

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP121823\  
 Data File : BP018936.D  
 Acq On : 19 Dec 2023 08:19  
 Operator : MA/JU  
 Sample : 05626-08DL 30X  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCLF4DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/20/2023  
 Supervised By :mohammad ahmed 12/20/2023

Quant Time: Dec 19 21:47:02 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP120123.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 19 05:28:03 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|-----------|---------|--------|----------|
| -----                         |        |      |           |         |        |          |
| Internal Standards            |        |      |           |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.828  | 152  | 245324    | 20.000  | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.622 | 136  | 881721    | 20.000  | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.463 | 164  | 502014    | 20.000  | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.216 | 188  | 988960    | 20.000  | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.310 | 240  | 1022870   | 20.000  | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.674 | 264  | 1247233   | 20.000  | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |           |         |        |          |
| 3) 1,4-Dioxane-d8             | 0.000  | 96   | 0d        | 0.000   | ng/uL  |          |
| 4) Pyridine-d5                | 0.000  | 84   | 0d        | 0.000   | ng/u1  |          |
| 7) Phenol-d5                  | 7.011  | 99   | 7398      | 0.300   | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.170  | 67   | 4823      | 0.331   | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.364  | 132  | 6799      | 0.354   | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.552  | 113  | 5082      | 0.255   | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.993  | 128  | 3063      | 0.390   | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.711  | 143  | 2736      | 0.336   | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.258 | 165  | 5615      | 0.338   | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 0.000  | 131  | 0d        | 0.000   | ng/u1  |          |
| 46) Dimethylphthalate-d6      | 13.881 | 166  | 18657     | 0.416   | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.151 | 160  | 19784     | 0.401   | ng/u1  | -0.01    |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0d        | 0.000   | ng/u1  |          |
| 60) Fluorene-d10              | 15.457 | 176  | 17595     | 0.468   | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d        | 0.000   | ng/u1  |          |
| 73) Anthracene-d10            | 17.316 | 188  | 24179     | 0.465   | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.551 | 212  | 31573     | 0.397   | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.522 | 264  | 32148     | 0.442   | ng/u1  | -0.01    |
| Target Compounds              |        |      |           |         |        |          |
|                               |        |      |           |         | Qvalue |          |
| 30) Naphthalene               | 10.675 | 128  | 860751    | 16.092  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.287 | 142  | 1058624   | 27.937  | ng/u1  | 99       |
| 37) 1-Methylnaphthalene       | 12.505 | 142  | 678559    | 17.732  | ng/u1  | 97       |
| 50) Acenaphthylene            | 14.187 | 152  | 113135    | 2.040   | ng/u1# | 90       |
| 52) Acenaphthene              | 14.528 | 153  | 3320591   | 90.538  | ng/u1  | 99       |
| 61) Fluorene                  | 15.516 | 166  | 4260906   | 105.639 | ng/u1  | 99       |
| 72) Phenanthrene              | 17.269 | 178  | 14928416  | 249.937 | ng/u1  | 94       |
| 74) Anthracene                | 17.351 | 178  | 4285782   | 71.584  | ng/u1  | 100      |
| 80) Fluoranthene              | 19.239 | 202  | 10801189m | 114.763 | ng/u1  |          |
| 82) Pyrene                    | 19.586 | 202  | 7844757   | 82.623  | ng/u1# | 93       |
| 85) Benzo(a)anthracene        | 21.292 | 228  | 2009940   | 24.209  | ng/u1  | 99       |
| 87) Chrysene                  | 21.345 | 228  | 1762310   | 23.050  | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 22.957 | 252  | 1146340   | 12.466  | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 22.998 | 252  | 351996m   | 3.956   | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.569 | 252  | 479377    | 5.705   | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.133 | 276  | 205270    | 2.045   | ng/u1# | 94       |
| -----                         |        |      |           |         |        |          |

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

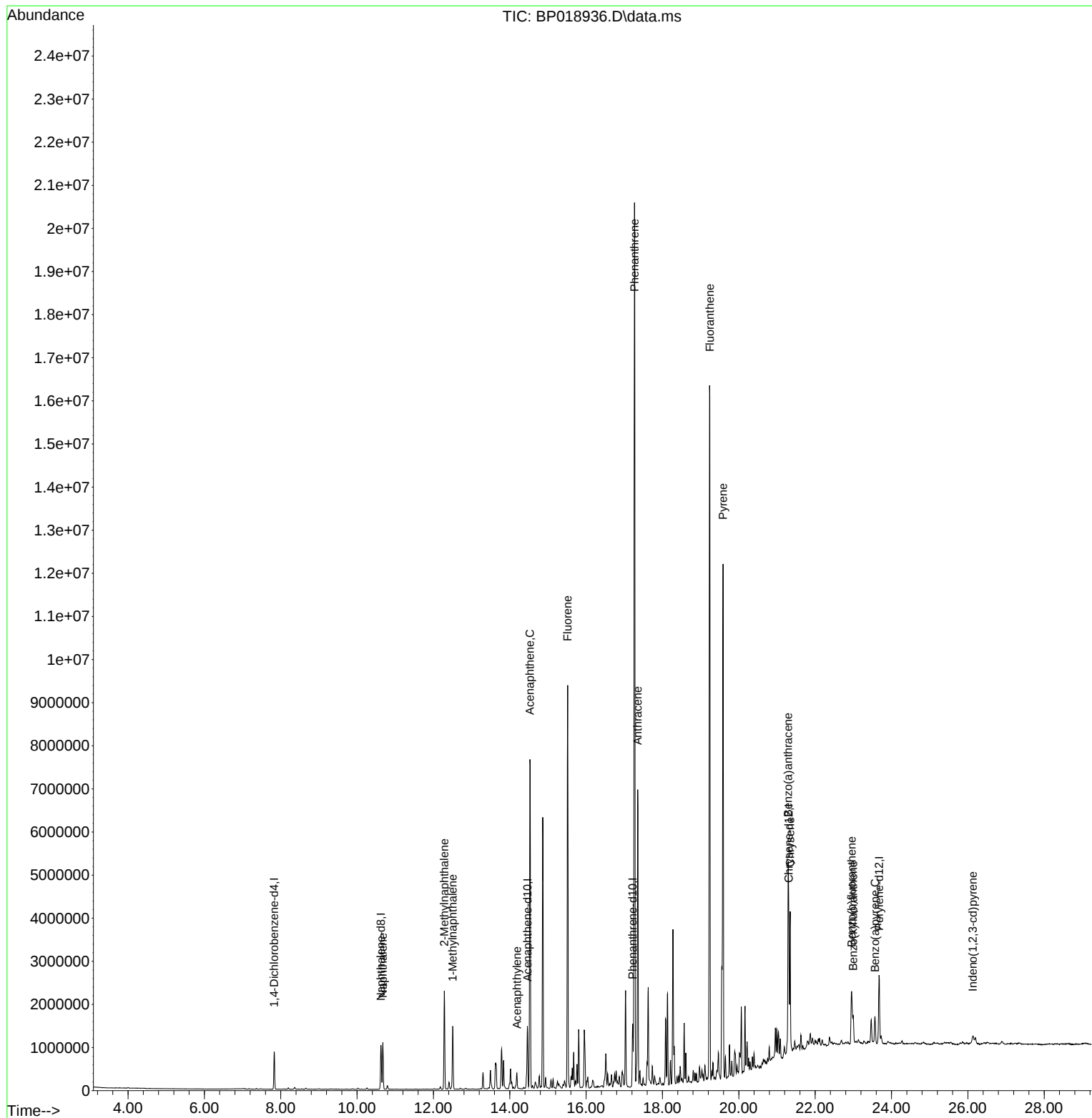
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP121823\  
Data File : BP018936.D  
Acq On : 19 Dec 2023 08:19  
Operator : MA/JU  
Sample : 05626-08DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

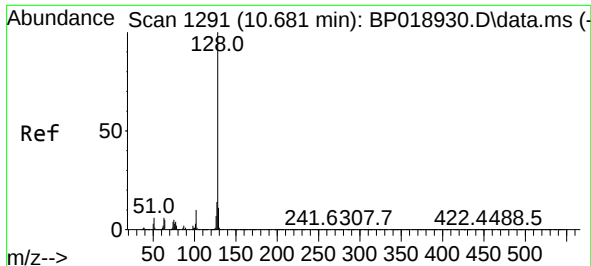
Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL

Quant Time: Dec 19 21:47:02 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP120123.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 19 05:28:03 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023





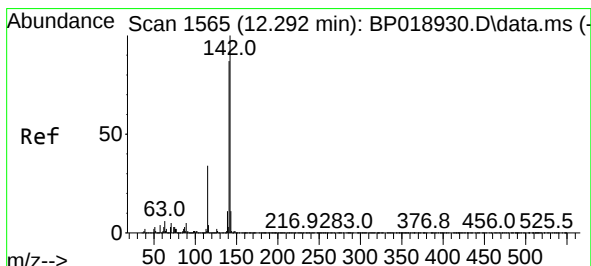
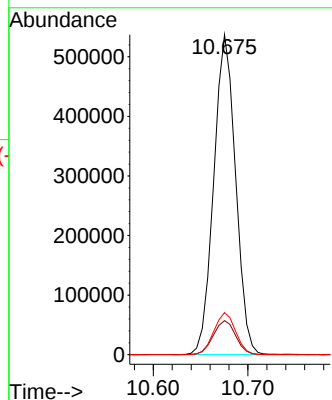
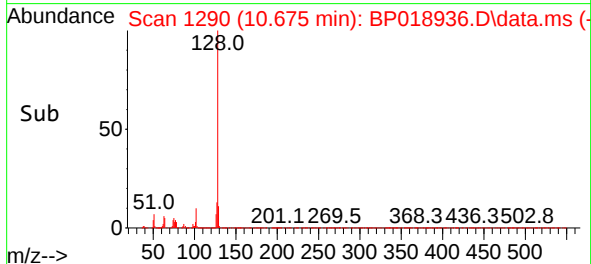
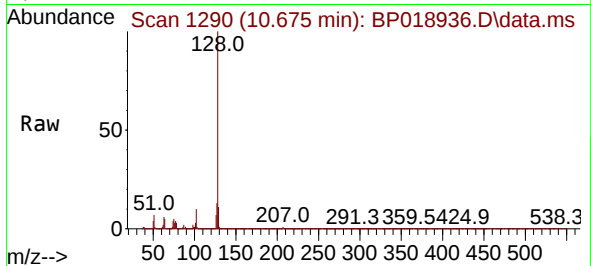
#30  
Naphthalene  
Concen: 16.092 ng/ul  
RT: 10.675 min Scan# 1290  
Delta R.T. -0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL

Tgt Ion:128 Resp: 86075  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.9 13.3  
127 13.1 10.5 15.7

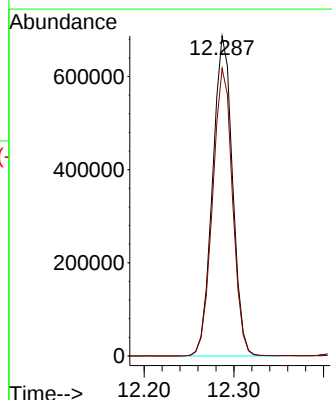
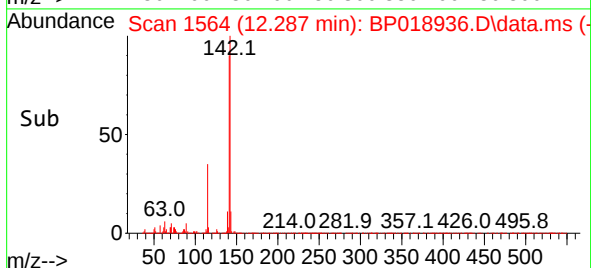
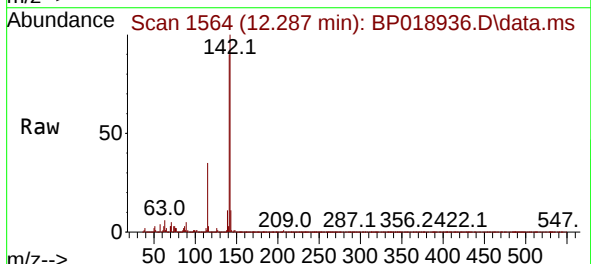
Manual Integrations  
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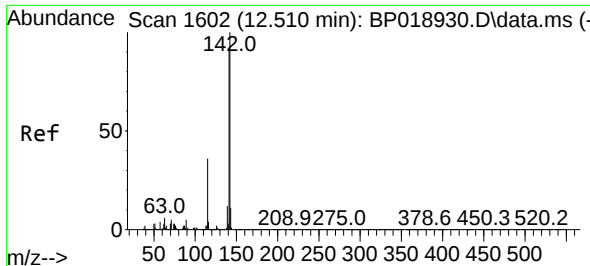
Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023



#36  
2-Methylnaphthalene  
Concen: 27.937 ng/ul  
RT: 12.287 min Scan# 1564  
Delta R.T. -0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

Tgt Ion:142 Resp: 1058624  
Ion Ratio Lower Upper  
142 100  
141 89.8 71.4 107.0





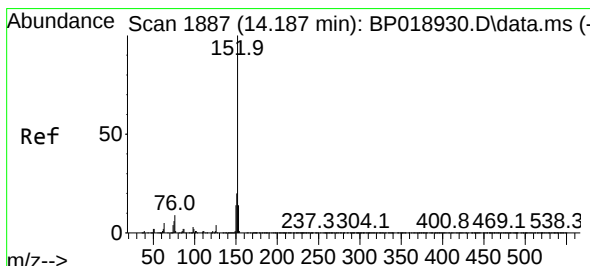
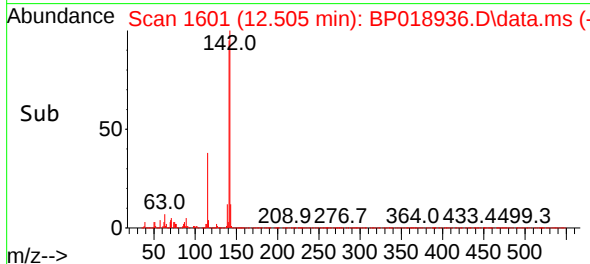
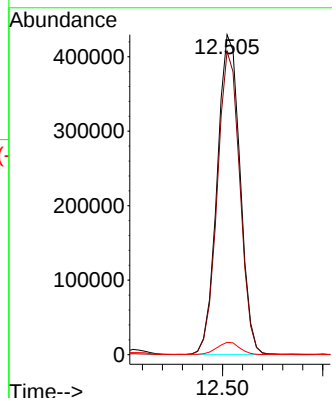
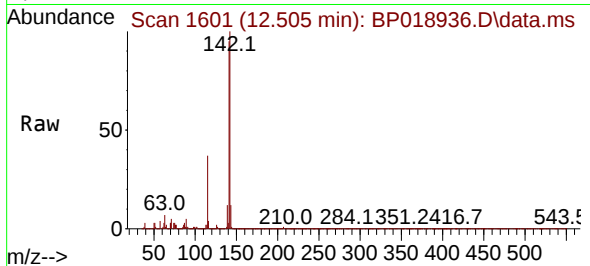
#37  
1-Methylnaphthalene  
Concen: 17.732 ng/ul  
RT: 12.505 min Scan# 1602  
Delta R.T. -0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL

Tgt Ion:142 Resp: 67855  
Ion Ratio Lower Upper  
142 100  
141 94.8 73.5 110.3  
116 3.9 2.8 4.2

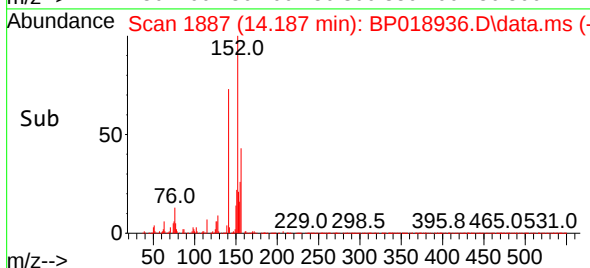
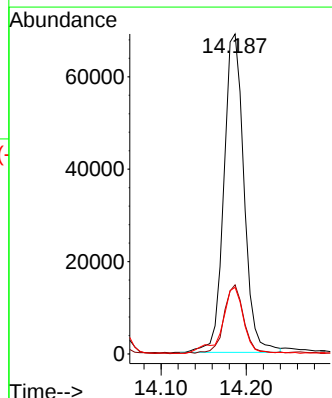
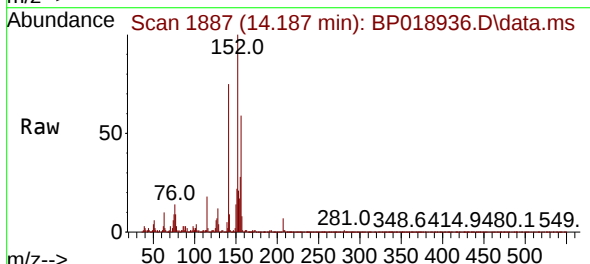
Manual Integrations  
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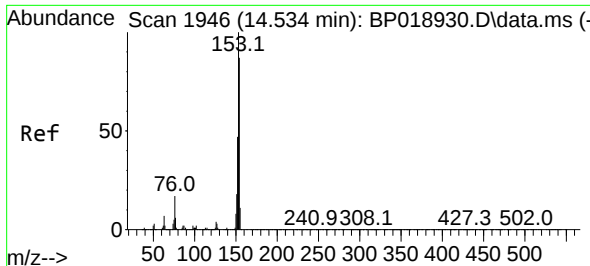
Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023



#50  
Acenaphthylene  
Concen: 2.040 ng/ul  
RT: 14.187 min Scan# 1887  
Delta R.T. 0.000 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

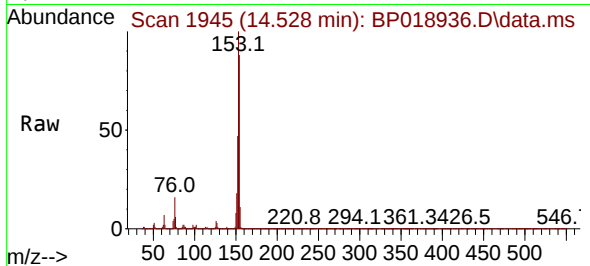
Tgt Ion:152 Resp: 113135  
Ion Ratio Lower Upper  
152 100  
151 21.6 15.9 23.9  
153 20.8 10.6 16.0#





#52  
Acenaphthene  
Concen: 90.538 ng/u1  
RT: 14.528 min Scan# 1945  
Delta R.T. -0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

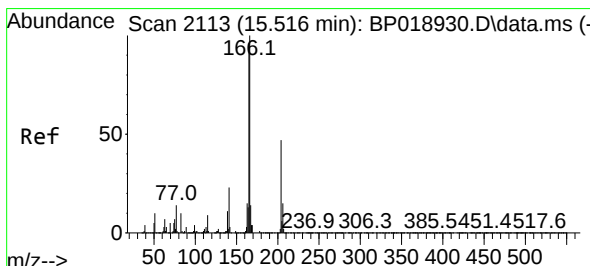
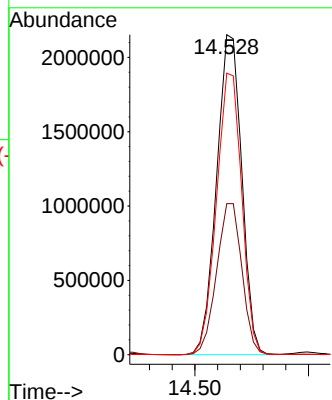
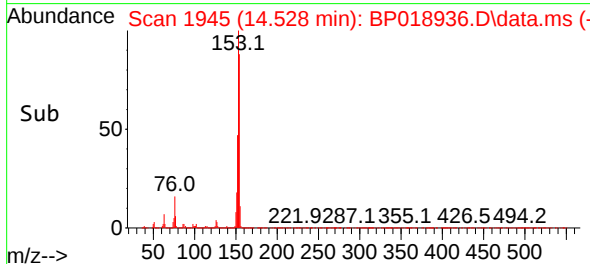
Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL



Tgt Ion:153 Resp: 332059  
Ion Ratio Lower Upper  
153 100  
152 47.2 38.1 57.1  
154 88.0 71.7 107.5

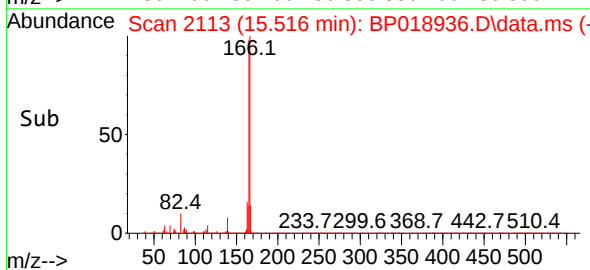
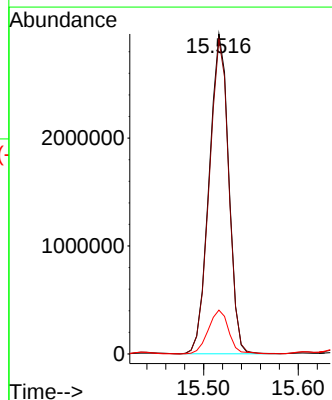
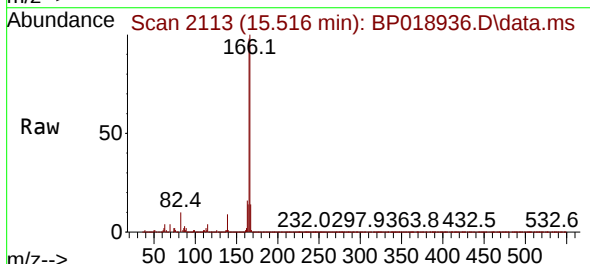
Manual Integrations  
APPROVED

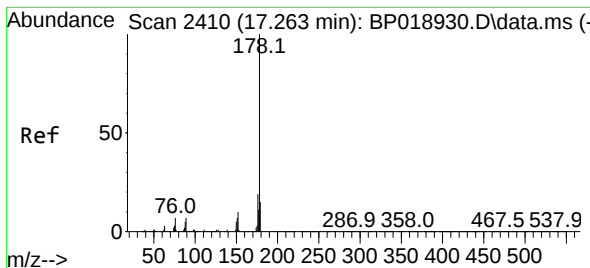
Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023



#61  
Fluorene  
Concen: 105.639 ng/u1  
RT: 15.516 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

Tgt Ion:166 Resp: 4260906  
Ion Ratio Lower Upper  
166 100  
165 98.4 78.0 117.0  
167 13.7 10.8 16.2





#72

Phenanthrene

Concen: 249.937 ng/ul

RT: 17.269 min Scan# 2410

Delta R.T. 0.006 min

Lab File: BP018936.D

Acq: 19 Dec 2023 08:19

Instrument :

BNA\_P

ClientSampleId :

DCLF4DL

Tgt Ion:178 Resp:14928410

Ion Ratio Lower Upper

178 100

179 17.5 12.3 18.5

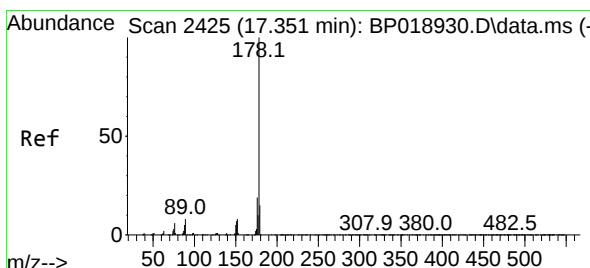
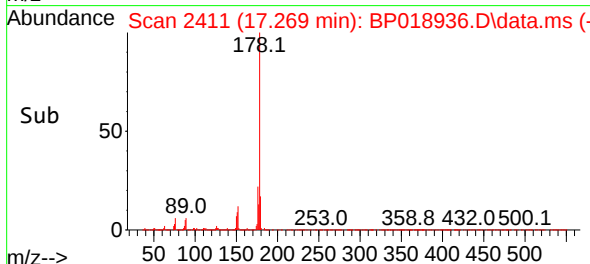
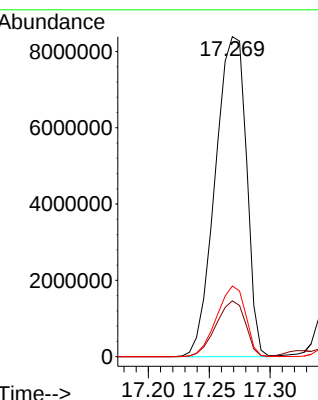
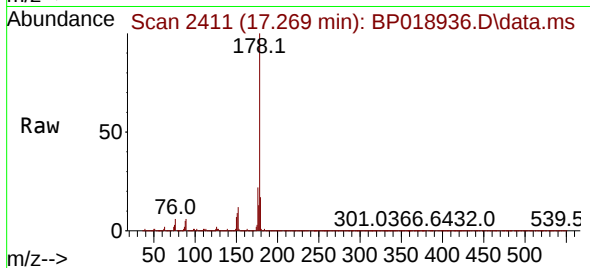
176 22.1 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/20/2023

Supervised By :mohammad ahmed 12/20/2023



#74

Anthracene

Concen: 71.584 ng/ul

RT: 17.351 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BP018936.D

Acq: 19 Dec 2023 08:19

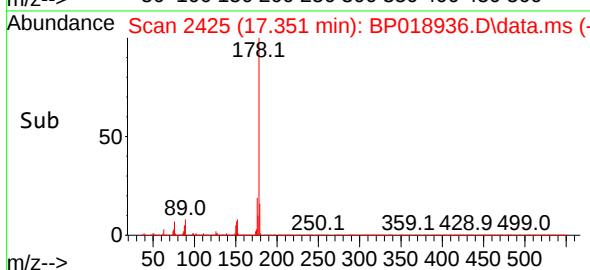
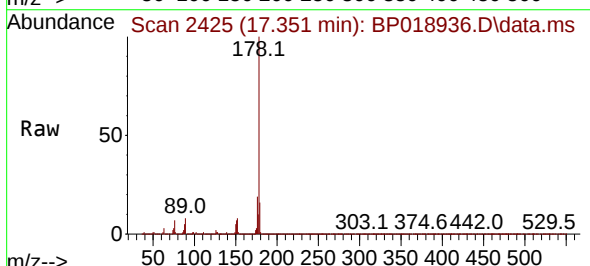
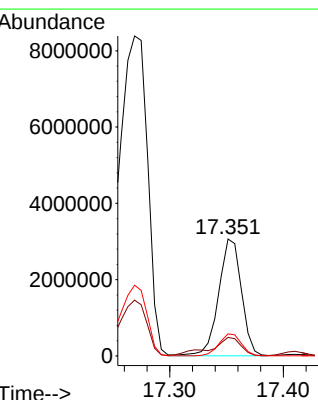
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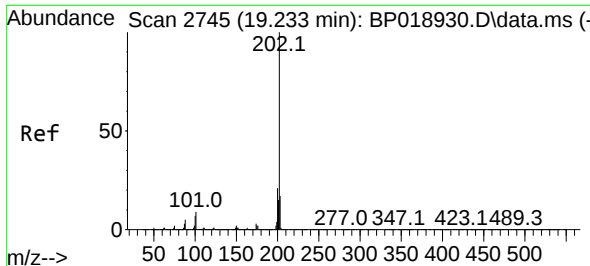
Ion Ratio Lower Upper

178 100

179 15.8 12.5 18.7

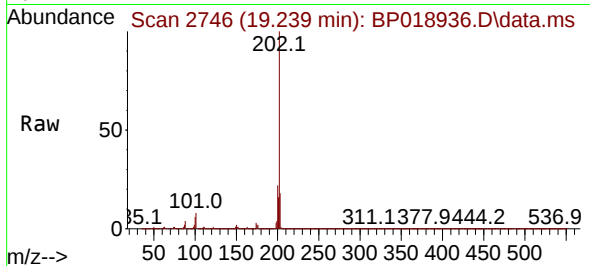
176 18.9 15.0 22.6





#80  
Fluoranthene  
Concen: 114.763 ng/ul m  
RT: 19.239 min Scan# 2746  
Delta R.T. 0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

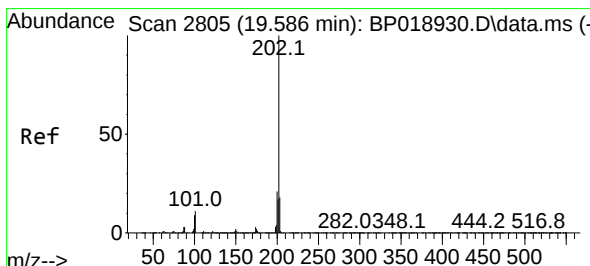
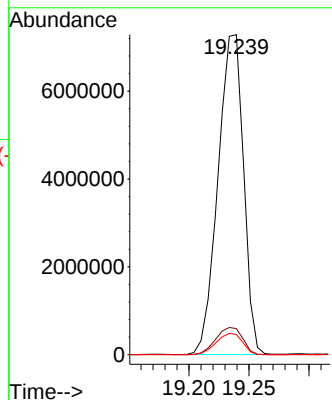
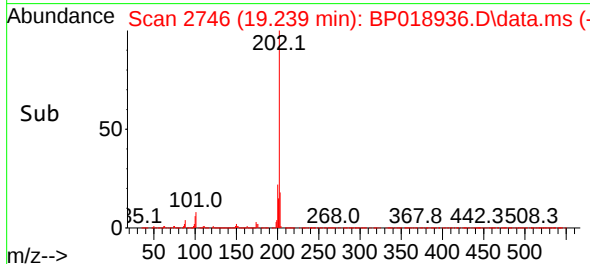
Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL



Tgt Ion:202 Resp:10801189  
Ion Ratio Lower Upper  
202 100  
101 8.2 9.1 13.7#  
100 6.3 7.1 10.7#

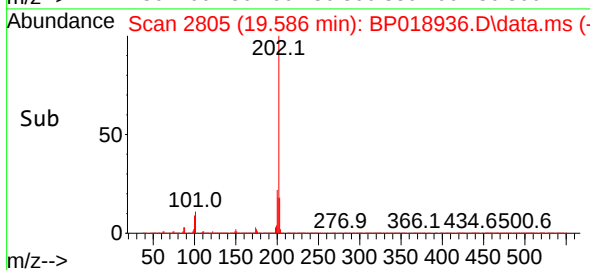
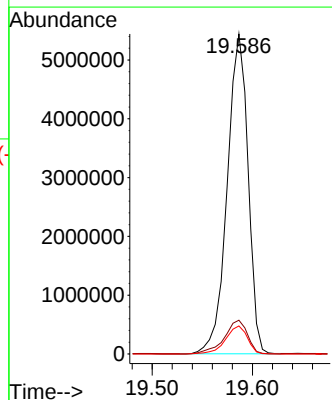
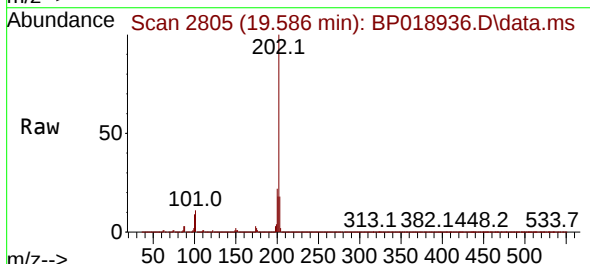
Manual Integrations  
APPROVED

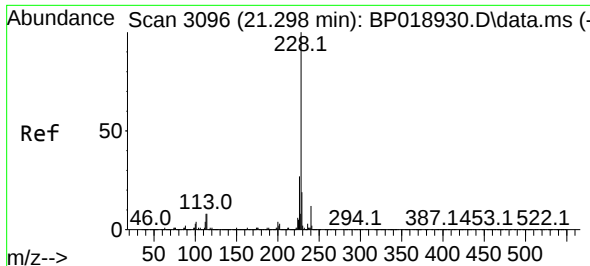
Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023



#82  
Pyrene  
Concen: 82.623 ng/ul  
RT: 19.586 min Scan# 2805  
Delta R.T. 0.000 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

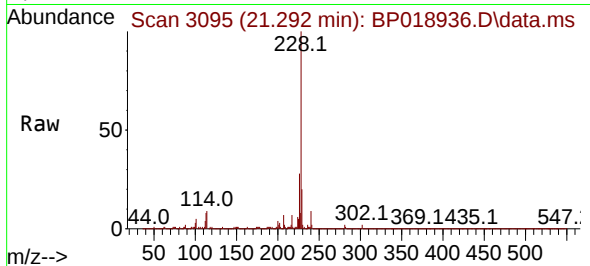
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Ion Ratio Lower Upper  
202 100  
101 10.6 11.0 16.4#  
100 8.8 9.1 13.7#





#85  
Benzo(a)anthracene  
Concen: 24.209 ng/u1  
RT: 21.292 min Scan# 3096  
Delta R.T. -0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

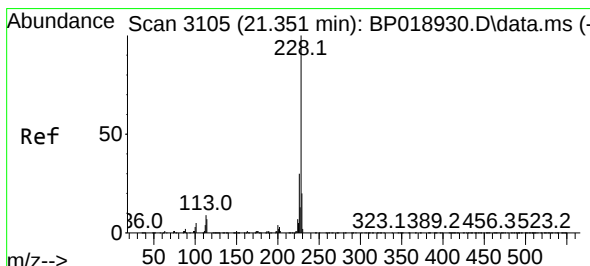
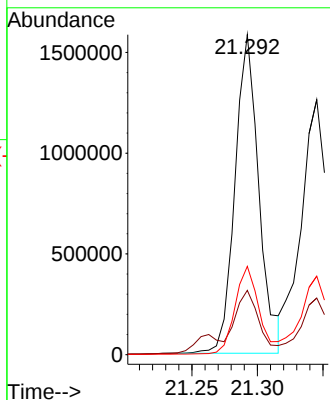
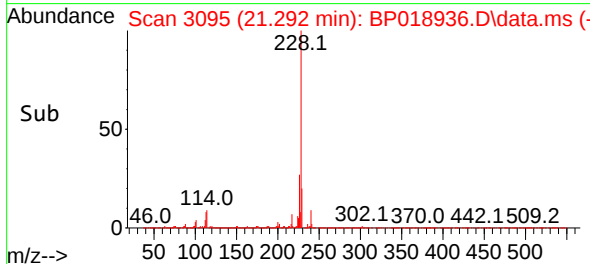
Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL



Tgt Ion:228 Resp: 2009940  
Ion Ratio Lower Upper  
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229 20.1 15.7 23.5  
226 27.6 21.9 32.9

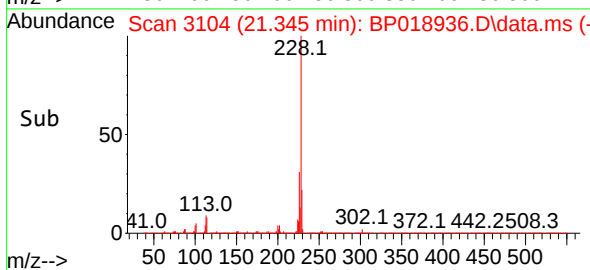
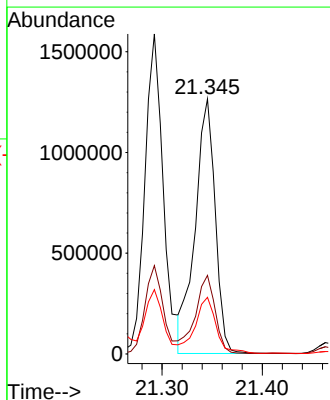
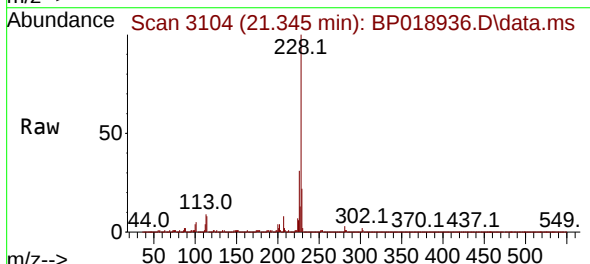
Manual Integrations  
APPROVED

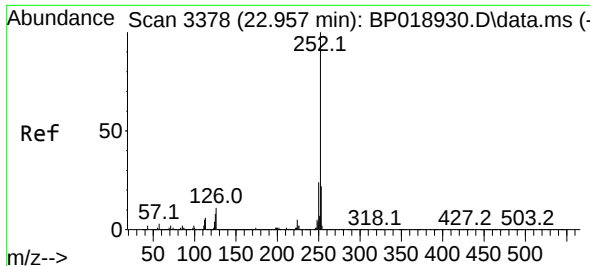
Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023



#87  
Chrysene  
Concen: 23.050 ng/u1  
RT: 21.345 min Scan# 3104  
Delta R.T. -0.006 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

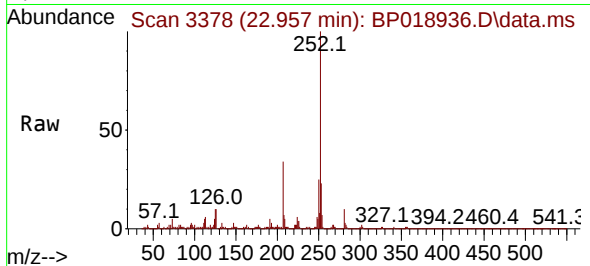
Tgt Ion:228 Resp: 1762310  
Ion Ratio Lower Upper  
228 100  
226 30.8 23.9 35.9  
229 22.2 15.6 23.4





#90  
Benzo(b)fluoranthene  
Concen: 12.466 ng/ul  
RT: 22.957 min Scan# 3378  
Delta R.T. 0.000 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

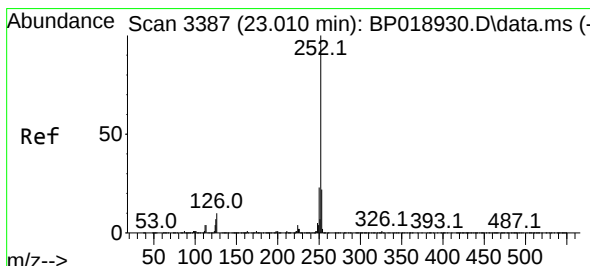
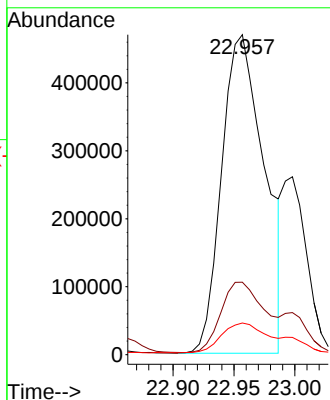
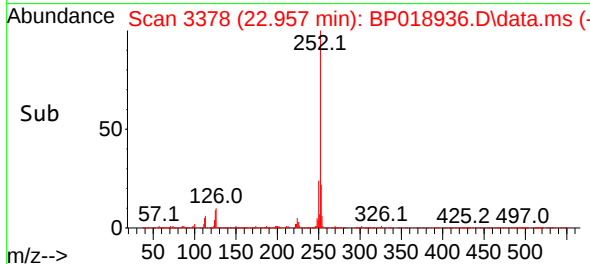
Instrument :  
BNA\_P  
ClientSampleId :  
DCLF4DL



Tgt Ion:252 Resp: 1146340  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.3 25.9  
125 9.9 7.8 11.6

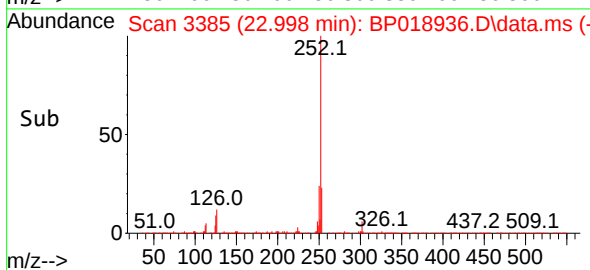
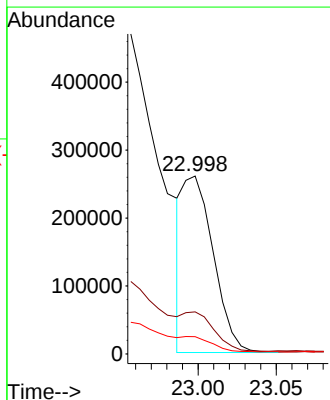
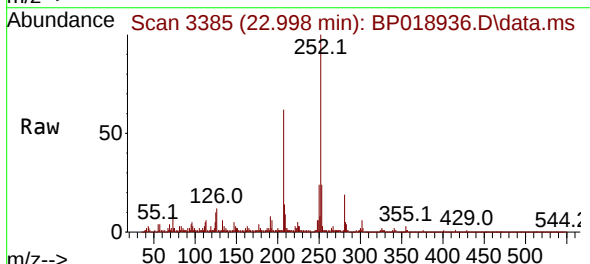
Manual Integrations  
APPROVED

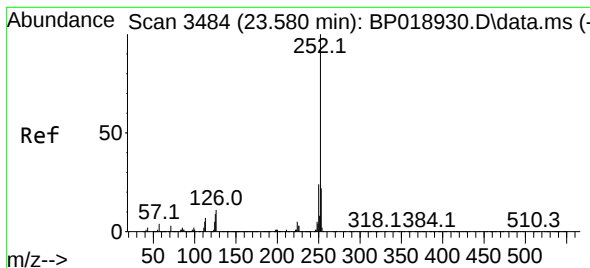
Reviewed By :Yogesh Patel 12/20/2023  
Supervised By :mohammad ahmed 12/20/2023



#91  
Benzo(k)fluoranthene  
Concen: 3.956 ng/ul m  
RT: 22.998 min Scan# 3385  
Delta R.T. -0.012 min  
Lab File: BP018936.D  
Acq: 19 Dec 2023 08:19

Tgt Ion:252 Resp: 351996  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.7 26.5  
125 9.7 8.0 12.0





#93

Benzo(a)pyrene

Concen: 5.705 ng/ul

RT: 23.569 min Scan# 3482

Delta R.T. -0.011 min

Lab File: BP018936.D

Acq: 19 Dec 2023 08:19

Instrument :

BNA\_P

ClientSampleId :

DCLF4DL

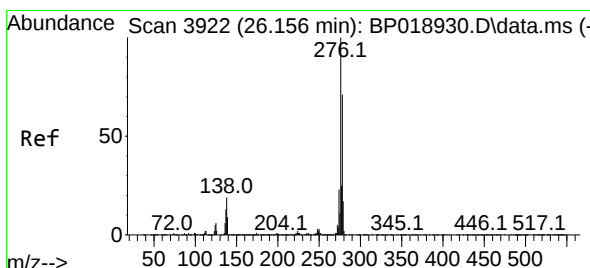
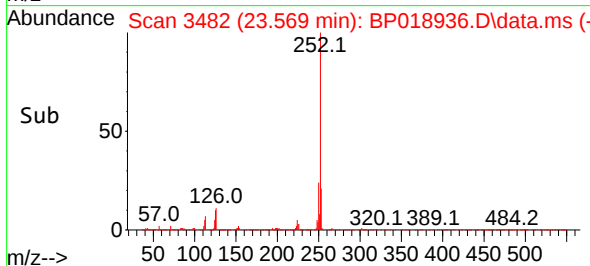
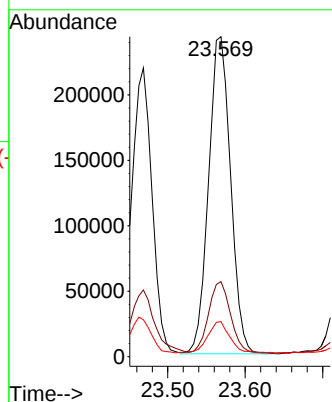
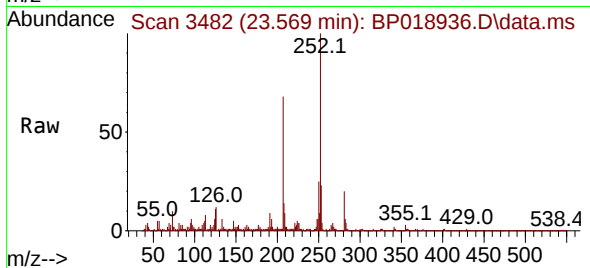
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 47937 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 17.8  | 26.8  |
| 125       | 10.9  | 9.2   | 13.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/20/2023

Supervised By :mohammad ahmed 12/20/2023



#94

Indeno(1,2,3-cd)pyrene

Concen: 2.045 ng/ul

RT: 26.133 min Scan# 3918

Delta R.T. -0.023 min

Lab File: BP018936.D

Acq: 19 Dec 2023 08:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 205270 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.1  | 19.4  | 29.2#  |
| 277       | 24.8  | 19.8  | 29.6   |

