

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020122\  
 Data File : BP008986.D  
 Acq On : 01 Feb 2022 14:50  
 Operator : CG/JU  
 Sample : N1303-01RE  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 CC-5RE

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 02/02/2022  
 Supervised By : Jagrut Upadhyay 02/02/2022

Quant Time: Feb 01 15:31:29 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP011422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 01 04:16:03 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.828  | 152  | 221114   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.628 | 136  | 874776   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.469 | 164  | 584613   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.222 | 188  | 1194122  | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.315 | 240  | 1162122  | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 23.721 | 264  | 1187875  | 20.000 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.416  | 112  | 641      | 0.045  | ng    | 0.00     |
| 7) Phenol-d6                | 7.034  | 99   | 11951    | 0.690  | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 8.987  | 82   | 880849   | 57.168 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 15.980 | 330  | 620      | 0.073  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.092 | 172  | 2423294  | 54.663 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.786 | 244  | 3421270  | 49.693 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 10.675 | 128  | 1757509  | 36.991 | ng    | 100      |
| 37) 2-Methylnaphthalene     | 12.287 | 142  | 243525   | 7.011  | ng    | 97       |
| 38) 1-Methylnaphthalene     | 12.510 | 142  | 138956   | 4.359  | ng    | # 99     |
| 52) Acenaphthene            | 14.528 | 154  | 79549    | 2.421  | ng    | 98       |
| 58) Fluorene                | 15.516 | 166  | 125124   | 2.958  | ng    | 99       |
| 71) Phenanthrene            | 17.263 | 178  | 1343333  | 19.980 | ng    | 98       |
| 72) Anthracene              | 17.357 | 178  | 232925   | 3.454  | ng    | 99       |
| 75) Fluoranthene            | 19.233 | 202  | 1344170  | 17.978 | ng    | 97       |
| 78) Pyrene                  | 19.586 | 202  | 1241132  | 15.306 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.298 | 228  | 720195   | 9.212  | ng    | 99       |
| 83) Chrysene                | 21.351 | 228  | 707792   | 9.339  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.227 | 276  | 417224   | 4.262  | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 22.986 | 252  | 900467   | 11.351 | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 23.033 | 252  | 317213m  | 4.131  | ng    |          |
| 90) Benzo(a)pyrene          | 23.615 | 252  | 609247   | 7.957  | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 27.003 | 276  | 411149   | 5.059  | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

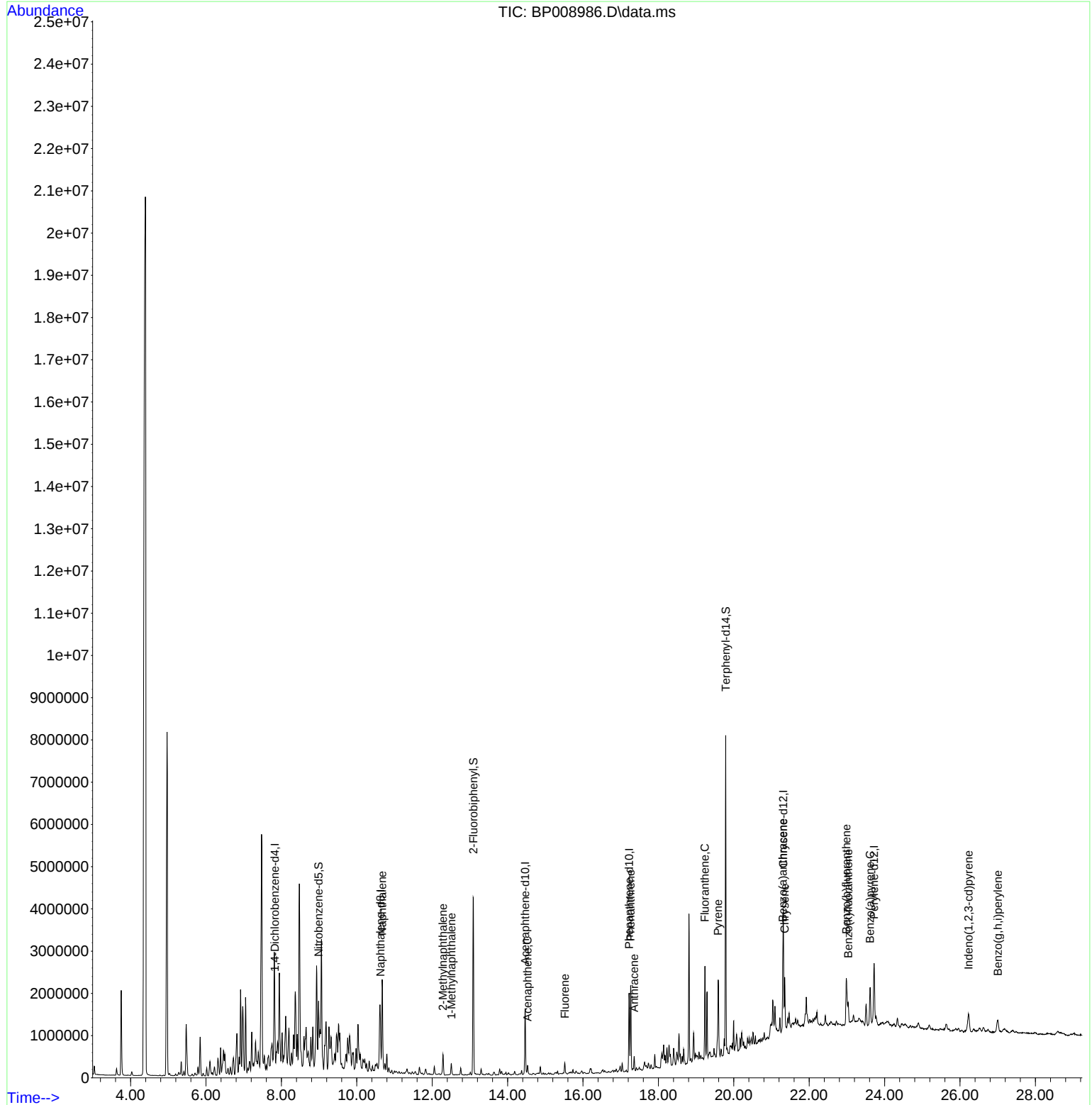
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020122\  
Data File : BP008986.D  
Acq On : 01 Feb 2022 14:50  
Operator : CG/JU  
Sample : N1303-01RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

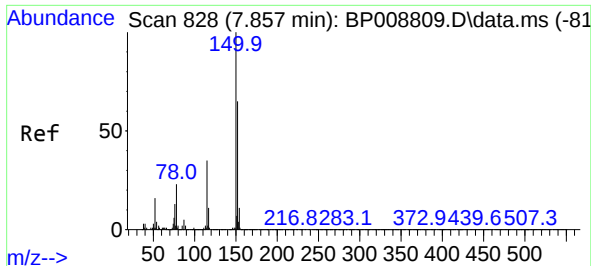
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE

Quant Time: Feb 01 15:31:29 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP011422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Feb 01 04:16:03 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

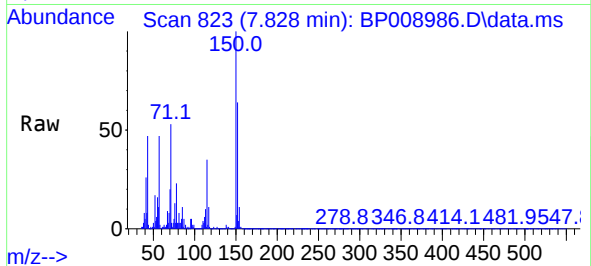
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.828 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

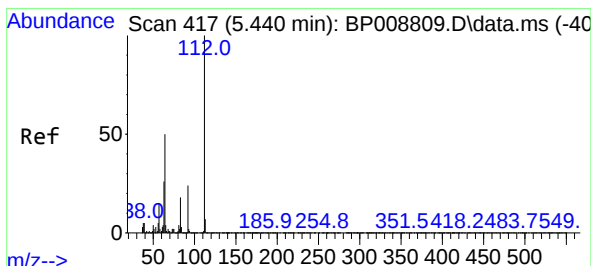
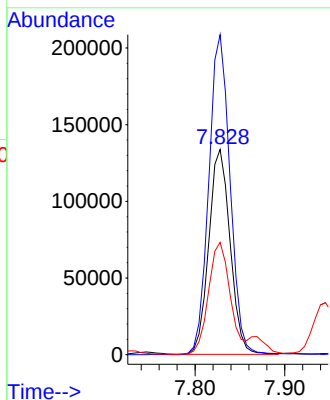
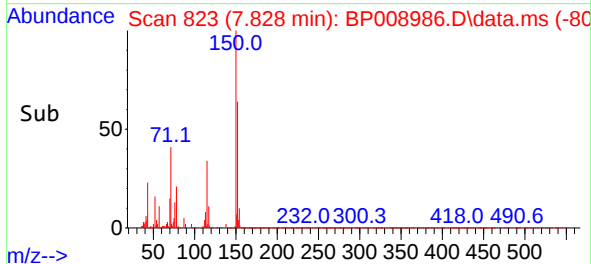
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



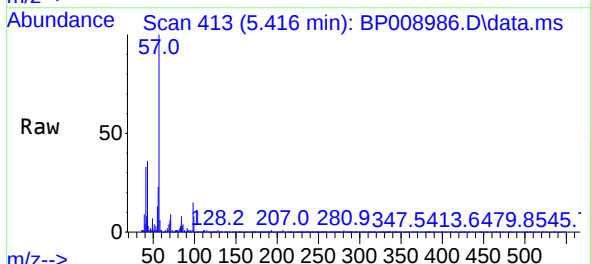
Tgt Ion:152 Resp: 221114  
Ion Ratio Lower Upper  
152 100  
150 155.9 127.0 190.6  
115 54.7 43.7 65.5

Manual Integrations  
APPROVED

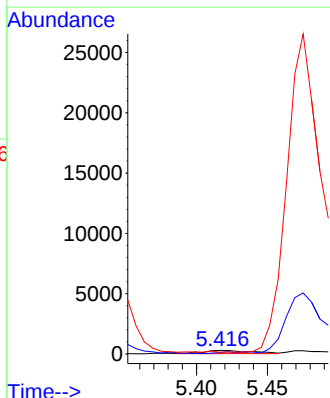
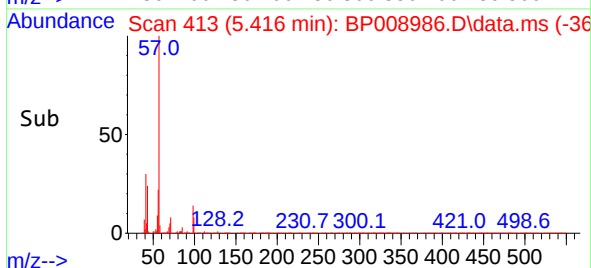
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022

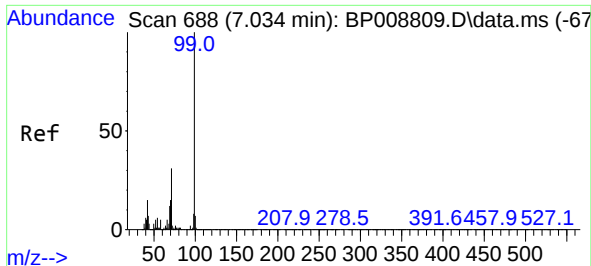


#5  
2-Fluorophenol  
Concen: 0.045 ng  
RT: 5.416 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50



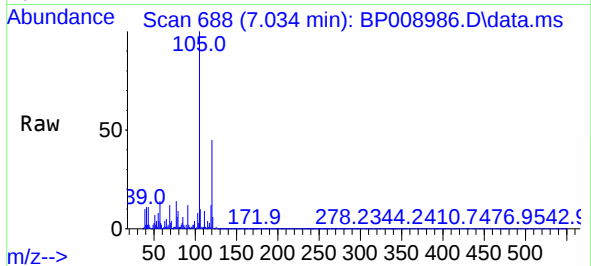
Tgt Ion:112 Resp: 641  
Ion Ratio Lower Upper  
112 100  
64 40.1 39.7 59.5  
63 50.3 20.0 30.0#





#7  
Phenol-d6  
Concen: 0.690 ng  
RT: 7.034 min Scan# 61  
Delta R.T. 0.018 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

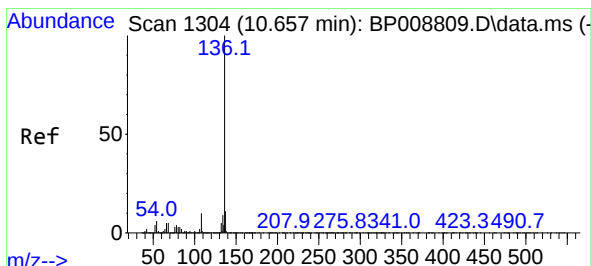
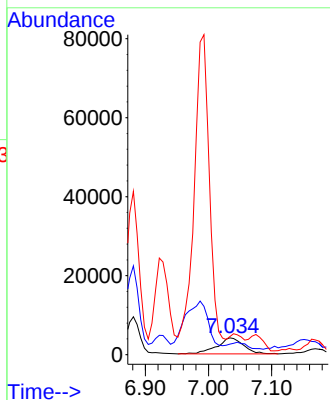
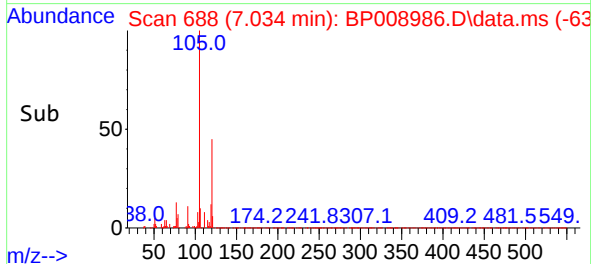
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



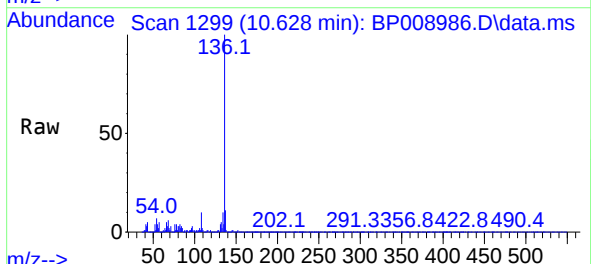
Tgt Ion: 99 Resp: 1195  
Ion Ratio Lower Upper  
99 100  
42 63.2 10.8 16.2  
71 108.1 23.8 35.6

Manual Integrations  
APPROVED

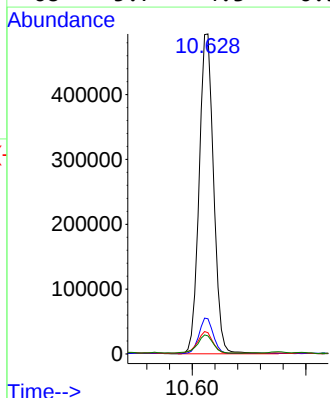
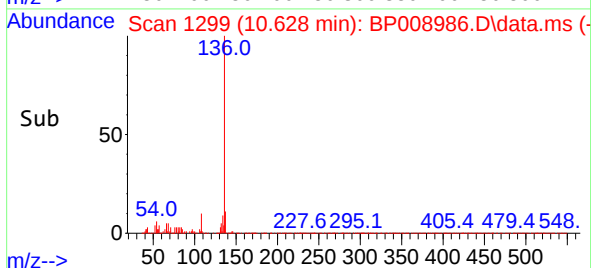
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022

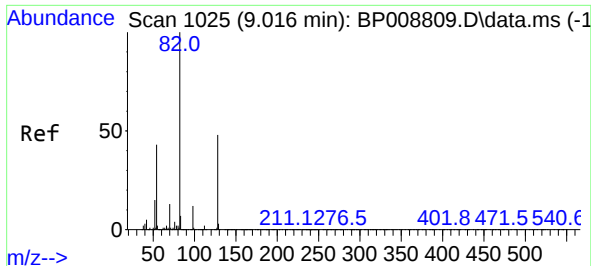


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.628 min Scan# 1299  
Delta R.T. -0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50



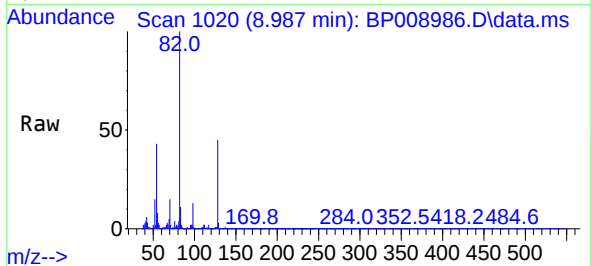
Tgt Ion:136 Resp: 874776  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.0 13.4  
54 6.6 4.9 7.3  
68 5.7 4.3 6.5





#23  
Nitrobenzene-d5  
Concen: 57.168 ng  
RT: 8.987 min Scan# 10  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

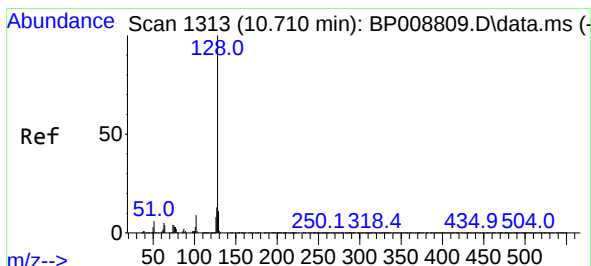
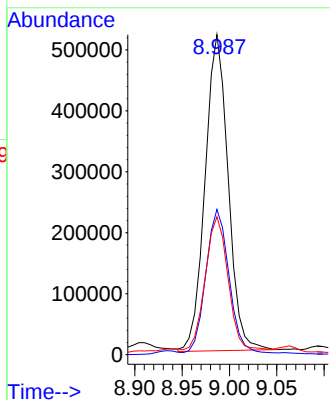
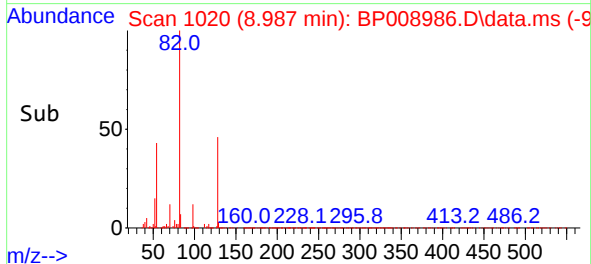
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



Tgt Ion: 82 Resp: 880849  
Ion Ratio Lower Upper  
82 100  
128 45.4 39.4 59.2  
54 43.1 32.6 48.8

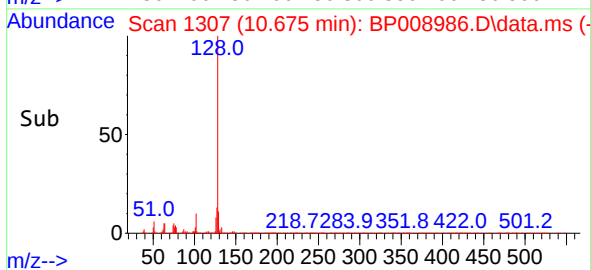
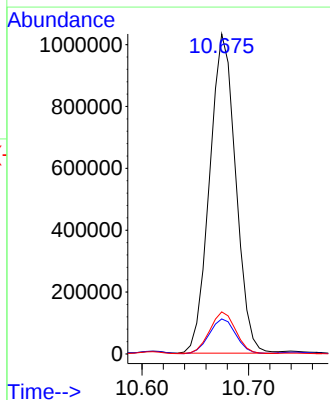
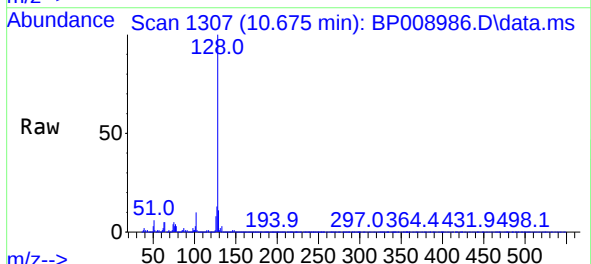
Manual Integrations  
APPROVED

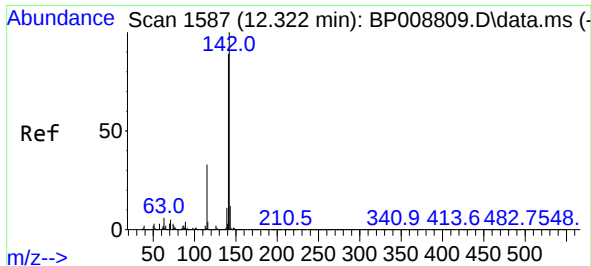
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#31  
Naphthalene  
Concen: 36.991 ng  
RT: 10.675 min Scan# 1307  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

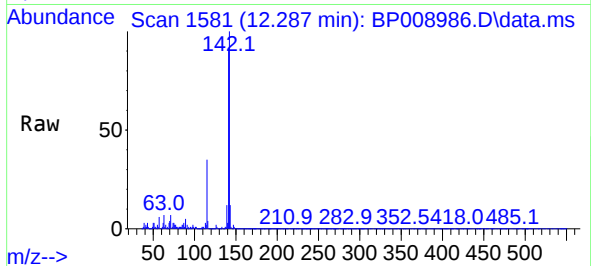
Tgt Ion:128 Resp: 1757509  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.8 13.2  
127 13.1 10.4 15.6





#37  
2-Methylnaphthalene  
Concen: 7.011 ng  
RT: 12.287 min Scan# 1619  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

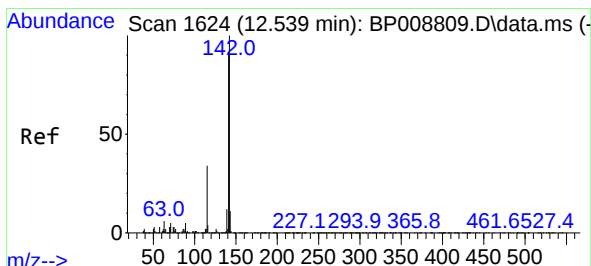
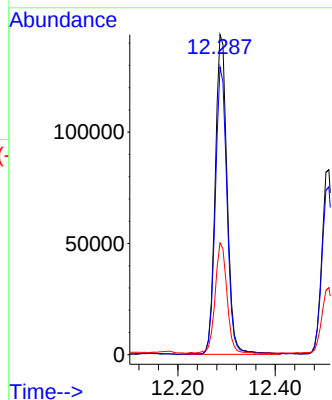
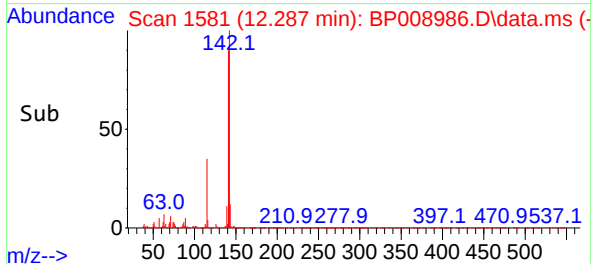
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



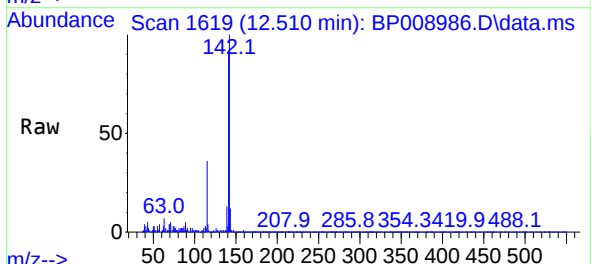
Tgt Ion:142 Resp: 24352  
Ion Ratio Lower Upper  
142 100  
141 89.9 70.5 105.7  
115 35.0 24.6 36.8

Manual Integrations  
APPROVED

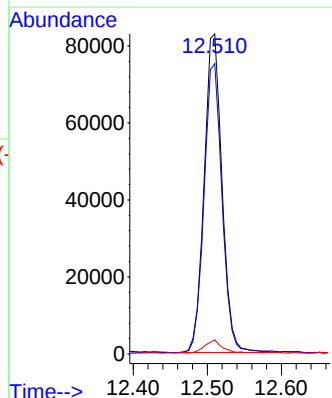
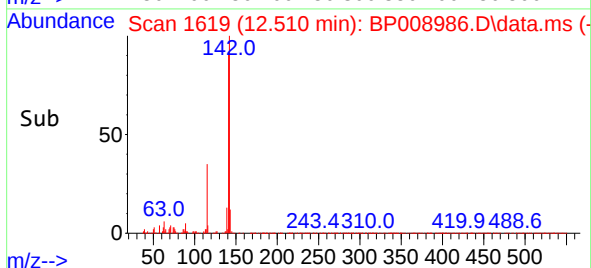
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022

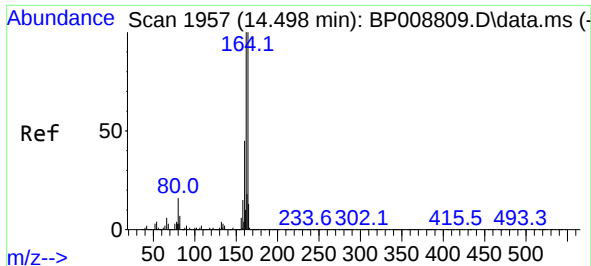


#38  
1-Methylnaphthalene  
Concen: 4.359 ng  
RT: 12.510 min Scan# 1619  
Delta R.T. -0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50



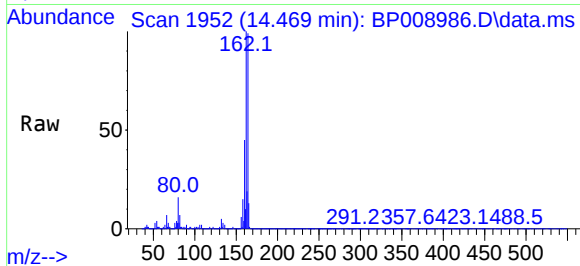
Tgt Ion:142 Resp: 138956  
Ion Ratio Lower Upper  
142 100  
141 90.7 73.2 109.8  
116 4.4 2.7 4.1#





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.469 min Scan# 1957  
Delta R.T. -0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

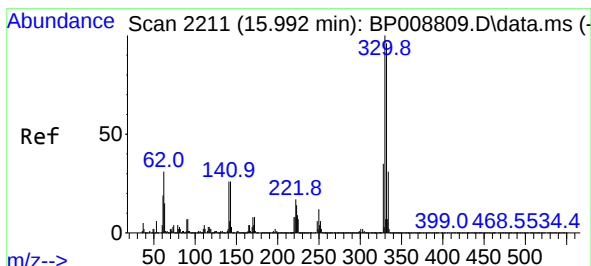
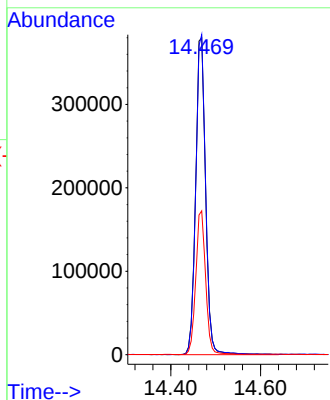
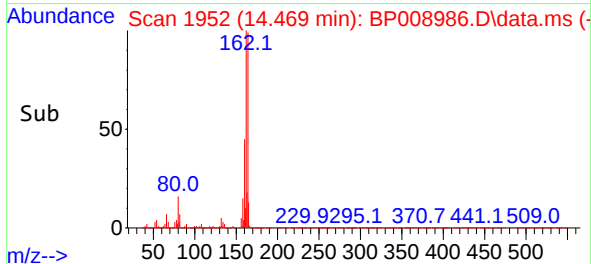
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



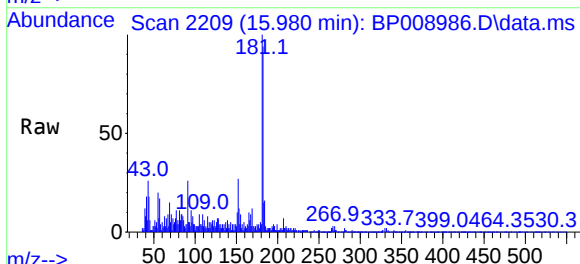
Tgt Ion:164 Resp: 58461  
Ion Ratio Lower Upper  
164 100  
162 101.0 79.9 119.9  
160 45.4 35.5 53.3

Manual Integrations  
APPROVED

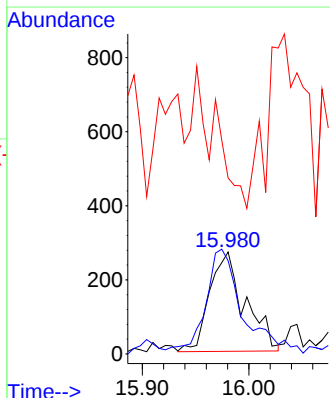
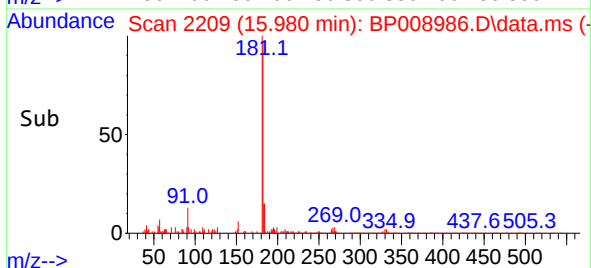
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022

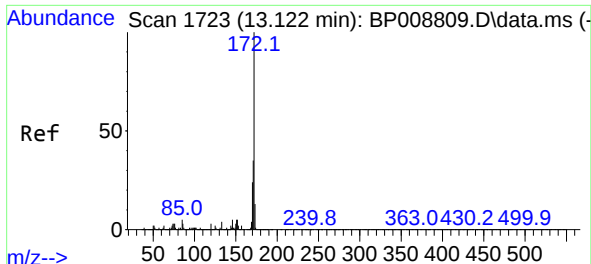


#42  
2,4,6-Tribromophenol  
Concen: 0.073 ng  
RT: 15.980 min Scan# 2209  
Delta R.T. 0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50



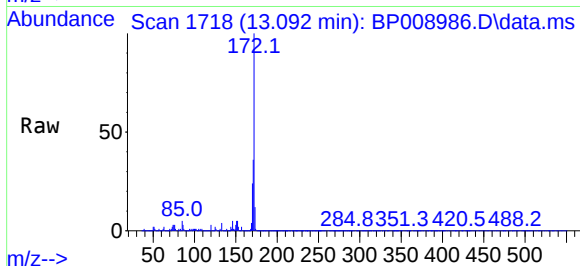
Tgt Ion:330 Resp: 620  
Ion Ratio Lower Upper  
330 100  
332 108.5 77.0 115.4  
141 0.0 21.3 31.9#





#45  
2-Fluorobiphenyl  
Concen: 54.663 ng  
RT: 13.092 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

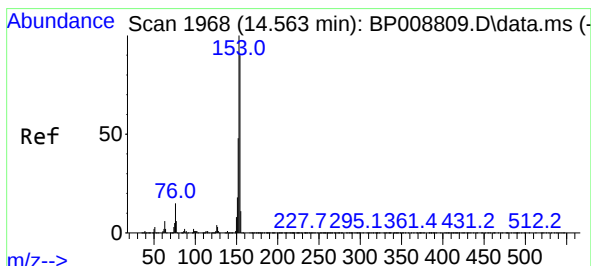
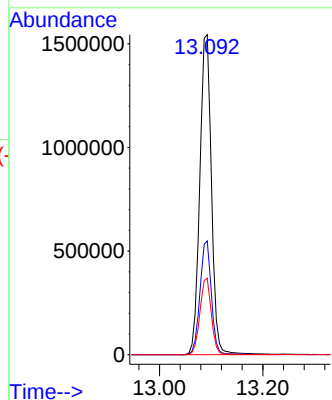
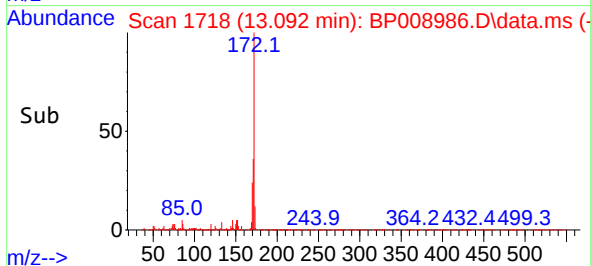
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



Tgt Ion:172 Resp: 2423294  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.3 43.9  
170 23.9 19.5 29.3

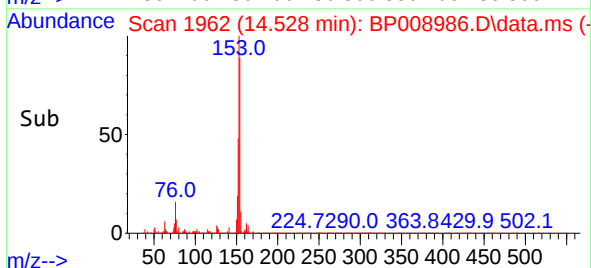
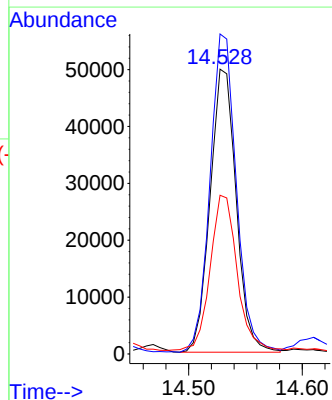
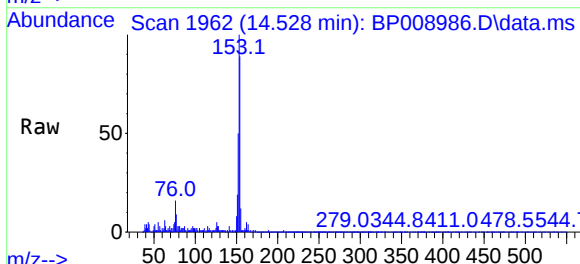
Manual Integrations  
APPROVED

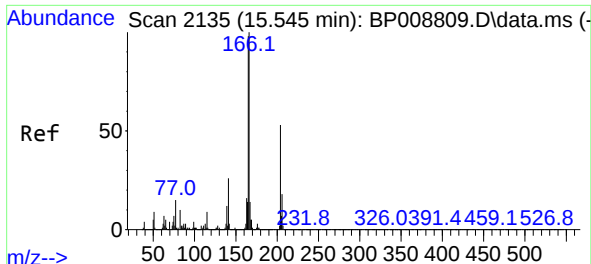
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#52  
Acenaphthene  
Concen: 2.421 ng  
RT: 14.528 min Scan# 1962  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

Tgt Ion:154 Resp: 79549  
Ion Ratio Lower Upper  
154 100  
153 112.4 89.4 134.2  
152 55.7 42.6 63.8





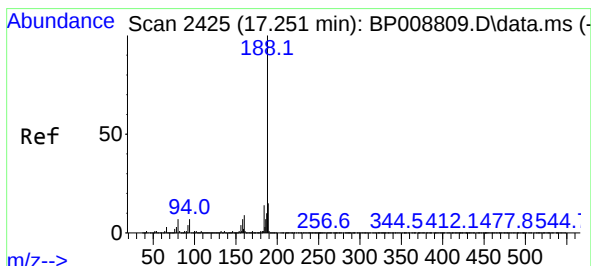
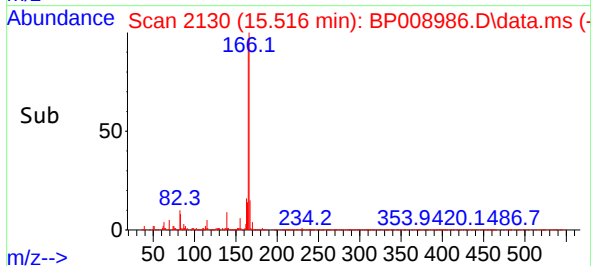
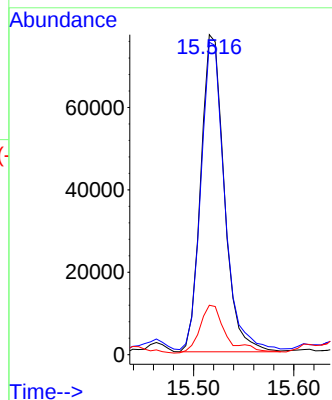
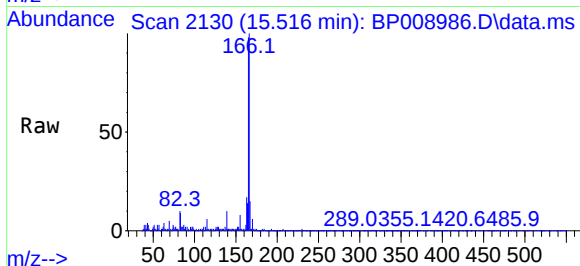
#58  
Fluorene  
Concen: 2.958 ng  
RT: 15.516 min Scan# 2135  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE

Tgt Ion:166 Resp: 125124  
Ion Ratio Lower Upper  
166 100  
165 97.7 77.2 115.8  
167 15.4 11.2 16.8

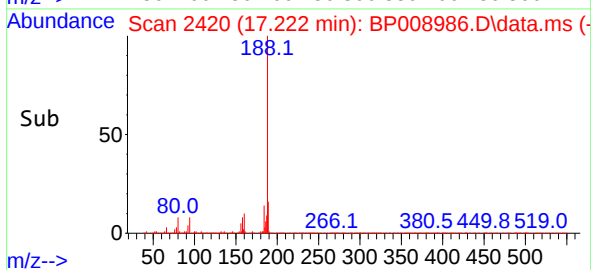
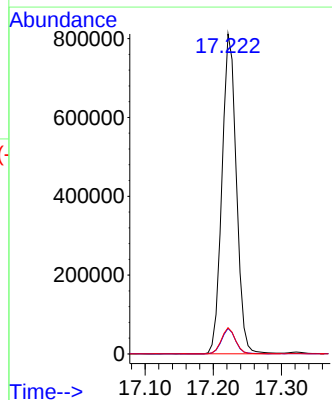
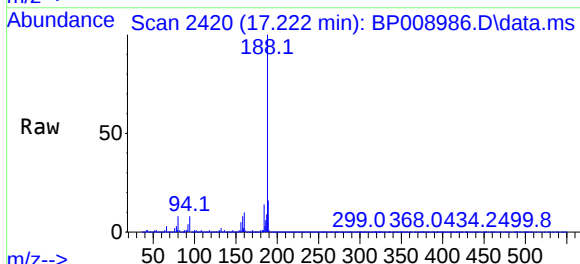
Manual Integrations  
APPROVED

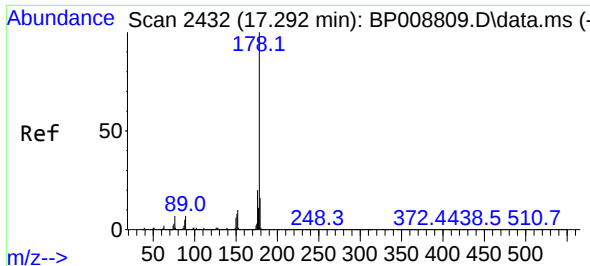
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.222 min Scan# 2420  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

Tgt Ion:188 Resp: 1194122  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.8 10.2  
80 8.2 7.2 10.8





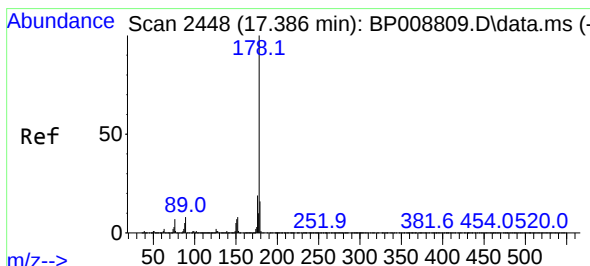
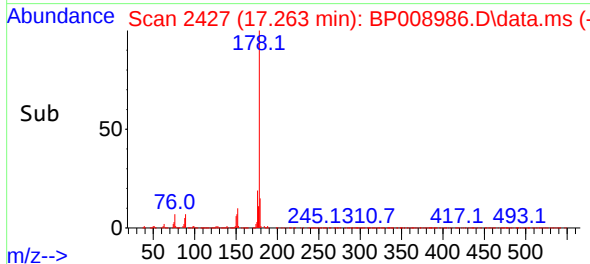
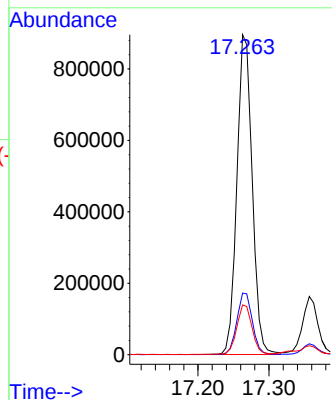
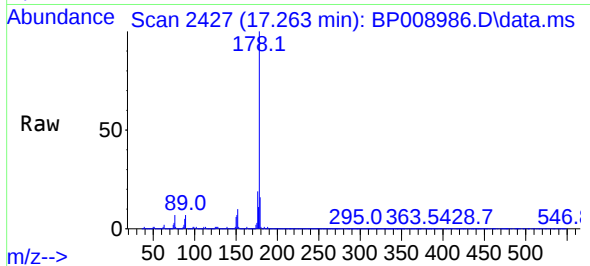
#71  
Phenanthrene  
Concen: 19.980 ng  
RT: 17.263 min Scan# 2432  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE

Tgt Ion:178 Resp: 134333  
Ion Ratio Lower Upper  
178 100  
176 19.3 16.0 24.0  
179 15.6 13.0 19.4

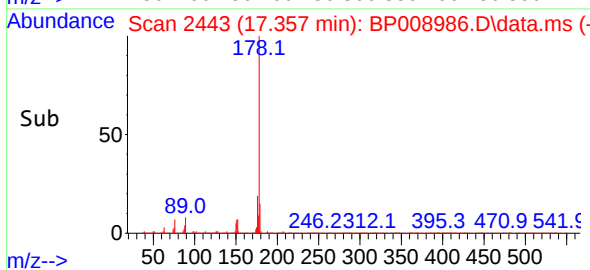
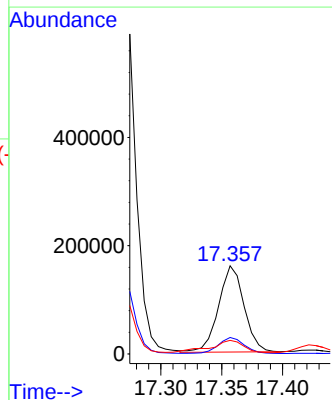
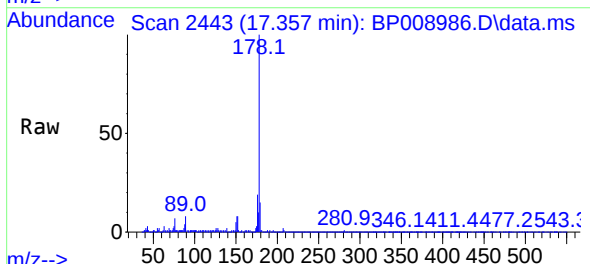
Manual Integrations  
APPROVED

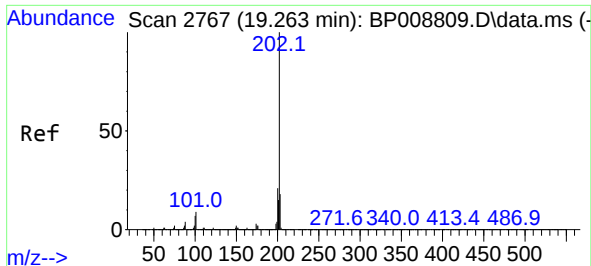
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#72  
Anthracene  
Concen: 3.454 ng  
RT: 17.357 min Scan# 2443  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

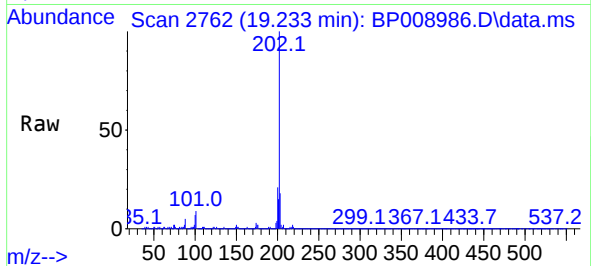
Tgt Ion:178 Resp: 232925  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.1 22.7  
179 15.4 12.8 19.2





#75  
Fluoranthene  
Concen: 17.978 ng  
RT: 19.233 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

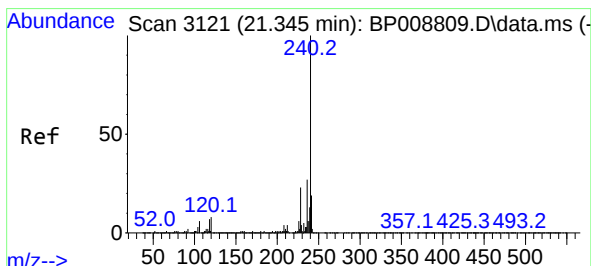
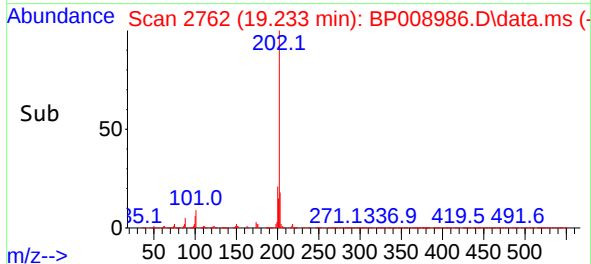
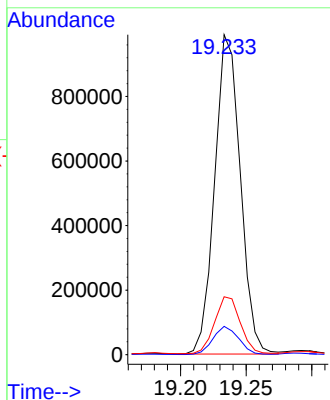
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



Tgt Ion:202 Resp: 1344170  
Ion Ratio Lower Upper  
202 100  
101 8.9 0.0 30.7  
203 18.1 0.0 38.9

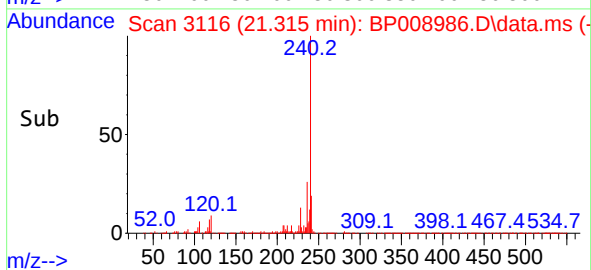
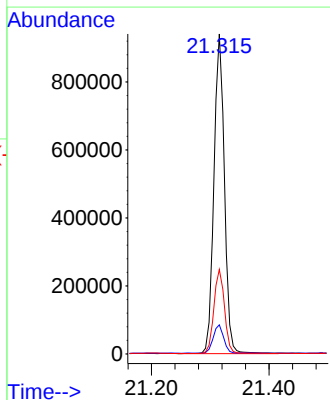
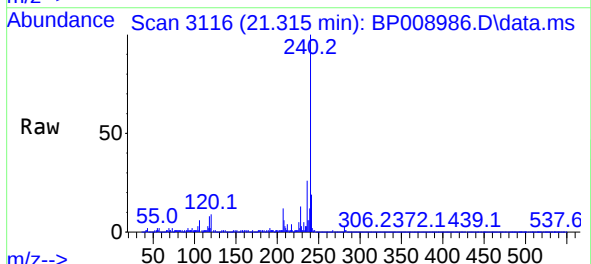
Manual Integrations  
APPROVED

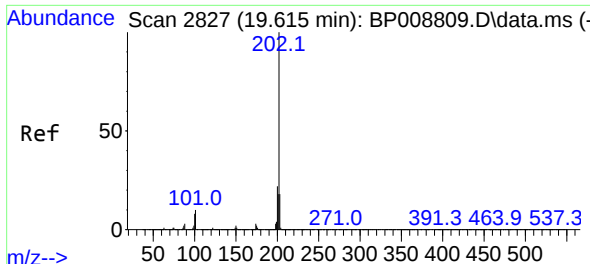
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.315 min Scan# 3116  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

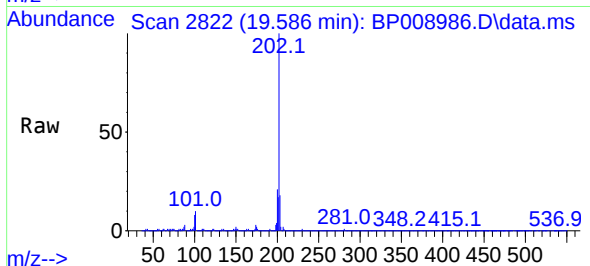
Tgt Ion:240 Resp: 1162122  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.7 11.5  
236 26.4 21.2 31.8





#78  
 Pyrene  
 Concen: 15.306 ng  
 RT: 19.586 min Scan# 2822  
 Delta R.T. -0.012 min  
 Lab File: BP008986.D  
 Acq: 01 Feb 2022 14:50

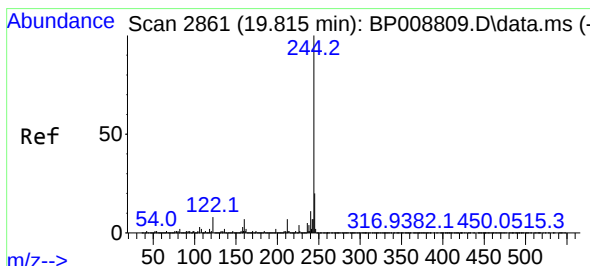
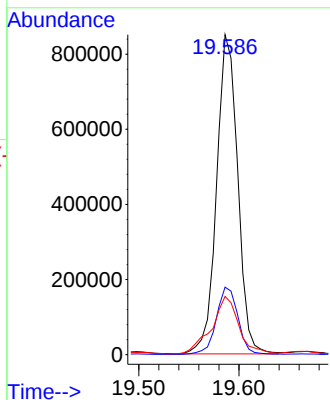
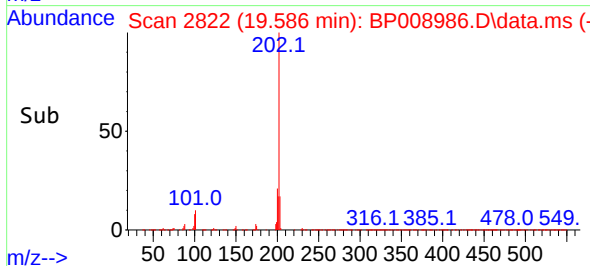
Instrument :  
 BNA\_P  
 ClientSampleId :  
 CC-5RE



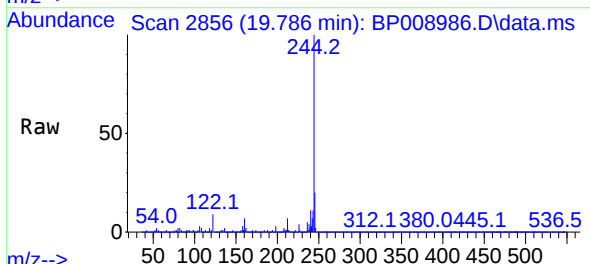
Tgt Ion:202 Resp: 124113  
 Ion Ratio Lower Upper  
 202 100  
 200 21.1 18.0 27.0  
 203 18.2 15.0 22.6

Manual Integrations  
 APPROVED

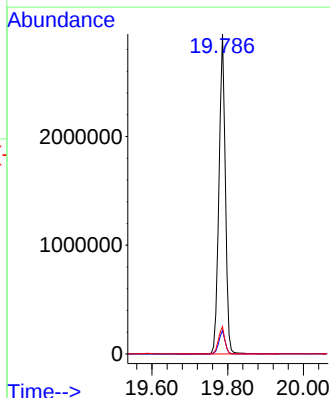
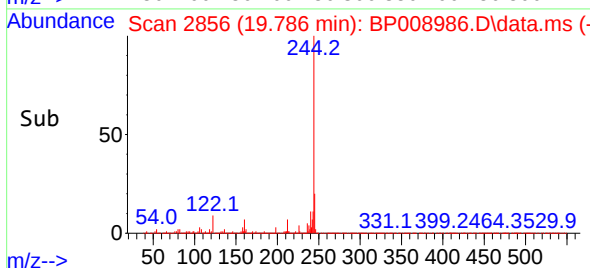
Reviewed By :Christian Giraldo 02/02/2022  
 Supervised By :Jagrut Upadhyay 02/02/2022

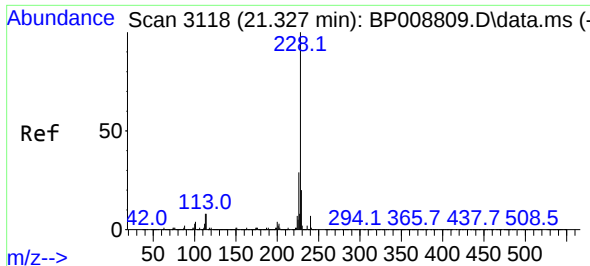


#79  
 Terphenyl-d14  
 Concen: 49.693 ng  
 RT: 19.786 min Scan# 2856  
 Delta R.T. -0.012 min  
 Lab File: BP008986.D  
 Acq: 01 Feb 2022 14:50



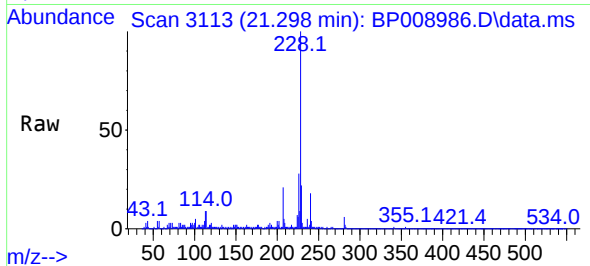
Tgt Ion:244 Resp: 3421270  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.5 9.7  
 122 8.5 9.2 13.8#





#81  
Benzo(a)anthracene  
Concen: 9.212 ng  
RT: 21.298 min Scan# 3118  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

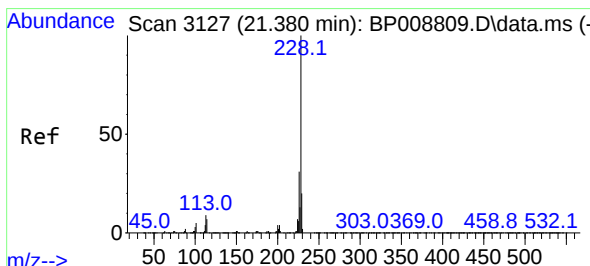
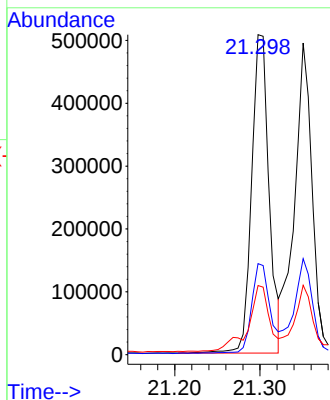
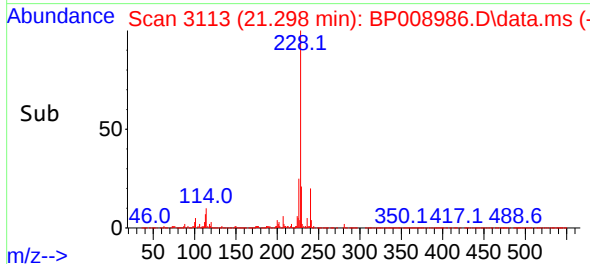
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



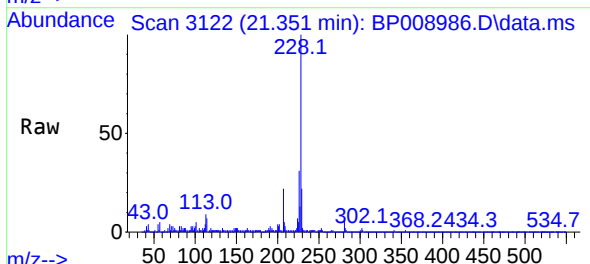
Tgt Ion:228 Resp: 72019  
Ion Ratio Lower Upper  
228 100  
226 28.4 23.3 34.9  
229 21.6 17.0 25.6

Manual Integrations  
APPROVED

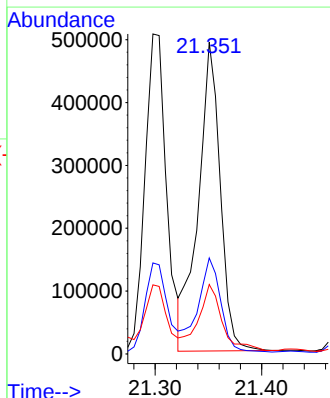
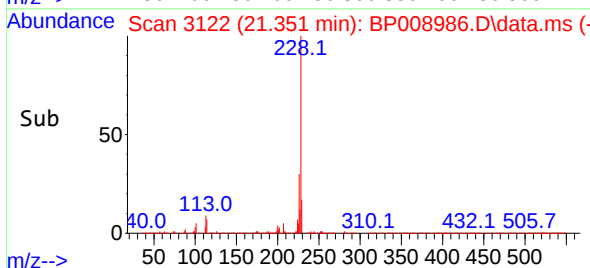
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022

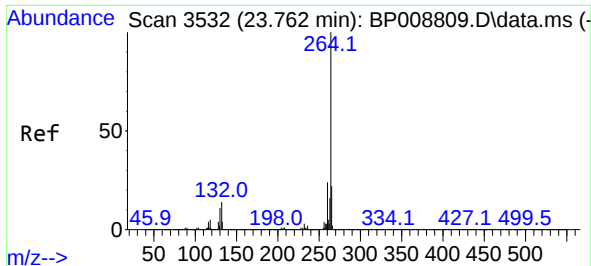


#83  
Chrysene  
Concen: 9.339 ng  
RT: 21.351 min Scan# 3122  
Delta R.T. -0.012 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50



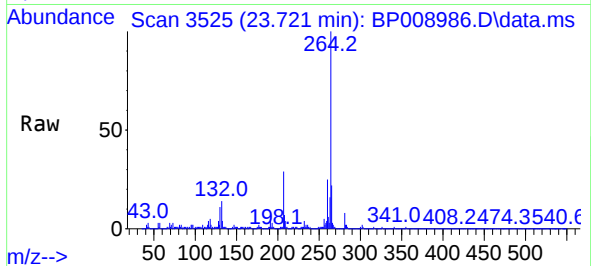
Tgt Ion:228 Resp: 707792  
Ion Ratio Lower Upper  
228 100  
226 30.8 26.0 39.0  
229 22.3 16.9 25.3





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.721 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

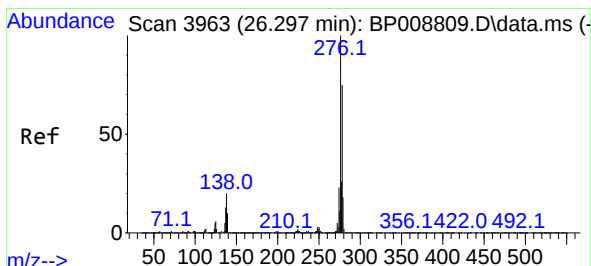
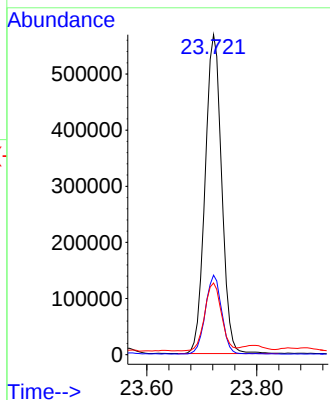
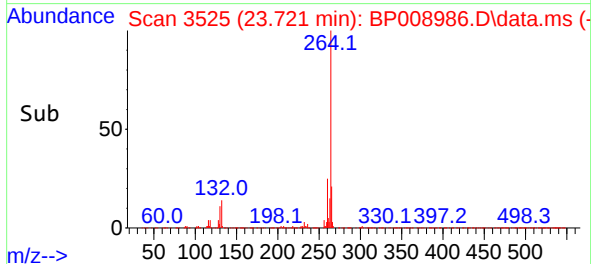
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



Tgt Ion:264 Resp: 118787  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.1 28.7  
265 22.4 17.1 25.7

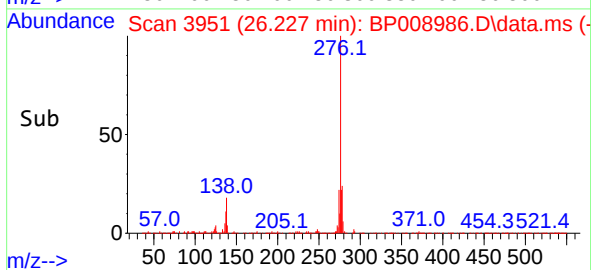
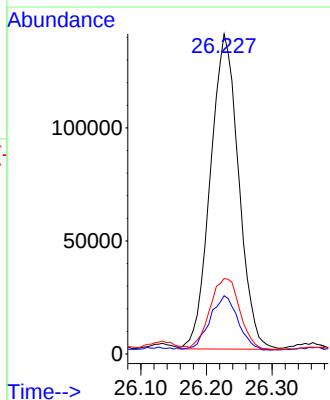
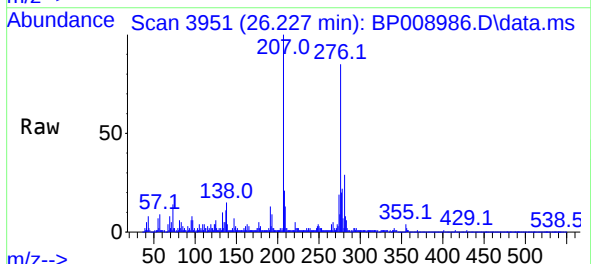
Manual Integrations  
APPROVED

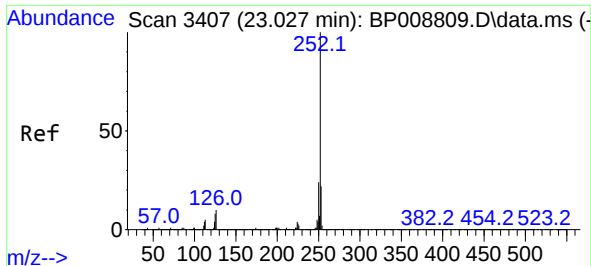
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.262 ng  
RT: 26.227 min Scan# 3951  
Delta R.T. -0.035 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

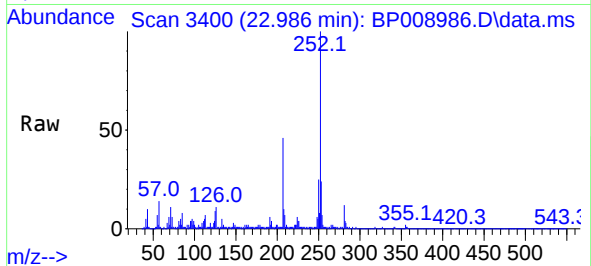
Tgt Ion:276 Resp: 417224  
Ion Ratio Lower Upper  
276 100  
138 17.2 17.8 26.6#  
277 24.0 20.4 30.6





#88  
Benzo(b)fluoranthene  
Concen: 11.351 ng  
RT: 22.986 min Scan# 3407  
Delta R.T. -0.018 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

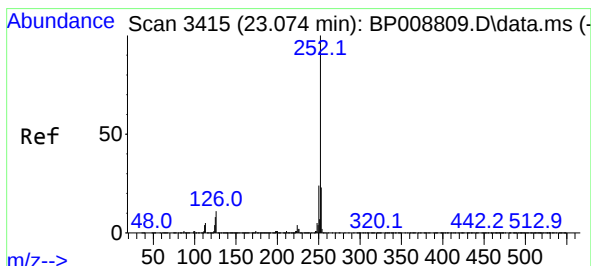
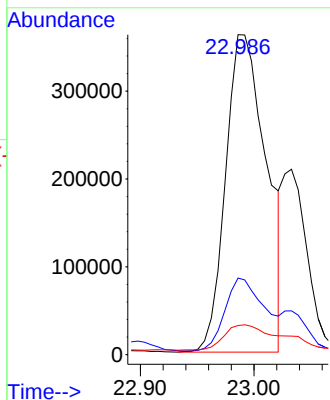
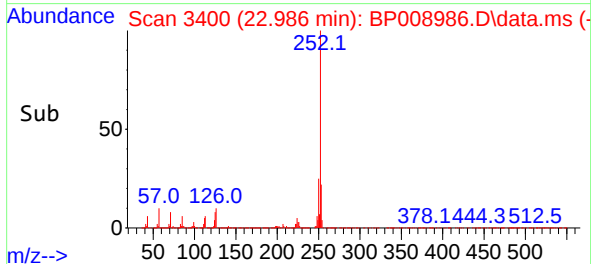
Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE



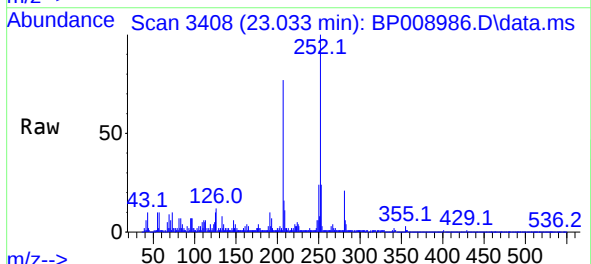
Tgt Ion:252 Resp: 90046  
Ion Ratio Lower Upper  
252 100  
253 24.0 18.0 27.0  
125 9.1 6.9 10.3

Manual Integrations  
APPROVED

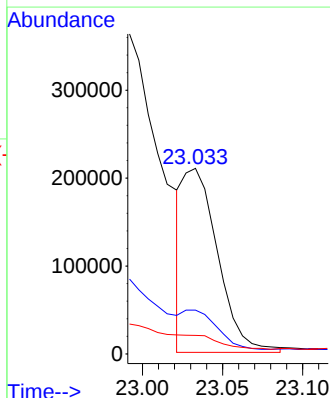
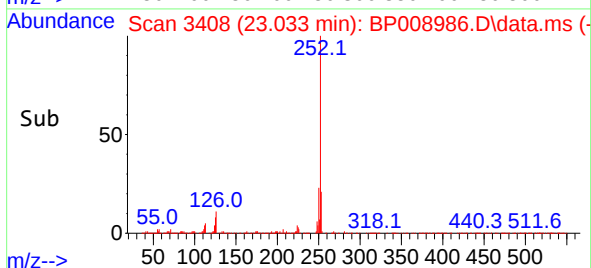
Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022

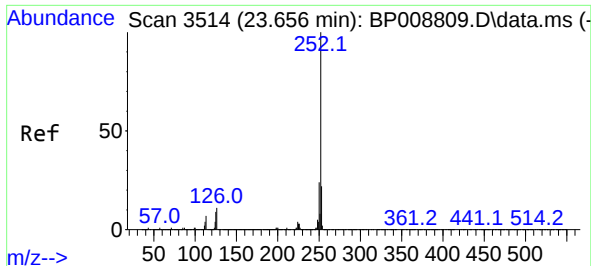


#89  
Benzo(k)fluoranthene  
Concen: 4.131 ng m  
RT: 23.033 min Scan# 3408  
Delta R.T. -0.018 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50



Tgt Ion:252 Resp: 317213  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.2 27.2  
125 10.0 7.3 10.9





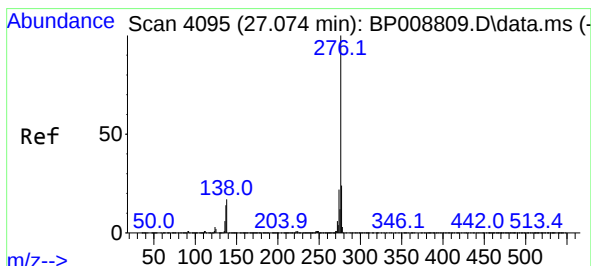
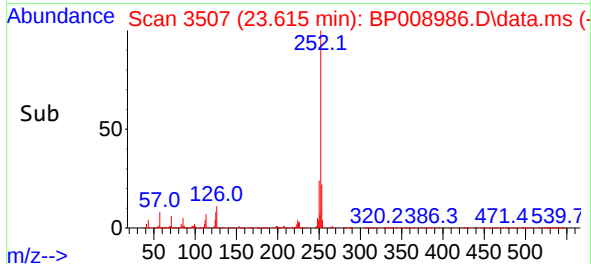
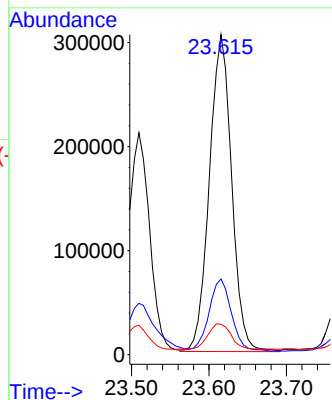
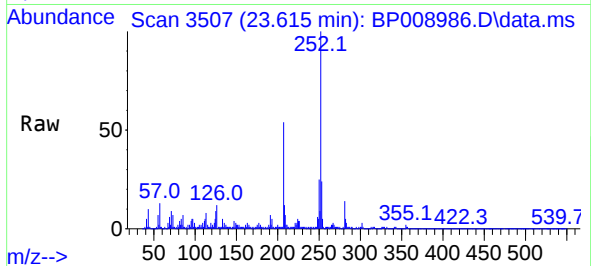
#90  
Benzo(a)pyrene  
Concen: 7.957 ng  
RT: 23.615 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

Instrument :  
BNA\_P  
ClientSampleId :  
CC-5RE

Tgt Ion:252 Resp: 60924  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.8 26.8  
125 9.5 7.8 11.6

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 02/02/2022  
Supervised By :Jagrut Upadhyay 02/02/2022



#92  
Benzo(g,h,i)perylene  
Concen: 5.059 ng  
RT: 27.003 min Scan# 4083  
Delta R.T. -0.029 min  
Lab File: BP008986.D  
Acq: 01 Feb 2022 14:50

Tgt Ion:276 Resp: 411149  
Ion Ratio Lower Upper  
276 100  
277 24.6 19.2 28.8  
138 18.5 15.0 22.4

