

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010224\  
 Data File : BF136871.D  
 Acq On : 02 Jan 2024 15:04  
 Operator : CG\JU  
 Sample : 06033-01DL 25X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-05-122723DL

Quant Time: Jan 02 15:30:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

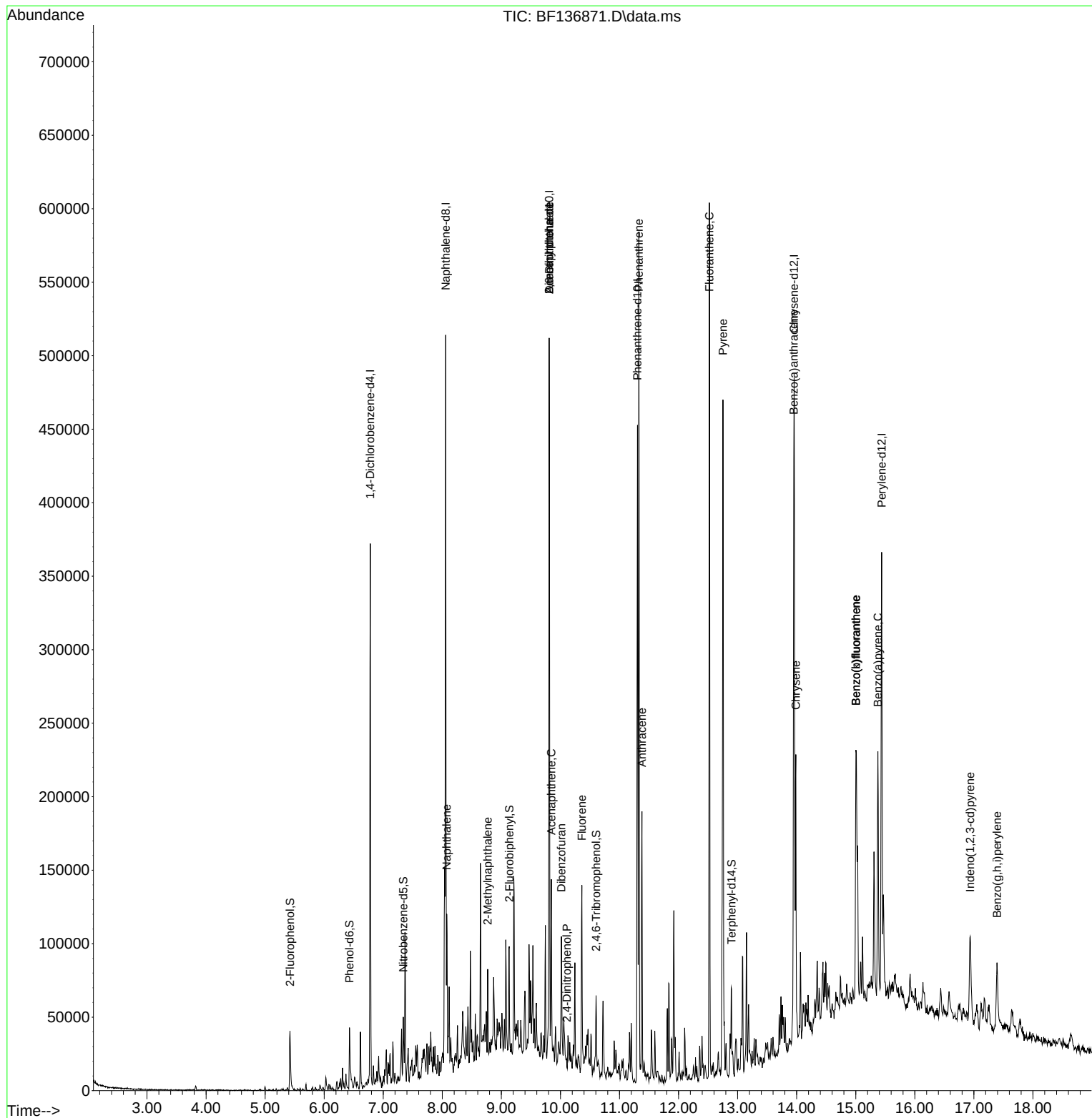
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.781  | 152  | 53522    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.057  | 136  | 192824   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.810  | 164  | 93636    | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.304 | 188  | 156861   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 13.957 | 240  | 117963   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 15.439 | 264  | 140037   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.422  | 112  | 15459    | 4.507  | ng    | 0.00     |
| 7) Phenol-d6                | 6.428  | 99   | 18050    | 4.061  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.339  | 82   | 11696    | 3.104  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.604 | 330  | 4067     | 3.688  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.133  | 172  | 23870    | 3.429  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.898 | 244  | 19702    | 2.334  | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.075  | 128  | 37348    | 3.526  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.769  | 142  | 15433    | 2.264  | ng    | 92       |
| 50) Dimethylphthalate       | 9.810  | 163  | 16469    | 2.408  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene      | 9.810  | 165  | 13408    | 8.638  | ng    | # 30     |
| 52) Acenaphthene            | 9.845  | 154  | 23124    | 4.086  | ng    | 96       |
| 54) 2,4-Dinitrophenol       | 10.110 | 184  | 62       | 3.804  | ng    | # 26     |
| 55) Dibenzofuran            | 10.016 | 168  | 24820    | 2.893  | ng    | 98       |
| 58) Fluorene                | 10.363 | 166  | 34650    | 5.090  | ng    | 96       |
| 71) Phenanthrene            | 11.327 | 178  | 193124   | 23.995 | ng    | 99       |
| 72) Anthracene              | 11.380 | 178  | 66881    | 8.205  | ng    | 100      |
| 75) Fluoranthene            | 12.521 | 202  | 224772   | 26.108 | ng    | 97       |
| 78) Pyrene                  | 12.751 | 202  | 185692   | 16.036 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.951 | 228  | 99232    | 12.114 | ng    | 97       |
| 83) Chrysene                | 13.986 | 228  | 80240    | 10.017 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.939 | 276  | 42004    | 4.154  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.004 | 252  | 141960   | 15.178 | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 15.004 | 252  | 141960   | 16.063 | ng    | 99       |
| 90) Benzo(a)pyrene          | 15.374 | 252  | 80640    | 10.214 | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.392 | 276  | 37633    | 4.430  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

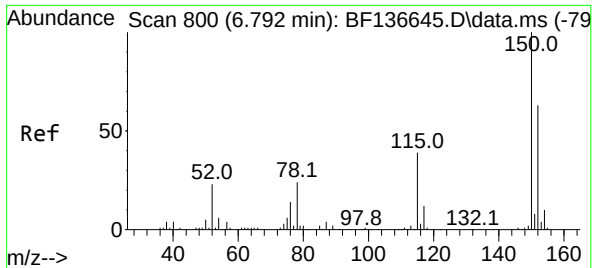
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010224\  
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BNA\_F  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 21 01:54:25 2023  
Response via : Initial Calibration

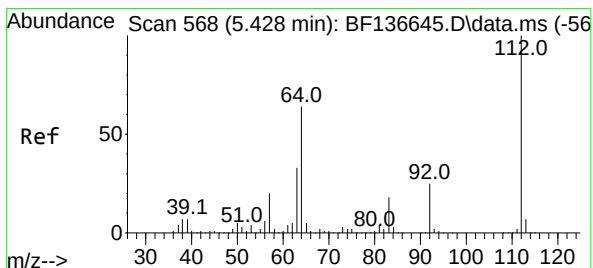
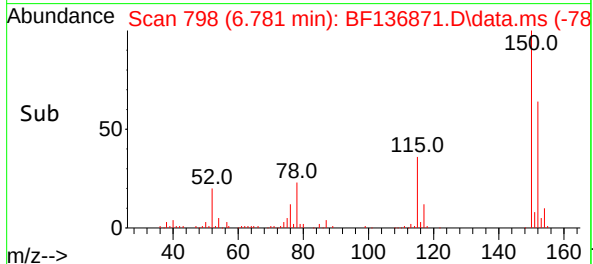
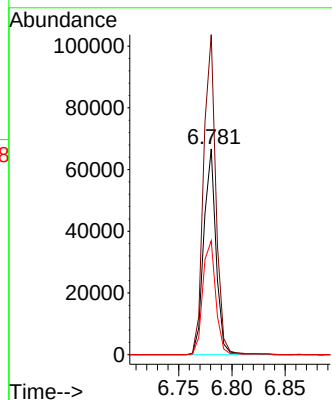
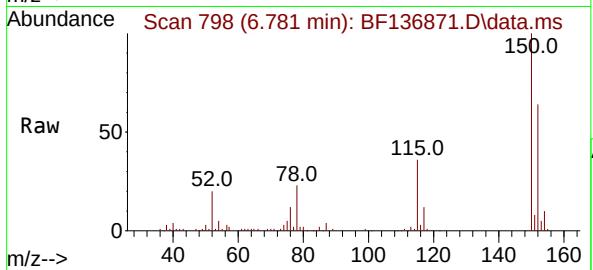




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 79  
Delta R.T. -0.011 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

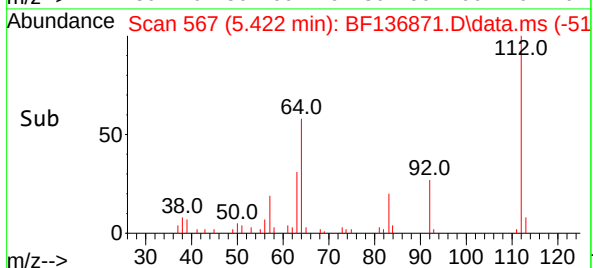
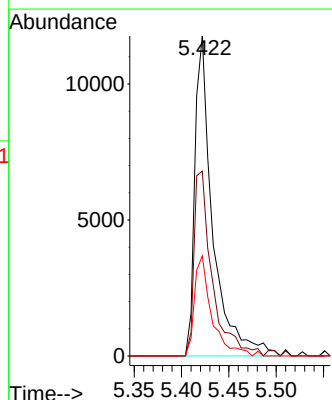
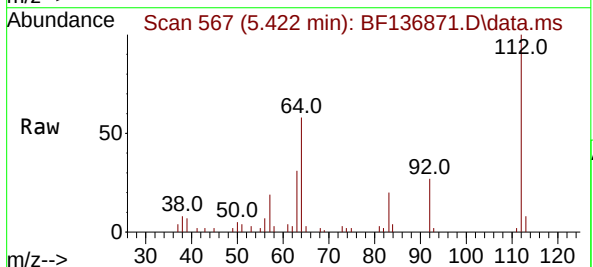
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

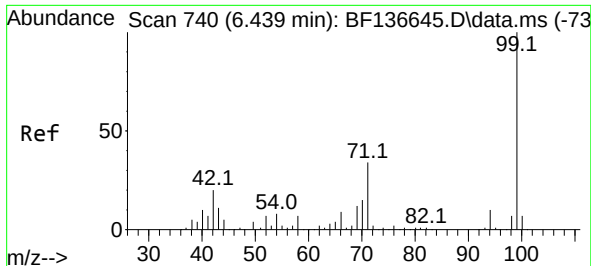
Tgt Ion:152 Resp: 53522  
Ion Ratio Lower Upper  
152 100  
150 155.5 127.0 190.6  
115 55.3 49.0 73.4



#5  
2-Fluorophenol  
Concen: 4.507 ng  
RT: 5.422 min Scan# 567  
Delta R.T. -0.006 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:112 Resp: 15459  
Ion Ratio Lower Upper  
112 100  
64 57.7 51.1 76.7  
63 31.3 26.1 39.1

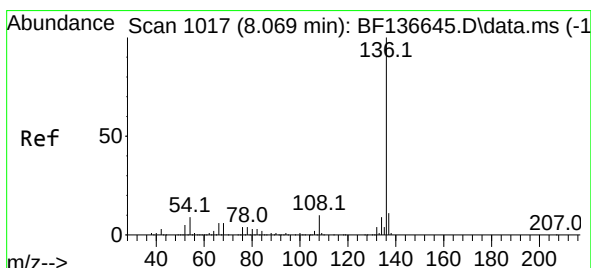
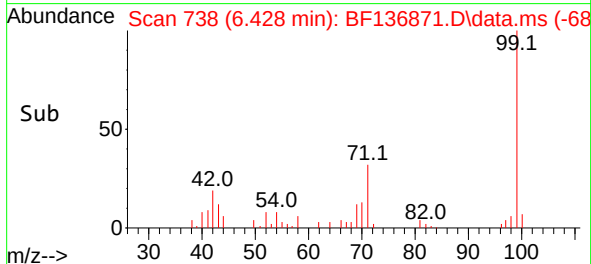
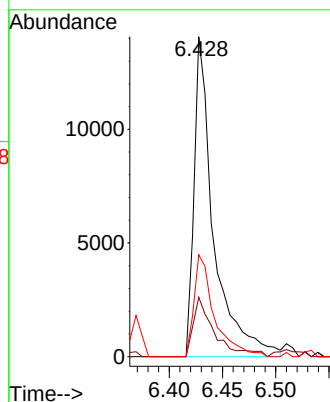
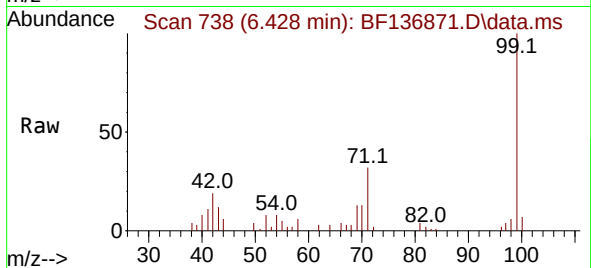




#7  
Phenol-d6  
Concen: 4.061 ng  
RT: 6.428 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

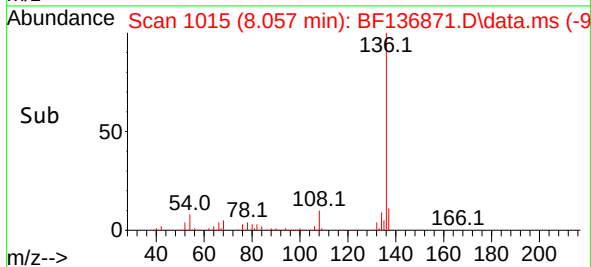
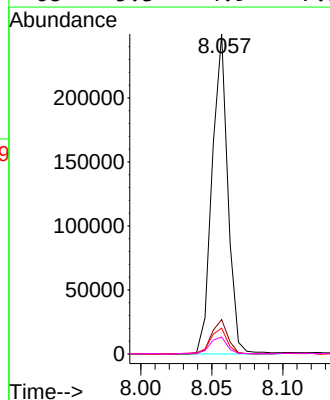
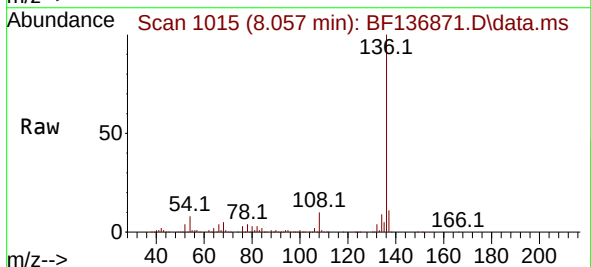
Instrument :  
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ClientSampleId :  
OR-05-122723DL

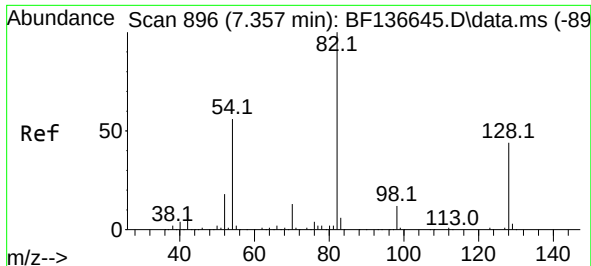
Tgt Ion: 99 Resp: 18050  
Ion Ratio Lower Upper  
99 100  
42 18.6 16.1 24.1  
71 31.9 27.4 41.2



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.057 min Scan# 1015  
Delta R.T. -0.012 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion: 136 Resp: 192824  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.0 13.4  
54 8.1 7.2 10.8  
68 5.3 4.9 7.3

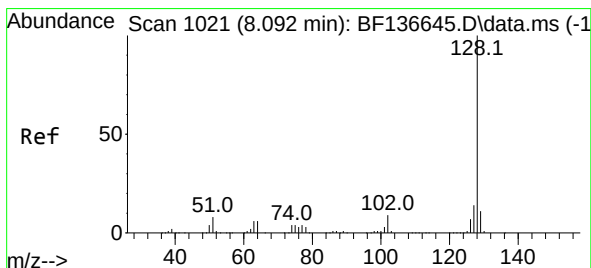
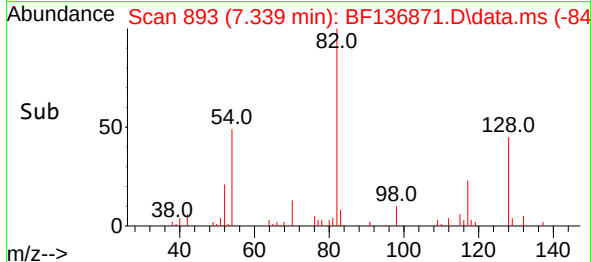
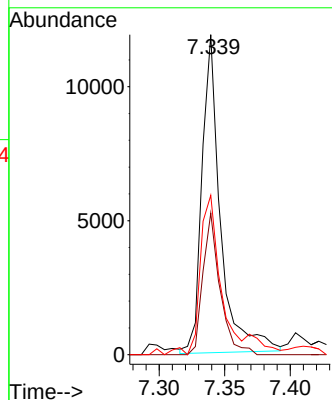
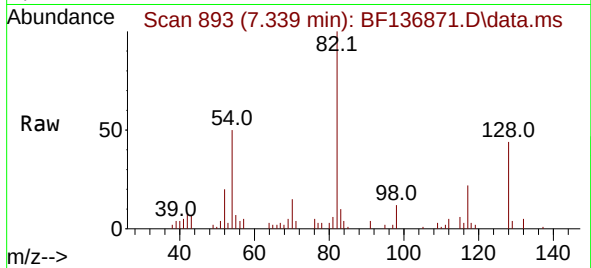




#23  
Nitrobenzene-d5  
Concen: 3.104 ng  
RT: 7.339 min Scan# 89  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

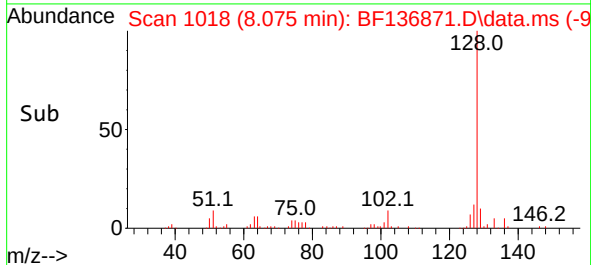
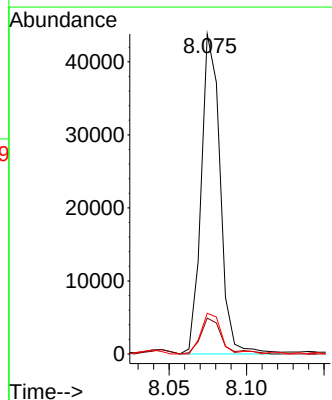
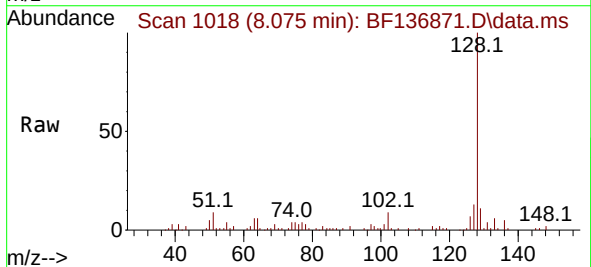
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

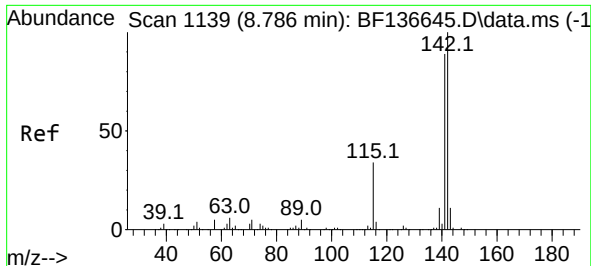
Tgt Ion: 82 Resp: 11696  
Ion Ratio Lower Upper  
82 100  
128 44.3 35.3 52.9  
54 49.8 44.5 66.7



#31  
Naphthalene  
Concen: 3.526 ng  
RT: 8.075 min Scan# 1018  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion: 128 Resp: 37348  
Ion Ratio Lower Upper  
128 100  
129 11.2 8.7 13.1  
127 12.7 10.8 16.2

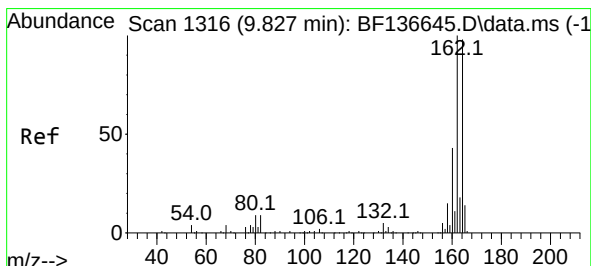
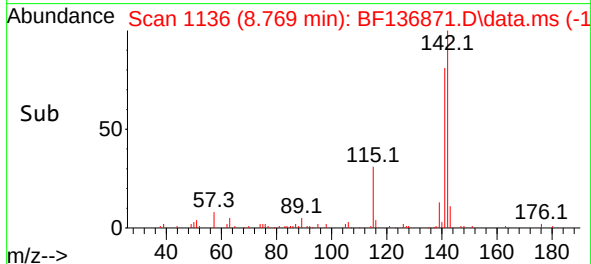
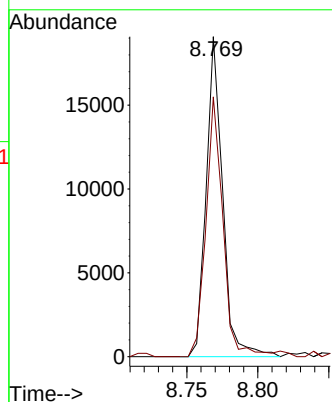
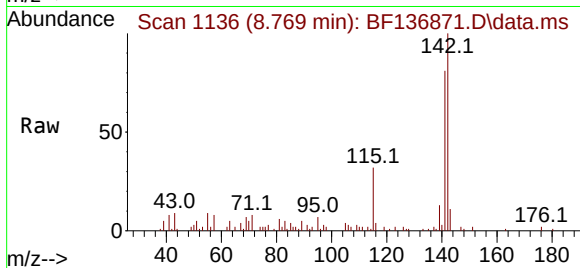




#37  
2-Methylnaphthalene  
Concen: 2.264 ng  
RT: 8.769 min Scan# 1136  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

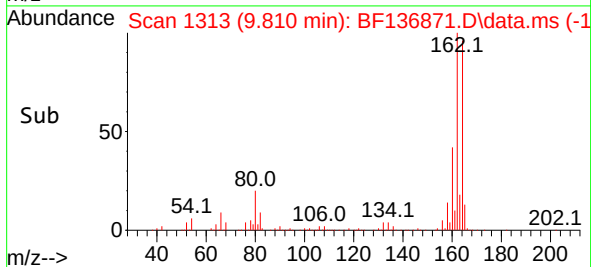
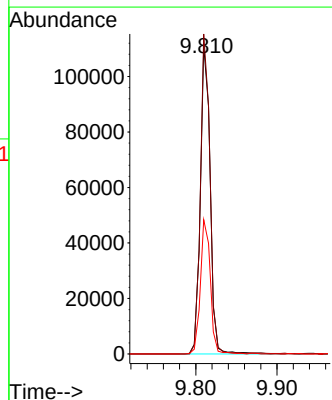
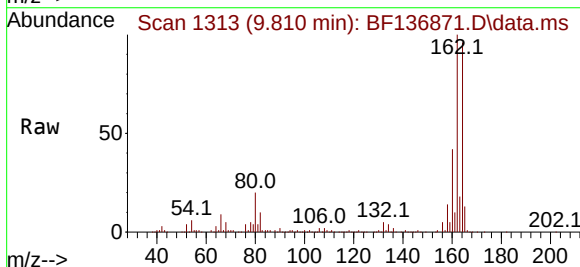
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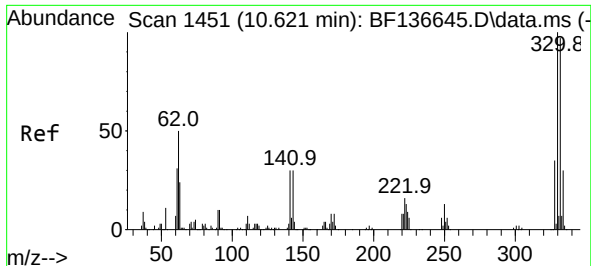
Tgt Ion:142 Resp: 15433  
Ion Ratio Lower Upper  
142 100  
141 81.2 71.1 106.7



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.810 min Scan# 1313  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:164 Resp: 93636  
Ion Ratio Lower Upper  
164 100  
162 103.9 81.6 122.4  
160 43.6 34.9 52.3





#42

2,4,6-Tribromophenol

Concen: 3.688 ng

RT: 10.604 min Scan# 1451

Delta R.T. -0.018 min

Lab File: BF136871.D

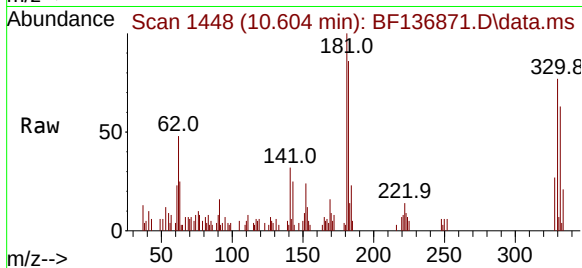
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BNA\_F

ClientSampleId :

OR-05-122723DL



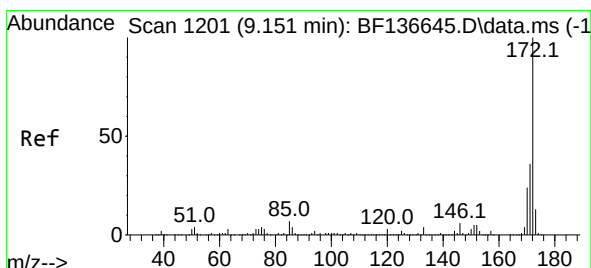
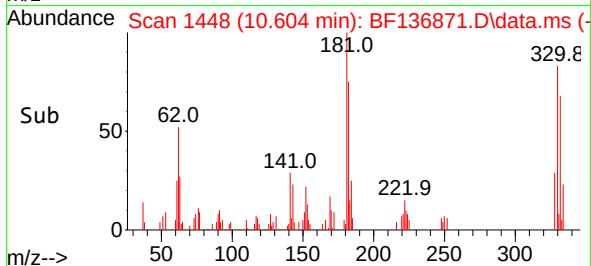
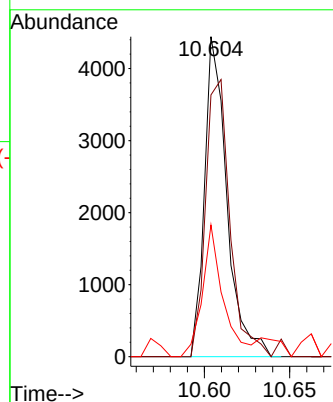
Tgt Ion:330 Resp: 4067

Ion Ratio Lower Upper

330 100

332 94.3 77.4 116.0

141 38.2 23.4 35.2#



#45

2-Fluorobiphenyl

Concen: 3.429 ng

RT: 9.133 min Scan# 1198

Delta R.T. -0.018 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

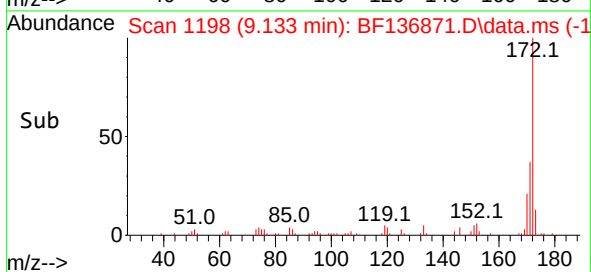
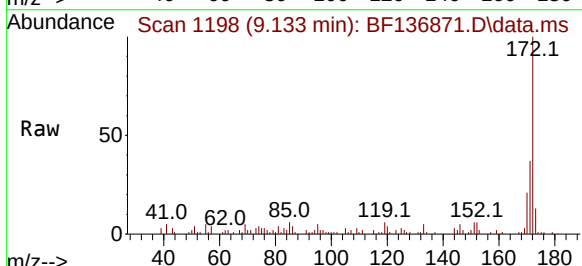
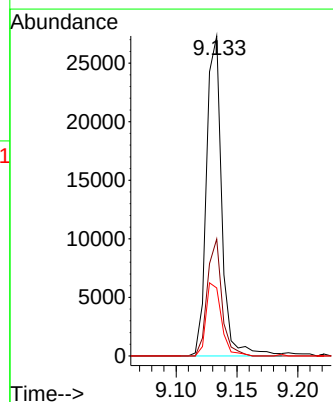
Tgt Ion:172 Resp: 23870

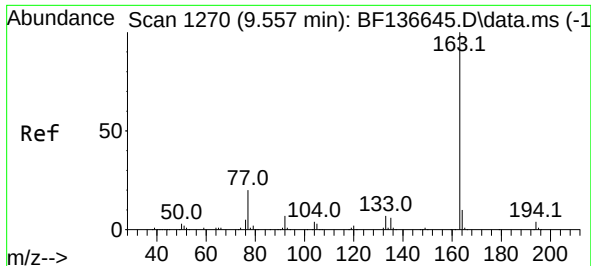
Ion Ratio Lower Upper

172 100

171 36.5 29.0 43.6

170 21.2 19.0 28.4

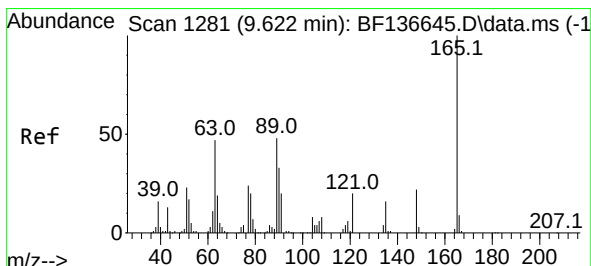
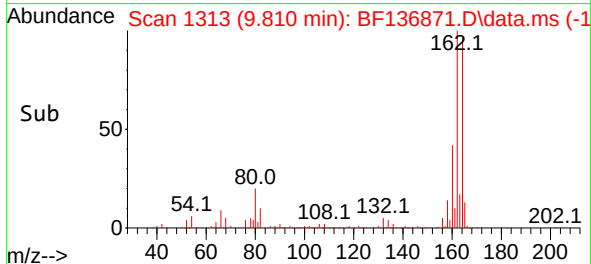
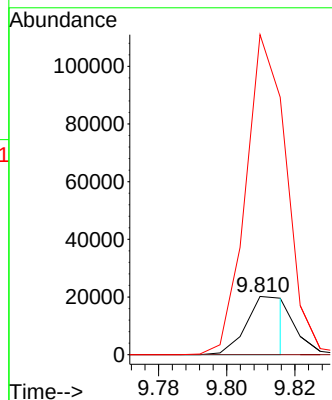
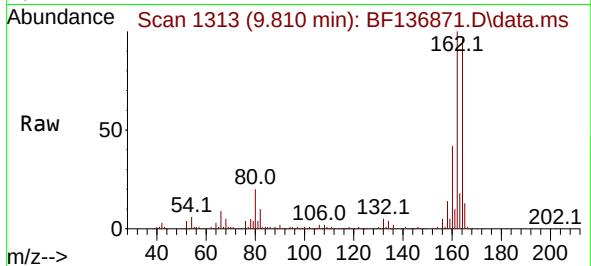




#50  
Dimethylphthalate  
Concen: 2.408 ng  
RT: 9.810 min Scan# 11  
Delta R.T. 0.253 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

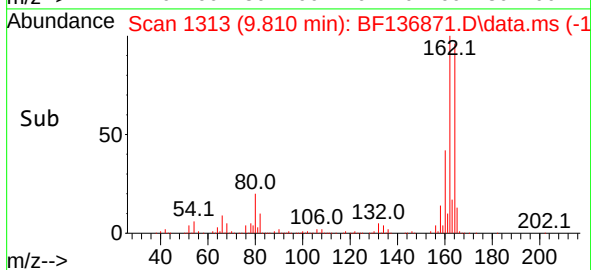
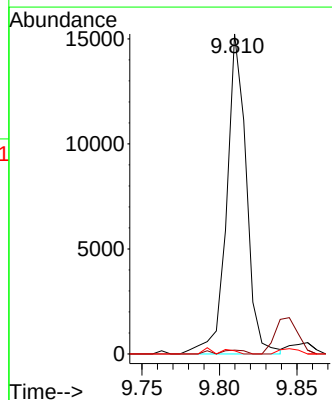
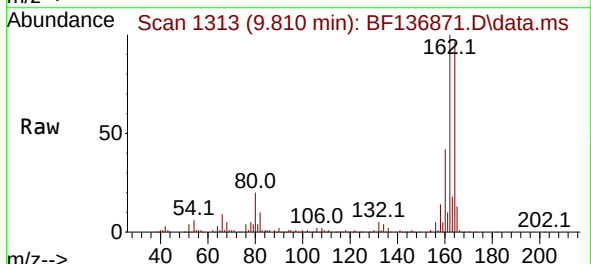
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

Tgt Ion:163 Resp: 16469  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 549.8 7.8 11.6#

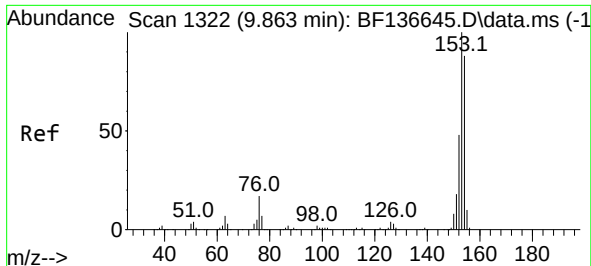


#51  
2,6-Dinitrotoluene  
Concen: 8.638 ng  
RT: 9.810 min Scan# 1313  
Delta R.T. 0.188 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:165 Resp: 13408  
Ion Ratio Lower Upper  
165 100  
63 1.2 39.8 59.6#  
89 1.0 38.8 58.2#



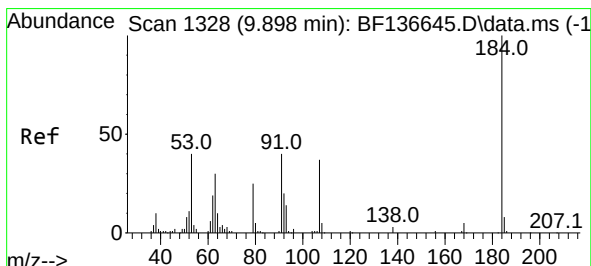
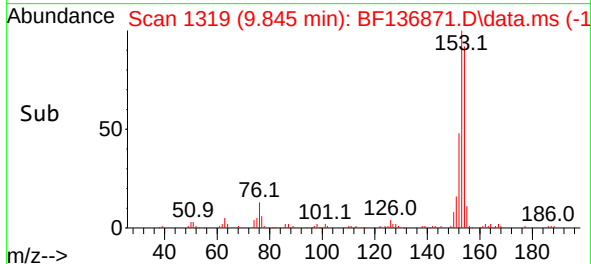
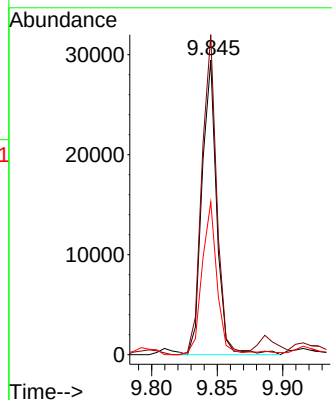
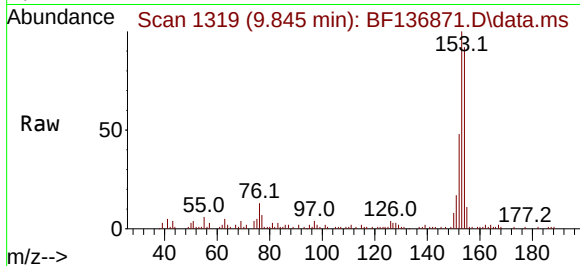




#52  
Acenaphthene  
Concen: 4.086 ng  
RT: 9.845 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

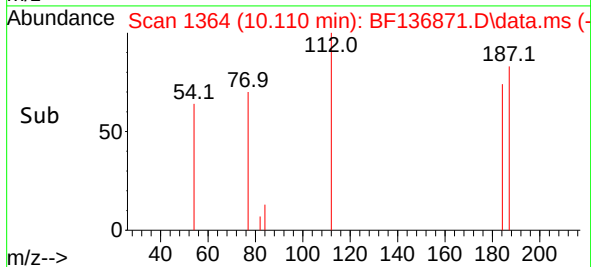
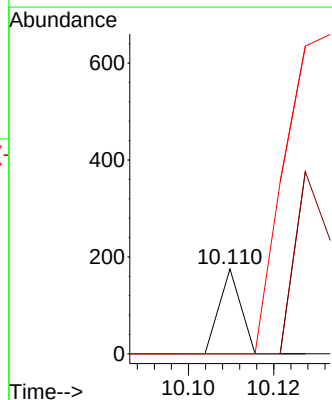
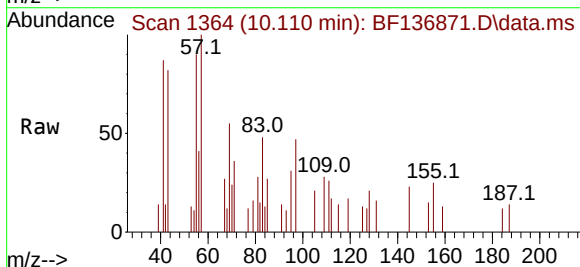
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

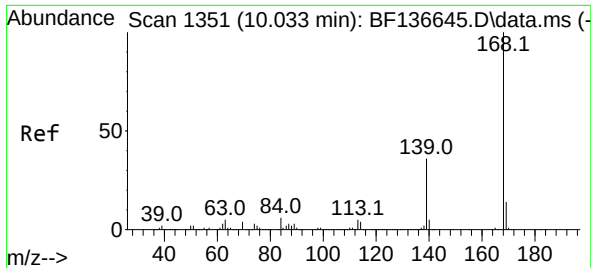
Tgt Ion:154 Resp: 23124  
Ion Ratio Lower Upper  
154 100  
153 108.6 90.7 136.1  
152 51.9 43.7 65.5



#54  
2,4-Dinitrophenol  
Concen: 3.804 ng  
RT: 10.110 min Scan# 1364  
Delta R.T. 0.212 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:184 Resp: 62  
Ion Ratio Lower Upper  
184 100  
63 0.0 40.9 61.3#  
154 0.0 42.7 64.1#

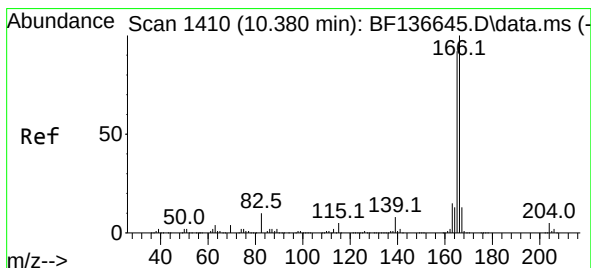
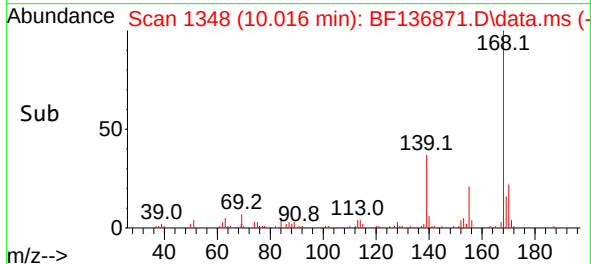
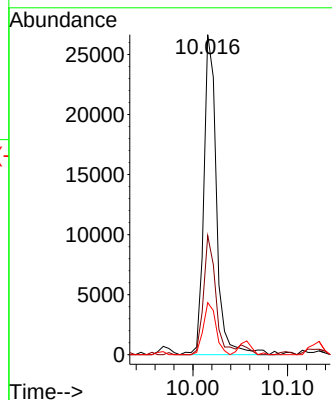
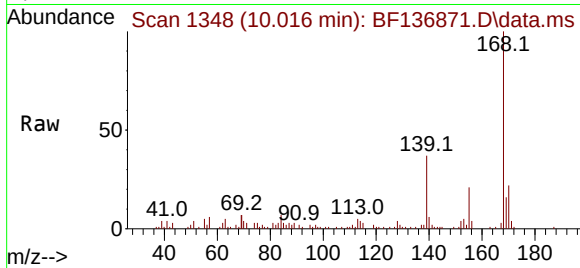




#55  
Dibenzenofuran  
Concen: 2.893 ng  
RT: 10.016 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

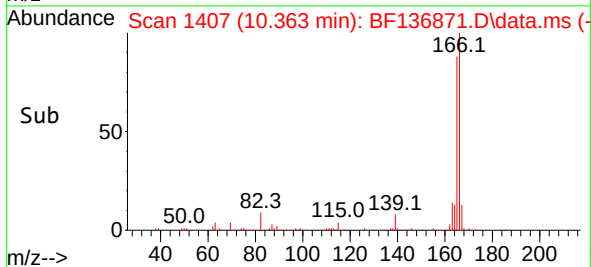
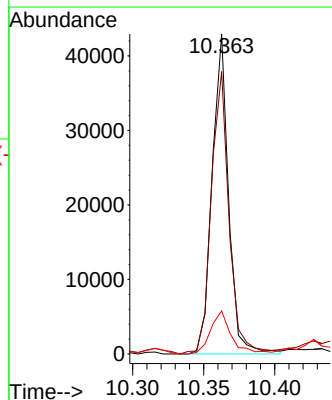
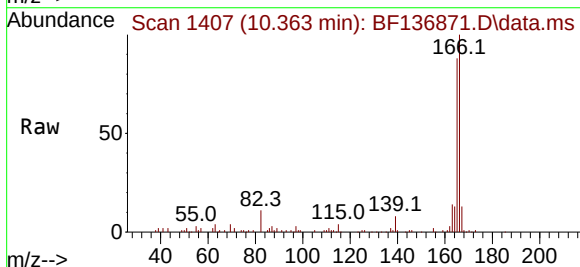
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

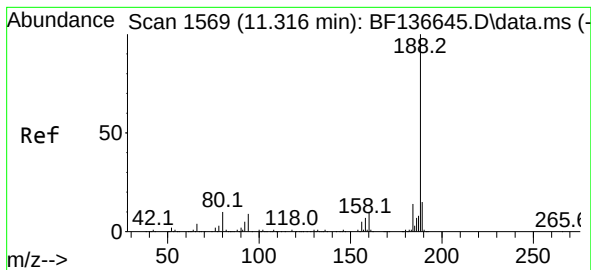
Tgt Ion:168 Resp: 24820  
Ion Ratio Lower Upper  
168 100  
139 37.2 29.3 43.9  
169 16.3 11.0 16.4



#58  
Fluorene  
Concen: 5.090 ng  
RT: 10.363 min Scan# 1407  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:166 Resp: 34650  
Ion Ratio Lower Upper  
166 100  
165 88.3 73.7 110.5  
167 13.4 10.4 15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.304 min Scan# 1567

Delta R.T. -0.012 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

Instrument :

BNA\_F

ClientSampleId :

OR-05-122723DL

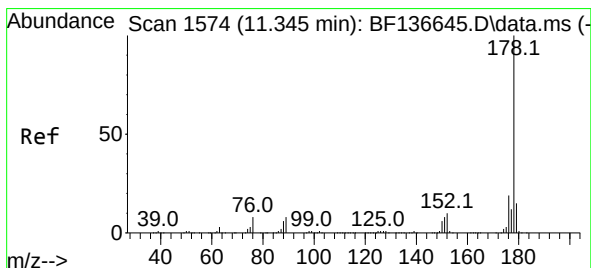
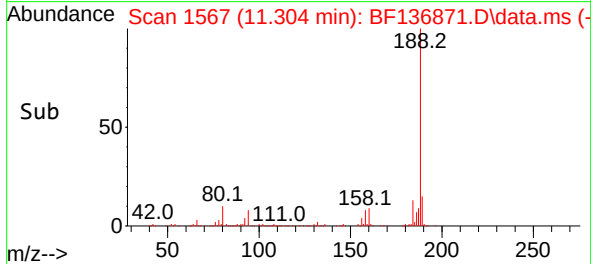
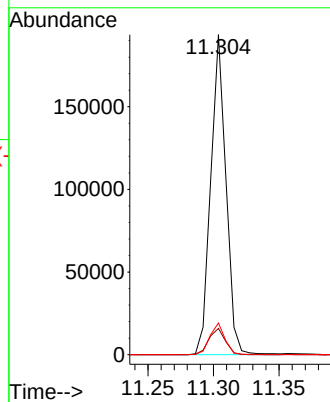
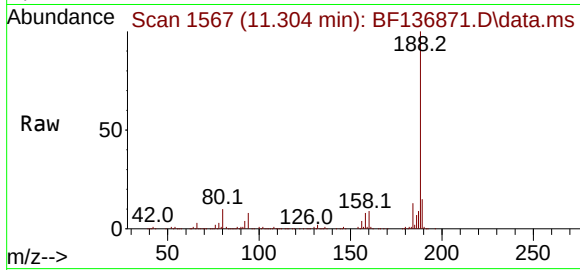
Tgt Ion:188 Resp: 156861

Ion Ratio Lower Upper

188 100

94 8.2 7.5 11.3

80 9.9 8.1 12.1



#71

Phenanthrene

Concen: 23.995 ng

RT: 11.327 min Scan# 1571

Delta R.T. -0.018 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

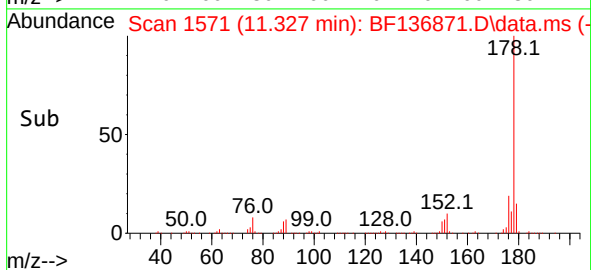
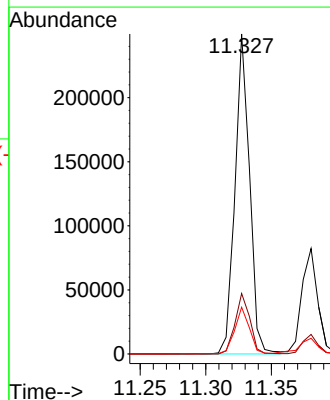
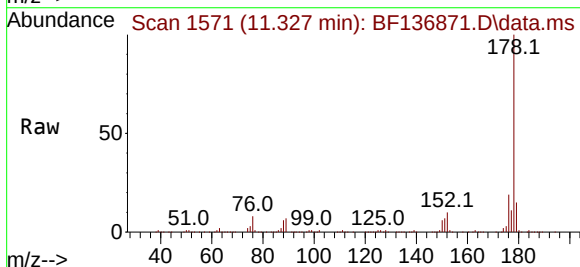
Tgt Ion:178 Resp: 193124

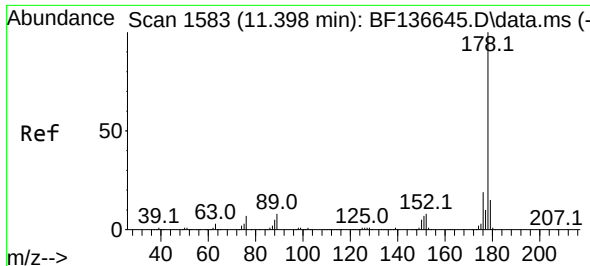
Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

179 14.6 11.9 17.9

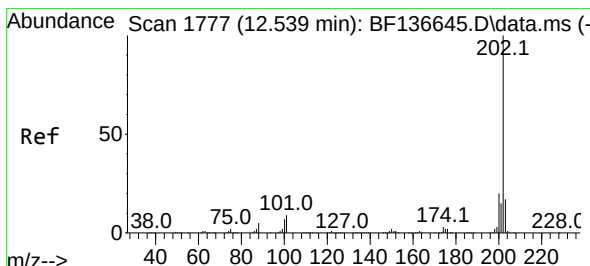
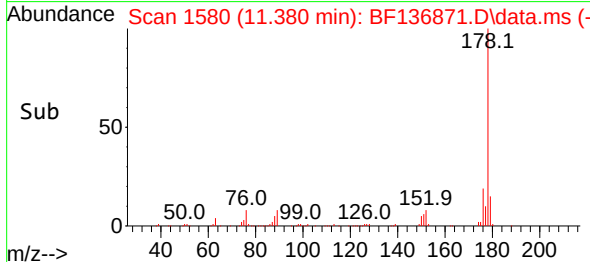
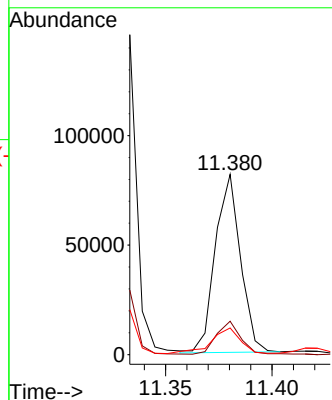
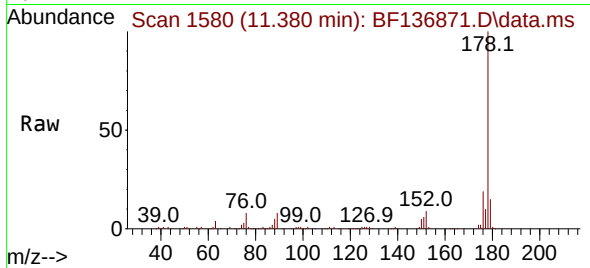




#72  
Anthracene  
Concen: 8.205 ng  
RT: 11.380 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

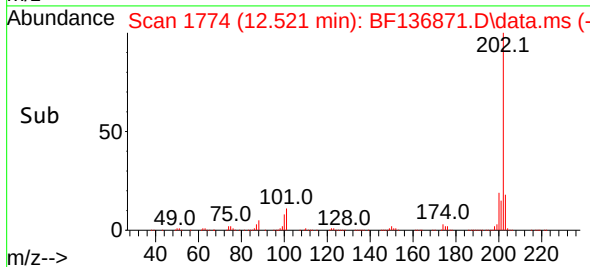
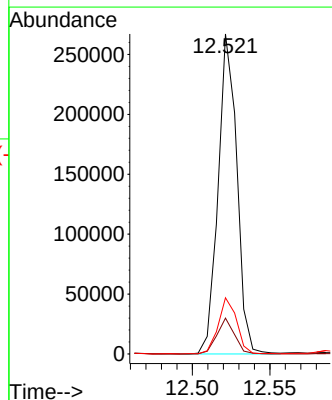
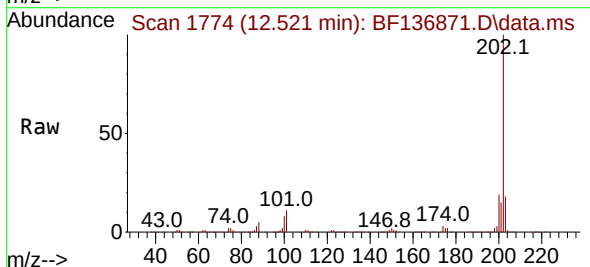
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

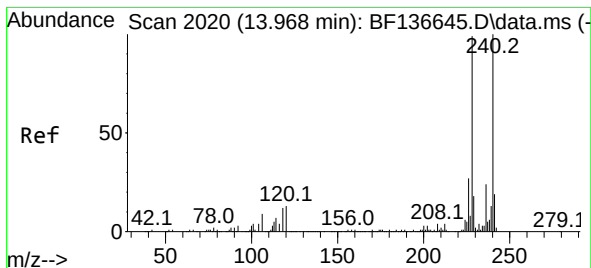
Tgt Ion:178 Resp: 66881  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.9 22.3  
179 14.8 11.8 17.6



#75  
Fluoranthene  
Concen: 26.108 ng  
RT: 12.521 min Scan# 1774  
Delta R.T. -0.018 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:202 Resp: 224772  
Ion Ratio Lower Upper  
202 100  
101 11.2 0.0 29.3  
203 17.6 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

Instrument :

BNA\_F

ClientSampleId :

OR-05-122723DL

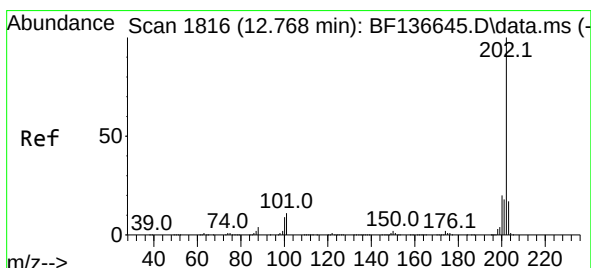
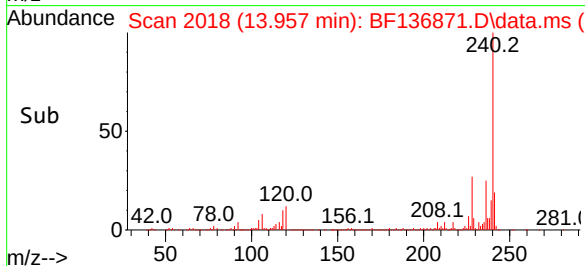
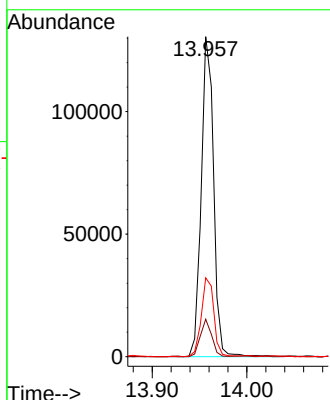
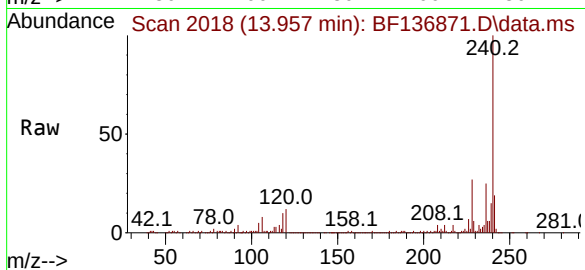
Tgt Ion:240 Resp: 117963

Ion Ratio Lower Upper

240 100

120 11.7 10.3 15.5

236 24.7 19.4 29.2



#78

Pyrene

Concen: 16.036 ng

RT: 12.751 min Scan# 1813

Delta R.T. -0.018 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

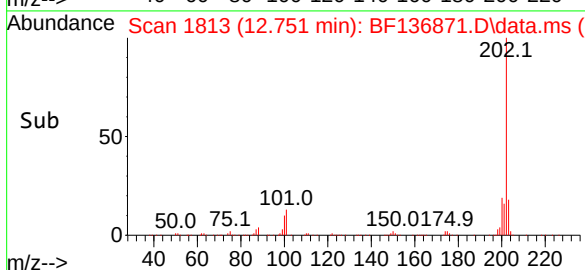
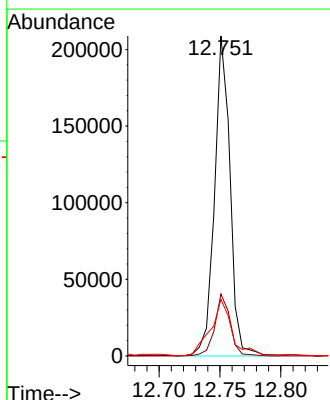
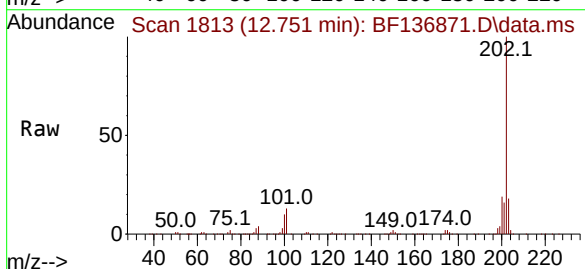
Tgt Ion:202 Resp: 185692

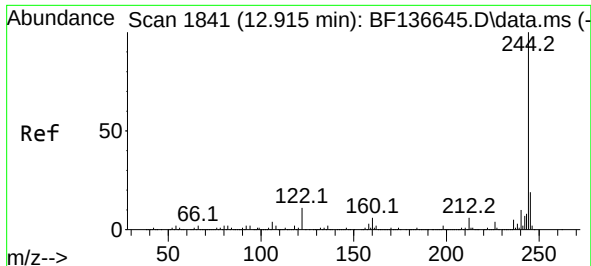
Ion Ratio Lower Upper

202 100

200 19.4 15.9 23.9

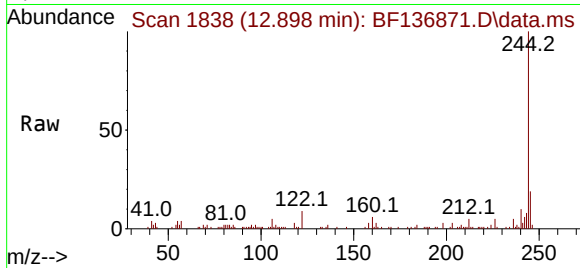
203 17.7 13.8 20.6



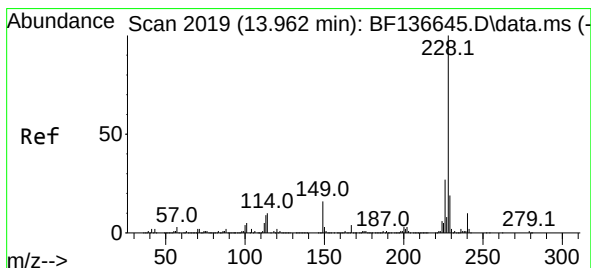
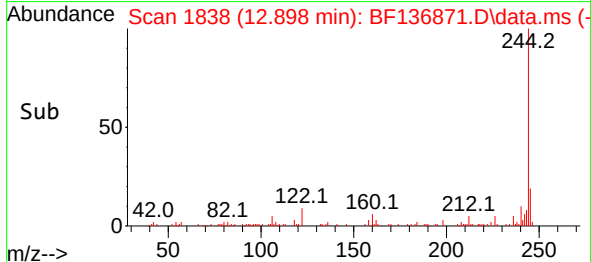
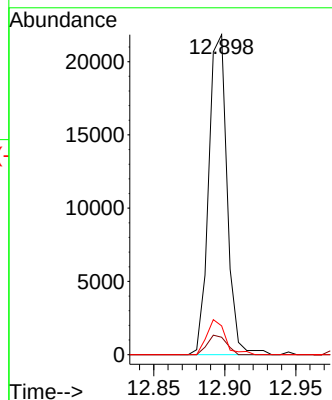


#79  
 Terphenyl-d14  
 Concen: 2.334 ng  
 RT: 12.898 min Scan# 1838  
 Delta R.T. -0.018 min  
 Lab File: BF136871.D  
 Acq: 02 Jan 2024 15:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-05-122723DL

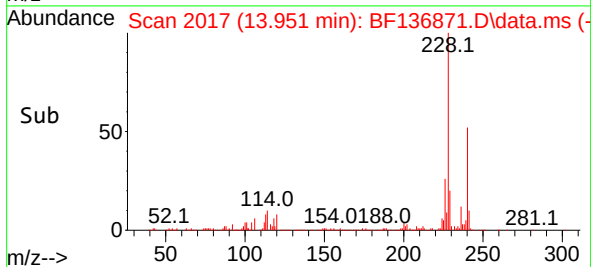
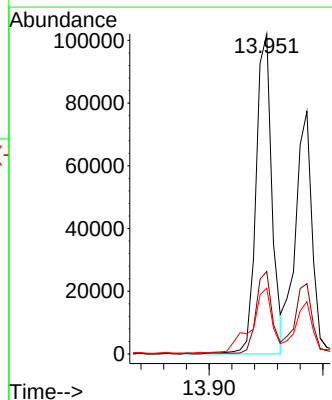
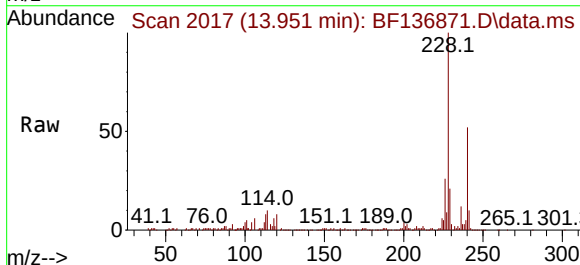


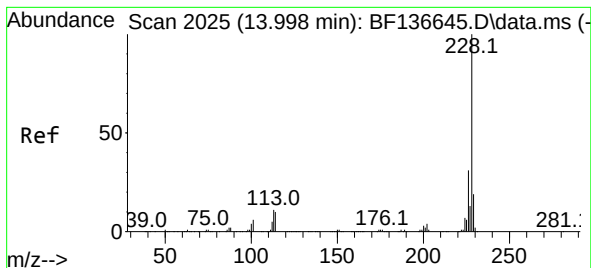
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 19702 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 5.5   | 5.0   | 7.4   |
| 122       | 9.0   | 9.0   | 13.4  |



#81  
 Benzo(a)anthracene  
 Concen: 12.114 ng  
 RT: 13.951 min Scan# 2017  
 Delta R.T. -0.012 min  
 Lab File: BF136871.D  
 Acq: 02 Jan 2024 15:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 99232 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 25.8  | 21.4  | 32.0  |
| 229       | 20.6  | 14.9  | 22.3  |





#83

Chrysene

Concen: 10.017 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

Instrument :

BNA\_F

ClientSampleId :

OR-05-122723DL

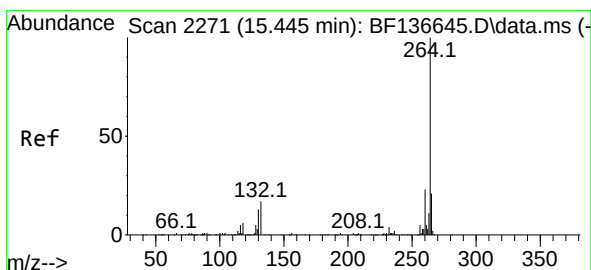
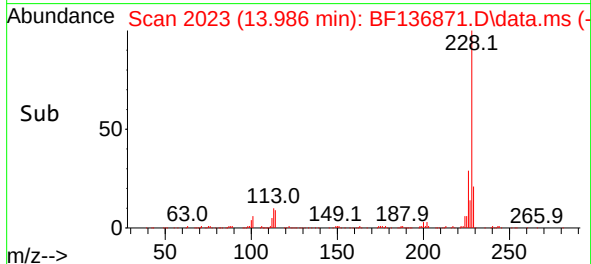
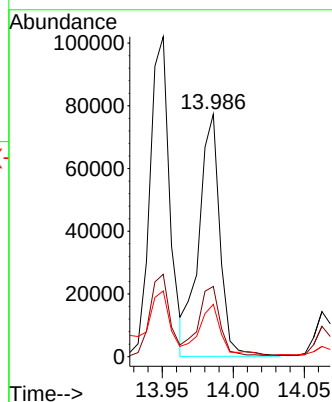
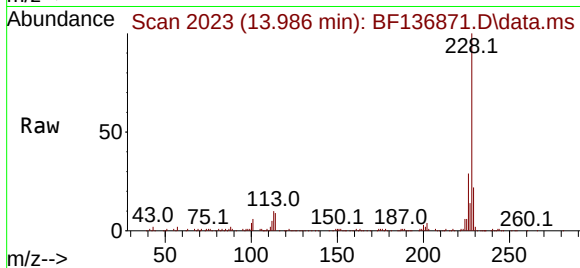
Tgt Ion:228 Resp: 80240

Ion Ratio Lower Upper

228 100

226 28.9 24.7 37.1

229 21.5 15.4 23.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.439 min Scan# 2270

Delta R.T. -0.006 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

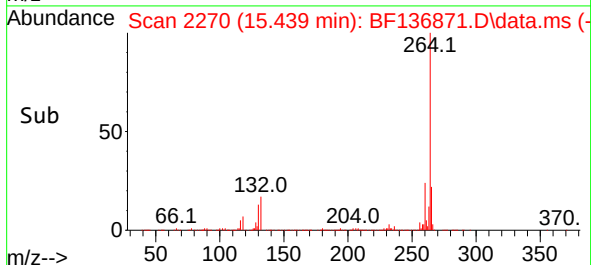
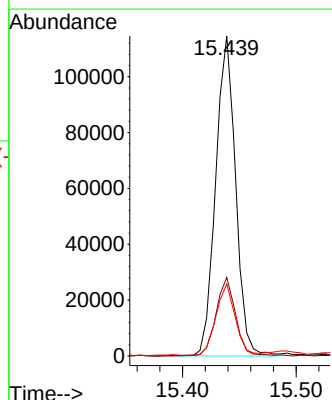
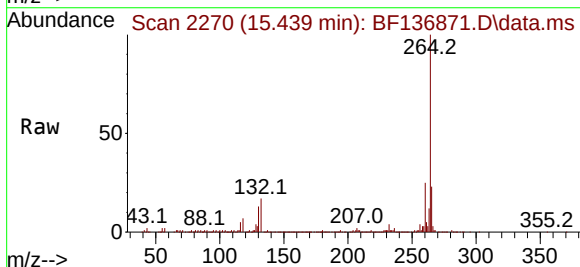
Tgt Ion:264 Resp: 140037

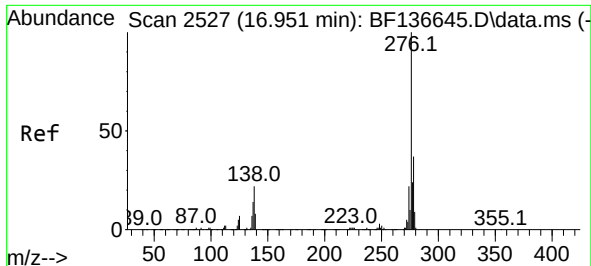
Ion Ratio Lower Upper

264 100

260 24.6 18.3 27.5

265 22.6 17.0 25.6

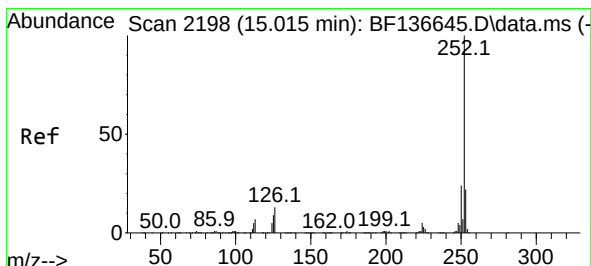
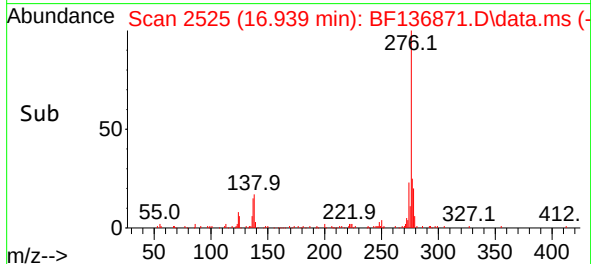
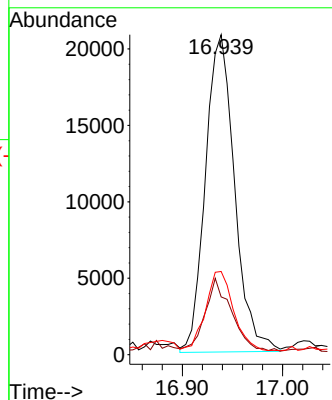
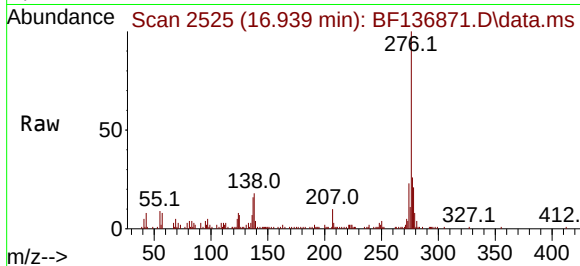




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.154 ng  
RT: 16.939 min Scan# 2196  
Delta R.T. -0.012 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

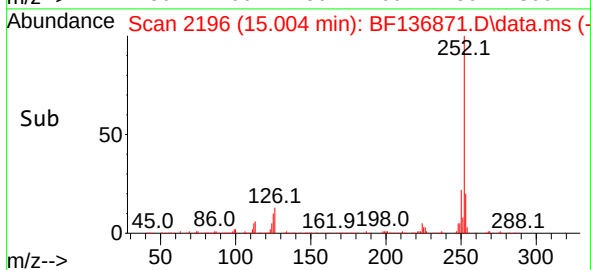
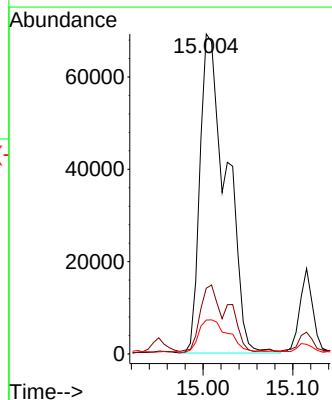
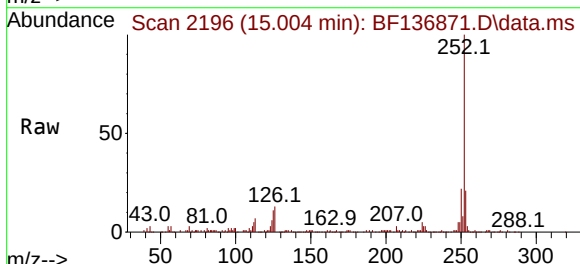
Instrument :  
BNA\_F  
ClientSampleId :  
OR-05-122723DL

Tgt Ion:276 Resp: 42004  
Ion Ratio Lower Upper  
276 100  
138 22.3 18.7 28.1  
277 23.8 20.2 30.2

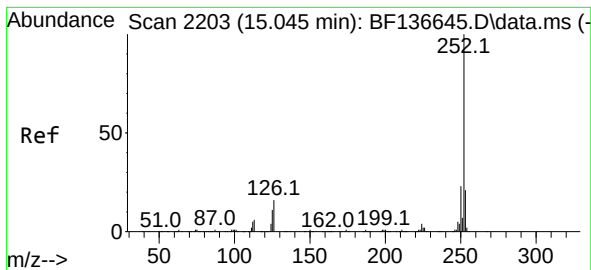


#88  
Benzo(b)fluoranthene  
Concen: 15.178 ng  
RT: 15.004 min Scan# 2196  
Delta R.T. -0.012 min  
Lab File: BF136871.D  
Acq: 02 Jan 2024 15:04

Tgt Ion:252 Resp: 141960  
Ion Ratio Lower Upper  
252 100  
253 20.5 17.4 26.0  
125 10.6 7.4 11.2







#89

Benzo(k)fluoranthene

Concen: 16.063 ng

RT: 15.004 min Scan# 2196

Delta R.T. -0.041 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

Instrument :

BNA\_F

ClientSampleId :

OR-05-122723DL

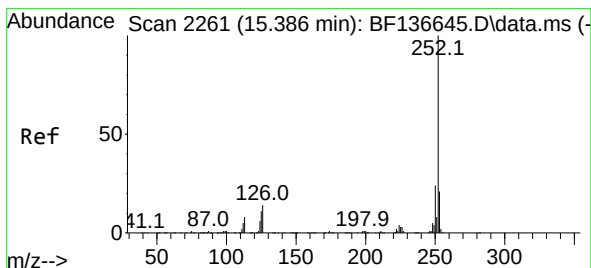
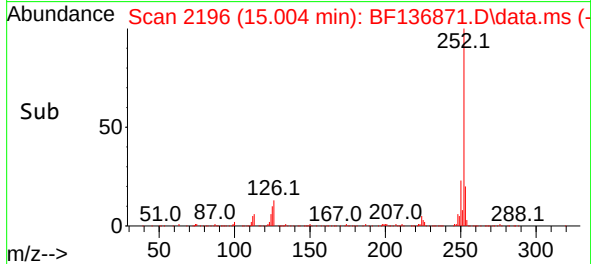
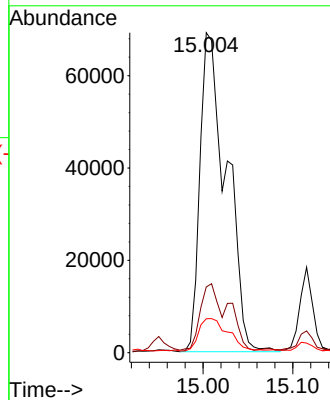
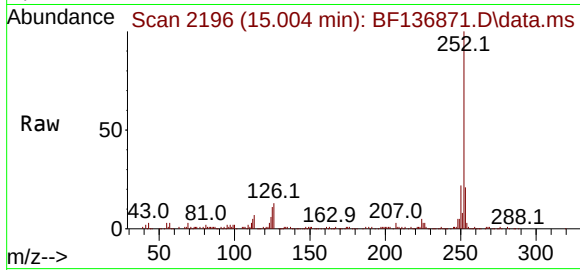
Tgt Ion:252 Resp: 141960

Ion Ratio Lower Upper

252 100

253 20.5 17.0 25.6

125 10.6 8.2 12.4



#90

Benzo(a)pyrene

Concen: 10.214 ng

RT: 15.374 min Scan# 2259

Delta R.T. -0.012 min

Lab File: BF136871.D

Acq: 02 Jan 2024 15:04

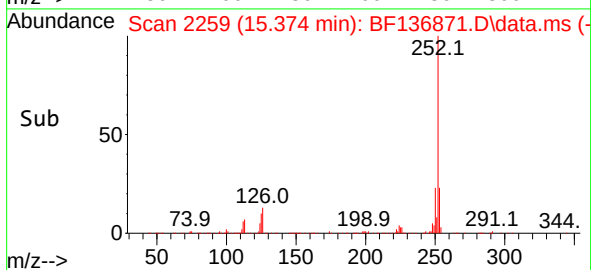
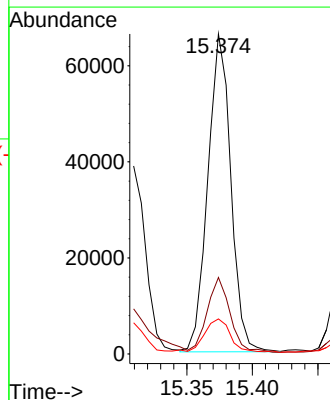
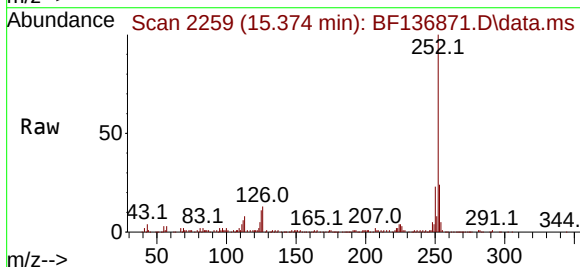
Tgt Ion:252 Resp: 80640

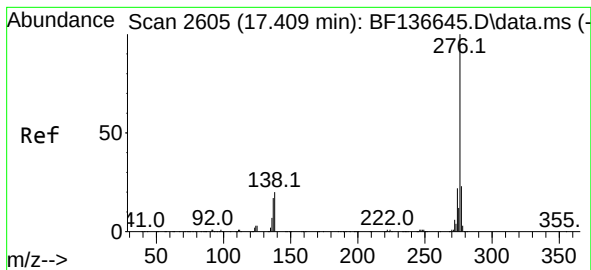
Ion Ratio Lower Upper

252 100

253 23.9 17.0 25.6

125 11.0 8.8 13.2





#92

Benzo(g,h,i)perylene

Concen: 4.430 ng

RT: 17.392 min Scan# 2

Delta R.T. -0.018 min

Lab File: BF136871.D

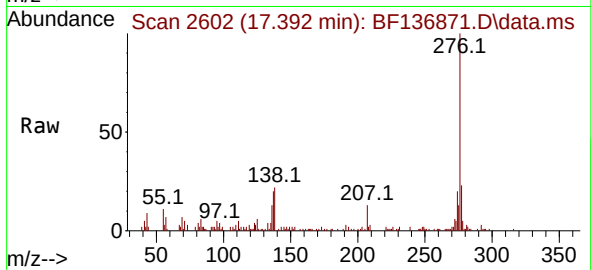
Acq: 02 Jan 2024 15:04

Instrument :

BNA\_F

ClientSampleId :

OR-05-122723DL



Tgt Ion:276 Resp: 37633

Ion Ratio Lower Upper

276 100

277 23.2 18.3 27.5

138 21.7 15.6 23.4

