

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032521\  
 Data File : BF123470.D  
 Acq On : 25 Mar 2021 19:51  
 Operator : JU/CG  
 Sample : M1771-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-SOIL-323

Quant Time: Mar 26 00:39:16 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF032321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 25 17:06:59 2021  
 Response via : Initial Calibration

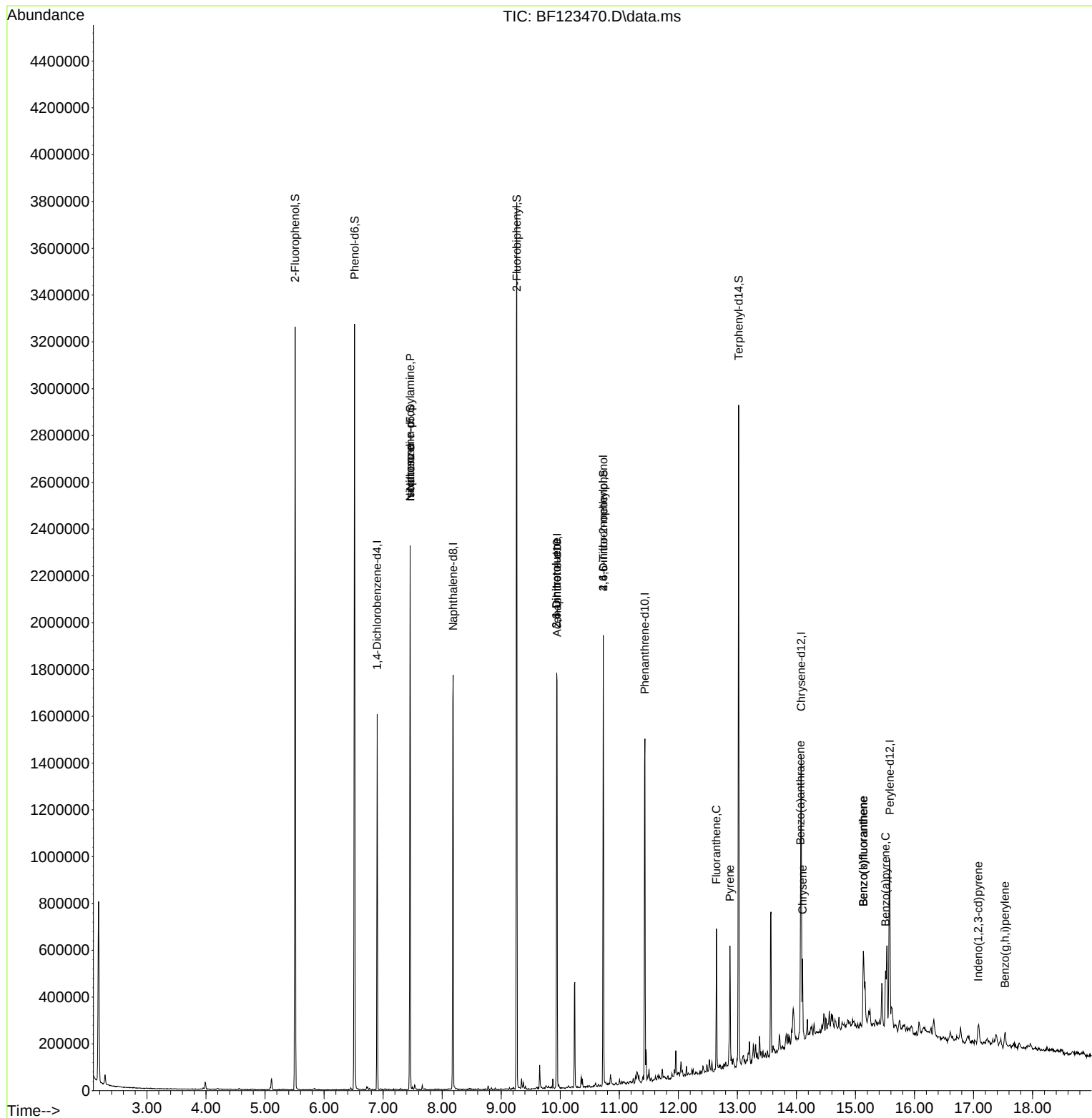
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.898  | 152  | 205136   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.186  | 136  | 733738   | 20.00     | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.945  | 164  | 369495   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.433 | 188  | 531848   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12              | 14.080 | 240  | 379090   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12              | 15.580 | 264  | 355191   | 20.00     | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.510  | 112  | 752420   | 60.01     | ng    | 0.00     |
| 7) Phenol-d6                  | 6.516  | 99   | 938943   | 56.25     | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.457  | 82   | 602826   | 44.34     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.727 | 330  | 198765   | 48.12     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.263  | 172  | 1108864  | 42.87     | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.021 | 244  | 828829   | 37.05     | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.445  | 77   | 260      | Below Cal | #     | 49       |
| 19) n-Nitroso-di-n-propyla... | 7.457  | 70   | 79629    | 7.38      | ng    | # 80     |
| 25) Isophorone                | 7.457  | 82   | 600782   | 20.55     | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 9.939  | 165  | 49201    | 8.97      | ng    | # 31     |
| 57) 2,4-Dinitrotoluene        | 9.939  | 165  | 49201    | 7.19      | ng    | # 25     |
| 65) 4,6-Dinitro-2-methylph... | 10.727 | 198  | 384      | 5.24      | ng    | # 1      |
| 75) Fluoranthene              | 12.645 | 202  | 212757   | 6.68      | ng    | 97       |
| 78) Pyrene                    | 12.874 | 202  | 202828   | 6.20      | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.068 | 228  | 123409   | 4.97      | ng    | 97       |
| 83) Chrysene                  | 14.104 | 228  | 121722   | 4.75      | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.080 | 276  | 63613    | 2.88      | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.133 | 252  | 243360   | 9.93      | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 243360   | 10.51     | ng    | # 95     |
| 90) Benzo(a)pyrene            | 15.509 | 252  | 116289   | 5.50      | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.533 | 276  | 60688    | 3.24      | ng    | 97       |
| -----                         |        |      |          |           |       |          |

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

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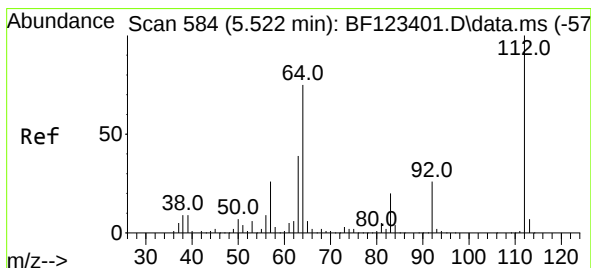
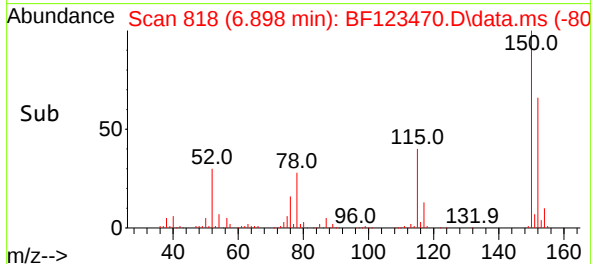
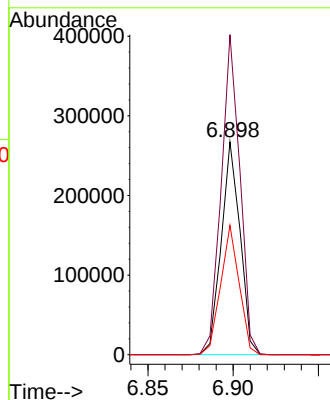
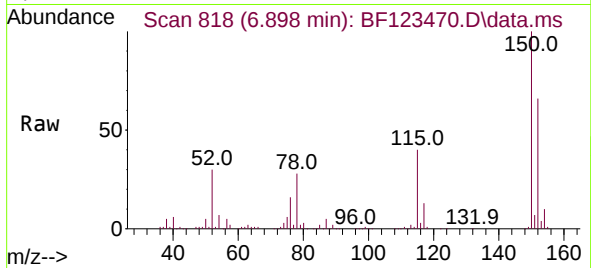




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.898 min Scan# 818  
Delta R.T. 0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

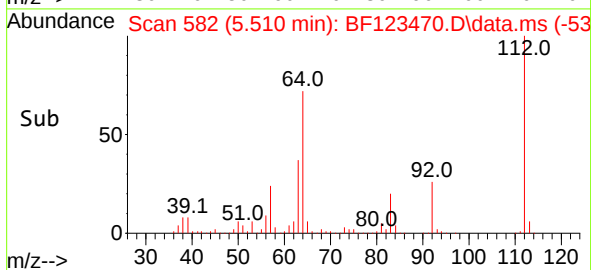
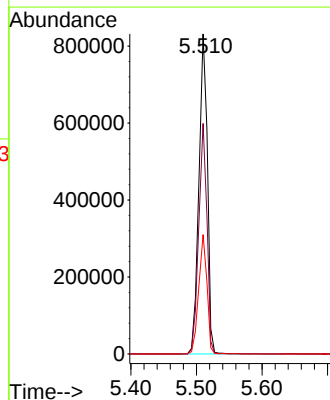
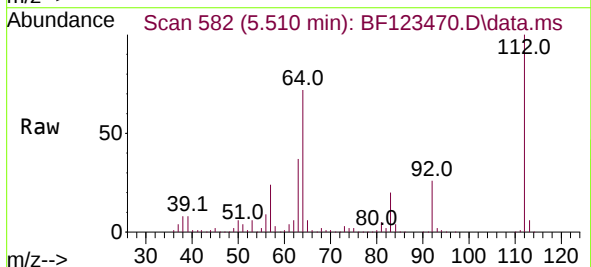
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ClientSampleId :  
COMP-SOIL-323

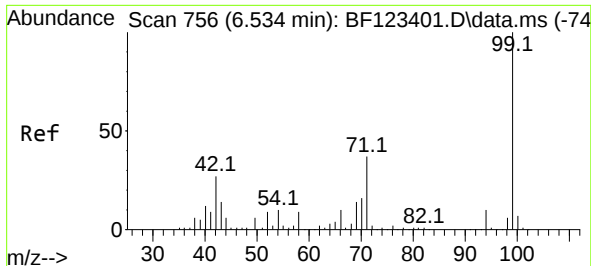
Tgt Ion:152 Resp: 205136  
Ion Ratio Lower Upper  
152 100  
150 150.4 125.8 188.6  
115 60.8 49.3 73.9



#5  
2-Fluorophenol  
Concen: 60.01 ng  
RT: 5.510 min Scan# 582  
Delta R.T. -0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion:112 Resp: 752420  
Ion Ratio Lower Upper  
112 100  
64 72.0 46.9 70.3#  
63 37.3 24.5 36.7#

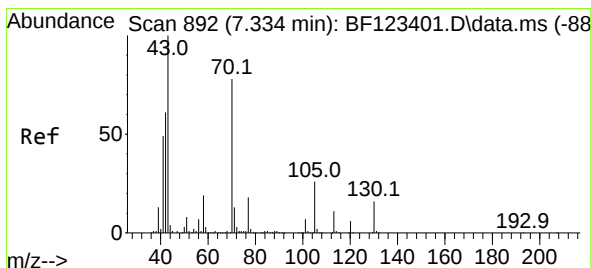
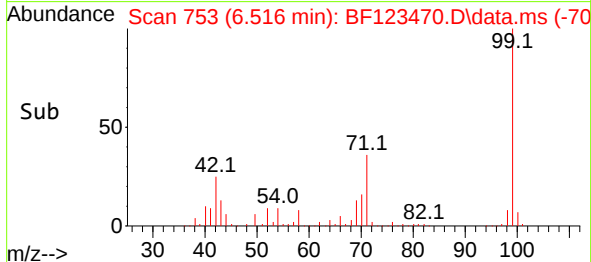
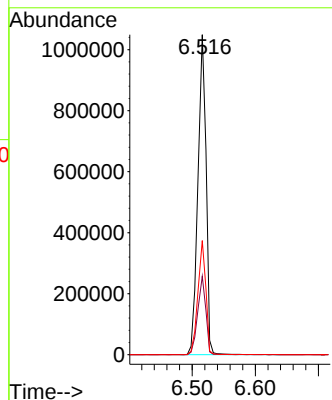
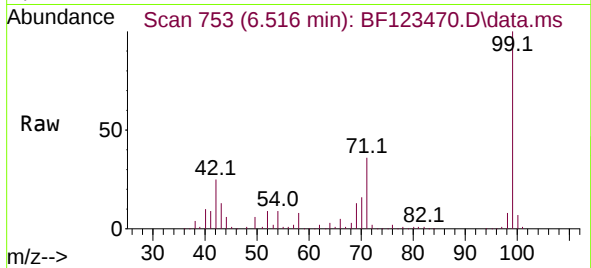




#7  
Phenol-d6  
Concen: 56.25 ng  
RT: 6.516 min Scan# 753  
Delta R.T. -0.012 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

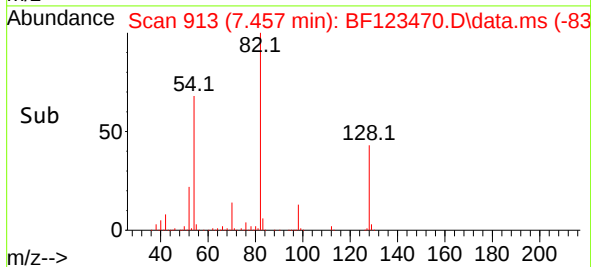
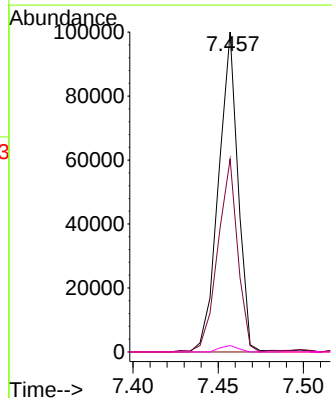
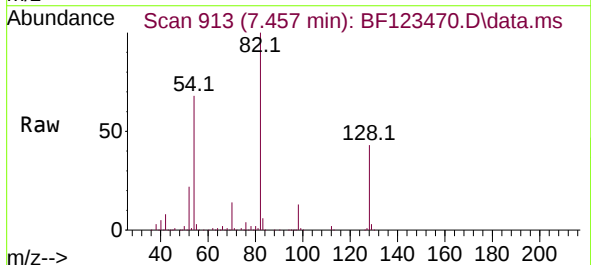
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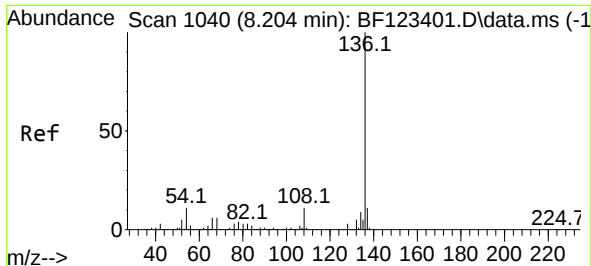
Tgt Ion: 99 Resp: 938943  
Ion Ratio Lower Upper  
99 100  
42 24.5 13.8 20.6#  
71 35.7 26.9 40.3



#19  
n-Nitroso-di-n-propylamine  
Concen: 7.38 ng  
RT: 7.457 min Scan# 913  
Delta R.T. 0.141 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion: 70 Resp: 79629  
Ion Ratio Lower Upper  
70 100  
42 60.3 43.0 64.4  
101 0.0 7.9 11.9#  
130 2.0 18.5 27.7#

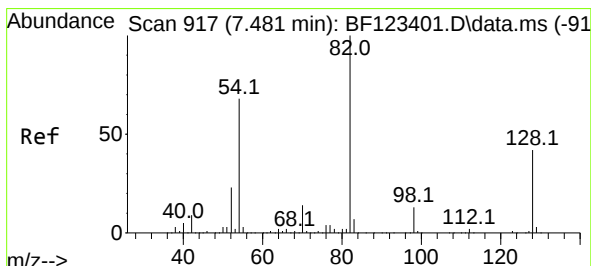
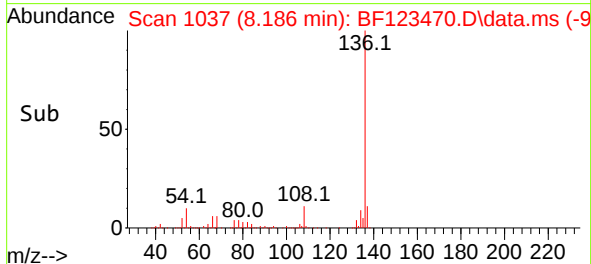
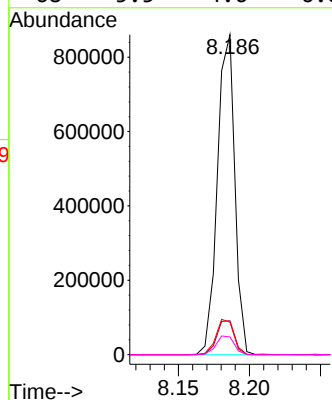
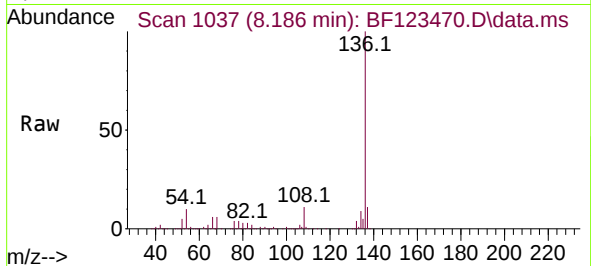




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.186 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

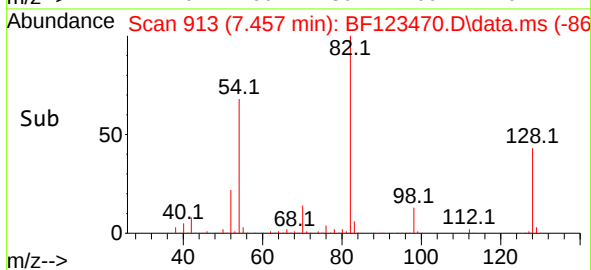
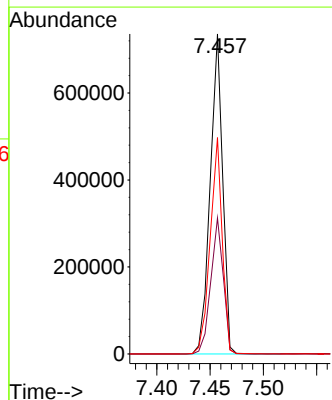
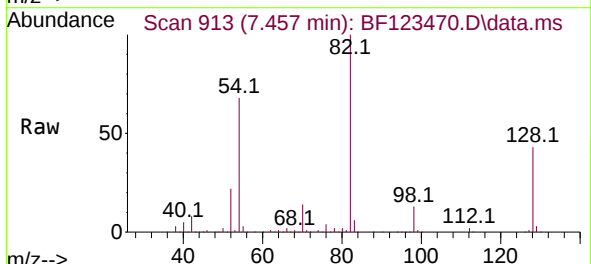
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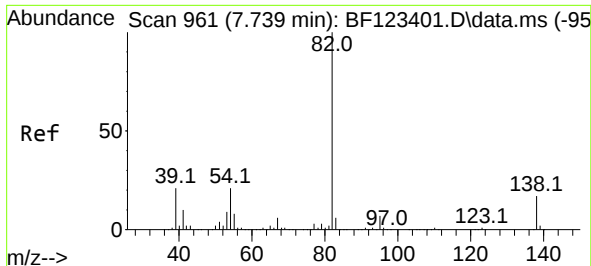
|             |              |
|-------------|--------------|
| Tgt Ion:136 | Resp: 733738 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.6    | 8.8 13.2     |
| 54 10.1     | 5.5 8.3#     |
| 68 5.5      | 4.6 6.8      |



#23  
Nitrobenzene-d5  
Concen: 44.34 ng  
RT: 7.457 min Scan# 913  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 602826 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 42.5    | 37.0 55.4    |
| 54 67.6     | 38.4 57.6#   |

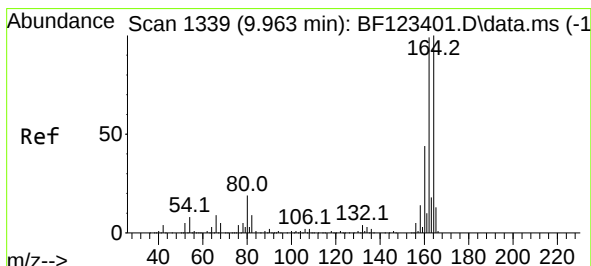
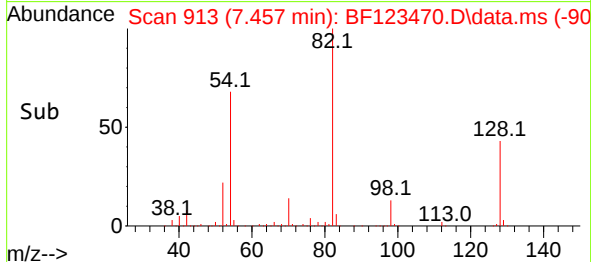
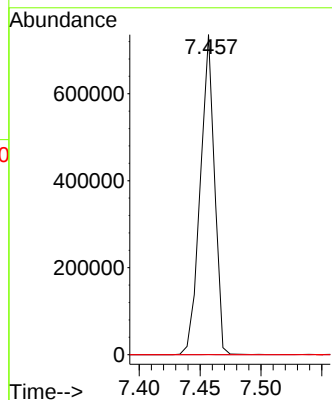
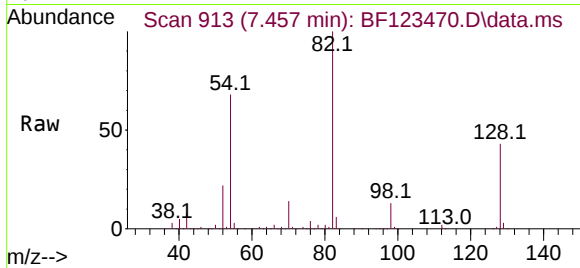




#25  
Isophorone  
Concen: 20.55 ng  
RT: 7.457 min Scan# 913  
Delta R.T. -0.265 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

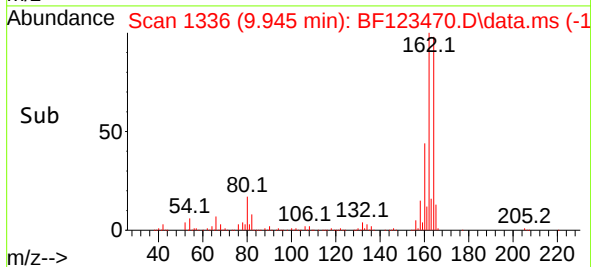
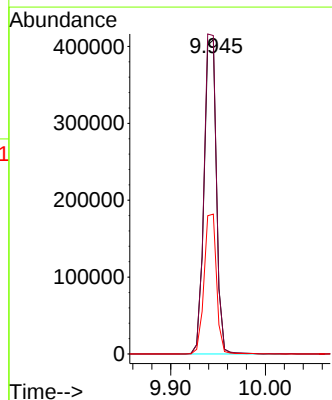
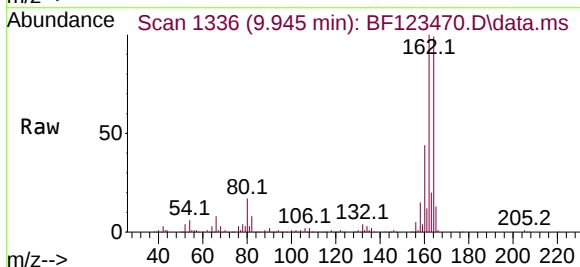
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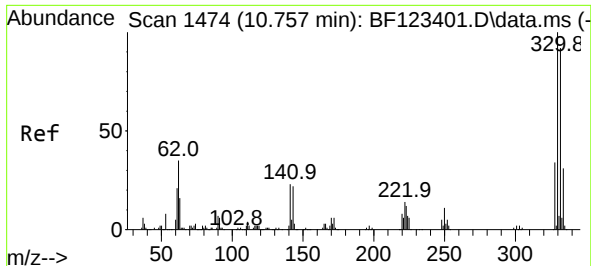
Tgt Ion: 82 Resp: 600782  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.8 8.6#  
138 0.0 14.6 21.8#



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.945 min Scan# 1336  
Delta R.T. -0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion: 164 Resp: 369495  
Ion Ratio Lower Upper  
164 100  
162 101.3 80.8 121.2  
160 44.5 35.4 53.0

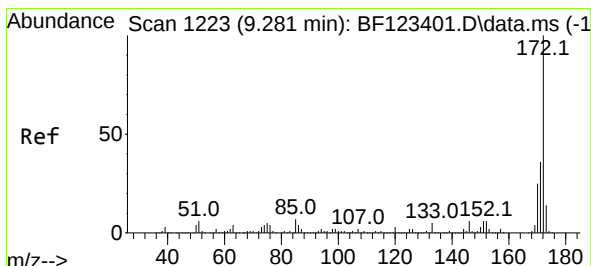
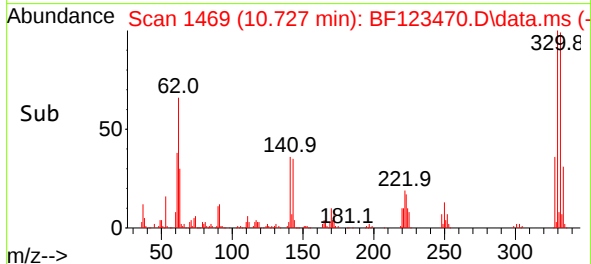
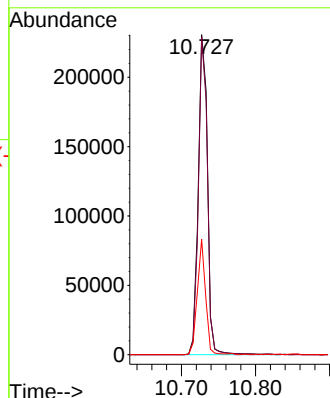
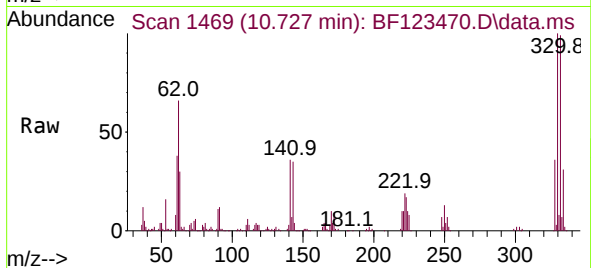




#42  
2,4,6-Tribromophenol  
Concen: 48.12 ng  
RT: 10.727 min Scan# 1469  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

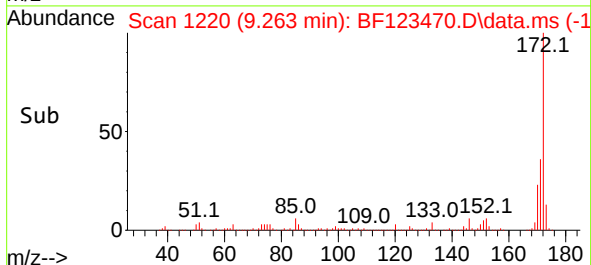
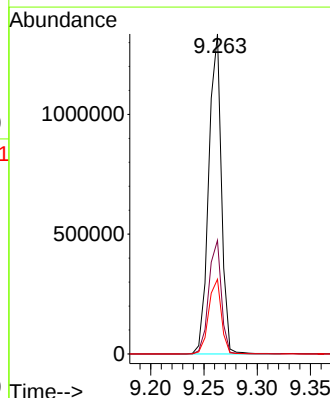
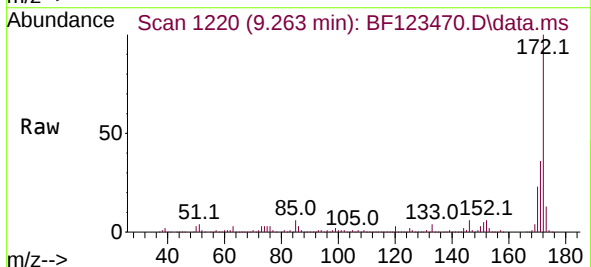
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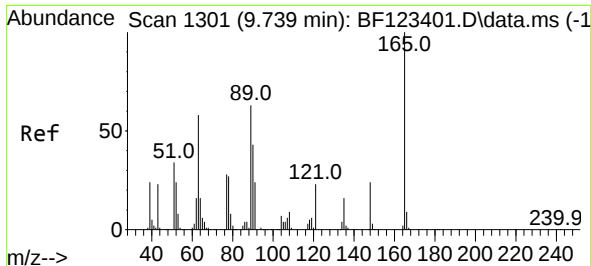
Tgt Ion: 330 Resp: 198765  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.5 116.3  
141 32.5 23.8 35.8



#45  
2-Fluorobiphenyl  
Concen: 42.87 ng  
RT: 9.263 min Scan# 1220  
Delta R.T. -0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion: 172 Resp: 1108864  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.6 44.4  
170 23.4 19.5 29.3

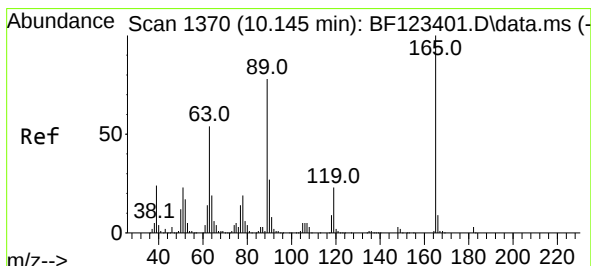
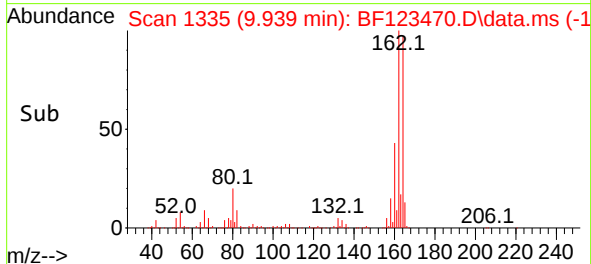
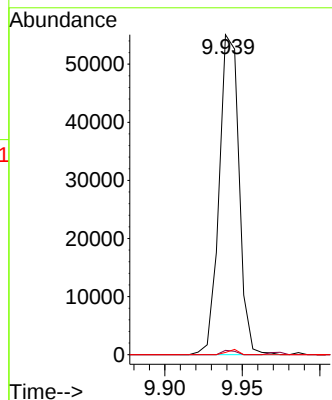
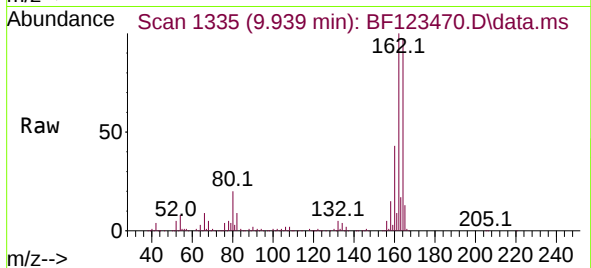




#51  
2,6-Dinitrotoluene  
Concen: 8.97 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. 0.217 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

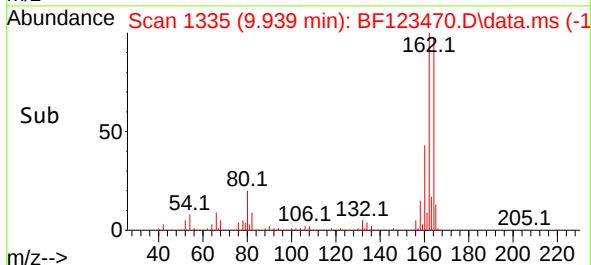
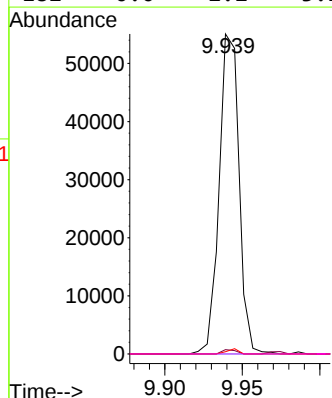
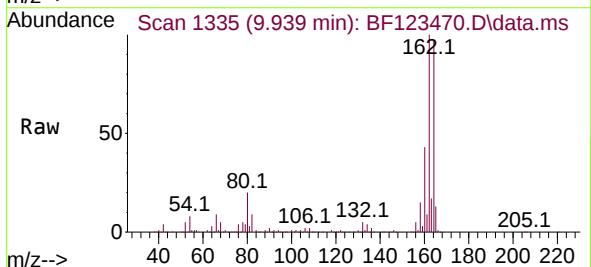
Instrument :  
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COMP-SOIL-323

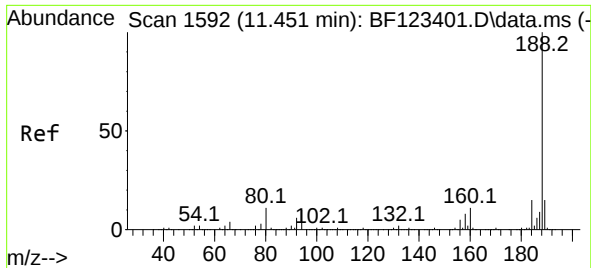
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Ion Ratio Lower Upper  
165 100  
63 1.4 36.6 55.0#  
89 0.7 39.4 59.0#



#57  
2,4-Dinitrotoluene  
Concen: 7.19 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. -0.188 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion:165 Resp: 49201  
Ion Ratio Lower Upper  
165 100  
63 1.4 34.3 51.5#  
89 0.7 55.2 82.8#  
182 0.0 2.2 3.2#

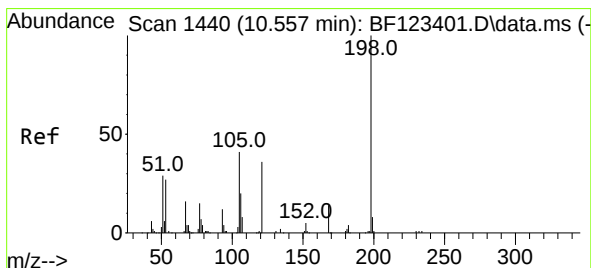
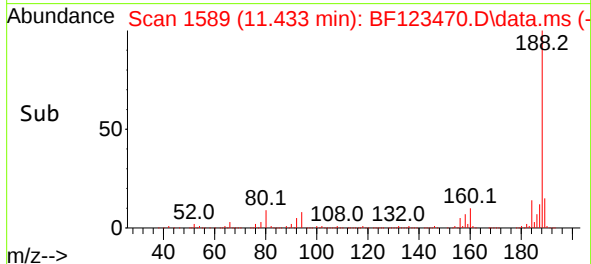
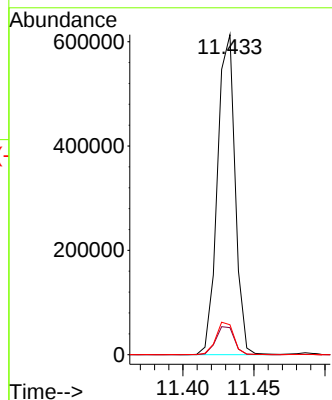
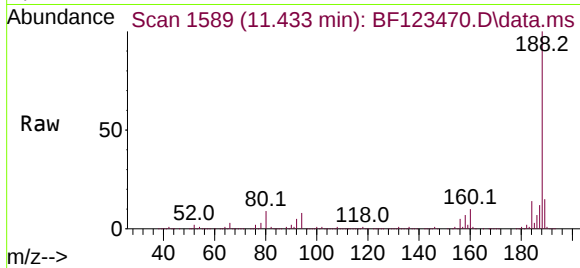




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.433 min Scan# 1589  
Delta R.T. -0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

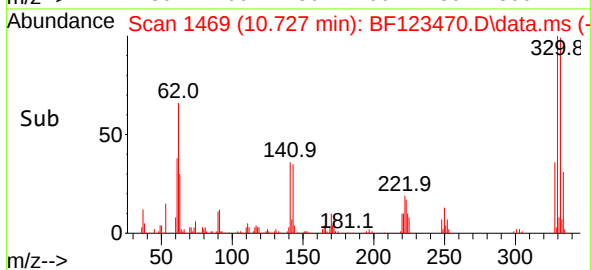
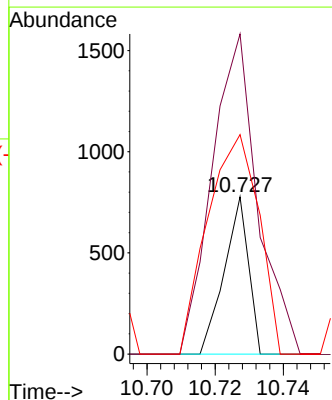
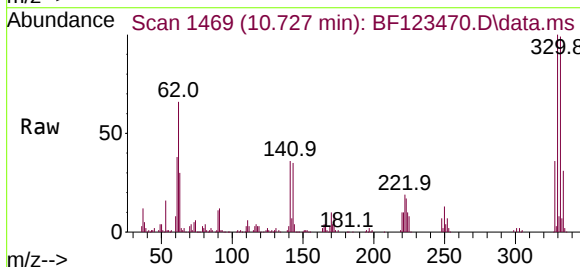
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-SOIL-323

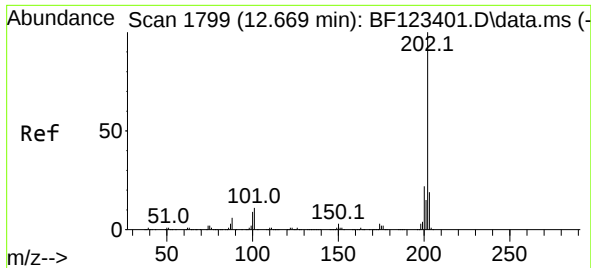
Tgt Ion:188 Resp: 531848  
Ion Ratio Lower Upper  
188 100  
94 8.4 7.4 11.2  
80 9.3 8.2 12.4



#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.24 ng  
RT: 10.727 min Scan# 1469  
Delta R.T. 0.194 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion:198 Resp: 384  
Ion Ratio Lower Upper  
198 100  
51 203.6 20.3 60.3#  
105 139.6 23.0 63.0#

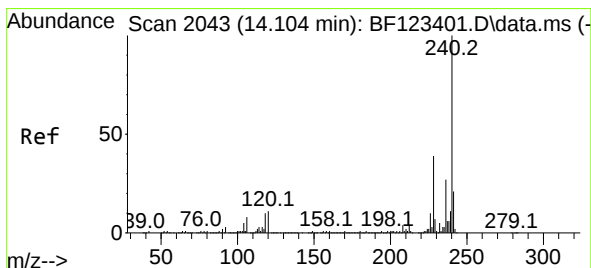
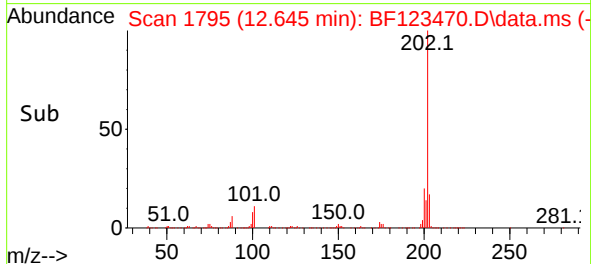
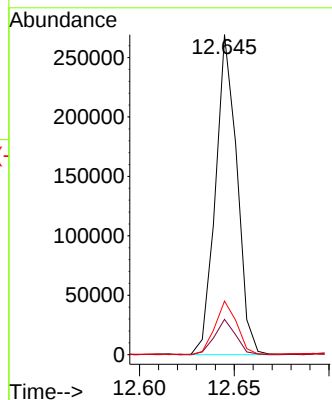
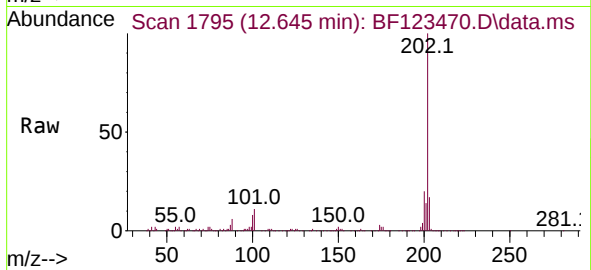




#75  
Fluoranthene  
Concen: 6.68 ng  
RT: 12.645 min Scan# 1795  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

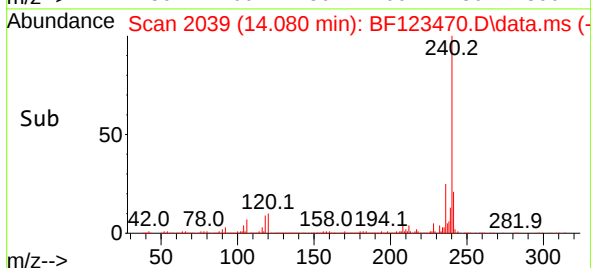
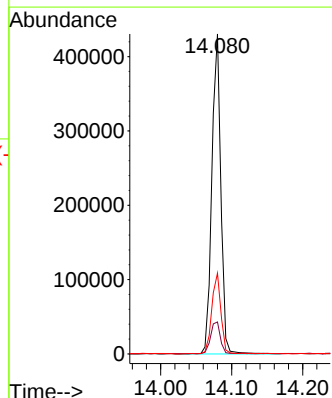
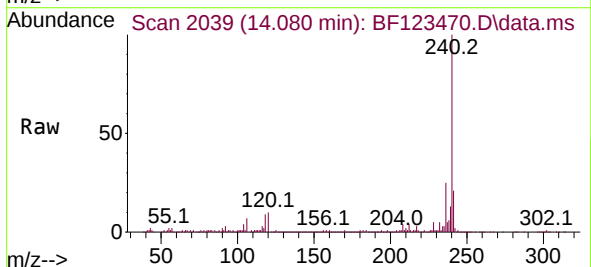
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-SOIL-323

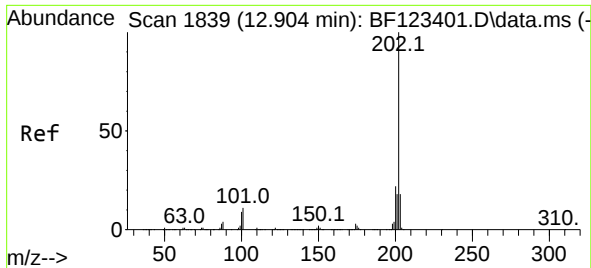
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 212757 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.0  | 0.0   | 32.2   |
| 203       | 16.7  | 0.0   | 38.1   |



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.080 min Scan# 2039  
Delta R.T. -0.000 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 379090 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.0  | 8.6   | 12.8   |
| 236       | 25.3  | 20.3  | 30.5   |

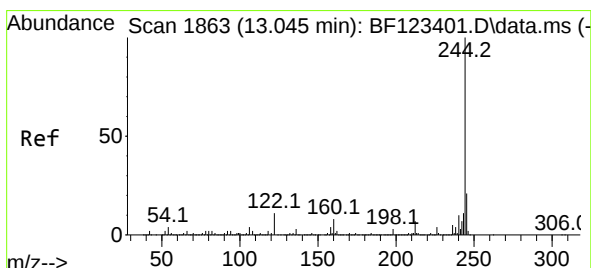
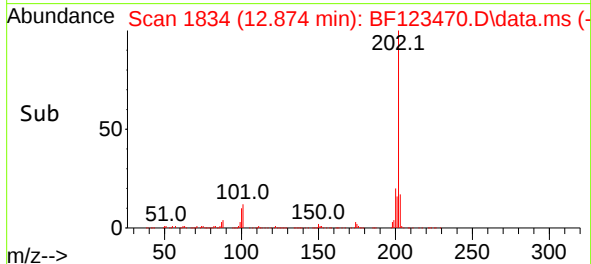
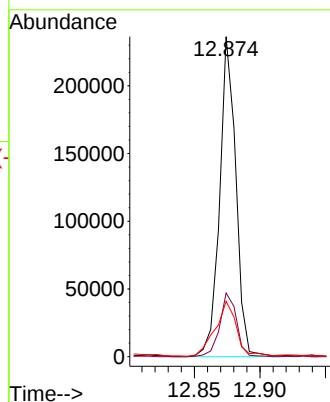
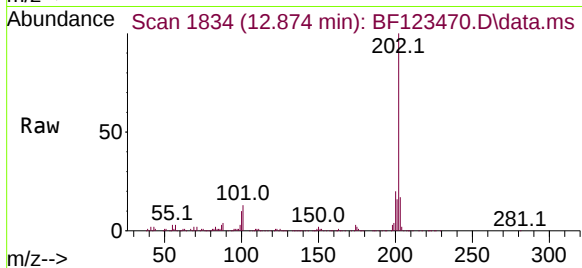




#78  
 Pyrene  
 Concen: 6.20 ng  
 RT: 12.874 min Scan# 1834  
 Delta R.T. -0.006 min  
 Lab File: BF123470.D  
 Acq: 25 Mar 2021 19:51

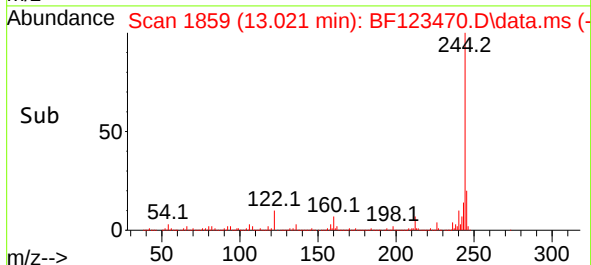
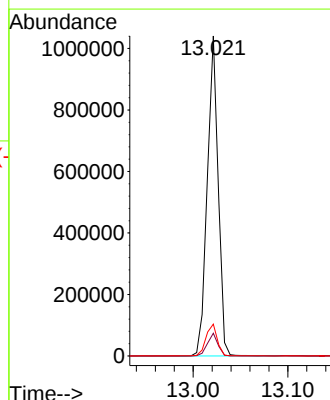
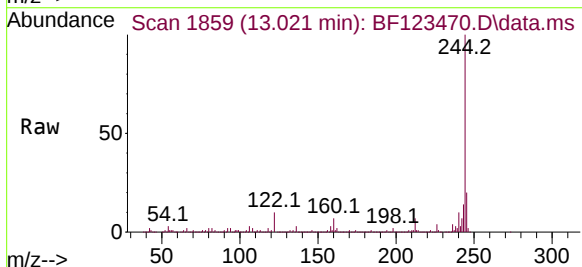
Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-SOIL-323

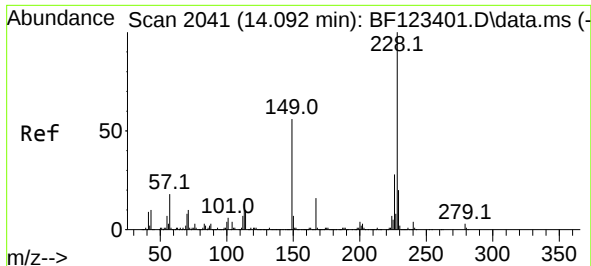
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 202828 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 19.9  | 17.6  | 26.4   |
| 203       | 17.3  | 14.6  | 21.8   |



#79  
 Terphenyl-d14  
 Concen: 37.05 ng  
 RT: 13.021 min Scan# 1859  
 Delta R.T. -0.000 min  
 Lab File: BF123470.D  
 Acq: 25 Mar 2021 19:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 828829 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.1   | 5.7   | 8.5    |
| 122       | 10.0  | 8.3   | 12.5   |

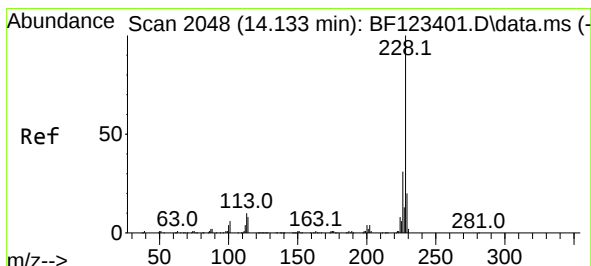
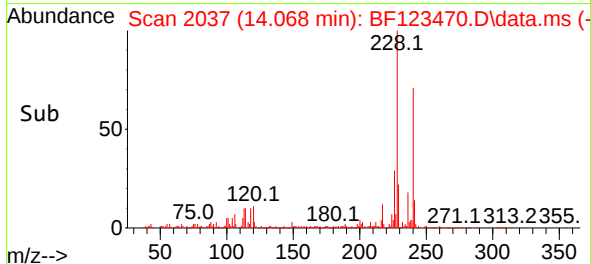
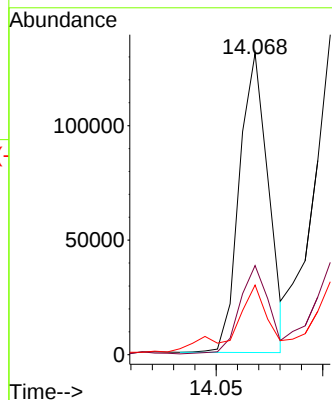
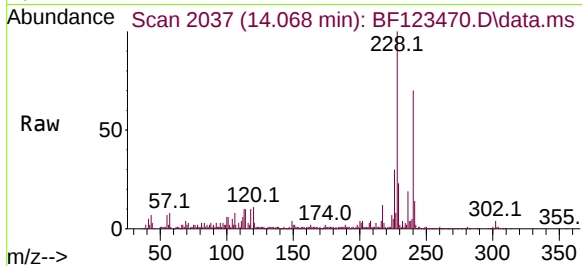




#81  
Benzo(a)anthracene  
Concen: 4.97 ng  
RT: 14.068 min Scan# 2037  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

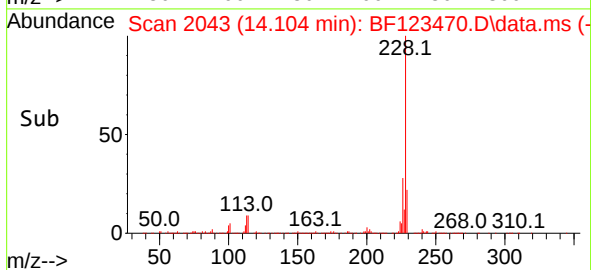
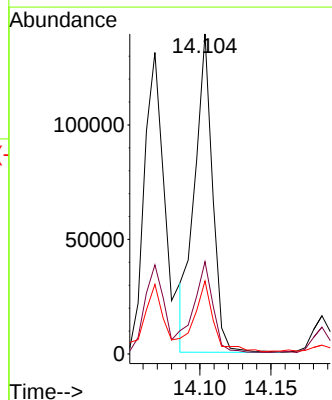
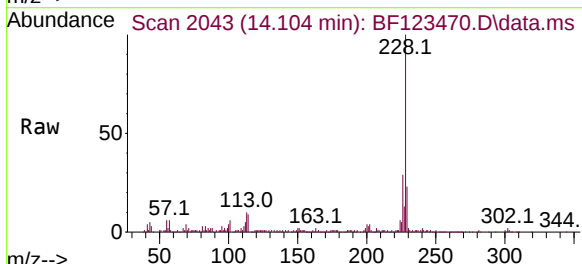
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-SOIL-323

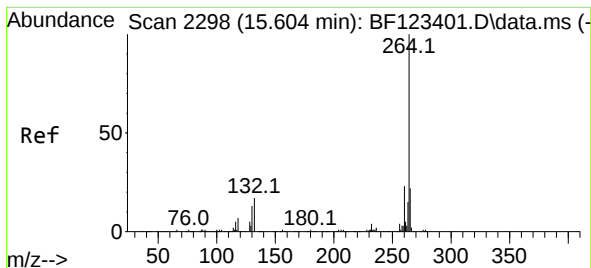
Tgt Ion:228 Resp: 123409  
Ion Ratio Lower Upper  
228 100  
226 29.6 23.0 34.4  
229 23.1 16.6 24.8



#83  
Chrysene  
Concen: 4.75 ng  
RT: 14.104 min Scan# 2043  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion:228 Resp: 121722  
Ion Ratio Lower Upper  
228 100  
226 28.8 24.6 36.8  
229 22.8 15.8 23.6





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.580 min Scan# 2294

Delta R.T. 0.006 min

Lab File: BF123470.D

Acq: 25 Mar 2021 19:51

Tgt Ion:264 Resp: 355191

Ion Ratio Lower Upper

264 100

260 22.0 18.6 28.0

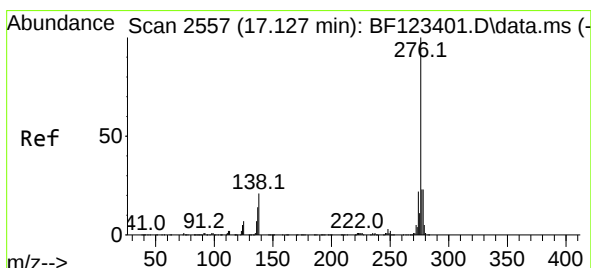
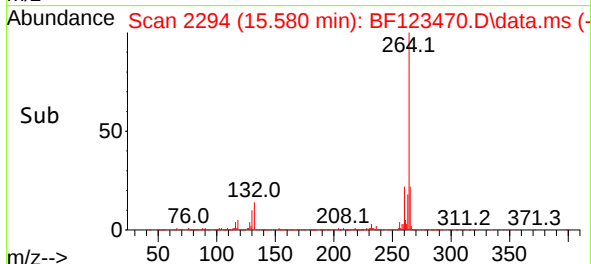
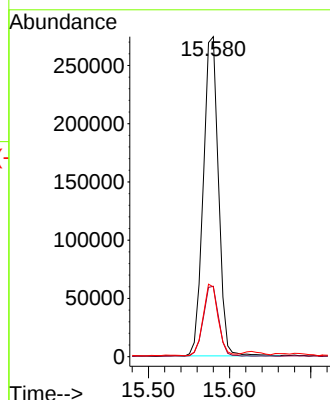
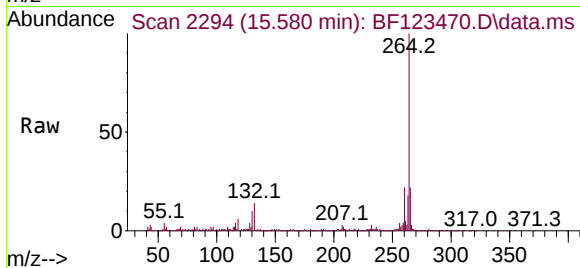
265 21.8 17.0 25.6

Instrument :

BNA\_F

ClientSampleId :

COMP-SOIL-323



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.88 ng

RT: 17.080 min Scan# 2549

Delta R.T. -0.006 min

Lab File: BF123470.D

Acq: 25 Mar 2021 19:51

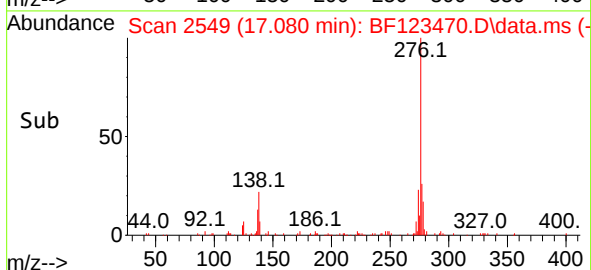
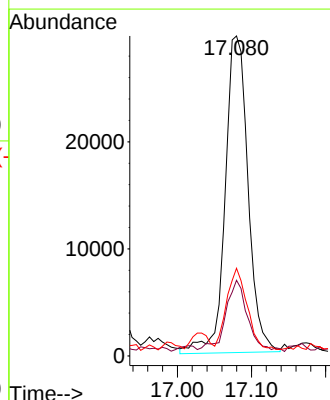
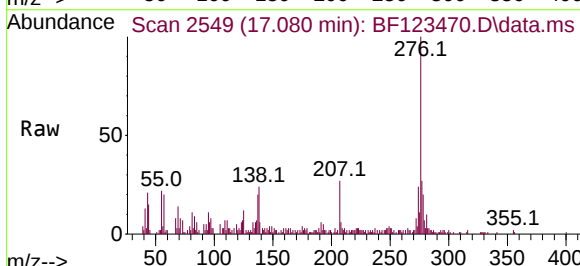
Tgt Ion:276 Resp: 63613

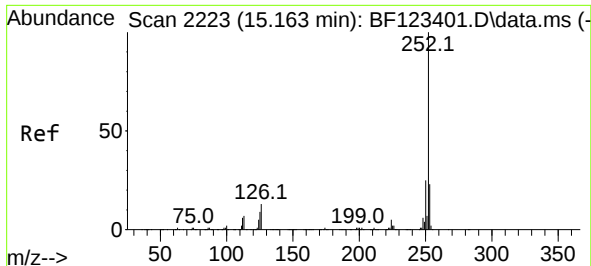
Ion Ratio Lower Upper

276 100

138 21.8 18.7 28.1

277 23.6 20.2 30.4

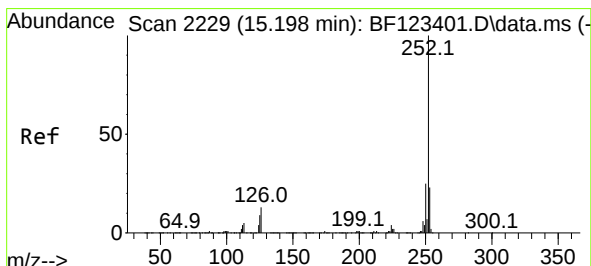
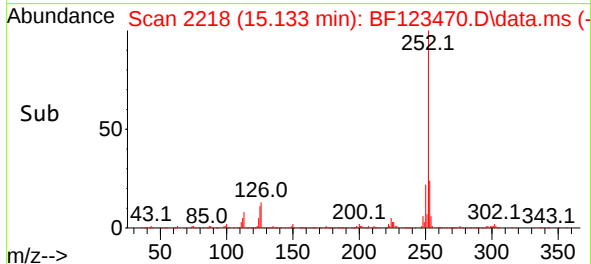
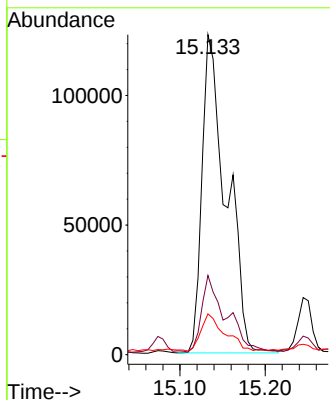
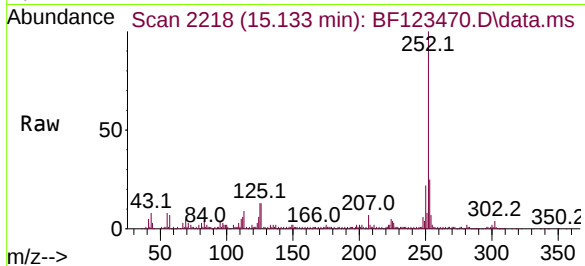




#88  
Benzo(b)fluoranthene  
Concen: 9.93 ng  
RT: 15.133 min Scan# 2218  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

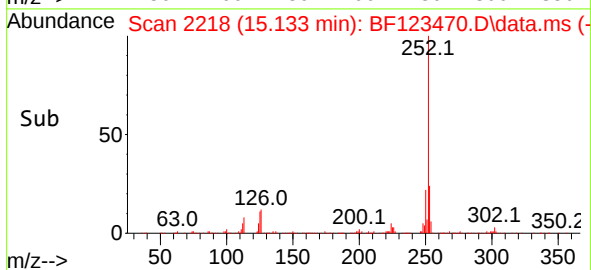
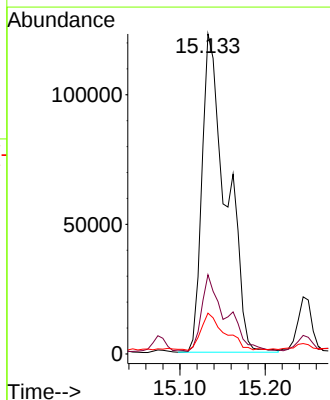
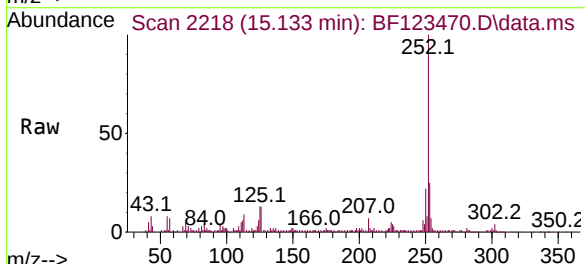
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-SOIL-323

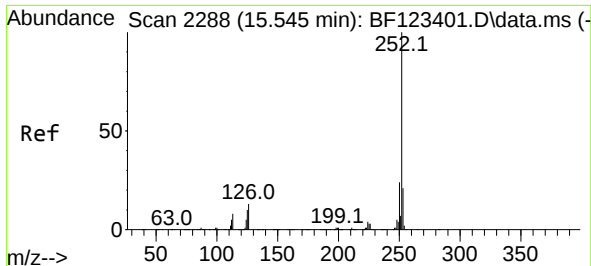
Tgt Ion:252 Resp: 243360  
Ion Ratio Lower Upper  
252 100  
253 24.8 18.3 27.5  
125 12.7 8.1 12.1#



#89  
Benzo(k)fluoranthene  
Concen: 10.51 ng  
RT: 15.133 min Scan# 2218  
Delta R.T. -0.036 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion:252 Resp: 243360  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.8 26.8  
125 12.7 8.4 12.6#

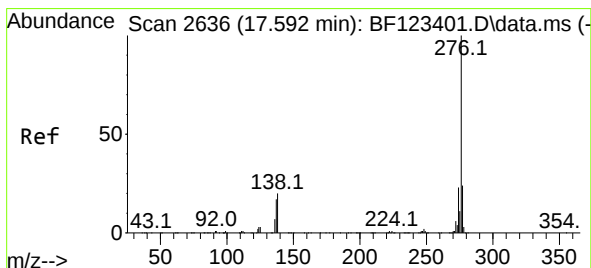
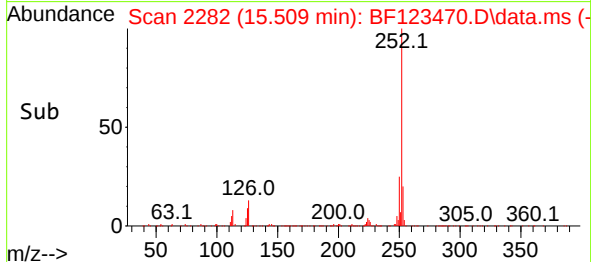
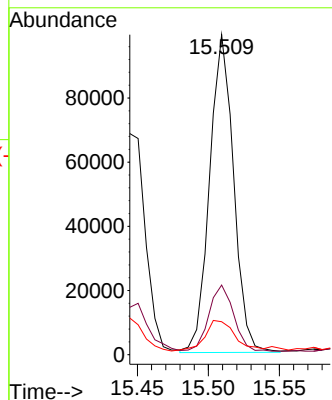
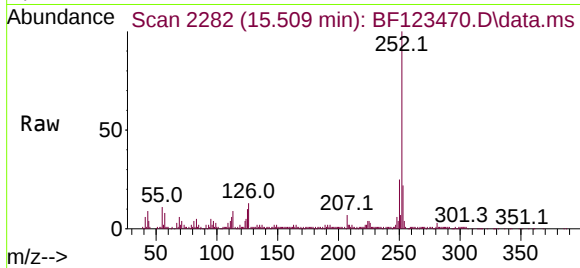




#90  
Benzo(a)pyrene  
Concen: 5.50 ng  
RT: 15.509 min Scan# 2282  
Delta R.T. -0.006 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-SOIL-323

Tgt Ion:252 Resp: 116289  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.5 26.3  
125 10.3 8.6 12.8



#92  
Benzo(g,h,i)perylene  
Concen: 3.24 ng  
RT: 17.533 min Scan# 2626  
Delta R.T. -0.012 min  
Lab File: BF123470.D  
Acq: 25 Mar 2021 19:51

Tgt Ion:276 Resp: 60688  
Ion Ratio Lower Upper  
276 100  
277 24.0 19.3 28.9  
138 17.8 16.6 24.8

