

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122021\  
 Data File : BF126287.D  
 Acq On : 20 Dec 2021 19:49  
 Operator : JU/CG  
 Sample : M5147-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 21 05:11:55 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 16 12:22:48 2021  
 Response via : Initial Calibration

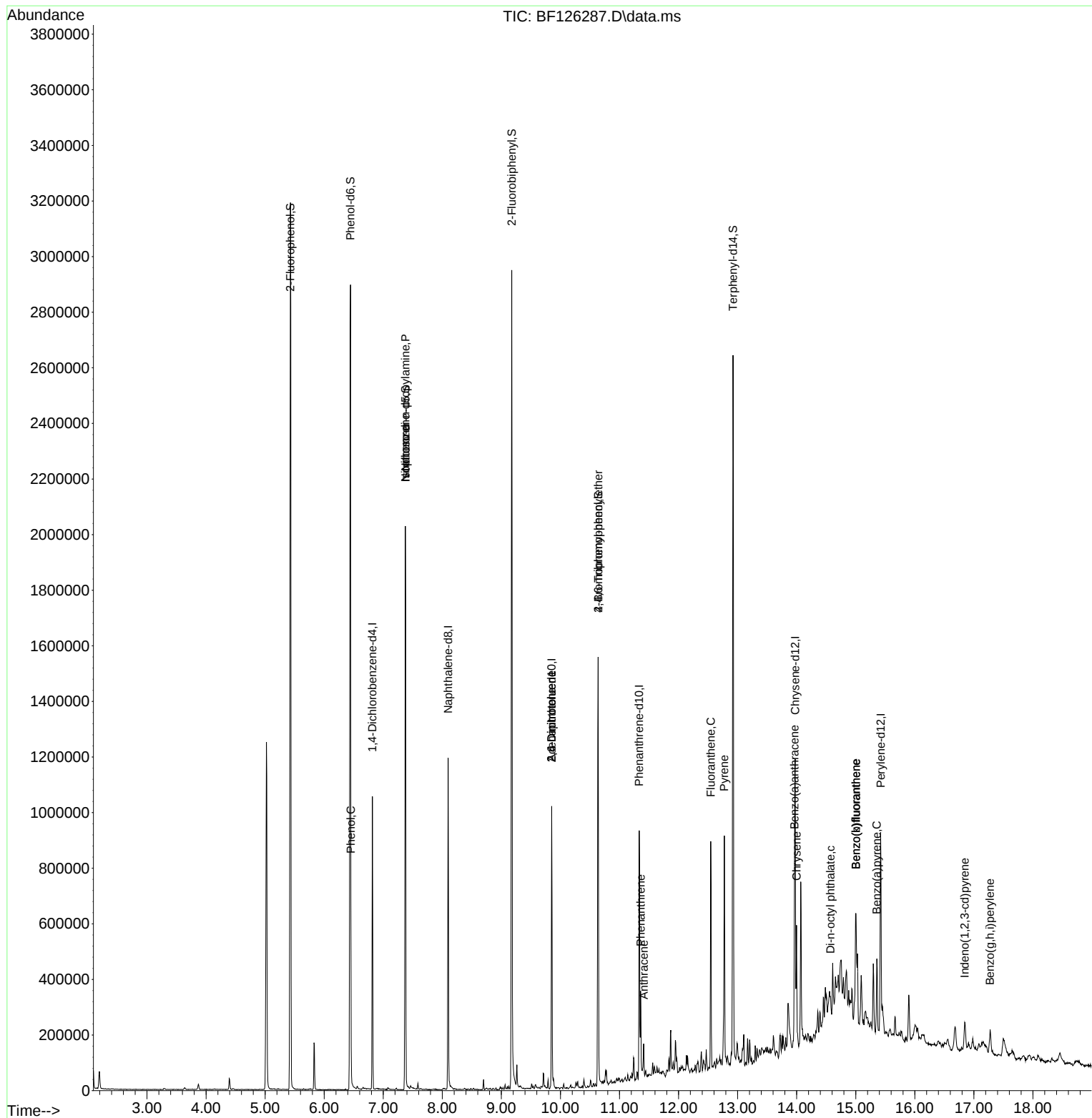
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.816  | 152  | 137123   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.098  | 136  | 485485   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.851  | 164  | 201740   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.333 | 188  | 308311   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 13.974 | 240  | 294894   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.421 | 264  | 291184   | 20.000  | ng    | 0.01     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.428  | 112  | 963497   | 103.476 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.445  | 99   | 1158752  | 98.008  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.375  | 82   | 703427   | 78.472  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.639 | 330  | 178129   | 109.870 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.175  | 172  | 935952   | 81.369  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.921 | 244  | 859717   | 50.672  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 10) Phenol                    | 6.451  | 94   | 33151    | 2.498   | ng    | 93       |
| 19) n-Nitroso-di-n-propyla... | 7.375  | 70   | 88814    | 12.237  | ng    | # 55     |
| 25) Isophorone                | 7.375  | 82   | 688290   | 40.661  | ng    | # 59     |
| 51) 2,6-Dinitrotoluene        | 9.851  | 165  | 25522    | 9.227   | ng    | # 28     |
| 57) 2,4-Dinitrotoluene        | 9.851  | 165  | 25522    | 7.233   | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether | 10.639 | 248  | 10117    | 3.496   | ng    | # 1      |
| 71) Phenanthrene              | 11.357 | 178  | 103918   | 6.530   | ng    | 97       |
| 72) Anthracene                | 11.410 | 178  | 39705    | 2.486   | ng    | 99       |
| 75) Fluoranthene              | 12.545 | 202  | 295194   | 20.589  | ng    | 89       |
| 78) Pyrene                    | 12.774 | 202  | 295715   | 10.915  | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.963 | 228  | 128720   | 7.369   | ng    | 94       |
| 83) Chrysene                  | 13.998 | 228  | 159411   | 8.783   | ng    | 97       |
| 85) Di-n-octyl phthalate      | 14.574 | 149  | 51675    | 2.035   | ng    | # 65     |
| 87) Indeno(1,2,3-cd)pyrene    | 16.845 | 276  | 65503    | 3.373   | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.004 | 252  | 285897   | 16.341  | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.004 | 252  | 285897   | 17.082  | ng    | # 95     |
| 90) Benzo(a)pyrene            | 15.357 | 252  | 117662   | 8.092   | ng    | # 93     |
| 92) Benzo(g,h,i)perylene      | 17.274 | 276  | 61461    | 3.762   | ng    | # 90     |
| -----                         |        |      |          |         |       |          |

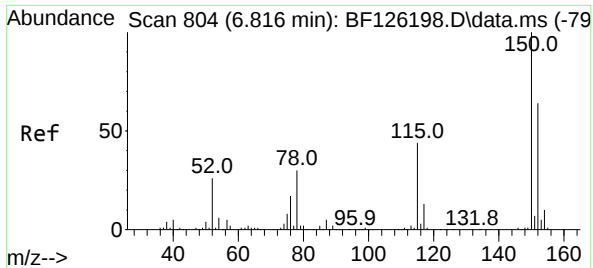
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122021\  
Data File : BF126287.D  
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Sample : M5147-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

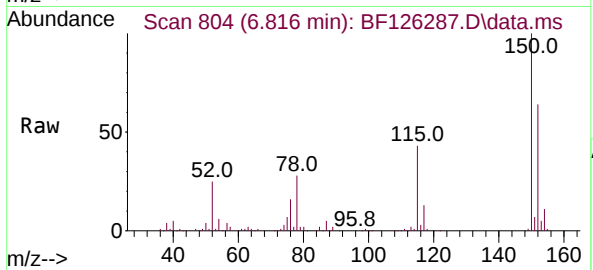
Quant Time: Dec 21 05:11:55 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 16 12:22:48 2021  
Response via : Initial Calibration



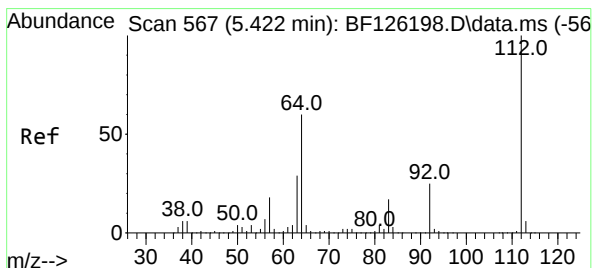
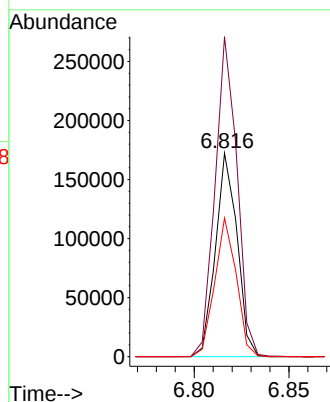
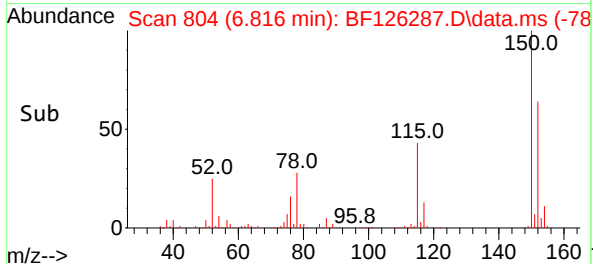


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.816 min Scan# 804  
 Delta R.T. -0.000 min  
 Lab File: BF126287.D  
 Acq: 20 Dec 2021 19:49

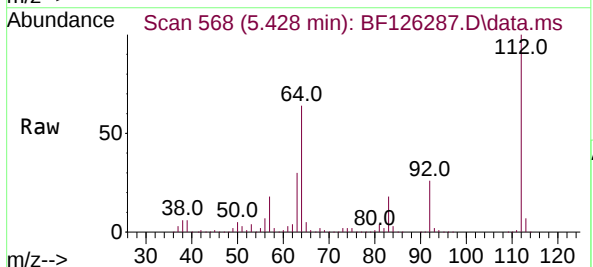
Instrument :  
 BNA\_F  
 ClientSampleId :



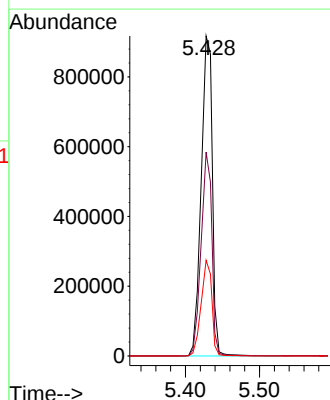
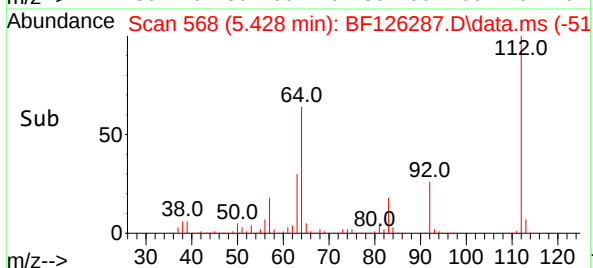
Tgt Ion:152 Resp: 137123  
 Ion Ratio Lower Upper  
 152 100  
 150 157.2 117.6 176.4  
 115 68.2 47.1 70.7

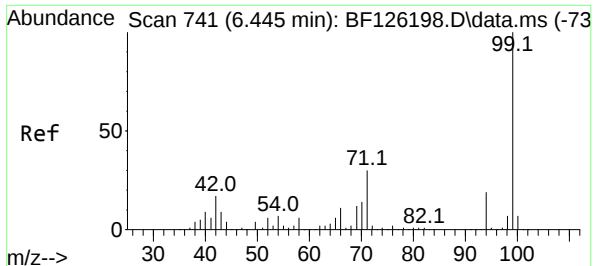


#5  
 2-Fluorophenol  
 Concen: 103.476 ng  
 RT: 5.428 min Scan# 568  
 Delta R.T. 0.006 min  
 Lab File: BF126287.D  
 Acq: 20 Dec 2021 19:49



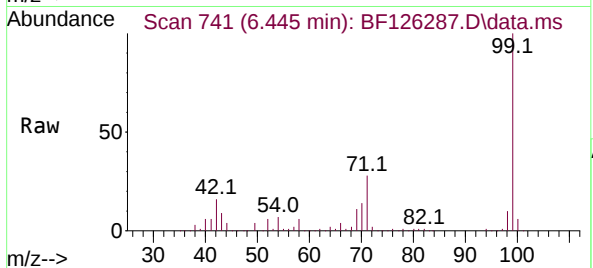
Tgt Ion:112 Resp: 963497  
 Ion Ratio Lower Upper  
 112 100  
 64 63.7 44.2 66.2  
 63 29.9 26.2 39.2



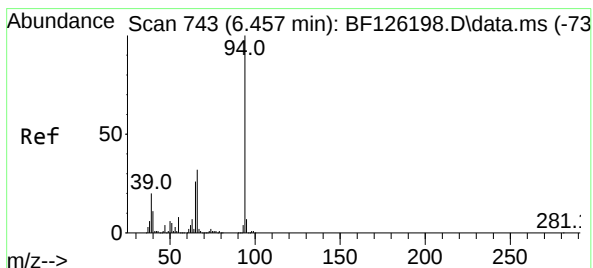
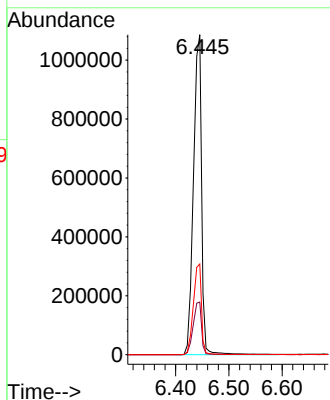
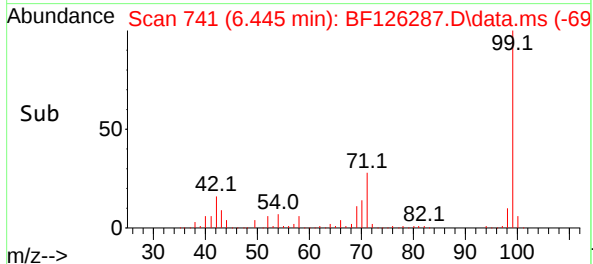


#7  
Phenol-d6  
Concen: 98.008 ng  
RT: 6.445 min Scan# 741  
Delta R.T. 0.000 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

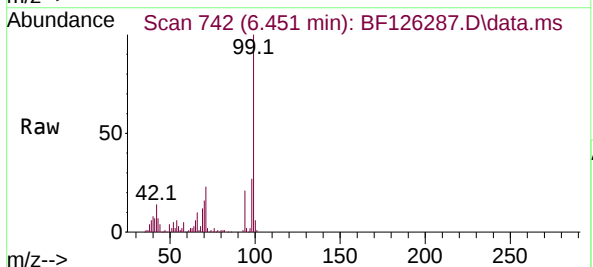
Instrument :  
BNA\_F  
ClientSampleId :



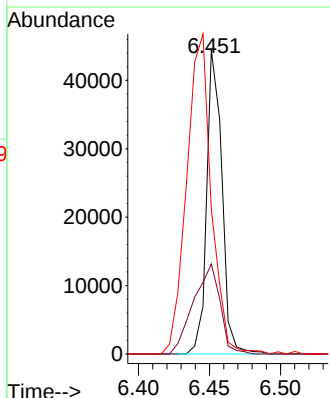
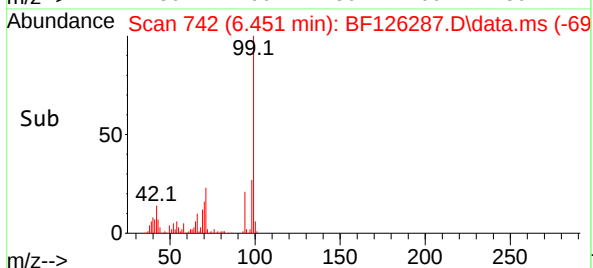
Tgt Ion: 99 Resp: 1158752  
Ion Ratio Lower Upper  
99 100  
42 16.5 23.5 35.3#  
71 28.4 25.6 38.4

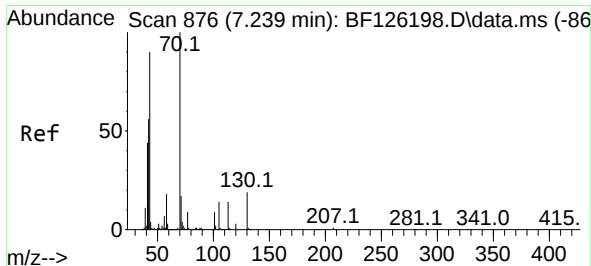


#10  
Phenol  
Concen: 2.498 ng  
RT: 6.451 min Scan# 742  
Delta R.T. -0.006 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49



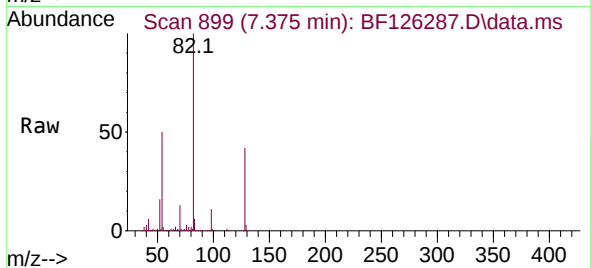
Tgt Ion: 94 Resp: 33151  
Ion Ratio Lower Upper  
94 100  
65 29.7 9.3 49.3  
66 47.6 20.3 60.3



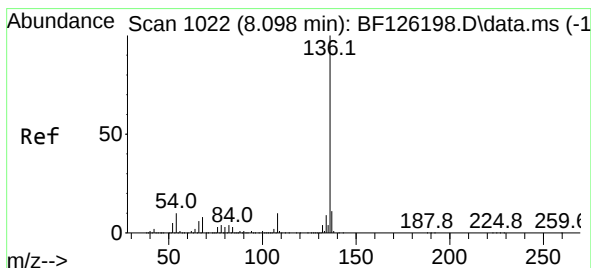
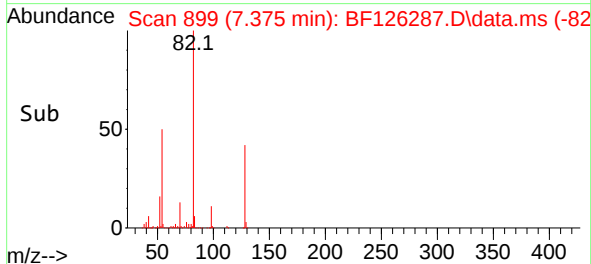
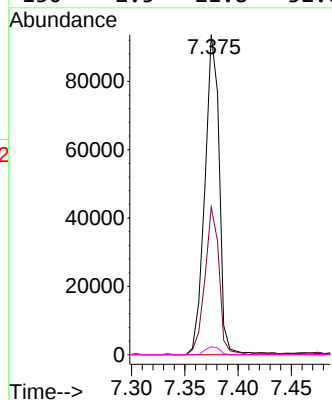


#19  
n-Nitroso-di-n-propylamine  
Concen: 12.237 ng  
RT: 7.375 min Scan# 899  
Delta R.T. 0.135 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

Instrument :  
BNA\_F  
ClientSampleId :

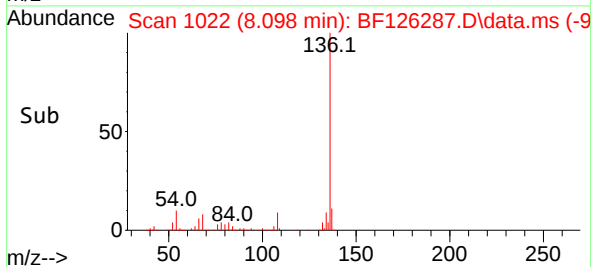
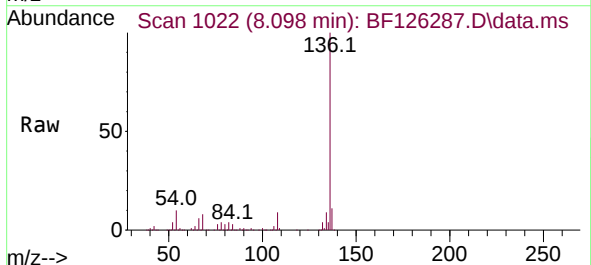
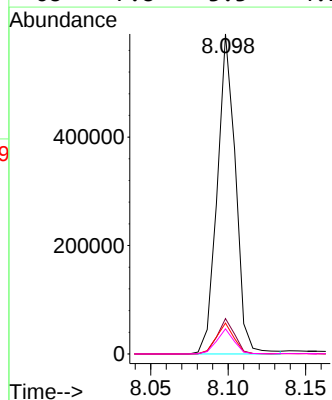


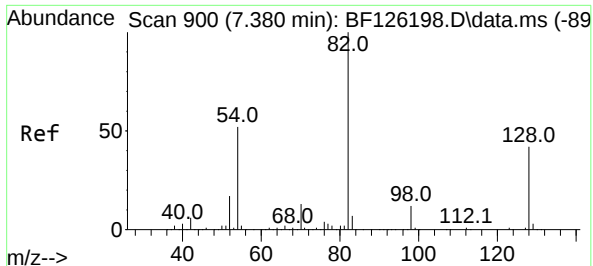
|             |                  |
|-------------|------------------|
| Tgt Ion: 70 | Resp: 88814      |
| Ion Ratio   | Lower Upper      |
| 70          | 100              |
| 42          | 46.2 72.2 108.2# |
| 101         | 0.0 7.8 11.8#    |
| 130         | 2.5 21.8 32.6#   |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.098 min Scan# 1022  
Delta R.T. 0.000 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

|              |               |
|--------------|---------------|
| Tgt Ion: 136 | Resp: 485485  |
| Ion Ratio    | Lower Upper   |
| 136          | 100           |
| 137          | 11.1 9.8 14.6 |
| 54           | 9.7 6.4 9.6#  |
| 68           | 7.8 3.3 4.9#  |





#23

Nitrobenzene-d5

Concen: 78.472 ng

RT: 7.375 min Scan# 899

Delta R.T. -0.006 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

Instrument :

BNA\_F

ClientSampleId :

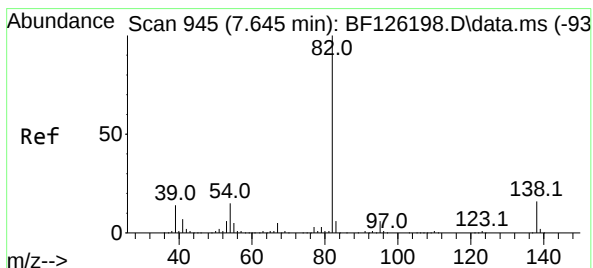
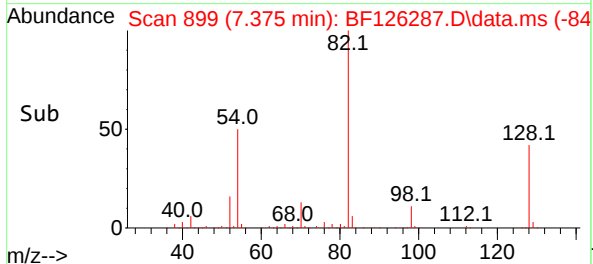
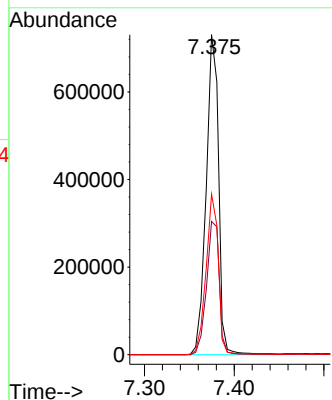
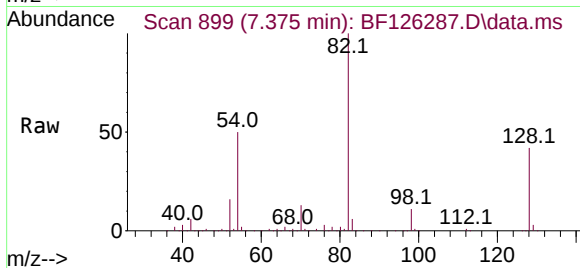
Tgt Ion: 82 Resp: 703427

Ion Ratio Lower Upper

82 100

128 41.6 40.6 60.8

54 50.2 49.6 74.4



#25

Isophorone

Concen: 40.661 ng

RT: 7.375 min Scan# 899

Delta R.T. -0.270 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

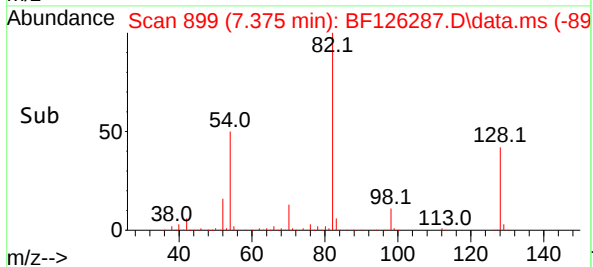
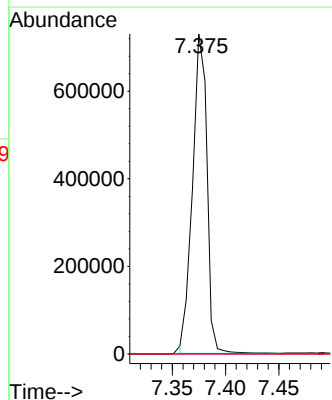
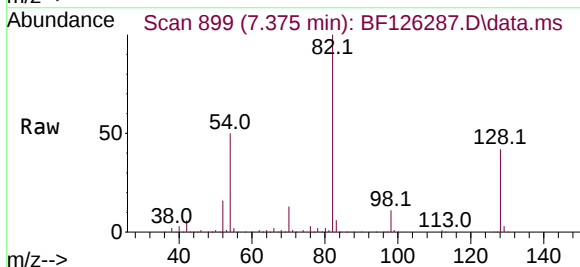
Tgt Ion: 82 Resp: 688290

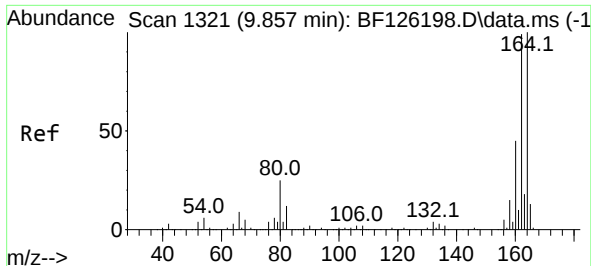
Ion Ratio Lower Upper

82 100

95 0.0 6.5 9.7#

138 0.0 18.4 27.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.851 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

Instrument :

BNA\_F

ClientSampleId :

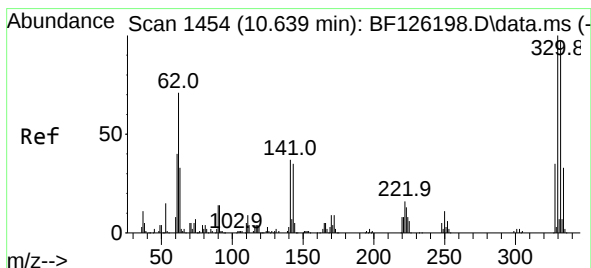
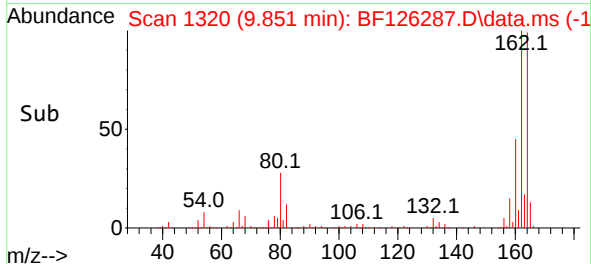
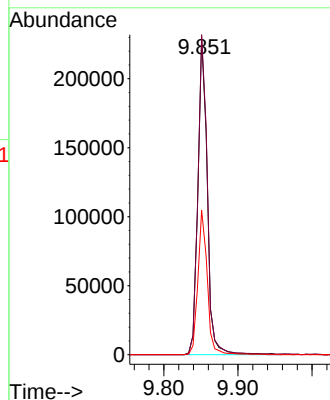
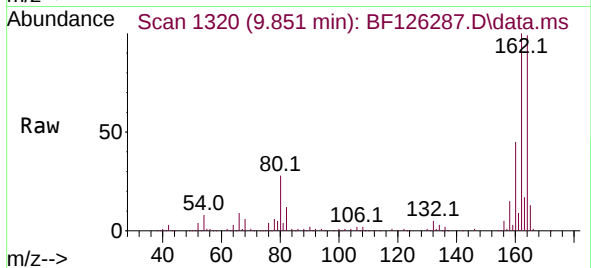
Tgt Ion:164 Resp: 201740

Ion Ratio Lower Upper

164 100

162 101.2 81.3 121.9

160 45.7 38.0 57.0



#42

2,4,6-Tribromophenol

Concen: 109.870 ng

RT: 10.639 min Scan# 1454

Delta R.T. 0.000 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

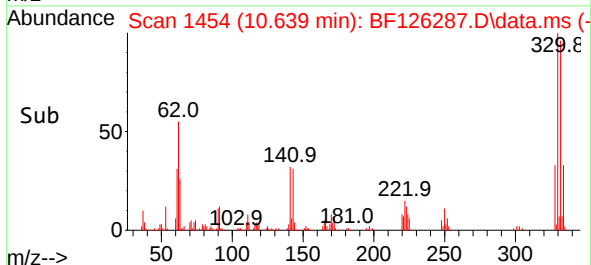
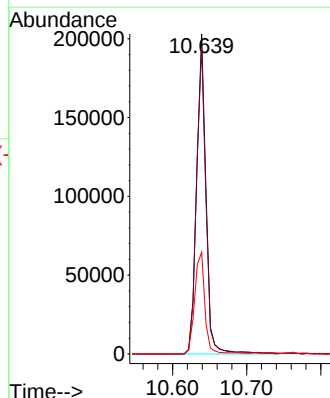
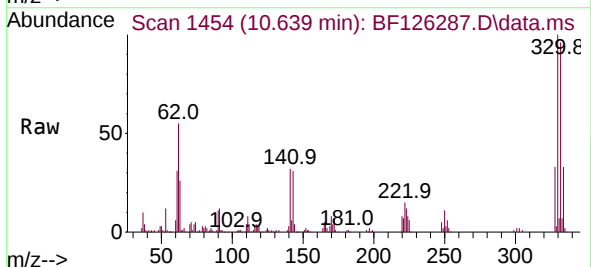
Tgt Ion:330 Resp: 178129

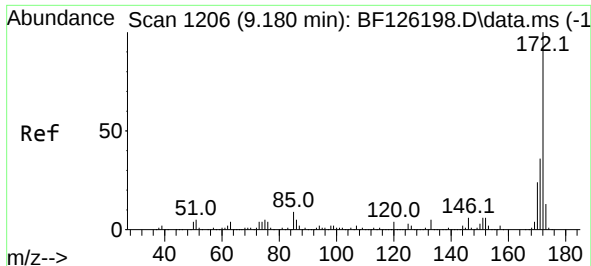
Ion Ratio Lower Upper

330 100

332 97.3 76.2 114.4

141 35.1 44.6 66.8#

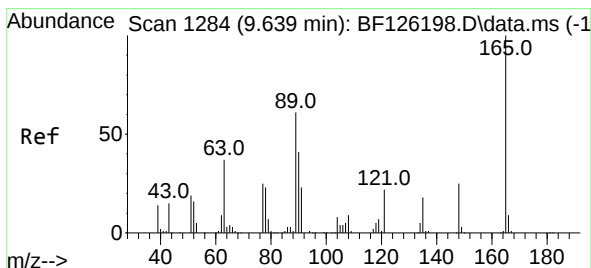
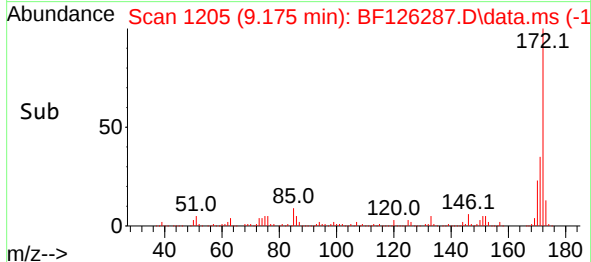
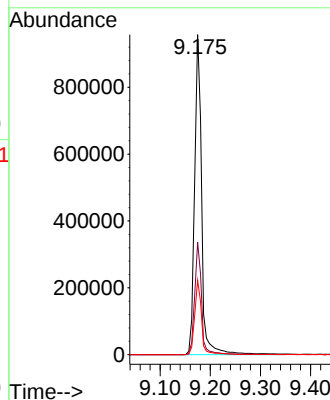
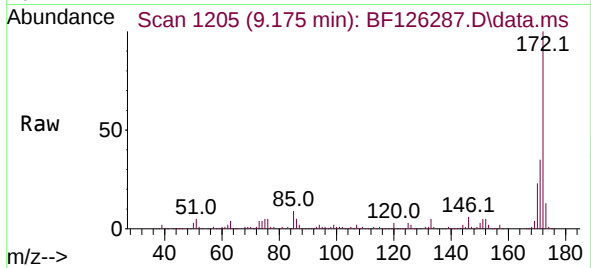




#45  
2-Fluorobiphenyl  
Concen: 81.369 ng  
RT: 9.175 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

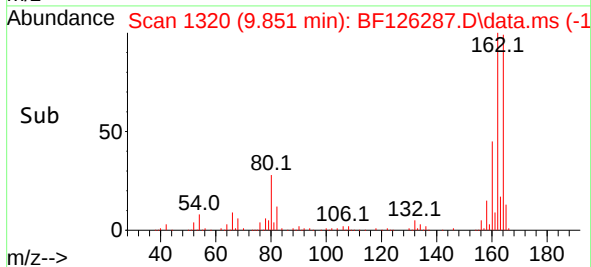
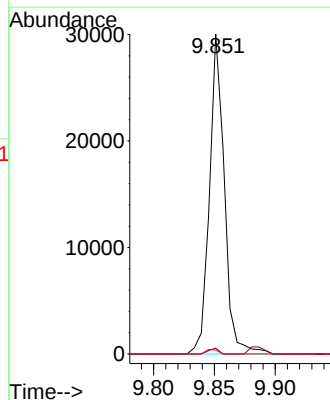
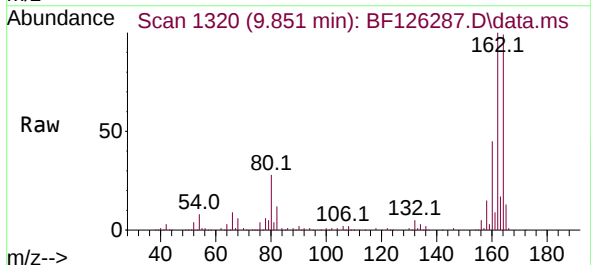
Instrument :  
BNA\_F  
ClientSampleId :

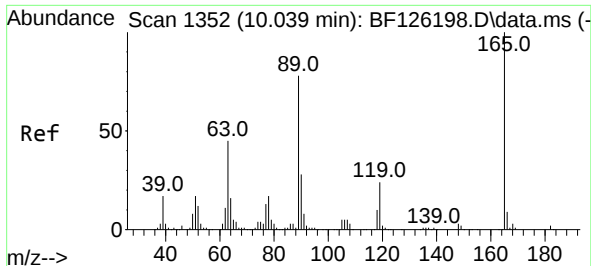
Tgt Ion:172 Resp: 935952  
Ion Ratio Lower Upper  
172 100  
171 35.2 26.5 39.7  
170 23.3 18.8 28.2



#51  
2,6-Dinitrotoluene  
Concen: 9.227 ng  
RT: 9.851 min Scan# 1320  
Delta R.T. 0.212 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

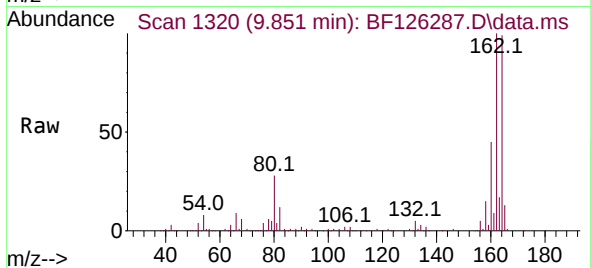
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Ion Ratio Lower Upper  
165 100  
63 1.8 42.6 63.8#  
89 1.2 40.6 60.8#



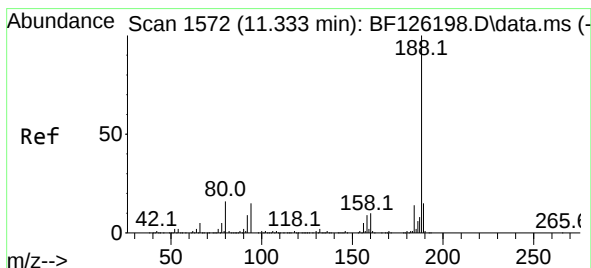
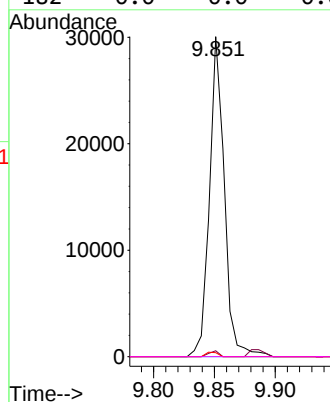


#57  
2,4-Dinitrotoluene  
Concen: 7.233 ng  
RT: 9.851 min Scan# 11  
Delta R.T. -0.188 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

Instrument :  
BNA\_F  
ClientSampleId :

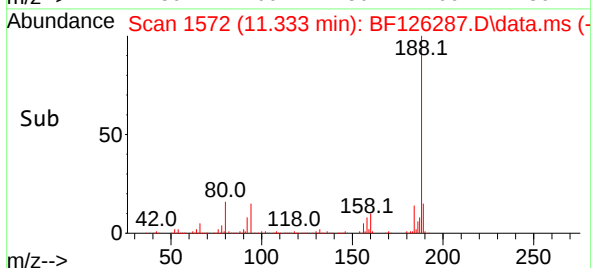
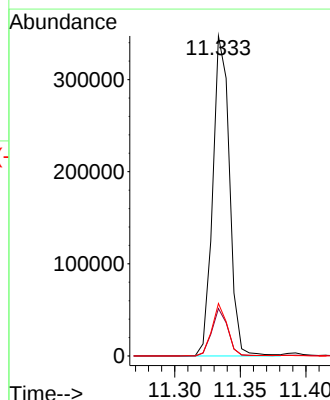
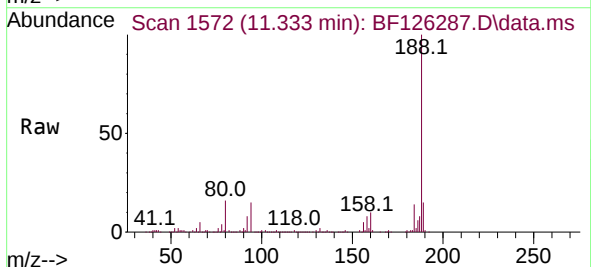


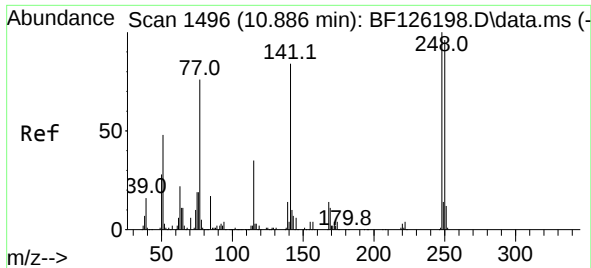
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 25522      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.8   | 40.9 61.3# |
| 89          | 1.2   | 59.7 89.5# |
| 182         | 0.0   | 0.0 0.0    |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

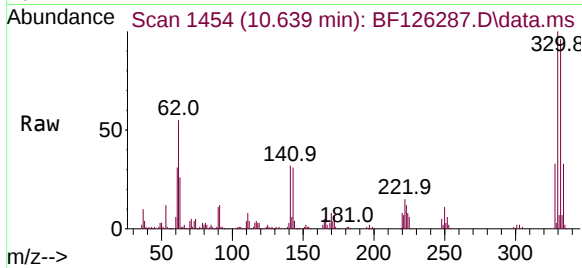
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:188 | Resp: | 308311    |
| Ion Ratio   | Lower | Upper     |
| 188         | 100   |           |
| 94          | 14.8  | 6.7 10.1# |
| 80          | 16.4  | 7.5 11.3# |



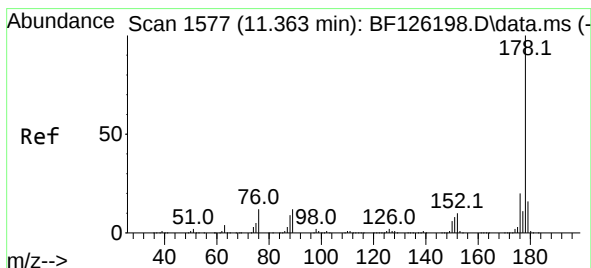
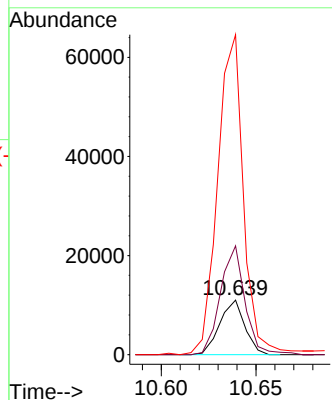
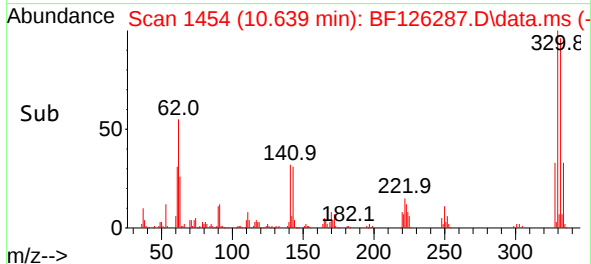


#67  
4-Bromophenyl-phenylether  
Concen: 3.496 ng  
RT: 10.639 min Scan# 1496  
Delta R.T. -0.247 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

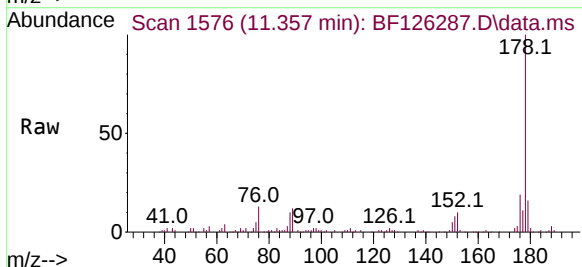
Instrument :  
BNA\_F  
ClientSampleId :



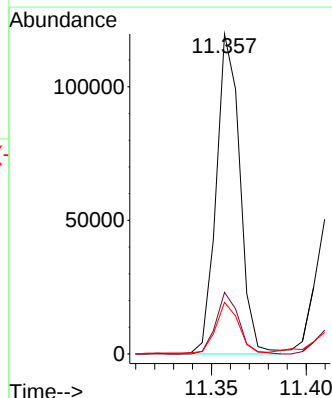
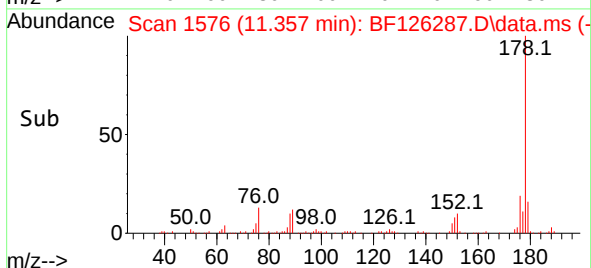
Tgt Ion:248 Resp: 10117  
Ion Ratio Lower Upper  
248 100  
250 199.5 74.2 111.4#  
141 587.0 60.4 90.6#

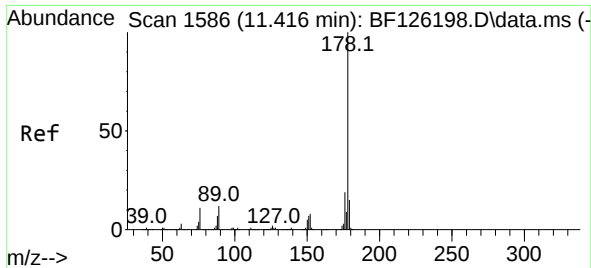


#71  
Phenanthrene  
Concen: 6.530 ng  
RT: 11.357 min Scan# 1576  
Delta R.T. -0.006 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49



Tgt Ion:178 Resp: 103918  
Ion Ratio Lower Upper  
178 100  
176 19.3 14.7 22.1  
179 16.2 11.5 17.3

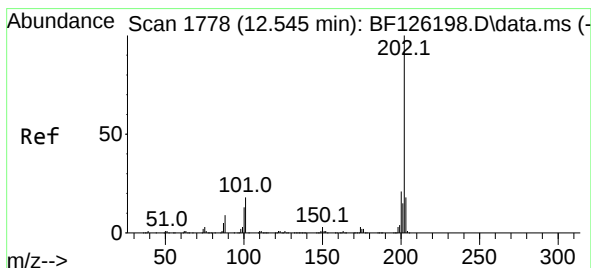
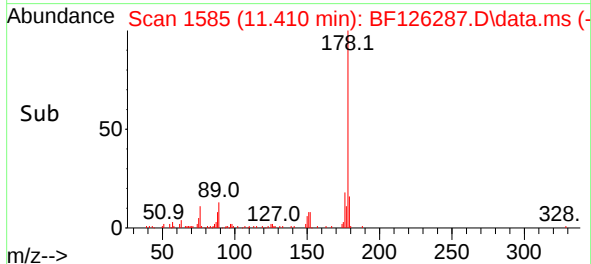
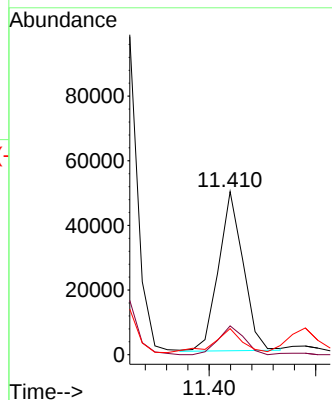
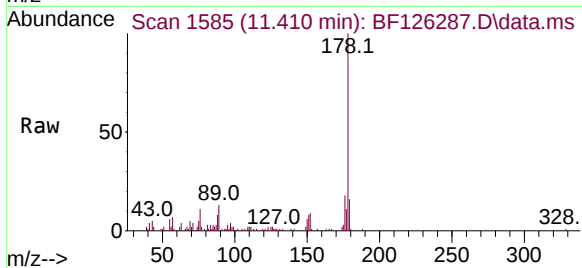




#72  
 Anthracene  
 Concen: 2.486 ng  
 RT: 11.410 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF126287.D  
 Acq: 20 Dec 2021 19:49

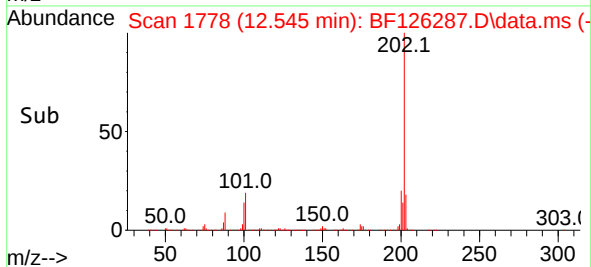
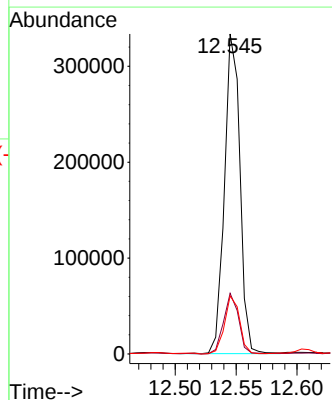
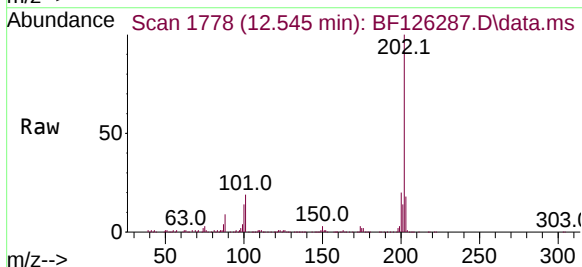
Instrument :  
 BNA\_F  
 ClientSampleId :

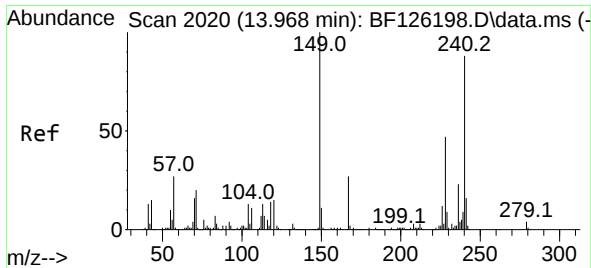
Tgt Ion:178 Resp: 39705  
 Ion Ratio Lower Upper  
 178 100  
 176 17.7 14.3 21.5  
 179 16.0 12.2 18.4



#75  
 Fluoranthene  
 Concen: 20.589 ng  
 RT: 12.545 min Scan# 1778  
 Delta R.T. 0.000 min  
 Lab File: BF126287.D  
 Acq: 20 Dec 2021 19:49

Tgt Ion:202 Resp: 295194  
 Ion Ratio Lower Upper  
 202 100  
 101 18.9 0.0 30.7  
 203 18.1 0.0 36.3

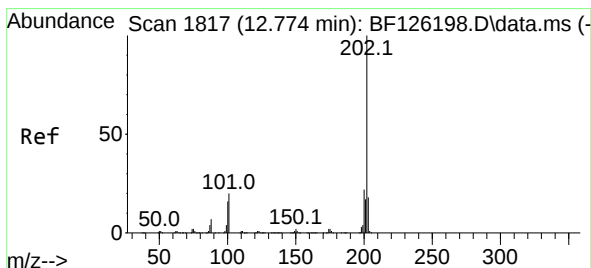
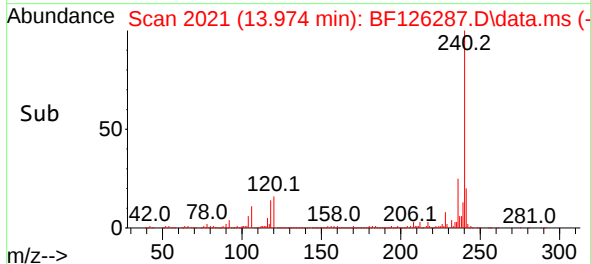
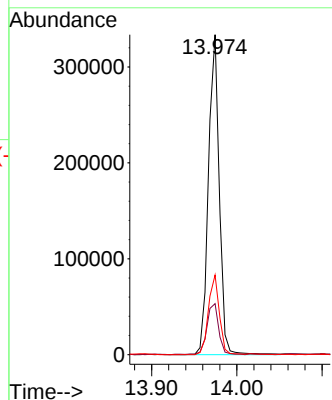
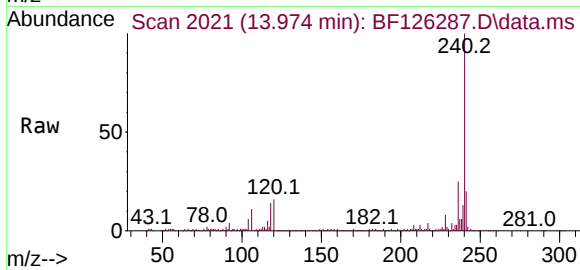




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.974 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

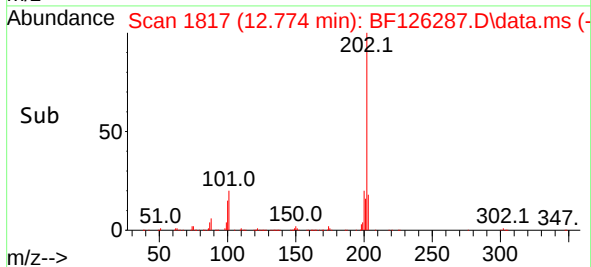
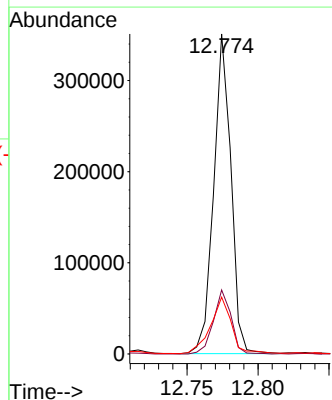
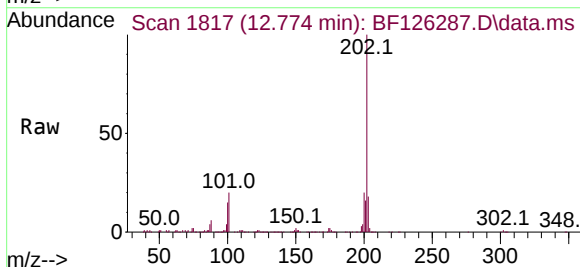
Instrument :  
BNA\_F  
ClientSampleId :

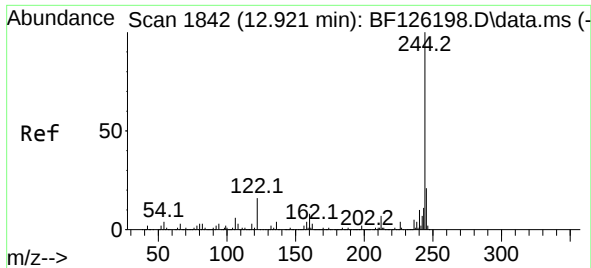
Tgt Ion:240 Resp: 294894  
Ion Ratio Lower Upper  
240 100  
120 15.9 10.8 16.2  
236 24.9 21.6 32.4



#78  
Pyrene  
Concen: 10.915 ng  
RT: 12.774 min Scan# 1817  
Delta R.T. 0.000 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

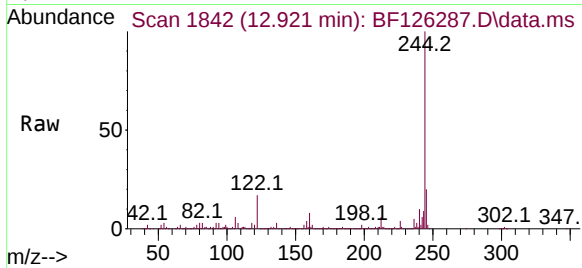
Tgt Ion:202 Resp: 295715  
Ion Ratio Lower Upper  
202 100  
200 20.0 15.3 22.9  
203 17.7 13.4 20.0



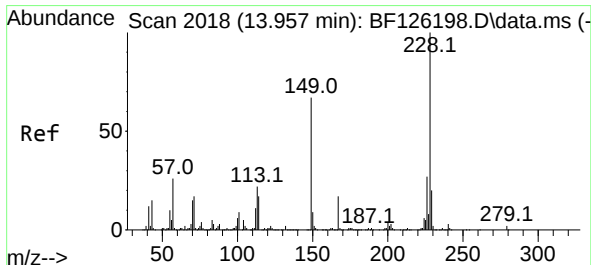
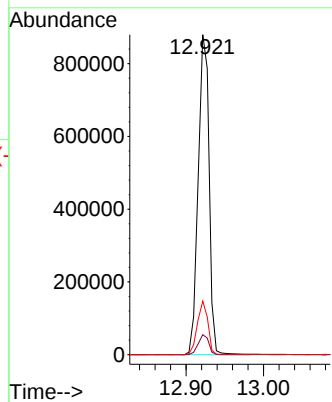
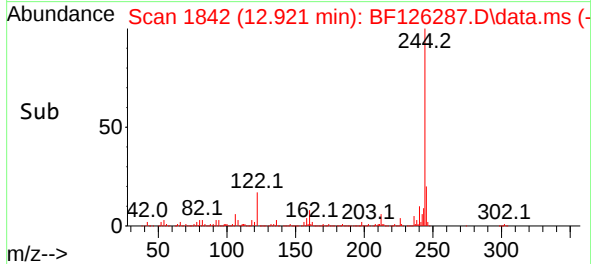


#79  
 Terphenyl-d14  
 Concen: 50.672 ng  
 RT: 12.921 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: BF126287.D  
 Acq: 20 Dec 2021 19:49

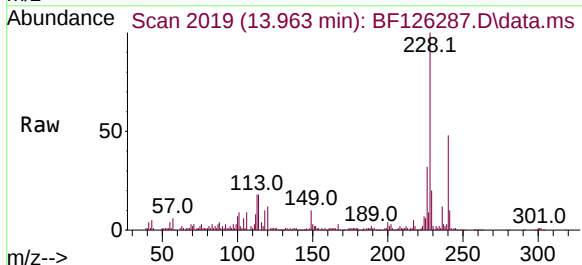
Instrument :  
 BNA\_F  
 ClientSampleId :



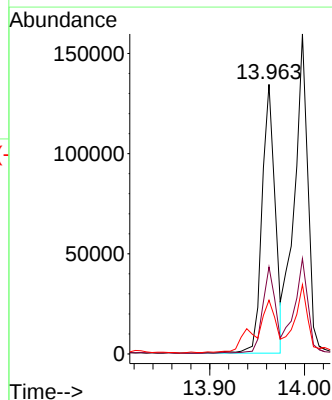
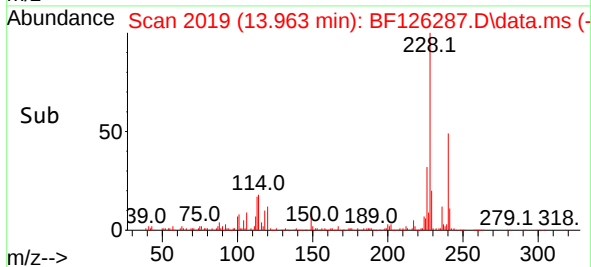
Tgt Ion:244 Resp: 859717  
 Ion Ratio Lower Upper  
 244 100  
 212 6.2 5.9 8.9  
 122 16.7 9.0 13.4#

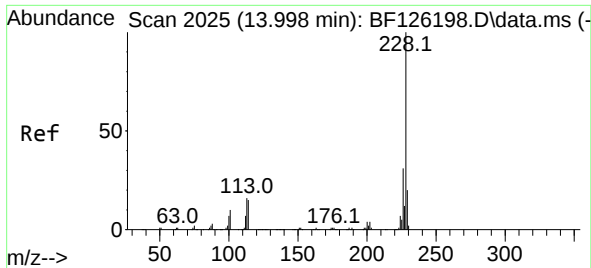


#81  
 Benzo(a)anthracene  
 Concen: 7.369 ng  
 RT: 13.963 min Scan# 2019  
 Delta R.T. 0.006 min  
 Lab File: BF126287.D  
 Acq: 20 Dec 2021 19:49



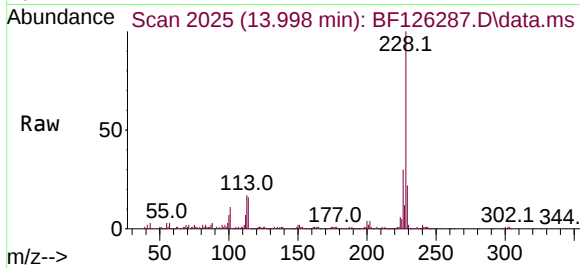
Tgt Ion:228 Resp: 128720  
 Ion Ratio Lower Upper  
 228 100  
 226 32.3 21.6 32.4  
 229 20.0 15.6 23.4



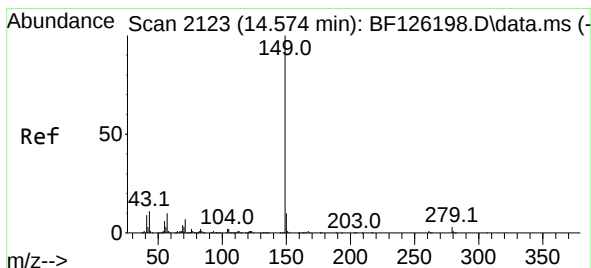
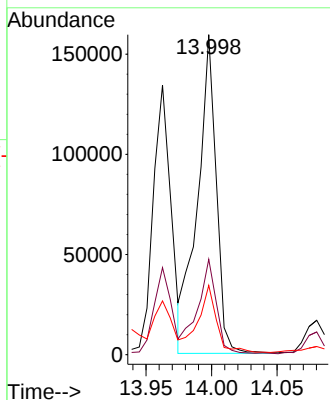
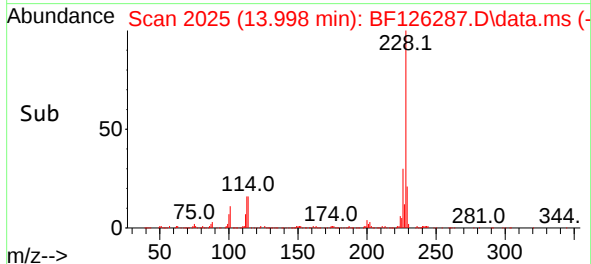


#83  
Chrysene  
Concen: 8.783 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.000 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

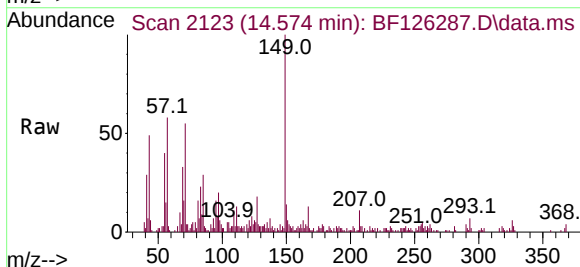
Instrument :  
BNA\_F  
ClientSampleId :



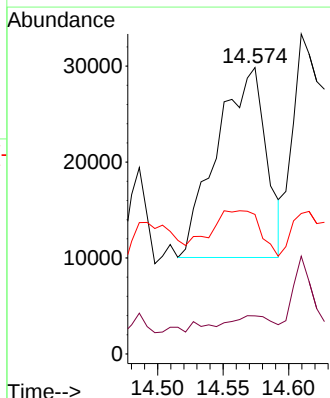
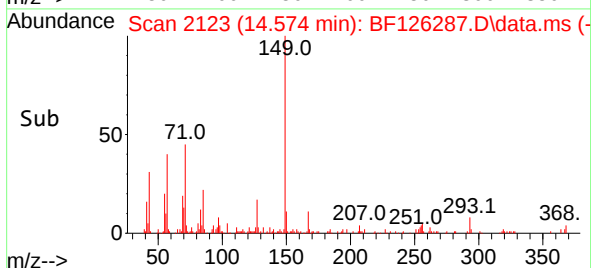
Tgt Ion:228 Resp: 159411  
Ion Ratio Lower Upper  
228 100  
226 29.8 22.6 34.0  
229 21.7 15.9 23.9

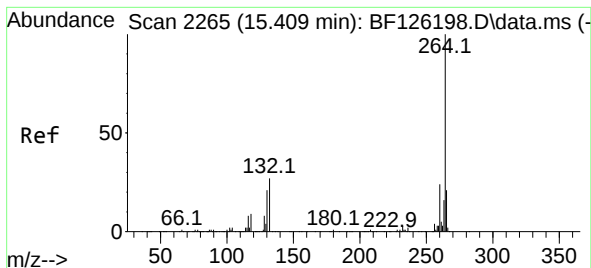


#85  
Di-n-octyl phthalate  
Concen: 2.035 ng  
RT: 14.574 min Scan# 2123  
Delta R.T. 0.000 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49



Tgt Ion:149 Resp: 51675  
Ion Ratio Lower Upper  
149 100  
167 5.4 1.0 1.6#  
43 27.1 9.9 14.9#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

Instrument :

BNA\_F

ClientSampleId :

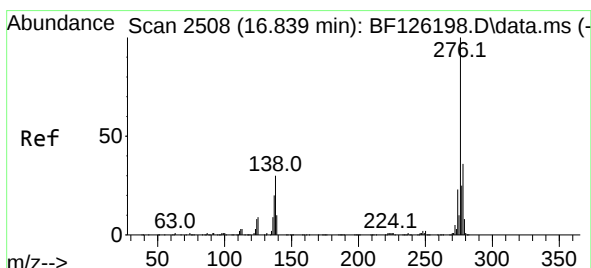
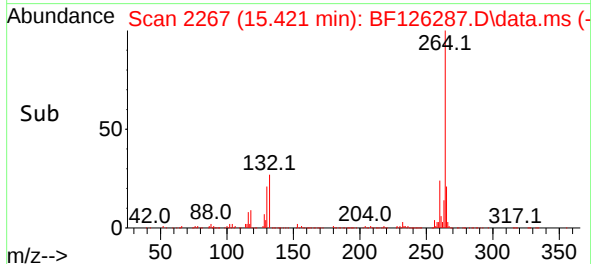
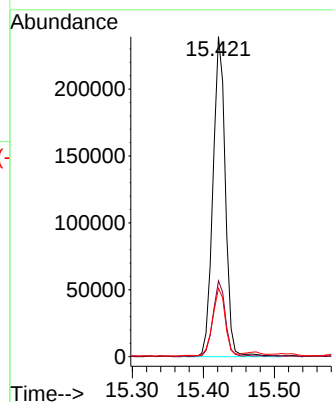
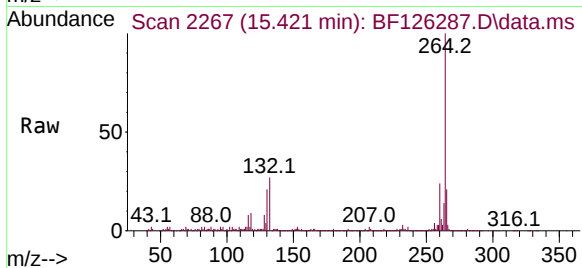
Tgt Ion:264 Resp: 291184

Ion Ratio Lower Upper

264 100

260 23.7 19.6 29.4

265 21.4 17.2 25.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.373 ng

RT: 16.845 min Scan# 2509

Delta R.T. 0.006 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

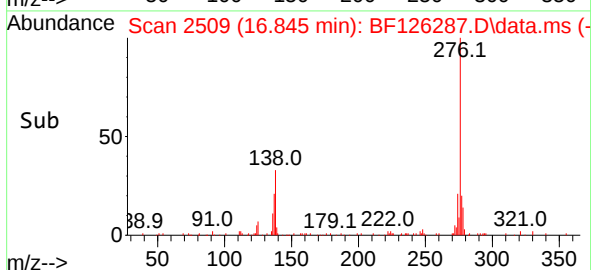
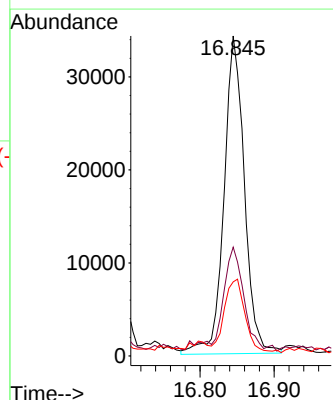
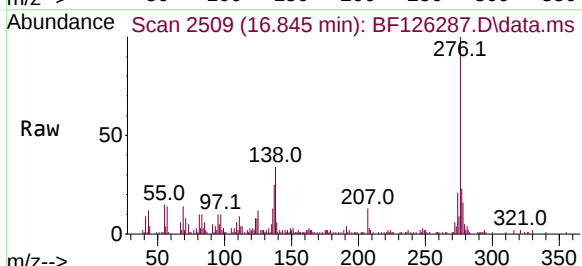
Tgt Ion:276 Resp: 65503

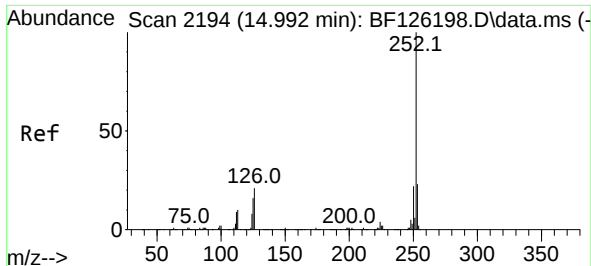
Ion Ratio Lower Upper

276 100

138 34.8 24.1 36.1

277 24.0 18.8 28.2

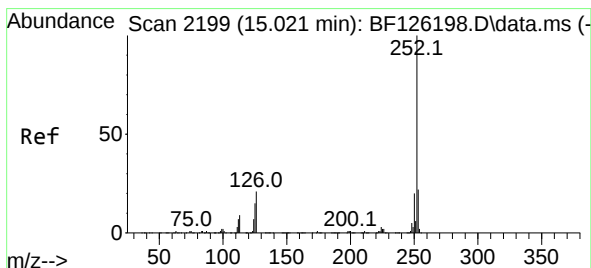
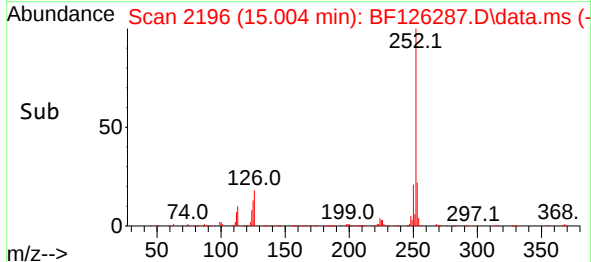
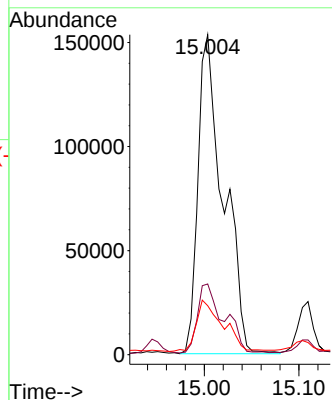
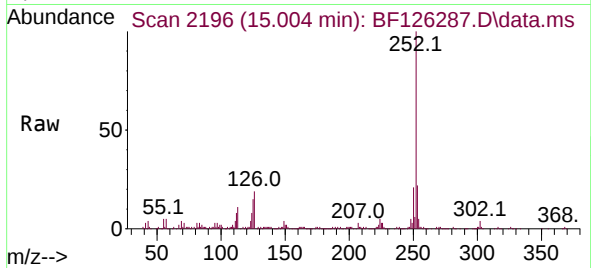




#88  
Benzo(b)fluoranthene  
Concen: 16.341 ng  
RT: 15.004 min Scan# 2196  
Delta R.T. 0.012 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

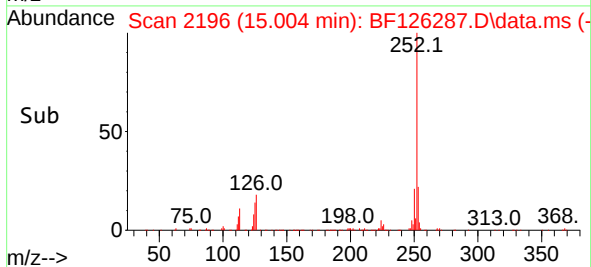
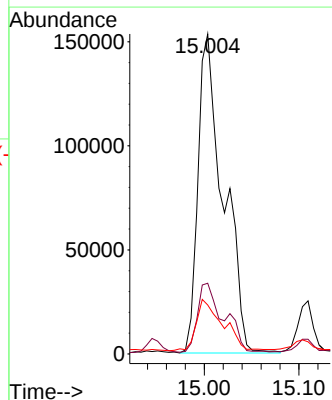
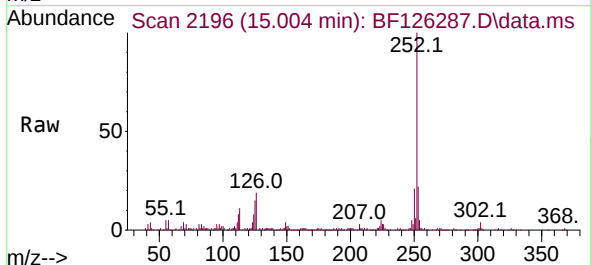
Instrument :  
BNA\_F  
ClientSampleId :

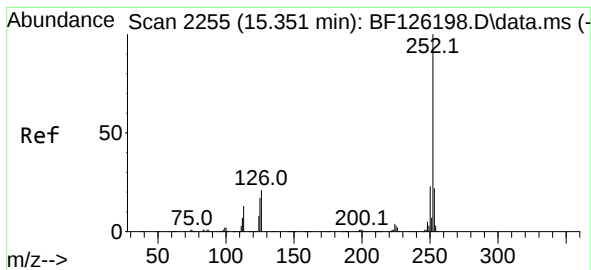
Tgt Ion:252 Resp: 285897  
Ion Ratio Lower Upper  
252 100  
253 22.1 16.8 25.2  
125 15.3 9.8 14.8#



#89  
Benzo(k)fluoranthene  
Concen: 17.082 ng  
RT: 15.004 min Scan# 2196  
Delta R.T. -0.017 min  
Lab File: BF126287.D  
Acq: 20 Dec 2021 19:49

Tgt Ion:252 Resp: 285897  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.8 26.8  
125 15.3 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 8.092 ng

RT: 15.357 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

Instrument :

BNA\_F

ClientSampleId :

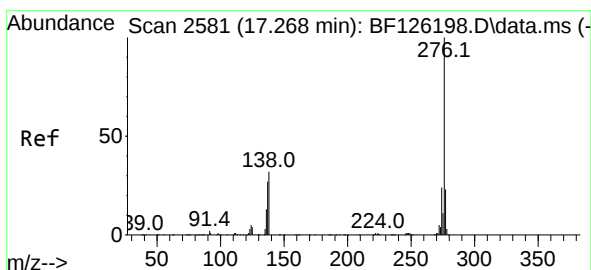
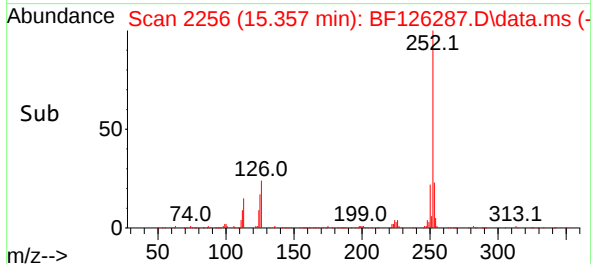
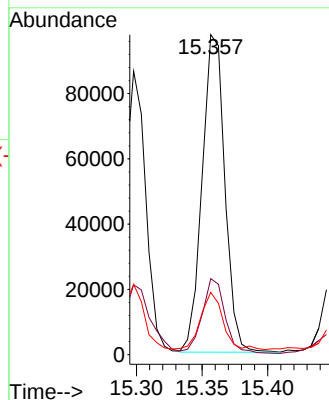
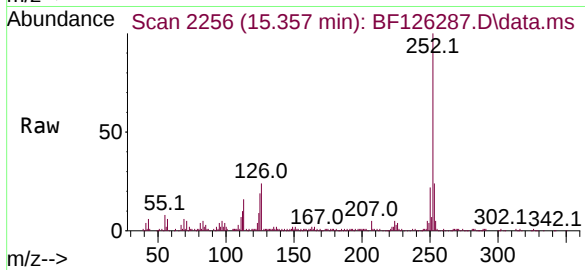
Tgt Ion:252 Resp: 117662

Ion Ratio Lower Upper

252 100

253 23.8 18.4 27.6

125 19.5 9.9 14.9#



#92

Benzo(g,h,i)perylene

Concen: 3.762 ng

RT: 17.274 min Scan# 2582

Delta R.T. 0.006 min

Lab File: BF126287.D

Acq: 20 Dec 2021 19:49

Tgt Ion:276 Resp: 61461

Ion Ratio Lower Upper

276 100

277 21.3 22.0 33.0#

138 31.9 22.2 33.4

