

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM110123\  
 Data File : BM042543.D  
 Acq On : 01 Nov 2023 17:12  
 Operator : MA/JU  
 Sample : 05145-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TR-06-10272023

Quant Time: Nov 01 18:12:48 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM103023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 31 02:55:18 2023  
 Response via : Initial Calibration

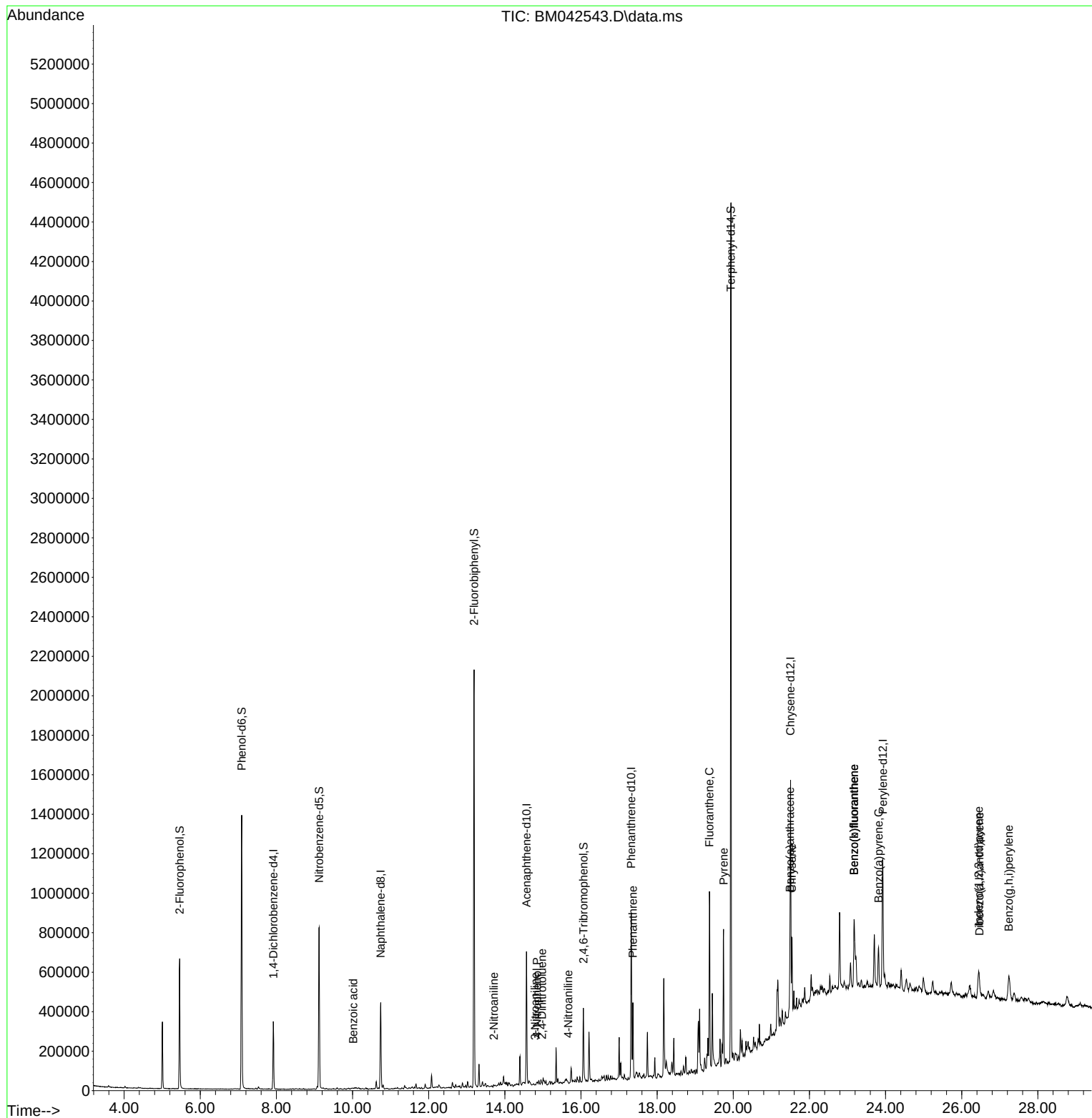
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.922  | 152  | 79139    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.739 | 136  | 317074   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.568 | 164  | 197652   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.321 | 188  | 451596   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.503 | 240  | 446188   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.927 | 264  | 498906   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.457  | 112  | 240039   | 48.951 | ng    | 0.00     |
| 7) Phenol-d6                | 7.087  | 99   | 648302   | 96.400 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.122  | 82   | 446828   | 65.693 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.062 | 330  | 55558    | 21.530 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.192 | 172  | 954248   | 64.964 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.939 | 244  | 1849323  | 70.278 | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 10.016 | 122  | 1494     | 4.476  | ng    | 96       |
| 48) 2-Nitroaniline          | 13.710 | 65   | 471      | 4.446  | ng    | # 13     |
| 53) 3-Nitroaniline          | 14.792 | 138  | 56       | 4.367  | ng    | # 73     |
| 56) 4-Nitrophenol           | 14.845 | 139  | 66       | 6.975  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene      | 14.980 | 165  | 68       | 3.985  | ng    | # 27     |
| 62) 4-Nitroaniline          | 15.668 | 138  | 56       | 5.755  | ng    | # 16     |
| 71) Phenanthrene            | 17.362 | 178  | 200520   | 8.497  | ng    | 99       |
| 75) Fluoranthene            | 19.374 | 202  | 485403   | 17.510 | ng    | 99       |
| 78) Pyrene                  | 19.745 | 202  | 391592   | 12.781 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.486 | 228  | 167919   | 5.915  | ng    | 98       |
| 83) Chrysene                | 21.539 | 228  | 217580   | 7.545  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.444 | 276  | 131142   | 4.416  | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 23.174 | 252  | 293312   | 10.553 | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.174 | 252  | 293312   | 9.470  | ng    | 99       |
| 90) Benzo(a)pyrene          | 23.815 | 252  | 154712   | 5.654  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 26.468 | 278  | 34929    | 5.302  | ng    | # 87     |
| 92) Benzo(g,h,i)perylene    | 27.238 | 276  | 137919   | 5.270  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

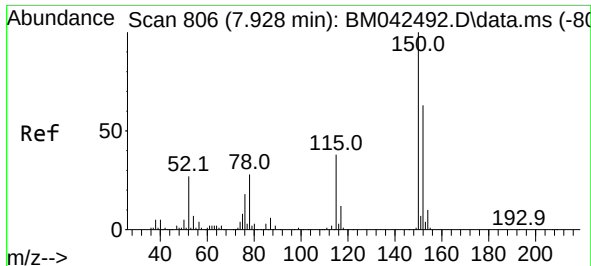
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM110123\  
Data File : BM042543.D  
Acq On : 01 Nov 2023 17:12  
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Sample : 05145-01  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

Quant Time: Nov 01 18:12:48 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 31 02:55:18 2023  
Response via : Initial Calibration

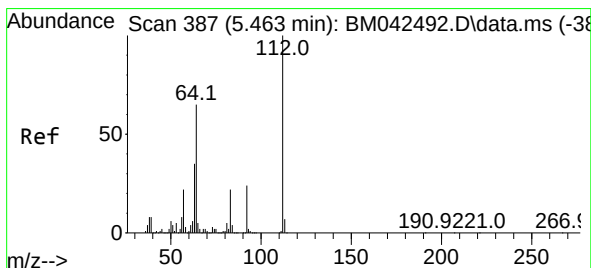
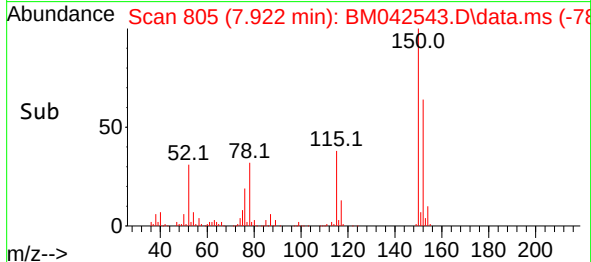
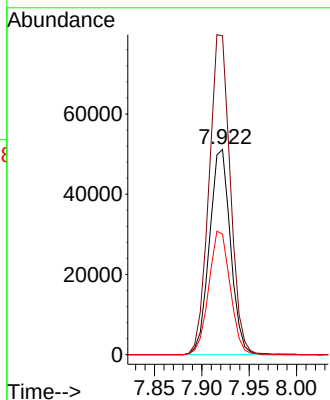
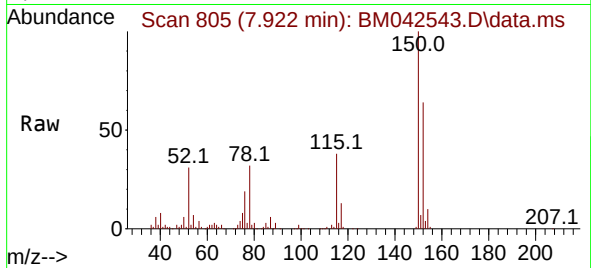




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.922 min Scan# 806  
Delta R.T. -0.006 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

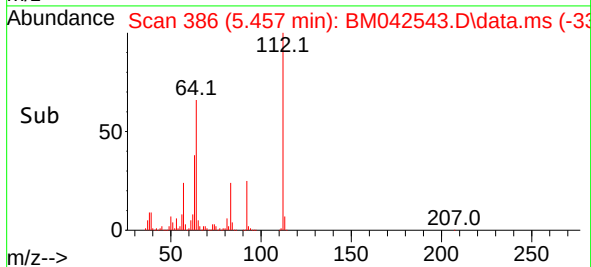
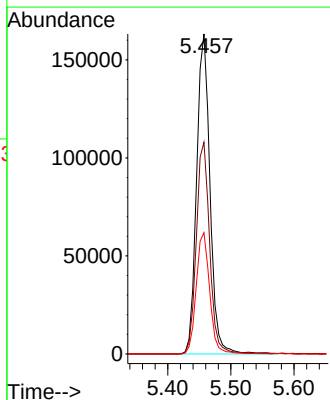
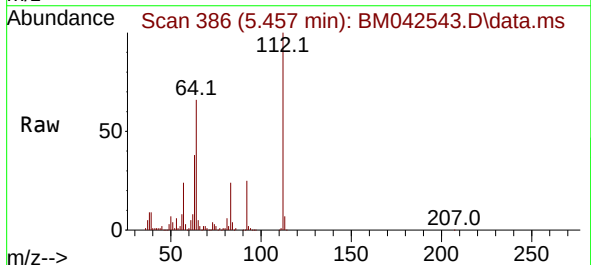
Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

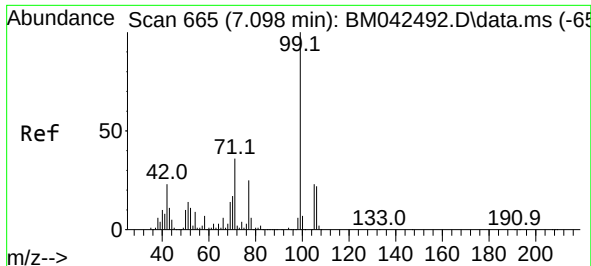
Tgt Ion:152 Resp: 79139  
Ion Ratio Lower Upper  
152 100  
150 155.3 127.4 191.0  
115 58.7 47.9 71.9



#5  
2-Fluorophenol  
Concen: 48.951 ng  
RT: 5.457 min Scan# 386  
Delta R.T. -0.006 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion:112 Resp: 240039  
Ion Ratio Lower Upper  
112 100  
64 66.1 52.1 78.1  
63 37.9 28.3 42.5

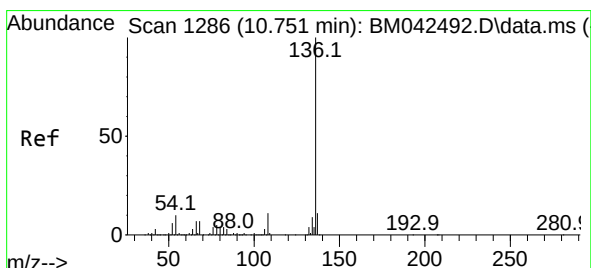
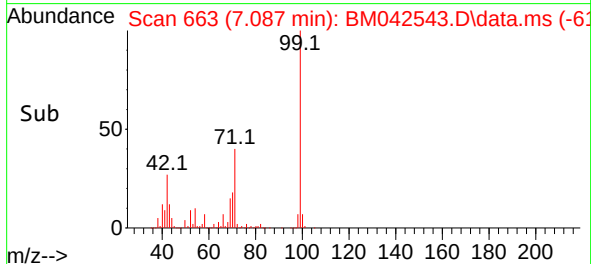
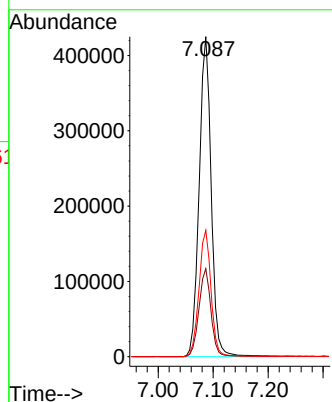
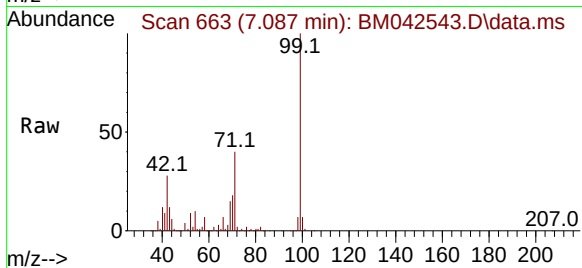




#7  
Phenol-d6  
Concen: 96.400 ng  
RT: 7.087 min Scan# 61  
Delta R.T. -0.012 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

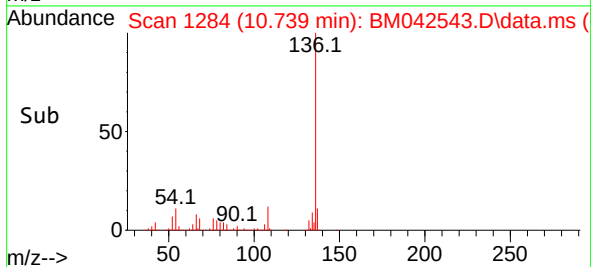
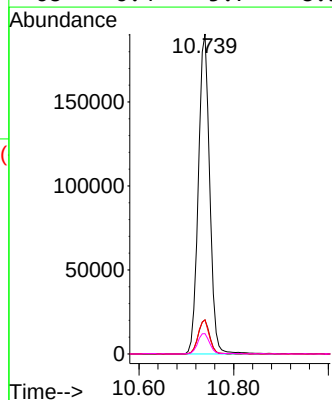
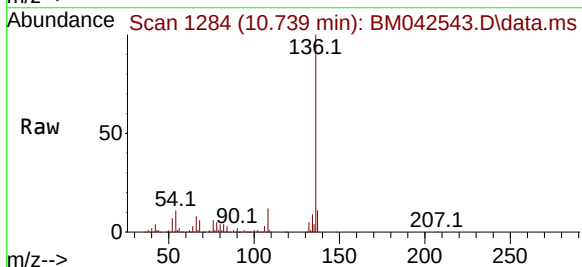
Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

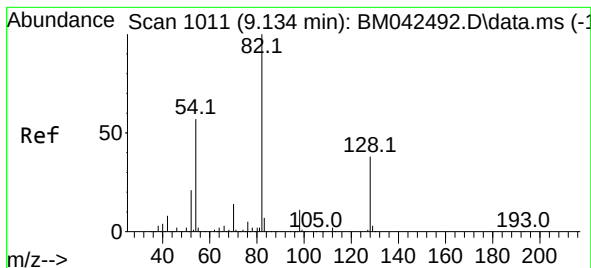
Tgt Ion: 99 Resp: 648302  
Ion Ratio Lower Upper  
99 100  
42 27.5 18.7 28.1  
71 39.5 29.1 43.7



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.739 min Scan# 1284  
Delta R.T. -0.012 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion: 136 Resp: 317074  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.0 13.6  
54 10.7 8.0 12.0  
68 6.4 5.7 8.5





#23

Nitrobenzene-d5

Concen: 65.693 ng

RT: 9.122 min Scan# 1109

Delta R.T. -0.012 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023

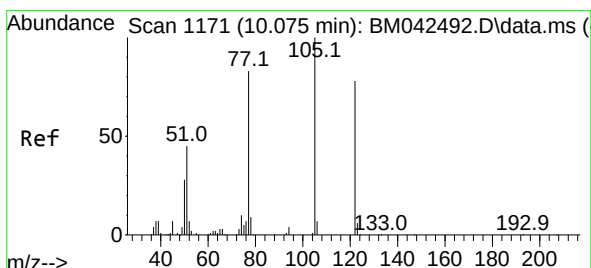
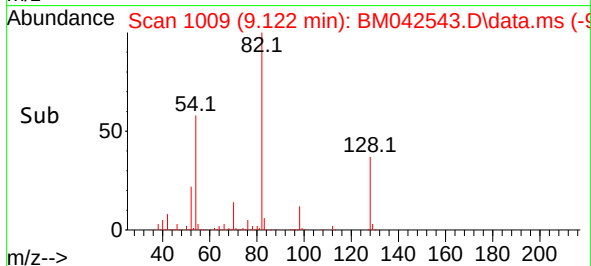
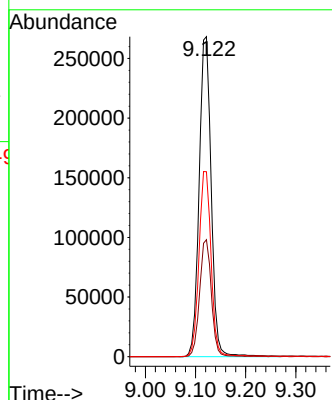
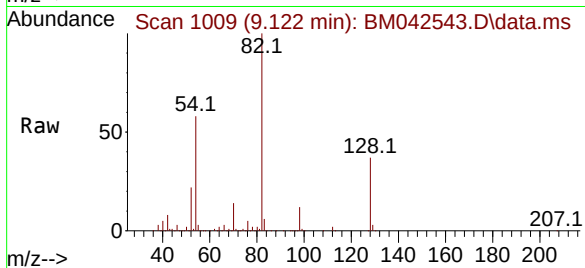
Tgt Ion: 82 Resp: 446828

Ion Ratio Lower Upper

82 100

128 36.6 30.7 46.1

54 57.8 45.3 67.9



#32

Benzoic acid

Concen: 4.476 ng

RT: 10.016 min Scan# 1161

Delta R.T. -0.059 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

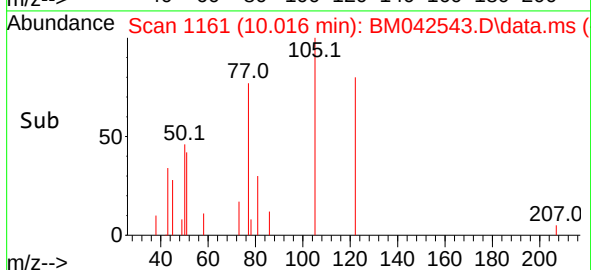
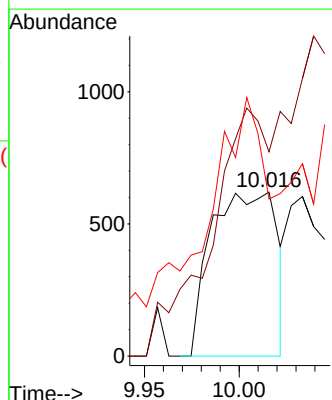
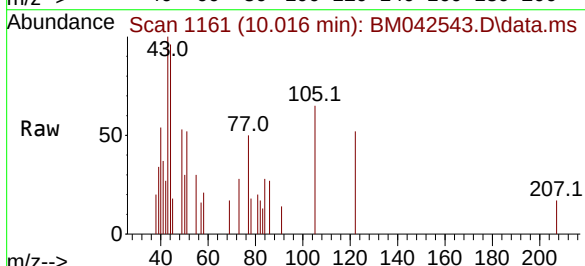
Tgt Ion:122 Resp: 1494

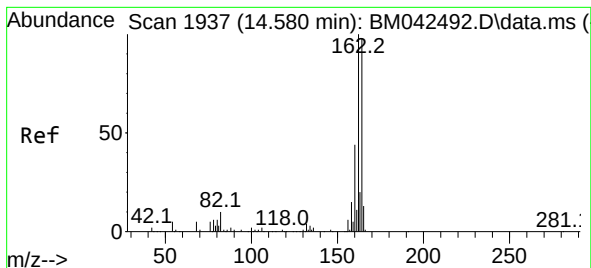
Ion Ratio Lower Upper

122 100

105 124.7 105.2 145.2

77 95.8 84.8 124.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.568 min Scan# 1935

Delta R.T. -0.012 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023

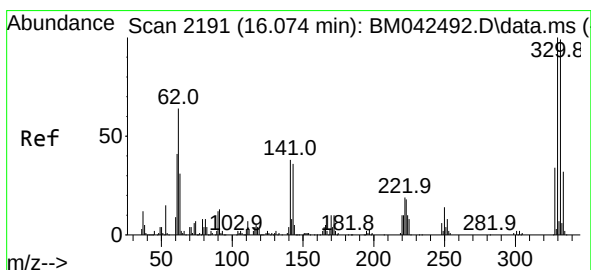
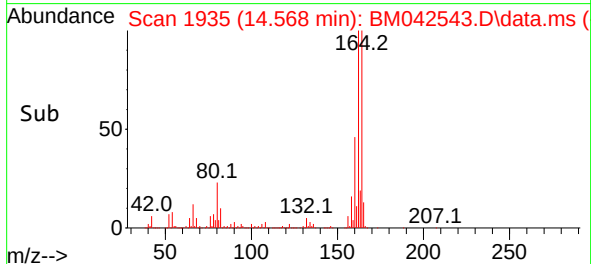
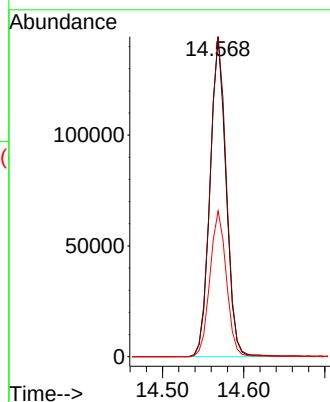
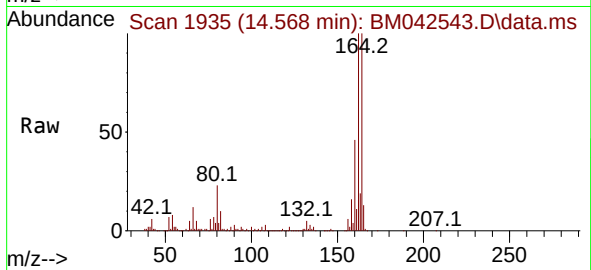
Tgt Ion:164 Resp: 197652

Ion Ratio Lower Upper

164 100

162 100.0 81.6 122.4

160 45.5 36.2 54.4



#42

2,4,6-Tribromophenol

Concen: 21.530 ng

RT: 16.062 min Scan# 2189

Delta R.T. -0.012 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

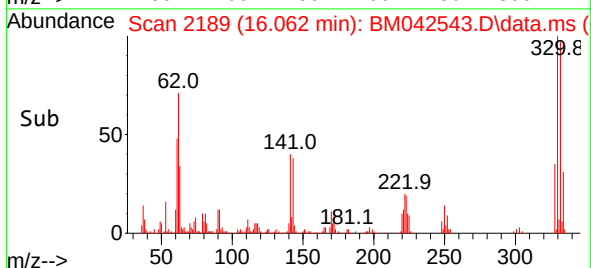
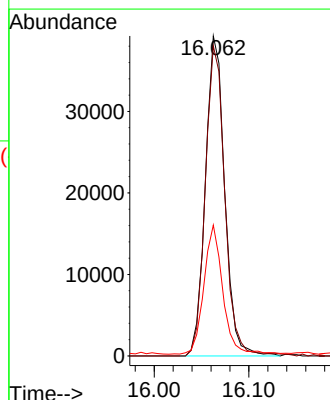
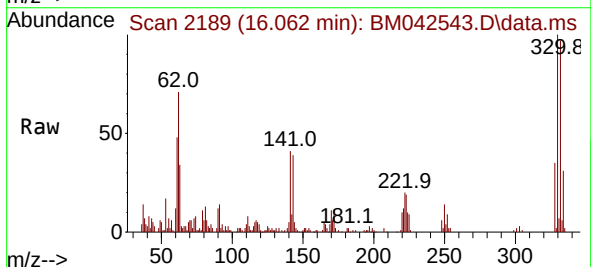
Tgt Ion:330 Resp: 55558

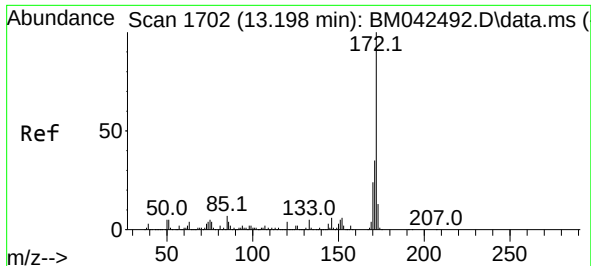
Ion Ratio Lower Upper

330 100

332 98.1 78.8 118.2

141 39.6 31.1 46.7

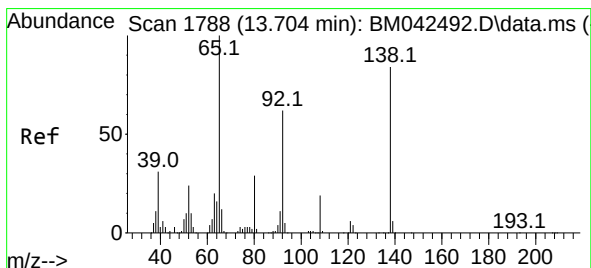
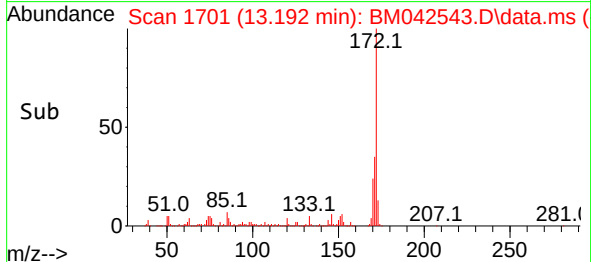
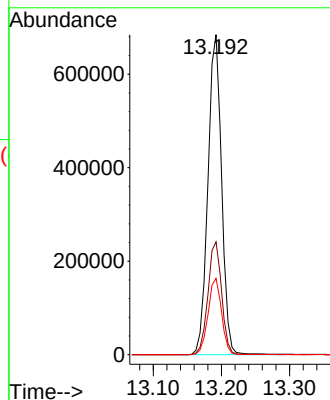
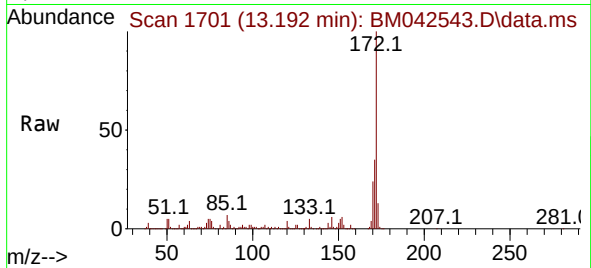




#45  
2-Fluorobiphenyl  
Concen: 64.964 ng  
RT: 13.192 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

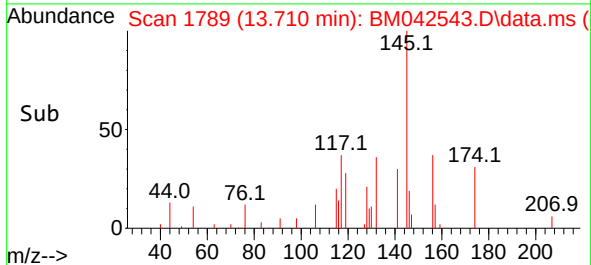
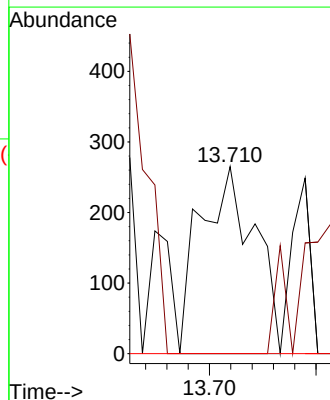
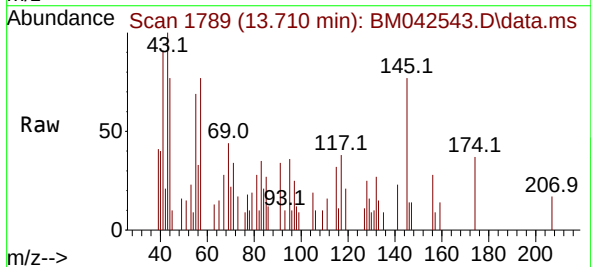
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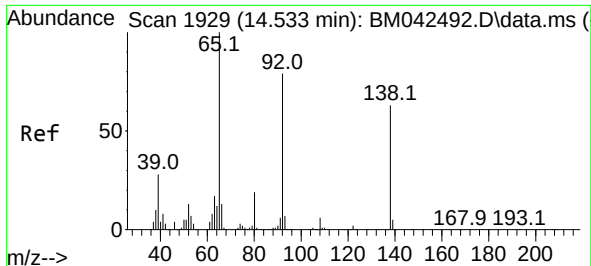
Tgt Ion:172 Resp: 954248  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.2 42.2  
170 23.9 19.0 28.4



#48  
2-Nitroaniline  
Concen: 4.446 ng  
RT: 13.710 min Scan# 1789  
Delta R.T. 0.006 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion: 65 Resp: 471  
Ion Ratio Lower Upper  
65 100  
92 0.0 49.4 74.2#  
138 0.0 66.9 100.3#

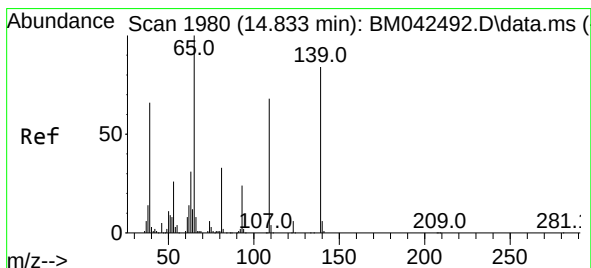
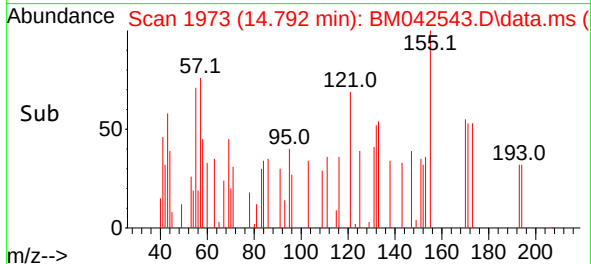
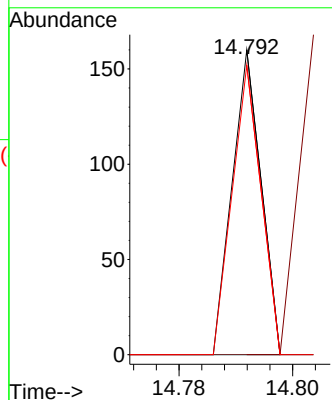
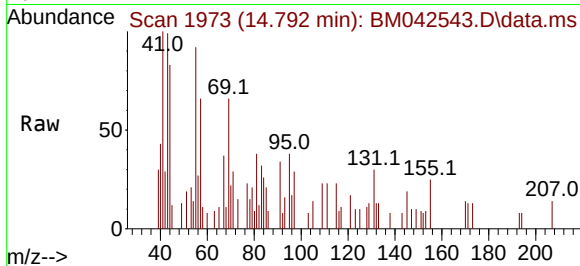




#53  
3-Nitroaniline  
Concen: 4.367 ng  
RT: 14.792 min Scan# 1929  
Delta R.T. 0.259 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

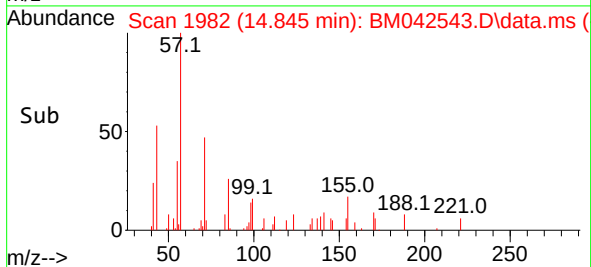
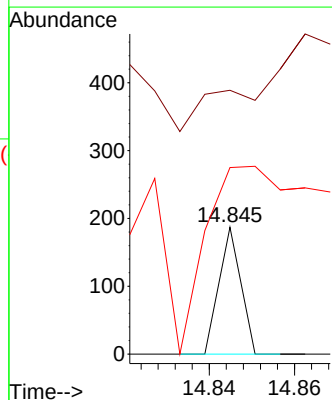
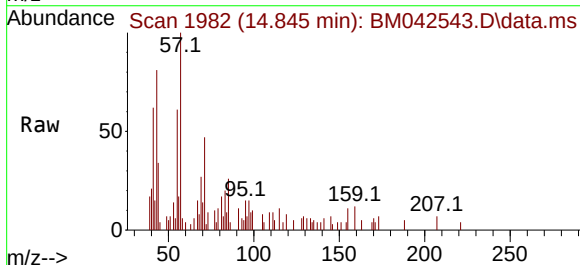
Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

Tgt Ion:138 Resp: 56  
Ion Ratio Lower Upper  
138 100  
108 0.0 7.9 11.9#  
92 95.0 100.7 151.1#

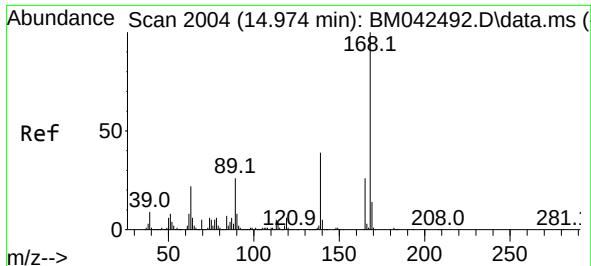


#56  
4-Nitrophenol  
Concen: 6.975 ng  
RT: 14.845 min Scan# 1982  
Delta R.T. 0.012 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion:139 Resp: 66  
Ion Ratio Lower Upper  
139 100  
109 208.0 61.3 101.3#  
65 147.1 100.2 140.2#







#57

2,4-Dinitrotoluene

Concen: 3.985 ng

RT: 14.980 min Scan# 20

Delta R.T. 0.006 min

Lab File: BM042543.D

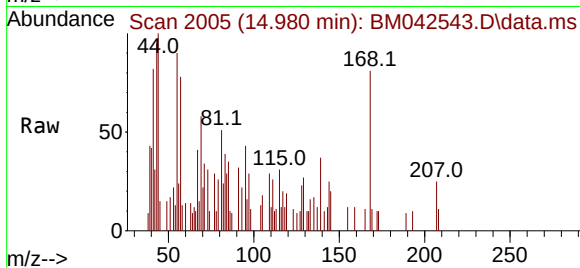
Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023



Tgt Ion:165 Resp: 68

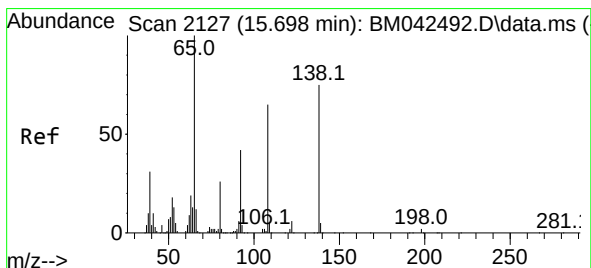
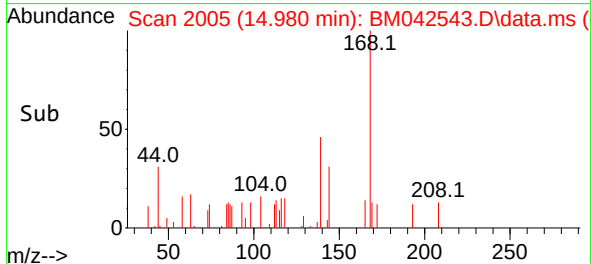
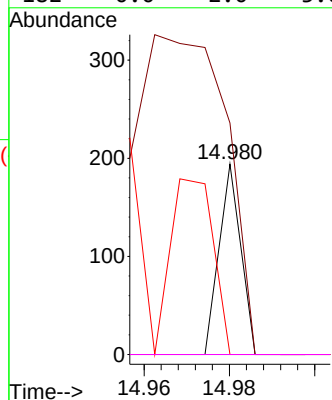
Ion Ratio Lower Upper

165 100

63 121.6 66.7 100.1#

89 0.0 80.2 120.4#

182 0.0 2.0 3.0#



#62

4-Nitroaniline

Concen: 5.755 ng

RT: 15.668 min Scan# 2122

Delta R.T. -0.030 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

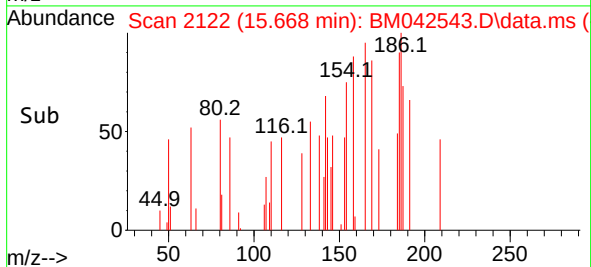
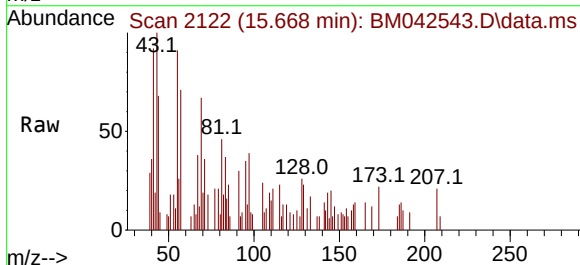
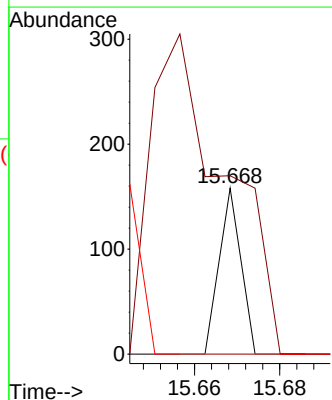
Tgt Ion:138 Resp: 56

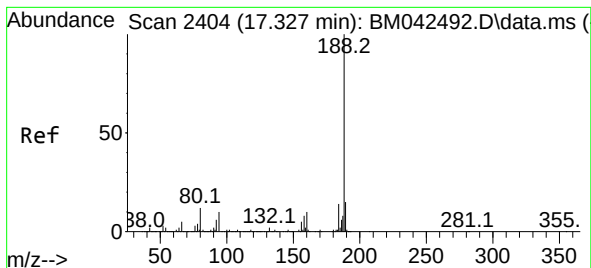
Ion Ratio Lower Upper

138 100

92 107.6 37.0 77.0#

108 0.0 67.2 107.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.321 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023

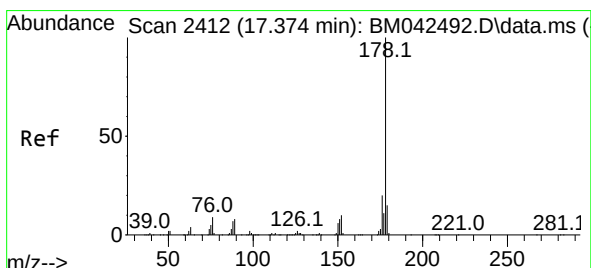
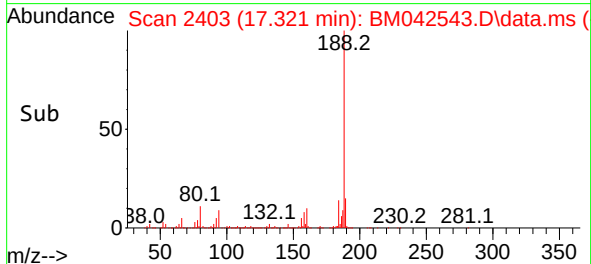
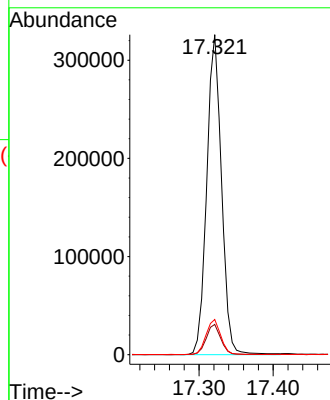
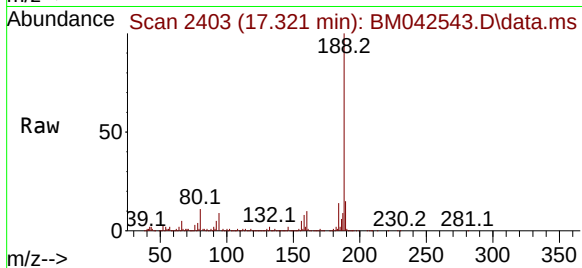
Tgt Ion:188 Resp: 451596

Ion Ratio Lower Upper

188 100

94 9.5 8.2 12.4

80 11.0 9.4 14.2



#71

Phenanthrene

Concen: 8.497 ng

RT: 17.362 min Scan# 2410

Delta R.T. -0.012 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

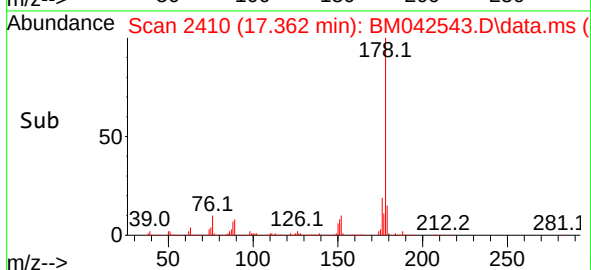
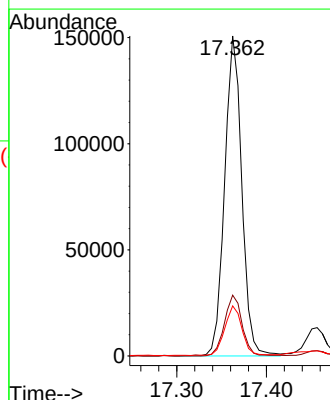
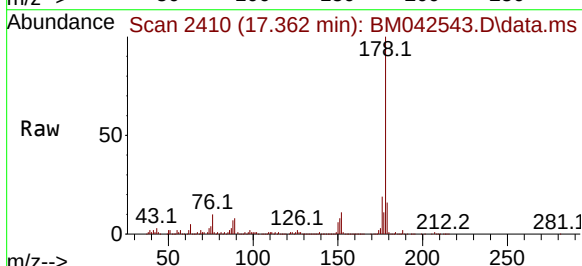
Tgt Ion:178 Resp: 200520

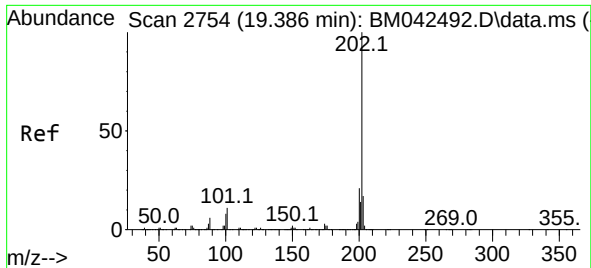
Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

179 15.6 12.2 18.4

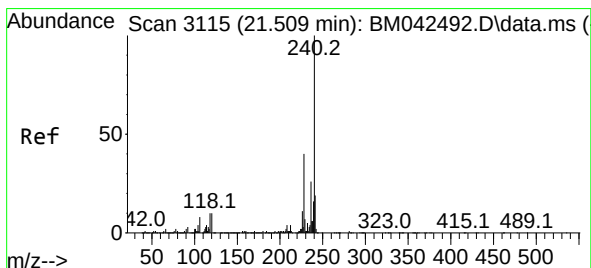
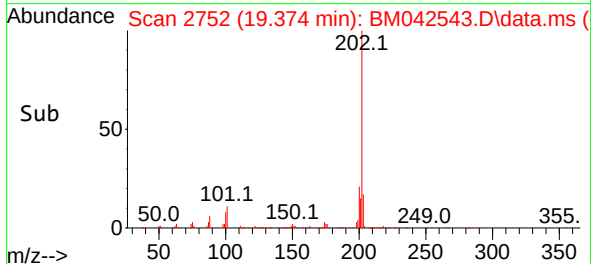
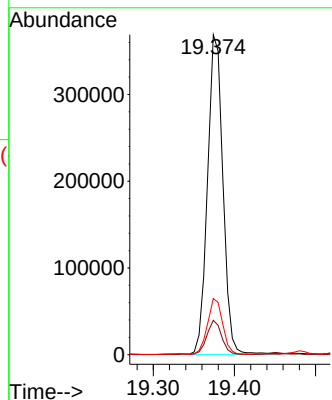
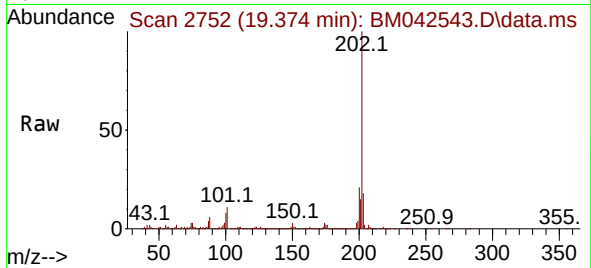




#75  
Fluoranthene  
Concen: 17.510 ng  
RT: 19.374 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

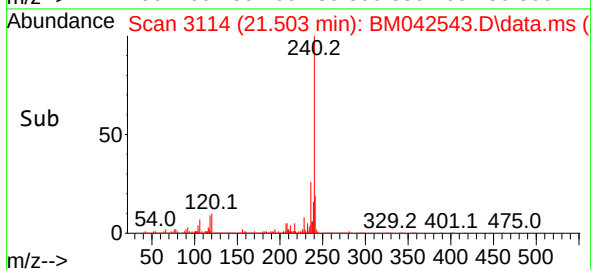
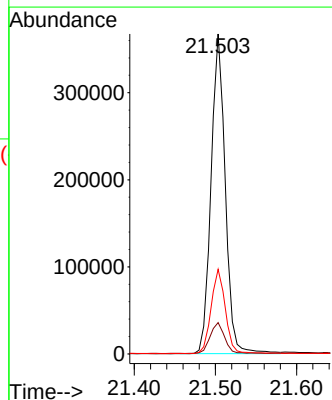
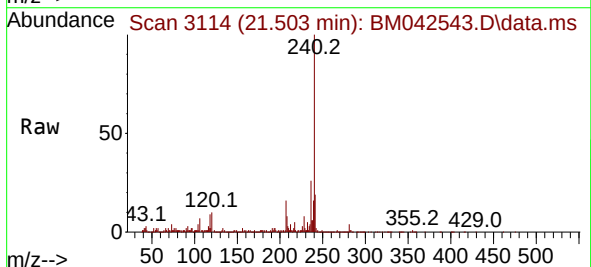
Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

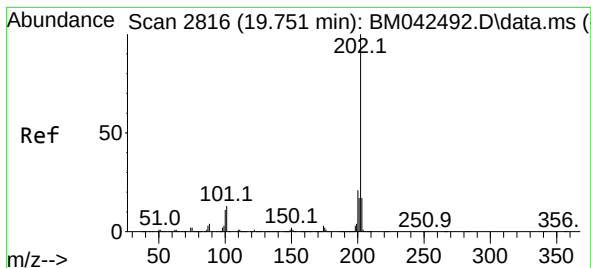
Tgt Ion:202 Resp: 485403  
Ion Ratio Lower Upper  
202 100  
101 10.7 0.0 30.5  
203 17.6 0.0 37.0



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.503 min Scan# 3114  
Delta R.T. -0.006 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion:240 Resp: 446188  
Ion Ratio Lower Upper  
240 100  
120 9.8 8.3 12.5  
236 26.4 20.8 31.2





#78

Pyrene

Concen: 12.781 ng

RT: 19.745 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023

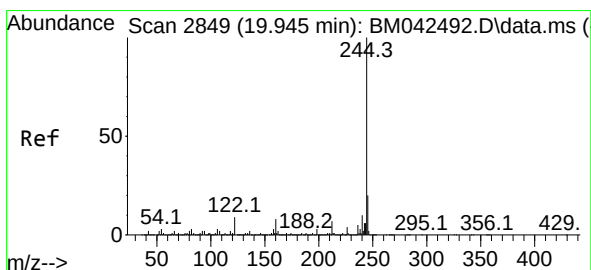
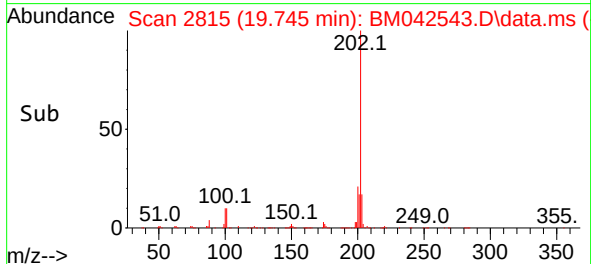
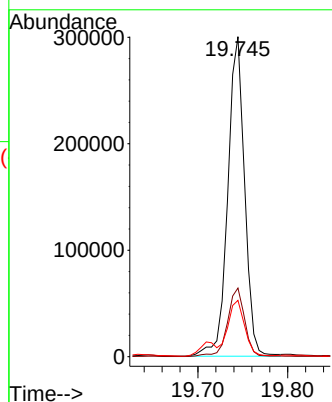
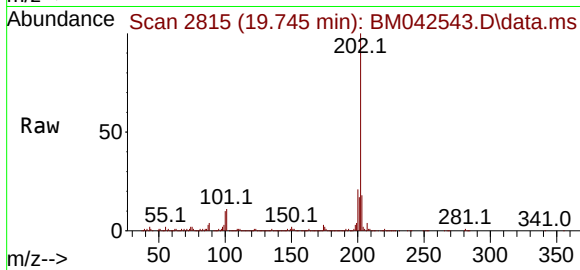
Tgt Ion:202 Resp: 391592

Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

203 17.6 13.7 20.5



#79

Terphenyl-d14

Concen: 70.278 ng

RT: 19.939 min Scan# 2848

Delta R.T. -0.006 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

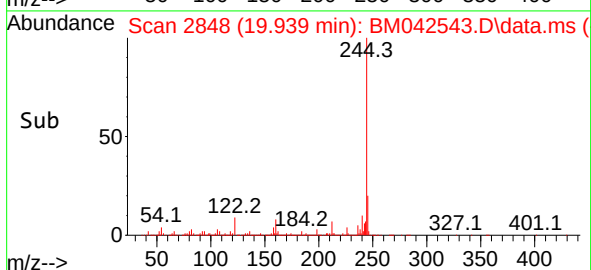
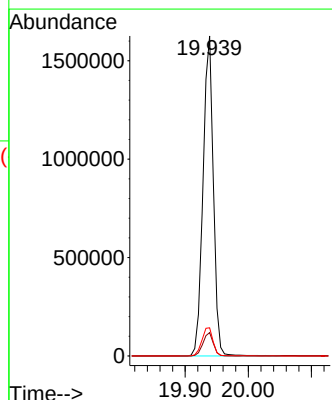
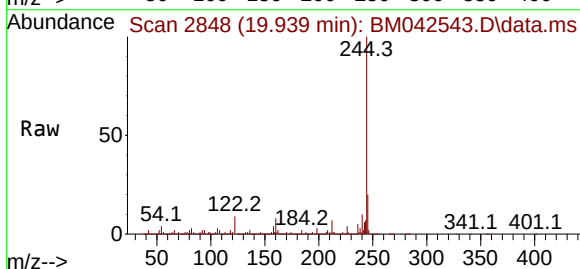
Tgt Ion:244 Resp: 1849323

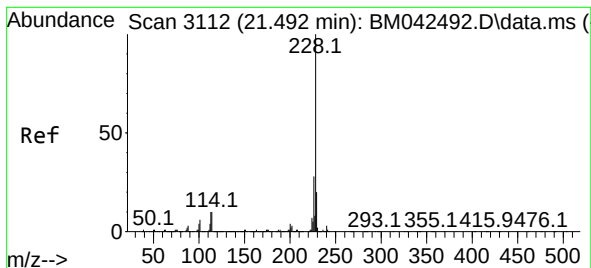
Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.2

122 8.8 7.2 10.8





#81

Benzo(a)anthracene

Concen: 5.915 ng

RT: 21.486 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023

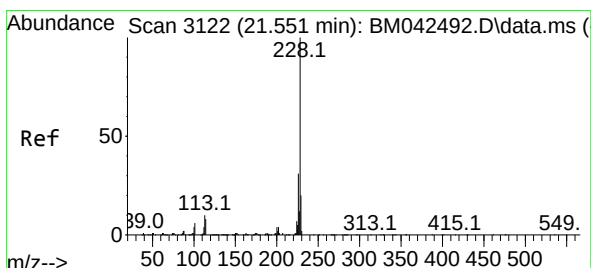
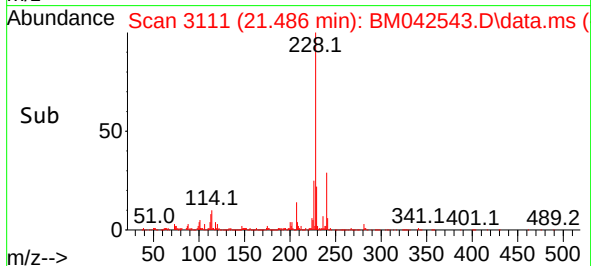
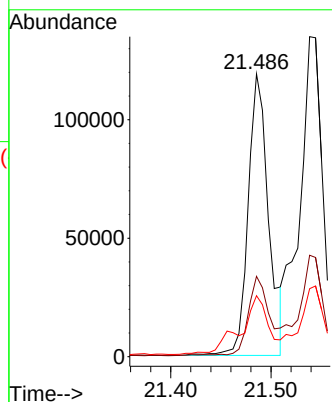
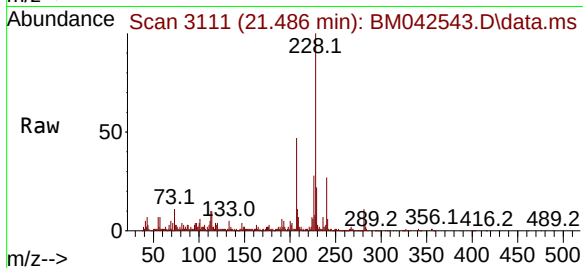
Tgt Ion:228 Resp: 167919

Ion Ratio Lower Upper

228 100

226 28.4 22.3 33.5

229 21.5 15.8 23.8



#83

Chrysene

Concen: 7.545 ng

RT: 21.539 min Scan# 3120

Delta R.T. -0.012 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

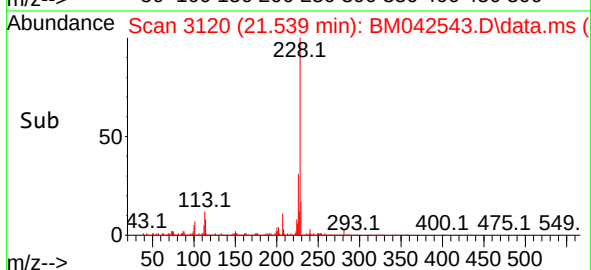
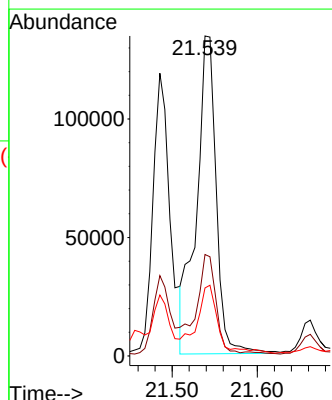
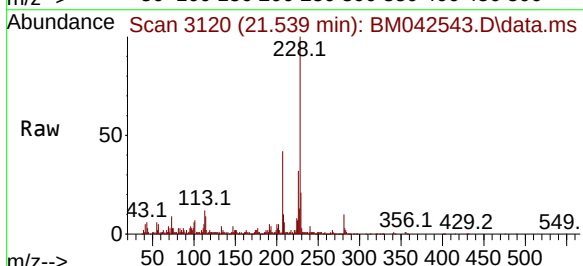
Tgt Ion:228 Resp: 217580

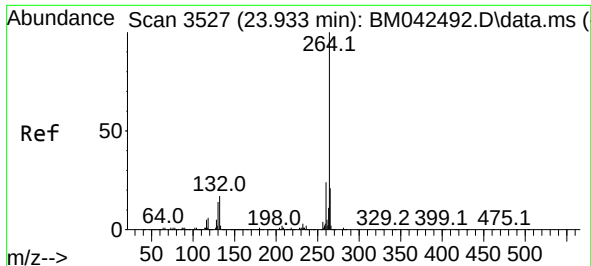
Ion Ratio Lower Upper

228 100

226 31.7 24.4 36.6

229 21.2 15.7 23.5

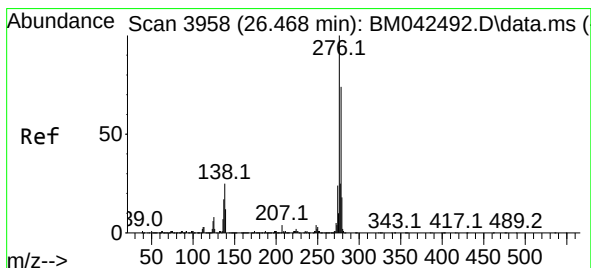
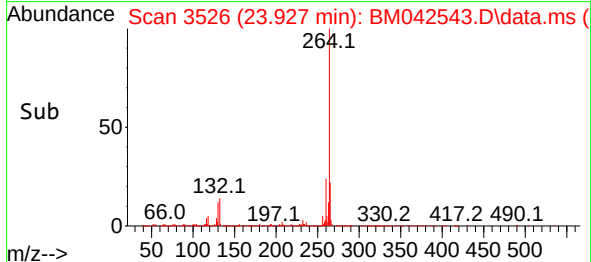
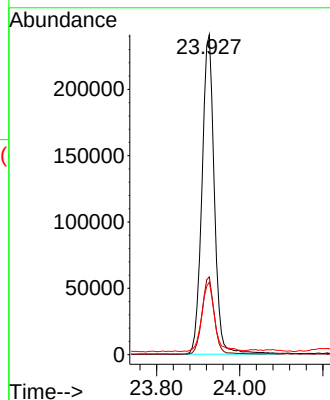
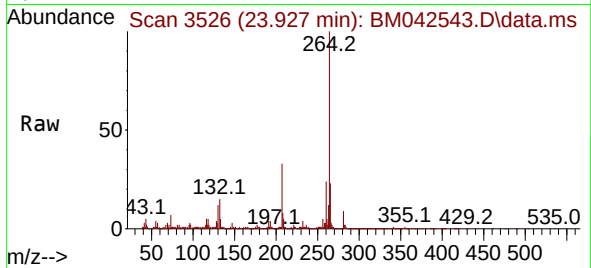




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.927 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

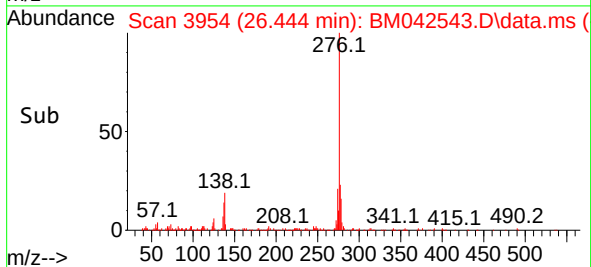
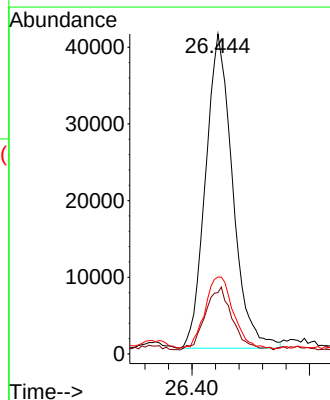
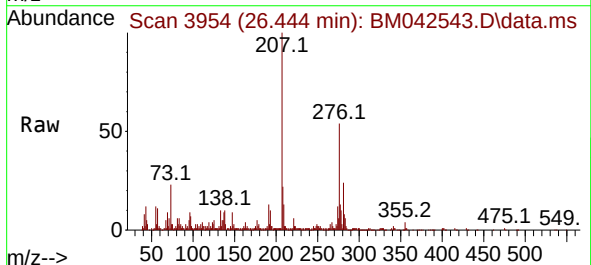
Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

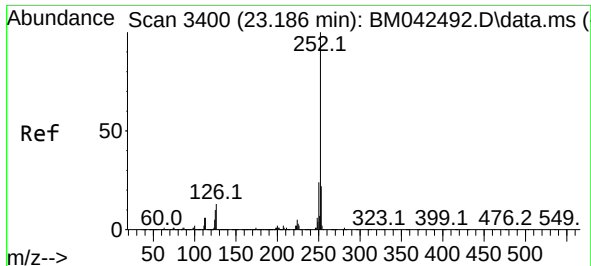
Tgt Ion:264 Resp: 498906  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.0 28.4  
265 22.7 18.7 28.1



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.416 ng  
RT: 26.444 min Scan# 3954  
Delta R.T. -0.024 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion:276 Resp: 131142  
Ion Ratio Lower Upper  
276 100  
138 19.9 20.6 31.0#  
277 23.8 19.5 29.3

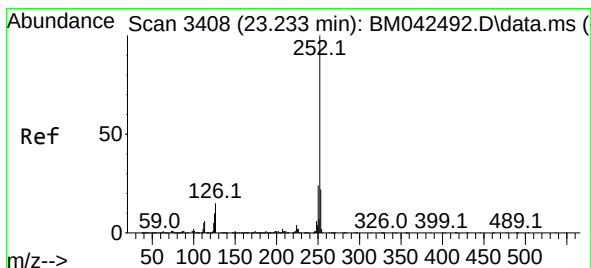
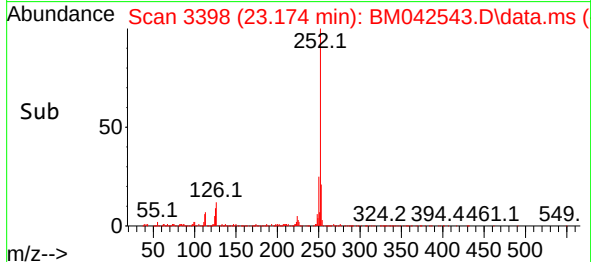
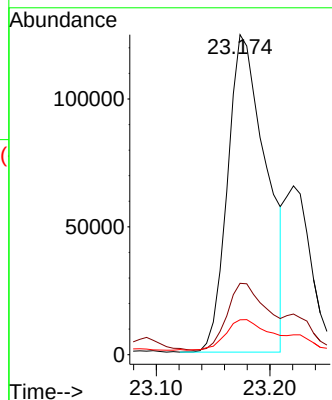
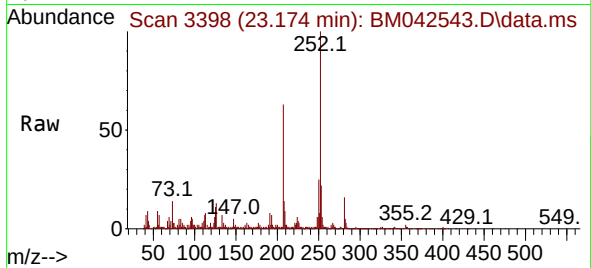




#88  
Benzo(b)fluoranthene  
Concen: 10.553 ng  
RT: 23.174 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

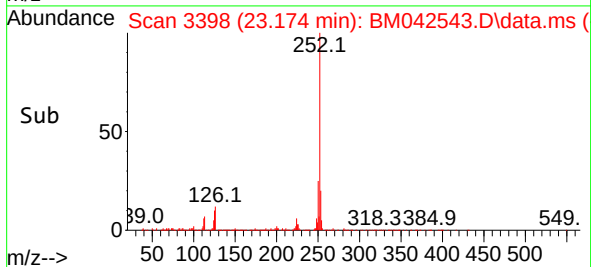
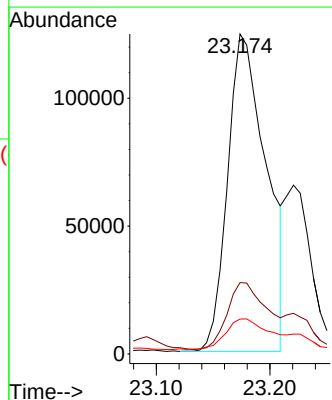
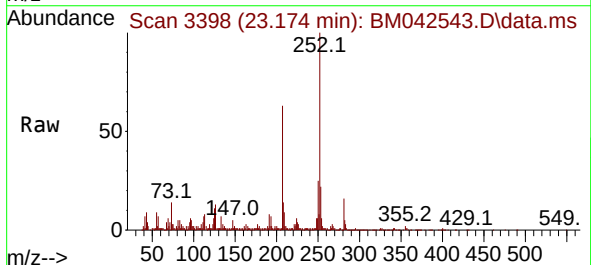
Instrument :  
BNA\_M  
ClientSampleId :  
TR-06-10272023

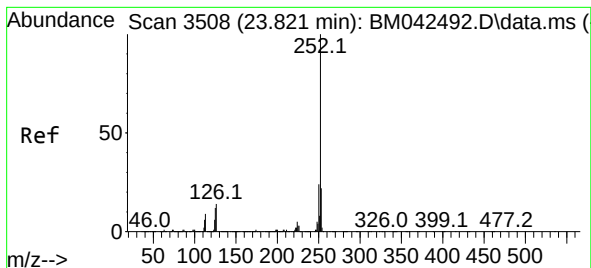
Tgt Ion:252 Resp: 293312  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.5 26.3  
125 10.9 7.8 11.6



#89  
Benzo(k)fluoranthene  
Concen: 9.470 ng  
RT: 23.174 min Scan# 3398  
Delta R.T. -0.059 min  
Lab File: BM042543.D  
Acq: 01 Nov 2023 17:12

Tgt Ion:252 Resp: 293312  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.6 26.4  
125 10.9 8.2 12.4





#90

Benzo(a)pyrene

Concen: 5.654 ng

RT: 23.815 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023

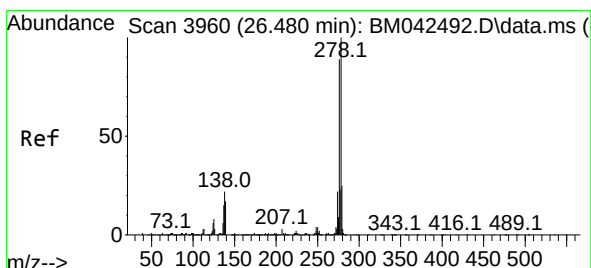
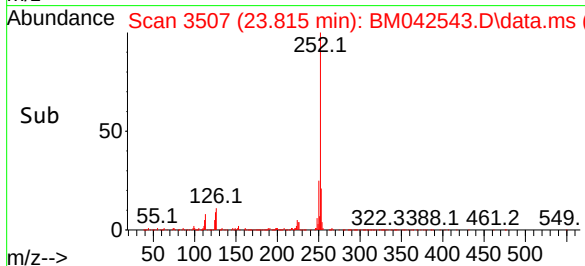
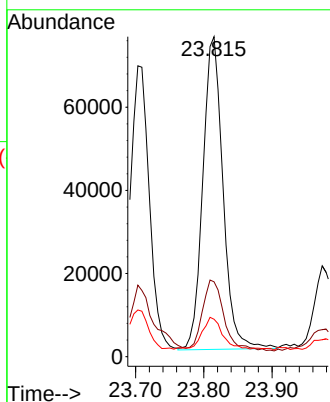
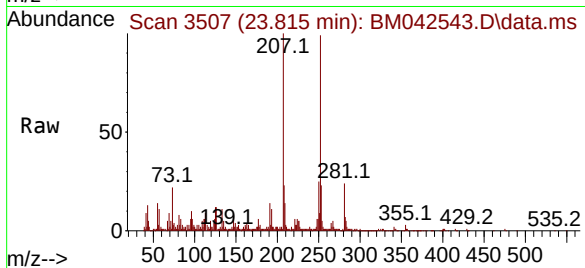
Tgt Ion:252 Resp: 154712

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 11.7 9.4 14.2



#91

Dibenzo(a,h)anthracene

Concen: 5.302 ng

RT: 26.468 min Scan# 3958

Delta R.T. -0.012 min

Lab File: BM042543.D

Acq: 01 Nov 2023 17:12

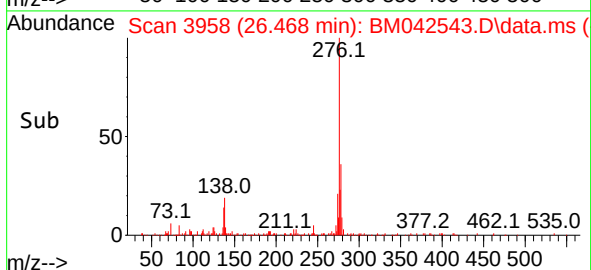
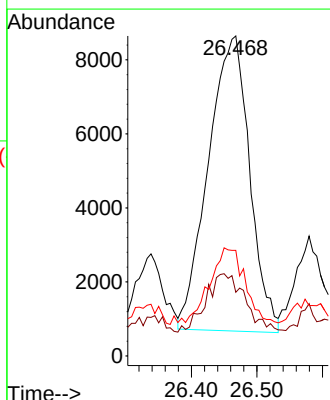
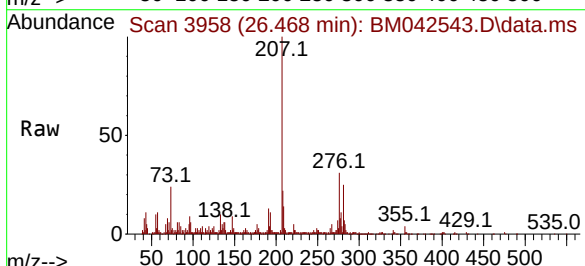
Tgt Ion:278 Resp: 34929

Ion Ratio Lower Upper

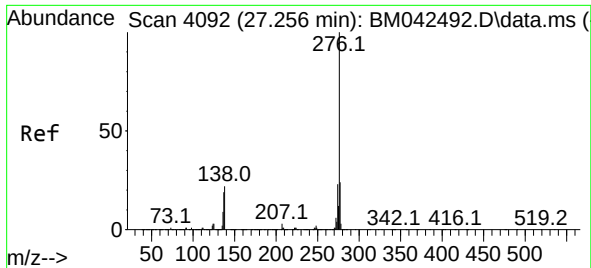
278 100

139 19.9 13.4 20.2

279 33.0 19.7 29.5#







#92

Benzo(g,h,i)perylene

Concen: 5.270 ng

RT: 27.238 min Scan# 40

Delta R.T. -0.018 min

Lab File: BM042543.D

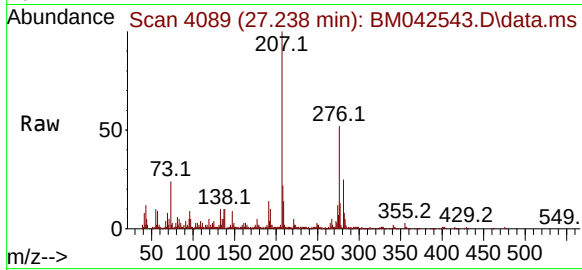
Acq: 01 Nov 2023 17:12

Instrument :

BNA\_M

ClientSampleId :

TR-06-10272023



Tgt Ion:276 Resp: 137919

Ion Ratio Lower Upper

276 100

277 24.9 19.2 28.8

138 19.8 17.3 25.9

