

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051023\  
 Data File : BN025387.D  
 Acq On : 10 May 2023 19:07  
 Operator : CG/JU  
 Sample : 02479-22MSD  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW975MSD

Quant Time: May 11 02:09:18 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 11 02:07:13 2023  
 Response via : Initial Calibration

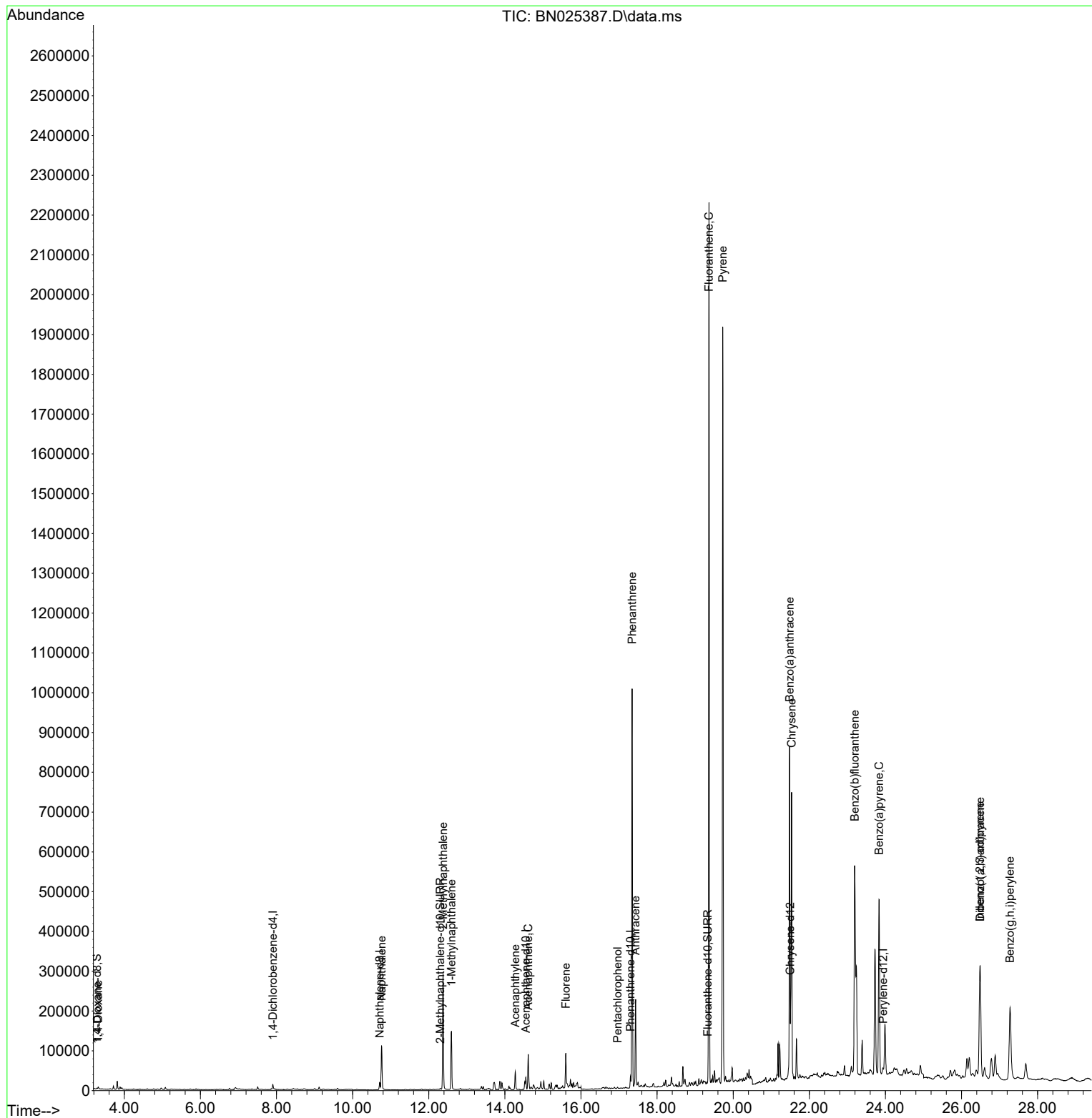
| Compound                    | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|--------|---------|----------|
| -----                       |        |      |          |        |         |          |
| Internal Standards          |        |      |          |        |         |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.904  | 152  | 7788     | 0.400  | ng/ul   | 0.00     |
| 4) Naphthalene-d8           | 10.710 | 136  | 24526    | 0.400  | ng/ul # | 0.00     |
| 9) Acenaphthene-d10         | 14.552 | 164  | 15698    | 0.400  | ng/ul   | 0.00     |
| 13) Phenanthrene-d10        | 17.301 | 188  | 32694    | 0.400  | ng/ul # | 0.00     |
| 17) Chrysene-d12            | 21.500 | 240  | 20500    | 0.400  | ng/ul # | 0.00     |
| 23) Perylene-d12            | 23.938 | 264  | 22171    | 0.400  | ng/ul # | 0.00     |
| System Monitoring Compounds |        |      |          |        |         |          |
| 3) 1,4-Dioxane-d8           | 3.280  | 96   | 1228     | 0.152  | ng/ul   | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.299 | 152  | 3999     | 0.127  | ng/ul   | 0.00     |
| 18) Fluoranthene-d10        | 19.331 | 212  | 9376     | 0.173  | ng/ul   | 0.00     |
| Target Compounds            |        |      |          |        |         |          |
|                             |        |      |          |        | Qvalue  |          |
| 2) 1,4-Dioxane              | 3.314  | 88   | 3050     | 0.351  | ng/ul#  | 45       |
| 5) Naphthalene              | 10.759 | 128  | 160565   | 2.555  | ng/ul   | 100      |
| 7) 2-Methylnaphthalene      | 12.376 | 142  | 204747   | 5.319  | ng/ul   | 99       |
| 8) 1-Methylnaphthalene      | 12.596 | 142  | 101960   | 2.485  | ng/ul   | 100      |
| 10) Acenaphthylene          | 14.274 | 152  | 55193    | 0.944  | ng/ul#  | 94       |
| 11) Acenaphthene            | 14.612 | 153  | 53090    | 1.077  | ng/ul   | 99       |
| 12) Fluorene                | 15.602 | 166  | 56602    | 1.027  | ng/ul   | 98       |
| 14) Pentachlorophenol       | 16.963 | 266  | 1632     | 0.254  | ng/ul   | 97       |
| 15) Phenanthrene            | 17.343 | 178  | 1025773  | 11.115 | ng/ul   | 100      |
| 16) Anthracene              | 17.436 | 178  | 230213   | 3.049  | ng/ul   | 99       |
| 19) Fluoranthene            | 19.363 | 202  | 1820294  | 24.555 | ng/ul   | 99       |
| 20) Pyrene                  | 19.726 | 202  | 1575509  | 20.685 | ng/ul   | 99       |
| 21) Benzo(a)anthracene      | 21.482 | 228  | 699184   | 11.318 | ng/ul   | 97       |
| 22) Chrysene                | 21.535 | 228  | 698754   | 10.369 | ng/ul   | 97       |
| 24) Benzo(b)fluoranthene    | 23.192 | 252  | 1195414  | 13.290 | ng/ul   | 98       |
| 26) Benzo(a)pyrene          | 23.832 | 252  | 624521   | 8.391  | ng/ul   | 95       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.484 | 276  | 464039   | 5.412  | ng/ul#  | 94       |
| 28) Dibenzo(a,h)anthracene  | 26.491 | 278  | 127528   | 1.904  | ng/ul#  | 81       |
| 29) Benzo(g,h,i)perylene    | 27.275 | 276  | 401038   | 5.500  | ng/ul   | 97       |
| -----                       |        |      |          |        |         |          |

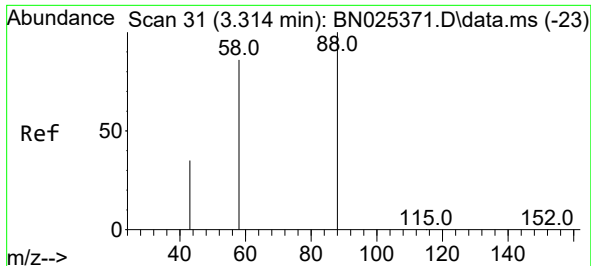
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051023\  
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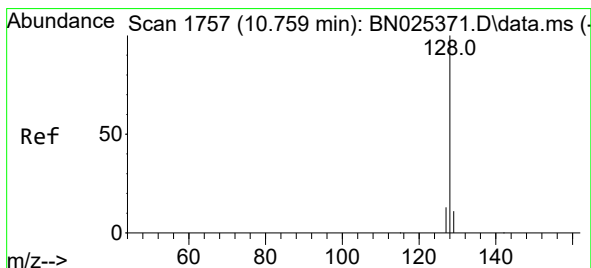
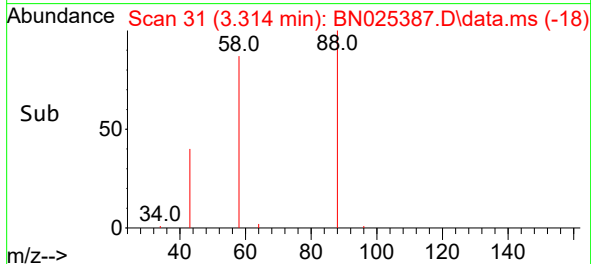
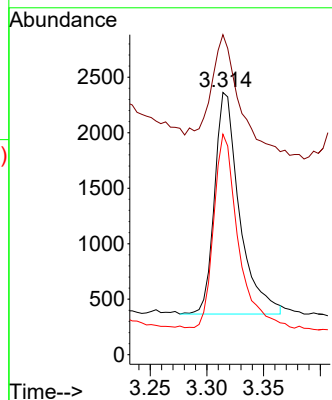
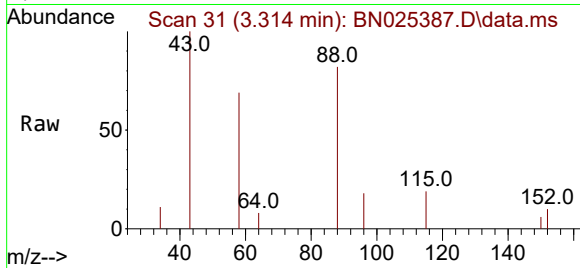




#2  
1,4-Dioxane  
Concen: 0.351 ng/ul  
RT: 3.314 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

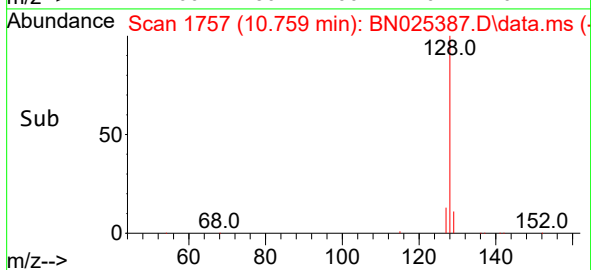
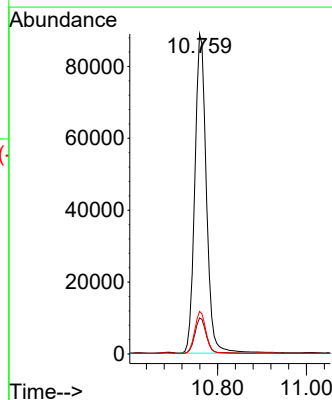
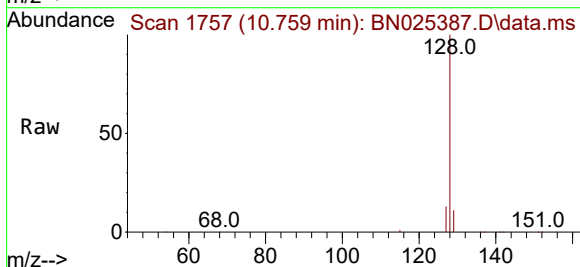
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MSD

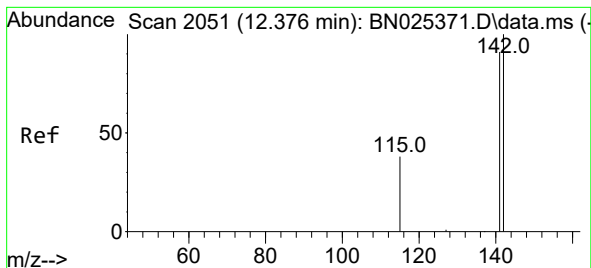
Tgt Ion: 88 Resp: 3050  
Ion Ratio Lower Upper  
88 100  
43 122.0 37.0 55.4#  
58 84.1 56.9 85.3



#5  
Naphthalene  
Concen: 2.555 ng/ul  
RT: 10.759 min Scan# 1757  
Delta R.T. 0.000 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion: 128 Resp: 160565  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.6  
127 13.3 10.7 16.1

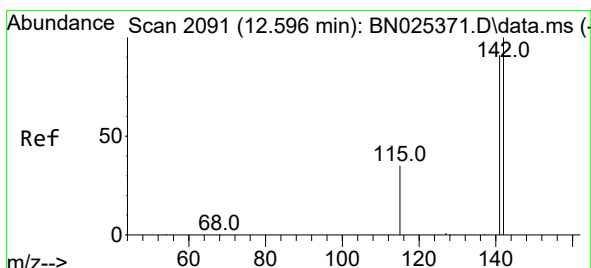
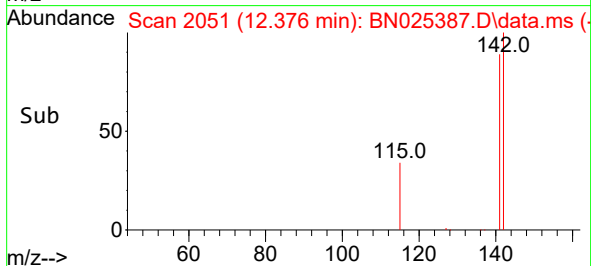
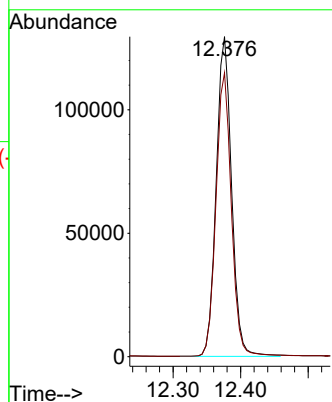
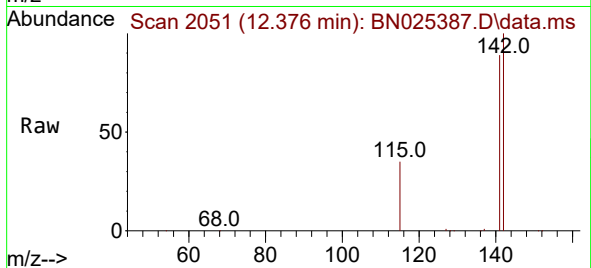




#7  
2-Methylnaphthalene  
Concen: 5.319 ng/ul  
RT: 12.376 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

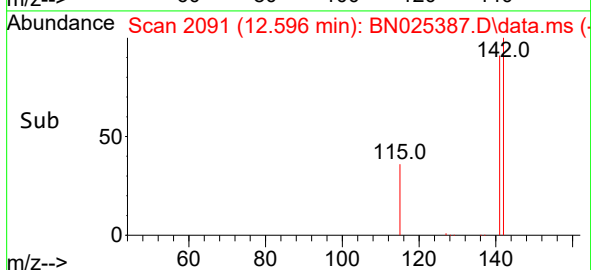
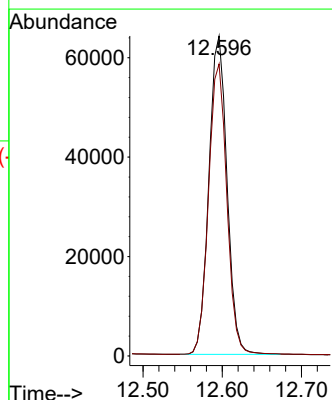
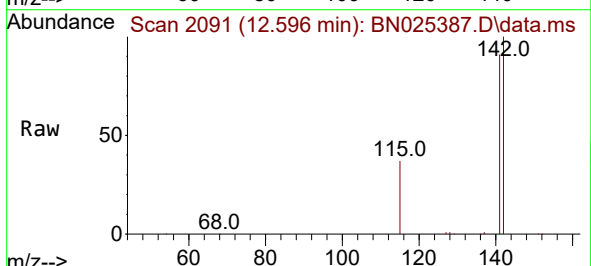
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MSD

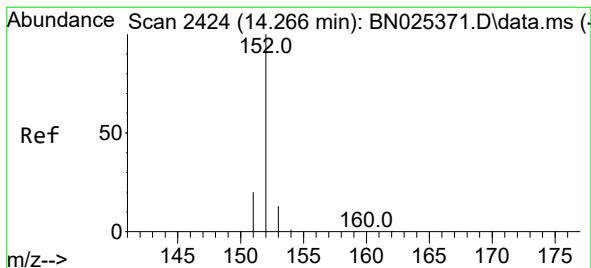
Tgt Ion:142 Resp: 204747  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.4 107.0



#8  
1-Methylnaphthalene  
Concen: 2.485 ng/ul  
RT: 12.596 min Scan# 2091  
Delta R.T. 0.006 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion:142 Resp: 101960  
Ion Ratio Lower Upper  
142 100  
141 91.7 73.8 110.6





#10

Acenaphthylene

Concen: 0.944 ng/ul

RT: 14.274 min Scan# 2426

Delta R.T. 0.004 min

Lab File: BN025387.D

Acq: 10 May 2023 19:07

Instrument :

BNA\_N

ClientSampleId :

EW975MSD

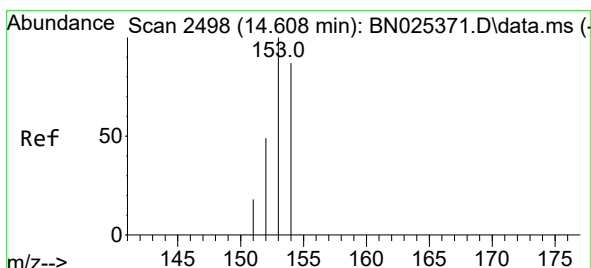
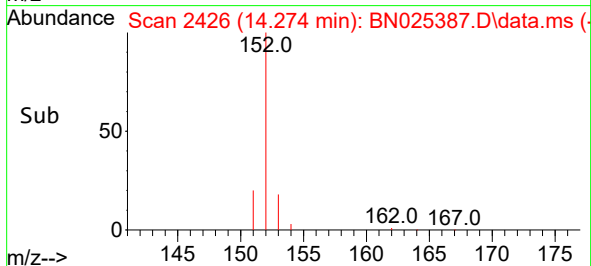
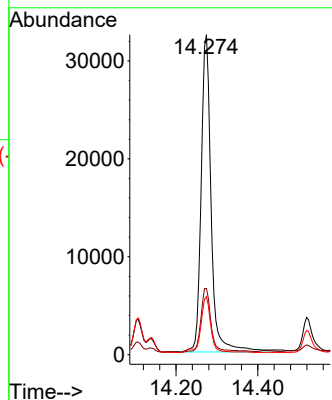
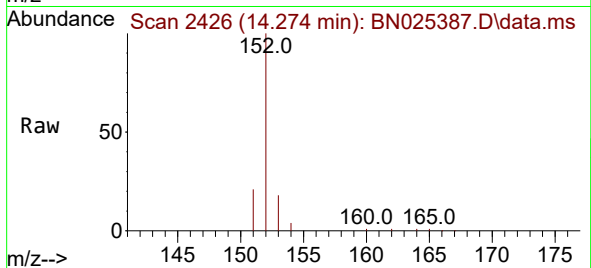
Tgt Ion:152 Resp: 55193

Ion Ratio Lower Upper

152 100

151 20.7 16.0 24.0

153 18.1 10.8 16.2#



#11

Acenaphthene

Concen: 1.077 ng/ul

RT: 14.612 min Scan# 2499

Delta R.T. 0.004 min

Lab File: BN025387.D

Acq: 10 May 2023 19:07

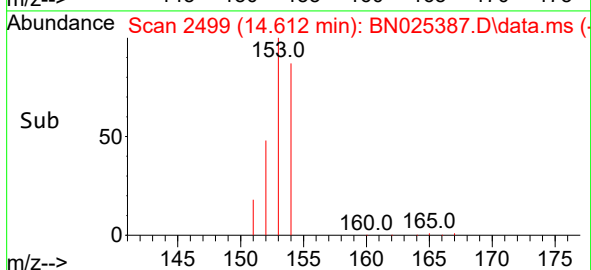
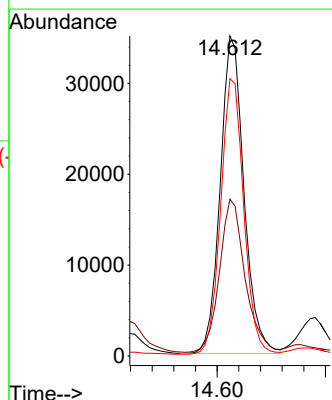
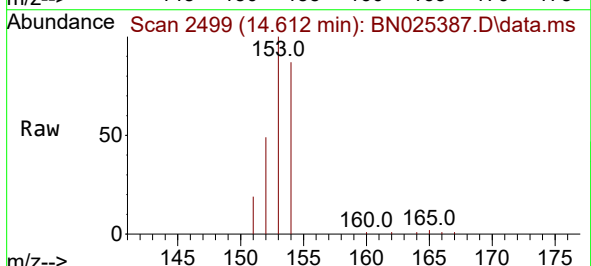
Tgt Ion:153 Resp: 53090

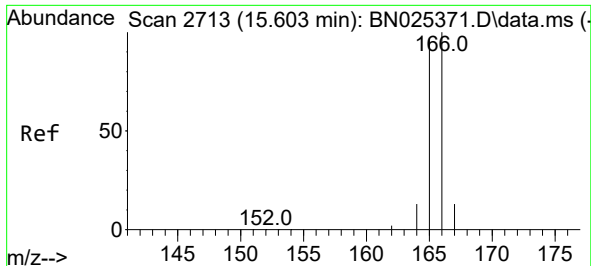
Ion Ratio Lower Upper

153 100

152 49.0 40.2 60.4

154 86.7 69.4 104.2

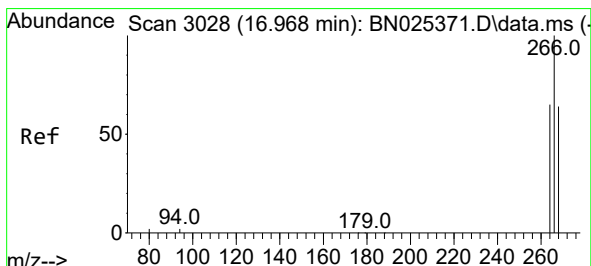
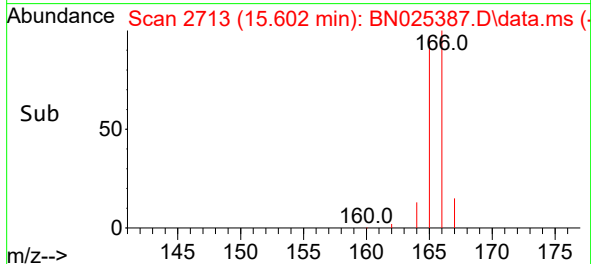
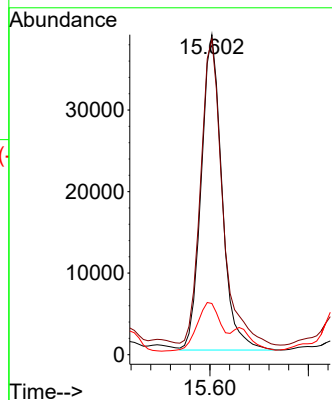
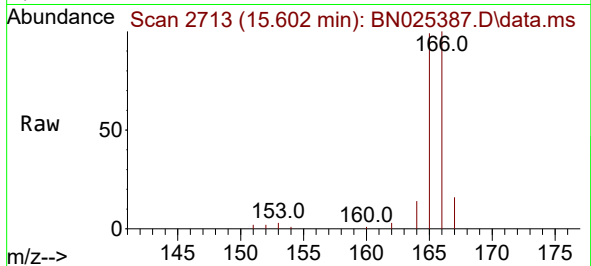




#12  
Fluorene  
Concen: 1.027 ng/ul  
RT: 15.602 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

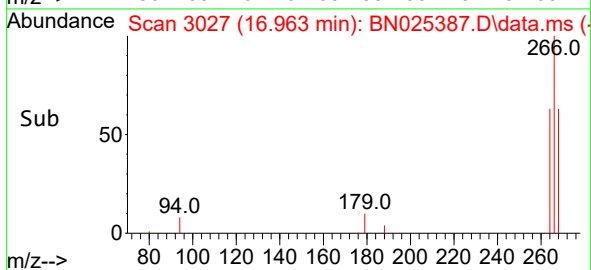
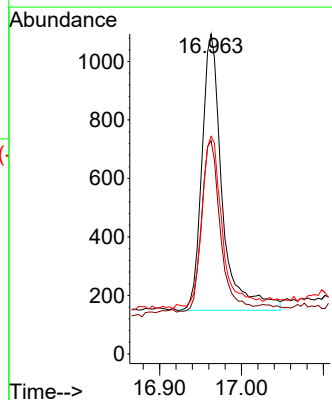
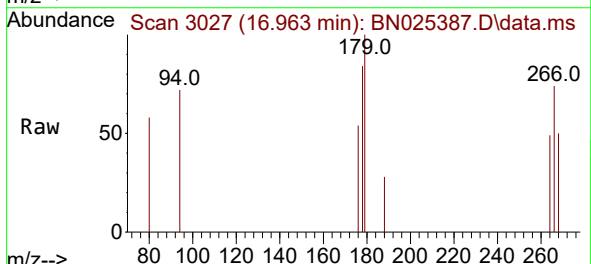
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MSD

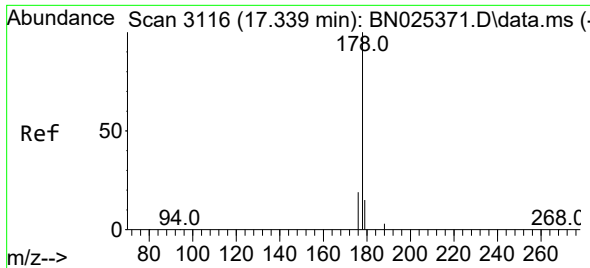
Tgt Ion:166 Resp: 56602  
Ion Ratio Lower Upper  
166 100  
165 98.6 78.1 117.1  
167 16.0 11.0 16.6



#14  
Pentachlorophenol  
Concen: 0.254 ng/ul  
RT: 16.963 min Scan# 3027  
Delta R.T. 0.003 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion:266 Resp: 1632  
Ion Ratio Lower Upper  
266 100  
264 60.2 49.6 74.4  
268 67.0 51.3 76.9

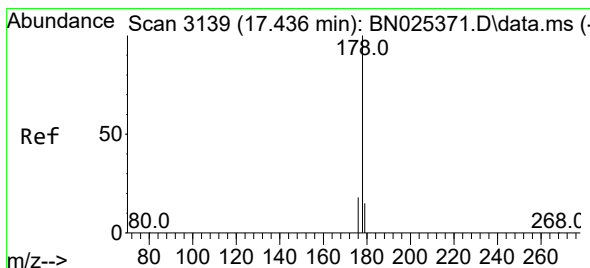
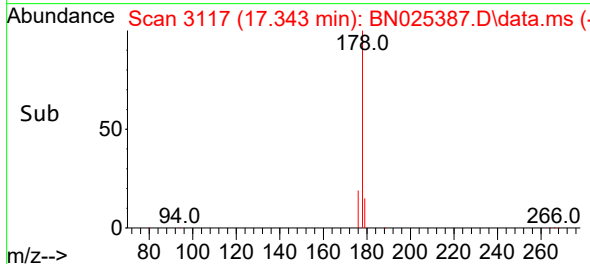
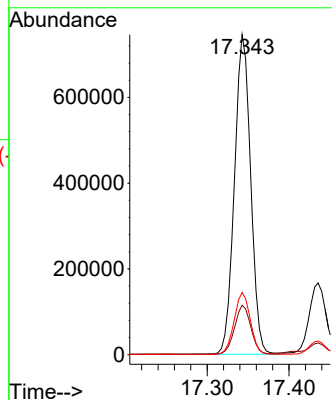
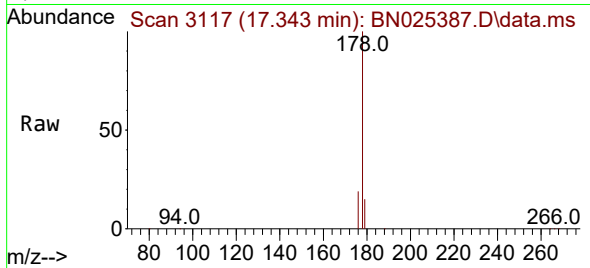




#15  
Phenanthrene  
Concen: 11.115 ng/ul  
RT: 17.343 min Scan# 3116  
Delta R.T. 0.003 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

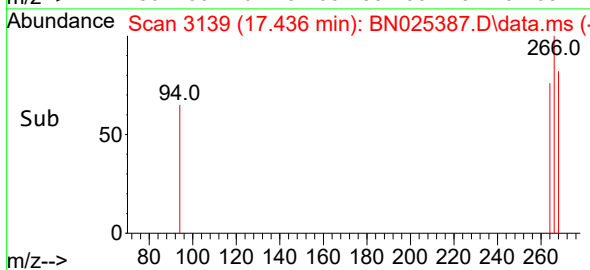
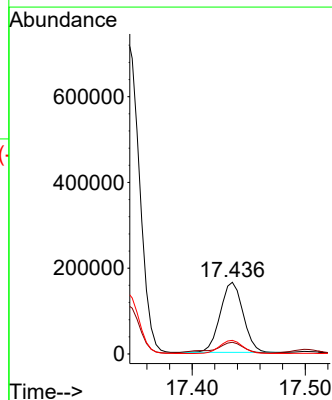
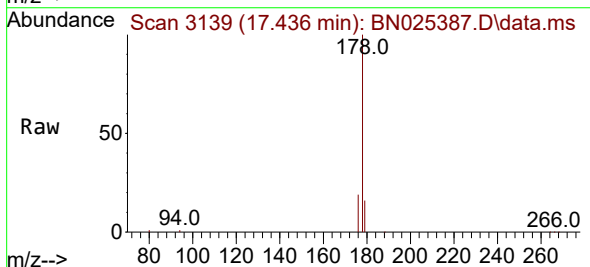
Instrument :  
BNA\_N  
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EW975MSD

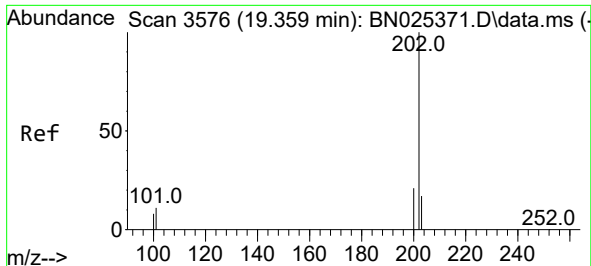
Tgt Ion:178 Resp: 1025773  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.5 18.7  
176 19.4 15.6 23.4



#16  
Anthracene  
Concen: 3.049 ng/ul  
RT: 17.436 min Scan# 3139  
Delta R.T. 0.003 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion:178 Resp: 230213  
Ion Ratio Lower Upper  
178 100  
179 16.2 12.7 19.1  
176 18.9 15.3 22.9

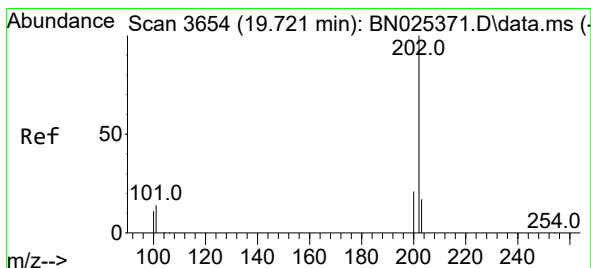
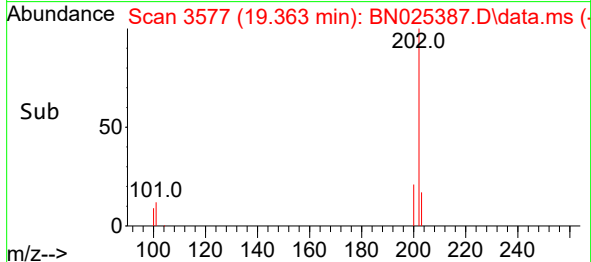
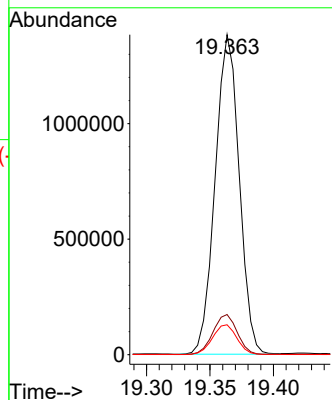
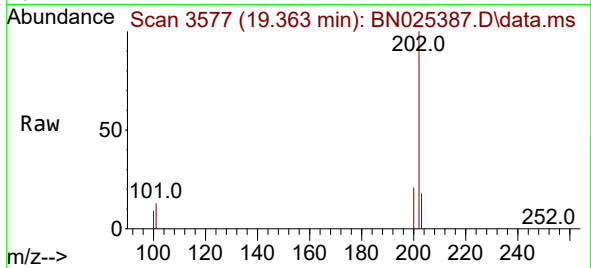




#19  
Fluoranthene  
Concen: 24.555 ng/ul  
RT: 19.363 min Scan# 3577  
Delta R.T. 0.004 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

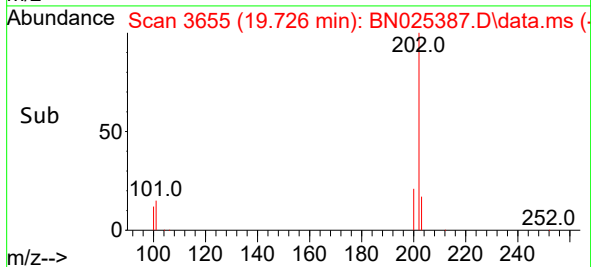
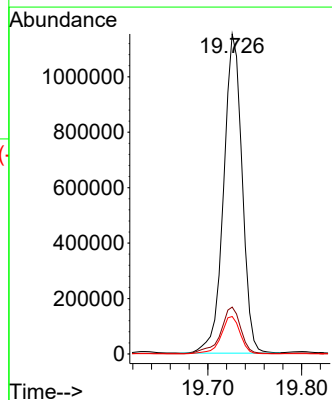
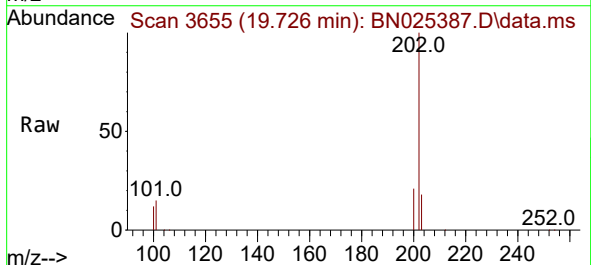
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MSD

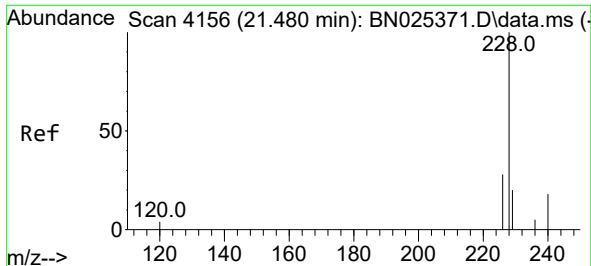
Tgt Ion:202 Resp: 1820294  
Ion Ratio Lower Upper  
202 100  
101 12.5 9.7 14.5  
100 9.4 7.3 10.9



#20  
Pyrene  
Concen: 20.685 ng/ul  
RT: 19.726 min Scan# 3655  
Delta R.T. 0.004 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion:202 Resp: 1575509  
Ion Ratio Lower Upper  
202 100  
101 14.7 11.3 16.9  
100 11.7 9.2 13.8

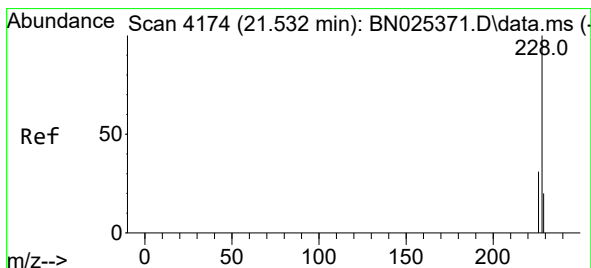
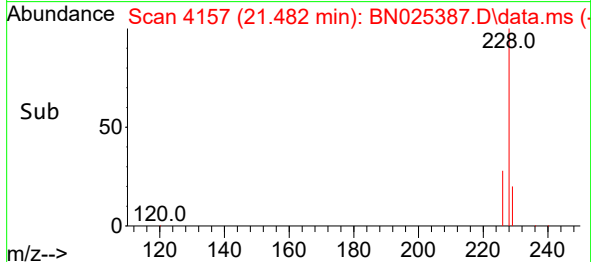
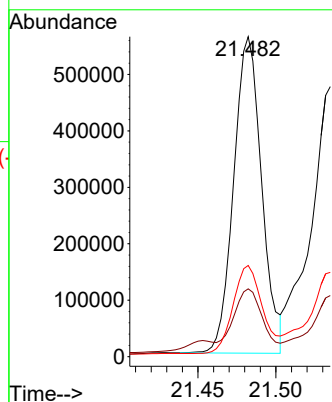
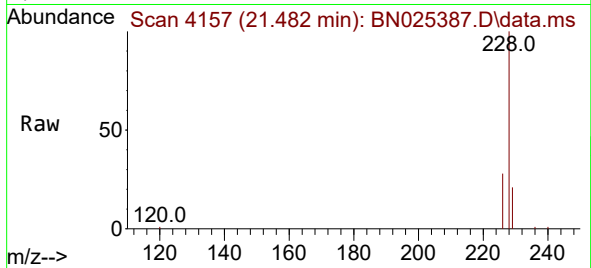




#21  
Benzo(a)anthracene  
Concen: 11.318 ng/ul  
RT: 21.482 min Scan# 4156  
Delta R.T. 0.005 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

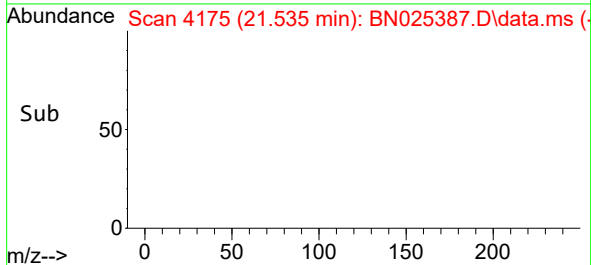
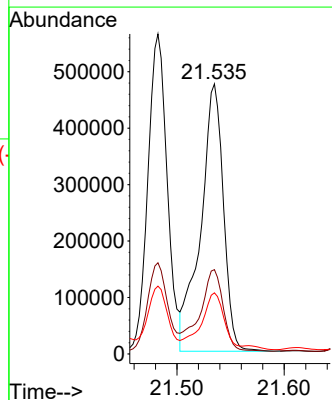
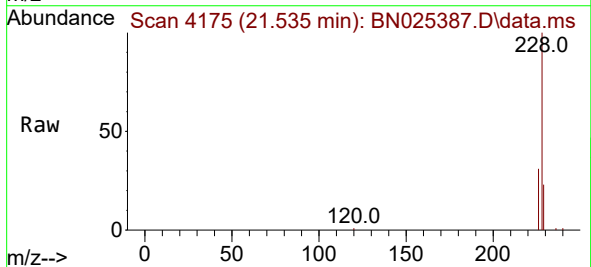
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MSD

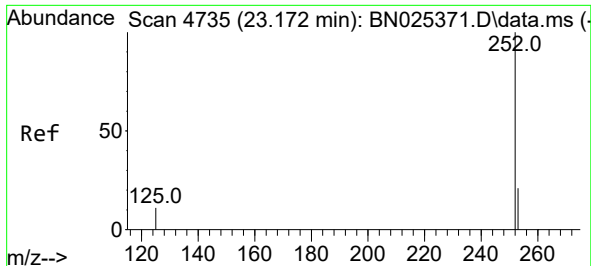
Tgt Ion:228 Resp: 699184  
Ion Ratio Lower Upper  
228 100  
229 21.2 15.6 23.4  
226 28.5 22.1 33.1



#22  
Chrysene  
Concen: 10.369 ng/ul  
RT: 21.535 min Scan# 4175  
Delta R.T. 0.002 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion:228 Resp: 698754  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.5 36.7  
229 22.6 15.8 23.6

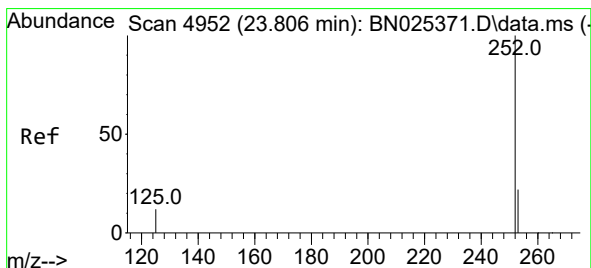
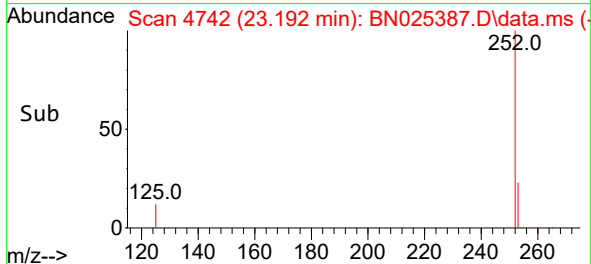
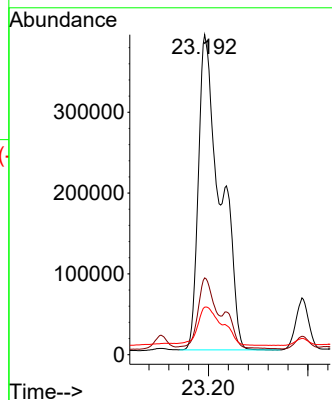
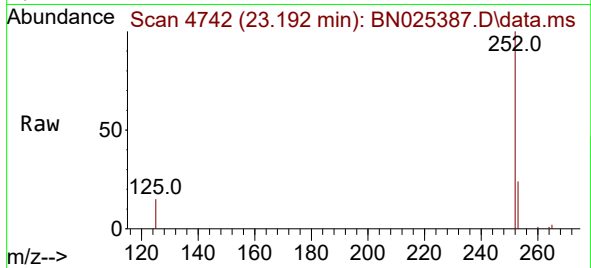




#24  
Benzo(b)fluoranthene  
Concen: 13.290 ng/ul  
RT: 23.192 min Scan# 41  
Delta R.T. 0.008 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

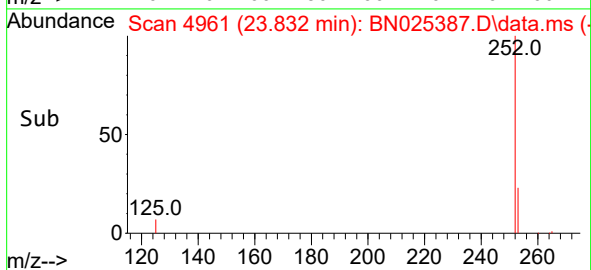
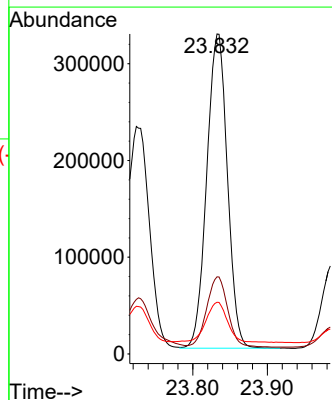
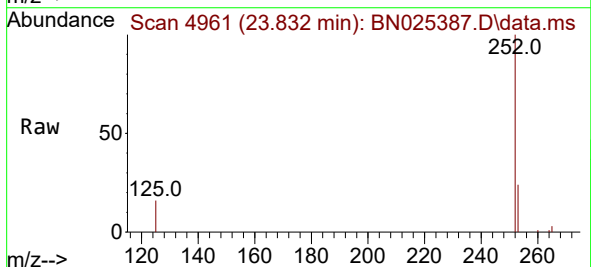
Instrument :  
BNA\_N  
ClientSampleId :  
EW975MSD

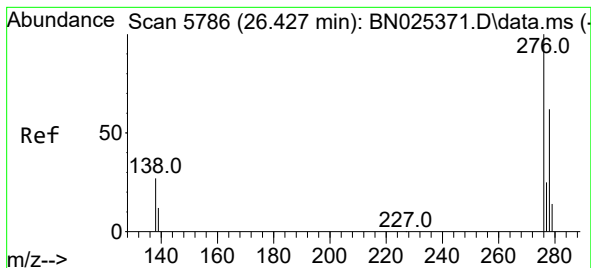
Tgt Ion:252 Resp: 1195414  
Ion Ratio Lower Upper  
252 100  
253 24.0 0.0 50.2  
125 14.9 0.0 30.4



#26  
Benzo(a)pyrene  
Concen: 8.391 ng/ul  
RT: 23.832 min Scan# 4961  
Delta R.T. 0.014 min  
Lab File: BN025387.D  
Acq: 10 May 2023 19:07

Tgt Ion:252 Resp: 624521  
Ion Ratio Lower Upper  
252 100  
253 24.1 21.4 32.2  
125 16.2 14.6 22.0





#27

Indeno(1,2,3-cd)pyrene

Concen: 5.412 ng/ul

RT: 26.484 min Scan# 5803

Delta R.T. 0.026 min

Lab File: BN025387.D

Acq: 10 May 2023 19:07

Instrument :

BNA\_N

ClientSampleId :

EW975MSD

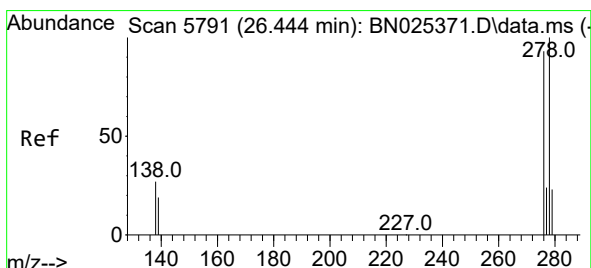
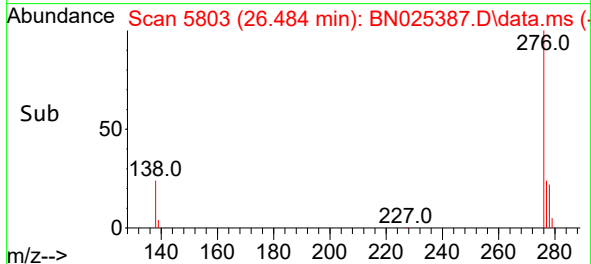
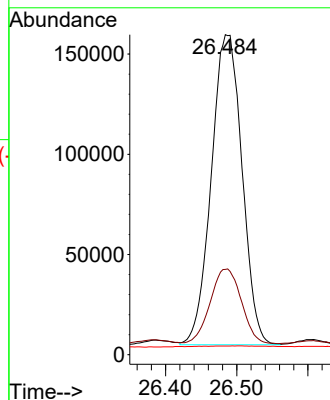
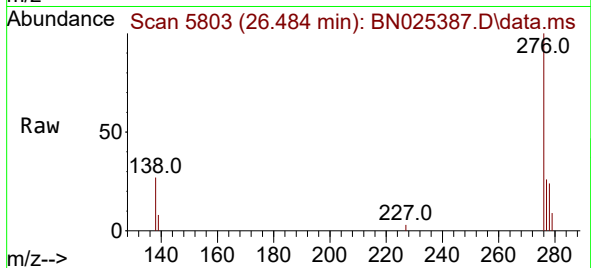
Tgt Ion:276 Resp: 464039

Ion Ratio Lower Upper

276 100

138 24.3 21.9 32.9

227 0.4 0.1 0.1#



#28

Dibenzo(a,h)anthracene

Concen: 1.904 ng/ul

RT: 26.491 min Scan# 5805

Delta R.T. 0.016 min

Lab File: BN025387.D

Acq: 10 May 2023 19:07

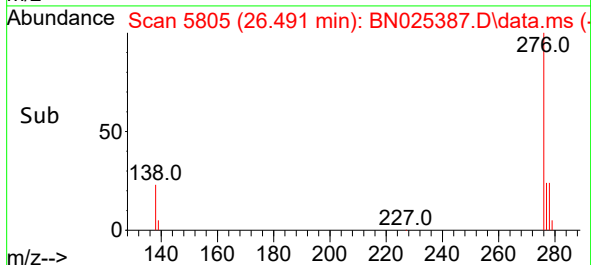
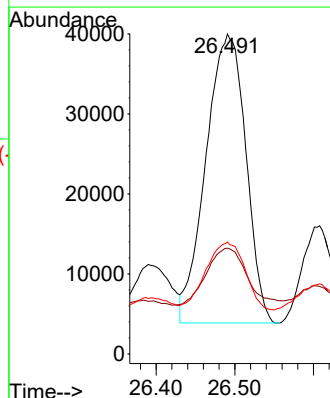
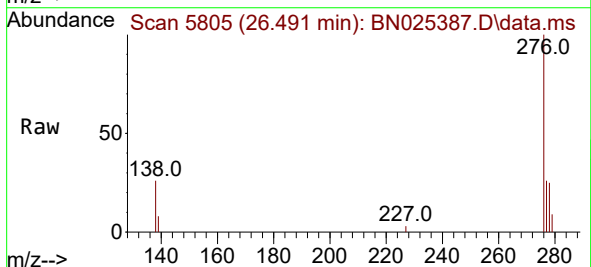
Tgt Ion:278 Resp: 127528

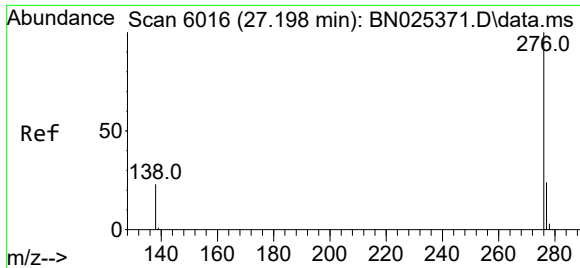
Ion Ratio Lower Upper

278 100

139 33.0 17.0 25.6#

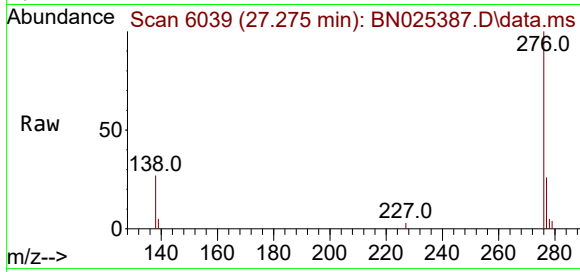
279 35.0 21.8 32.8#





#29  
 Benzo(g,h,i)perylene  
 Concen: 5.500 ng/ul  
 RT: 27.275 min Scan# 6016  
 Delta R.T. 0.036 min  
 Lab File: BN025387.D  
 Acq: 10 May 2023 19:07

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW975MSD



Tgt Ion:276 Resp: 401038  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 27.0  | 20.3  | 30.5  |
| 277 | 26.3  | 19.8  | 29.6  |

