

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110923\  
 Data File : BN028546.D  
 Acq On : 10 Nov 2023 08:21  
 Operator : MA/JU  
 Sample : 05044-02MS  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHEE3MS

Quant Time: Nov 10 23:25:44 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 09 16:30:32 2023  
 Response via : Initial Calibration

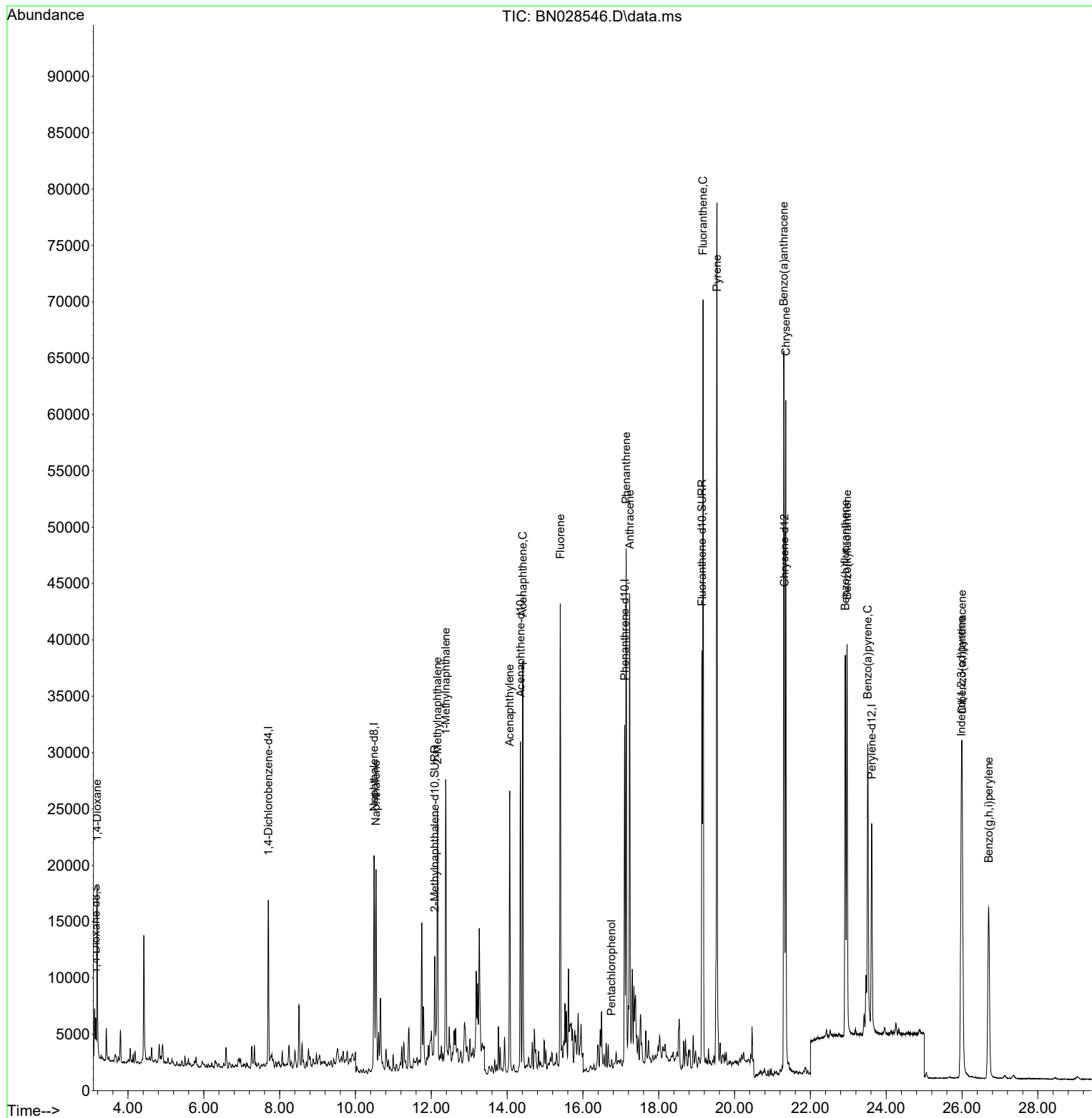
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.703  | 152  | 7426     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.489 | 136  | 24656    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.352 | 164  | 15550    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.102 | 188  | 34714    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.315 | 240  | 27979    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.616 | 264  | 25789    | 0.400 | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.151  | 96   | 2177     | 0.265 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.090 | 152  | 11874    | 0.320 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.140 | 212  | 39357    | 0.437 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.184  | 88   | 9441     | 1.041 | ng/ul# | 84       |
| 5) Naphthalene              | 10.539 | 128  | 23523    | 0.340 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.161 | 142  | 15592    | 0.343 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.381 | 142  | 16483    | 0.357 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.070 | 152  | 26846    | 0.346 | ng/ul  | 97       |
| 11) Acenaphthene            | 14.413 | 153  | 20475    | 0.359 | ng/ul  | 99       |
| 12) Fluorene                | 15.403 | 166  | 24821    | 0.374 | ng/ul  | 99       |
| 14) Pentachlorophenol       | 16.751 | 266  | 230      | 0.028 | ng/ul  | 97       |
| 15) Phenanthrene            | 17.140 | 178  | 48127    | 0.451 | ng/ul  | 98       |
| 16) Anthracene              | 17.233 | 178  | 43171    | 0.441 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.168 | 202  | 55415    | 0.466 | ng/ul  | 99       |
| 20) Pyrene                  | 19.535 | 202  | 65219    | 0.529 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.298 | 228  | 50010    | 0.452 | ng/ul  | 98       |
| 22) Chrysene                | 21.350 | 228  | 49896    | 0.461 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.920 | 252  | 43706    | 0.452 | ng/ul  | 100      |
| 25) Benzo(k)fluoranthene    | 22.967 | 252  | 44940    | 0.443 | ng/ul  | 100      |
| 26) Benzo(a)pyrene          | 23.513 | 252  | 38934    | 0.426 | ng/ul  | 99       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.980 | 276  | 41199    | 0.406 | ng/ul# | 99       |
| 28) Dibenzo(a,h)anthracene  | 26.000 | 278  | 33520    | 0.414 | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 26.701 | 276  | 33188    | 0.399 | ng/ul  | 99       |

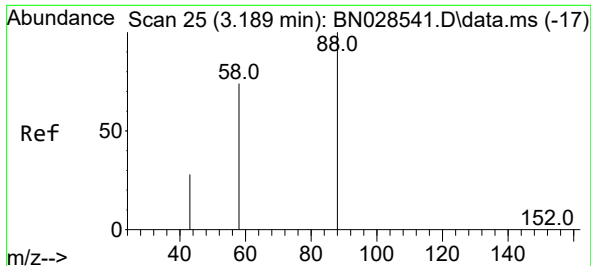
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110923\  
Data File : BN028546.D  
Acq On : 10 Nov 2023 08:21  
Operator : MA/JU  
Sample : 05044-02MS  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

Quant Time: Nov 10 23:25:44 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 09 16:30:32 2023  
Response via : Initial Calibration

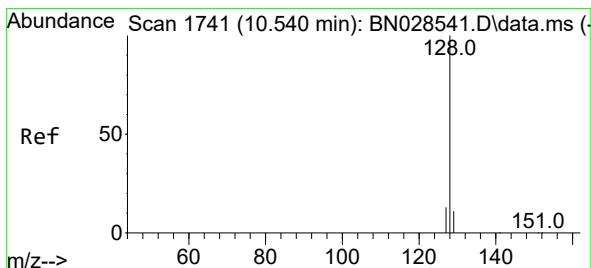
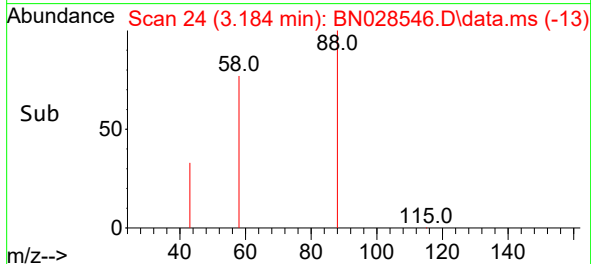
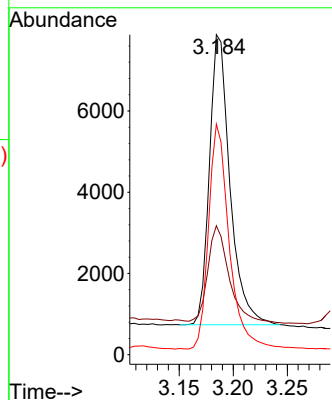
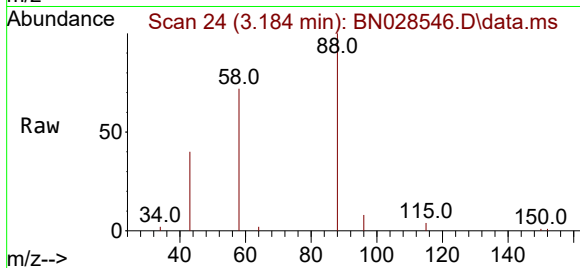




#2  
 1,4-Dioxane  
 Concen: 1.041 ng/ul  
 RT: 3.184 min Scan# 24  
 Delta R.T. -0.004 min  
 Lab File: BN028546.D  
 Acq: 10 Nov 2023 08:21

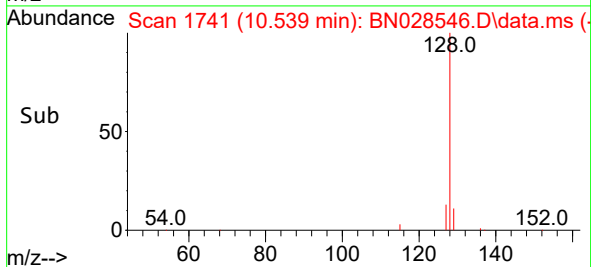
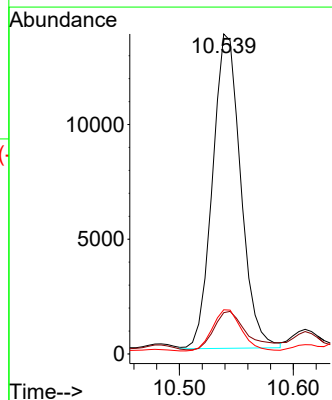
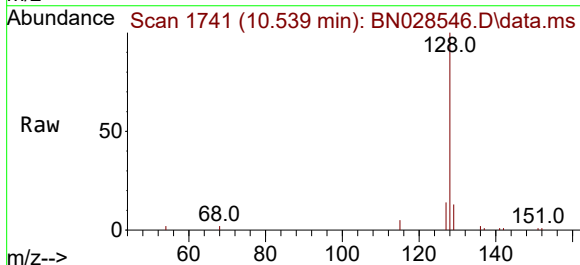
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHEE3MS

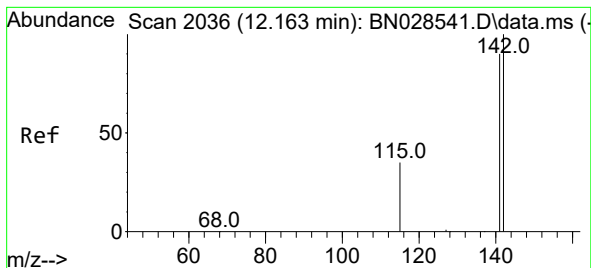
Tgt Ion: 88 Resp: 9441  
 Ion Ratio Lower Upper  
 88 100  
 43 40.3 32.9 49.3  
 58 72.1 41.8 62.8#



#5  
 Naphthalene  
 Concen: 0.340 ng/ul  
 RT: 10.539 min Scan# 1741  
 Delta R.T. -0.006 min  
 Lab File: BN028546.D  
 Acq: 10 Nov 2023 08:21

Tgt Ion: 128 Resp: 23523  
 Ion Ratio Lower Upper  
 128 100  
 129 12.9 9.2 13.8  
 127 13.8 10.7 16.1

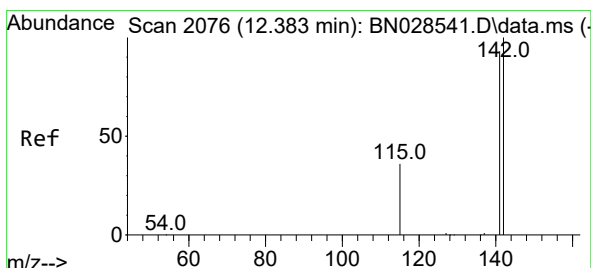
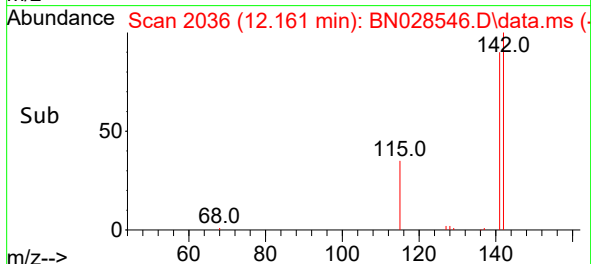
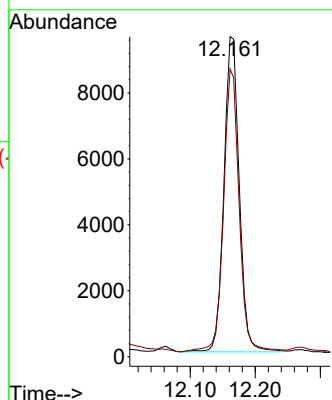
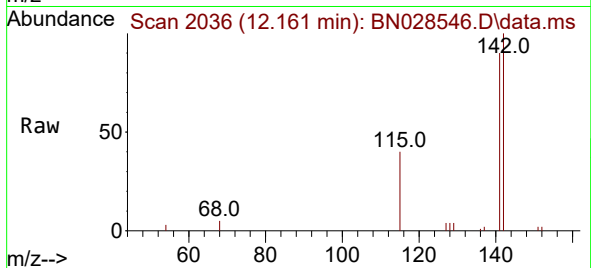




#7  
2-Methylnaphthalene  
Concen: 0.343 ng/ul  
RT: 12.161 min Scan# 2036  
Delta R.T. -0.006 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

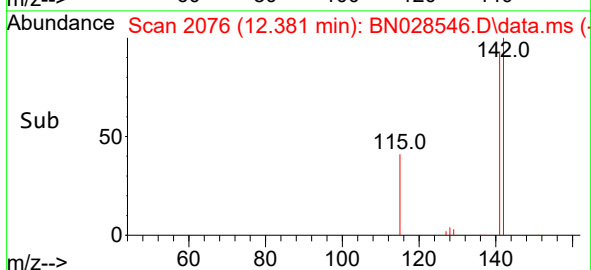
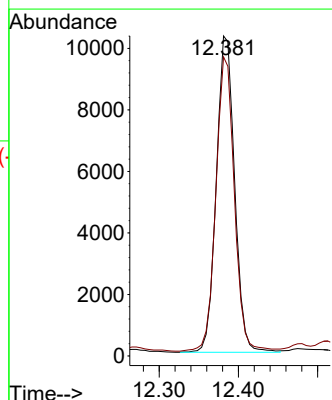
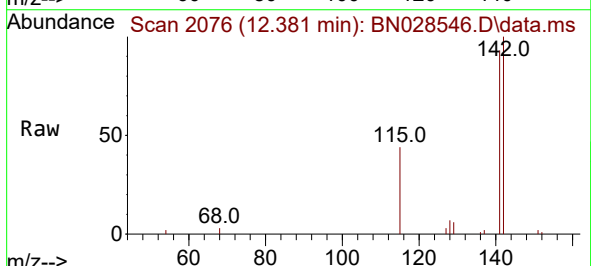
Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

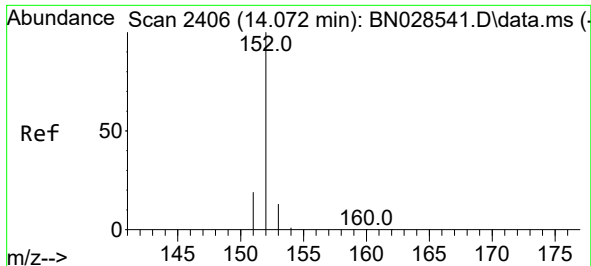
Tgt Ion:142 Resp: 15592  
Ion Ratio Lower Upper  
142 100  
141 91.4 70.8 106.2



#8  
1-Methylnaphthalene  
Concen: 0.357 ng/ul  
RT: 12.381 min Scan# 2076  
Delta R.T. -0.006 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:142 Resp: 16483  
Ion Ratio Lower Upper  
142 100  
141 93.9 74.1 111.1

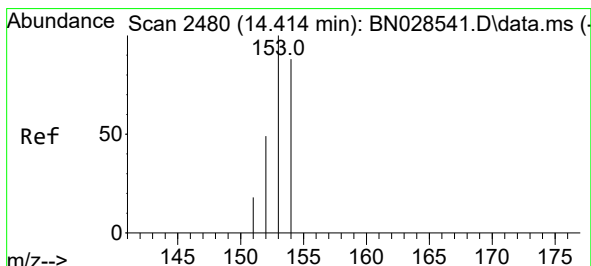
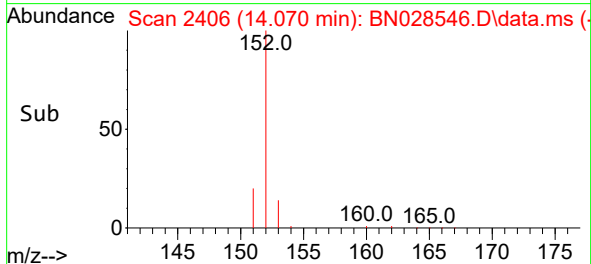
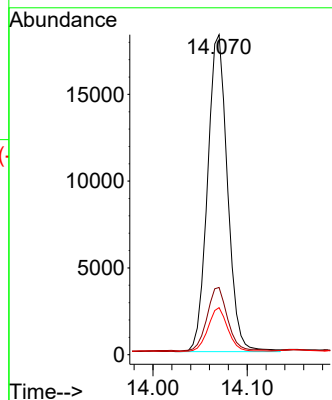
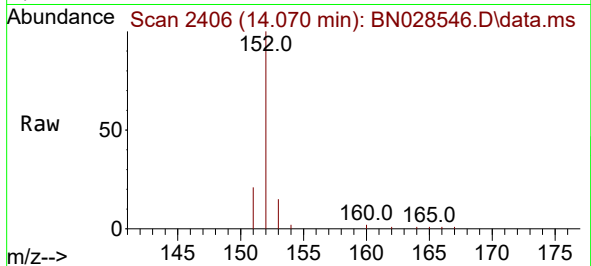




#10  
Acenaphthylene  
Concen: 0.346 ng/ul  
RT: 14.070 min Scan# 2406  
Delta R.T. -0.000 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

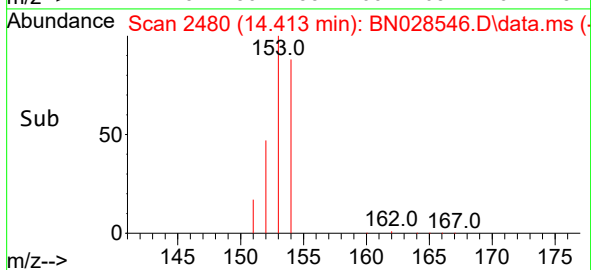
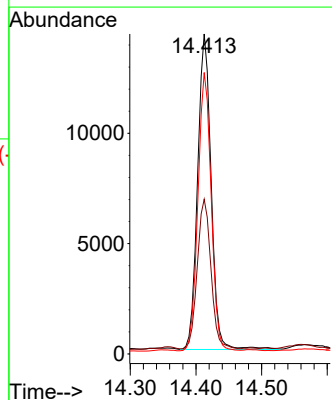
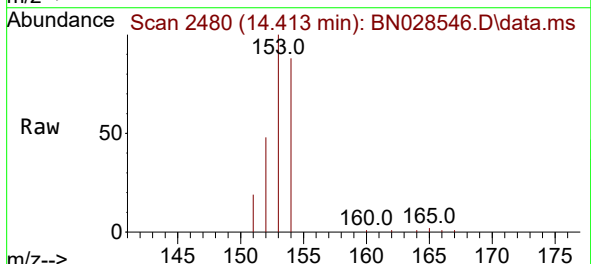
Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

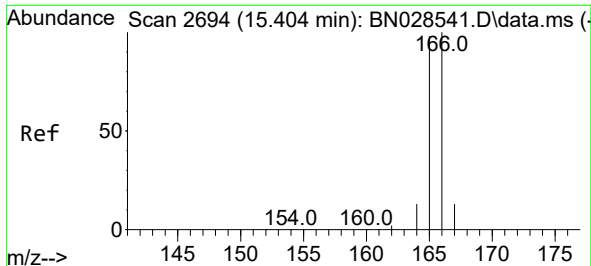
Tgt Ion:152 Resp: 26846  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.1 24.1  
153 14.7 10.6 15.8



#11  
Acenaphthene  
Concen: 0.359 ng/ul  
RT: 14.413 min Scan# 2480  
Delta R.T. -0.005 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:153 Resp: 20475  
Ion Ratio Lower Upper  
153 100  
152 48.4 39.6 59.4  
154 87.9 71.0 106.6

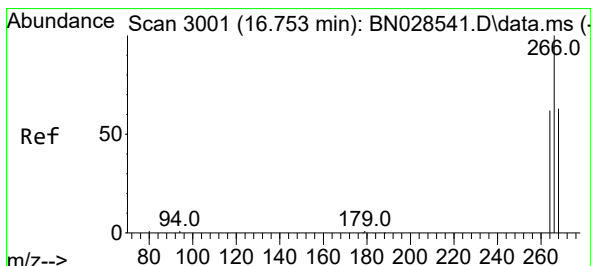
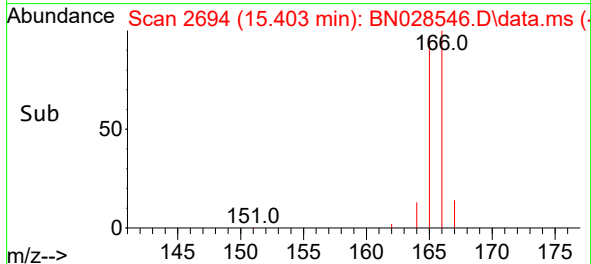
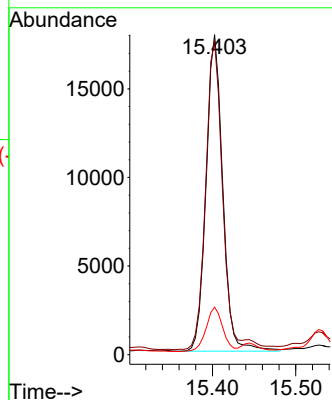
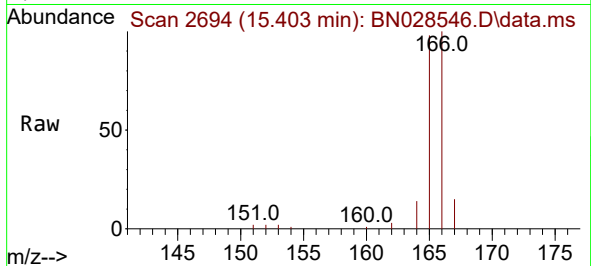




#12  
Fluorene  
Concen: 0.374 ng/ul  
RT: 15.403 min Scan# 2694  
Delta R.T. -0.005 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

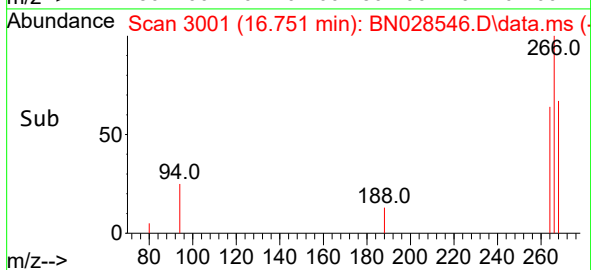
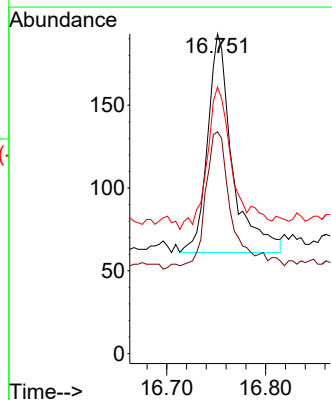
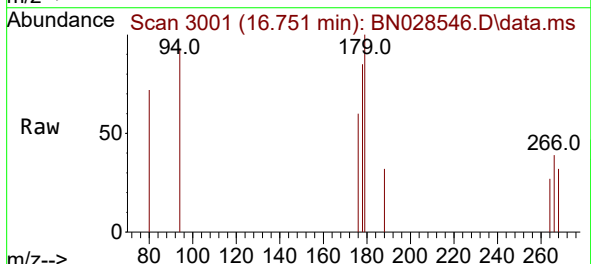
Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

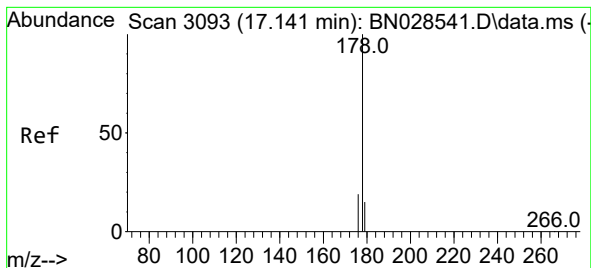
Tgt Ion:166 Resp: 24821  
Ion Ratio Lower Upper  
166 100  
165 97.9 78.6 118.0  
167 14.8 11.0 16.6



#14  
Pentachlorophenol  
Concen: 0.028 ng/ul  
RT: 16.751 min Scan# 3001  
Delta R.T. -0.004 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:266 Resp: 230  
Ion Ratio Lower Upper  
266 100  
264 63.5 50.1 75.1  
268 67.4 50.6 75.8





#15

Phenanthrene

Concen: 0.451 ng/ul

RT: 17.140 min Scan# 3093

Delta R.T. -0.004 min

Lab File: BN028546.D

Acq: 10 Nov 2023 08:21

Instrument :

BNA\_N

ClientSampleId :

BHEE3MS

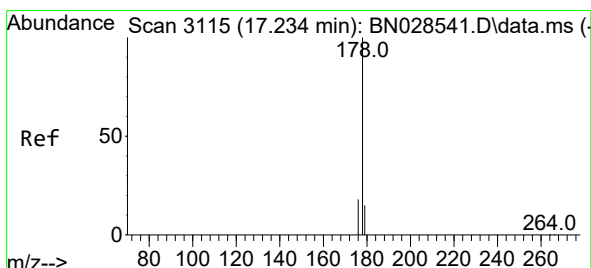
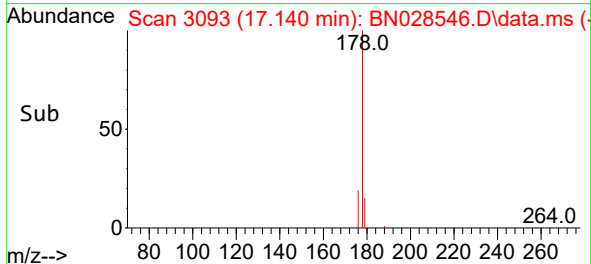
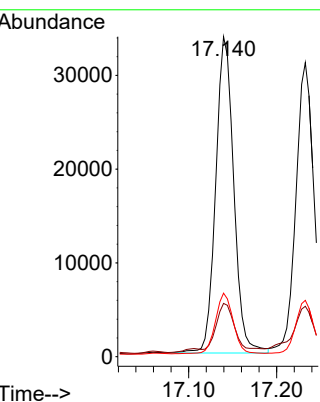
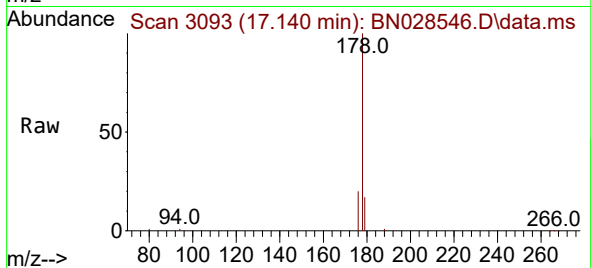
Tgt Ion:178 Resp: 48127

Ion Ratio Lower Upper

178 100

179 16.6 12.4 18.6

176 19.8 15.4 23.2



#16

Anthracene

Concen: 0.441 ng/ul

RT: 17.233 min Scan# 3115

Delta R.T. -0.004 min

Lab File: BN028546.D

Acq: 10 Nov 2023 08:21

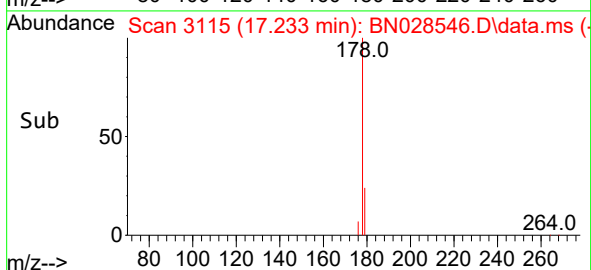
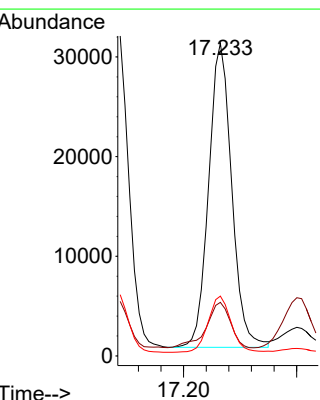
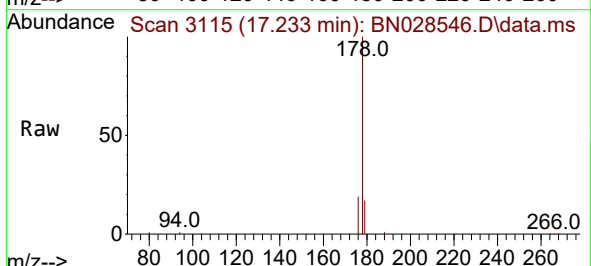
Tgt Ion:178 Resp: 43171

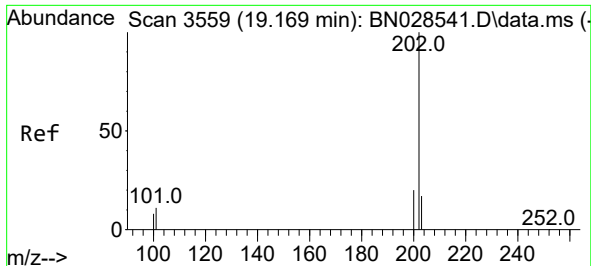
Ion Ratio Lower Upper

178 100

179 17.1 12.6 18.8

176 19.2 14.9 22.3

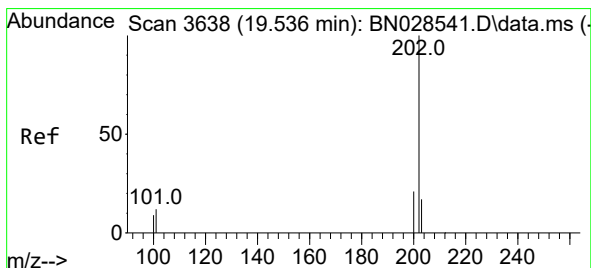
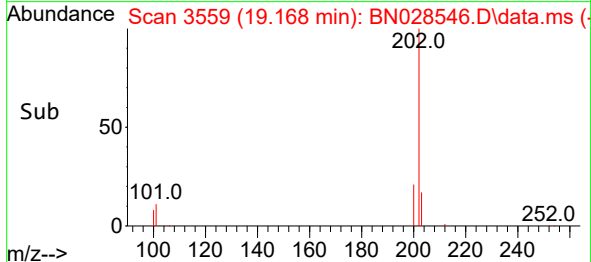
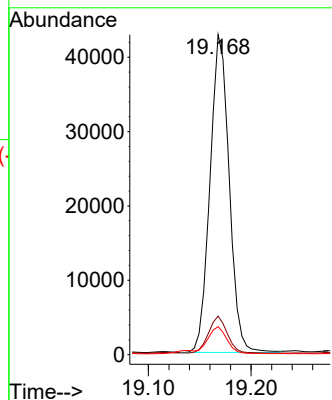
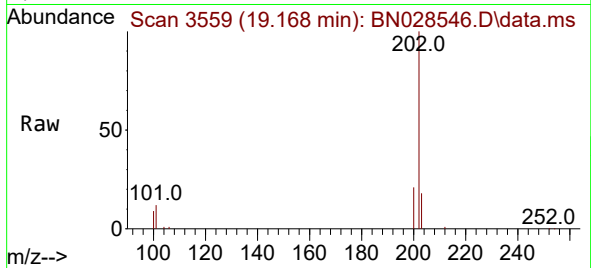




#19  
Fluoranthene  
Concen: 0.466 ng/ul  
RT: 19.168 min Scan# 3559  
Delta R.T. -0.004 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

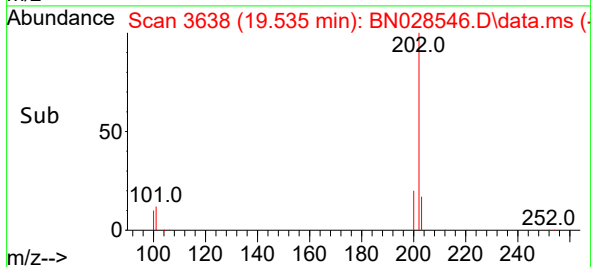
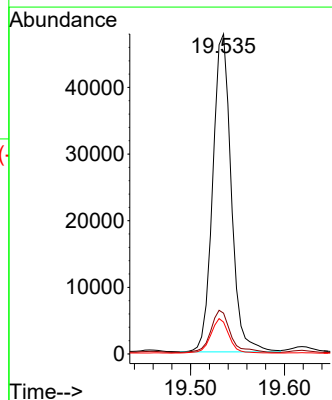
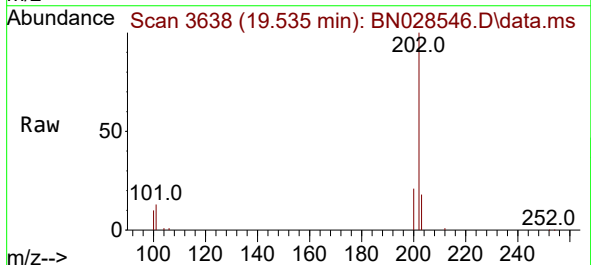
Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

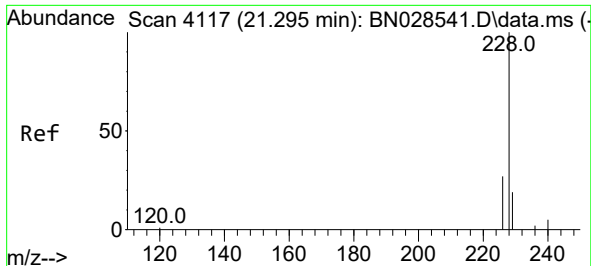
Tgt Ion:202 Resp: 55415  
Ion Ratio Lower Upper  
202 100  
101 12.1 9.5 14.3  
100 8.7 7.2 10.8



#20  
Pyrene  
Concen: 0.529 ng/ul  
RT: 19.535 min Scan# 3638  
Delta R.T. -0.004 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:202 Resp: 65219  
Ion Ratio Lower Upper  
202 100  
101 12.8 10.3 15.5  
100 9.9 8.2 12.2

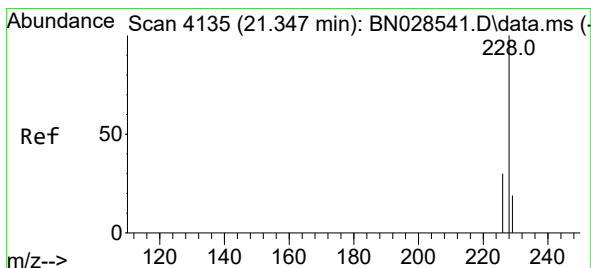
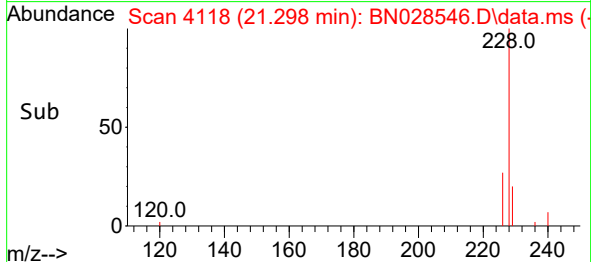
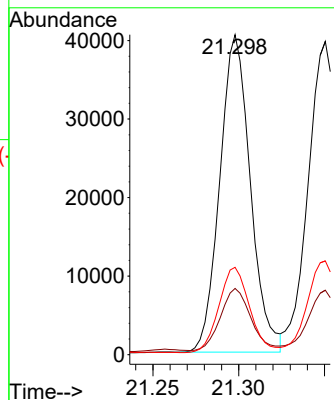
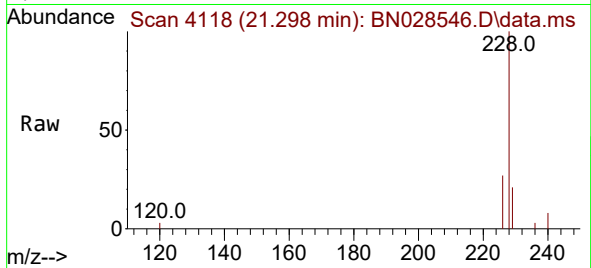




#21  
Benzo(a)anthracene  
Concen: 0.452 ng/ul  
RT: 21.298 min Scan# 4117  
Delta R.T. -0.006 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

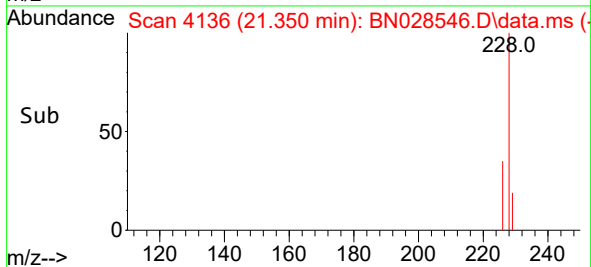
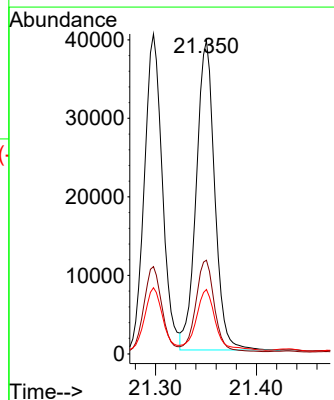
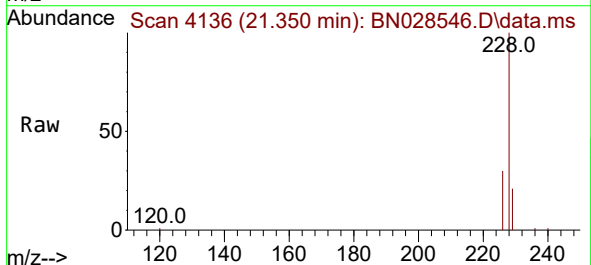
Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

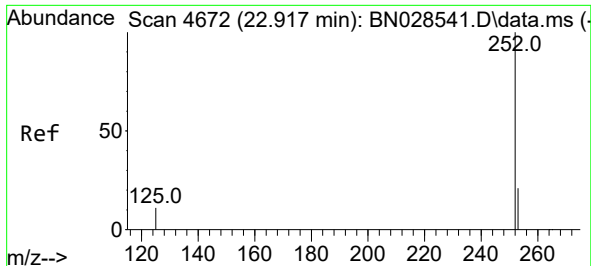
Tgt Ion:228 Resp: 50010  
Ion Ratio Lower Upper  
228 100  
229 20.7 15.7 23.5  
226 27.3 21.4 32.0



#22  
Chrysene  
Concen: 0.461 ng/ul  
RT: 21.350 min Scan# 4136  
Delta R.T. -0.006 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:228 Resp: 49896  
Ion Ratio Lower Upper  
228 100  
226 29.9 23.8 35.8  
229 20.6 15.4 23.2

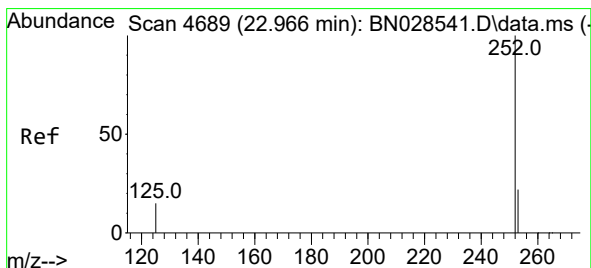
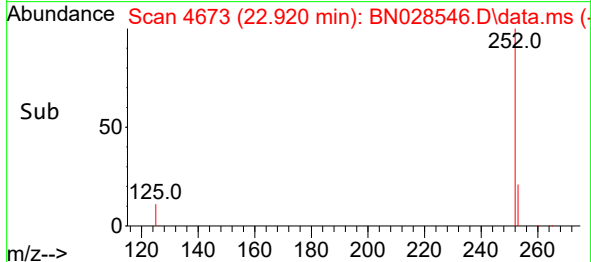
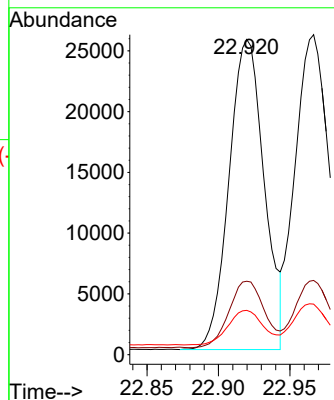
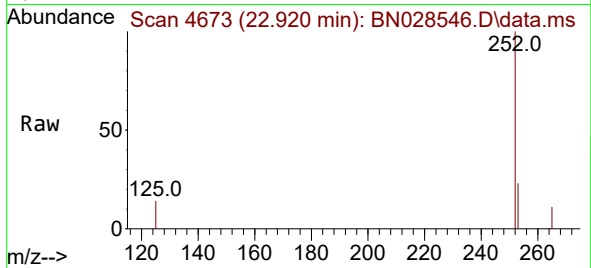




#24  
Benzo(b)fluoranthene  
Concen: 0.452 ng/ul  
RT: 22.920 min Scan# 4673  
Delta R.T. -0.008 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

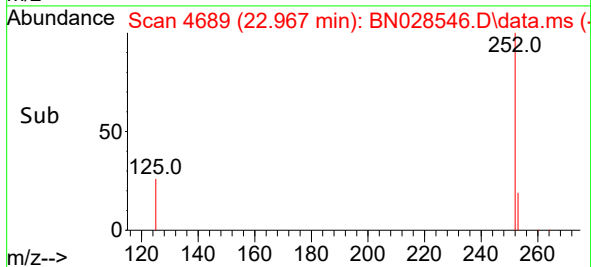
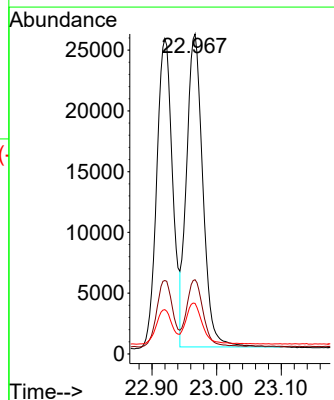
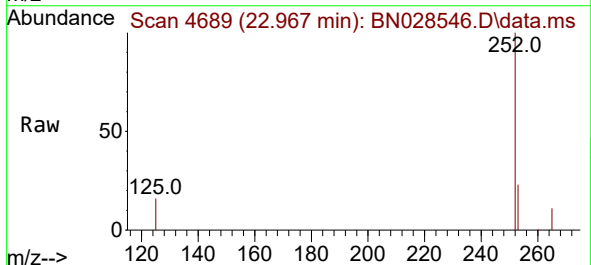
Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

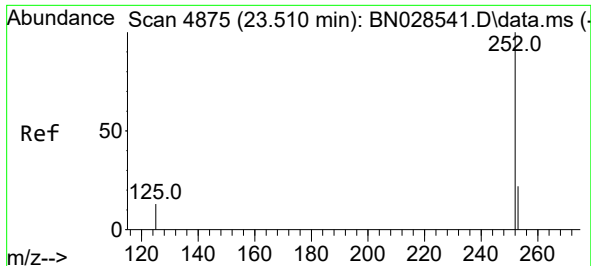
Tgt Ion:252 Resp: 43706  
Ion Ratio Lower Upper  
252 100  
253 23.3 0.0 46.6  
125 14.0 0.0 27.6



#25  
Benzo(k)fluoranthene  
Concen: 0.443 ng/ul  
RT: 22.967 min Scan# 4689  
Delta R.T. -0.008 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

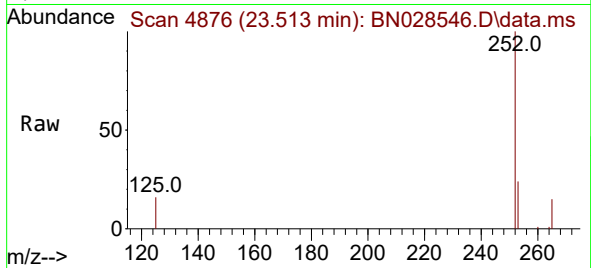
Tgt Ion:252 Resp: 44940  
Ion Ratio Lower Upper  
252 100  
253 23.2 18.6 28.0  
125 15.8 12.7 19.1



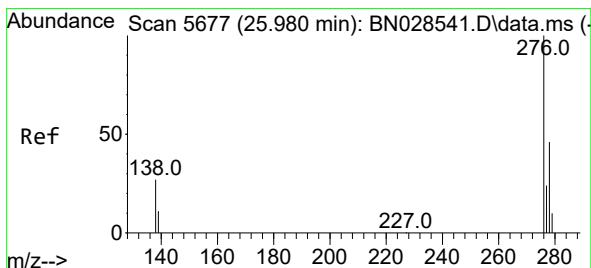
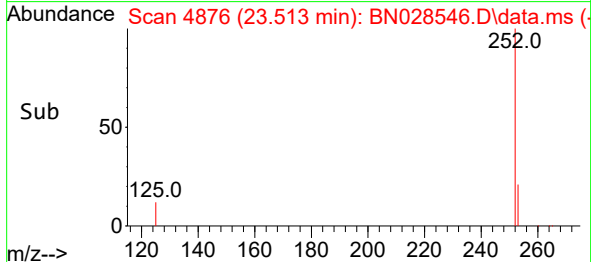
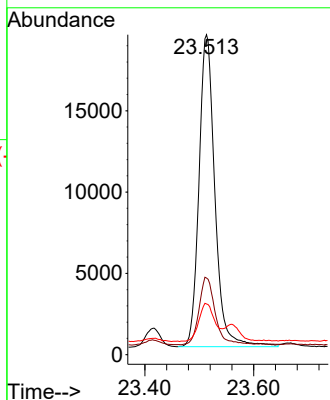


#26  
Benzo(a)pyrene  
Concen: 0.426 ng/ul  
RT: 23.513 min Scan# 4876  
Delta R.T. -0.011 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

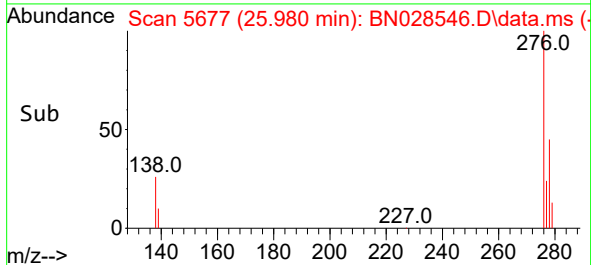
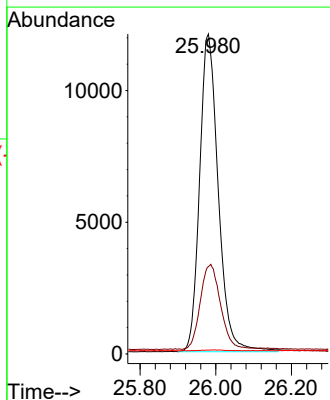
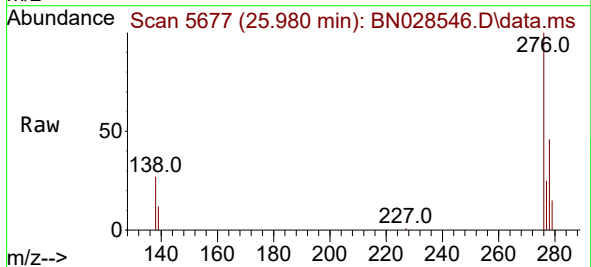


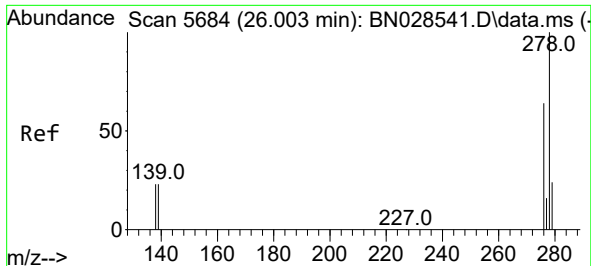
Tgt Ion:252 Resp: 38934  
Ion Ratio Lower Upper  
252 100  
253 23.9 19.0 28.6  
125 15.8 13.2 19.8



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.406 ng/ul  
RT: 25.980 min Scan# 5677  
Delta R.T. -0.013 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:276 Resp: 41199  
Ion Ratio Lower Upper  
276 100  
138 29.2 23.8 35.6  
227 0.3 0.1 0.1#

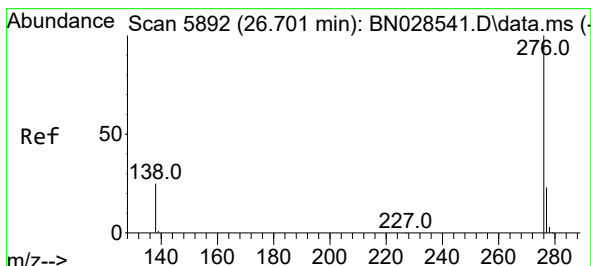
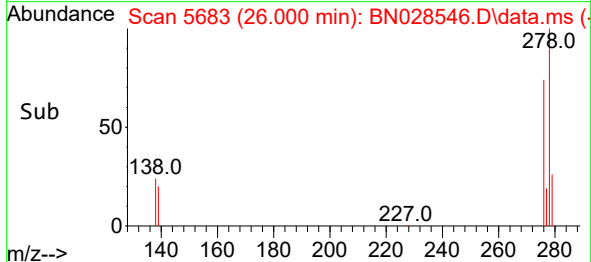
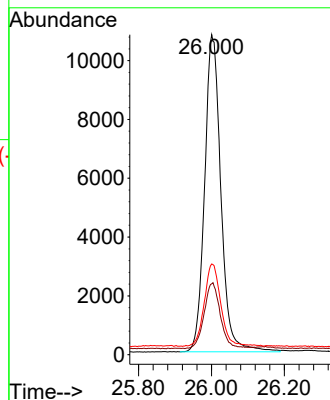
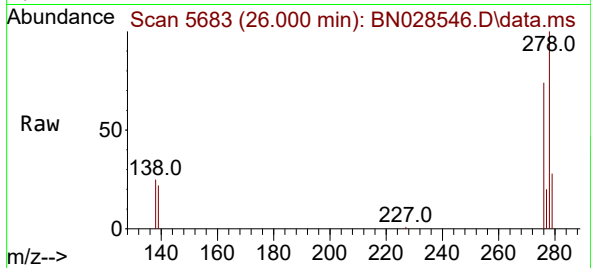




#28  
Dibenzo(a,h)anthracene  
Concen: 0.414 ng/ul  
RT: 26.000 min Scan# 5683  
Delta R.T. -0.016 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Instrument :  
BNA\_N  
ClientSampleId :  
BHEE3MS

Tgt Ion:278 Resp: 33520  
Ion Ratio Lower Upper  
278 100  
139 22.2 18.2 27.4  
279 28.3 20.7 31.1



#29  
Benzo(g,h,i)perylene  
Concen: 0.399 ng/ul  
RT: 26.701 min Scan# 5892  
Delta R.T. -0.016 min  
Lab File: BN028546.D  
Acq: 10 Nov 2023 08:21

Tgt Ion:276 Resp: 33188  
Ion Ratio Lower Upper  
276 100  
138 26.1 20.5 30.7  
277 24.7 19.4 29.0

