

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
 Data File : BF120043.D
 Acq On : 16 Apr 2020 18:26
 Operator : MA/SJ
 Sample : L2245-14 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-23A

Quant Time: Apr 17 01:26:17 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 16 10:48:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	151539	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	540099	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	240639	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	373815	20.00	ng	0.00
76) Chrysene-d12	13.90	240	255706	20.00	ng	0.00
87) Perylene-d12	15.33	264	223394	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.33	112	318457	36.32	ng	0.00
7) Phenol-d6	6.36	99	403959	35.75	ng	0.00
23) Nitrobenzene-d5	7.29	82	247729	23.73	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	67083	22.77	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	480028	28.32	ng	0.00
79) Terphenyl-d14	12.84	244	376173	24.75	ng	-0.01

Target Compounds

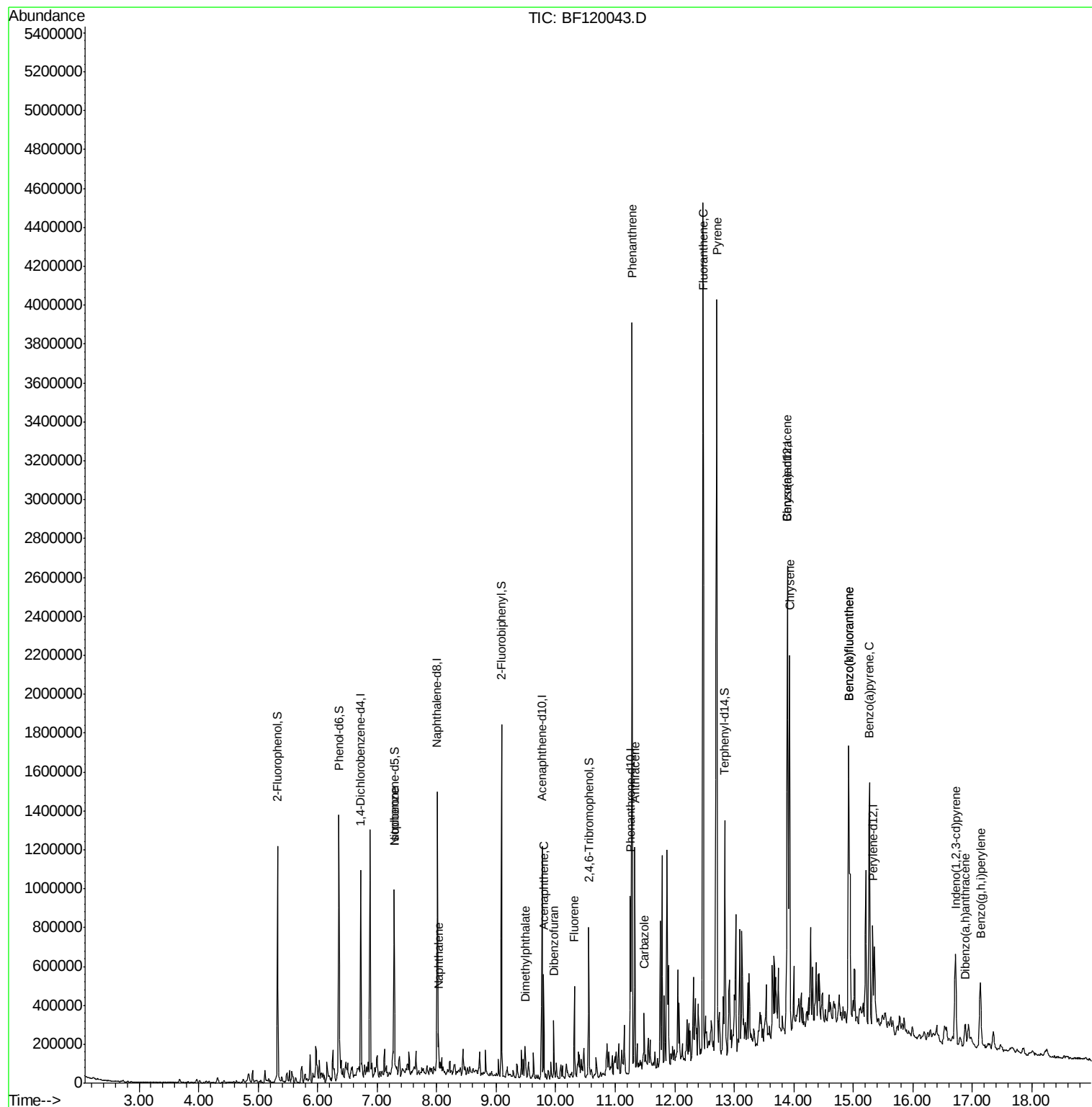
						Qvalue
9) Benzaldehyde	6.27	77	1910	Below Cal	#	65
25) Isophorone	7.29	82	242985	12.074 ng	#	66
31) Naphthalene	8.03	128	74333	2.616 ng	#	100
50) Dimethylphthalate	9.49	163	59726	3.209 ng	#	97
52) Acenaphthene	9.80	154	98315	6.194 ng		98
55) Dibenzofuran	9.97	168	78308	3.595 ng		98
58) Fluorene	10.32	166	134155	7.701 ng		100
71) Phenanthrene	11.28	178	1518702	76.336 ng		98
72) Anthracene	11.33	178	410834	20.215 ng		97
73) Carbazole	11.49	167	106064	5.519 ng		99
75) Fluoranthene	12.47	202	1863493	86.810 ng		99
78) Pyrene	12.70	202	1724908	80.018 ng		99
81) Benzo(a)anthracene	13.89	228	917783	54.559 ng		97
83) Chrysene	13.93	228	802699	46.962 ng		98
86) Indeno(1,2,3-cd)pyrene	16.72	276	298981	19.843 ng		98
88) Benzo(b)fluoranthene	14.92	252	1067288	66.413 ng		97
89) Benzo(k)fluoranthene	14.92	252	1067288	76.972 ng		98
90) Benzo(a)pyrene	15.27	252	576888	42.695 ng		98
91) Dibenz(a,h)anthracene	16.88	278	71599	5.982 ng		96
92) Benzo(a,h,i)perylene	17.13	276	265570	22.478 ng		95

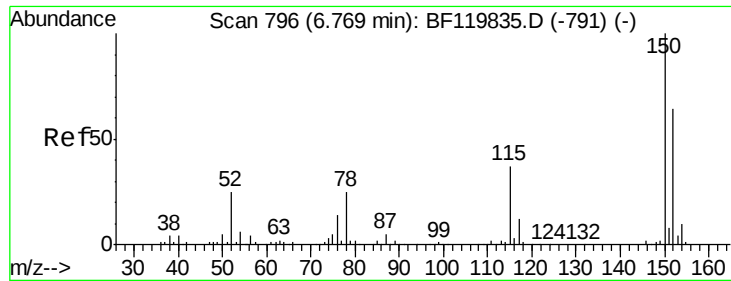
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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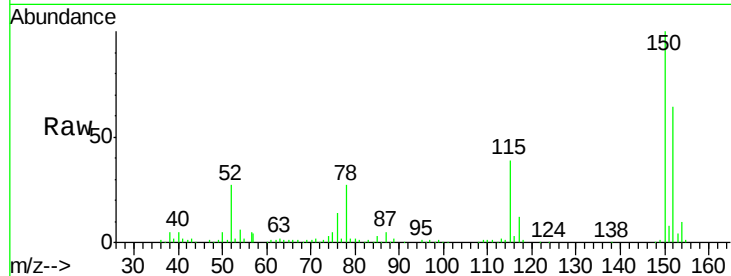


#1

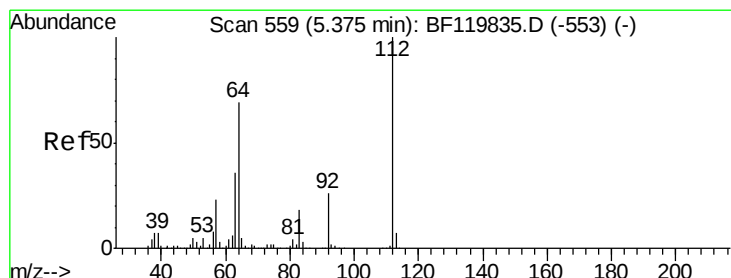
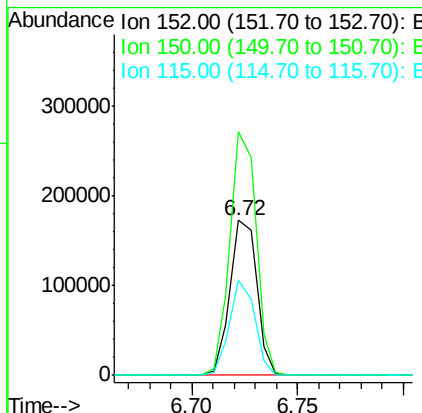
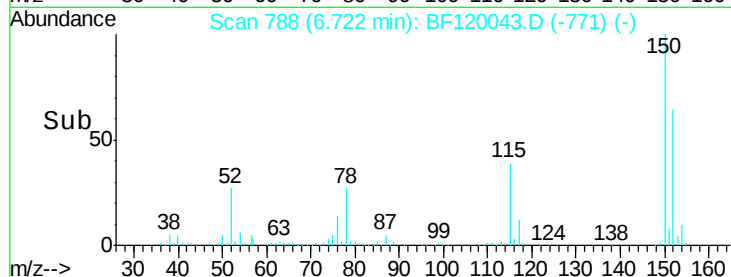
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Instrument :
 BNA_F
 ClientSampleId :
 TP-23A

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.8	187.2
115	61.0	46.5	69.7



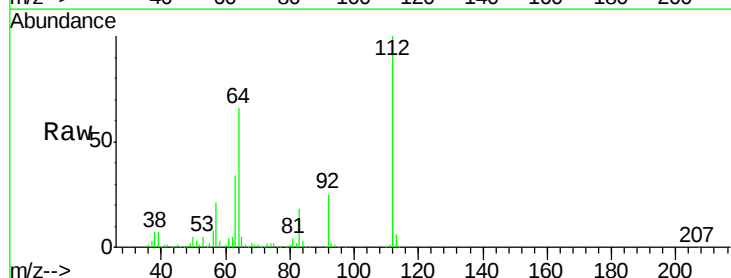
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



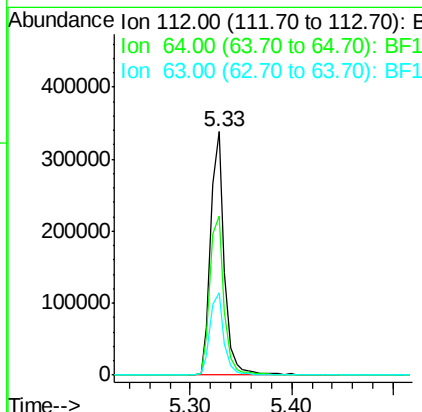
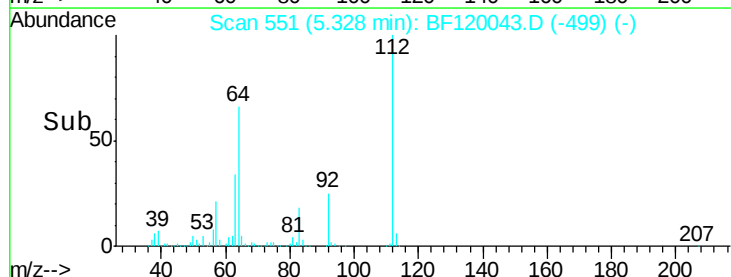
#5

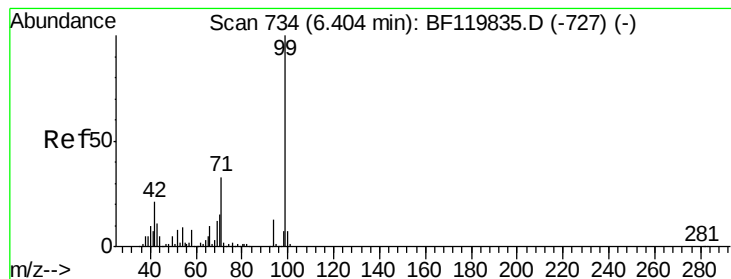
2-Fluorophenol
 Concen: 36.318 ng
 RT: 5.33 min Scan# 551
 Delta R.T. 0.01 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	55.5	83.3
63	33.8	29.1	43.7



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: 35.752 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

BNA_F

ClientSampleId :

TP-23A

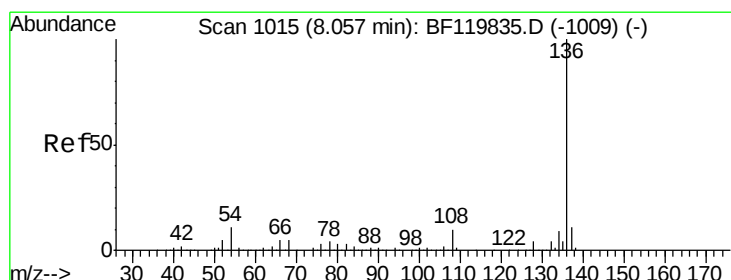
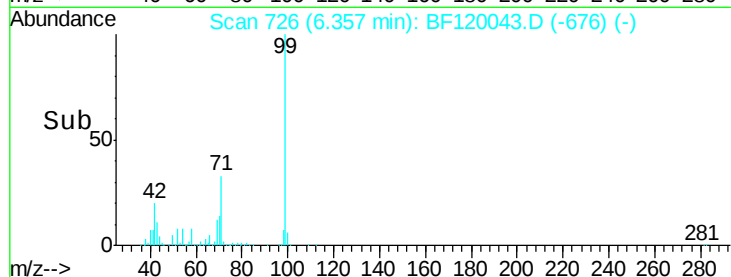
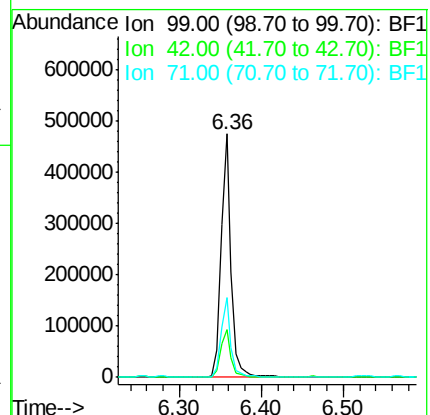
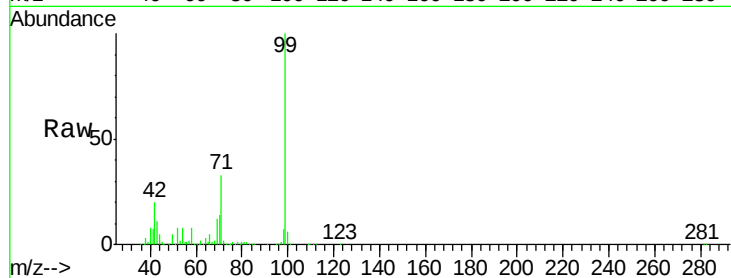
Tot Ion: 99 Resp: 403959

Ion Ratio Lower Upper

99 100

42 19.9 16.9 25.3

71 32.7 26.3 39.5



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Tgt Ion: 136 Resp: 540099

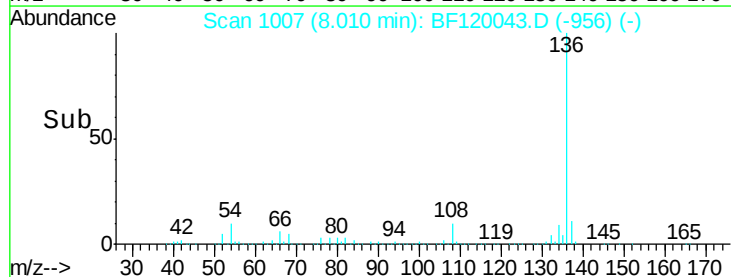
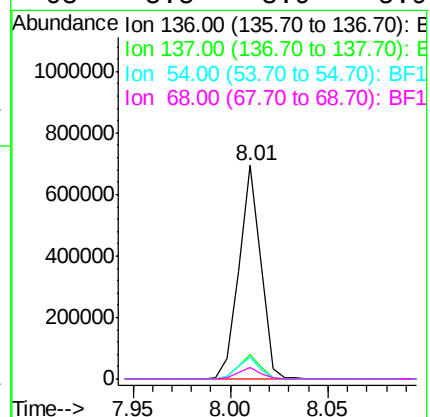
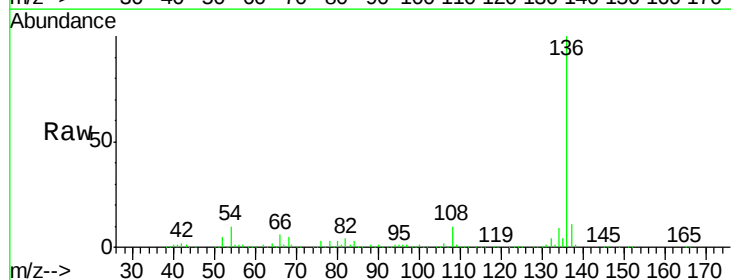
Ion Ratio Lower Upper

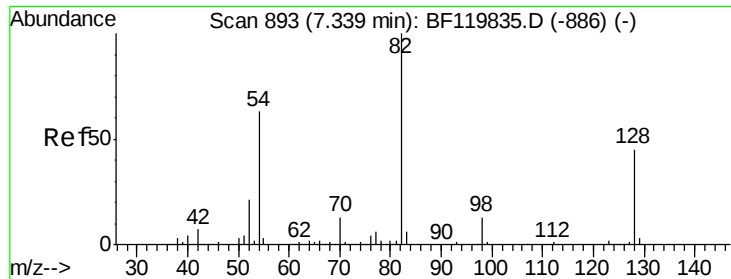
136 100

137 11.3 8.7 13.1

54 10.5 8.5 12.7

68 5.5 3.9 5.9

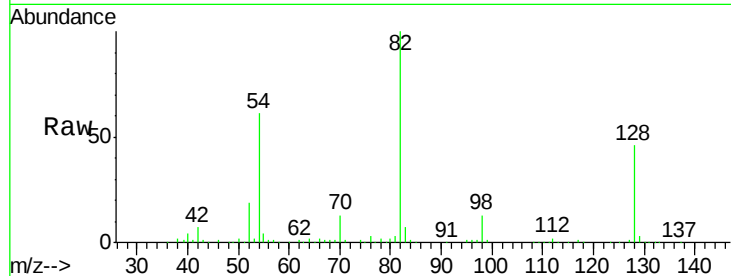




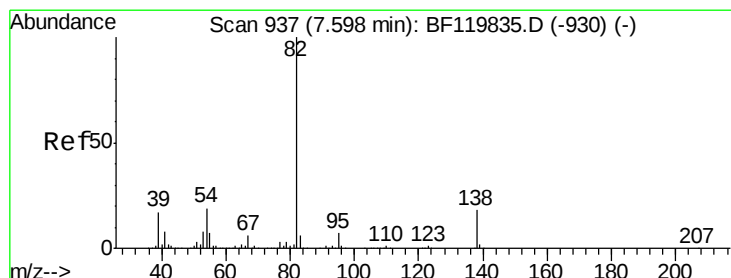
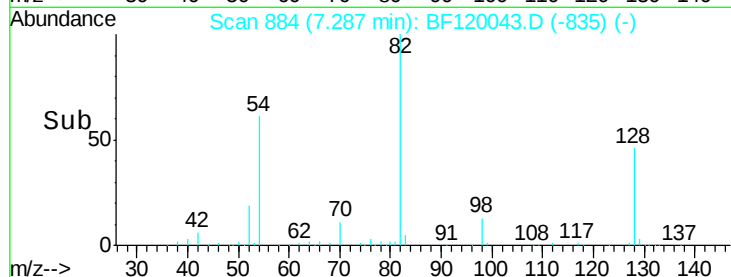
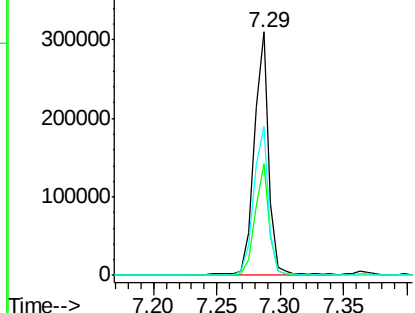
#23
 Nitrobenzene-d5
 Concen: 23.729 ng
 RT: 7.29 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Instrument :
 BNA_F
 ClientSampleId :
 TP-23A

Tot Ion	82	Resp	247729
Ion Ratio	Lower	Upper	
82	100		
128	45.7	36.2	54.4
54	60.9	50.4	75.6

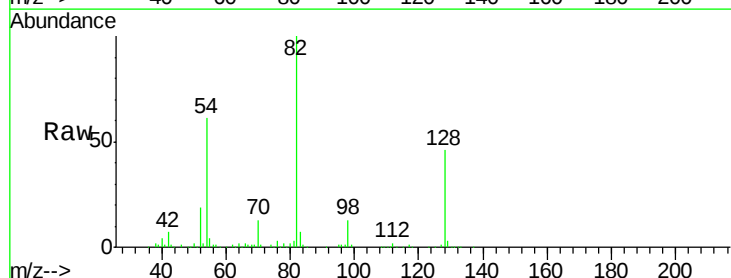


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

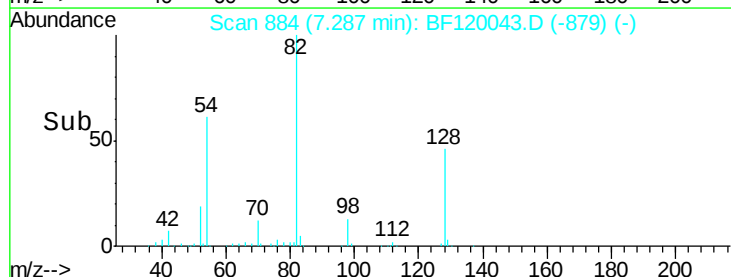
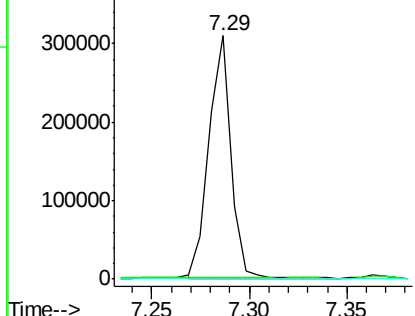


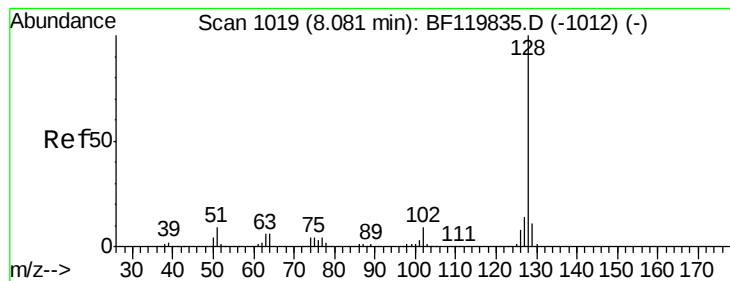
#25
 Isophorone
 Concen: 12.074 ng
 RT: 7.29 min Scan# 884
 Delta R.T. -0.27 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Tgt Ion	82	Resp	242985
Ion Ratio	Lower	Upper	
82	100		
95	0.8	5.8	8.6#
138	0.0	14.5	21.7#



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





#31

Naphthalene

Concen: 2.616 ng

RT: 8.03 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

BNA_F

ClientSampled :

TP-23A

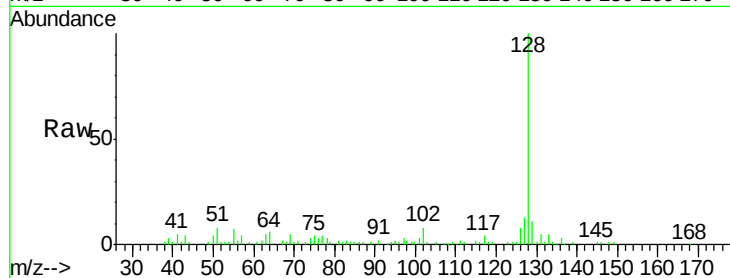
Tot Ion:128 Resp: 74333

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.6

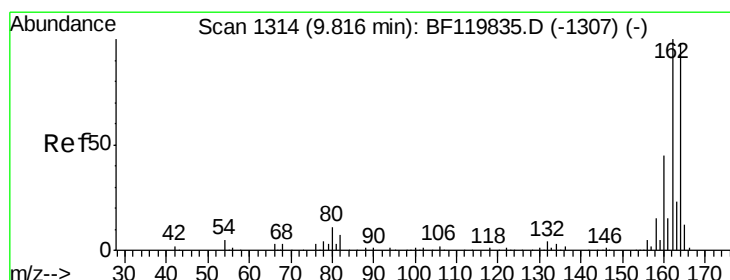
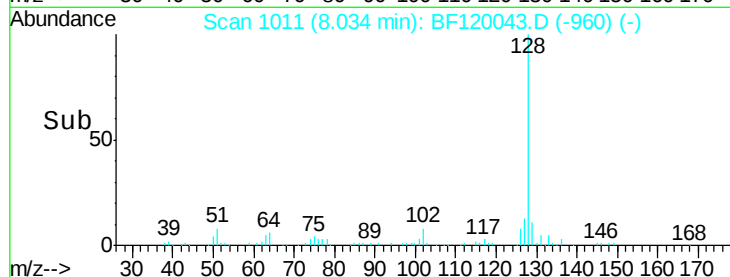
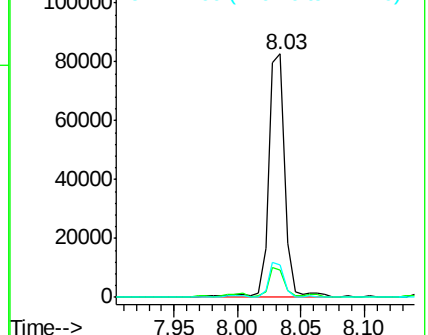
127 13.4 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

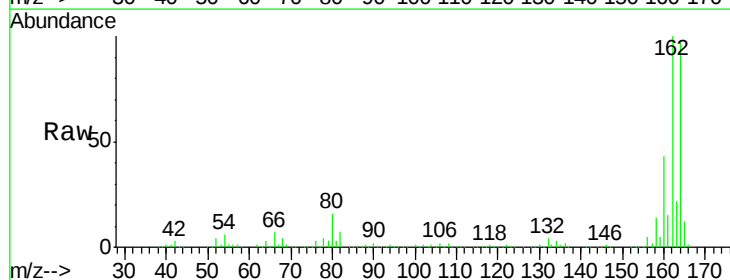
Tgt Ion:164 Resp: 240639

Ion Ratio Lower Upper

164 100

162 102.7 81.9 122.9

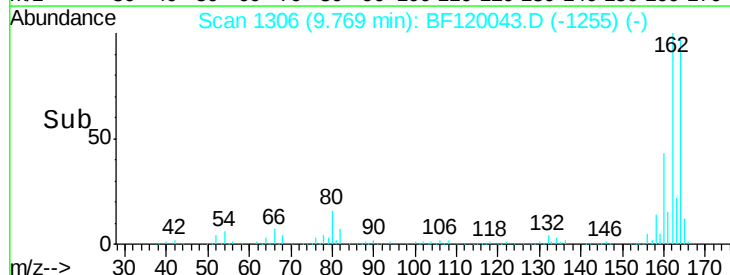
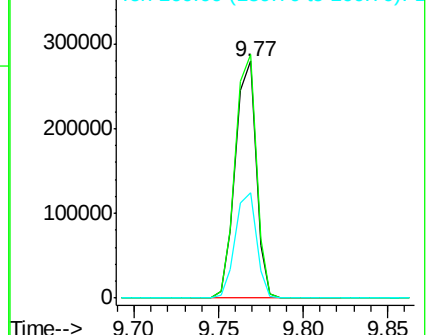
160 44.5 36.6 54.8

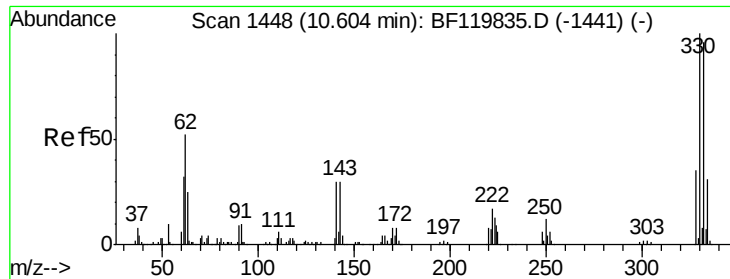


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

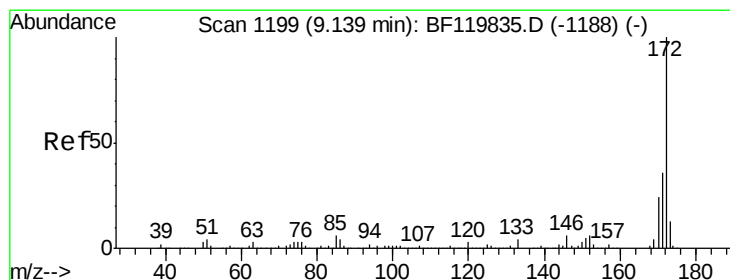
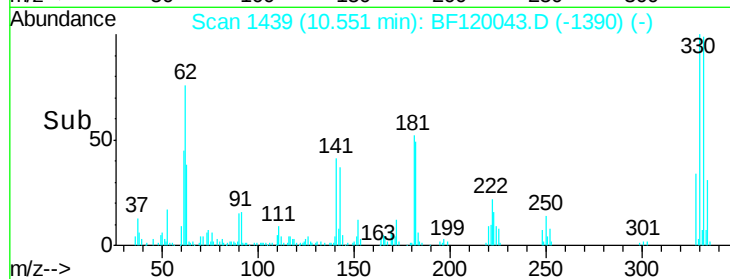
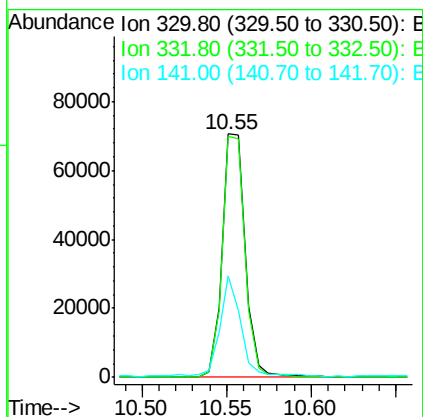
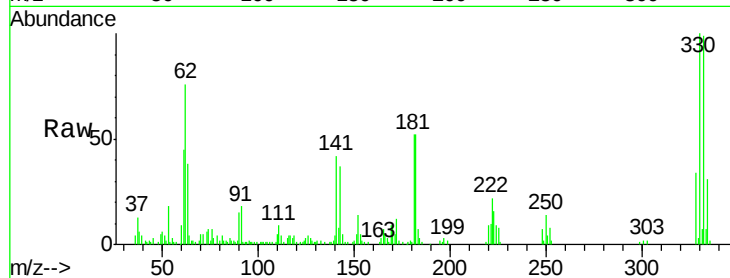




#42
 2,4,6-Tribromophenol
 Concen: 22.769 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

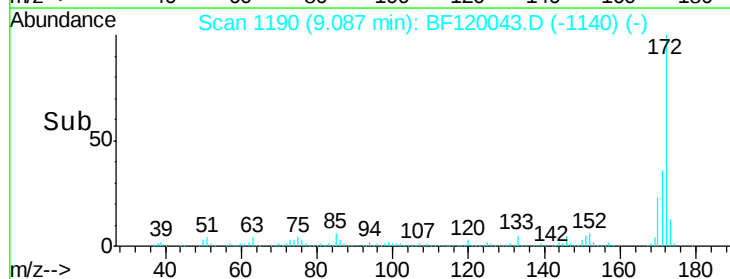
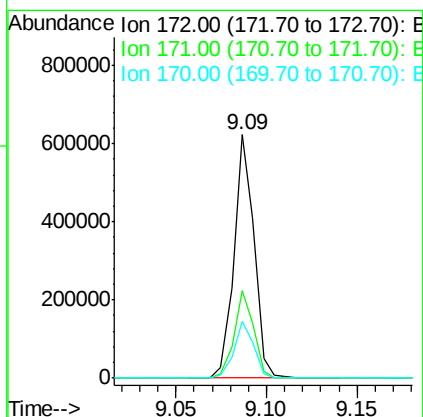
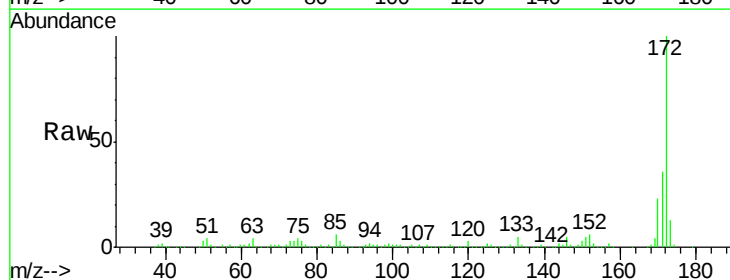
Instrument :
 BNA_F
 ClientSampleId :
 TP-23A

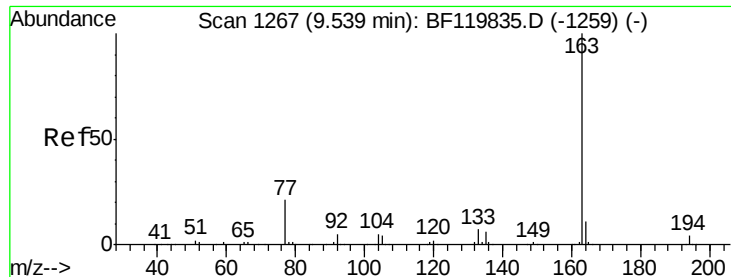
Tot Ion:330 Resp: 67083
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.8 115.2
 141 41.0 25.1 37.7#



#45
 2-Fluorobiphenyl
 Concen: 28.322 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Tgt Ion:172 Resp: 480028
 Ion Ratio Lower Upper
 172 100
 171 35.9 28.9 43.3
 170 23.5 19.4 29.2

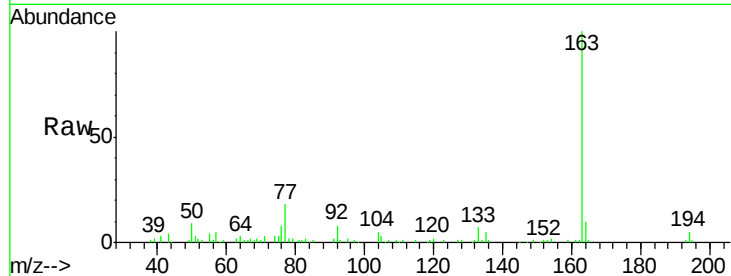




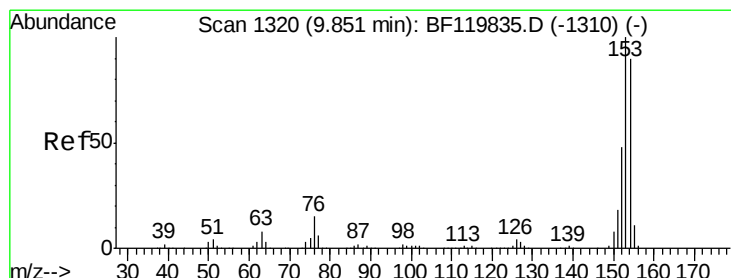
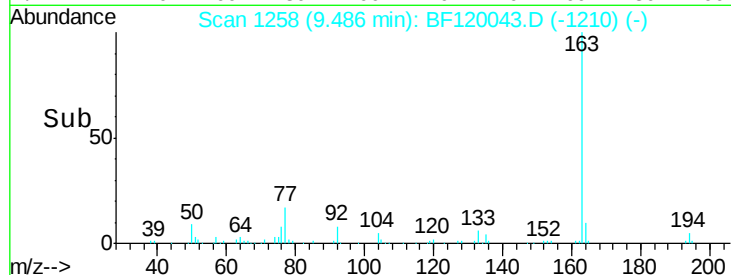
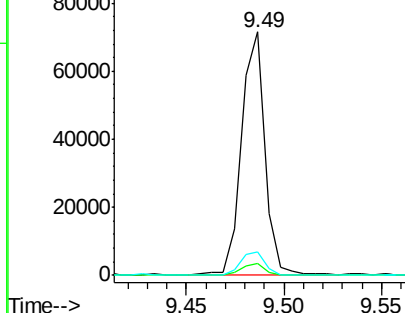
#50
Dimethylphthalate
Concen: 3.209 ng
RT: 9.49 min Scan# 1258
Delta R.T. -0.02 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Instrument :
BNA_F
ClientSampleId :
TP-23A

Tot Ion	Ratio	Lower	Upper
163	100		
194	5.1	3.0	4.4#
164	9.6	8.4	12.6

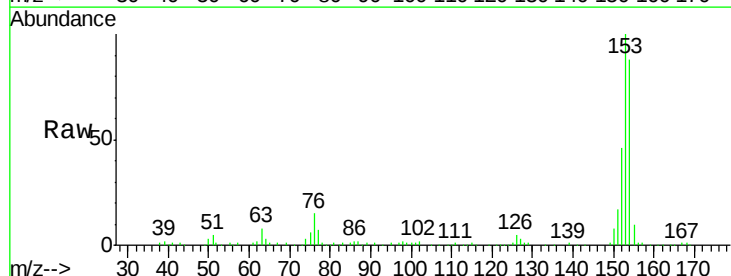


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

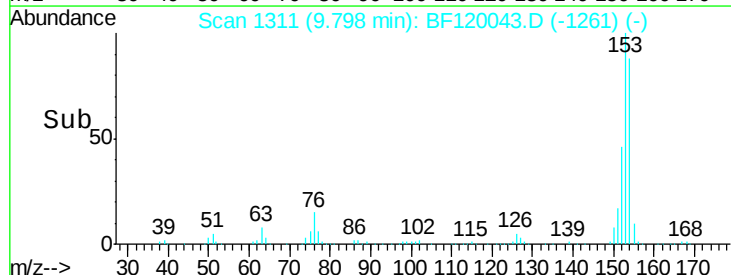
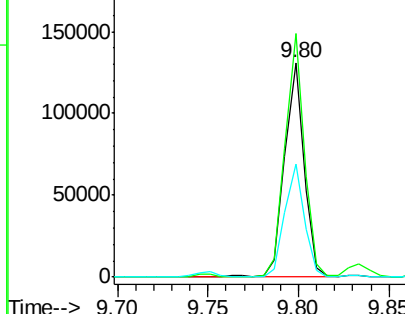


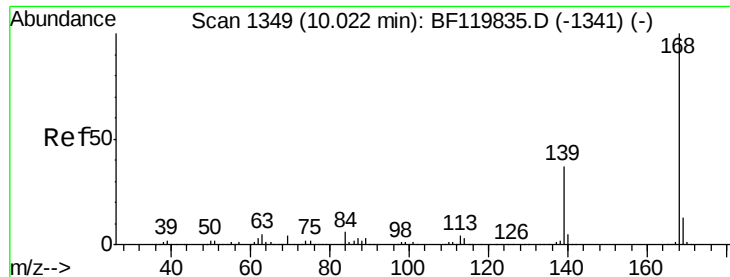
#52
Acenaphthene
Concen: 6.194 ng
RT: 9.80 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.6	88.8	133.2
152	52.7	42.4	63.6



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

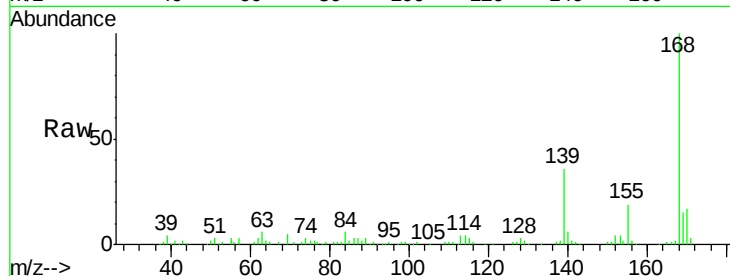




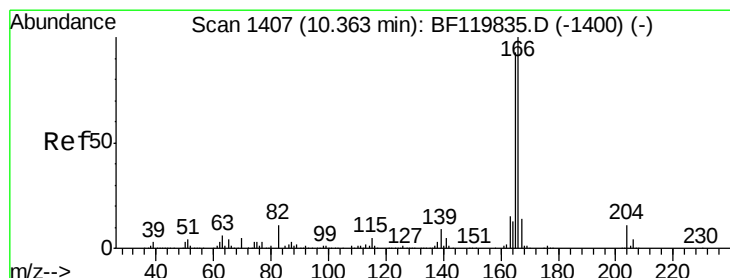
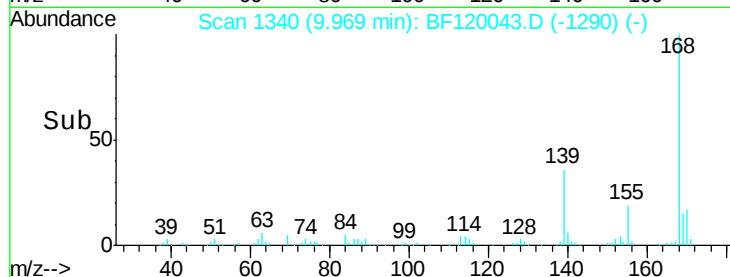
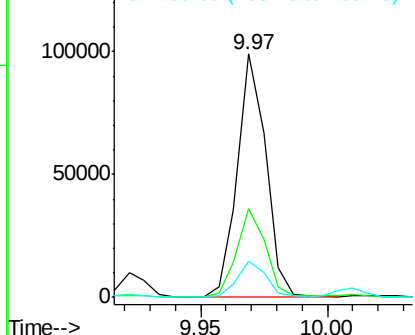
#55
Dibenzenofuran
Concen: 3.595 ng
RT: 9.97 min Scan# 1340
Delta R.T. -0.01 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Instrument :
BNA_F
ClientSampled :
TP-23A

Tot Ion:168 Resp: 78308
Ion Ratio Lower Upper
168 100
139 36.3 29.8 44.6
169 15.1 10.6 15.8

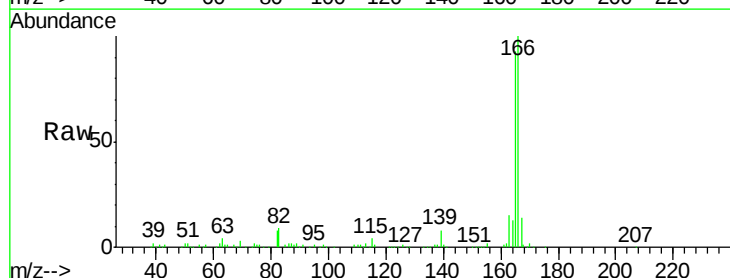


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

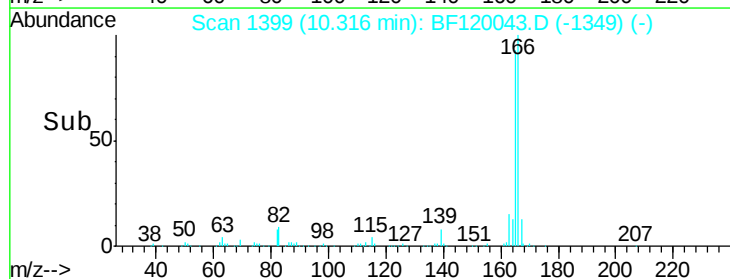
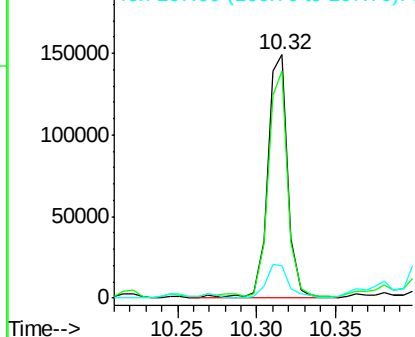


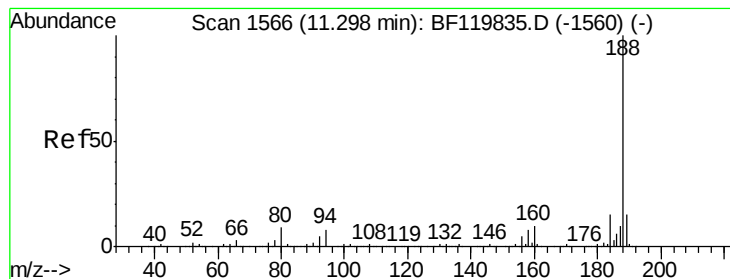
#58
Fluorene
Concen: 7.701 ng
RT: 10.32 min Scan# 1399
Delta R.T. -0.01 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Tgt Ion:166 Resp: 134155
Ion Ratio Lower Upper
166 100
165 93.0 74.2 111.2
167 13.6 10.8 16.2



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

BNA_F

ClientSampleId :

TP-23A

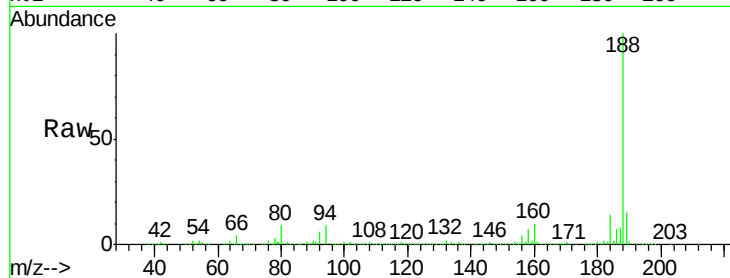
Tot Ion:188 Resp: 373815

Ion Ratio Lower Upper

188 100

94 9.5 6.7 10.1

80 9.4 7.4 11.2

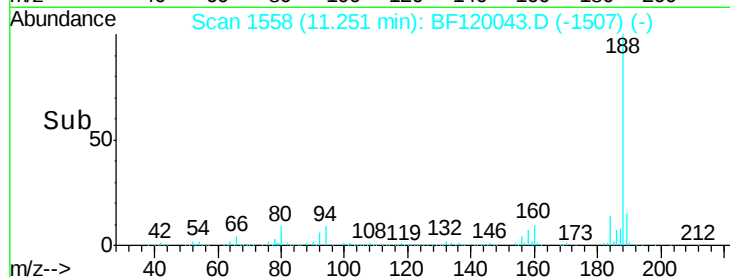


Abundance Ion 188.00 (187.70 to 188.70): E

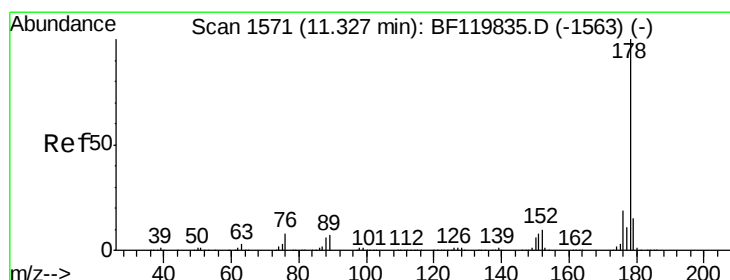
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time-->



Time-->



#71

Phenanthrene

Concen: 76.336 ng

RT: 11.28 min Scan# 1563

Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

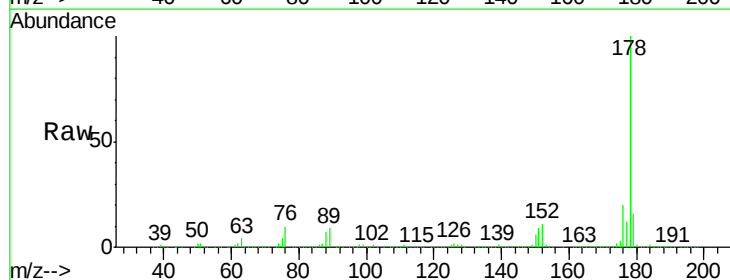
Tgt Ion:178 Resp: 1518702

Ion Ratio Lower Upper

178 100

176 19.9 15.1 22.7

179 15.9 12.2 18.4

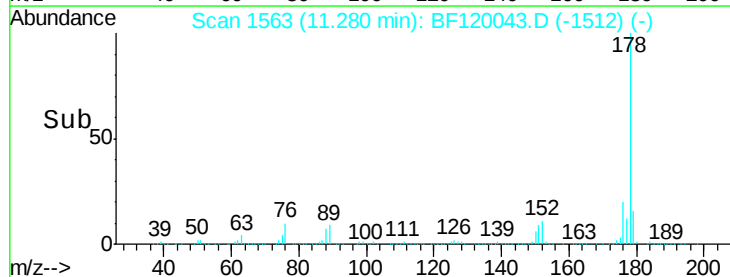


Abundance Ion 178.00 (177.70 to 178.70): E

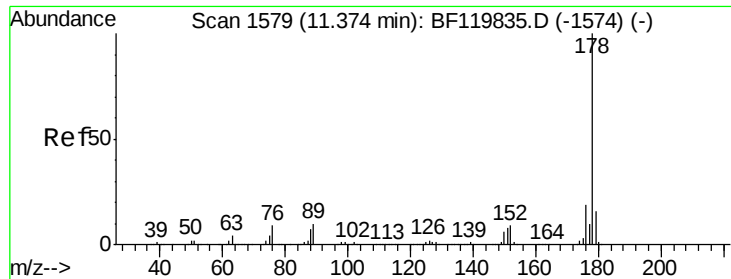
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



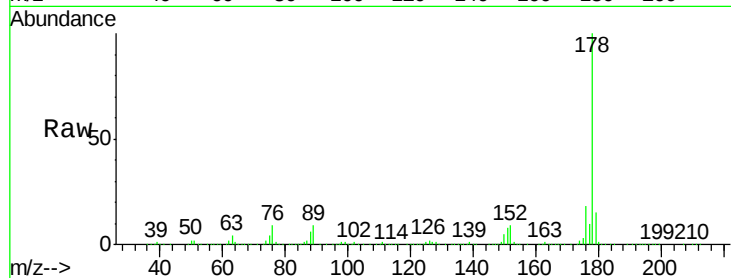
Time-->



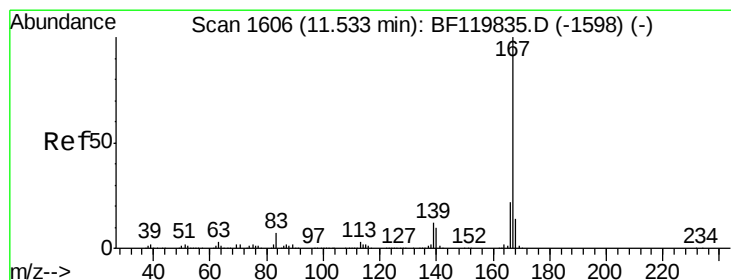
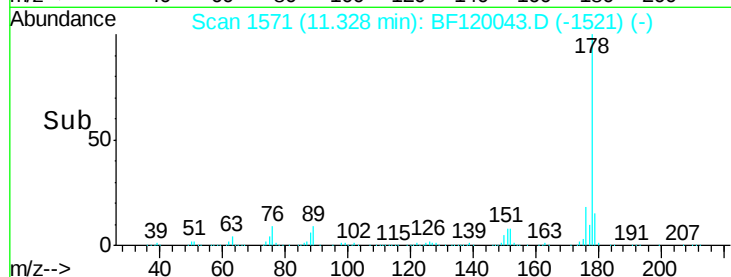
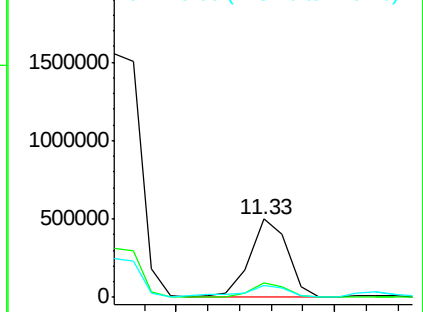
#72
 Anthracene
 Concen: 20.215 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Instrument :
 BNA_F
 ClientSampleId :
 TP-23A

Tot Ion:178 Resp: 410834
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.2
 179 15.0 12.8 19.2

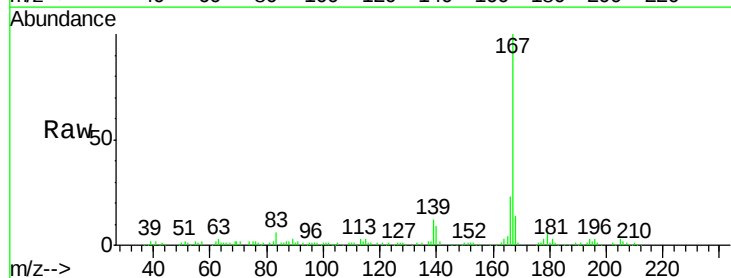


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

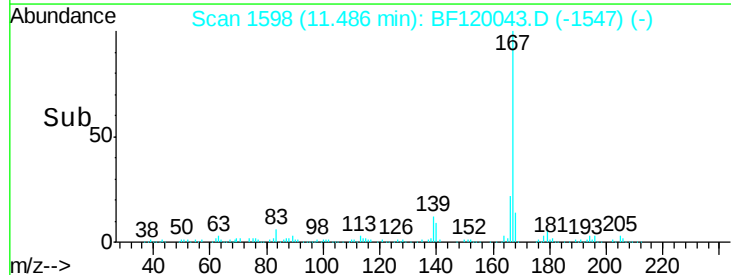
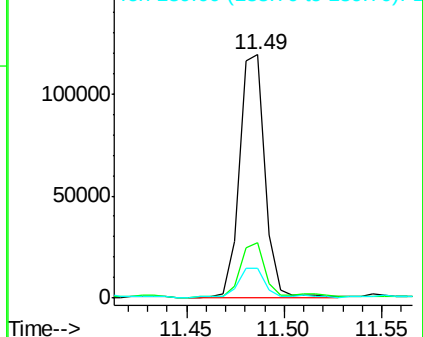


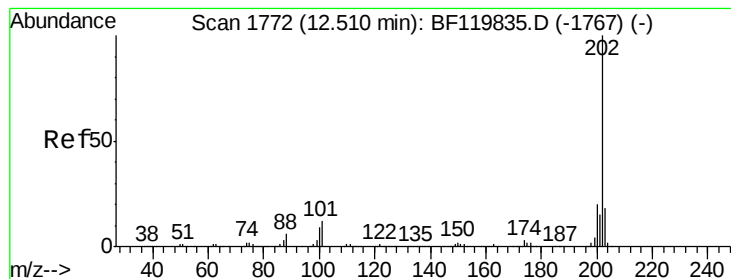
#73
 Carbazole
 Concen: 5.519 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. 0.00 min
 Lab File: BF120043.D
 Acq: 16 Apr 2020 18:26

Tgt Ion:167 Resp: 106064
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.4 26.0
 139 12.0 9.8 14.8



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 86.810 ng

RT: 12.47 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

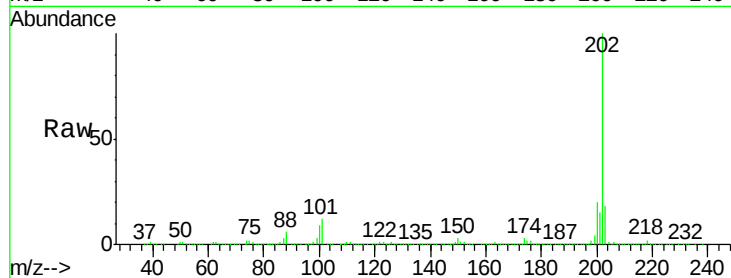
BNA_F

ClientSampleId :

TP-23A

Tot Ion:202 Resp: 1863493

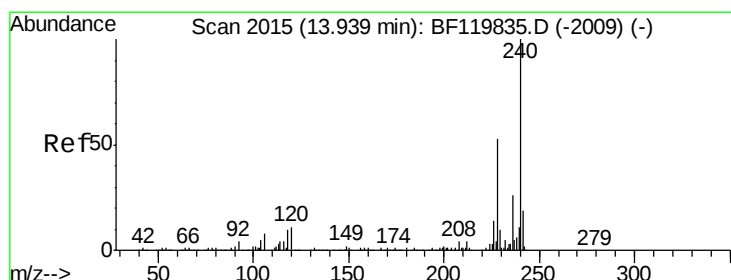
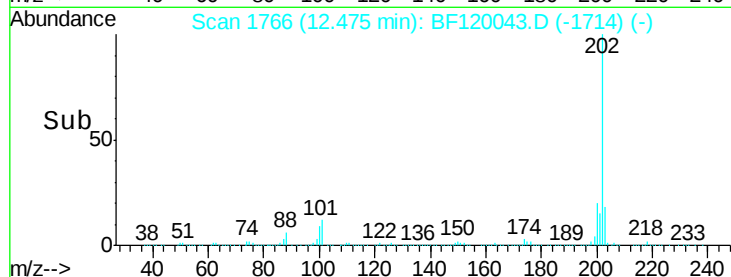
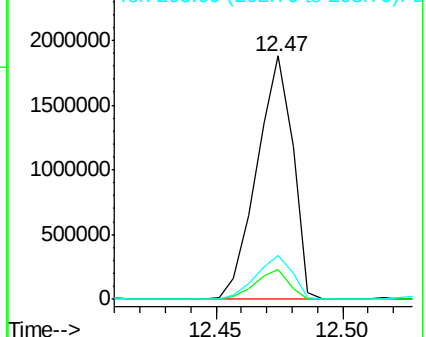
Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	32.3
203	18.2	0.0	37.6



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: 13.90 min Scan# 2008

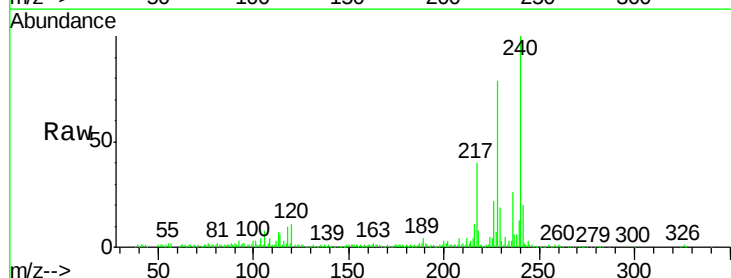
Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Tgt Ion:240 Resp: 255706

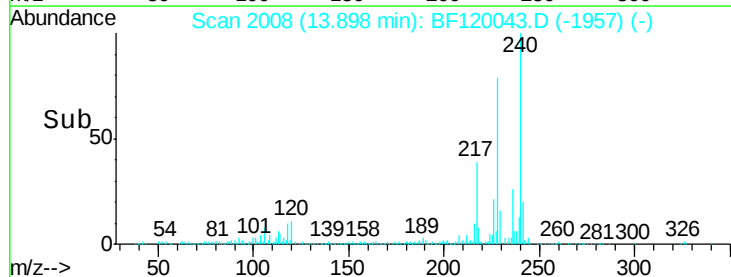
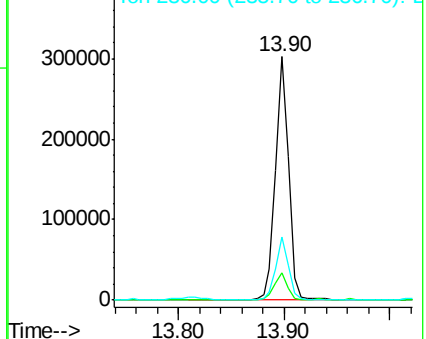
Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.0	13.6
236	26.1	20.7	31.1

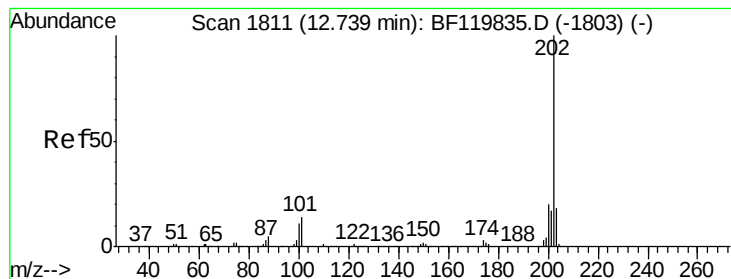


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 80.018 ng

RT: 12.70 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

BNA_F

ClientSampleId :

TP-23A

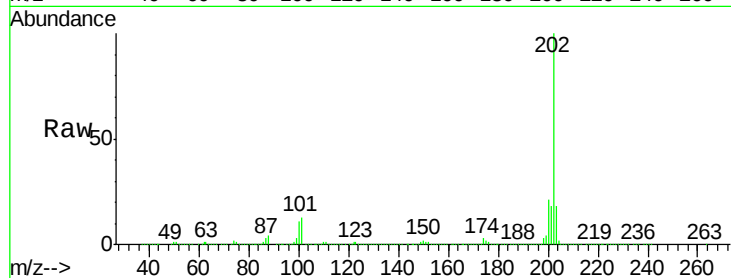
Tot Ion:202 Resp: 1724908

Ion Ratio Lower Upper

202 100

200 20.6 16.2 24.2

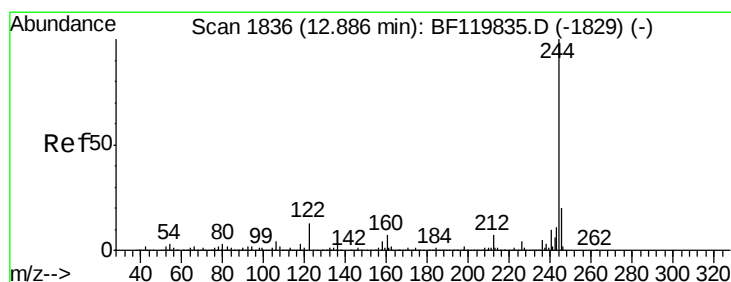
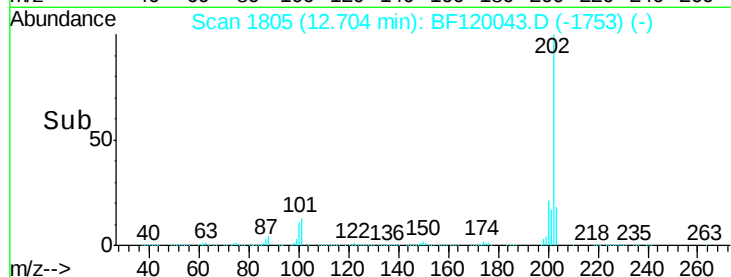
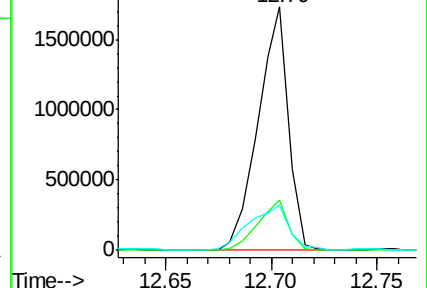
203 18.4 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 24.754 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

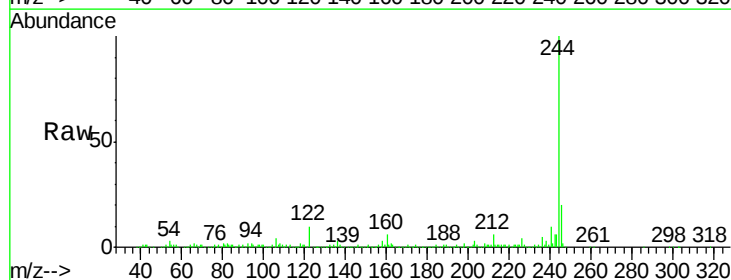
Tgt Ion:244 Resp: 376173

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.0

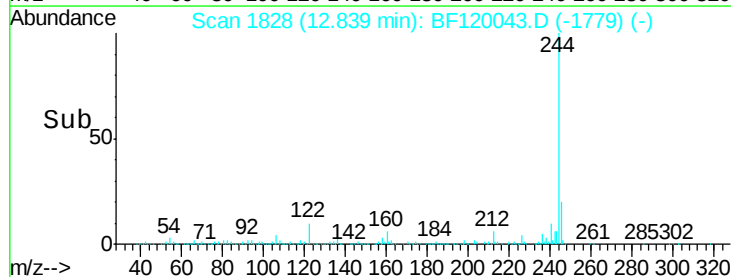
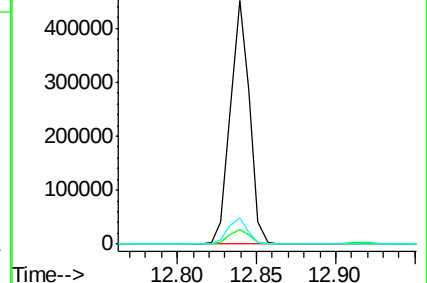
122 10.5 10.3 15.5

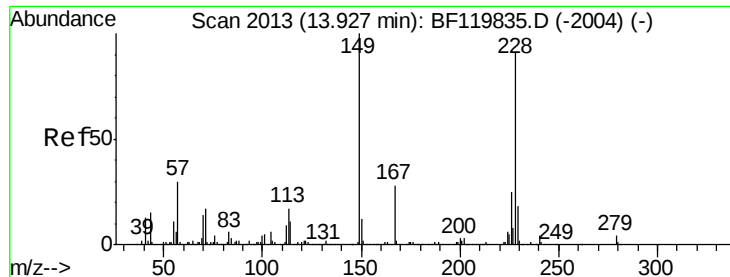


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

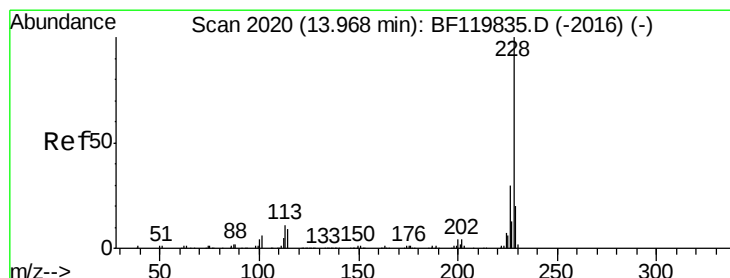
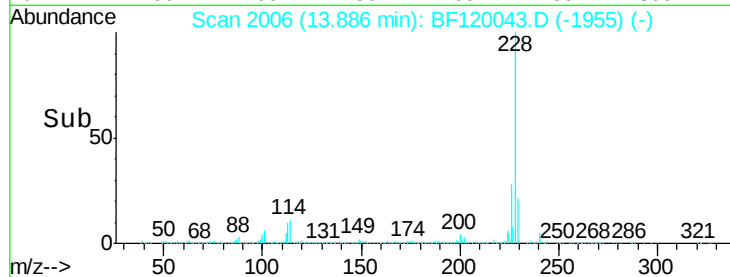
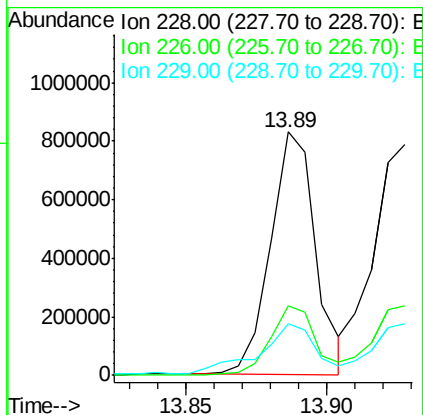
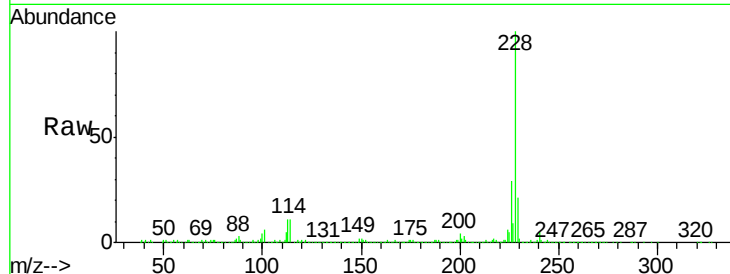




#81
Benzo(a)anthracene
Concen: 54.559 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.00 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

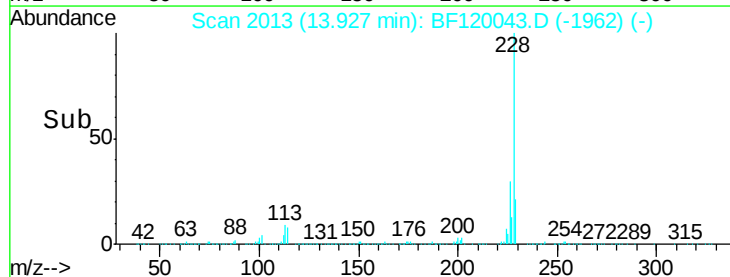
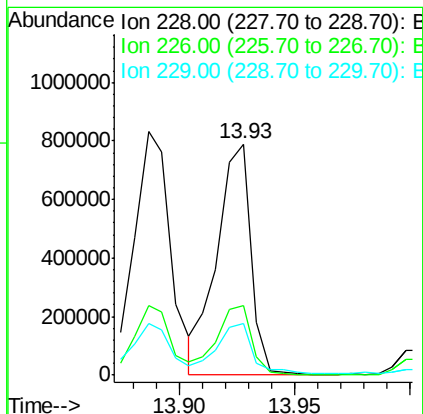
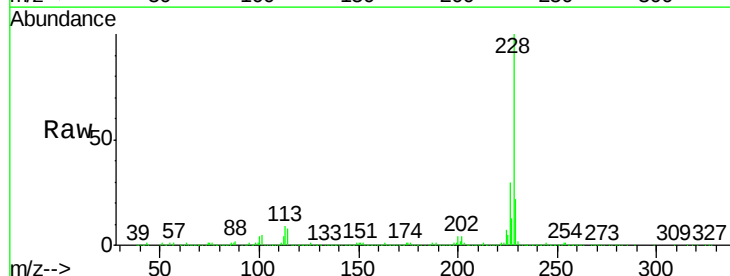
Instrument :
BNA_F
ClientSampleId :
TP-23A

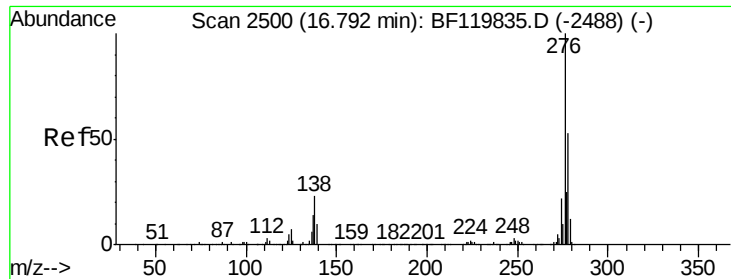
Tot Ion:228 Resp: 917783
Ion Ratio Lower Upper
228 100
226 28.6 21.9 32.9
229 21.3 15.9 23.9



#83
Chrysene
Concen: 46.962 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.00 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Tgt Ion:228 Resp: 802699
Ion Ratio Lower Upper
228 100
226 29.9 24.2 36.2
229 22.2 15.9 23.9





#86

Indeno(1,2,3-cd)pyrene

Concen: 19.843 ng

RT: 16.72 min Scan# 2487

Delta R.T. 0.01 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

BNA_F

ClientSampleId :

TP-23A

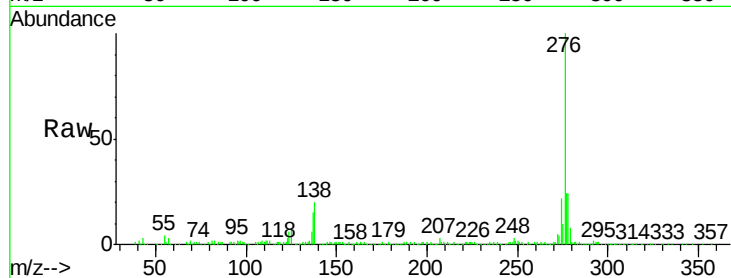
Tot Ion:276 Resp: 298981

Ion Ratio Lower Upper

276 100

138 21.5 18.0 27.0

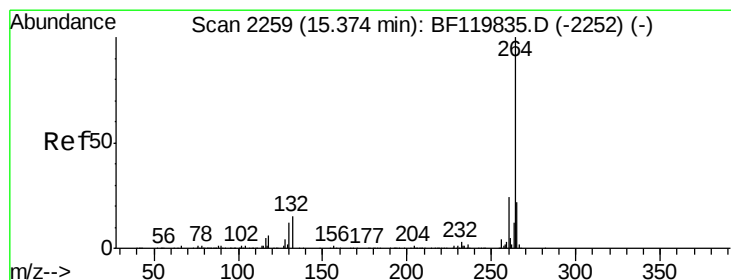
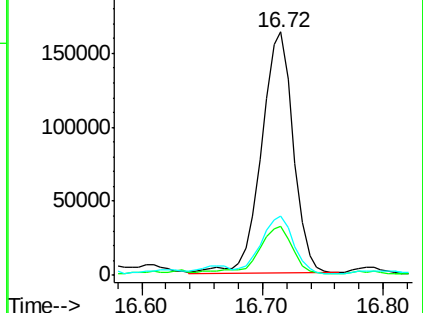
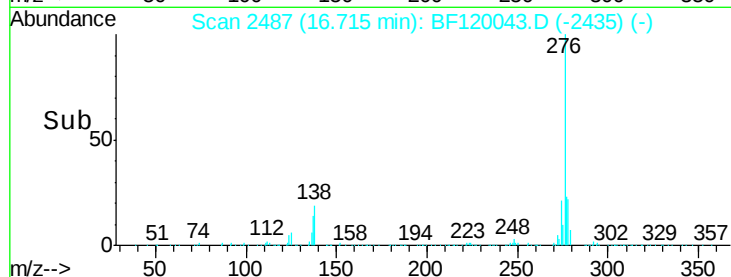
277 24.5 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.33 min Scan# 2251

Delta R.T. 0.01 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

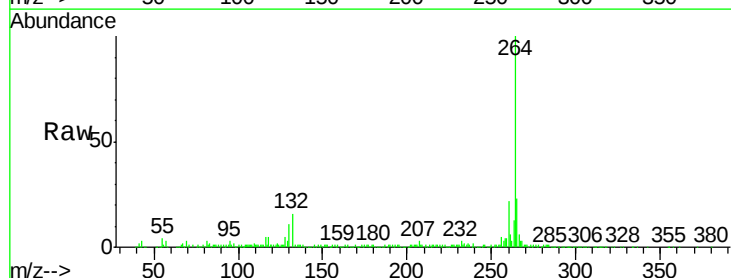
Tgt Ion:264 Resp: 223394

Ion Ratio Lower Upper

264 100

260 22.4 19.3 28.9

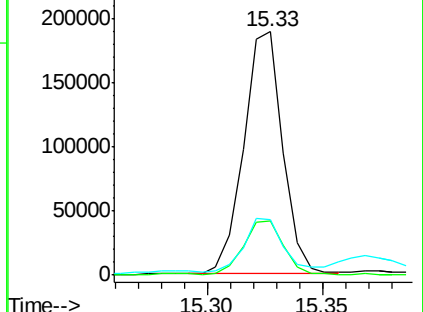
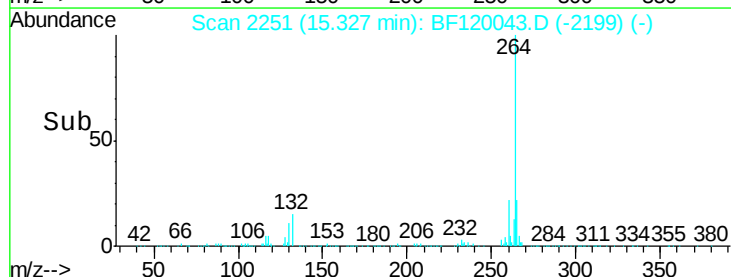
265 23.0 17.6 26.4

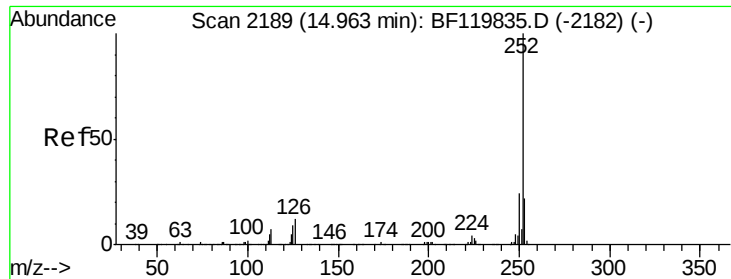


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

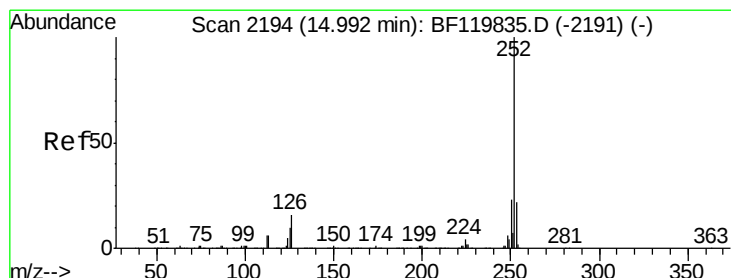
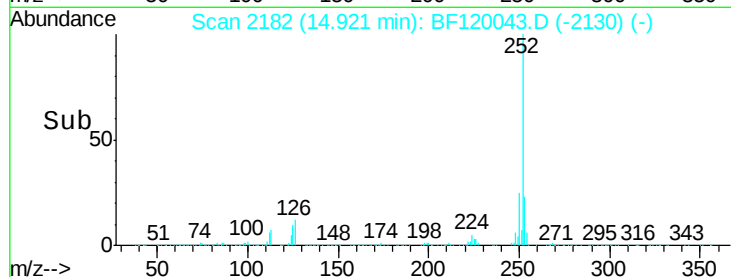
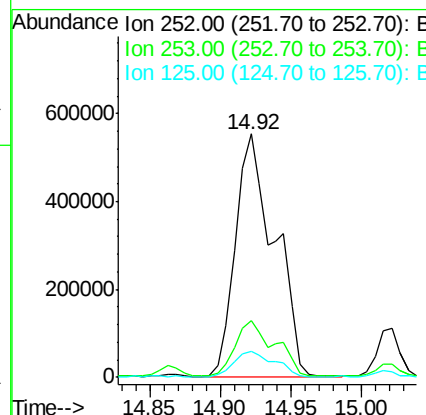
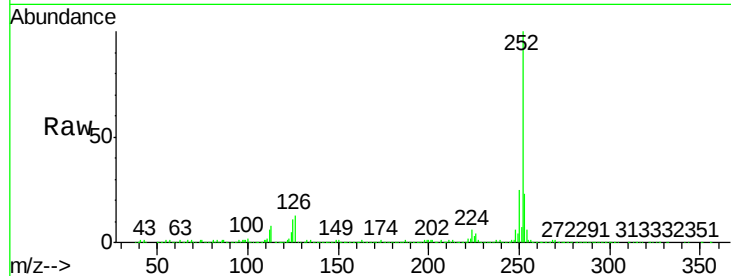




#88
Benzo(b)fluoranthene
Concen: 66.413 ng
RT: 14.92 min Scan# 2182
Delta R.T. 0.01 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

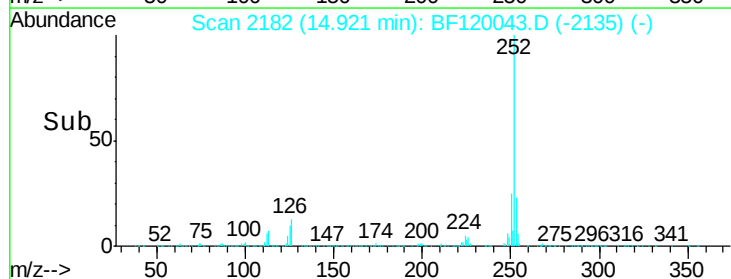
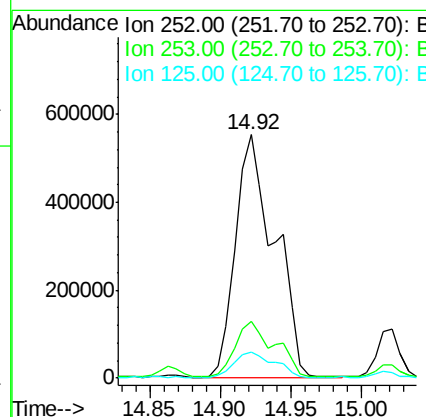
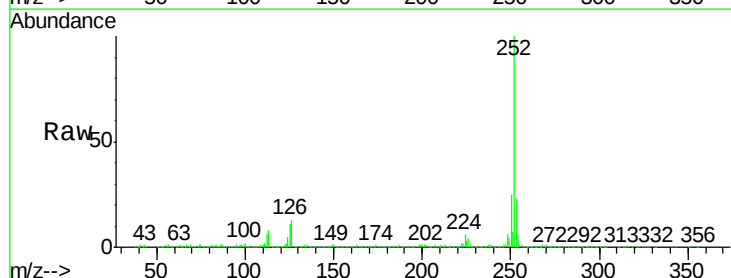
Instrument :
BNA_F
ClientSampleId :
TP-23A

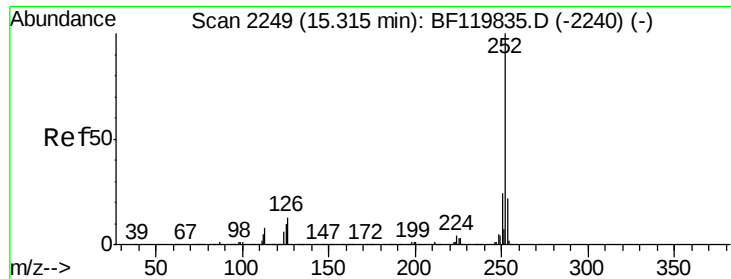
Tot Ion:252 Resp: 1067288
Ion Ratio Lower Upper
252 100
253 23.2 17.7 26.5
125 10.7 7.4 11.2



#89
Benzo(k)fluoranthene
Concen: 76.972 ng
RT: 14.92 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Tgt Ion:252 Resp: 1067288
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 10.7 7.7 11.5

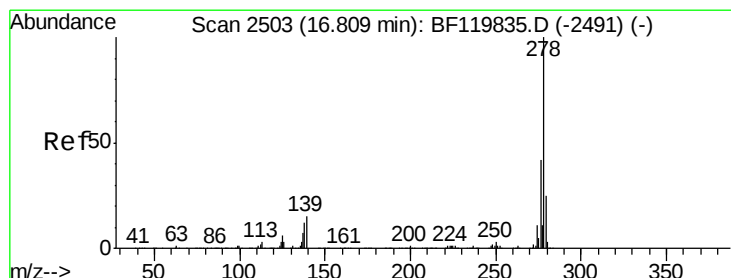
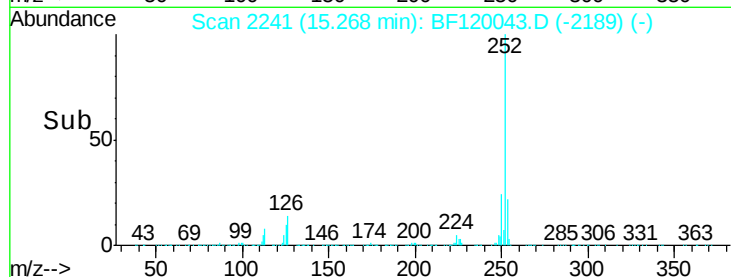
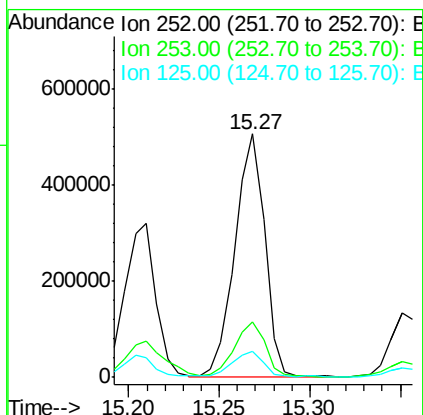
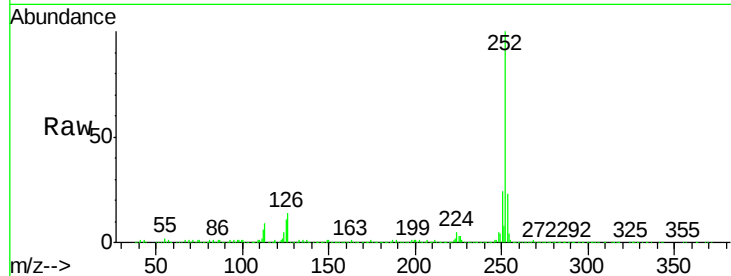




#90
Benzo(a)pyrene
Concen: 42.695 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.01 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

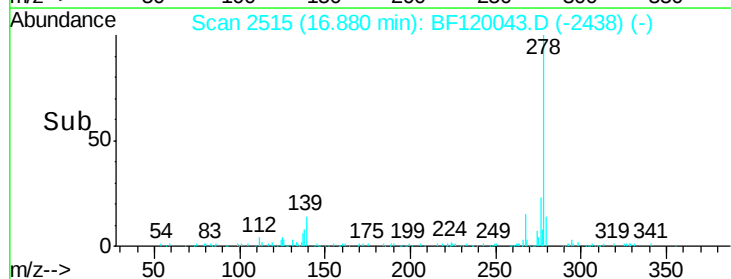
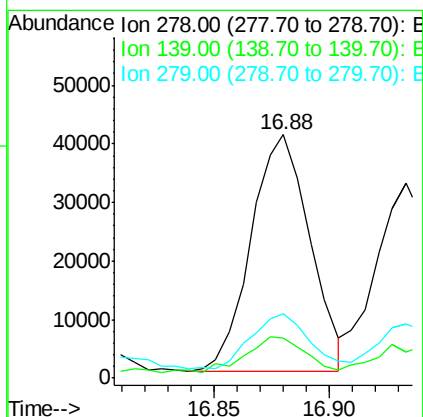
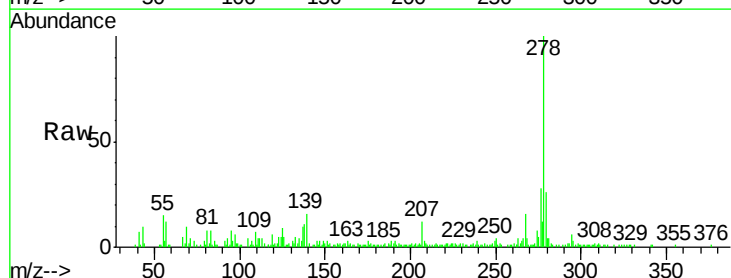
Instrument :
BNA_F
ClientSampleId :
TP-23A

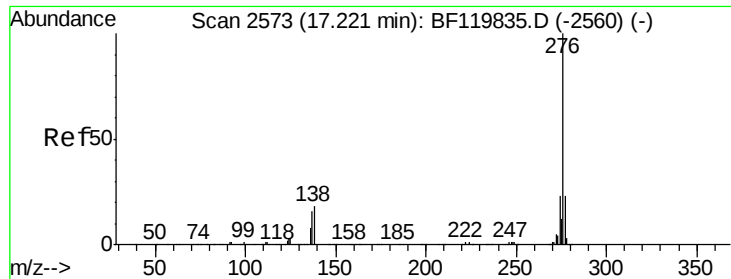
Tot Ion:252 Resp: 576888
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.2
125 10.6 8.3 12.5



#91
Dibenzo(a,h)anthracene
Concen: 5.982 ng
RT: 16.88 min Scan# 2515
Delta R.T. 0.15 min
Lab File: BF120043.D
Acq: 16 Apr 2020 18:26

Tgt Ion:278 Resp: 71599
Ion Ratio Lower Upper
278 100
139 16.5 11.6 17.4
279 26.5 19.7 29.5





#92

Benzo(a,h,i)perylene

Concen: 22.478 ng

RT: 17.13 min Scan# 2558

Delta R.T. 0.00 min

Lab File: BF120043.D

Acq: 16 Apr 2020 18:26

Instrument :

BNA_F

ClientSampleId :

TP-23A

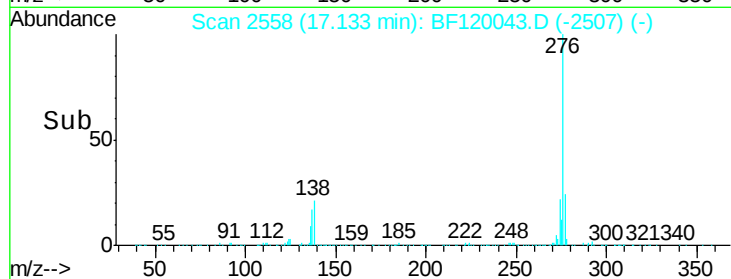
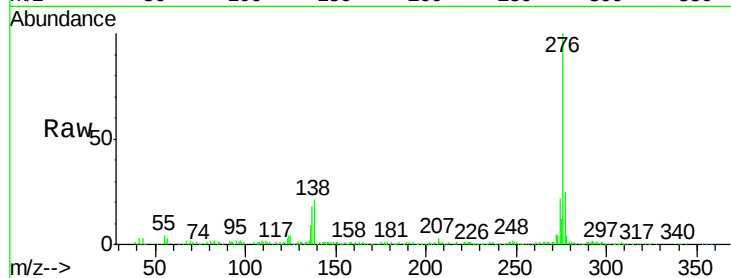
Tot Ion:276 Resp: 265570

Ion Ratio Lower Upper

276 100

277 24.8 18.5 27.7

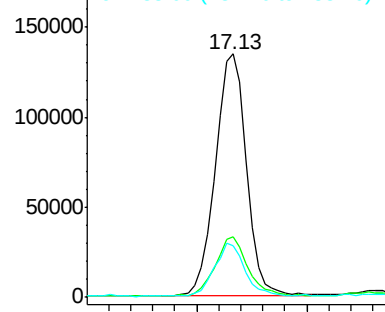
138 21.4 14.6 22.0



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



Time-->