

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082118\
 Data File : BF108352.D
 Acq On : 21 Aug 2018 22:03
 Operator : JU/SJ
 Sample : J4521-07DL 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 72-11969DL

Quant Time: Aug 21 23:19:51 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 21 15:20:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	187361	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	719037	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	331977	20.00	ng	-0.02
63) Phenanthrene-d10	11.55	188	534706	20.00	ng	-0.01
75) Chrysene-d12	14.20	240	389715	20.00	ng	-0.02
86) Perylene-d12	15.75	264	366109	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	43535	4.21	ng	-0.01
7) Phenol-d6	6.61	99	58807	4.28	ng	-0.02
23) Nitrobenzene-d5	7.56	82	36089	2.80	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	10343	3.12	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	72113	3.49	ng	-0.02
78) Terphenyl-d14	13.12	244	52636	3.43	ng	-0.02

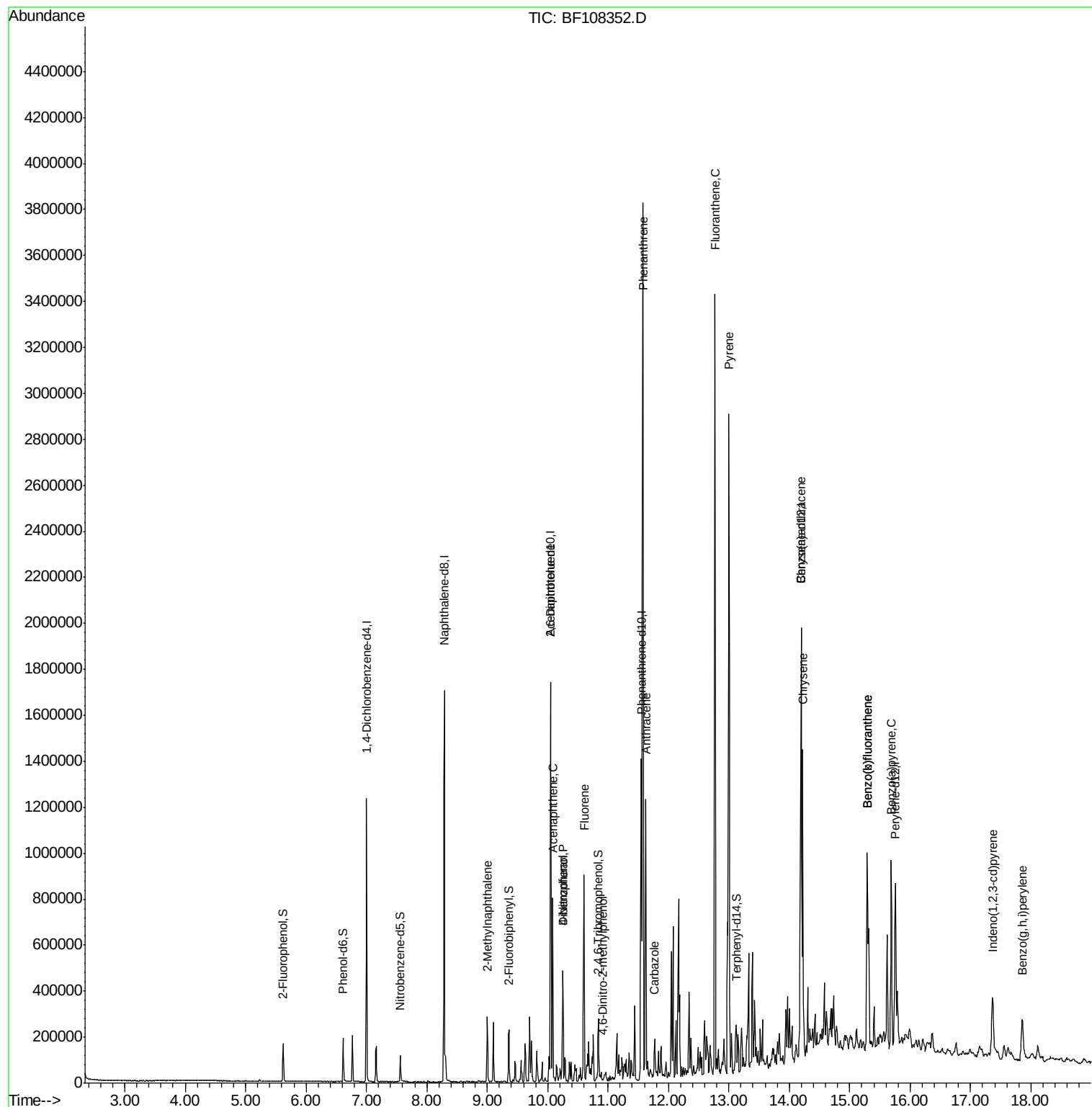
Target Compounds				Qvalue		
37) 2-Methylnaphthalene	9.00	142	70970	3.068	ng	99
50) 2,6-Dinitrotoluene	10.05	165	49466	10.224	ng	# 26
51) Acenaphthene	10.08	154	156009	8.328	ng	99
54) Dibenzofuran	10.25	168	164924	6.077	ng	98
55) 4-Nitrophenol	10.25	139	62792	15.664	ng	# 10
57) Fluorene	10.60	166	245182	11.412	ng	99
64) 4,6-Dinitro-2-methylphenol	10.91	198	114	5.409	ng	# 13
70) Phenanthrene	11.58	178	1560070	61.858	ng	99
71) Anthracene	11.62	178	471491	18.240	ng	99
72) Carbazole	11.77	167	55146	2.401	ng	99
74) Fluoranthene	12.77	202	1391397	50.551	ng	95
77) Pyrene	13.00	202	1196632	48.500	ng	98
80) Benzo(a)anthracene	14.19	228	634141	28.353	ng	98
82) Chrysene	14.22	228	470496	22.946	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	173919	9.789	ng	# 88
87) Benzo(b)fluoranthene	15.29	252	752900	34.416	ng	96
88) Benzo(k)fluoranthene	15.29	252	752900	37.439	ng	# 97
89) Benzo(a)pyrene	15.69	252	405016	20.675	ng	95
91) Benzo(g,h,i)perylene	17.85	276	145797	9.135	ng	# 93

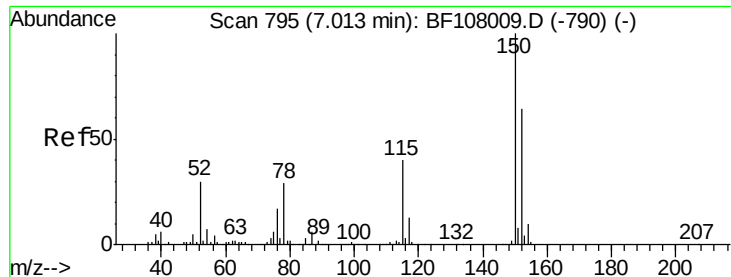
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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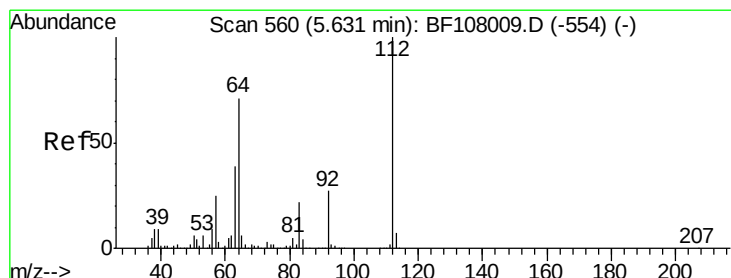
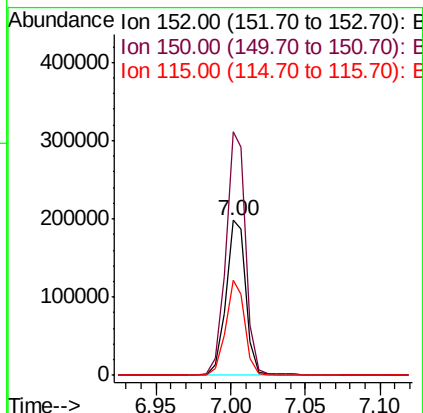
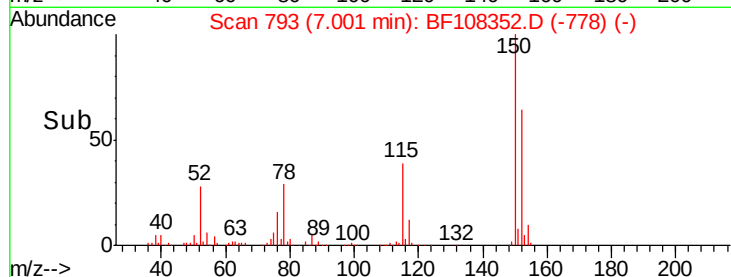
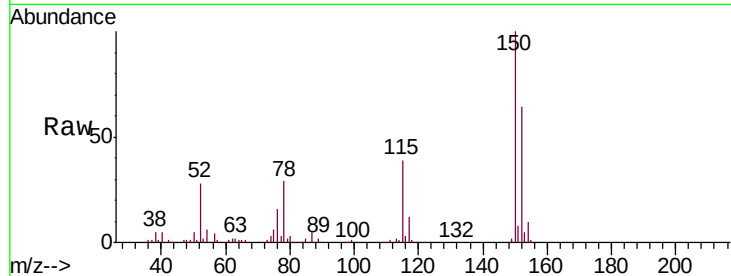


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampleId :
72-11969DL

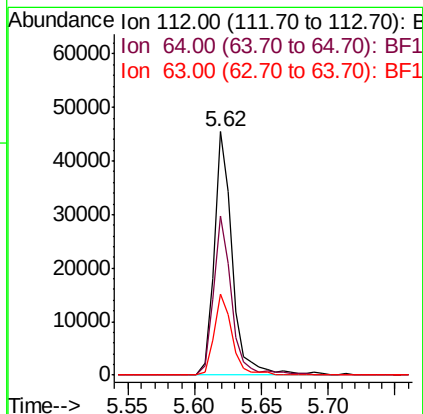
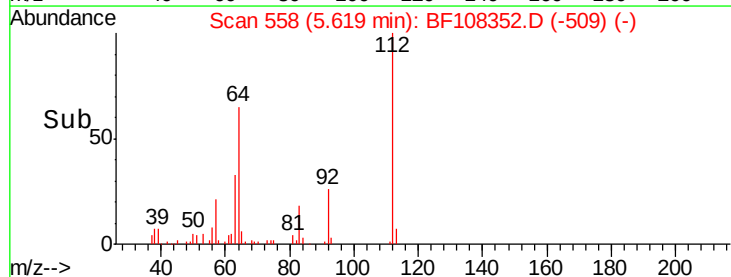
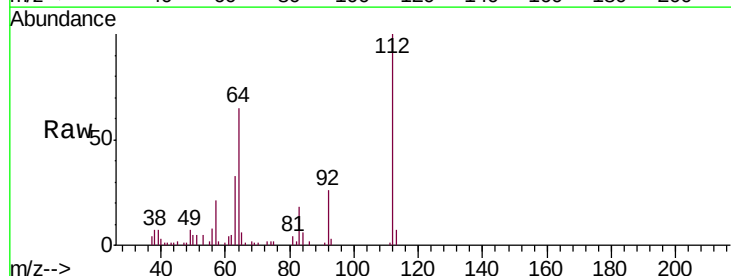
Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	61.9	50.1	75.1

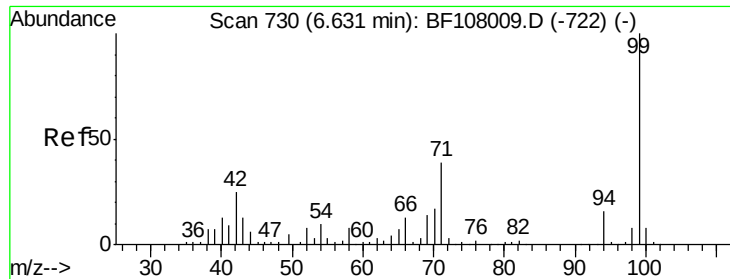


#5

2-Fluorophenol
Concen: 4.207 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	47.9	71.9
63	33.5	23.7	35.5





#7

Phenol-d6

Concen: 4.276 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL

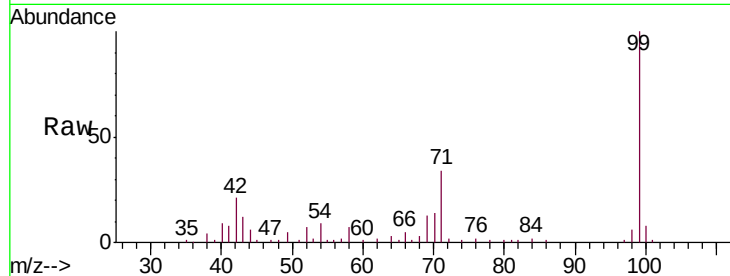
Tgt Ion: 99 Resp: 58807

Ion Ratio Lower Upper

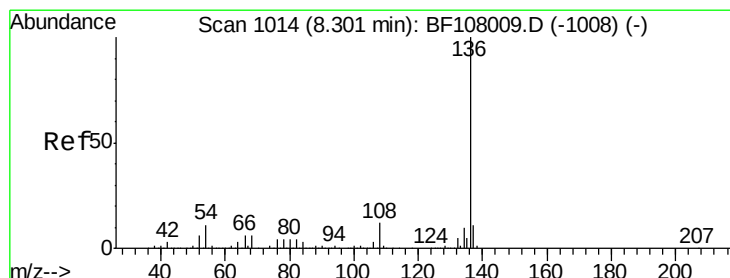
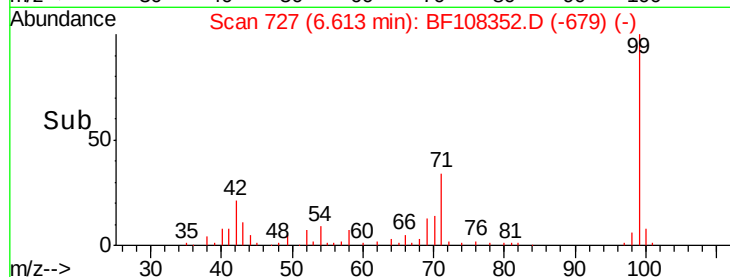
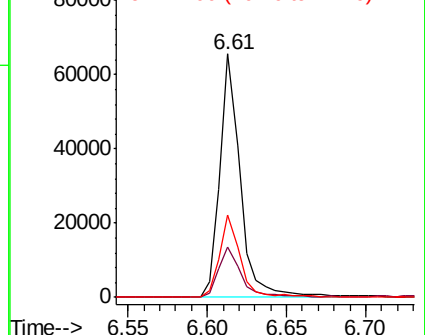
99 100

42 20.9 14.5 21.7

71 33.9 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: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Tgt Ion: 136 Resp: 719037

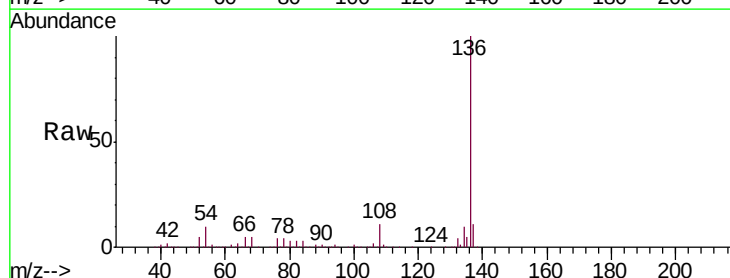
Ion Ratio Lower Upper

136 100

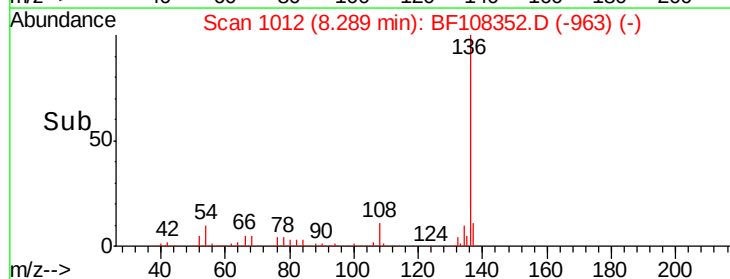
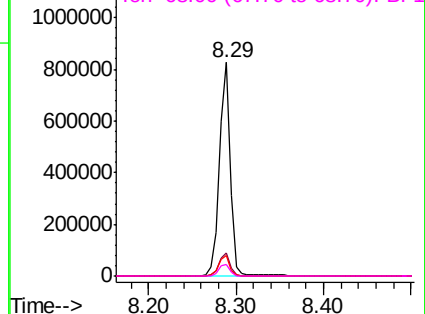
137 10.9 8.9 13.3

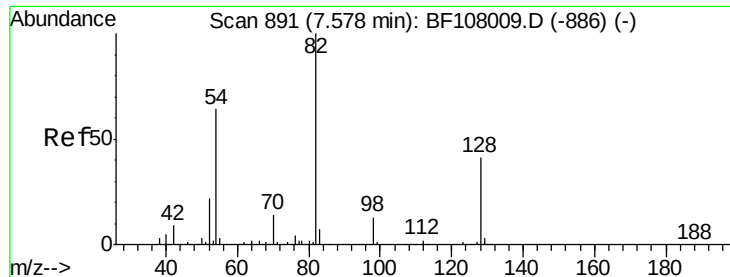
54 9.6 6.6 9.8

68 5.4 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

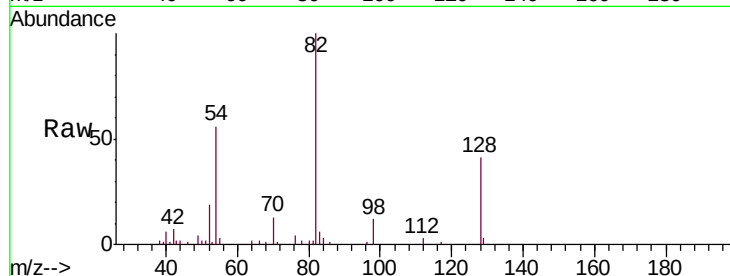




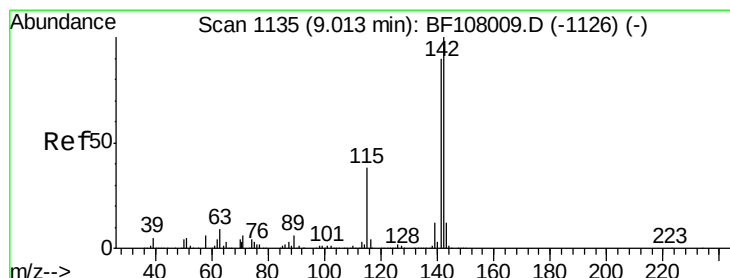
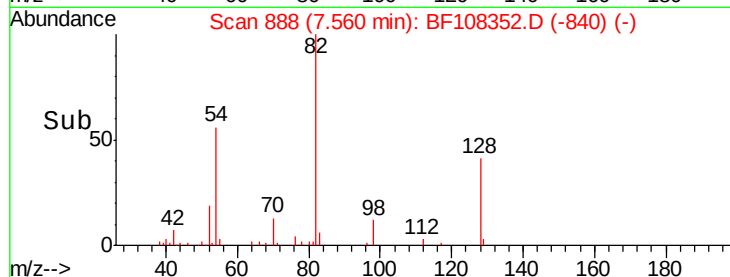
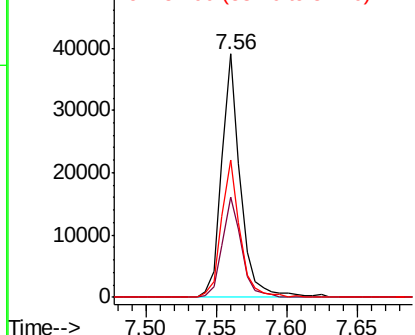
#23
 Nitrobenzene-d5
 Concen: 2.801 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 72-11969DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.1	36.1	54.1
54	56.3	41.4	62.2

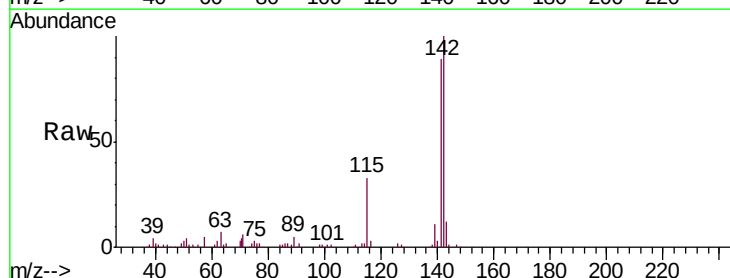


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

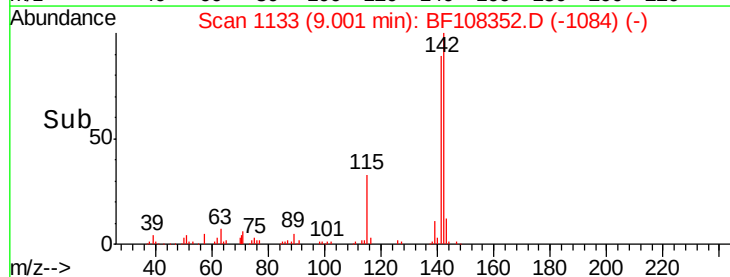
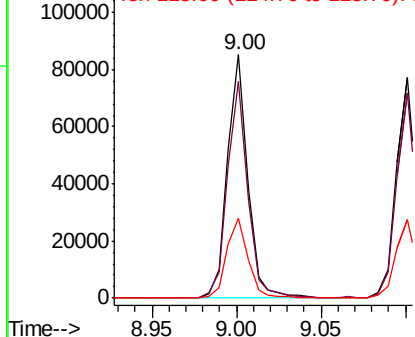


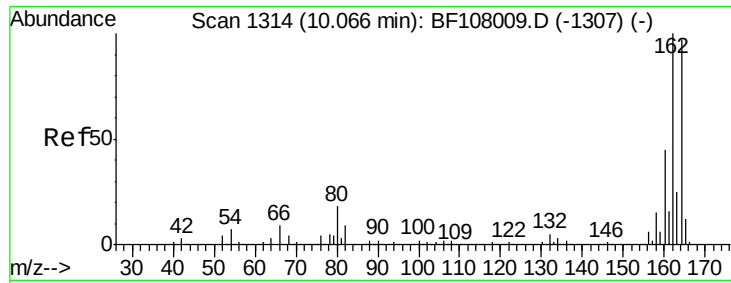
#37
 2-Methylnaphthalene
 Concen: 3.068 ng
 RT: 9.00 min Scan# 1133
 Delta R.T. -0.01 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.8	106.2
115	32.8	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): BF1
 Ion 141.00 (140.70 to 141.70): BF1
 Ion 115.00 (114.70 to 115.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.05 min Scan# 1311

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampled :

72-11969DL

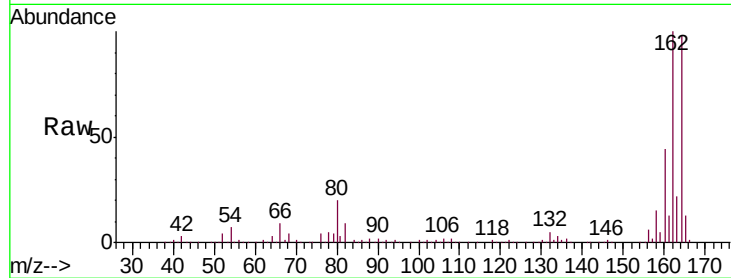
Tgt Ion:164 Resp: 331977

Ion Ratio Lower Upper

164 100

162 102.0 86.1 129.1

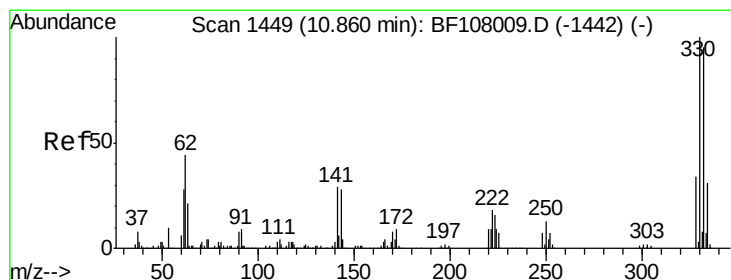
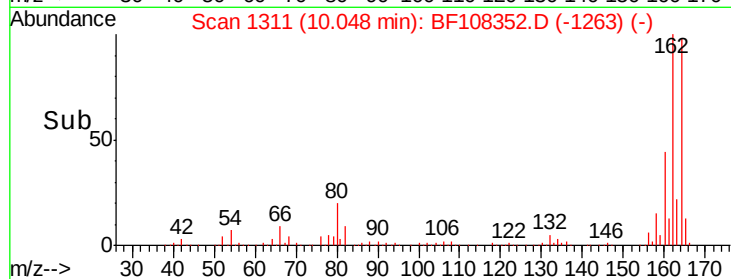
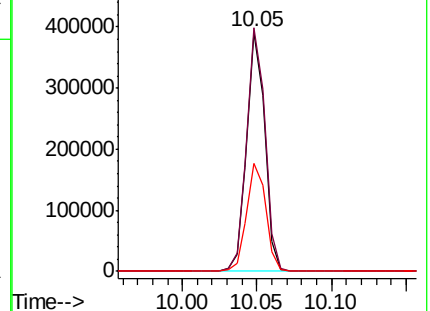
160 45.1 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 3.123 ng

RT: 10.84 min Scan# 1446

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

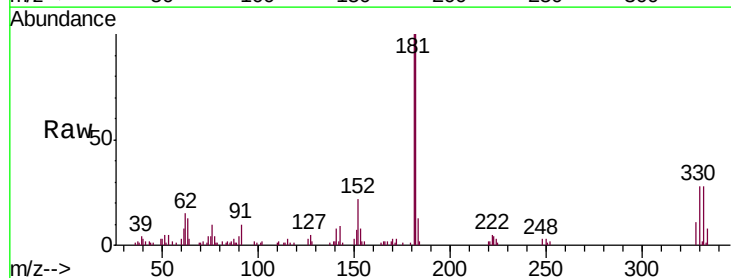
Tgt Ion:330 Resp: 10343

Ion Ratio Lower Upper

330 100

332 97.7 77.0 115.6

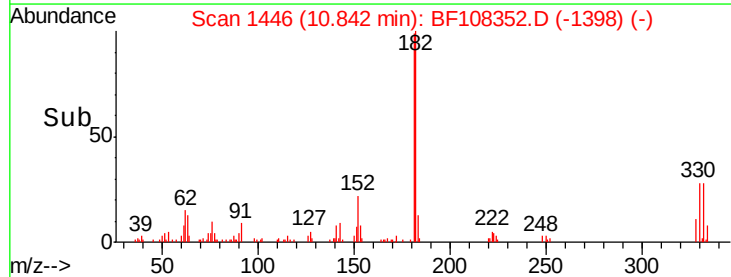
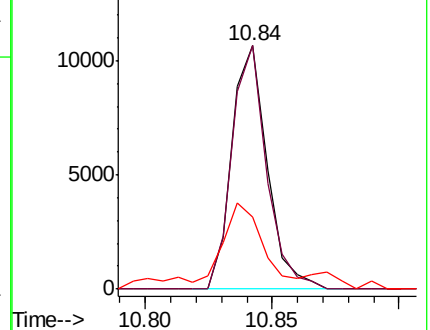
141 47.5 29.9 44.9#

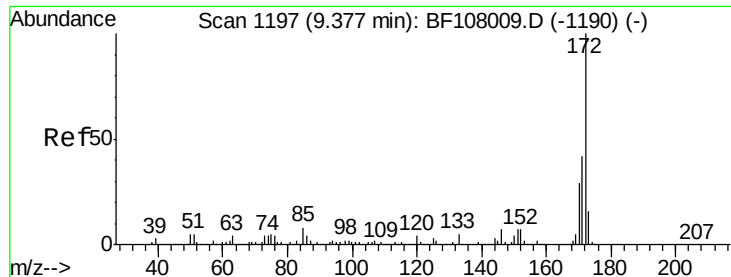


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

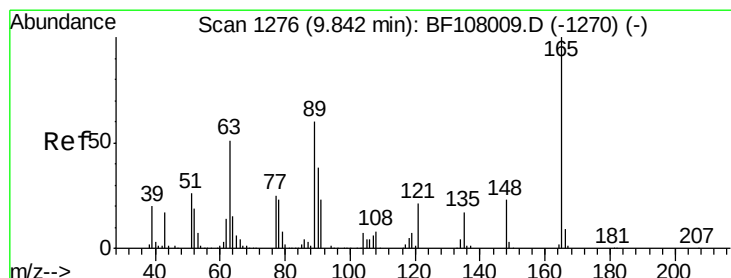
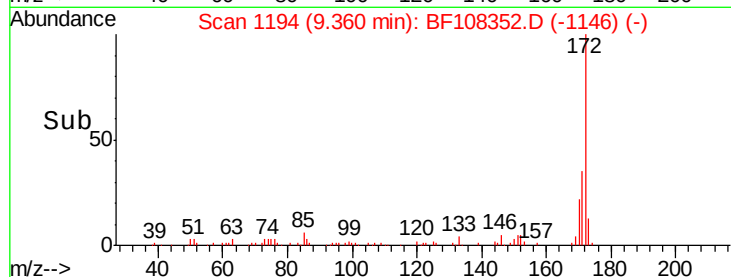
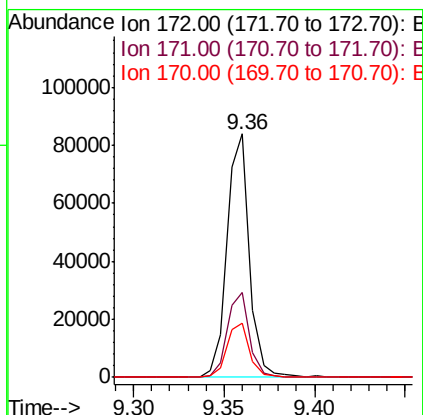
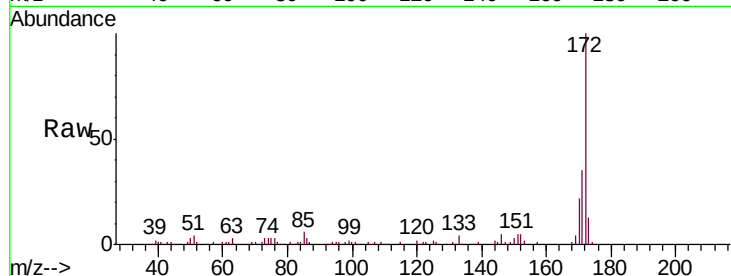




#44
 2-Fluorobiphenyl
 Concen: 3.487 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

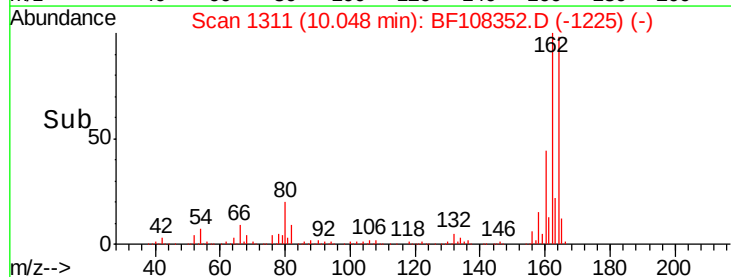
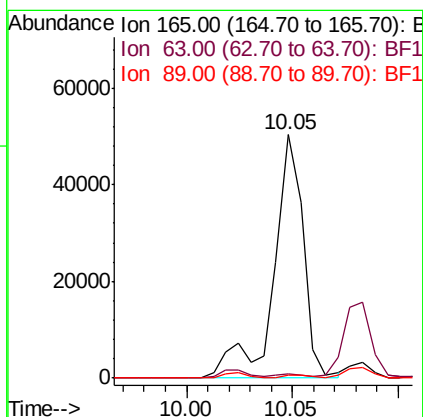
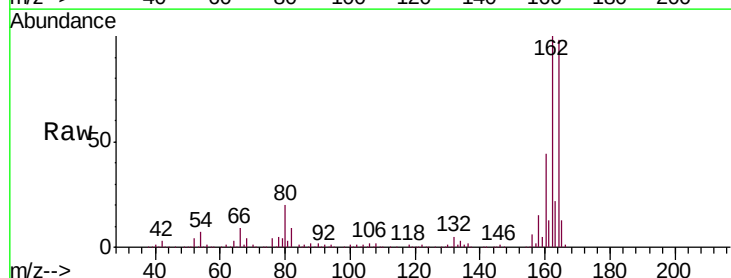
Instrument :
 BNA_F
 ClientSampleID :
 72-11969DL

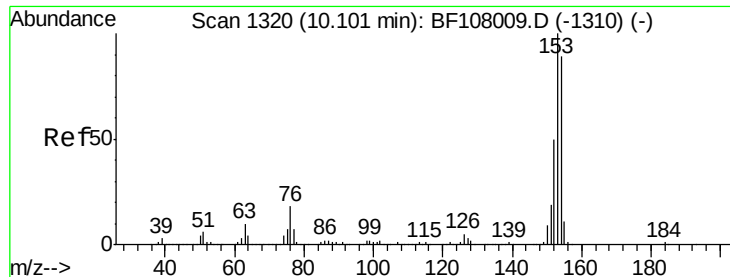
Tgt Ion:172 Resp: 72113
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.7 44.5
 170 22.1 19.6 29.4



#50
 2,6-Dinitrotoluene
 Concen: 10.224 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. 0.21 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion:165 Resp: 49466
 Ion Ratio Lower Upper
 165 100
 63 1.5 44.7 67.1#
 89 1.3 44.0 66.0#





#51

Acenaphthene

Concen: 8.328 ng

RT: 10.08 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL

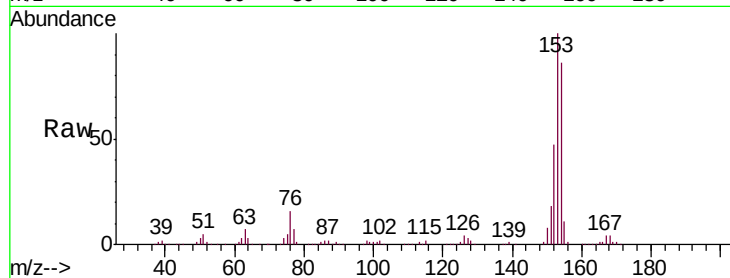
Tgt Ion:154 Resp: 156009

Ion Ratio Lower Upper

154 100

153 115.8 91.2 136.8

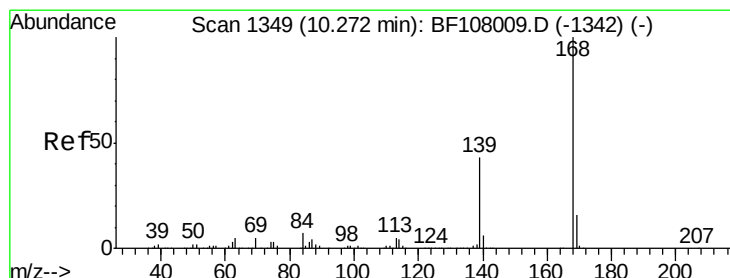
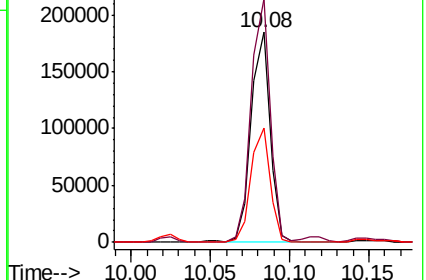
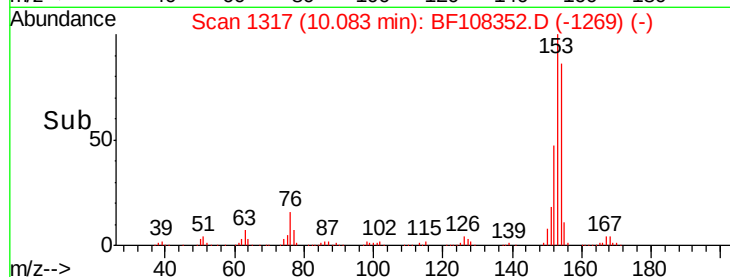
152 54.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.077 ng

RT: 10.25 min Scan# 1346

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

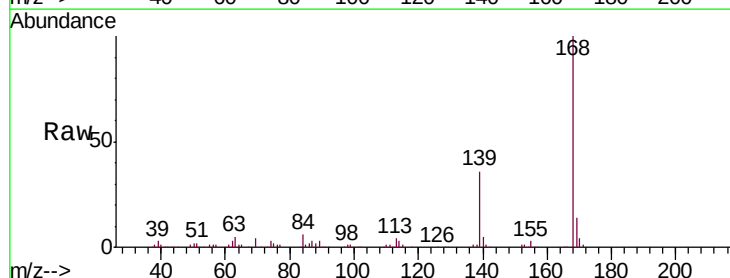
Tgt Ion:168 Resp: 164924

Ion Ratio Lower Upper

168 100

139 36.3 30.1 45.1

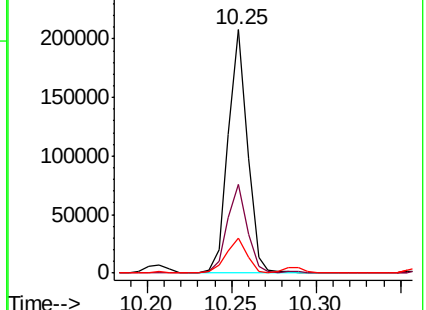
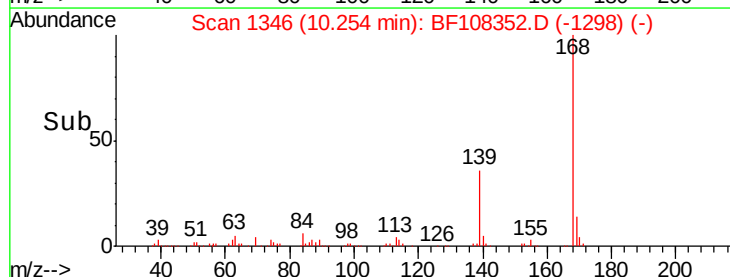
169 14.2 10.9 16.3

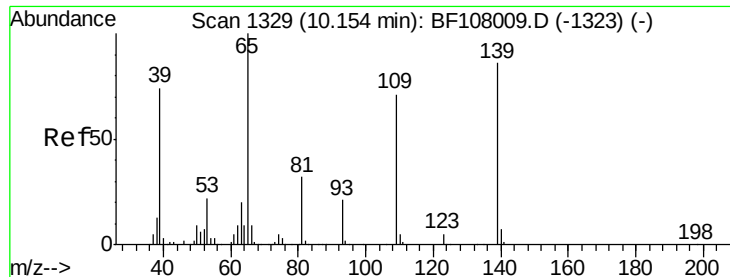


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

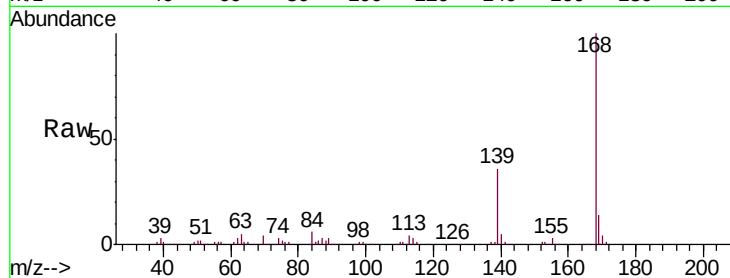




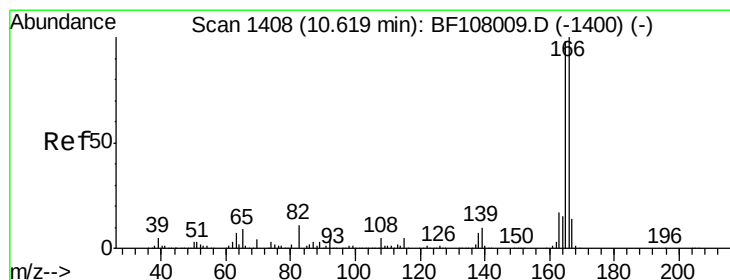
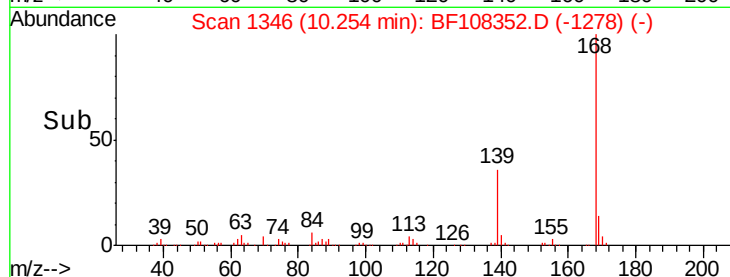
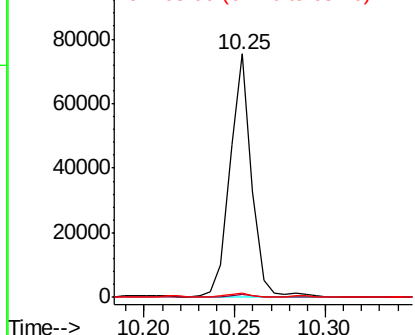
#55
4-Nitrophenol
Concen: 15.664 ng
RT: 10.25 min Scan# 1346
Delta R.T. 0.10 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampleId :
72-11969DL

Tgt Ion	Ratio	Lower	Upper
139	100		
109	1.1	48.4	88.4
65	1.7	72.6	112.6

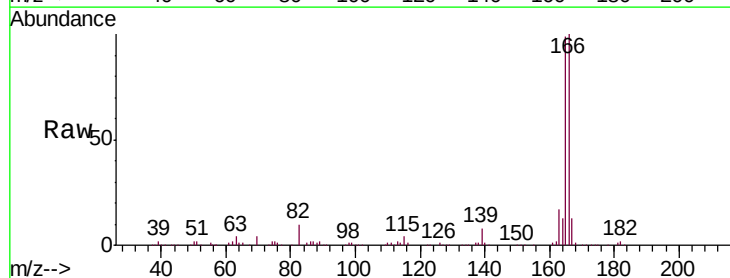


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

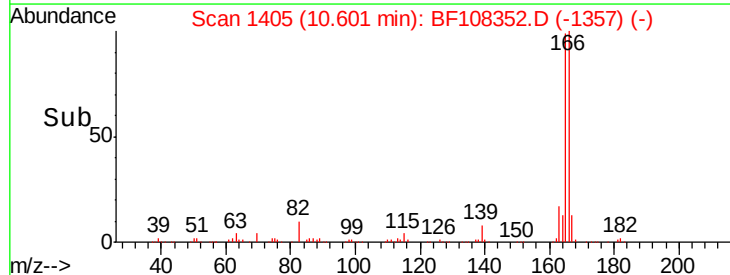
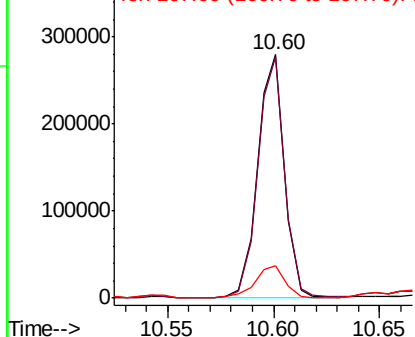


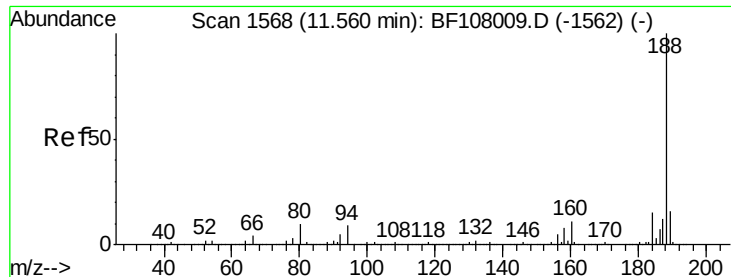
#57
Fluorene
Concen: 11.412 ng
RT: 10.60 min Scan# 1405
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.8	119.8
167	13.4	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

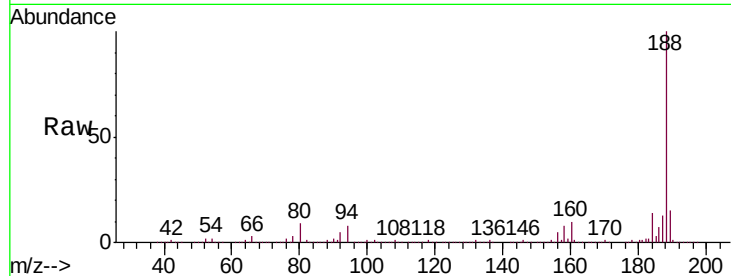




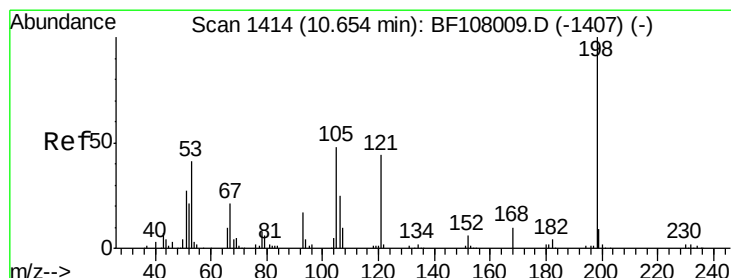
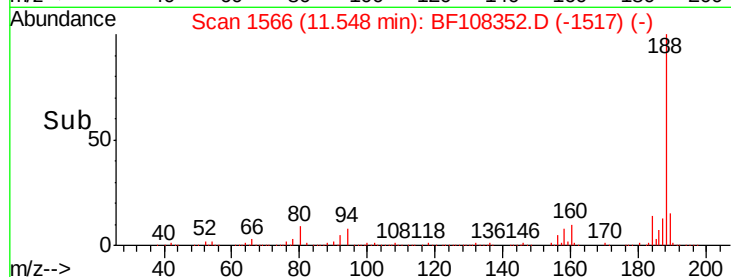
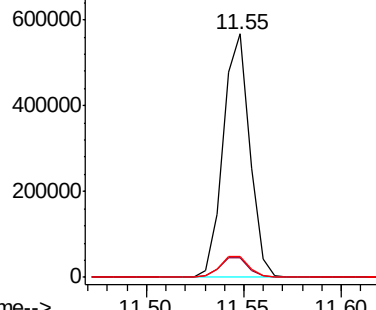
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.55 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 72-11969DL

Tgt Ion:188 Resp: 534706
 Ion Ratio Lower Upper
 188 100
 94 8.3 8.5 12.7#
 80 8.7 9.2 13.8#

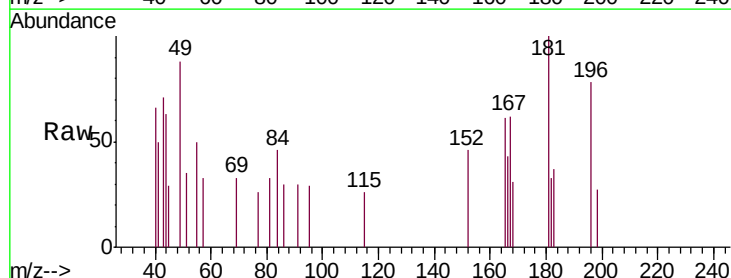


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

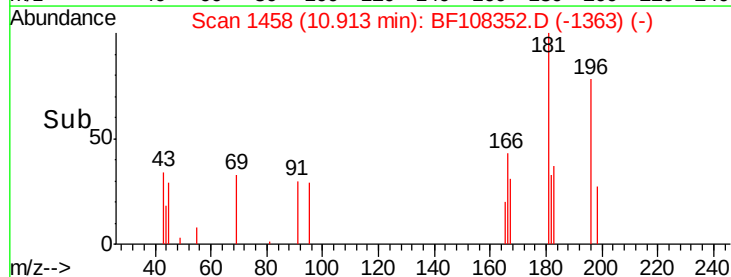
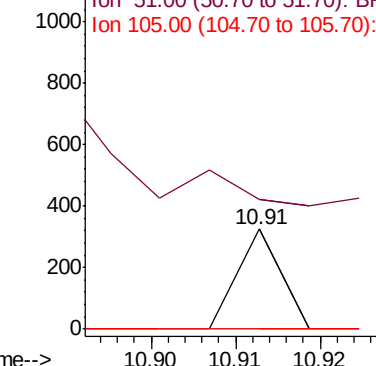


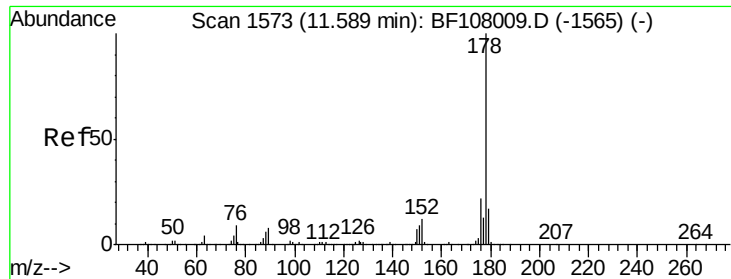
#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.409 ng
 RT: 10.91 min Scan# 1458
 Delta R.T. 0.26 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion:198 Resp: 114
 Ion Ratio Lower Upper
 198 100
 51 129.6 37.7 77.7#
 105 0.0 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 61.858 ng

RT: 11.58 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL

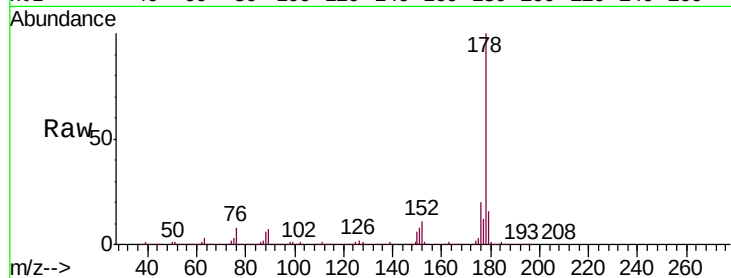
Tgt Ion:178 Resp: 1560070

Ion Ratio Lower Upper

178 100

176 20.4 15.8 23.8

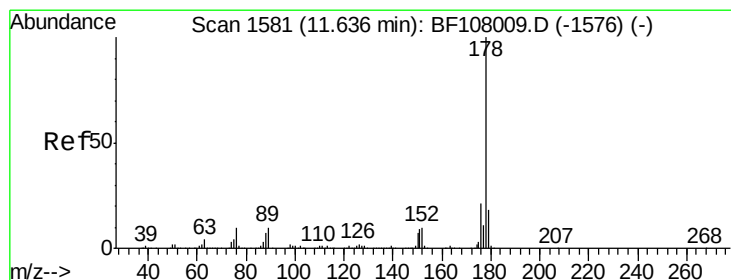
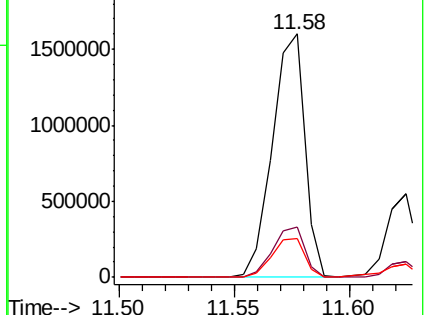
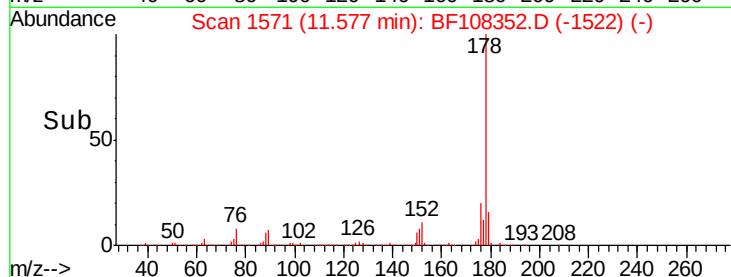
179 15.8 13.0 19.6



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: 18.240 ng

RT: 11.62 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

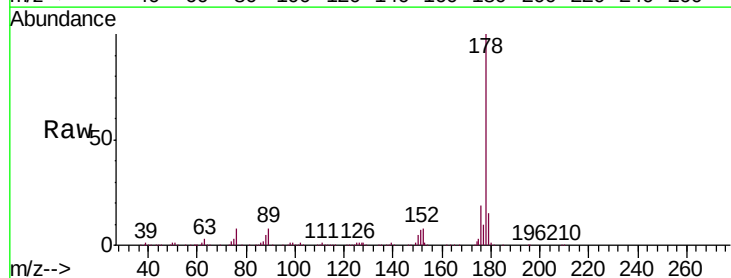
Tgt Ion:178 Resp: 471491

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

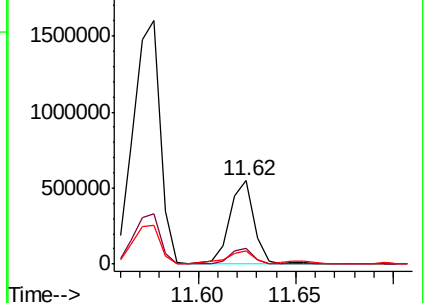
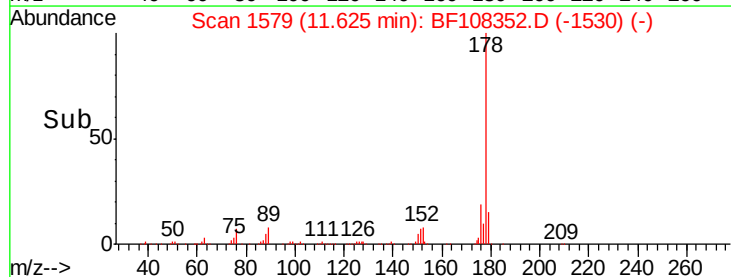
179 15.3 12.6 19.0

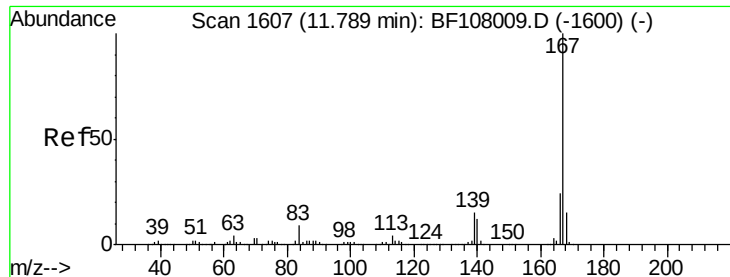


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.401 ng

RT: 11.77 min Scan# 1604

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL

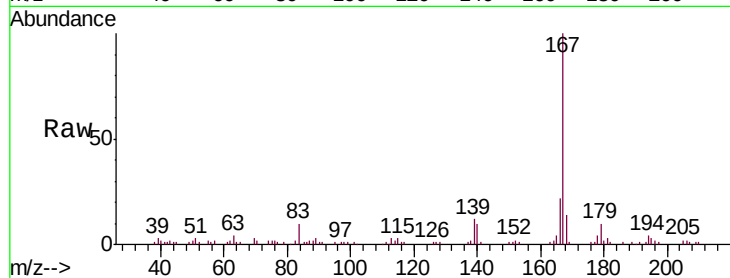
Tgt Ion:167 Resp: 55146

Ion Ratio Lower Upper

167 100

166 22.0 17.6 26.4

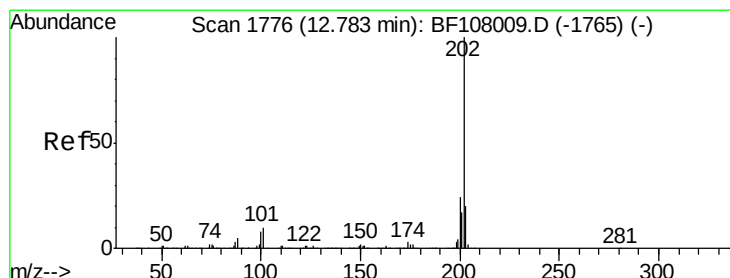
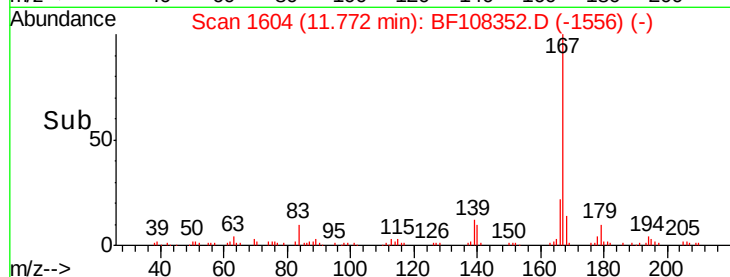
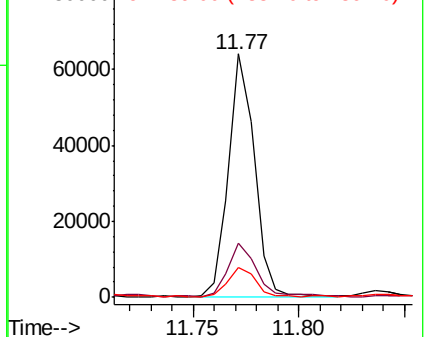
139 12.2 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 50.551 ng

RT: 12.77 min Scan# 1774

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

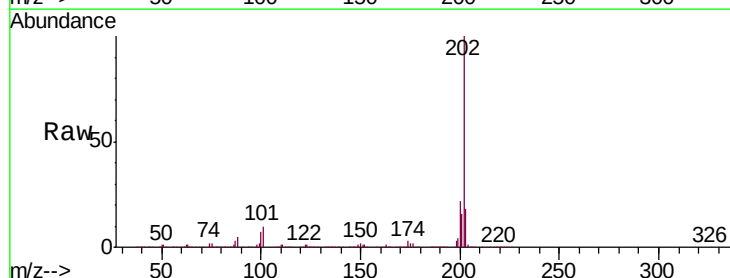
Tgt Ion:202 Resp: 1391397

Ion Ratio Lower Upper

202 100

101 9.8 0.0 34.1

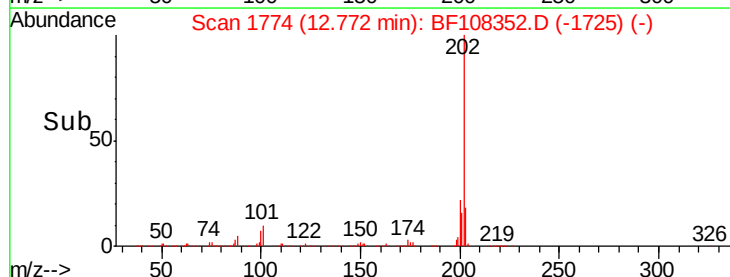
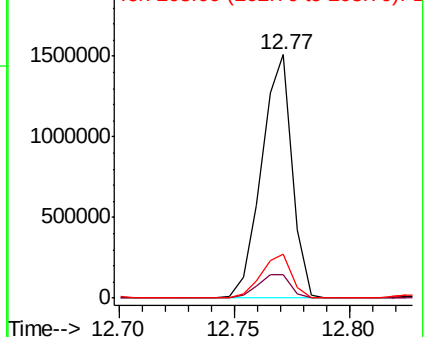
203 18.3 0.0 38.1

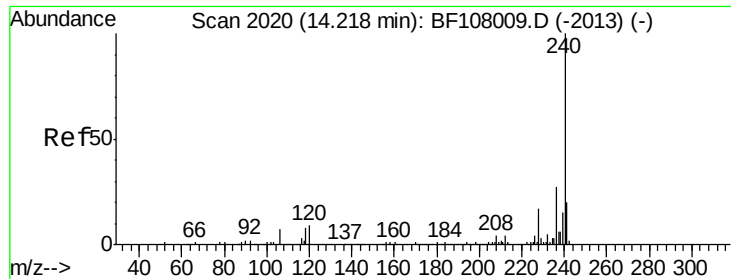


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL

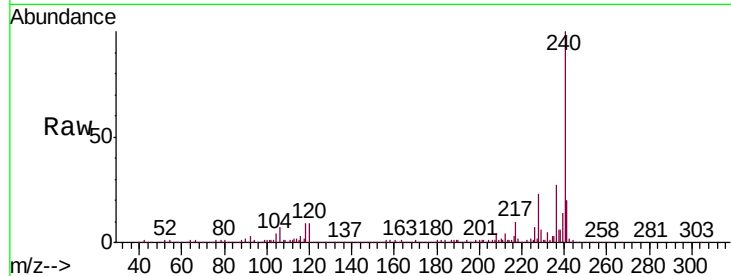
Tgt Ion:240 Resp: 389715

Ion Ratio Lower Upper

240 100

120 9.5 9.5 14.3#

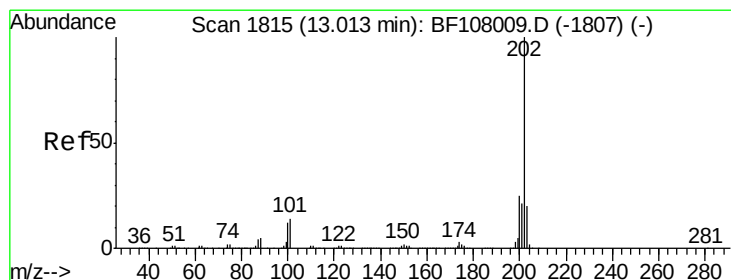
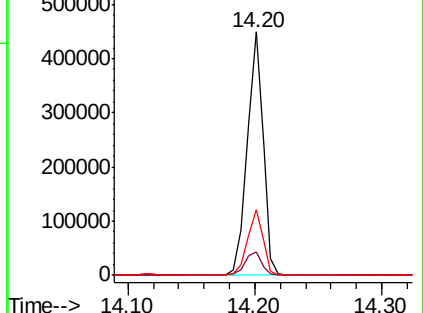
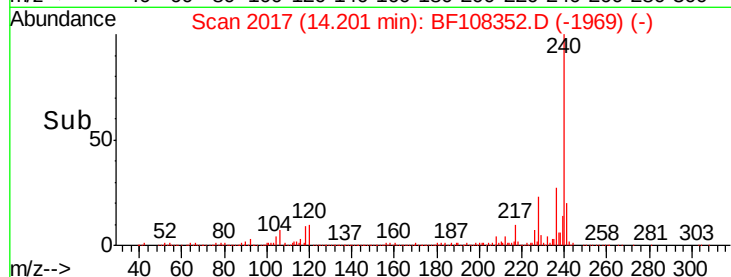
236 26.9 20.7 31.1



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

Pyrene

Concen: 48.500 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

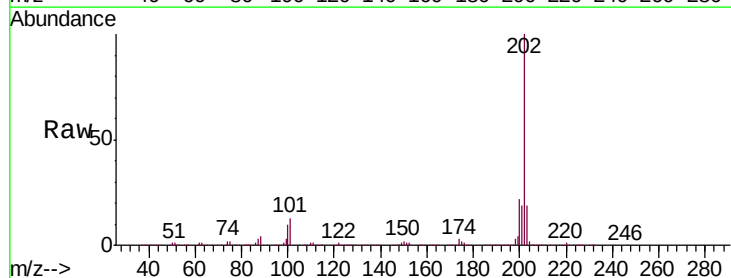
Tgt Ion:202 Resp: 1196632

Ion Ratio Lower Upper

202 100

200 22.4 17.4 26.2

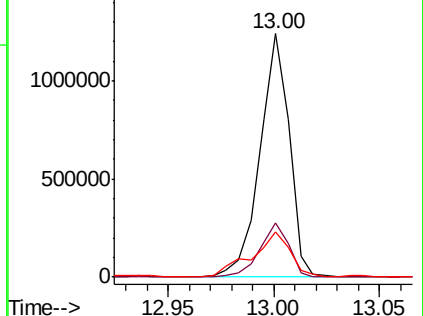
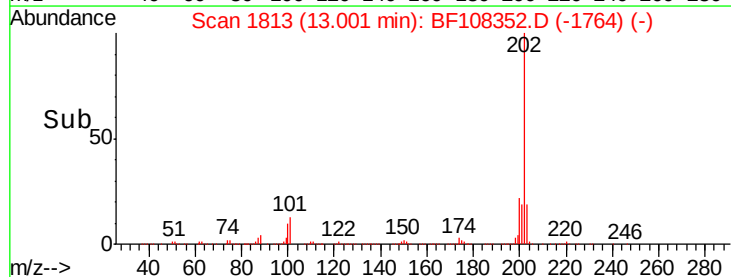
203 18.8 14.3 21.5

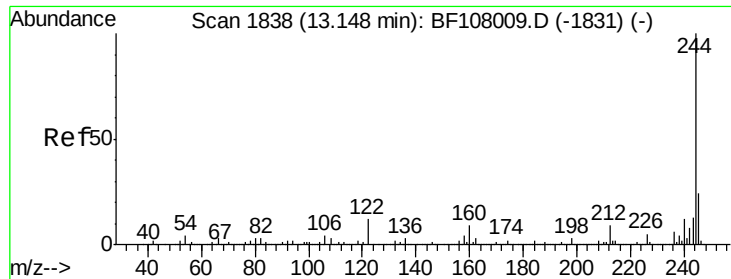


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

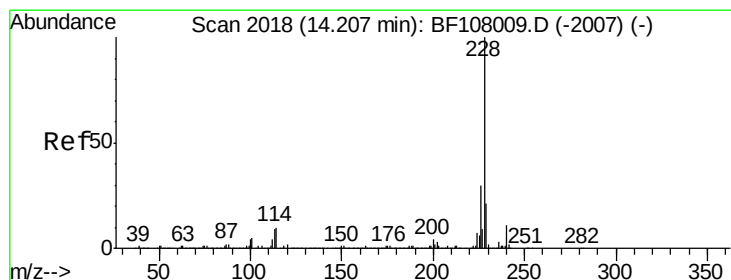
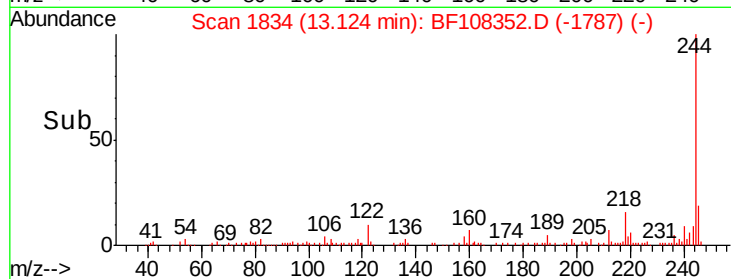
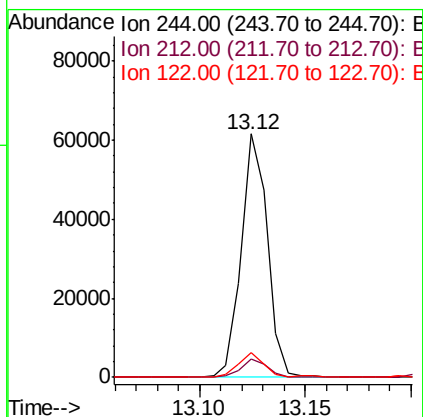
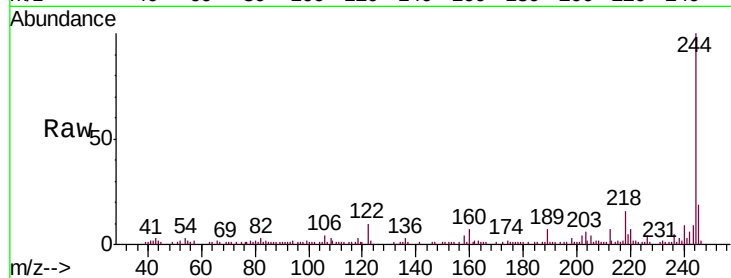




#78
 Terphenyl-d14
 Concen: 3.434 ng
 RT: 13.12 min Scan# 1834
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

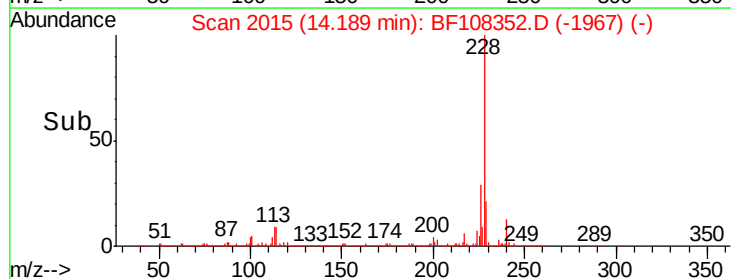
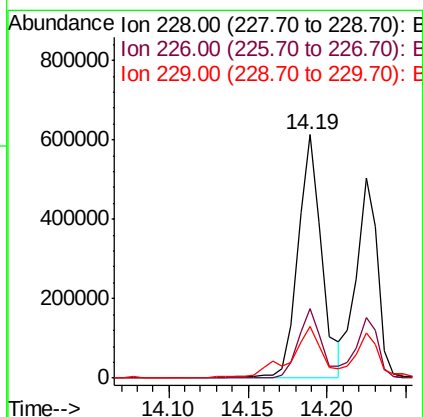
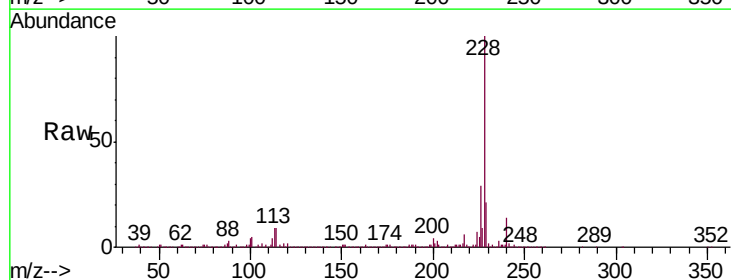
Instrument :
 BNA_F
 ClientSampleId :
 72-11969DL

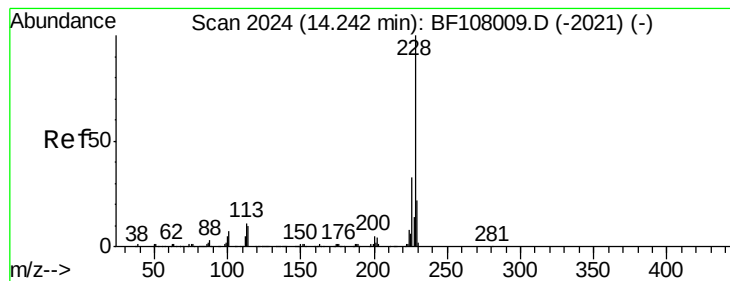
Tgt Ion: 244 Resp: 52636
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.4 8.0
 122 10.4 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 28.353 ng
 RT: 14.19 min Scan# 2015
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion: 228 Resp: 634141
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.6 33.8
 229 21.0 15.8 23.6





#82

Chrysene

Concen: 22.946 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL

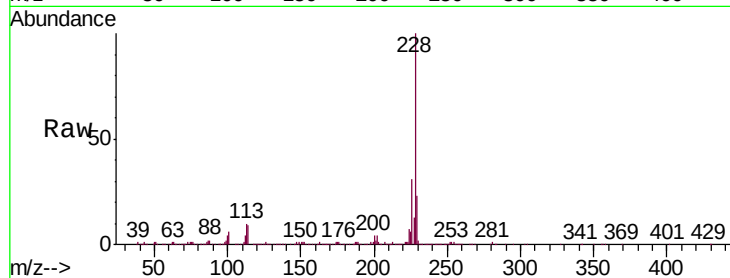
Tgt Ion:228 Resp: 470496

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

229 22.9 16.2 24.4

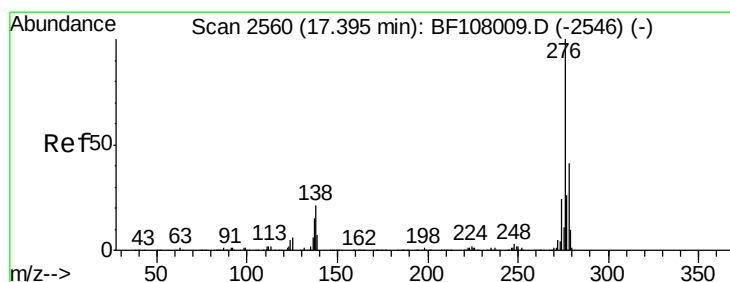
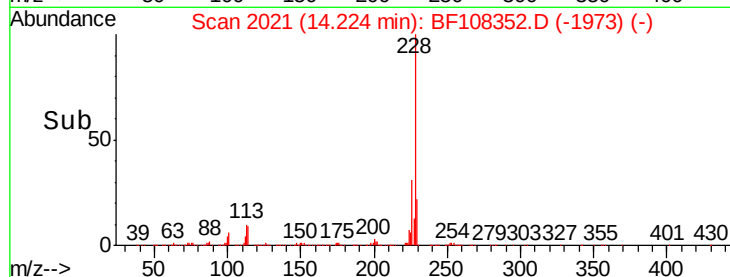
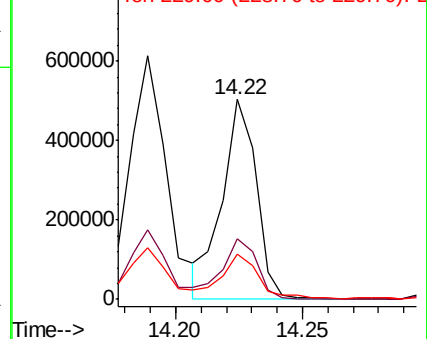


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.789 ng

RT: 17.36 min Scan# 2554

Delta R.T. -0.04 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

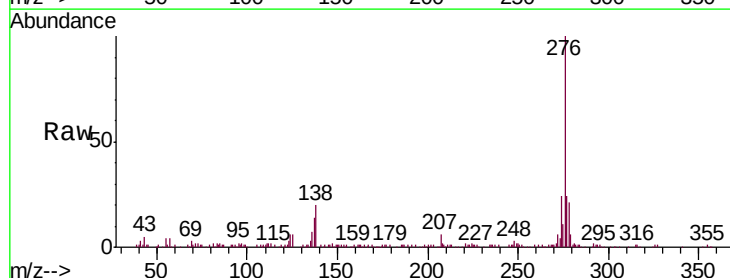
Tgt Ion:276 Resp: 173919

Ion Ratio Lower Upper

276 100

138 19.6 25.0 37.6#

277 25.3 20.1 30.1

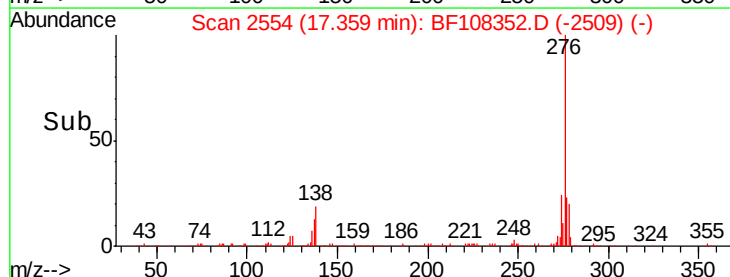
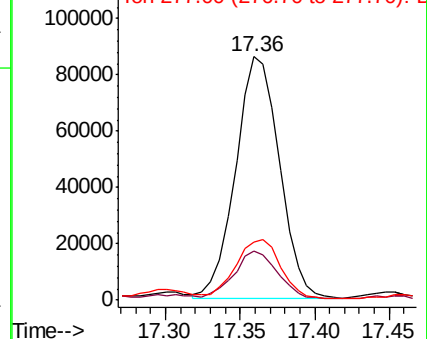


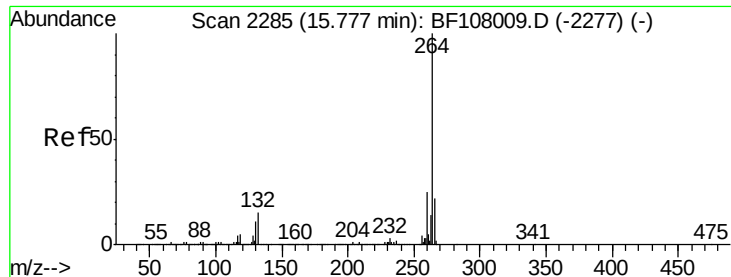
Abundance

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

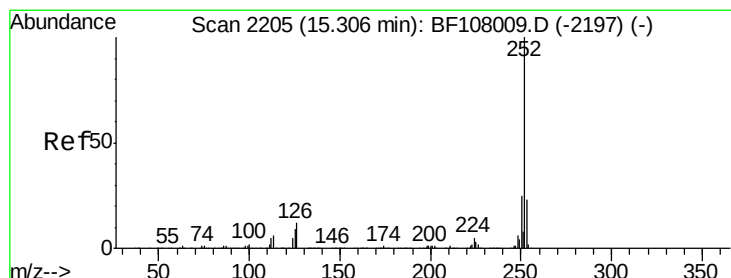
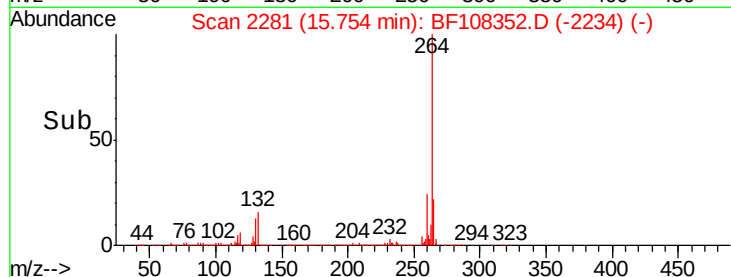
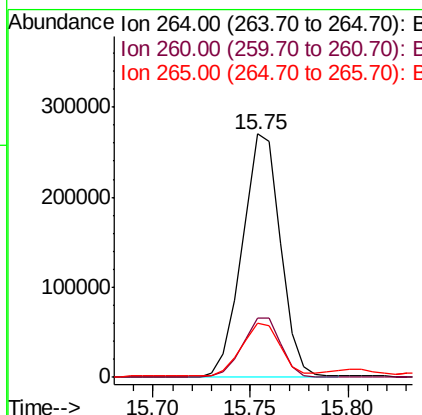
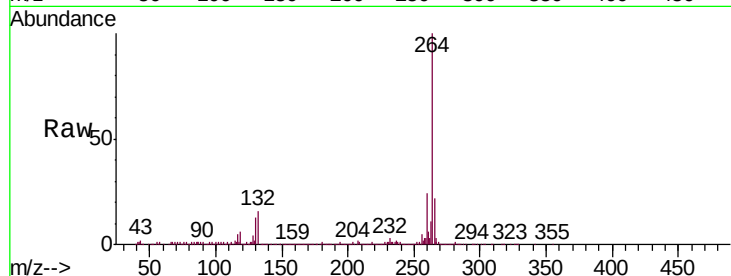




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.75 min Scan# 2281
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

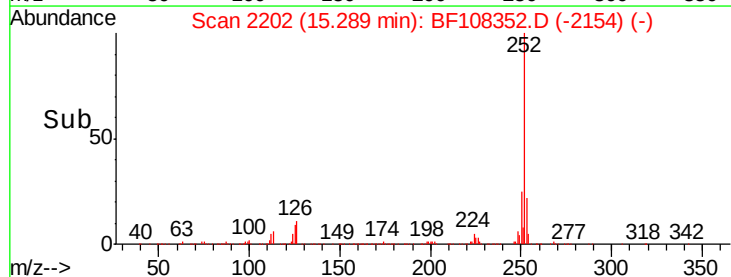
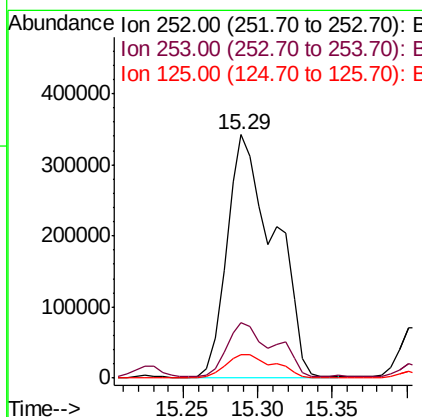
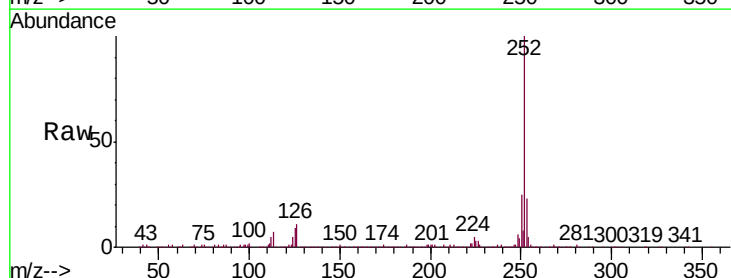
Instrument :
BNA_F
ClientSampleId :
72-11969DL

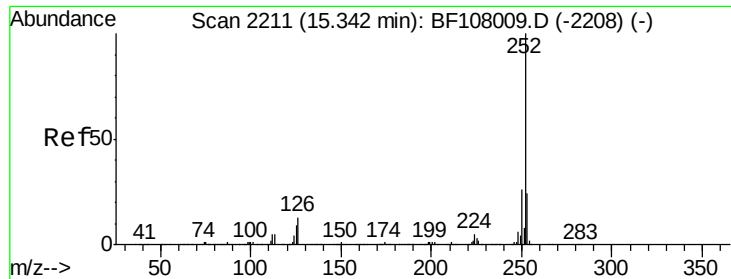
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.3	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 34.416 ng
RT: 15.29 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	9.4	9.0	13.6

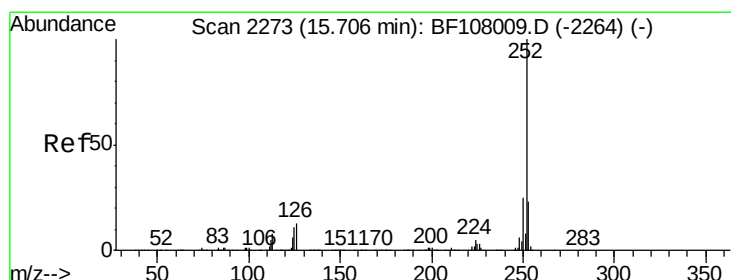
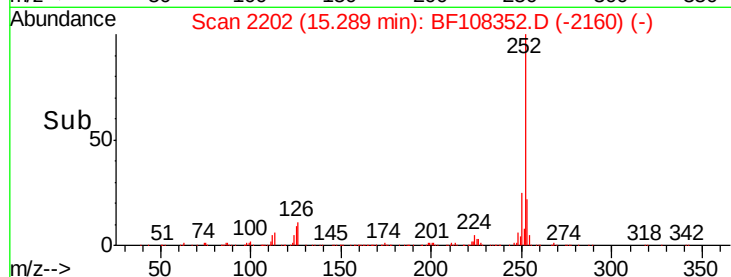
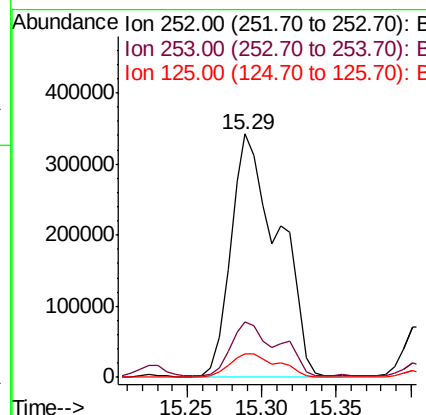
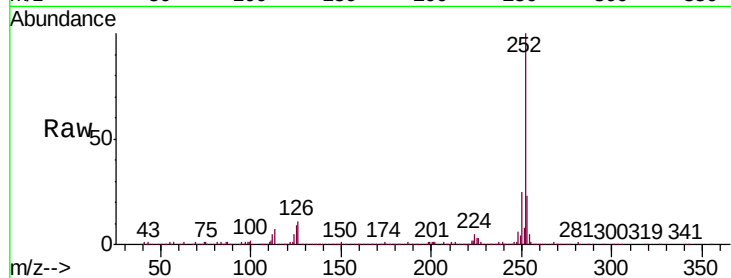




#88
Benzo(k)fluoranthene
Concen: 37.439 ng
RT: 15.29 min Scan# 2202
Delta R.T. -0.05 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

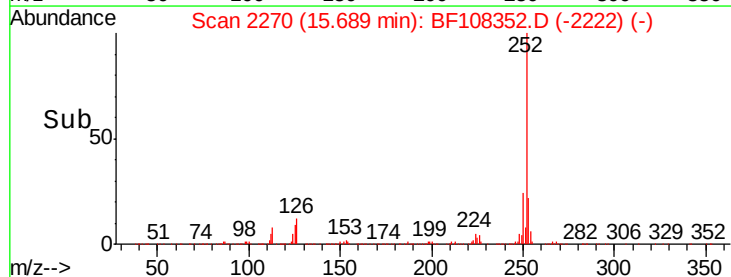
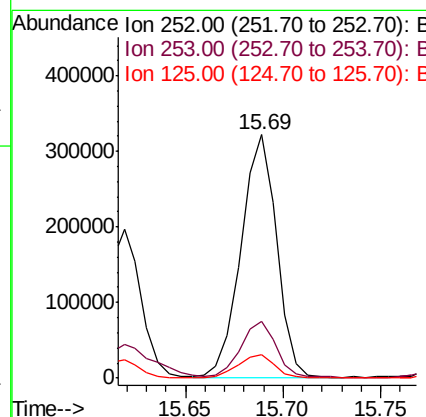
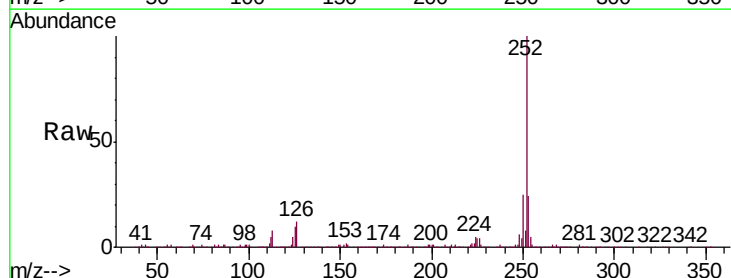
Instrument :
BNA_F
ClientSampleId :
72-11969DL

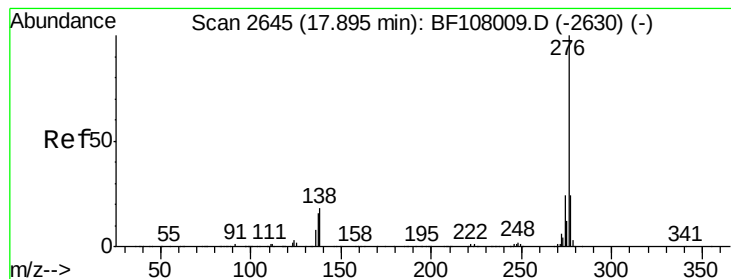
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	9.4	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 20.675 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	9.8	9.8	14.6





#91

Benzo(g,h,i)perylene

Concen: 9.135 ng

RT: 17.85 min Scan# 2638

Delta R.T. -0.04 min

Lab File: BF108352.D

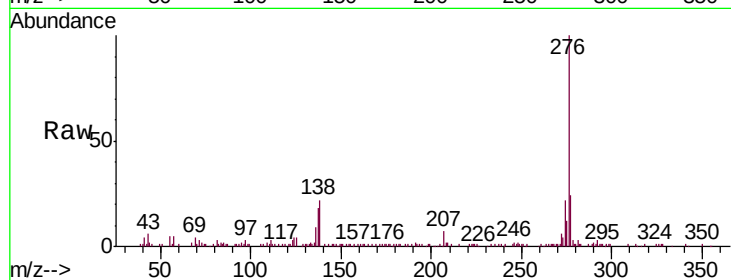
Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

ClientSampleId :

72-11969DL



Tgt Ion:	276	Resp:	145797
Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	21.7	21.8	32.8#

