

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032222\  
 Data File : BM034319.D  
 Acq On : 22 Mar 2022 20:39  
 Operator : CG/JU  
 Sample : N1977-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-14-20220315-15.0-16.0

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/23/2022  
 Supervised By : Jagrut Upadhyay 03/23/2022

Quant Time: Mar 23 05:06:43 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 16 02:38:26 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.937  | 152  | 158303   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.748 | 136  | 630563   | 20.000 | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.578 | 164  | 385843   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.319 | 188  | 750763   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.489 | 240  | 770346   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 23.906 | 264  | 847330   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.490  | 112  | 861569   | 97.637 | ng    | -0.01    |
| 7) Phenol-d6                | 7.096  | 99   | 1103412  | 87.335 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.101  | 82   | 696949   | 53.813 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.060 | 330  | 407616   | 78.378 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.207 | 172  | 1347007  | 47.705 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.936 | 244  | 1850696  | 41.745 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 20) 3+4-Methylphenols       | 8.701  | 107  | 31410    | 2.581  | ng    | 87       |
| 31) Naphthalene             | 10.801 | 128  | 261926   | 7.973  | ng    | 100      |
| 38) 1-Methylnaphthalene     | 12.625 | 142  | 67183    | 2.930  | ng    | 95       |
| 49) Acenaphthylene          | 14.301 | 152  | 145330   | 4.129  | ng    | 98       |
| 52) Acenaphthene            | 14.642 | 154  | 173063   | 7.300  | ng    | 98       |
| 71) Phenanthrene            | 17.360 | 178  | 336639   | 8.007  | ng    | 99       |
| 72) Anthracene              | 17.448 | 178  | 127815   | 3.123  | ng    | 97       |
| 75) Fluoranthene            | 19.377 | 202  | 1061217  | 22.515 | ng    | 99       |
| 78) Pyrene                  | 19.736 | 202  | 1623946  | 29.921 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.477 | 228  | 878603   | 18.070 | ng    | 94       |
| 83) Chrysene                | 21.530 | 228  | 777996   | 15.669 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.412 | 276  | 555522   | 10.192 | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 23.171 | 252  | 1014332m | 20.019 | ng    |          |
| 89) Benzo(k)fluoranthene    | 23.212 | 252  | 367708m  | 6.851  | ng    |          |
| 90) Benzo(a)pyrene          | 23.800 | 252  | 923218   | 21.493 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 26.424 | 278  | 128446   | 2.906  | ng    | # 83     |
| 92) Benzo(g,h,i)perylene    | 27.183 | 276  | 620123   | 13.556 | ng    | 100      |
| -----                       |        |      |          |        |       |          |

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

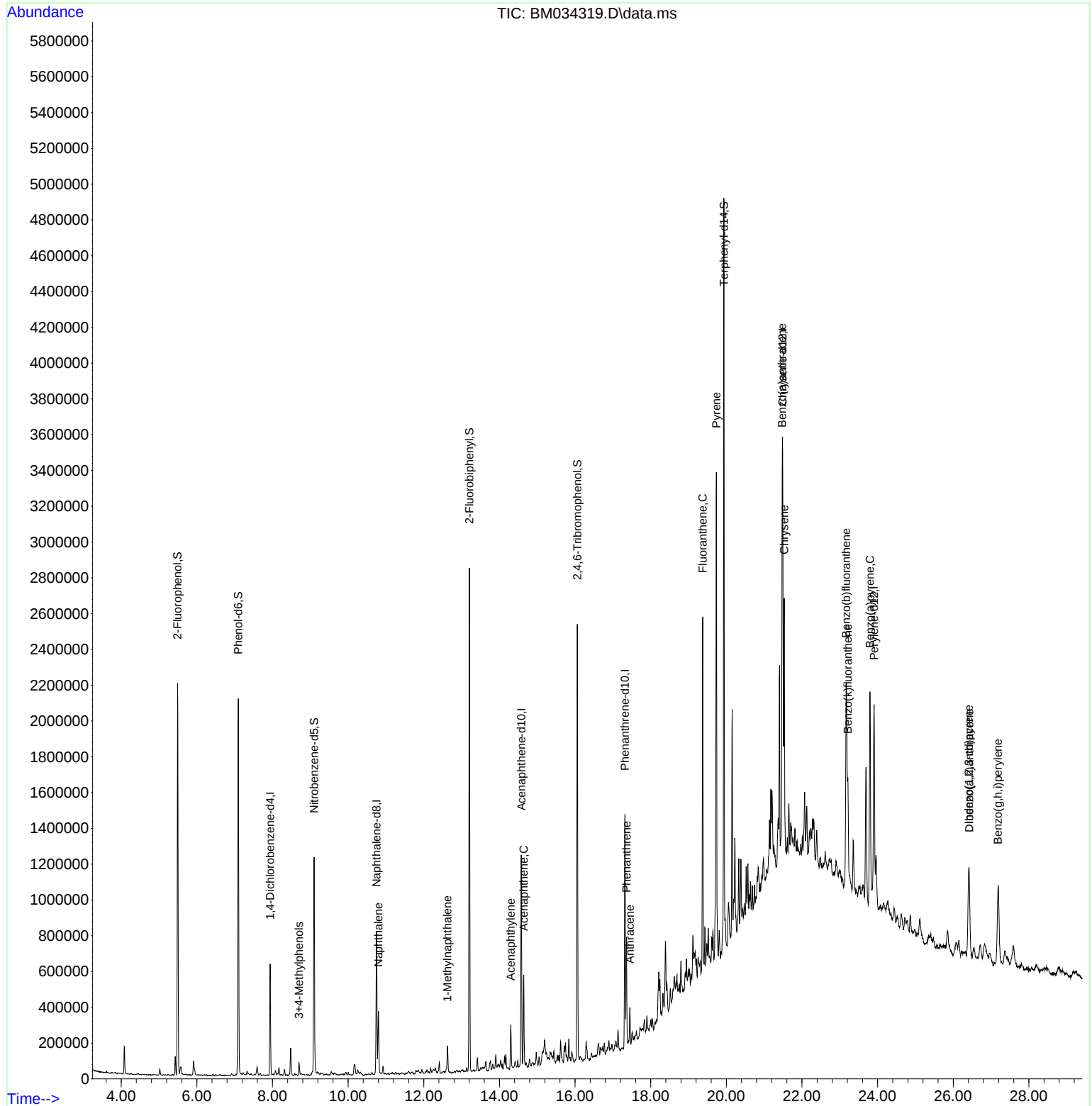
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032222\  
Data File : BM034319.D  
Acq On : 22 Mar 2022 20:39  
Operator : CG/JU  
Sample : N1977-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

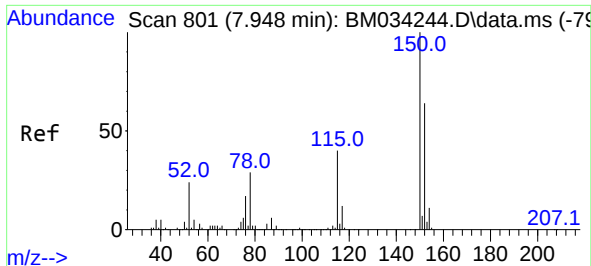
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0

Quant Time: Mar 23 05:06:43 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 16 02:38:26 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

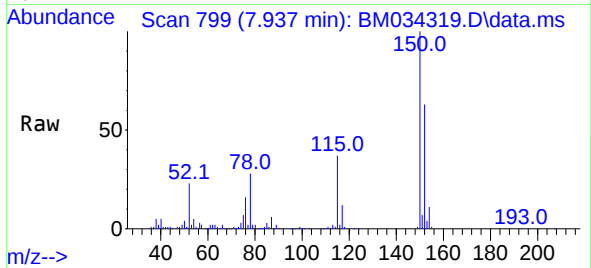
Reviewed By : Christian Giraldo 03/23/2022  
Supervised By : Jagrut Upadhyay 03/23/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.937 min Scan# 79  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

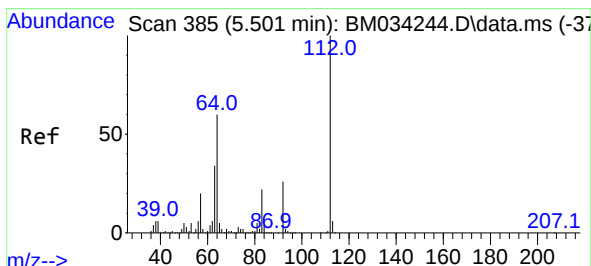
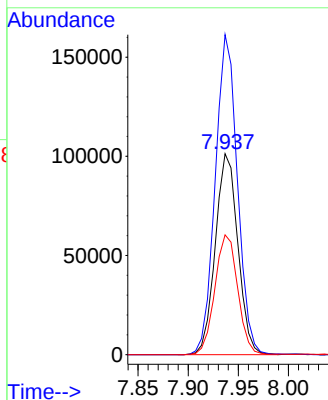
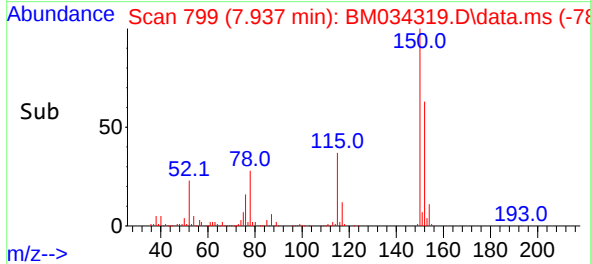
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



Tgt Ion:152 Resp: 15830  
Ion Ratio Lower Upper  
152 100  
150 159.3 125.4 188.2  
115 59.6 50.1 75.1

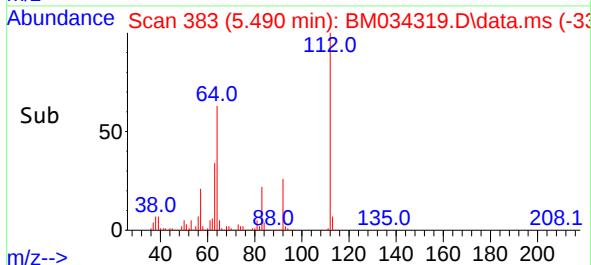
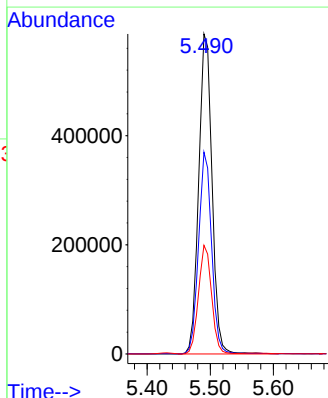
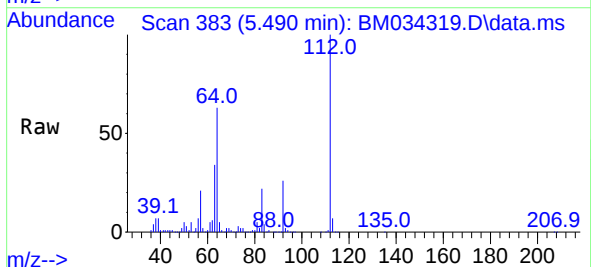
Manual Integrations  
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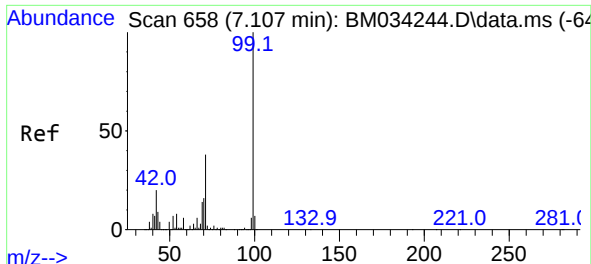
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#5  
2-Fluorophenol  
Concen: 97.637 ng  
RT: 5.490 min Scan# 383  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

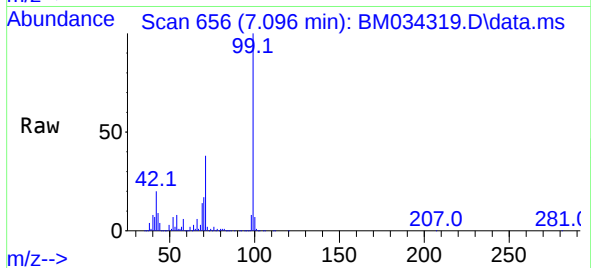
Tgt Ion:112 Resp: 861569  
Ion Ratio Lower Upper  
112 100  
64 63.0 47.9 71.9  
63 34.0 27.1 40.7





#7  
Phenol-d6  
Concen: 87.335 ng  
RT: 7.096 min Scan# 611  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

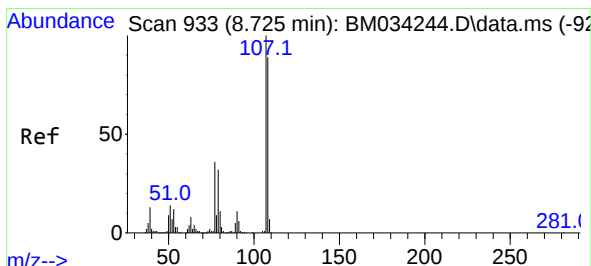
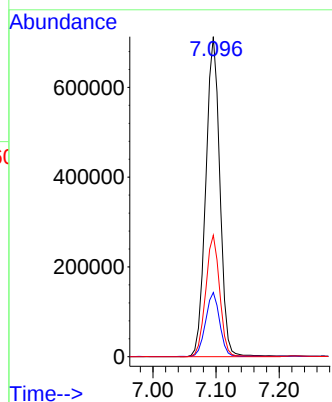
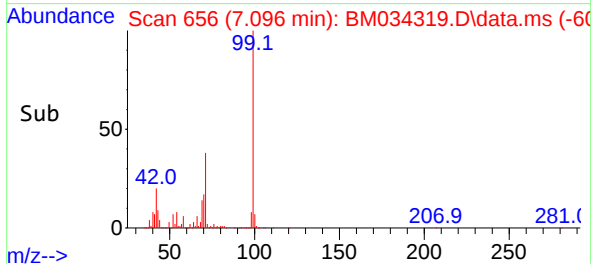
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



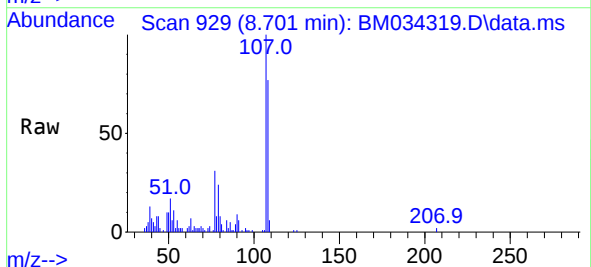
Tgt Ion: 99 Resp: 110341  
Ion Ratio Lower Upper  
99 100  
42 20.0 15.6 23.4  
71 38.0 30.6 46.0

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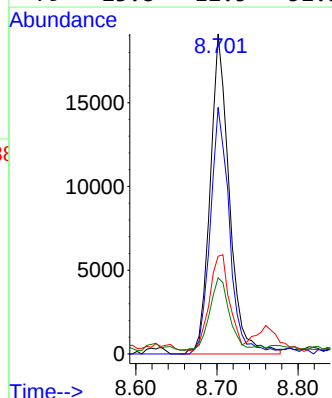
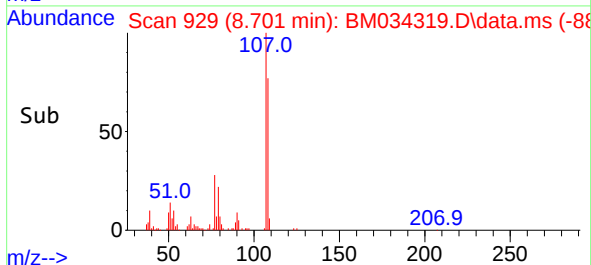
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

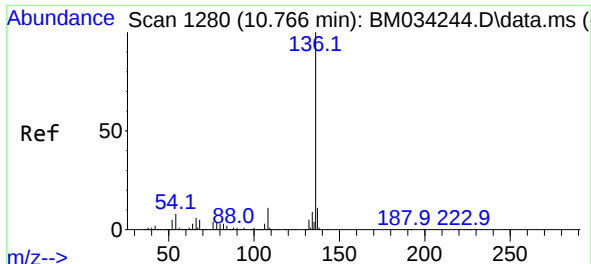


#20  
3+4-Methylphenols  
Concen: 2.581 ng  
RT: 8.701 min Scan# 929  
Delta R.T. -0.023 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



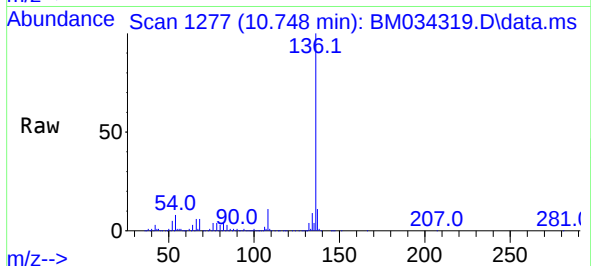
Tgt Ion:107 Resp: 31410  
Ion Ratio Lower Upper  
107 100  
108 77.0 69.2 109.2  
77 30.6 16.5 56.5  
79 23.8 12.5 52.5





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.748 min Scan# 1  
Delta R.T. -0.017 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

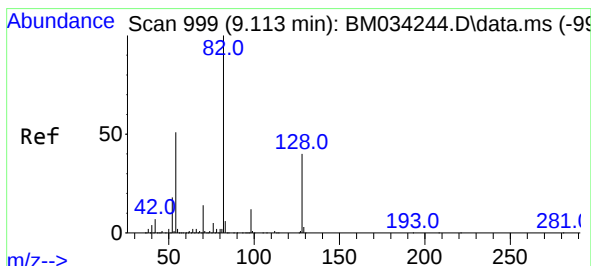
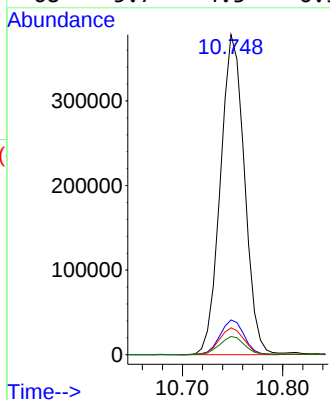
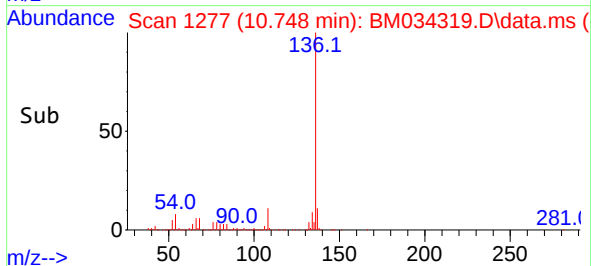
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



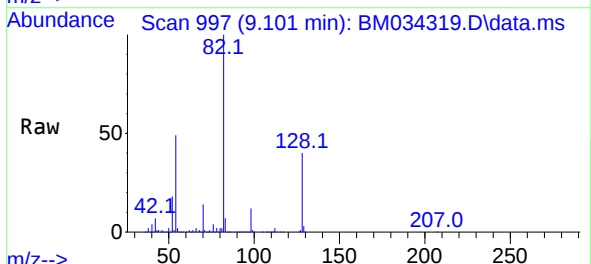
Tgt Ion:136 Resp: 63056  
Ion Ratio Lower Upper  
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137 10.9 8.6 13.0  
54 8.4 6.2 9.4  
68 5.7 4.3 6.5

Manual Integrations  
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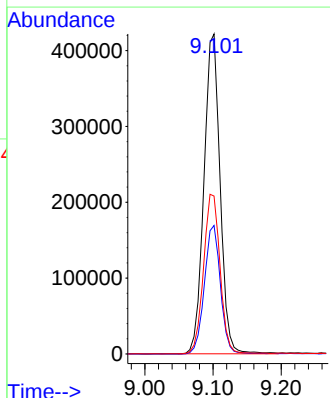
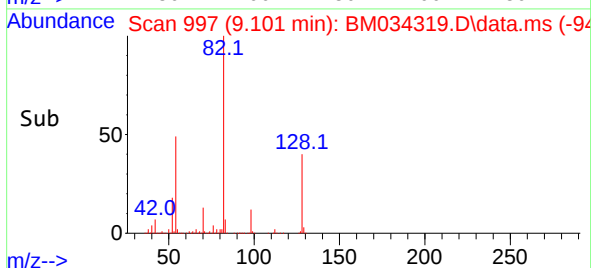
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

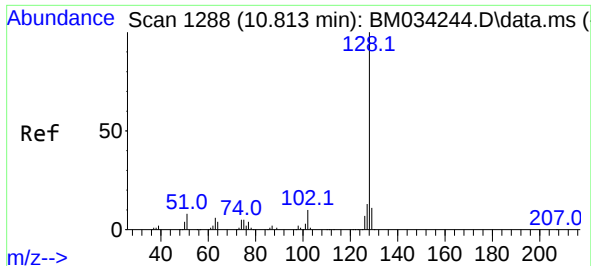


#23  
Nitrobenzene-d5  
Concen: 53.813 ng  
RT: 9.101 min Scan# 997  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



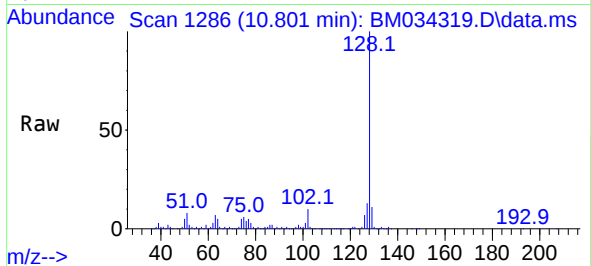
Tgt Ion: 82 Resp: 696949  
Ion Ratio Lower Upper  
82 100  
128 40.2 31.9 47.9  
54 49.3 40.6 61.0





#31  
Naphthalene  
Concen: 7.973 ng  
RT: 10.801 min Scan# 1286  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

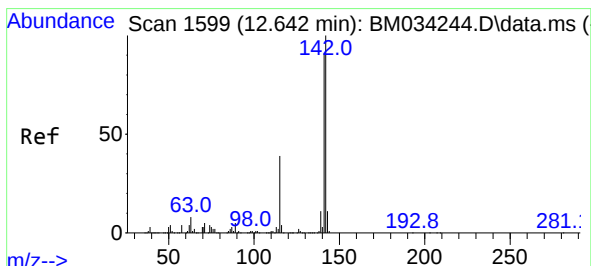
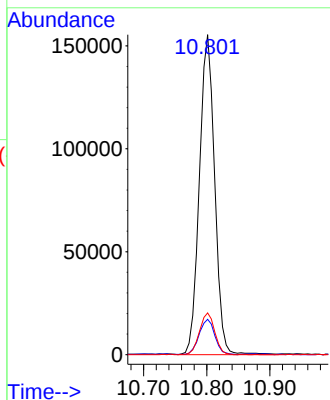
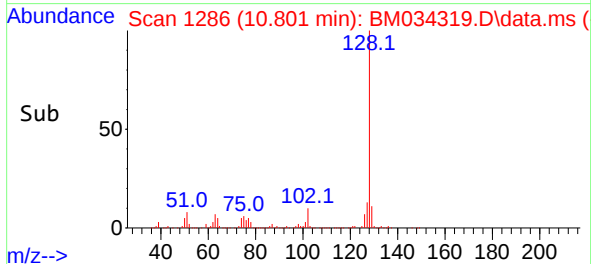
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



Tgt Ion:128 Resp: 261920  
Ion Ratio Lower Upper  
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129 11.0 8.8 13.2  
127 13.1 10.2 15.4

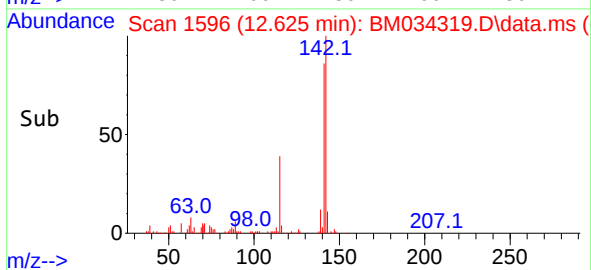
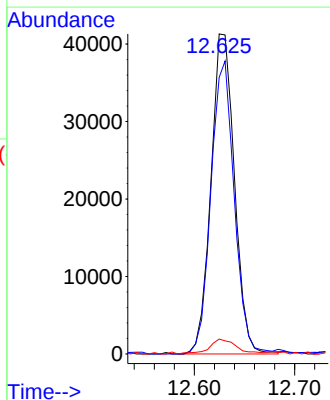
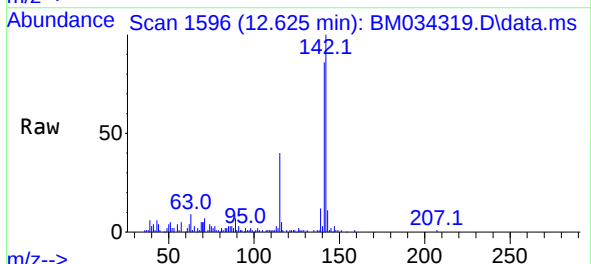
Manual Integrations  
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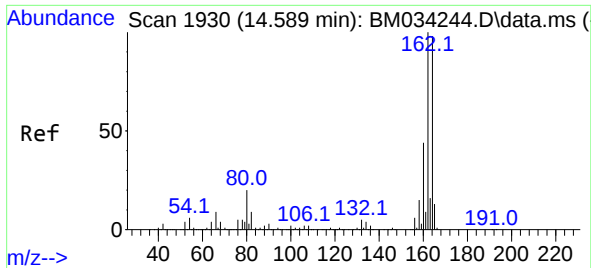
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#38  
1-Methylnaphthalene  
Concen: 2.930 ng  
RT: 12.625 min Scan# 1596  
Delta R.T. -0.017 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

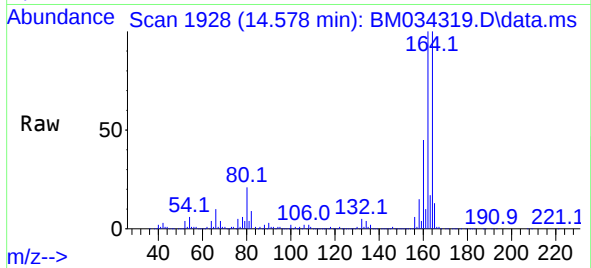
Tgt Ion:142 Resp: 67183  
Ion Ratio Lower Upper  
142 100  
141 86.4 73.0 109.6  
116 4.6 3.2 4.8





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.578 min Scan# 1930  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

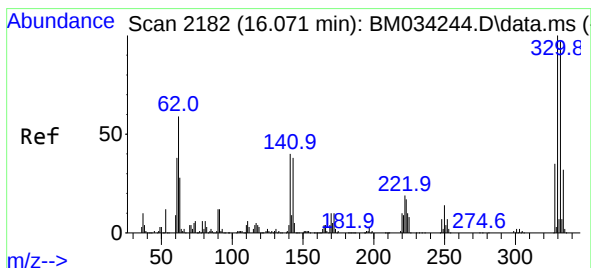
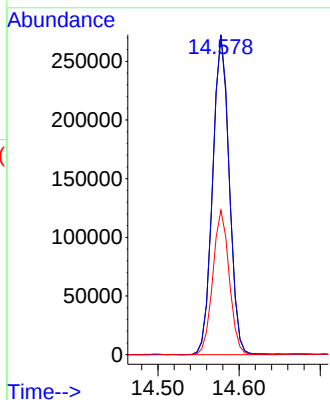
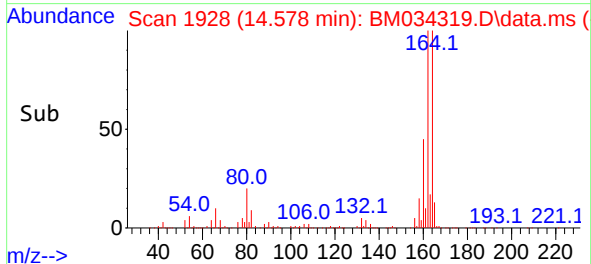
Instrument :  
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ClientSampleId :  
SB-14-20220315-15.0-16.0



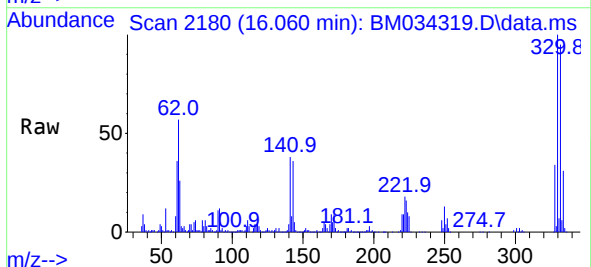
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Ion Ratio Lower Upper  
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162 100.3 81.6 122.4  
160 45.3 35.6 53.4

Manual Integrations  
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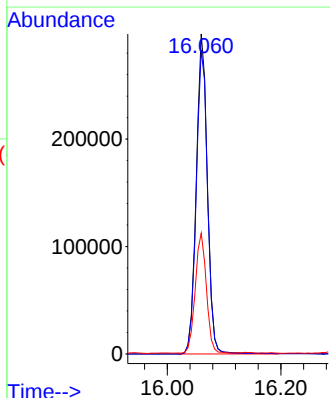
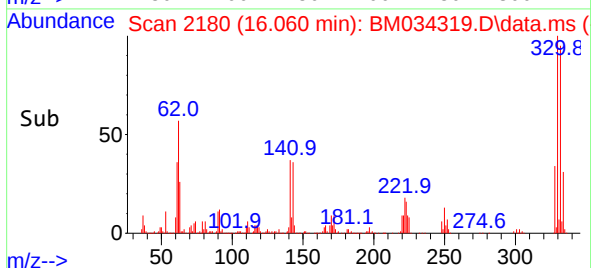
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

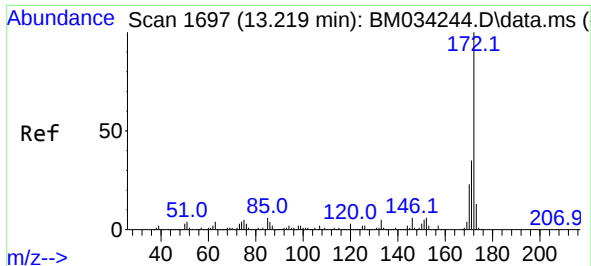


#42  
2,4,6-Tribromophenol  
Concen: 78.378 ng  
RT: 16.060 min Scan# 2180  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



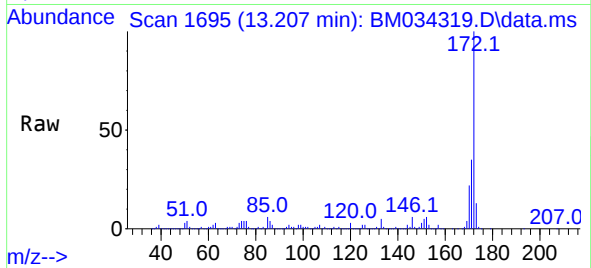
Tgt Ion:330 Resp: 407616  
Ion Ratio Lower Upper  
330 100  
332 96.0 78.2 117.4  
141 37.4 30.6 45.8





#45  
2-Fluorobiphenyl  
Concen: 47.705 ng  
RT: 13.207 min Scan# 1695  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

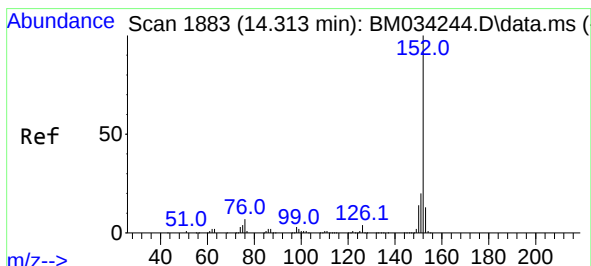
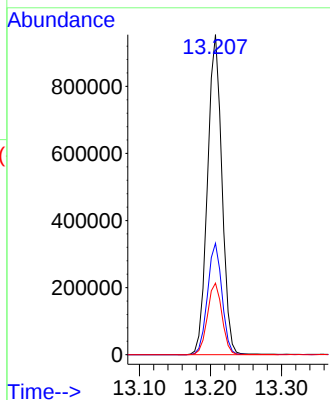
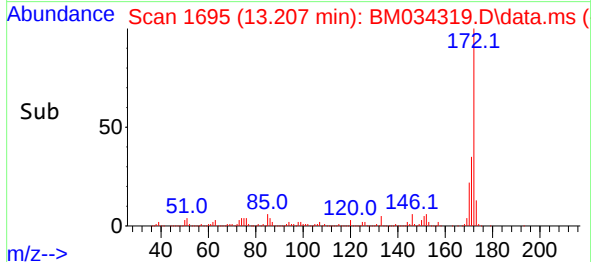
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



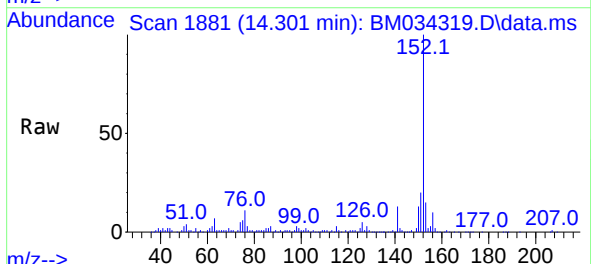
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Manual Integrations  
APPROVED

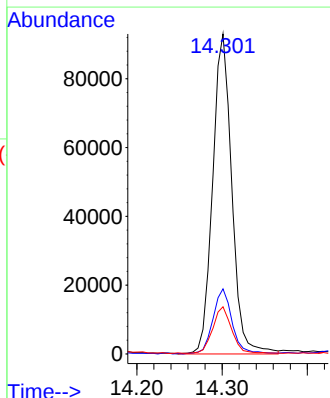
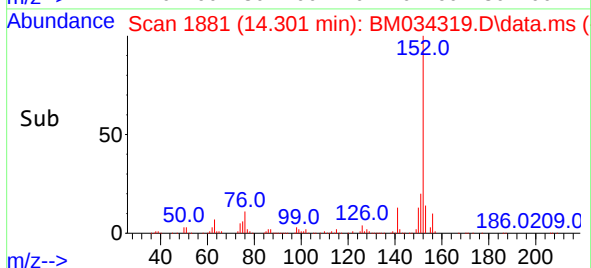
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Supervised By :Jagrut Upadhyay 03/23/2022

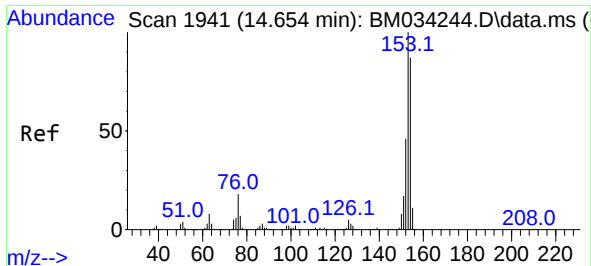


#49  
Acenaphthylene  
Concen: 4.129 ng  
RT: 14.301 min Scan# 1881  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



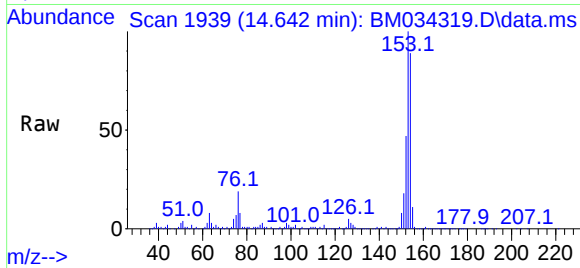
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Ion Ratio Lower Upper  
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151 20.4 15.9 23.9  
153 14.8 10.6 16.0





#52  
Acenaphthene  
Concen: 7.300 ng  
RT: 14.642 min Scan# 1941  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

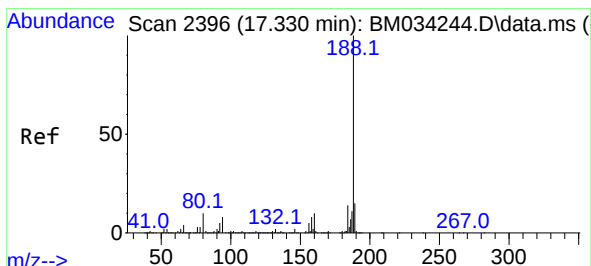
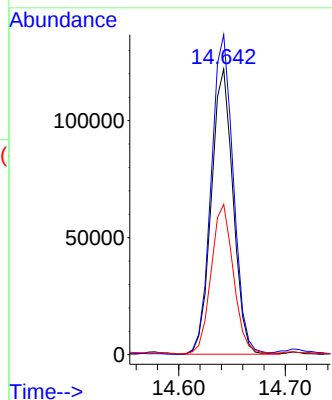
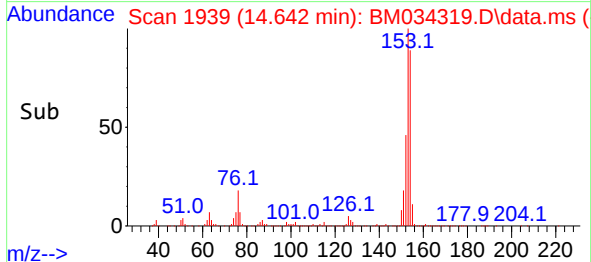
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



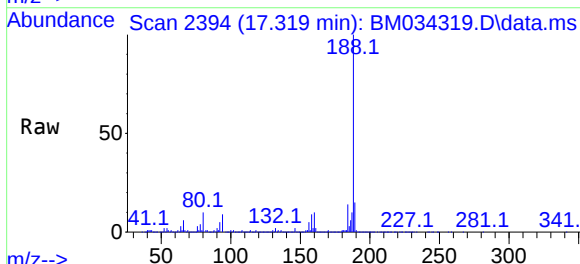
Tgt Ion:154 Resp: 173061  
Ion Ratio Lower Upper  
154 100  
153 112.1 91.8 137.8  
152 52.7 42.6 64.0

Manual Integrations  
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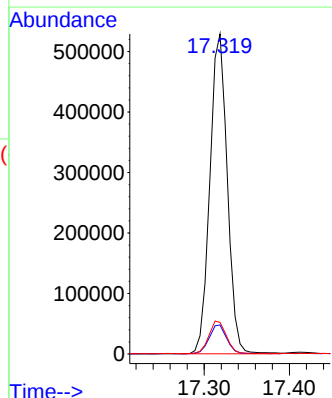
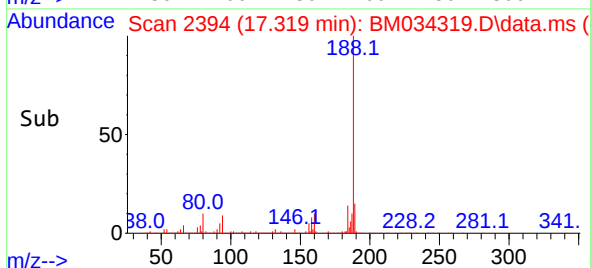
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

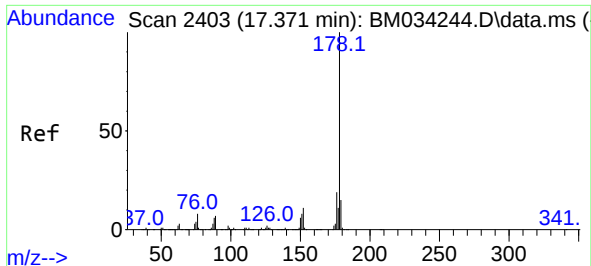


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.319 min Scan# 2394  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



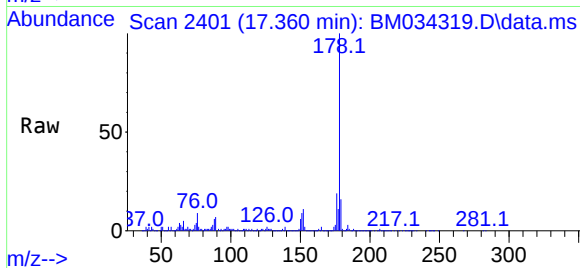
Tgt Ion:188 Resp: 750763  
Ion Ratio Lower Upper  
188 100  
94 9.1 6.6 9.8  
80 9.9 7.8 11.8





#71  
Phenanthrene  
Concen: 8.007 ng  
RT: 17.360 min Scan# 2403  
Delta R.T. -0.012 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

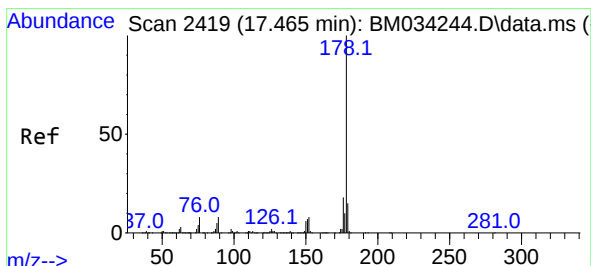
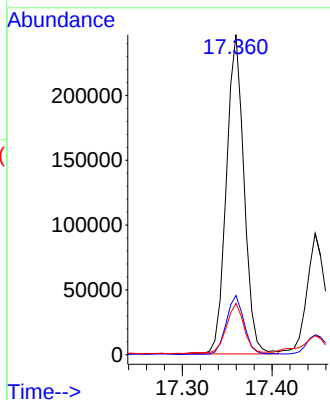
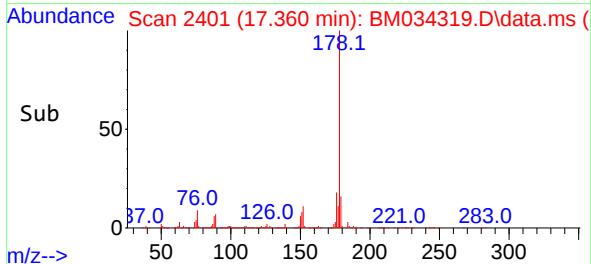
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



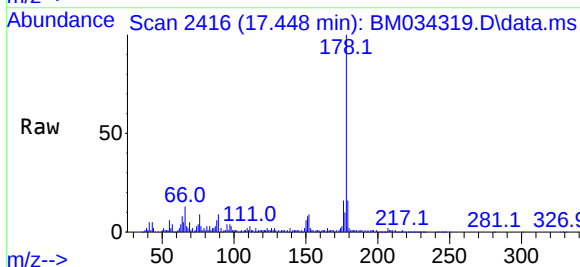
Tgt Ion:178 Resp: 336639  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.1 22.7  
179 16.0 12.2 18.4

Manual Integrations  
APPROVED

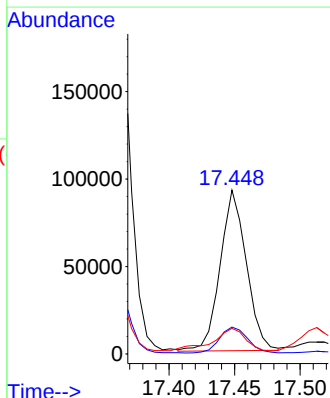
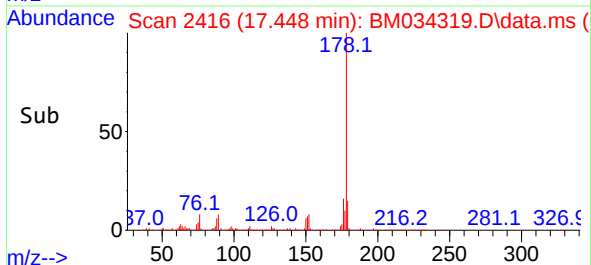
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

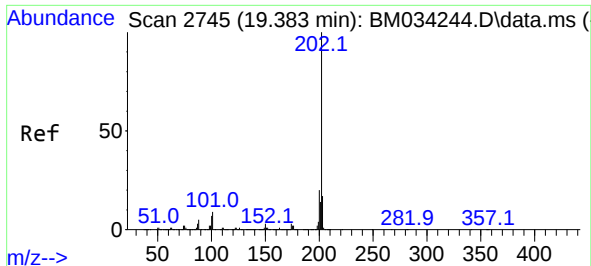


#72  
Anthracene  
Concen: 3.123 ng  
RT: 17.448 min Scan# 2416  
Delta R.T. -0.017 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



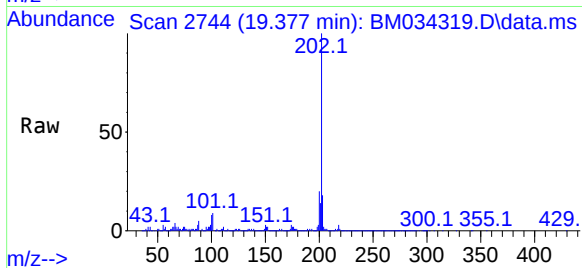
Tgt Ion:178 Resp: 127815  
Ion Ratio Lower Upper  
178 100  
176 16.4 14.6 22.0  
179 15.7 12.2 18.2





#75  
Fluoranthene  
Concen: 22.515 ng  
RT: 19.377 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

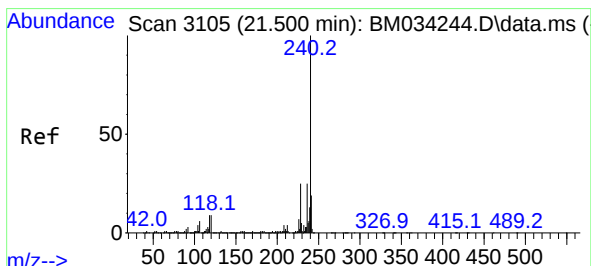
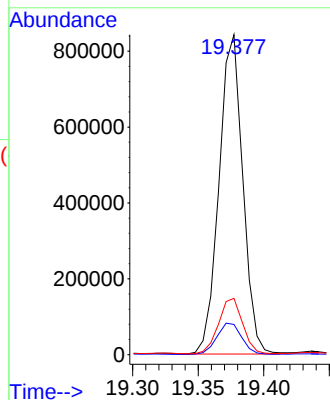
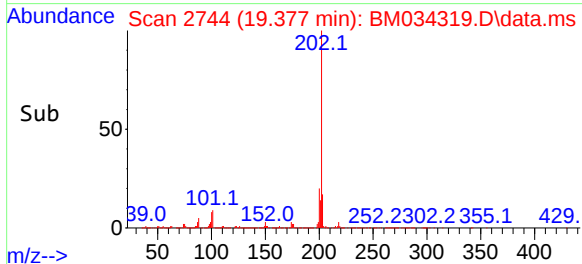
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



Tgt Ion:202 Resp: 106121  
Ion Ratio Lower Upper  
202 100  
101 9.5 0.0 29.4  
203 17.6 0.0 37.1

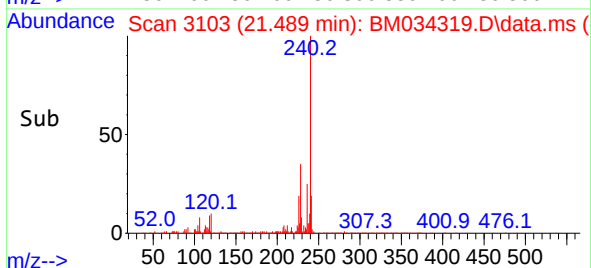
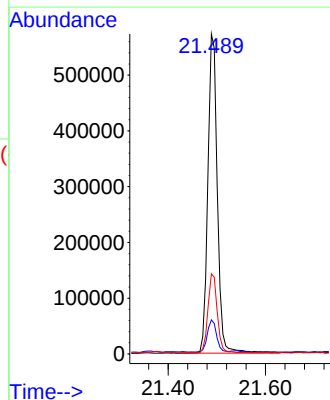
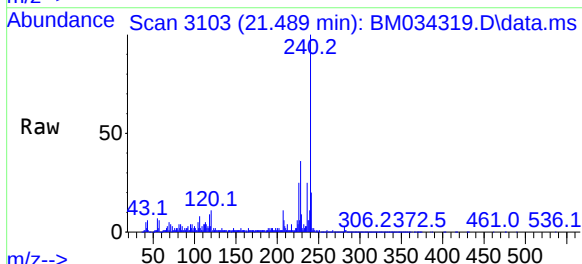
Manual Integrations  
APPROVED

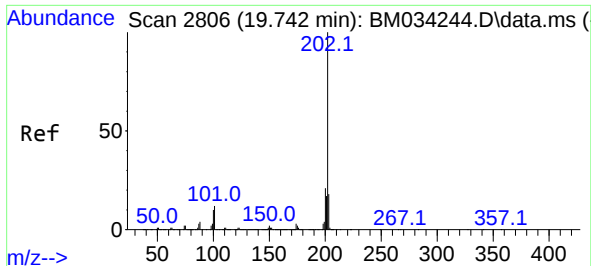
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.489 min Scan# 3103  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

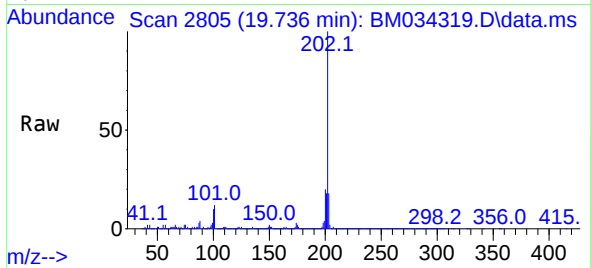
Tgt Ion:240 Resp: 770346  
Ion Ratio Lower Upper  
240 100  
120 10.6 7.3 10.9  
236 25.1 20.2 30.2





#78  
 Pyrene  
 Concen: 29.921 ng  
 RT: 19.736 min Scan# 2805  
 Delta R.T. -0.006 min  
 Lab File: BM034319.D  
 Acq: 22 Mar 2022 20:39

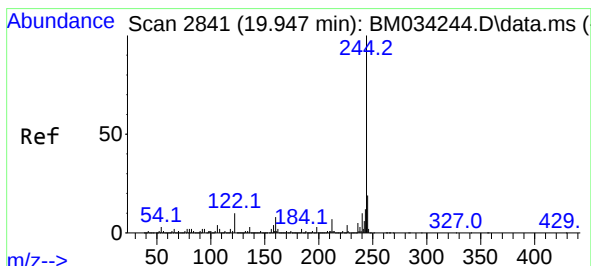
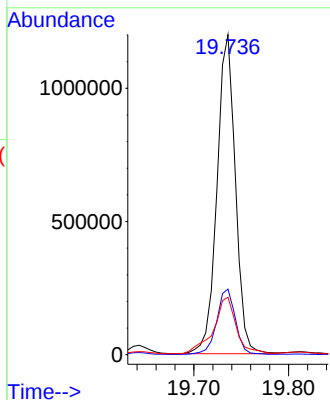
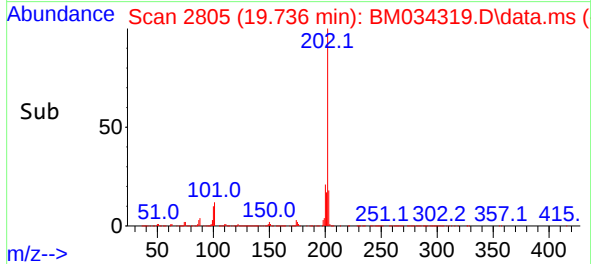
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-14-20220315-15.0-16.0



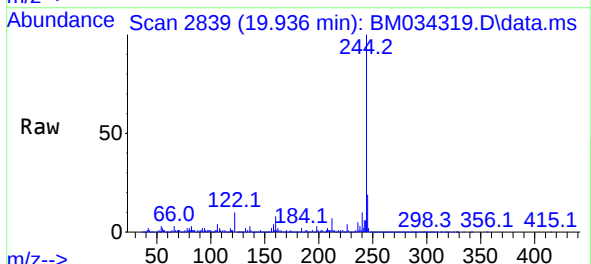
Tgt Ion:202 Resp: 1623940  
 Ion Ratio Lower Upper  
 202 100  
 200 20.5 16.6 24.8  
 203 18.0 14.1 21.1

Manual Integrations  
 APPROVED

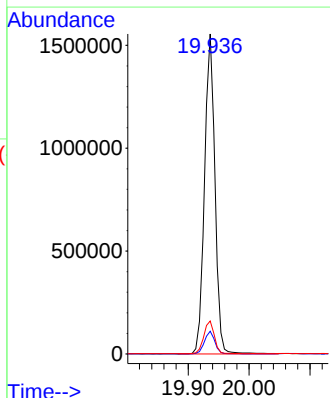
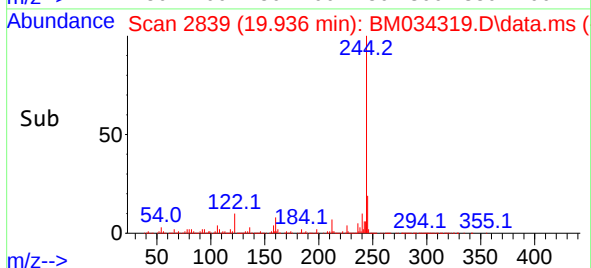
Reviewed By :Christian Giraldo 03/23/2022  
 Supervised By :Jagrut Upadhyay 03/23/2022

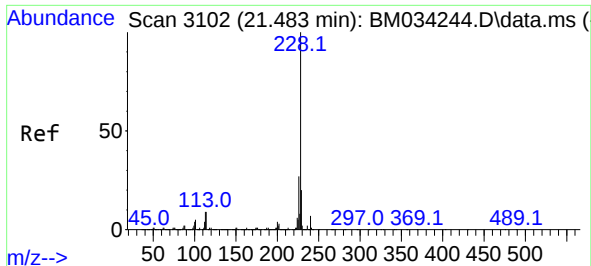


#79  
 Terphenyl-d14  
 Concen: 41.745 ng  
 RT: 19.936 min Scan# 2839  
 Delta R.T. -0.011 min  
 Lab File: BM034319.D  
 Acq: 22 Mar 2022 20:39



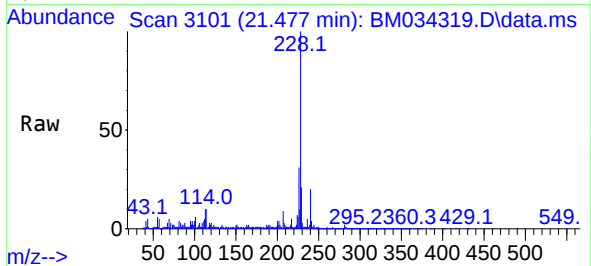
Tgt Ion:244 Resp: 1850696  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.9 8.9  
 122 10.3 7.8 11.8





#81  
Benzo(a)anthracene  
Concen: 18.070 ng  
RT: 21.477 min Scan# 3102  
Delta R.T. -0.006 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

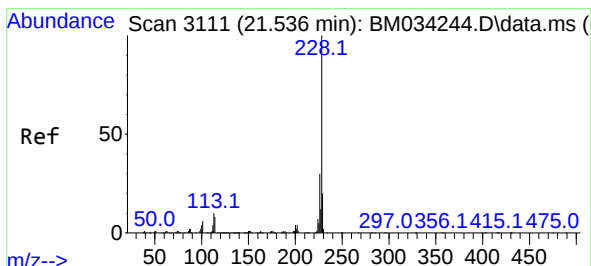
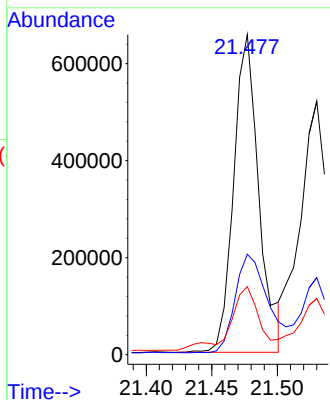
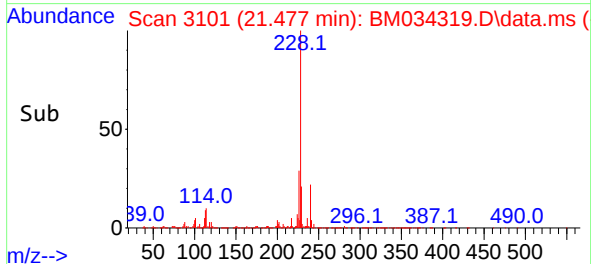
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



Tgt Ion:228 Resp: 878600  
Ion Ratio Lower Upper  
228 100  
226 31.4 21.6 32.4  
229 21.2 15.8 23.6

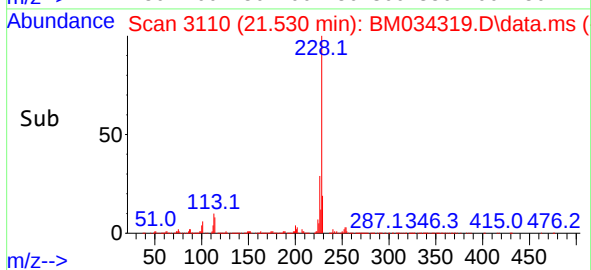
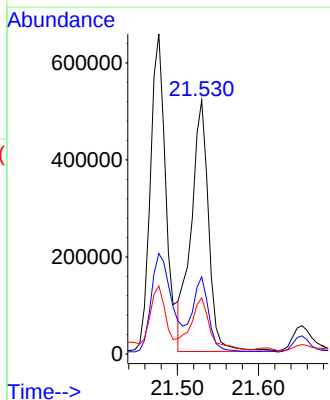
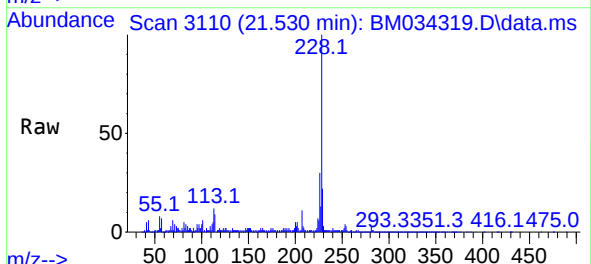
Manual Integrations  
APPROVED

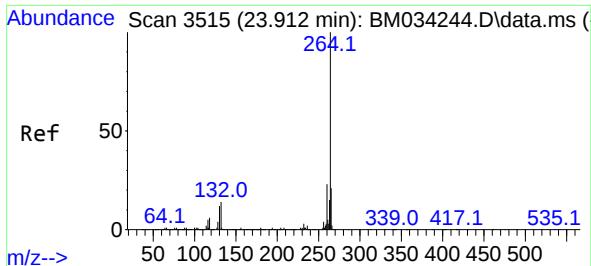
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#83  
Chrysene  
Concen: 15.669 ng  
RT: 21.530 min Scan# 3110  
Delta R.T. -0.006 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

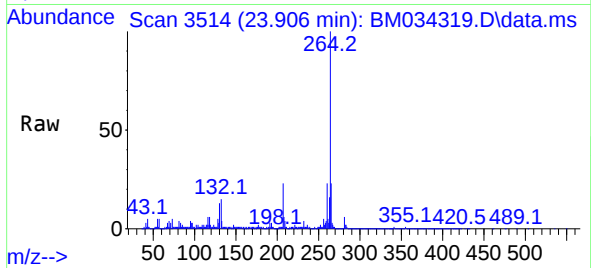
Tgt Ion:228 Resp: 777996  
Ion Ratio Lower Upper  
228 100  
226 30.4 23.8 35.6  
229 22.2 15.6 23.4





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.906 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

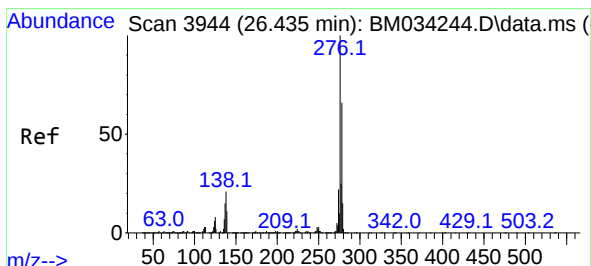
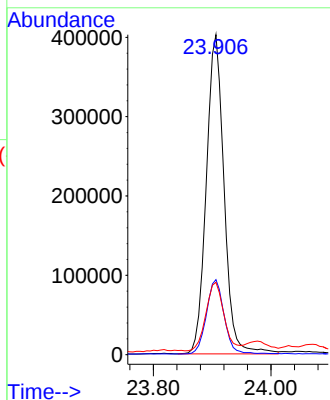
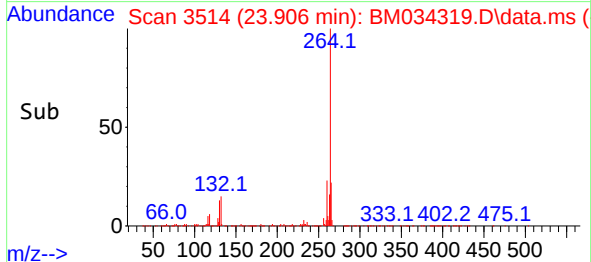
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



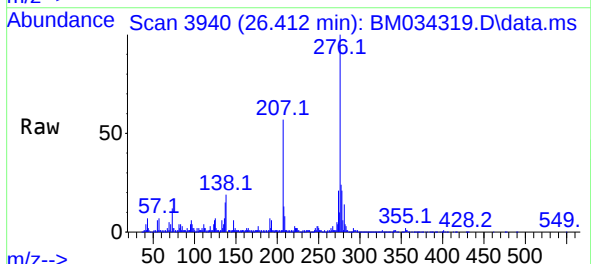
Tgt Ion:264 Resp: 847330  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.6 28.0  
265 22.6 17.6 26.4

Manual Integrations  
APPROVED

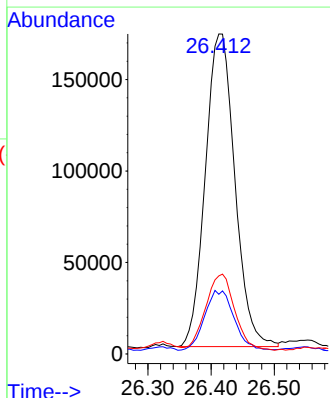
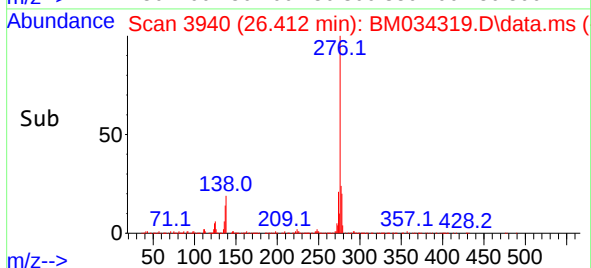
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

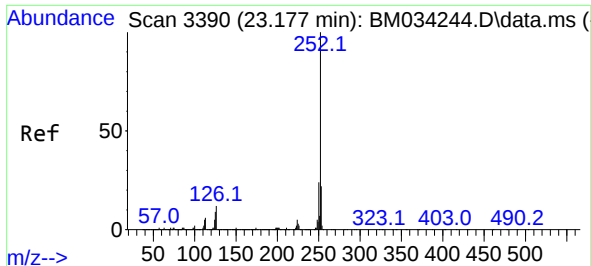


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 10.192 ng  
RT: 26.412 min Scan# 3940  
Delta R.T. -0.023 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39



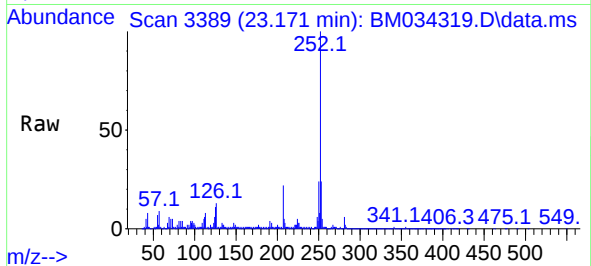
Tgt Ion:276 Resp: 555522  
Ion Ratio Lower Upper  
276 100  
138 19.2 16.6 25.0  
277 24.0 19.8 29.6





#88  
Benzo(b)fluoranthene  
Concen: 20.019 ng m  
RT: 23.171 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

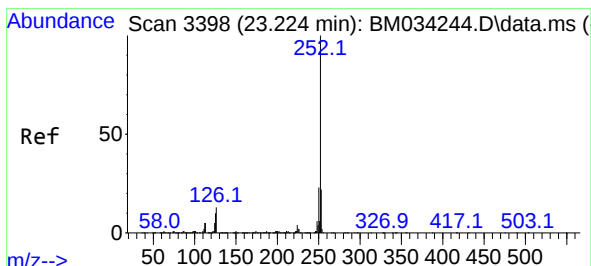
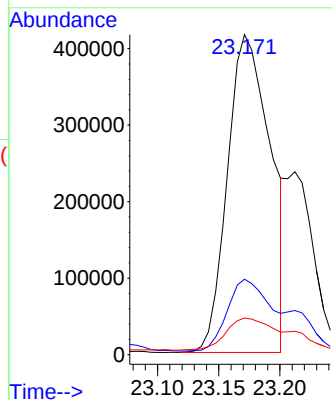
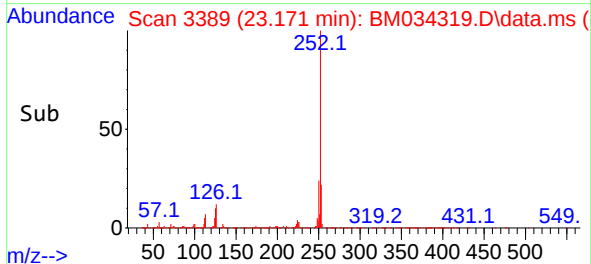
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



Tgt Ion:252 Resp: 101433  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.8 26.8  
125 11.5 7.2 10.8

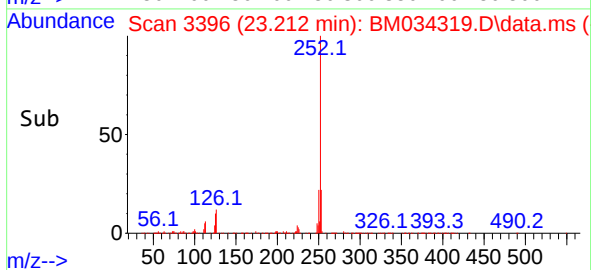
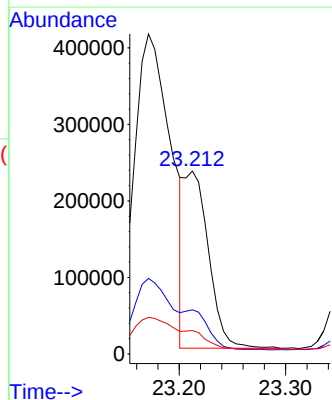
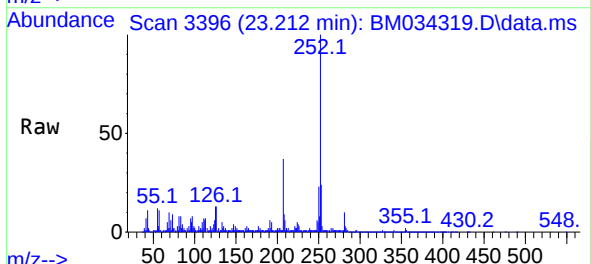
Manual Integrations  
APPROVED

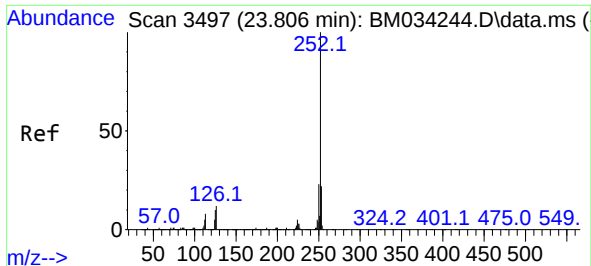
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#89  
Benzo(k)fluoranthene  
Concen: 6.851 ng m  
RT: 23.212 min Scan# 3396  
Delta R.T. -0.011 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

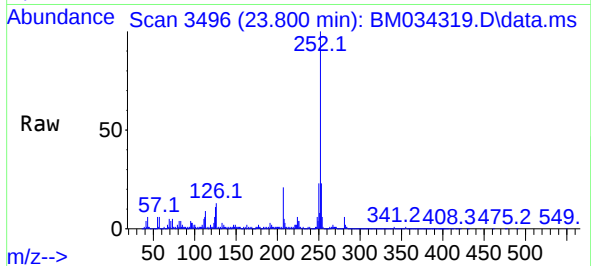
Tgt Ion:252 Resp: 367708  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.6 26.4  
125 12.8 7.5 11.3





#90  
Benzo(a)pyrene  
Concen: 21.493 ng  
RT: 23.800 min Scan# 3497  
Delta R.T. -0.006 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

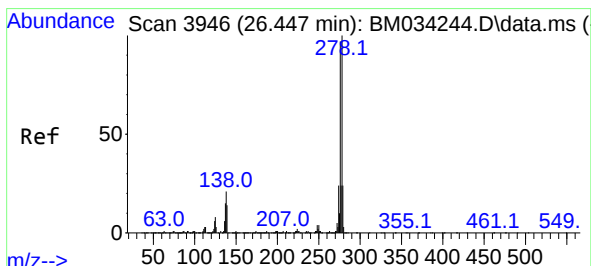
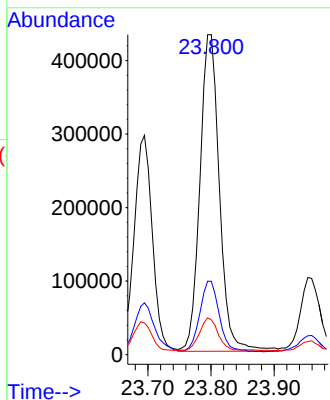
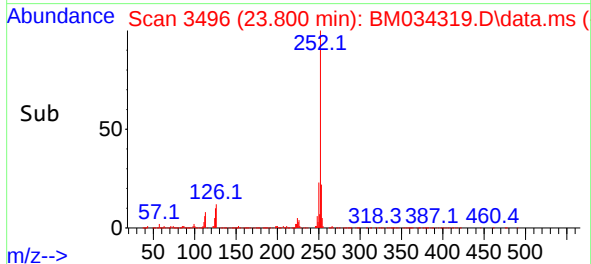
Instrument :  
BNA\_M  
ClientSampleId :  
SB-14-20220315-15.0-16.0



Tgt Ion:252 Resp: 923218  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.5 26.3  
125 10.9 7.8 11.6

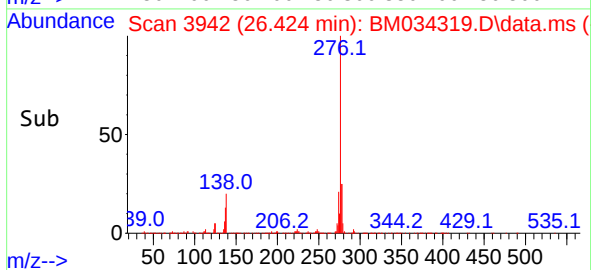
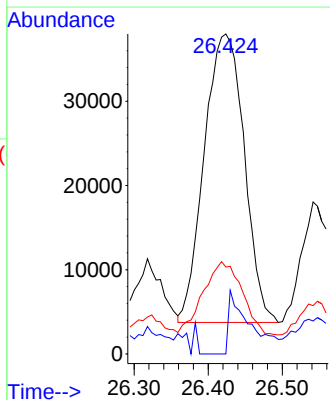
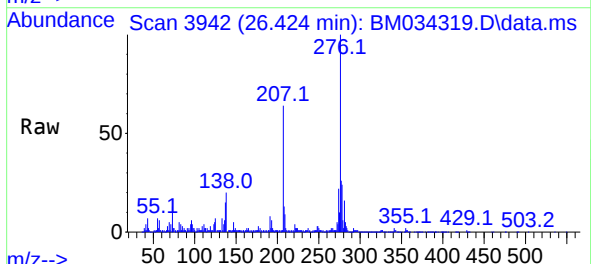
Manual Integrations  
APPROVED

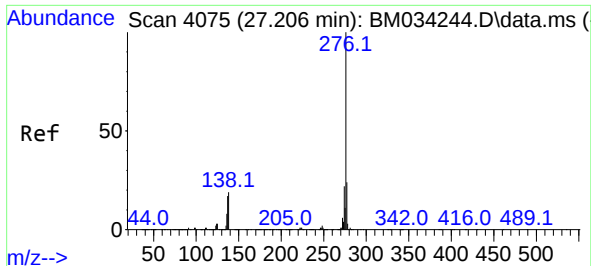
Reviewed By :Christian Giraldo 03/23/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#91  
Dibenzo(a,h)anthracene  
Concen: 2.906 ng  
RT: 26.424 min Scan# 3942  
Delta R.T. -0.023 min  
Lab File: BM034319.D  
Acq: 22 Mar 2022 20:39

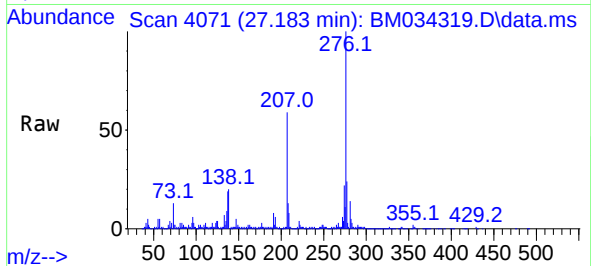
Tgt Ion:278 Resp: 128446  
Ion Ratio Lower Upper  
278 100  
139 0.0 11.2 16.8#  
279 27.1 19.2 28.8





#92  
 Benzo(g,h,i)perylene  
 Concen: 13.556 ng  
 RT: 27.183 min Scan# 4071  
 Delta R.T. -0.023 min  
 Lab File: BM034319.D  
 Acq: 22 Mar 2022 20:39

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-14-20220315-15.0-16.0



Tgt Ion:276 Resp: 62012  
 Ion Ratio Lower Upper  
 276 100  
 277 24.0 19.0 28.4  
 138 19.6 15.6 23.4

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 03/23/2022  
 Supervised By :Jagrut Upadhyay 03/23/2022

