

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032323\  
 Data File : BM039131.D  
 Acq On : 24 Mar 2023 00:29  
 Operator : CG/JU  
 Sample : 01932-03  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CE-86B-031423

Quant Time: Mar 24 04:36:12 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM030823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 22 03:36:20 2023  
 Response via : Initial Calibration

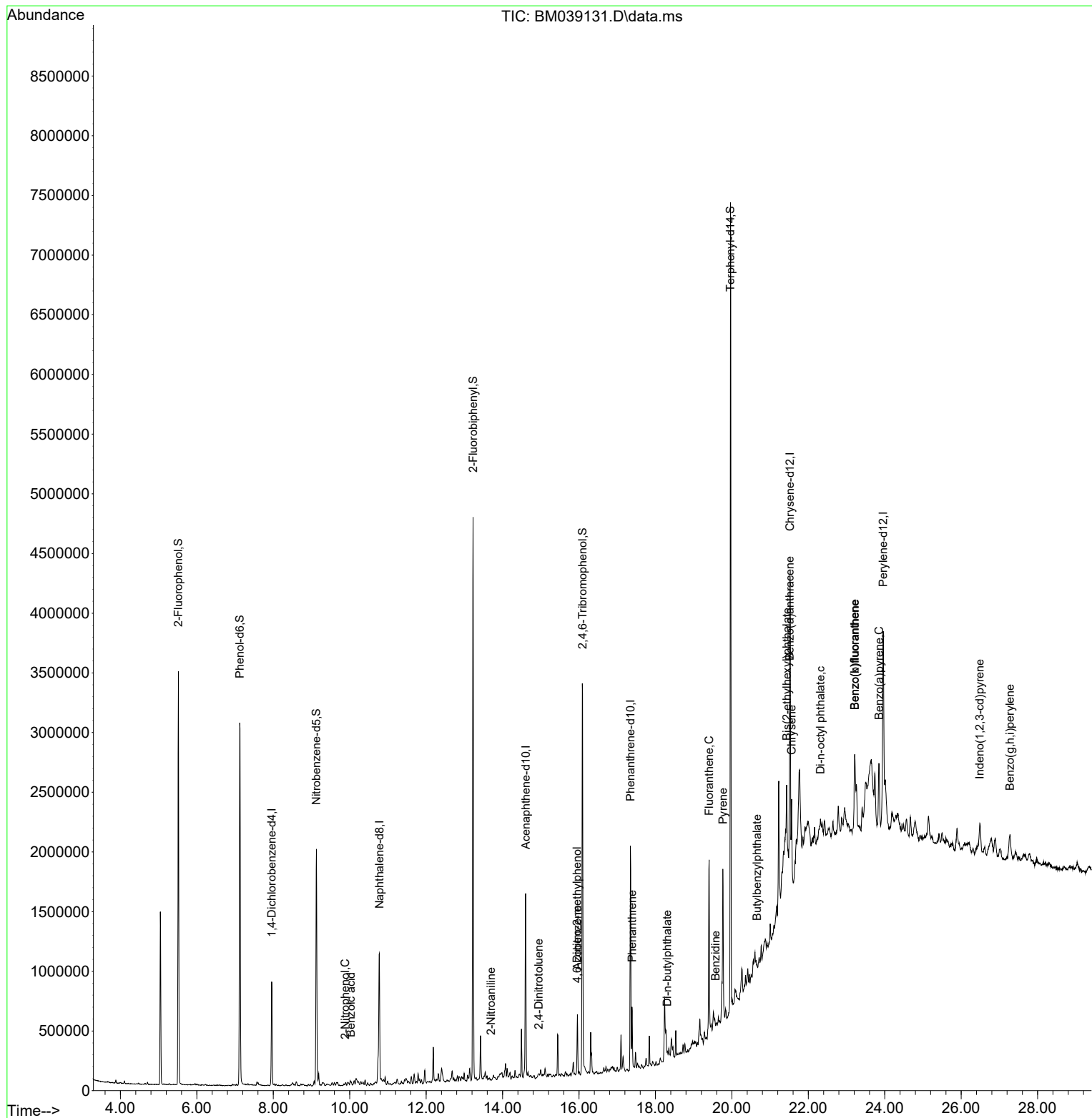
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.957  | 152  | 234259   | 20.000  | ng    | -0.01    |
| 21) Naphthalene-d8            | 10.775 | 136  | 935921   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.604 | 164  | 528037   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.345 | 188  | 1096715  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.521 | 240  | 993185   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 23.956 | 264  | 1103442  | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 1499969  | 97.281  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.122  | 99   | 1888390  | 94.289  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.128  | 82   | 1161922  | 60.982  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.092 | 330  | 635757   | 104.077 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.228 | 172  | 2362653  | 58.248  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.962 | 244  | 3329961  | 61.301  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 26) 2-Nitrophenol             | 9.881  | 139  | 139      | 3.005   | ng    | # 1      |
| 32) Benzoic acid              | 10.028 | 122  | 557      | 5.777   | ng    | # 1      |
| 48) 2-Nitroaniline            | 13.698 | 65   | 285      | 2.241   | ng    | # 27     |
| 57) 2,4-Dinitrotoluene        | 14.945 | 165  | 177      | 2.086   | ng    | # 66     |
| 63) Azobenzene                | 15.957 | 77   | 138870   | 3.320   | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 15.951 | 198  | 67       | 5.097   | ng    | # 1      |
| 71) Phenanthrene              | 17.386 | 178  | 305106   | 4.740   | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.310 | 149  | 21394    | 2.087   | ng    | 96       |
| 75) Fluoranthene              | 19.404 | 202  | 760008   | 11.183  | ng    | 99       |
| 77) Benzidine                 | 19.574 | 184  | 574      | 4.899   | ng    | # 1      |
| 78) Pyrene                    | 19.762 | 202  | 741631   | 9.942   | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.656 | 149  | 3549     | 3.420   | ng    | # 69     |
| 81) Benzo(a)anthracene        | 21.509 | 228  | 441546   | 6.173   | ng    | 95       |
| 83) Chrysene                  | 21.562 | 228  | 388233   | 5.581   | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.433 | 149  | 318633   | 9.073   | ng    | 97       |
| 85) Di-n-octyl phthalate      | 22.315 | 149  | 49058    | 4.390   | ng    | # 77     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.486 | 276  | 269958   | 3.215   | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 23.215 | 252  | 551768   | 7.827   | ng    | # 88     |
| 89) Benzo(k)fluoranthene      | 23.215 | 252  | 551768   | 7.521   | ng    | # 88     |
| 90) Benzo(a)pyrene            | 23.850 | 252  | 377831   | 5.569   | ng    | # 93     |
| 92) Benzo(g,h,i)perylene      | 27.274 | 276  | 271022   | 3.896   | ng    | 97       |
| -----                         |        |      |          |         |       |          |

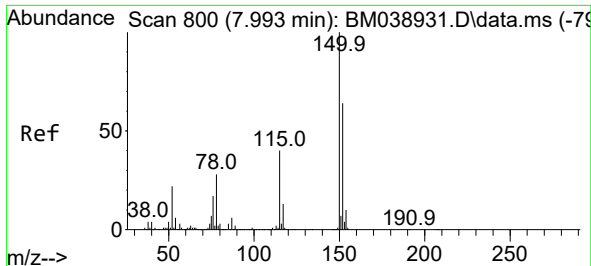
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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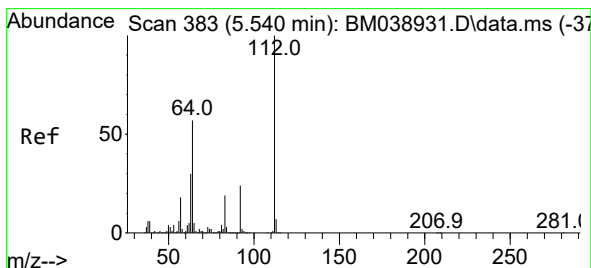
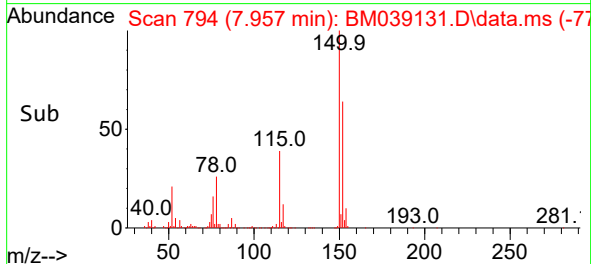
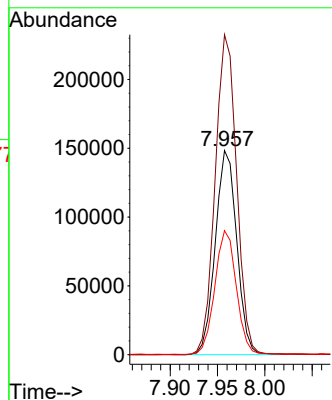
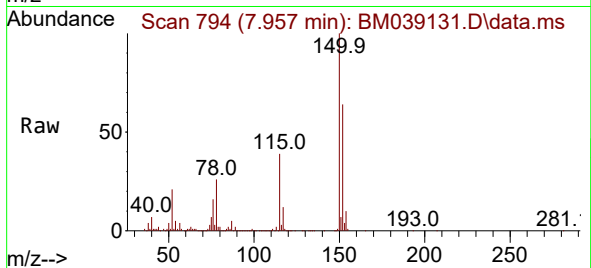




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.957 min Scan# 794  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

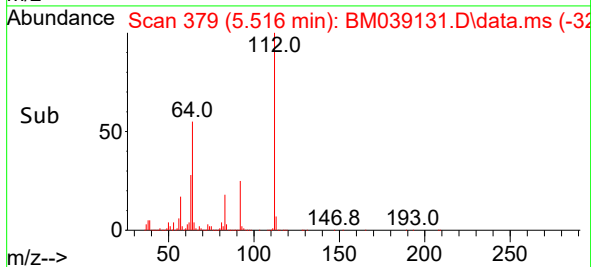
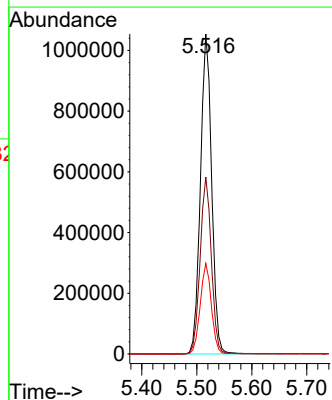
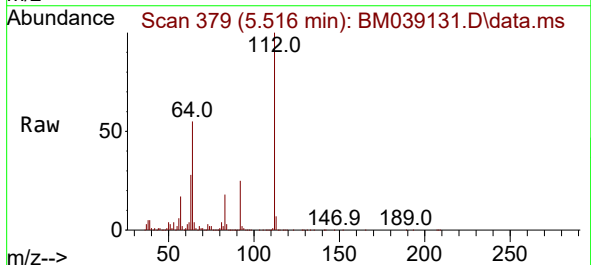
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

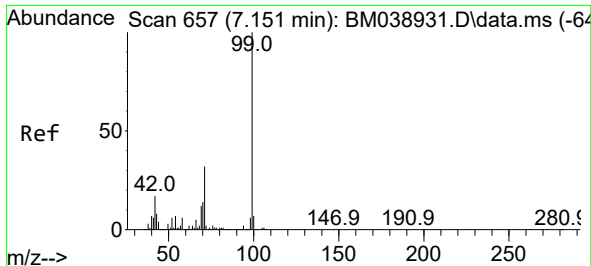
Tgt Ion:152 Resp: 234259  
Ion Ratio Lower Upper  
152 100  
150 156.7 125.1 187.7  
115 60.7 49.6 74.4



#5  
2-Fluorophenol  
Concen: 97.281 ng  
RT: 5.516 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:112 Resp: 1499969  
Ion Ratio Lower Upper  
112 100  
64 55.3 45.9 68.9  
63 28.3 23.8 35.8

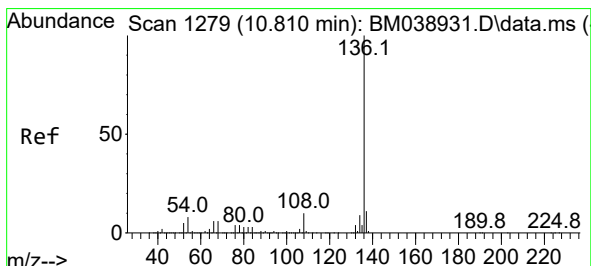
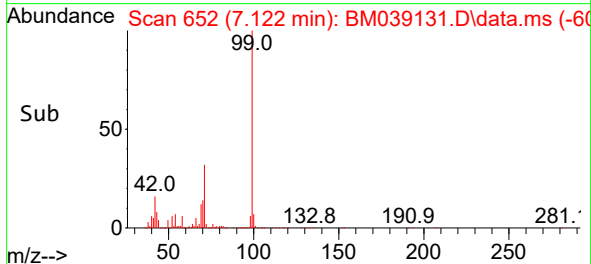
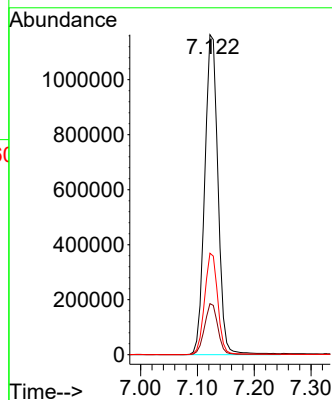
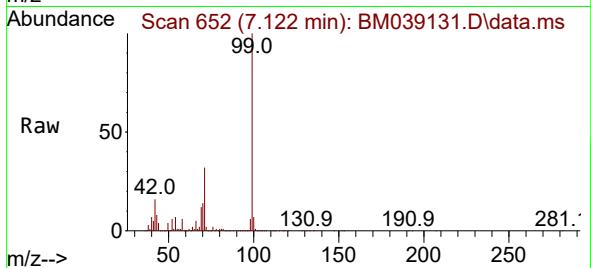




#7  
Phenol-d6  
Concen: 94.289 ng  
RT: 7.122 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

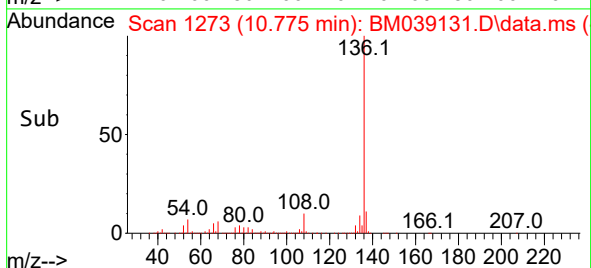
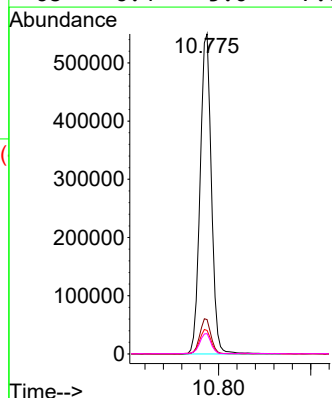
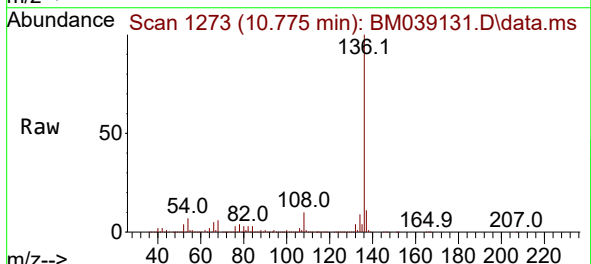
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

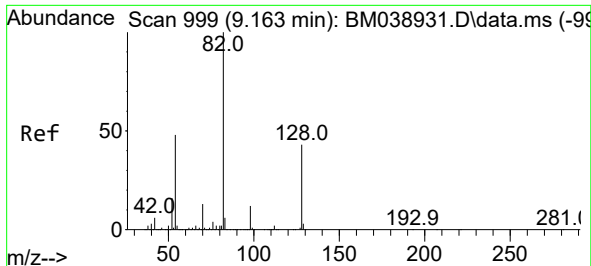
Tgt Ion: 99 Resp: 1888390  
Ion Ratio Lower Upper  
99 100  
42 16.0 13.5 20.3  
71 31.7 25.6 38.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.775 min Scan# 1273  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion: 136 Resp: 935921  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.7 13.1  
54 7.4 6.3 9.5  
68 6.4 5.0 7.6

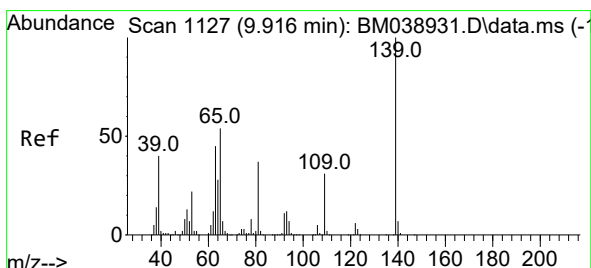
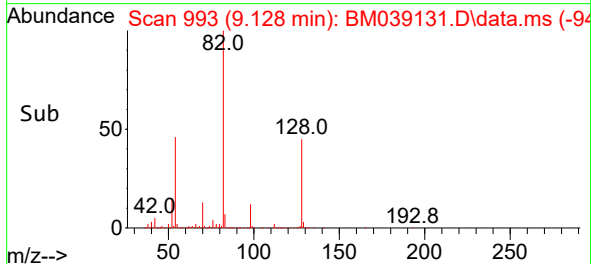
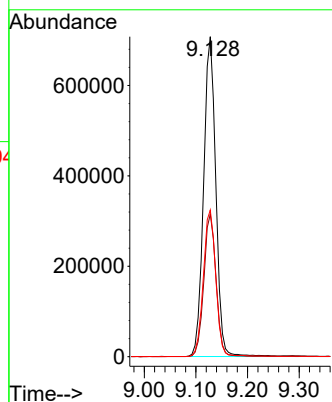
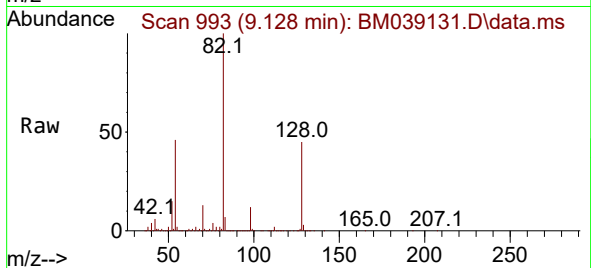




#23  
Nitrobenzene-d5  
Concen: 60.982 ng  
RT: 9.128 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

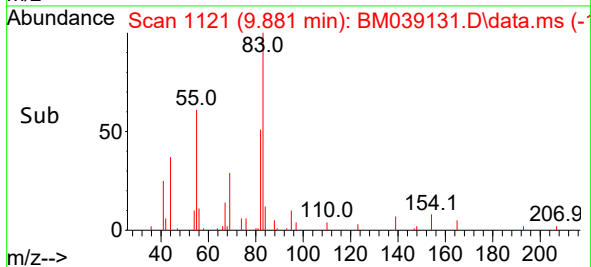
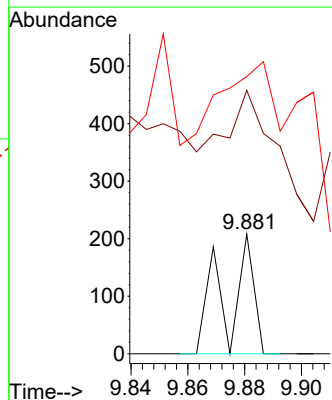
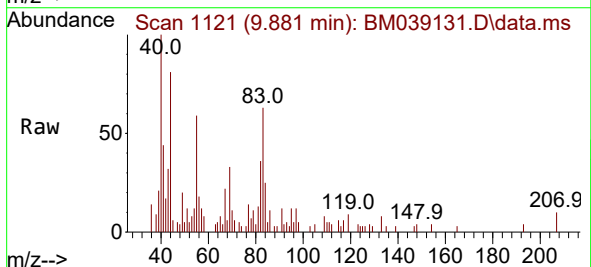
Instrument :  
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ClientSampleId :  
CE-86B-031423

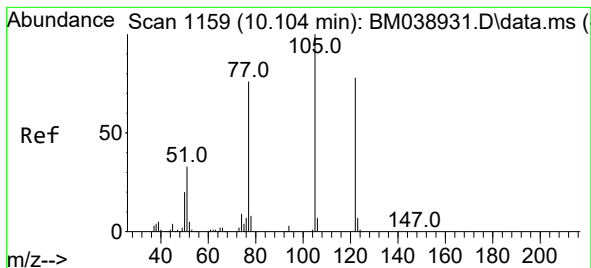
Tgt Ion: 82 Resp: 1161922  
Ion Ratio Lower Upper  
82 100  
128 44.5 34.4 51.6  
54 45.9 38.8 58.2



#26  
2-Nitrophenol  
Concen: 3.005 ng  
RT: 9.881 min Scan# 1121  
Delta R.T. -0.012 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion: 139 Resp: 139  
Ion Ratio Lower Upper  
139 100  
109 220.2 24.5 36.7#  
65 231.7 43.0 64.6#





#32

Benzoic acid

Concen: 5.777 ng

RT: 10.028 min Scan# 1146

Delta R.T. -0.059 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423

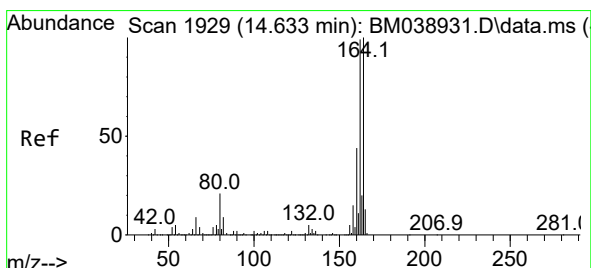
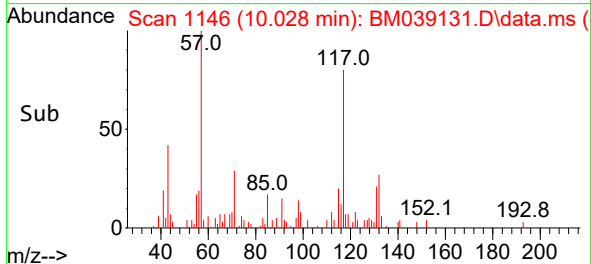
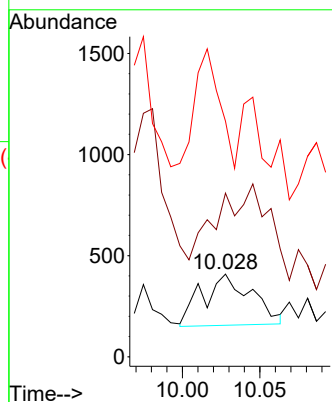
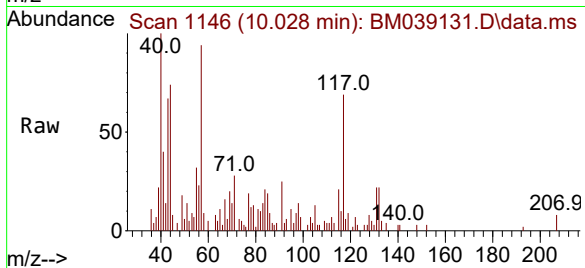
Tgt Ion:122 Resp: 557

Ion Ratio Lower Upper

122 100

105 197.8 104.2 144.2#

77 284.8 75.1 115.1#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.604 min Scan# 1924

Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

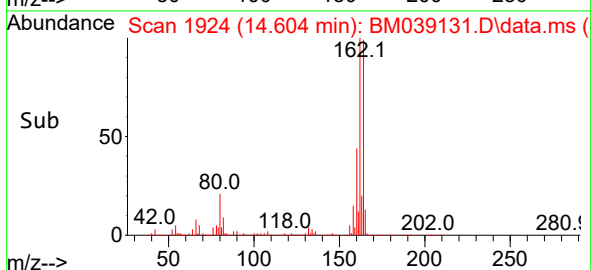
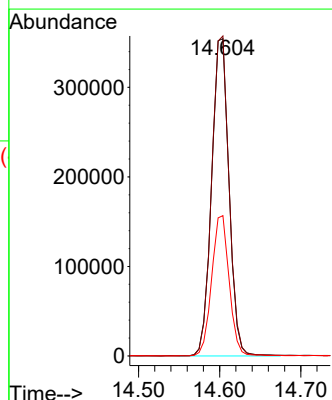
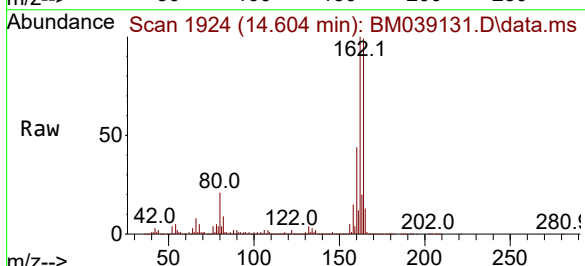
Tgt Ion:164 Resp: 528037

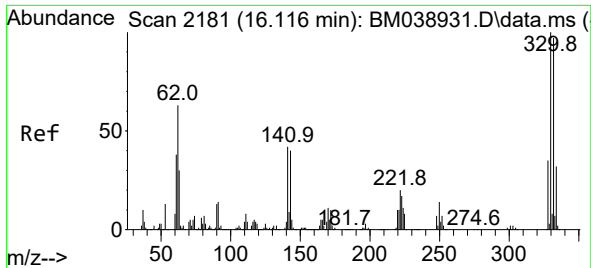
Ion Ratio Lower Upper

164 100

162 100.8 79.2 118.8

160 44.2 35.5 53.3

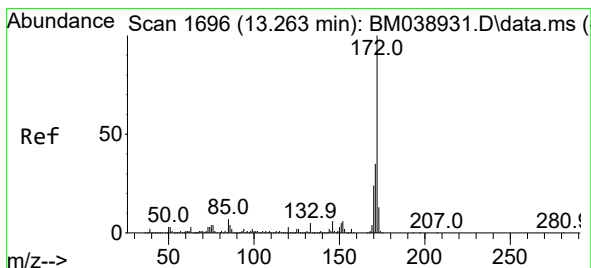
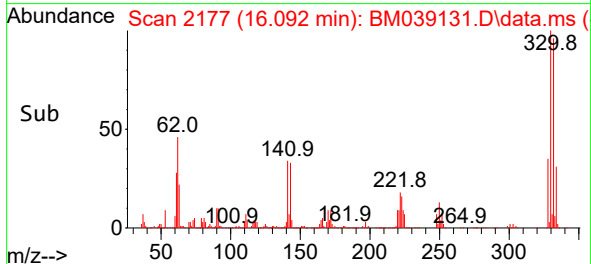
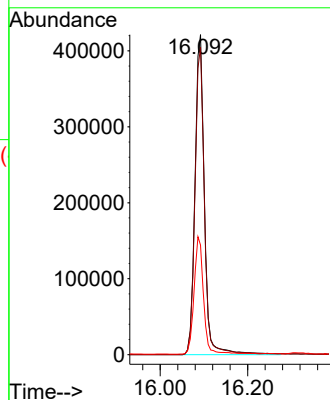
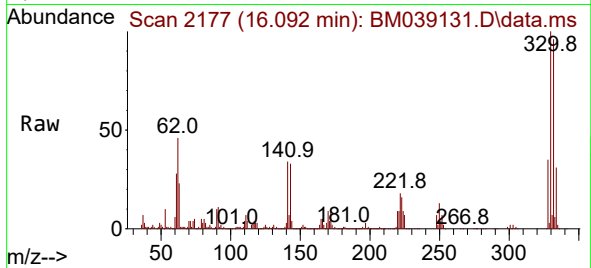




#42  
2,4,6-Tribromophenol  
Concen: 104.077 ng  
RT: 16.092 min Scan# 2181  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

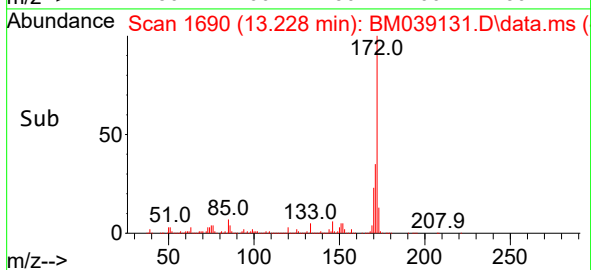
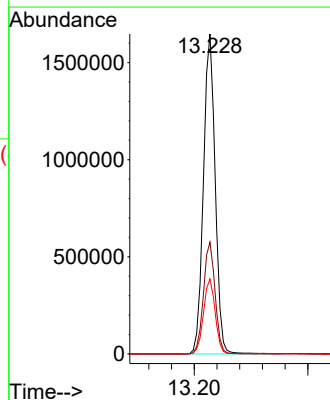
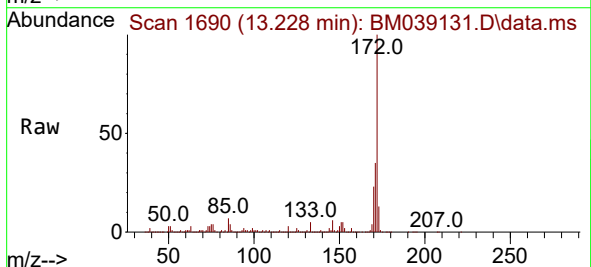
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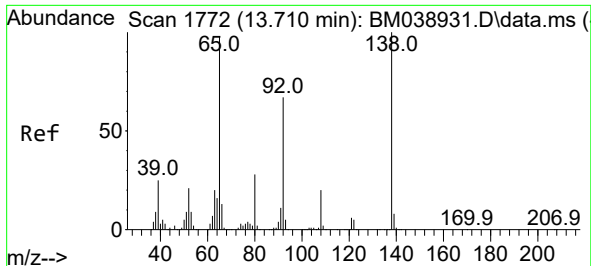
Tgt Ion:330 Resp: 635757  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.4 116.0  
141 36.5 32.2 48.4



#45  
2-Fluorobiphenyl  
Concen: 58.248 ng  
RT: 13.228 min Scan# 1690  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:172 Resp: 2362653  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.2 42.2  
170 23.5 19.1 28.7

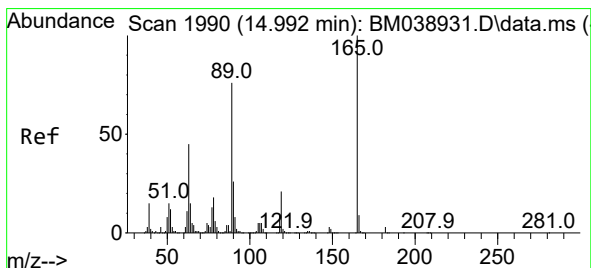
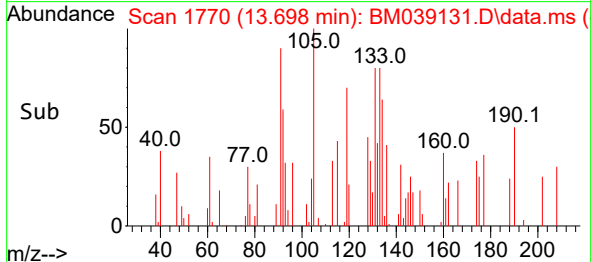
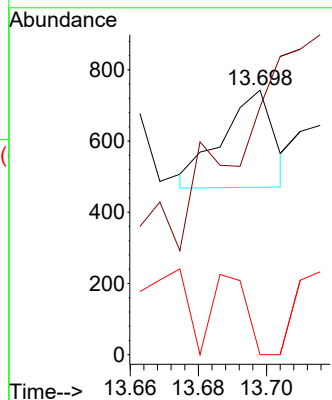
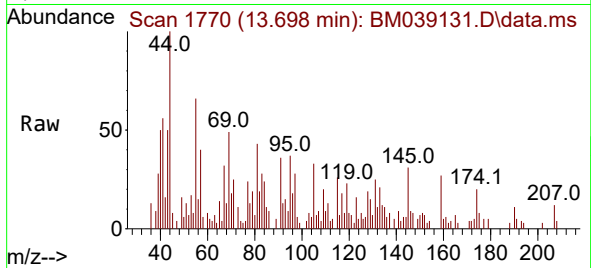




#48  
2-Nitroaniline  
Concen: 2.241 ng  
RT: 13.698 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

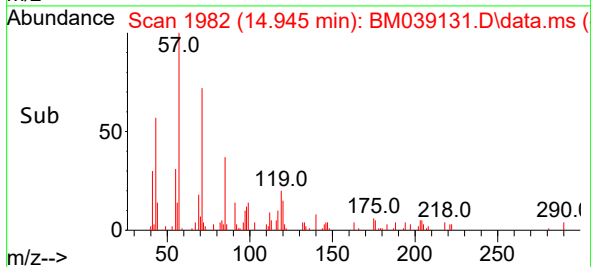
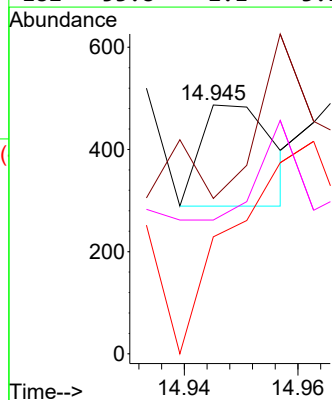
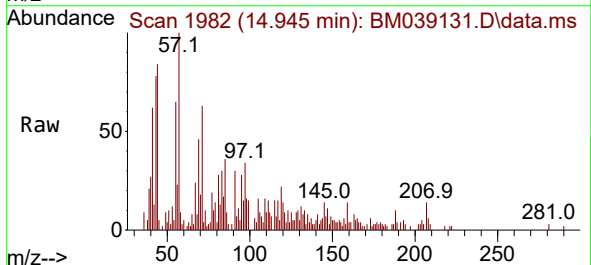
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

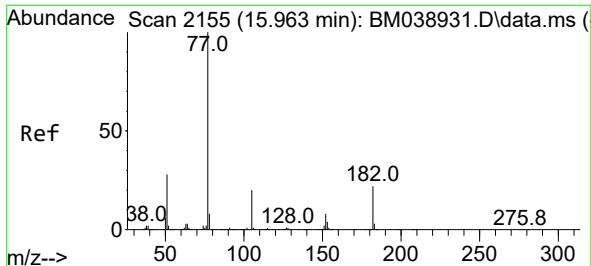
Tgt Ion: 65 Resp: 285  
Ion Ratio Lower Upper  
65 100  
92 93.7 54.9 82.3#  
138 0.0 81.6 122.4#



#57  
2,4-Dinitrotoluene  
Concen: 2.086 ng  
RT: 14.945 min Scan# 1982  
Delta R.T. -0.023 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:165 Resp: 177  
Ion Ratio Lower Upper  
165 100  
63 62.4 35.9 53.9#  
89 47.0 61.0 91.6#  
182 53.8 2.1 3.1#

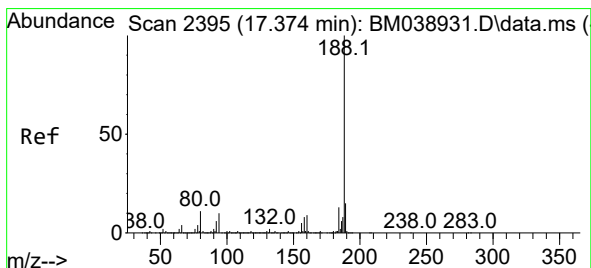
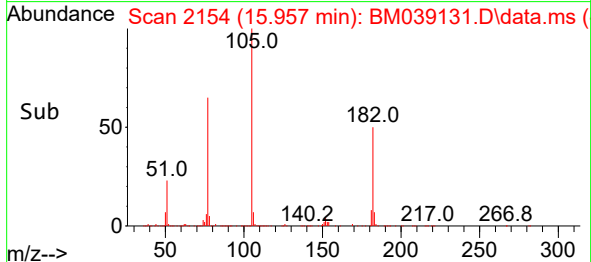
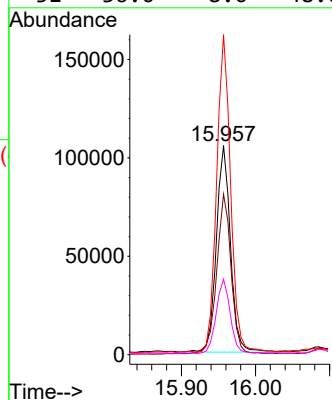
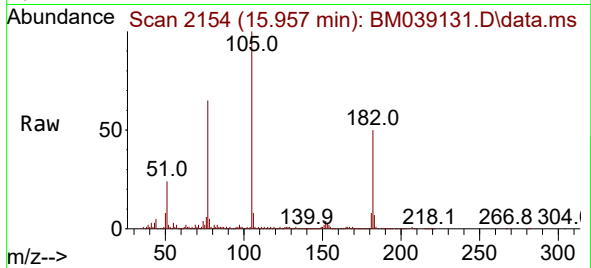




#63  
Azobenzene  
Concen: 3.320 ng  
RT: 15.957 min Scan# 2155  
Delta R.T. 0.018 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

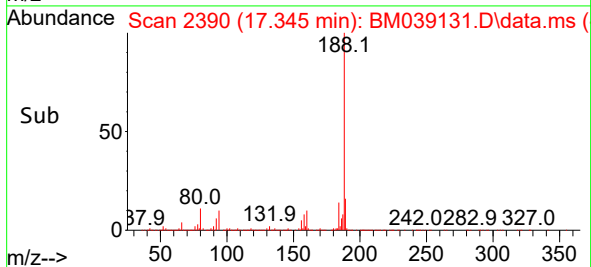
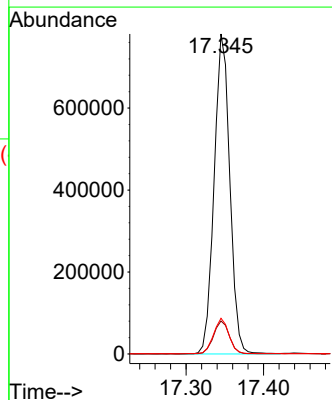
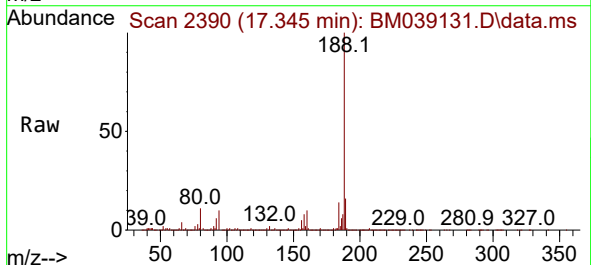
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

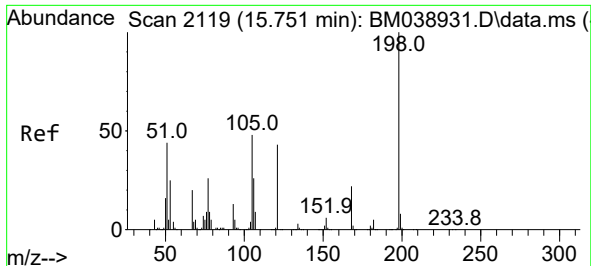
Tgt Ion: 77 Resp: 138870  
Ion Ratio Lower Upper  
77 100  
182 76.7 2.0 42.0#  
105 153.0 0.4 40.4#  
51 36.0 8.0 48.0



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.345 min Scan# 2390  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion: 188 Resp: 1096715  
Ion Ratio Lower Upper  
188 100  
94 10.3 7.9 11.9  
80 11.2 8.5 12.7

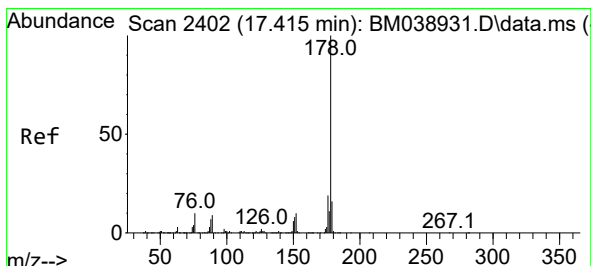
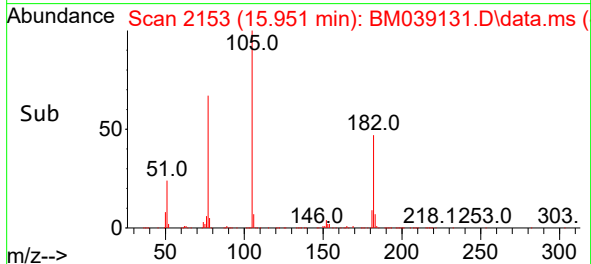
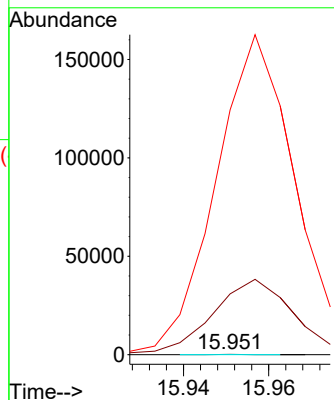
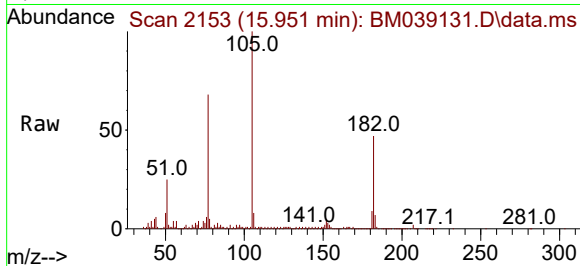




#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.097 ng  
RT: 15.951 min Scan# 2119  
Delta R.T. 0.218 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

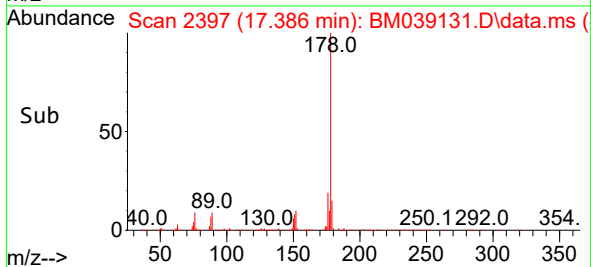
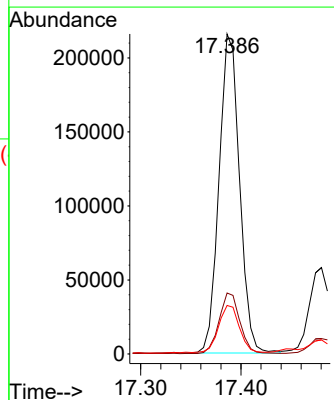
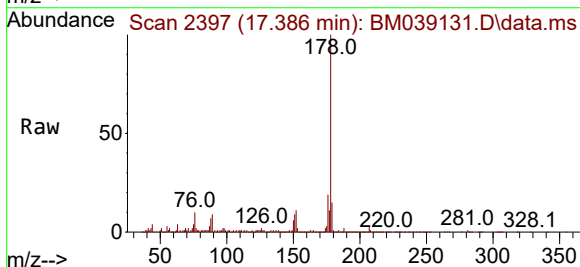
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

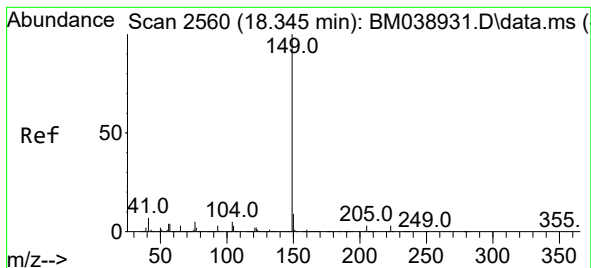
Tgt Ion:198 Resp: 67  
Ion Ratio Lower Upper  
198 100  
51 16163.4 30.1 70.1#  
105 65105.8 29.3 69.3#



#71  
Phenanthrene  
Concen: 4.740 ng  
RT: 17.386 min Scan# 2397  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:178 Resp: 305106  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.6 23.4  
179 15.2 12.5 18.7





#74

Di-n-butylphthalate

Concen: 2.087 ng

RT: 18.310 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423

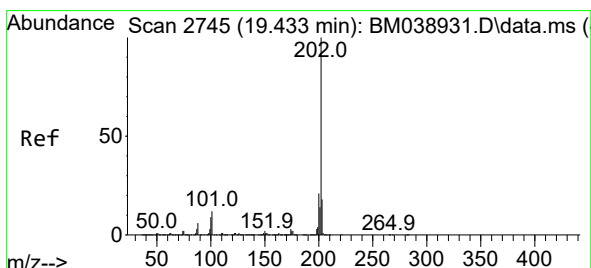
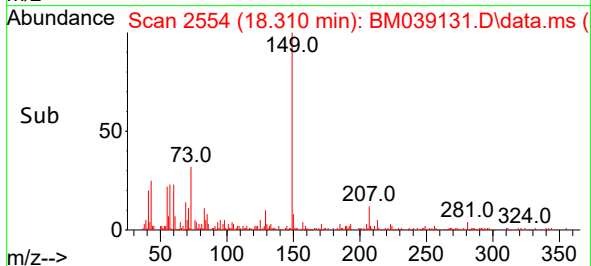
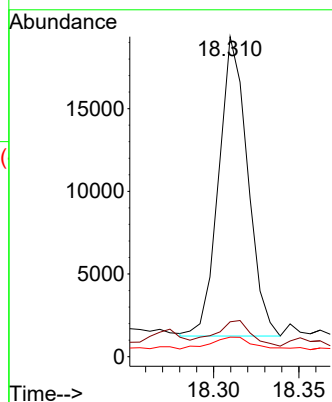
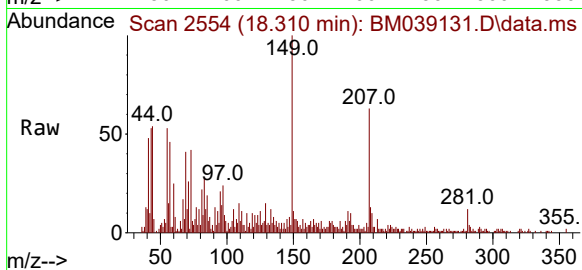
Tgt Ion:149 Resp: 21394

Ion Ratio Lower Upper

149 100

150 10.9 7.4 11.2

104 6.1 4.3 6.5



#75

Fluoranthene

Concen: 11.183 ng

RT: 19.404 min Scan# 2740

Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

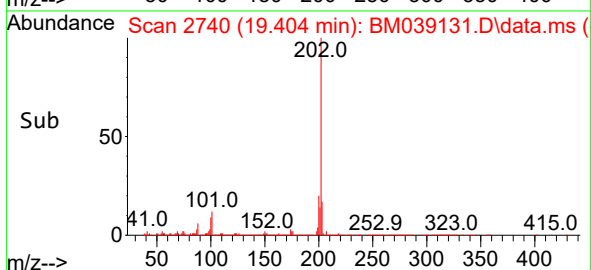
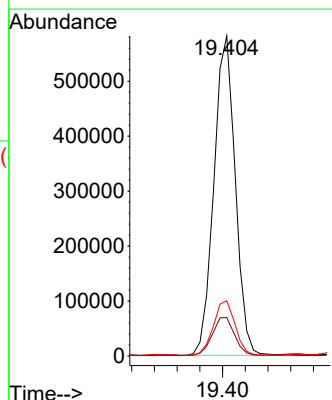
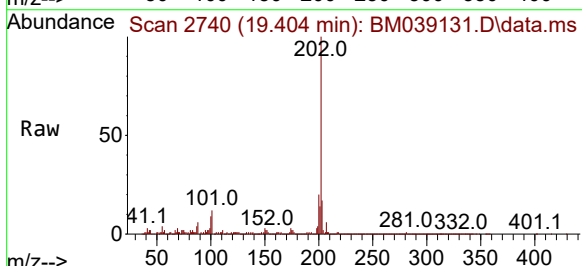
Tgt Ion:202 Resp: 760008

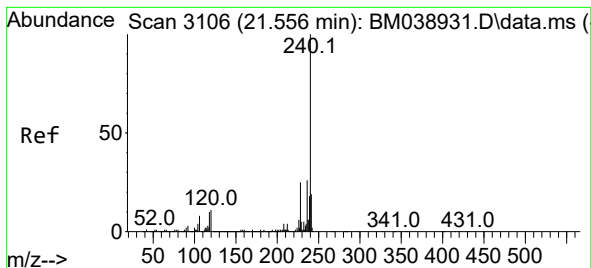
Ion Ratio Lower Upper

202 100

101 12.0 0.0 31.7

203 17.3 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.521 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423

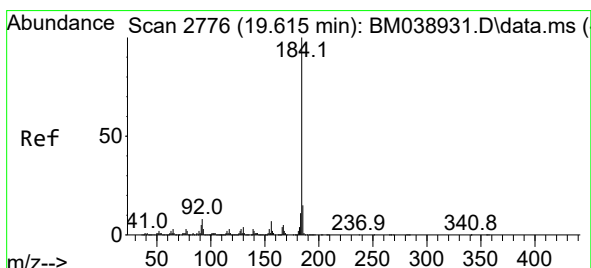
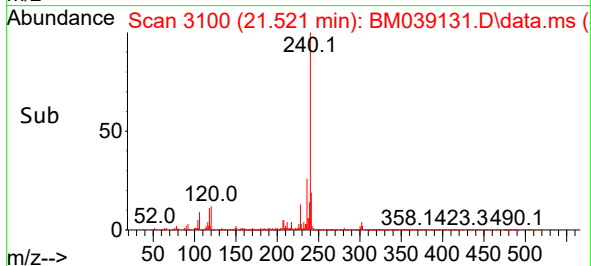
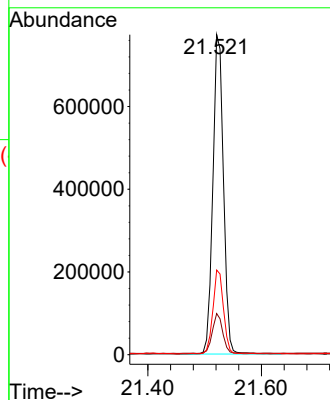
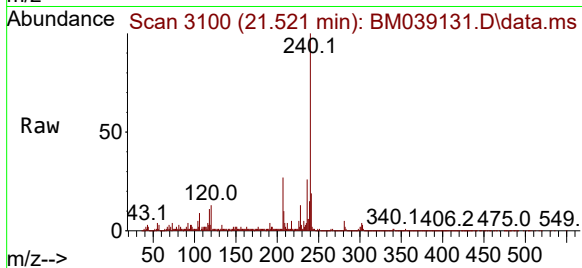
Tgt Ion:240 Resp: 993185

Ion Ratio Lower Upper

240 100

120 12.9 9.2 13.8

236 26.5 20.8 31.2



#77

Benzidine

Concen: 4.899 ng

RT: 19.574 min Scan# 2769

Delta R.T. -0.017 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

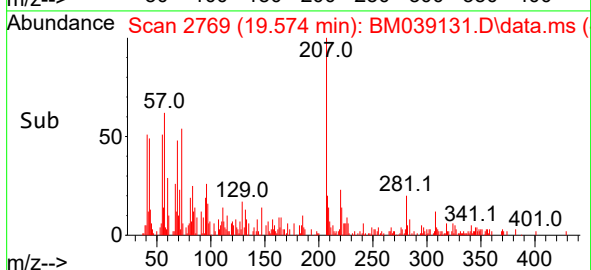
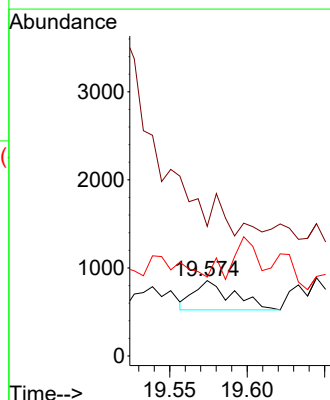
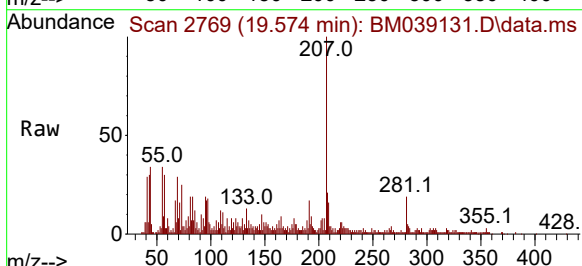
Tgt Ion:184 Resp: 574

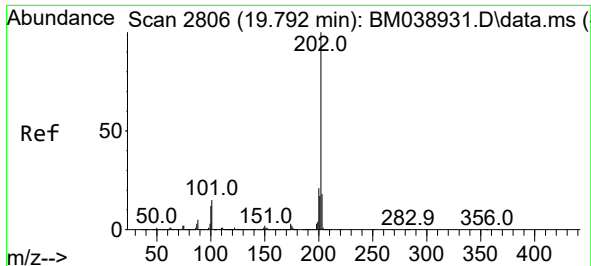
Ion Ratio Lower Upper

184 100

185 171.8 12.2 18.4#

183 104.6 8.8 13.2#

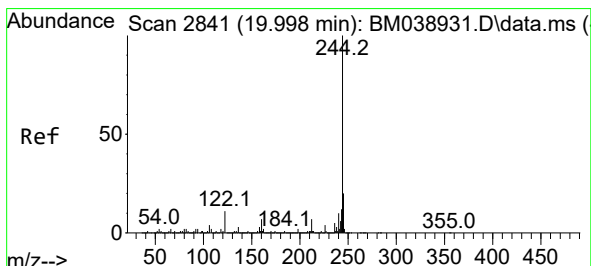
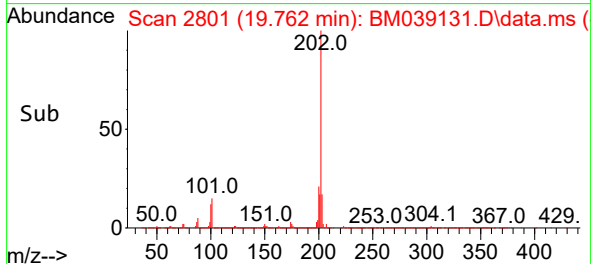
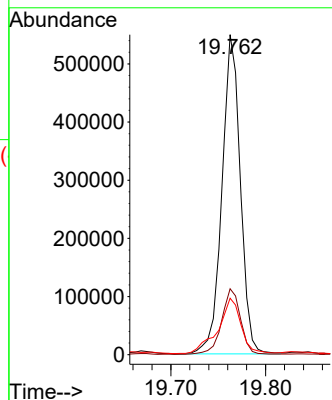
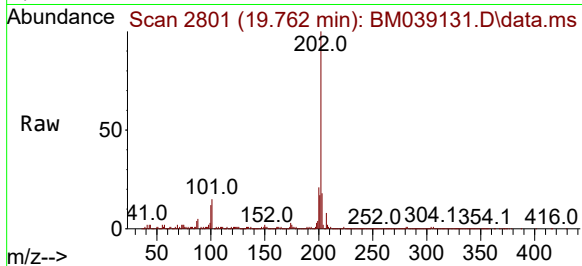




#78  
 Pyrene  
 Concen: 9.942 ng  
 RT: 19.762 min Scan# 2806  
 Delta R.T. -0.006 min  
 Lab File: BM039131.D  
 Acq: 24 Mar 2023 00:29

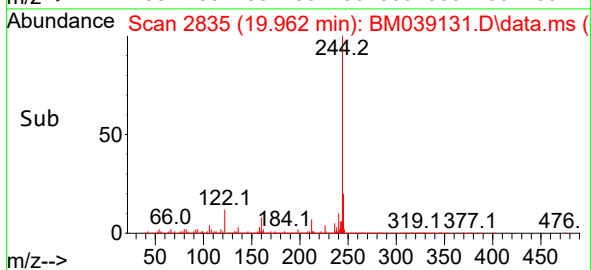
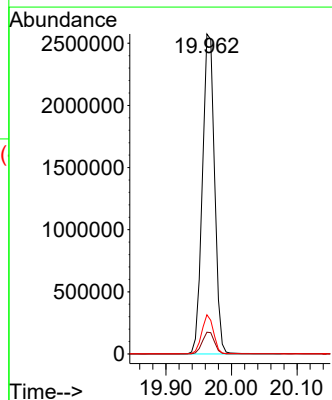
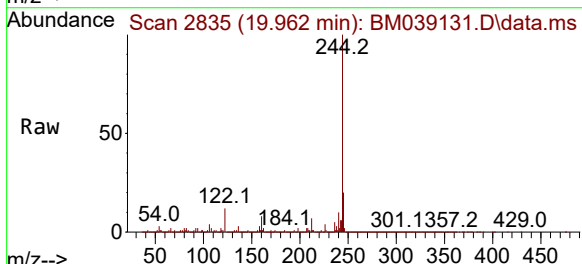
Instrument :  
 BNA\_M  
 ClientSampleId :  
 CE-86B-031423

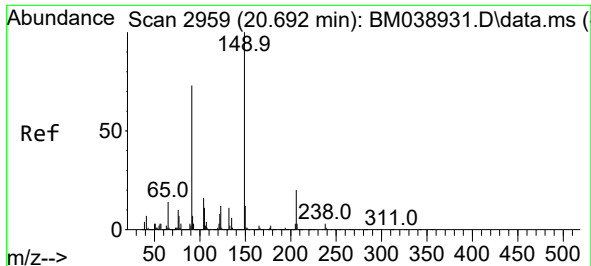
Tgt Ion:202 Resp: 741631  
 Ion Ratio Lower Upper  
 202 100  
 200 20.6 17.1 25.7  
 203 17.7 14.1 21.1



#79  
 Terphenyl-d14  
 Concen: 61.301 ng  
 RT: 19.962 min Scan# 2835  
 Delta R.T. -0.006 min  
 Lab File: BM039131.D  
 Acq: 24 Mar 2023 00:29

Tgt Ion:244 Resp: 3329961  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.5 8.3  
 122 12.2 9.0 13.4

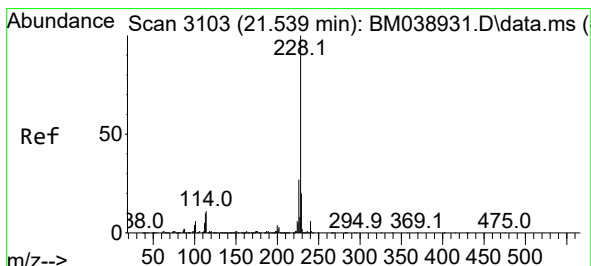
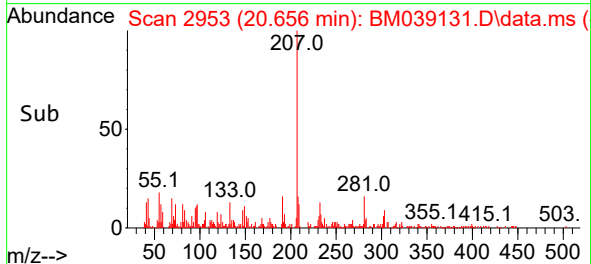
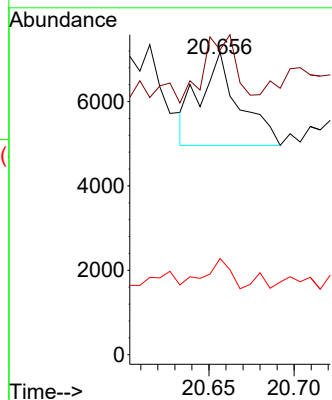
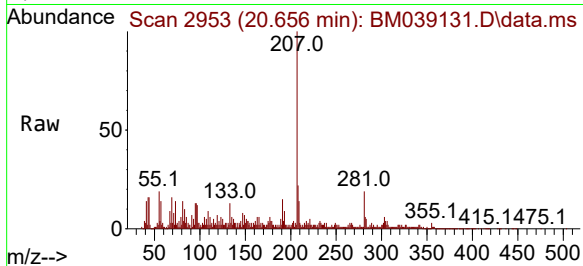




#80  
Butylbenzylphthalate  
Concen: 3.420 ng  
RT: 20.656 min Scan# 2953  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

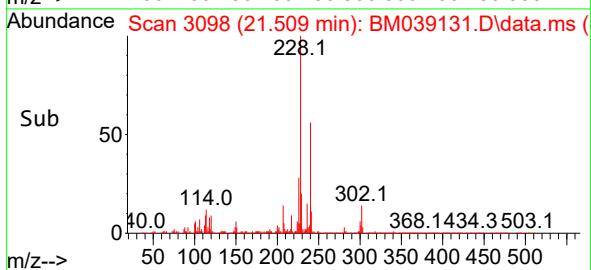
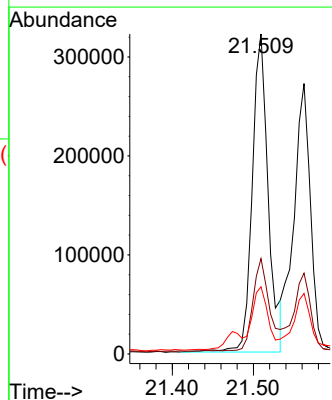
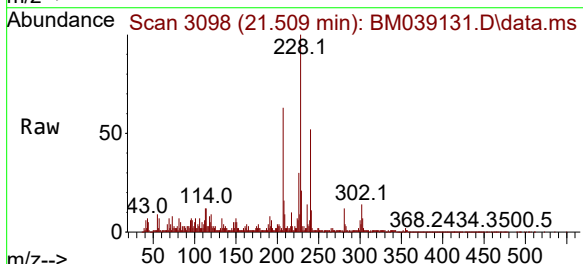
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

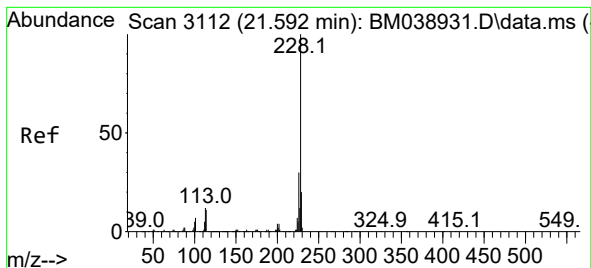
Tgt Ion:149 Resp: 3549  
Ion Ratio Lower Upper  
149 100  
91 100.7 58.4 87.6#  
206 31.8 16.1 24.1#



#81  
Benzo(a)anthracene  
Concen: 6.173 ng  
RT: 21.509 min Scan# 3098  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:228 Resp: 441546  
Ion Ratio Lower Upper  
228 100  
226 29.8 21.4 32.2  
229 21.0 15.7 23.5





#83

Chrysene

Concen: 5.581 ng

RT: 21.562 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423

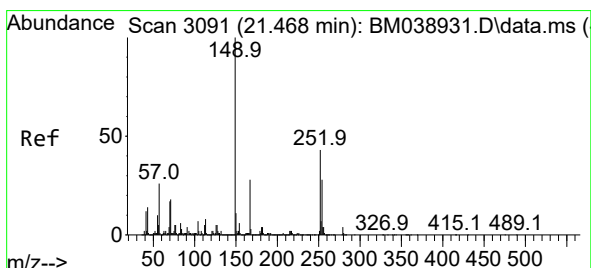
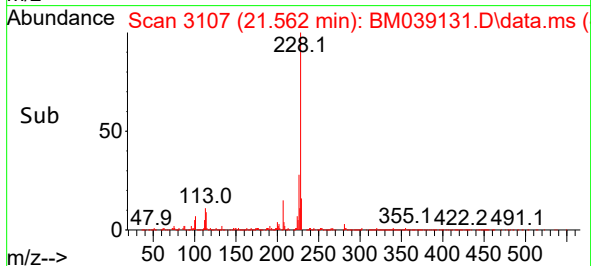
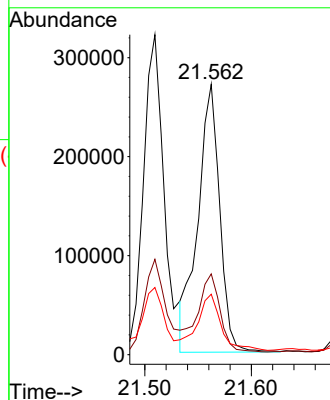
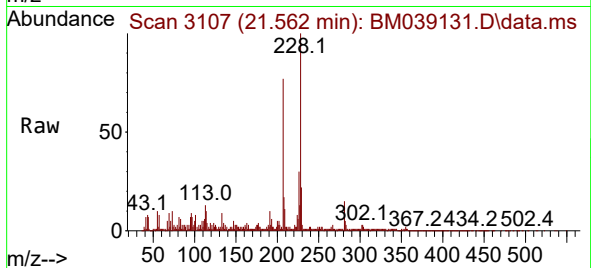
Tgt Ion:228 Resp: 388233

Ion Ratio Lower Upper

228 100

226 29.9 24.0 36.0

229 22.4 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 9.073 ng

RT: 21.433 min Scan# 3085

Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

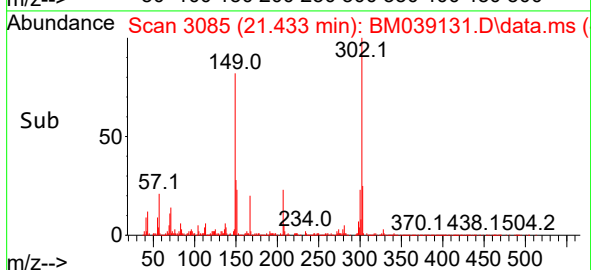
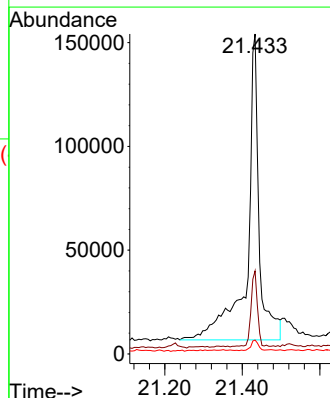
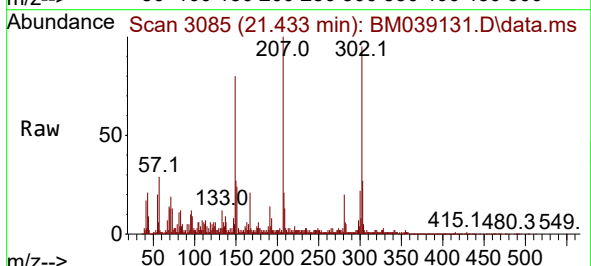
Tgt Ion:149 Resp: 318633

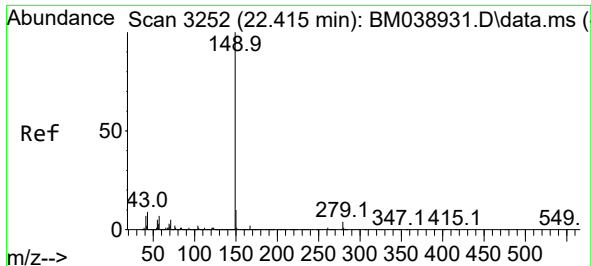
Ion Ratio Lower Upper

149 100

167 26.0 22.3 33.5

279 4.3 3.2 4.8

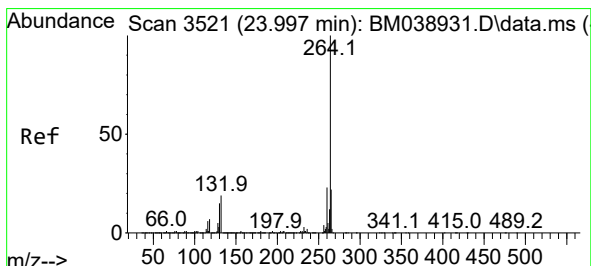
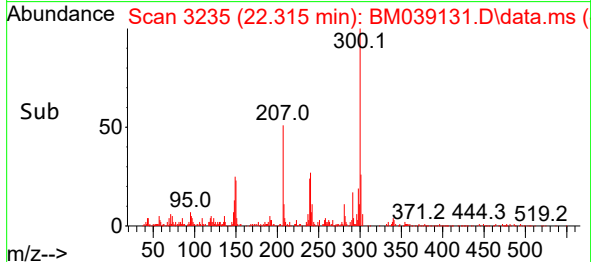
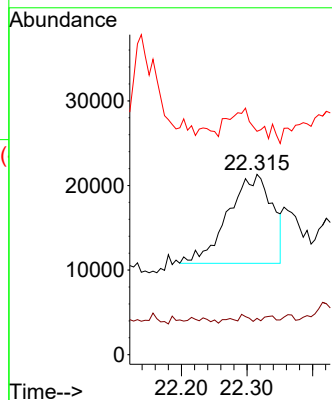
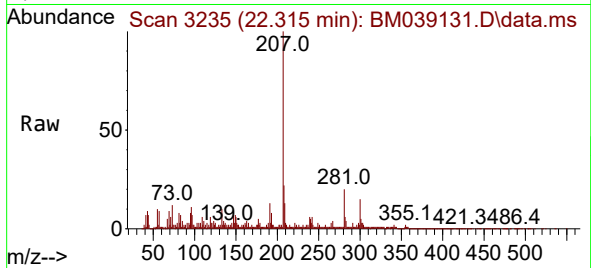




#85  
Di-n-octyl phthalate  
Concen: 4.390 ng  
RT: 22.315 min Scan# 311  
Delta R.T. -0.059 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

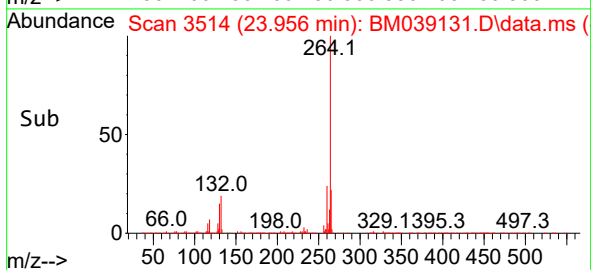
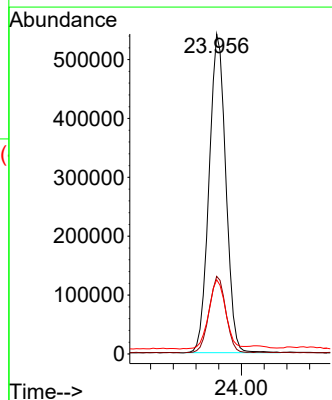
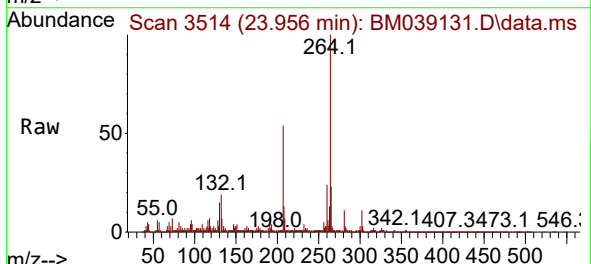
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

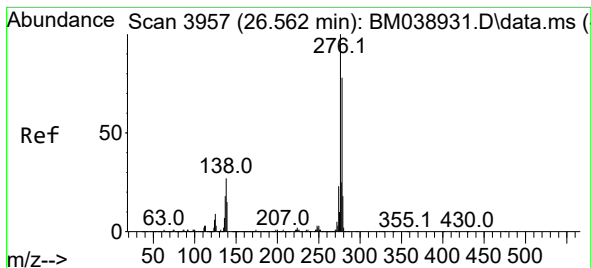
Tgt Ion:149 Resp: 49058  
Ion Ratio Lower Upper  
149 100  
167 0.0 1.2 1.8#  
43 0.0 7.4 11.2#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.956 min Scan# 3514  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:264 Resp: 1103442  
Ion Ratio Lower Upper  
264 100  
260 24.2 18.7 28.1  
265 23.2 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.215 ng

RT: 26.486 min Scan# 3944

Delta R.T. -0.012 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423

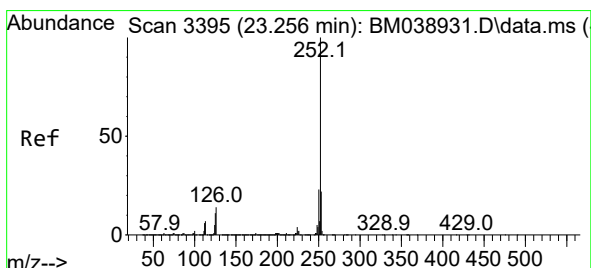
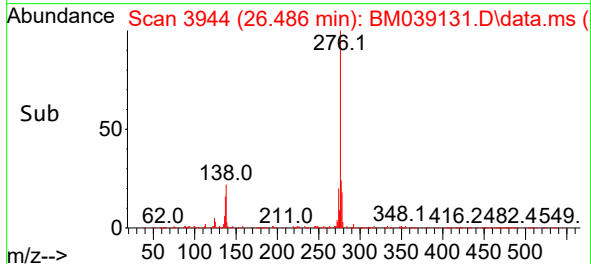
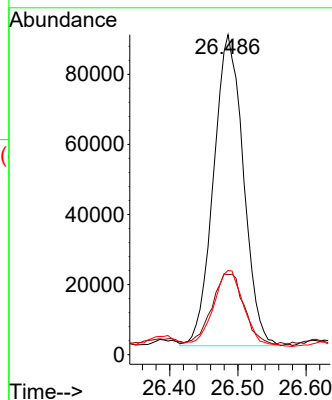
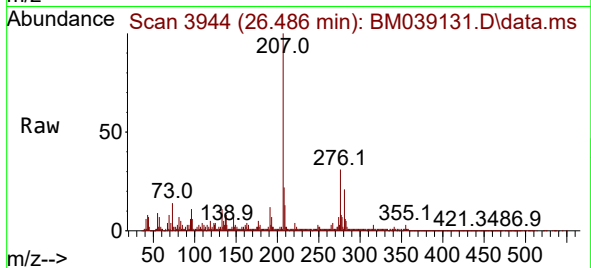
Tgt Ion:276 Resp: 269958

Ion Ratio Lower Upper

276 100

138 24.0 22.1 33.1

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 7.827 ng

RT: 23.215 min Scan# 3388

Delta R.T. -0.006 min

Lab File: BM039131.D

Acq: 24 Mar 2023 00:29

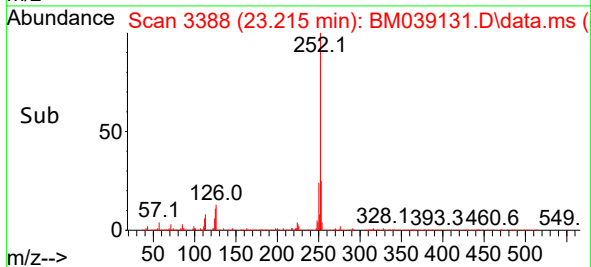
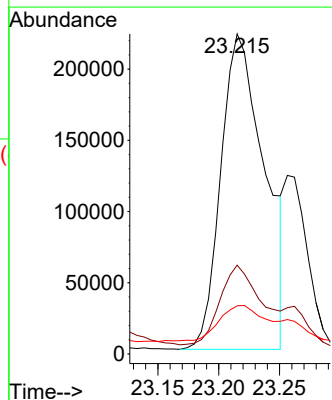
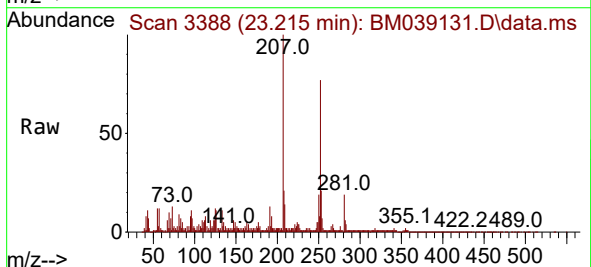
Tgt Ion:252 Resp: 551768

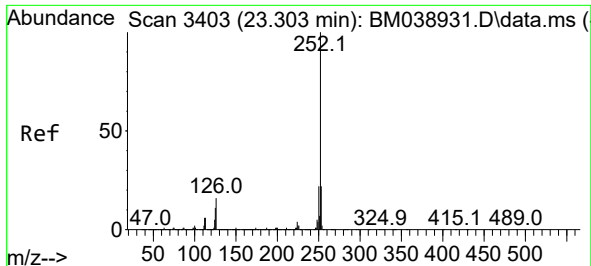
Ion Ratio Lower Upper

252 100

253 27.8 17.6 26.4#

125 15.0 8.8 13.2#

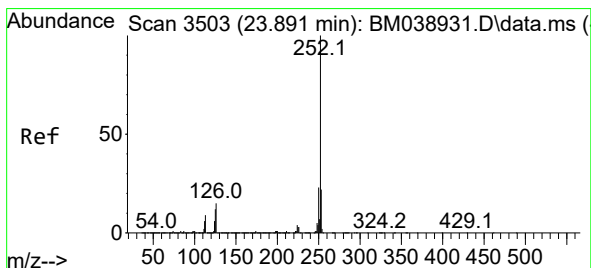
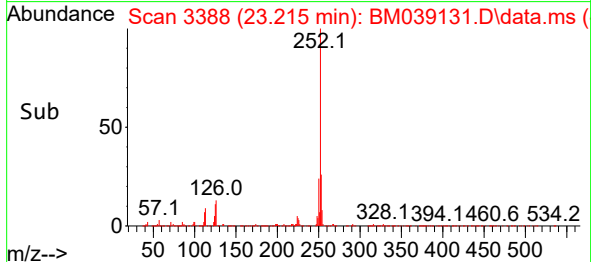
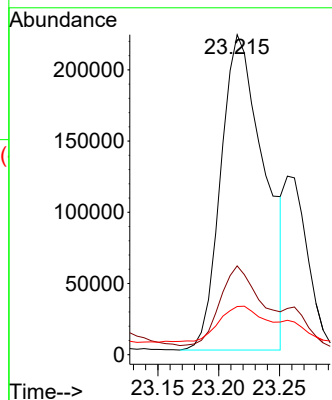
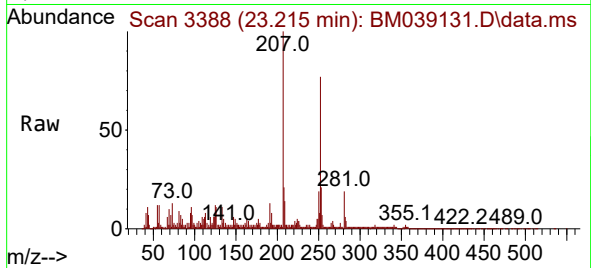




#89  
Benzo(k)fluoranthene  
Concen: 7.521 ng  
RT: 23.215 min Scan# 31  
Delta R.T. -0.053 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

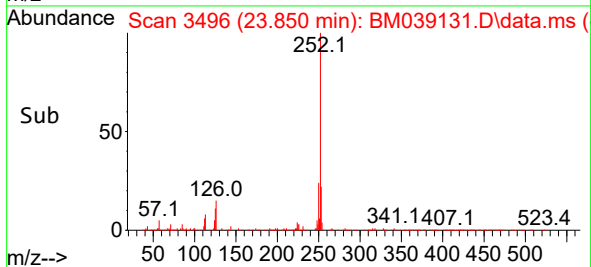
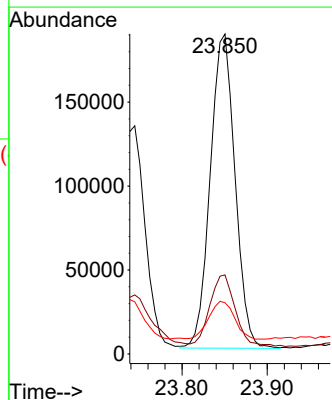
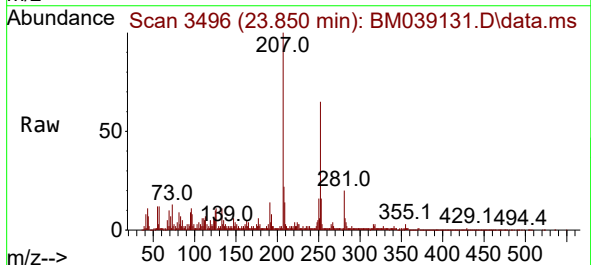
Instrument :  
BNA\_M  
ClientSampleId :  
CE-86B-031423

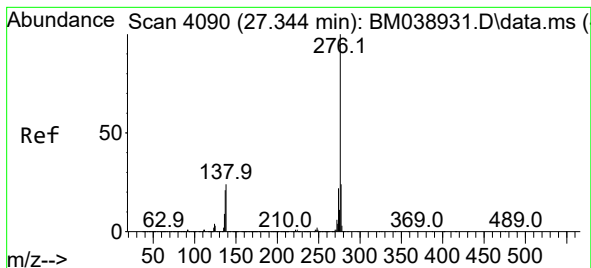
Tgt Ion:252 Resp: 551768  
Ion Ratio Lower Upper  
252 100  
253 27.8 17.5 26.3#  
125 15.0 8.9 13.3#



#90  
Benzo(a)pyrene  
Concen: 5.569 ng  
RT: 23.850 min Scan# 3496  
Delta R.T. -0.006 min  
Lab File: BM039131.D  
Acq: 24 Mar 2023 00:29

Tgt Ion:252 Resp: 377831  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.6 26.4  
125 16.0 9.8 14.8#





#92

Benzo(g,h,i)perylene

Concen: 3.896 ng

RT: 27.274 min Scan# 40

Delta R.T. 0.000 min

Lab File: BM039131.D

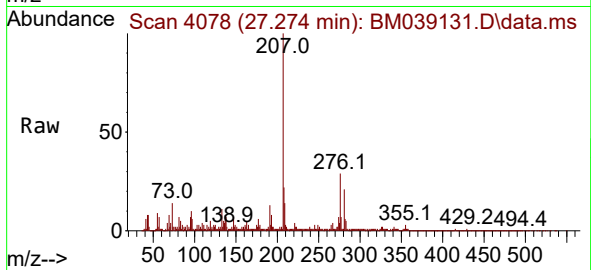
Acq: 24 Mar 2023 00:29

Instrument :

BNA\_M

ClientSampleId :

CE-86B-031423



Tgt Ion:276 Resp: 271022

Ion Ratio Lower Upper

276 100

277 25.8 19.3 28.9

138 24.6 19.0 28.6

