

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030119\
 Data File : BF112810.D
 Acq On : 1 Mar 2019 19:59
 Operator : JU/SJ
 Sample : K1675-13
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Z-3-2-A

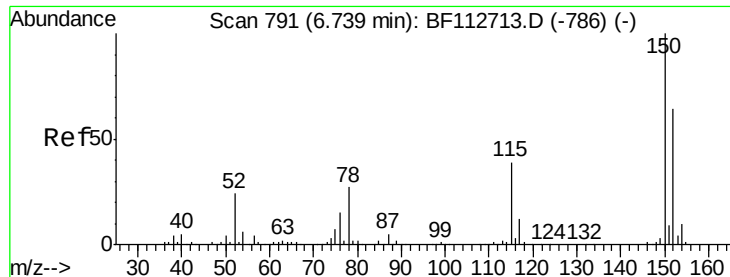
Quant Time: Mar 01 21:59:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	180921	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	660004	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	276326	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	475769	20.00	ng	0.00
76) Chrysene-d12	13.87	240	431191	20.00	ng	0.00
87) Perylene-d12	15.29	264	340200	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	1088853	93.62	ng	0.01
7) Phenol-d6	6.38	99	1382439	94.62	ng	0.01
23) Nitrobenzene-d5	7.30	82	825501	74.84	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	315471	107.54	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	1399296	83.51	ng	0.00
79) Terphenyl-d14	12.83	244	1232131	55.39	ng	0.00

Target Compounds				Qvalue		
10) Phenol	6.39	94	59984	3.518	ng	98
19) n-Nitroso-di-n-propylamine	7.30	70	108976	11.777	ng	# 78
25) Isophorone	7.30	82	816549	34.363	ng	# 66
50) Dimethylphthalate	9.49	163	85401	4.191	ng	97
51) 2,6-Dinitrotoluene	9.77	165	35841	8.447	ng	# 18
57) 2,4-Dinitrotoluene	9.77	165	35841	6.796	ng	# 17
65) 4,6-Dinitro-2-methylphenol	10.56	198	603	4.892	ng	# 1
67) 4-Bromophenyl-phenylether	10.56	248	18005	3.593	ng	# 1
71) Phenanthrene	11.27	178	369440	15.607	ng	98
72) Anthracene	11.32	178	66444	2.681	ng	97
75) Fluoranthene	12.46	202	665311	26.234	ng	96
78) Pyrene	12.68	202	593543	16.328	ng	98
81) Benzo(a)anthracene	13.86	228	329311	11.019	ng	99
83) Chrysene	13.90	228	312815	10.686	ng	97
86) Indeno(1,2,3-cd)pyrene	16.64	276	114457	4.586	ng	# 92
88) Benzo(b)fluoranthene	14.89	252	436372	19.830	ng	97
89) Benzo(k)fluoranthene	14.89	252	436372	21.893	ng	98
90) Benzo(a)pyrene	15.23	252	196122	10.076	ng	98
92) Benzo(g,h,i)perylene	17.05	276	102804	6.164	ng	95

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

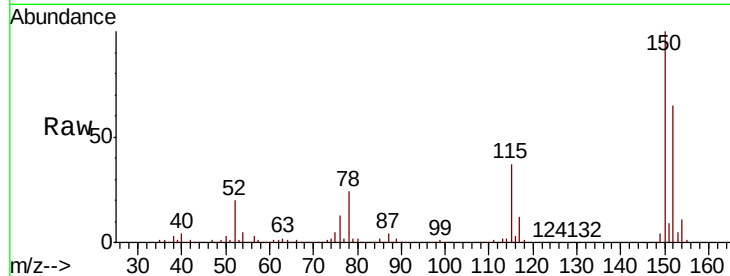


#1

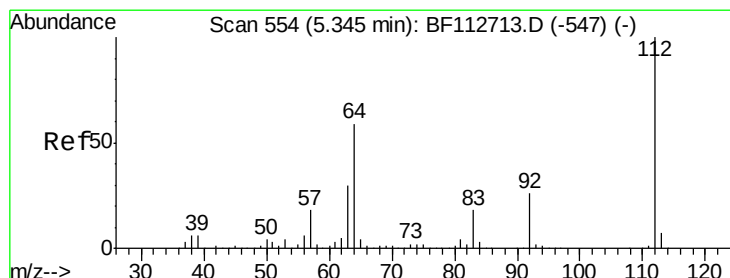
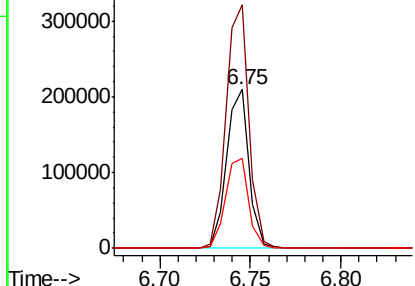
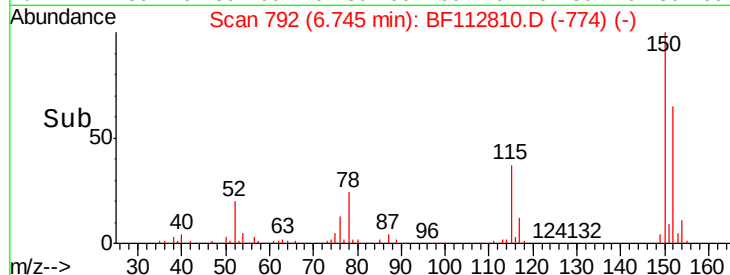
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.75 min Scan# 792
 Delta R.T. 0.01 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Instrument :
 BNA_F
 ClientSampleId :
 Z-3-2-A

Tgt Ion:152 Resp: 180921
 Ion Ratio Lower Upper
 152 100
 150 153.1 124.2 186.2
 115 56.8 48.2 72.4



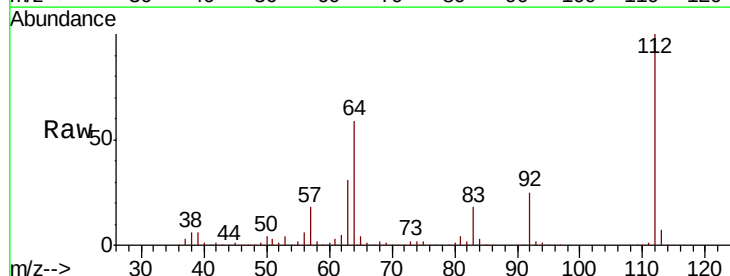
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



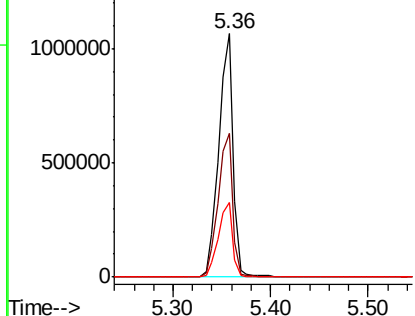
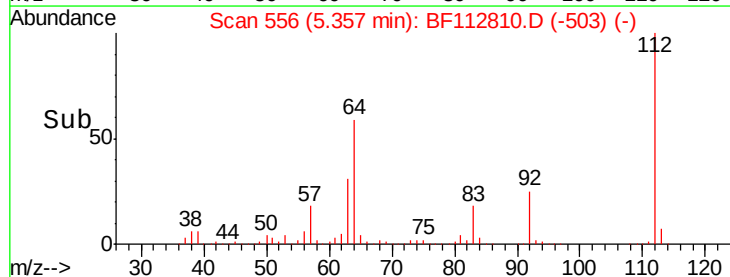
#5

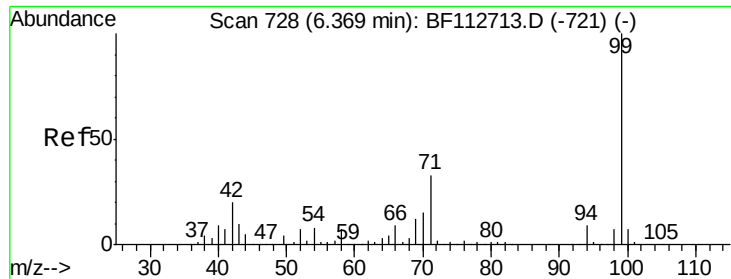
2-Fluorophenol
 Concen: 93.619 ng
 RT: 5.36 min Scan# 556
 Delta R.T. 0.01 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Tgt Ion:112 Resp: 1088853
 Ion Ratio Lower Upper
 112 100
 64 59.2 47.6 71.4
 63 30.5 24.4 36.6



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: 94.622 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.01 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

Instrument :

BNA_F

ClientSampleId :

Z-3-2-A

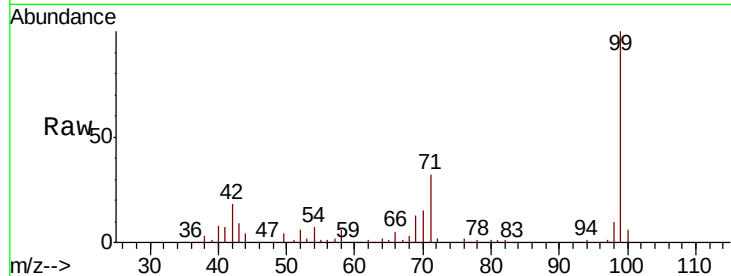
Tgt Ion: 99 Resp: 1382439

Ion Ratio Lower Upper

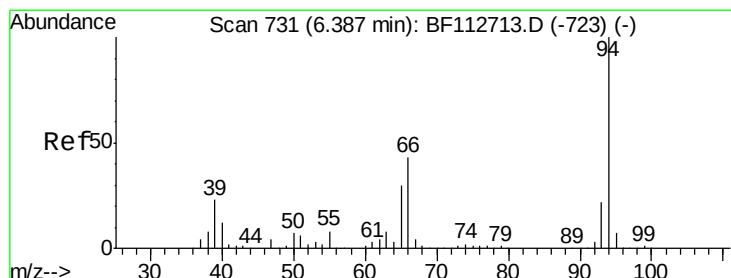
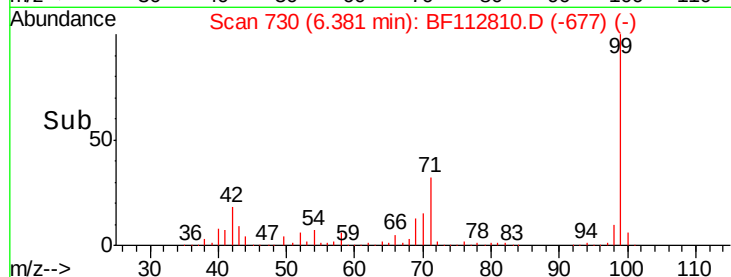
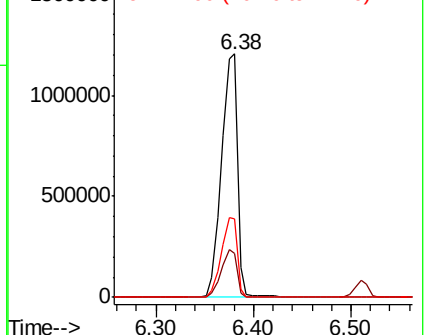
99 100

42 18.2 16.3 24.5

71 32.2 26.2 39.4



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



#10

Phenol

Concen: 3.518 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.00 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

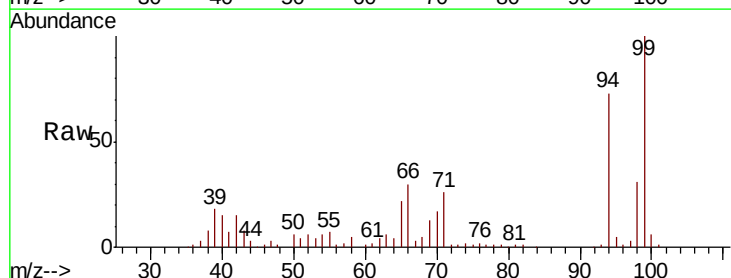
Tgt Ion: 94 Resp: 59984

Ion Ratio Lower Upper

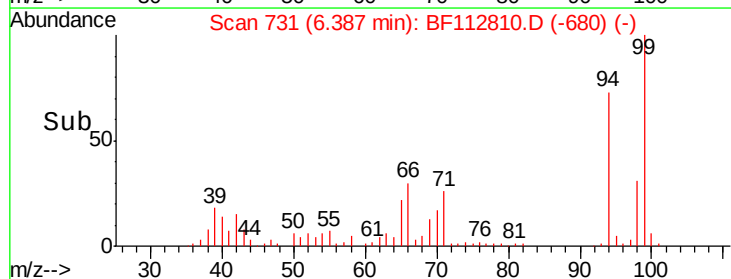
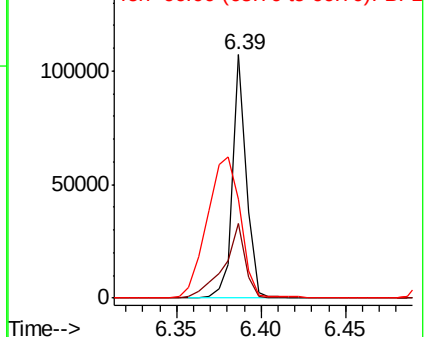
94 100

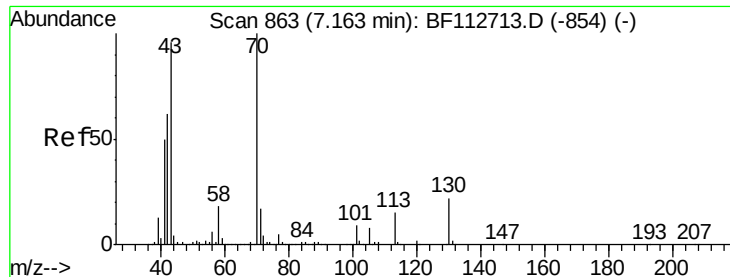
65 30.4 10.5 50.5

66 40.8 22.6 62.6



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

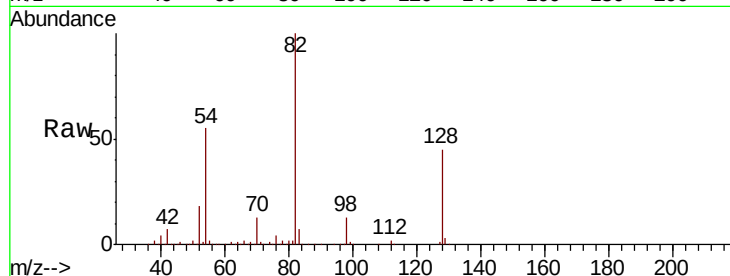




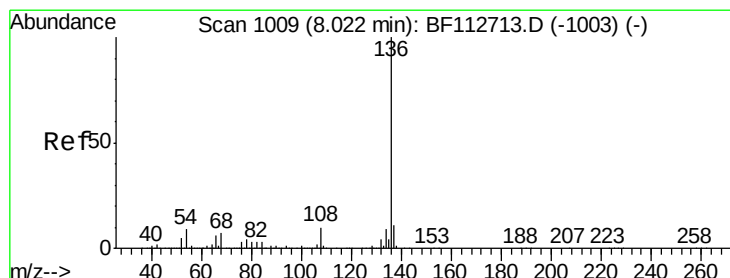
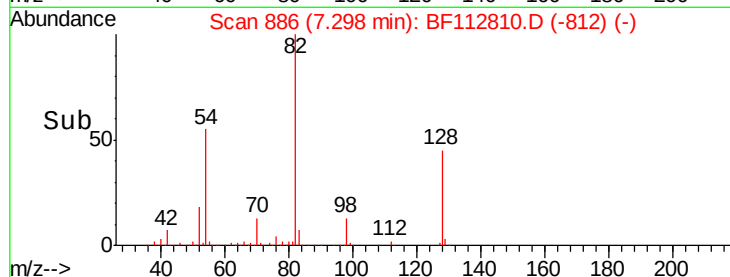
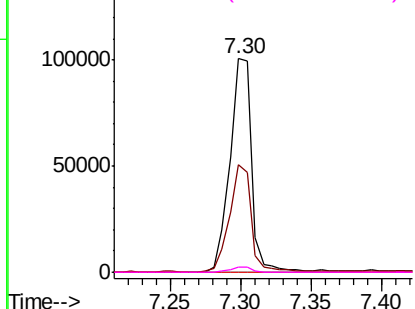
#19
n-Nitroso-di-n-propylamine
Concen: 11.777 ng
RT: 7.30 min Scan# 886
Delta R.T. 0.14 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Instrument :
BNA_F
ClientSampleId :
Z-3-2-A

Tgt Ion: 70 Resp: 108976
Ion Ratio Lower Upper
70 100
42 50.6 49.9 74.9
101 0.0 7.4 11.2#
130 2.3 17.4 26.2#

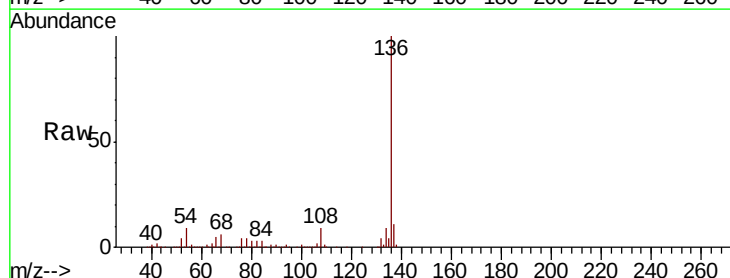


Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E

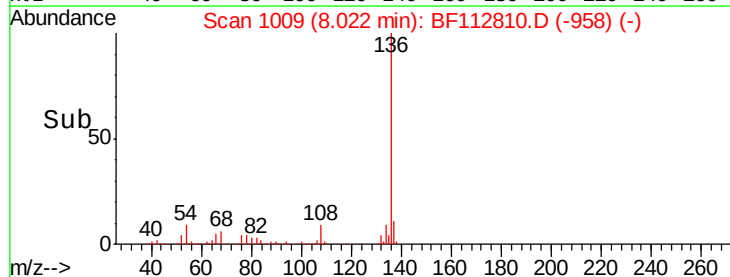
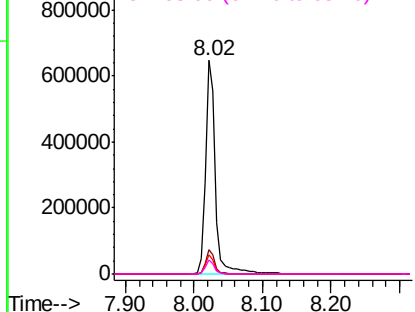


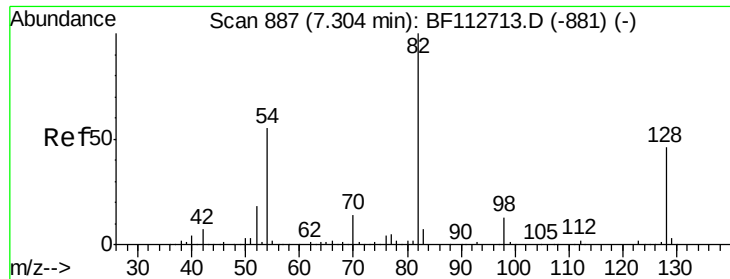
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Tgt Ion: 136 Resp: 660004
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.9 7.3 10.9
68 6.4 5.4 8.2



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

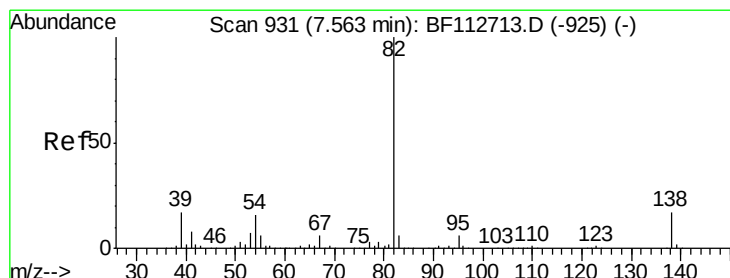
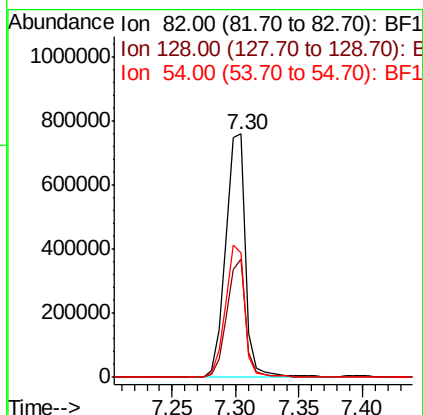
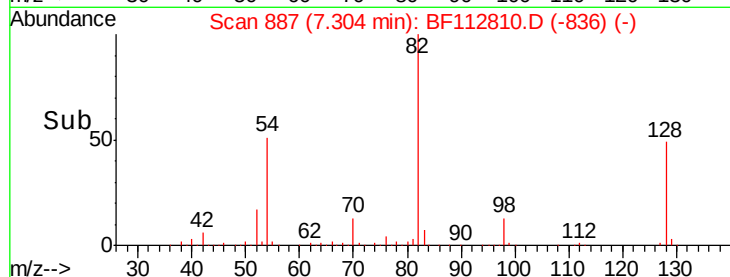
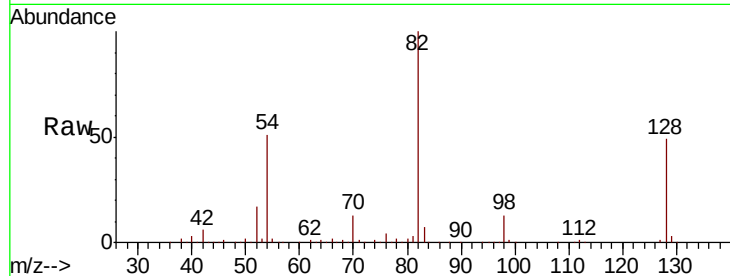




#23
Nitrobenzene-d5
Concen: 74.842 ng
RT: 7.30 min Scan# 887
Delta R.T. 0.00 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

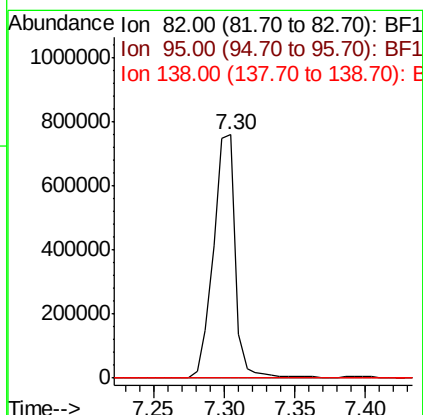
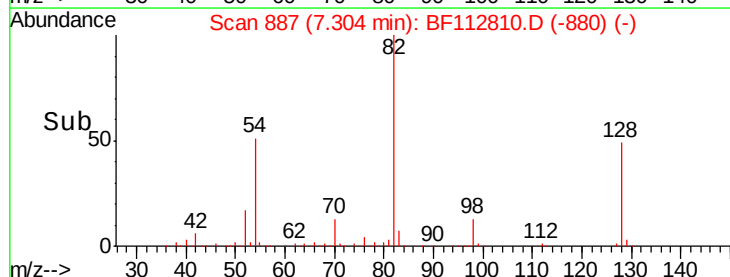
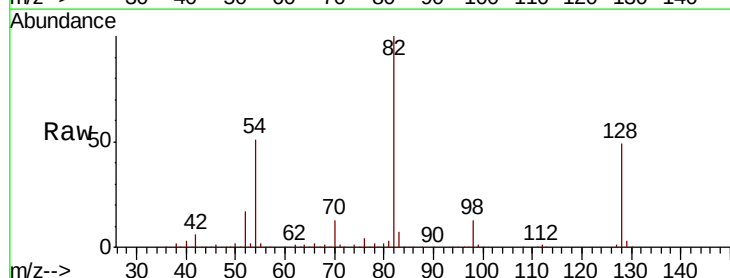
Instrument :
BNA_F
ClientSampleId :
Z-3-2-A

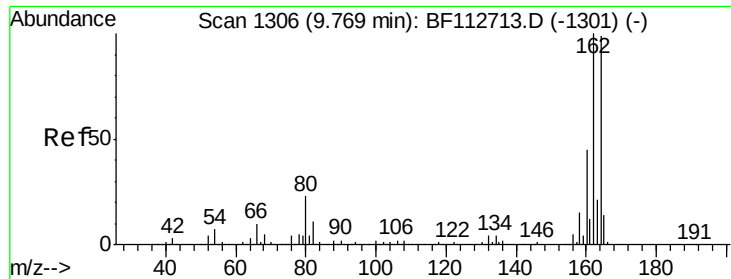
Tgt Ion: 82 Resp: 825501
Ion Ratio Lower Upper
82 100
128 48.6 36.3 54.5
54 51.3 43.7 65.5



#25
Isophorone
Concen: 34.363 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.26 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Tgt Ion: 82 Resp: 816549
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 13.8 20.8#

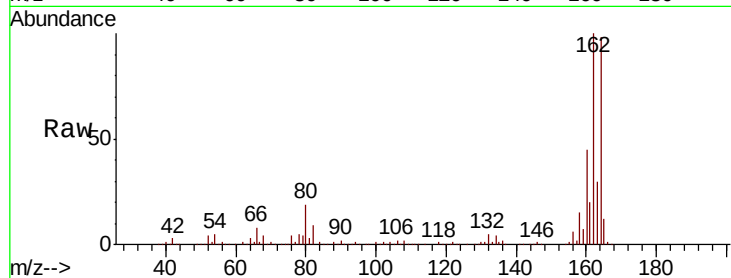




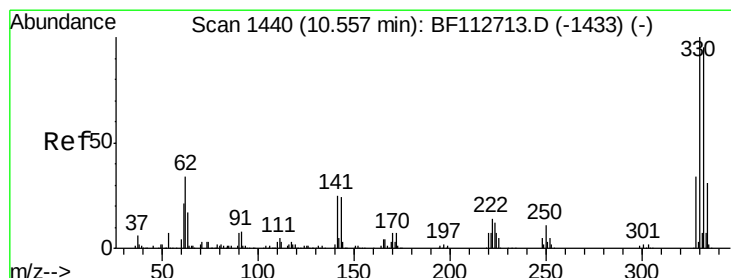
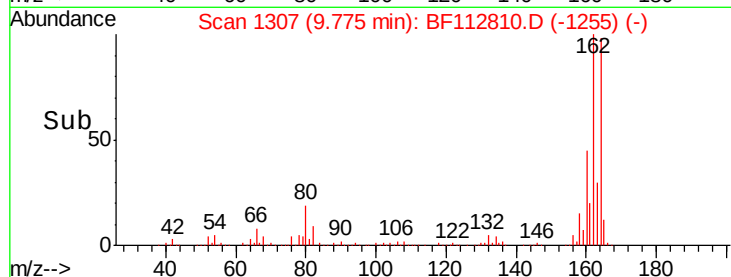
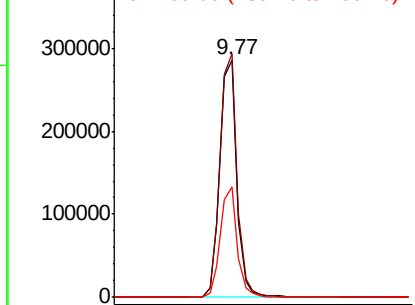
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1307
Delta R.T. 0.01 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Instrument :
BNA_F
ClientSampleId :
Z-3-2-A

Tgt Ion:	164	Resp:	276326
Ion	Ratio	Lower	Upper
164	100		
162	102.4	80.6	120.8
160	46.5	36.0	54.0

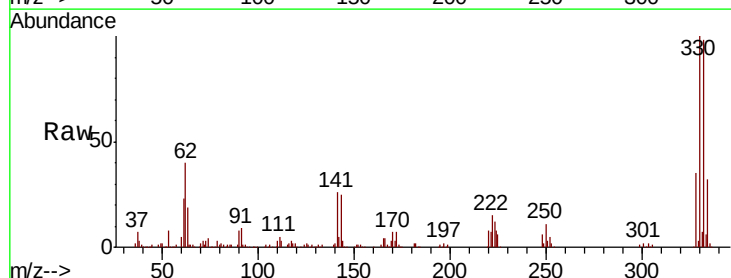


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

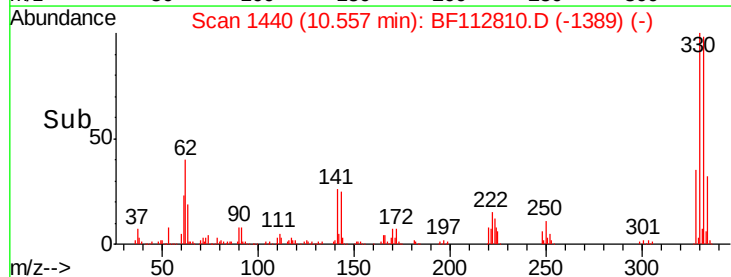
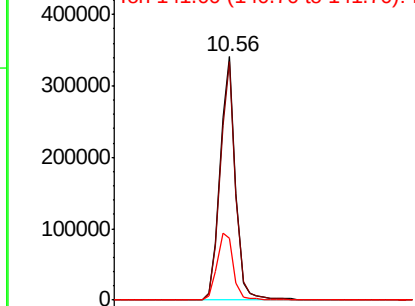


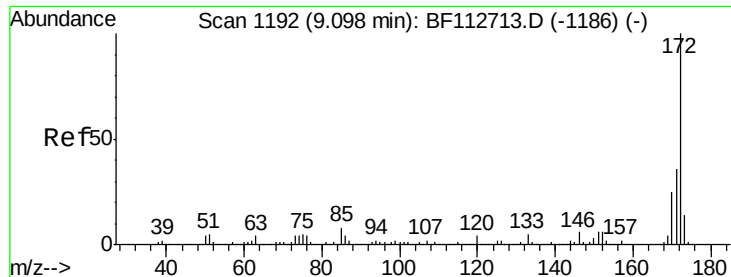
#42
2,4,6-Tribromophenol
Concen: 107.539 ng
RT: 10.56 min Scan# 1440
Delta R.T. 0.00 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Tgt Ion:	330	Resp:	315471
Ion	Ratio	Lower	Upper
330	100		
332	97.2	76.2	114.4
141	29.9	27.0	40.6



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

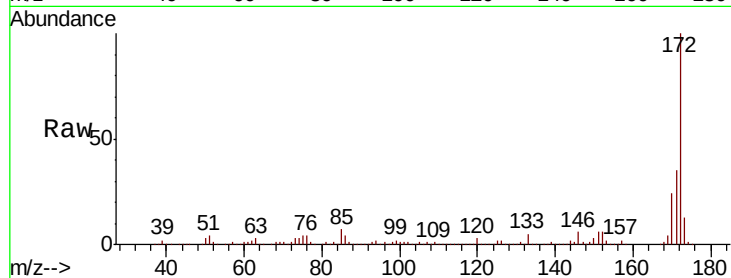




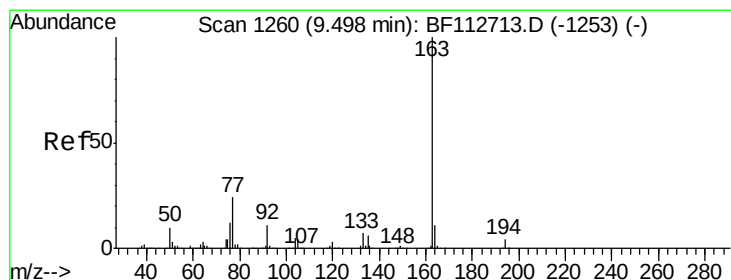
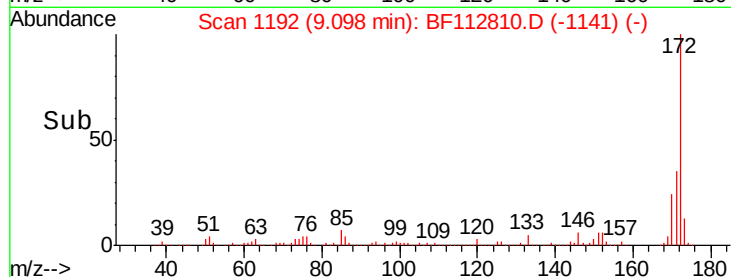
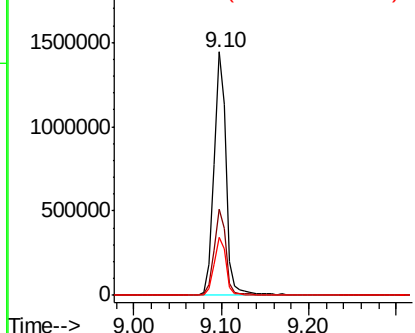
#45
 2-Fluorobiphenyl
 Concen: 83.514 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. 0.00 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Instrument :
 BNA_F
 ClientSampleId :
 Z-3-2-A

Tgt Ion:172 Resp: 1399296
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.0 43.4
 170 23.9 20.0 30.0

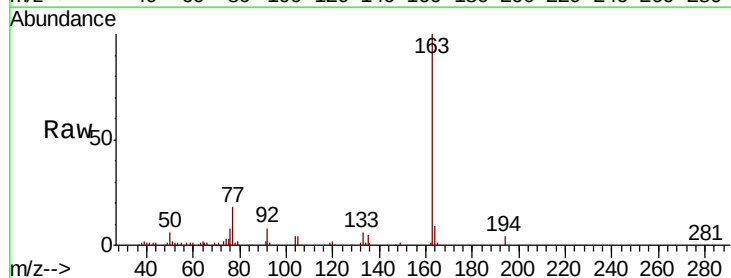


Abundance Ion 172.00 (171.70 to 172.70): E
 2000000 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

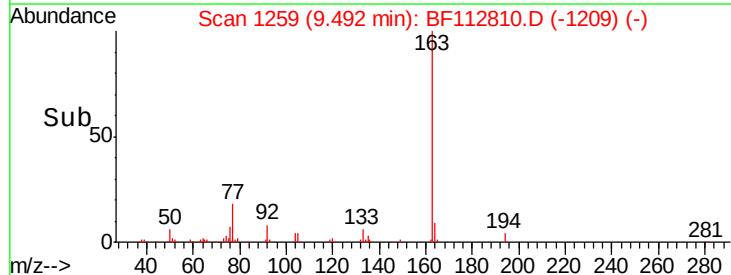
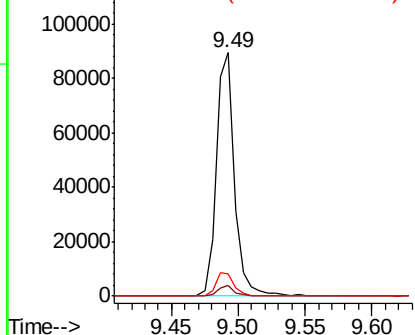


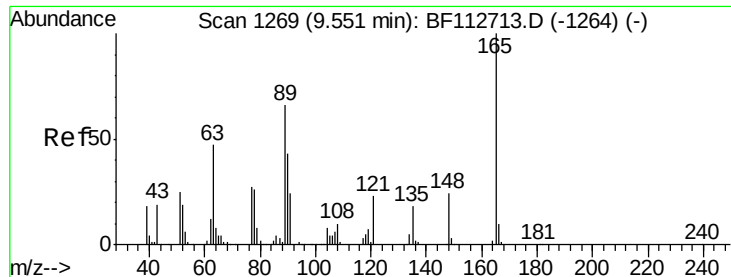
#50
 Dimethylphthalate
 Concen: 4.191 ng
 RT: 9.49 min Scan# 1259
 Delta R.T. -0.01 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Tgt Ion:163 Resp: 85401
 Ion Ratio Lower Upper
 163 100
 194 4.2 3.0 4.4
 164 9.3 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
 120000 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

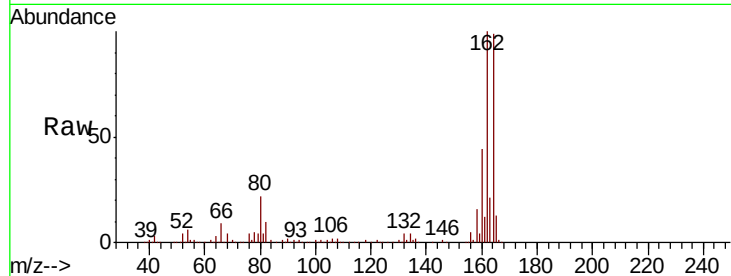




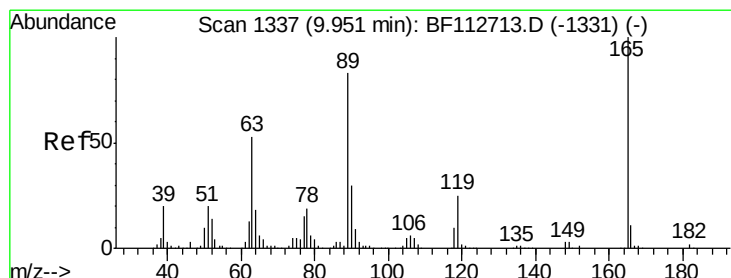
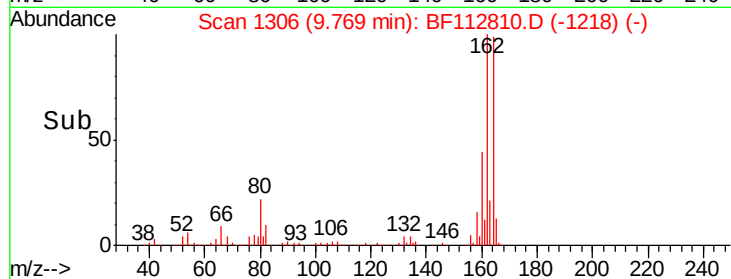
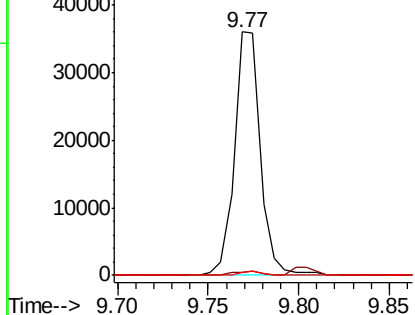
#51
 2,6-Dinitrotoluene
 Concen: 8.447 ng
 RT: 9.77 min Scan# 1306
 Delta R.T. 0.22 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Instrument :
 BNA_F
 ClientSampleId :
 Z-3-2-A

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	54.1	81.1#
89	1.1	52.8	79.2#

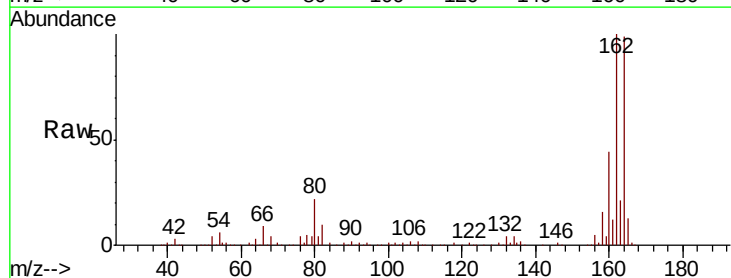


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

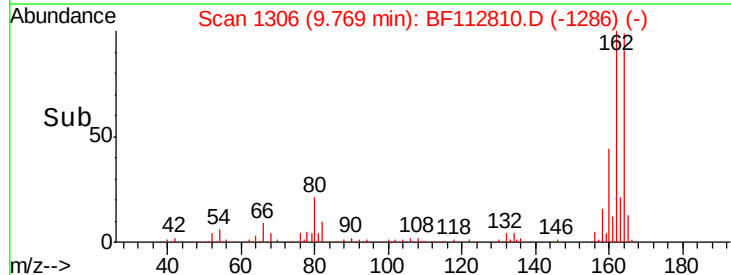
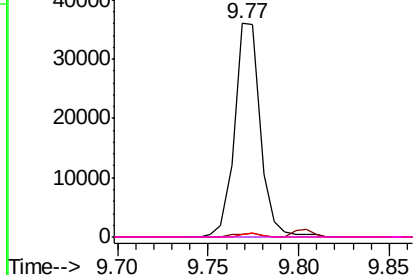


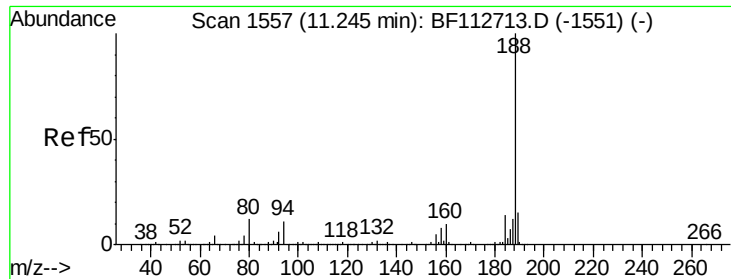
#57
 2,4-Dinitrotoluene
 Concen: 6.796 ng
 RT: 9.77 min Scan# 1306
 Delta R.T. -0.18 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	42.2	63.2#
89	1.1	66.2	99.4#
182	0.0	1.8	2.6#



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
 Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. 0.01 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

Instrument :

BNA_F

ClientSampleId :

Z-3-2-A

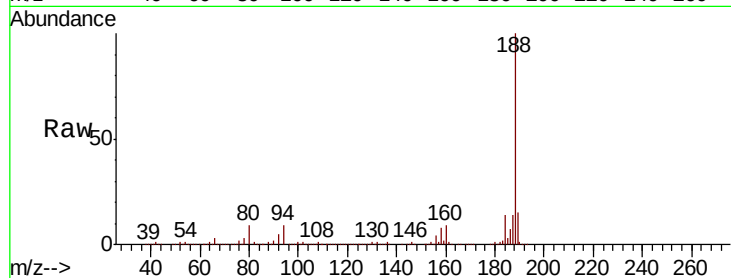
Tgt Ion:188 Resp: 475769

Ion Ratio Lower Upper

188 100

94 8.9 9.0 13.4#

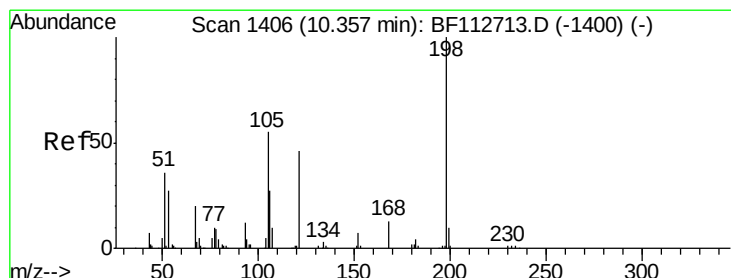
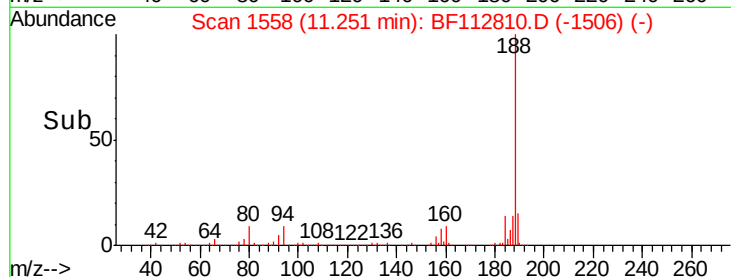
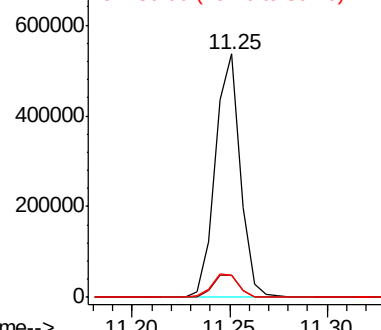
80 9.1 9.2 13.8#



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



#65

4,6-Dinitro-2-methylphenol

Concen: 4.892 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.20 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

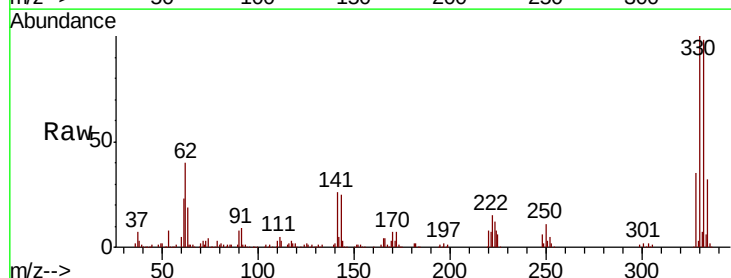
Tgt Ion:198 Resp: 603

Ion Ratio Lower Upper

198 100

51 174.4 43.8 83.8#

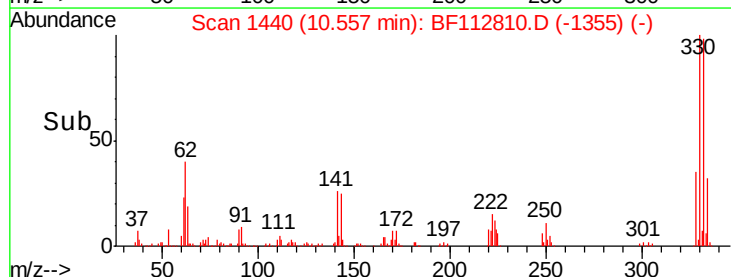
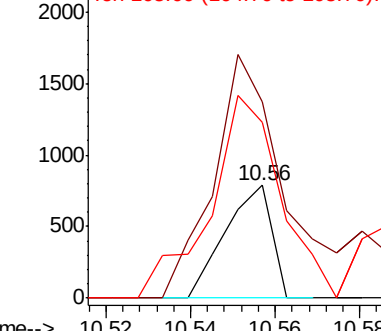
105 155.8 36.5 76.5#

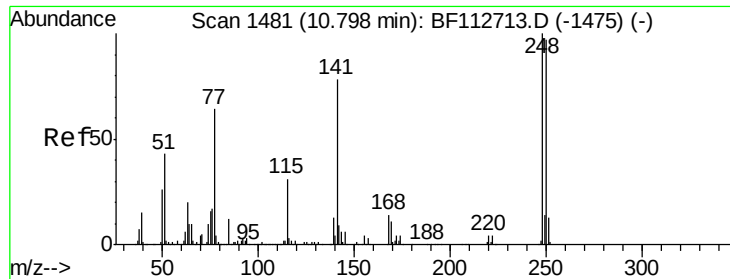


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

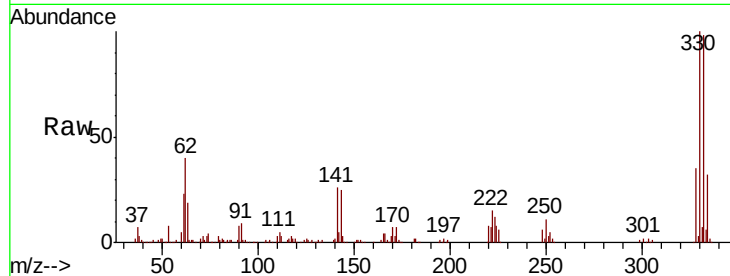




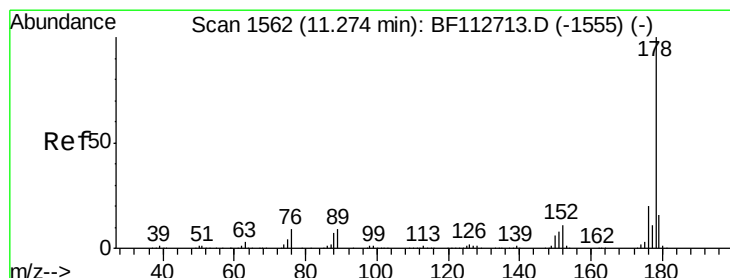
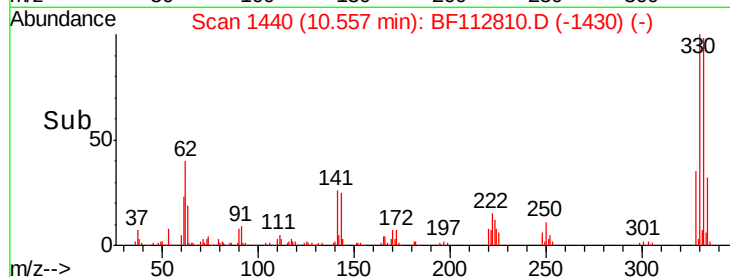
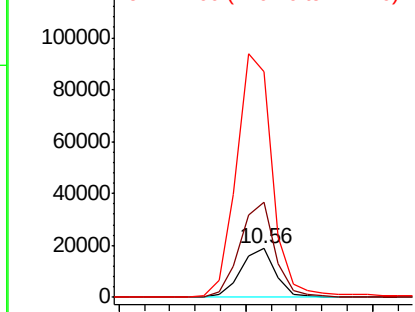
#67
 4-Bromophenyl-phenylether
 Concen: 3.593 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.24 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Instrument :
 BNA_F
 ClientSampleId :
 Z-3-2-A

Tgt Ion: 248 Resp: 18005
 Ion Ratio Lower Upper
 248 100
 250 196.3 77.5 116.3#
 141 464.4 62.4 93.6#

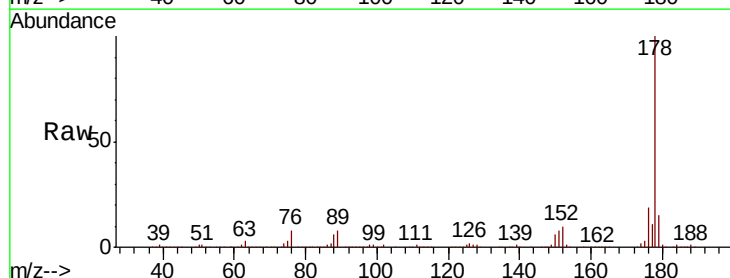


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

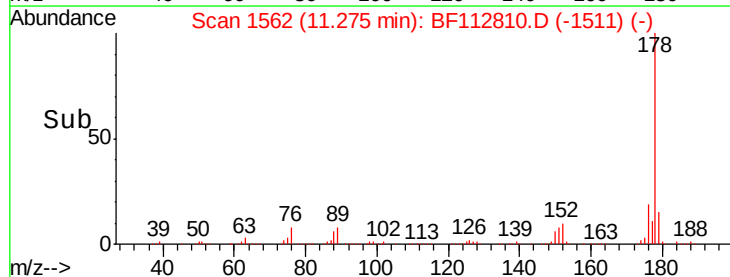
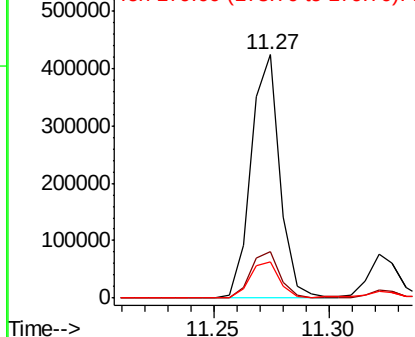


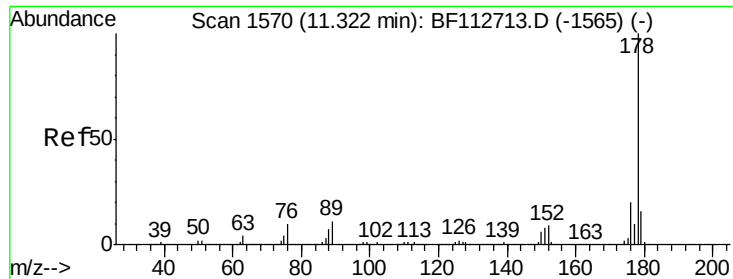
#71
 Phenanthrene
 Concen: 15.607 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Tgt Ion: 178 Resp: 369440
 Ion Ratio Lower Upper
 178 100
 176 19.3 16.3 24.5
 179 14.8 12.7 19.1



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

Anthracene

Concen: 2.681 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

Instrument :

BNA_F

ClientSampleId :

Z-3-2-A

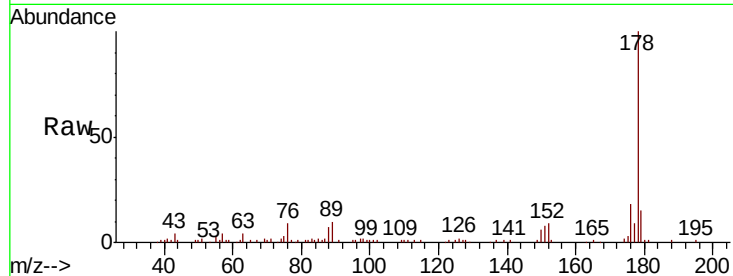
Tgt Ion:178 Resp: 66444

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.6

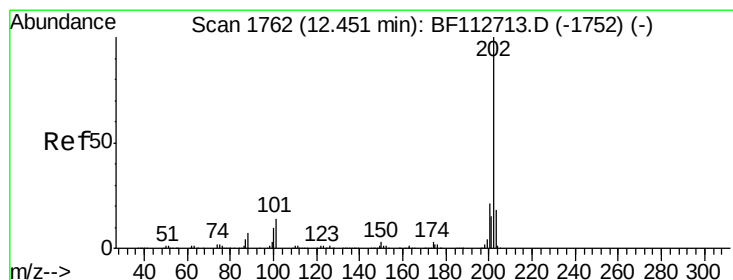
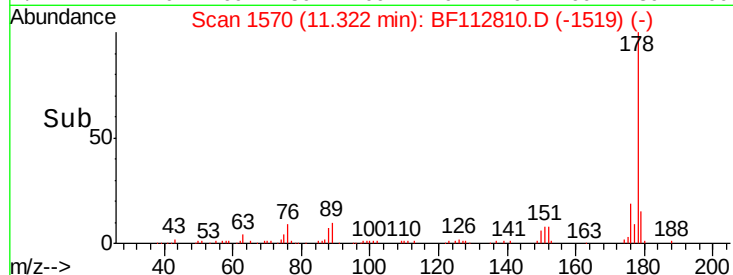
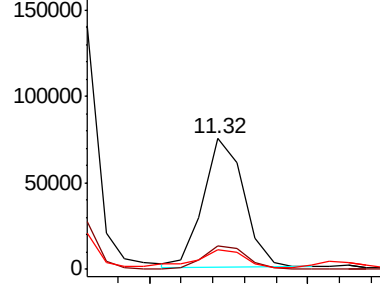
179 15.0 13.0 19.6



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



#75

Fluoranthene

Concen: 26.234 ng

RT: 12.46 min Scan# 1763

Delta R.T. 0.01 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

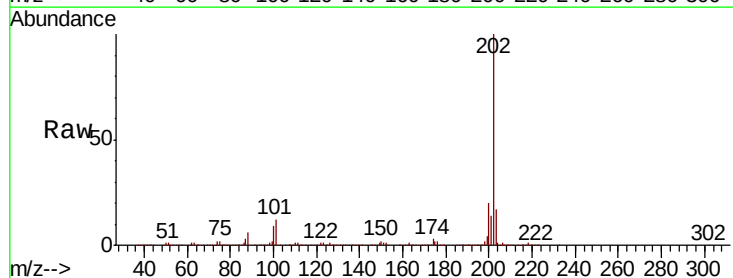
Tgt Ion:202 Resp: 665311

Ion Ratio Lower Upper

202 100

101 11.5 0.0 33.8

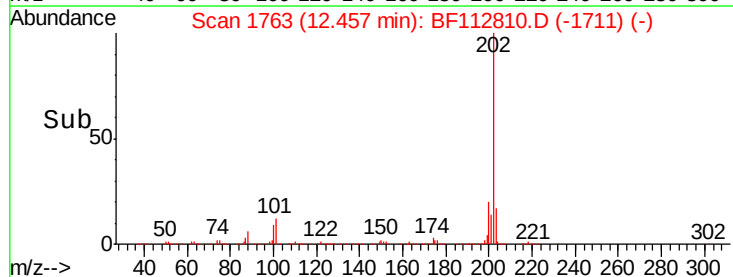
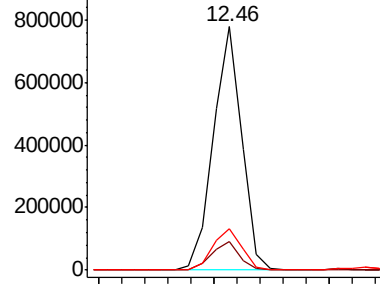
203 17.2 0.0 38.4

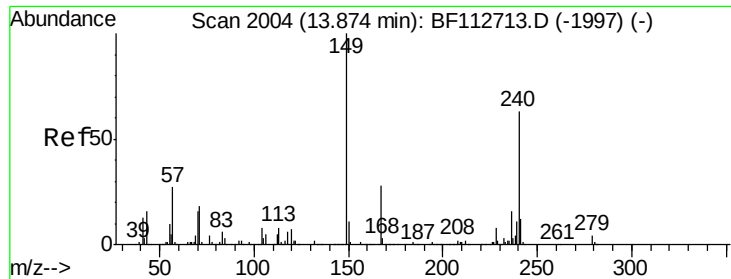


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

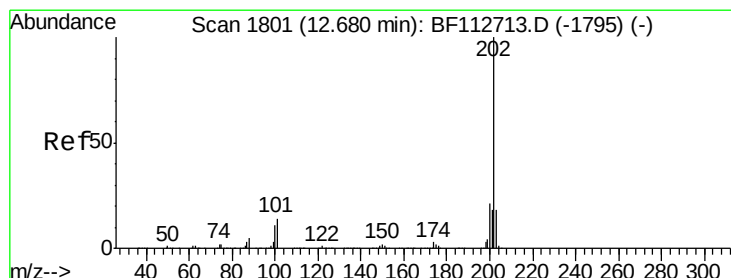
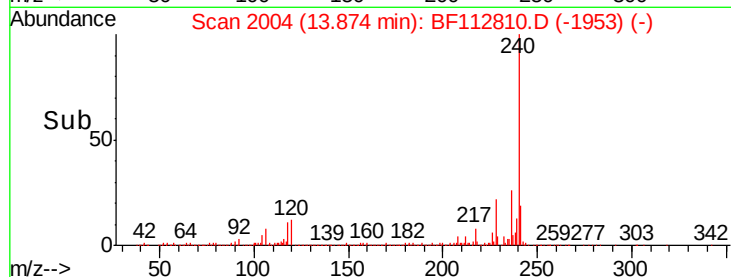
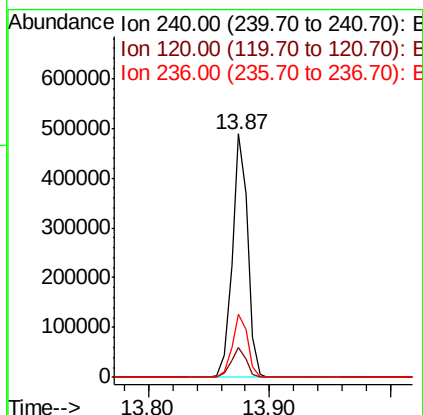
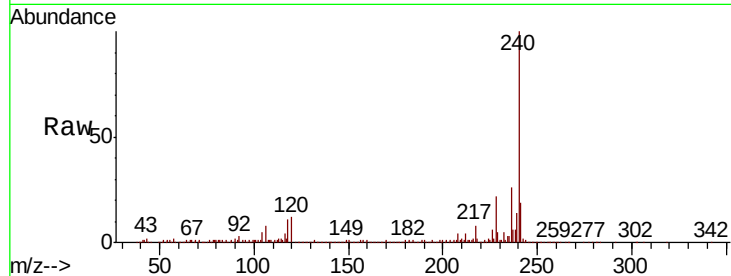




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2004
Delta R.T. 0.00 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

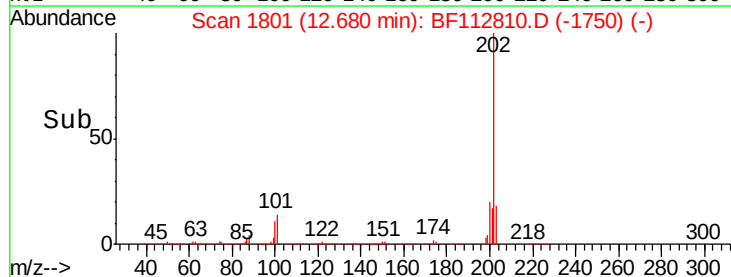
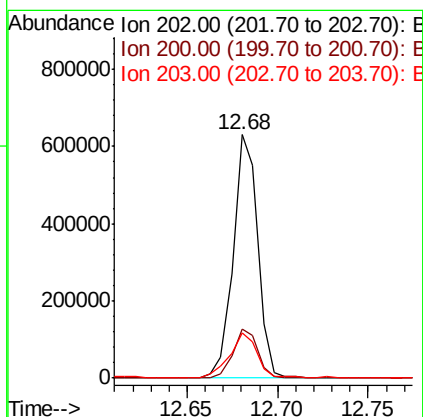
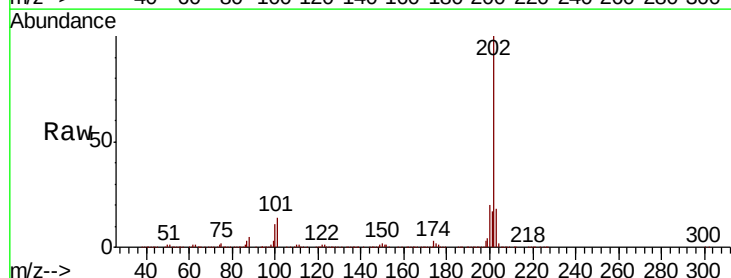
Instrument :
BNA_F
ClientSampleId :
Z-3-2-A

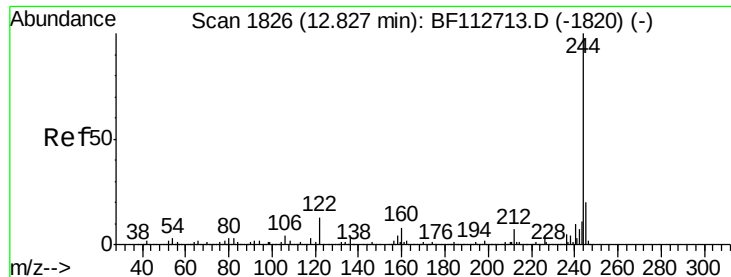
Tgt Ion:240 Resp: 431191
Ion Ratio Lower Upper
240 100
120 12.2 8.9 13.3
236 26.2 20.7 31.1



#78
Pyrene
Concen: 16.328 ng
RT: 12.68 min Scan# 1801
Delta R.T. 0.00 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Tgt Ion:202 Resp: 593543
Ion Ratio Lower Upper
202 100
200 20.0 17.0 25.4
203 18.4 14.4 21.6





#79

Terphenyl-d14

Concen: 55.393 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

Instrument :

BNA_F

ClientSampleId :

Z-3-2-A

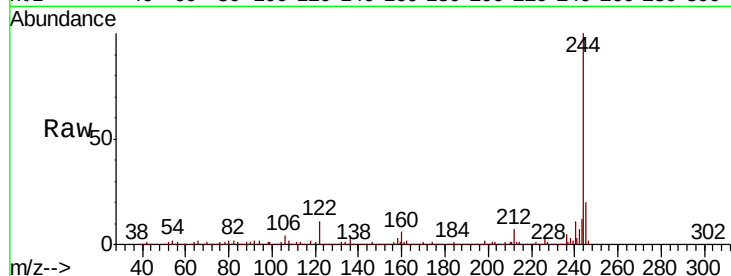
Tgt Ion:244 Resp: 1232131

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

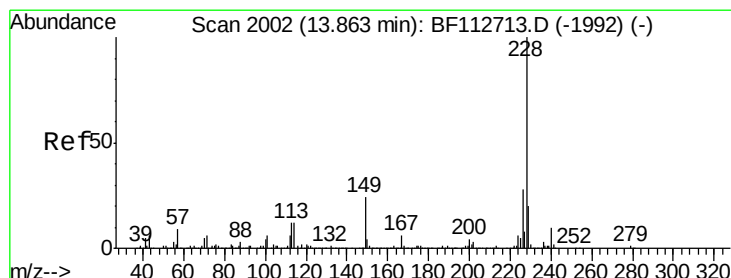
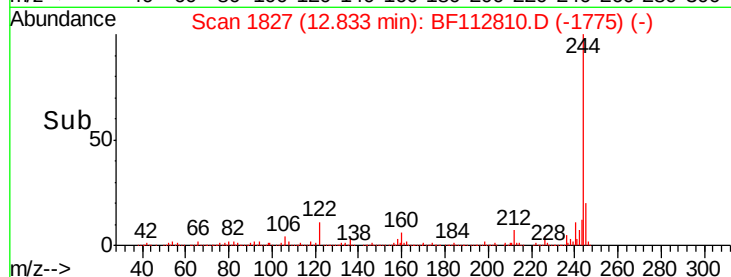
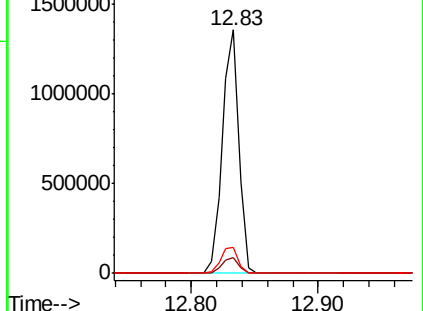
122 10.9 10.5 15.7



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



#81

Benzo(a)anthracene

Concen: 11.019 ng

RT: 13.86 min Scan# 2002

Delta R.T. 0.00 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

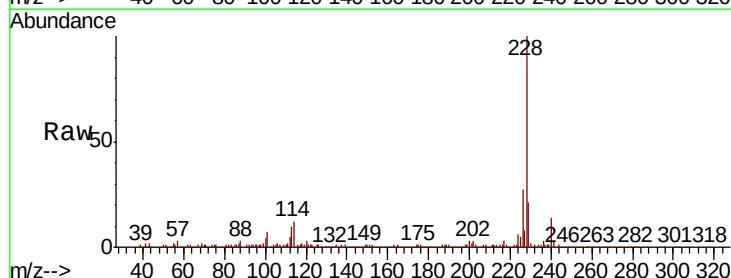
Tgt Ion:228 Resp: 329311

Ion Ratio Lower Upper

228 100

226 27.1 22.2 33.4

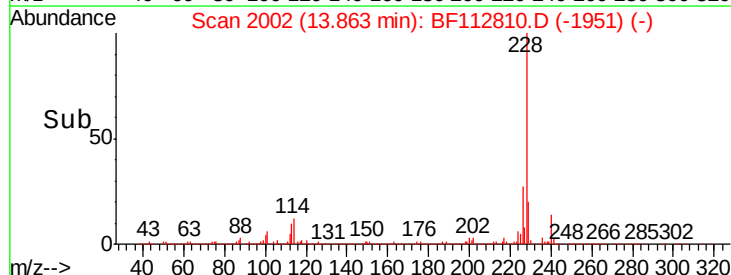
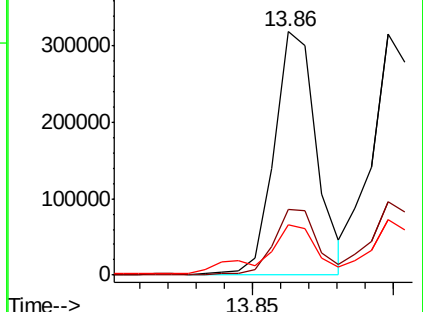
229 20.6 16.0 24.0

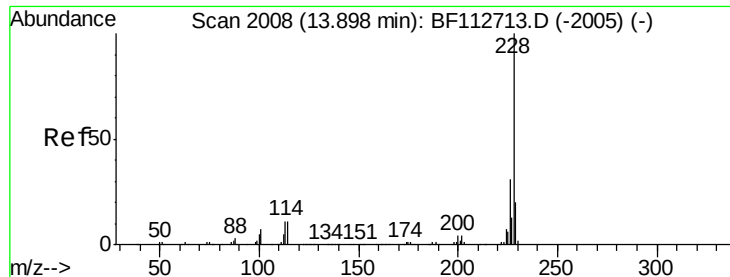


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 10.686 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

Instrument :

BNA_F

ClientSampleId :

Z-3-2-A

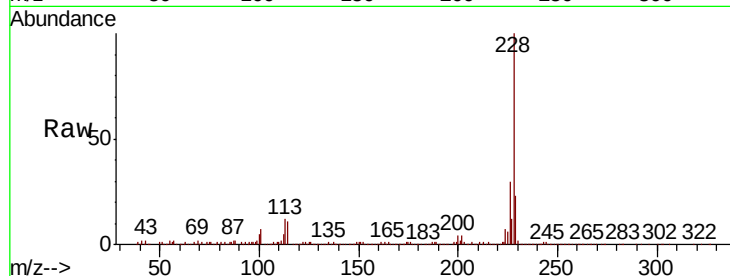
Tgt Ion:228 Resp: 312815

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

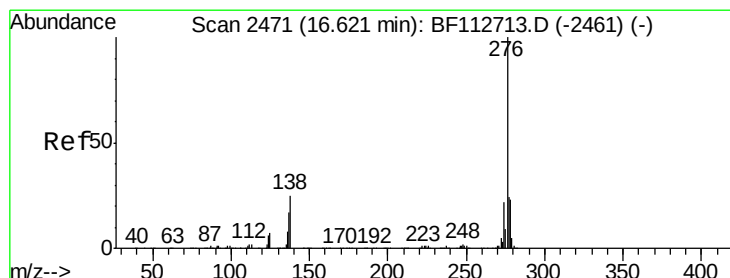
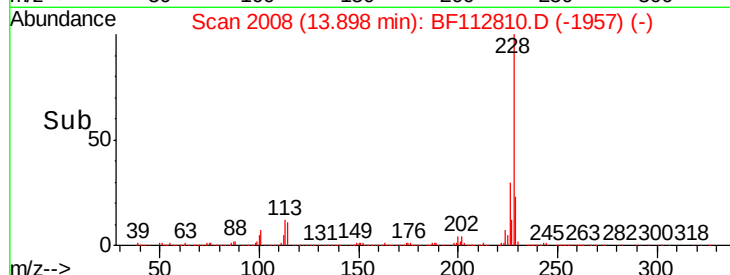
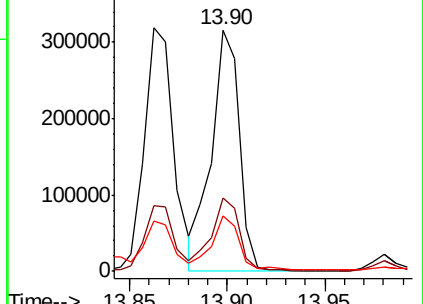
229 22.9 16.3 24.5



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: 4.586 ng

RT: 16.64 min Scan# 2475

Delta R.T. 0.02 min

Lab File: BF112810.D

Acq: 1 Mar 2019 19:59

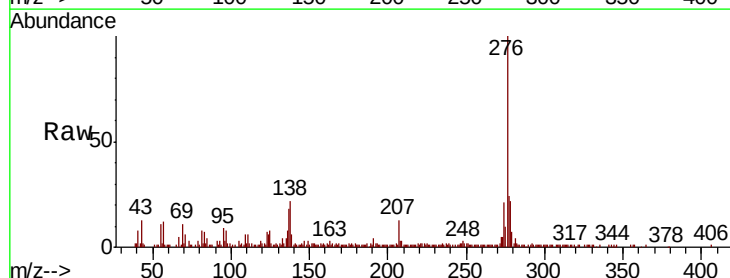
Tgt Ion:276 Resp: 114457

Ion Ratio Lower Upper

276 100

138 21.2 23.2 34.8#

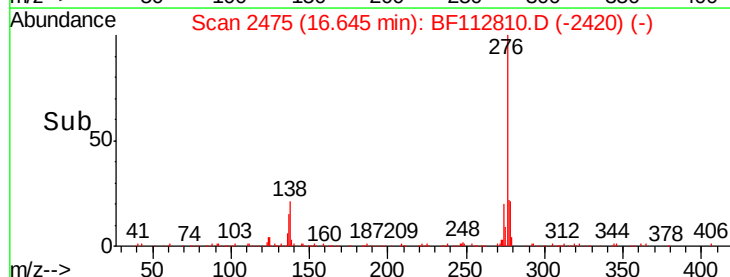
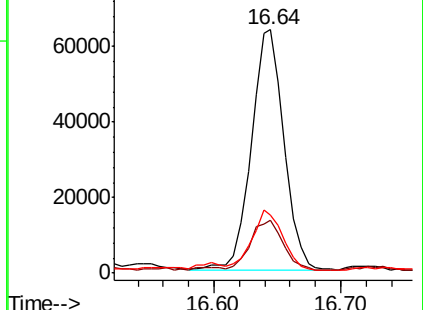
277 24.2 19.9 29.9

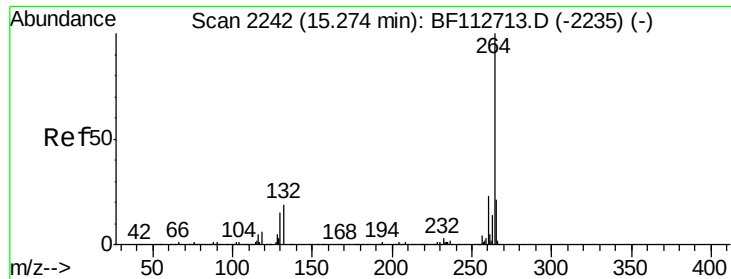


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

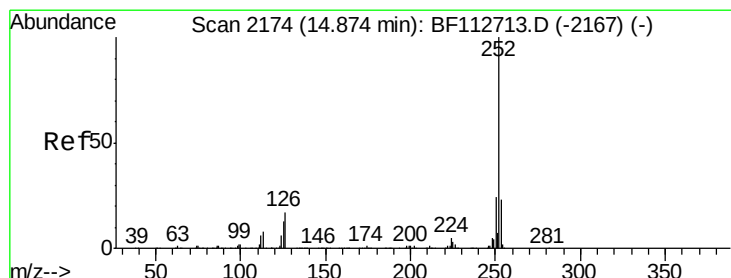
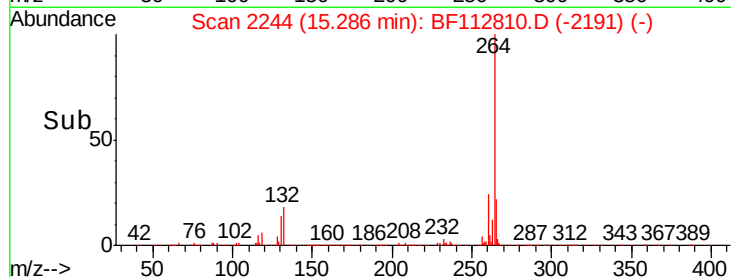
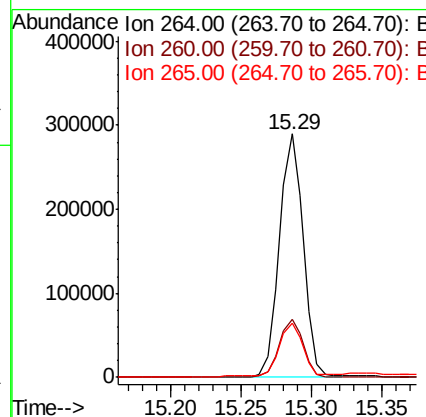
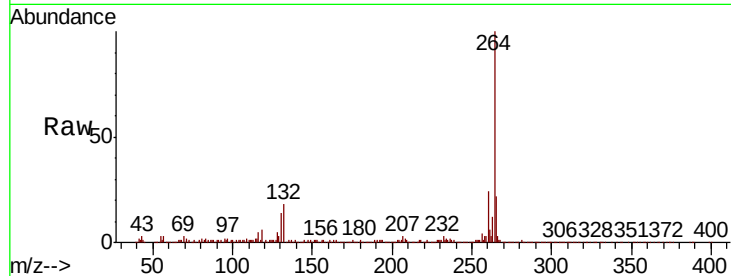




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

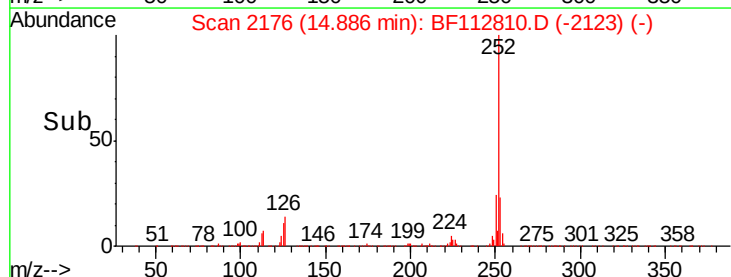
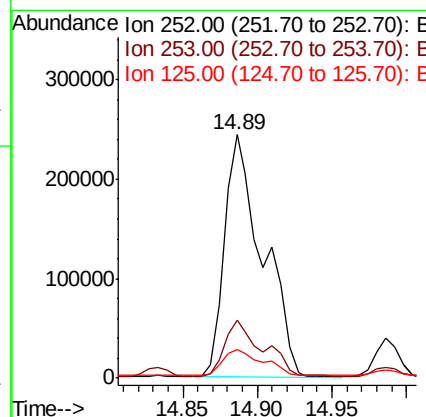
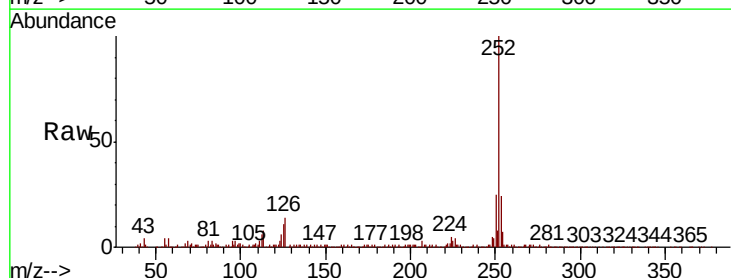
Instrument :
BNA_F
ClientSampleId :
Z-3-2-A

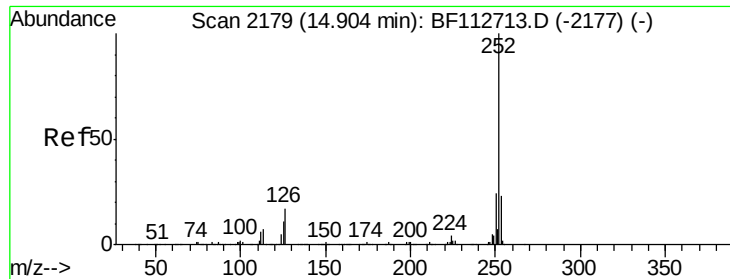
Tgt Ion:264 Resp: 340200
Ion Ratio Lower Upper
264 100
260 23.9 18.7 28.1
265 22.2 17.2 25.8



#88
Benzo(b)fluoranthene
Concen: 19.830 ng
RT: 14.89 min Scan# 2176
Delta R.T. 0.01 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Tgt Ion:252 Resp: 436372
Ion Ratio Lower Upper
252 100
253 23.6 18.0 27.0
125 11.5 10.2 15.2

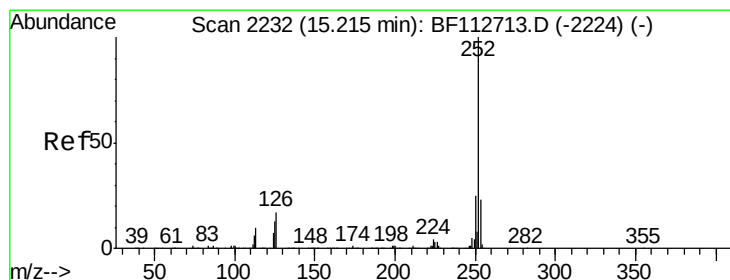
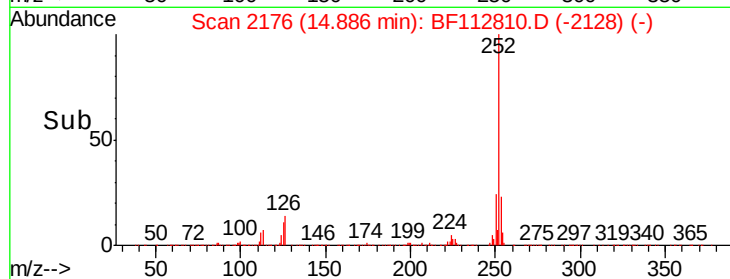
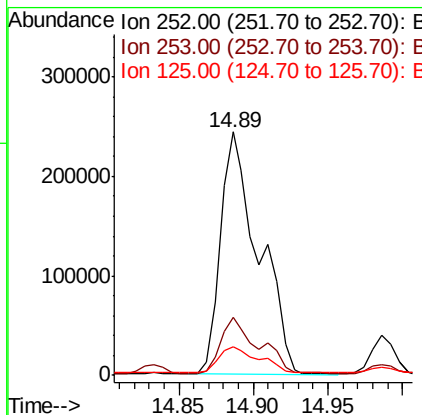
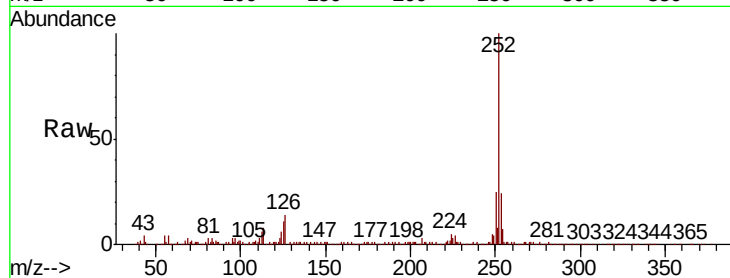




#89
Benzo(k)fluoranthene
Concen: 21.893 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.02 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

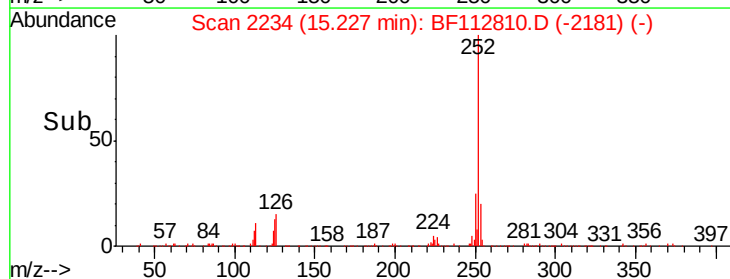
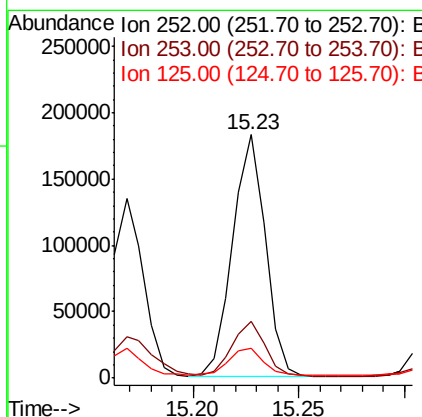
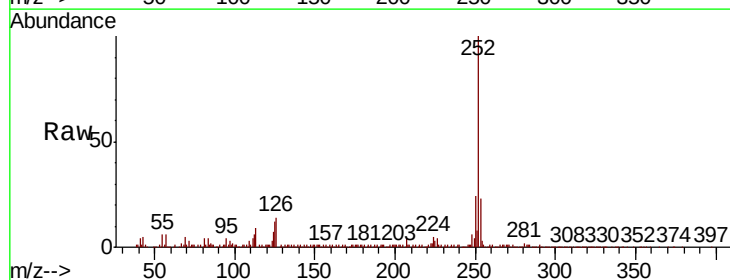
Instrument :
BNA_F
ClientSampleId :
Z-3-2-A

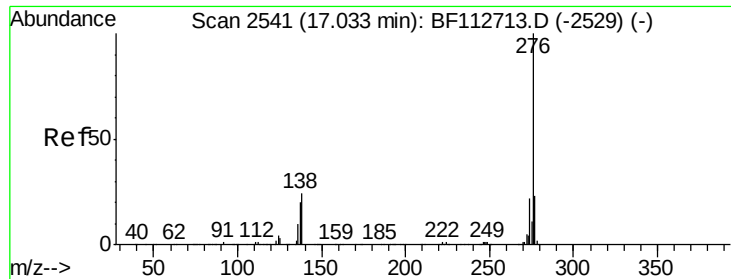
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	11.5	9.8	14.6



#90
Benzo(a)pyrene
Concen: 10.076 ng
RT: 15.23 min Scan# 2234
Delta R.T. 0.01 min
Lab File: BF112810.D
Acq: 1 Mar 2019 19:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	12.4	10.7	16.1





#92
 Benzo(g,h,i)perylene
 Concen: 6.164 ng
 RT: 17.05 min Scan# 2544
 Delta R.T. 0.02 min
 Lab File: BF112810.D
 Acq: 1 Mar 2019 19:59

Instrument :
 BNA_F
 ClientSampleId :
 Z-3-2-A

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.6	27.8
138	22.1	19.4	29.0

