

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM120423\  
 Data File : BM043171.D  
 Acq On : 04 Dec 2023 11:46  
 Operator : MA/JU  
 Sample : 05459-19DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AA7DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/05/2023  
 Supervised By :mohammad ahmed 12/05/2023

Quant Time: Dec 04 12:19:12 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 02 23:54:55 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.805  | 152  | 854      | 0.400 | ng/ul  | #-0.03   |
| 4) Naphthalene-d8           | 10.605 | 136  | 2467     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.445 | 164  | 1423     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.203 | 188  | 2978     | 0.400 | ng/ul  | #-0.01   |
| 17) Chrysene-d12            | 21.400 | 240  | 2074     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.744 | 264  | 1826m    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.155  | 96   | 1123     | 0.857 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.238 | 152  | 319      | 0.097 | ng/ul  | 0.02     |
| 18) Fluoranthene-d10        | 19.233 | 212  | 794      | 0.105 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.660 | 128  | 1018     | 0.152 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.304 | 142  | 647      | 0.164 | ng/ul  | 94       |
| 8) 1-Methylnaphthalene      | 12.508 | 142  | 445      | 0.101 | ng/ul  | 97       |
| 10) Acenaphthylene          | 14.172 | 152  | 608      | 0.084 | ng/ul# | 85       |
| 11) Acenaphthene            | 14.510 | 153  | 192      | 0.035 | ng/ul# | 92       |
| 12) Fluorene                | 15.509 | 166  | 232      | 0.041 | ng/ul# | 89       |
| 15) Phenanthrene            | 17.245 | 178  | 7587     | 0.893 | ng/ul  | 94       |
| 16) Anthracene              | 17.338 | 178  | 1985     | 0.247 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.261 | 202  | 15152    | 1.289 | ng/ul# | 91       |
| 20) Pyrene                  | 19.628 | 202  | 13295    | 1.063 | ng/ul# | 92       |
| 21) Benzo(a)anthracene      | 21.386 | 228  | 5553     | 0.825 | ng/ul  | 99       |
| 22) Chrysene                | 21.435 | 228  | 5069     | 0.404 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 23.022 | 252  | 6427     | 1.043 | ng/ul  | 88       |
| 25) Benzo(k)fluoranthene    | 23.066 | 252  | 3564m    | 0.420 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.633 | 252  | 4521     | 0.672 | ng/ul# | 84       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.205 | 276  | 3800     | 0.418 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 26.205 | 278  | 818      | 0.116 | ng/ul# | 69       |
| 29) Benzo(g,h,i)perylene    | 26.966 | 276  | 3735     | 0.422 | ng/ul  | 97       |
| -----                       |        |      |          |       |        |          |

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

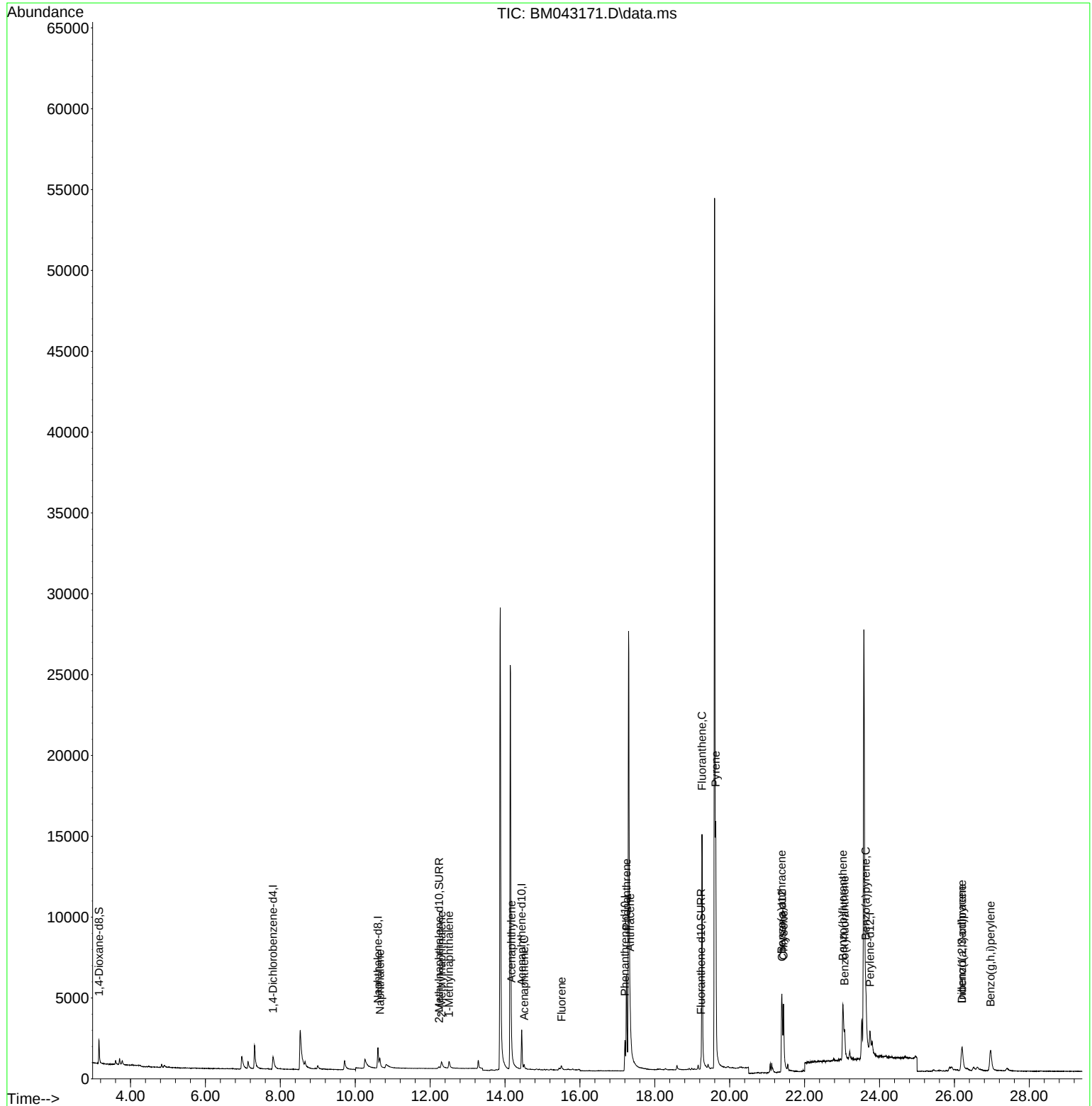
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM120423\  
Data File : BM043171.D  
Acq On : 04 Dec 2023 11:46  
Operator : MA/JU  
Sample : 05459-19DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

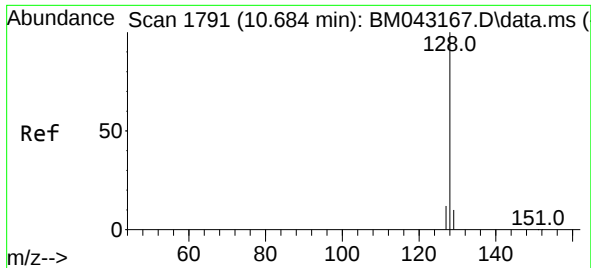
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL

Manual Integrations  
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Supervised By :mohammad ahmed 12/05/2023

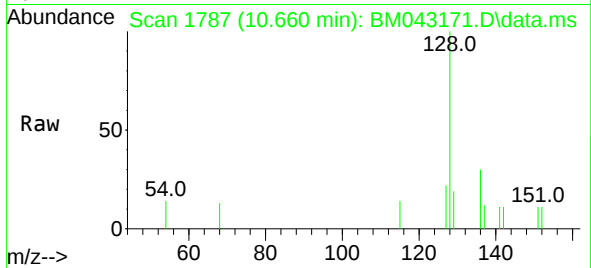
Quant Time: Dec 04 12:19:12 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 02 23:54:55 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.152 ng/ul  
RT: 10.660 min Scan# 1787  
Delta R.T. -0.007 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

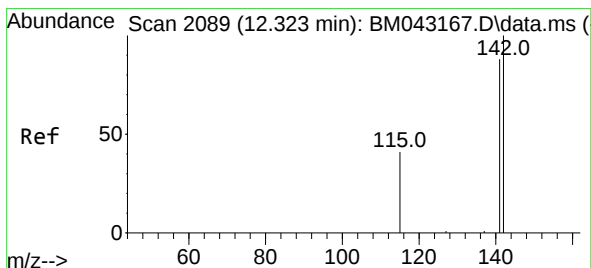
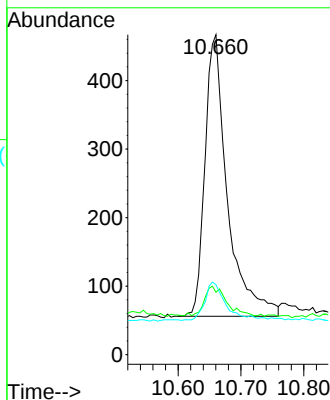
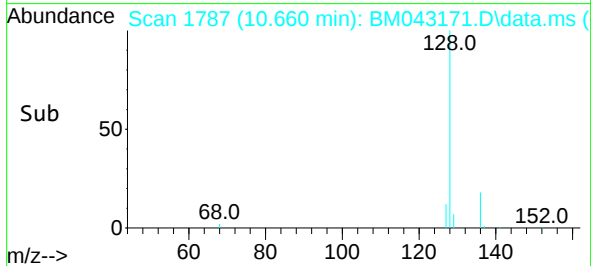
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



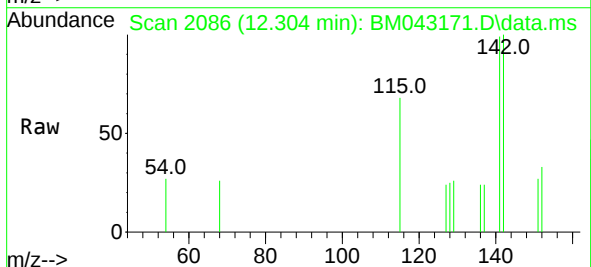
Tgt Ion:128 Resp: 1018  
Ion Ratio Lower Upper  
128 100  
129 19.5 16.0 24.0  
127 21.8 16.5 24.7

Manual Integrations  
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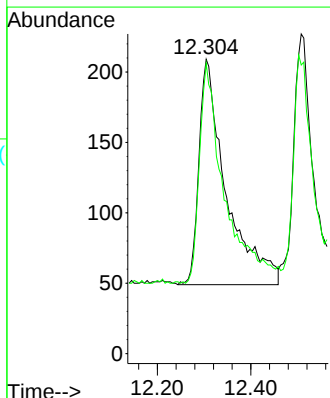
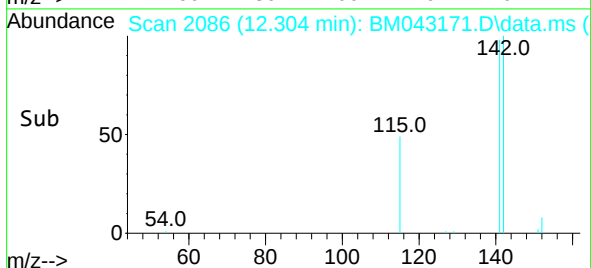
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023

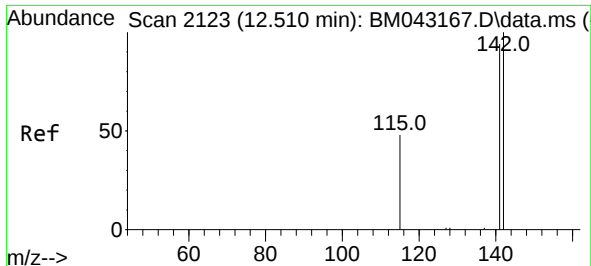


#7  
2-Methylnaphthalene  
Concen: 0.164 ng/ul  
RT: 12.304 min Scan# 2086  
Delta R.T. 0.010 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



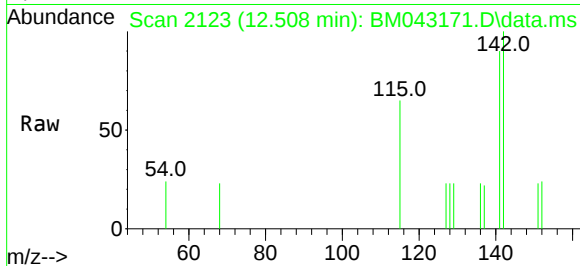
Tgt Ion:142 Resp: 647  
Ion Ratio Lower Upper  
142 100  
141 89.5 76.1 114.1





#8  
1-Methylnaphthalene  
Concen: 0.101 ng/ul  
RT: 12.508 min Scan# 2123  
Delta R.T. 0.010 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

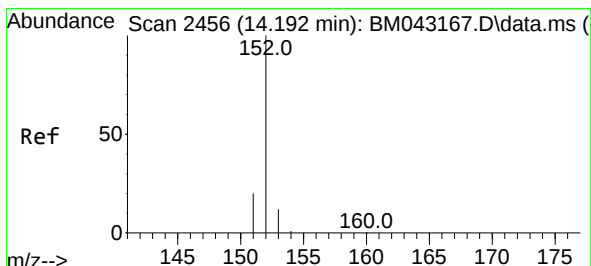
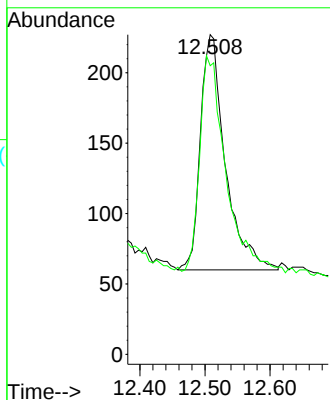
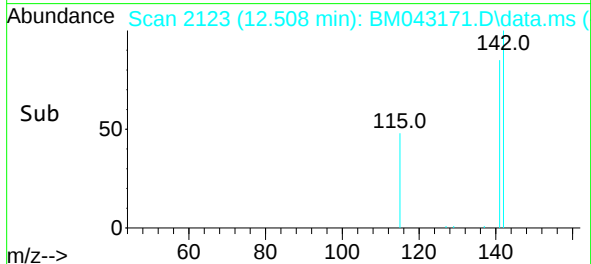
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



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Ion Ratio Lower Upper  
142 100  
141 95.1 73.8 110.8

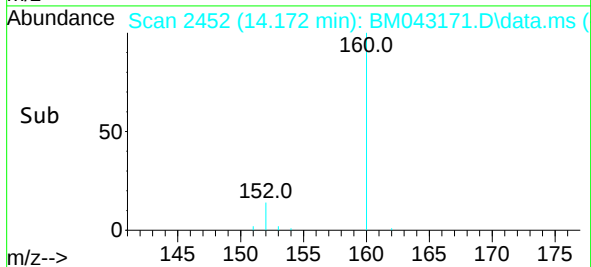
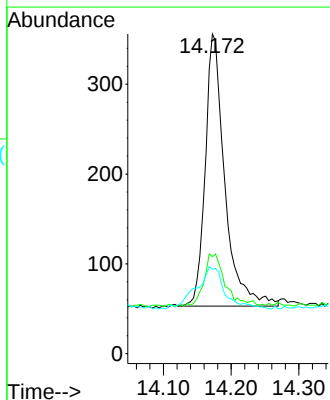
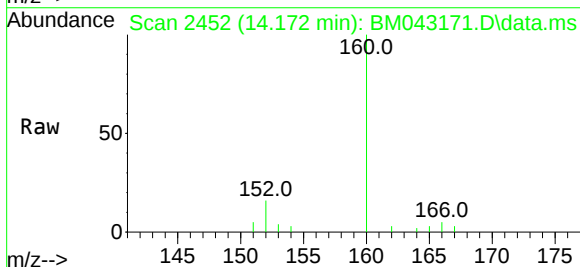
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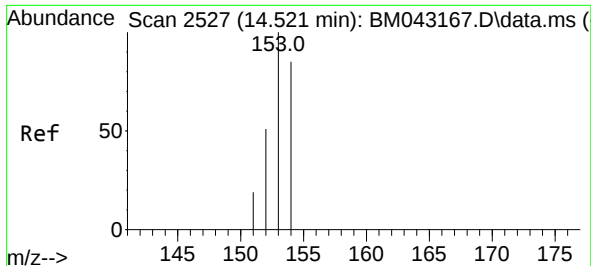
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023



#10  
Acenaphthylene  
Concen: 0.084 ng/ul  
RT: 14.172 min Scan# 2452  
Delta R.T. -0.011 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

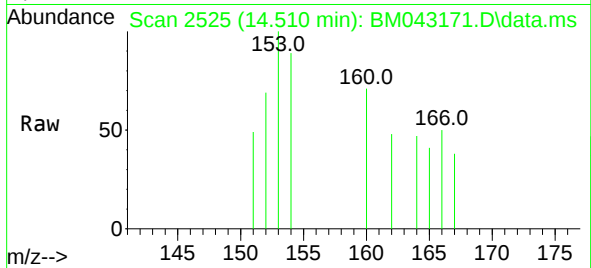
Tgt Ion:152 Resp: 608  
Ion Ratio Lower Upper  
152 100  
151 30.3 19.4 29.0#  
153 26.4 14.6 21.8#





#11  
Acenaphthene  
Concen: 0.035 ng/ul  
RT: 14.510 min Scan# 2525  
Delta R.T. -0.006 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

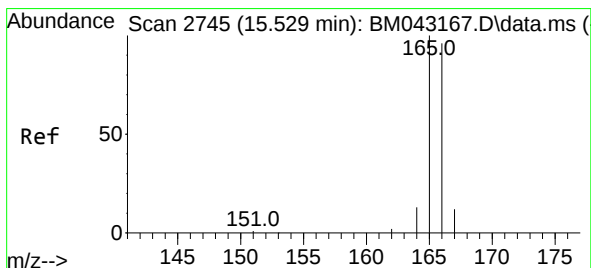
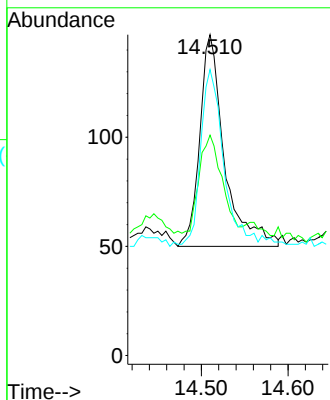
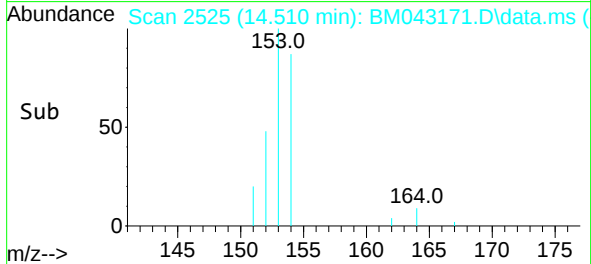
Instrument :  
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ClientSampleId :  
C0AA7DL



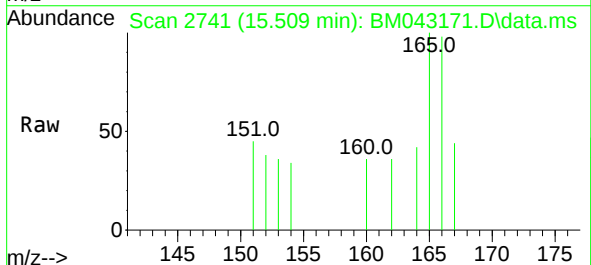
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Ion Ratio Lower Upper  
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152 68.7 43.9 65.9  
154 89.1 70.6 105.8

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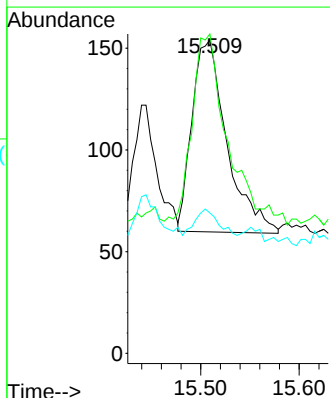
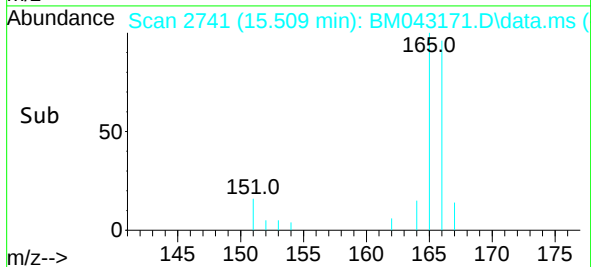
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023

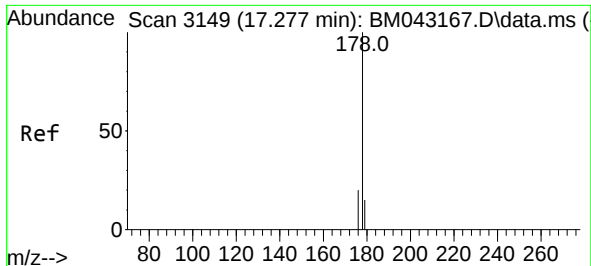


#12  
Fluorene  
Concen: 0.041 ng/ul  
RT: 15.509 min Scan# 2741  
Delta R.T. -0.006 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



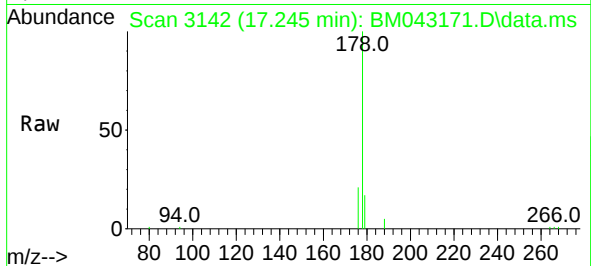
Tgt Ion:166 Resp: 232  
Ion Ratio Lower Upper  
166 100  
165 101.9 79.9 119.9  
167 44.8 14.2 21.4#





#15  
Phenanthrene  
Concen: 0.893 ng/ul  
RT: 17.245 min Scan# 3142  
Delta R.T. -0.014 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

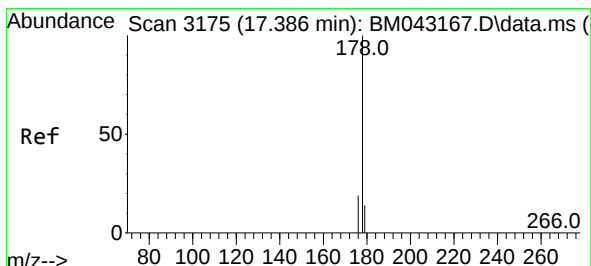
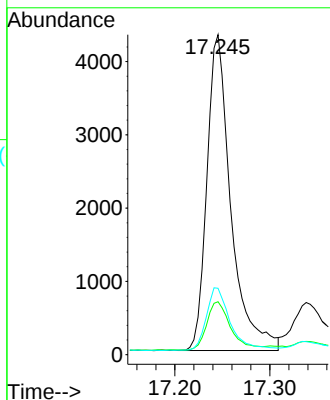
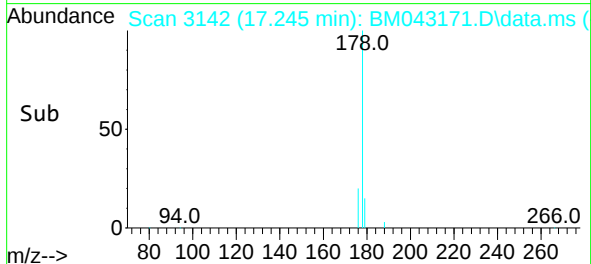
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



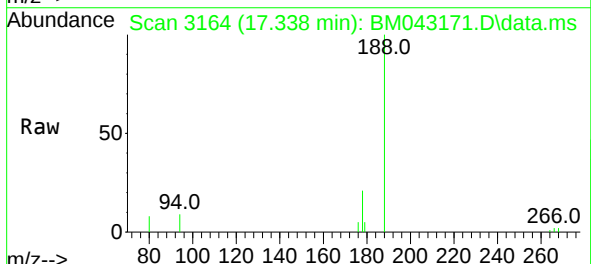
Tgt Ion:178 Resp: 758  
Ion Ratio Lower Upper  
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179 16.6 15.7 23.5  
176 20.8 18.9 28.3

Manual Integrations  
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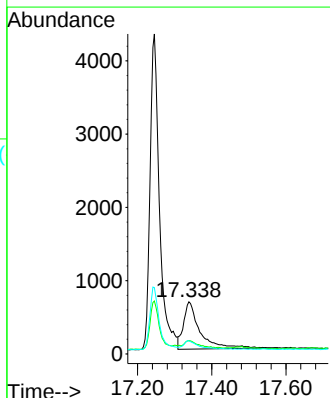
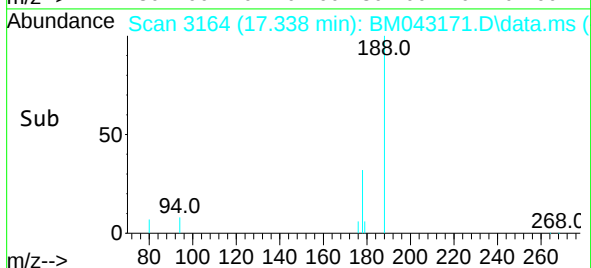
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023

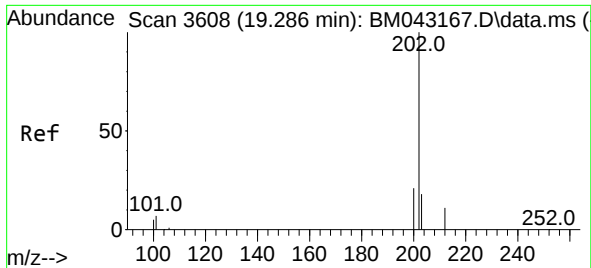


#16  
Anthracene  
Concen: 0.247 ng/ul  
RT: 17.338 min Scan# 3164  
Delta R.T. -0.022 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



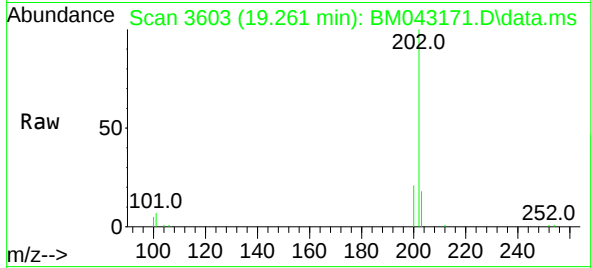
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Ion Ratio Lower Upper  
178 100  
179 25.5 17.3 25.9  
176 24.9 20.5 30.7





#19  
Fluoranthene  
Concen: 1.289 ng/u1  
RT: 19.261 min Scan# 3603  
Delta R.T. -0.011 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

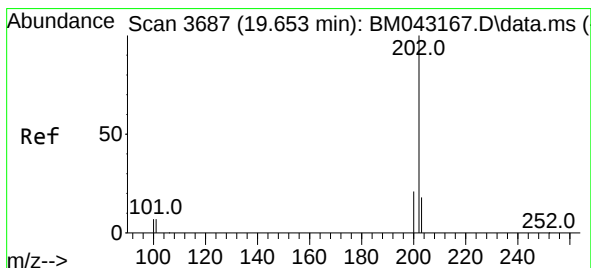
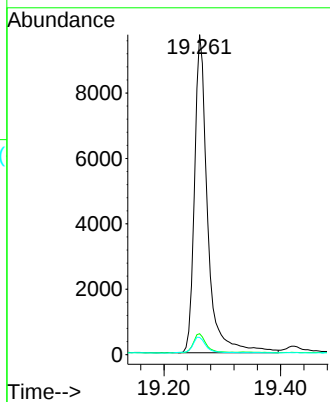
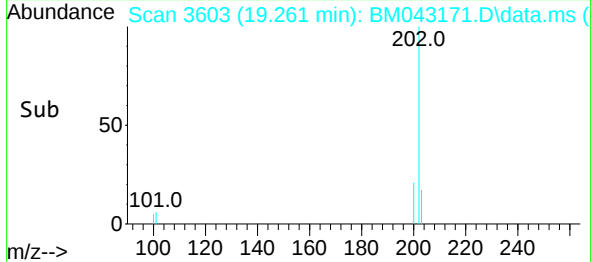
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



Tgt Ion:202 Resp: 1515  
Ion Ratio Lower Upper  
202 100  
101 6.6 7.8 11.8#  
100 5.4 7.1 10.7#

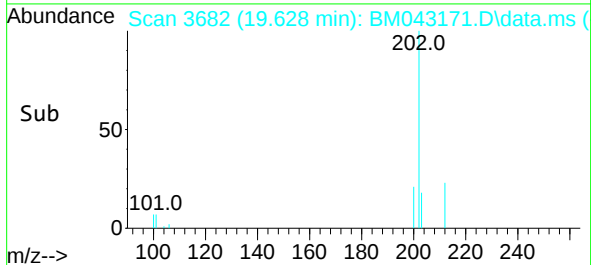
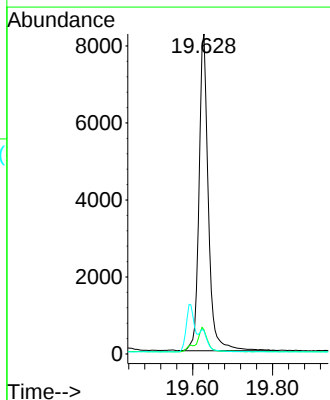
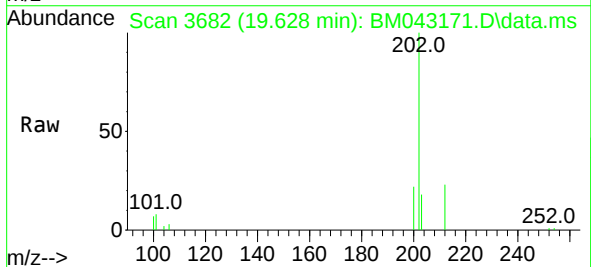
Manual Integrations  
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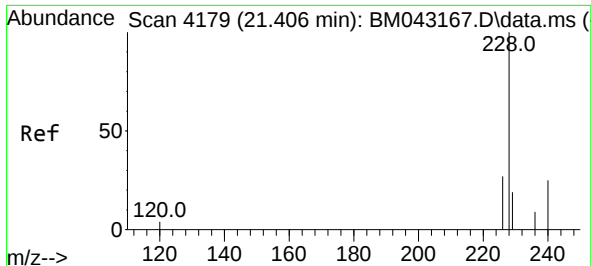
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023



#20  
Pyrene  
Concen: 1.063 ng/u1  
RT: 19.628 min Scan# 3682  
Delta R.T. -0.011 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

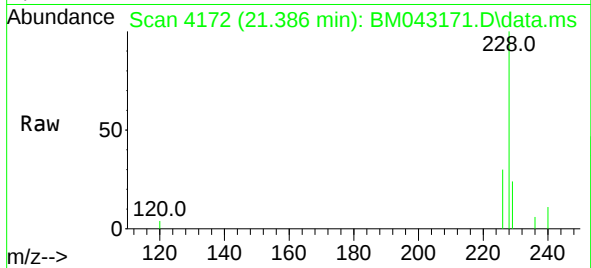
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Ion Ratio Lower Upper  
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101 7.6 8.7 13.1#  
100 7.2 7.8 11.8#





#21  
Benzo(a)anthracene  
Concen: 0.825 ng/ul  
RT: 21.386 min Scan# 4172  
Delta R.T. -0.003 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

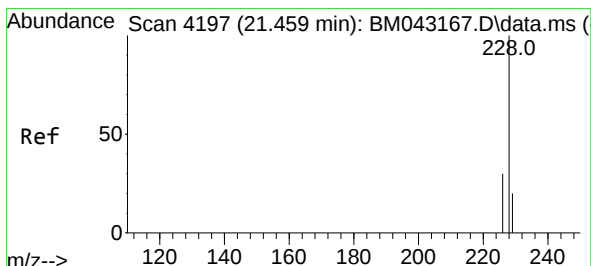
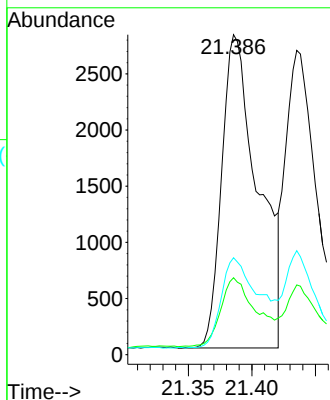
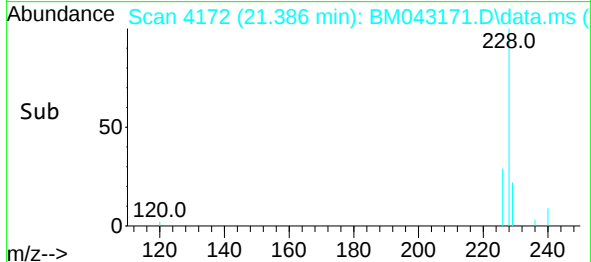
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



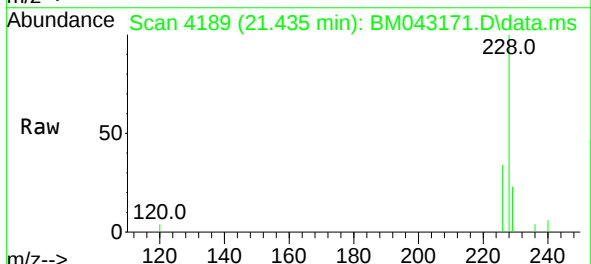
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229 24.0 19.4 29.0  
226 30.3 24.9 37.3

Manual Integrations  
APPROVED

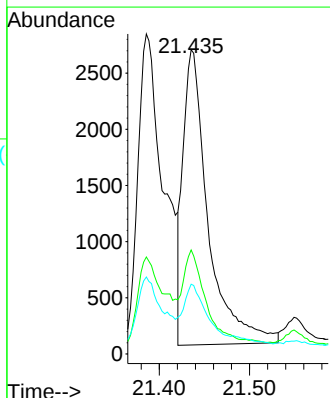
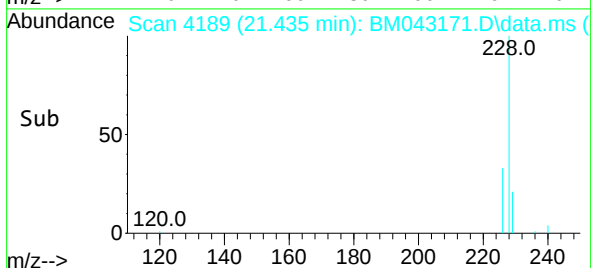
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023

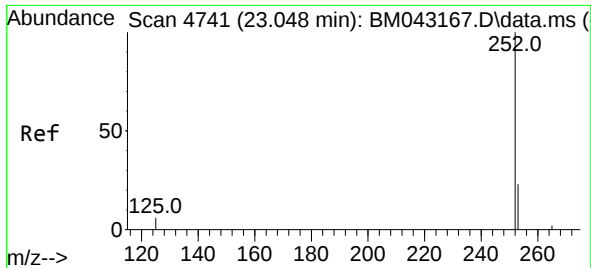


#22  
Chrysene  
Concen: 0.404 ng/ul  
RT: 21.435 min Scan# 4189  
Delta R.T. -0.003 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



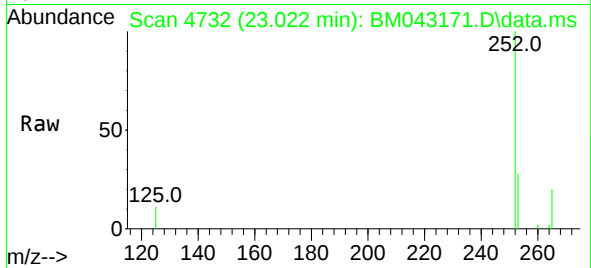
Tgt Ion:228 Resp: 5069  
Ion Ratio Lower Upper  
228 100  
226 34.2 27.2 40.8  
229 22.9 18.0 27.0





#24  
Benzo(b)fluoranthene  
Concen: 1.043 ng/ul  
RT: 23.022 min Scan# 4732  
Delta R.T. -0.005 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

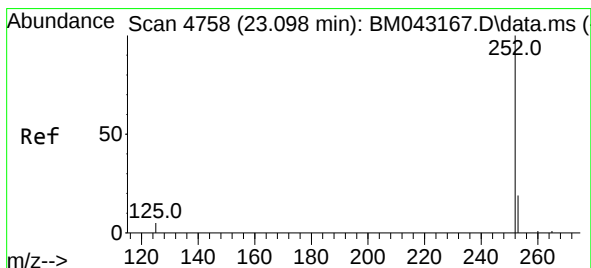
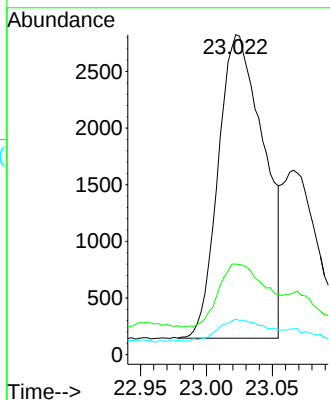
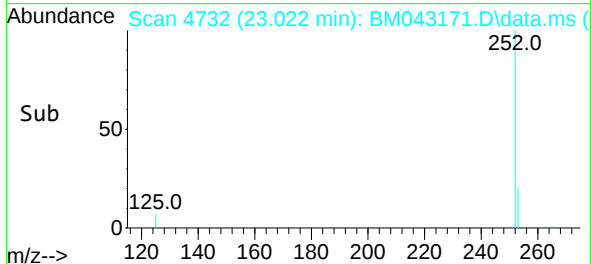
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



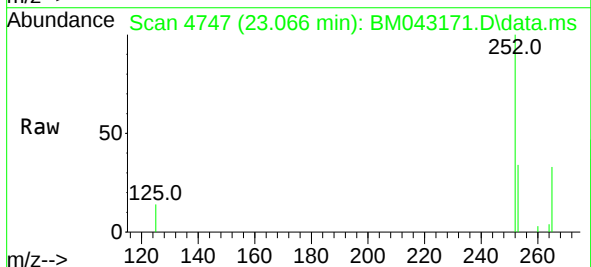
Tgt Ion:252 Resp: 642  
Ion Ratio Lower Upper  
252 100  
253 28.3 0.0 71.8  
125 11.1 0.0 29.0

Manual Integrations  
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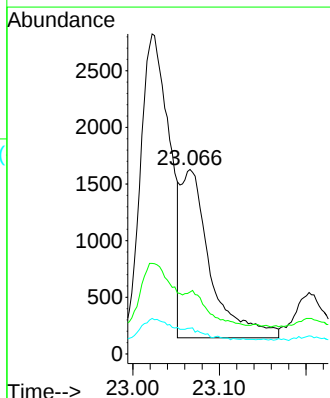
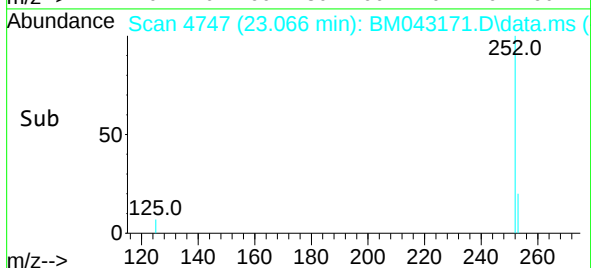
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023

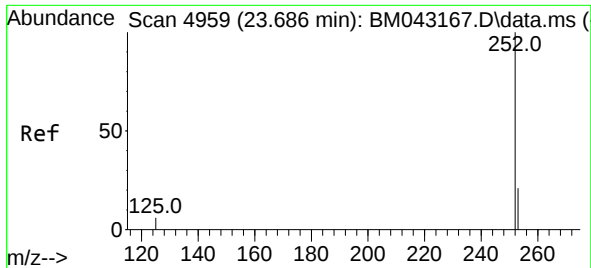


#25  
Benzo(k)fluoranthene  
Concen: 0.420 ng/ul m  
RT: 23.066 min Scan# 4747  
Delta R.T. -0.011 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



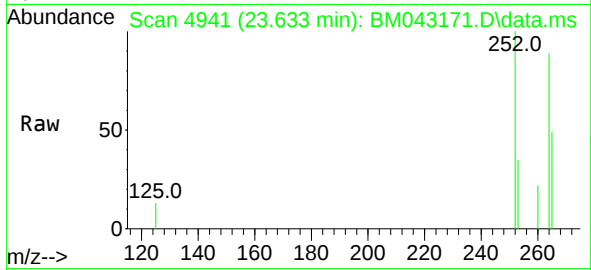
Tgt Ion:252 Resp: 3564  
Ion Ratio Lower Upper  
252 100  
253 33.6 28.2 42.2  
125 13.9 11.0 16.6





#26  
Benzo(a)pyrene  
Concen: 0.672 ng/ul  
RT: 23.633 min Scan# 4959  
Delta R.T. -0.017 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

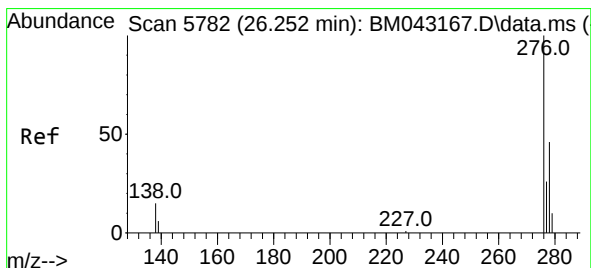
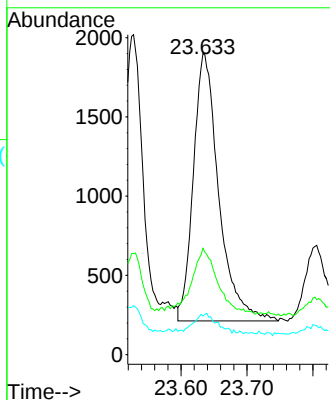
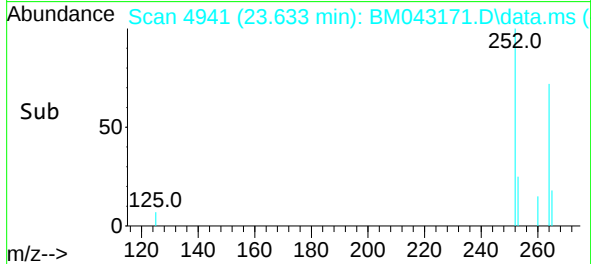
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



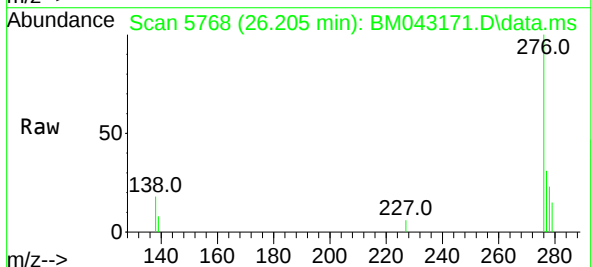
Tgt Ion:252 Resp: 452  
Ion Ratio Lower Upper  
252 100  
253 35.3 36.6 55.0#  
125 12.8 16.2 24.4#

Manual Integrations  
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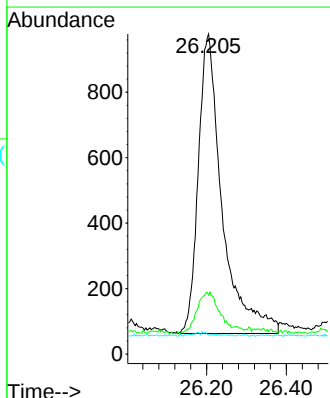
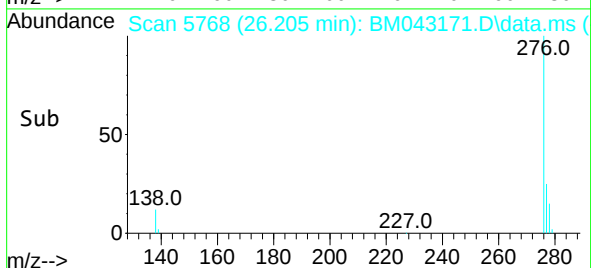
Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023

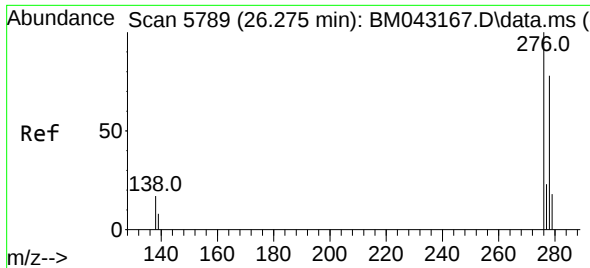


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.418 ng/ul  
RT: 26.205 min Scan# 5768  
Delta R.T. 0.000 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



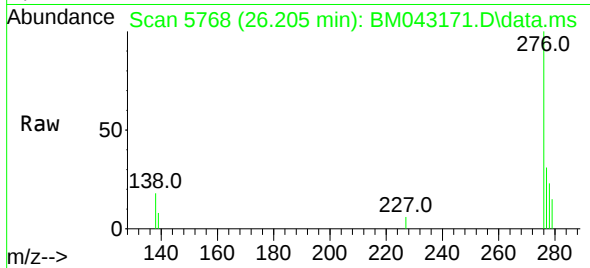
Tgt Ion:276 Resp: 3800  
Ion Ratio Lower Upper  
276 100  
138 13.4 0.0 0.0#  
227 0.1 0.2 0.2#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.116 ng/ul  
RT: 26.205 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46

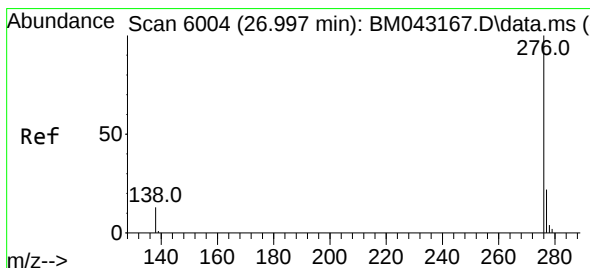
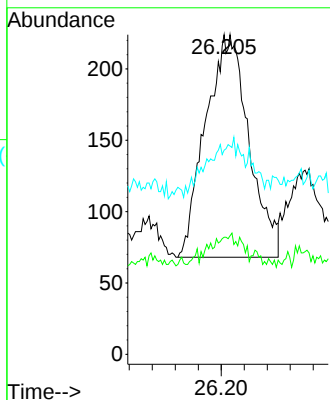
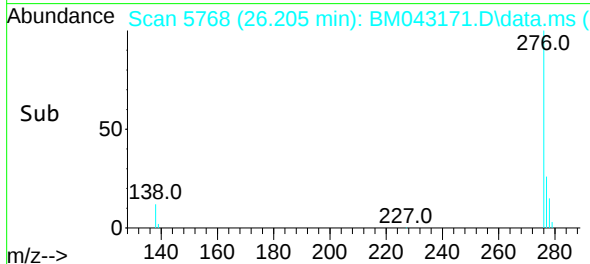
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA7DL



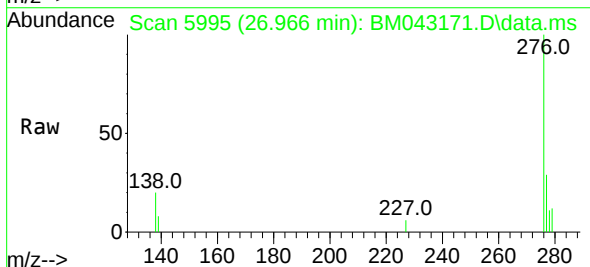
Tgt Ion:278 Resp: 818  
Ion Ratio Lower Upper  
278 100  
139 36.6 18.1 27.1  
279 63.8 34.4 51.6

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/05/2023  
Supervised By :mohammad ahmed 12/05/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.422 ng/ul  
RT: 26.966 min Scan# 5995  
Delta R.T. 0.007 min  
Lab File: BM043171.D  
Acq: 04 Dec 2023 11:46



Tgt Ion:276 Resp: 3735  
Ion Ratio Lower Upper  
276 100  
138 20.0 17.8 26.8  
277 29.2 23.8 35.8

