

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP062223\  
 Data File : BP015658.D  
 Acq On : 22 Jun 2023 21:18  
 Operator : MA/JU  
 Sample : 03083-11  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCFK9

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/23/2023  
 Supervised By :mohammad ahmed 06/23/2023

Quant Time: Jun 22 23:35:14 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP060723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 22 22:01:49 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.081  | 152  | 124040   | 20.000  | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.904 | 136  | 484533   | 20.000  | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.728 | 164  | 240233   | 20.000  | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.486 | 188  | 402038   | 20.000  | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.580 | 240  | 393088   | 20.000  | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.133 | 264  | 521508   | 20.000  | ng/u1  | 0.00     |
|                               |        |      |          |         |        |          |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.399  | 96   | 7712     | 2.302   | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.846  | 84   | 74237    | 8.532   | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.246  | 99   | 153593   | 13.441  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.399  | 67   | 102099   | 14.960  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.604  | 132  | 130543   | 15.756  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.804  | 113  | 117081   | 12.484  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.263  | 128  | 62240    | 16.361  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.987  | 143  | 70629    | 16.258  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.540 | 165  | 110153   | 13.900  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.063 | 131  | 90812    | 7.984   | ng/u1  | 0.01     |
| 46) Dimethylphthalate-d6      | 14.134 | 166  | 327255   | 17.275  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.422 | 160  | 364408   | 17.592  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.981 | 143  | 25679m   | 7.570   | ng/u1  | 0.03     |
| 60) Fluorene-d10              | 15.722 | 176  | 247332   | 15.483  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.869 | 200  | 24371    | 9.569   | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.586 | 188  | 331160   | 18.104  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.816 | 212  | 387274   | 18.408  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.968 | 264  | 485898   | 18.569  | ng/u1  | 0.00     |
|                               |        |      |          |         |        |          |
| Target Compounds              |        |      |          |         |        | Qvalue   |
| 30) Naphthalene               | 10.957 | 128  | 97405    | 3.710   | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.569 | 142  | 30489    | 1.652   | ng/u1  | 93       |
| 37) 1-Methylnaphthalene       | 12.781 | 142  | 29182    | 1.570   | ng/u1  | 91       |
| 50) Acenaphthylene            | 14.451 | 152  | 51083    | 2.227   | ng/u1  | 97       |
| 52) Acenaphthene              | 14.792 | 153  | 147730   | 9.317   | ng/u1  | 98       |
| 61) Fluorene                  | 15.781 | 166  | 130568   | 7.127   | ng/u1  | 97       |
| 72) Phenanthrene              | 17.533 | 178  | 2405091  | 111.476 | ng/u1  | 99       |
| 74) Anthracene                | 17.622 | 178  | 534171   | 24.402  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.498 | 202  | 4859722  | 189.631 | ng/u1  | 95       |
| 82) Pyrene                    | 19.851 | 202  | 3952183  | 149.064 | ng/u1# | 94       |
| 85) Benzo(a)anthracene        | 21.563 | 228  | 2719081  | 98.948  | ng/u1  | 99       |
| 87) Chrysene                  | 21.621 | 228  | 2531521  | 97.462  | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 23.357 | 252  | 3941500  | 117.086 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.404 | 252  | 1471778m | 45.228  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.027 | 252  | 2679935  | 91.311  | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.851 | 276  | 2188955  | 57.629  | ng/u1# | 95       |
| 95) Dibenzo(a,h)anthracene    | 26.851 | 278  | 599522   | 19.374  | ng/u1# | 79       |
| 96) Benzo(g,h,i)perylene      | 27.698 | 276  | 1992304  | 63.648  | ng/u1  | 97       |
| -----                         |        |      |          |         |        |          |

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

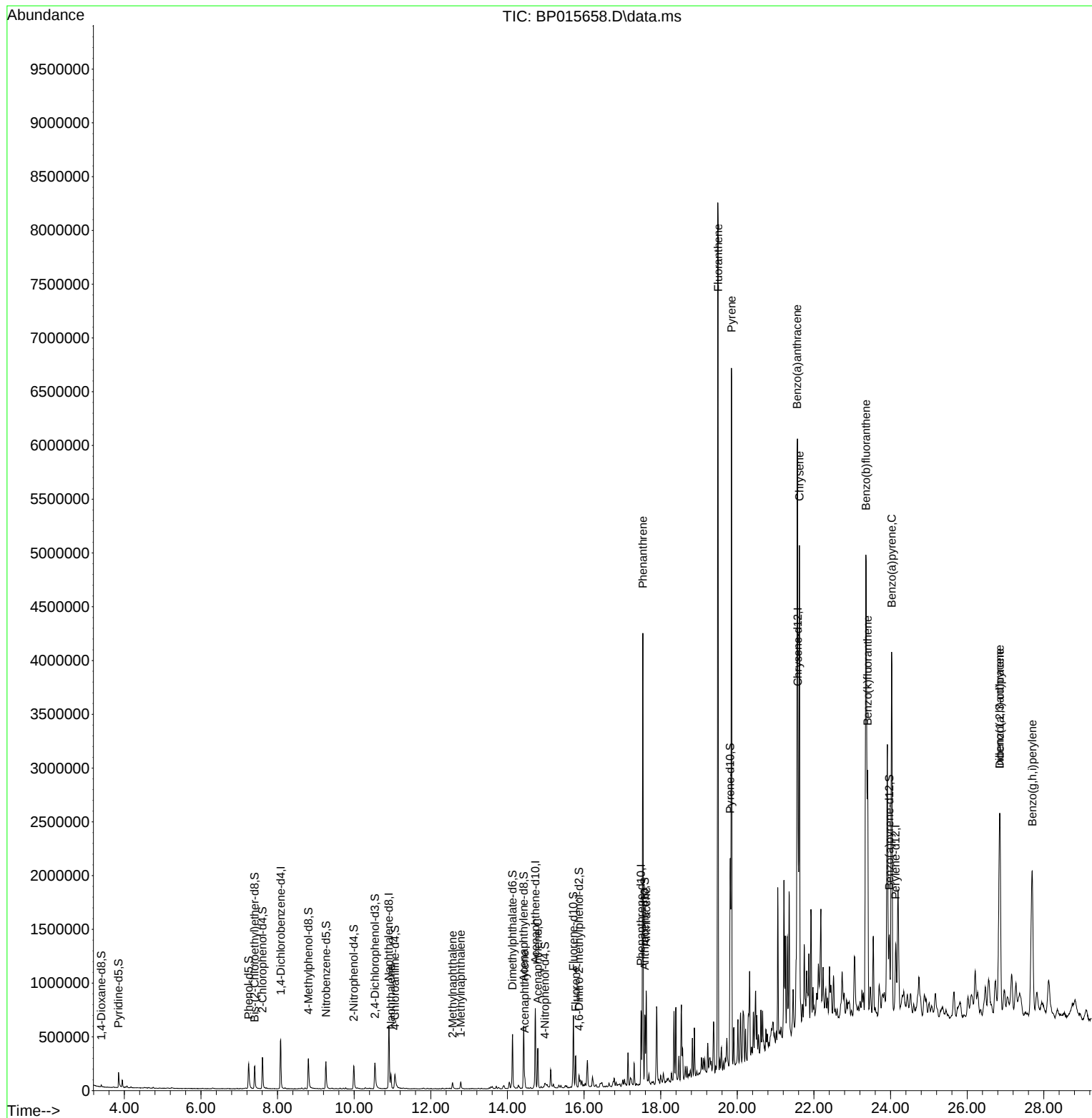
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP062223\  
Data File : BP015658.D  
Acq On : 22 Jun 2023 21:18  
Operator : MA/JU  
Sample : 03083-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

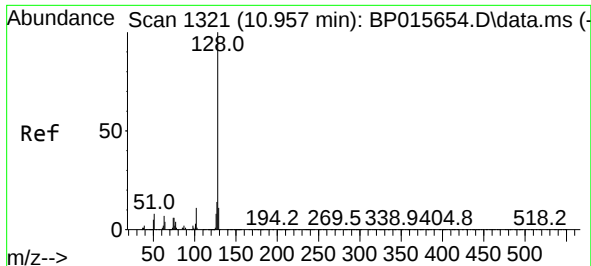
Instrument :  
BNA\_P  
ClientSampleId :  
DCFK9

Manual Integrations  
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Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

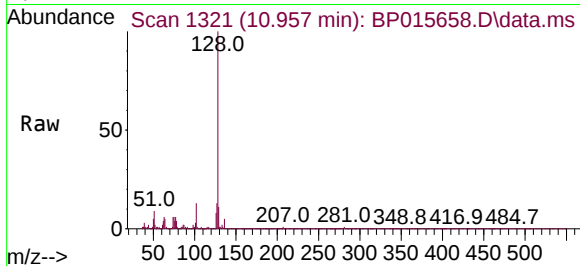
Quant Time: Jun 22 23:35:14 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP060723.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 22 22:01:49 2023  
Response via : Initial Calibration





#30  
Naphthalene  
Concen: 3.710 ng/ul  
RT: 10.957 min Scan# 1321  
Delta R.T. 0.000 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

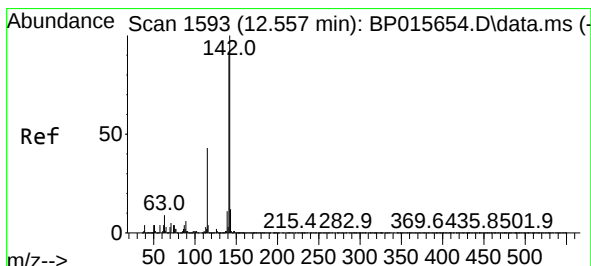
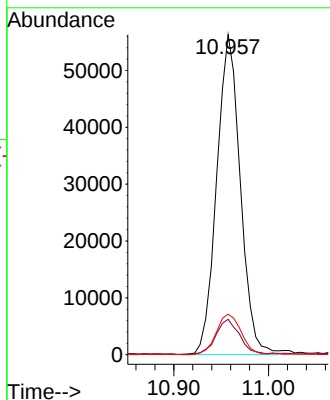
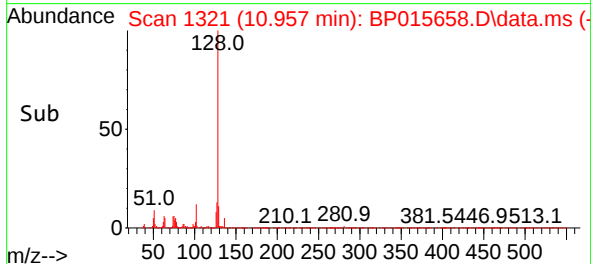
Instrument :  
BNA\_P  
ClientSampleId :  
DCFK9



Tgt Ion:128 Resp: 97405  
Ion Ratio Lower Upper  
128 100  
129 11.1 8.6 13.0  
127 12.7 10.5 15.7

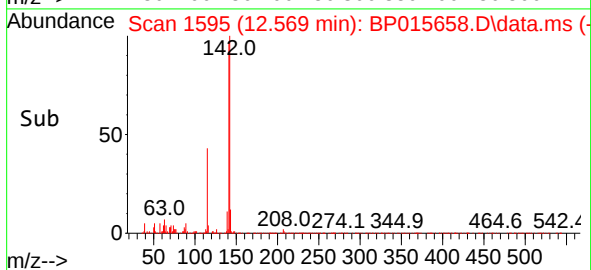
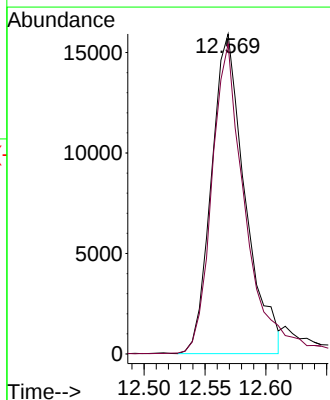
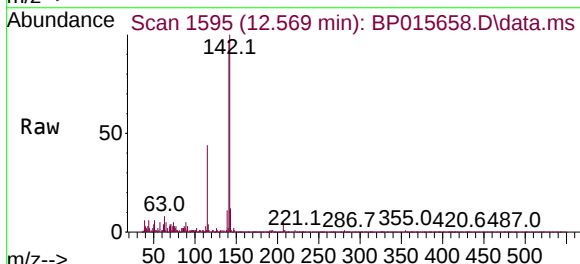
Manual Integrations  
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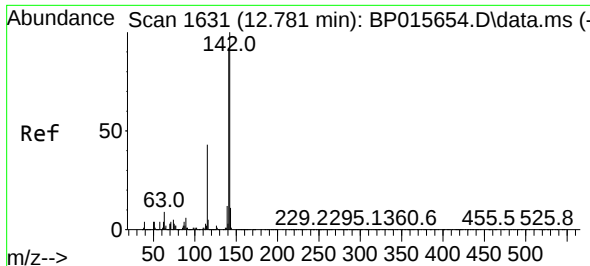
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023



#36  
2-Methylnaphthalene  
Concen: 1.652 ng/ul  
RT: 12.569 min Scan# 1595  
Delta R.T. 0.006 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

Tgt Ion:142 Resp: 30489  
Ion Ratio Lower Upper  
142 100  
141 96.9 72.0 108.0





#37

1-Methylnaphthalene

Concen: 1.570 ng/ul

RT: 12.781 min Scan# 1631

Delta R.T. 0.000 min

Lab File: BP015658.D

Acq: 22 Jun 2023 21:18

Instrument :

BNA\_P

ClientSampleId :

DCFK9

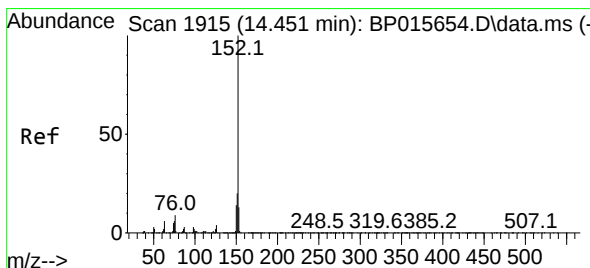
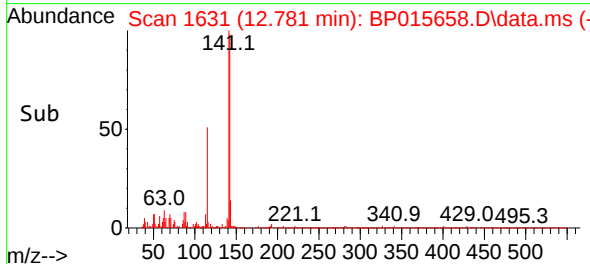
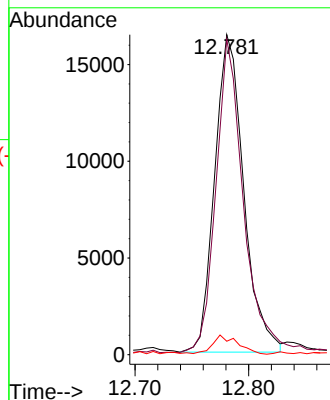
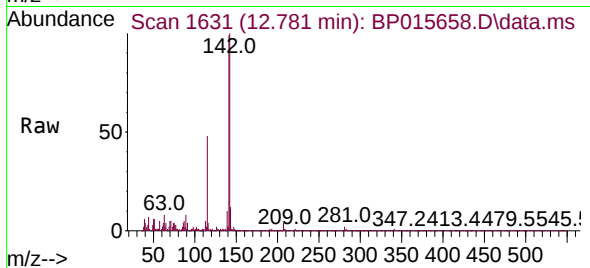
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 2918  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 98.6  | 71.9  | 107.9 |
| 116       | 4.2   | 3.4   | 5.2   |

Manual Integrations

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Reviewed By :Yogesh Patel 06/23/2023

Supervised By :mohammad ahmed 06/23/2023



#50

Acenaphthylene

Concen: 2.227 ng/ul

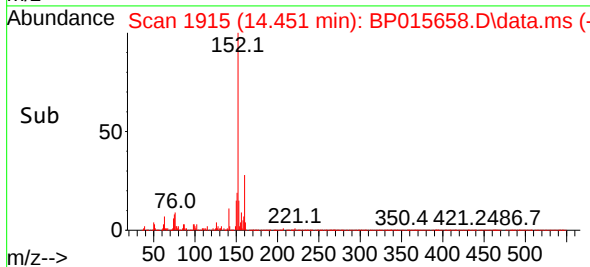
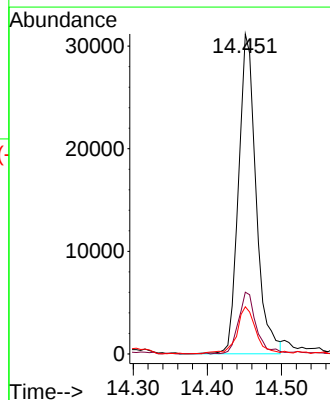
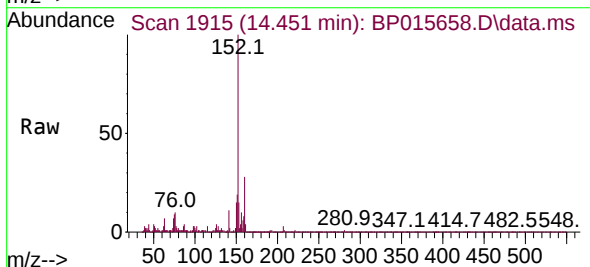
RT: 14.451 min Scan# 1915

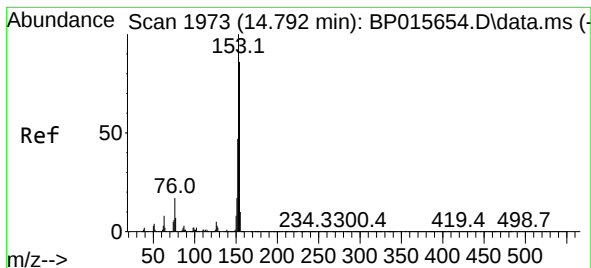
Delta R.T. 0.000 min

Lab File: BP015658.D

Acq: 22 Jun 2023 21:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 51083 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.3  | 16.0  | 24.0  |
| 153       | 14.8  | 10.6  | 15.8  |





#52

Acenaphthene

Concen: 9.317 ng/ul

RT: 14.792 min Scan# 1973

Delta R.T. 0.000 min

Lab File: BP015658.D

Acq: 22 Jun 2023 21:18

Instrument :

BNA\_P

ClientSampleId :

DCFK9

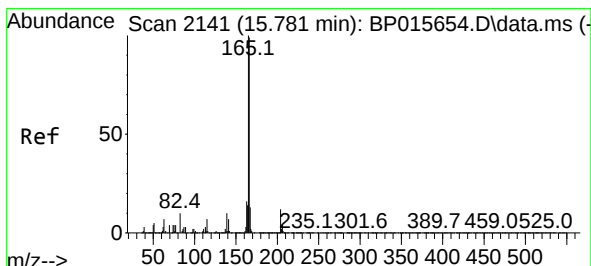
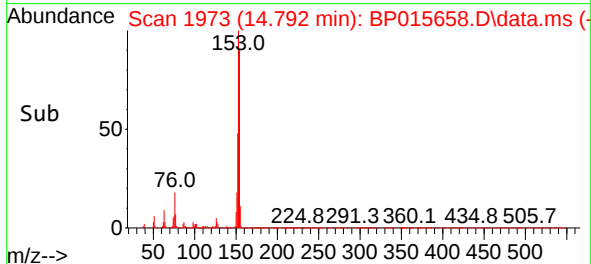
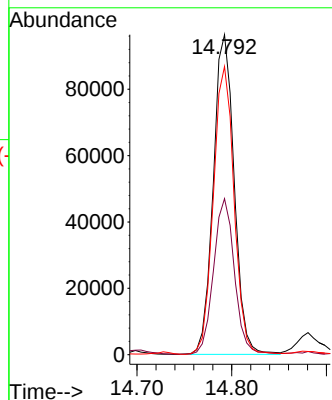
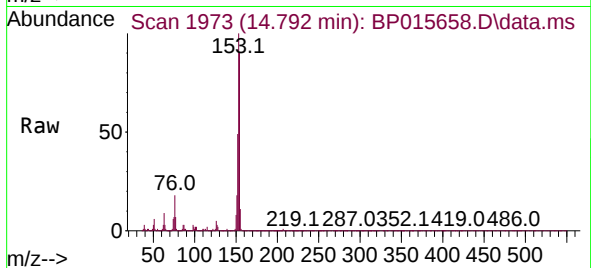
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 147730 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 48.8  | 38.3  | 57.5   |
| 154       | 90.1  | 69.8  | 104.6  |

Manual Integrations

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Reviewed By :Yogesh Patel 06/23/2023

Supervised By :mohammad ahmed 06/23/2023



#61

Fluorene

Concen: 7.127 ng/ul

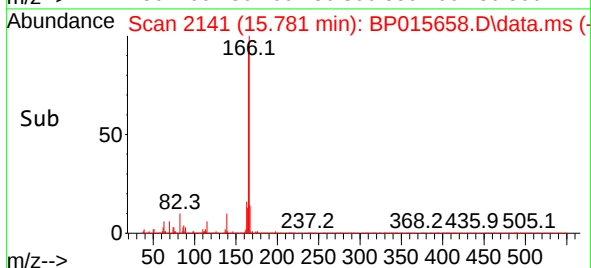
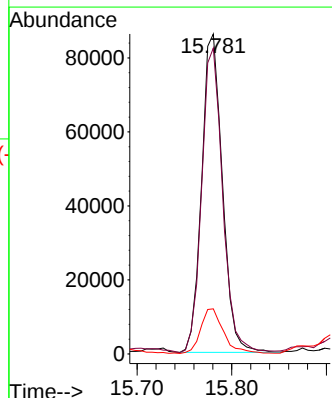
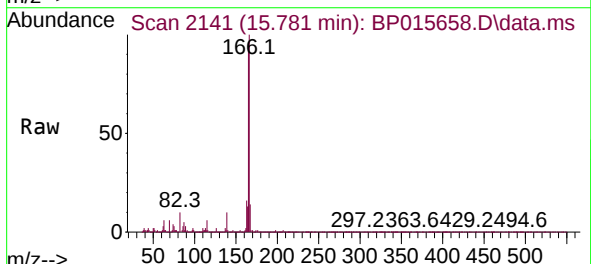
RT: 15.781 min Scan# 2141

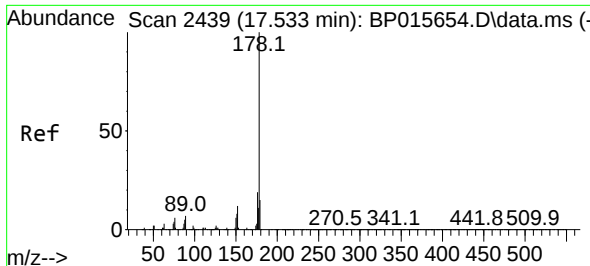
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Lab File: BP015658.D

Acq: 22 Jun 2023 21:18

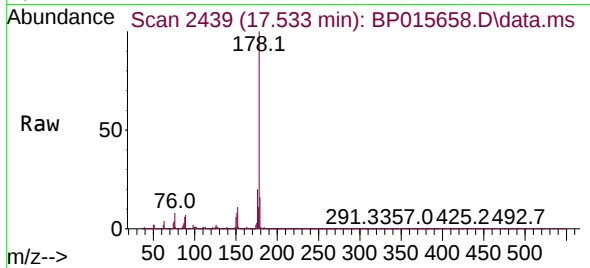
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 130568 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 95.6  | 79.1  | 118.7  |
| 167       | 14.1  | 10.6  | 16.0   |





#72  
Phenanthrene  
Concen: 111.476 ng/ul  
RT: 17.533 min Scan# 2439  
Delta R.T. 0.000 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

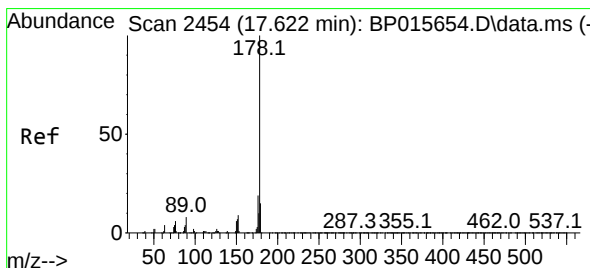
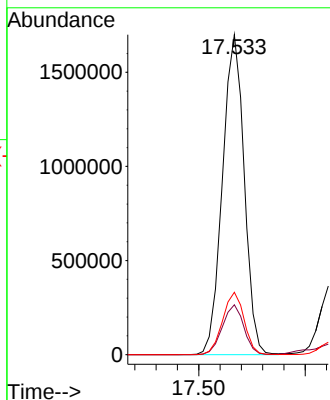
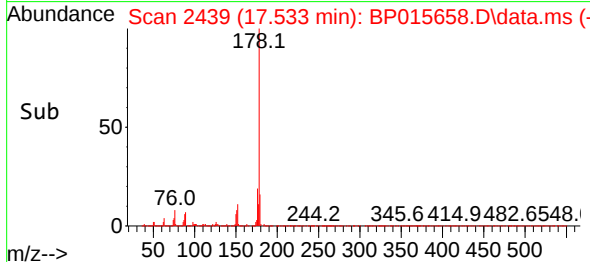
Instrument :  
BNA\_P  
ClientSampleId :  
DCFK9



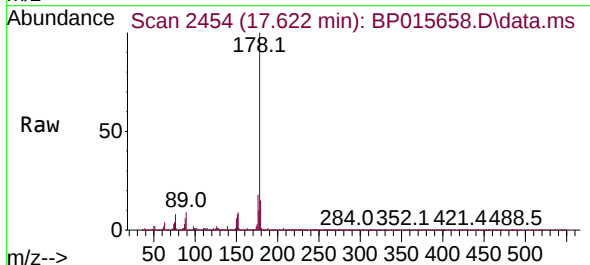
Tgt Ion:178 Resp: 240509  
Ion Ratio Lower Upper  
178 100  
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176 19.5 15.4 23.0

Manual Integrations  
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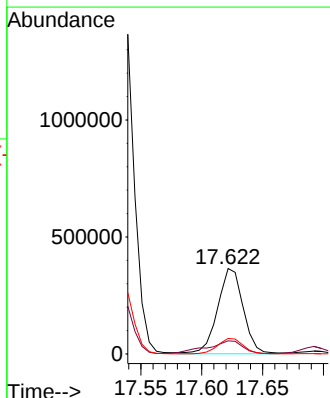
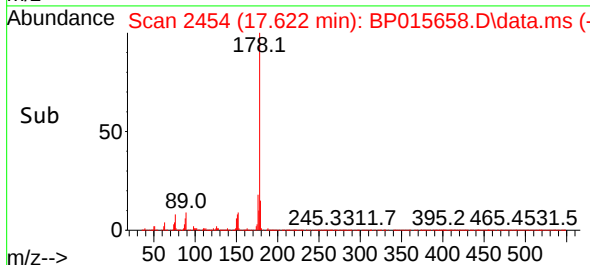
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

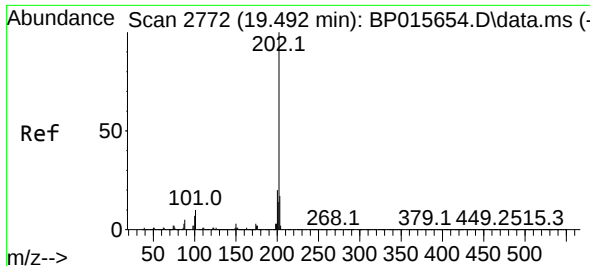


#74  
Anthracene  
Concen: 24.402 ng/ul  
RT: 17.622 min Scan# 2454  
Delta R.T. -0.006 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18



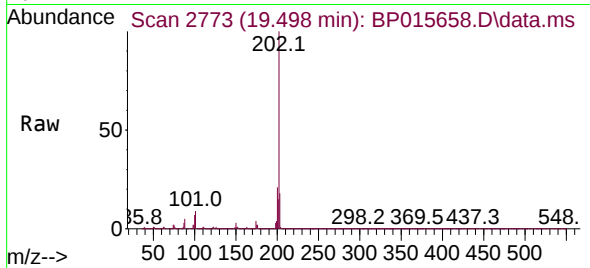
Tgt Ion:178 Resp: 534171  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.4 18.6  
176 18.3 15.0 22.4





#80  
Fluoranthene  
Concen: 189.631 ng/u1  
RT: 19.498 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

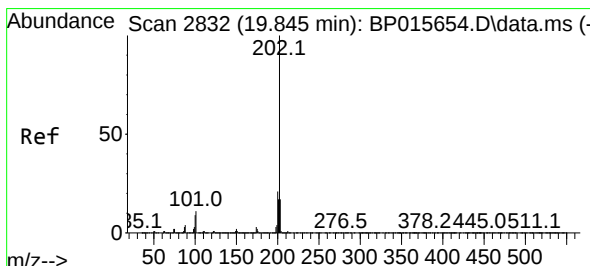
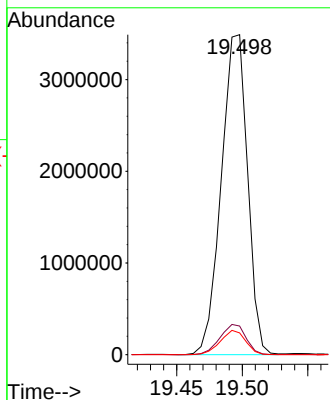
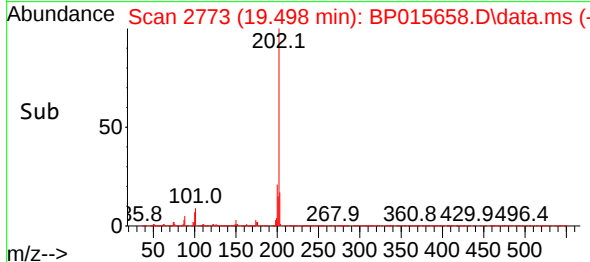
Instrument :  
BNA\_P  
ClientSampleId :  
DCFK9



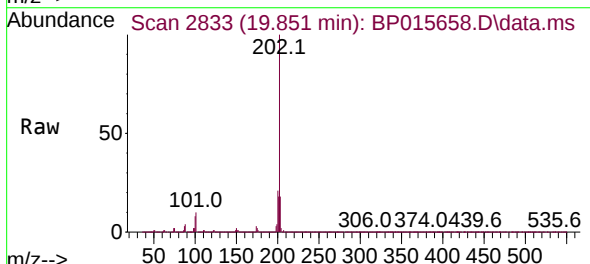
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Ion Ratio Lower Upper  
202 100  
101 8.9 8.6 13.0  
100 6.8 6.6 9.8

Manual Integrations  
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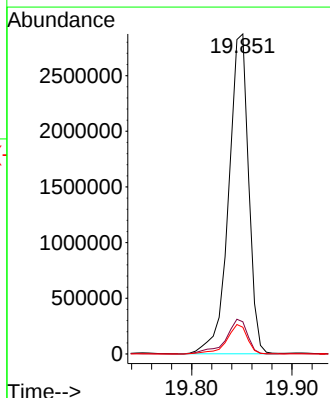
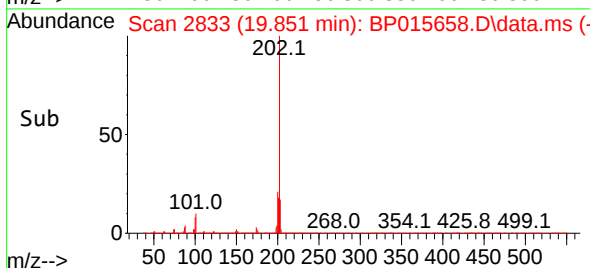
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

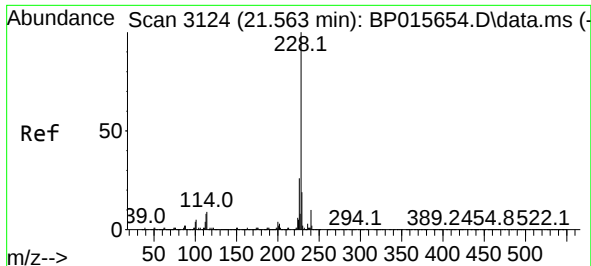


#82  
Pyrene  
Concen: 149.064 ng/u1  
RT: 19.851 min Scan# 2833  
Delta R.T. 0.006 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18



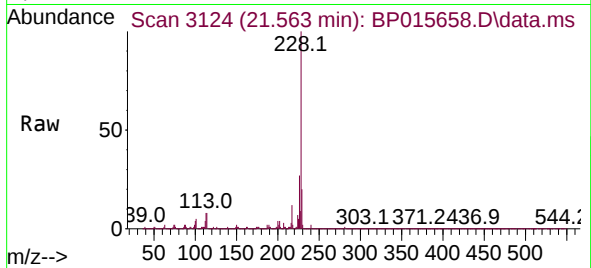
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Ion Ratio Lower Upper  
202 100  
101 10.0 9.9 14.9  
100 8.3 8.4 12.6#





#85  
Benzo(a)anthracene  
Concen: 98.948 ng/u1  
RT: 21.563 min Scan# 3124  
Delta R.T. 0.000 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

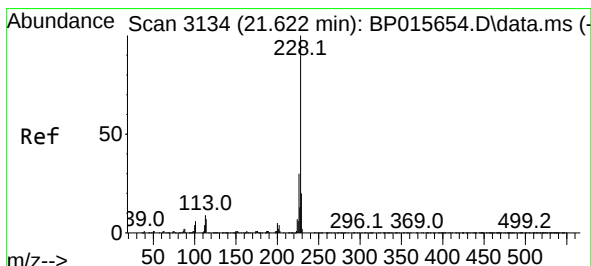
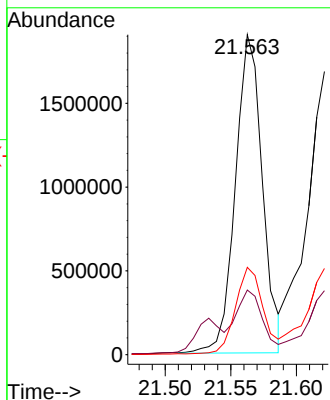
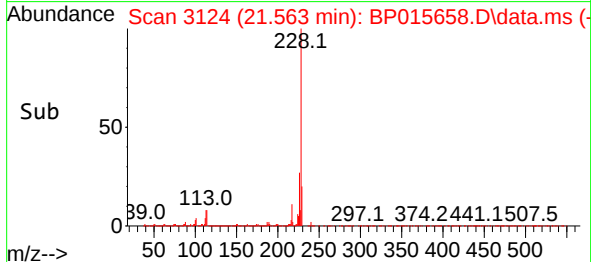
Instrument :  
BNA\_P  
ClientSampleId :  
DCFK9



Tgt Ion:228 Resp: 271908  
Ion Ratio Lower Upper  
228 100  
229 20.2 15.8 23.6  
226 27.3 21.8 32.6

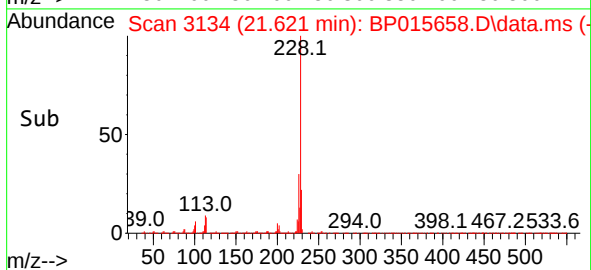
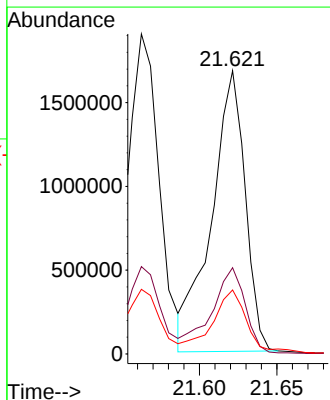
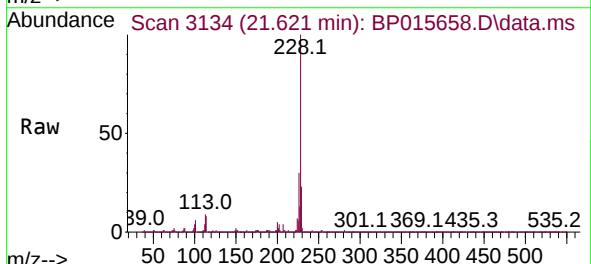
Manual Integrations  
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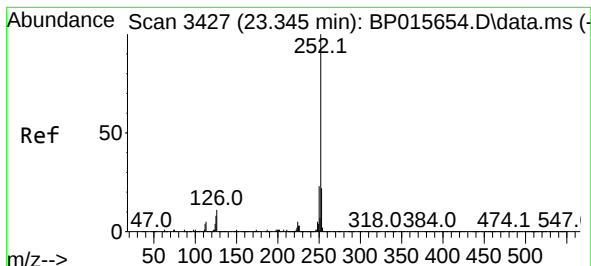
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023



#87  
Chrysene  
Concen: 97.462 ng/u1  
RT: 21.621 min Scan# 3134  
Delta R.T. 0.000 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

Tgt Ion:228 Resp: 2531521  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.9 35.9  
229 22.6 15.1 22.7





#90

Benzo(b)fluoranthene

Concen: 117.086 ng/ul

RT: 23.357 min Scan# 3427

Delta R.T. 0.012 min

Lab File: BP015658.D

Acq: 22 Jun 2023 21:18

Instrument :

BNA\_P

ClientSampleId :

DCFK9

Tgt Ion:252 Resp: 3941500

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

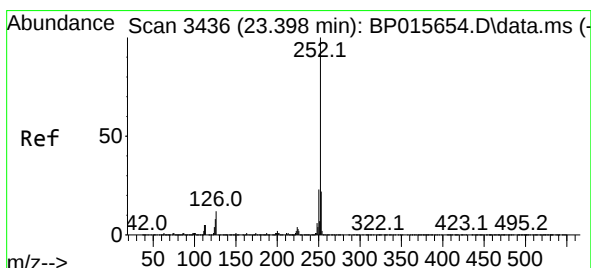
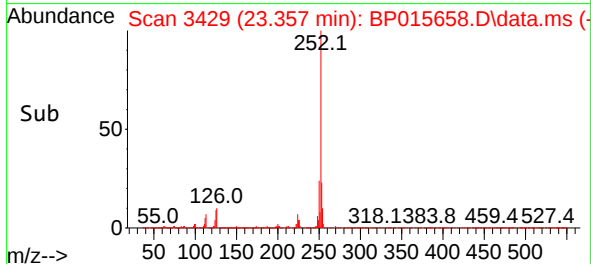
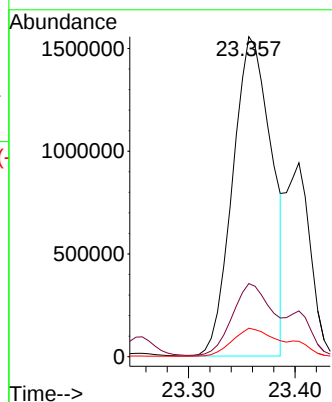
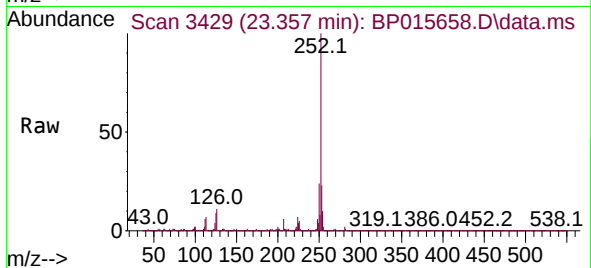
125 8.9 7.3 10.9

Manual Integrations

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Reviewed By :Yogesh Patel 06/23/2023

Supervised By :mohammad ahmed 06/23/2023



#91

Benzo(k)fluoranthene

Concen: 45.228 ng/ul m

RT: 23.404 min Scan# 3437

Delta R.T. 0.006 min

Lab File: BP015658.D

Acq: 22 Jun 2023 21:18

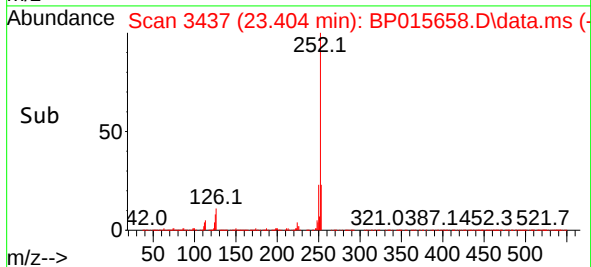
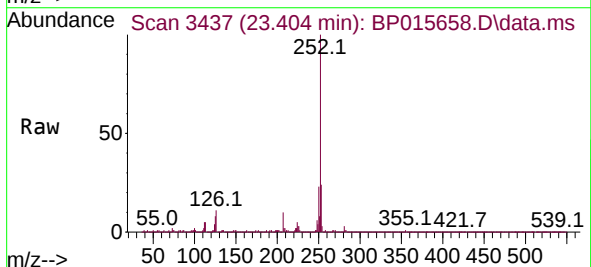
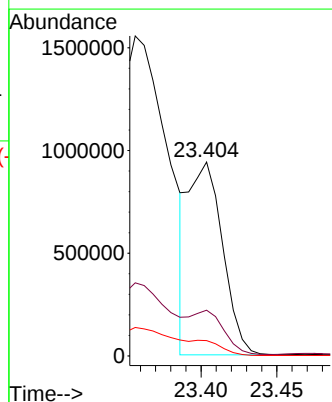
Tgt Ion:252 Resp: 1471778

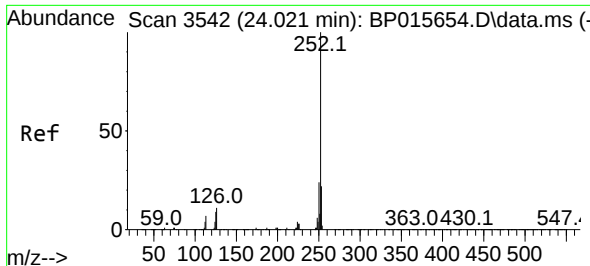
Ion Ratio Lower Upper

252 100

253 23.6 17.7 26.5

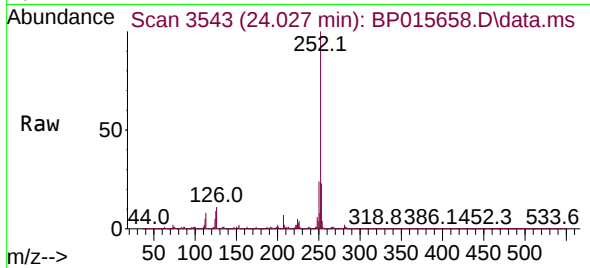
125 8.0 7.3 10.9





#93  
Benzo(a)pyrene  
Concen: 91.311 ng/ul  
RT: 24.027 min Scan# 3543  
Delta R.T. 0.006 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

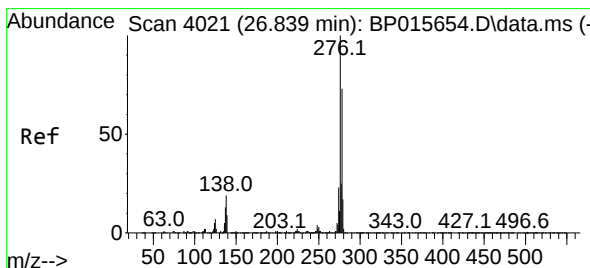
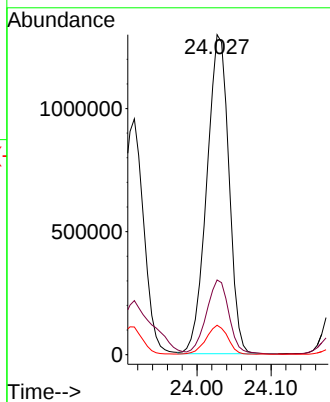
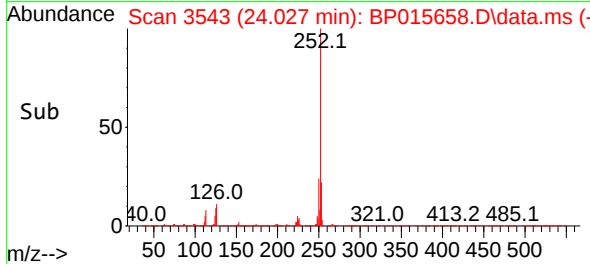
Instrument :  
BNA\_P  
ClientSampleId :  
DCFK9



Tgt Ion:252 Resp: 2679935  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.6  
125 9.2 8.1 12.1

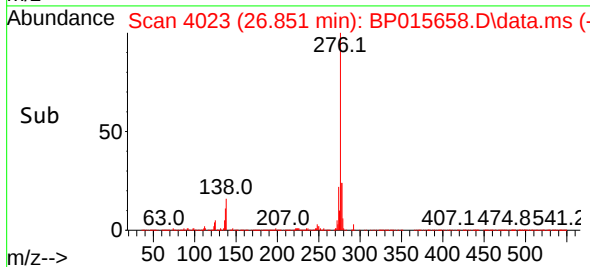
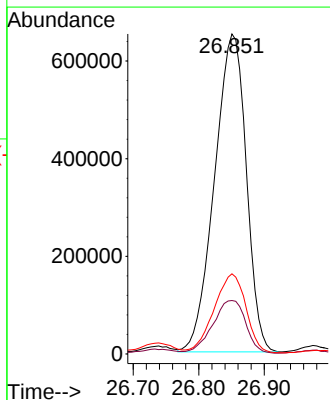
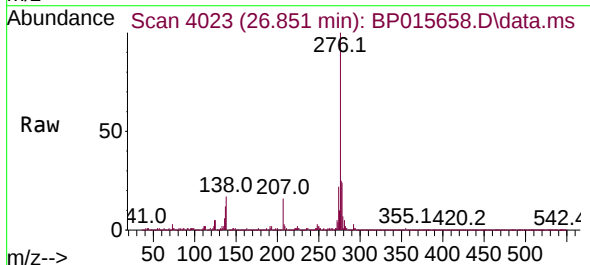
Manual Integrations  
APPROVED

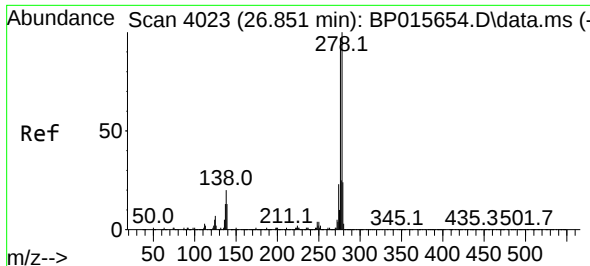
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 57.629 ng/ul  
RT: 26.851 min Scan# 4023  
Delta R.T. 0.012 min  
Lab File: BP015658.D  
Acq: 22 Jun 2023 21:18

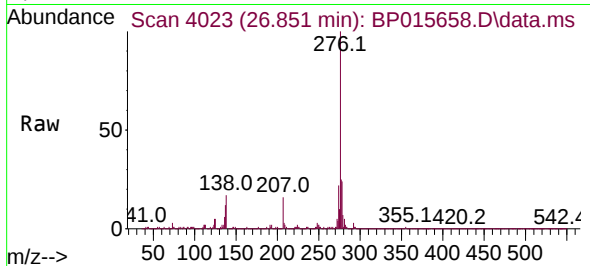
Tgt Ion:276 Resp: 2188955  
Ion Ratio Lower Upper  
276 100  
138 16.7 17.3 25.9#  
277 25.1 20.2 30.2





#95  
 Dibenzo(a,h)anthracene  
 Concen: 19.374 ng/ul  
 RT: 26.851 min Scan# 4023  
 Delta R.T. 0.000 min  
 Lab File: BP015658.D  
 Acq: 22 Jun 2023 21:18

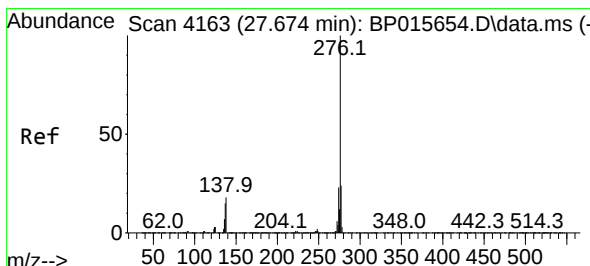
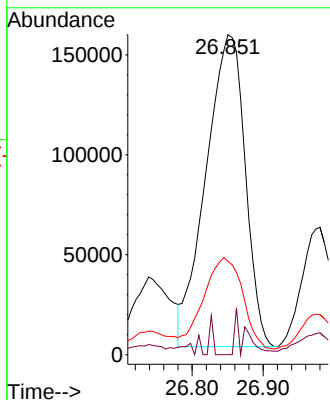
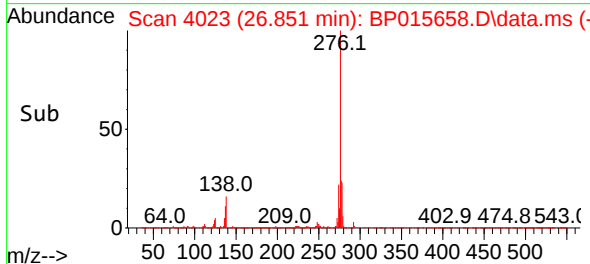
Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCFK9



Tgt Ion:278 Resp: 59952  
 Ion Ratio Lower Upper  
 278 100  
 139 0.0 11.4 17.0  
 279 29.2 18.7 28.1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/23/2023  
 Supervised By :mohammad ahmed 06/23/2023



#96  
 Benzo(g,h,i)perylene  
 Concen: 63.648 ng/ul  
 RT: 27.698 min Scan# 4167  
 Delta R.T. 0.018 min  
 Lab File: BP015658.D  
 Acq: 22 Jun 2023 21:18

Tgt Ion:276 Resp: 1992304  
 Ion Ratio Lower Upper  
 276 100  
 138 17.4 15.6 23.4  
 277 24.5 19.0 28.6

