

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\  
 Data File : BF118886.D  
 Acq On : 11 Feb 2020 16:13  
 Operator : CG/JU  
 Sample : L1478-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-02

Quant Time: Feb 12 06:49:11 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 03 16:26:03 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 288122   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.09  | 136  | 1102912  | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 9.84  | 164  | 615252   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.32 | 188  | 1183729  | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 13.96 | 240  | 1051656  | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.41 | 264  | 917187   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.43  | 112  | 1589043  | 104.40 | ng    | 0.00     |
| 7) Phenol-d6                | 6.45  | 99   | 1959422  | 103.70 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 1279596  | 69.15  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 703752   | 95.60  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 2312014  | 67.18  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.91 | 244  | 3081345  | 60.18  | ng    | -0.02    |

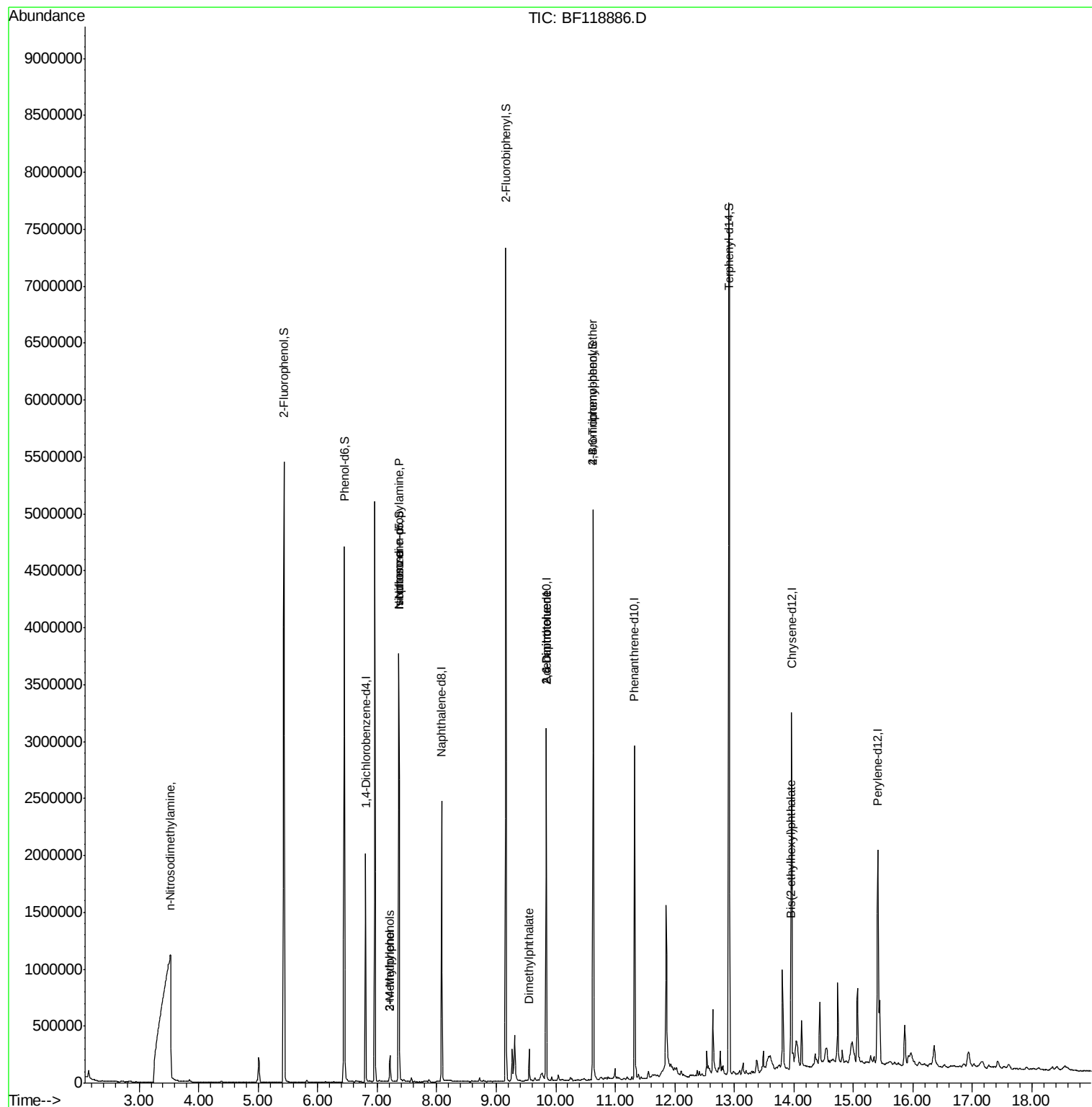
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 4) n-Nitrosodimethylamine      | 3.52  | 42   | 260489   | 37.144    | ng    | # 1    |
| 9) Benzaldehyde                | 6.35  | 77   | 260      | Below Cal |       | 93     |
| 17) 2-Methylphenol             | 7.22  | 107  | 68354    | 4.849     | ng    | # 70   |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 176586   | 15.275    | ng    | # 76   |
| 20) 3+4-Methylphenols          | 7.22  | 107  | 68354    | 3.869     | ng    | # 62   |
| 25) Isophorone                 | 7.36  | 82   | 1277075  | 38.402    | ng    | # 63   |
| 50) Dimethylphthalate          | 9.56  | 163  | 123778   | 2.955     | ng    | 96     |
| 51) 2,6-Dinitrotoluene         | 9.84  | 165  | 80766    | 8.426     | ng    | # 31   |
| 57) 2,4-Dinitrotoluene         | 9.84  | 165  | 80766    | 6.367     | ng    | # 34   |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 46025    | 3.287     | ng    | # 1    |
| 84) Bis(2-ethylhexyl)phthalate | 13.94 | 149  | 137811   | 3.299     | ng    | 96     |

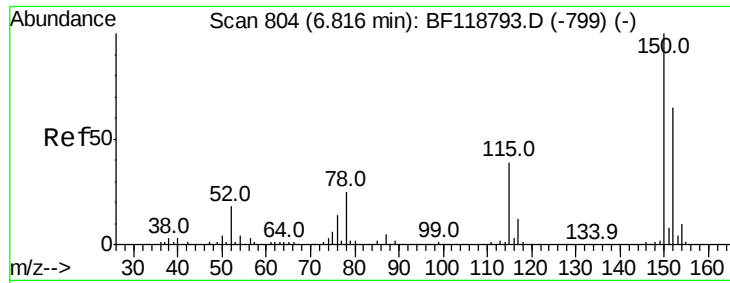
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
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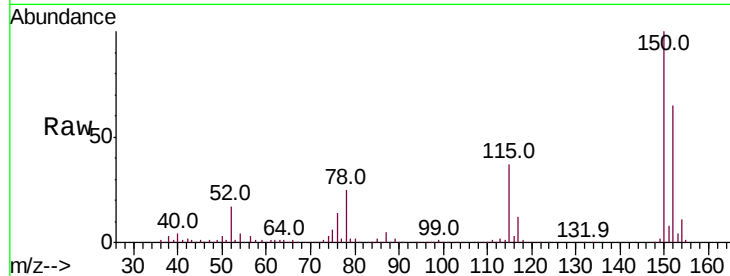


#1

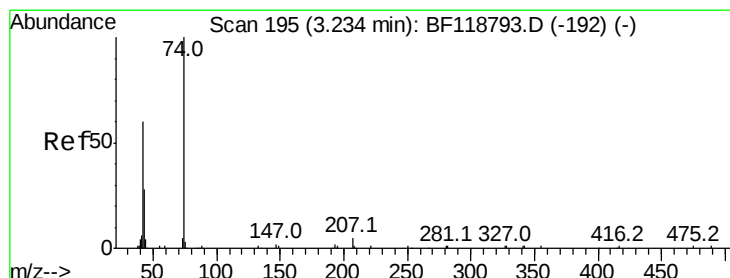
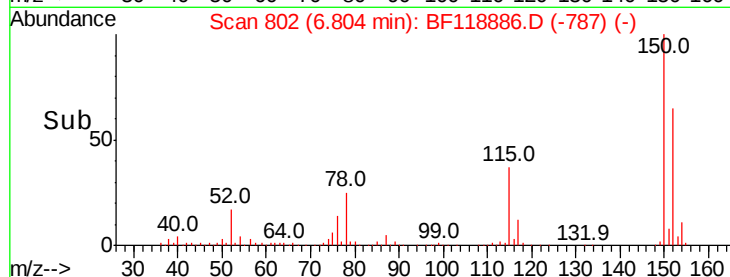
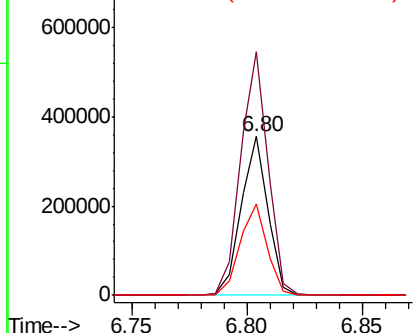
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF118886.D  
Acq: 11 Feb 2020 16:13

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-02

Tot Ion:152 Resp: 288122  
Ion Ratio Lower Upper  
152 100  
150 153.4 123.6 185.4  
115 57.2 48.2 72.2



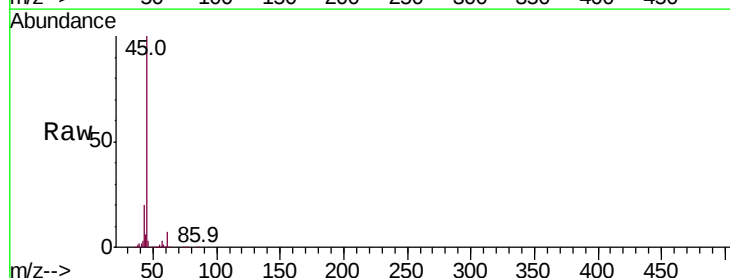
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



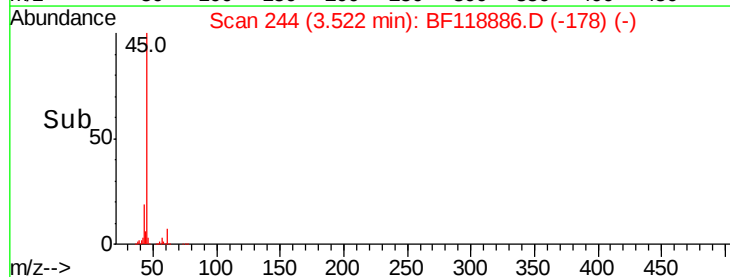
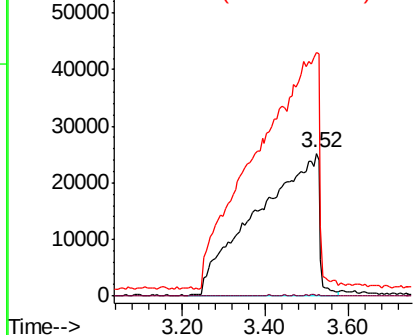
#4

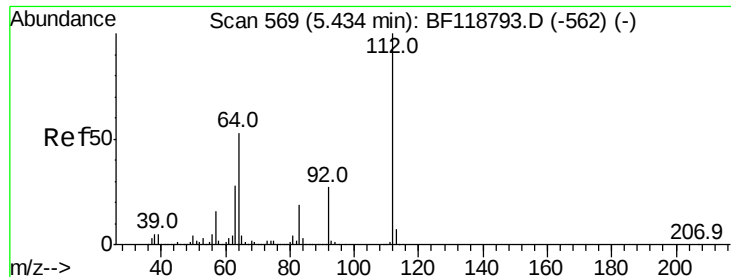
n-Nitrosodimethylamine  
Concen: 37.144 ng  
RT: 3.52 min Scan# 244  
Delta R.T. 0.29 min  
Lab File: BF118886.D  
Acq: 11 Feb 2020 16:13

Tgt Ion: 42 Resp: 260489  
Ion Ratio Lower Upper  
42 100  
74 0.0 124.3 186.5#  
44 170.8 5.3 7.9#



Abundance Ion 42.00 (41.70 to 42.70): BF1  
Ion 74.00 (73.70 to 74.70): BF1  
Ion 44.00 (43.70 to 44.70): BF1





#5

2-Fluorophenol

Concen: 104.398 ng

RT: 5.43 min Scan# 569

Delta R.T. -0.00 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-02

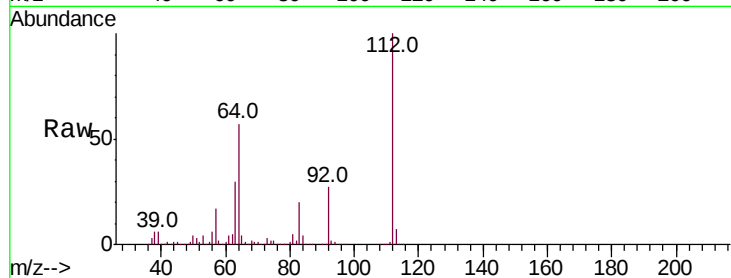
Tot Ion:112 Resp: 1589043

Ion Ratio Lower Upper

112 100

64 57.0 42.6 63.8

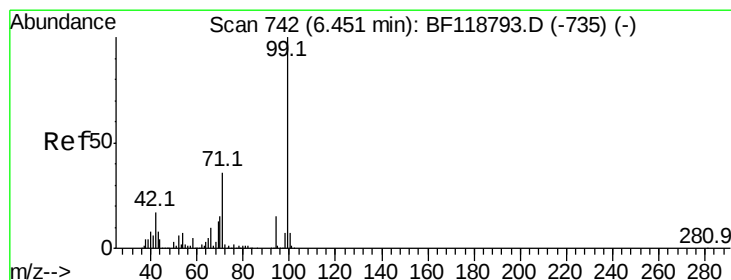
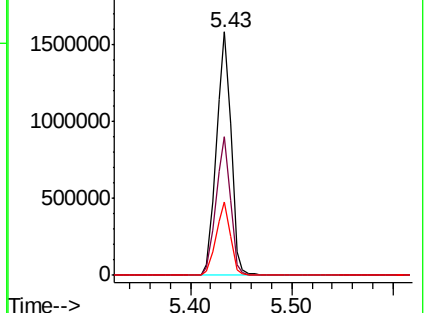
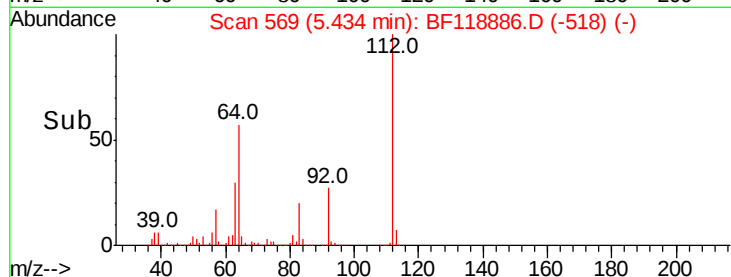
63 29.9 22.2 33.4



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 103.703 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

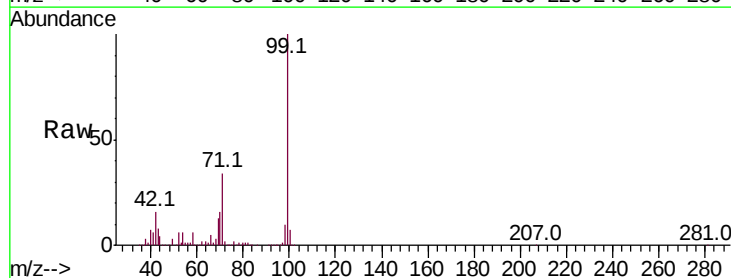
Tgt Ion: 99 Resp: 1959422

Ion Ratio Lower Upper

99 100

42 16.1 13.4 20.0

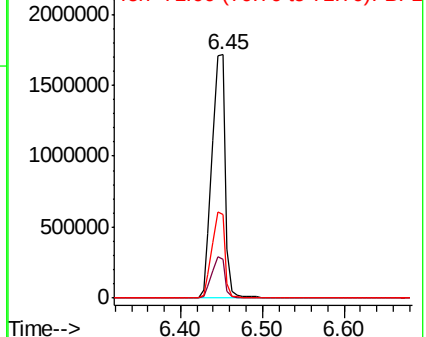
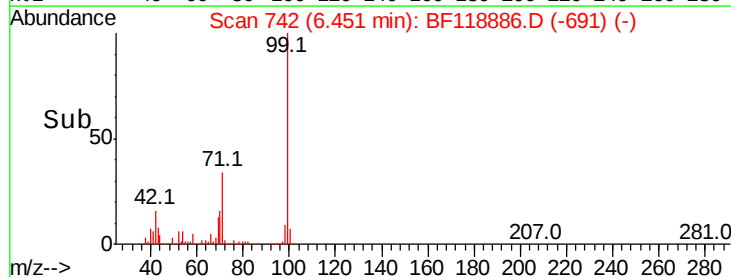
71 34.2 29.0 43.6

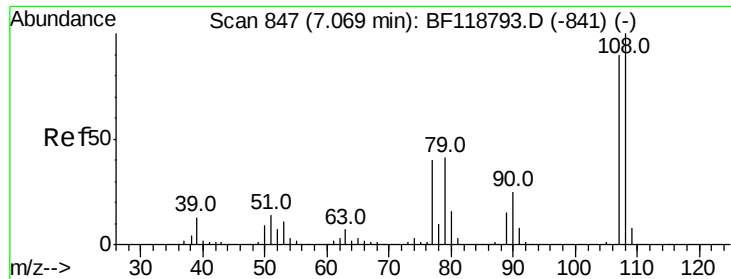


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1





#17

2-Methylphenol

Concen: 4.849 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.15 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Instrument :

BNA\_F

ClientSampled :

SOIL-02

Tot Ion:107 Resp: 68354

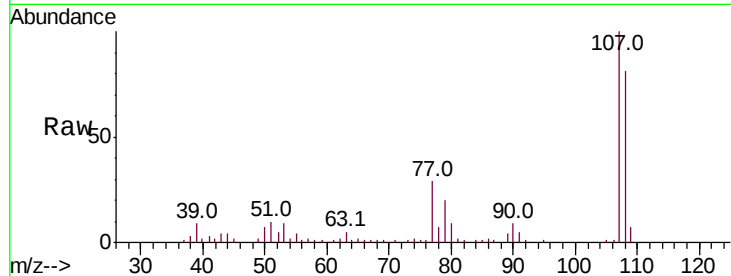
Ion Ratio Lower Upper

107 100

108 80.8 89.3 133.9#

77 29.3 36.2 54.2#

79 19.5 36.3 54.5#

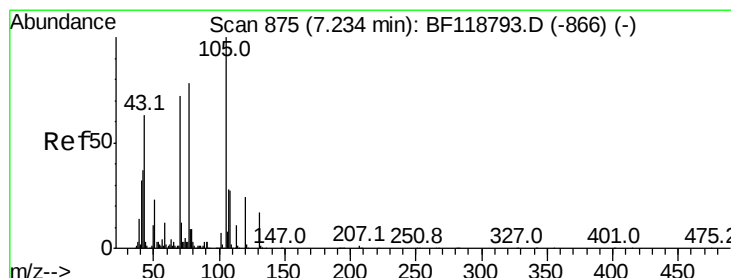
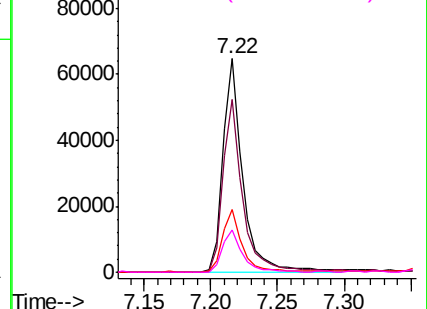
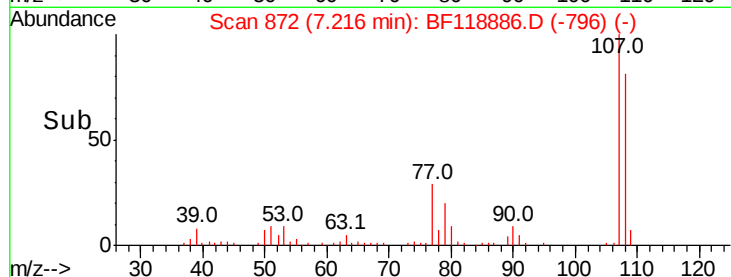


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 15.275 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.13 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Tgt Ion: 70 Resp: 176586

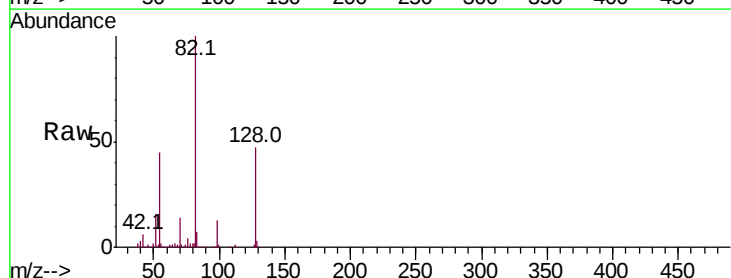
Ion Ratio Lower Upper

70 100

42 42.0 41.5 62.3

101 0.0 8.3 12.5#

130 2.4 19.2 28.8#

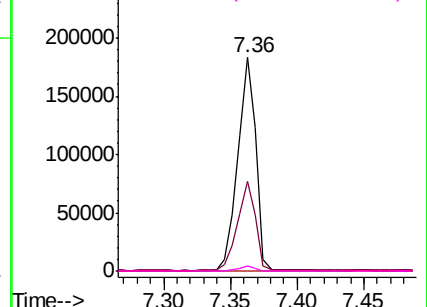
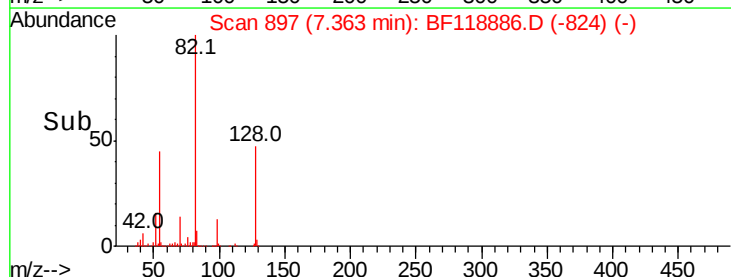


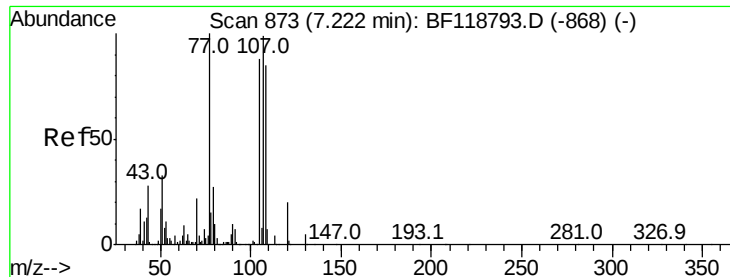
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 3.869 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.01 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-02

Tot Ion:107 Resp: 68354

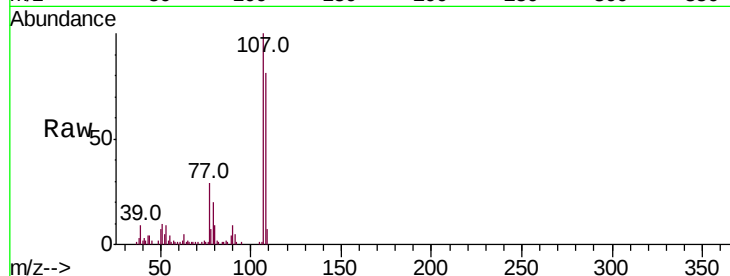
Ion Ratio Lower Upper

107 100

108 80.8 65.9 105.9

77 29.3 80.9 120.9#

79 19.5 7.5 47.5

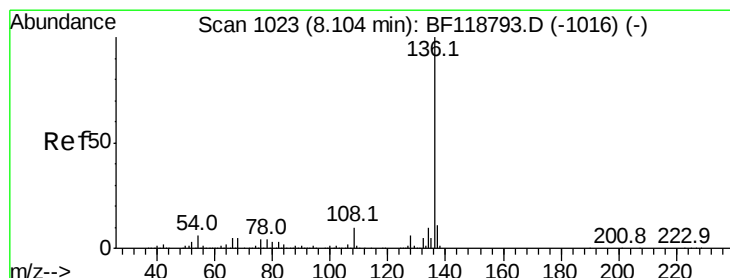
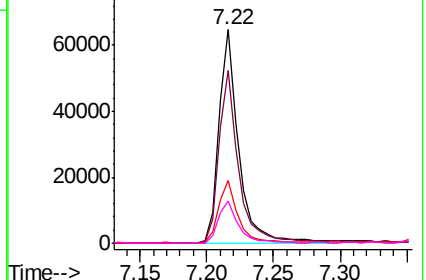
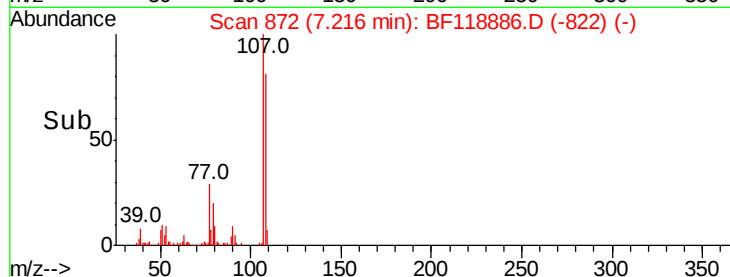


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.02 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Tgt Ion:136 Resp: 1102912

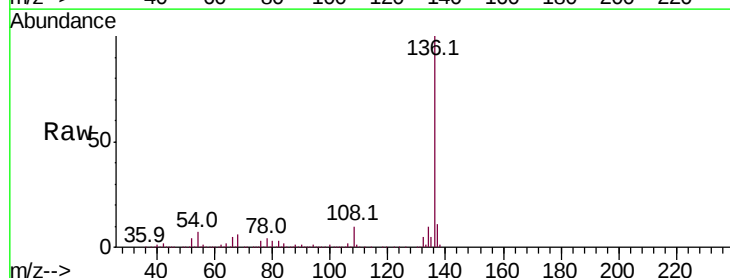
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 6.6 5.0 7.6

68 6.1 4.2 6.4

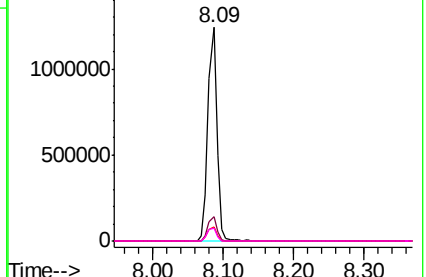
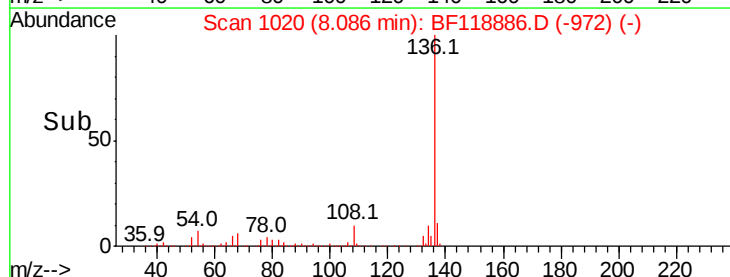


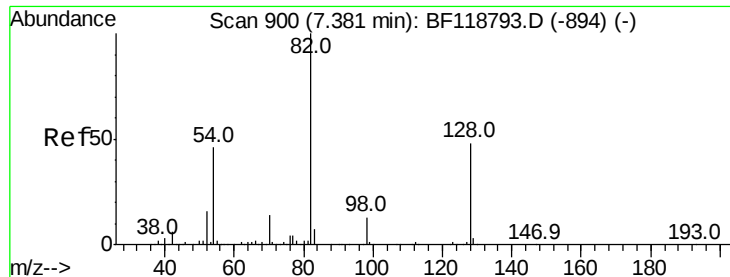
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

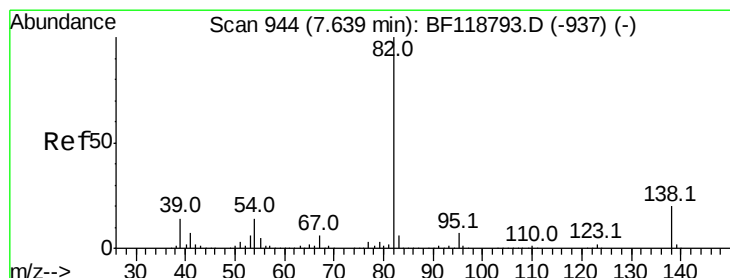
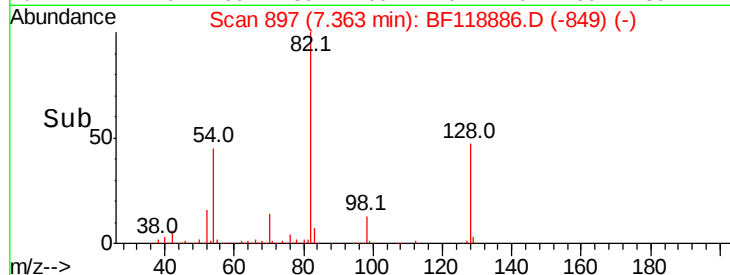
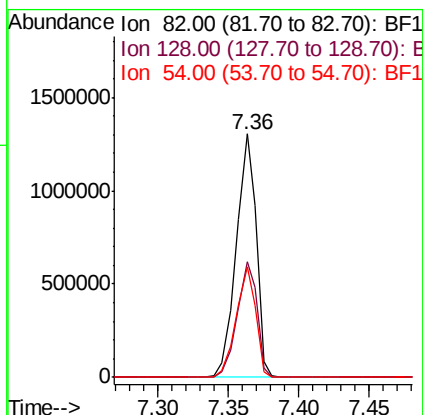
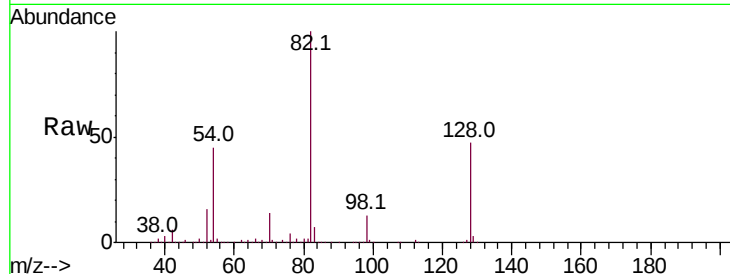




#23  
Nitrobenzene-d5  
Concen: 69.154 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.02 min  
Lab File: BF118886.D  
Acq: 11 Feb 2020 16:13

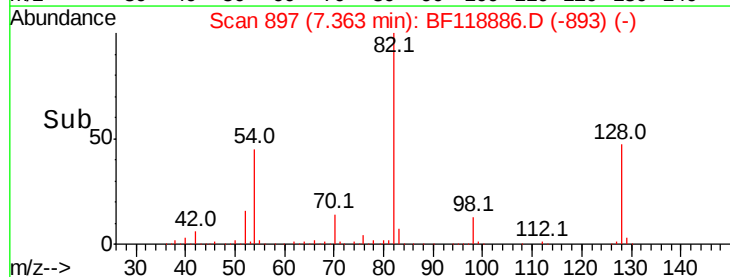
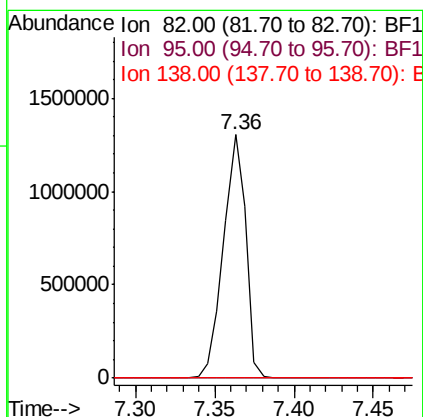
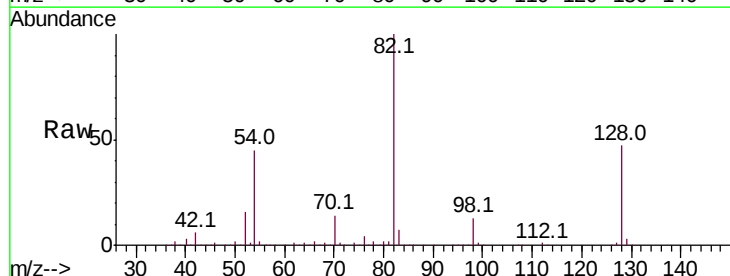
Instrument :  
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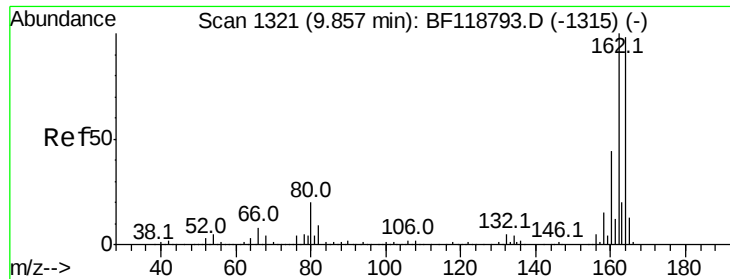
Tot Ion: 82 Resp: 1279596  
Ion Ratio Lower Upper  
82 100  
128 47.2 38.5 57.7  
54 45.5 36.7 55.1



#25  
Isophorone  
Concen: 38.402 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.28 min  
Lab File: BF118886.D  
Acq: 11 Feb 2020 16:13

Tgt Ion: 82 Resp: 1277075  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.0 9.0#  
138 0.0 15.7 23.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.02 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-02

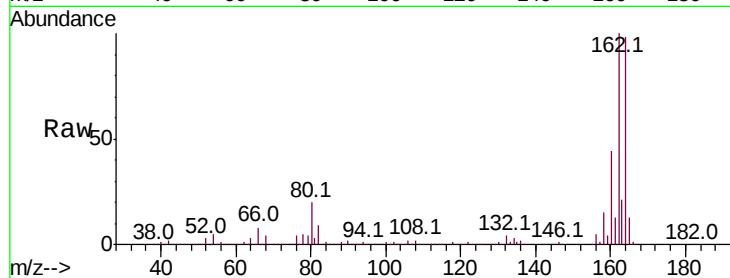
Tot Ion:164 Resp: 615252

Ion Ratio Lower Upper

164 100

162 102.3 81.4 122.2

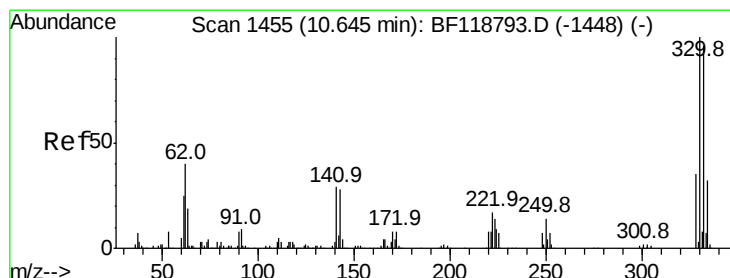
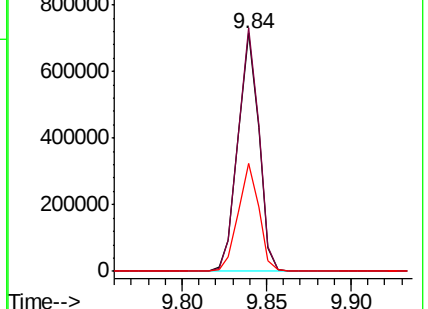
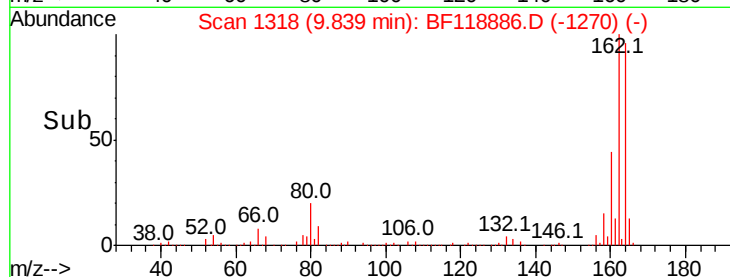
160 45.4 35.6 53.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 95.597 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

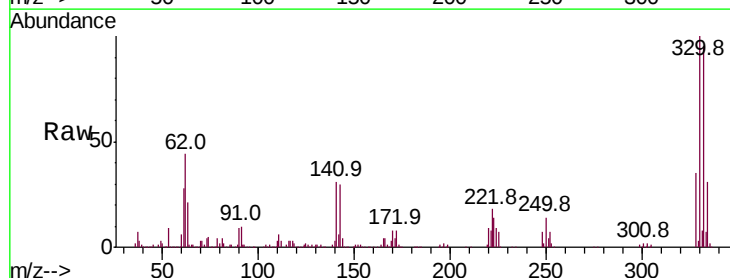
Tgt Ion:330 Resp: 703752

Ion Ratio Lower Upper

330 100

332 96.7 77.3 115.9

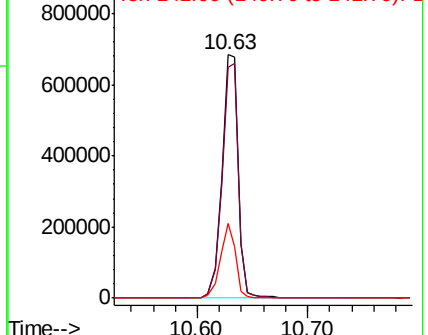
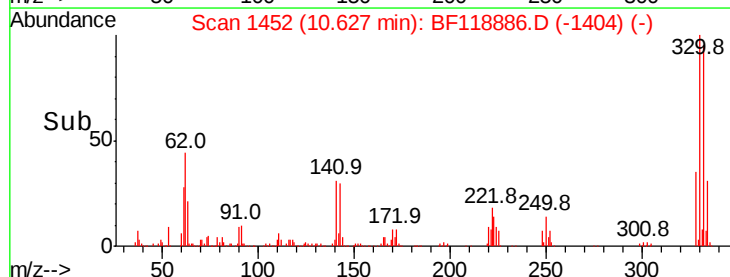
141 28.4 22.4 33.6

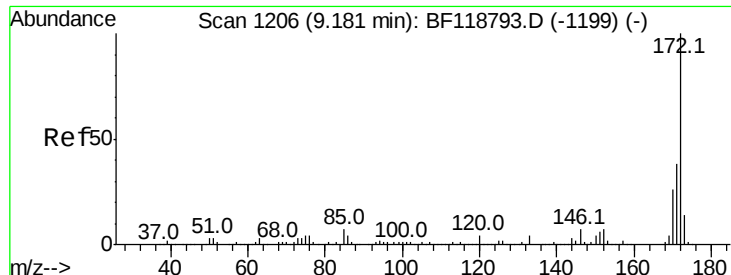


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



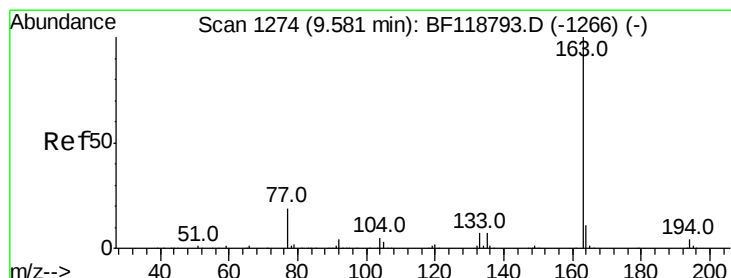
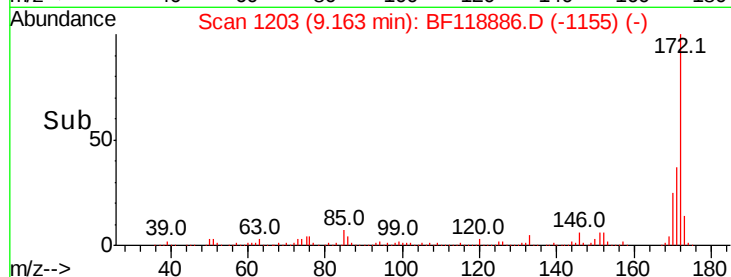
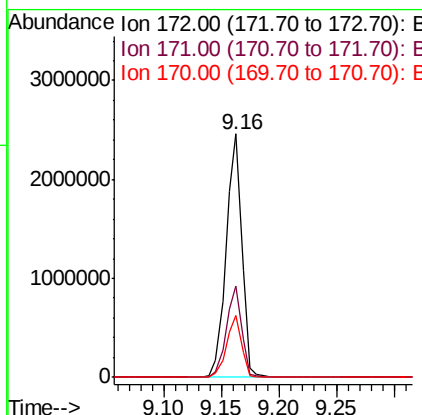
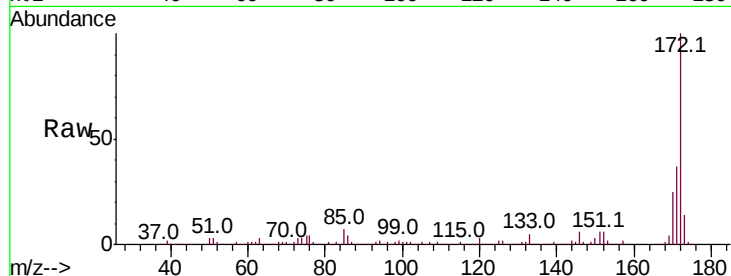


#45  
 2-Fluorobiphenyl  
 Concen: 67.179 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.02 min  
 Lab File: BF118886.D  
 Acq: 11 Feb 2020 16:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-02

Tot Ion:172 Resp: 2312014  

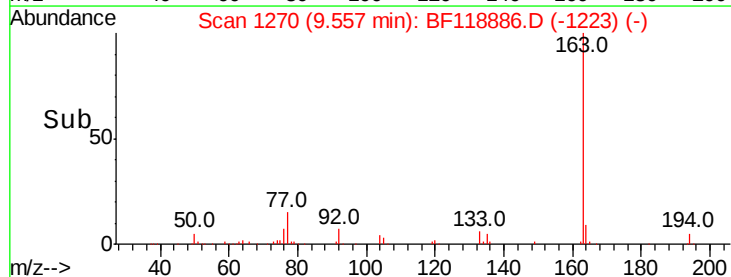
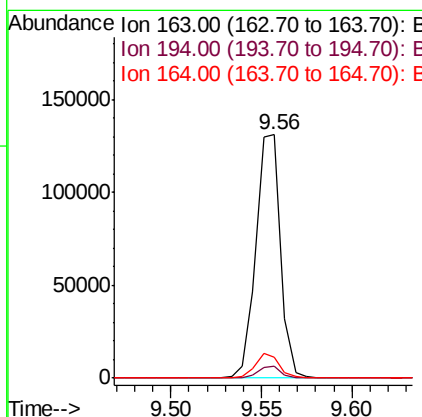
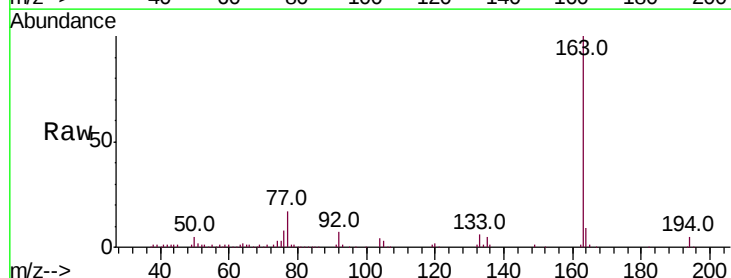
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.3  | 30.8  | 46.2  |
| 170 | 25.2  | 20.5  | 30.7  |

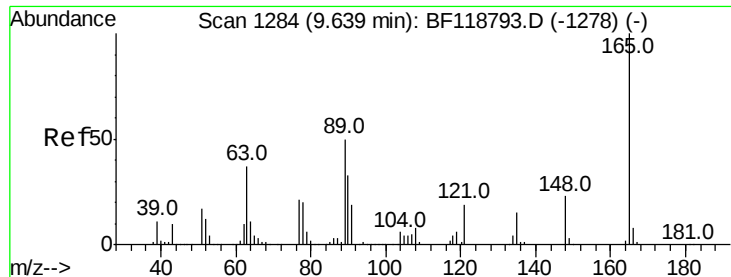


#50  
 Dimethylphthalate  
 Concen: 2.955 ng  
 RT: 9.56 min Scan# 1270  
 Delta R.T. -0.02 min  
 Lab File: BF118886.D  
 Acq: 11 Feb 2020 16:13

Tgt Ion:163 Resp: 123778  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 4.9   | 3.6   | 5.4   |
| 164 | 8.8   | 8.7   | 13.1  |

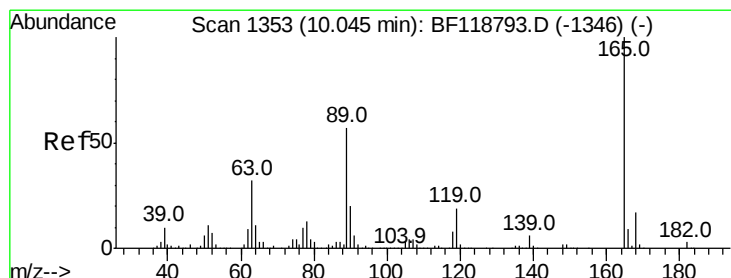
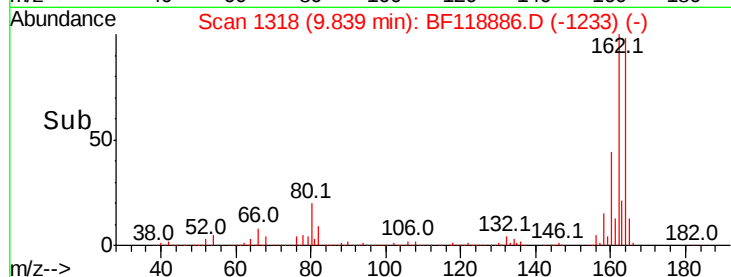
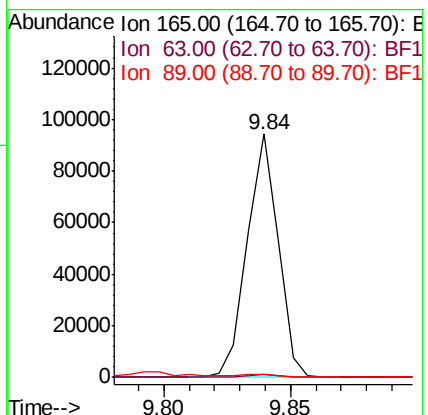
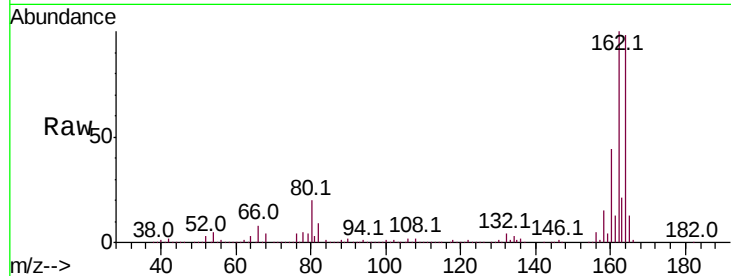




#51  
 2,6-Dinitrotoluene  
 Concen: 8.426 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. 0.20 min  
 Lab File: BF118886.D  
 Acq: 11 Feb 2020 16:13

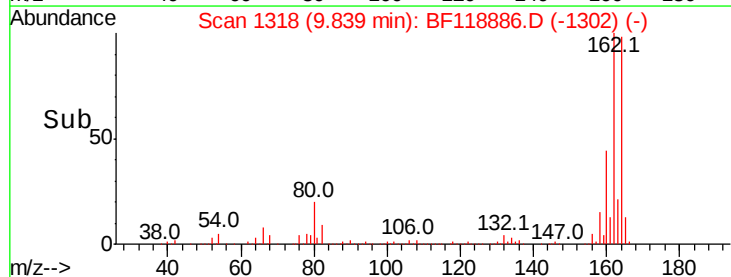
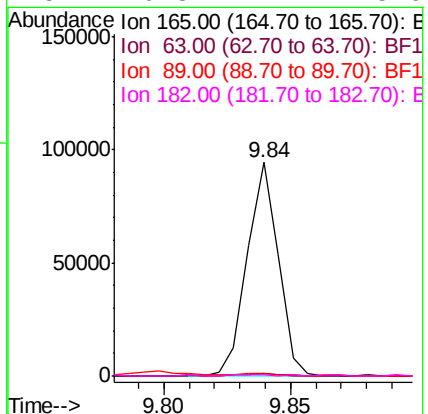
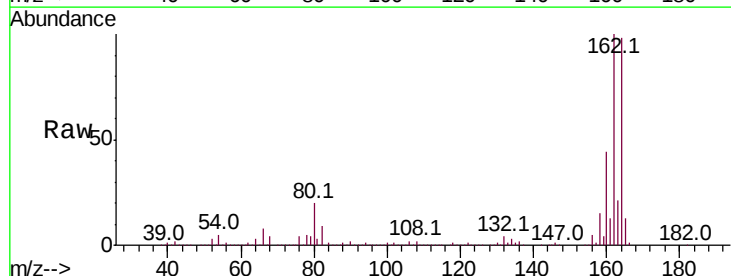
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-02

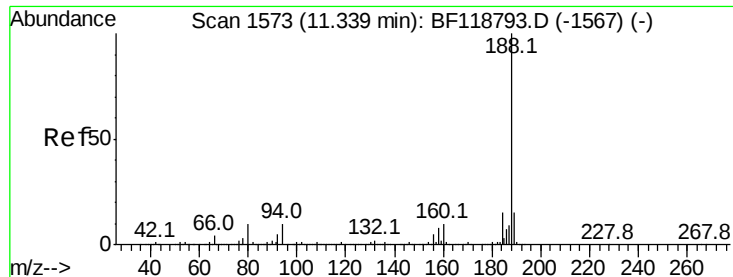
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 37.4  | 56.0# |
| 89      | 1.2   | 39.7  | 59.5# |



#57  
 2,4-Dinitrotoluene  
 Concen: 6.367 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.21 min  
 Lab File: BF118886.D  
 Acq: 11 Feb 2020 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 25.5  | 38.3# |
| 89      | 1.2   | 45.4  | 68.0# |
| 182     | 0.3   | 2.4   | 3.6#  |

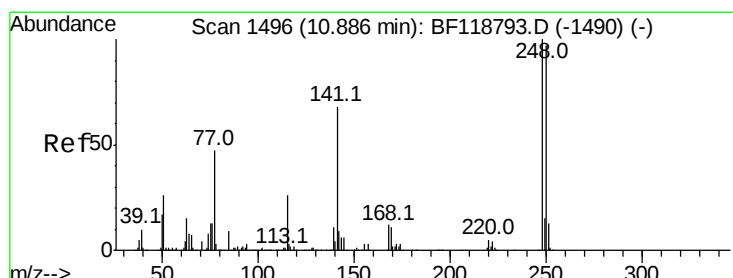
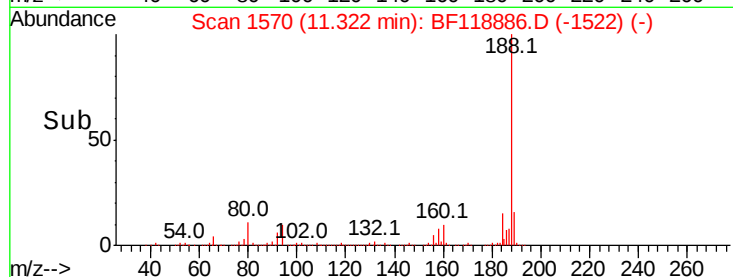
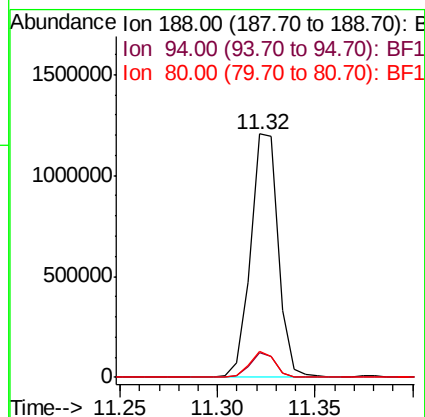
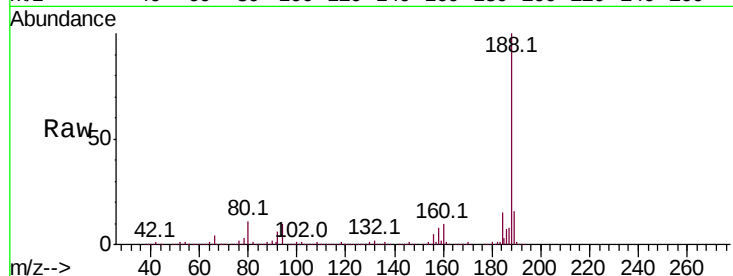




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.02 min  
Lab File: BF118886.D  
Acq: 11 Feb 2020 16:13

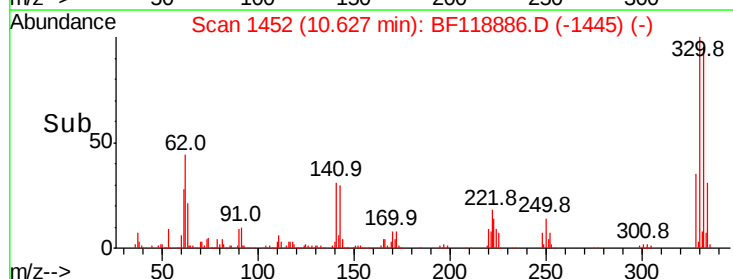
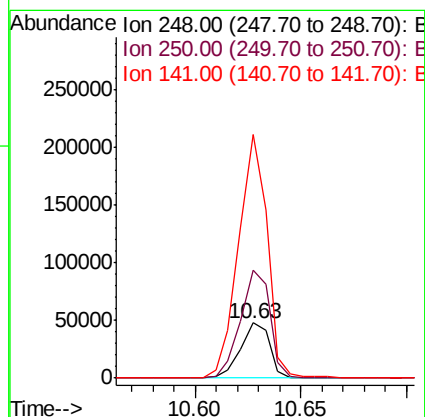
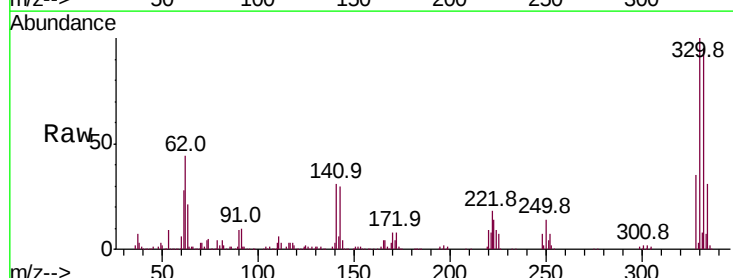
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-02

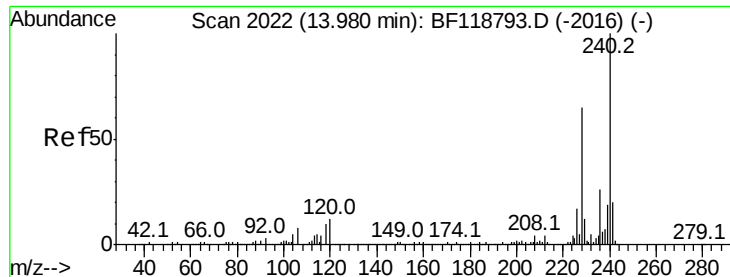
Tot Ion:188 Resp: 1183729  
Ion Ratio Lower Upper  
188 100  
94 10.2 7.9 11.9  
80 10.8 8.4 12.6



#67  
4-Bromophenyl-phenylether  
Concen: 3.287 ng  
RT: 10.63 min Scan# 1452  
Delta R.T. -0.26 min  
Lab File: BF118886.D  
Acq: 11 Feb 2020 16:13

Tgt Ion:248 Resp: 46025  
Ion Ratio Lower Upper  
248 100  
250 196.9 77.6 116.4#  
141 442.6 54.4 81.6#

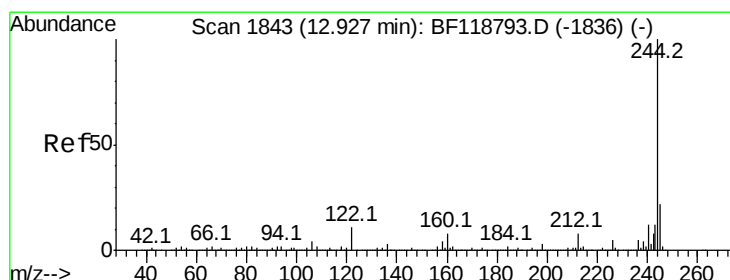
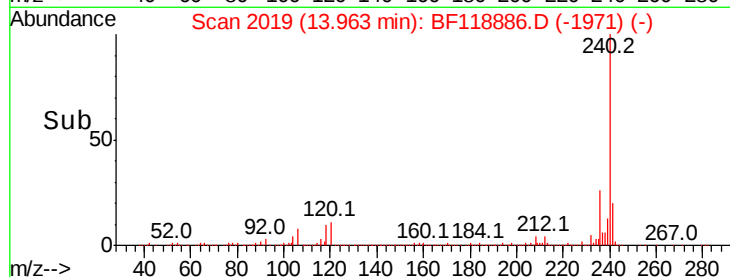
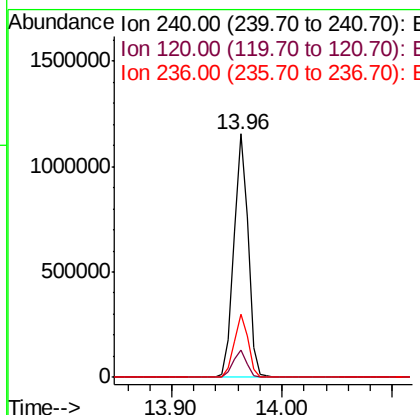
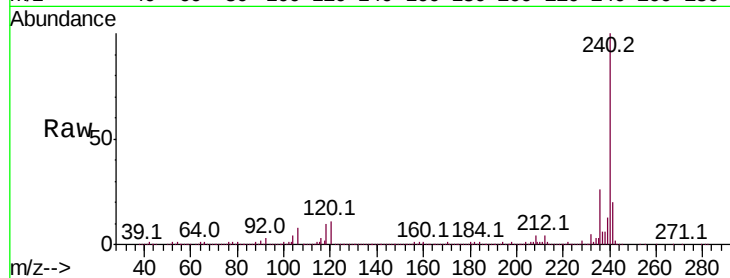




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.96 min Scan# 2019  
 Delta R.T. -0.02 min  
 Lab File: BF118886.D  
 Acq: 11 Feb 2020 16:13

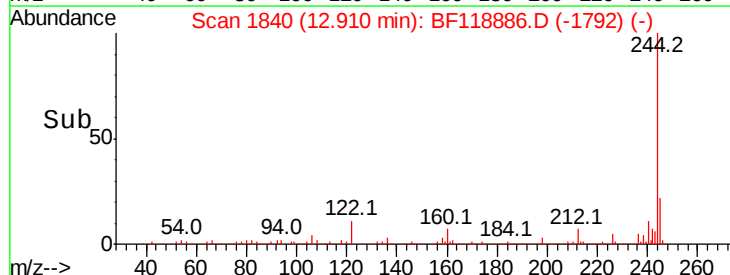
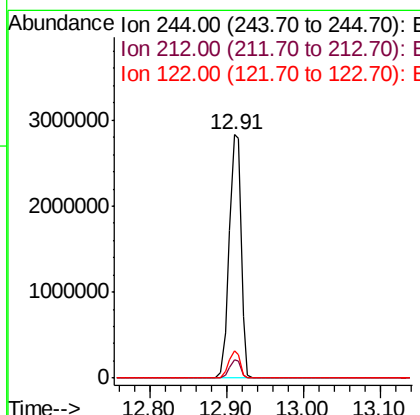
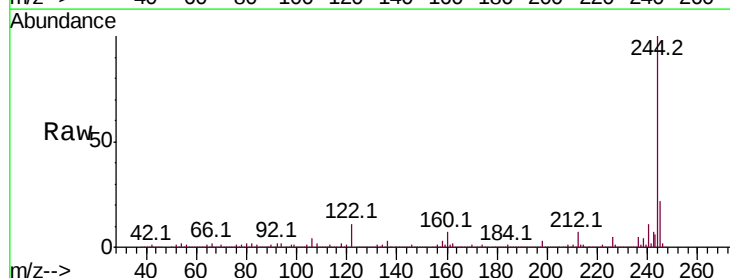
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-02

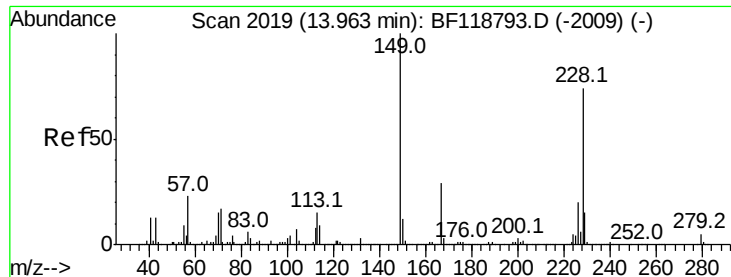
Tot Ion:240 Resp: 1051656  
 Ion Ratio Lower Upper  
 240 100  
 120 11.1 9.4 14.0  
 236 26.2 21.0 31.6



#79  
 Terphenyl-d14  
 Concen: 60.183 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. -0.02 min  
 Lab File: BF118886.D  
 Acq: 11 Feb 2020 16:13

Tgt Ion:244 Resp: 3081345  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.5 9.7  
 122 11.4 8.9 13.3





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.299 ng

RT: 13.94 min Scan# 2016

Delta R.T. -0.02 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-02

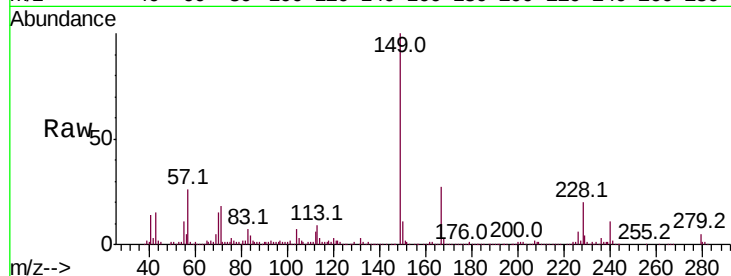
Tot Ion:149 Resp: 137811

Ion Ratio Lower Upper

149 100

167 26.8 23.0 34.6

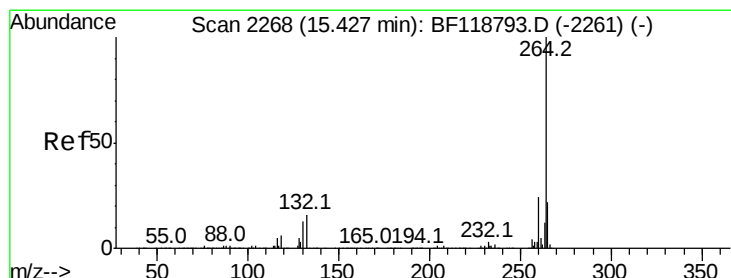
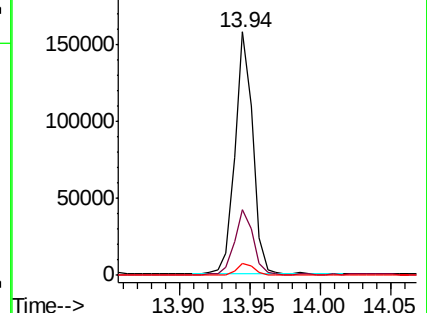
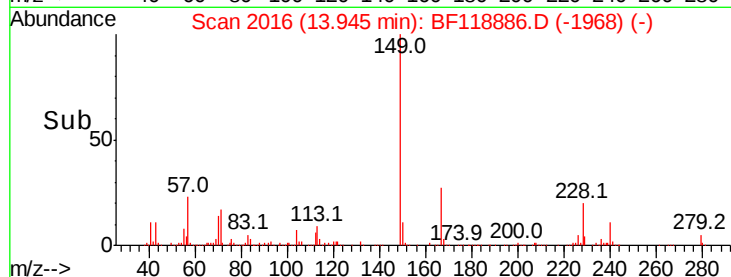
279 4.7 4.4 6.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.02 min

Lab File: BF118886.D

Acq: 11 Feb 2020 16:13

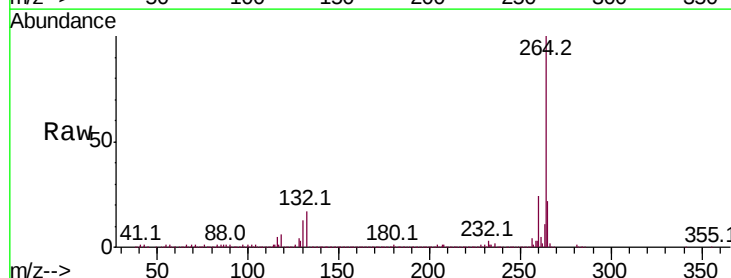
Tgt Ion:264 Resp: 917187

Ion Ratio Lower Upper

264 100

260 24.2 19.1 28.7

265 22.0 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

