

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM033121\  
 Data File : BM029298.D  
 Acq On : 31 Mar 2021 17:42  
 Operator : CG/JU  
 Sample : M1720-01DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BG-1-(0.0-0.5)DL

Quant Time: Mar 31 18:22:27 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM032621.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 29 11:14:33 2021  
 Response via : Initial Calibration

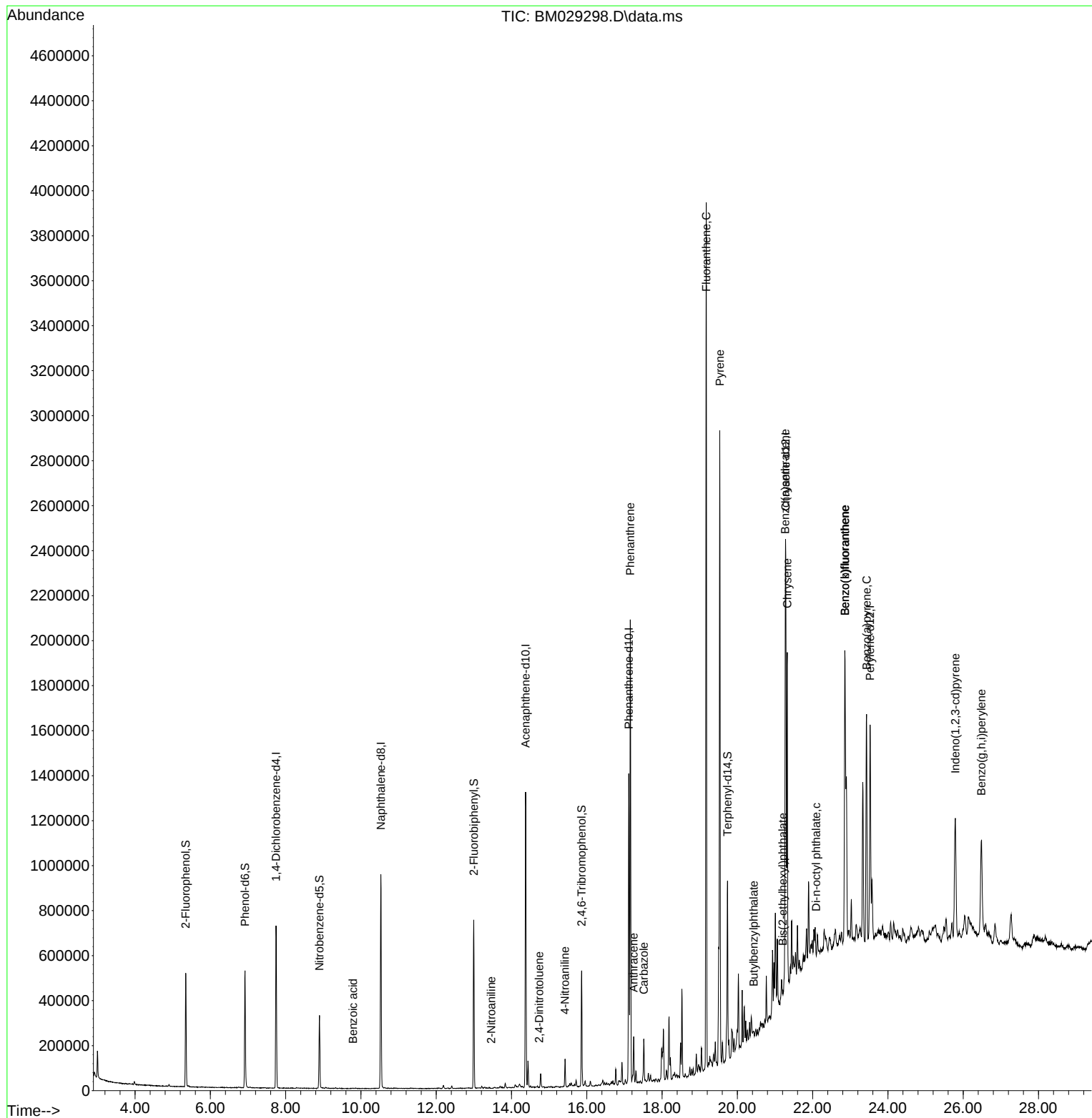
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.745  | 152  | 181515   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.528 | 136  | 731037   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.374 | 164  | 427843   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.115 | 188  | 735990   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.286 | 240  | 571900   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12              | 23.527 | 264  | 593344   | 20.00 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.346  | 112  | 192413   | 18.27 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.922  | 99   | 263084   | 17.41 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.898  | 82   | 186793   | 12.41 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.863 | 330  | 66766    | 16.85 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.998 | 172  | 350183   | 11.61 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.739 | 244  | 321086   | 11.28 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 32) Benzoic acid              | 9.792  | 122  | 60       | 4.48  | ng    | # 54     |
| 48) 2-Nitroaniline            | 13.463 | 65   | 65       | 3.29  | ng    | # 9      |
| 57) 2,4-Dinitrotoluene        | 14.739 | 165  | 129      | 3.18  | ng    | # 9      |
| 62) 4-Nitroaniline            | 15.421 | 138  | 560      | 3.65  | ng    | # 11     |
| 71) Phenanthrene              | 17.157 | 178  | 1146956  | 26.87 | ng    | 99       |
| 72) Anthracene                | 17.245 | 178  | 120715   | 2.91  | ng    | 99       |
| 73) Carbazole                 | 17.515 | 167  | 114772   | 2.81  | ng    | 98       |
| 75) Fluoranthene              | 19.174 | 202  | 2059087  | 43.67 | ng    | 99       |
| 78) Pyrene                    | 19.533 | 202  | 1587468  | 41.00 | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.433 | 149  | 1614     | 3.68  | ng    | # 65     |
| 81) Benzo(a)anthracene        | 21.274 | 228  | 656078   | 17.58 | ng    | 98       |
| 83) Chrysene                  | 21.327 | 228  | 735205   | 19.69 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.209 | 149  | 4284     | 3.75  | ng    | # 92     |
| 85) Di-n-octyl phthalate      | 22.097 | 149  | 1187     | 4.09  | ng    | # 65     |
| 87) Indeno(1,2,3-cd)pyrene    | 25.791 | 276  | 486538   | 11.21 | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 22.862 | 252  | 1007640  | 26.10 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 22.862 | 252  | 1007640  | 26.87 | ng    | 99       |
| 90) Benzo(a)pyrene            | 23.433 | 252  | 657641   | 18.81 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 26.485 | 276  | 468053   | 12.86 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

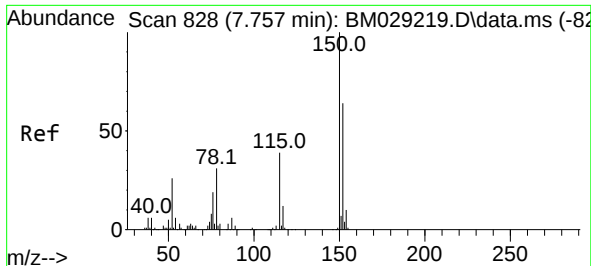
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

Quant Time: Mar 31 18:22:27 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM032621.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 29 11:14:33 2021  
Response via : Initial Calibration

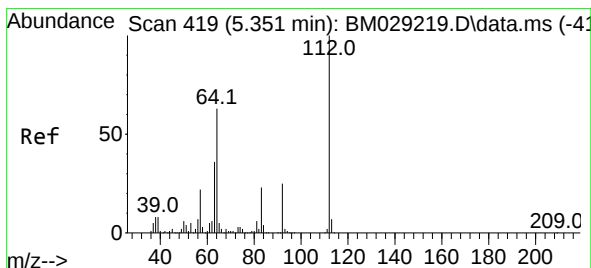
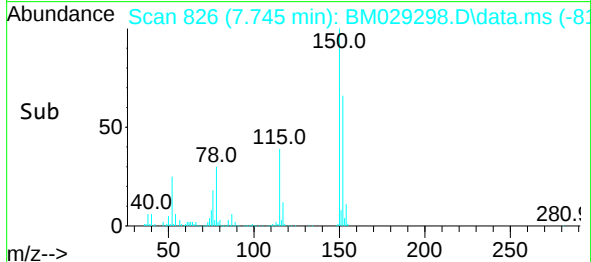
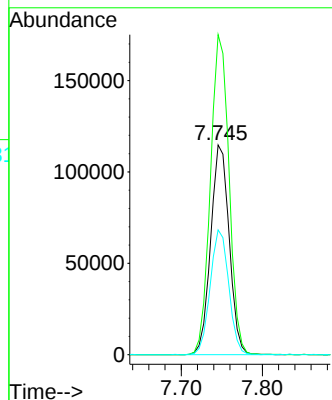
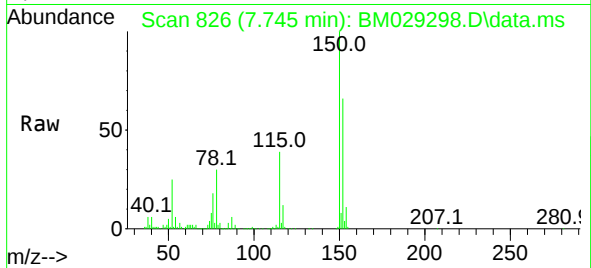




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.745 min Scan# 826  
Delta R.T. -0.007 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

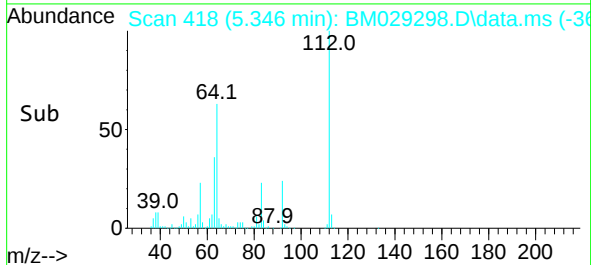
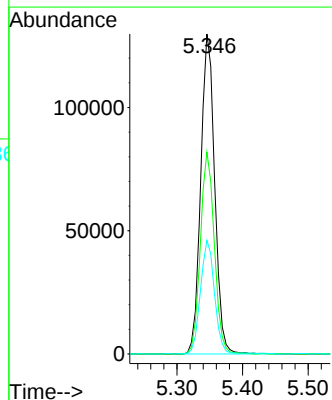
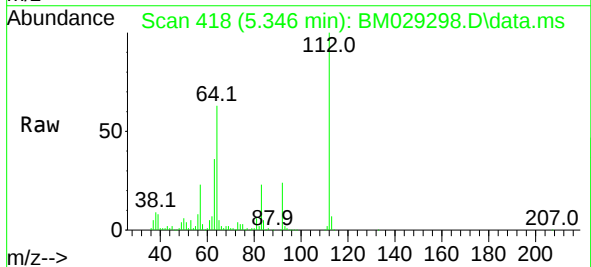
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

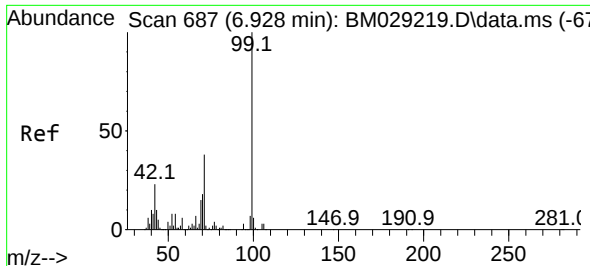
Tgt Ion:152 Resp: 181515  
Ion Ratio Lower Upper  
152 100  
150 152.6 124.3 186.5  
115 59.5 46.4 69.6



#5  
2-Fluorophenol  
Concen: 18.27 ng  
RT: 5.346 min Scan# 418  
Delta R.T. -0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Tgt Ion:112 Resp: 192413  
Ion Ratio Lower Upper  
112 100  
64 63.1 51.6 77.4  
63 35.5 29.0 43.4

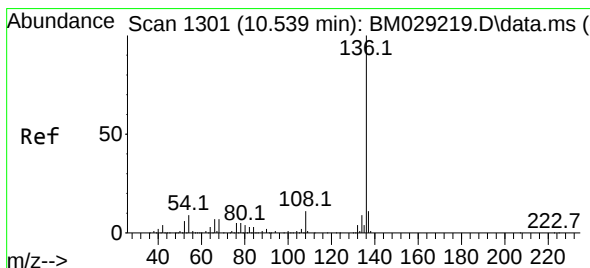
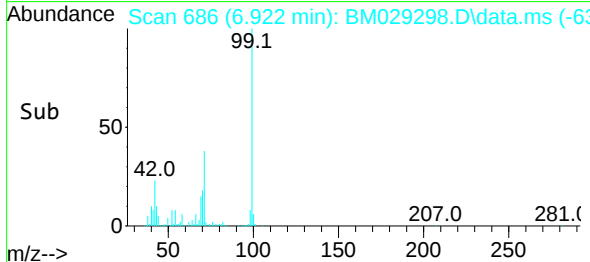
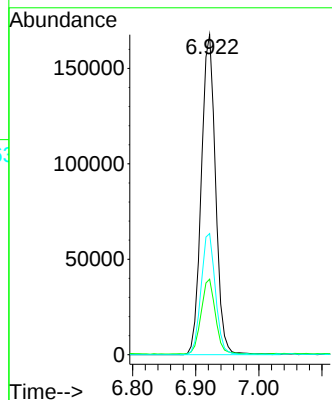
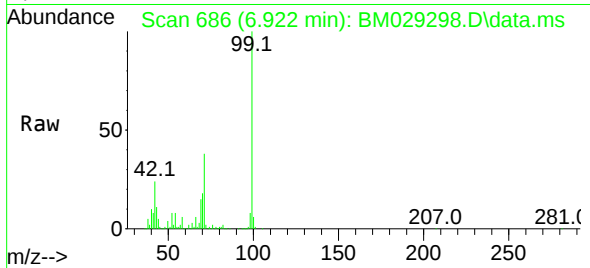




#7  
Phenol-d6  
Concen: 17.41 ng  
RT: 6.922 min Scan# 686  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

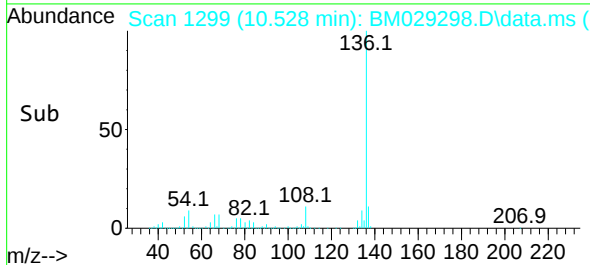
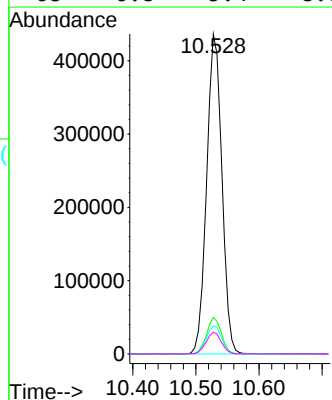
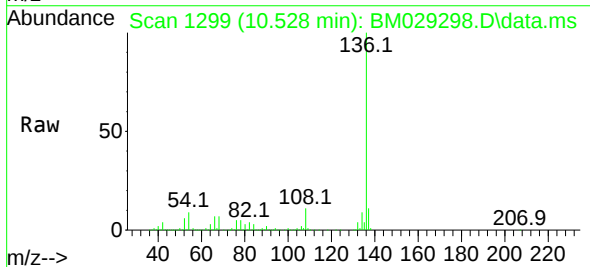
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

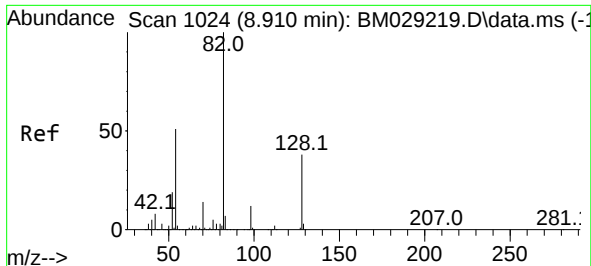
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 263084 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 23.6  | 18.5  | 27.7   |
| 71       | 37.8  | 31.8  | 47.6   |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.528 min Scan# 1299  
Delta R.T. -0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 731037 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 9.3   | 13.9   |
| 54       | 8.7   | 6.9   | 10.3   |
| 68       | 6.8   | 5.4   | 8.0    |

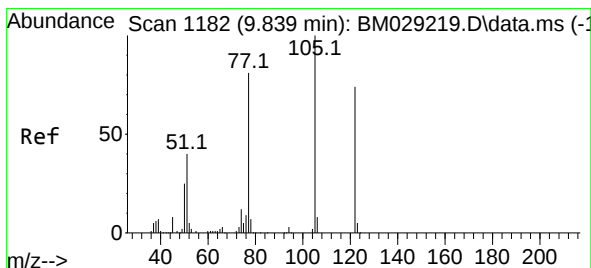
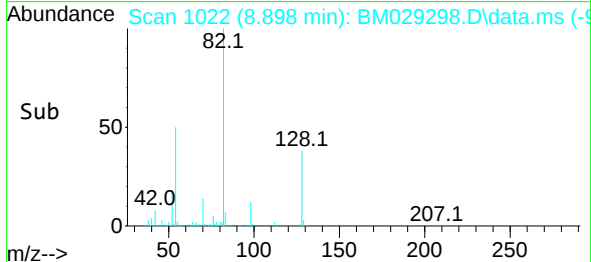
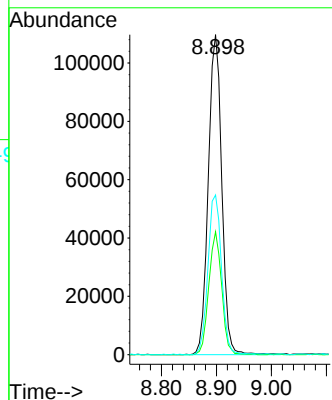
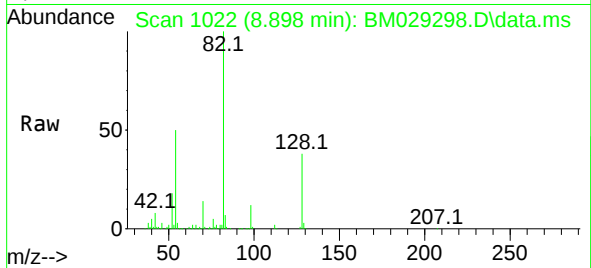




#23  
Nitrobenzene-d5  
Concen: 12.41 ng  
RT: 8.898 min Scan# 1022  
Delta R.T. -0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

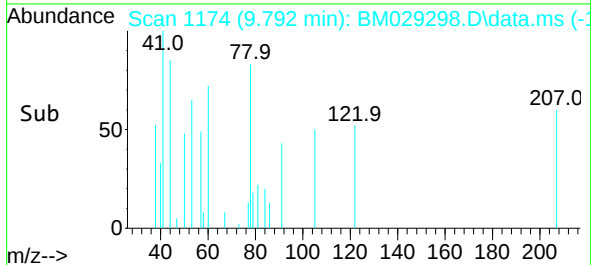
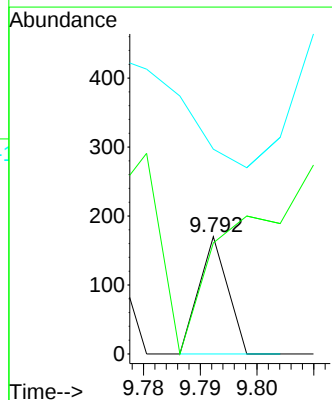
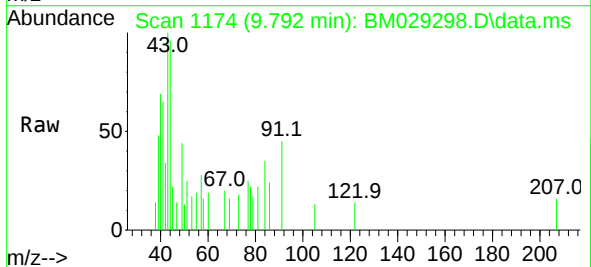
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

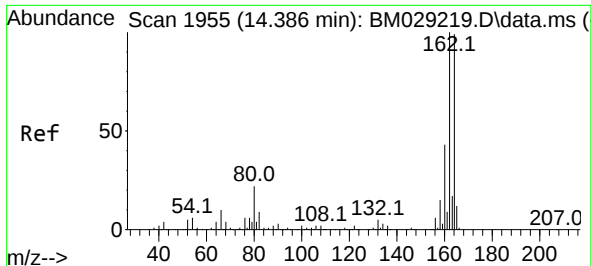
Tgt Ion: 82 Resp: 186793  
Ion Ratio Lower Upper  
82 100  
128 38.4 28.6 42.8  
54 49.9 40.7 61.1



#32  
Benzoic acid  
Concen: 4.48 ng  
RT: 9.792 min Scan# 1174  
Delta R.T. -0.036 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

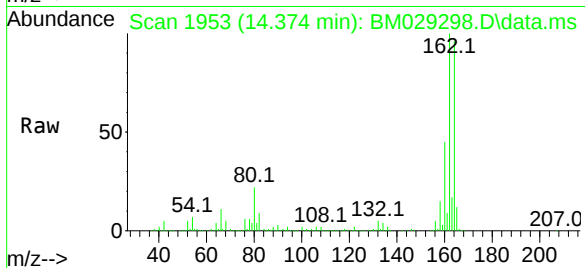
Tgt Ion:122 Resp: 60  
Ion Ratio Lower Upper  
122 100  
105 94.7 108.2 148.2#  
77 174.7 86.0 126.0#



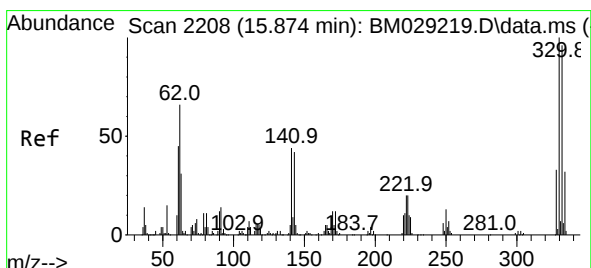
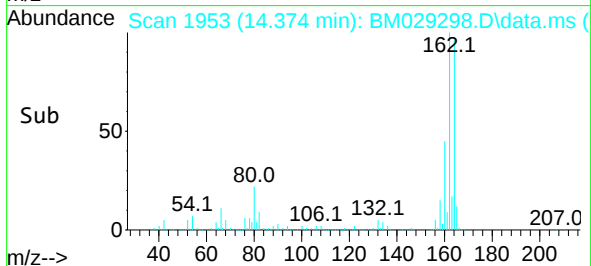
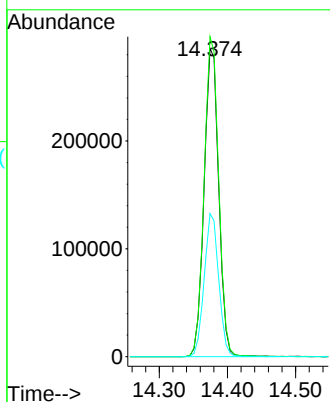


#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.374 min Scan# 1953  
Delta R.T. -0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

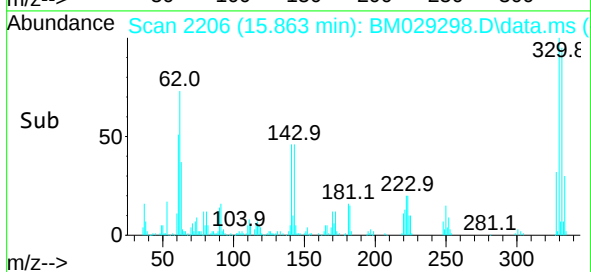
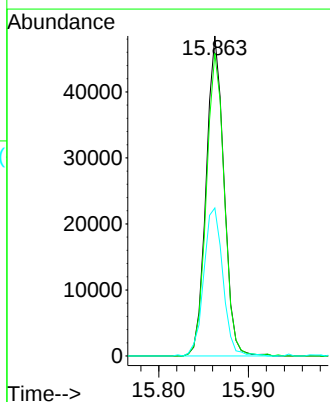
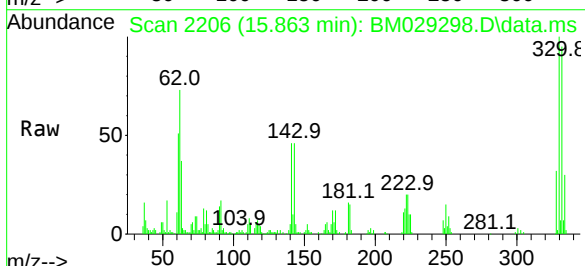


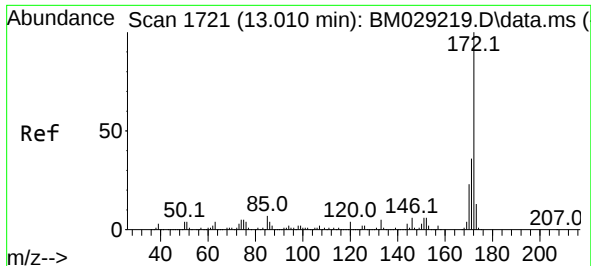
Tgt Ion:164 Resp: 427843  
Ion Ratio Lower Upper  
164 100  
162 103.8 84.4 126.6  
160 46.4 36.6 54.8



#42  
2,4,6-Tribromophenol  
Concen: 16.85 ng  
RT: 15.863 min Scan# 2206  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

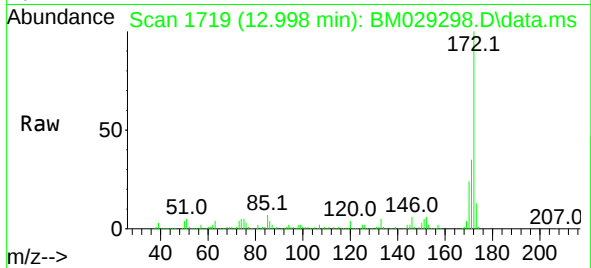
Tgt Ion:330 Resp: 66766  
Ion Ratio Lower Upper  
330 100  
332 95.5 77.1 115.7  
141 49.8 39.2 58.8



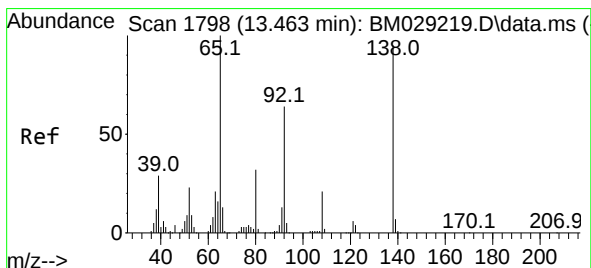
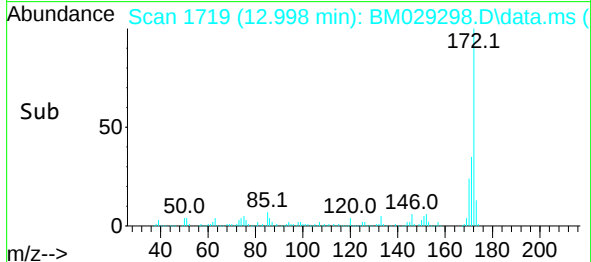
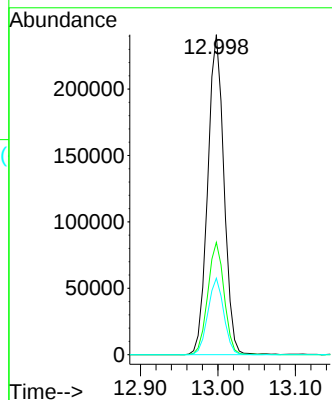


#45  
2-Fluorobiphenyl  
Concen: 11.61 ng  
RT: 12.998 min Scan# 1719  
Delta R.T. -0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Instrument :  
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ClientSampleId :  
BG-1-(0.0-0.5)DL

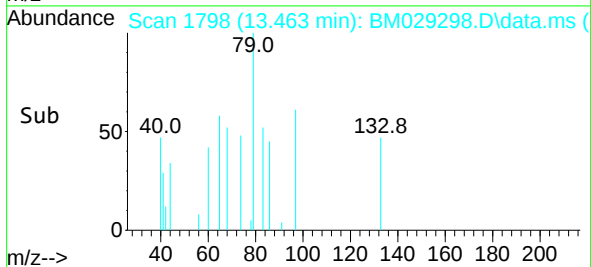
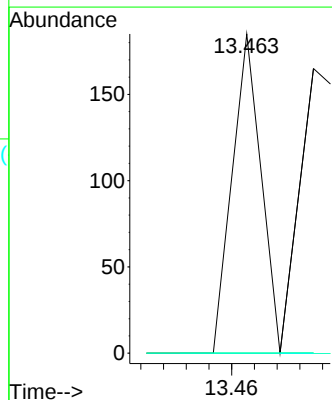
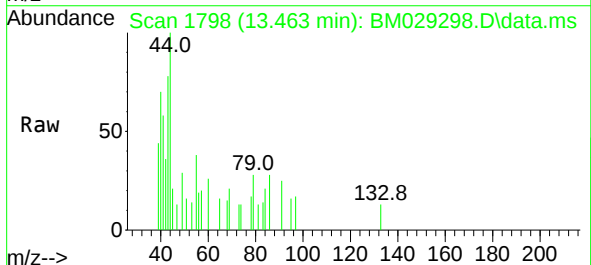


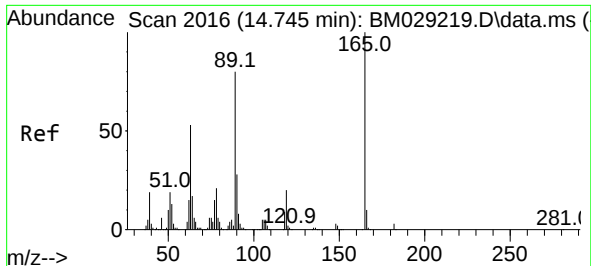
Tgt Ion:172 Resp: 350183  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.7 43.1  
170 23.9 18.8 28.2



#48  
2-Nitroaniline  
Concen: 3.29 ng  
RT: 13.463 min Scan# 1798  
Delta R.T. 0.011 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

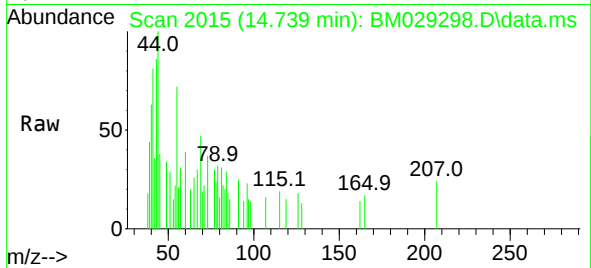
Tgt Ion: 65 Resp: 65  
Ion Ratio Lower Upper  
65 100  
92 0.0 52.4 78.6#  
138 0.0 75.0 112.6#



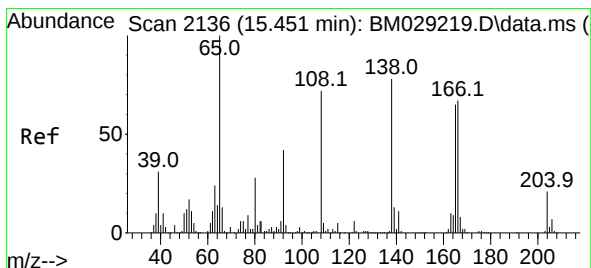
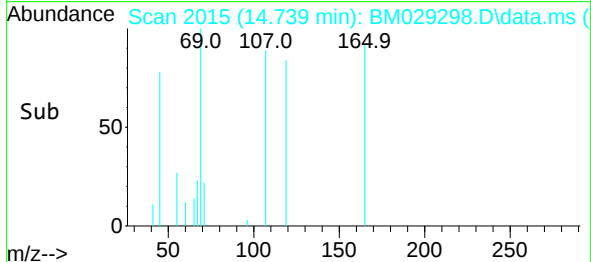
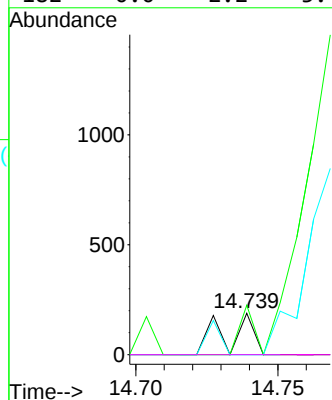


#57  
2,4-Dinitrotoluene  
Concen: 3.18 ng  
RT: 14.739 min Scan# 2015  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

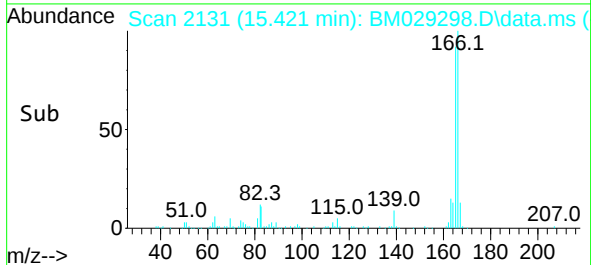
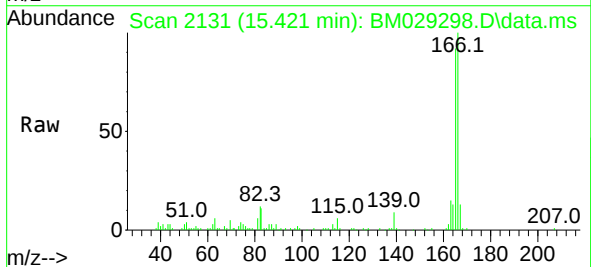
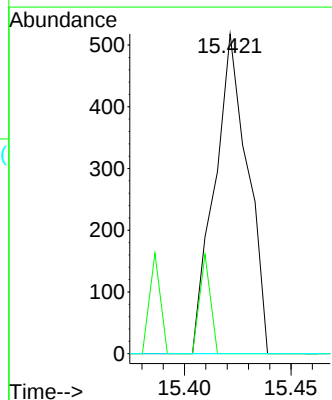


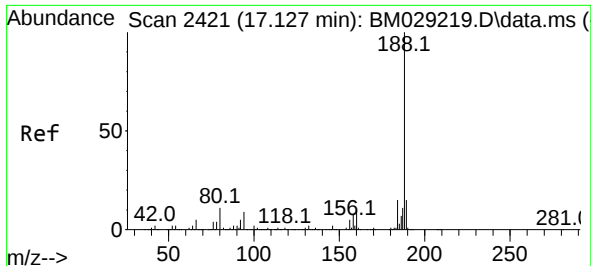
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|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 129   |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 119.7 | 42.2  | 63.4# |
| 89       | 0.0   | 65.6  | 98.4# |
| 182      | 0.0   | 2.2   | 3.4#  |



#62  
4-Nitroaniline  
Concen: 3.65 ng  
RT: 15.421 min Scan# 2131  
Delta R.T. -0.018 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 138   | Resp: | 560    |
| Ion      | Ratio | Lower | Upper  |
| 138      | 100   |       |        |
| 92       | 0.0   | 38.2  | 78.2#  |
| 108      | 0.0   | 71.7  | 111.7# |

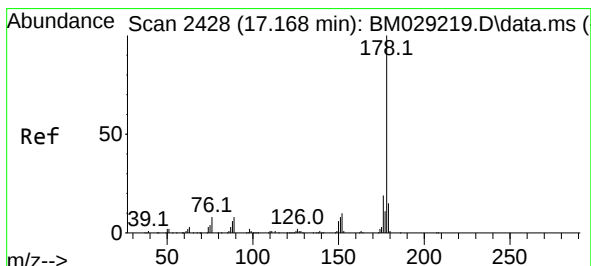
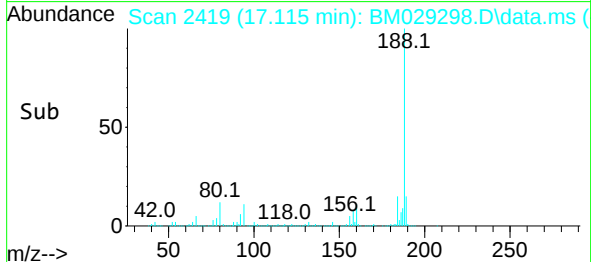
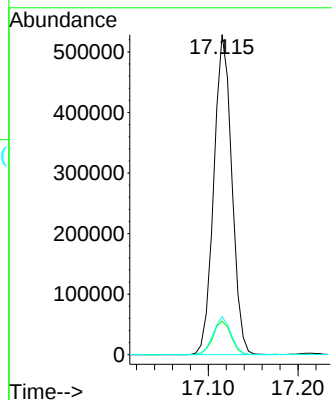
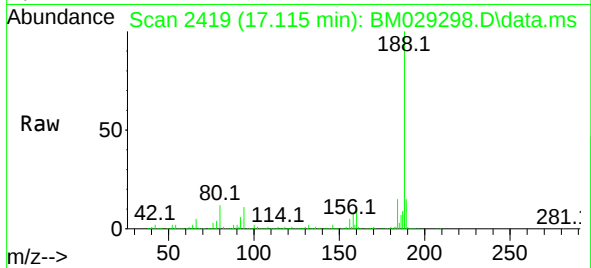




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.115 min Scan# 2419  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

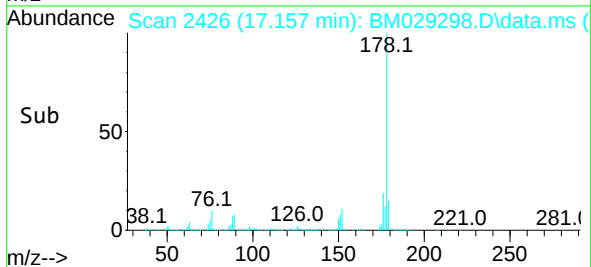
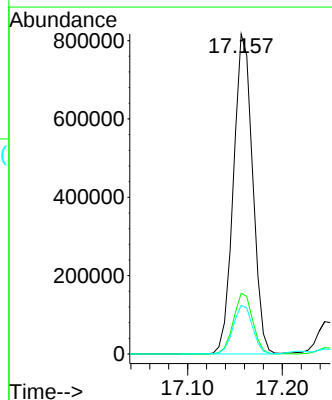
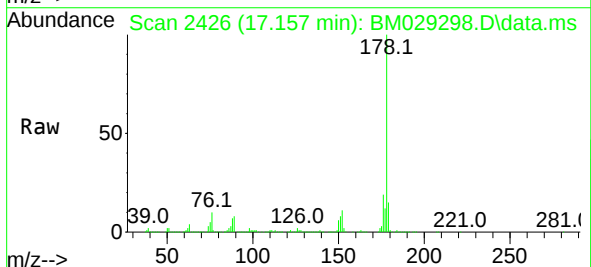
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

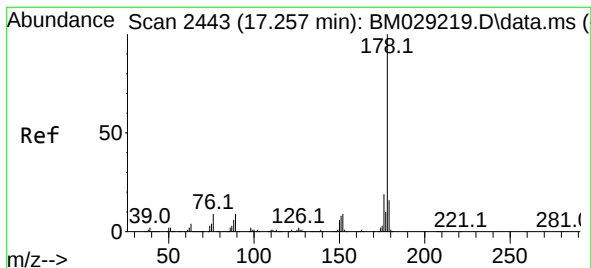
Tgt Ion:188 Resp: 735990  
Ion Ratio Lower Upper  
188 100  
94 10.5 8.1 12.1  
80 11.9 9.2 13.8



#71  
Phenanthrene  
Concen: 26.87 ng  
RT: 17.157 min Scan# 2426  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Tgt Ion:178 Resp: 1146956  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.7 23.5  
179 15.2 11.9 17.9





#72

Anthracene

Concen: 2.91 ng

RT: 17.245 min Scan# 2441

Delta R.T. -0.000 min

Lab File: BM029298.D

Acq: 31 Mar 2021 17:42

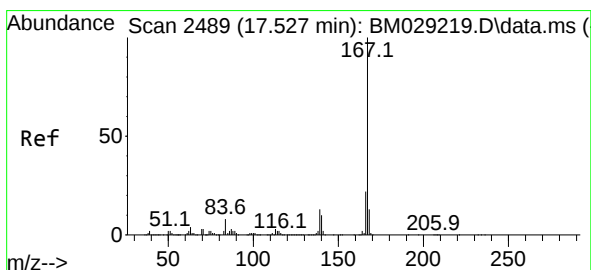
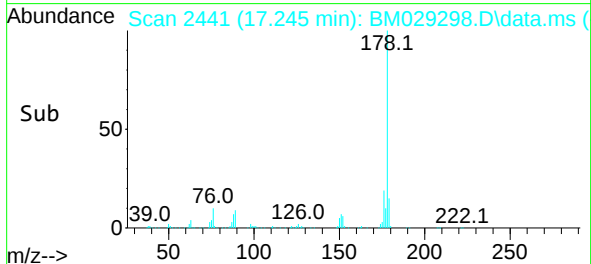
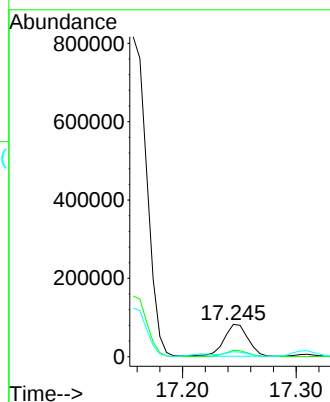
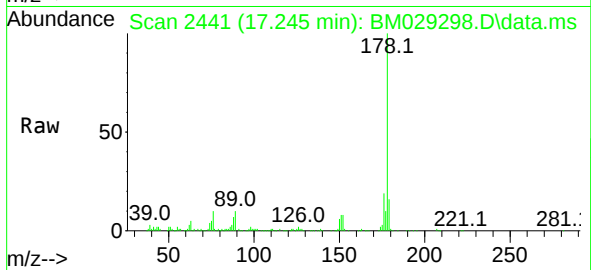
Tgt Ion:178 Resp: 120715

Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

179 15.5 12.1 18.1



#73

Carbazole

Concen: 2.81 ng

RT: 17.515 min Scan# 2487

Delta R.T. -0.000 min

Lab File: BM029298.D

Acq: 31 Mar 2021 17:42

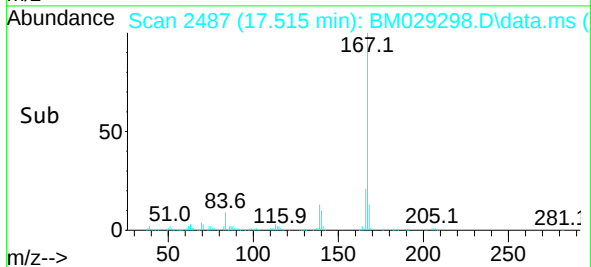
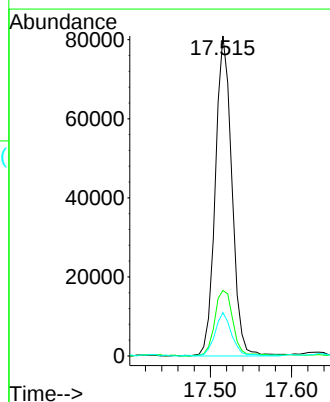
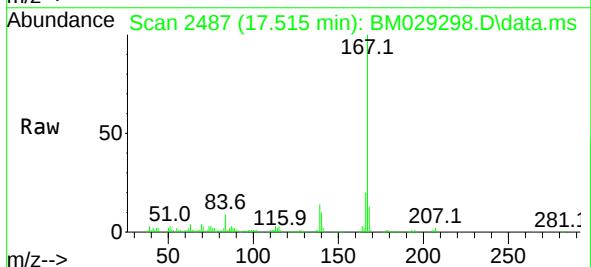
Tgt Ion:167 Resp: 114772

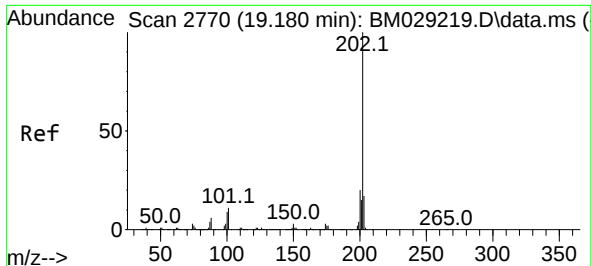
Ion Ratio Lower Upper

167 100

166 20.4 17.5 26.3

139 13.5 10.6 15.8

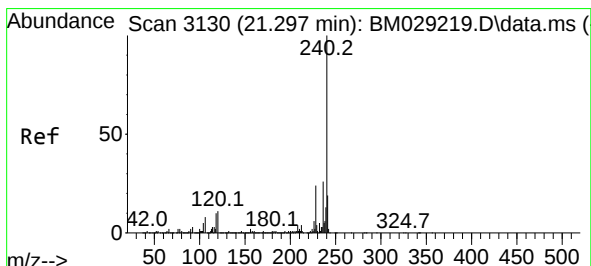
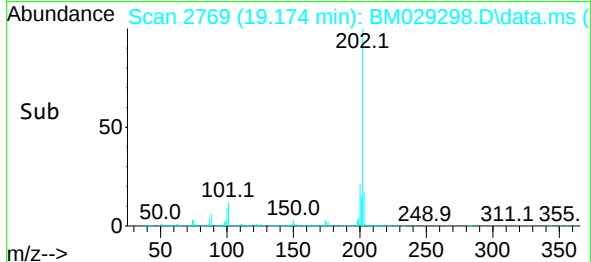
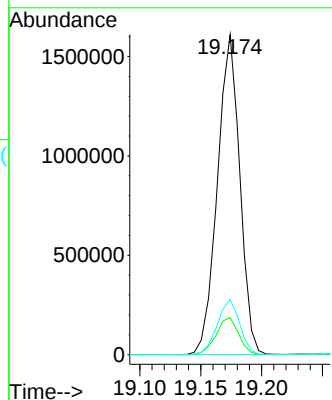
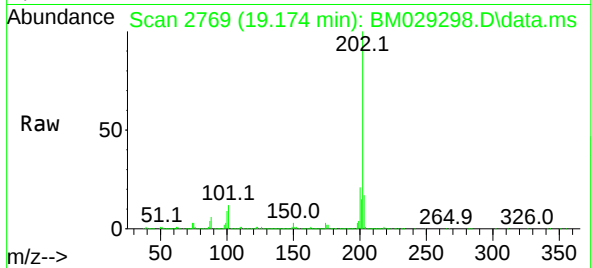




#75  
Fluoranthene  
Concen: 43.67 ng  
RT: 19.174 min Scan# 2769  
Delta R.T. 0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

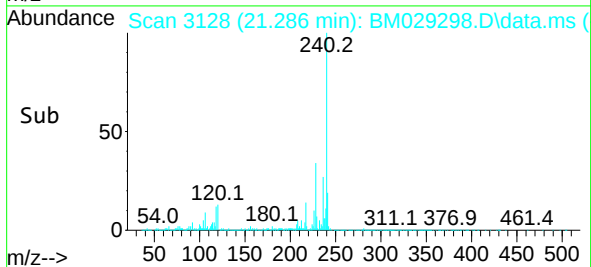
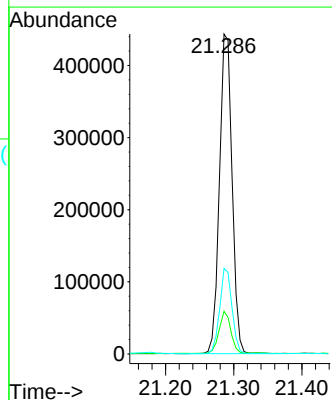
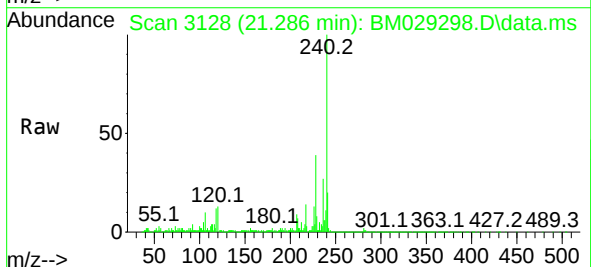
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

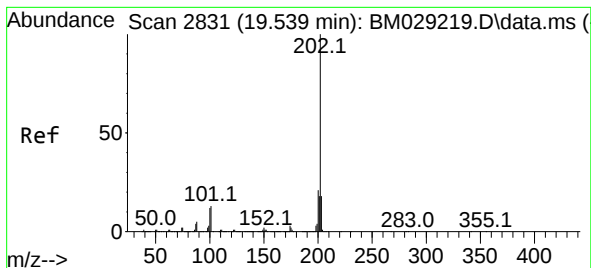
Tgt Ion:202 Resp: 2059087  
Ion Ratio Lower Upper  
202 100  
101 11.6 0.0 31.5  
203 17.3 0.0 37.7



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.286 min Scan# 3128  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Tgt Ion:240 Resp: 571900  
Ion Ratio Lower Upper  
240 100  
120 13.3 9.0 13.6  
236 26.7 20.3 30.5





#78

Pyrene

Concen: 41.00 ng

RT: 19.533 min Scan# 2830

Delta R.T. -0.000 min

Lab File: BM029298.D

Acq: 31 Mar 2021 17:42

Tgt Ion:202 Resp: 1587468

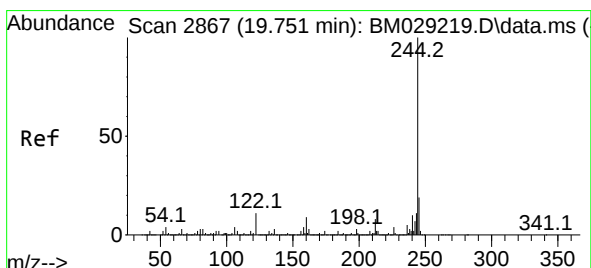
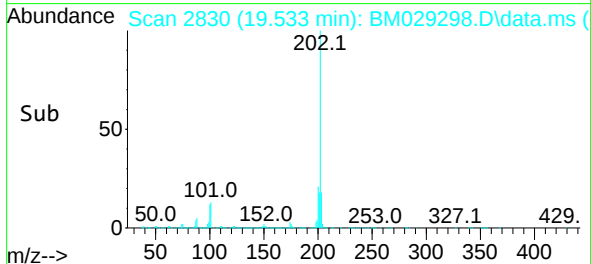
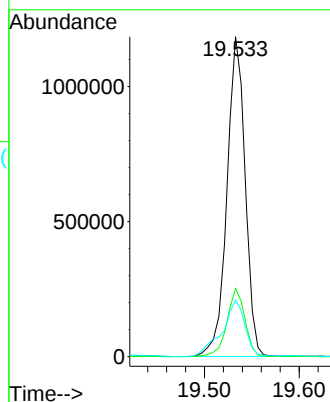
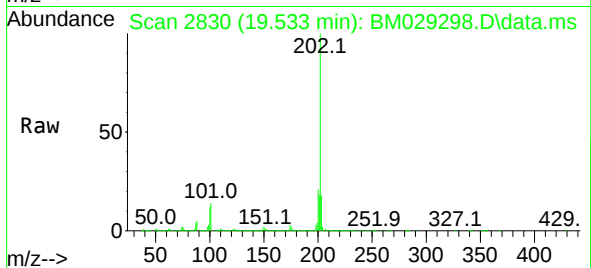
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.3  | 17.0  | 25.6  |
| 203 | 17.7  | 14.1  | 21.1  |

Instrument :

BNA\_M

ClientSampleId :

BG-1-(0.0-0.5)DL



#79

Terphenyl-d14

Concen: 11.28 ng

RT: 19.739 min Scan# 2865

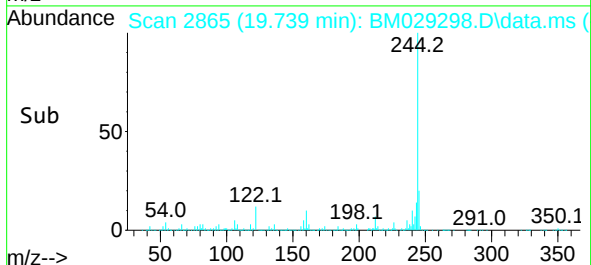
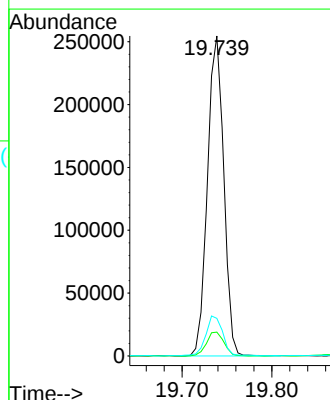
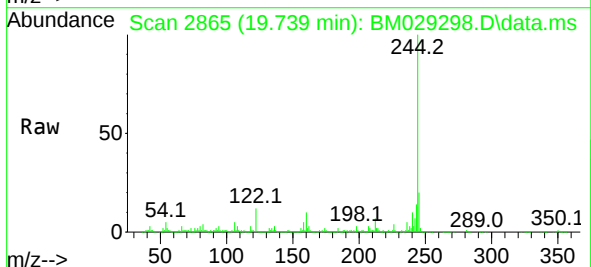
Delta R.T. -0.000 min

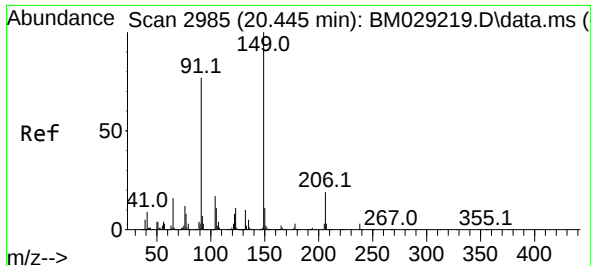
Lab File: BM029298.D

Acq: 31 Mar 2021 17:42

Tgt Ion:244 Resp: 321086

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.5   | 6.5   | 9.7   |
| 122 | 11.8  | 9.2   | 13.8  |

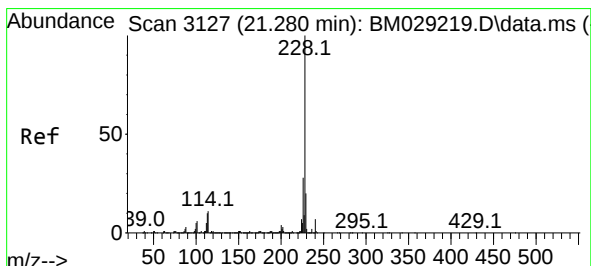
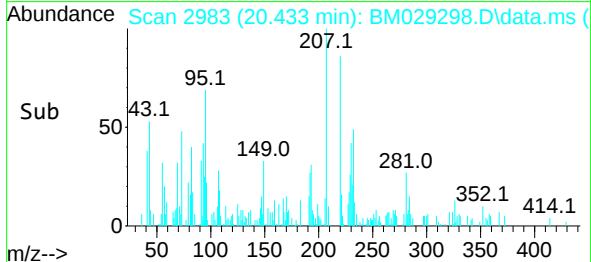
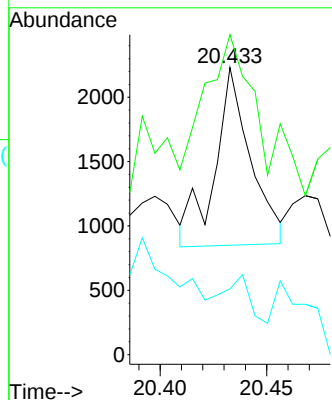
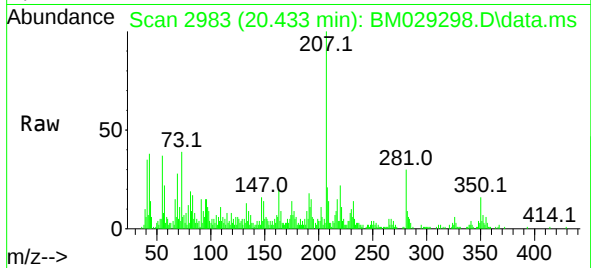




#80  
Butylbenzylphthalate  
Concen: 3.68 ng  
RT: 20.433 min Scan# 2983  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

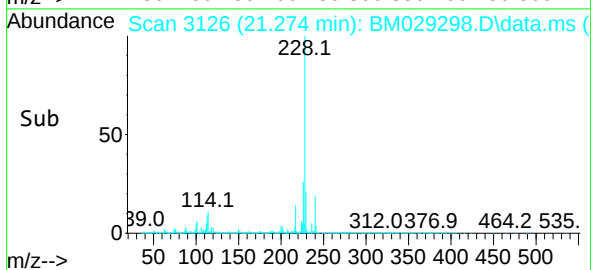
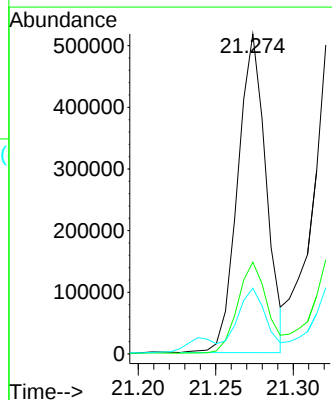
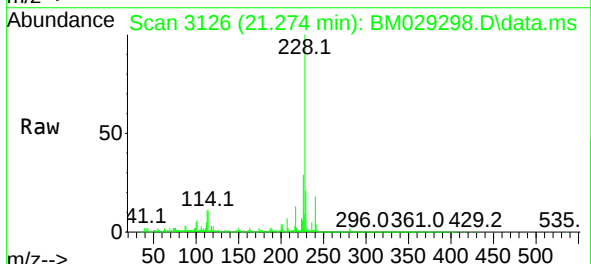
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

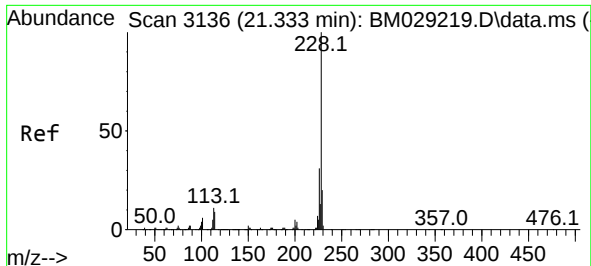
Tgt Ion:149 Resp: 1614  
Ion Ratio Lower Upper  
149 100  
91 111.4 60.5 90.7#  
206 22.9 15.7 23.5



#81  
Benzo(a)anthracene  
Concen: 17.58 ng  
RT: 21.274 min Scan# 3126  
Delta R.T. 0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Tgt Ion:228 Resp: 656078  
Ion Ratio Lower Upper  
228 100  
226 28.7 21.9 32.9  
229 20.6 15.7 23.5

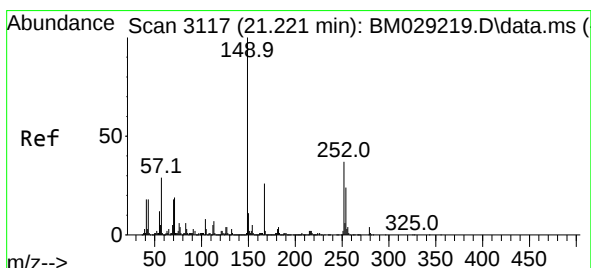
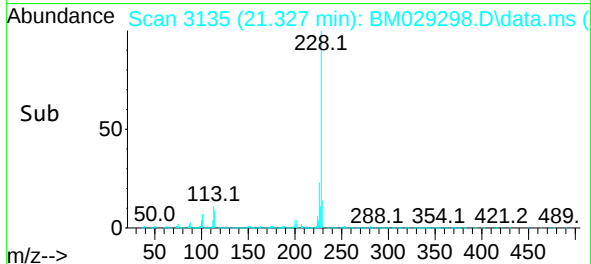
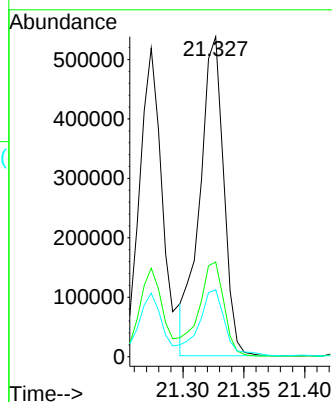
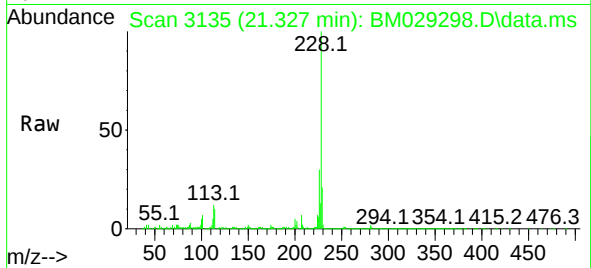




#83  
Chrysene  
Concen: 19.69 ng  
RT: 21.327 min Scan# 3135  
Delta R.T. 0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

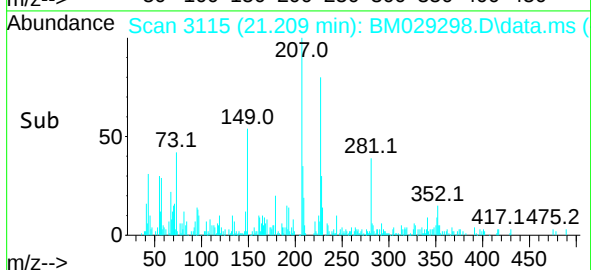
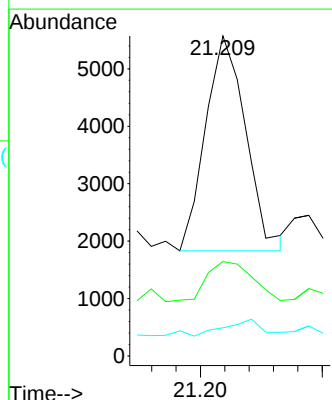
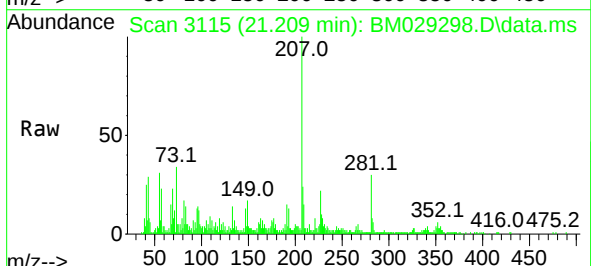
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

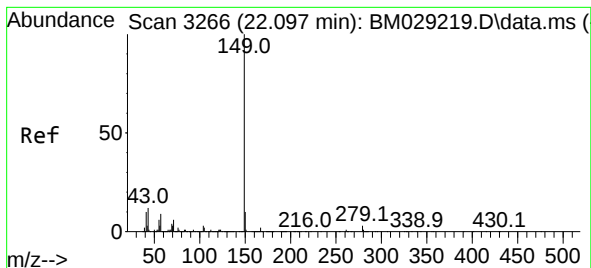
|             |                |
|-------------|----------------|
| Tgt Ion:228 | Resp: 735205   |
| Ion Ratio   | Lower Upper    |
| 228         | 100            |
| 226         | 29.6 24.7 37.1 |
| 229         | 20.9 15.8 23.6 |



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 3.75 ng  
RT: 21.209 min Scan# 3115  
Delta R.T. -0.000 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

|             |                |
|-------------|----------------|
| Tgt Ion:149 | Resp: 4284     |
| Ion Ratio   | Lower Upper    |
| 149         | 100            |
| 167         | 29.5 20.6 31.0 |
| 279         | 8.8 3.3 4.9#   |

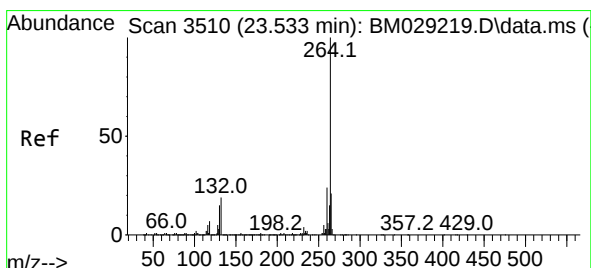
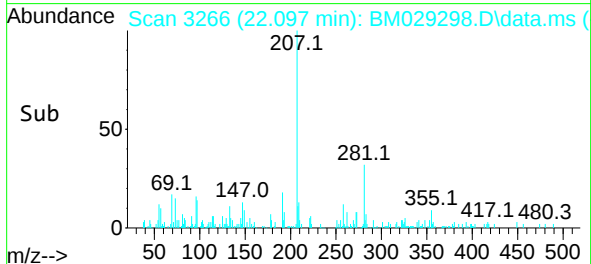
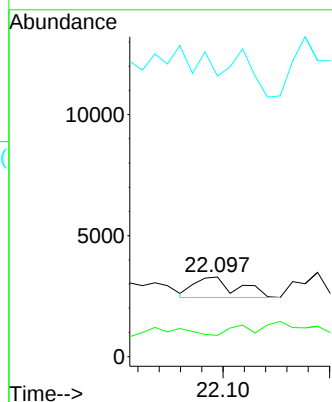
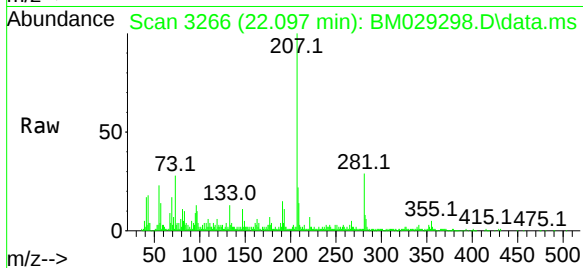




#85  
Di-n-octyl phthalate  
Concen: 4.09 ng  
RT: 22.097 min Scan# 3266  
Delta R.T. 0.011 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

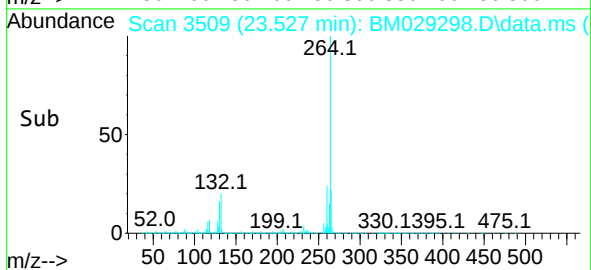
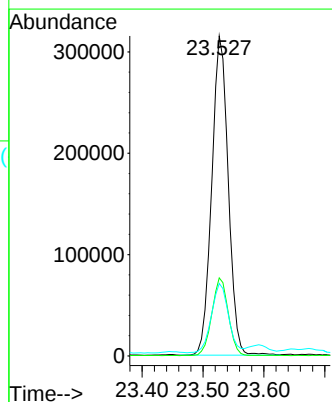
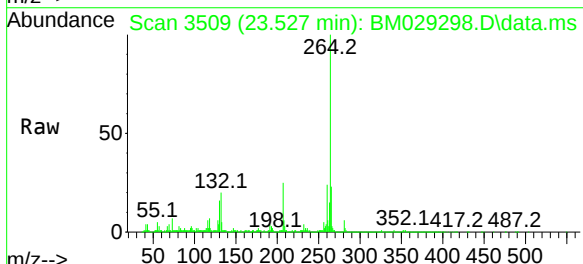
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

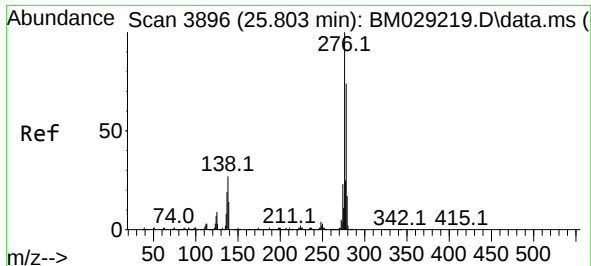
Tgt Ion:149 Resp: 1187  
Ion Ratio Lower Upper  
149 100  
167 25.1 1.3 1.9#  
43 0.0 9.8 14.6#



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.527 min Scan# 3509  
Delta R.T. 0.006 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Tgt Ion:264 Resp: 593344  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.6 29.4  
265 22.6 17.8 26.8

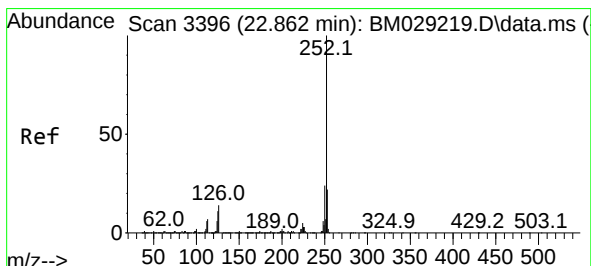
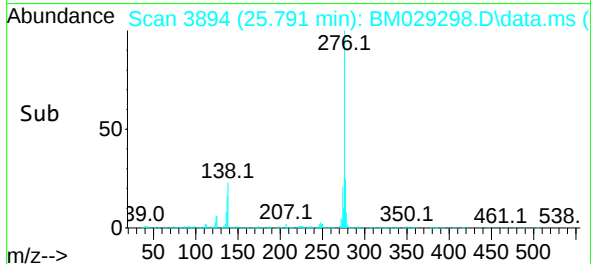
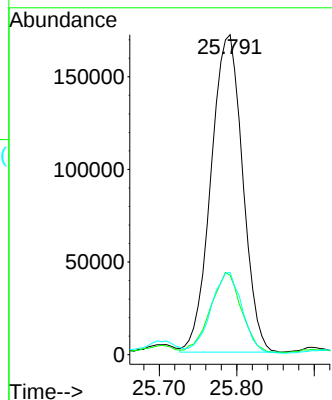
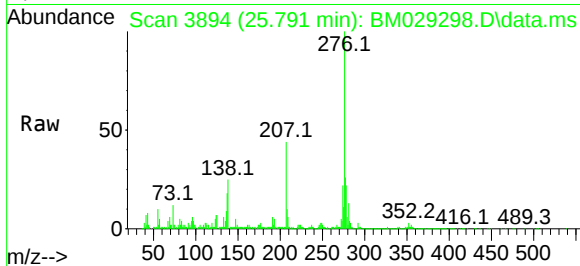




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 11.21 ng  
RT: 25.791 min Scan# 3894  
Delta R.T. 0.011 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

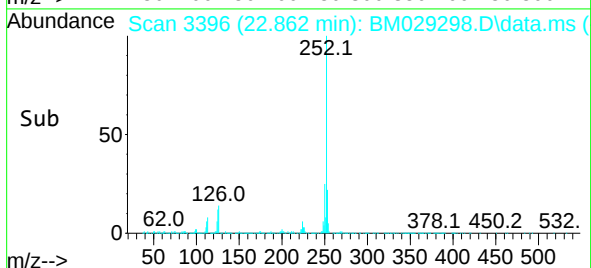
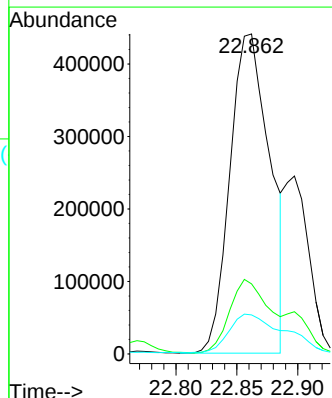
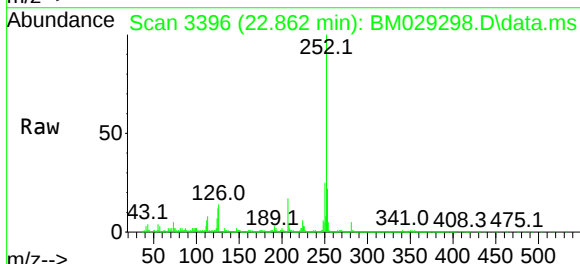
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

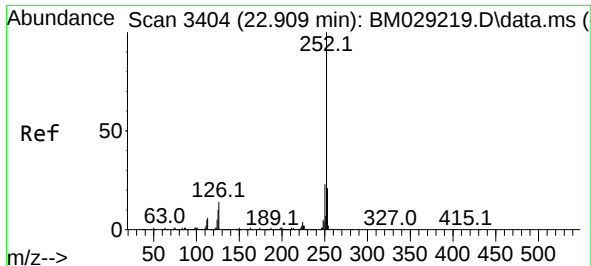
Tgt Ion:276 Resp: 486538  
Ion Ratio Lower Upper  
276 100  
138 24.7 22.6 34.0  
277 25.1 20.2 30.4



#88  
Benzo(b)fluoranthene  
Concen: 26.10 ng  
RT: 22.862 min Scan# 3396  
Delta R.T. 0.017 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

Tgt Ion:252 Resp: 1007640  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.6 26.4  
125 12.2 9.0 13.4

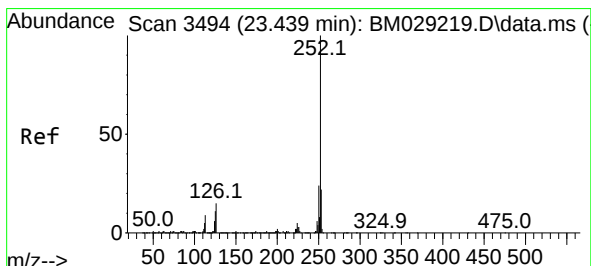
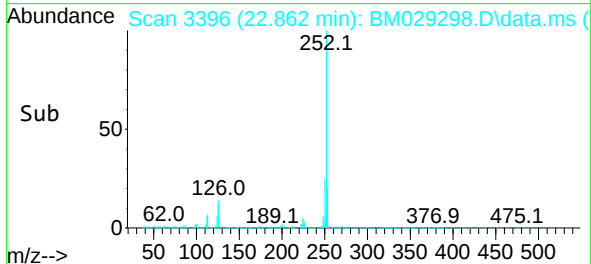
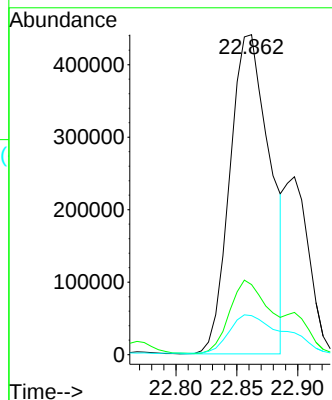
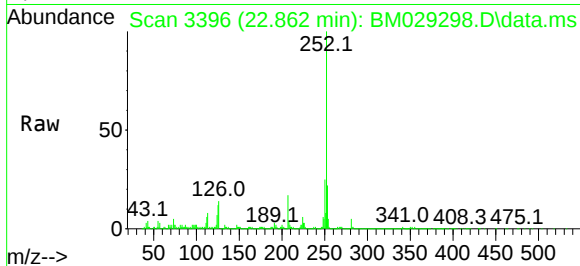




#89  
Benzo(k)fluoranthene  
Concen: 26.87 ng  
RT: 22.862 min Scan# 3396  
Delta R.T. -0.030 min  
Lab File: BM029298.D  
Acq: 31 Mar 2021 17:42

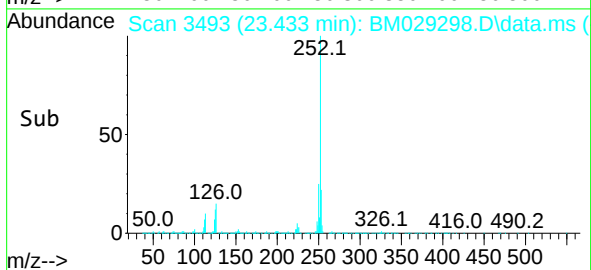
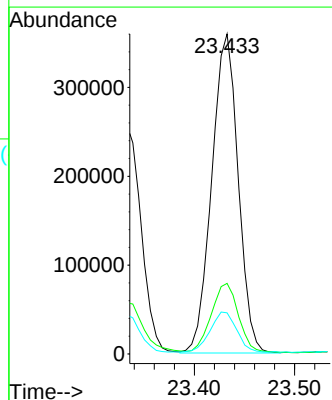
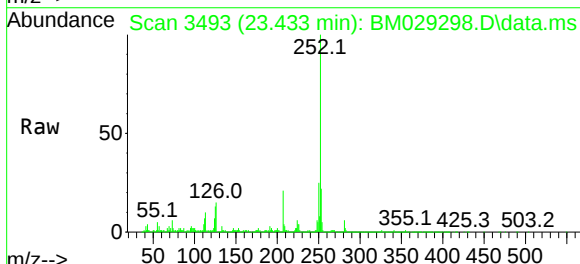
Instrument :  
BNA\_M  
ClientSampleId :  
BG-1-(0.0-0.5)DL

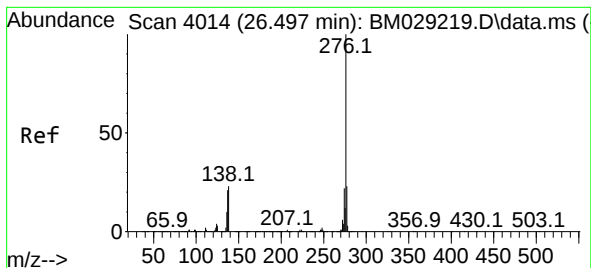
Tgt Ion:252 Resp: 1007640  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.6 26.4  
125 12.2 8.7 13.1



#90  
Benzo(a)pyrene  
Concen: 18.81 ng  
RT: 23.433 min Scan# 3493  
Delta R.T. 0.011 min  
Lab File: BM029298.D  
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Tgt Ion:252 Resp: 657641  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.0 25.4  
125 12.8 9.5 14.3





#92

Benzo(g,h,i)perylene

Concen: 12.86 ng

RT: 26.485 min Scan# 4012

Delta R.T. 0.011 min

Lab File: BM029298.D

Acq: 31 Mar 2021 17:42

Tgt Ion:276 Resp: 468053

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 26.6 19.0 28.4

