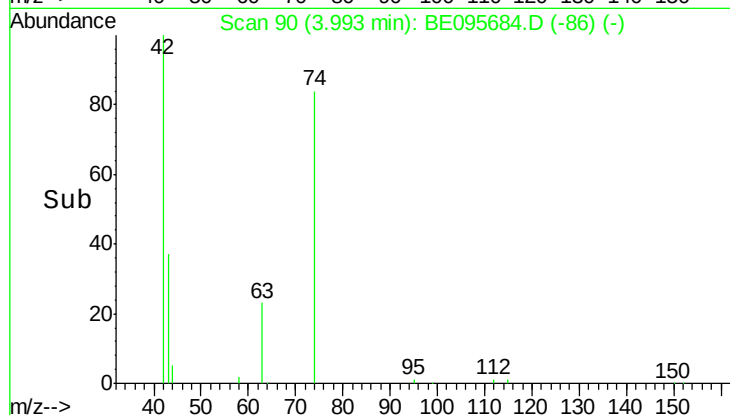




#3
n-Nitrosodimethylamine
Concen: 0.301 ng
RT: 3.99 min Scan# 90
Delta R.T. -0.01 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

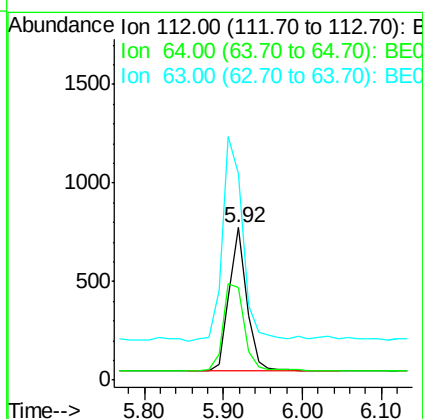
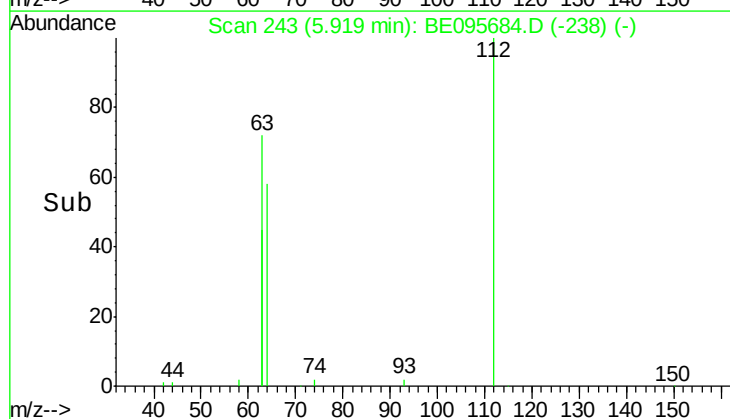
Instrument :
BNA_E
ClientSampleId :

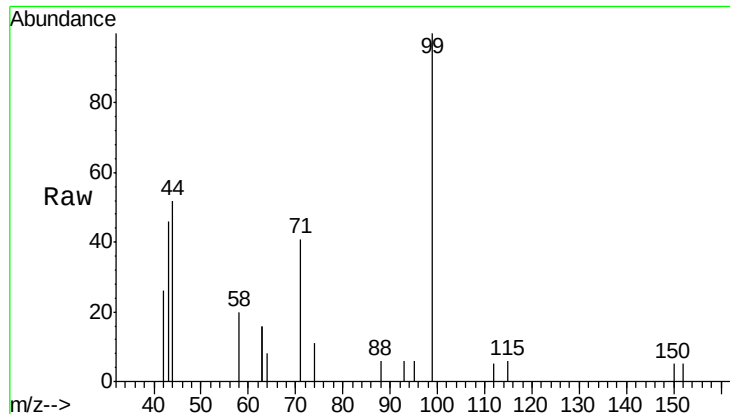
Tot Ion: 42 Resp: 778
Ion Ratio Lower Upper
42 100
74 105.3 96.0 144.0
44 25.1 12.0 18.0#



#4
2-Fluorophenol
Concen: 0.331 ng
RT: 5.92 min Scan# 243
Delta R.T. 0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion:112 Resp: 1155
Ion Ratio Lower Upper
112 100
64 74.5 60.1 90.1
63 161.6 116.8 175.2





#5

Phenol-d6

Concen: 0.304 ng

RT: 7.56 min Scan# 373

Delta R.T. 0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampled :

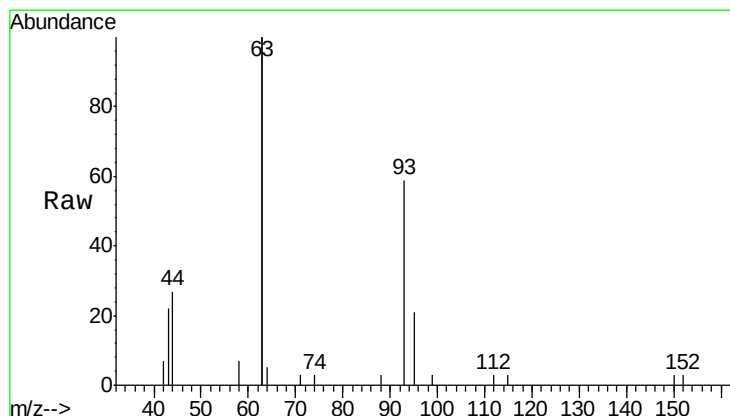
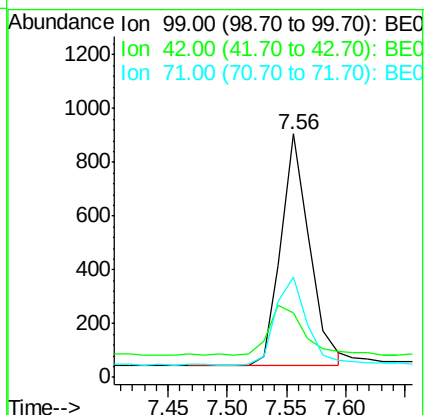
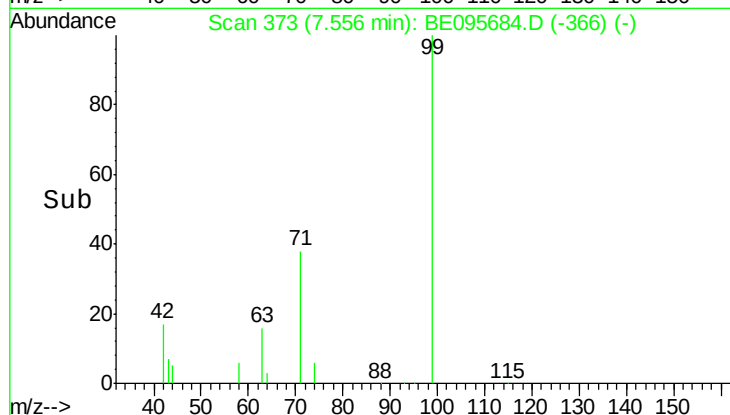
Tot Ion: 99 Resp: 1471

Ion Ratio Lower Upper

99 100

42 25.8 20.2 30.2

71 41.3 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.296 ng

RT: 7.82 min Scan# 394

Delta R.T. -0.01 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

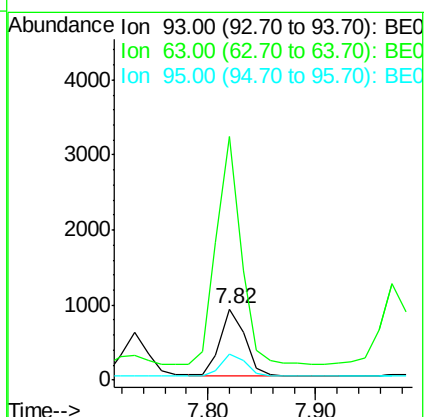
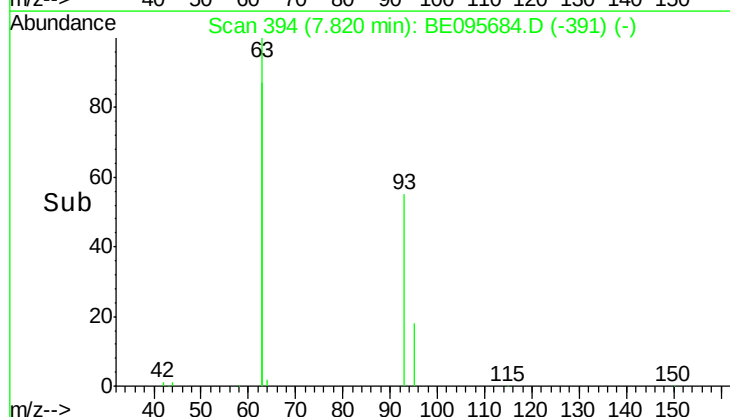
Tgt Ion: 93 Resp: 1471

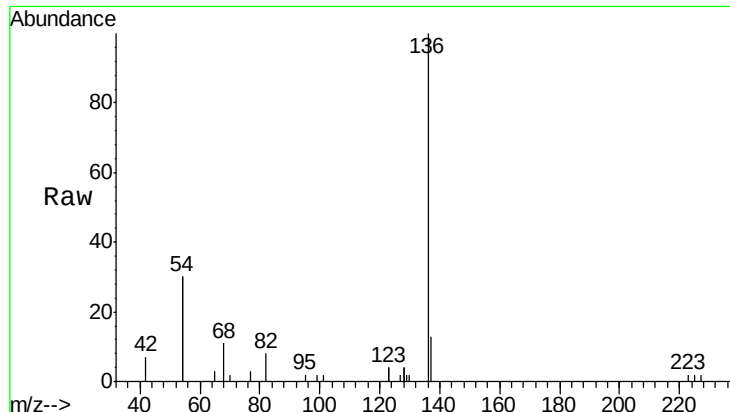
Ion Ratio Lower Upper

93 100

63 325.1 275.3 412.9

95 33.2 25.2 37.8

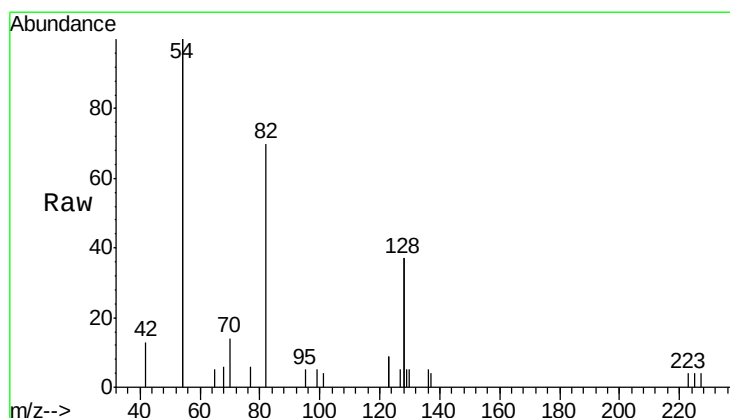
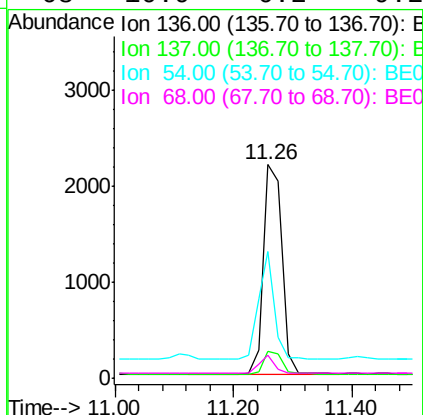
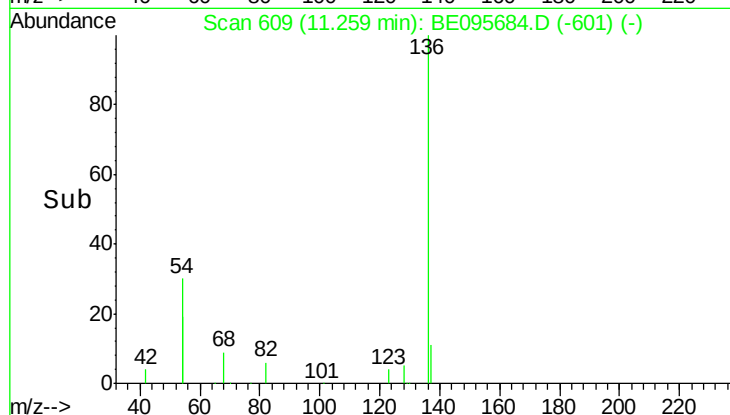




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 11.26 min Scan# 609
Delta R.T. -0.02 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

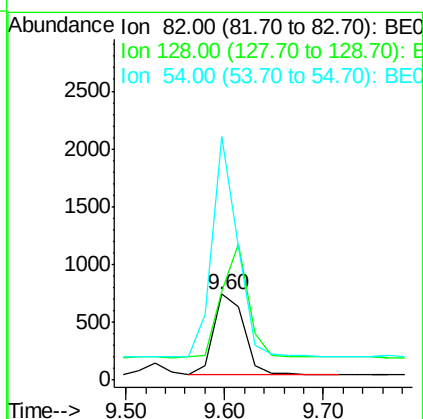
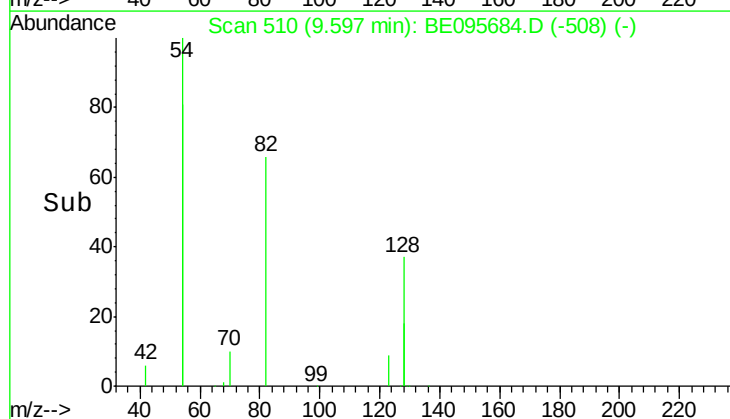
Instrument :
BNA_E
ClientSampleId :

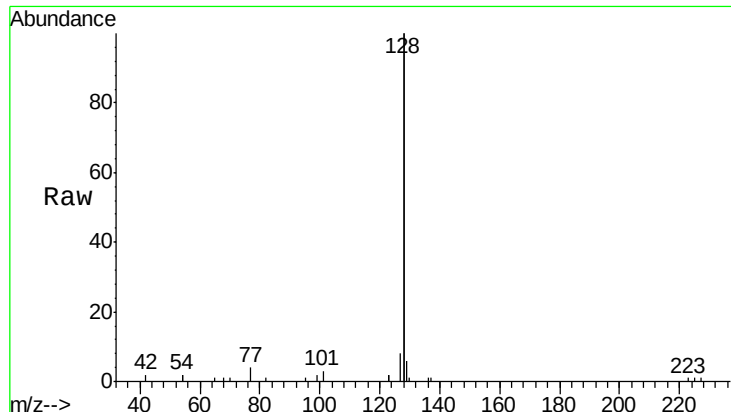
Tot Ion:136 Resp: 4733
Ion Ratio Lower Upper
136 100
137 12.6 9.5 14.3
54 59.2 29.1 43.7#
68 10.9 6.2 9.2#



#8
Nitrobenzene-d5
Concen: 0.298 ng
RT: 9.60 min Scan# 510
Delta R.T. -0.02 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion: 82 Resp: 1455
Ion Ratio Lower Upper
82 100
128 104.3 150.0 225.0#
54 284.6 154.2 231.4#

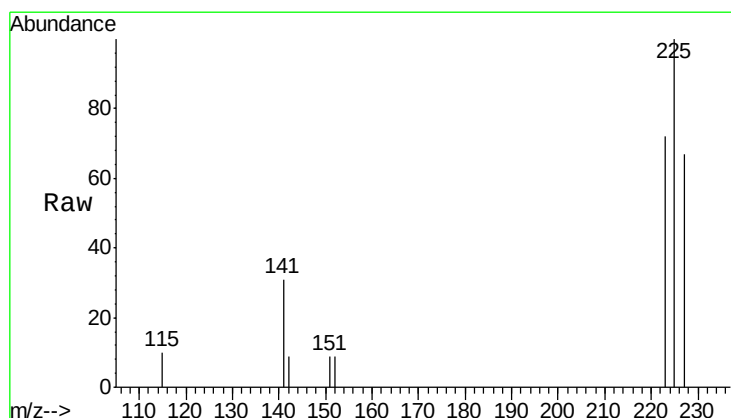
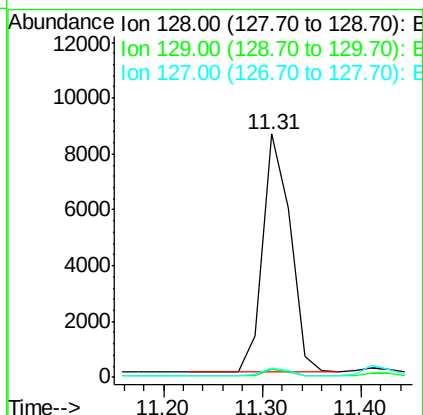
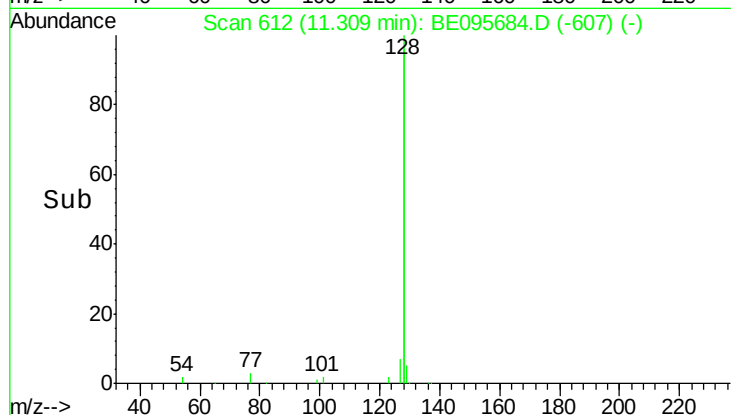




#9
Naphthalene
Concen: 0.301 ng
RT: 11.31 min Scan# 612
Delta R.T. 0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

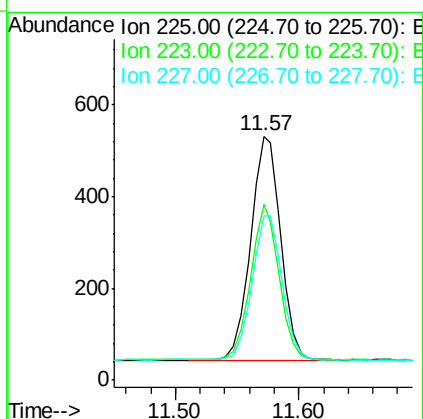
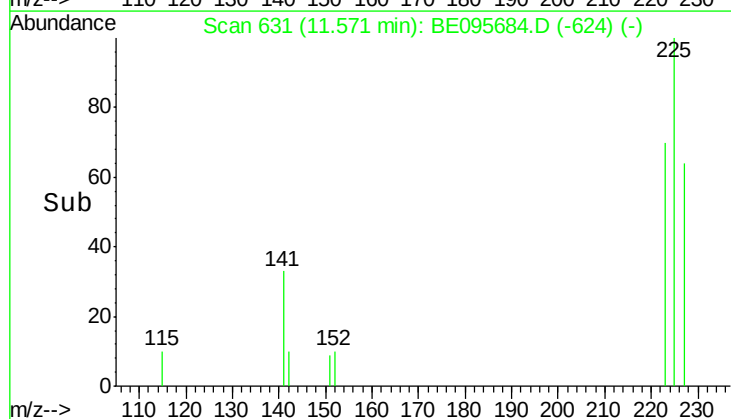
Instrument :
BNA_E
ClientSampleId :

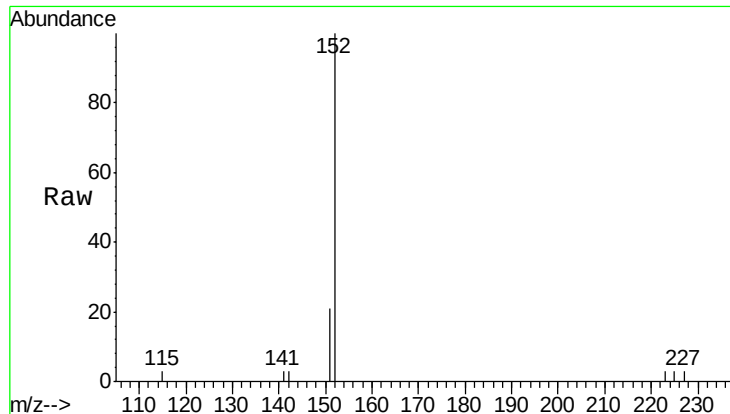
Tot Ion:128 Resp: 16444
Ion Ratio Lower Upper
128 100
129 3.1 2.6 3.8
127 3.9 2.8 4.2



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 11.57 min Scan# 631
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion:225 Resp: 963
Ion Ratio Lower Upper
225 100
223 66.6 53.0 79.6
227 66.4 51.4 77.2

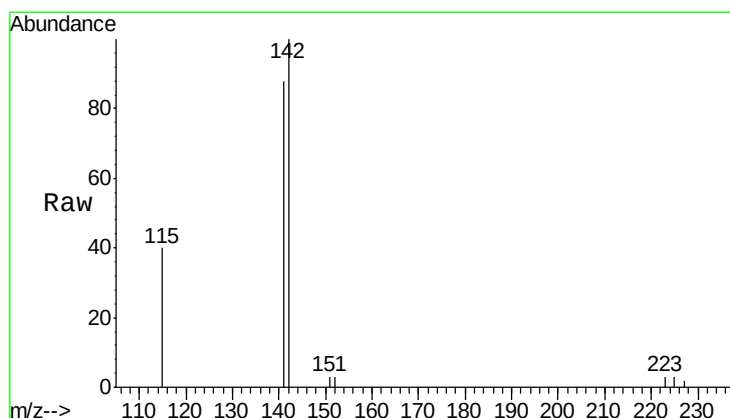
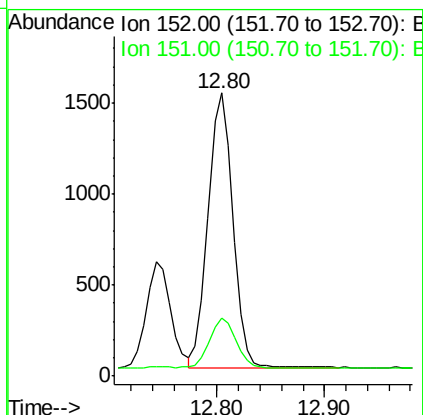
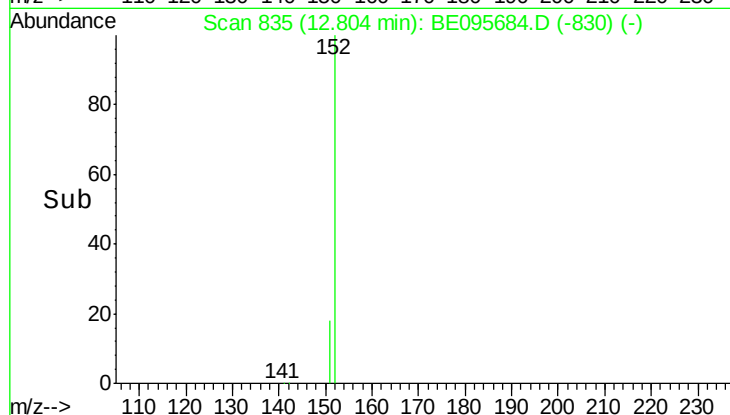




#11
 2-Methylnaphthalene-d10
 Concen: 0.300 ng
 RT: 12.80 min Scan# 835
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

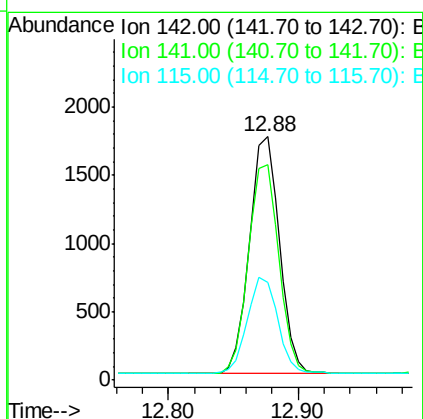
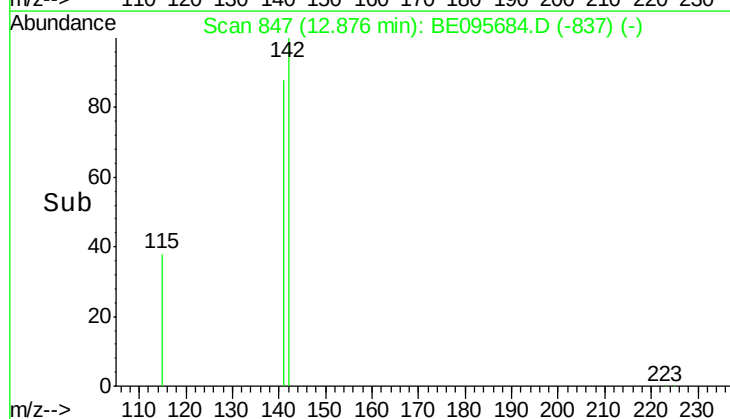
Instrument :
 BNA_E
 ClientSampleId :

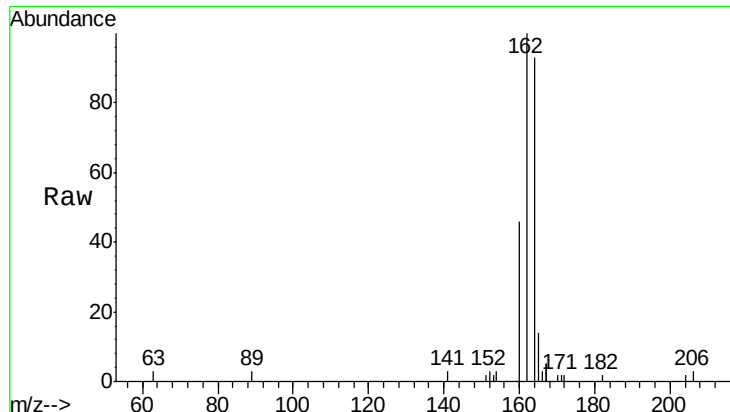
Tot Ion:152 Resp: 2377
 Ion Ratio Lower Upper
 152 100
 151 19.5 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.294 ng
 RT: 12.88 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Tgt Ion:142 Resp: 2770
 Ion Ratio Lower Upper
 142 100
 141 88.5 70.4 105.6
 115 40.3 31.7 47.5

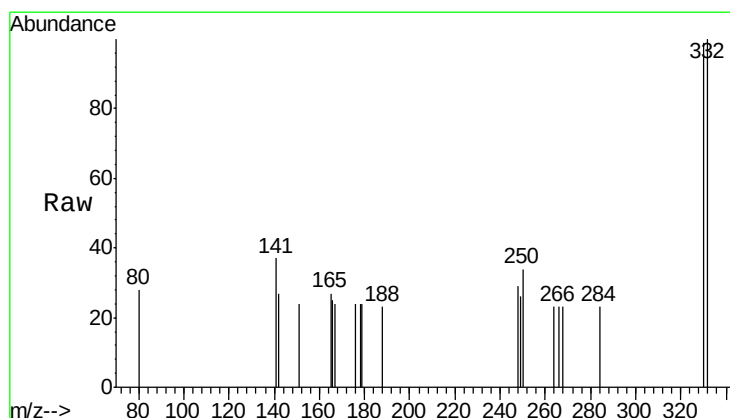
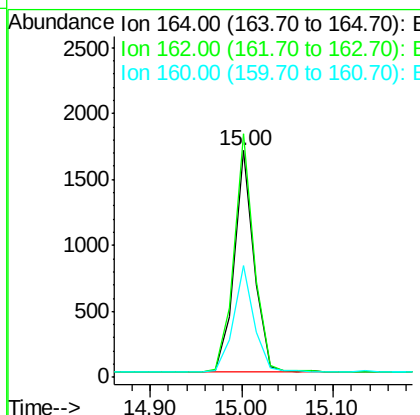
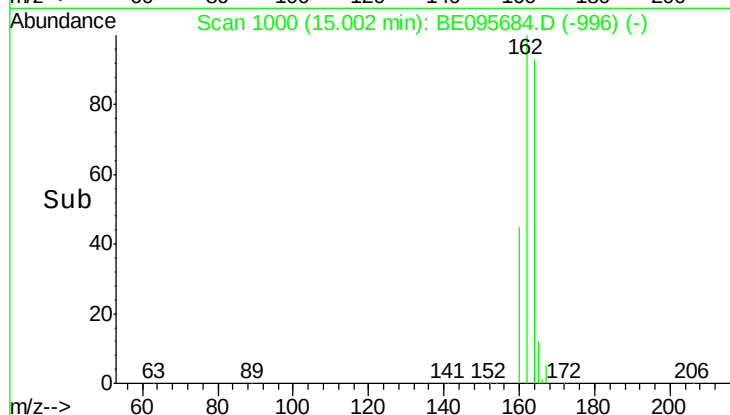




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.00 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

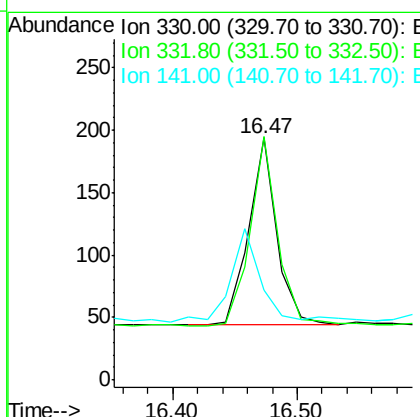
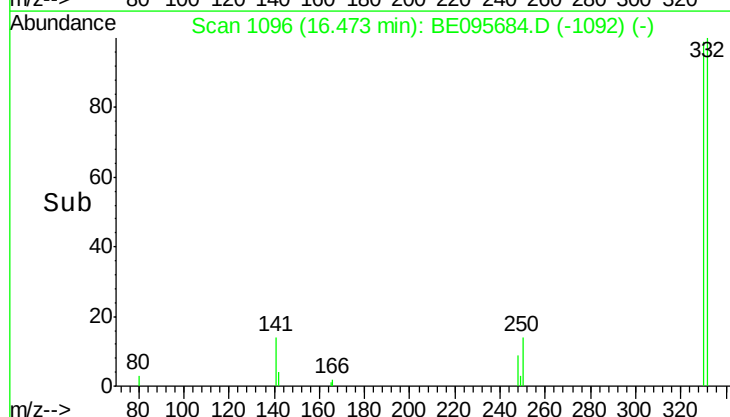
Instrument :
 BNA_E
 ClientSampleId :

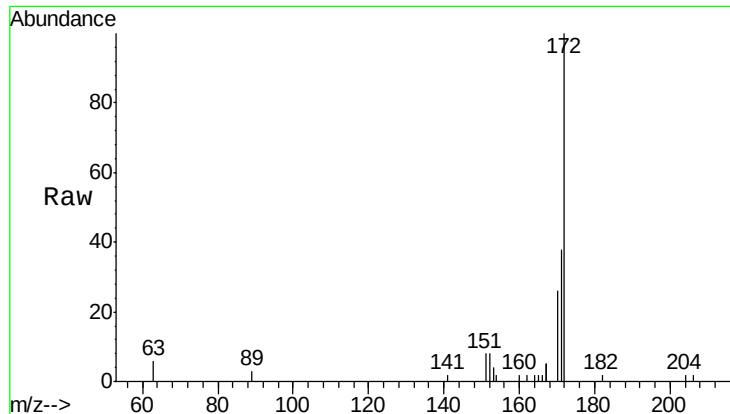
Tot Ion:164 Resp: 2488
 Ion Ratio Lower Upper
 164 100
 162 107.4 83.1 124.7
 160 49.4 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.311 ng
 RT: 16.47 min Scan# 1096
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Tgt Ion:330 Resp: 233
 Ion Ratio Lower Upper
 330 100
 332 102.1 152.7 229.1#
 141 55.8 33.7 50.5#

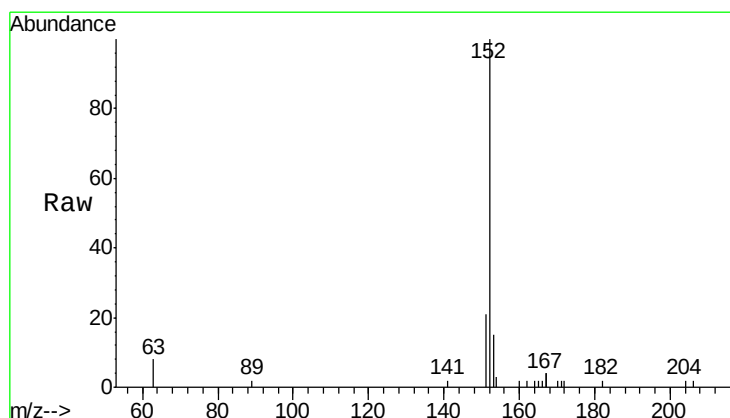
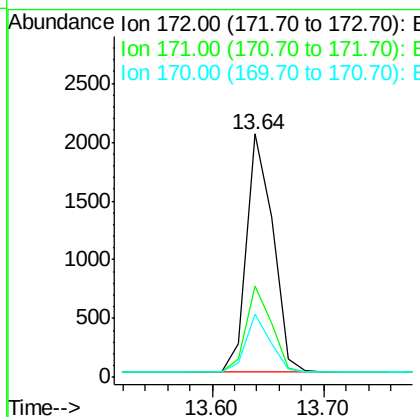
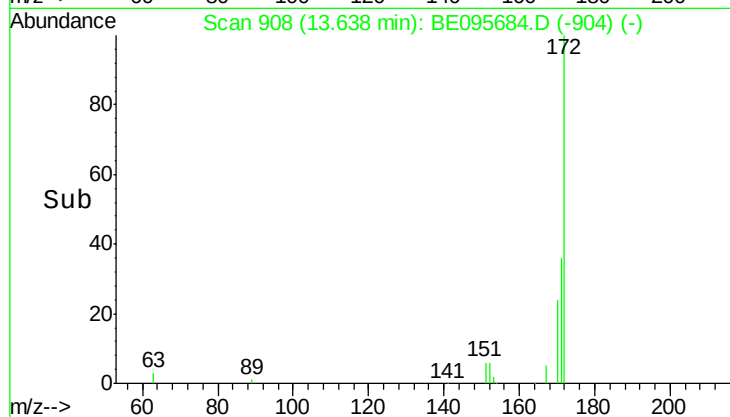




#15
2-Fluorobiphenyl
Concen: 0.297 ng
RT: 13.64 min Scan# 908
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

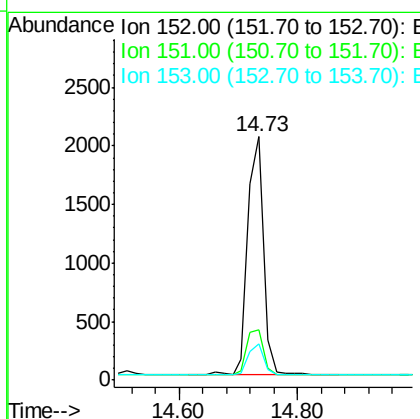
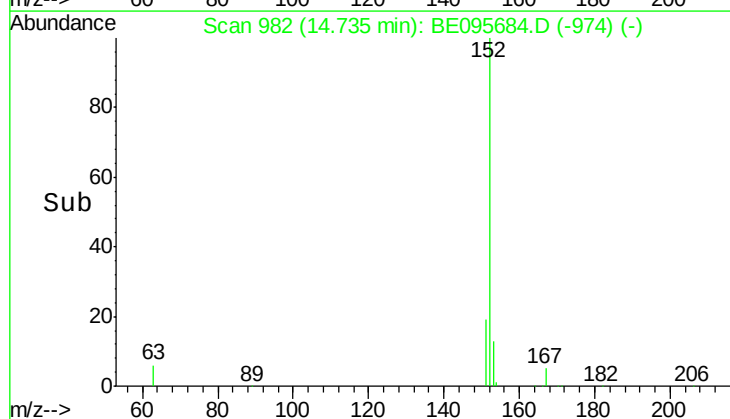
Instrument :
BNA_E
ClientSampleId :

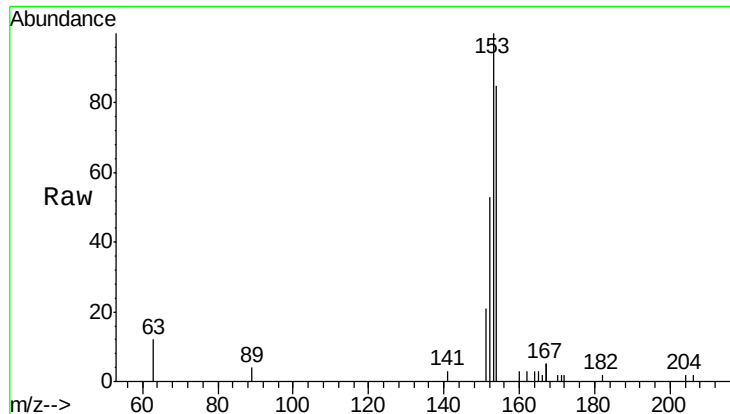
Tot Ion:172 Resp: 3304
Ion Ratio Lower Upper
172 100
171 37.7 29.9 44.9
170 25.7 21.8 32.8



#16
Acenaphthylene
Concen: 0.269 ng
RT: 14.73 min Scan# 982
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion:152 Resp: 3766
Ion Ratio Lower Upper
152 100
151 20.3 15.7 23.5
153 12.8 10.5 15.7

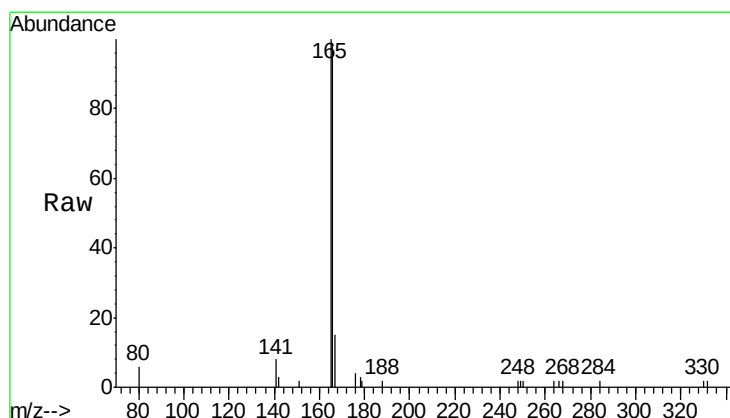
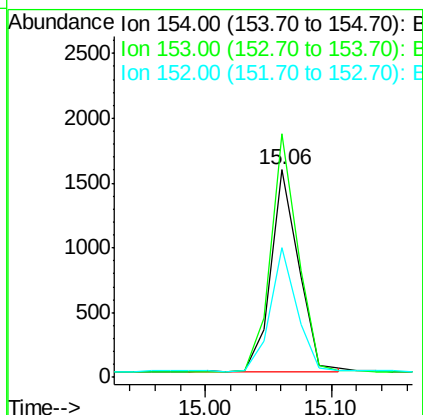
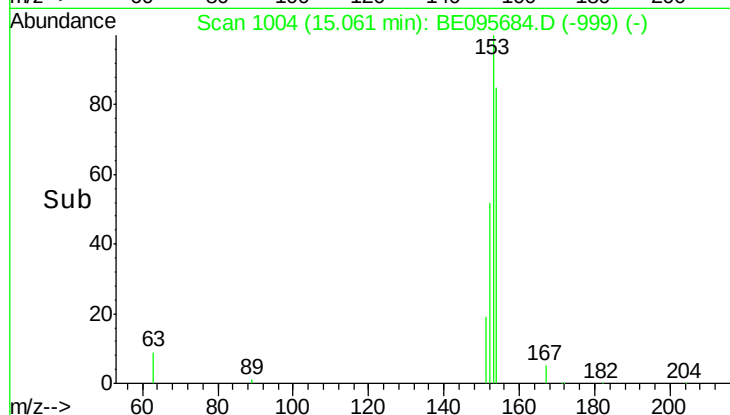




#17
Acenaphthene
Concen: 0.271 ng
RT: 15.06 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

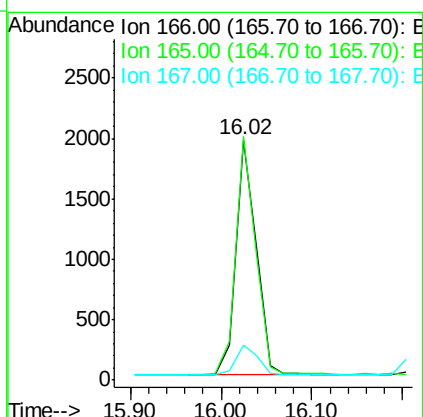
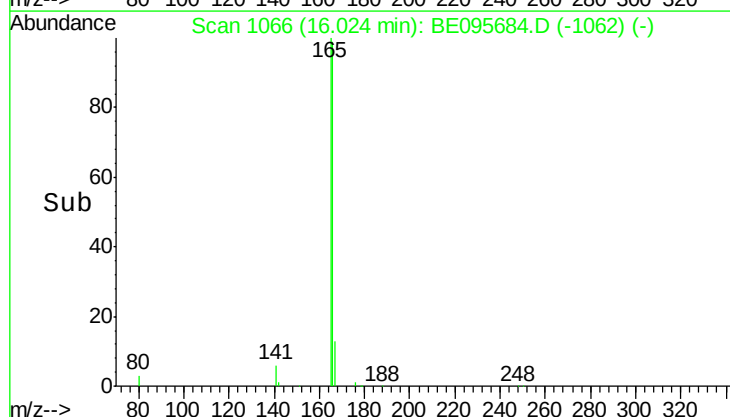
Instrument :
BNA_E
ClientSampleId :

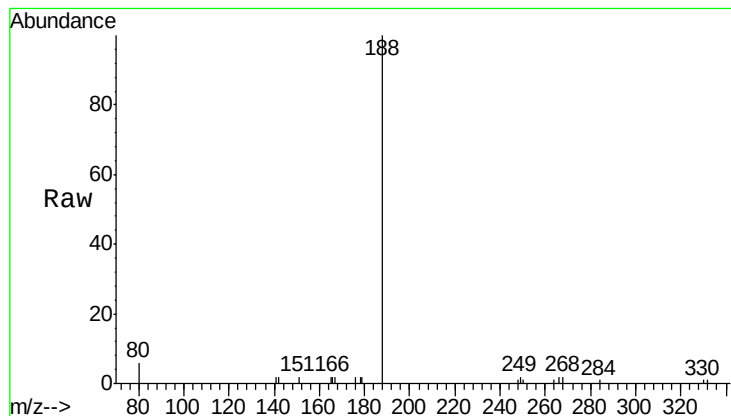
Tot Ion:154 Resp: 2376
Ion Ratio Lower Upper
154 100
153 115.3 89.2 133.8
152 59.4 42.0 63.0



#18
Fluorene
Concen: 0.277 ng
RT: 16.02 min Scan# 1066
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion:166 Resp: 3012
Ion Ratio Lower Upper
166 100
165 99.6 77.8 116.6
167 13.7 42.4 63.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1179

Delta R.T. 0.01 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampleId :

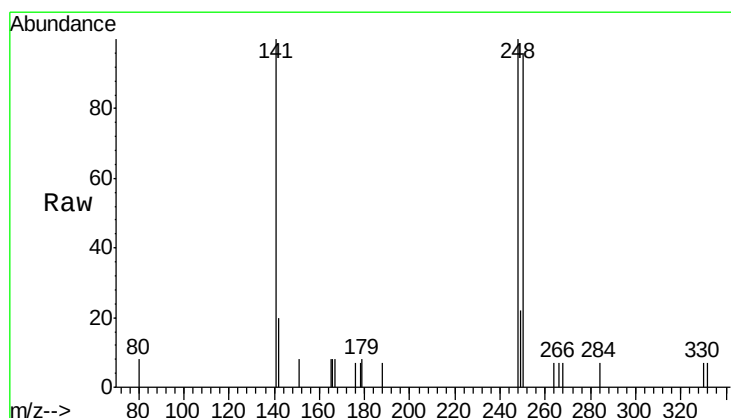
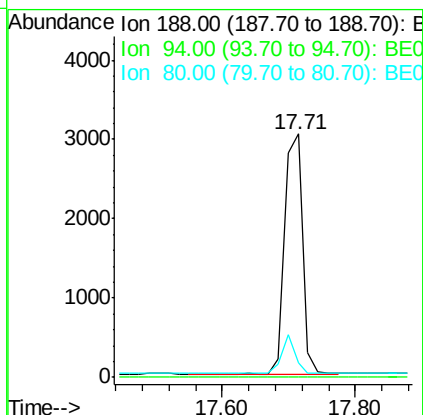
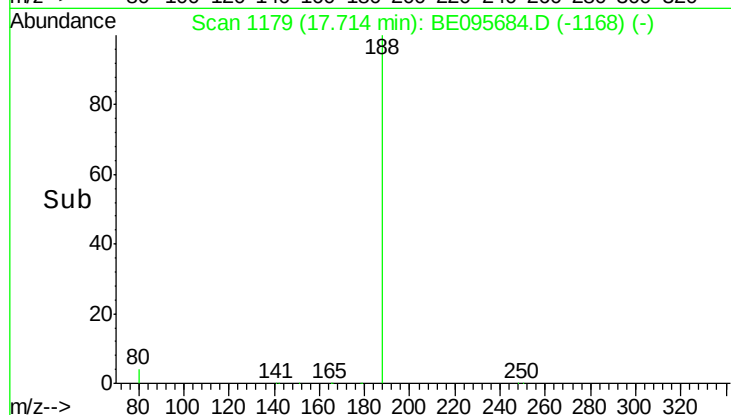
Tot Ion:188 Resp: 5682

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 6.1 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.271 ng

RT: 16.89 min Scan# 1124

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

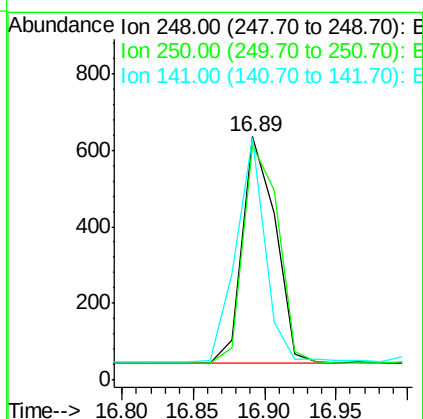
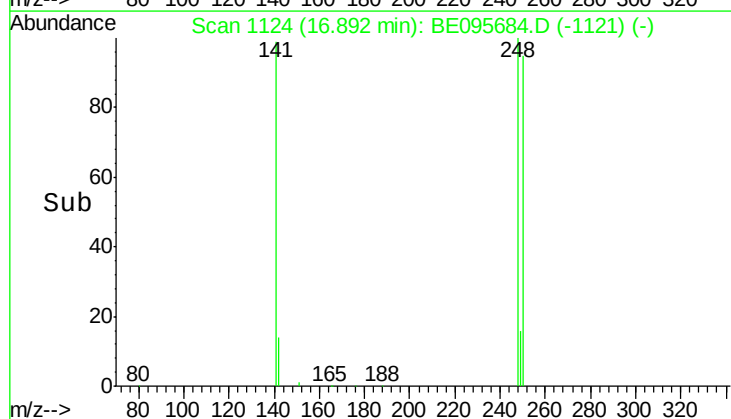
Tgt Ion:248 Resp: 967

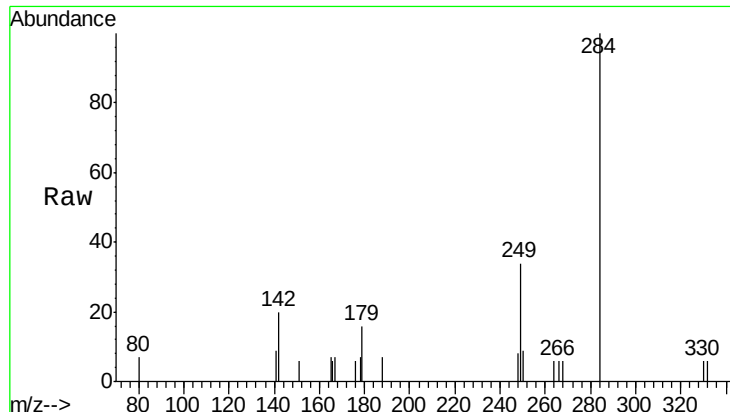
Ion Ratio Lower Upper

248 100

250 96.2 62.7 94.1#

141 99.7 48.2 72.2#

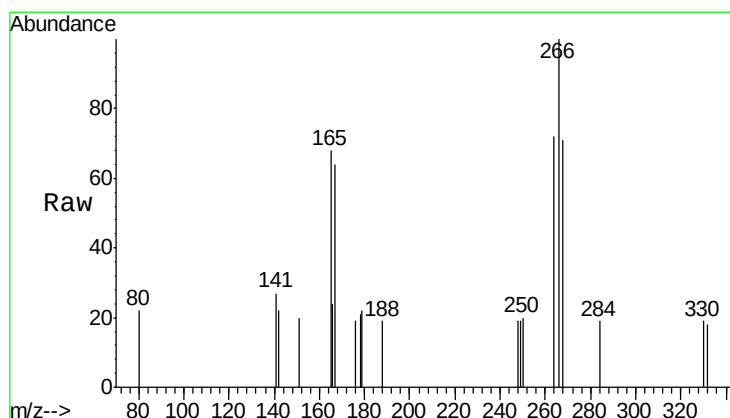
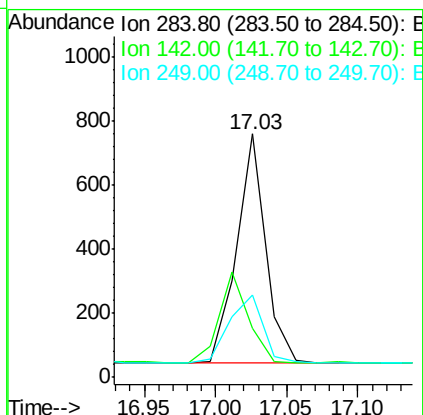
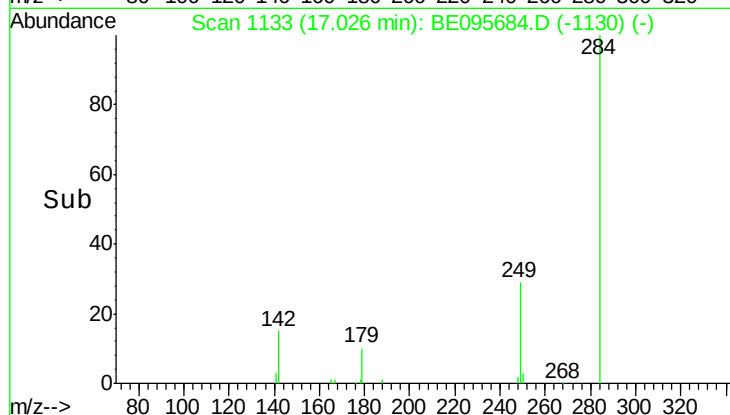




#21
Hexachlorobenzene
Concen: 0.277 ng
RT: 17.03 min Scan# 1133
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

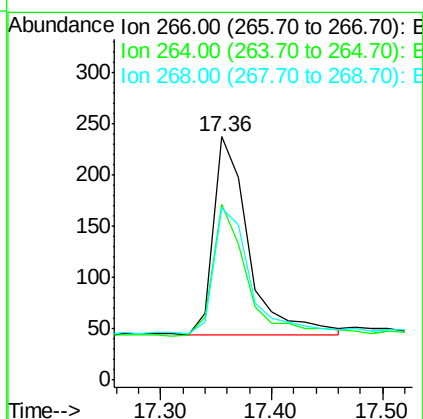
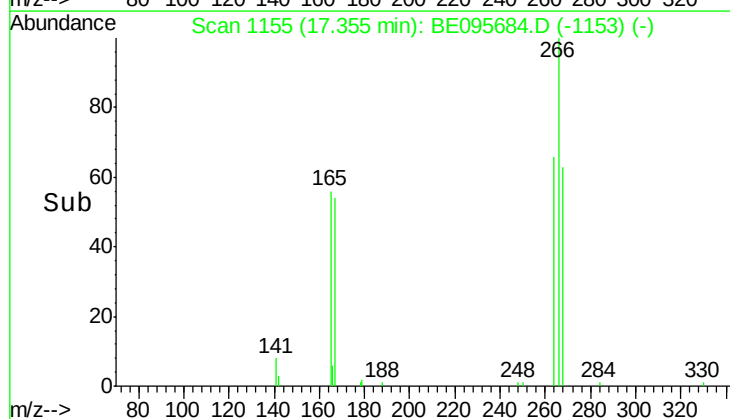
Instrument :
BNA_E
ClientSampleId :

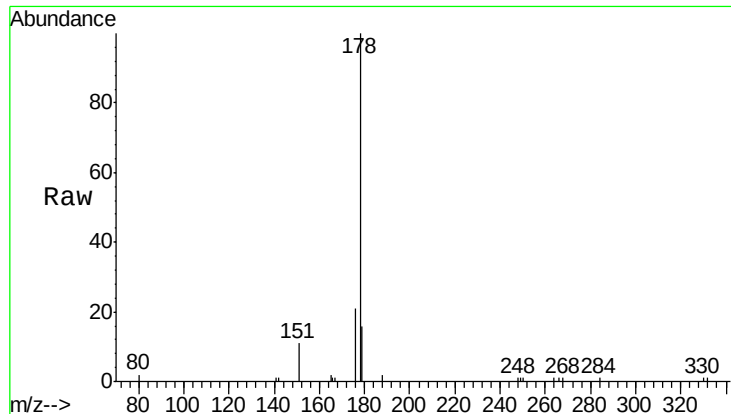
Tot Ion:284 Resp: 1023
Ion Ratio Lower Upper
284 100
142 39.8 22.1 33.1#
249 33.7 34.8 52.2#



#22
Pentachlorophenol
Concen: 0.493 ng
RT: 17.36 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion:266 Resp: 427
Ion Ratio Lower Upper
266 100
264 72.2 72.5 108.7#
268 70.9 73.8 110.6#

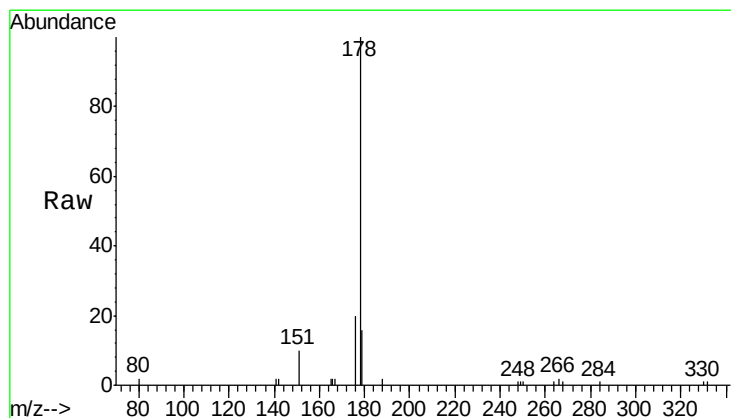
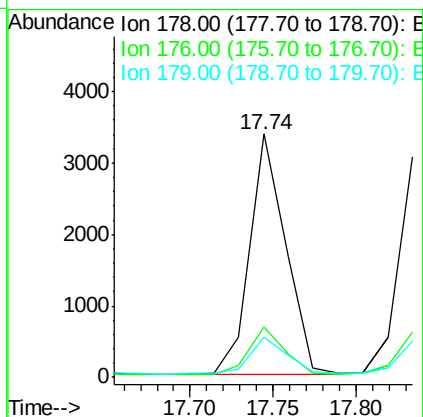
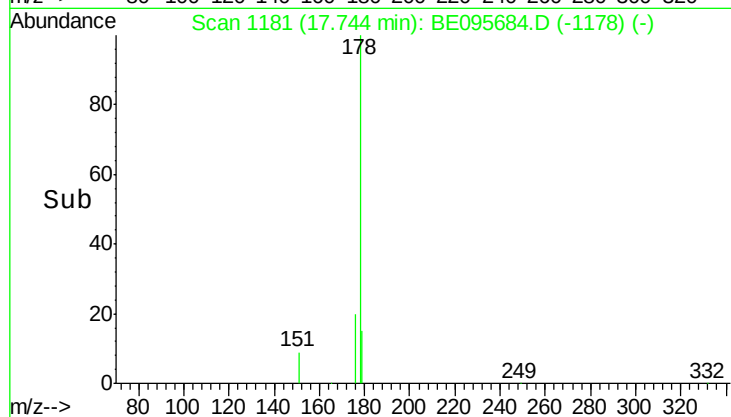




#23
Phenanthrene
Concen: 0.285 ng
RT: 17.74 min Scan# 1181
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

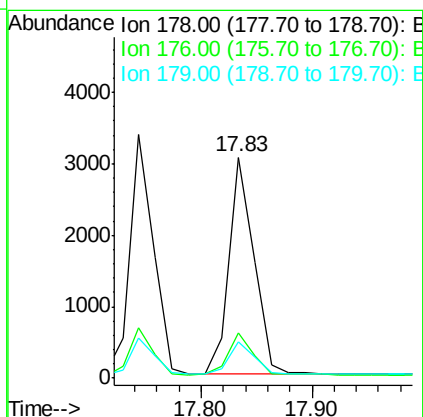
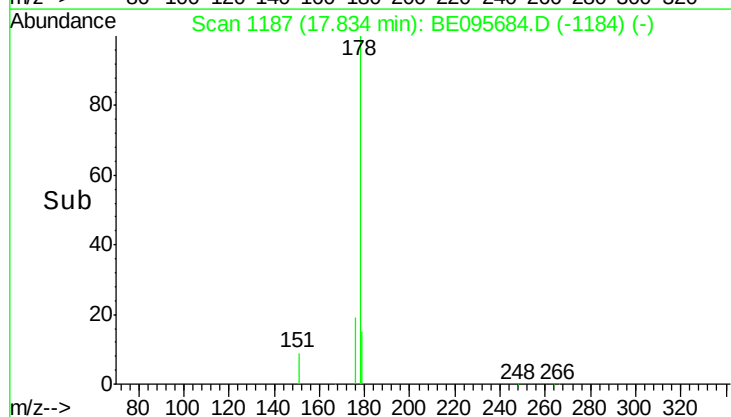
Instrument :
BNA_E
ClientSampleId :

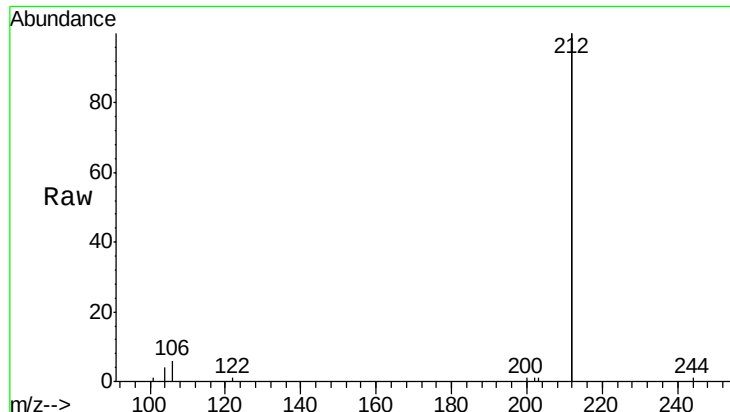
Tot Ion:178 Resp: 5068
Ion Ratio Lower Upper
178 100
176 19.9 15.1 22.7
179 15.3 11.8 17.6



#24
Anthracene
Concen: 0.288 ng
RT: 17.83 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BE095684.D
Acq: 23 Feb 2018 15:43

Tgt Ion:178 Resp: 4698
Ion Ratio Lower Upper
178 100
176 18.9 12.8 19.2
179 15.4 13.0 19.6





#25

Fluoranthene-d10

Concen: 0.310 ng

RT: 19.68 min Scan# 1422

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampleId :

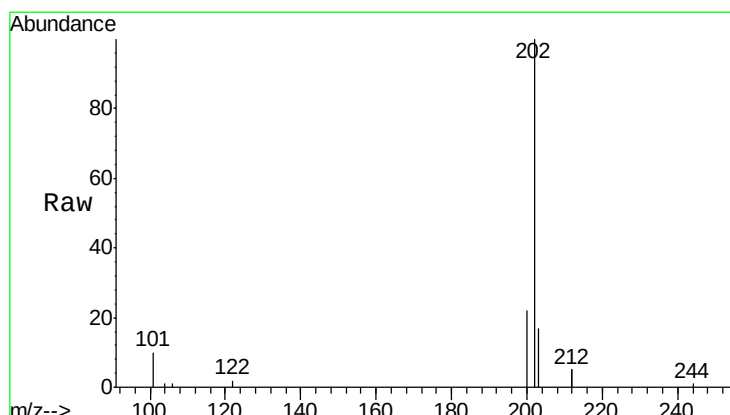
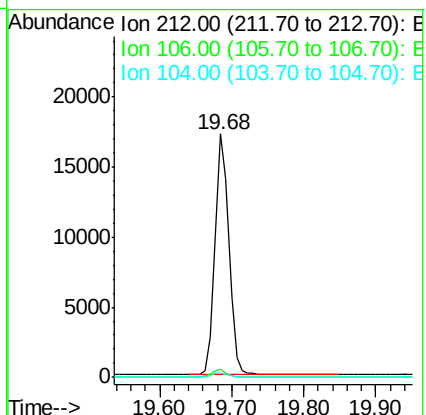
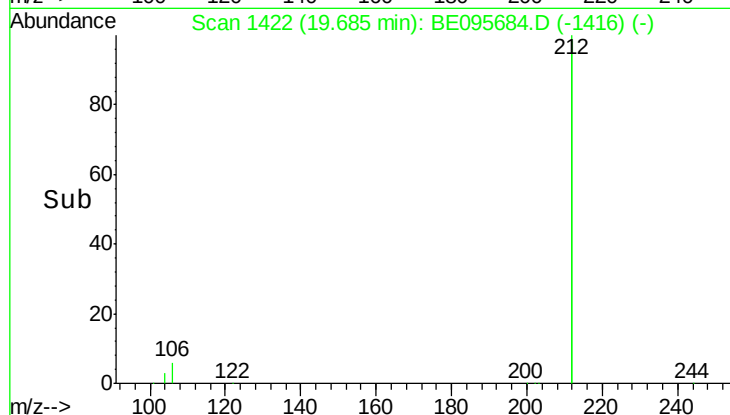
Tot Ion:212 Resp: 23003

Ion Ratio Lower Upper

212 100

106 2.9 2.8 4.2

104 1.6 1.6 2.4



#26

Fluoranthene

Concen: 0.295 ng

RT: 19.71 min Scan# 1426

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

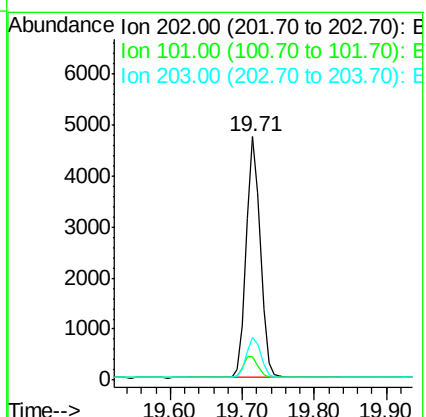
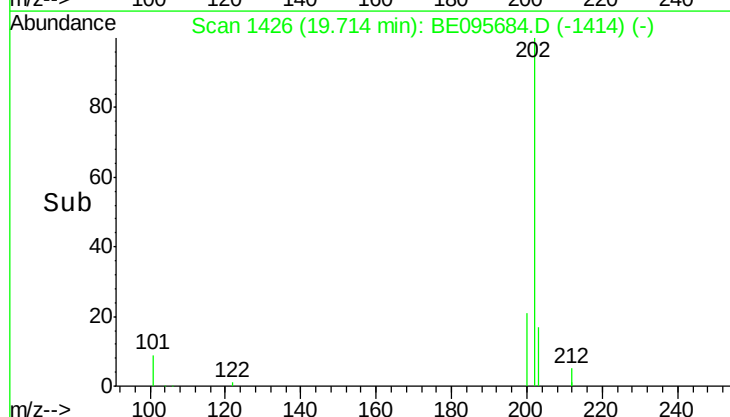
Tgt Ion:202 Resp: 6440

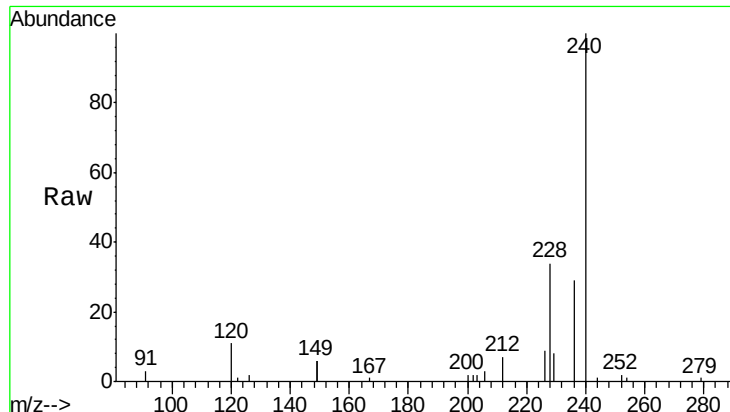
Ion Ratio Lower Upper

202 100

101 9.8 9.8 14.8#

203 17.0 13.7 20.5





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.79 min Scan# 1577

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampled :

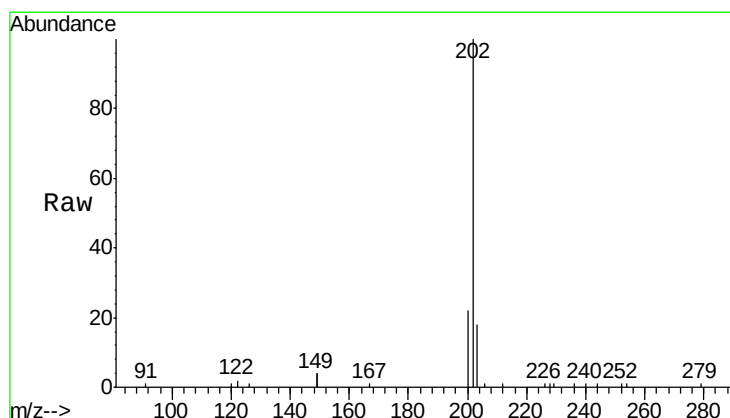
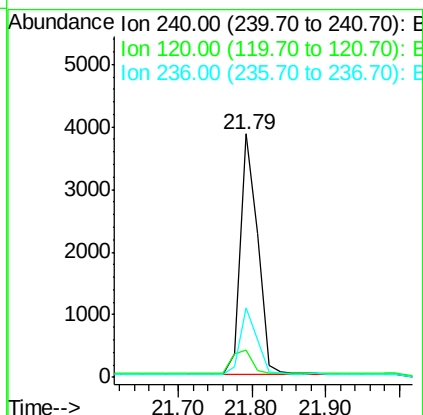
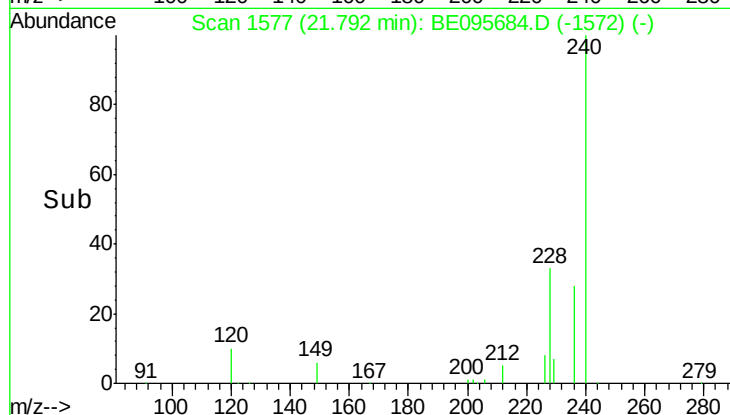
Tot Ion:240 Resp: 6241

Ion Ratio Lower Upper

240 100

120 11.4 5.5 8.3#

236 28.7 20.7 31.1



#28

Pyrene

Concen: 0.289 ng

RT: 20.06 min Scan# 1466

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

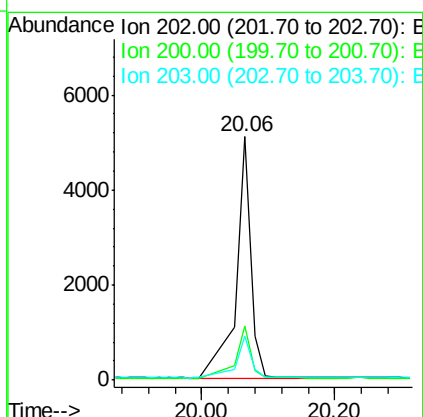
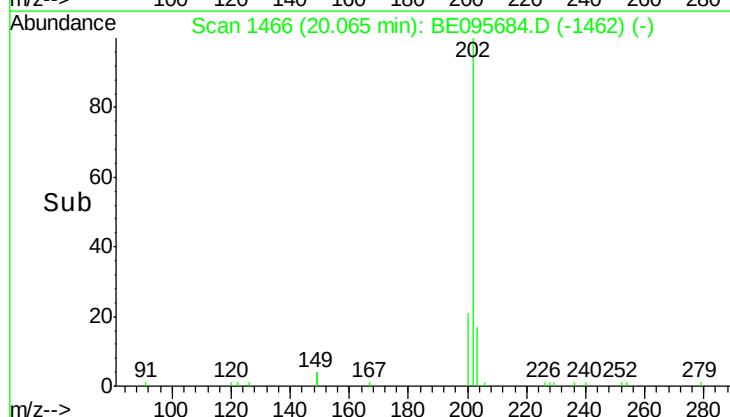
Tgt Ion:202 Resp: 7378

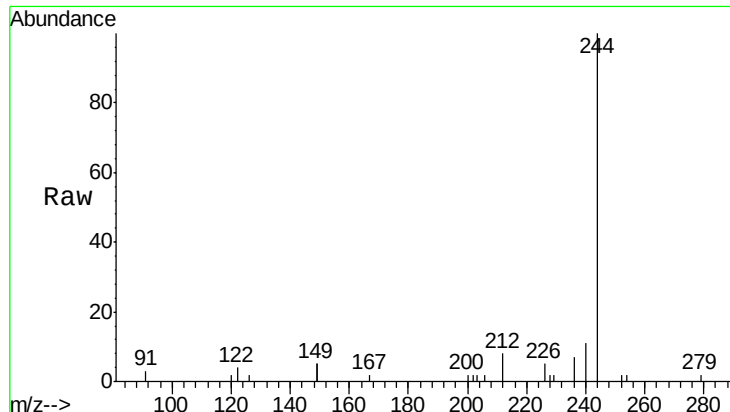
Ion Ratio Lower Upper

202 100

200 20.0 16.6 25.0

203 17.9 13.8 20.8





#29

Terphenyl-d14

Concen: 0.284 ng

RT: 20.25 min Scan# 1478

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampleId :

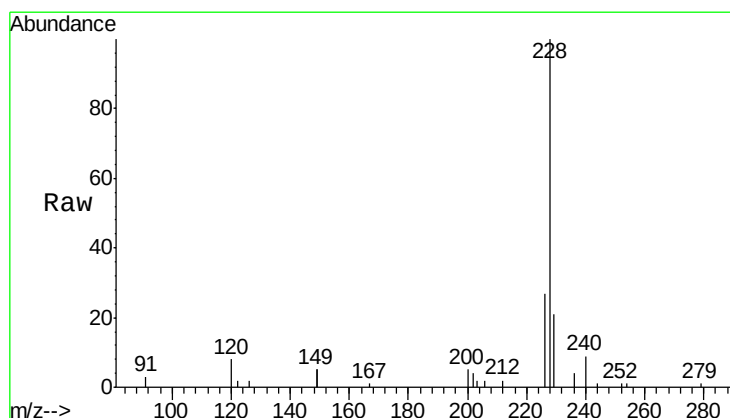
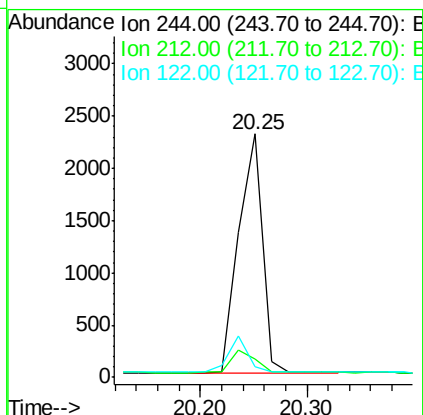
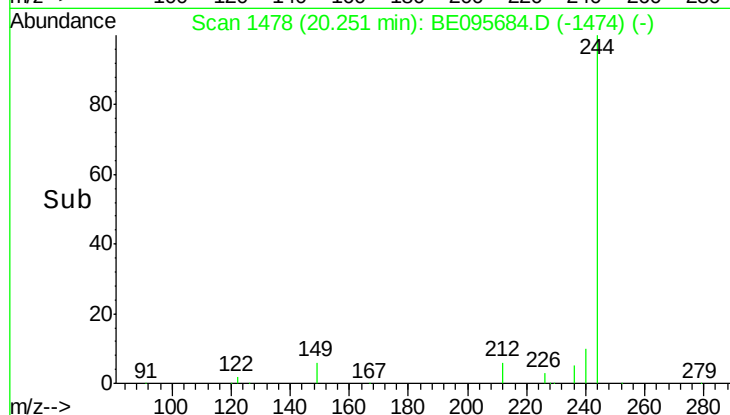
Tot Ion:244 Resp: 3535

Ion Ratio Lower Upper

244 100

212 7.6 25.4 38.0#

122 4.1 8.1 12.1#



#30

Benzo(a)anthracene

Concen: 0.302 ng

RT: 21.78 min Scan# 1576

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

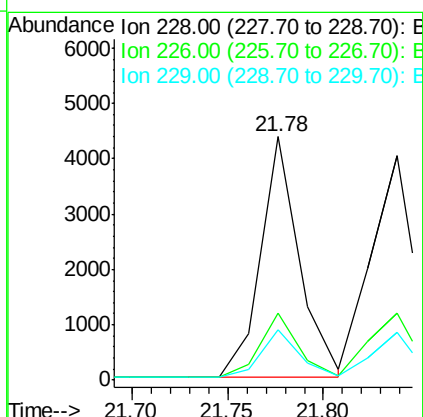
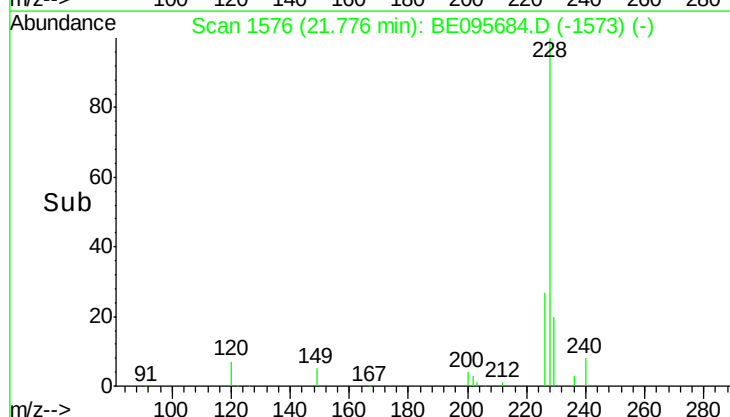
Tgt Ion:228 Resp: 6156

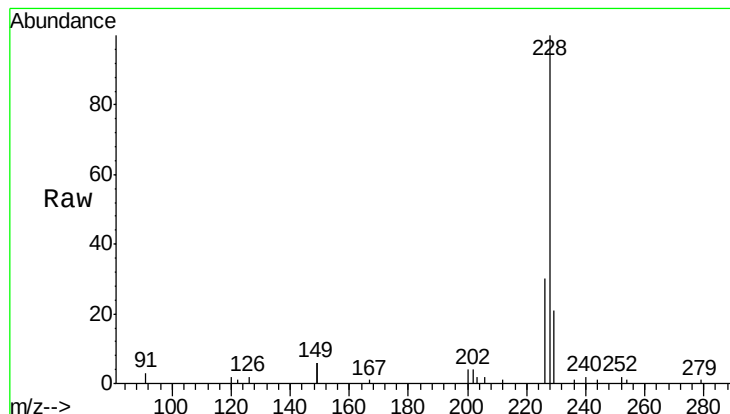
Ion Ratio Lower Upper

228 100

226 27.4 24.0 36.0

229 20.6 16.0 24.0



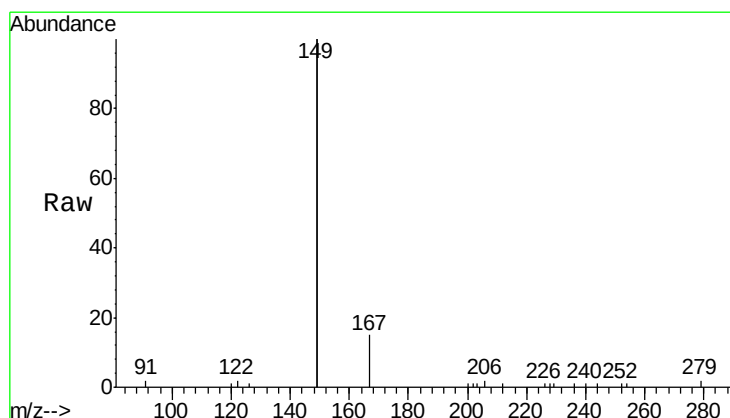
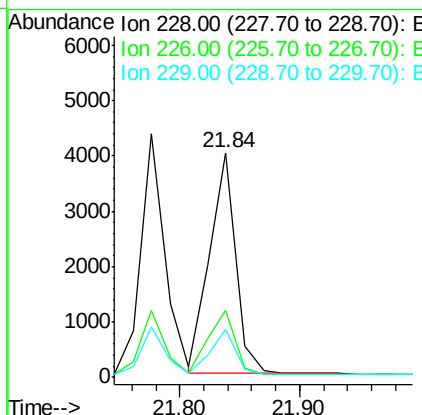
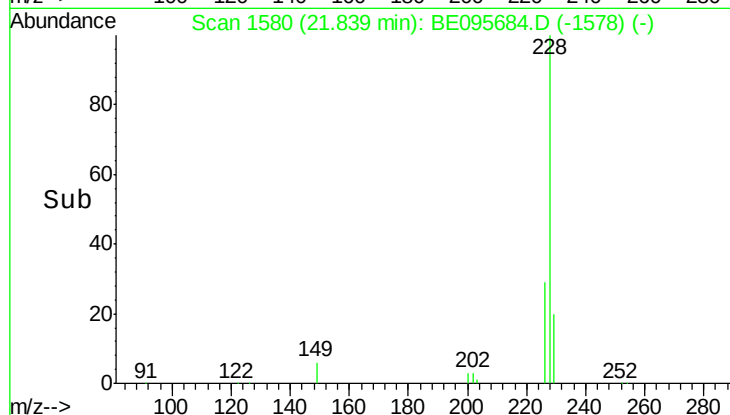


#31
 Chrysene
 Concen: 0.301 ng
 RT: 21.84 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:228 Resp: 6105

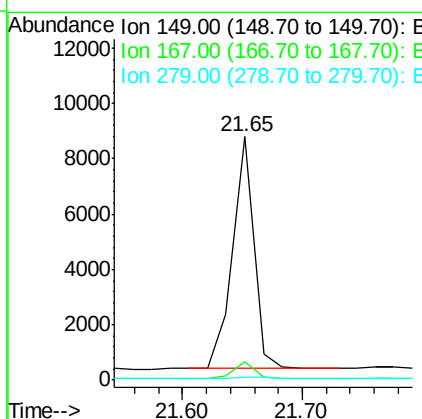
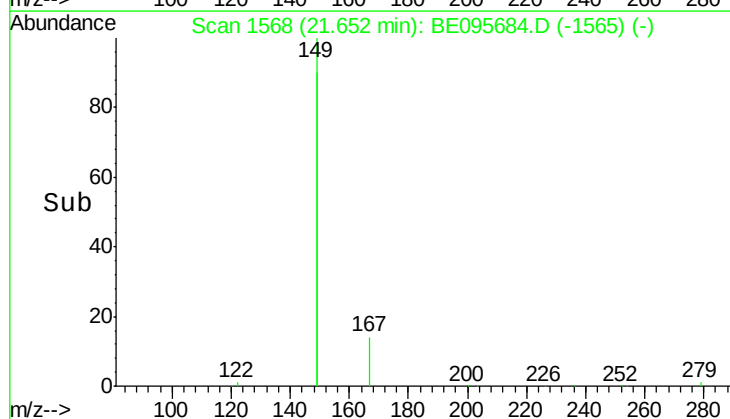
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.0	36.0
229	20.9	16.0	24.0

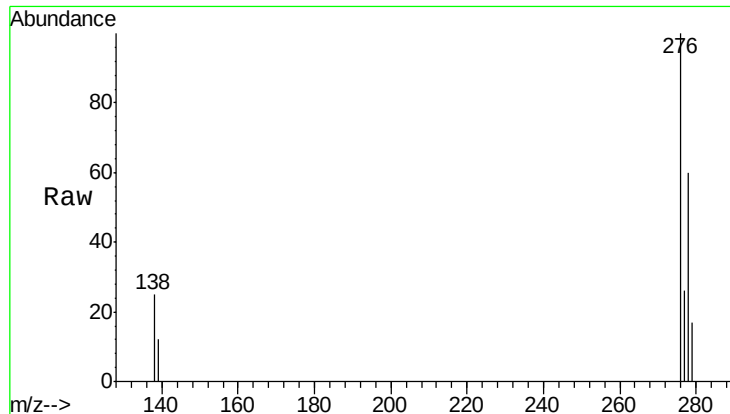


#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.284 ng
 RT: 21.65 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Tgt Ion:149 Resp: 10234

Ion	Ratio	Lower	Upper
149	100		
167	6.9	5.4	8.0
279	0.9	0.7	1.1

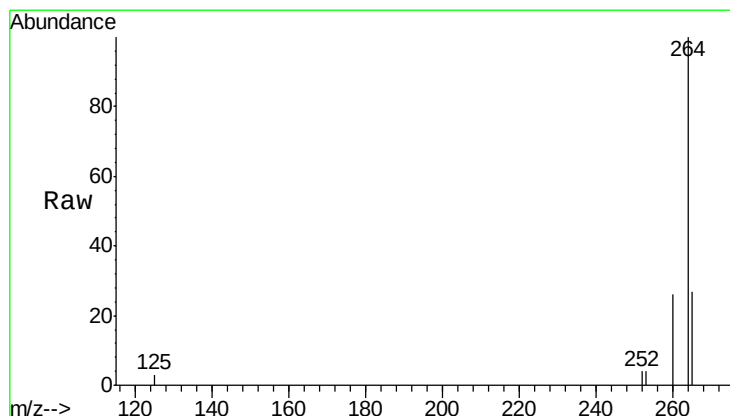
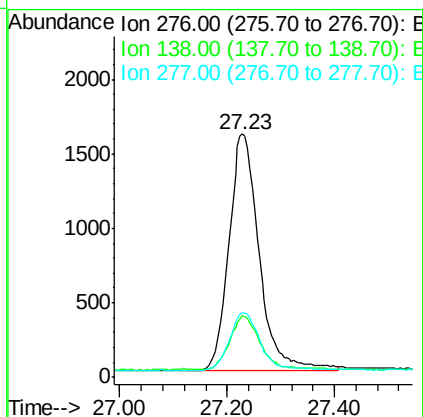
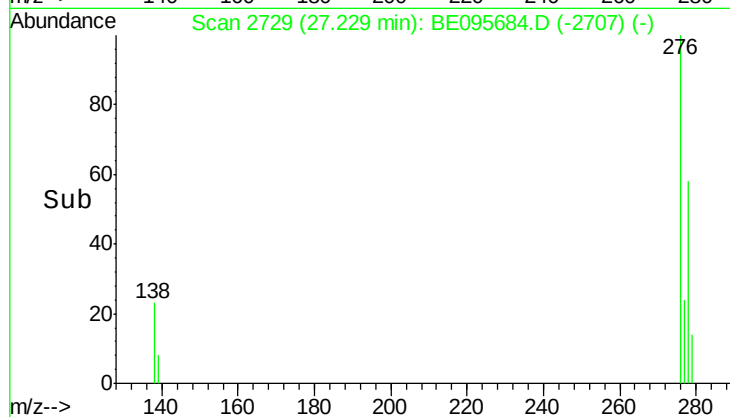




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.318 ng
 RT: 27.23 min Scan# 2729
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

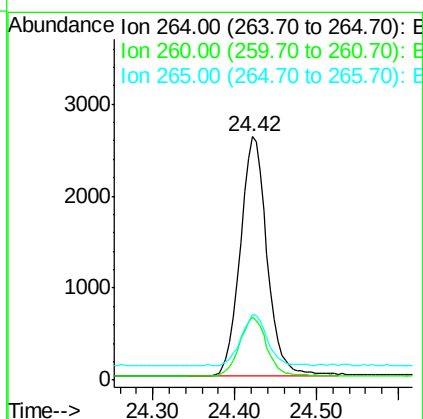
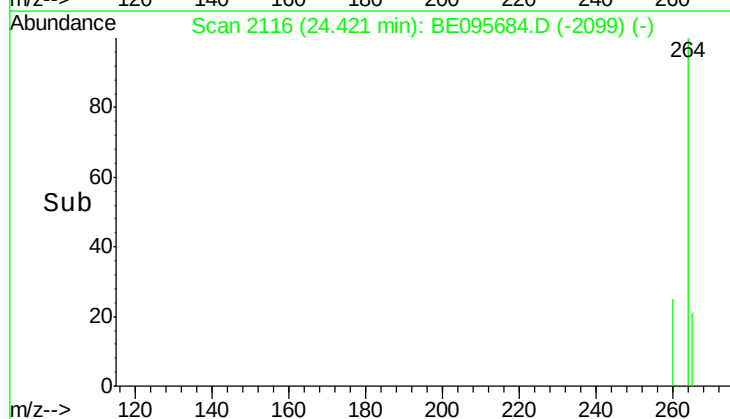
Instrument :
 BNA_E
 ClientSampleId :

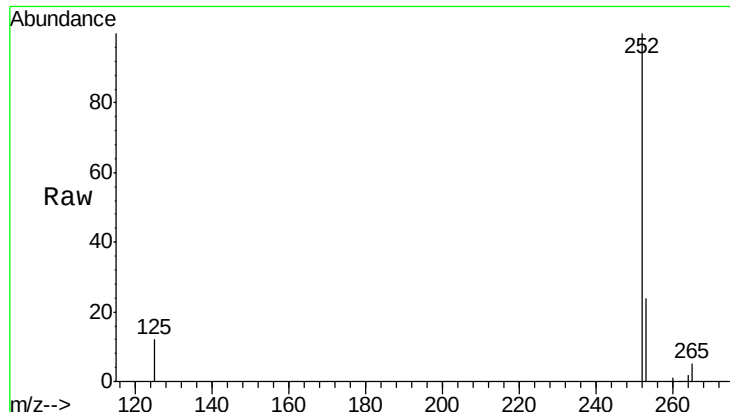
Tot Ion:276 Resp: 6230
 Ion Ratio Lower Upper
 276 100
 138 21.9 22.5 33.7#
 277 24.3 19.9 29.9



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.42 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Tgt Ion:264 Resp: 5873
 Ion Ratio Lower Upper
 264 100
 260 26.2 20.5 30.7
 265 26.8 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.285 ng

RT: 23.61 min Scan# 1937

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampleId :

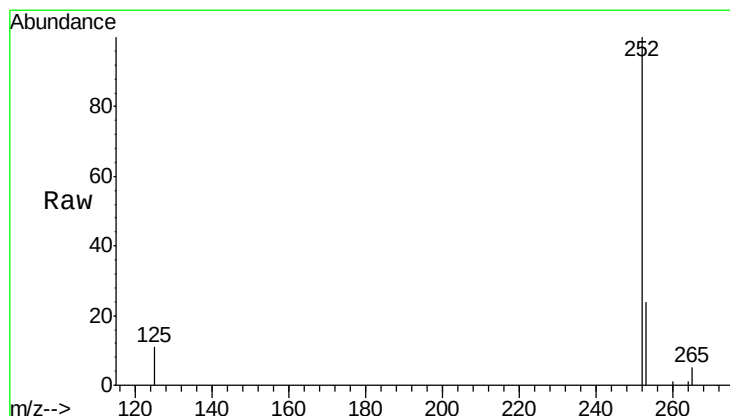
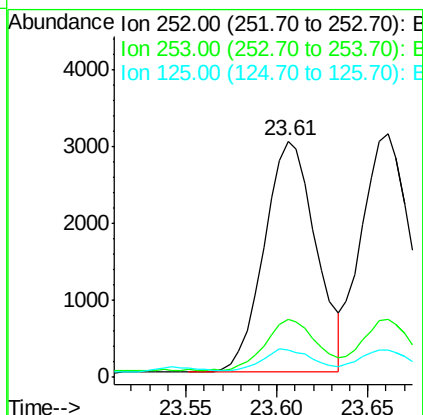
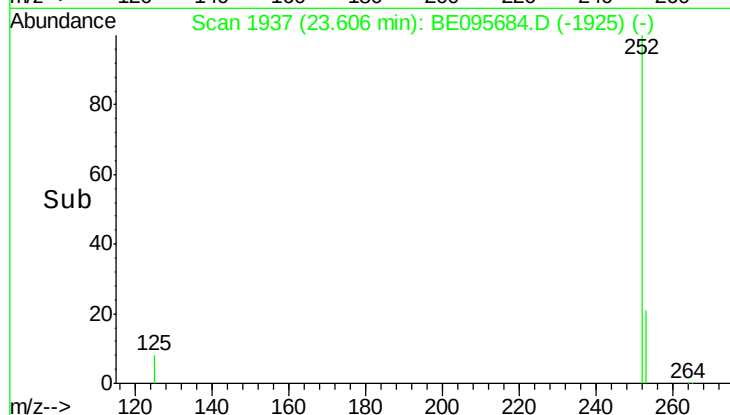
Tot Ion:252 Resp: 5972

Ion Ratio Lower Upper

252 100

253 24.3 20.0 30.0

125 11.6 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.288 ng

RT: 23.66 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

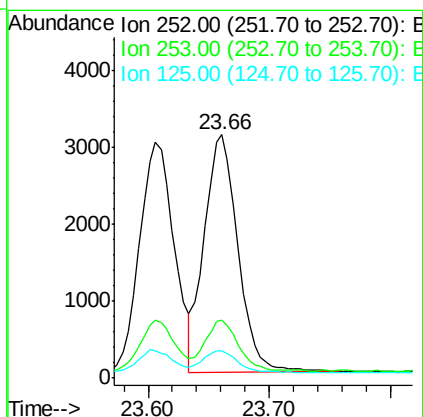
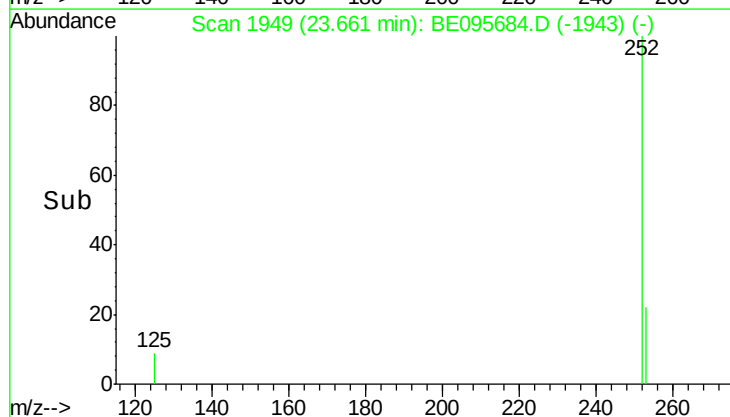
Tgt Ion:252 Resp: 5993

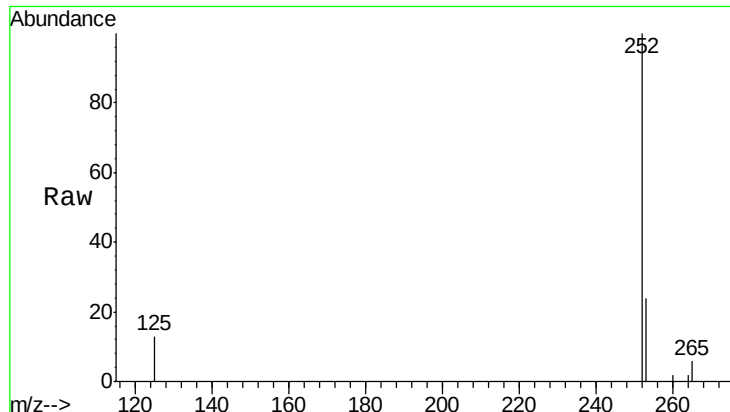
Ion Ratio Lower Upper

252 100

253 23.8 16.0 24.0

125 11.2 8.0 12.0





#37

Benzo(a)pyrene

Concen: 0.301 ng

RT: 24.30 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

Instrument :

BNA_E

ClientSampleId :

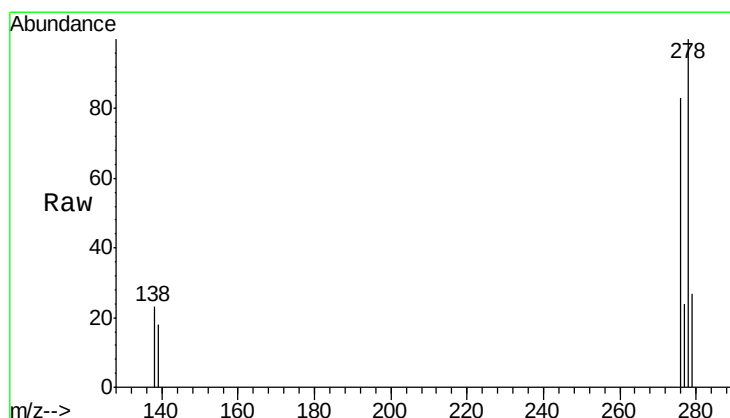
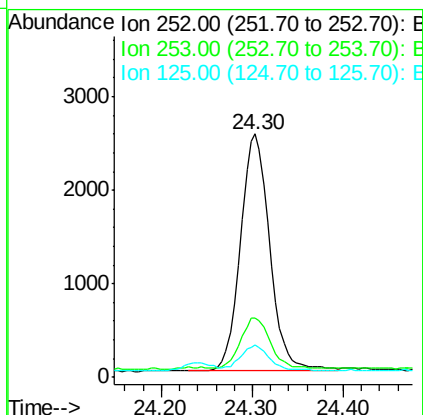
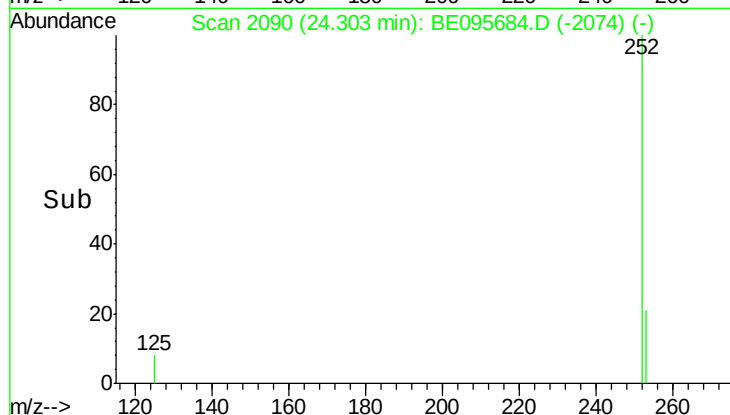
Tot Ion:252 Resp: 5680

Ion Ratio Lower Upper

252 100

253 24.2 16.0 24.0#

125 13.4 12.0 18.0



#38

Dibenzo(a,h)anthracene

Concen: 0.295 ng

RT: 27.25 min Scan# 2734

Delta R.T. 0.00 min

Lab File: BE095684.D

Acq: 23 Feb 2018 15:43

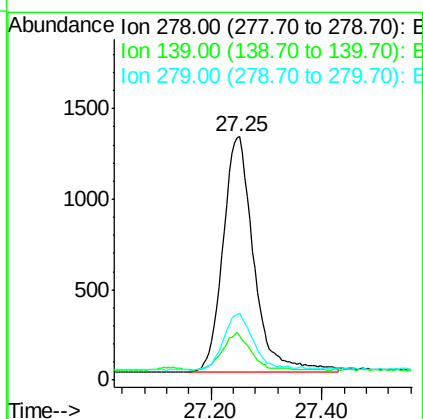
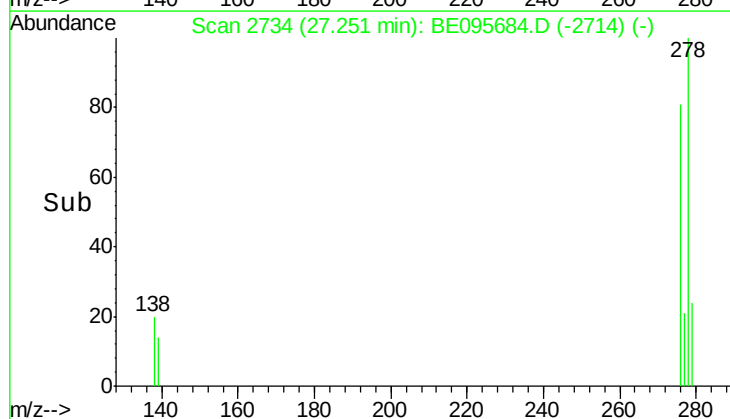
Tgt Ion:278 Resp: 4956

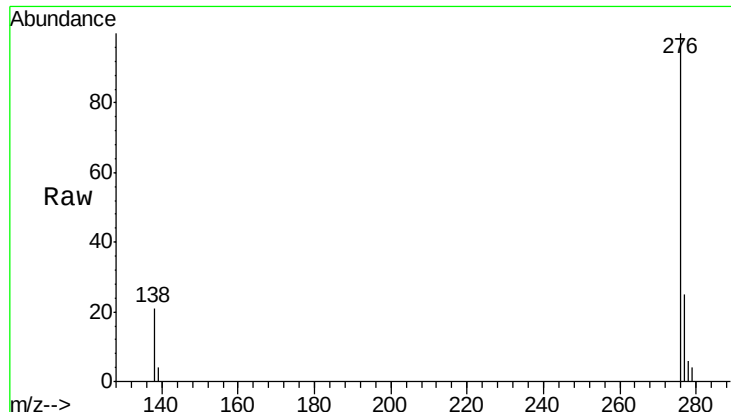
Ion Ratio Lower Upper

278 100

139 18.1 16.0 24.0

279 27.5 20.0 30.0





#39
 Benzo(a,h,i)perylene
 Concen: 0.294 ng
 RT: 28.10 min Scan# 2921
 Delta R.T. 0.00 min
 Lab File: BE095684.D
 Acq: 23 Feb 2018 15:43

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:276 Resp: 5291
 Ion Ratio Lower Upper
 276 100
 277 25.0 16.0 24.0#
 138 21.1 20.0 30.0

