

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051123\  
 Data File : BN025426.D  
 Acq On : 12 May 2023 06:51  
 Operator : CG/JU  
 Sample : 02722-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

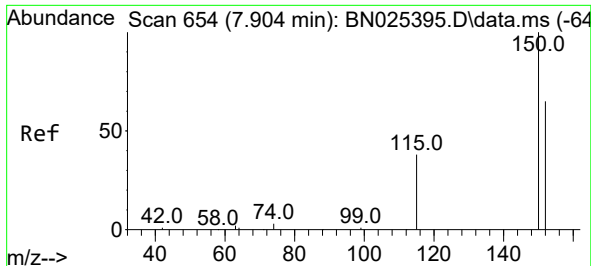
Instrument :  
 BNA\_N  
 ClientSampleId :  
 CO-72533

Quant Time: May 12 07:21:28 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 12 00:57:16 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.897  | 152  | 7397     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.696 | 136  | 28484    | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.544 | 164  | 80317    | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 17.323 | 188  | 44235    | 0.400 | ng    | # 0.03   |
| 29) Chrysene-d12              | 21.500 | 240  | 30060    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.910 | 264  | 27636    | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.456  | 112  | 714      | 0.042 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.095  | 99   | 536      | 0.023 | ng    | 0.01     |
| 8) Nitrobenzene-d5            | 9.020  | 82   | 3046     | 0.132 | ng    | -0.06    |
| 11) 2-Methylnaphthalene-d10   | 12.268 | 152  | 7647     | 0.204 | ng    | -0.04    |
| 14) 2,4,6-Tribromophenol      | 16.057 | 330  | 407      | 0.009 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.208 | 172  | 1365     | 0.005 | ng    | 0.03     |
| 27) Fluoranthene-d10          | 19.368 | 212  | 4467     | 0.044 | ng    | 0.03     |
| 31) Terphenyl-d14             | 19.945 | 244  | 13464    | 0.186 | ng    | 0.02     |
| Target Compounds              |        |      |          |       |       |          |
| 3) n-Nitrosodimethylamine     | 3.614  | 42   | 505      | 0.046 | ng    | # 6      |
| 6) bis(2-Chloroethyl)ether    | 7.362  | 93   | 820      | 0.046 | ng    | # 1      |
| 9) Naphthalene                | 10.750 | 128  | 131455   | 1.832 | ng    | # 96     |
| 12) 2-Methylnaphthalene       | 12.362 | 142  | 165524   | 3.337 | ng    | # 95     |
| 16) Acenaphthylene            | 14.266 | 152  | 177537   | 0.476 | ng    | # 1      |
| 17) Acenaphthene              | 14.609 | 154  | 18510    | 0.084 | ng    | # 4      |
| 18) Fluorene                  | 15.603 | 166  | 140937   | 0.482 | ng    | # 58     |
| 20) 4,6-Dinitro-2-methylph... | 15.735 | 198  | 28830    | 4.995 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 16.541 | 248  | 24641    | 0.988 | ng    | # 1      |
| 23) Atrazine                  | 16.752 | 200  | 54411    | 2.688 | ng    | # 1      |
| 24) Pentachlorophenol         | 17.038 | 266  | 47700    | 3.246 | ng    | # 24     |
| 25) Phenanthrene              | 17.373 | 178  | 1179660  | 9.852 | ng    | # 84     |
| 26) Anthracene                | 17.534 | 178  | 232483   | 2.002 | ng    | # 1      |
| 28) Fluoranthene              | 19.397 | 202  | 122101   | 0.880 | ng    | # 61     |
| 30) Pyrene                    | 19.747 | 202  | 32068    | 0.253 | ng    | # 55     |
| 32) Benzo(a)anthracene        | 21.518 | 228  | 19028    | 0.186 | ng    | # 1      |
| 33) Chrysene                  | 21.607 | 228  | 5804     | 0.058 | ng    | # 1      |
| 34) Bis(2-ethylhexyl)phtha... | 21.383 | 149  | 36658    | 0.371 | ng    | # 53     |
| 39) Benzo(a)pyrene            | 23.805 | 252  | 2002     | 0.023 | ng    | # 1      |

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

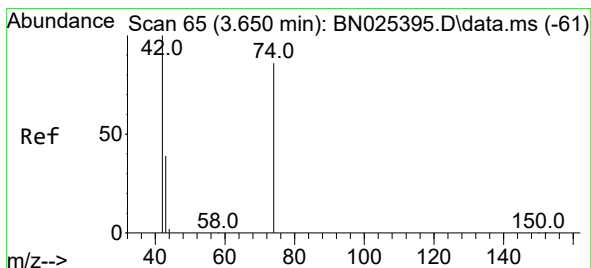
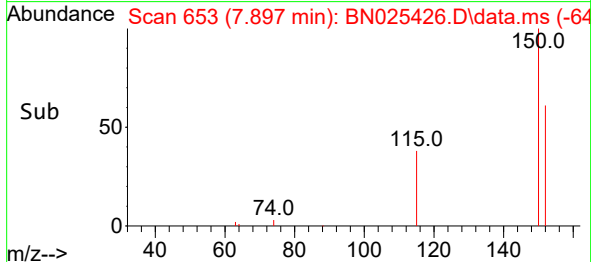
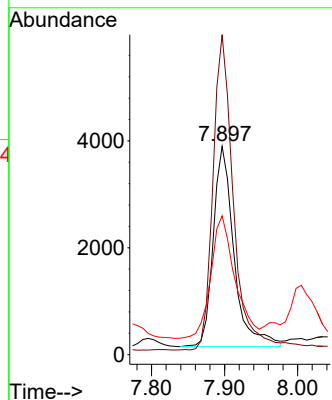
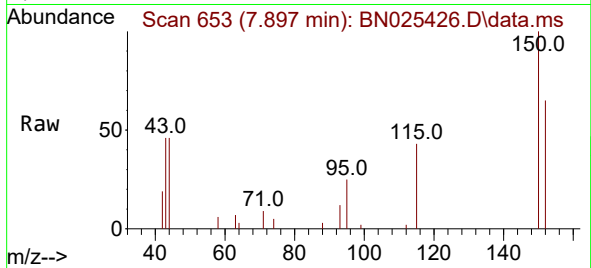




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.897 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

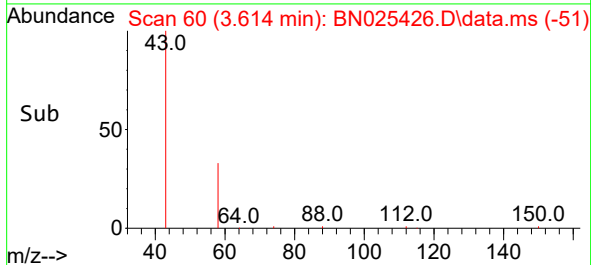
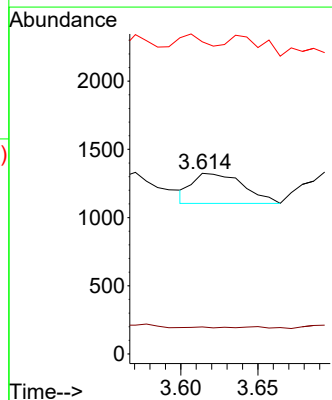
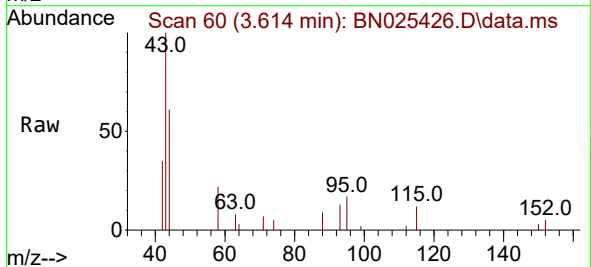
Instrument :  
BNA\_N  
ClientSampleId :  
CO-72533

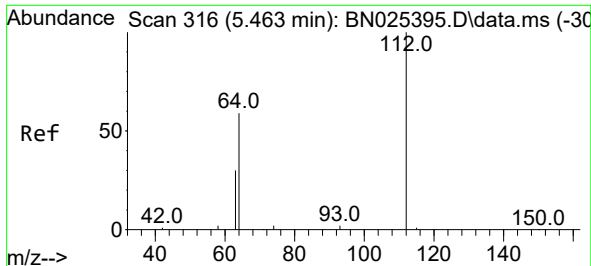
Tgt Ion:152 Resp: 7397  
Ion Ratio Lower Upper  
152 100  
150 153.6 121.4 182.2  
115 66.6 50.6 76.0



#3  
n-Nitrosodimethylamine  
Concen: 0.046 ng  
RT: 3.614 min Scan# 60  
Delta R.T. -0.036 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion: 42 Resp: 505  
Ion Ratio Lower Upper  
42 100  
74 1.0 82.2 123.4#  
44 20.6 7.8 11.8#

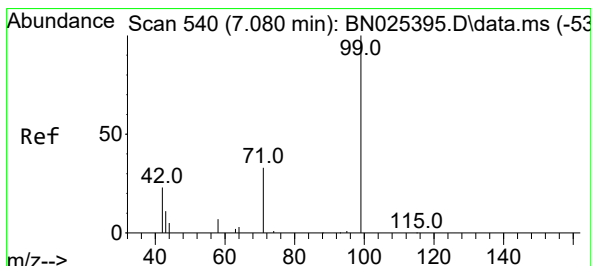
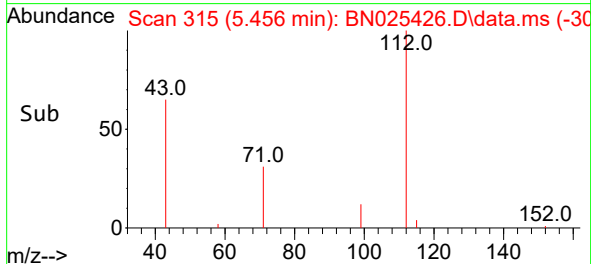
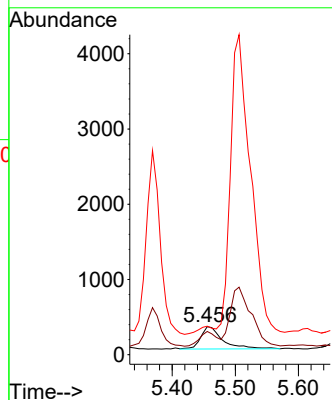
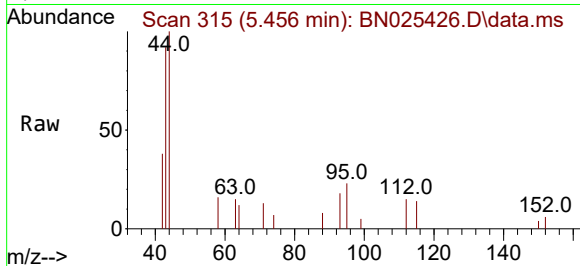




#4  
2-Fluorophenol  
Concen: 0.042 ng  
RT: 5.456 min Scan# 316  
Delta R.T. -0.007 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

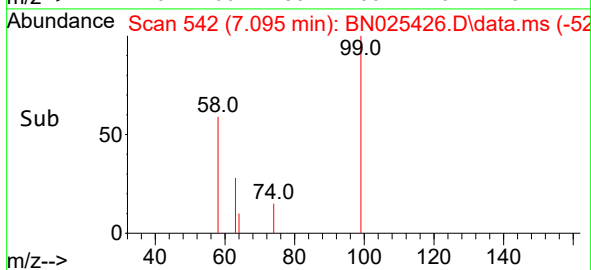
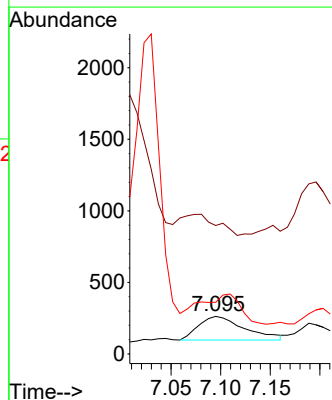
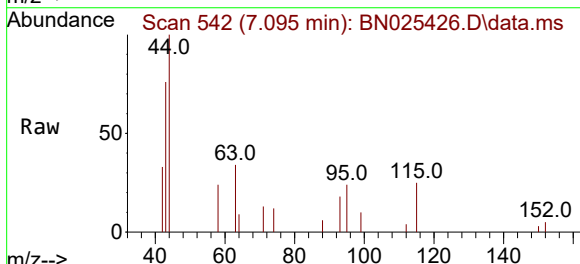
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BNA\_N  
ClientSampleId :  
CO-72533

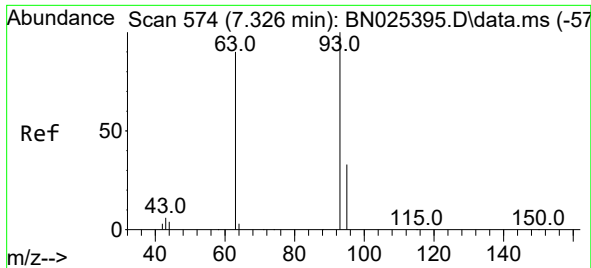
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Ion Ratio Lower Upper  
112 100  
64 51.0 51.9 77.9#  
63 0.0 27.4 41.2#



#5  
Phenol-d6  
Concen: 0.023 ng  
RT: 7.095 min Scan# 542  
Delta R.T. 0.015 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion: 99 Resp: 536  
Ion Ratio Lower Upper  
99 100  
42 62.1 23.5 35.3#  
71 0.0 28.1 42.1#

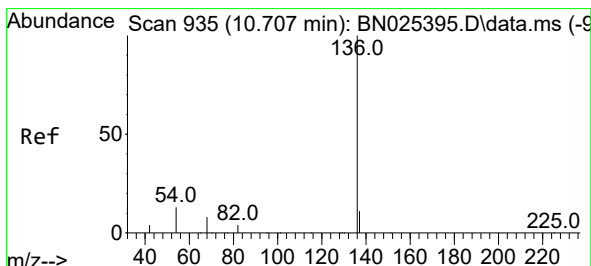
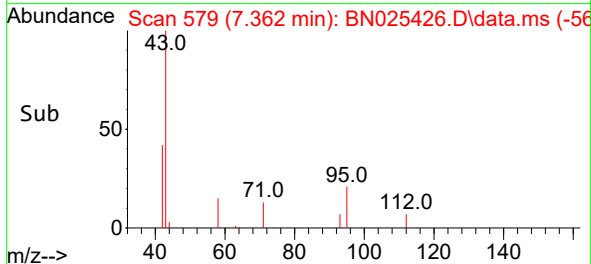
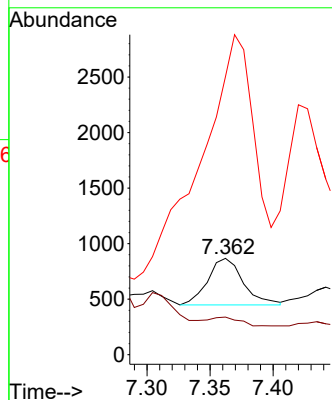
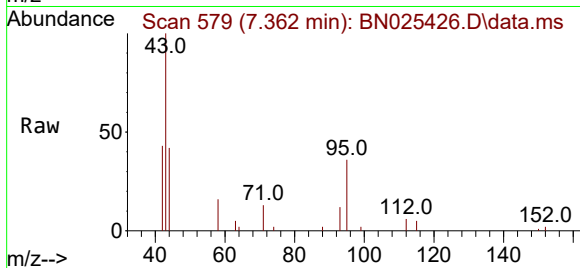




#6  
bis(2-Chloroethyl)ether  
Concen: 0.046 ng  
RT: 7.362 min Scan# 51  
Delta R.T. 0.036 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

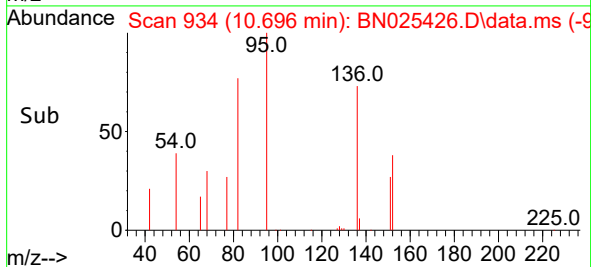
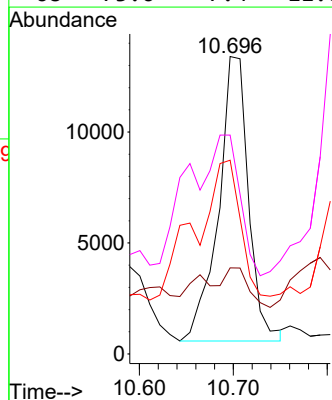
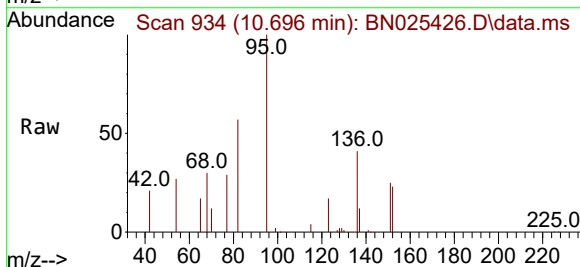
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ClientSampleId :  
CO-72533

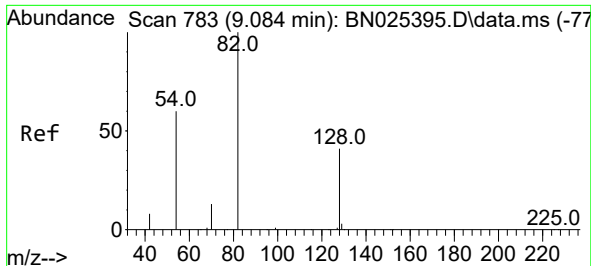
Tgt Ion: 93 Resp: 820  
Ion Ratio Lower Upper  
93 100  
63 16.2 71.3 106.9#  
95 802.2 31.0 46.4#



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.696 min Scan# 934  
Delta R.T. -0.010 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion:136 Resp: 28484  
Ion Ratio Lower Upper  
136 100  
137 28.9 9.1 13.7#  
54 65.1 11.2 16.8#  
68 73.6 7.4 11.0#

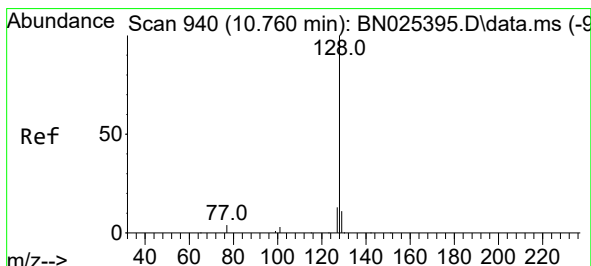
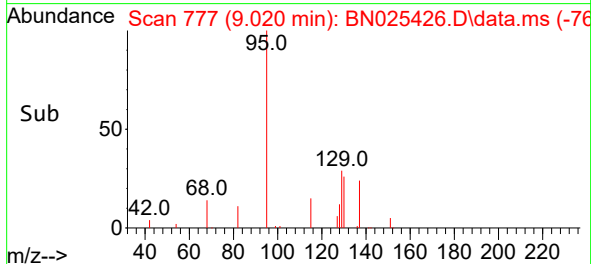
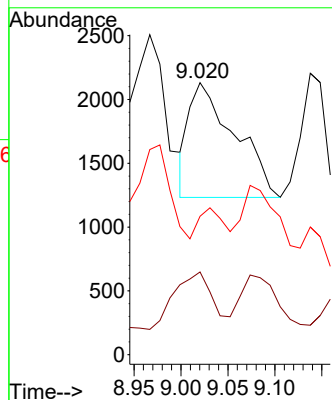
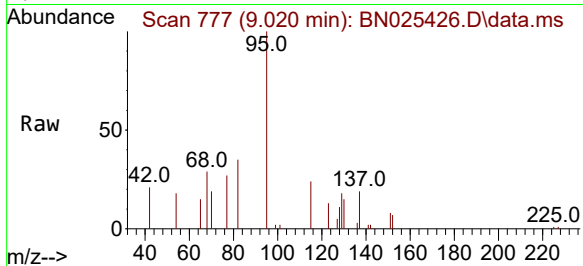




#8  
Nitrobenzene-d5  
Concen: 0.132 ng  
RT: 9.020 min Scan# 71  
Delta R.T. -0.064 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

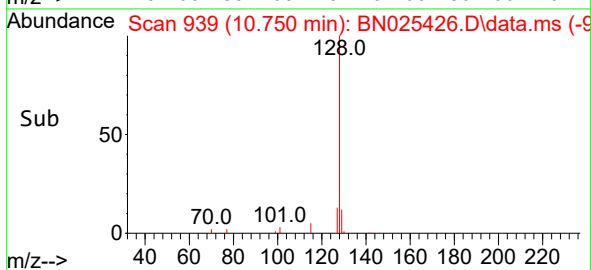
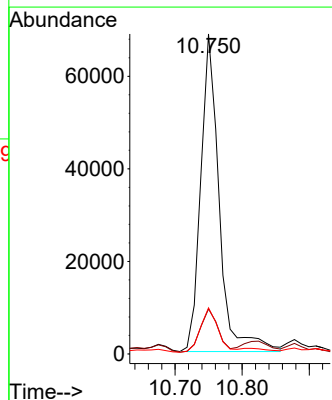
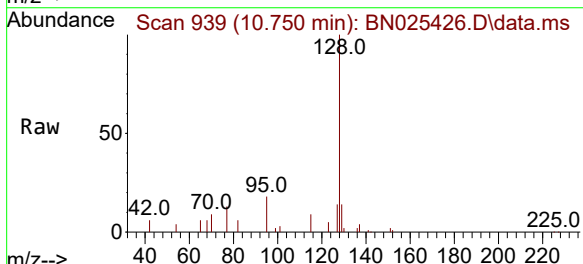
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ClientSampleId :  
CO-72533

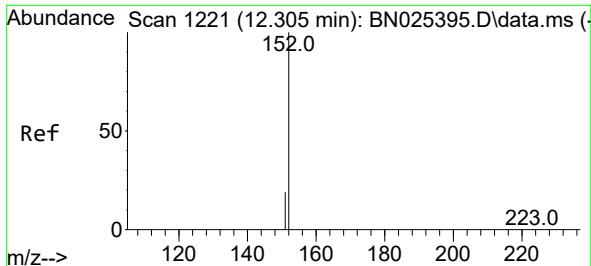
Tgt Ion: 82 Resp: 3046  
Ion Ratio Lower Upper  
82 100  
128 30.4 35.8 53.8#  
54 50.9 50.4 75.6



#9  
Naphthalene  
Concen: 1.832 ng  
RT: 10.750 min Scan# 939  
Delta R.T. -0.010 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion: 128 Resp: 131455  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.3 13.9#  
127 14.4 10.8 16.2

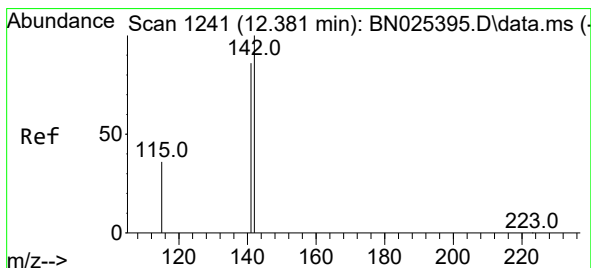
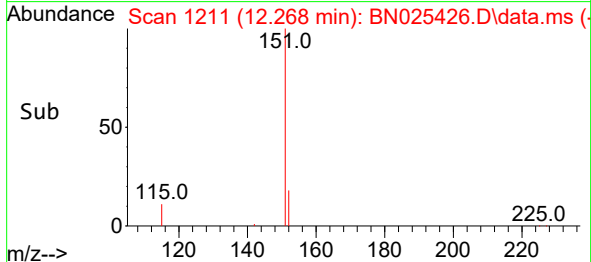
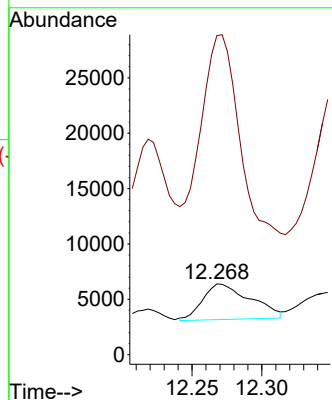
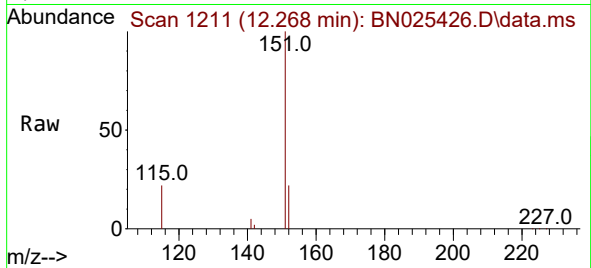




#11  
2-Methylnaphthalene-d10  
Concen: 0.204 ng  
RT: 12.268 min Scan# 11  
Delta R.T. -0.038 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

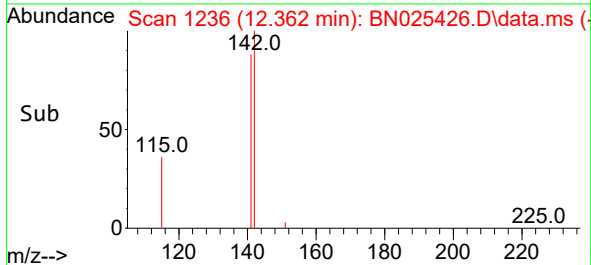
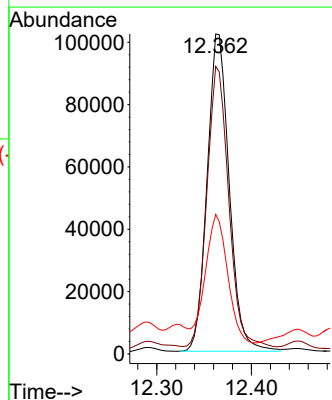
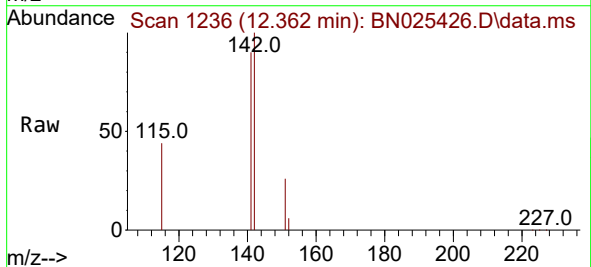
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CO-72533

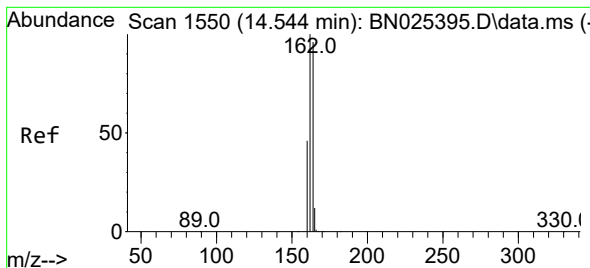
Tgt Ion:152 Resp: 7647  
Ion Ratio Lower Upper  
152 100  
151 431.5 16.1 24.1#



#12  
2-Methylnaphthalene  
Concen: 3.337 ng  
RT: 12.362 min Scan# 1236  
Delta R.T. -0.019 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion:142 Resp: 165524  
Ion Ratio Lower Upper  
142 100  
141 89.9 69.3 103.9  
115 43.6 30.2 45.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.544 min Scan# 1550

Delta R.T. 0.000 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

Instrument :

BNA\_N

ClientSampleId :

CO-72533

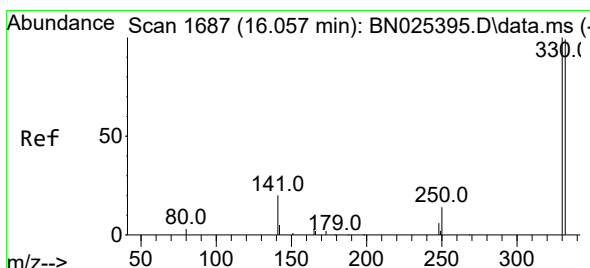
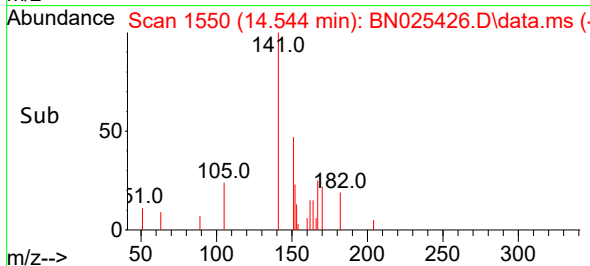
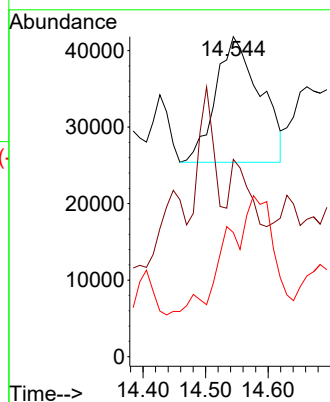
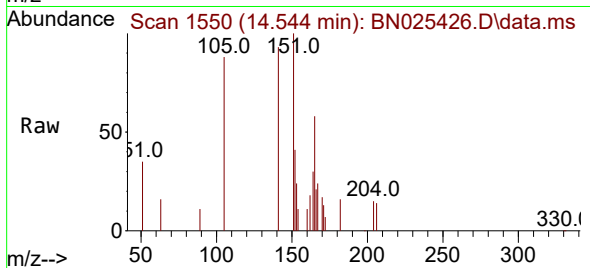
Tgt Ion:164 Resp: 80317

Ion Ratio Lower Upper

164 100

162 61.6 83.2 124.8#

160 38.8 38.8 58.2



#14

2,4,6-Tribromophenol

Concen: 0.009 ng

RT: 16.057 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

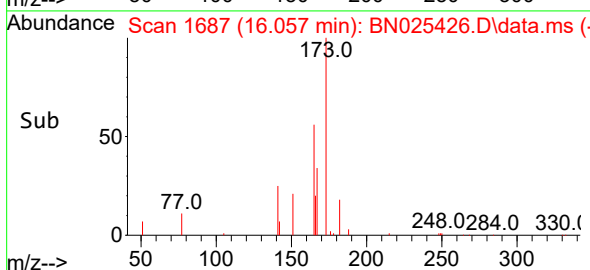
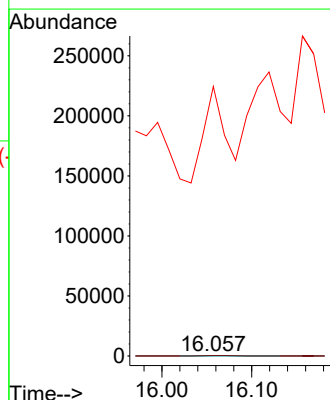
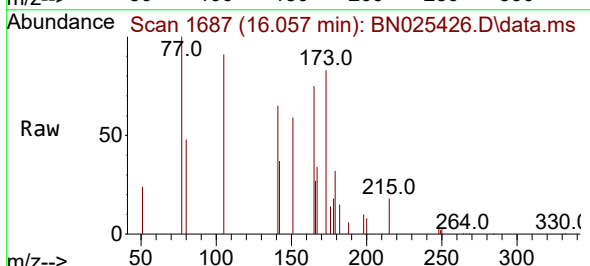
Tgt Ion:330 Resp: 407

Ion Ratio Lower Upper

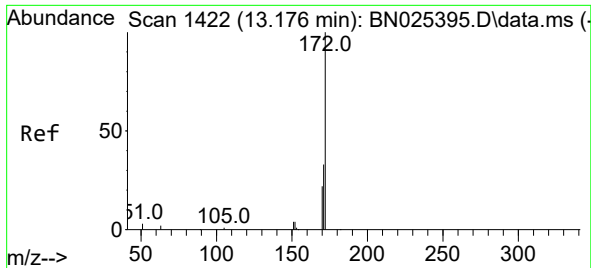
330 100

332 94.1 78.0 117.0

141 32217.2 30.2 45.2#



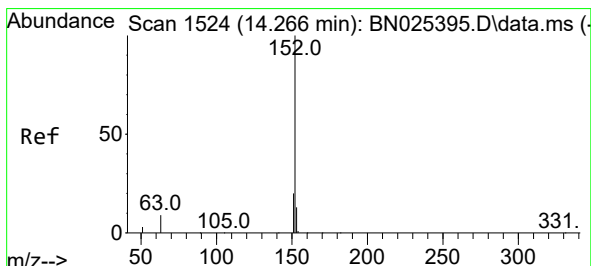
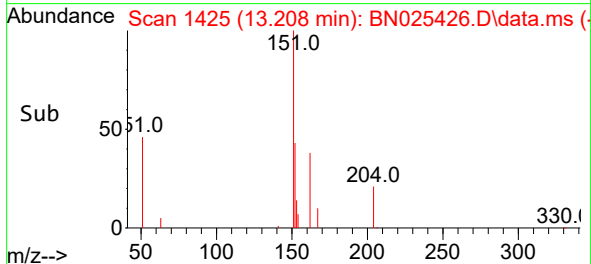
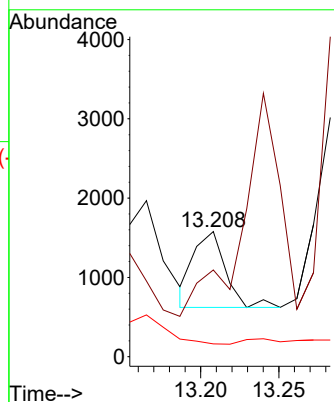
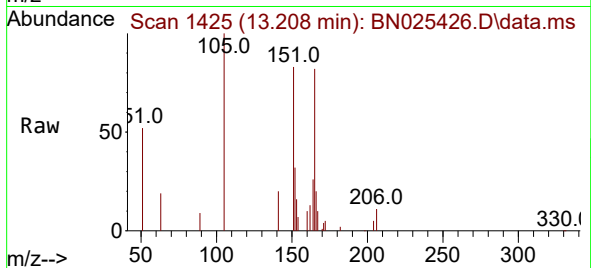




#15  
2-Fluorobiphenyl  
Concen: 0.005 ng  
RT: 13.208 min Scan# 1422  
Delta R.T. 0.032 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

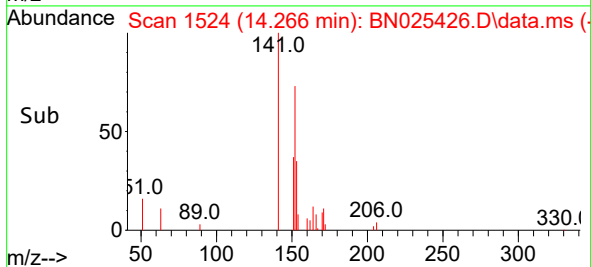
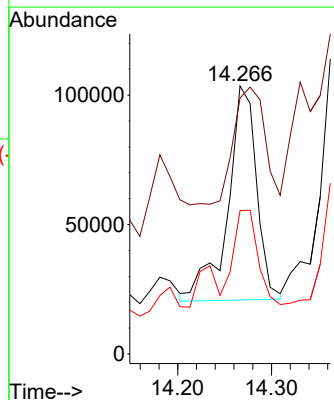
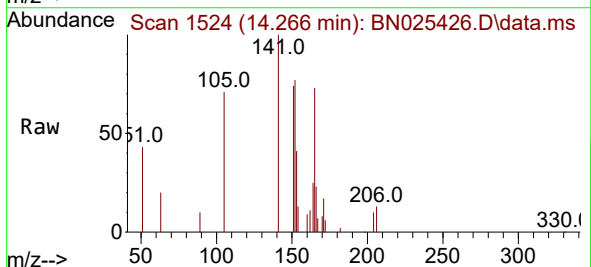
Instrument :  
BNA\_N  
ClientSampleId :  
CO-72533

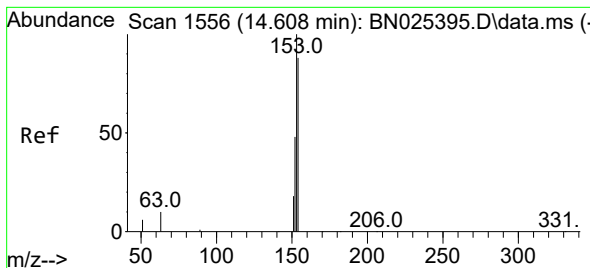
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Ion Ratio Lower Upper  
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171 69.3 26.7 40.1#  
170 10.3 17.8 26.8#



#16  
Acenaphthylene  
Concen: 0.476 ng  
RT: 14.266 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion:152 Resp: 177537  
Ion Ratio Lower Upper  
152 100  
151 78.8 15.9 23.9#  
153 56.3 10.7 16.1#





#17

Acenaphthene

Concen: 0.084 ng

RT: 14.609 min Scan# 1556

Delta R.T. 0.000 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

Instrument :

BNA\_N

ClientSampleId :

CO-72533

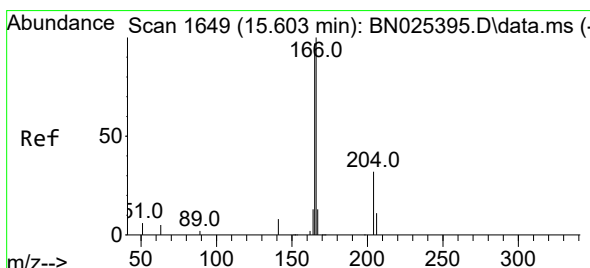
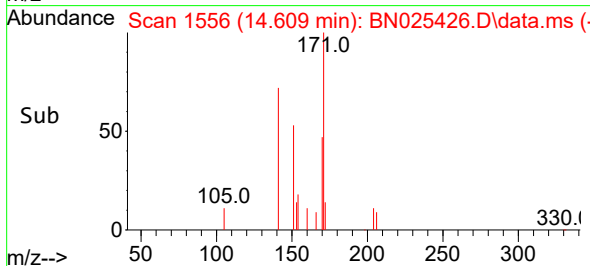
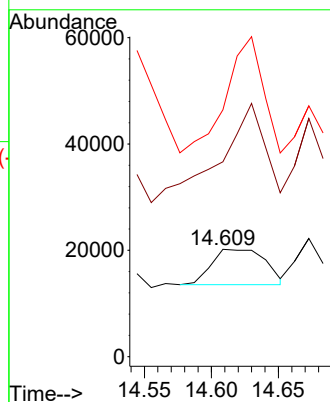
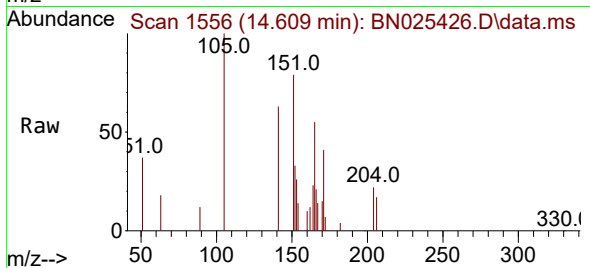
Tgt Ion:154 Resp: 18510

Ion Ratio Lower Upper

154 100

153 0.0 91.7 137.5#

152 0.0 44.6 66.8#



#18

Fluorene

Concen: 0.482 ng

RT: 15.603 min Scan# 1649

Delta R.T. 0.000 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

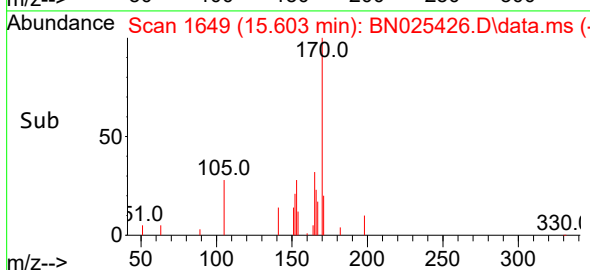
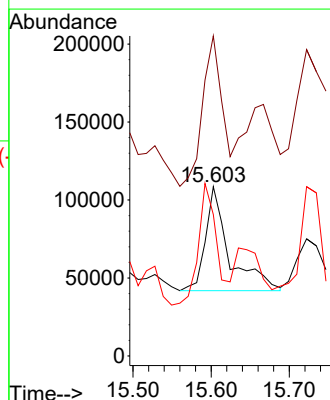
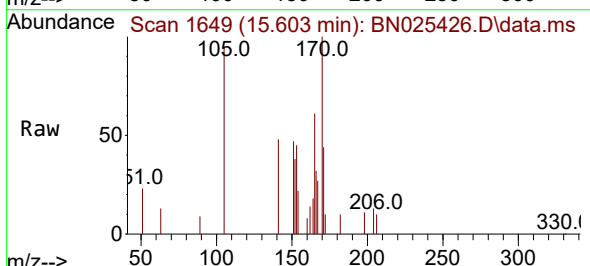
Tgt Ion:166 Resp: 140937

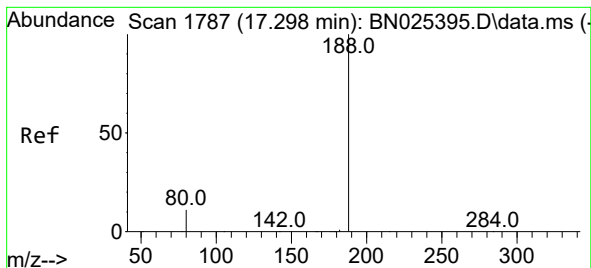
Ion Ratio Lower Upper

166 100

165 119.1 78.7 118.1#

167 91.4 10.7 16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.323 min Scan# 1

Delta R.T. 0.025 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

Instrument :

BNA\_N

ClientSampleId :

CO-72533

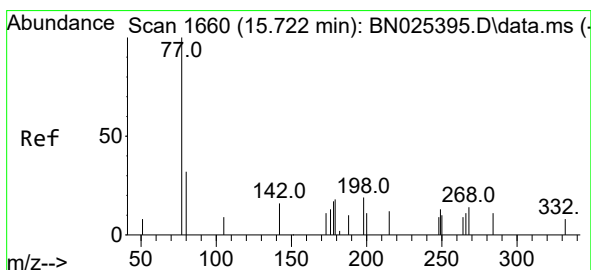
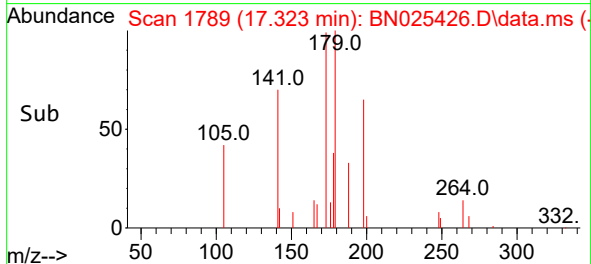
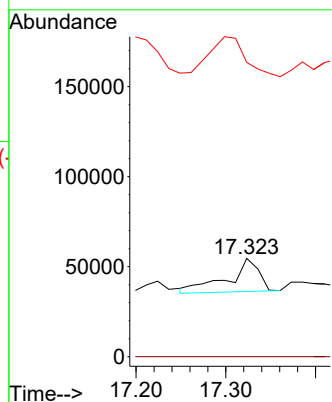
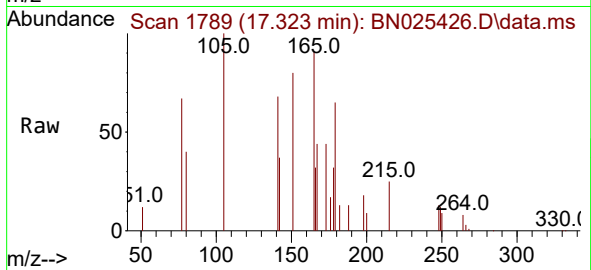
Tgt Ion:188 Resp: 44235

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 299.6 9.4 14.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 4.995 ng

RT: 15.735 min Scan# 1661

Delta R.T. 0.013 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

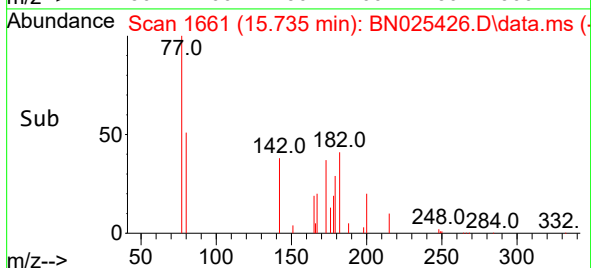
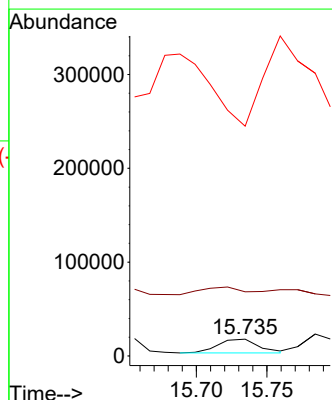
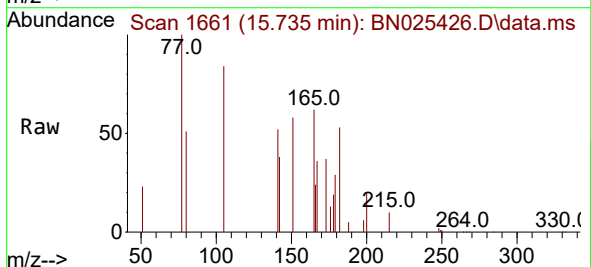
Tgt Ion:198 Resp: 28830

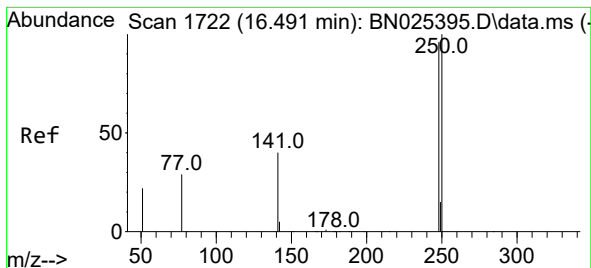
Ion Ratio Lower Upper

198 100

51 381.8 259.2 388.8

105 1365.8 112.6 168.8#

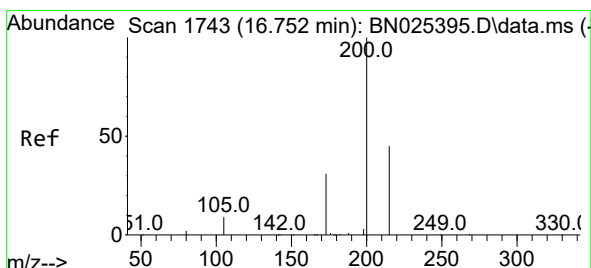
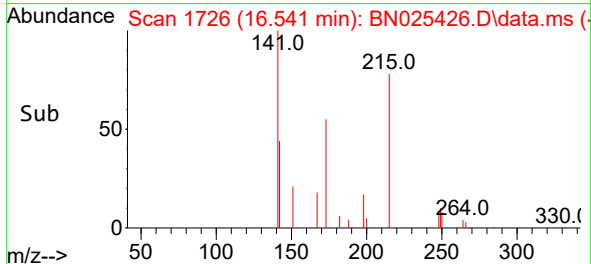
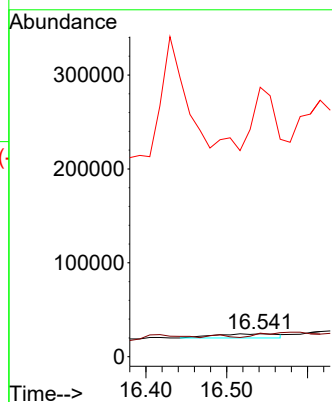
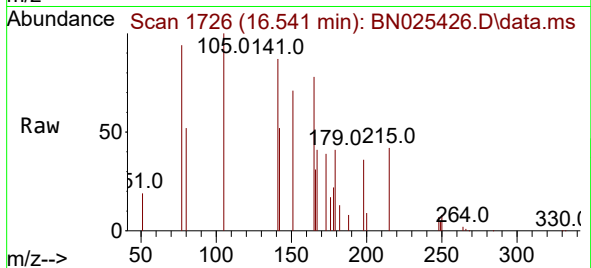




#21  
4-Bromophenyl-phenylether  
Concen: 0.988 ng  
RT: 16.541 min Scan# 1726  
Delta R.T. 0.050 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

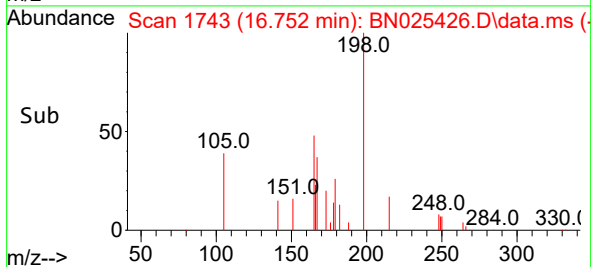
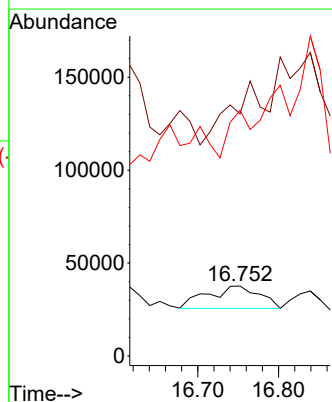
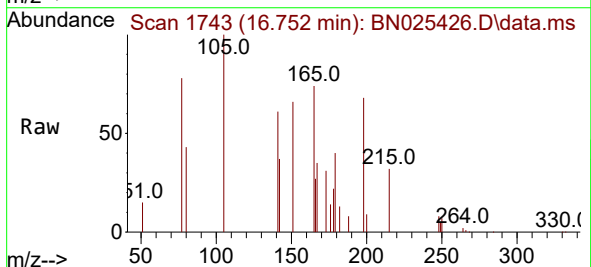
Instrument :  
BNA\_N  
ClientSampleId :  
CO-72533

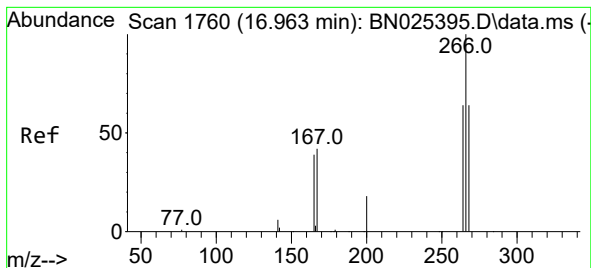
Tgt Ion:248 Resp: 24641  
Ion Ratio Lower Upper  
248 100  
250 102.3 83.1 124.7  
141 1174.2 35.0 52.6#



#23  
Atrazine  
Concen: 2.688 ng  
RT: 16.752 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion:200 Resp: 54411  
Ion Ratio Lower Upper  
200 100  
173 346.2 26.5 39.7#  
215 351.1 37.0 55.4#





#24

Pentachlorophenol

Concen: 3.246 ng

RT: 17.038 min Scan# 1766

Delta R.T. 0.075 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

Instrument :

BNA\_N

ClientSampleId :

CO-72533

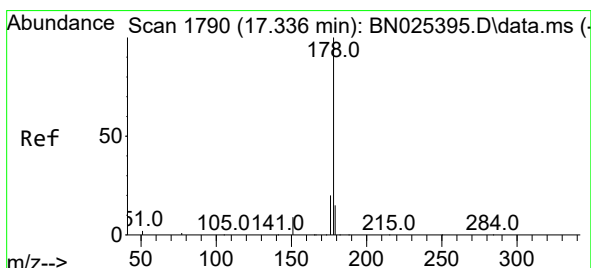
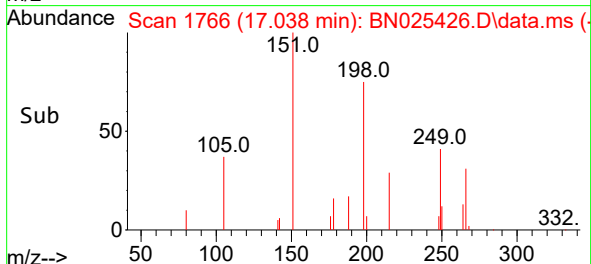
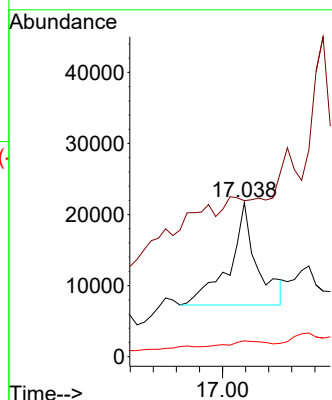
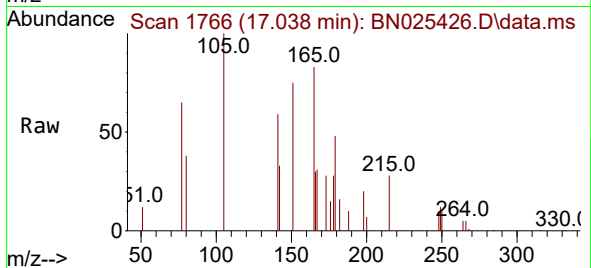
Tgt Ion:266 Resp: 47700

Ion Ratio Lower Upper

266 100

264 0.0 50.1 75.1#

268 7.5 49.3 73.9#



#25

Phenanthrene

Concen: 9.852 ng

RT: 17.373 min Scan# 1793

Delta R.T. 0.037 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

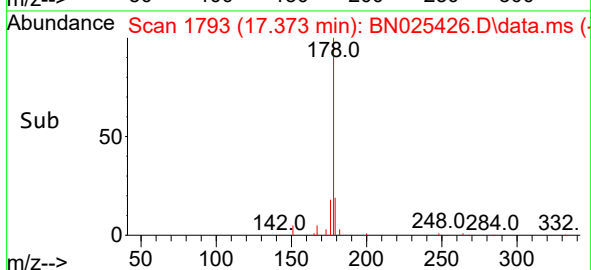
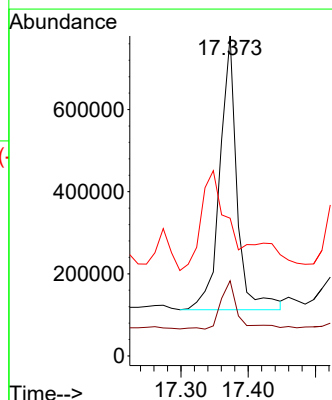
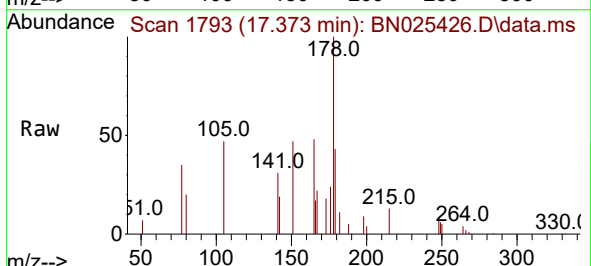
Tgt Ion:178 Resp: 1179660

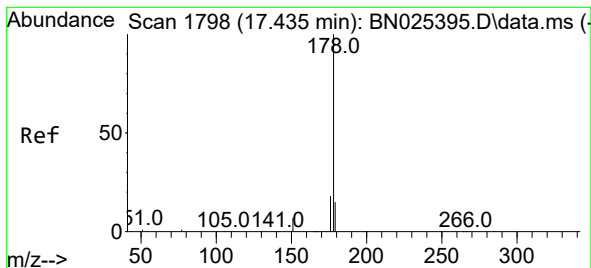
Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

179 0.0 12.1 18.1#





#26

Anthracene

Concen: 2.002 ng

RT: 17.534 min Scan# 11

Delta R.T. 0.100 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

Instrument :

BNA\_N

ClientSampleId :

CO-72533

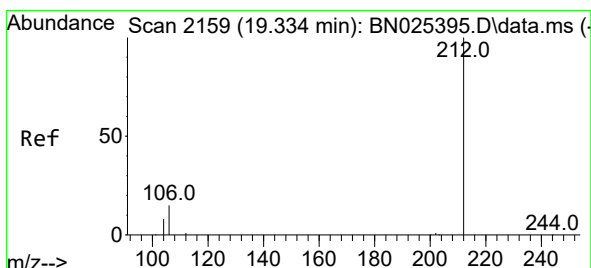
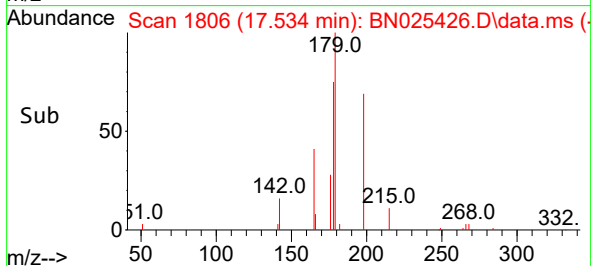
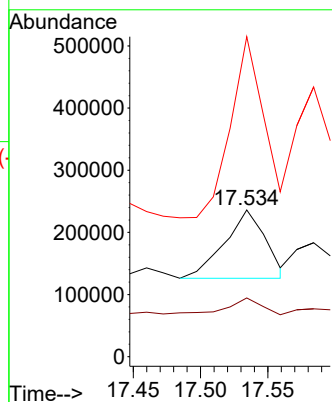
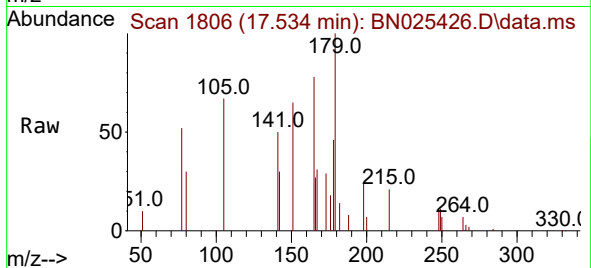
Tgt Ion:178 Resp: 232483

Ion Ratio Lower Upper

178 100

176 20.6 15.0 22.4

179 217.1 12.0 18.0#



#27

Fluoranthene-d10

Concen: 0.044 ng

RT: 19.368 min Scan# 2167

Delta R.T. 0.034 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

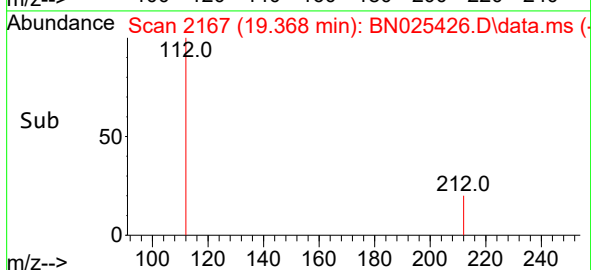
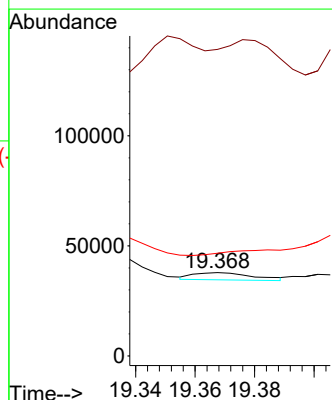
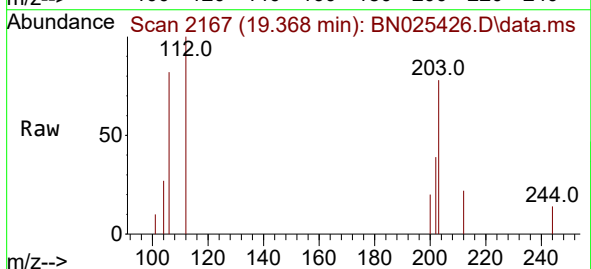
Tgt Ion:212 Resp: 4467

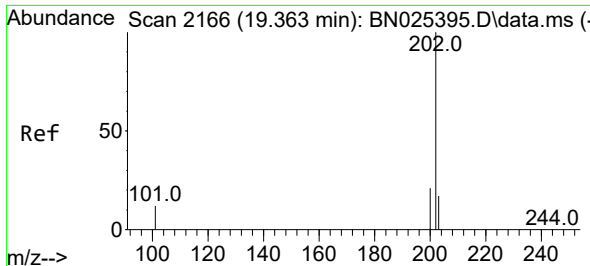
Ion Ratio Lower Upper

212 100

106 452.5 12.6 19.0#

104 0.0 7.0 10.4#

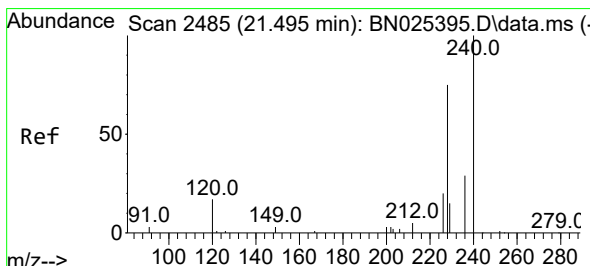
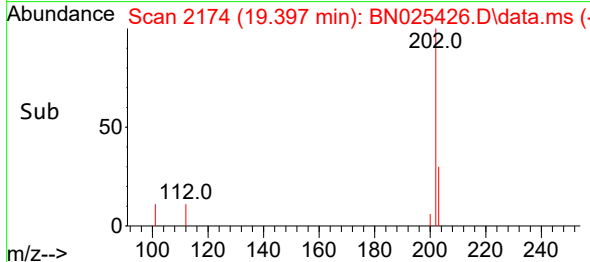
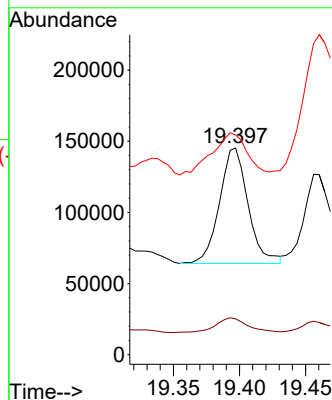
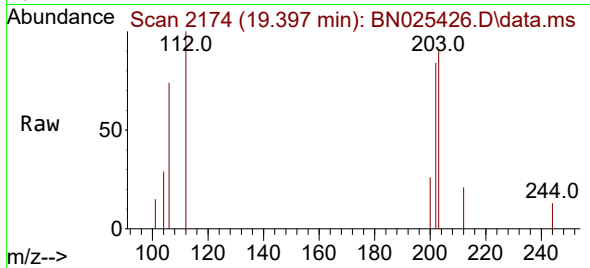




#28  
Fluoranthene  
Concen: 0.880 ng  
RT: 19.397 min Scan# 2166  
Delta R.T. 0.034 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

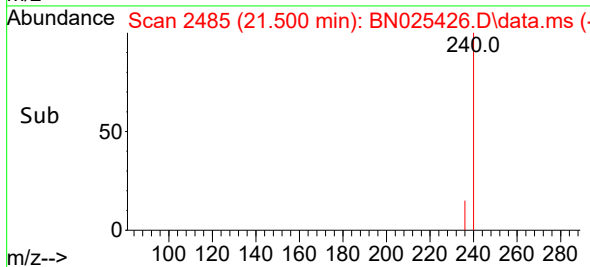
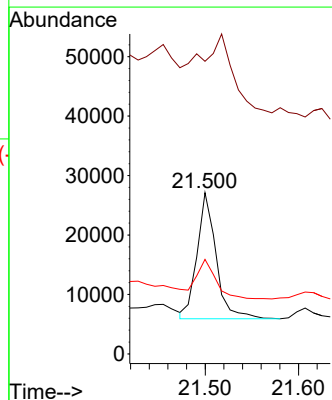
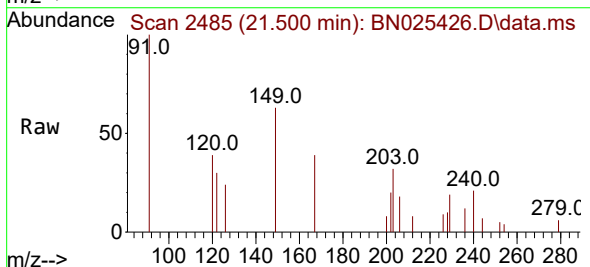
Instrument :  
BNA\_N  
ClientSampleId :  
CO-72533

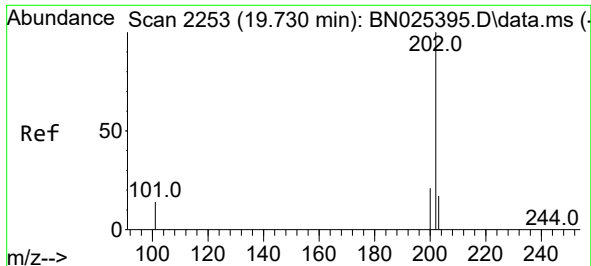
Tgt Ion:202 Resp: 122101  
Ion Ratio Lower Upper  
202 100  
101 14.4 9.8 14.8  
203 44.6 13.8 20.6#



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.500 min Scan# 2485  
Delta R.T. 0.005 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion:240 Resp: 30060  
Ion Ratio Lower Upper  
240 100  
120 181.6 19.0 28.6#  
236 58.7 25.0 37.6#

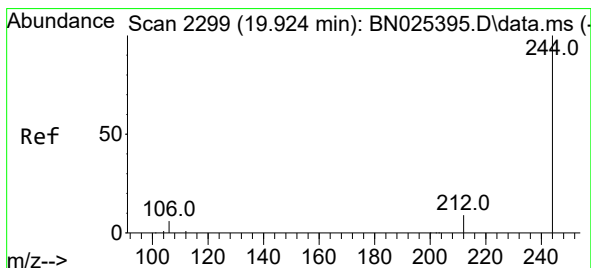
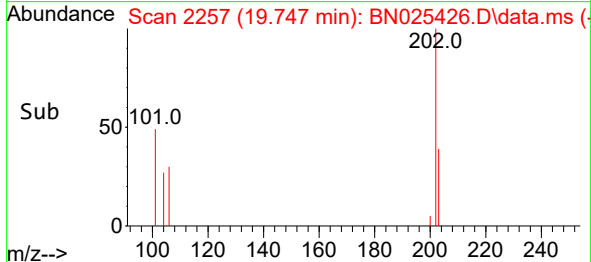
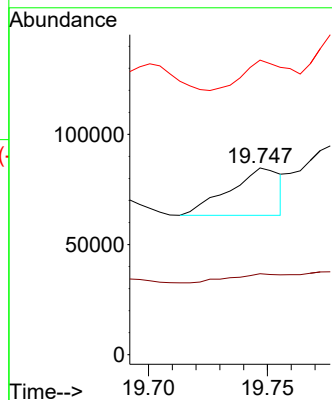
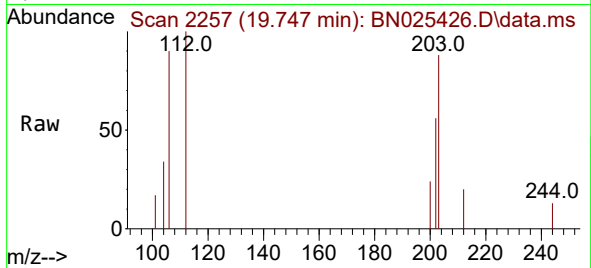




#30  
Pyrene  
Concen: 0.253 ng  
RT: 19.747 min Scan# 21  
Delta R.T. 0.017 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

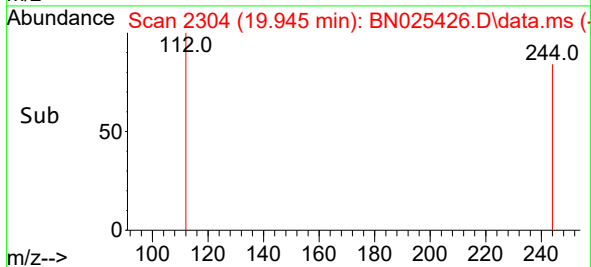
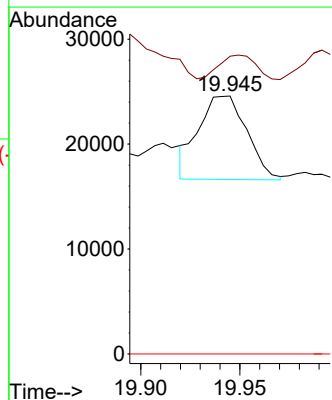
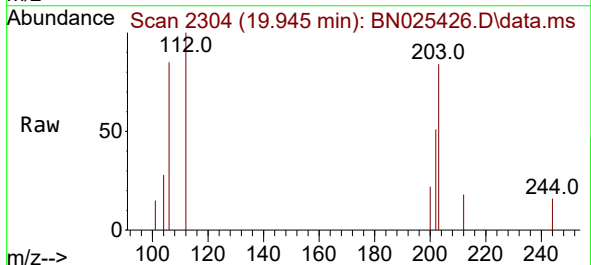
Instrument :  
BNA\_N  
ClientSampleId :  
CO-72533

Tgt Ion:202 Resp: 32068  
Ion Ratio Lower Upper  
202 100  
200 18.7 16.8 25.2  
203 58.3 14.4 21.6#

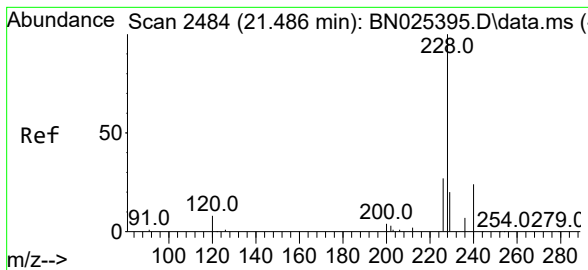


#31  
Terphenyl-d14  
Concen: 0.186 ng  
RT: 19.945 min Scan# 2304  
Delta R.T. 0.021 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Tgt Ion:244 Resp: 13464  
Ion Ratio Lower Upper  
244 100  
212 115.5 7.5 11.3#  
122 0.0 0.0 0.0







#32

Benzo(a)anthracene

Concen: 0.186 ng

RT: 21.518 min Scan# 2487

Delta R.T. 0.032 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

Instrument :

BNA\_N

ClientSampleId :

CO-72533

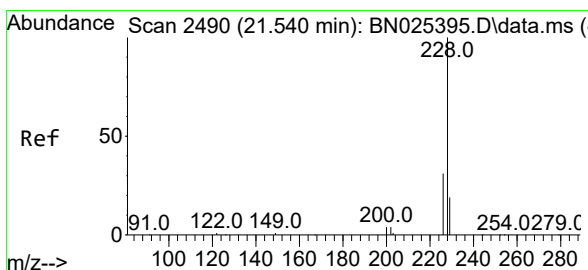
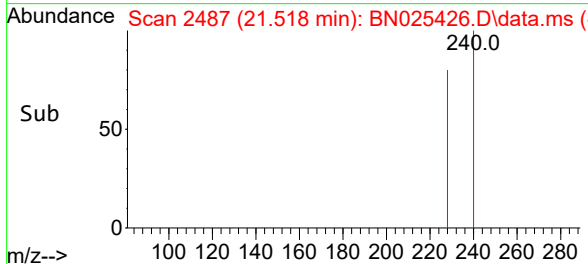
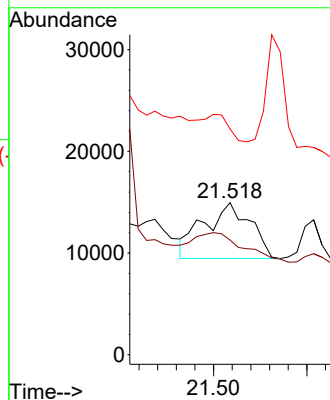
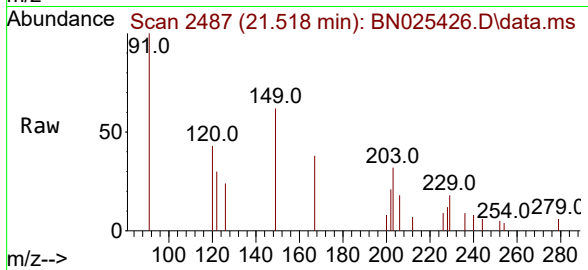
Tgt Ion:228 Resp: 19028

Ion Ratio Lower Upper

228 100

226 75.4 23.2 34.8#

229 148.4 18.2 27.2#



#33

Chrysene

Concen: 0.058 ng

RT: 21.607 min Scan# 2497

Delta R.T. 0.068 min

Lab File: BN025426.D

Acq: 12 May 2023 06:51

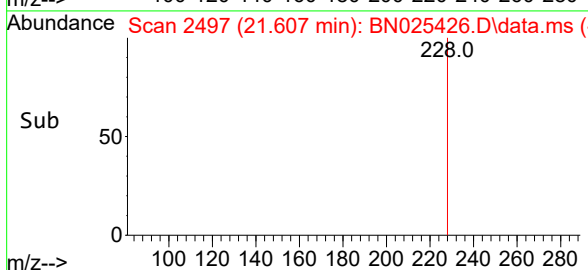
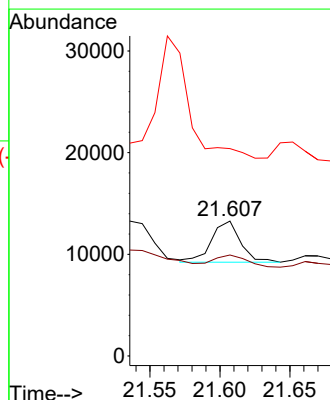
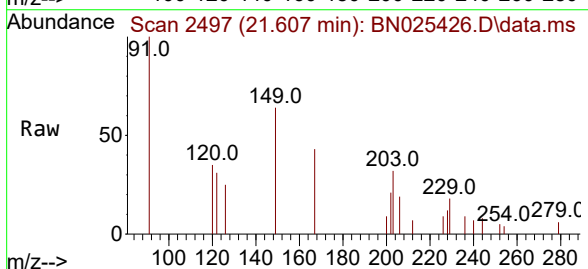
Tgt Ion:228 Resp: 5804

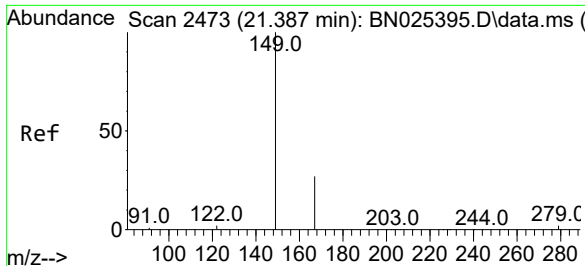
Ion Ratio Lower Upper

228 100

226 74.9 25.8 38.6#

229 153.6 17.9 26.9#

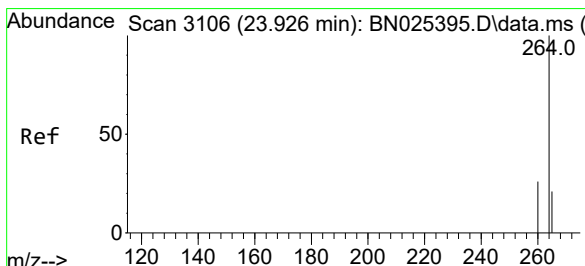
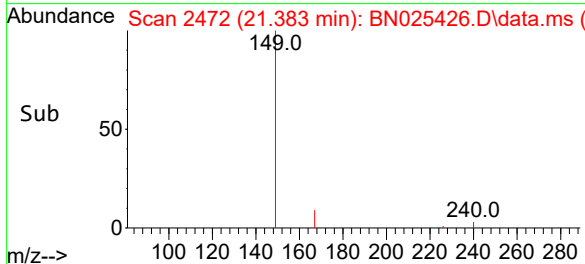
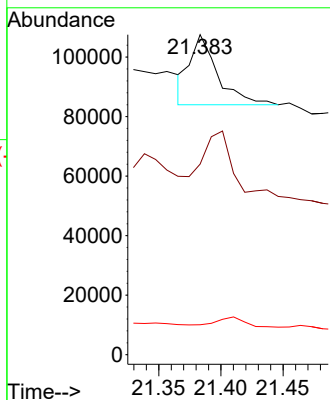
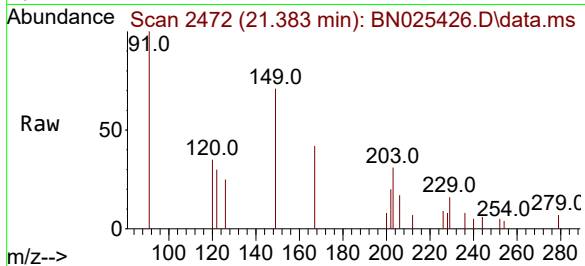




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.371 ng  
 RT: 21.383 min Scan# 2473  
 Delta R.T. -0.004 min  
 Lab File: BN025426.D  
 Acq: 12 May 2023 06:51

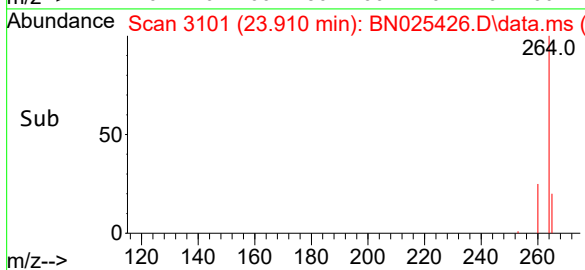
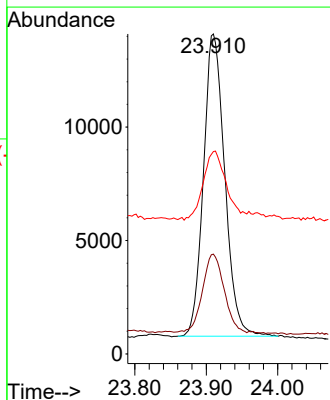
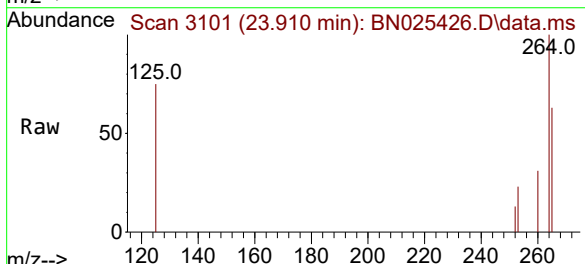
Instrument :  
 BNA\_N  
 ClientSampleId :  
 CO-72533

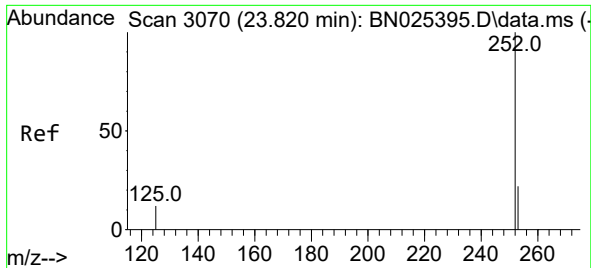
Tgt Ion:149 Resp: 36658  
 Ion Ratio Lower Upper  
 149 100  
 167 0.0 21.7 32.5#  
 279 0.0 3.0 4.4#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.910 min Scan# 3101  
 Delta R.T. -0.016 min  
 Lab File: BN025426.D  
 Acq: 12 May 2023 06:51

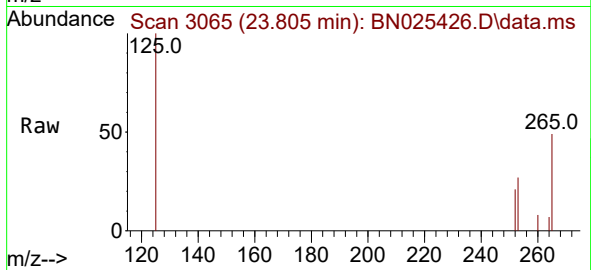
Tgt Ion:264 Resp: 27636  
 Ion Ratio Lower Upper  
 264 100  
 260 31.2 23.5 35.3  
 265 63.3 50.9 76.3





#39  
Benzo(a)pyrene  
Concen: 0.023 ng  
RT: 23.805 min Scan# 30  
Delta R.T. -0.016 min  
Lab File: BN025426.D  
Acq: 12 May 2023 06:51

Instrument :  
BNA\_N  
ClientSampleId :  
CO-72533



Tgt Ion:252 Resp: 2002  
Ion Ratio Lower Upper  
252 100  
253 126.7 25.4 38.2#  
125 477.3 23.5 35.3#

