

Data File : BF118653.D
Acq On : 22 Jan 2020 1:00
Operator : CG/JU
Sample : L1148-16DL 200X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Quant Time: Jan 22 04:23:45 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 20 14:45:03 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	409522	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1510792	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	781964	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	1193145	20.00	ng	0.00
76) Chrysene-d12	14.04	240	941667	20.00	ng	0.00
87) Perylene-d12	15.51	264	1010805	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	10639	0.48	ng	-0.01
7) Phenol-d6	6.49	99	15569	0.54	ng	-0.02
23) Nitrobenzene-d5	7.43	82	8661	0.32	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	2843	0.31	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	19576	0.41	ng	-0.01
79) Terphenyl-d14	12.98	244	20615	0.48	ng	-0.01

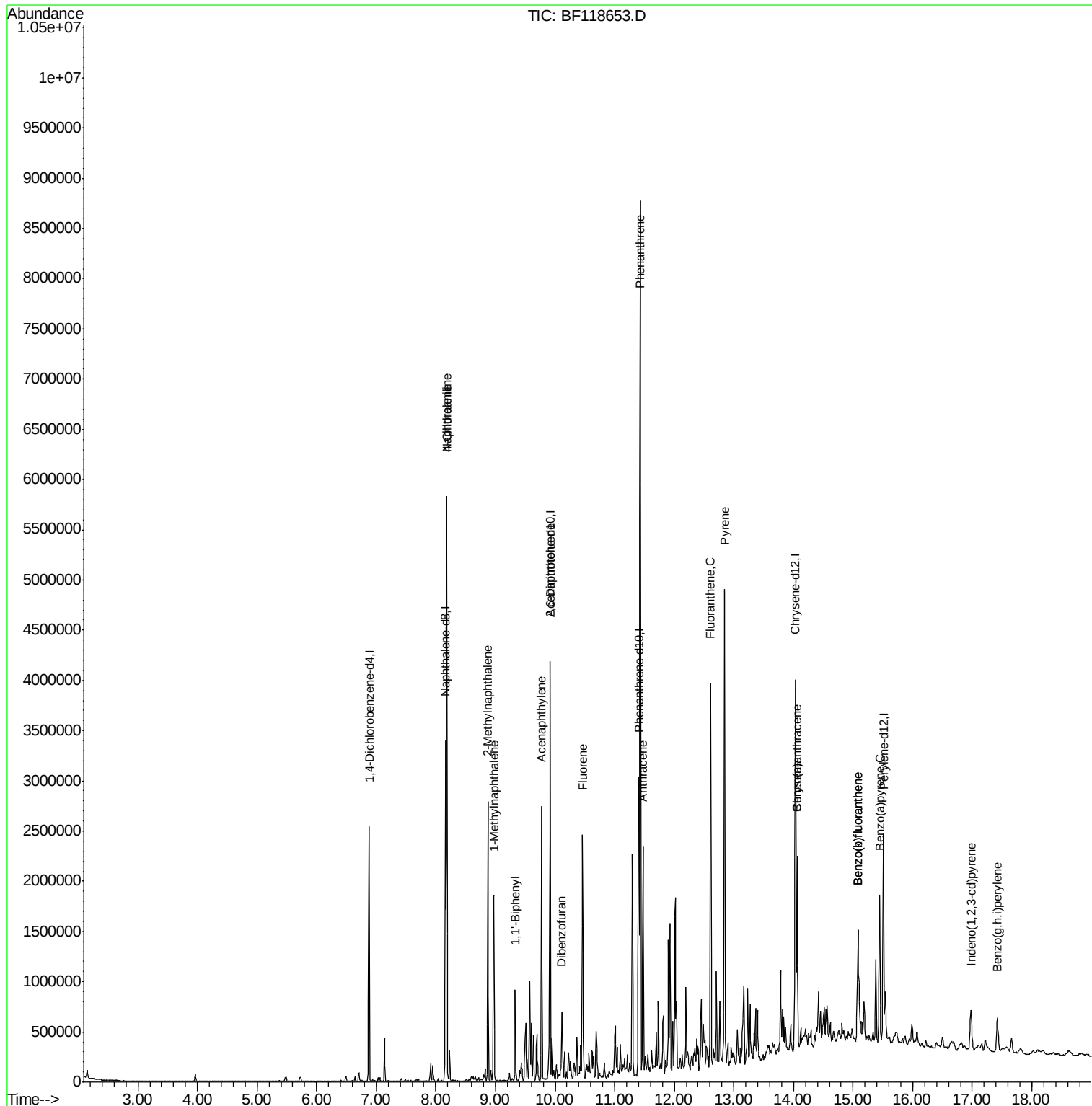
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.19	128	2642342	38.717	ng	99
33) 4-Chloroaniline	8.19	127	366954	11.633	ng	# 35
37) 2-Methylnaphthalene	8.87	142	699800	14.527	ng	98
38) 1-Methylnaphthalene	8.97	142	522775	11.423	ng	100
46) 1,1'-Biphenyl	9.33	154	257243	4.773	ng	95
49) Acenaphthylene	9.77	152	925191	14.478	ng	95
51) 2,6-Dinitrotoluene	9.92	165	124397	10.904	ng	# 21
55) Dibenzofuran	10.12	168	191661	3.237	ng	92
58) Fluorene	10.46	166	638910	13.743	ng	99
71) Phenanthrene	11.43	178	3214158	55.838	ng	98
72) Anthracene	11.47	178	805392	14.140	ng	93
75) Fluoranthene	12.62	202	1594285	26.260	ng	94
78) Pyrene	12.84	202	2051769	32.094	ng	94
81) Benzo(a)anthracene	14.06	228	757858	13.379	ng	99
83) Chrysene	14.06	228	757858	13.959	ng	95
86) Indeno(1,2,3-cd)pyrene	16.98	276	276960	5.871	ng	97
88) Benzo(b)fluoranthene	15.08	252	927633	14.600	ng	98
89) Benzo(k)fluoranthene	15.08	252	927633	15.759	ng	98
90) Benzo(a)pyrene	15.44	252	728546	13.293	ng	98
92) Benzo(g,h,i)perylene	17.42	276	302380	6.424	ng	97

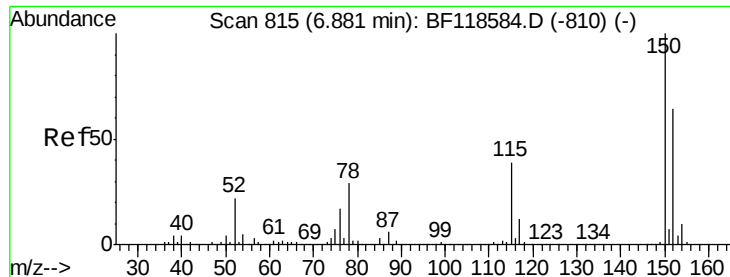
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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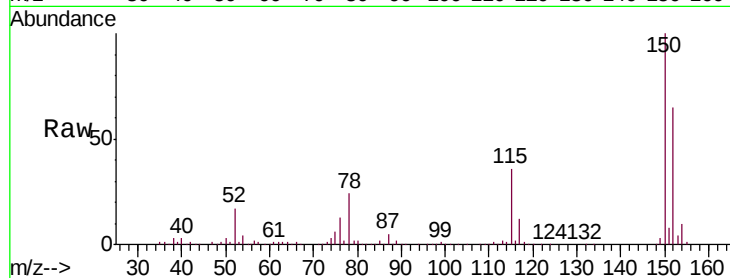


#1

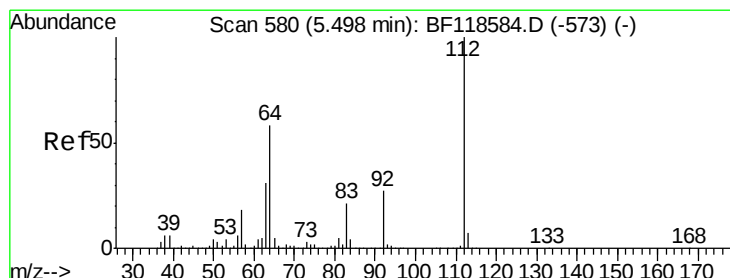
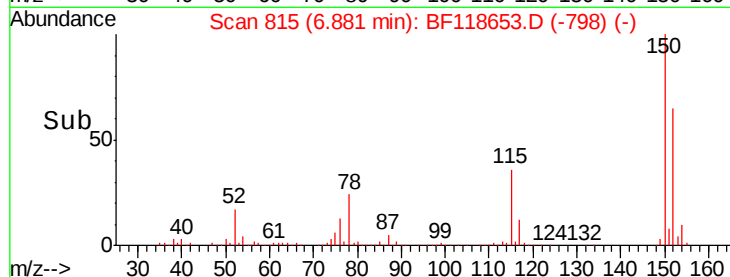
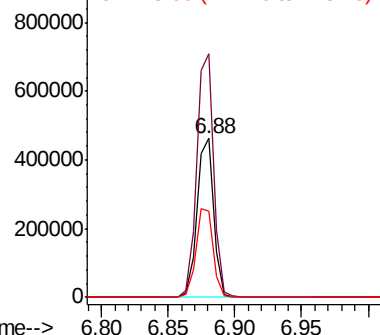
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tgt Ion:152 Resp: 409522
Ion Ratio Lower Upper
152 100
150 153.6 125.6 188.4
115 54.6 48.4 72.6



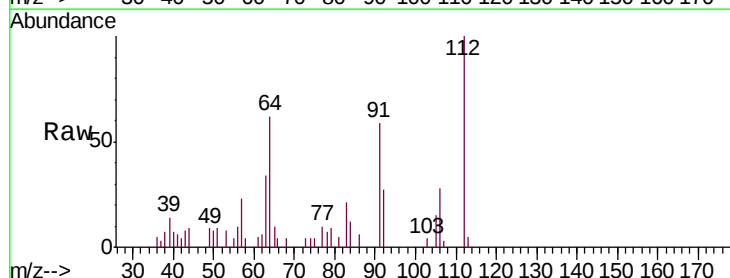
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



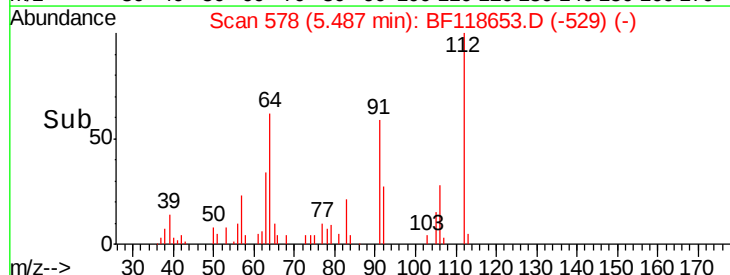
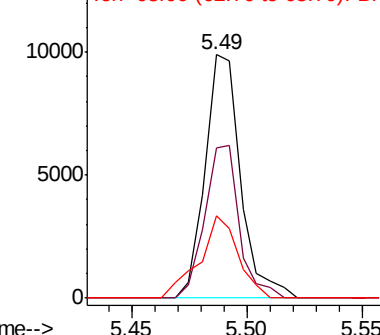
#5

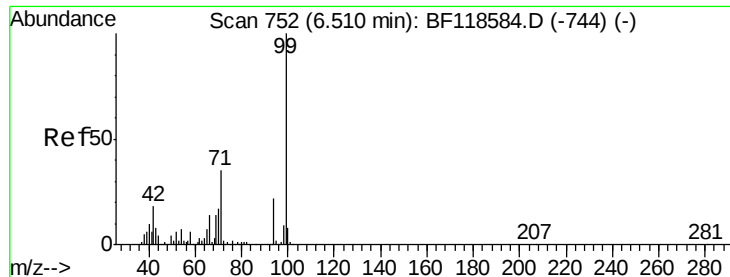
2-Fluorophenol
Concen: 0.482 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion:112 Resp: 10639
Ion Ratio Lower Upper
112 100
64 61.6 46.6 70.0
63 33.7 25.1 37.7



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: 0.543 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

ClientSampleId :

SB-43-(2-4)DL

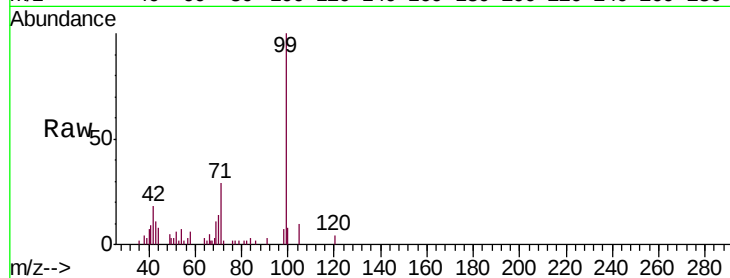
Tgt Ion: 99 Resp: 15569

Ion Ratio Lower Upper

99 100

42 17.6 14.2 21.2

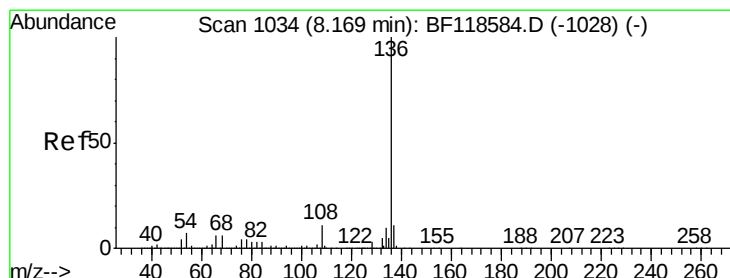
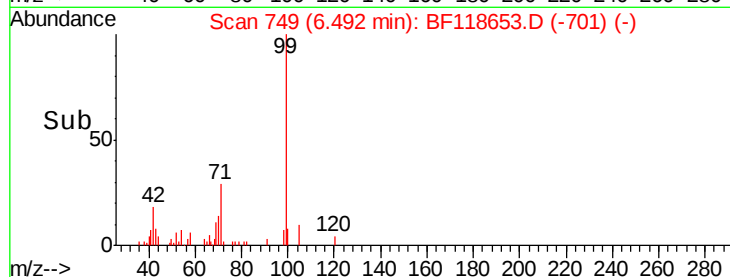
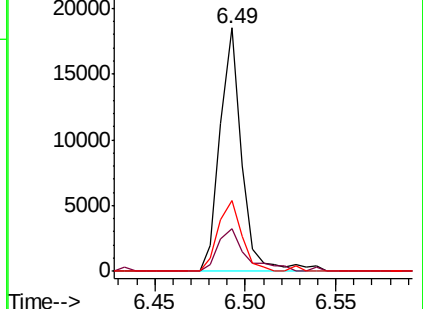
71 29.1 27.8 41.6



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: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Tgt Ion: 136 Resp: 1510792

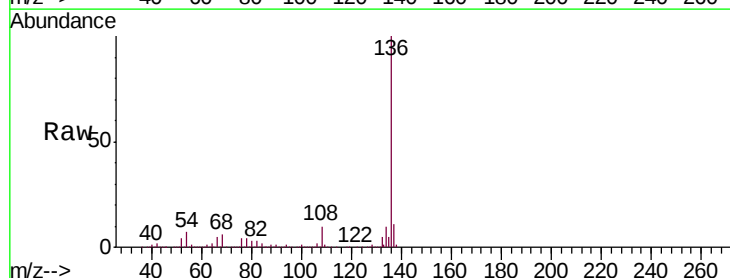
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 7.0 5.8 8.6

68 6.3 5.0 7.4

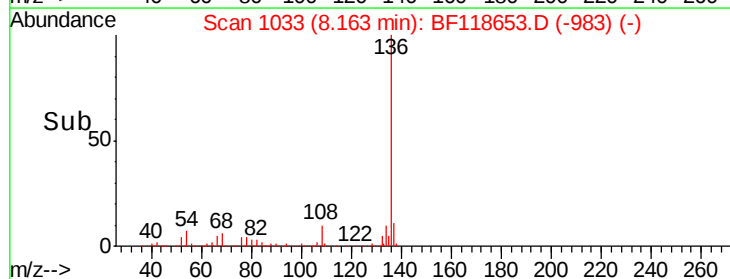
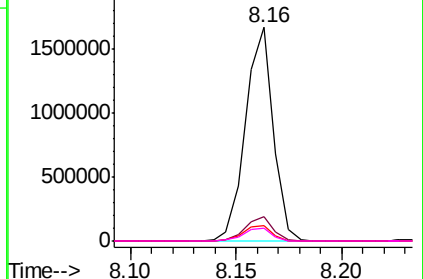


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

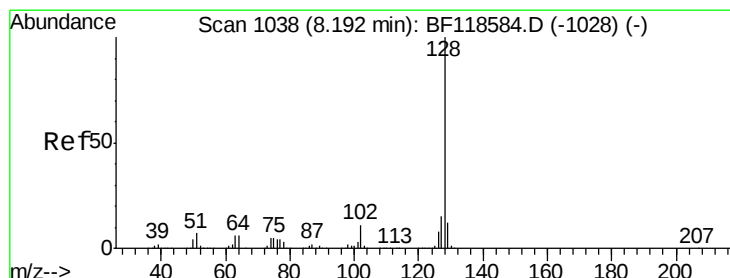
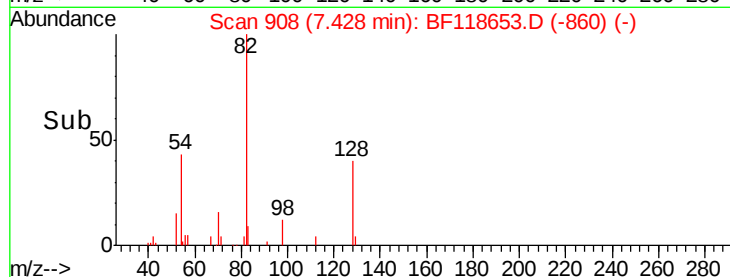
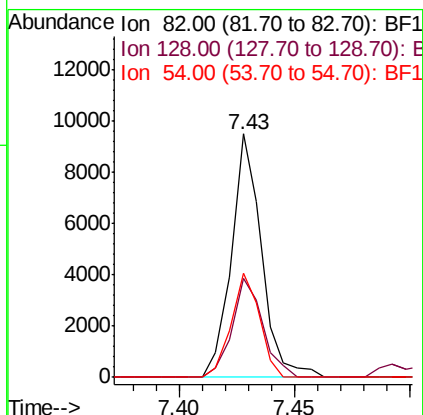
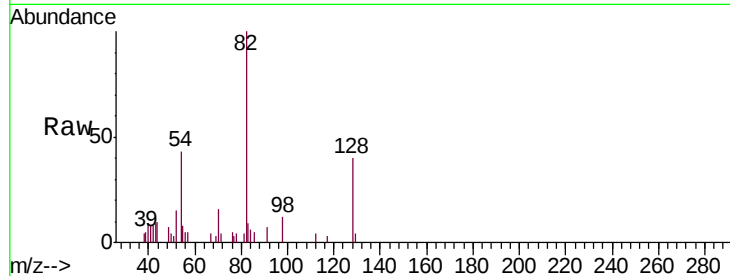




#23
 Nitrobenzene-d5
 Concen: 0.321 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.02 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

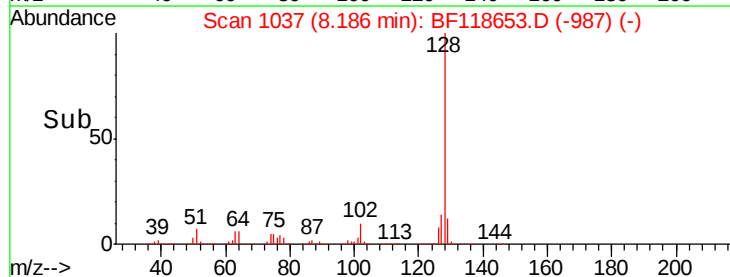
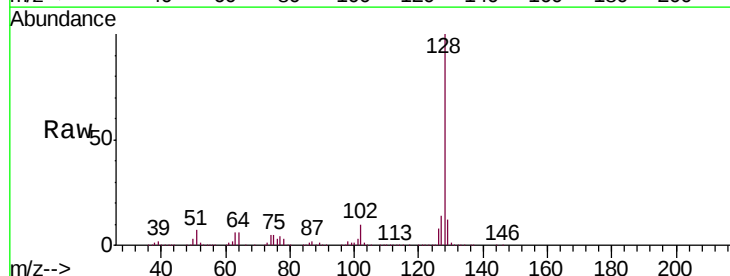
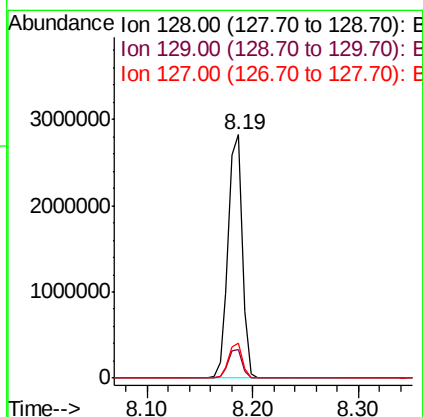
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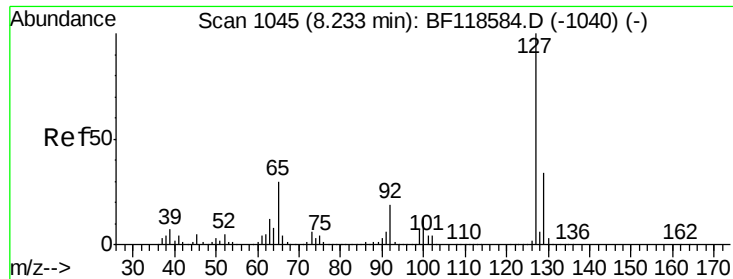
Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.5	36.6	54.8
54	42.9	38.0	57.0



#31
 Naphthalene
 Concen: 38.717 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.9	14.9
127	14.3	12.0	18.0

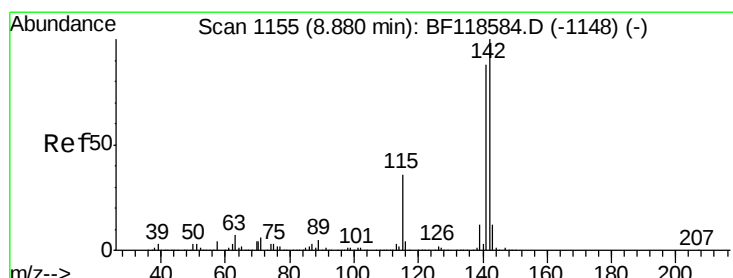
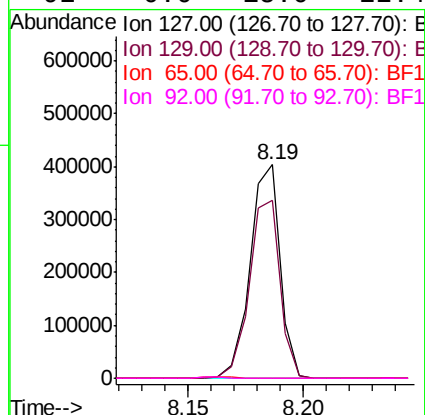
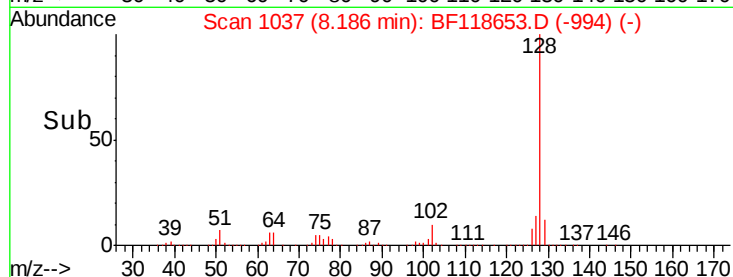
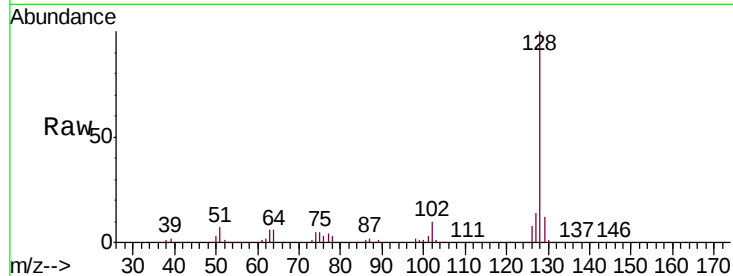




#33
4-Chloroaniline
Concen: 11.633 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.05 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

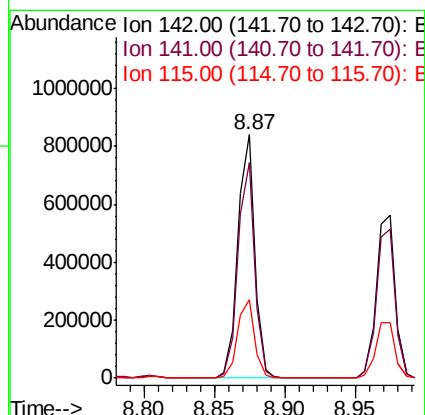
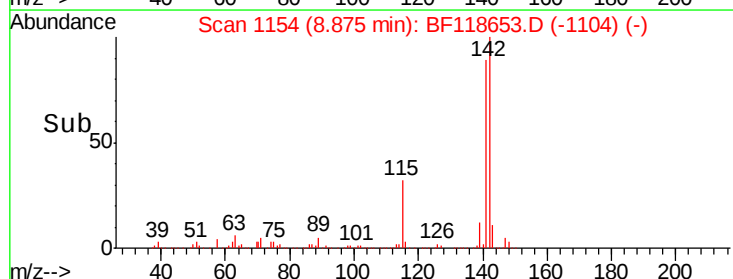
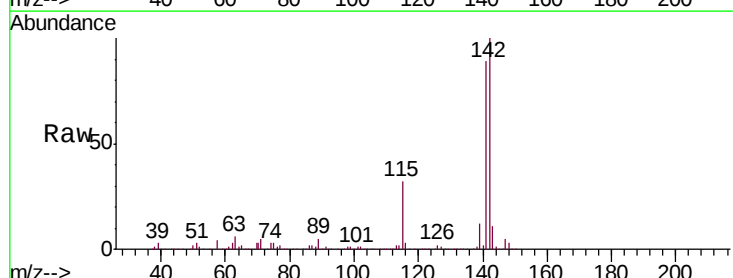
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ClientSampleId :
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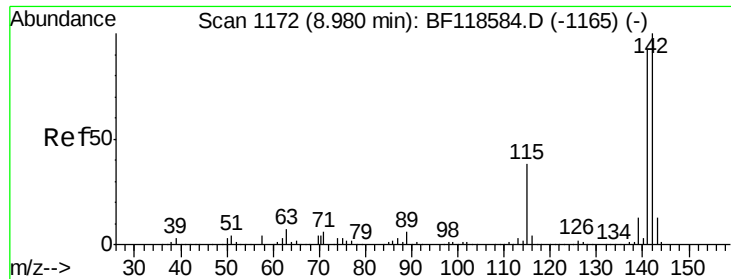
Tgt Ion:	127	Resp:	366954
Ion	Ratio	Lower	Upper
127	100		
129	83.5	27.4	41.0#
65	0.0	23.6	35.4#
92	0.0	15.0	22.4#



#37
2-Methylnaphthalene
Concen: 14.527 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion:	142	Resp:	699800
Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.7	106.1
115	32.4	28.5	42.7

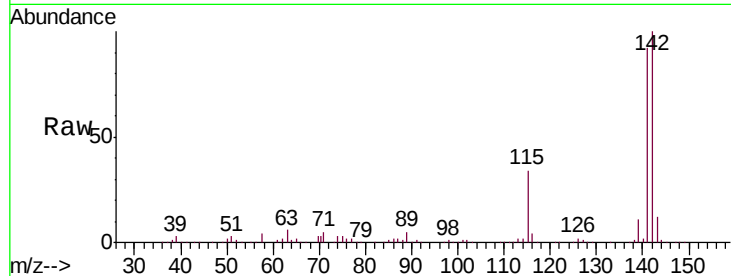




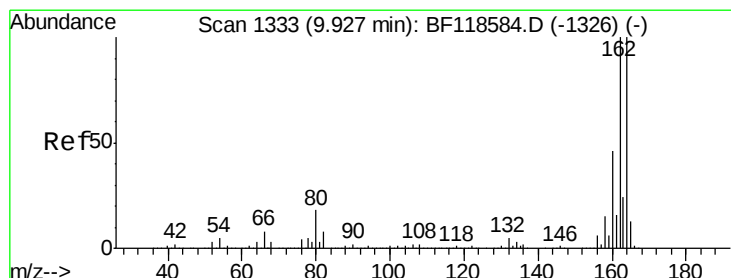
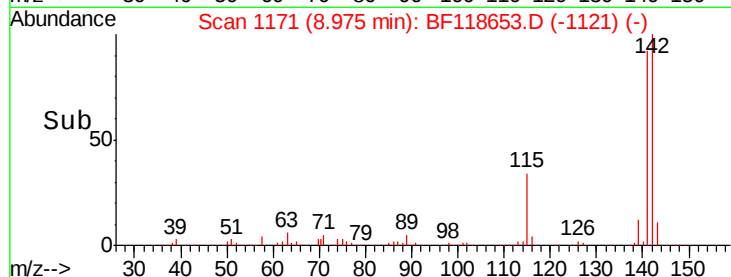
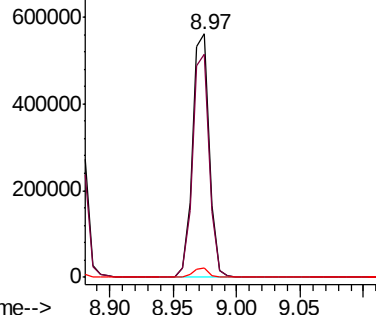
#38
1-Methylnaphthalene
Concen: 11.423 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tgt Ion:142 Resp: 522775
Ion Ratio Lower Upper
142 100
141 91.9 73.4 110.2
116 3.6 3.3 4.9

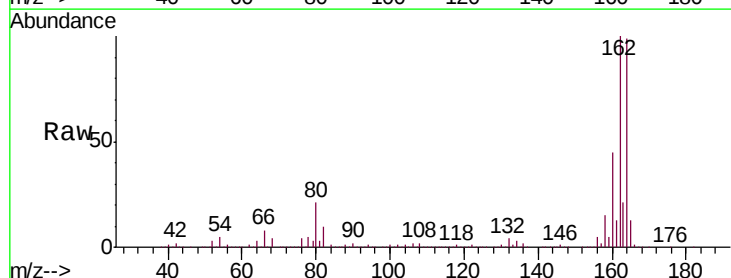


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

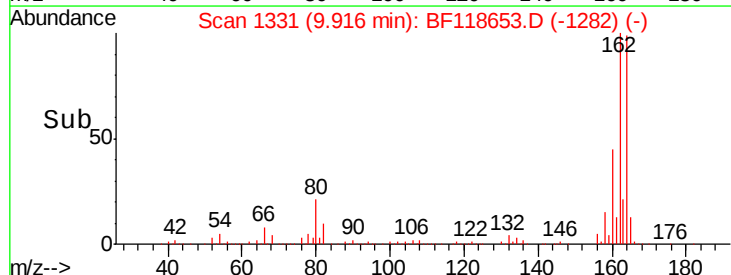
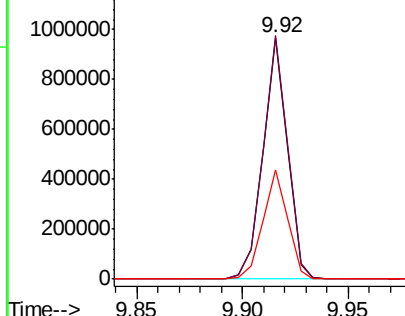


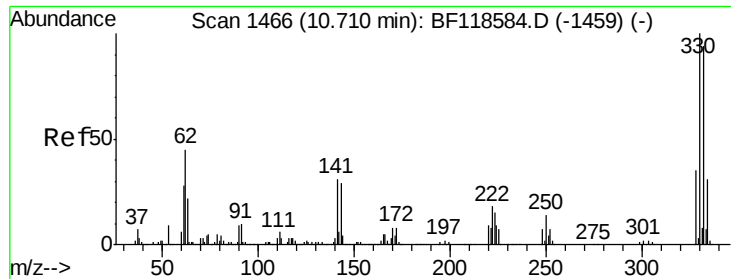
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion:164 Resp: 781964
Ion Ratio Lower Upper
164 100
162 100.9 80.4 120.6
160 45.5 36.6 55.0



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

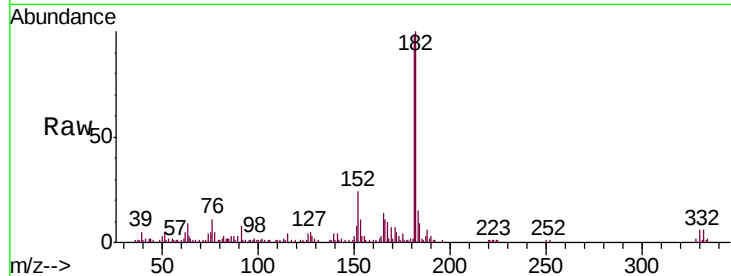




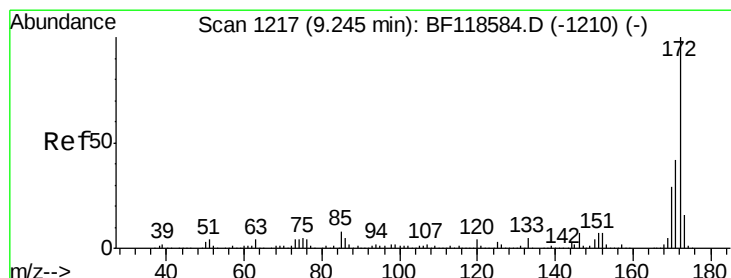
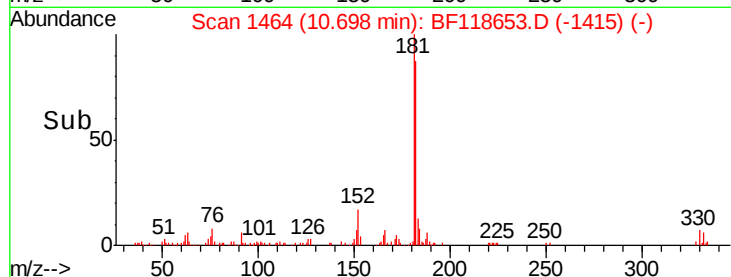
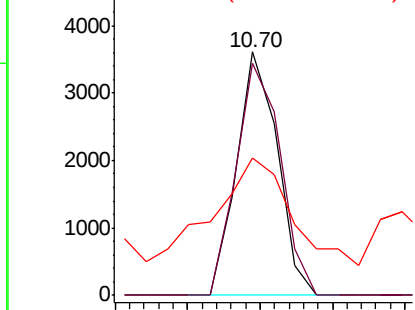
#42
 2,4,6-Tribromophenol
 Concen: 0.314 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Instrument :
 BNA_F
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 SB-43-(2-4)DL

Tgt Ion:330 Resp: 2843
 Ion Ratio Lower Upper
 330 100
 332 103.7 76.2 114.4
 141 82.6 23.9 35.9#

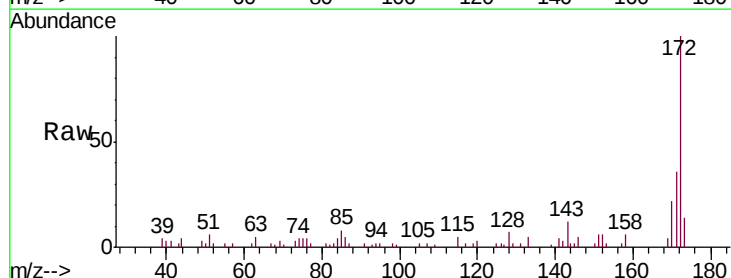


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

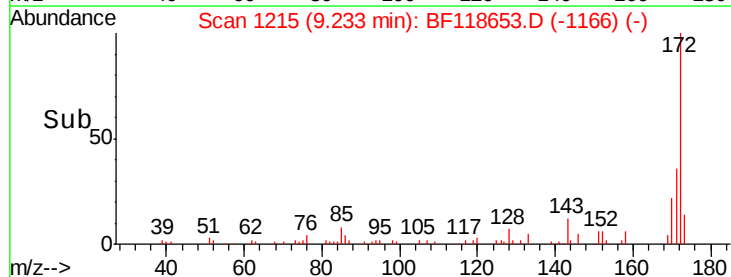
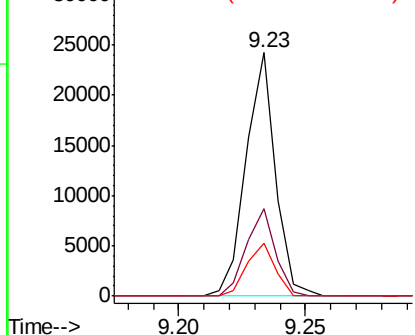


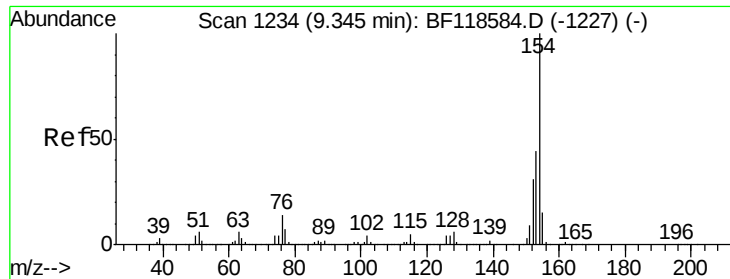
#45
 2-Fluorobiphenyl
 Concen: 0.411 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Tgt Ion:172 Resp: 19576
 Ion Ratio Lower Upper
 172 100
 171 35.8 33.4 50.2
 170 21.9 23.2 34.8#



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

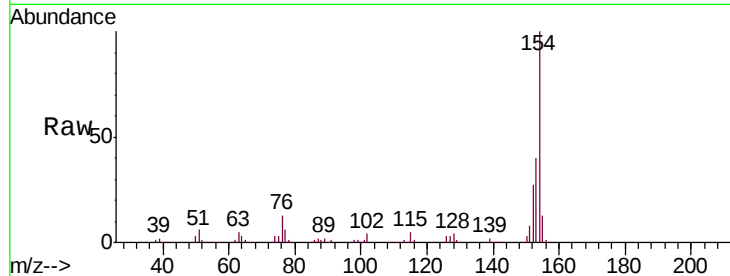




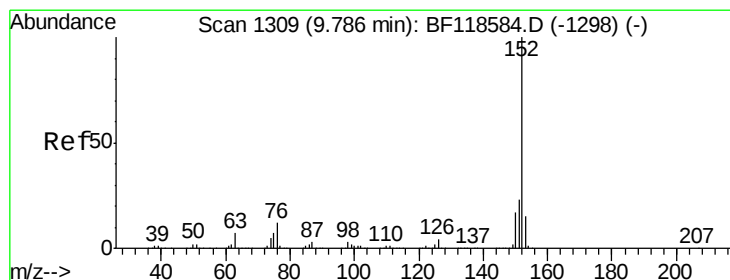
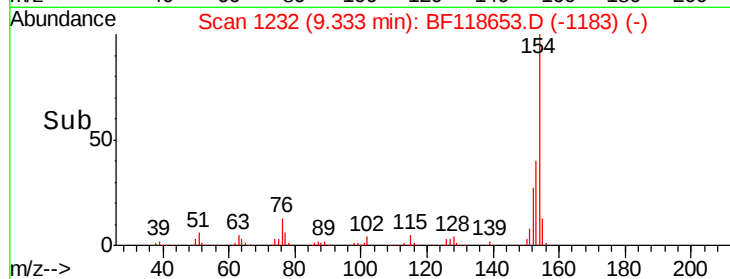
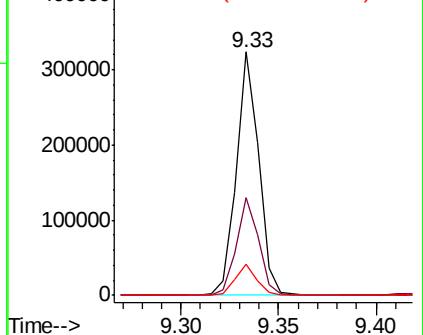
#46
 1,1'-Biphenyl
 Concen: 4.773 ng
 RT: 9.33 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-43-(2-4)DL

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.2	23.8	63.8
76	12.9	0.0	34.3

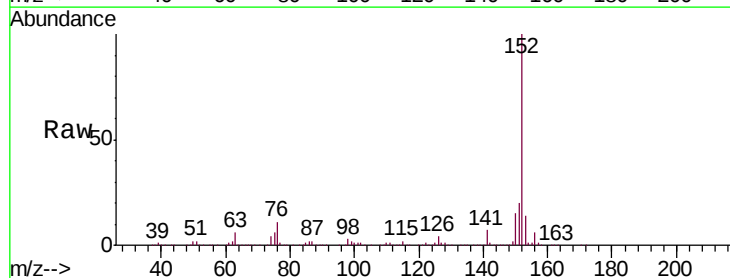


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

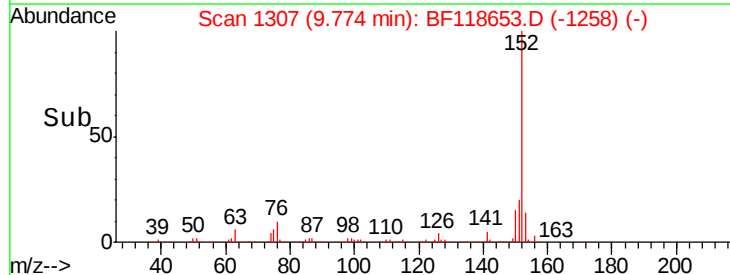
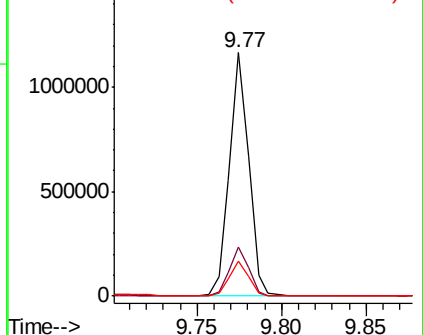


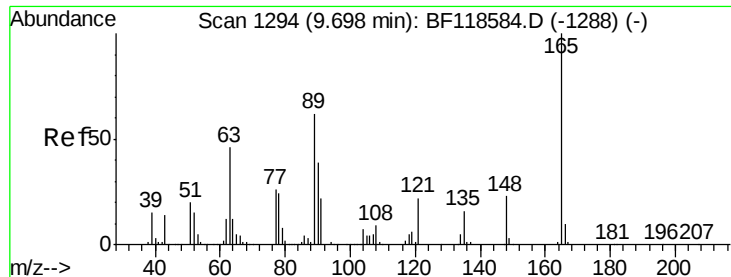
#49
 Acenaphthylene
 Concen: 14.478 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	18.6	27.8
153	14.2	12.2	18.4



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

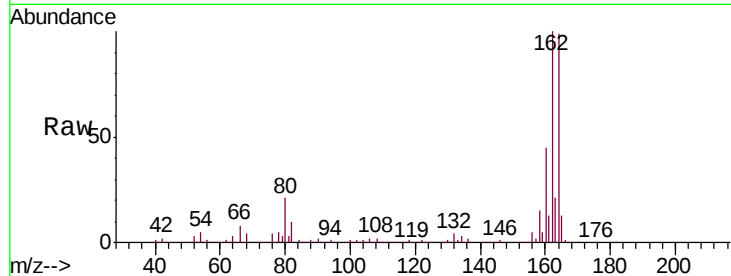




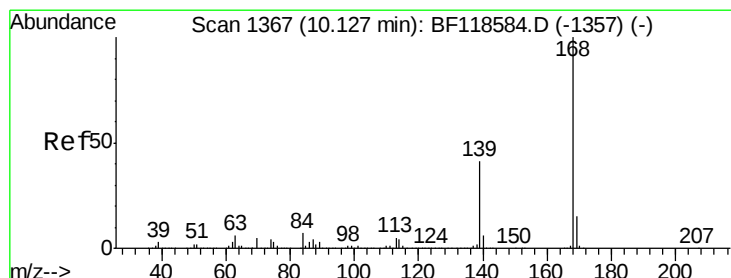
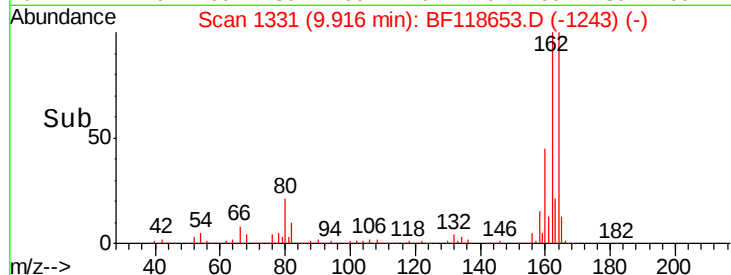
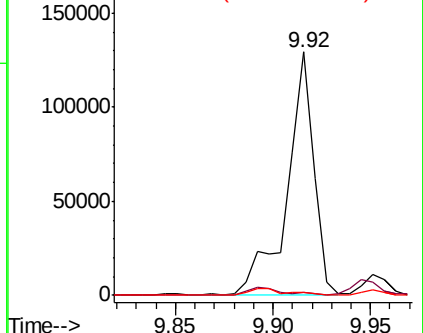
#51
2,6-Dinitrotoluene
Concen: 10.904 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.22 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	48.9	73.3#
89	1.4	49.8	74.6#

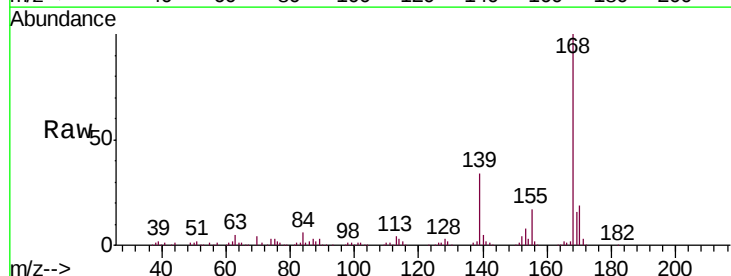


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

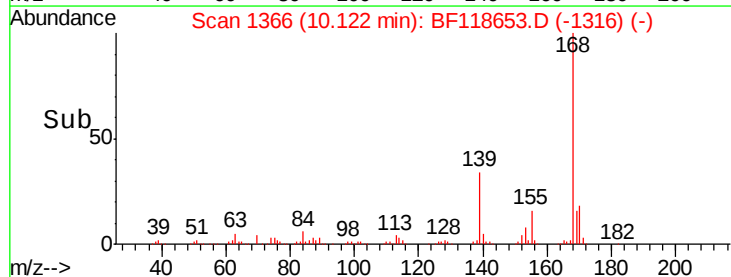
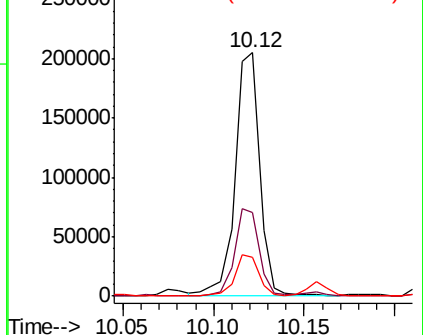


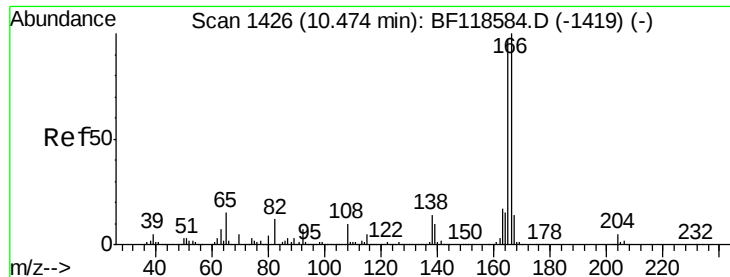
#55
Dibenzofuran
Concen: 3.237 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.3	32.7	49.1
169	15.8	12.2	18.2



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

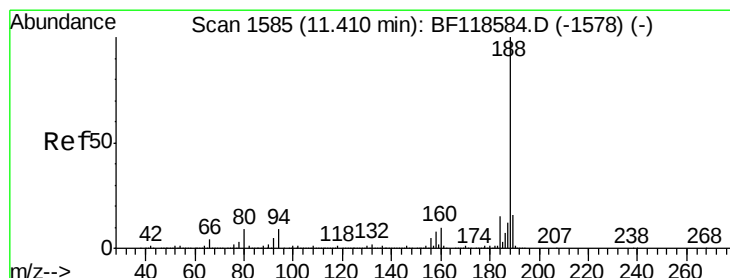
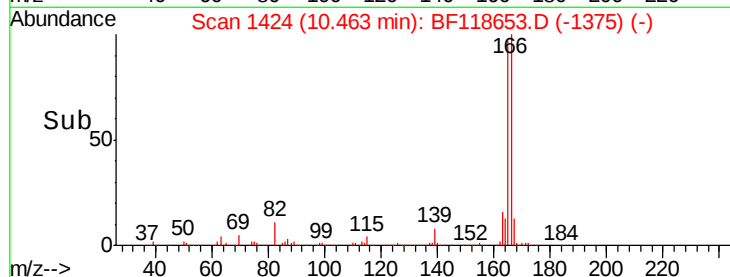
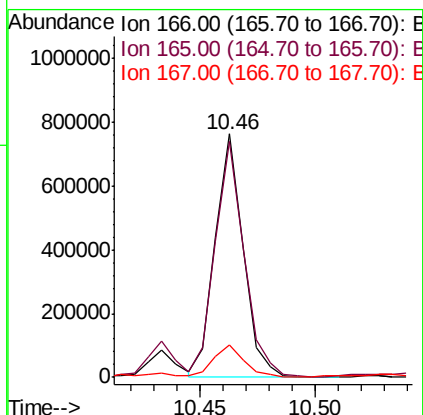
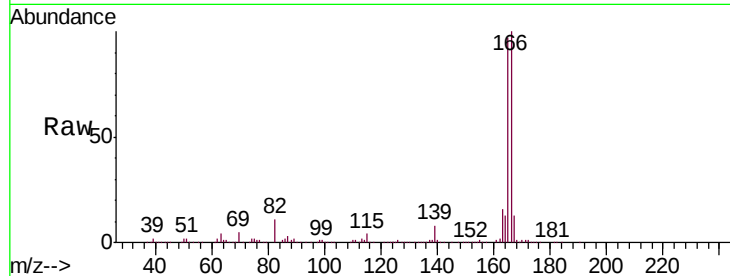




#58
 Fluorene
 Concen: 13.743 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

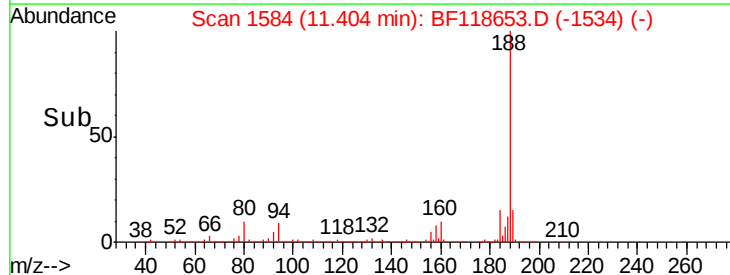
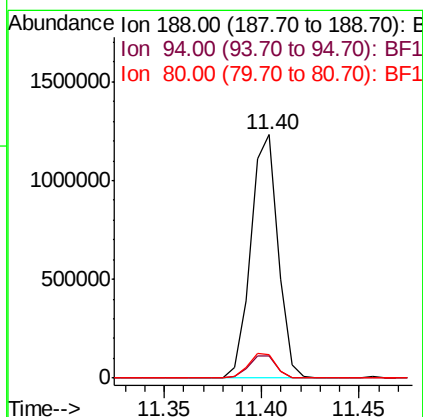
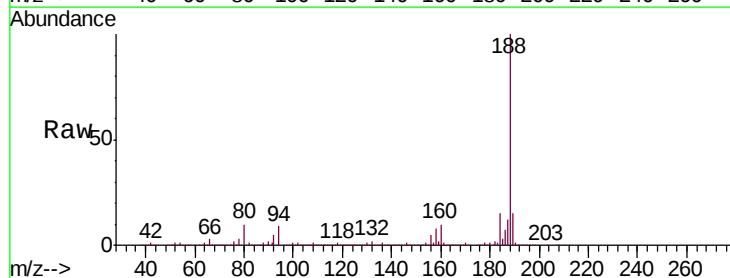
Instrument :
 BNA_F
 ClientSampleId :
 SB-43-(2-4)DL

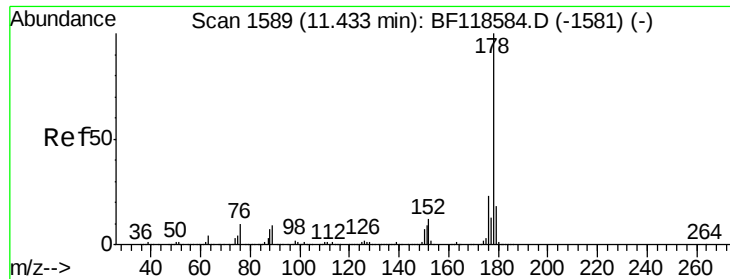
Tgt Ion:166 Resp: 638910
 Ion Ratio Lower Upper
 166 100
 165 96.9 77.3 115.9
 167 13.4 11.5 17.3



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Tgt Ion:188 Resp: 1193145
 Ion Ratio Lower Upper
 188 100
 94 9.0 7.1 10.7
 80 9.6 7.5 11.3





#71

Phenanthrene

Concen: 55.838 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

ClientSampleId :

SB-43-(2-4)DL

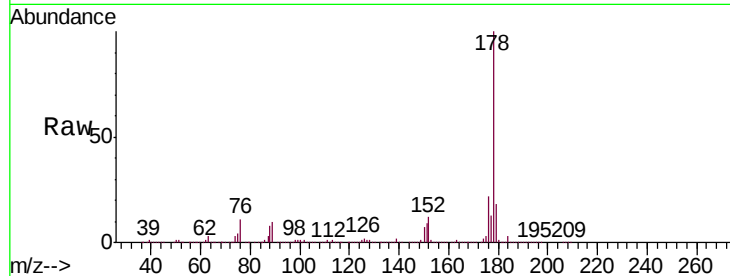
Tgt Ion:178 Resp: 3214158

Ion Ratio Lower Upper

178 100

176 21.9 18.6 27.8

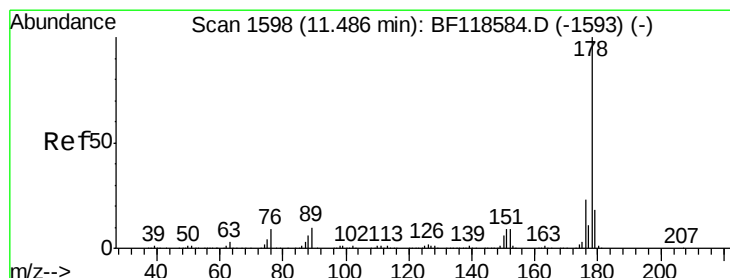
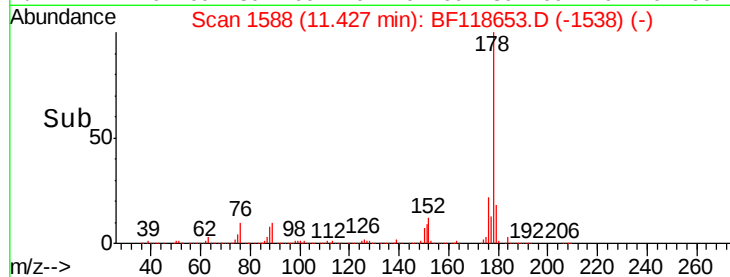
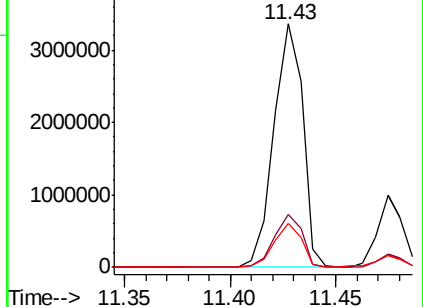
179 17.8 14.7 22.1



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: 14.140 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

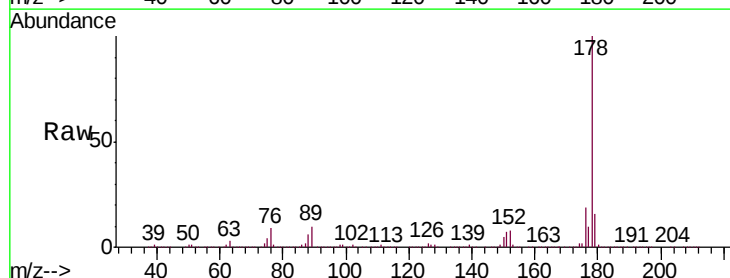
Tgt Ion:178 Resp: 805392

Ion Ratio Lower Upper

178 100

176 18.9 18.0 27.0

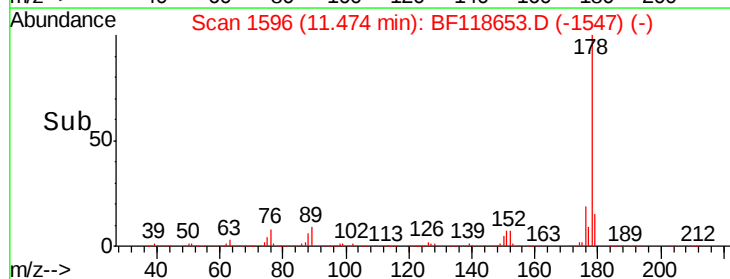
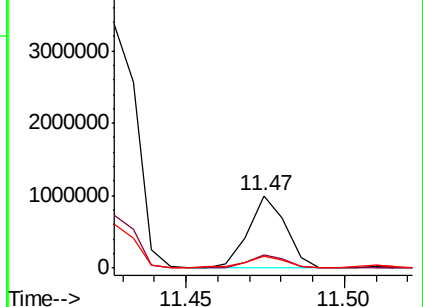
179 15.8 14.7 22.1

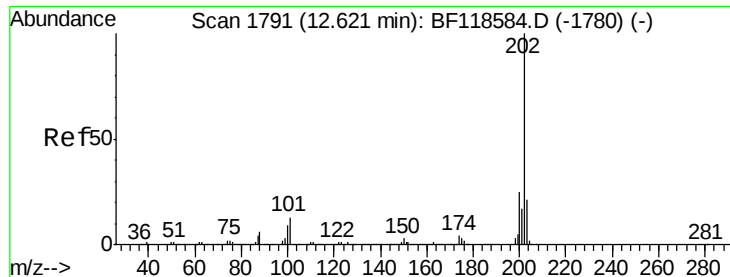


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 26.260 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

ClientSampleId :

SB-43-(2-4)DL

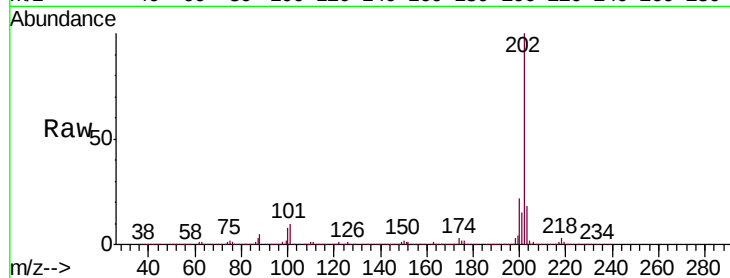
Tgt Ion:202 Resp: 1594285

Ion Ratio Lower Upper

202 100

101 10.2 0.0 32.5

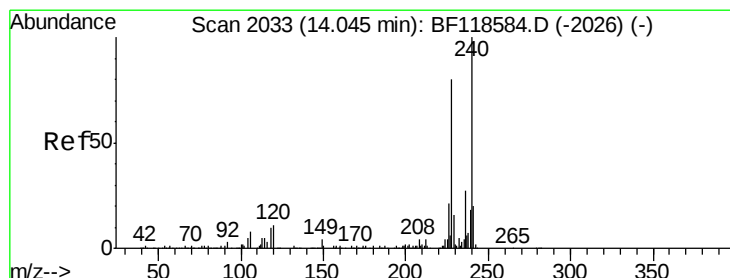
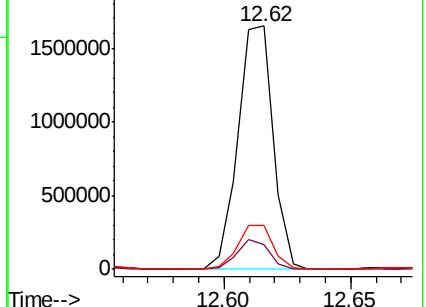
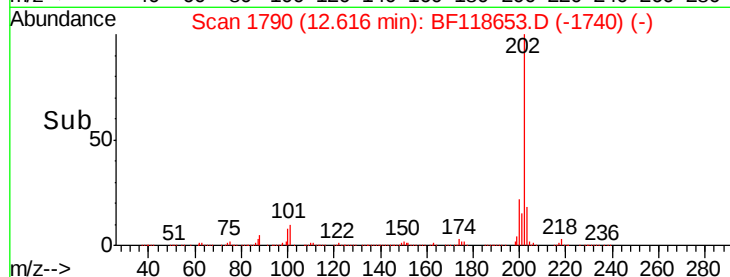
203 18.2 0.8 40.8



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: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

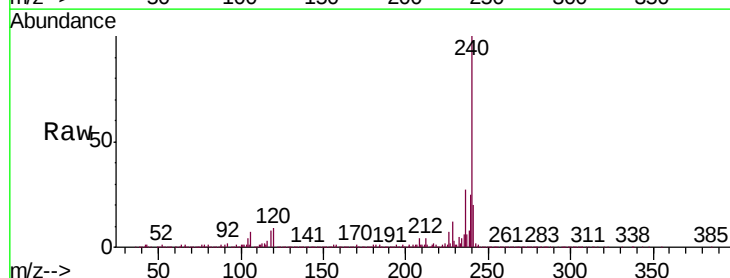
Tgt Ion:240 Resp: 941667

Ion Ratio Lower Upper

240 100

120 9.3 8.9 13.3

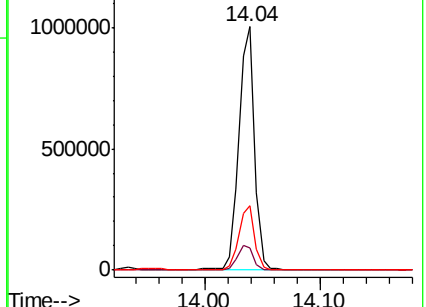
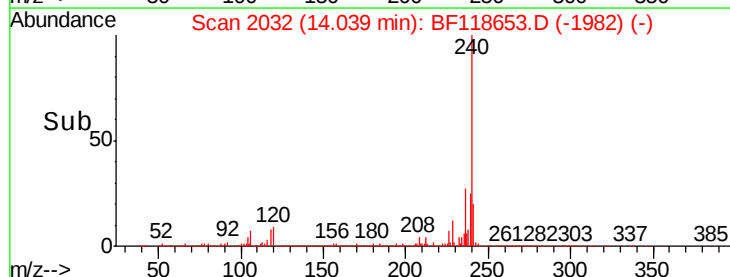
236 26.7 21.5 32.3

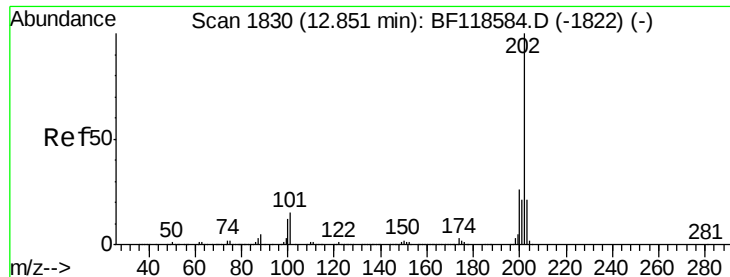


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



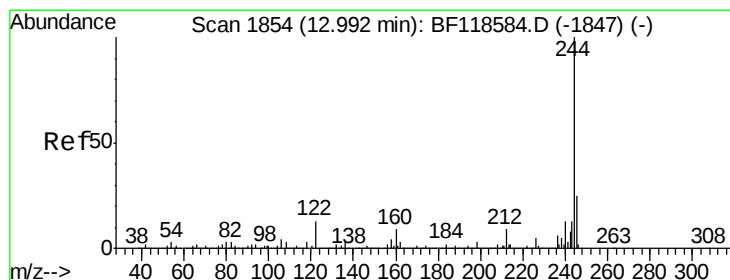
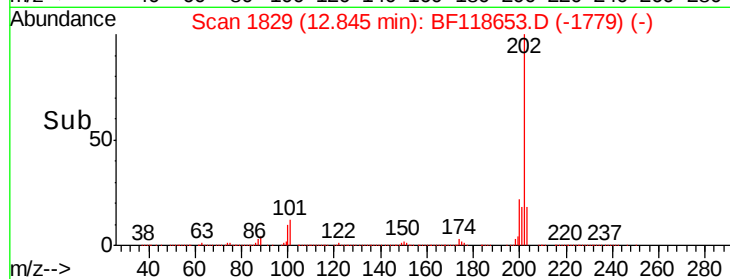
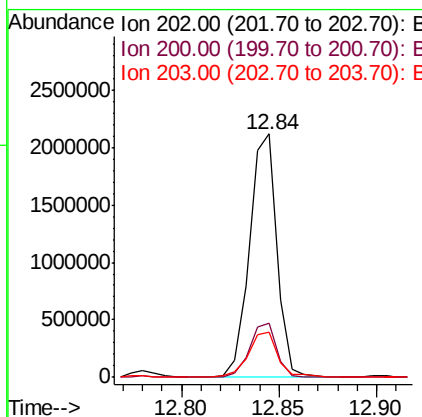
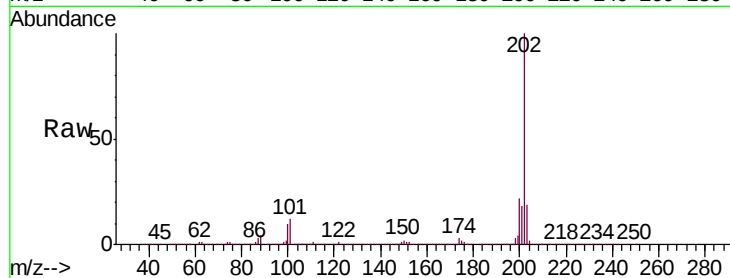


#78
 Pyrene
 Concen: 32.094 ng
 RT: 12.84 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Instrument :
 BNA_F
 ClientSampleID :
 SB-43-(2-4)DL

Tgt Ion:202 Resp: 2051769

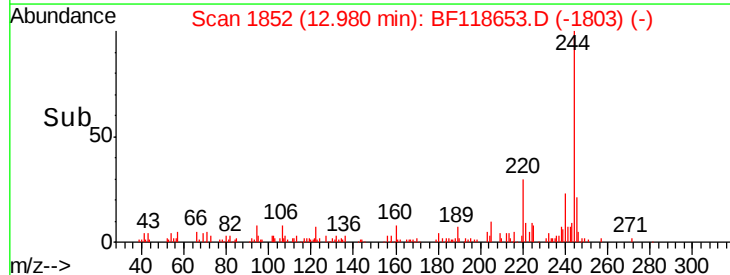
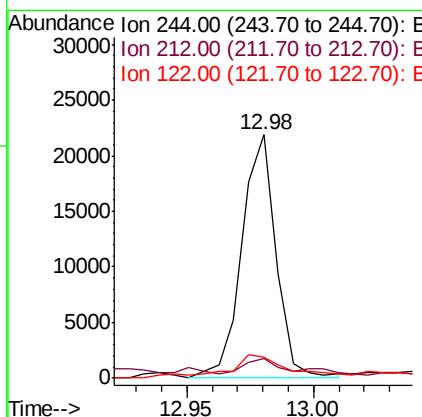
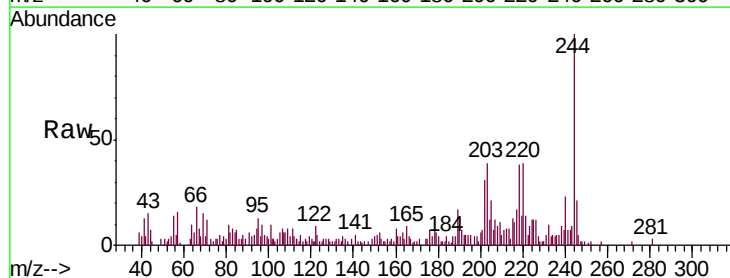
Ion	Ratio	Lower	Upper
202	100		
200	22.2	20.6	31.0
203	18.6	16.8	25.2

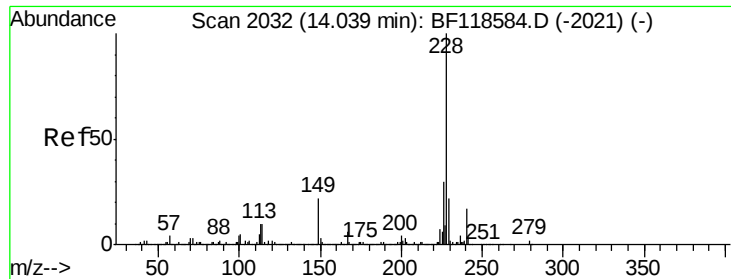


#79
 Terphenyl-d14
 Concen: 0.477 ng
 RT: 12.98 min Scan# 1852
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Tgt Ion:244 Resp: 20615

Ion	Ratio	Lower	Upper
244	100		
212	8.0	7.0	10.4
122	8.5	10.7	16.1#

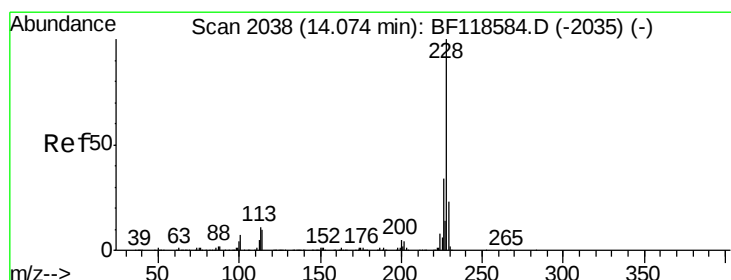
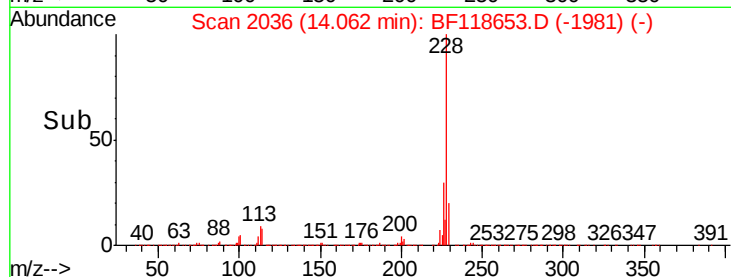
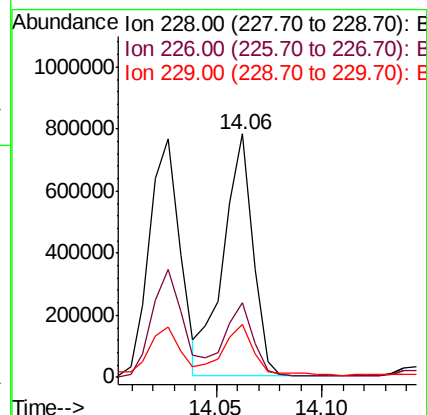
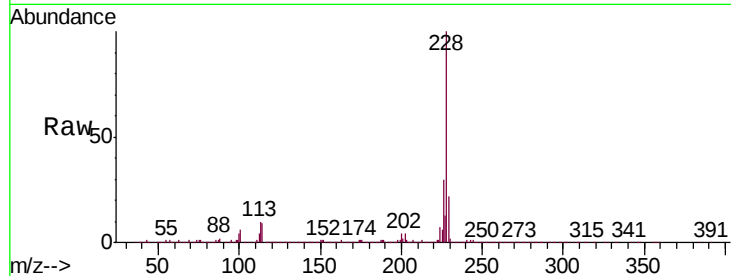




#81
Benzo(a)anthracene
Concen: 13.379 ng
RT: 14.06 min Scan# 2036
Delta R.T. 0.02 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

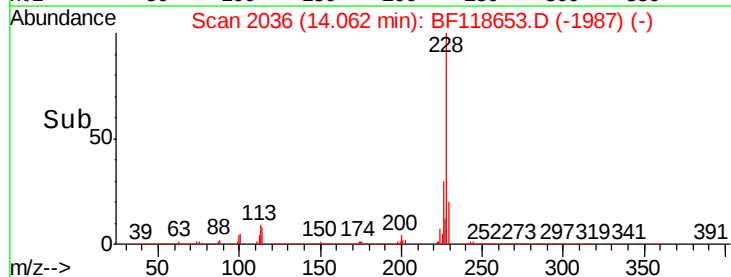
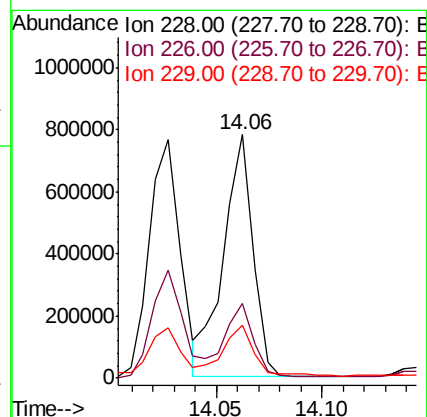
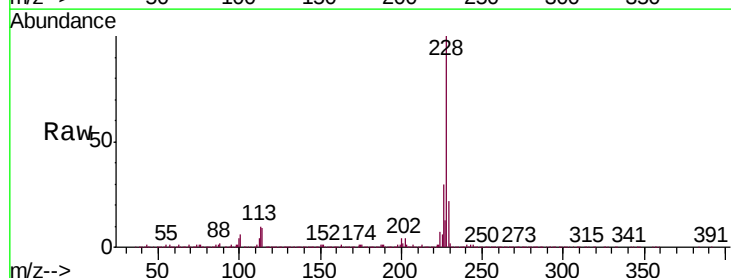
Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

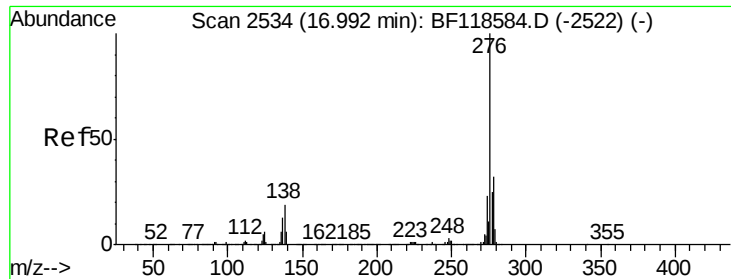
Tgt Ion:228 Resp: 757858
Ion Ratio Lower Upper
228 100
226 30.4 24.1 36.1
229 21.7 17.6 26.4



#83
Chrysene
Concen: 13.959 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion:228 Resp: 757858
Ion Ratio Lower Upper
228 100
226 30.4 27.4 41.0
229 21.7 18.3 27.5

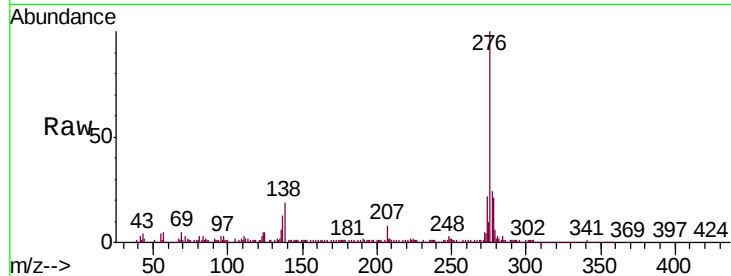




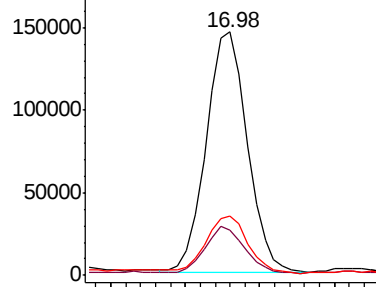
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.871 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-43-(2-4)DL

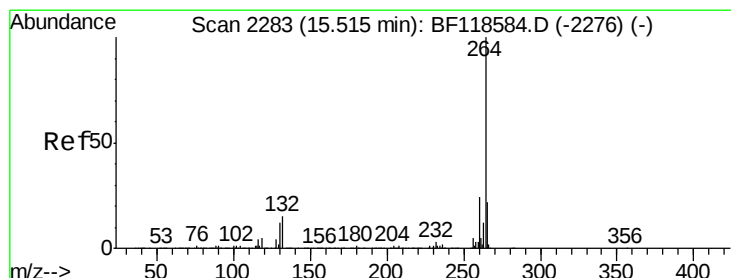
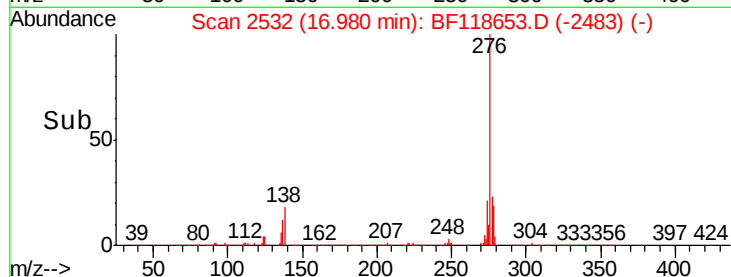
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.1	17.2	25.8
277	24.6	20.5	30.7



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

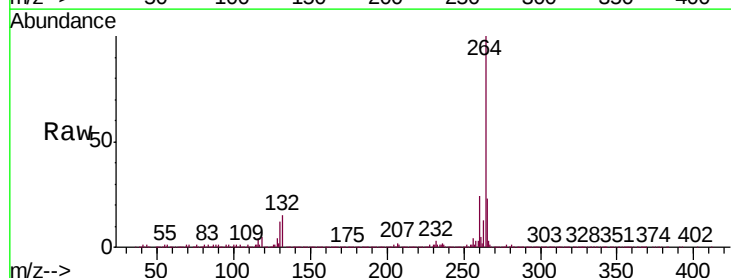


Time-->

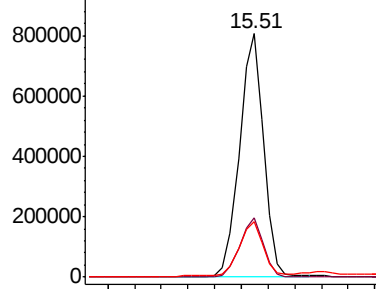


#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

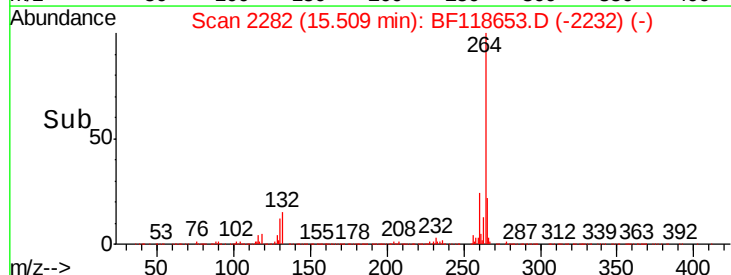
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	22.7	17.7	26.5

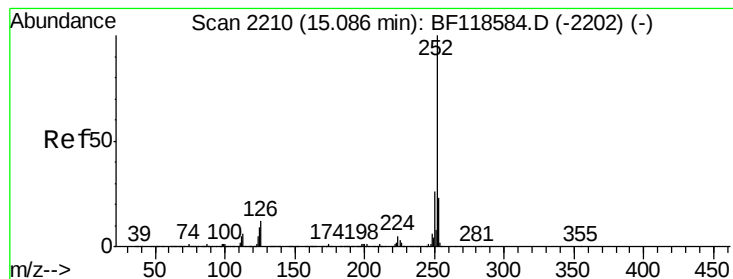


Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E



Time-->





#88

Benzo(b)fluoranthene

Concen: 14.600 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

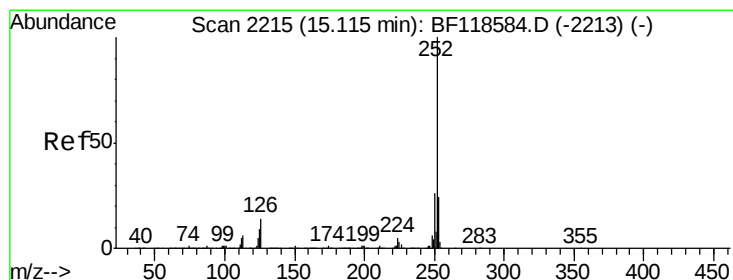
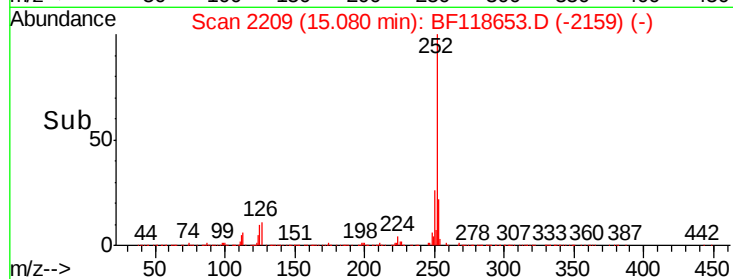
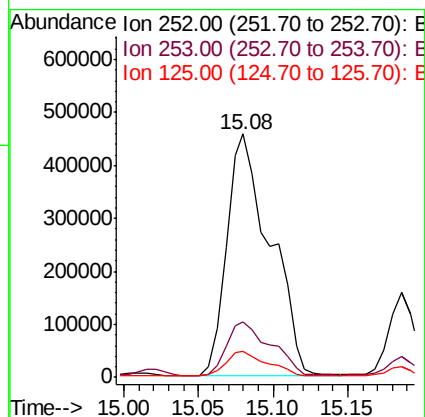
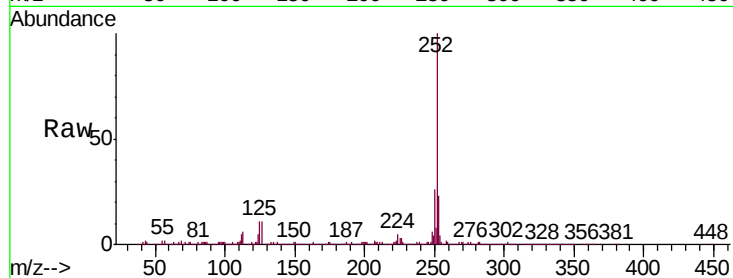
Instrument :

BNA_F

ClientSampleId :

SB-43-(2-4)DL

Tgt Ion:	252	Resp:	927633
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.7	28.1
125	10.5	7.3	10.9



#89

Benzo(k)fluoranthene

Concen: 15.759 ng

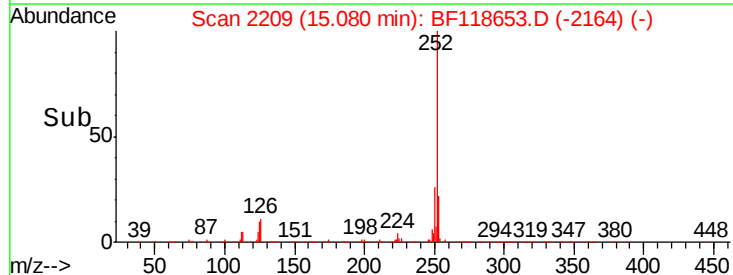
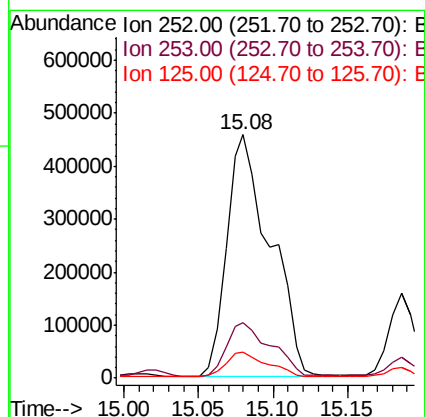
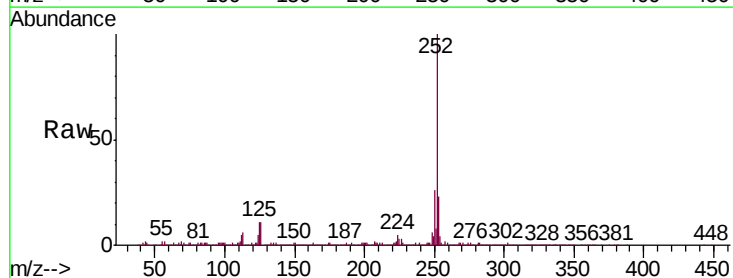
RT: 15.08 min Scan# 2209

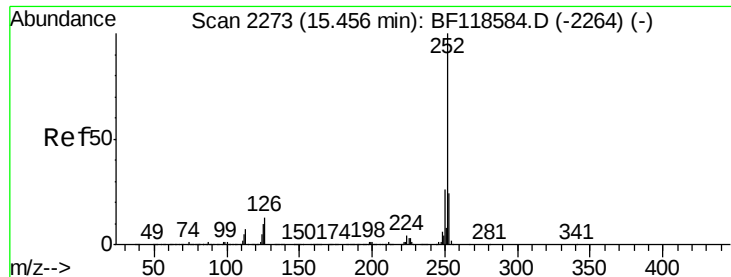
Delta R.T. -0.04 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Tgt Ion:	252	Resp:	927633
Ion Ratio	Lower	Upper	
252	100		
253	22.8	19.0	28.4
125	10.5	7.6	11.4





#90

Benzo(a)pyrene

Concen: 13.293 ng

RT: 15.44 min Scan# 2271

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

ClientSampleId :

SB-43-(2-4)DL

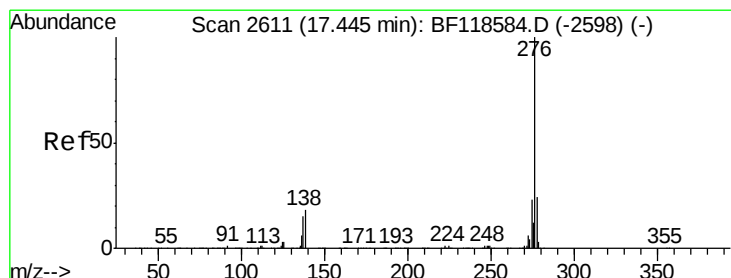
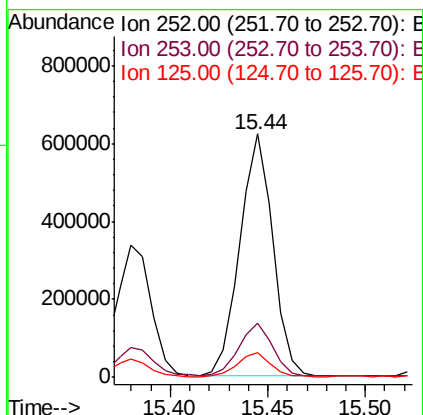
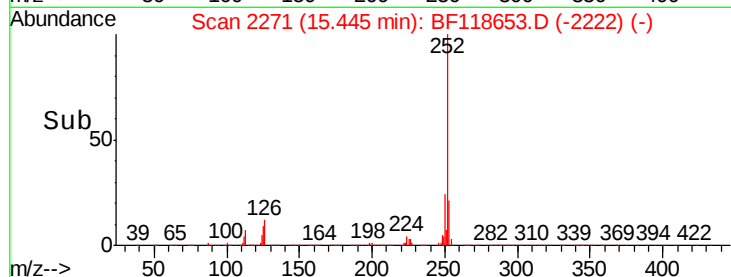
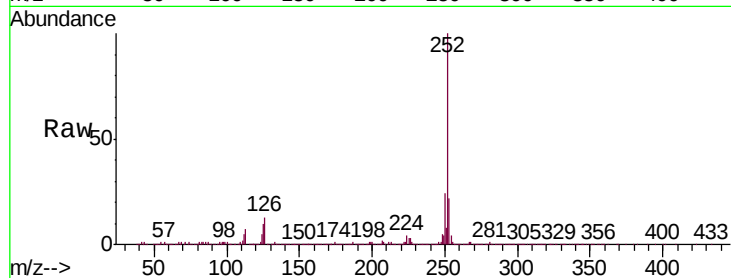
Tgt Ion:252 Resp: 728546

Ion Ratio Lower Upper

252 100

253 22.0 18.8 28.2

125 9.9 7.8 11.6



#92

Benzo(g,h,i)perylene

Concen: 6.424 ng

RT: 17.42 min Scan# 2607

Delta R.T. -0.02 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Tgt Ion:276 Resp: 302380

Ion Ratio Lower Upper

276 100

277 25.0 18.9 28.3

138 19.6 14.4 21.6

