

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082124\  
 Data File : BM047303.D  
 Acq On : 21 Aug 2024 18:25  
 Operator : RC/JU  
 Sample : P3617-07  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 VCPS-B4-081424-0-10

Quant Time: Aug 22 02:36:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Aug 11 23:47:58 2024  
 Response via : Initial Calibration

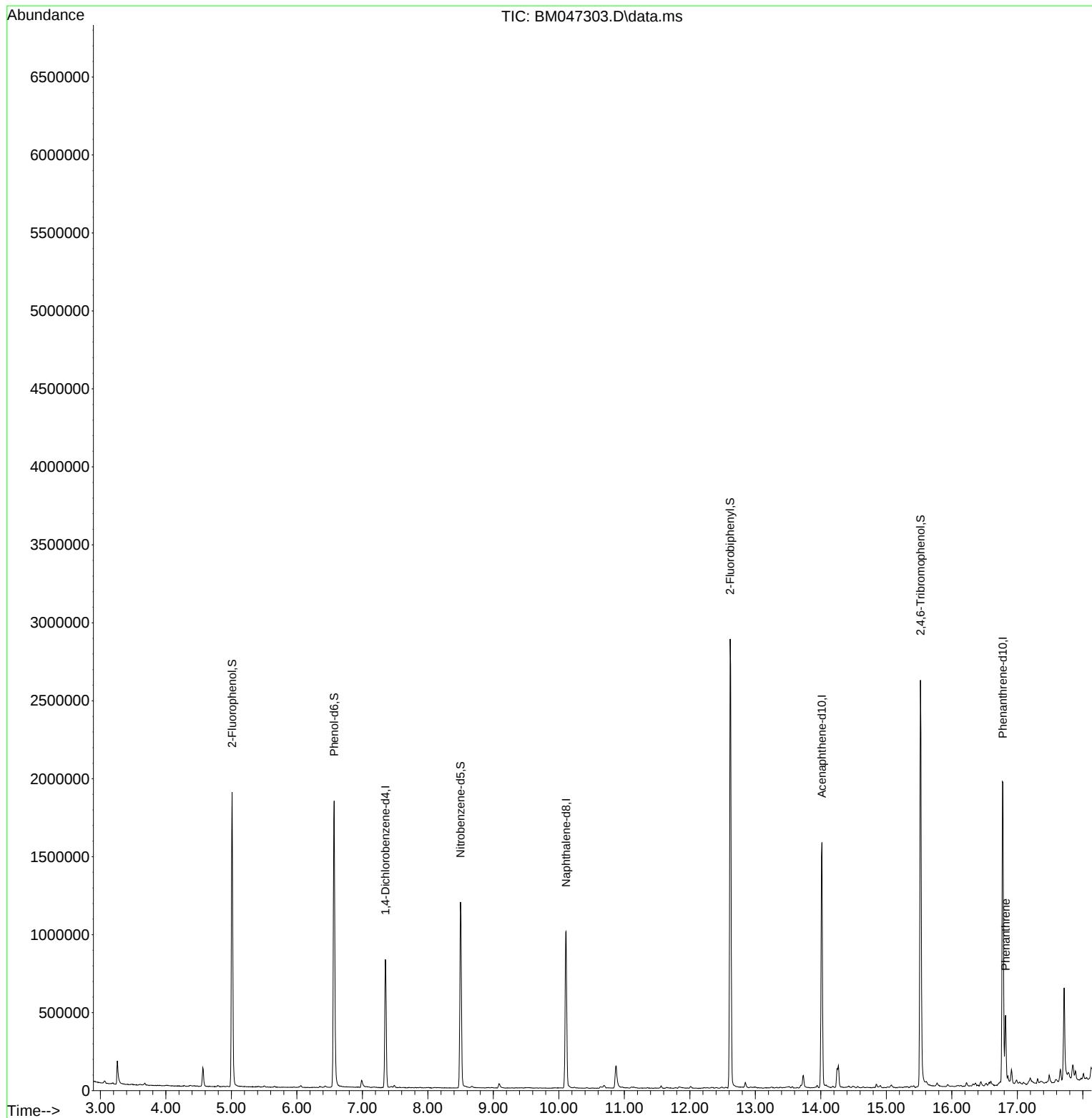
| Compound                    | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-----------|-------|----------|
| -----                       |        |      |          |           |       |          |
| Internal Standards          |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.351  | 152  | 227981   | 20.000    | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.110 | 136  | 854984   | 20.000    | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.016 | 164  | 569125   | 20.000    | ng    | -0.02    |
| 64) Phenanthrene-d10        | 16.780 | 188  | 1245083  | 20.000    | ng    | -0.01    |
| 76) Chrysene-d12            | 21.015 | 240  | 1211768  | 20.000    | ng    | -0.02    |
| 86) Perylene-d12            | 23.709 | 264  | 1161893  | 20.000    | ng    | -0.02    |
| System Monitoring Compounds |        |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.010  | 112  | 824962   | 64.658    | ng    | -0.01    |
| 7) Phenol-d6                | 6.569  | 99   | 1094542  | 62.258    | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 8.498  | 82   | 702389   | 41.366    | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.521 | 330  | 509659   | 77.232    | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 12.616 | 172  | 1581759  | 42.871    | ng    | -0.03    |
| 79) Terphenyl-d14           | 19.445 | 244  | 2621024  | 46.347    | ng    | -0.02    |
| Target Compounds            |        |      |          |           |       |          |
|                             |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde             | 6.540  | 77   | 1019     | Below Cal | #     | 55       |
| 71) Phenanthrene            | 16.821 | 178  | 265173   | 4.244     | ng    | 100      |
| 75) Fluoranthene            | 18.857 | 202  | 861388   | 11.334    | ng    | 98       |
| 78) Pyrene                  | 19.221 | 202  | 692301   | 8.001     | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.003 | 228  | 522955   | 6.501     | ng    | 96       |
| 83) Chrysene                | 21.056 | 228  | 560628   | 7.345     | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.697 | 276  | 257176   | 3.424     | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 22.868 | 252  | 637955   | 9.246     | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 22.868 | 252  | 637955   | 9.789     | ng    | 98       |
| 90) Benzo(a)pyrene          | 23.586 | 252  | 389085   | 6.509     | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 27.615 | 276  | 231093   | 3.662     | ng    | 99       |
| -----                       |        |      |          |           |       |          |

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

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
VCPS-B4-081424-0-10

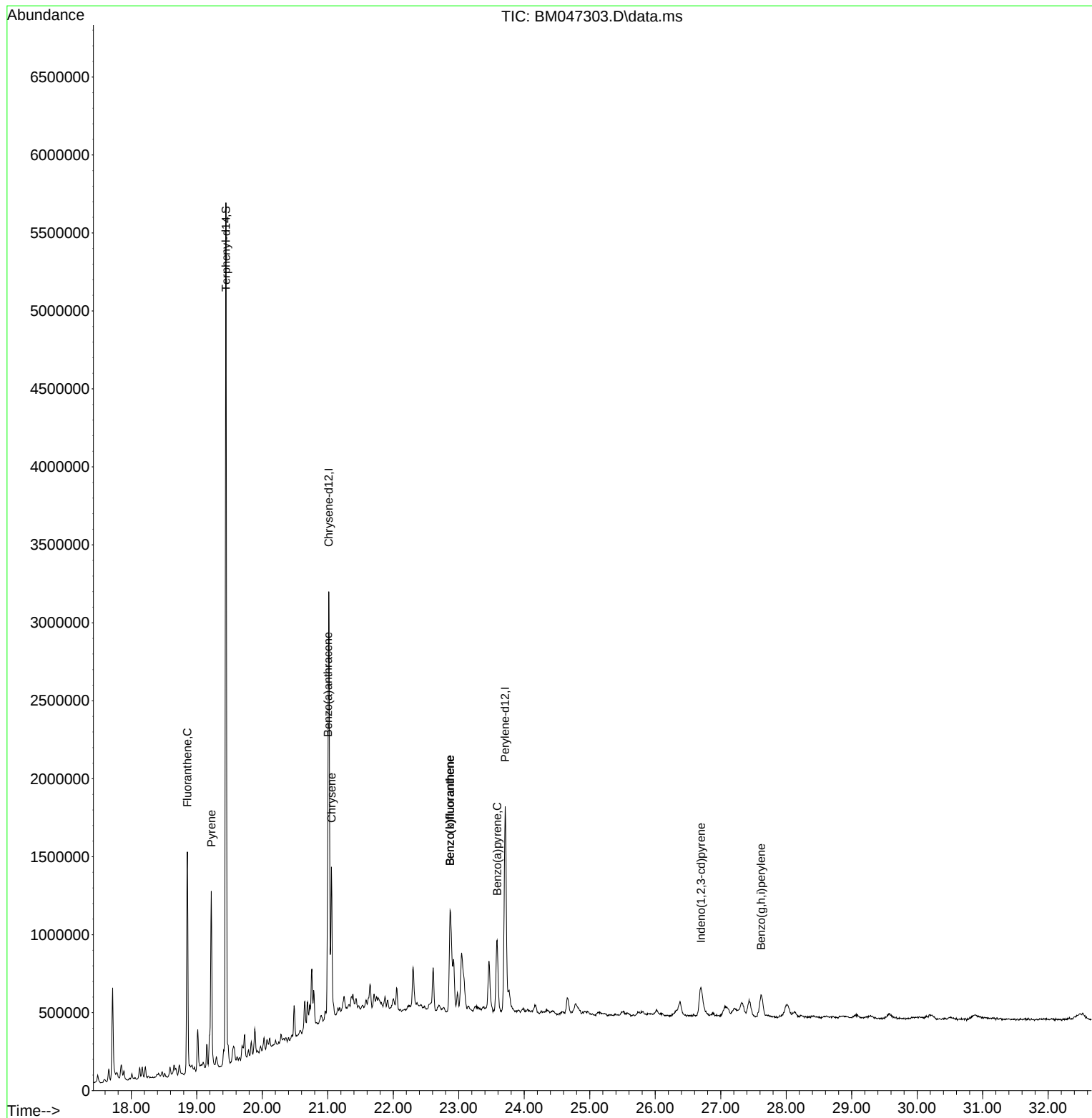
Quant Time: Aug 22 02:36:21 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Aug 11 23:47:58 2024  
Response via : Initial Calibration

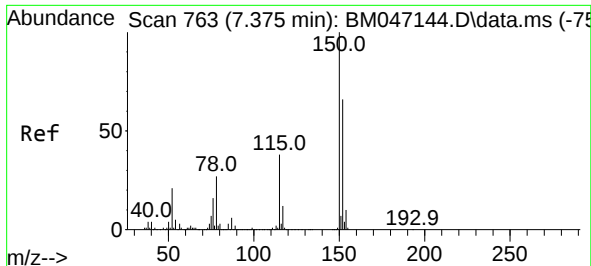


Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082124\  
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QLast Update : Sun Aug 11 23:47:58 2024  
Response via : Initial Calibration



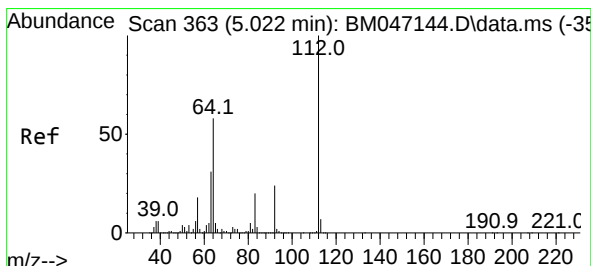
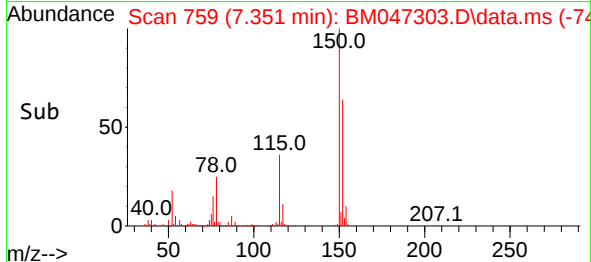
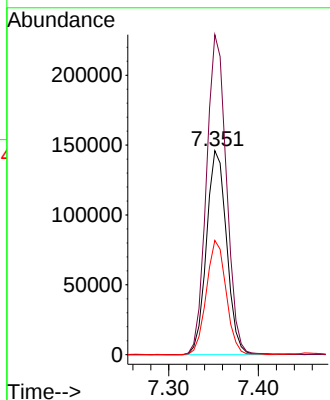
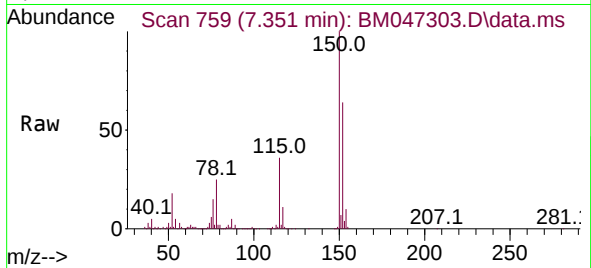


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.351 min Scan# 70  
 Delta R.T. -0.024 min  
 Lab File: BM047303.D  
 Acq: 21 Aug 2024 18:25

Instrument :  
 BNA\_M  
 ClientSampleId :  
 VCPS-B4-081424-0-10

Tgt Ion:152 Resp: 227981  

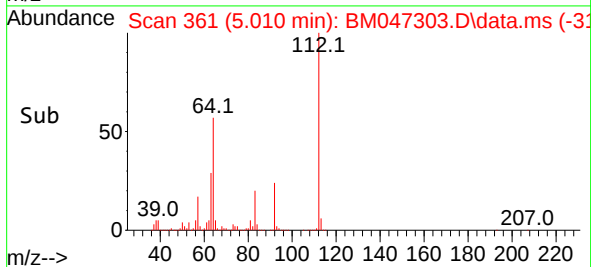
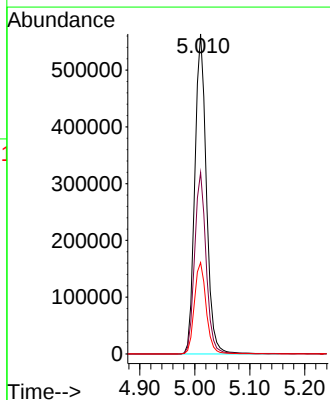
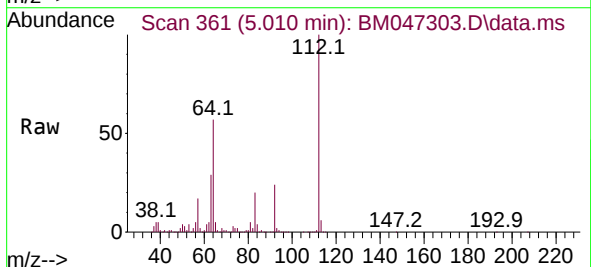
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 156.9 | 120.5 | 180.7 |
| 115 | 56.0  | 45.5  | 68.3  |

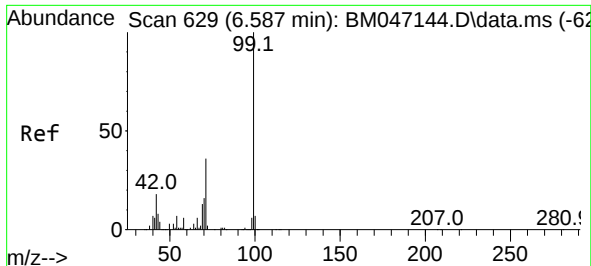


#5  
 2-Fluorophenol  
 Concen: 64.658 ng  
 RT: 5.010 min Scan# 361  
 Delta R.T. -0.012 min  
 Lab File: BM047303.D  
 Acq: 21 Aug 2024 18:25

Tgt Ion:112 Resp: 824962  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 64  | 56.7  | 46.7  | 70.1  |
| 63  | 28.6  | 24.8  | 37.2  |



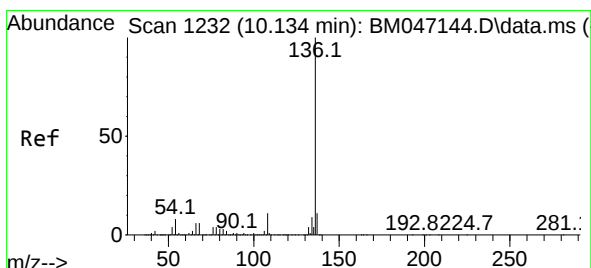
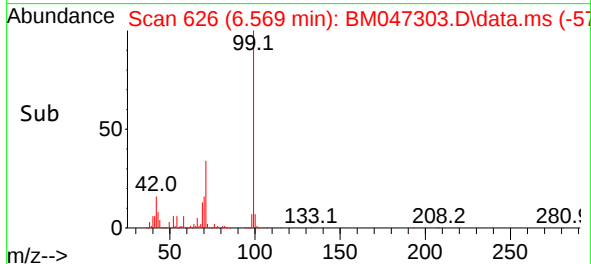
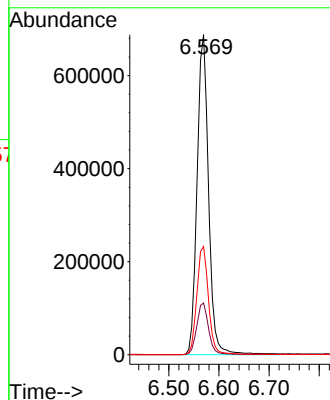
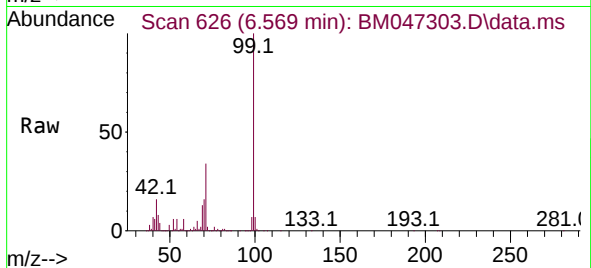


#7  
Phenol-d6  
Concen: 62.258 ng  
RT: 6.569 min Scan# 61  
Delta R.T. -0.018 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

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VCPS-B4-081424-0-10

Tgt Ion: 99 Resp: 1094542

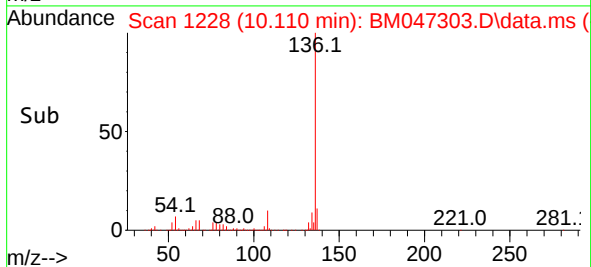
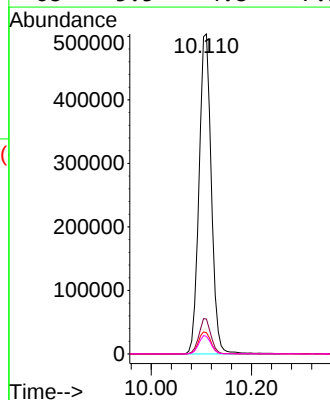
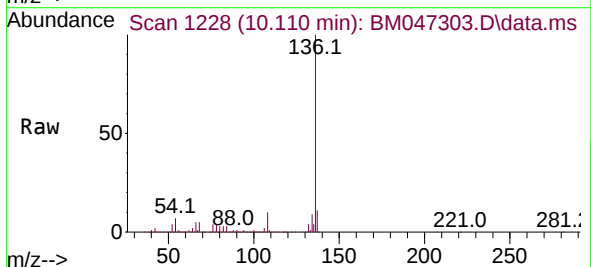
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.1  | 14.1  | 21.1  |
| 71  | 33.8  | 28.5  | 42.7  |

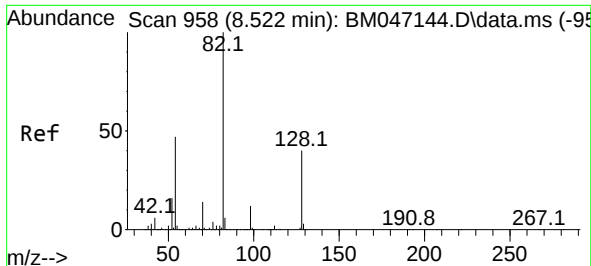


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.110 min Scan# 1228  
Delta R.T. -0.024 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

Tgt Ion: 136 Resp: 854984

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.8   | 13.2  |
| 54  | 6.6   | 6.0   | 9.0   |
| 68  | 5.5   | 4.8   | 7.2   |

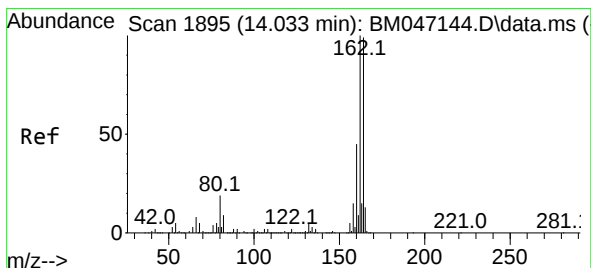
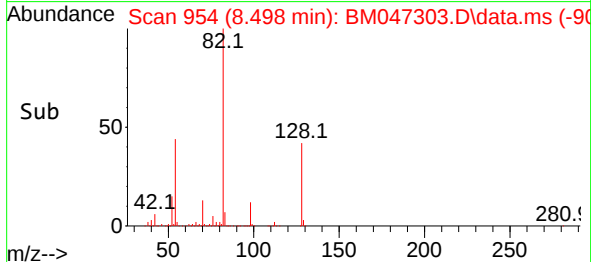
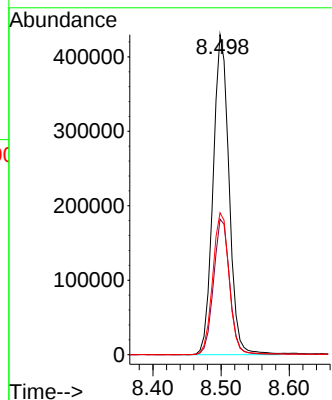
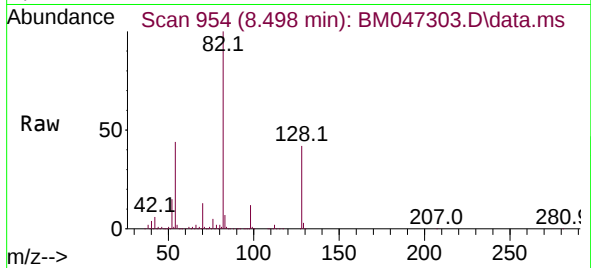




#23  
Nitrobenzene-d5  
Concen: 41.366 ng  
RT: 8.498 min Scan# 91  
Delta R.T. -0.024 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

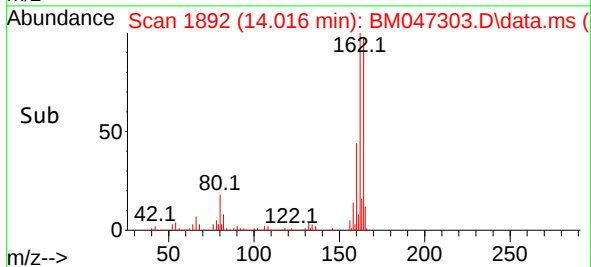
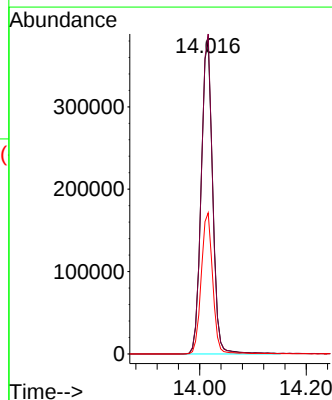
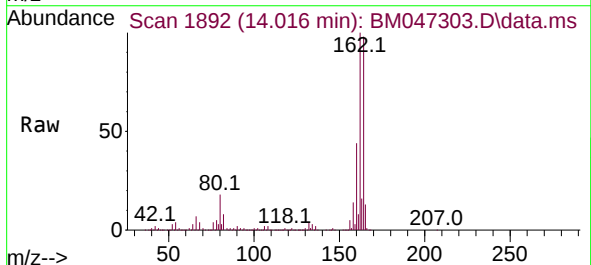
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VCPS-B4-081424-0-10

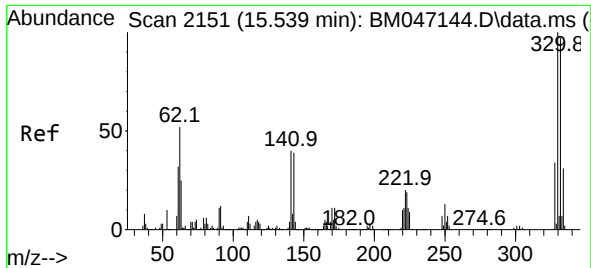
Tgt Ion: 82 Resp: 702389  
Ion Ratio Lower Upper  
82 100  
128 42.4 32.3 48.5  
54 44.3 37.4 56.2



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.016 min Scan# 1892  
Delta R.T. -0.018 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

Tgt Ion: 164 Resp: 569125  
Ion Ratio Lower Upper  
164 100  
162 102.2 80.7 121.1  
160 45.1 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 77.232 ng

RT: 15.521 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Instrument :

BNA\_M

ClientSampleId :

VCPS-B4-081424-0-10

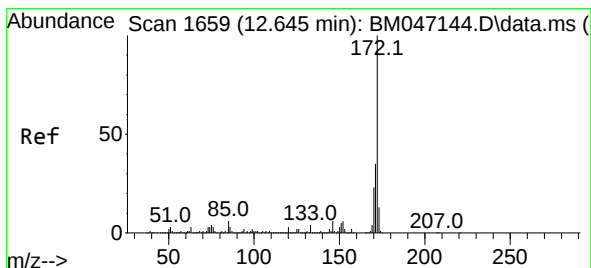
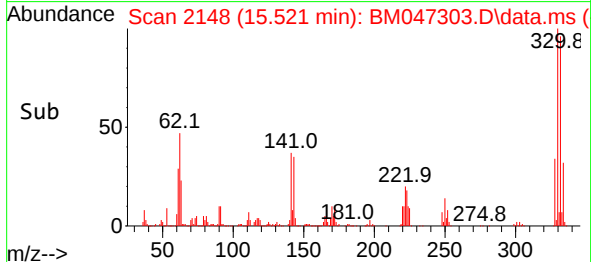
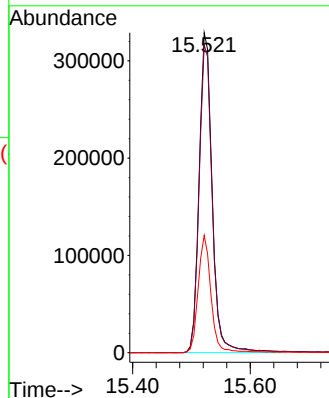
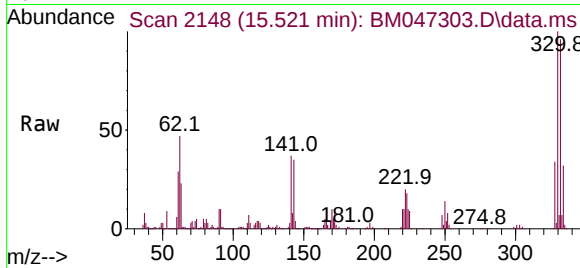
Tgt Ion:330 Resp: 509659

Ion Ratio Lower Upper

330 100

332 96.7 77.4 116.2

141 36.0 31.6 47.4



#45

2-Fluorobiphenyl

Concen: 42.871 ng

RT: 12.616 min Scan# 1654

Delta R.T. -0.029 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

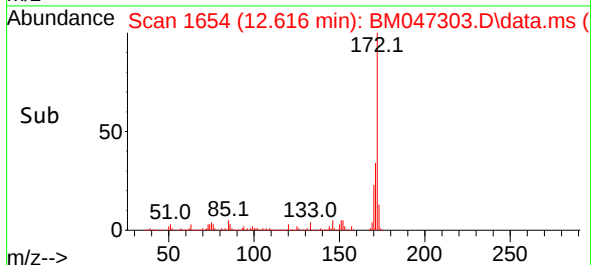
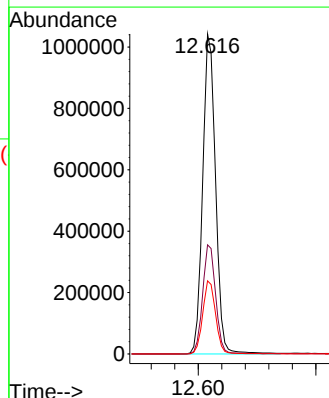
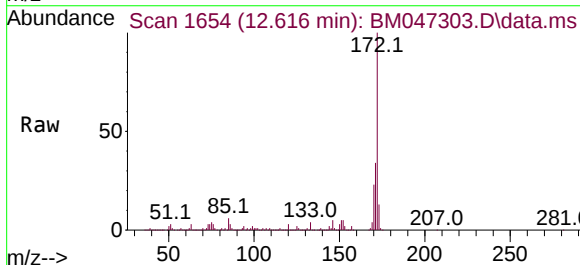
Tgt Ion:172 Resp: 1581759

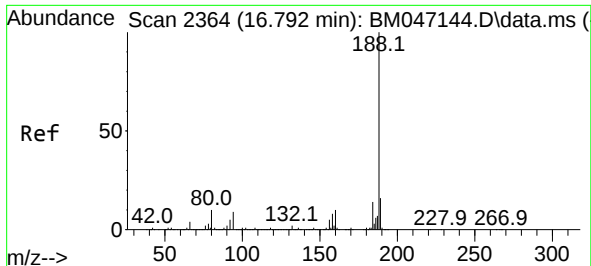
Ion Ratio Lower Upper

172 100

171 34.1 27.8 41.6

170 22.9 18.7 28.1

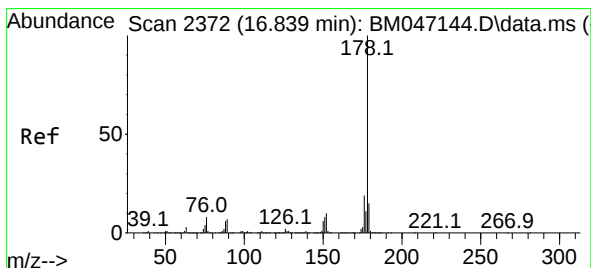
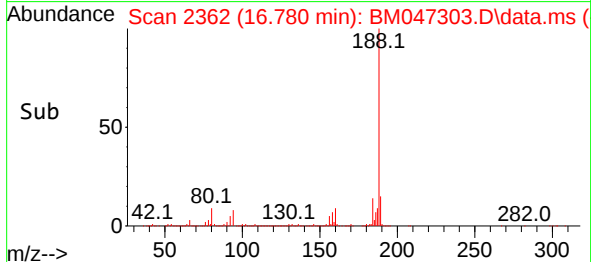
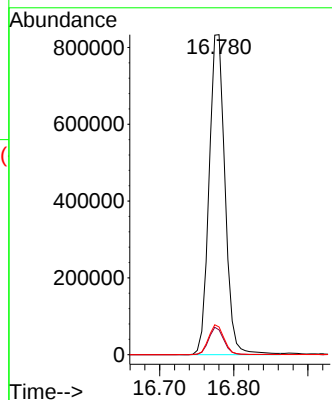
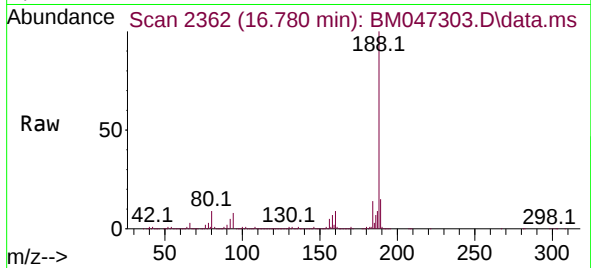




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.780 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

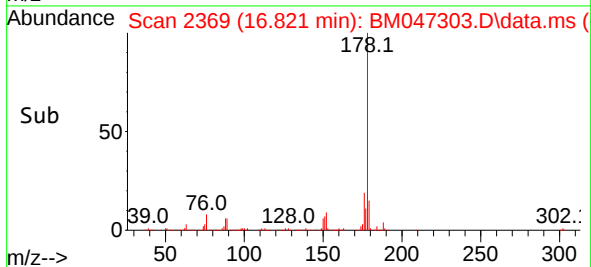
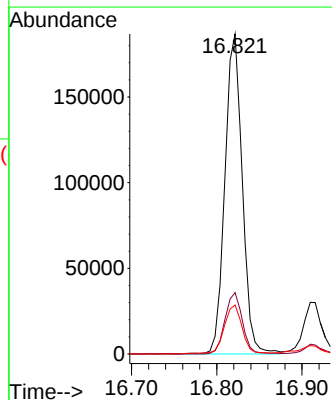
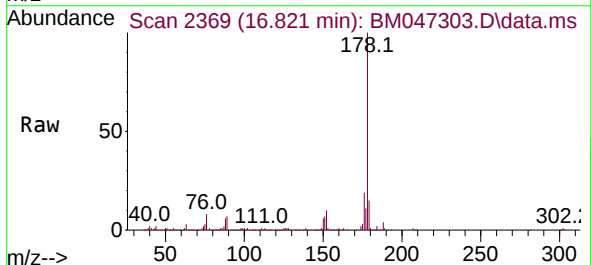
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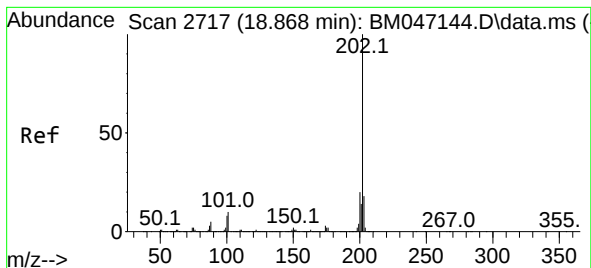
Tgt Ion:188 Resp: 1245083  
Ion Ratio Lower Upper  
188 100  
94 7.7 7.0 10.6  
80 8.7 8.0 12.0



#71  
Phenanthrene  
Concen: 4.244 ng  
RT: 16.821 min Scan# 2369  
Delta R.T. -0.018 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

Tgt Ion:178 Resp: 265173  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.3 22.9  
179 15.3 12.4 18.6

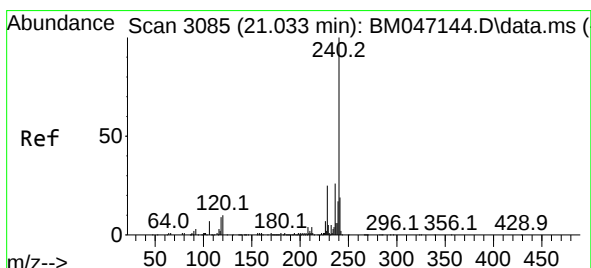
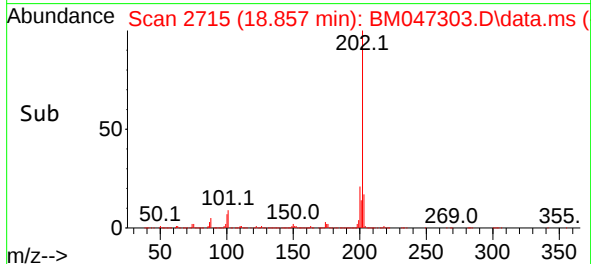
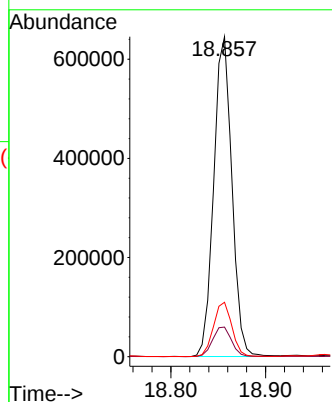
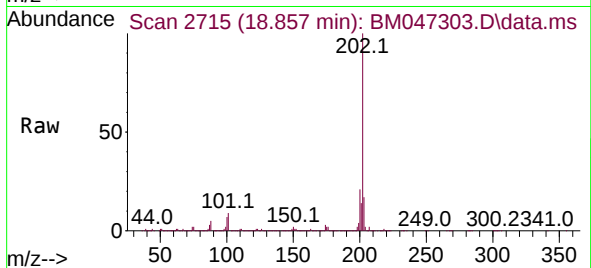




#75  
Fluoranthene  
Concen: 11.334 ng  
RT: 18.857 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

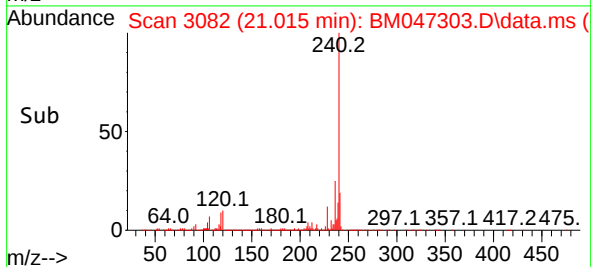
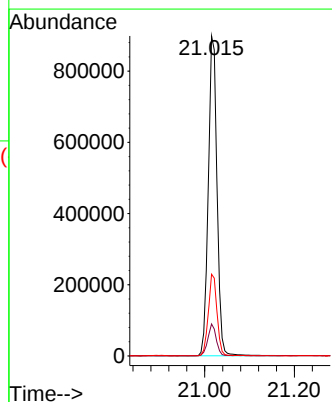
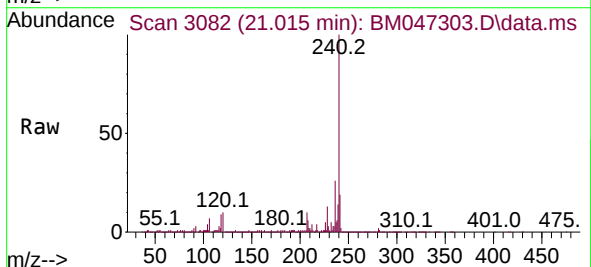
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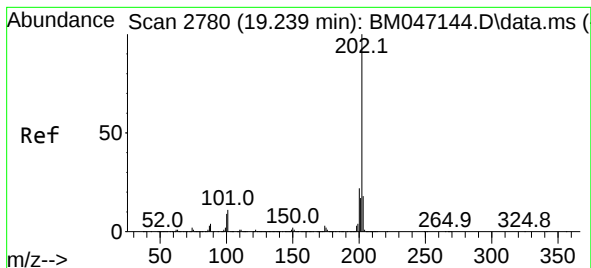
Tgt Ion:202 Resp: 861388  
Ion Ratio Lower Upper  
202 100  
101 9.3 0.0 30.2  
203 17.0 0.0 37.6



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.015 min Scan# 3082  
Delta R.T. -0.018 min  
Lab File: BM047303.D  
Acq: 21 Aug 2024 18:25

Tgt Ion:240 Resp: 1211768  
Ion Ratio Lower Upper  
240 100  
120 10.0 8.2 12.2  
236 25.5 20.6 30.8





#78

Pyrene

Concen: 8.001 ng

RT: 19.221 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Instrument :

BNA\_M

ClientSampleId :

VCPS-B4-081424-0-10

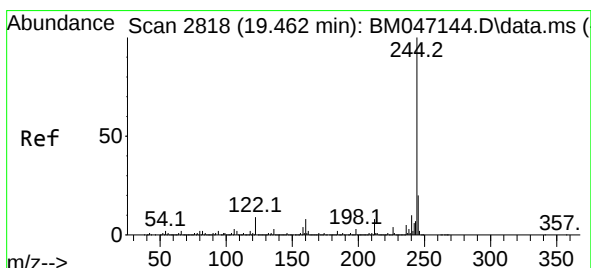
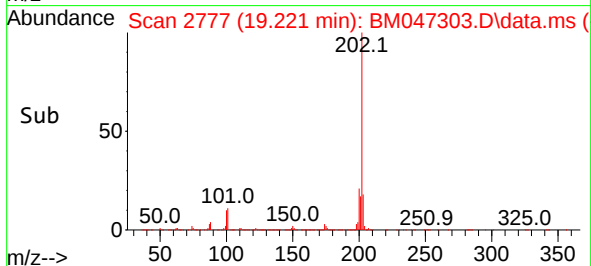
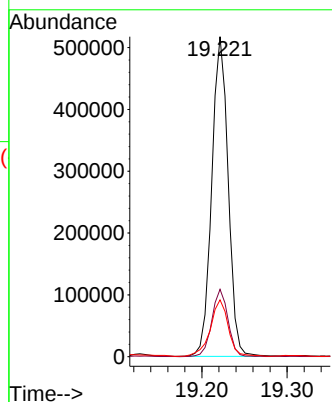
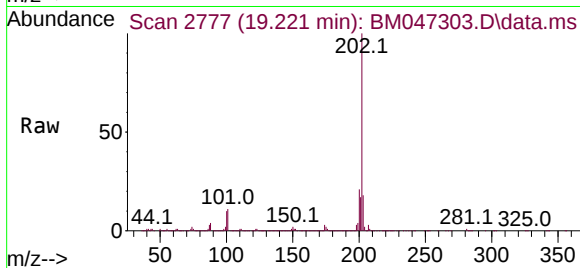
Tgt Ion:202 Resp: 692301

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.8 14.2 21.2



#79

Terphenyl-d14

Concen: 46.347 ng

RT: 19.445 min Scan# 2815

Delta R.T. -0.018 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

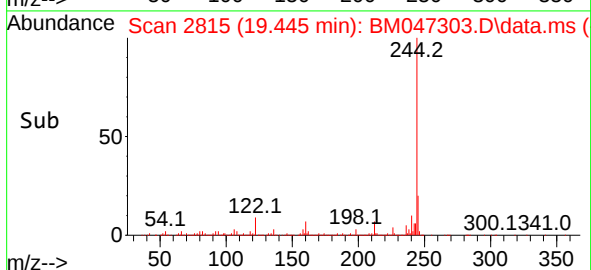
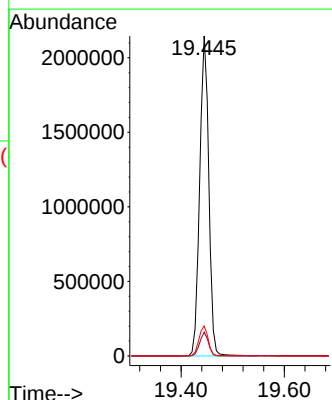
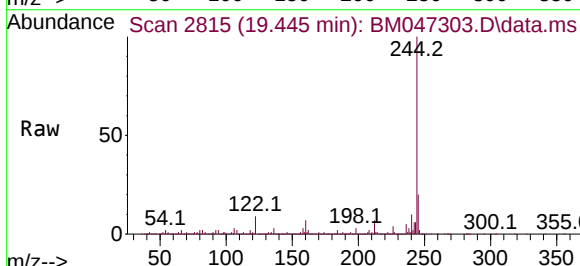
Tgt Ion:244 Resp: 2621024

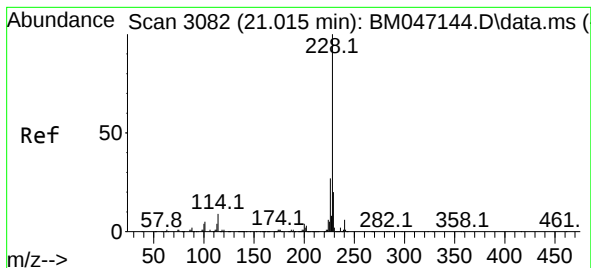
Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.4

122 9.3 7.1 10.7





#81

Benzo(a)anthracene

Concen: 6.501 ng

RT: 21.003 min Scan# 3080

Delta R.T. -0.012 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Instrument :

BNA\_M

ClientSampleId :

VCPS-B4-081424-0-10

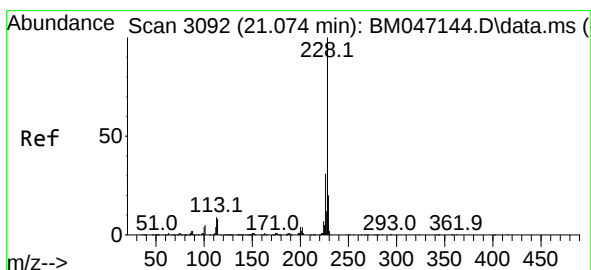
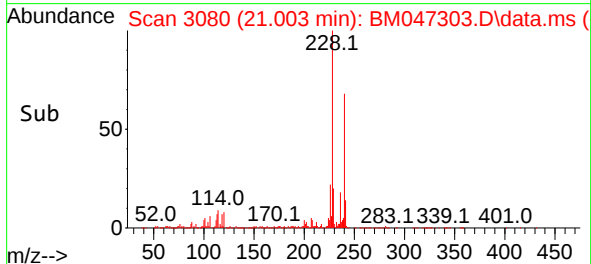
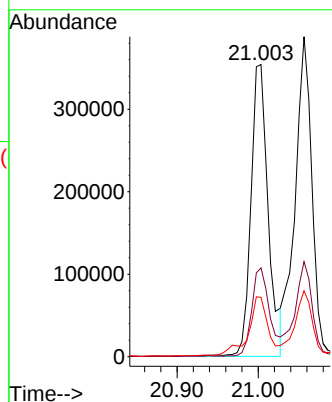
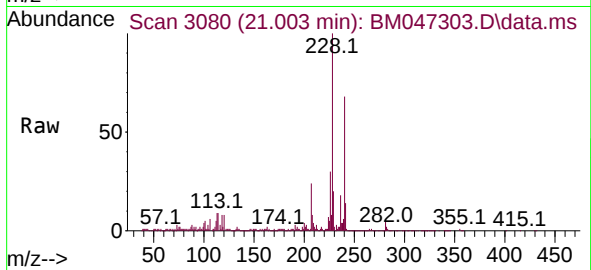
Tgt Ion:228 Resp: 522955

Ion Ratio Lower Upper

228 100

226 30.4 21.8 32.6

229 20.3 15.8 23.8



#83

Chrysene

Concen: 7.345 ng

RT: 21.056 min Scan# 3089

Delta R.T. -0.018 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

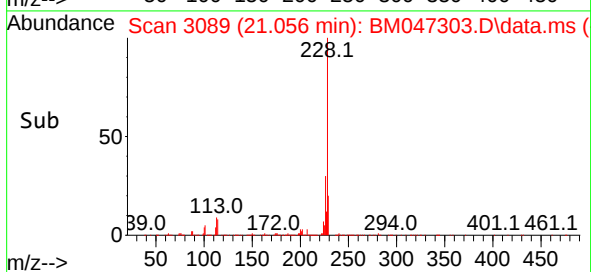
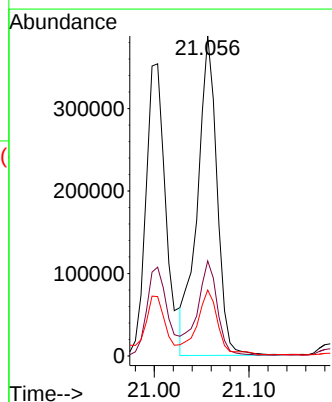
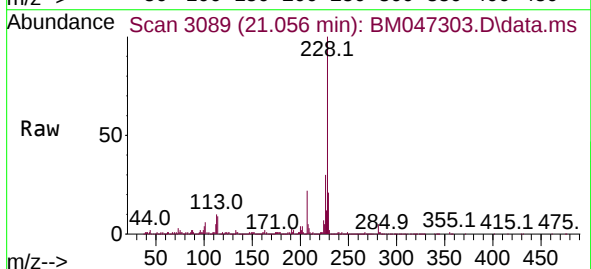
Tgt Ion:228 Resp: 560628

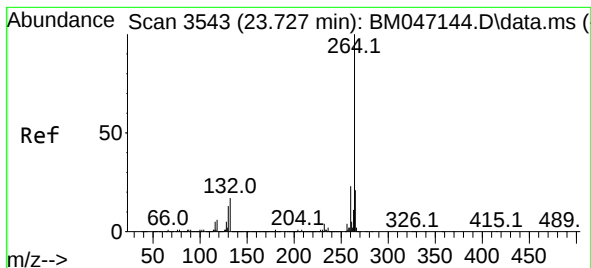
Ion Ratio Lower Upper

228 100

226 29.7 24.4 36.6

229 20.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.709 min Scan# 3

Delta R.T. -0.018 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Instrument :

BNA\_M

ClientSampleId :

VCPS-B4-081424-0-10

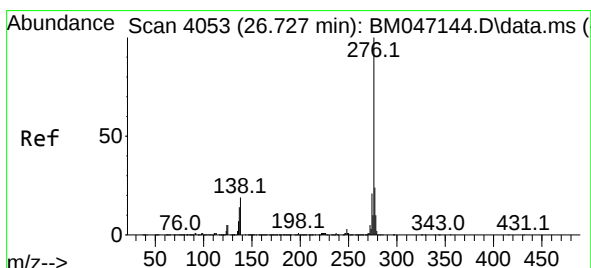
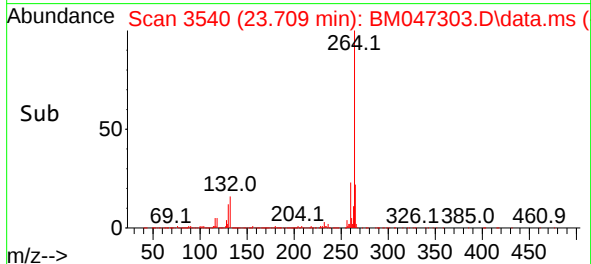
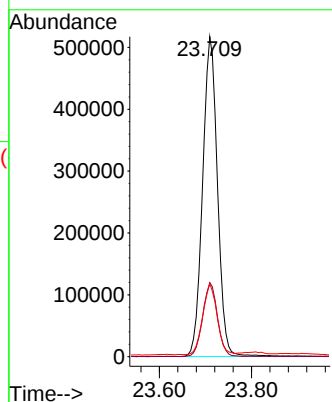
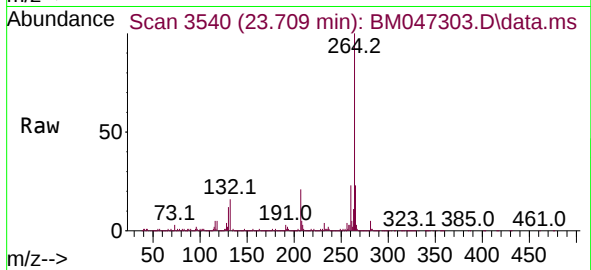
Tgt Ion:264 Resp: 1161893

Ion Ratio Lower Upper

264 100

260 23.1 18.5 27.7

265 22.8 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.424 ng

RT: 26.697 min Scan# 4048

Delta R.T. -0.029 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

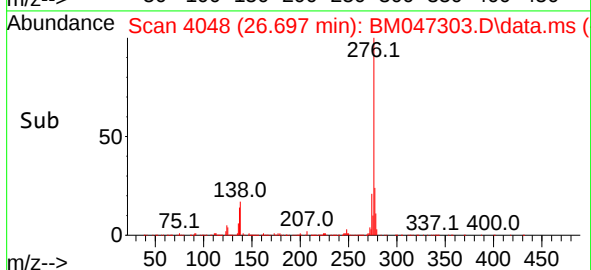
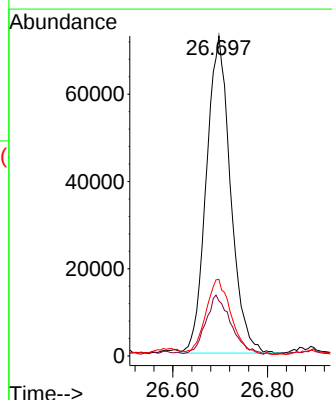
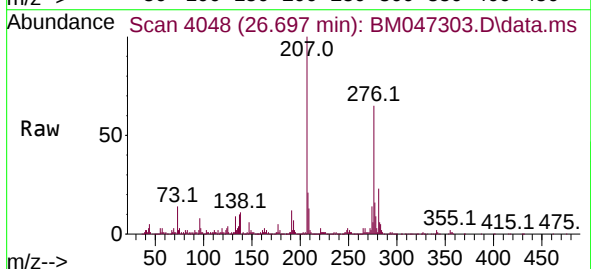
Tgt Ion:276 Resp: 257176

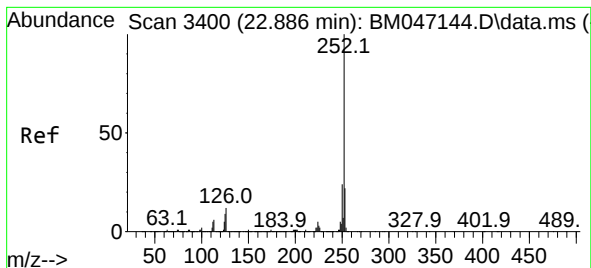
Ion Ratio Lower Upper

276 100

138 19.3 19.4 29.0#

277 24.5 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 9.246 ng

RT: 22.868 min Scan# 3397

Delta R.T. -0.018 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Instrument :

BNA\_M

ClientSampleId :

VCPS-B4-081424-0-10

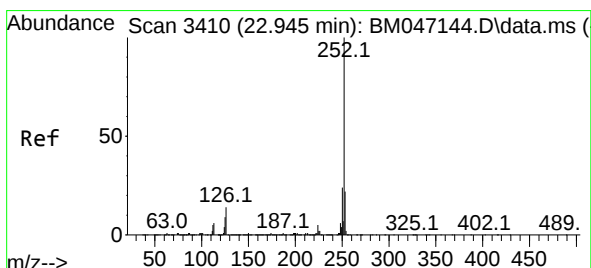
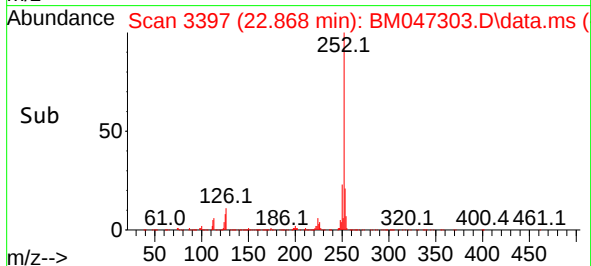
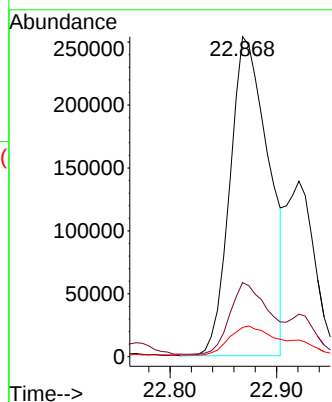
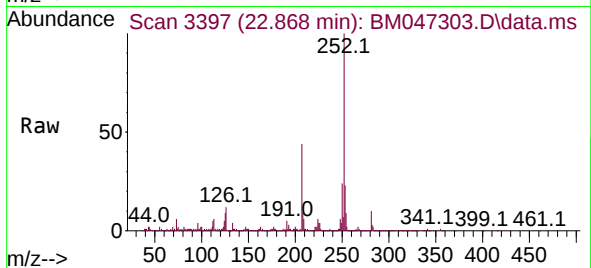
Tgt Ion:252 Resp: 637955

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.6

125 9.2 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 9.789 ng

RT: 22.868 min Scan# 3397

Delta R.T. -0.077 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

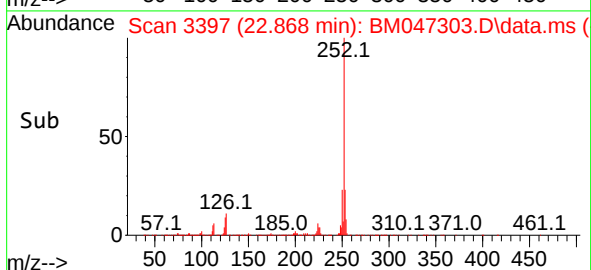
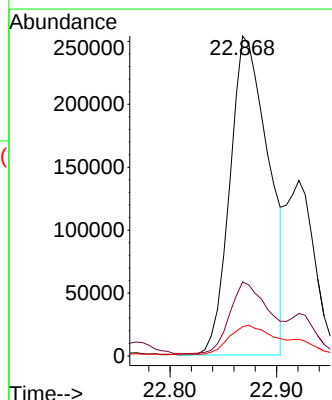
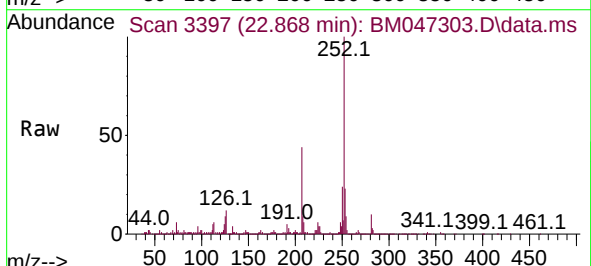
Tgt Ion:252 Resp: 637955

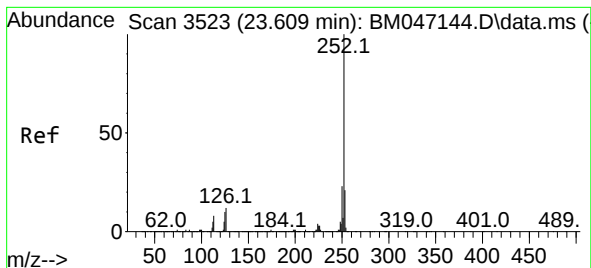
Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 9.2 7.4 11.2





#90

Benzo(a)pyrene

Concen: 6.509 ng

RT: 23.586 min Scan# 31

Delta R.T. -0.024 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Instrument :

BNA\_M

ClientSampleId :

VCPS-B4-081424-0-10

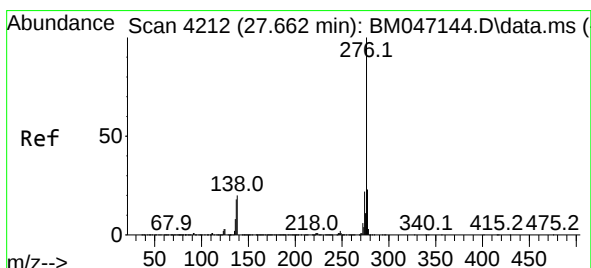
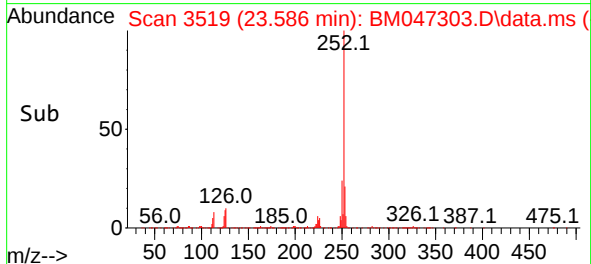
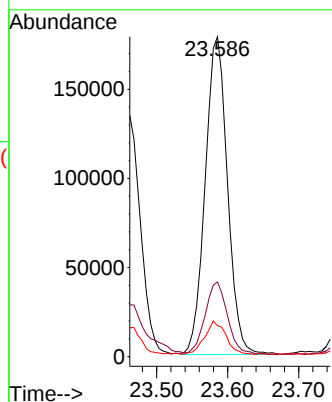
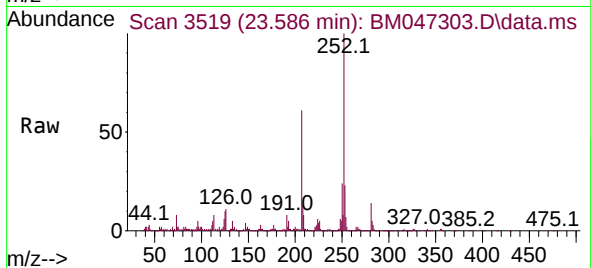
Tgt Ion:252 Resp: 389085

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

125 9.7 8.2 12.2



#92

Benzo(g,h,i)perylene

Concen: 3.662 ng

RT: 27.615 min Scan# 4204

Delta R.T. -0.047 min

Lab File: BM047303.D

Acq: 21 Aug 2024 18:25

Tgt Ion:276 Resp: 231093

Ion Ratio Lower Upper

276 100

277 23.3 18.8 28.2

138 19.9 16.2 24.4

