

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN101923\  
 Data File : BN028330.D  
 Acq On : 19 Oct 2023 15:37  
 Operator : MA/JU  
 Sample : 04696-01  
 Misc : SFAM-SIM-MDL-WATER-01  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-WATER-QT4-2023-07

Quant Time: Oct 19 16:41:38 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN100323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 16 16:16:04 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/20/2023  
 Supervised By :mohammad ahmed 10/21/2023

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.895  | 152  | 2905     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.724 | 136  | 9973     | 0.400 | ng/ul  | 0.01     |
| 9) Acenaphthene-d10         | 14.546 | 164  | 5987     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.308 | 188  | 13151    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.495 | 240  | 11958    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.942 | 264  | 11139    | 0.400 | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.262  | 96   | 1688     | 0.463 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.313 | 152  | 5502     | 0.342 | ng/ul  | 0.01     |
| 18) Fluoranthene-d10        | 19.329 | 212  | 15116    | 0.399 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.300  | 88   | 395m     | 0.102 | ng/ul  |          |
| 5) Naphthalene              | 10.779 | 128  | 1960     | 0.069 | ng/ul# | 81       |
| 7) 2-Methylnaphthalene      | 12.396 | 142  | 1169     | 0.065 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.599 | 142  | 1202     | 0.065 | ng/ul  | 97       |
| 10) Acenaphthylene          | 14.277 | 152  | 1765     | 0.065 | ng/ul# | 82       |
| 11) Acenaphthene            | 14.606 | 153  | 1528     | 0.071 | ng/ul  | 93       |
| 12) Fluorene                | 15.614 | 166  | 1699     | 0.071 | ng/ul# | 90       |
| 14) Pentachlorophenol       | 16.974 | 266  | 194      | 0.069 | ng/ul# | 84       |
| 15) Phenanthrene            | 17.350 | 178  | 2791     | 0.071 | ng/ul# | 88       |
| 16) Anthracene              | 17.451 | 178  | 2255     | 0.064 | ng/ul# | 84       |
| 19) Fluoranthene            | 19.362 | 202  | 3376     | 0.074 | ng/ul# | 93       |
| 20) Pyrene                  | 19.734 | 202  | 3477     | 0.073 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.481 | 228  | 2922     | 0.067 | ng/ul  | 95       |
| 22) Chrysene                | 21.533 | 228  | 3324     | 0.075 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 23.188 | 252  | 3065     | 0.074 | ng/ul# | 65       |
| 25) Benzo(k)fluoranthene    | 23.237 | 252  | 3095     | 0.075 | ng/ul# | 65       |
| 26) Benzo(a)pyrene          | 23.837 | 252  | 2717     | 0.077 | ng/ul# | 51       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.525 | 276  | 3104     | 0.073 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 26.532 | 278  | 2587     | 0.075 | ng/ul# | 63       |
| 29) Benzo(g,h,i)perylene    | 27.330 | 276  | 2733     | 0.078 | ng/ul# | 83       |
| -----                       |        |      |          |       |        |          |

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

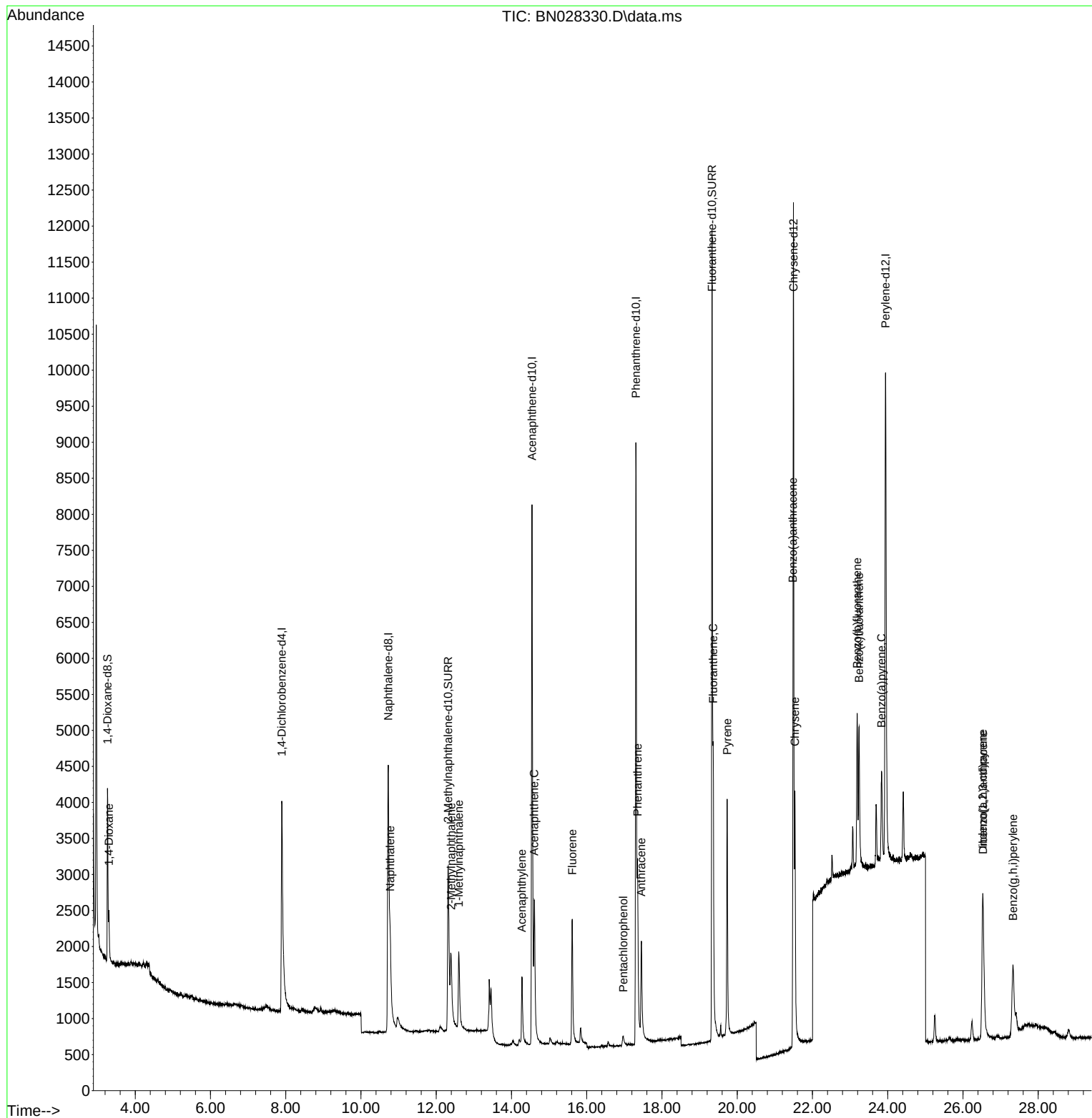
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN101923\  
Data File : BN028330.D  
Acq On : 19 Oct 2023 15:37  
Operator : MA/JU  
Sample : 04696-01  
Misc : SFAM-SIM-MDL-WATER-01  
ALS Vial : 5 Sample Multiplier: 1

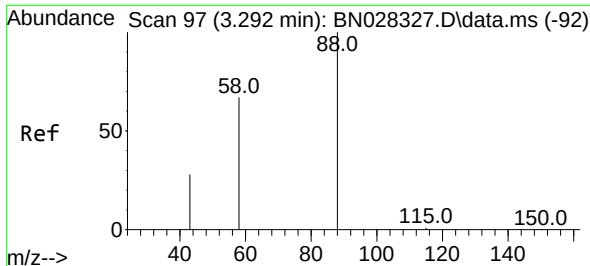
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Quant Time: Oct 19 16:41:38 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN100323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 16 16:16:04 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

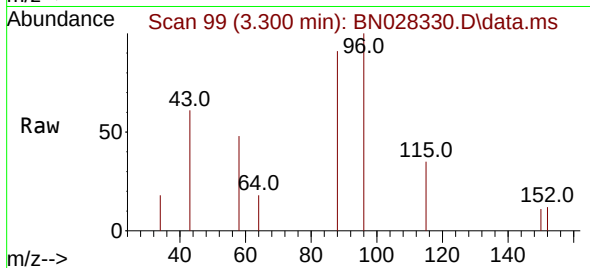
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023





#2  
1,4-Dioxane  
Concen: 0.102 ng/ul m  
RT: 3.300 min Scan# 99  
Delta R.T. -0.000 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

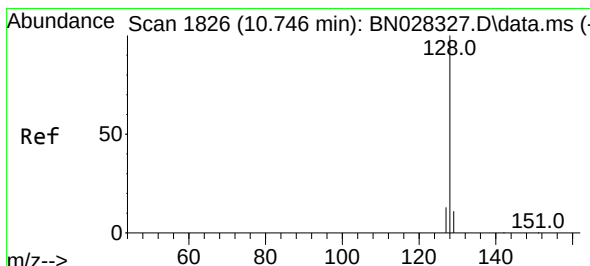
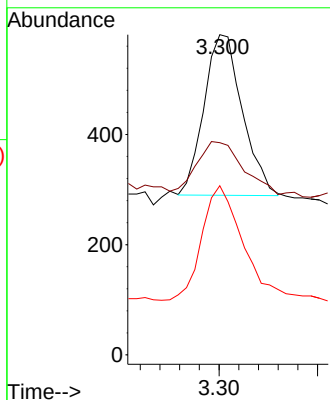
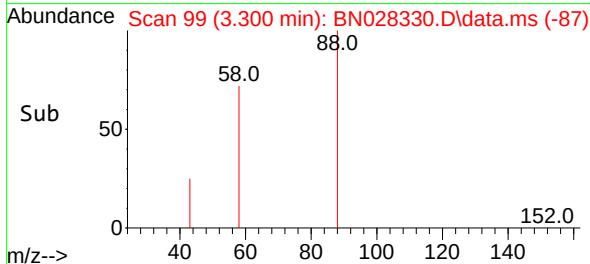
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



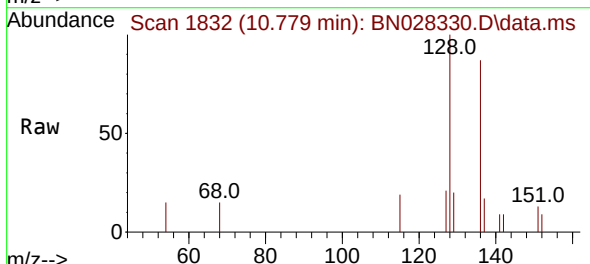
Tgt Ion: 88 Resp: 395  
Ion Ratio Lower Upper  
88 100  
43 66.3 33.4 50.2  
58 52.8 45.7 68.5

Manual Integrations  
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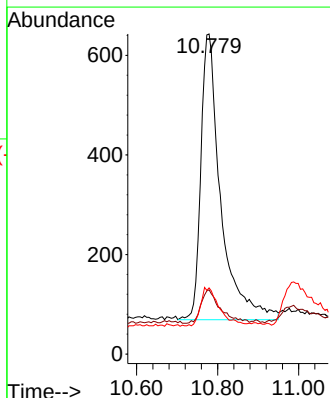
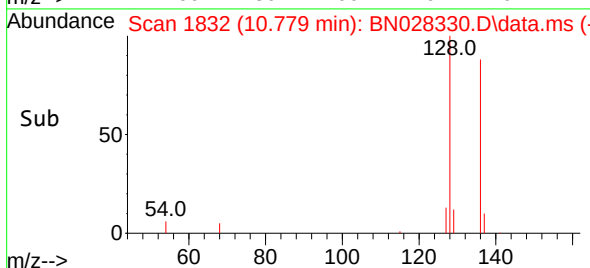
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023

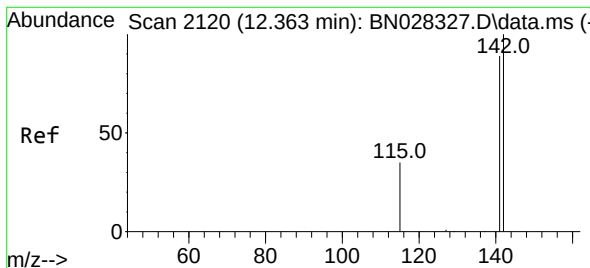


#5  
Naphthalene  
Concen: 0.069 ng/ul  
RT: 10.779 min Scan# 1832  
Delta R.T. 0.016 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37



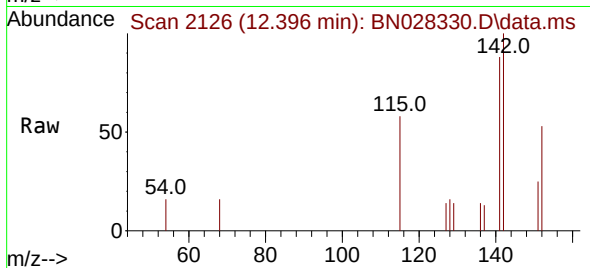
Tgt Ion:128 Resp: 1960  
Ion Ratio Lower Upper  
128 100  
129 20.1 9.4 14.0#  
127 20.7 11.0 16.4#





#7  
2-Methylnaphthalene  
Concen: 0.065 ng/ul  
RT: 12.396 min Scan# 2126  
Delta R.T. 0.016 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

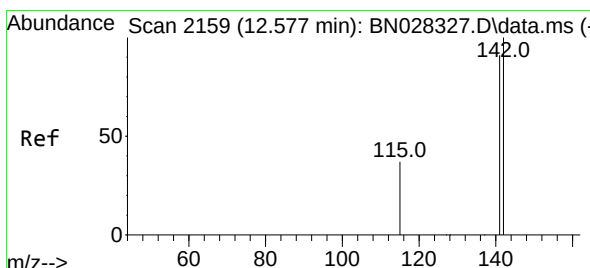
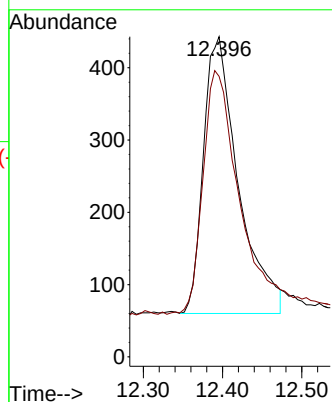
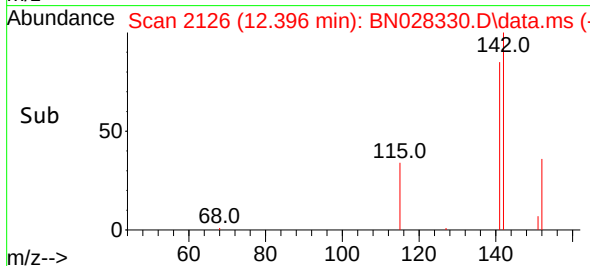
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



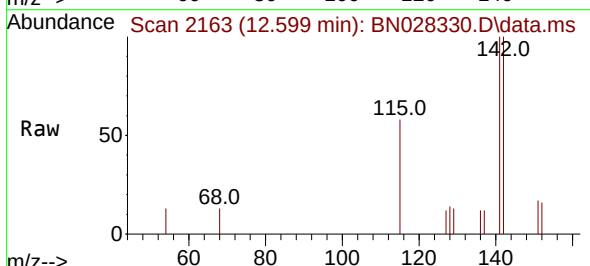
Tgt Ion:142 Resp: 1169  
Ion Ratio Lower Upper  
142 100  
141 91.4 70.9 106.3

Manual Integrations  
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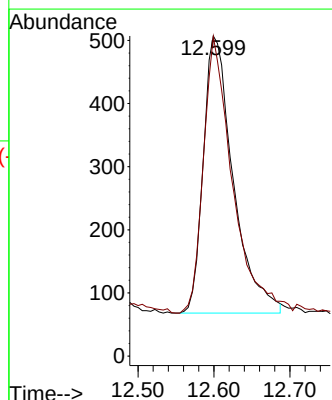
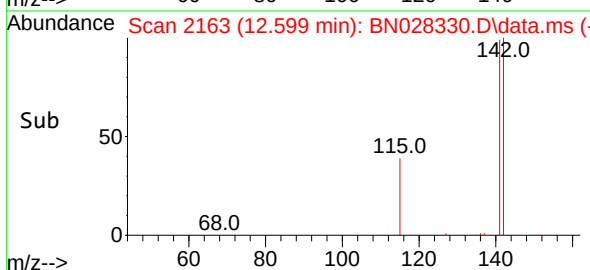
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023

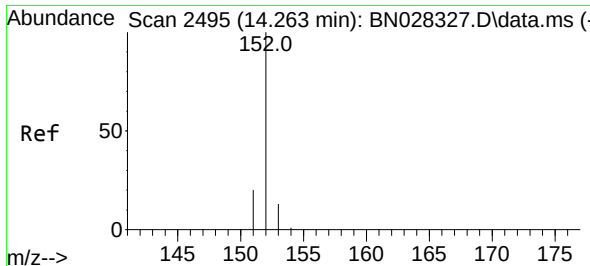


#8  
1-Methylnaphthalene  
Concen: 0.065 ng/ul  
RT: 12.599 min Scan# 2163  
Delta R.T. 0.005 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37



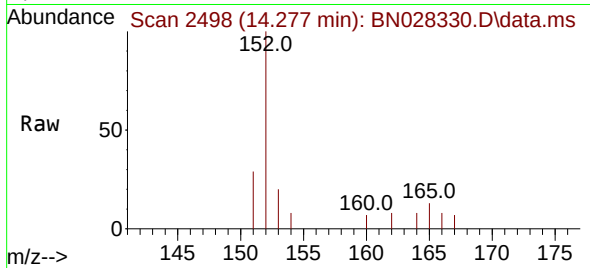
Tgt Ion:142 Resp: 1202  
Ion Ratio Lower Upper  
142 100  
141 96.0 74.4 111.6





#10  
Acenaphthylene  
Concen: 0.065 ng/ul  
RT: 14.277 min Scan# 2498  
Delta R.T. 0.005 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

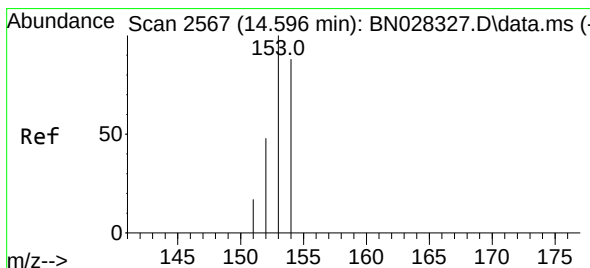
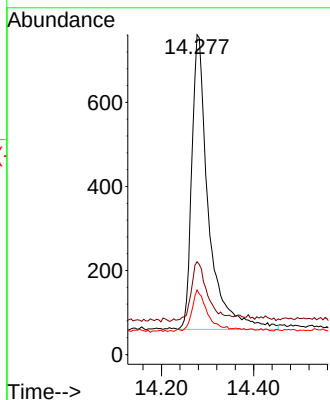
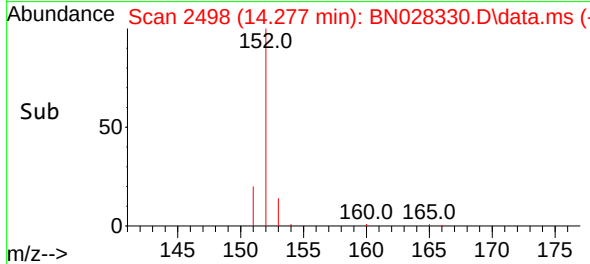
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion:152 Resp: 176  
Ion Ratio Lower Upper  
152 100  
151 29.0 16.4 24.6  
153 20.2 10.9 16.3

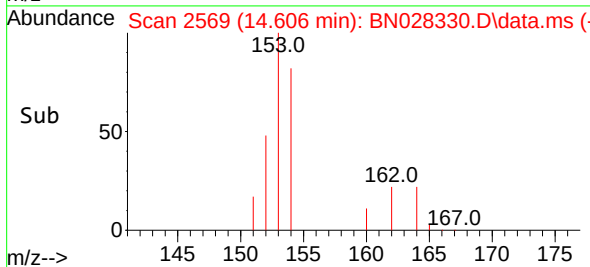
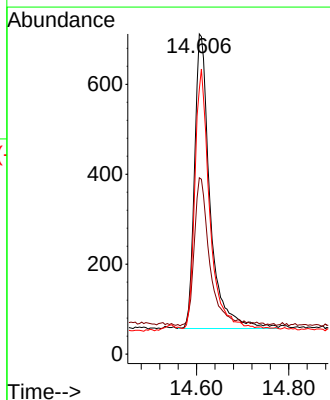
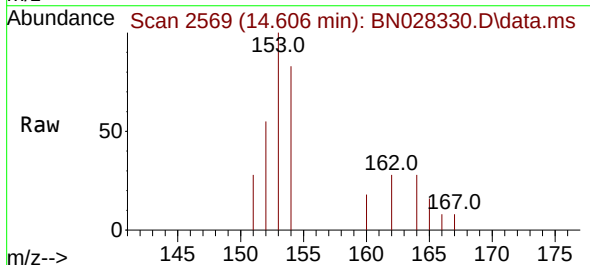
Manual Integrations  
APPROVED

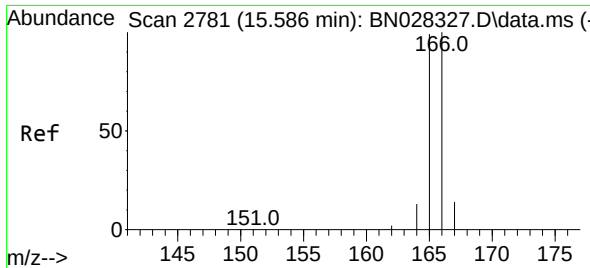
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023



#11  
Acenaphthene  
Concen: 0.071 ng/ul  
RT: 14.606 min Scan# 2569  
Delta R.T. -0.000 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

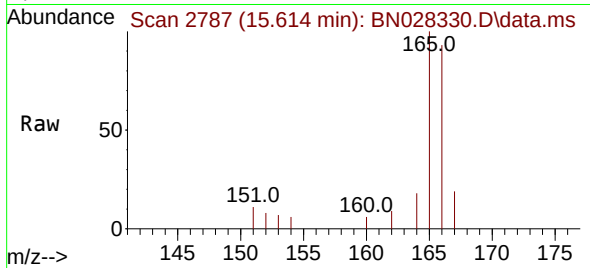
Tgt Ion:153 Resp: 1528  
Ion Ratio Lower Upper  
153 100  
152 55.1 39.4 59.0  
154 82.7 70.2 105.4





#12  
Fluorene  
Concen: 0.071 ng/ul  
RT: 15.614 min Scan# 21  
Delta R.T. 0.014 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

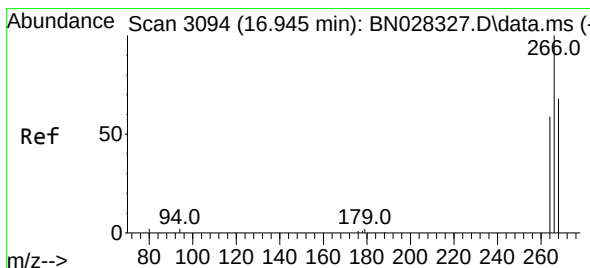
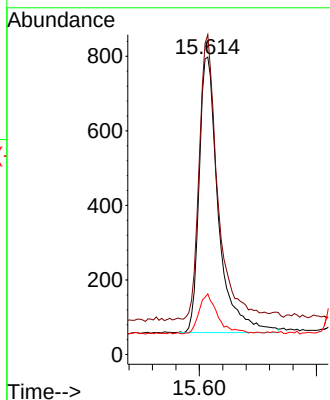
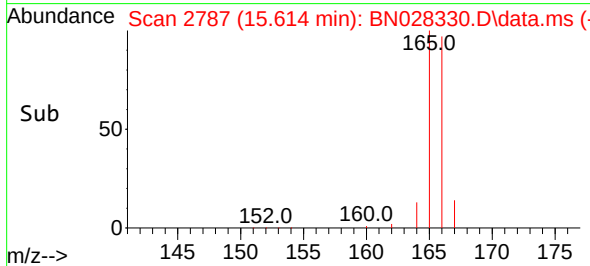
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion:166 Resp: 169  
Ion Ratio Lower Upper  
166 100  
165 107.5 78.5 117.7  
167 20.4 11.2 16.8

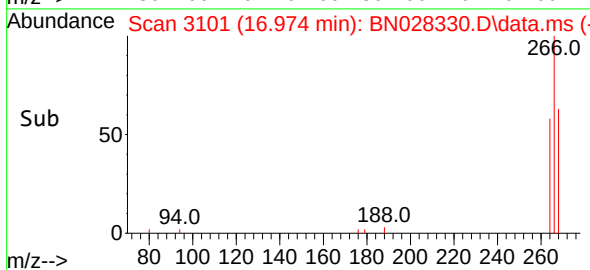
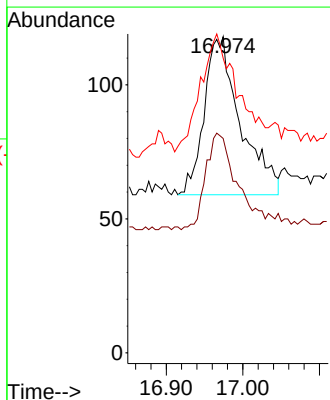
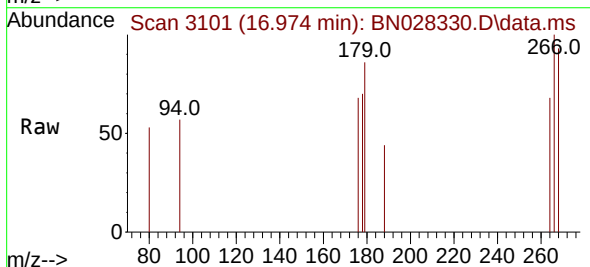
Manual Integrations  
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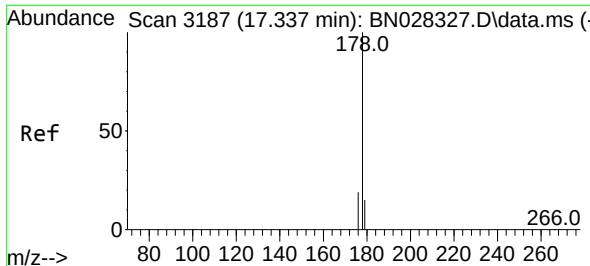
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023



#14  
Pentachlorophenol  
Concen: 0.069 ng/ul  
RT: 16.974 min Scan# 3101  
Delta R.T. 0.013 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

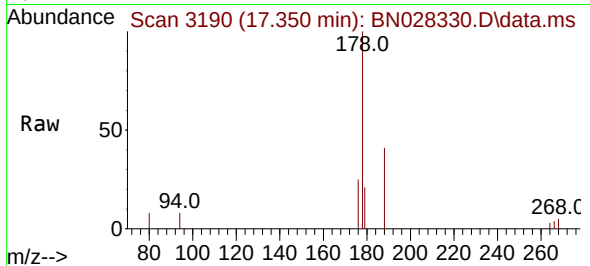
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Ion Ratio Lower Upper  
266 100  
264 55.7 49.6 74.4  
268 83.5 52.2 78.4





#15  
Phenanthrene  
Concen: 0.071 ng/u1  
RT: 17.350 min Scan# 3187  
Delta R.T. 0.005 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

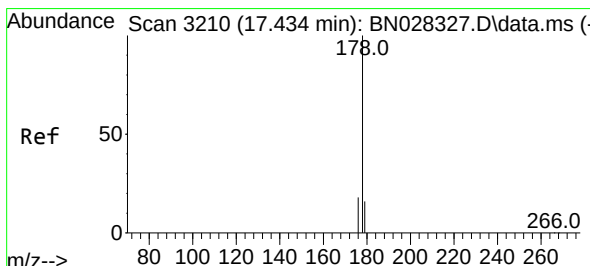
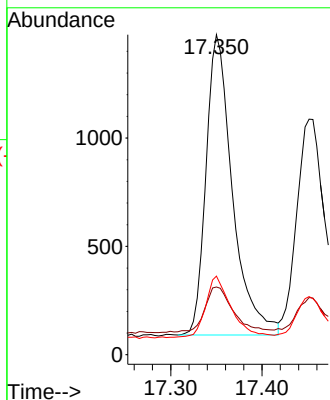
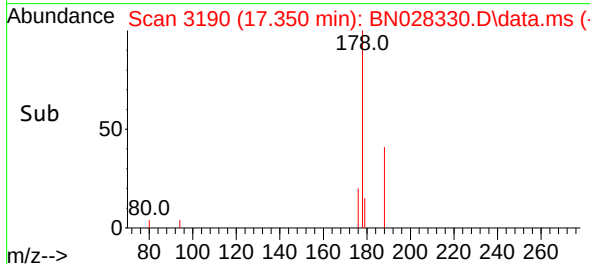
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion:178 Resp: 279  
Ion Ratio Lower Upper  
178 100  
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176 24.6 15.5 23.3#

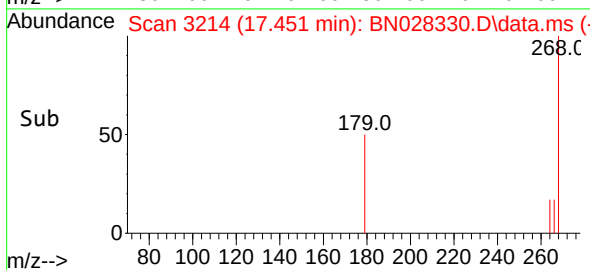
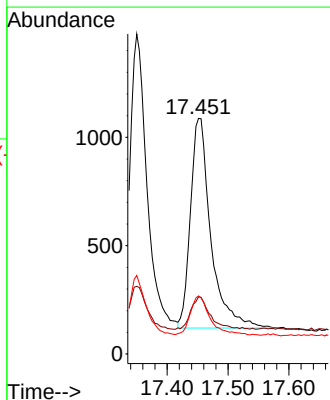
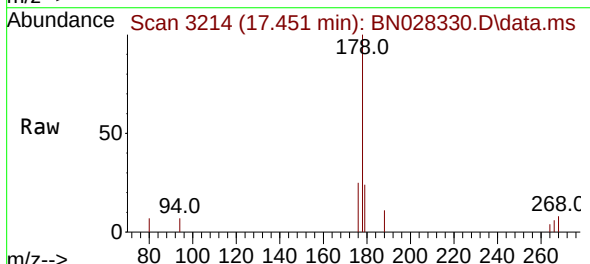
Manual Integrations  
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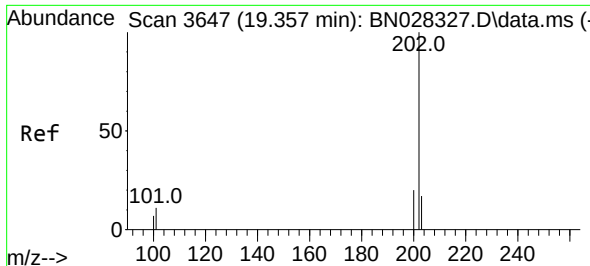
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023



#16  
Anthracene  
Concen: 0.064 ng/u1  
RT: 17.451 min Scan# 3214  
Delta R.T. 0.009 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

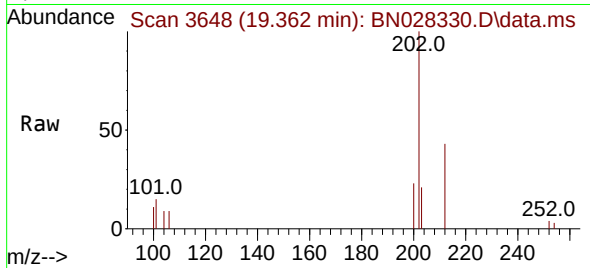
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Ion Ratio Lower Upper  
178 100  
179 24.3 12.8 19.2#  
176 24.7 15.0 22.6#





#19  
Fluoranthene  
Concen: 0.074 ng/ul  
RT: 19.362 min Scan# 3648  
Delta R.T. -0.004 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

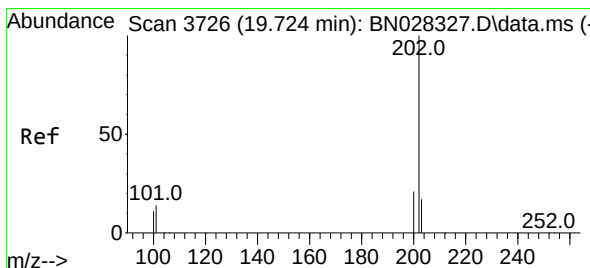
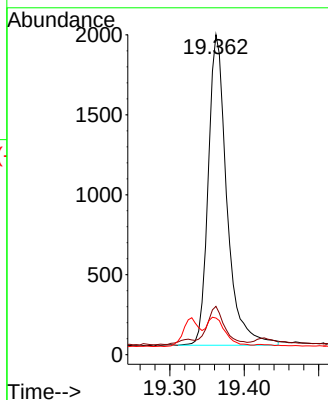
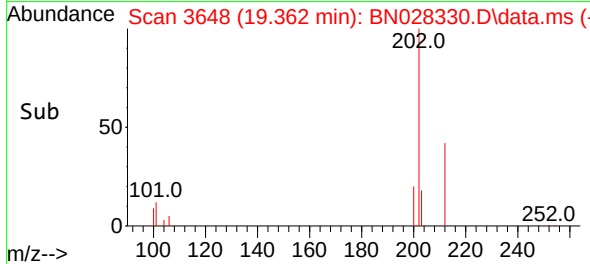
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion:202 Resp: 3370  
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100 11.4 7.4 11.0

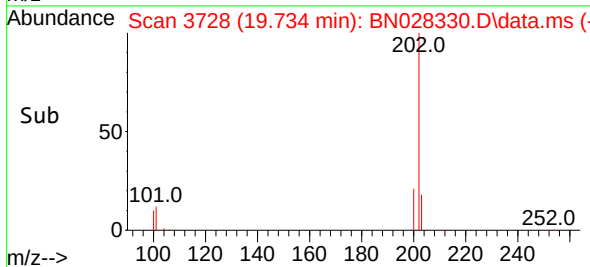
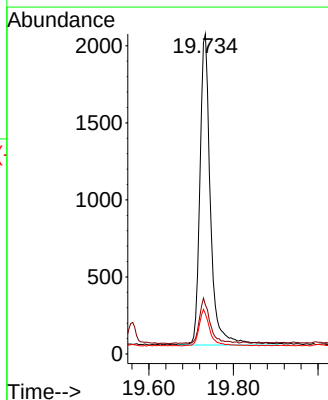
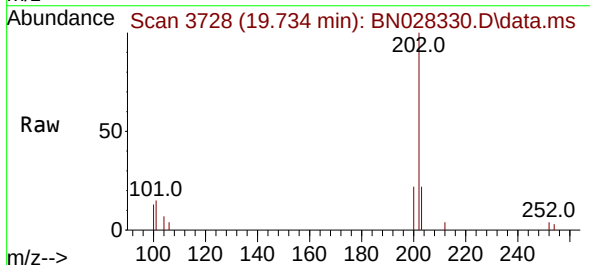
Manual Integrations  
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Supervised By :mohammad ahmed 10/21/2023

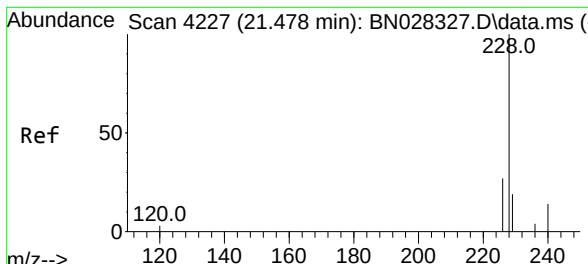


#20  
Pyrene  
Concen: 0.073 ng/ul  
RT: 19.734 min Scan# 3728  
Delta R.T. 0.000 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

Tgt Ion:202 Resp: 3477  
Ion Ratio Lower Upper  
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100 12.5 9.1 13.7

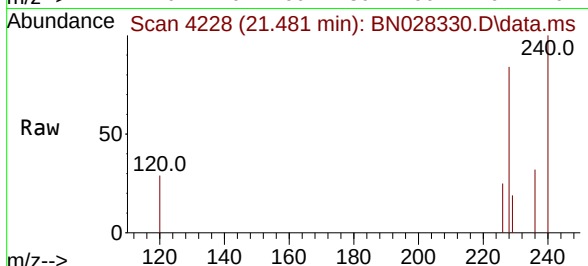






#21  
Benzo(a)anthracene  
Concen: 0.067 ng/u1  
RT: 21.481 min Scan# 4227  
Delta R.T. -0.003 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

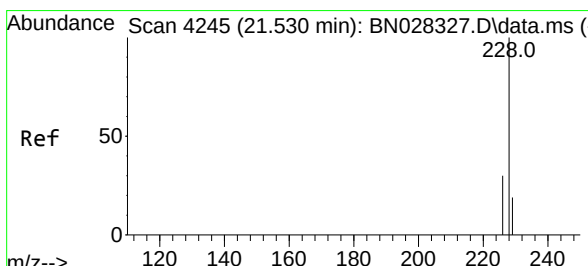
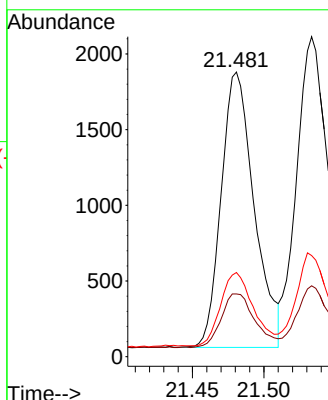
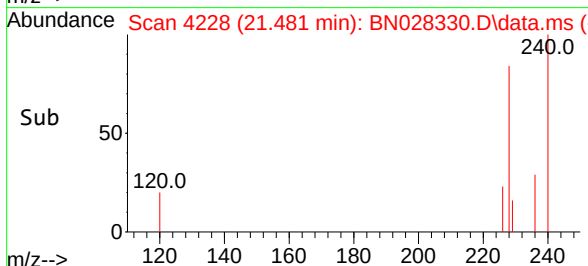
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



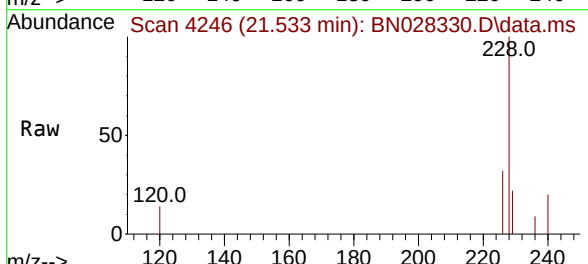
Tgt Ion:228 Resp: 292  
Ion Ratio Lower Upper  
228 100  
229 22.1 16.0 24.0  
226 29.6 21.5 32.3

Manual Integrations  
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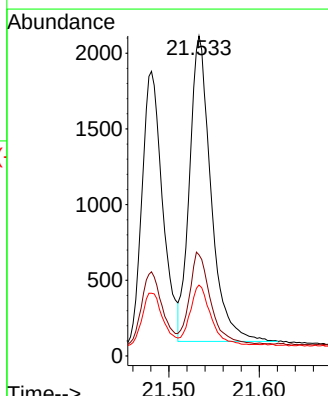
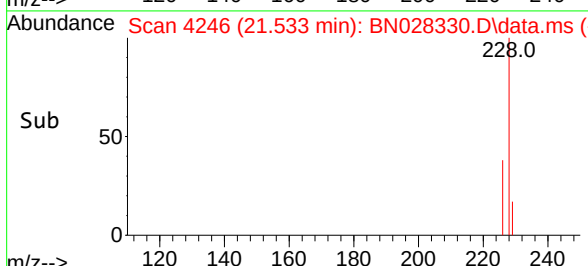
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023

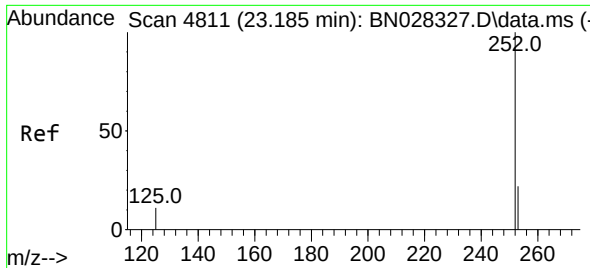


#22  
Chrysene  
Concen: 0.075 ng/u1  
RT: 21.533 min Scan# 4246  
Delta R.T. -0.003 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37



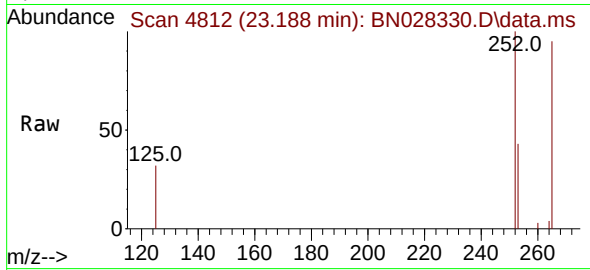
Tgt Ion:228 Resp: 3324  
Ion Ratio Lower Upper  
228 100  
226 31.6 23.8 35.8  
229 22.2 16.0 24.0





#24  
Benzo(b)fluoranthene  
Concen: 0.074 ng/ul  
RT: 23.188 min Scan# 4811  
Delta R.T. -0.006 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

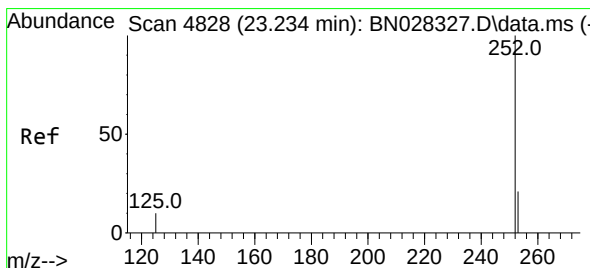
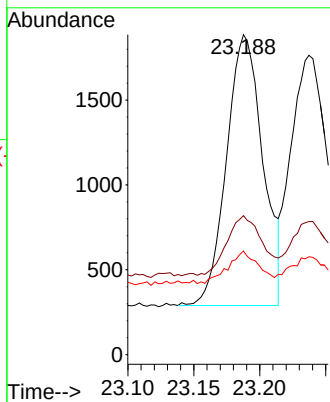
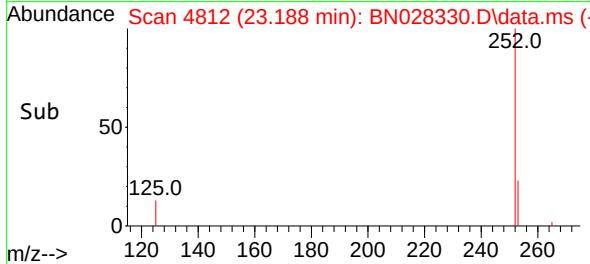
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



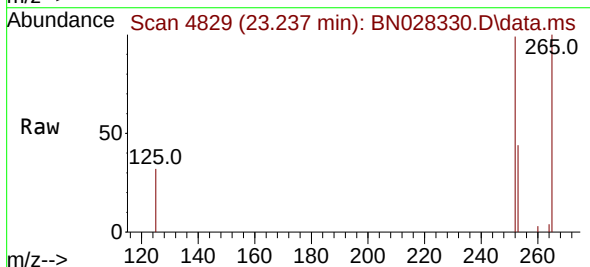
Tgt Ion:252 Resp: 3065  
Ion Ratio Lower Upper  
252 100  
253 43.4 0.0 54.0  
125 32.4 0.0 31.4

Manual Integrations  
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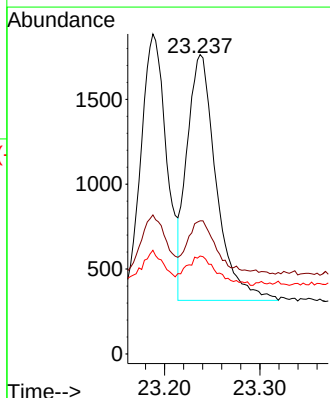
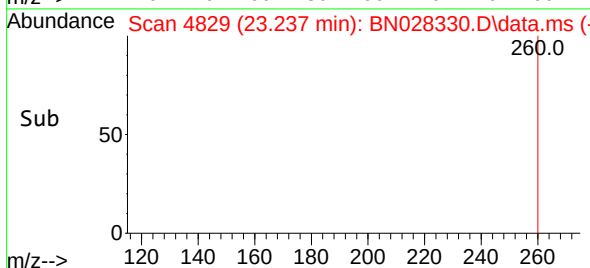
Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023

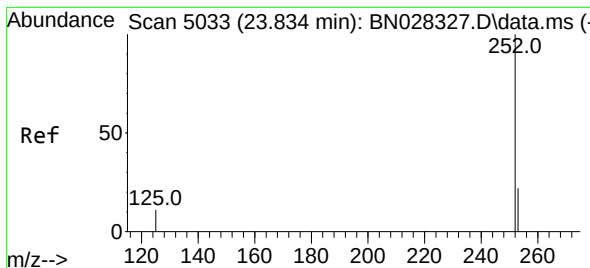


#25  
Benzo(k)fluoranthene  
Concen: 0.075 ng/ul  
RT: 23.237 min Scan# 4829  
Delta R.T. -0.003 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37



Tgt Ion:252 Resp: 3095  
Ion Ratio Lower Upper  
252 100  
253 44.4 21.8 32.8#  
125 32.7 12.8 19.2#





#26

Benzo(a)pyrene

Concen: 0.077 ng/ul

RT: 23.837 min Scan# 5033

Delta R.T. -0.006 min

Lab File: BN028330.D

Acq: 19 Oct 2023 15:37

Instrument :

BN028330.D

ClientSampleId :

MDL-WATER-QT4-2023-07

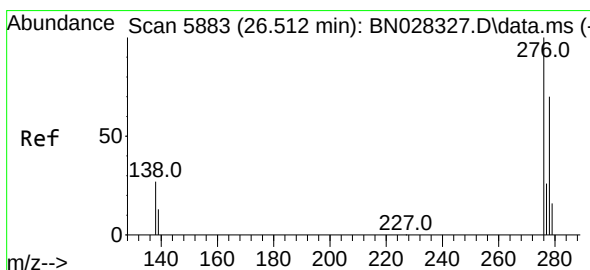
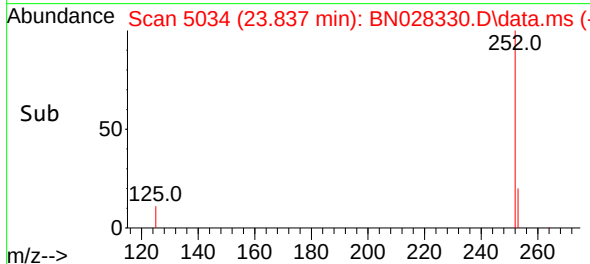
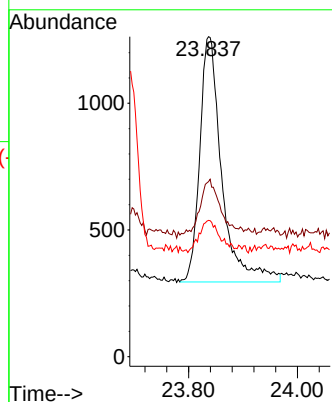
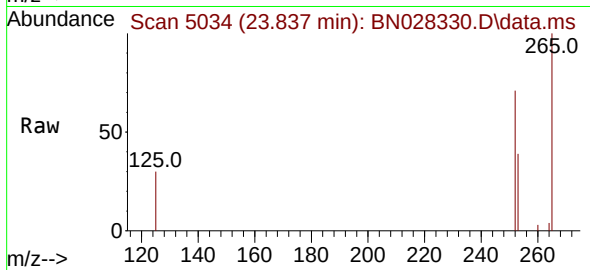
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 271  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 54.7  | 23.4  | 35.2 |
| 125       | 42.6  | 15.3  | 22.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/21/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.073 ng/ul

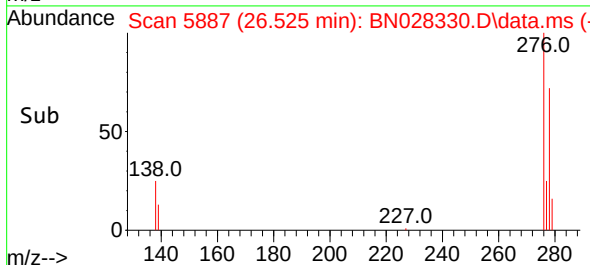
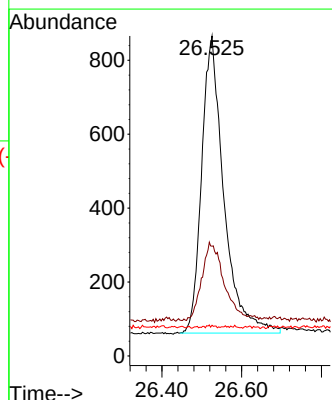
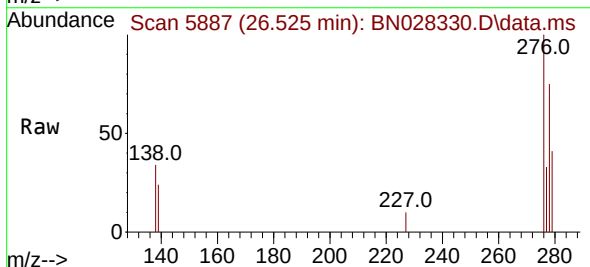
RT: 26.525 min Scan# 5887

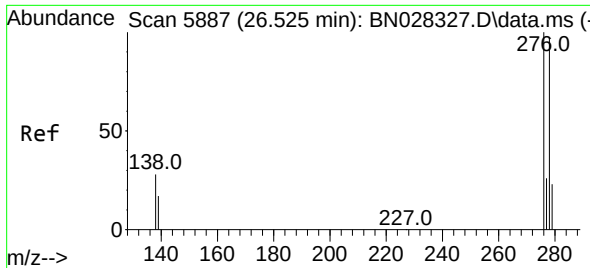
Delta R.T. 0.000 min

Lab File: BN028330.D

Acq: 19 Oct 2023 15:37

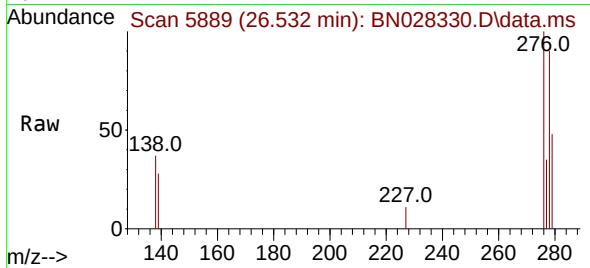
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 3104 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 26.9  | 21.6  | 32.4 |
| 227       | 0.1   | 0.2   | 0.2  |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.075 ng/ul  
RT: 26.532 min Scan# 5889  
Delta R.T. -0.013 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37

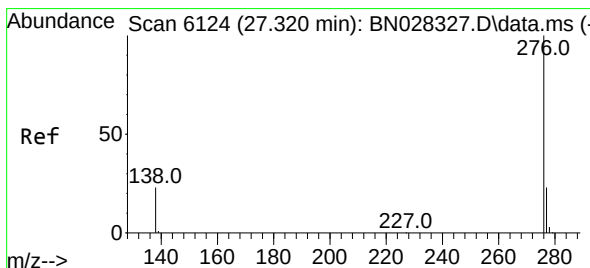
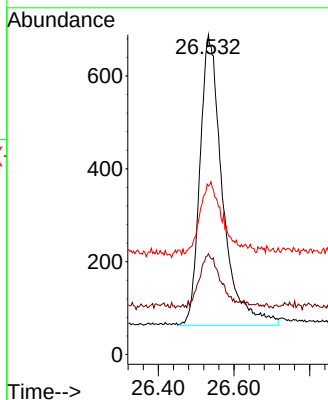
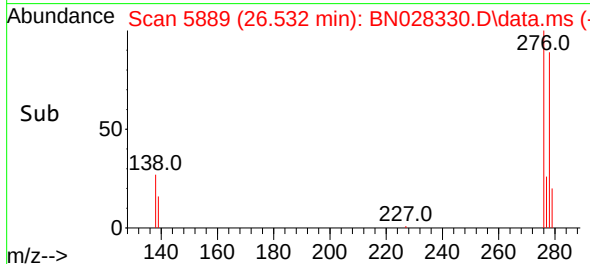
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-WATER-QT4-2023-07



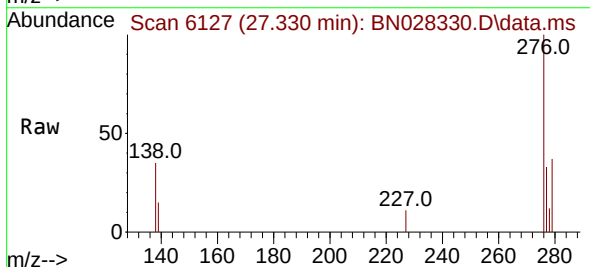
Tgt Ion:278 Resp: 258  
Ion Ratio Lower Upper  
278 100  
139 31.5 15.9 23.9#  
279 52.7 22.8 34.2#

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/20/2023  
Supervised By :mohammad ahmed 10/21/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.078 ng/ul  
RT: 27.330 min Scan# 6127  
Delta R.T. 0.000 min  
Lab File: BN028330.D  
Acq: 19 Oct 2023 15:37



Tgt Ion:276 Resp: 2733  
Ion Ratio Lower Upper  
276 100  
138 35.1 19.8 29.6#  
277 32.9 20.6 31.0#

