

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020724\  
 Data File : BP019599.D  
 Acq On : 07 Feb 2024 18:07  
 Operator : MA/JU  
 Sample : P1366-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EB-2-6-8

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024

Quant Time: Feb 08 01:31:40 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 01 00:51:48 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.905  | 152  | 77967    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.705 | 136  | 303638   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.534 | 164  | 210984   | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.292 | 188  | 488103   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.380 | 240  | 468019   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 23.798 | 264  | 539022   | 20.000 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.481  | 112  | 401007   | 82.906 | ng    | 0.00     |
| 7) Phenol-d6                | 7.075  | 99   | 556684   | 85.356 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.075  | 82   | 372851   | 53.209 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.028 | 330  | 297763   | 96.660 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.163 | 172  | 889513   | 52.120 | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.857 | 244  | 1590380  | 55.883 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.257 | 152  | 55136    | 2.843  | ng    | 97       |
| 71) Phenanthrene            | 17.334 | 178  | 185566   | 7.224  | ng    | 99       |
| 72) Anthracene              | 17.422 | 178  | 70683    | 2.758  | ng    | 98       |
| 75) Fluoranthene            | 19.298 | 202  | 636994   | 20.300 | ng    | 100      |
| 78) Pyrene                  | 19.651 | 202  | 588281   | 17.810 | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.369 | 228  | 452354   | 13.731 | ng    | 95       |
| 83) Chrysene                | 21.422 | 228  | 372304   | 11.903 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.310 | 276  | 403202   | 9.772  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.069 | 252  | 710797   | 20.923 | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 23.110 | 252  | 210214m  | 6.478  | ng    |          |
| 90) Benzo(a)pyrene          | 23.686 | 252  | 508609   | 16.826 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 26.321 | 278  | 97534    | 2.874  | ng    | # 91     |
| 92) Benzo(g,h,i)perylene    | 27.080 | 276  | 393316   | 11.425 | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

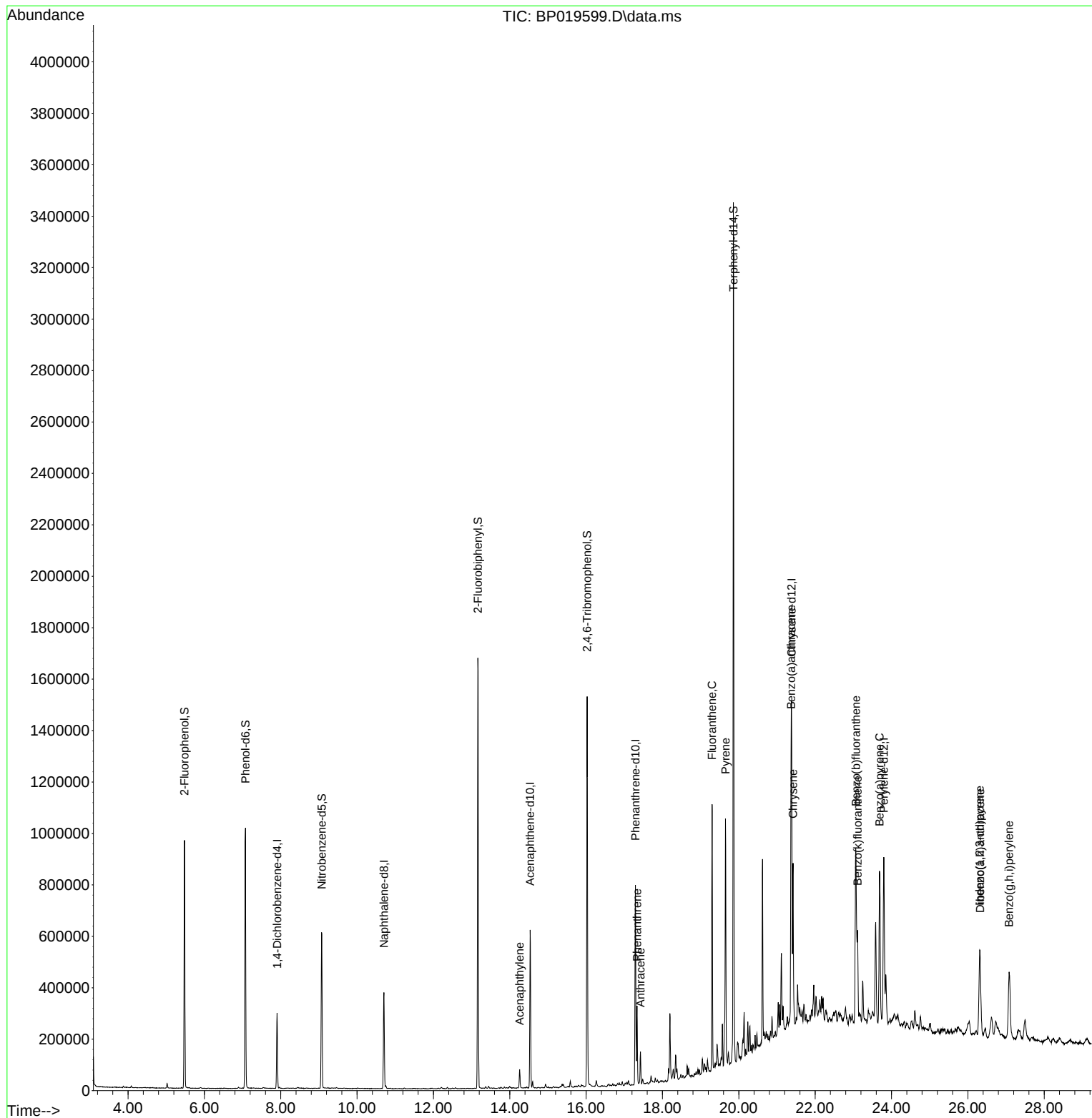
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Data File : BP019599.D  
Acq On : 07 Feb 2024 18:07  
Operator : MA/JU  
Sample : P1366-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

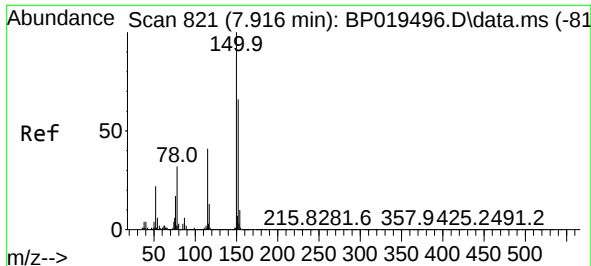
Instrument :  
BNA\_P  
ClientSampleId :  
EB-2-6-8

Quant Time: Feb 08 01:31:40 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 01 00:51:48 2024  
Response via : Initial Calibration

Manual Integrations  
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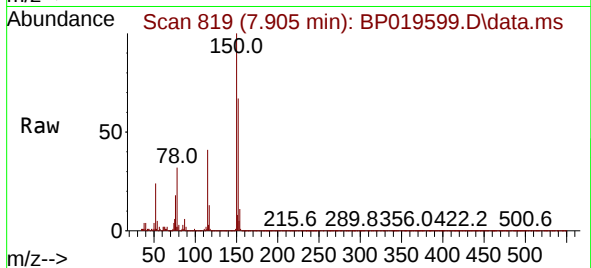
Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.905 min Scan# 81  
Delta R.T. -0.011 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

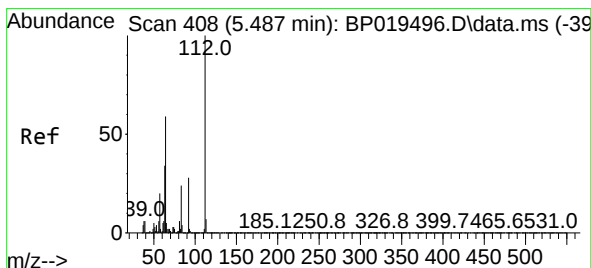
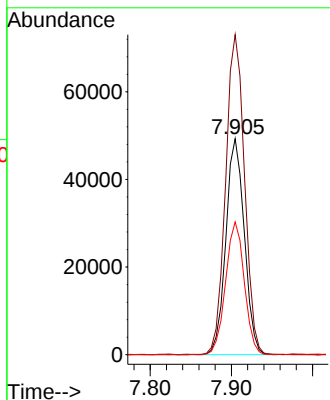
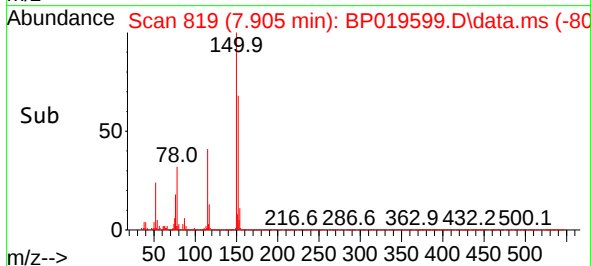
Instrument :  
BNA\_P  
ClientSampleId :  
EB-2-6-8



Tgt Ion:152 Resp: 7796  
Ion Ratio Lower Upper  
152 100  
150 148.2 121.8 182.8  
115 61.5 49.9 74.9

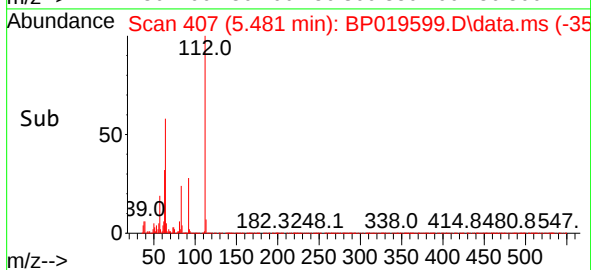
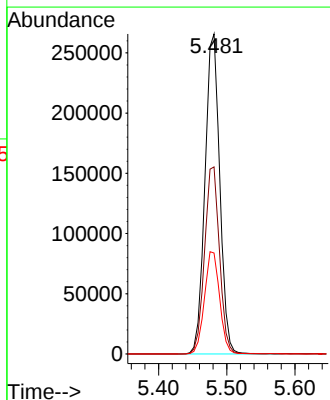
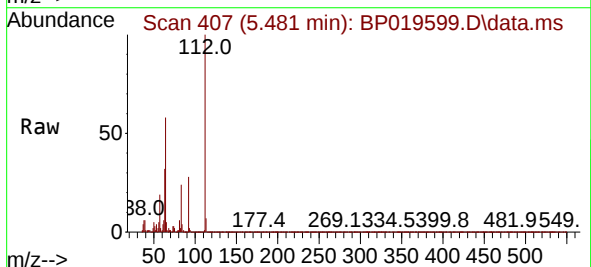
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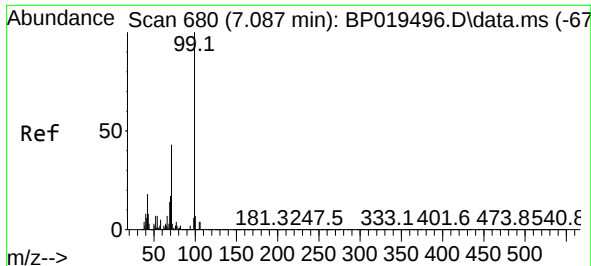
Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024



#5  
2-Fluorophenol  
Concen: 82.906 ng  
RT: 5.481 min Scan# 407  
Delta R.T. -0.006 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

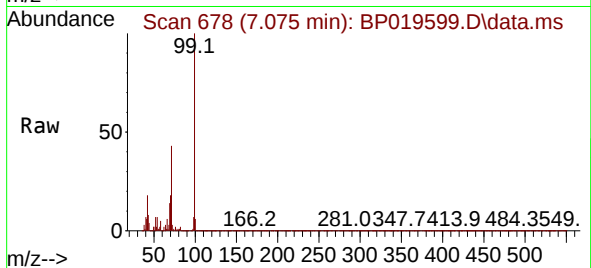
Tgt Ion:112 Resp: 401007  
Ion Ratio Lower Upper  
112 100  
64 58.5 47.4 71.0  
63 31.6 27.0 40.6





#7  
Phenol-d6  
Concen: 85.356 ng  
RT: 7.075 min Scan# 61  
Delta R.T. -0.011 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

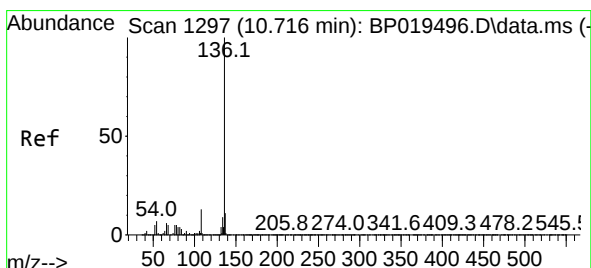
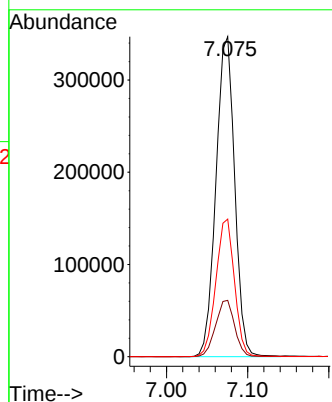
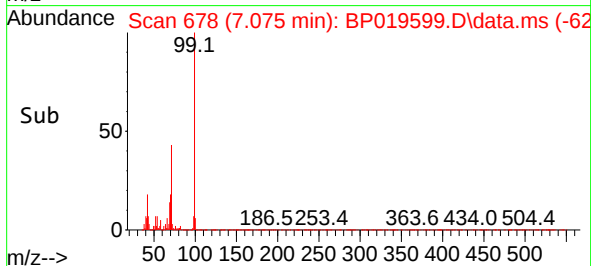
Instrument :  
BNA\_P  
ClientSampleId :  
EB-2-6-8



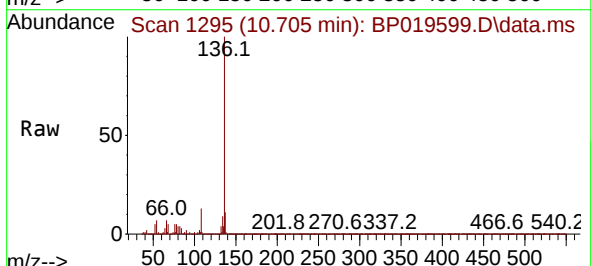
Tgt Ion: 99 Resp: 556684  
Ion Ratio Lower Upper  
99 100  
42 17.6 14.7 22.1  
71 43.0 34.8 52.2

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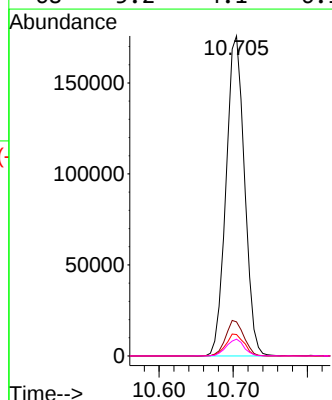
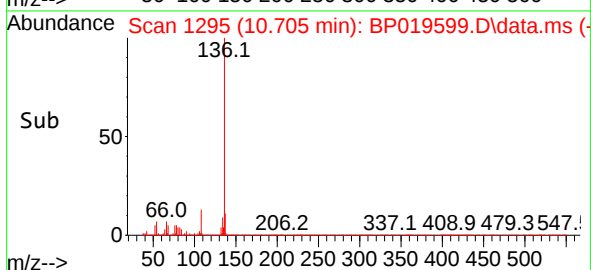
Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.705 min Scan# 1295  
Delta R.T. -0.011 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07



Tgt Ion:136 Resp: 303638  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 6.7 5.3 7.9  
68 5.2 4.1 6.1





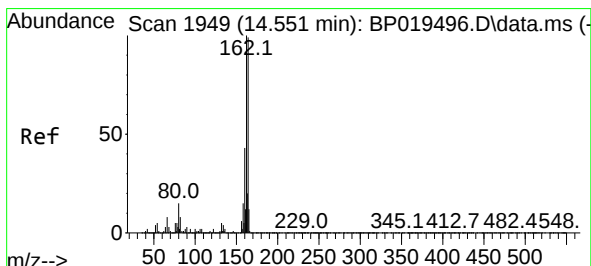
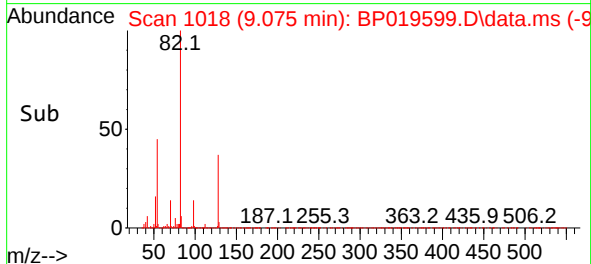
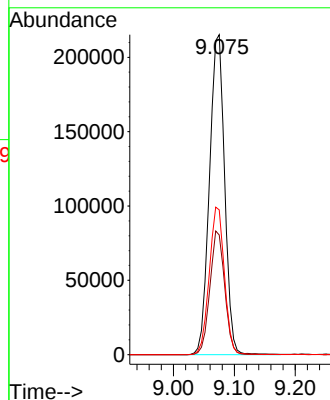
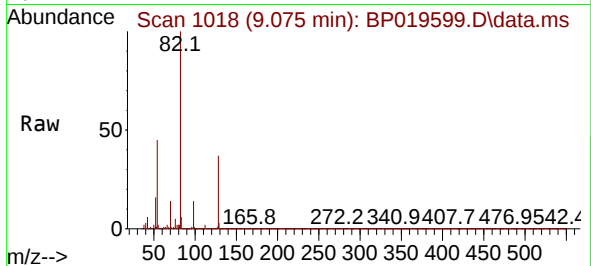
#23  
Nitrobenzene-d5  
Concen: 53.209 ng  
RT: 9.075 min Scan# 1020  
Delta R.T. -0.011 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

Instrument :  
BNA\_P  
ClientSampleId :  
EB-2-6-8

Tgt Ion: 82 Resp: 37285  
Ion Ratio Lower Upper  
82 100  
128 37.4 29.7 44.5  
54 45.2 36.8 55.2

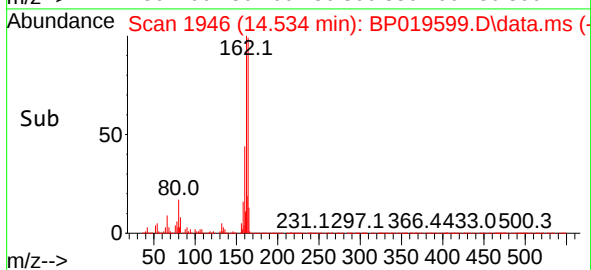
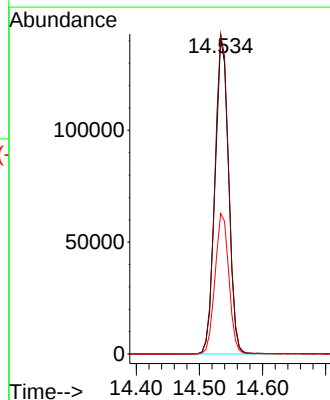
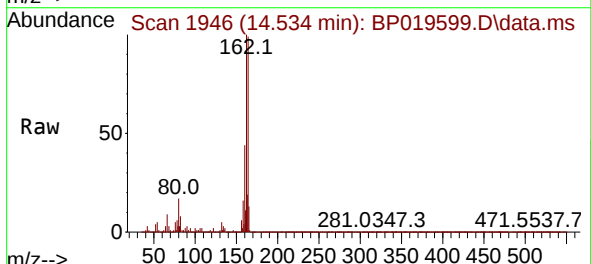
Manual Integrations  
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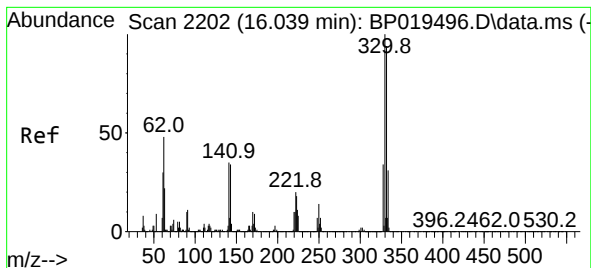
Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.534 min Scan# 1946  
Delta R.T. -0.017 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

Tgt Ion:164 Resp: 210984  
Ion Ratio Lower Upper  
164 100  
162 101.4 81.2 121.8  
160 44.5 35.1 52.7





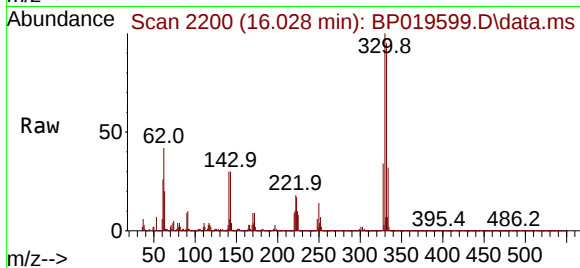
#42  
2,4,6-Tribromophenol  
Concen: 96.660 ng  
RT: 16.028 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

Instrument :

BNA\_P

ClientSampleId :

EB-2-6-8

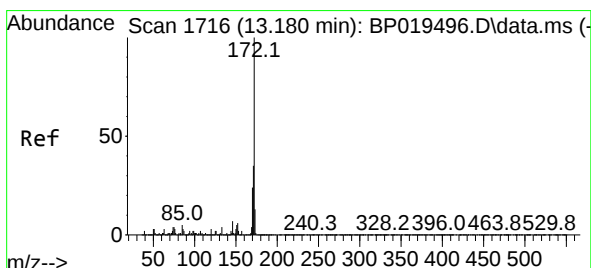
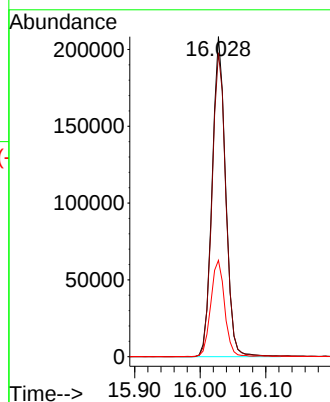
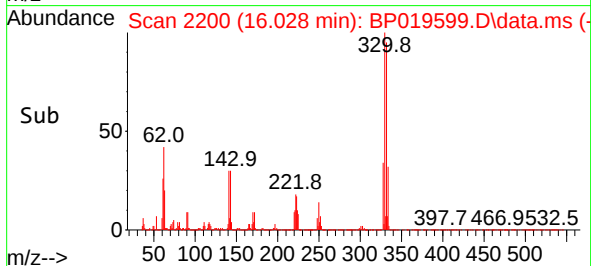


Tgt Ion:330 Resp: 29776  
Ion Ratio Lower Upper  
330 100  
332 97.1 77.2 115.8  
141 31.0 27.0 40.4

Manual Integrations

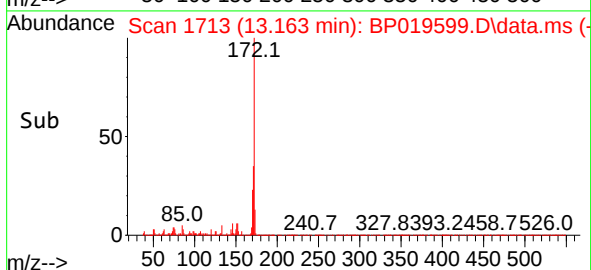
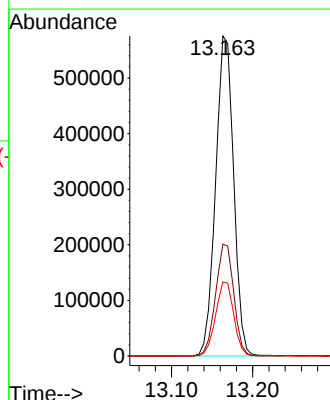
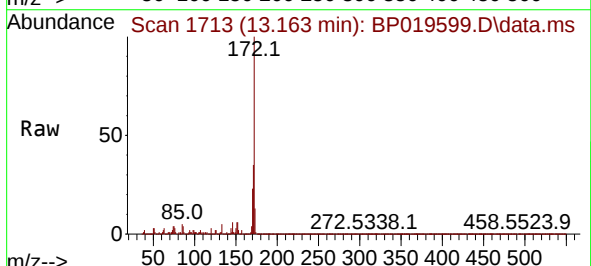
APPROVED

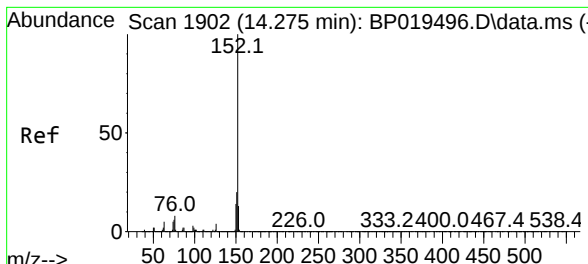
Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024



#45  
2-Fluorobiphenyl  
Concen: 52.120 ng  
RT: 13.163 min Scan# 1713  
Delta R.T. -0.017 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

Tgt Ion:172 Resp: 889513  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.2 42.4  
170 23.1 18.9 28.3



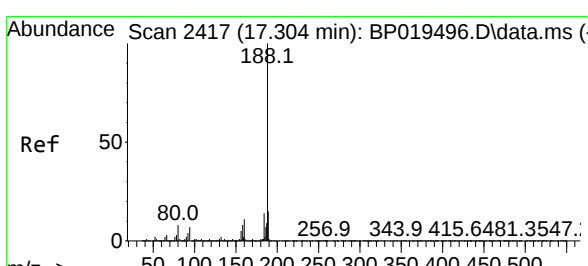
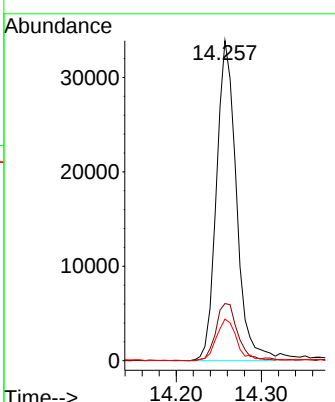
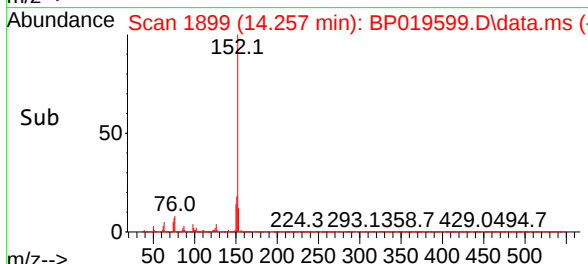
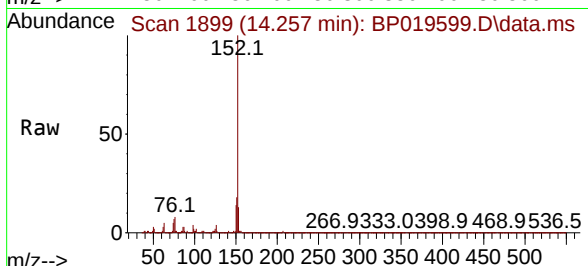


#49  
 Acenaphthylene  
 Concen: 2.843 ng  
 RT: 14.257 min Scan# 1899  
 Delta R.T. -0.017 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

Instrument : BNA\_P  
 ClientSampleId : EB-2-6-8

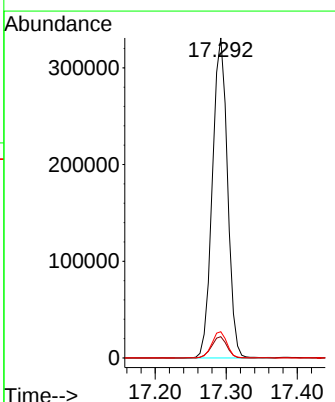
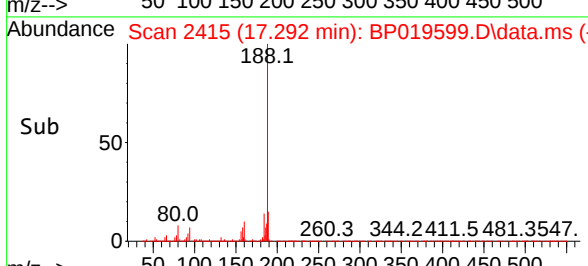
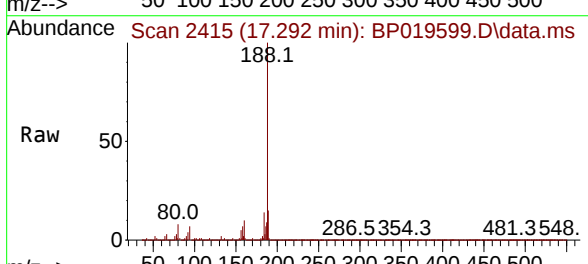
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|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 55130 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 17.9  | 15.8  | 23.6  |
| 153       | 13.0  | 10.6  | 15.8  |

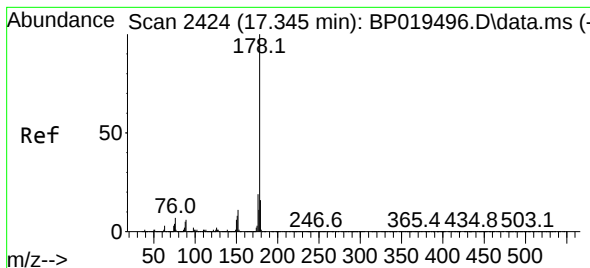
Manual Integrations  
**APPROVED**  
 Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.292 min Scan# 2415  
 Delta R.T. -0.012 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 488103 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 6.6   | 5.4   | 8.2    |
| 80        | 8.2   | 6.3   | 9.5    |





#71

Phenanthrene

Concen: 7.224 ng

RT: 17.334 min Scan# 2424

Delta R.T. -0.011 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

Instrument :

BNA\_P

ClientSampleId :

EB-2-6-8

Tgt Ion:178 Resp: 18556

Ion Ratio Lower Upper

178 100

176 20.0 15.5 23.3

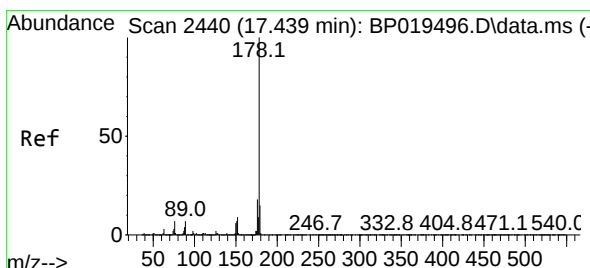
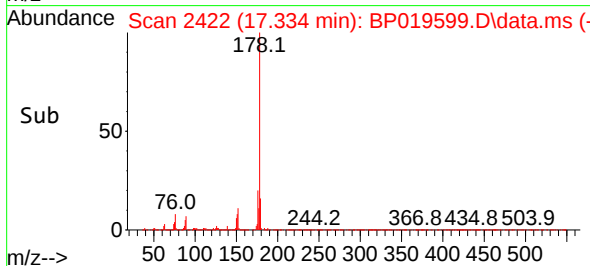
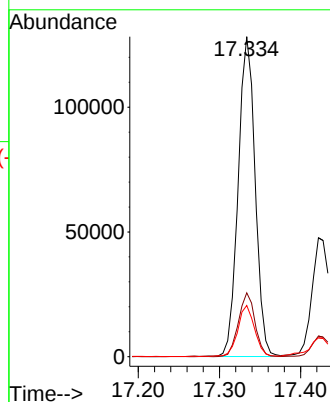
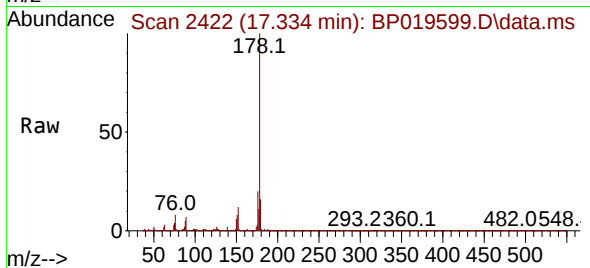
179 16.0 12.6 19.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/08/2024

Supervised By :mohammad ahmed 02/09/2024



#72

Anthracene

Concen: 2.758 ng

RT: 17.422 min Scan# 2437

Delta R.T. -0.017 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

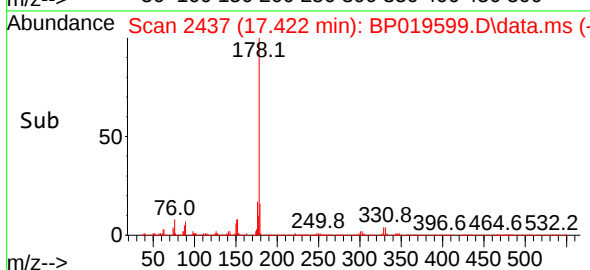
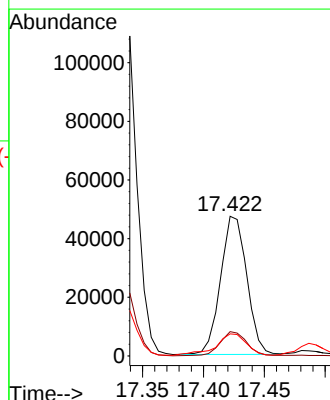
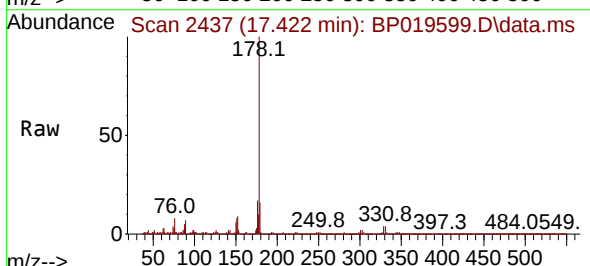
Tgt Ion:178 Resp: 70683

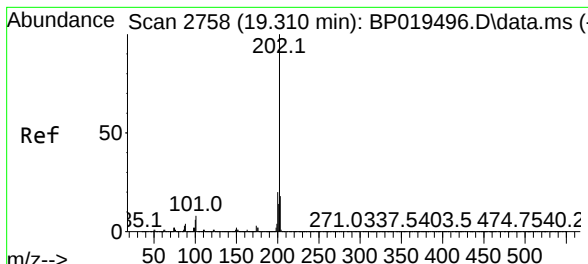
Ion Ratio Lower Upper

178 100

176 17.4 14.7 22.1

179 15.9 12.2 18.2



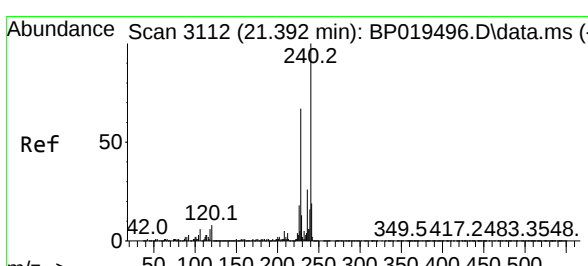
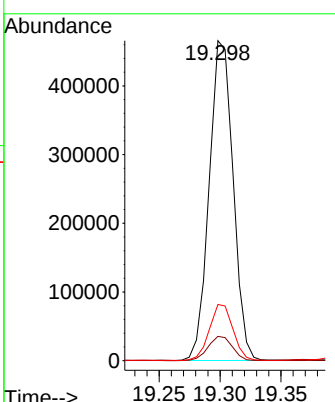
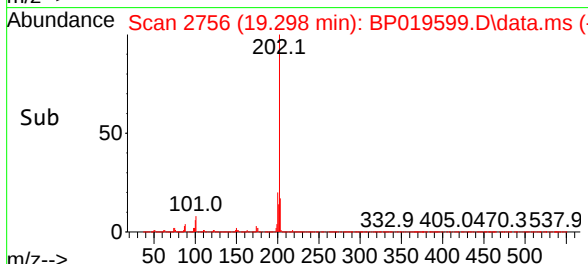
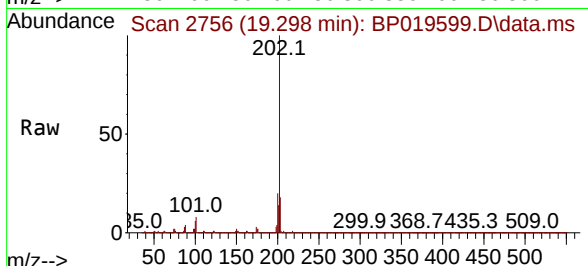


#75  
 Fluoranthene  
 Concen: 20.300 ng  
 RT: 19.298 min Scan# 21  
 Delta R.T. -0.011 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

Instrument : BNA\_P  
 ClientSampleId : EB-2-6-8

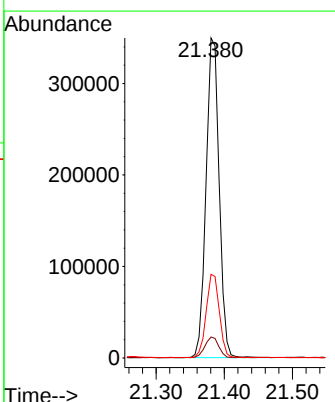
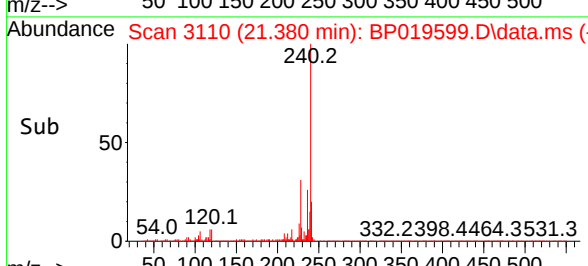
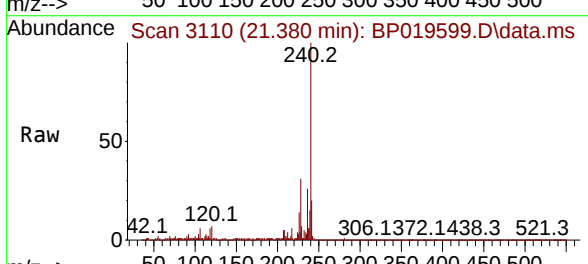
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 636994 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.6   | 0.0   | 27.7   |
| 203       | 17.6  | 0.0   | 37.5   |

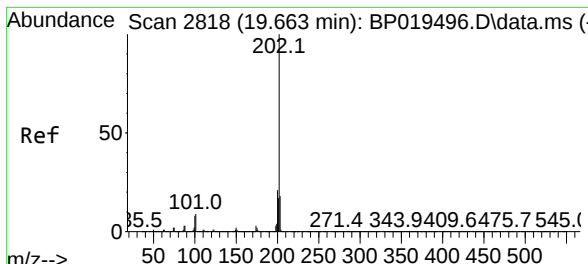
Manual Integrations  
**APPROVED**  
 Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.380 min Scan# 3110  
 Delta R.T. -0.011 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 468019 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 6.6   | 6.1   | 9.1    |
| 236       | 26.2  | 20.7  | 31.1   |





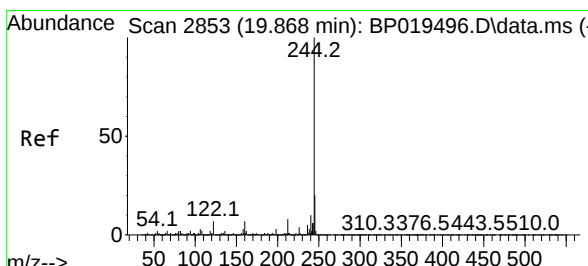
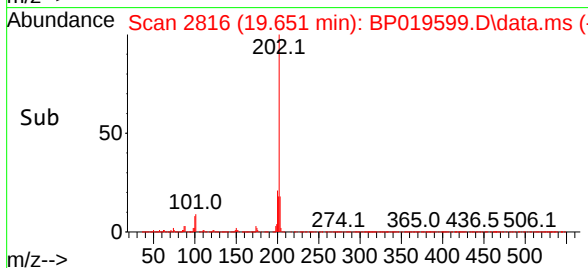
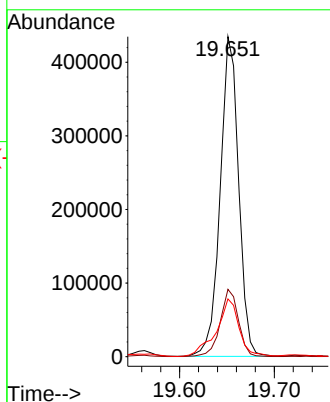
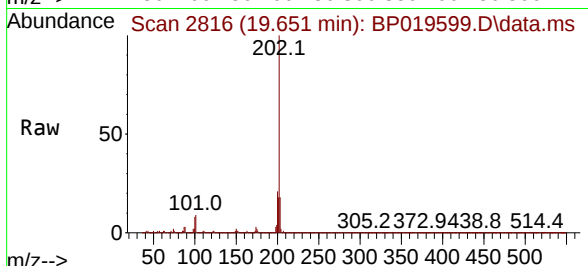
#78  
 Pyrene  
 Concen: 17.810 ng  
 RT: 19.651 min Scan# 2816  
 Delta R.T. -0.011 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EB-2-6-8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 58828 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.0  | 16.9  | 25.3  |
| 203       | 18.1  | 14.2  | 21.2  |

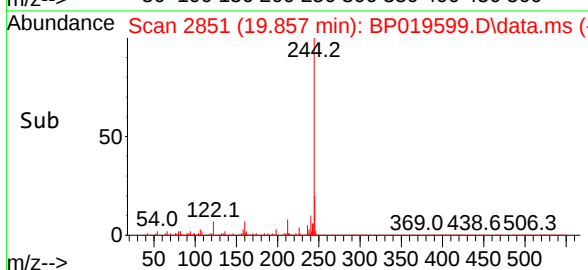
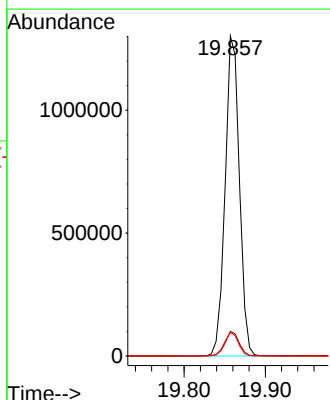
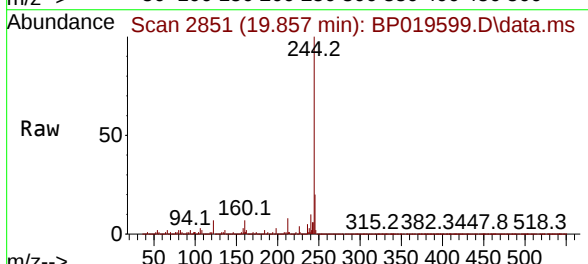
Manual Integrations  
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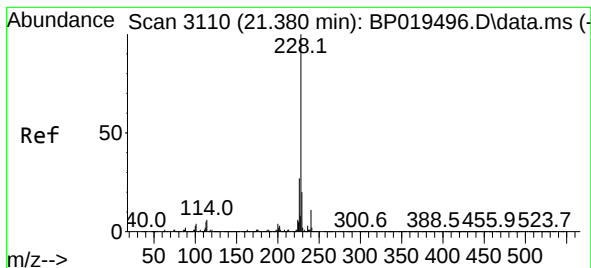
Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024



#79  
 Terphenyl-d14  
 Concen: 55.883 ng  
 RT: 19.857 min Scan# 2851  
 Delta R.T. -0.011 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1590380 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.7   | 6.1   | 9.1     |
| 122       | 7.3   | 5.9   | 8.9     |





#81

Benzo(a)anthracene

Concen: 13.731 ng

RT: 21.369 min Scan# 3110

Delta R.T. -0.011 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

Instrument :

BNA\_P

ClientSampleId :

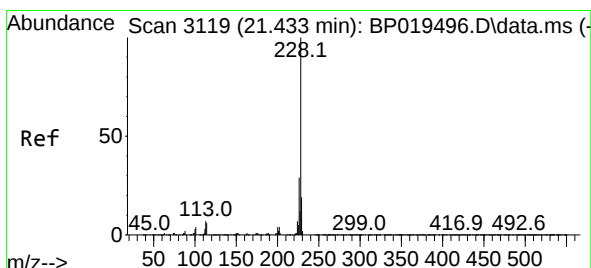
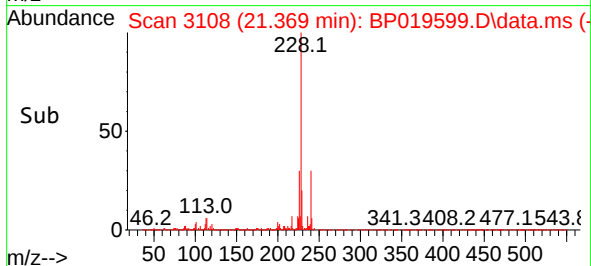
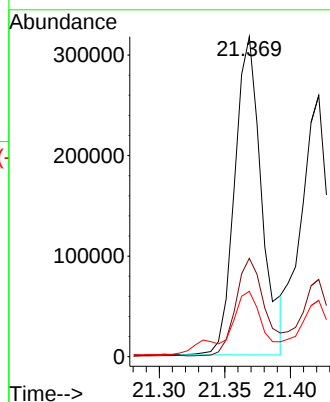
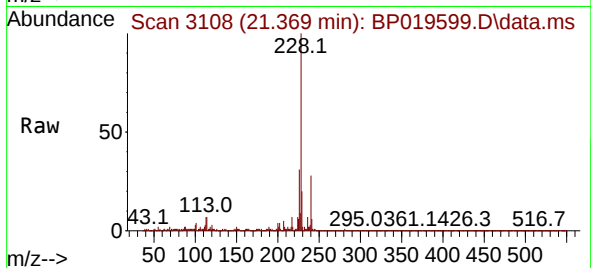
EB-2-6-8

Tgt Ion:228 Resp: 452354  
 Ion Ratio Lower Upper  
 228 100  
 226 30.7 21.7 32.5  
 229 20.4 15.6 23.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024



#83

Chrysene

Concen: 11.903 ng

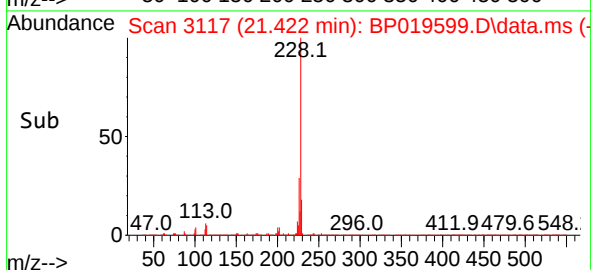
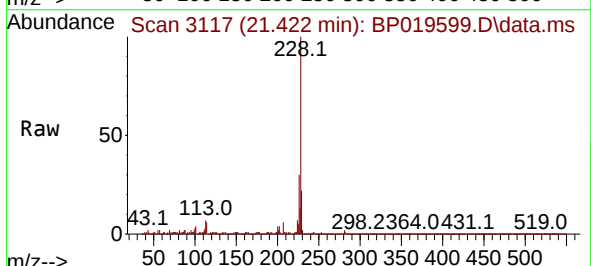
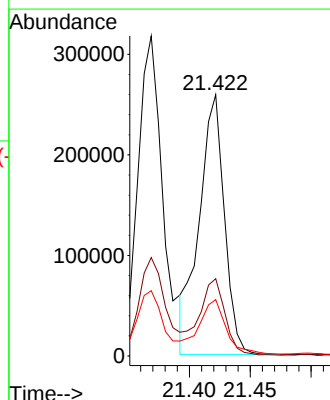
RT: 21.422 min Scan# 3117

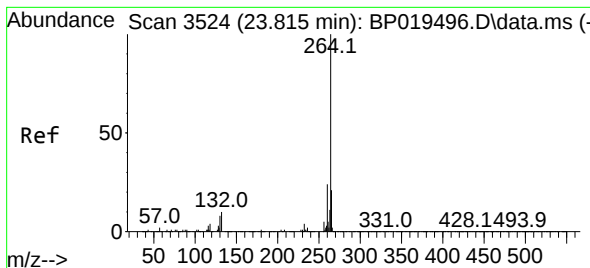
Delta R.T. -0.011 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

Tgt Ion:228 Resp: 372304  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 23.4 35.2  
 229 21.6 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.798 min Scan# 3

Delta R.T. -0.017 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

Instrument :

BNA\_P

ClientSampleId :

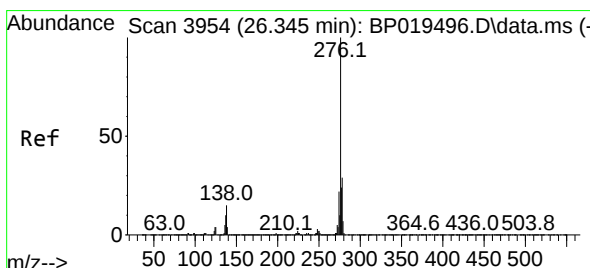
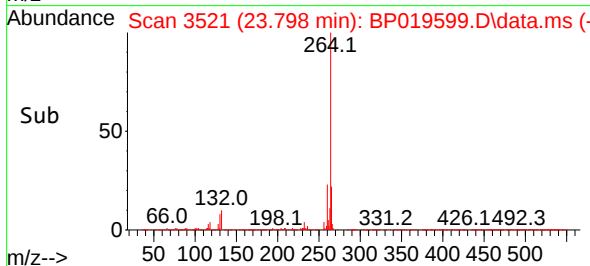
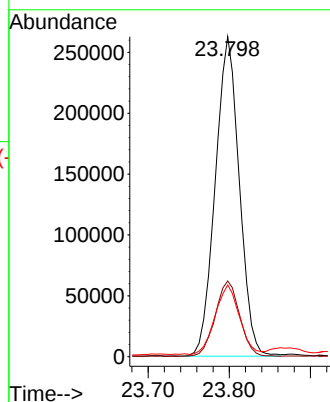
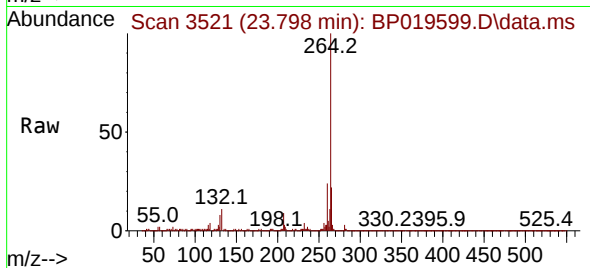
EB-2-6-8

|             |             |
|-------------|-------------|
| Tgt Ion:264 | Resp: 53902 |
| Ion Ratio   | Lower Upper |
| 264 100     |             |
| 260 23.6    | 19.2 28.8   |
| 265 22.4    | 17.0 25.4   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.772 ng

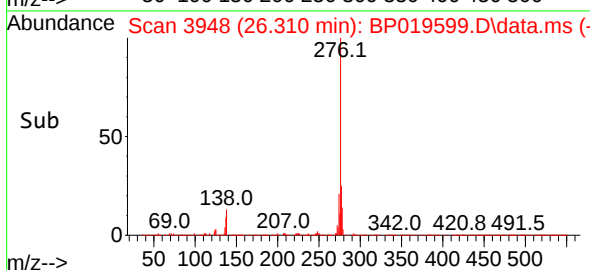
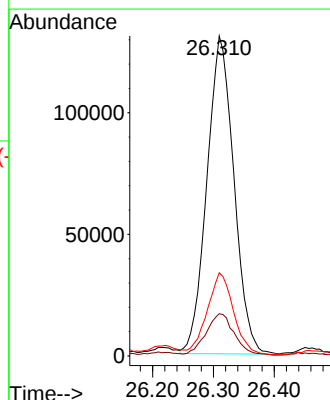
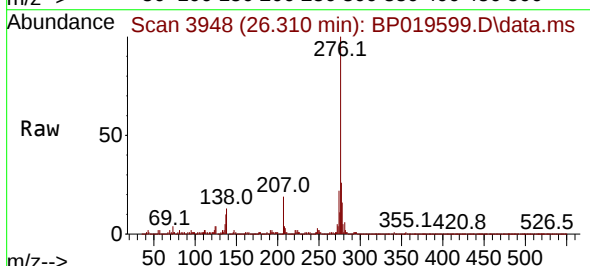
RT: 26.310 min Scan# 3948

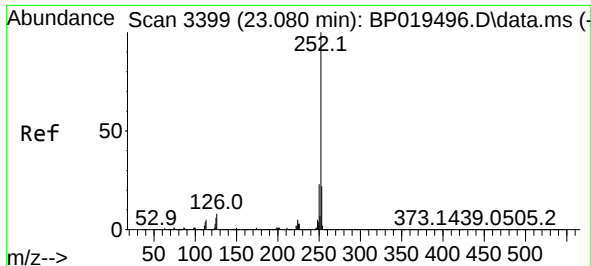
Delta R.T. -0.035 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

|             |              |
|-------------|--------------|
| Tgt Ion:276 | Resp: 403202 |
| Ion Ratio   | Lower Upper  |
| 276 100     |              |
| 138 13.6    | 13.1 19.7    |
| 277 25.3    | 20.3 30.5    |





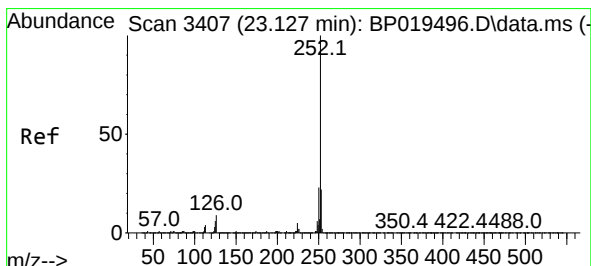
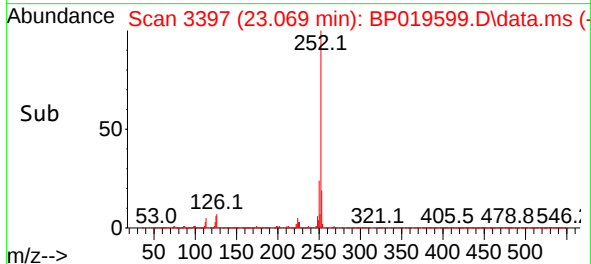
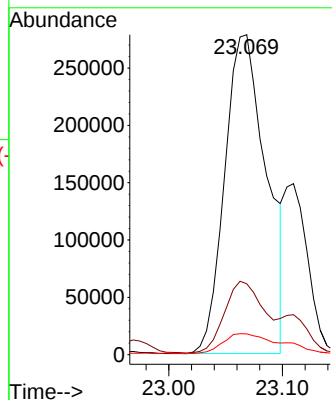
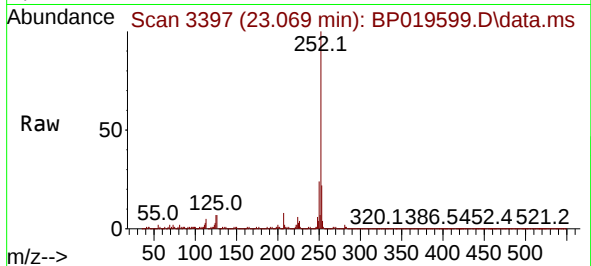
#88  
Benzo(b)fluoranthene  
Concen: 20.923 ng  
RT: 23.069 min Scan# 31  
Delta R.T. -0.011 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

Instrument :  
BNA\_P  
ClientSampleId :  
EB-2-6-8

Tgt Ion:252 Resp: 71079  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.3 25.9  
125 6.5 4.9 7.3

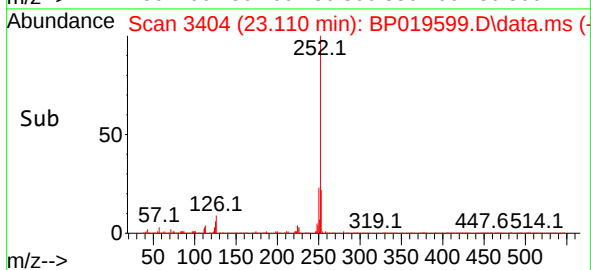
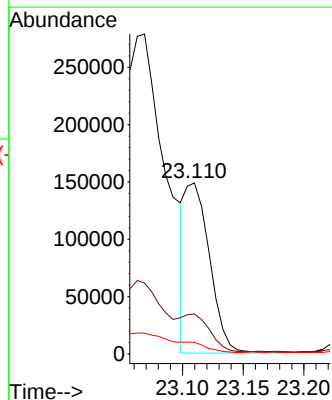
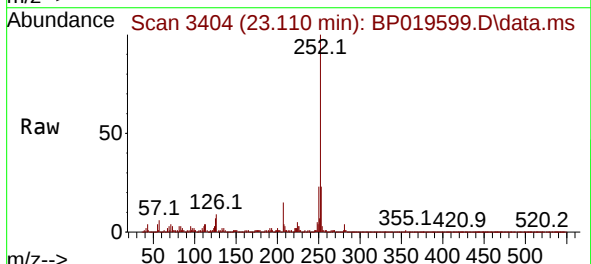
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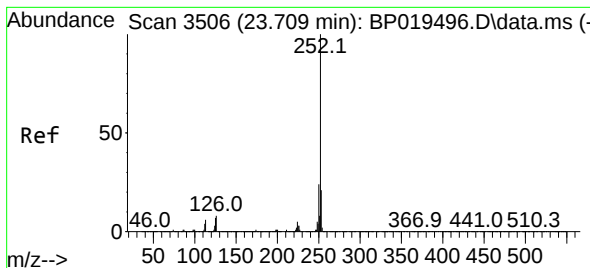
Reviewed By :Jagrut Upadhyay 02/08/2024  
Supervised By :mohammad ahmed 02/09/2024



#89  
Benzo(k)fluoranthene  
Concen: 6.478 ng m  
RT: 23.110 min Scan# 3404  
Delta R.T. -0.017 min  
Lab File: BP019599.D  
Acq: 07 Feb 2024 18:07

Tgt Ion:252 Resp: 210214  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.1 25.7  
125 6.8 5.0 7.6





#90

Benzo(a)pyrene

Concen: 16.826 ng

RT: 23.686 min Scan# 3506

Delta R.T. -0.023 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

Instrument :

BNA\_P

ClientSampleId :

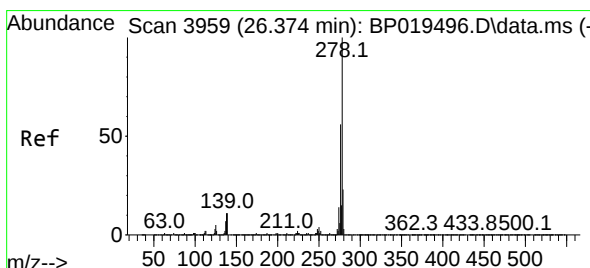
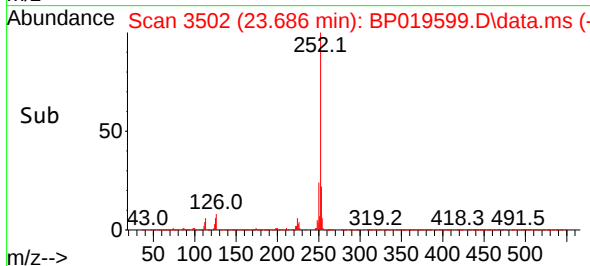
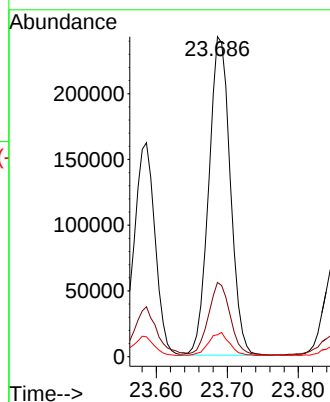
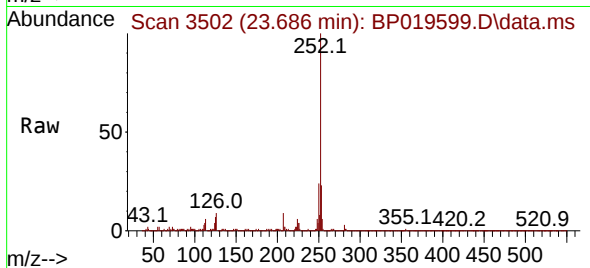
EB-2-6-8

Tgt Ion:252 Resp: 508609  
 Ion Ratio Lower Upper  
 252 100  
 253 23.2 17.1 25.7  
 125 6.8 5.6 8.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024



#91

Dibenzo(a,h)anthracene

Concen: 2.874 ng

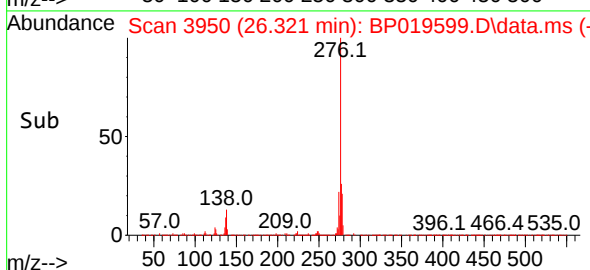
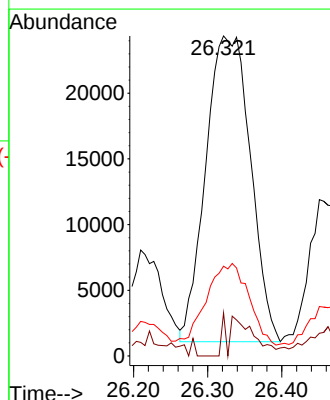
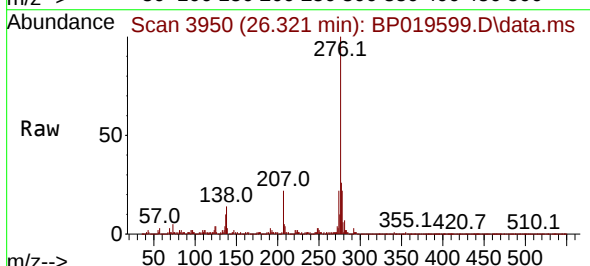
RT: 26.321 min Scan# 3950

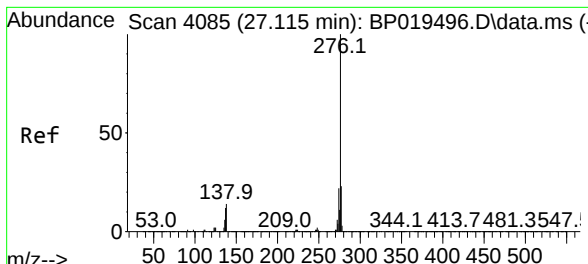
Delta R.T. -0.053 min

Lab File: BP019599.D

Acq: 07 Feb 2024 18:07

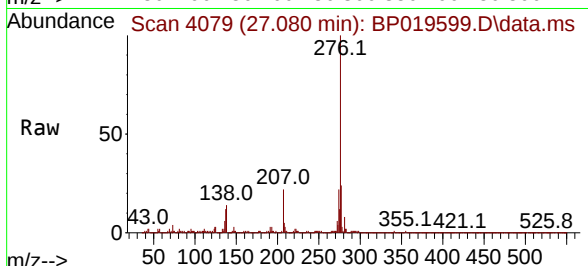
Tgt Ion:278 Resp: 97534  
 Ion Ratio Lower Upper  
 278 100  
 139 13.5 8.6 12.8#  
 279 28.0 18.5 27.7#





#92  
 Benzo(g,h,i)perylene  
 Concen: 11.425 ng  
 RT: 27.080 min Scan# 40  
 Delta R.T. -0.035 min  
 Lab File: BP019599.D  
 Acq: 07 Feb 2024 18:07

Instrument : BNA\_P  
 ClientSampleId : EB-2-6-8



Tgt Ion: 276 Resp: 393310

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.3  | 18.6  | 28.0  |
| 138 | 14.4  | 10.9  | 16.3  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Jagrut Upadhyay 02/08/2024  
 Supervised By :mohammad ahmed 02/09/2024

