

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091421\  
 Data File : BF125489.D  
 Acq On : 14 Sep 2021 23:21  
 Operator : JU/CG  
 Sample : M3720-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WQ-SOILPILE

Quant Time: Sep 15 01:08:01 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 14 17:17:24 2021  
 Response via : Initial Calibration

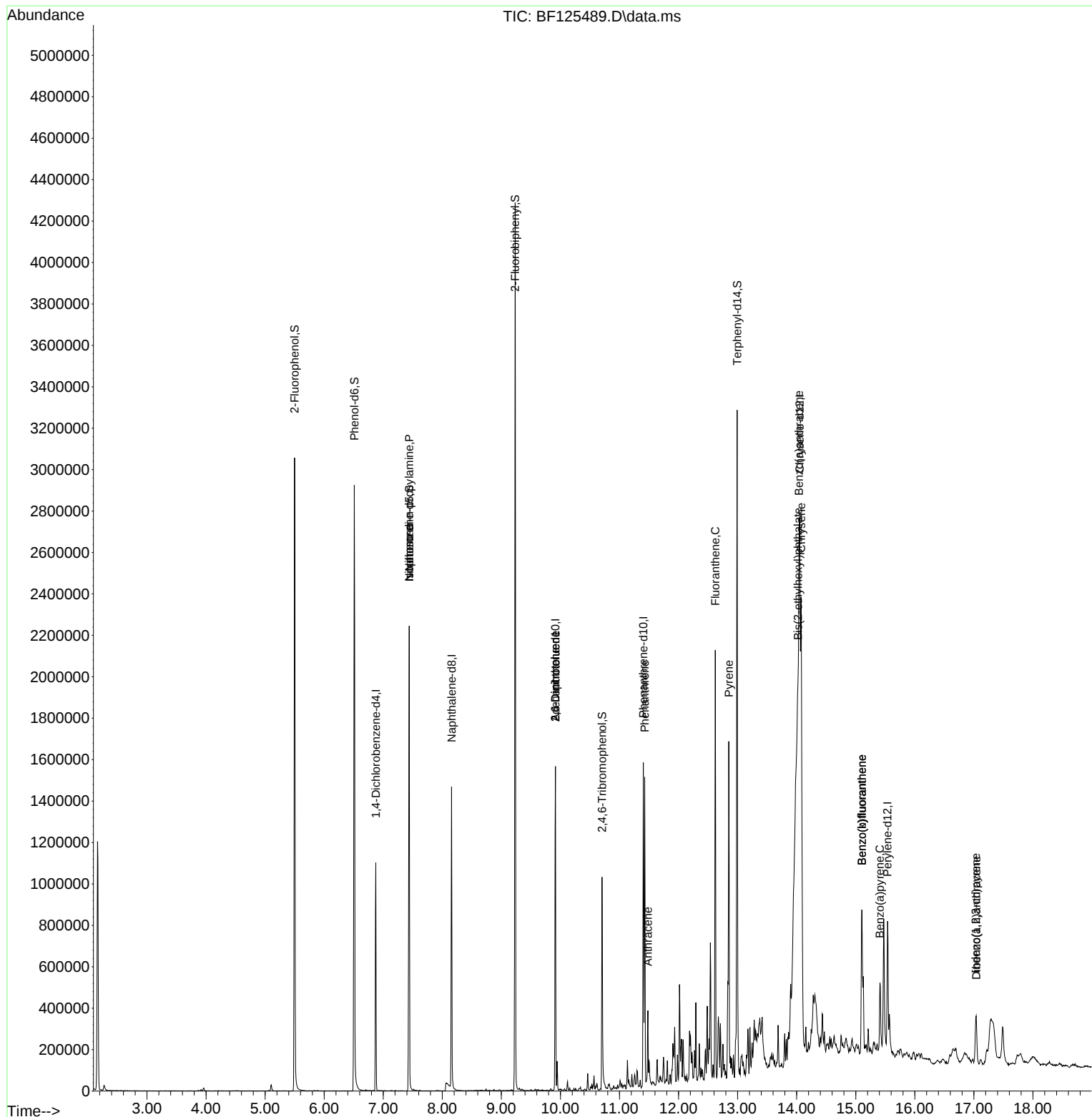
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 150198   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 590113   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.916  | 164  | 315424   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.404 | 188  | 532183   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 217978   | 20.000 | ng    | #-0.01   |
| 86) Perylene-d12              | 15.539 | 264  | 299998   | 20.000 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 798080   | 80.425 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 1044153  | 81.359 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 702573   | 59.938 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 133824   | 42.502 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.233  | 172  | 1275888  | 56.376 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.992 | 244  | 1091478  | 79.771 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.439  | 70   | 95821    | 12.413 | ng    | # 57     |
| 25) Isophorone                | 7.439  | 82   | 702563   | 31.070 | ng    | # 59     |
| 51) 2,6-Dinitrotoluene        | 9.916  | 165  | 39676    | 8.371  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene        | 9.916  | 165  | 39676    | 6.916  | ng    | # 20     |
| 71) Phenanthrene              | 11.427 | 178  | 508291   | 17.334 | ng    | 98       |
| 72) Anthracene                | 11.480 | 178  | 132584   | 4.587  | ng    | 99       |
| 75) Fluoranthene              | 12.621 | 202  | 791963   | 27.219 | ng    | 97       |
| 78) Pyrene                    | 12.851 | 202  | 653236   | 34.936 | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 298155   | 18.984 | ng    | 99       |
| 83) Chrysene                  | 14.074 | 228  | 252501   | 16.257 | ng    | 96       |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149  | 194939   | 19.305 | ng    | # 84     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.033 | 276  | 158821   | 7.349  | ng    | # 88     |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 543166   | 24.783 | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 15.104 | 252  | 543166   | 26.558 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.409 | 252  | 178242   | 9.207  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 17.045 | 278  | 45346    | 2.427  | ng    | 97       |
| -----                         |        |      |          |        |       |          |

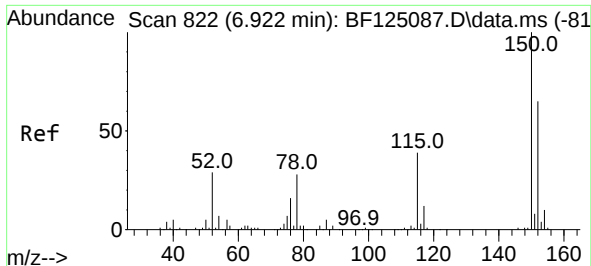
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091421\  
Data File : BF125489.D  
Acq On : 14 Sep 2021 23:21  
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Sample : M3720-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 14 17:17:24 2021  
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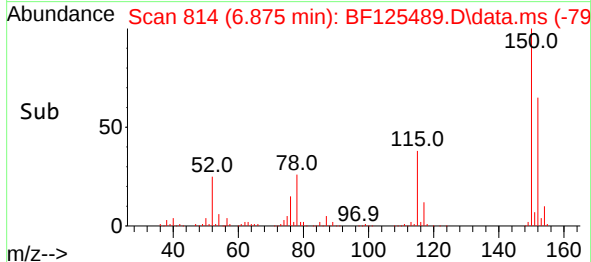
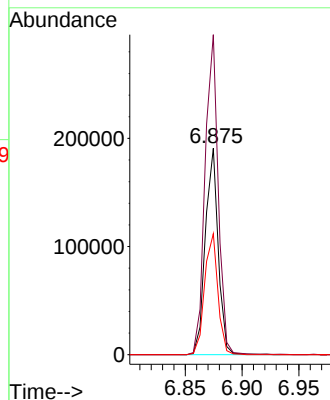
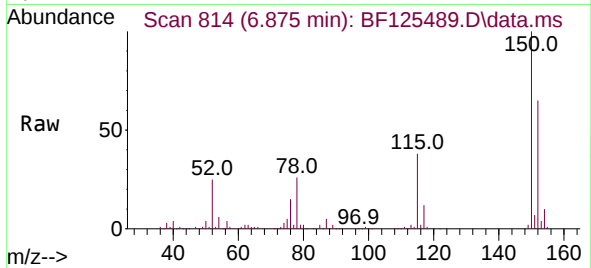




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

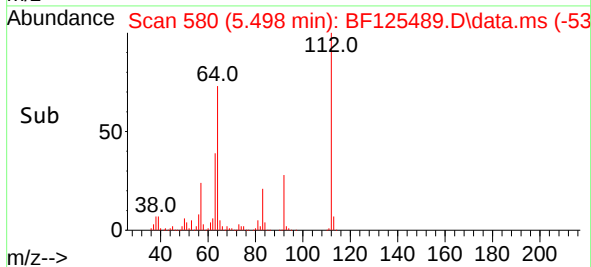
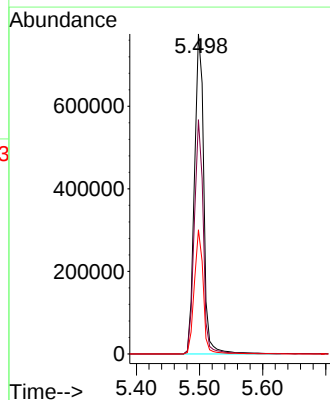
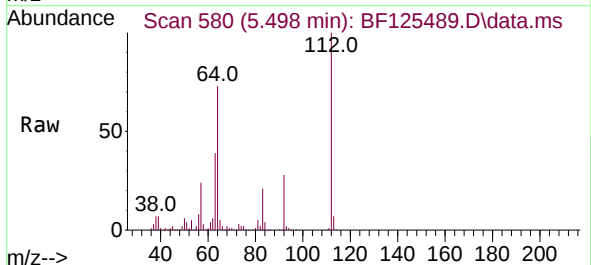
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

Tgt Ion:152 Resp: 150198  
Ion Ratio Lower Upper  
152 100  
150 155.0 117.6 176.4  
115 58.6 47.1 70.7



#5  
2-Fluorophenol  
Concen: 80.425 ng  
RT: 5.498 min Scan# 580  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion:112 Resp: 798080  
Ion Ratio Lower Upper  
112 100  
64 73.2 44.2 66.2#  
63 38.8 26.2 39.2

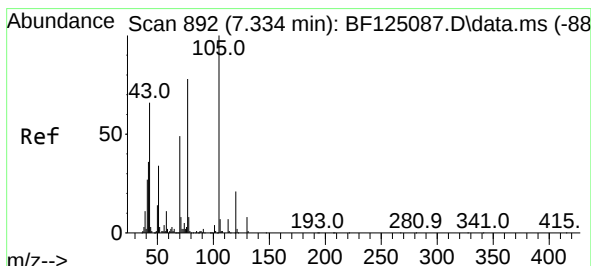
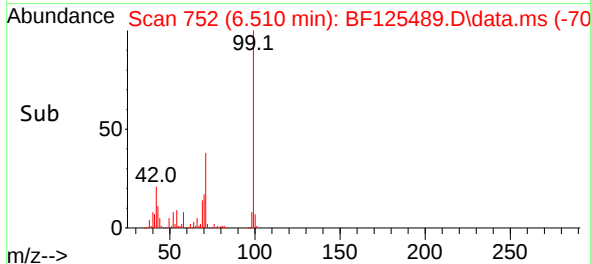
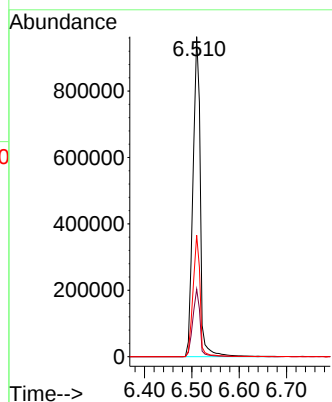
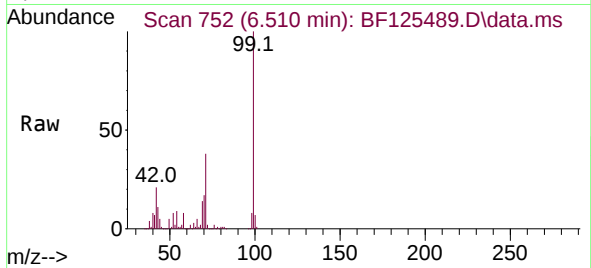




#7  
Phenol-d6  
Concen: 81.359 ng  
RT: 6.510 min Scan# 752  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

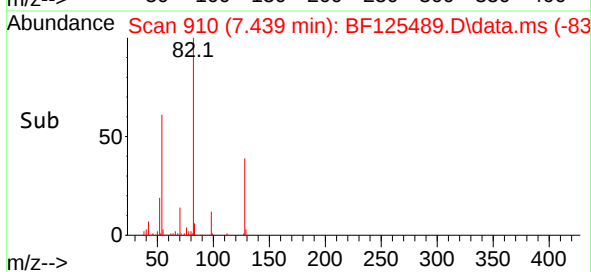
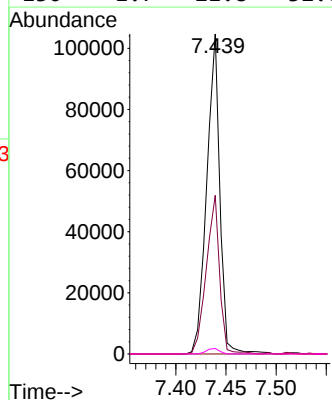
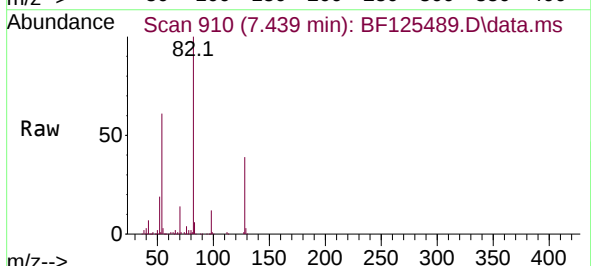
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

Tgt Ion: 99 Resp: 1044153  
Ion Ratio Lower Upper  
99 100  
42 21.1 23.5 35.3#  
71 37.9 25.6 38.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.413 ng  
RT: 7.439 min Scan# 910  
Delta R.T. 0.141 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion: 70 Resp: 95821  
Ion Ratio Lower Upper  
70 100  
42 49.5 72.2 108.2#  
101 0.0 7.8 11.8#  
130 1.7 21.8 32.6#

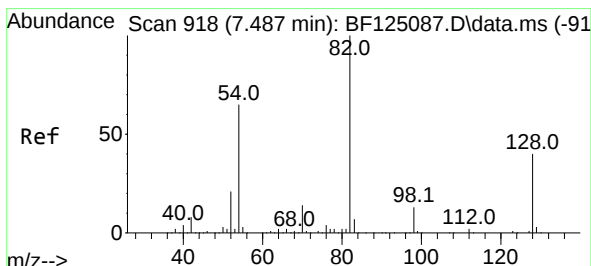
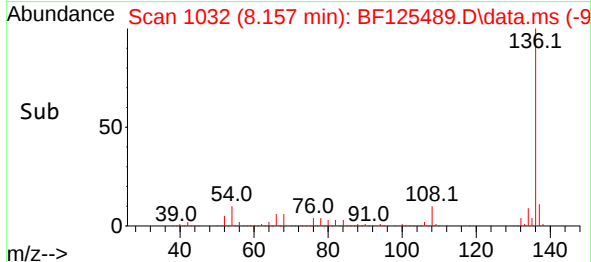
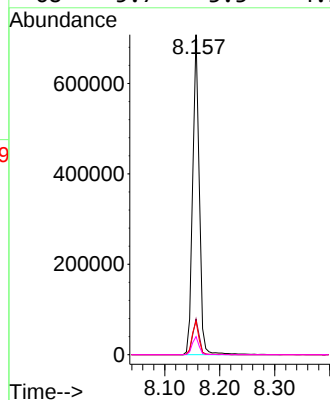
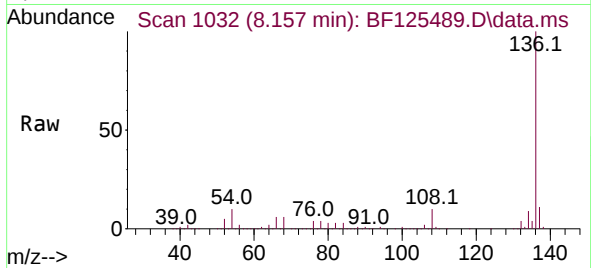




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1032  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

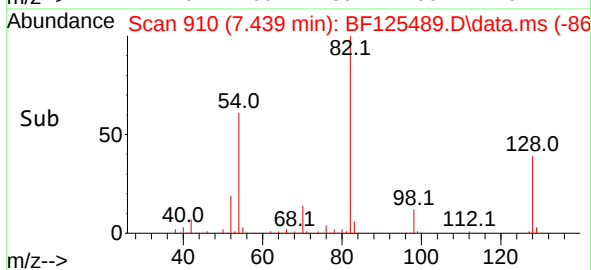
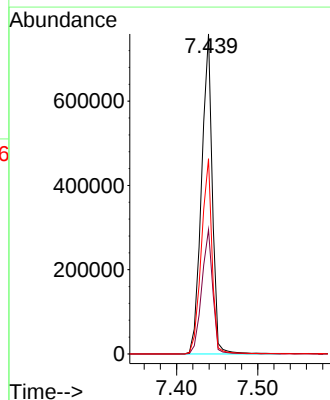
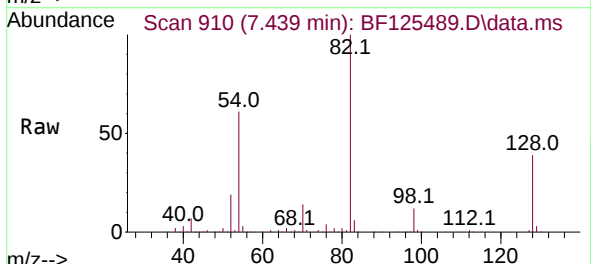
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

|             |               |
|-------------|---------------|
| Tgt Ion:136 | Resp: 590113  |
| Ion Ratio   | Lower Upper   |
| 136         | 100           |
| 137         | 11.1 9.8 14.6 |
| 54          | 10.4 6.4 9.6# |
| 68          | 5.7 3.3 4.9#  |



#23  
Nitrobenzene-d5  
Concen: 59.938 ng  
RT: 7.439 min Scan# 910  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

|             |                 |
|-------------|-----------------|
| Tgt Ion: 82 | Resp: 702573    |
| Ion Ratio   | Lower Upper     |
| 82          | 100             |
| 128         | 38.8 40.6 60.8# |
| 54          | 61.0 49.6 74.4  |

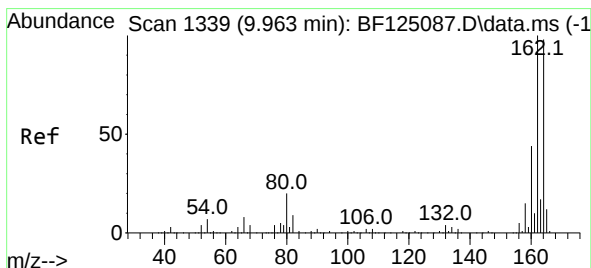
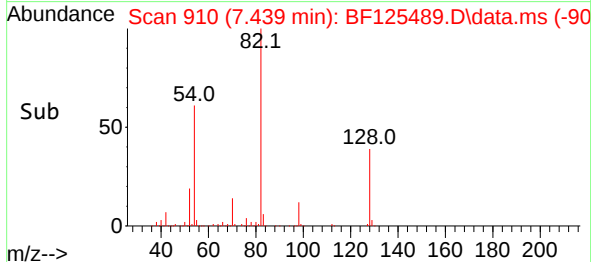
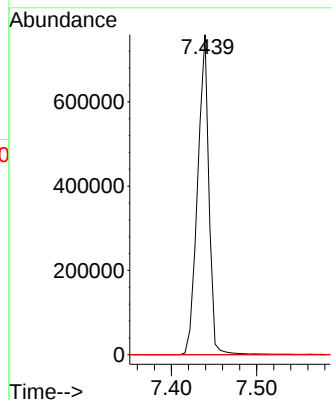
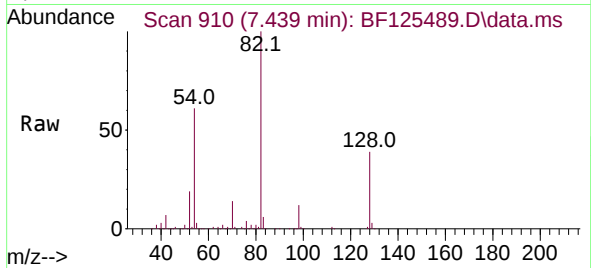




#25  
Isophorone  
Concen: 31.070 ng  
RT: 7.439 min Scan# 910  
Delta R.T. -0.265 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

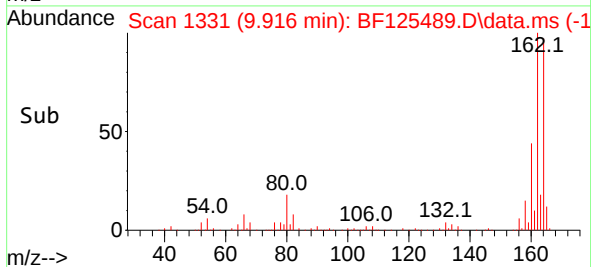
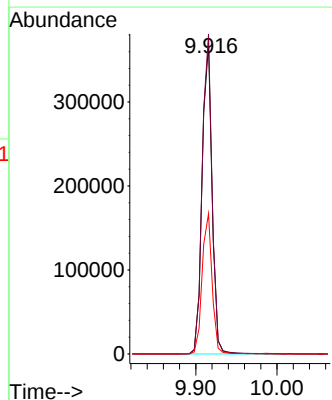
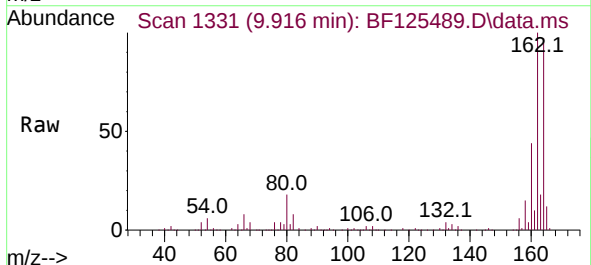
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 82 Resp: 702563  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.5 9.7#  
138 0.0 18.4 27.6#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion: 164 Resp: 315424  
Ion Ratio Lower Upper  
164 100  
162 103.3 81.3 121.9  
160 45.3 38.0 57.0

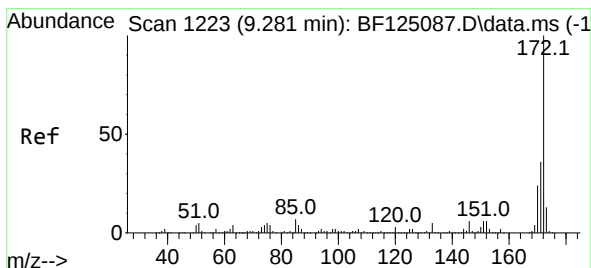
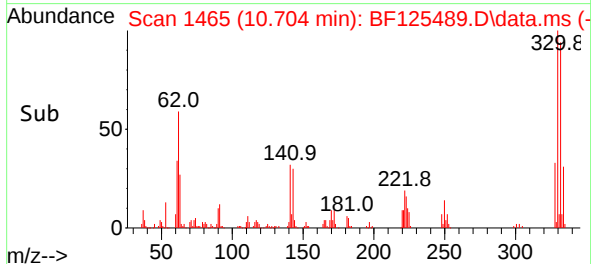
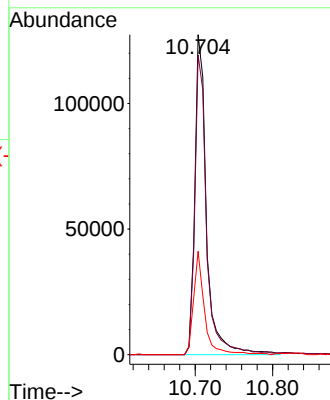
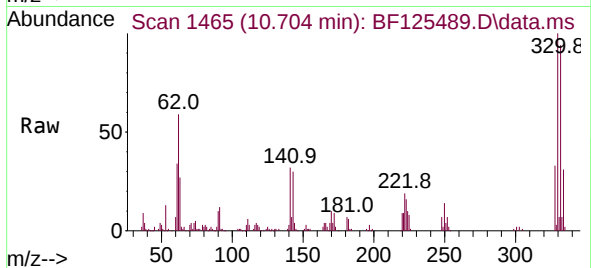




#42  
2,4,6-Tribromophenol  
Concen: 42.502 ng  
RT: 10.704 min Scan# 1465  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

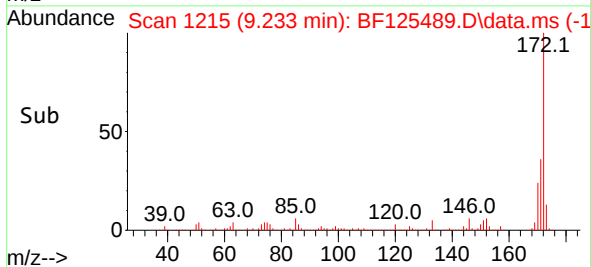
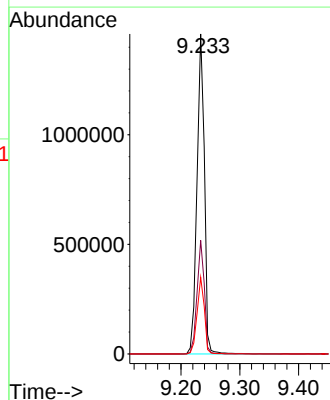
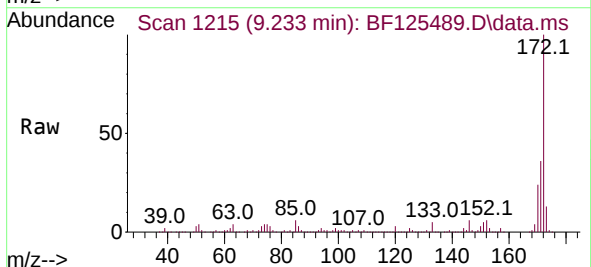
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ClientSampleId :  
WQ-SOILPILE

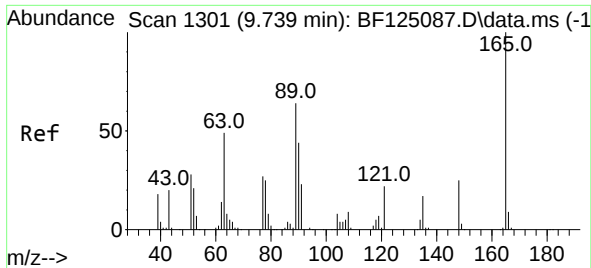
Tgt Ion:330 Resp: 133824  
Ion Ratio Lower Upper  
330 100  
332 94.4 76.2 114.4  
141 30.3 44.6 66.8#



#45  
2-Fluorobiphenyl  
Concen: 56.376 ng  
RT: 9.233 min Scan# 1215  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion:172 Resp: 1275888  
Ion Ratio Lower Upper  
172 100  
171 35.5 26.5 39.7  
170 23.9 18.8 28.2

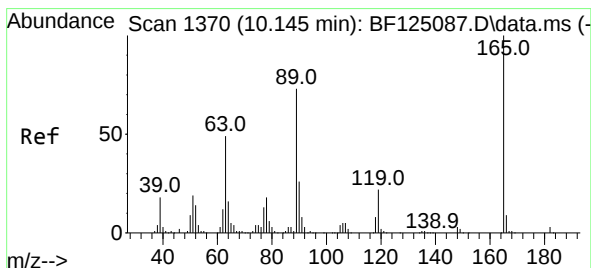
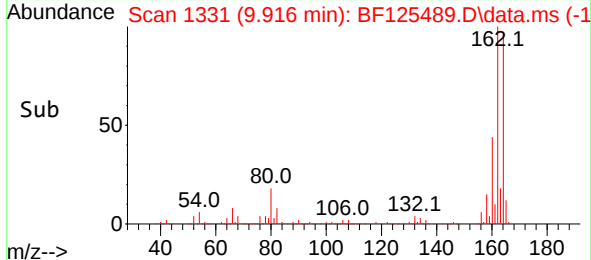
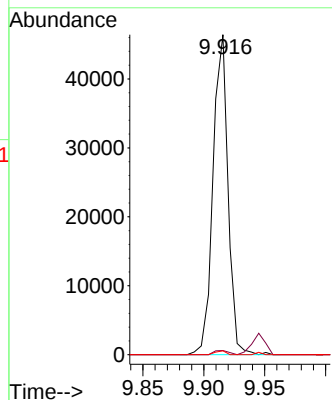
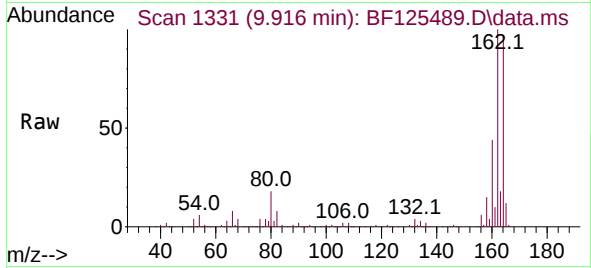




#51  
2,6-Dinitrotoluene  
Concen: 8.371 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. 0.206 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

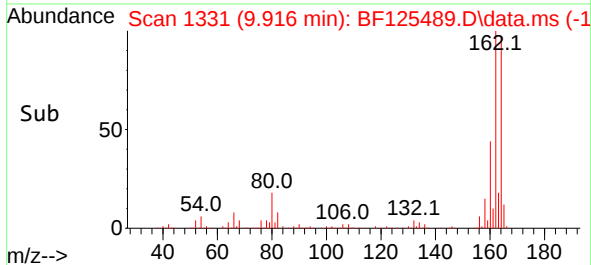
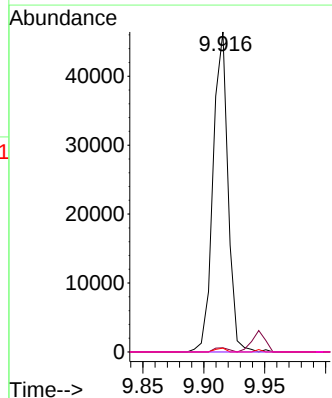
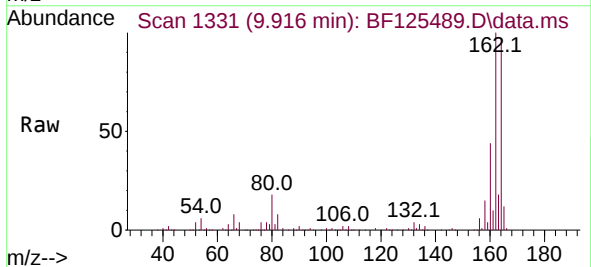
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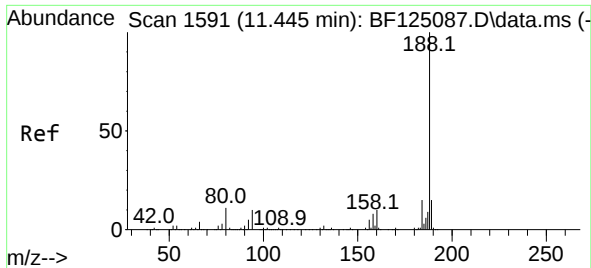
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Ion Ratio Lower Upper  
165 100  
63 1.3 42.6 63.8#  
89 1.2 40.6 60.8#



#57  
2,4-Dinitrotoluene  
Concen: 6.916 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.200 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion:165 Resp: 39676  
Ion Ratio Lower Upper  
165 100  
63 1.3 40.9 61.3#  
89 1.2 59.7 89.5#  
182 0.0 0.0 0.0

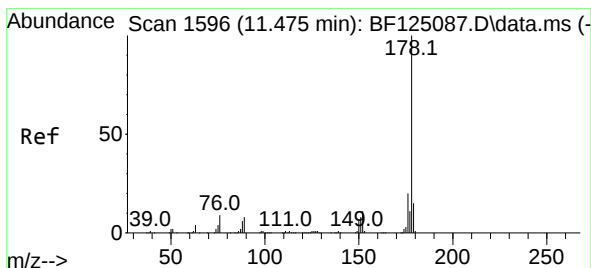
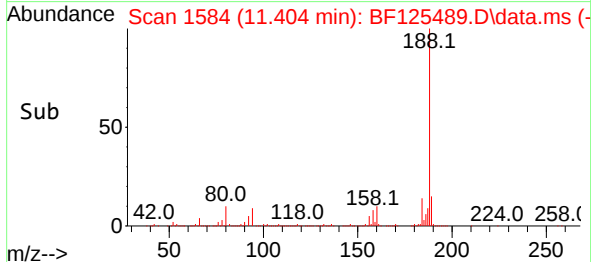
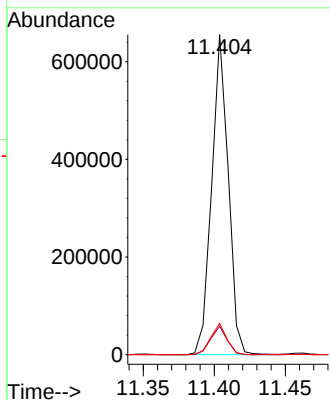
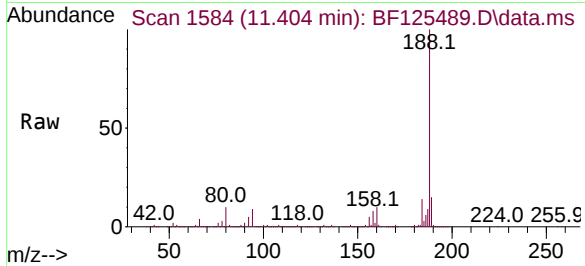




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.404 min Scan# 1584  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

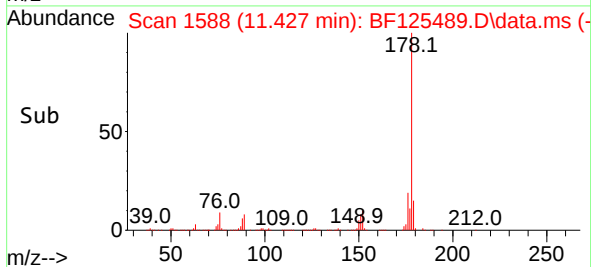
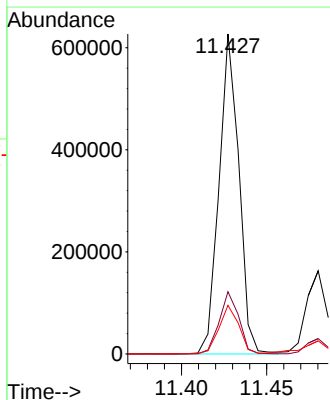
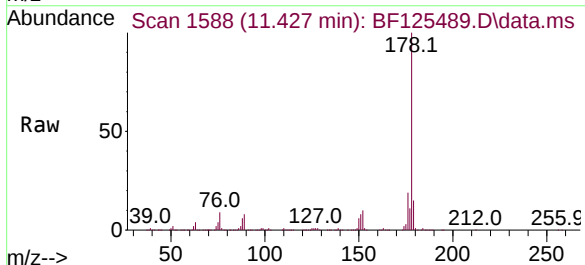
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

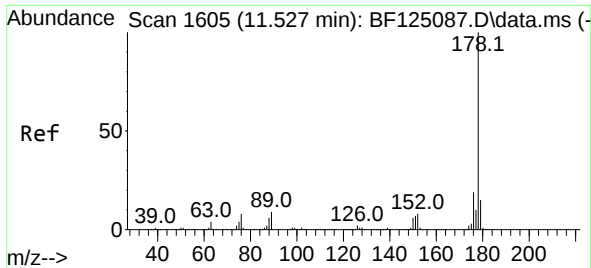
|             |              |
|-------------|--------------|
| Tgt Ion:188 | Resp: 532183 |
| Ion Ratio   | Lower Upper  |
| 188 100     |              |
| 94 8.9      | 6.7 10.1     |
| 80 9.8      | 7.5 11.3     |



#71  
Phenanthrene  
Concen: 17.334 ng  
RT: 11.427 min Scan# 1588  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

|             |              |
|-------------|--------------|
| Tgt Ion:178 | Resp: 508291 |
| Ion Ratio   | Lower Upper  |
| 178 100     |              |
| 176 19.4    | 14.7 22.1    |
| 179 15.2    | 11.5 17.3    |

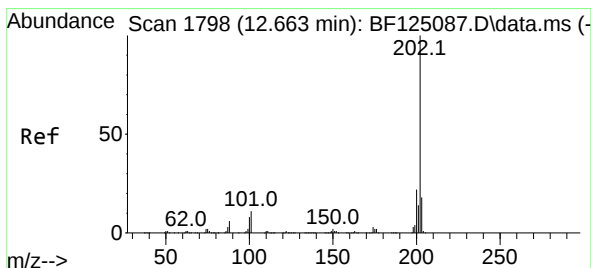
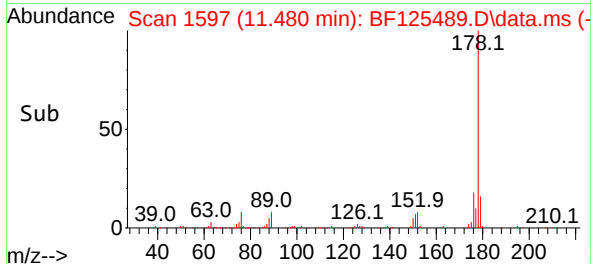
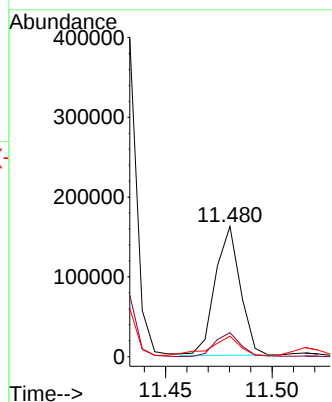
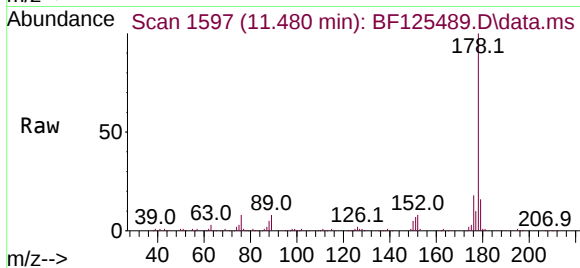




#72  
 Anthracene  
 Concen: 4.587 ng  
 RT: 11.480 min Scan# 1597  
 Delta R.T. -0.012 min  
 Lab File: BF125489.D  
 Acq: 14 Sep 2021 23:21

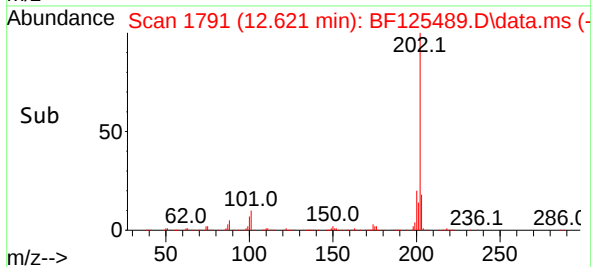
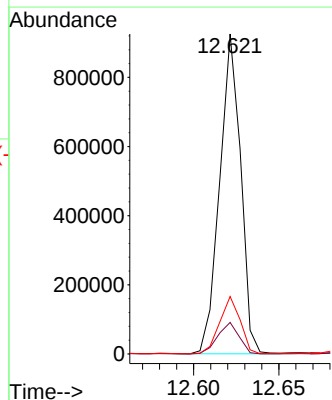
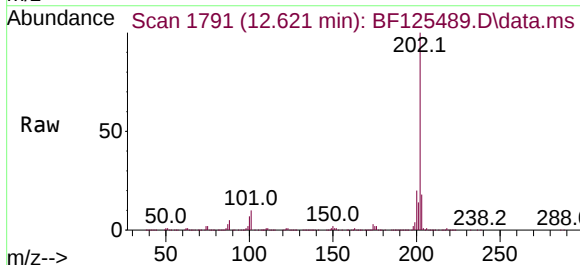
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WQ-SOILPILE

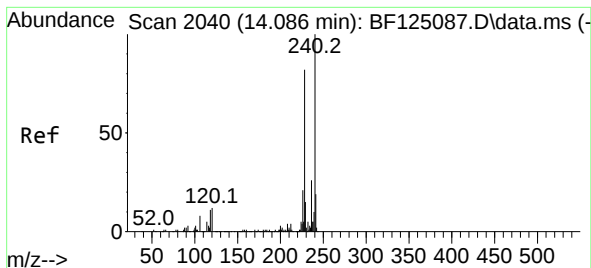
Tgt Ion:178 Resp: 132584  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 14.3 21.5  
 179 15.7 12.2 18.4



#75  
 Fluoranthene  
 Concen: 27.219 ng  
 RT: 12.621 min Scan# 1791  
 Delta R.T. -0.006 min  
 Lab File: BF125489.D  
 Acq: 14 Sep 2021 23:21

Tgt Ion:202 Resp: 791963  
 Ion Ratio Lower Upper  
 202 100  
 101 9.8 0.0 30.7  
 203 17.9 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2034

Delta R.T. -0.012 min

Lab File: BF125489.D

Acq: 14 Sep 2021 23:21

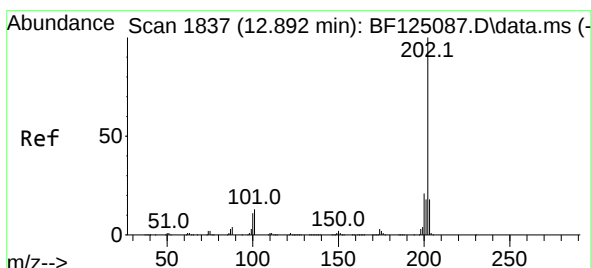
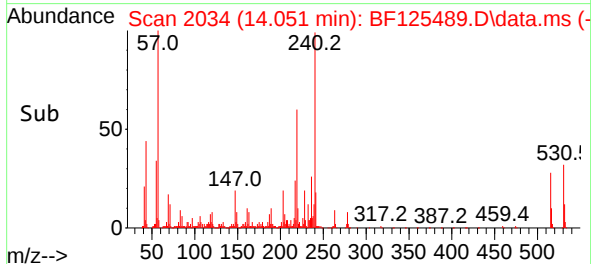
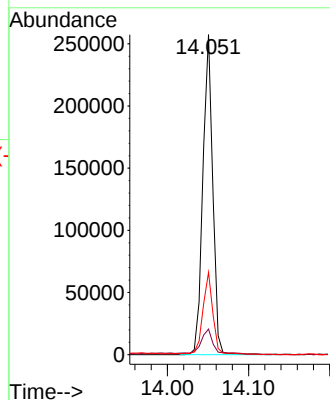
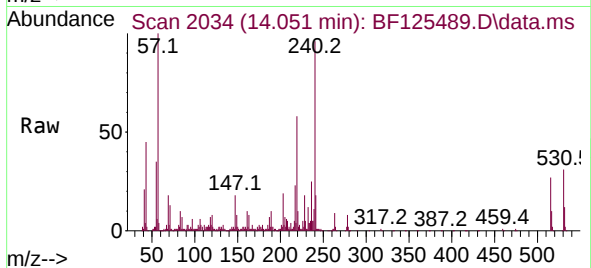
Instrument :

BNA\_F

ClientSampleId :

WQ-SOILPILE

|             |              |
|-------------|--------------|
| Tgt Ion:240 | Resp: 217978 |
| Ion Ratio   | Lower Upper  |
| 240 100     |              |
| 120 8.0     | 10.8 16.2#   |
| 236 25.8    | 21.6 32.4    |



#78

Pyrene

Concen: 34.936 ng

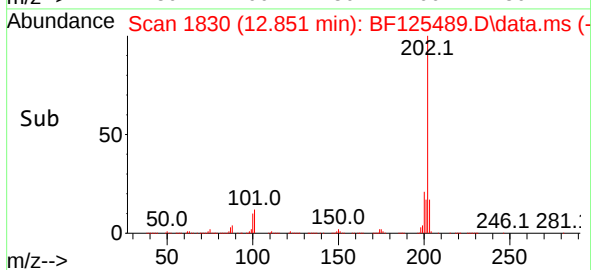
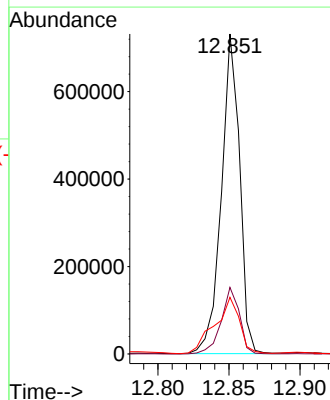
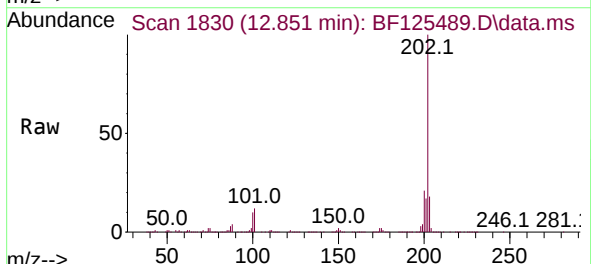
RT: 12.851 min Scan# 1830

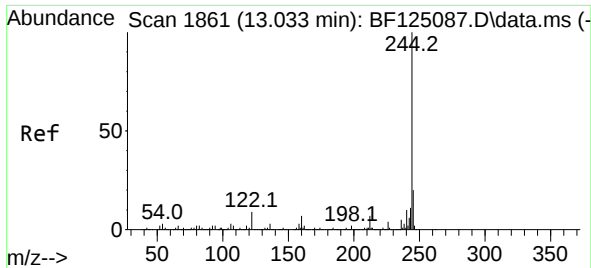
Delta R.T. -0.006 min

Lab File: BF125489.D

Acq: 14 Sep 2021 23:21

|             |              |
|-------------|--------------|
| Tgt Ion:202 | Resp: 653236 |
| Ion Ratio   | Lower Upper  |
| 202 100     |              |
| 200 20.8    | 15.3 22.9    |
| 203 17.7    | 13.4 20.0    |

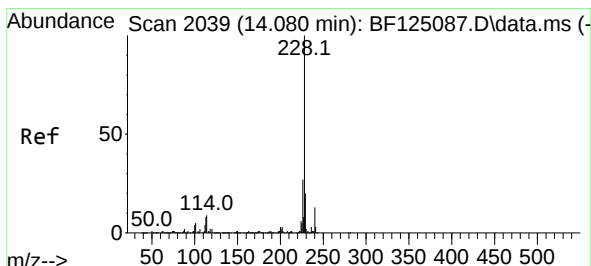
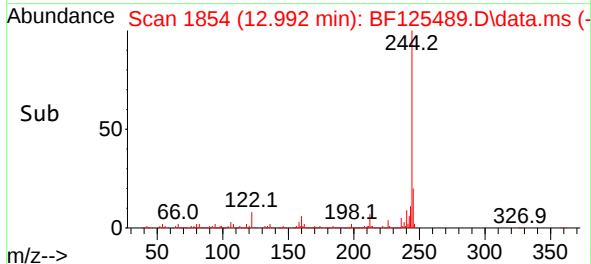
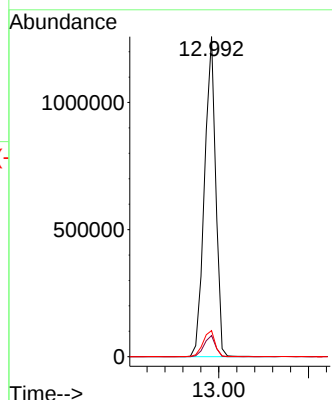
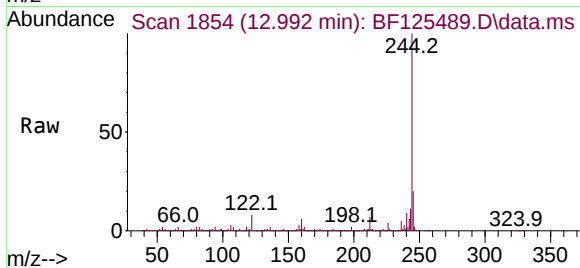




#79  
Terphenyl-d14  
Concen: 79.771 ng  
RT: 12.992 min Scan# 1854  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

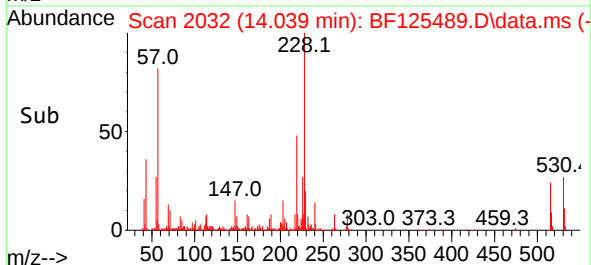
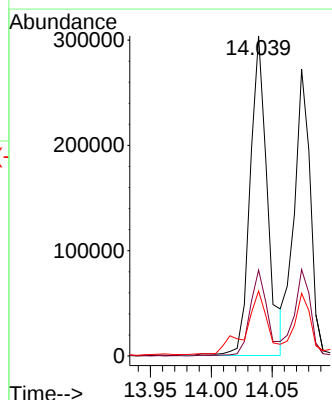
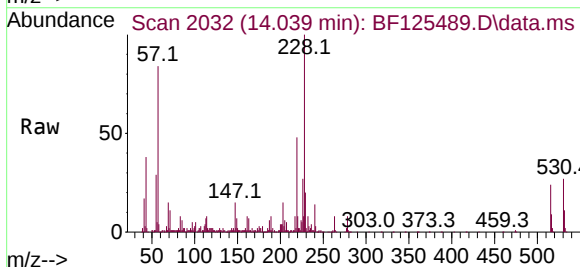
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

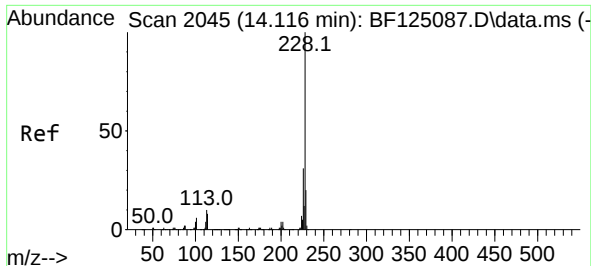
Tgt Ion:244 Resp: 1091478  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.9 8.9  
122 8.2 9.0 13.4#



#81  
Benzo(a)anthracene  
Concen: 18.984 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion:228 Resp: 298155  
Ion Ratio Lower Upper  
228 100  
226 26.9 21.6 32.4  
229 20.3 15.6 23.4

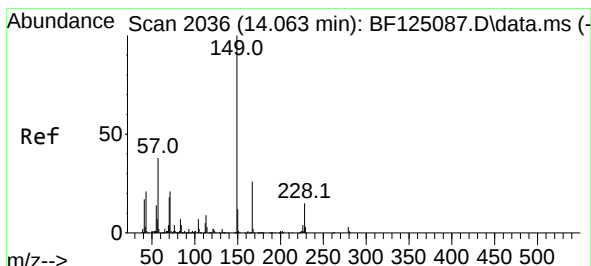
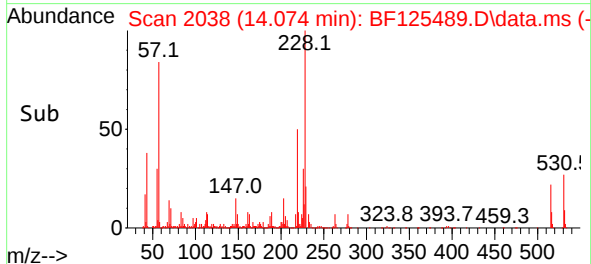
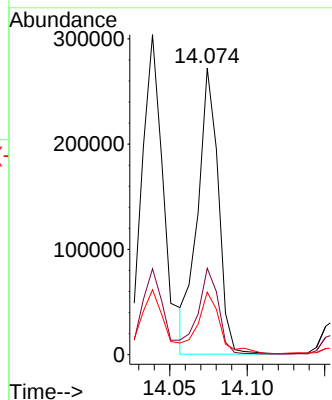
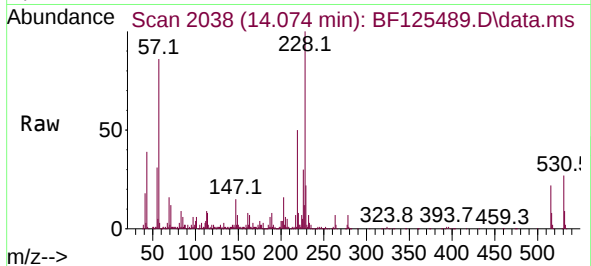




#83  
Chrysene  
Concen: 16.257 ng  
RT: 14.074 min Scan# 2038  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

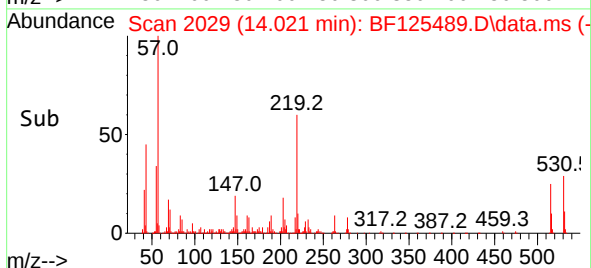
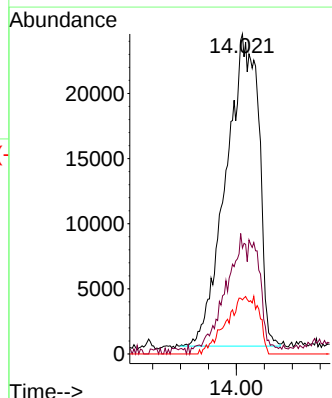
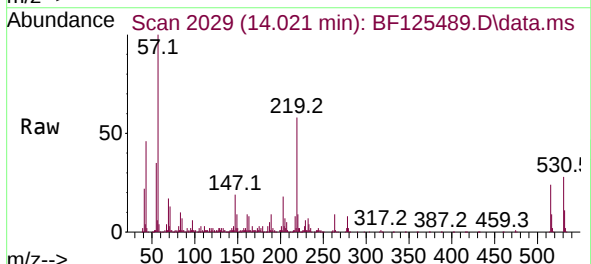
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

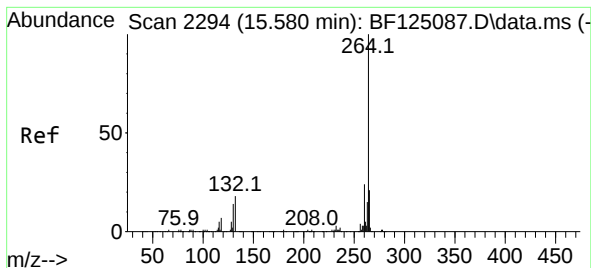
|             |              |
|-------------|--------------|
| Tgt Ion:228 | Resp: 252501 |
| Ion Ratio   | Lower Upper  |
| 228 100     |              |
| 226 30.1    | 22.6 34.0    |
| 229 21.8    | 15.9 23.9    |



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 19.305 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

|             |              |
|-------------|--------------|
| Tgt Ion:149 | Resp: 194939 |
| Ion Ratio   | Lower Upper  |
| 149 100     |              |
| 167 33.1    | 21.4 32.0#   |
| 279 16.9    | 2.6 4.0#     |

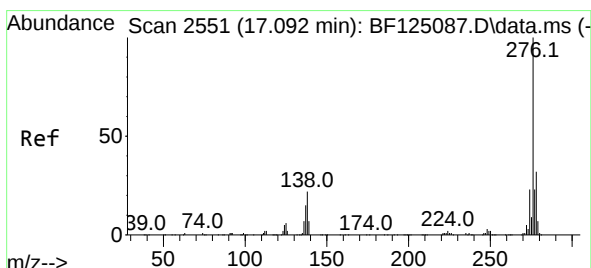
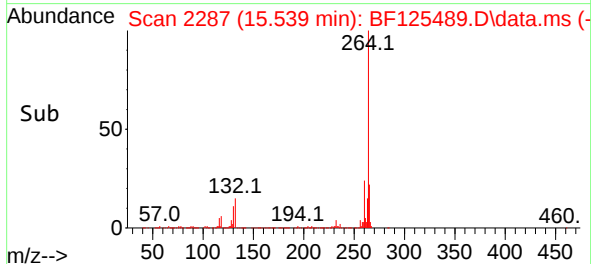
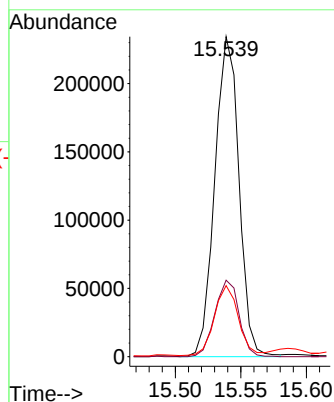
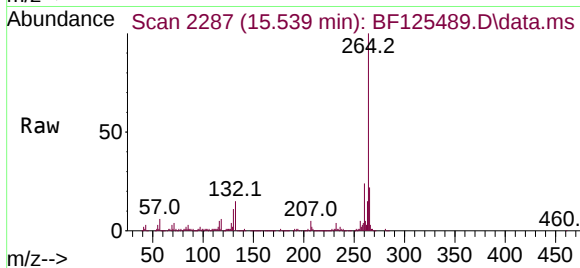




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.539 min Scan# 2287  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

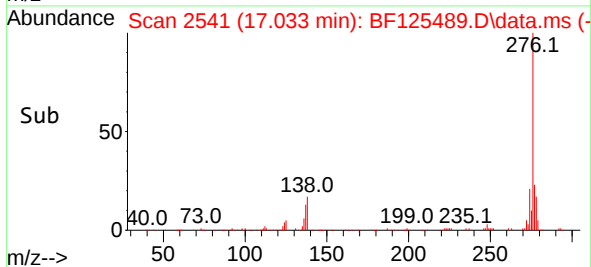
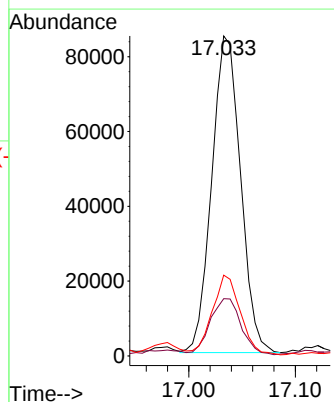
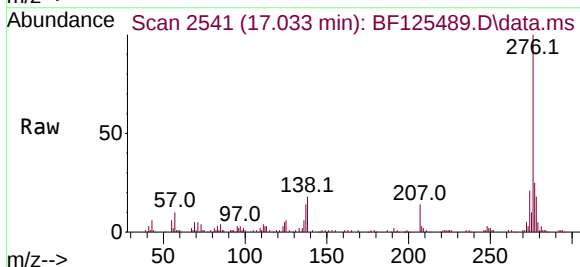
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

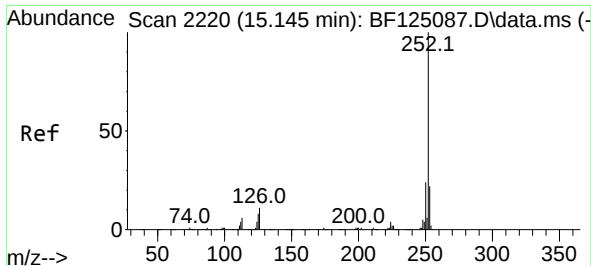
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 299998    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 23.9  | 19.6 29.4 |
| 265         | 22.2  | 17.2 25.8 |



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 7.349 ng  
RT: 17.033 min Scan# 2541  
Delta R.T. -0.030 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:276 | Resp: | 158821     |
| Ion Ratio   | Lower | Upper      |
| 276         | 100   |            |
| 138         | 18.9  | 24.1 36.1# |
| 277         | 24.5  | 18.8 28.2  |

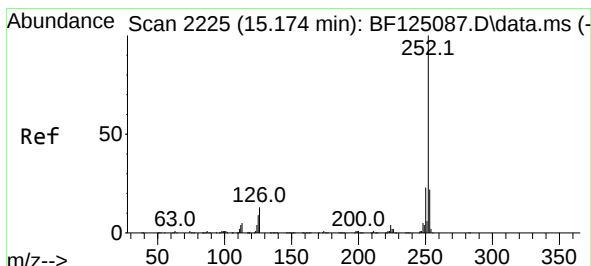
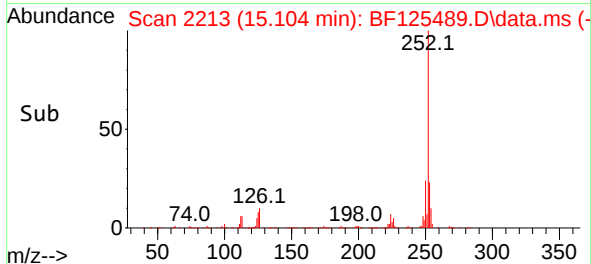
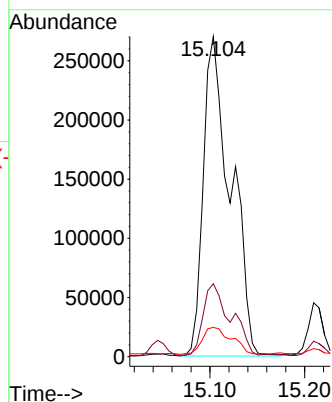
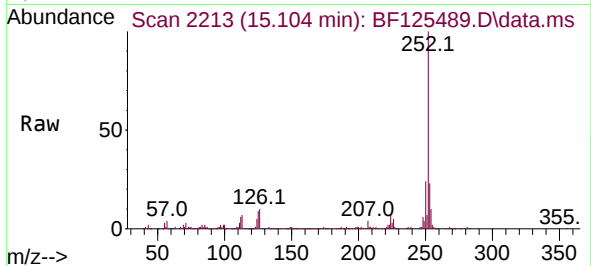




#88  
Benzo(b)fluoranthene  
Concen: 24.783 ng  
RT: 15.104 min Scan# 2213  
Delta R.T. -0.012 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

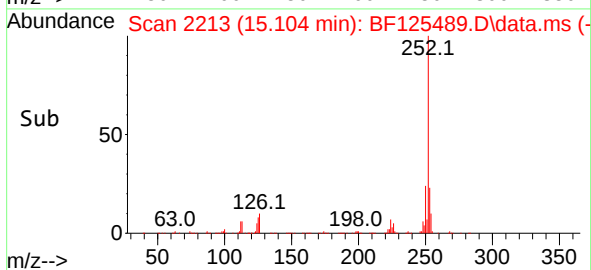
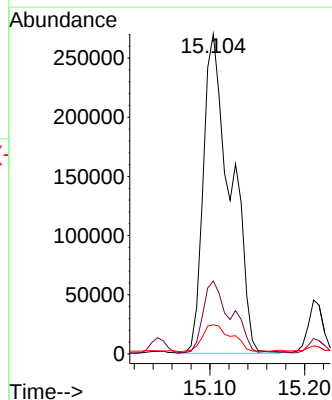
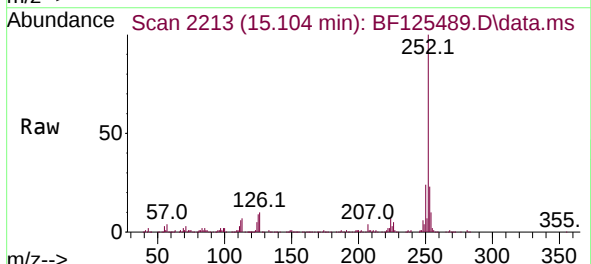
Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

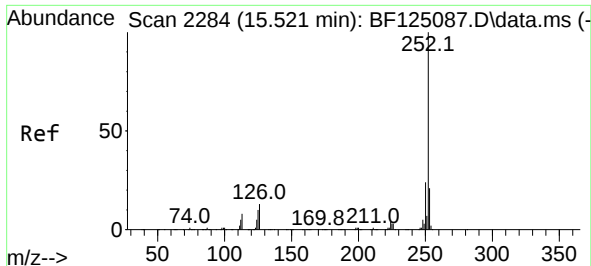
Tgt Ion:252 Resp: 543166  
Ion Ratio Lower Upper  
252 100  
253 22.8 16.8 25.2  
125 9.2 9.8 14.8#



#89  
Benzo(k)fluoranthene  
Concen: 26.558 ng  
RT: 15.104 min Scan# 2213  
Delta R.T. -0.041 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion:252 Resp: 543166  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.8 26.8  
125 9.2 7.2 10.8

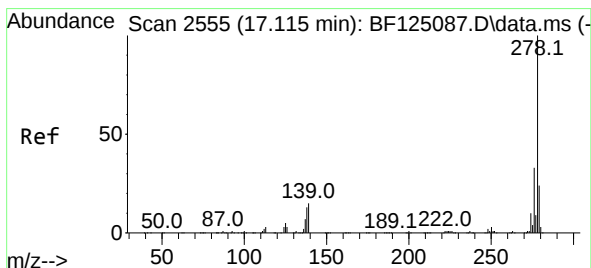
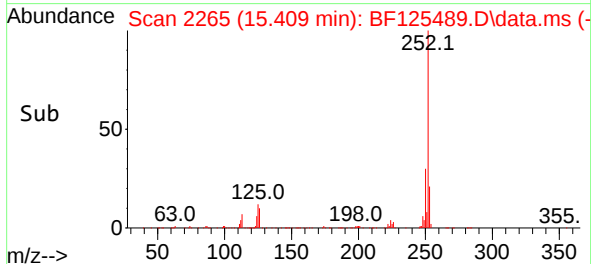
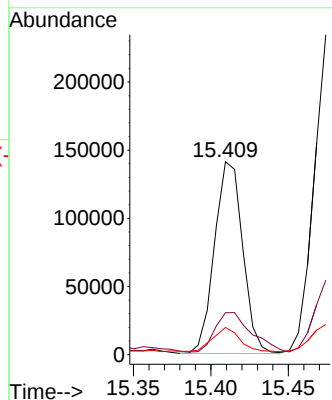
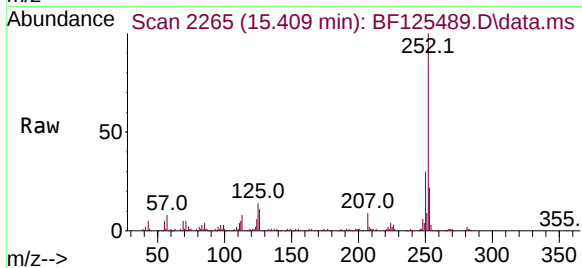




#90  
Benzo(a)pyrene  
Concen: 9.207 ng  
RT: 15.409 min Scan# 2265  
Delta R.T. -0.077 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Instrument :  
BNA\_F  
ClientSampleId :  
WQ-SOILPILE

Tgt Ion:252 Resp: 178242  
Ion Ratio Lower Upper  
252 100  
253 21.7 18.4 27.6  
125 14.1 9.9 14.9



#91  
Dibenzo(a,h)anthracene  
Concen: 2.427 ng  
RT: 17.045 min Scan# 2543  
Delta R.T. -0.030 min  
Lab File: BF125489.D  
Acq: 14 Sep 2021 23:21

Tgt Ion:278 Resp: 45346  
Ion Ratio Lower Upper  
278 100  
139 16.5 14.9 22.3  
279 25.3 19.7 29.5

