

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122623\  
 Data File : BF136741.D  
 Acq On : 27 Dec 2023 02:43  
 Operator : CG\JU  
 Sample : 05602-07  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROUTE-4-TP-4

Quant Time: Dec 27 04:03:34 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :Yogesh Patel 12/27/2023  
 Supervised By :mohammad ahmed 12/27/2023

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.781  | 152  | 66692    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.057  | 136  | 221573   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.816  | 164  | 90562    | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.310 | 188  | 158881   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 13.963 | 240  | 146091   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.445 | 264  | 96348    | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.428  | 112  | 324555   | 75.931 | ng    | 0.00     |
| 7) Phenol-d6                | 6.428  | 99   | 378314   | 68.306 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.345  | 82   | 223900   | 51.708 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.610 | 330  | 71240    | 66.794 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.133  | 172  | 373690   | 55.499 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.904 | 244  | 374149   | 35.790 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.333 | 178  | 82181    | 10.081 | ng    | 99       |
| 72) Anthracene              | 11.380 | 178  | 28607    | 3.465  | ng    | 99       |
| 75) Fluoranthene            | 12.527 | 202  | 120732   | 13.845 | ng    | 99       |
| 78) Pyrene                  | 12.757 | 202  | 116189   | 8.102  | ng    | 100      |
| 81) Benzo(a)anthracene      | 13.951 | 228  | 55306    | 5.452  | ng    | 98       |
| 83) Chrysene                | 13.986 | 228  | 46401    | 4.677  | ng    | 94       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.939 | 276  | 14190    | 2.040  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.010 | 252  | 35788m   | 5.561  | ng    |          |
| 90) Benzo(a)pyrene          | 15.380 | 252  | 26447    | 4.869  | ng    | 94       |
| 92) Benzo(g,h,i)perylene    | 17.392 | 276  | 13661    | 2.337  | ng    | # 82     |
| -----                       |        |      |          |        |       |          |

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

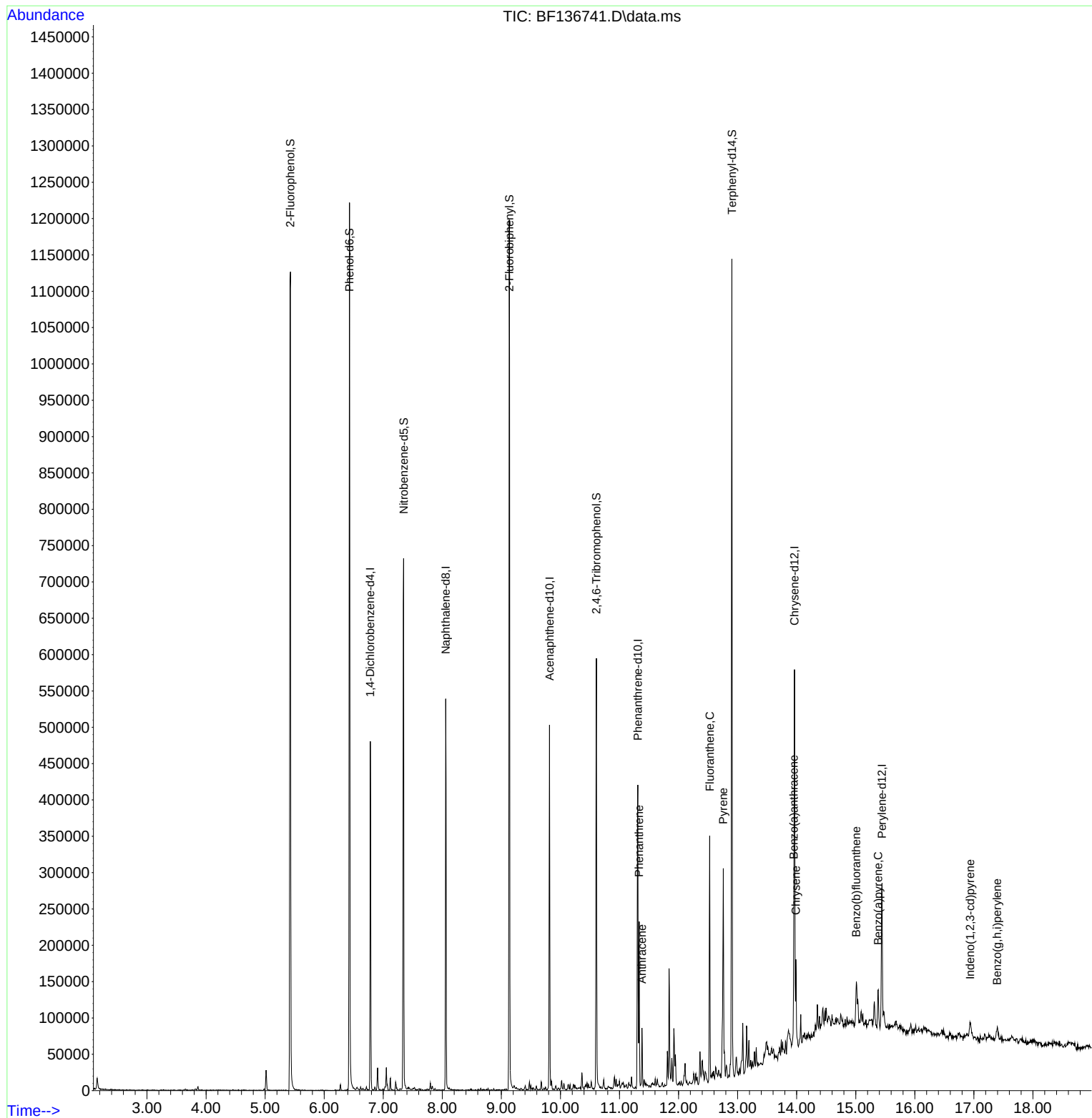
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122623\  
Data File : BF136741.D  
Acq On : 27 Dec 2023 02:43  
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ALS Vial : 18 Sample Multiplier: 1

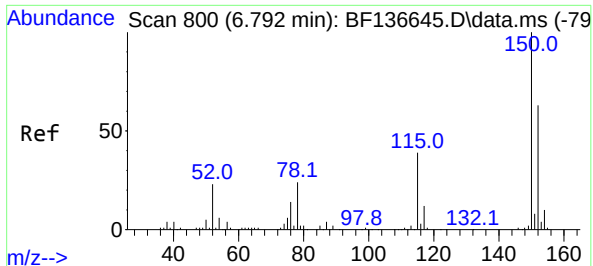
Instrument :  
BNA\_F  
ClientSampleId :  
ROUTE-4-TP-4

Quant Time: Dec 27 04:03:34 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 21 01:54:25 2023  
Response via : Initial Calibration

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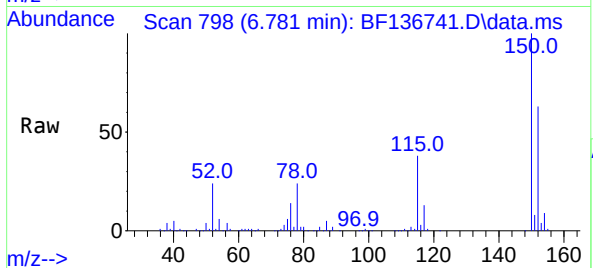
Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 79  
Delta R.T. -0.011 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

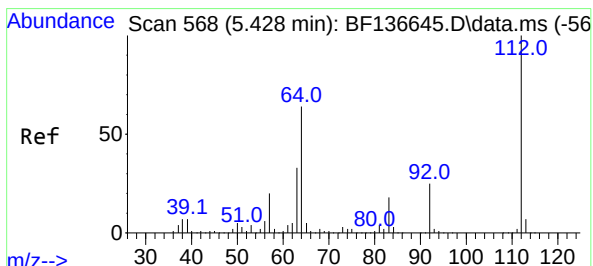
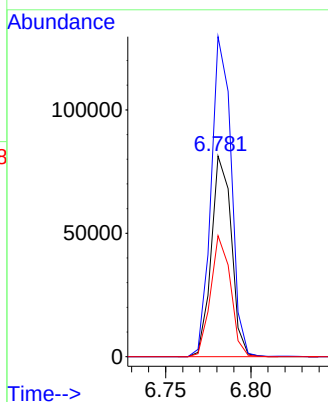
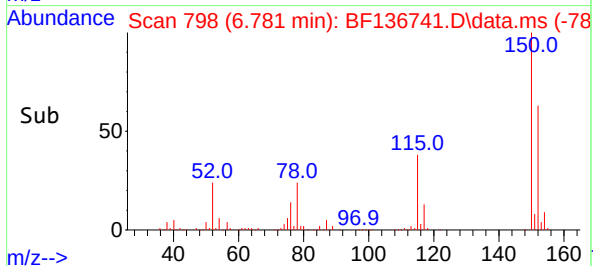
Instrument :  
BNA\_F  
ClientSampleId :  
ROUTE-4-TP-4



Tgt Ion:152 Resp: 66692  
Ion Ratio Lower Upper  
152 100  
150 159.5 127.0 190.6  
115 60.3 49.0 73.4

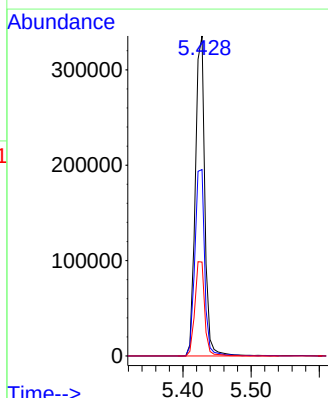
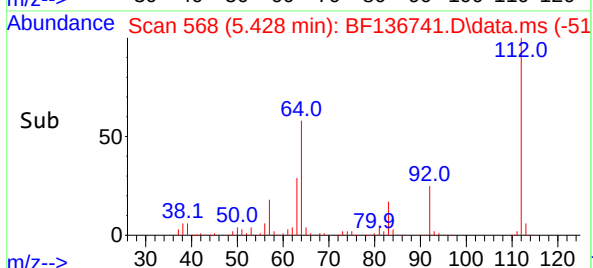
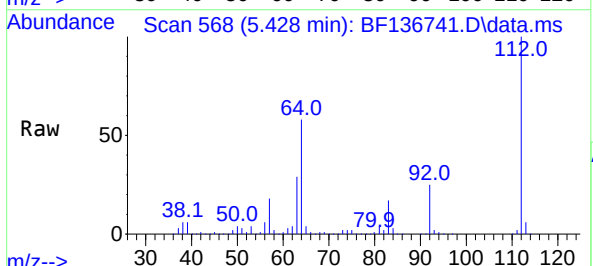
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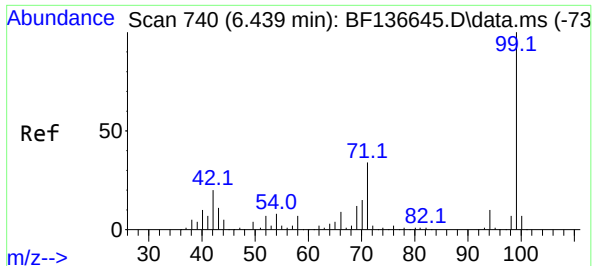
Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023



#5  
2-Fluorophenol  
Concen: 75.931 ng  
RT: 5.428 min Scan# 568  
Delta R.T. 0.000 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

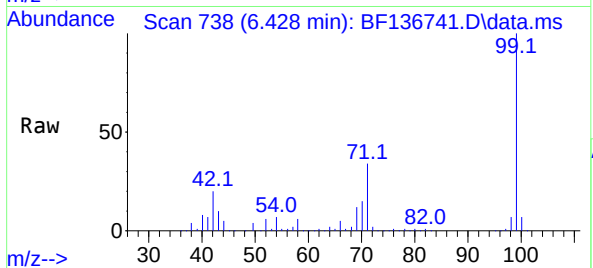
Tgt Ion:112 Resp: 324555  
Ion Ratio Lower Upper  
112 100  
64 58.2 51.1 76.7  
63 29.4 26.1 39.1





#7  
Phenol-d6  
Concen: 68.306 ng  
RT: 6.428 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

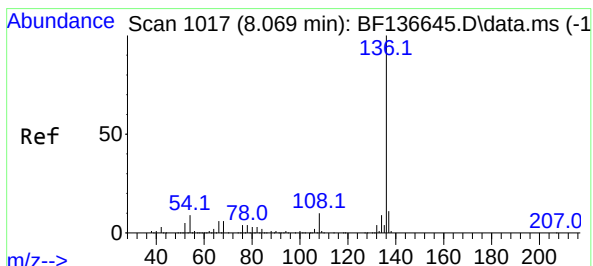
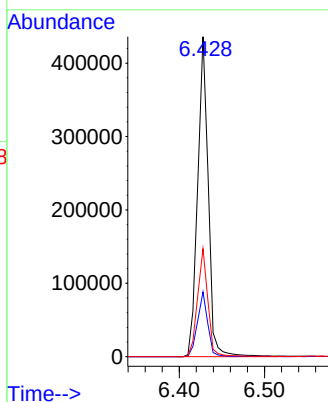
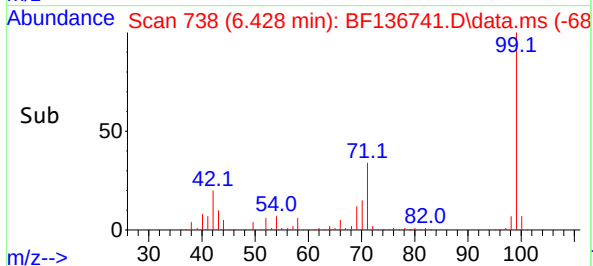
Instrument :  
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ClientSampleId :  
ROUTE-4-TP-4



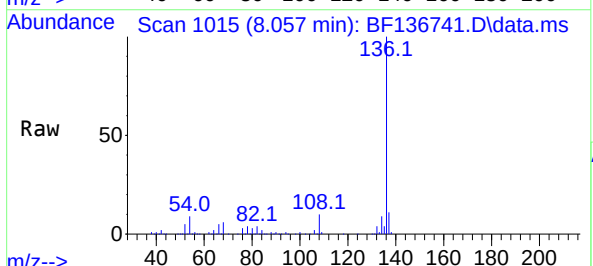
Tgt Ion: 99 Resp: 378314  
Ion Ratio Lower Upper  
99 100  
42 20.2 16.1 24.1  
71 33.8 27.4 41.2

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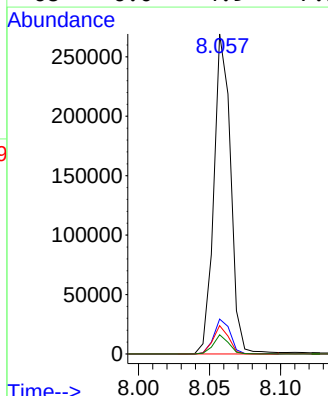
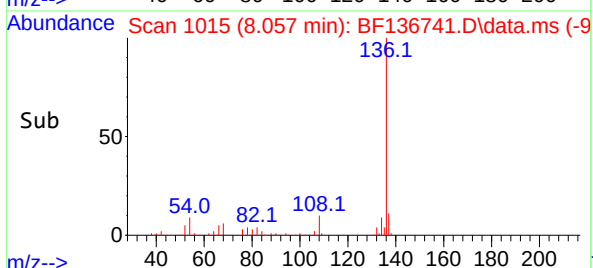
Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023

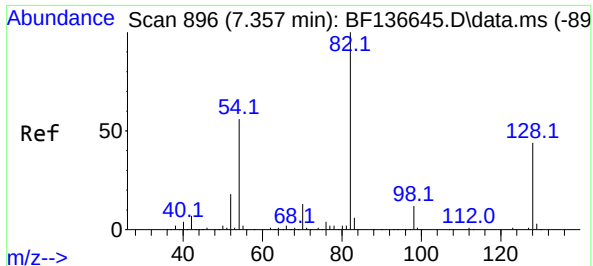


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.057 min Scan# 1015  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43



Tgt Ion:136 Resp: 221573  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.4  
54 8.8 7.2 10.8  
68 6.0 4.9 7.3





#23  
Nitrobenzene-d5  
Concen: 51.708 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Instrument :

BNA\_F

ClientSampleId :

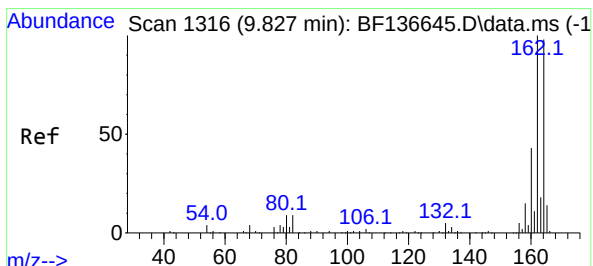
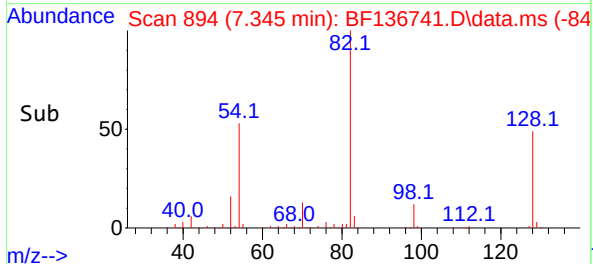
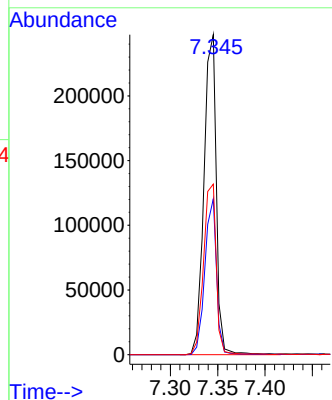
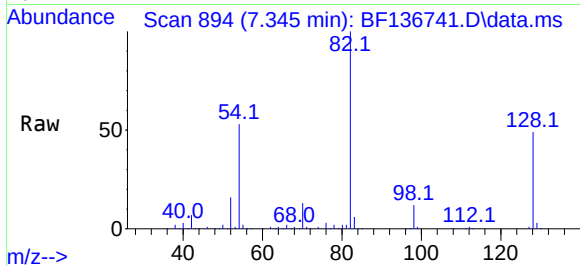
ROUTE-4-TP-4

Tgt Ion: 82 Resp: 223900  
Ion Ratio Lower Upper  
82 100  
128 48.7 35.3 52.9  
54 53.3 44.5 66.7

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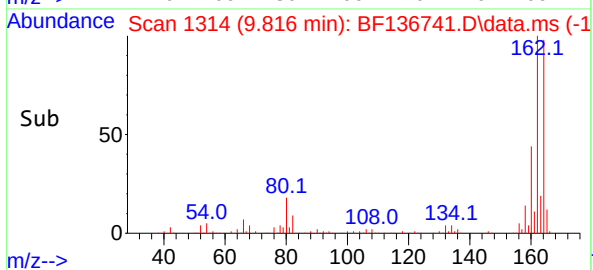
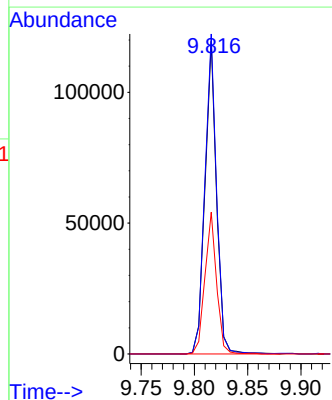
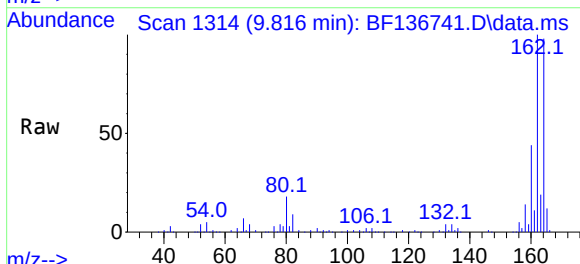
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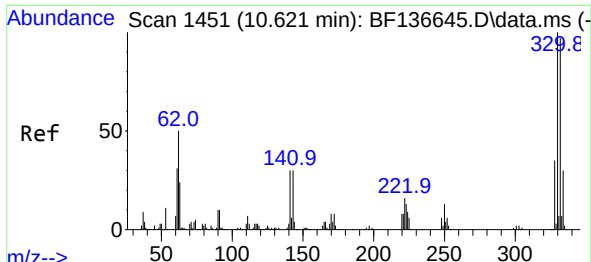
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Supervised By :mohammad ahmed 12/27/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Tgt Ion:164 Resp: 90562  
Ion Ratio Lower Upper  
164 100  
162 102.3 81.6 122.4  
160 45.3 34.9 52.3





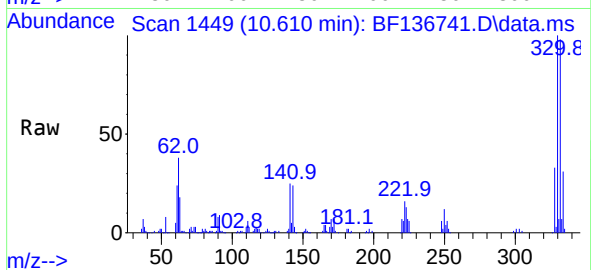
#42  
2,4,6-Tribromophenol  
Concen: 66.794 ng  
RT: 10.610 min Scan# 1451  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Instrument :

BNA\_F

ClientSampleId :

ROUTE-4-TP-4

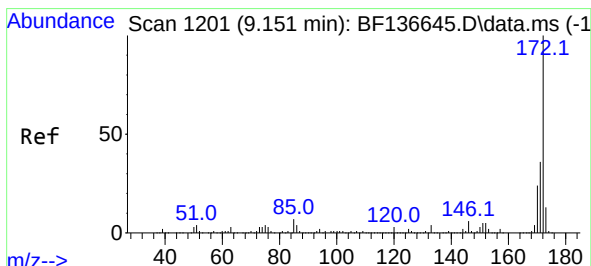
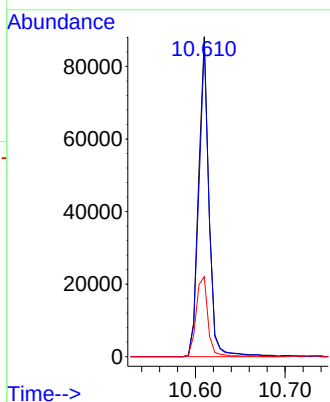
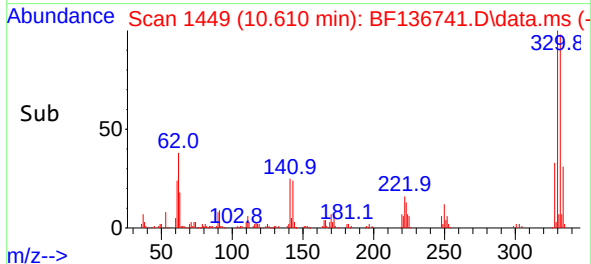


Tgt Ion:330 Resp: 71240  
Ion Ratio Lower Upper  
330 100  
332 95.5 77.4 116.0  
141 28.6 23.4 35.2

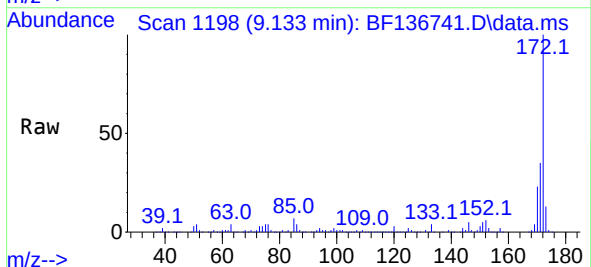
Manual Integrations

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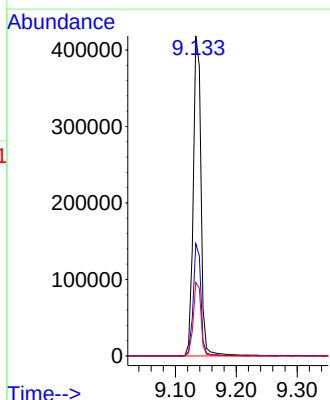
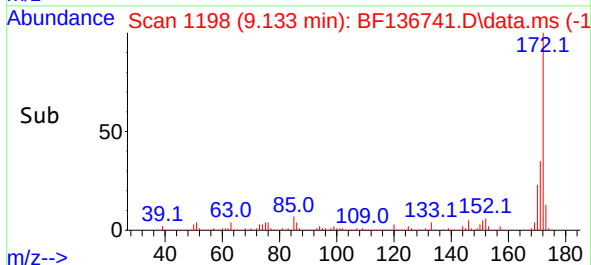
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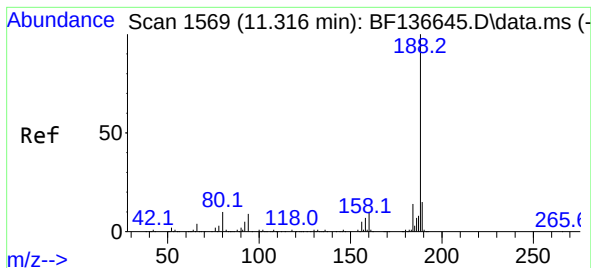


#45  
2-Fluorobiphenyl  
Concen: 55.499 ng  
RT: 9.133 min Scan# 1198  
Delta R.T. -0.018 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43



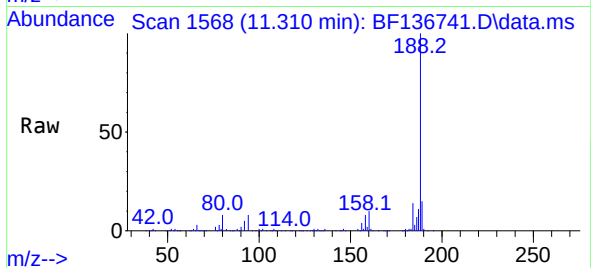
Tgt Ion:172 Resp: 373690  
Ion Ratio Lower Upper  
172 100  
171 35.1 29.0 43.6  
170 23.0 19.0 28.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

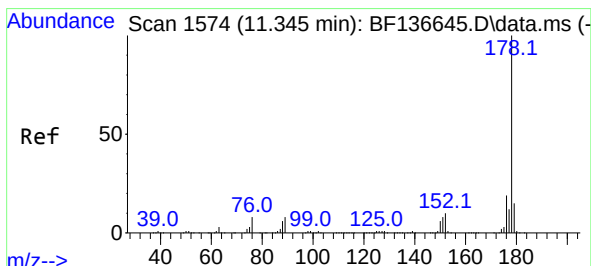
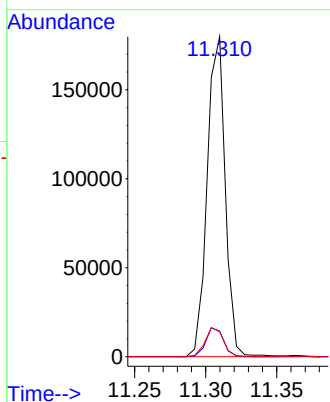
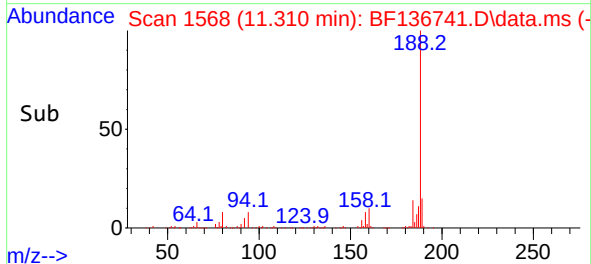
Instrument :  
BNA\_F  
ClientSampleId :  
ROUTE-4-TP-4



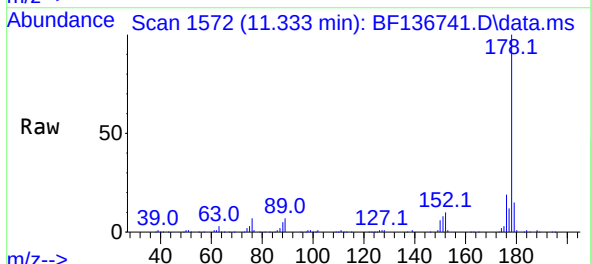
Tgt Ion:188 Resp: 15888  
Ion Ratio Lower Upper  
188 100  
94 8.0 7.5 11.3  
80 7.8 8.1 12.1

Manual Integrations  
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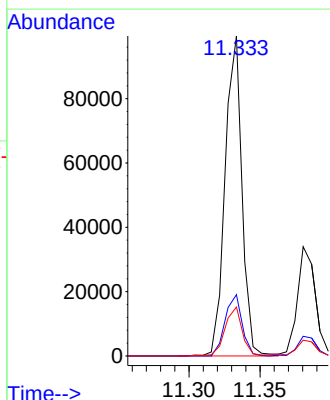
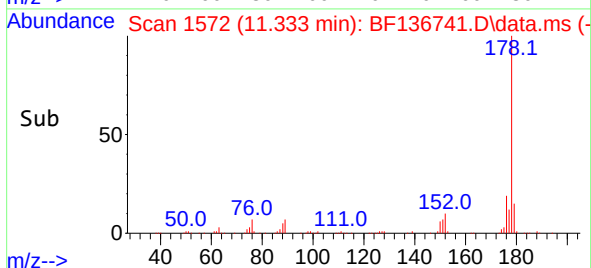
Reviewed By :Yogesh Patel 12/27/2023  
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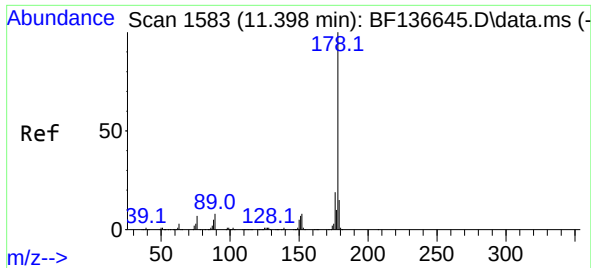


#71  
Phenanthrene  
Concen: 10.081 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43



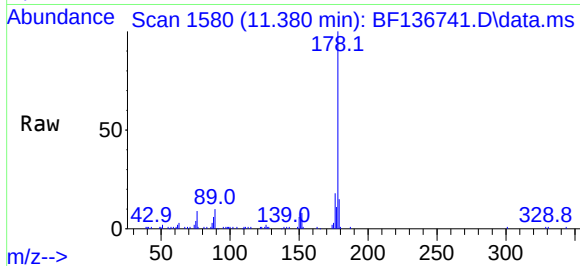
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Ion Ratio Lower Upper  
178 100  
176 19.2 15.3 22.9  
179 15.3 11.9 17.9





#72  
 Anthracene  
 Concen: 3.465 ng  
 RT: 11.380 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: BF136741.D  
 Acq: 27 Dec 2023 02:43

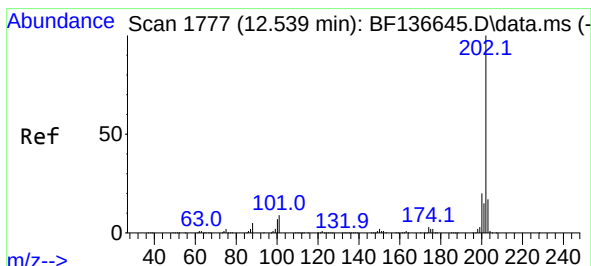
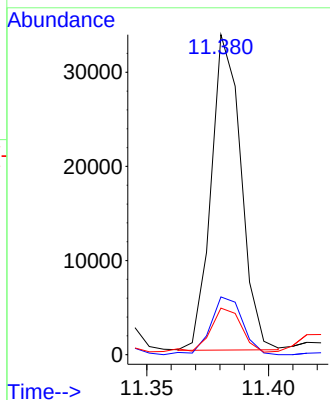
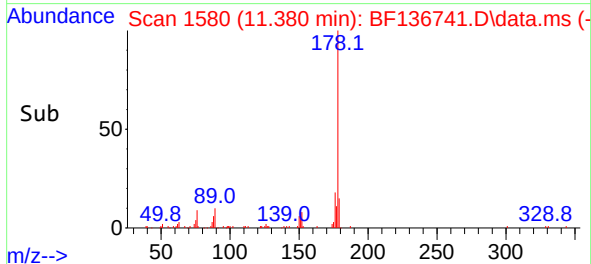
Instrument :  
 BNA\_F  
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 ROUTE-4-TP-4



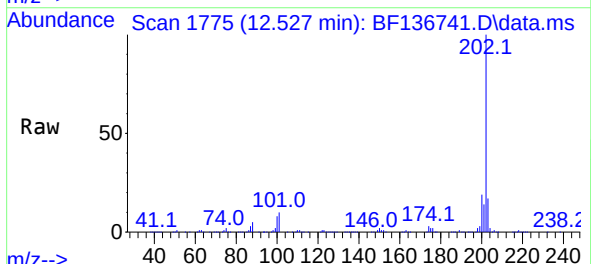
Tgt Ion:178 Resp: 2860  
 Ion Ratio Lower Upper  
 178 100  
 176 18.0 14.9 22.3  
 179 14.6 11.8 17.6

Manual Integrations  
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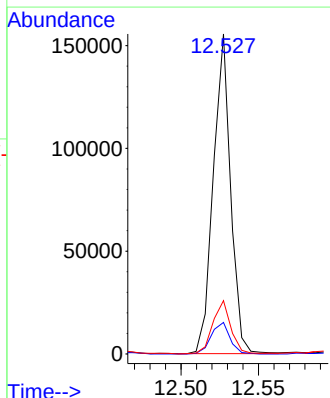
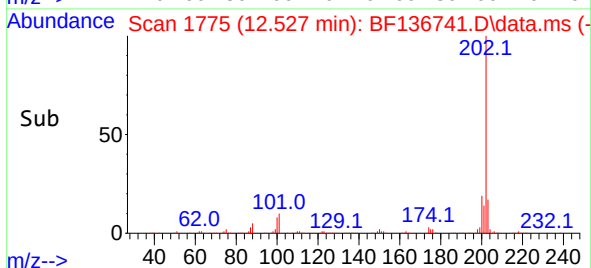
Reviewed By :Yogesh Patel 12/27/2023  
 Supervised By :mohammad ahmed 12/27/2023



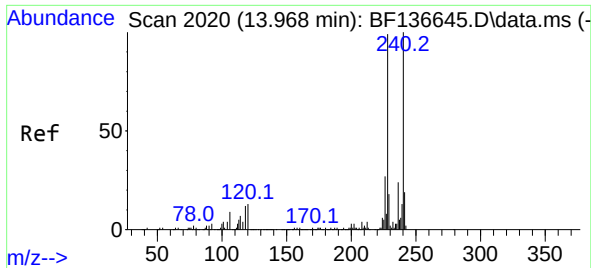
#75  
 Fluoranthene  
 Concen: 13.845 ng  
 RT: 12.527 min Scan# 1775  
 Delta R.T. -0.012 min  
 Lab File: BF136741.D  
 Acq: 27 Dec 2023 02:43



Tgt Ion:202 Resp: 120732  
 Ion Ratio Lower Upper  
 202 100  
 101 9.8 0.0 29.3  
 203 16.6 0.0 37.1







#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.963 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Instrument :

BNA\_F

ClientSampleId :

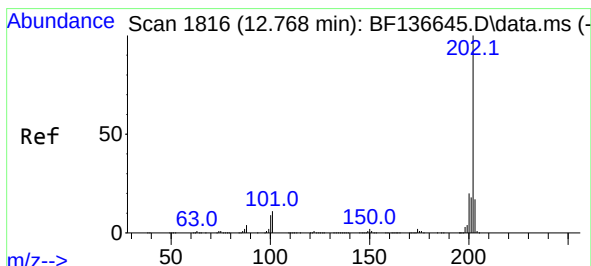
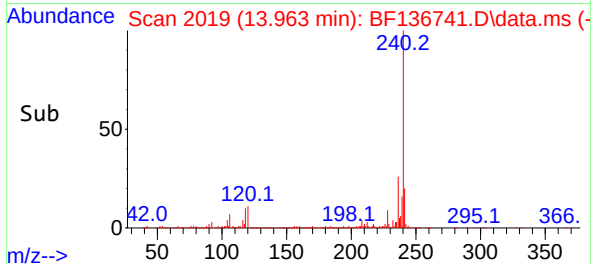
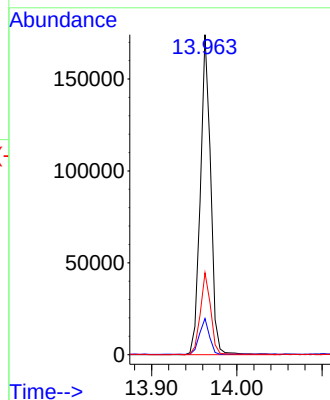
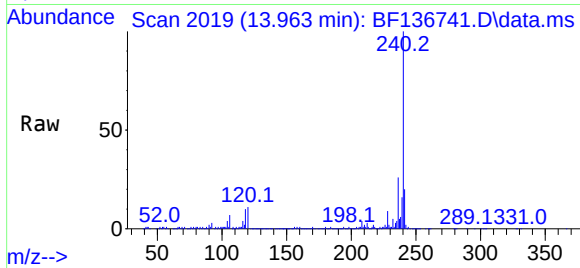
ROUTE-4-TP-4

Tgt Ion:240 Resp: 14609  
Ion Ratio Lower Upper  
240 100  
120 11.3 10.3 15.5  
236 25.6 19.4 29.2

Manual Integrations

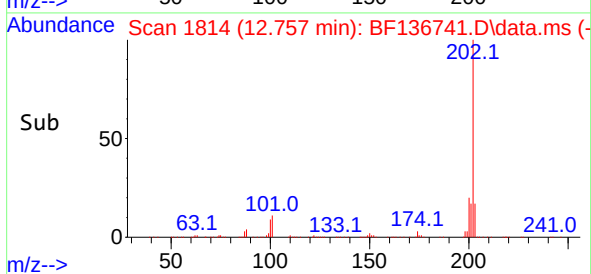
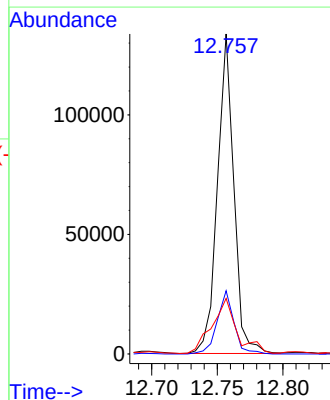
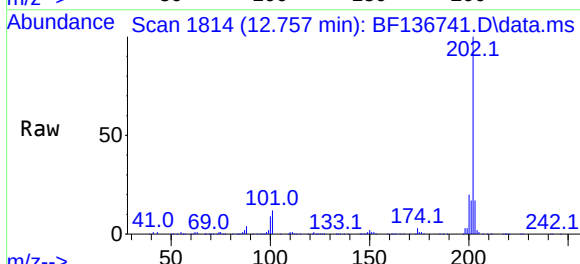
APPROVED

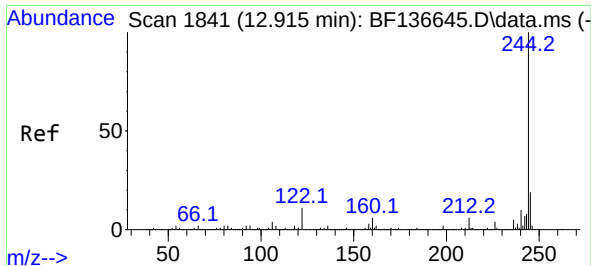
Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023



#78  
Pyrene  
Concen: 8.102 ng  
RT: 12.757 min Scan# 1814  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Tgt Ion:202 Resp: 116189  
Ion Ratio Lower Upper  
202 100  
200 19.7 15.9 23.9  
203 17.4 13.8 20.6





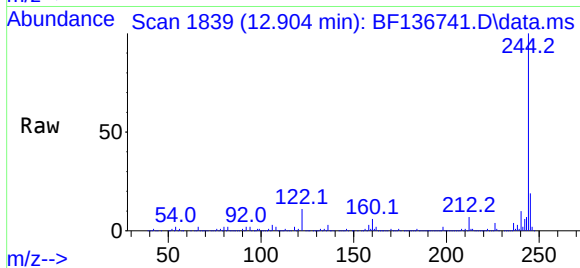
#79  
 Terphenyl-d14  
 Concen: 35.790 ng  
 RT: 12.904 min Scan# 1839  
 Delta R.T. -0.012 min  
 Lab File: BF136741.D  
 Acq: 27 Dec 2023 02:43

Instrument :

BNA\_F

ClientSampleId :

ROUTE-4-TP-4

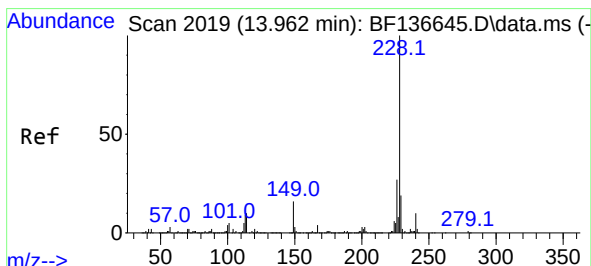
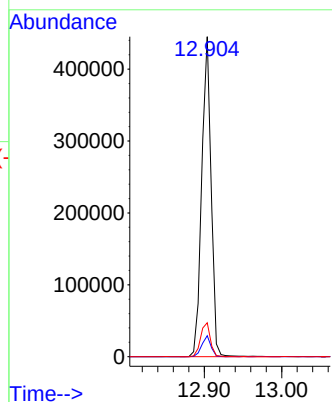
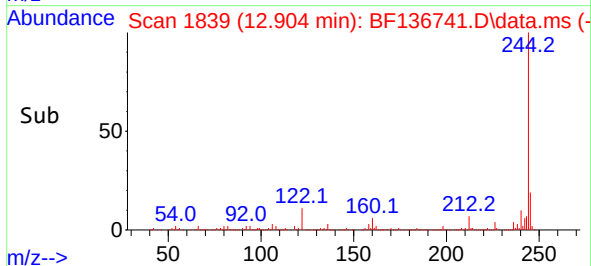


Tgt Ion:244 Resp: 374149  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.0 7.4  
 122 10.6 9.0 13.4

Manual Integrations

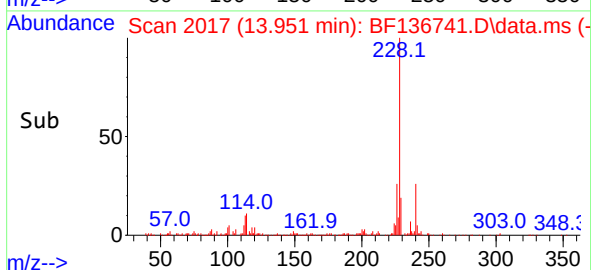
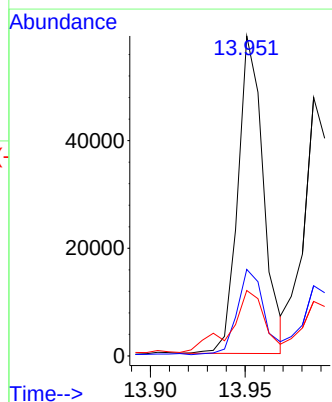
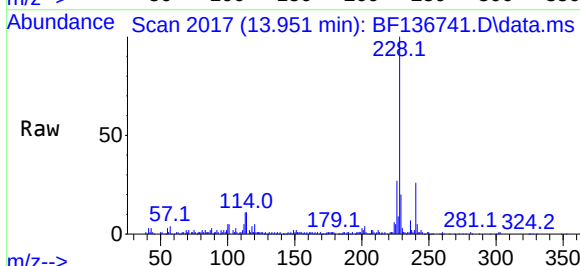
APPROVED

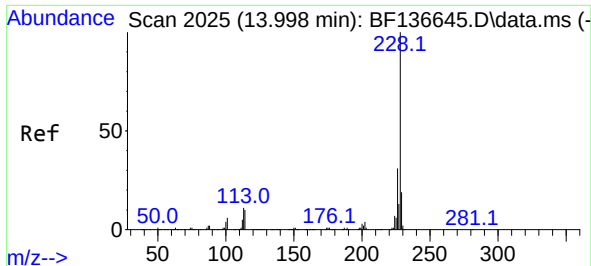
Reviewed By :Yogesh Patel 12/27/2023  
 Supervised By :mohammad ahmed 12/27/2023



#81  
 Benzo(a)anthracene  
 Concen: 5.452 ng  
 RT: 13.951 min Scan# 2017  
 Delta R.T. -0.012 min  
 Lab File: BF136741.D  
 Acq: 27 Dec 2023 02:43

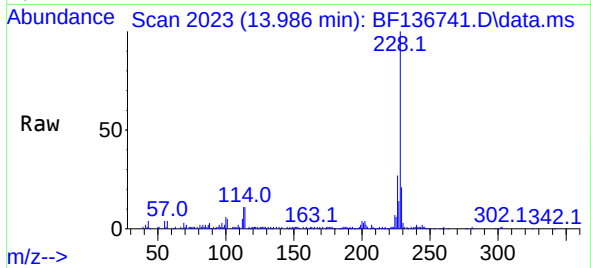
Tgt Ion:228 Resp: 55306  
 Ion Ratio Lower Upper  
 228 100  
 226 27.0 21.4 32.0  
 229 20.4 14.9 22.3





#83  
Chrysene  
Concen: 4.677 ng  
RT: 13.986 min Scan# 2023  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

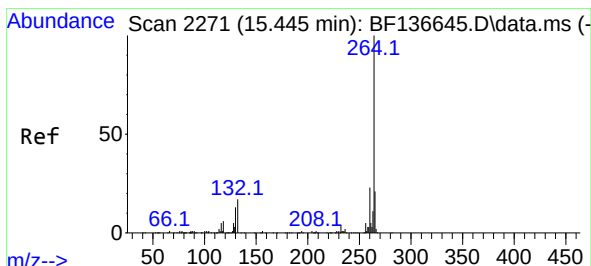
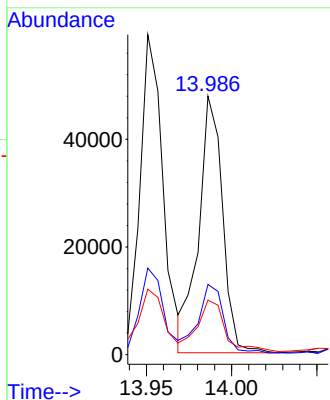
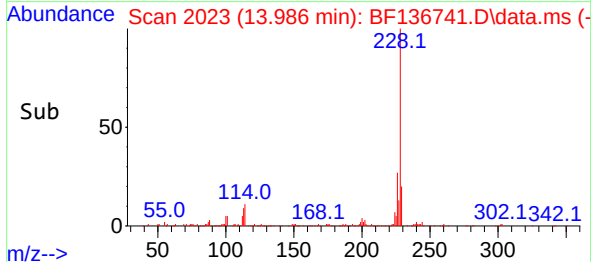
Instrument :  
BNA\_F  
ClientSampleId :  
ROUTE-4-TP-4



Tgt Ion:228 Resp: 4640  
Ion Ratio Lower Upper  
228 100  
226 27.2 24.7 37.1  
229 21.1 15.4 23.0

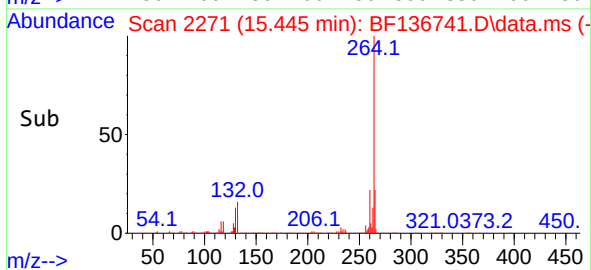
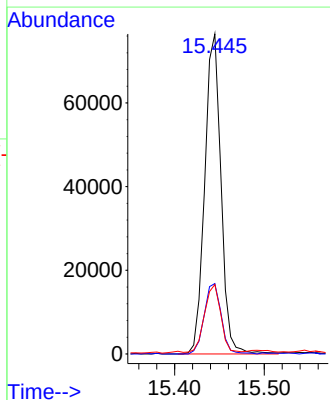
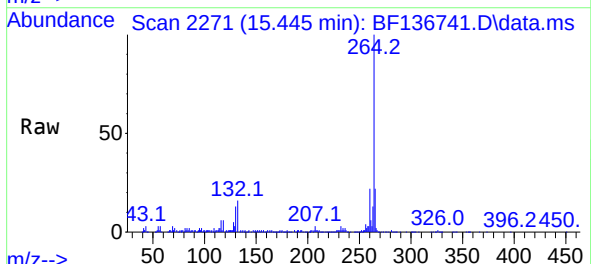
Manual Integrations  
APPROVED

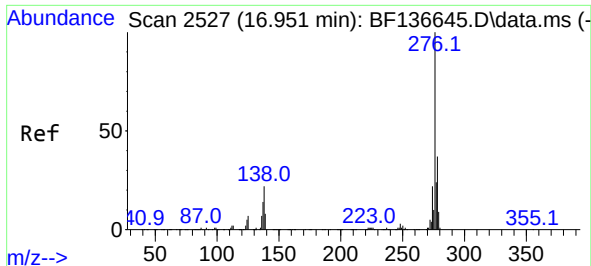
Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.445 min Scan# 2271  
Delta R.T. 0.000 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Tgt Ion:264 Resp: 96348  
Ion Ratio Lower Upper  
264 100  
260 22.0 18.3 27.5  
265 21.7 17.0 25.6





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.040 ng  
RT: 16.939 min Scan# 2190  
Delta R.T. -0.012 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Instrument :

BNA\_F

ClientSampleId :

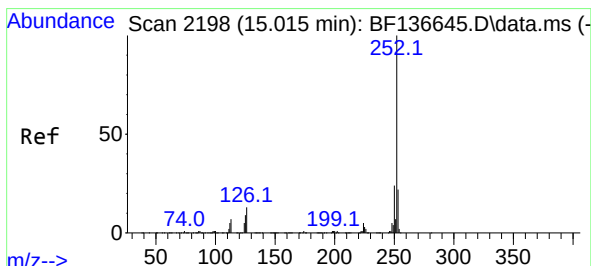
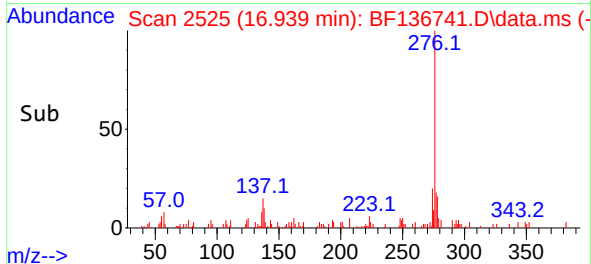
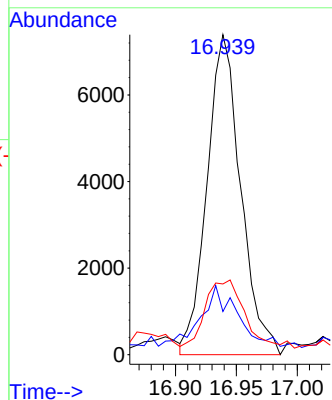
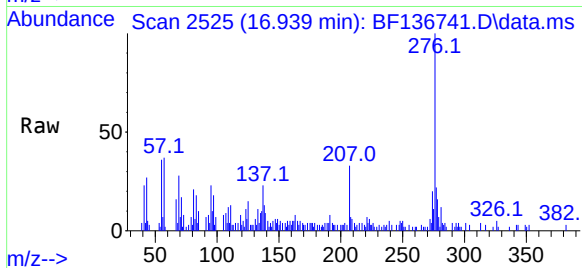
ROUTE-4-TP-4

Tgt Ion:276 Resp: 14190  
Ion Ratio Lower Upper  
276 100  
138 23.9 18.7 28.1  
277 28.2 20.2 30.2

Manual Integrations

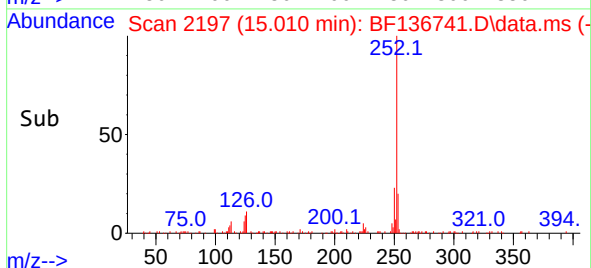
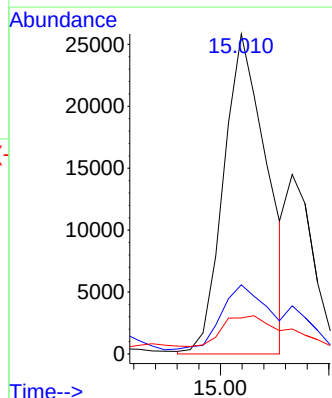
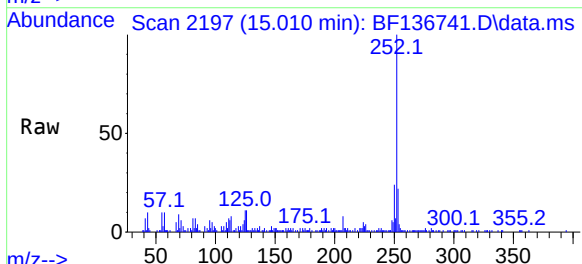
APPROVED

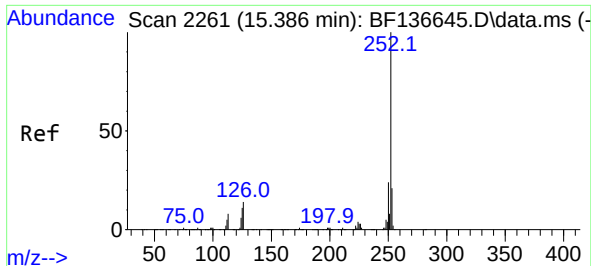
Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023



#88  
Benzo(b)fluoranthene  
Concen: 5.561 ng m  
RT: 15.010 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Tgt Ion:252 Resp: 35788  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.4 26.0  
125 11.3 7.4 11.2#





#90  
Benzo(a)pyrene  
Concen: 4.869 ng  
RT: 15.380 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Instrument :

BNA\_F

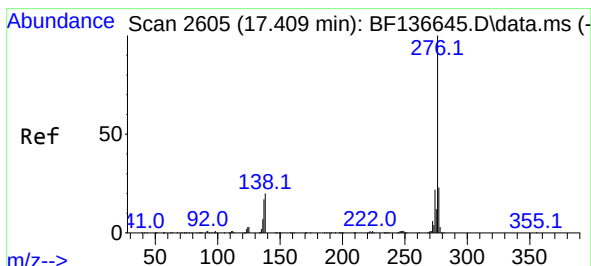
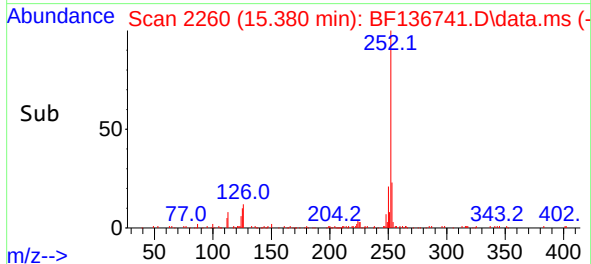
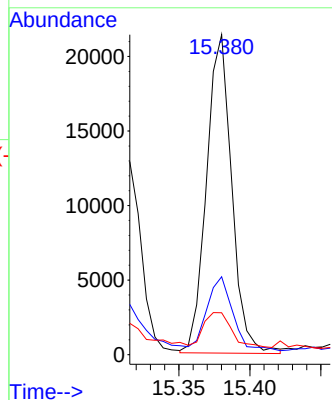
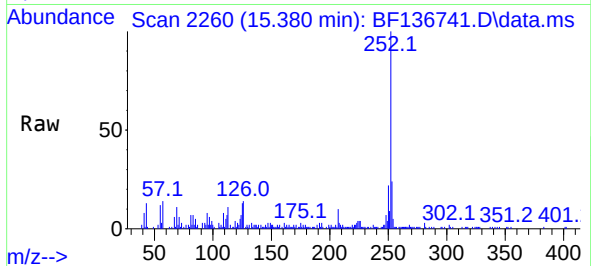
ClientSampleId :

ROUTE-4-TP-4

Tgt Ion:252 Resp: 2644  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.0 25.6  
125 13.1 8.8 13.2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/27/2023  
Supervised By :mohammad ahmed 12/27/2023



#92  
Benzo(g,h,i)perylene  
Concen: 2.337 ng  
RT: 17.392 min Scan# 2602  
Delta R.T. -0.018 min  
Lab File: BF136741.D  
Acq: 27 Dec 2023 02:43

Tgt Ion:276 Resp: 13661  
Ion Ratio Lower Upper  
276 100  
277 29.3 18.3 27.5#  
138 30.5 15.6 23.4#

