

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041621\  
 Data File : BM029529.D  
 Acq On : 16 Apr 2021 19:34  
 Operator : CG/JU  
 Sample : M2050-13 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-2

Quant Time: Apr 16 23:20:41 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040121.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 16 11:56:50 2021  
 Response via : Initial Calibration

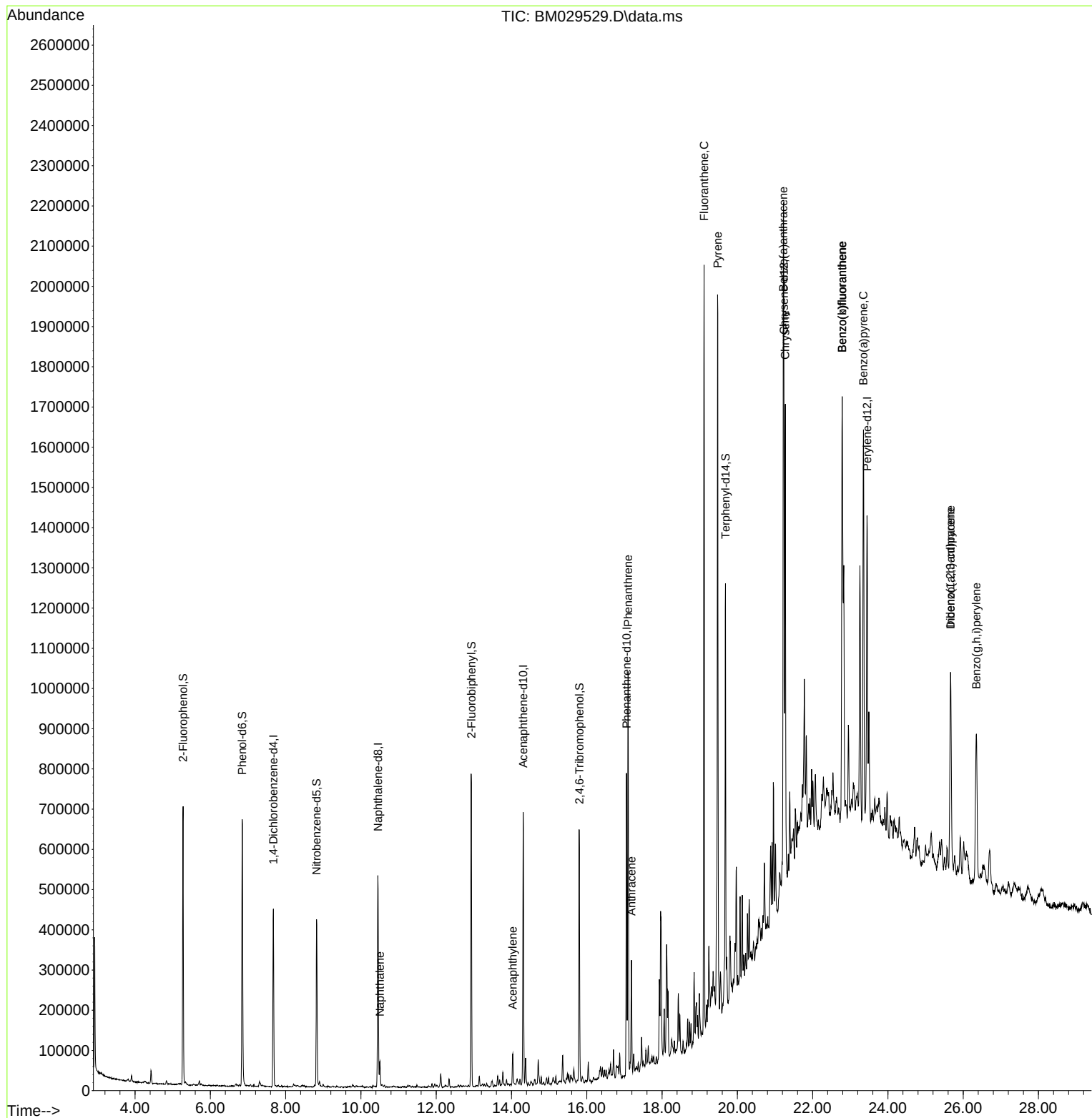
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.675  | 152  | 102857   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.451 | 136  | 380409   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.310 | 164  | 199576   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.057 | 188  | 381948   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.239 | 240  | 404435   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.445 | 264  | 443801   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.275  | 112  | 248104   | 39.83 | ng    | 0.00     |
| 7) Phenol-d6                | 6.846  | 99   | 318432   | 36.21 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.822  | 82   | 235878   | 28.43 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.804 | 330  | 75696    | 37.95 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.933 | 172  | 356666   | 24.90 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.686 | 244  | 374788   | 17.60 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 10.504 | 128  | 44012    | 2.20  | ng    | 99       |
| 49) Acenaphthylene          | 14.033 | 152  | 51474    | 2.76  | ng    | 95       |
| 71) Phenanthrene            | 17.098 | 178  | 531686   | 24.07 | ng    | 99       |
| 72) Anthracene              | 17.186 | 178  | 149200   | 6.84  | ng    | 99       |
| 75) Fluoranthene            | 19.115 | 202  | 989974   | 40.23 | ng    | 99       |
| 78) Pyrene                  | 19.480 | 202  | 978077   | 34.80 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.221 | 228  | 611835   | 22.67 | ng    | 96       |
| 83) Chrysene                | 21.274 | 228  | 539461   | 20.41 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.662 | 276  | 406608   | 12.43 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 22.786 | 252  | 980582   | 33.65 | ng    | # 97     |
| 89) Benzo(k)fluoranthene    | 22.786 | 252  | 980582   | 35.19 | ng    | # 97     |
| 90) Benzo(a)pyrene          | 23.350 | 252  | 583090   | 21.88 | ng    | 95       |
| 91) Dibenzo(a,h)anthracene  | 25.668 | 278  | 108497   | 3.86  | ng    | # 79     |
| 92) Benzo(g,h,i)perylene    | 26.350 | 276  | 409359   | 15.12 | ng    | 98       |
| -----                       |        |      |          |       |       |          |

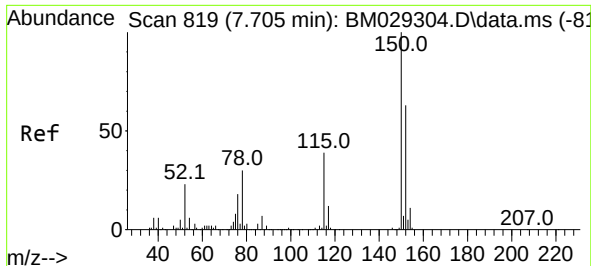
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041621\  
Data File : BM029529.D  
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Sample : M2050-13 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-2

Quant Time: Apr 16 23:20:41 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040121.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 16 11:56:50 2021  
Response via : Initial Calibration

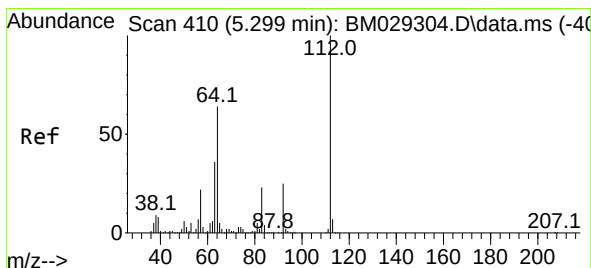
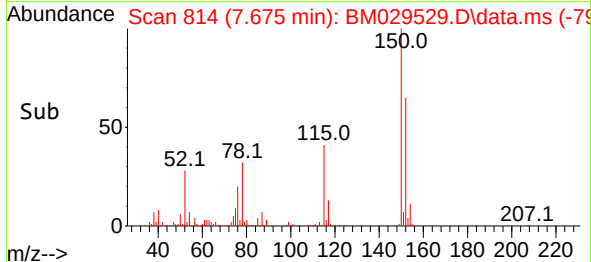
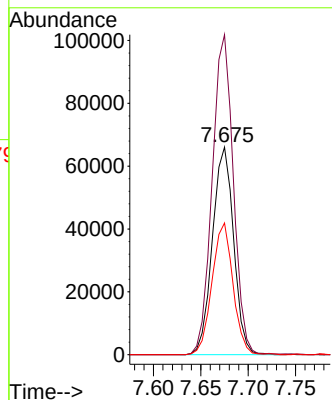
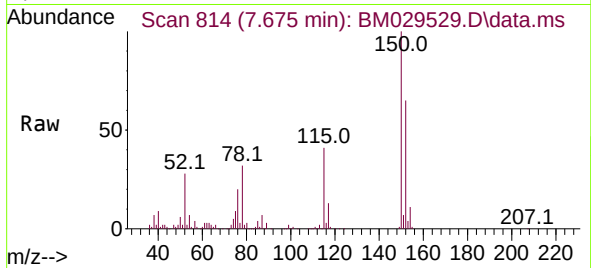




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.675 min Scan# 814  
Delta R.T. -0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

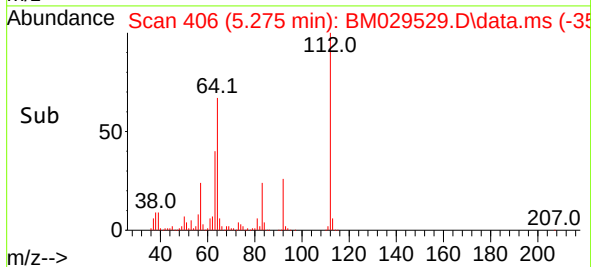
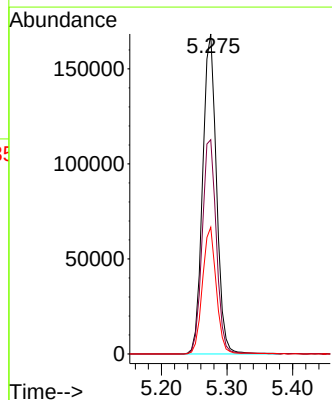
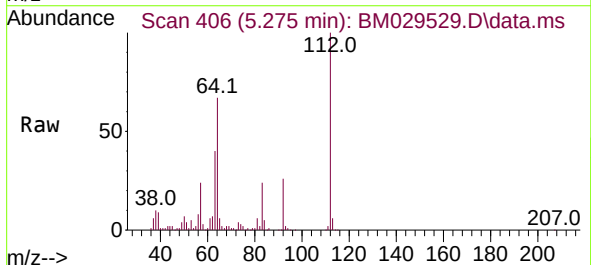
Instrument :  
BNA\_M  
ClientSampleId :  
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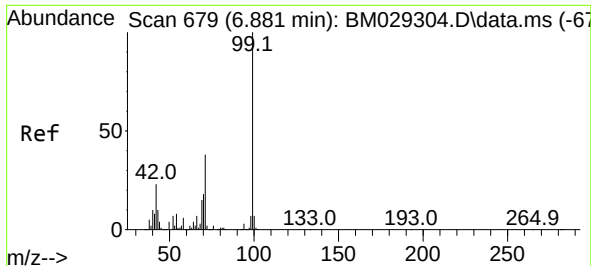
Tgt Ion:152 Resp: 102857  
Ion Ratio Lower Upper  
152 100  
150 154.2 124.3 186.5  
115 63.4 46.4 69.6



#5  
2-Fluorophenol  
Concen: 39.83 ng  
RT: 5.275 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:112 Resp: 248104  
Ion Ratio Lower Upper  
112 100  
64 67.0 51.6 77.4  
63 39.6 29.0 43.4

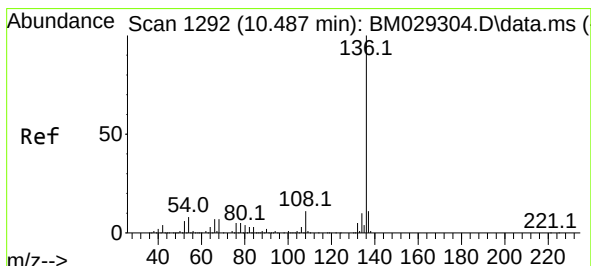
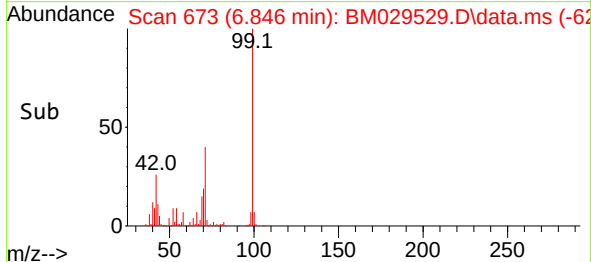
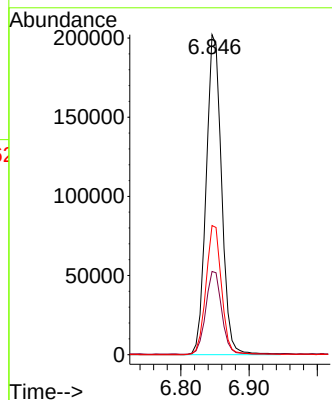
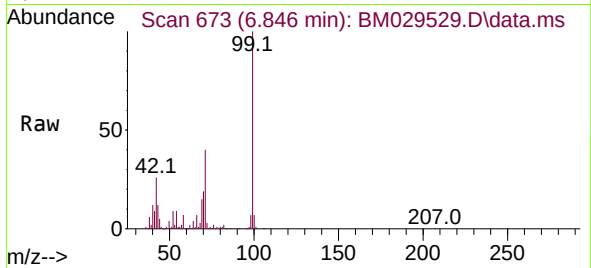




#7  
Phenol-d6  
Concen: 36.21 ng  
RT: 6.846 min Scan# 673  
Delta R.T. -0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

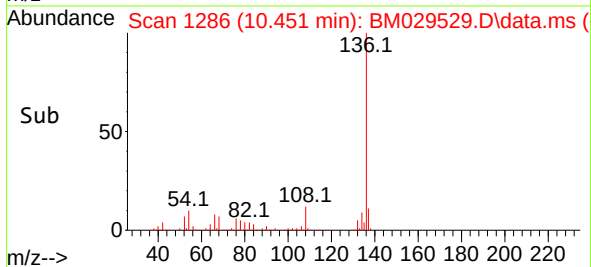
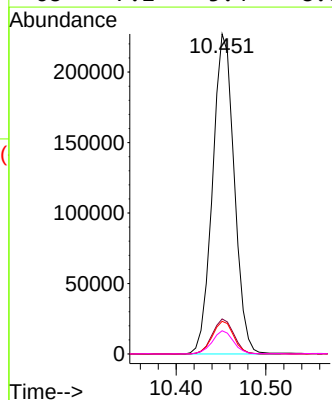
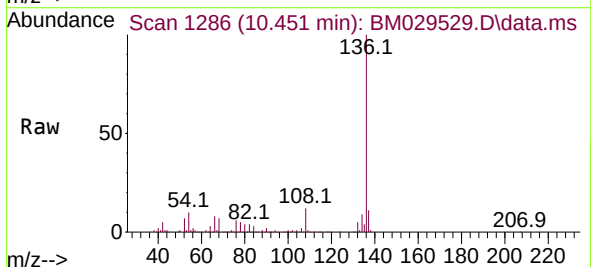
Instrument :  
BNA\_M  
ClientSampleId :  
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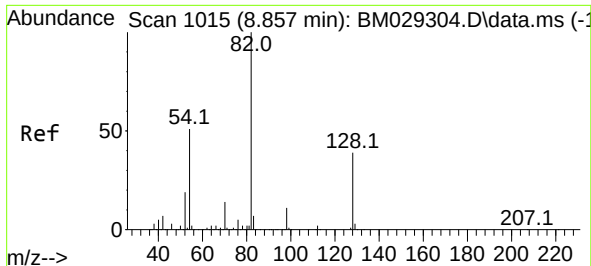
Tgt Ion: 99 Resp: 318432  
Ion Ratio Lower Upper  
99 100  
42 26.0 18.5 27.7  
71 40.3 31.8 47.6



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.451 min Scan# 1286  
Delta R.T. -0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion: 136 Resp: 380409  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.3 13.9  
54 10.2 6.9 10.3  
68 7.2 5.4 8.0

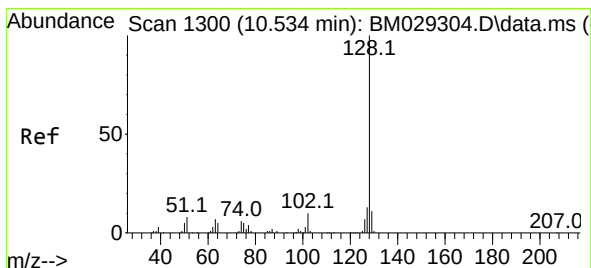
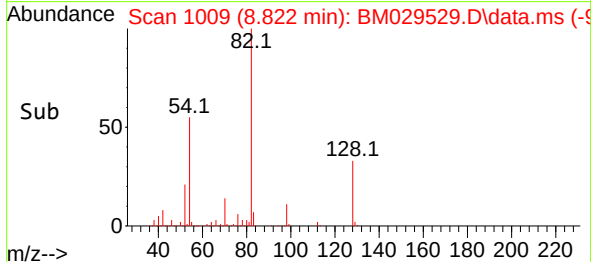
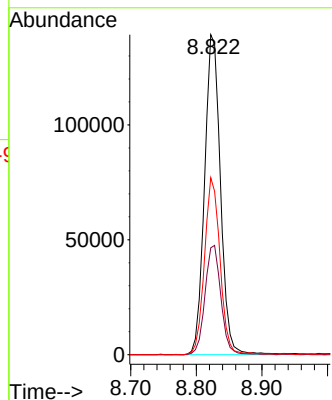
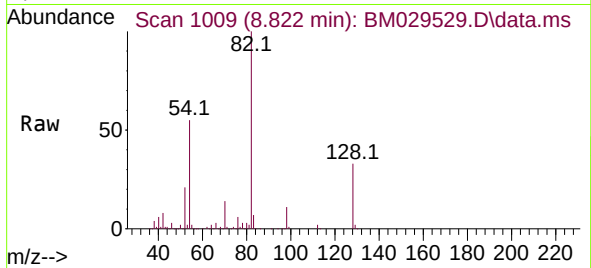




#23  
Nitrobenzene-d5  
Concen: 28.43 ng  
RT: 8.822 min Scan# 1009  
Delta R.T. -0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

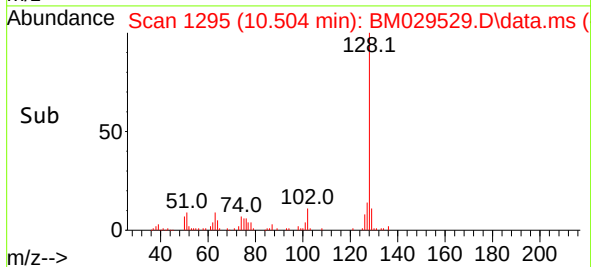
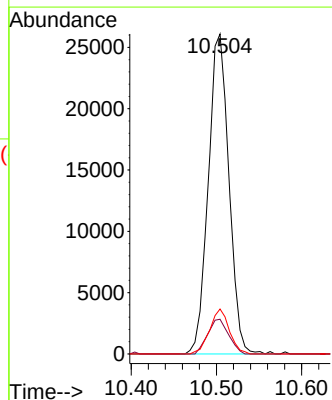
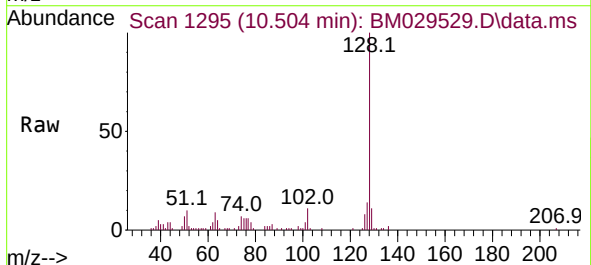
Instrument :  
BNA\_M  
ClientSampleId :  
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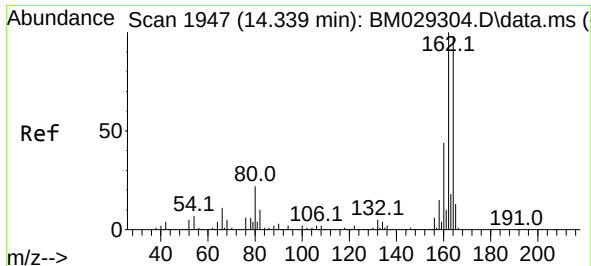
Tgt Ion: 82 Resp: 235878  
Ion Ratio Lower Upper  
82 100  
128 33.4 28.6 42.8  
54 55.3 40.7 61.1



#31  
Naphthalene  
Concen: 2.20 ng  
RT: 10.504 min Scan# 1295  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:128 Resp: 44012  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.0 13.6  
127 14.1 10.7 16.1

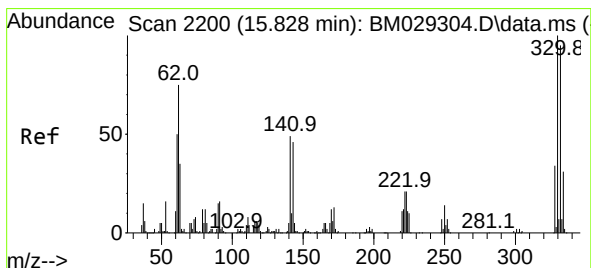
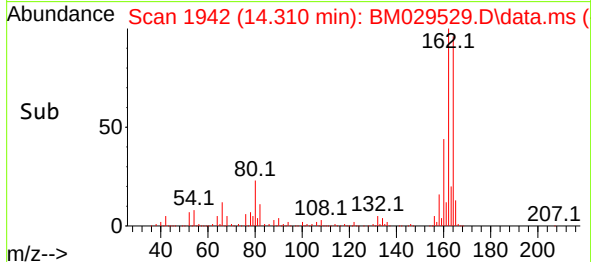
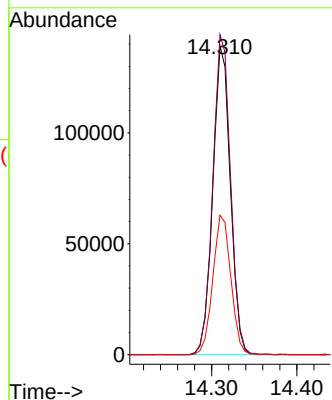
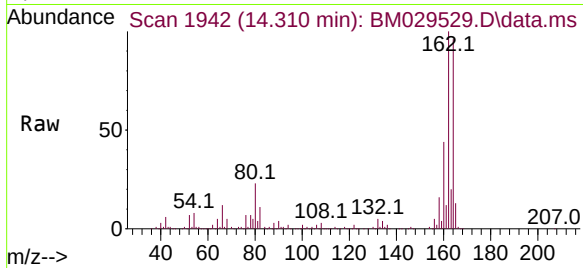




#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.310 min Scan# 1942  
Delta R.T. -0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

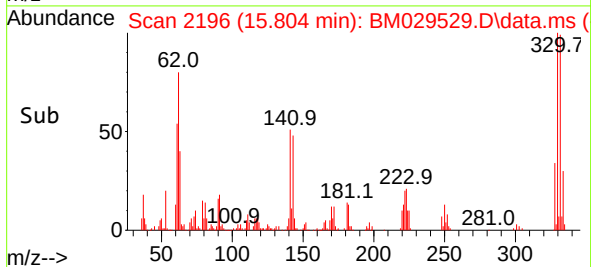
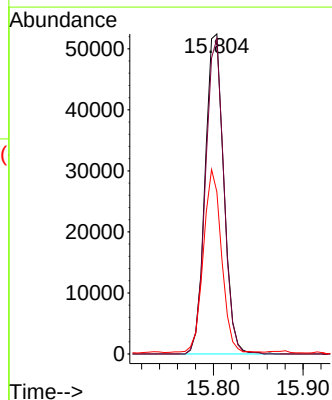
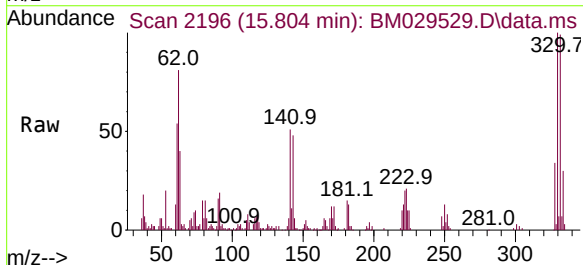
Instrument :  
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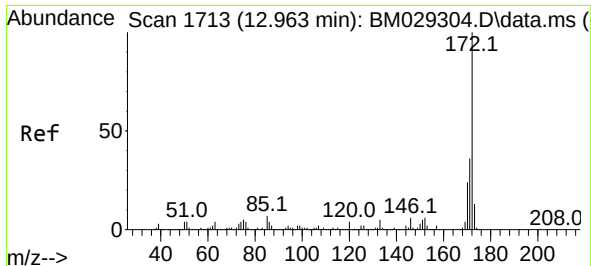
Tgt Ion:164 Resp: 199576  
Ion Ratio Lower Upper  
164 100  
162 103.6 84.4 126.6  
160 45.1 36.6 54.8



#42  
2,4,6-Tribromophenol  
Concen: 37.95 ng  
RT: 15.804 min Scan# 2196  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:330 Resp: 75696  
Ion Ratio Lower Upper  
330 100  
332 96.7 77.1 115.7  
141 55.3 39.2 58.8

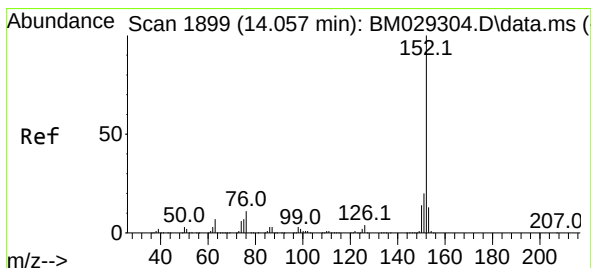
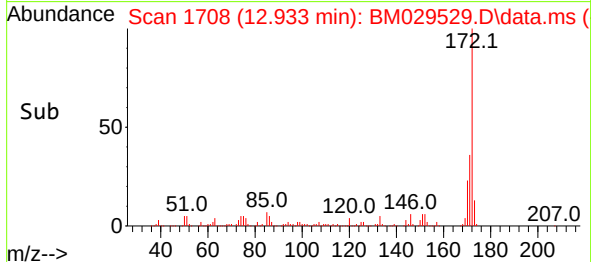
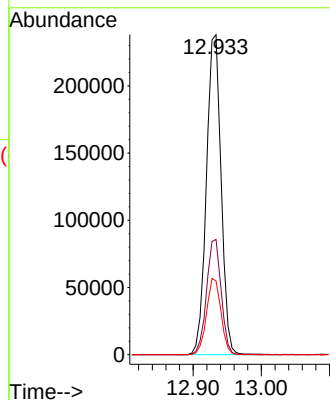
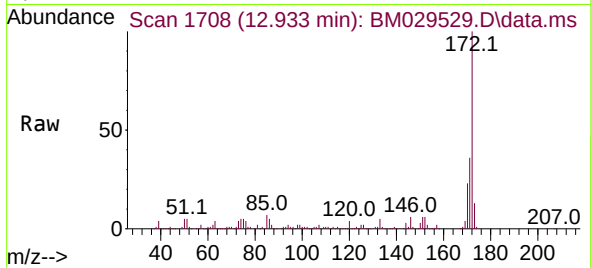




#45  
2-Fluorobiphenyl  
Concen: 24.90 ng  
RT: 12.933 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

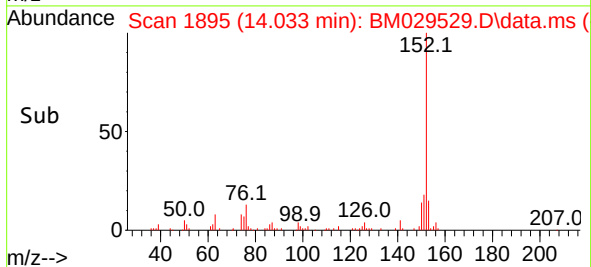
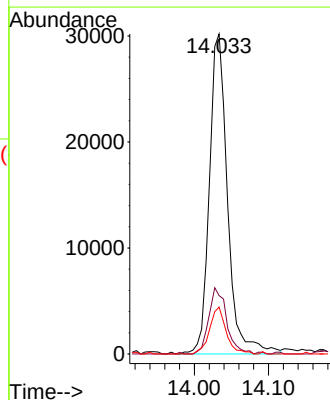
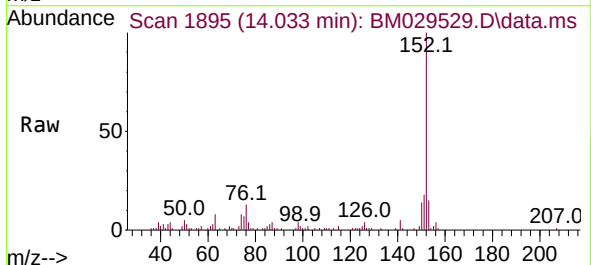
Instrument :  
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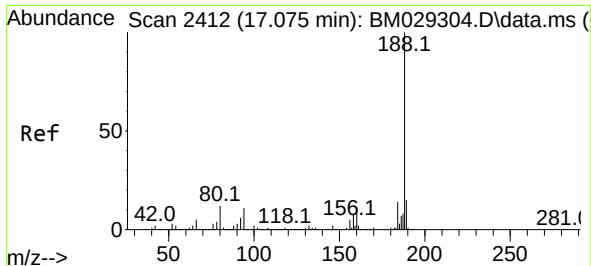
Tgt Ion:172 Resp: 356666  
Ion Ratio Lower Upper  
172 100  
171 36.0 28.7 43.1  
170 23.1 18.8 28.2



#49  
Acenaphthylene  
Concen: 2.76 ng  
RT: 14.033 min Scan# 1895  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:152 Resp: 51474  
Ion Ratio Lower Upper  
152 100  
151 18.2 16.2 24.4  
153 14.6 10.2 15.2

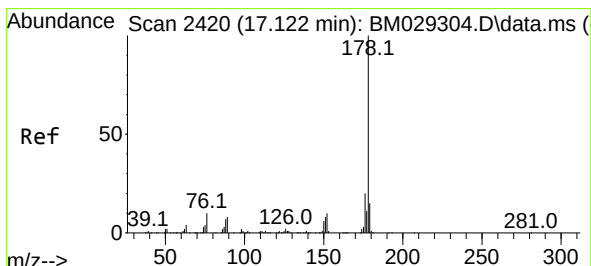
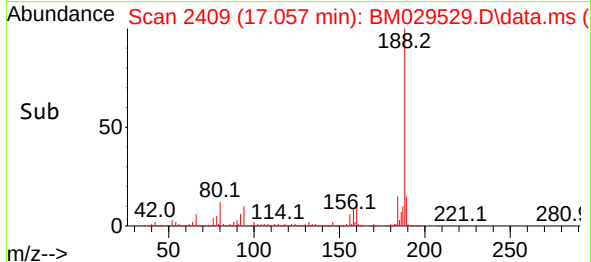
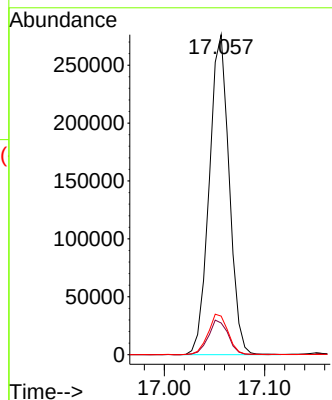
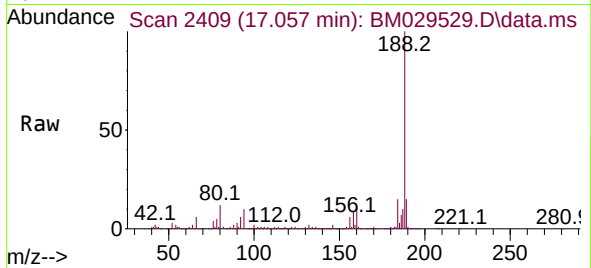




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.057 min Scan# 2409  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

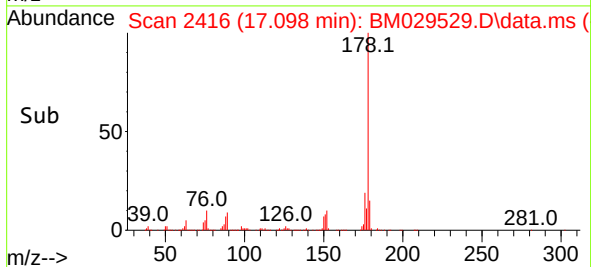
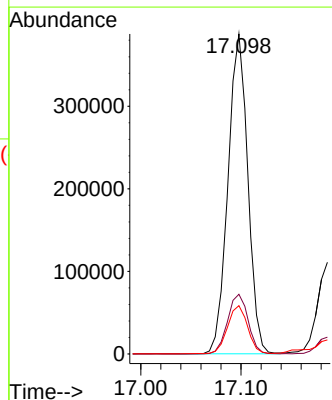
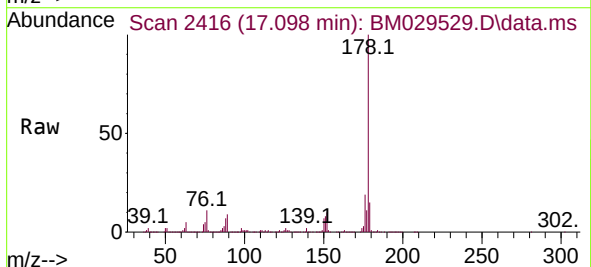
Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:188 Resp: 381948  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.1 12.1  
80 12.1 9.2 13.8

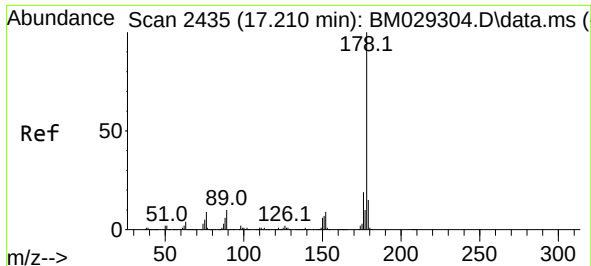


#71  
Phenanthrene  
Concen: 24.07 ng  
RT: 17.098 min Scan# 2416  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:178 Resp: 531686  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.7 23.5  
179 15.1 11.9 17.9



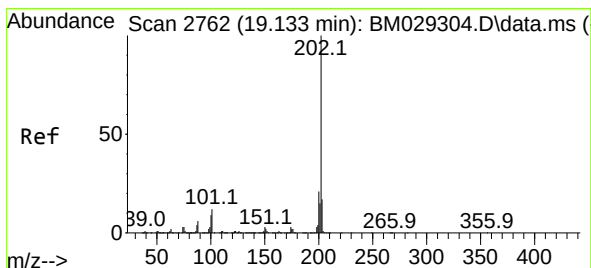
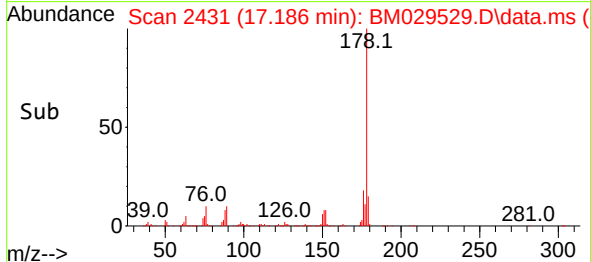
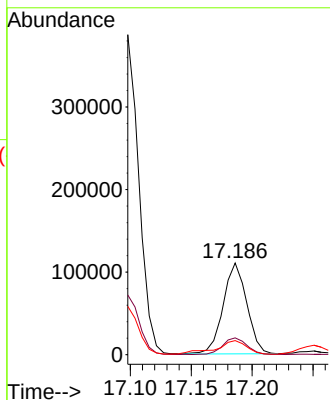
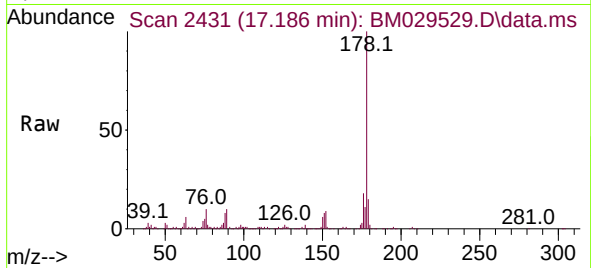




#72  
 Anthracene  
 Concen: 6.84 ng  
 RT: 17.186 min Scan# 2431  
 Delta R.T. -0.006 min  
 Lab File: BM029529.D  
 Acq: 16 Apr 2021 19:34

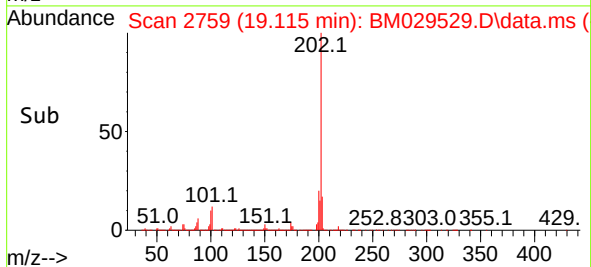
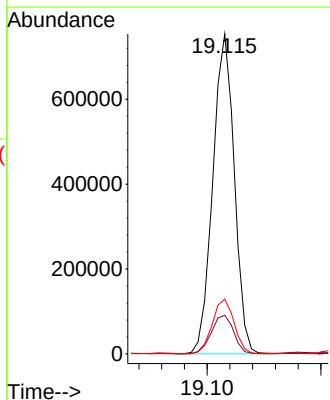
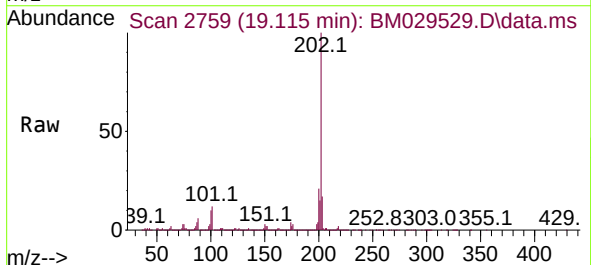
Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-2

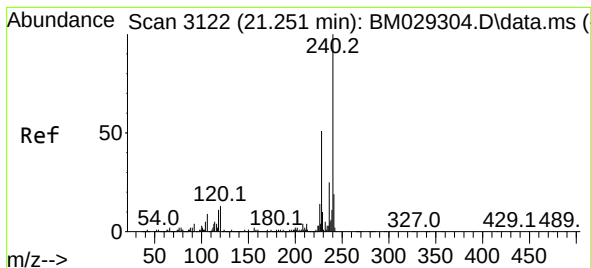
Tgt Ion:178 Resp: 149200  
 Ion Ratio Lower Upper  
 178 100  
 176 18.3 14.9 22.3  
 179 15.4 12.1 18.1



#75  
 Fluoranthene  
 Concen: 40.23 ng  
 RT: 19.115 min Scan# 2759  
 Delta R.T. 0.000 min  
 Lab File: BM029529.D  
 Acq: 16 Apr 2021 19:34

Tgt Ion:202 Resp: 989974  
 Ion Ratio Lower Upper  
 202 100  
 101 12.1 0.0 31.5  
 203 17.1 0.0 37.7





#76

Chrysene-d12

Concen: 20.00 ng

RT: 21.239 min Scan# 3120

Delta R.T. 0.006 min

Lab File: BM029529.D

Acq: 16 Apr 2021 19:34

Tgt Ion:240 Resp: 404435

Ion Ratio Lower Upper

240 100

120 12.5 9.0 13.6

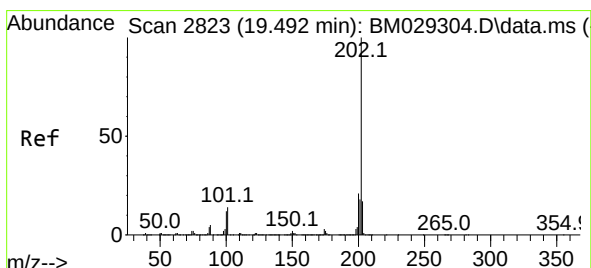
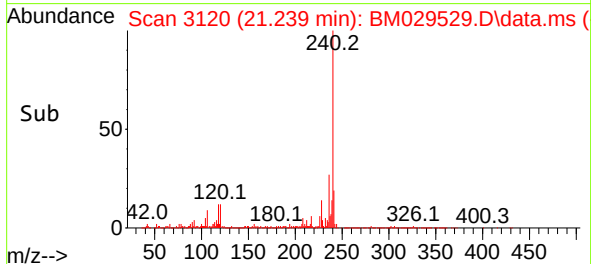
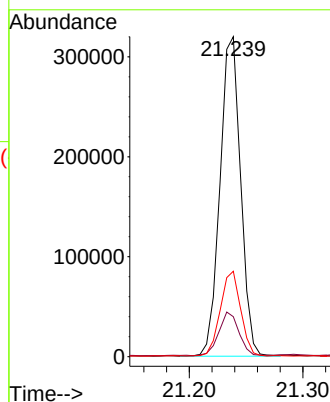
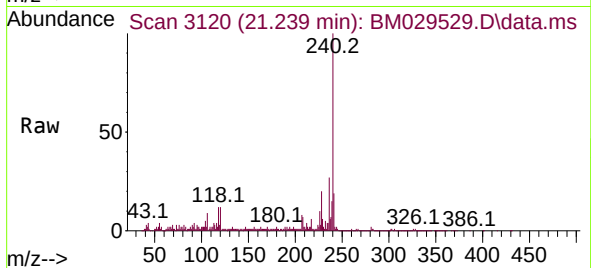
236 26.7 20.3 30.5

Instrument :

BNA\_M

ClientSampled :

TP-2



#78

Pyrene

Concen: 34.80 ng

RT: 19.480 min Scan# 2821

Delta R.T. 0.006 min

Lab File: BM029529.D

Acq: 16 Apr 2021 19:34

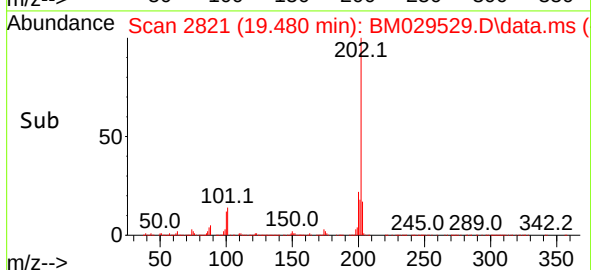
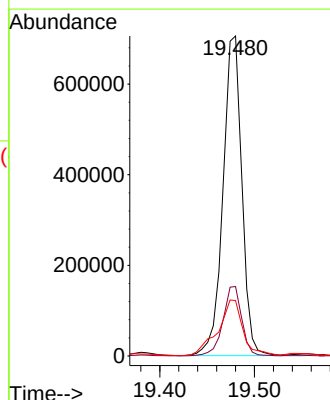
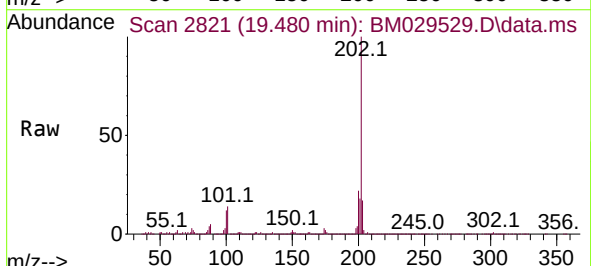
Tgt Ion:202 Resp: 978077

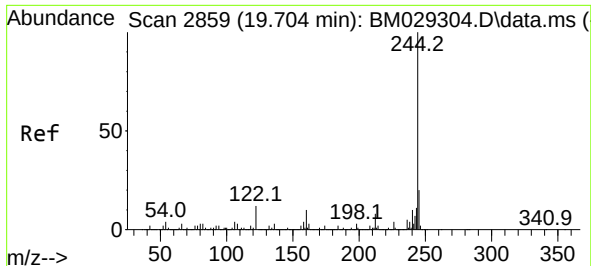
Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.6

203 17.3 14.1 21.1

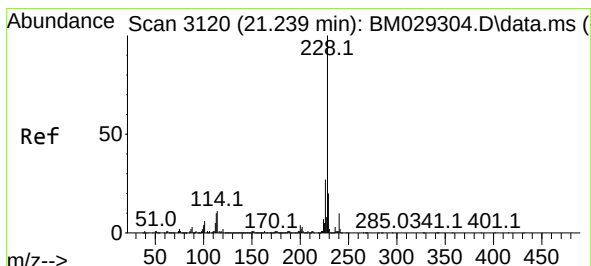
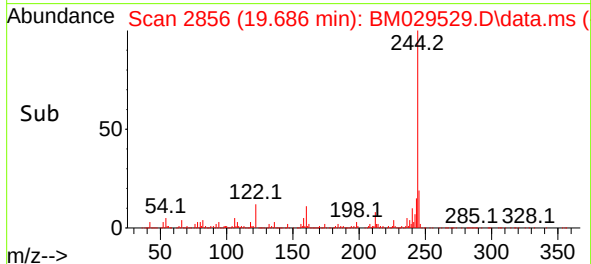
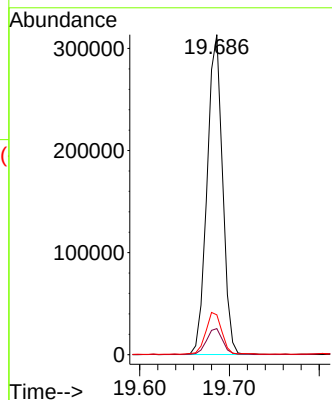
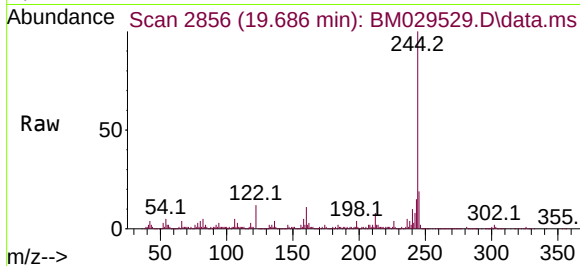




#79  
 Terphenyl-d14  
 Concen: 17.60 ng  
 RT: 19.686 min Scan# 2856  
 Delta R.T. 0.000 min  
 Lab File: BM029529.D  
 Acq: 16 Apr 2021 19:34

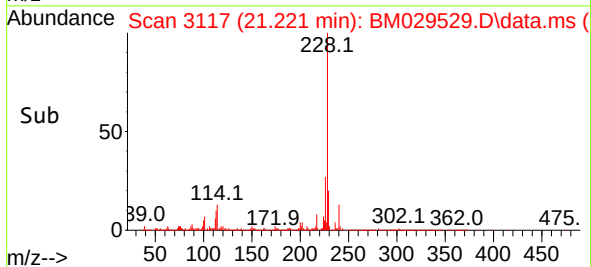
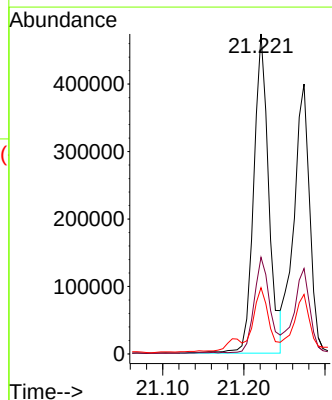
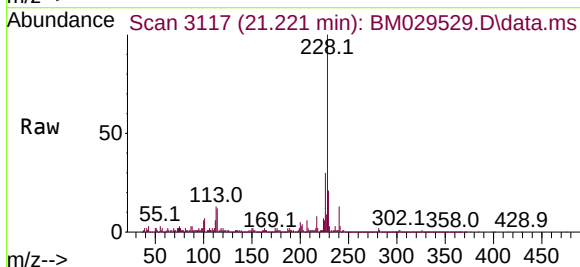
Instrument :  
 BNA\_M  
 ClientSampled :  
 TP-2

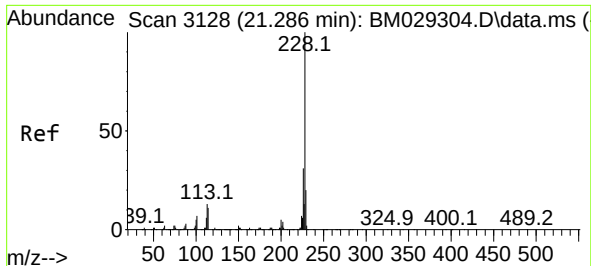
Tgt Ion:244 Resp: 374788  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 6.5 9.7  
 122 12.4 9.2 13.8



#81  
 Benzo(a)anthracene  
 Concen: 22.67 ng  
 RT: 21.221 min Scan# 3117  
 Delta R.T. 0.000 min  
 Lab File: BM029529.D  
 Acq: 16 Apr 2021 19:34

Tgt Ion:228 Resp: 611835  
 Ion Ratio Lower Upper  
 228 100  
 226 30.2 21.9 32.9  
 229 20.7 15.7 23.5

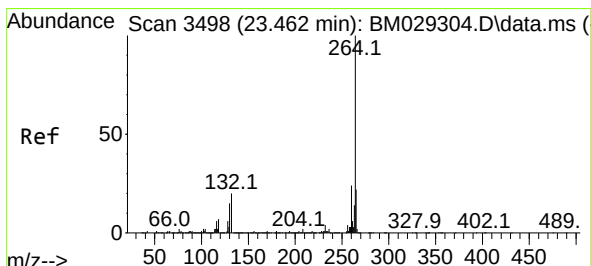
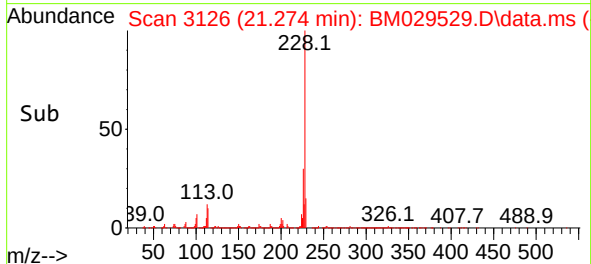
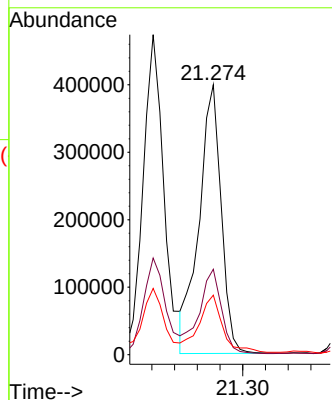
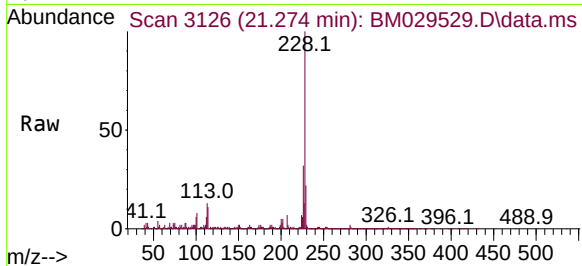




#83  
Chrysene  
Concen: 20.41 ng  
RT: 21.274 min Scan# 3126  
Delta R.T. 0.000 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

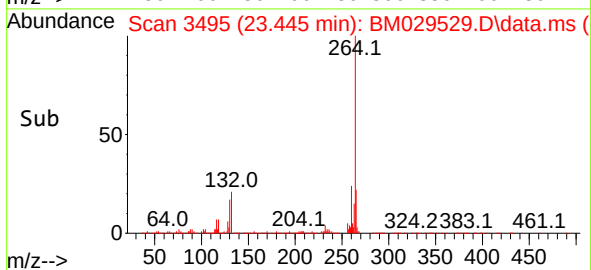
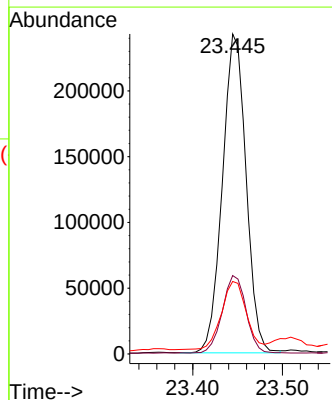
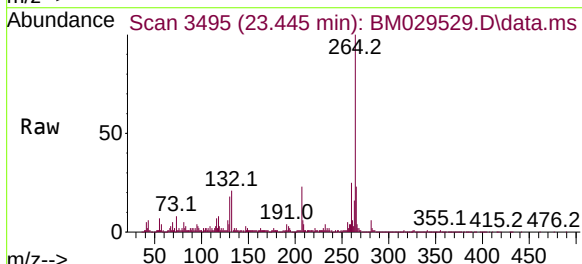
Instrument :  
BNA\_M  
ClientSampled :  
TP-2

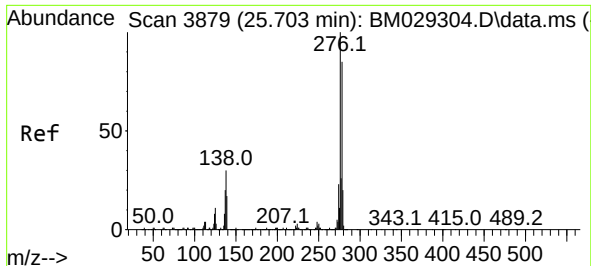
Tgt Ion:228 Resp: 539461  
Ion Ratio Lower Upper  
228 100  
226 31.6 24.7 37.1  
229 22.0 15.8 23.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.445 min Scan# 3495  
Delta R.T. 0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:264 Resp: 443801  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.6 29.4  
265 22.7 17.8 26.8

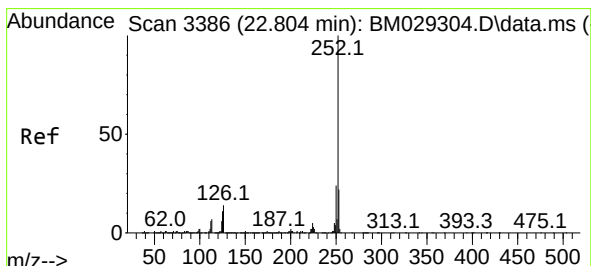
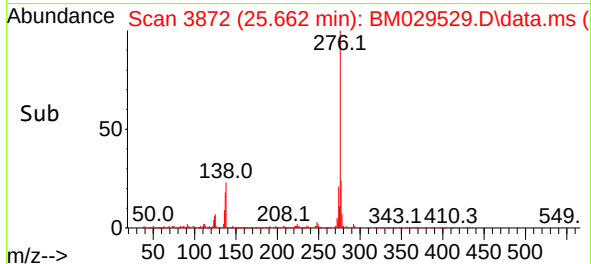
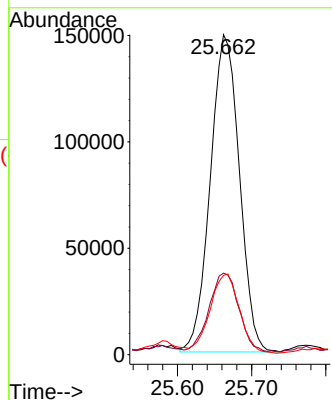
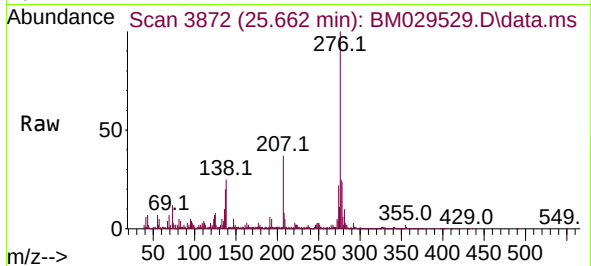




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 12.43 ng  
RT: 25.662 min Scan# 3872  
Delta R.T. -0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

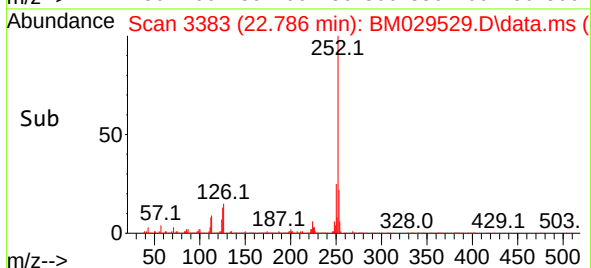
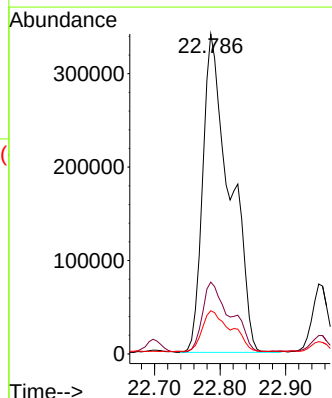
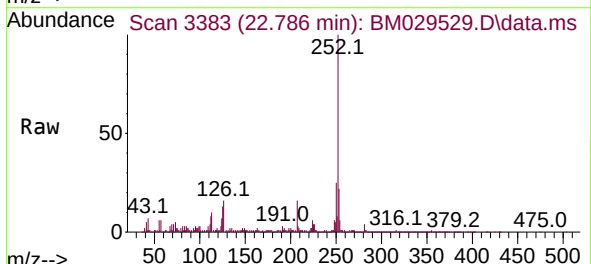
Instrument :  
BNA\_M  
ClientSampleId :  
TP-2

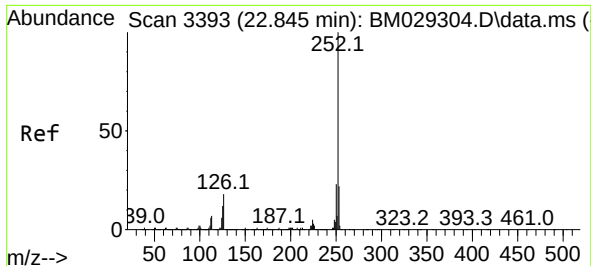
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 406608 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 25.2  | 22.6  | 34.0   |
| 277       | 25.2  | 20.2  | 30.4   |



#88  
Benzo(b)fluoranthene  
Concen: 33.65 ng  
RT: 22.786 min Scan# 3383  
Delta R.T. 0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 980582 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.5  | 17.6  | 26.4   |
| 125       | 13.5  | 9.0   | 13.4#  |

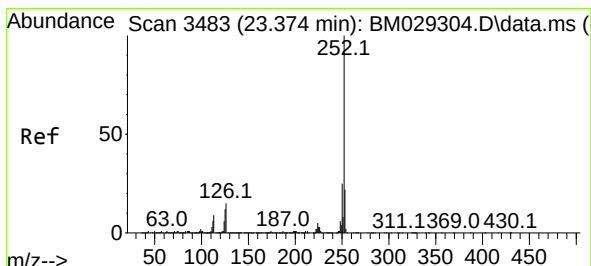
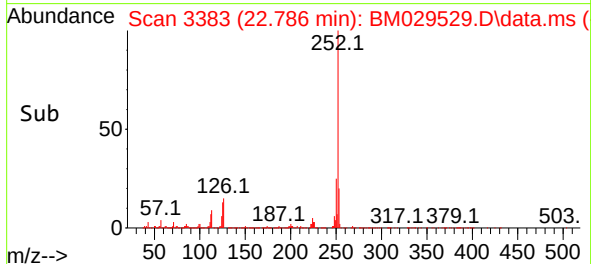
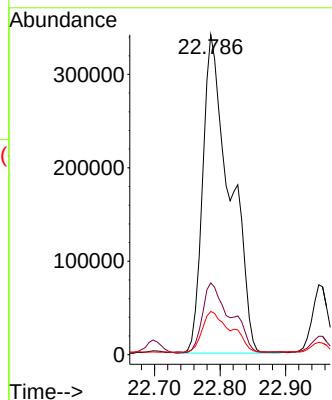
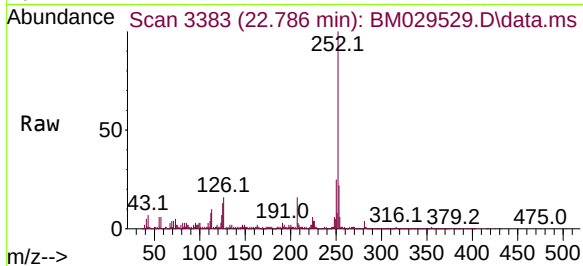




#89  
Benzo(k)fluoranthene  
Concen: 35.19 ng  
RT: 22.786 min Scan# 3383  
Delta R.T. -0.041 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

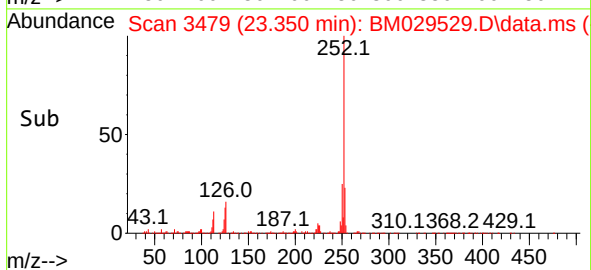
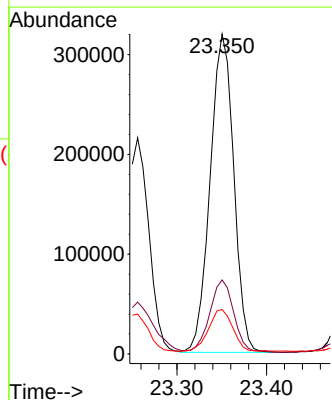
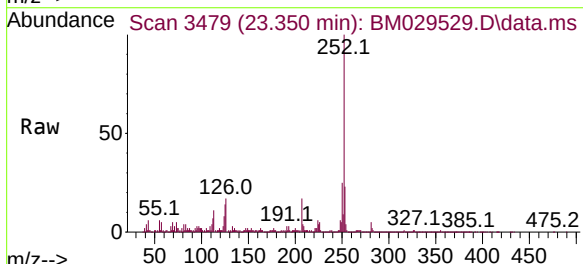
Instrument :  
BNA\_M  
ClientSampleId :  
TP-2

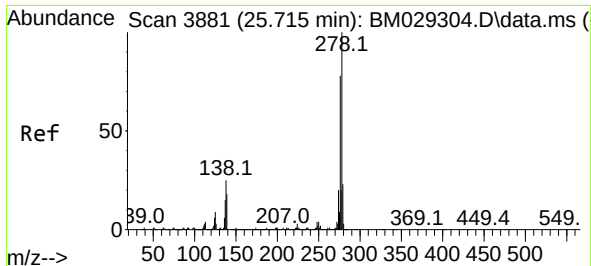
Tgt Ion:252 Resp: 980582  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.6 26.4  
125 13.5 8.7 13.1#



#90  
Benzo(a)pyrene  
Concen: 21.88 ng  
RT: 23.350 min Scan# 3479  
Delta R.T. 0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:252 Resp: 583090  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.0 25.4  
125 13.9 9.5 14.3

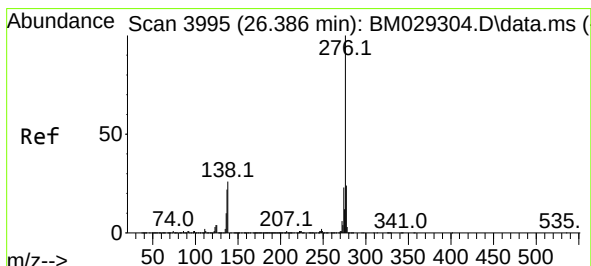
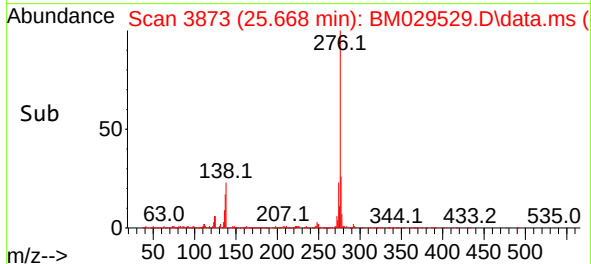
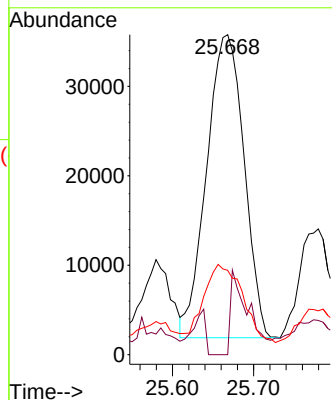
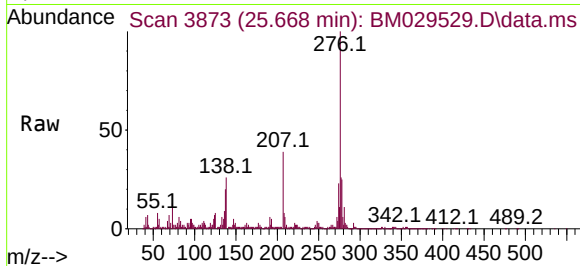




#91  
Dibenzo(a,h)anthracene  
Concen: 3.86 ng  
RT: 25.668 min Scan# 3873  
Delta R.T. -0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Instrument :  
BNA\_M  
ClientSampleId :  
TP-2

Tgt Ion:278 Resp: 108497  
Ion Ratio Lower Upper  
278 100  
139 0.0 14.8 22.2#  
279 26.4 19.3 28.9



#92  
Benzo(g,h,i)perylene  
Concen: 15.12 ng  
RT: 26.350 min Scan# 3989  
Delta R.T. 0.006 min  
Lab File: BM029529.D  
Acq: 16 Apr 2021 19:34

Tgt Ion:276 Resp: 409359  
Ion Ratio Lower Upper  
276 100  
277 24.4 18.7 28.1  
138 24.9 19.0 28.4

