

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121724\
 Data File : BF140888.D
 Acq On : 17 Dec 2024 16:30
 Operator : RC/JU
 Sample : P5268-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-12122024

Quant Time: Dec 17 16:53:44 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)

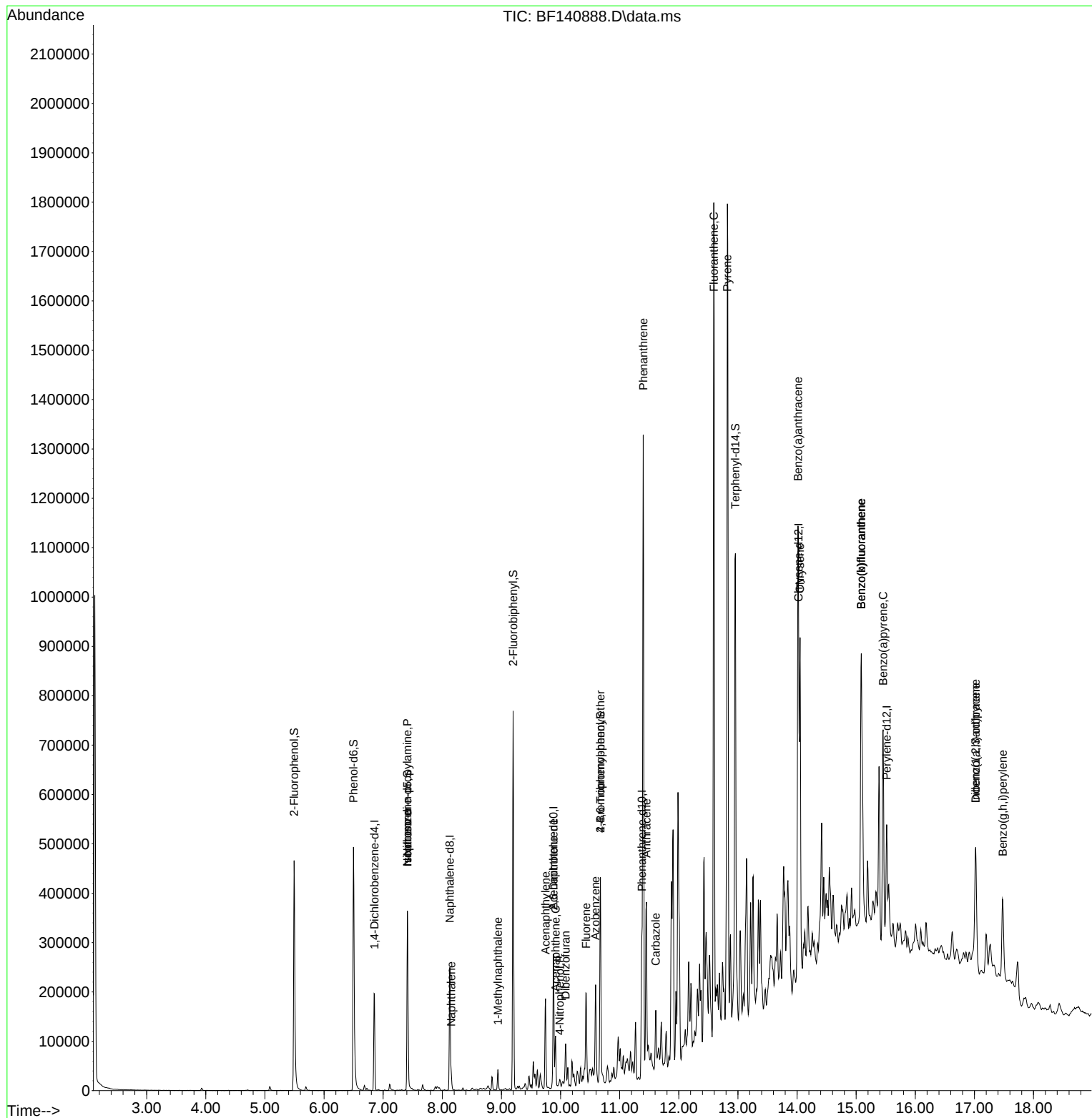
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	44357	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	154055	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	78262	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	145516	20.000	ng	0.00
76) Chrysene-d12	14.027	240	139883	20.000	ng	0.00
86) Perylene-d12	15.516	264	145010	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	201891	74.926	ng	0.00
7) Phenol-d6	6.498	99	257512	72.154	ng	0.00
23) Nitrobenzene-d5	7.410	82	166594	54.103	ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	63127	68.200	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	326886	57.425	ng	0.00
79) Terphenyl-d14	12.957	244	450017	50.729	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.410	70	22557	10.537	ng	# 78
25) Isophorone	7.410	82	163950	31.777	ng	# 65
31) Naphthalene	8.151	128	21588	2.551	ng	99
38) 1-Methylnaphthalene	8.940	142	14704	2.656	ng	98
49) Acenaphthylene	9.745	152	107763	15.403	ng	98
51) 2,6-Dinitrotoluene	9.881	165	11057	8.766	ng	# 21
52) Acenaphthene	9.916	154	32591	7.292	ng	98
55) Dibenzofuran	10.086	168	35835	5.175	ng	# 98
56) 4-Nitrophenol	9.986	139	596	5.278	ng	# 26
58) Fluorene	10.434	166	87848	15.376	ng	97
63) Azobenzene	10.592	77	40052	7.446	ng	# 1
67) 4-Bromophenyl-phenylether	10.675	248	3846	2.363	ng	# 1
71) Phenanthrene	11.398	178	679762	90.840	ng	99
72) Anthracene	11.451	178	199121	27.020	ng	99
73) Carbazole	11.610	167	52617	7.290	ng	98
75) Fluoranthene	12.592	202	950541	110.298	ng	99
78) Pyrene	12.822	202	993230	79.847	ng	99
81) Benzo(a)anthracene	14.016	228	440866	44.469	ng	92
83) Chrysene	14.051	228	350343	38.862	ng	97
87) Indeno(1,2,3-cd)pyrene	17.021	276	151015	16.688	ng	96
88) Benzo(b)fluoranthene	15.086	252	500166	49.689	ng	98
89) Benzo(k)fluoranthene	15.086	252	500166	57.927	ng	97
90) Benzo(a)pyrene	15.457	252	267741	33.969	ng	99
91) Dibenzo(a,h)anthracene	17.021	278	45966	6.131	ng	# 89
92) Benzo(g,h,i)perylene	17.480	276	151194	19.816	ng	98

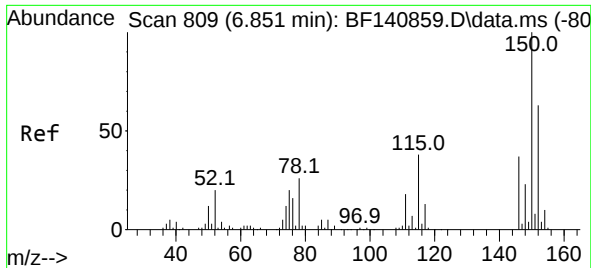
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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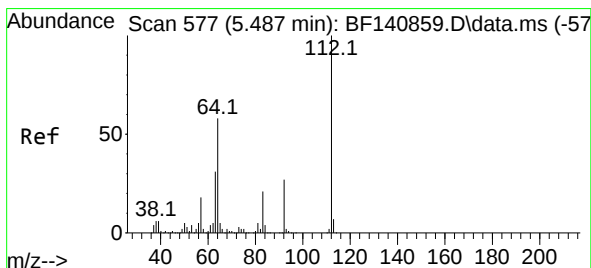
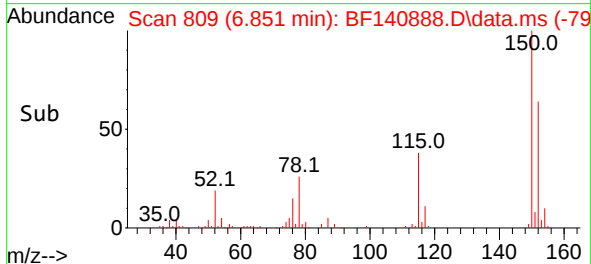
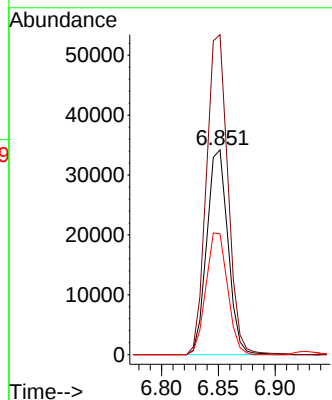
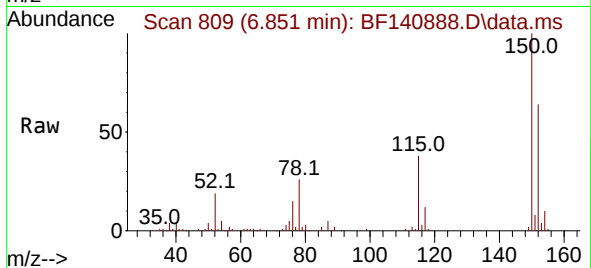




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 809
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

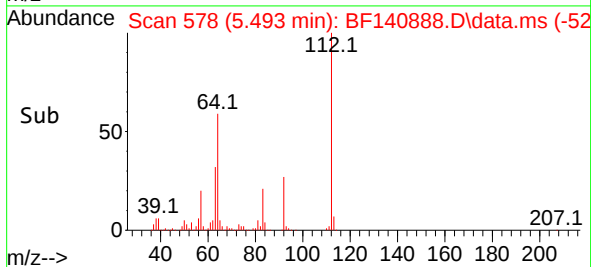
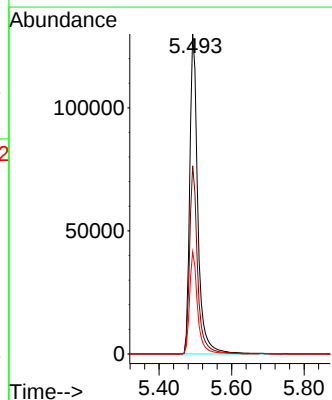
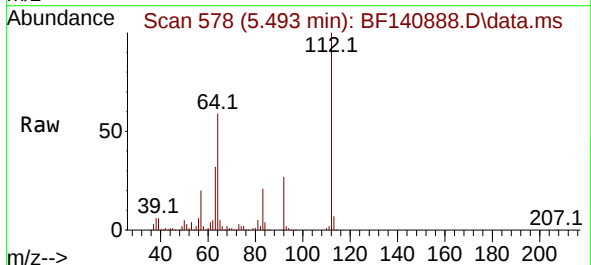
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

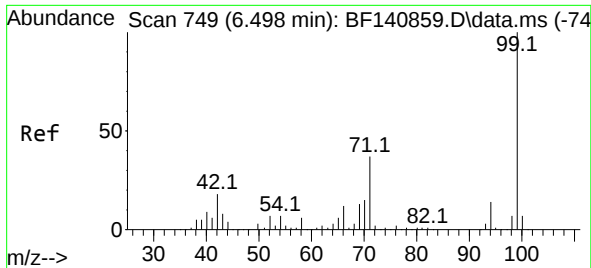
Tgt Ion:152 Resp: 44357
Ion Ratio Lower Upper
152 100
150 156.2 127.9 191.9
115 59.0 48.0 72.0



#5
2-Fluorophenol
Concen: 74.926 ng
RT: 5.493 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:112 Resp: 201891
Ion Ratio Lower Upper
112 100
64 58.8 46.1 69.1
63 31.9 24.9 37.3



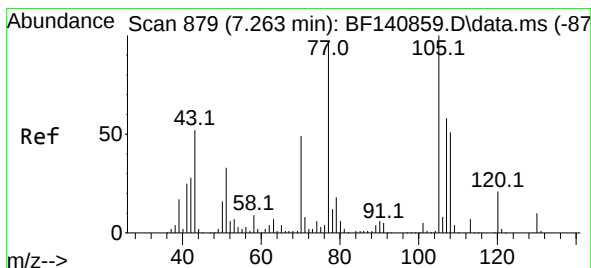
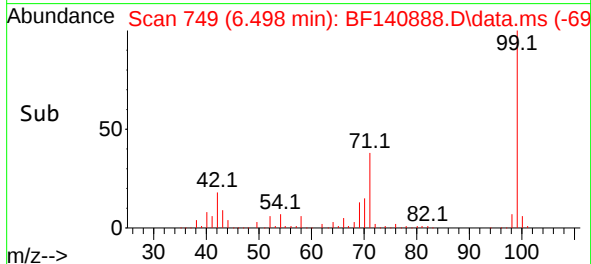
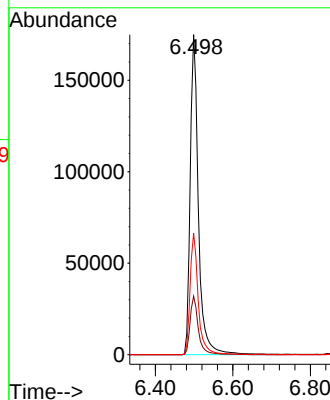
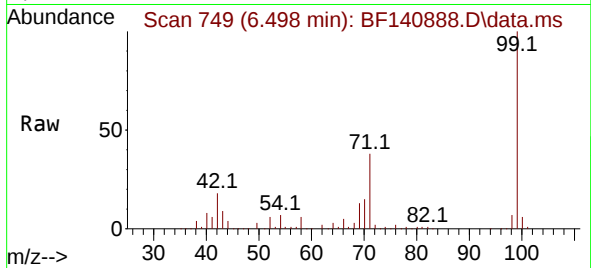


#7
Phenol-d6
Concen: 72.154 ng
RT: 6.498 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

Tgt Ion: 99 Resp: 257512

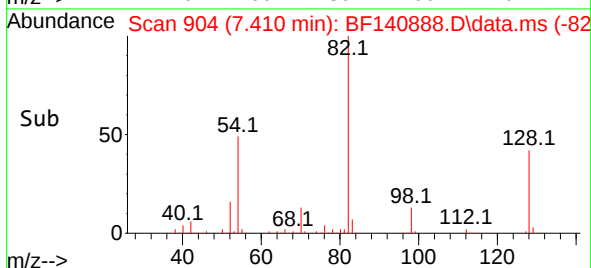
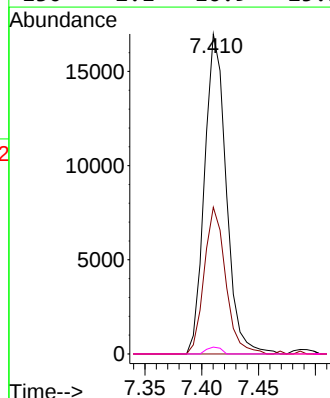
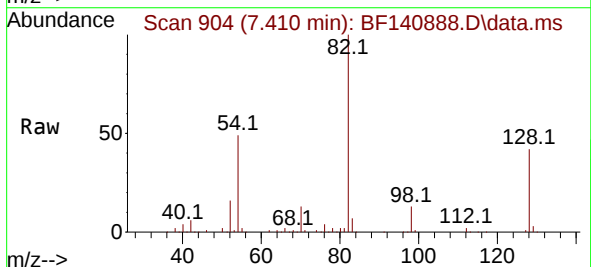
Ion	Ratio	Lower	Upper
99	100		
42	18.3	14.3	21.5
71	38.0	29.9	44.9

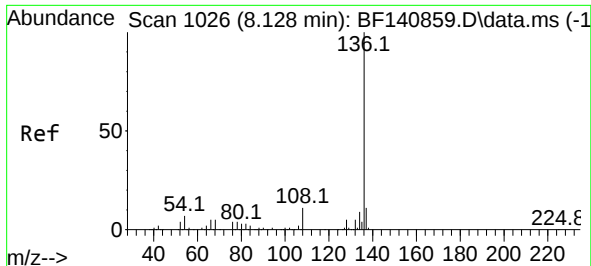


#19
n-Nitroso-di-n-propylamine
Concen: 10.537 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.147 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion: 70 Resp: 22557

Ion	Ratio	Lower	Upper
70	100		
42	45.9	45.3	67.9
101	0.0	8.0	12.0#
130	2.1	16.9	25.3#

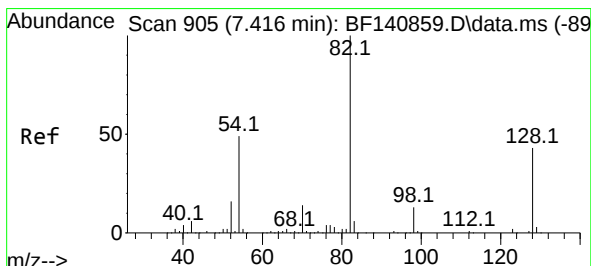
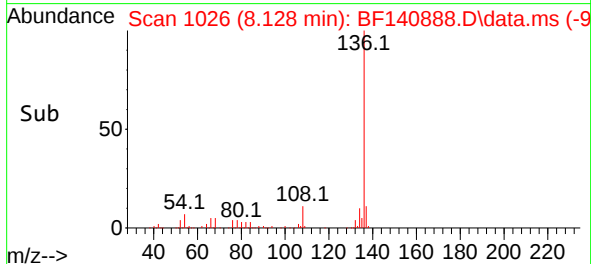
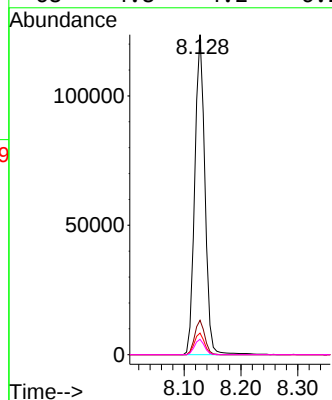
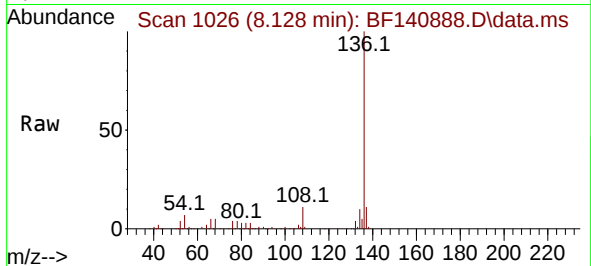




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

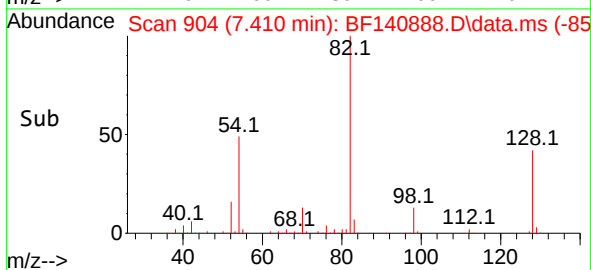
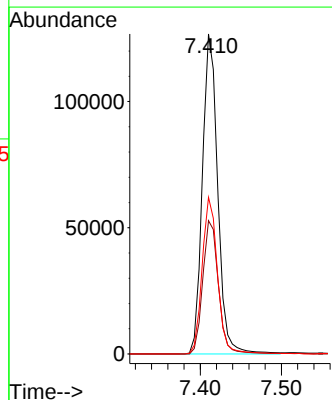
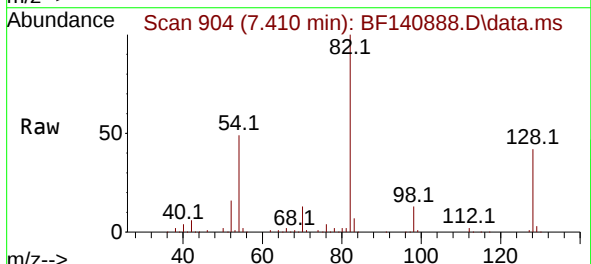
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

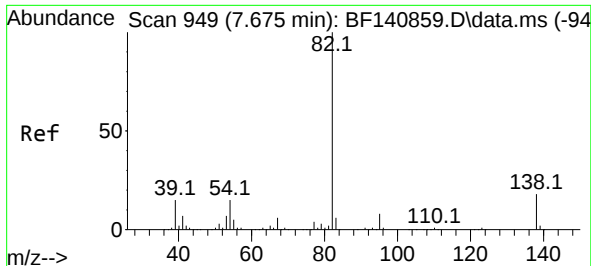
Tgt Ion:	136	Resp:	154055
Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.7	5.6	8.4
68	4.8	4.2	6.2



#23
Nitrobenzene-d5
Concen: 54.103 ng
RT: 7.410 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:	82	Resp:	166594
Ion	Ratio	Lower	Upper
82	100		
128	41.6	34.4	51.6
54	48.9	38.8	58.2

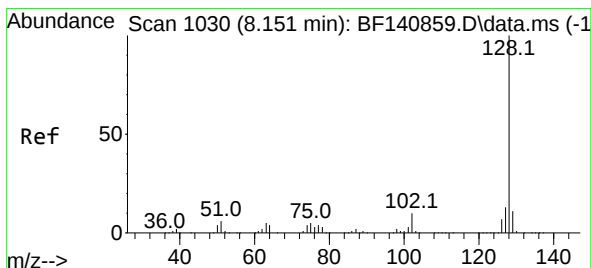
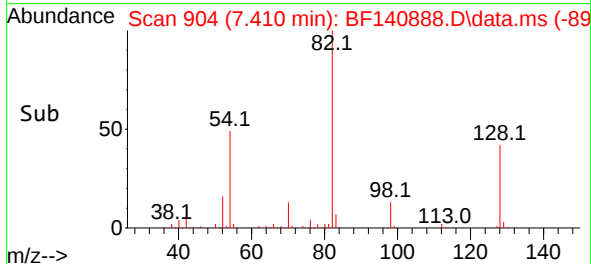
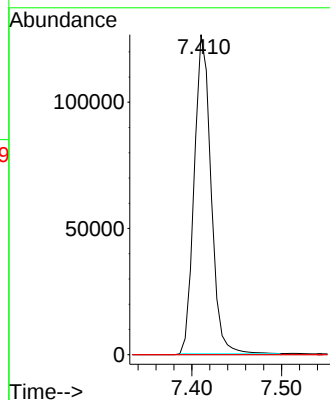
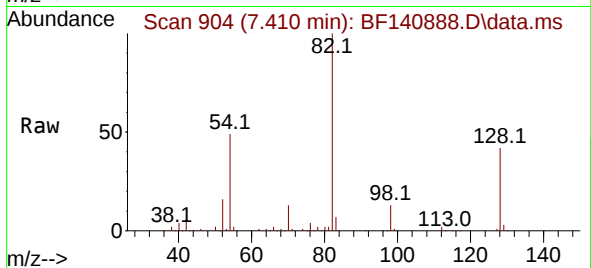




#25
Isophorone
Concen: 31.777 ng
RT: 7.410 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

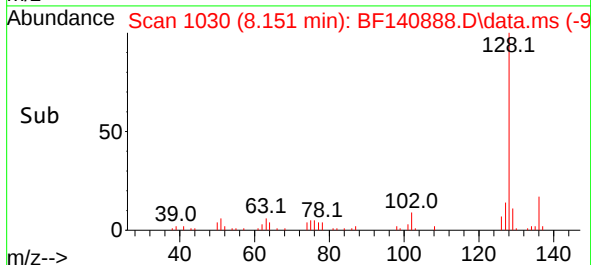
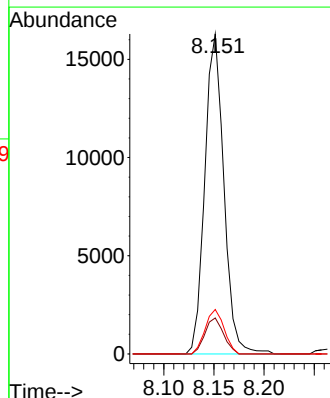
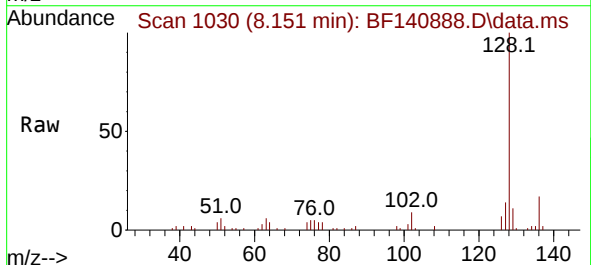
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

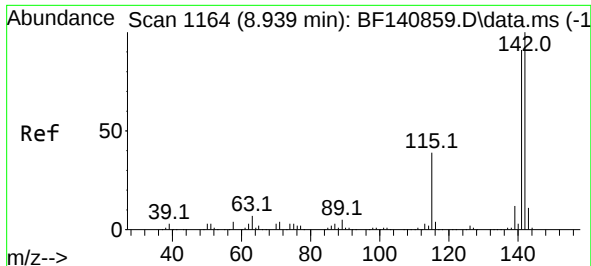
Tgt Ion: 82 Resp: 163950
Ion Ratio Lower Upper
82 100
95 0.0 6.3 9.5#
138 0.0 14.1 21.1#



#31
Naphthalene
Concen: 2.551 ng
RT: 8.151 min Scan# 1030
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion: 128 Resp: 21588
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.9 10.6 16.0





#38

1-Methylnaphthalene

Concen: 2.656 ng

RT: 8.940 min Scan# 1164

Delta R.T. 0.000 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

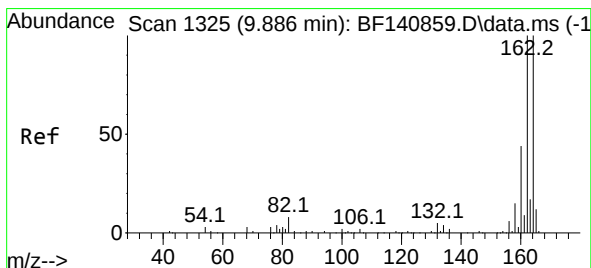
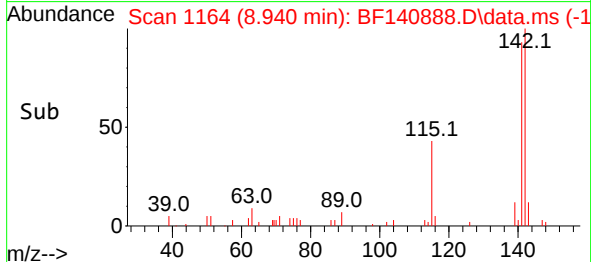
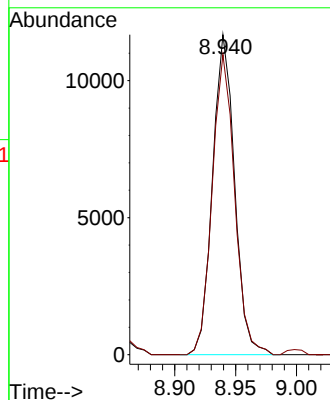
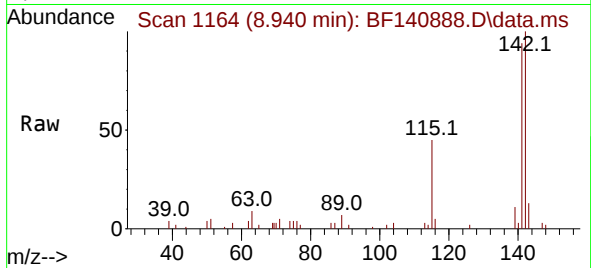
OR-02-12122024

Tgt Ion:142 Resp: 14704

Ion Ratio Lower Upper

142 100

141 93.7 73.4 110.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.881 min Scan# 1324

Delta R.T. -0.006 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

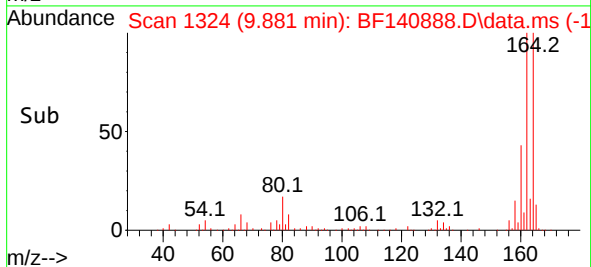
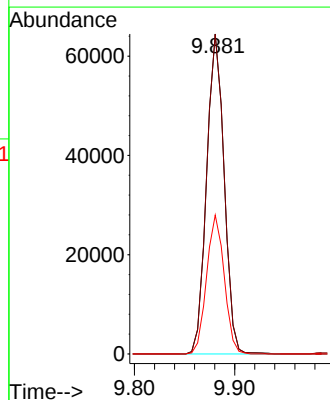
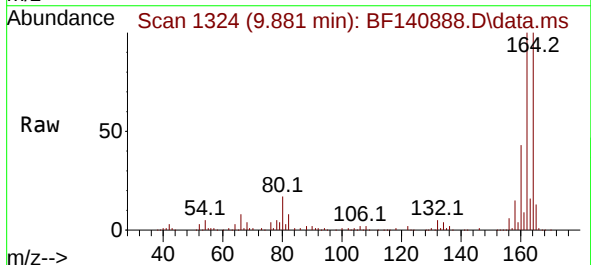
Tgt Ion:164 Resp: 78262

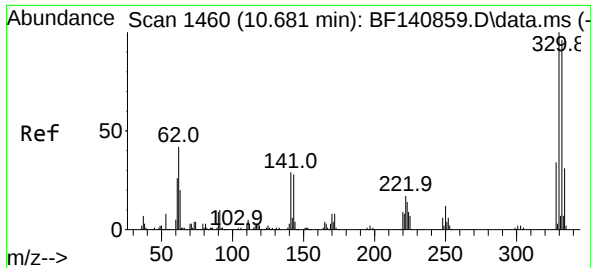
Ion Ratio Lower Upper

164 100

162 99.8 79.9 119.9

160 43.4 35.2 52.8





#42

2,4,6-Tribromophenol

Concen: 68.200 ng

RT: 10.675 min Scan# 1460

Delta R.T. -0.006 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024

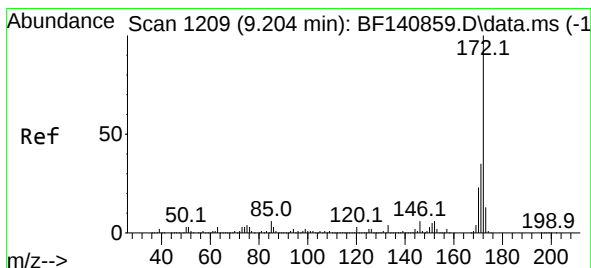
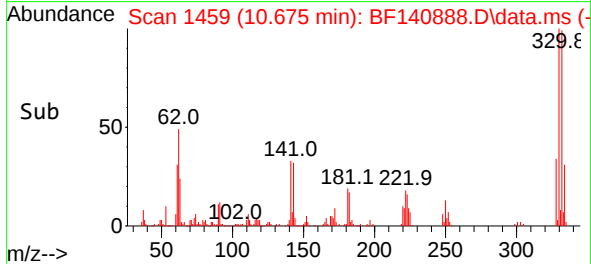
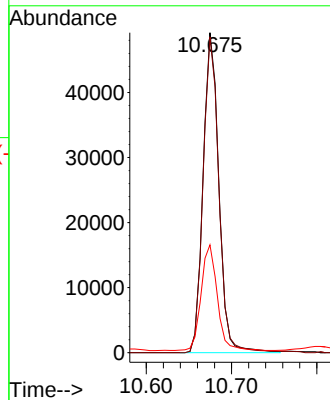
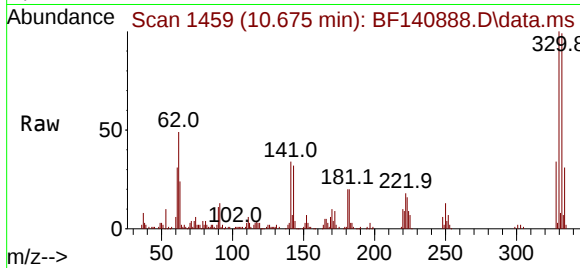
Tgt Ion:330 Resp: 63127

Ion Ratio Lower Upper

330 100

332 99.0 76.2 114.4

141 34.4 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 57.425 ng

RT: 9.198 min Scan# 1208

Delta R.T. -0.006 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

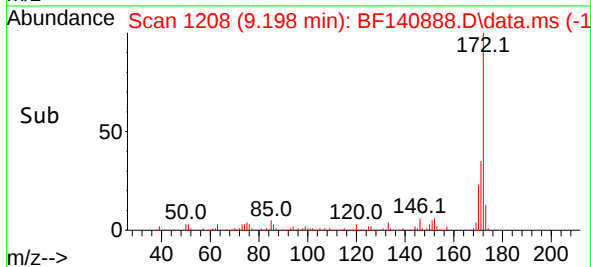
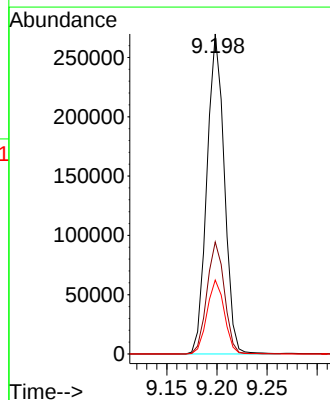
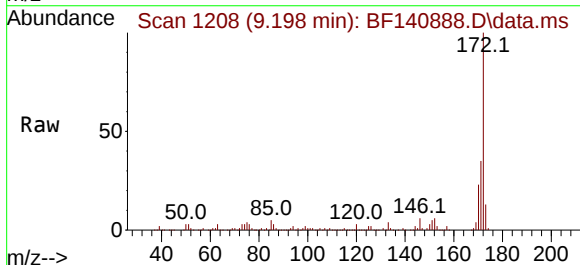
Tgt Ion:172 Resp: 326886

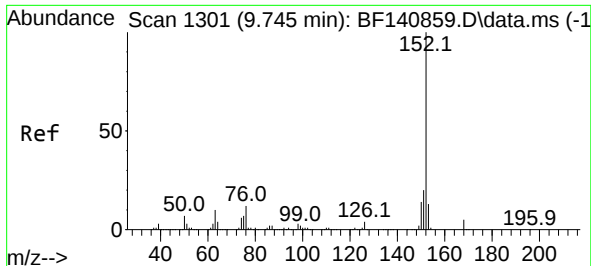
Ion Ratio Lower Upper

172 100

171 35.0 28.4 42.6

170 23.1 18.6 28.0

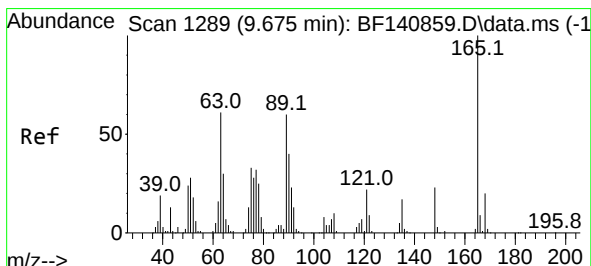
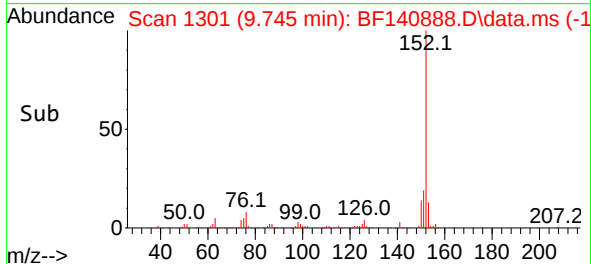
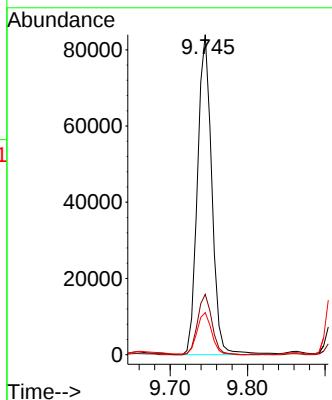
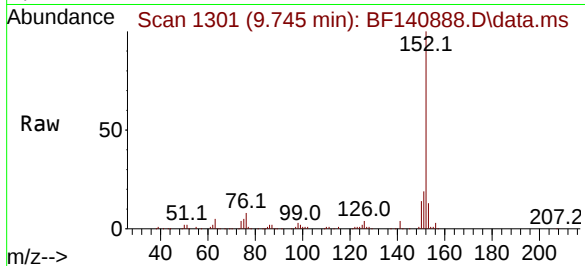




#49
Acenaphthylene
Concen: 15.403 ng
RT: 9.745 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

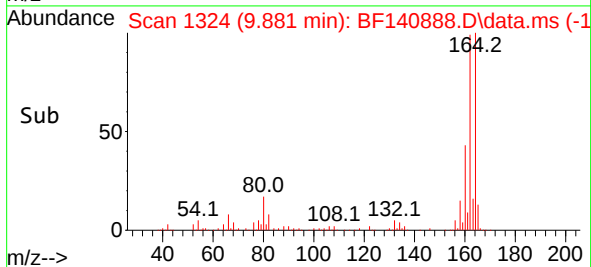
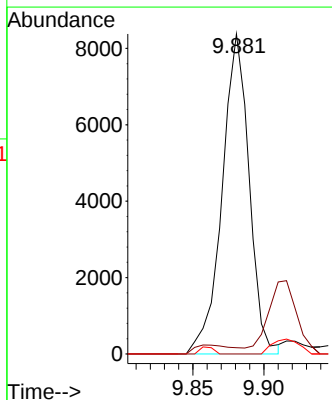
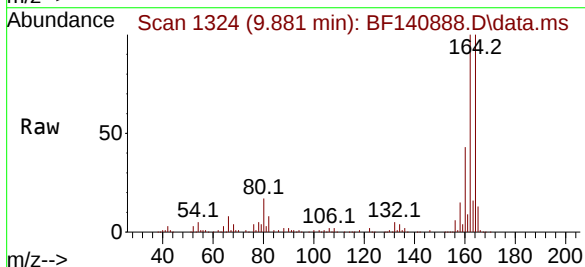
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

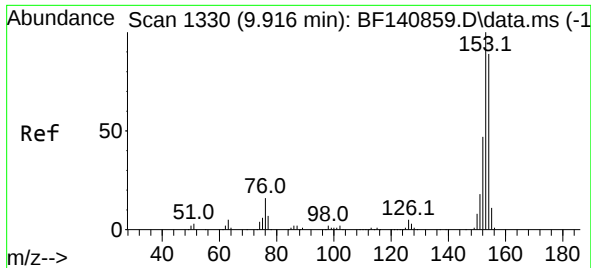
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Ion Ratio Lower Upper
152 100
151 18.9 16.0 24.0
153 13.2 10.6 16.0



#51
2,6-Dinitrotoluene
Concen: 8.766 ng
RT: 9.881 min Scan# 1324
Delta R.T. 0.206 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:165 Resp: 11057
Ion Ratio Lower Upper
165 100
63 2.0 49.7 74.5#
89 0.0 48.2 72.4#

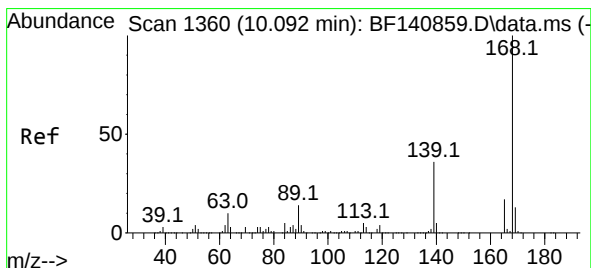
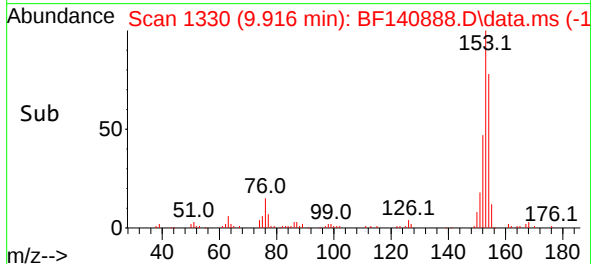
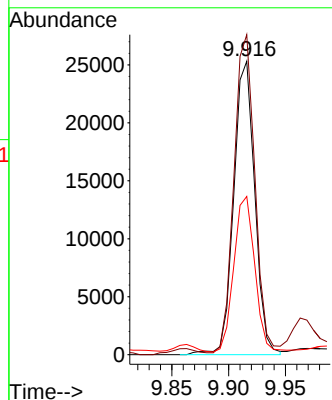
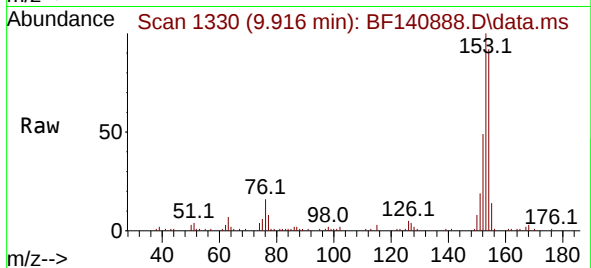




#52
Acenaphthene
Concen: 7.292 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

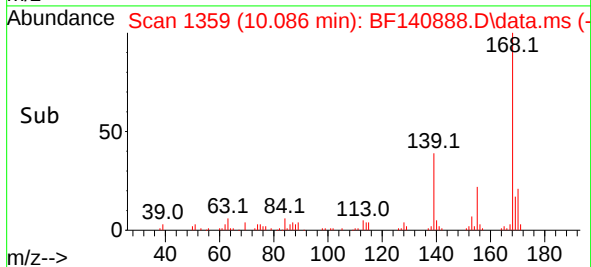
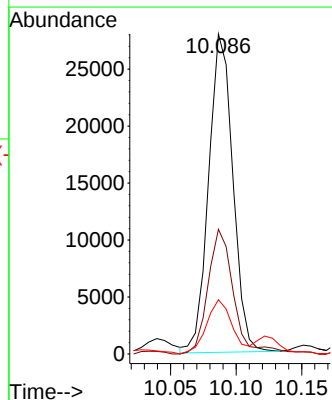
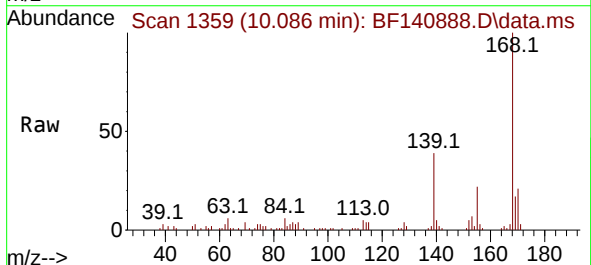
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

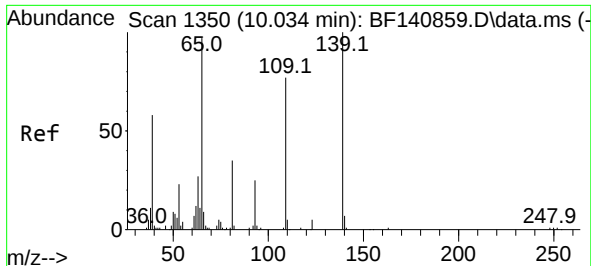
Tgt Ion:154 Resp: 32591
Ion Ratio Lower Upper
154 100
153 109.0 89.9 134.9
152 53.9 42.6 63.8



#55
Dibenzofuran
Concen: 5.175 ng
RT: 10.086 min Scan# 1359
Delta R.T. -0.006 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:168 Resp: 35835
Ion Ratio Lower Upper
168 100
139 38.9 31.1 46.7
169 17.0 10.6 16.0#

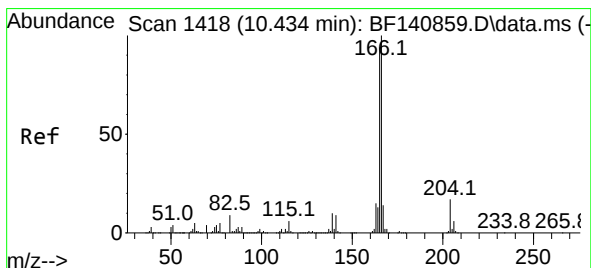
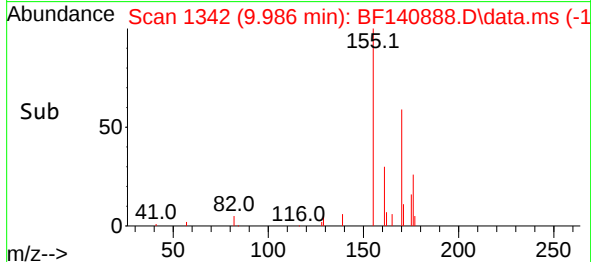
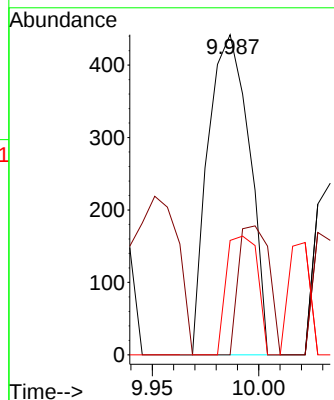
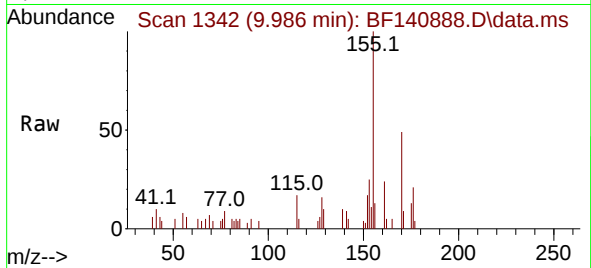




#56
4-Nitrophenol
Concen: 5.278 ng
RT: 9.986 min Scan# 11
Delta R.T. -0.048 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

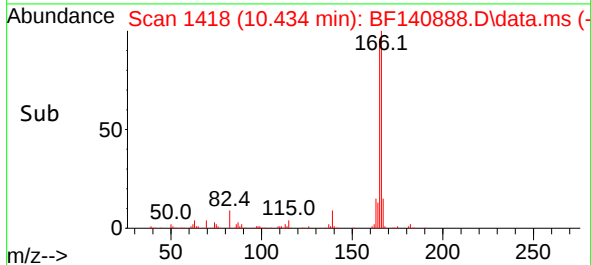
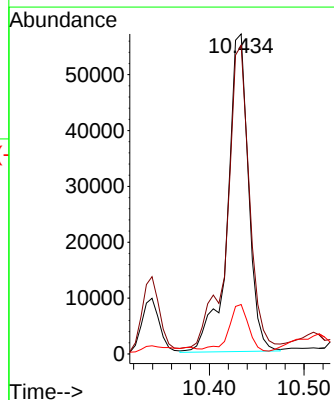
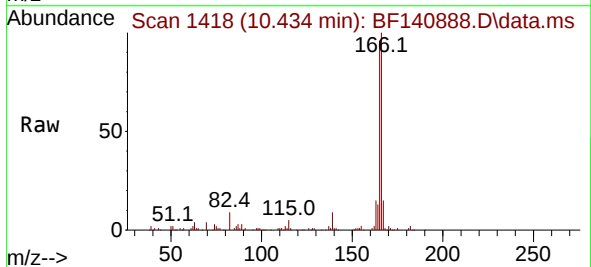
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

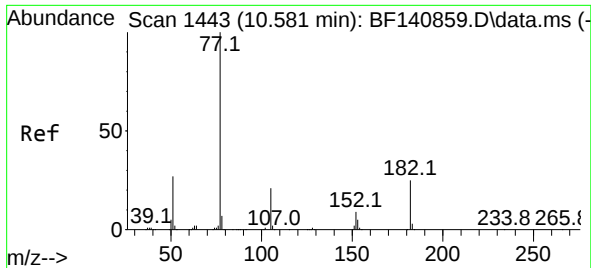
Tgt Ion:139 Resp: 596
Ion Ratio Lower Upper
139 100
109 0.0 56.7 96.7#
65 35.7 78.1 118.1#



#58
Fluorene
Concen: 15.376 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:166 Resp: 87848
Ion Ratio Lower Upper
166 100
165 96.4 75.1 112.7
167 15.4 11.1 16.7

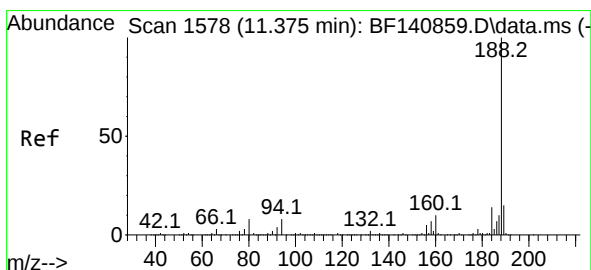
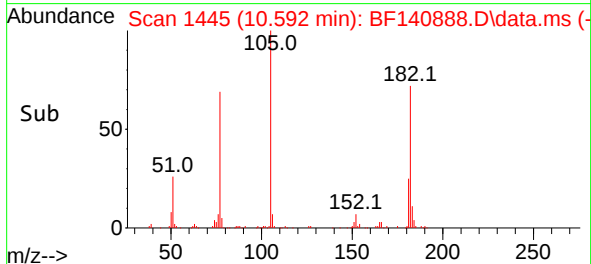
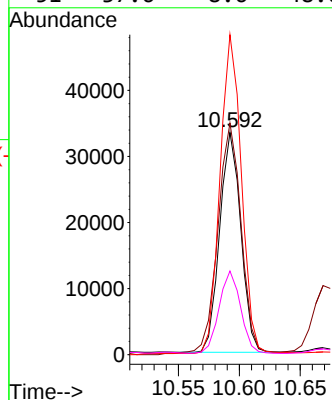
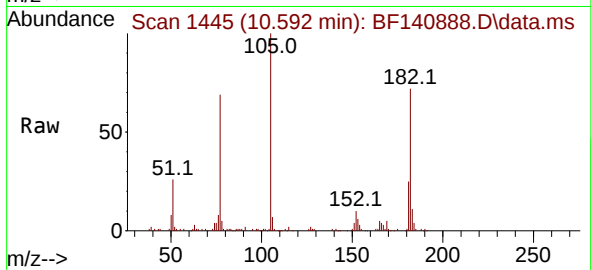




#63
Azobenzene
Concen: 7.446 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.012 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

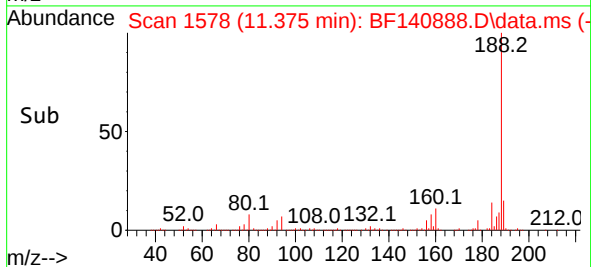
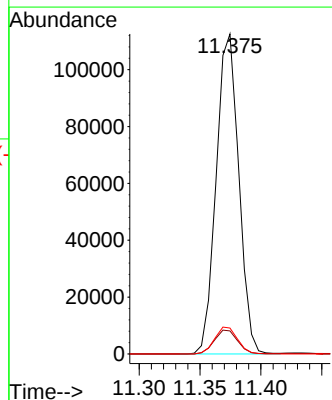
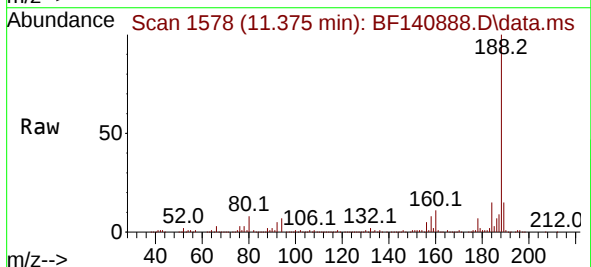
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

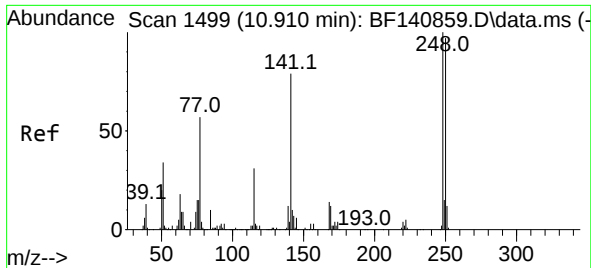
Tgt Ion: 77	Resp: 40052
Ion Ratio	Lower Upper
77 100	
182 104.3	4.5 44.5#
105 144.0	0.9 40.9#
51 37.6	8.6 48.6



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion: 188	Resp: 145516
Ion Ratio	Lower Upper
188 100	
94 7.2	6.4 9.6
80 8.1	6.8 10.2

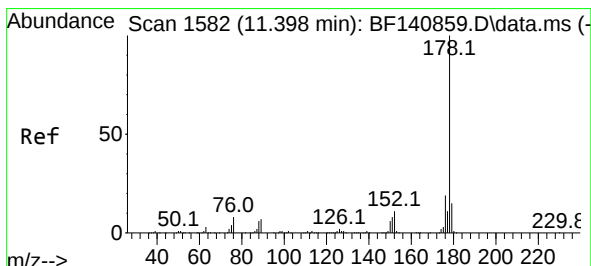
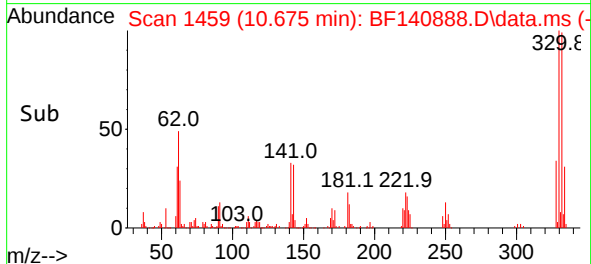
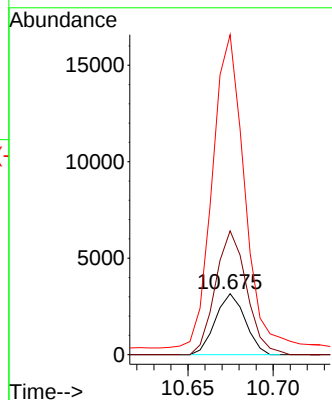
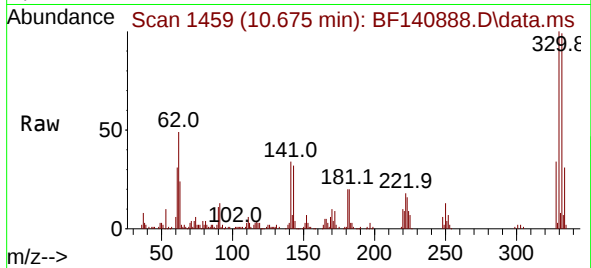




#67
4-Bromophenyl-phenylether
Concen: 2.363 ng
RT: 10.675 min Scan# 1499
Delta R.T. -0.235 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

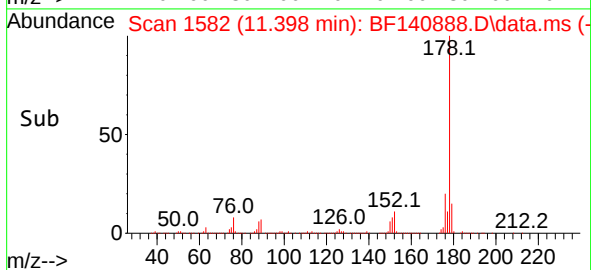
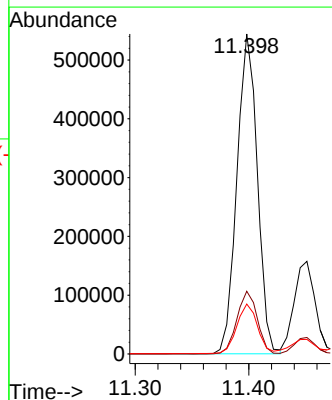
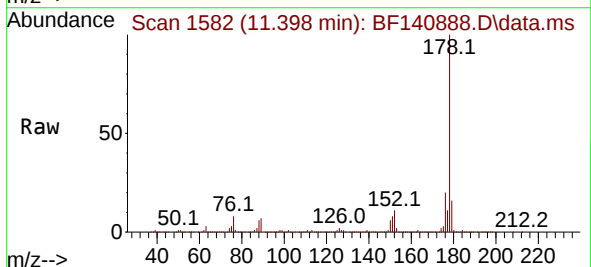
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

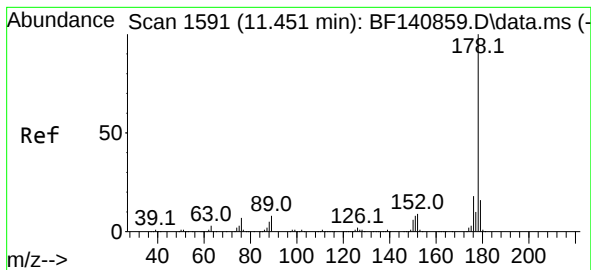
Tgt Ion:248 Resp: 3846
Ion Ratio Lower Upper
248 100
250 203.1 77.4 116.2#
141 524.8 62.9 94.3#



#71
Phenanthrene
Concen: 90.840 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:178 Resp: 679762
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.6 12.1 18.1

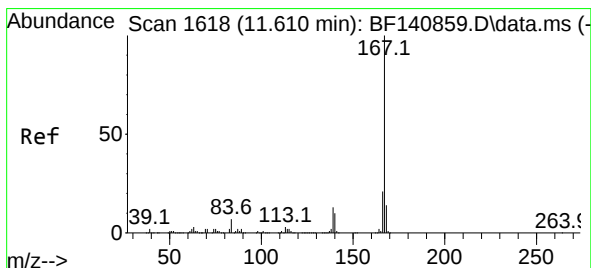
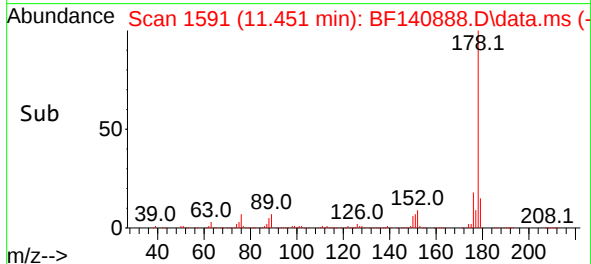
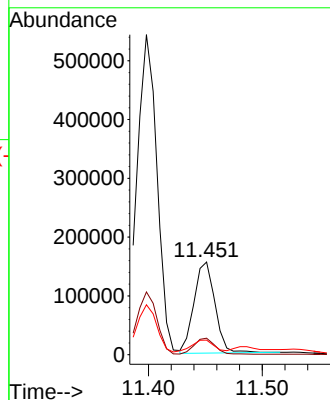
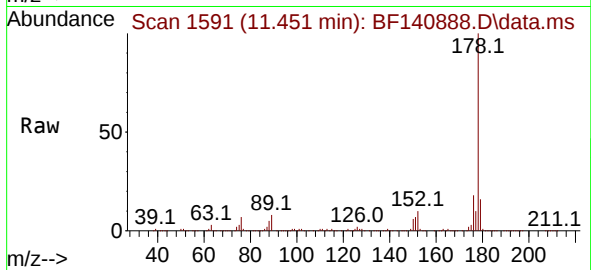




#72
Anthracene
Concen: 27.020 ng
RT: 11.451 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

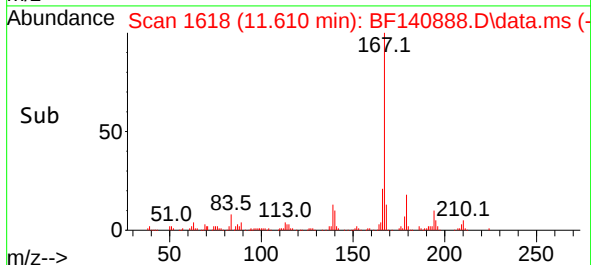
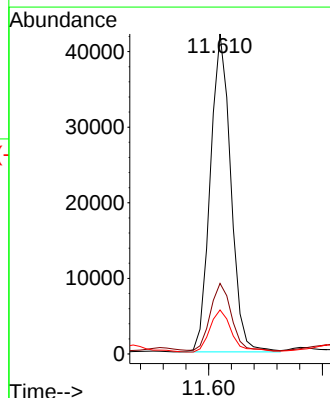
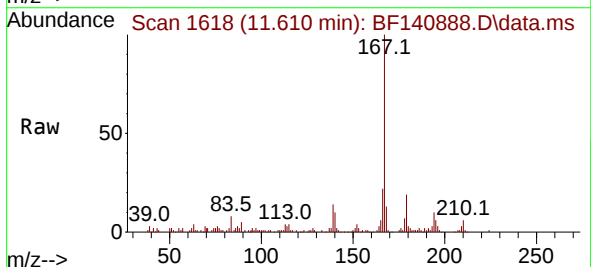
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

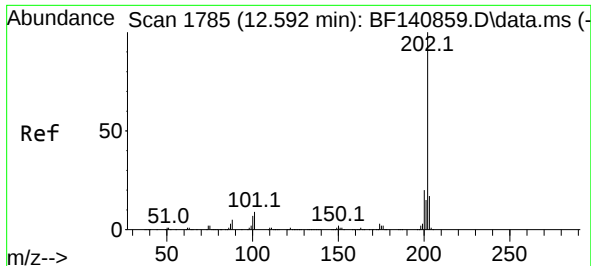
Tgt Ion:178 Resp: 199121
Ion Ratio Lower Upper
178 100
176 17.8 14.6 22.0
179 15.7 12.6 18.8



#73
Carbazole
Concen: 7.290 ng
RT: 11.610 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:167 Resp: 52617
Ion Ratio Lower Upper
167 100
166 22.0 17.0 25.6
139 13.8 10.2 15.2

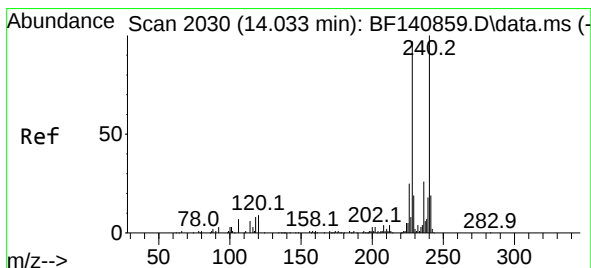
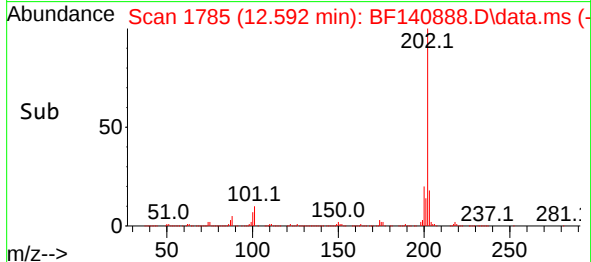
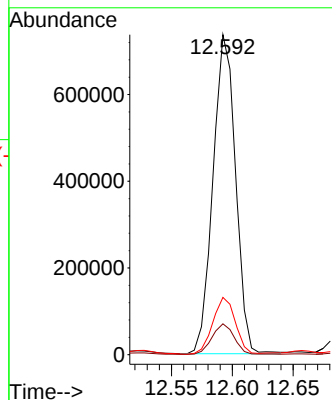
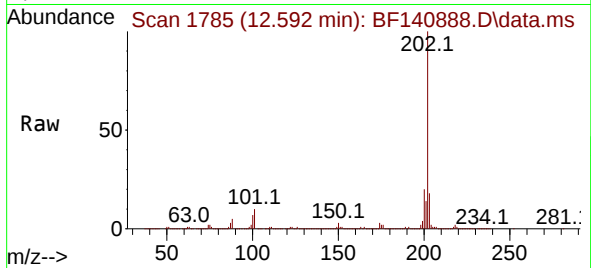




#75
Fluoranthene
Concen: 110.298 ng
RT: 12.592 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

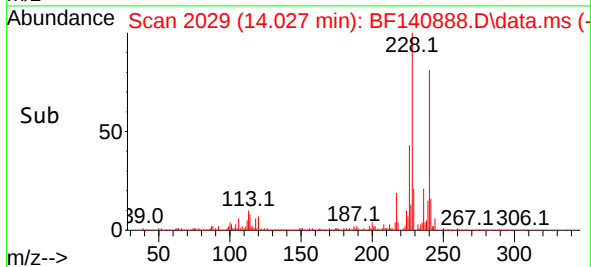
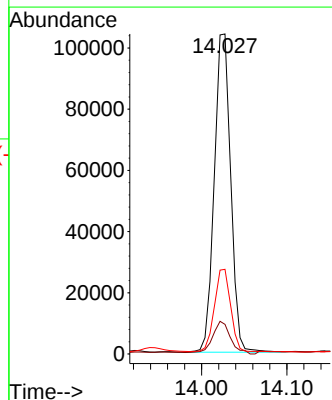
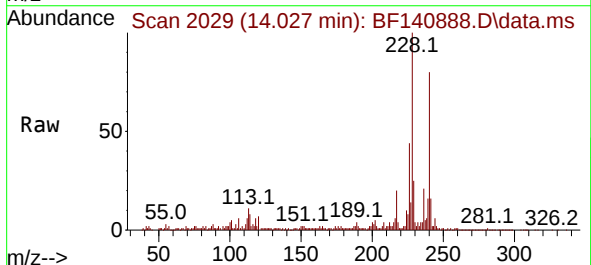
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024

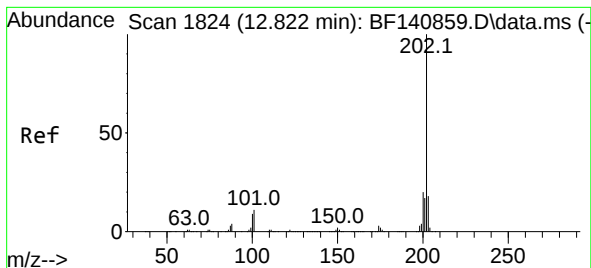
Tgt Ion:202 Resp: 950541
Ion Ratio Lower Upper
202 100
101 9.6 0.0 29.3
203 17.9 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140888.D
Acq: 17 Dec 2024 16:30

Tgt Ion:240 Resp: 139883
Ion Ratio Lower Upper
240 100
120 9.3 7.6 11.4
236 26.4 20.5 30.7





#78

Pyrene

Concen: 79.847 ng

RT: 12.822 min Scan# 1824

Delta R.T. 0.000 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024

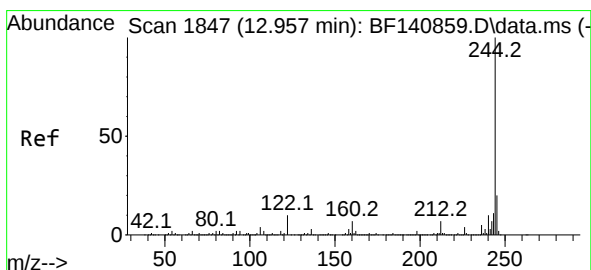
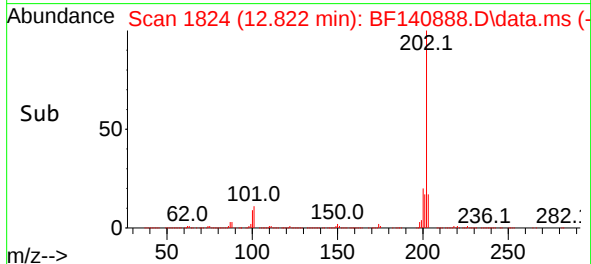
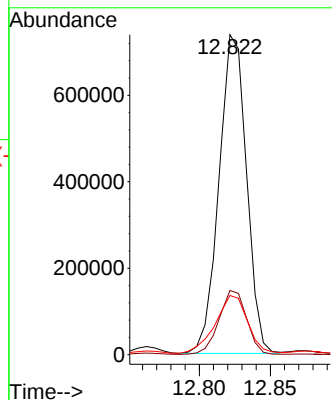
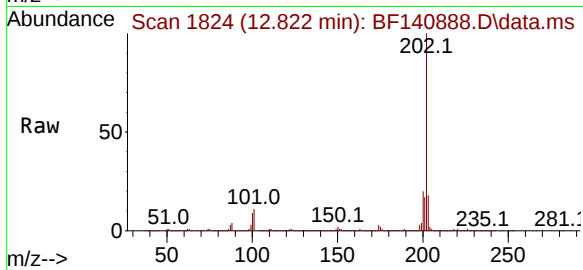
Tgt Ion:202 Resp: 993230

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

203 18.5 14.2 21.4



#79

Terphenyl-d14

Concen: 50.729 ng

RT: 12.957 min Scan# 1847

Delta R.T. 0.000 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

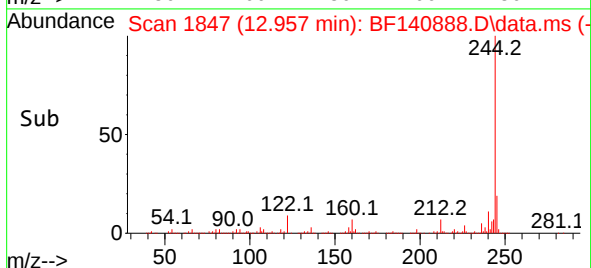
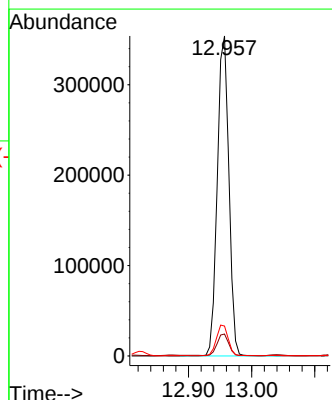
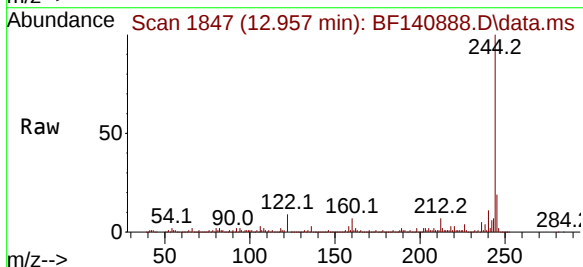
Tgt Ion:244 Resp: 450017

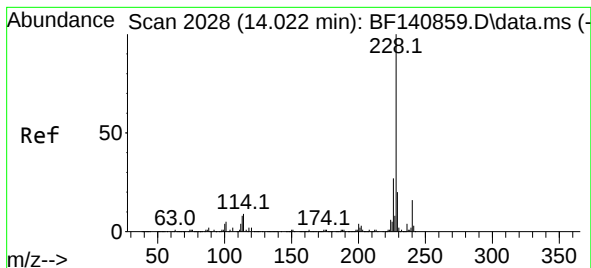
Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

122 9.3 8.2 12.2





#81

Benzo(a)anthracene

Concen: 44.469 ng

RT: 14.016 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024

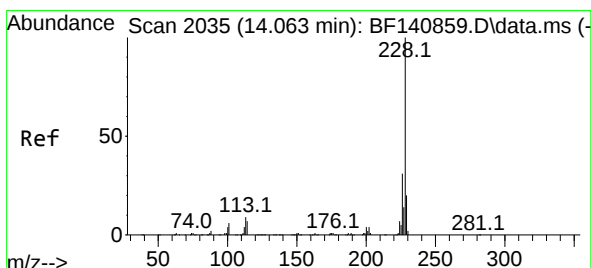
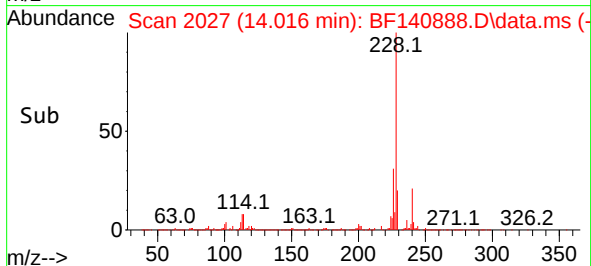
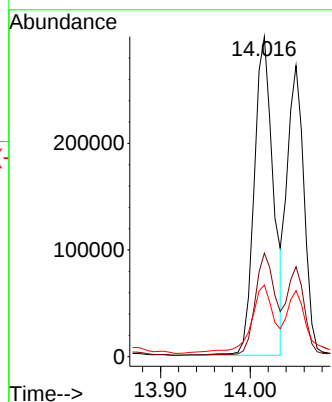
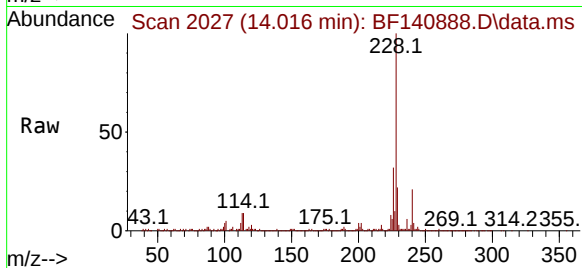
Tgt Ion:228 Resp: 440866

Ion Ratio Lower Upper

228 100

226 32.3 21.8 32.8

229 22.4 15.8 23.8



#83

Chrysene

Concen: 38.862 ng

RT: 14.051 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

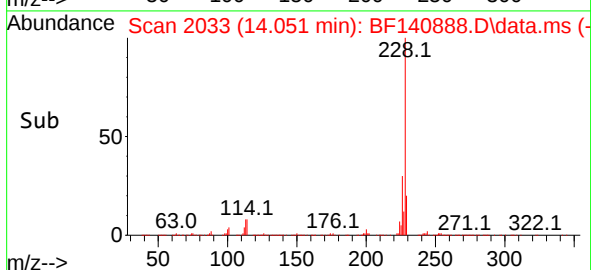
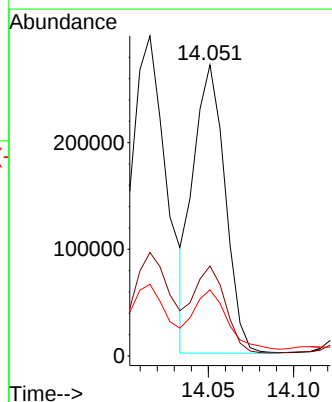
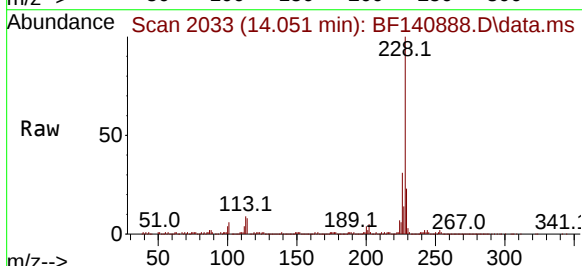
Tgt Ion:228 Resp: 350343

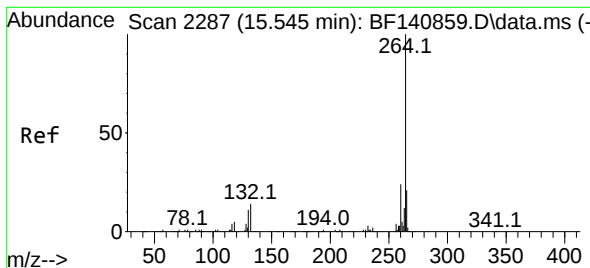
Ion Ratio Lower Upper

228 100

226 30.9 24.1 36.1

229 22.7 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.516 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024

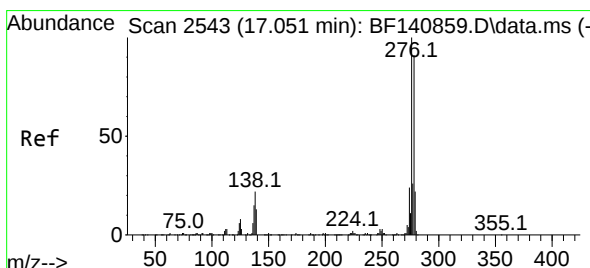
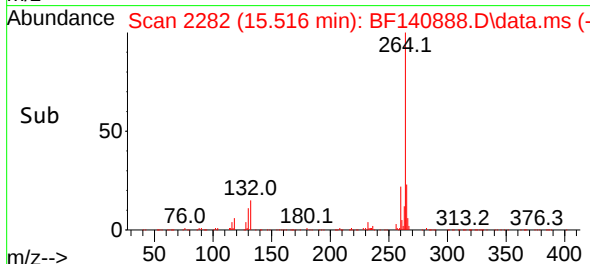
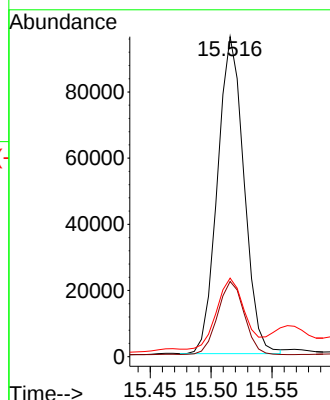
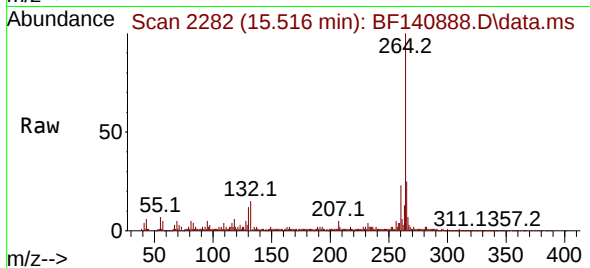
Tgt Ion:264 Resp: 145010

Ion Ratio Lower Upper

264 100

260 23.5 19.1 28.7

265 24.5 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 16.688 ng

RT: 17.021 min Scan# 2538

Delta R.T. -0.029 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

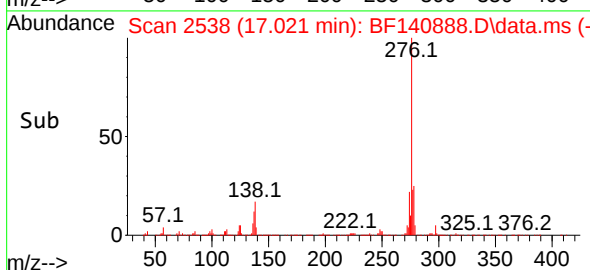
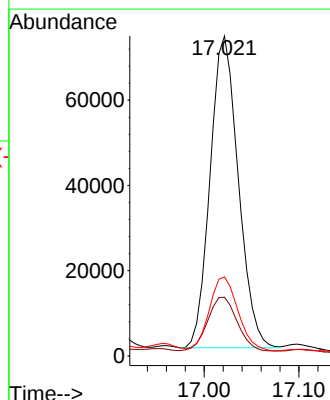
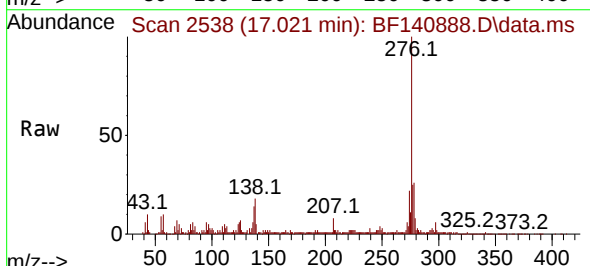
Tgt Ion:276 Resp: 151015

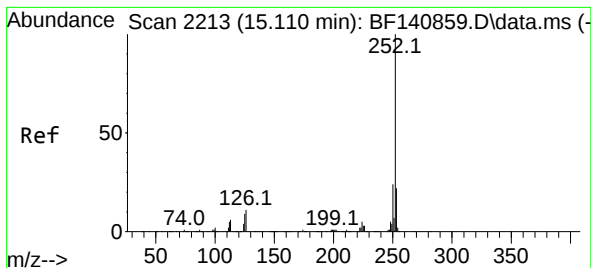
Ion Ratio Lower Upper

276 100

138 18.1 16.9 25.3

277 24.1 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 49.689 ng

RT: 15.086 min Scan# 2209

Delta R.T. -0.024 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024

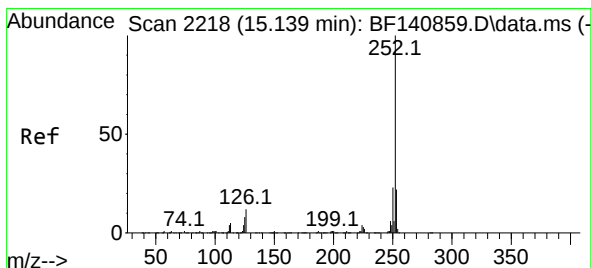
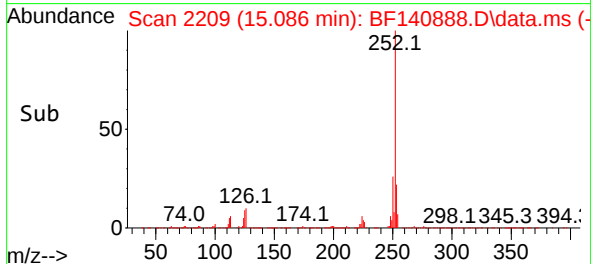
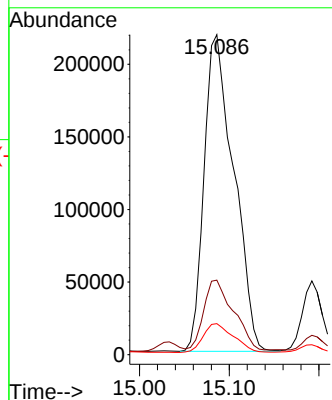
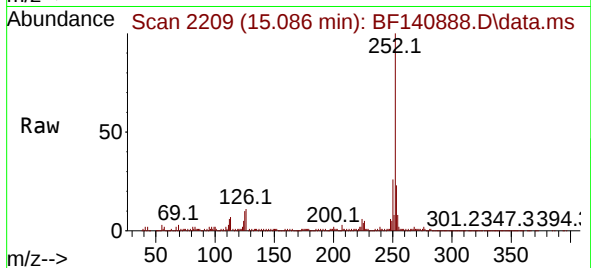
Tgt Ion:252 Resp: 500166

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.6

125 9.7 7.0 10.4



#89

Benzo(k)fluoranthene

Concen: 57.927 ng

RT: 15.086 min Scan# 2209

Delta R.T. -0.053 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

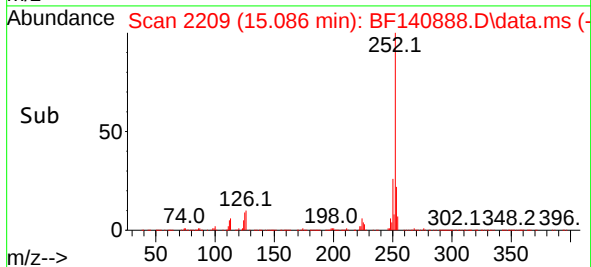
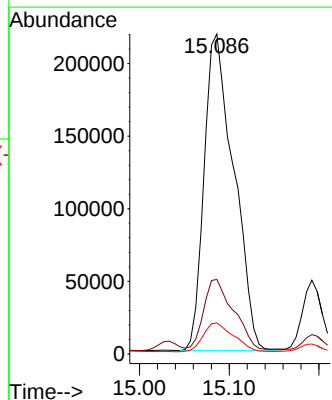
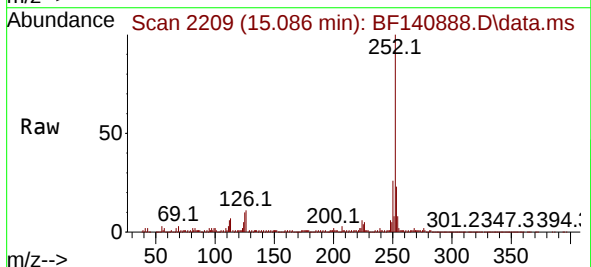
Tgt Ion:252 Resp: 500166

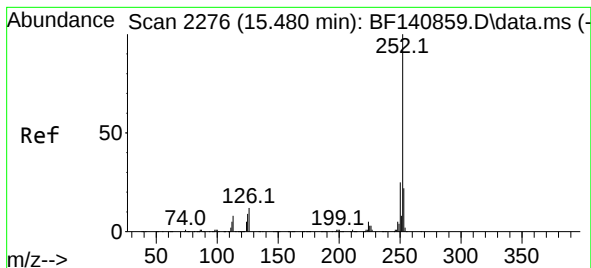
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 9.7 6.8 10.2





#90

Benzo(a)pyrene

Concen: 33.969 ng

RT: 15.457 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024

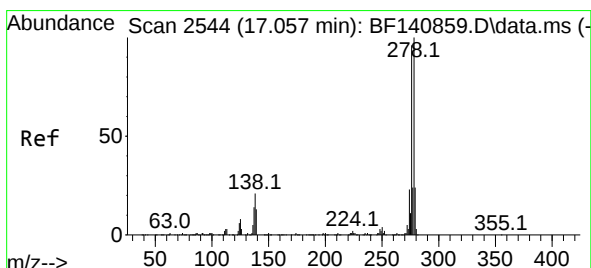
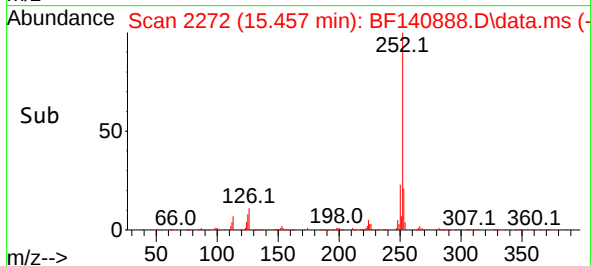
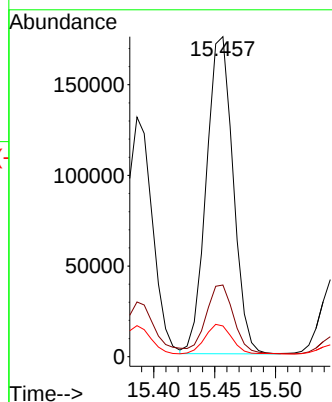
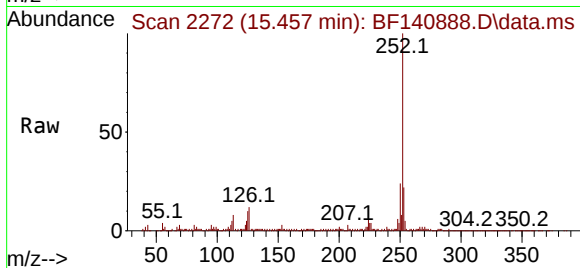
Tgt Ion:252 Resp: 267741

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 9.6 7.5 11.3



#91

Dibenzo(a,h)anthracene

Concen: 6.131 ng

RT: 17.021 min Scan# 2538

Delta R.T. -0.035 min

Lab File: BF140888.D

Acq: 17 Dec 2024 16:30

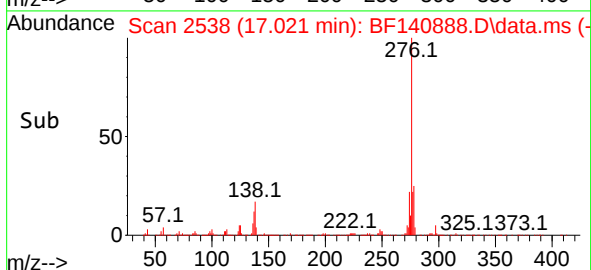
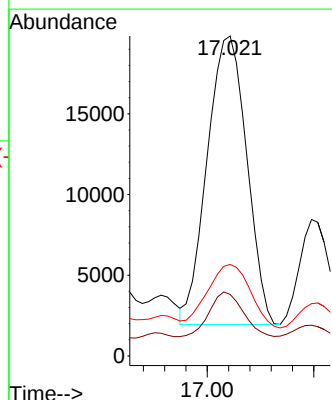
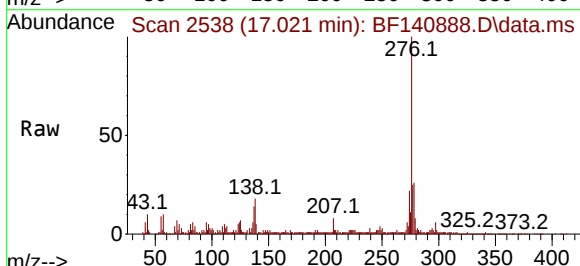
Tgt Ion:278 Resp: 45966

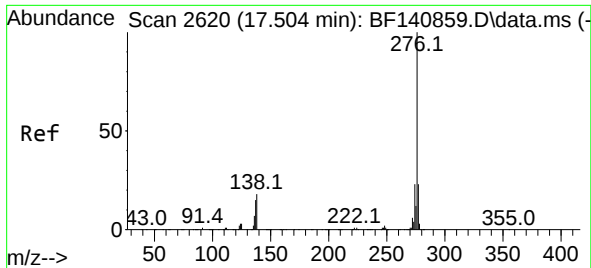
Ion Ratio Lower Upper

278 100

139 19.3 10.6 16.0#

279 28.6 19.2 28.8





#92
 Benzo(g,h,i)perylene
 Concen: 19.816 ng
 RT: 17.480 min Scan# 20
 Delta R.T. -0.024 min
 Lab File: BF140888.D
 Acq: 17 Dec 2024 16:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-12122024

Tgt Ion:276 Resp: 151194
 Ion Ratio Lower Upper
 276 100
 277 24.9 18.7 28.1
 138 17.5 14.2 21.2

