

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051723\  
 Data File : BN025468.D  
 Acq On : 18 May 2023 00:04  
 Operator : CG/JU  
 Sample : 02816-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB-22-K2-SO-3.5-051623

Quant Time: May 18 03:42:46 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 03:36:39 2023  
 Response via : Initial Calibration

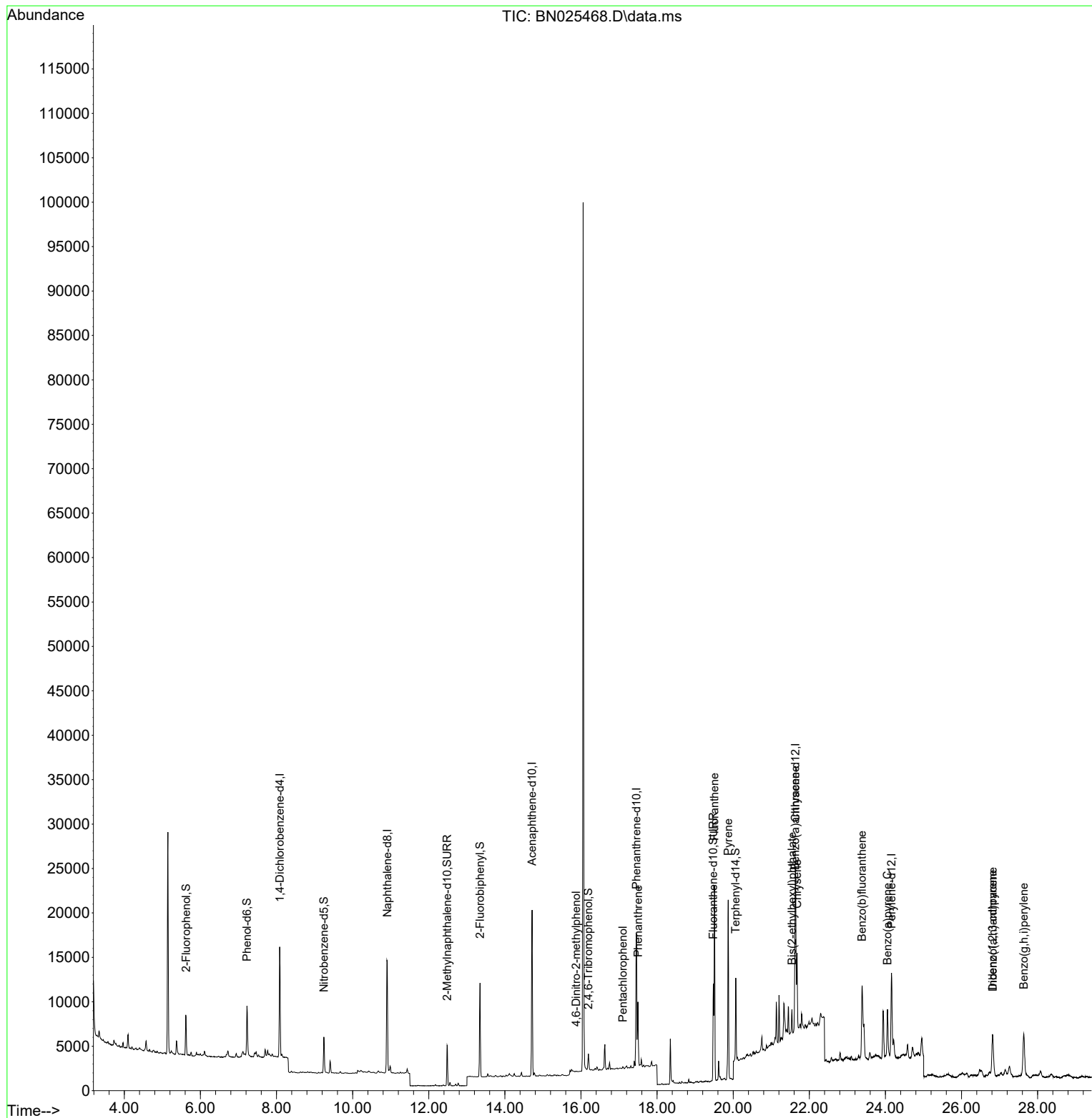
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min)    |
|-------------------------------|--------|------|----------|-----------|-------|-------------|
| -----                         |        |      |          |           |       |             |
| Internal Standards            |        |      |          |           |       |             |
| 1) 1,4-Dichlorobenzene-d4     | 8.084  | 152  | 6143     | 0.400     | ng    | 0.00        |
| 7) Naphthalene-d8             | 10.910 | 136  | 18265    | 0.400     | ng    | # 0.00      |
| 13) Acenaphthene-d10          | 14.715 | 164  | 10297    | 0.400     | ng    | 0.00        |
| 19) Phenanthrene-d10          | 17.460 | 188  | 22672    | 0.400     | ng    | # 0.00      |
| 29) Chrysene-d12              | 21.634 | 240  | 15656    | 0.400     | ng    | # 0.00      |
| 35) Perylene-d12              | 24.158 | 264  | 13887    | 0.400     | ng    | #-0.02      |
| System Monitoring Compounds   |        |      |          |           |       |             |
| 4) 2-Fluorophenol             | 5.622  | 112  | 3777     | 0.286     | ng    | 0.00        |
| 5) Phenol-d6                  | 7.225  | 99   | 5205     | 0.294     | ng    | 0.00        |
| 8) Nitrobenzene-d5            | 9.244  | 82   | 3243     | 0.260     | ng    | 0.00        |
| 11) 2-Methylnaphthalene-d10   | 12.483 | 152  | 6068     | 0.238     | ng    | 0.00        |
| 14) 2,4,6-Tribromophenol      | 16.194 | 330  | 908      | 0.260     | ng    | 0.00        |
| 15) 2-Fluorobiphenyl          | 13.347 | 172  | 8895     | 0.236     | ng    | 0.00        |
| 27) Fluoranthene-d10          | 19.477 | 212  | 11987    | 0.222     | ng    | 0.00        |
| 31) Terphenyl-d14             | 20.067 | 244  | 7725     | 0.272     | ng    | 0.00        |
| Target Compounds              |        |      |          |           |       |             |
| 6) bis(2-Chloroethyl)ether    | 7.420  | 93   | 702      | Below Cal |       | Qvalue # 32 |
| 20) 4,6-Dinitro-2-methylph... | 15.871 | 198  | 11       | 0.136     | ng    | # 1         |
| 24) Pentachlorophenol         | 17.100 | 266  | 60       | 0.215     | ng    | 88          |
| 25) Phenanthrene              | 17.497 | 178  | 7491     | 0.117     | ng    | 97          |
| 28) Fluoranthene              | 19.507 | 202  | 19596    | 0.259     | ng    | 99          |
| 30) Pyrene                    | 19.869 | 202  | 17578    | 0.294     | ng    | 96          |
| 32) Benzo(a)anthracene        | 21.625 | 228  | 7084     | 0.129     | ng    | # 89        |
| 33) Chrysene                  | 21.679 | 228  | 9438     | 0.173     | ng    | # 93        |
| 34) Bis(2-ethylhexyl)phtha... | 21.544 | 149  | 2798     | 0.087     | ng    | 99          |
| 36) Indeno(1,2,3-cd)pyrene    | 26.816 | 276  | 8091     | 0.144     | ng    | 95          |
| 37) Benzo(b)fluoranthene      | 23.387 | 252  | 14589    | 0.300     | ng    | # 79        |
| 39) Benzo(a)pyrene            | 24.053 | 252  | 8036     | 0.173     | ng    | # 69        |
| 40) Dibenzo(a,h)anthracene    | 26.822 | 278  | 1998     | 0.044     | ng    | # 1         |
| 41) Benzo(g,h,i)perylene      | 27.635 | 276  | 10303    | 0.217     | ng    | # 88        |
| -----                         |        |      |          |           |       |             |

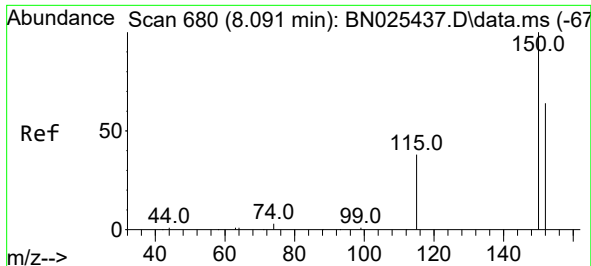
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051723\  
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Sample : 02816-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
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CB-22-K2-SO-3.5-051623

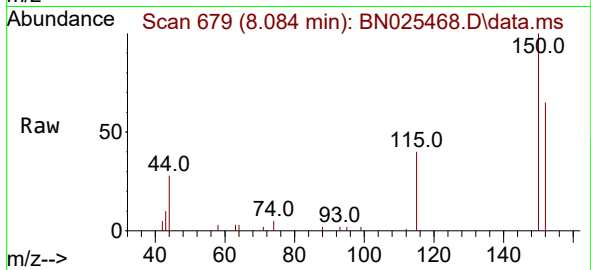
Quant Time: May 18 03:42:46 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 18 03:36:39 2023  
Response via : Initial Calibration



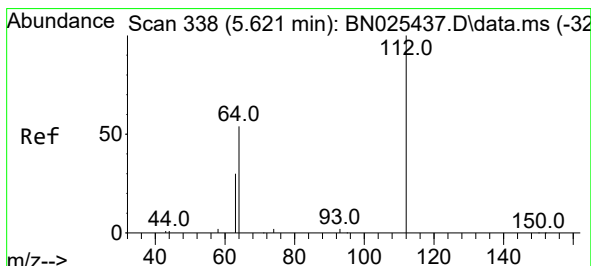
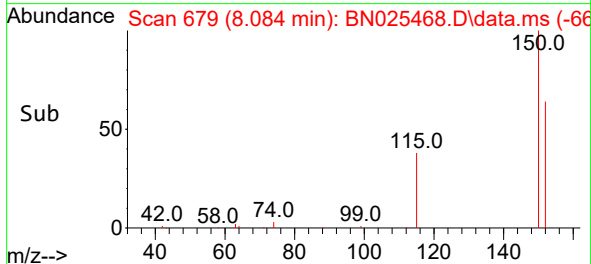
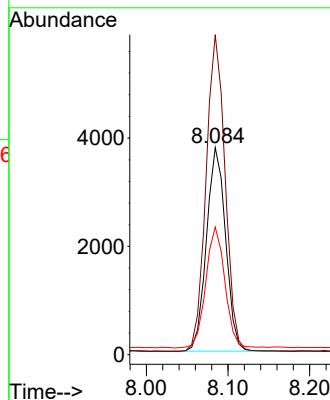


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.084 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

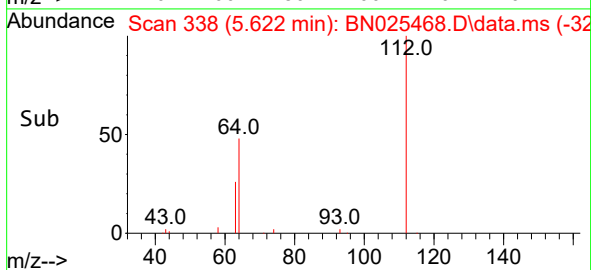
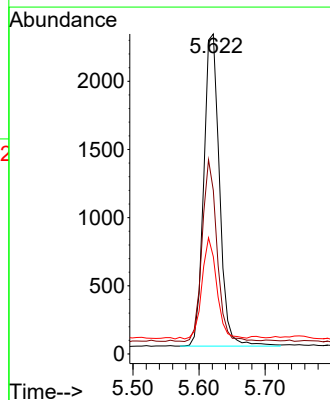
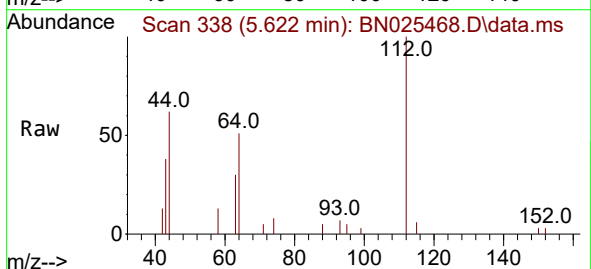


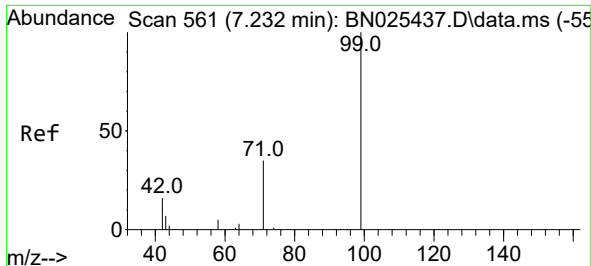
Tgt Ion:152 Resp: 6143  
Ion Ratio Lower Upper  
152 100  
150 154.6 123.7 185.5  
115 61.7 50.0 75.0



#4  
2-Fluorophenol  
Concen: 0.286 ng  
RT: 5.622 min Scan# 338  
Delta R.T. 0.007 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:112 Resp: 3777  
Ion Ratio Lower Upper  
112 100  
64 55.1 43.9 65.9  
63 30.6 25.0 37.4

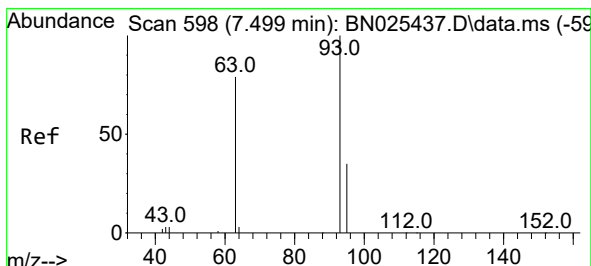
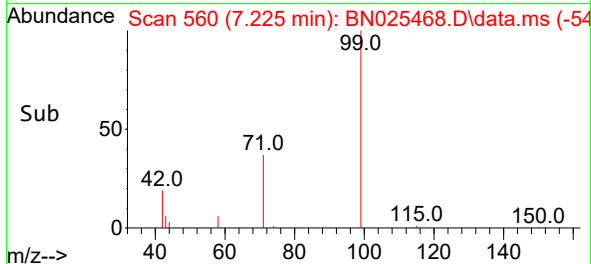
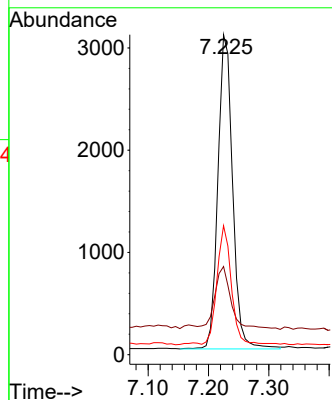
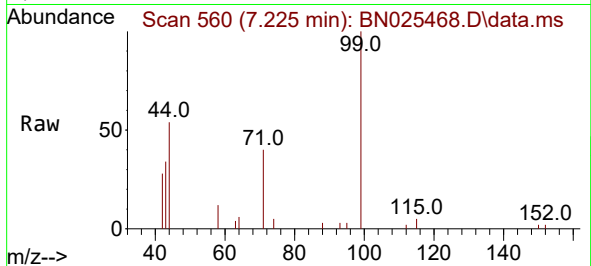




#5  
Phenol-d6  
Concen: 0.294 ng  
RT: 7.225 min Scan# 50  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

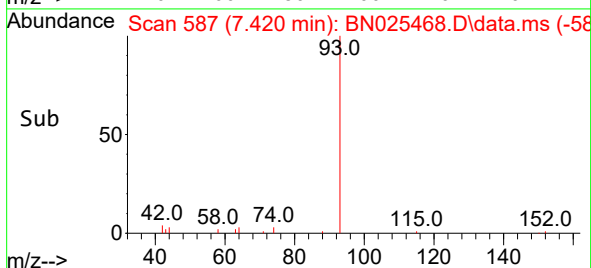
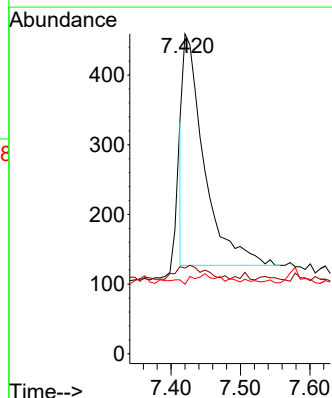
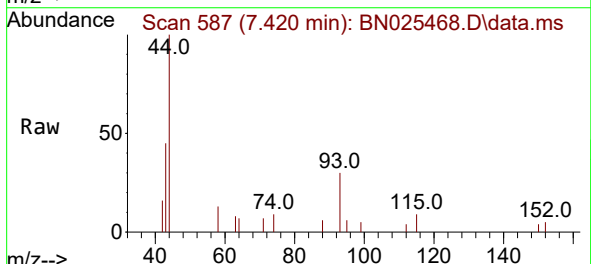
Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

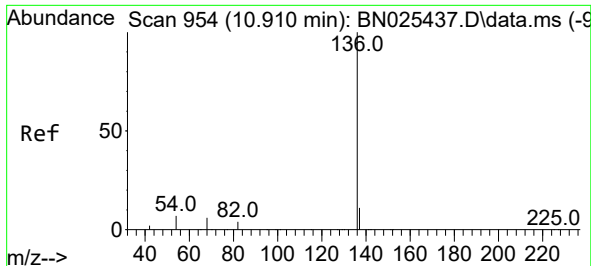
Tgt Ion: 99 Resp: 5205  
Ion Ratio Lower Upper  
99 100  
42 22.2 16.4 24.6  
71 37.1 29.4 44.0



#6  
bis(2-Chloroethyl)ether  
Concen: Below Cal  
RT: 7.420 min Scan# 587  
Delta R.T. -0.079 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion: 93 Resp: 702  
Ion Ratio Lower Upper  
93 100  
63 3.8 48.5 72.7#  
95 0.0 22.0 33.0#

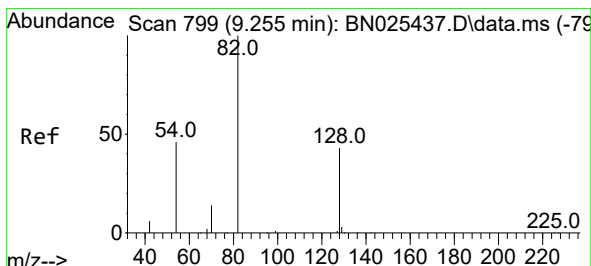
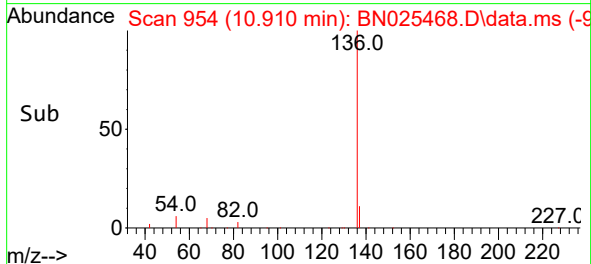
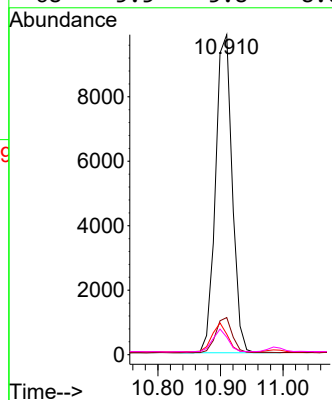
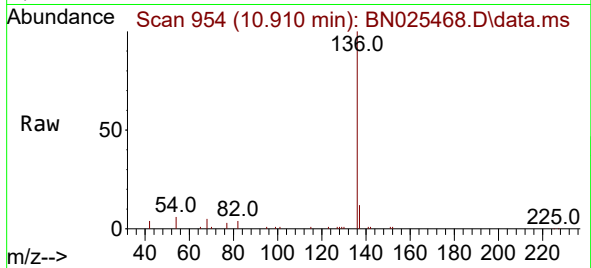




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.910 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

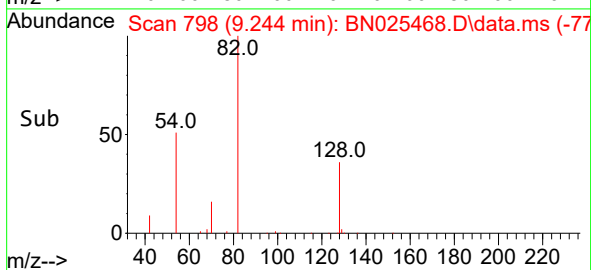
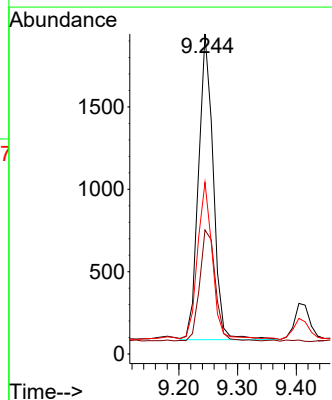
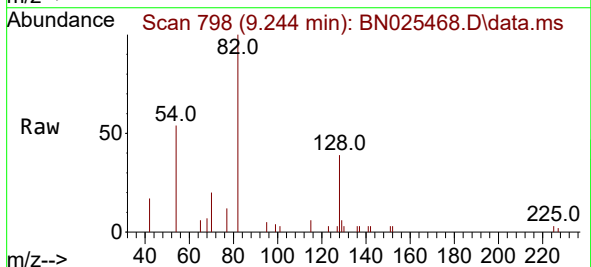
Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

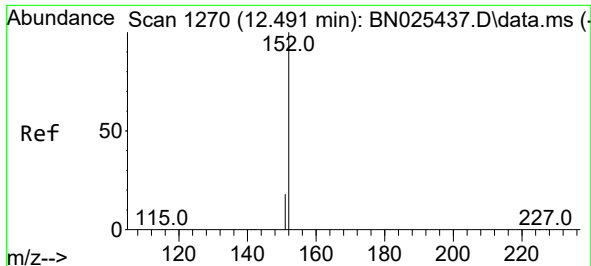
Tgt Ion:136 Resp: 18265  
Ion Ratio Lower Upper  
136 100  
137 11.6 9.4 14.0  
54 6.4 7.0 10.4#  
68 5.5 5.8 8.6#



#8  
Nitrobenzene-d5  
Concen: 0.260 ng  
RT: 9.244 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion: 82 Resp: 3243  
Ion Ratio Lower Upper  
82 100  
128 38.8 35.7 53.5  
54 53.7 38.6 57.8

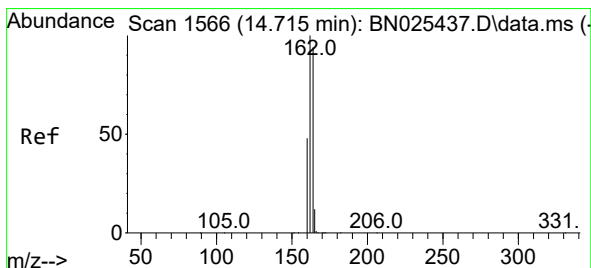
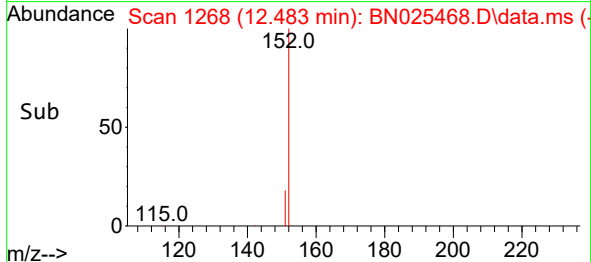
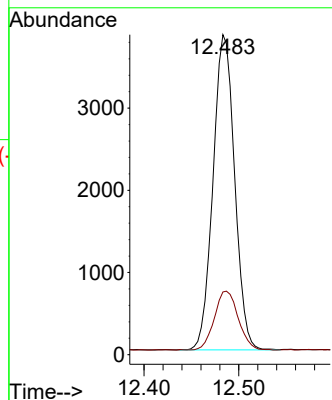
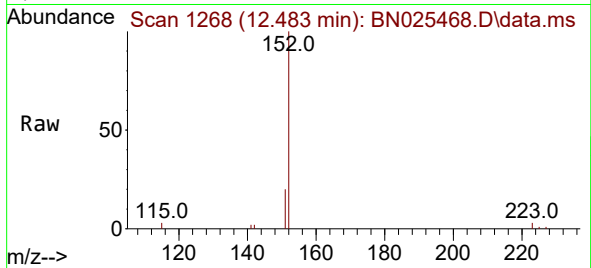




#11  
2-Methylnaphthalene-d10  
Concen: 0.238 ng  
RT: 12.483 min Scan# 1268  
Delta R.T. -0.004 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

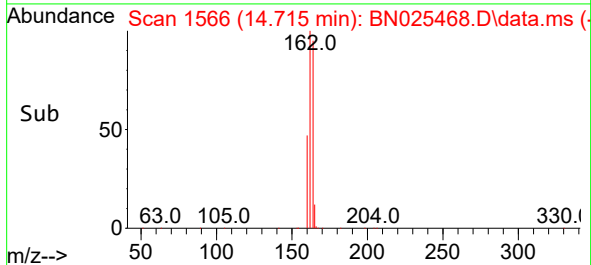
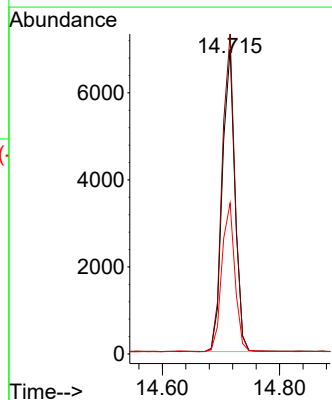
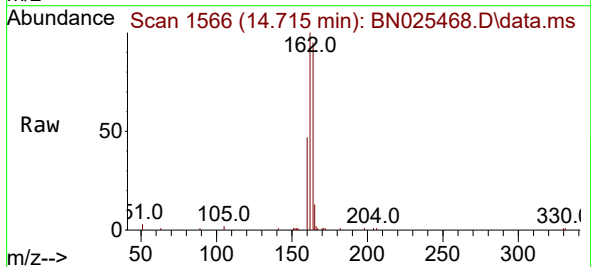
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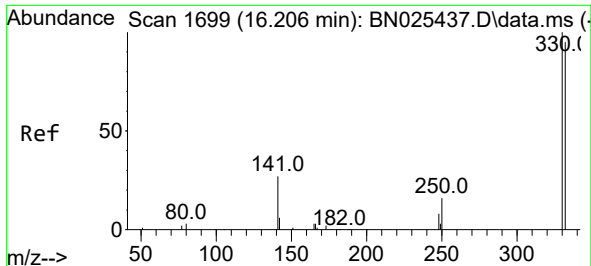
Tgt Ion:152 Resp: 6068  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.5 24.7



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.715 min Scan# 1566  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

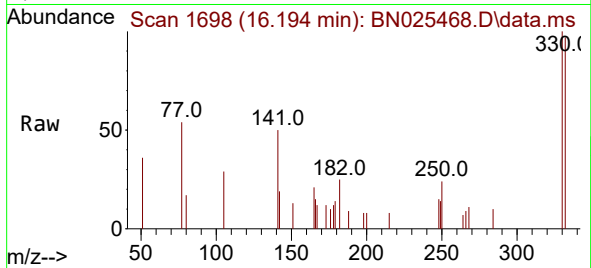
Tgt Ion:164 Resp: 10297  
Ion Ratio Lower Upper  
164 100  
162 105.0 84.8 127.2  
160 49.5 40.6 61.0



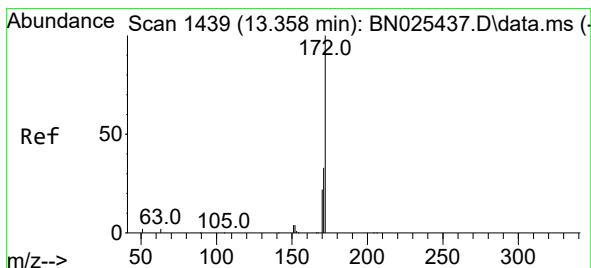
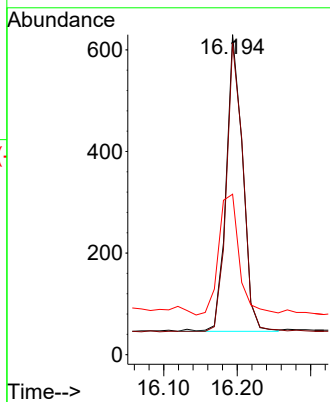
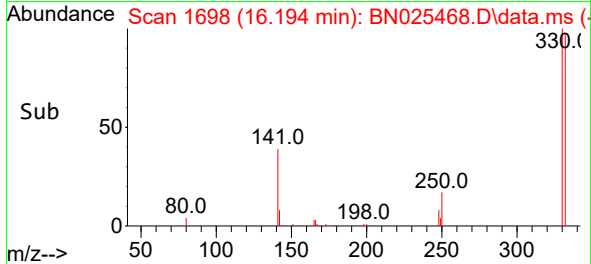


#14  
2,4,6-Tribromophenol  
Concen: 0.260 ng  
RT: 16.194 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

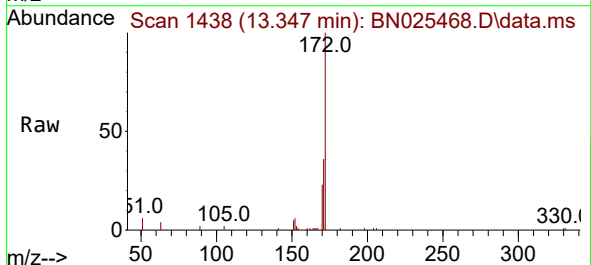
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ClientSampleId :  
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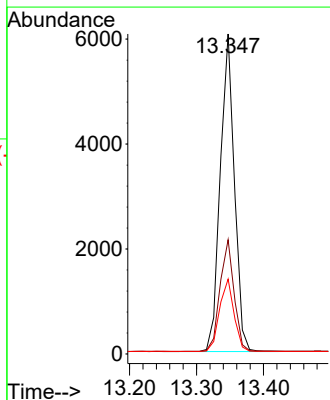
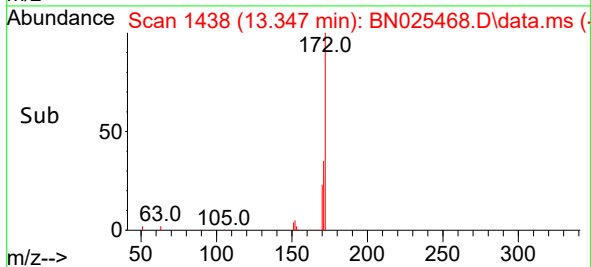
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Ion Ratio Lower Upper  
330 100  
332 97.8 75.5 113.3  
141 51.5 35.3 52.9

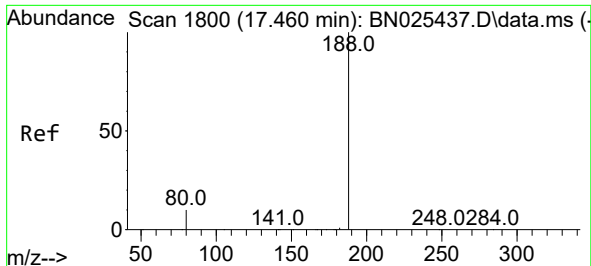


#15  
2-Fluorobiphenyl  
Concen: 0.236 ng  
RT: 13.347 min Scan# 1438  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04



Tgt Ion:172 Resp: 8895  
Ion Ratio Lower Upper  
172 100  
171 35.7 27.0 40.6  
170 23.4 18.2 27.2

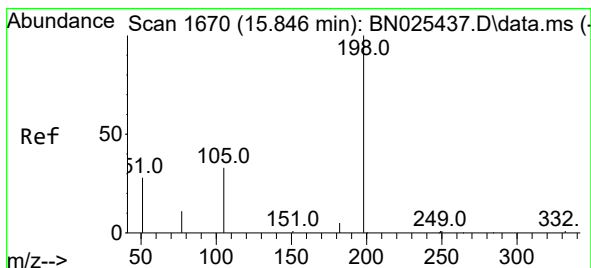
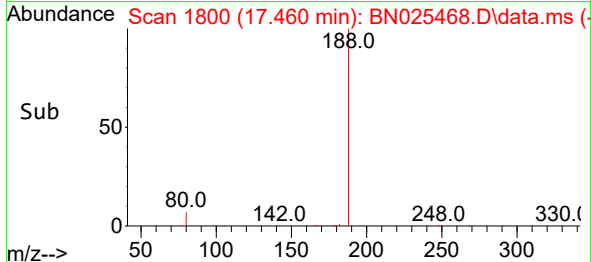
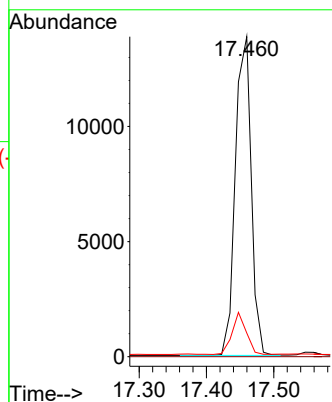
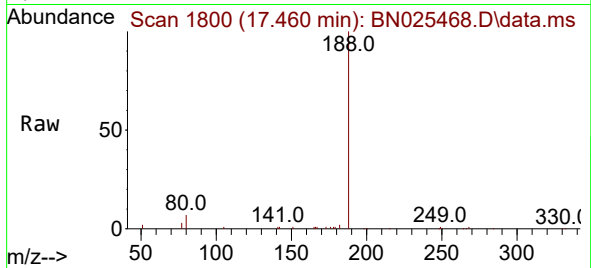




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.460 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

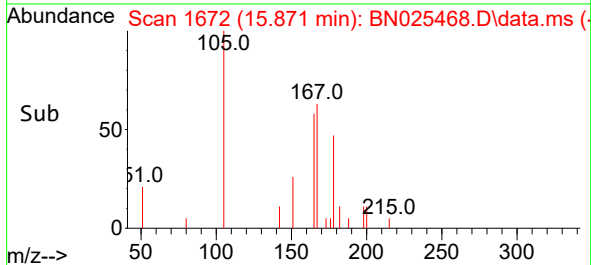
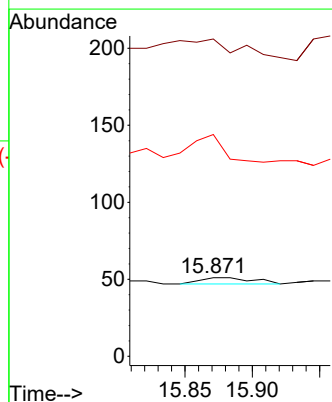
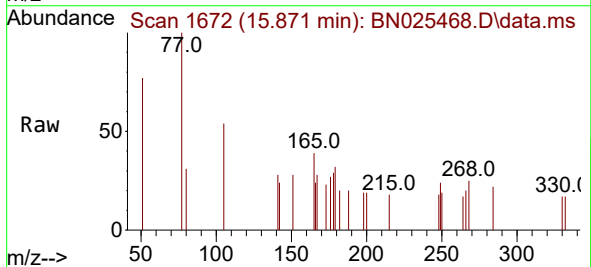
Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

Tgt Ion:188 Resp: 22672  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.4 8.7 13.1#

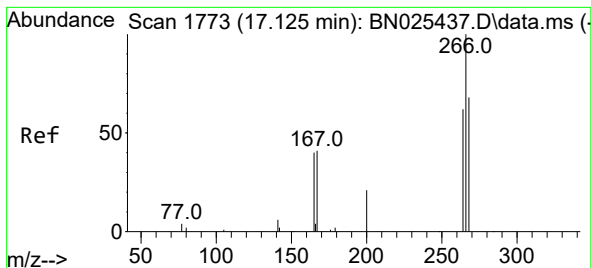


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.136 ng  
RT: 15.871 min Scan# 1672  
Delta R.T. 0.050 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:198 Resp: 11  
Ion Ratio Lower Upper  
198 100  
51 403.9 68.5 102.7#  
105 282.4 57.6 86.4#







#24

Pentachlorophenol

Concen: 0.215 ng

RT: 17.100 min Scan# 1771

Delta R.T. -0.012 min

Lab File: BN025468.D

Acq: 18 May 2023 00:04

Instrument :

BNA\_N

ClientSampleId :

CB-22-K2-SO-3.5-051623

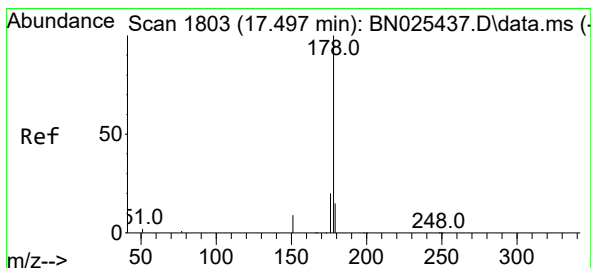
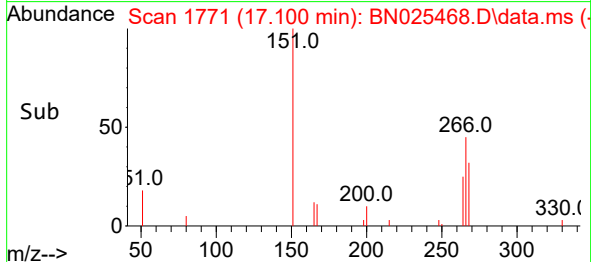
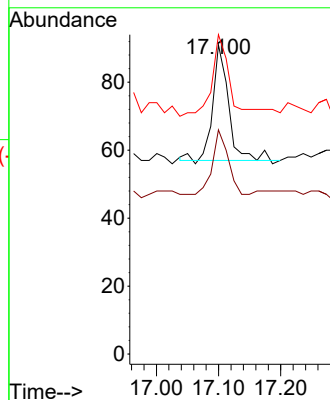
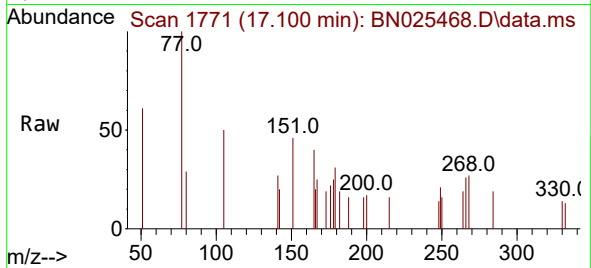
Tgt Ion:266 Resp: 60

Ion Ratio Lower Upper

266 100

264 55.0 49.5 74.3

268 75.0 51.0 76.4



#25

Phenanthrene

Concen: 0.117 ng

RT: 17.497 min Scan# 1803

Delta R.T. -0.000 min

Lab File: BN025468.D

Acq: 18 May 2023 00:04

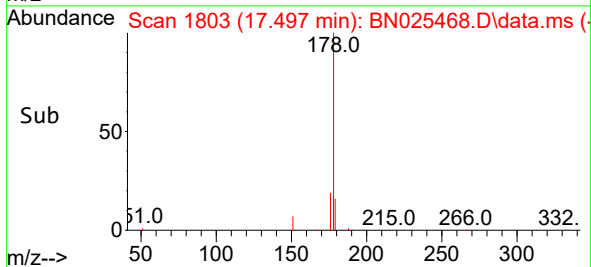
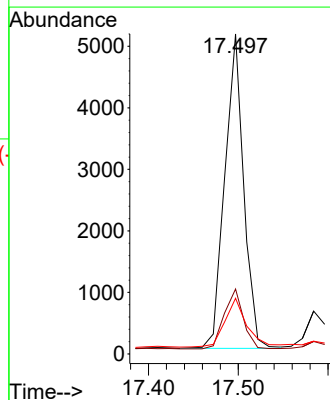
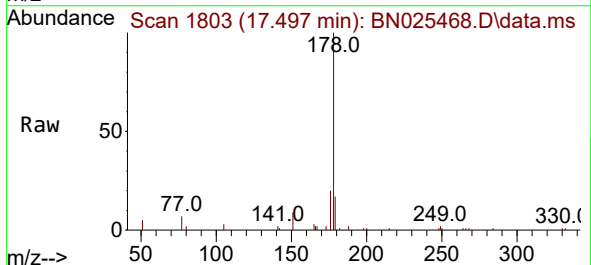
Tgt Ion:178 Resp: 7491

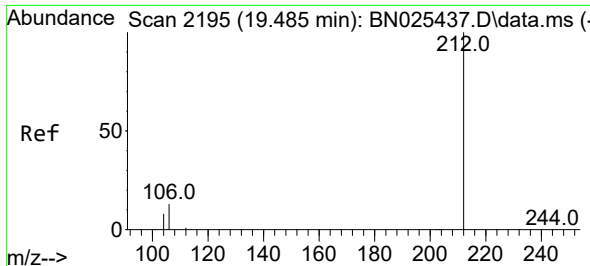
Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

179 18.1 12.2 18.4

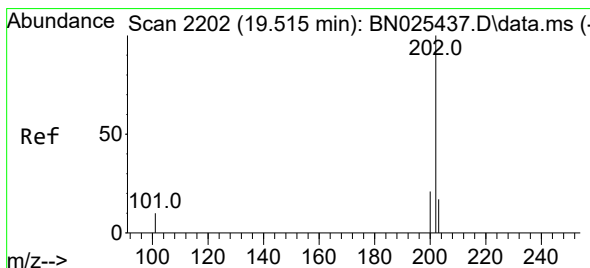
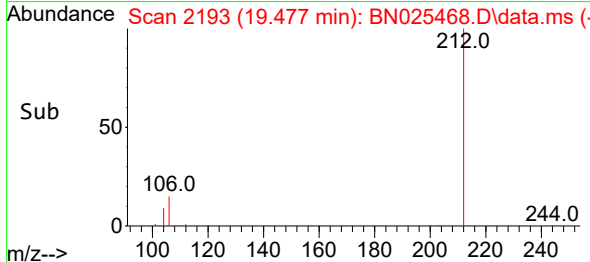
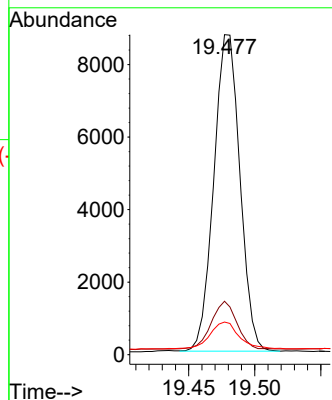
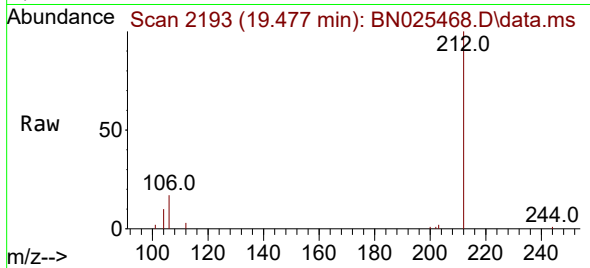




#27  
Fluoranthene-d10  
Concen: 0.222 ng  
RT: 19.477 min Scan# 2193  
Delta R.T. -0.004 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

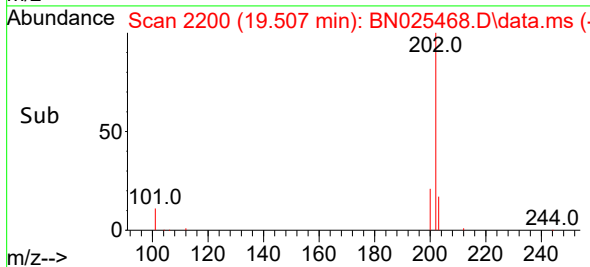
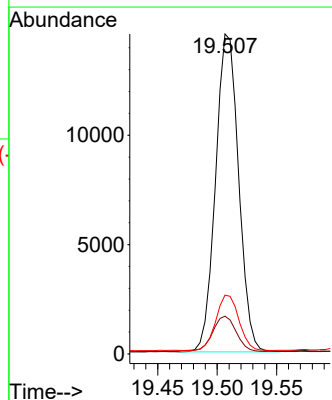
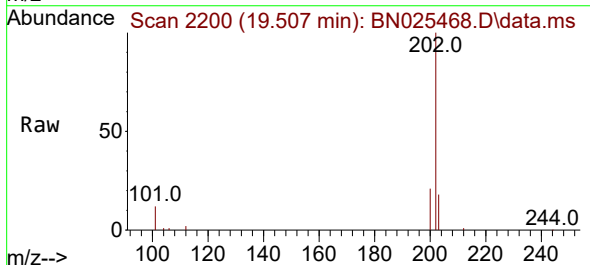
Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

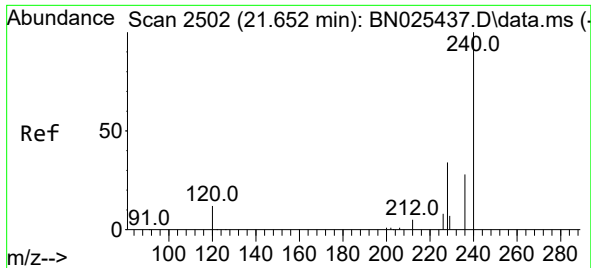
Tgt Ion:212 Resp: 11987  
Ion Ratio Lower Upper  
212 100  
106 14.9 11.1 16.7  
104 10.3 6.6 10.0#



#28  
Fluoranthene  
Concen: 0.259 ng  
RT: 19.507 min Scan# 2200  
Delta R.T. -0.004 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:202 Resp: 19596  
Ion Ratio Lower Upper  
202 100  
101 11.7 8.6 13.0  
203 17.5 13.9 20.9

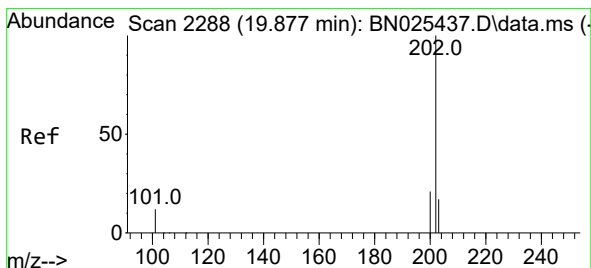
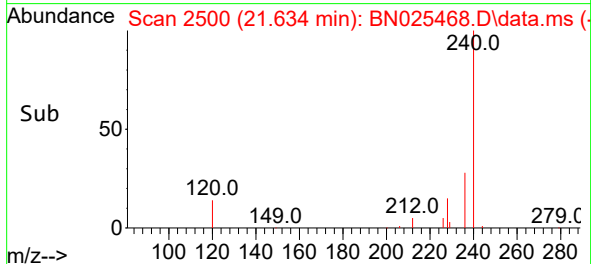
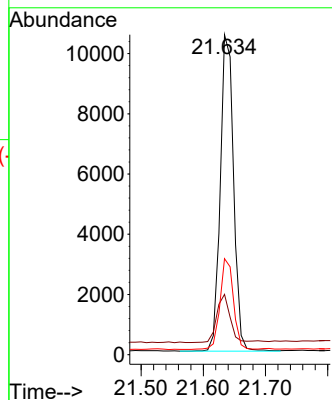
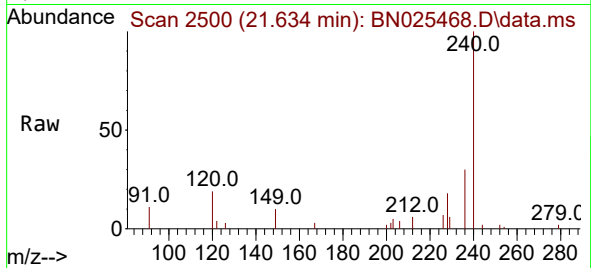




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.634 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

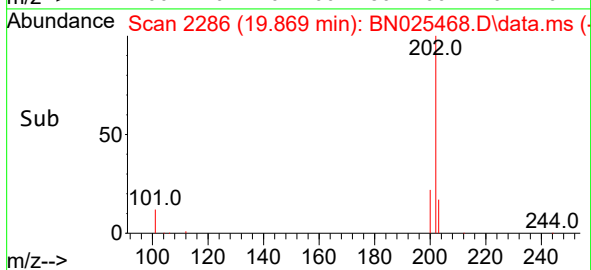
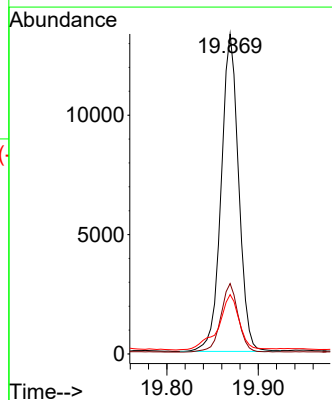
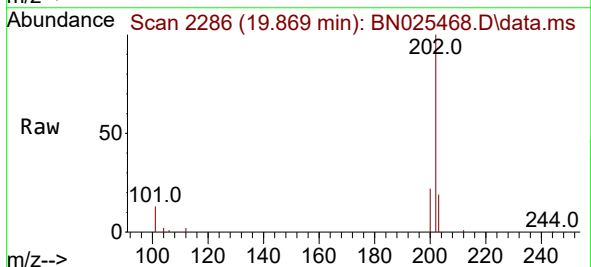
Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

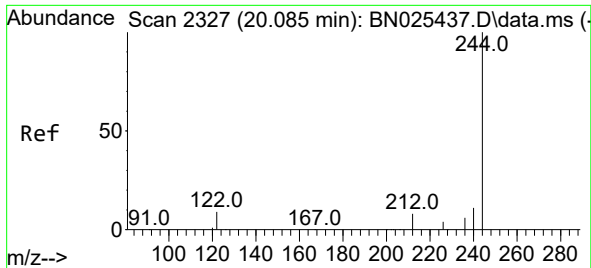
Tgt Ion:240 Resp: 15656  
Ion Ratio Lower Upper  
240 100  
120 18.8 11.6 17.4#  
236 30.0 22.9 34.3



#30  
Pyrene  
Concen: 0.294 ng  
RT: 19.869 min Scan# 2286  
Delta R.T. -0.004 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:202 Resp: 17578  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.0 25.4  
203 21.0 14.2 21.4

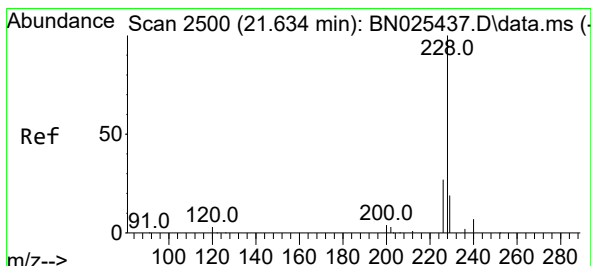
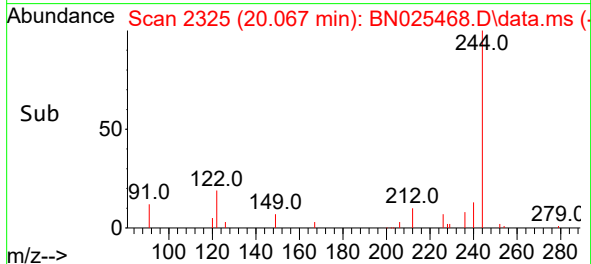
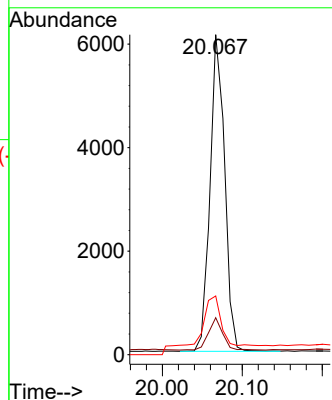
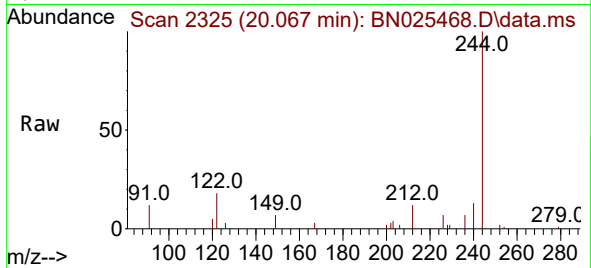




#31  
 Terphenyl-d14  
 Concen: 0.272 ng  
 RT: 20.067 min Scan# 21  
 Delta R.T. -0.009 min  
 Lab File: BN025468.D  
 Acq: 18 May 2023 00:04

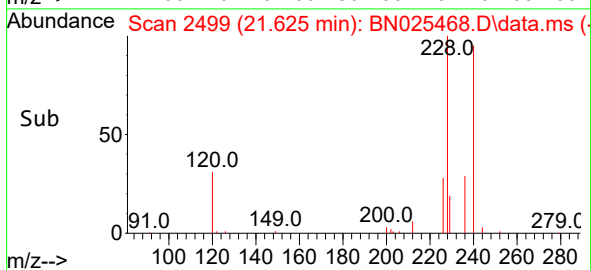
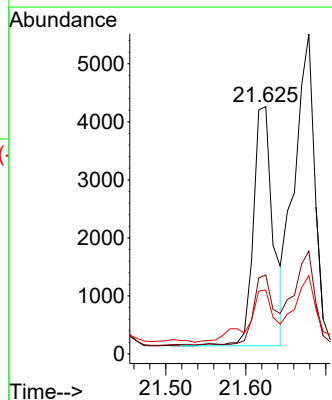
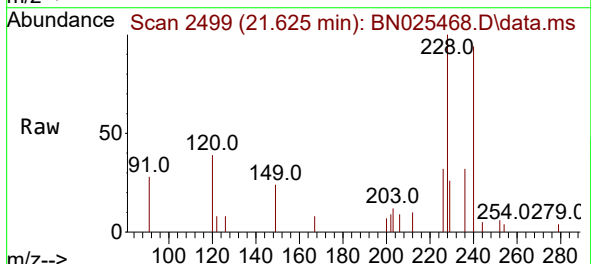
Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB-22-K2-SO-3.5-051623

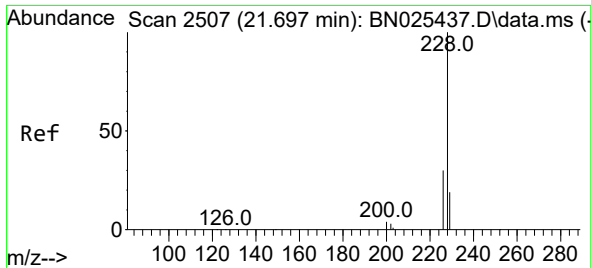
Tgt Ion:244 Resp: 7725  
 Ion Ratio Lower Upper  
 244 100  
 212 11.6 6.9 10.3#  
 122 18.3 7.4 11.2#



#32  
 Benzo(a)anthracene  
 Concen: 0.129 ng  
 RT: 21.625 min Scan# 2499  
 Delta R.T. -0.000 min  
 Lab File: BN025468.D  
 Acq: 18 May 2023 00:04

Tgt Ion:228 Resp: 7084  
 Ion Ratio Lower Upper  
 228 100  
 226 31.9 22.1 33.1  
 229 25.9 15.4 23.2#





#33

Chrysene

Concen: 0.173 ng

RT: 21.679 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN025468.D

Acq: 18 May 2023 00:04

Instrument :

BNA\_N

ClientSampleId :

CB-22-K2-SO-3.5-051623

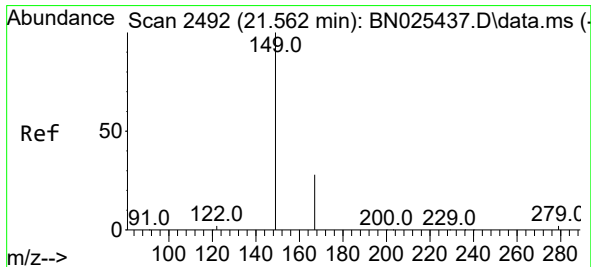
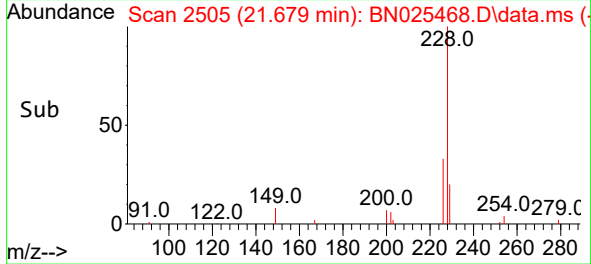
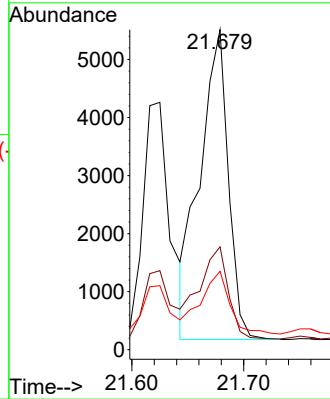
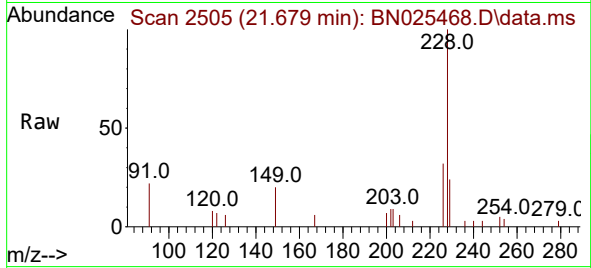
Tgt Ion:228 Resp: 9438

Ion Ratio Lower Upper

228 100

226 32.2 23.9 35.9

229 24.5 15.8 23.6#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.087 ng

RT: 21.544 min Scan# 2490

Delta R.T. -0.009 min

Lab File: BN025468.D

Acq: 18 May 2023 00:04

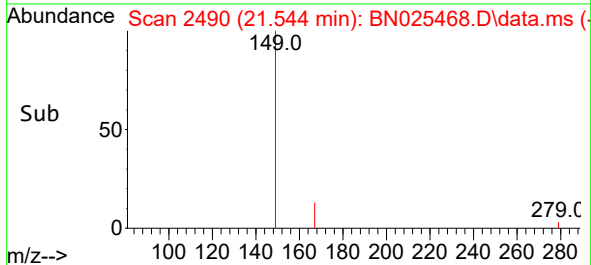
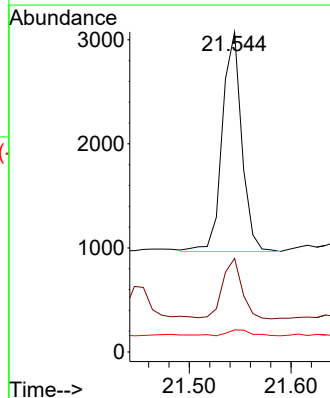
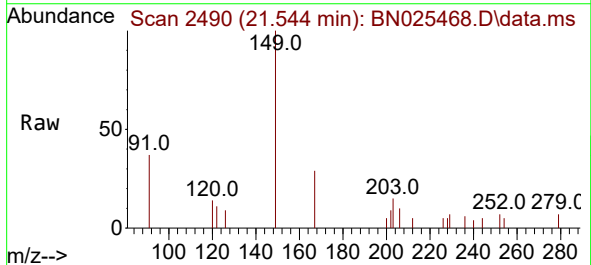
Tgt Ion:149 Resp: 2798

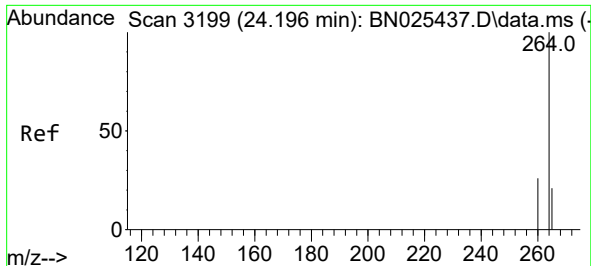
Ion Ratio Lower Upper

149 100

167 27.3 22.2 33.4

279 3.3 2.5 3.7



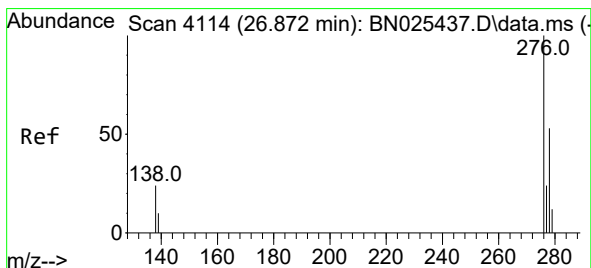
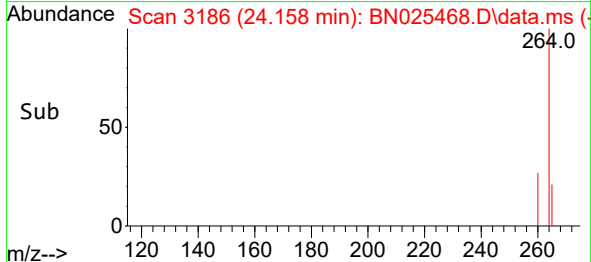
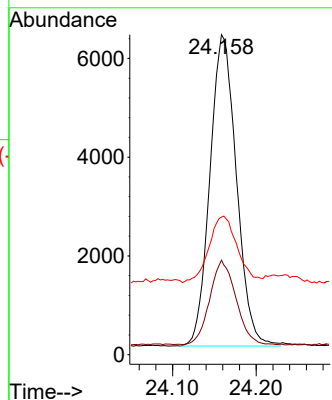
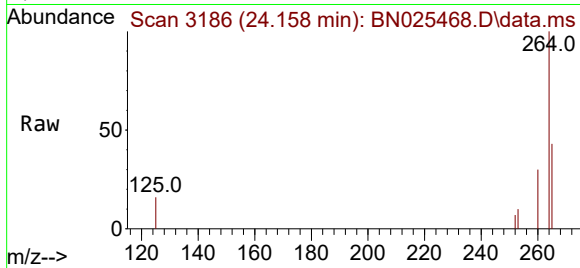


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.158 min Scan# 31  
Delta R.T. -0.020 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

Tgt Ion:264 Resp: 13887  

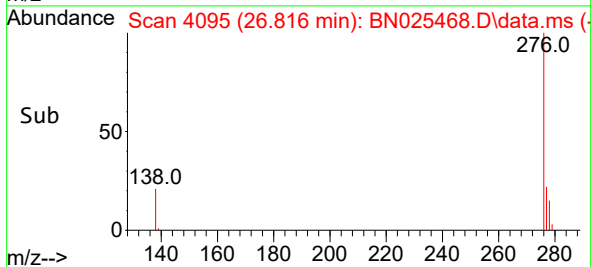
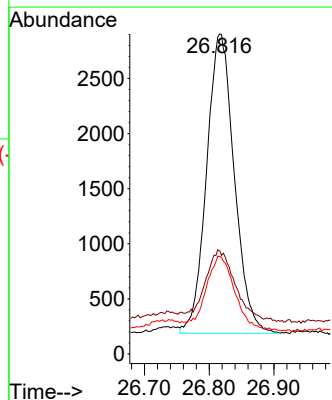
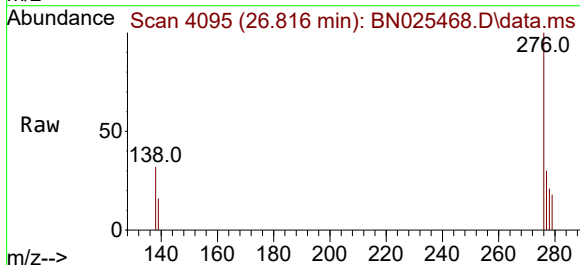
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 29.5  | 21.0  | 31.6  |
| 265 | 43.0  | 25.5  | 38.3  |

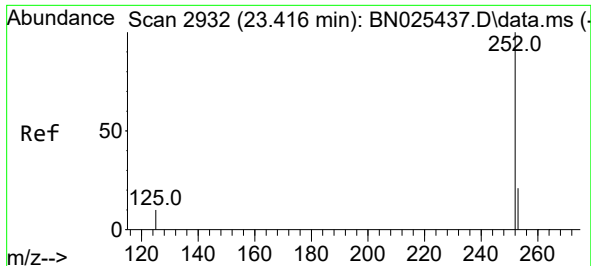


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.144 ng  
RT: 26.816 min Scan# 4095  
Delta R.T. -0.041 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:276 Resp: 8091  

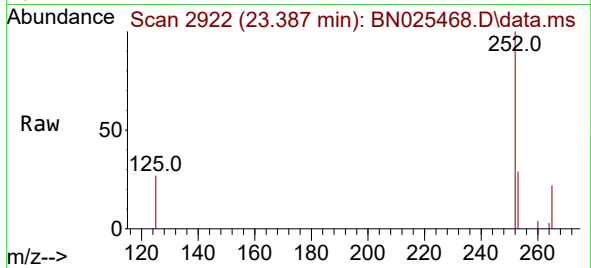
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.3  | 21.0  | 31.6  |
| 277 | 26.4  | 19.8  | 29.6  |



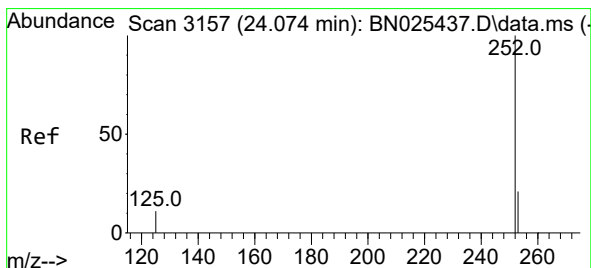
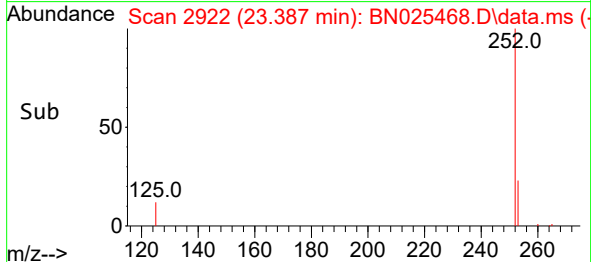
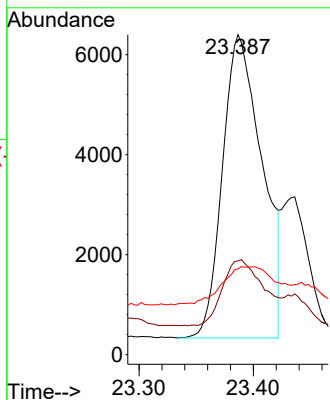


#37  
Benzo(b)fluoranthene  
Concen: 0.300 ng  
RT: 23.387 min Scan# 2932  
Delta R.T. -0.018 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

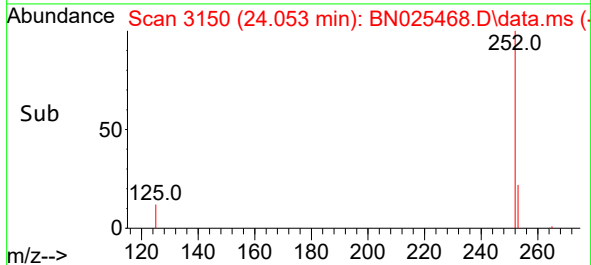
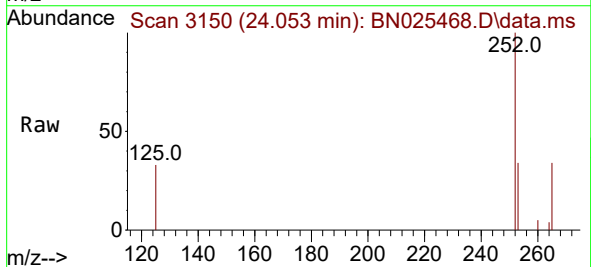
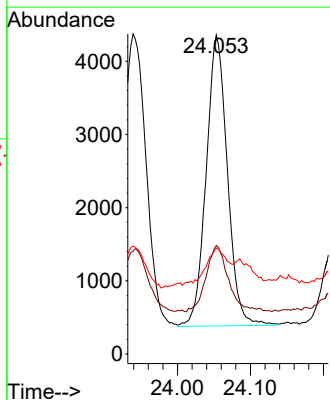


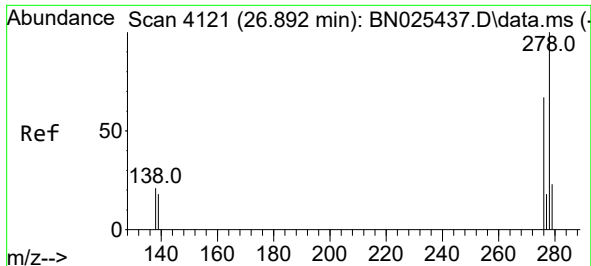
Tgt Ion:252 Resp: 14589  
Ion Ratio Lower Upper  
252 100  
253 29.3 19.0 28.4#  
125 26.8 9.4 14.2#



#39  
Benzo(a)pyrene  
Concen: 0.173 ng  
RT: 24.053 min Scan# 3150  
Delta R.T. -0.012 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:252 Resp: 8036  
Ion Ratio Lower Upper  
252 100  
253 34.0 19.5 29.3#  
125 33.3 10.2 15.4#

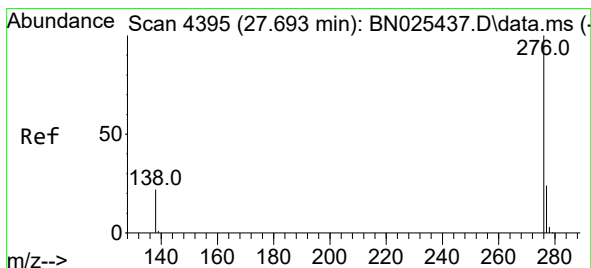
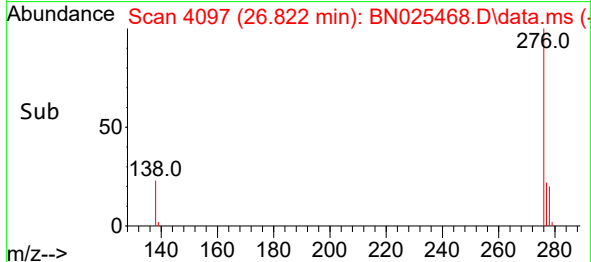
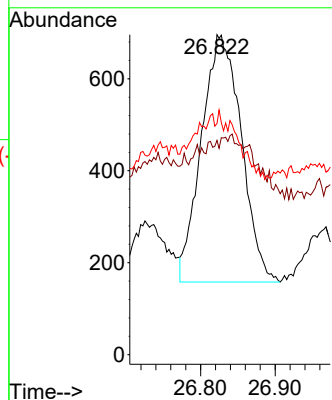
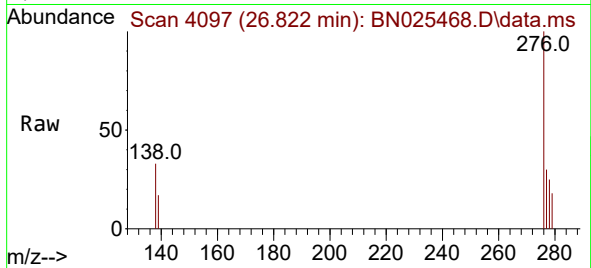




#40  
Dibenzo(a,h)anthracene  
Concen: 0.044 ng  
RT: 26.822 min Scan# 4097  
Delta R.T. -0.053 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Instrument :  
BNA\_N  
ClientSampleId :  
CB-22-K2-SO-3.5-051623

Tgt Ion:278 Resp: 1998  
Ion Ratio Lower Upper  
278 100  
139 67.0 15.0 22.4#  
279 72.3 20.1 30.1#



#41  
Benzo(g,h,i)perylene  
Concen: 0.217 ng  
RT: 27.635 min Scan# 4375  
Delta R.T. -0.041 min  
Lab File: BN025468.D  
Acq: 18 May 2023 00:04

Tgt Ion:276 Resp: 10303  
Ion Ratio Lower Upper  
276 100  
277 29.1 19.6 29.4  
138 30.7 19.0 28.6#

