

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121025\  
 Data File : BN038308.D  
 Acq On : 10 Dec 2025 15:54  
 Operator : RC/JU  
 Sample : Q3483-11DL 100X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Dec 10 16:29:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN121025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 10 13:56:50 2025  
 Response via : Initial Calibration

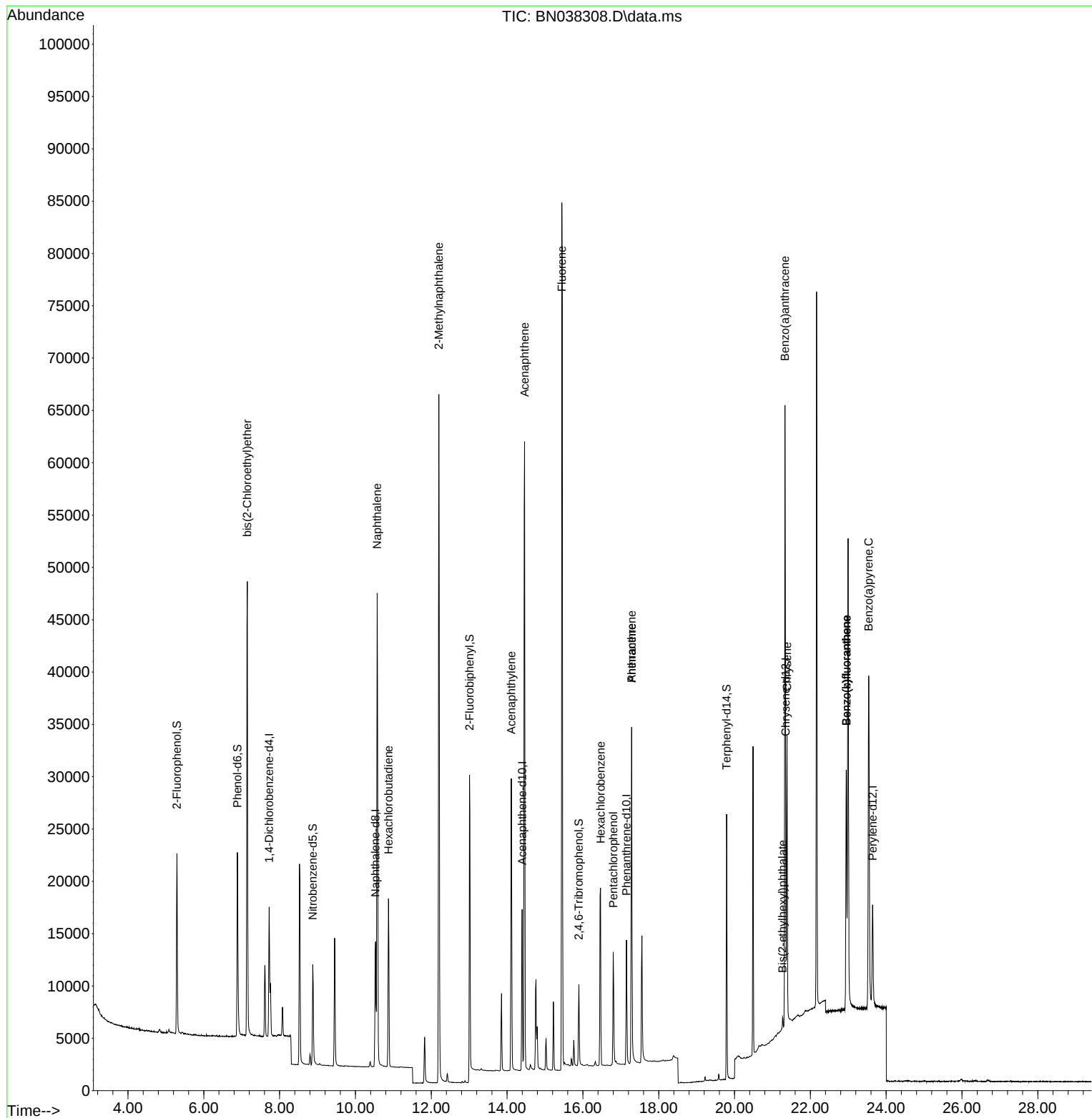
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.724  | 152  | 6022     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.530 | 136  | 16658    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.398 | 164  | 8653     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.149 | 188  | 15536    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.349 | 240  | 12910    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.642 | 264  | 13075    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.291  | 112  | 13822    | 0.922 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.887  | 99   | 17157    | 0.962 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.875  | 82   | 8104     | 0.577 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.121 | 152  | 7        | 0.000 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.895 | 330  | 4554     | 1.186 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.008 | 172  | 25293    | 0.607 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.188 | 212  | 22       | 0.001 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.791 | 244  | 23987    | 0.833 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 6) bis(2-Chloroethyl)ether    | 7.147  | 93   | 32335    | 1.854 | ng    | 98       |
| 9) Naphthalene                | 10.573 | 128  | 60920    | 1.237 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.872 | 225  | 13067    | 1.493 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.202 | 142  | 48416    | 1.549 | ng    | 99       |
| 16) Acenaphthylene            | 14.110 | 152  | 30976    | 0.729 | ng    | 99       |
| 17) Acenaphthene              | 14.462 | 154  | 31663    | 1.070 | ng    | 98       |
| 18) Fluorene                  | 15.446 | 166  | 57963    | 1.522 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.466 | 284  | 15423    | 1.113 | ng    | 99       |
| 24) Pentachlorophenol         | 16.801 | 266  | 5563     | 1.029 | ng    | 99       |
| 25) Phenanthrene              | 17.285 | 178  | 34201    | 0.632 | ng    | 99       |
| 26) Anthracene                | 17.285 | 178  | 35324    | 0.758 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.331 | 228  | 48333    | 0.969 | ng    | 99       |
| 33) Chrysene                  | 21.384 | 228  | 24843    | 0.452 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.268 | 149  | 1251     | 0.046 | ng    | # 95     |
| 37) Benzo(b)fluoranthene      | 22.949 | 252  | 29224    | 0.487 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.949 | 252  | 29224    | 0.488 | ng    | 97       |
| 39) Benzo(a)pyrene            | 23.540 | 252  | 50254    | 1.023 | ng    | # 86     |
| -----                         |        |      |          |       |       |          |

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

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ClientSampleId :

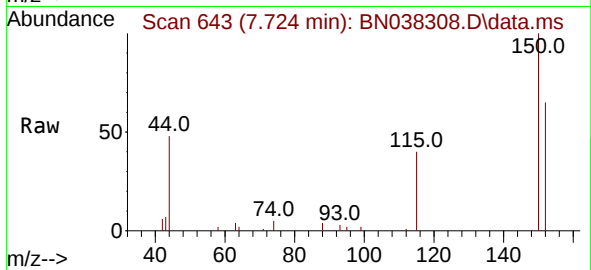
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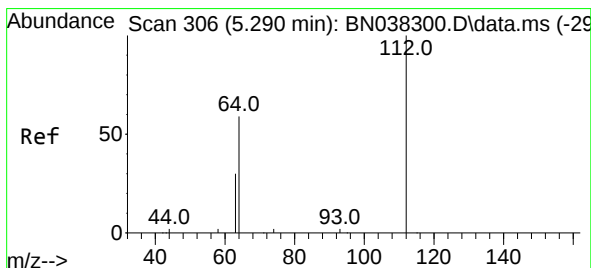
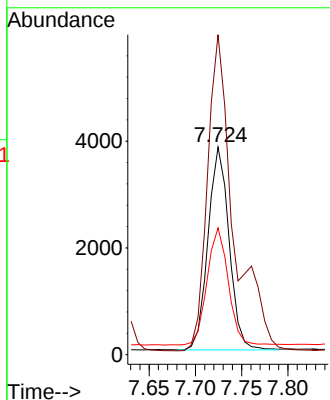
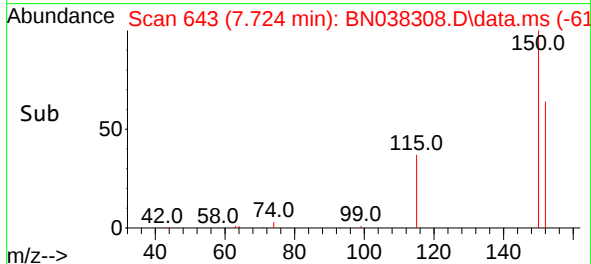


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.724 min Scan# 643  
 Delta R.T. 0.000 min  
 Lab File: BN038308.D  
 Acq: 10 Dec 2025 15:54

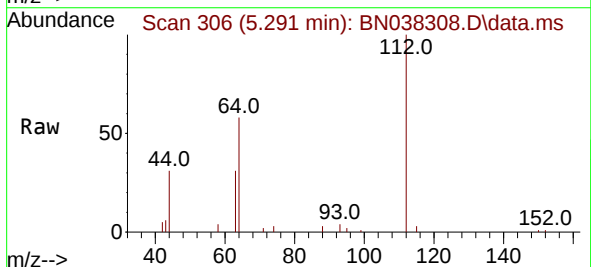
Instrument :  
 BNA\_N  
 ClientSampleId :



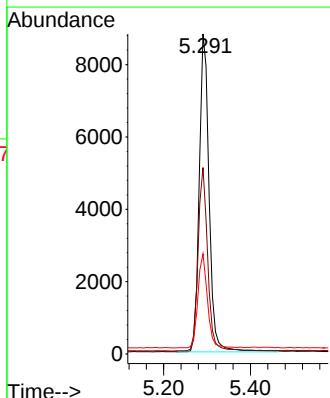
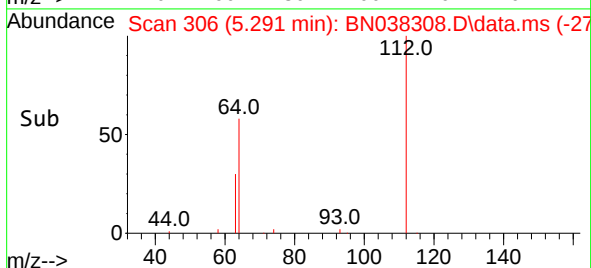
Tgt Ion:152 Resp: 6022  
 Ion Ratio Lower Upper  
 152 100  
 150 154.2 122.4 183.6  
 115 61.0 47.3 70.9

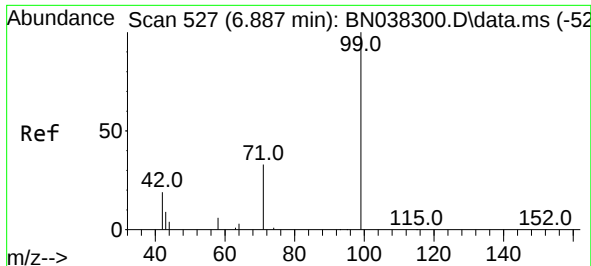


#4  
 2-Fluorophenol  
 Concen: 0.922 ng  
 RT: 5.291 min Scan# 306  
 Delta R.T. 0.000 min  
 Lab File: BN038308.D  
 Acq: 10 Dec 2025 15:54



Tgt Ion:112 Resp: 13822  
 Ion Ratio Lower Upper  
 112 100  
 64 56.9 44.4 66.6  
 63 28.8 23.4 35.0

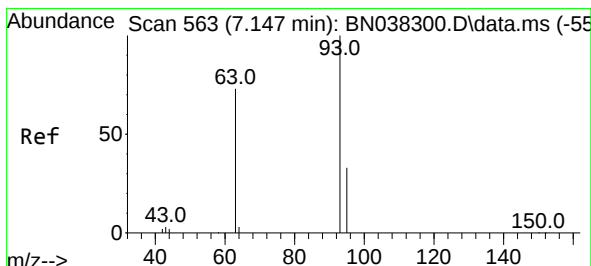
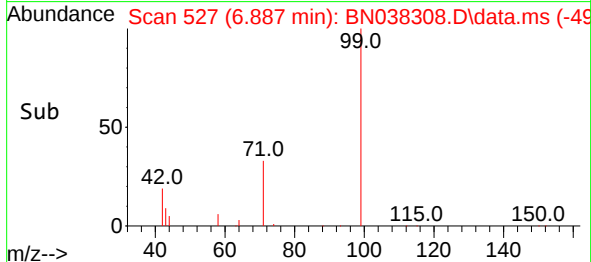
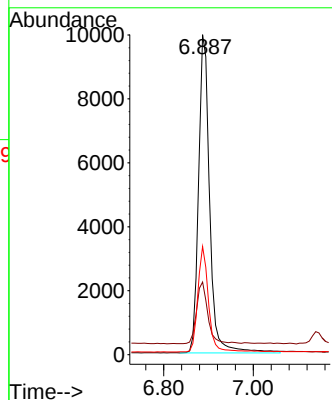
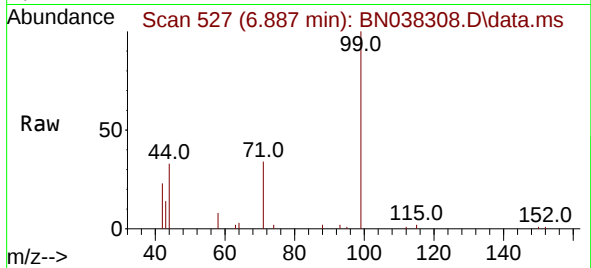




#5  
Phenol-d6  
Concen: 0.962 ng  
RT: 6.887 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

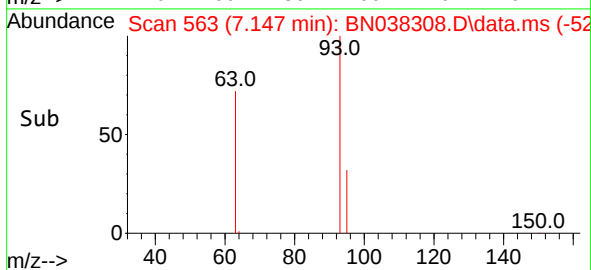
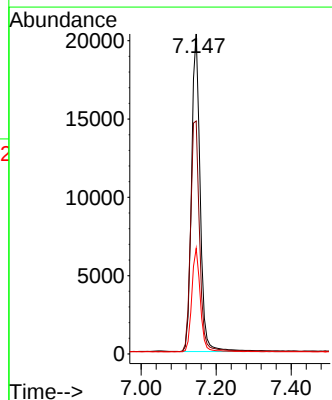
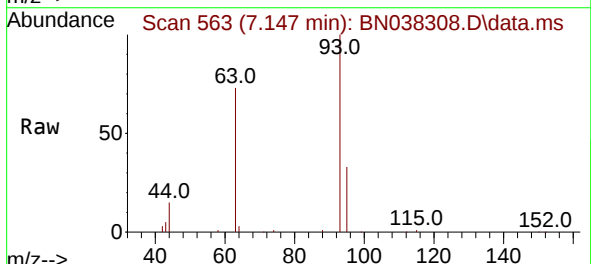
Instrument :  
BNA\_N  
ClientSampleId :

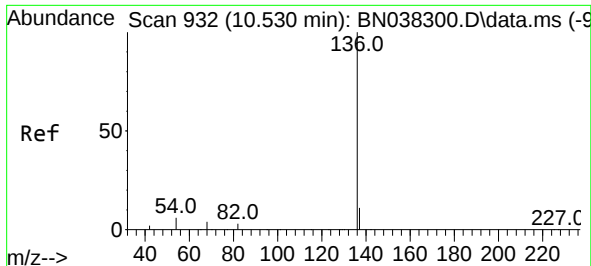
Tgt Ion: 99 Resp: 17157  
Ion Ratio Lower Upper  
99 100  
42 19.6 16.5 24.7  
71 32.0 24.9 37.3



#6  
bis(2-Chloroethyl)ether  
Concen: 1.854 ng  
RT: 7.147 min Scan# 563  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion: 93 Resp: 32335  
Ion Ratio Lower Upper  
93 100  
63 76.3 59.2 88.8  
95 32.4 25.2 37.8

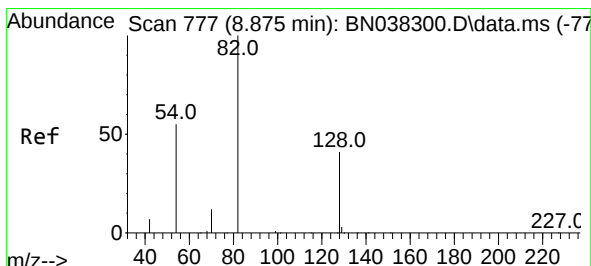
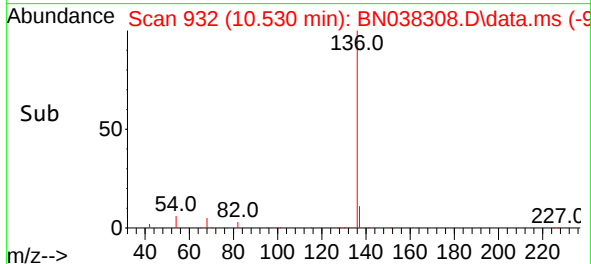
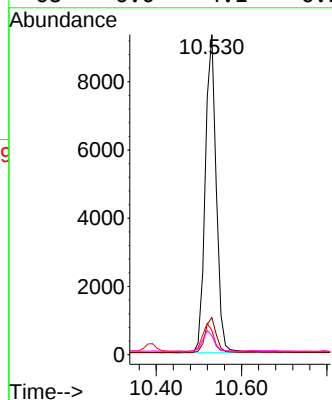
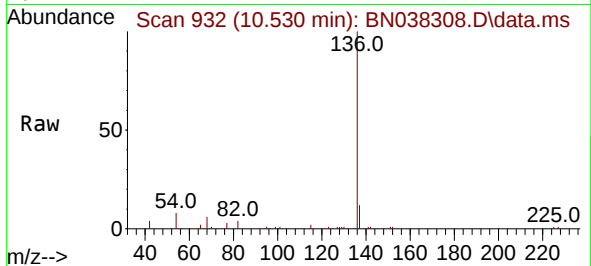




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.530 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

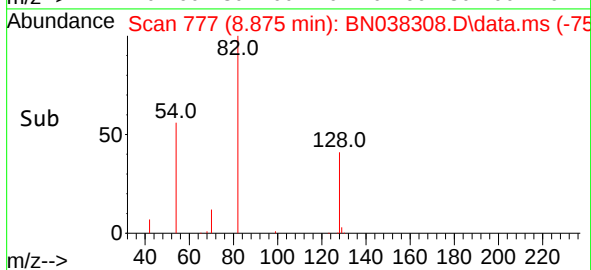
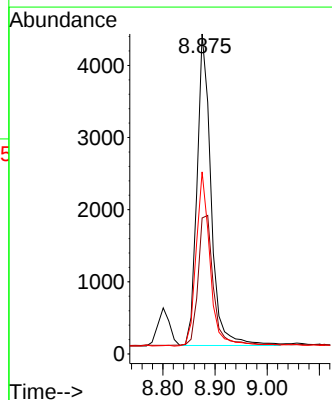
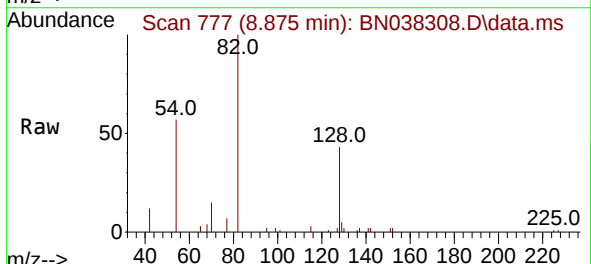
Instrument :  
BNA\_N  
ClientSampleId :

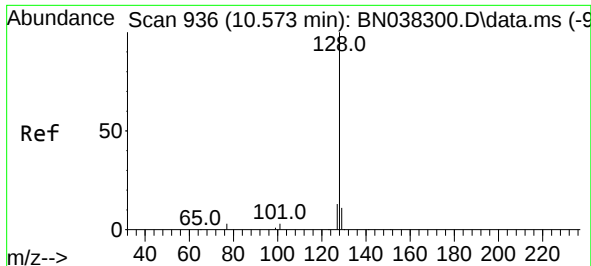
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 16658 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.6  | 9.1   | 13.7  |
| 54       | 7.5   | 5.2   | 7.8   |
| 68       | 6.0   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.577 ng  
RT: 8.875 min Scan# 777  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8104  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.5  | 34.0  | 51.0  |
| 54       | 56.9  | 44.4  | 66.6  |

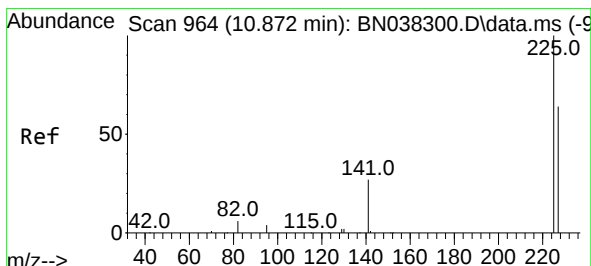
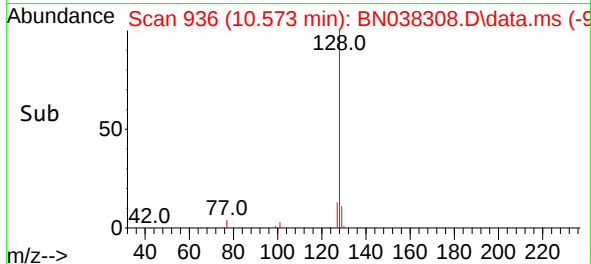
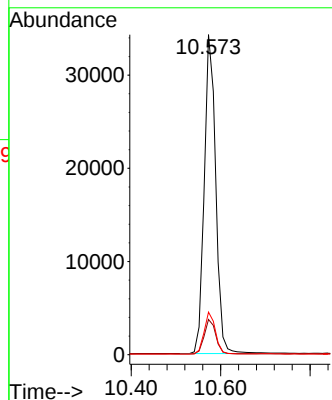
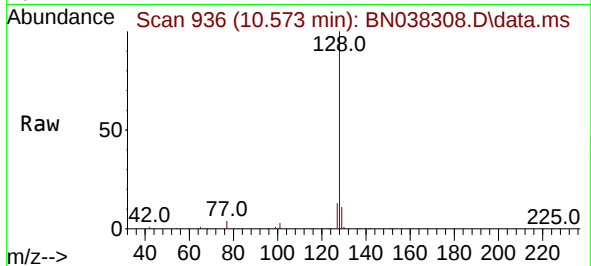




#9  
Naphthalene  
Concen: 1.237 ng  
RT: 10.573 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

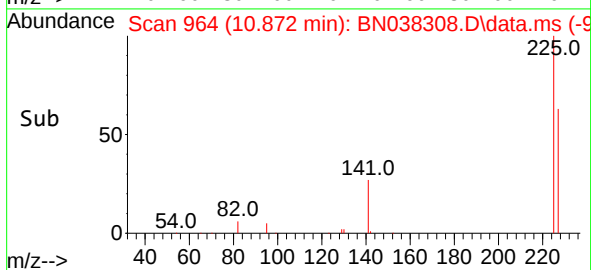
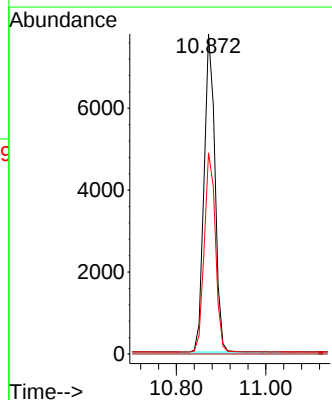
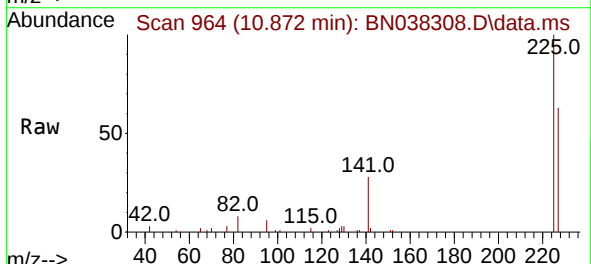
Instrument :  
BNA\_N  
ClientSampleId :

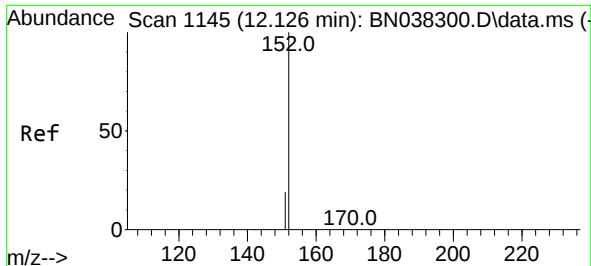
Tgt Ion:128 Resp: 60920  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.1 13.7  
127 13.3 10.9 16.3



#10  
Hexachlorobutadiene  
Concen: 1.493 ng  
RT: 10.872 min Scan# 964  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion:225 Resp: 13067  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.2 76.8

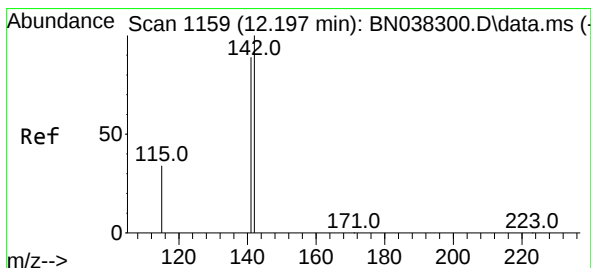
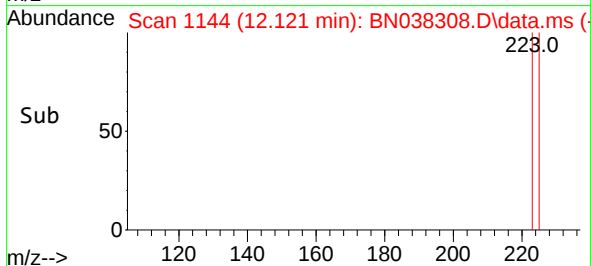
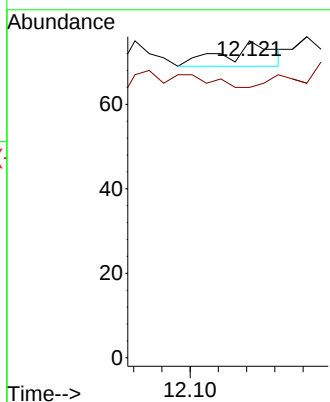
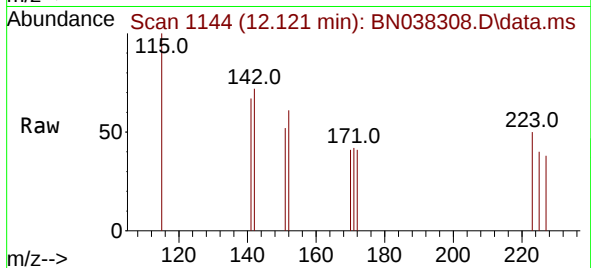




#11  
2-Methylnaphthalene-d10  
Concen: 0.000 ng  
RT: 12.121 min Scan# 1145  
Delta R.T. -0.005 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

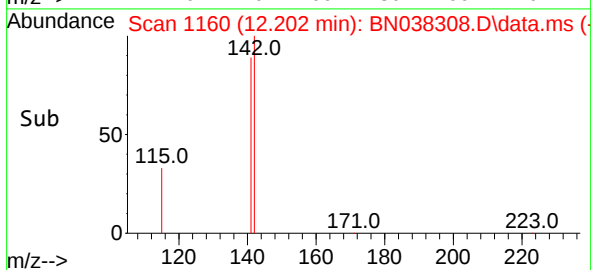
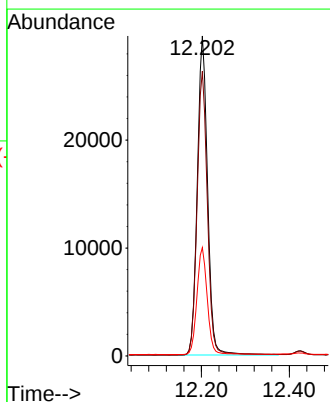
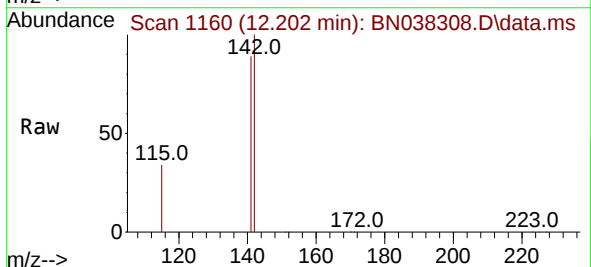
Instrument :  
BNA\_N  
ClientSampleId :

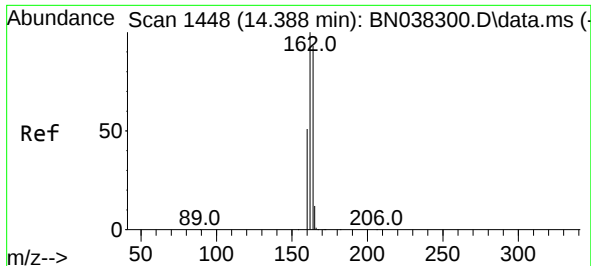
Tgt Ion:152 Resp: 7  
Ion Ratio Lower Upper  
152 100  
151 0.0 17.0 25.6#



#12  
2-Methylnaphthalene  
Concen: 1.549 ng  
RT: 12.202 min Scan# 1160  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

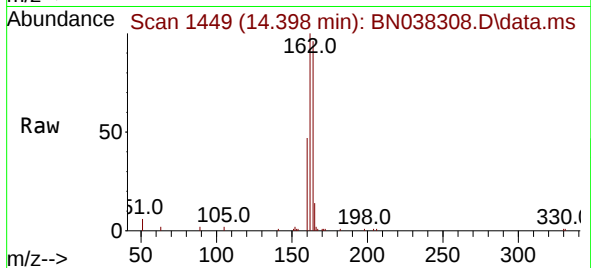
Tgt Ion:142 Resp: 48416  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.4 107.2  
115 33.8 28.4 42.6



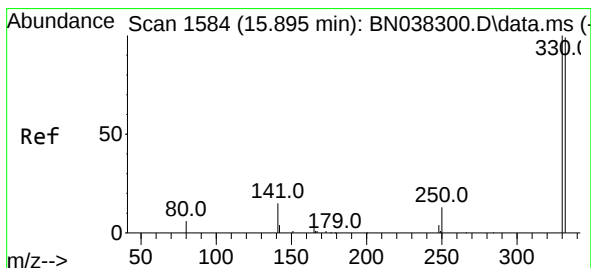
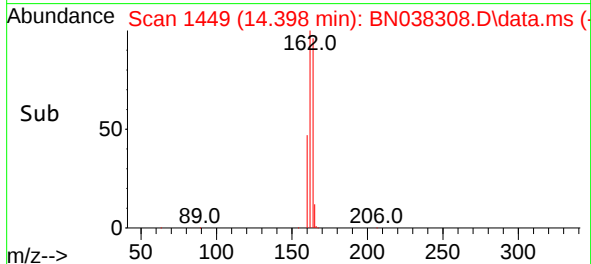
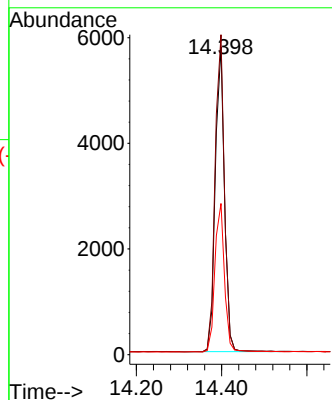


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.398 min Scan# 1449  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Instrument :  
BNA\_N  
ClientSampleId :

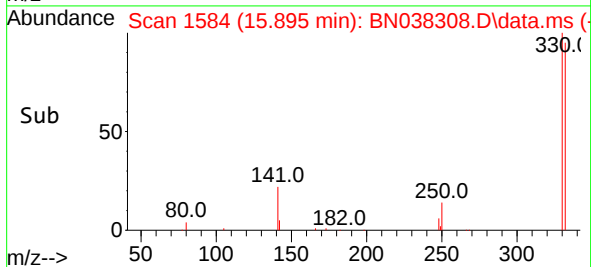
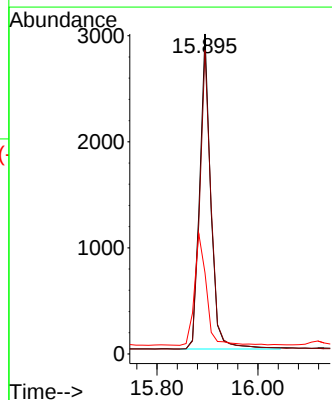
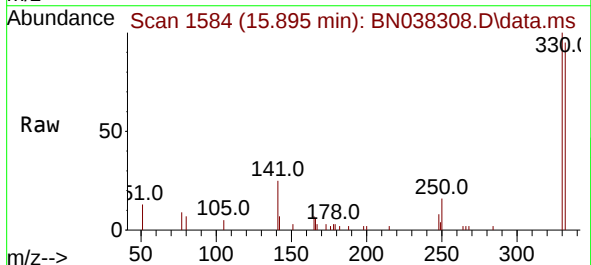


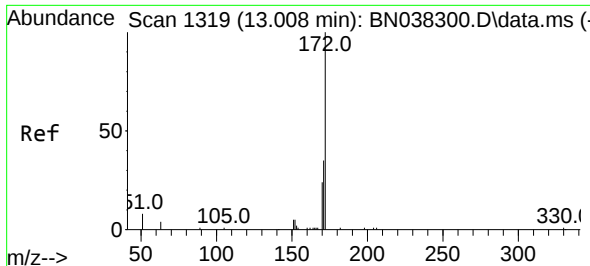
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Ion Ratio Lower Upper  
164 100  
162 104.0 86.2 129.4  
160 49.1 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 1.186 ng  
RT: 15.895 min Scan# 1584  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion:330 Resp: 4554  
Ion Ratio Lower Upper  
330 100  
332 97.1 75.8 113.6  
141 38.1 31.8 47.8

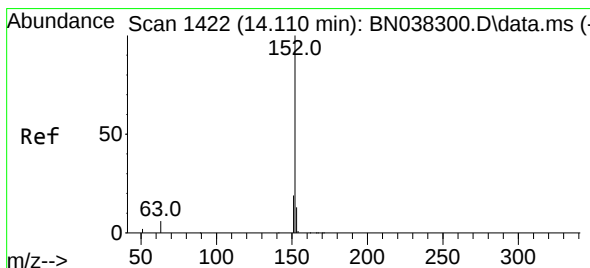
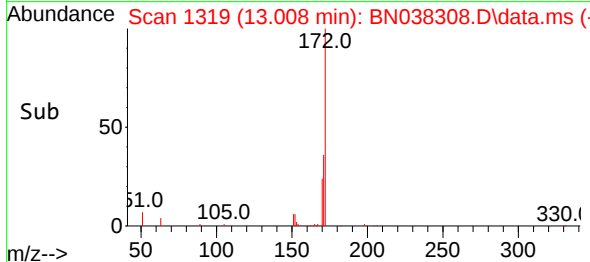
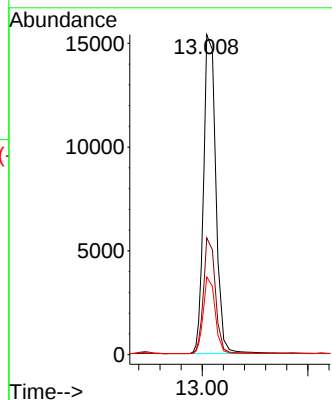
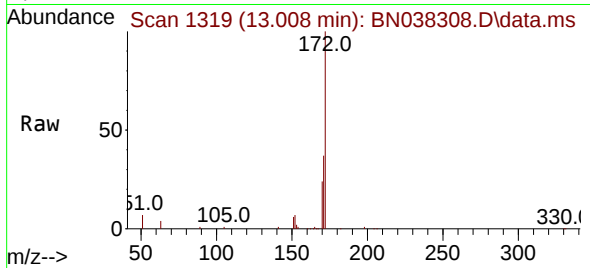




#15  
2-Fluorobiphenyl  
Concen: 0.607 ng  
RT: 13.008 min Scan# 1319  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

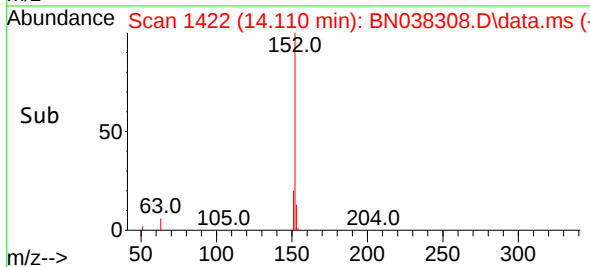
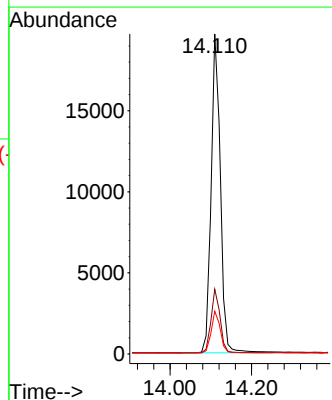
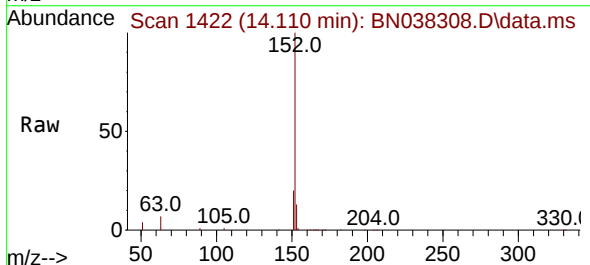
Instrument :  
BNA\_N  
ClientSampleId :

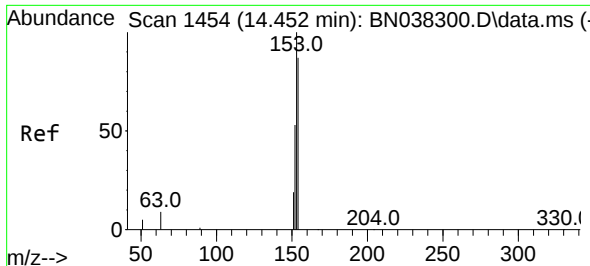
Tgt Ion:172 Resp: 25293  
Ion Ratio Lower Upper  
172 100  
171 36.5 28.6 42.8  
170 24.3 19.3 28.9



#16  
Acenaphthylene  
Concen: 0.729 ng  
RT: 14.110 min Scan# 1422  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion:152 Resp: 30976  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.4 23.2  
153 12.9 10.2 15.4

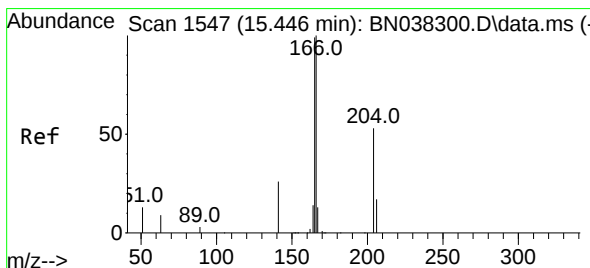
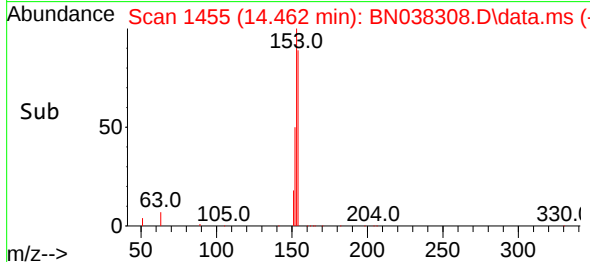
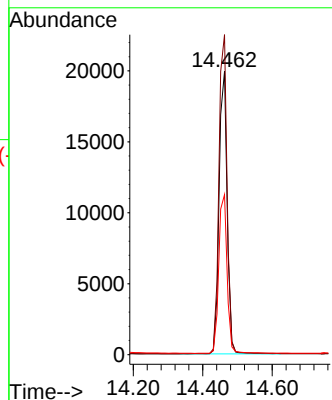
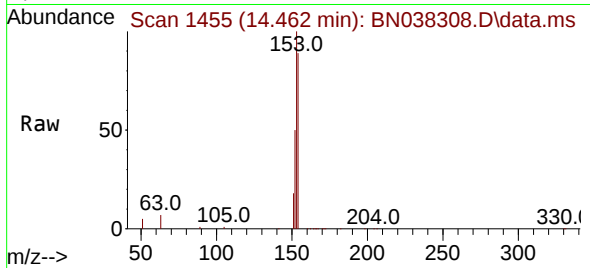




#17  
Acenaphthene  
Concen: 1.070 ng  
RT: 14.462 min Scan# 1454  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

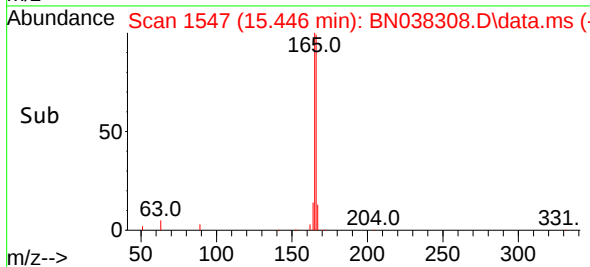
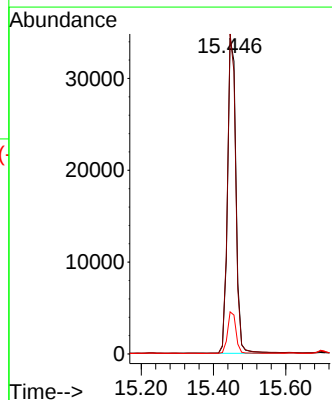
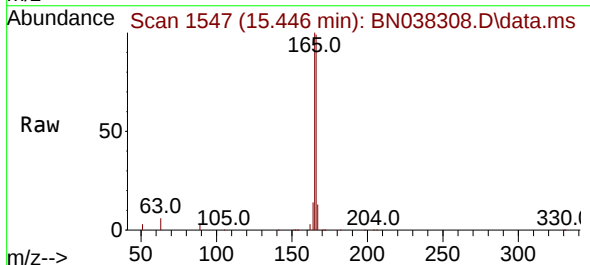
Instrument :  
BNA\_N  
ClientSampleId :

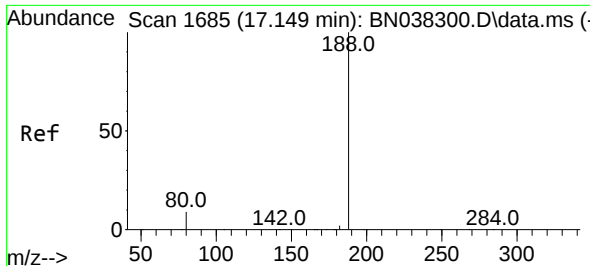
Tgt Ion:154 Resp: 31663  
Ion Ratio Lower Upper  
154 100  
153 114.8 89.8 134.8  
152 58.5 47.5 71.3



#18  
Fluorene  
Concen: 1.522 ng  
RT: 15.446 min Scan# 1547  
Delta R.T. -0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion:166 Resp: 57963  
Ion Ratio Lower Upper  
166 100  
165 100.9 80.2 120.4  
167 13.3 10.6 16.0

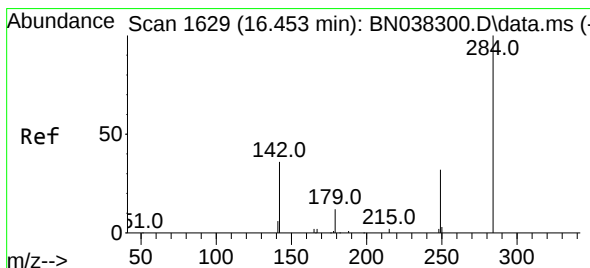
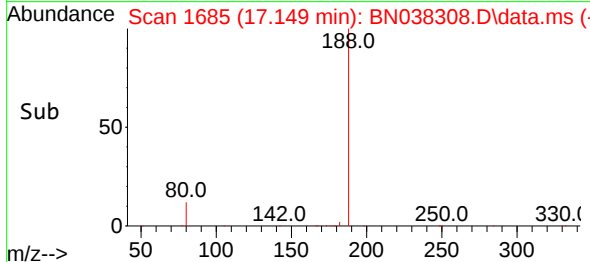
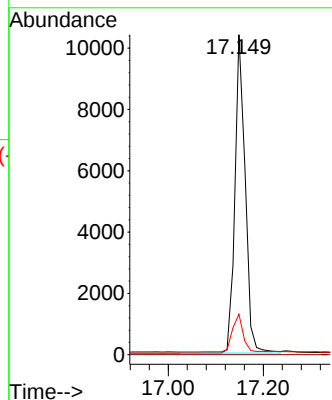
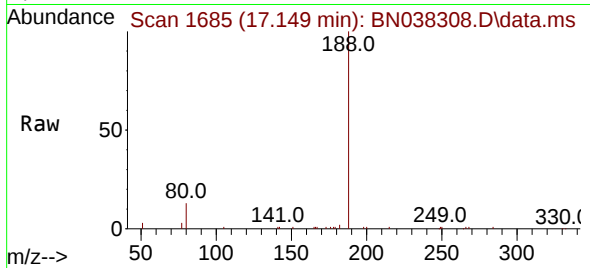




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.149 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

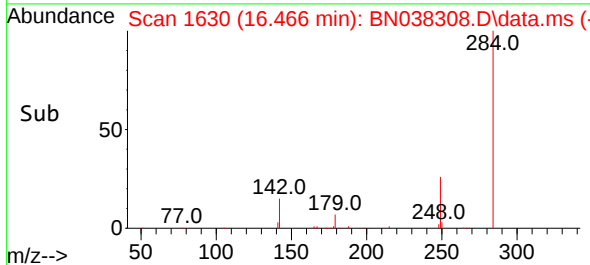
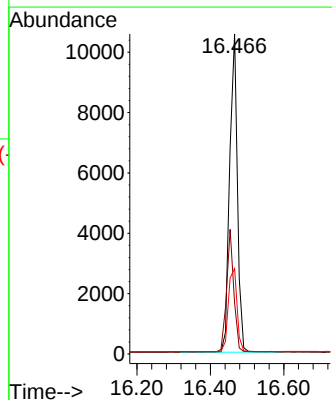
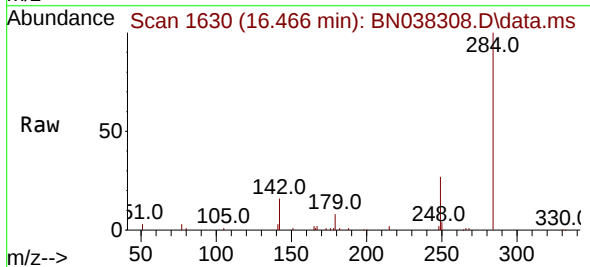
Instrument :  
BNA\_N  
ClientSampleId :

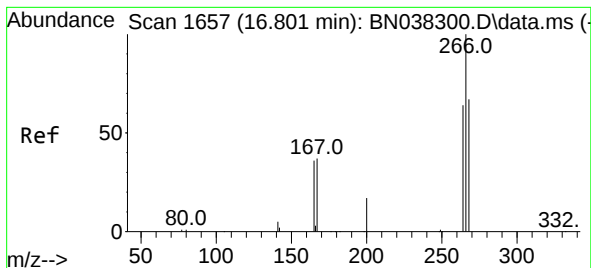
Tgt Ion:188 Resp: 15536  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.7 7.4 11.0#



#22  
Hexachlorobenzene  
Concen: 1.113 ng  
RT: 16.466 min Scan# 1630  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion:284 Resp: 15423  
Ion Ratio Lower Upper  
284 100  
142 35.8 29.5 44.3  
249 29.5 23.7 35.5





#24

Pentachlorophenol

Concen: 1.029 ng

RT: 16.801 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

Instrument :

BNA\_N

ClientSampleId :

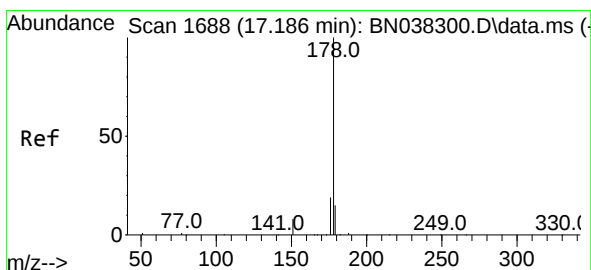
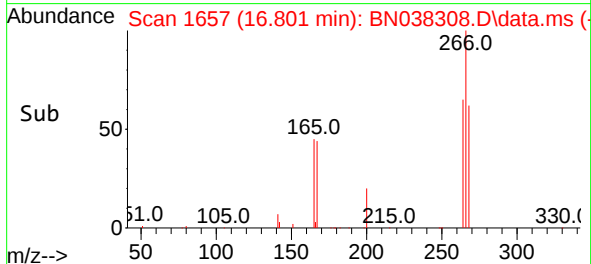
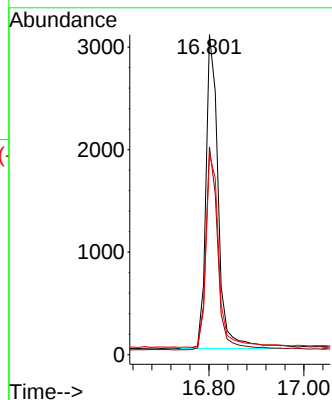
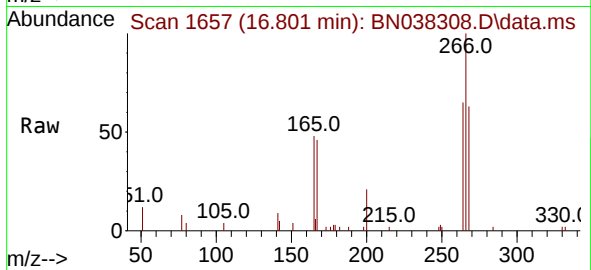
Tgt Ion:266 Resp: 5563

Ion Ratio Lower Upper

266 100

264 62.8 50.2 75.2

268 63.8 52.6 78.8



#25

Phenanthrene

Concen: 0.632 ng

RT: 17.285 min Scan# 1696

Delta R.T. 0.099 min

Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

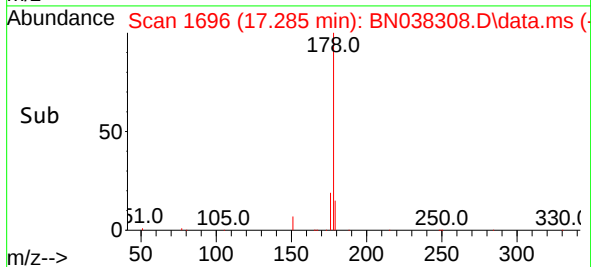
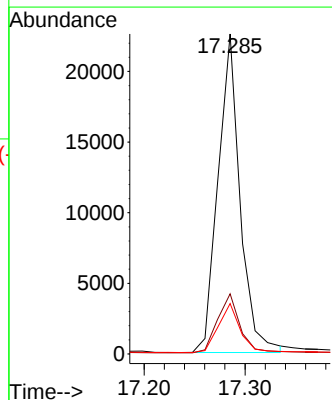
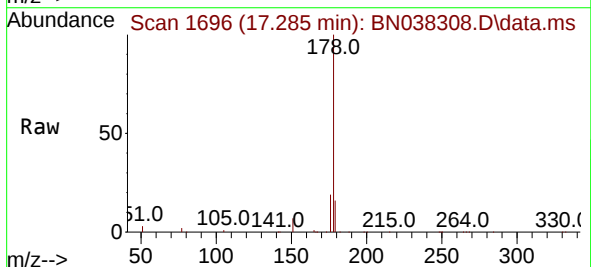
Tgt Ion:178 Resp: 34201

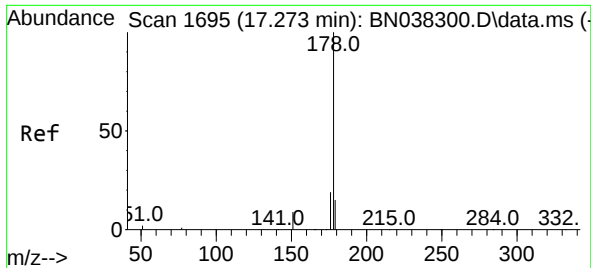
Ion Ratio Lower Upper

178 100

176 18.8 15.5 23.3

179 15.1 12.2 18.2

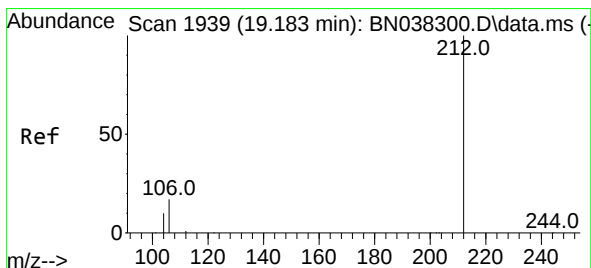
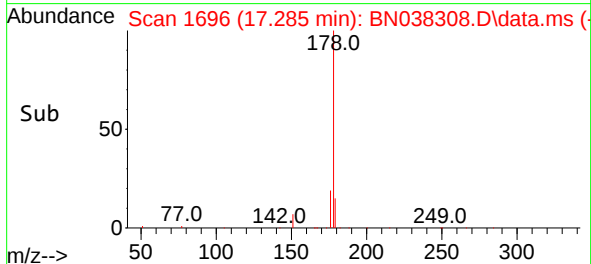
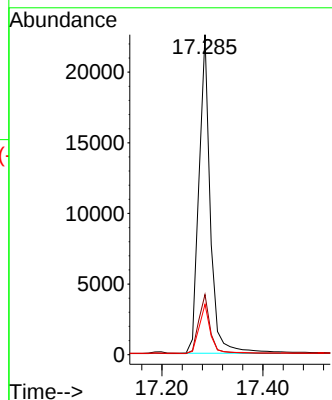
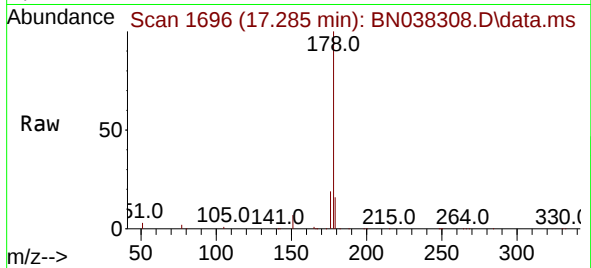




#26  
 Anthracene  
 Concen: 0.758 ng  
 RT: 17.285 min Scan# 1696  
 Delta R.T. 0.000 min  
 Lab File: BN038308.D  
 Acq: 10 Dec 2025 15:54

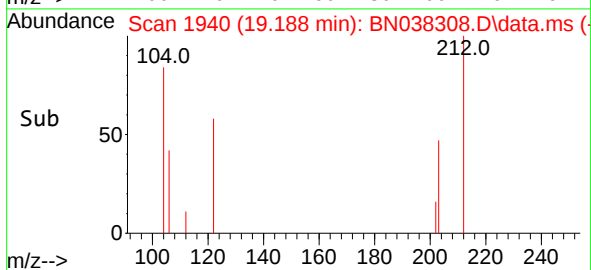
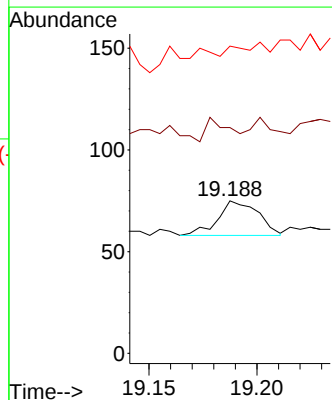
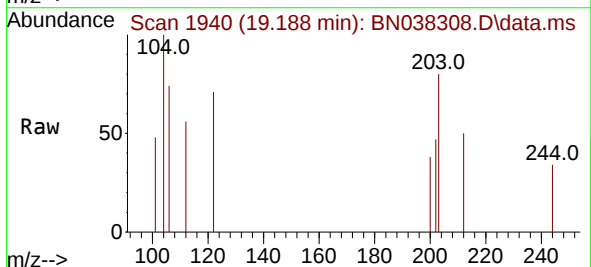
Instrument :  
 BNA\_N  
 ClientSampleId :

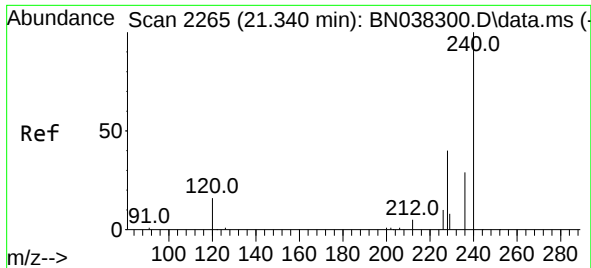
Tgt Ion:178 Resp: 35324  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.1 22.7  
 179 15.1 12.0 18.0



#27  
 Fluoranthene-d10  
 Concen: 0.001 ng  
 RT: 19.188 min Scan# 1940  
 Delta R.T. 0.000 min  
 Lab File: BN038308.D  
 Acq: 10 Dec 2025 15:54

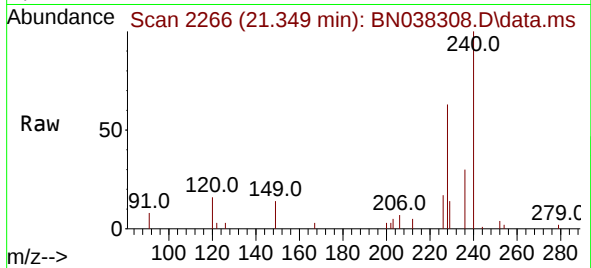
Tgt Ion:212 Resp: 22  
 Ion Ratio Lower Upper  
 212 100  
 106 36.4 13.7 20.5#  
 104 13.6 7.8 11.8#



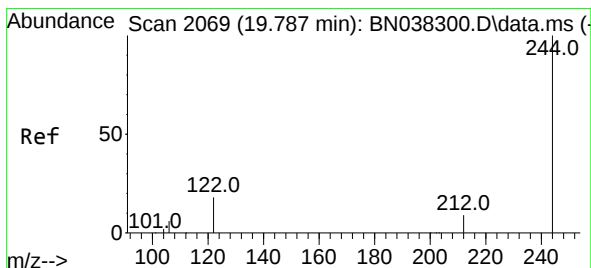
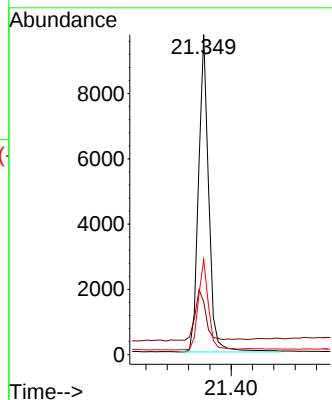
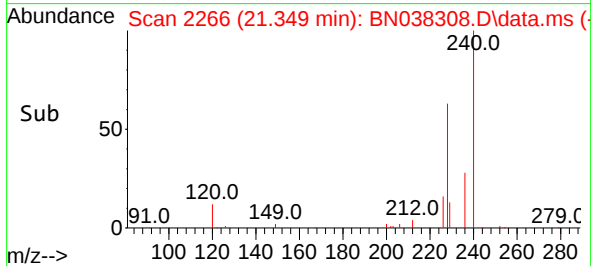


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.349 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

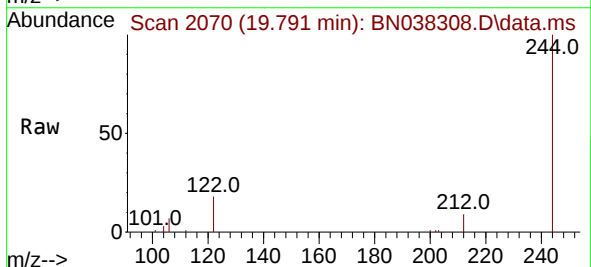
Instrument :  
BNA\_N  
ClientSampleId :



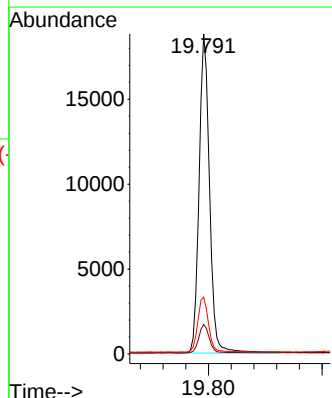
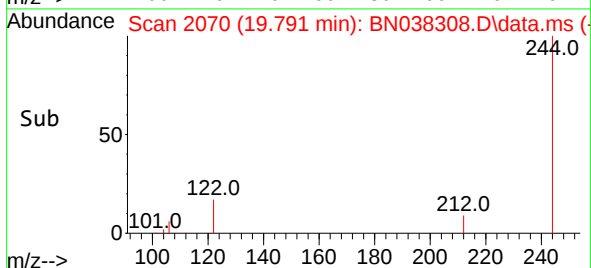
Tgt Ion:240 Resp: 12910  
Ion Ratio Lower Upper  
240 100  
120 16.5 15.4 23.2  
236 29.7 23.9 35.9

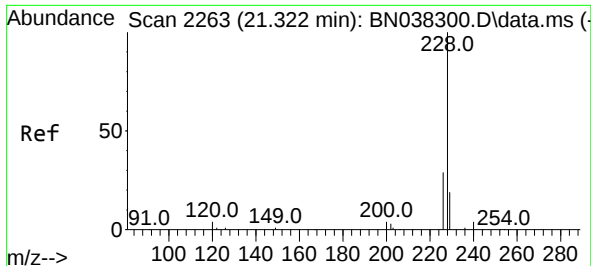


#31  
Terphenyl-d14  
Concen: 0.833 ng  
RT: 19.791 min Scan# 2070  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54



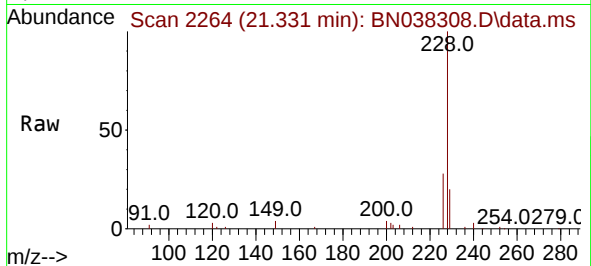
Tgt Ion:244 Resp: 23987  
Ion Ratio Lower Upper  
244 100  
212 9.2 7.9 11.9  
122 17.7 15.0 22.6



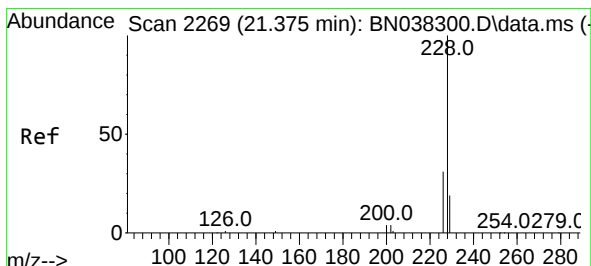
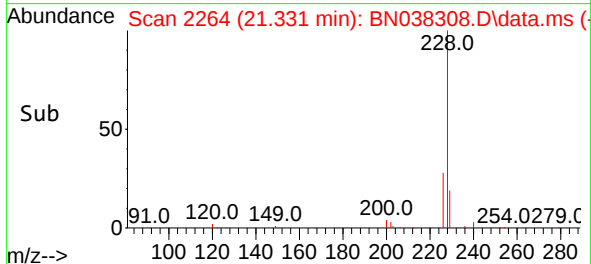
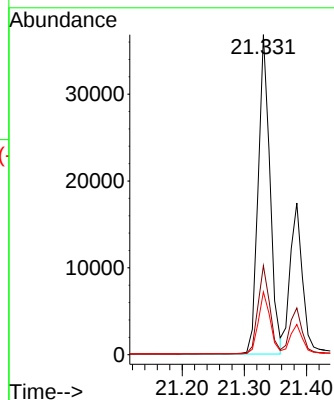


#32  
Benzo(a)anthracene  
Concen: 0.969 ng  
RT: 21.331 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Instrument :  
BNA\_N  
ClientSampleId :

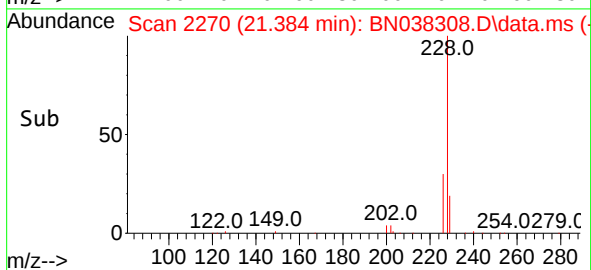
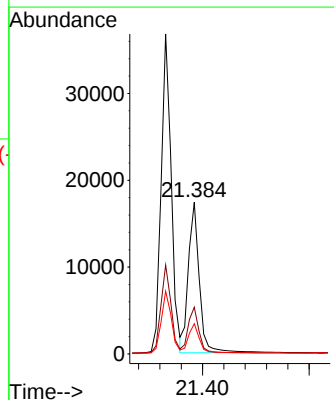
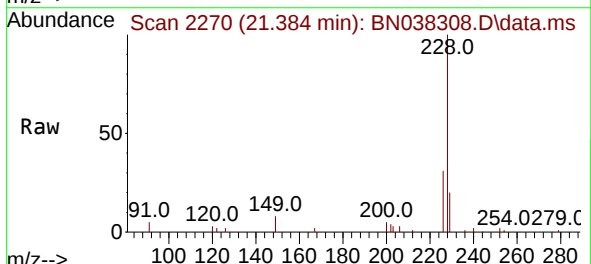


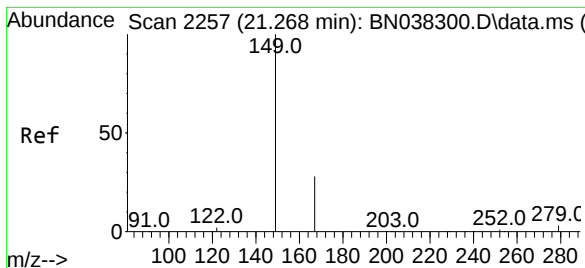
Tgt Ion:228 Resp: 48333  
Ion Ratio Lower Upper  
228 100  
226 27.8 23.3 34.9  
229 19.6 15.7 23.5



#33  
Chrysene  
Concen: 0.452 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. 0.009 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Tgt Ion:228 Resp: 24843  
Ion Ratio Lower Upper  
228 100  
226 30.8 25.0 37.4  
229 20.0 15.5 23.3

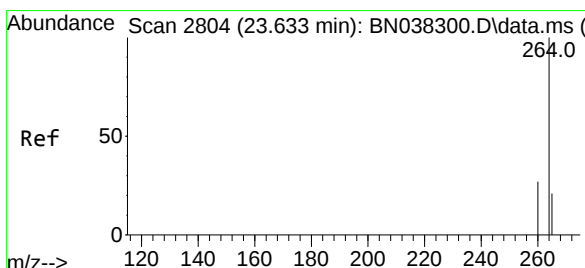
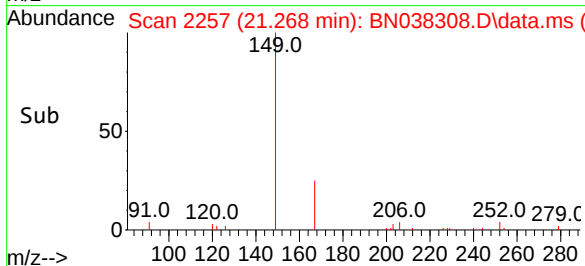
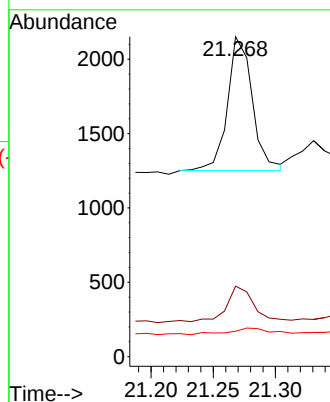
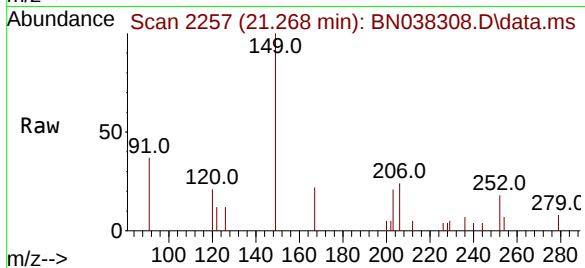




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.046 ng  
 RT: 21.268 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN038308.D  
 Acq: 10 Dec 2025 15:54

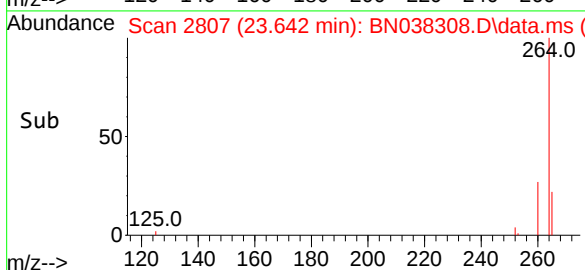
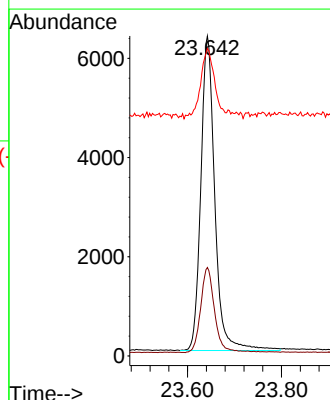
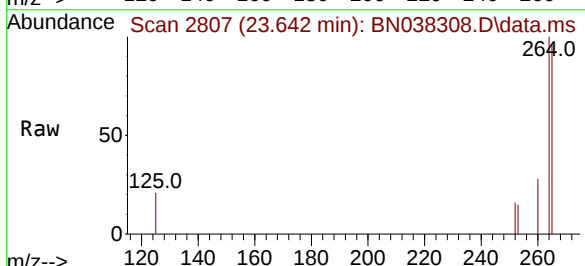
Instrument :  
 BNA\_N  
 ClientSampleId :

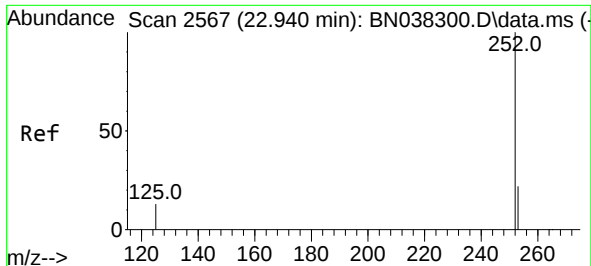
Tgt Ion:149 Resp: 1251  
 Ion Ratio Lower Upper  
 149 100  
 167 28.5 21.4 32.0  
 279 9.3 2.4 3.6#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.642 min Scan# 2807  
 Delta R.T. 0.009 min  
 Lab File: BN038308.D  
 Acq: 10 Dec 2025 15:54

Tgt Ion:264 Resp: 13075  
 Ion Ratio Lower Upper  
 264 100  
 260 27.6 22.2 33.2  
 265 96.1 80.2 120.2





#37

Benzo(b)fluoranthene

Concen: 0.487 ng

RT: 22.949 min Scan# 2570

Delta R.T. 0.003 min

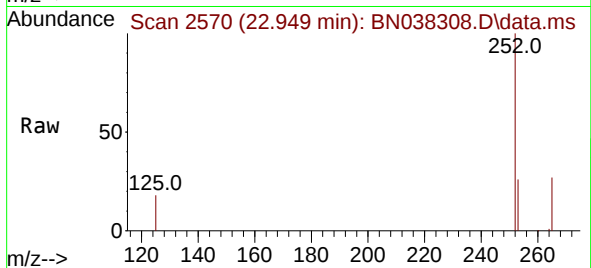
Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

Instrument :

BNA\_N

ClientSampleId :



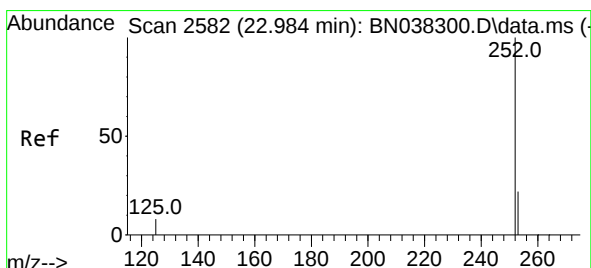
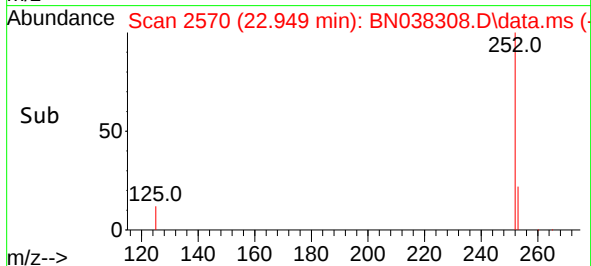
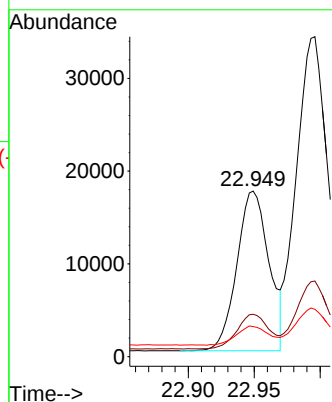
Tgt Ion:252 Resp: 29224

Ion Ratio Lower Upper

252 100

253 25.6 21.1 31.7

125 18.2 16.4 24.6



#38

Benzo(k)fluoranthene

Concen: 0.488 ng

RT: 22.949 min Scan# 2570

Delta R.T. -0.041 min

Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

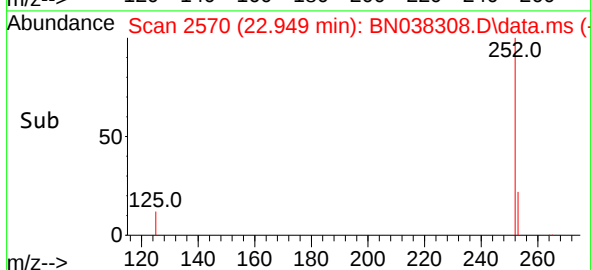
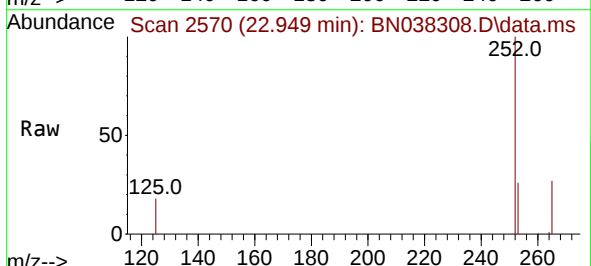
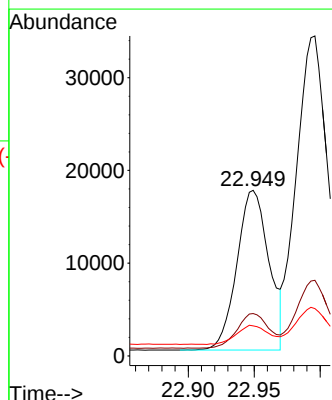
Tgt Ion:252 Resp: 29224

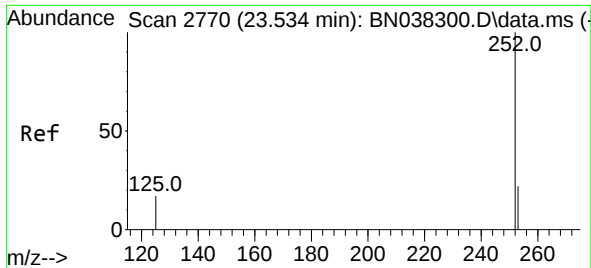
Ion Ratio Lower Upper

252 100

253 25.6 21.4 32.0

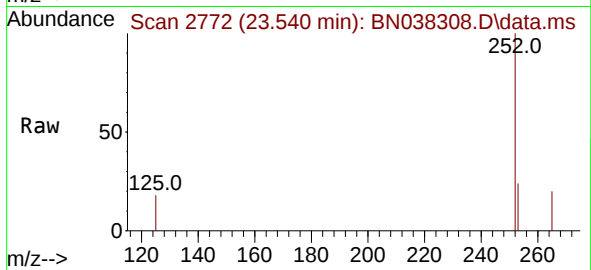
125 18.2 16.2 24.2





#39  
Benzo(a)pyrene  
Concen: 1.023 ng  
RT: 23.540 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BN038308.D  
Acq: 10 Dec 2025 15:54

Instrument :  
BNA\_N  
ClientSampleId :



Tgt Ion:252 Resp: 50254  
Ion Ratio Lower Upper  
252 100  
253 24.4 23.3 34.9  
125 17.8 22.4 33.6#

