

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032219\
 Data File : BF113231.D
 Acq On : 22 Mar 2019 13:35
 Operator : JU/SJ
 Sample : K1989-05 50X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 22 16:11:54 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 22 16:06:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	163873	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	660959	20.00	ng	0.00
39) Acenaphthene-d10	9.75	164	324585	20.00	ng	0.00
64) Phenanthrene-d10	11.23	188	693519	20.00	ng	0.00
76) Chrysene-d12	13.86	240	523209	20.00	ng	0.00
87) Perylene-d12	15.27	264	442896	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	16820	1.60	ng	0.00
7) Phenol-d6	6.36	99	23186	1.75	ng	0.00
23) Nitrobenzene-d5	7.27	82	13611	1.23	ng	-0.01
42) 2,4,6-Tribromophenol	10.54	330	7508	2.18	ng	0.00
45) 2-Fluorobiphenyl	9.07	172	35015	-1.00	ng	0.00
79) Terphenyl-d14	12.81	244	45282	1.68	ng	-0.01

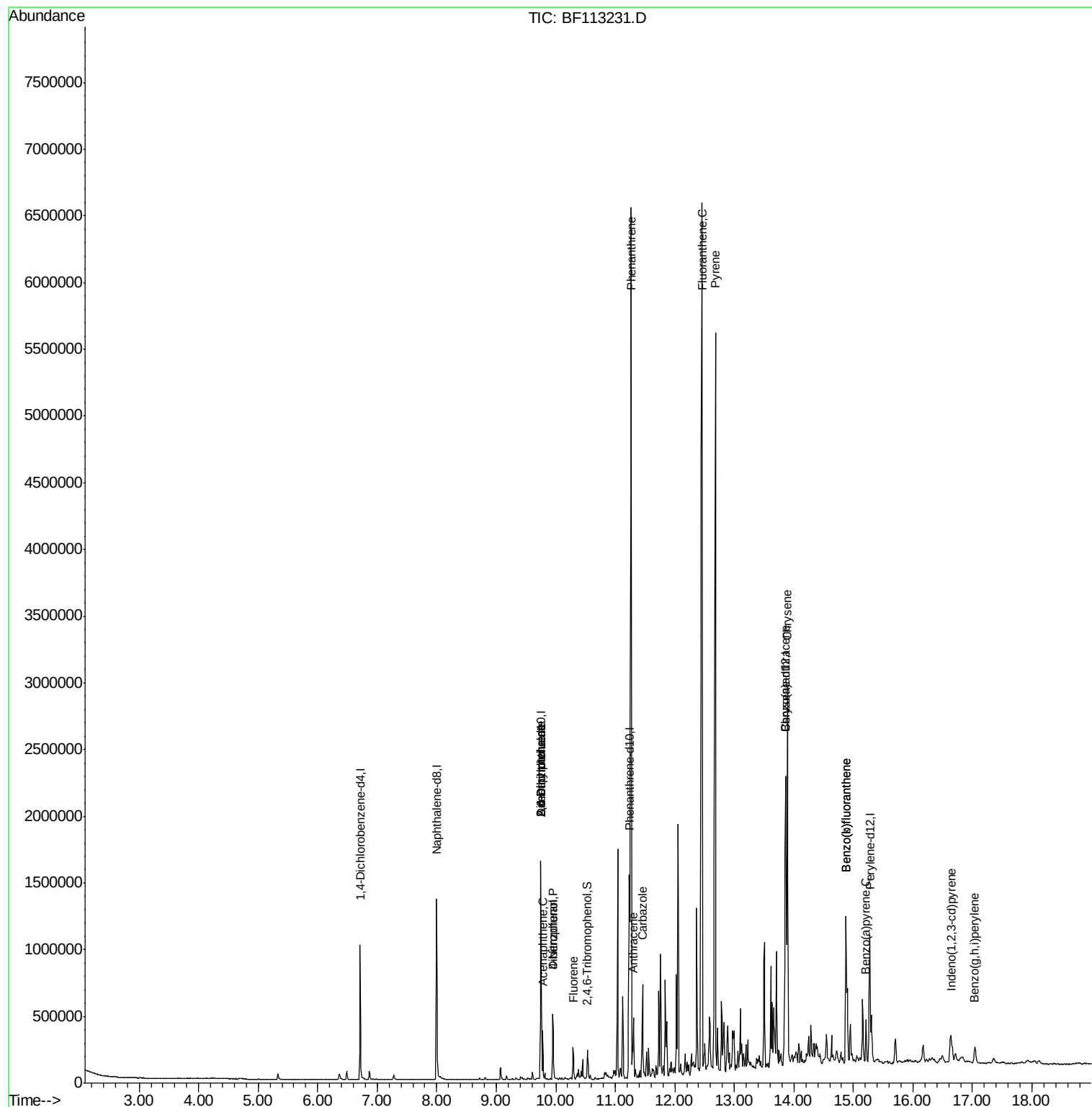
Target Compounds				Qvalue		
50) Dimethylphthalate	9.75	163	89309	3.732	ng	# 1
51) 2,6-Dinitrotoluene	9.75	165	43439	8.716	ng	# 26
52) Acenaphthene	9.78	154	68285	3.327	ng	97
55) Dibenzofuran	9.95	168	197439	6.619	ng	99
56) 4-Nitrophenol	9.95	139	69103	14.001	ng	# 16
57) 2,4-Dinitrotoluene	9.75	165	43439	7.012	ng	# 23
58) Fluorene	10.29	166	60859	2.875	ng	# 98
71) Phenanthrene	11.27	178	3090974	89.580	ng	98
72) Anthracene	11.30	178	168841	4.674	ng	98
73) Carbazole	11.46	167	280150	7.951	ng	97
75) Fluoranthene	12.46	202	3635636	98.344	ng	98
78) Pyrene	12.68	202	2902004	65.793	ng	98
81) Benzo(a)anthracene	13.86	228	682299	18.816	ng	99
83) Chrysene	13.89	228	1096052	30.858	ng	98
86) Indeno(1,2,3-cd)pyrene	16.63	276	125436	4.142	ng	95
88) Benzo(b)fluoranthene	14.87	252	720784	25.160	ng	98
89) Benzo(k)fluoranthene	14.87	252	720784	27.777	ng	98
90) Benzo(a)pyrene	15.21	252	150465	5.938	ng	98
92) Benzo(a,h,i)perylene	17.04	276	100376	4.623	ng	98

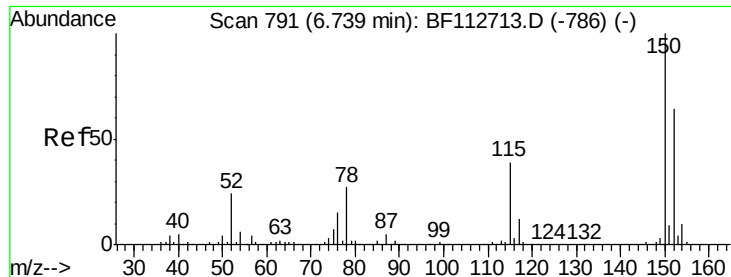
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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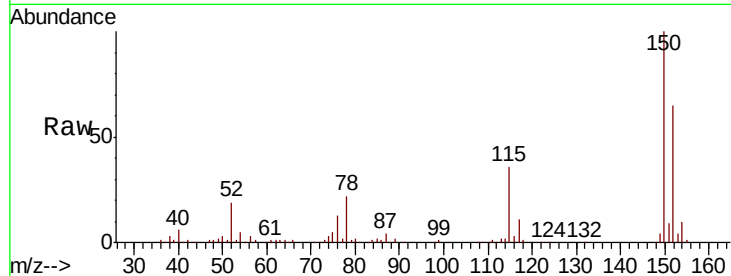


#1

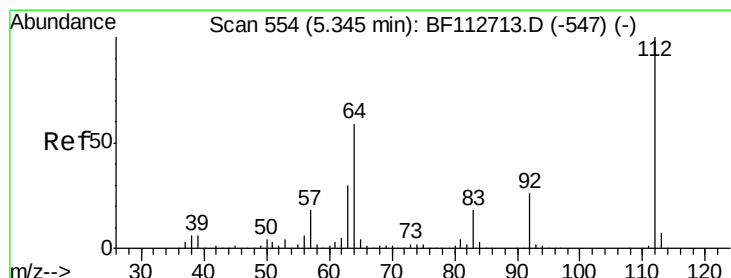
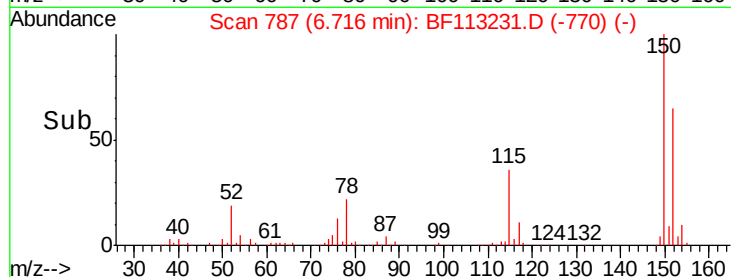
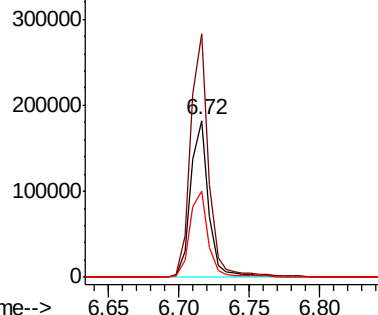
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 163873
Ion Ratio Lower Upper
152 100
150 155.0 124.2 186.2
115 55.1 47.4 71.0



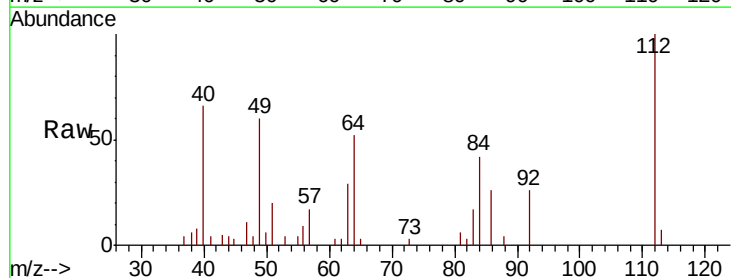
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



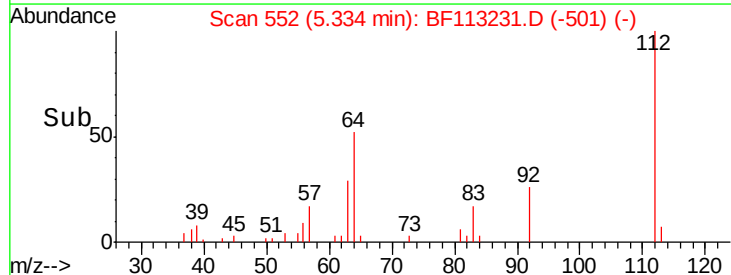
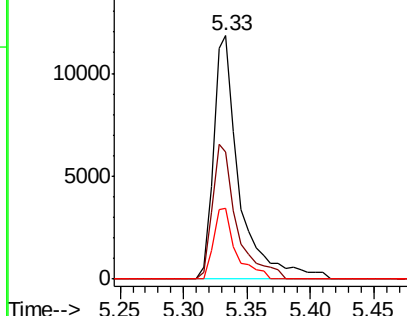
#5

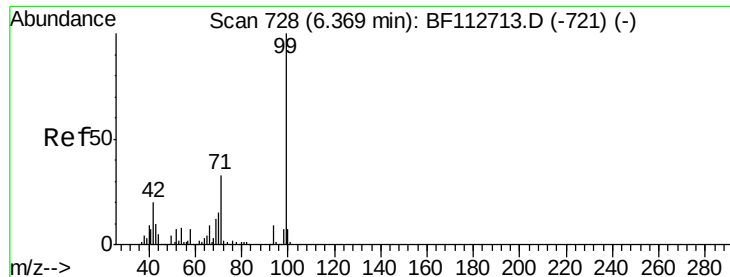
2-Fluorophenol
Concen: 1.597 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.00 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:112 Resp: 16820
Ion Ratio Lower Upper
112 100
64 52.3 48.7 73.1
63 28.9 24.9 37.3



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: 1.752 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

Instrument :

BNA_F

ClientSampleId :

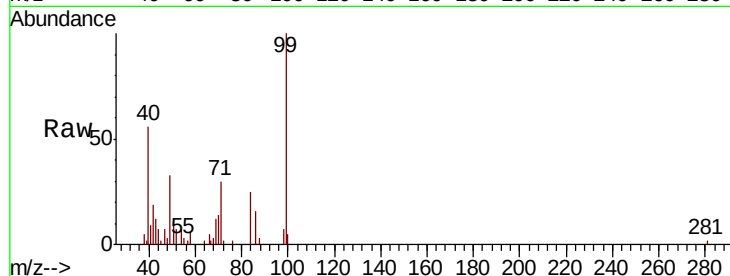
Tot Ion: 99 Resp: 23186

Ion Ratio Lower Upper

99 100

42 19.2 15.0 22.6

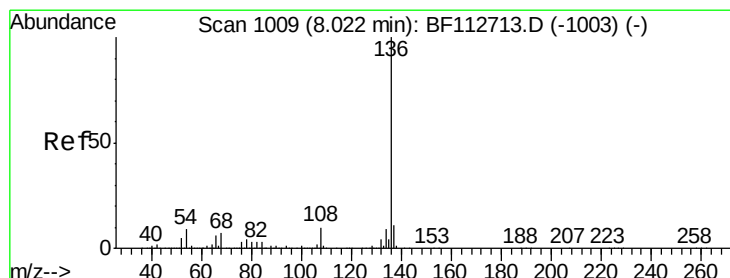
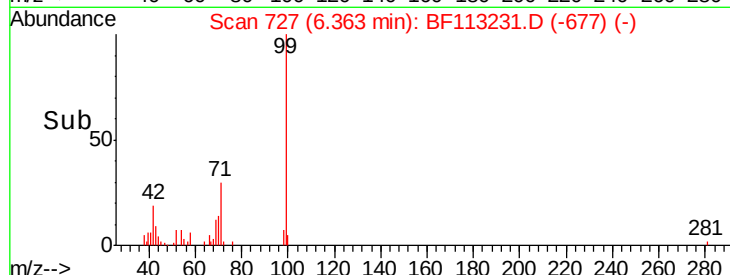
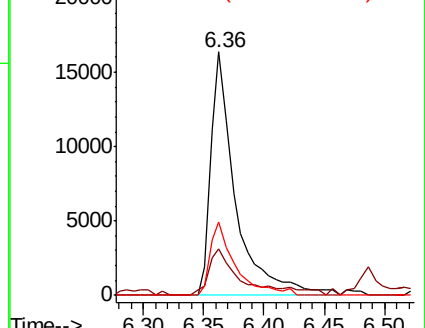
71 29.9 25.4 38.0



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: 8.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

Tgt Ion: 136 Resp: 660959

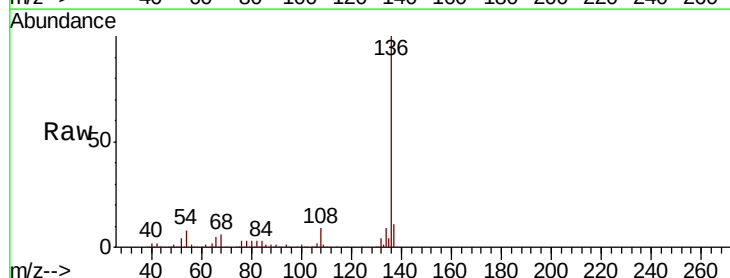
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 8.0 6.2 9.2

68 5.9 4.6 7.0

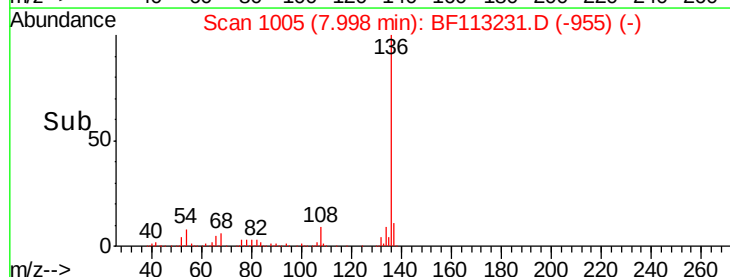
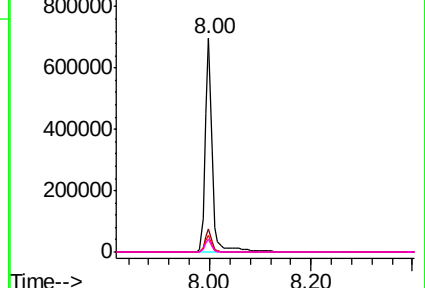


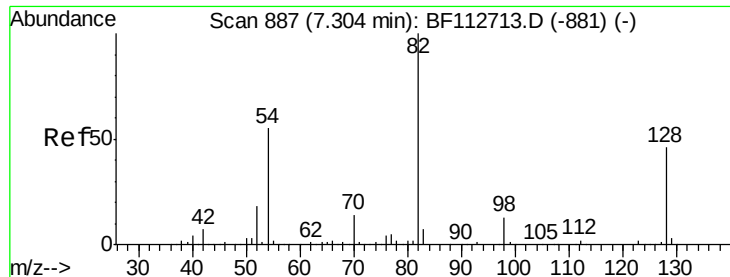
Abundance Ion 136.00 (135.70 to 136.70): E

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

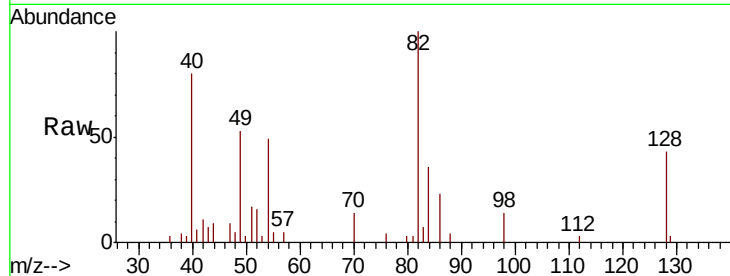




#23
Nitrobenzene-d5
Concen: 1.232 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Instrument :
BNA_F
ClientSampled :

Tot Ion	82	Resp	13611
Ion Ratio	Lower	Upper	
82	100		
128	43.2	37.5	56.3
54	48.8	41.8	62.8

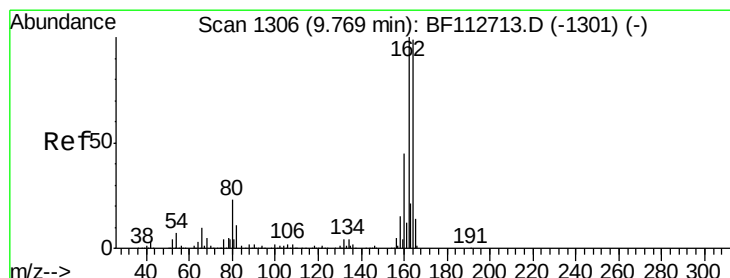
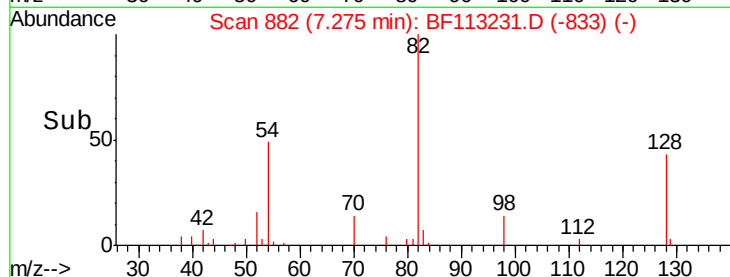
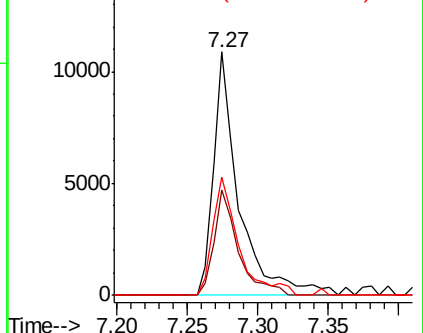


Abundance

Ion 82.00 (81.70 to 82.70): BF1

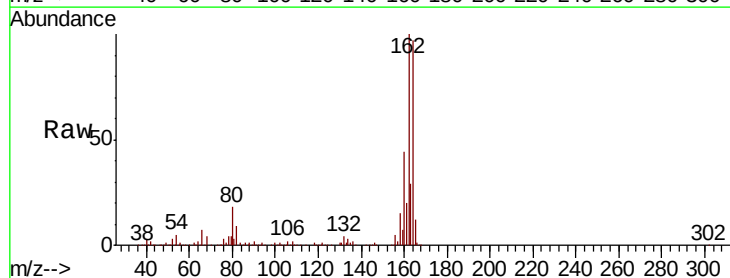
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion	164	Resp	324585
Ion Ratio	Lower	Upper	
164	100		
162	102.7	80.7	121.1
160	45.1	36.4	54.6

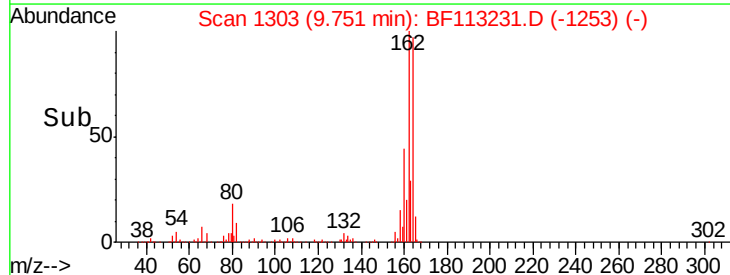
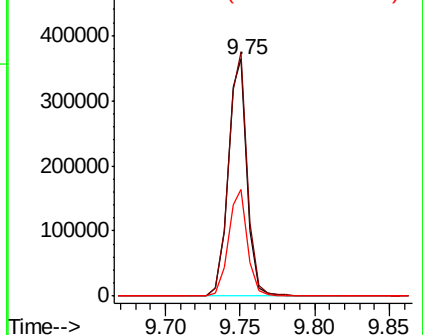


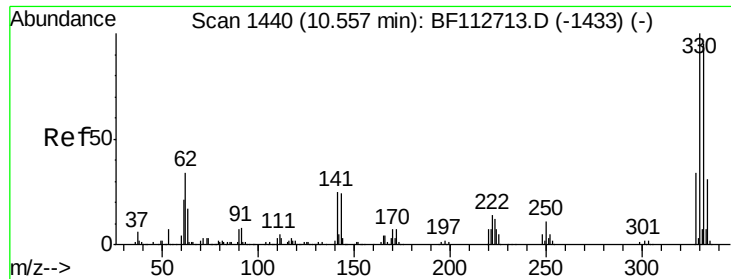
Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#42

2,4,6-Tribromophenol

Concen: 2.179 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

Instrument :

BNA_F

ClientSampleId :

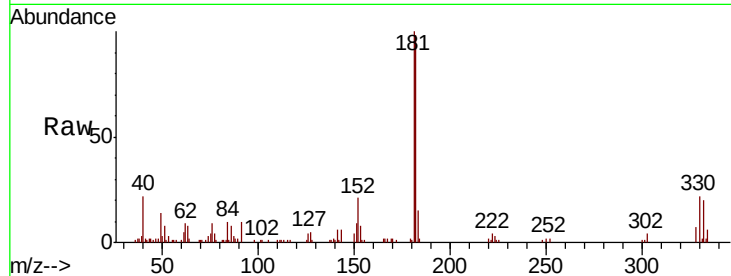
Tot Ion:330 Resp: 7508

Ion Ratio Lower Upper

330 100

332 93.4 75.8 113.8

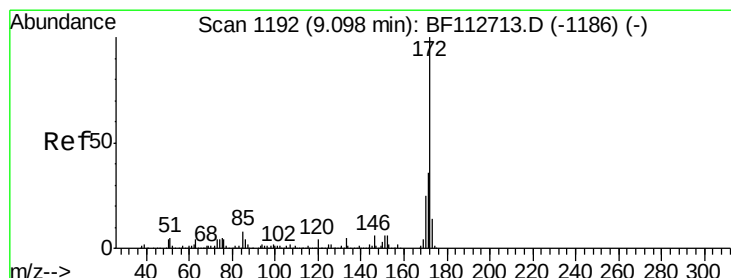
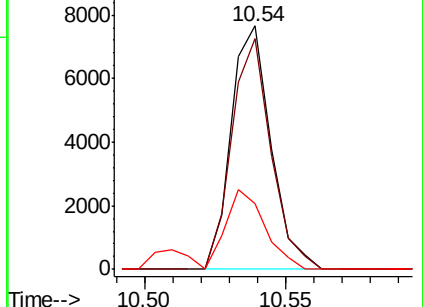
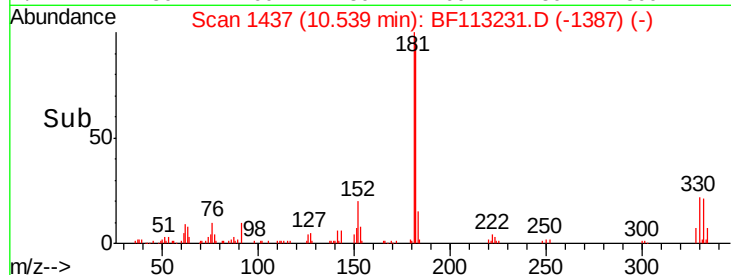
141 32.3 21.8 32.8



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: -1.000 ng

RT: 9.07 min Scan# 1188

Delta R.T. -0.01 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

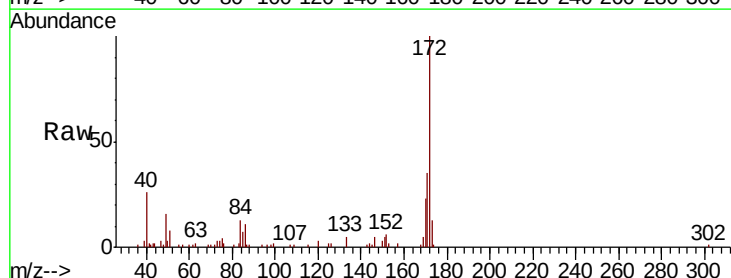
Tgt Ion:172 Resp: 35015

Ion Ratio Lower Upper

172 100

171 34.8 29.2 43.8

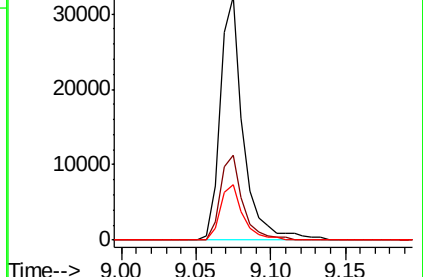
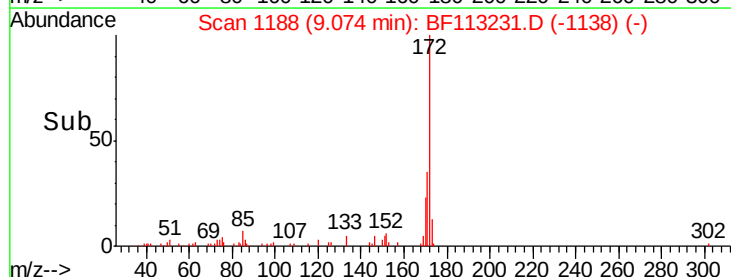
170 22.8 20.1 30.1

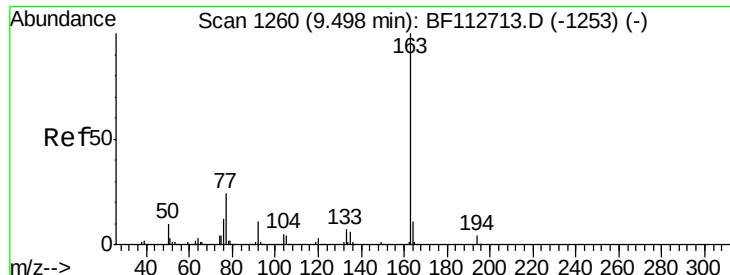


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 3.732 ng

RT: 9.75 min Scan# 1303

Delta R.T. 0.26 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

Instrument :

BNA_F

ClientSampleId :

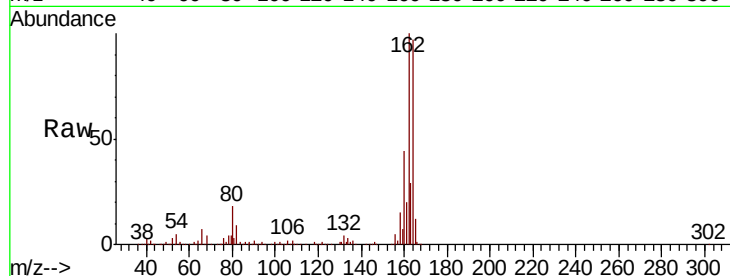
Tot Ion:163 Resp: 89309

Ion Ratio Lower Upper

163 100

194 0.0 3.2 4.8#

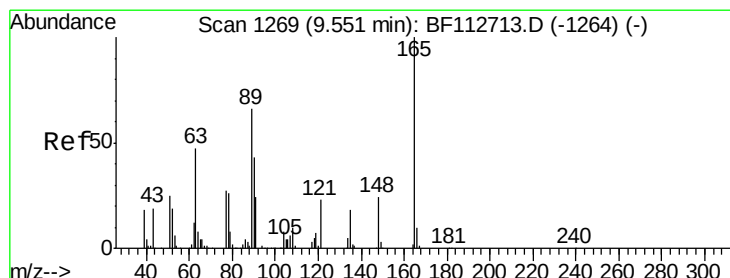
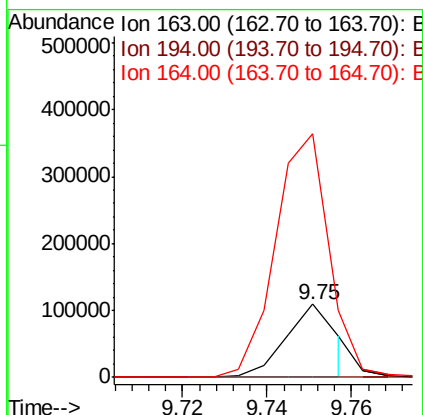
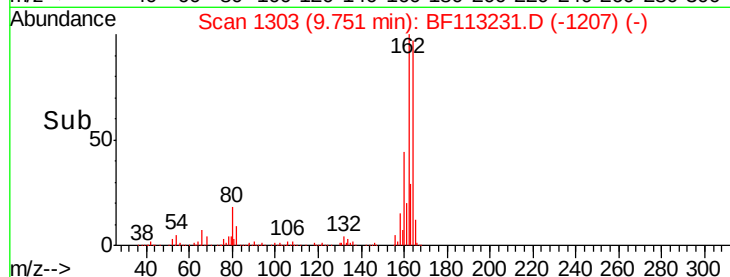
164 333.8 8.2 12.4#



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: 8.716 ng

RT: 9.75 min Scan# 1303

Delta R.T. 0.21 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

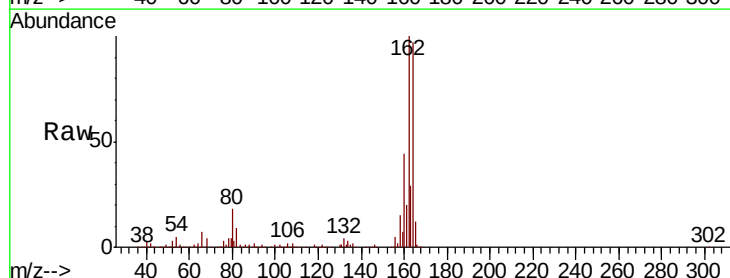
Tgt Ion:165 Resp: 43439

Ion Ratio Lower Upper

165 100

63 1.3 43.3 64.9#

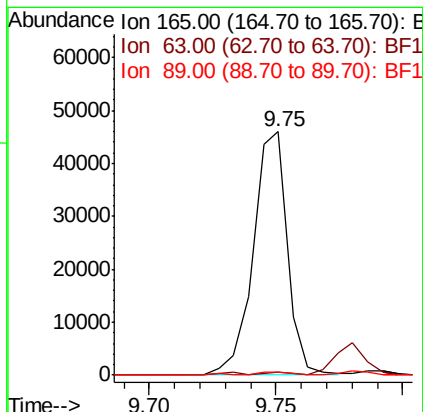
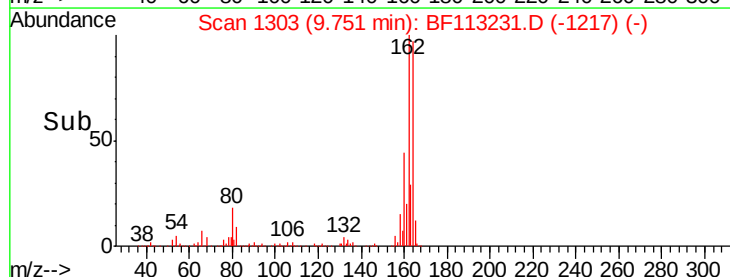
89 1.2 43.0 64.4#

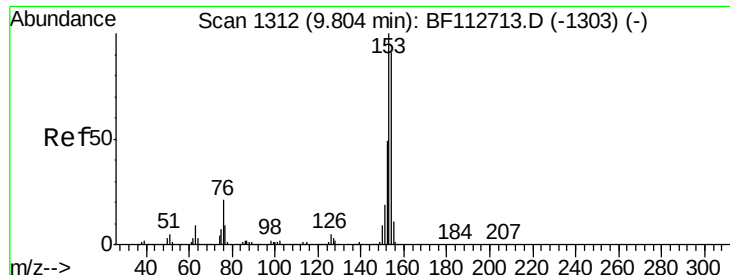


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 3.327 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

Instrument :

BNA_F

ClientSampled :

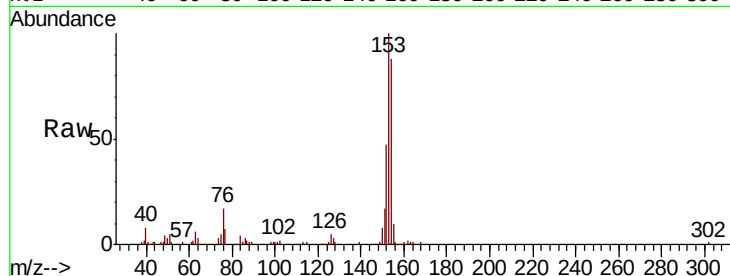
Tot Ion:154 Resp: 68285

Ion Ratio Lower Upper

154 100

153 113.7 88.0 132.0

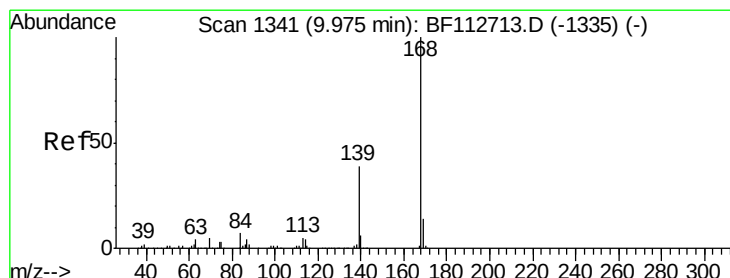
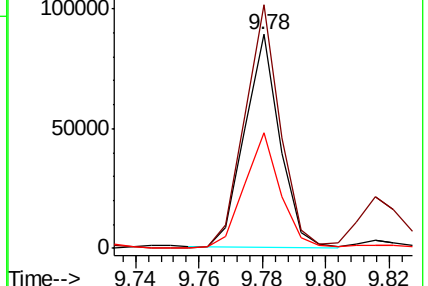
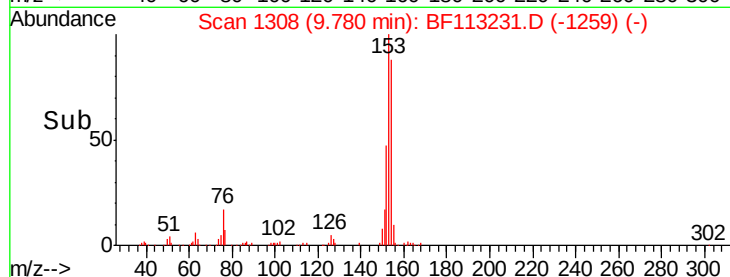
152 54.0 43.0 64.4



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



#55

Dibenzofuran

Concen: 6.619 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

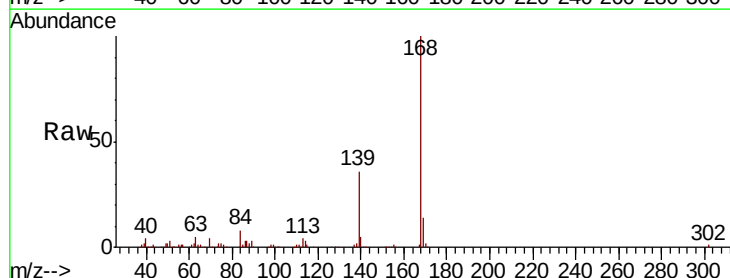
Tgt Ion:168 Resp: 197439

Ion Ratio Lower Upper

168 100

139 35.8 29.0 43.4

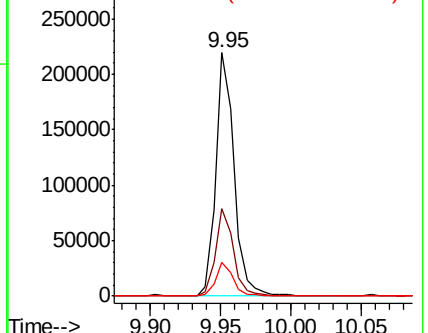
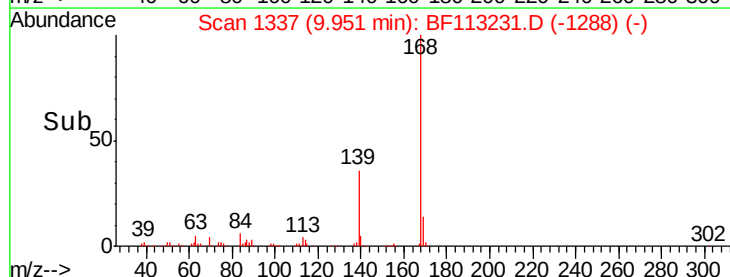
169 13.8 11.1 16.7

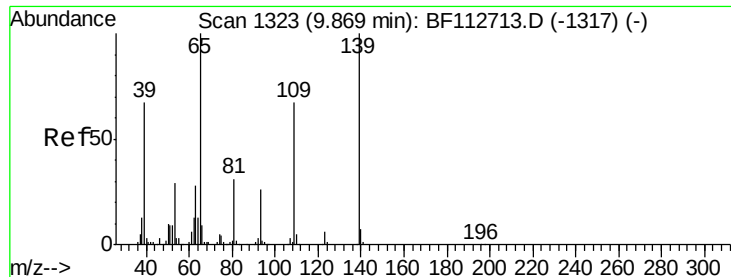


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

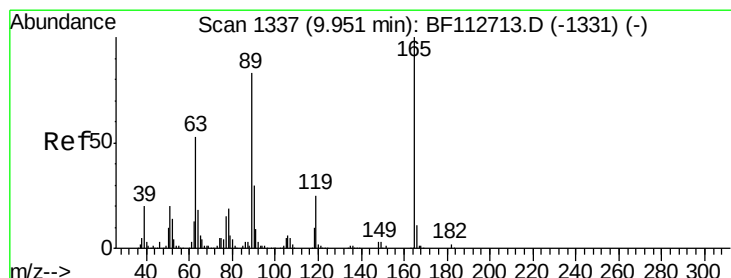
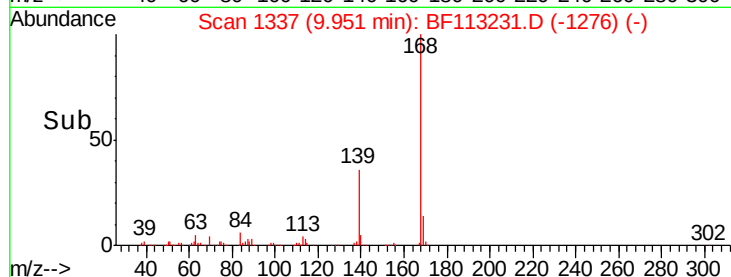
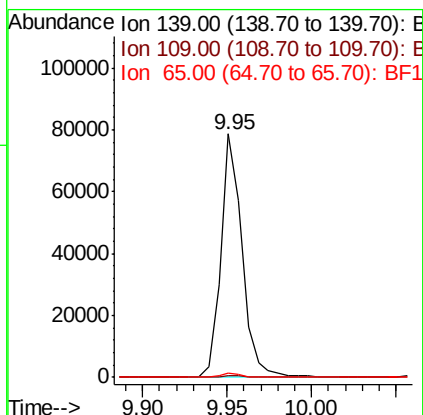
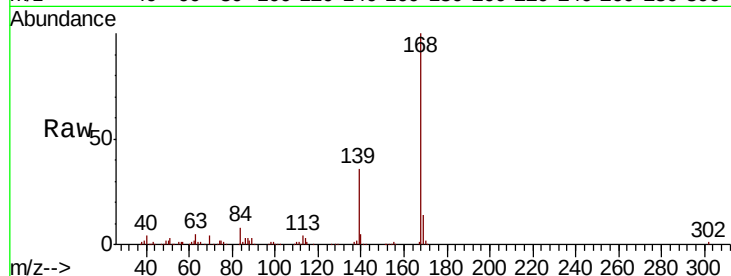




#56
4-Nitrophenol
Concen: 14.001 ng
RT: 9.95 min Scan# 1337
Delta R.T. 0.06 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

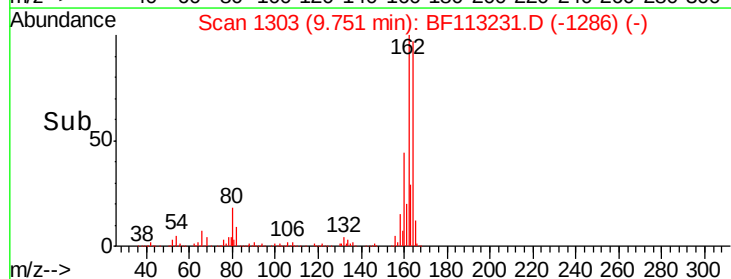
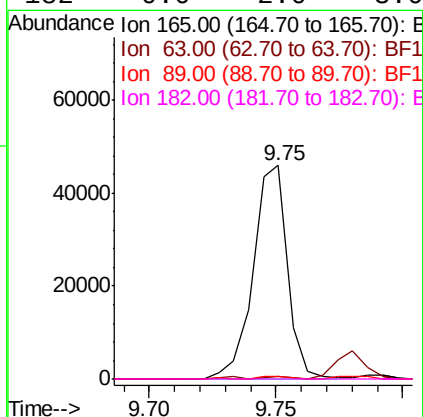
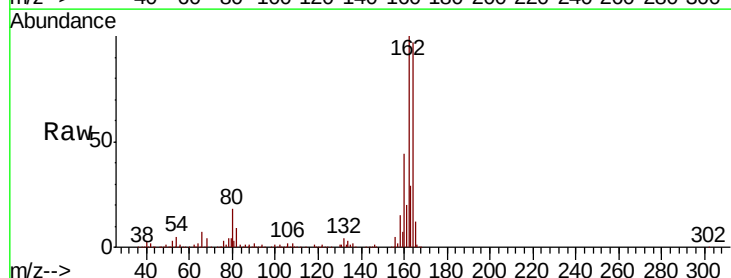
Instrument :
BNA_F
ClientSampled :

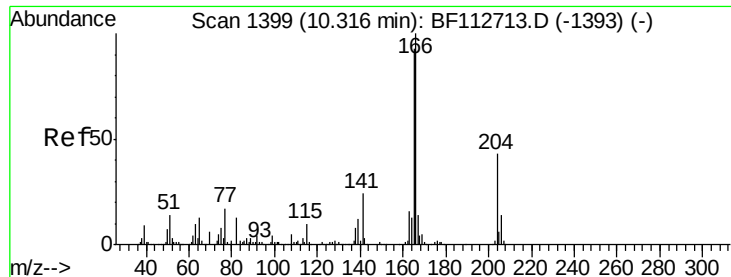
Tot Ion:139 Resp: 69103
Ion Ratio Lower Upper
139 100
109 0.7 38.1 78.1#
65 1.9 61.5 101.5#



#57
2,4-Dinitrotoluene
Concen: 7.012 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.20 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:165 Resp: 43439
Ion Ratio Lower Upper
165 100
63 1.3 38.3 57.5#
89 1.2 58.2 87.4#
182 0.0 2.0 3.0#

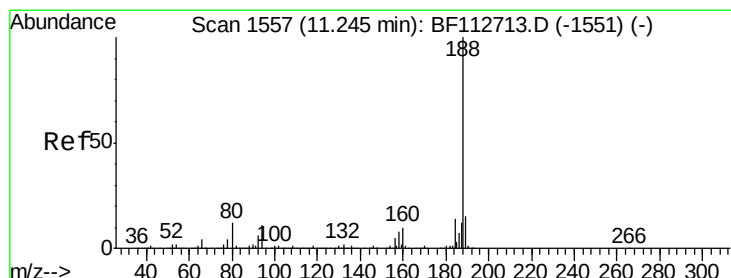
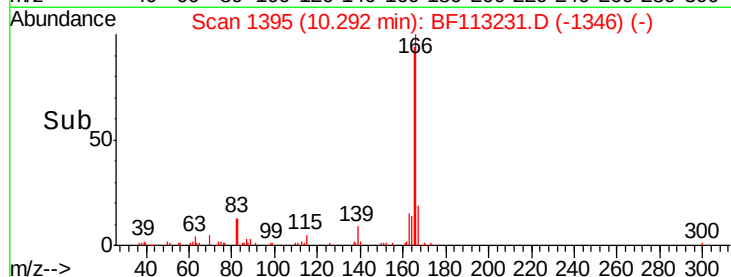
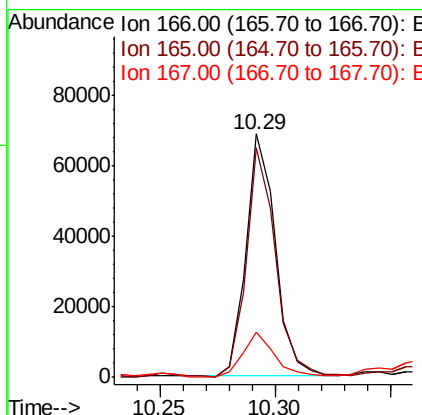
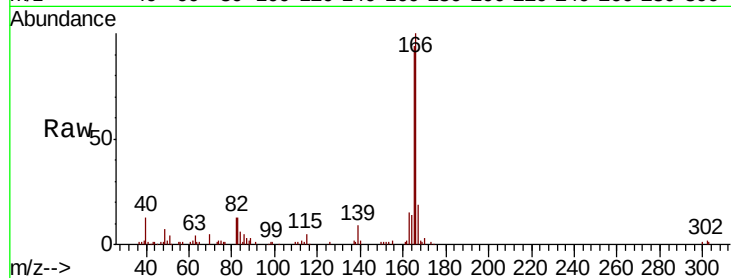




#58
 Fluorene
 Concen: 2.875 ng
 RT: 10.29 min Scan# 1395
 Delta R.T. -0.01 min
 Lab File: BF113231.D
 Acq: 22 Mar 2019 13:35

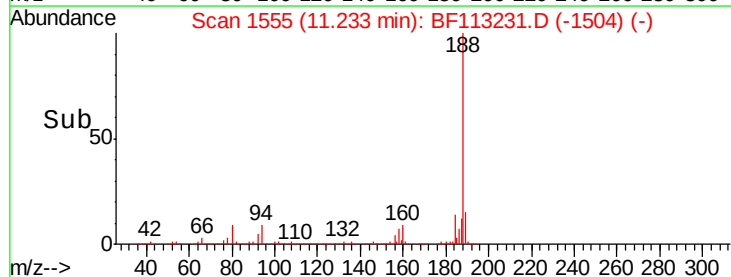
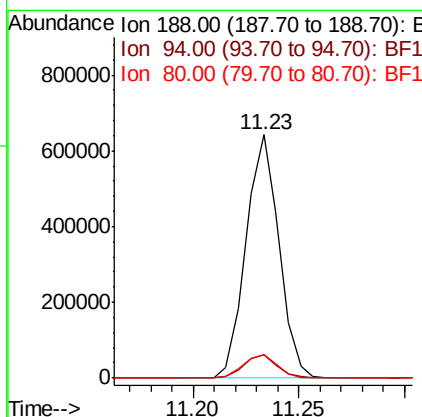
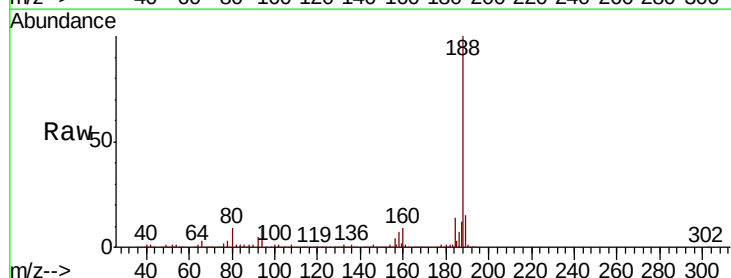
Instrument :
 BNA_F
 ClientSampleId :

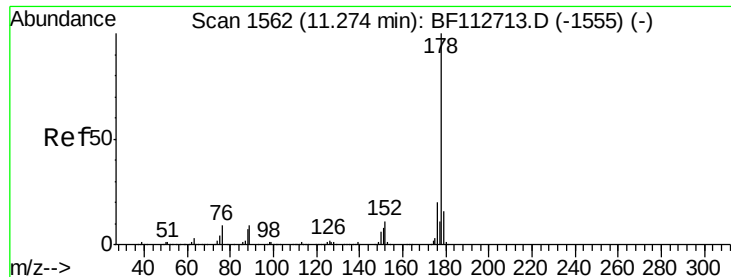
Tot Ion:166 Resp: 60859
 Ion Ratio Lower Upper
 166 100
 165 94.1 74.6 112.0
 167 18.7 11.0 16.4#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.23 min Scan# 1555
 Delta R.T. -0.00 min
 Lab File: BF113231.D
 Acq: 22 Mar 2019 13:35

Tgt Ion:188 Resp: 693519
 Ion Ratio Lower Upper
 188 100
 94 9.5 7.6 11.4
 80 9.4 7.8 11.8

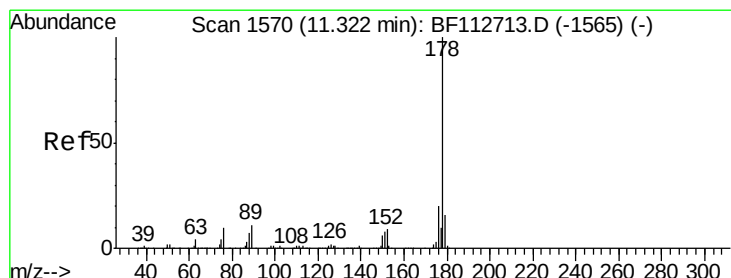
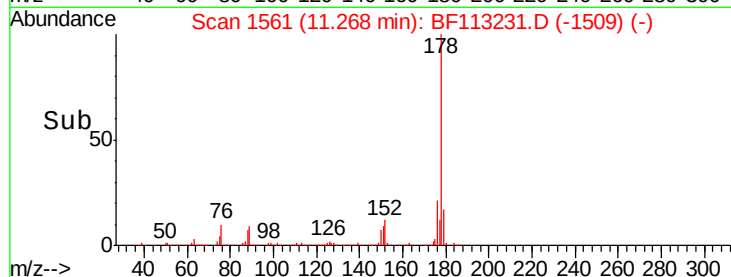
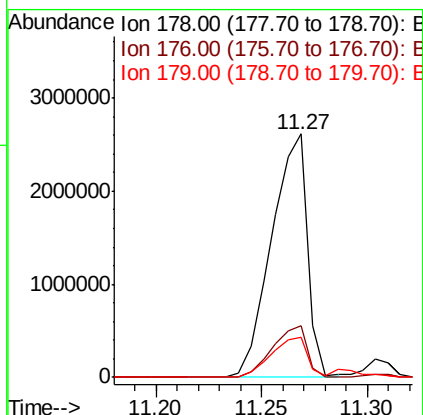
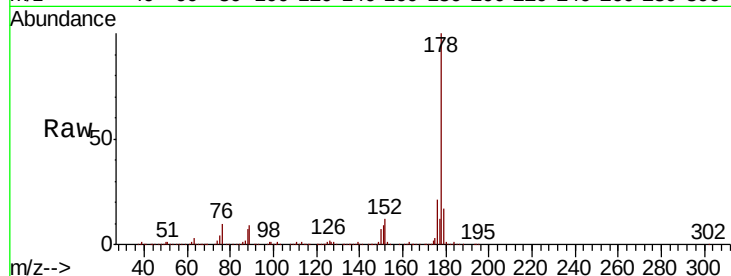




#71
Phenanthrene
Concen: 89.580 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

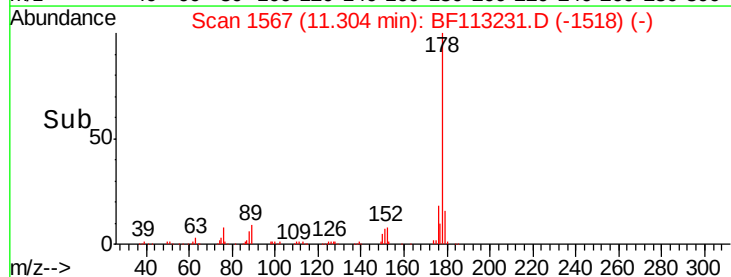
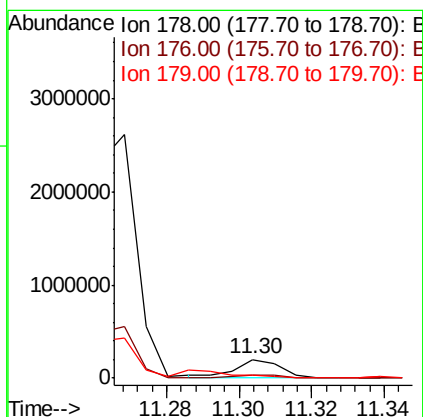
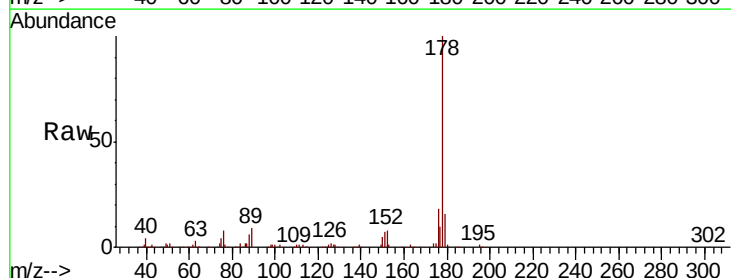
Instrument :
BNA_F
ClientSampleId :

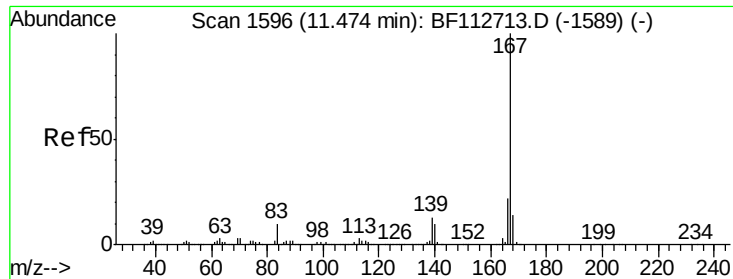
Tot Ion:178 Resp: 3090974
Ion Ratio Lower Upper
178 100
176 21.3 16.3 24.5
179 16.7 12.7 19.1



#72
Anthracene
Concen: 4.674 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:178 Resp: 168841
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.8
179 16.1 13.0 19.4

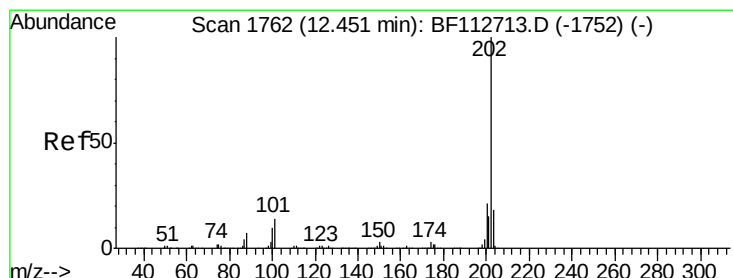
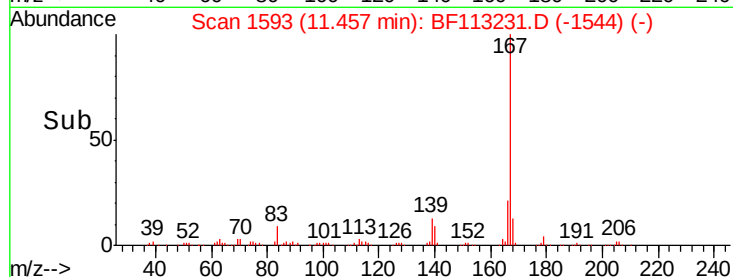
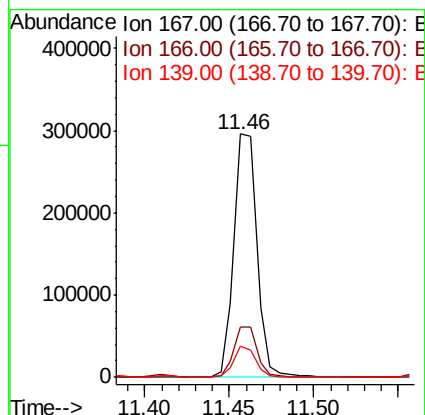
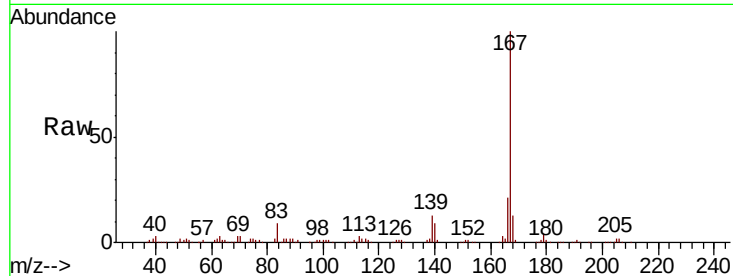




#73
 Carbazole
 Concen: 7.951 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF113231.D
 Acq: 22 Mar 2019 13:35

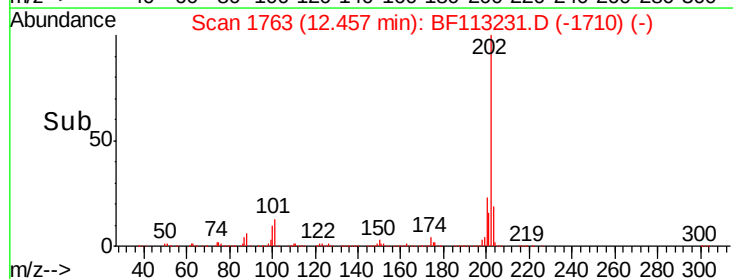
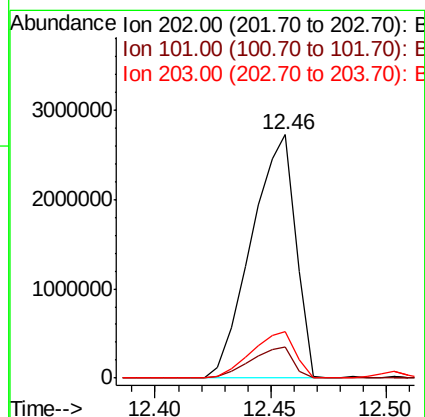
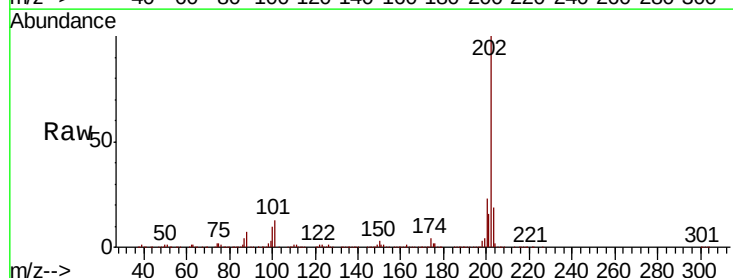
Instrument :
 BNA_F
 ClientSampleId :

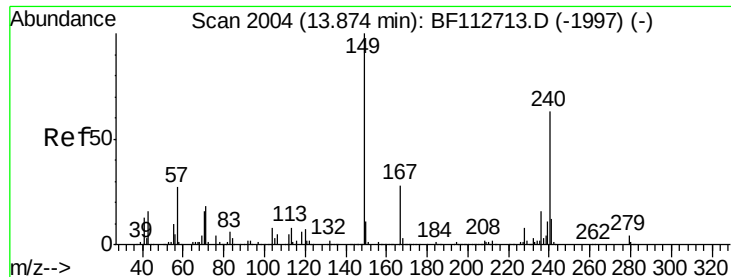
Tot Ion:	167	Resp:	280150
Ion	Ratio	Lower	Upper
167	100		
166	20.5	17.6	26.4
139	12.7	10.6	16.0



#75
 Fluoranthene
 Concen: 98.344 ng
 RT: 12.46 min Scan# 1763
 Delta R.T. 0.01 min
 Lab File: BF113231.D
 Acq: 22 Mar 2019 13:35

Tgt Ion:	202	Resp:	3635636
Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	32.0
203	19.3	0.0	38.8

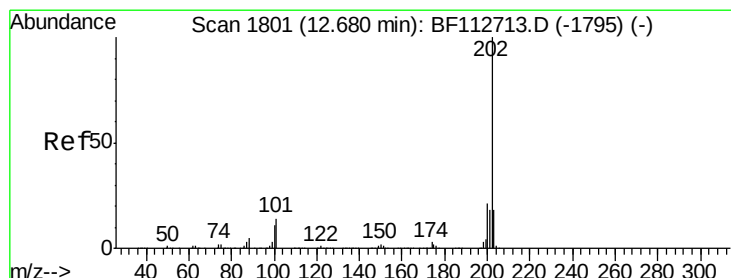
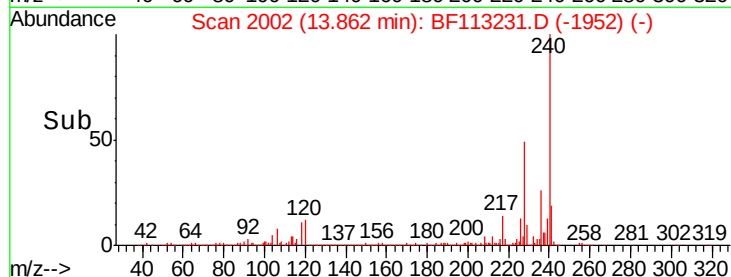
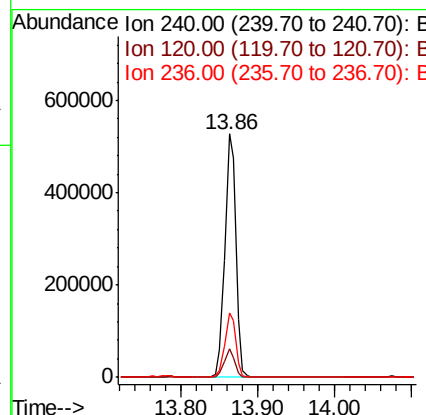
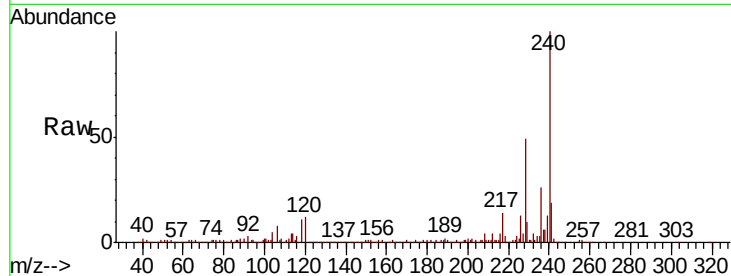




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

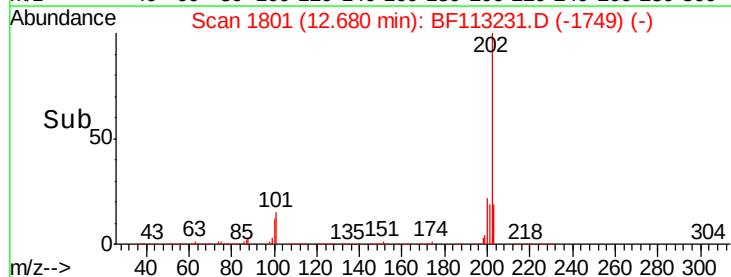
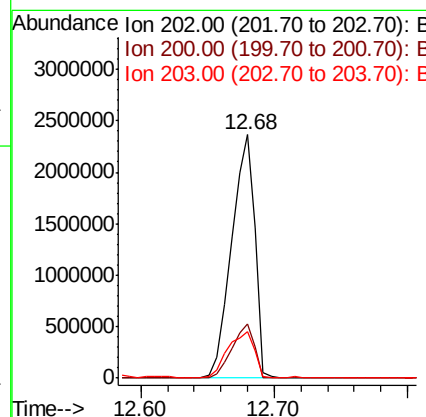
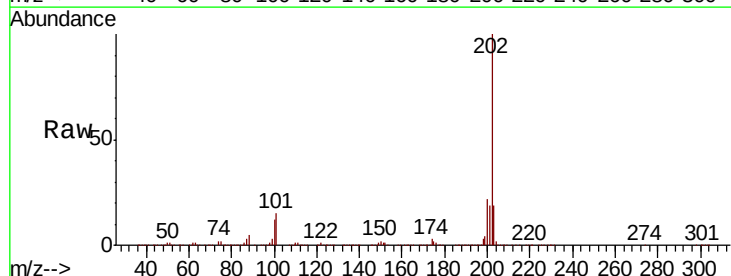
Instrument :
BNA_F
ClientSampleId :

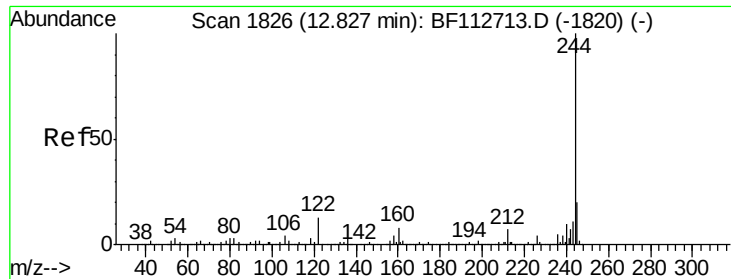
Tot Ion:240 Resp: 523209
Ion Ratio Lower Upper
240 100
120 11.9 9.6 14.4
236 26.5 21.1 31.7



#78
Pyrene
Concen: 65.793 ng
RT: 12.68 min Scan# 1801
Delta R.T. 0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:202 Resp: 2902004
Ion Ratio Lower Upper
202 100
200 22.0 17.0 25.4
203 19.3 14.7 22.1

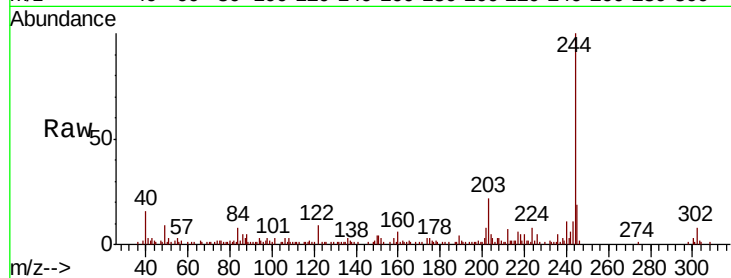




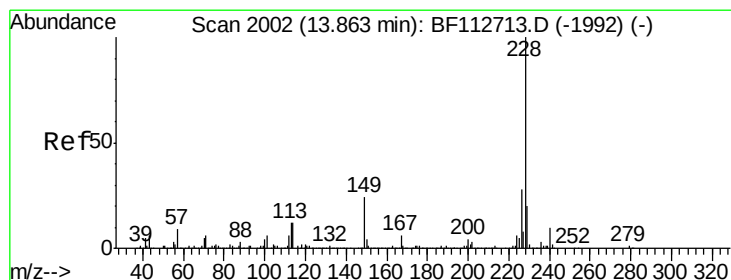
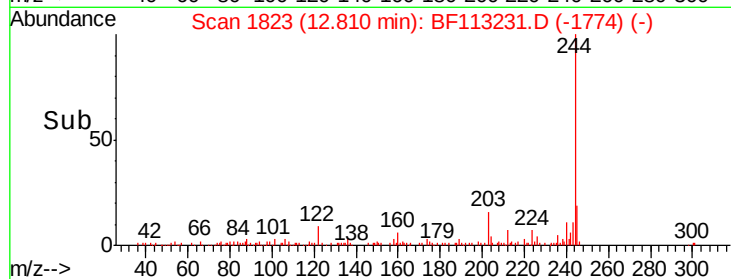
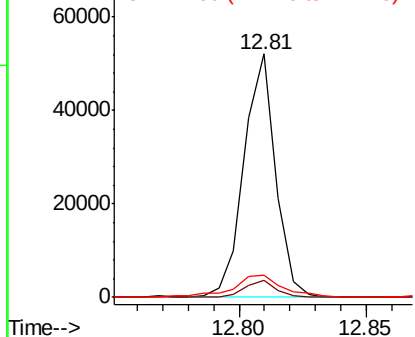
#79
 Terphenyl-d14
 Concen: 1.678 ng
 RT: 12.81 min Scan# 1823
 Delta R.T. -0.01 min
 Lab File: BF113231.D
 Acq: 22 Mar 2019 13:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 45282
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 9.0 8.4 12.6

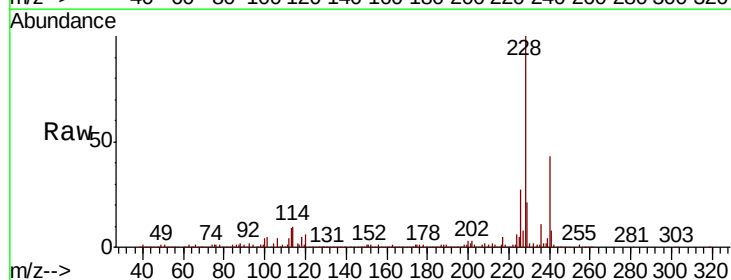


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

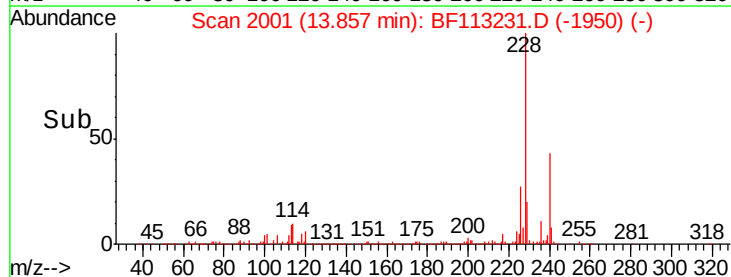
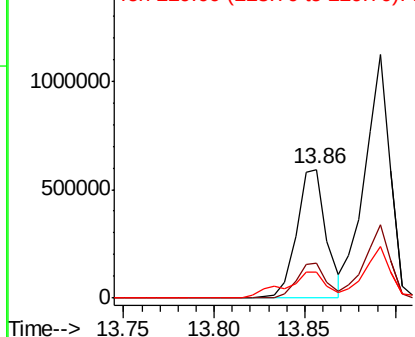


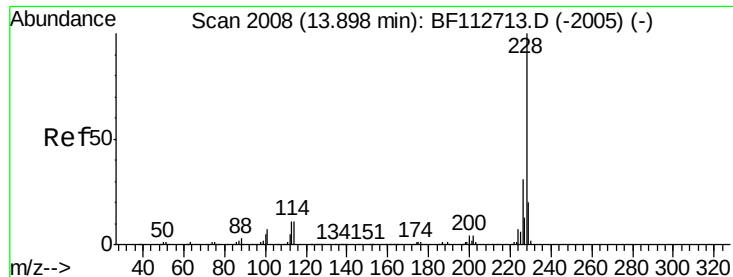
#81
 Benzo(a)anthracene
 Concen: 18.816 ng
 RT: 13.86 min Scan# 2001
 Delta R.T. -0.00 min
 Lab File: BF113231.D
 Acq: 22 Mar 2019 13:35

Tgt Ion:228 Resp: 682299
 Ion Ratio Lower Upper
 228 100
 226 27.2 22.2 33.2
 229 20.6 16.4 24.6



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

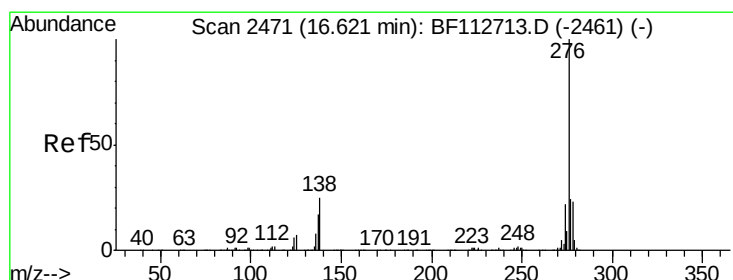
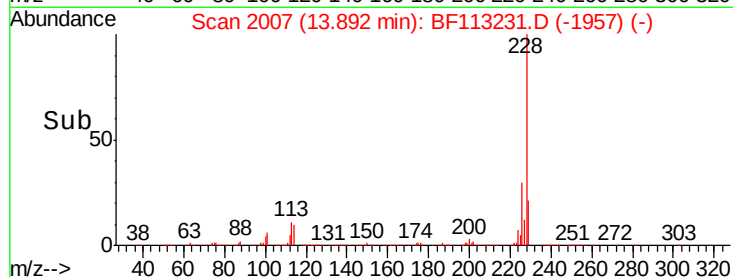
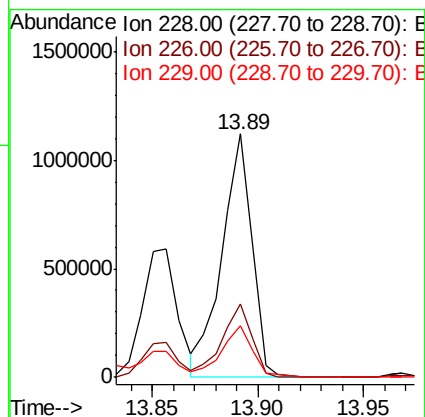
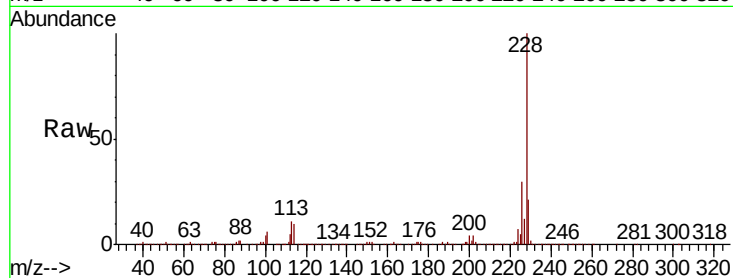




#83
Chrysene
Concen: 30.858 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

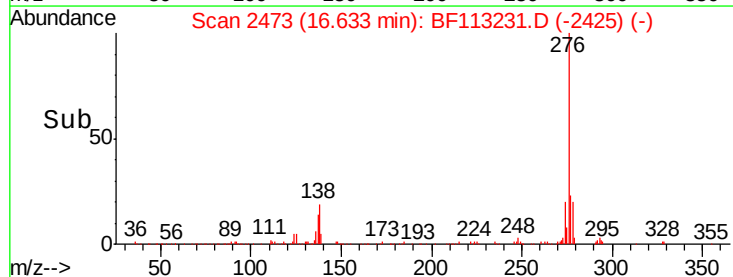
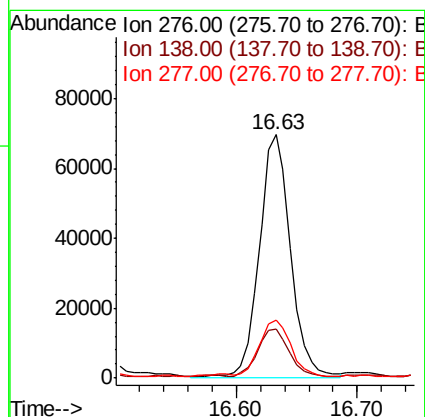
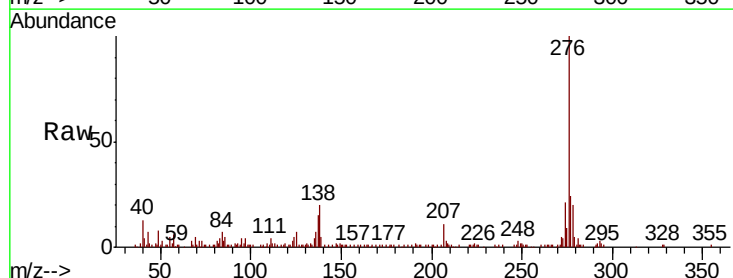
Instrument :
BNA_F
ClientSampled :

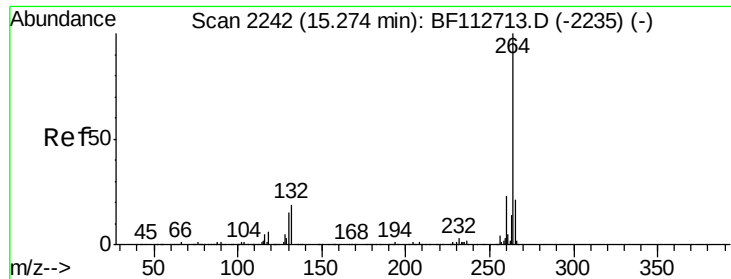
Tot Ion:228 Resp: 1096052
Ion Ratio Lower Upper
228 100
226 30.3 25.3 37.9
229 21.4 16.6 25.0



#86
Indeno(1,2,3-cd)pyrene
Concen: 4.142 ng
RT: 16.63 min Scan# 2473
Delta R.T. -0.02 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:276 Resp: 125436
Ion Ratio Lower Upper
276 100
138 19.6 19.0 28.6
277 24.1 20.1 30.1

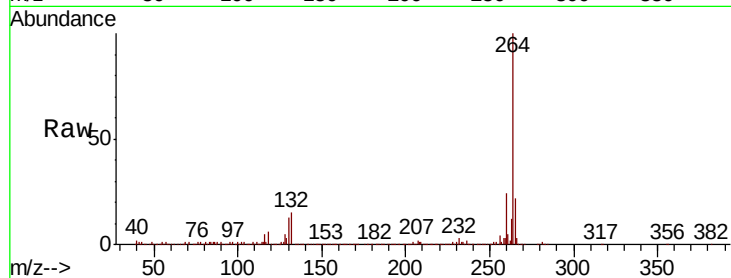




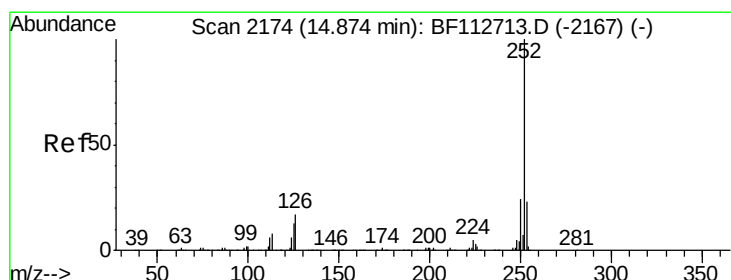
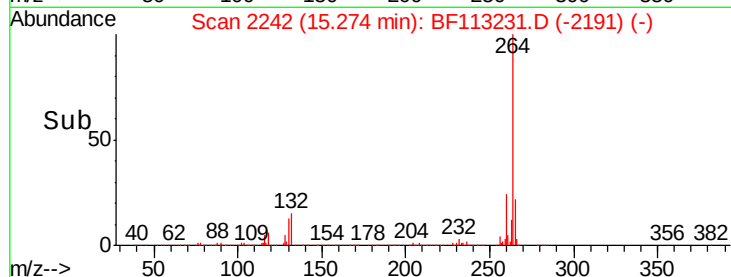
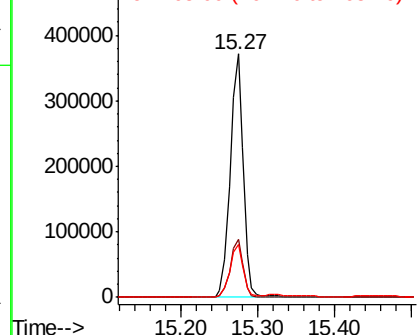
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2242
Delta R.T. -0.00 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 442896
Ion Ratio Lower Upper
264 100
260 23.7 19.0 28.4
265 21.9 17.1 25.7

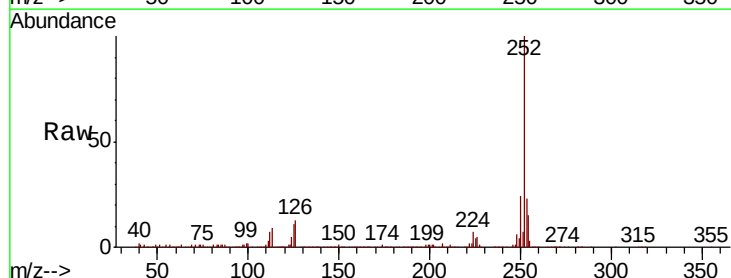


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

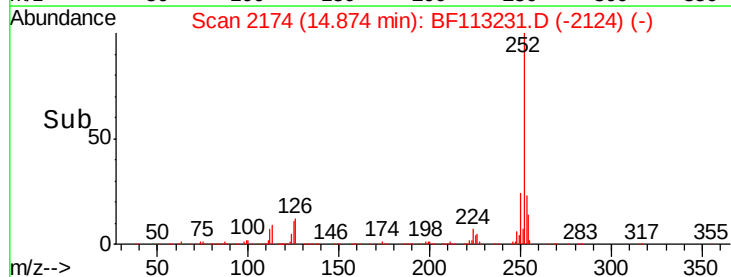
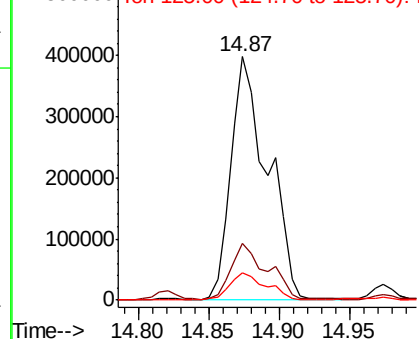


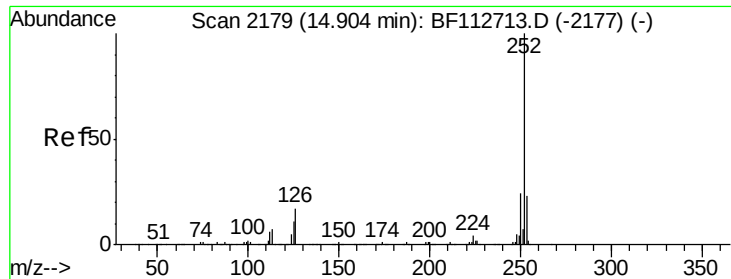
#88
Benzo(b)fluoranthene
Concen: 25.160 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:252 Resp: 720784
Ion Ratio Lower Upper
252 100
253 23.3 18.1 27.1
125 11.3 8.2 12.2



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

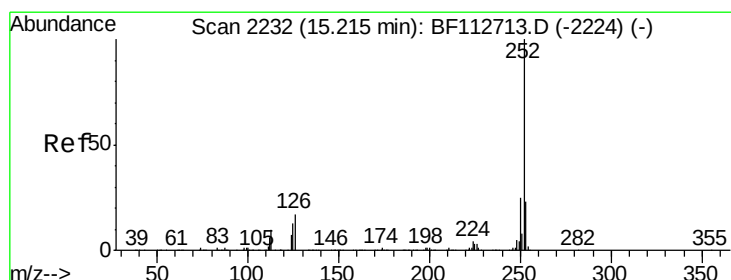
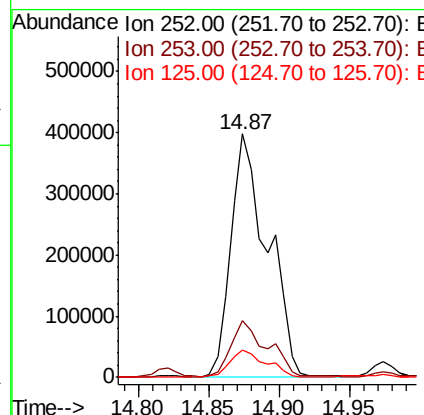
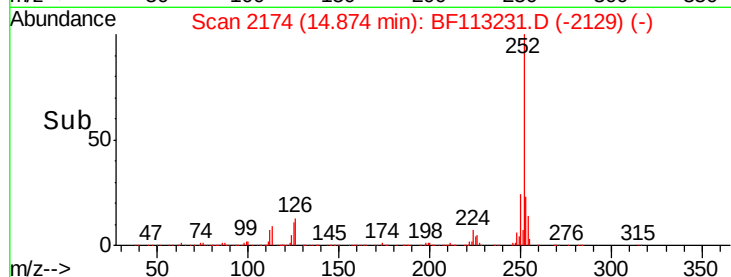
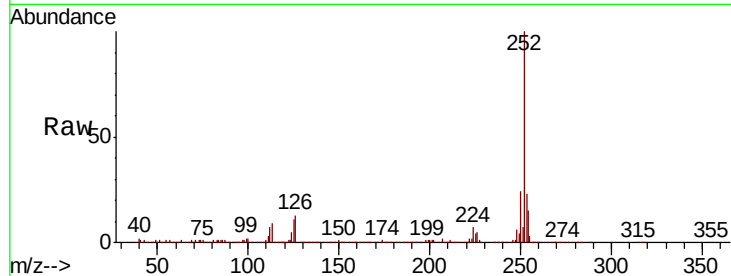




#89
Benzo(k)fluoranthene
Concen: 27.777 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.04 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

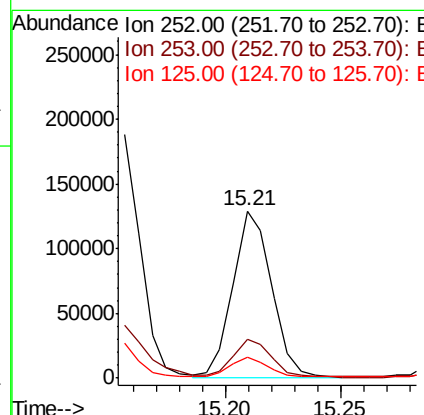
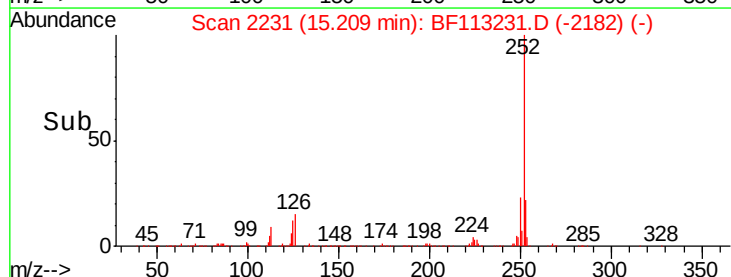
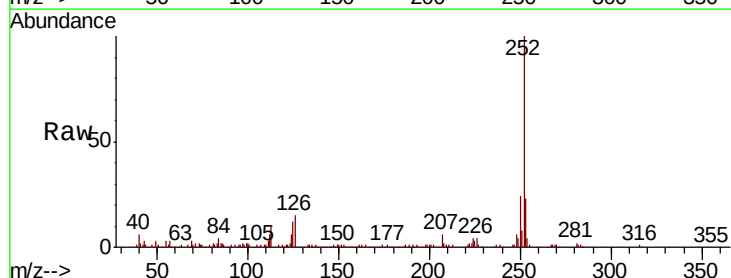
Instrument :
BNA_F
ClientSampleId :

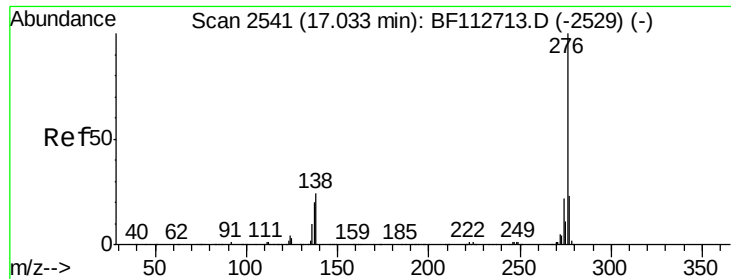
Tot Ion:252 Resp: 720784
Ion Ratio Lower Upper
252 100
253 23.3 18.2 27.2
125 11.3 7.9 11.9



#90
Benzo(a)pyrene
Concen: 5.938 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF113231.D
Acq: 22 Mar 2019 13:35

Tgt Ion:252 Resp: 150465
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 12.3 9.2 13.8





#92

Benzo(a,h,i)perylene

Concen: 4.623 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.02 min

Lab File: BF113231.D

Acq: 22 Mar 2019 13:35

Instrument :

BNA_F

ClientSampleId :

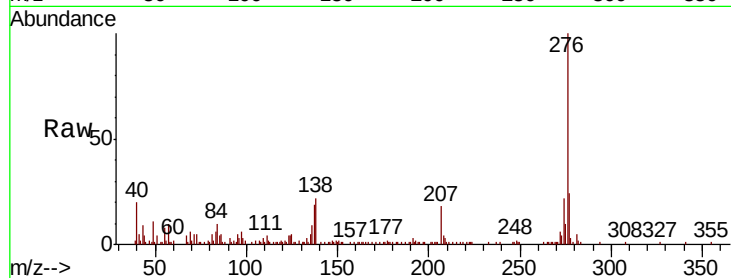
Tot Ion: 276 Resp: 100376

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.6

138 22.0 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

