

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP051421\  
 Data File : BP005557.D  
 Acq On : 14 May 2021 19:49  
 Operator : CG/JU  
 Sample : M2389-07  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 CASINO-AVE-4-6

Manual Integrations  
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mohammad  
 5/17/2021 11:19:40 AM

Quant Time: May 14 22:56:43 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP050521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 14 12:01:17 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.681  | 152  | 14732    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.469 | 136  | 46962    | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.328 | 164  | 39580    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.092 | 188  | 116900   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.198 | 240  | 169586   | 20.00  | ng    | # 0.00   |
| 86) Perylene-d12            | 23.504 | 264  | 135524   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.269  | 112  | 82703    | 107.74 | ng    | 0.00     |
| 7) Phenol-d6                | 6.875  | 99   | 93162    | 97.33  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.846  | 82   | 79425    | 66.57  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.834 | 330  | 100449   | 89.43  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.951 | 172  | 204312   | 58.23  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.669 | 244  | 637938   | 63.88  | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 50) Dimethylphthalate       | 13.798 | 163  | 18006    | 5.27   | ng    | 100      |
| 71) Phenanthrene            | 17.133 | 178  | 63446    | 9.55   | ng    | # 93     |
| 72) Anthracene              | 17.228 | 178  | 14003    | 2.12   | ng    | # 76     |
| 75) Fluoranthene            | 19.116 | 202  | 125110   | 13.69  | ng    | # 47     |
| 78) Pyrene                  | 19.469 | 202  | 102176   | 10.64  | ng    | # 14     |
| 81) Benzo(a)anthracene      | 21.186 | 228  | 64140    | 5.84   | ng    | # 79     |
| 83) Chrysene                | 21.233 | 228  | 60321    | 5.66   | ng    | # 84     |
| 87) Indeno(1,2,3-cd)pyrene  | 25.886 | 276  | 28547    | 2.50   | ng    | # 90     |
| 88) Benzo(b)fluoranthene    | 22.804 | 252  | 59851    | 6.63   | ng    | # 95     |
| 89) Benzo(k)fluoranthene    | 22.851 | 252  | 24294m   | 2.75   | ng    |          |
| 90) Benzo(a)pyrene          | 23.404 | 252  | 40556    | 4.90   | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 26.627 | 276  | 26379    | 2.83   | ng    | # 95     |
| -----                       |        |      |          |        |       |          |

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

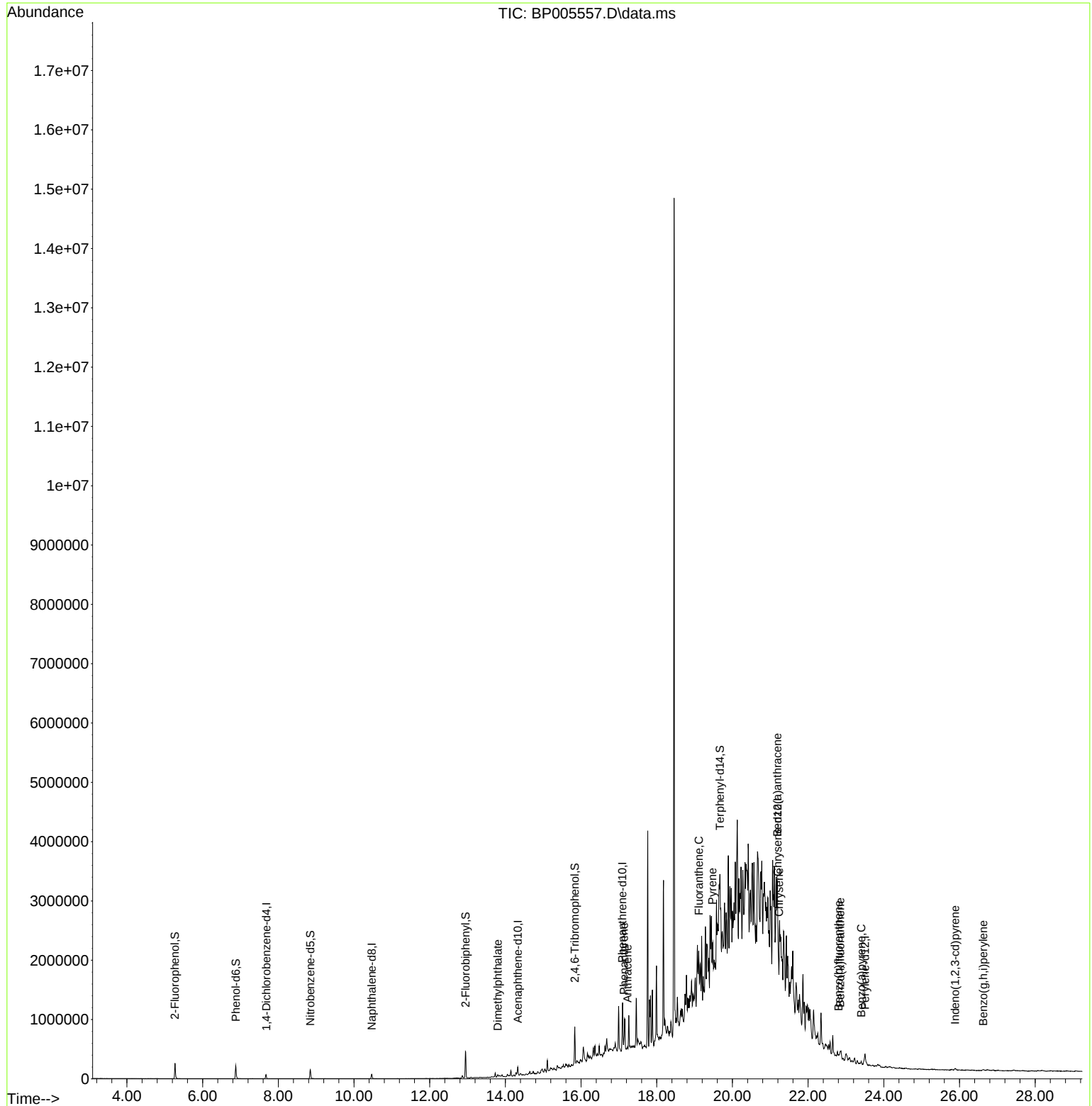
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP051421\  
Data File : BP005557.D  
Acq On : 14 May 2021 19:49  
Operator : CG/JU  
Sample : M2389-07  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
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Quant Time: May 14 22:56:43 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP050521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 14 12:01:17 2021  
Response via : Initial Calibration





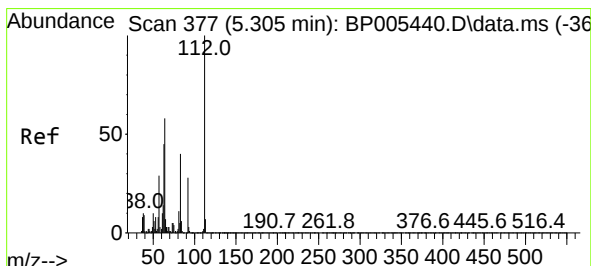
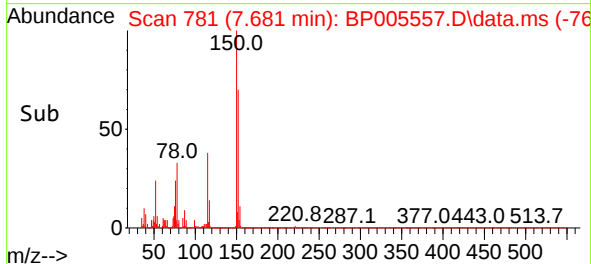
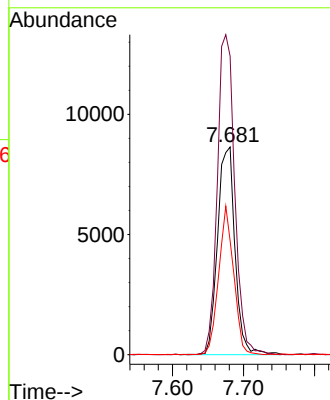
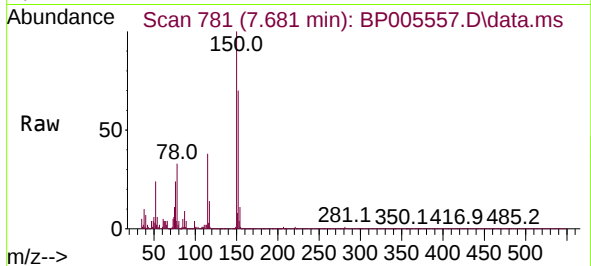
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.681 min Scan# 781  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

Tgt Ion:152 Resp: 14732  
Ion Ratio Lower Upper  
152 100  
150 143.8 119.8 179.8  
115 54.8 49.0 73.4

Instrument :  
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ClientSampleId :  
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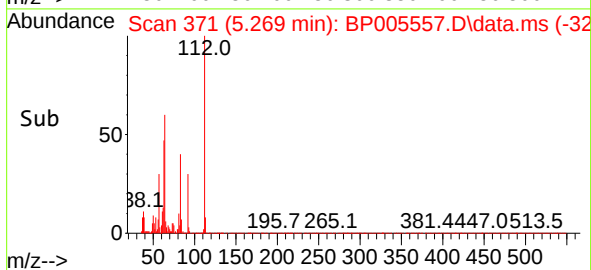
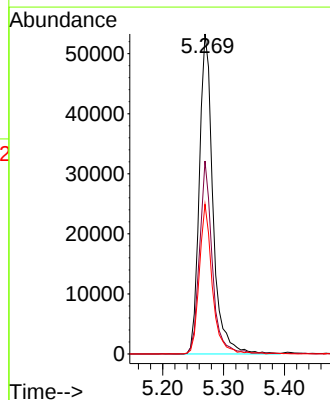
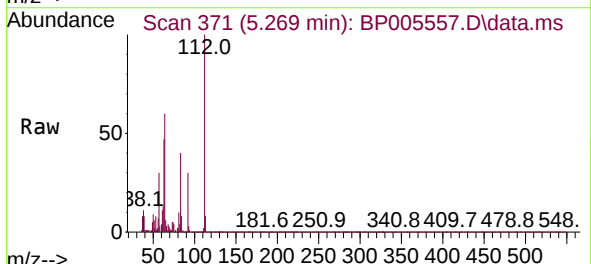
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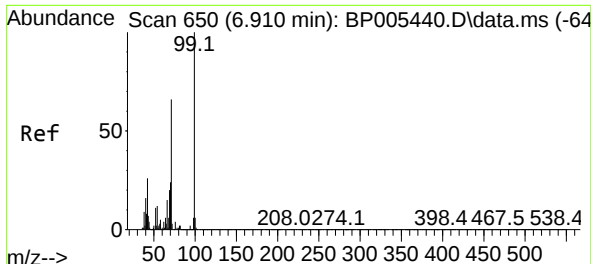
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#5  
2-Fluorophenol  
Concen: 107.74 ng  
RT: 5.269 min Scan# 371  
Delta R.T. -0.000 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

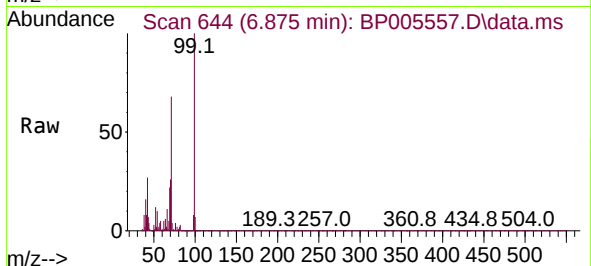
Tgt Ion:112 Resp: 82703  
Ion Ratio Lower Upper  
112 100  
64 60.3 33.6 50.4#  
63 46.8 18.6 27.8#





#7  
Phenol-d6  
Concen: 97.33 ng  
RT: 6.875 min Scan# 644  
Delta R.T. -0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

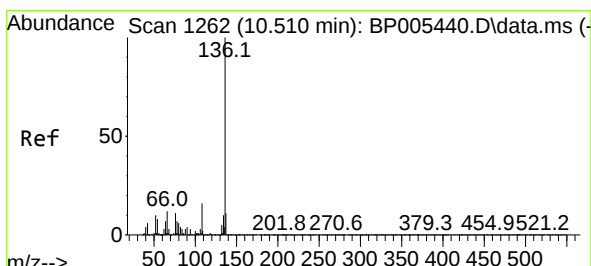
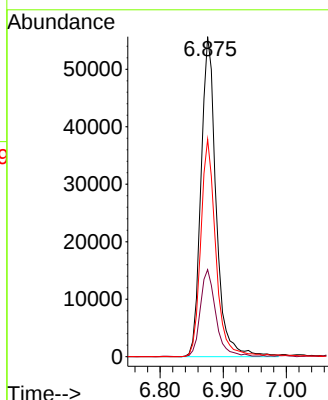
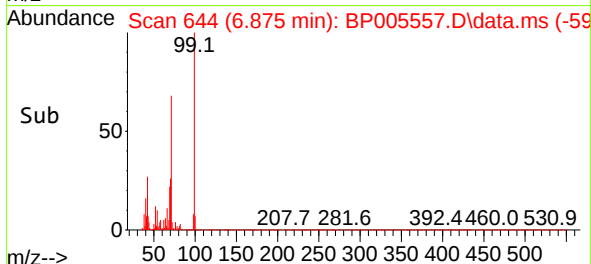
Instrument :  
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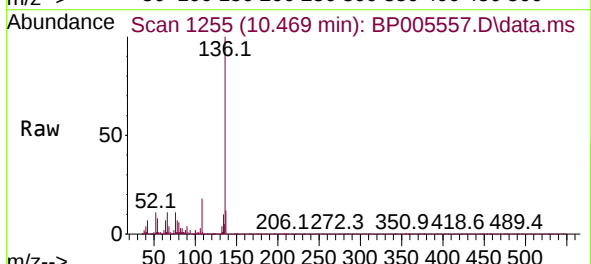
Tgt Ion: 99 Resp: 93162  
Ion Ratio Lower Upper  
99 100  
42 27.2 12.9 19.3#  
71 68.0 26.7 40.1#

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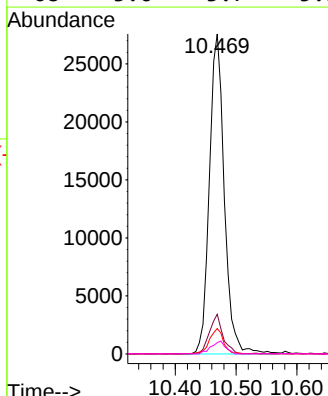
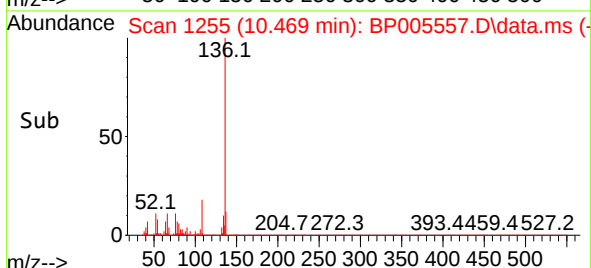
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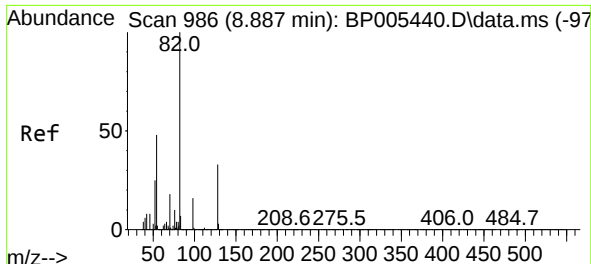


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.469 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49



Tgt Ion: 136 Resp: 46962  
Ion Ratio Lower Upper  
136 100  
137 12.4 8.9 13.3  
54 8.0 5.0 7.4#  
68 3.6 3.7 5.5#





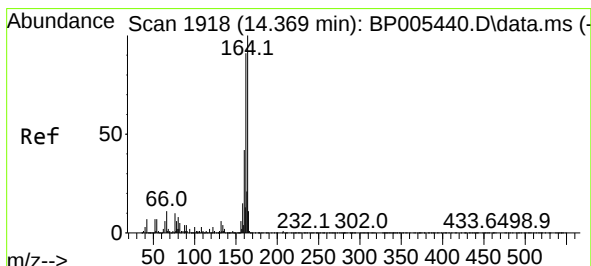
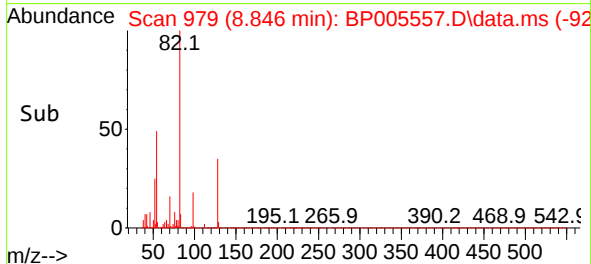
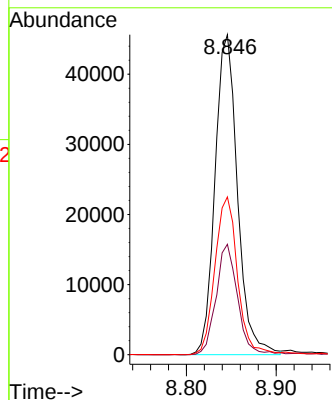
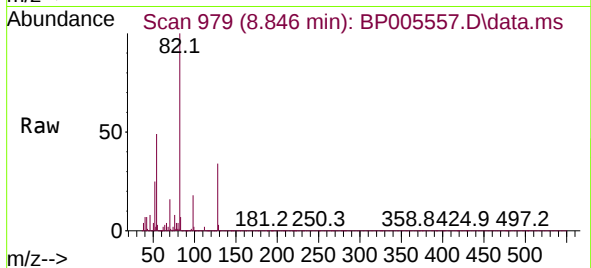
#23  
Nitrobenzene-d5  
Concen: 66.57 ng  
RT: 8.846 min Scan# 979  
Delta R.T. -0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 79425 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 34.5  | 30.5  | 45.7  |
| 54        | 49.3  | 33.9  | 50.9  |

Instrument :  
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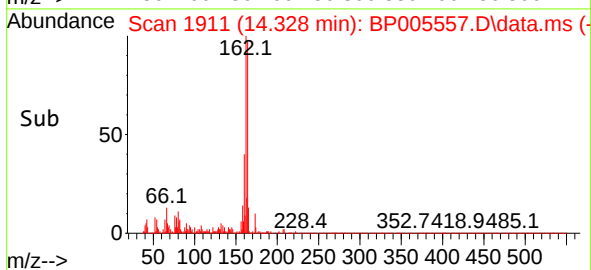
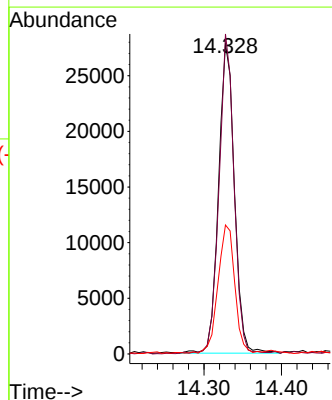
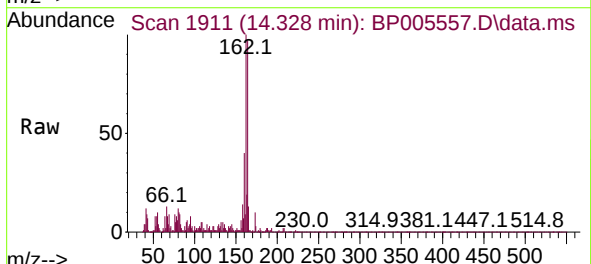
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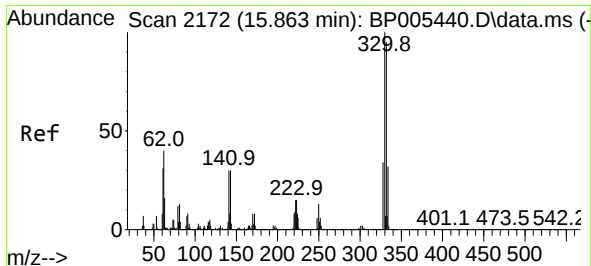
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.328 min Scan# 1911  
Delta R.T. -0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

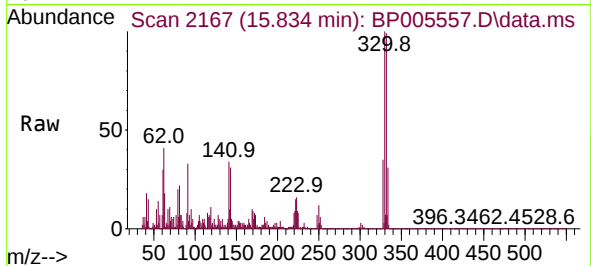
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 39580 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 103.2 | 73.5  | 110.3 |
| 160       | 41.6  | 40.6  | 61.0  |





#42  
2,4,6-Tribromophenol  
Concen: 89.43 ng  
RT: 15.834 min Scan# 2167  
Delta R.T. -0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

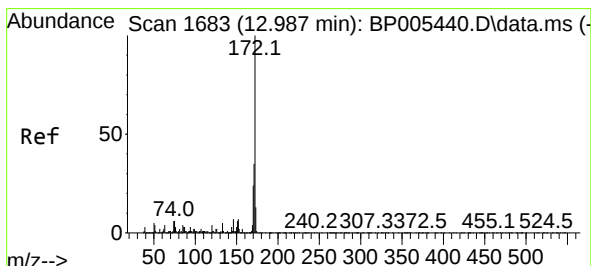
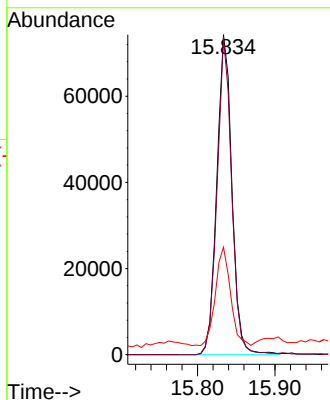
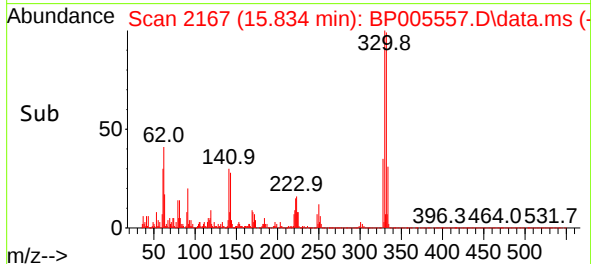
Instrument :  
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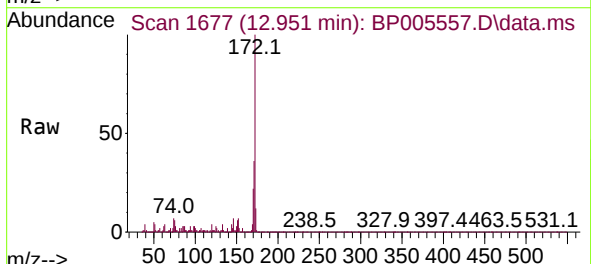
Tgt Ion:330 Resp: 100449  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.3 114.5  
141 30.5 22.8 34.2

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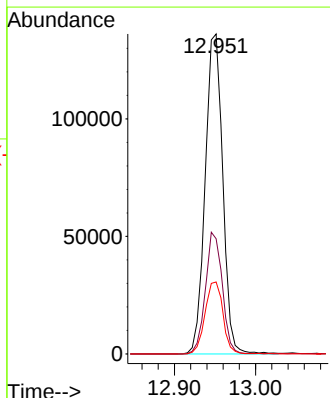
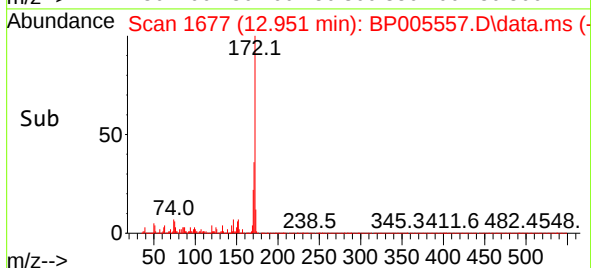
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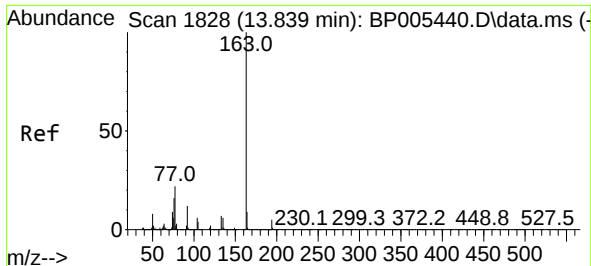


#45  
2-Fluorobiphenyl  
Concen: 58.23 ng  
RT: 12.951 min Scan# 1677  
Delta R.T. -0.000 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49



Tgt Ion:172 Resp: 204312  
Ion Ratio Lower Upper  
172 100  
171 36.0 28.1 42.1  
170 22.5 19.6 29.4





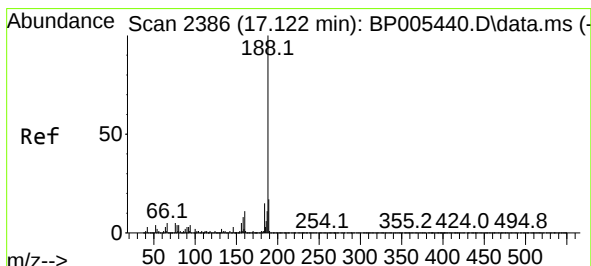
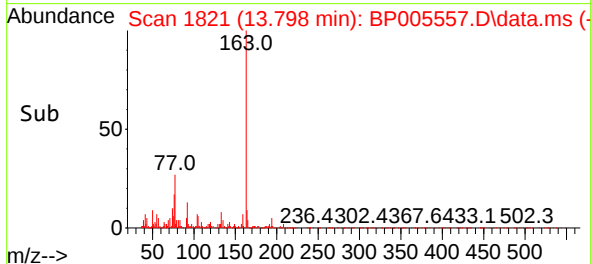
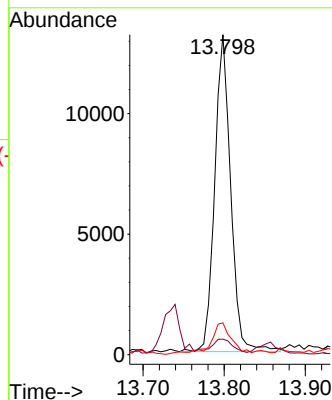
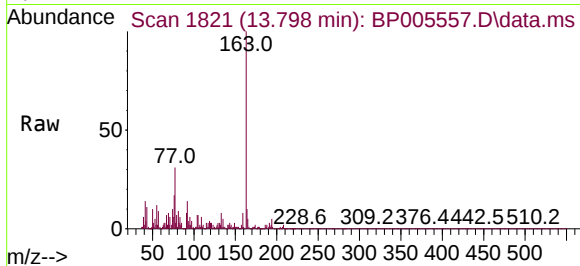
#50  
Dimethylphthalate  
Concen: 5.27 ng  
RT: 13.798 min Scan# 1821  
Delta R.T. -0.012 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.8   | 3.9   | 5.9   |
| 164     | 10.0  | 8.1   | 12.1  |

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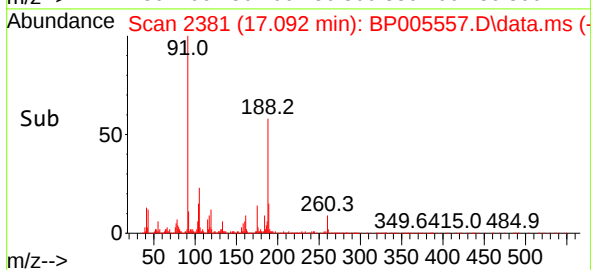
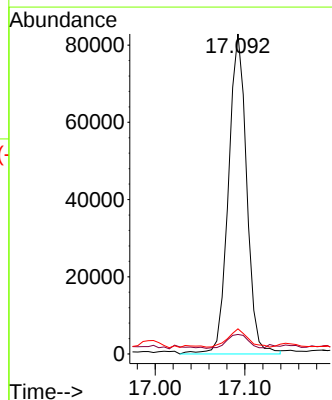
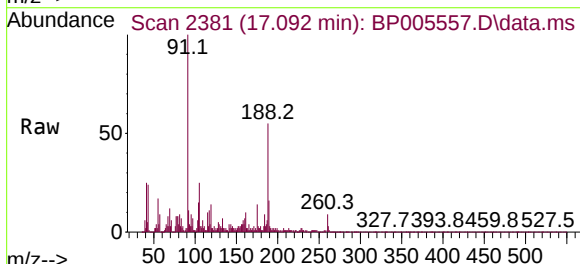
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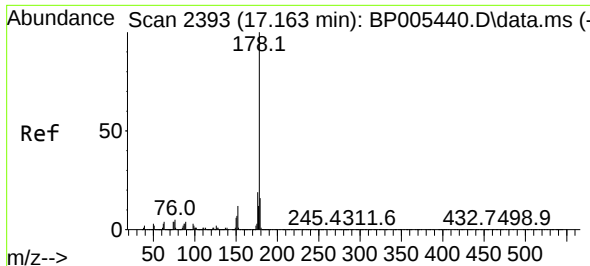
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#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.092 min Scan# 2381  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.1   | 5.0   | 7.6   |
| 80      | 7.9   | 5.9   | 8.9   |





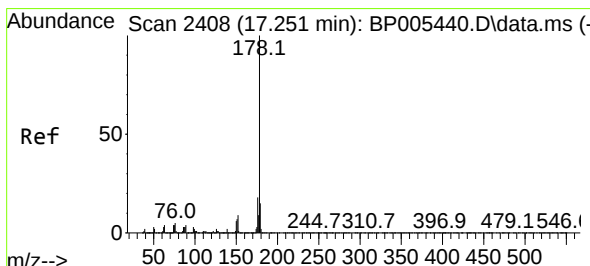
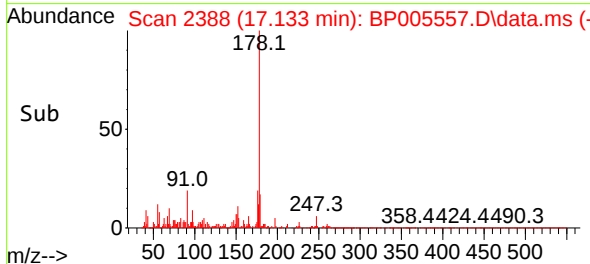
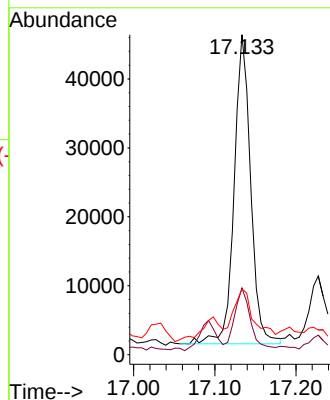
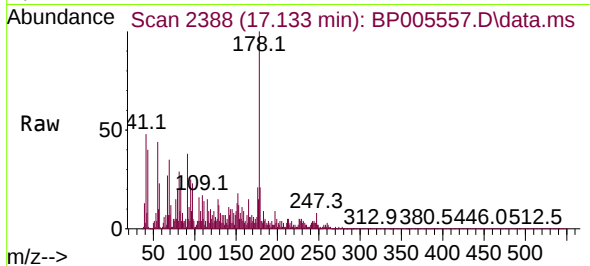
#71  
Phenanthrene  
Concen: 9.55 ng  
RT: 17.133 min Scan# 2388  
Delta R.T. -0.000 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

Tgt Ion:178 Resp: 63446  
Ion Ratio Lower Upper  
178 100  
176 20.9 15.4 23.2  
179 20.5 12.3 18.5#

Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6

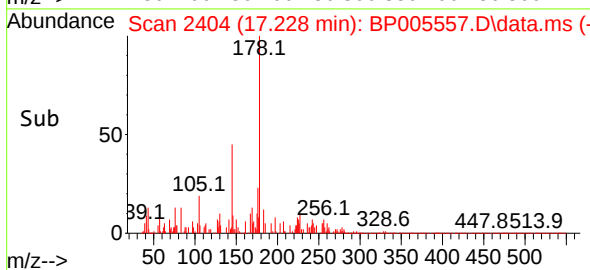
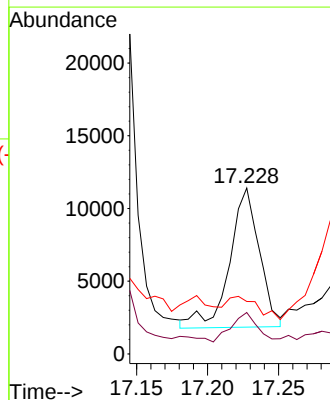
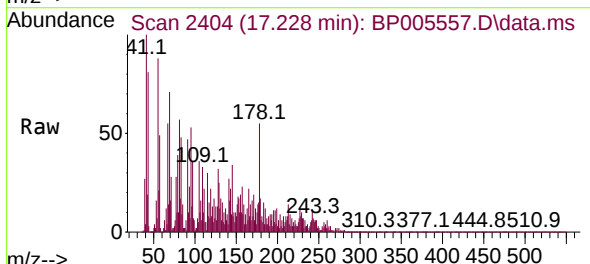
Manual Integrations  
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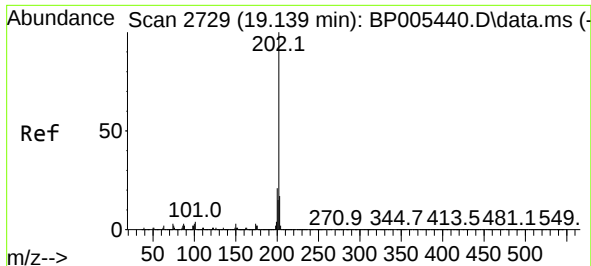
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#72  
Anthracene  
Concen: 2.12 ng  
RT: 17.228 min Scan# 2404  
Delta R.T. -0.000 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

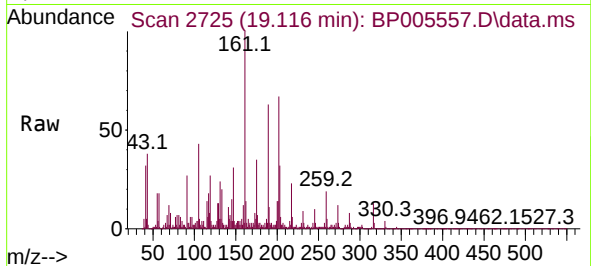
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Ion Ratio Lower Upper  
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176 24.9 15.2 22.8#  
179 31.6 12.6 19.0#





#75  
Fluoranthene  
Concen: 13.69 ng  
RT: 19.116 min Scan# 2725  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

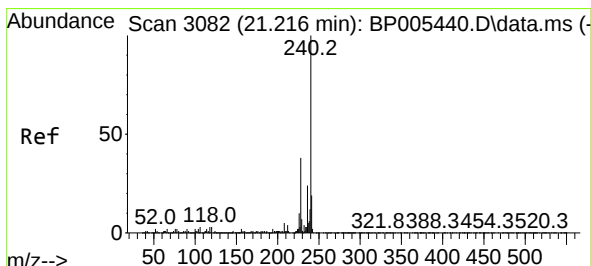
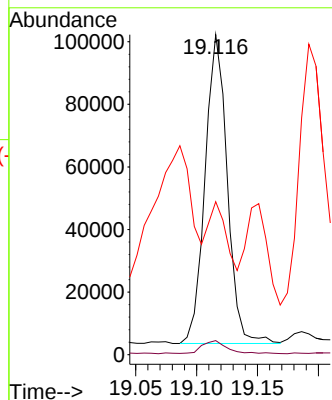
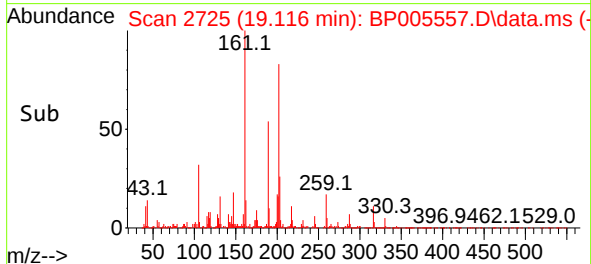
Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6



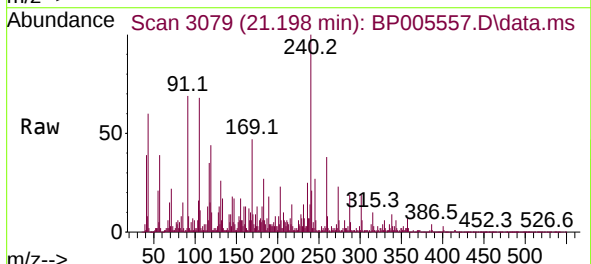
Tgt Ion:202 Resp: 125110  
Ion Ratio Lower Upper  
202 100  
101 4.4 0.0 26.1  
203 47.8 0.0 37.2#

Manual Integrations  
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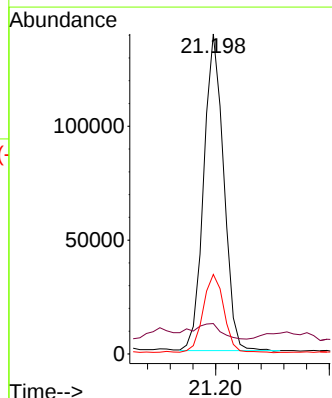
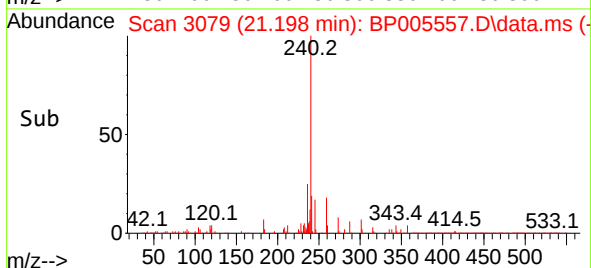
mohammad  
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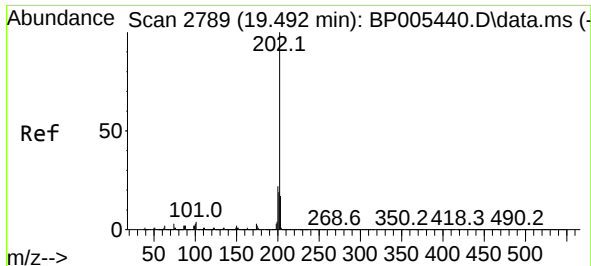


#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.198 min Scan# 3079  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49



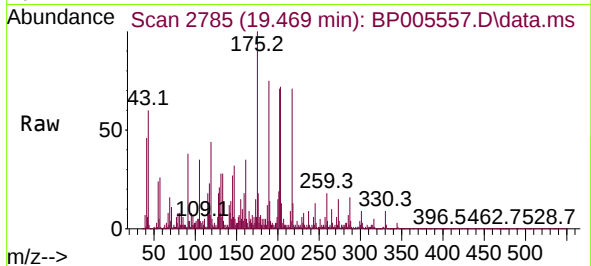
Tgt Ion:240 Resp: 169586  
Ion Ratio Lower Upper  
240 100  
120 9.5 4.2 6.2#  
236 24.8 20.2 30.2





#78  
Pyrene  
Concen: 10.64 ng  
RT: 19.469 min Scan# 2785  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

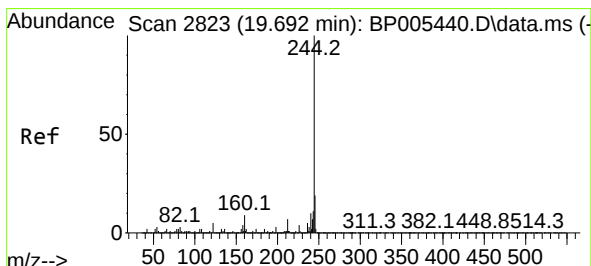
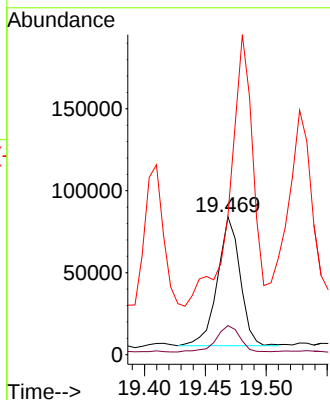
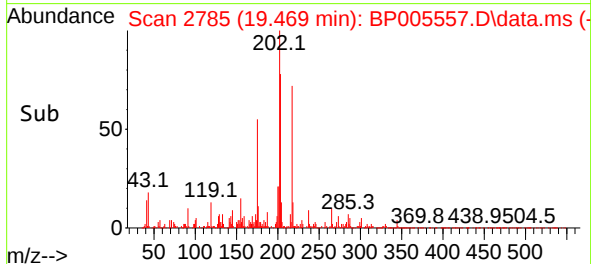
Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6



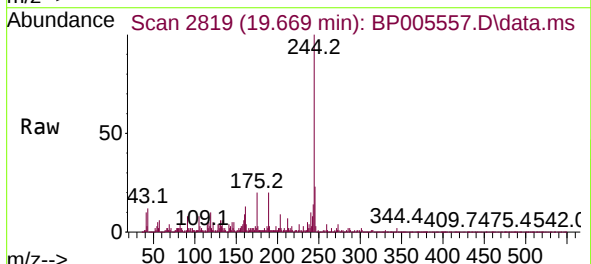
Tgt Ion:202 Resp: 102176  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.9 25.3  
203 100.8 13.8 20.6#

Manual Integrations  
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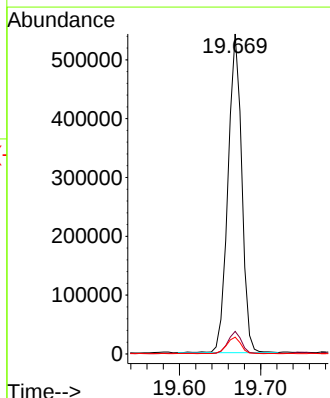
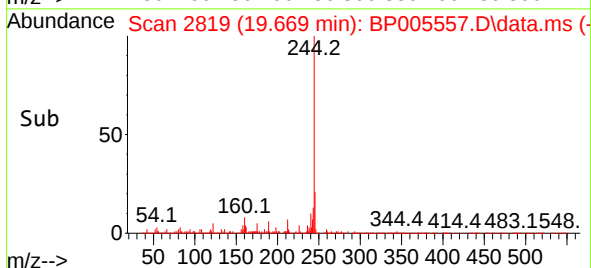
mohammad  
5/17/2021 11:19:40 AM

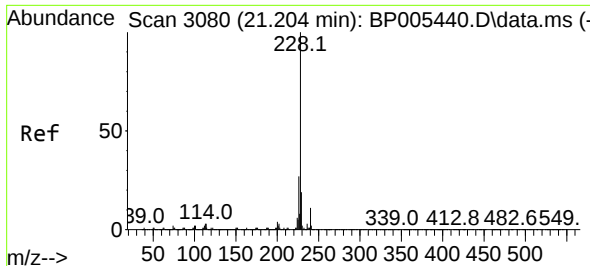


#79  
Terphenyl-d14  
Concen: 63.88 ng  
RT: 19.669 min Scan# 2819  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49



Tgt Ion:244 Resp: 637938  
Ion Ratio Lower Upper  
244 100  
212 7.0 5.8 8.6  
122 5.2 5.2 7.8





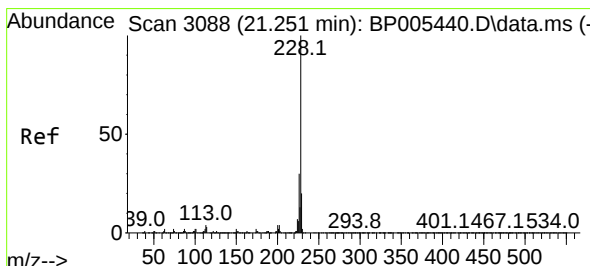
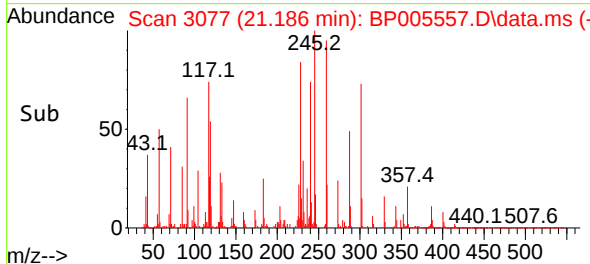
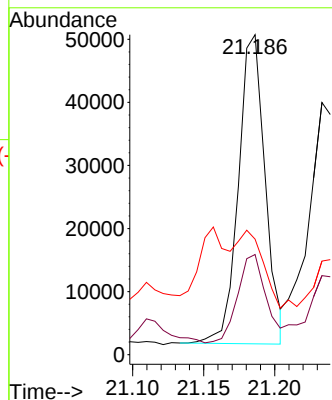
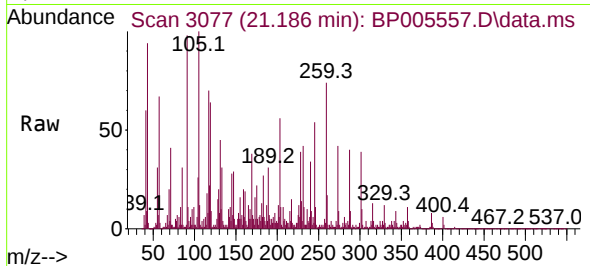
#81  
Benzo(a)anthracene  
Concen: 5.84 ng  
RT: 21.186 min Scan# 3077  
Delta R.T. 0.012 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6

Tgt Ion:228 Resp: 64140  
Ion Ratio Lower Upper  
228 100  
226 31.3 21.2 31.8  
229 36.1 15.6 23.4#

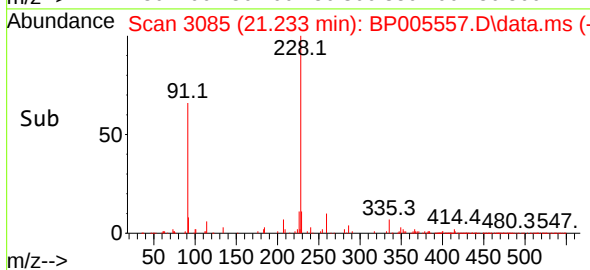
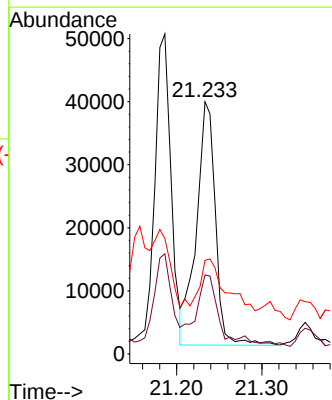
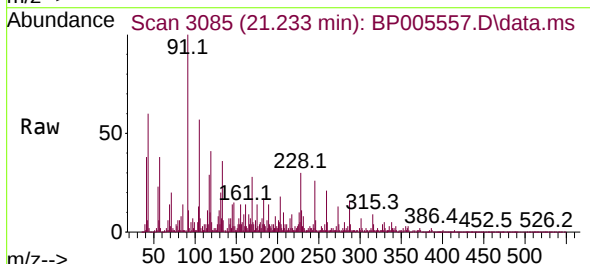
Manual Integrations  
APPROVED

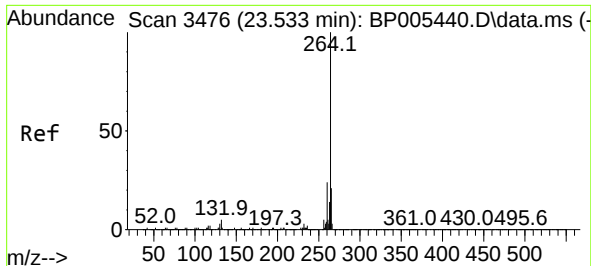
mohammad  
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#83  
Chrysene  
Concen: 5.66 ng  
RT: 21.233 min Scan# 3085  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

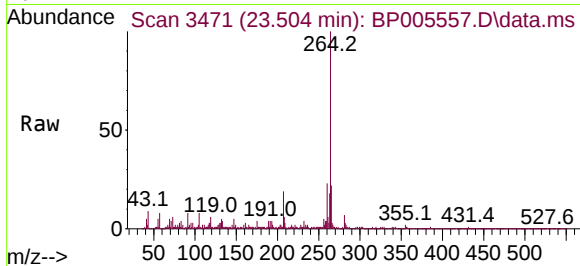
Tgt Ion:228 Resp: 60321  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.8 37.2  
229 37.1 15.4 23.0#





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.504 min Scan# 3471  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

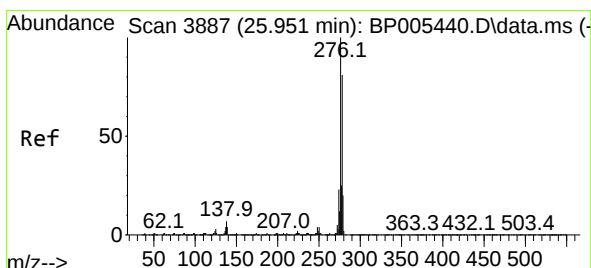
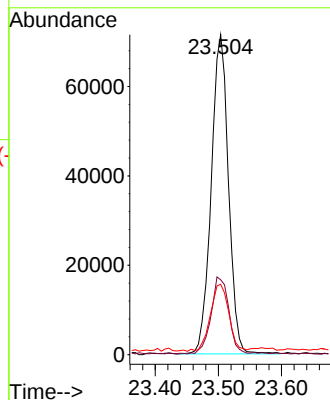
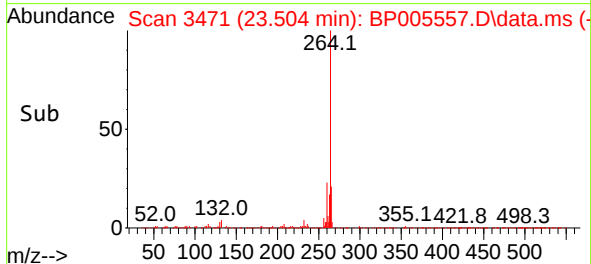
Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6



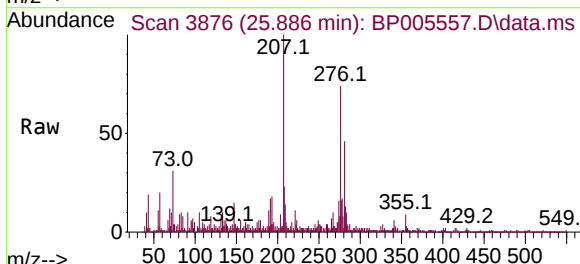
Tgt Ion:264 Resp: 135524  
Ion Ratio Lower Upper  
264 100  
260 23.4 20.6 30.8  
265 22.0 19.0 28.6

Manual Integrations  
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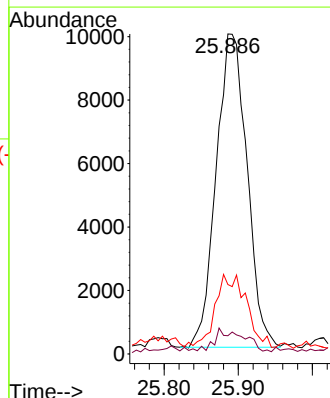
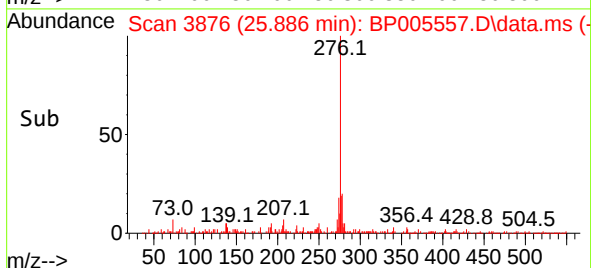
mohammad  
5/17/2021 11:19:40 AM

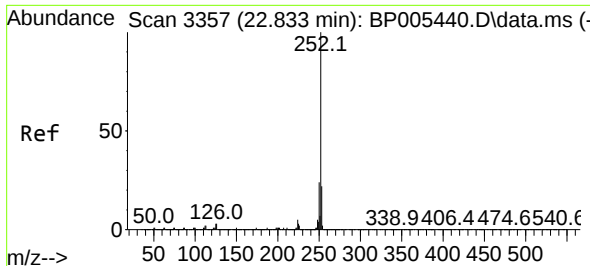


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.50 ng  
RT: 25.886 min Scan# 3876  
Delta R.T. -0.018 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49



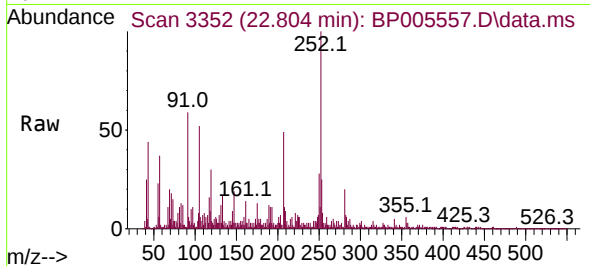
Tgt Ion:276 Resp: 28547  
Ion Ratio Lower Upper  
276 100  
138 2.8 8.4 12.6#  
277 23.0 20.6 31.0





#88  
Benzo(b)fluoranthene  
Concen: 6.63 ng  
RT: 22.804 min Scan# 3352  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

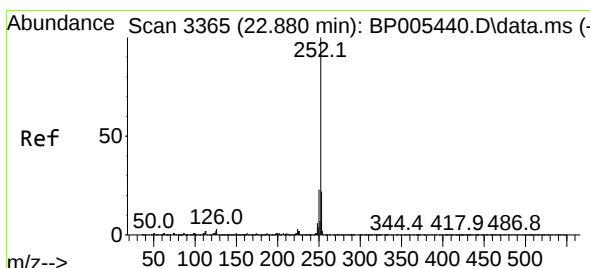
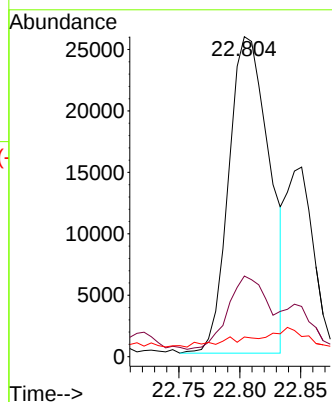
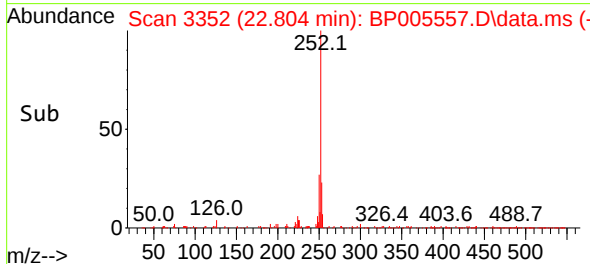
Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6



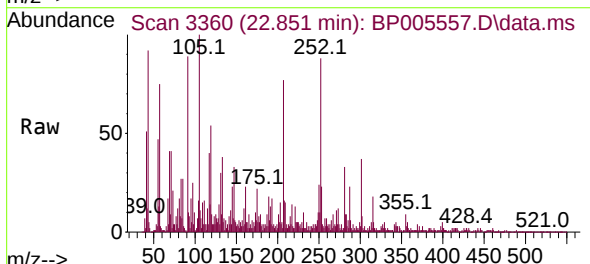
Tgt Ion:252 Resp: 59851  
Ion Ratio Lower Upper  
252 100  
253 25.2 18.2 27.2  
125 6.1 3.4 5.0#

Manual Integrations  
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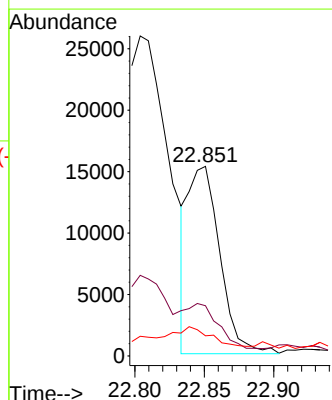
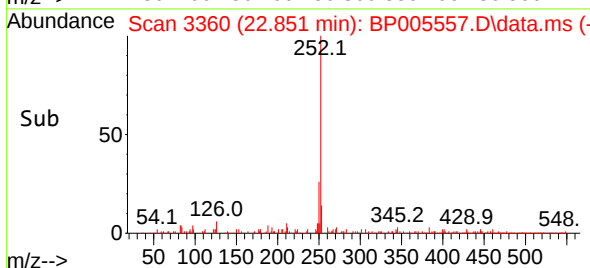
mohammad  
5/17/2021 11:19:40 AM

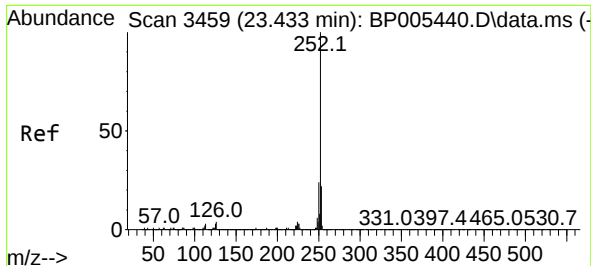


#89  
Benzo(k)fluoranthene  
Concen: 2.75 ng m  
RT: 22.851 min Scan# 3360  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49



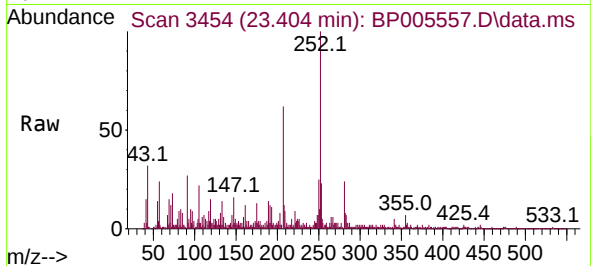
Tgt Ion:252 Resp: 24294  
Ion Ratio Lower Upper  
252 100  
253 26.5 17.2 25.8#  
125 10.6 3.8 5.6#





#90  
Benzo(a)pyrene  
Concen: 4.90 ng  
RT: 23.404 min Scan# 3454  
Delta R.T. 0.006 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

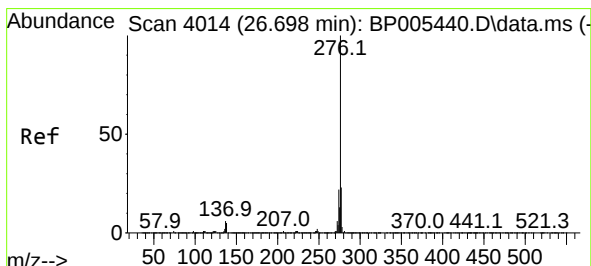
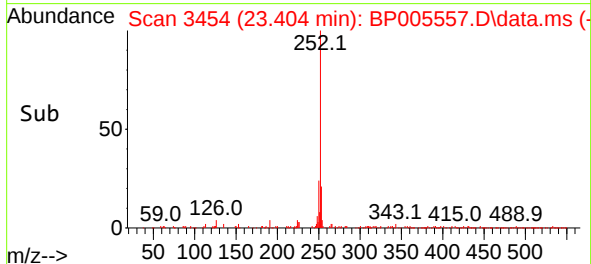
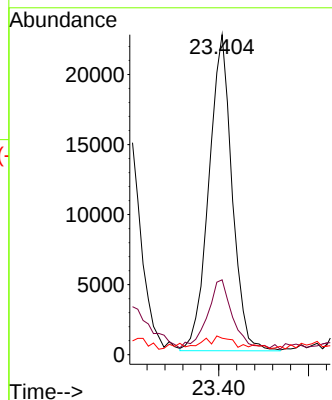
Instrument :  
BNA\_P  
ClientSampleId :  
CASINO-AVE-4-6



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.1  | 25.7  |
| 125     | 5.2   | 3.8   | 5.6   |

Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 2.83 ng  
RT: 26.627 min Scan# 4002  
Delta R.T. -0.012 min  
Lab File: BP005557.D  
Acq: 14 May 2021 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 19.8  | 29.8  |
| 138     | 4.5   | 7.7   | 11.5  |

