

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120324\  
 Data File : BF140722.D  
 Acq On : 03 Dec 2024 20:10  
 Operator : RC/JU  
 Sample : P5048-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-746-WC

Quant Time: Dec 03 22:16:01 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 21 15:23:48 2024  
 Response via : Initial Calibration

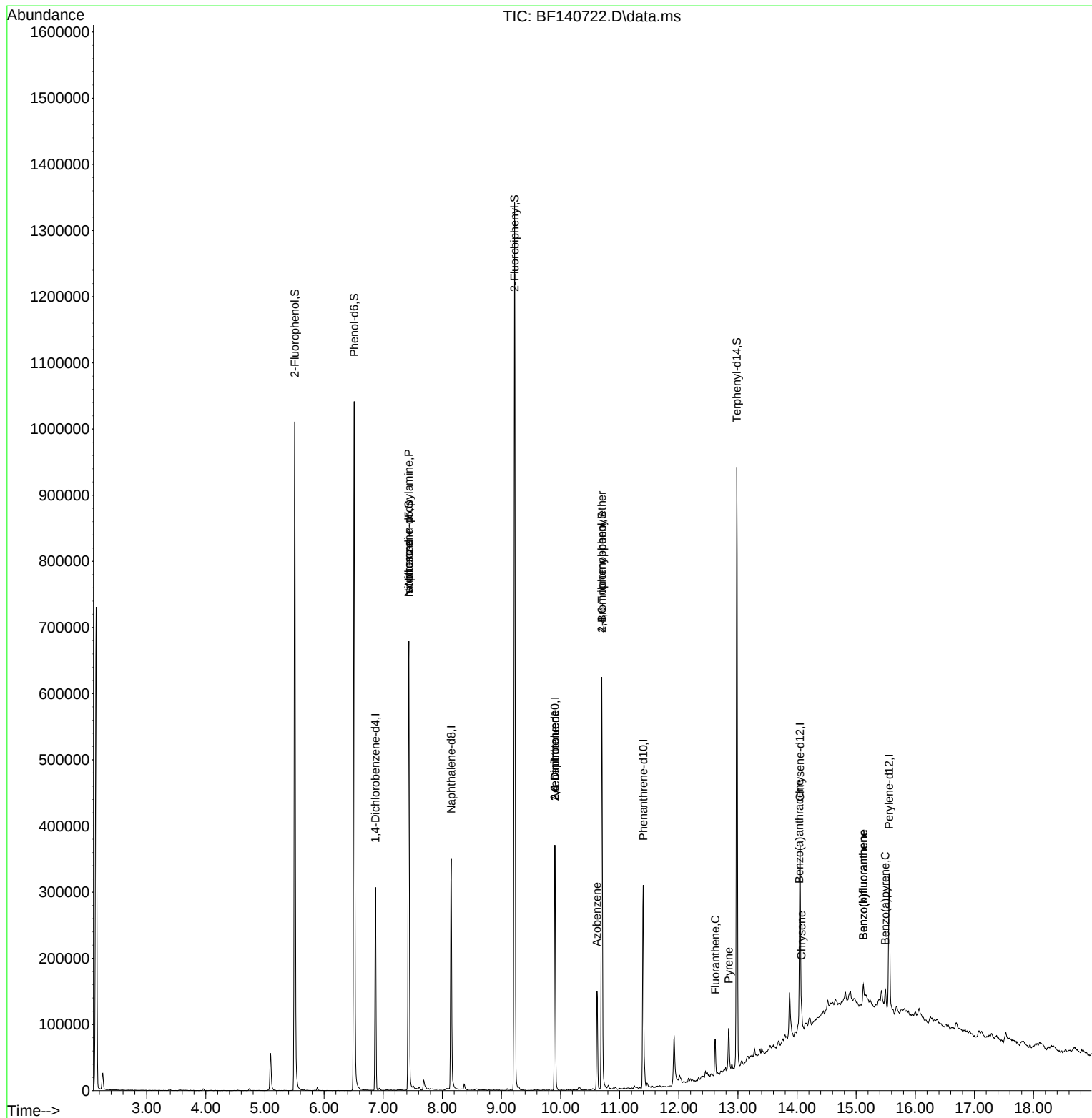
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 63853    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 232646   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.904  | 164  | 114296   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.398 | 188  | 170686   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 132558   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.557 | 264  | 120586   | 20.000  | ng    | 0.02     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.504  | 112  | 385584   | 103.031 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 496520   | 100.357 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 321181   | 70.616  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 109786   | 89.812  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 585166   | 76.281  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 438144   | 51.468  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.434  | 70   | 42440    | 14.514  | ng    | # 76     |
| 25) Isophorone                | 7.434  | 82   | 316353   | 41.701  | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.904  | 165  | 14107    | 8.263   | ng    | # 20     |
| 57) 2,4-Dinitrotoluene        | 9.904  | 165  | 14107    | 6.218   | ng    | # 17     |
| 63) Azobenzene                | 10.616 | 77   | 39491    | 5.453   | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.698 | 248  | 6895     | 3.923   | ng    | # 1      |
| 75) Fluoranthene              | 12.616 | 202  | 29971    | 3.364   | ng    | 99       |
| 78) Pyrene                    | 12.845 | 202  | 35602    | 2.905   | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 18154    | 2.069   | ng    | # 87     |
| 83) Chrysene                  | 14.074 | 228  | 16211    | 2.020   | ng    | # 88     |
| 88) Benzo(b)fluoranthene      | 15.121 | 252  | 25505    | 3.367   | ng    | # 87     |
| 89) Benzo(k)fluoranthene      | 15.121 | 252  | 25505    | 3.848   | ng    | # 87     |
| 90) Benzo(a)pyrene            | 15.492 | 252  | 15833    | 2.571   | ng    | # 85     |
| -----                         |        |      |          |         |       |          |

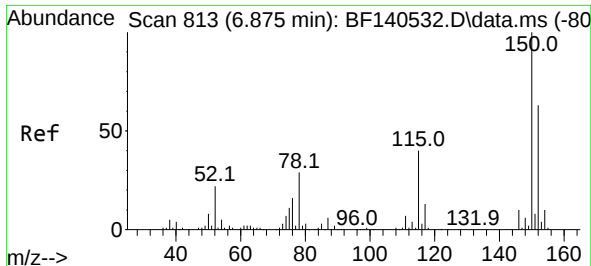
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120324\  
Data File : BF140722.D  
Acq On : 03 Dec 2024 20:10  
Operator : RC/JU  
Sample : P5048-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MH-746-WC

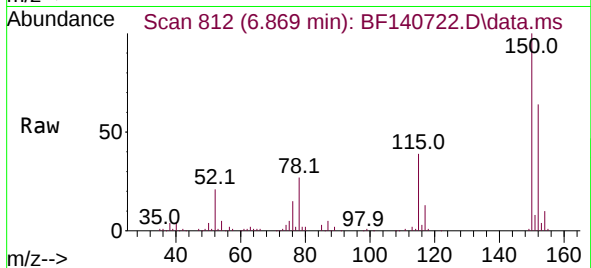
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 21 15:23:48 2024  
Response via : Initial Calibration



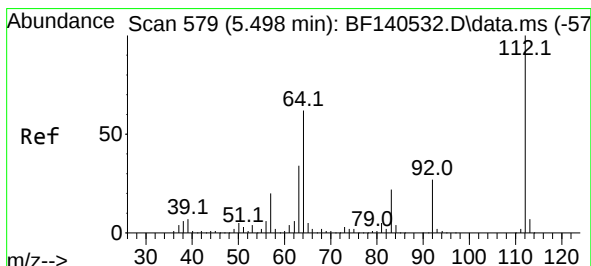
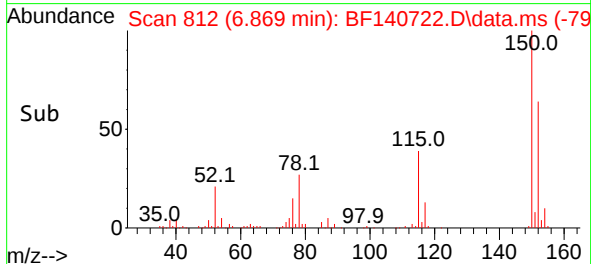
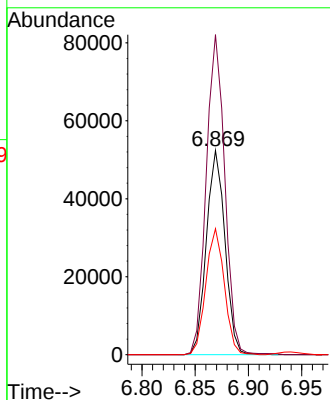


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 813  
Delta R.T. -0.006 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
MH-746-WC

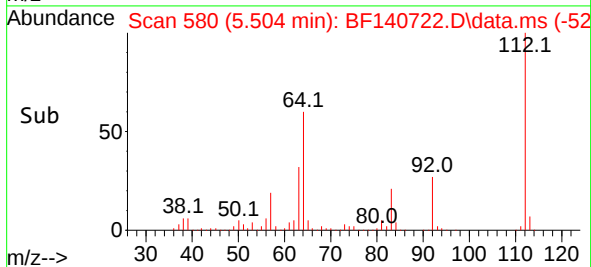
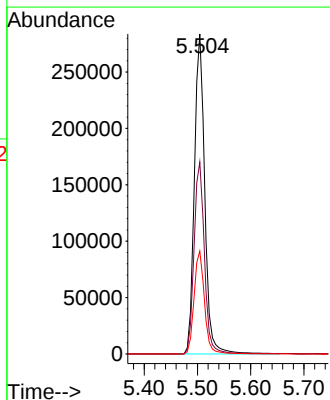
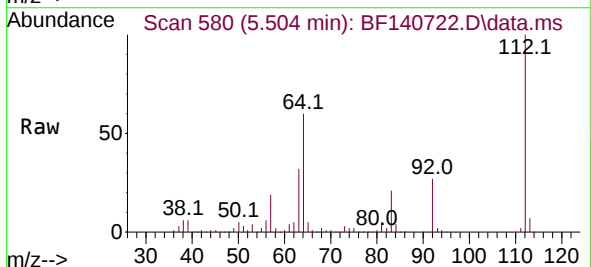


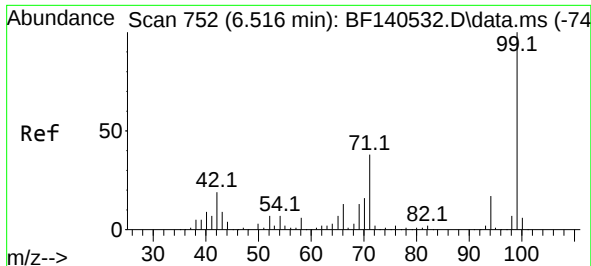
Tgt Ion:152 Resp: 63853  
Ion Ratio Lower Upper  
152 100  
150 156.8 128.5 192.7  
115 61.7 50.2 75.4



#5  
2-Fluorophenol  
Concen: 103.031 ng  
RT: 5.504 min Scan# 580  
Delta R.T. 0.006 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

Tgt Ion:112 Resp: 385584  
Ion Ratio Lower Upper  
112 100  
64 60.0 49.2 73.8  
63 32.1 27.0 40.4





#7

Phenol-d6

Concen: 100.357 ng

RT: 6.510 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

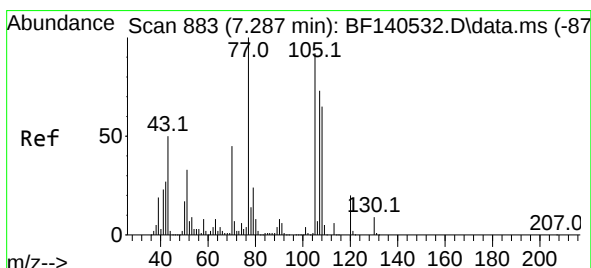
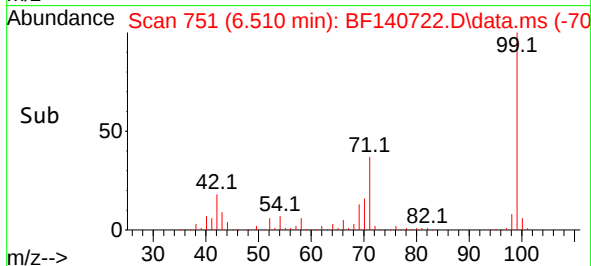
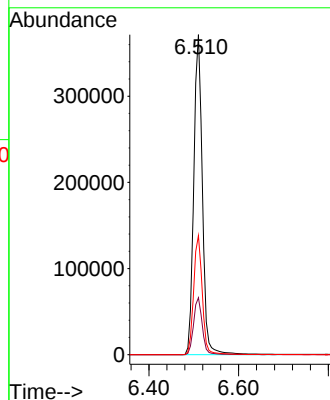
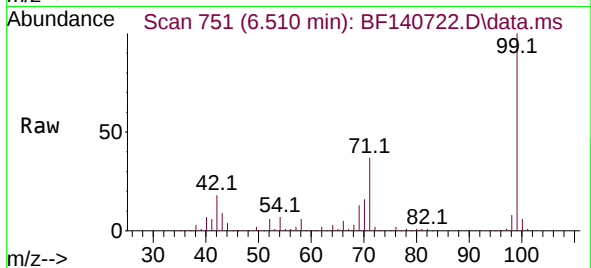
Tgt Ion: 99 Resp: 496520

Ion Ratio Lower Upper

99 100

42 17.8 15.4 23.0

71 37.2 30.6 46.0



#19

n-Nitroso-di-n-propylamine

Concen: 14.514 ng

RT: 7.434 min Scan# 908

Delta R.T. 0.147 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Tgt Ion: 70 Resp: 42440

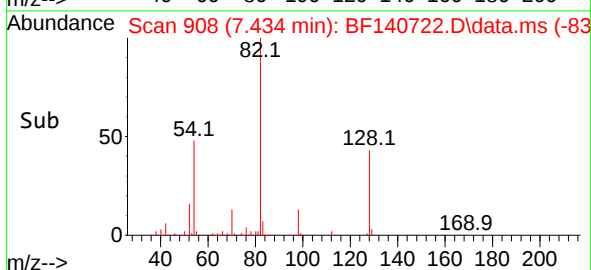
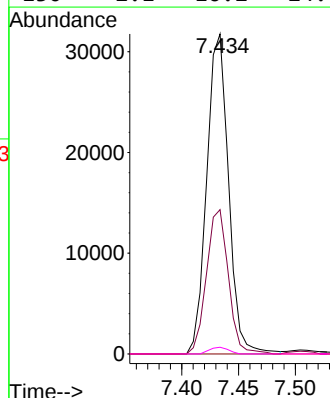
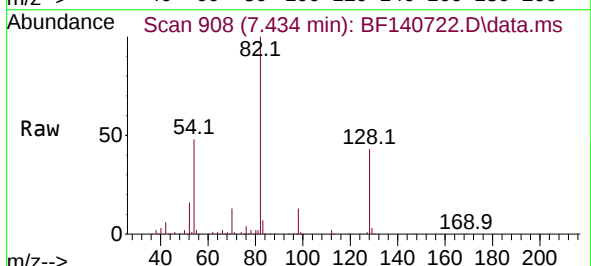
Ion Ratio Lower Upper

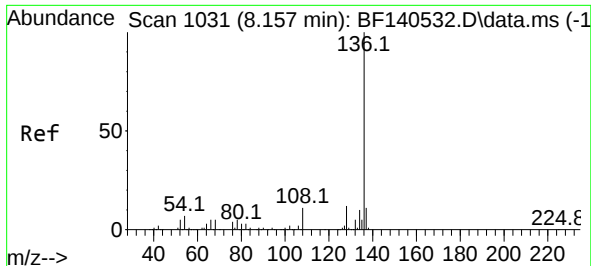
70 100

42 45.1 47.6 71.4#

101 0.0 7.6 11.4#

130 2.1 16.2 24.4#



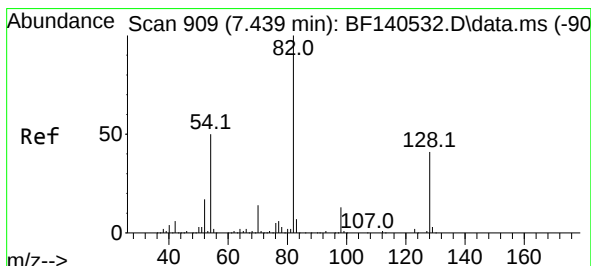
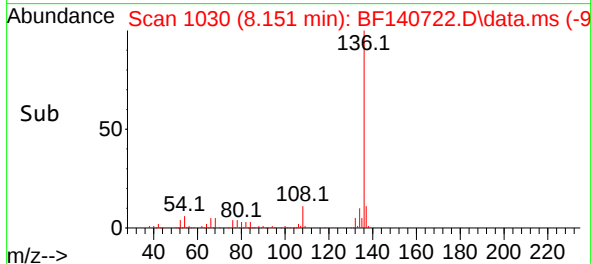
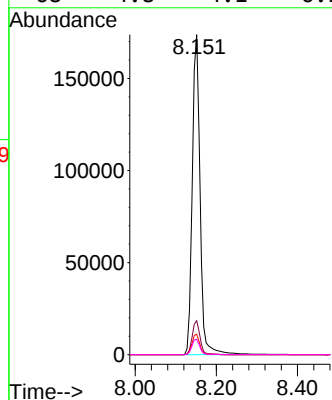
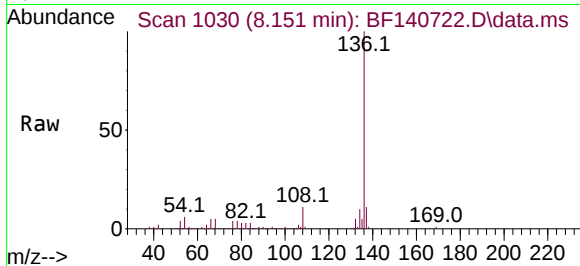


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
MH-746-WC

Tgt Ion:136 Resp: 232646

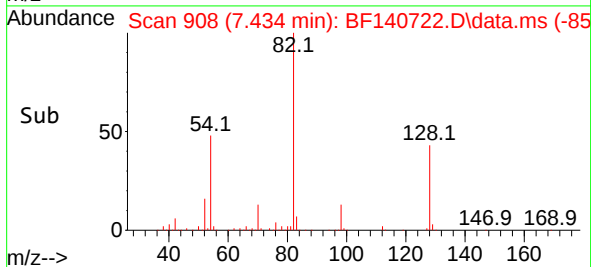
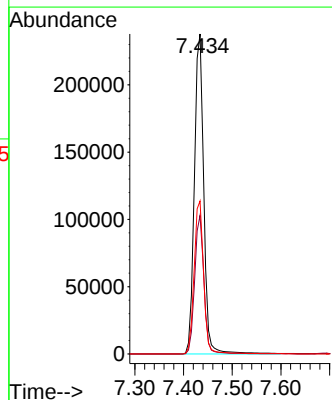
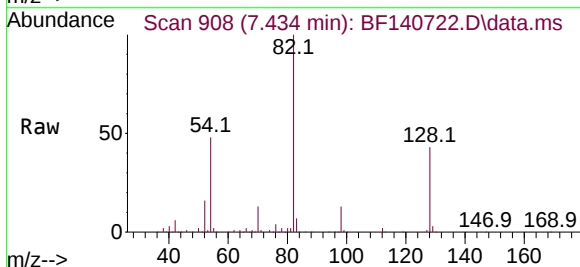
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.6  | 8.6   | 13.0  |
| 54  | 6.4   | 5.8   | 8.8   |
| 68  | 4.8   | 4.1   | 6.1   |

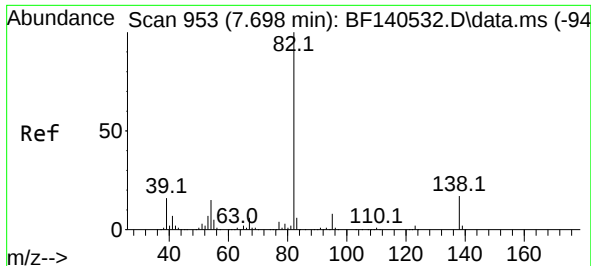


#23  
Nitrobenzene-d5  
Concen: 70.616 ng  
RT: 7.434 min Scan# 908  
Delta R.T. -0.006 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

Tgt Ion: 82 Resp: 321181

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 43.3  | 33.0  | 49.4  |
| 54  | 47.8  | 39.5  | 59.3  |

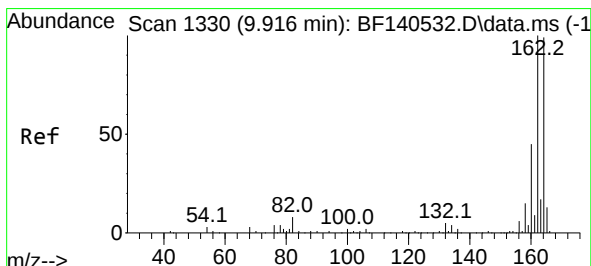
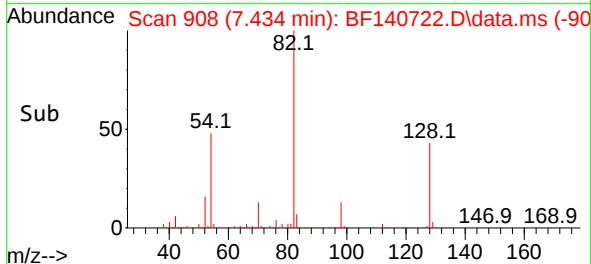
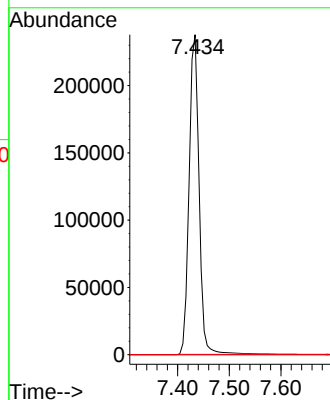
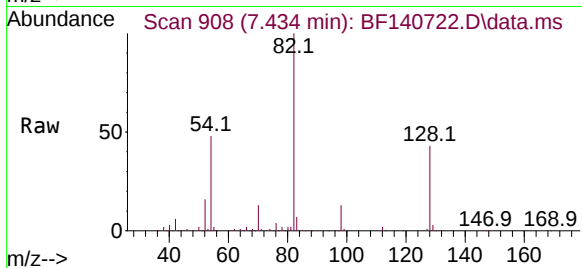




#25  
Isophorone  
Concen: 41.701 ng  
RT: 7.434 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

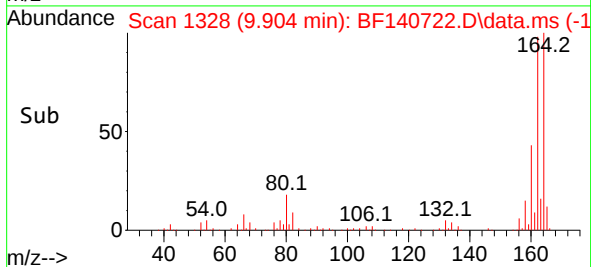
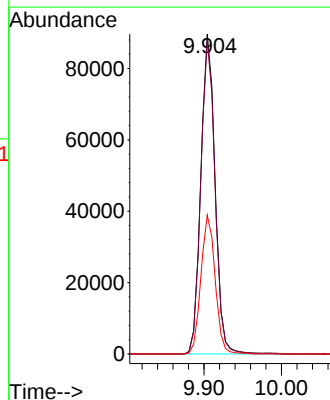
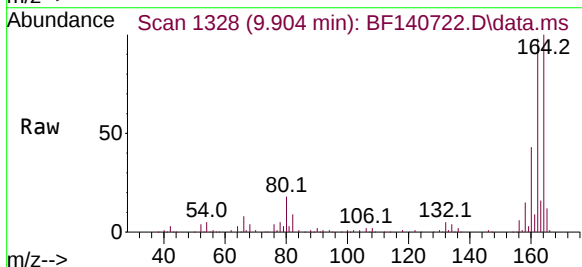
Instrument :  
BNA\_F  
ClientSampleId :  
MH-746-WC

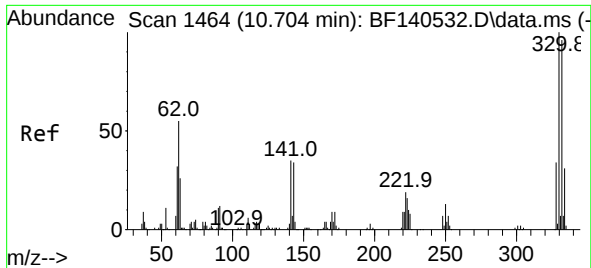
Tgt Ion: 82 Resp: 316353  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.4 9.6#  
138 0.0 13.8 20.6#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.904 min Scan# 1328  
Delta R.T. -0.012 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

Tgt Ion: 164 Resp: 114296  
Ion Ratio Lower Upper  
164 100  
162 98.1 80.6 120.8  
160 43.4 36.2 54.4

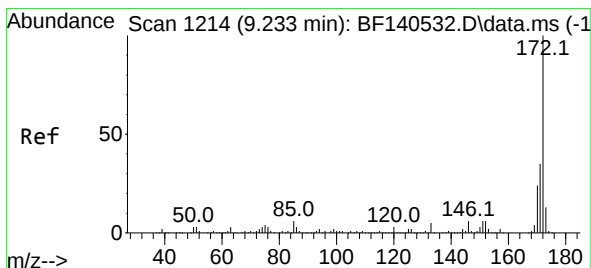
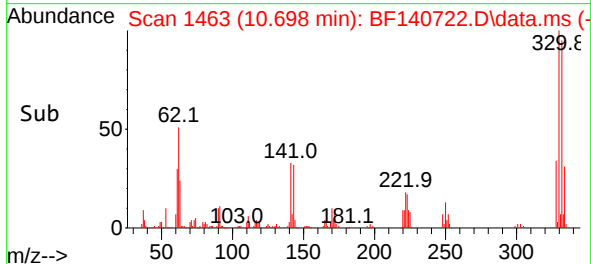
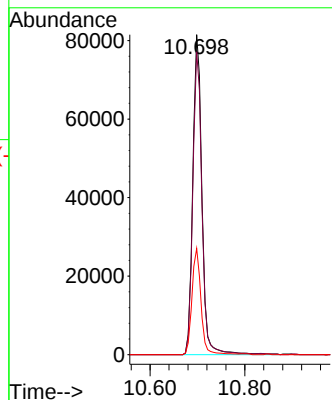
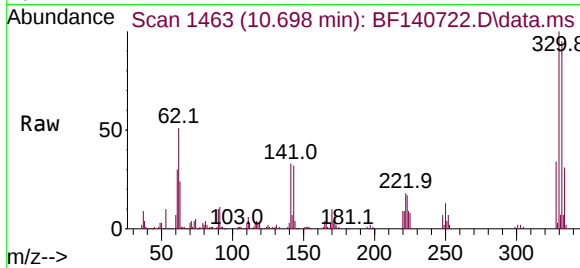




#42  
 2,4,6-Tribromophenol  
 Concen: 89.812 ng  
 RT: 10.698 min Scan# 1463  
 Delta R.T. -0.006 min  
 Lab File: BF140722.D  
 Acq: 03 Dec 2024 20:10

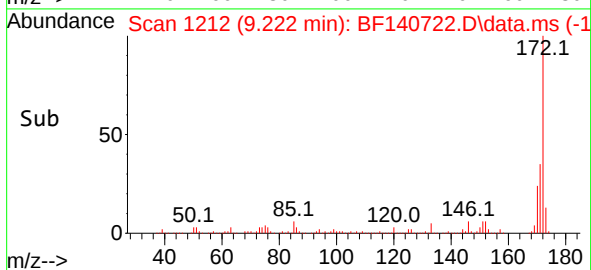
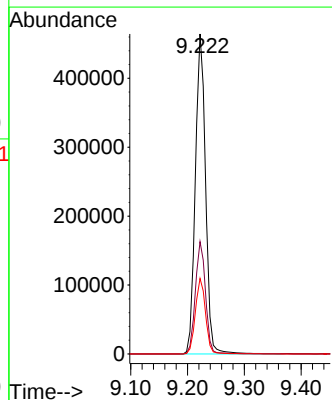
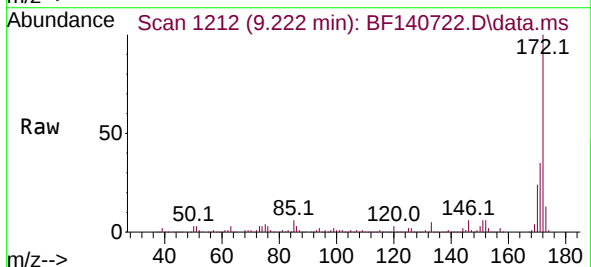
Instrument :  
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 ClientSampleId :  
 MH-746-WC

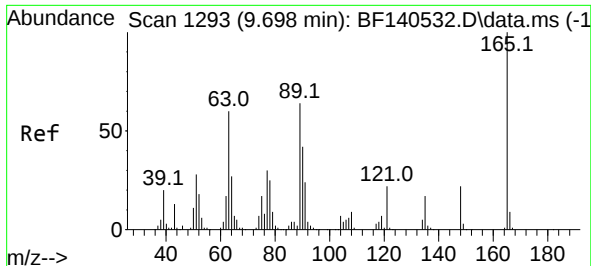
Tgt Ion: 330 Resp: 109786  
 Ion Ratio Lower Upper  
 330 100  
 332 94.4 76.9 115.3  
 141 32.7 26.7 40.1



#45  
 2-Fluorobiphenyl  
 Concen: 76.281 ng  
 RT: 9.222 min Scan# 1212  
 Delta R.T. -0.012 min  
 Lab File: BF140722.D  
 Acq: 03 Dec 2024 20:10

Tgt Ion: 172 Resp: 585166  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 28.4 42.6  
 170 23.6 19.0 28.6





#51

2,6-Dinitrotoluene

Concen: 8.263 ng

RT: 9.904 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

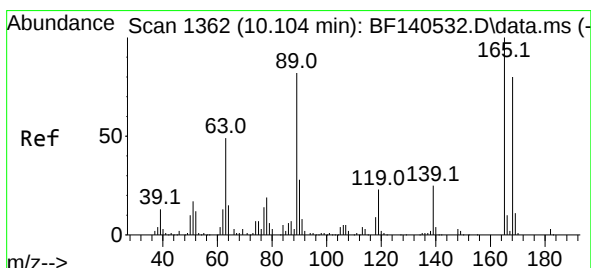
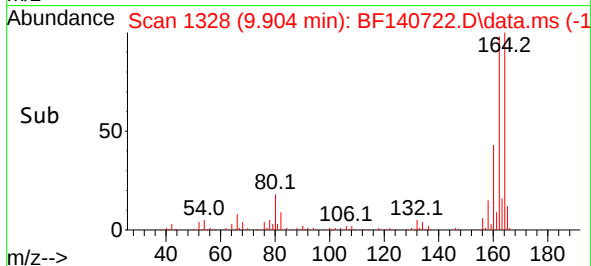
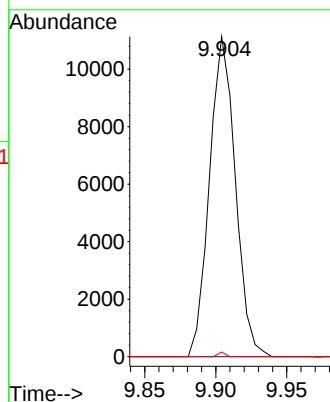
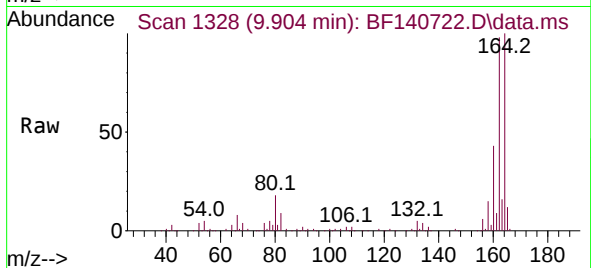
Tgt Ion:165 Resp: 14107

Ion Ratio Lower Upper

165 100

63 0.0 49.9 74.9#

89 1.4 50.9 76.3#



#57

2,4-Dinitrotoluene

Concen: 6.218 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.200 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Tgt Ion:165 Resp: 14107

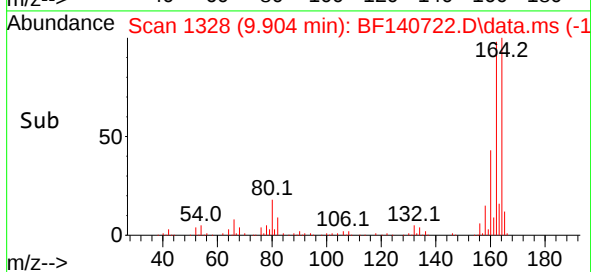
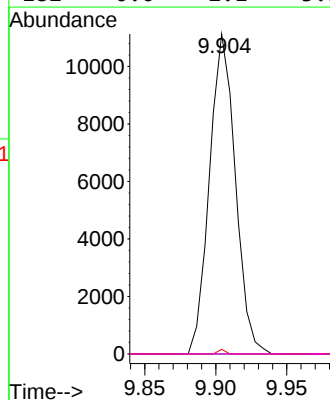
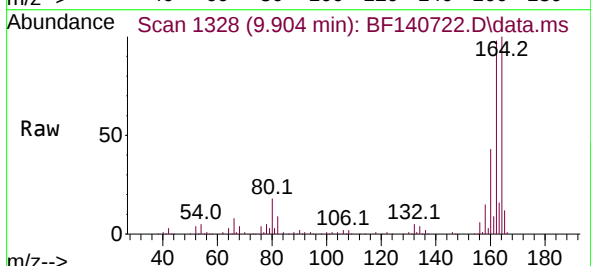
Ion Ratio Lower Upper

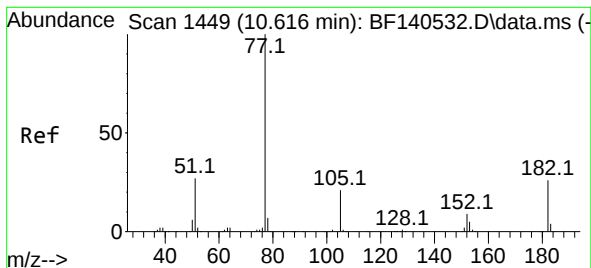
165 100

63 0.0 41.7 62.5#

89 1.4 65.8 98.8#

182 0.0 2.1 3.1#





#63

Azobenzene

Concen: 5.453 ng

RT: 10.616 min Scan# 1449

Delta R.T. 0.000 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

Tgt Ion: 77 Resp: 39491

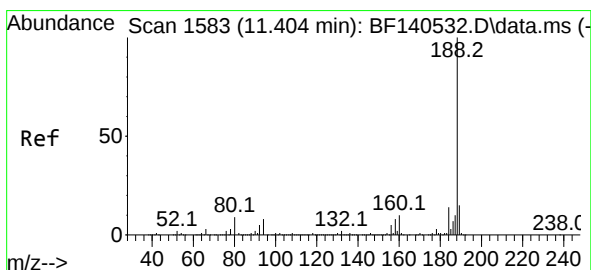
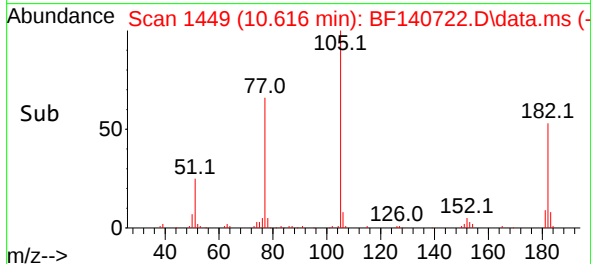
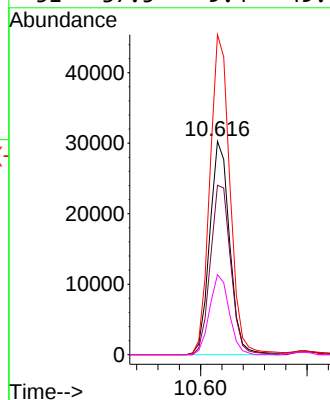
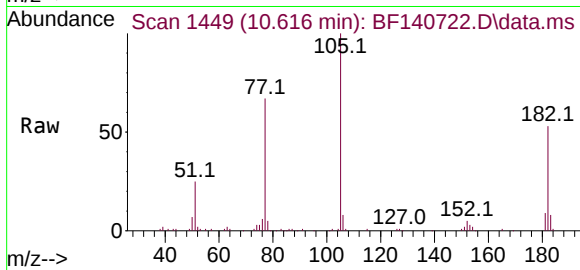
Ion Ratio Lower Upper

77 100

182 79.4 5.3 45.3#

105 150.0 0.3 40.3#

51 37.5 9.4 49.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

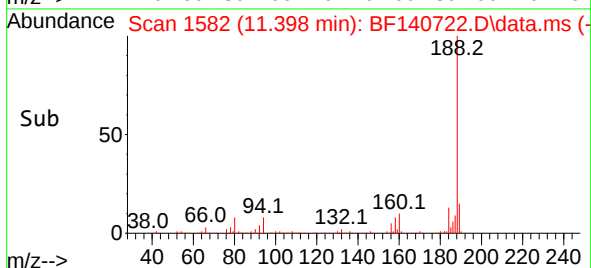
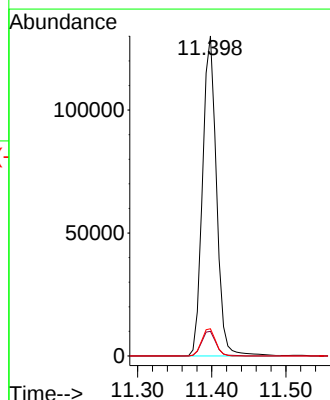
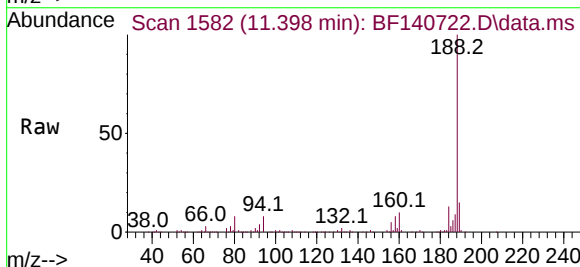
Tgt Ion: 188 Resp: 170686

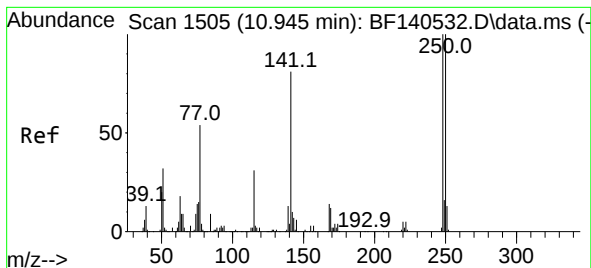
Ion Ratio Lower Upper

188 100

94 7.7 6.4 9.6

80 8.5 6.9 10.3

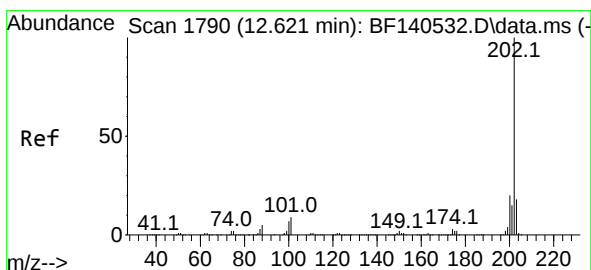
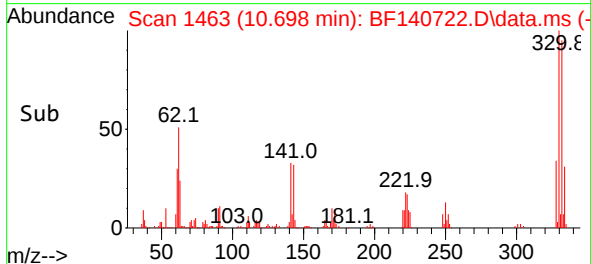
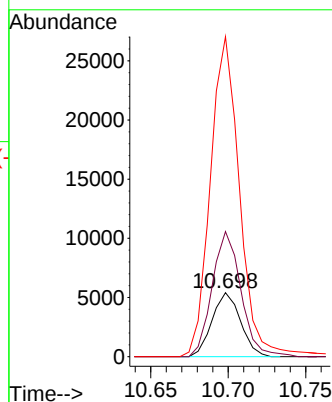
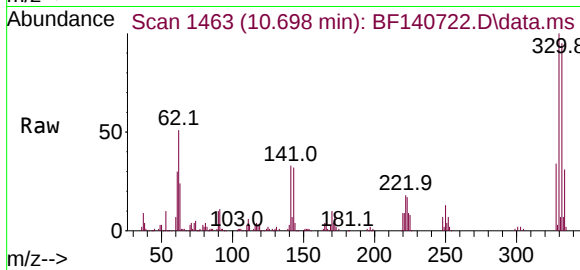




#67  
4-Bromophenyl-phenylether  
Concen: 3.923 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.247 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

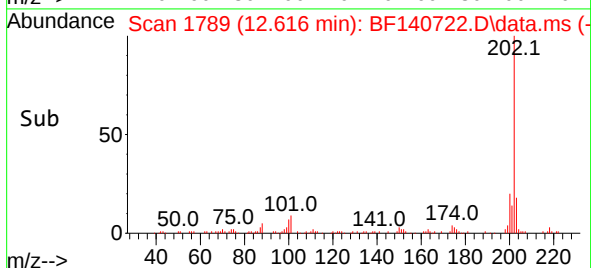
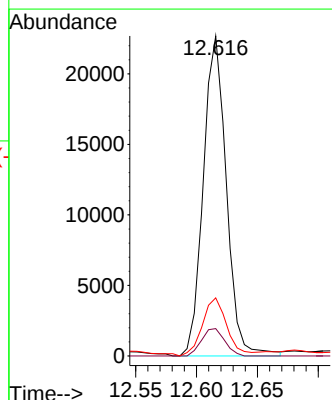
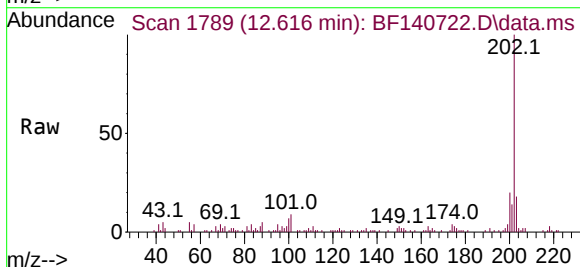
Instrument :  
BNA\_F  
ClientSampleId :  
MH-746-WC

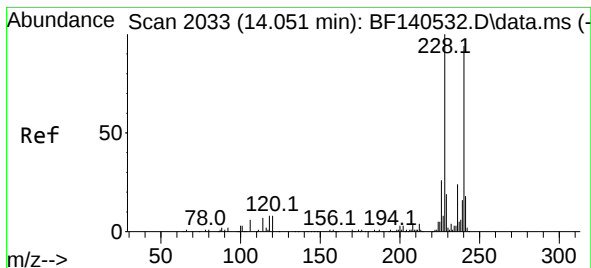
Tgt Ion:248 Resp: 6895  
Ion Ratio Lower Upper  
248 100  
250 195.4 79.8 119.8#  
141 499.5 64.7 97.1#



#75  
Fluoranthene  
Concen: 3.364 ng  
RT: 12.616 min Scan# 1789  
Delta R.T. -0.006 min  
Lab File: BF140722.D  
Acq: 03 Dec 2024 20:10

Tgt Ion:202 Resp: 29971  
Ion Ratio Lower Upper  
202 100  
101 8.5 0.0 28.9  
203 18.1 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2033

Delta R.T. 0.000 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

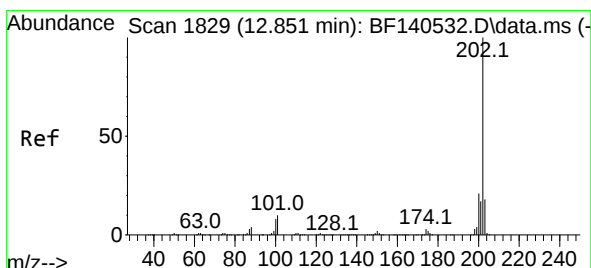
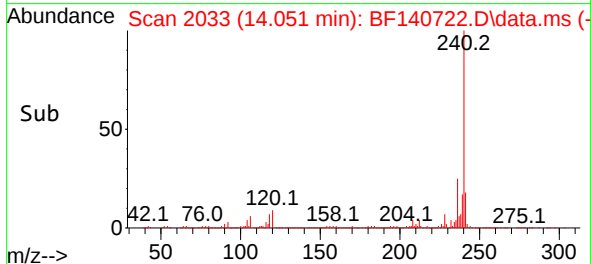
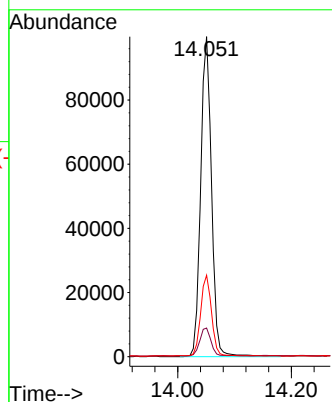
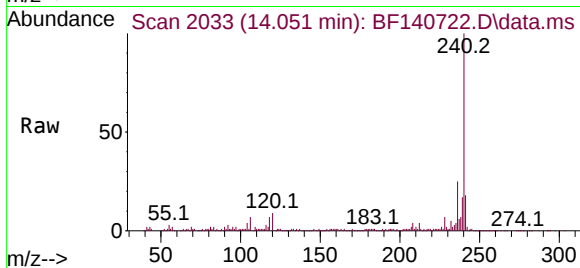
Tgt Ion:240 Resp: 132558

Ion Ratio Lower Upper

240 100

120 8.9 7.3 10.9

236 25.5 20.6 31.0



#78

Pyrene

Concen: 2.905 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.006 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

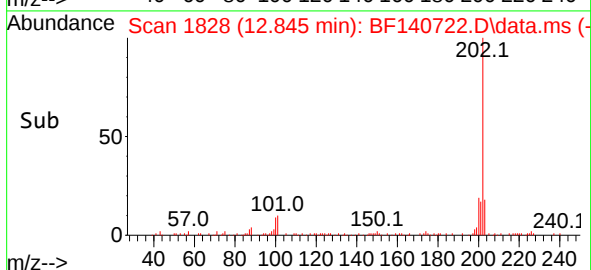
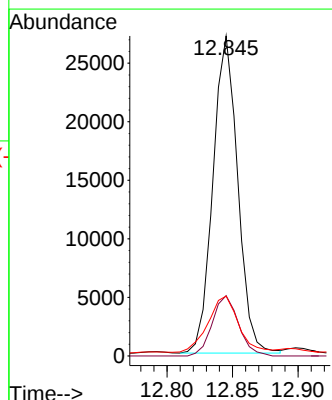
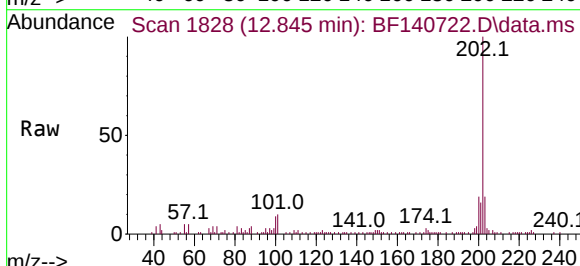
Tgt Ion:202 Resp: 35602

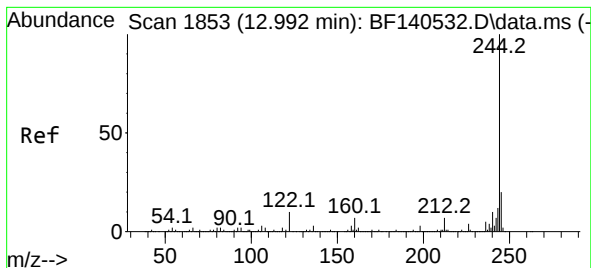
Ion Ratio Lower Upper

202 100

200 18.9 16.5 24.7

203 18.7 14.2 21.4





#79

Terphenyl-d14

Concen: 51.468 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.012 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

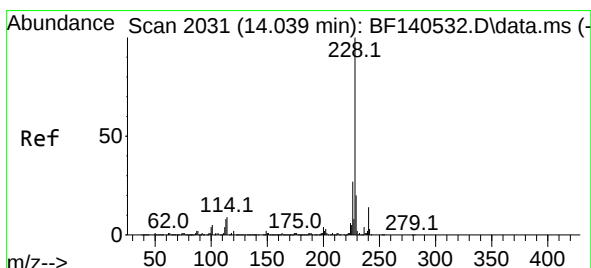
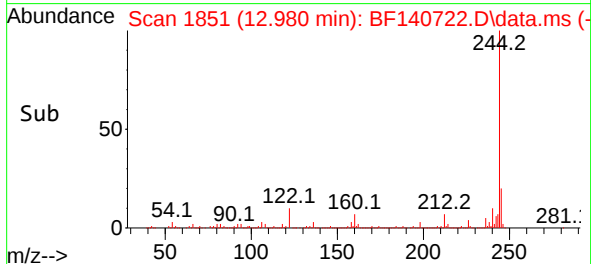
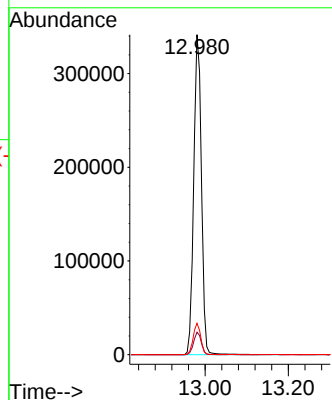
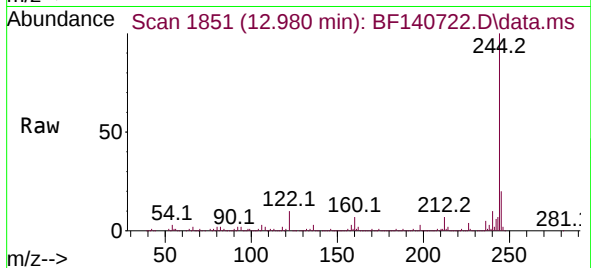
Tgt Ion:244 Resp: 438144

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

122 9.8 8.0 12.0



#81

Benzo(a)anthracene

Concen: 2.069 ng

RT: 14.039 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

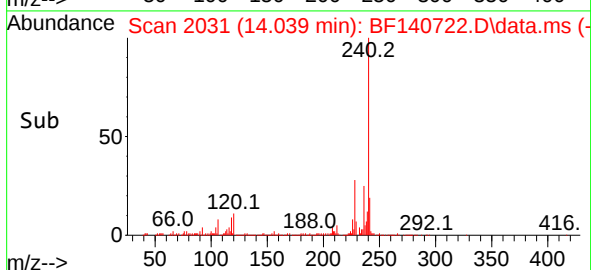
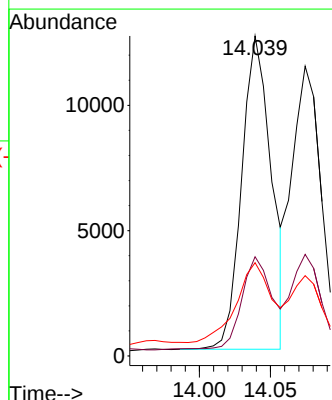
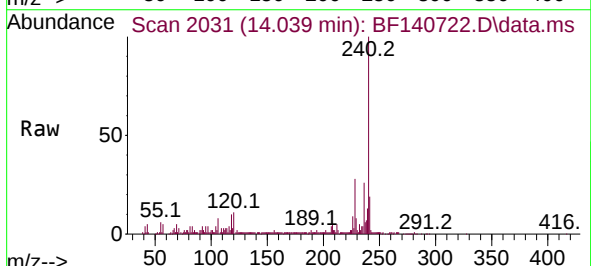
Tgt Ion:228 Resp: 18154

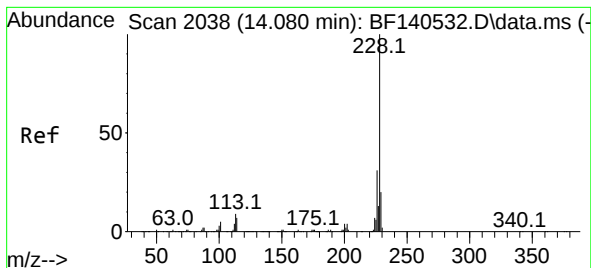
Ion Ratio Lower Upper

228 100

226 31.0 21.8 32.8

229 29.1 15.8 23.6#





#83

Chrysene

Concen: 2.020 ng

RT: 14.074 min Scan# 2038

Delta R.T. -0.006 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

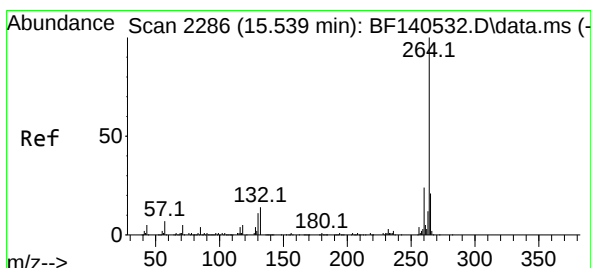
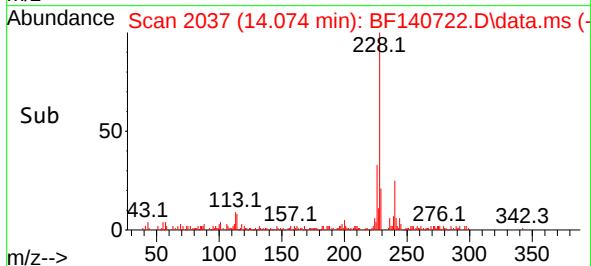
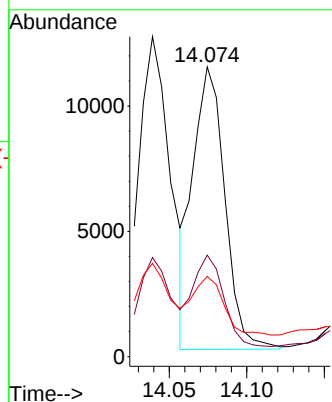
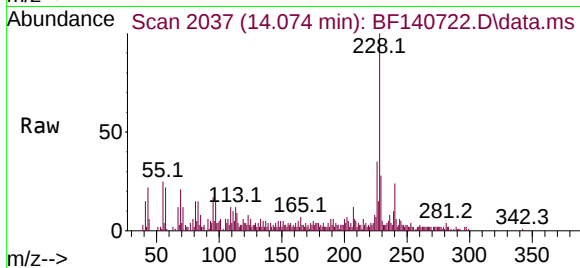
Tgt Ion:228 Resp: 16211

Ion Ratio Lower Upper

228 100

226 35.1 24.4 36.6

229 27.7 15.8 23.6#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2289

Delta R.T. 0.018 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

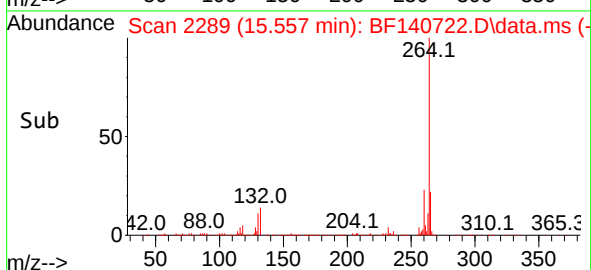
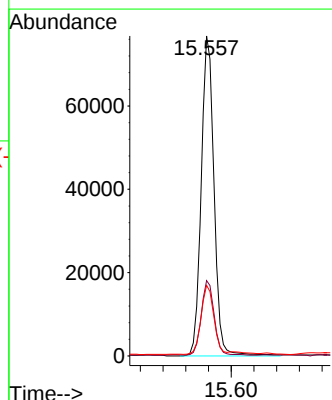
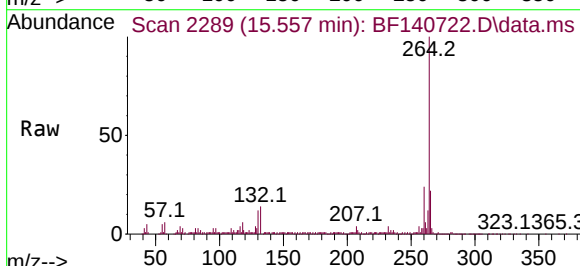
Tgt Ion:264 Resp: 120586

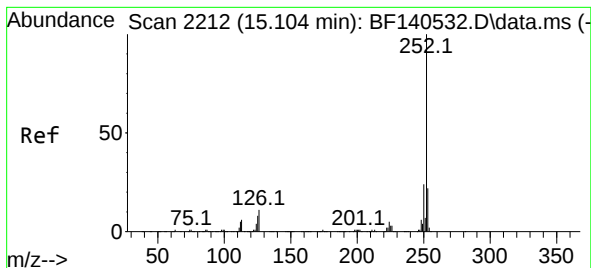
Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.6

265 22.0 16.6 25.0





#88

Benzo(b)fluoranthene

Concen: 3.367 ng

RT: 15.121 min Scan# 2215

Delta R.T. 0.018 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC

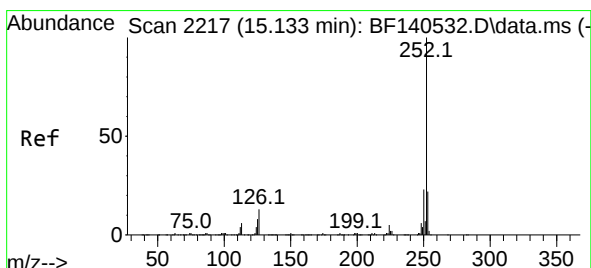
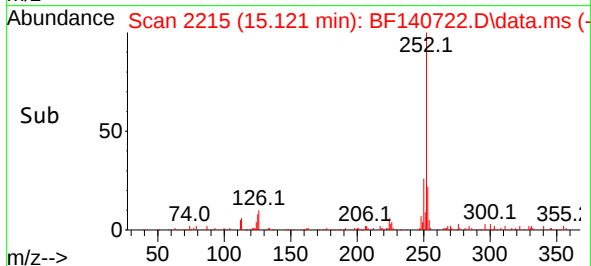
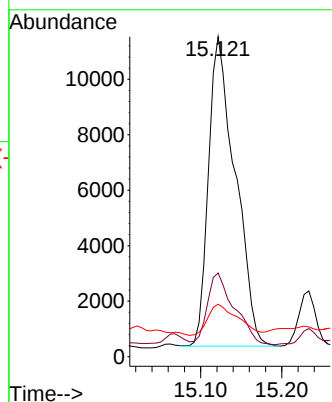
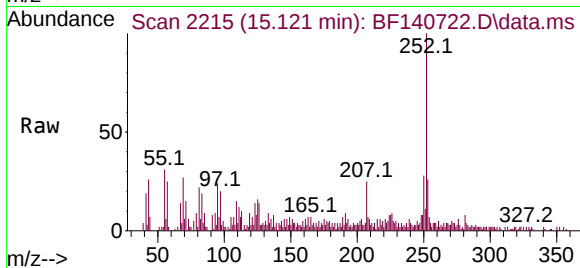
Tgt Ion:252 Resp: 25505

Ion Ratio Lower Upper

252 100

253 26.2 17.2 25.8#

125 16.4 6.7 10.1#



#89

Benzo(k)fluoranthene

Concen: 3.848 ng

RT: 15.121 min Scan# 2215

Delta R.T. -0.012 min

Lab File: BF140722.D

Acq: 03 Dec 2024 20:10

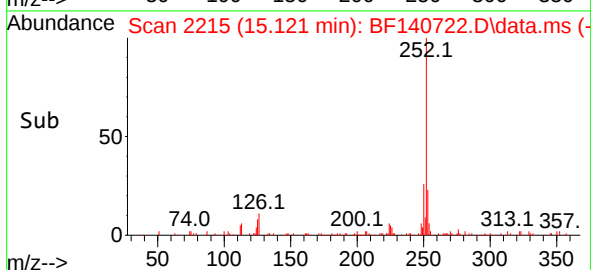
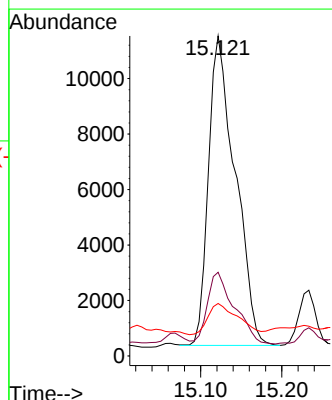
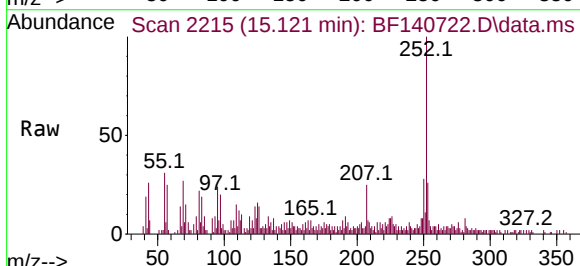
Tgt Ion:252 Resp: 25505

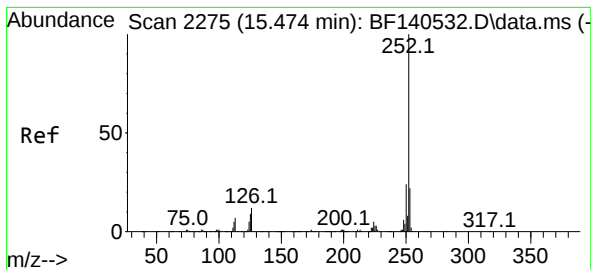
Ion Ratio Lower Upper

252 100

253 26.2 17.5 26.3

125 16.4 6.5 9.7#





#90

Benzo(a)pyrene

Concen: 2.571 ng

RT: 15.492 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF140722.D

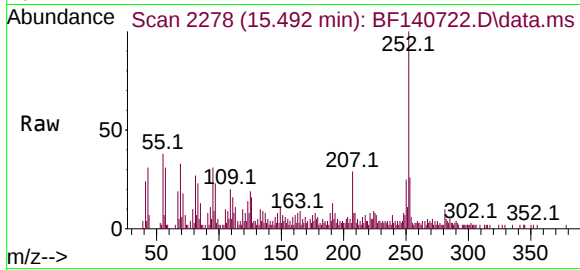
Acq: 03 Dec 2024 20:10

Instrument :

BNA\_F

ClientSampleId :

MH-746-WC



Tgt Ion:252 Resp: 15833

Ion Ratio Lower Upper

252 100

253 25.6 17.3 25.9

125 19.4 7.0 10.6#

