

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101624\  
 Data File : BF139830.D  
 Acq On : 16 Oct 2024 15:40  
 Operator : RC/JU  
 Sample : P4406-01 5X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-02-101524

Quant Time: Oct 16 16:04:49 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 15 16:41:54 2024  
 Response via : Initial Calibration

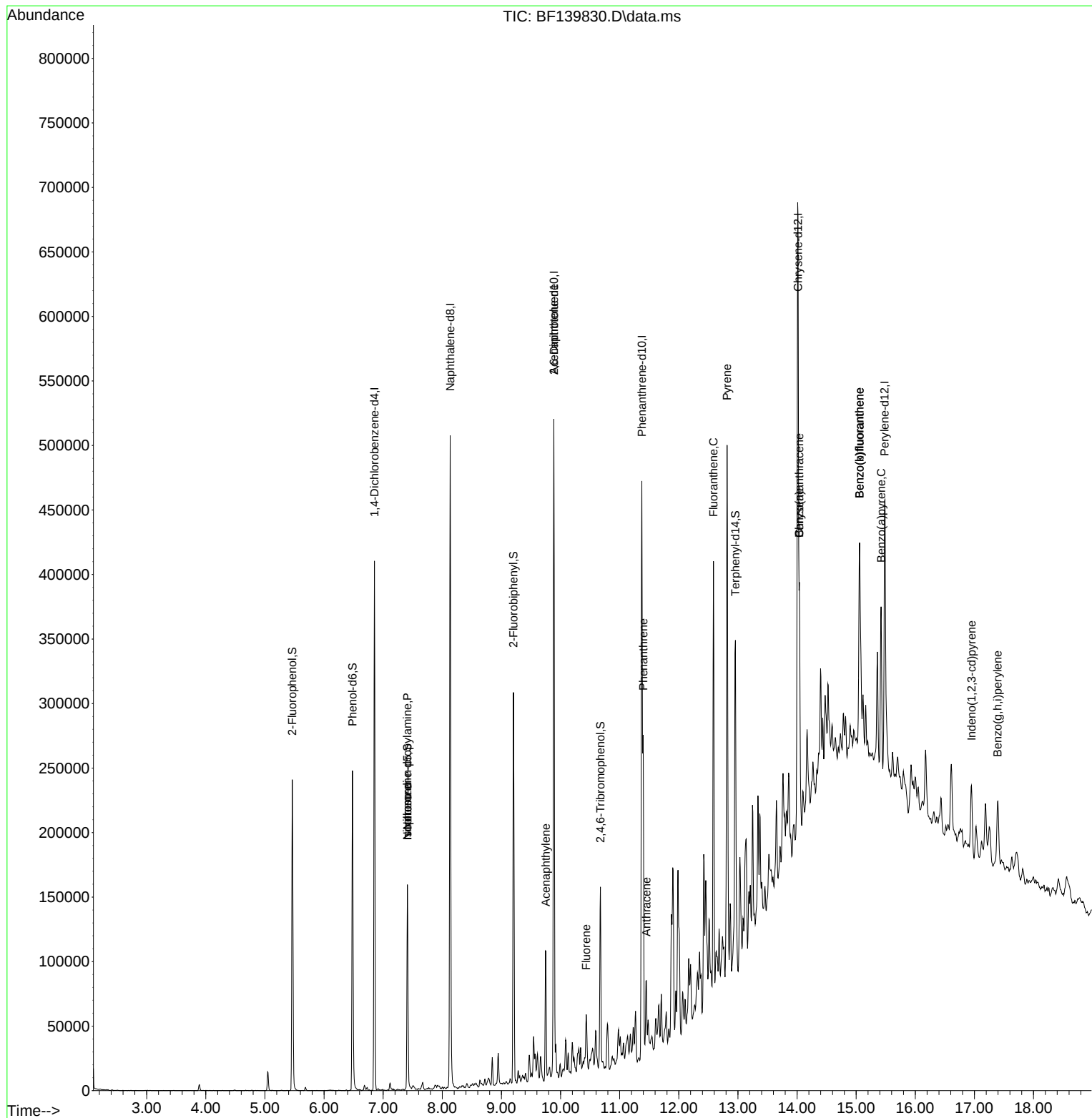
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.851  | 152  | 81929    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.134  | 136  | 297982   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.886  | 164  | 144100   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.375 | 188  | 230353   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.016 | 240  | 167078   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.480 | 264  | 120234   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.463  | 112  | 85529    | 17.614 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.481  | 99   | 112038   | 17.350 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.410  | 82   | 67128    | 11.595 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.675 | 330  | 19157    | 15.763 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.204  | 172  | 128928   | 13.382 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.957 | 244  | 118617   | 5.929  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.410  | 70   | 8739     | 2.324  | ng    | # 76     |
| 25) Isophorone                | 7.410  | 82   | 67127    | 6.794  | ng    | # 67     |
| 49) Acenaphthylene            | 9.751  | 152  | 56569    | 4.627  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.886  | 165  | 20296    | 10.085 | ng    | # 22     |
| 58) Fluorene                  | 10.433 | 166  | 20501    | 2.268  | ng    | # 96     |
| 71) Phenanthrene              | 11.398 | 178  | 125168   | 11.376 | ng    | 99       |
| 72) Anthracene                | 11.451 | 178  | 34368    | 3.179  | ng    | 98       |
| 75) Fluoranthene              | 12.586 | 202  | 176067   | 16.959 | ng    | 99       |
| 78) Pyrene                    | 12.816 | 202  | 229803   | 13.992 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 100891   | 9.091  | ng    | 93       |
| 83) Chrysene                  | 14.039 | 228  | 100891   | 9.974  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.951 | 276  | 37968    | 4.716  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.057 | 252  | 125835   | 18.246 | ng    | # 93     |
| 89) Benzo(k)fluoranthene      | 15.057 | 252  | 125835   | 20.560 | ng    | # 94     |
| 90) Benzo(a)pyrene            | 15.421 | 252  | 67732    | 11.244 | ng    | # 94     |
| 92) Benzo(g,h,i)perylene      | 17.392 | 276  | 42433    | 6.127  | ng    | 94       |
| -----                         |        |      |          |        |       |          |

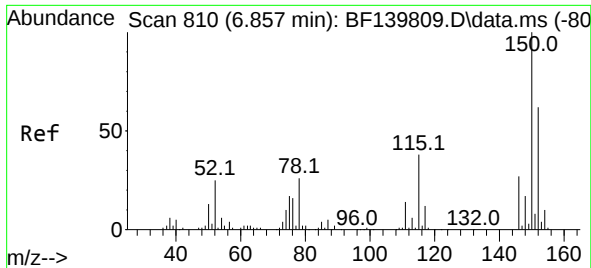
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 15 16:41:54 2024  
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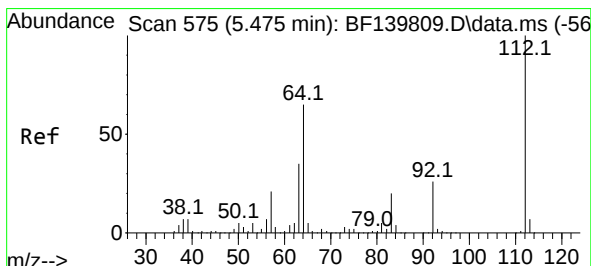
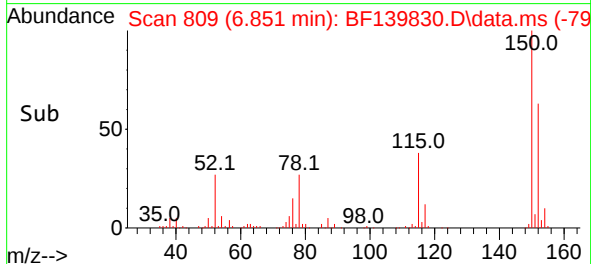
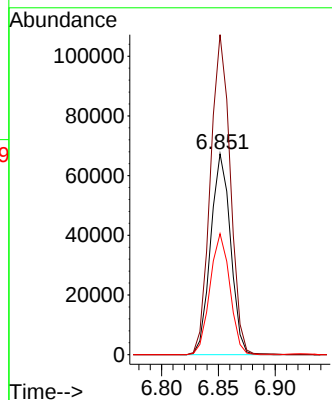
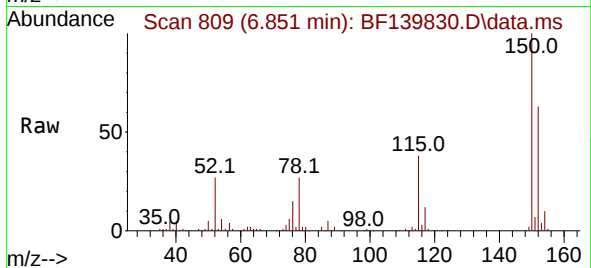




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.851 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

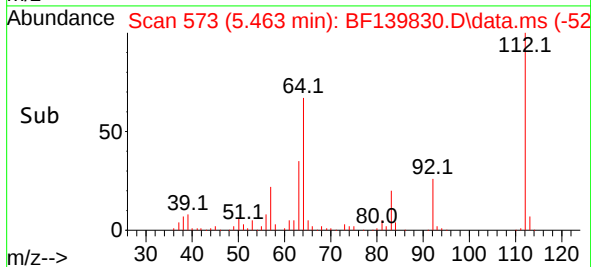
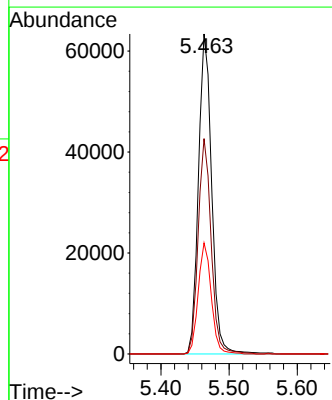
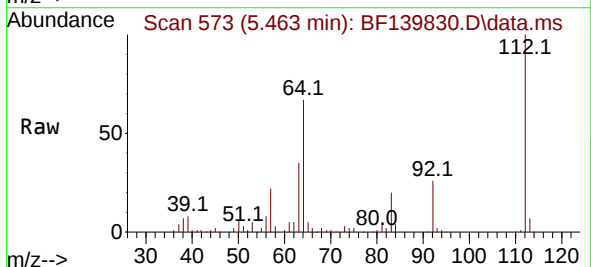
Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-101524

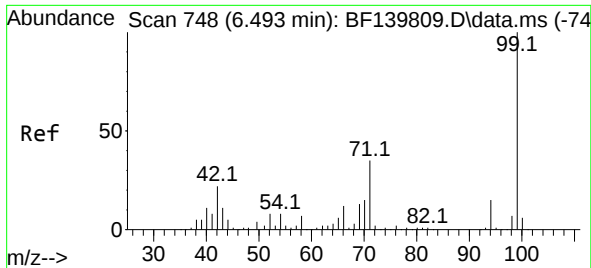
Tgt Ion:152 Resp: 81929  
Ion Ratio Lower Upper  
152 100  
150 159.4 128.2 192.2  
115 60.3 48.1 72.1



#5  
2-Fluorophenol  
Concen: 17.614 ng  
RT: 5.463 min Scan# 573  
Delta R.T. -0.012 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion:112 Resp: 85529  
Ion Ratio Lower Upper  
112 100  
64 67.3 52.1 78.1  
63 34.7 27.6 41.4





#7

Phenol-d6

Concen: 17.350 ng

RT: 6.481 min Scan# 74

Delta R.T. -0.012 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Instrument :

BNA\_F

ClientSampleId :

OK-02-101524

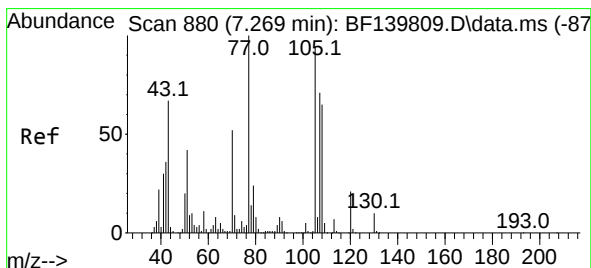
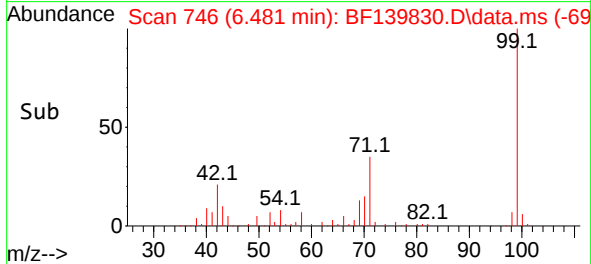
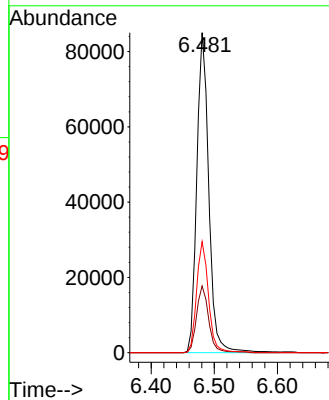
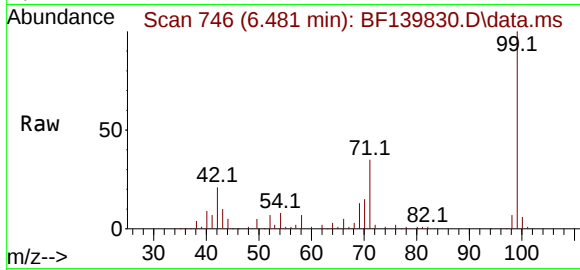
Tgt Ion: 99 Resp: 112038

Ion Ratio Lower Upper

99 100

42 20.9 17.3 25.9

71 34.7 27.8 41.6



#19

n-Nitroso-di-n-propylamine

Concen: 2.324 ng

RT: 7.410 min Scan# 904

Delta R.T. 0.141 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Tgt Ion: 70 Resp: 8739

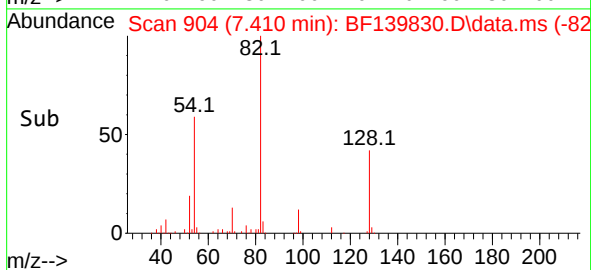
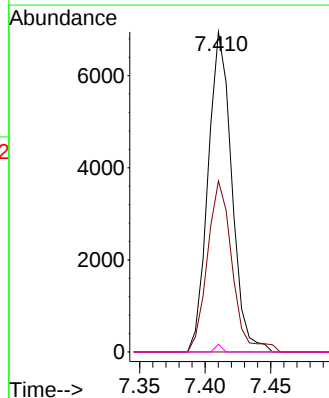
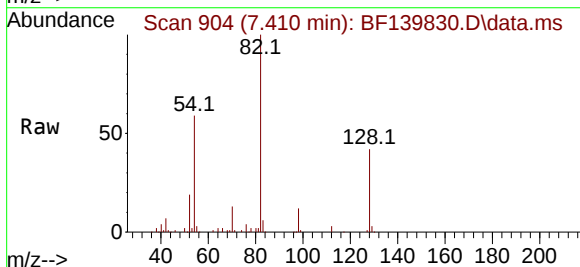
Ion Ratio Lower Upper

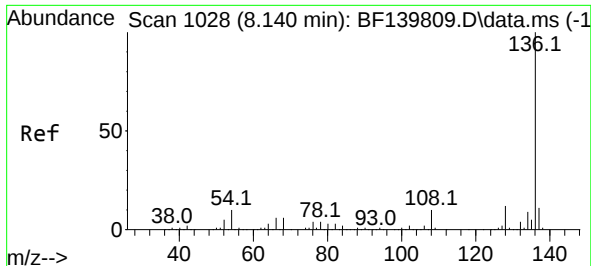
70 100

42 53.5 55.8 83.6#

101 0.0 7.4 11.0#

130 2.4 16.0 24.0#





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.134 min Scan# 1028  
Delta R.T. -0.006 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

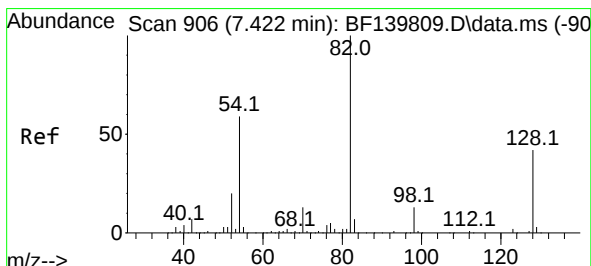
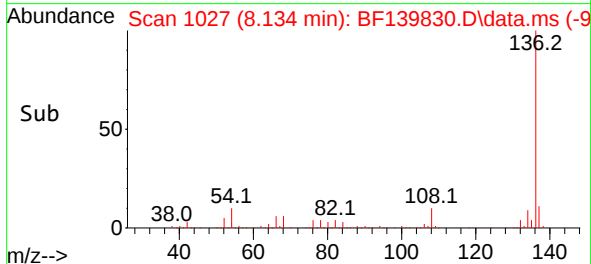
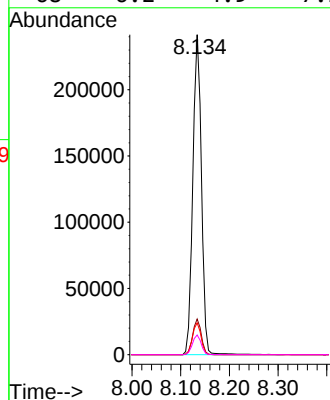
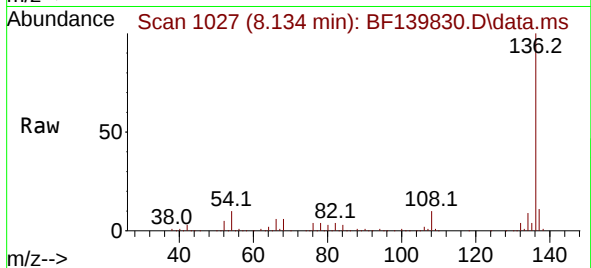
Instrument :

BNA\_F

ClientSampleId :

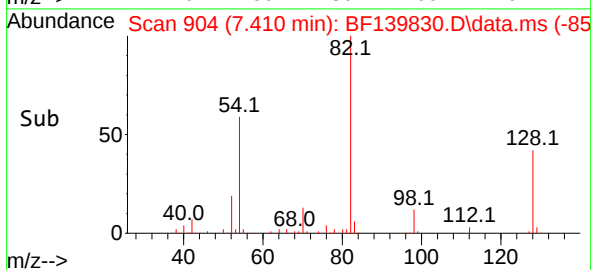
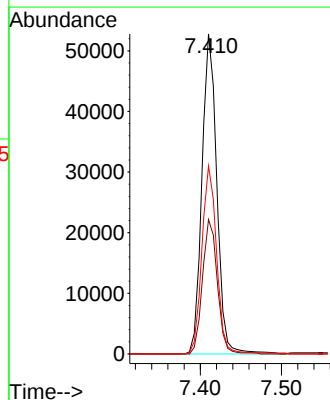
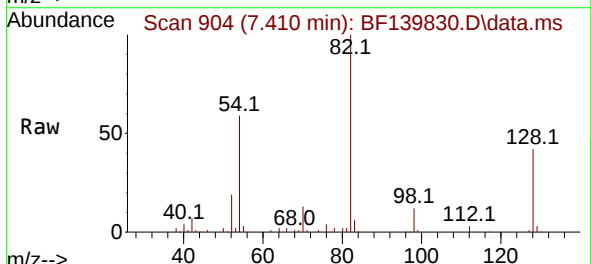
OK-02-101524

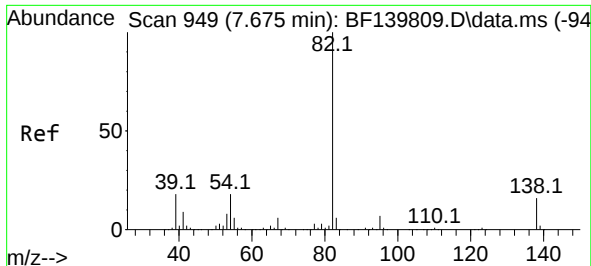
Tgt Ion:136 Resp: 297982  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.5 12.7  
54 9.9 7.7 11.5  
68 6.2 4.9 7.3



#23  
Nitrobenzene-d5  
Concen: 11.595 ng  
RT: 7.410 min Scan# 904  
Delta R.T. -0.012 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion: 82 Resp: 67128  
Ion Ratio Lower Upper  
82 100  
128 42.0 33.9 50.9  
54 58.7 46.9 70.3

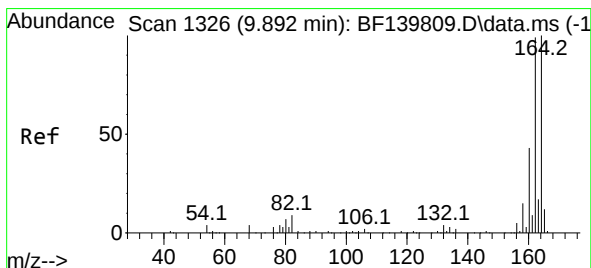
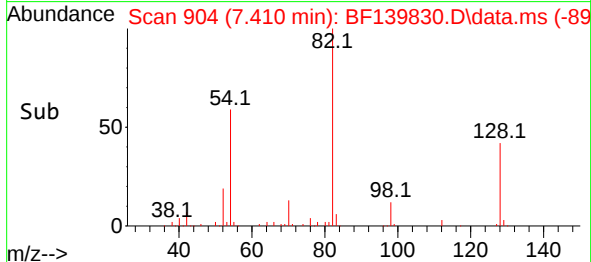
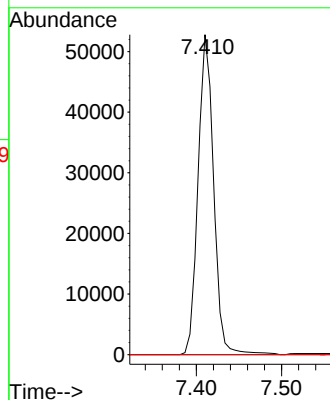
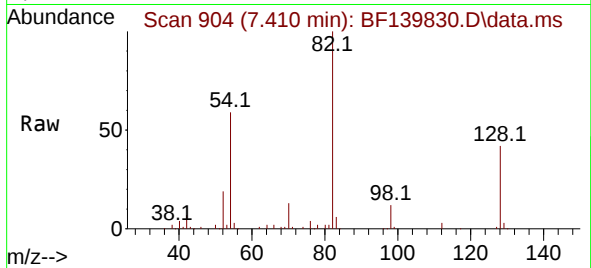




#25  
Isophorone  
Concen: 6.794 ng  
RT: 7.410 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

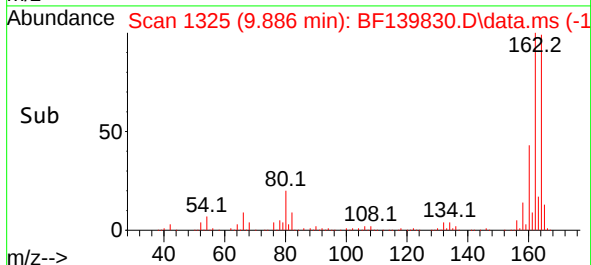
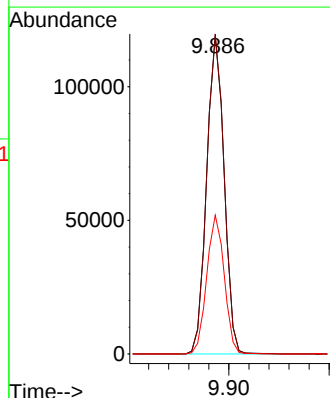
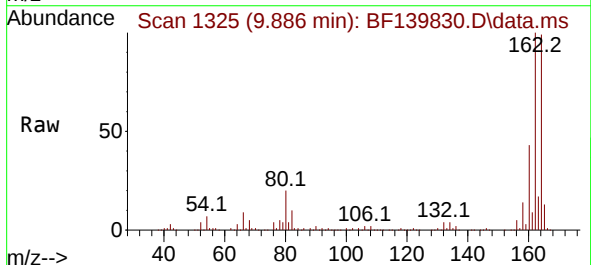
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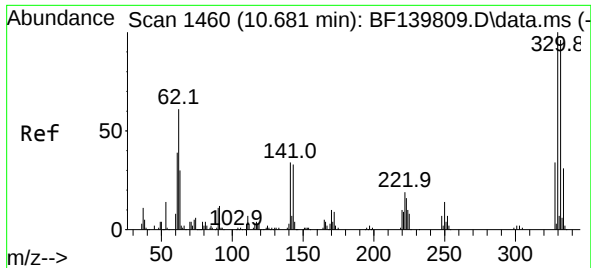
Tgt Ion: 82 Resp: 67127  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.9 8.9#  
138 0.0 13.2 19.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.886 min Scan# 1325  
Delta R.T. -0.006 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion:164 Resp: 144100  
Ion Ratio Lower Upper  
164 100  
162 100.6 79.1 118.7  
160 43.6 34.4 51.6

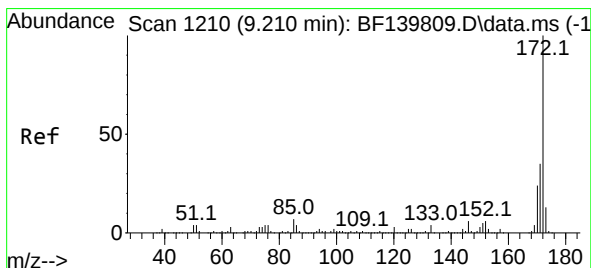
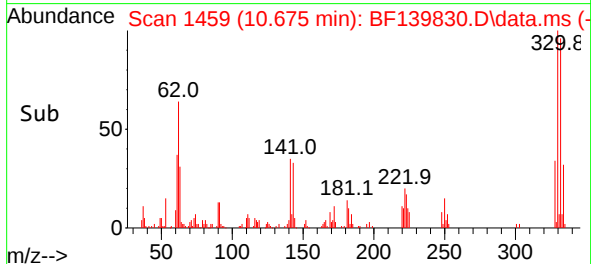
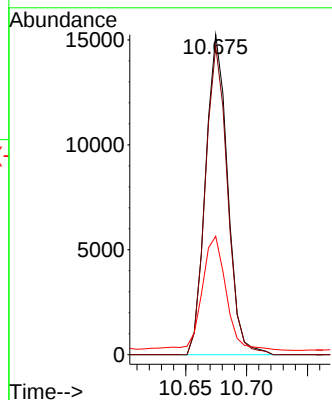
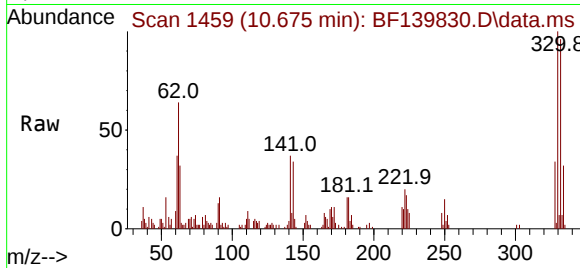




#42  
2,4,6-Tribromophenol  
Concen: 15.763 ng  
RT: 10.675 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

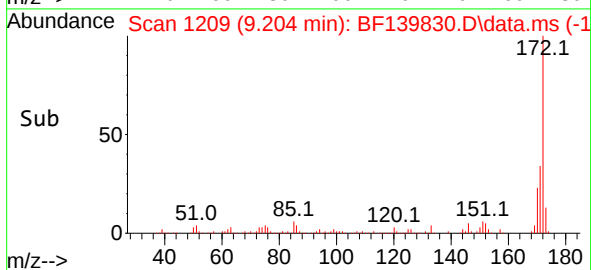
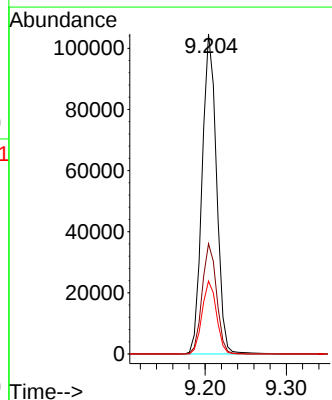
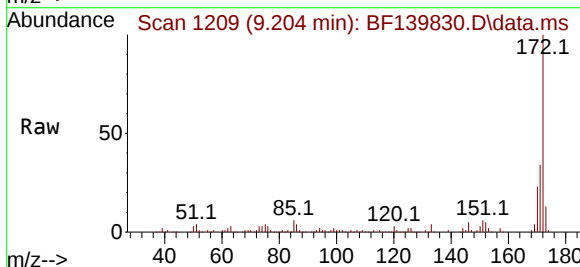
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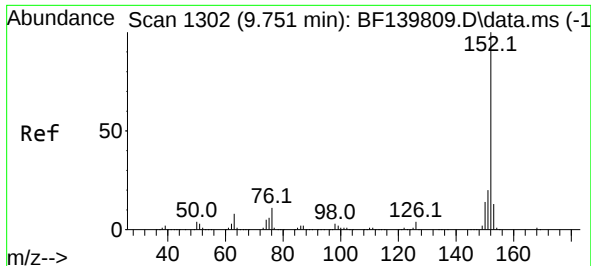
Tgt Ion:330 Resp: 19157  
Ion Ratio Lower Upper  
330 100  
332 96.5 76.6 114.8  
141 39.7 27.8 41.6



#45  
2-Fluorobiphenyl  
Concen: 13.382 ng  
RT: 9.204 min Scan# 1209  
Delta R.T. -0.006 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion:172 Resp: 128928  
Ion Ratio Lower Upper  
172 100  
171 34.4 28.2 42.2  
170 22.8 18.9 28.3

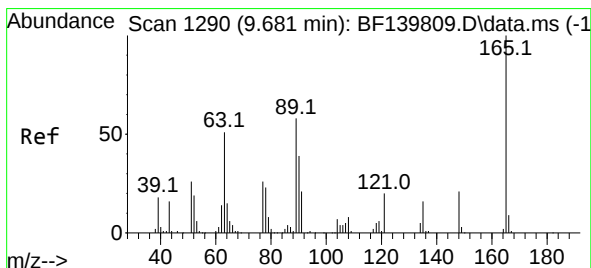
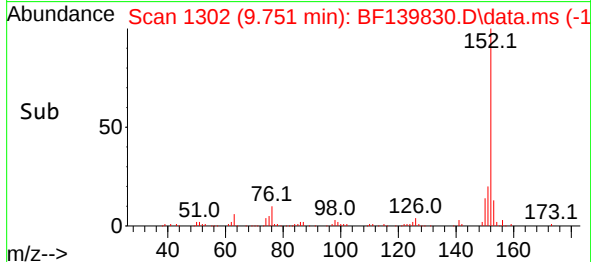
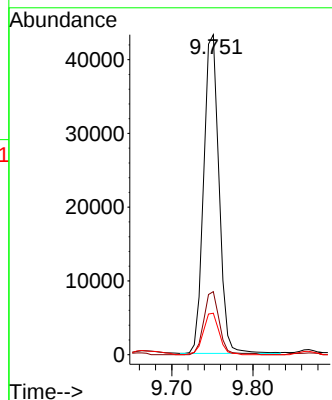
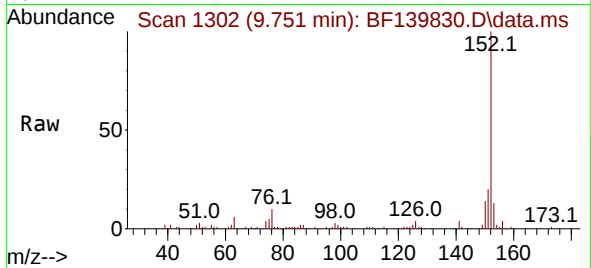




#49  
Acenaphthylene  
Concen: 4.627 ng  
RT: 9.751 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

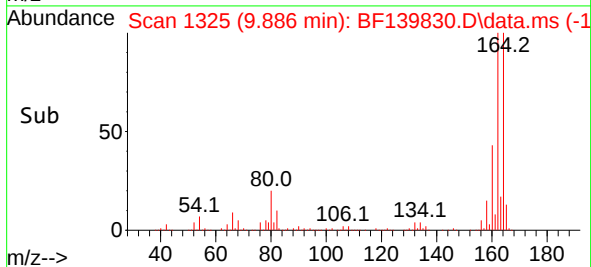
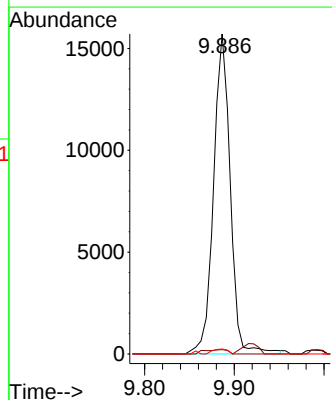
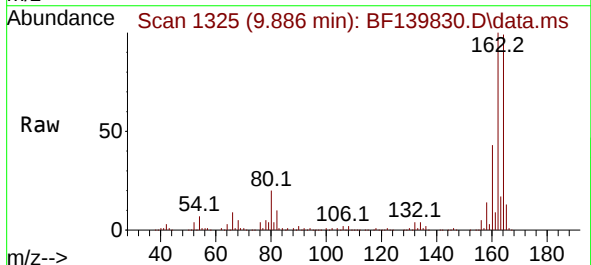
Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-101524

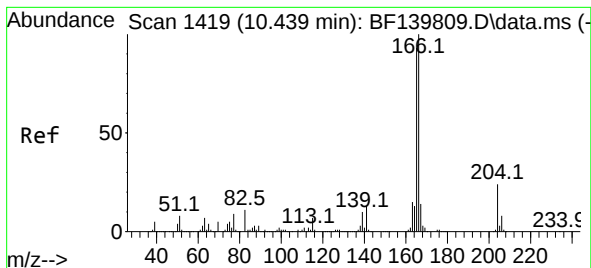
Tgt Ion:152 Resp: 56569  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.0 24.0  
153 13.0 10.4 15.6



#51  
2,6-Dinitrotoluene  
Concen: 10.085 ng  
RT: 9.886 min Scan# 1325  
Delta R.T. 0.206 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion:165 Resp: 20296  
Ion Ratio Lower Upper  
165 100  
63 1.4 50.0 75.0#  
89 1.6 46.8 70.2#





#58

Fluorene

Concen: 2.268 ng

RT: 10.433 min Scan# 1419

Delta R.T. -0.006 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Instrument :

BNA\_F

ClientSampleId :

OK-02-101524

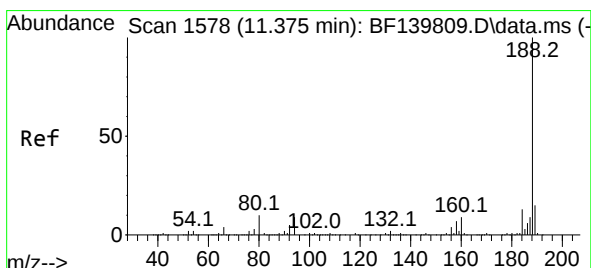
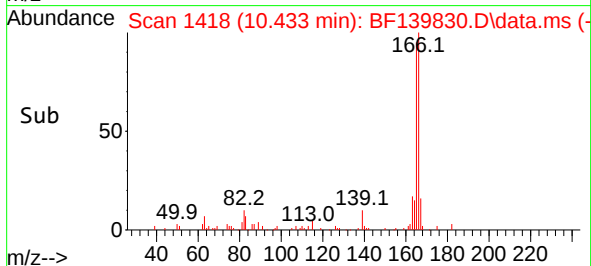
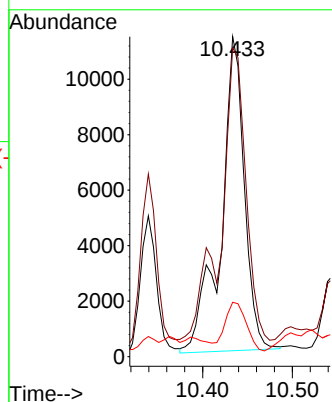
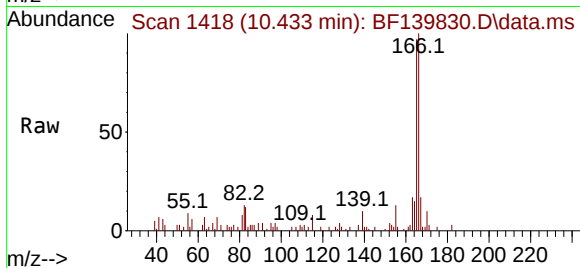
Tgt Ion:166 Resp: 20501

Ion Ratio Lower Upper

166 100

165 96.5 74.5 111.7

167 17.0 10.8 16.2#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.375 min Scan# 1578

Delta R.T. -0.000 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

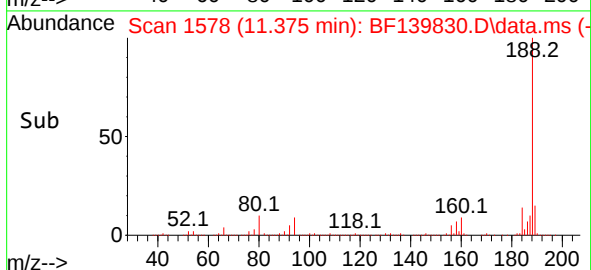
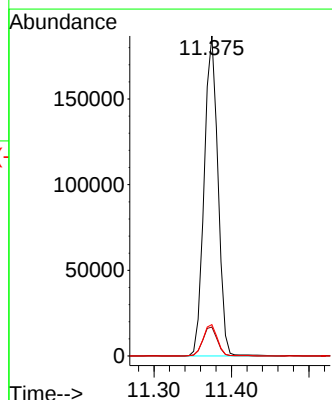
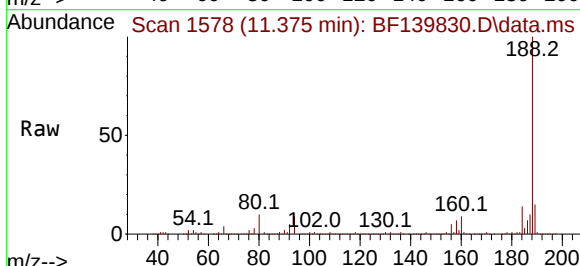
Tgt Ion:188 Resp: 230353

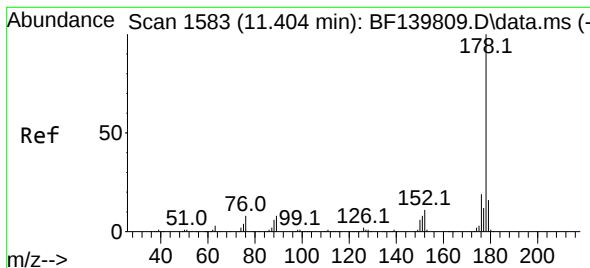
Ion Ratio Lower Upper

188 100

94 9.1 7.3 10.9

80 9.8 7.8 11.8





#71

Phenanthrene

Concen: 11.376 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Instrument :

BNA\_F

ClientSampleId :

OK-02-101524

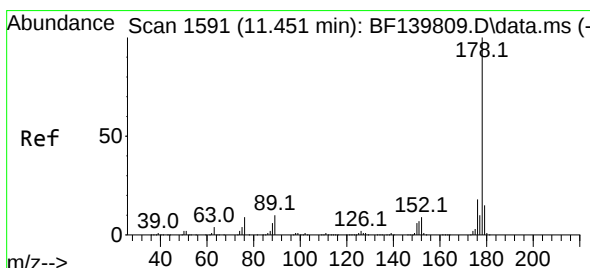
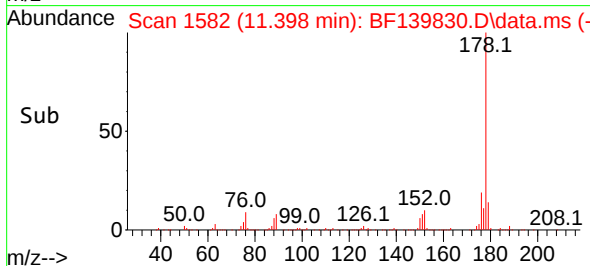
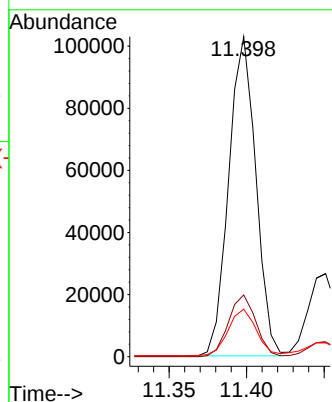
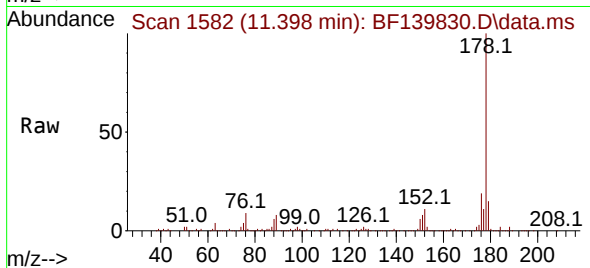
Tgt Ion:178 Resp: 125168

Ion Ratio Lower Upper

178 100

176 19.3 15.5 23.3

179 14.8 12.5 18.7



#72

Anthracene

Concen: 3.179 ng

RT: 11.451 min Scan# 1591

Delta R.T. -0.000 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

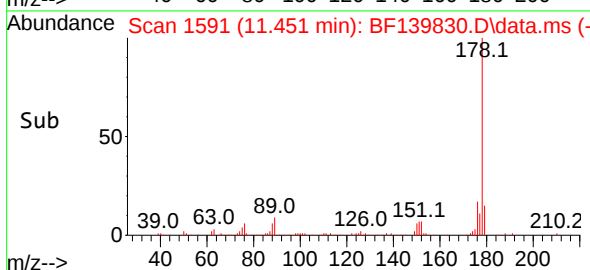
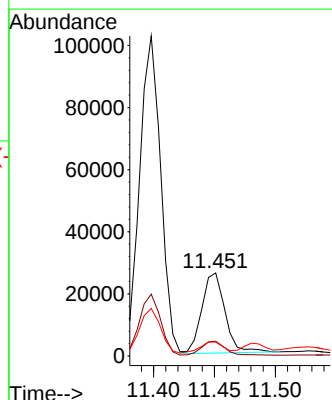
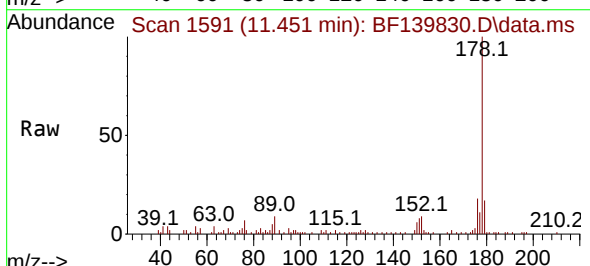
Tgt Ion:178 Resp: 34368

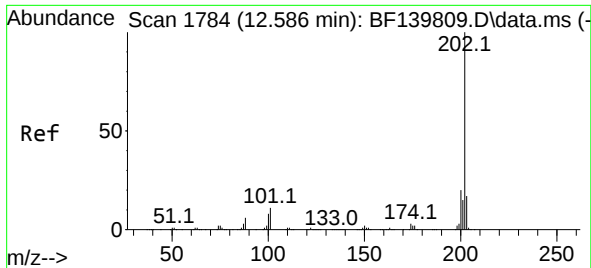
Ion Ratio Lower Upper

178 100

176 17.8 14.6 21.8

179 16.9 12.4 18.6

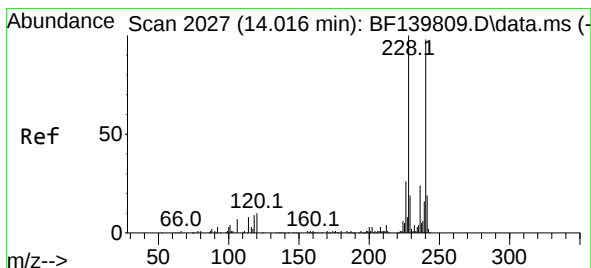
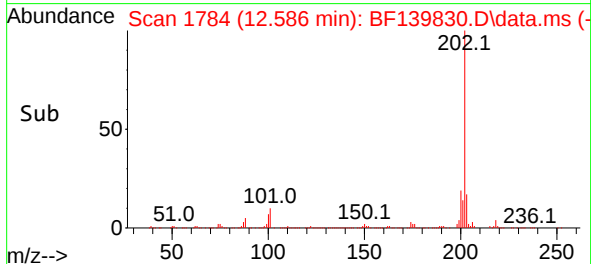
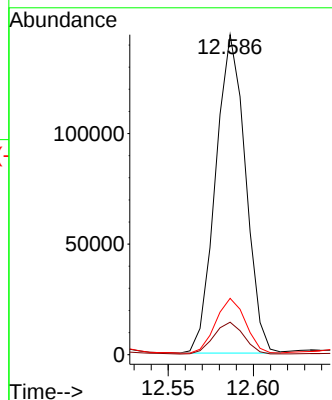
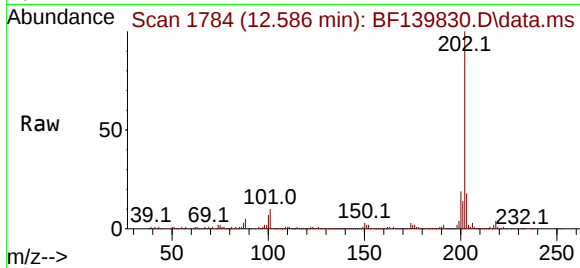




#75  
Fluoranthene  
Concen: 16.959 ng  
RT: 12.586 min Scan# 1784  
Delta R.T. -0.000 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

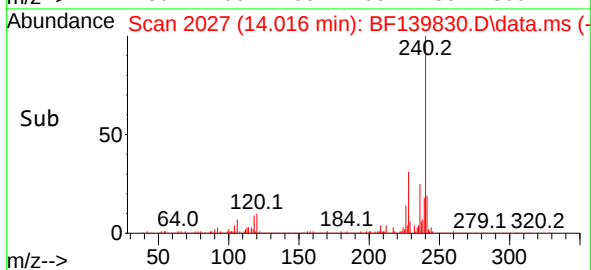
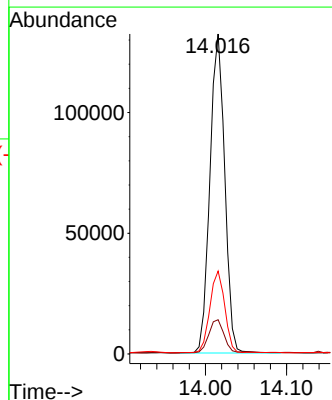
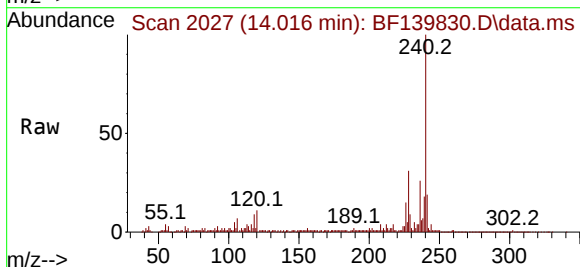
Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-101524

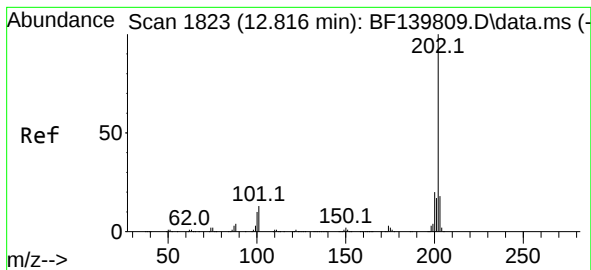
Tgt Ion:202 Resp: 176067  
Ion Ratio Lower Upper  
202 100  
101 10.1 0.0 30.8  
203 17.6 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.016 min Scan# 2027  
Delta R.T. -0.000 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion:240 Resp: 167078  
Ion Ratio Lower Upper  
240 100  
120 10.7 8.6 12.8  
236 25.9 20.0 30.0





#78

Pyrene

Concen: 13.992 ng

RT: 12.816 min Scan# 1823

Delta R.T. -0.000 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Instrument :

BNA\_F

ClientSampleId :

OK-02-101524

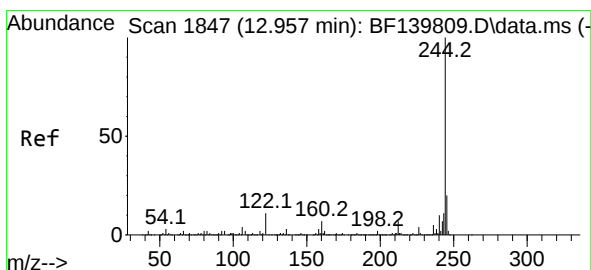
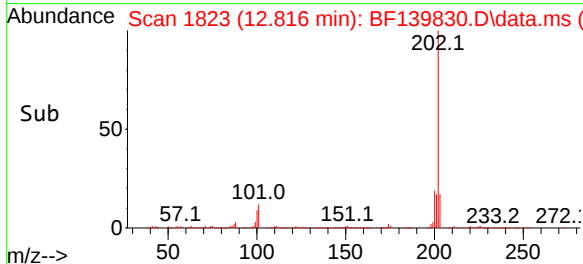
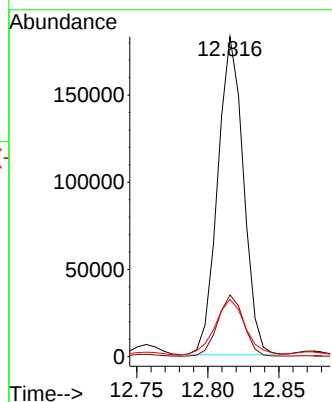
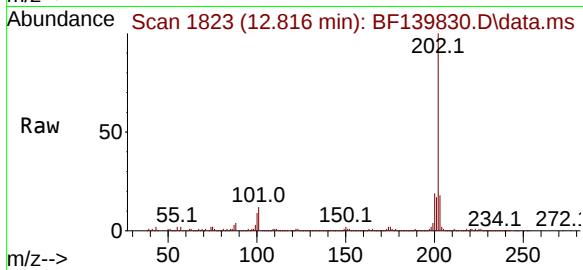
Tgt Ion:202 Resp: 229803

Ion Ratio Lower Upper

202 100

200 19.3 15.9 23.9

203 17.9 14.0 21.0



#79

Terphenyl-d14

Concen: 5.929 ng

RT: 12.957 min Scan# 1847

Delta R.T. -0.000 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

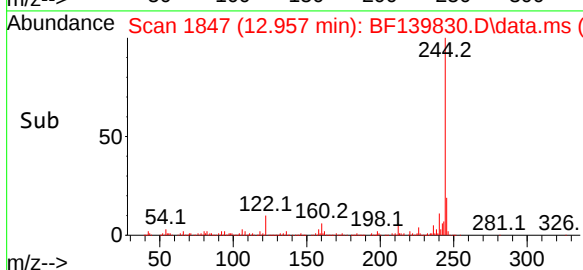
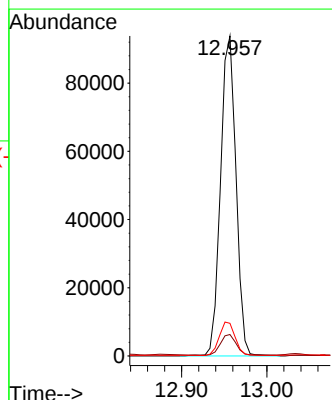
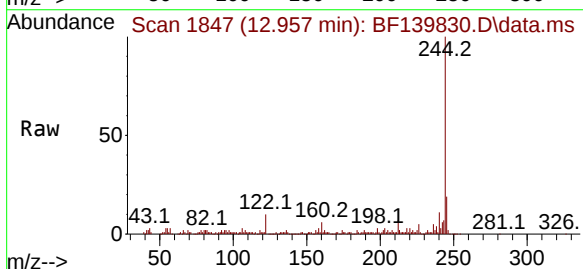
Tgt Ion:244 Resp: 118617

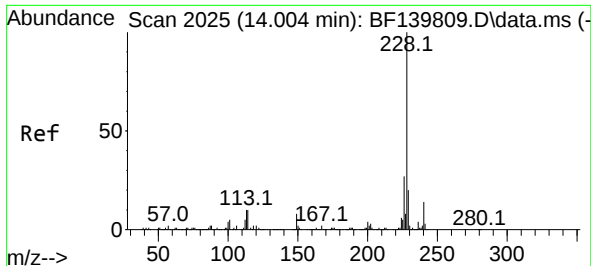
Ion Ratio Lower Upper

244 100

212 6.7 5.5 8.3

122 10.2 8.9 13.3

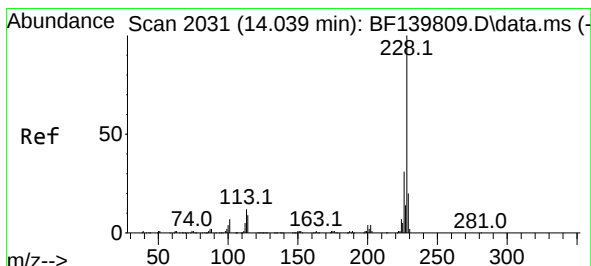
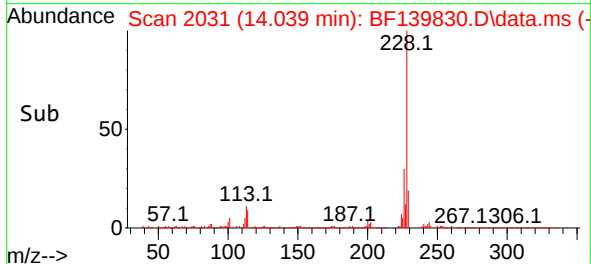
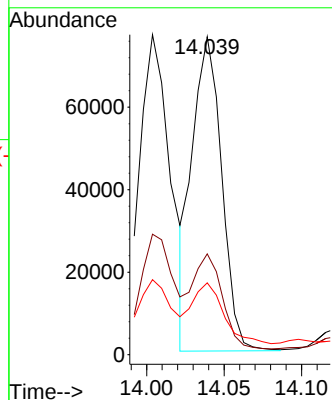
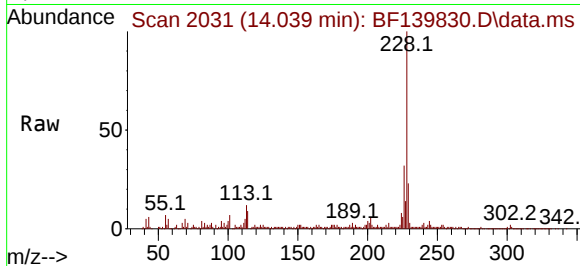




#81  
Benzo(a)anthracene  
Concen: 9.091 ng  
RT: 14.039 min Scan# 2025  
Delta R.T. 0.035 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

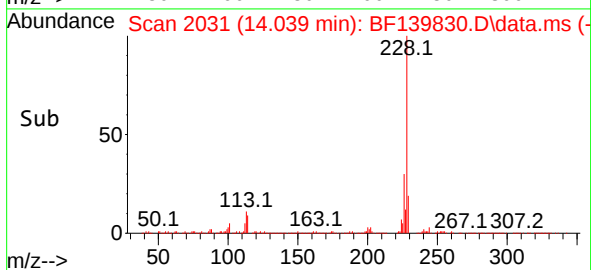
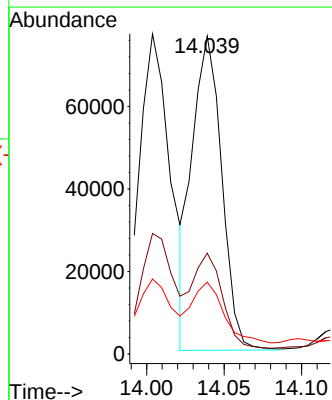
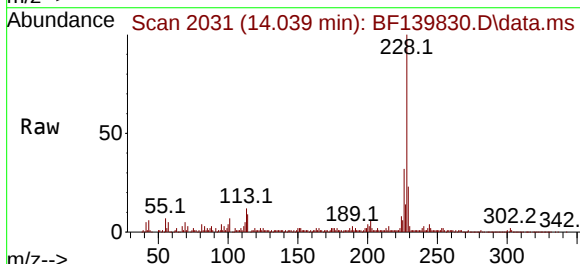
Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-101524

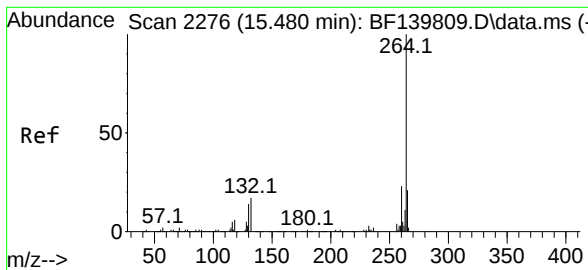
Tgt Ion:228 Resp: 100891  
Ion Ratio Lower Upper  
228 100  
226 31.7 21.8 32.8  
229 22.6 15.8 23.8



#83  
Chrysene  
Concen: 9.974 ng  
RT: 14.039 min Scan# 2031  
Delta R.T. -0.000 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

Tgt Ion:228 Resp: 100891  
Ion Ratio Lower Upper  
228 100  
226 31.7 24.1 36.1  
229 22.6 15.8 23.6

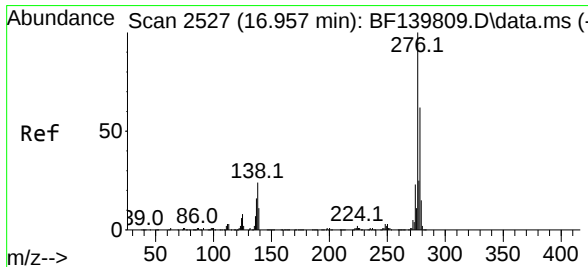
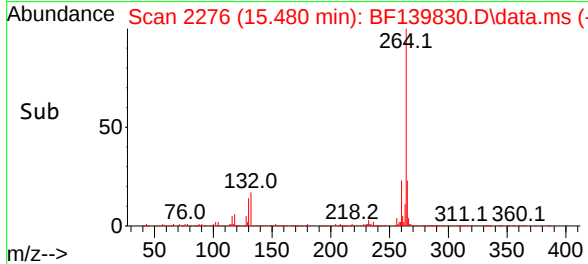
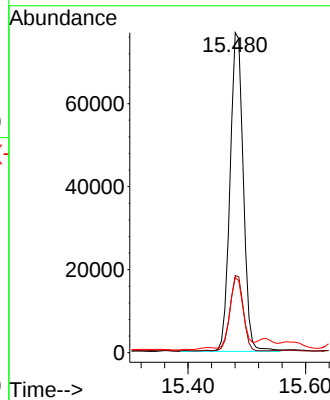
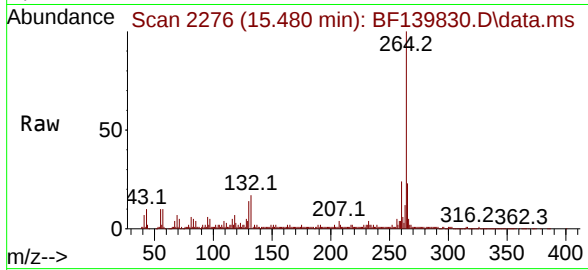




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.480 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

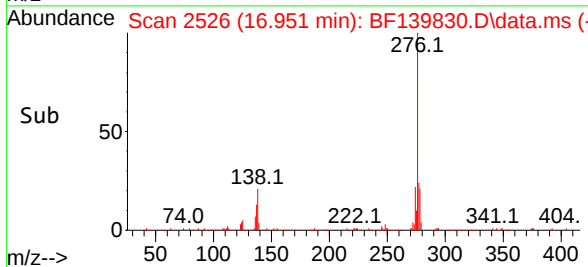
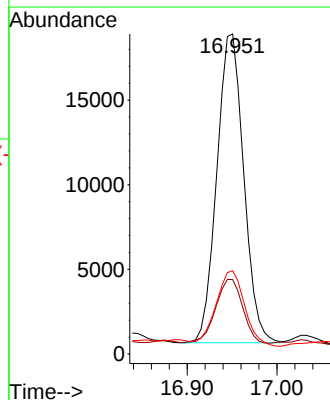
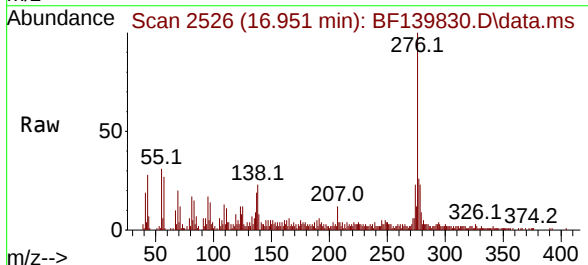
Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-101524

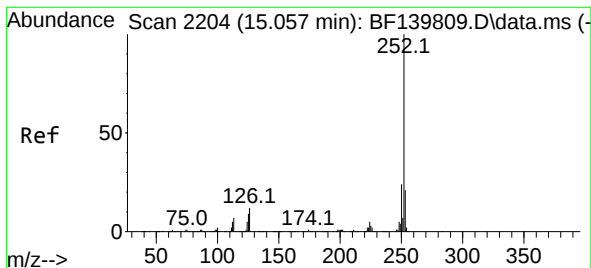
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 120234    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 24.1  | 18.8 28.2 |
| 265         | 23.4  | 17.2 25.8 |



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.716 ng  
RT: 16.951 min Scan# 2526  
Delta R.T. -0.006 min  
Lab File: BF139830.D  
Acq: 16 Oct 2024 15:40

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 37968     |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 138         | 20.8  | 20.0 30.0 |
| 277         | 26.2  | 20.1 30.1 |





#88

Benzo(b)fluoranthene

Concen: 18.246 ng

RT: 15.057 min Scan# 2204

Delta R.T. -0.000 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Instrument :

BNA\_F

ClientSampleId :

OK-02-101524

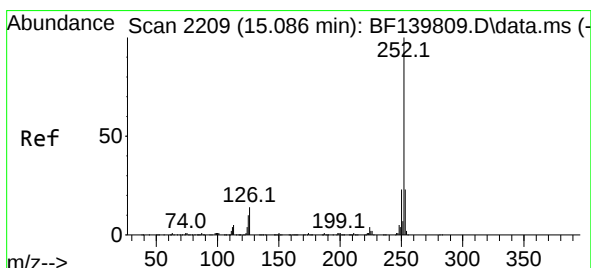
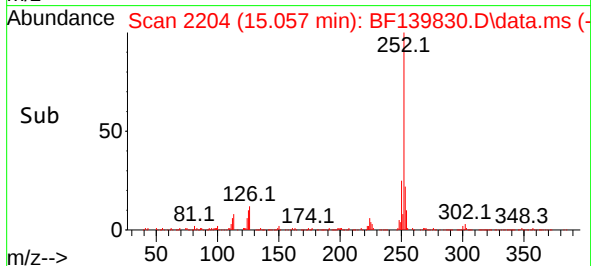
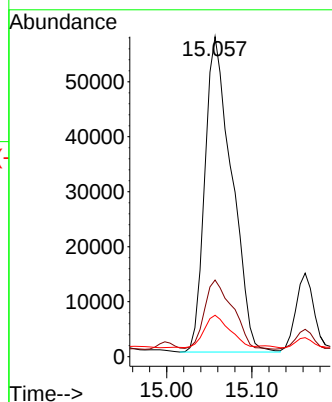
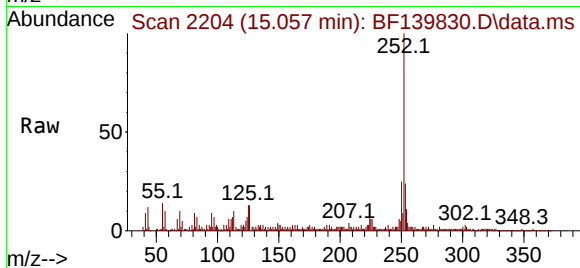
Tgt Ion:252 Resp: 125835

Ion Ratio Lower Upper

252 100

253 24.0 17.1 25.7

125 12.9 7.4 11.2#



#89

Benzo(k)fluoranthene

Concen: 20.560 ng

RT: 15.057 min Scan# 2204

Delta R.T. -0.030 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

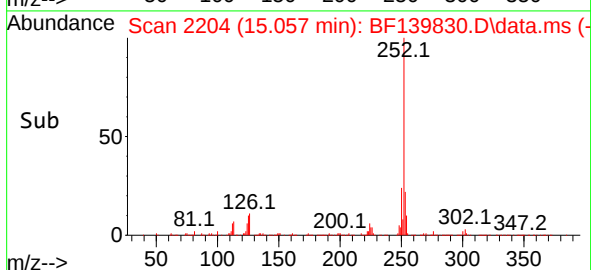
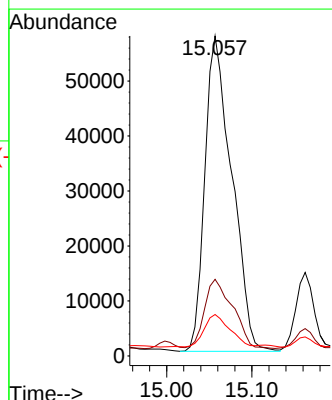
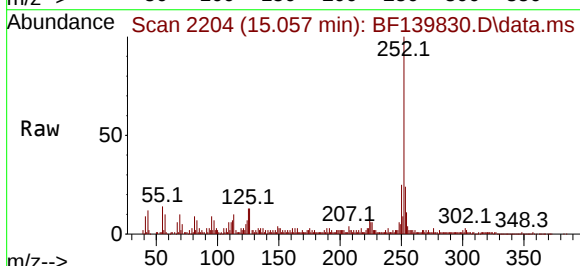
Tgt Ion:252 Resp: 125835

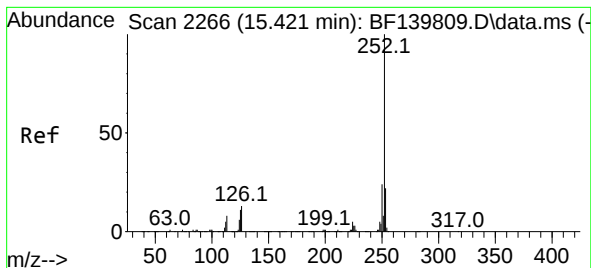
Ion Ratio Lower Upper

252 100

253 24.0 17.5 26.3

125 12.9 7.7 11.5#





#90

Benzo(a)pyrene

Concen: 11.244 ng

RT: 15.421 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Instrument :

BNA\_F

ClientSampleId :

OK-02-101524

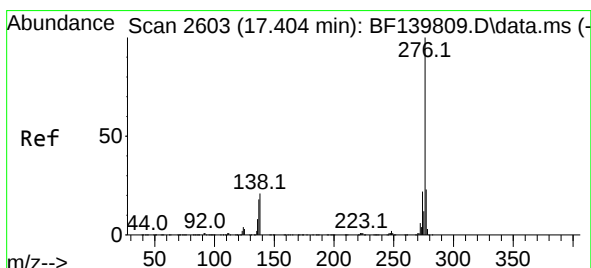
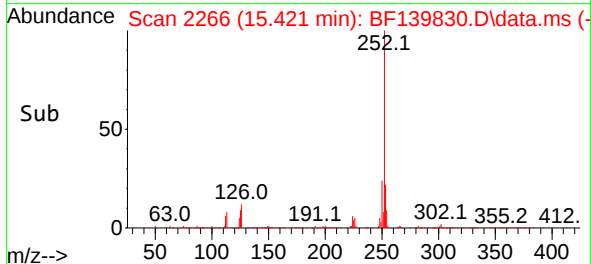
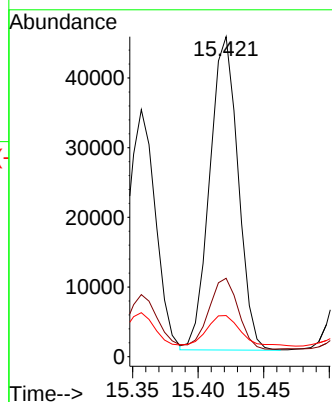
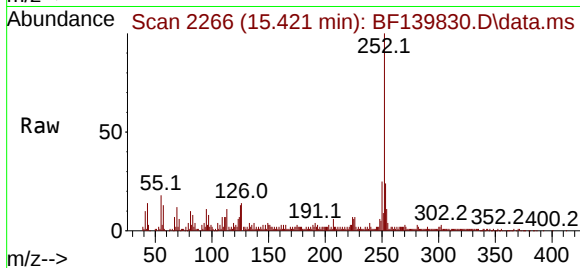
Tgt Ion:252 Resp: 67732

Ion Ratio Lower Upper

252 100

253 24.5 17.4 26.0

125 12.9 8.4 12.6#



#92

Benzo(g,h,i)perylene

Concen: 6.127 ng

RT: 17.392 min Scan# 2601

Delta R.T. -0.012 min

Lab File: BF139830.D

Acq: 16 Oct 2024 15:40

Tgt Ion:276 Resp: 42433

Ion Ratio Lower Upper

276 100

277 25.7 18.2 27.4

138 24.0 17.0 25.4

