

Data Path : Z:\HPCHEM1\BNA F\Data\BF101817\
 Data File : BF099640.D
 Acq On : 19 Oct 2017 1:51
 Operator : SJ/JU
 Sample : I5935-04 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

Quant Time: Oct 19 10:21:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 17:20:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.828	152	92991	20.00	ng	-0.04
21) Naphthalene-d8	8.110	136	336681	20.00	ng	-0.04
38) Acenaphthene-d10	9.863	164	125107	20.00	ng	-0.04
63) Phenanthrene-d10	11.351	188	199817	20.00	ng	-0.04
75) Chrysene-d12	13.998	240	187782	20.00	ng	-0.04
86) Perylene-d12	15.468	264	147899	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	91981	15.75	ng	-0.03
7) Phenol-d6	6.469	99	109972	15.26	ng	-0.03
23) Nitrobenzene-d5	7.392	82	59138	11.26	ng	-0.04
41) 2,4,6-Tribromophenol	10.657	330	14924	14.58	ng	-0.04
44) 2-Fluorobiphenyl	9.180	172	111360	14.86	ng	-0.05
78) Terphenyl-d14	12.933	244	84788	10.27	ng	-0.04

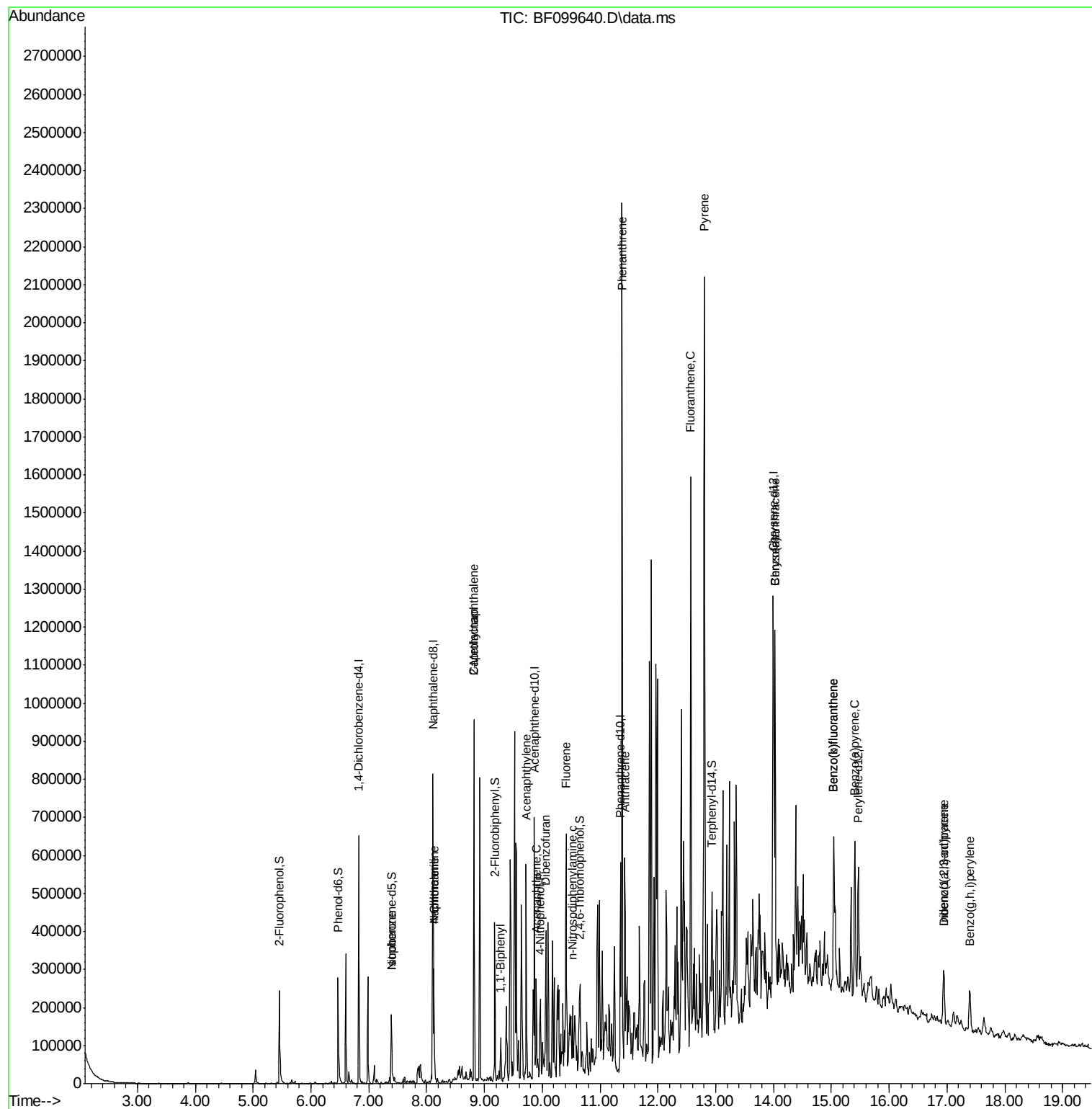
Target Compounds						Qvalue
25) Isophorone	7.392	82	59137	5.45	ng	# 64
31) Naphthalene	8.128	128	136393	8.63	ng	98
33) 4-Chloroaniline	8.128	127	17006	2.58	ng	# 31
35) Caprolactam	8.822	113	4592	3.08	ng	# 1
37) 2-Methylnaphthalene	8.822	142	239589	23.31	ng	98
45) 1,1'-Biphenyl	9.280	154	33114	3.08	ng	99
48) Acenaphthylene	9.727	152	135927	11.00	ng	# 96
51) Acenaphthene	9.898	154	37441	4.78	ng	# 88
54) Dibenzofuran	10.069	168	25164	2.41	ng	# 78
55) 4-Nitrophenol	9.963	139	5250	2.59	ng	# 20
57) Fluorene	10.410	166	169492	20.23	ng	99
65) n-Nitrosodiphenylamine	10.516	169	16990	2.45	ng	# 74
70) Phenanthrene	11.380	178	828503	77.46	ng	99
71) Anthracene	11.427	178	202632	18.52	ng	99
74) Fluoranthene	12.574	202	560230	51.73	ng	98
77) Pyrene	12.804	202	797519	55.70	ng	99
80) Benzo(a)anthracene	14.027	228	351010	30.87	ng	94
82) Chrysene	14.027	228	351010	32.42	ng	98
85) Indeno(1,2,3-cd)pyrene	16.945	276	76012	8.78	ng	99
87) Benzo(b)fluoranthene	15.039	252	309820	34.07	ng	# 97
88) Benzo(k)fluoranthene	15.039	252	309405	34.45	ng	98
89) Benzo(a)pyrene	15.404	252	196559	23.55	ng	# 93
90) Dibenzo(a,h)anthracene	16.945	278	24646	3.69	ng	# 77
91) Benzo(g,h,i)perylene	17.398	276	78719	11.92	ng	93

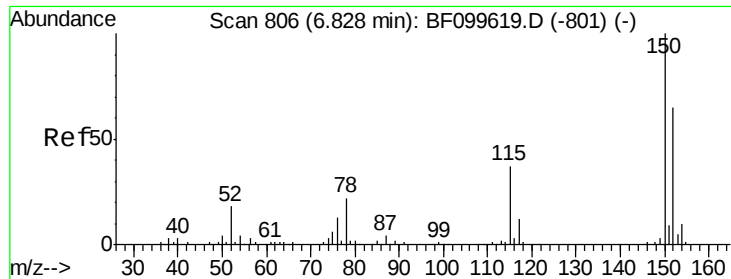
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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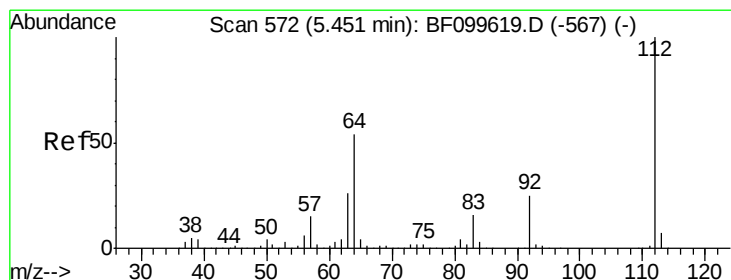
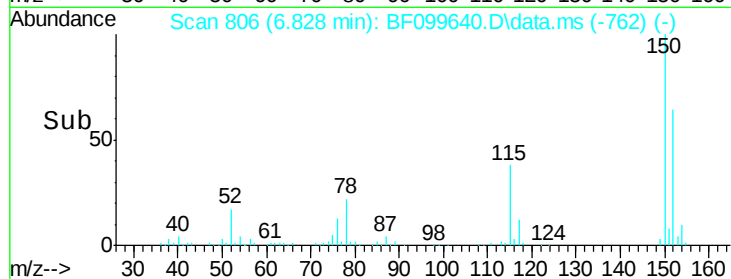
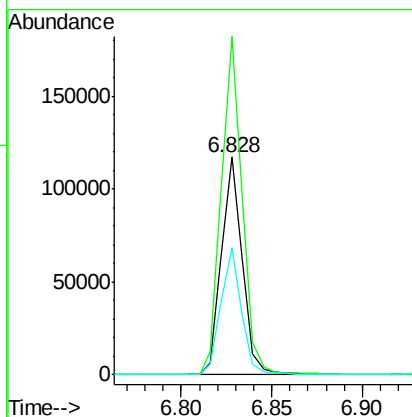
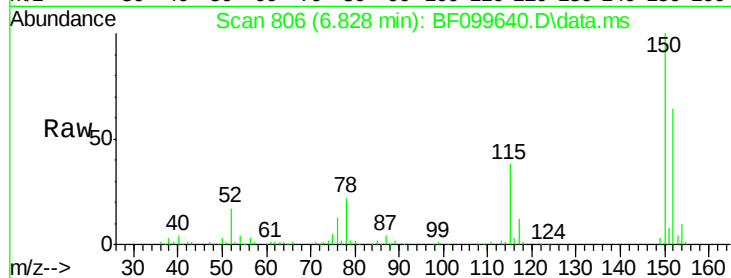




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.828 min Scan# 80
 Delta R.T. -0.041 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

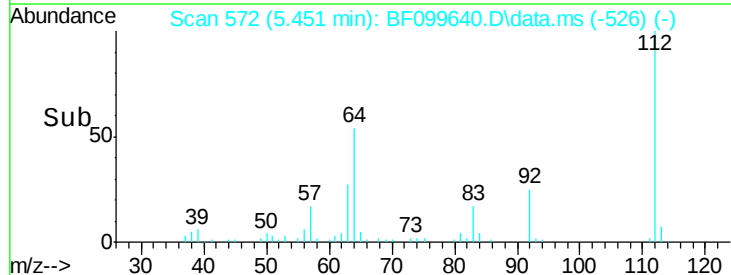
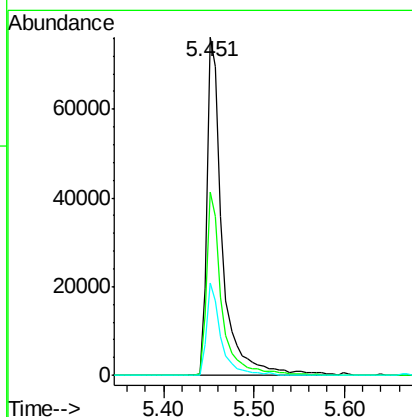
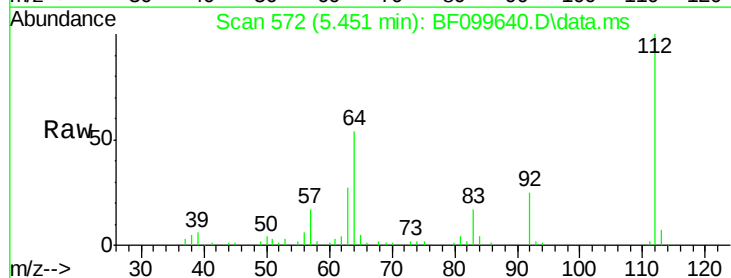
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

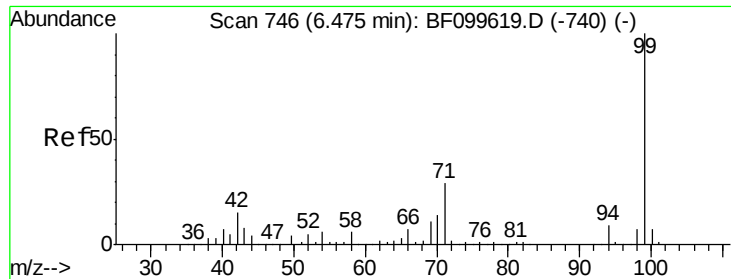
Tot Ion:152 Resp: 92991
 Ion Ratio Lower Upper
 152 100
 150 155.6 124.6 186.8
 115 58.4 50.1 75.1



#5
 2-Fluorophenol
 Concen: 15.75 ng
 RT: 5.451 min Scan# 572
 Delta R.T. -0.029 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Tgt Ion:112 Resp: 91981
 Ion Ratio Lower Upper
 112 100
 64 54.3 47.9 71.9
 63 27.3 23.7 35.5





#7

Phenol-d6

Concen: 15.26 ng

RT: 6.469 min Scan# 74

Delta R.T. -0.029 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampled :

CL-02-101617-B

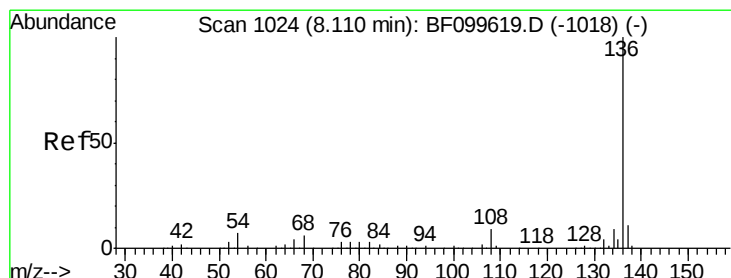
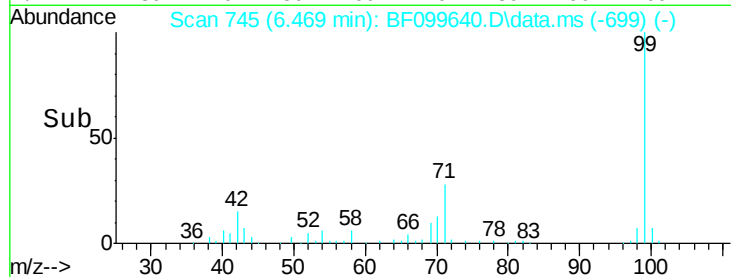
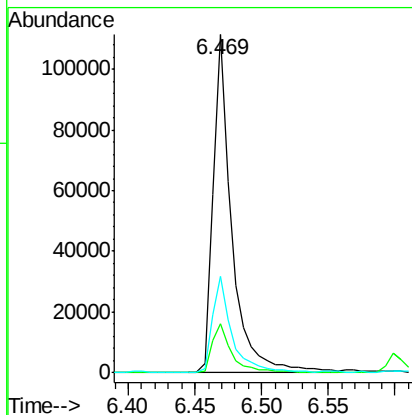
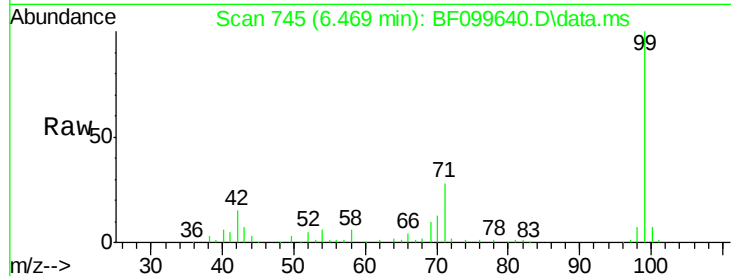
Tot Ion: 99 Resp: 109972

Ion Ratio Lower Upper

99 100

42 14.5 14.5 21.7

71 28.4 25.4 38.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.110 min Scan# 1024

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion: 136 Resp: 336681

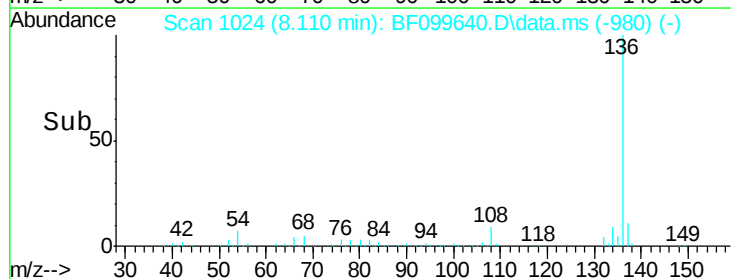
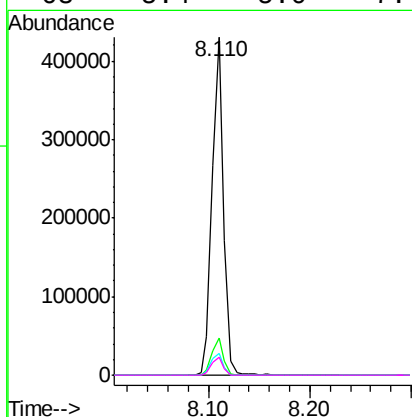
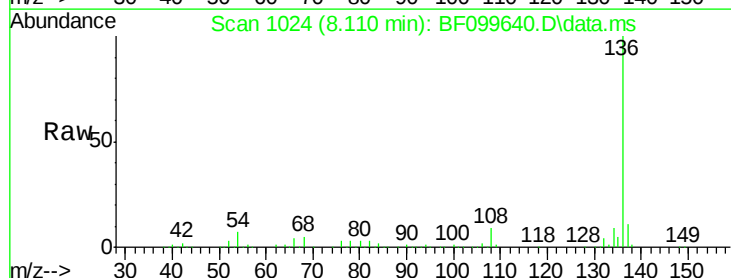
Ion Ratio Lower Upper

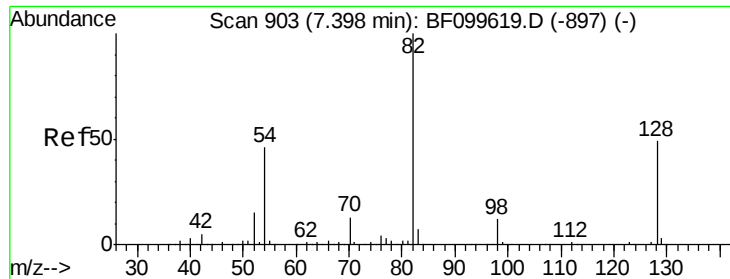
136 100

137 10.9 8.9 13.3

54 6.7 6.6 9.8

68 5.4 5.0 7.4

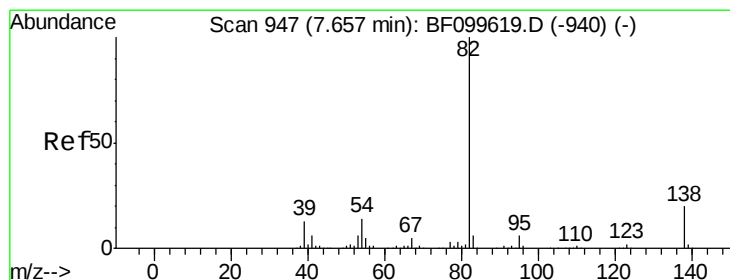
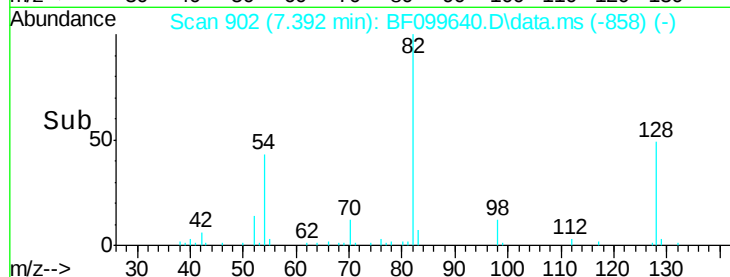
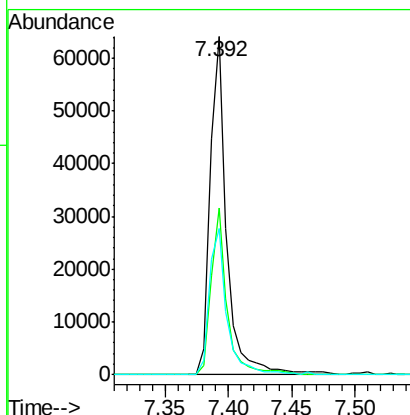
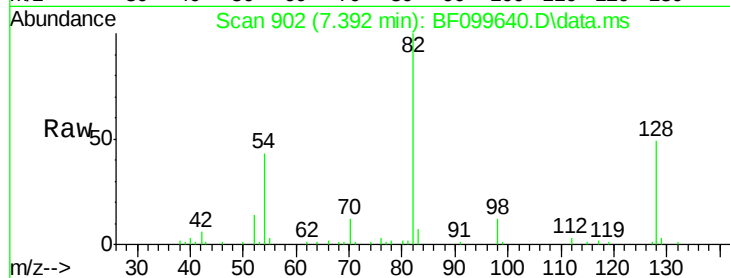




#23
Nitrobenzene-d5
Concen: 11.26 ng
RT: 7.392 min Scan# 90
Delta R.T. -0.041 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

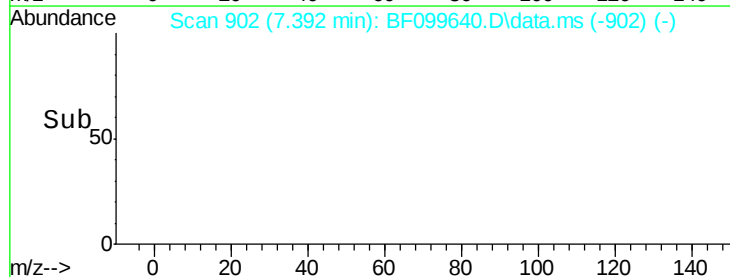
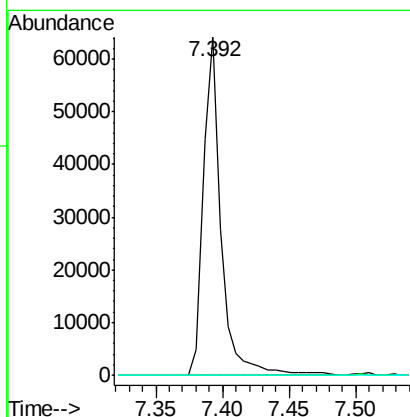
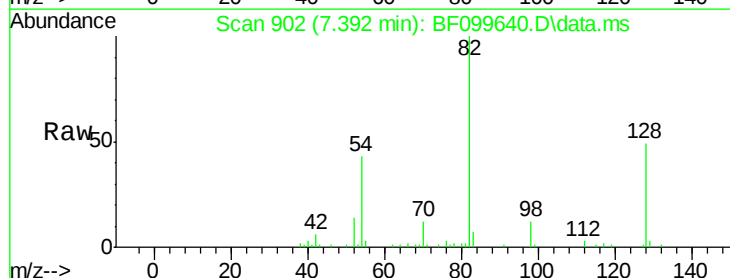
Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

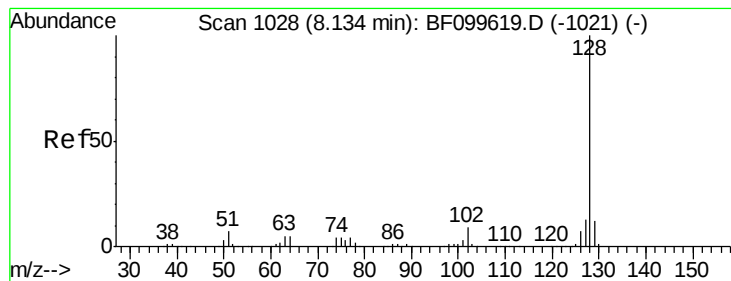
Tot Ion	82	Resp	59138
Ion Ratio	Lower	Upper	
82	100		
128	49.2	36.1	54.1
54	43.2	41.4	62.2



#25
Isophorone
Concen: 5.45 ng
RT: 7.392 min Scan# 902
Delta R.T. -0.300 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	82	Resp	59137
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#





#31

Naphthalene

Concen: 8.63 ng

RT: 8.128 min Scan# 1028

Delta R.T. -0.047 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

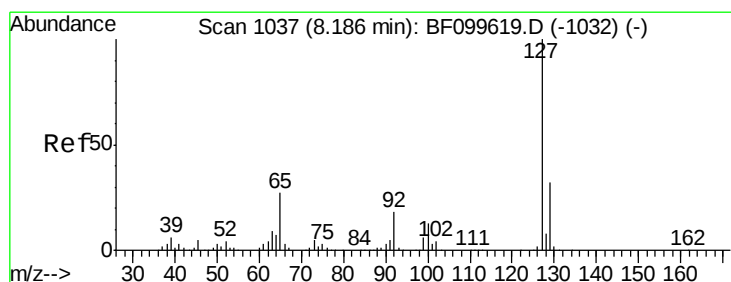
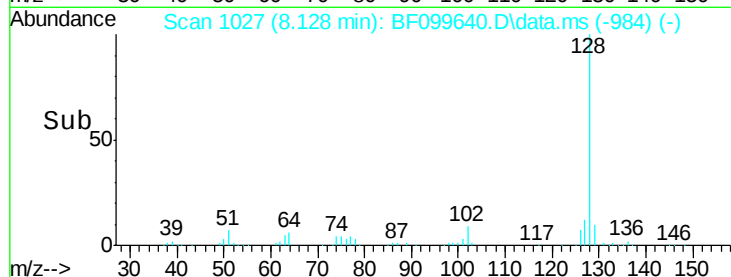
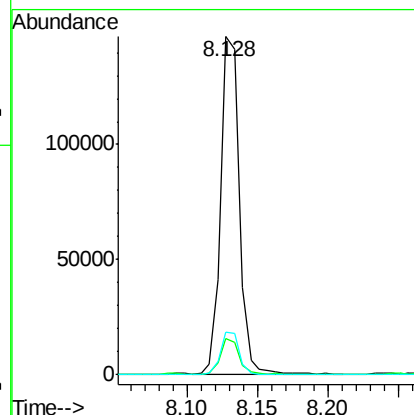
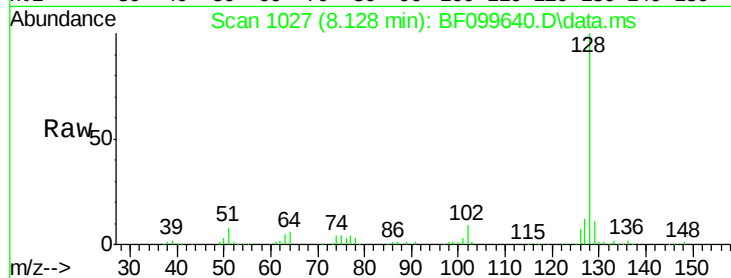
Tot Ion:128 Resp: 136393

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

127 12.4 10.9 16.3



#33

4-Chloroaniline

Concen: 2.58 ng

RT: 8.128 min Scan# 1027

Delta R.T. -0.094 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:127 Resp: 17006

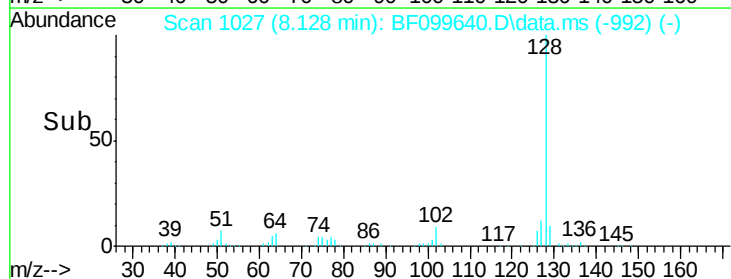
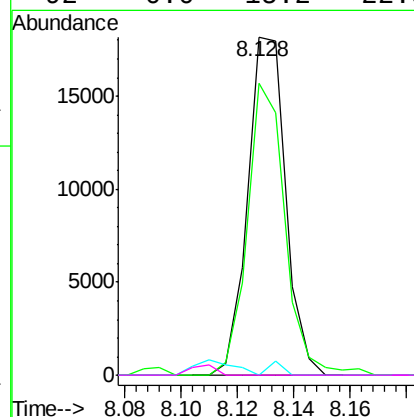
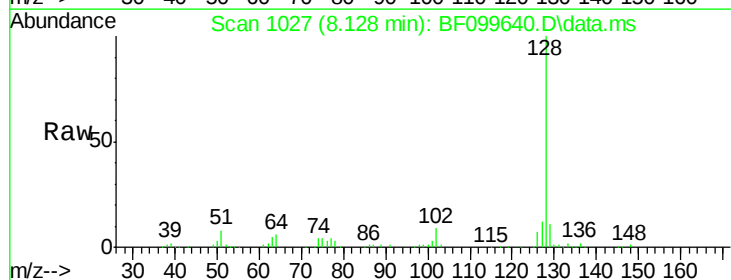
Ion Ratio Lower Upper

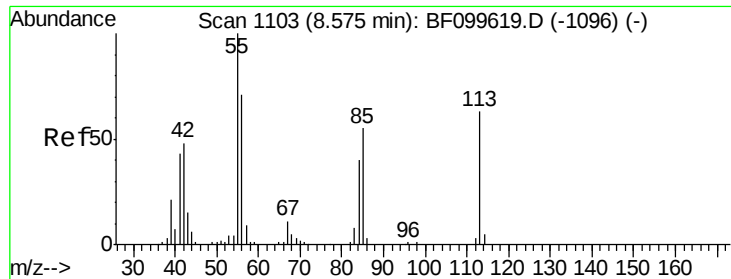
127 100

129 86.3 25.9 38.9#

65 0.0 25.0 37.4#

92 0.0 15.2 22.8#





#35

Caprolactam

Concen: 3.08 ng

RT: 8.822 min Scan# 111

Delta R.T. 0.212 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

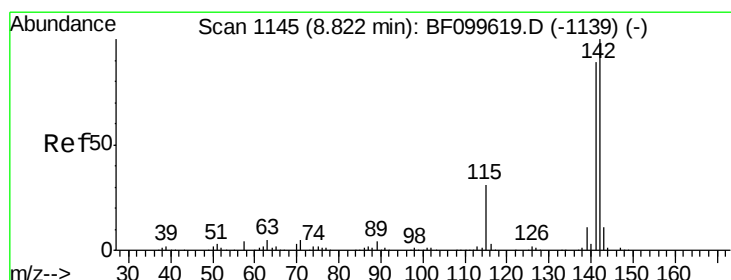
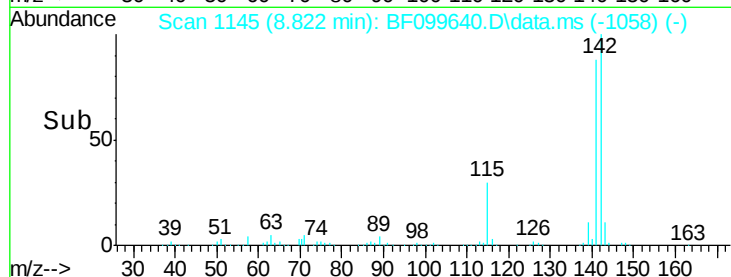
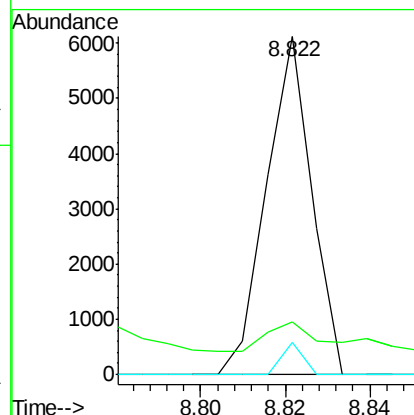
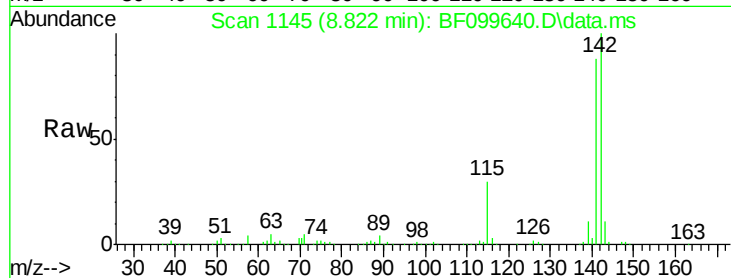
Tot Ion:113 Resp: 4592

Ion Ratio Lower Upper

113 100

55 15.6 163.3 203.3#

56 9.5 115.7 155.7#



#37

2-Methylnaphthalene

Concen: 23.31 ng

RT: 8.822 min Scan# 1145

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

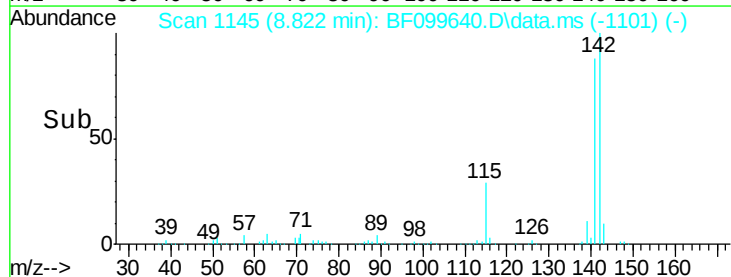
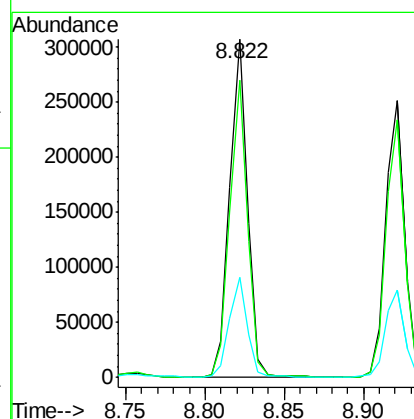
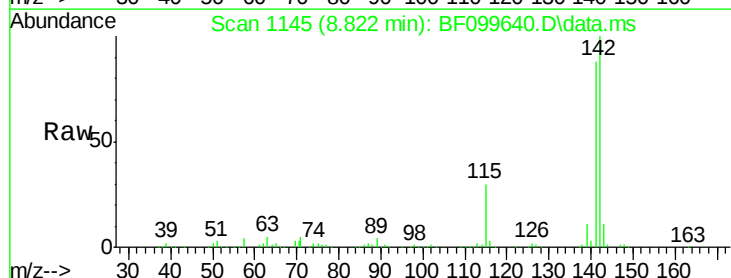
Tgt Ion:142 Resp: 239589

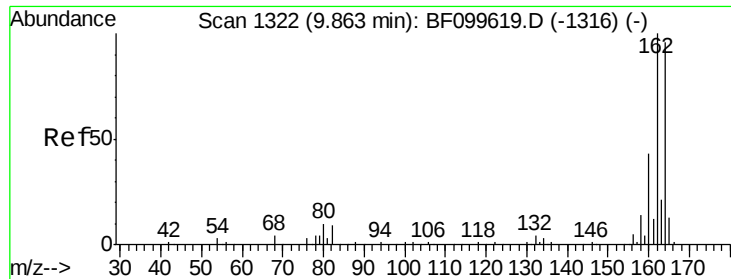
Ion Ratio Lower Upper

142 100

141 88.0 70.8 106.2

115 29.5 26.1 39.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.863 min Scan# 1322

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

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CL-02-101617-B

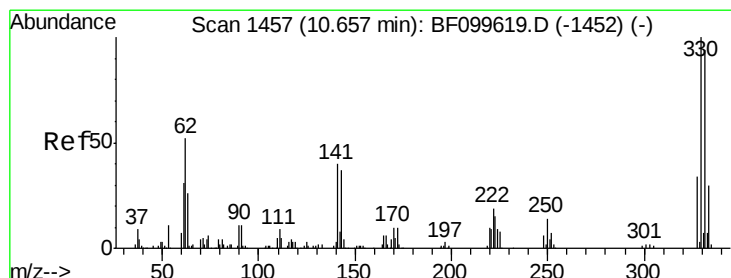
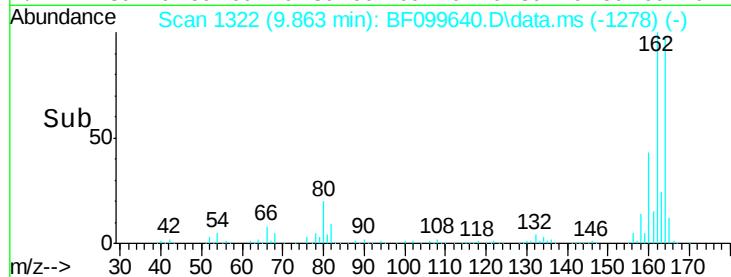
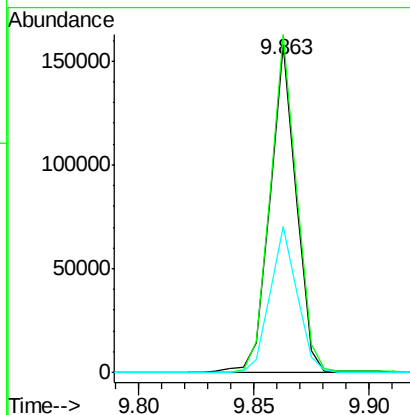
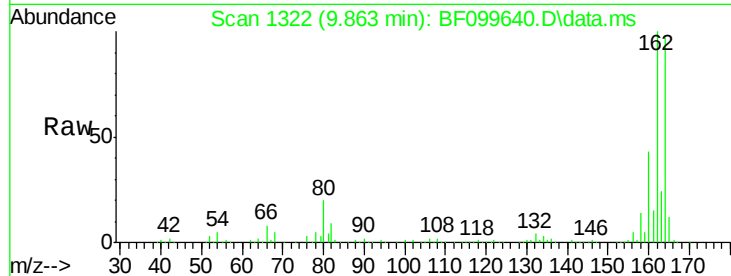
Tot Ion:164 Resp: 125107

Ion Ratio Lower Upper

164 100

162 103.0 86.1 129.1

160 44.7 38.3 57.5



#41

2,4,6-Tribromophenol

Concen: 14.58 ng

RT: 10.657 min Scan# 1457

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

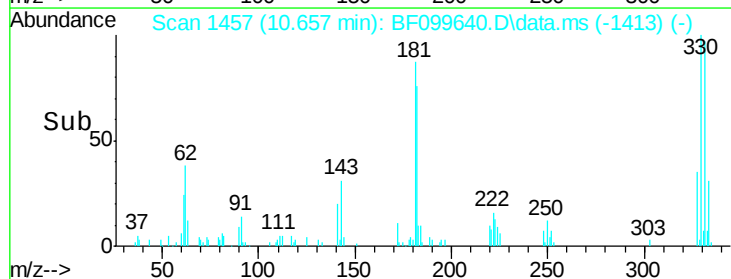
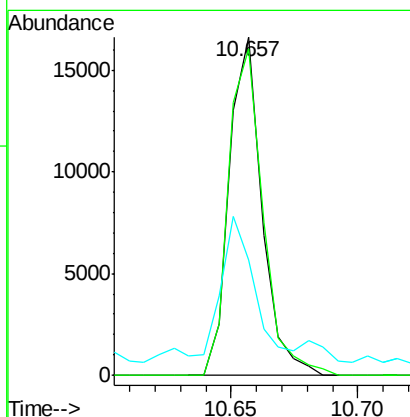
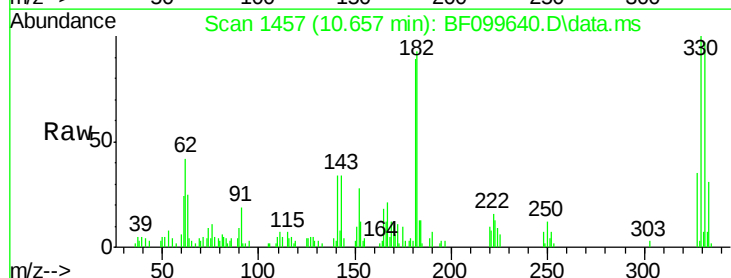
Tgt Ion:330 Resp: 14924

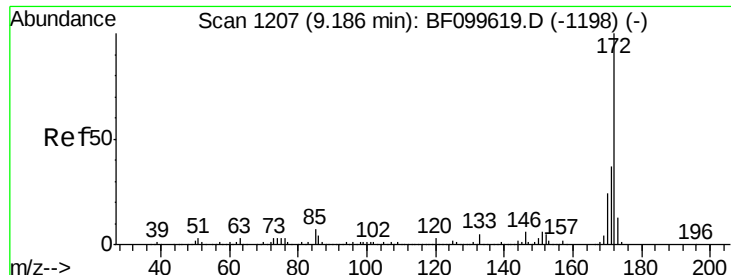
Ion Ratio Lower Upper

330 100

332 101.8 77.0 115.6

141 48.2 29.9 44.9#

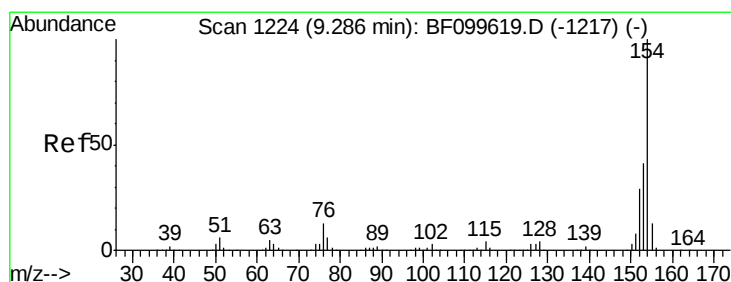
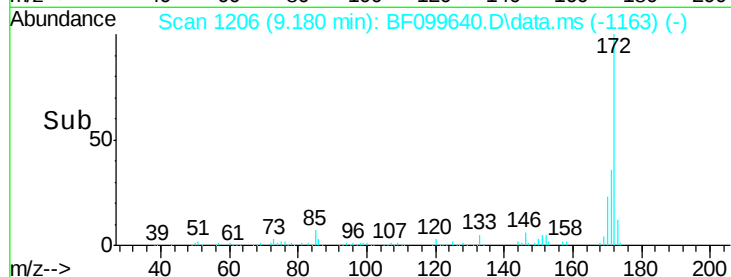
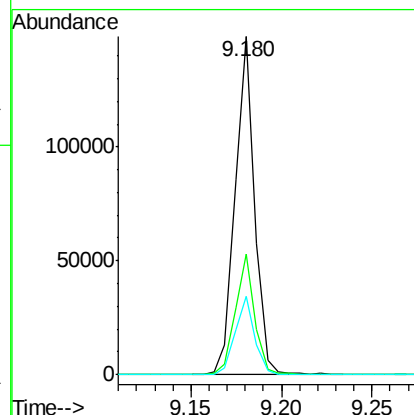
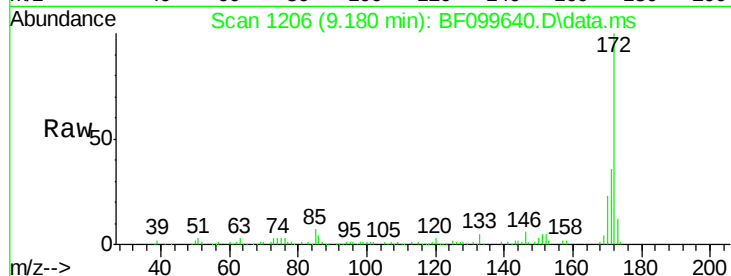




#44
2-Fluorobiphenyl
Concen: 14.86 ng
RT: 9.180 min Scan# 12
Delta R.T. -0.047 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

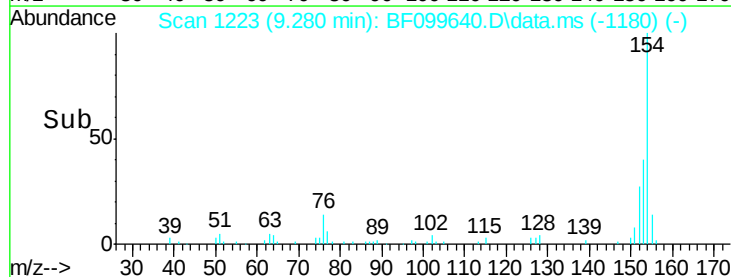
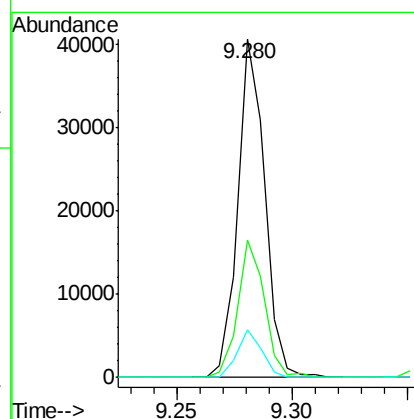
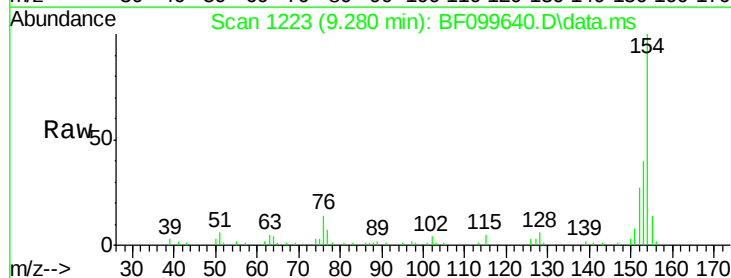
Instrument :
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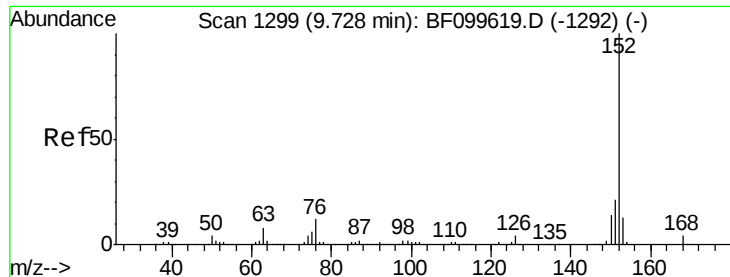
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	23.0	19.6	29.4



#45
1,1'-Biphenyl
Concen: 3.08 ng
RT: 9.280 min Scan# 1223
Delta R.T. -0.047 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.4	21.3	61.3
76	14.0	0.0	34.0





#48

Acenaphthylene

Concen: 11.00 ng

RT: 9.727 min Scan# 1299

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

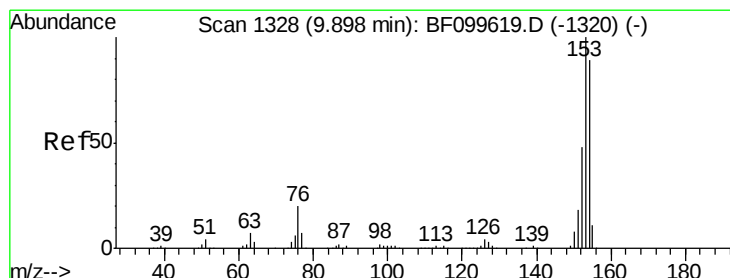
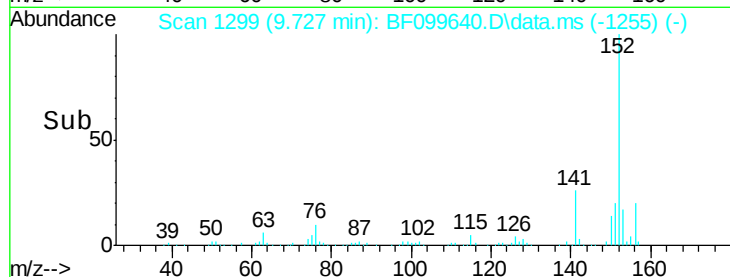
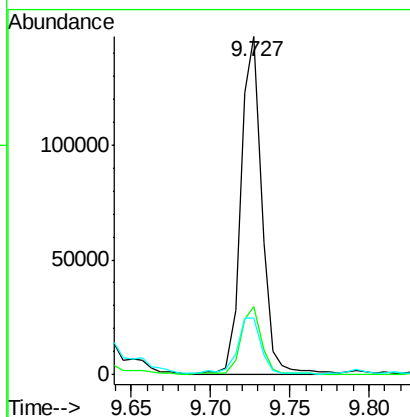
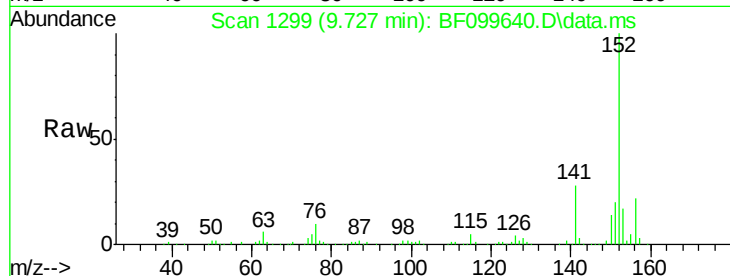
Tot Ion:152 Resp: 135927

Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 16.8 10.7 16.1#



#51

Acenaphthene

Concen: 4.78 ng

RT: 9.898 min Scan# 1328

Delta R.T. -0.047 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

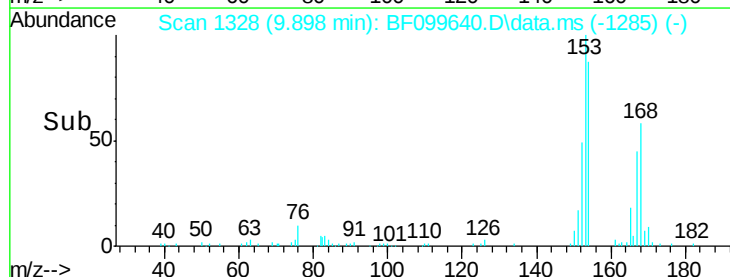
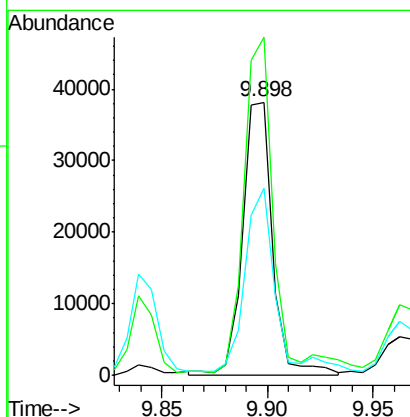
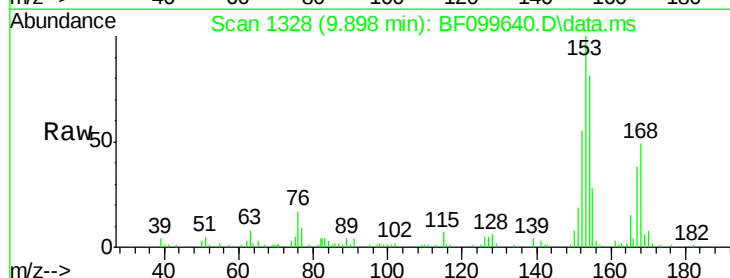
Tgt Ion:154 Resp: 37441

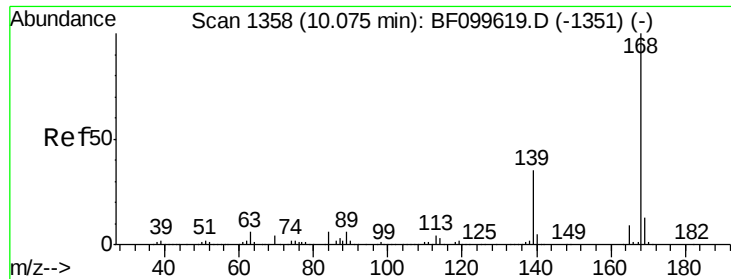
Ion Ratio Lower Upper

154 100

153 123.8 91.2 136.8

152 68.7 43.8 65.8#





#54

Dibenzenofuran

Concen: 2.41 ng

RT: 10.069 min Scan# 1357

Delta R.T. -0.047 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

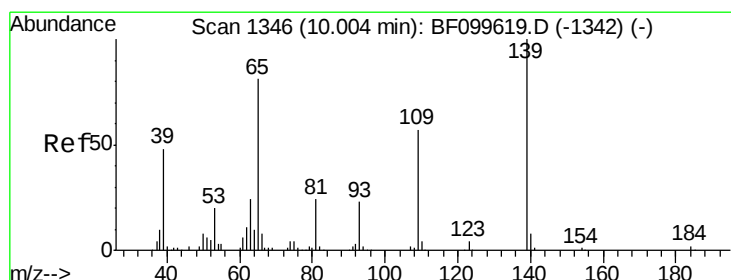
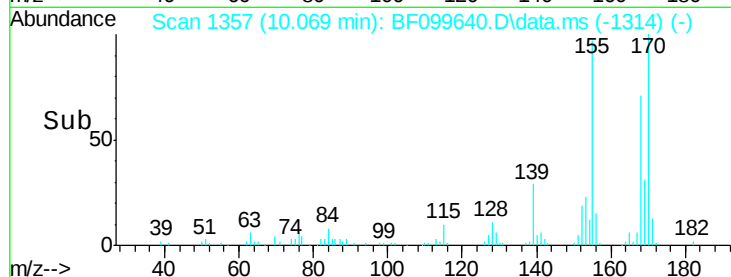
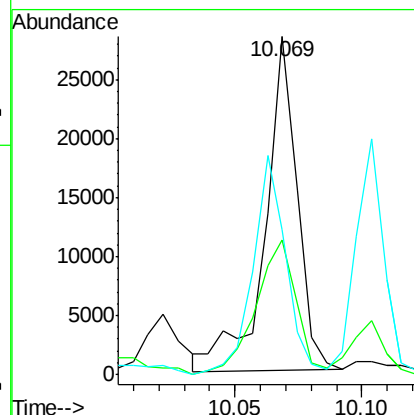
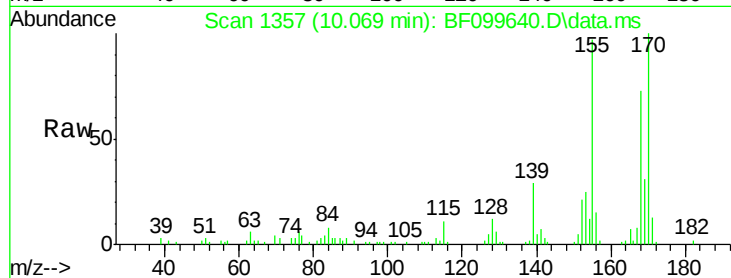
Tot Ion:168 Resp: 25164

Ion Ratio Lower Upper

168 100

139 39.8 30.1 45.1

169 42.8 10.9 16.3#



#55

4-Nitrophenol

Concen: 2.59 ng

RT: 9.963 min Scan# 1339

Delta R.T. -0.059 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

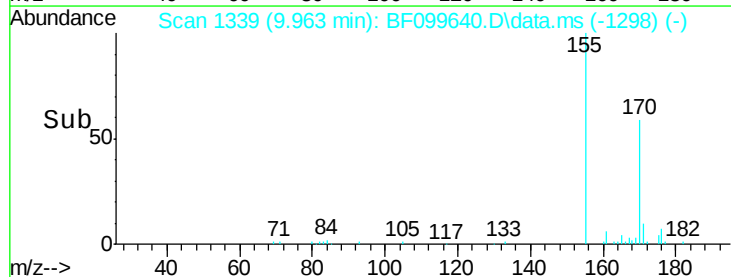
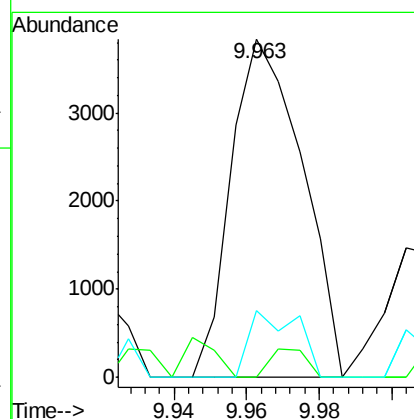
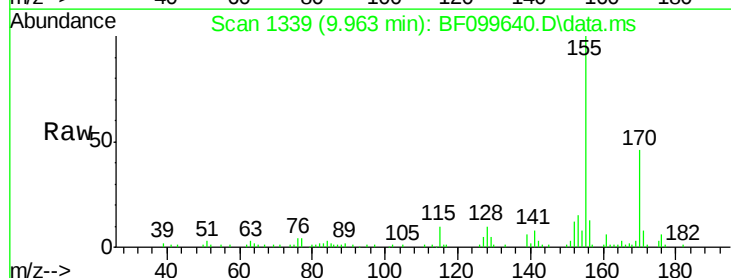
Tgt Ion:139 Resp: 5250

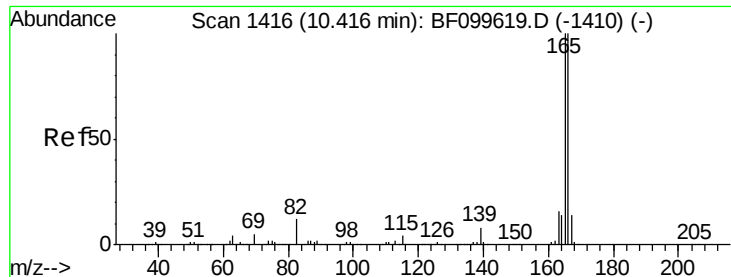
Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

65 19.6 72.6 112.6#

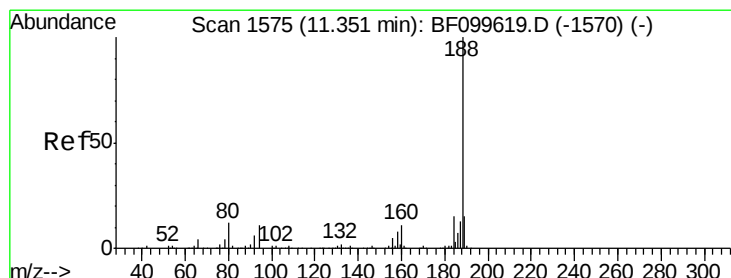
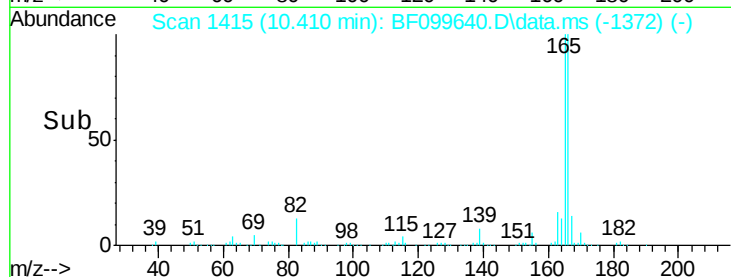
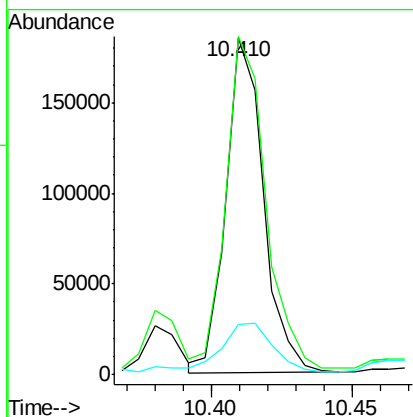
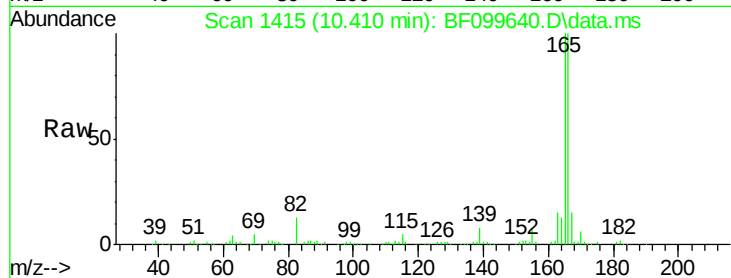




#57
Fluorene
 Concen: 20.23 ng
 RT: 10.410 min Scan# 1416
 Delta R.T. -0.047 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

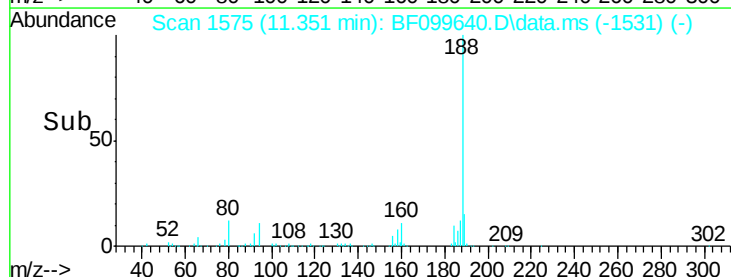
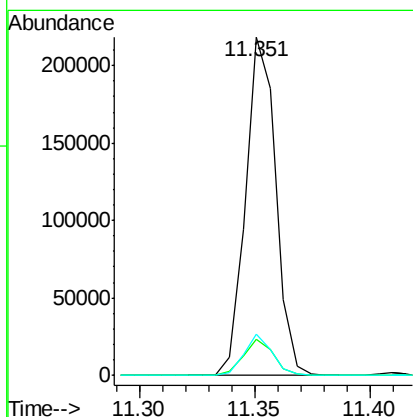
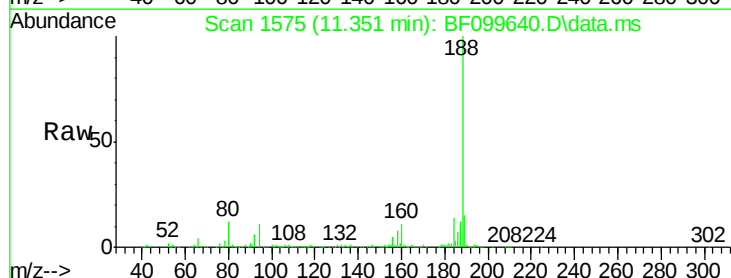
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

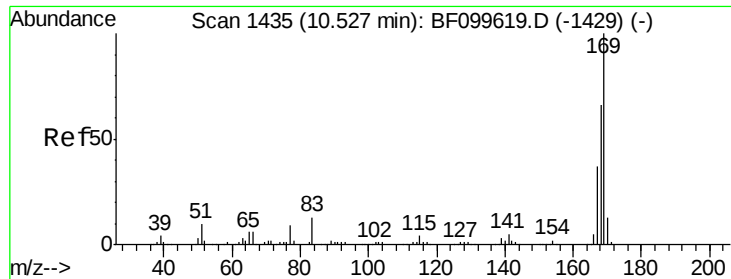
Tot Ion	Ratio	Lower	Upper
166	100		
165	100.2	79.8	119.8
167	14.9	10.6	16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.351 min Scan# 1575
 Delta R.T. -0.041 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.5	12.7
80	12.0	9.2	13.8

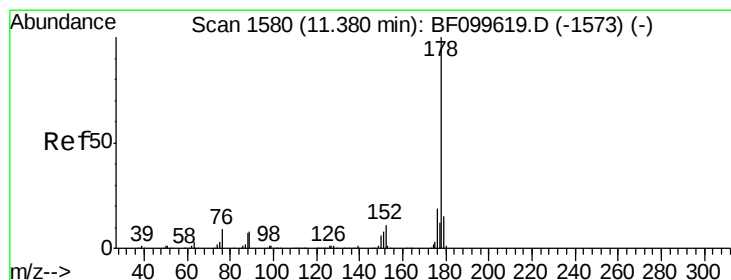
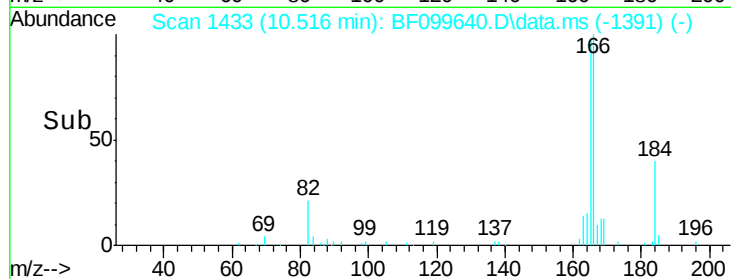
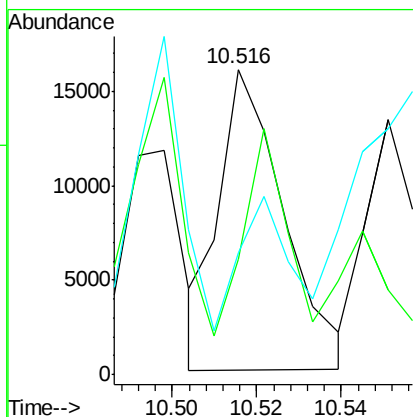
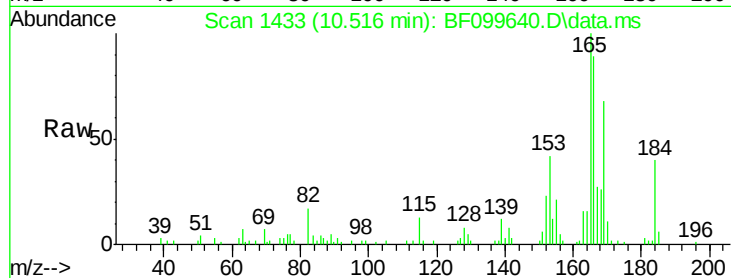




#65
n-Nitrosodiphenylamine
Concen: 2.45 ng
RT: 10.516 min Scan# 1435
Delta R.T. -0.053 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

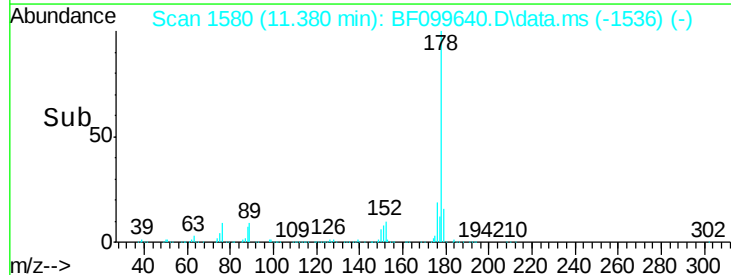
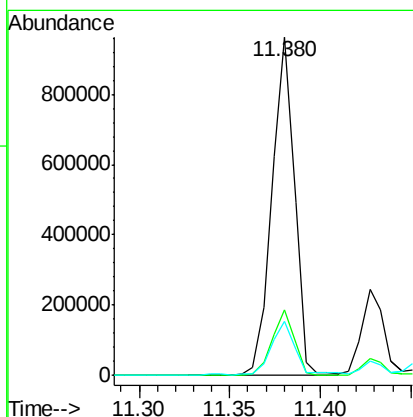
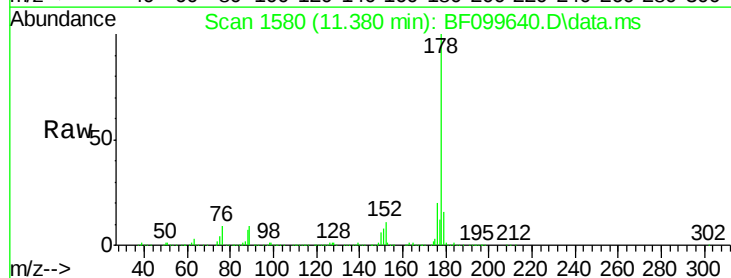
Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

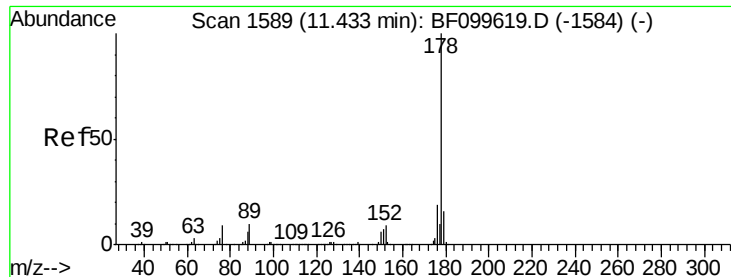
Tot Ion:169 Resp: 16990
Ion Ratio Lower Upper
169 100
168 37.7 54.4 81.6#
167 39.9 29.8 44.6



#70
Phenanthrene
Concen: 77.46 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.041 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion:178 Resp: 828503
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 16.1 13.0 19.6

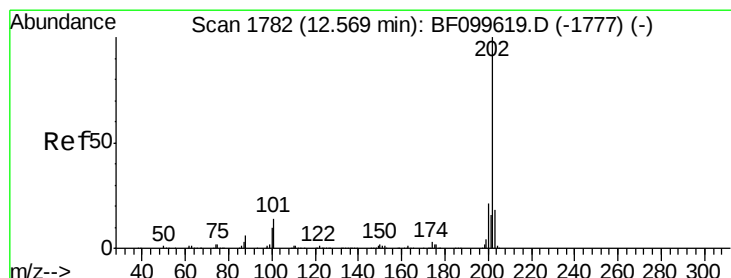
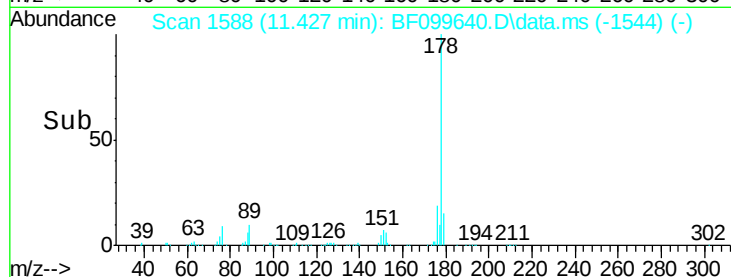
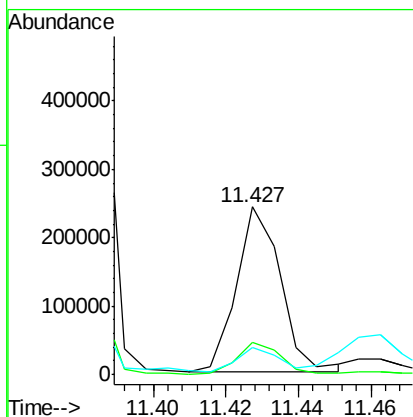
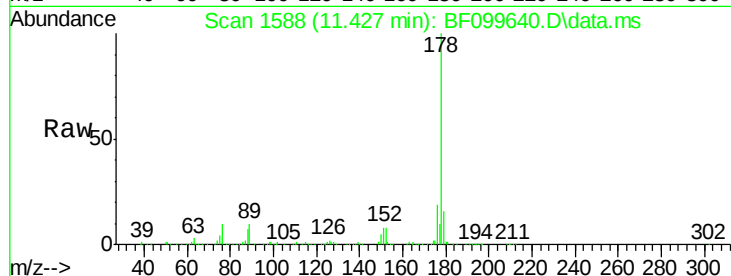




#71
 Anthracene
 Concen: 18.52 ng
 RT: 11.427 min Scan# 1589
 Delta R.T. -0.041 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

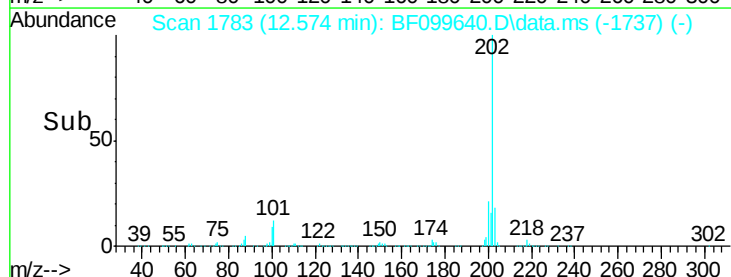
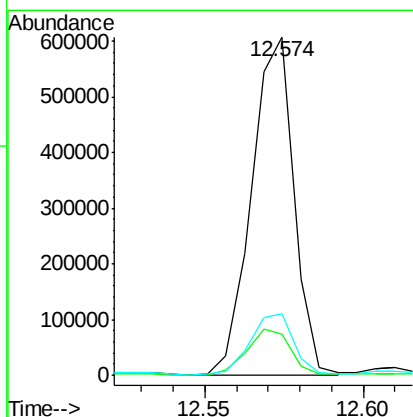
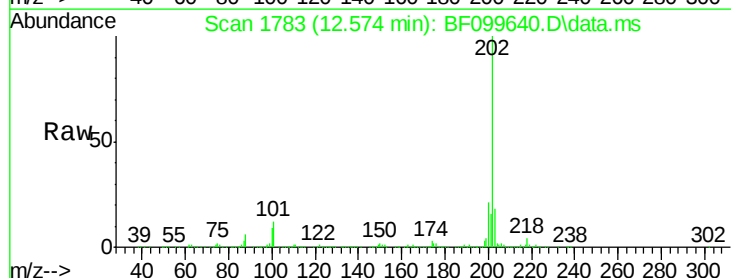
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

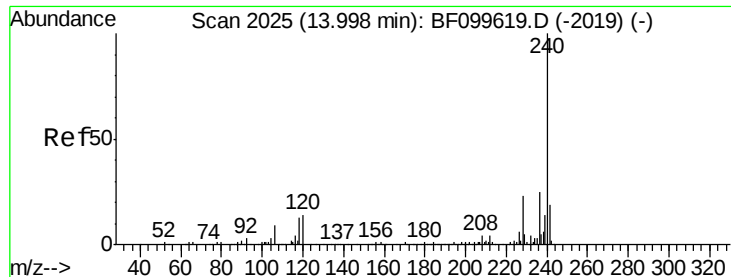
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	16.3	12.6	19.0



#74
 Fluoranthene
 Concen: 51.73 ng
 RT: 12.574 min Scan# 1783
 Delta R.T. -0.029 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	34.1
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.998 min Scan# 20

Delta R.T. -0.035 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

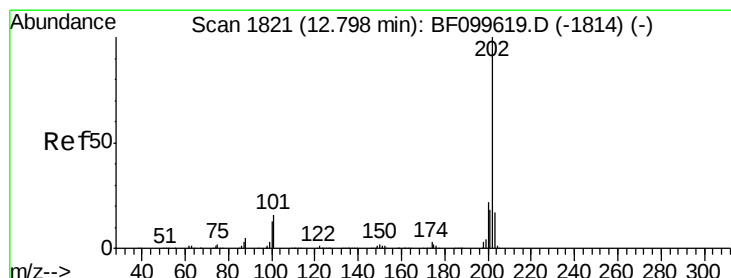
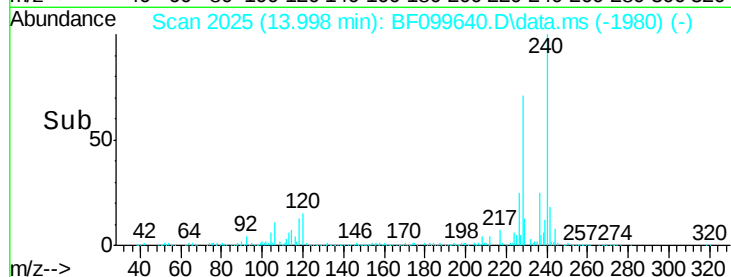
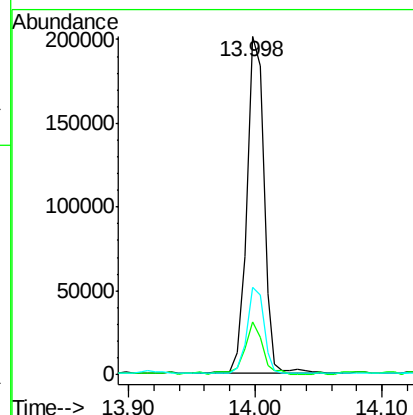
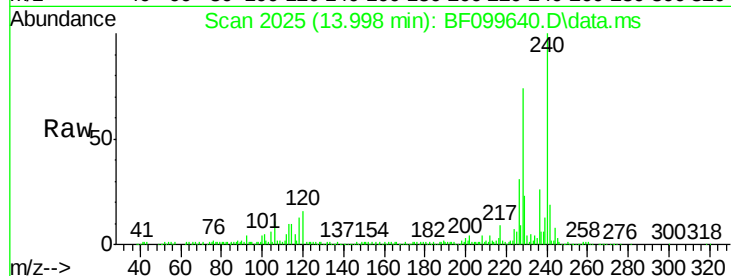
Tot Ion:240 Resp: 187782

Ion Ratio Lower Upper

240 100

120 15.6 9.5 14.3#

236 25.7 20.7 31.1



#77

Pyrene

Concen: 55.70 ng

RT: 12.804 min Scan# 1822

Delta R.T. -0.035 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

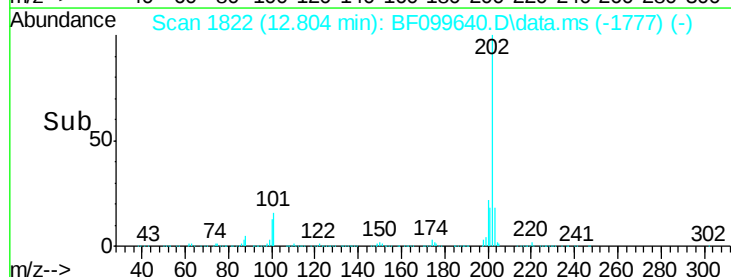
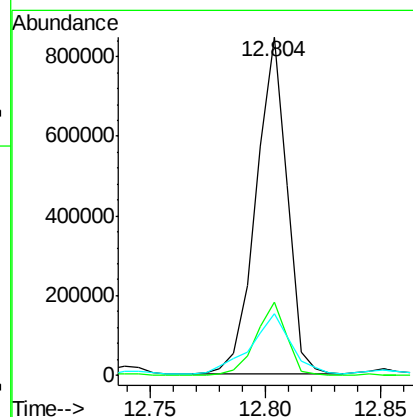
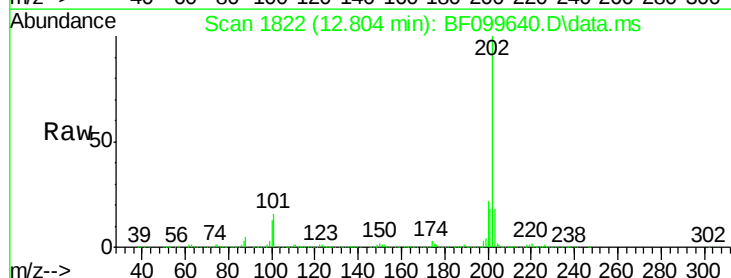
Tgt Ion:202 Resp: 797519

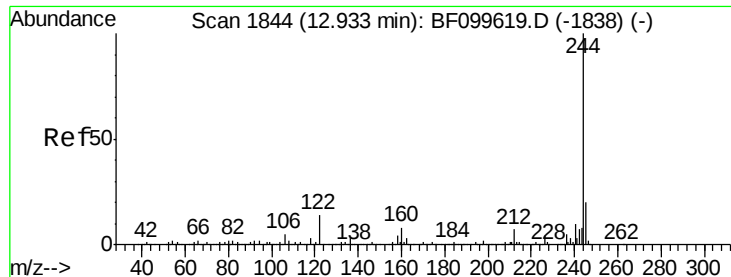
Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

203 18.3 14.3 21.5





#78

Terphenyl-d14

Concen: 10.27 ng

RT: 12.933 min Scan# 18

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

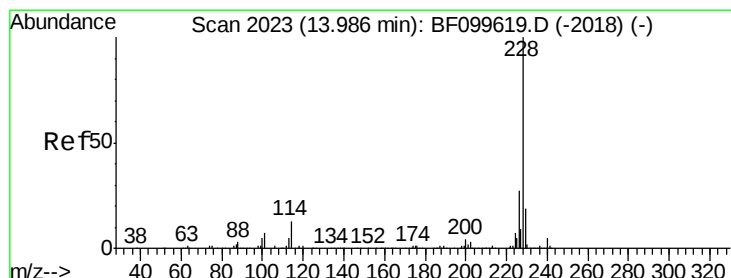
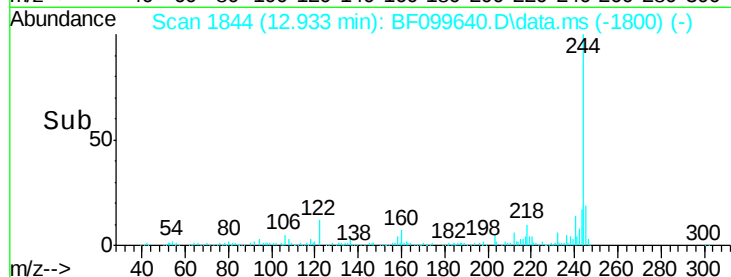
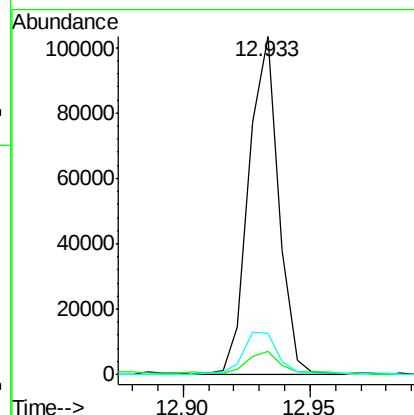
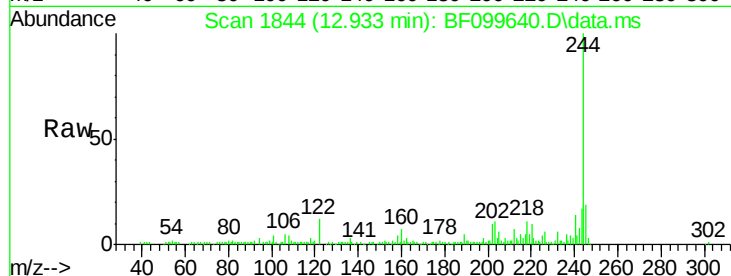
Tot Ion:244 Resp: 84788

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 12.0 11.0 16.4



#80

Benzo(a)anthracene

Concen: 30.87 ng

RT: 14.027 min Scan# 2030

Delta R.T. 0.006 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

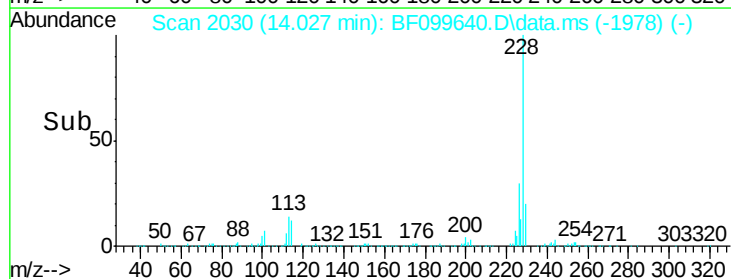
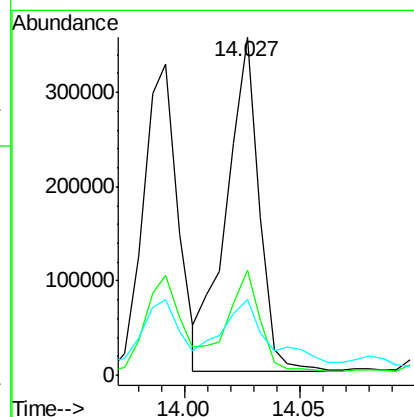
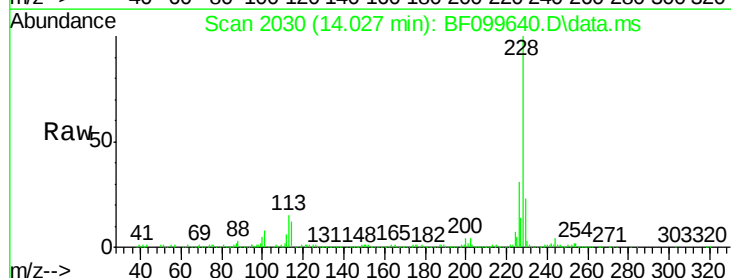
Tgt Ion:228 Resp: 351010

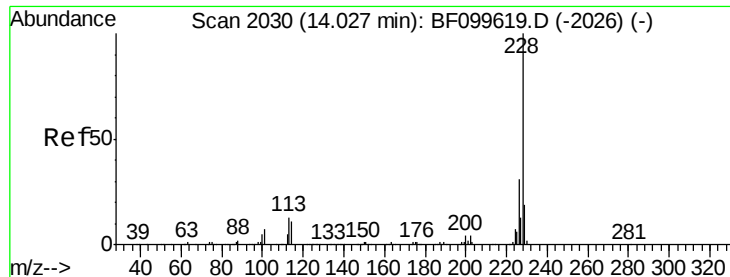
Ion Ratio Lower Upper

228 100

226 31.2 22.6 33.8

229 22.5 15.8 23.6





#82

Chrysene

Concen: 32.42 ng

RT: 14.027 min Scan# 20

Delta R.T. -0.035 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

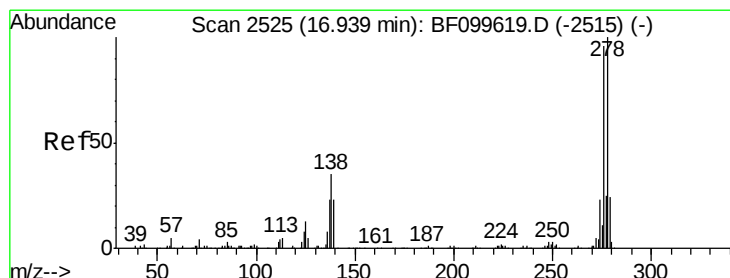
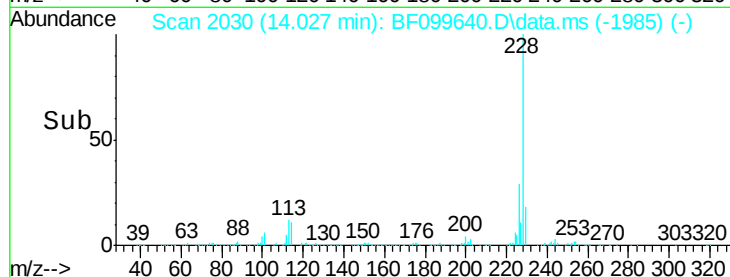
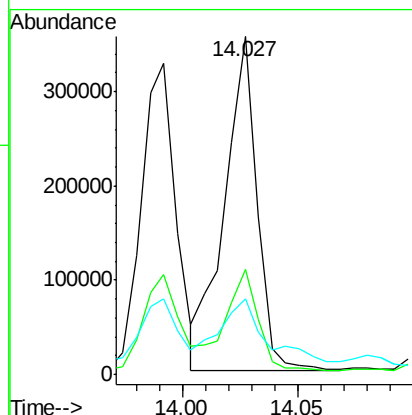
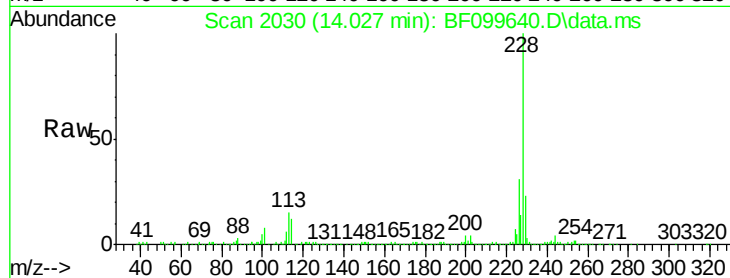
Tot Ion:228 Resp: 351010

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

229 22.5 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.78 ng

RT: 16.945 min Scan# 2526

Delta R.T. -0.047 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

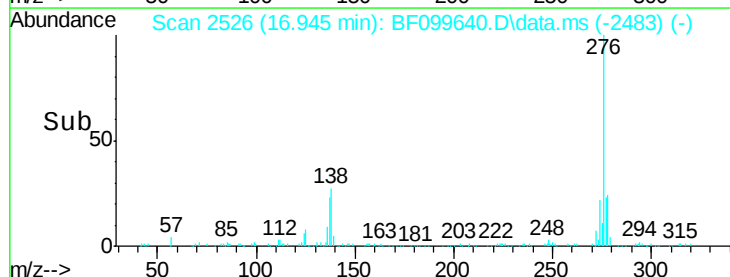
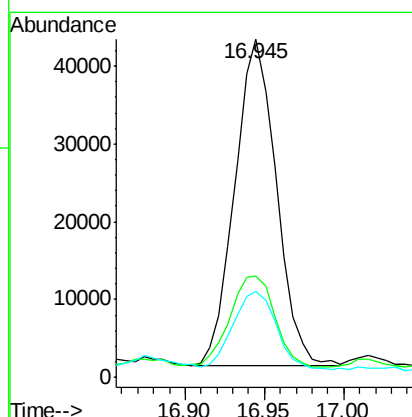
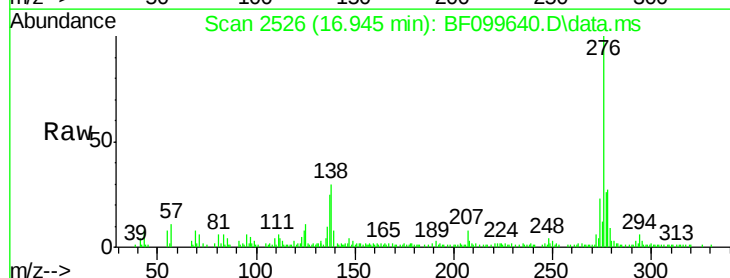
Tgt Ion:276 Resp: 76012

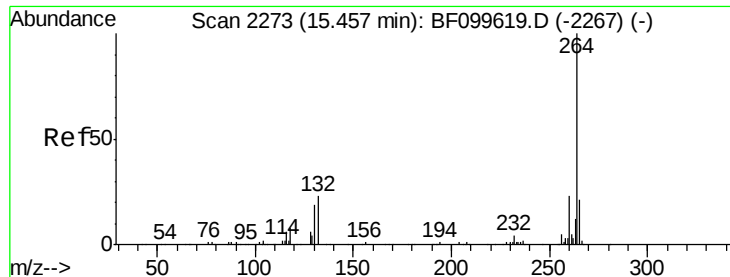
Ion Ratio Lower Upper

276 100

138 30.6 25.0 37.6

277 25.2 20.1 30.1

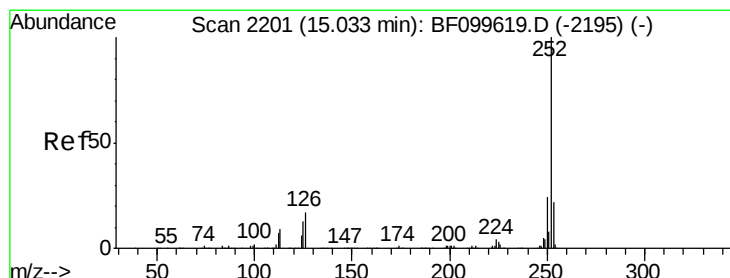
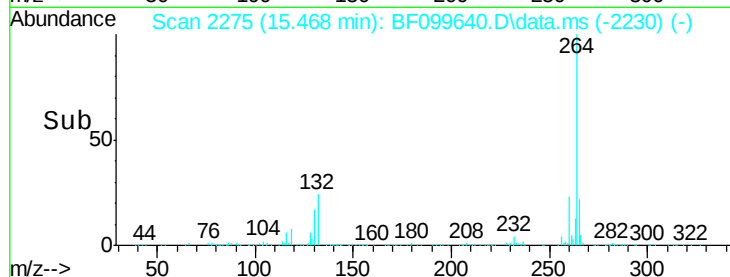
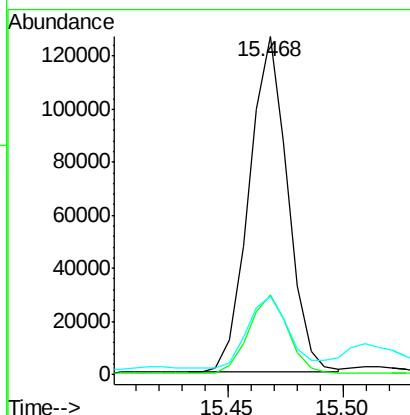
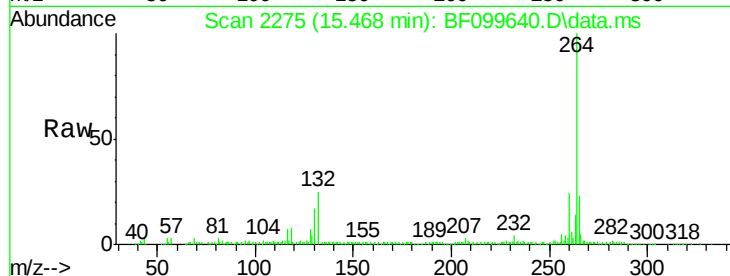




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.468 min Scan# 2273
Delta R.T. -0.035 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

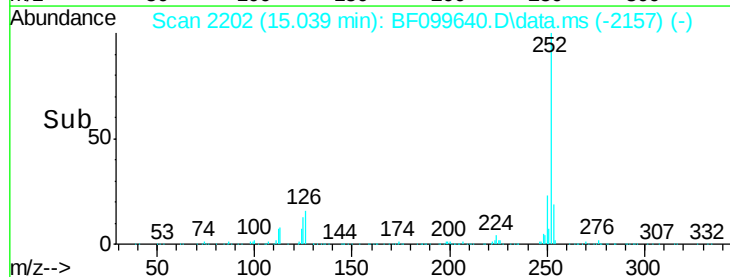
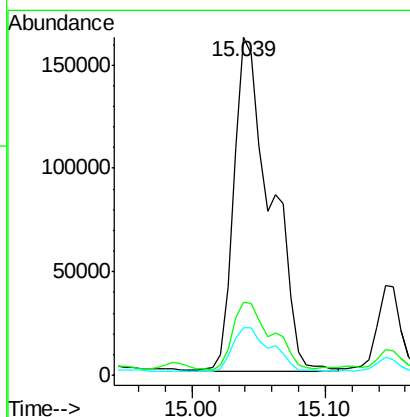
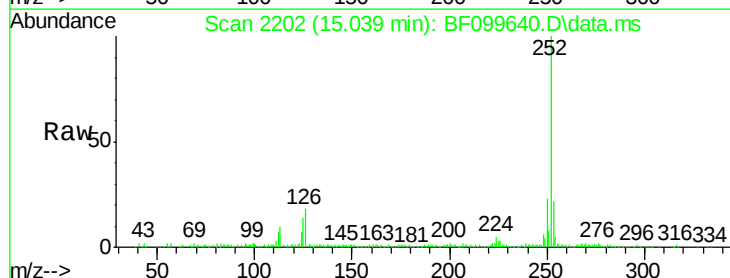
Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

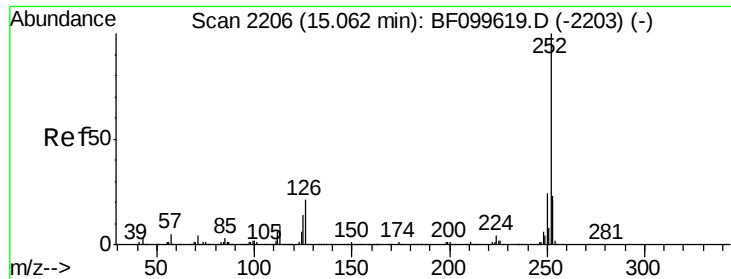
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.3	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 34.07 ng
RT: 15.039 min Scan# 2202
Delta R.T. -0.035 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.0	25.6
125	14.0	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 34.45 ng

RT: 15.039 min Scan# 2206

Delta R.T. -0.071 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

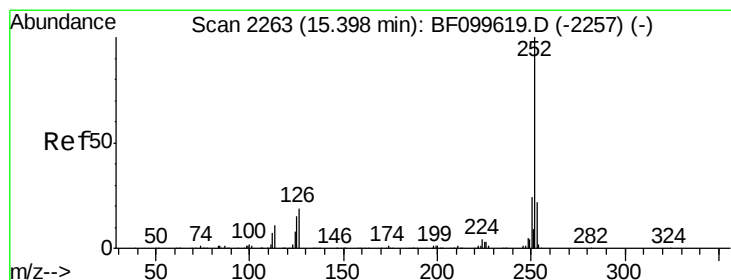
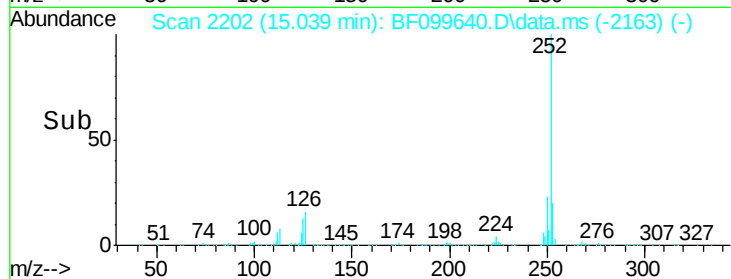
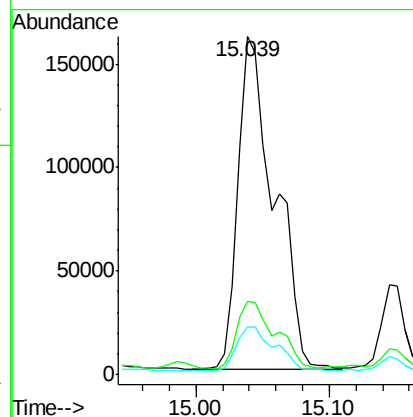
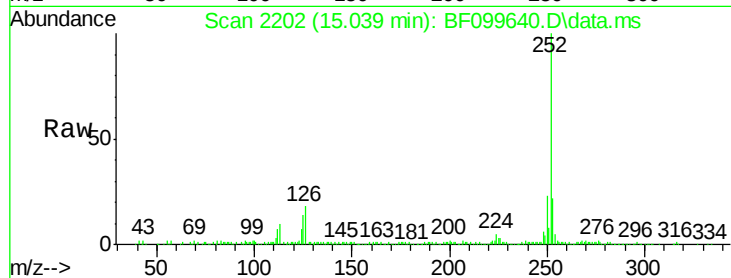
Tot Ion:252 Resp: 309405

Ion Ratio Lower Upper

252 100

253 21.6 17.9 26.9

125 14.0 10.2 15.2



#89

Benzo(a)pyrene

Concen: 23.55 ng

RT: 15.404 min Scan# 2264

Delta R.T. -0.041 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

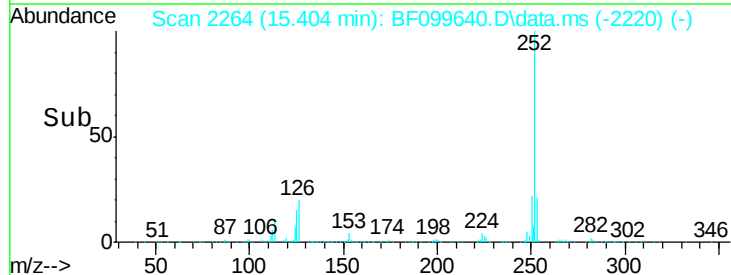
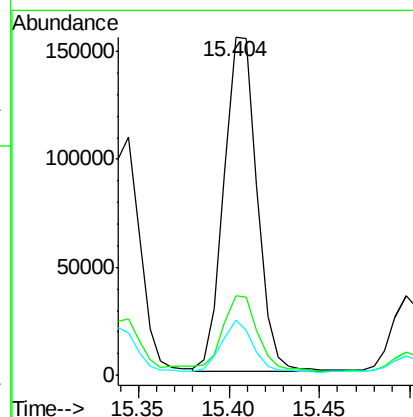
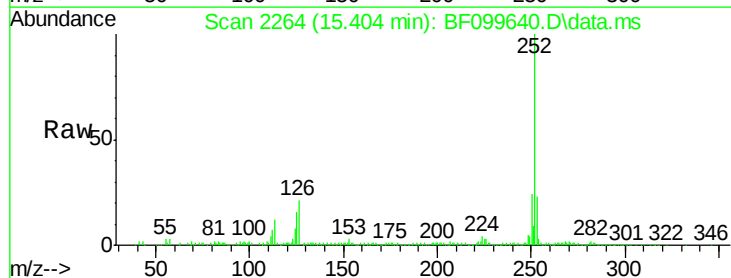
Tgt Ion:252 Resp: 196559

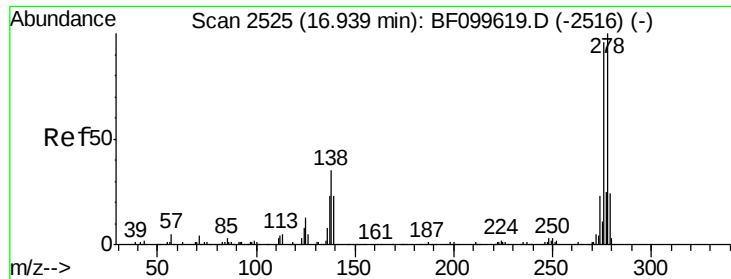
Ion Ratio Lower Upper

252 100

253 23.5 17.1 25.7

125 16.3 9.8 14.6#





#90

Dibenzo(a,h)anthracene

Concen: 3.69 ng

RT: 16.945 min Scan# 25

Delta R.T. -0.065 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-02-101617-B

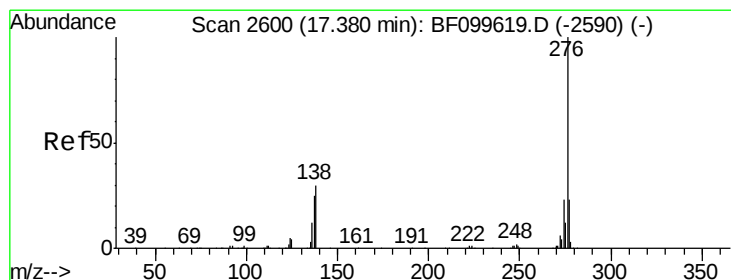
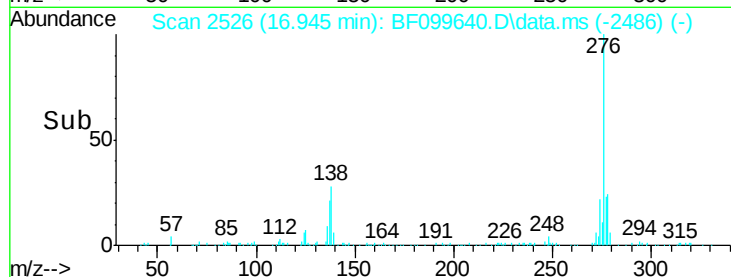
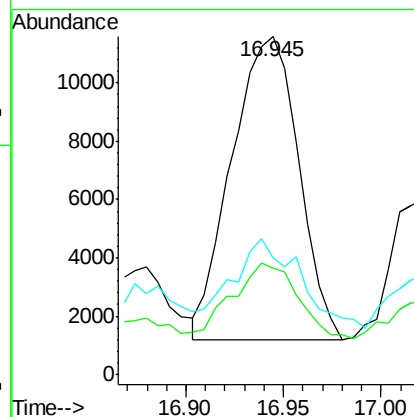
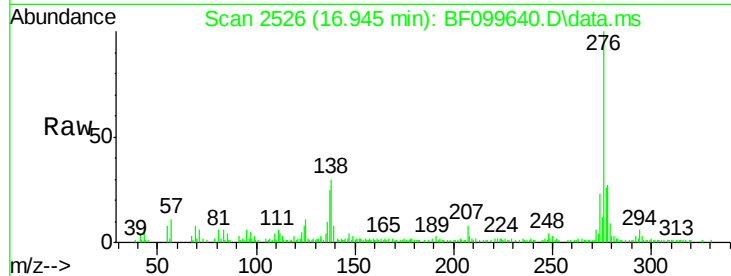
Tot Ion:278 Resp: 24646

Ion Ratio Lower Upper

278 100

139 31.3 15.9 23.9#

279 34.7 19.0 28.4#



#91

Benzo(g,h,i)perylene

Concen: 11.92 ng

RT: 17.398 min Scan# 2603

Delta R.T. -0.047 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:276 Resp: 78719

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 31.2 21.8 32.8

