

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061523\  
 Data File : BN025859.D  
 Acq On : 15 Jun 2023 15:41  
 Operator : MA/JU  
 Sample : 03173-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 OW-06B-74-79-061223

Quant Time: Jun 16 01:45:51 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN053123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 01:41:46 2023  
 Response via : Initial Calibration

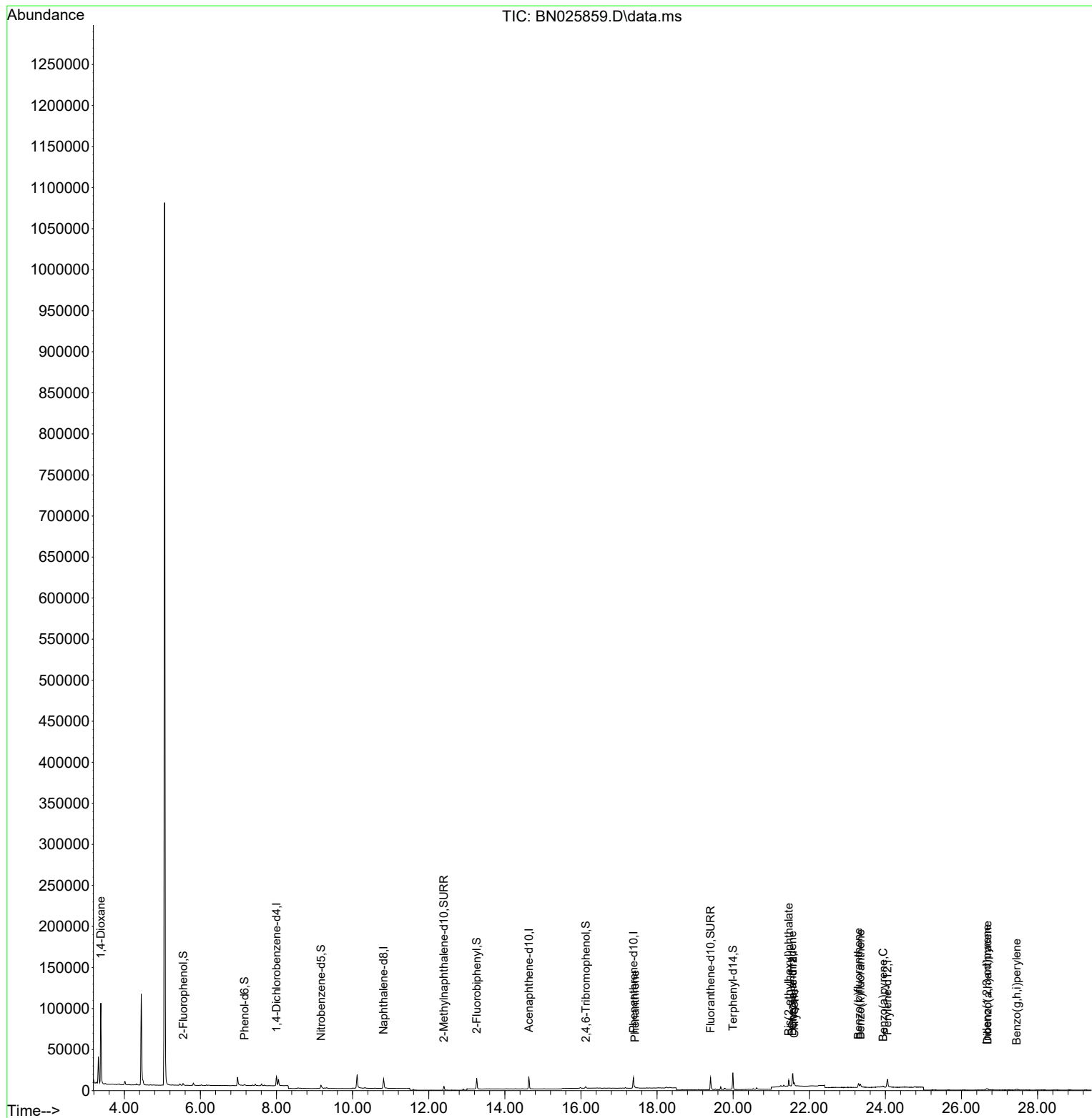
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.998  | 152  | 6246     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.814 | 136  | 16536    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.630 | 164  | 8921     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.381 | 188  | 18613    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.569 | 240  | 15052    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 24.054 | 264  | 15035    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.549  | 112  | 2031     | 0.116 | ng    | 0.01     |
| 5) Phenol-d6                  | 7.160  | 99   | 1395     | 0.065 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.170  | 82   | 4040     | 0.263 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 12.400 | 152  | 7285     | 0.306 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.127 | 330  | 1084     | 0.394 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.262 | 172  | 11784    | 0.312 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.407 | 212  | 17138    | 0.448 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.997 | 244  | 14970    | 0.410 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.383  | 88   | 63015    | 8.599 | ng    | # 93     |
| 25) Phenanthrene              | 17.418 | 178  | 1579     | 0.028 | ng    | 97       |
| 32) Benzo(a)anthracene        | 21.551 | 228  | 2739     | 0.047 | ng    | # 92     |
| 33) Chrysene                  | 21.605 | 228  | 3948     | 0.064 | ng    | # 94     |
| 34) Bis(2-ethylhexyl)phtha... | 21.462 | 149  | 7255     | 0.210 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.665 | 276  | 2946     | 0.045 | ng    | # 80     |
| 37) Benzo(b)fluoranthene      | 23.294 | 252  | 6873     | 0.116 | ng    | # 75     |
| 38) Benzo(k)fluoranthene      | 23.344 | 252  | 5816     | 0.096 | ng    | # 71     |
| 39) Benzo(a)pyrene            | 23.940 | 252  | 2944     | 0.052 | ng    | # 39     |
| 40) Dibenzo(a,h)anthracene    | 26.686 | 278  | 1926     | 0.037 | ng    | # 37     |
| 41) Benzo(g,h,i)perylene      | 27.452 | 276  | 1407     | 0.024 | ng    | # 80     |
| -----                         |        |      |          |       |       |          |

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

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Sample : 03173-09  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
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OW-06B-74-79-061223

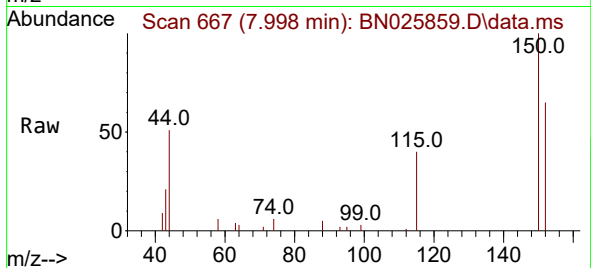
Quant Time: Jun 16 01:45:51 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN053123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 16 01:41:46 2023  
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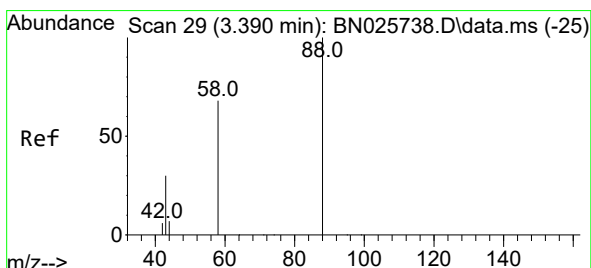
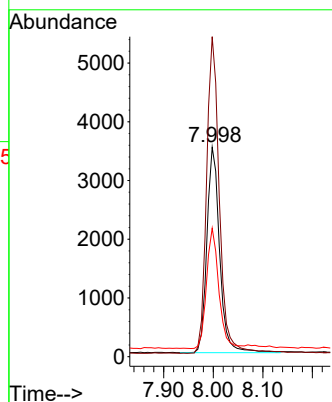
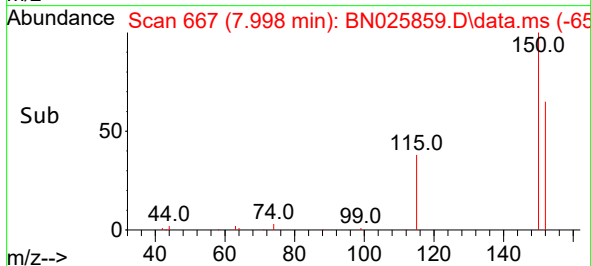


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.998 min Scan# 669  
Delta R.T. -0.000 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223

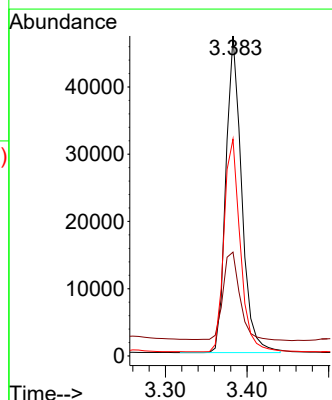
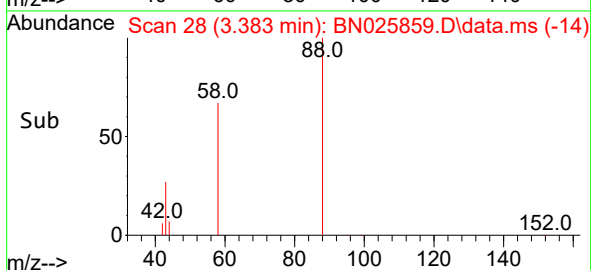
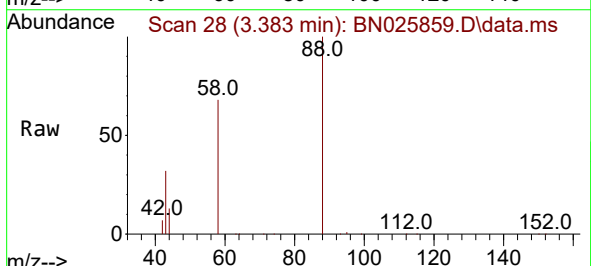


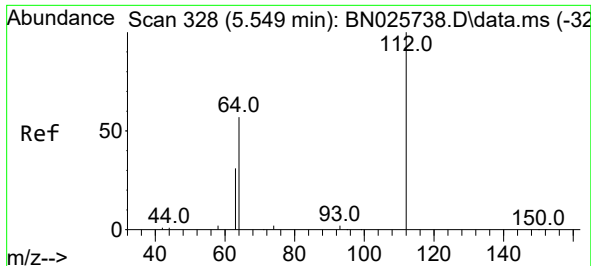
Tgt Ion:152 Resp: 6246  
Ion Ratio Lower Upper  
152 100  
150 152.8 121.5 182.3  
115 61.3 47.7 71.5



#2  
1,4-Dioxane  
Concen: 8.599 ng  
RT: 3.383 min Scan# 28  
Delta R.T. 0.000 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Tgt Ion: 88 Resp: 63015  
Ion Ratio Lower Upper  
88 100  
43 29.3 31.0 46.4#  
58 69.2 57.3 85.9

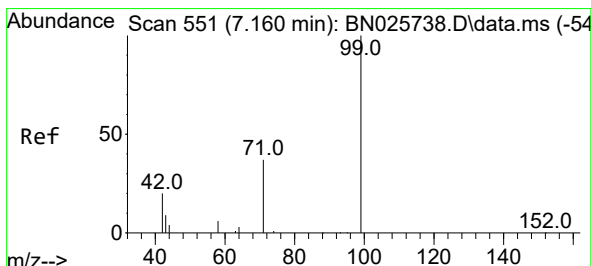
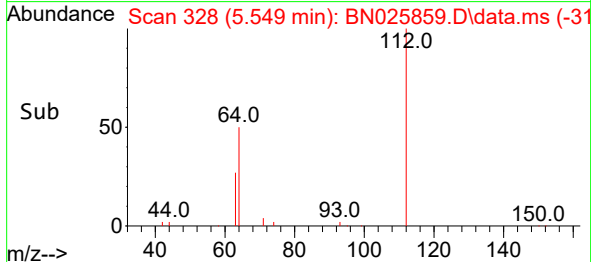
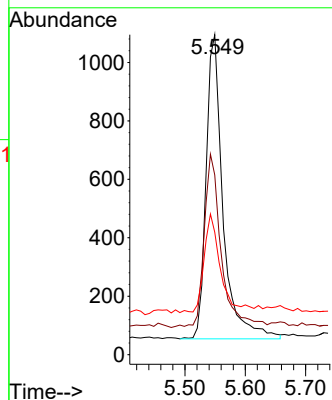
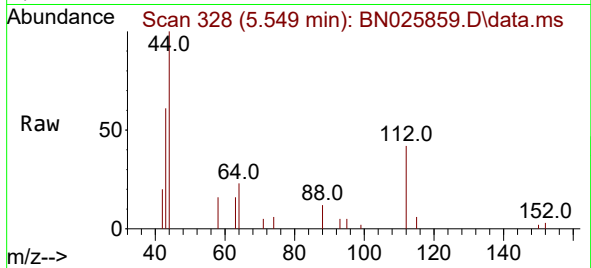




#4  
2-Fluorophenol  
Concen: 0.116 ng  
RT: 5.549 min Scan# 31  
Delta R.T. 0.015 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

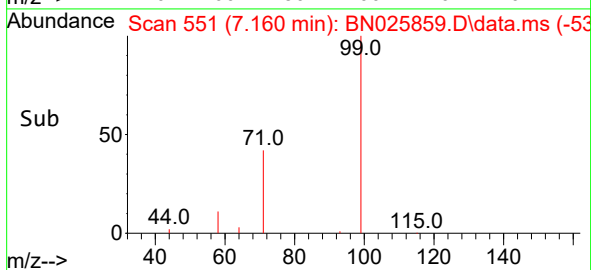
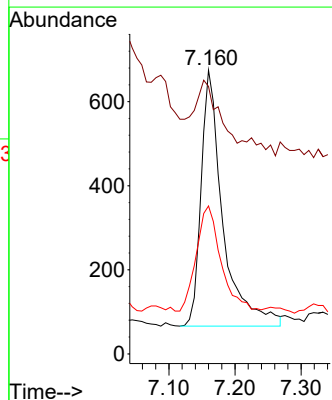
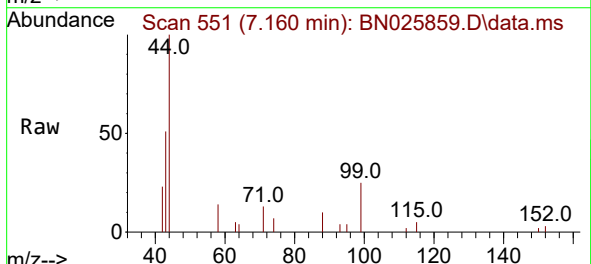
Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223

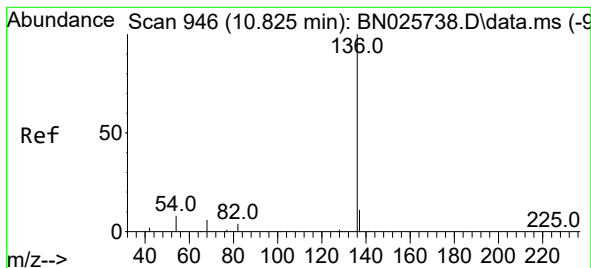
Tgt Ion:112 Resp: 2031  
Ion Ratio Lower Upper  
112 100  
64 57.5 47.5 71.3  
63 30.3 26.2 39.4



#5  
Phenol-d6  
Concen: 0.065 ng  
RT: 7.160 min Scan# 551  
Delta R.T. 0.007 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Tgt Ion: 99 Resp: 1395  
Ion Ratio Lower Upper  
99 100  
42 24.0 18.6 28.0  
71 46.2 30.5 45.7#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.814 min Scan# 946

Delta R.T. 0.000 min

Lab File: BN025859.D

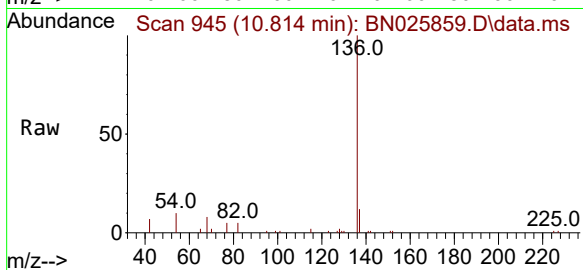
Acq: 15 Jun 2023 15:41

Instrument :

BNA\_N

ClientSampleId :

OW-06B-74-79-061223



Tgt Ion:136 Resp: 16536

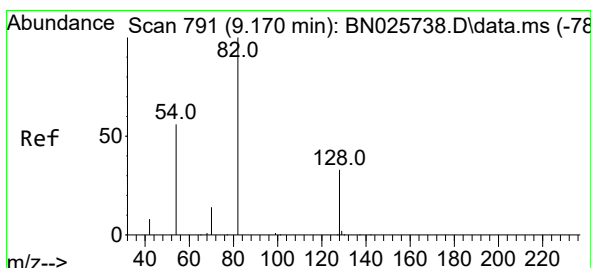
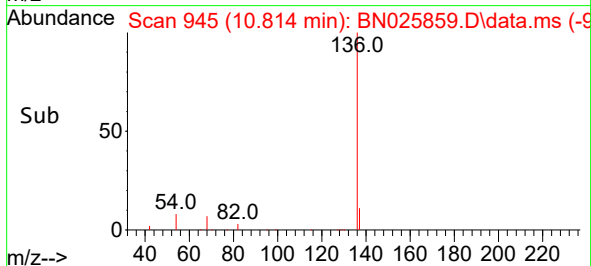
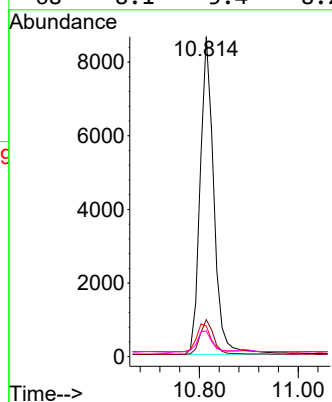
Ion Ratio Lower Upper

136 100

137 11.6 9.3 13.9

54 9.6 7.2 10.8

68 8.1 5.4 8.2



#8

Nitrobenzene-d5

Concen: 0.263 ng

RT: 9.170 min Scan# 791

Delta R.T. 0.011 min

Lab File: BN025859.D

Acq: 15 Jun 2023 15:41

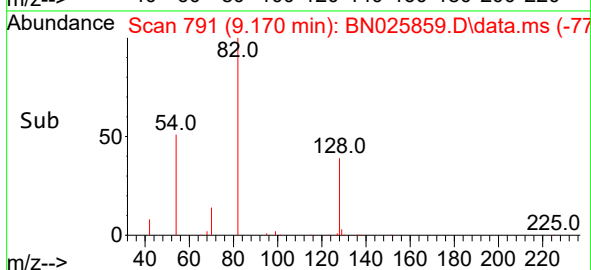
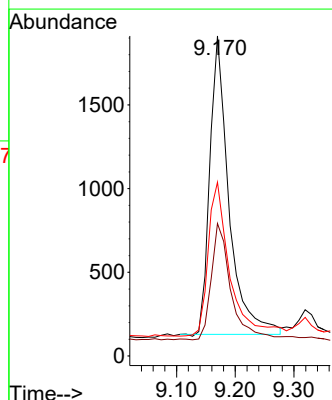
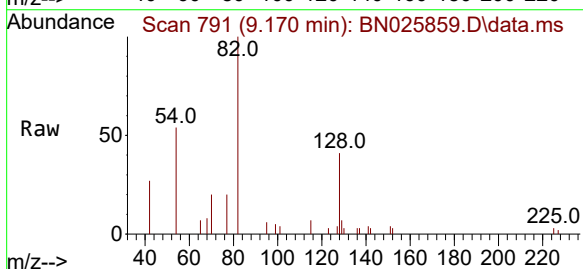
Tgt Ion: 82 Resp: 4040

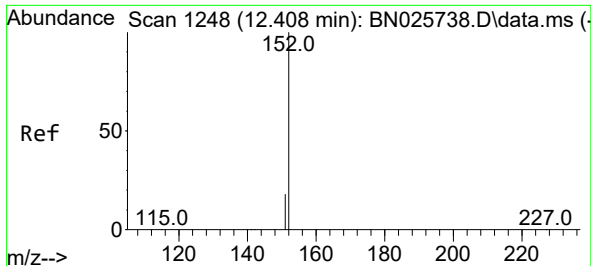
Ion Ratio Lower Upper

82 100

128 41.4 27.6 41.4#

54 54.3 45.7 68.5





#11

2-Methylnaphthalene-d10

Concen: 0.306 ng

RT: 12.400 min Scan# 11

Delta R.T. 0.004 min

Lab File: BN025859.D

Acq: 15 Jun 2023 15:41

Instrument :

BNA\_N

ClientSampleId :

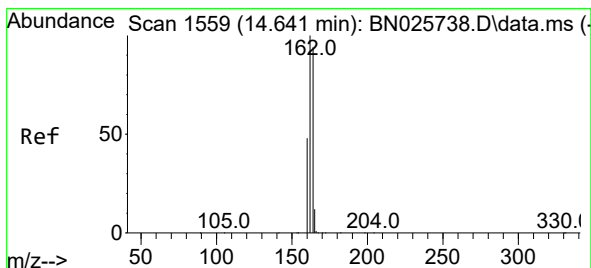
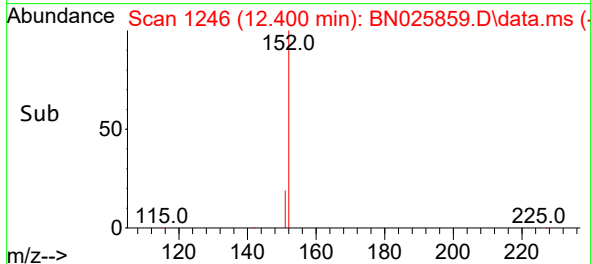
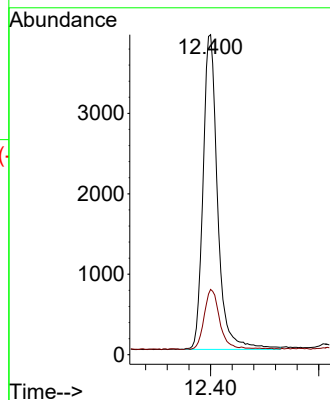
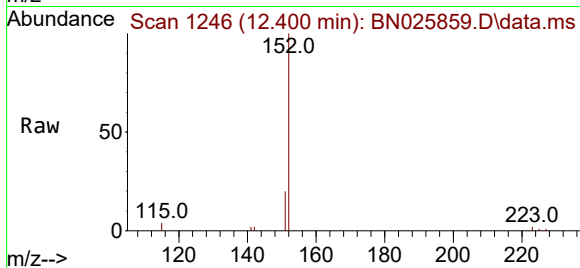
OW-06B-74-79-061223

Tgt Ion:152 Resp: 7285

Ion Ratio Lower Upper

152 100

151 20.1 16.4 24.6



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.630 min Scan# 1558

Delta R.T. 0.000 min

Lab File: BN025859.D

Acq: 15 Jun 2023 15:41

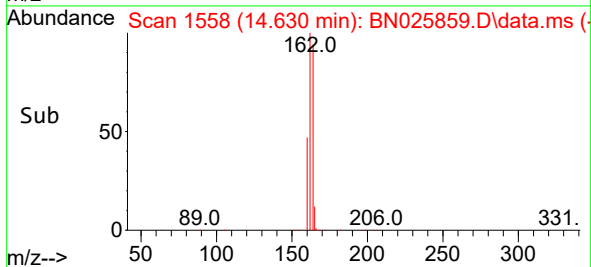
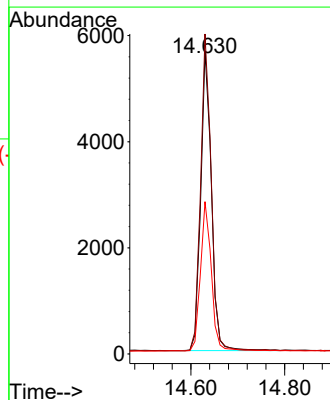
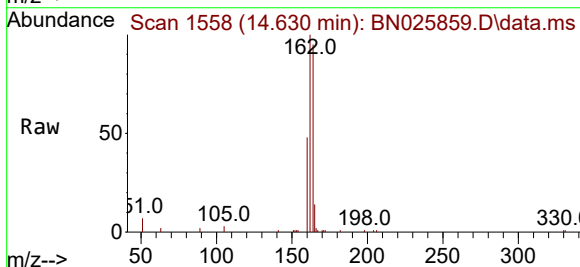
Tgt Ion:164 Resp: 8921

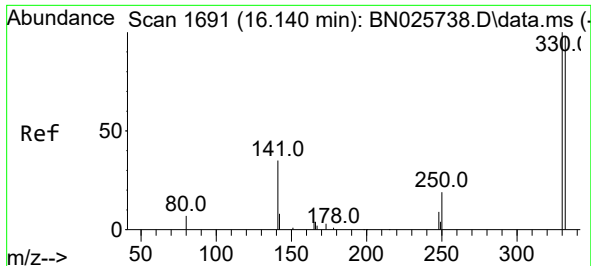
Ion Ratio Lower Upper

164 100

162 105.7 85.0 127.6

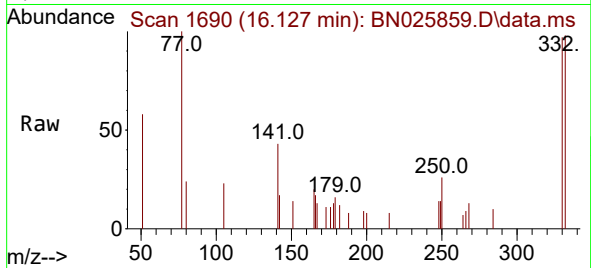
160 50.3 41.1 61.7



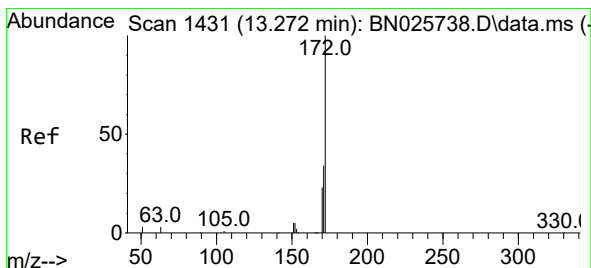
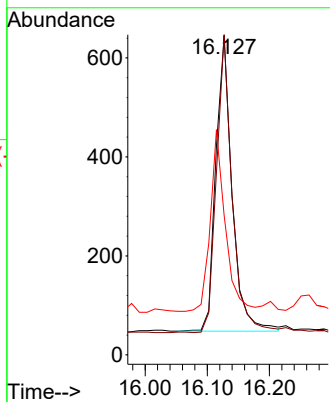
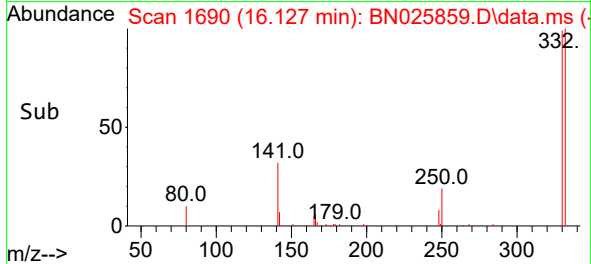


#14  
2,4,6-Tribromophenol  
Concen: 0.394 ng  
RT: 16.127 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

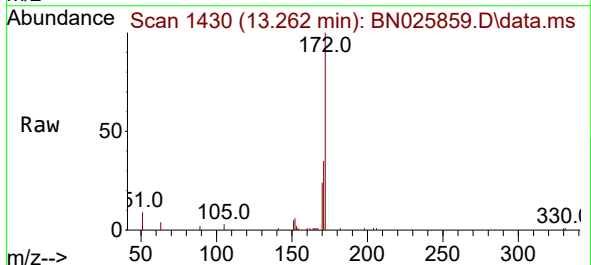
Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223



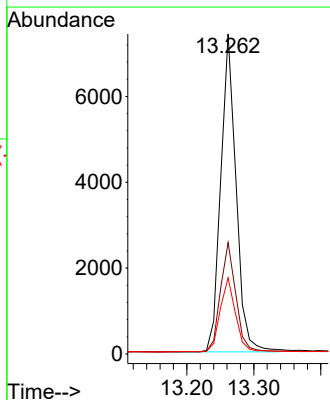
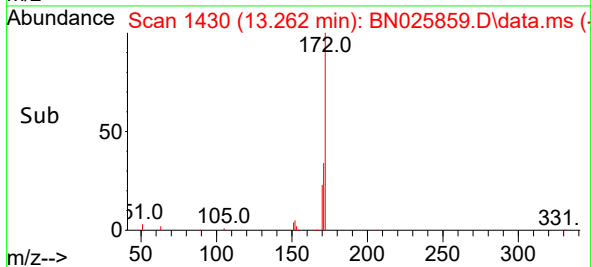
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Ion Ratio Lower Upper  
330 100  
332 96.8 77.3 115.9  
141 56.5 55.0 82.6

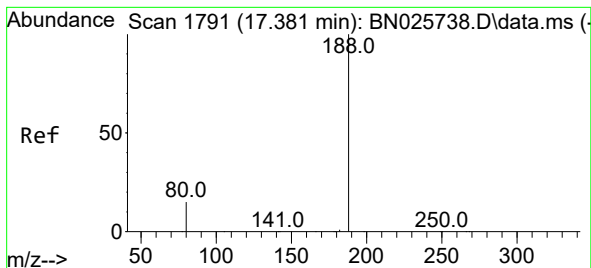


#15  
2-Fluorobiphenyl  
Concen: 0.312 ng  
RT: 13.262 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41



Tgt Ion: 172 Resp: 11784  
Ion Ratio Lower Upper  
172 100  
171 34.8 27.3 40.9  
170 23.8 18.6 28.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.381 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN025859.D

Acq: 15 Jun 2023 15:41

Instrument :

BNA\_N

ClientSampleId :

OW-06B-74-79-061223

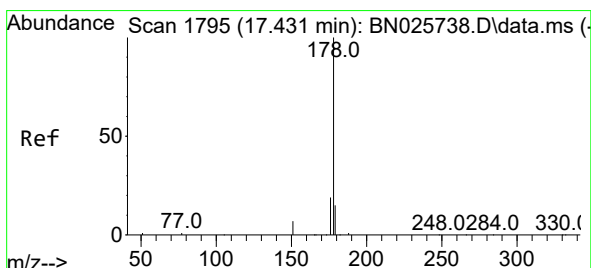
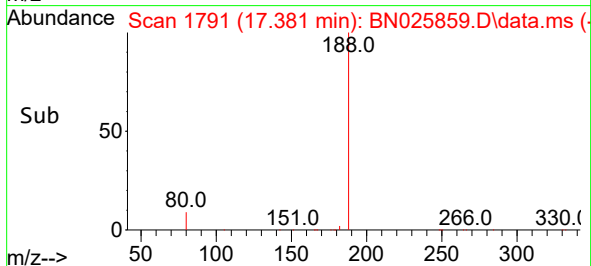
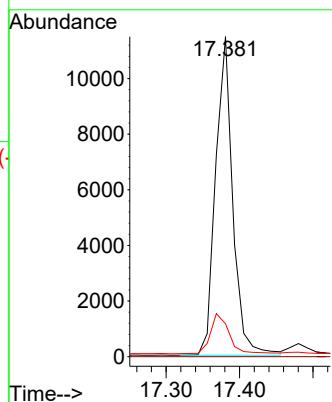
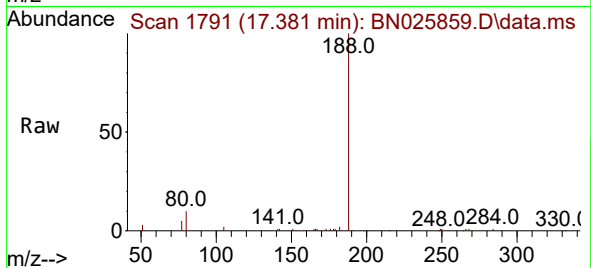
Tgt Ion:188 Resp: 18613

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 12.1 18.1#



#25

Phenanthrene

Concen: 0.028 ng

RT: 17.418 min Scan# 1794

Delta R.T. 0.000 min

Lab File: BN025859.D

Acq: 15 Jun 2023 15:41

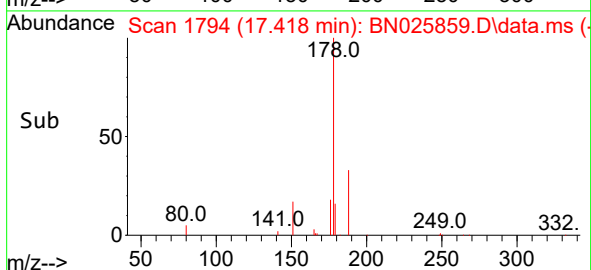
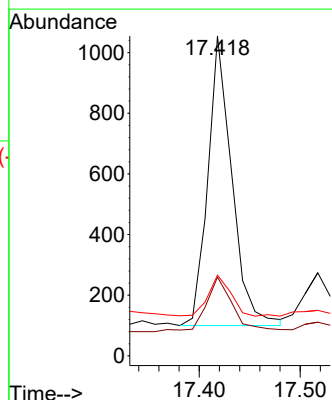
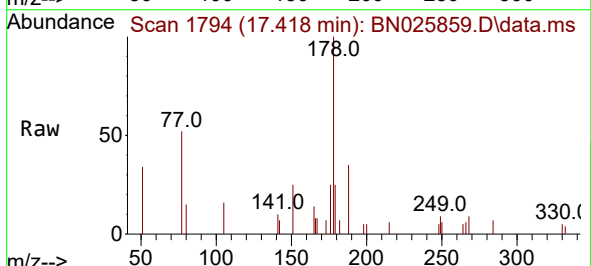
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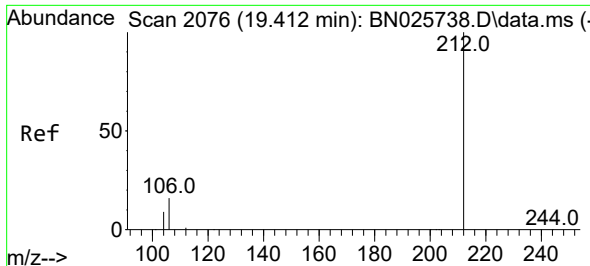
Ion Ratio Lower Upper

178 100

176 21.3 15.7 23.5

179 14.7 12.2 18.2

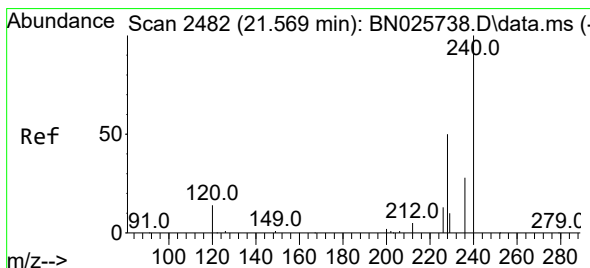
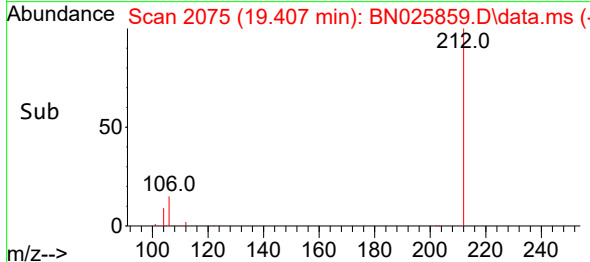
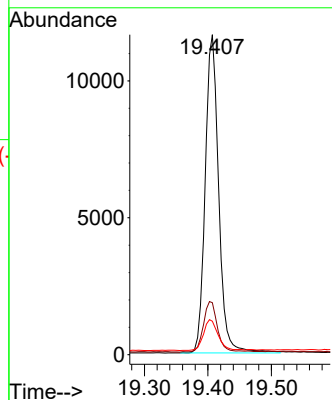
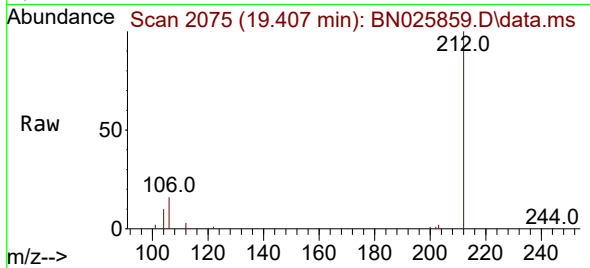




#27  
Fluoranthene-d10  
Concen: 0.448 ng  
RT: 19.407 min Scan# 2076  
Delta R.T. 0.005 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

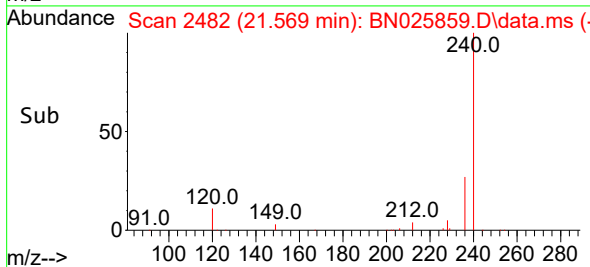
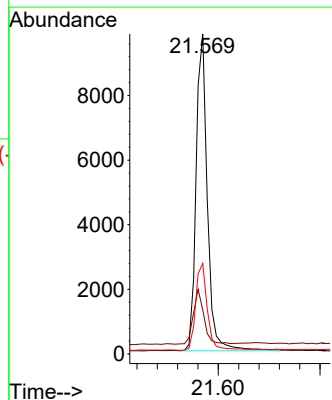
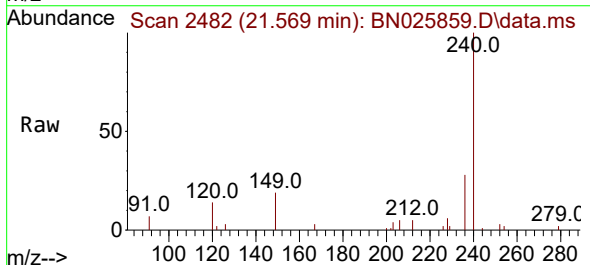
Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223

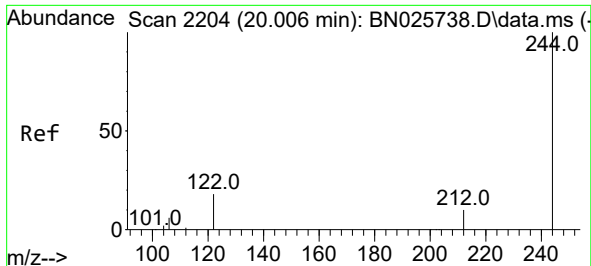
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Ion Ratio Lower Upper  
212 100  
106 16.7 13.0 19.6  
104 10.6 7.7 11.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.569 min Scan# 2482  
Delta R.T. 0.009 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Tgt Ion:240 Resp: 15052  
Ion Ratio Lower Upper  
240 100  
120 13.8 13.2 19.8  
236 28.3 23.1 34.7

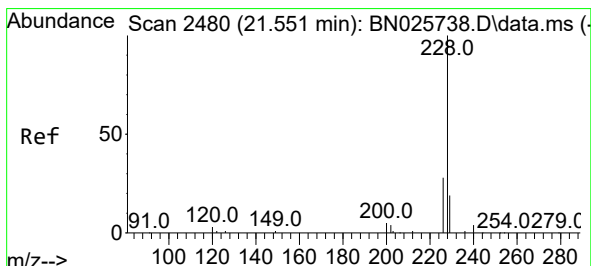
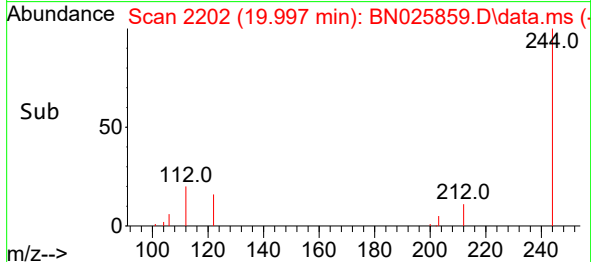
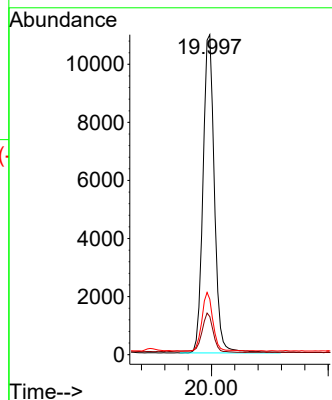
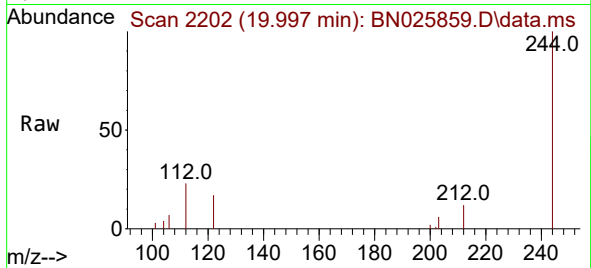




#31  
 Terphenyl-d14  
 Concen: 0.410 ng  
 RT: 19.997 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN025859.D  
 Acq: 15 Jun 2023 15:41

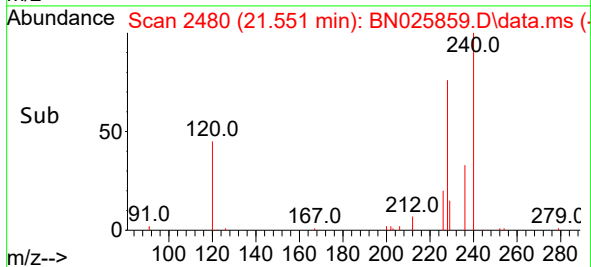
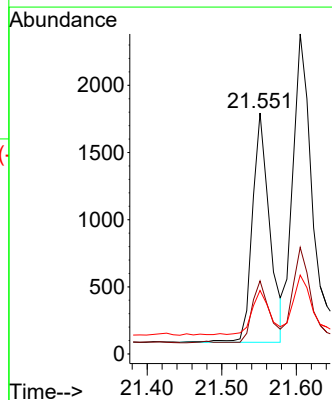
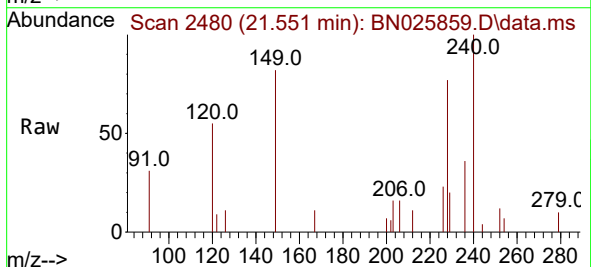
Instrument :  
 BNA\_N  
 ClientSampleId :  
 OW-06B-74-79-061223

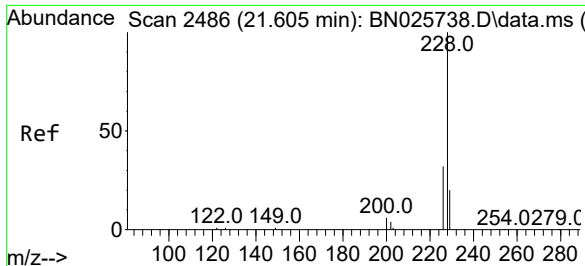
Tgt Ion:244 Resp: 14970  
 Ion Ratio Lower Upper  
 244 100  
 212 11.9 8.6 12.8  
 122 17.3 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.047 ng  
 RT: 21.551 min Scan# 2480  
 Delta R.T. 0.009 min  
 Lab File: BN025859.D  
 Acq: 15 Jun 2023 15:41

Tgt Ion:228 Resp: 2739  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 22.9 34.3  
 229 26.4 15.6 23.4#

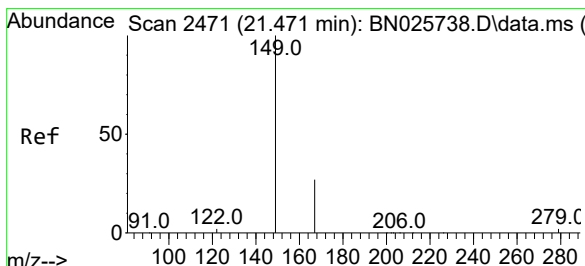
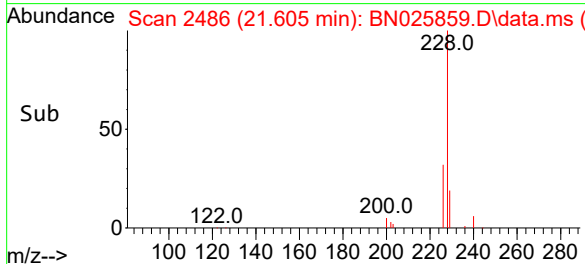
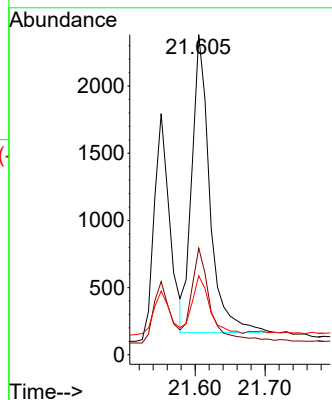
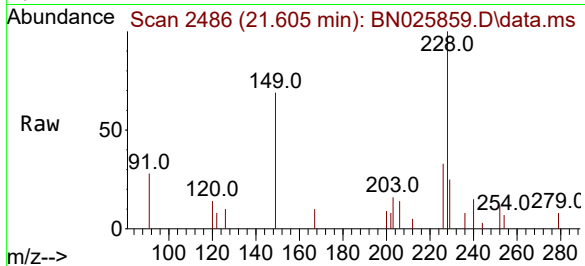




#33  
Chrysene  
Concen: 0.064 ng  
RT: 21.605 min Scan# 2486  
Delta R.T. 0.009 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

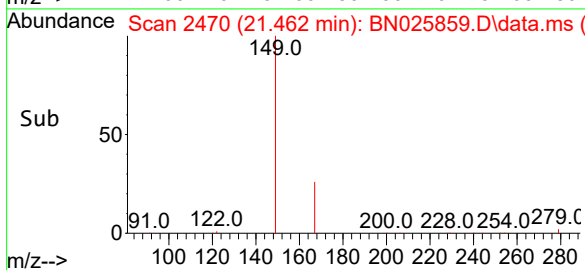
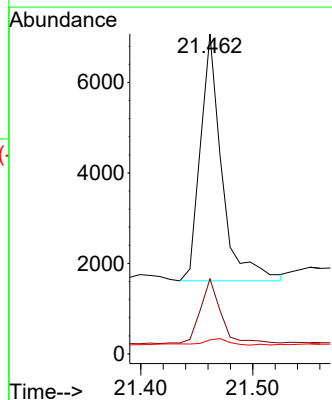
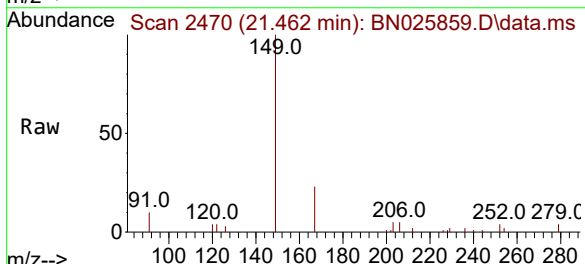
Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223

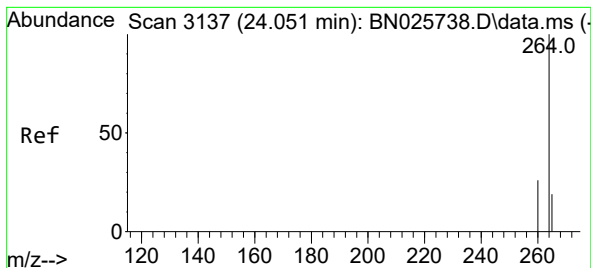
Tgt Ion:228 Resp: 3948  
Ion Ratio Lower Upper  
228 100  
226 33.3 25.4 38.2  
229 24.7 16.1 24.1#



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.210 ng  
RT: 21.462 min Scan# 2470  
Delta R.T. 0.000 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Tgt Ion:149 Resp: 7255  
Ion Ratio Lower Upper  
149 100  
167 25.4 21.0 31.6  
279 3.8 2.2 3.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 24.054 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN025859.D

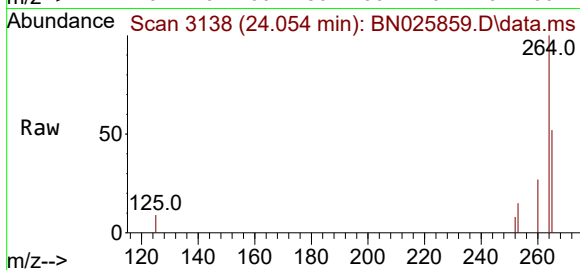
Acq: 15 Jun 2023 15:41

Instrument :

BNA\_N

ClientSampleId :

OW-06B-74-79-061223



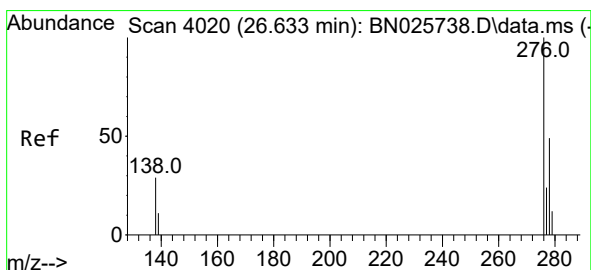
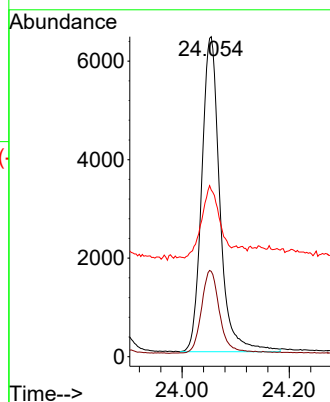
Tgt Ion:264 Resp: 15035

Ion Ratio Lower Upper

264 100

260 26.7 21.4 32.2

265 52.1 44.7 67.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.045 ng

RT: 26.665 min Scan# 4031

Delta R.T. 0.024 min

Lab File: BN025859.D

Acq: 15 Jun 2023 15:41

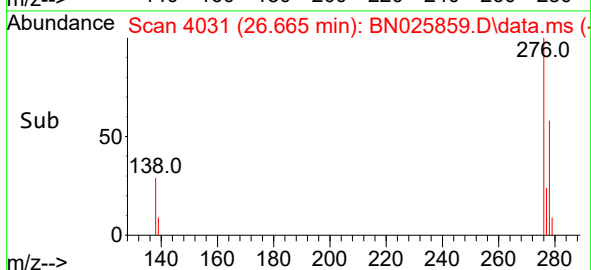
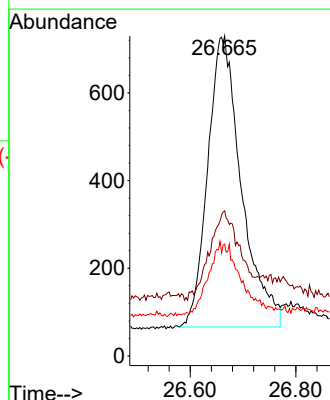
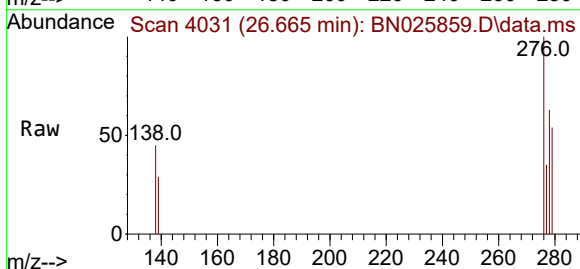
Tgt Ion:276 Resp: 2946

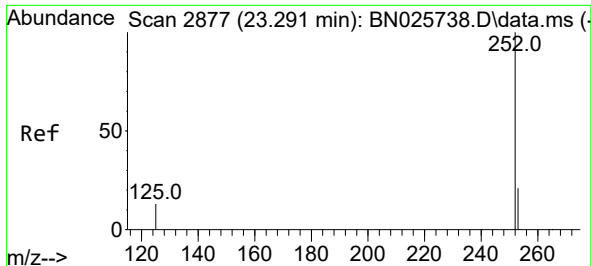
Ion Ratio Lower Upper

276 100

138 25.0 26.1 39.1#

277 9.9 19.4 29.2#

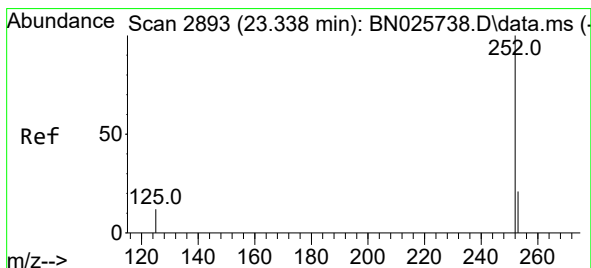
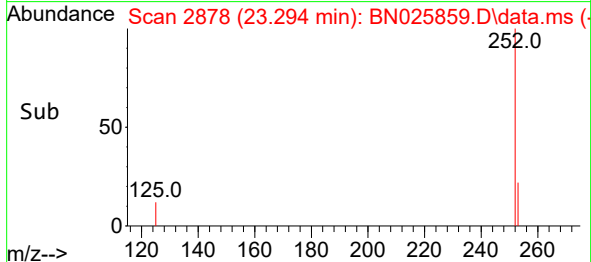
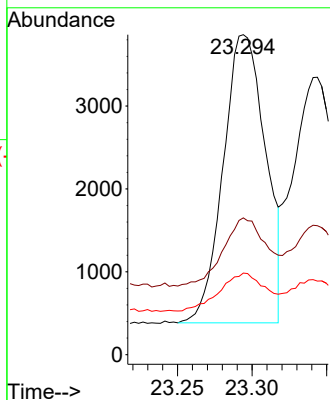
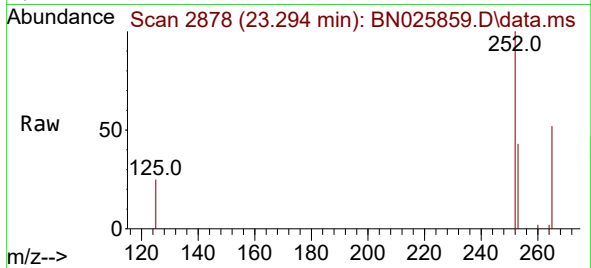




#37  
Benzo(b)fluoranthene  
Concen: 0.116 ng  
RT: 23.294 min Scan# 2877  
Delta R.T. 0.012 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

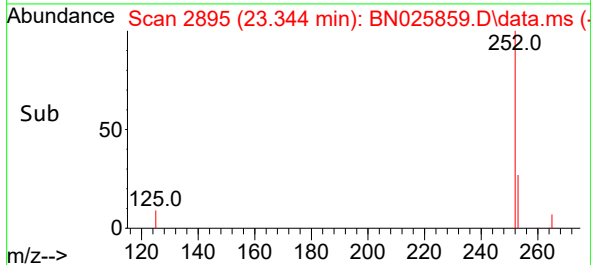
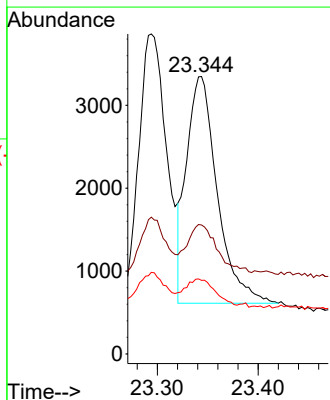
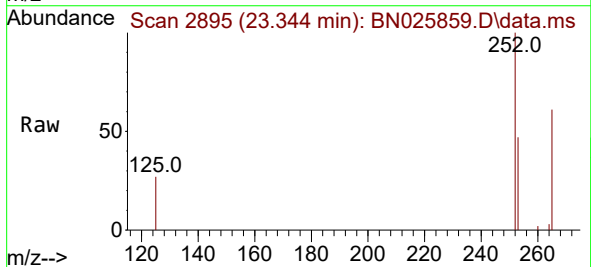
Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223

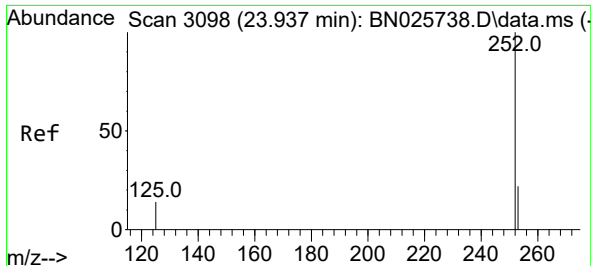
Tgt Ion:252 Resp: 6873  
Ion Ratio Lower Upper  
252 100  
253 42.7 23.4 35.0#  
125 25.5 12.3 18.5#



#38  
Benzo(k)fluoranthene  
Concen: 0.096 ng  
RT: 23.344 min Scan# 2895  
Delta R.T. 0.015 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Tgt Ion:252 Resp: 5816  
Ion Ratio Lower Upper  
252 100  
253 46.5 24.2 36.4#  
125 26.5 12.2 18.2#

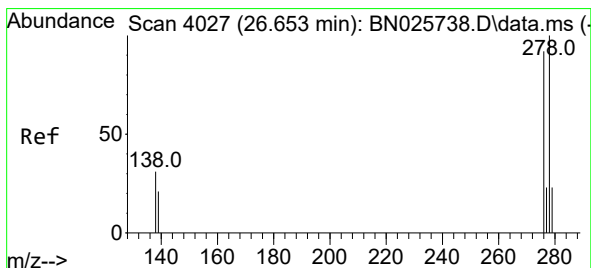
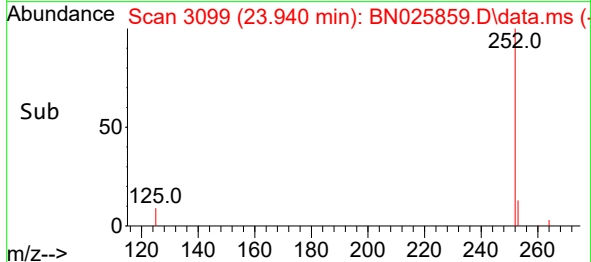
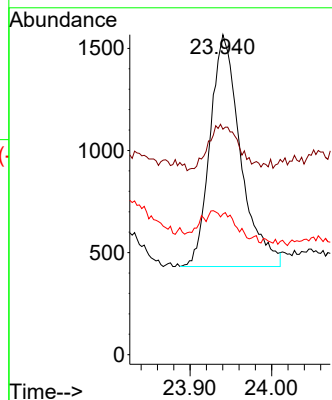
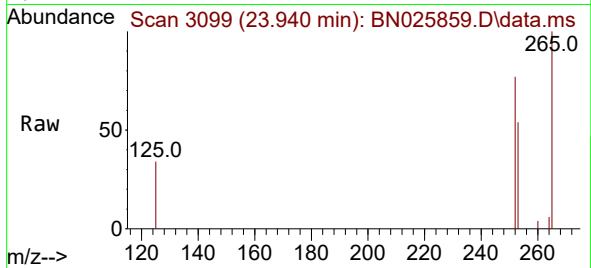




#39  
Benzo(a)pyrene  
Concen: 0.052 ng  
RT: 23.940 min Scan# 3098  
Delta R.T. 0.003 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

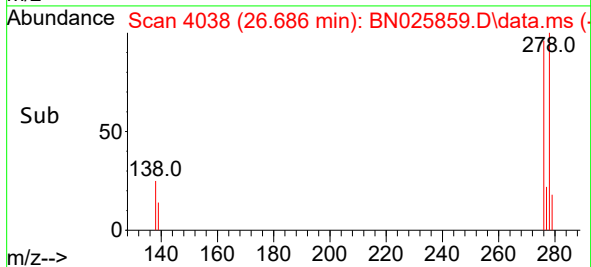
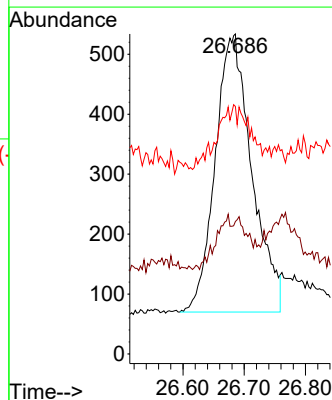
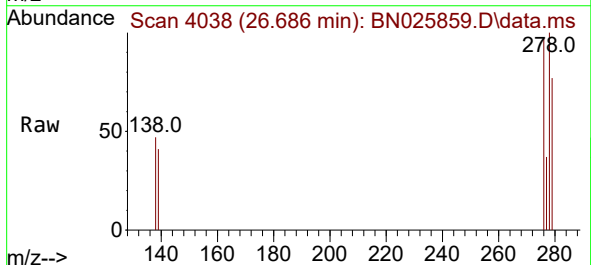
Instrument :  
BNA\_N  
ClientSampleId :  
OW-06B-74-79-061223

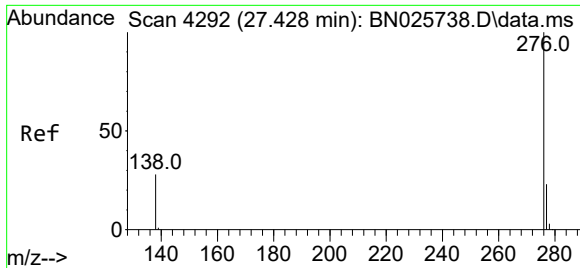
Tgt Ion:252 Resp: 2944  
Ion Ratio Lower Upper  
252 100  
253 70.5 27.5 41.3#  
125 44.0 14.6 21.8#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.037 ng  
RT: 26.686 min Scan# 4038  
Delta R.T. 0.024 min  
Lab File: BN025859.D  
Acq: 15 Jun 2023 15:41

Tgt Ion:278 Resp: 1926  
Ion Ratio Lower Upper  
278 100  
139 41.4 18.7 28.1#  
279 77.3 25.1 37.7#





#41

Benzo(g,h,i)perylene

Concen: 0.024 ng

RT: 27.452 min Scan# 41

Delta R.T. 0.006 min

Lab File: BN025859.D

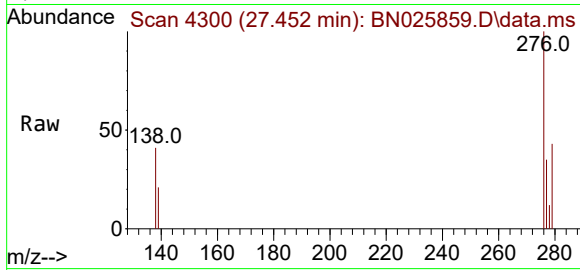
Acq: 15 Jun 2023 15:41

Instrument :

BNA\_N

ClientSampleId :

OW-06B-74-79-061223



Tgt Ion:276 Resp: 1407

Ion Ratio Lower Upper

276 100

277 34.8 20.2 30.2#

138 41.2 24.2 36.4#

