

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010524\  
 Data File : BF136974.D  
 Acq On : 05 Jan 2024 14:18  
 Operator : CG\JU  
 Sample : 05899-21DL2 100X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GHL-SS-18-0-2DL2

Quant Time: Jan 05 14:49:03 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

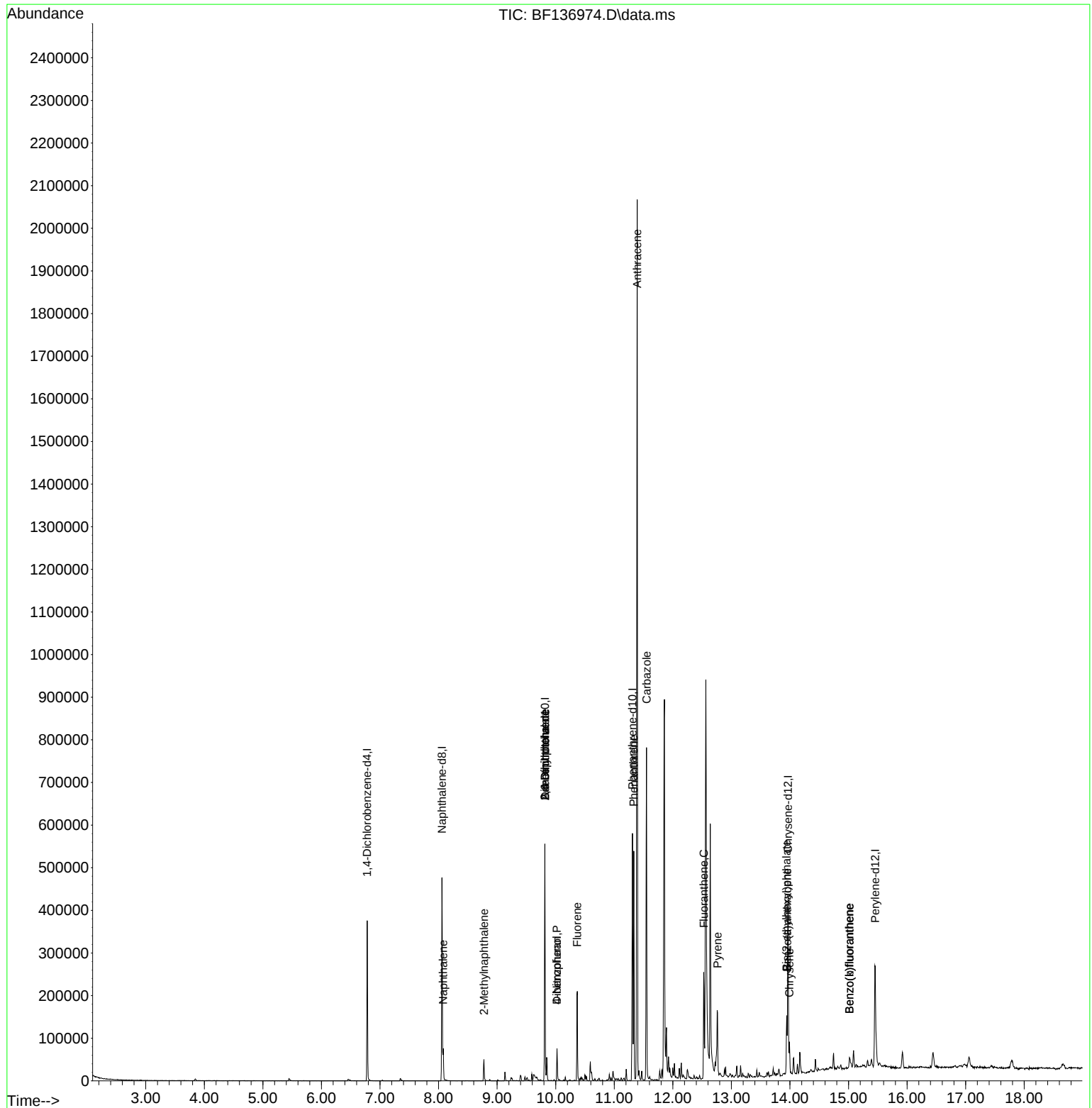
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 53688    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.057  | 136  | 202113   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.816  | 164  | 103934   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.310 | 188  | 197017   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.968 | 240  | 126142   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.456 | 264  | 121682   | 20.000 | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.445  | 112  | 3228     | 0.938  | ng    | 0.02     |
| 7) Phenol-d6                  | 6.451  | 99   | 3857     | 0.865  | ng    | 0.01     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 2771     | 0.702  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 1476     | 1.206  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.133  | 172  | 7027     | 0.909  | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.904 | 244  | 8087     | 0.896  | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 31) Naphthalene               | 8.081  | 128  | 30019    | 2.704  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.775  | 142  | 14943    | 2.091  | ng    | 99       |
| 50) Dimethylphthalate         | 9.816  | 163  | 19972    | 2.631  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.816  | 165  | 13044    | 7.571  | ng    | # 29     |
| 55) Dibenzofuran              | 10.022 | 168  | 31120    | 3.268  | ng    | 99       |
| 56) 4-Nitrophenol             | 10.022 | 139  | 10673    | 8.663  | ng    | # 9      |
| 57) 2,4-Dinitrotoluene        | 9.816  | 165  | 13044    | 5.832  | ng    | # 20     |
| 58) Fluorene                  | 10.369 | 166  | 63635    | 8.422  | ng    | 100      |
| 71) Phenanthrene              | 11.333 | 178  | 179937   | 17.800 | ng    | 99       |
| 72) Anthracene                | 11.392 | 178  | 780268   | 76.215 | ng    | 99       |
| 73) Carbazole                 | 11.551 | 167  | 302564   | 31.346 | ng    | 99       |
| 75) Fluoranthene              | 12.527 | 202  | 98925    | 9.149  | ng    | 98       |
| 78) Pyrene                    | 12.763 | 202  | 68081    | 5.498  | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 21091    | 2.408  | ng    | 96       |
| 83) Chrysene                  | 13.992 | 228  | 25358    | 2.960  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 13.945 | 149  | 33665    | 5.938  | ng    | # 97     |
| 88) Benzo(b)fluoranthene      | 15.015 | 252  | 17194    | 2.116  | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 15.015 | 252  | 17194    | 2.239  | ng    | 93       |
| -----                         |        |      |          |        |       |          |

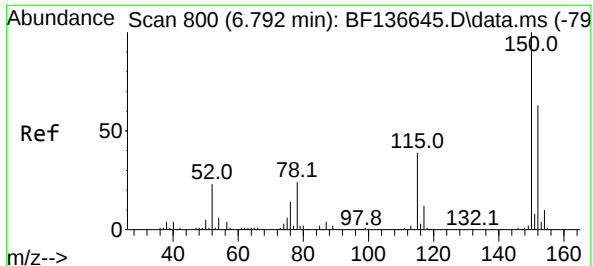
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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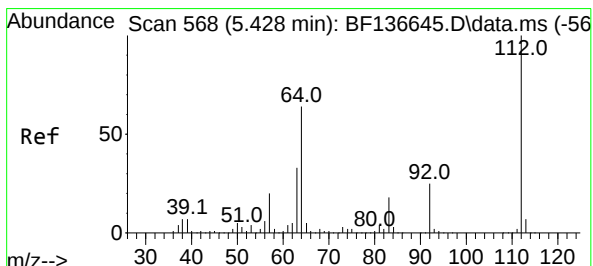
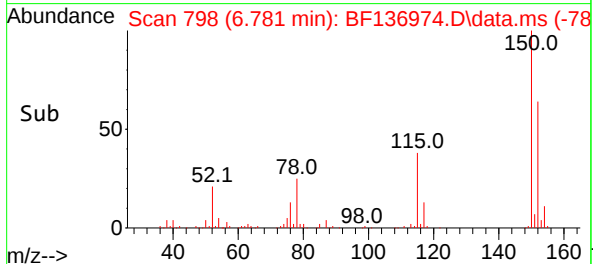
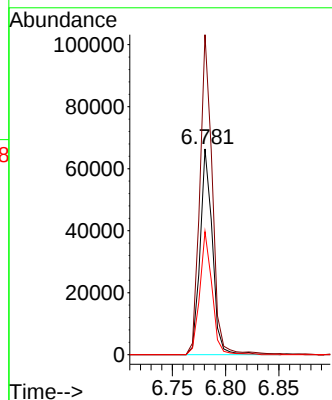
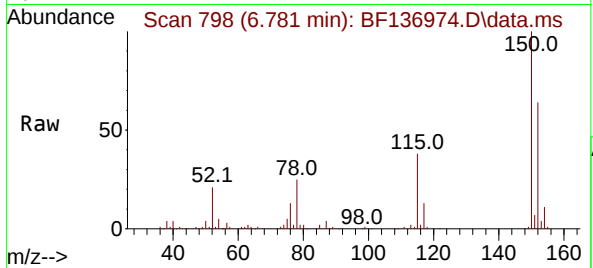




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 79  
Delta R.T. -0.011 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

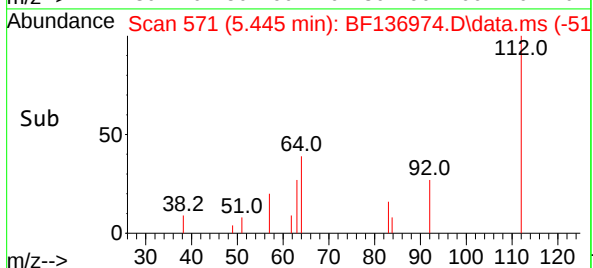
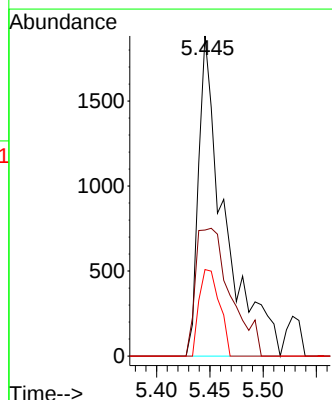
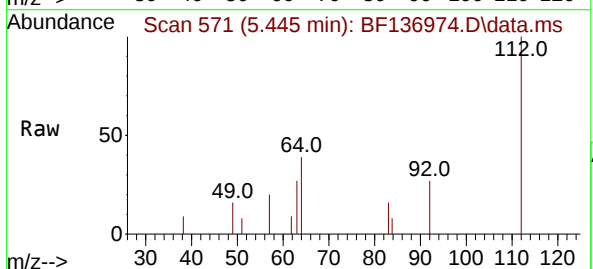
Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

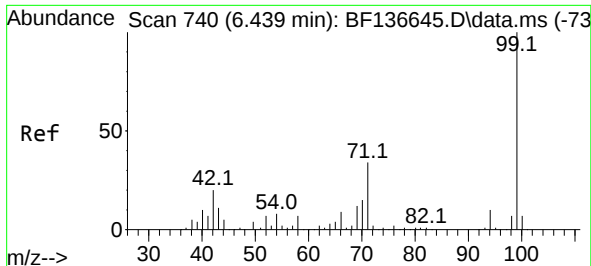
Tgt Ion:152 Resp: 53688  
Ion Ratio Lower Upper  
152 100  
150 155.5 127.0 190.6  
115 59.8 49.0 73.4



#5  
2-Fluorophenol  
Concen: 0.938 ng  
RT: 5.445 min Scan# 571  
Delta R.T. 0.018 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:112 Resp: 3228  
Ion Ratio Lower Upper  
112 100  
64 39.4 51.1 76.7#  
63 27.0 26.1 39.1





#7

Phenol-d6

Concen: 0.865 ng

RT: 6.451 min Scan# 74

Delta R.T. 0.012 min

Lab File: BF136974.D

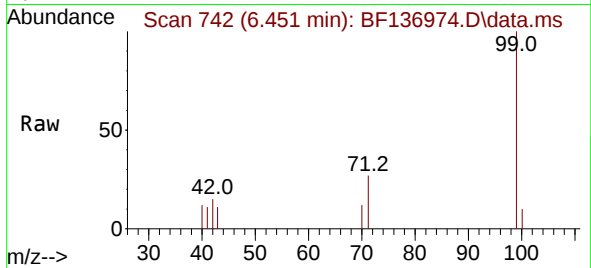
Acq: 05 Jan 2024 14:18

Instrument :

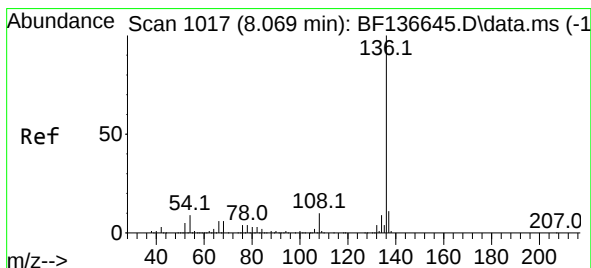
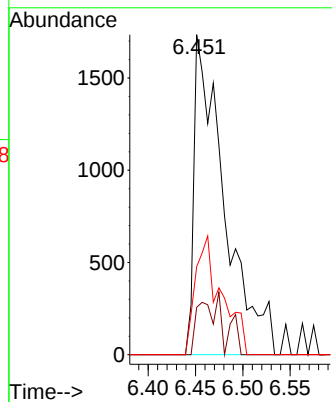
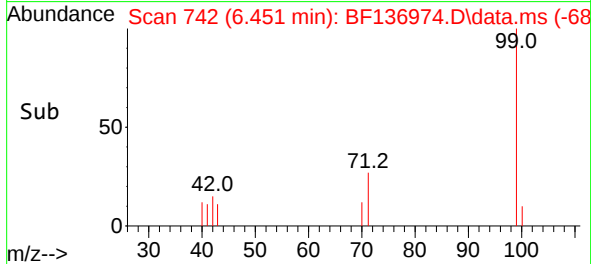
BNA\_F

ClientSampleId :

GHL-SS-18-0-2DL2



| Tgt Ion: | 99    | Resp: | 3857  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.8  | 16.1  | 24.1# |
| 71       | 27.5  | 27.4  | 41.2  |



#21

Naphthalene-d8

Concen: 20.000 ng

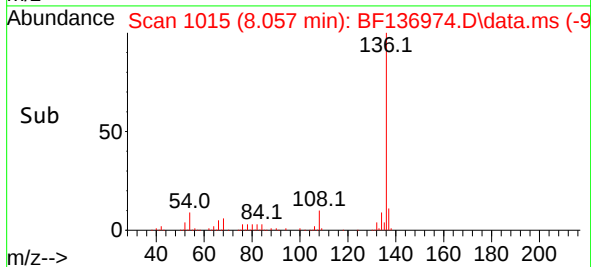
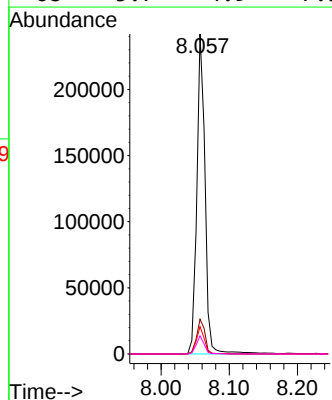
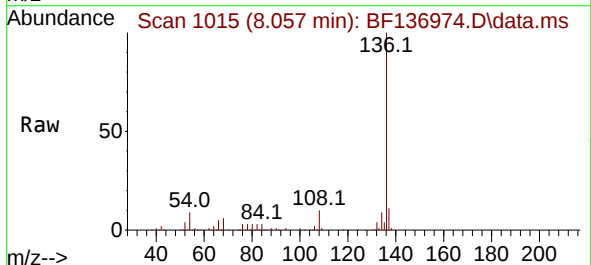
RT: 8.057 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

| Tgt Ion: | 136   | Resp: | 202113 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 9.0   | 13.4   |
| 54       | 8.6   | 7.2   | 10.8   |
| 68       | 5.7   | 4.9   | 7.3    |





#23

Nitrobenzene-d5

Concen: 0.702 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

Instrument :

BNA\_F

ClientSampleId :

GHL-SS-18-0-2DL2

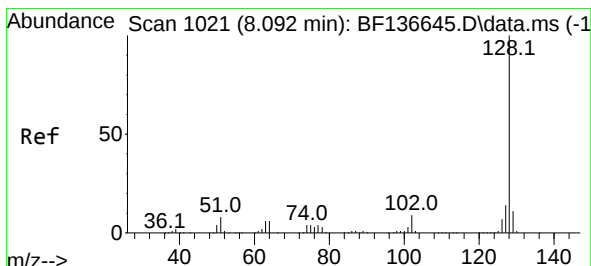
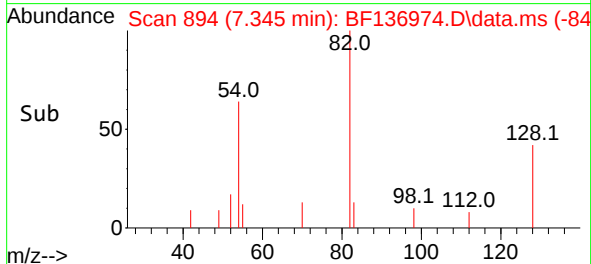
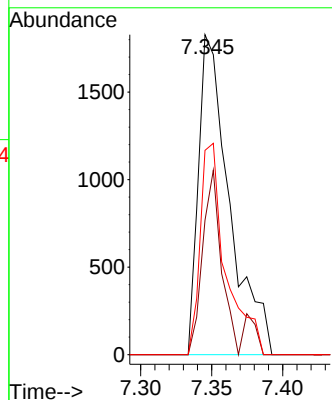
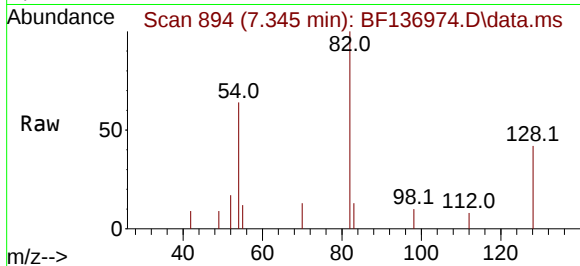
Tgt Ion: 82 Resp: 2771

Ion Ratio Lower Upper

82 100

128 42.0 35.3 52.9

54 63.8 44.5 66.7



#31

Naphthalene

Concen: 2.704 ng

RT: 8.081 min Scan# 1019

Delta R.T. -0.012 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

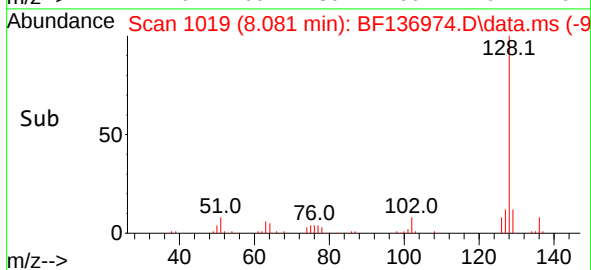
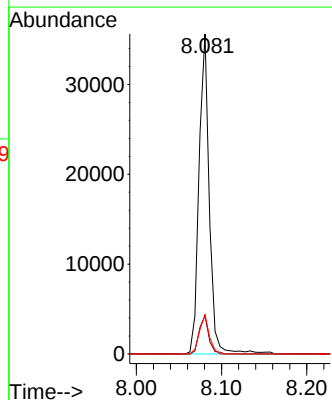
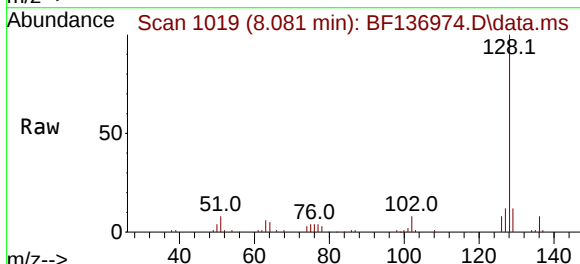
Tgt Ion: 128 Resp: 30019

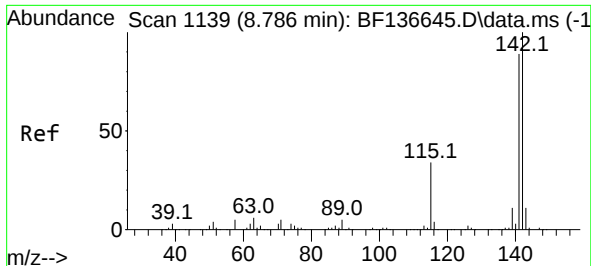
Ion Ratio Lower Upper

128 100

129 12.0 8.7 13.1

127 12.3 10.8 16.2





#37

2-Methylnaphthalene

Concen: 2.091 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

Instrument :

BNA\_F

ClientSampleId :

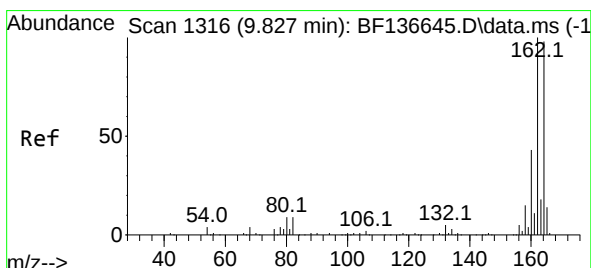
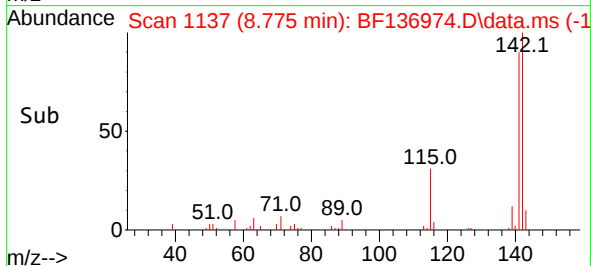
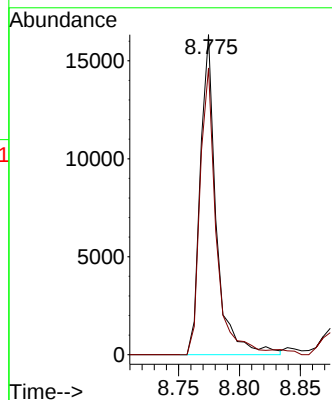
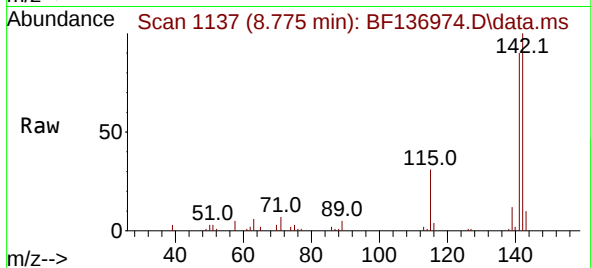
GHL-SS-18-0-2DL2

Tgt Ion:142 Resp: 14943

Ion Ratio Lower Upper

142 100

141 89.6 71.1 106.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1314

Delta R.T. -0.012 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

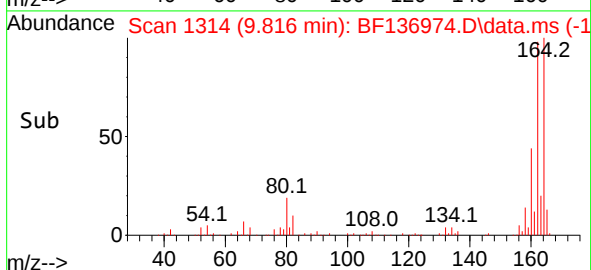
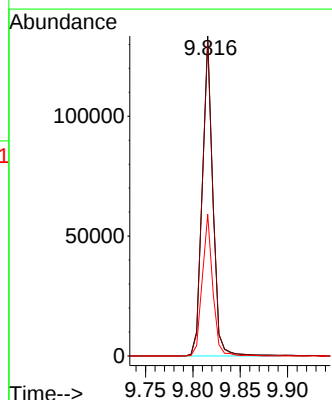
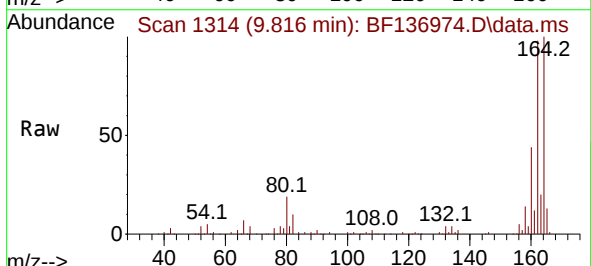
Tgt Ion:164 Resp: 103934

Ion Ratio Lower Upper

164 100

162 98.4 81.6 122.4

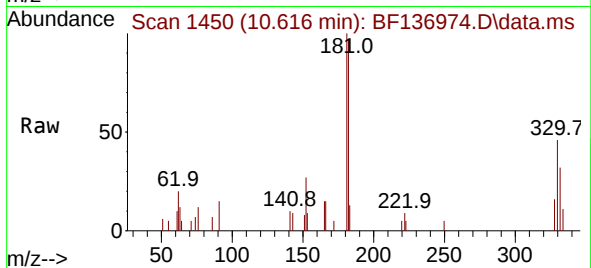
160 44.2 34.9 52.3



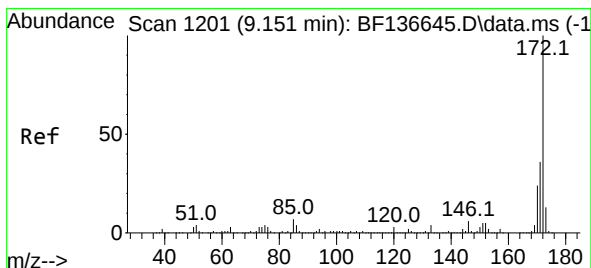
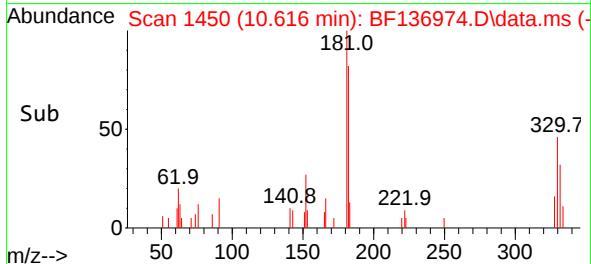
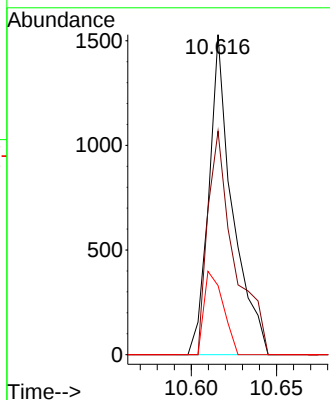


#42  
2,4,6-Tribromophenol  
Concen: 1.206 ng  
RT: 10.616 min Scan# 1451  
Delta R.T. -0.006 min  
Lab File: BF136974.D  
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Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

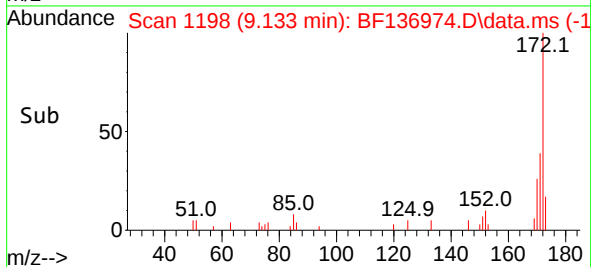
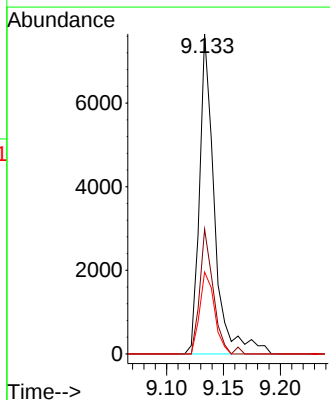
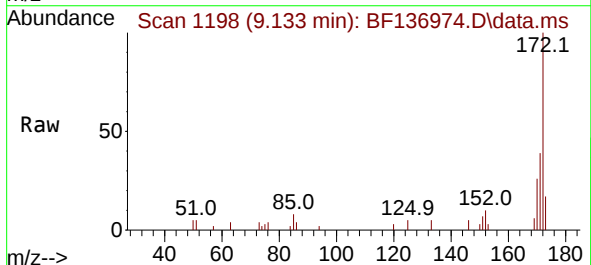


Tgt Ion: 330 Resp: 1476  
Ion Ratio Lower Upper  
330 100  
332 78.0 77.4 116.0  
141 21.0 23.4 35.2#



#45  
2-Fluorobiphenyl  
Concen: 0.909 ng  
RT: 9.133 min Scan# 1198  
Delta R.T. -0.018 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion: 172 Resp: 7027  
Ion Ratio Lower Upper  
172 100  
171 39.0 29.0 43.6  
170 25.6 19.0 28.4

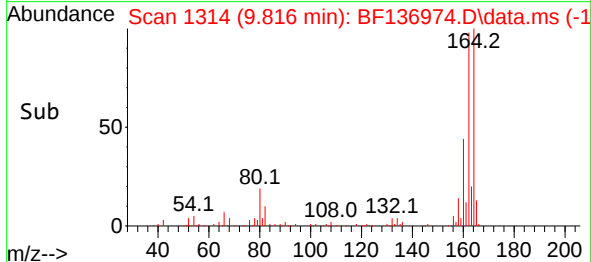
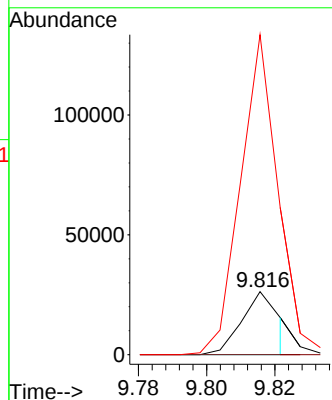
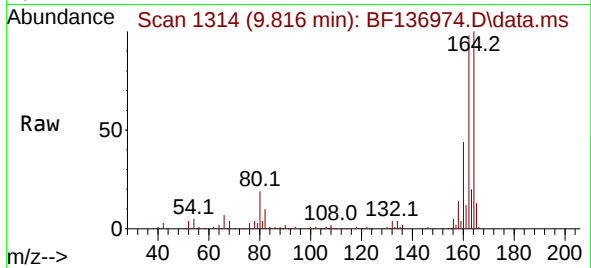




#50  
Dimethylphthalate  
Concen: 2.631 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.259 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

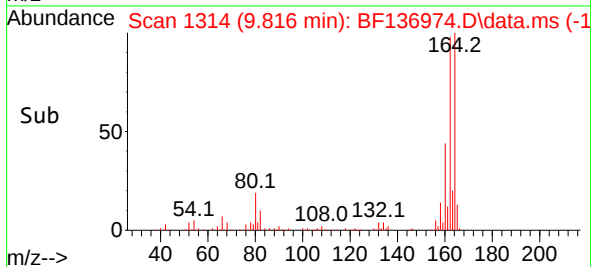
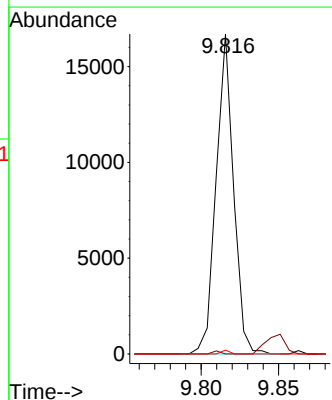
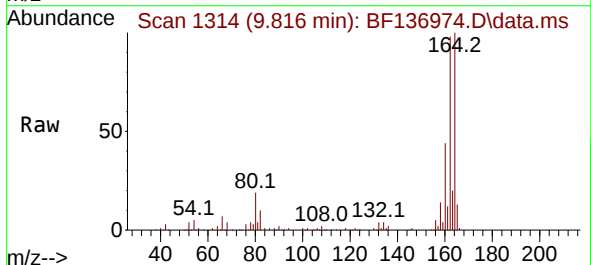
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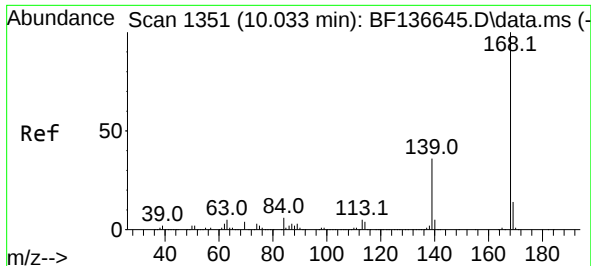
Tgt Ion:163 Resp: 19972  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 507.5 7.8 11.6#



#51  
2,6-Dinitrotoluene  
Concen: 7.571 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.194 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:165 Resp: 13044  
Ion Ratio Lower Upper  
165 100  
63 0.0 39.8 59.6#  
89 1.2 38.8 58.2#

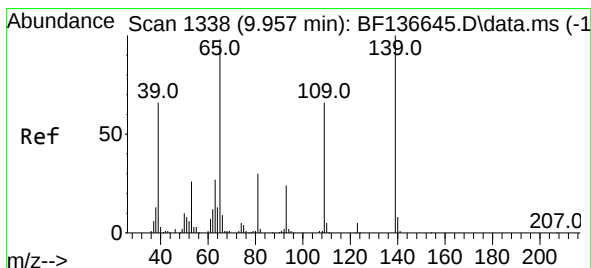
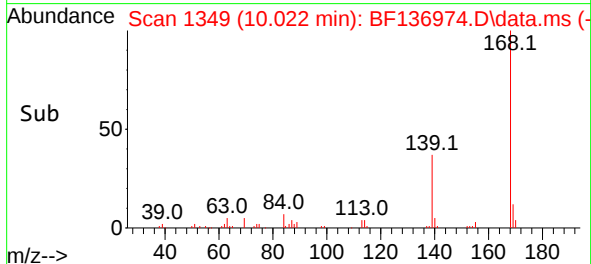
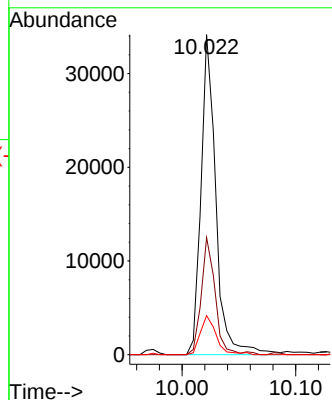
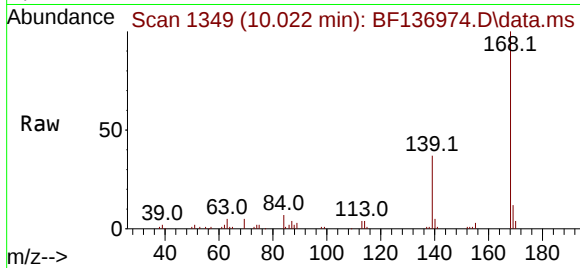




#55  
Dibenzenofuran  
Concen: 3.268 ng  
RT: 10.022 min Scan# 1349  
Delta R.T. -0.012 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

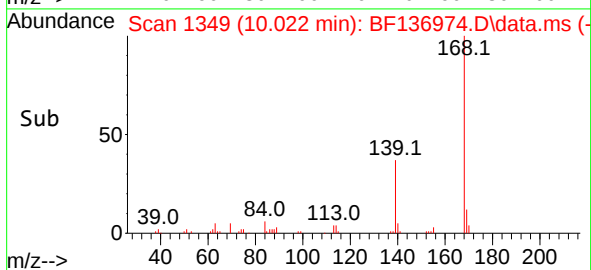
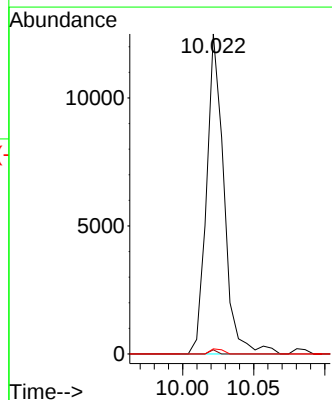
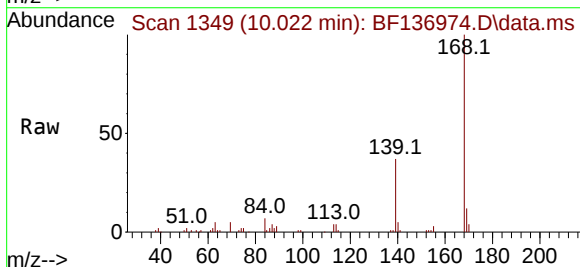
Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

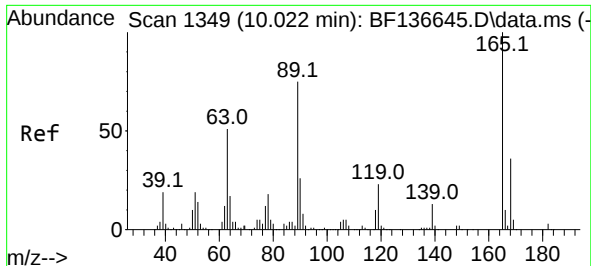
Tgt Ion:168 Resp: 31120  
Ion Ratio Lower Upper  
168 100  
139 36.6 29.3 43.9  
169 12.2 11.0 16.4



#56  
4-Nitrophenol  
Concen: 8.663 ng  
RT: 10.022 min Scan# 1349  
Delta R.T. 0.065 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

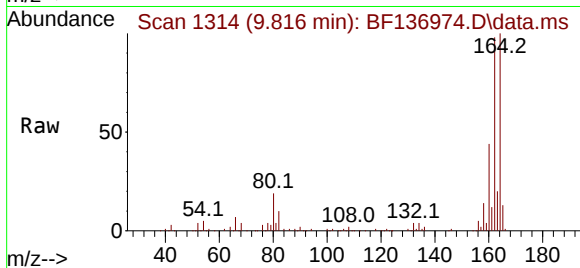
Tgt Ion:139 Resp: 10673  
Ion Ratio Lower Upper  
139 100  
109 1.3 45.8 85.8#  
65 1.6 77.8 117.8#



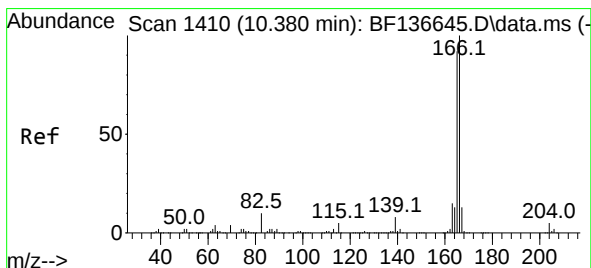
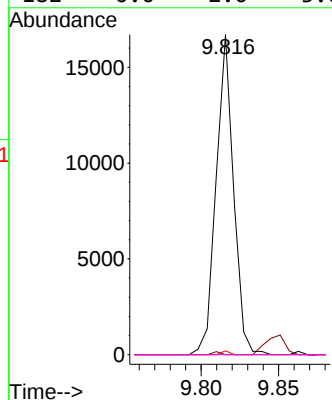
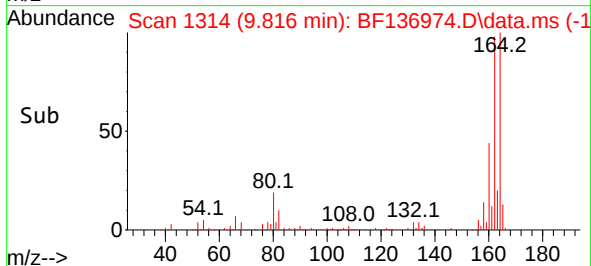


#57  
2,4-Dinitrotoluene  
Concen: 5.832 ng  
RT: 9.816 min Scan# 11  
Delta R.T. -0.206 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

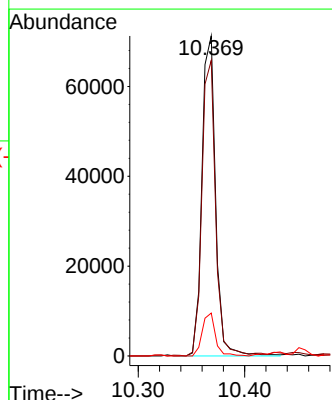
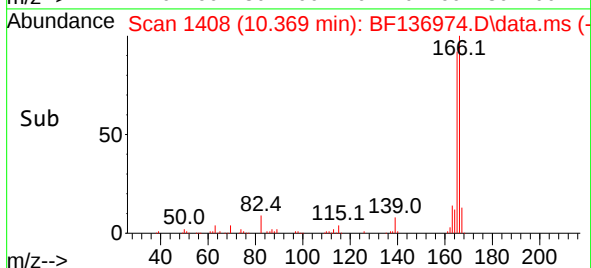
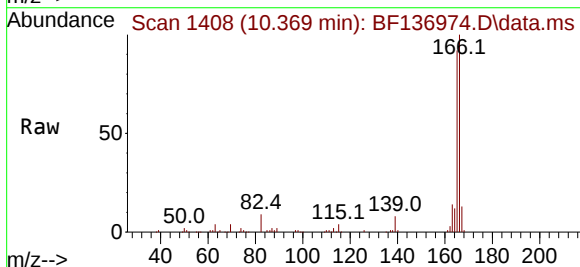


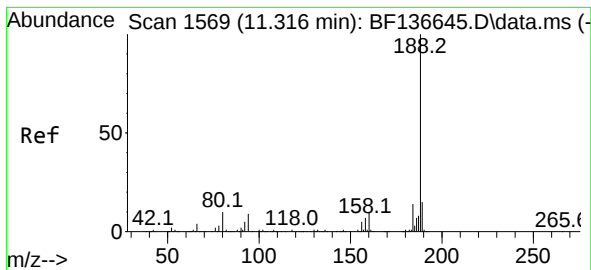
Tgt Ion:165 Resp: 13044  
Ion Ratio Lower Upper  
165 100  
63 0.0 41.0 61.6#  
89 1.2 59.9 89.9#  
182 0.0 2.0 3.0#



#58  
Fluorene  
Concen: 8.422 ng  
RT: 10.369 min Scan# 1408  
Delta R.T. -0.012 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:166 Resp: 63635  
Ion Ratio Lower Upper  
166 100  
165 92.3 73.7 110.5  
167 13.4 10.4 15.6

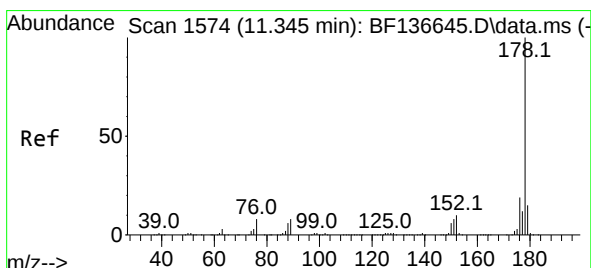
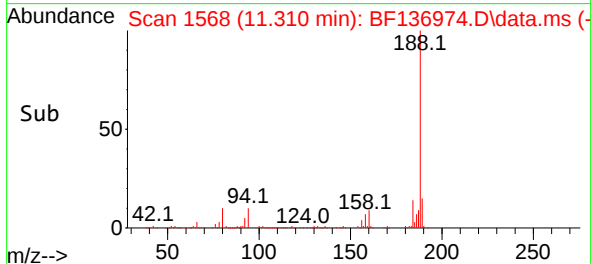
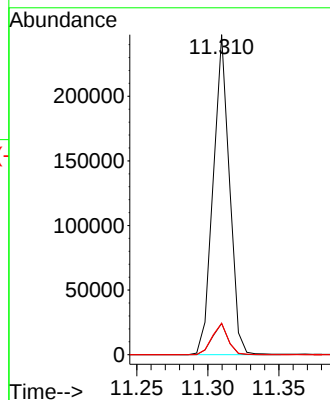
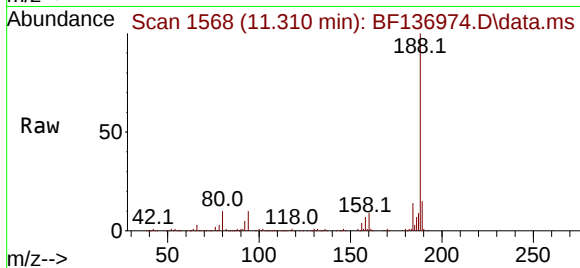




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

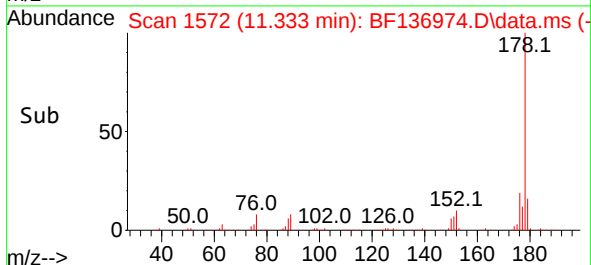
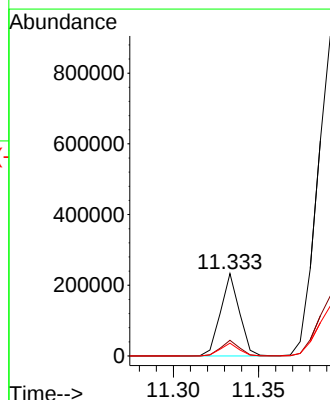
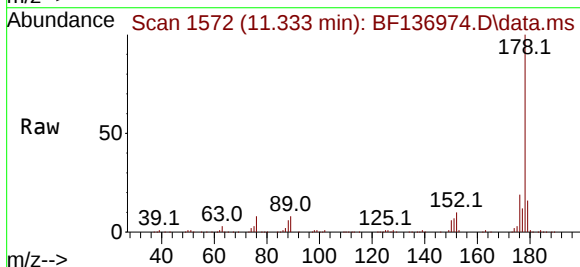
Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

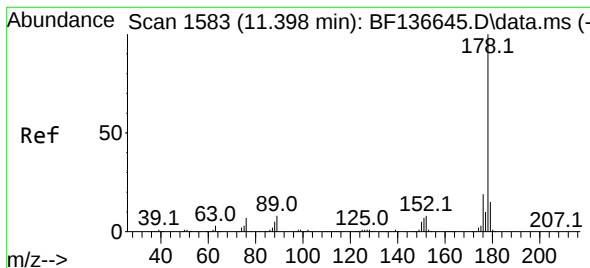
Tgt Ion:188 Resp: 197017  
Ion Ratio Lower Upper  
188 100  
94 9.8 7.5 11.3  
80 9.8 8.1 12.1



#71  
Phenanthrene  
Concen: 17.800 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. -0.012 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:178 Resp: 179937  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.6 11.9 17.9





#72

Anthracene

Concen: 76.215 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

Instrument :

BNA\_F

ClientSampleId :

GHL-SS-18-0-2DL2

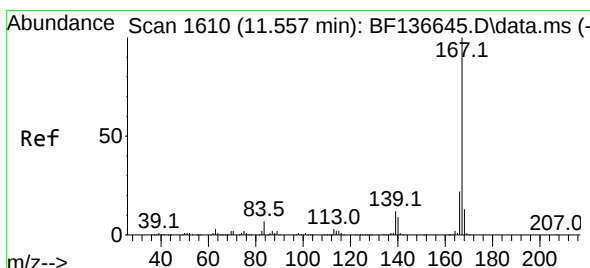
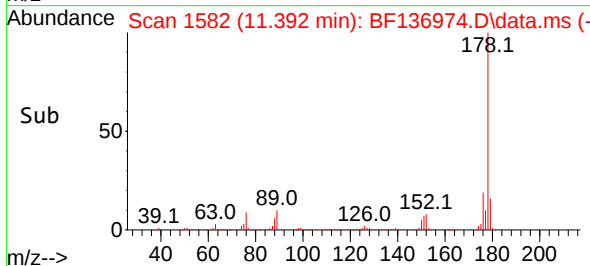
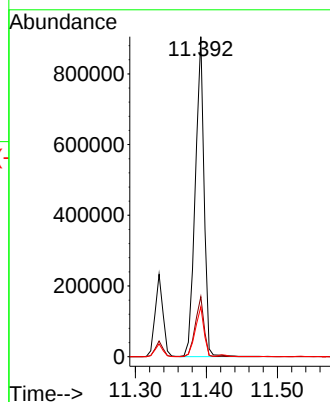
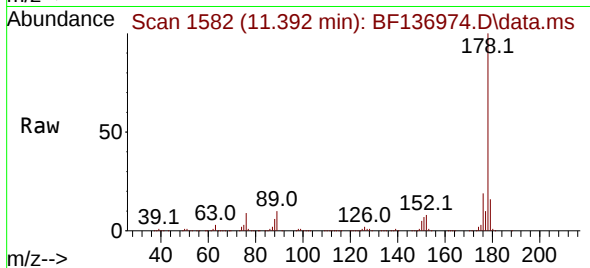
Tgt Ion:178 Resp: 780268

Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

179 15.6 11.8 17.6



#73

Carbazole

Concen: 31.346 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

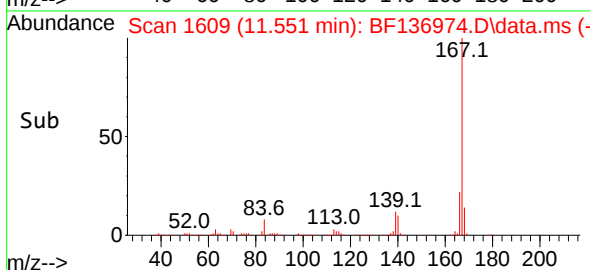
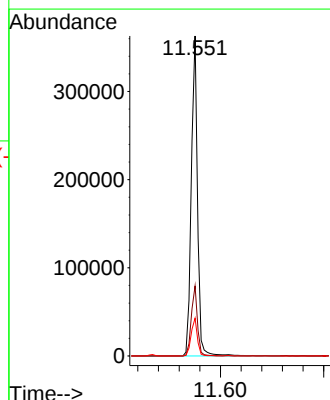
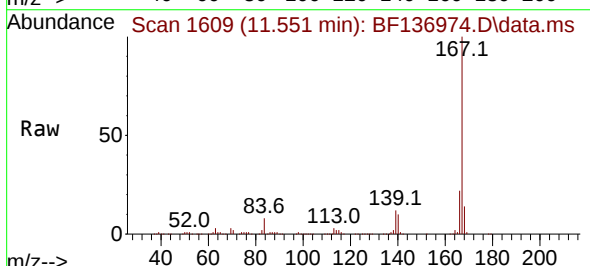
Tgt Ion:167 Resp: 302564

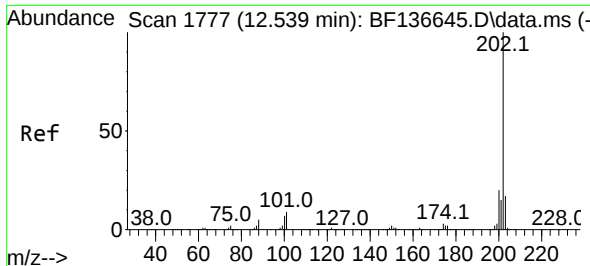
Ion Ratio Lower Upper

167 100

166 21.9 17.3 25.9

139 11.8 9.8 14.6

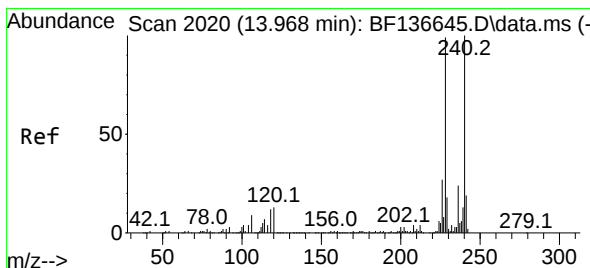
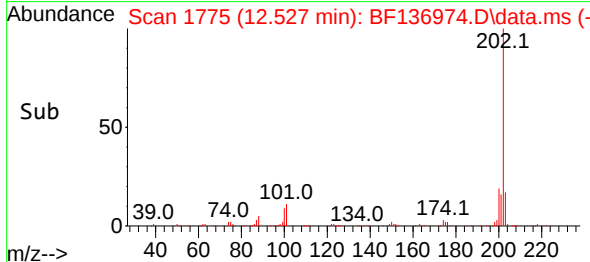
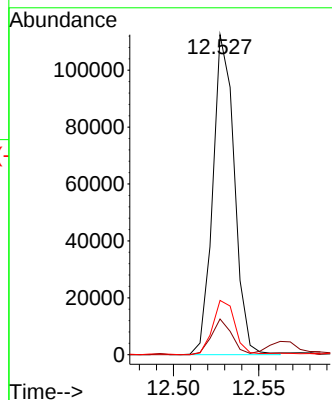
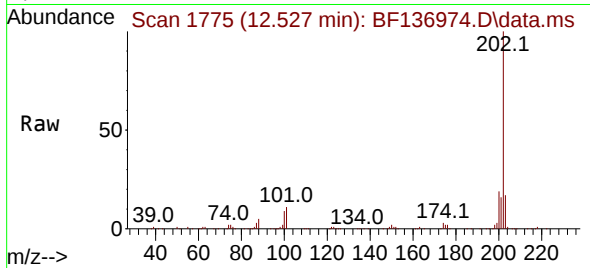




#75  
Fluoranthene  
Concen: 9.149 ng  
RT: 12.527 min Scan# 1775  
Delta R.T. -0.012 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

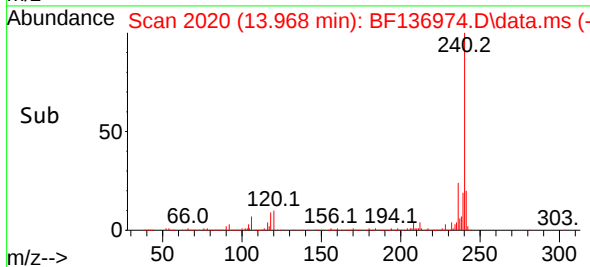
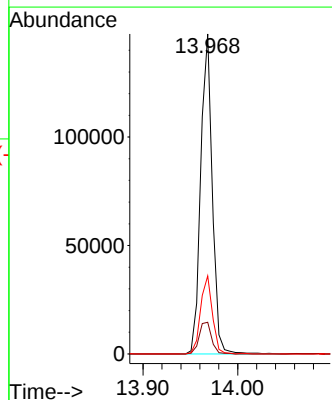
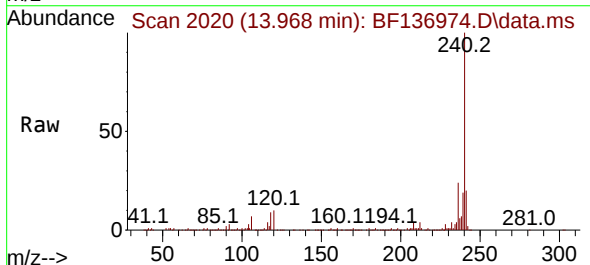
Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

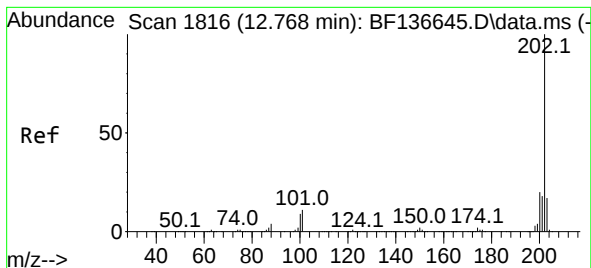
Tgt Ion:202 Resp: 98925  
Ion Ratio Lower Upper  
202 100  
101 11.2 0.0 29.3  
203 16.9 0.0 37.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.968 min Scan# 2020  
Delta R.T. 0.000 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:240 Resp: 126142  
Ion Ratio Lower Upper  
240 100  
120 9.9 10.3 15.5#  
236 24.4 19.4 29.2





#78

Pyrene

Concen: 5.498 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

Instrument :

BNA\_F

ClientSampleId :

GHL-SS-18-0-2DL2

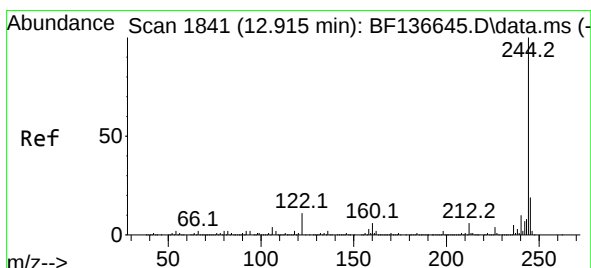
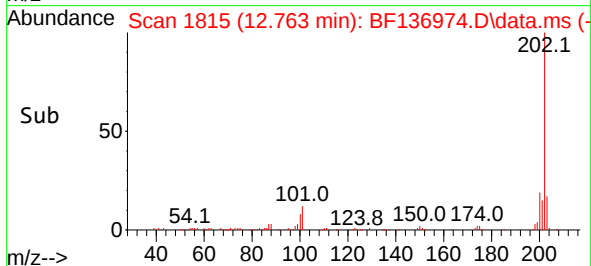
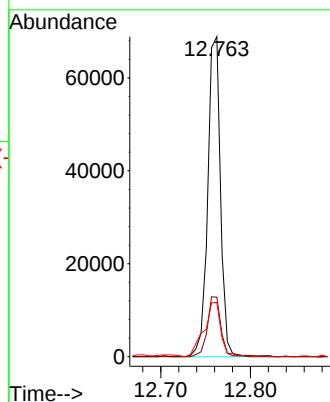
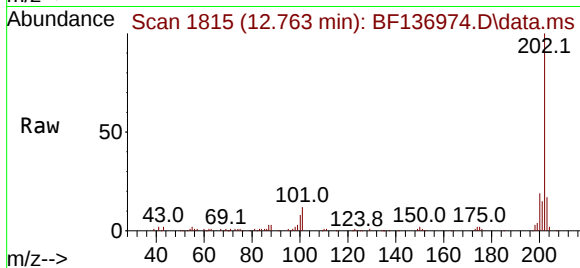
Tgt Ion:202 Resp: 68081

Ion Ratio Lower Upper

202 100

200 18.6 15.9 23.9

203 17.0 13.8 20.6



#79

Terphenyl-d14

Concen: 0.896 ng

RT: 12.904 min Scan# 1839

Delta R.T. -0.012 min

Lab File: BF136974.D

Acq: 05 Jan 2024 14:18

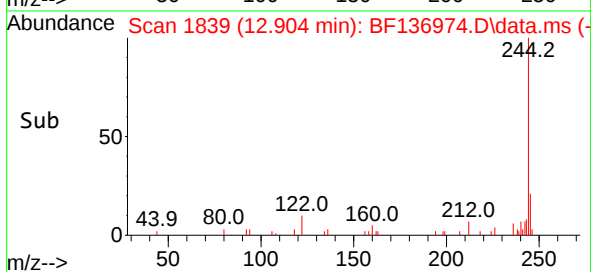
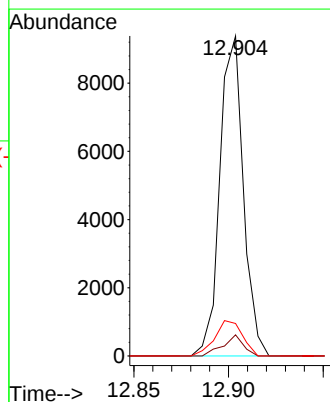
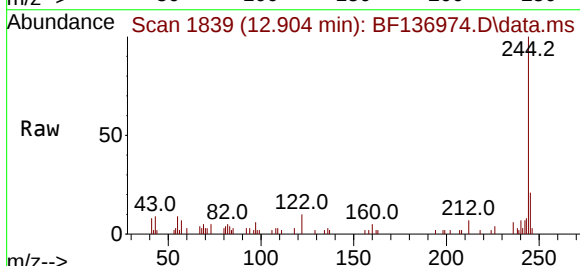
Tgt Ion:244 Resp: 8087

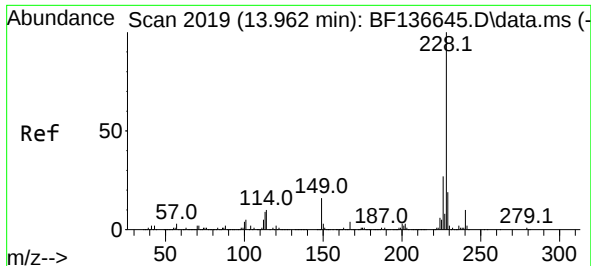
Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

122 10.1 9.0 13.4

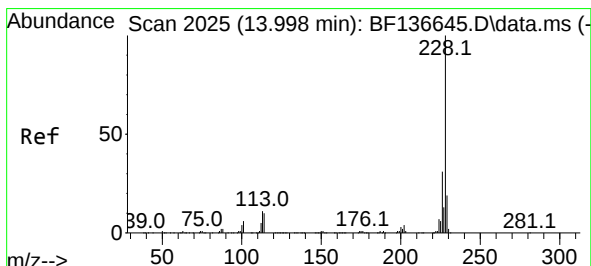
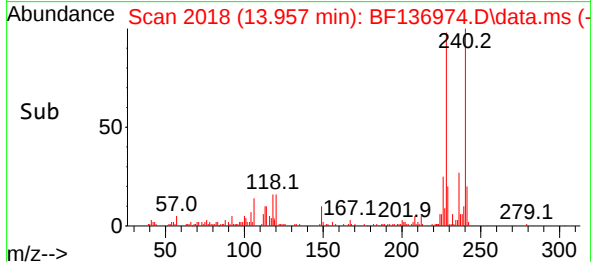
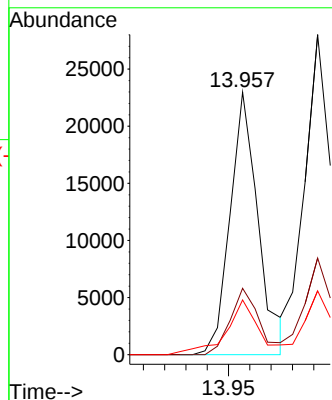
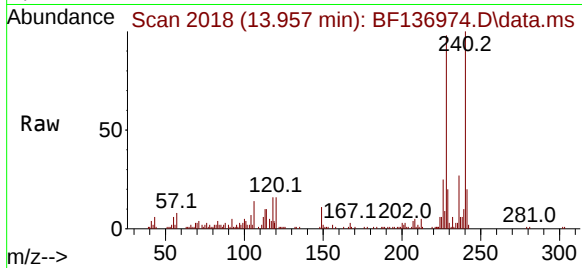




#81  
Benzo(a)anthracene  
Concen: 2.408 ng  
RT: 13.957 min Scan# 2019  
Delta R.T. -0.006 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

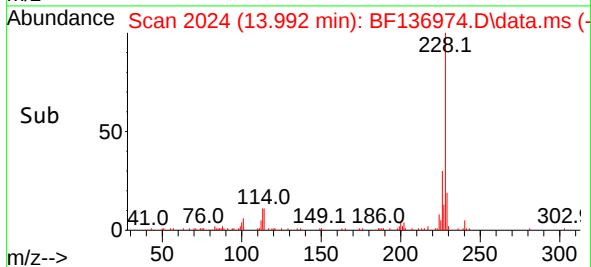
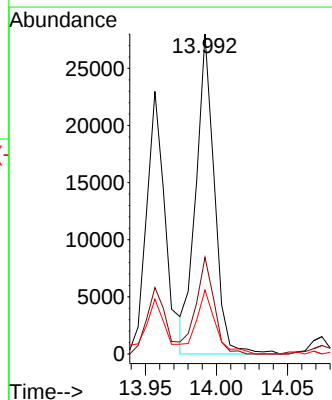
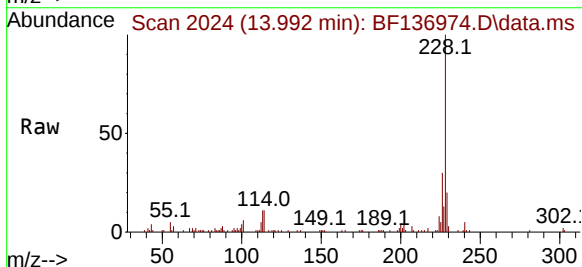
Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

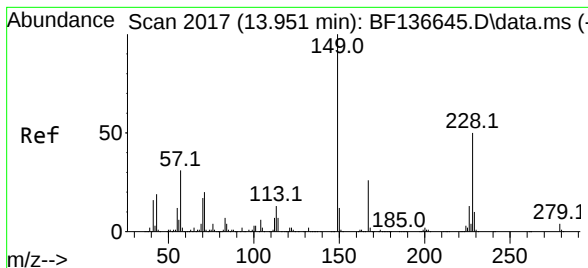
Tgt Ion:228 Resp: 21091  
Ion Ratio Lower Upper  
228 100  
226 25.3 21.4 32.0  
229 20.9 14.9 22.3



#83  
Chrysene  
Concen: 2.960 ng  
RT: 13.992 min Scan# 2024  
Delta R.T. -0.006 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:228 Resp: 25358  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.7 37.1  
229 19.9 15.4 23.0

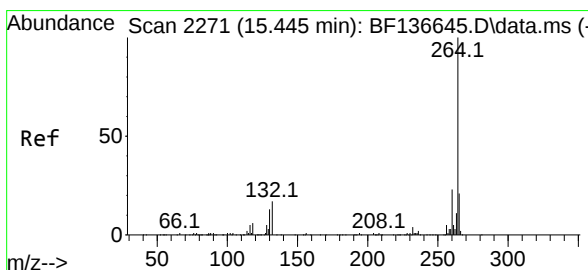
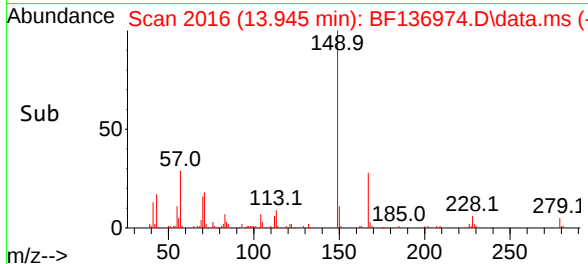
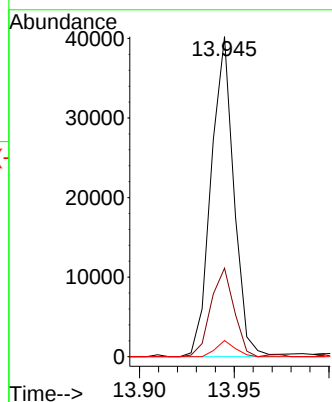
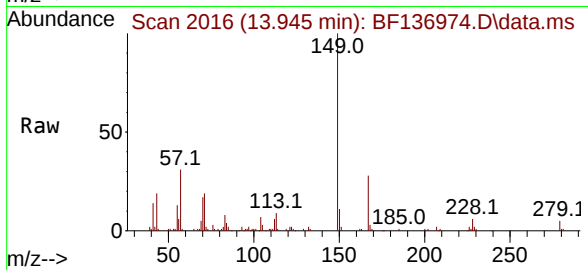




#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.938 ng  
 RT: 13.945 min Scan# 2016  
 Delta R.T. -0.006 min  
 Lab File: BF136974.D  
 Acq: 05 Jan 2024 14:18

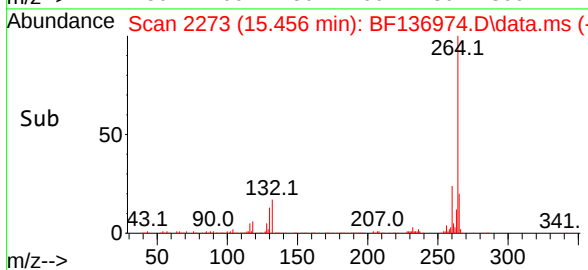
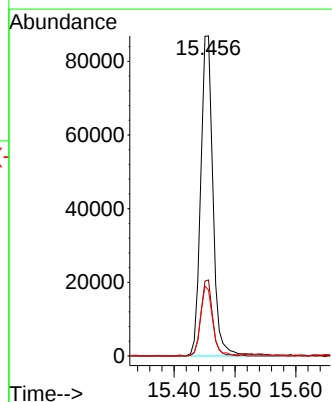
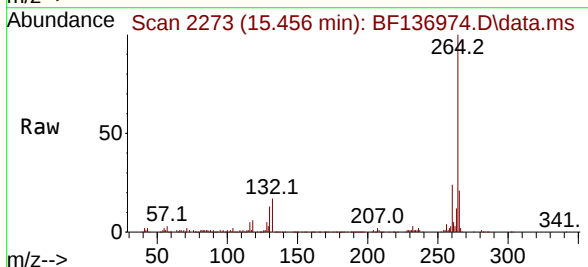
Instrument :  
 BNA\_F  
 ClientSampleId :  
 GHL-SS-18-0-2DL2

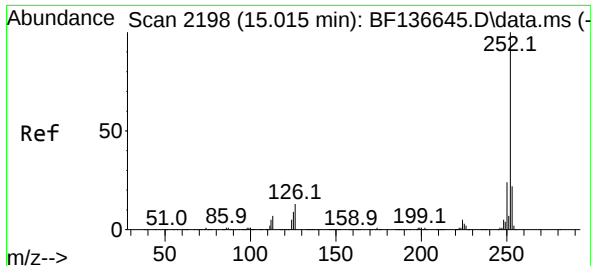
Tgt Ion:149 Resp: 33665  
 Ion Ratio Lower Upper  
 149 100  
 167 27.7 20.9 31.3  
 279 5.1 2.9 4.3#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.456 min Scan# 2273  
 Delta R.T. 0.012 min  
 Lab File: BF136974.D  
 Acq: 05 Jan 2024 14:18

Tgt Ion:264 Resp: 121682  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 18.3 27.5  
 265 20.6 17.0 25.6

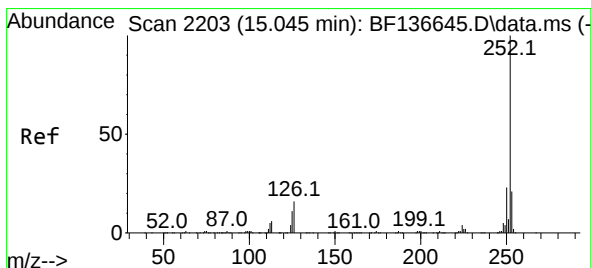
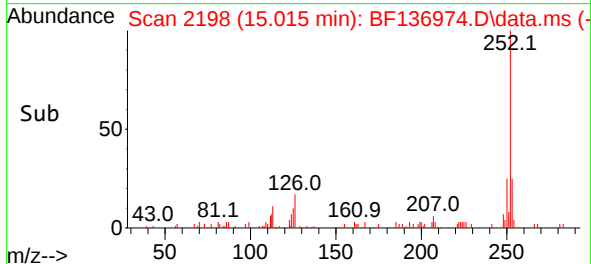
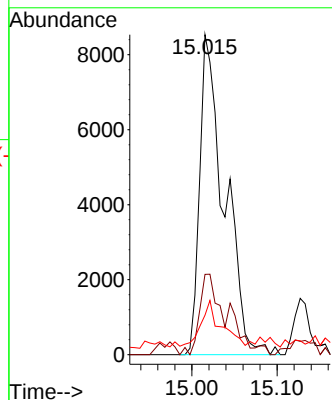
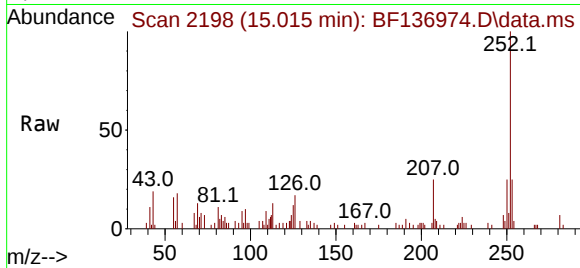




#88  
Benzo(b)fluoranthene  
Concen: 2.116 ng  
RT: 15.015 min Scan# 2198  
Delta R.T. 0.000 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Instrument :  
BNA\_F  
ClientSampleId :  
GHL-SS-18-0-2DL2

Tgt Ion:252 Resp: 17194  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.4 26.0  
125 12.3 7.4 11.2#



#89  
Benzo(k)fluoranthene  
Concen: 2.239 ng  
RT: 15.015 min Scan# 2198  
Delta R.T. -0.029 min  
Lab File: BF136974.D  
Acq: 05 Jan 2024 14:18

Tgt Ion:252 Resp: 17194  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.0 25.6  
125 12.3 8.2 12.4

