

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP051121\  
 Data File : BP005498.D  
 Acq On : 11 May 2021 20:14  
 Operator : CG/JU  
 Sample : M2335-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 OK-02-050721

Quant Time: May 12 05:28:30 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP050521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 11 11:20:59 2021  
 Response via : Initial Calibration

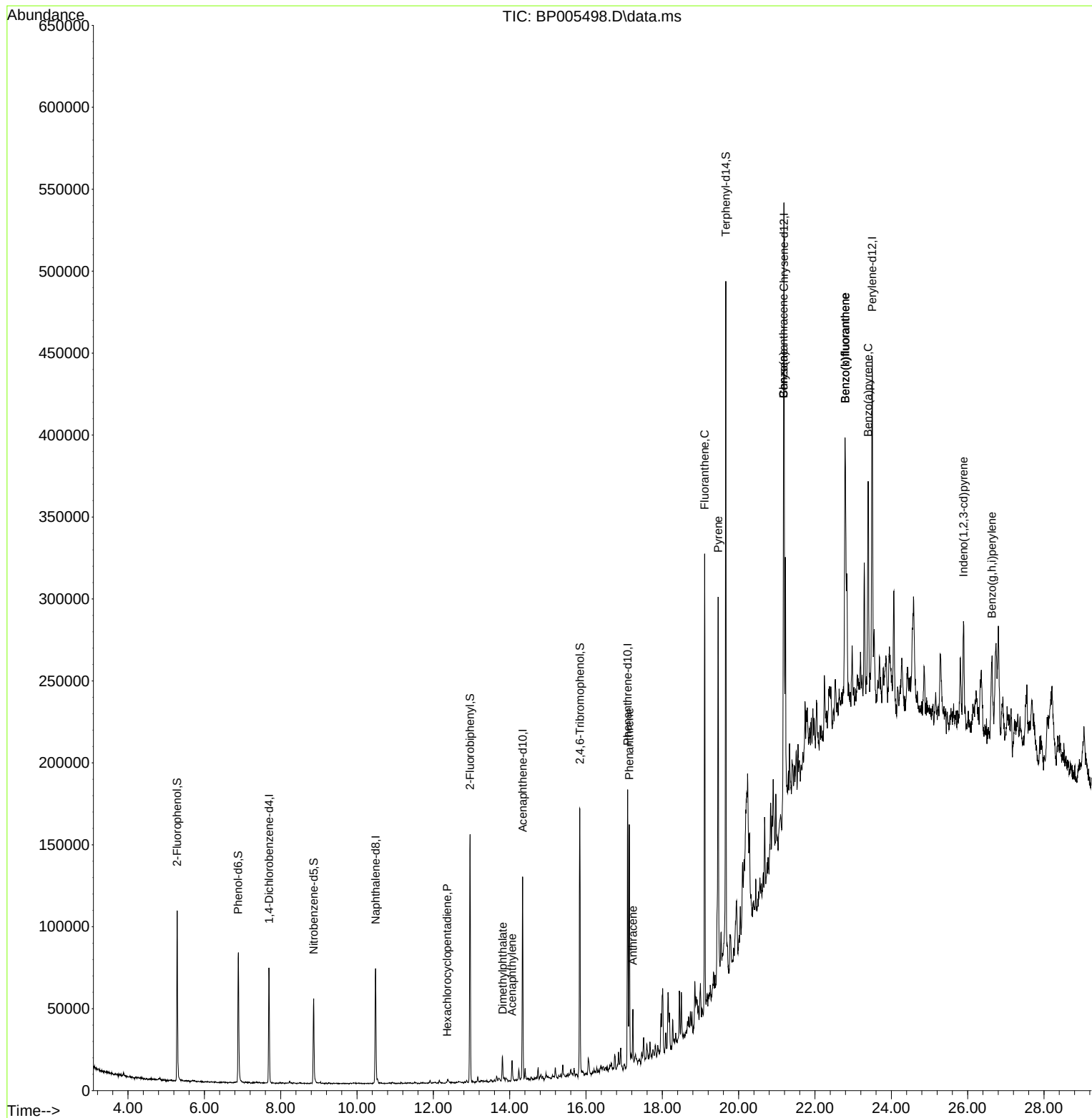
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.693  | 152  | 14413    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.487 | 136  | 41871    | 20.00     | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.340 | 164  | 33305    | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.092 | 188  | 89363    | 20.00     | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.186 | 240  | 134416   | 20.00     | ng    | # 0.00   |
| 86) Perylene-d12              | 23.498 | 264  | 159254   | 20.00     | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.287  | 112  | 32695    | 43.53     | ng    | 0.00     |
| 7) Phenol-d6                  | 6.887  | 99   | 33752    | 36.04     | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.863  | 82   | 27909    | 26.23     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.839 | 330  | 31053    | 32.86     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.963 | 172  | 64431    | 21.82     | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.663 | 244  | 159762   | 20.18     | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.181  | 88   | 85       | Below Cal | #     | 1        |
| 9) Benzaldehyde               | 6.834  | 77   | 89       | Below Cal | #     | 25       |
| 41) Hexachlorocyclopentadiene | 12.363 | 237  | 20       | 7.90      | ng    | 88       |
| 49) Acenaphthylene            | 14.063 | 152  | 7573     | 2.46      | ng    | # 92     |
| 50) Dimethylphthalate         | 13.816 | 163  | 6743     | 2.35      | ng    | # 94     |
| 71) Phenanthrene              | 17.134 | 178  | 68931    | 13.57     | ng    | 98       |
| 72) Anthracene                | 17.228 | 178  | 17375    | 3.45      | ng    | 96       |
| 75) Fluoranthene              | 19.110 | 202  | 142899   | 20.46     | ng    | 95       |
| 78) Pyrene                    | 19.463 | 202  | 135433   | 17.80     | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.174 | 228  | 79019    | 9.07      | ng    | 96       |
| 83) Chrysene                  | 21.174 | 228  | 79019    | 9.36      | ng    | 93       |
| 87) Indeno(1,2,3-cd)pyrene    | 25.892 | 276  | 67713    | 5.05      | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 22.792 | 252  | 123620   | 11.65     | ng    | 93       |
| 89) Benzo(k)fluoranthene      | 22.792 | 252  | 123003   | 11.85     | ng    | # 90     |
| 90) Benzo(a)pyrene            | 23.392 | 252  | 88067    | 9.05      | ng    | 93       |
| 92) Benzo(g,h,i)perylene      | 26.633 | 276  | 68485    | 6.26      | ng    | # 94     |
| -----                         |        |      |          |           |       |          |

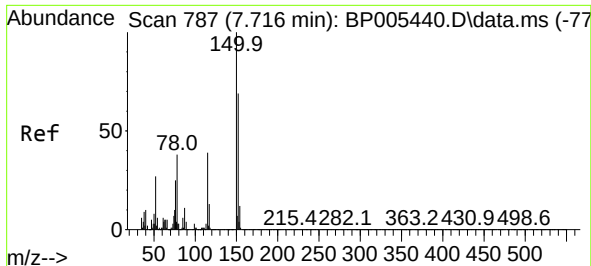
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP051121\  
Data File : BP005498.D  
Acq On : 11 May 2021 20:14  
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Sample : M2335-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

Quant Time: May 12 05:28:30 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP050521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 11 11:20:59 2021  
Response via : Initial Calibration

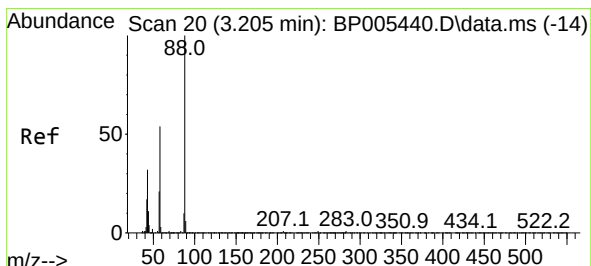
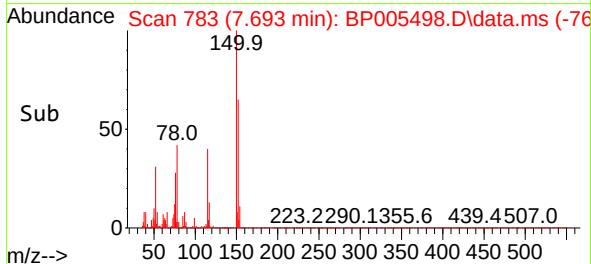
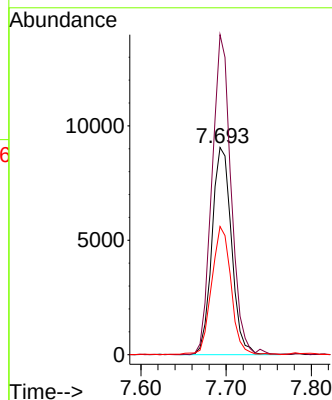
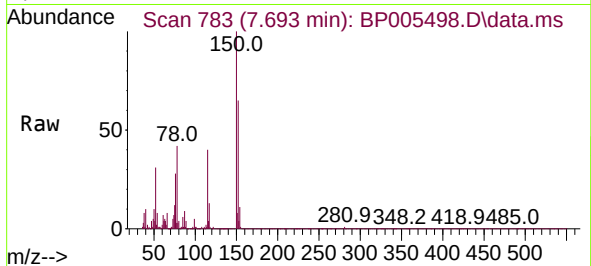




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.693 min Scan# 783  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

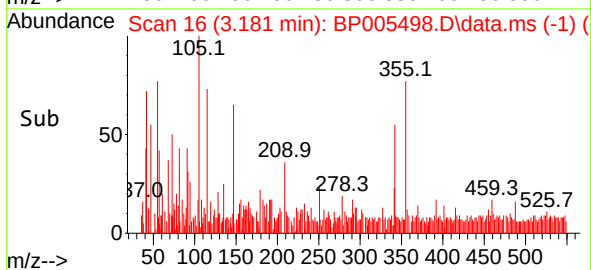
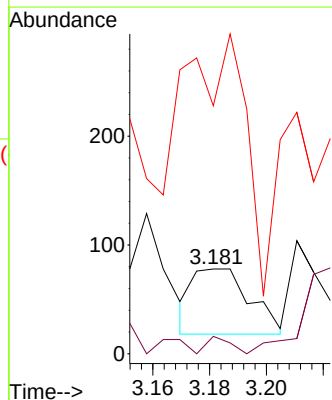
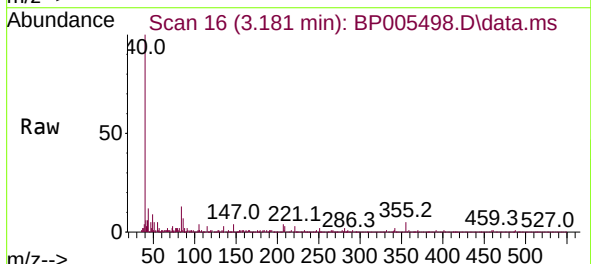
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

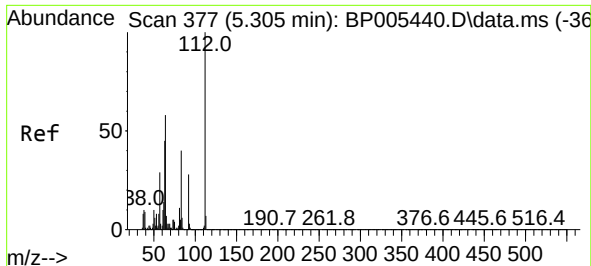
Tgt Ion:152 Resp: 14413  
Ion Ratio Lower Upper  
152 100  
150 154.4 119.8 179.8  
115 61.8 49.0 73.4



#2  
1,4-Dioxane  
Concen: Below Cal  
RT: 3.181 min Scan# 16  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion: 88 Resp: 85  
Ion Ratio Lower Upper  
88 100  
58 10.6 42.5 63.7#  
43 421.2 19.8 29.8#

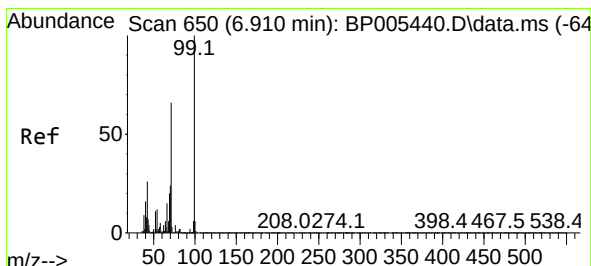
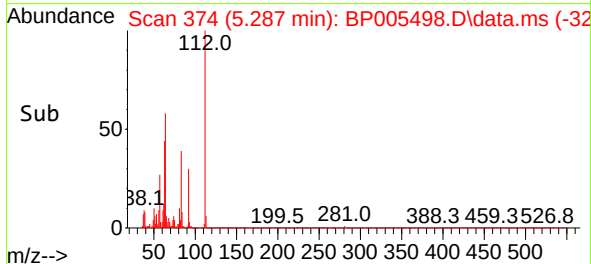
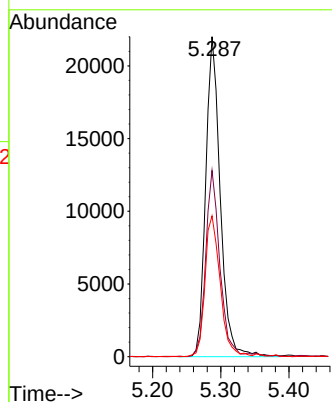
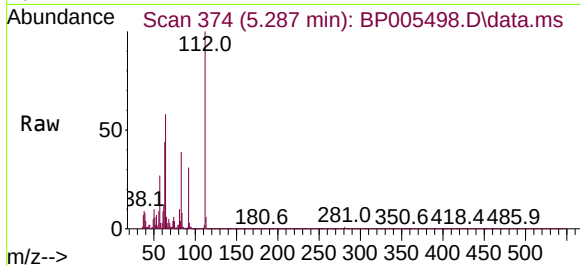




#5  
2-Fluorophenol  
Concen: 43.53 ng  
RT: 5.287 min Scan# 374  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

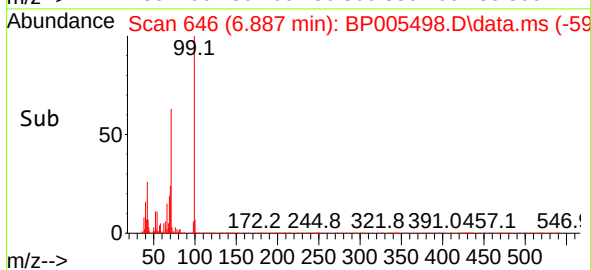
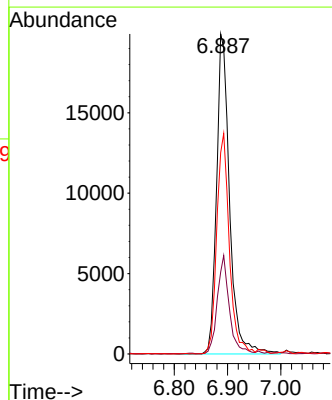
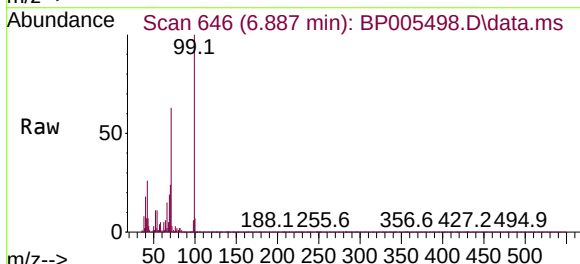
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

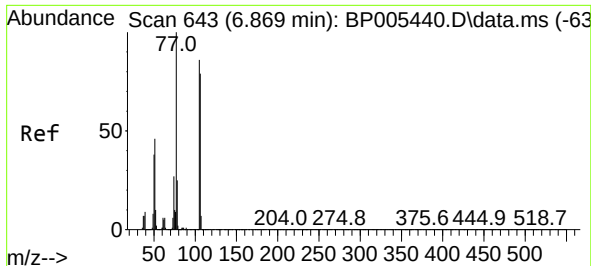
Tgt Ion:112 Resp: 32695  
Ion Ratio Lower Upper  
112 100  
64 58.2 33.6 50.4#  
63 44.0 18.6 27.8#



#7  
Phenol-d6  
Concen: 36.04 ng  
RT: 6.887 min Scan# 646  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion: 99 Resp: 33752  
Ion Ratio Lower Upper  
99 100  
42 25.6 12.9 19.3#  
71 62.9 26.7 40.1#

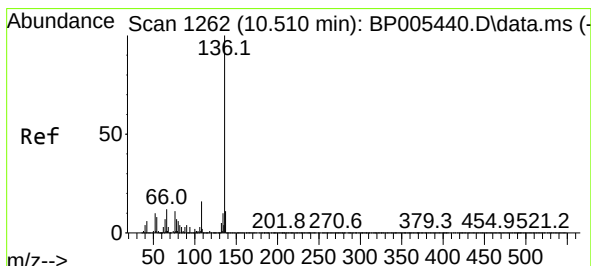
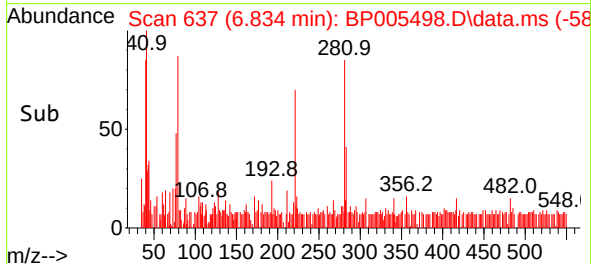
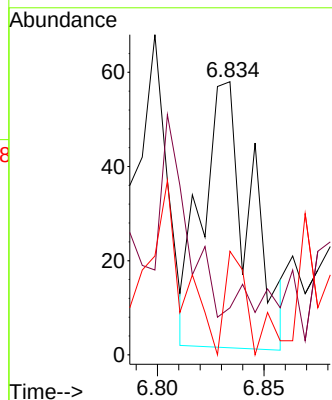
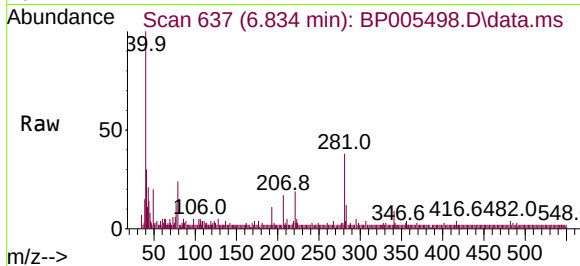




#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.834 min Scan# 637  
Delta R.T. -0.012 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

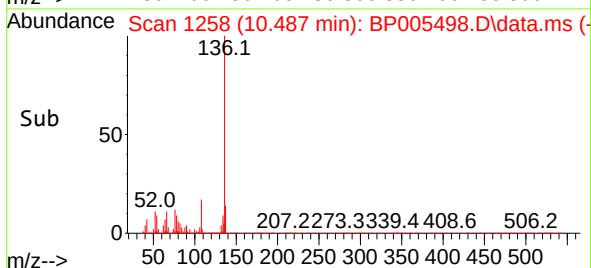
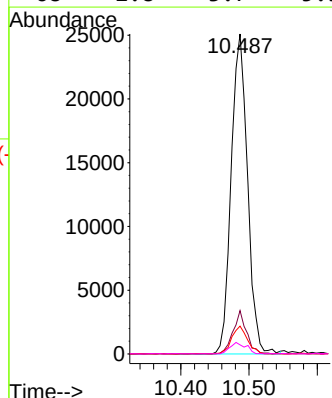
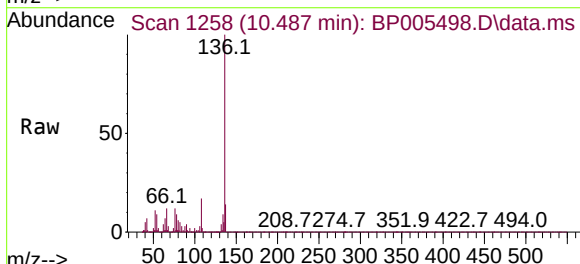
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

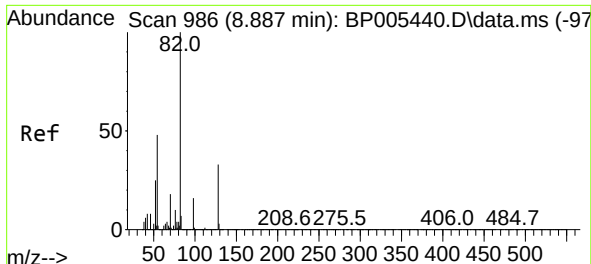
Tgt Ion: 77 Resp: 89  
Ion Ratio Lower Upper  
77 100  
105 17.2 89.4 129.4#  
106 37.9 79.9 119.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.487 min Scan# 1258  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion: 136 Resp: 41871  
Ion Ratio Lower Upper  
136 100  
137 13.5 8.9 13.3#  
54 8.7 5.0 7.4#  
68 2.8 3.7 5.5#

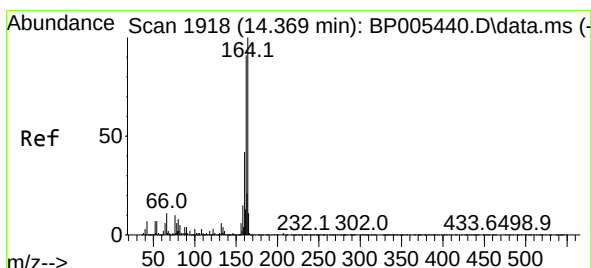
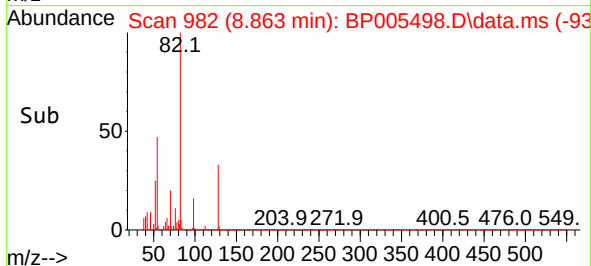
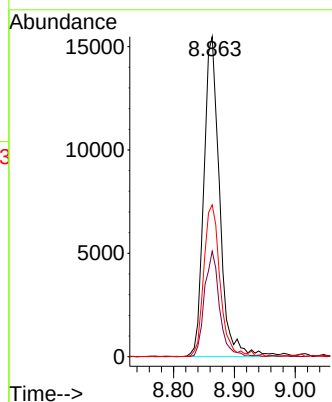
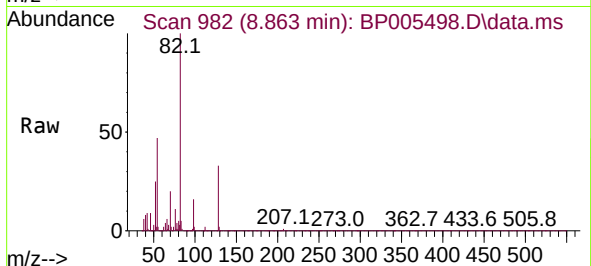




#23  
Nitrobenzene-d5  
Concen: 26.23 ng  
RT: 8.863 min Scan# 982  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

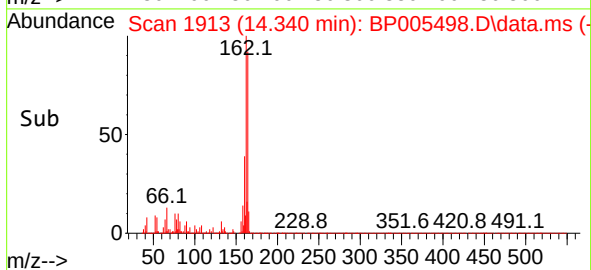
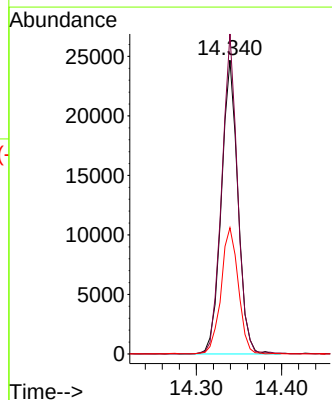
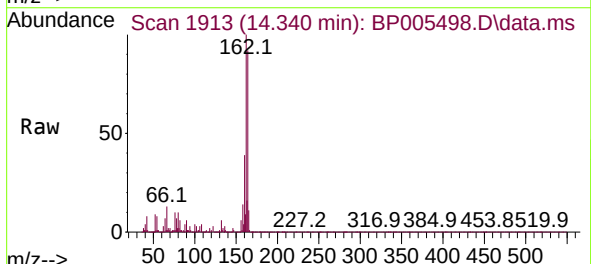
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BNA\_P  
ClientSampleId :  
OK-02-050721

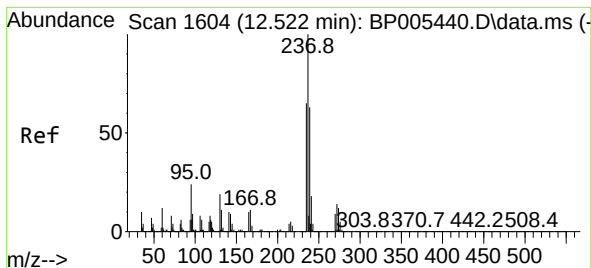
|             |             |
|-------------|-------------|
| Tgt Ion: 82 | Resp: 27909 |
| Ion Ratio   | Lower Upper |
| 82 100      |             |
| 128 33.0    | 30.5 45.7   |
| 54 47.5     | 33.9 50.9   |



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.340 min Scan# 1913  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

|              |             |
|--------------|-------------|
| Tgt Ion: 164 | Resp: 33305 |
| Ion Ratio    | Lower Upper |
| 164 100      |             |
| 162 108.9    | 73.5 110.3  |
| 160 43.0     | 40.6 61.0   |



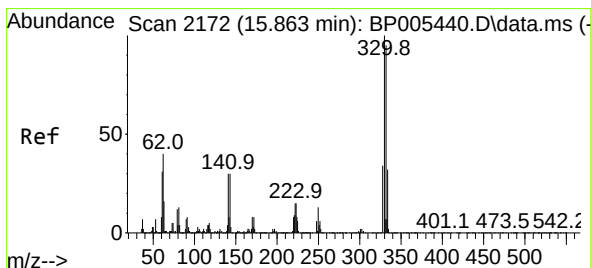
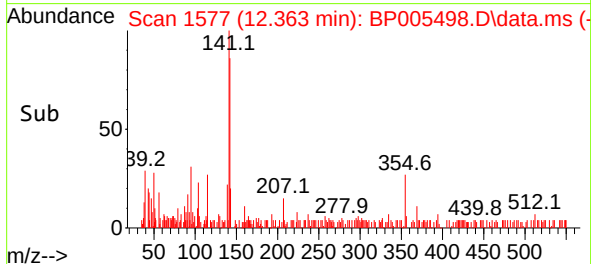
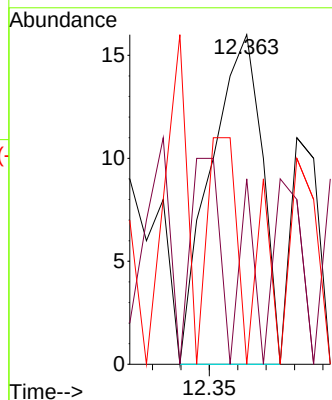
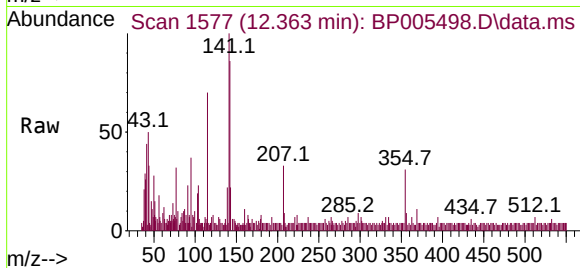


#41

Hexachlorocyclopentadiene  
Concen: 7.90 ng  
RT: 12.363 min Scan# 1577  
Delta R.T. -0.135 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

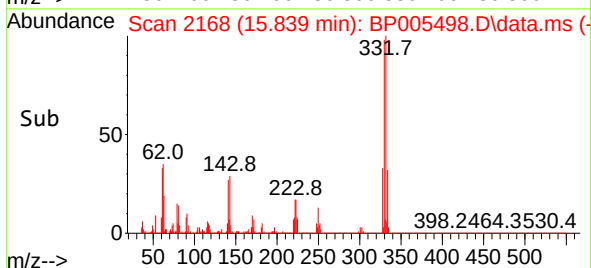
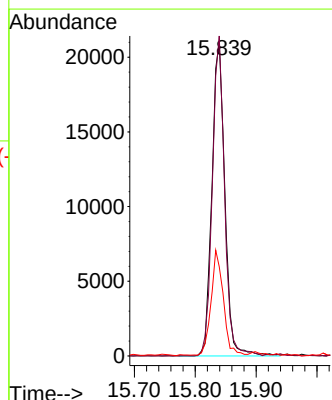
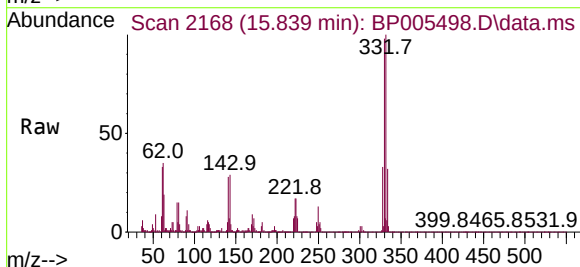
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 237   | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 237      | 100   |       |       |
| 235      | 56.3  | 40.9  | 80.9  |
| 272      | 0.0   | 0.0   | 34.6  |

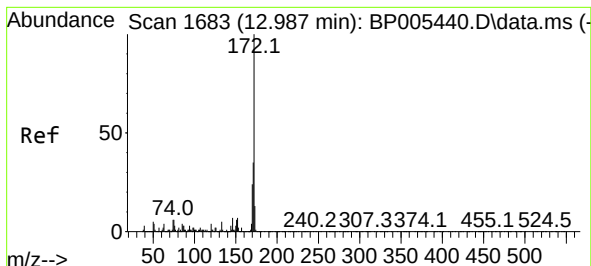


#42

2,4,6-Tribromophenol  
Concen: 32.86 ng  
RT: 15.839 min Scan# 2168  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 31053 |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 96.0  | 76.3  | 114.5 |
| 141      | 31.3  | 22.8  | 34.2  |

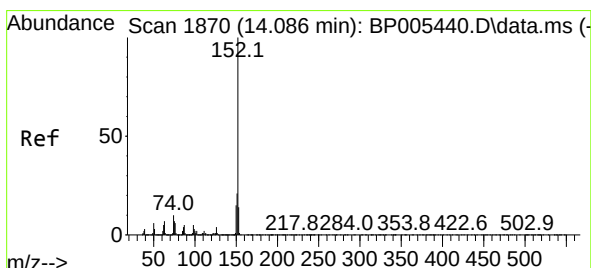
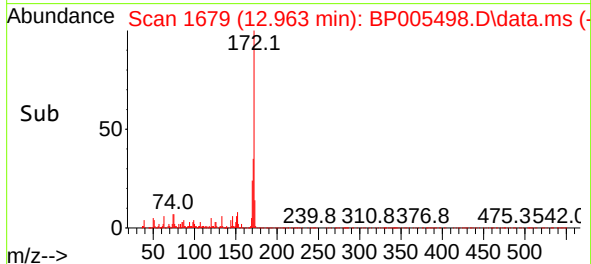
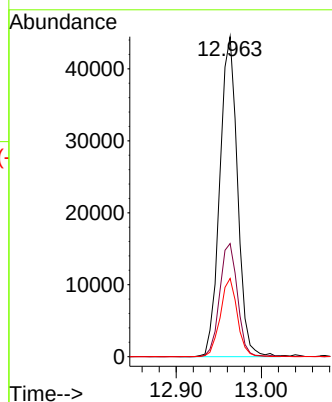
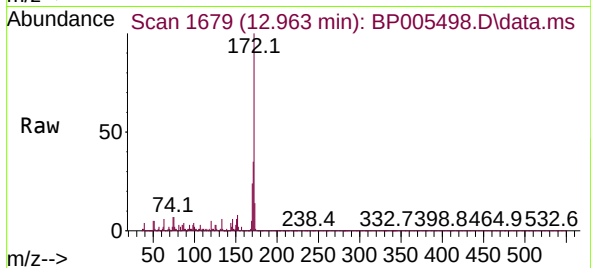




#45  
2-Fluorobiphenyl  
Concen: 21.82 ng  
RT: 12.963 min Scan# 1679  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

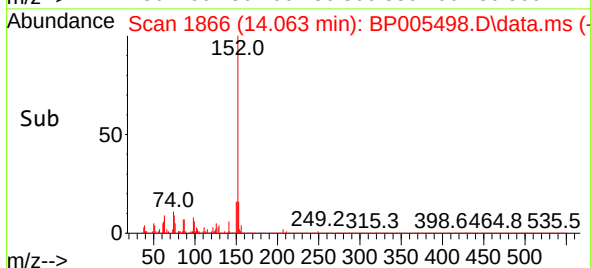
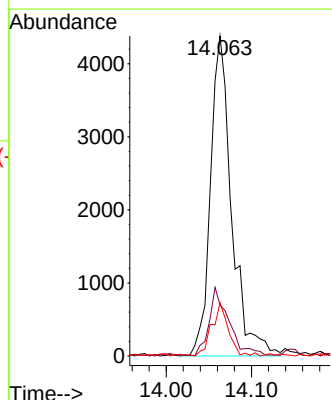
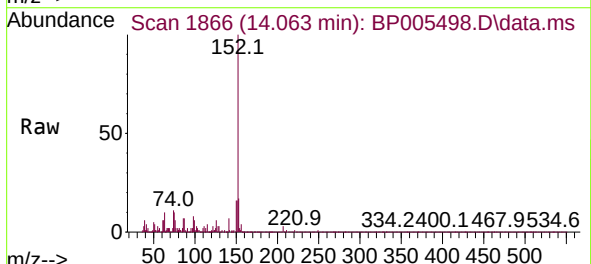
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 64431     |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 35.3  | 28.1 42.1 |
| 170         | 24.5  | 19.6 29.4 |

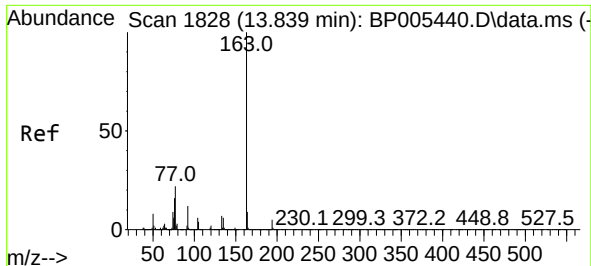


#49  
Acenaphthylene  
Concen: 2.46 ng  
RT: 14.063 min Scan# 1866  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:152 | Resp: | 7573       |
| Ion Ratio   | Lower | Upper      |
| 152         | 100   |            |
| 151         | 15.9  | 15.8 23.6  |
| 153         | 16.6  | 10.5 15.7# |



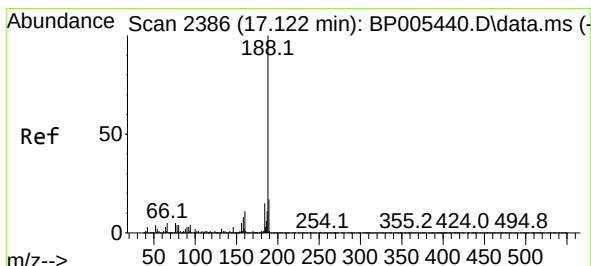
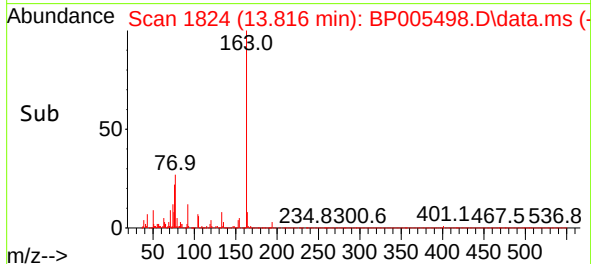
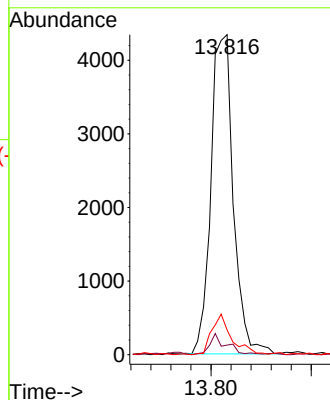
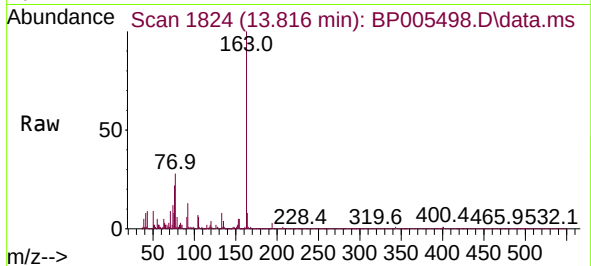




#50  
Dimethylphthalate  
Concen: 2.35 ng  
RT: 13.816 min Scan# 1824  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

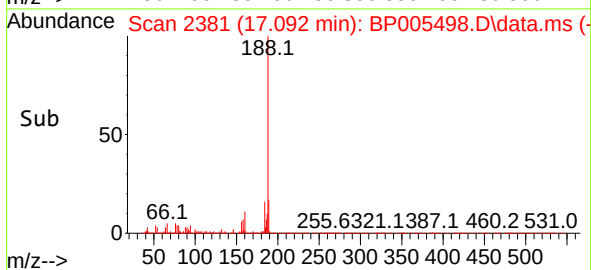
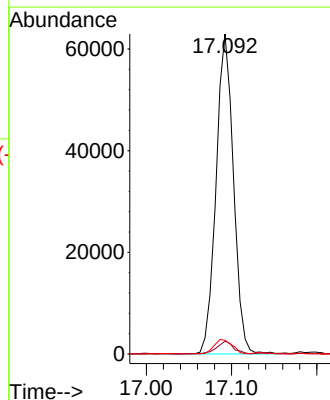
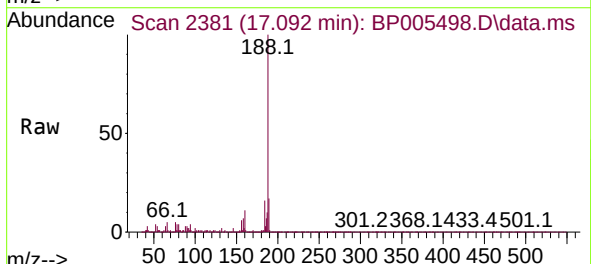
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

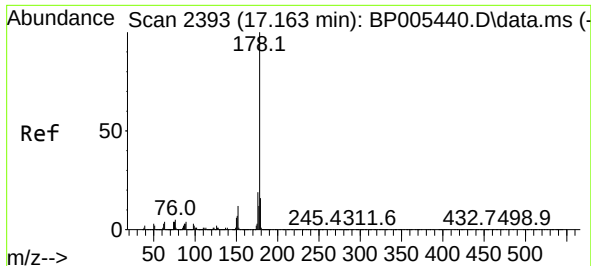
Tgt Ion:163 Resp: 6743  
Ion Ratio Lower Upper  
163 100  
194 3.0 3.9 5.9#  
164 7.8 8.1 12.1#



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.092 min Scan# 2381  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion:188 Resp: 89363  
Ion Ratio Lower Upper  
188 100  
94 4.0 5.0 7.6#  
80 4.3 5.9 8.9#

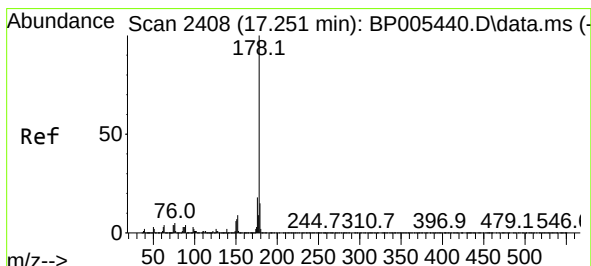
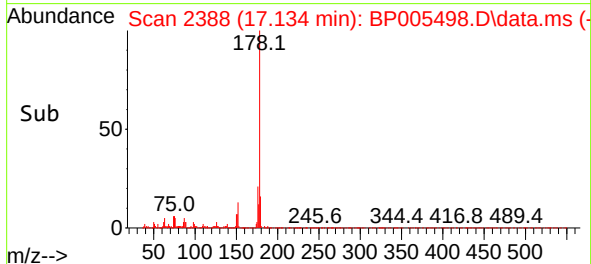
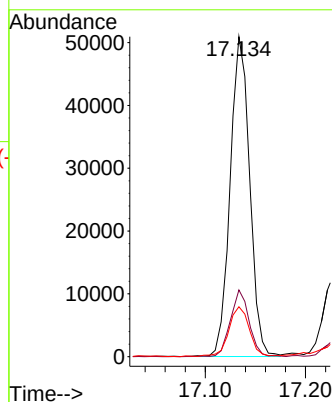
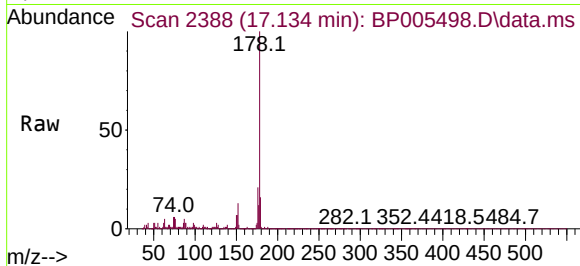




#71  
Phenanthrene  
Concen: 13.57 ng  
RT: 17.134 min Scan# 2388  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

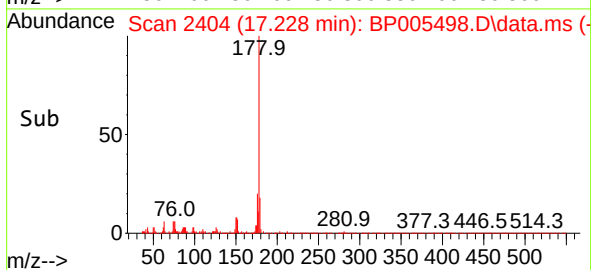
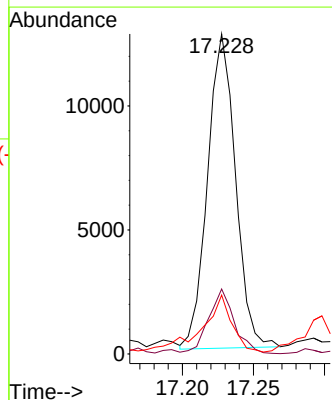
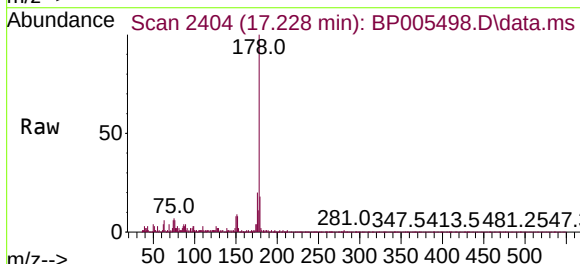
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

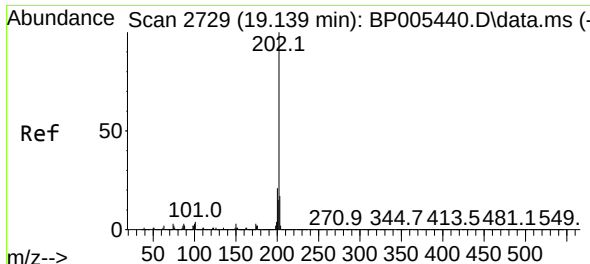
Tgt Ion:178 Resp: 68931  
Ion Ratio Lower Upper  
178 100  
176 20.8 15.4 23.2  
179 15.6 12.3 18.5



#72  
Anthracene  
Concen: 3.45 ng  
RT: 17.228 min Scan# 2404  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion:178 Resp: 17375  
Ion Ratio Lower Upper  
178 100  
176 20.3 15.2 22.8  
179 18.4 12.6 19.0

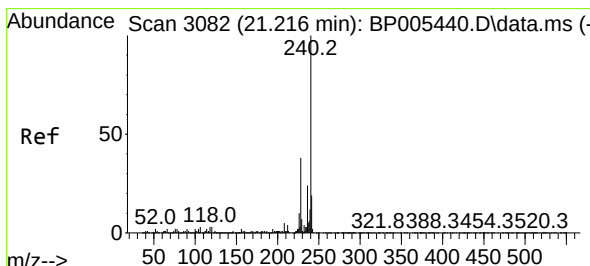
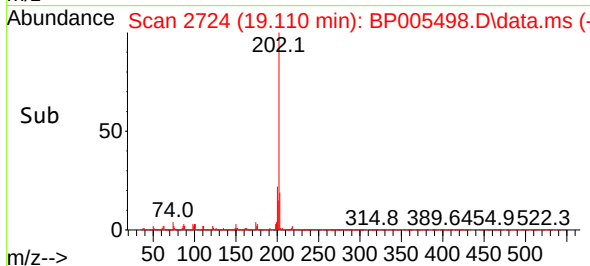
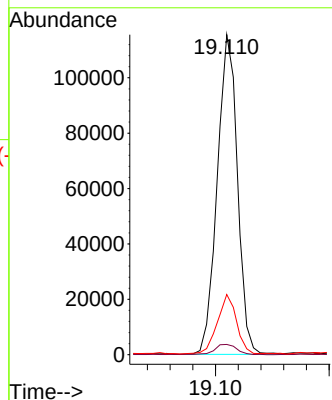
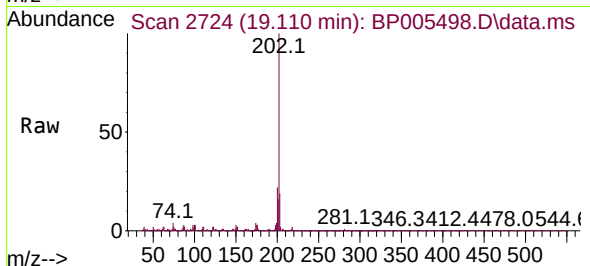




#75  
Fluoranthene  
Concen: 20.46 ng  
RT: 19.110 min Scan# 2724  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

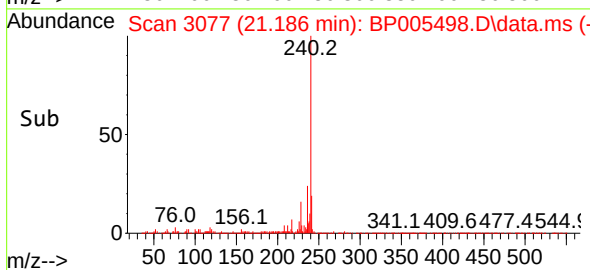
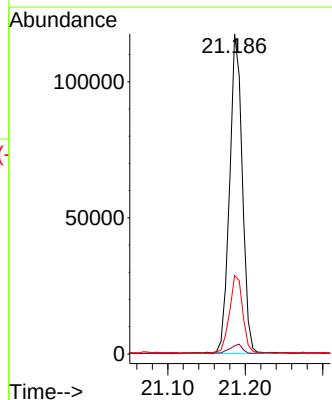
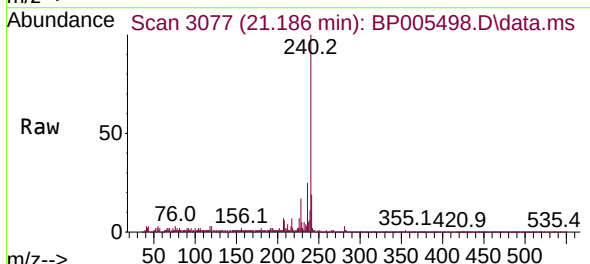
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

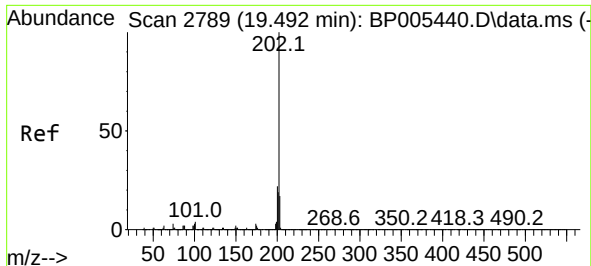
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 142899   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 3.2   | 0.0 26.1 |
| 203         | 18.8  | 0.0 37.2 |



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.186 min Scan# 3077  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 134416    |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 2.6   | 4.2 6.2#  |
| 236         | 24.5  | 20.2 30.2 |

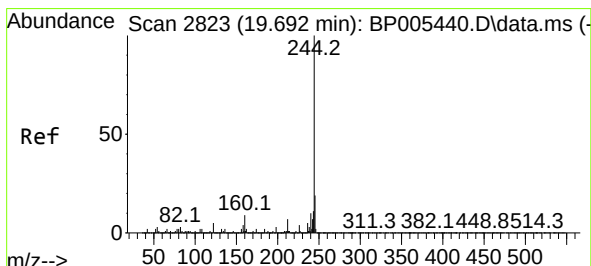
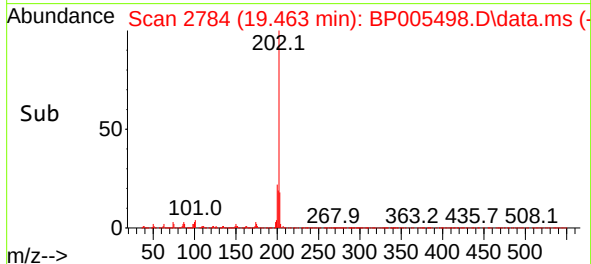
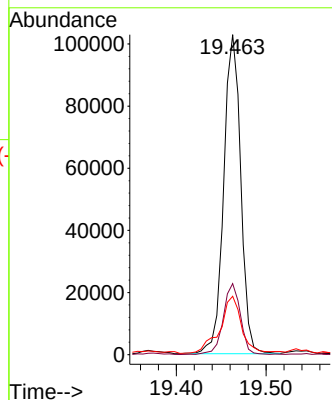
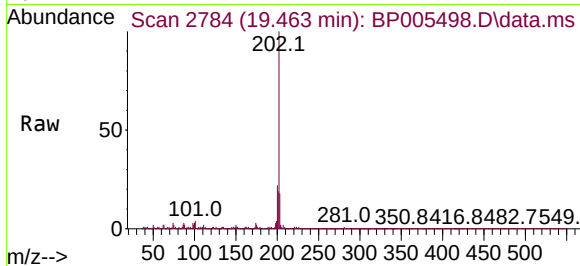




#78  
Pyrene  
Concen: 17.80 ng  
RT: 19.463 min Scan# 2784  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

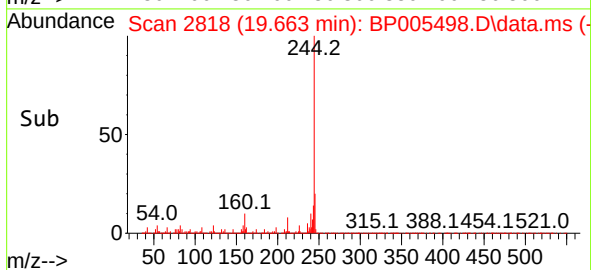
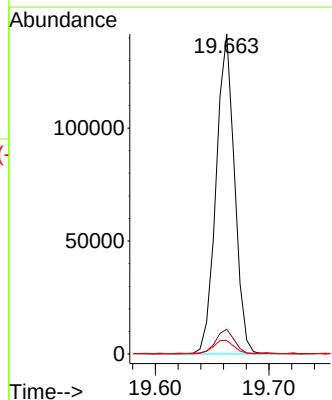
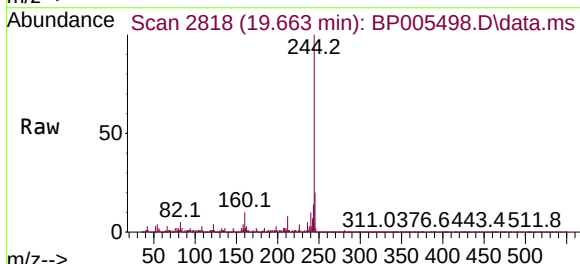
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

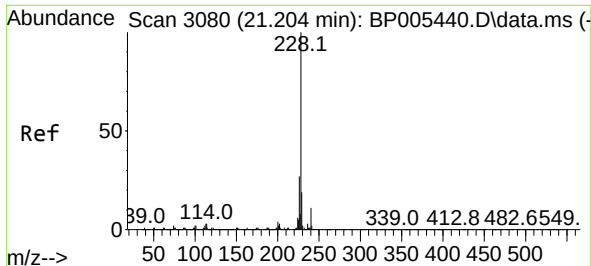
Tgt Ion:202 Resp: 135433  
Ion Ratio Lower Upper  
202 100  
200 22.2 16.9 25.3  
203 18.3 13.8 20.6



#79  
Terphenyl-d14  
Concen: 20.18 ng  
RT: 19.663 min Scan# 2818  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion:244 Resp: 159762  
Ion Ratio Lower Upper  
244 100  
212 7.7 5.8 8.6  
122 4.2 5.2 7.8#

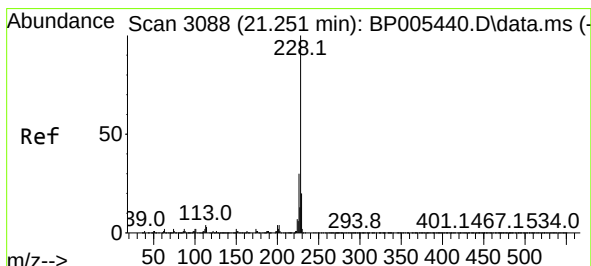
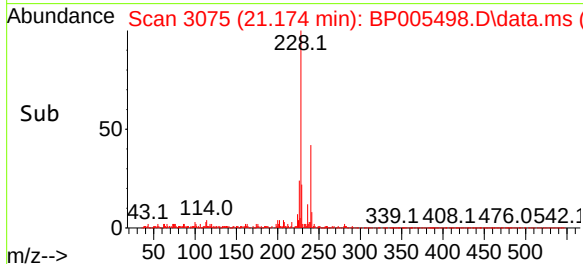
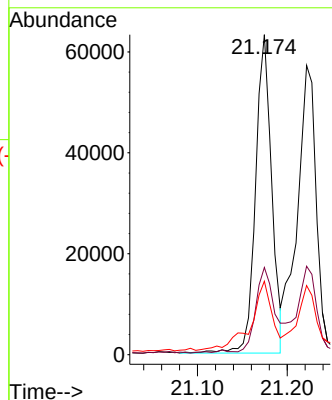
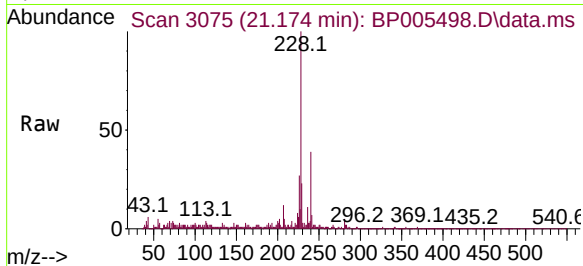




#81  
Benzo(a)anthracene  
Concen: 9.07 ng  
RT: 21.174 min Scan# 3075  
Delta R.T. -0.000 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

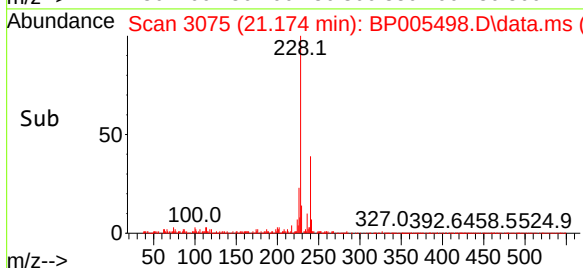
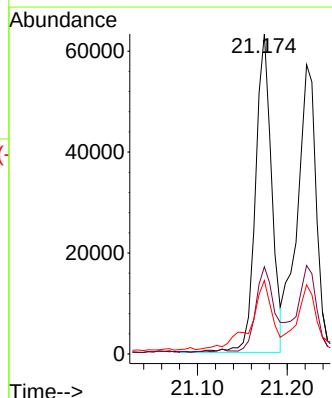
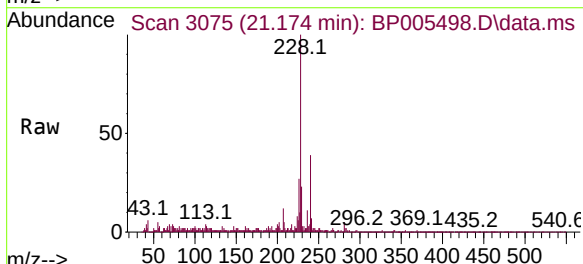
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

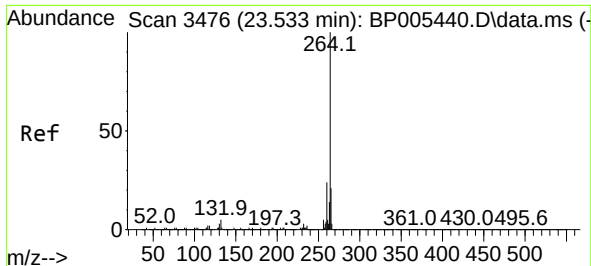
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 79019 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.3  | 21.2  | 31.8  |
| 229       | 22.9  | 15.6  | 23.4  |



#83  
Chrysene  
Concen: 9.36 ng  
RT: 21.174 min Scan# 3075  
Delta R.T. -0.053 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 79019 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.3  | 24.8  | 37.2  |
| 229       | 22.9  | 15.4  | 23.0  |

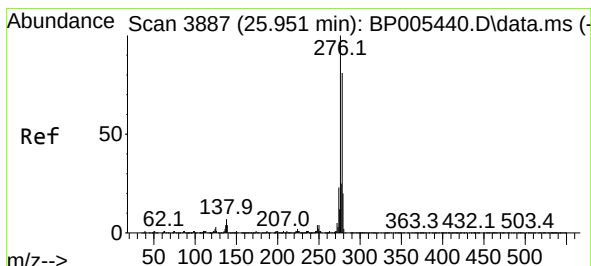
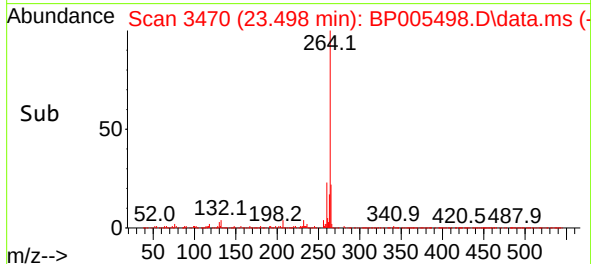
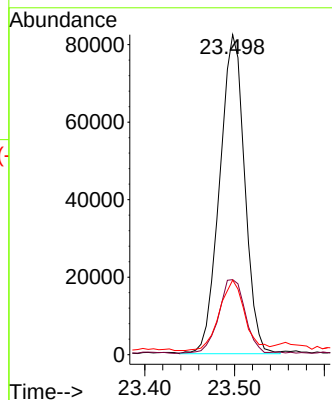
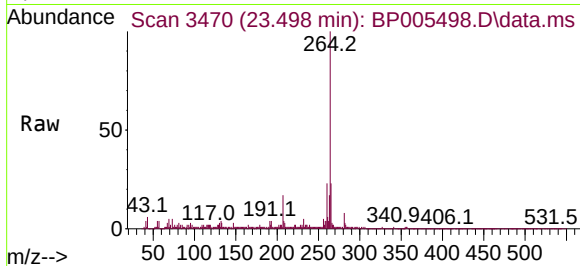




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.498 min Scan# 3470  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

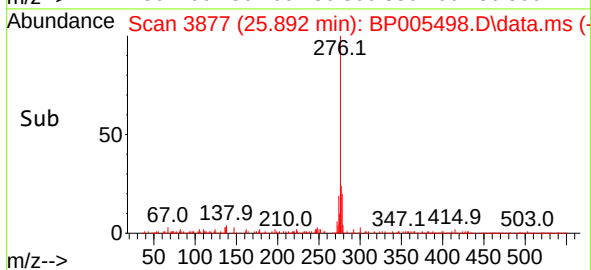
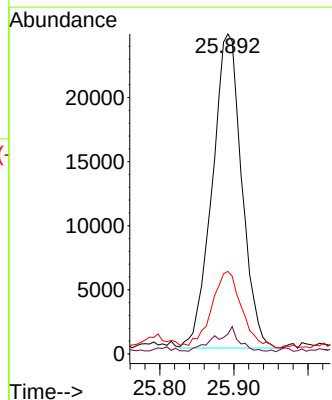
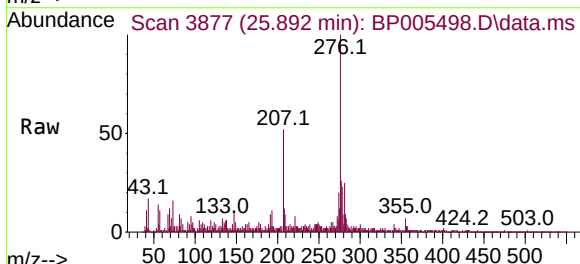
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

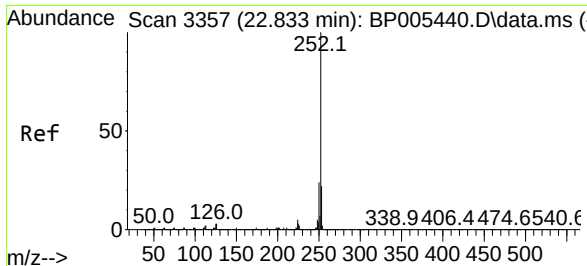
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 159254 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.5  | 20.6  | 30.8   |
| 265       | 23.3  | 19.0  | 28.6   |



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.05 ng  
RT: 25.892 min Scan# 3877  
Delta R.T. -0.012 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 67713 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 6.1   | 8.4   | 12.6# |
| 277       | 24.7  | 20.6  | 31.0  |

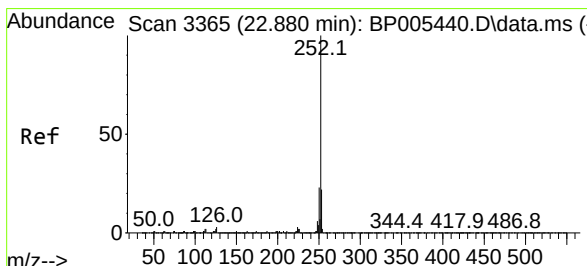
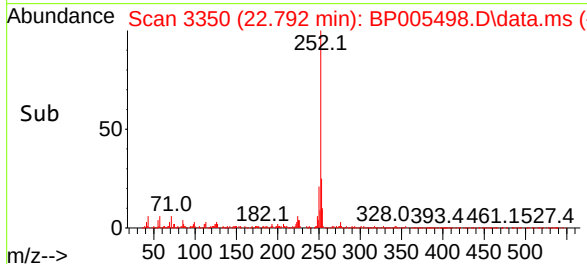
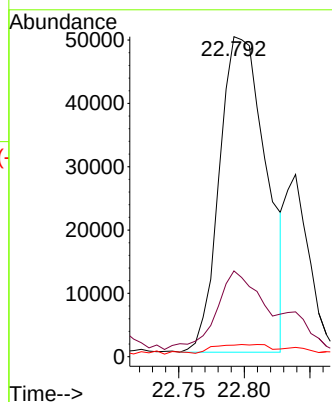
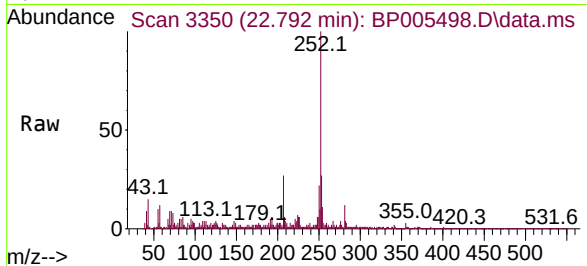




#88  
Benzo(b)fluoranthene  
Concen: 11.65 ng  
RT: 22.792 min Scan# 3350  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

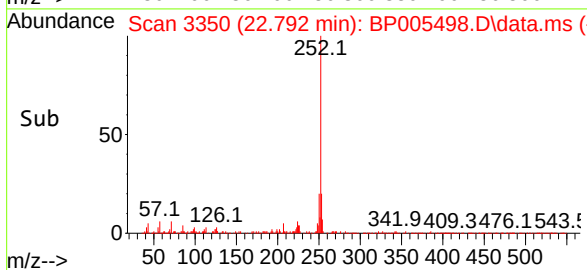
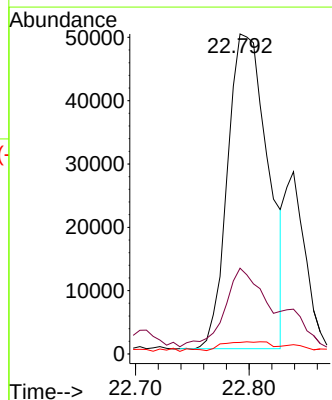
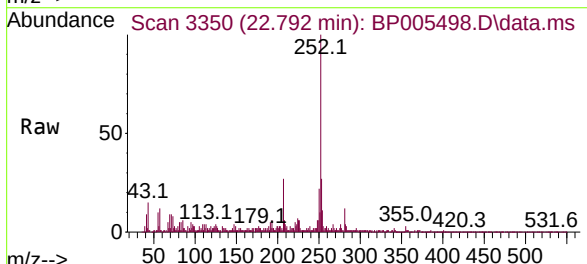
Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

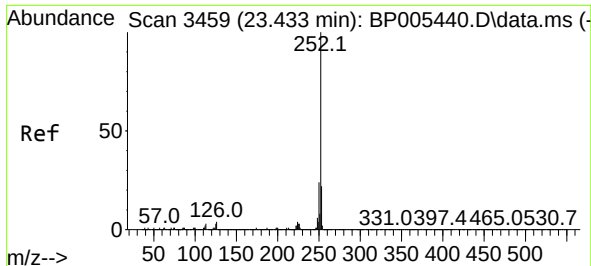
Tgt Ion:252 Resp: 123620  
Ion Ratio Lower Upper  
252 100  
253 26.8 18.2 27.2  
125 3.6 3.4 5.0



#89  
Benzo(k)fluoranthene  
Concen: 11.85 ng  
RT: 22.792 min Scan# 3350  
Delta R.T. -0.053 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion:252 Resp: 123003  
Ion Ratio Lower Upper  
252 100  
253 26.8 17.2 25.8#  
125 3.6 3.8 5.6#

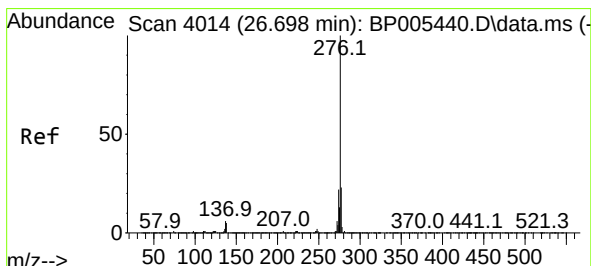
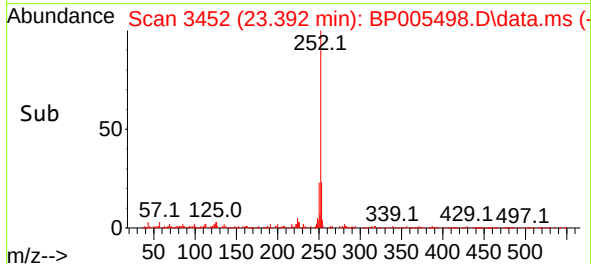
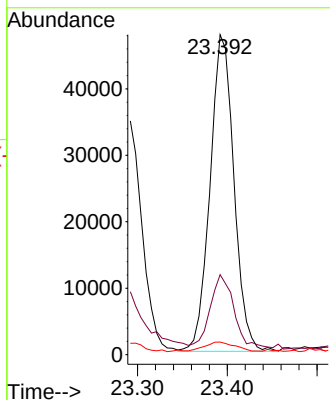
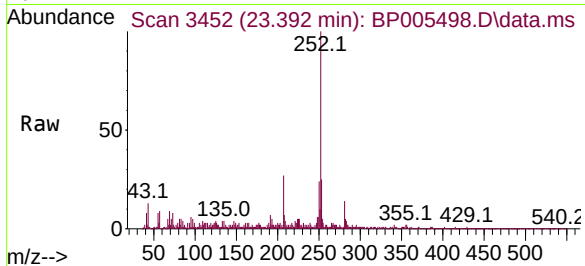




#90  
Benzo(a)pyrene  
Concen: 9.05 ng  
RT: 23.392 min Scan# 3452  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Instrument :  
BNA\_P  
ClientSampleId :  
OK-02-050721

Tgt Ion:252 Resp: 88067  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.1 25.7  
125 3.9 3.8 5.6



#92  
Benzo(g,h,i)perylene  
Concen: 6.26 ng  
RT: 26.633 min Scan# 4003  
Delta R.T. -0.006 min  
Lab File: BP005498.D  
Acq: 11 May 2021 20:14

Tgt Ion:276 Resp: 68485  
Ion Ratio Lower Upper  
276 100  
277 22.3 19.8 29.8  
138 6.9 7.7 11.5#

