

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
 Data File : BF135898.D
 Acq On : 19 Oct 2023 21:22
 Operator : CG\JU
 Sample : 04704-06DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-4(5-10)DL

Quant Time: Oct 20 02:05:27 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

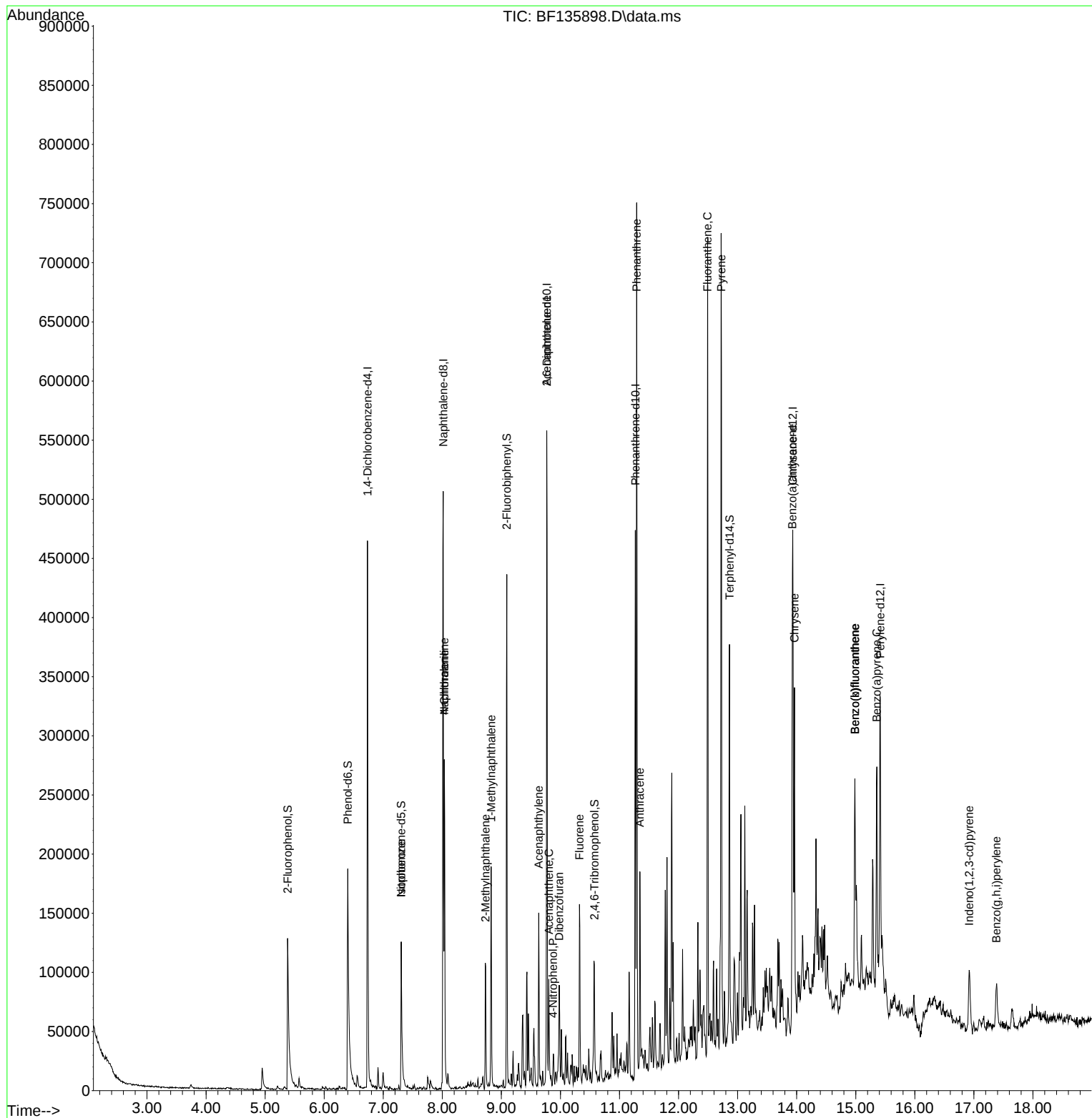
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	67929	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	221544	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	107193	20.000	ng	-0.02
64) Phenanthrene-d10	11.269	188	155264	20.000	ng	-0.01
76) Chrysene-d12	13.933	240	104560	20.000	ng	-0.02
86) Perylene-d12	15.415	264	122612	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	64318	15.223	ng	0.00
7) Phenol-d6	6.398	99	108347	20.552	ng	0.00
23) Nitrobenzene-d5	7.304	82	50420	12.517	ng	-0.01
42) 2,4,6-Tribromophenol	10.574	330	12108	11.771	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	126510	18.453	ng	-0.01
79) Terphenyl-d14	12.863	244	109152	19.332	ng	-0.02
Target Compounds						
						Qvalue
25) Isophorone	7.304	82	50420	6.635	ng	# 66
31) Naphthalene	8.033	128	121222	11.218	ng	99
33) 4-Chloroaniline	8.033	127	15166	3.213	ng	# 31
37) 2-Methylnaphthalene	8.733	142	31624	4.442	ng	90
38) 1-Methylnaphthalene	8.828	142	45200	6.883	ng	99
49) Acenaphthylene	9.633	152	49663	5.071	ng	99
51) 2,6-Dinitrotoluene	9.769	165	14814	9.520	ng	# 16
52) Acenaphthene	9.804	154	17214	2.933	ng	93
55) Dibenzofuran	9.980	168	24567	2.774	ng	# 96
56) 4-Nitrophenol	9.875	139	349	5.864	ng	# 52
58) Fluorene	10.322	166	45620	6.579	ng	100
71) Phenanthrene	11.292	178	245518	33.009	ng	99
72) Anthracene	11.345	178	70130	9.099	ng	96
75) Fluoranthene	12.492	202	253165	30.668	ng	97
78) Pyrene	12.721	202	285164	34.320	ng	99
81) Benzo(a)anthracene	13.927	228	106090	15.447	ng	98
83) Chrysene	13.962	228	102885	15.467	ng	98
87) Indeno(1,2,3-cd)pyrene	16.921	276	30924	4.629	ng	96
88) Benzo(b)fluoranthene	14.986	252	127079	18.519	ng	98
89) Benzo(k)fluoranthene	14.986	252	127079	19.075	ng	98
90) Benzo(a)pyrene	15.357	252	89070	13.803	ng	97
92) Benzo(g,h,i)perylene	17.380	276	31480	5.596	ng	97

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

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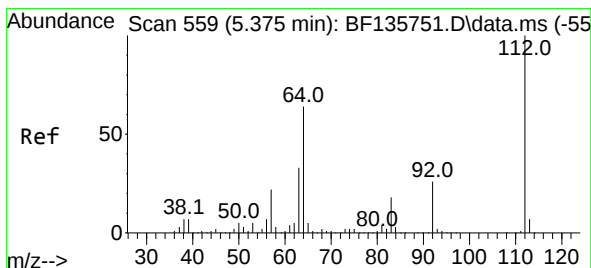
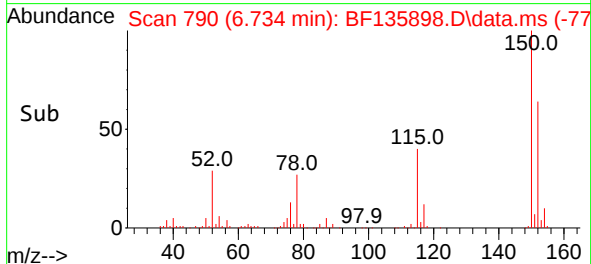
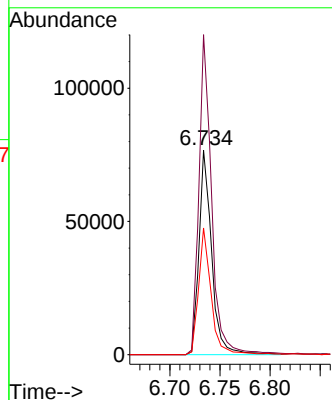
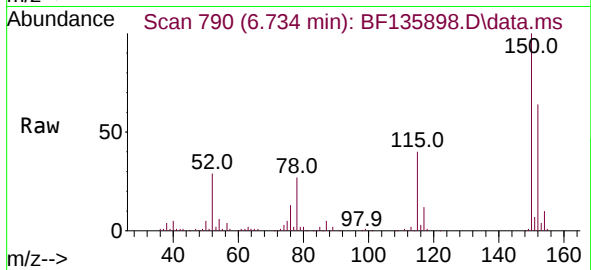




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

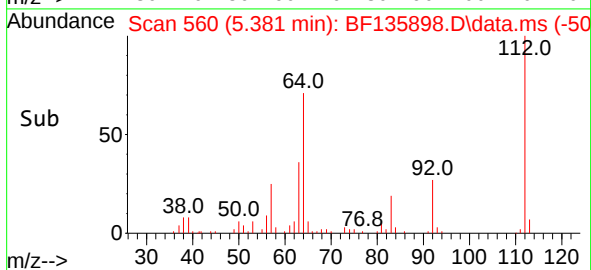
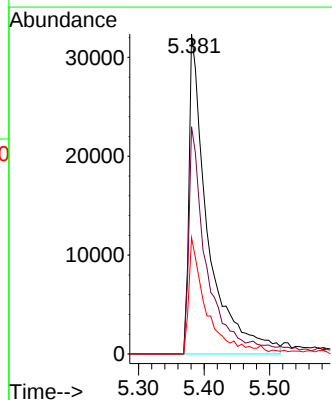
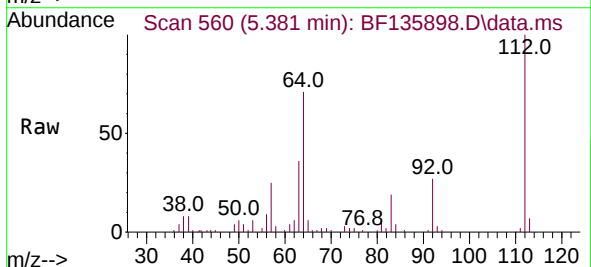
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

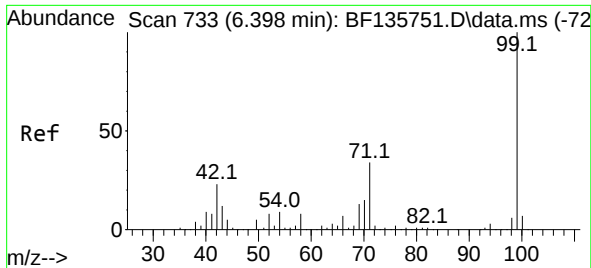
Tgt Ion:152 Resp: 67929
Ion Ratio Lower Upper
152 100
150 156.5 124.5 186.7
115 62.0 49.0 73.4



#5
2-Fluorophenol
Concen: 15.223 ng
RT: 5.381 min Scan# 560
Delta R.T. 0.006 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:112 Resp: 64318
Ion Ratio Lower Upper
112 100
64 71.0 51.2 76.8
63 36.4 26.1 39.1

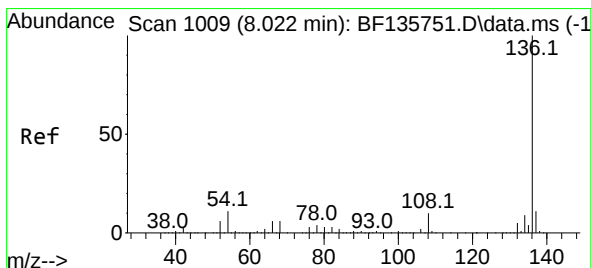
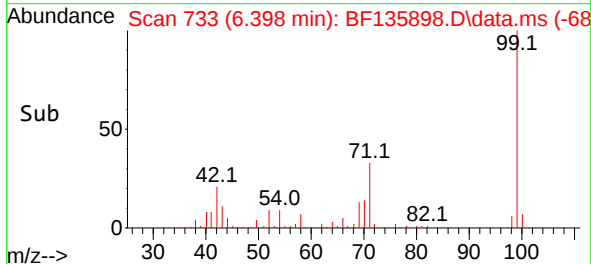
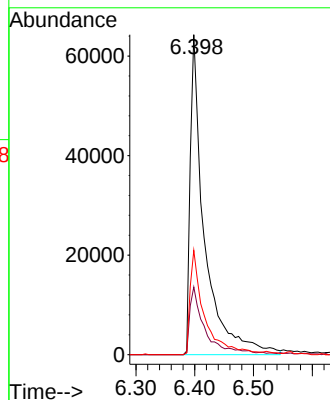
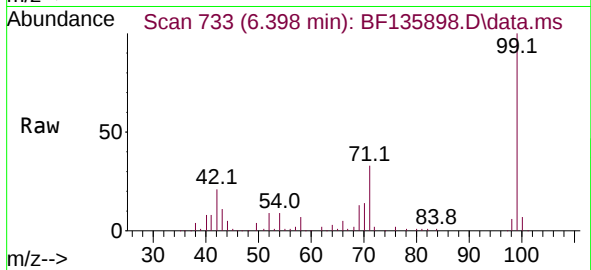




#7
Phenol-d6
Concen: 20.552 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

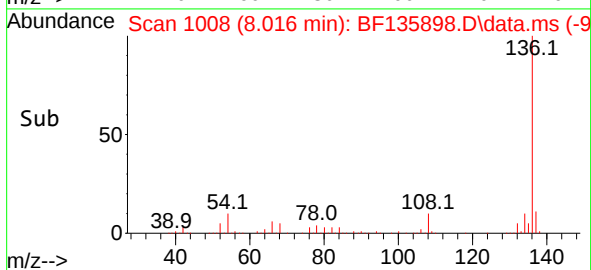
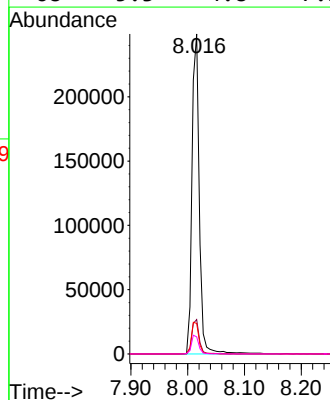
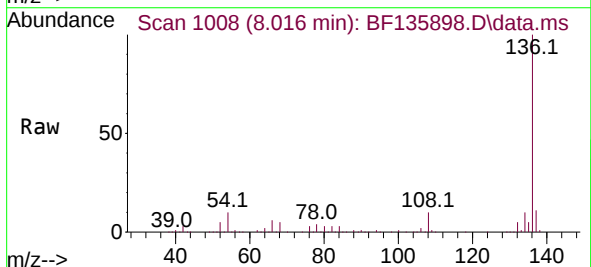
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

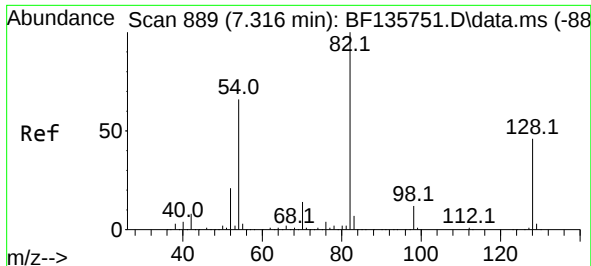
Tgt Ion: 99 Resp: 108347
Ion Ratio Lower Upper
99 100
42 21.2 18.4 27.6
71 32.6 27.2 40.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:136 Resp: 221544
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 9.6 8.5 12.7
68 5.3 4.8 7.2

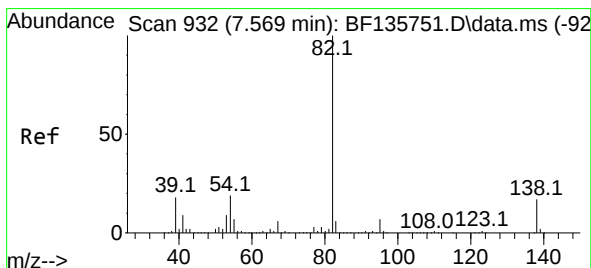
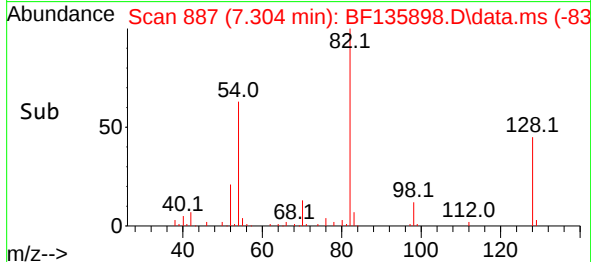
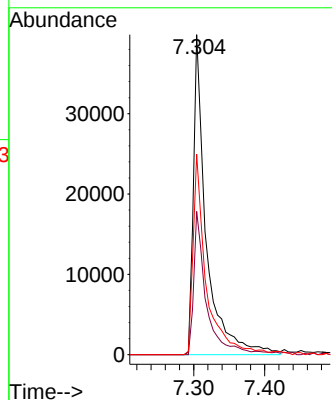
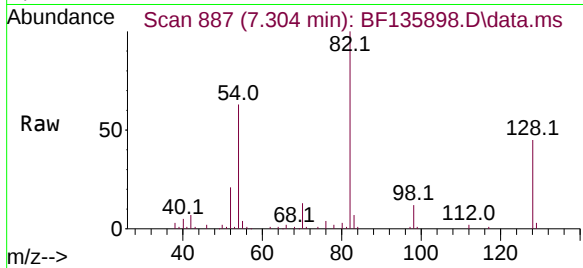




#23
Nitrobenzene-d5
Concen: 12.517 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

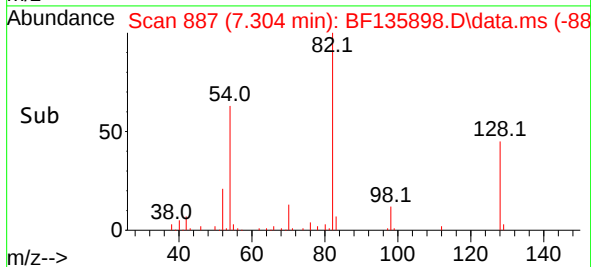
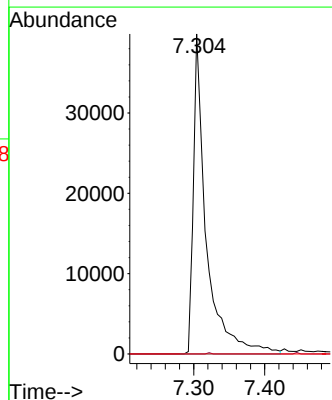
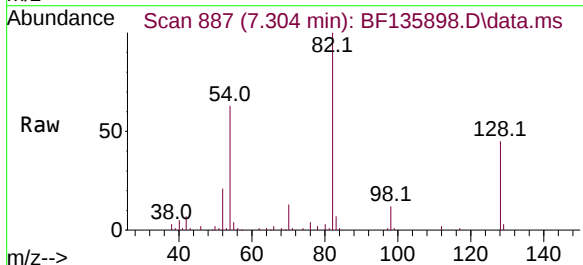
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

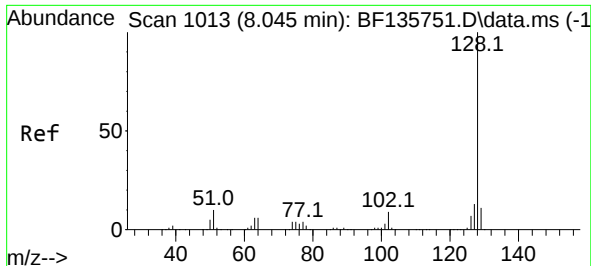
Tgt Ion: 82 Resp: 50420
Ion Ratio Lower Upper
82 100
128 44.8 37.0 55.6
54 62.7 52.8 79.2



#25
Isophorone
Concen: 6.635 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.265 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion: 82 Resp: 50420
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.9 20.9#

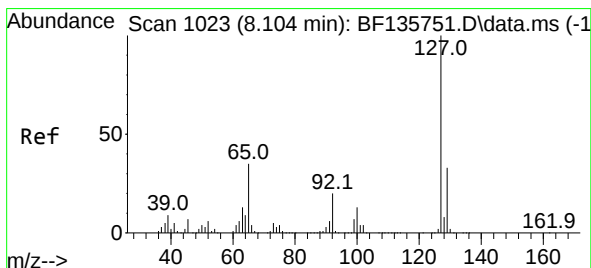
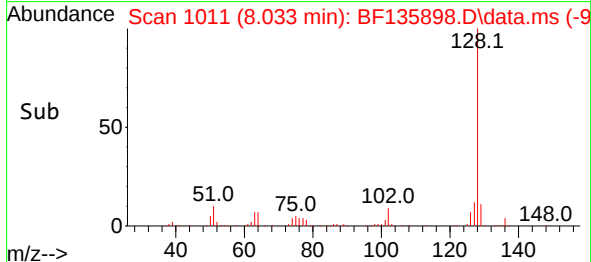
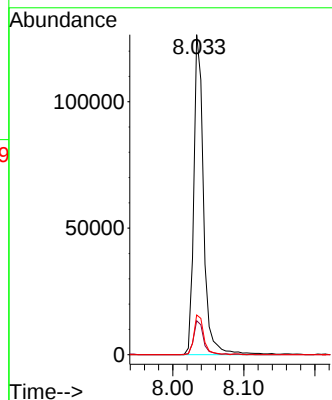
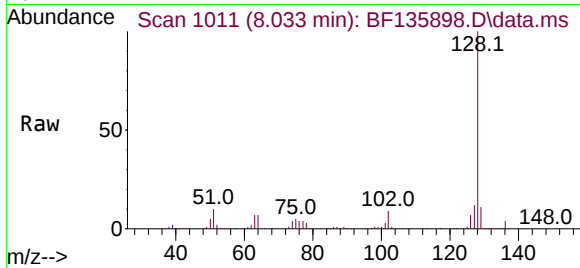




#31
Naphthalene
Concen: 11.218 ng
RT: 8.033 min Scan# 1011
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

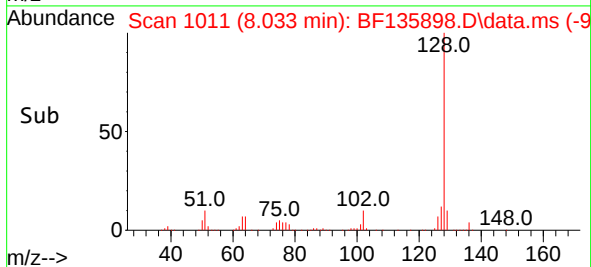
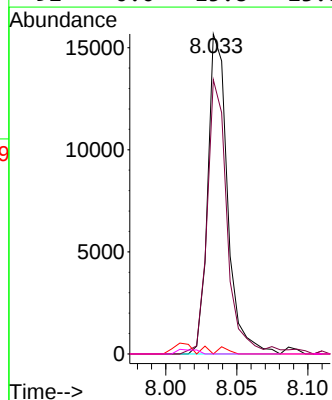
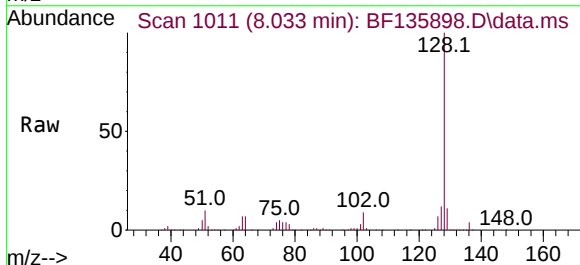
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

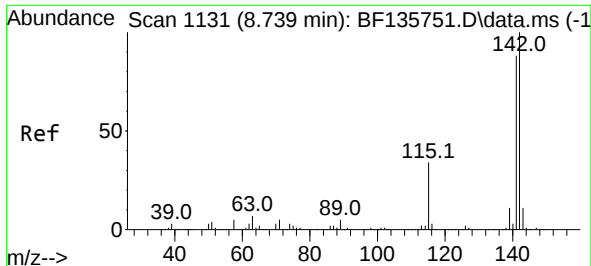
Tgt Ion:128 Resp: 121222
Ion Ratio Lower Upper
128 100
129 10.6 8.7 13.1
127 12.4 10.2 15.4



#33
4-Chloroaniline
Concen: 3.213 ng
RT: 8.033 min Scan# 1011
Delta R.T. -0.071 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:127 Resp: 15166
Ion Ratio Lower Upper
127 100
129 85.7 26.5 39.7#
65 0.0 27.9 41.9#
92 0.0 15.8 23.8#





#37

2-Methylnaphthalene

Concen: 4.442 ng

RT: 8.733 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

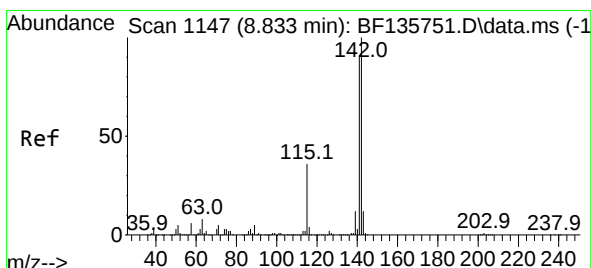
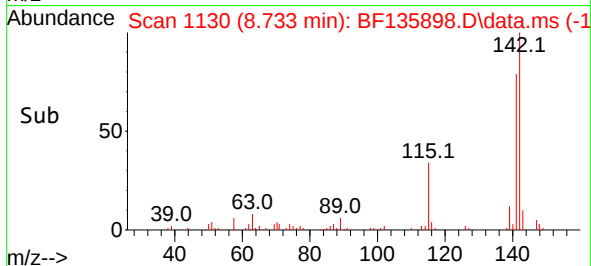
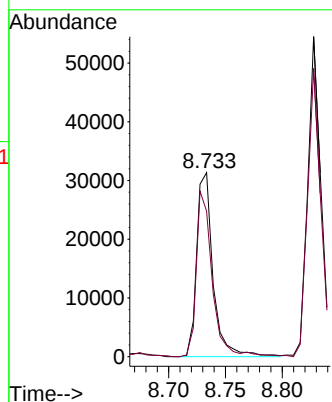
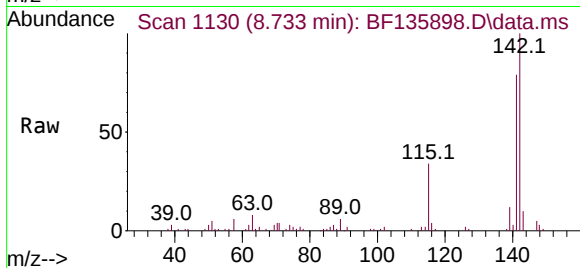
R-4(5-10)DL

Tgt Ion:142 Resp: 31624

Ion Ratio Lower Upper

142 100

141 79.0 70.6 105.8



#38

1-Methylnaphthalene

Concen: 6.883 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135898.D

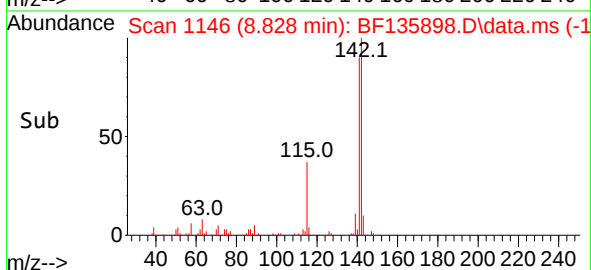
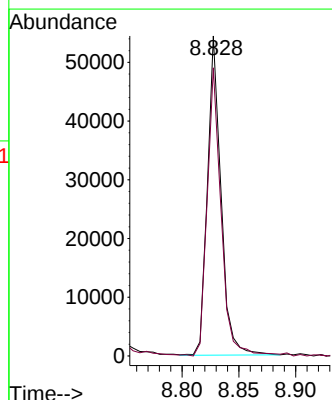
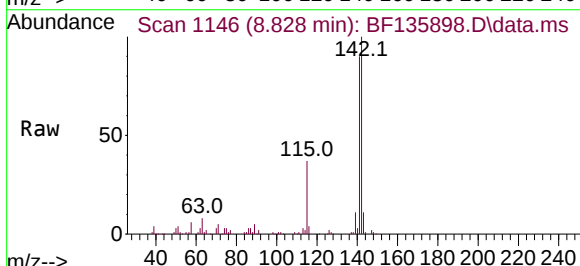
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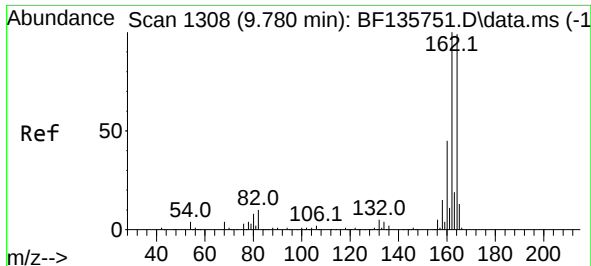
Tgt Ion:142 Resp: 45200

Ion Ratio Lower Upper

142 100

141 90.0 72.7 109.1

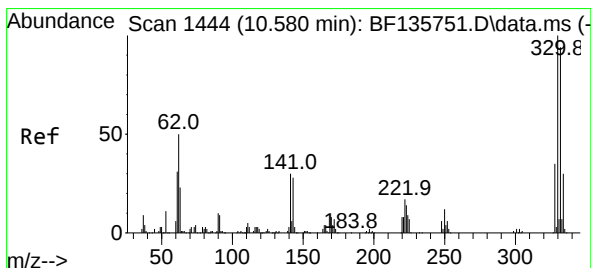
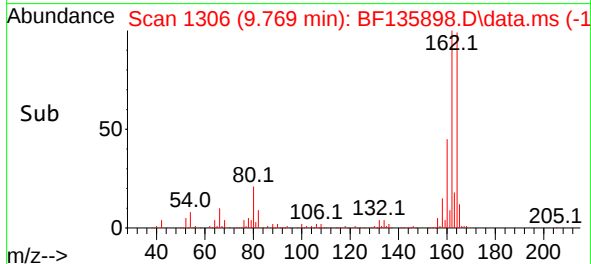
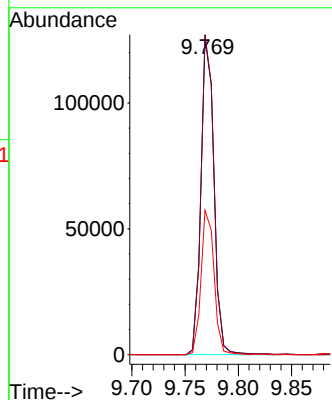
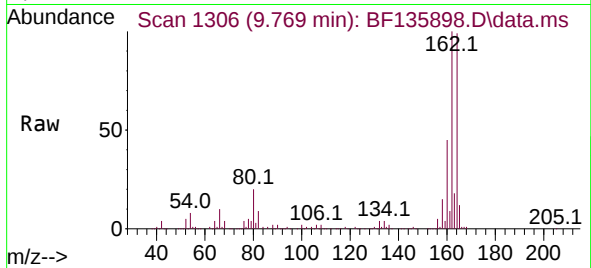




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

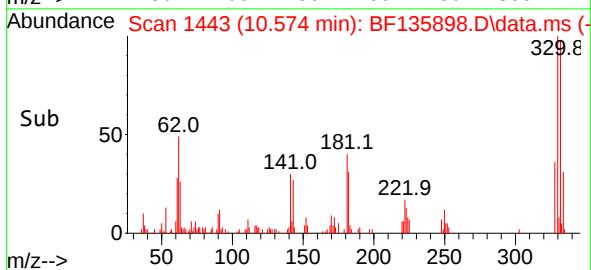
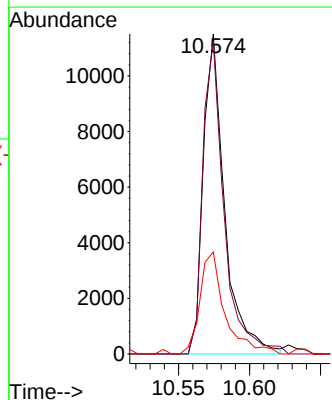
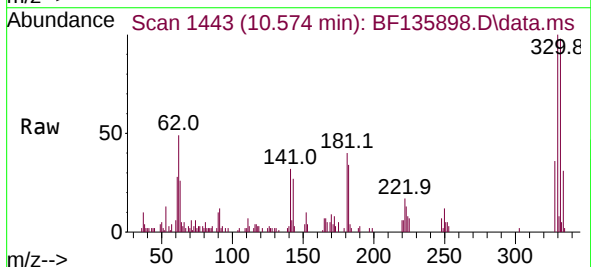
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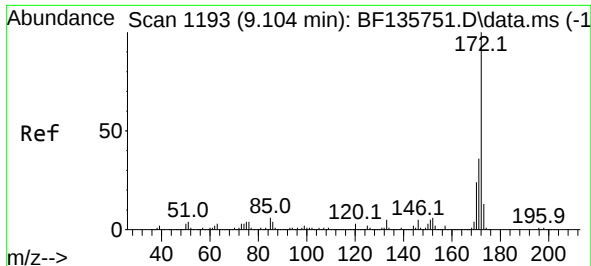
Tgt Ion:164 Resp: 107193
Ion Ratio Lower Upper
164 100
162 101.0 80.8 121.2
160 45.6 36.6 54.8



#42
2,4,6-Tribromophenol
Concen: 11.771 ng
RT: 10.574 min Scan# 1443
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:330 Resp: 12108
Ion Ratio Lower Upper
330 100
332 97.1 75.0 112.4
141 37.1 25.8 38.6

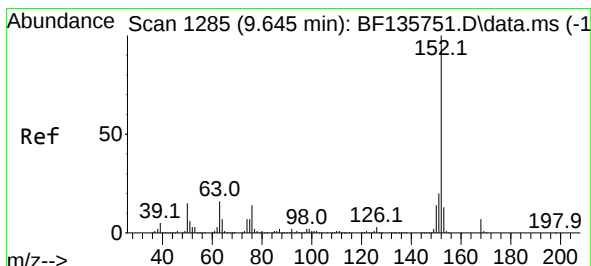
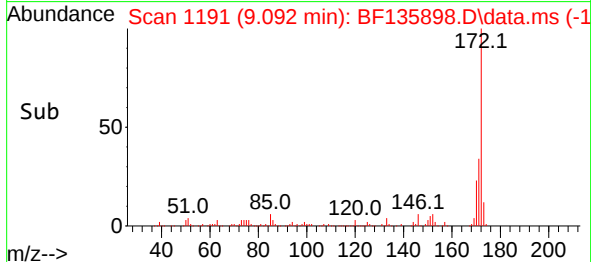
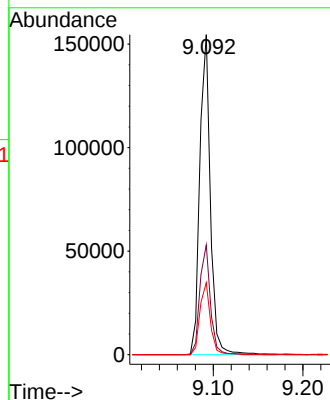
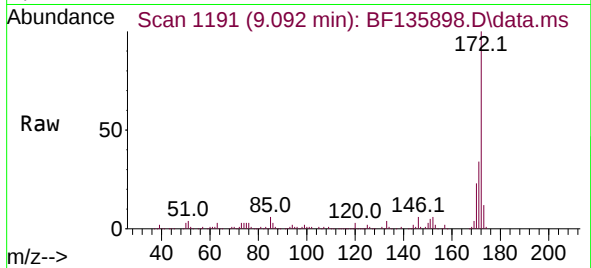




#45
2-Fluorobiphenyl
Concen: 18.453 ng
RT: 9.092 min Scan# 1193
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

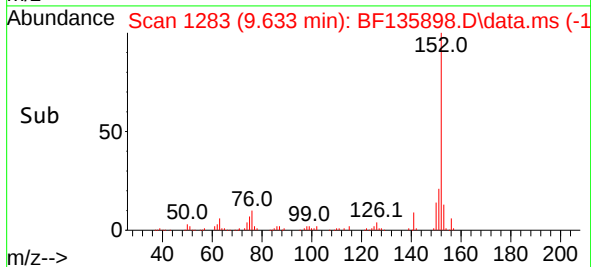
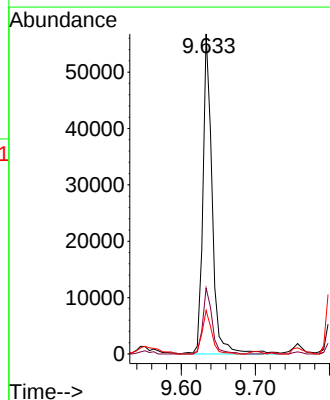
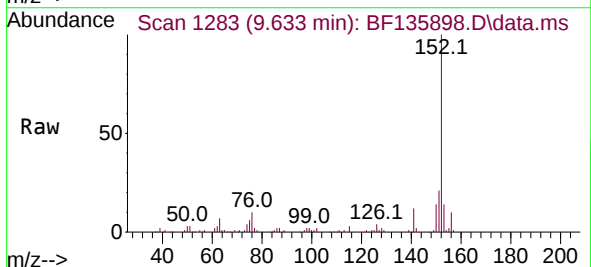
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

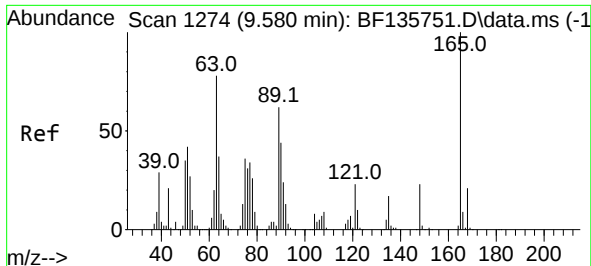
Tgt Ion:172 Resp: 126510
Ion Ratio Lower Upper
172 100
171 34.3 28.4 42.6
170 22.5 18.8 28.2



#49
Acenaphthylene
Concen: 5.071 ng
RT: 9.633 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:152 Resp: 49663
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2
153 13.6 10.2 15.4





#51

2,6-Dinitrotoluene

Concen: 9.520 ng

RT: 9.769 min Scan# 11

Delta R.T. 0.182 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

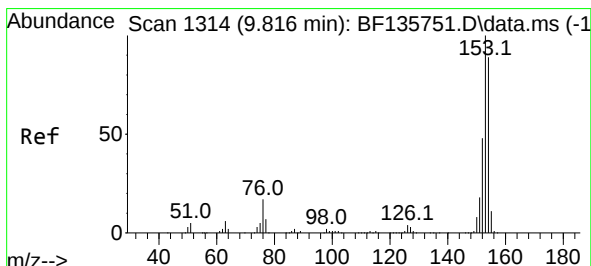
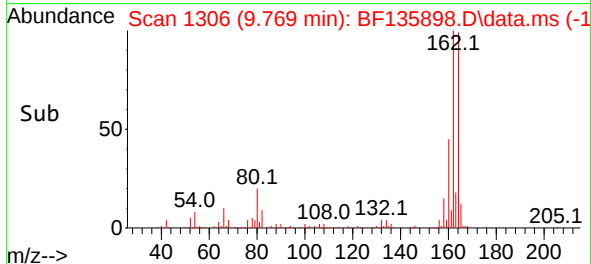
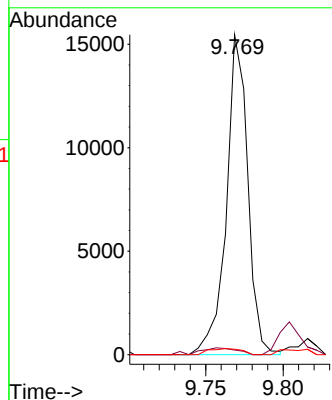
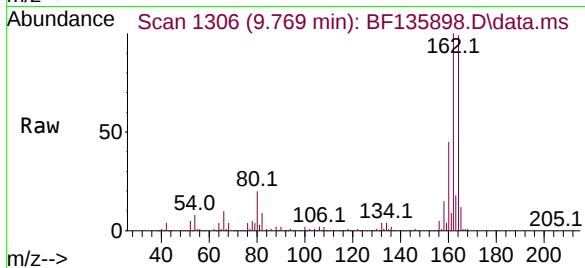
Tgt Ion:165 Resp: 14814

Ion Ratio Lower Upper

165 100

63 1.5 62.2 93.4#

89 1.7 49.6 74.4#



#52

Acenaphthene

Concen: 2.933 ng

RT: 9.804 min Scan# 1312

Delta R.T. -0.012 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

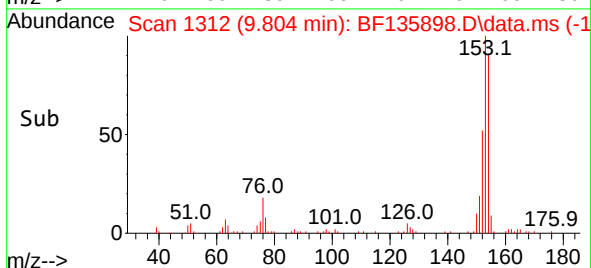
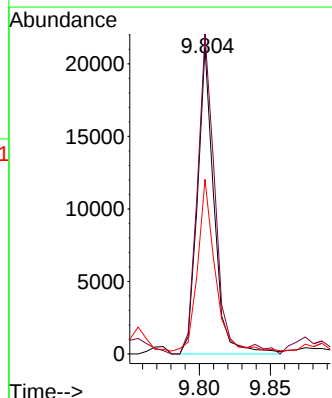
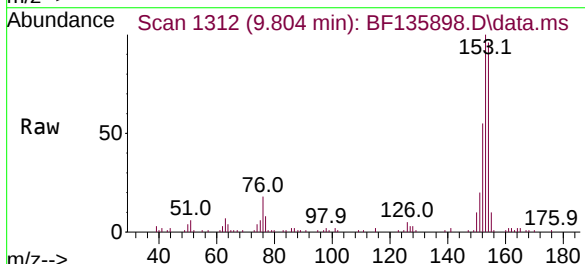
Tgt Ion:154 Resp: 17214

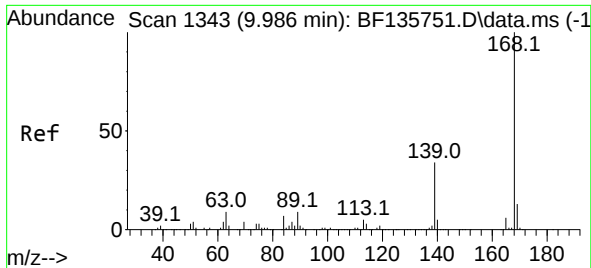
Ion Ratio Lower Upper

154 100

153 104.3 90.1 135.1

152 56.9 43.1 64.7

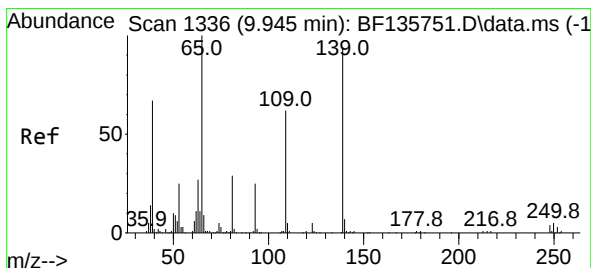
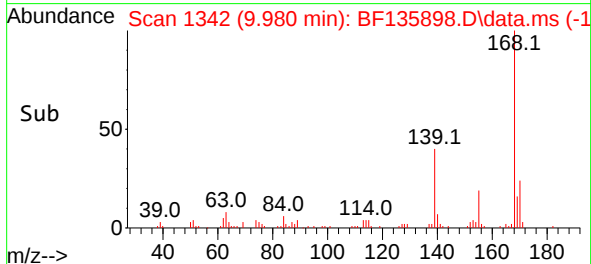
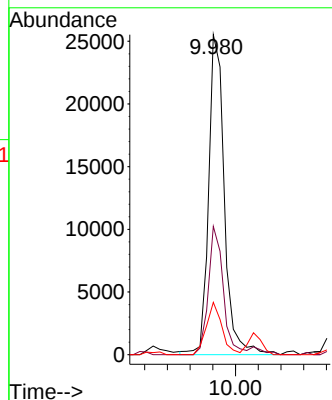
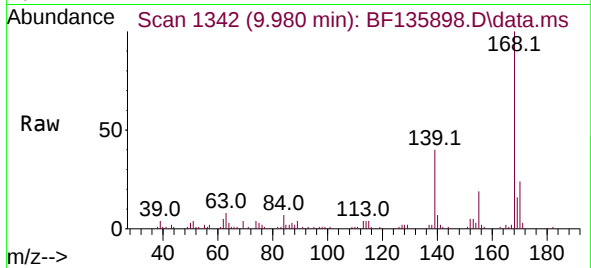




#55
Dibenzenofuran
Concen: 2.774 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

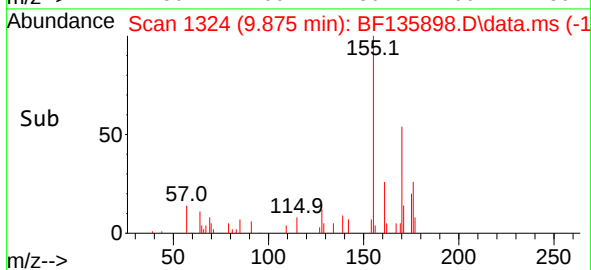
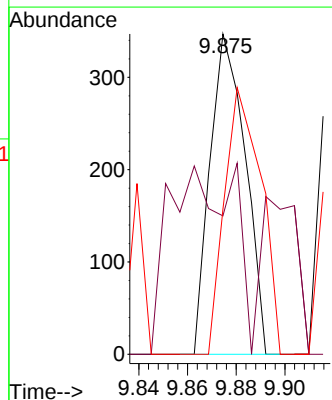
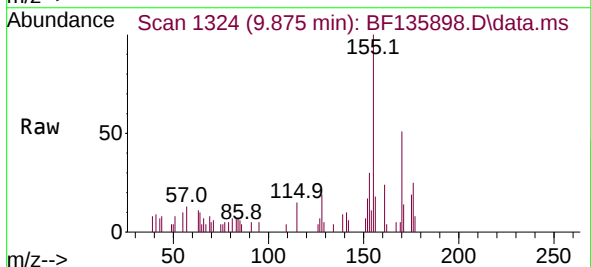
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

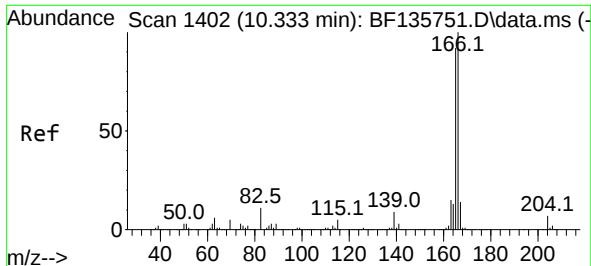
Tgt Ion:168 Resp: 24567
Ion Ratio Lower Upper
168 100
139 40.1 31.0 46.4
169 16.3 10.7 16.1#



#56
4-Nitrophenol
Concen: 5.864 ng
RT: 9.875 min Scan# 1324
Delta R.T. -0.071 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:139 Resp: 349
Ion Ratio Lower Upper
139 100
109 43.2 45.6 85.6#
65 45.2 87.5 127.5#

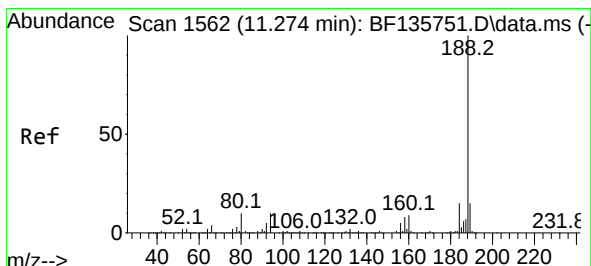
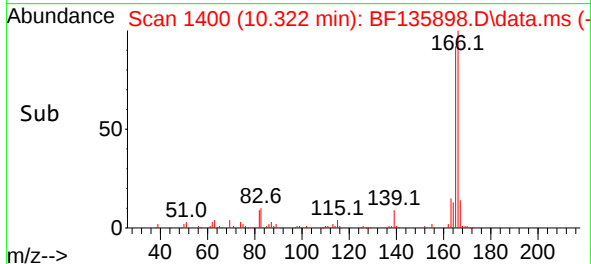
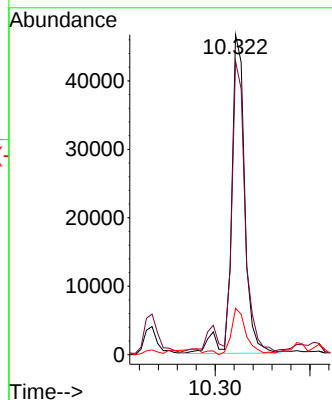
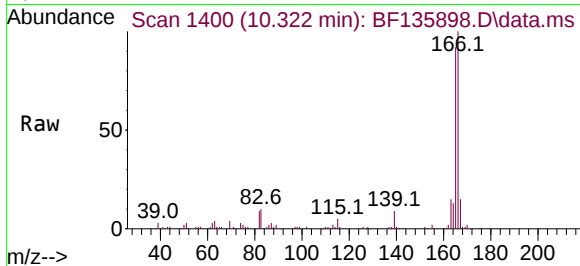




#58
Fluorene
Concen: 6.579 ng
RT: 10.322 min Scan# 1402
Delta R.T. -0.018 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

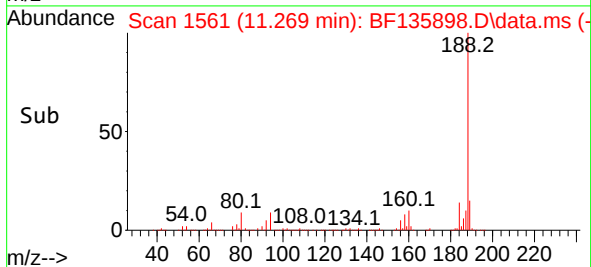
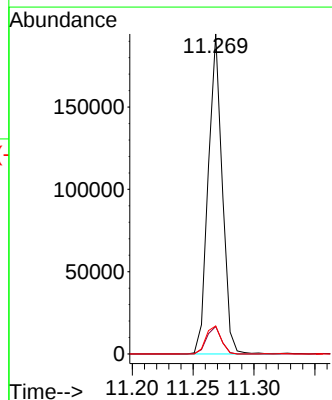
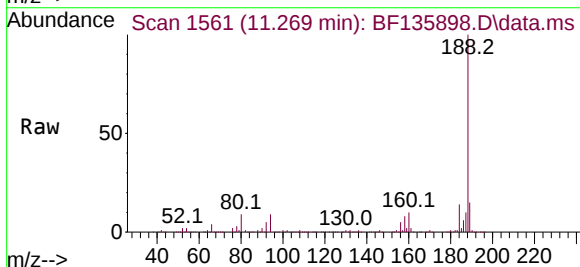
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

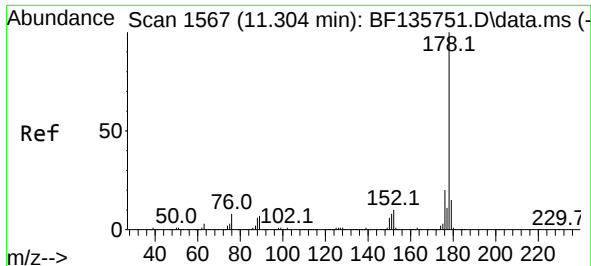
Tgt Ion:166 Resp: 45620
Ion Ratio Lower Upper
166 100
165 91.7 73.4 110.0
167 14.5 11.0 16.6



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:188 Resp: 155264
Ion Ratio Lower Upper
188 100
94 8.6 8.0 12.0
80 8.7 8.3 12.5

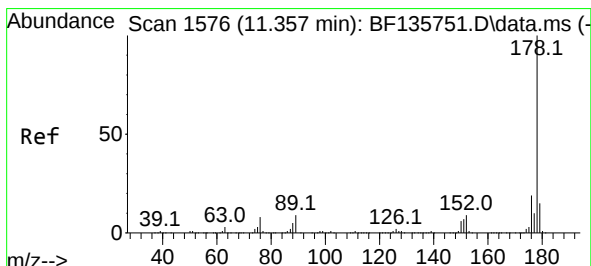
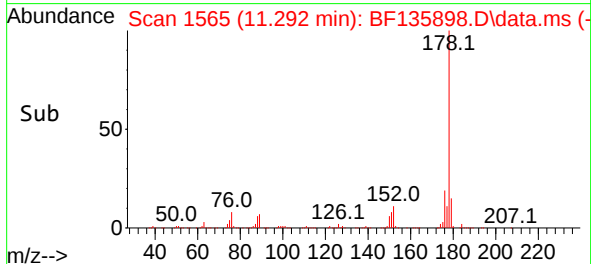
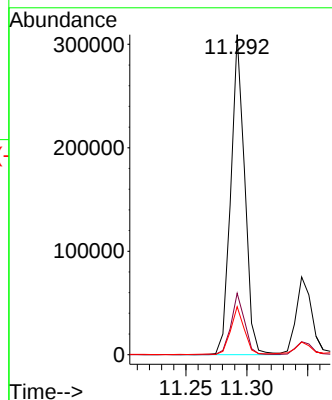
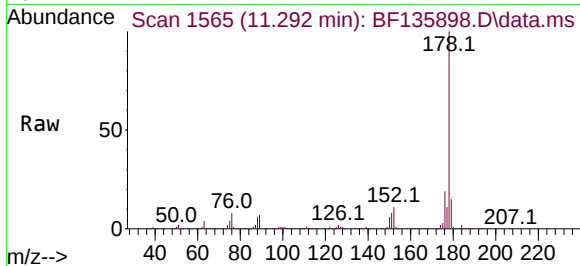




#71
Phenanthrene
Concen: 33.009 ng
RT: 11.292 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

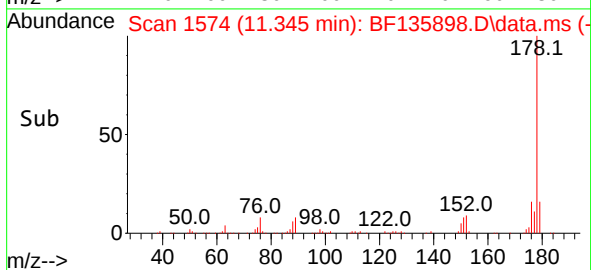
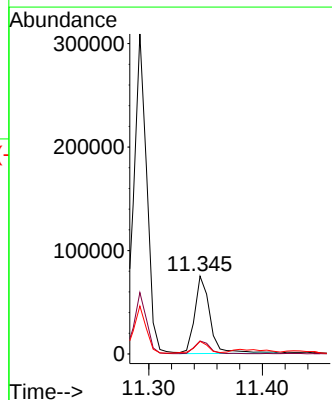
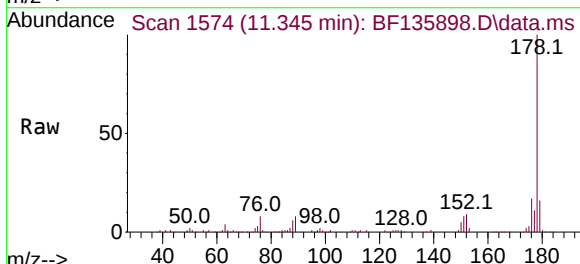
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

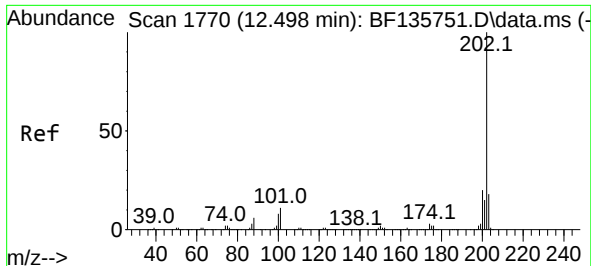
Tgt Ion:178 Resp: 245518
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.0 12.2 18.4



#72
Anthracene
Concen: 9.099 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:178 Resp: 70130
Ion Ratio Lower Upper
178 100
176 16.6 15.1 22.7
179 16.2 12.3 18.5

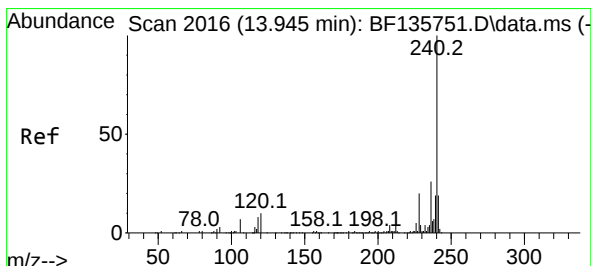
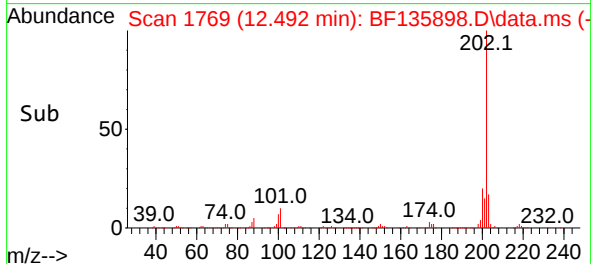
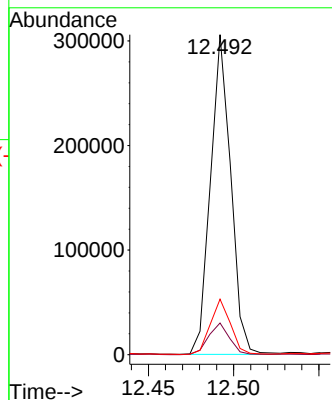
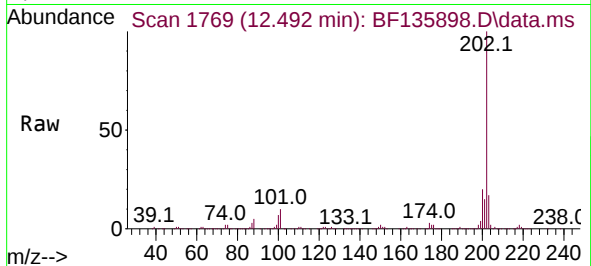




#75
Fluoranthene
Concen: 30.668 ng
RT: 12.492 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

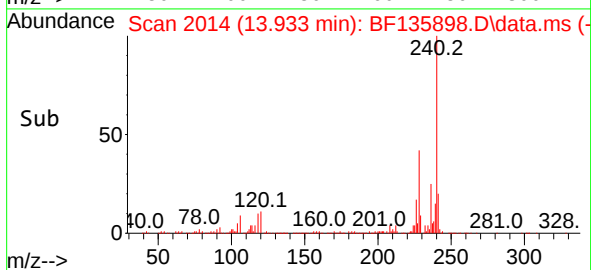
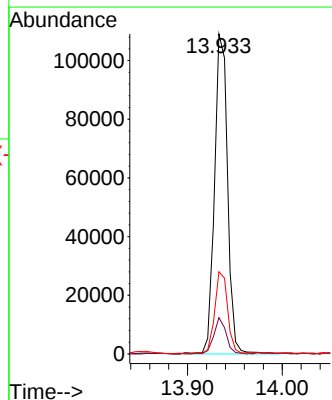
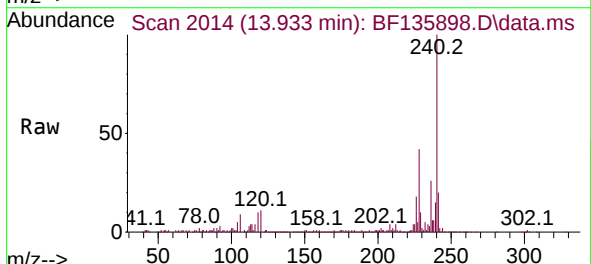
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

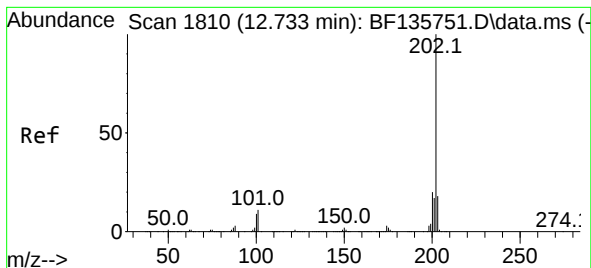
Tgt Ion:202 Resp: 253165
Ion Ratio Lower Upper
202 100
101 9.9 0.0 31.5
203 17.3 0.0 38.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.018 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:240 Resp: 104560
Ion Ratio Lower Upper
240 100
120 11.4 8.2 12.2
236 25.7 21.2 31.8





#78

Pyrene

Concen: 34.320 ng

RT: 12.721 min Scan# 1808

Delta R.T. -0.012 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

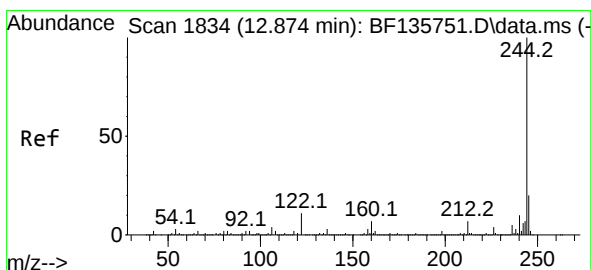
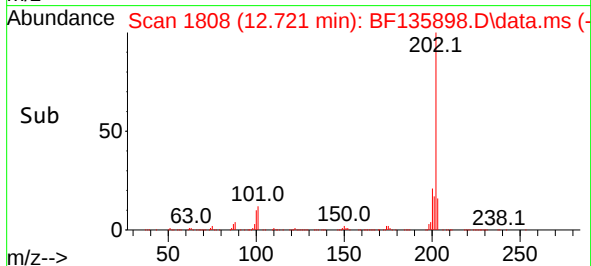
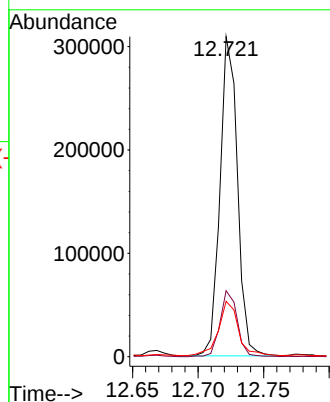
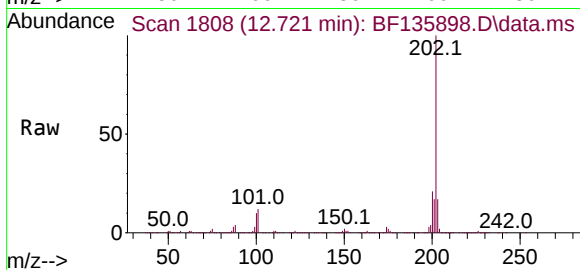
Tgt Ion:202 Resp: 285164

Ion Ratio Lower Upper

202 100

200 20.6 16.1 24.1

203 17.3 14.2 21.2



#79

Terphenyl-d14

Concen: 19.332 ng

RT: 12.863 min Scan# 1832

Delta R.T. -0.018 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

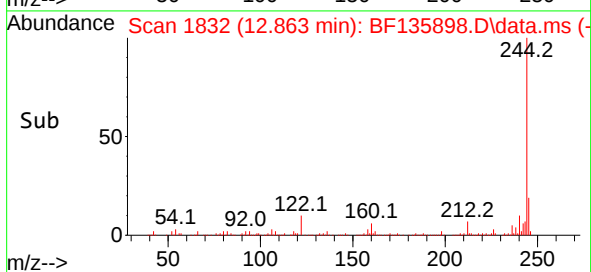
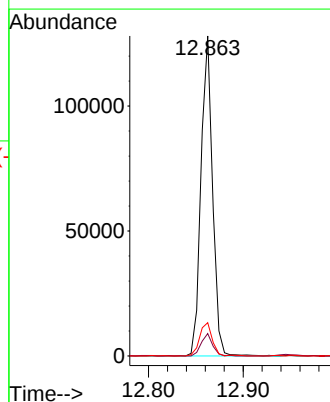
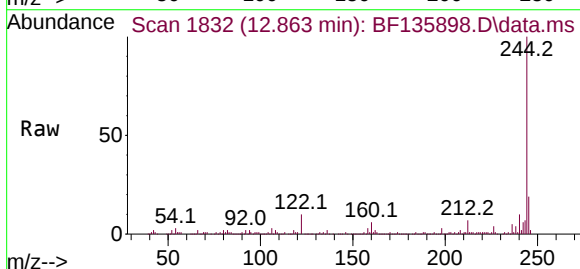
Tgt Ion:244 Resp: 109152

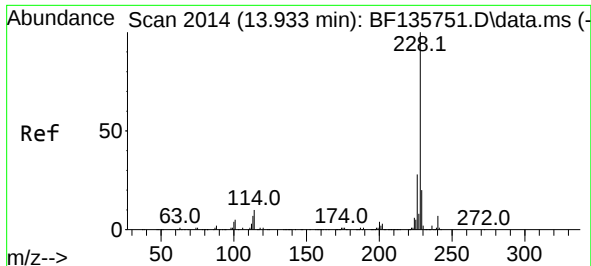
Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 10.4 9.0 13.6

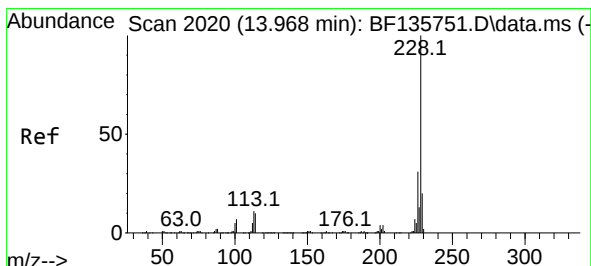
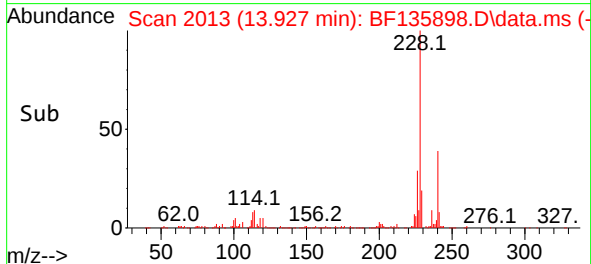
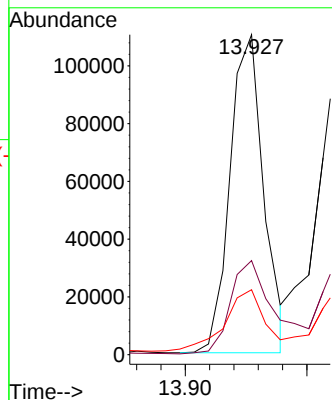
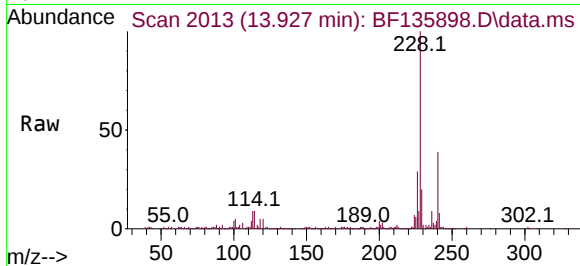




#81
Benzo(a)anthracene
Concen: 15.447 ng
RT: 13.927 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

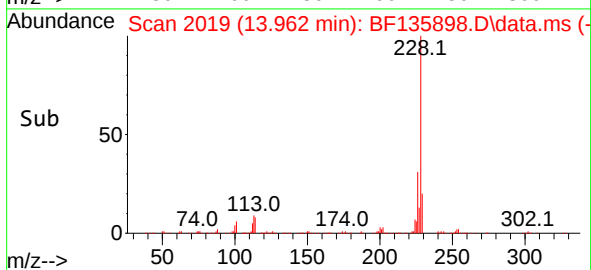
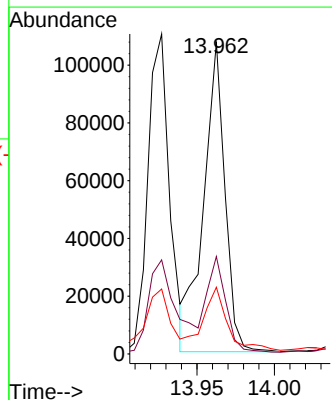
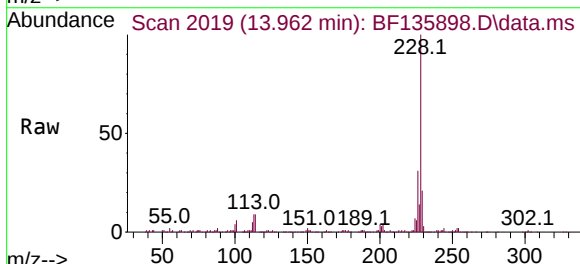
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

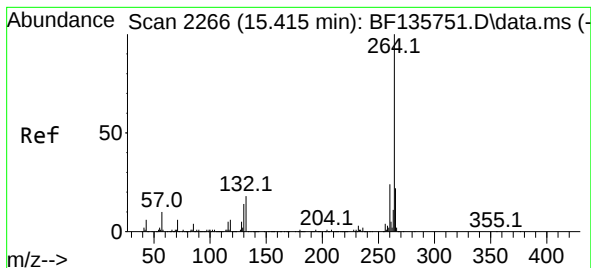
Tgt Ion:228 Resp: 106090
Ion Ratio Lower Upper
228 100
226 29.4 22.2 33.2
229 20.3 16.1 24.1



#83
Chrysene
Concen: 15.467 ng
RT: 13.962 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:228 Resp: 102885
Ion Ratio Lower Upper
228 100
226 31.2 24.4 36.6
229 21.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

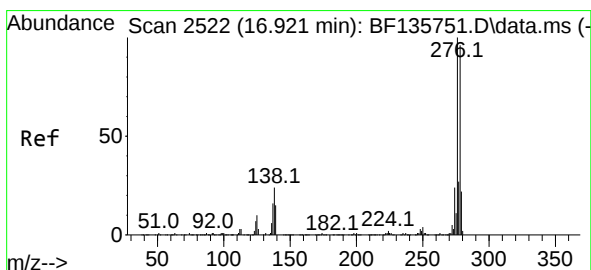
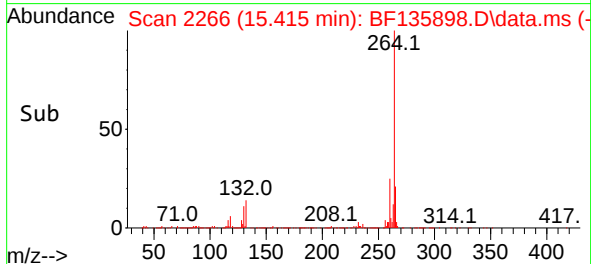
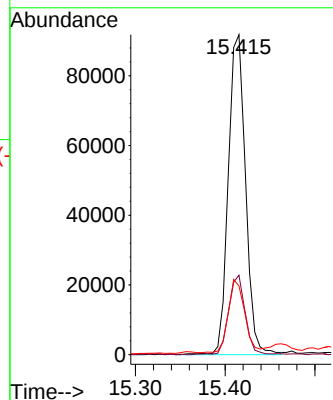
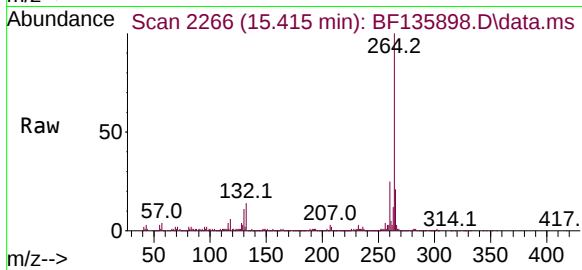
Tgt Ion:264 Resp: 122612

Ion Ratio Lower Upper

264 100

260 24.8 19.2 28.8

265 21.5 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.629 ng

RT: 16.921 min Scan# 2522

Delta R.T. -0.012 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

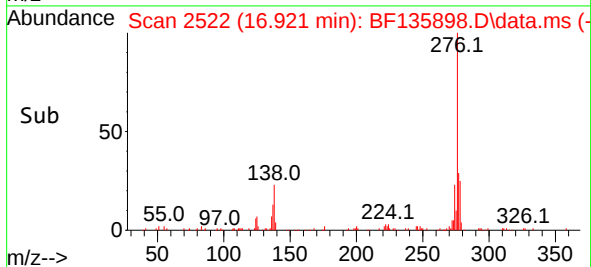
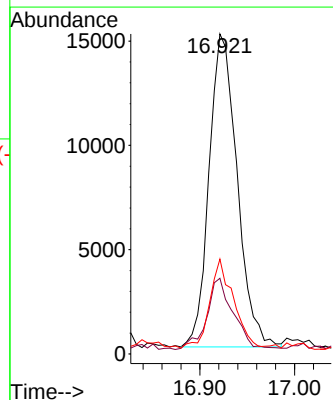
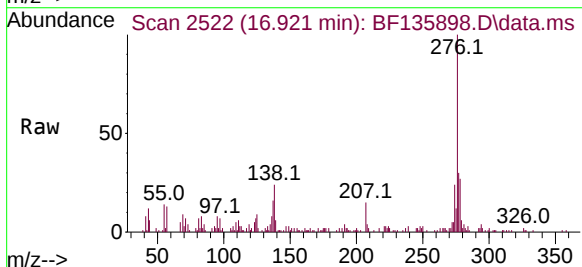
Tgt Ion:276 Resp: 30924

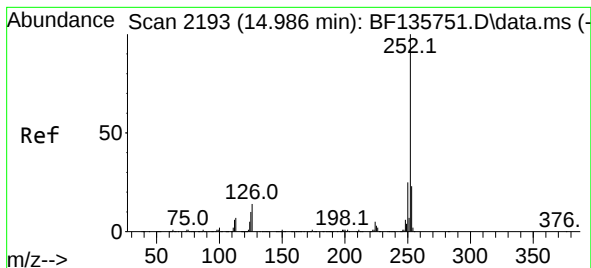
Ion Ratio Lower Upper

276 100

138 21.7 19.8 29.6

277 25.9 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 18.519 ng

RT: 14.986 min Scan# 2193

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

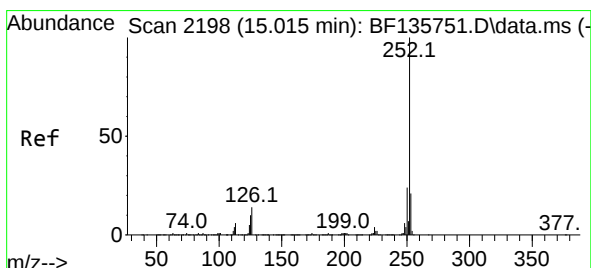
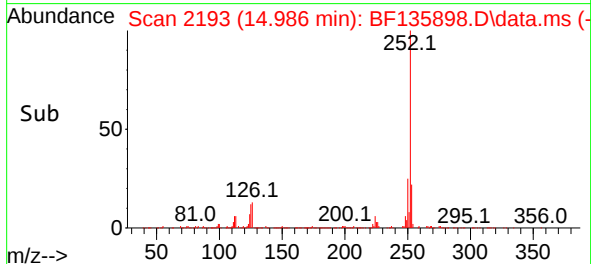
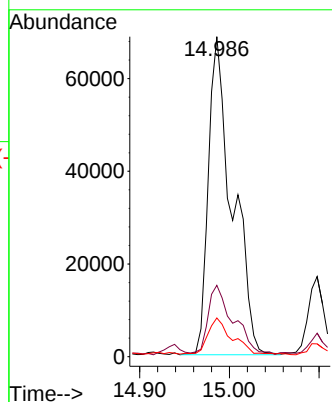
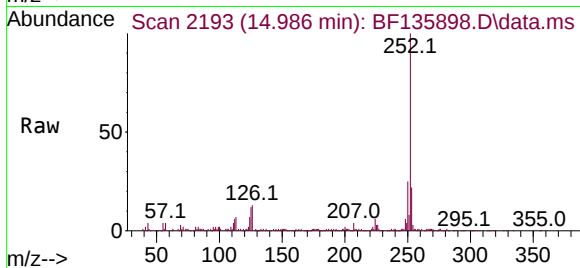
Tgt Ion:252 Resp: 127079

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

125 12.1 8.2 12.2



#89

Benzo(k)fluoranthene

Concen: 19.075 ng

RT: 14.986 min Scan# 2193

Delta R.T. -0.035 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

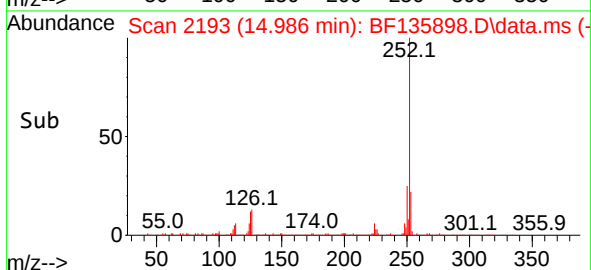
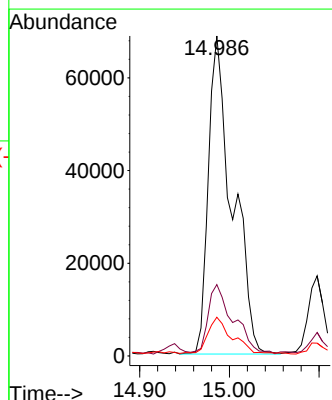
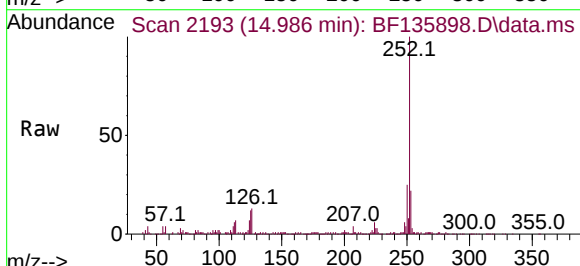
Tgt Ion:252 Resp: 127079

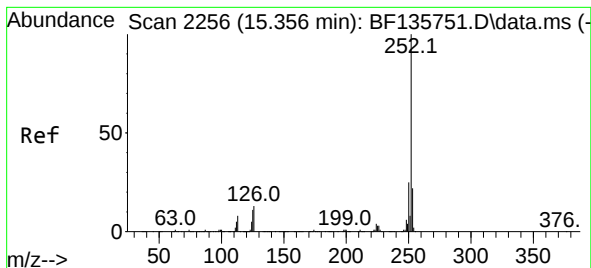
Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 12.1 8.3 12.5





#90

Benzo(a)pyrene

Concen: 13.803 ng

RT: 15.357 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

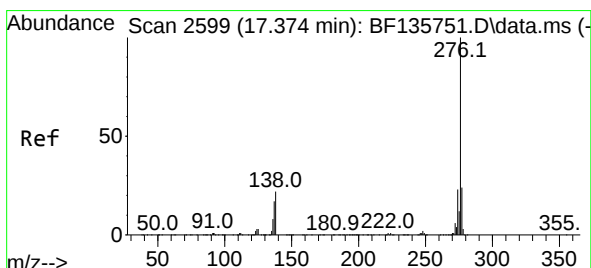
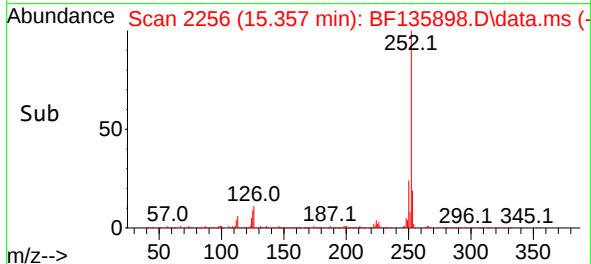
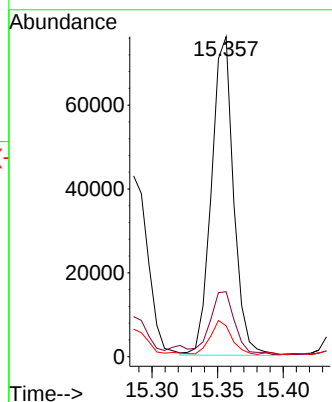
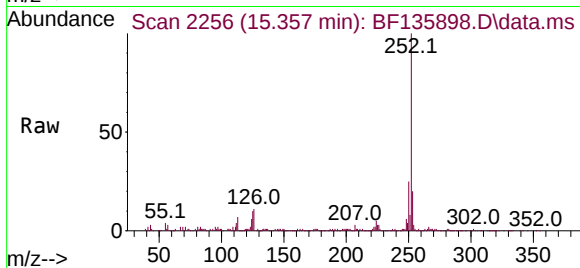
Tgt Ion:252 Resp: 89070

Ion Ratio Lower Upper

252 100

253 20.3 17.4 26.2

125 9.6 8.8 13.2



#92

Benzo(g,h,i)perylene

Concen: 5.596 ng

RT: 17.380 min Scan# 2600

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Tgt Ion:276 Resp: 31480

Ion Ratio Lower Upper

276 100

277 26.4 19.4 29.2

138 22.3 17.3 25.9

