

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072822\  
 Data File : BF129404.D  
 Acq On : 28 Jul 2022 12:31  
 Operator : CG\JU  
 Sample : N3893-08  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RVE-8

Quant Time: Jul 29 02:07:13 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 25 17:24:17 2022  
 Response via : Initial Calibration

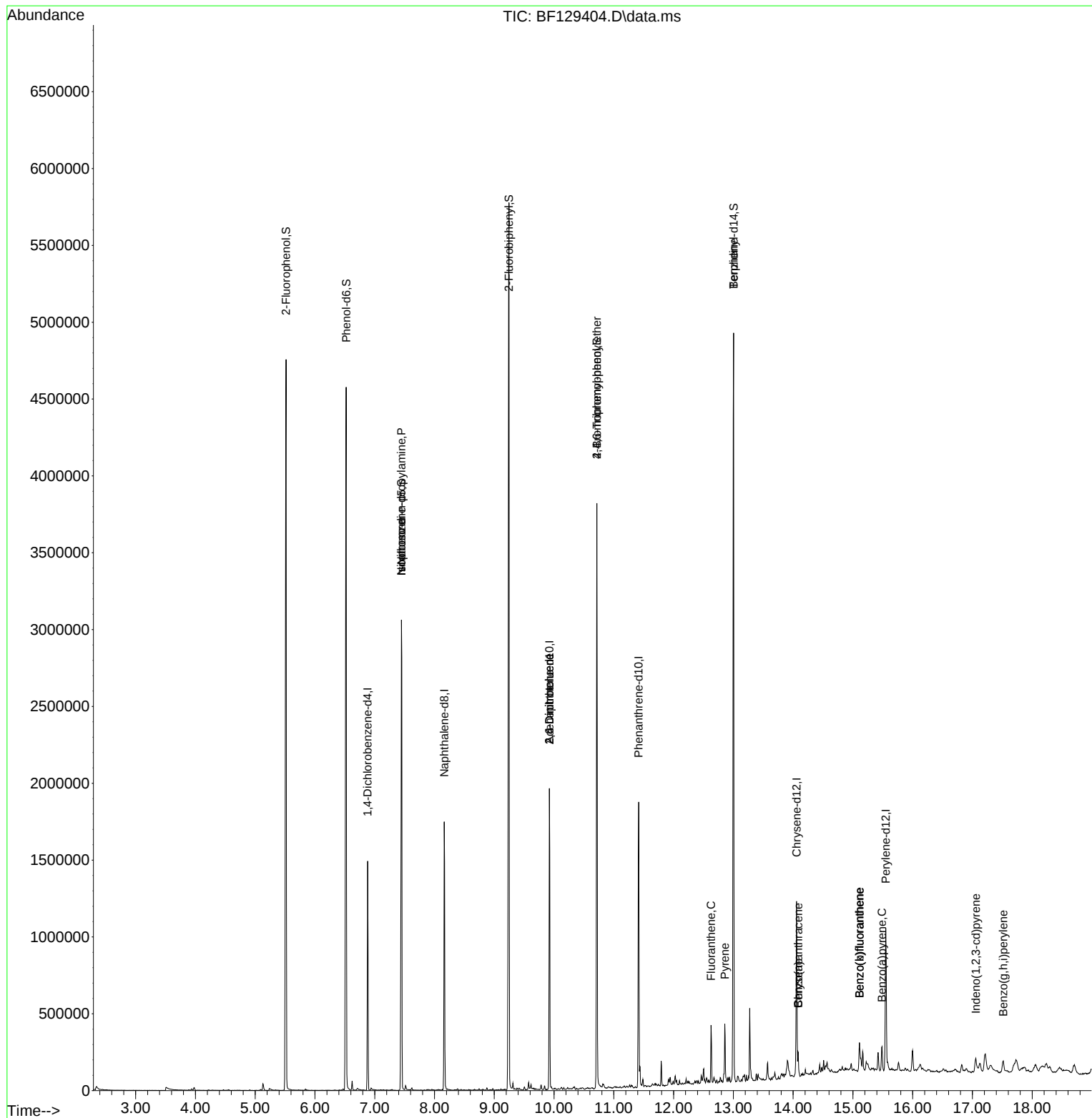
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 193811   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.163  | 136  | 760217   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 401465   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 632987   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 350710   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 15.551 | 264  | 385648   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 1347796  | 113.283 | ng    | 0.02     |
| 7) Phenol-d6                  | 6.522  | 99   | 1712253  | 114.497 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 1068099  | 76.697  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 432719   | 112.110 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1900565  | 73.234  | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.004 | 244  | 1632005  | 87.791  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.445  | 70   | 143688   | 15.871  | ng    | # 74     |
| 25) Isophorone                | 7.445  | 82   | 1068086  | 42.787  | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 9.922  | 165  | 52627    | 8.484   | ng    | # 26     |
| 57) 2,4-Dinitrotoluene        | 9.922  | 165  | 52627    | 6.494   | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether | 10.716 | 248  | 26763    | 3.861   | ng    | # 1      |
| 75) Fluoranthene              | 12.627 | 202  | 129958   | 3.712   | ng    | 99       |
| 77) Benzidine                 | 13.004 | 184  | 24936    | 2.013   | ng    | # 93     |
| 78) Pyrene                    | 12.857 | 202  | 139183   | 4.746   | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.086 | 228  | 66715    | 2.785   | ng    | 96       |
| 83) Chrysene                  | 14.086 | 228  | 66715    | 2.955   | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.057 | 276  | 56020    | 2.157   | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.110 | 252  | 127550   | 4.986   | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.110 | 252  | 127550   | 5.088   | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.486 | 252  | 74634    | 3.594   | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.515 | 276  | 60751    | 2.813   | ng    | 99       |
| -----                         |        |      |          |         |       |          |

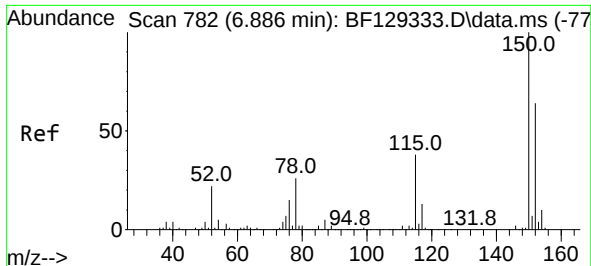
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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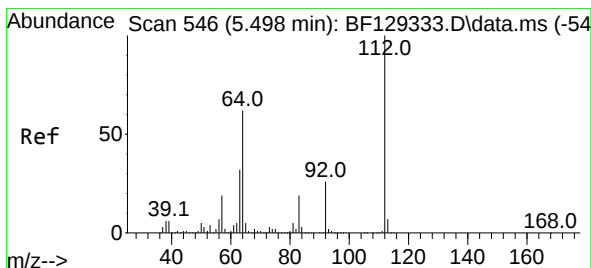
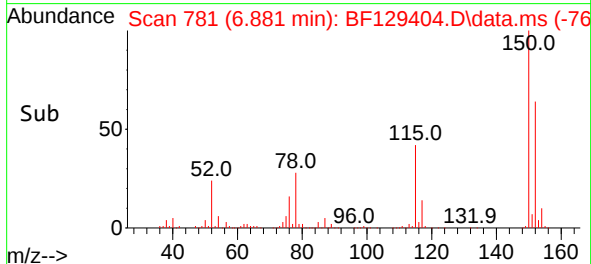
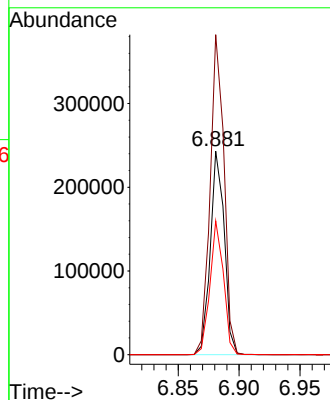
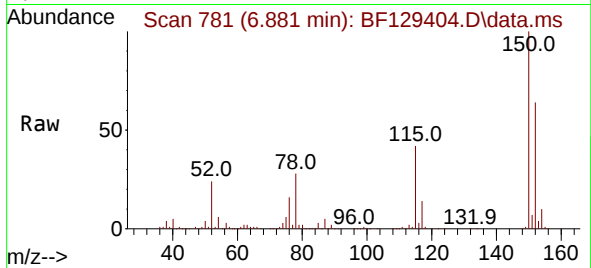




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 71  
Delta R.T. -0.005 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

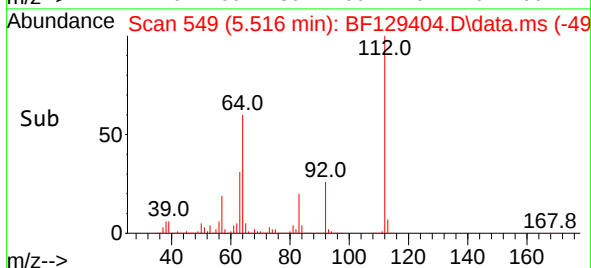
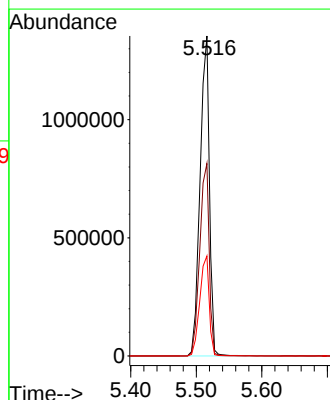
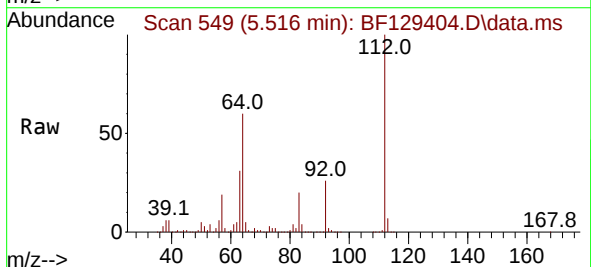
Instrument :  
BNA\_F  
ClientSampleId :  
RVE-8

Tgt Ion:152 Resp: 193811  
Ion Ratio Lower Upper  
152 100  
150 157.2 123.7 185.5  
115 65.8 49.9 74.9



#5  
2-Fluorophenol  
Concen: 113.283 ng  
RT: 5.516 min Scan# 549  
Delta R.T. 0.018 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion:112 Resp: 1347796  
Ion Ratio Lower Upper  
112 100  
64 60.1 53.3 79.9  
63 31.3 28.0 42.0

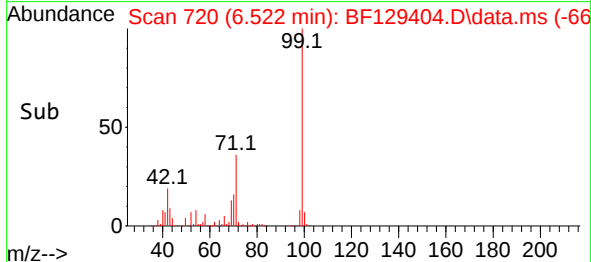
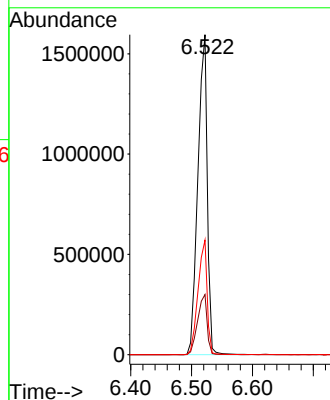
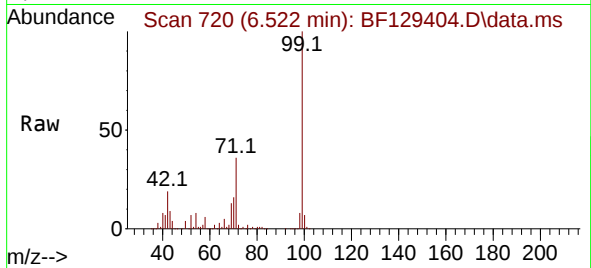




#7  
Phenol-d6  
Concen: 114.497 ng  
RT: 6.522 min Scan# 719  
Delta R.T. 0.006 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

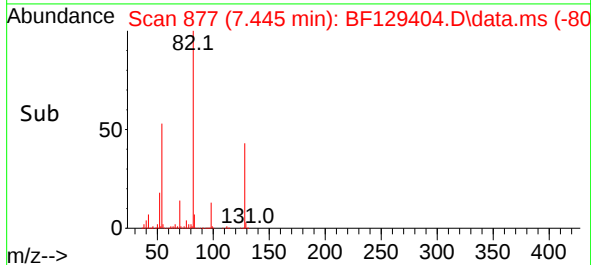
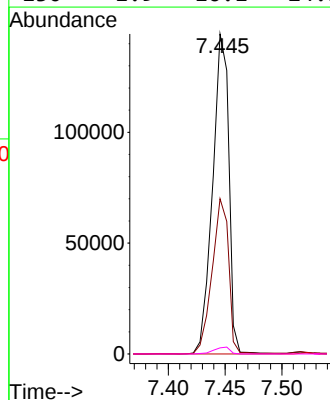
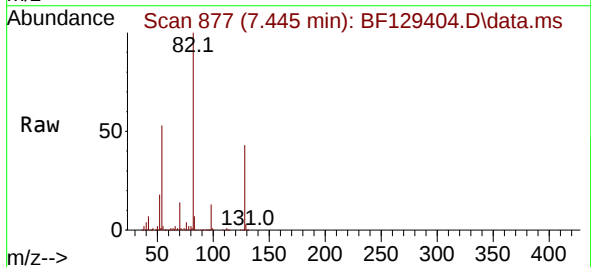
Instrument :  
BNA\_F  
ClientSampleId :  
RVE-8

Tgt Ion: 99 Resp: 1712253  
Ion Ratio Lower Upper  
99 100  
42 18.8 17.3 25.9  
71 35.8 28.9 43.3



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.871 ng  
RT: 7.445 min Scan# 877  
Delta R.T. 0.147 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion: 70 Resp: 143688  
Ion Ratio Lower Upper  
70 100  
42 48.5 52.3 78.5#  
101 0.0 7.5 11.3#  
130 1.9 16.1 24.1#



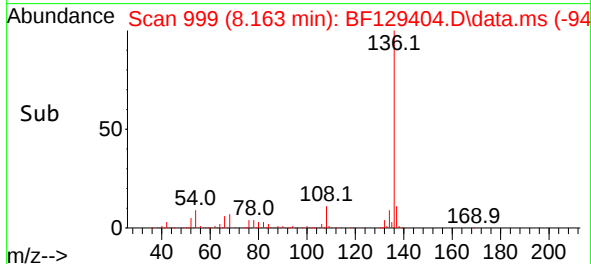
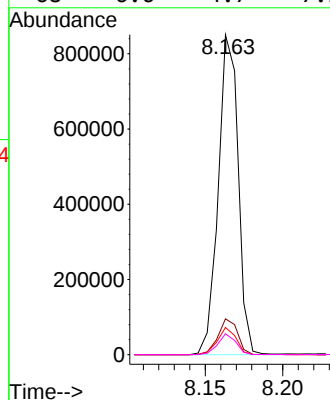
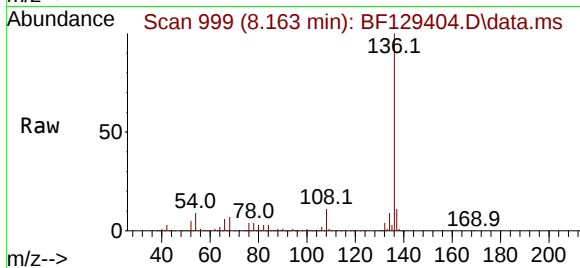


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Instrument :  
BNA\_F  
ClientSampleId :  
RVE-8

Tgt Ion:136 Resp: 760217

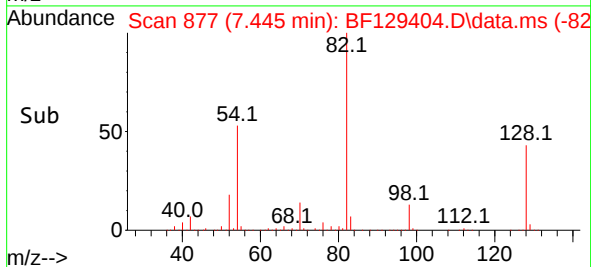
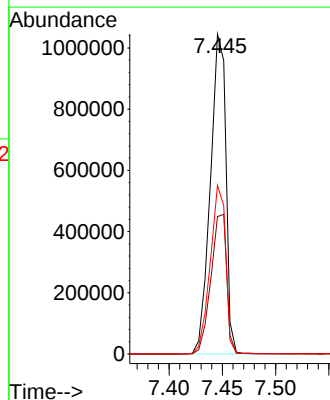
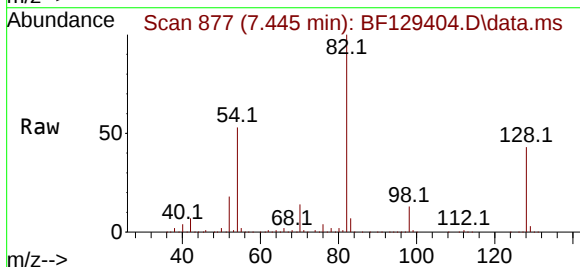
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.2  | 8.8   | 13.2  |
| 54  | 8.5   | 7.5   | 11.3  |
| 68  | 6.6   | 4.7   | 7.1   |



#23  
Nitrobenzene-d5  
Concen: 76.697 ng  
RT: 7.445 min Scan# 877  
Delta R.T. -0.006 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion: 82 Resp: 1068099

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 42.9  | 34.0  | 51.0  |
| 54  | 52.7  | 46.9  | 70.3  |

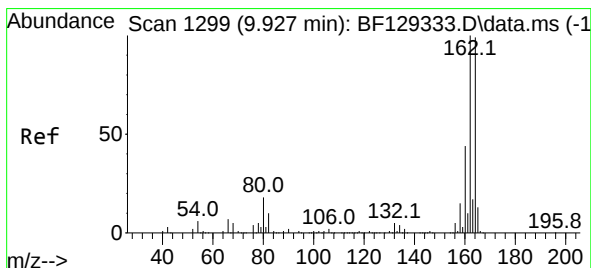
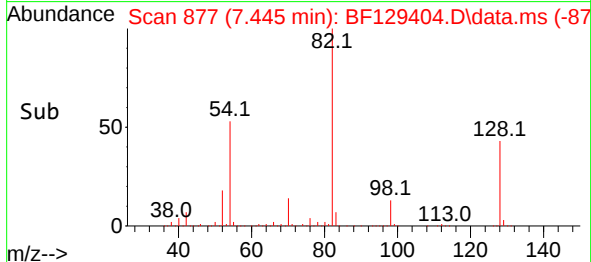
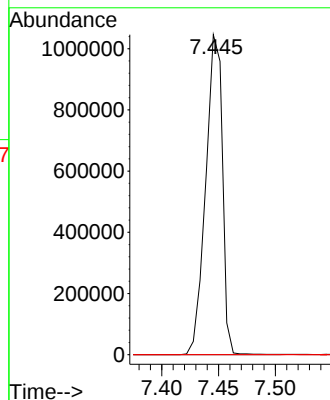
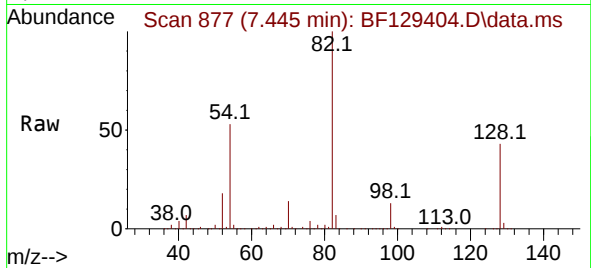




#25  
Isophorone  
Concen: 42.787 ng  
RT: 7.445 min Scan# 81  
Delta R.T. -0.265 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

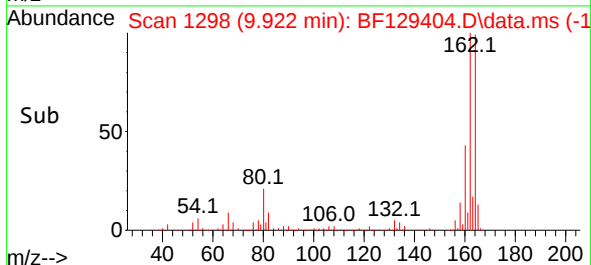
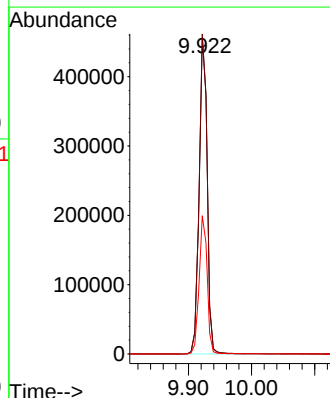
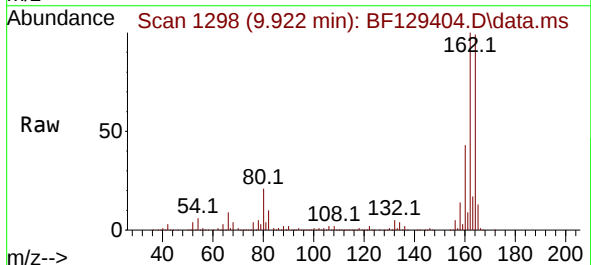
Instrument :  
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ClientSampleId :  
RVE-8

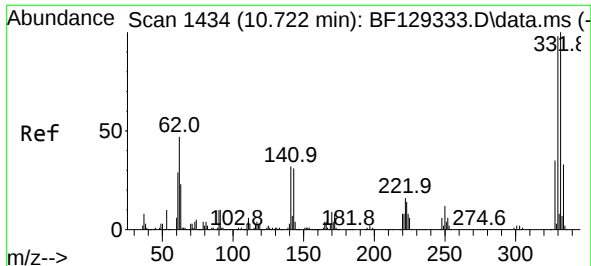
Tgt Ion: 82 Resp: 1068086  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 14.2 21.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1298  
Delta R.T. -0.006 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion:164 Resp: 401465  
Ion Ratio Lower Upper  
164 100  
162 101.1 79.5 119.3  
160 43.7 34.2 51.4





#42

2,4,6-Tribromophenol

Concen: 112.110 ng

RT: 10.716 min Scan# 1434

Delta R.T. -0.006 min

Lab File: BF129404.D

Acq: 28 Jul 2022 12:31

Instrument :

BNA\_F

ClientSampleId :

RVE-8

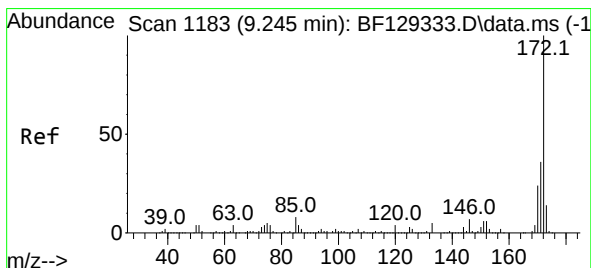
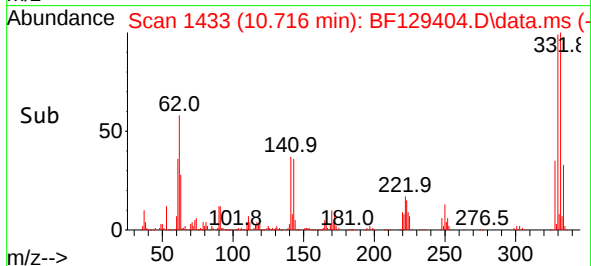
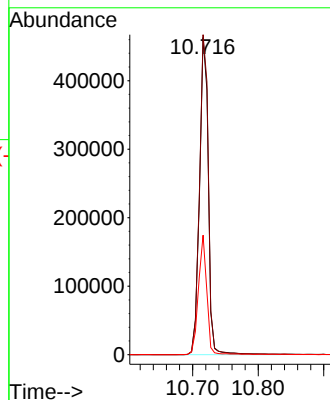
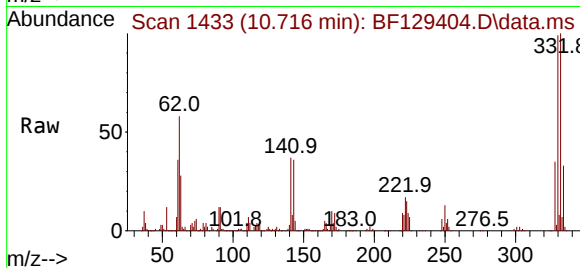
Tgt Ion:330 Resp: 432719

Ion Ratio Lower Upper

330 100

332 102.0 76.8 115.2

141 35.9 28.0 42.0



#45

2-Fluorobiphenyl

Concen: 73.234 ng

RT: 9.245 min Scan# 1183

Delta R.T. 0.000 min

Lab File: BF129404.D

Acq: 28 Jul 2022 12:31

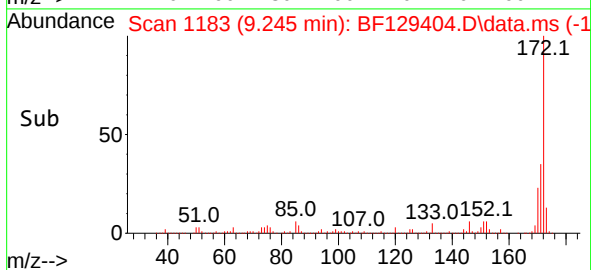
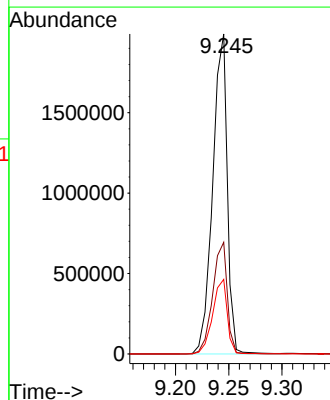
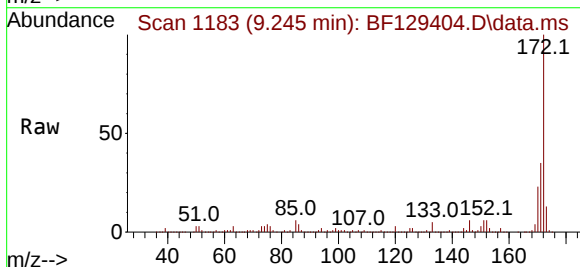
Tgt Ion:172 Resp: 1900565

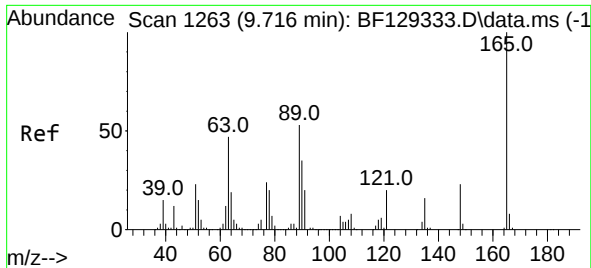
Ion Ratio Lower Upper

172 100

171 34.9 28.8 43.2

170 23.3 19.8 29.8

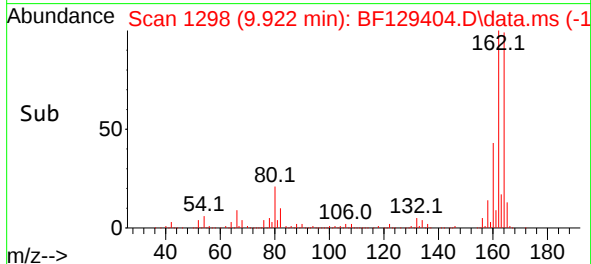
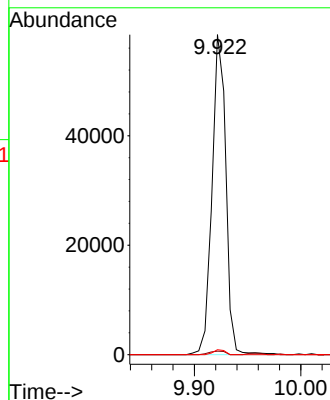
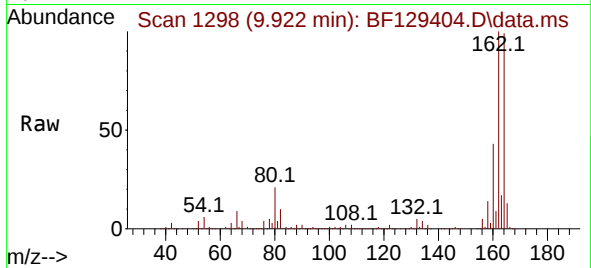




#51  
2,6-Dinitrotoluene  
Concen: 8.484 ng  
RT: 9.922 min Scan# 1298  
Delta R.T. 0.206 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

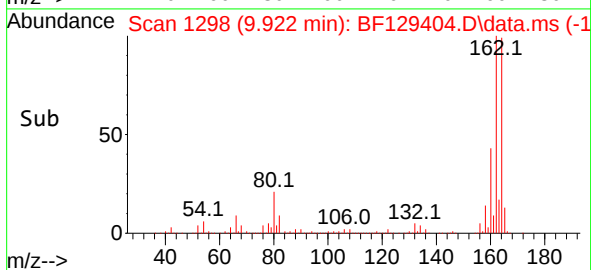
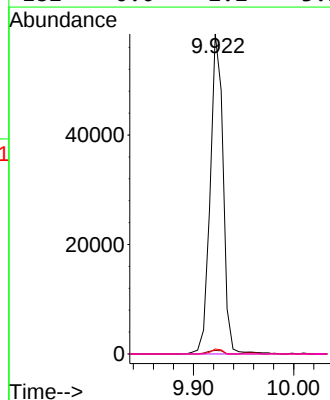
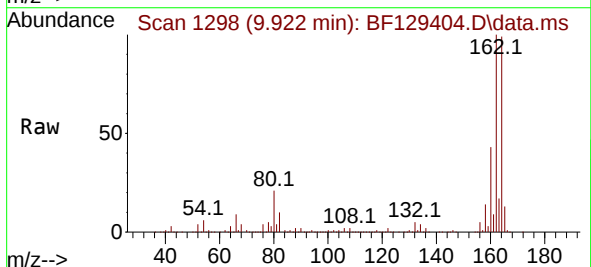
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RVE-8

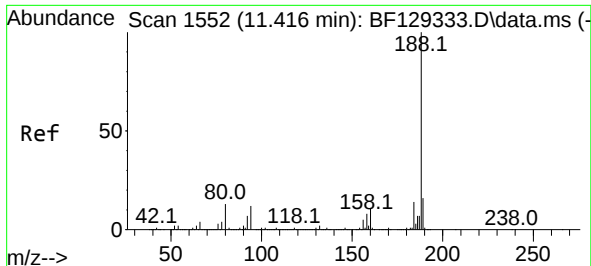
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Ion Ratio Lower Upper  
165 100  
63 1.1 44.9 67.3#  
89 1.5 43.6 65.4#



#57  
2,4-Dinitrotoluene  
Concen: 6.494 ng  
RT: 9.922 min Scan# 1298  
Delta R.T. -0.200 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion:165 Resp: 52627  
Ion Ratio Lower Upper  
165 100  
63 1.1 39.8 59.6#  
89 1.5 60.2 90.2#  
182 0.0 2.2 3.2#

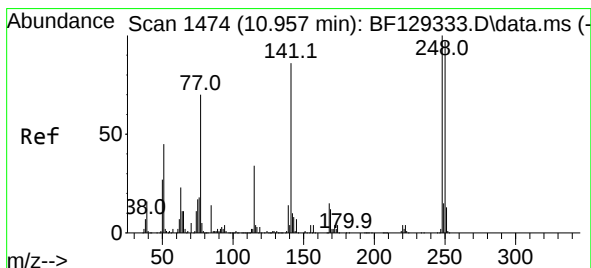
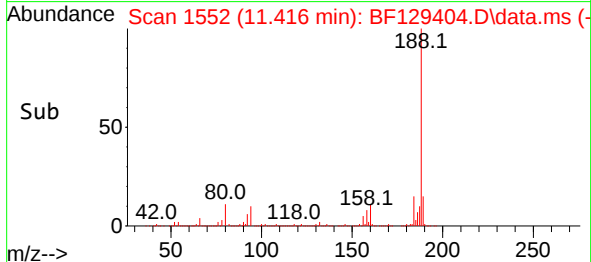
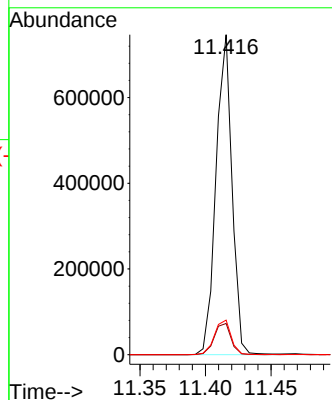
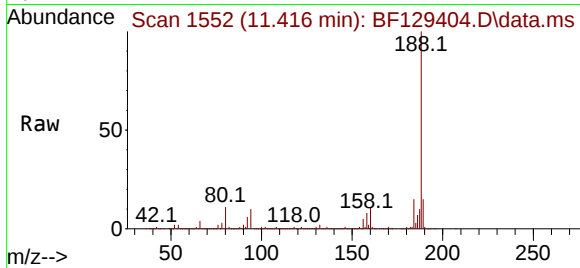




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

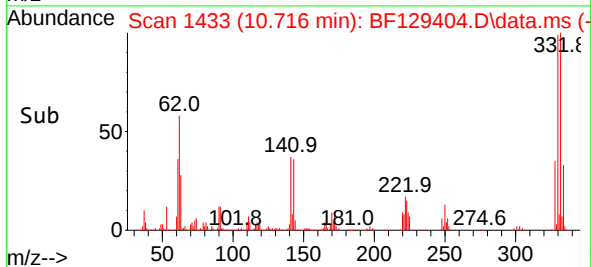
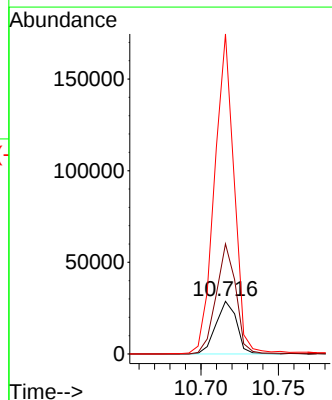
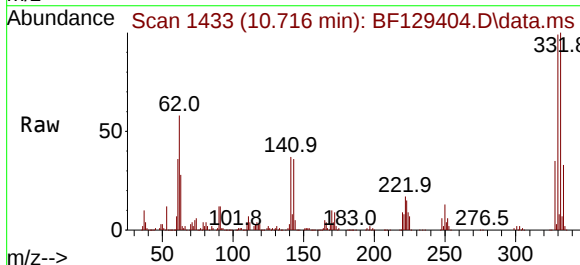
Instrument :  
BNA\_F  
ClientSampleId :  
RVE-8

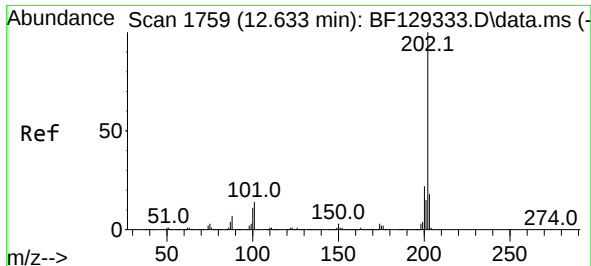
Tgt Ion:188 Resp: 632987  
Ion Ratio Lower Upper  
188 100  
94 9.7 7.0 10.6  
80 10.8 7.6 11.4



#67  
4-Bromophenyl-phenylether  
Concen: 3.861 ng  
RT: 10.716 min Scan# 1433  
Delta R.T. -0.241 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion:248 Resp: 26763  
Ion Ratio Lower Upper  
248 100  
250 209.0 80.6 120.8#  
141 607.4 58.9 88.3#

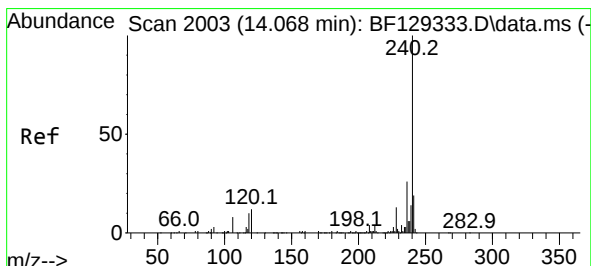
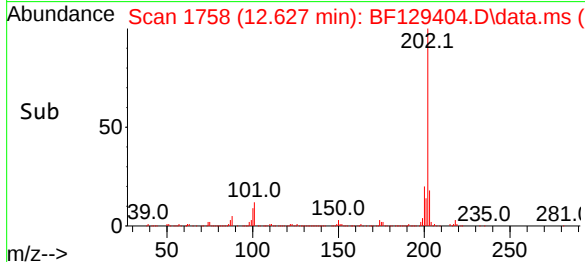
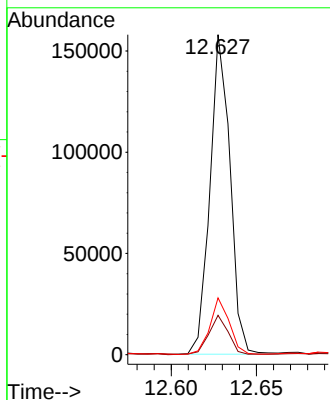
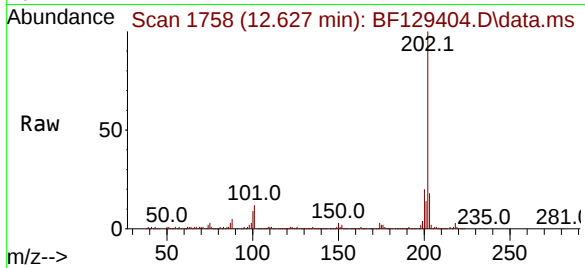




#75  
Fluoranthene  
Concen: 3.712 ng  
RT: 12.627 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

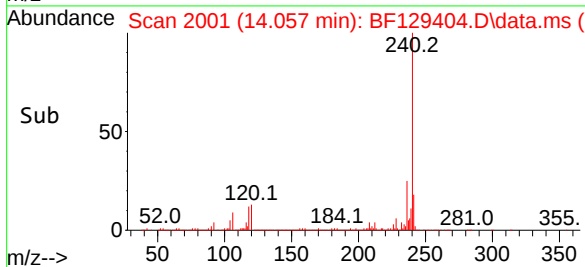
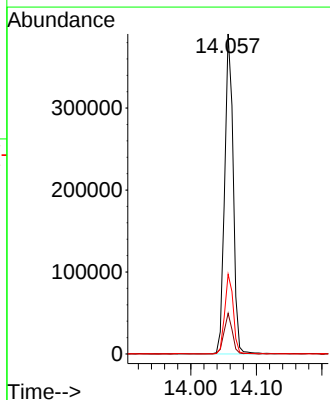
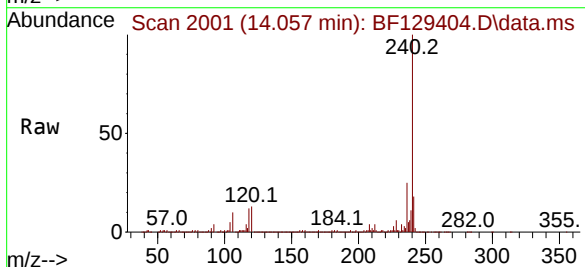
Instrument :  
BNA\_F  
ClientSampleId :  
RVE-8

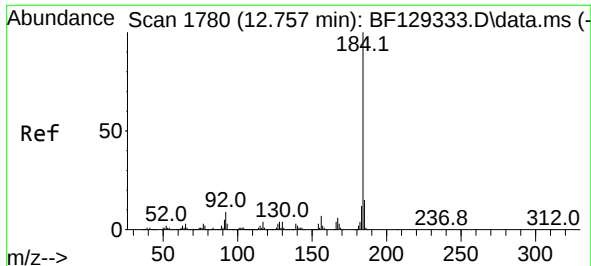
Tgt Ion:202 Resp: 129958  
Ion Ratio Lower Upper  
202 100  
101 12.3 0.0 31.4  
203 17.8 0.0 38.0



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2001  
Delta R.T. -0.012 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion:240 Resp: 350710  
Ion Ratio Lower Upper  
240 100  
120 12.7 8.9 13.3  
236 24.9 20.8 31.2

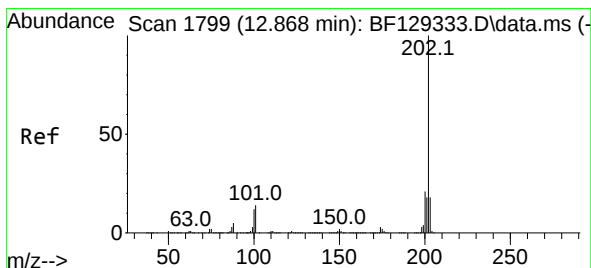
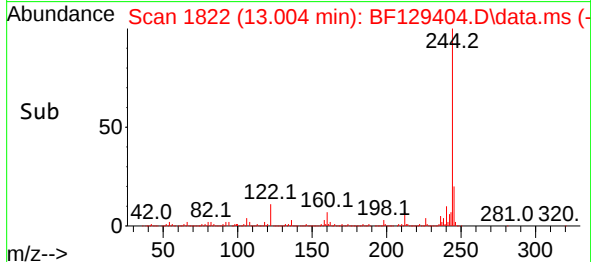
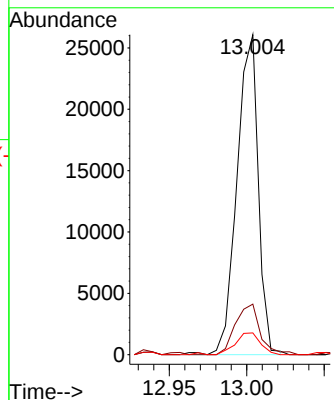
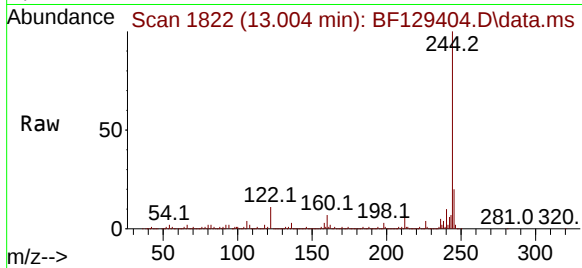




#77  
Benzidine  
Concen: 2.013 ng  
RT: 13.004 min Scan# 1780  
Delta R.T. 0.247 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

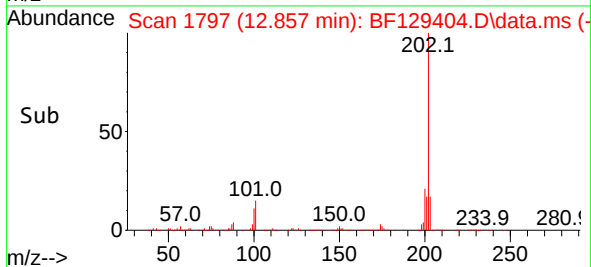
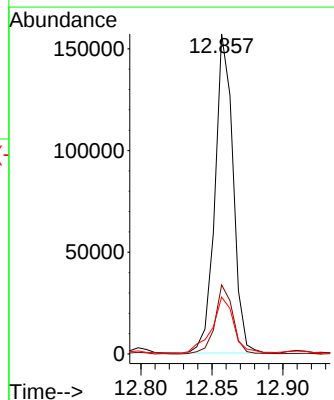
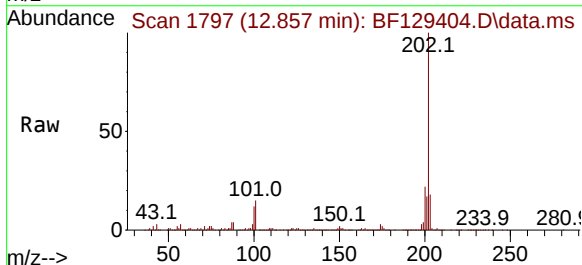
Instrument :  
BNA\_F  
ClientSampleId :  
RVE-8

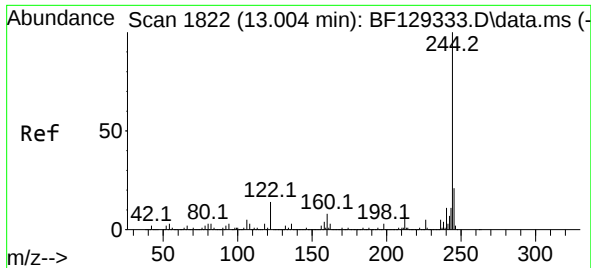
Tgt Ion:184 Resp: 24936  
Ion Ratio Lower Upper  
184 100  
185 15.8 11.9 17.9  
183 6.8 9.3 13.9#



#78  
Pyrene  
Concen: 4.746 ng  
RT: 12.857 min Scan# 1797  
Delta R.T. -0.012 min  
Lab File: BF129404.D  
Acq: 28 Jul 2022 12:31

Tgt Ion:202 Resp: 139183  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.7 26.5  
203 17.8 14.6 21.8

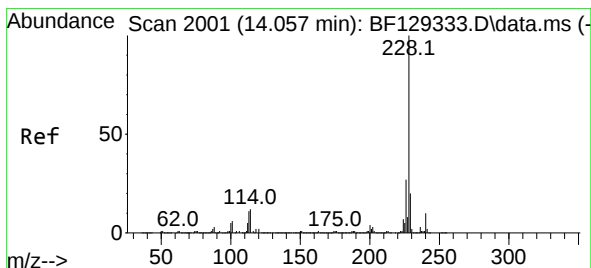
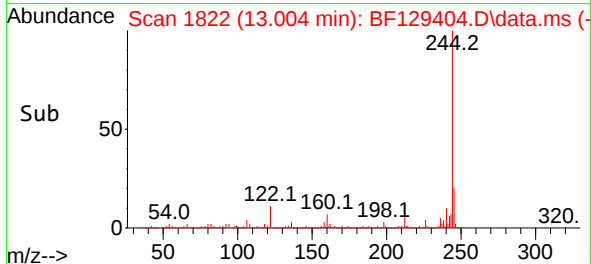
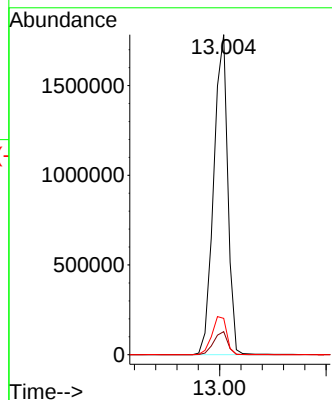
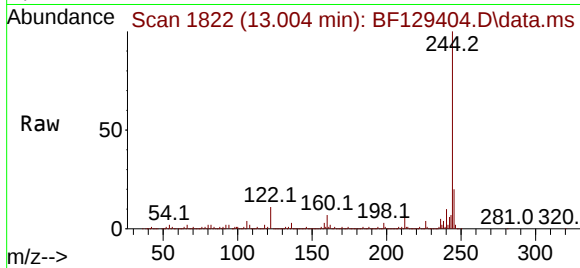




#79  
 Terphenyl-d14  
 Concen: 87.791 ng  
 RT: 13.004 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: BF129404.D  
 Acq: 28 Jul 2022 12:31

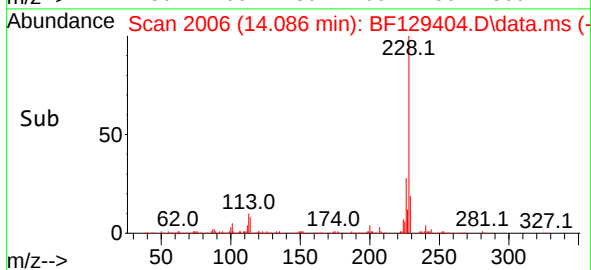
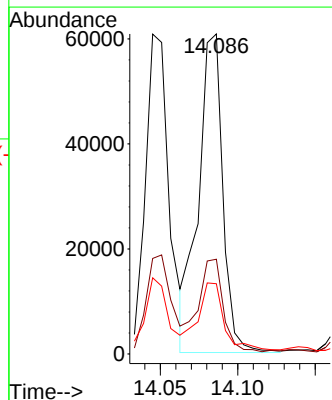
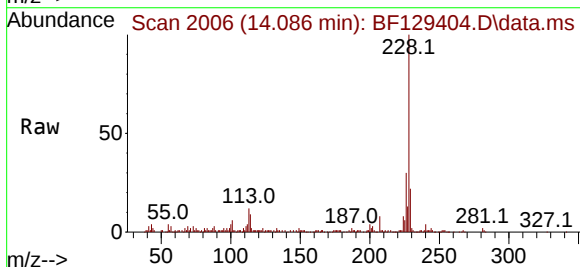
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RVE-8

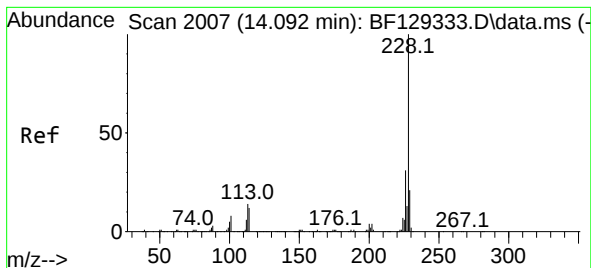
Tgt Ion:244 Resp: 1632005  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.1 9.1  
 122 11.3 8.8 13.2



#81  
 Benzo(a)anthracene  
 Concen: 2.785 ng  
 RT: 14.086 min Scan# 2006  
 Delta R.T. 0.030 min  
 Lab File: BF129404.D  
 Acq: 28 Jul 2022 12:31

Tgt Ion:228 Resp: 66715  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 22.1 33.1  
 229 21.9 15.8 23.8





#83

Chrysene

Concen: 2.955 ng

RT: 14.086 min Scan# 2006

Delta R.T. -0.006 min

Lab File: BF129404.D

Acq: 28 Jul 2022 12:31

Instrument :

BNA\_F

ClientSampleId :

RVE-8

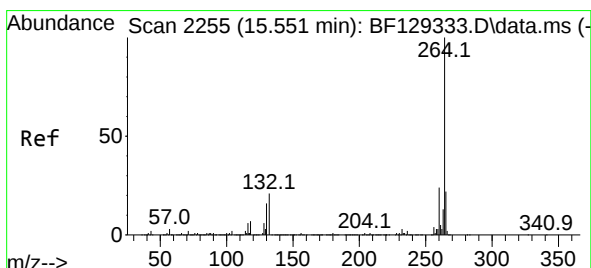
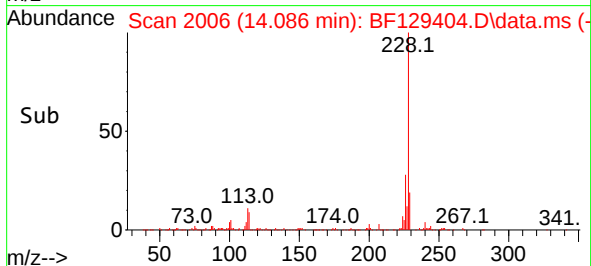
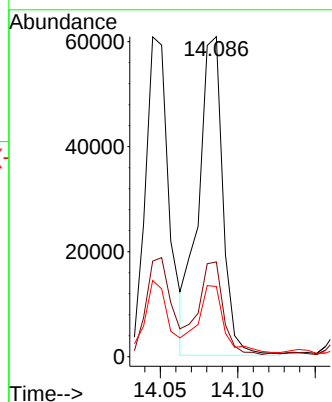
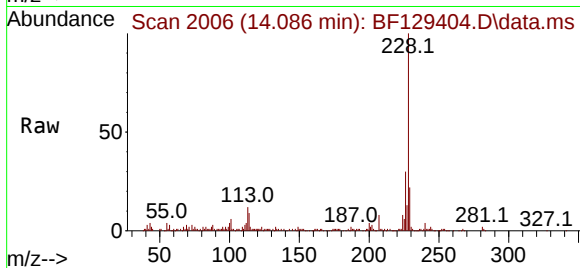
Tgt Ion:228 Resp: 66715

Ion Ratio Lower Upper

228 100

226 29.6 24.3 36.5

229 21.9 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2255

Delta R.T. 0.000 min

Lab File: BF129404.D

Acq: 28 Jul 2022 12:31

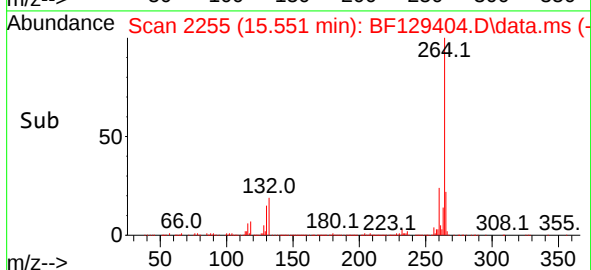
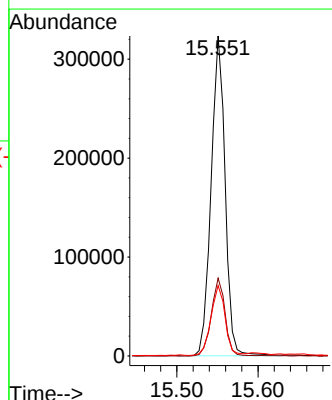
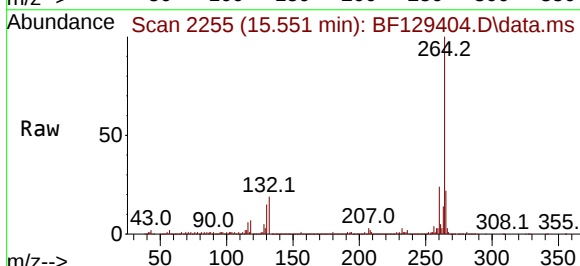
Tgt Ion:264 Resp: 385648

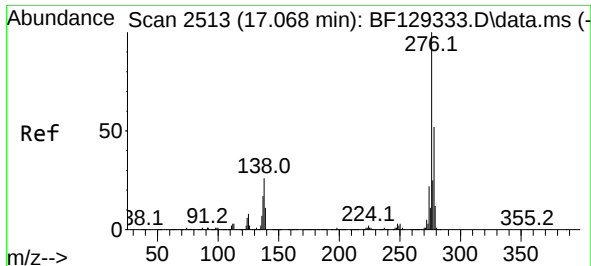
Ion Ratio Lower Upper

264 100

260 24.3 18.4 27.6

265 22.0 17.2 25.8

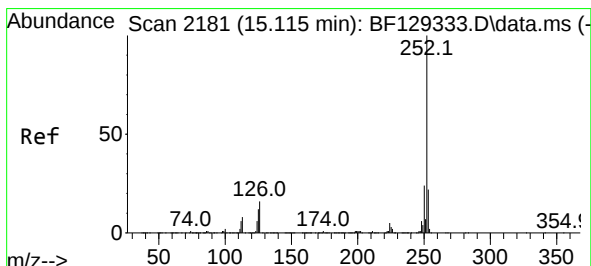
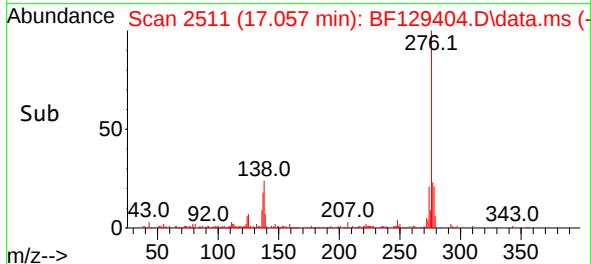
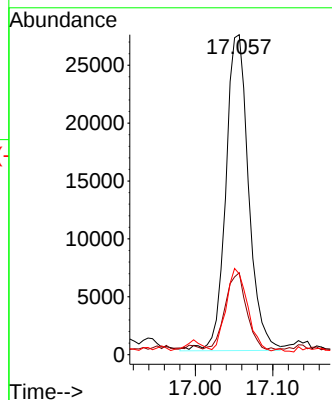
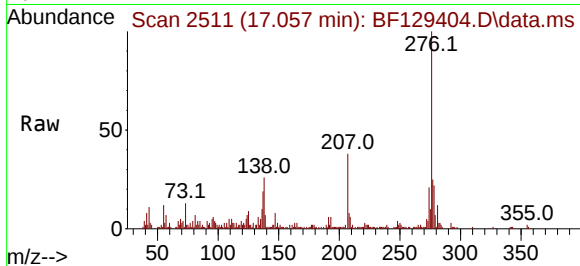




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.157 ng  
 RT: 17.057 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: BF129404.D  
 Acq: 28 Jul 2022 12:31

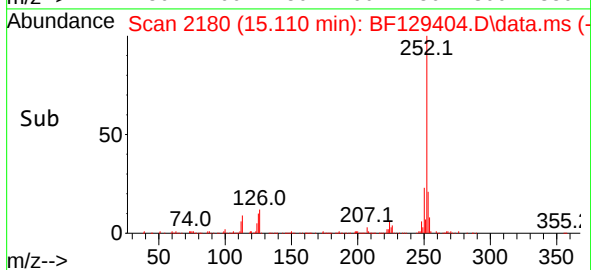
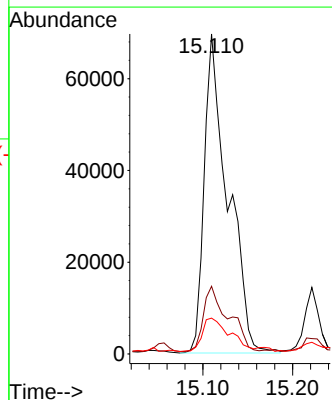
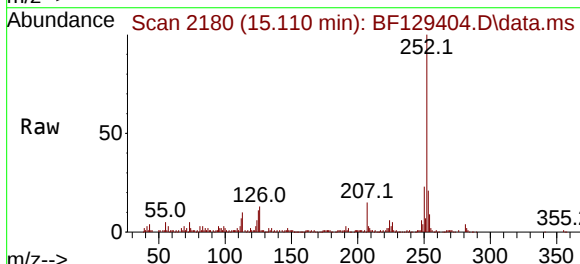
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RVE-8

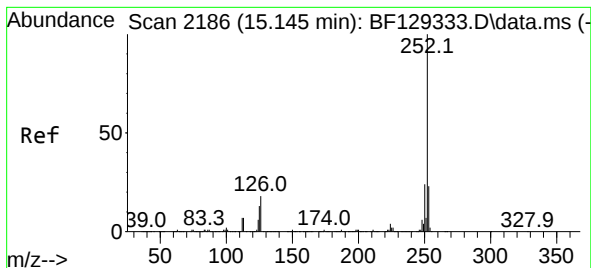
Tgt Ion:276 Resp: 56020  
 Ion Ratio Lower Upper  
 276 100  
 138 22.6 21.1 31.7  
 277 24.3 20.3 30.5



#88  
 Benzo(b)fluoranthene  
 Concen: 4.986 ng  
 RT: 15.110 min Scan# 2180  
 Delta R.T. -0.006 min  
 Lab File: BF129404.D  
 Acq: 28 Jul 2022 12:31

Tgt Ion:252 Resp: 127550  
 Ion Ratio Lower Upper  
 252 100  
 253 21.2 17.7 26.5  
 125 11.2 8.0 12.0





#89

Benzo(k)fluoranthene

Concen: 5.088 ng

RT: 15.110 min Scan# 2186

Delta R.T. -0.035 min

Lab File: BF129404.D

Acq: 28 Jul 2022 12:31

Instrument :

BNA\_F

ClientSampleId :

RVE-8

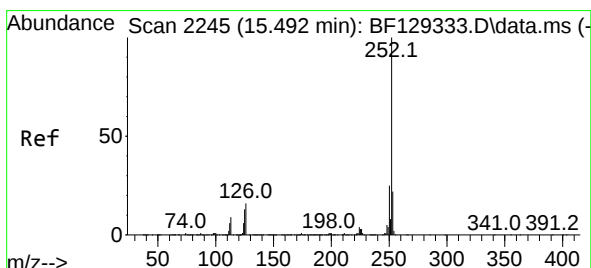
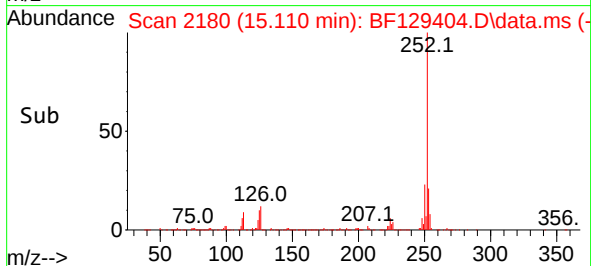
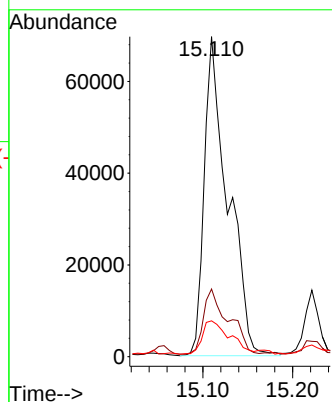
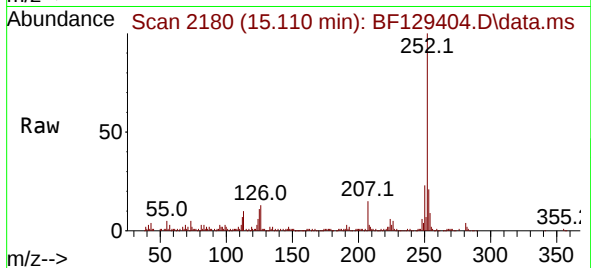
Tgt Ion:252 Resp: 127550

Ion Ratio Lower Upper

252 100

253 21.2 17.8 26.6

125 11.2 8.3 12.5



#90

Benzo(a)pyrene

Concen: 3.594 ng

RT: 15.486 min Scan# 2244

Delta R.T. -0.006 min

Lab File: BF129404.D

Acq: 28 Jul 2022 12:31

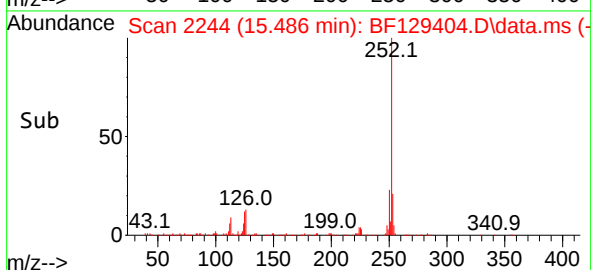
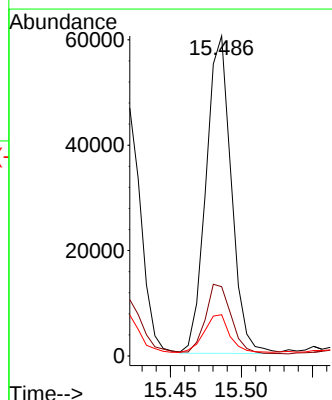
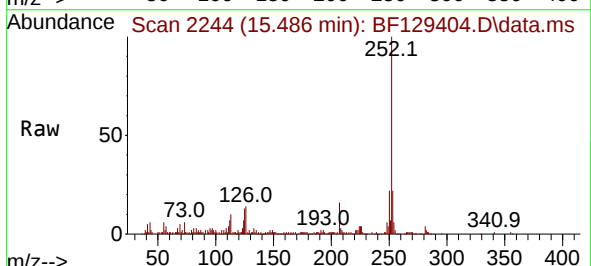
Tgt Ion:252 Resp: 74634

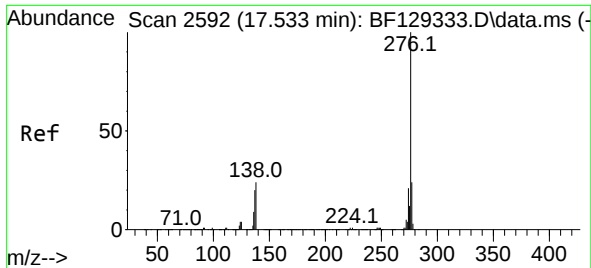
Ion Ratio Lower Upper

252 100

253 21.7 17.0 25.6

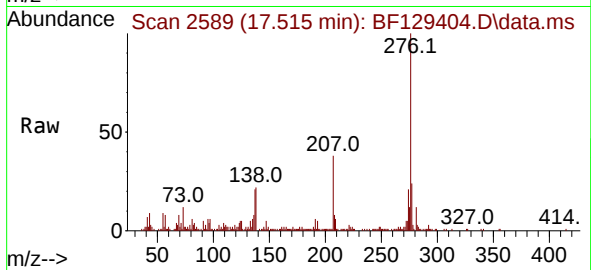
125 12.9 8.8 13.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.813 ng  
 RT: 17.515 min Scan# 21  
 Delta R.T. -0.018 min  
 Lab File: BF129404.D  
 Acq: 28 Jul 2022 12:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RVE-8



Tgt Ion: 276 Resp: 60751  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.3  | 19.1  | 28.7  |
| 138 | 21.6  | 18.0  | 27.0  |

