

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102918\
 Data File : BF110277.D
 Acq On : 29 Oct 2018 22:12
 Operator : JU/SJ
 Sample : J5685-04 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 30 08:05:29 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 29 17:29:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	104869	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	427725	20.00	ng	0.00
39) Acenaphthene-d10	10.01	164	182822	20.00	ng	0.00
64) Phenanthrene-d10	11.50	188	279007	20.00	ng	0.00
76) Chrysene-d12	14.16	240	201079	20.00	ng	0.00
87) Perylene-d12	15.69	264	162474	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.58	112	175472	27.25	ng	0.00
7) Phenol-d6	6.58	99	227671	27.64	ng	-0.01
23) Nitrobenzene-d5	7.53	82	133230	18.48	ng	0.00
42) 2,4,6-Tribromophenol	10.80	330	39952	22.06	ng	0.00
45) 2-Fluorobiphenyl	9.32	172	277277	23.82	ng	0.00
79) Terphenyl-d14	13.09	244	190381	19.69	ng	0.00

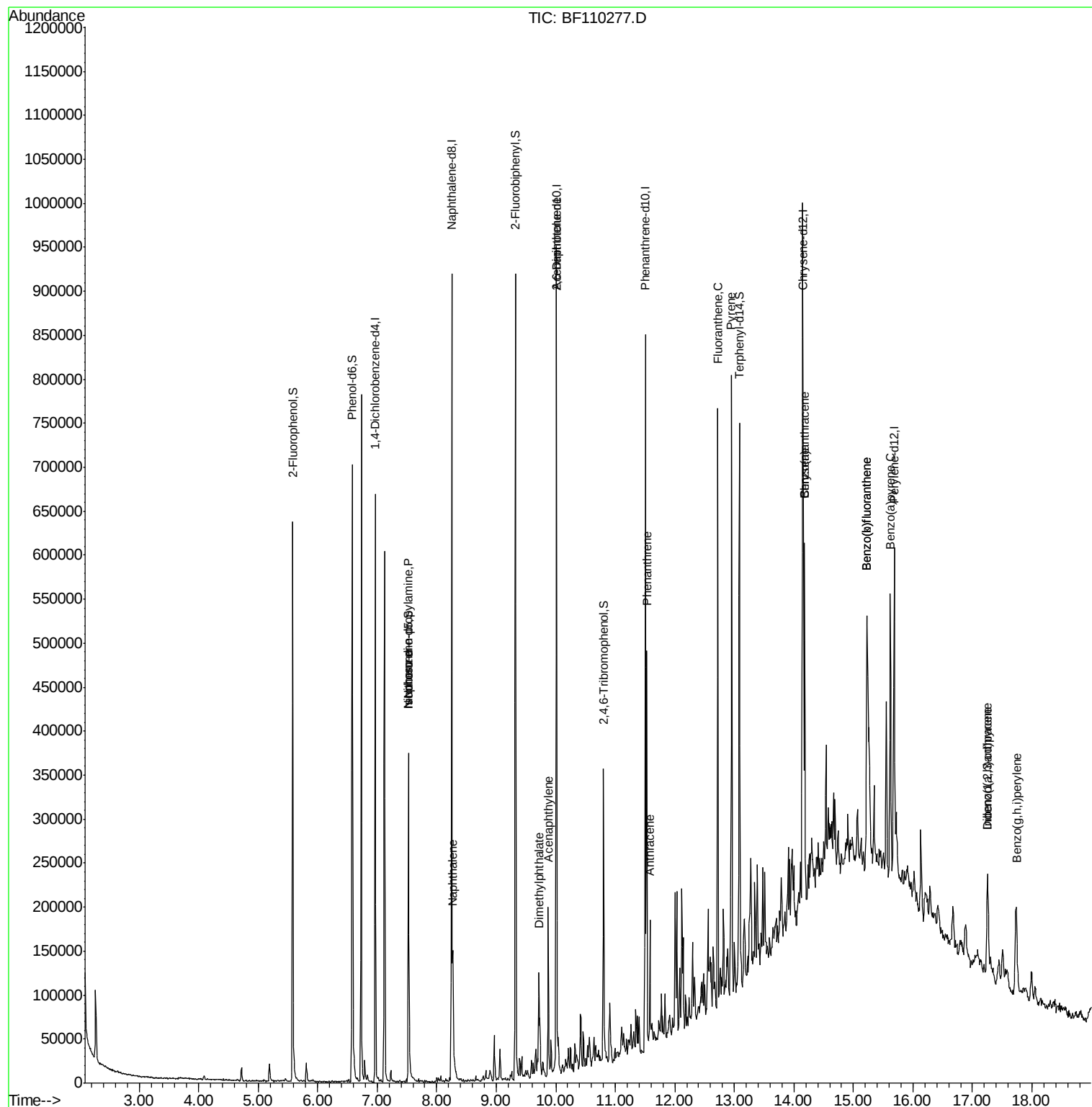
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.52	77	310	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.53	70	17614	3.333	ng	# 79
25) Isophorone	7.53	82	133227	10.838	ng	# 67
31) Naphthalene	8.27	128	55786	2.830	ng	99
49) Acenaphthylene	9.87	152	88768	5.068	ng	98
50) Dimethylphthalate	9.72	163	41325	3.062	ng	100
51) 2,6-Dinitrotoluene	10.01	165	25221	8.676	ng	# 23
71) Phenanthrene	11.53	178	150333	10.298	ng	100
72) Anthracene	11.58	178	57000	3.895	ng	98
75) Fluoranthene	12.72	202	233863	15.784	ng	99
77) Benzydine	12.82	184	271	Below Cal		# 1
78) Pvrene	12.96	202	295061	20.468	ng	97
81) Benzo(a)anthracene	14.18	228	156934	13.161	ng	96
83) Chrysene	14.18	228	156934	13.856	ng	98
86) Indeno(1,2,3-cd)pyrene	17.26	276	74792	7.960	ng	96
88) Benzo(b)fluoranthene	15.23	252	225167	23.999	ng	# 96
89) Benzo(k)fluoranthene	15.23	252	225167	24.412	ng	# 95
90) Benzo(a)pyrene	15.62	252	145254	16.825	ng	99
91) Dibenzo(a,h)anthracene	17.26	278	19837	2.663	ng	# 84
92) Benzo(a,h,i)perylene	17.73	276	86961	11.847	ng	95

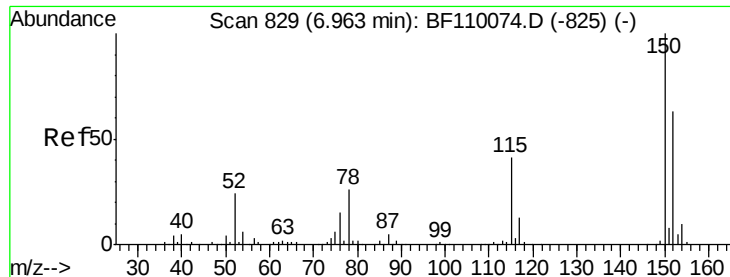
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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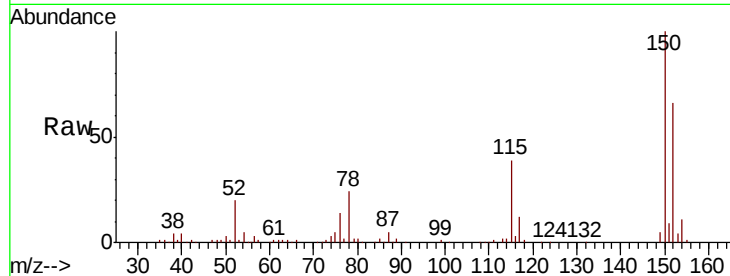


#1

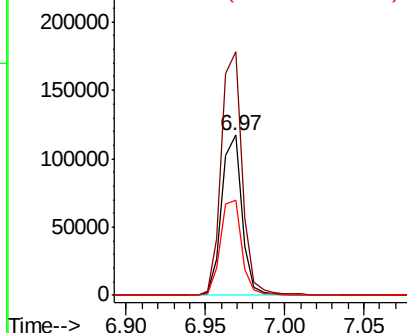
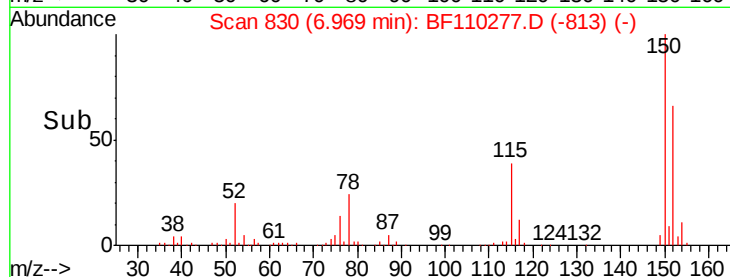
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. 0.00 min
 Lab File: BF110277.D
 Acq: 29 Oct 2018 22:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 104869
 Ion Ratio Lower Upper
 152 100
 150 151.8 122.7 184.1
 115 59.1 49.1 73.7



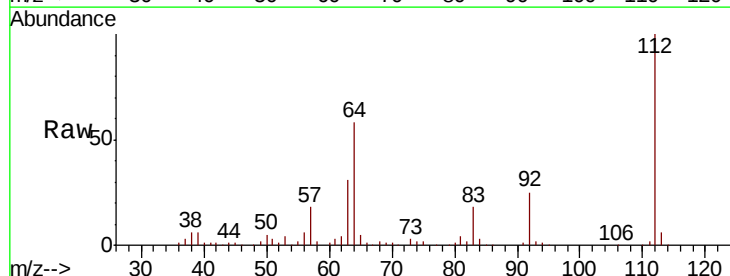
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



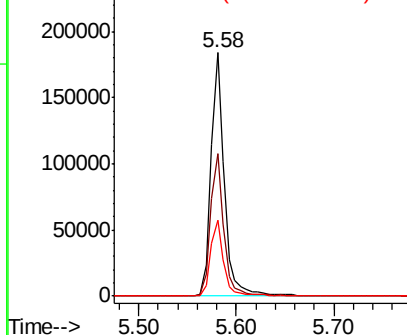
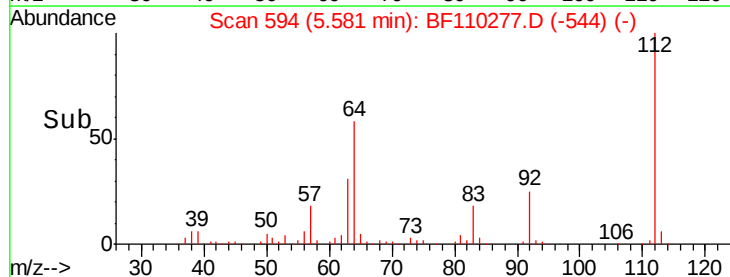
#5

2-Fluorophenol
 Concen: 27.248 ng
 RT: 5.58 min Scan# 594
 Delta R.T. -0.01 min
 Lab File: BF110277.D
 Acq: 29 Oct 2018 22:12

Tgt Ion:112 Resp: 175472
 Ion Ratio Lower Upper
 112 100
 64 58.3 44.1 66.1
 63 31.4 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: 27.640 ng

RT: 6.58 min Scan# 764

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

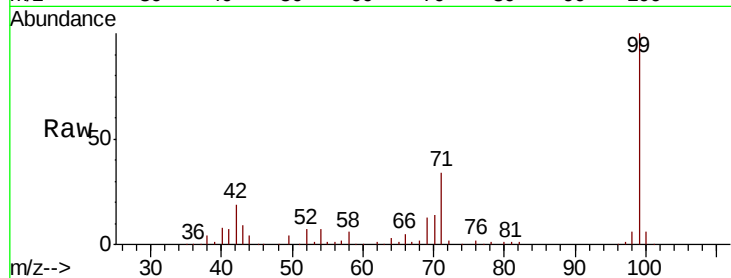
Tot Ion: 99 Resp: 227671

Ion Ratio Lower Upper

99 100

42 19.0 15.8 23.6

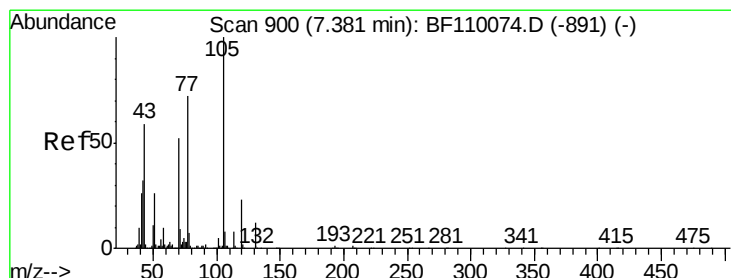
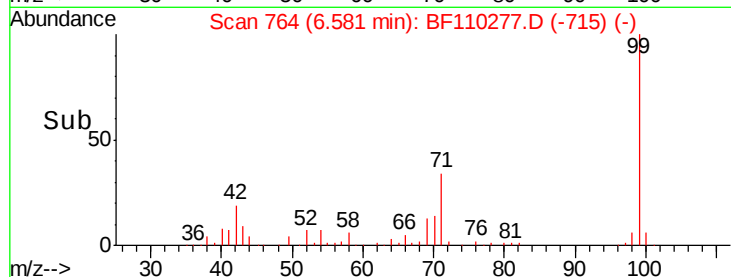
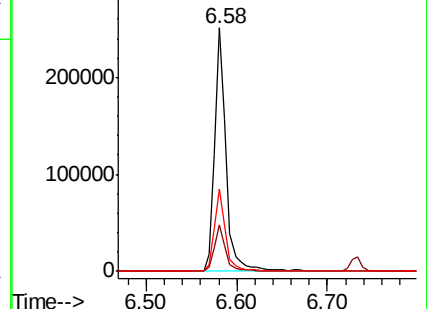
71 34.0 28.0 42.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.333 ng

RT: 7.53 min Scan# 925

Delta R.T. 0.15 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Tgt Ion: 70 Resp: 17614

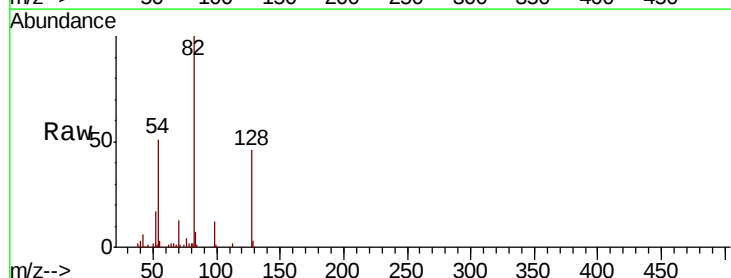
Ion Ratio Lower Upper

70 100

42 48.5 47.4 71.2

101 0.0 7.3 10.9#

130 2.3 16.2 24.2#

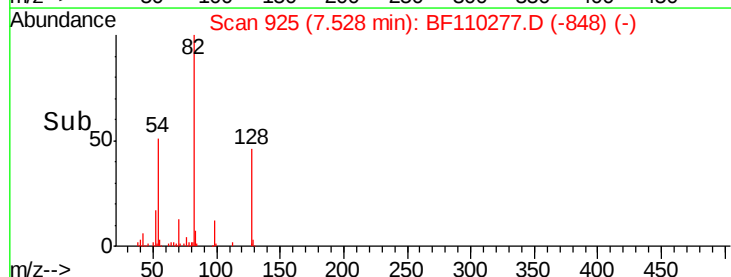
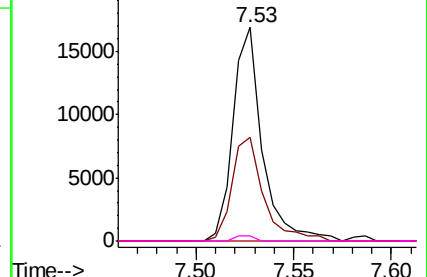


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

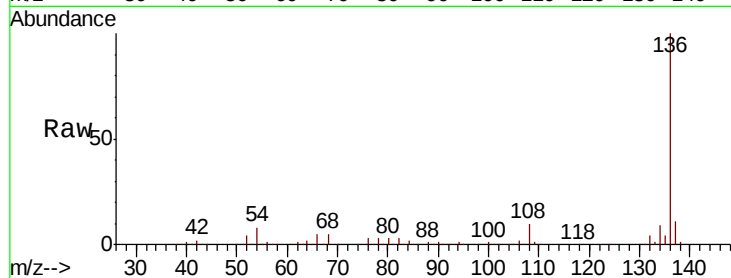




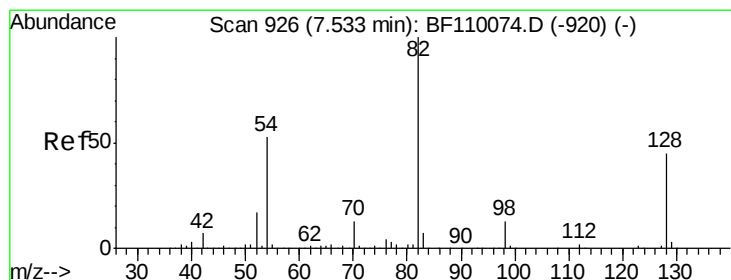
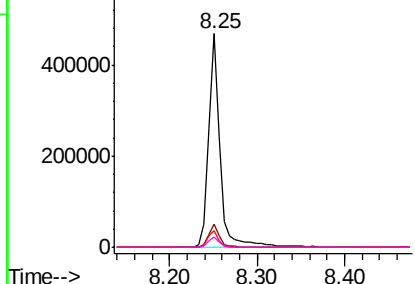
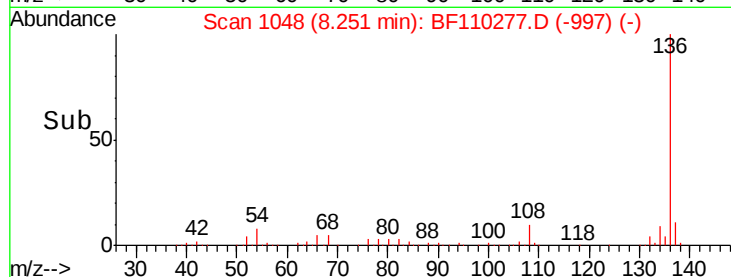
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136 Resp: 427725
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.5 5.4 8.2
68 5.0 4.2 6.2

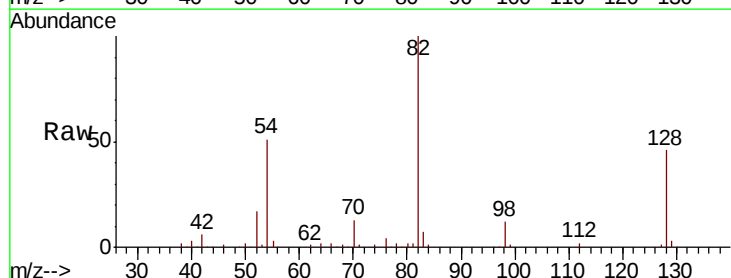


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

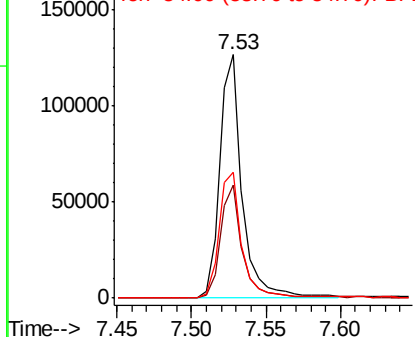
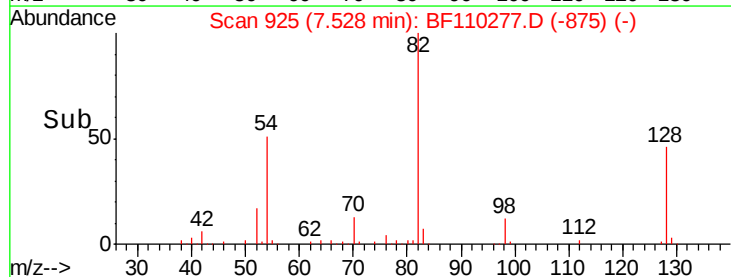


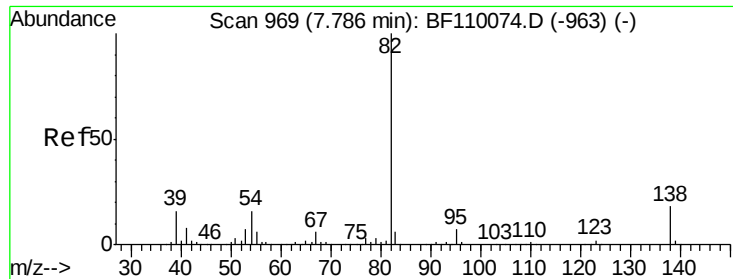
#23
Nitrobenzene-d5
Concen: 18.475 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Tgt Ion: 82 Resp: 133230
Ion Ratio Lower Upper
82 100
128 46.2 34.2 51.2
54 51.5 38.6 58.0



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





#25

Isophorone

Concen: 10.838 ng

RT: 7.53 min Scan# 925

Delta R.T. -0.26 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

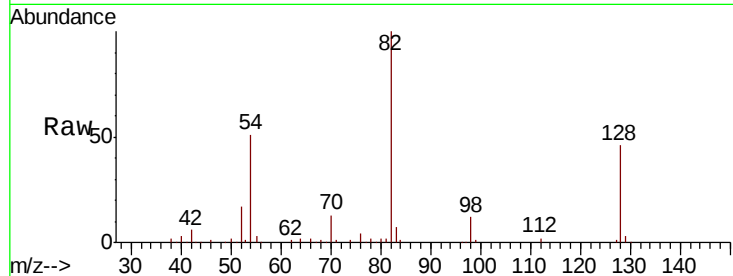
Tot Ion: 82 Resp: 133227

Ion Ratio Lower Upper

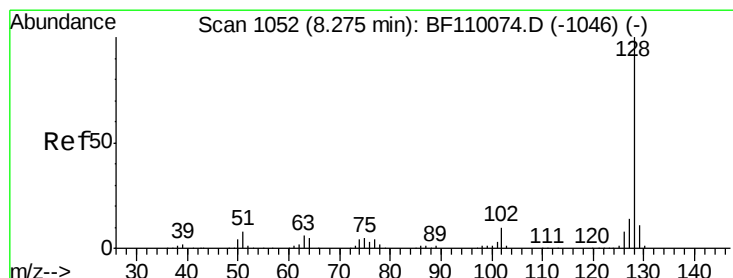
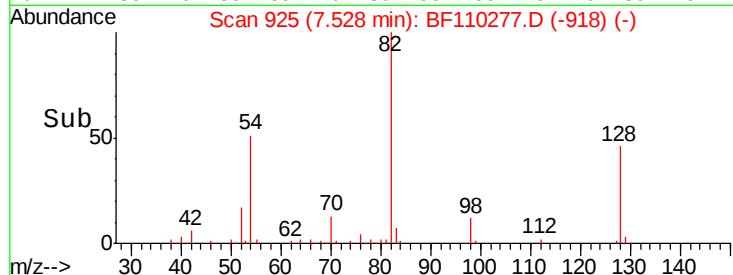
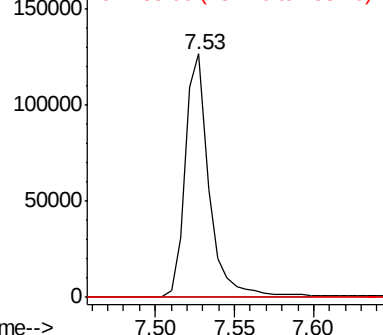
82 100

95 0.0 5.7 8.5#

138 0.0 13.2 19.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 2.830 ng

RT: 8.27 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

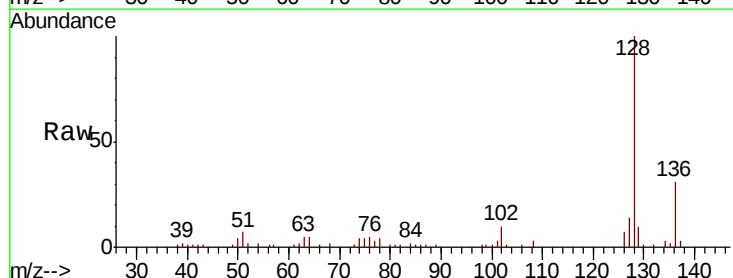
Tgt Ion: 128 Resp: 55786

Ion Ratio Lower Upper

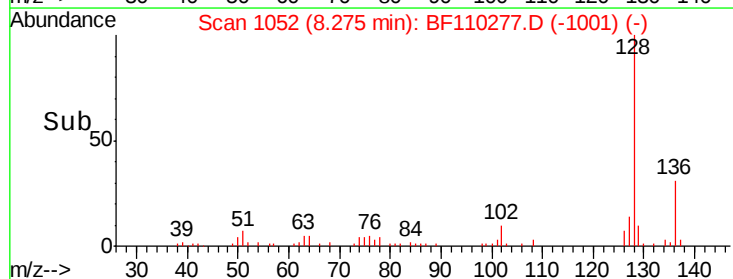
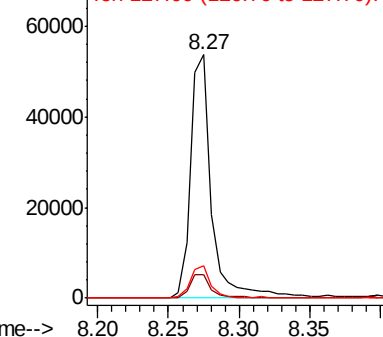
128 100

129 9.8 8.8 13.2

127 13.5 10.8 16.2



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

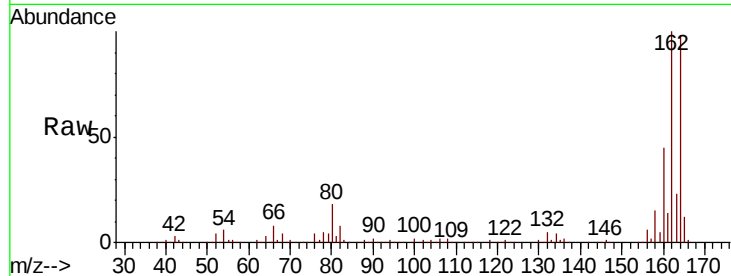
Tot Ion:164 Resp: 182822

Ion Ratio Lower Upper

164 100

162 102.5 83.0 124.6

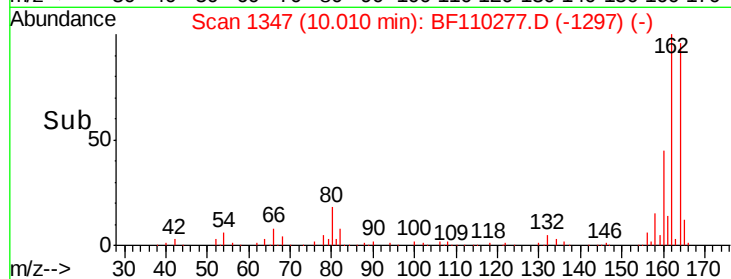
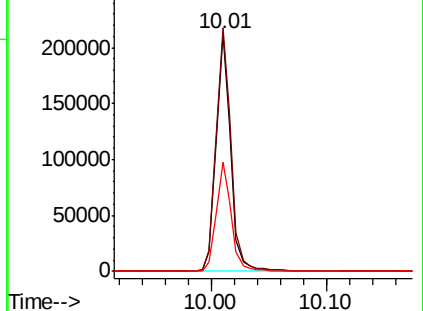
160 46.0 37.0 55.6



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



#42

2,4,6-Tribromophenol

Concen: 22.061 ng

RT: 10.80 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

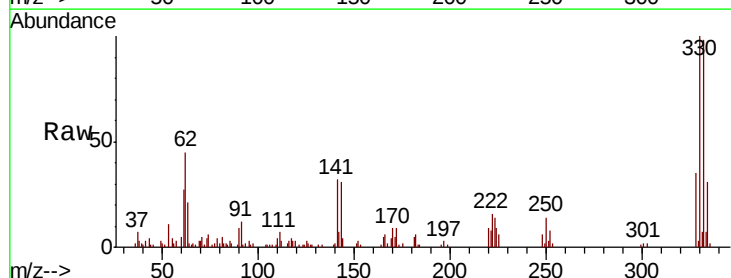
Tgt Ion:330 Resp: 39952

Ion Ratio Lower Upper

330 100

332 98.1 77.1 115.7

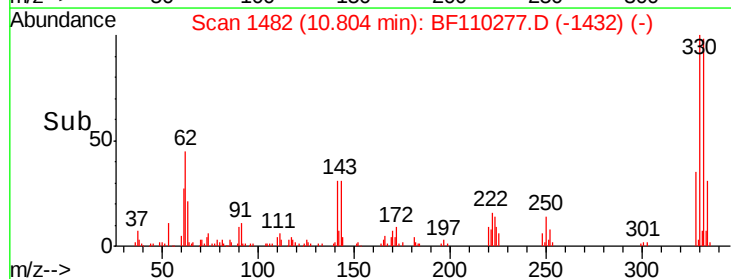
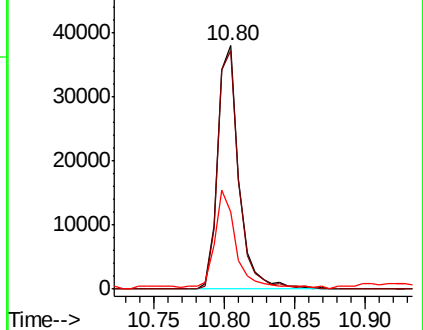
141 41.5 27.0 40.4#



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

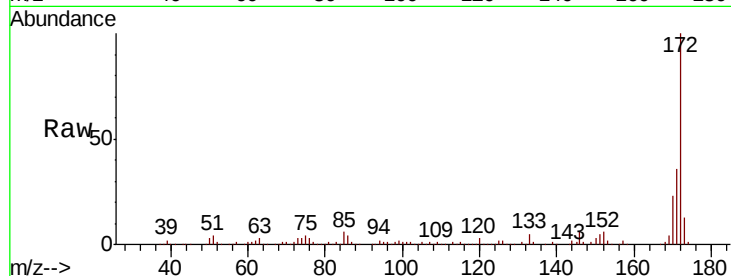




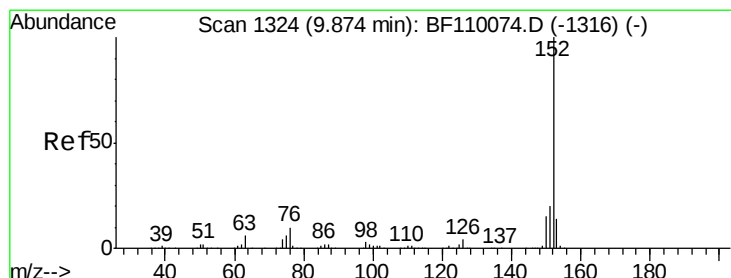
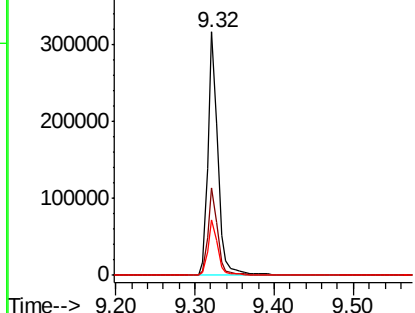
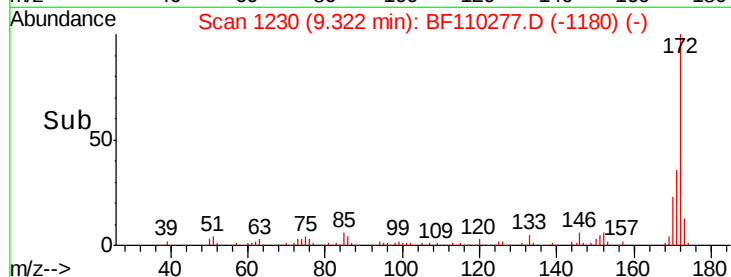
#45
 2-Fluorobiphenyl
 Concen: 23.815 ng
 RT: 9.32 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BF110277.D
 Acq: 29 Oct 2018 22:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.0	19.7	29.5

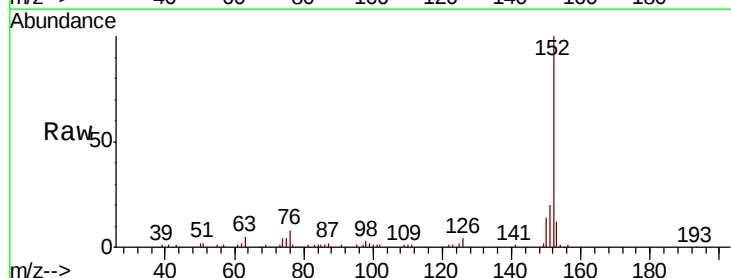


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

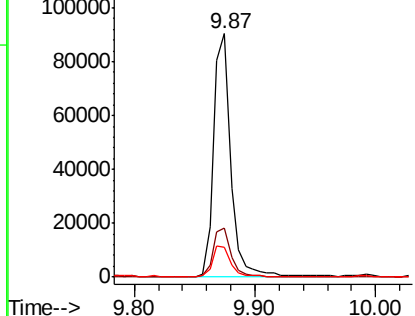
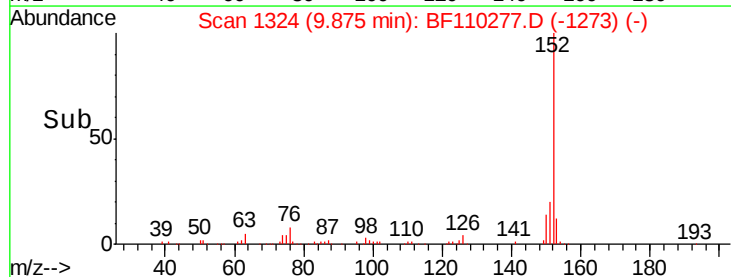


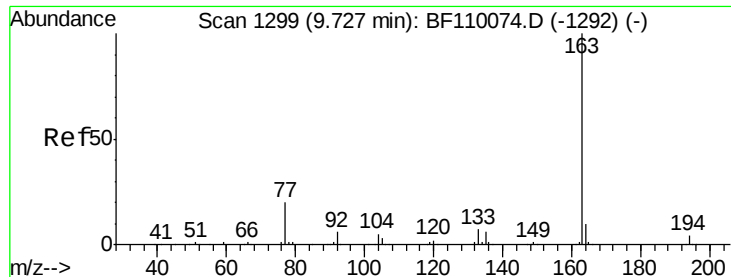
#49
 Acenaphthylene
 Concen: 5.068 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: BF110277.D
 Acq: 29 Oct 2018 22:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	12.1	10.4	15.6



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

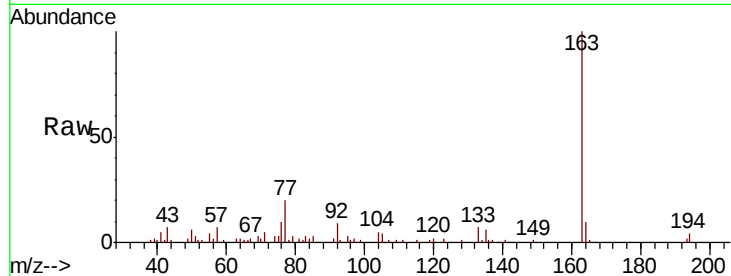




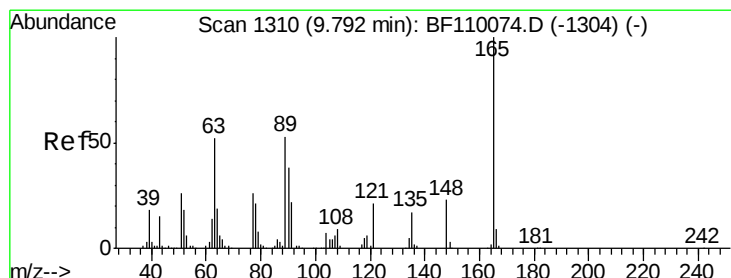
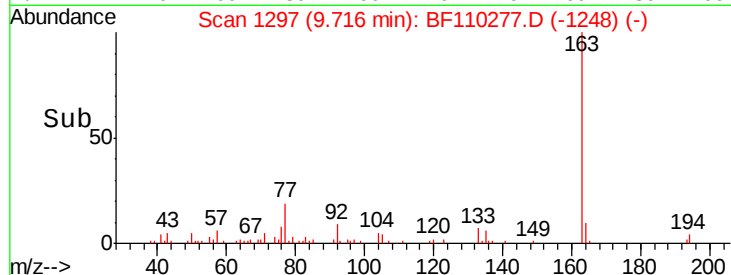
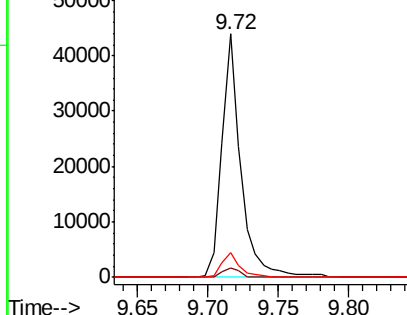
#50
Dimethylphthalate
Concen: 3.062 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.2	4.8
164	10.1	8.1	12.1

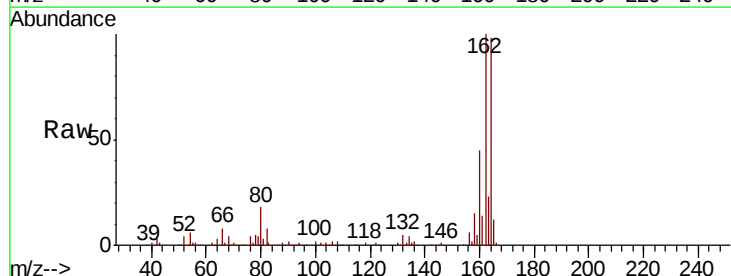


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

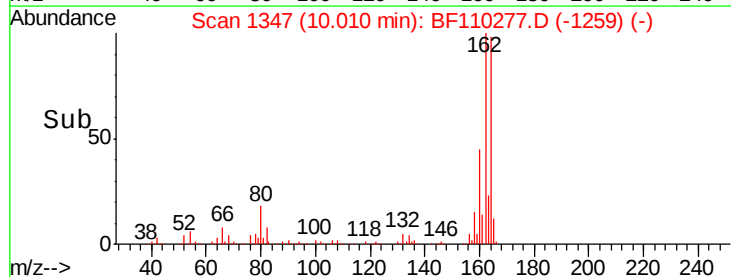
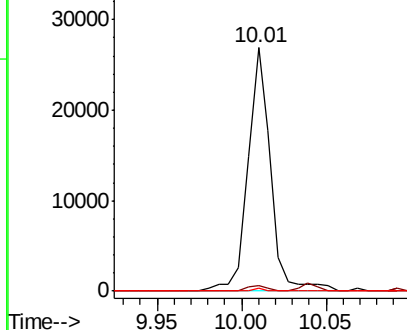


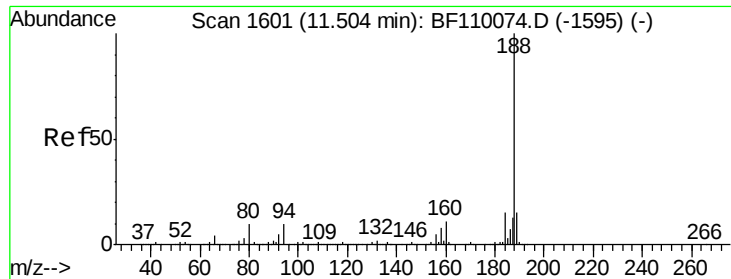
#51
2,6-Dinitrotoluene
Concen: 8.676 ng
RT: 10.01 min Scan# 1347
Delta R.T. 0.22 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.2	48.9	73.3#
89	1.3	46.6	69.8#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

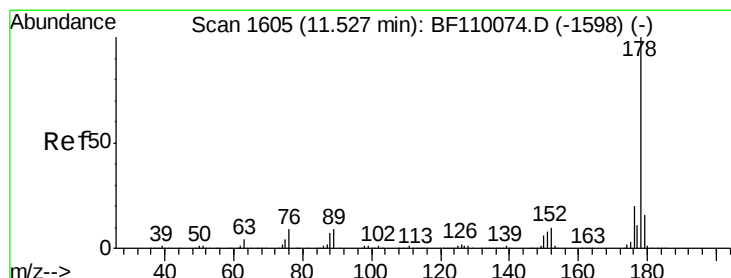
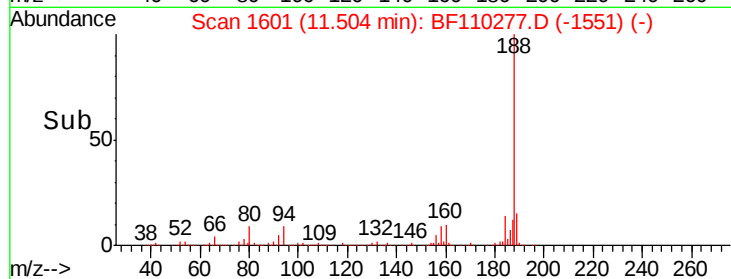
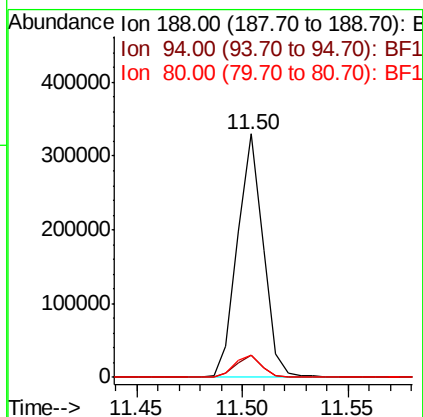
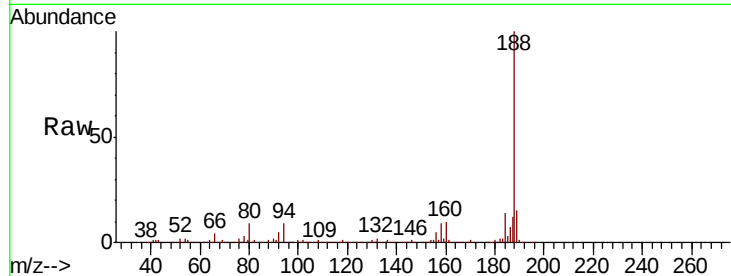




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

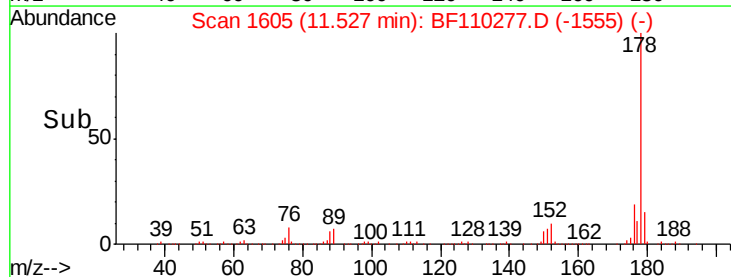
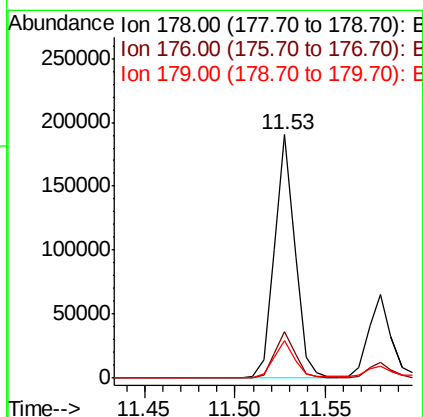
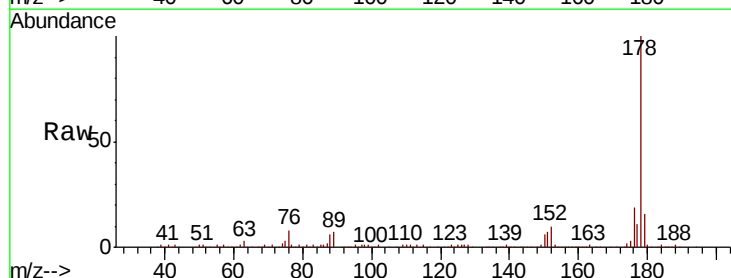
Instrument :
BNA_F
ClientSampleId :

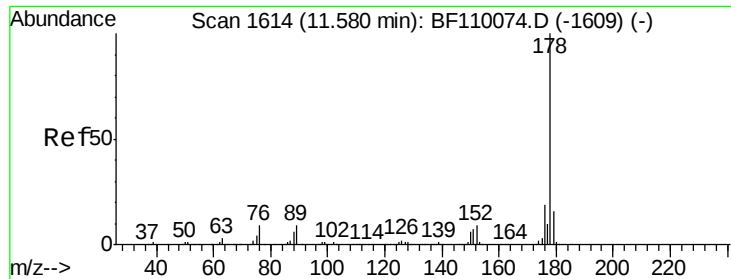
Tot Ion:188 Resp: 279007
Ion Ratio Lower Upper
188 100
94 9.2 7.2 10.8
80 8.9 7.9 11.9



#71
Phenanthrene
Concen: 10.298 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.01 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Tgt Ion:178 Resp: 150333
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.6 12.5 18.7





#72

Anthracene

Concen: 3.895 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

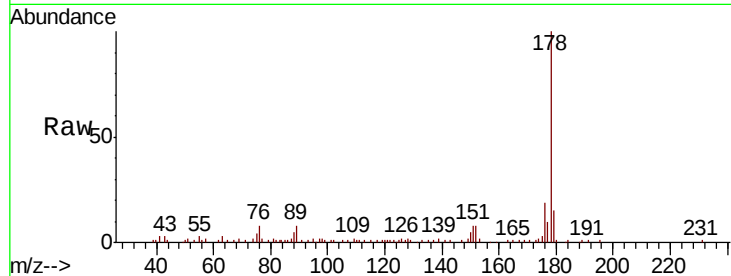
Tot Ion:178 Resp: 57000

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

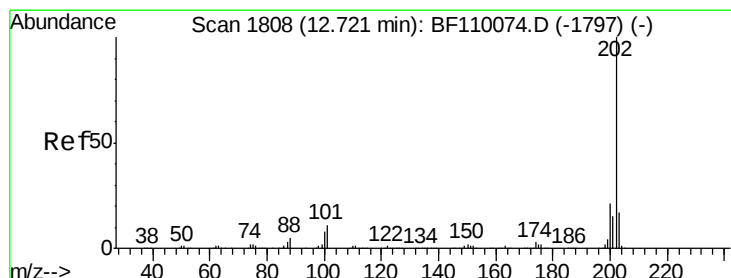
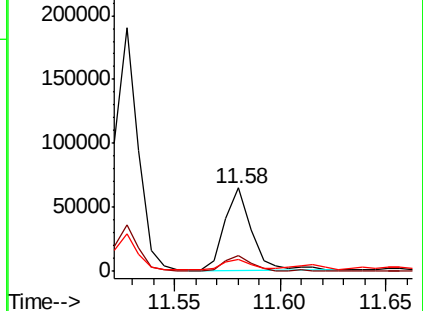
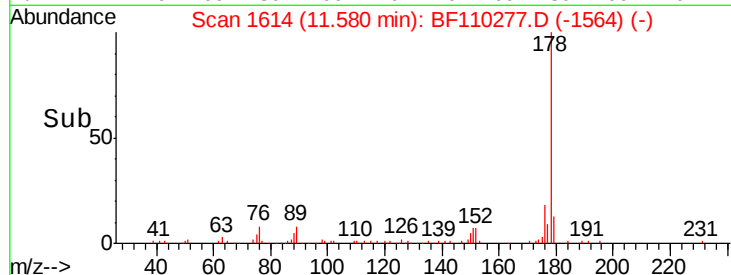
179 14.6 12.6 18.8



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



#75

Fluoranthene

Concen: 15.784 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

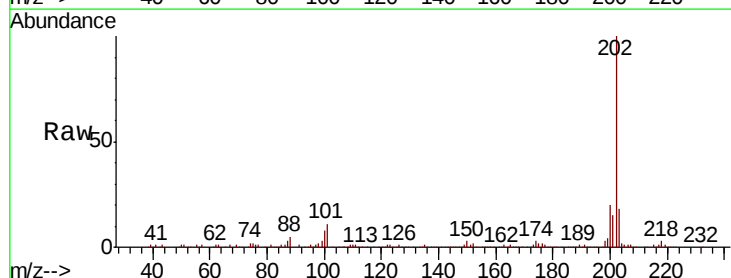
Tgt Ion:202 Resp: 233863

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.4

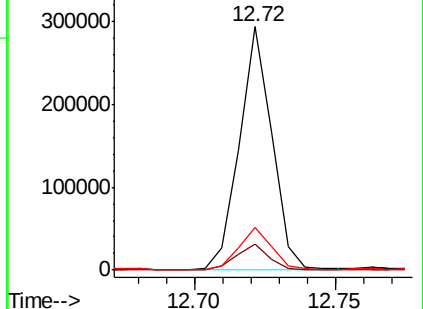
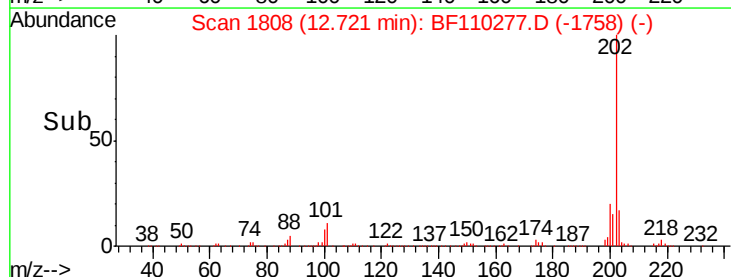
203 17.5 0.0 37.7

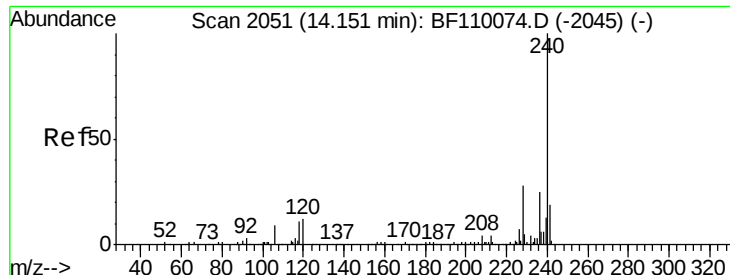


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

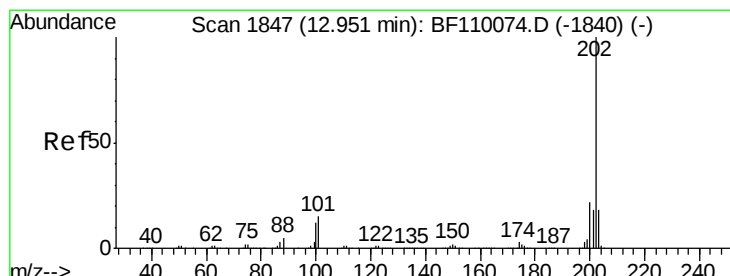
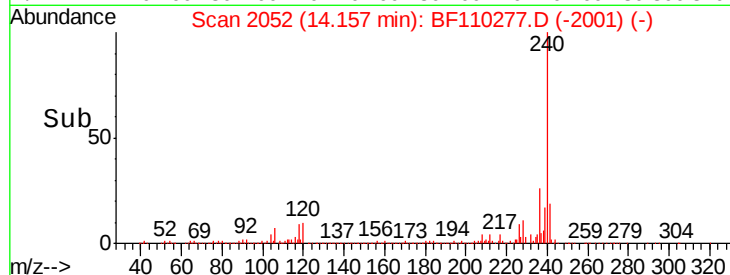
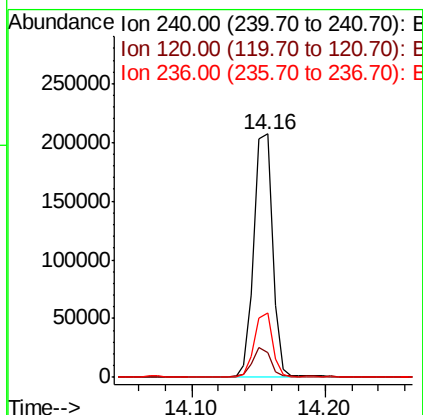
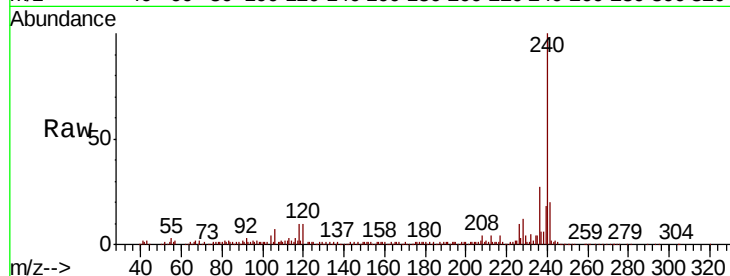




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.16 min Scan# 2052
Delta R.T. 0.00 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

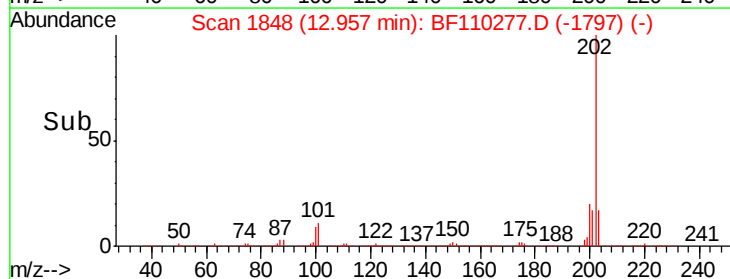
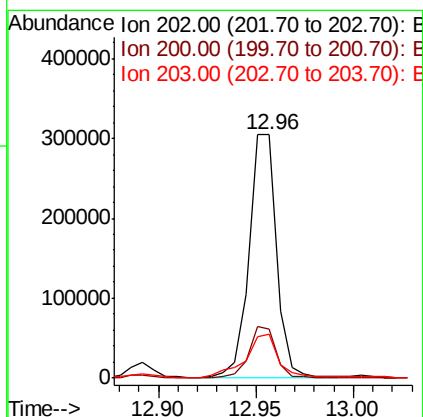
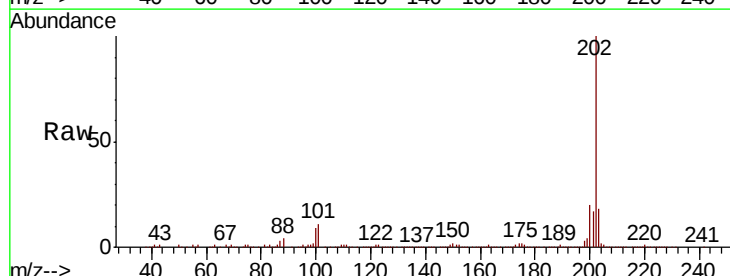
Instrument :
BNA_F
ClientSampleId :

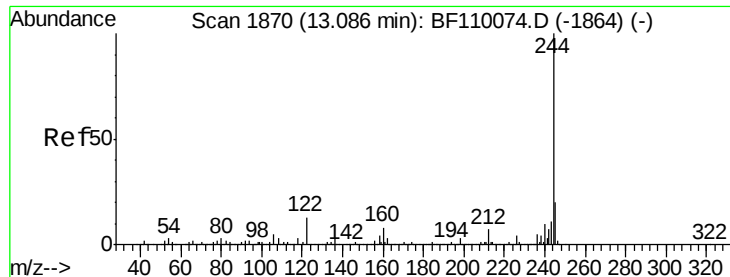
Tot Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.3	12.5
236	26.6	21.2	31.8



#78
Pyrene
Concen: 20.468 ng
RT: 12.96 min Scan# 1848
Delta R.T. 0.00 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.3	17.8	26.6
203	18.1	14.2	21.4





#79

Terphenyl-d14

Concen: 19.691 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

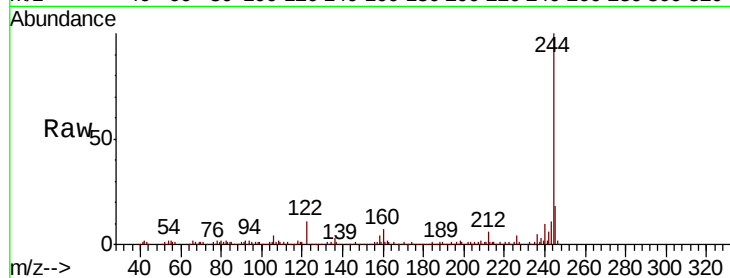
Tot Ion:244 Resp: 190381

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.8

122 11.2 8.7 13.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

300000

250000

200000

150000

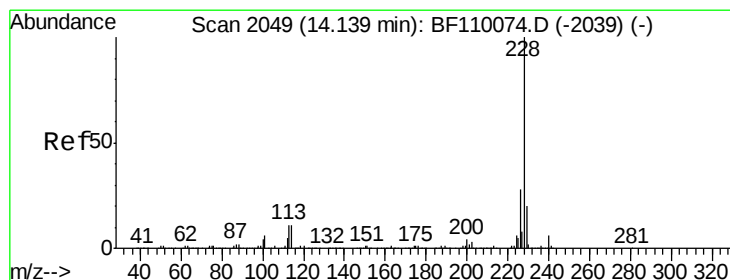
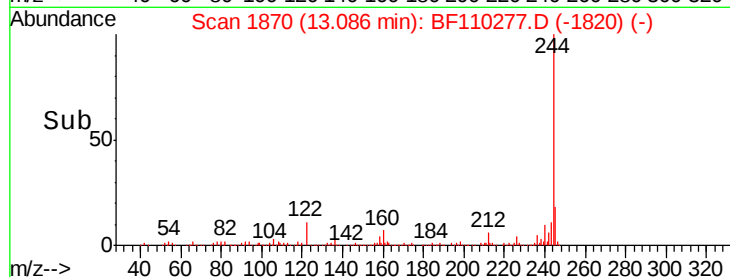
100000

50000

0

13.05 13.10 13.15

Time-->



#81

Benzo(a)anthracene

Concen: 13.161 ng

RT: 14.18 min Scan# 2056

Delta R.T. 0.04 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

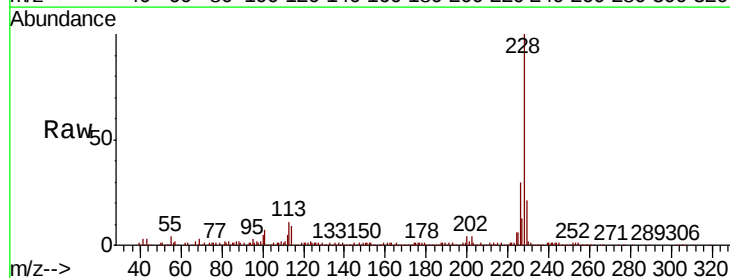
Tgt Ion:228 Resp: 156934

Ion Ratio Lower Upper

228 100

226 29.9 22.1 33.1

229 21.4 15.6 23.4



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

200000

150000

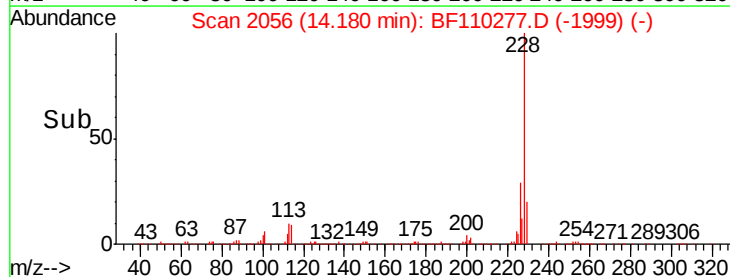
100000

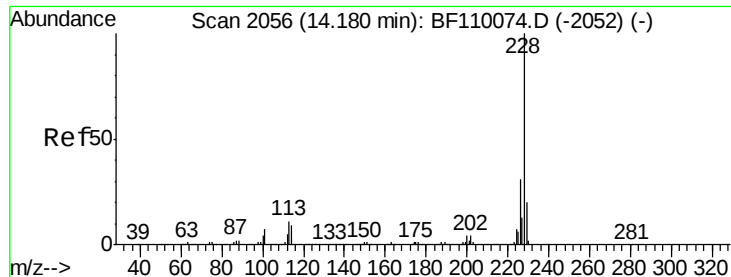
50000

0

14.15 14.20 14.25

Time-->





#83

Chrysene

Concen: 13.856 ng

RT: 14.18 min Scan# 2056

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

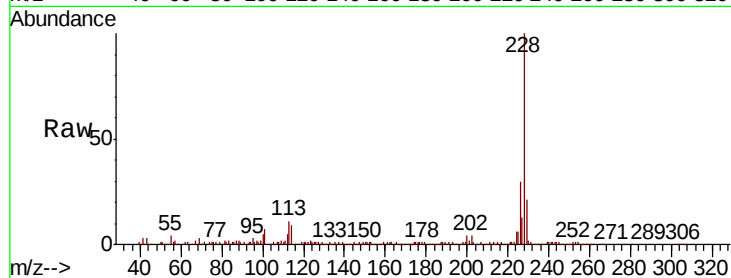
Tot Ion:228 Resp: 156934

Ion Ratio Lower Upper

228 100

226 29.9 24.7 37.1

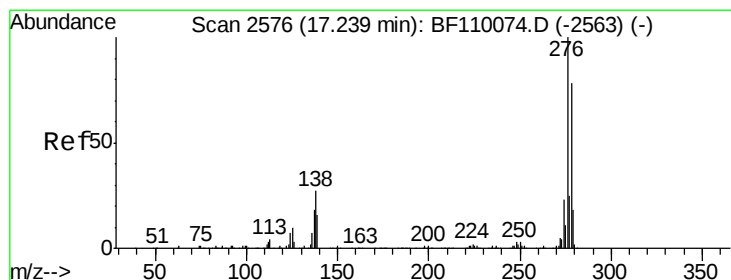
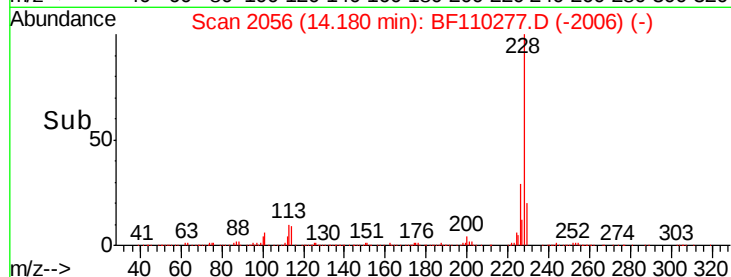
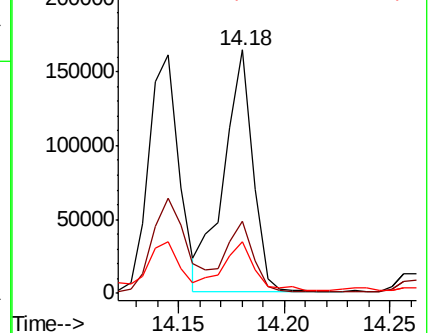
229 21.4 15.9 23.9



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.960 ng

RT: 17.26 min Scan# 2579

Delta R.T. -0.01 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

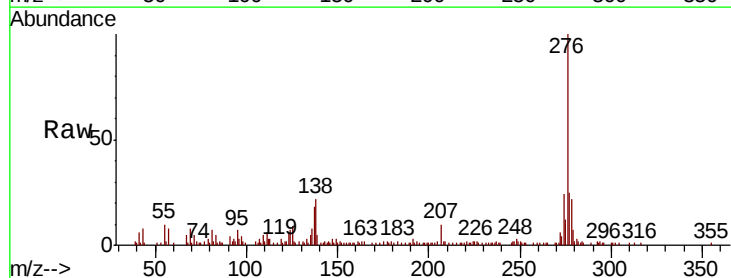
Tgt Ion:276 Resp: 74792

Ion Ratio Lower Upper

276 100

138 22.4 18.5 27.7

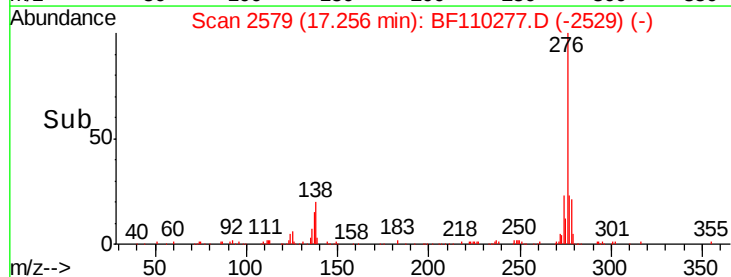
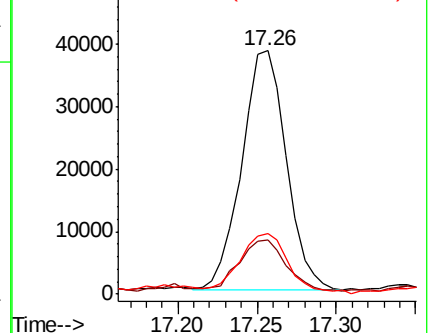
277 28.4 20.0 30.0

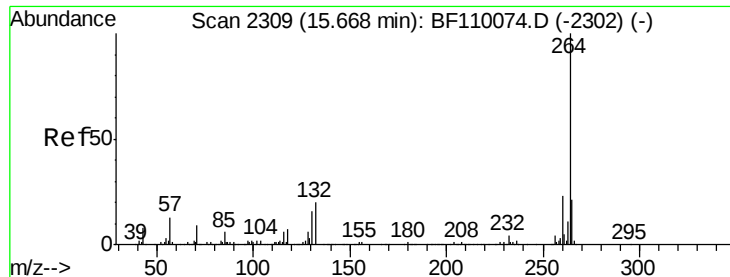


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2312

Delta R.T. 0.00 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

Instrument :

BNA_F

ClientSampleId :

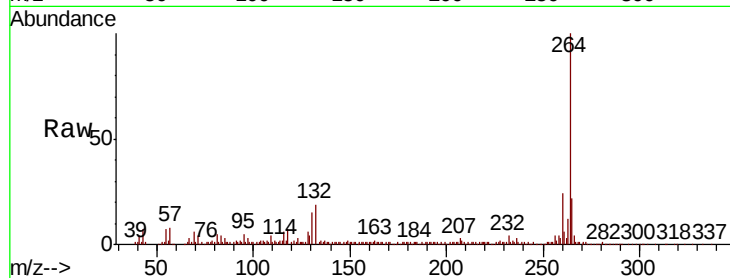
Tot Ion:264 Resp: 162474

Ion Ratio Lower Upper

264 100

260 23.7 18.7 28.1

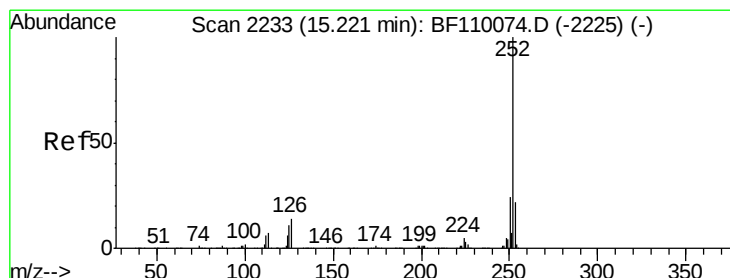
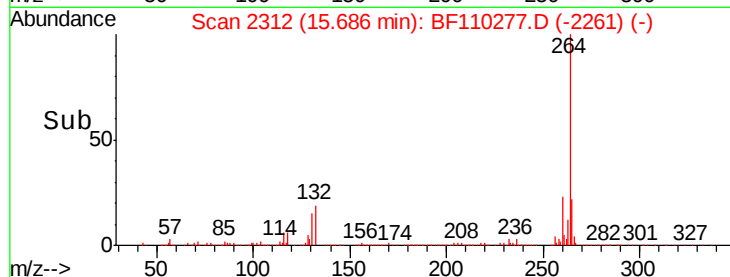
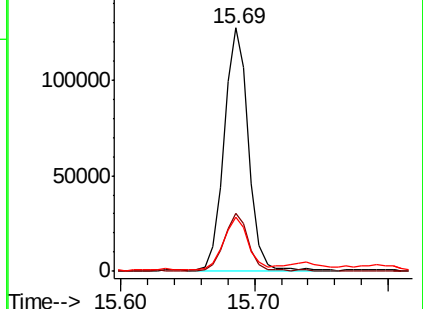
265 22.5 16.7 25.1



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



#88

Benzo(b)fluoranthene

Concen: 23.999 ng

RT: 15.23 min Scan# 2234

Delta R.T. 0.00 min

Lab File: BF110277.D

Acq: 29 Oct 2018 22:12

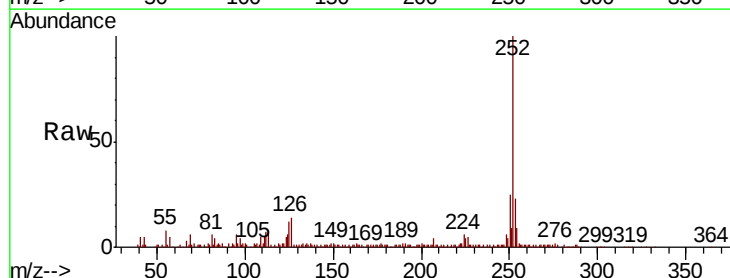
Tgt Ion:252 Resp: 225167

Ion Ratio Lower Upper

252 100

253 23.3 17.2 25.8

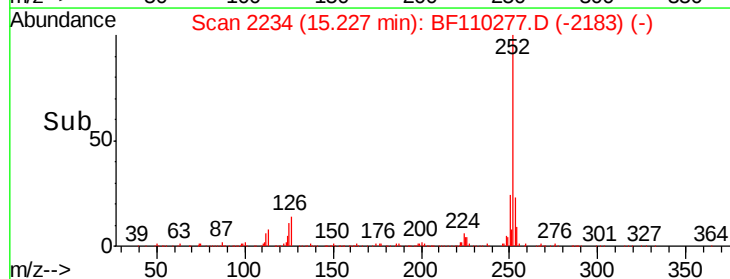
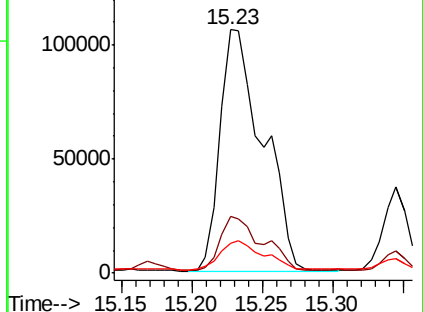
125 12.5 8.2 12.4#

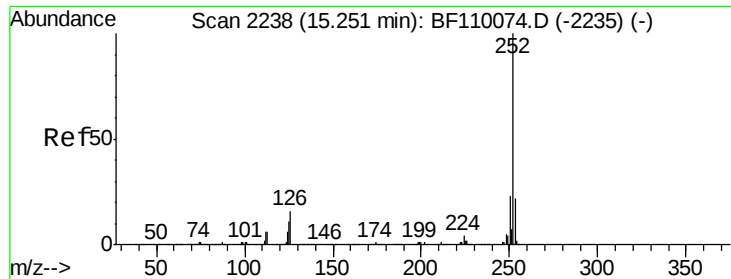


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

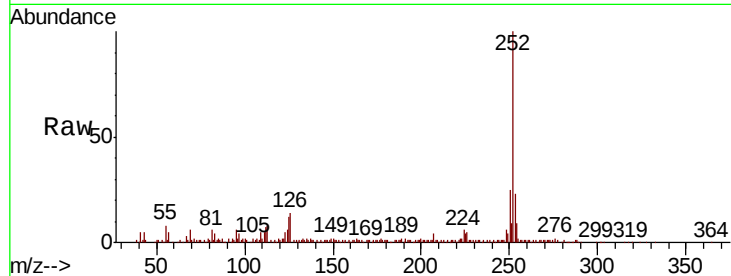




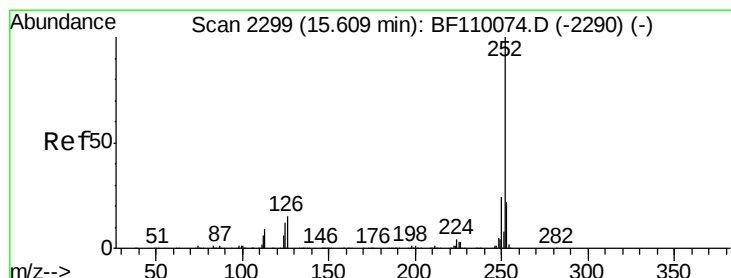
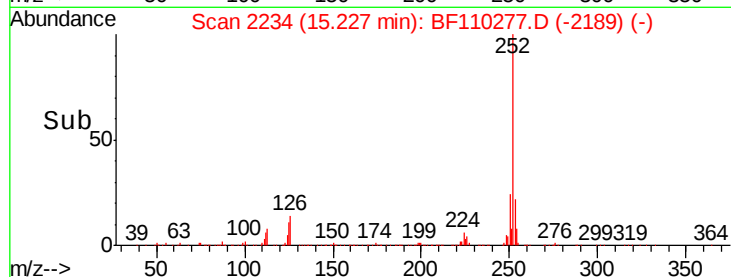
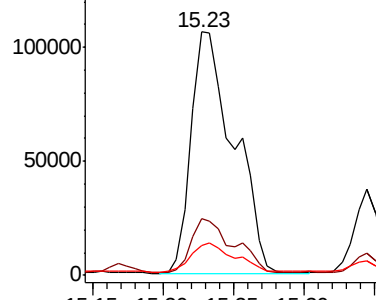
#89
Benzo(k)fluoranthene
Concen: 24.412 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.04 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	12.5	7.4	11.0

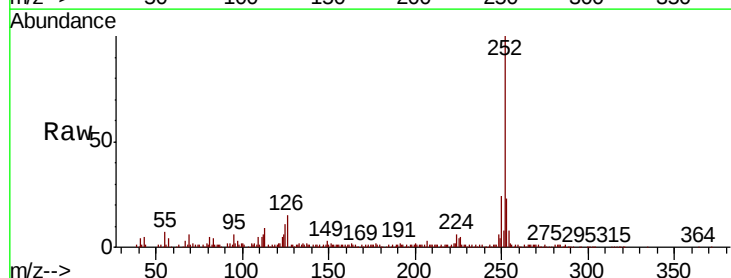


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

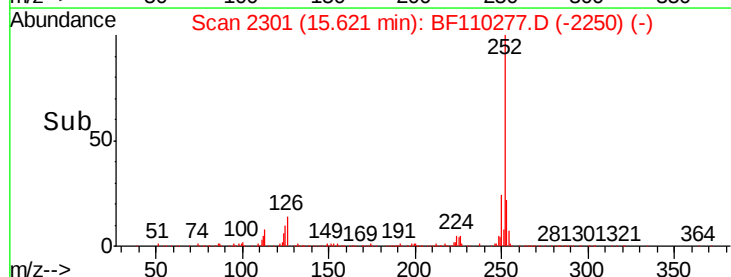
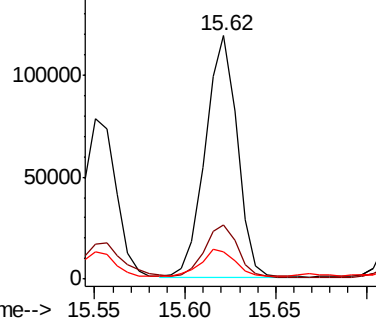


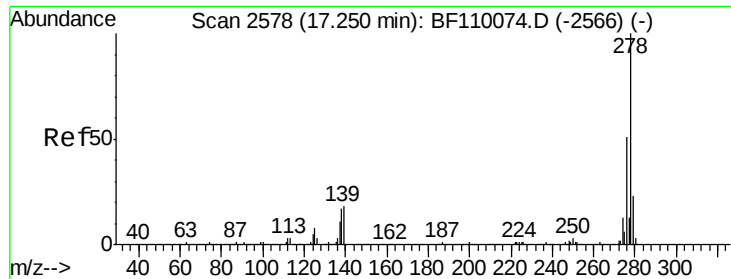
#90
Benzo(a)pyrene
Concen: 16.825 ng
RT: 15.62 min Scan# 2301
Delta R.T. 0.00 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	11.4	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

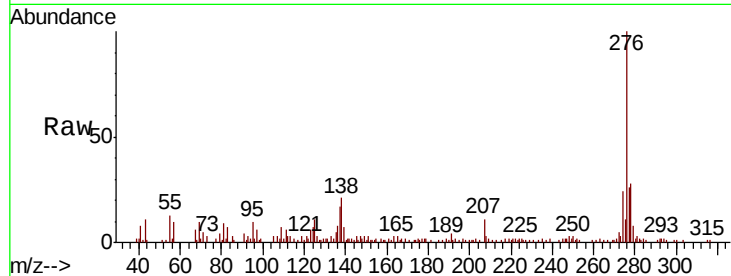




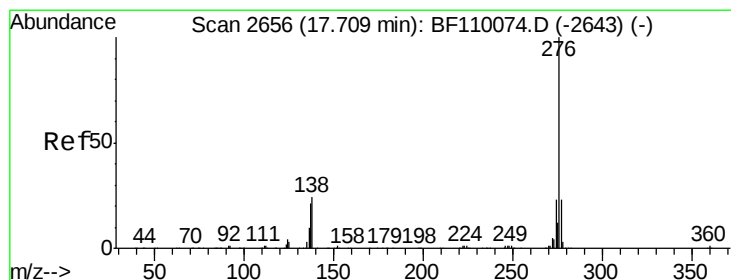
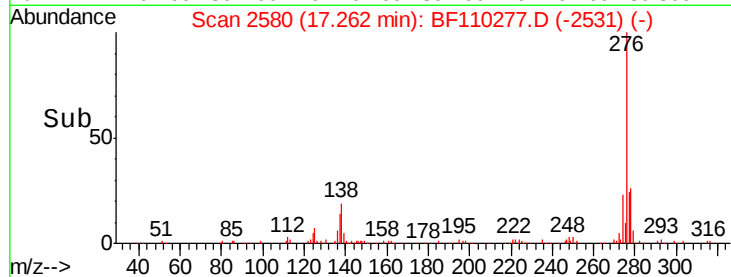
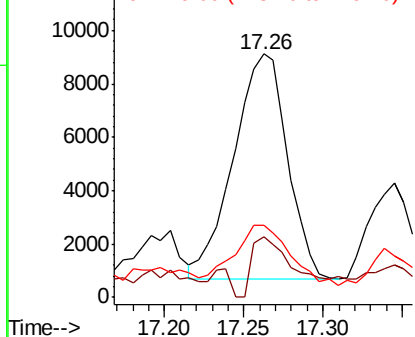
#91
Dibenzo(a,h)anthracene
Concen: 2.663 ng
RT: 17.26 min Scan# 2580
Delta R.T. -0.01 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 19837
Ion Ratio Lower Upper
278 100
139 25.1 12.7 19.1#
279 29.8 19.0 28.4#

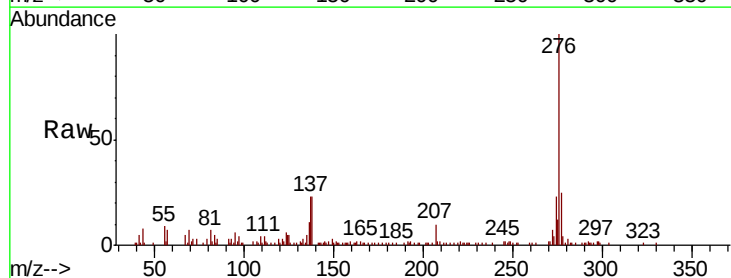


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 11.847 ng
RT: 17.73 min Scan# 2660
Delta R.T. -0.01 min
Lab File: BF110277.D
Acq: 29 Oct 2018 22:12

Tgt Ion:276 Resp: 86961
Ion Ratio Lower Upper
276 100
277 25.3 18.8 28.2
138 23.1 16.0 24.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

