

Data Path : Z:\HPCHEM1\BNA E\Data\BE022318\
 Data File : BE095673.D
 Acq On : 23 Feb 2018 9:06
 Operator : SJ/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

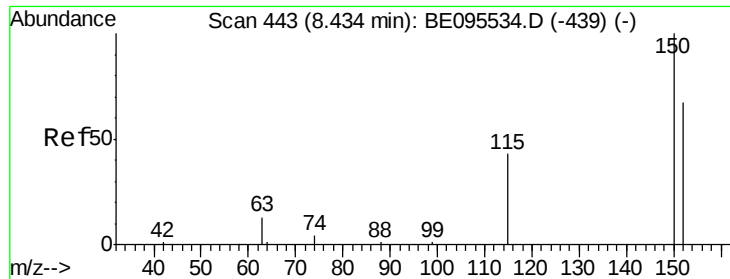
Quant Time: Feb 23 11:05:56 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 10:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.424	152	1127	0.40	ng	0.00
7) Naphthalene-d8	11.260	136	4486	0.40	ng	-0.02
13) Acenaphthene-d10	15.001	164	2487	0.40	ng	0.00
19) Phenanthrene-d10	17.714	188	5622	0.40	ng	0.01
27) Chrysene-d12	21.791	240	5777	0.40	ng	0.00
34) Perylene-d12	24.425	264	5191	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.919	112	570	0.17	ng	0.00
5) Phenol-d6	7.556	99	794	0.17	ng	0.00
8) Nitrobenzene-d5	9.531	82	92	0.02	ng	-0.08
11) 2-Methylnaphthalene-d10	12.804	152	1490	0.20	ng	0.00
14) 2,4,6-Tribromophenol	16.472	330	145	0.13	ng	0.00
15) 2-Fluorobiphenyl	13.638	172	2279	0.21	ng	0.00
25) Fluoranthene-d10	19.687	212	14216	0.19	ng	0.00
29) Terphenyl-d14	20.251	244	2214	0.18	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.640	88	374	0.20	ng	# 91
3) n-Nitrosodimethylamine	4.006	42	393	0.17	ng	# 76
6) bis(2-Chloroethyl)ether	7.820	93	845	0.20	ng	# 93
9) Naphthalene	11.311	128	10294	0.20	ng	# 98
10) Hexachlorobutadiene	11.571	225	608	0.22	ng	# 97
12) 2-Methylnaphthalene	12.876	142	1753	0.20	ng	# 96
16) Acenaphthylene	14.735	152	2691	0.19	ng	# 98
17) Acenaphthene	15.061	154	1696	0.19	ng	# 93
18) Fluorene	16.024	166	2114	0.19	ng	# 76
20) 4-Bromophenyl-phenylether	16.891	248	686	0.20	ng	# 73
21) Hexachlorobenzene	17.026	284	743	0.21	ng	# 79
22) Pentachlorophenol	17.370	266	120	0.12	ng	# 89
23) Phenanthrene	17.743	178	3500	0.20	ng	# 99
24) Anthracene	17.833	178	3097	0.19	ng	# 95
26) Fluoranthene	19.716	202	4171	0.19	ng	# 97
28) Pyrene	20.064	202	4238	0.17	ng	# 92
30) Benzo(a)anthracene	21.776	228	3689	0.19	ng	# 98
31) Chrysene	21.838	228	3732	0.20	ng	# 98
32) Bis(2-ethylhexyl)phtha...	21.651	149	5991	0.14	ng	# 98
33) Indeno(1,2,3-cd)pyrene	27.230	276	3453	0.19	ng	# 93
35) Benzo(b)fluoranthene	23.606	252	3631	0.21	ng	# 92
36) Benzo(k)fluoranthene	23.660	252	3593	0.20	ng	# 90
37) Benzo(a)pyrene	24.302	252	3201	0.19	ng	# 90
38) Dibenzo(a,h)anthracene	27.253	278	2717	0.19	ng	# 92
39) Benzo(g,h,i)perylene	28.100	276	3089	0.20	ng	# 93

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



#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.424 min Scan# 44

Delta R.T. -0.009 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

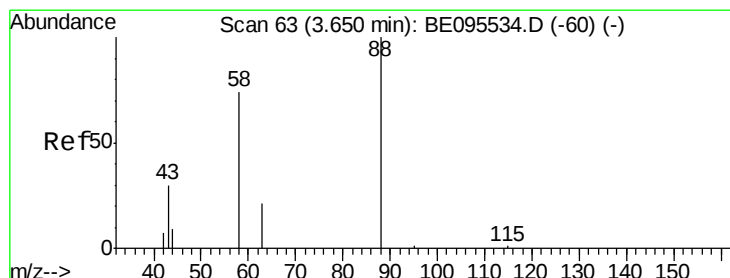
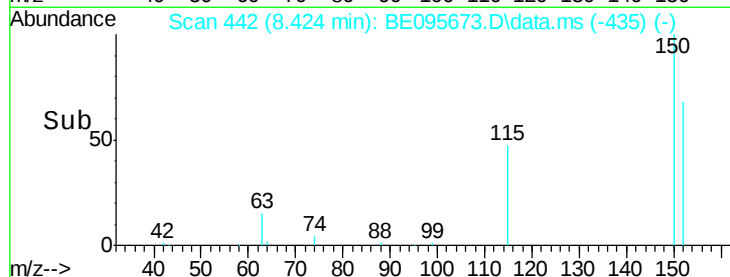
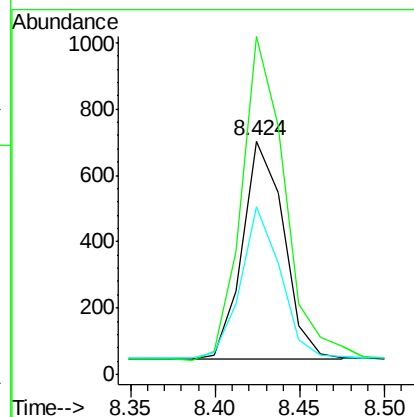
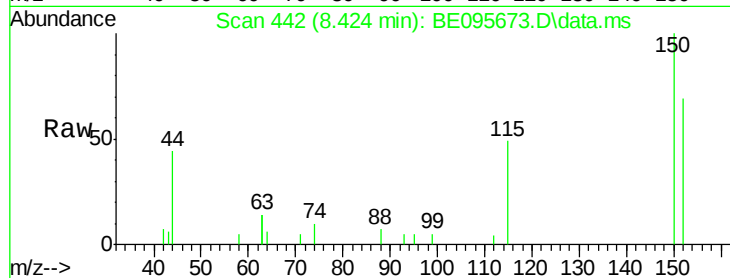
Tot Ion:152 Resp: 1127

Ion Ratio Lower Upper

152 100

150 144.7 117.2 175.8

115 71.6 57.0 85.6



#2

1,4-Dioxane

Concen: 0.20 ng

RT: 3.640 min Scan# 62

Delta R.T. -0.009 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

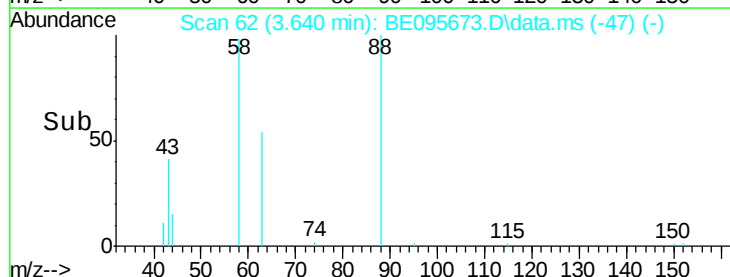
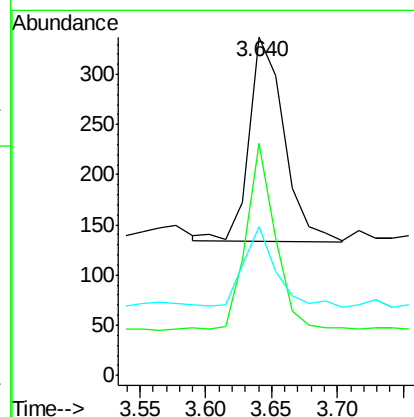
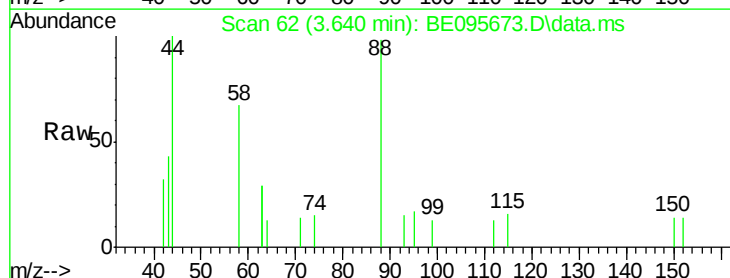
Tgt Ion: 88 Resp: 374

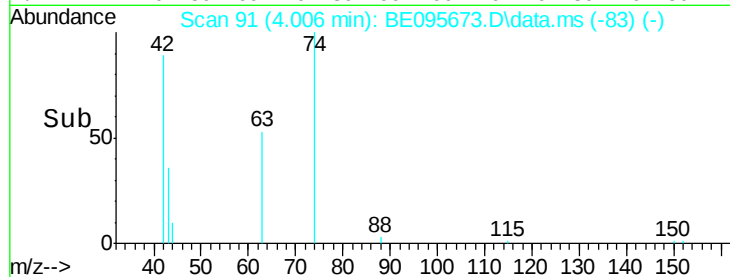
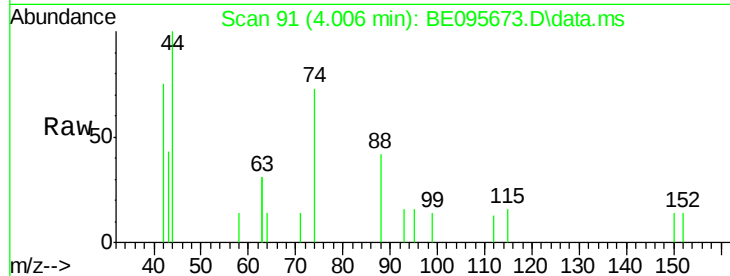
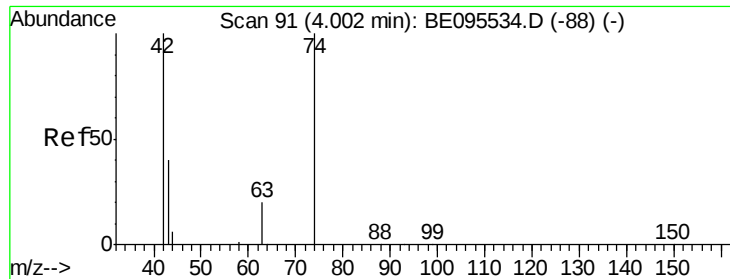
Ion Ratio Lower Upper

88 100

58 78.1 63.2 94.8

43 36.6 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 4.006 min Scan# 91

Delta R.T. 0.004 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

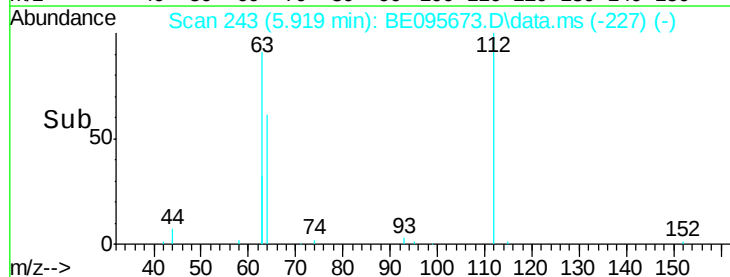
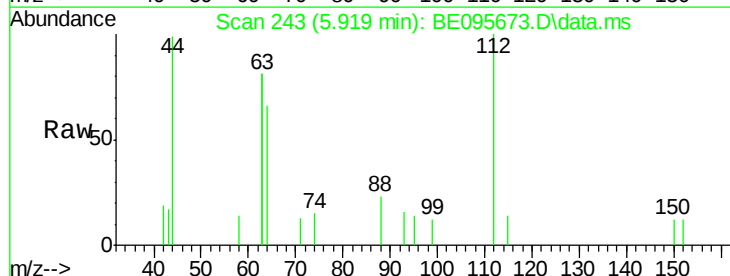
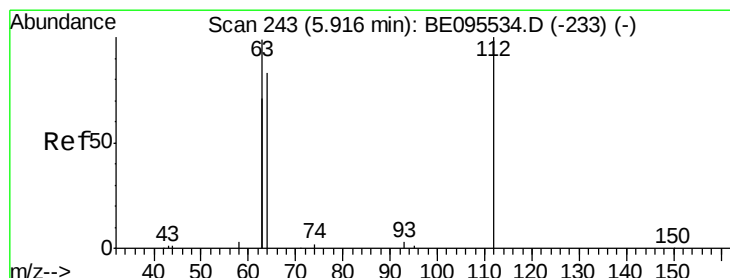
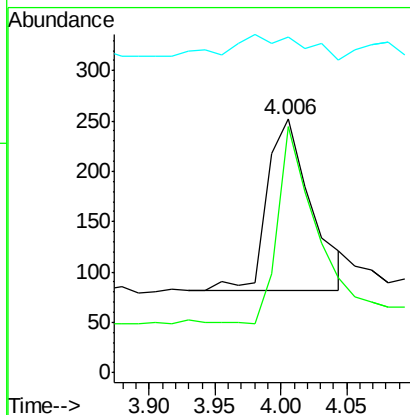
Tot Ion: 42 Resp: 393

Ion Ratio Lower Upper

42 100

74 94.9 96.0 144.0#

44 0.0 12.0 18.0#



#4

2-Fluorophenol

Concen: 0.17 ng

RT: 5.919 min Scan# 243

Delta R.T. 0.004 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

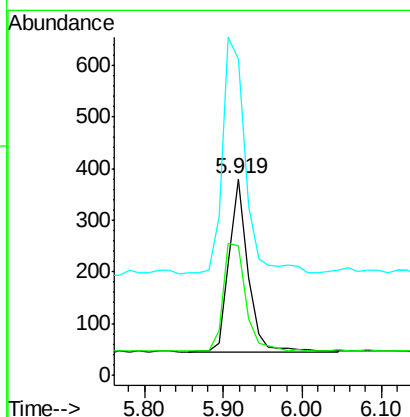
Tgt Ion: 112 Resp: 570

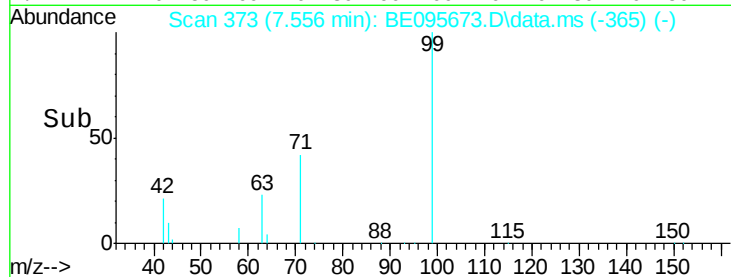
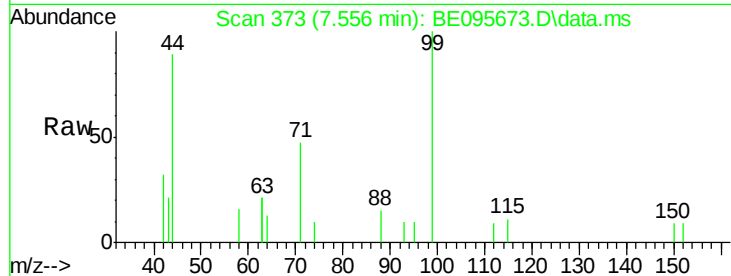
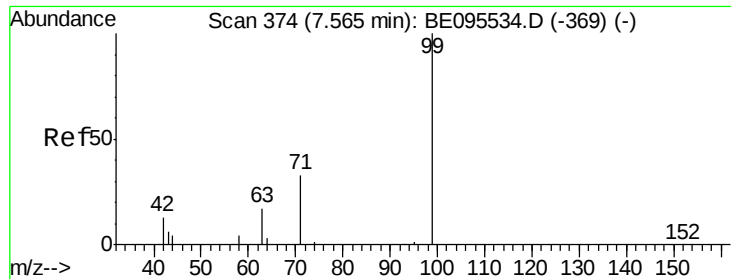
Ion Ratio Lower Upper

112 100

64 74.0 60.1 90.1

63 161.4 116.8 175.2





#5

Phenol-d6

Concen: 0.17 ng

RT: 7.556 min Scan# 37

Delta R.T. 0.004 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

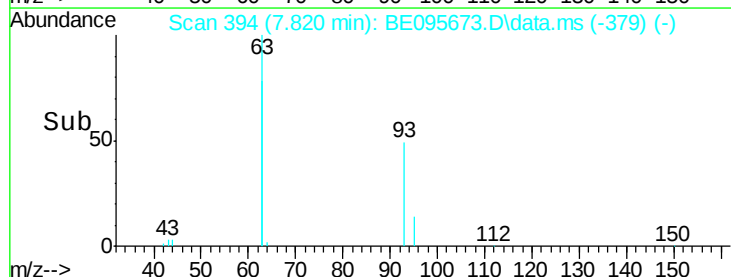
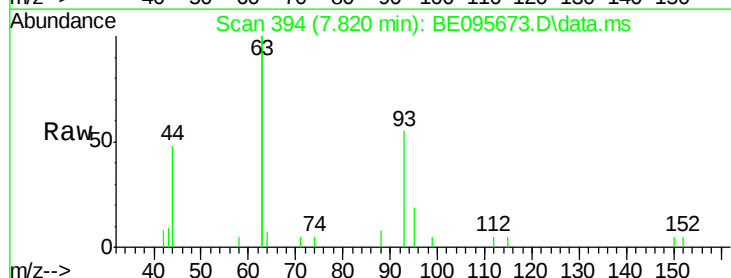
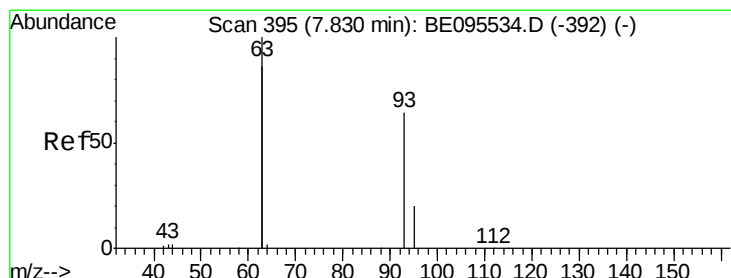
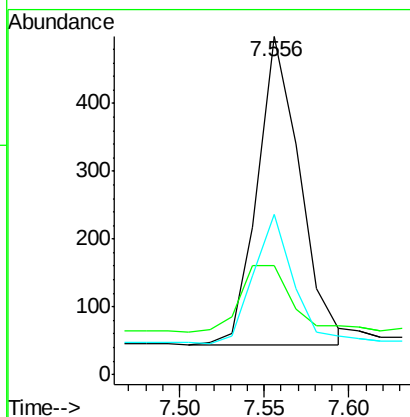
Tot Ion: 99 Resp: 794

Ion Ratio Lower Upper

99 100

42 25.1 20.2 30.2

71 38.4 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.20 ng

RT: 7.820 min Scan# 394

Delta R.T. -0.009 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

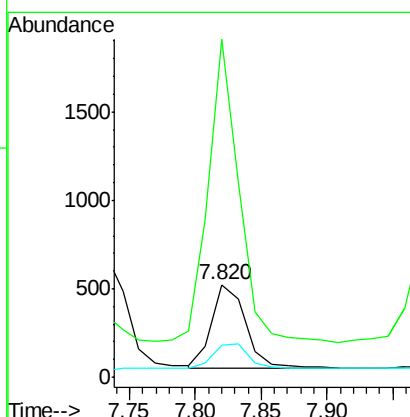
Tgt Ion: 93 Resp: 845

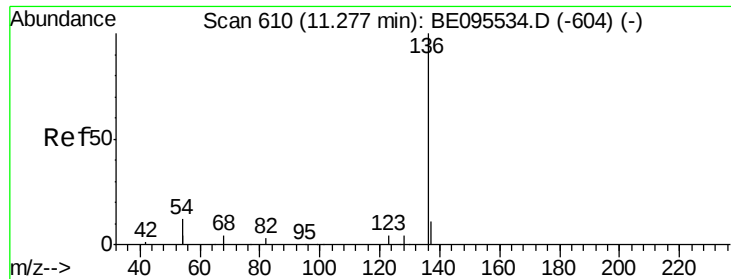
Ion Ratio Lower Upper

93 100

63 328.4 275.3 412.9

95 31.5 25.2 37.8





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 11.260 min Scan# 60

Delta R.T. -0.016 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 4486

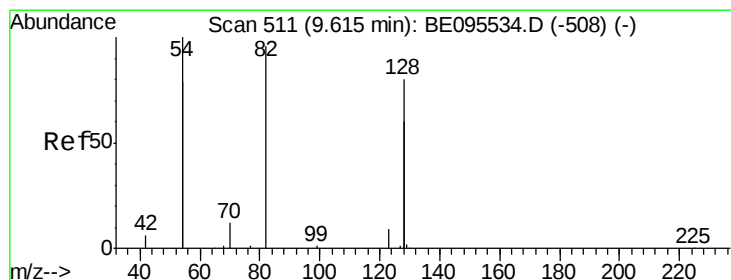
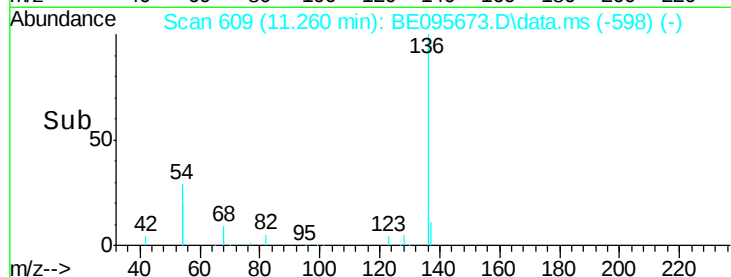
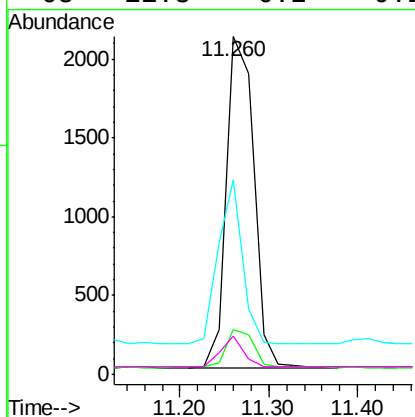
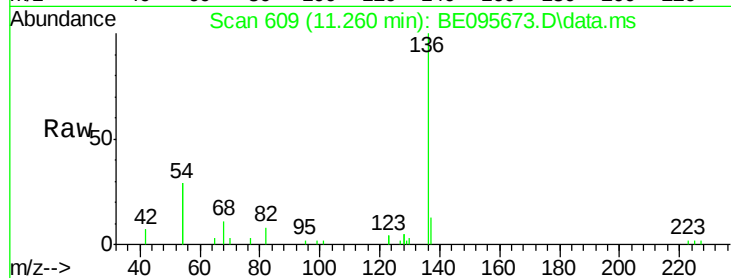
Ion Ratio Lower Upper

136 100

137 13.3 9.5 14.3

54 57.4 29.1 43.7#

68 11.3 6.2 9.2#



#8

Nitrobenzene-d5

Concen: 0.02 ng

RT: 9.531 min Scan# 506

Delta R.T. -0.083 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

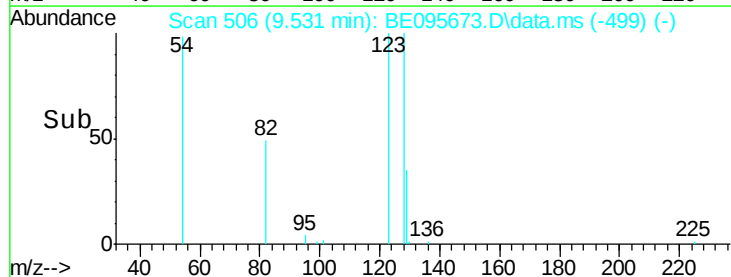
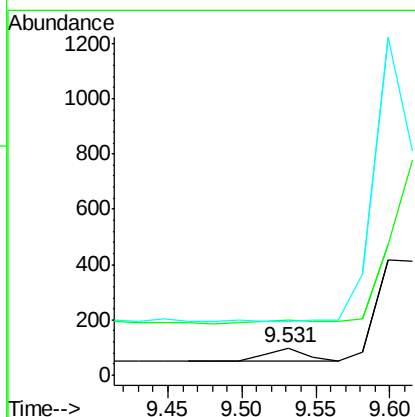
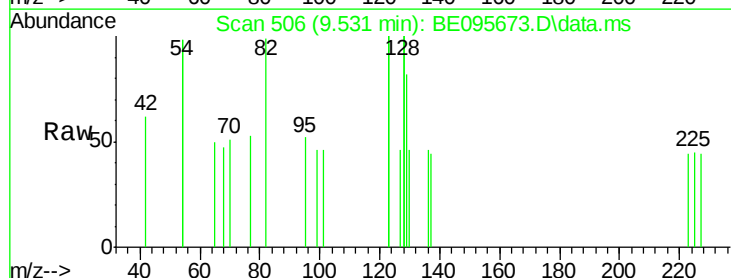
Tgt Ion: 82 Resp: 92

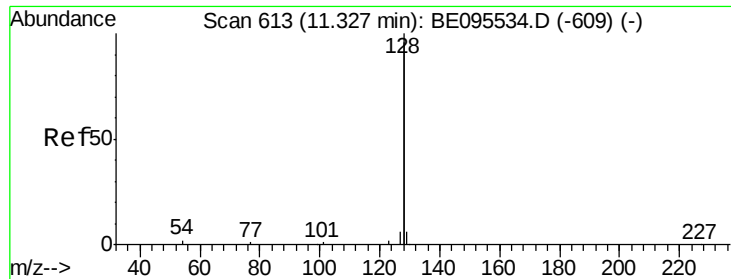
Ion Ratio Lower Upper

82 100

128 202.0 150.0 225.0

54 198.0 154.2 231.4





#9

Naphthalene

Concen: 0.20 ng

RT: 11.311 min Scan# 61

Delta R.T. 0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

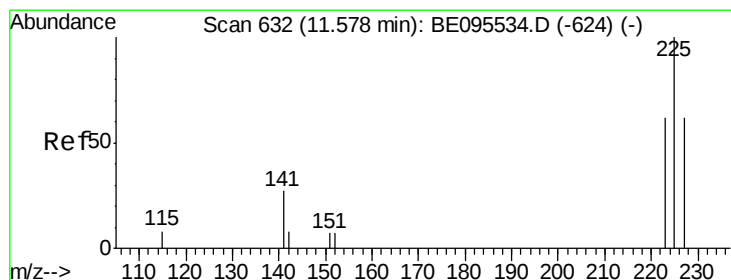
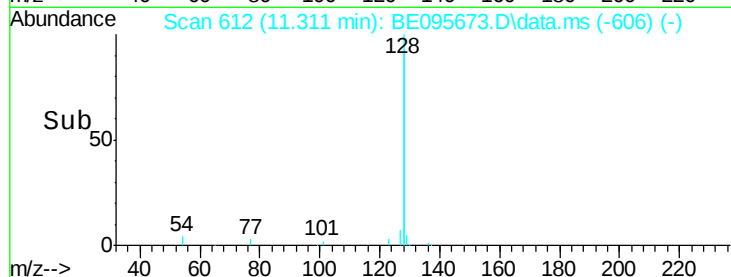
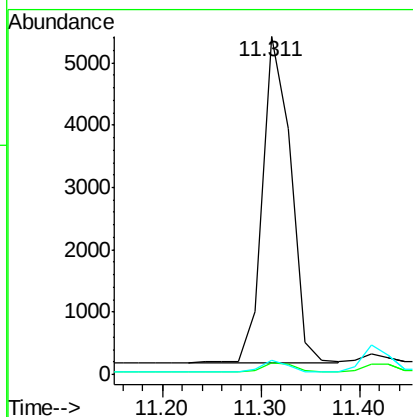
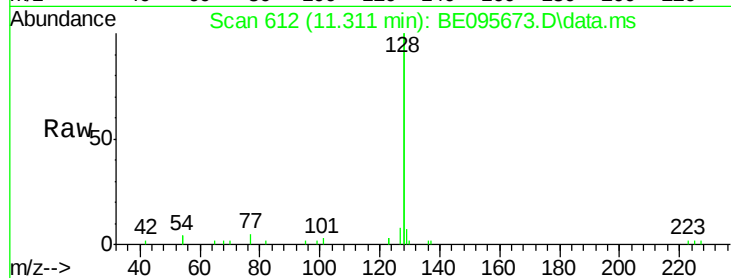
Tot Ion:128 Resp: 10294

Ion Ratio Lower Upper

128 100

129 3.4 2.6 3.8

127 4.2 2.8 4.2#



#10

Hexachlorobutadiene

Concen: 0.22 ng

RT: 11.571 min Scan# 631

Delta R.T. -0.000 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

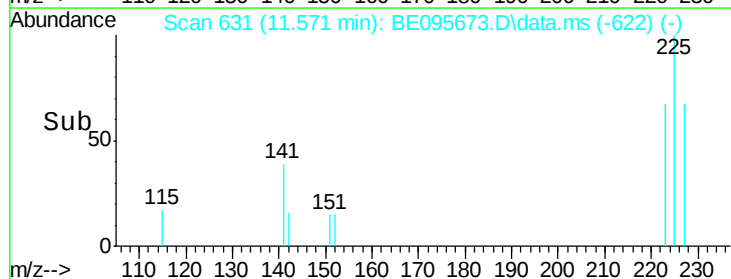
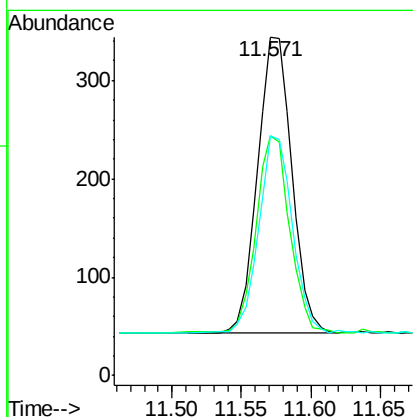
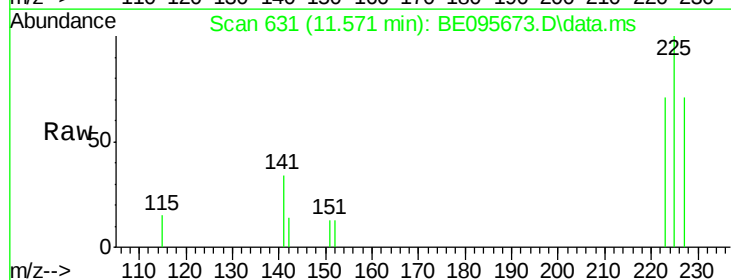
Tgt Ion:225 Resp: 608

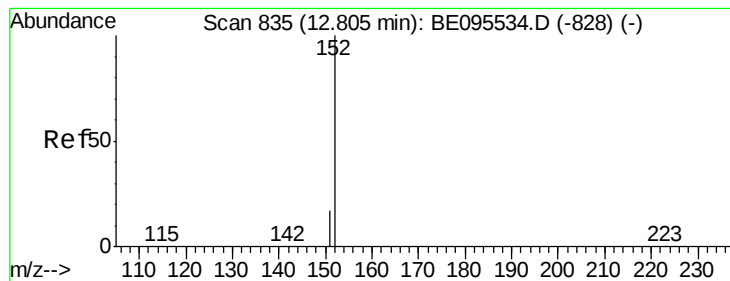
Ion Ratio Lower Upper

225 100

223 69.6 53.0 79.6

227 65.6 51.4 77.2





#11

2-Methylnaphthalene-d10

Concen: 0.20 ng

RT: 12.804 min Scan# 83

Delta R.T. -0.000 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

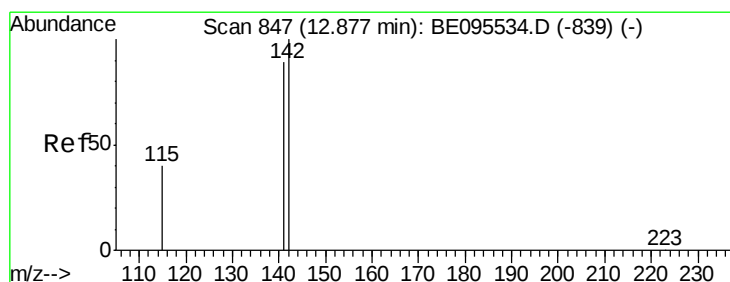
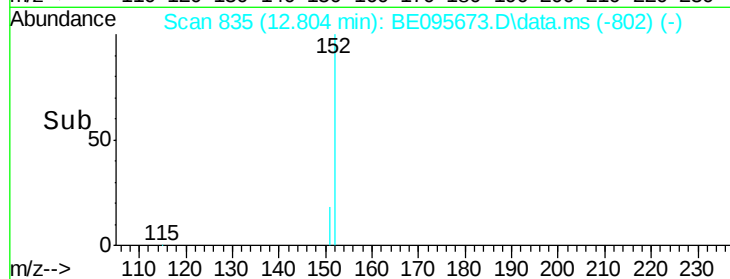
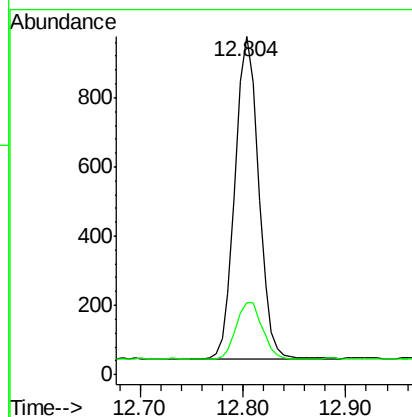
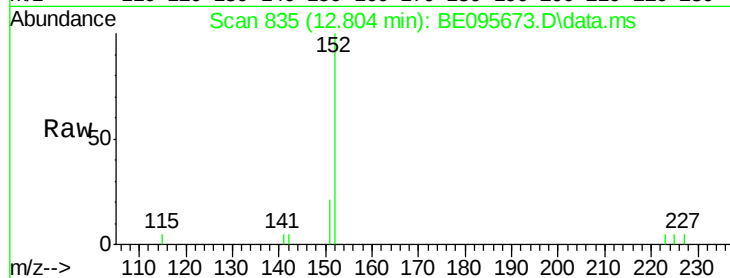
ClientSampleId :

Tot Ion:152 Resp: 1490

Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.0



#12

2-Methylnaphthalene

Concen: 0.20 ng

RT: 12.876 min Scan# 847

Delta R.T. -0.000 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

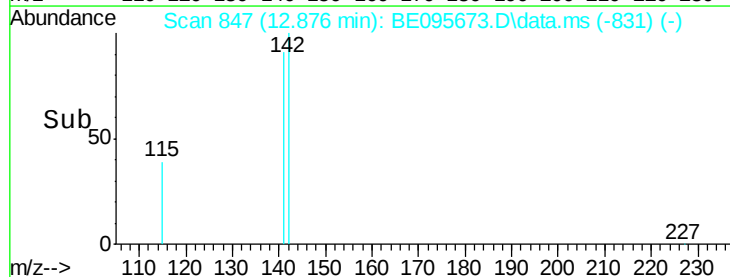
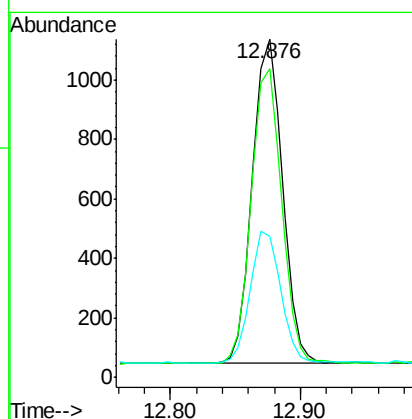
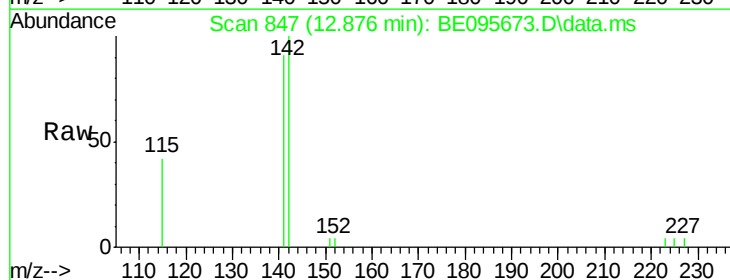
Tgt Ion:142 Resp: 1753

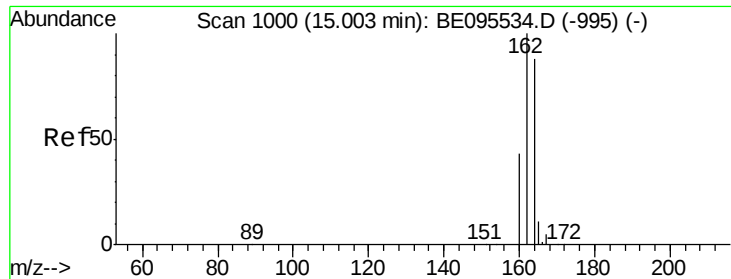
Ion Ratio Lower Upper

142 100

141 91.3 70.4 105.6

115 41.9 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 15.001 min Scan# 10

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

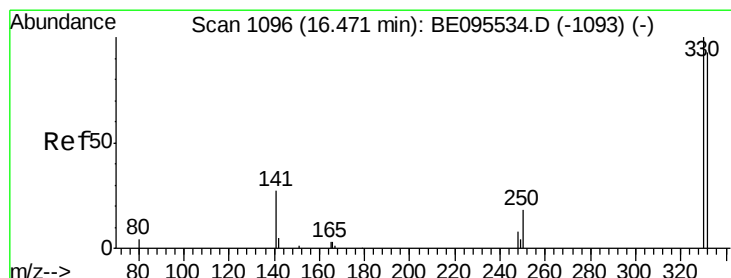
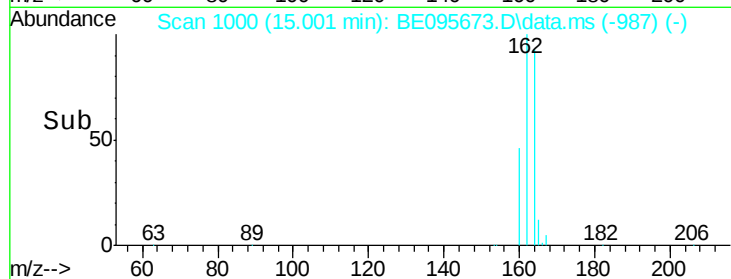
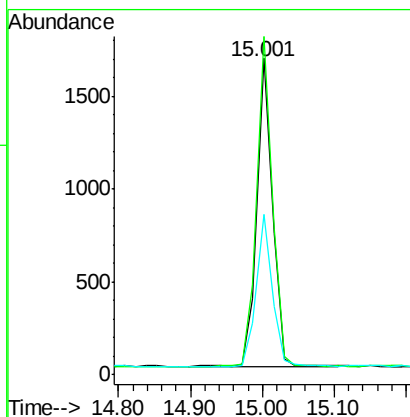
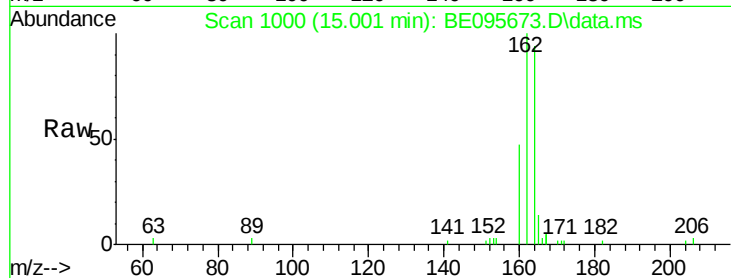
Tot Ion:164 Resp: 2487

Ion Ratio Lower Upper

164 100

162 106.9 83.1 124.7

160 50.7 37.1 55.7



#14

2,4,6-Tribromophenol

Concen: 0.13 ng

RT: 16.472 min Scan# 1096

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

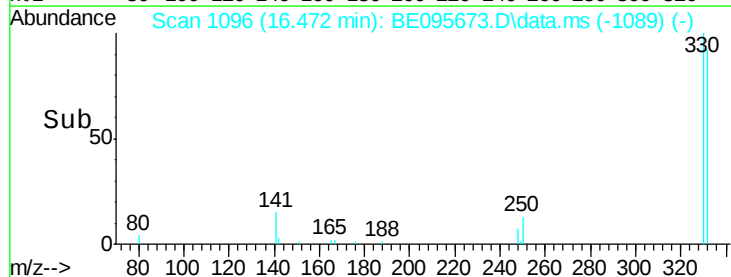
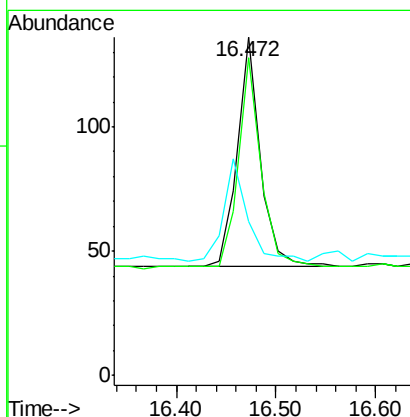
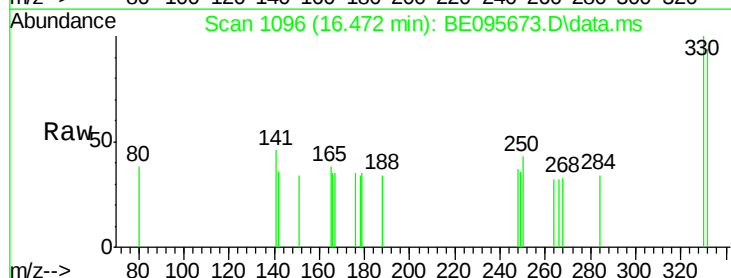
Tgt Ion:330 Resp: 145

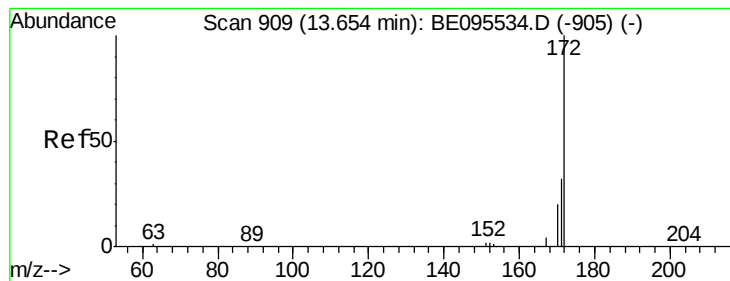
Ion Ratio Lower Upper

330 100

332 88.3 152.7 229.1#

141 46.2 33.7 50.5





#15

2-Fluorobiphenyl

Concen: 0.21 ng

RT: 13.638 min Scan# 909

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

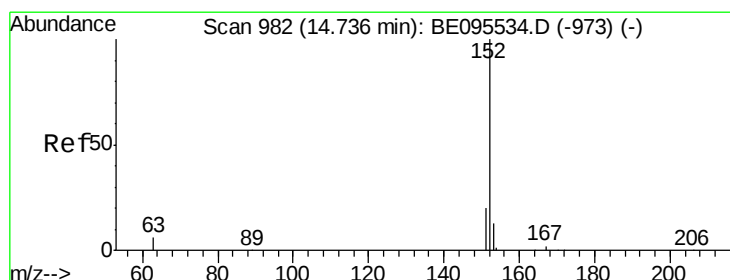
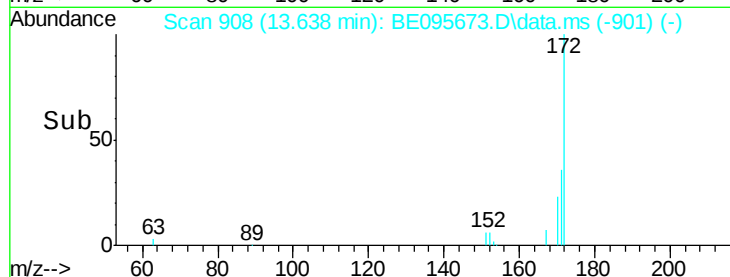
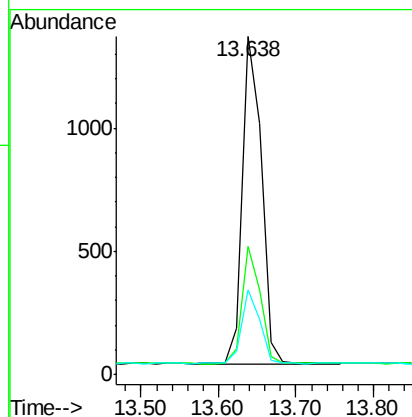
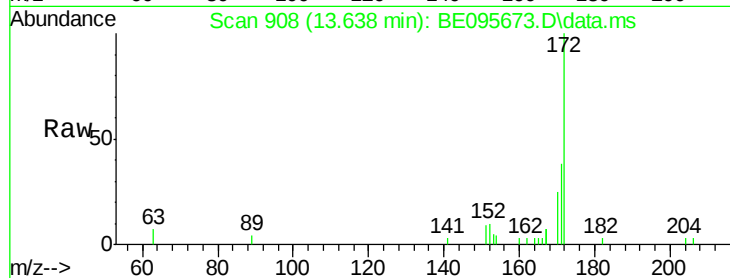
Tot Ion:172 Resp: 2279

Ion Ratio Lower Upper

172 100

171 37.9 29.9 44.9

170 25.2 21.8 32.8



#16

Acenaphthylene

Concen: 0.19 ng

RT: 14.735 min Scan# 982

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

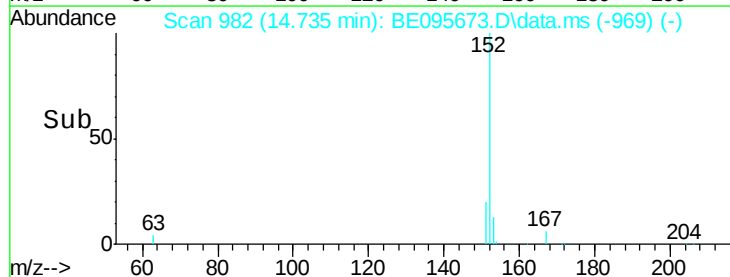
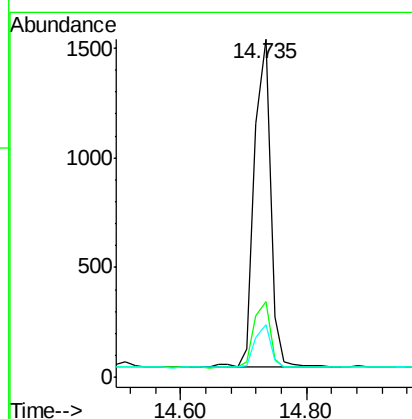
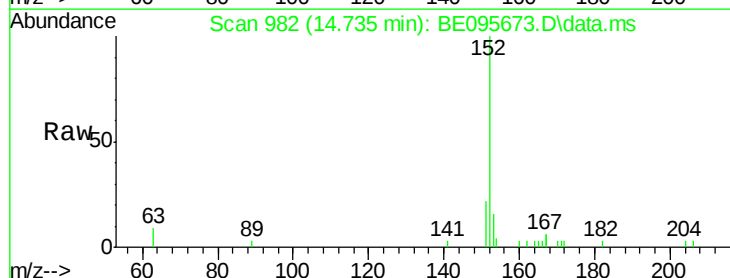
Tgt Ion:152 Resp: 2691

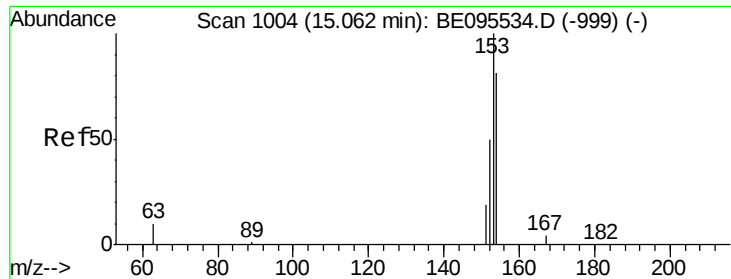
Ion Ratio Lower Upper

152 100

151 20.7 15.7 23.5

153 12.6 10.5 15.7





#17

Acenaphthene

Concen: 0.19 ng

RT: 15.061 min Scan# 10

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

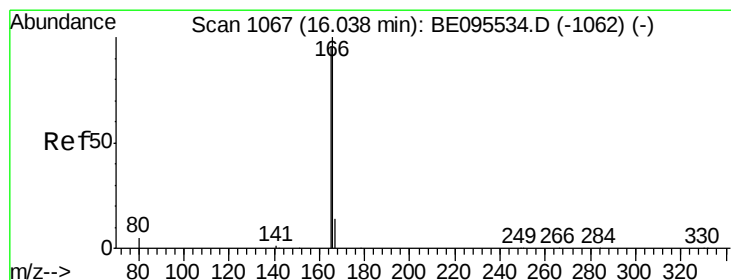
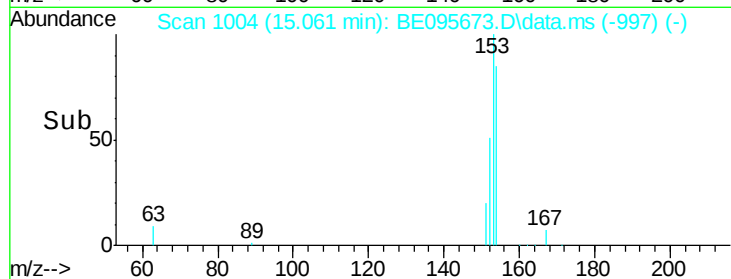
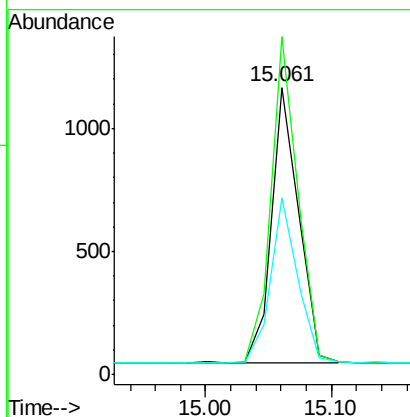
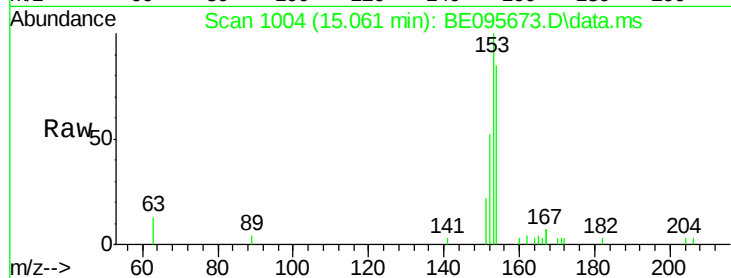
Tot Ion:154 Resp: 1696

Ion Ratio Lower Upper

154 100

153 116.6 89.2 133.8

152 60.1 42.0 63.0



#18

Fluorene

Concen: 0.19 ng

RT: 16.024 min Scan# 1066

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

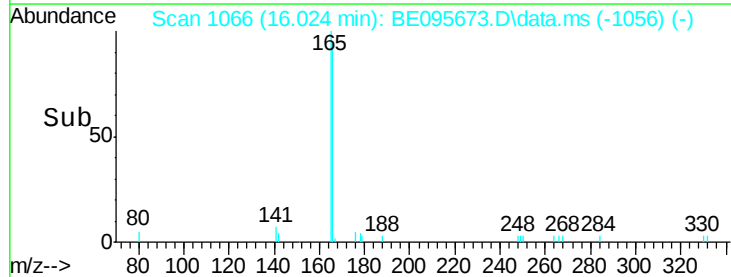
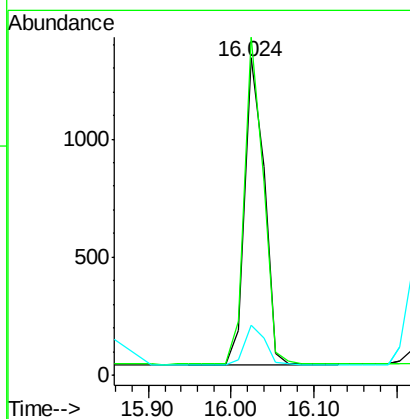
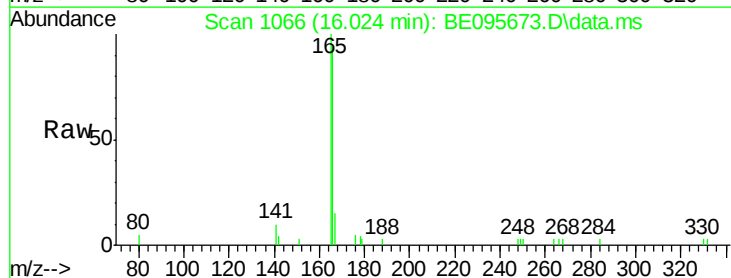
Tgt Ion:166 Resp: 2114

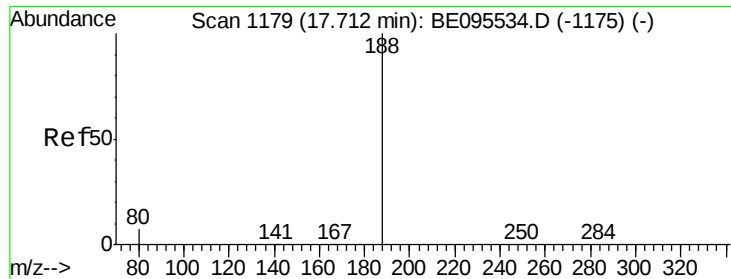
Ion Ratio Lower Upper

166 100

165 103.4 77.8 116.6

167 13.4 42.4 63.6#





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.714 min Scan# 1179

Delta R.T. 0.014 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

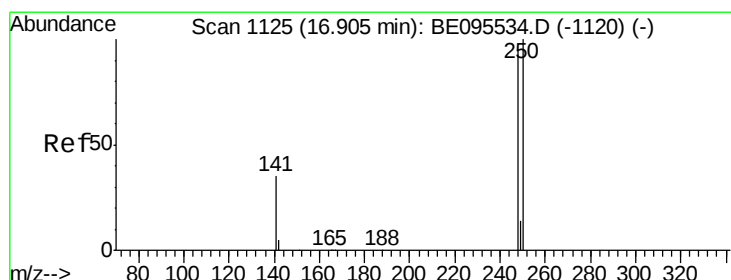
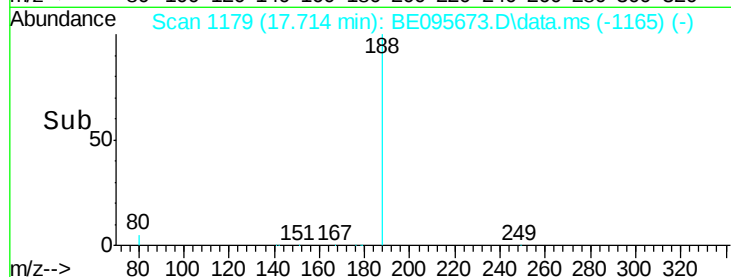
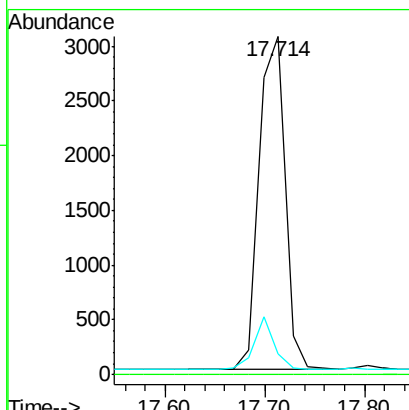
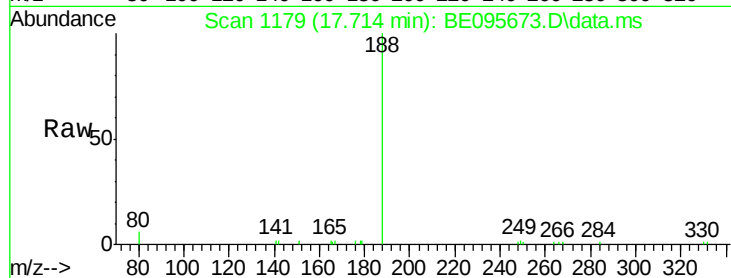
Tot Ion:188 Resp: 5622

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 6.2 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.20 ng

RT: 16.891 min Scan# 1124

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

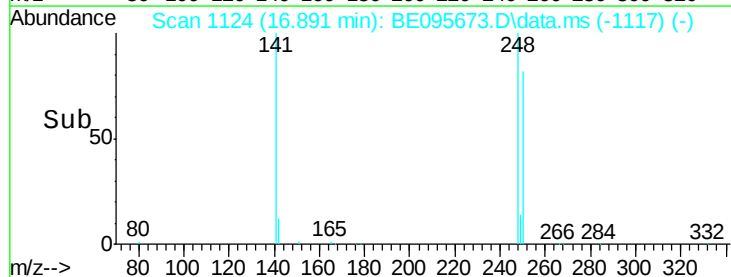
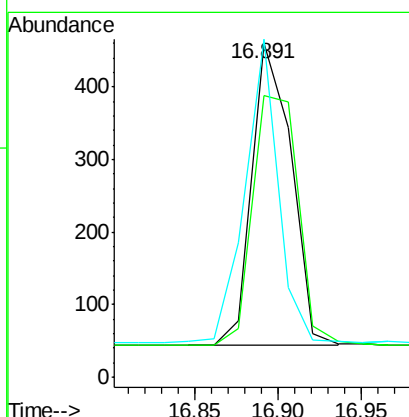
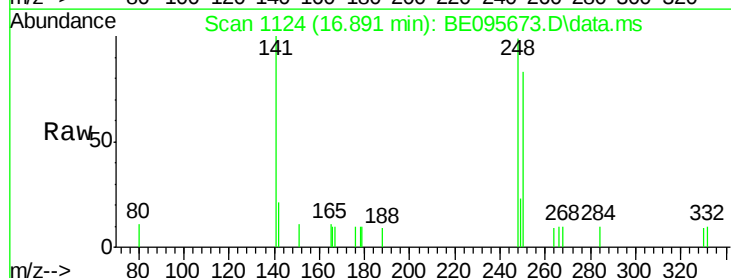
Tgt Ion:248 Resp: 686

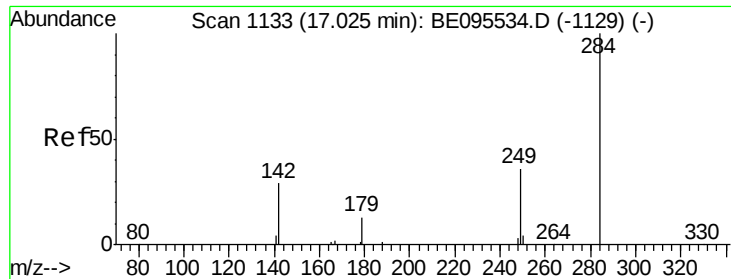
Ion Ratio Lower Upper

248 100

250 84.4 62.7 94.1

141 101.1 48.2 72.2#





#21

Hexachlorobenzene

Concen: 0.21 ng

RT: 17.026 min Scan# 1133

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

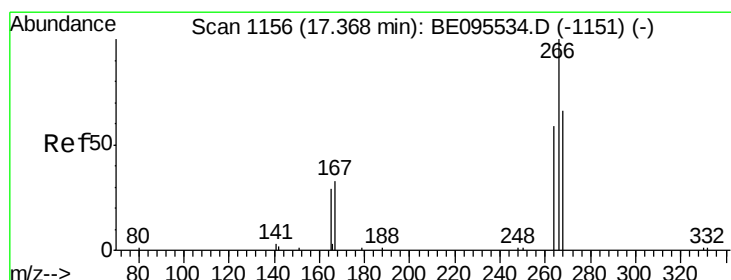
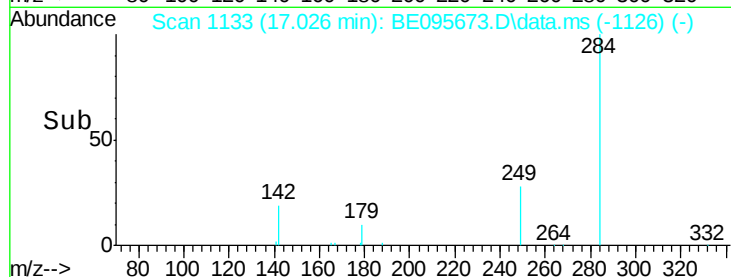
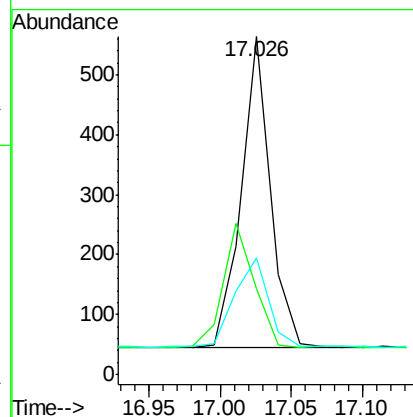
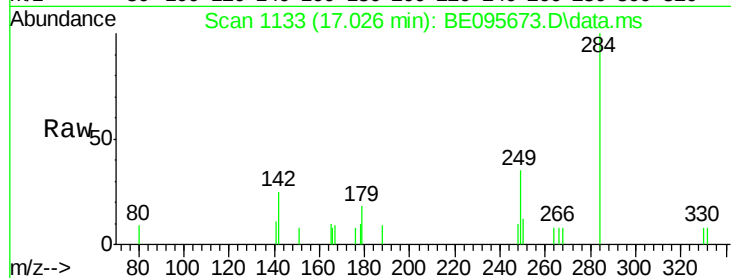
Tot Ion:284 Resp: 743

Ion Ratio Lower Upper

284 100

142 41.7 22.1 33.1#

249 32.3 34.8 52.2#



#22

Pentachlorophenol

Concen: 0.12 ng

RT: 17.370 min Scan# 1156

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

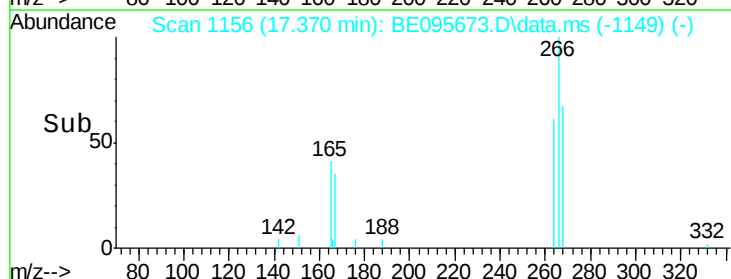
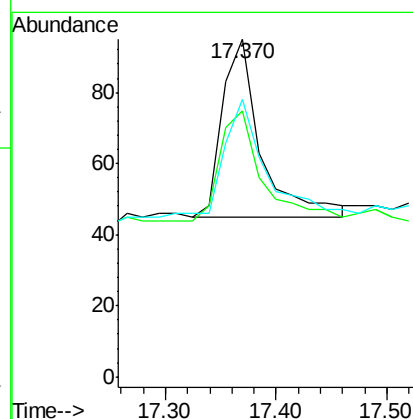
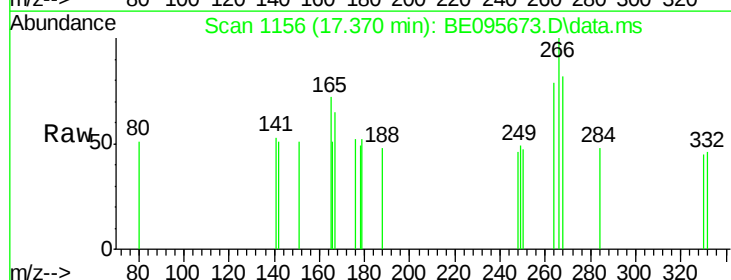
Tgt Ion:266 Resp: 120

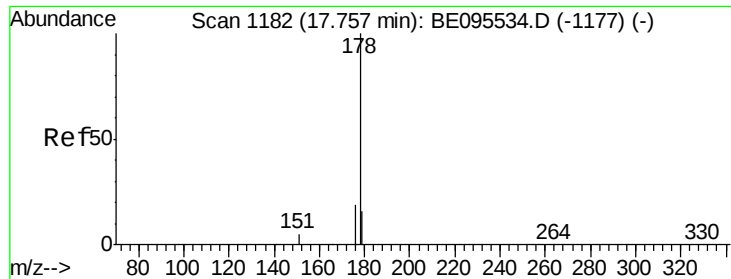
Ion Ratio Lower Upper

266 100

264 78.9 72.5 108.7

268 82.1 73.8 110.6





#23

Phenanthrene

Concen: 0.20 ng

RT: 17.743 min Scan# 1181

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

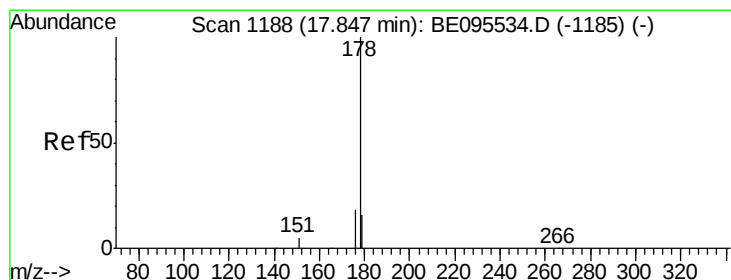
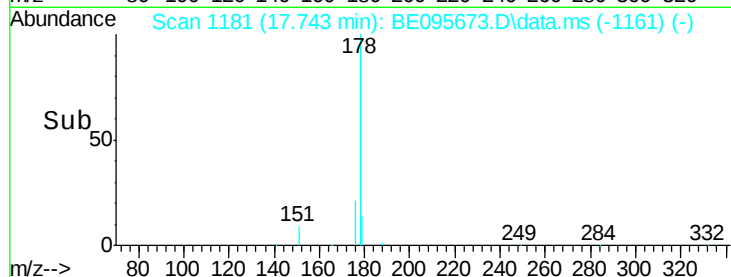
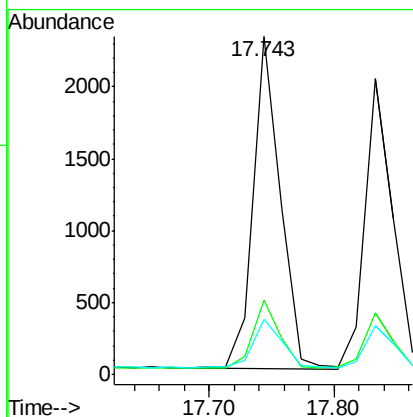
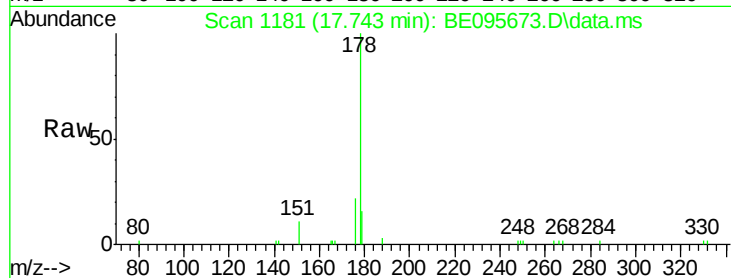
Tot Ion:178 Resp: 3500

Ion Ratio Lower Upper

178 100

176 19.6 15.1 22.7

179 15.1 11.8 17.6



#24

Anthracene

Concen: 0.19 ng

RT: 17.833 min Scan# 1187

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

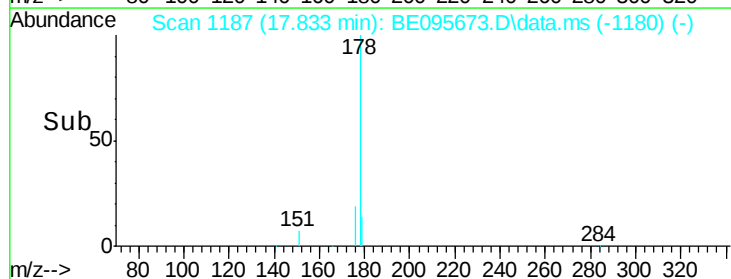
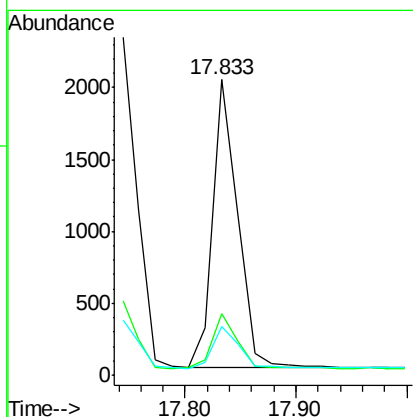
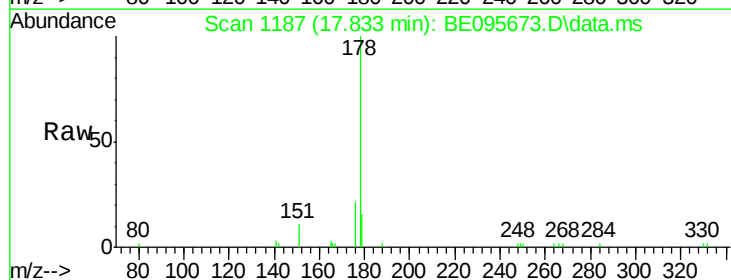
Tgt Ion:178 Resp: 3097

Ion Ratio Lower Upper

178 100

176 19.2 12.8 19.2#

179 15.6 13.0 19.6

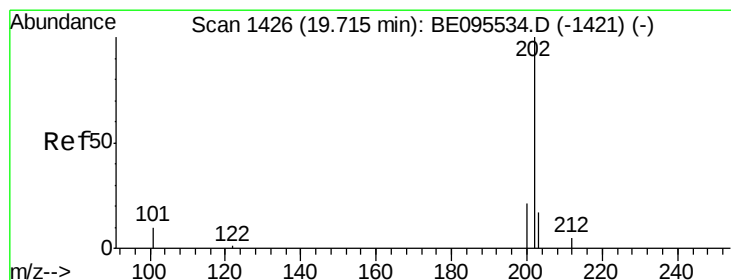
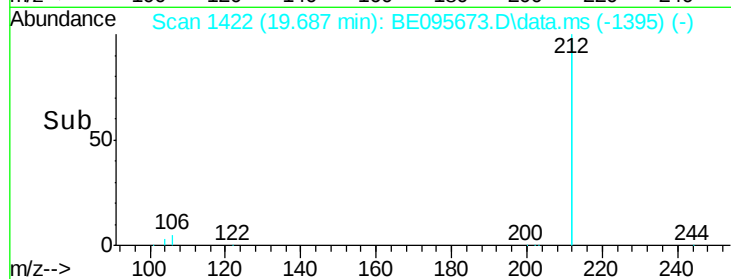
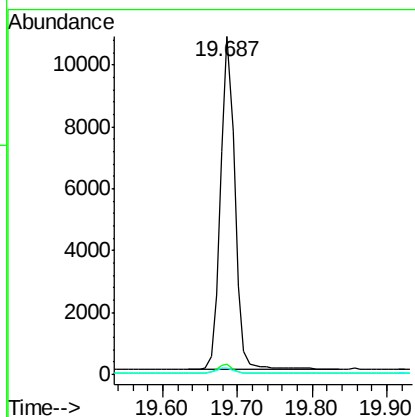
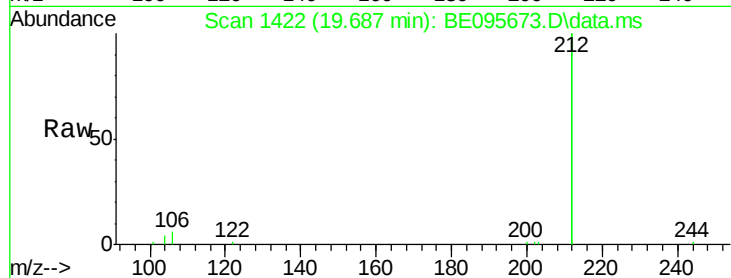




#25
 Fluoranthene-d10
 Concen: 0.19 ng
 RT: 19.687 min Scan# 1422
 Delta R.T. 0.001 min
 Lab File: BE095673.D
 Acq: 23 Feb 2018 9:06

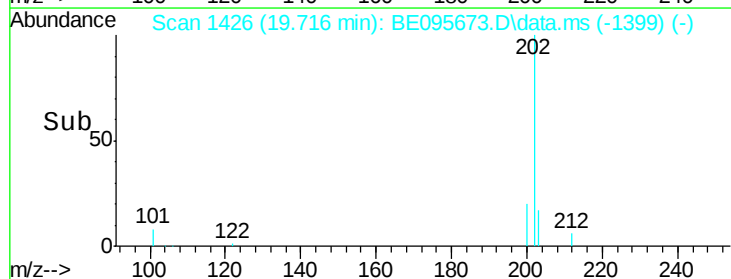
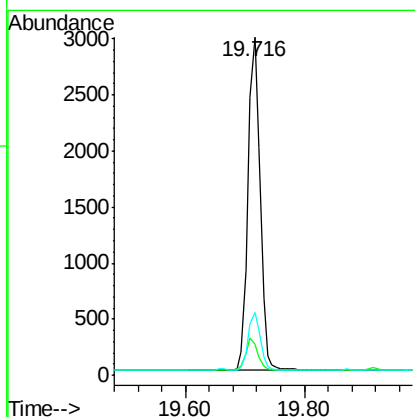
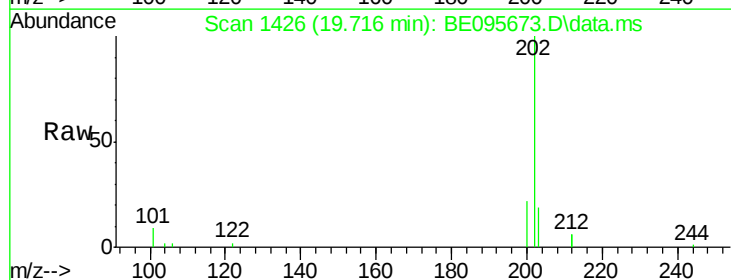
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
212	100		
106	2.8	2.8	4.2
104	1.7	1.6	2.4



#26
 Fluoranthene
 Concen: 0.19 ng
 RT: 19.716 min Scan# 1426
 Delta R.T. 0.001 min
 Lab File: BE095673.D
 Acq: 23 Feb 2018 9:06

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.6	9.8	14.8#
203	17.1	13.7	20.5





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.791 min Scan# 1577

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

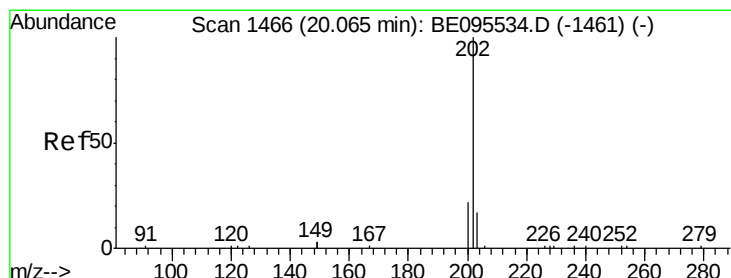
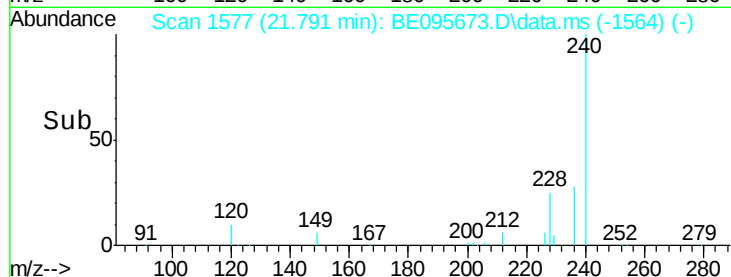
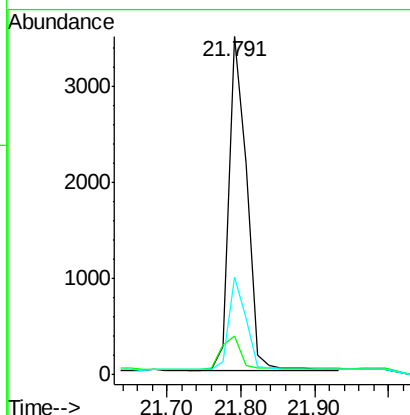
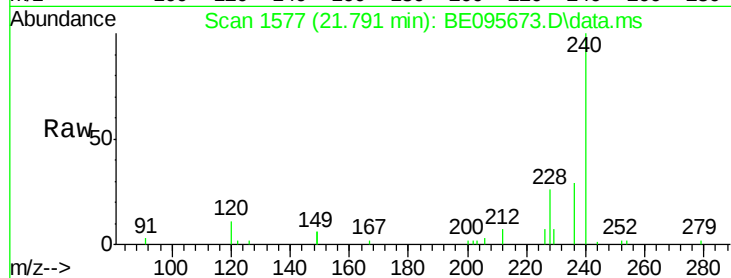
Tot Ion:240 Resp: 5777

Ion Ratio Lower Upper

240 100

120 11.4 5.5 8.3#

236 28.9 20.7 31.1



#28

Pyrene

Concen: 0.17 ng

RT: 20.064 min Scan# 1466

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

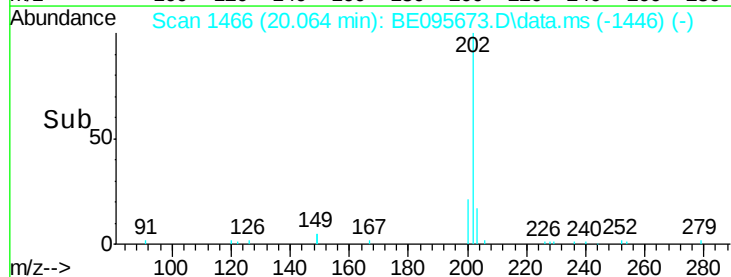
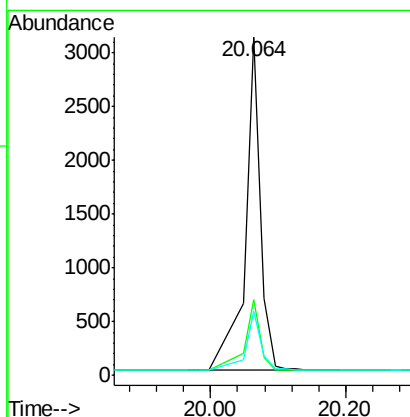
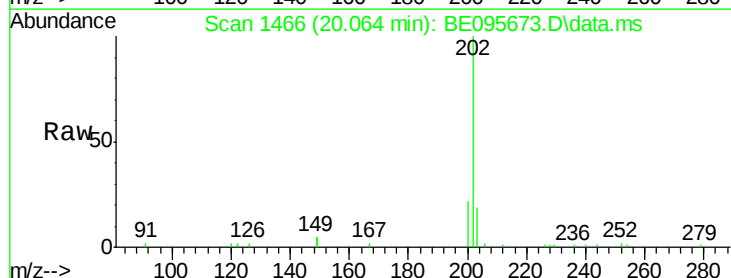
Tgt Ion:202 Resp: 4238

Ion Ratio Lower Upper

202 100

200 25.8 16.6 25.0#

203 19.5 13.8 20.8





#29

Terphenyl-d14

Concen: 0.18 ng

RT: 20.251 min Scan# 1478

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampled :

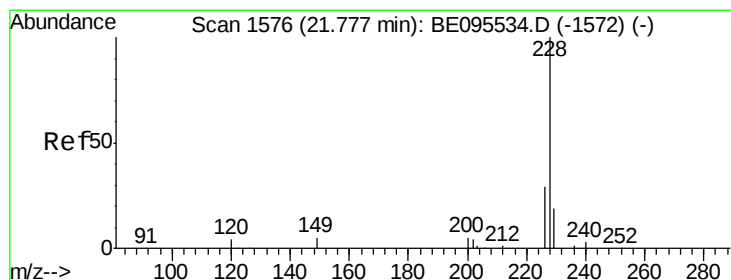
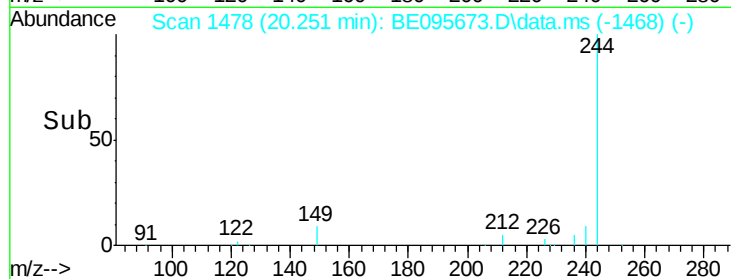
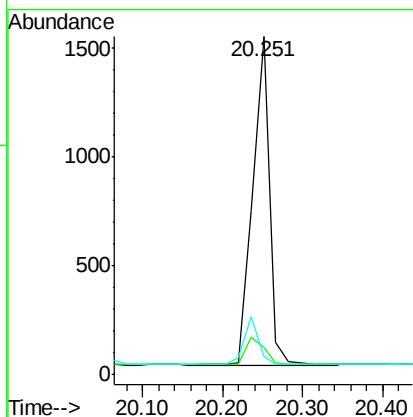
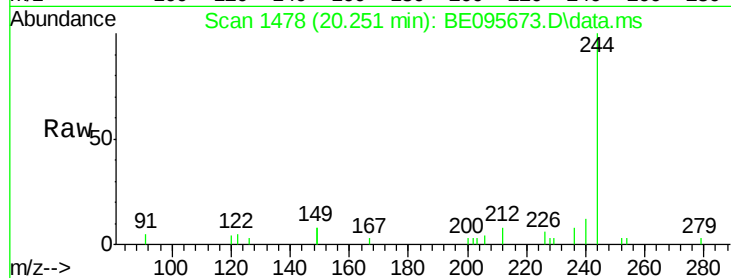
Tot Ion:244 Resp: 2214

Ion Ratio Lower Upper

244 100

212 8.0 25.4 38.0#

122 5.4 8.1 12.1#



#30

Benzo(a)anthracene

Concen: 0.19 ng

RT: 21.776 min Scan# 1576

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

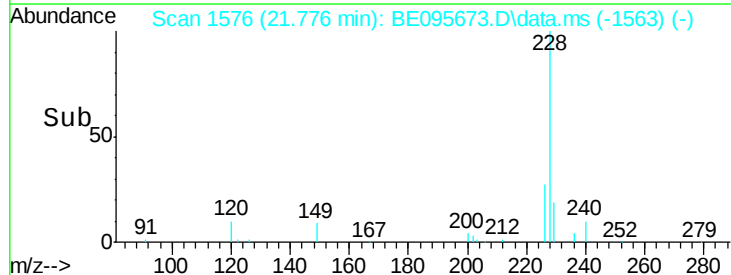
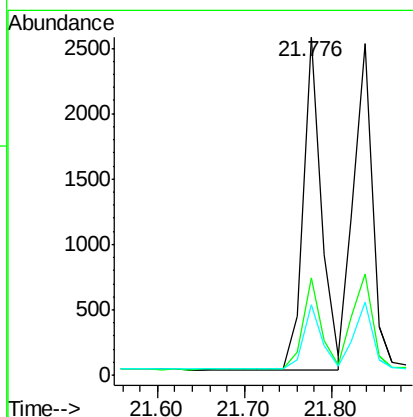
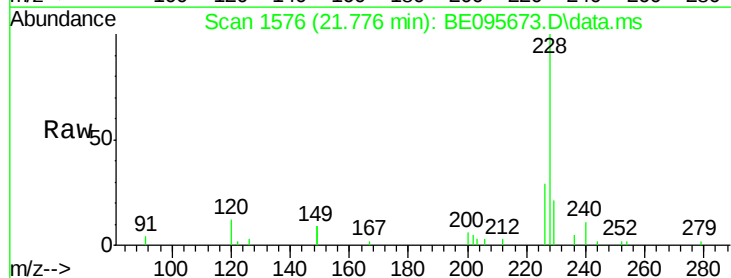
Tgt Ion:228 Resp: 3689

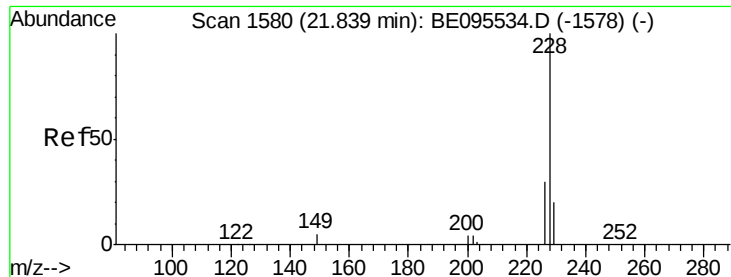
Ion Ratio Lower Upper

228 100

226 28.8 24.0 36.0

229 20.9 16.0 24.0





#31

Chrysene

Concen: 0.20 ng

RT: 21.838 min Scan# 15

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

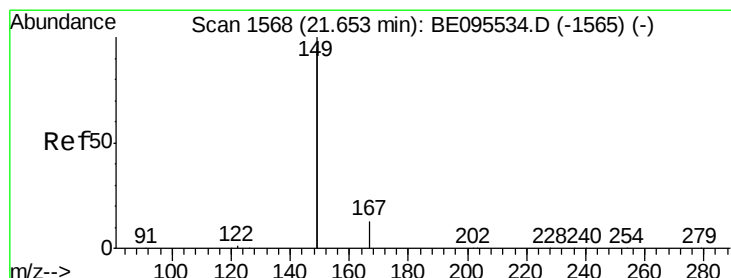
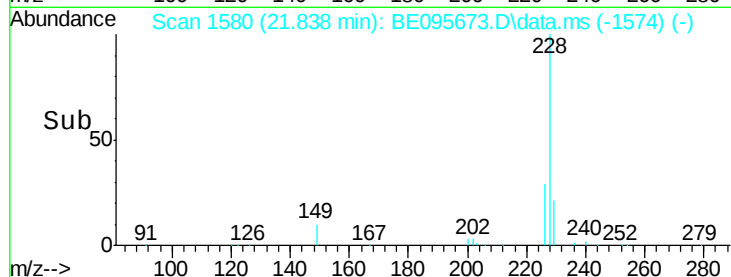
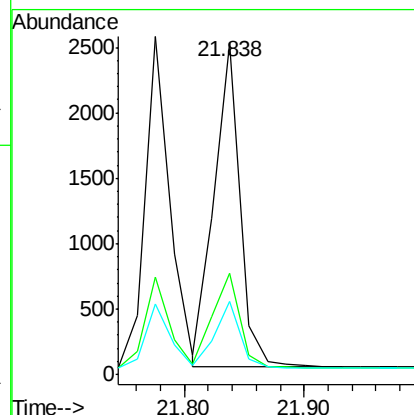
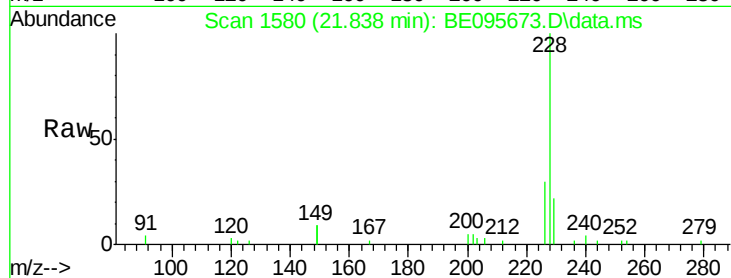
Tot Ion:228 Resp: 3732

Ion Ratio Lower Upper

228 100

226 30.5 24.0 36.0

229 22.0 16.0 24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.14 ng

RT: 21.651 min Scan# 1568

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

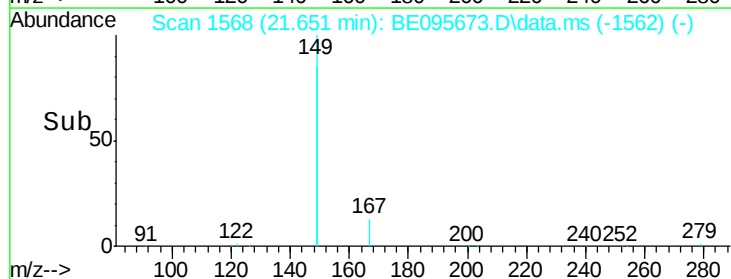
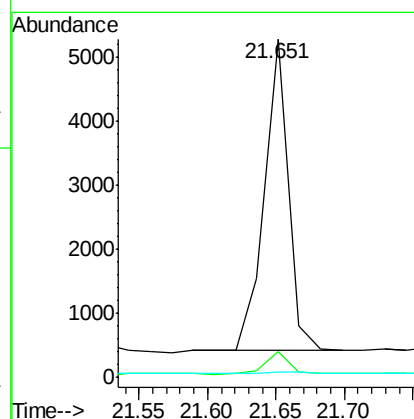
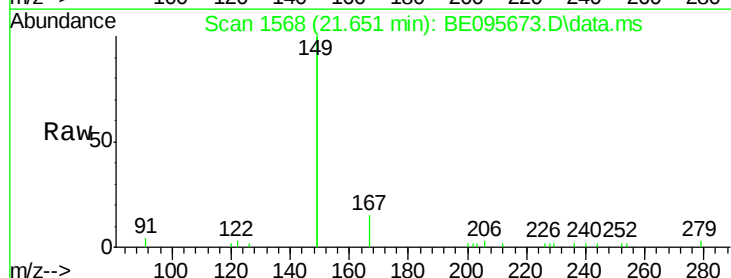
Tgt Ion:149 Resp: 5991

Ion Ratio Lower Upper

149 100

167 7.3 5.4 8.0

279 1.1 0.7 1.1#

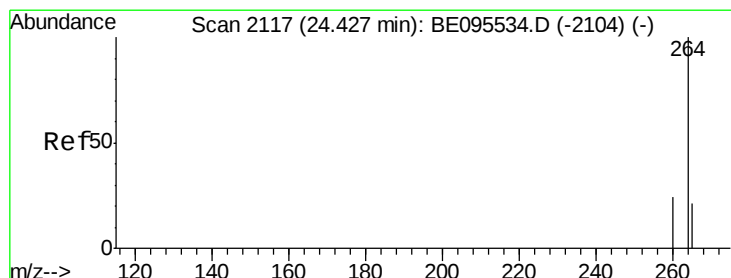
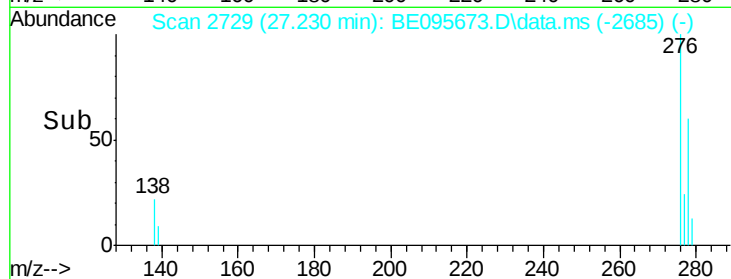
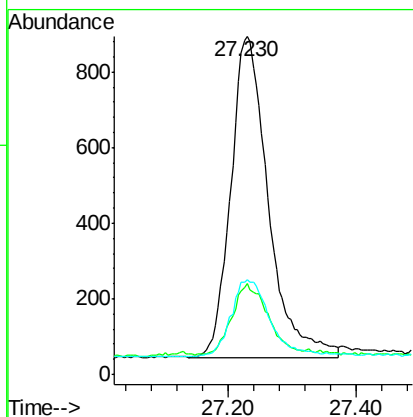
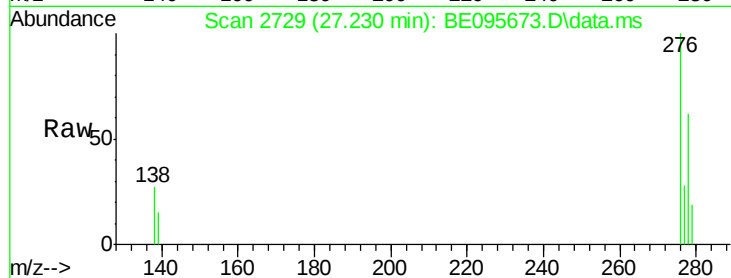




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.19 ng
 RT: 27.230 min Scan# 2731
 Delta R.T. 0.001 min
 Lab File: BE095673.D
 Acq: 23 Feb 2018 9:06

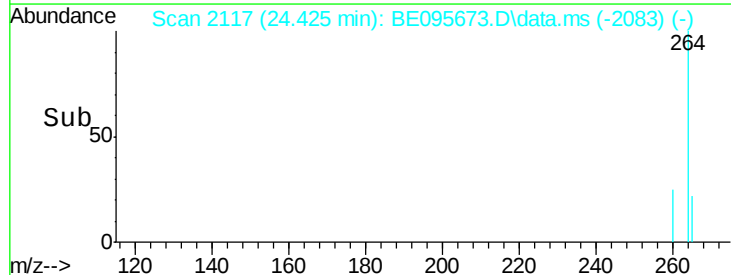
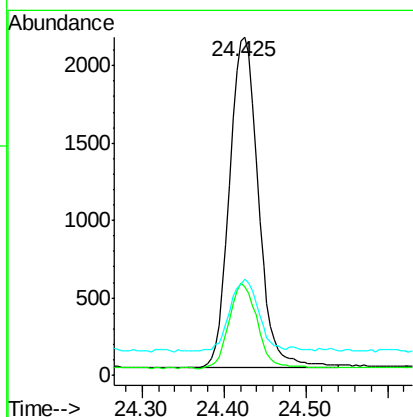
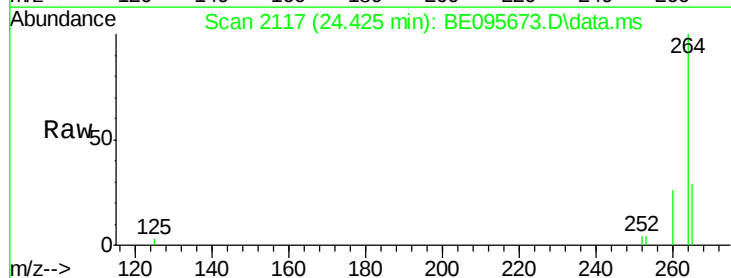
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:276 Resp: 3453
 Ion Ratio Lower Upper
 276 100
 138 21.0 22.5 33.7#
 277 24.7 19.9 29.9



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 24.425 min Scan# 2117
 Delta R.T. 0.004 min
 Lab File: BE095673.D
 Acq: 23 Feb 2018 9:06

Tgt Ion:264 Resp: 5191
 Ion Ratio Lower Upper
 264 100
 260 26.3 20.5 30.7
 265 28.6 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.21 ng

RT: 23.606 min Scan# 19

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

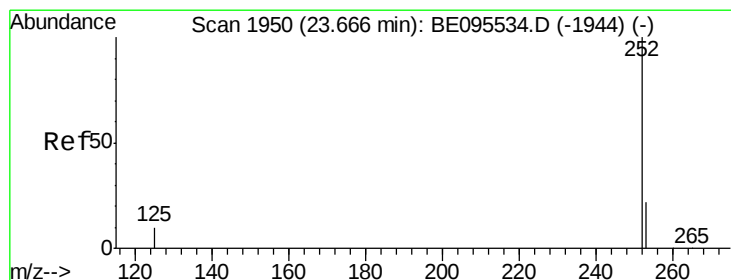
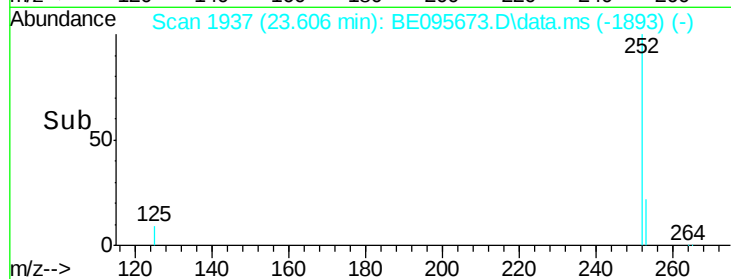
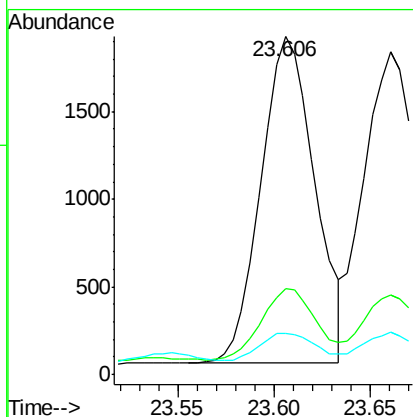
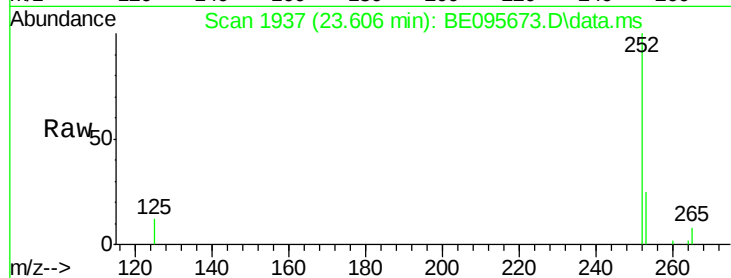
Tot Ion:252 Resp: 3631

Ion Ratio Lower Upper

252 100

253 25.3 20.0 30.0

125 12.0 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.20 ng

RT: 23.660 min Scan# 1949

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

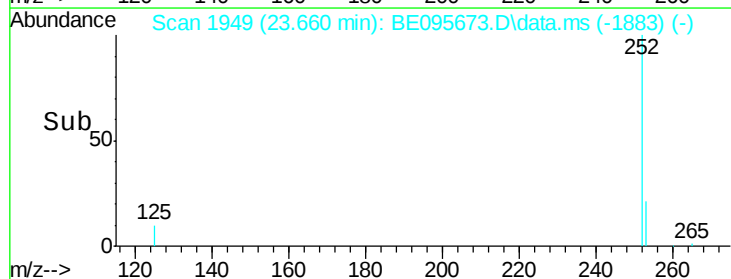
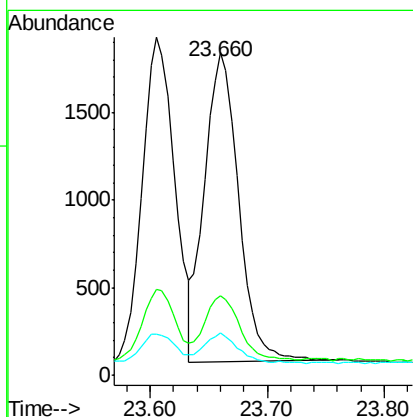
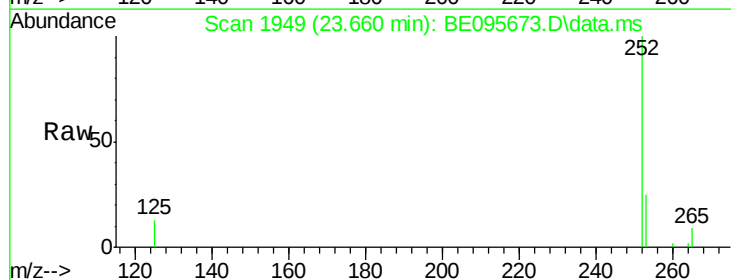
Tgt Ion:252 Resp: 3593

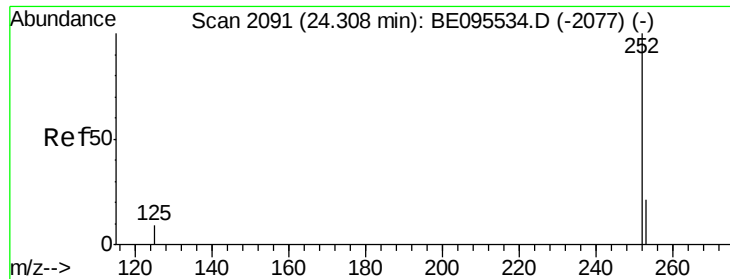
Ion Ratio Lower Upper

252 100

253 24.5 16.0 24.0#

125 13.3 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.19 ng

RT: 24.302 min Scan# 2091

Delta R.T. -0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

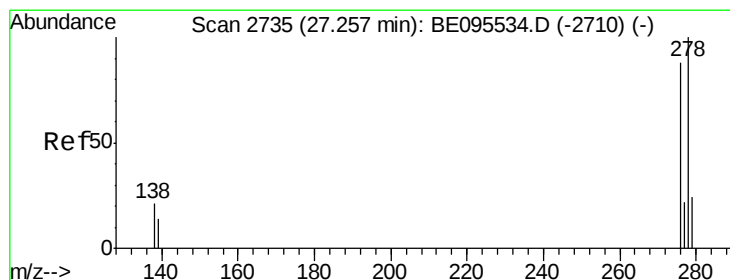
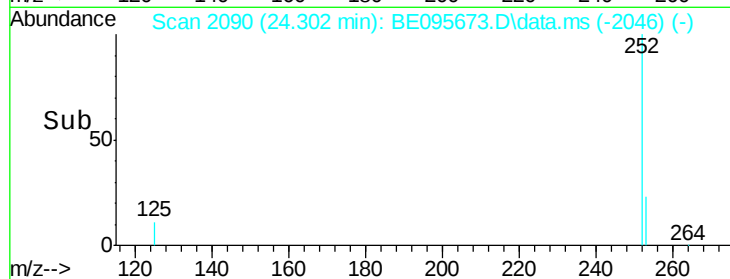
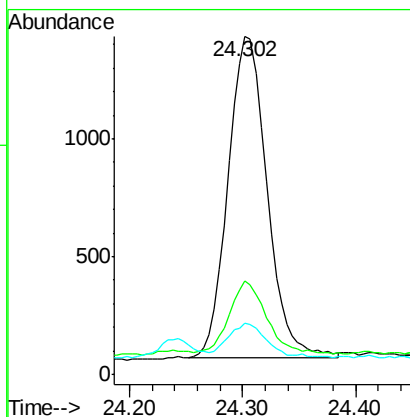
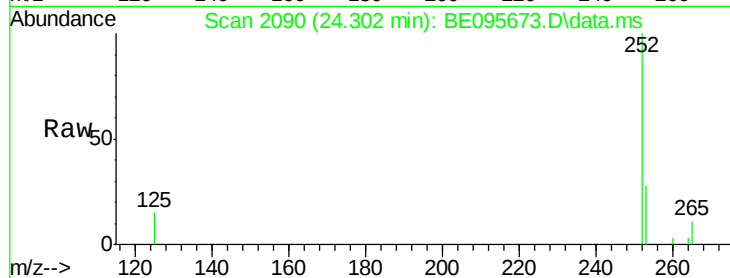
Tot Ion:252 Resp: 3201

Ion Ratio Lower Upper

252 100

253 27.7 16.0 24.0#

125 15.3 12.0 18.0



#38

Dibenzo(a,h)anthracene

Concen: 0.19 ng

RT: 27.253 min Scan# 2734

Delta R.T. 0.005 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

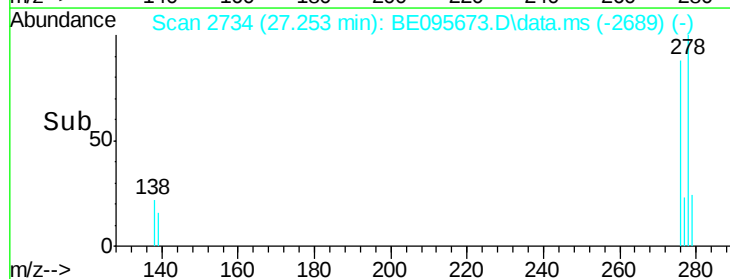
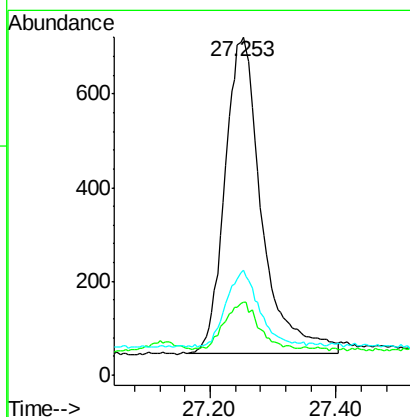
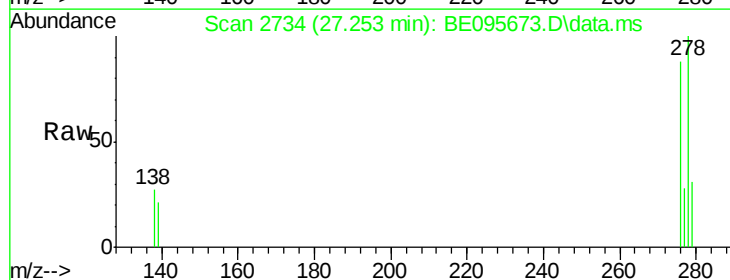
Tgt Ion:278 Resp: 2717

Ion Ratio Lower Upper

278 100

139 21.5 16.0 24.0

279 31.2 20.0 30.0#





#39

Benzo(a,h,i)perylene

Concen: 0.20 ng

RT: 28.100 min Scan# 29

Delta R.T. 0.001 min

Lab File: BE095673.D

Acq: 23 Feb 2018 9:06

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 276 Resp: 3089

Ion Ratio Lower Upper

276 100

277 26.8 16.0 24.0#

138 25.0 20.0 30.0

