

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121824\
 Data File : BF140916.D
 Acq On : 18 Dec 2024 19:49
 Operator : RC/JU
 Sample : P5268-01DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-12122024DL

Quant Time: Dec 19 00:17:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 16 16:59:50 2024
 Response via : Initial Calibration

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

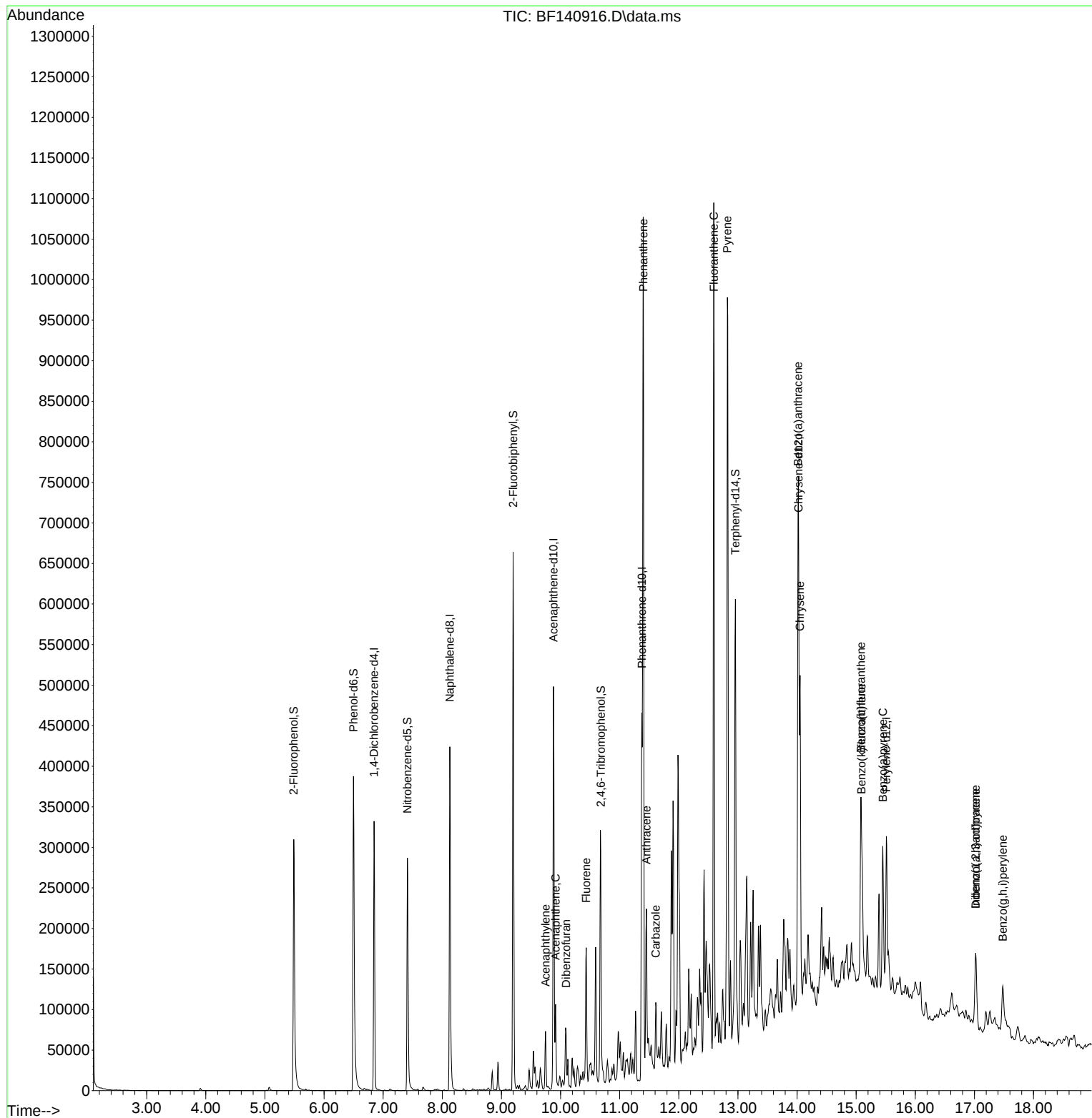
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	72840	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	275124	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	148493	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	231068	20.000	ng	0.00
76) Chrysene-d12	14.027	240	164353	20.000	ng	0.00
86) Perylene-d12	15.510	264	118773	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	152211	34.400	ng	0.00
7) Phenol-d6	6.498	99	231567	39.512	ng	0.00
23) Nitrobenzene-d5	7.410	82	143312	26.061	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	51443	29.291	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	297884	27.580	ng	0.00
79) Terphenyl-d14	12.957	244	249731	23.960	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.745	152	38339	2.888	ng	98
52) Acenaphthene	9.916	154	31670	3.735	ng	100
55) Dibenzofuran	10.092	168	32540	2.476	ng	# 98
58) Fluorene	10.434	166	71653	6.610	ng	98
71) Phenanthrene	11.398	178	552102	46.463	ng	99
72) Anthracene	11.451	178	116001	9.913	ng	98
73) Carbazole	11.610	167	36977	3.226	ng	98
75) Fluoranthene	12.592	202	580055	42.387	ng	99
78) Pyrene	12.822	202	554700	37.954	ng	99
81) Benzo(a)anthracene	14.016	228	248028	21.293	ng	96
83) Chrysene	14.051	228	202969	19.162	ng	98
87) Indeno(1,2,3-cd)pyrene	17.021	276	54867	7.403	ng	97
88) Benzo(b)fluoranthene	15.080	252	143414m	17.395	ng	
89) Benzo(k)fluoranthene	15.092	252	63893m	9.034	ng	
90) Benzo(a)pyrene	15.451	252	108503	16.807	ng	98
91) Dibenzo(a,h)anthracene	17.021	278	16463	2.681	ng	# 89
92) Benzo(g,h,i)perylene	17.480	276	53697	8.592	ng	96

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

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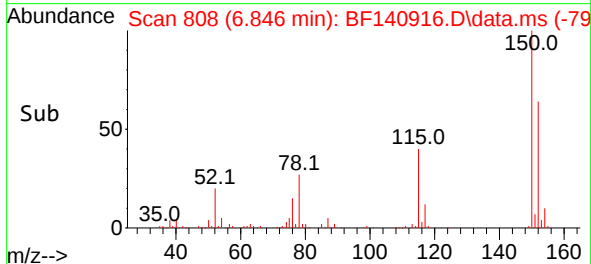
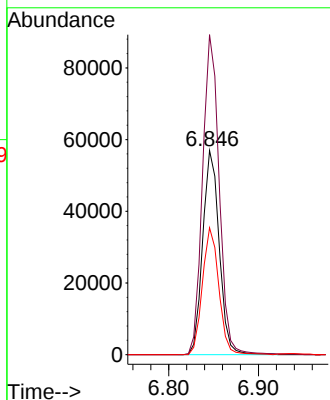
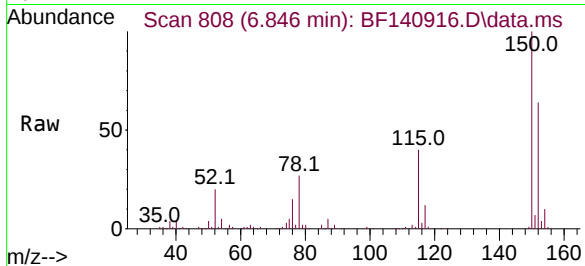




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 809
Delta R.T. -0.005 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

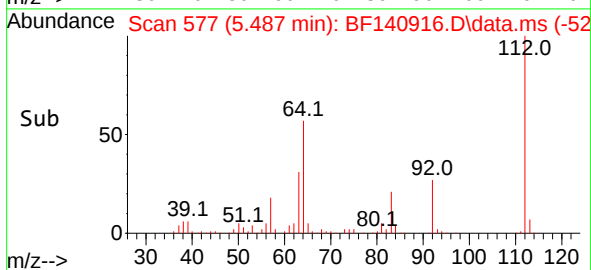
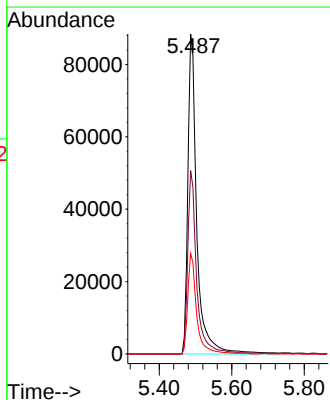
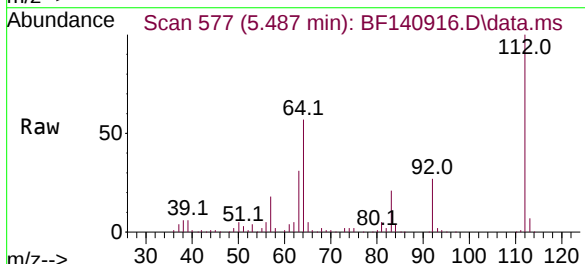
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

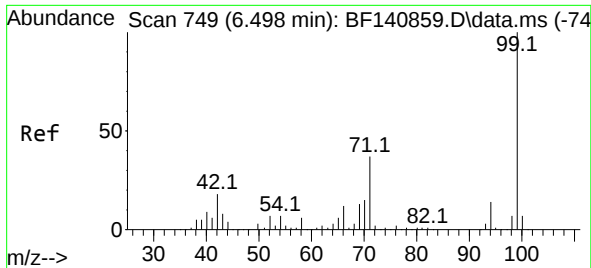
Tgt Ion:152 Resp: 72840
Ion Ratio Lower Upper
152 100
150 156.7 127.9 191.9
115 62.1 48.0 72.0



#5
2-Fluorophenol
Concen: 34.400 ng
RT: 5.487 min Scan# 577
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:112 Resp: 152211
Ion Ratio Lower Upper
112 100
64 57.3 46.1 69.1
63 31.4 24.9 37.3

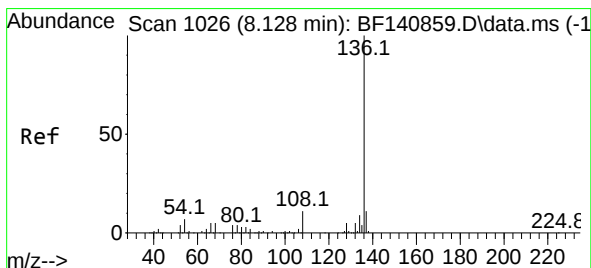
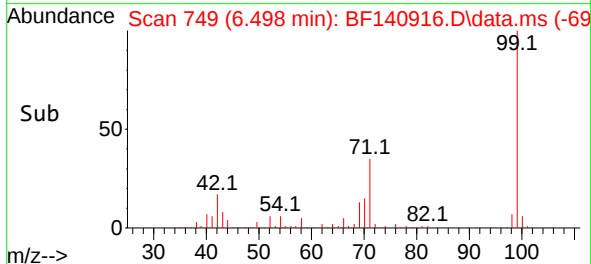
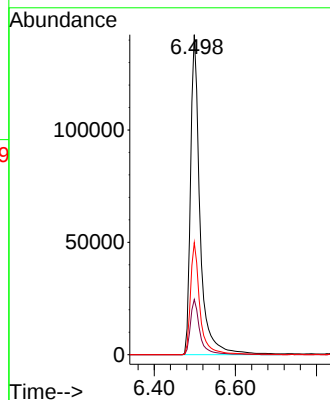
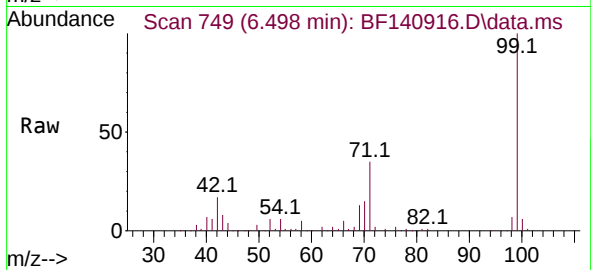




#7
Phenol-d6
Concen: 39.512 ng
RT: 6.498 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

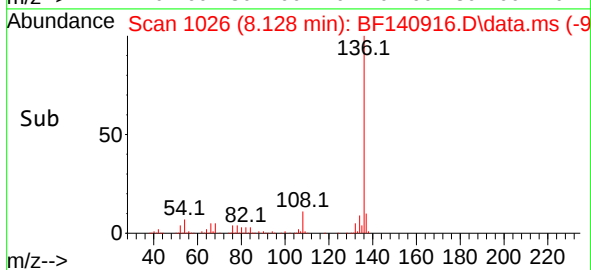
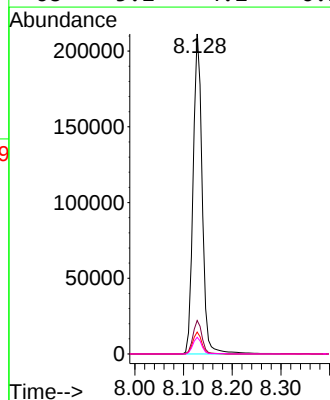
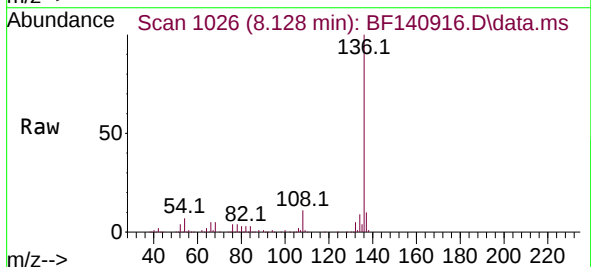
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

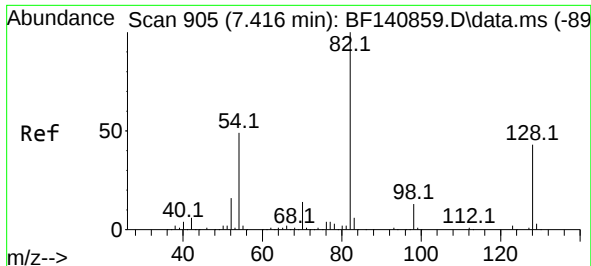
Tgt Ion: 99 Resp: 231567
Ion Ratio Lower Upper
99 100
42 17.3 14.3 21.5
71 35.0 29.9 44.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion: 136 Resp: 275124
Ion Ratio Lower Upper
136 100
137 10.5 9.0 13.4
54 6.8 5.6 8.4
68 5.2 4.2 6.2





#23

Nitrobenzene-d5

Concen: 26.061 ng

RT: 7.410 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

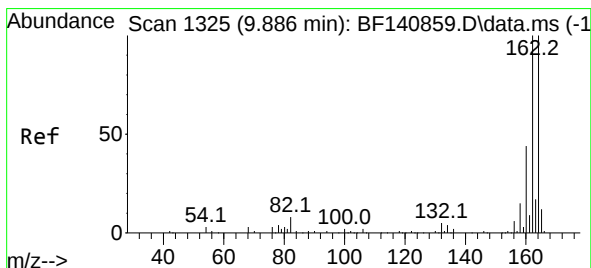
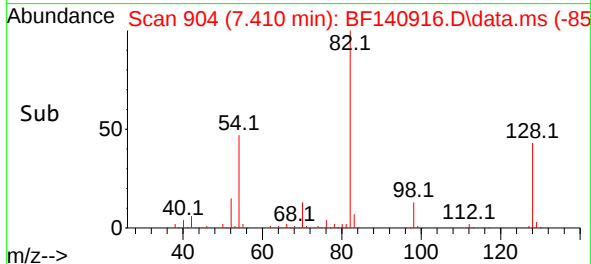
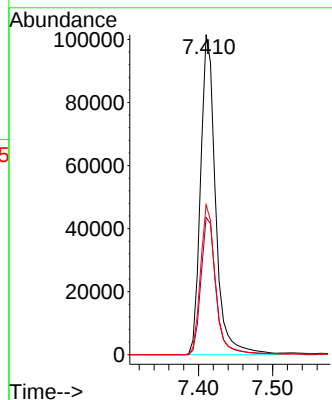
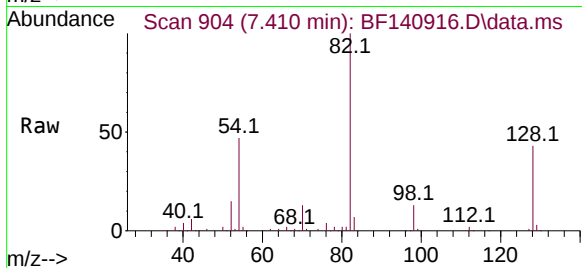
Tgt Ion: 82 Resp: 143312

Ion Ratio Lower Upper

82 100

128 42.8 34.4 51.6

54 46.9 38.8 58.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.881 min Scan# 1324

Delta R.T. -0.006 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

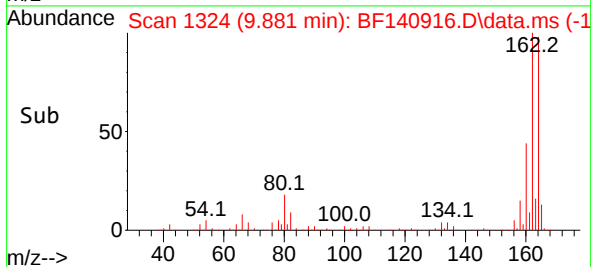
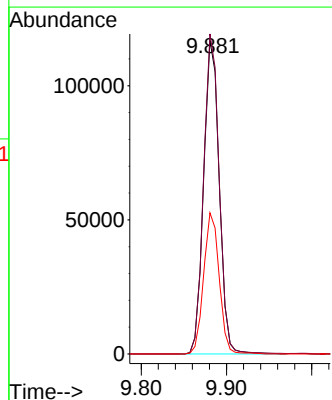
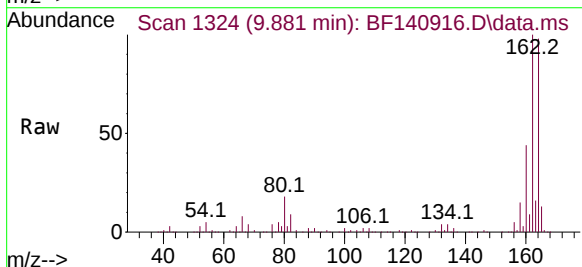
Tgt Ion:164 Resp: 148493

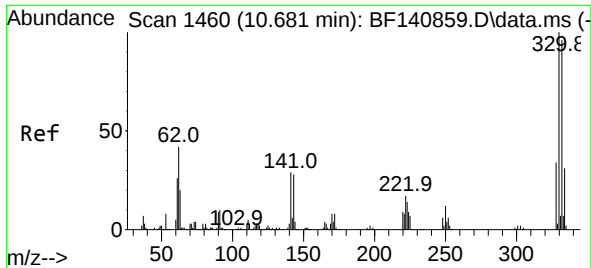
Ion Ratio Lower Upper

164 100

162 102.1 79.9 119.9

160 45.0 35.2 52.8

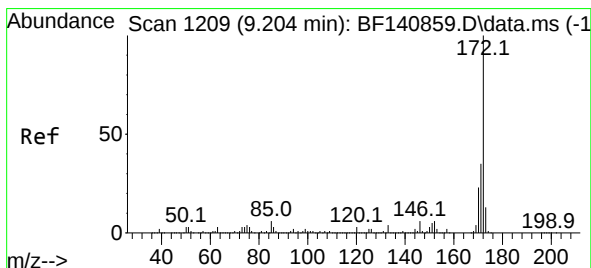
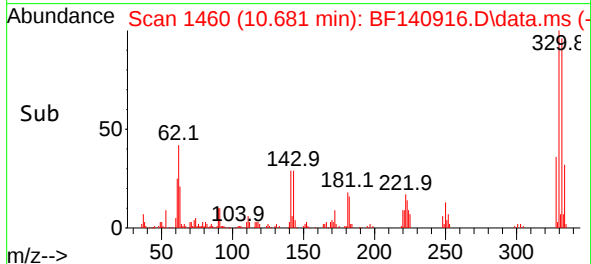
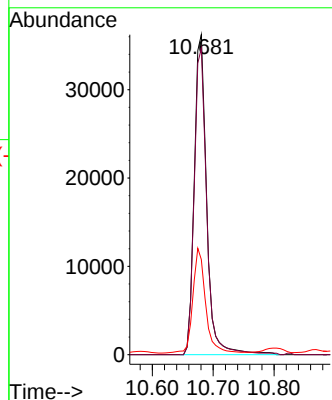
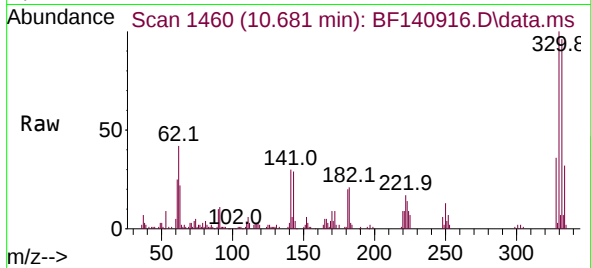




#42
2,4,6-Tribromophenol
Concen: 29.291 ng
RT: 10.681 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

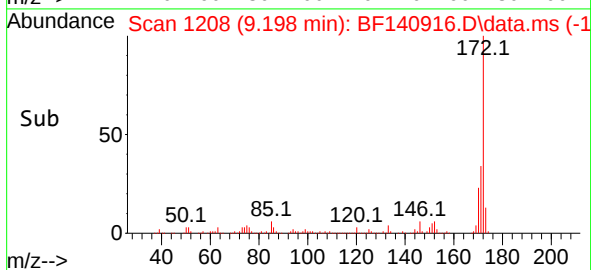
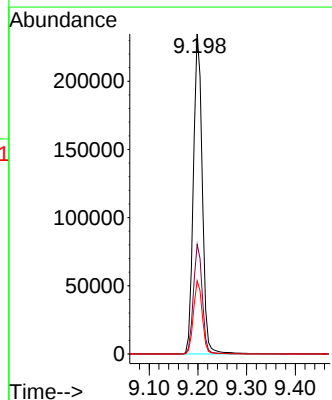
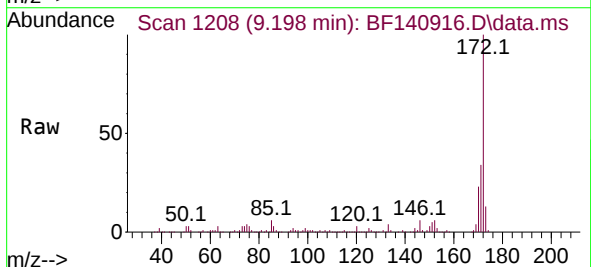
Instrument :
BNA_F
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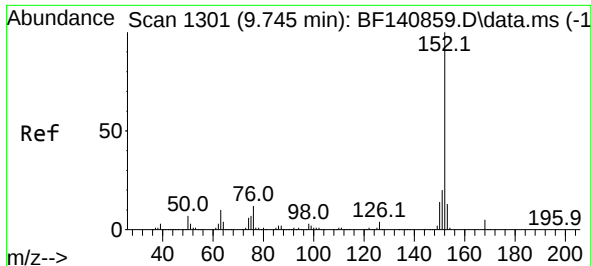
Tgt Ion:330 Resp: 51443
Ion Ratio Lower Upper
330 100
332 96.2 76.2 114.4
141 33.4 24.9 37.3



#45
2-Fluorobiphenyl
Concen: 27.580 ng
RT: 9.198 min Scan# 1208
Delta R.T. -0.006 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:172 Resp: 297884
Ion Ratio Lower Upper
172 100
171 34.3 28.4 42.6
170 22.9 18.6 28.0





#49

Acenaphthylene

Concen: 2.888 ng

RT: 9.745 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

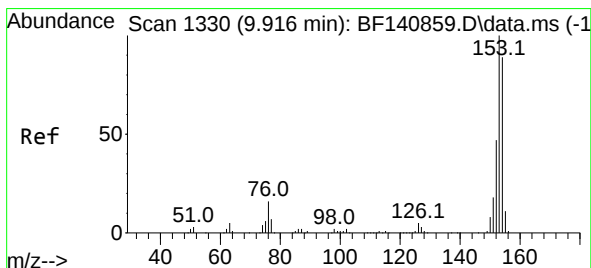
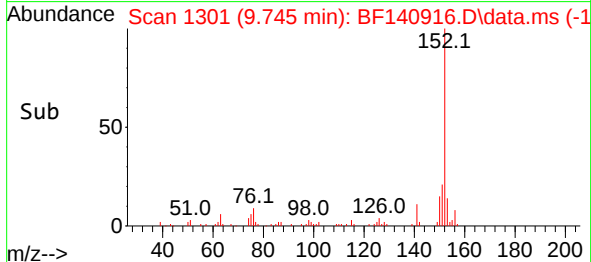
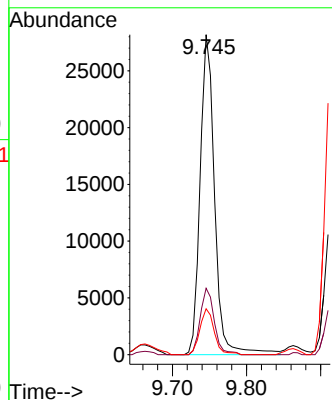
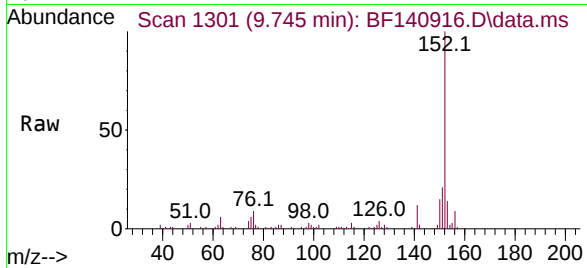
Tgt Ion:152 Resp: 38339

Ion Ratio Lower Upper

152 100

151 20.8 16.0 24.0

153 14.4 10.6 16.0



#52

Acenaphthene

Concen: 3.735 ng

RT: 9.916 min Scan# 1330

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

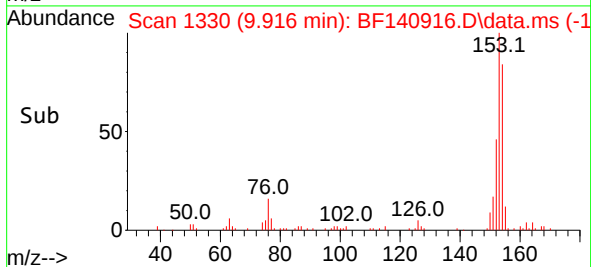
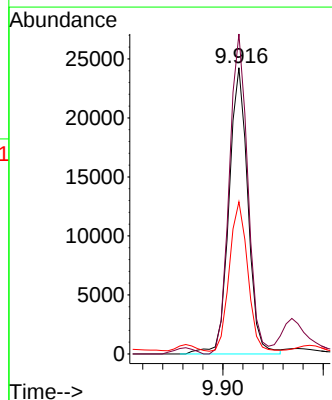
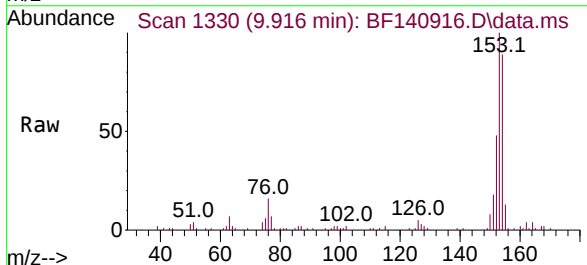
Tgt Ion:154 Resp: 31670

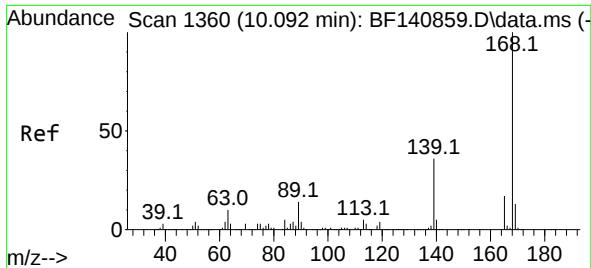
Ion Ratio Lower Upper

154 100

153 111.8 89.9 134.9

152 53.2 42.6 63.8

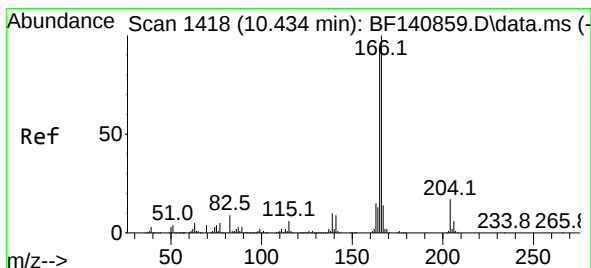
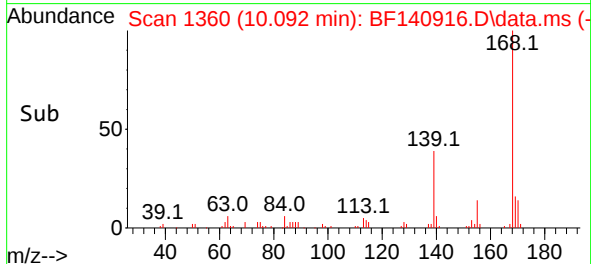
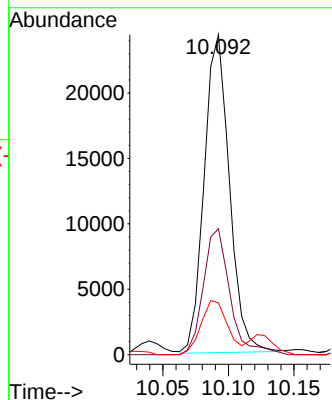
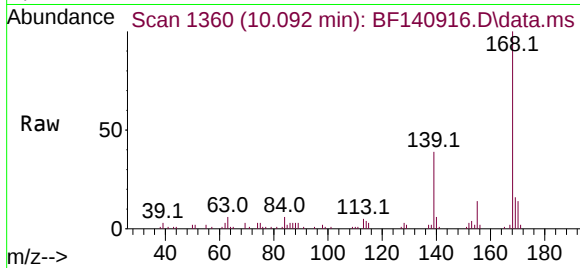




#55
Dibenzenofuran
Concen: 2.476 ng
RT: 10.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

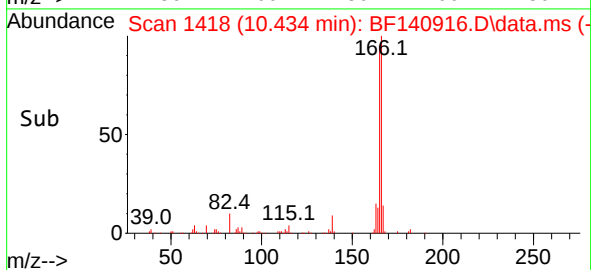
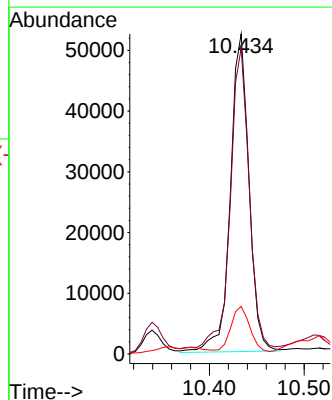
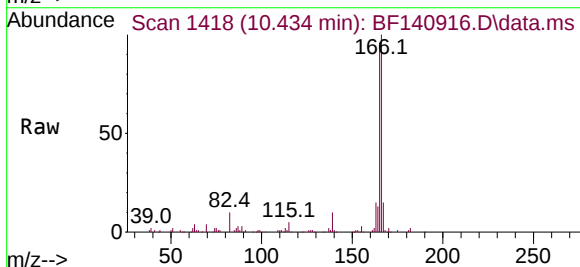
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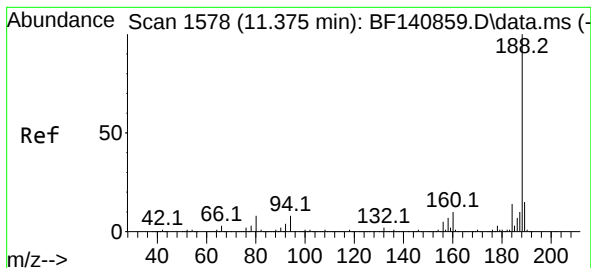
Tgt Ion:168 Resp: 32540
Ion Ratio Lower Upper
168 100
139 39.4 31.1 46.7
169 16.2 10.6 16.0#



#58
Fluorene
Concen: 6.610 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:166 Resp: 71653
Ion Ratio Lower Upper
166 100
165 95.6 75.1 112.7
167 14.9 11.1 16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.375 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

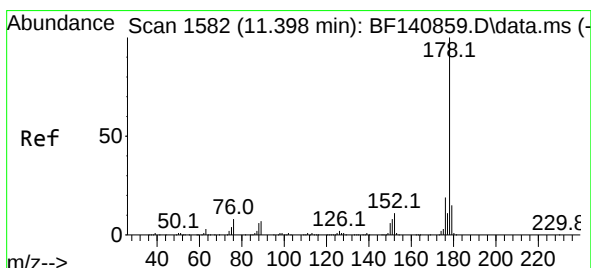
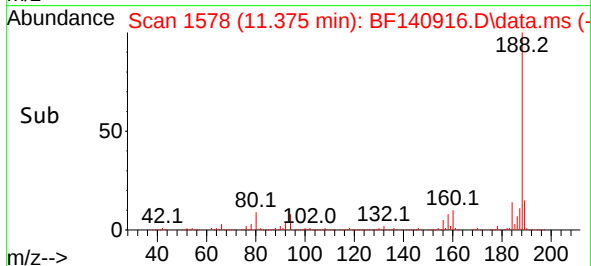
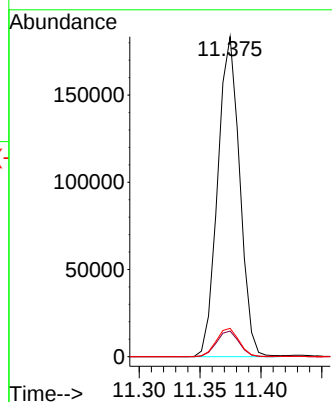
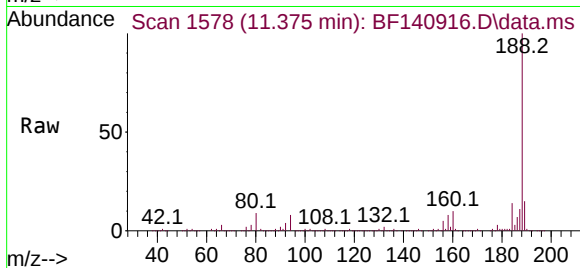
Tgt Ion:188 Resp: 231068

Ion Ratio Lower Upper

188 100

94 8.0 6.4 9.6

80 8.8 6.8 10.2



#71

Phenanthrene

Concen: 46.463 ng

RT: 11.398 min Scan# 1582

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

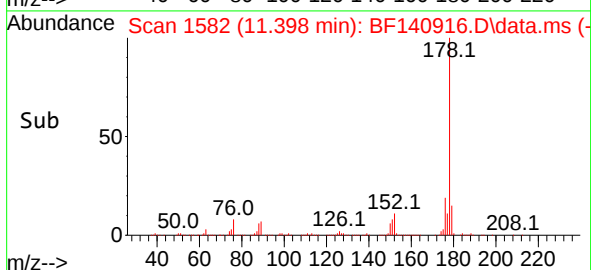
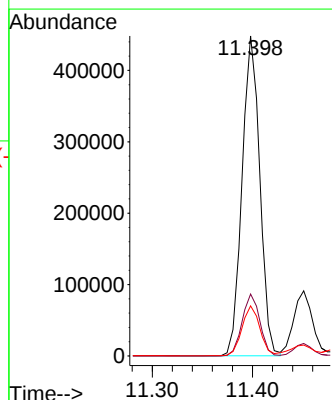
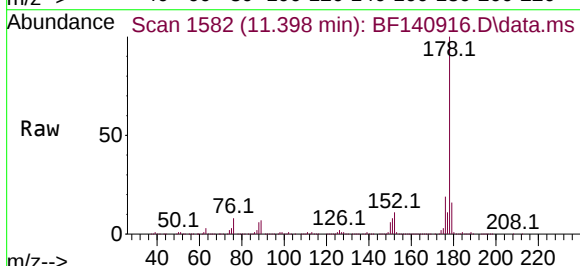
Tgt Ion:178 Resp: 552102

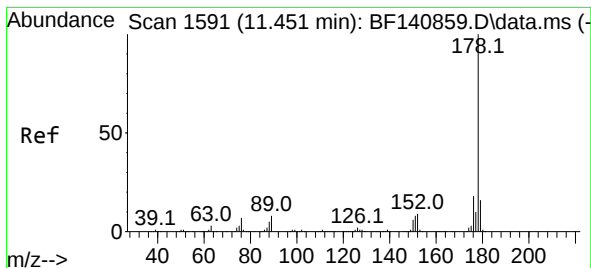
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.6 12.1 18.1





#72

Anthracene

Concen: 9.913 ng

RT: 11.451 min Scan# 1591

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

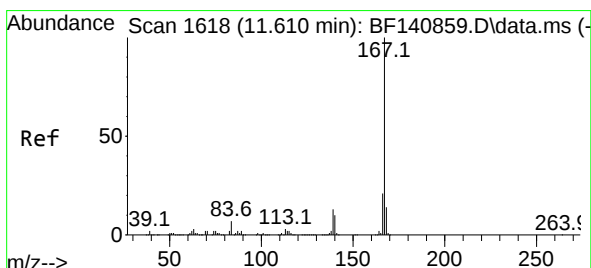
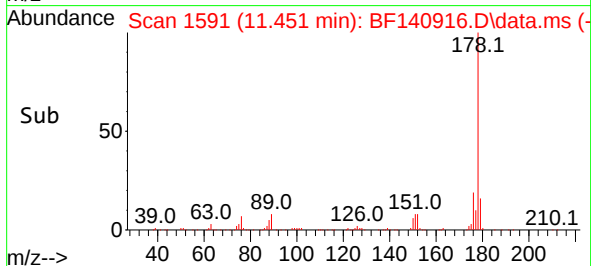
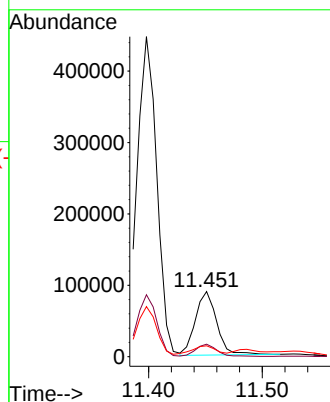
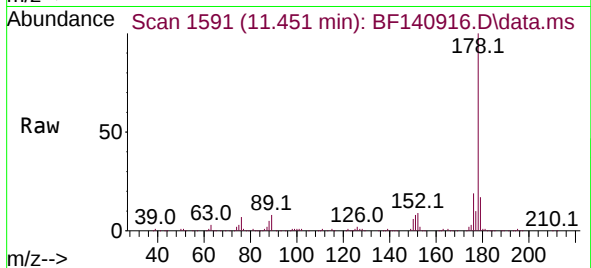
Tgt Ion:178 Resp: 116001

Ion Ratio Lower Upper

178 100

176 19.1 14.6 22.0

179 16.8 12.6 18.8



#73

Carbazole

Concen: 3.226 ng

RT: 11.610 min Scan# 1618

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

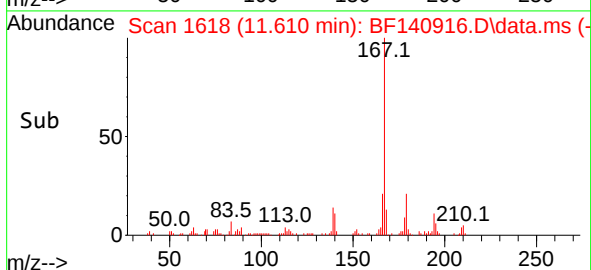
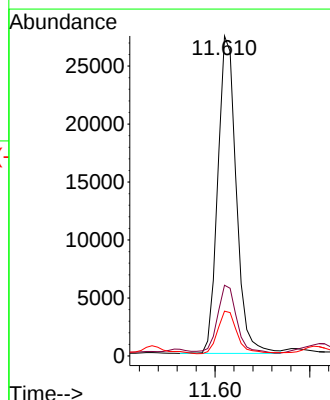
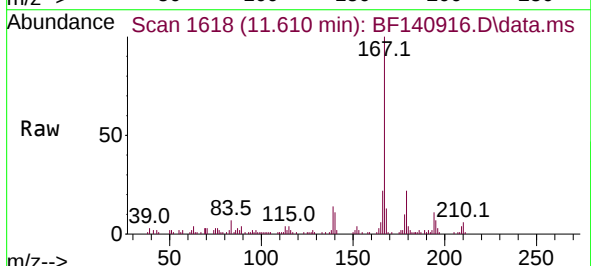
Tgt Ion:167 Resp: 36977

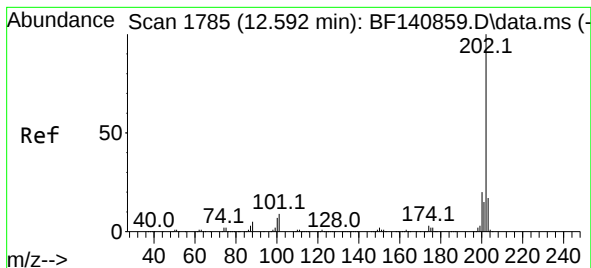
Ion Ratio Lower Upper

167 100

166 22.1 17.0 25.6

139 14.0 10.2 15.2

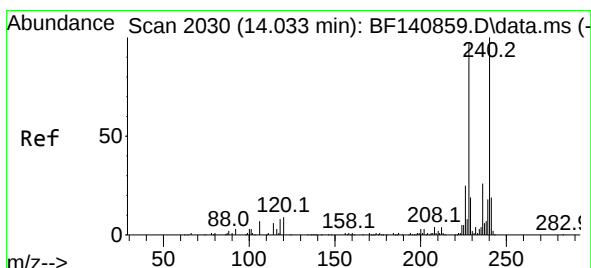
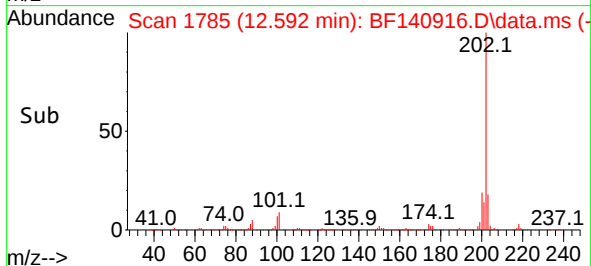
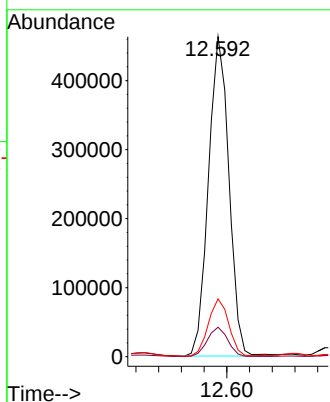
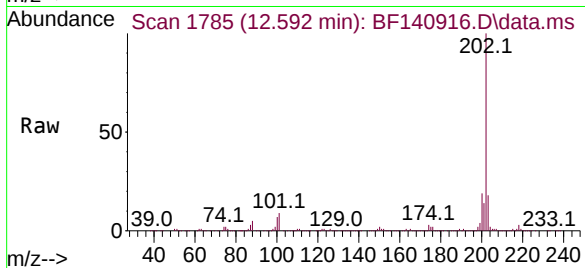




#75
Fluoranthene
Concen: 42.387 ng
RT: 12.592 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

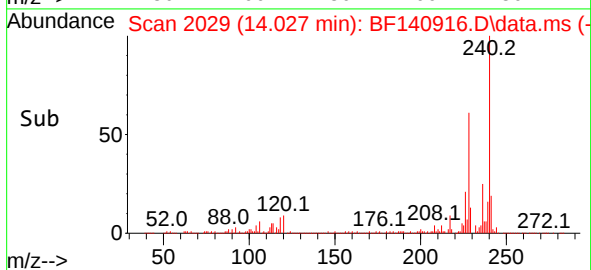
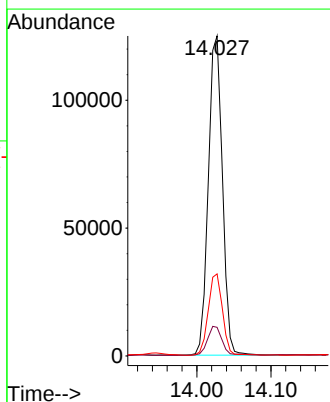
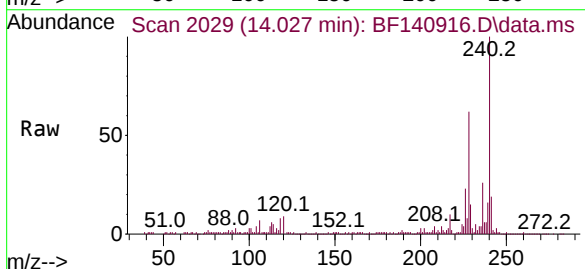
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

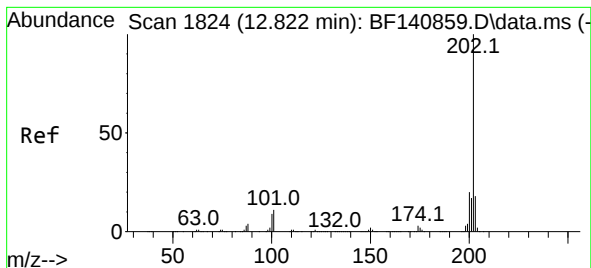
Tgt Ion:202 Resp: 580055
Ion Ratio Lower Upper
202 100
101 9.2 0.0 29.3
203 18.0 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:240 Resp: 164353
Ion Ratio Lower Upper
240 100
120 8.9 7.6 11.4
236 25.7 20.5 30.7





#78

Pyrene

Concen: 37.954 ng

RT: 12.822 min Scan# 1824

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

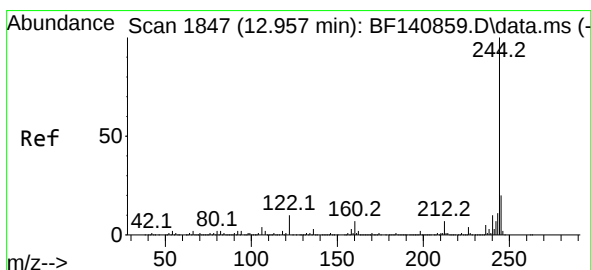
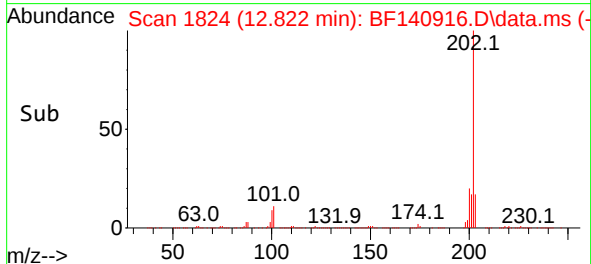
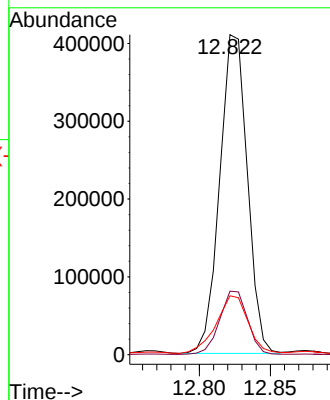
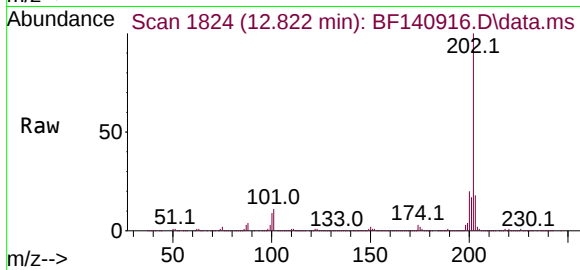
Tgt Ion:202 Resp: 554700

Ion Ratio Lower Upper

202 100

200 19.8 16.1 24.1

203 18.4 14.2 21.4



#79

Terphenyl-d14

Concen: 23.960 ng

RT: 12.957 min Scan# 1847

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

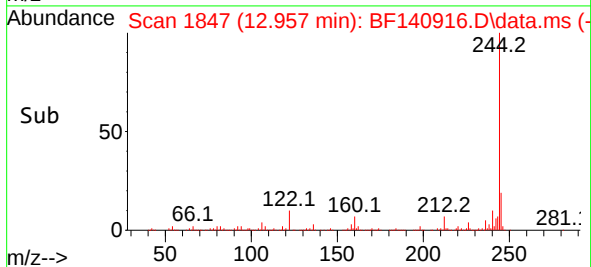
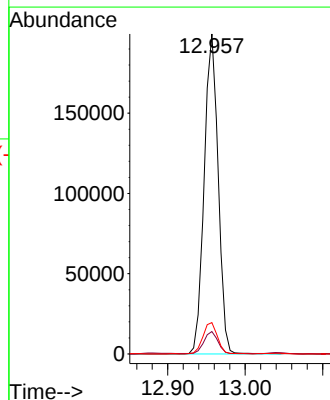
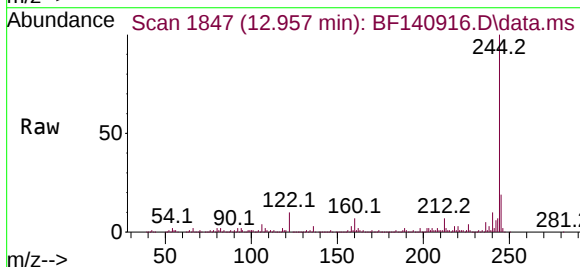
Tgt Ion:244 Resp: 249731

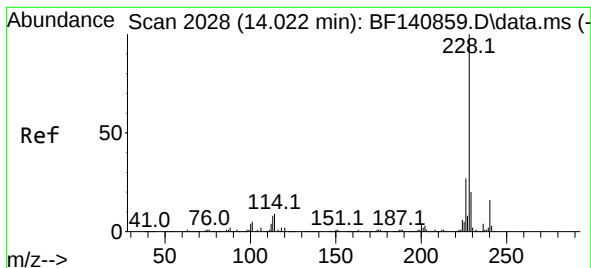
Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 9.8 8.2 12.2





#81

Benzo(a)anthracene

Concen: 21.293 ng

RT: 14.016 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

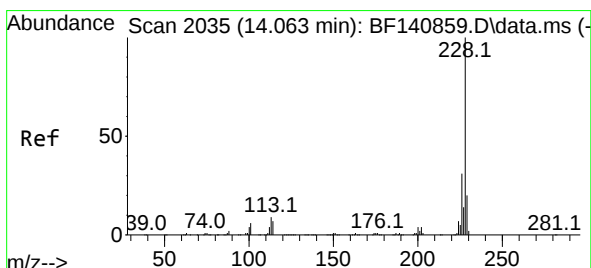
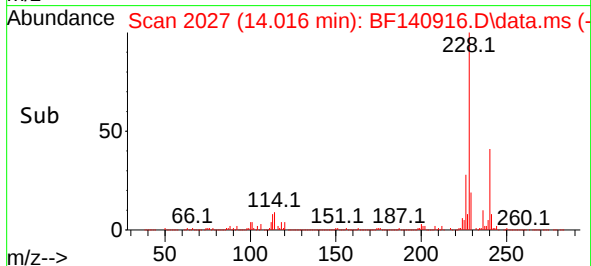
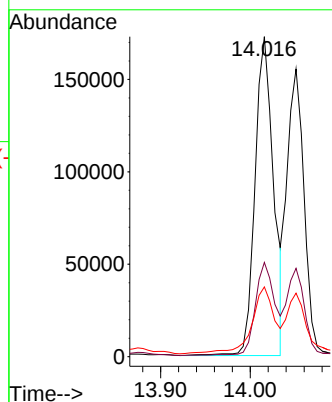
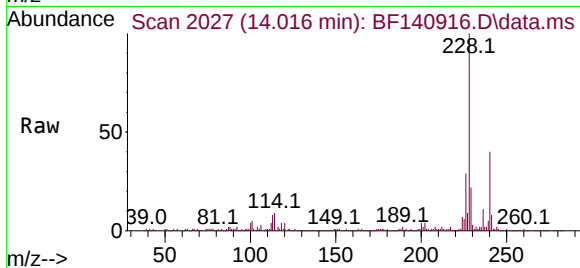
Tgt Ion:228 Resp: 248028

Ion Ratio Lower Upper

228 100

226 29.4 21.8 32.8

229 21.8 15.8 23.8



#83

Chrysene

Concen: 19.162 ng

RT: 14.051 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

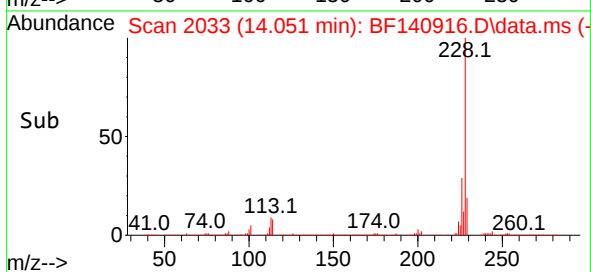
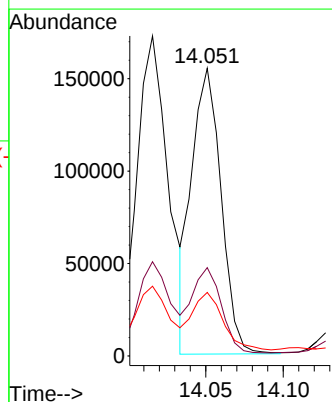
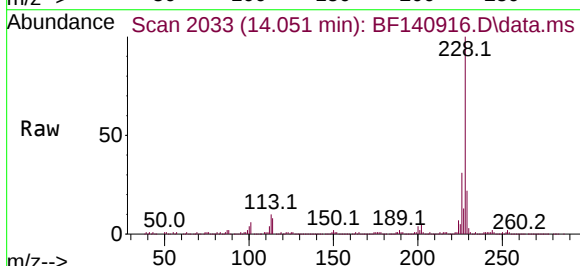
Tgt Ion:228 Resp: 202969

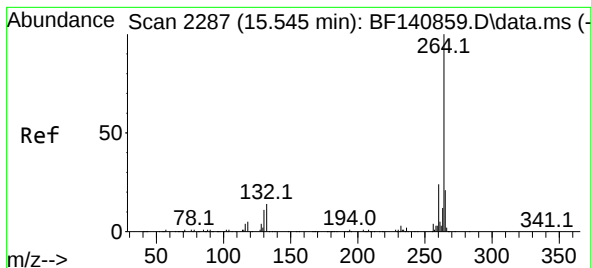
Ion Ratio Lower Upper

228 100

226 30.7 24.1 36.1

229 22.1 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

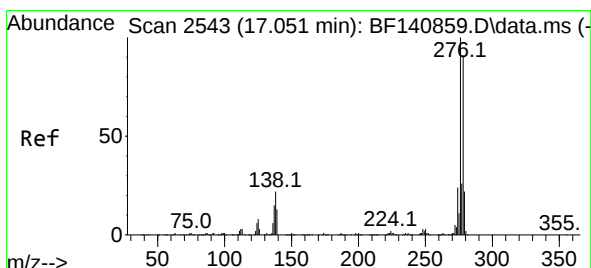
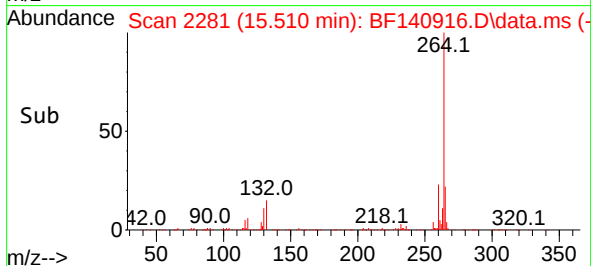
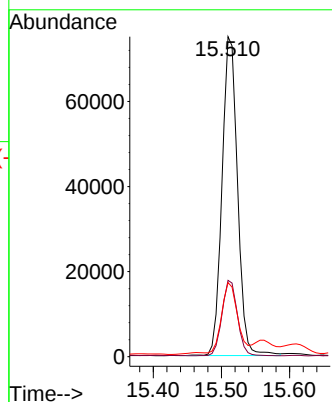
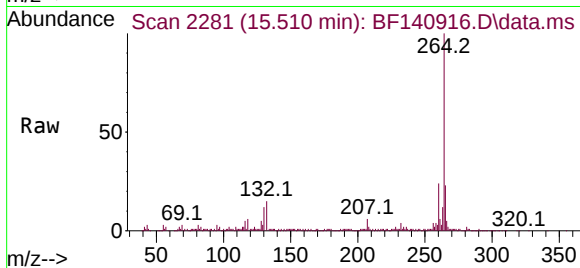
Tgt Ion:264 Resp: 118773

Ion Ratio Lower Upper

264 100

260 23.8 19.1 28.7

265 23.1 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.403 ng

RT: 17.021 min Scan# 2538

Delta R.T. -0.029 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

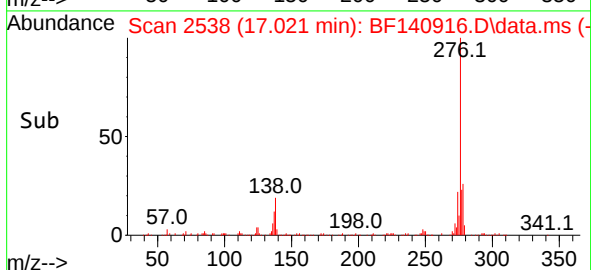
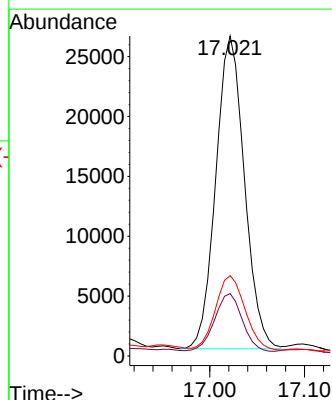
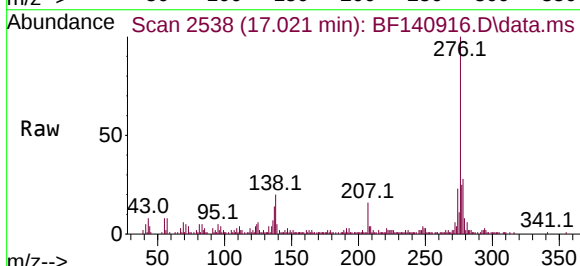
Tgt Ion:276 Resp: 54867

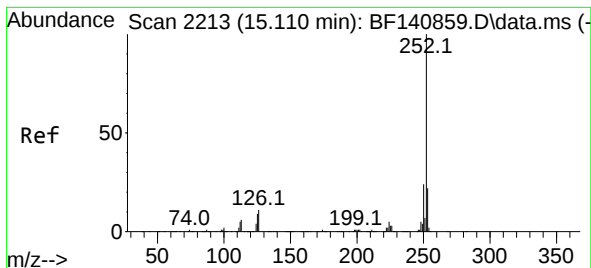
Ion Ratio Lower Upper

276 100

138 18.3 16.9 25.3

277 25.2 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 17.395 ng m

RT: 15.080 min Scan# 2110

Delta R.T. -0.029 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

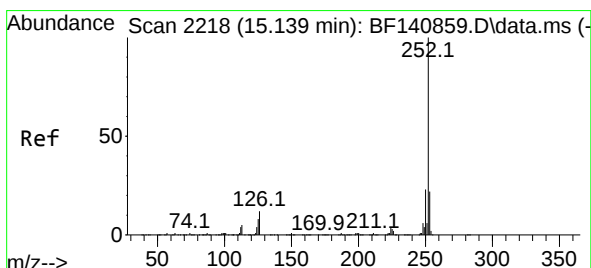
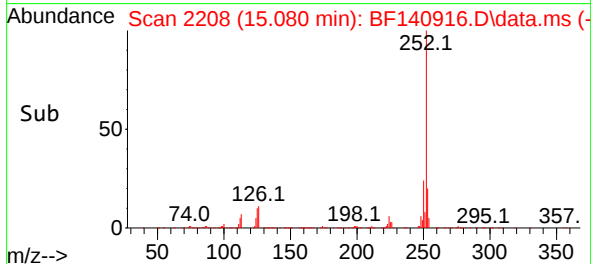
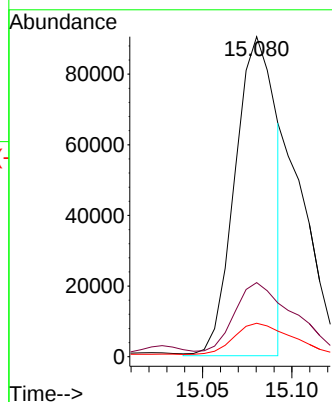
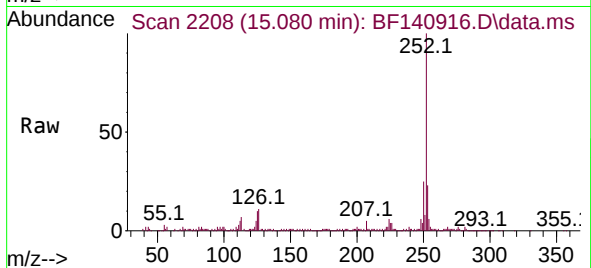
Tgt Ion:252 Resp: 143414

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

125 10.5 7.0 10.4#



#89

Benzo(k)fluoranthene

Concen: 9.034 ng m

RT: 15.092 min Scan# 2210

Delta R.T. -0.047 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

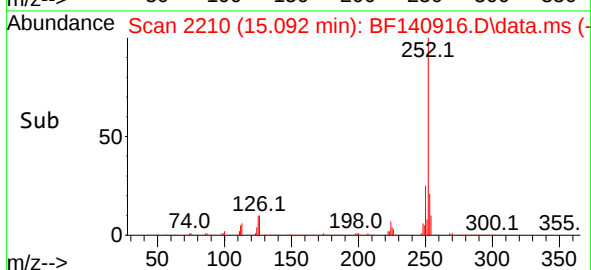
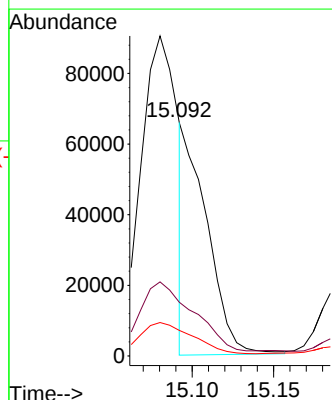
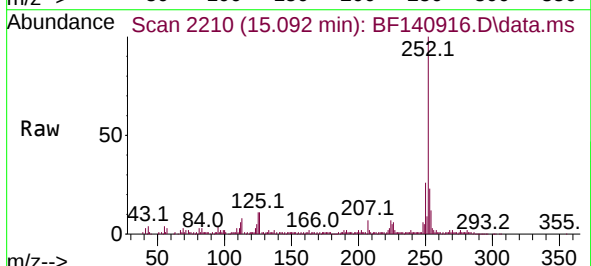
Tgt Ion:252 Resp: 63893

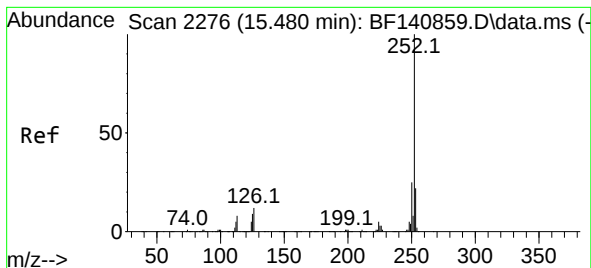
Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 10.9 6.8 10.2#





#90

Benzo(a)pyrene

Concen: 16.807 ng

RT: 15.451 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

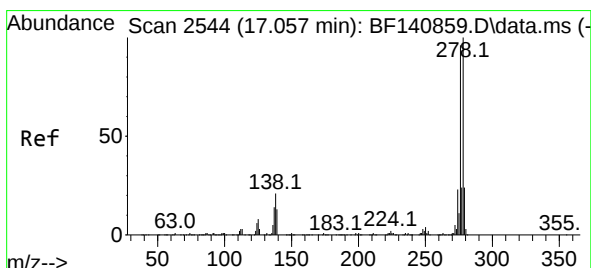
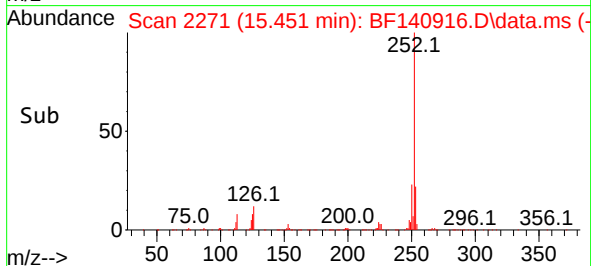
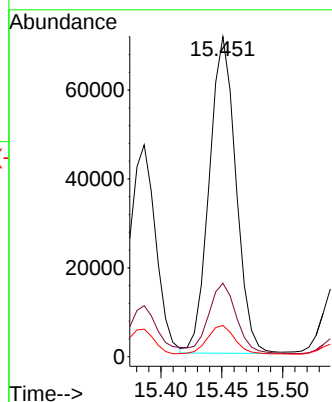
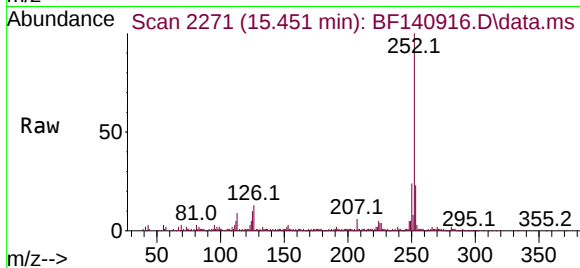
Tgt Ion:252 Resp: 108503

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 9.7 7.5 11.3



#91

Dibenzo(a,h)anthracene

Concen: 2.681 ng

RT: 17.021 min Scan# 2538

Delta R.T. -0.035 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

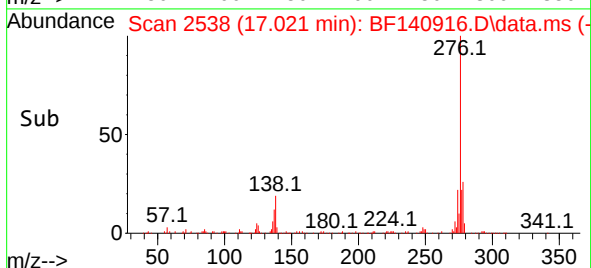
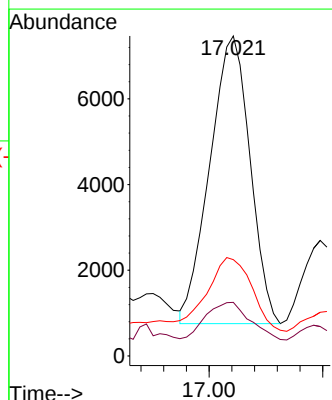
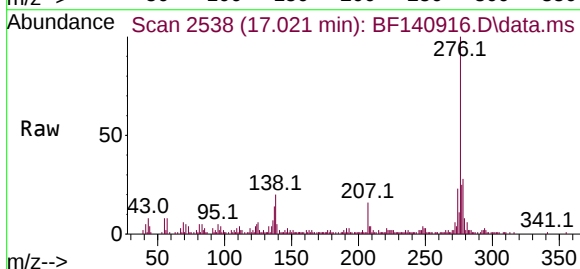
Tgt Ion:278 Resp: 16463

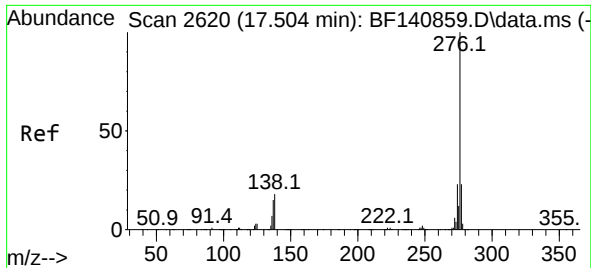
Ion Ratio Lower Upper

278 100

139 16.7 10.6 16.0#

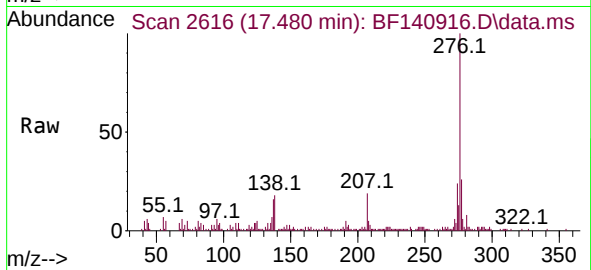
279 30.1 19.2 28.8#





#92
 Benzo(g,h,i)perylene
 Concen: 8.592 ng
 RT: 17.480 min Scan# 20
 Delta R.T. -0.024 min
 Lab File: BF140916.D
 Acq: 18 Dec 2024 19:49

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-12122024DL



Tgt Ion:276 Resp: 53697
 Ion Ratio Lower Upper
 276 100
 277 26.5 18.7 28.1
 138 18.3 14.2 21.2

