

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP040821\  
 Data File : BP005246.D  
 Acq On : 08 Apr 2021 20:56  
 Operator : CG/JU  
 Sample : M1969-01 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 OK-01-040721

Manual Integrations  
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 4/9/2021 11:19:03 AM

Quant Time: Apr 09 00:46:02 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP032321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 06 12:33:08 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.687  | 152  | 25803    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.481 | 136  | 84982    | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.351 | 164  | 48722    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.110 | 188  | 109352   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.216 | 240  | 140671   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.498 | 264  | 153953   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.287  | 112  | 38473    | 22.95 | ng    | 0.00     |
| 7) Phenol-d6                | 6.875  | 99   | 43628    | 18.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.852  | 82   | 29132    | 14.71 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.851 | 330  | 11709    | 18.44 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.963 | 172  | 46676    | 12.96 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.686 | 244  | 92624    | 11.99 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 71) Phenanthrene            | 17.151 | 178  | 58971    | 9.30  | ng    | 98       |
| 72) Anthracene              | 17.245 | 178  | 16389    | 2.65  | ng    | 99       |
| 75) Fluoranthene            | 19.139 | 202  | 95552    | 12.81 | ng    | 99       |
| 78) Pyrene                  | 19.492 | 202  | 89194    | 9.23  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.198 | 228  | 58201    | 6.09  | ng    | 96       |
| 83) Chrysene                | 21.251 | 228  | 58003    | 6.18  | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.833 | 276  | 28366    | 2.46  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 22.810 | 252  | 68903    | 6.30  | ng    | # 96     |
| 89) Benzo(k)fluoranthene    | 22.845 | 252  | 32395m   | 3.09  | ng    |          |
| 90) Benzo(a)pyrene          | 23.392 | 252  | 52771    | 5.38  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 26.551 | 276  | 30512    | 3.17  | ng    | 93       |
| -----                       |        |      |          |       |       |          |

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

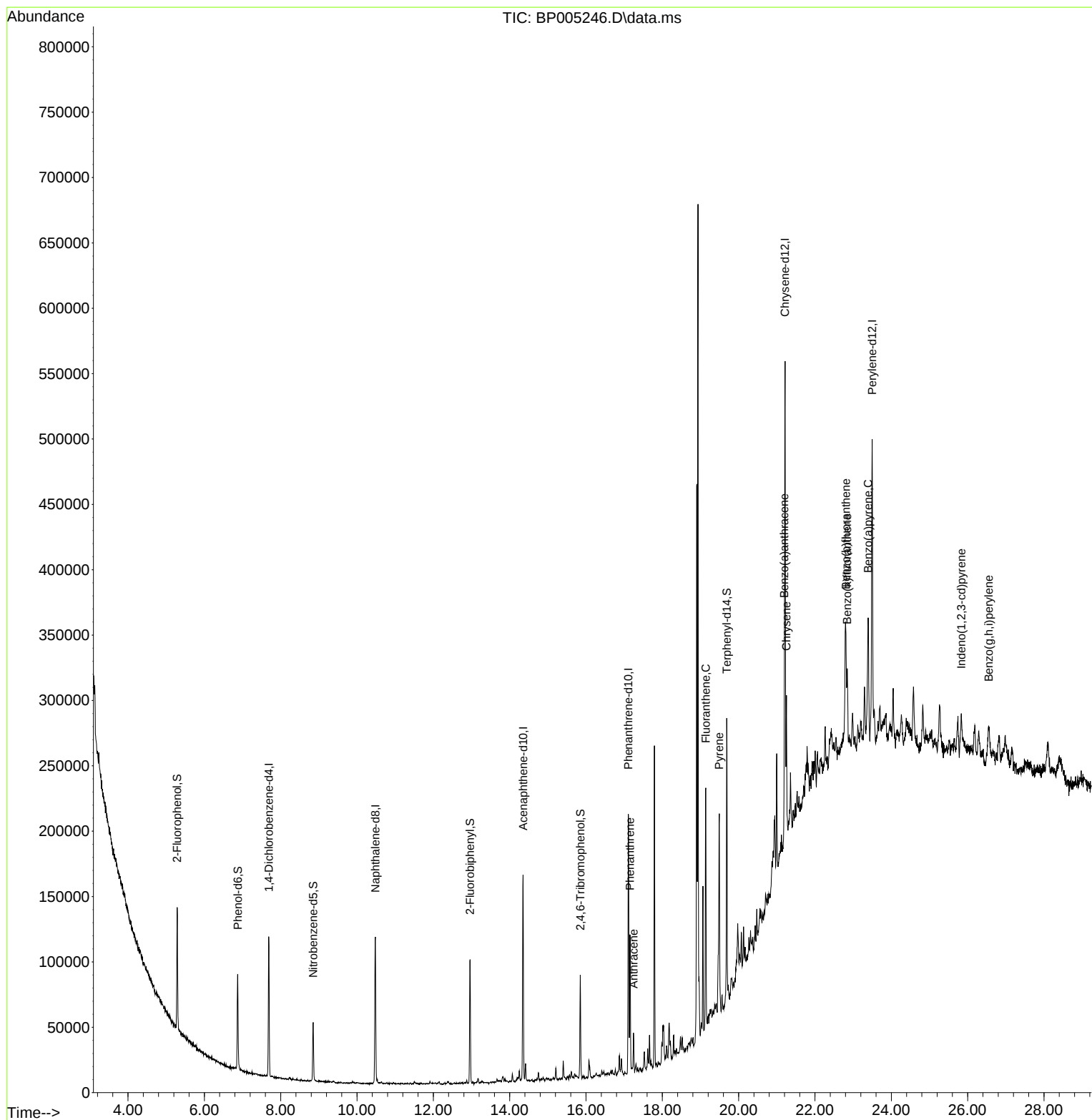
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP040821\  
Data File : BP005246.D  
Acq On : 08 Apr 2021 20:56  
Operator : CG/JU  
Sample : M1969-01 5X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

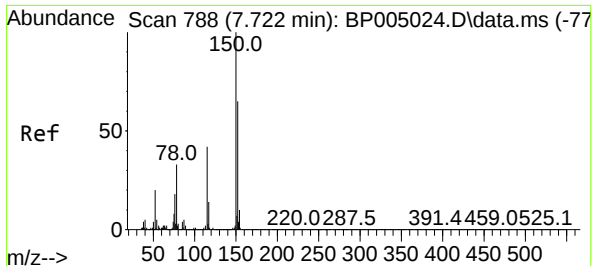
Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721

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Quant Time: Apr 09 00:46:02 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP032321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 06 12:33:08 2021  
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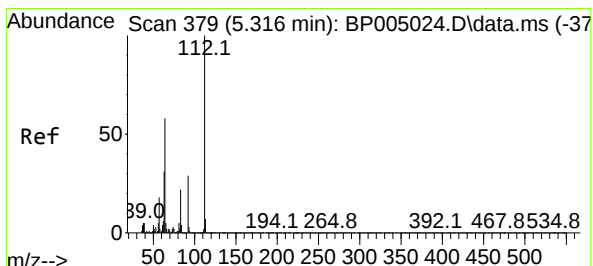
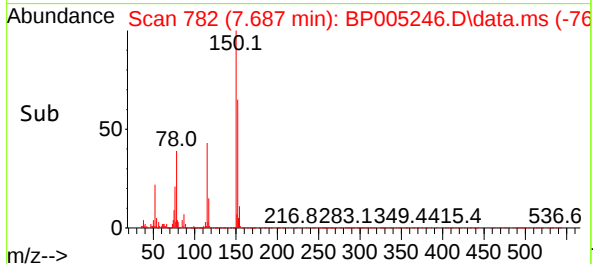
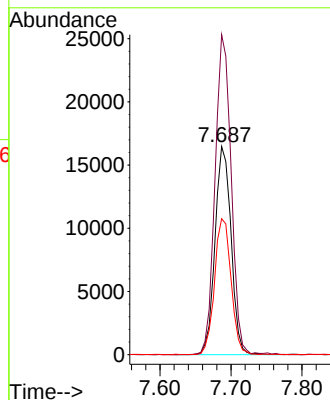
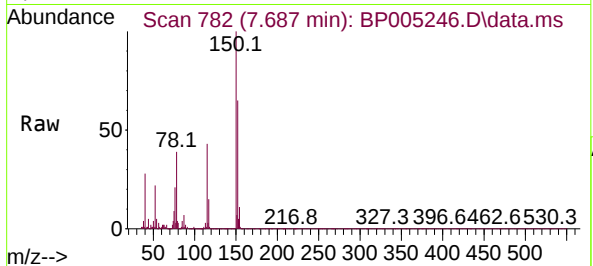
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.687 min Scan# 782  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.7 | 123.8 | 185.6 |
| 115     | 65.4  | 43.8  | 65.6  |

Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721

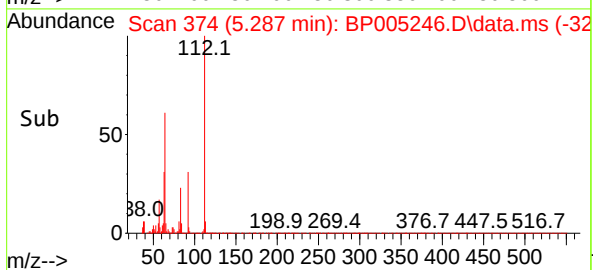
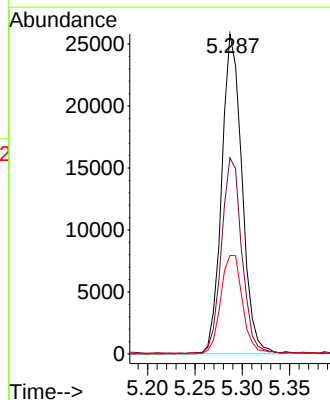
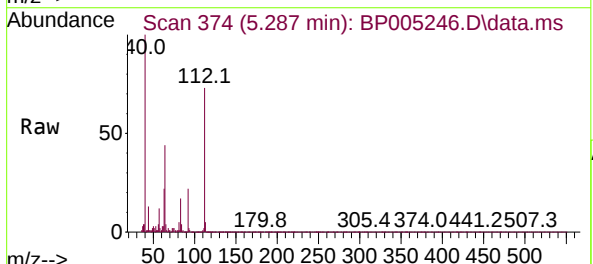
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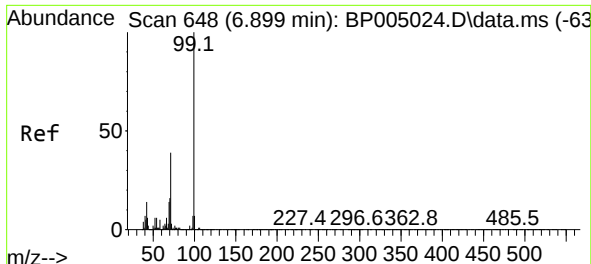
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#5  
2-Fluorophenol  
Concen: 22.95 ng  
RT: 5.287 min Scan# 374  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

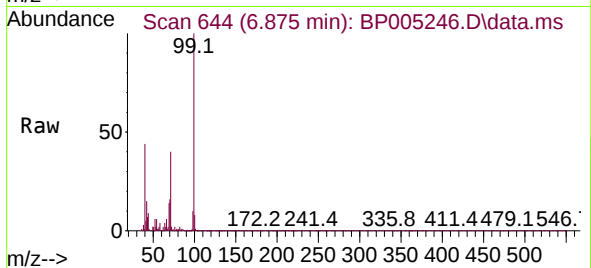
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.3  | 32.8  | 49.2# |
| 63      | 30.8  | 17.0  | 25.4# |





#7  
Phenol-d6  
Concen: 18.17 ng  
RT: 6.875 min Scan# 644  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

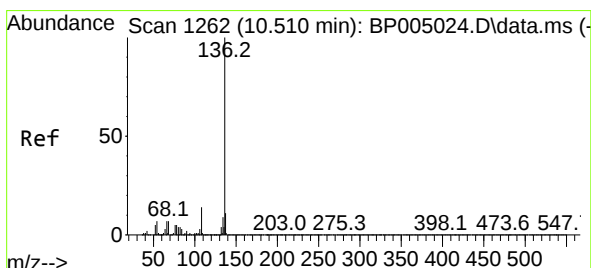
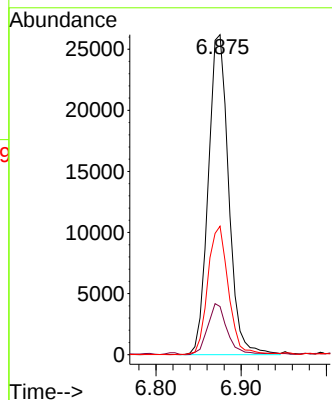
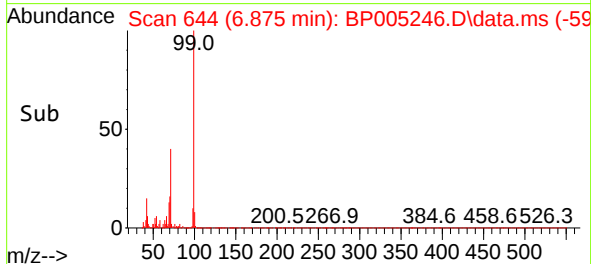
Instrument :  
BNA\_P  
ClientSampleId :  
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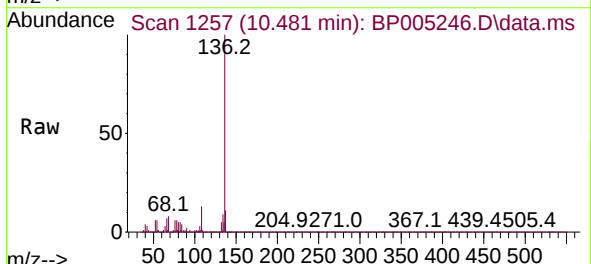
Tgt Ion: 99 Resp: 43628  
Ion Ratio Lower Upper  
99 100  
42 15.0 8.6 13.0#  
71 40.1 23.4 35.2#

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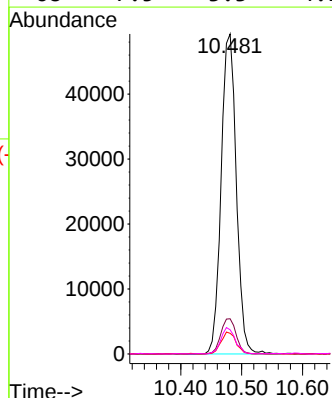
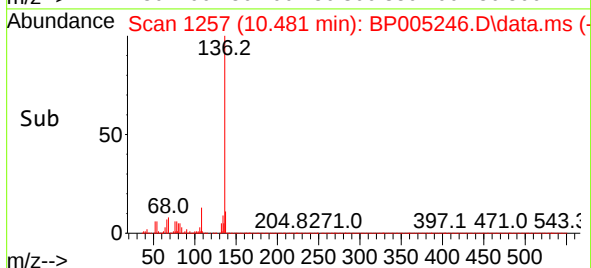
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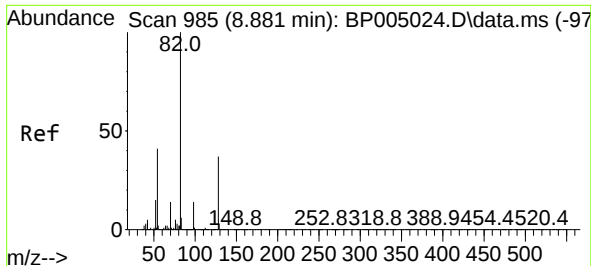


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.481 min Scan# 1257  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56



Tgt Ion: 136 Resp: 84982  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 6.5 3.6 5.4#  
68 7.5 3.3 4.9#





#23

Nitrobenzene-d5

Concen: 14.71 ng

RT: 8.852 min Scan# 980

Delta R.T. -0.006 min

Lab File: BP005246.D

Acq: 08 Apr 2021 20:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 29132 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 32.1  | 45.6  | 68.4# |
| 54       | 37.7  | 30.1  | 45.1  |

Instrument :

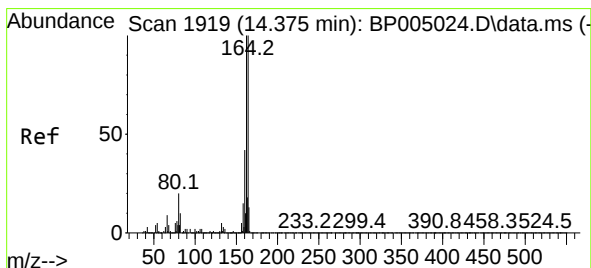
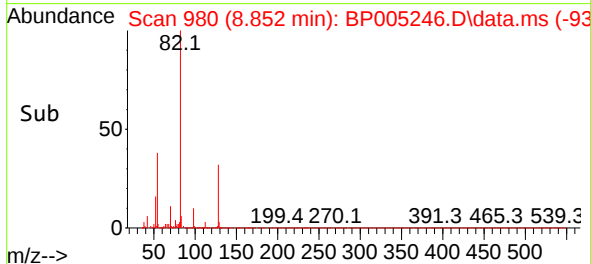
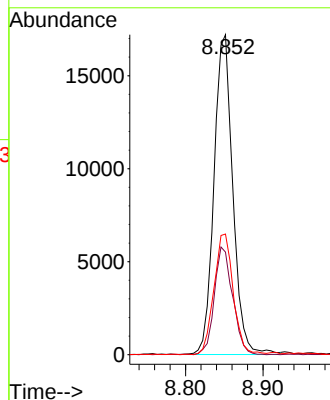
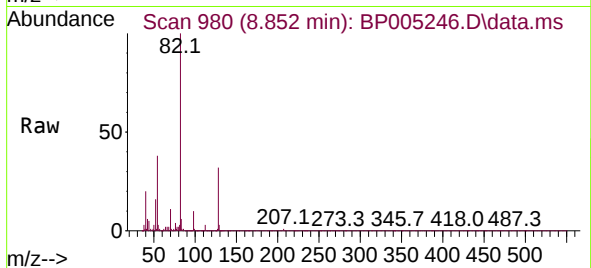
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#39

Acenaphthene-d10

Concen: 20.00 ng

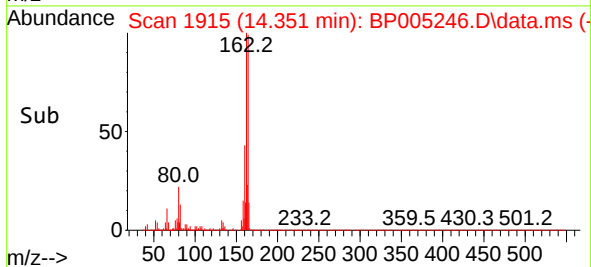
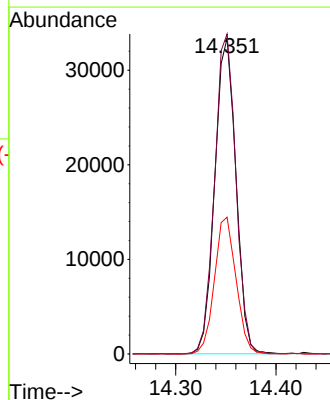
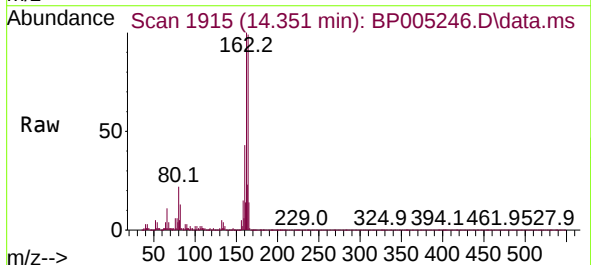
RT: 14.351 min Scan# 1915

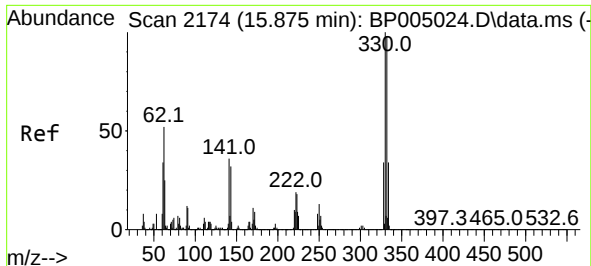
Delta R.T. 0.000 min

Lab File: BP005246.D

Acq: 08 Apr 2021 20:56

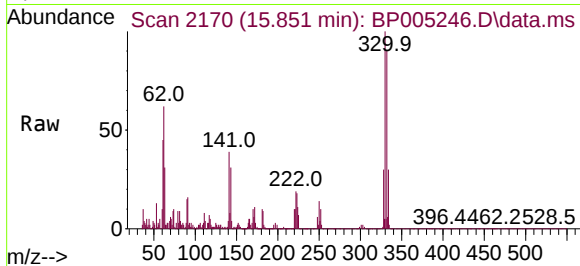
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 48722 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 101.4 | 79.4  | 119.2 |
| 160      | 43.3  | 36.1  | 54.1  |





#42  
2,4,6-Tribromophenol  
Concen: 18.44 ng  
RT: 15.851 min Scan# 2170  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

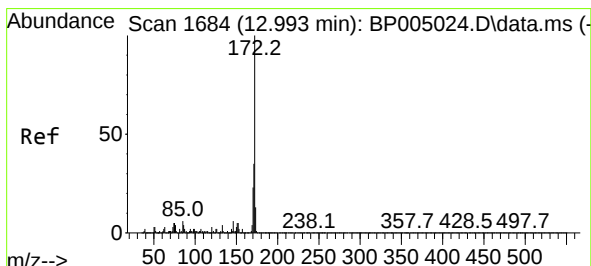
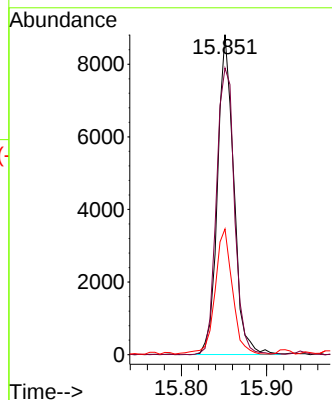
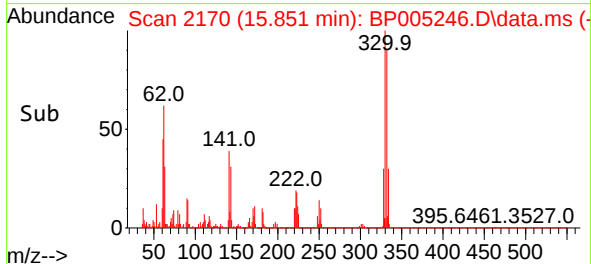
Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721



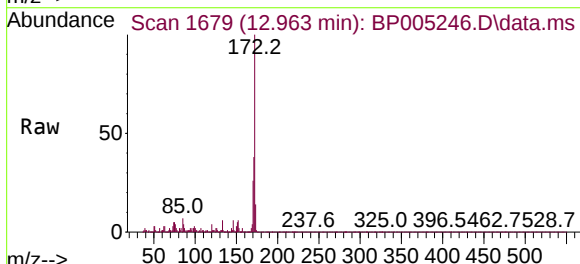
Tgt Ion: 330 Resp: 11709  
Ion Ratio Lower Upper  
330 100  
332 99.7 77.1 115.7  
141 41.6 23.4 35.2#

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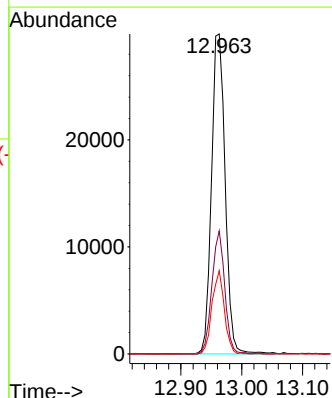
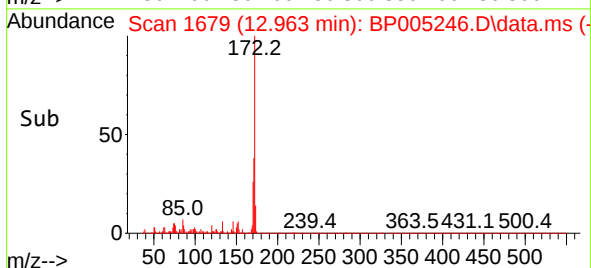
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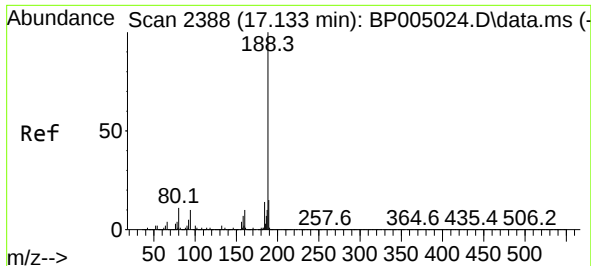


#45  
2-Fluorobiphenyl  
Concen: 12.96 ng  
RT: 12.963 min Scan# 1679  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56



Tgt Ion: 172 Resp: 46676  
Ion Ratio Lower Upper  
172 100  
171 38.5 28.5 42.7  
170 26.0 19.2 28.8





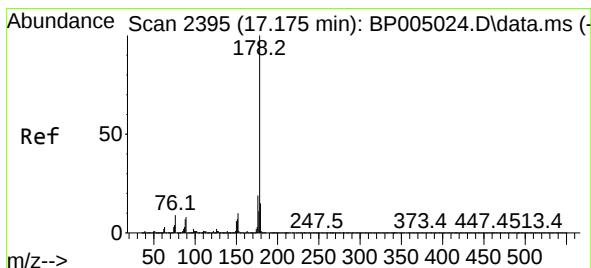
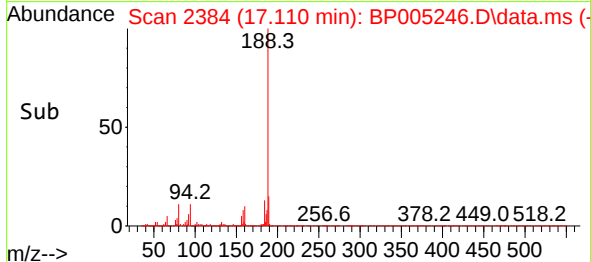
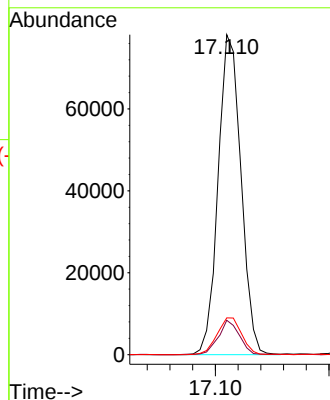
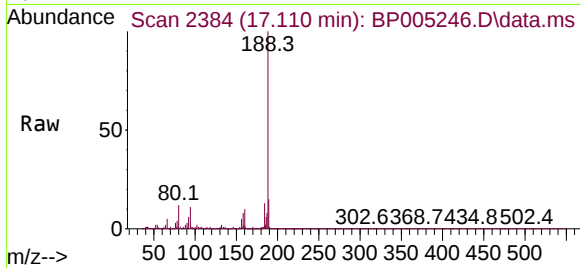
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Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.110 min Scan# 2384  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.8  | 6.2   | 9.2#  |
| 80      | 11.5  | 6.2   | 9.2#  |

Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721

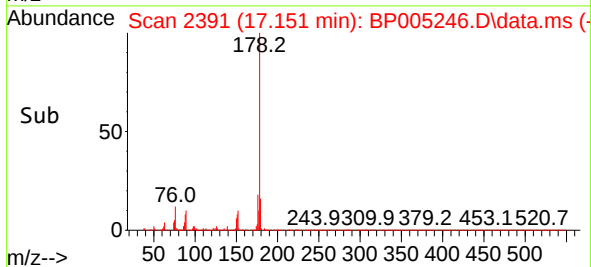
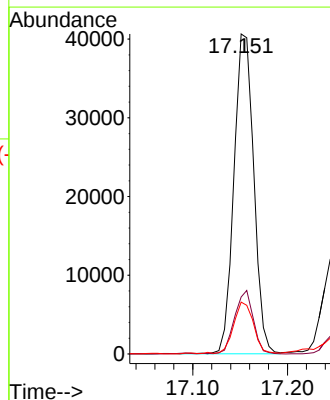
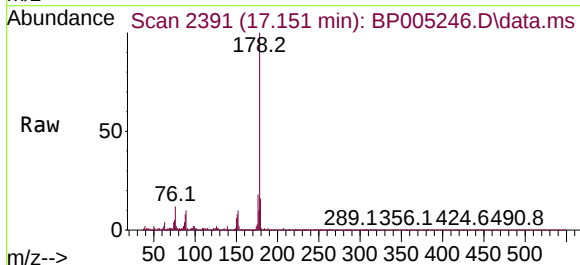
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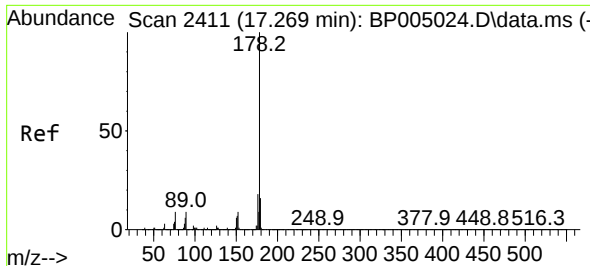
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#71  
Phenanthrene  
Concen: 9.30 ng  
RT: 17.151 min Scan# 2391  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.8  | 15.3  | 22.9  |
| 179     | 16.2  | 12.5  | 18.7  |





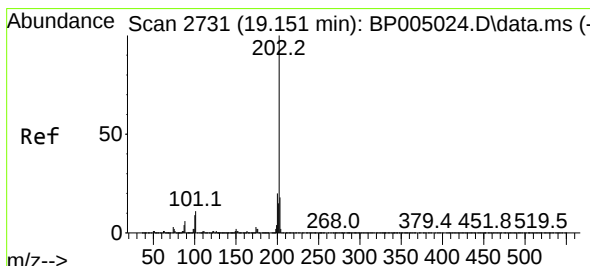
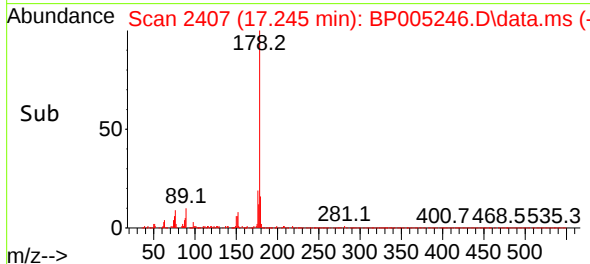
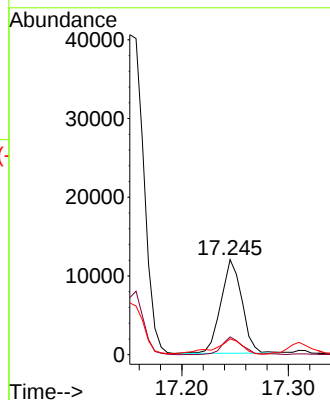
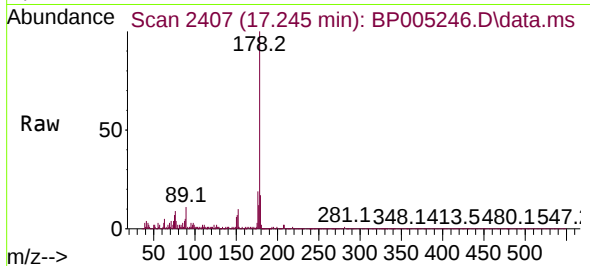
#72  
 Anthracene  
 Concen: 2.65 ng  
 RT: 17.245 min Scan# 2407  
 Delta R.T. -0.006 min  
 Lab File: BP005246.D  
 Acq: 08 Apr 2021 20:56

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 16389     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.8  | 15.0 22.4 |
| 179         | 16.7  | 12.5 18.7 |

Instrument :  
 BNA\_P  
 ClientSampleId :  
 OK-01-040721

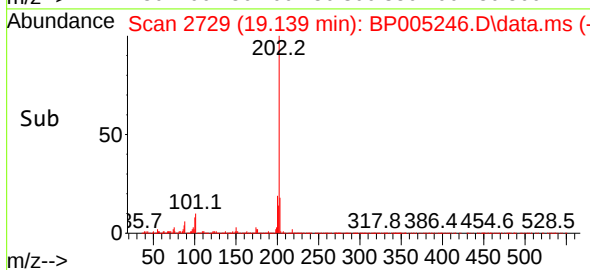
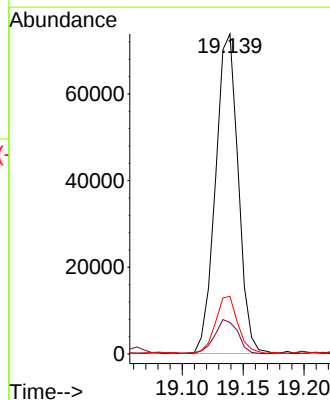
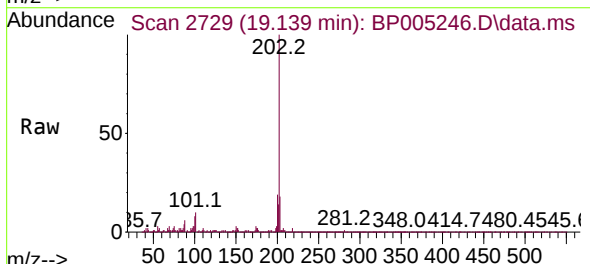
Manual Integrations  
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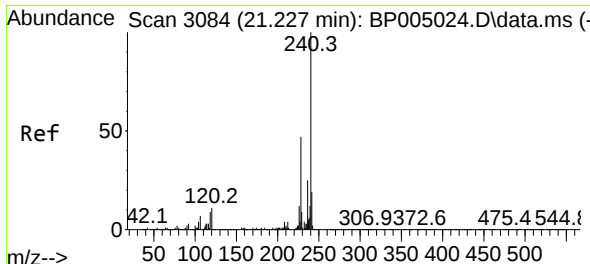
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#75  
 Fluoranthene  
 Concen: 12.81 ng  
 RT: 19.139 min Scan# 2729  
 Delta R.T. 0.006 min  
 Lab File: BP005246.D  
 Acq: 08 Apr 2021 20:56

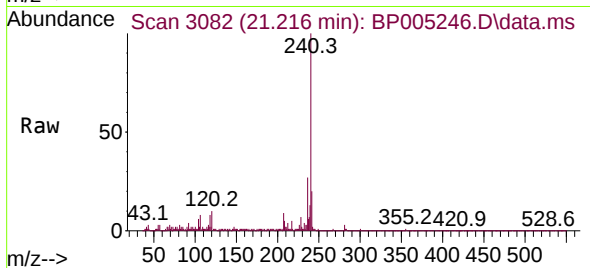
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 95552    |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 9.9   | 0.0 29.4 |
| 203         | 18.0  | 0.0 37.8 |





#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.216 min Scan# 3082  
Delta R.T. 0.000 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

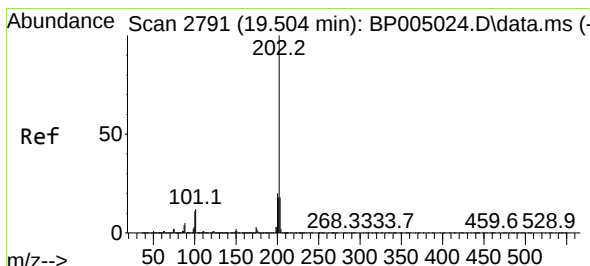
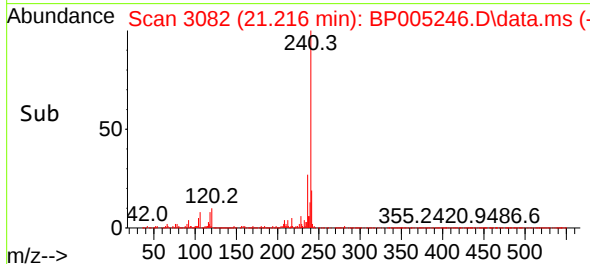
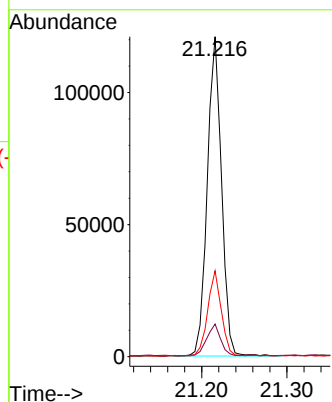
Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721



Tgt Ion:240 Resp: 140671  
Ion Ratio Lower Upper  
240 100  
120 10.2 7.8 11.6  
236 26.8 20.8 31.2

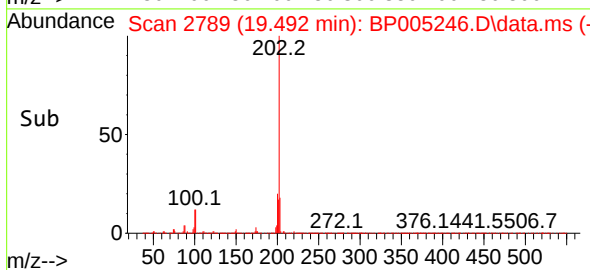
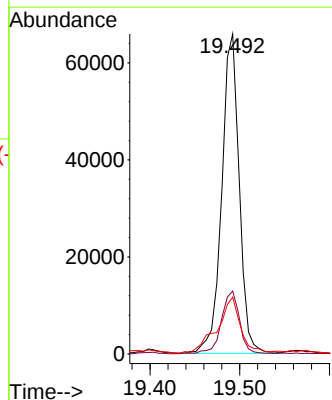
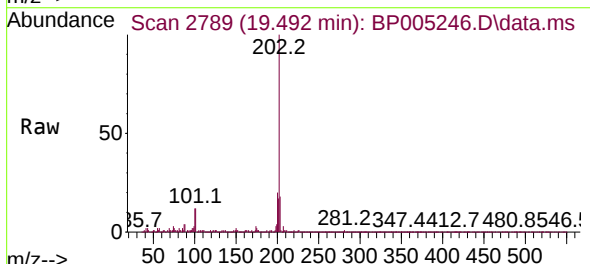
Manual Integrations  
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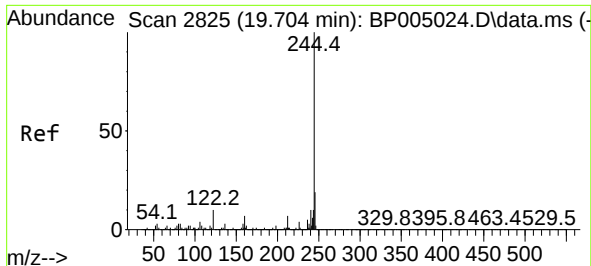
mohammad  
4/9/2021 11:19:03 AM



#78  
Pyrene  
Concen: 9.23 ng  
RT: 19.492 min Scan# 2789  
Delta R.T. 0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

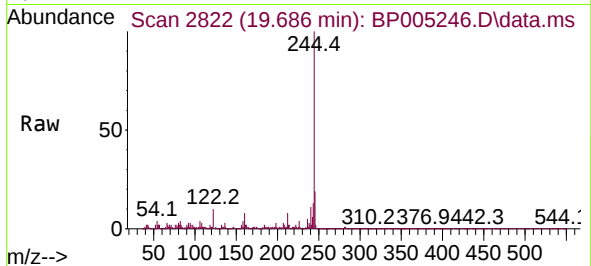
Tgt Ion:202 Resp: 89194  
Ion Ratio Lower Upper  
202 100  
200 19.6 17.1 25.7  
203 17.8 14.2 21.2





#79  
Terphenyl-d14  
Concen: 11.99 ng  
RT: 19.686 min Scan# 2822  
Delta R.T. 0.000 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

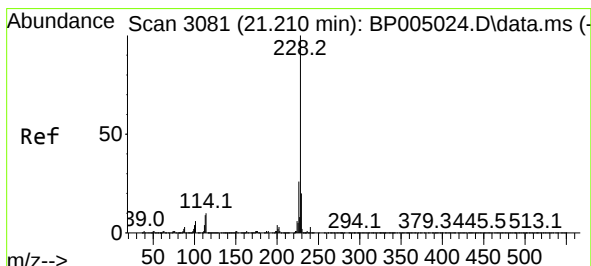
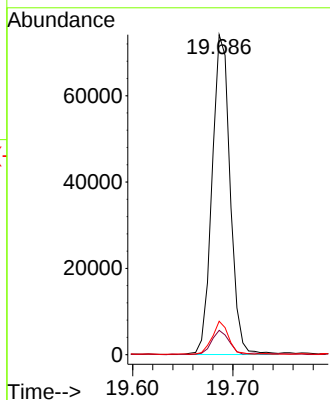
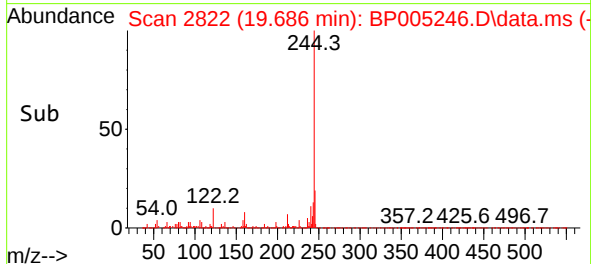
Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721



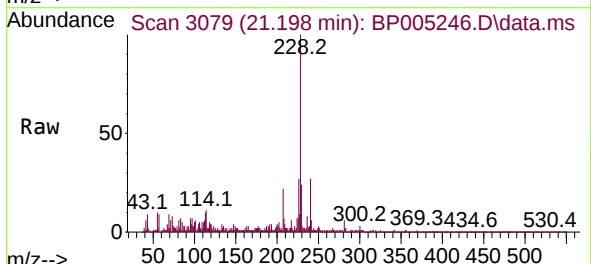
Tgt Ion:244 Resp: 92624  
Ion Ratio Lower Upper  
244 100  
212 7.6 5.8 8.6  
122 10.5 7.8 11.8

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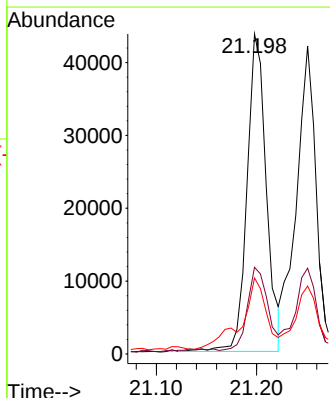
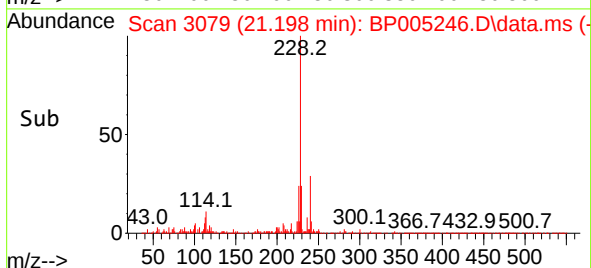
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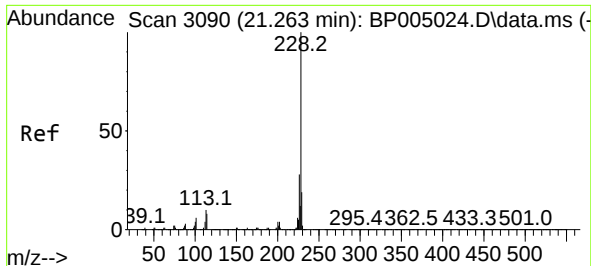


#81  
Benzo(a)anthracene  
Concen: 6.09 ng  
RT: 21.198 min Scan# 3079  
Delta R.T. 0.000 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56



Tgt Ion:228 Resp: 58201  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.1 33.1  
229 23.7 15.9 23.9





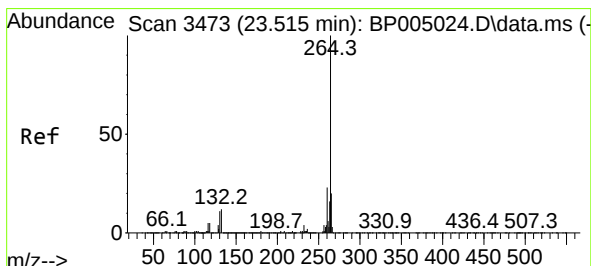
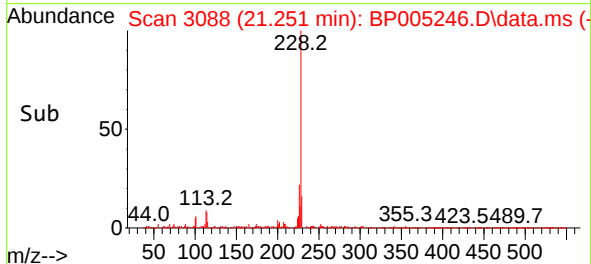
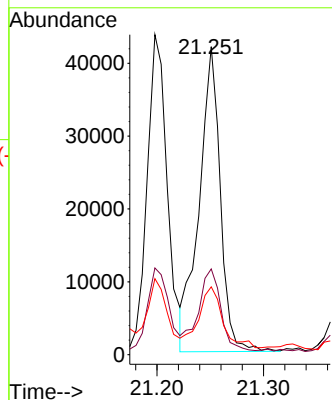
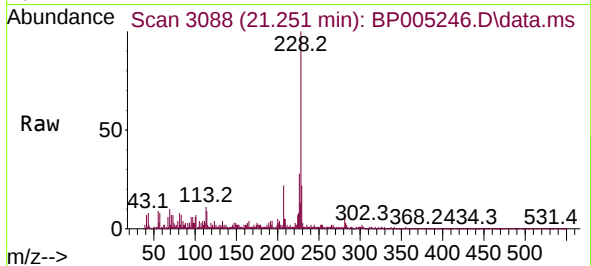
#83  
Chrysene  
Concen: 6.18 ng  
RT: 21.251 min Scan# 3088  
Delta R.T. 0.000 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 58003 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.8  | 24.4  | 36.6  |
| 229       | 22.0  | 15.8  | 23.6  |

Instrument :  
BNA\_P  
ClientSampled :  
OK-01-040721

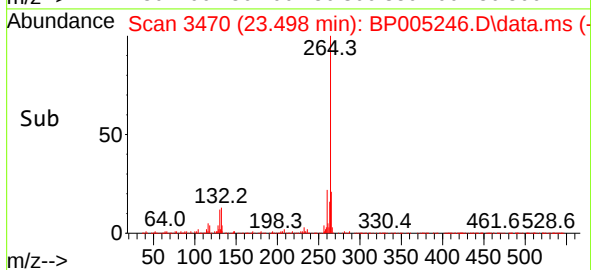
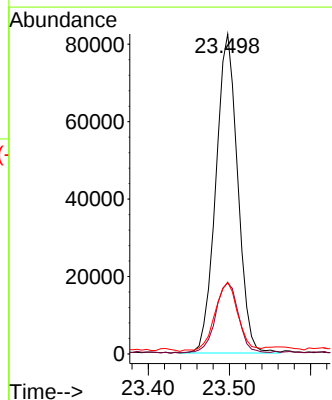
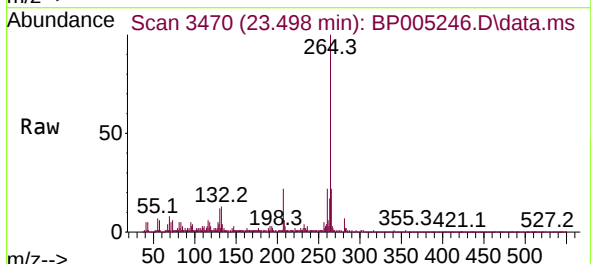
Manual Integrations  
APPROVED

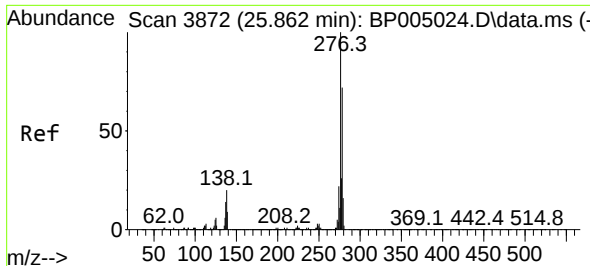
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.498 min Scan# 3470  
Delta R.T. 0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

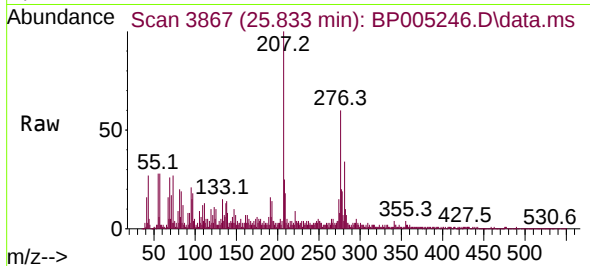
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 153953 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 22.2  | 18.8  | 28.2   |
| 265       | 22.4  | 17.4  | 26.2   |





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.46 ng  
RT: 25.833 min Scan# 3867  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

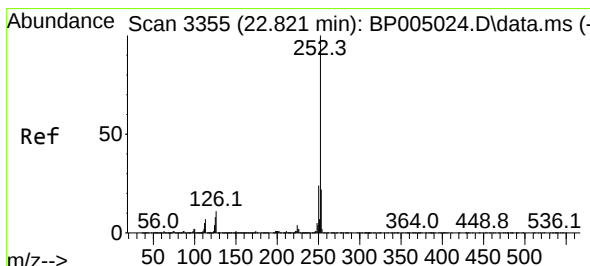
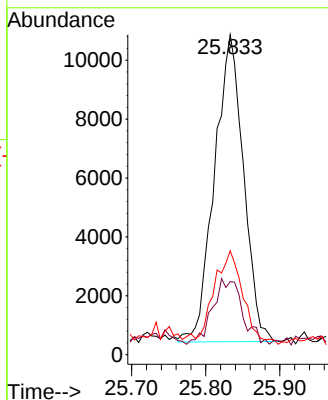
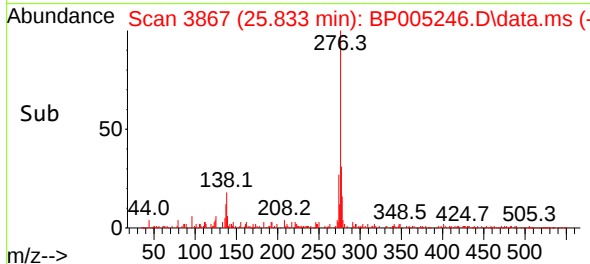
Instrument :  
BNA\_P  
ClientSampled :  
OK-01-040721



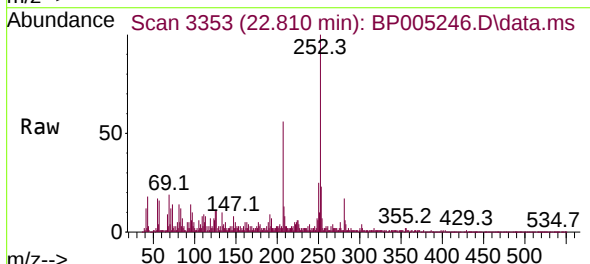
Tgt Ion: 276 Resp: 28366  
Ion Ratio Lower Upper  
276 100  
138 21.8 18.7 28.1  
277 30.2 20.4 30.6

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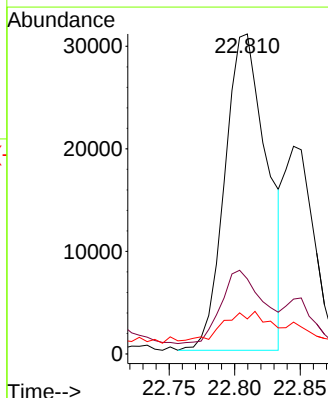
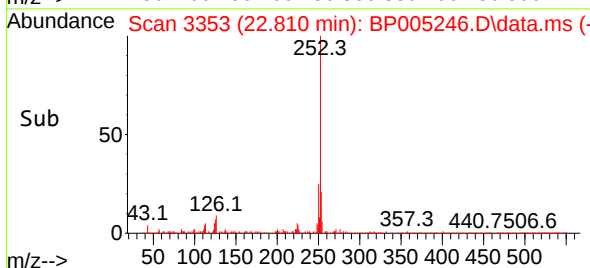
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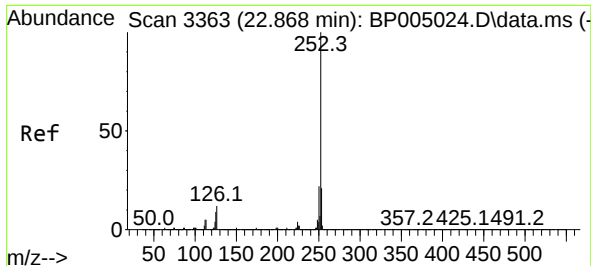


#88  
Benzo(b)fluoranthene  
Concen: 6.30 ng  
RT: 22.810 min Scan# 3353  
Delta R.T. 0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56



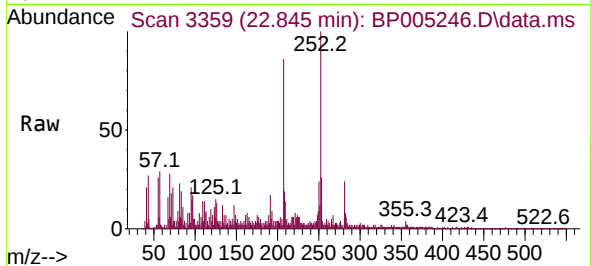
Tgt Ion: 252 Resp: 68903  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.6 26.4  
125 11.0 7.3 10.9#





#89  
Benzo(k)fluoranthene  
Concen: 3.09 ng m  
RT: 22.845 min Scan# 3359  
Delta R.T. -0.006 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

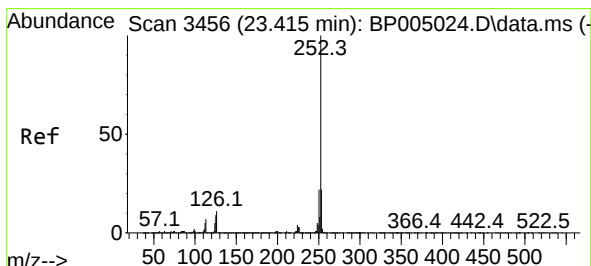
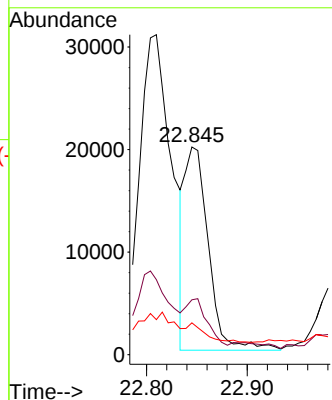
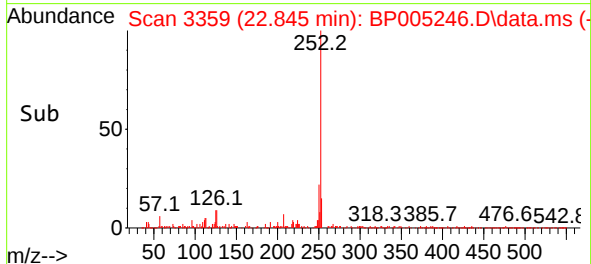
Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721



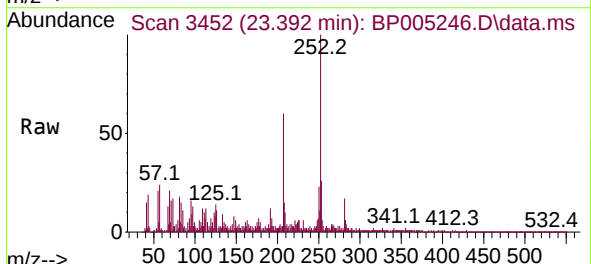
Tgt Ion:252 Resp: 32395  
Ion Ratio Lower Upper  
252 100  
253 26.4 17.8 26.8  
125 15.3 7.4 11.2#

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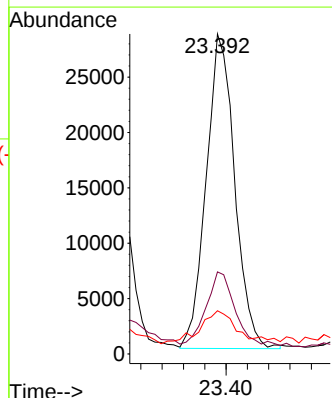
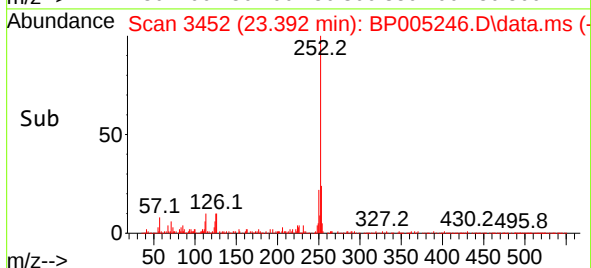
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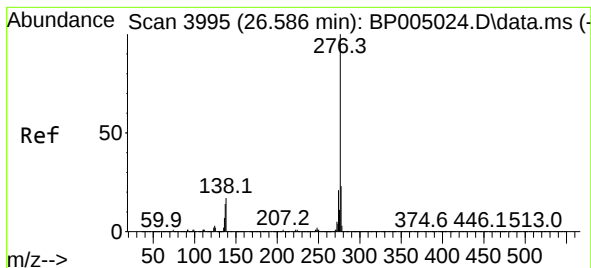


#90  
Benzo(a)pyrene  
Concen: 5.38 ng  
RT: 23.392 min Scan# 3452  
Delta R.T. 0.000 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56

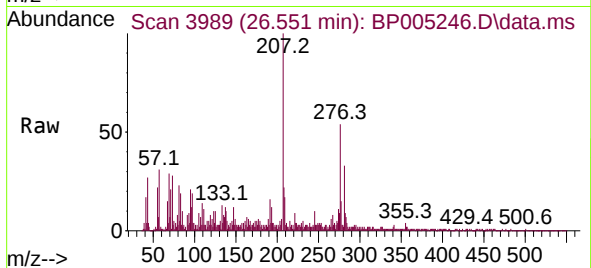


Tgt Ion:252 Resp: 52771  
Ion Ratio Lower Upper  
252 100  
253 25.7 17.4 26.0  
125 13.5 8.2 12.4#

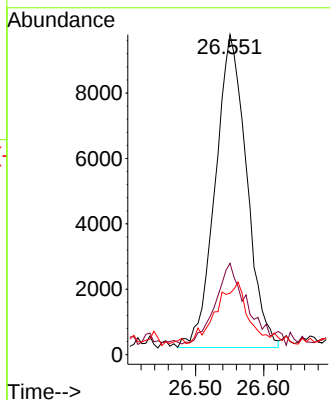
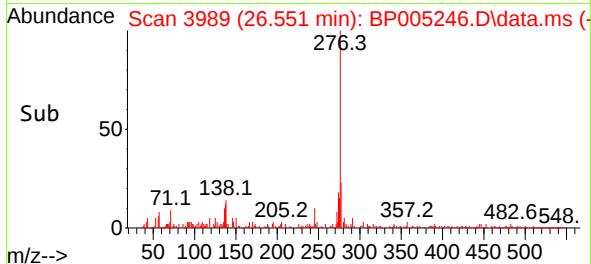




#92  
Benzo(g,h,i)perylene  
Concen: 3.17 ng  
RT: 26.551 min Scan# 3989  
Delta R.T. 0.000 min  
Lab File: BP005246.D  
Acq: 08 Apr 2021 20:56



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 30512 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 28.6  | 19.0  | 28.6  |
| 138       | 19.2  | 16.6  | 24.8  |



Instrument :  
BNA\_P  
ClientSampleId :  
OK-01-040721

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