

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP120821\  
 Data File : BP008301.D  
 Acq On : 09 Dec 2021 03:42  
 Operator : CG/JU  
 Sample : M4954-05DL 10X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SB-5(7.5-8)DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/09/2021  
 Supervised By :mohammad ahmed 12/15/2021

Quant Time: Dec 09 06:21:00 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP112521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 09 01:43:36 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.769  | 152  | 76597    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.569 | 136  | 265455   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.428 | 164  | 172491   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.192 | 188  | 345104   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.292 | 240  | 403717   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 23.686 | 264  | 453138   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.369  | 112  | 36958    | 7.769   | ng    | 0.00     |
| 7) Phenol-d6                | 6.963  | 99   | 49441    | 7.699   | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.934  | 82   | 50058    | 8.575   | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.934 | 330  | 11038    | 5.007   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.045 | 172  | 74136    | 6.243   | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.763 | 244  | 119961   | 6.210   | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 10.616 | 128  | 311316   | 22.893  | ng    | # 93     |
| 37) 2-Methylnaphthalene     | 12.240 | 142  | 1252649  | 130.243 | ng    | 97       |
| 38) 1-Methylnaphthalene     | 12.457 | 142  | 812163   | 86.754  | ng    | 100      |
| 46) 1,1'-Biphenyl           | 13.257 | 154  | 138249   | 11.047  | ng    | 99       |
| 49) Acenaphthylene          | 14.151 | 152  | 49458    | 3.244   | ng    | # 1      |
| 52) Acenaphthene            | 14.492 | 154  | 86734    | 9.545   | ng    | 90       |
| 55) Dibenzofuran            | 14.828 | 168  | 77615    | 4.998   | ng    | # 1      |
| 56) 4-Nitrophenol           | 14.728 | 139  | 17128    | 8.203   | ng    | # 55     |
| 58) Fluorene                | 15.481 | 166  | 157426   | 12.478  | ng    | # 86     |
| 71) Phenanthrene            | 17.233 | 178  | 655060   | 35.951  | ng    | 98       |
| 72) Anthracene              | 17.328 | 178  | 46403m   | 2.566   | ng    |          |
| -----                       |        |      |          |         |       |          |

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

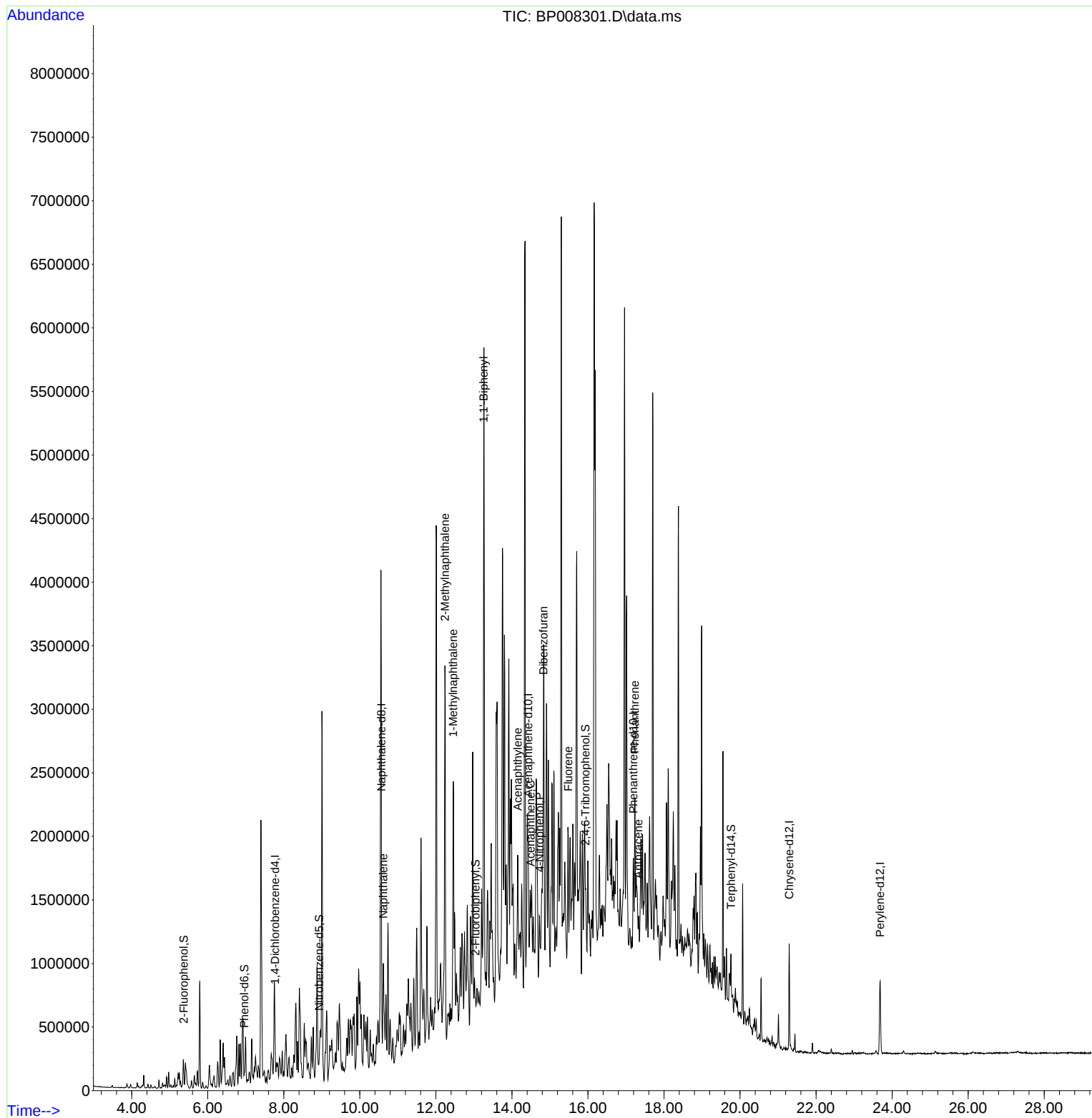
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP120821\  
Data File : BP008301.D  
Acq On : 09 Dec 2021 03:42  
Operator : CG/JU  
Sample : M4954-05DL 10X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

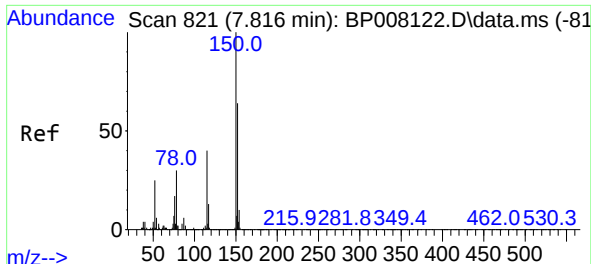
Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Quant Time: Dec 09 06:21:00 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP112521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 09 01:43:36 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.769 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :

BNA\_P

ClientSampleId :

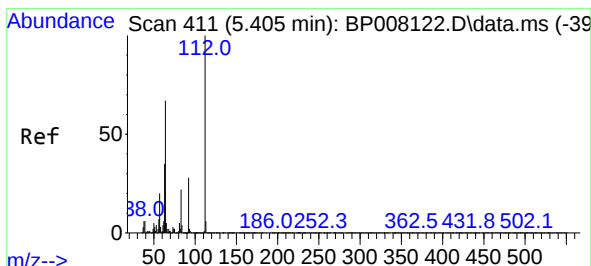
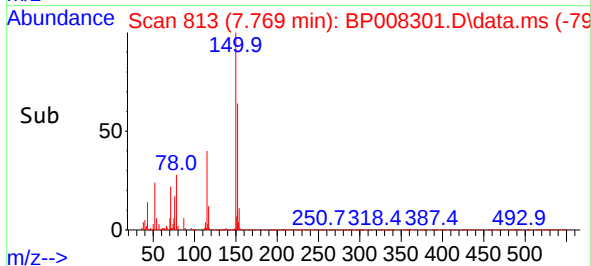
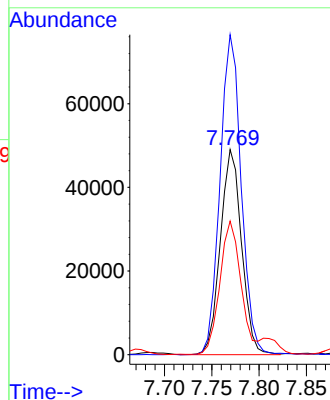
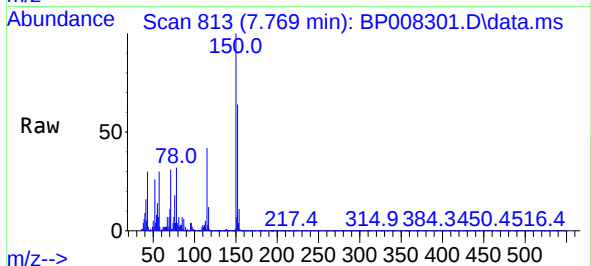
SB-5(7.5-8)DL

Tgt Ion:152 Resp: 7659  
Ion Ratio Lower Upper  
152 100  
150 156.0 125.7 188.5  
115 65.1 50.7 76.1

Manual Integrations

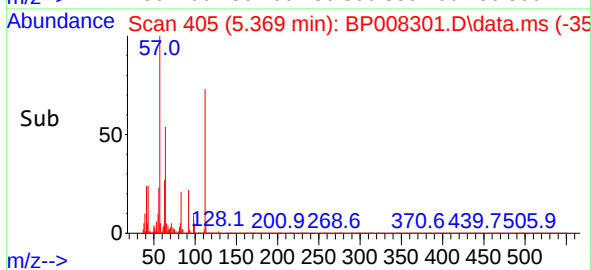
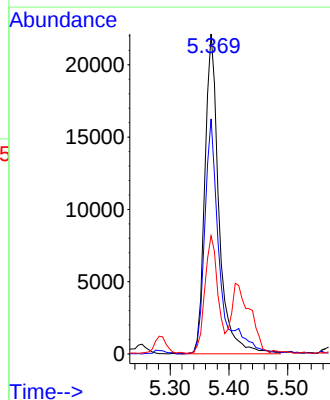
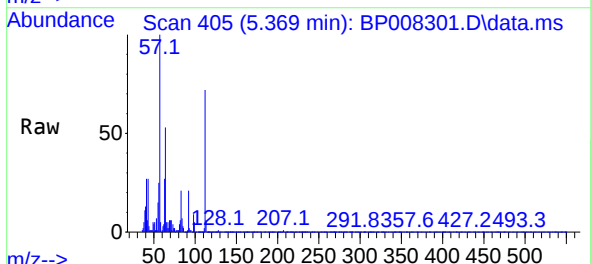
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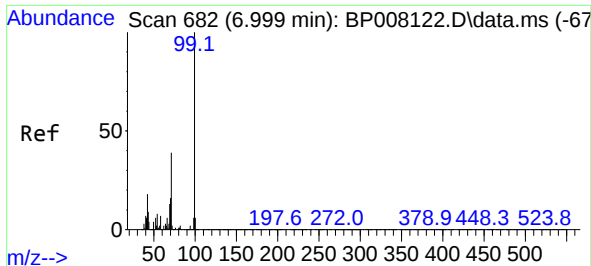
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#5  
2-Fluorophenol  
Concen: 7.769 ng  
RT: 5.369 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Tgt Ion:112 Resp: 36958  
Ion Ratio Lower Upper  
112 100  
64 73.5 53.4 80.2  
63 36.9 27.8 41.8





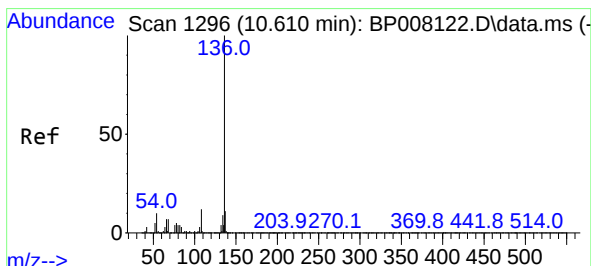
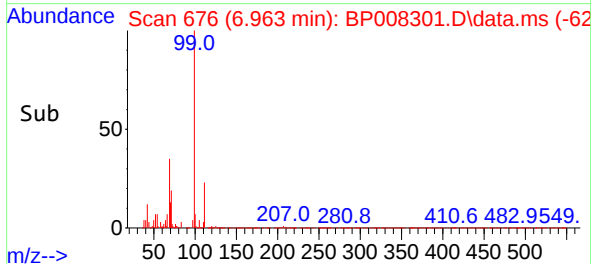
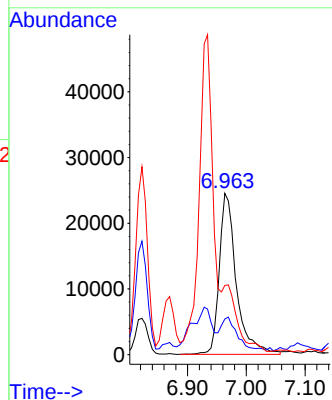
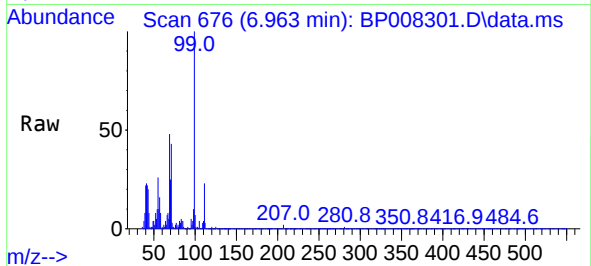
#7  
Phenol-d6  
Concen: 7.699 ng  
RT: 6.963 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Tgt Ion: 99 Resp: 4944  
Ion Ratio Lower Upper  
99 100  
42 22.1 14.6 22.0#  
71 43.0 31.1 46.7

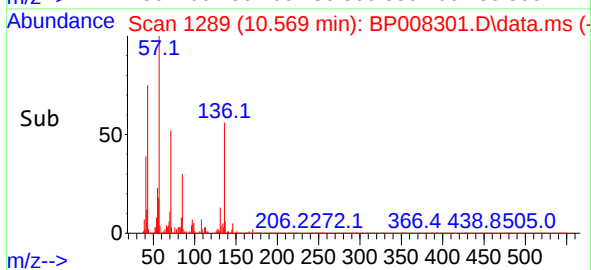
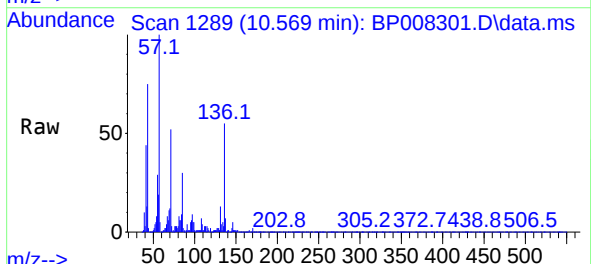
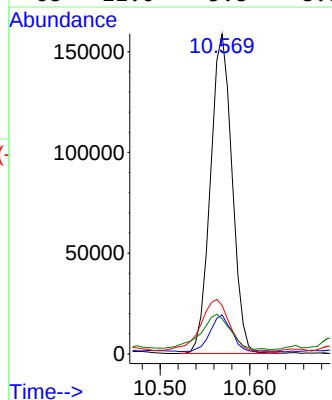
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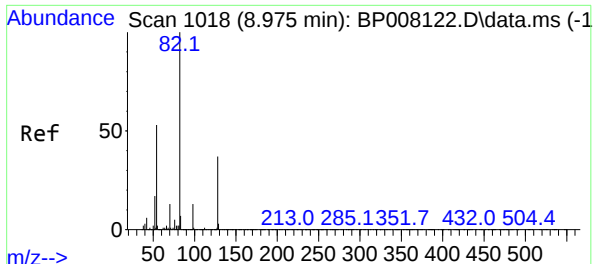
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.569 min Scan# 1289  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Tgt Ion:136 Resp: 265455  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.0 13.6  
54 15.1 8.2 12.4#  
68 11.0 5.8 8.8#





#23

Nitrobenzene-d5

Concen: 8.575 ng

RT: 8.934 min Scan# 1011

Delta R.T. -0.006 min

Lab File: BP008301.D

Acq: 09 Dec 2021 03:42

Instrument :

BNA\_P

ClientSampleId :

SB-5(7.5-8)DL

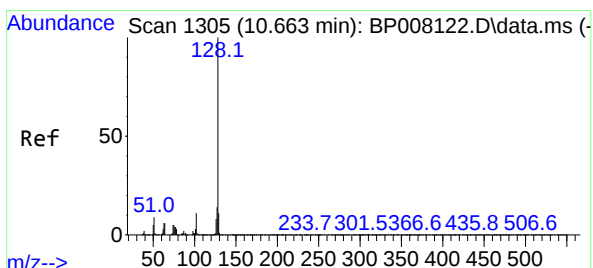
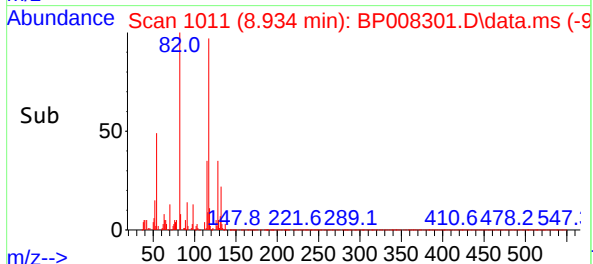
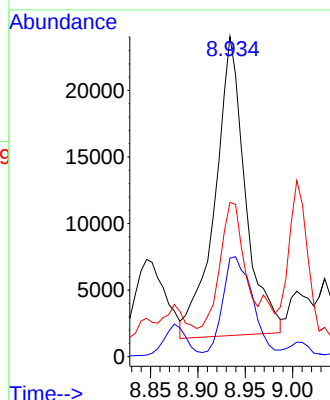
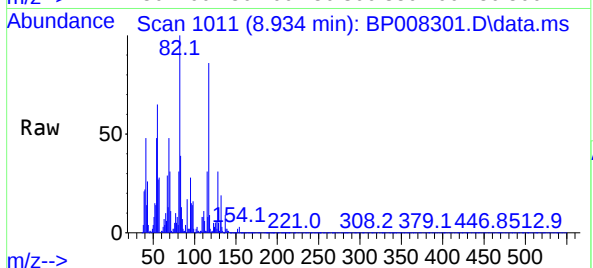
Tgt Ion: 82 Resp: 50058

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 30.8  | 29.6  | 44.4  |
| 54  | 48.2  | 42.7  | 64.1  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#31

Naphthalene

Concen: 22.893 ng

RT: 10.616 min Scan# 1297

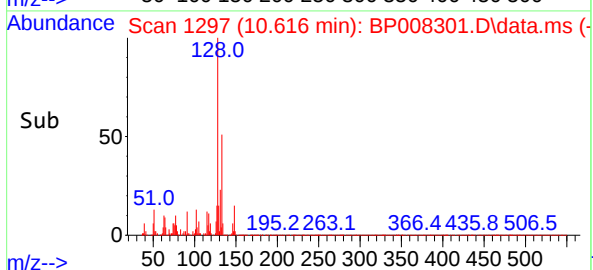
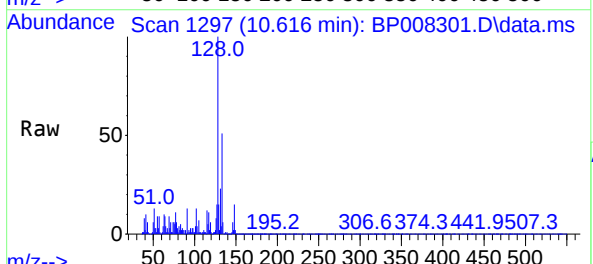
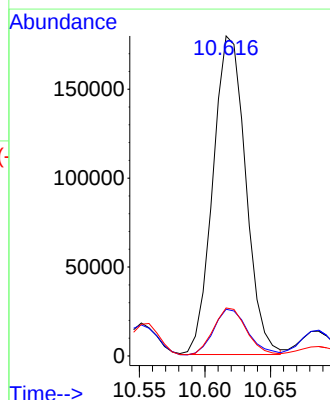
Delta R.T. -0.006 min

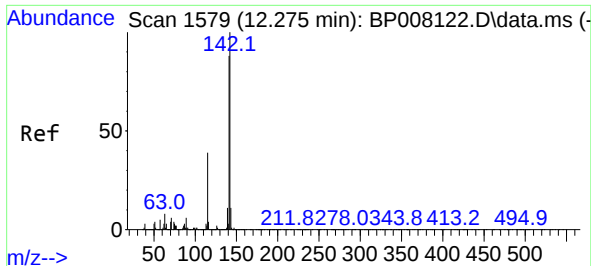
Lab File: BP008301.D

Acq: 09 Dec 2021 03:42

Tgt Ion:128 Resp: 311316

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 14.6  | 8.5   | 12.7# |
| 127 | 15.0  | 10.9  | 16.3  |





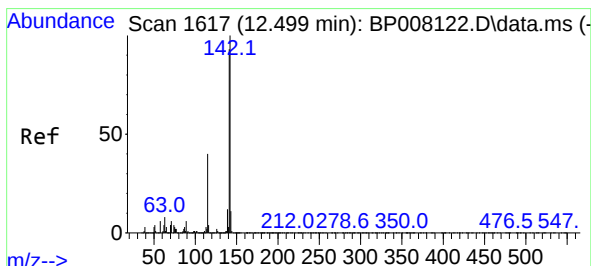
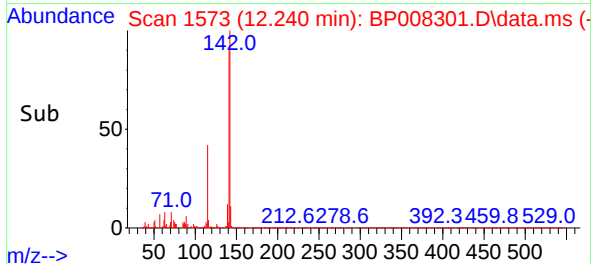
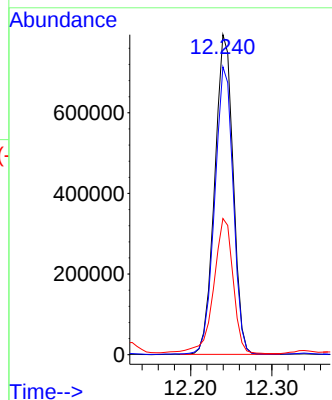
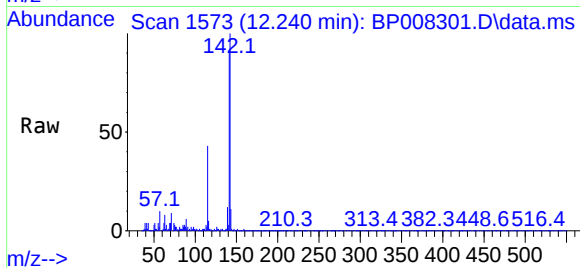
#37  
2-Methylnaphthalene  
Concen: 130.243 ng  
RT: 12.240 min Scan# 1610  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Tgt Ion:142 Resp: 1252649  
Ion Ratio Lower Upper  
142 100  
141 90.0 70.7 106.1  
115 42.6 30.9 46.3

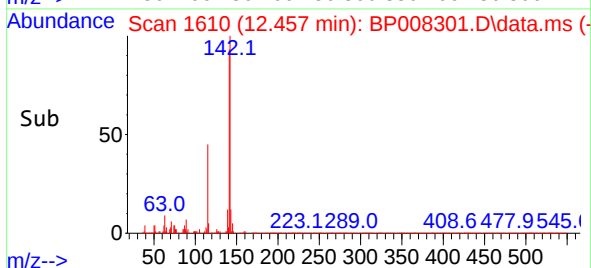
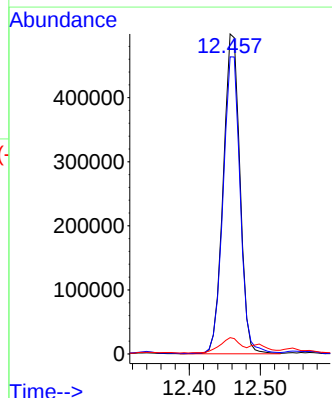
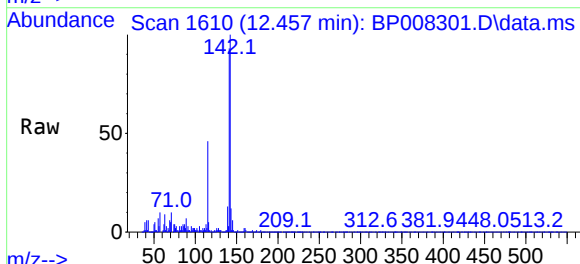
Manual Integrations  
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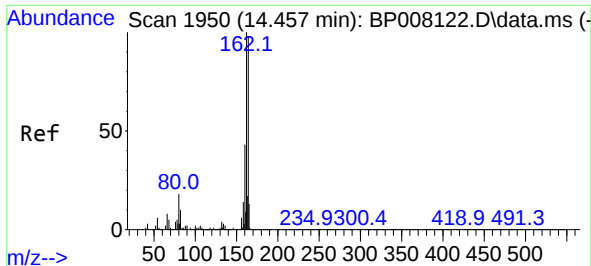
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#38  
1-Methylnaphthalene  
Concen: 86.754 ng  
RT: 12.457 min Scan# 1610  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

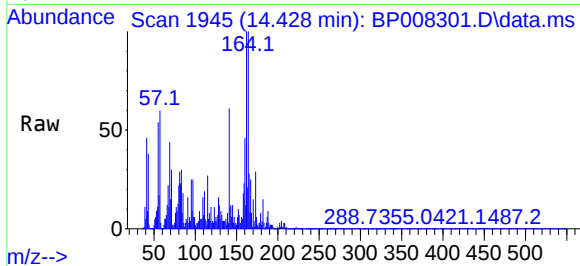
Tgt Ion:142 Resp: 812163  
Ion Ratio Lower Upper  
142 100  
141 92.9 74.2 111.4  
116 5.1 3.4 5.2





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.428 min Scan# 1945  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

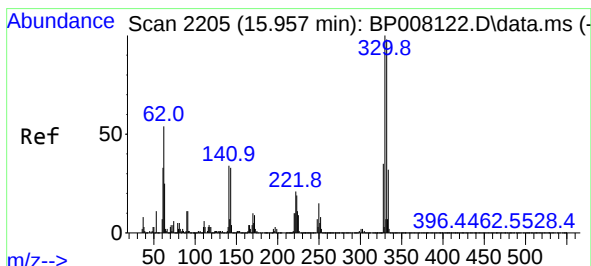
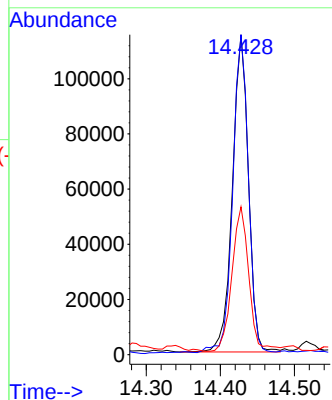
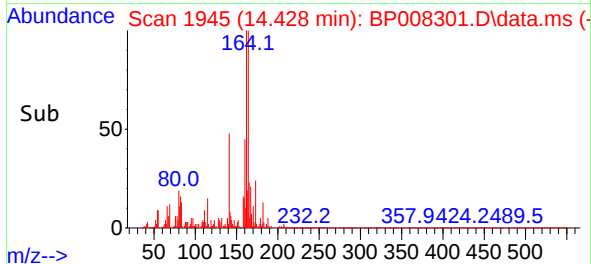
Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL



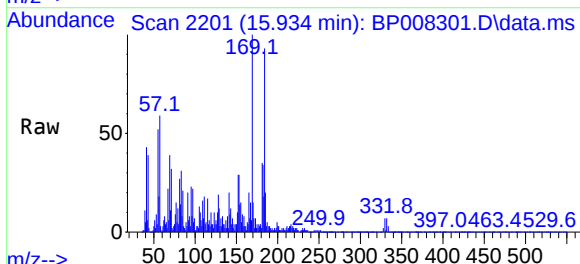
Tgt Ion:164 Resp: 17249  
Ion Ratio Lower Upper  
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162 100.0 81.9 122.9  
160 46.2 35.4 53.0

Manual Integrations  
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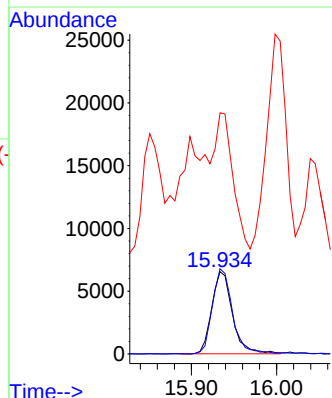
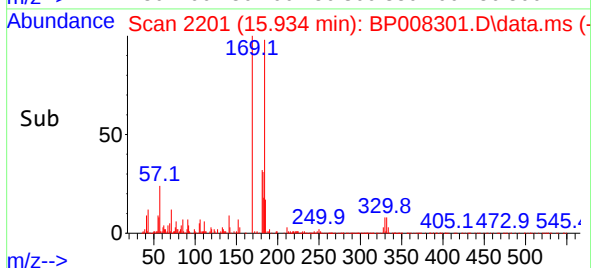
Reviewed By :Jagrut Upadhyay 12/09/2021  
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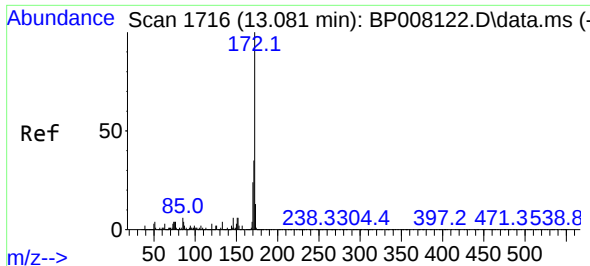


#42  
2,4,6-Tribromophenol  
Concen: 5.007 ng  
RT: 15.934 min Scan# 2201  
Delta R.T. 0.006 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42



Tgt Ion:330 Resp: 11038  
Ion Ratio Lower Upper  
330 100  
332 100.6 77.0 115.4  
141 143.3 28.4 42.6#





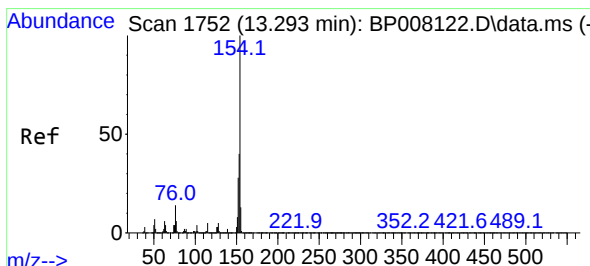
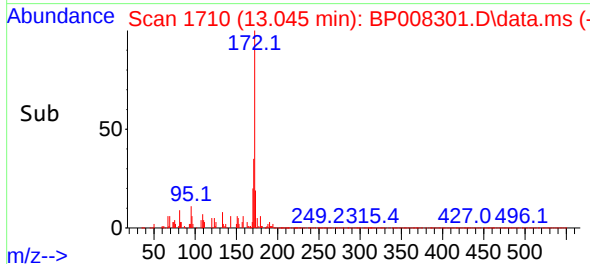
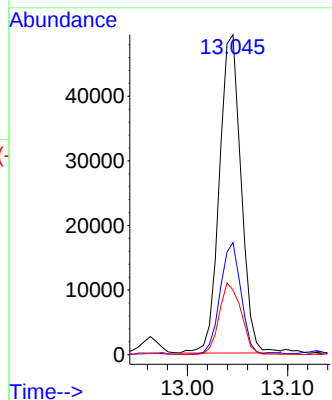
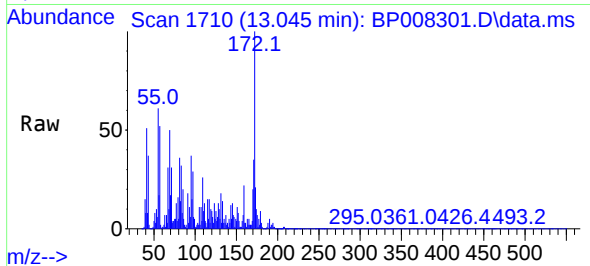
#45  
2-Fluorobiphenyl  
Concen: 6.243 ng  
RT: 13.045 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Tgt Ion:172 Resp: 74130  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.0 42.0  
170 20.2 18.9 28.3

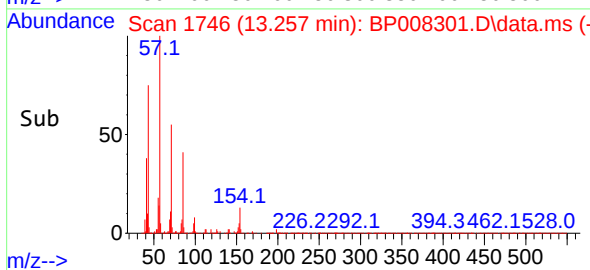
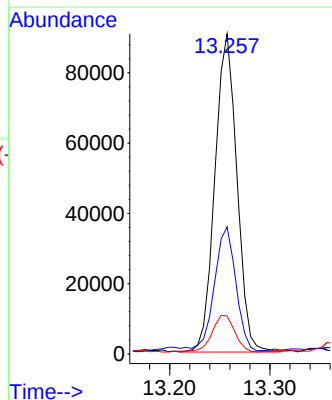
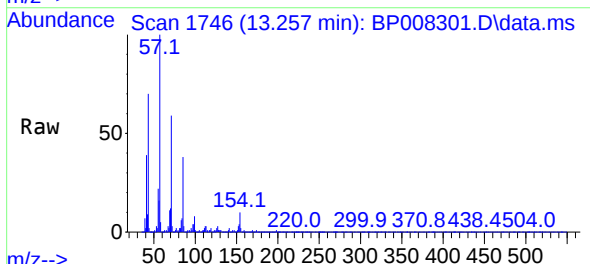
Manual Integrations  
APPROVED

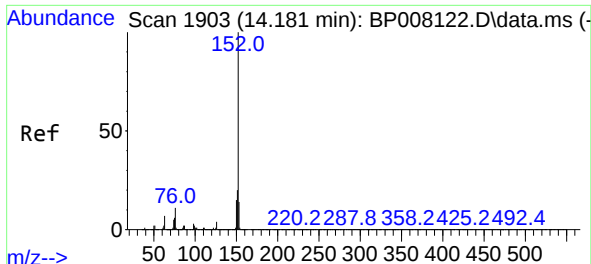
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#46  
1,1'-Biphenyl  
Concen: 11.047 ng  
RT: 13.257 min Scan# 1746  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Tgt Ion:154 Resp: 138249  
Ion Ratio Lower Upper  
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76 11.9 0.0 33.7





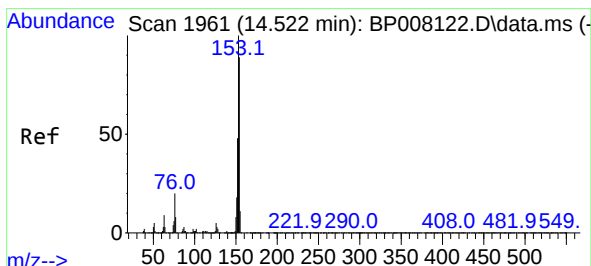
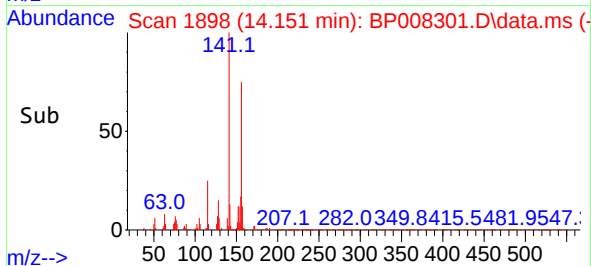
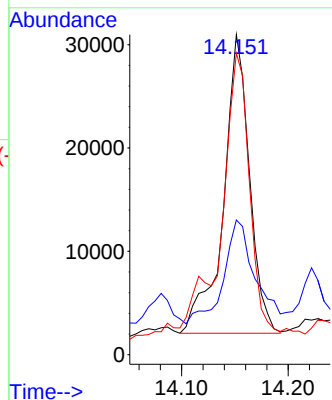
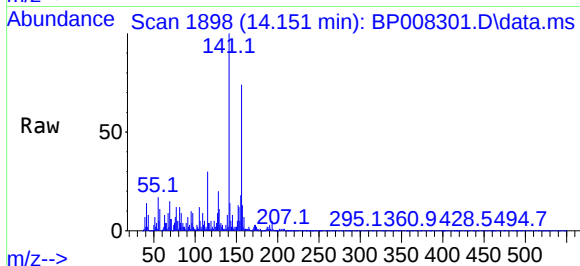
#49  
Acenaphthylene  
Concen: 3.244 ng  
RT: 14.151 min Scan# 1898  
Delta R.T. 0.006 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Tgt Ion:152 Resp: 49458  
Ion Ratio Lower Upper  
152 100  
151 42.1 16.2 24.4  
153 94.2 10.9 16.3

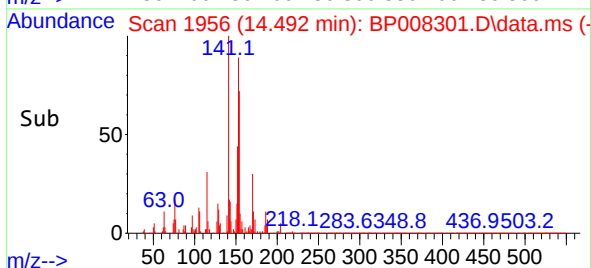
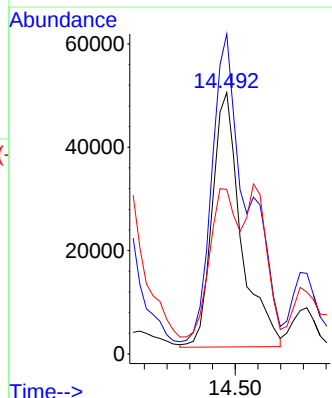
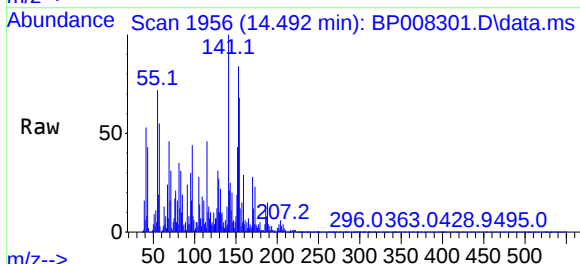
Manual Integrations  
APPROVED

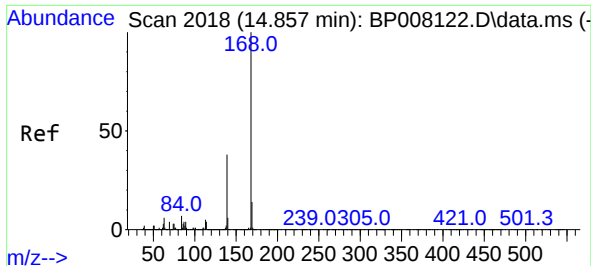
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#52  
Acenaphthene  
Concen: 9.545 ng  
RT: 14.492 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Tgt Ion:154 Resp: 86734  
Ion Ratio Lower Upper  
154 100  
153 122.5 90.3 135.5  
152 63.0 43.3 64.9





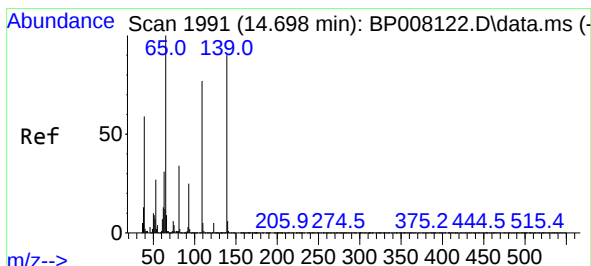
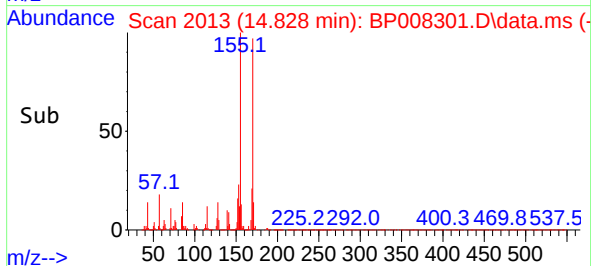
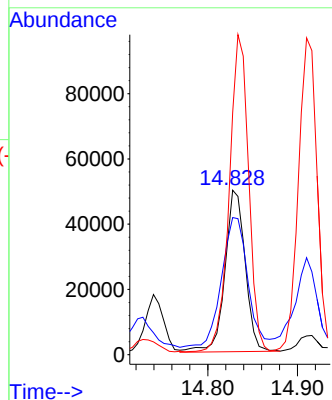
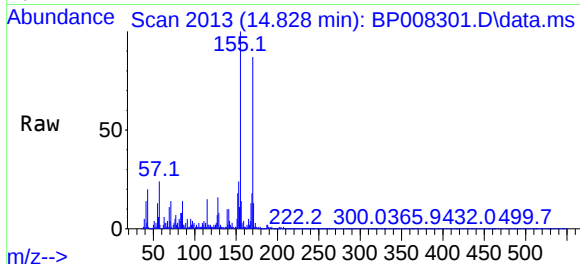
#55  
Dibenzenofuran  
Concen: 4.998 ng  
RT: 14.828 min Scan# 2018  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Tgt Ion:168 Resp: 7761  
Ion Ratio Lower Upper  
168 100  
139 83.3 30.6 46.0  
169 147.1 11.0 16.4

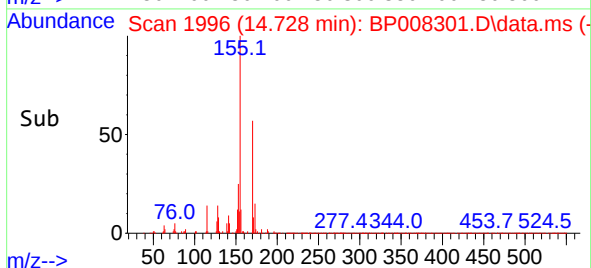
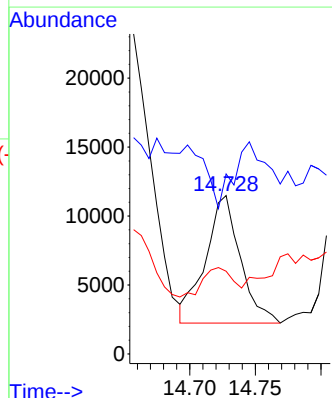
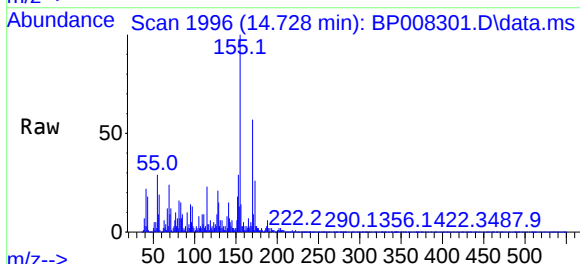
Manual Integrations  
APPROVED

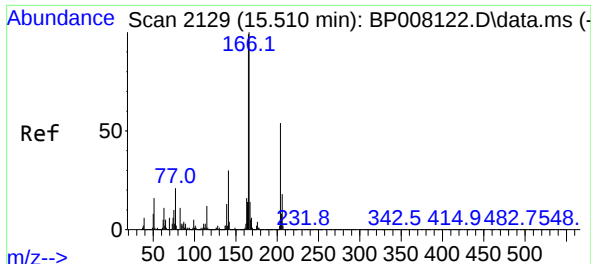
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#56  
4-Nitrophenol  
Concen: 8.203 ng  
RT: 14.728 min Scan# 1996  
Delta R.T. 0.041 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

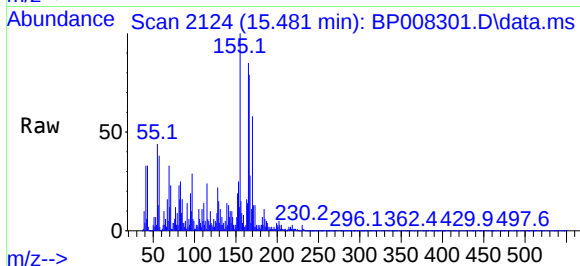
Tgt Ion:139 Resp: 17128  
Ion Ratio Lower Upper  
139 100  
109 113.7 65.9 105.9#  
65 52.3 91.9 131.9#





#58  
Fluorene  
Concen: 12.478 ng  
RT: 15.481 min Scan# 2124  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

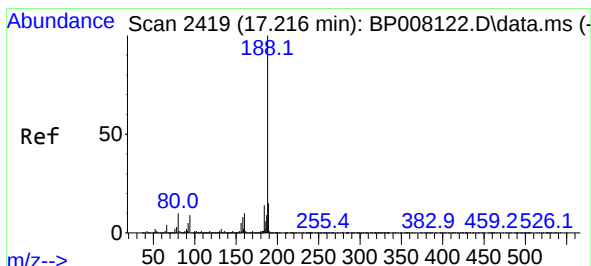
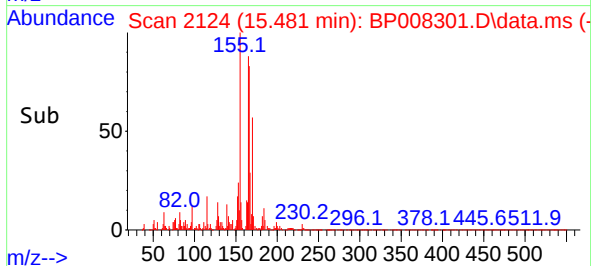
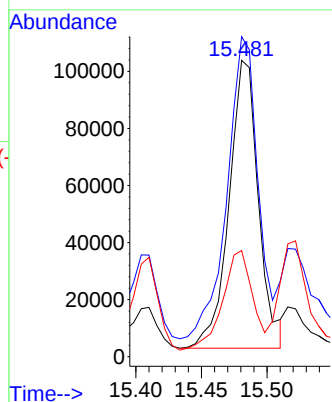
Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL



Tgt Ion:166 Resp: 157420  
Ion Ratio Lower Upper  
166 100  
165 108.0 79.4 119.2  
167 35.8 10.9 16.3

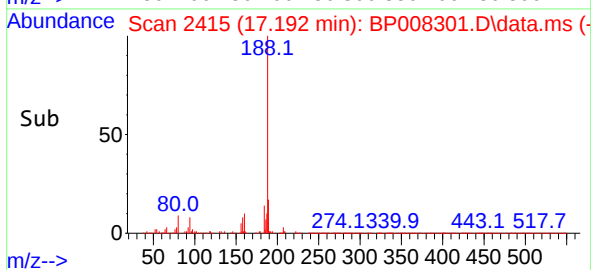
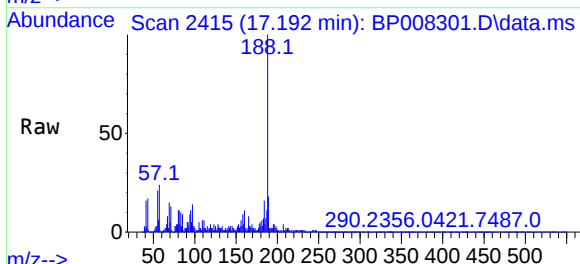
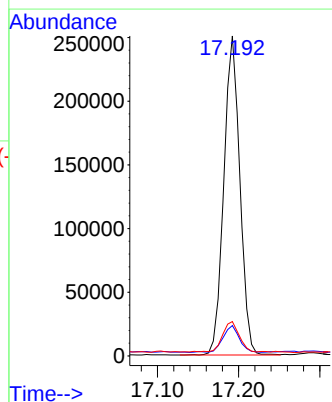
Manual Integrations  
APPROVED

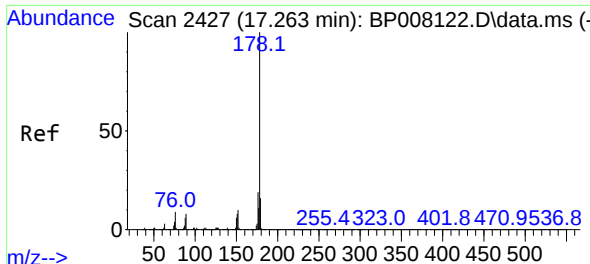
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.192 min Scan# 2415  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Tgt Ion:188 Resp: 345104  
Ion Ratio Lower Upper  
188 100  
94 9.5 7.2 10.8  
80 10.8 8.2 12.4





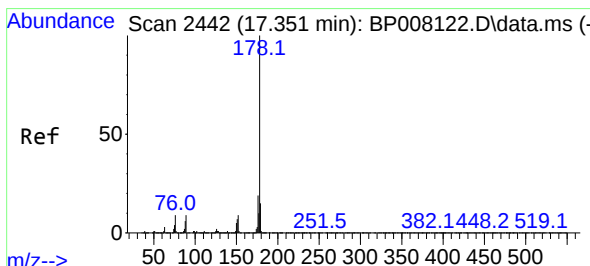
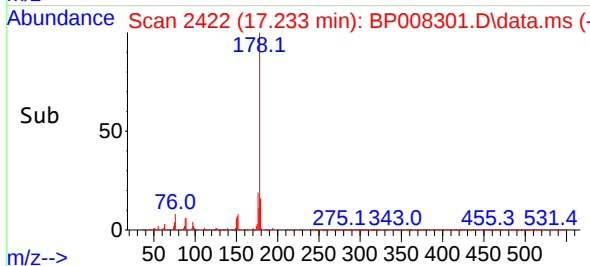
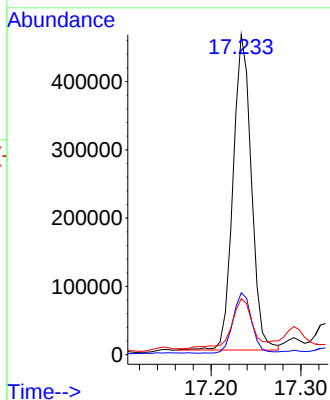
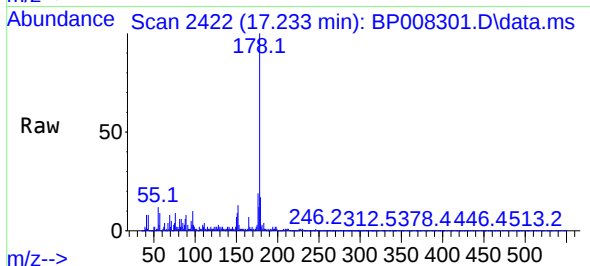
#71  
Phenanthrene  
Concen: 35.951 ng  
RT: 17.233 min Scan# 2427  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL

Tgt Ion:178 Resp: 655060  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.3 22.9  
179 17.5 12.5 18.7

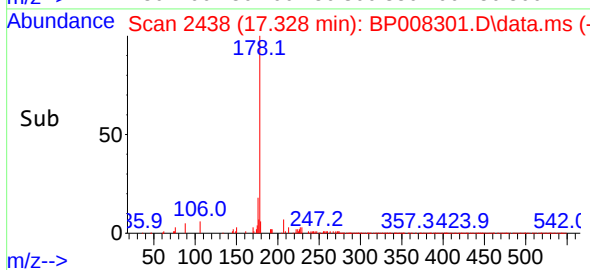
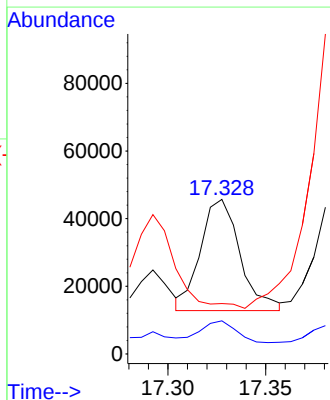
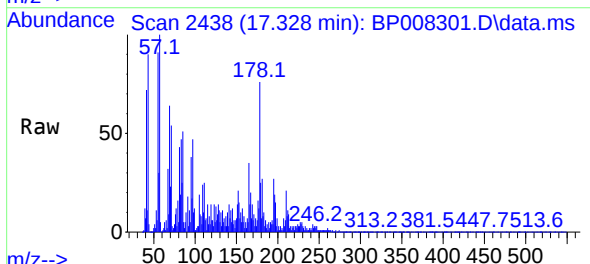
Manual Integrations  
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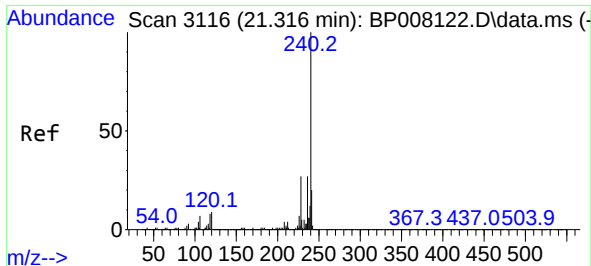
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#72  
Anthracene  
Concen: 2.566 ng m  
RT: 17.328 min Scan# 2438  
Delta R.T. 0.000 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

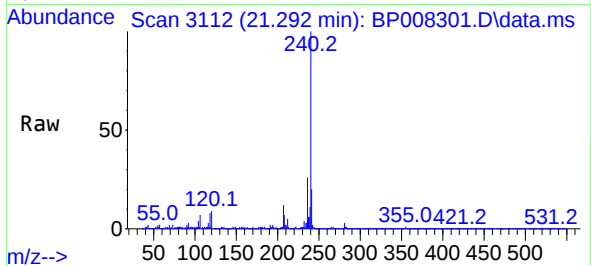
Tgt Ion:178 Resp: 46403  
Ion Ratio Lower Upper  
178 100  
176 21.4 15.1 22.7  
179 32.7 12.3 18.5#





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.292 min Scan# 3116  
Delta R.T. -0.006 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

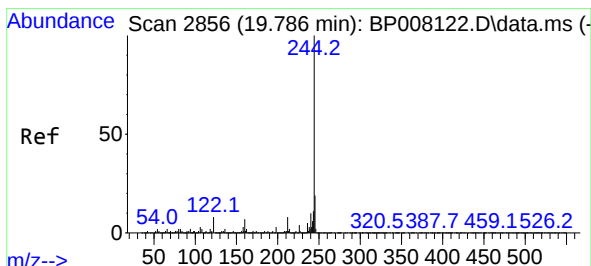
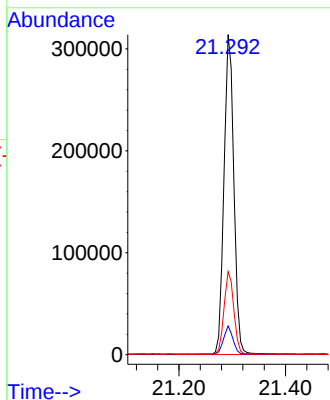
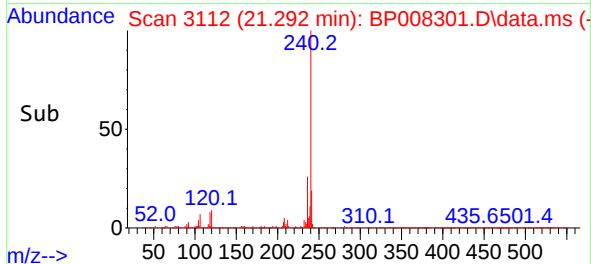
Instrument :  
BNA\_P  
ClientSampleId :  
SB-5(7.5-8)DL



Tgt Ion:240 Resp: 40371  
Ion Ratio Lower Upper  
240 100  
120 9.0 7.3 10.9  
236 25.9 21.4 32.2

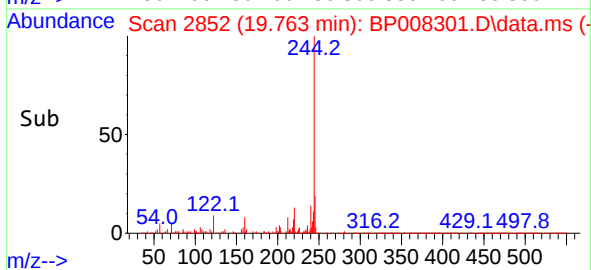
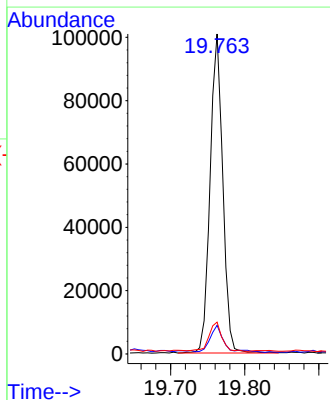
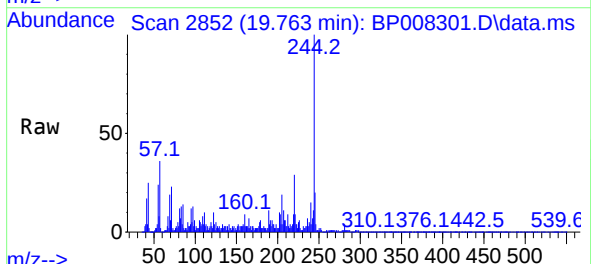
Manual Integrations  
APPROVED

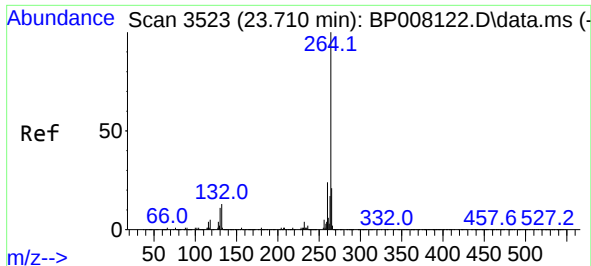
Reviewed By :Jagrut Upadhyay 12/09/2021  
Supervised By :mohammad ahmed 12/15/2021



#79  
Terphenyl-d14  
Concen: 6.210 ng  
RT: 19.763 min Scan# 2852  
Delta R.T. -0.006 min  
Lab File: BP008301.D  
Acq: 09 Dec 2021 03:42

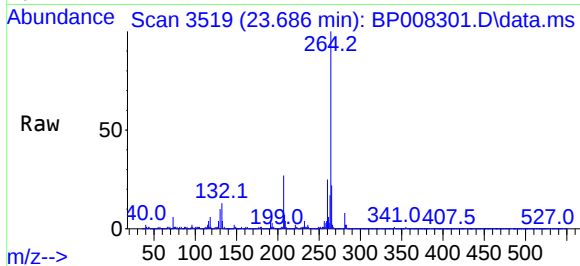
Tgt Ion:244 Resp: 119961  
Ion Ratio Lower Upper  
244 100  
212 9.0 6.0 9.0  
122 10.0 6.6 9.8#





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.686 min Scan# 3519  
 Delta R.T. 0.000 min  
 Lab File: BP008301.D  
 Acq: 09 Dec 2021 03:42

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SB-5(7.5-8)DL



Tgt Ion:264 Resp: 453138  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 19.4 29.2  
 265 22.1 17.6 26.4

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/09/2021  
 Supervised By :mohammad ahmed 12/15/2021

