

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
 Data File : BF104745.D
 Acq On : 24 Apr 2018 9:09
 Operator : JU/SJ
 Sample : J2497-04 5X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 24 11:08:57 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 23 15:38:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	96768	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	381341	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	159561	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	270764	20.00	ng	0.01
75) Chrysene-d12	14.00	240	160922	20.00	ng	0.01
86) Perylene-d12	15.47	264	127481	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	24144	3.82	ng	0.02
7) Phenol-d6	6.46	99	29310	3.77	ng	0.01
23) Nitrobenzene-d5	7.37	82	14762	2.53	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	6416	3.88	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	35026	3.47	ng	0.00
78) Terphenyl-d14	12.93	244	31745	4.50	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.59	77	650	Below Cal		# 83
31) Naphthalene	8.12	128	135728	7.148	ng	98
33) 4-Chloroaniline	8.12	127	16891	2.076	ng	# 33
37) 2-Methylnaphthalene	8.81	142	28441	2.316	ng	96
48) Acenaphthylene	9.72	152	198251	11.934	ng	99
50) 2,6-Dinitrotoluene	9.85	165	22000	9.449	ng	# 27
51) Acenaphthene	9.89	154	32098	3.167	ng	99
54) Dibenzofuran	10.06	168	40700	2.881	ng	# 97
55) 4-Nitrophenol	10.06	139	17296	8.078	ng	# 12
57) Fluorene	10.40	166	88014	8.561	ng	100
70) Phenanthrene	11.37	178	513313	34.042	ng	99
71) Anthracene	11.42	178	210183	13.713	ng	99
74) Fluoranthene	12.57	202	704481	44.717	ng	96
76) Benzidine	12.69	184	584	Below Cal		# 1
77) Pyrene	12.80	202	680467	57.047	ng	99
80) Benzo(a)anthracene	14.02	228	235127	24.458	ng	95
82) Chrysene	14.02	228	235127	23.811	ng	99
84) Di-n-octyl phthalate	14.77	149	121527	10.062	ng	# 75
85) Indeno(1,2,3-cd)pyrene	16.78	276	22086	2.633	ng	94
87) Benzo(b)fluoranthene	15.04	252	349610	43.422	ng	# 93
88) Benzo(k)fluoranthene	15.04	252	349610	45.993	ng	# 96
89) Benzo(a)pyrene	15.41	252	204170	28.341	ng	# 91
90) Dibenzo(a,h)anthracene	16.94	278	31569	5.336	ng	# 73
91) Benzo(g,h,i)perylene	17.39	276	157737	27.517	ng	94

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

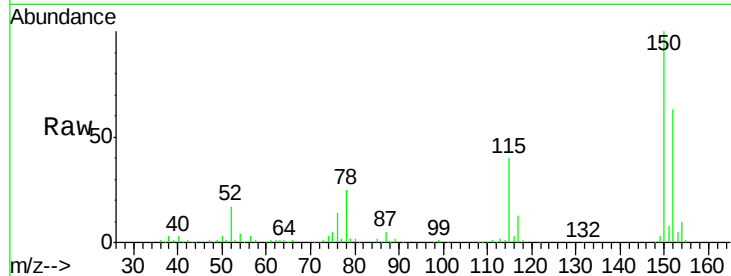


#1

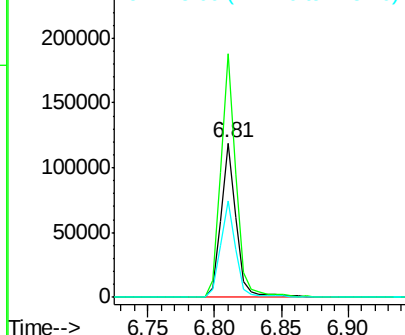
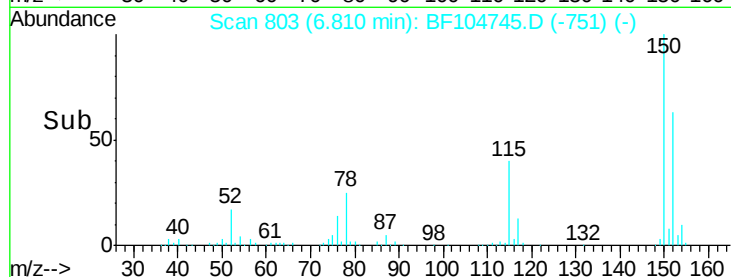
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 96768
Ion Ratio Lower Upper
152 100
150 157.6 124.6 186.8
115 62.5 50.1 75.1



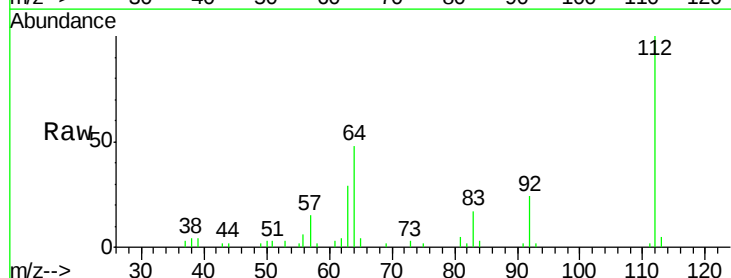
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



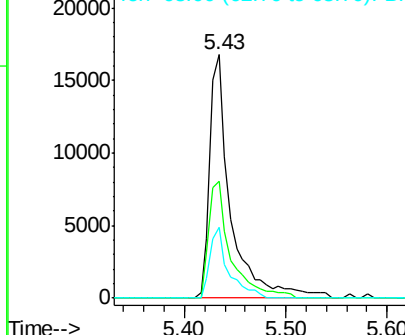
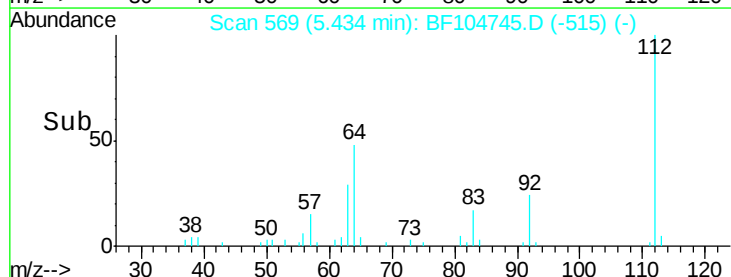
#5

2-Fluorophenol
Concen: 3.815 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:112 Resp: 24144
Ion Ratio Lower Upper
112 100
64 48.1 47.9 71.9
63 29.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 3.769 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.01 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

ClientSampled :

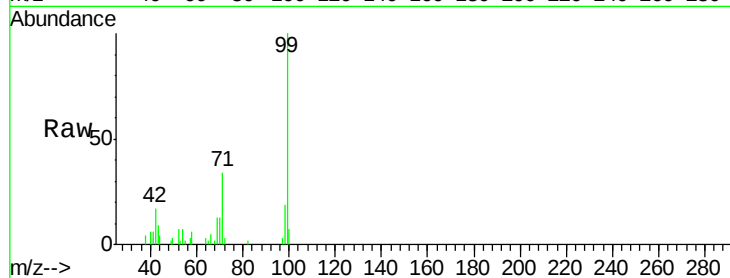
Tot Ion: 99 Resp: 29310

Ion Ratio Lower Upper

99 100

42 17.5 14.5 21.7

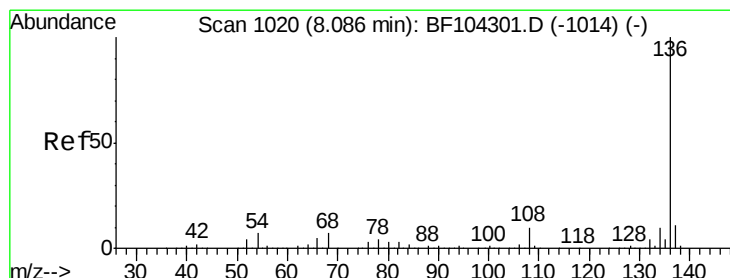
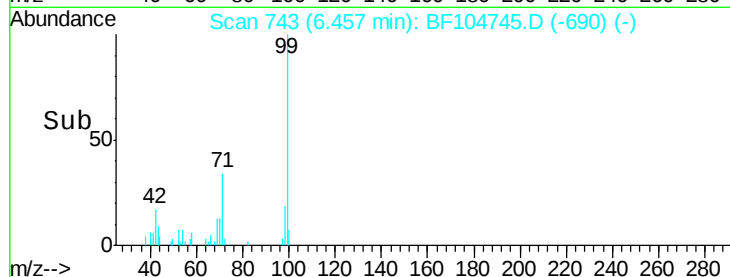
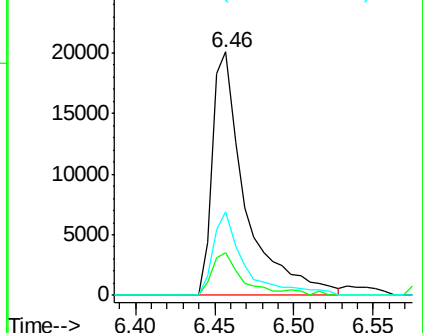
71 34.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Tgt Ion: 136 Resp: 381341

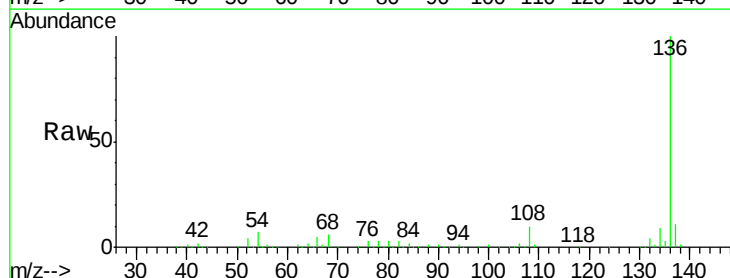
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.1 6.6 9.8

68 6.3 5.0 7.4

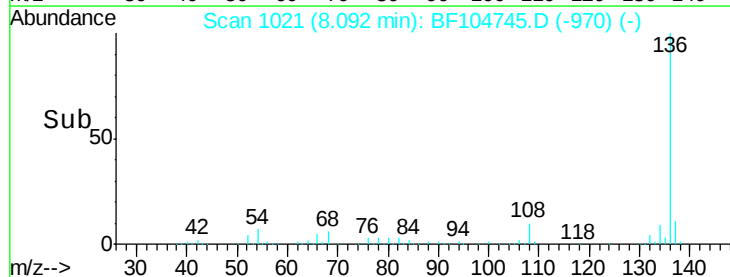
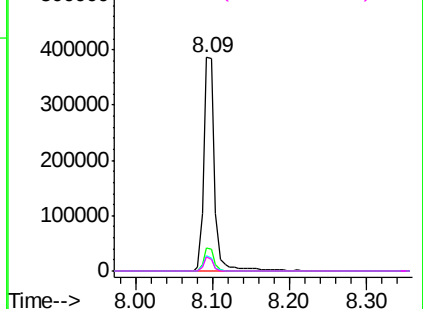


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

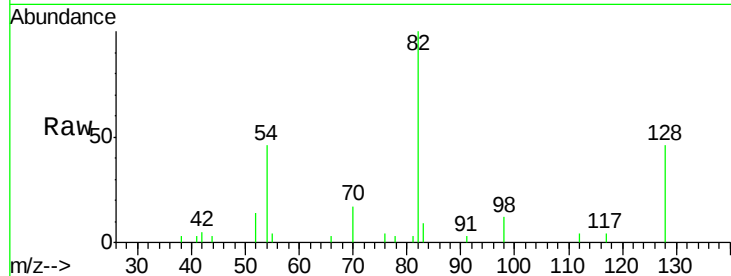




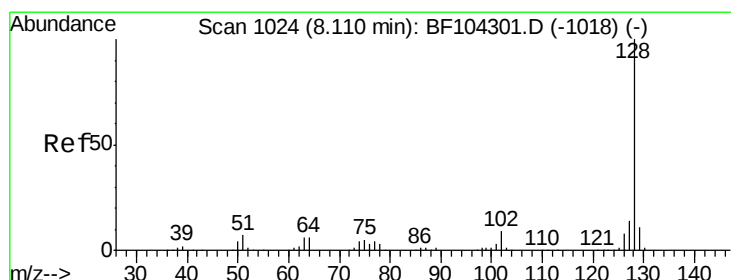
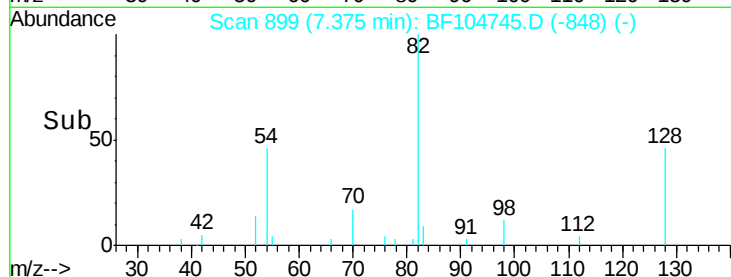
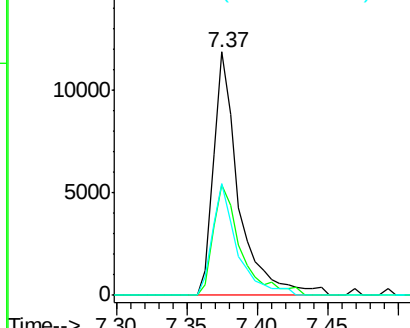
#23
 Nitrobenzene-d5
 Concen: 2.528 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 14762
 Ion Ratio Lower Upper
 82 100
 128 45.5 36.1 54.1
 54 46.0 41.4 62.2

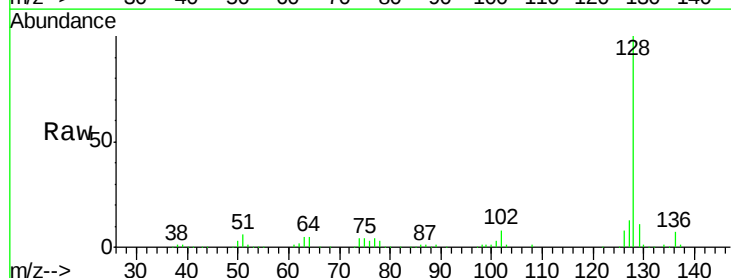


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

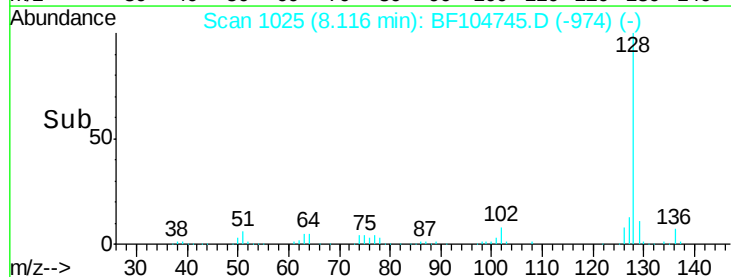
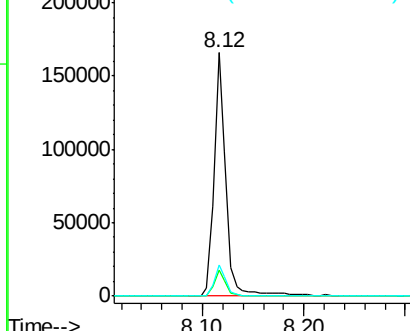


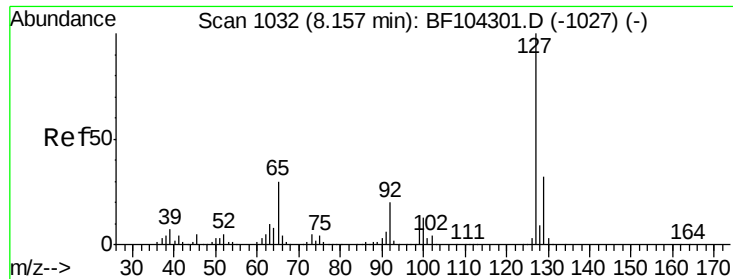
#31
 Naphthalene
 Concen: 7.148 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.00 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion: 128 Resp: 135728
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.8 13.2
 127 12.7 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

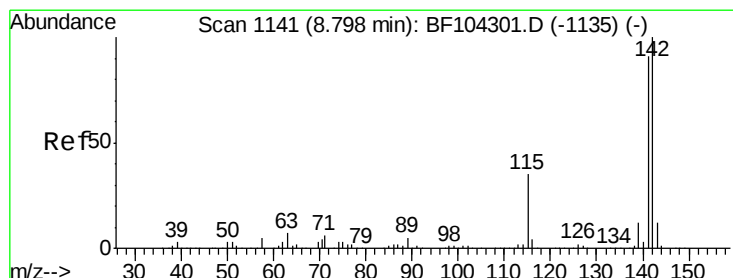
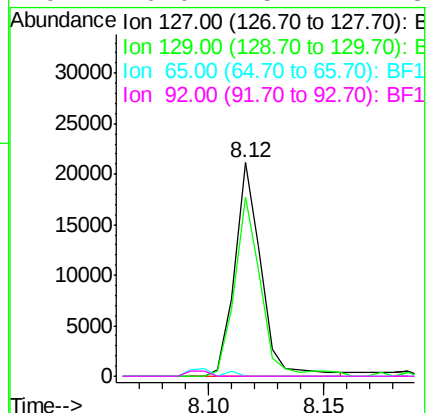
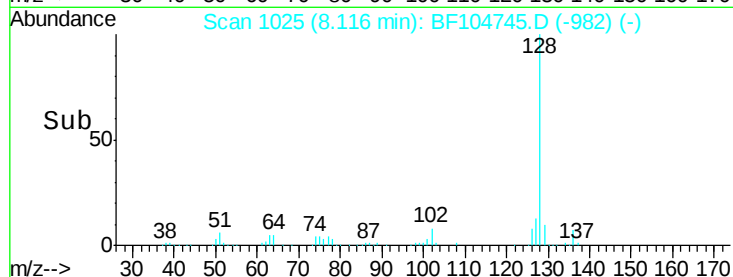
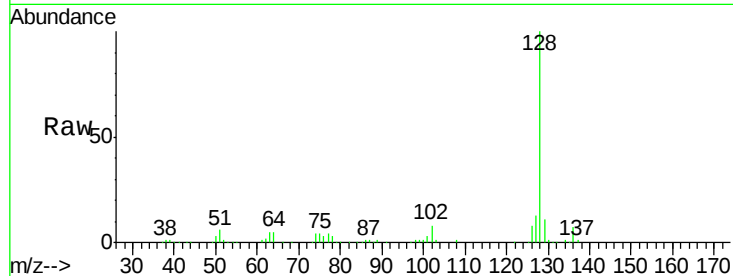




#33
4-Chloroaniline
Concen: 2.076 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.05 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

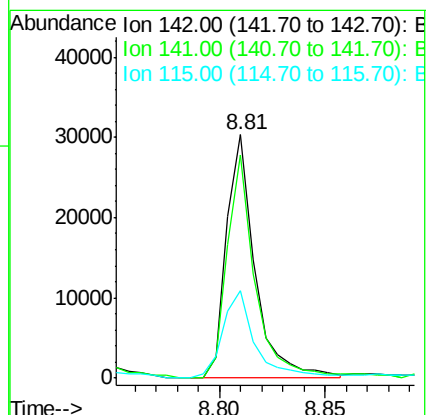
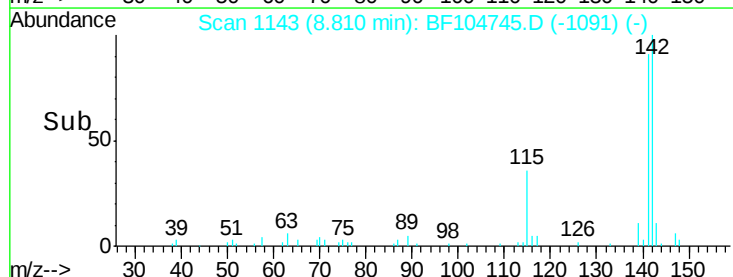
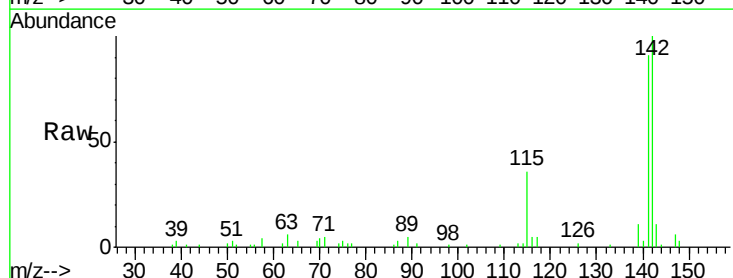
Instrument :
BNA_F
ClientSampleId :

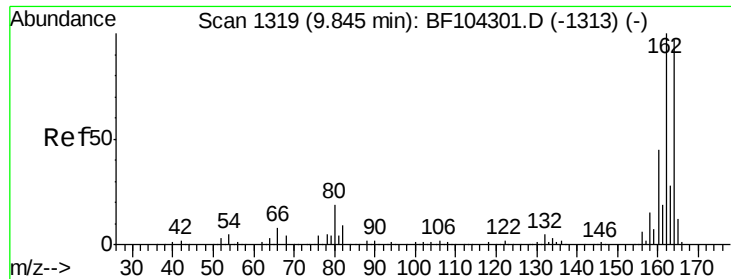
Tot Ion:127 Resp: 16891
Ion Ratio Lower Upper
127 100
129 83.9 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#



#37
2-Methylnaphthalene
Concen: 2.316 ng
RT: 8.81 min Scan# 1143
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:142 Resp: 28441
Ion Ratio Lower Upper
142 100
141 91.5 70.8 106.2
115 35.7 26.1 39.1

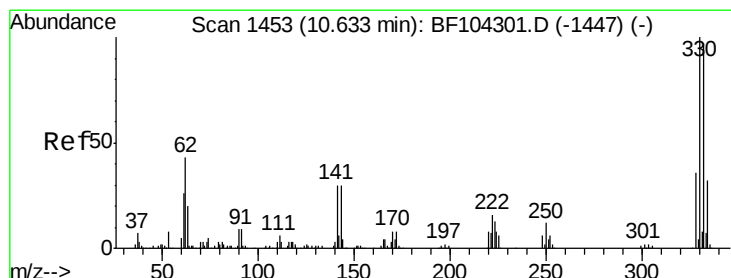
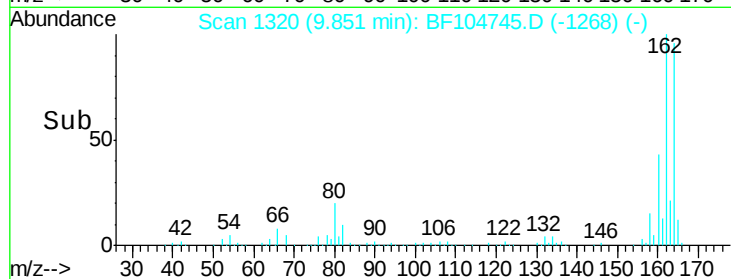
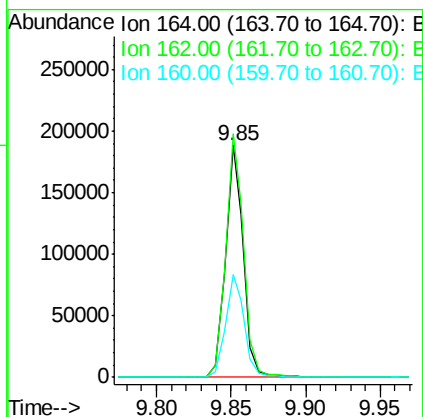
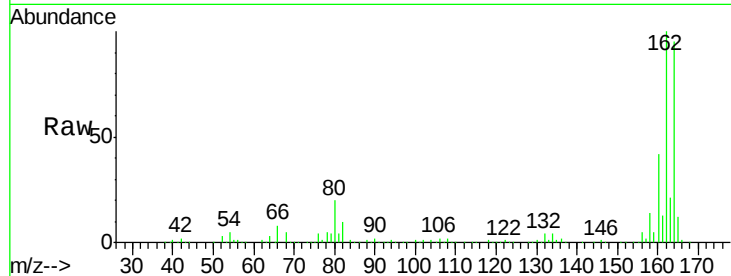




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

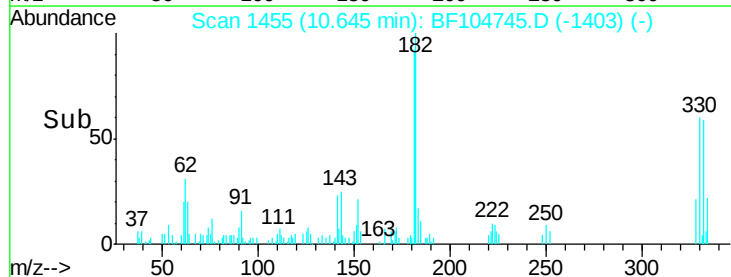
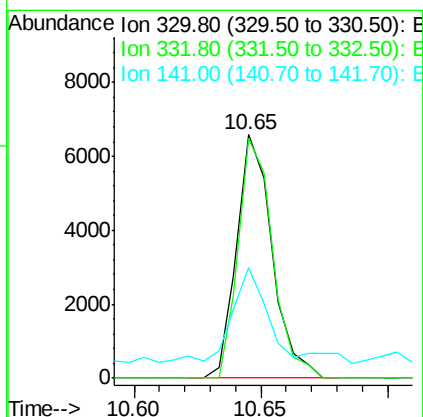
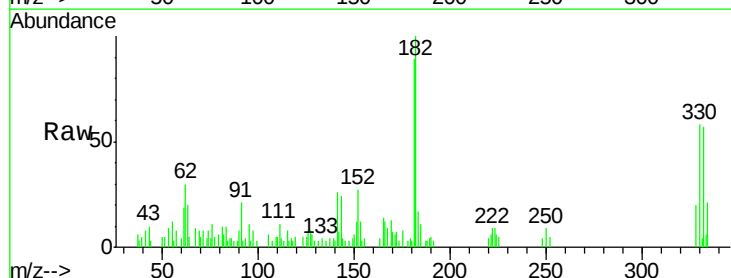
Instrument :
 BNA_F
 ClientSampleId :

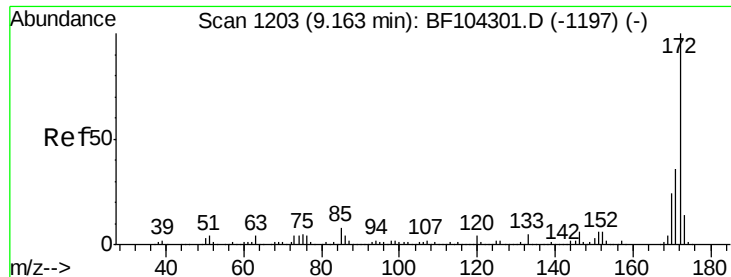
Tot Ion:164 Resp: 159561
 Ion Ratio Lower Upper
 164 100
 162 104.9 86.1 129.1
 160 44.5 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 3.876 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion:330 Resp: 6416
 Ion Ratio Lower Upper
 330 100
 332 95.1 77.0 115.6
 141 55.8 29.9 44.9#

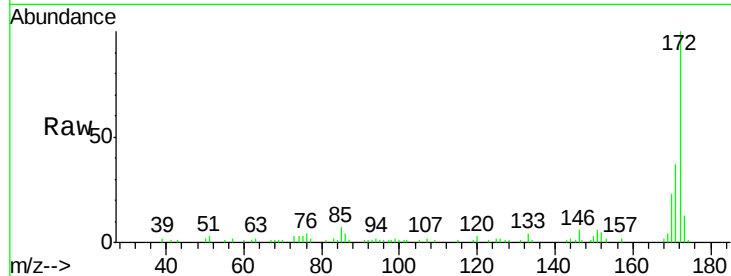




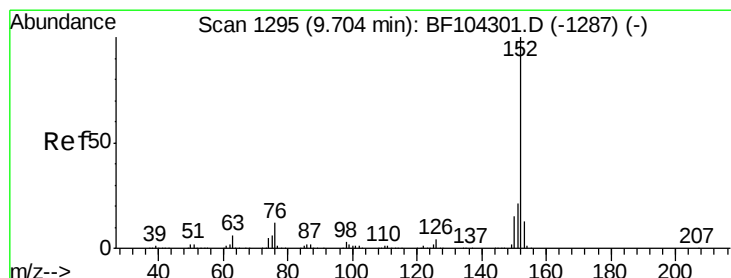
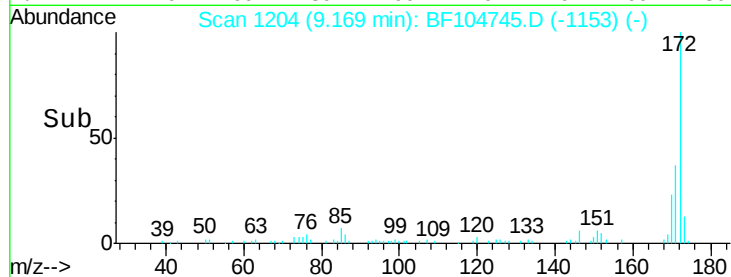
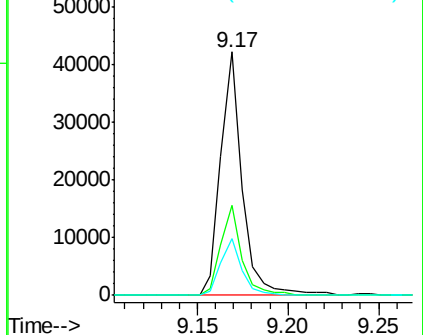
#44
2-Fluorobiphenyl
Concen: 3.468 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.00 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 35026
Ion Ratio Lower Upper
172 100
171 37.0 29.7 44.5
170 23.3 19.6 29.4

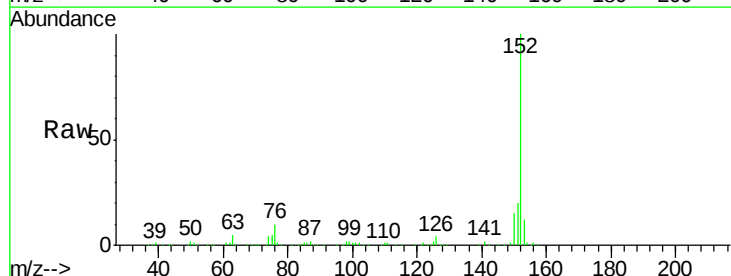


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

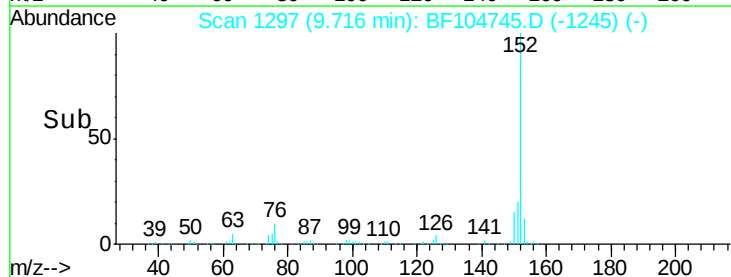
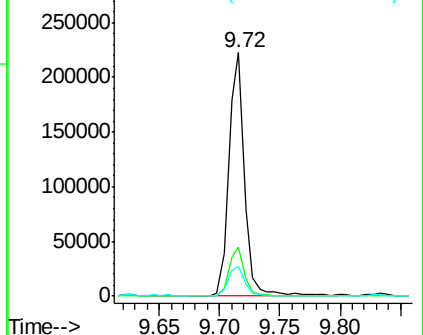


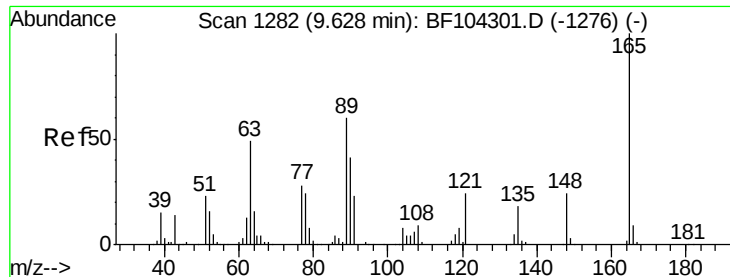
#48
Acenaphthylene
Concen: 11.934 ng
RT: 9.72 min Scan# 1297
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:152 Resp: 198251
Ion Ratio Lower Upper
152 100
151 20.2 16.3 24.5
153 12.5 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

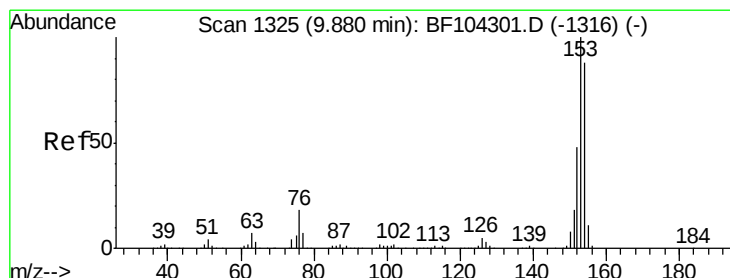
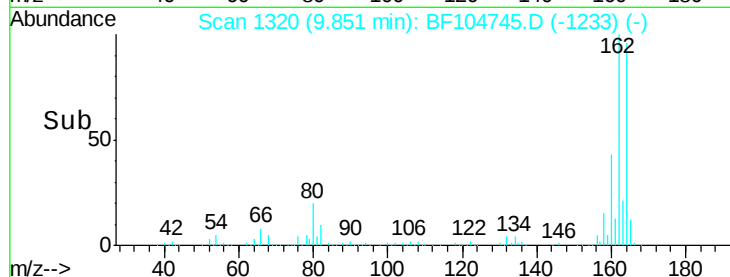
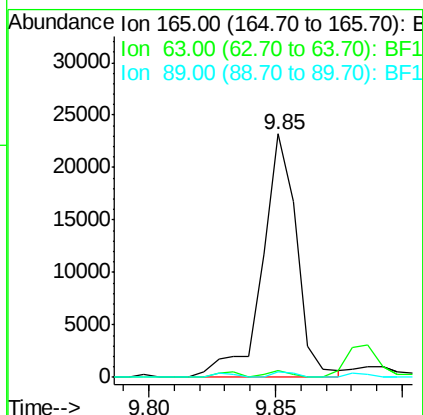
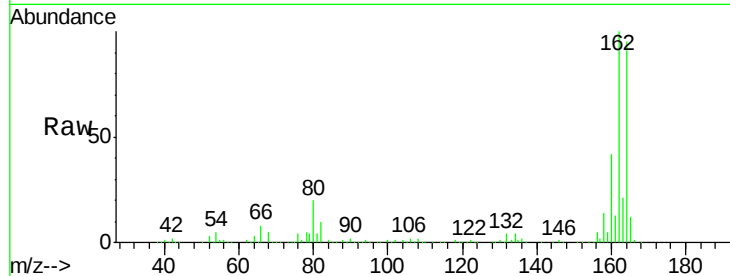




#50
 2,6-Dinitrotoluene
 Concen: 9.449 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.21 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

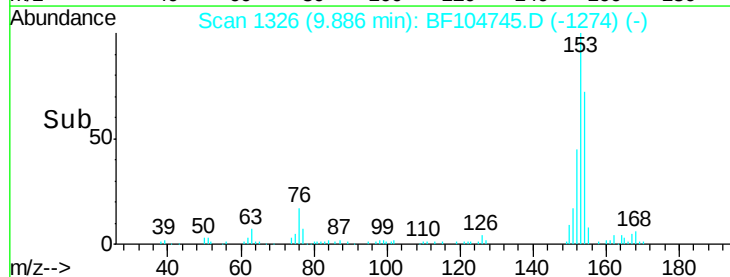
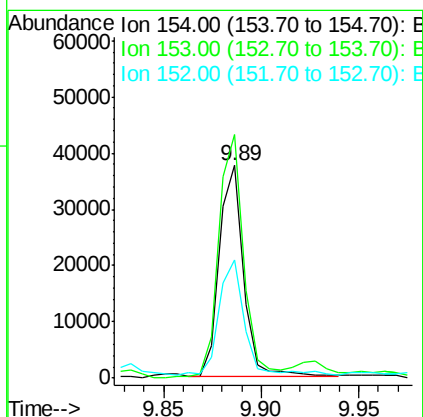
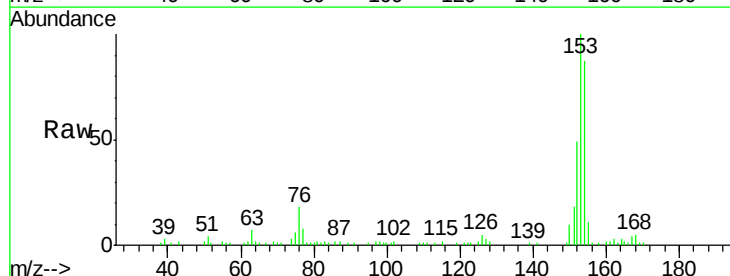
Instrument :
 BNA_F
 ClientSampleId :

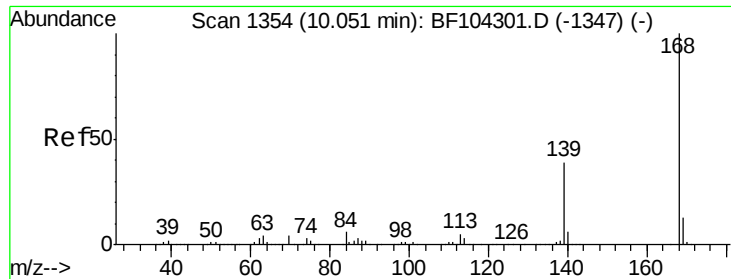
Tot Ion	Ratio	Lower	Upper
165	100		
63	2.6	44.7	67.1#
89	2.0	44.0	66.0#



#51
 Acenaphthene
 Concen: 3.167 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.6	91.2	136.8
152	55.7	43.8	65.8

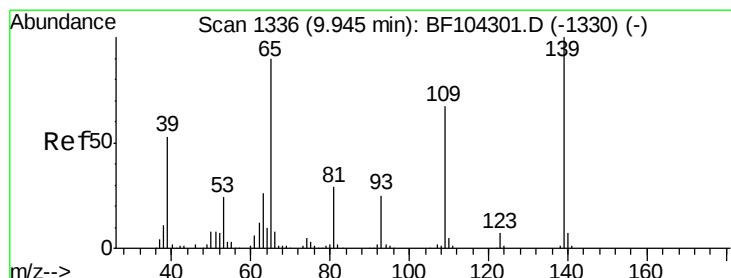
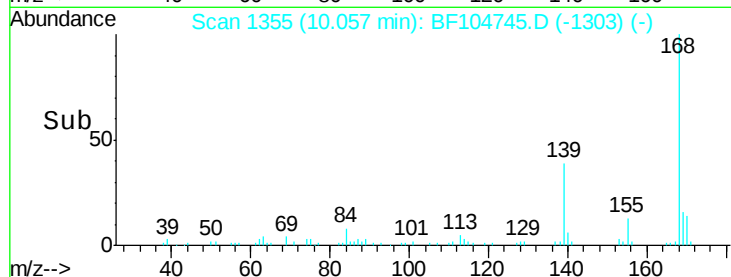
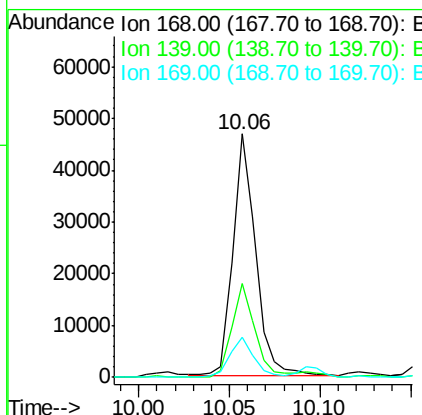
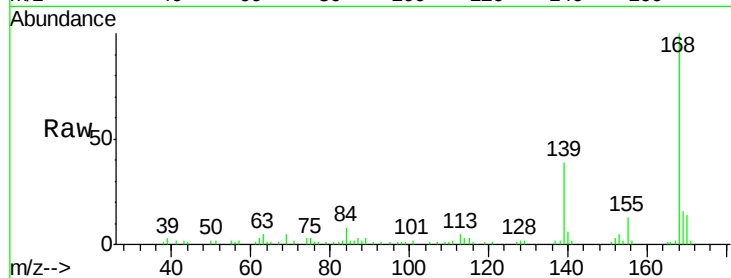




#54
Dibenzenofuran
Concen: 2.881 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

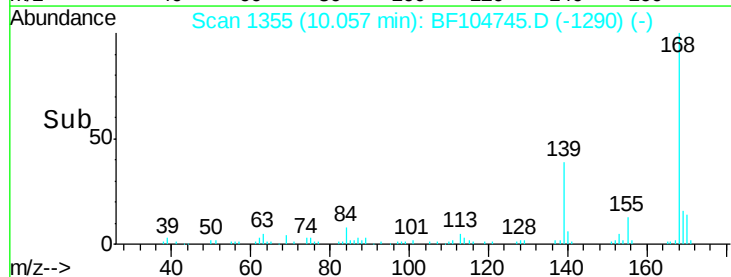
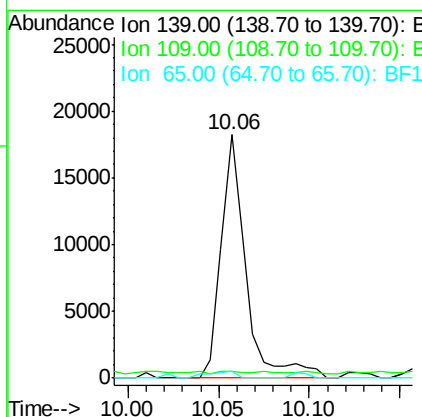
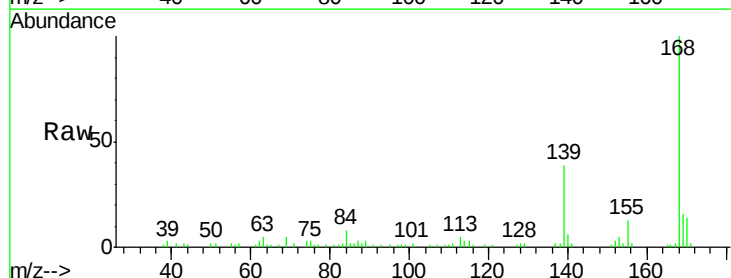
Instrument :
BNA_F
ClientSampleId :

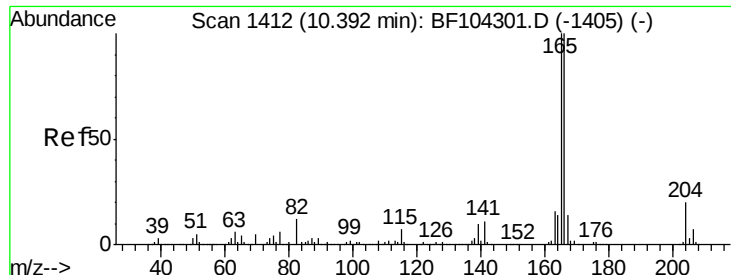
Tot Ion:168 Resp: 40700
Ion Ratio Lower Upper
168 100
139 38.8 30.1 45.1
169 16.3 10.9 16.3#



#55
4-Nitrophenol
Concen: 8.078 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.08 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:139 Resp: 17296
Ion Ratio Lower Upper
139 100
109 3.0 48.4 88.4#
65 3.0 72.6 112.6#

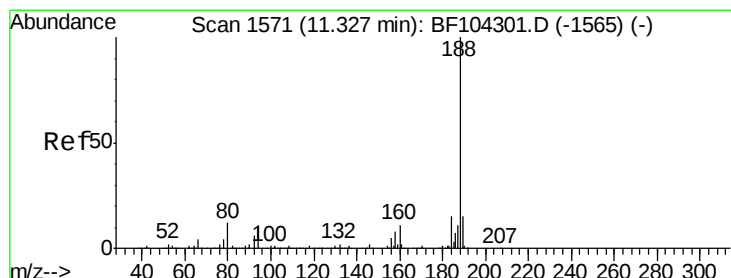
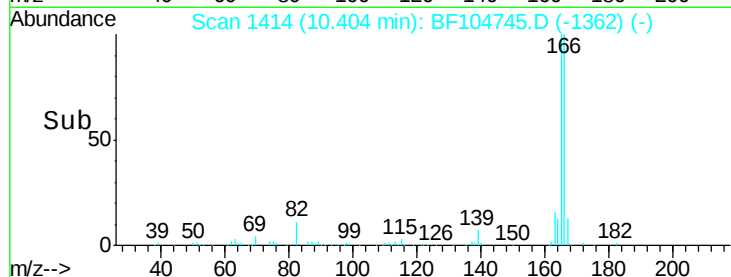
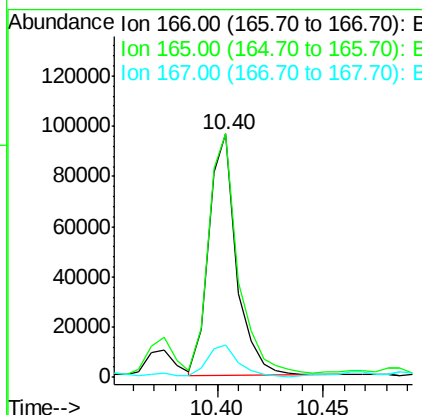
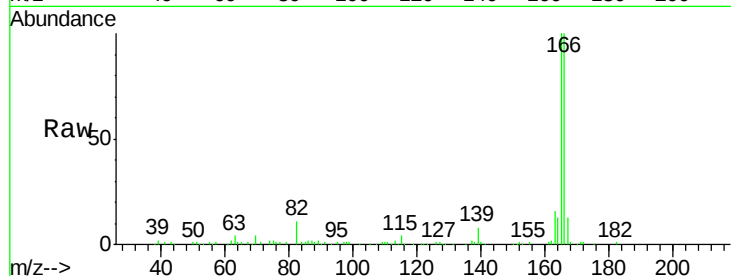




#57
 Fluorene
 Concen: 8.561 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

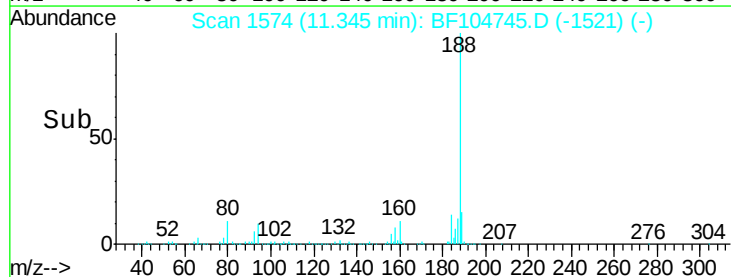
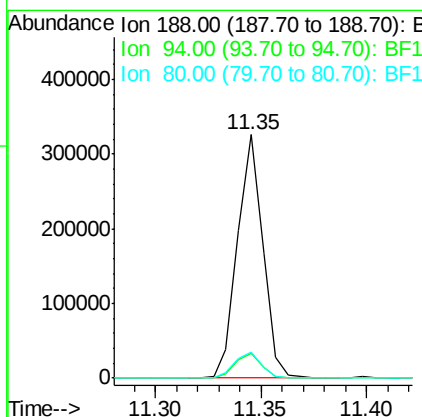
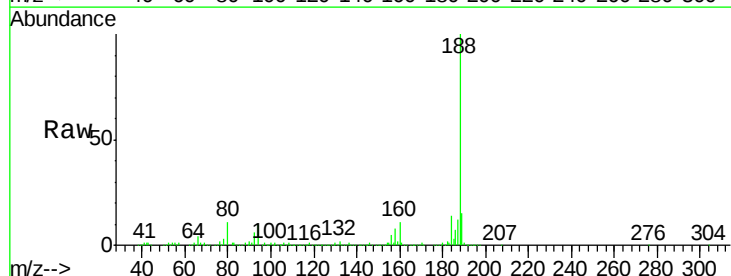
Instrument :
 BNA_F
 ClientSampleId :

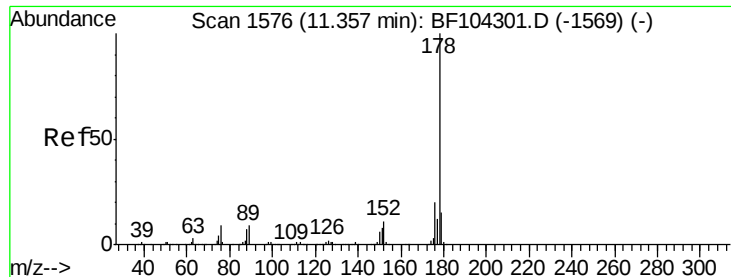
Tot Ion:166 Resp: 88014
 Ion Ratio Lower Upper
 166 100
 165 100.1 79.8 119.8
 167 13.4 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion:188 Resp: 270764
 Ion Ratio Lower Upper
 188 100
 94 10.0 8.5 12.7
 80 10.7 9.2 13.8

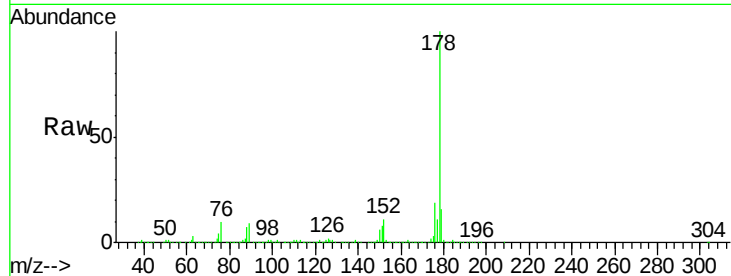




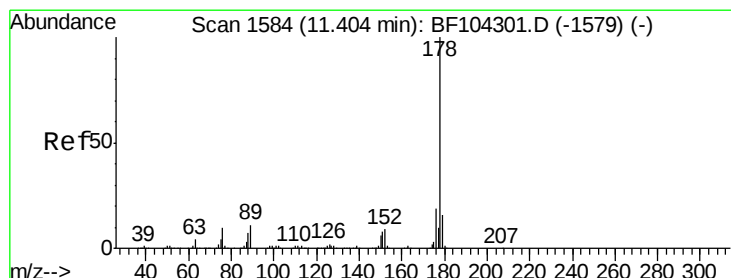
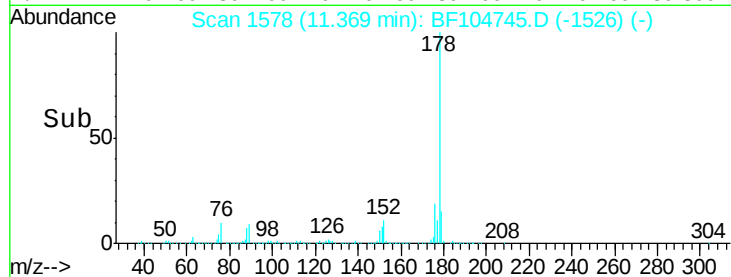
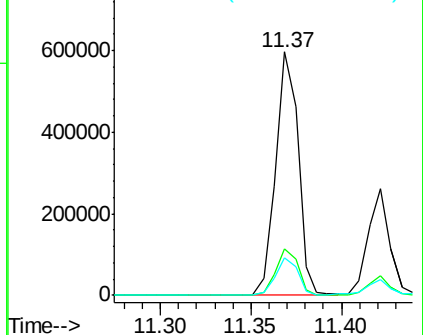
#70
Phenanthrene
Concen: 34.042 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 513313
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.7 13.0 19.6

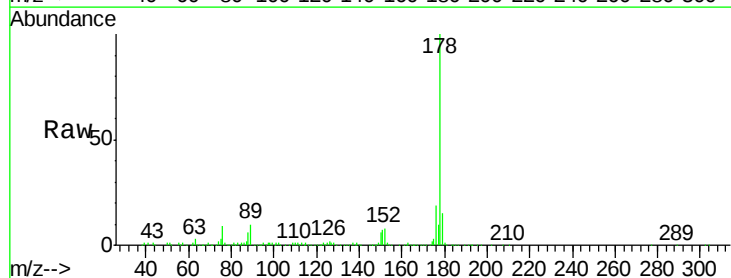


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

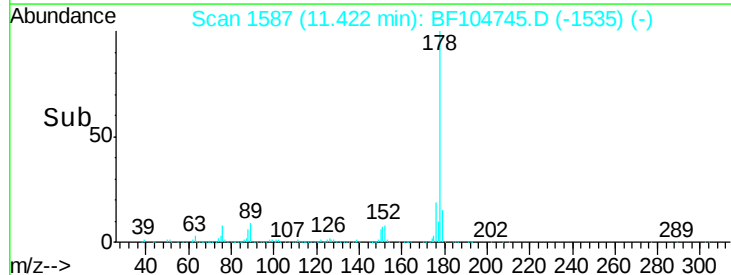
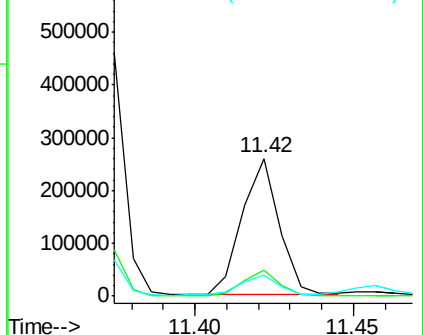


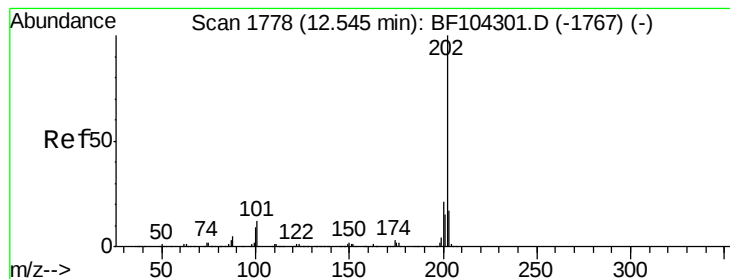
#71
Anthracene
Concen: 13.713 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:178 Resp: 210183
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 15.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 44.717 ng

RT: 12.57 min Scan# 1782

Delta R.T. 0.02 min

Lab File: BF104745.D

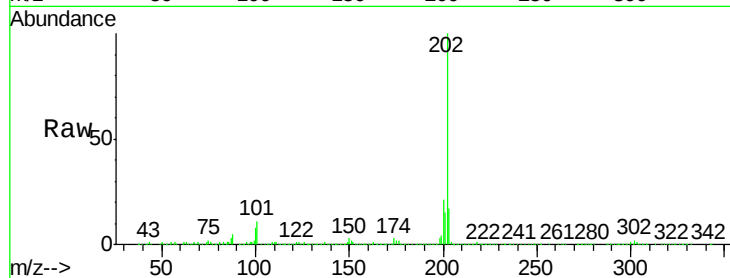
Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

ClientSampled :

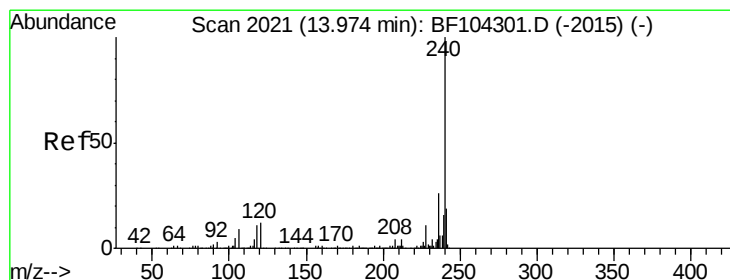
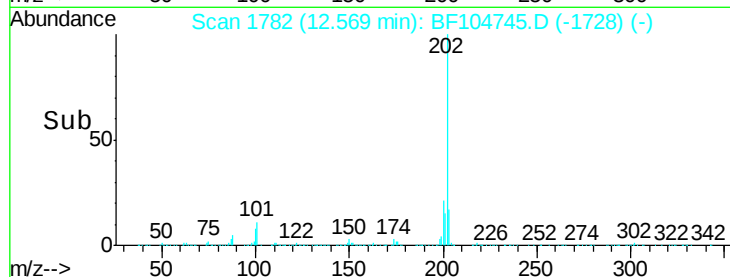
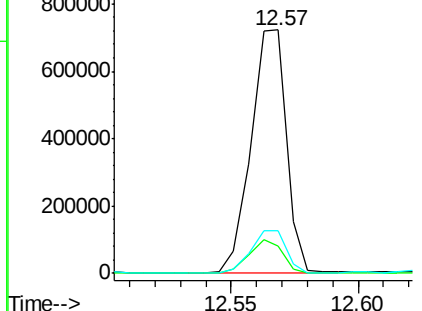
Tot Ion:	202	Resp:	704481
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	34.1
203	17.5	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

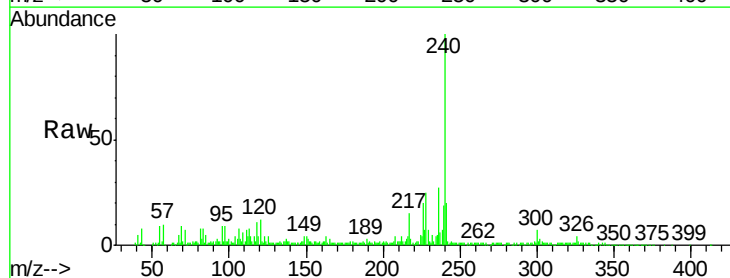
RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

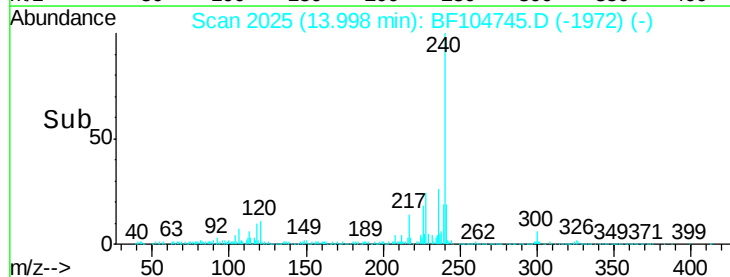
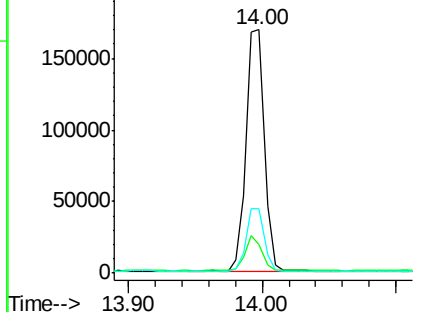
Tgt Ion:	240	Resp:	160922
Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.5	14.3
236	26.5	20.7	31.1

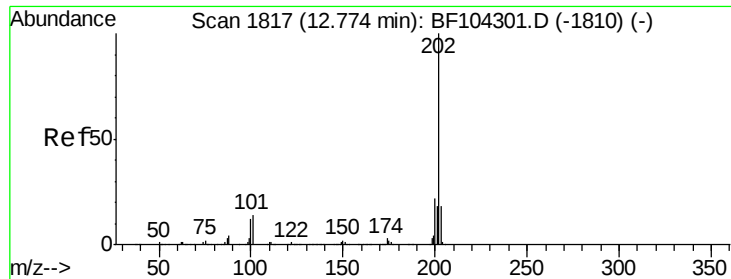


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

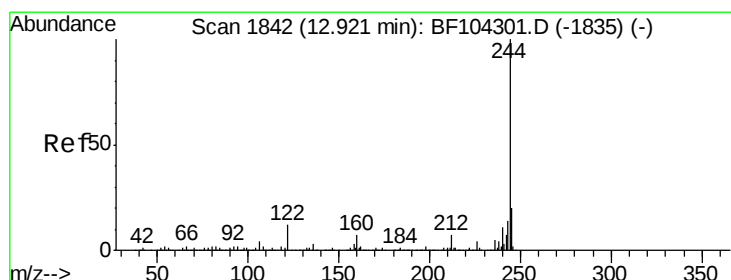
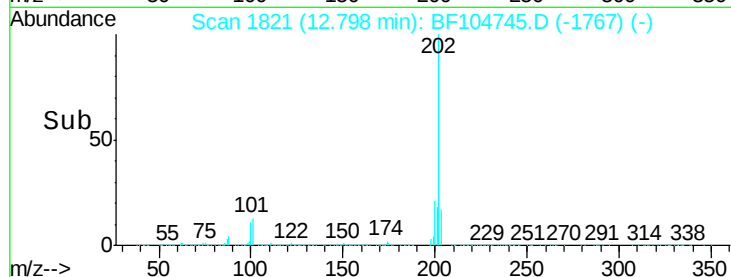
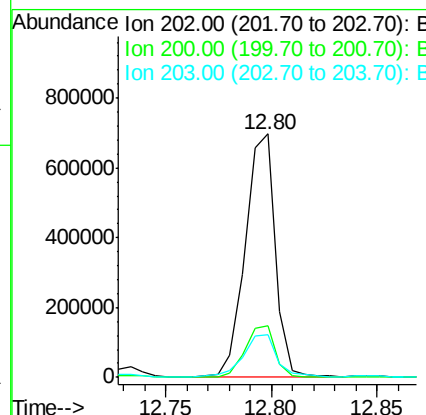
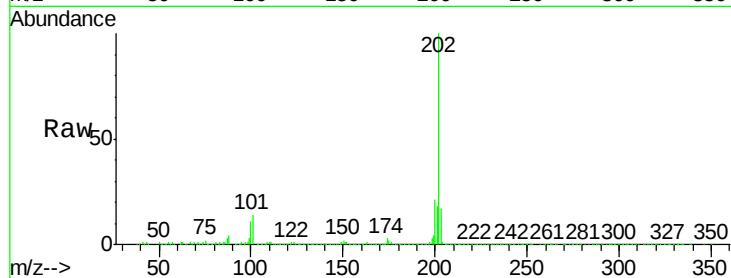




#77
Pvrene
Concen: 57.047 ng
RT: 12.80 min Scan# 1821
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

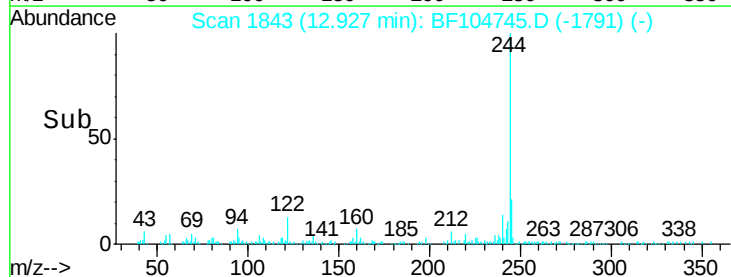
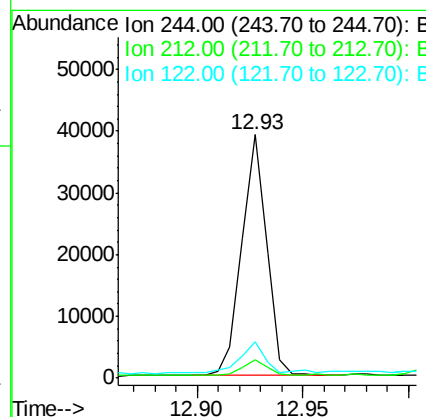
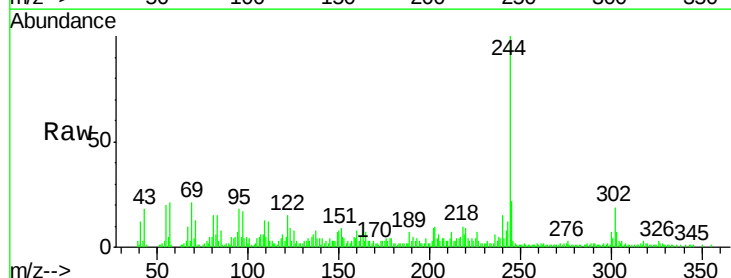
Instrument :
BNA_F
ClientSampleId :

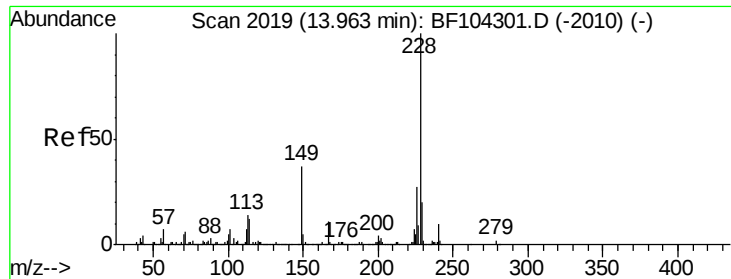
Tot Ion:202 Resp: 680467
Ion Ratio Lower Upper
202 100
200 21.4 17.4 26.2
203 17.3 14.3 21.5



#78
Terphenyl-d14
Concen: 4.497 ng
RT: 12.93 min Scan# 1843
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:244 Resp: 31745
Ion Ratio Lower Upper
244 100
212 7.5 5.4 8.0
122 14.9 11.0 16.4

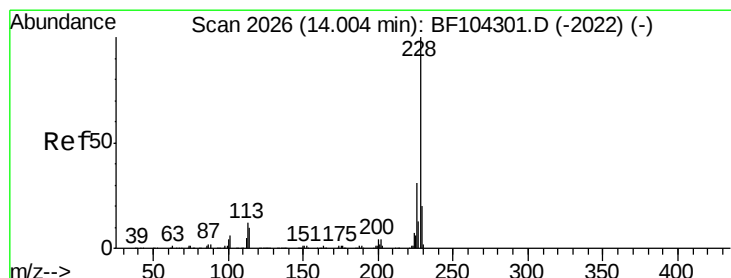
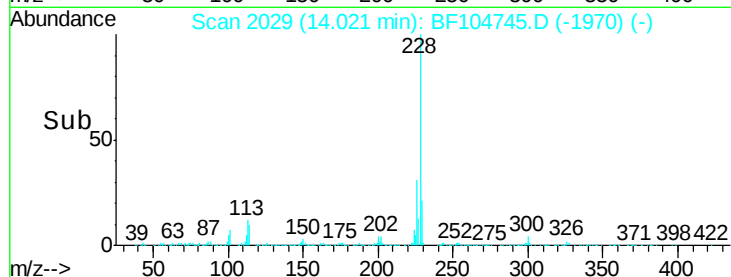
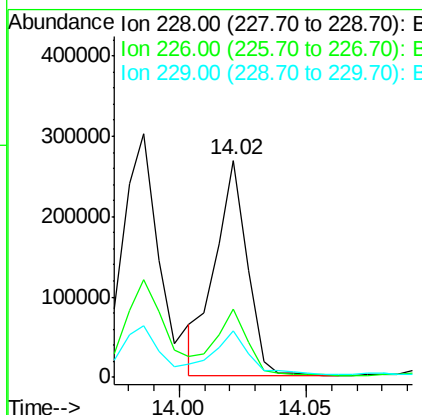
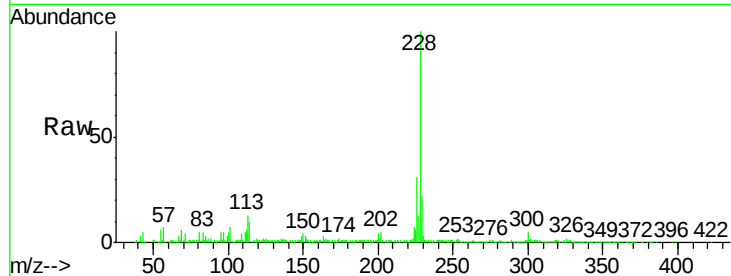




#80
Benzo(a)anthracene
Concen: 24.458 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.05 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

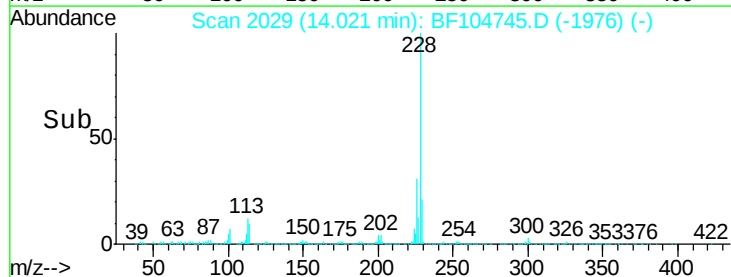
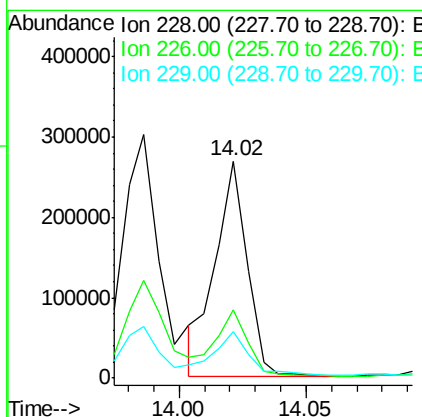
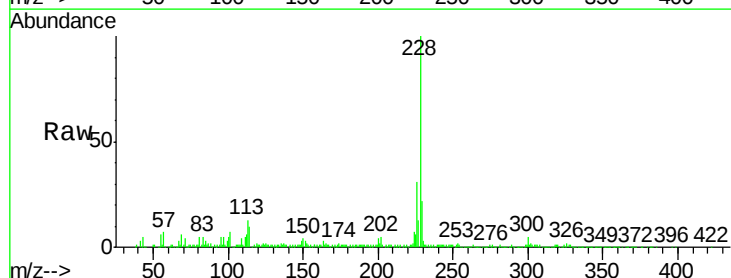
Instrument :
BNA_F
ClientSampleId :

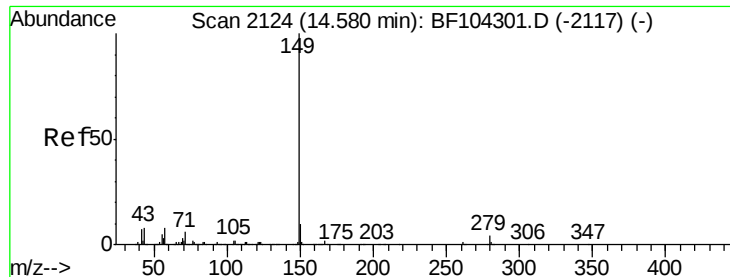
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.6	33.8
229	21.6	15.8	23.6



#82
Chrysene
Concen: 23.811 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	21.6	16.2	24.4





#84

Di-n-octyl phthalate

Concen: 10.062 ng

RT: 14.77 min Scan# 2156

Delta R.T. 0.19 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

ClientSampleId :

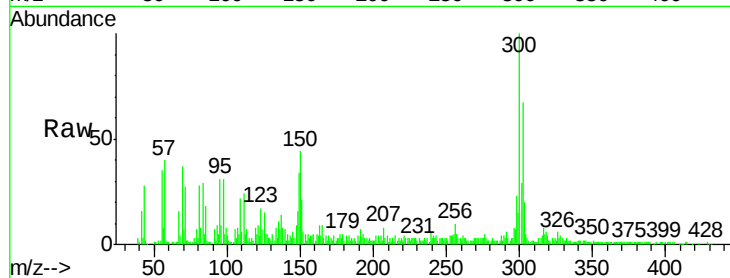
Tot Ion:149 Resp: 121527

Ion Ratio Lower Upper

149 100

167 0.3 1.2 1.8#

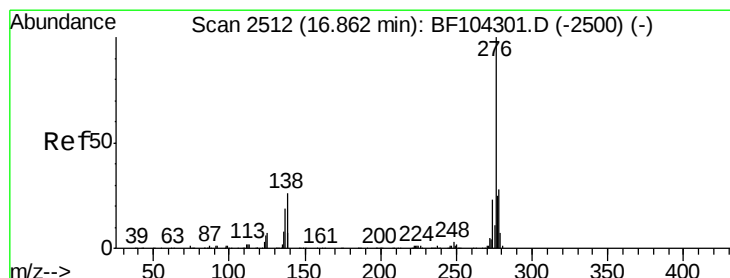
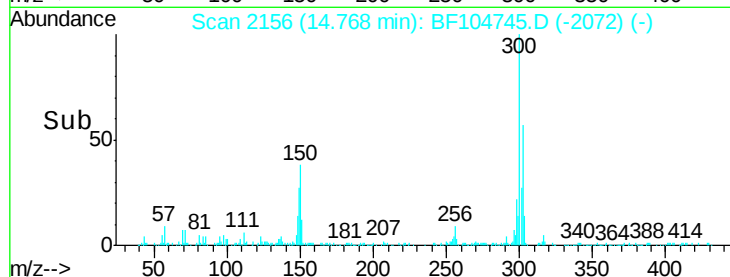
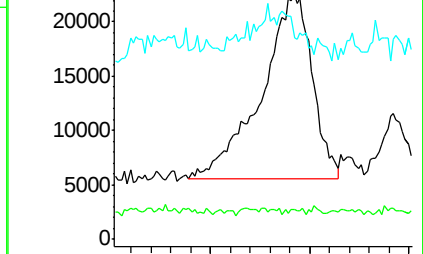
43 0.0 8.4 12.6#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.633 ng

RT: 16.78 min Scan# 2498

Delta R.T. -0.13 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

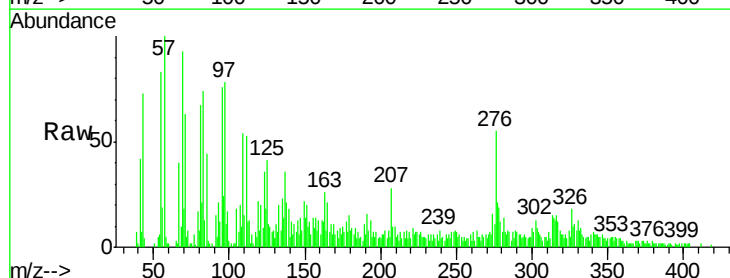
Tgt Ion:276 Resp: 22086

Ion Ratio Lower Upper

276 100

138 35.0 25.0 37.6

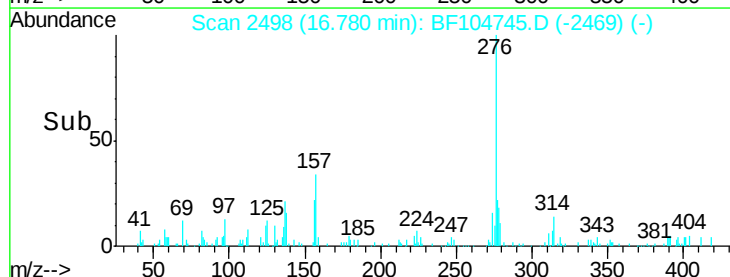
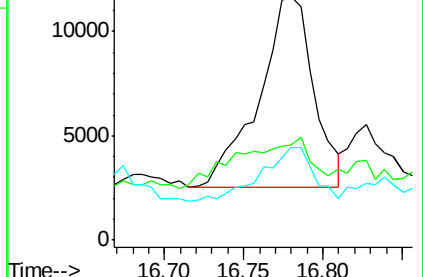
277 27.6 20.1 30.1

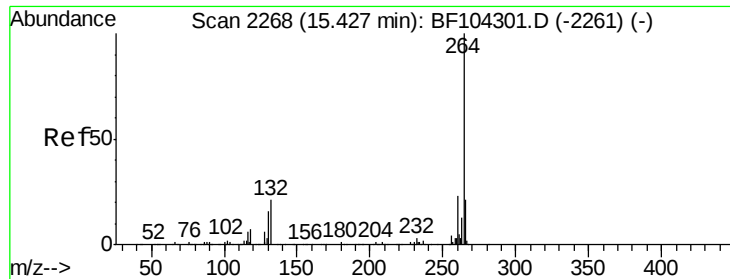


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

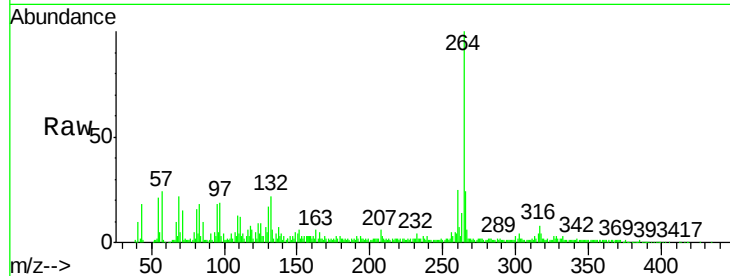




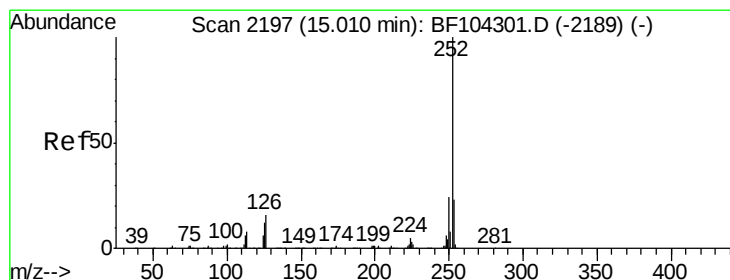
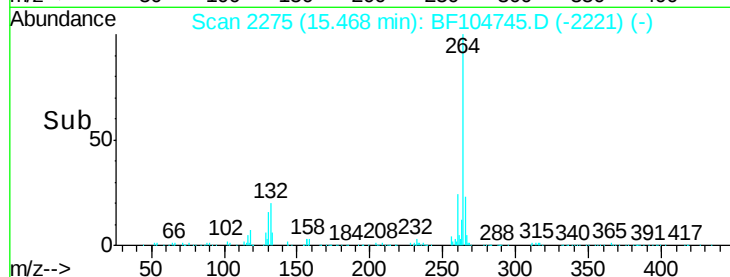
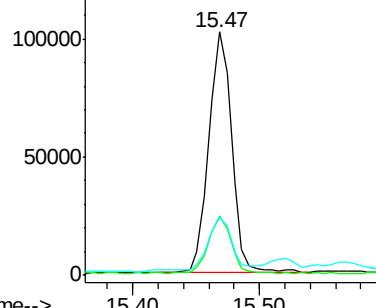
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	24.1	17.5	26.3

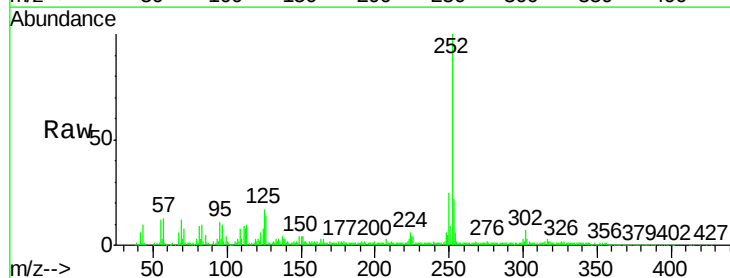


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

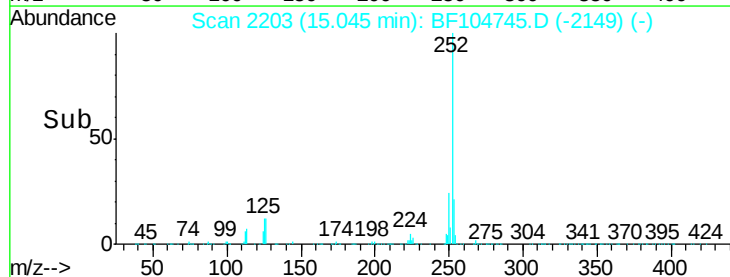
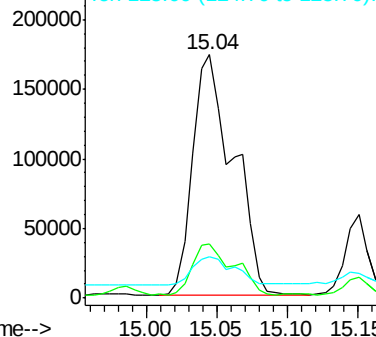


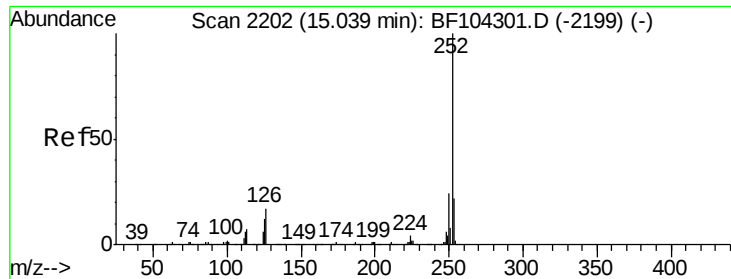
#87
Benzo(b)fluoranthene
Concen: 43.422 ng
RT: 15.04 min Scan# 2203
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	17.2	9.0	13.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

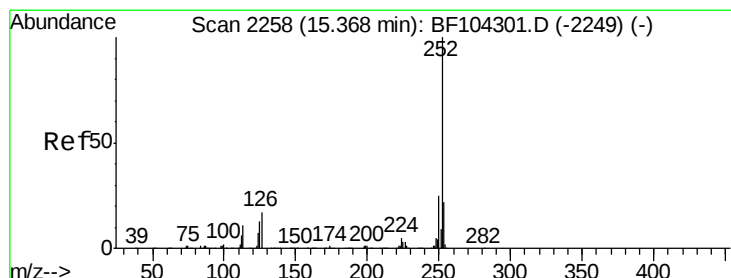
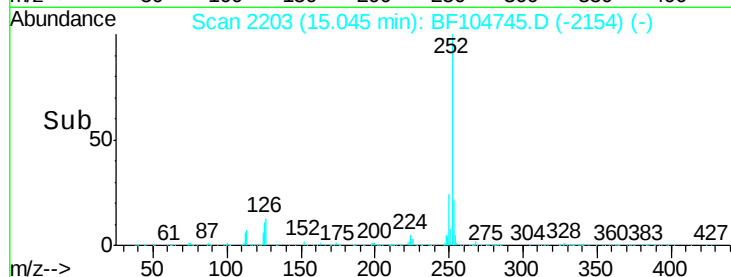
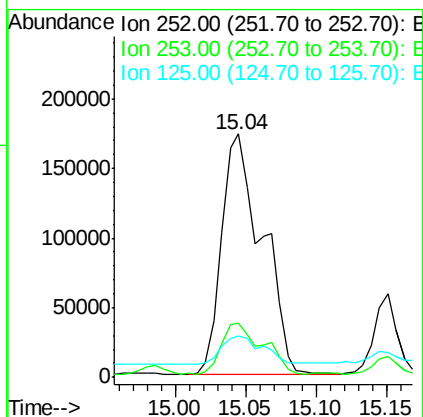
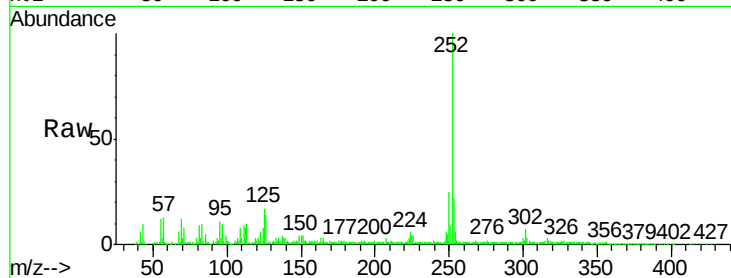




#88
Benzo(k)fluoranthene
Concen: 45.993 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

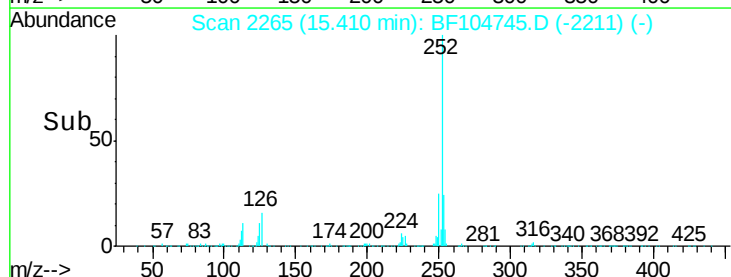
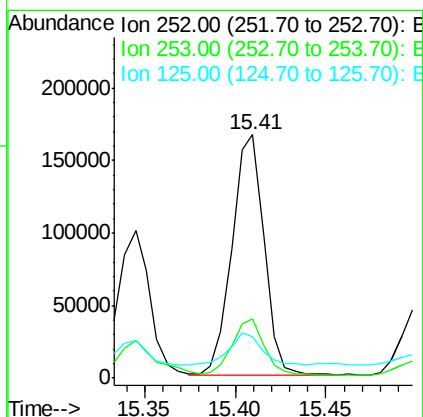
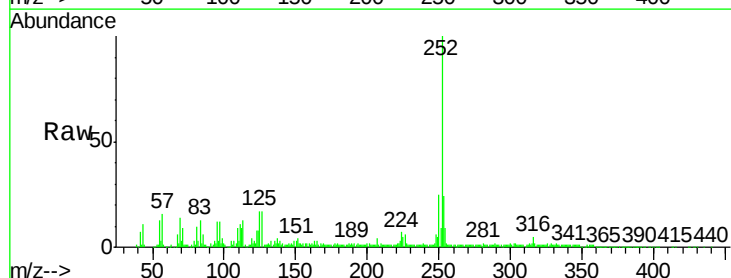
Instrument :
BNA_F
ClientSampleId :

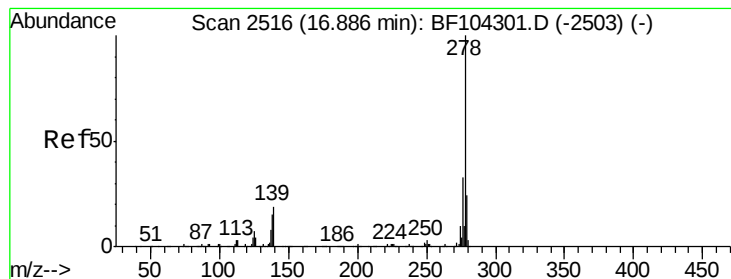
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	17.2	10.2	15.2



#89
Benzo(a)pyrene
Concen: 28.341 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.1	25.7
125	17.2	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.336 ng

RT: 16.94 min Scan# 2526

Delta R.T. 0.02 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

ClientSampleId :

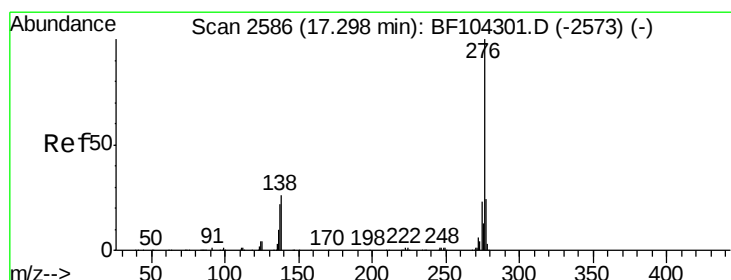
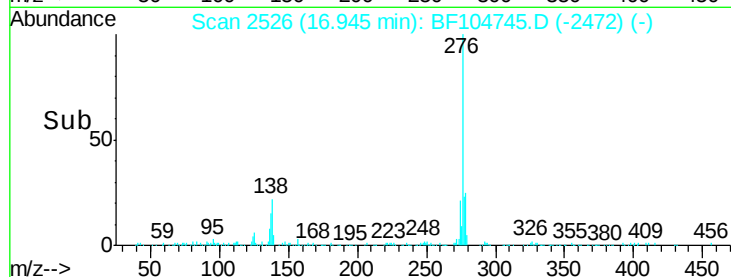
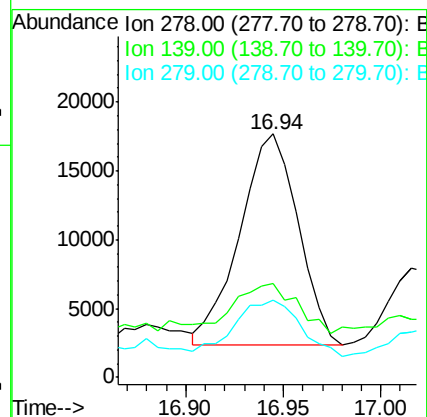
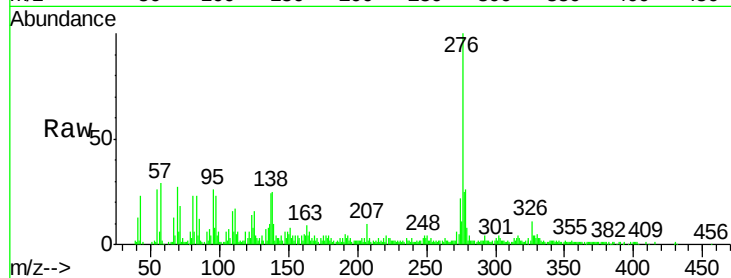
Tot Ion:278 Resp: 31569

Ion Ratio Lower Upper

278 100

139 38.5 15.9 23.9#

279 31.8 19.0 28.4#



#91

Benzo(g,h,i)perylene

Concen: 27.517 ng

RT: 17.39 min Scan# 2602

Delta R.T. 0.04 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Tgt Ion:276 Resp: 157737

Ion Ratio Lower Upper

276 100

277 26.1 17.9 26.9

138 25.3 21.8 32.8

