

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP062921\  
 Data File : BP006106.D  
 Acq On : 29 Jun 2021 23:44  
 Operator : CG/JU  
 Sample : M2891-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TR-04-062821

Manual Integrations  
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mohammad  
 6/30/2021 2:14:12 PM

Quant Time: Jun 30 01:15:21 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 28 11:34:30 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.904  | 152  | 164164   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.704 | 136  | 602615   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.534 | 164  | 338894   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.280 | 188  | 583099   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.357 | 240  | 552014   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 23.762 | 264  | 639271   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.481  | 112  | 351987   | 34.405 | ng    | 0.00     |
| 7) Phenol-d6                | 7.087  | 99   | 442183   | 33.346 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.069  | 82   | 274582   | 22.339 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.028 | 330  | 181575   | 31.222 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.157 | 172  | 631313   | 24.462 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.827 | 244  | 715002   | 24.254 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 9) Benzaldehyde             | 7.052  | 77   | 13100    | 2.317  | ng    | 95       |
| 32) Benzoic acid            | 10.069 | 122  | 4262m    | 6.864  | ng    |          |
| 49) Acenaphthylene          | 14.257 | 152  | 88419    | 2.583  | ng    | # 96     |
| 52) Acenaphthene            | 14.598 | 154  | 52393    | 2.520  | ng    | 100      |
| 58) Fluorene                | 15.581 | 166  | 112909   | 4.239  | ng    | 98       |
| 71) Phenanthrene            | 17.322 | 178  | 484437   | 13.834 | ng    | 100      |
| 72) Anthracene              | 17.416 | 178  | 160385   | 4.654  | ng    | 98       |
| 75) Fluoranthene            | 19.286 | 202  | 464802   | 10.930 | ng    | 98       |
| 78) Pyrene                  | 19.639 | 202  | 490351   | 12.724 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.345 | 228  | 231033   | 5.798  | ng    | # 92     |
| 83) Chrysene                | 21.392 | 228  | 237104   | 6.143  | ng    | # 94     |
| 87) Indeno(1,2,3-cd)pyrene  | 26.298 | 276  | 128274   | 2.346  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.027 | 252  | 260943m  | 5.960  | ng    |          |
| 90) Benzo(a)pyrene          | 23.657 | 252  | 207364   | 5.038  | ng    | # 88     |
| 92) Benzo(g,h,i)perylene    | 27.080 | 276  | 145116   | 3.122  | ng    | # 91     |
| -----                       |        |      |          |        |       |          |

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

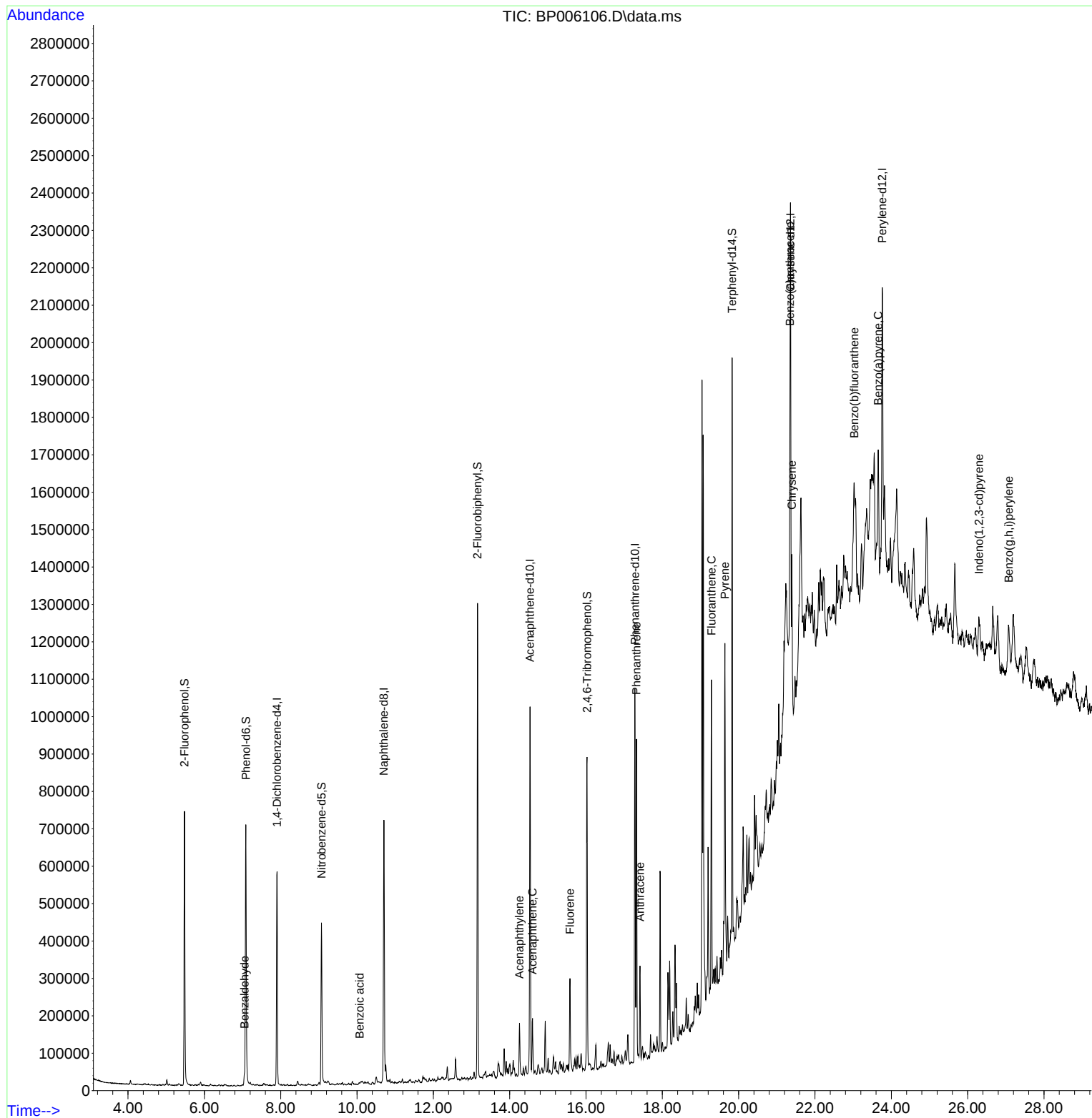
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP062921\  
Data File : BP006106.D  
Acq On : 29 Jun 2021 23:44  
Operator : CG/JU  
Sample : M2891-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

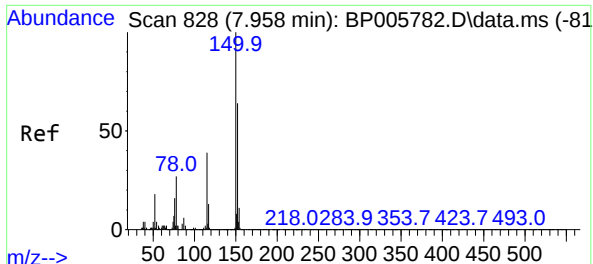
Instrument :  
BNA\_P  
ClientSampled :  
TR-04-062821

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Quant Time: Jun 30 01:15:21 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 28 11:34:30 2021  
Response via : Initial Calibration





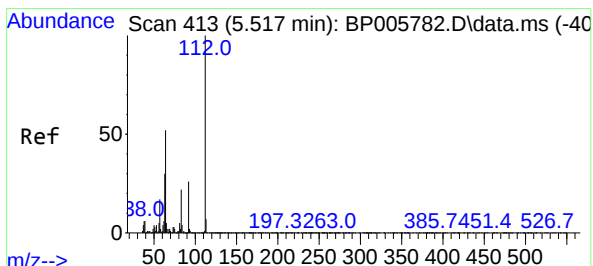
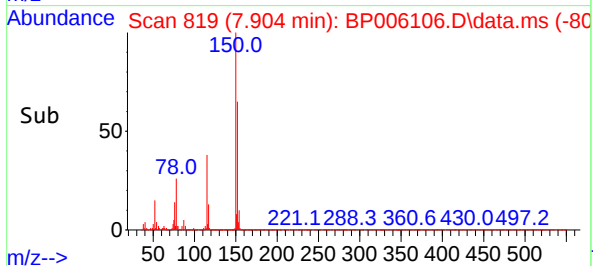
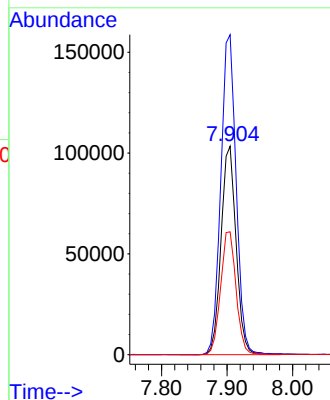
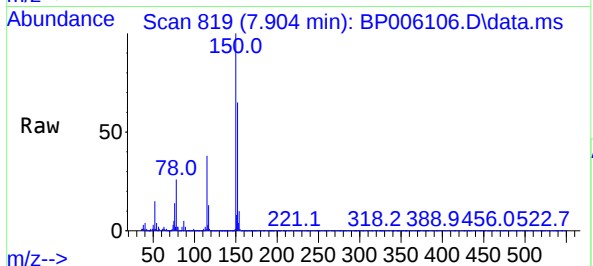
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.904 min Scan# 819  
Delta R.T. -0.001 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion:152 Resp: 164164  
Ion Ratio Lower Upper  
152 100  
150 153.5 125.6 188.4  
115 59.0 48.5 72.7

Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821

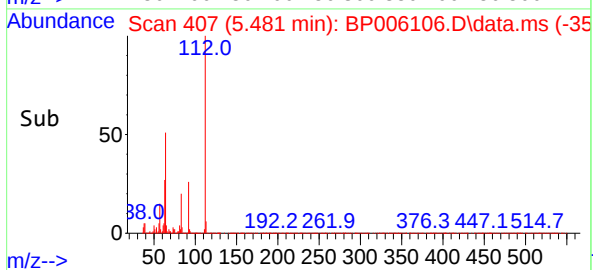
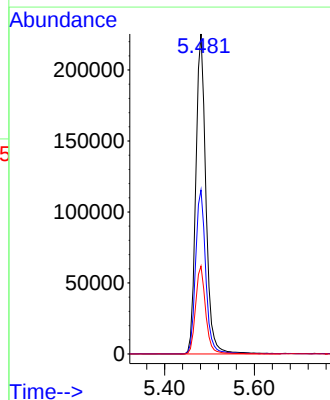
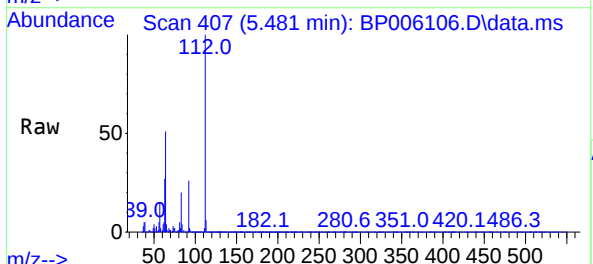
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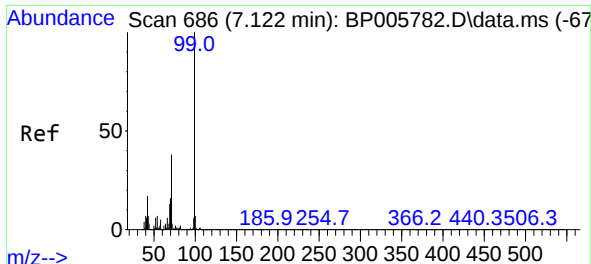
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#5  
2-Fluorophenol  
Concen: 34.405 ng  
RT: 5.481 min Scan# 407  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion:112 Resp: 351987  
Ion Ratio Lower Upper  
112 100  
64 51.2 41.4 62.2  
63 27.5 23.8 35.8





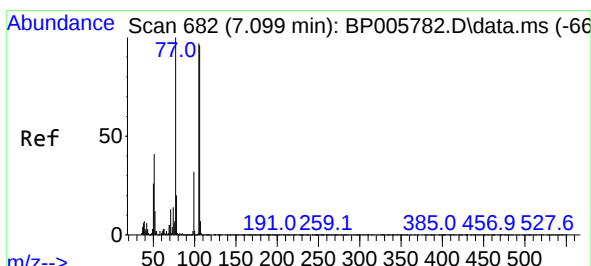
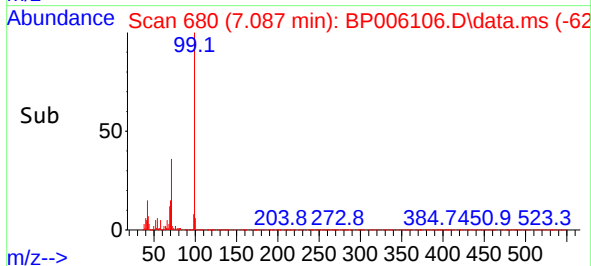
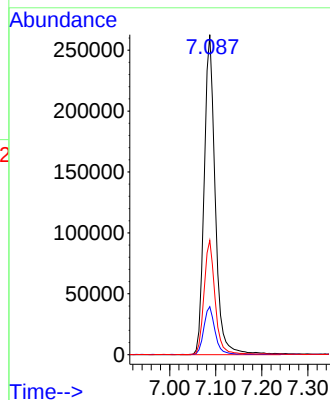
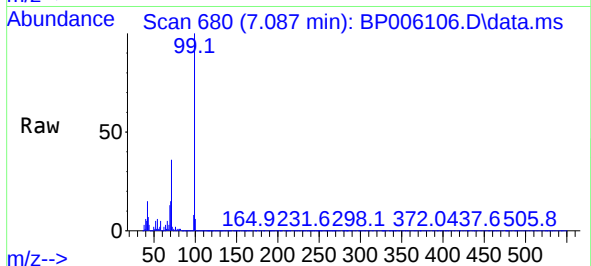
#7  
Phenol-d6  
Concen: 33.346 ng  
RT: 7.087 min Scan# 680  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion: 99 Resp: 442183  
Ion Ratio Lower Upper  
99 100  
42 15.0 13.4 20.0  
71 35.7 30.6 46.0

Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821

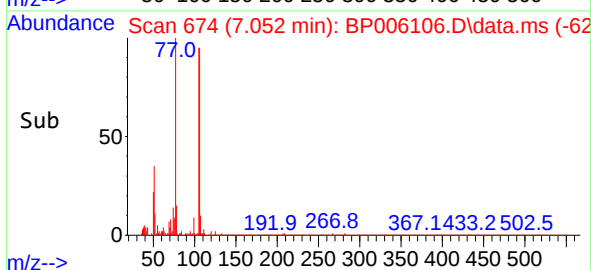
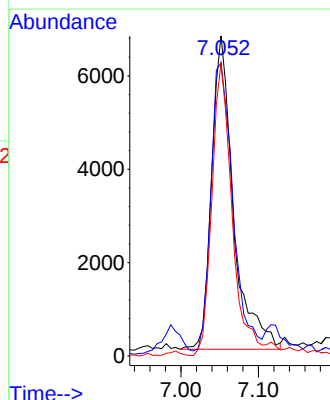
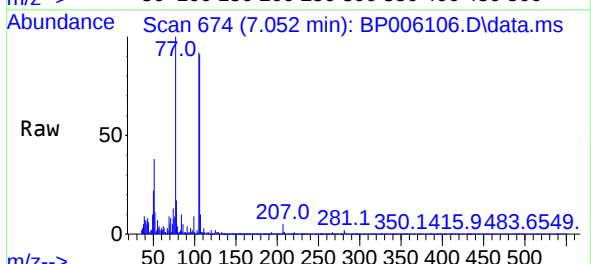
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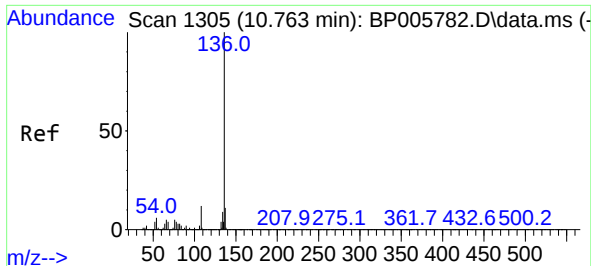
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#9  
Benzaldehyde  
Concen: 2.317 ng  
RT: 7.052 min Scan# 674  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

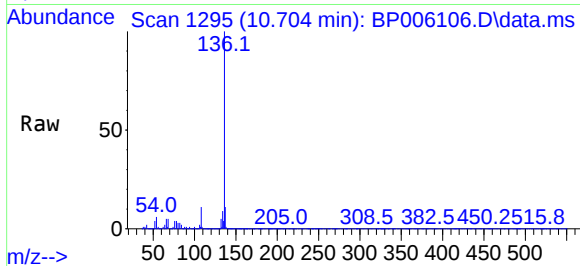
Tgt Ion: 77 Resp: 13100  
Ion Ratio Lower Upper  
77 100  
105 91.6 76.7 116.7  
106 91.4 76.2 116.2





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.704 min Scan# 1295  
Delta R.T. -0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

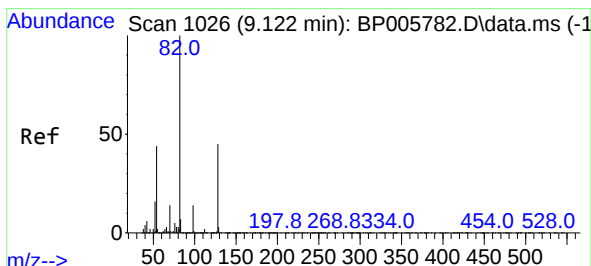
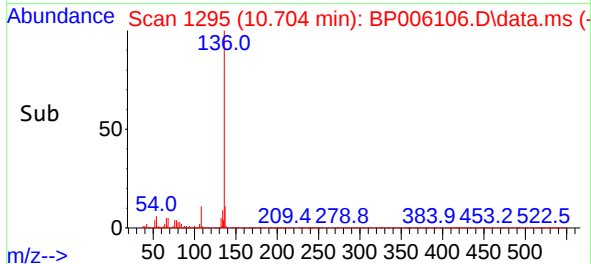
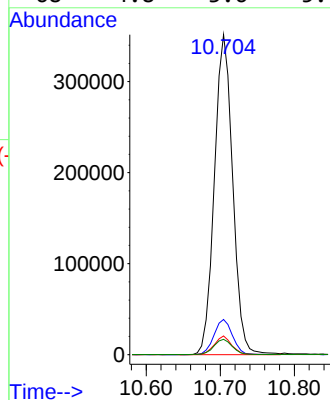
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 602615 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.6   | 12.8   |
| 54        | 5.9   | 4.6   | 6.8    |
| 68        | 4.8   | 3.6   | 5.4    |

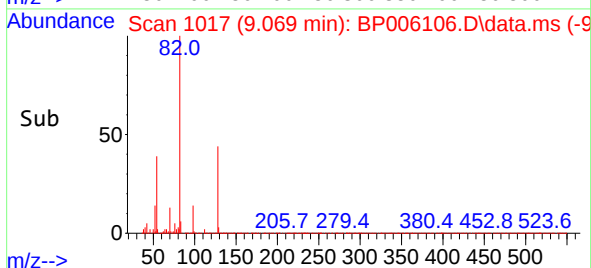
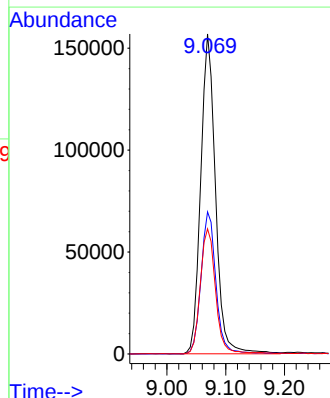
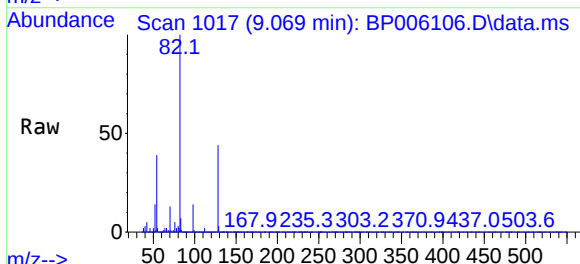
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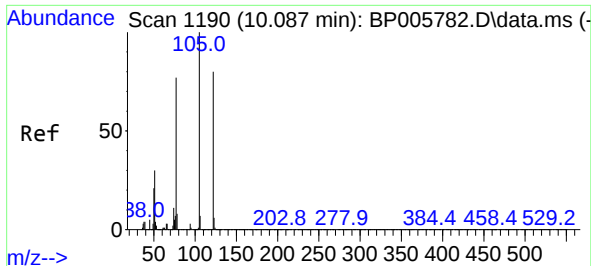
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#23  
Nitrobenzene-d5  
Concen: 22.339 ng  
RT: 9.069 min Scan# 1017  
Delta R.T. -0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

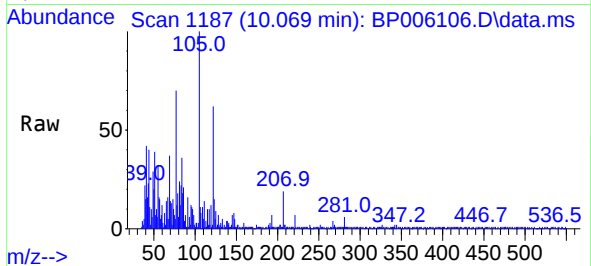
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 274582 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.4  | 35.7  | 53.5   |
| 54        | 39.1  | 35.0  | 52.4   |





#32  
Benzoic acid  
Concen: 6.864 ng m  
RT: 10.069 min Scan# 1187  
Delta R.T. -0.012 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

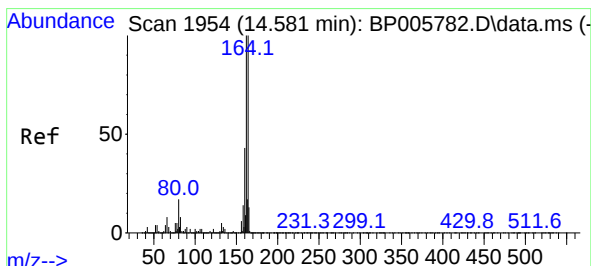
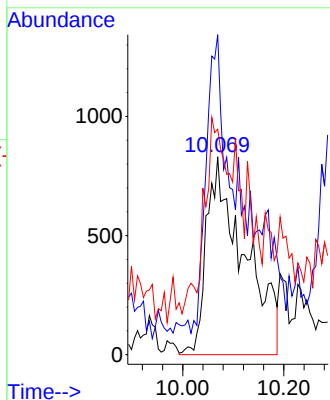
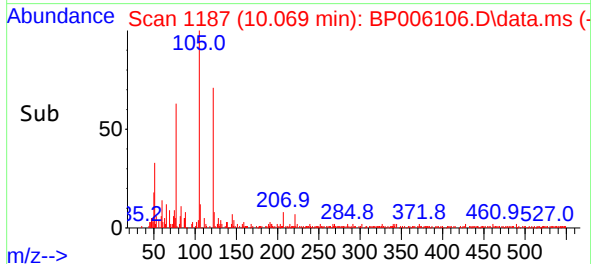
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



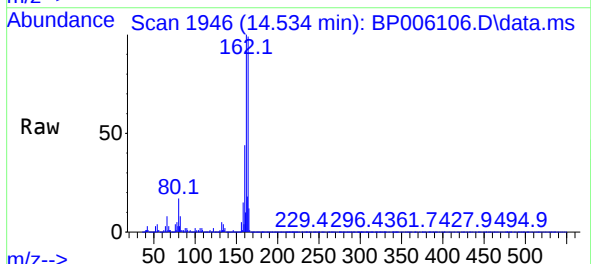
Tgt Ion:122 Resp: 4262  
Ion Ratio Lower Upper  
122 100  
105 161.6 103.2 143.2#  
77 113.8 76.2 116.2

Manual Integrations  
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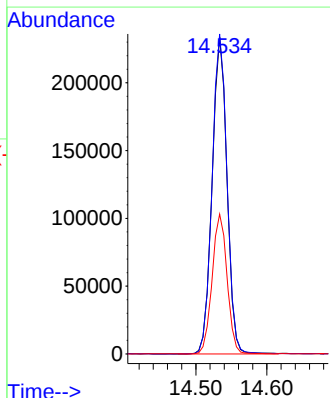
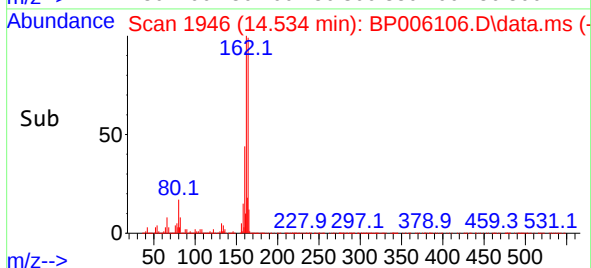
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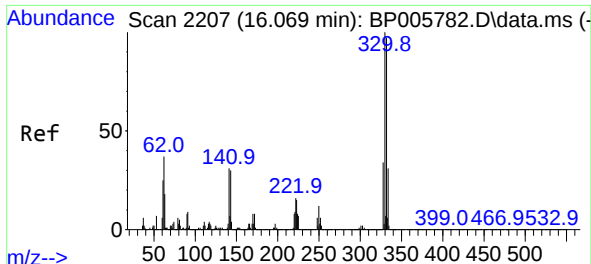


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.534 min Scan# 1946  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44



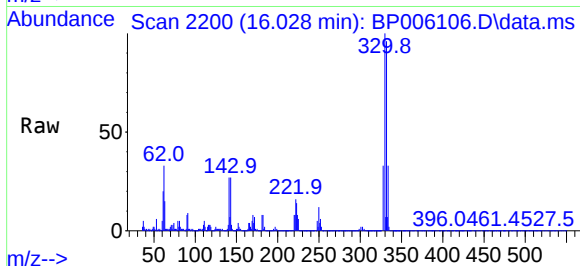
Tgt Ion:164 Resp: 338894  
Ion Ratio Lower Upper  
164 100  
162 101.0 80.2 120.2  
160 44.1 34.5 51.7





#42  
2,4,6-Tribromophenol  
Concen: 31.222 ng  
RT: 16.028 min Scan# 2200  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

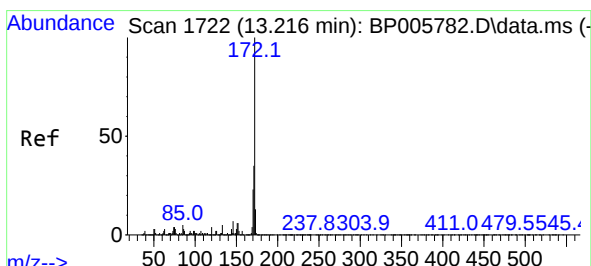
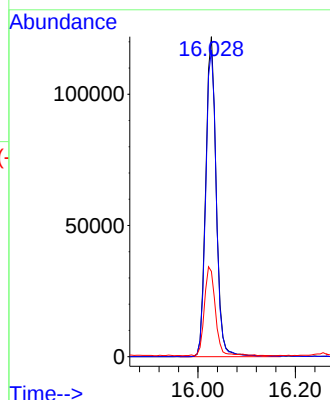
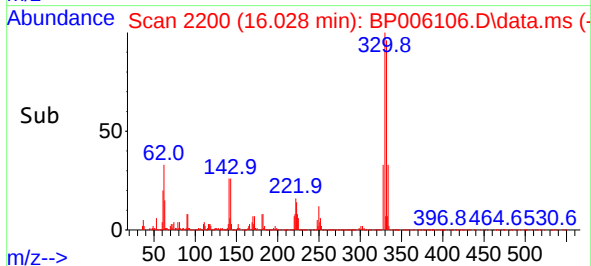
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



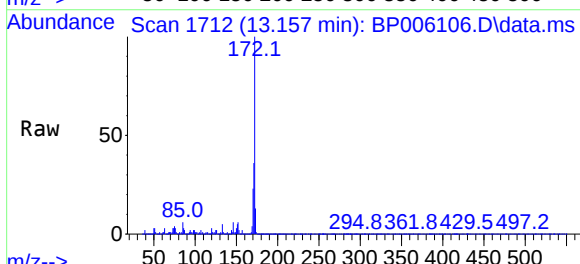
Tgt Ion:330 Resp: 181575  
Ion Ratio Lower Upper  
330 100  
332 97.0 77.8 116.8  
141 29.6 25.4 38.2

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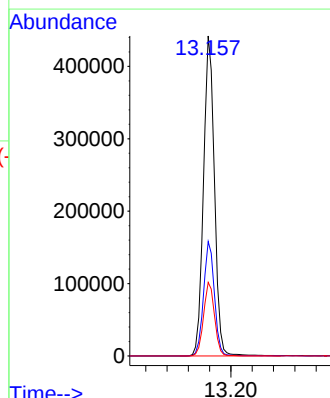
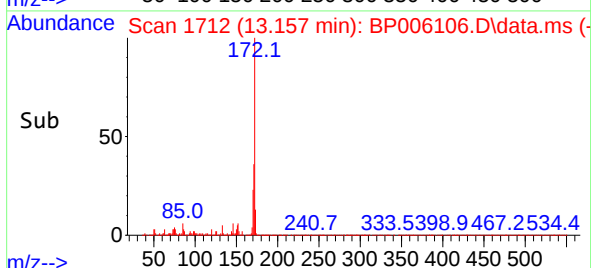
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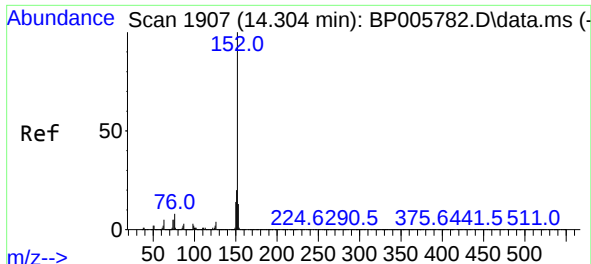


#45  
2-Fluorobiphenyl  
Concen: 24.462 ng  
RT: 13.157 min Scan# 1712  
Delta R.T. -0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44



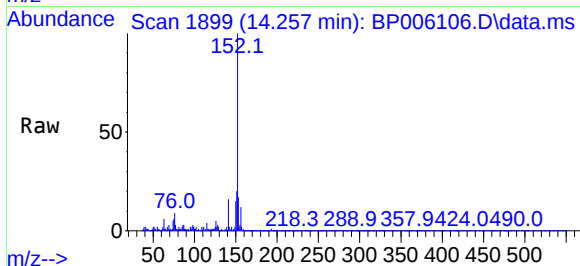
Tgt Ion:172 Resp: 631313  
Ion Ratio Lower Upper  
172 100  
171 35.7 27.9 41.9  
170 23.0 18.6 27.8





#49  
Acenaphthylene  
Concen: 2.583 ng  
RT: 14.257 min Scan# 1899  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

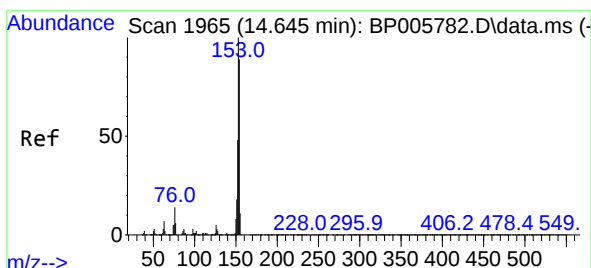
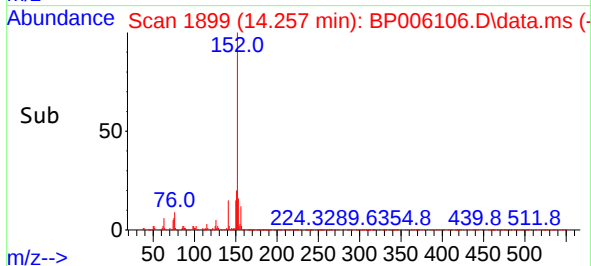
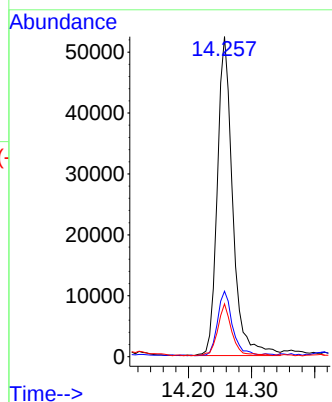
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



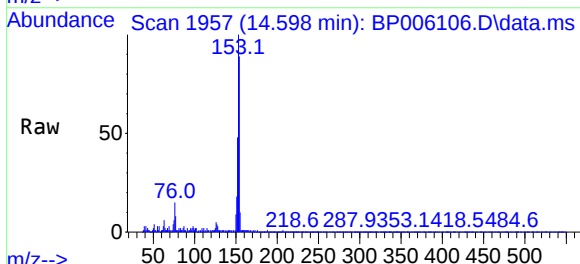
Tgt Ion:152 Resp: 88419  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.2 24.2  
153 16.5 10.6 16.0#

Manual Integrations  
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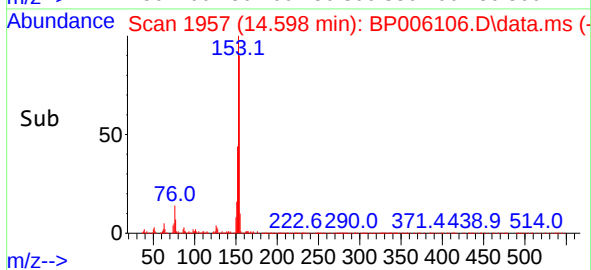
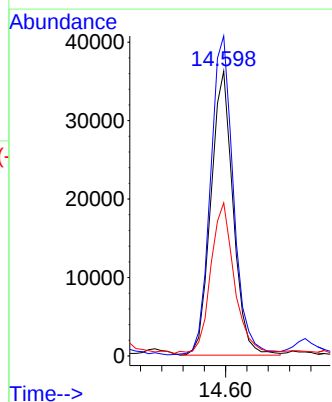
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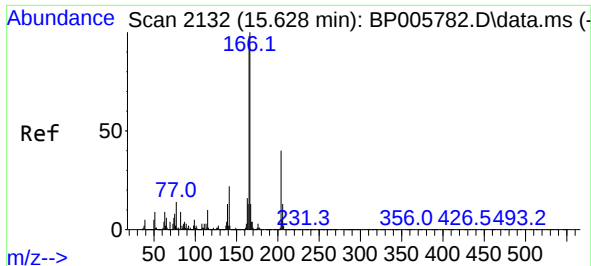


#52  
Acenaphthene  
Concen: 2.520 ng  
RT: 14.598 min Scan# 1957  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44



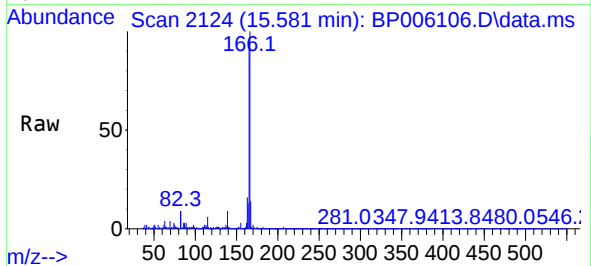
Tgt Ion:154 Resp: 52393  
Ion Ratio Lower Upper  
154 100  
153 112.4 89.4 134.2  
152 53.8 43.0 64.4





#58  
Fluorene  
Concen: 4.239 ng  
RT: 15.581 min Scan# 2124  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

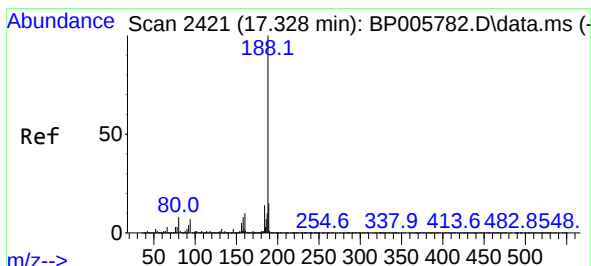
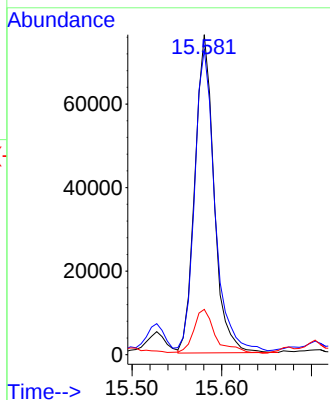
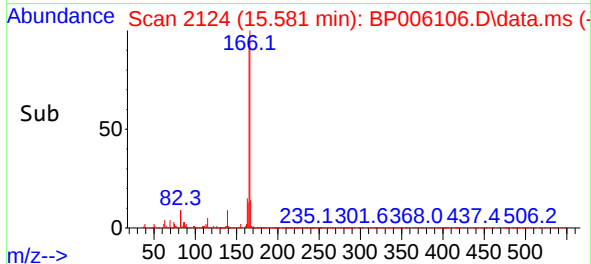
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



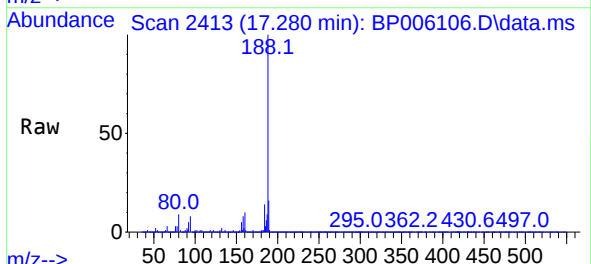
Tgt Ion:166 Resp: 112909  
Ion Ratio Lower Upper  
166 100  
165 95.3 78.0 117.0  
167 14.1 10.5 15.7

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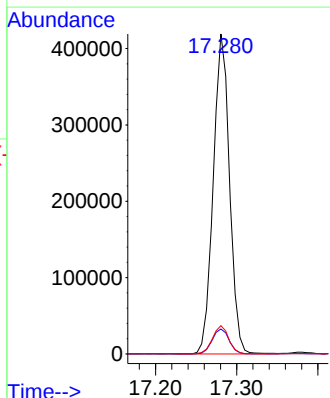
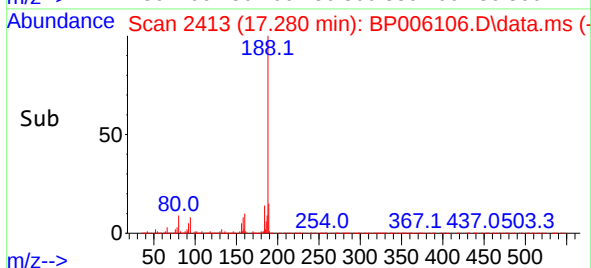
mohammad  
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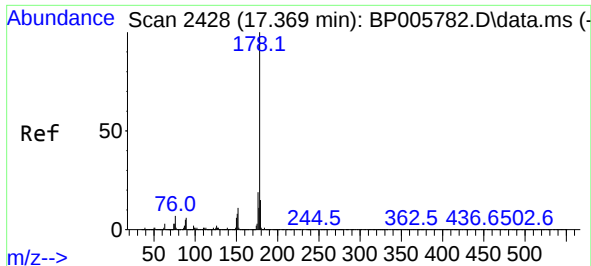


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.280 min Scan# 2413  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44



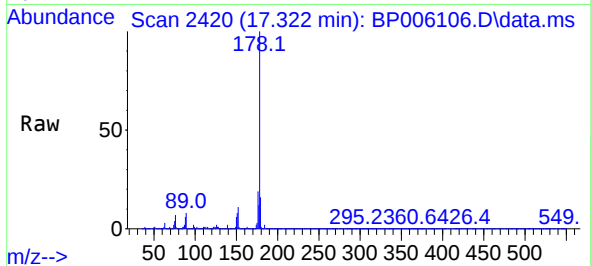
Tgt Ion:188 Resp: 583099  
Ion Ratio Lower Upper  
188 100  
94 7.8 5.6 8.4  
80 8.8 6.3 9.5





#71  
Phenanthrene  
Concen: 13.834 ng  
RT: 17.322 min Scan# 2420  
Delta R.T. -0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

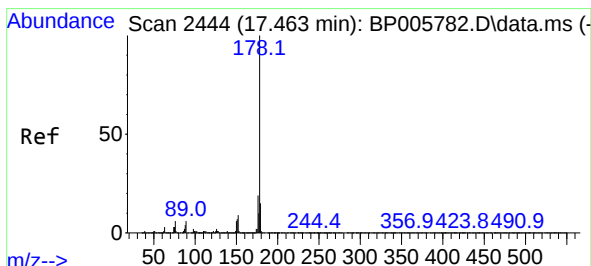
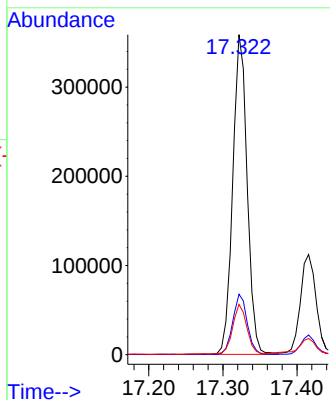
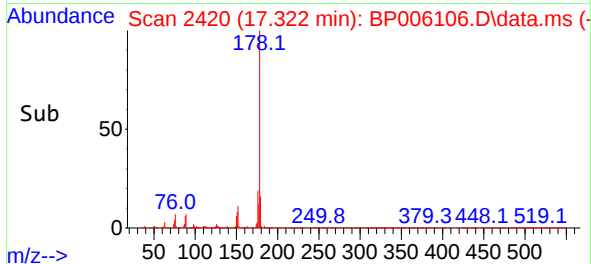
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



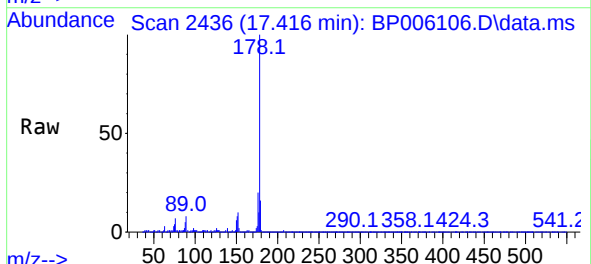
Tgt Ion:178 Resp: 484437  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.1 22.7  
179 15.7 12.4 18.6

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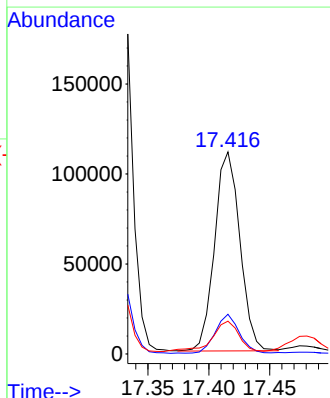
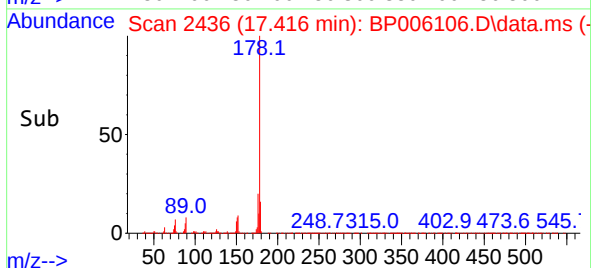
mohammad  
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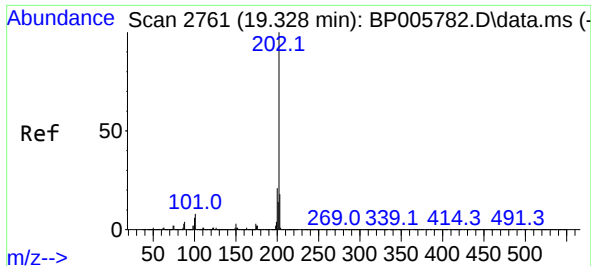


#72  
Anthracene  
Concen: 4.654 ng  
RT: 17.416 min Scan# 2436  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44



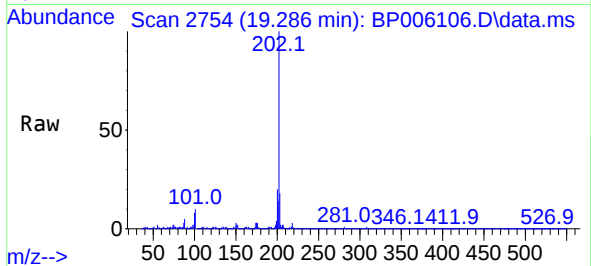
Tgt Ion:178 Resp: 160385  
Ion Ratio Lower Upper  
178 100  
176 19.7 14.9 22.3  
179 16.2 12.2 18.2





#75  
Fluoranthene  
Concen: 10.930 ng  
RT: 19.286 min Scan# 2754  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

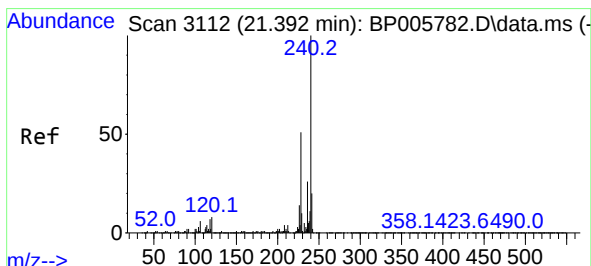
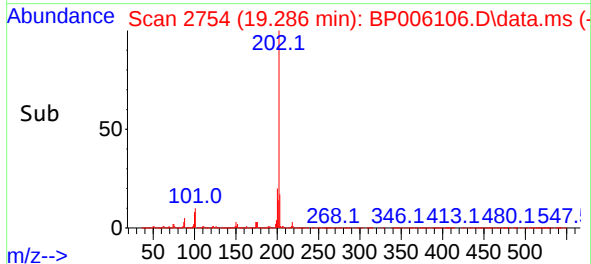
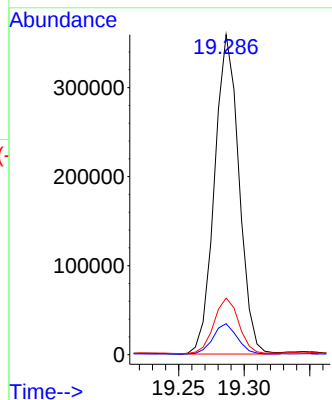
Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



Tgt Ion:202 Resp: 464802  
Ion Ratio Lower Upper  
202 100  
101 9.7 0.0 27.6  
203 17.7 0.0 37.8

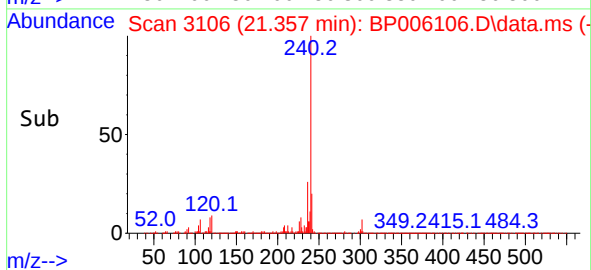
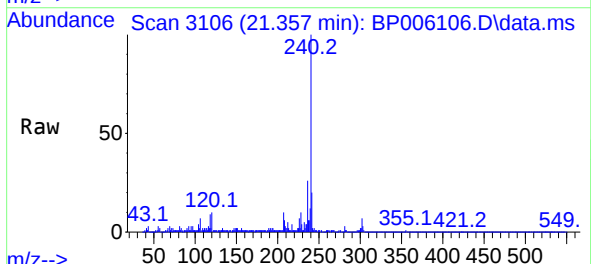
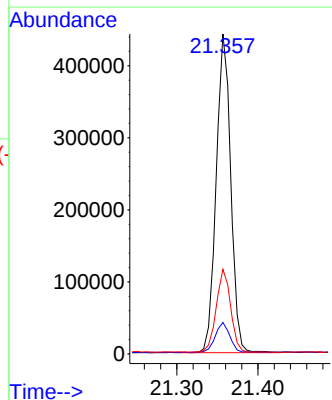
Manual Integrations  
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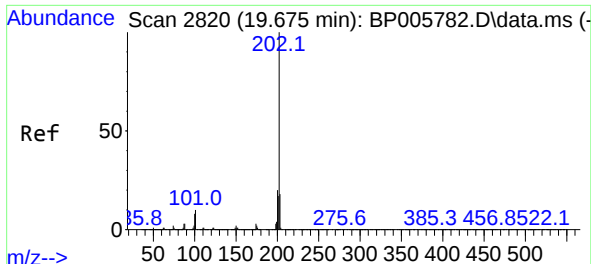
mohammad  
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#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.357 min Scan# 3106  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion:240 Resp: 552014  
Ion Ratio Lower Upper  
240 100  
120 9.9 6.5 9.7#  
236 26.4 20.6 31.0





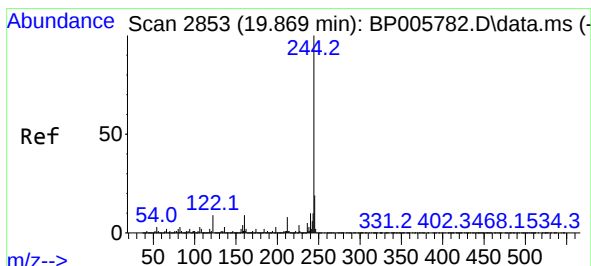
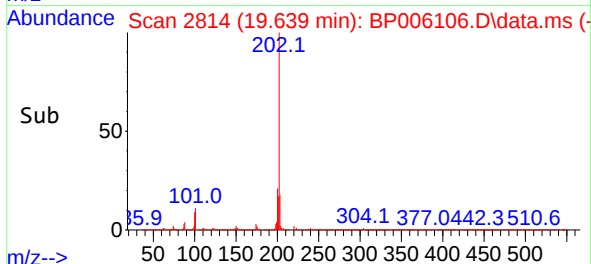
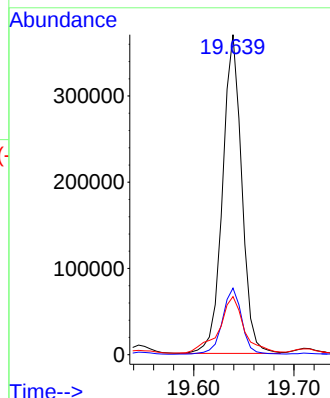
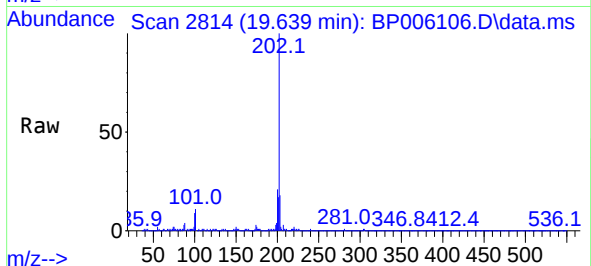
#78  
Pyrene  
Concen: 12.724 ng  
RT: 19.639 min Scan# 2814  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion:202 Resp: 490351  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.3 24.5  
203 18.2 14.2 21.2

Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821

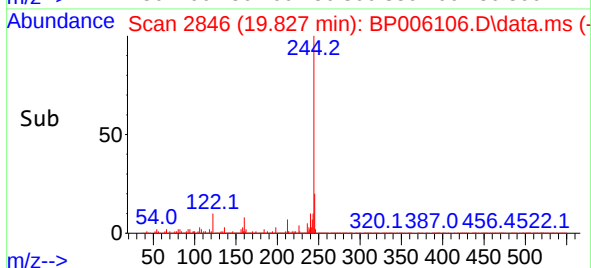
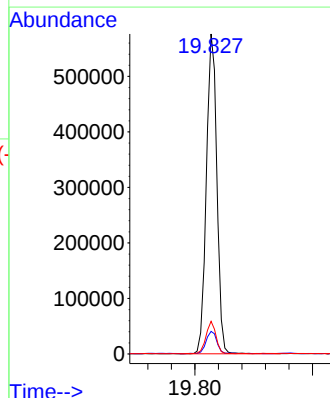
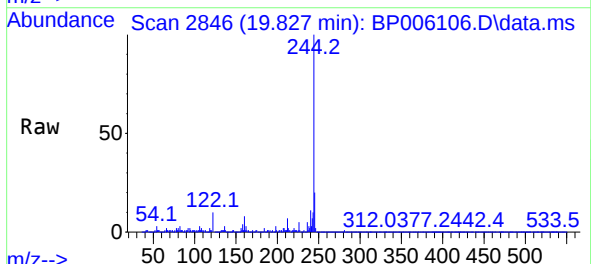
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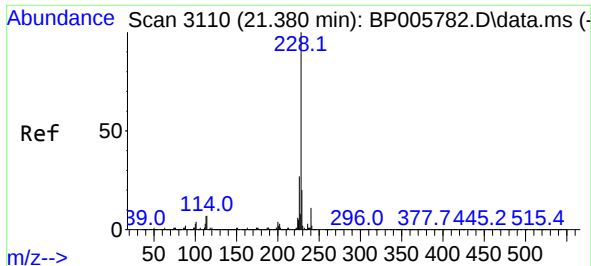
mohammad  
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#79  
Terphenyl-d14  
Concen: 24.254 ng  
RT: 19.827 min Scan# 2846  
Delta R.T. -0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion:244 Resp: 715002  
Ion Ratio Lower Upper  
244 100  
212 7.0 6.0 9.0  
122 10.2 7.1 10.7





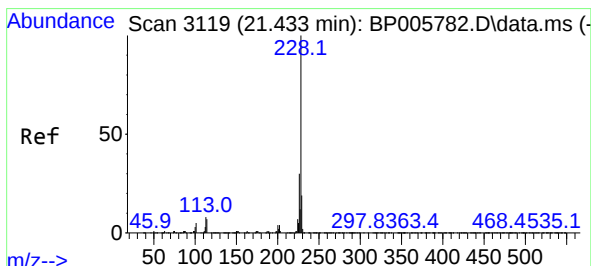
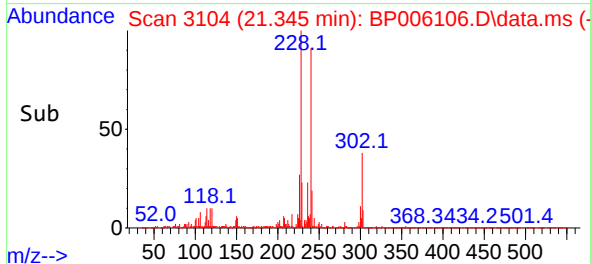
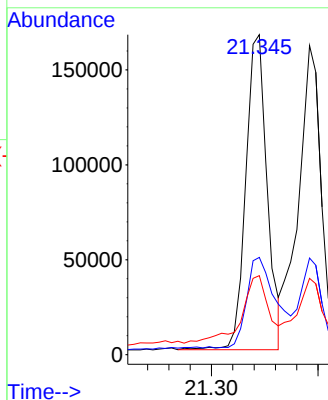
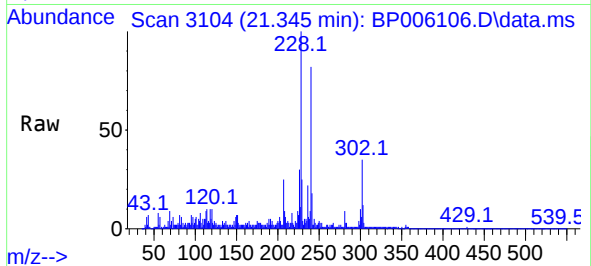
#81  
Benzo(a)anthracene  
Concen: 5.798 ng  
RT: 21.345 min Scan# 3104  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Tgt Ion:228 Resp: 231033  
Ion Ratio Lower Upper  
228 100  
226 30.4 21.6 32.4  
229 24.7 15.8 23.6#

Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821

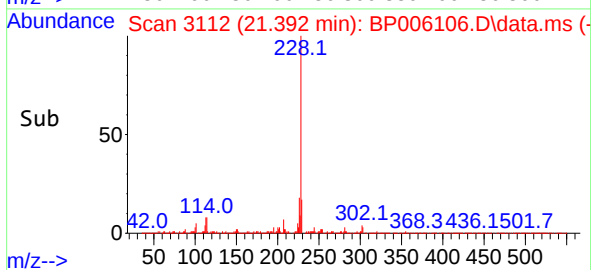
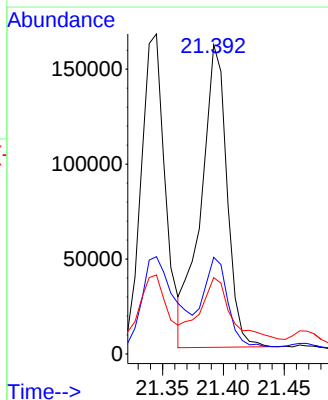
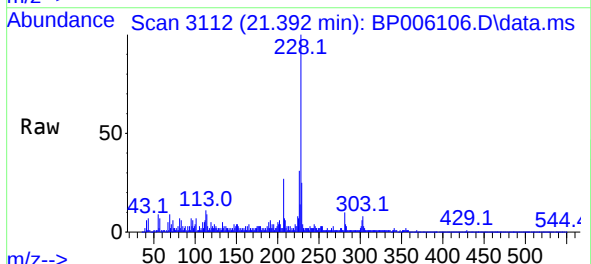
Manual Integrations  
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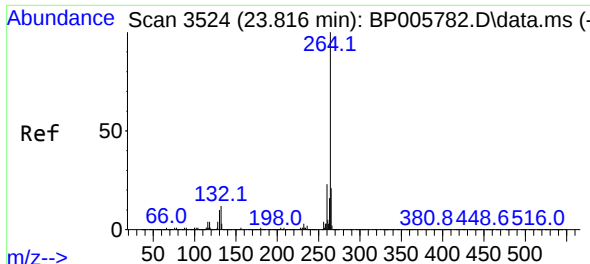
mohammad  
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#83  
Chrysene  
Concen: 6.143 ng  
RT: 21.392 min Scan# 3112  
Delta R.T. -0.000 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

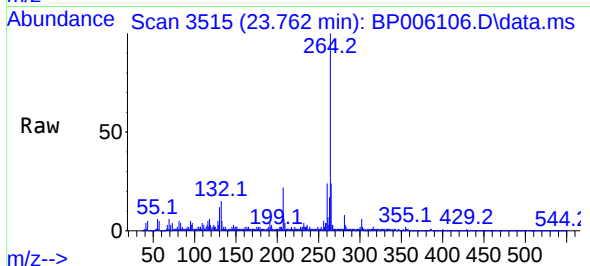
Tgt Ion:228 Resp: 237104  
Ion Ratio Lower Upper  
228 100  
226 31.3 23.8 35.6  
229 24.7 15.4 23.2#





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.762 min Scan# 3515  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

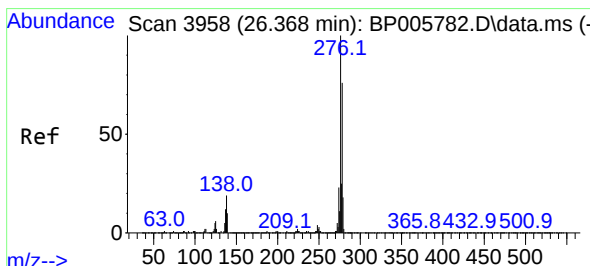
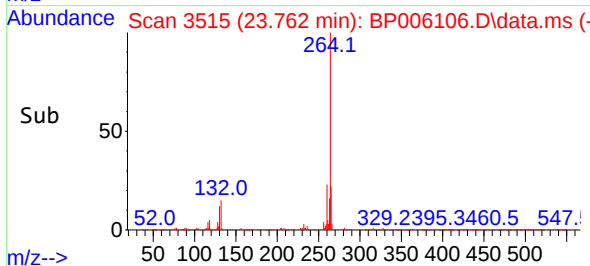
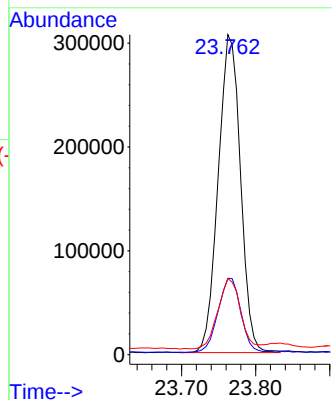
Instrument :  
BNA\_P  
ClientSampled :  
TR-04-062821



Tgt Ion:264 Resp: 639271  
Ion Ratio Lower Upper  
264 100  
260 23.8 18.6 28.0  
265 23.8 17.6 26.4

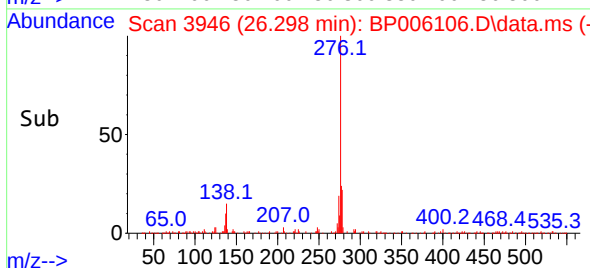
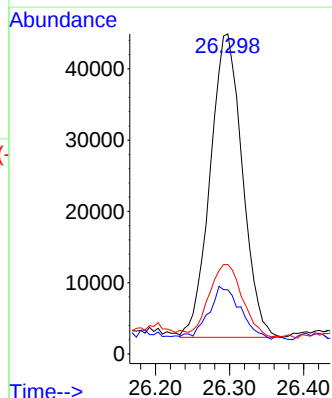
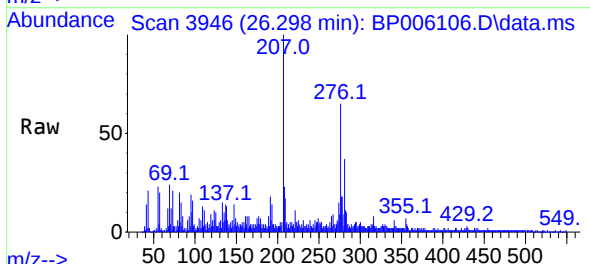
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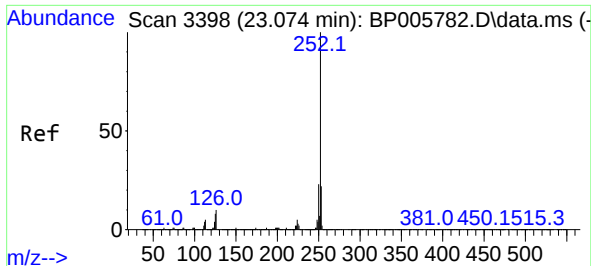
mohammad  
6/30/2021 2:14:12 PM



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.346 ng  
RT: 26.298 min Scan# 3946  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

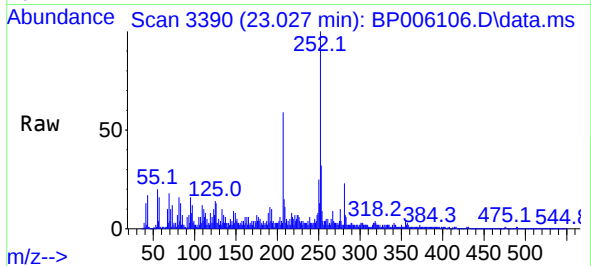
Tgt Ion:276 Resp: 128274  
Ion Ratio Lower Upper  
276 100  
138 17.6 15.3 22.9  
277 24.4 20.4 30.6





#88  
Benzo(b)fluoranthene  
Concen: 5.960 ng m  
RT: 23.027 min Scan# 3390  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

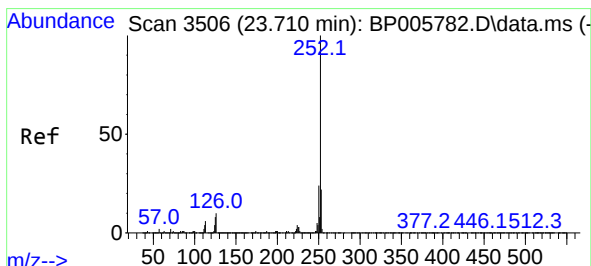
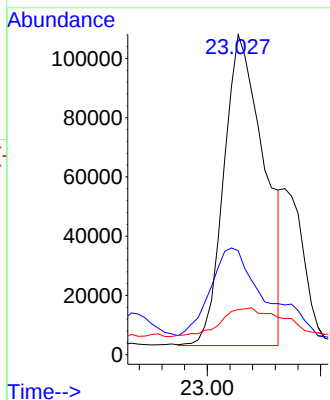
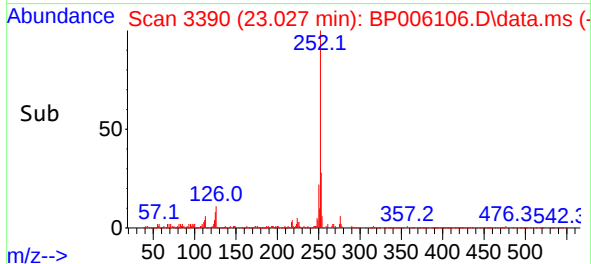
Instrument :  
BNA\_P  
ClientSampled :  
TR-04-062821



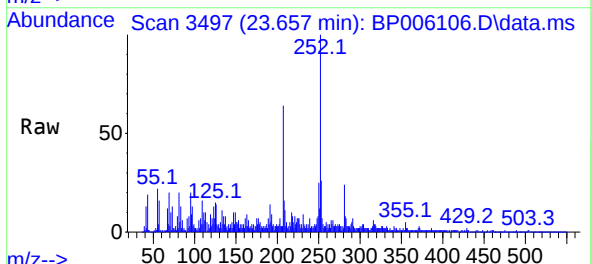
Tgt Ion:252 Resp: 260943  
Ion Ratio Lower Upper  
252 100  
253 32.5 17.5 26.3#  
125 14.1 6.2 9.4#

Manual Integrations  
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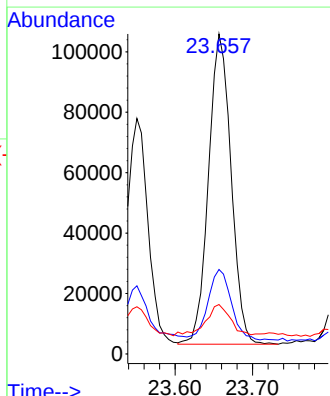
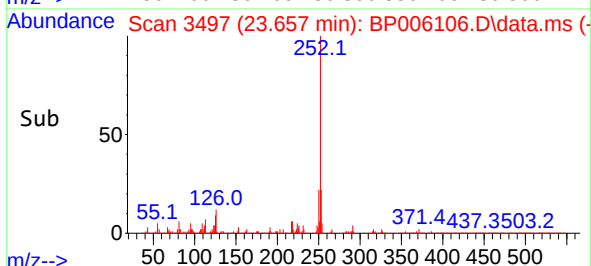
mohammad  
6/30/2021 2:14:12 PM

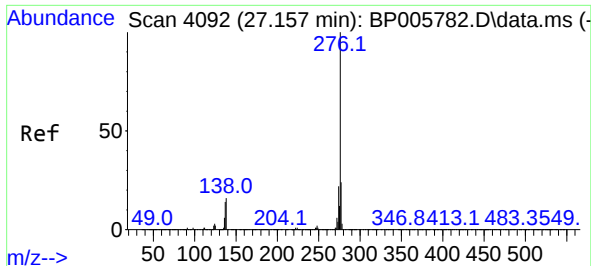


#90  
Benzo(a)pyrene  
Concen: 5.038 ng  
RT: 23.657 min Scan# 3497  
Delta R.T. 0.006 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44



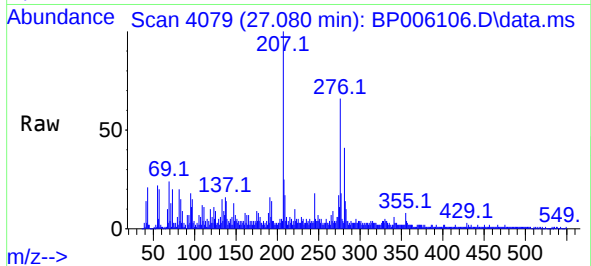
Tgt Ion:252 Resp: 207364  
Ion Ratio Lower Upper  
252 100  
253 26.4 17.9 26.9  
125 15.5 6.5 9.7#





#92  
Benzo(g,h,i)perylene  
Concen: 3.122 ng  
RT: 27.080 min Scan# 4079  
Delta R.T. 0.018 min  
Lab File: BP006106.D  
Acq: 29 Jun 2021 23:44

Instrument :  
BNA\_P  
ClientSampleId :  
TR-04-062821



Tgt Ion: 276 Resp: 145116  
Ion Ratio Lower Upper  
276 100  
277 27.4 18.9 28.3  
138 20.6 12.6 18.8#

Manual Integrations  
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