

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP060624\  
 Data File : BP020543.D  
 Acq On : 06 Jun 2024 16:02  
 Operator : MA/JU  
 Sample : P2683-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-4

Quant Time: Jun 06 16:52:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP052924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 30 03:41:03 2024  
 Response via : Initial Calibration

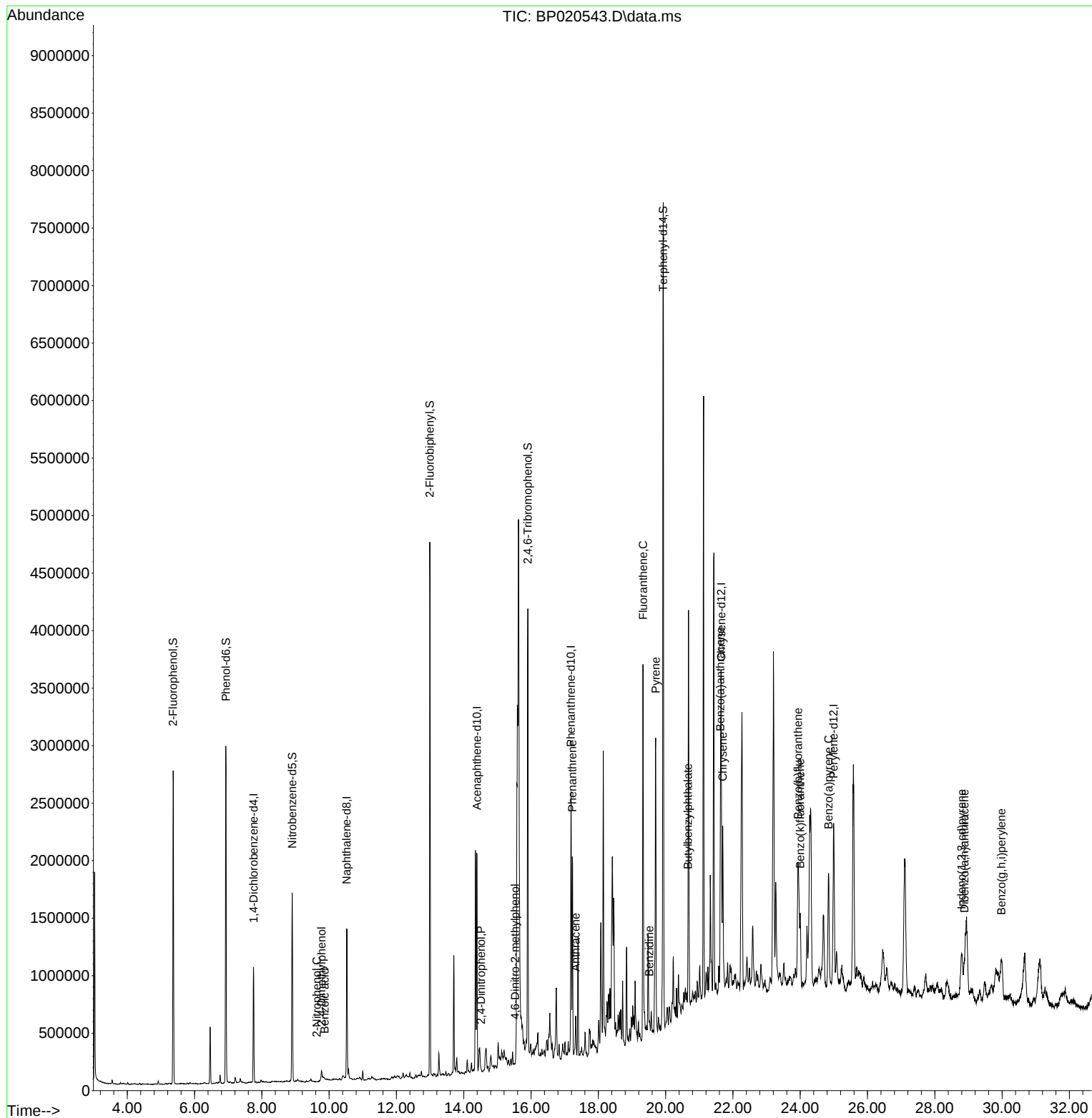
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.752  | 152  | 270532   | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8            | 10.522 | 136  | 1072447  | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.393 | 164  | 680995   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.186 | 188  | 1410462  | 20.000 | ng    | -0.02    |
| 76) Chrysene-d12              | 21.651 | 240  | 1310916  | 20.000 | ng    | -0.02    |
| 86) Perylene-d12              | 24.992 | 264  | 1539217  | 20.000 | ng    | -0.03    |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.364  | 112  | 1214946  | 80.408 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.928  | 99   | 1588078  | 74.528 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.899  | 82   | 980696   | 50.057 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 15.904 | 330  | 684013   | 96.784 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.993 | 172  | 2176697  | 47.649 | ng    | -0.01    |
| 79) Terphenyl-d14             | 19.928 | 244  | 3300036  | 41.907 | ng    | -0.02    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 26) 2-Nitrophenol             | 9.634  | 139  | 193      | 3.814  | ng    | # 1      |
| 27) 2,4-Dimethylphenol        | 9.775  | 122  | 48649    | 4.230  | ng    | # 4      |
| 32) Benzoic acid              | 9.863  | 122  | 1988     | 7.004  | ng    | 88       |
| 54) 2,4-Dinitrophenol         | 14.516 | 184  | 183      | 5.025  | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 15.528 | 198  | 484      | 7.718  | ng    | # 1      |
| 71) Phenanthrene              | 17.228 | 178  | 1026347  | 14.803 | ng    | 99       |
| 72) Anthracene                | 17.328 | 178  | 267810   | 3.936  | ng    | 99       |
| 75) Fluoranthene              | 19.328 | 202  | 2065692  | 25.184 | ng    | 99       |
| 77) Benzidine                 | 19.516 | 184  | 268      | 5.976  | ng    | # 1      |
| 78) Pyrene                    | 19.704 | 202  | 1871603  | 18.981 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.663 | 149  | 12103    | 2.720  | ng    | # 73     |
| 81) Benzo(a)anthracene        | 21.627 | 228  | 1103759  | 12.787 | ng    | 96       |
| 83) Chrysene                  | 21.698 | 228  | 1033146  | 12.703 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.798 | 276  | 759613   | 8.116  | ng    | # 90     |
| 88) Benzo(b)fluoranthene      | 23.933 | 252  | 1441227  | 15.030 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.998 | 252  | 451217   | 4.825  | ng    | 95       |
| 90) Benzo(a)pyrene            | 24.845 | 252  | 1053021  | 13.260 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 28.880 | 278  | 190862   | 2.445  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene      | 29.974 | 276  | 713782   | 9.147  | ng    | 97       |
| -----                         |        |      |          |        |       |          |

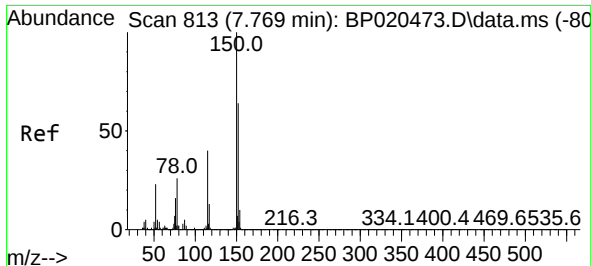
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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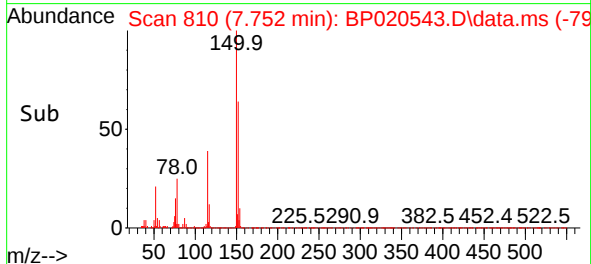
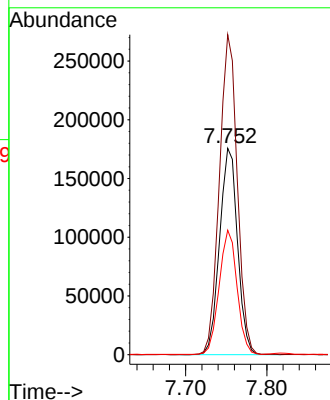
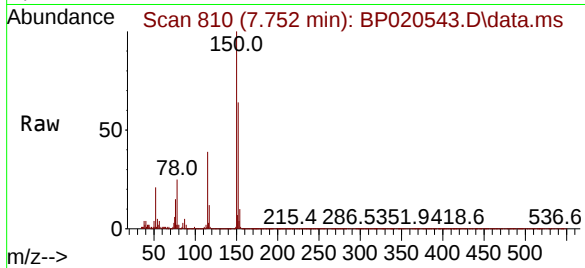




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.752 min Scan# 81  
Delta R.T. -0.017 min  
Lab File: BP020543.D  
Acq: 06 Jun 2024 16:02

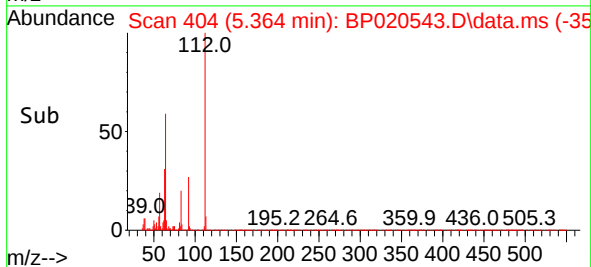
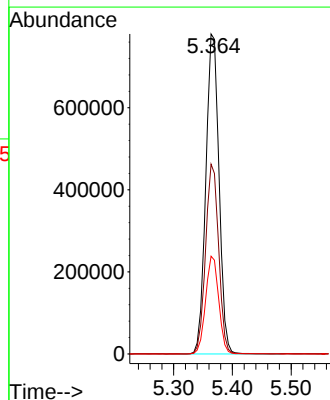
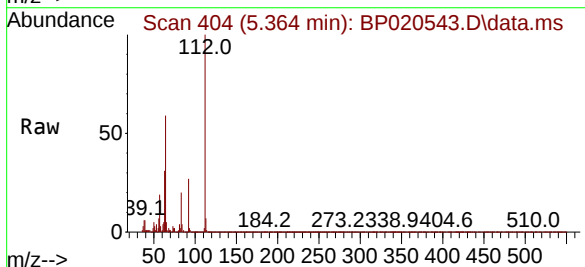
Instrument :  
BNA\_P  
ClientSampleId :  
WC-4

Tgt Ion:152 Resp: 270532  
Ion Ratio Lower Upper  
152 100  
150 155.1 124.2 186.2  
115 60.4 49.5 74.3



#5  
2-Fluorophenol  
Concen: 80.408 ng  
RT: 5.364 min Scan# 404  
Delta R.T. -0.012 min  
Lab File: BP020543.D  
Acq: 06 Jun 2024 16:02

Tgt Ion:112 Resp: 1214946  
Ion Ratio Lower Upper  
112 100  
64 59.3 50.1 75.1  
63 30.6 25.7 38.5





#7

Phenol-d6

Concen: 74.528 ng

RT: 6.928 min Scan# 61

Delta R.T. -0.006 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

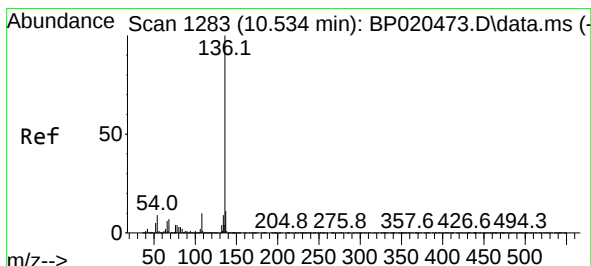
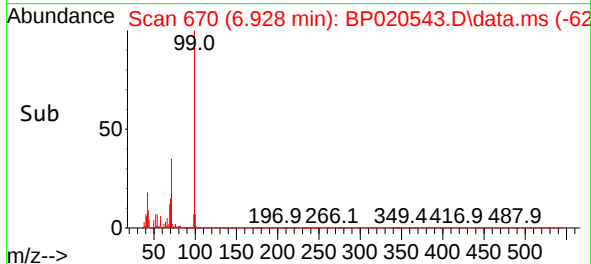
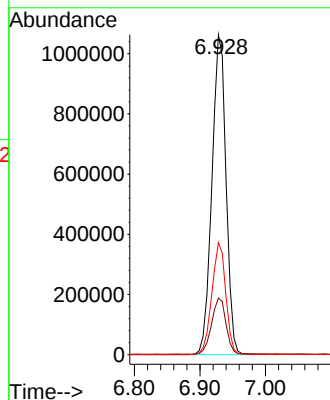
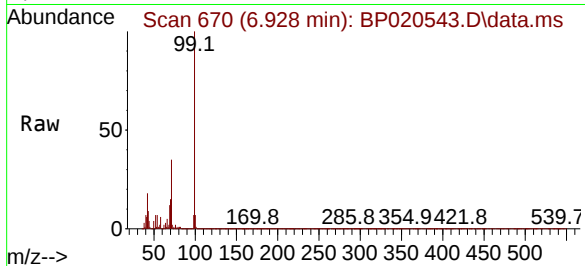
BNA\_P

ClientSampleId :

WC-4

Tgt Ion: 99 Resp: 1588078

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.7  | 15.0  | 22.4  |
| 71  | 35.1  | 27.3  | 40.9  |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.522 min Scan# 1281

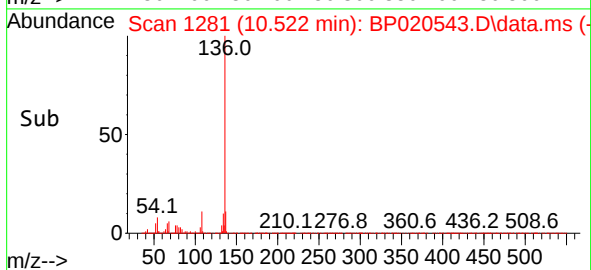
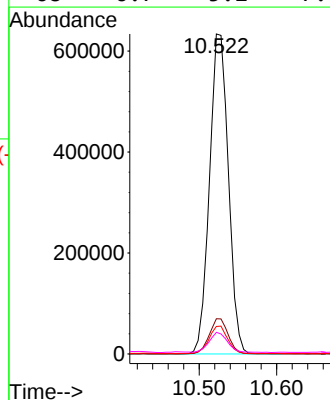
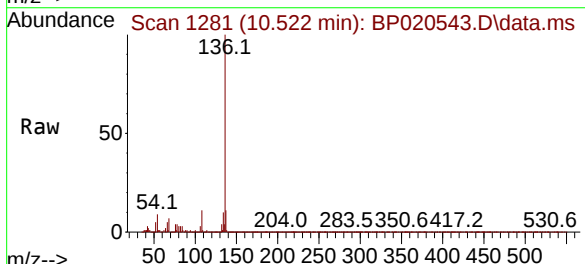
Delta R.T. -0.012 min

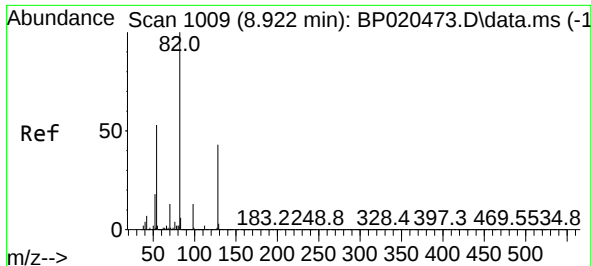
Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Tgt Ion:136 Resp: 1072447

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 9.0   | 13.4  |
| 54  | 8.6   | 7.4   | 11.0  |
| 68  | 6.7   | 5.2   | 7.8   |

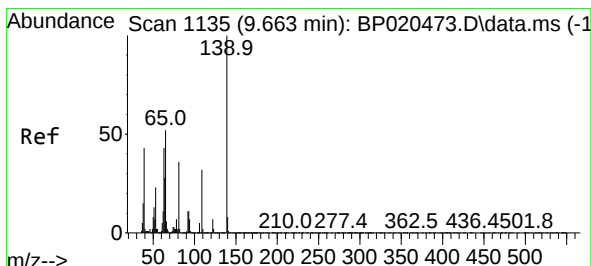
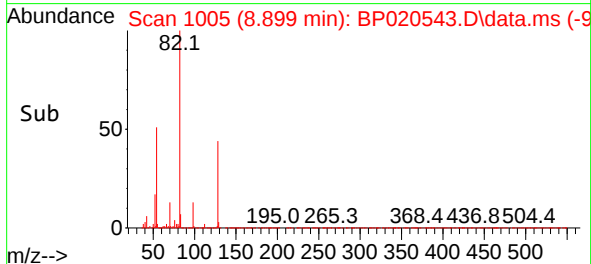
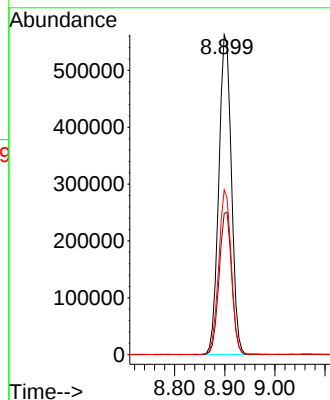
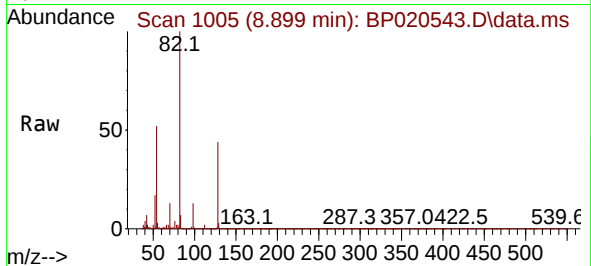




#23  
Nitrobenzene-d5  
Concen: 50.057 ng  
RT: 8.899 min Scan# 1005  
Delta R.T. -0.023 min  
Lab File: BP020543.D  
Acq: 06 Jun 2024 16:02

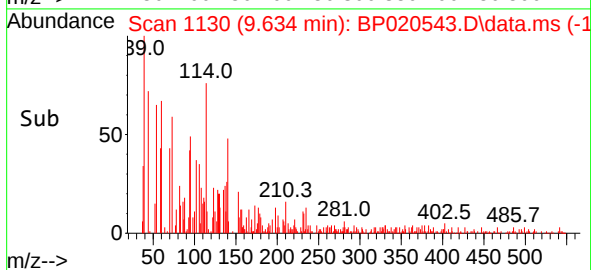
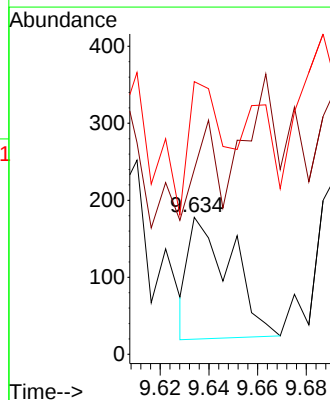
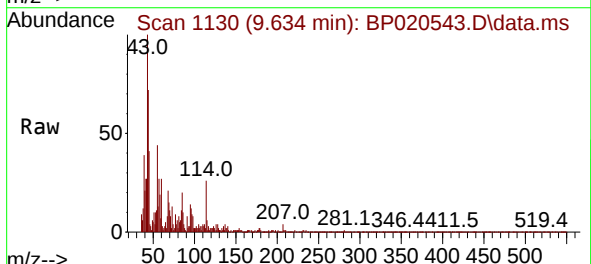
Instrument :  
BNA\_P  
ClientSampleId :  
WC-4

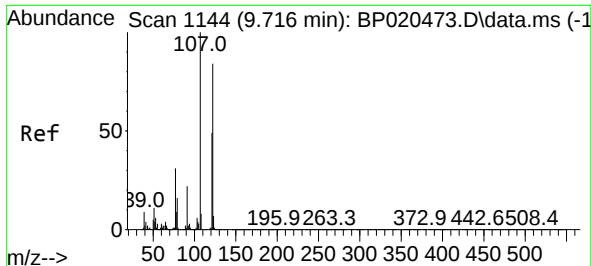
Tgt Ion: 82 Resp: 980696  
Ion Ratio Lower Upper  
82 100  
128 44.1 34.2 51.4  
54 51.5 42.7 64.1



#26  
2-Nitrophenol  
Concen: 3.814 ng  
RT: 9.634 min Scan# 1130  
Delta R.T. -0.029 min  
Lab File: BP020543.D  
Acq: 06 Jun 2024 16:02

Tgt Ion:139 Resp: 193  
Ion Ratio Lower Upper  
139 100  
109 134.8 25.8 38.8#  
65 198.9 41.8 62.8#





#27

2,4-Dimethylphenol

Concen: 4.230 ng

RT: 9.775 min Scan# 1144

Delta R.T. 0.059 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

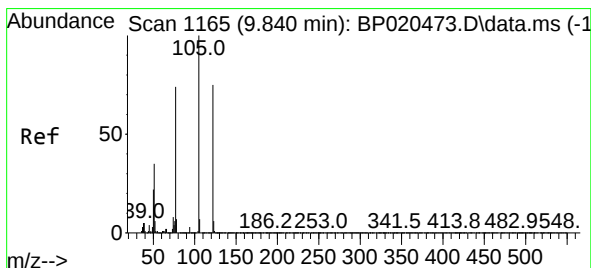
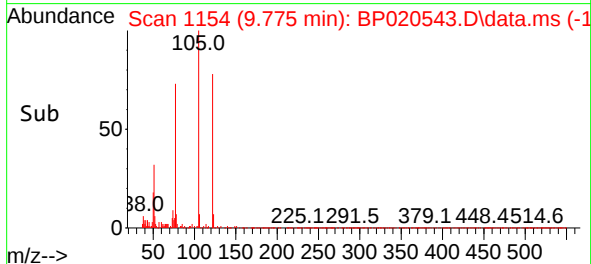
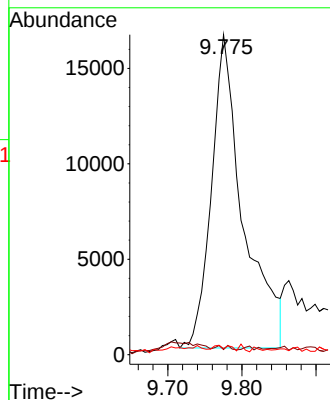
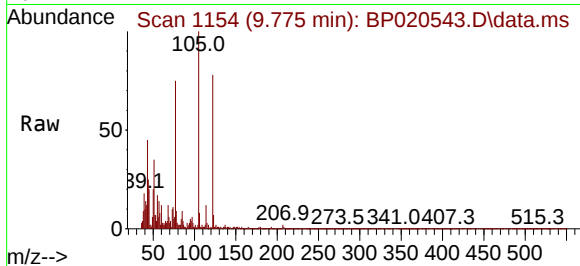
Tgt Ion:122 Resp: 48649

Ion Ratio Lower Upper

122 100

107 1.6 95.0 142.4#

121 1.9 46.1 69.1#



#32

Benzoic acid

Concen: 7.004 ng

RT: 9.863 min Scan# 1169

Delta R.T. 0.023 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

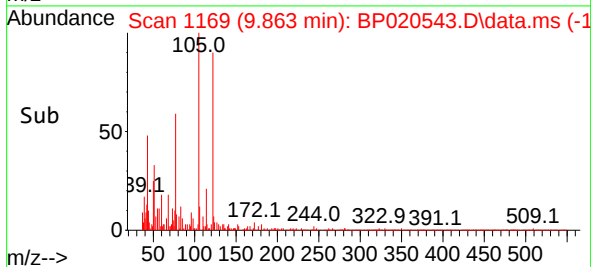
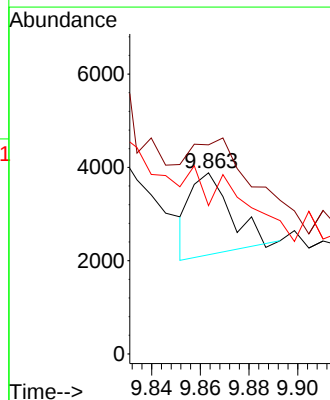
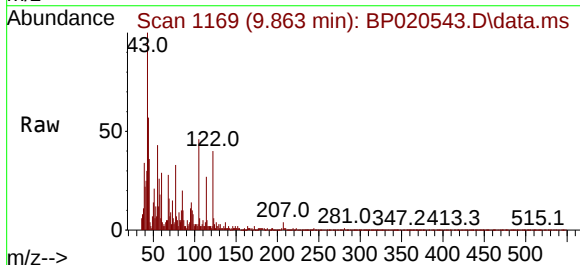
Tgt Ion:122 Resp: 1988

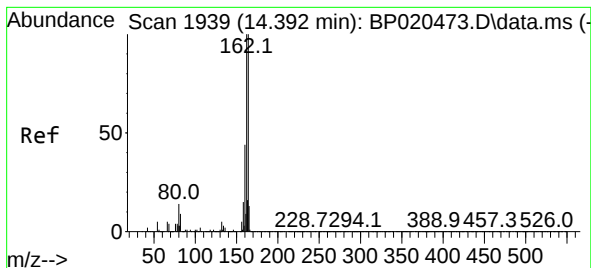
Ion Ratio Lower Upper

122 100

105 115.4 107.5 147.5

77 81.8 76.1 116.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.393 min Scan# 1939

Delta R.T. 0.001 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

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ClientSampleId :

WC-4

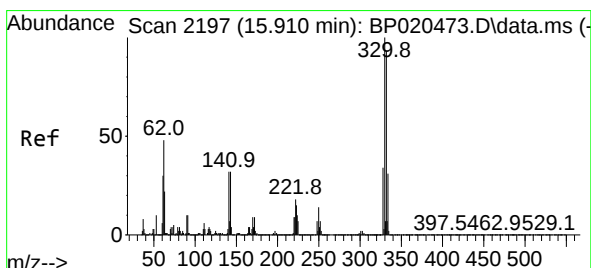
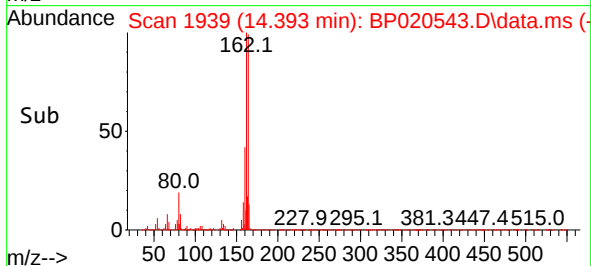
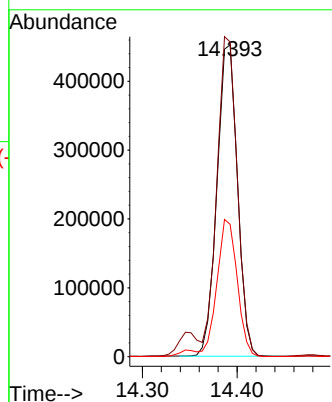
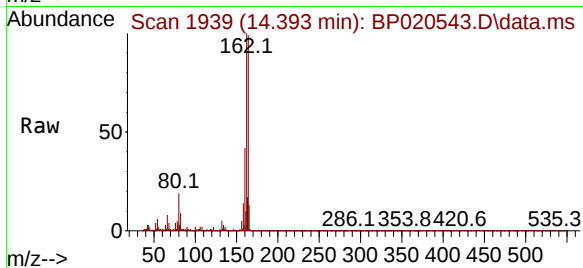
Tgt Ion:164 Resp: 680995

Ion Ratio Lower Upper

164 100

162 100.9 80.3 120.5

160 42.4 35.4 53.2



#42

2,4,6-Tribromophenol

Concen: 96.784 ng

RT: 15.904 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

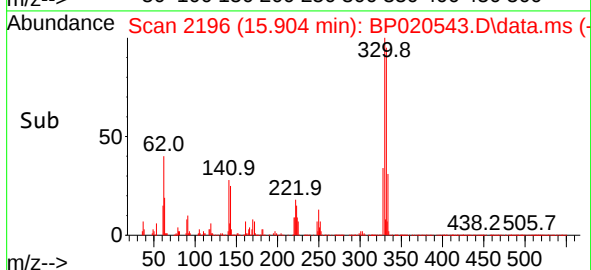
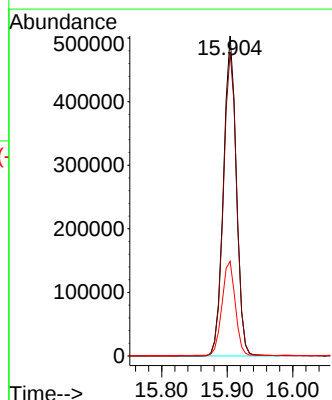
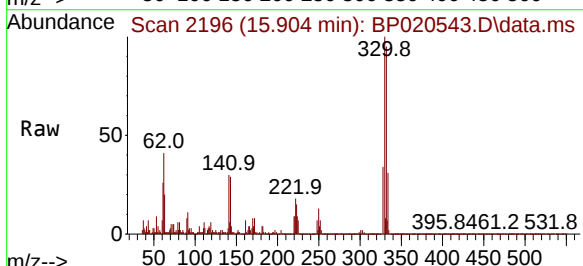
Tgt Ion:330 Resp: 684013

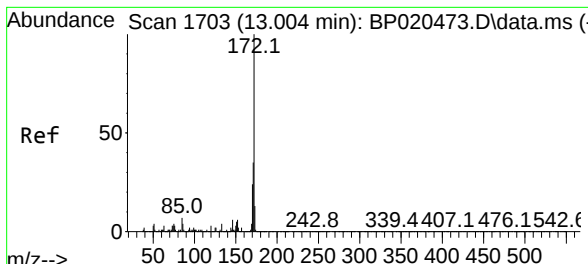
Ion Ratio Lower Upper

330 100

332 97.0 76.6 114.8

141 30.2 27.1 40.7



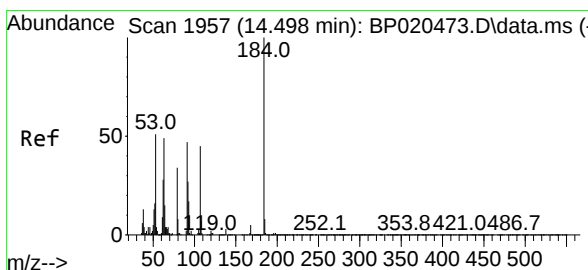
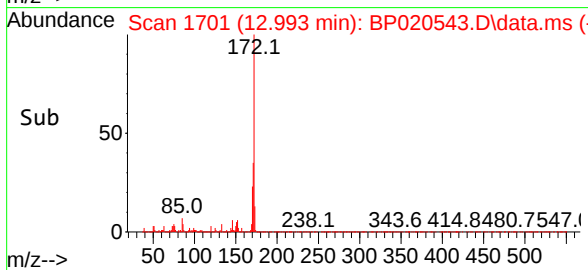
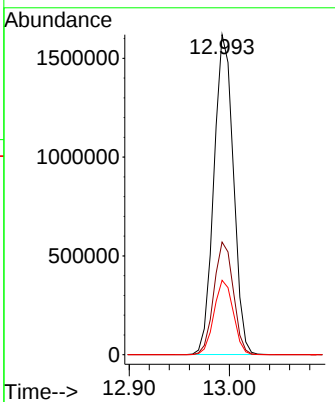
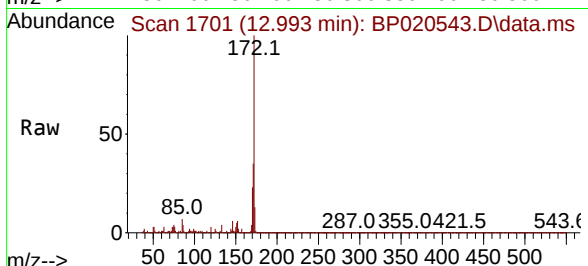


#45  
 2-Fluorobiphenyl  
 Concen: 47.649 ng  
 RT: 12.993 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BP020543.D  
 Acq: 06 Jun 2024 16:02

Instrument :  
 BNA\_P  
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 WC-4

Tgt Ion:172 Resp: 2176697

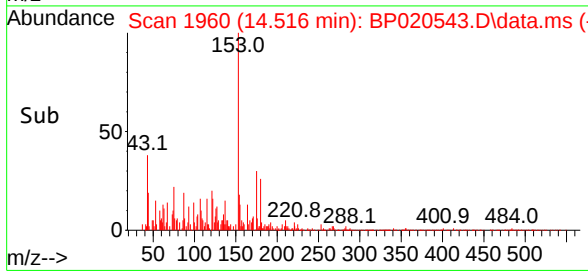
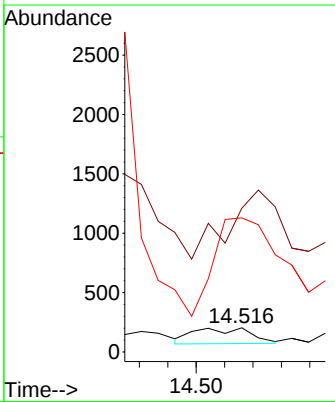
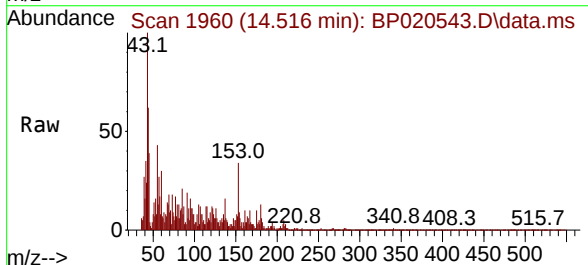
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.2  | 28.4  | 42.6  |
| 170 | 23.3  | 18.9  | 28.3  |

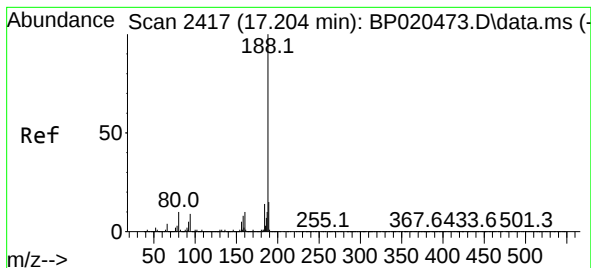


#54  
 2,4-Dinitrophenol  
 Concen: 5.025 ng  
 RT: 14.516 min Scan# 1960  
 Delta R.T. 0.018 min  
 Lab File: BP020543.D  
 Acq: 06 Jun 2024 16:02

Tgt Ion:184 Resp: 183

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 184 | 100   |       |       |
| 63  | 593.1 | 54.2  | 81.4# |
| 154 | 553.4 | 51.0  | 76.6# |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.186 min Scan# 2417

Delta R.T. -0.018 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

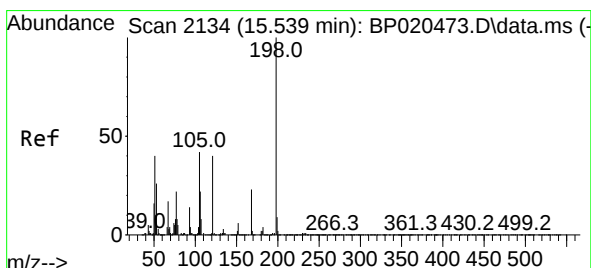
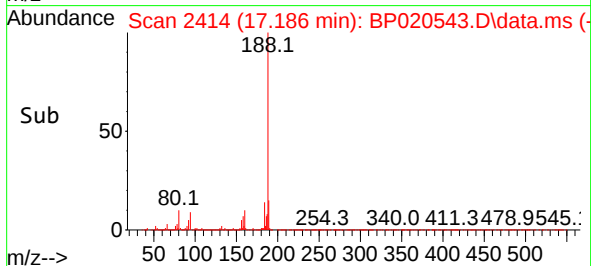
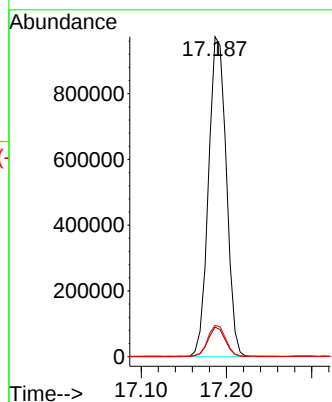
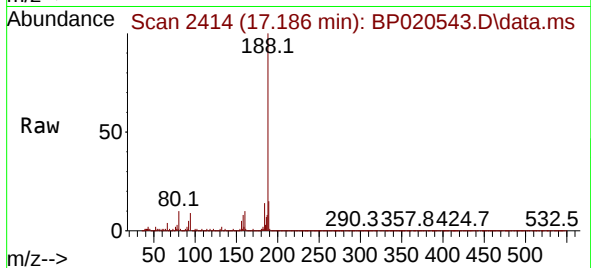
Tgt Ion:188 Resp: 1410462

Ion Ratio Lower Upper

188 100

94 9.2 7.2 10.8

80 9.8 8.1 12.1



#65

4,6-Dinitro-2-methylphenol

Concen: 7.718 ng

RT: 15.528 min Scan# 2132

Delta R.T. -0.011 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

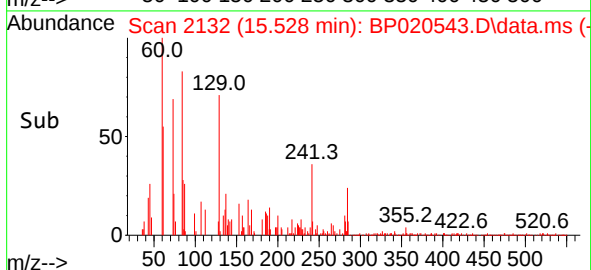
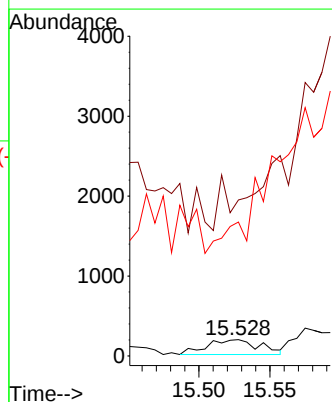
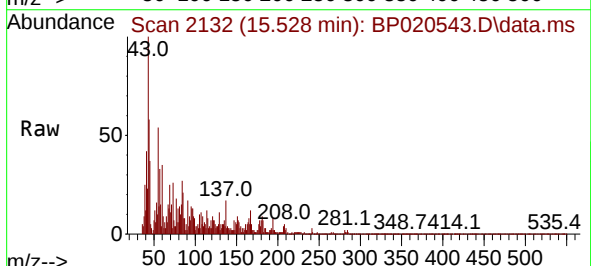
Tgt Ion:198 Resp: 484

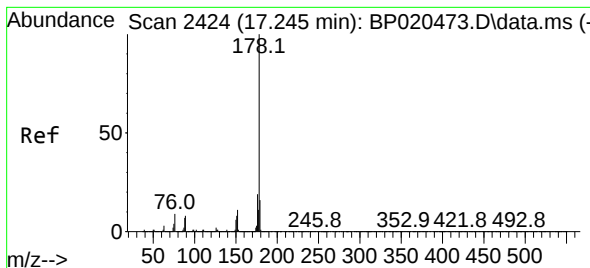
Ion Ratio Lower Upper

198 100

51 952.7 24.8 64.8#

105 817.1 23.2 63.2#





#71

Phenanthrene

Concen: 14.803 ng

RT: 17.228 min Scan# 2421

Delta R.T. -0.018 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

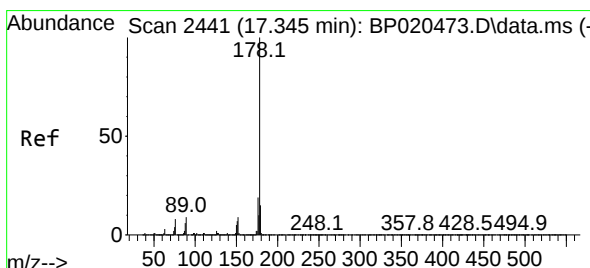
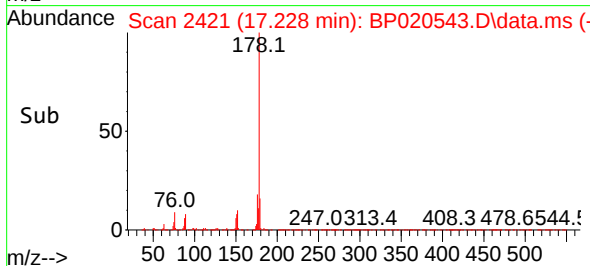
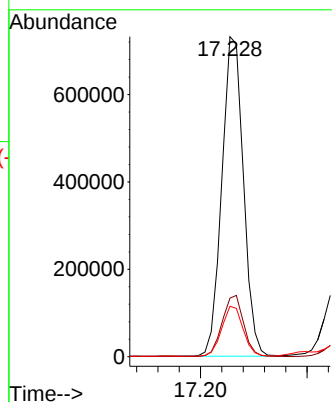
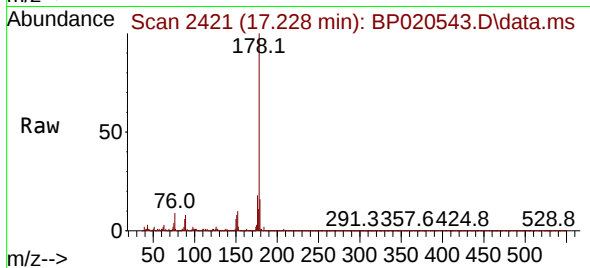
Tgt Ion:178 Resp: 1026347

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

179 15.8 12.5 18.7



#72

Anthracene

Concen: 3.936 ng

RT: 17.328 min Scan# 2438

Delta R.T. -0.018 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

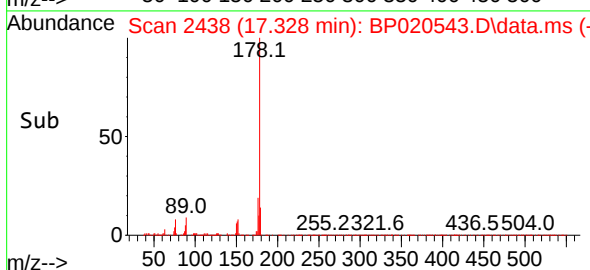
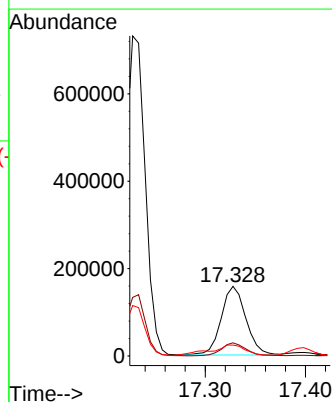
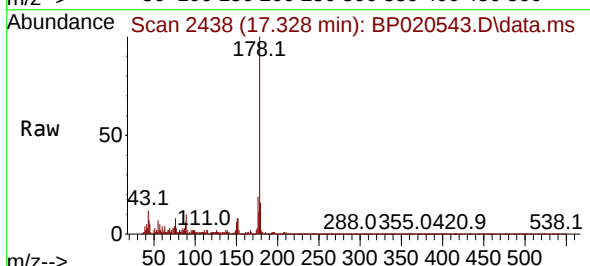
Tgt Ion:178 Resp: 267810

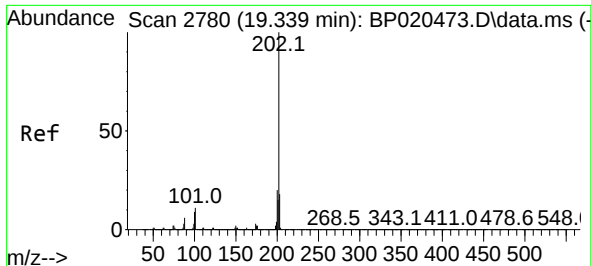
Ion Ratio Lower Upper

178 100

176 18.9 14.8 22.2

179 15.6 12.2 18.4

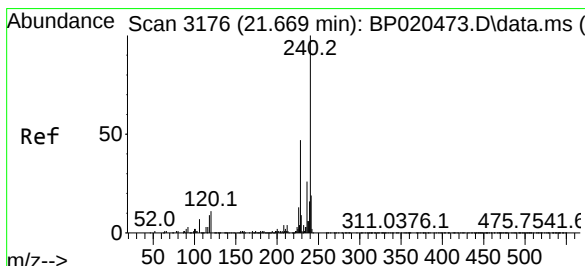
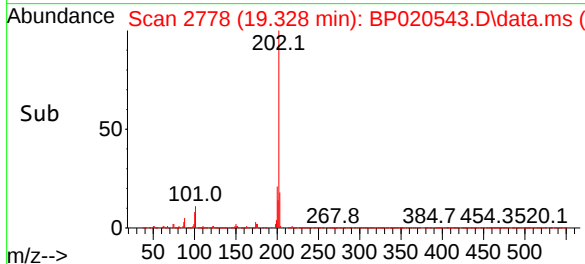
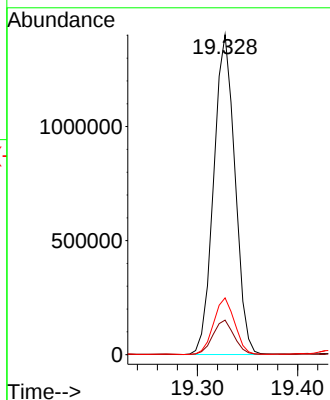
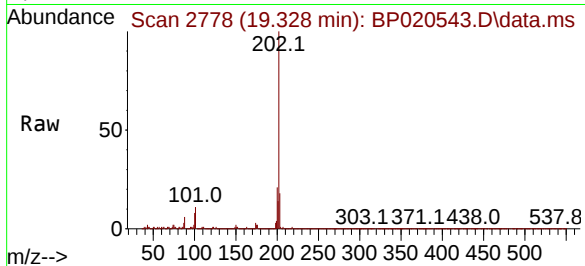




#75  
Fluoranthene  
Concen: 25.184 ng  
RT: 19.328 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BP020543.D  
Acq: 06 Jun 2024 16:02

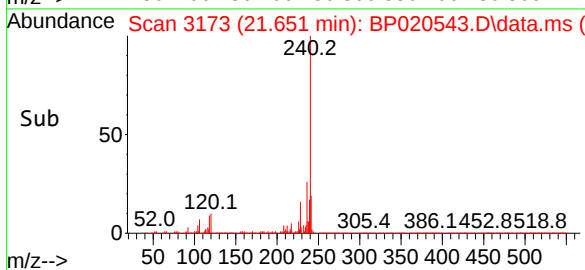
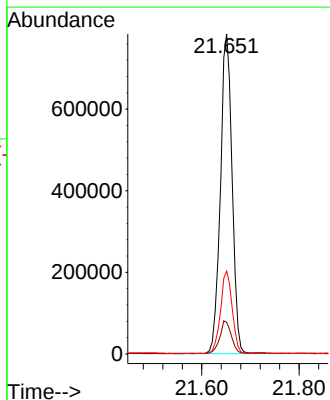
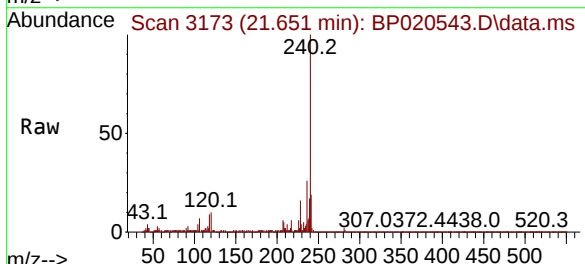
Instrument :  
BNA\_P  
ClientSampleId :  
WC-4

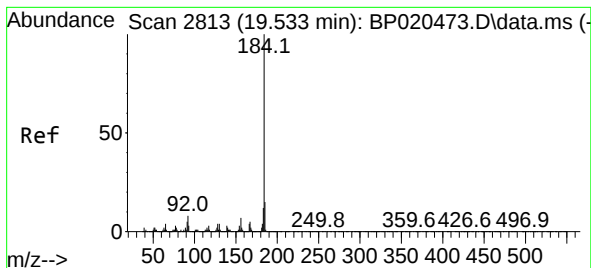
Tgt Ion:202 Resp: 2065692  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 31.4  
203 17.7 0.0 37.7



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.651 min Scan# 3173  
Delta R.T. -0.018 min  
Lab File: BP020543.D  
Acq: 06 Jun 2024 16:02

Tgt Ion:240 Resp: 1310916  
Ion Ratio Lower Upper  
240 100  
120 9.9 8.5 12.7  
236 25.9 20.5 30.7





#77

Benzidine

Concen: 5.976 ng

RT: 19.516 min Scan# 2810

Delta R.T. -0.017 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

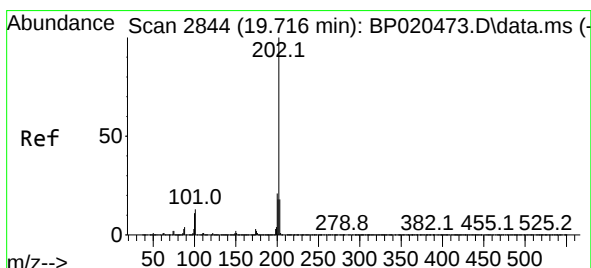
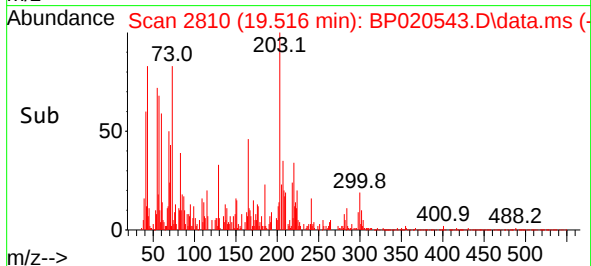
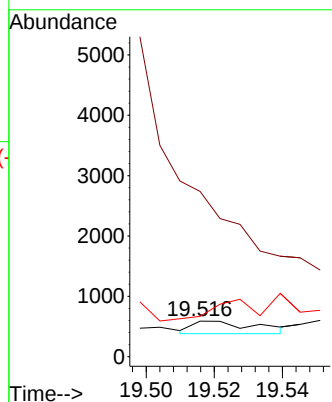
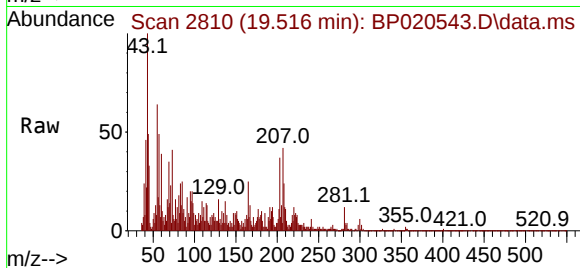
Tgt Ion:184 Resp: 268

Ion Ratio Lower Upper

184 100

185 466.0 12.0 18.0#

183 113.6 9.4 14.0#



#78

Pyrene

Concen: 18.981 ng

RT: 19.704 min Scan# 2842

Delta R.T. -0.012 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

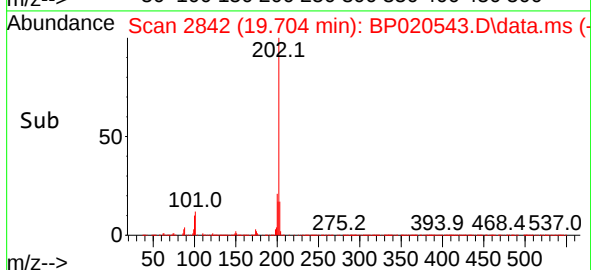
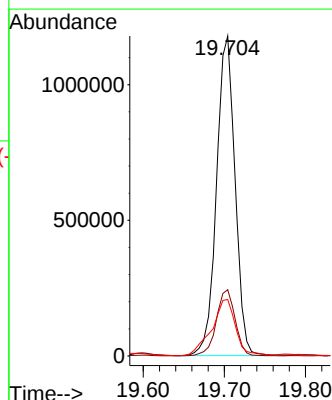
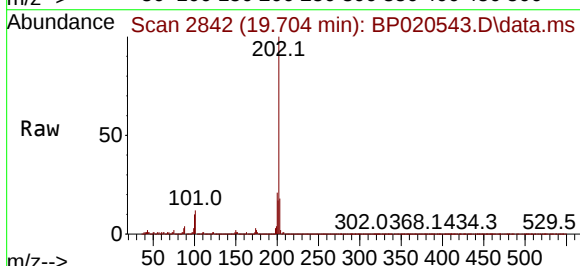
Tgt Ion:202 Resp: 1871603

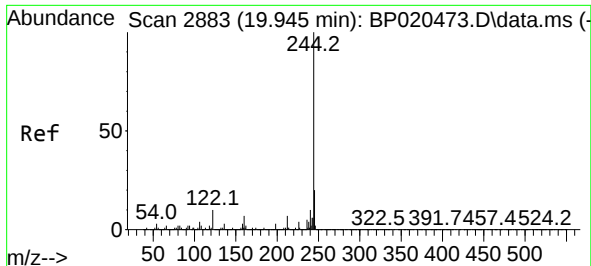
Ion Ratio Lower Upper

202 100

200 20.7 16.9 25.3

203 17.7 14.1 21.1

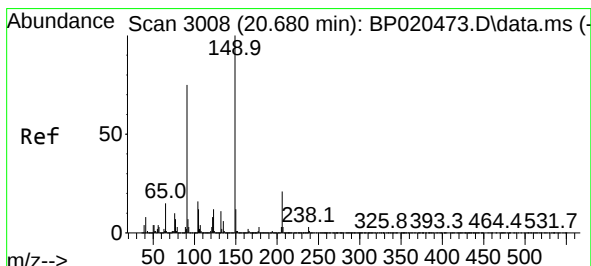
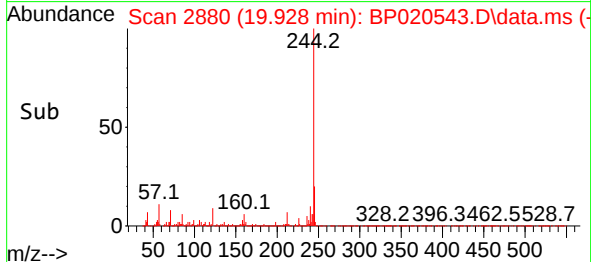
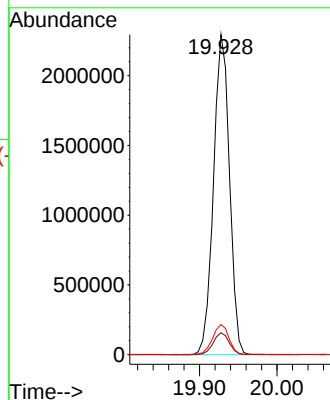
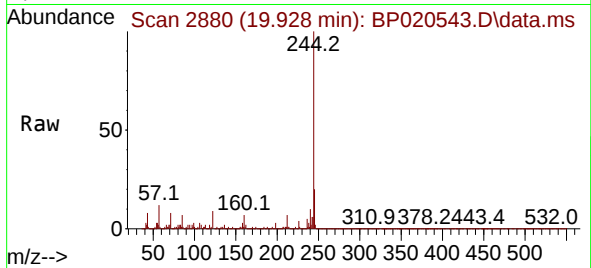




#79  
 Terphenyl-d14  
 Concen: 41.907 ng  
 RT: 19.928 min Scan# 21  
 Delta R.T. -0.017 min  
 Lab File: BP020543.D  
 Acq: 06 Jun 2024 16:02

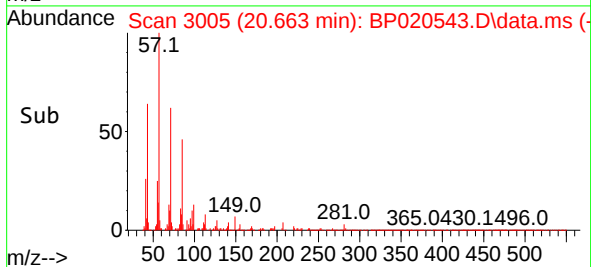
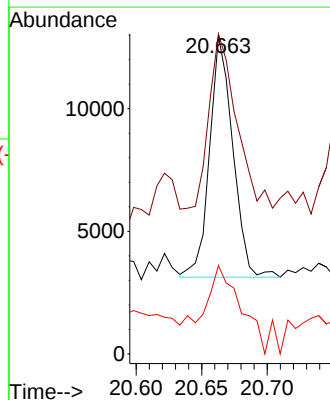
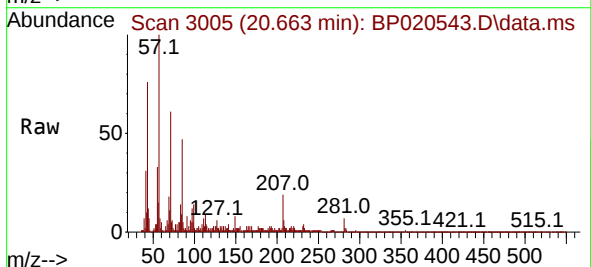
Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-4

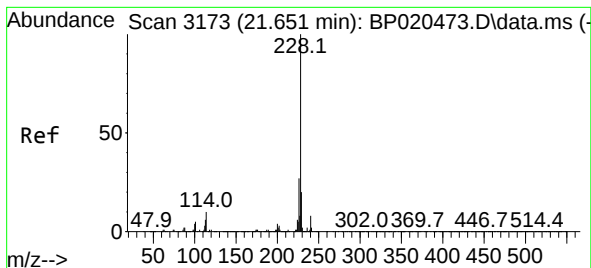
Tgt Ion:244 Resp: 3300036  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.8 8.8  
 122 9.4 8.2 12.2



#80  
 Butylbenzylphthalate  
 Concen: 2.720 ng  
 RT: 20.663 min Scan# 3005  
 Delta R.T. -0.017 min  
 Lab File: BP020543.D  
 Acq: 06 Jun 2024 16:02

Tgt Ion:149 Resp: 12103  
 Ion Ratio Lower Upper  
 149 100  
 91 100.6 60.0 90.0#  
 206 27.8 16.6 25.0#





#81

Benzo(a)anthracene

Concen: 12.787 ng

RT: 21.627 min Scan# 3169

Delta R.T. -0.023 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

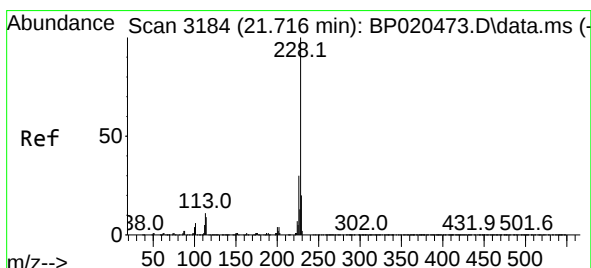
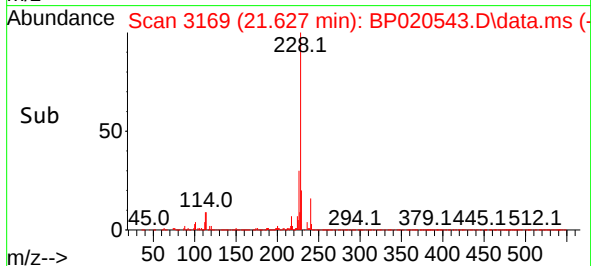
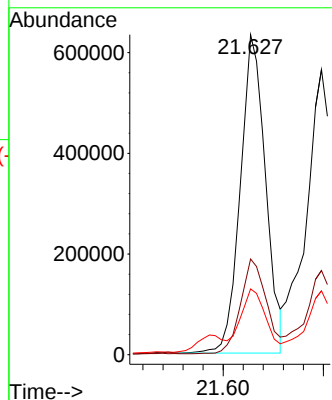
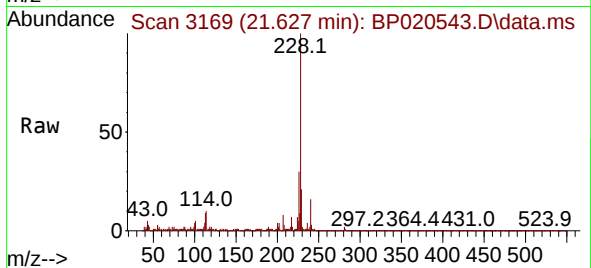
Tgt Ion:228 Resp: 1103759

Ion Ratio Lower Upper

228 100

226 29.9 21.7 32.5

229 20.6 15.8 23.6



#83

Chrysene

Concen: 12.703 ng

RT: 21.698 min Scan# 3181

Delta R.T. -0.018 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

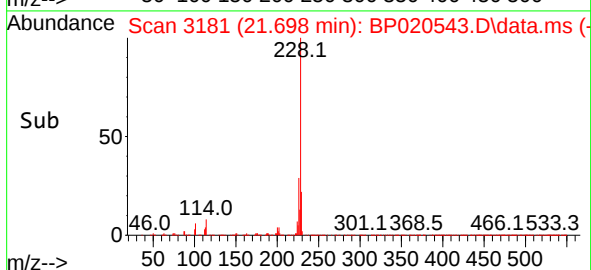
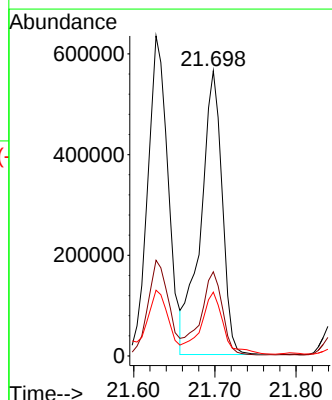
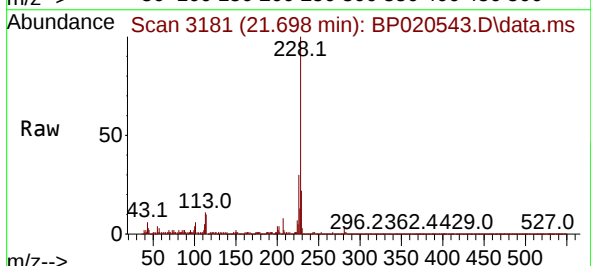
Tgt Ion:228 Resp: 1033146

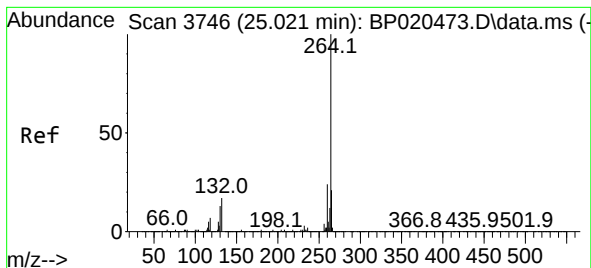
Ion Ratio Lower Upper

228 100

226 29.5 24.0 36.0

229 22.4 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.992 min Scan# 31

Delta R.T. -0.029 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

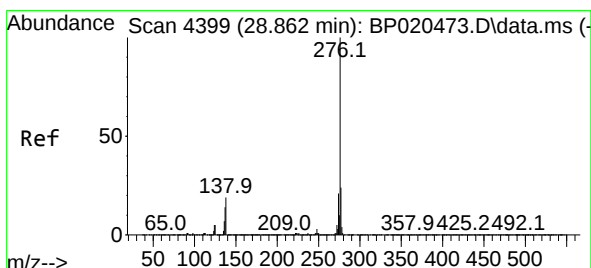
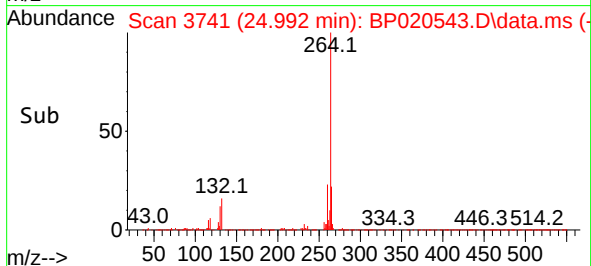
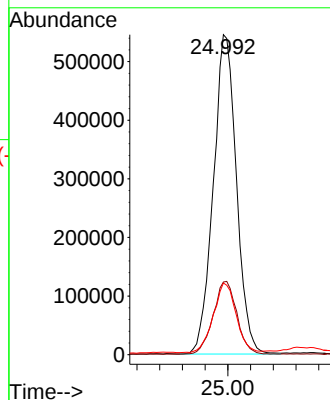
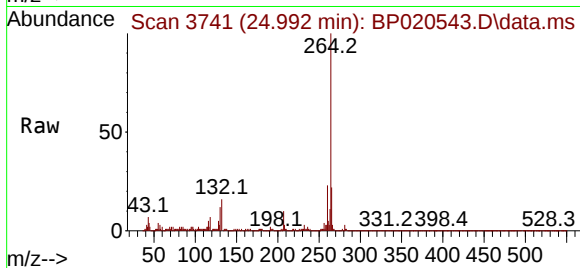
Tgt Ion:264 Resp: 1539217

Ion Ratio Lower Upper

264 100

260 22.7 18.9 28.3

265 22.4 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.116 ng

RT: 28.798 min Scan# 4388

Delta R.T. -0.065 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

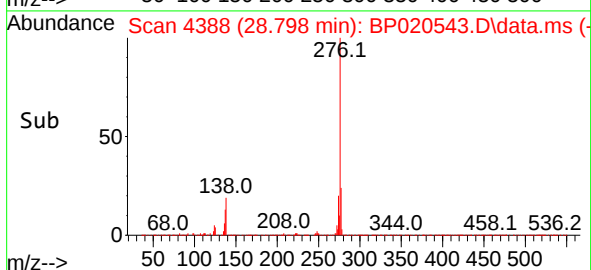
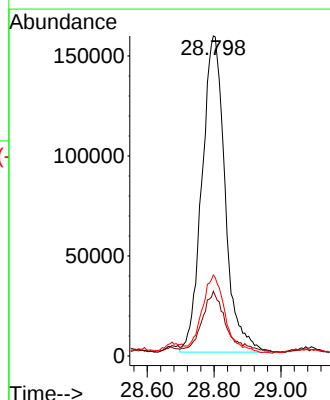
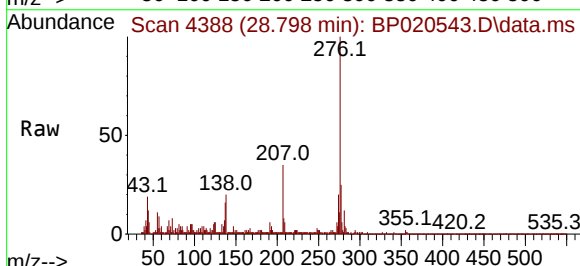
Tgt Ion:276 Resp: 759613

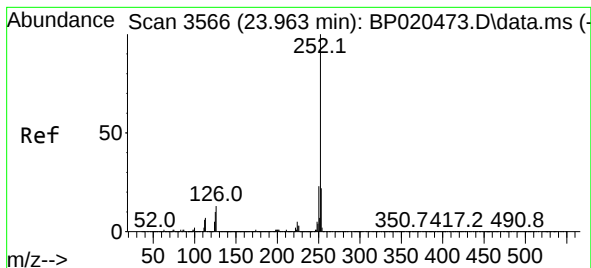
Ion Ratio Lower Upper

276 100

138 20.0 12.8 19.2#

277 24.2 15.6 23.4#





#88

Benzo(b)fluoranthene

Concen: 15.030 ng

RT: 23.933 min Scan# 3561

Delta R.T. -0.029 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

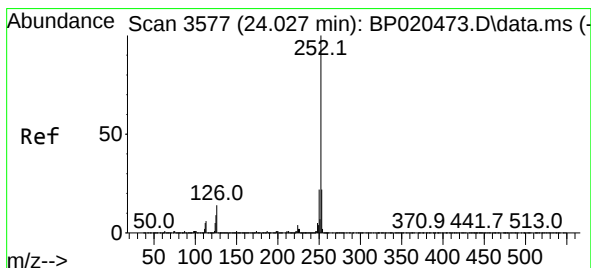
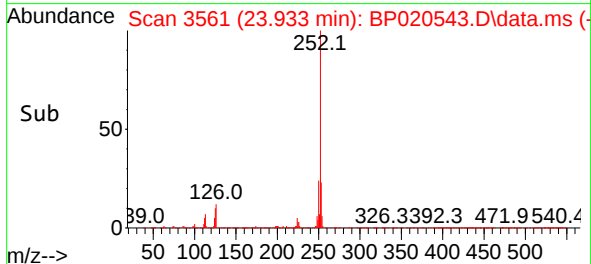
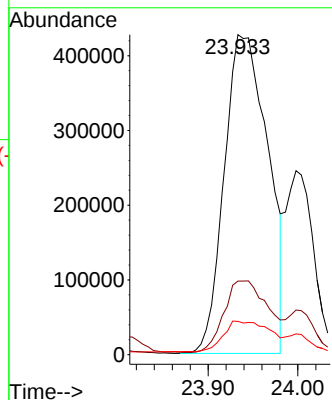
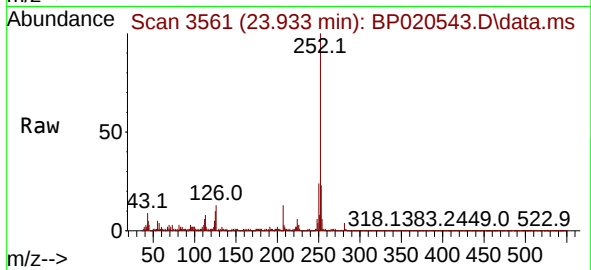
Tgt Ion:252 Resp: 1441227

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

125 10.4 8.0 12.0



#89

Benzo(k)fluoranthene

Concen: 4.825 ng

RT: 23.998 min Scan# 3572

Delta R.T. -0.029 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

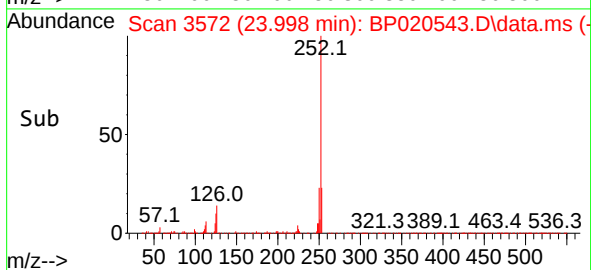
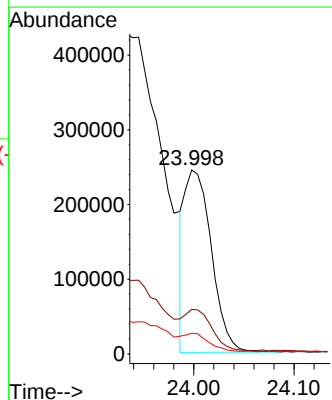
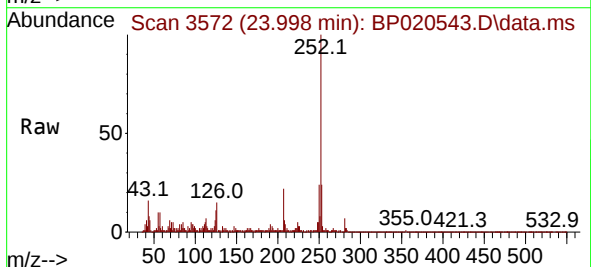
Tgt Ion:252 Resp: 451217

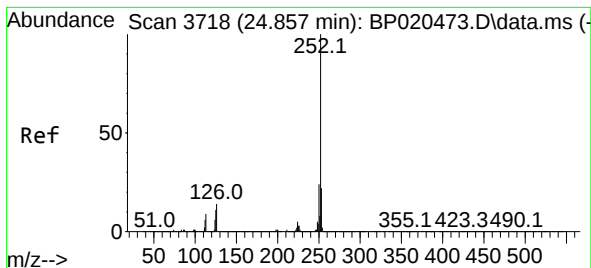
Ion Ratio Lower Upper

252 100

253 24.3 17.7 26.5

125 11.3 7.8 11.6





#90

Benzo(a)pyrene

Concen: 13.260 ng

RT: 24.845 min Scan# 31

Delta R.T. -0.012 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4

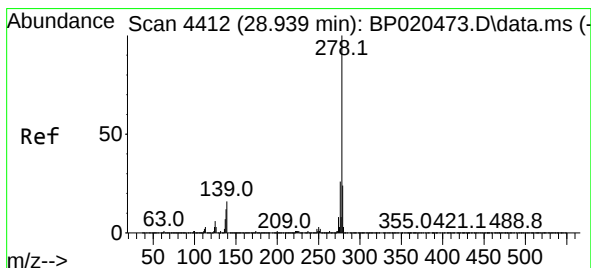
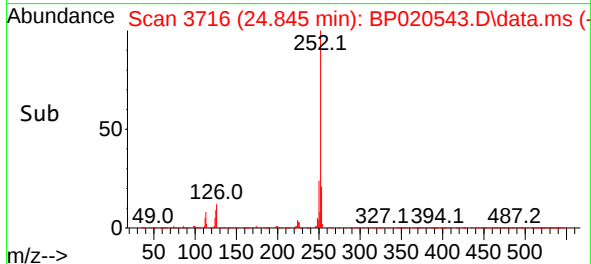
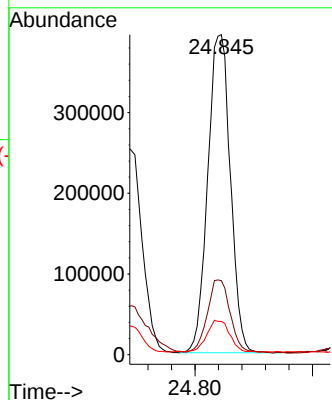
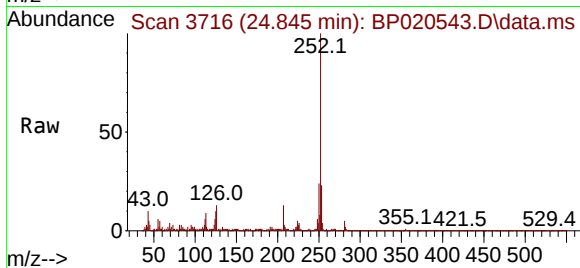
Tgt Ion:252 Resp: 1053021

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.2

125 10.4 8.9 13.3



#91

Dibenzo(a,h)anthracene

Concen: 2.445 ng

RT: 28.880 min Scan# 4402

Delta R.T. -0.059 min

Lab File: BP020543.D

Acq: 06 Jun 2024 16:02

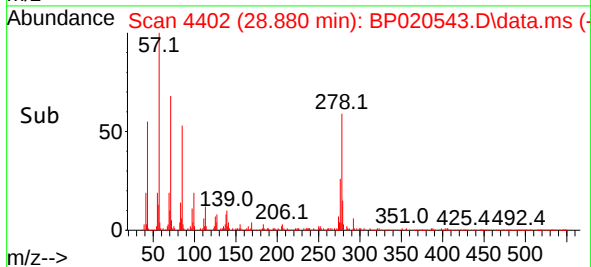
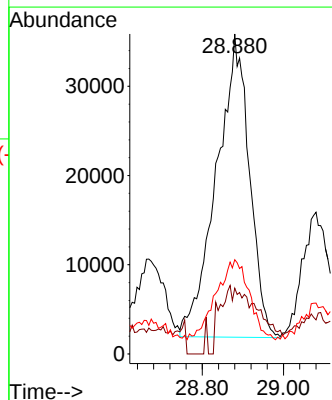
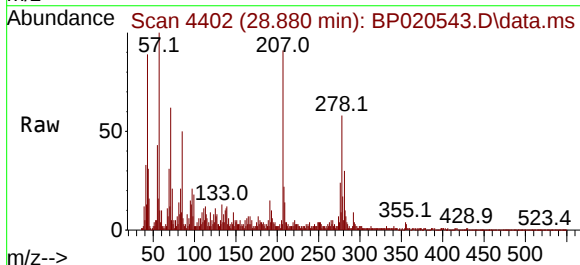
Tgt Ion:278 Resp: 190862

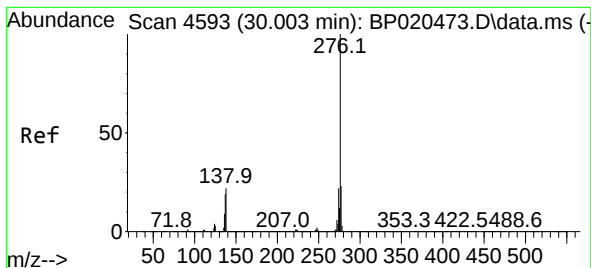
Ion Ratio Lower Upper

278 100

139 20.5 13.0 19.4#

279 29.4 19.2 28.8#





#92

Benzo(g,h,i)perylene

Concen: 9.147 ng

RT: 29.974 min Scan# 4

Delta R.T. -0.029 min

Lab File: BP020543.D

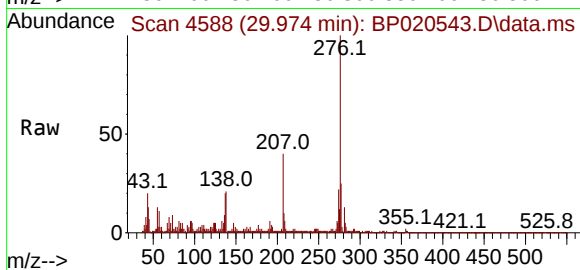
Acq: 06 Jun 2024 16:02

Instrument :

BNA\_P

ClientSampleId :

WC-4



Tgt Ion:276 Resp: 713782

Ion Ratio Lower Upper

276 100

277 25.1 18.7 28.1

138 20.7 17.7 26.5

