

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081222\  
 Data File : VD074063.D  
 Acq On : 12 Aug 2022 15:20  
 Operator : VA/SY  
 Sample : N4107-09  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-STOCKPILE

Quant Time: Aug 12 23:47:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081022S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 14:55:58 2022  
 Response via : Initial Calibration

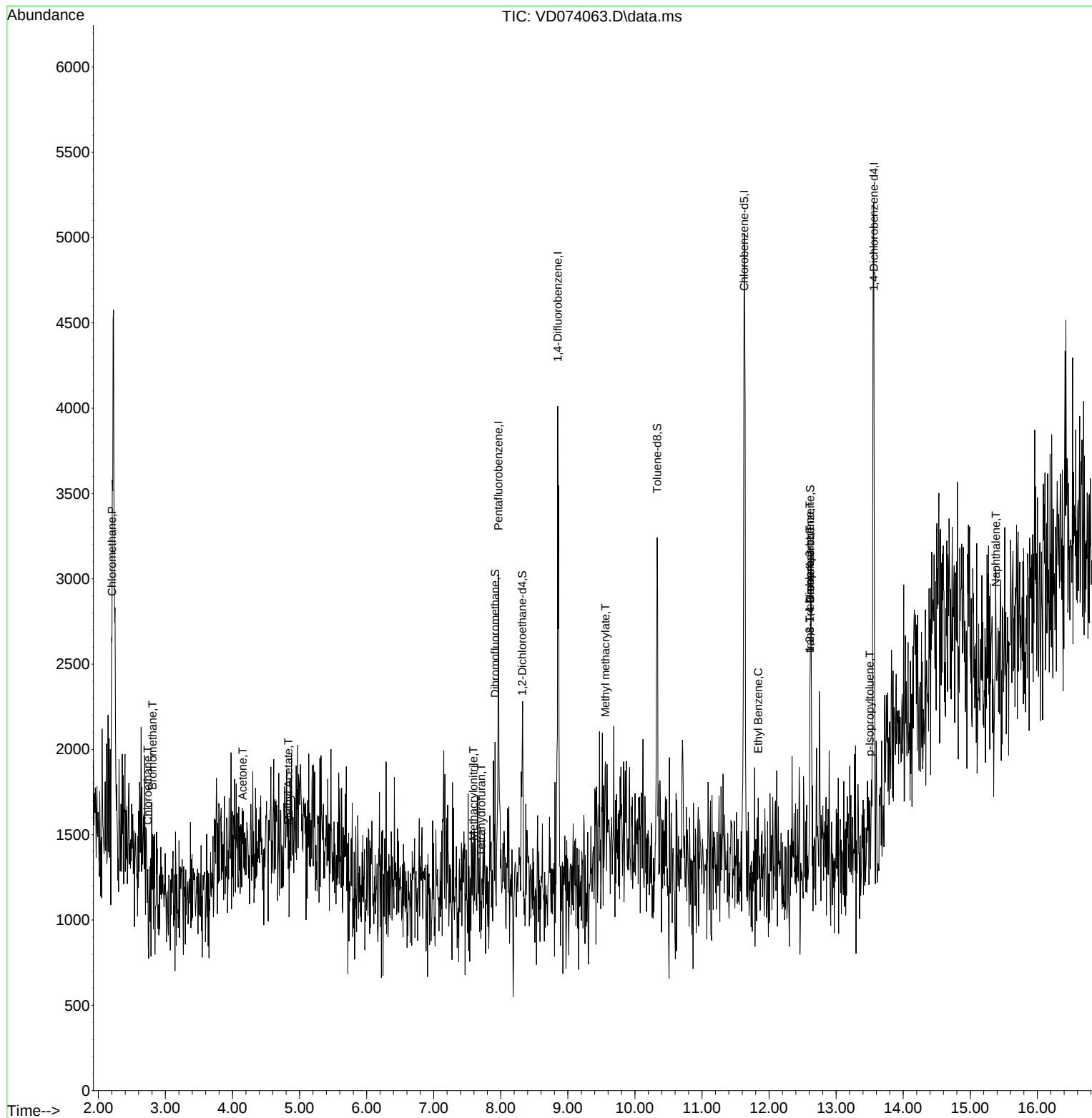
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.967  | 168   | 1500     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.849  | 114   | 2414     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 2322     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 995      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.320  | 65    | 662      | 56.998   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =      | 114.000% |
| 35) Dibromofluoromethane      | 7.914  | 113   | 425      | 26.507   | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =      | 53.020%# |
| 50) Toluene-d8                | 10.332 | 98    | 1600     | 36.631   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | =      | 73.260%  |
| 62) 4-Bromofluorobenzene      | 12.614 | 95    | 862      | 43.718   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | =      | 87.440%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 2.203  | 50    | 149      | 2.883    | ug/l # | 40       |
| 5) Bromomethane               | 2.809  | 94    | 139      | 6.320    | ug/l # | 4        |
| 6) Chloroethane               | 2.738  | 64    | 63       | 2.758    | ug/l # | 43       |
| 16) Acetone                   | 4.150  | 43    | 56       | 23.332   | ug/l # | 46       |
| 18) Methyl Acetate            | 4.832  | 43    | 53       | 5.252    | ug/l # | 49       |
| 29) Tetrahydrofuran           | 7.708  | 42    | 67       | 28.995   | ug/l # | 31       |
| 41) Methacrylonitrile         | 7.591  | 41    | 67       | 14.119   | ug/l # | 18       |
| 48) Methyl methacrylate       | 9.561  | 41    | 55       | 6.945    | ug/l # | 6        |
| 67) Ethyl Benzene             | 11.838 | 91    | 90       | 1.043    | ug/l # | 44       |
| 76) 1,2,3-Trichloropropane    | 12.608 | 75    | 373      | 41.059   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.608 | 75    | 373      | 109.586  | ug/l # | 13       |
| 86) p-Isopropyltoluene        | 13.502 | 119   | 115      | 1.787    | ug/l # | 50       |
| 95) Naphthalene               | 15.384 | 128   | 64       | 2.088    | ug/l # | 69       |
| -----                         |        |       |          |          |        |          |

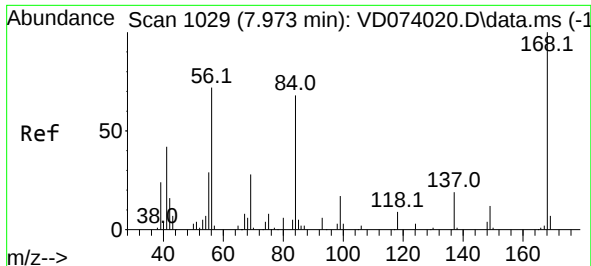
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081222\  
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Sample : N4107-09  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-STOCKPILE

Quant Time: Aug 12 23:47:43 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081022S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 10 14:55:58 2022  
Response via : Initial Calibration

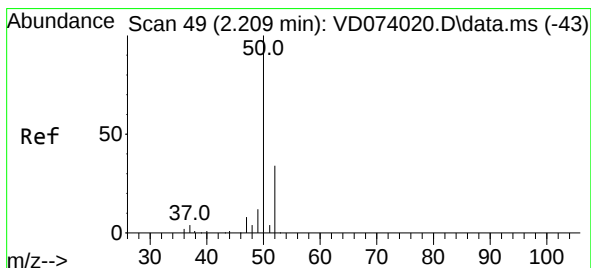
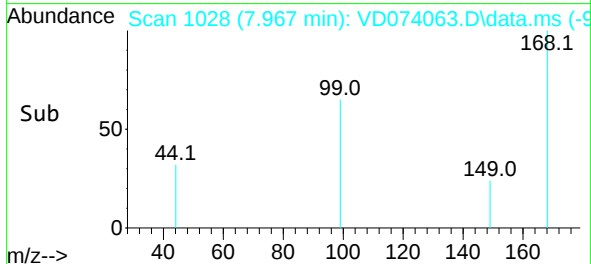
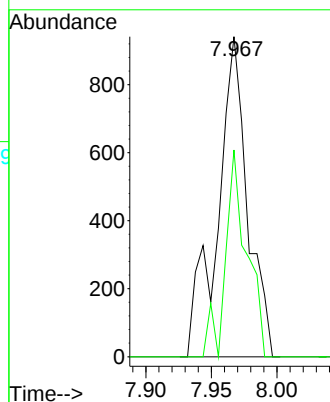
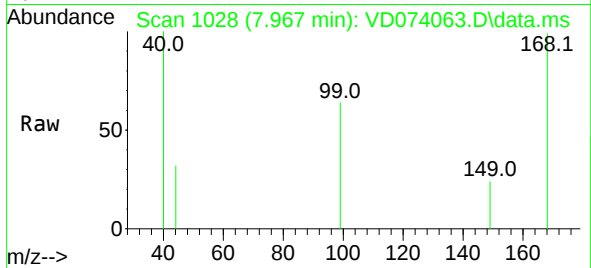




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.967 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

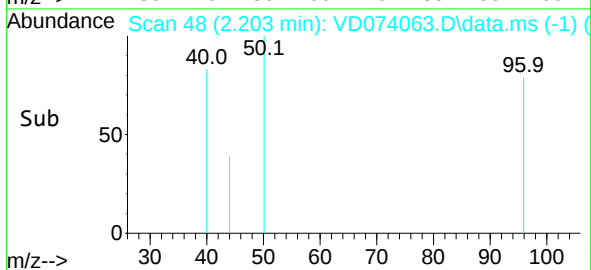
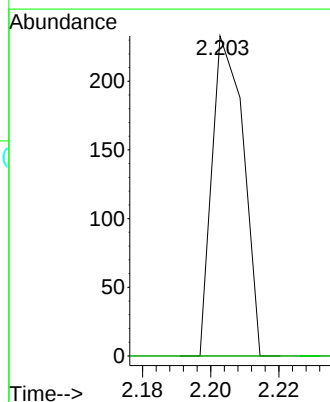
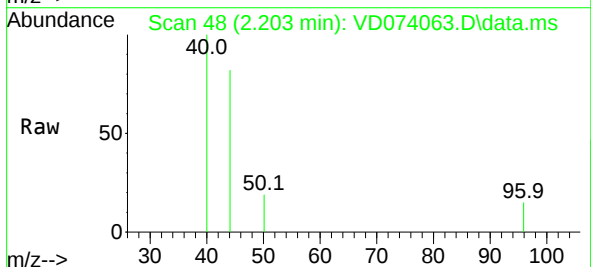
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-STOCKPILE

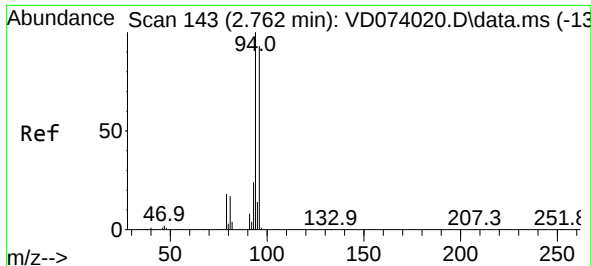
Tgt Ion:168 Resp: 1500  
Ion Ratio Lower Upper  
168 100  
99 64.6 48.3 72.5



#3  
Chloromethane  
Concen: 2.883 ug/l  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

Tgt Ion: 50 Resp: 149  
Ion Ratio Lower Upper  
50 100  
52 0.0 28.1 42.1#

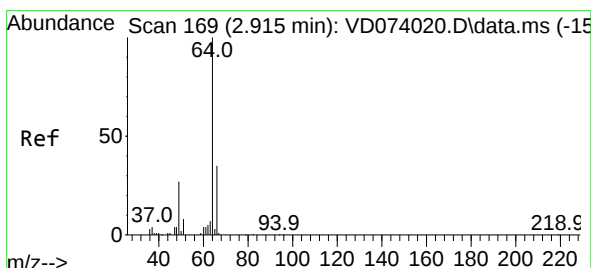
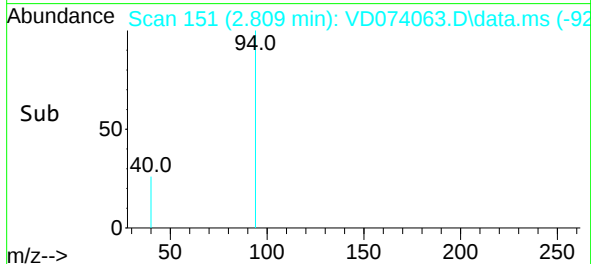
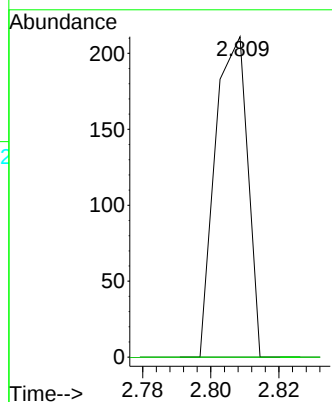
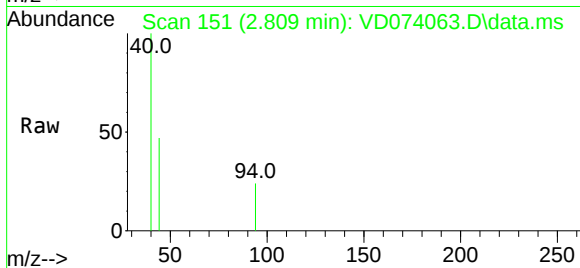




#5  
Bromomethane  
Concen: 6.320 ug/l  
RT: 2.809 min Scan# 11  
Delta R.T. 0.047 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

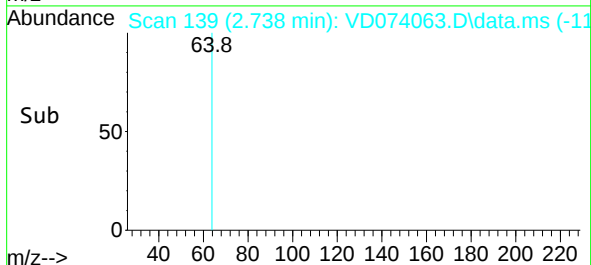
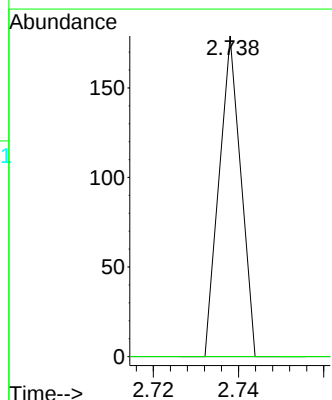
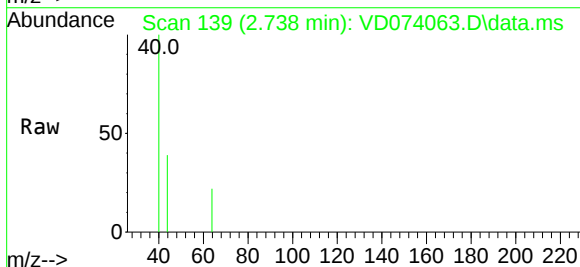
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-STOCKPILE

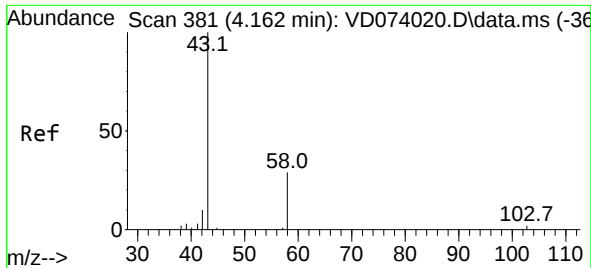
Tgt Ion: 94 Resp: 139  
Ion Ratio Lower Upper  
94 100  
96 0.0 72.0 108.0#



#6  
Chloroethane  
Concen: 2.758 ug/l  
RT: 2.738 min Scan# 139  
Delta R.T. -0.177 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

Tgt Ion: 64 Resp: 63  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.6#

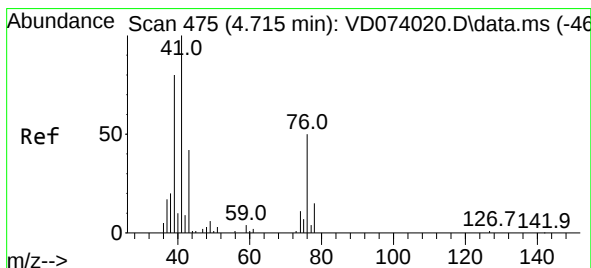
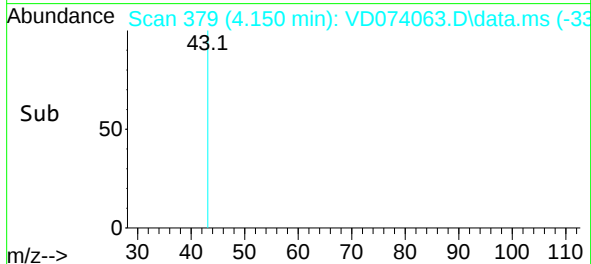
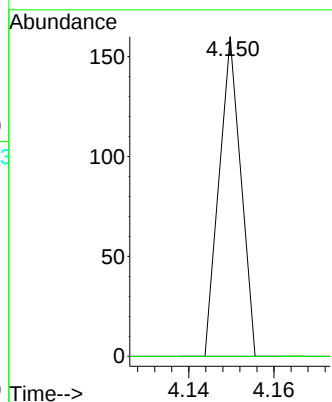
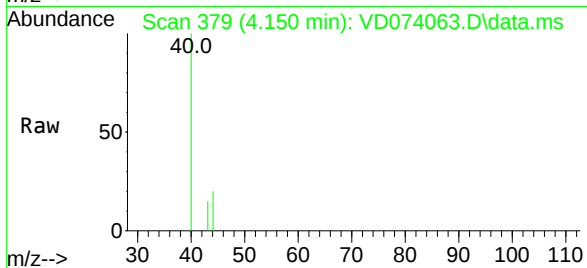




#16  
Acetone  
Concen: 23.332 ug/l  
RT: 4.150 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

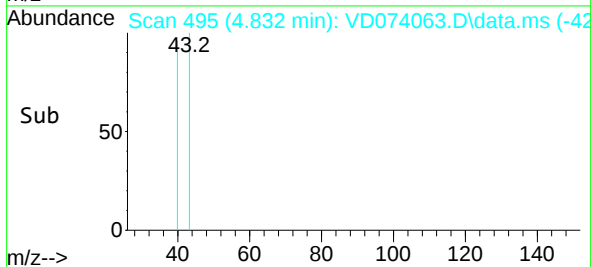
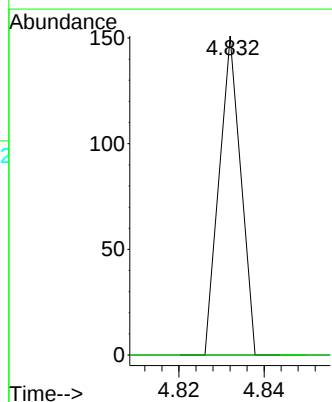
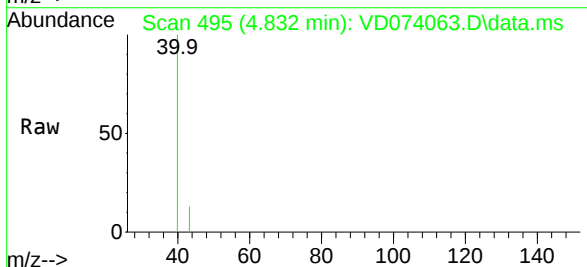
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-STOCKPILE

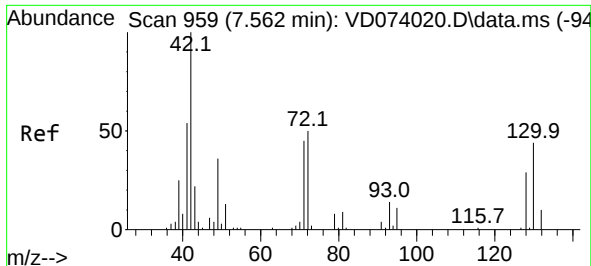
Tgt Ion: 43 Resp: 56  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.8 34.2#



#18  
Methyl Acetate  
Concen: 5.252 ug/l  
RT: 4.832 min Scan# 495  
Delta R.T. 0.117 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

Tgt Ion: 43 Resp: 53  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#





#29

Tetrahydrofuran

Concen: 28.995 ug/l

RT: 7.708 min Scan# 91

Delta R.T. 0.146 min

Lab File: VD074063.D

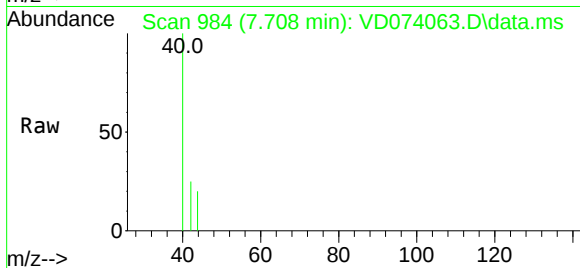
Acq: 12 Aug 2022 15:20

Instrument :

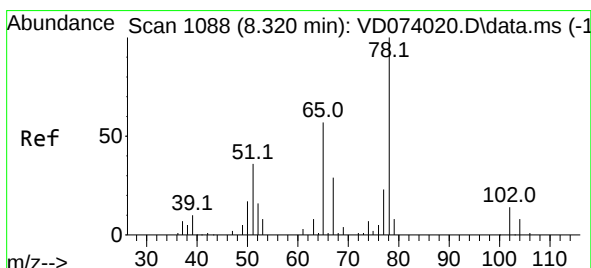
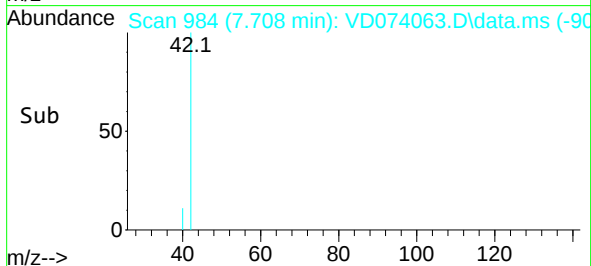
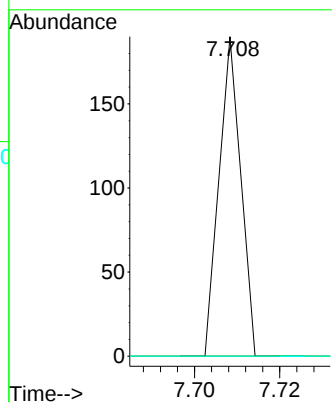
MSVOA\_D

ClientSampleId :

SOIL-STOCKPILE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 67    |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 37.4  | 56.2# |
| 71       | 0.0   | 35.5  | 53.3# |



#33

1,2-Dichloroethane-d4

Concen: 56.998 ug/l

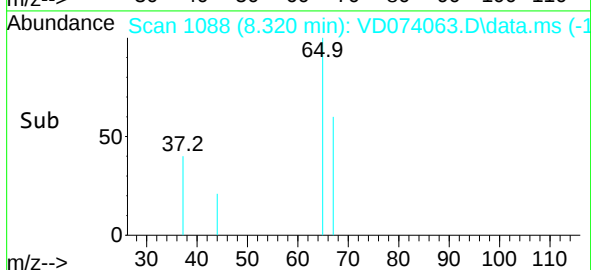
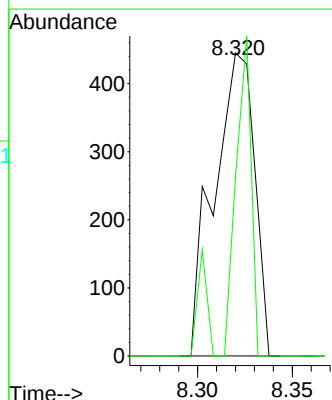
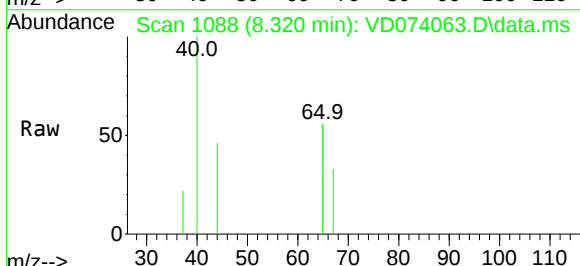
RT: 8.320 min Scan# 1088

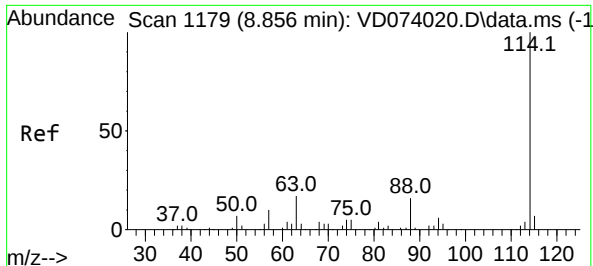
Delta R.T. 0.000 min

Lab File: VD074063.D

Acq: 12 Aug 2022 15:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 662   |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 39.1  | 0.0   | 113.6 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1178

Delta R.T. -0.006 min

Lab File: VD074063.D

Acq: 12 Aug 2022 15:20

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-STOCKPILE

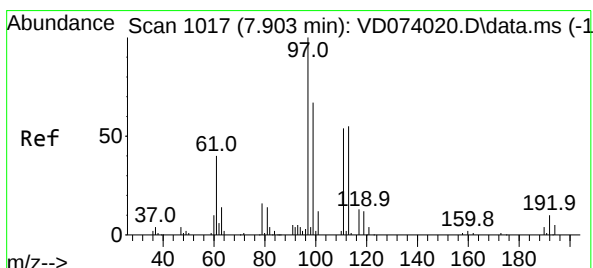
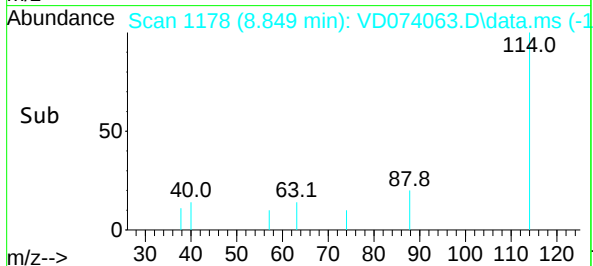
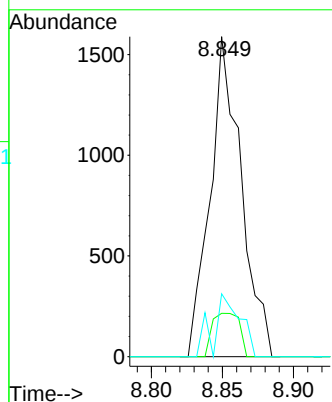
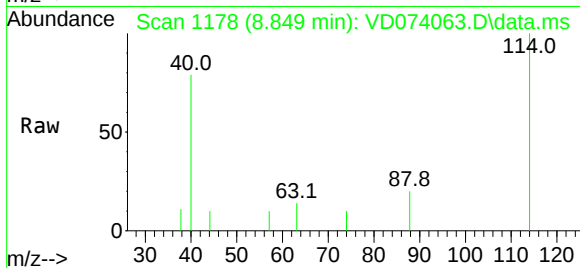
Tgt Ion:114 Resp: 2414

Ion Ratio Lower Upper

114 100

63 13.5 0.0 41.0

88 19.6 0.0 31.6



#35

Dibromofluoromethane

Concen: 26.507 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.011 min

Lab File: VD074063.D

Acq: 12 Aug 2022 15:20

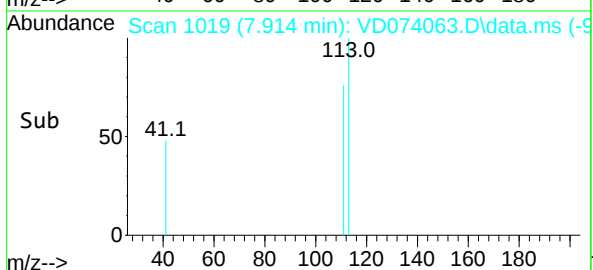
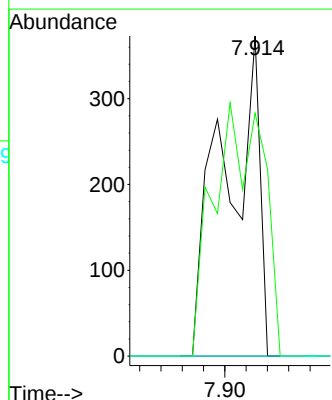
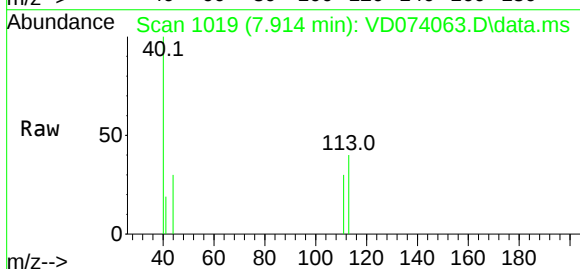
Tgt Ion:113 Resp: 425

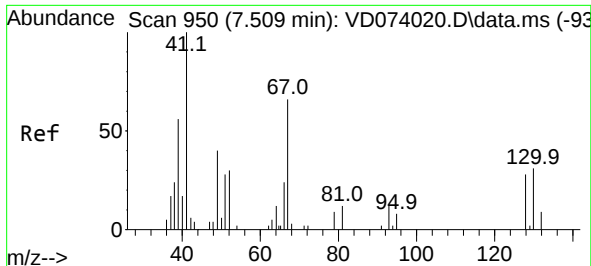
Ion Ratio Lower Upper

113 100

111 112.2 80.0 120.0

192 0.0 14.2 21.4#

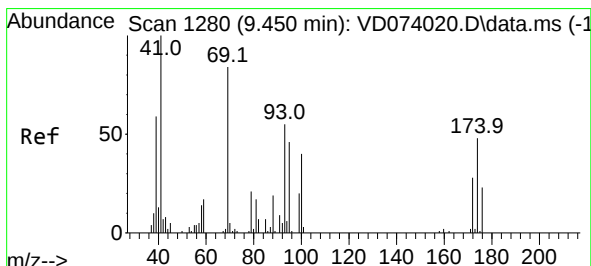
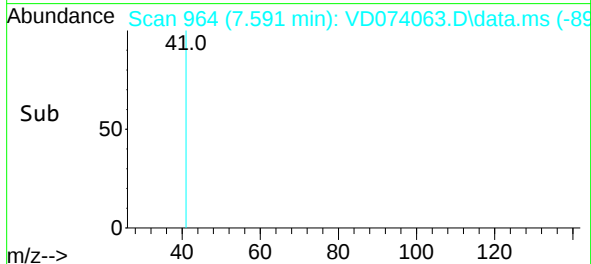
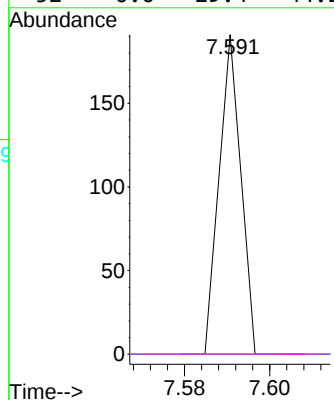
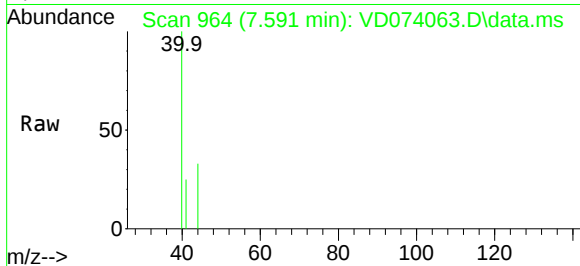




#41  
Methacrylonitrile  
Concen: 14.119 ug/l  
RT: 7.591 min Scan# 91  
Delta R.T. 0.082 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

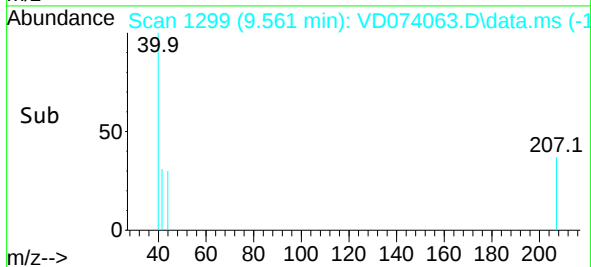
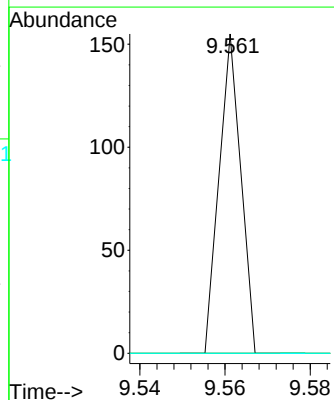
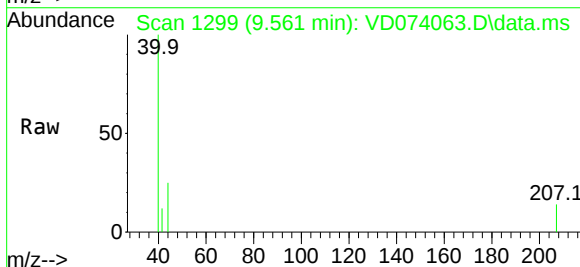
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-STOCKPILE

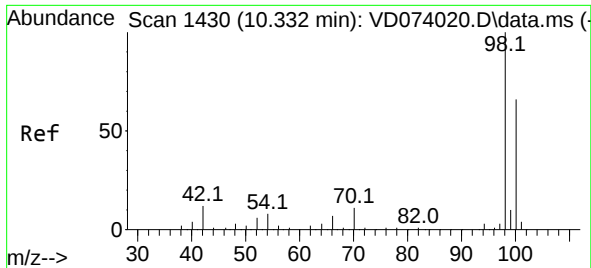
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|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 67    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 48.2  | 72.4# |
| 67       | 0.0   | 66.3  | 99.5# |
| 52       | 0.0   | 29.4  | 44.2# |



#48  
Methyl methacrylate  
Concen: 6.945 ug/l  
RT: 9.561 min Scan# 1299  
Delta R.T. 0.111 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 55     |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 77.0  | 115.4# |
| 39       | 0.0   | 59.0  | 88.6#  |

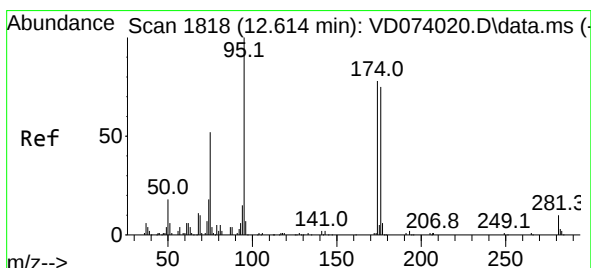
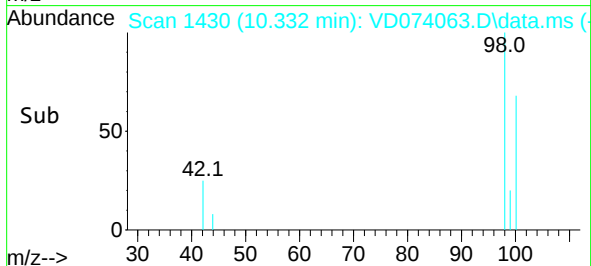
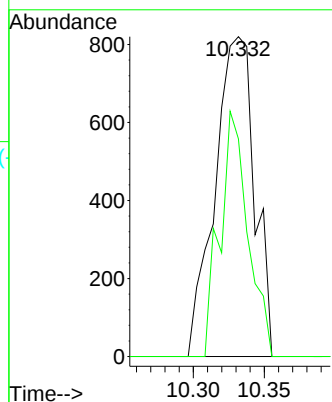
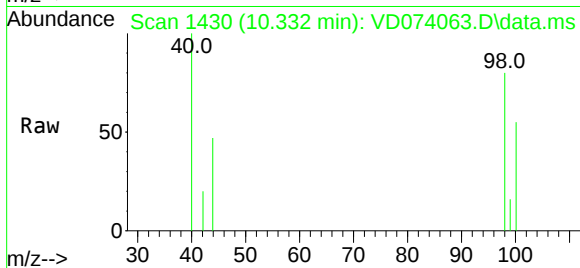




#50  
Toluene-d8  
Concen: 36.631 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

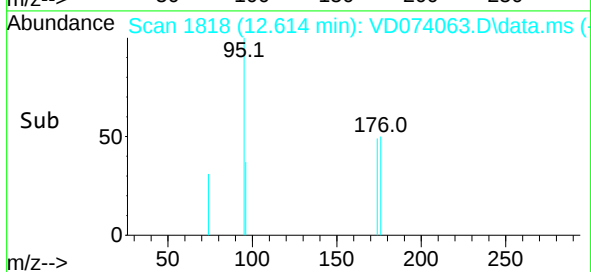
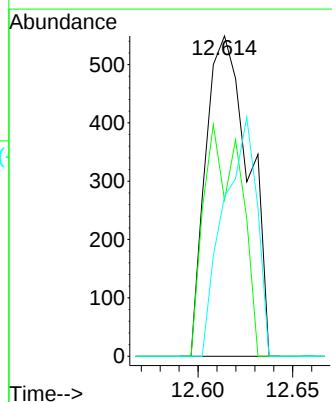
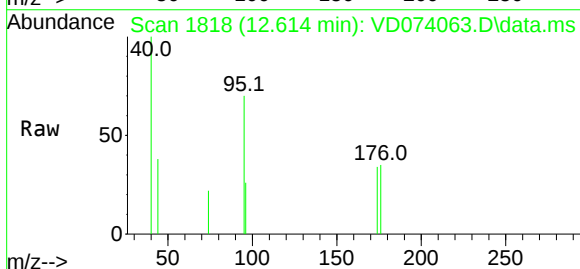
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-STOCKPILE

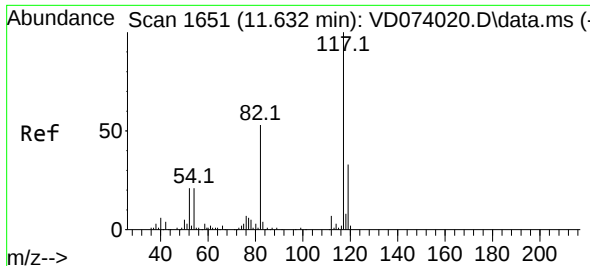
Tgt Ion: 98 Resp: 1600  
Ion Ratio Lower Upper  
98 100  
100 53.9 51.3 76.9



#62  
4-Bromofluorobenzene  
Concen: 43.718 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. -0.000 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

Tgt Ion: 95 Resp: 862  
Ion Ratio Lower Upper  
95 100  
174 62.4 0.0 162.6  
176 57.9 0.0 160.0

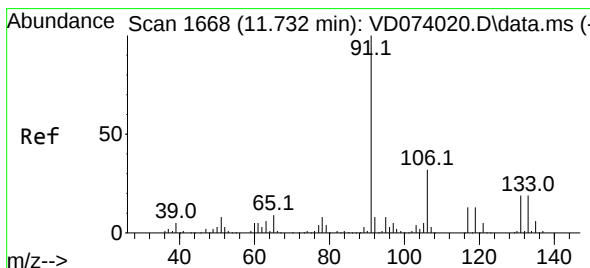
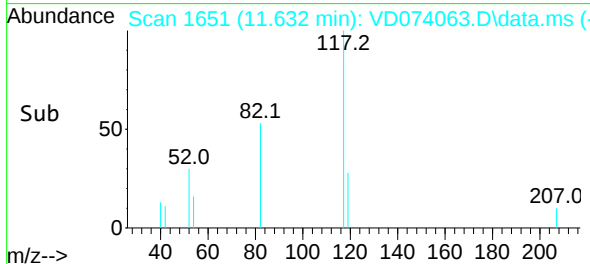
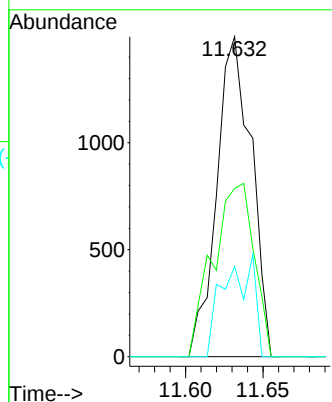
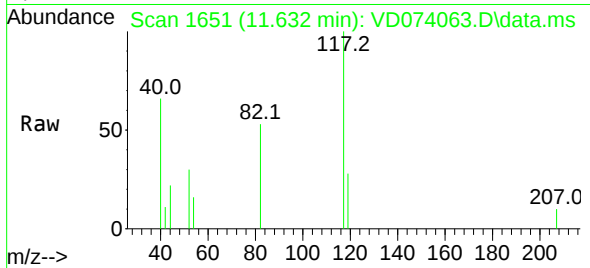




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

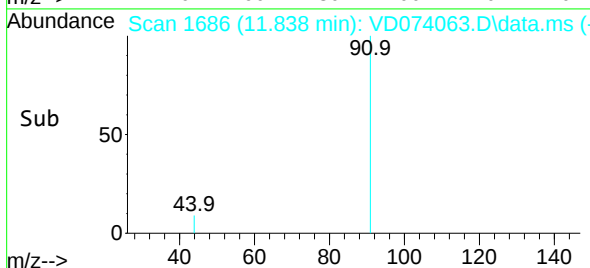
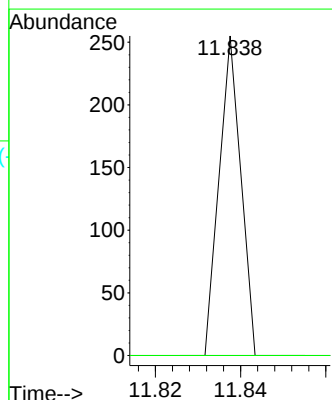
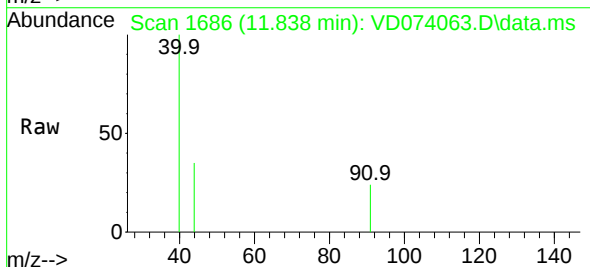
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ClientSampleId :  
SOIL-STOCKPILE

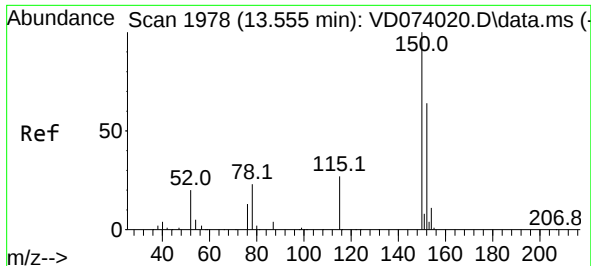
Tgt Ion:117 Resp: 2322  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.7 64.1  
119 28.1 25.8 38.8



#67  
Ethyl Benzene  
Concen: 1.043 ug/l  
RT: 11.838 min Scan# 1686  
Delta R.T. 0.106 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

Tgt Ion: 91 Resp: 90  
Ion Ratio Lower Upper  
91 100  
106 0.0 24.7 37.1#

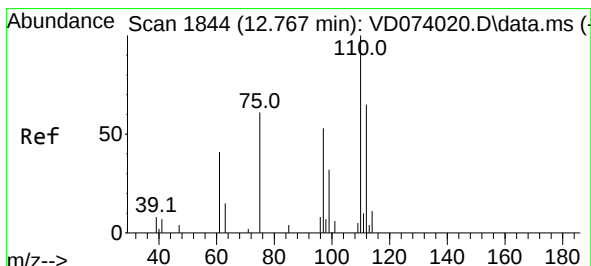
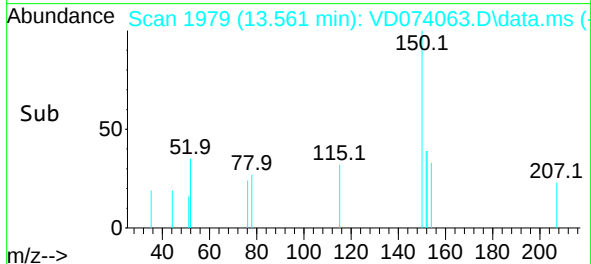
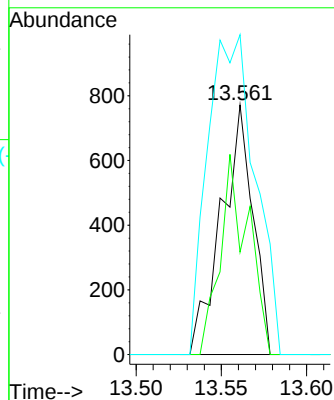
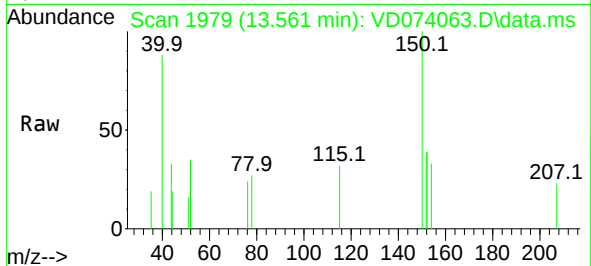




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.006 min  
 Lab File: VD074063.D  
 Acq: 12 Aug 2022 15:20

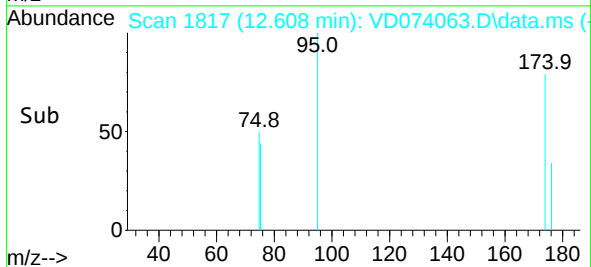
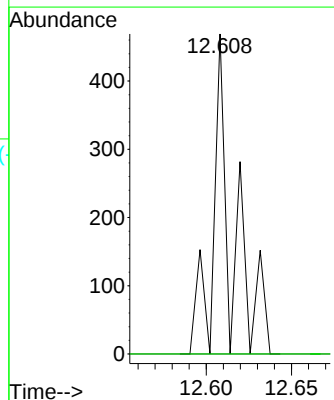
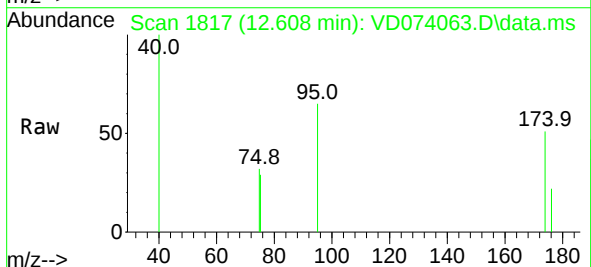
Instrument :  
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 ClientSampleId :  
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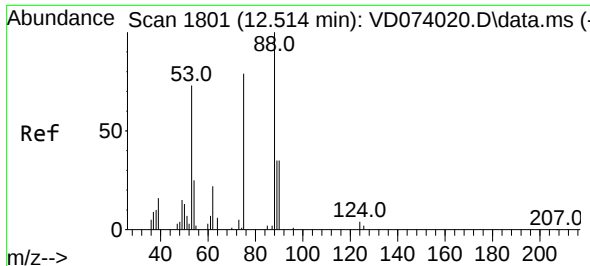
Tgt Ion:152 Resp: 995  
 Ion Ratio Lower Upper  
 152 100  
 115 71.6 29.9 89.8  
 150 192.7 0.0 342.8



#76  
 1,2,3-Trichloropropane  
 Concen: 41.059 ug/l  
 RT: 12.608 min Scan# 1817  
 Delta R.T. -0.159 min  
 Lab File: VD074063.D  
 Acq: 12 Aug 2022 15:20

Tgt Ion: 75 Resp: 373  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0

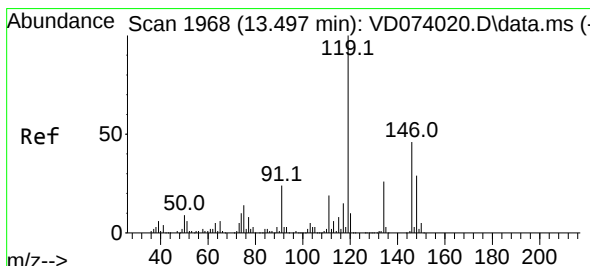
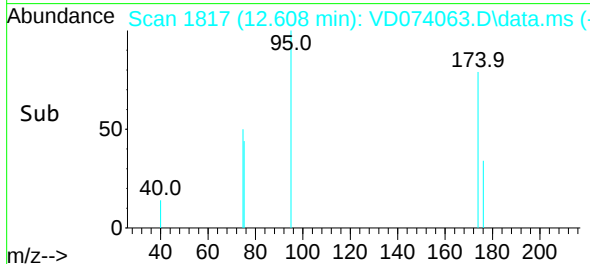
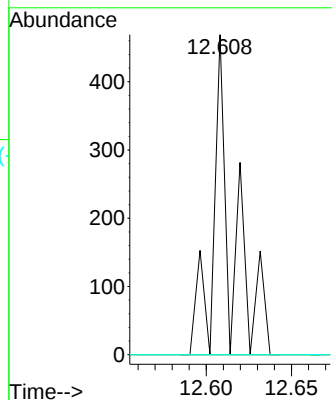
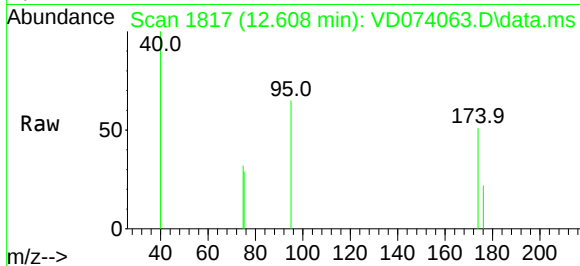




#81  
trans-1,4-Dichloro-2-butene  
Concen: 109.586 ug/l  
RT: 12.608 min Scan# 1801  
Delta R.T. 0.094 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

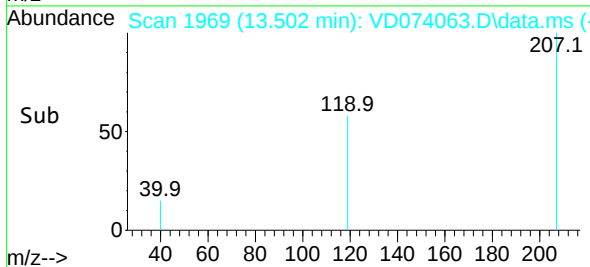
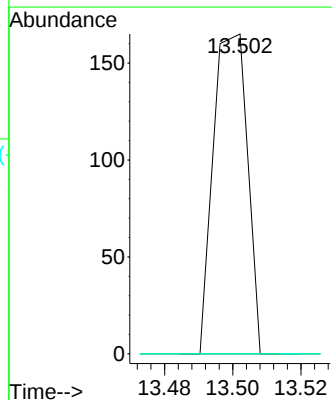
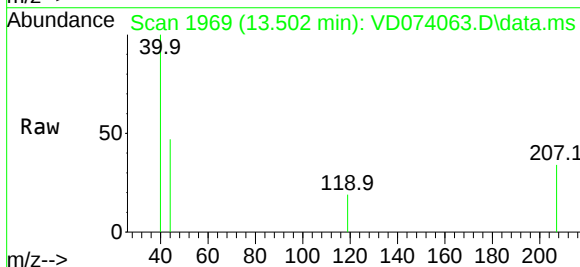
Instrument :  
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ClientSampleId :  
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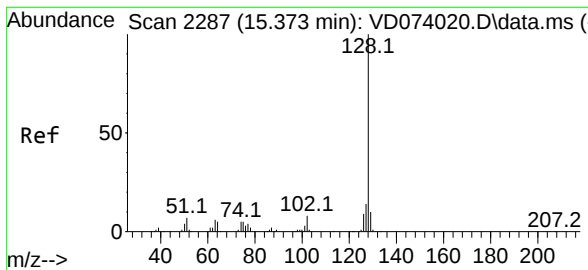
Tgt Ion: 75 Resp: 373  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.3 106.9#  
89 0.0 38.3 57.5#



#86  
p-Isopropyltoluene  
Concen: 1.787 ug/l  
RT: 13.502 min Scan# 1969  
Delta R.T. 0.005 min  
Lab File: VD074063.D  
Acq: 12 Aug 2022 15:20

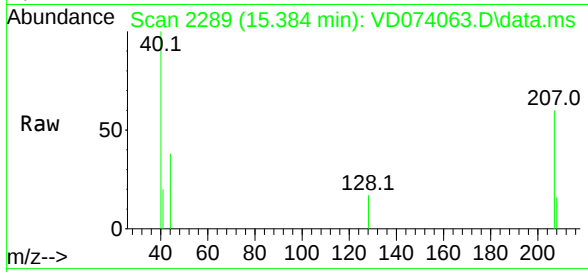
Tgt Ion: 119 Resp: 115  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.1 39.3#  
91 0.0 11.7 35.0#





#95  
 Naphthalene  
 Concen: 2.088 ug/l  
 RT: 15.384 min Scan# 21  
 Delta R.T. 0.011 min  
 Lab File: VD074063.D  
 Acq: 12 Aug 2022 15:20

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-STOCKPILE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 64    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.6  | 15.8# |
| 129      | 0.0   | 8.5   | 12.7# |

