

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041522\  
 Data File : VX028141.D  
 Acq On : 15 Apr 2022 18:19  
 Operator : JC/MD  
 Sample : N2394-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CS-4-SOIL-PILE

Quant Time: Apr 16 02:27:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 12 22:07:23 2022  
 Response via : Initial Calibration

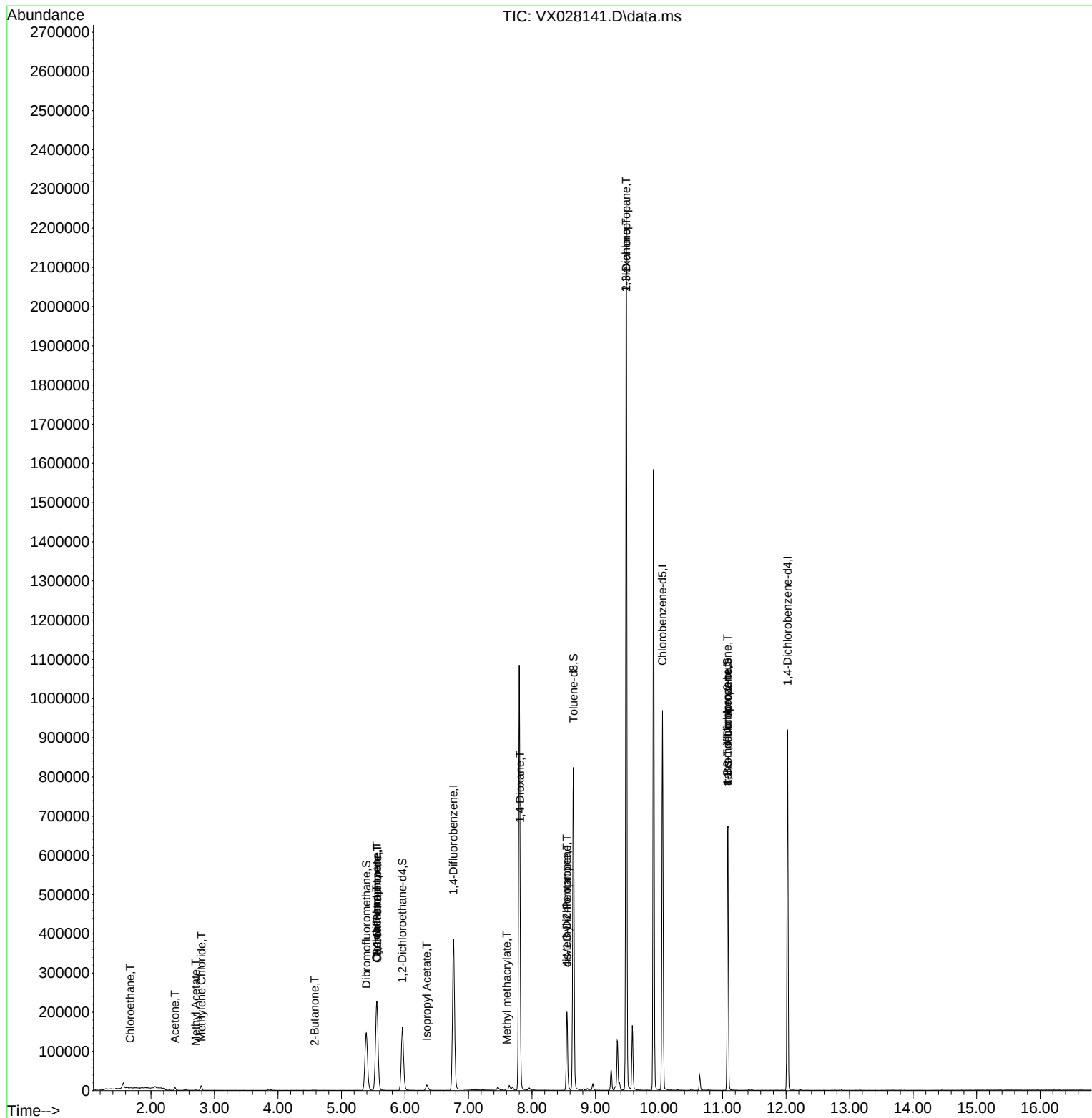
| Compound                      | R.T.   | QIon  | Response | Conc          | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|---------------|--------|----------|
| Internal Standards            |        |       |          |               |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 218556   | 50.000        | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 388109   | 50.000        | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 401806   | 50.000        | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 174787   | 50.000        | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |               |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 139991   | 47.213        | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery      | =      | 94.420%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 124406   | 48.918        | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery      | =      | 97.840%  |
| 50) Toluene-d8                | 8.653  | 98    | 480042   | 50.611        | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery      | =      | 101.220% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 160108   | 45.210        | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery      | =      | 90.420%  |
| Target Compounds              |        |       |          |               |        |          |
|                               |        |       |          |               | Qvalue |          |
| 5) Bromomethane               | 1.612  | 94    | 632      | Below Cal     |        | 96       |
| 6) Chloroethane               | 1.672  | 64    | 227      | 2.695 ug/l #  |        | 47       |
| 13) Acrolein                  | 2.221  | 56    | 81       | Below Cal     | #      | 15       |
| 16) Acetone                   | 2.380  | 43    | 7455     | 6.035 ug/l #  |        | 87       |
| 18) Methyl Acetate            | 2.703  | 43    | 1255     | 0.381 ug/l #  |        | 79       |
| 20) Methylene Chloride        | 2.794  | 84    | 4889     | 1.987 ug/l    |        | 91       |
| 25) 2-Butanone                | 4.574  | 43    | 1686     | 0.790 ug/l #  |        | 83       |
| 31) Cyclohexane               | 5.550  | 56    | 4902     | 1.202 ug/l #  |        | 43       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 16471    | 4.244 ug/l #  |        | 50       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 21483    | 5.184 ug/l #  |        | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 18677    | 2.479 ug/l #  |        | 92       |
| 48) Methyl methacrylate       | 7.604  | 41    | 5374     | 1.563 ug/l #  |        | 7        |
| 49) 1,4-Dioxane               | 7.812  | 88    | 153      | 1.993 ug/l #  |        | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 68372    | 14.236 ug/l # |        | 42       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 32588    | 6.859 ug/l #  |        | 70       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 19831    | 3.919 ug/l #  |        | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 253962   | 67.516 ug/l # |        | 42       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 90415    | 23.236 ug/l # |        | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 90415    | 65.443 ug/l # |        | 15       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041522\  
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Sample : N2394-08  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

Quant Time: Apr 16 02:27:40 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041222W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 12 22:07:23 2022  
Response via : Initial Calibration

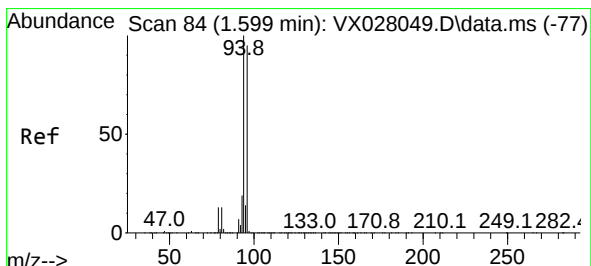
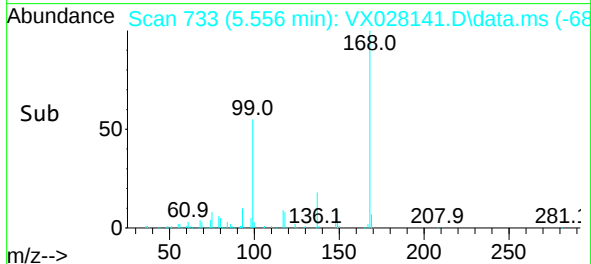
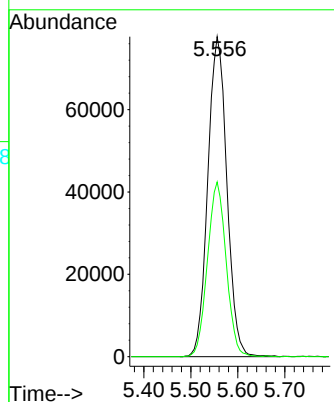
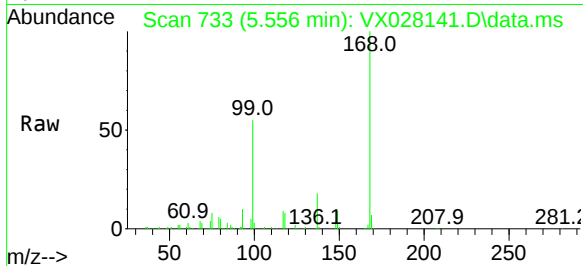




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

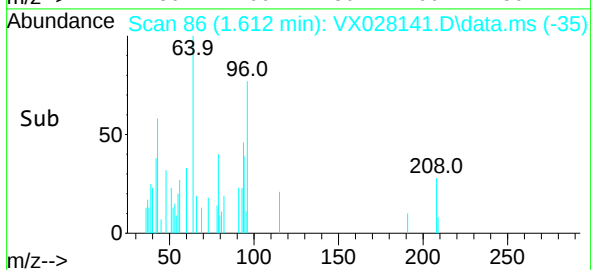
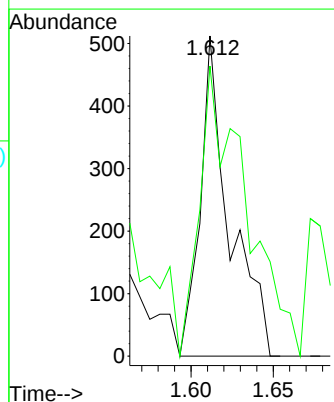
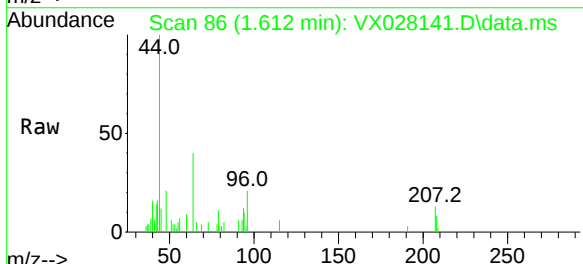
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

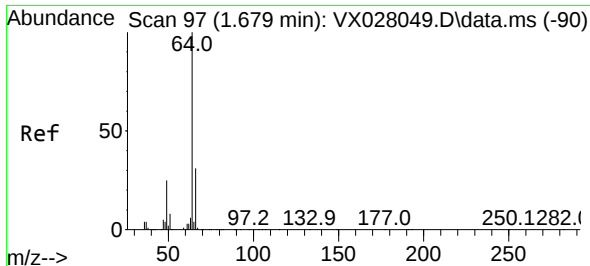
Tgt Ion:168 Resp: 218556  
Ion Ratio Lower Upper  
168 100  
99 54.6 41.7 62.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.612 min Scan# 86  
Delta R.T. 0.013 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 94 Resp: 632  
Ion Ratio Lower Upper  
94 100  
96 90.6 75.3 112.9

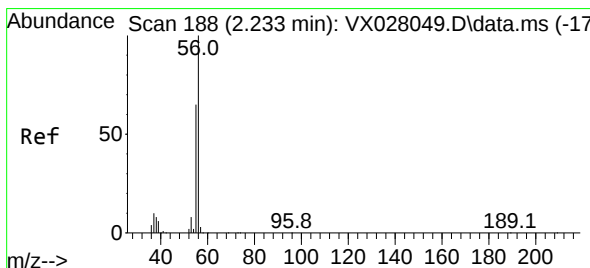
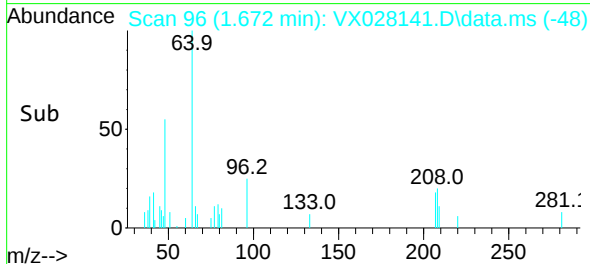
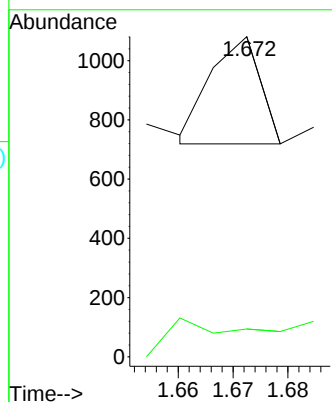
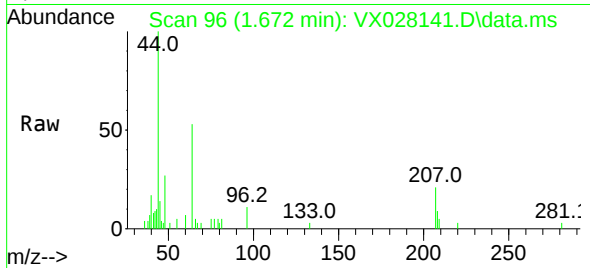




#6  
Chloroethane  
Concen: 2.695 ug/l  
RT: 1.672 min Scan# 90  
Delta R.T. -0.007 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

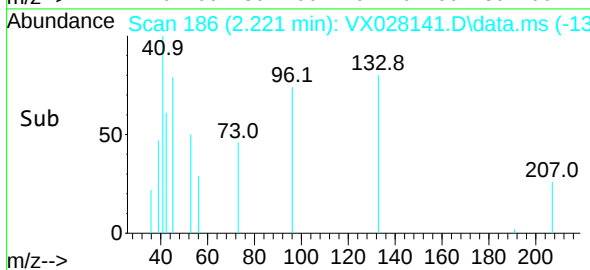
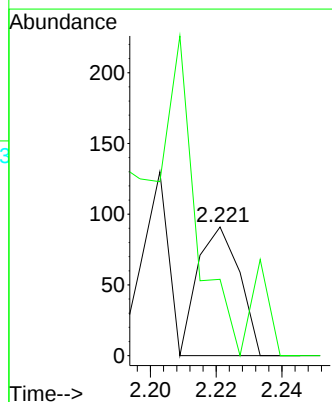
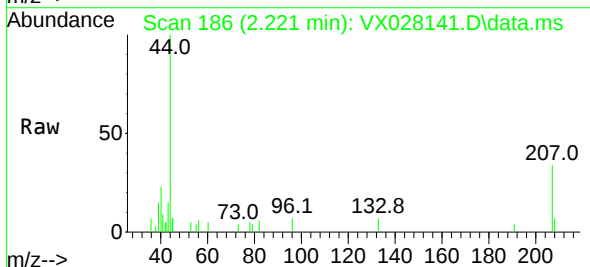
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

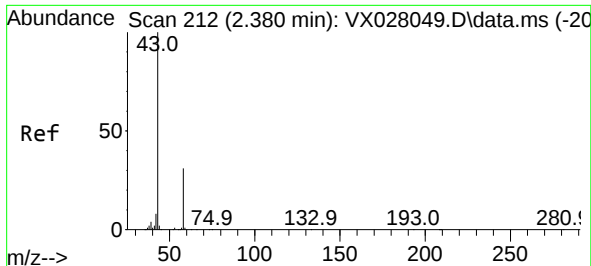
Tgt Ion: 64 Resp: 227  
Ion Ratio Lower Upper  
64 100  
66 2.5 25.3 37.9#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.221 min Scan# 186  
Delta R.T. -0.012 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 56 Resp: 81  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.0 82.6#

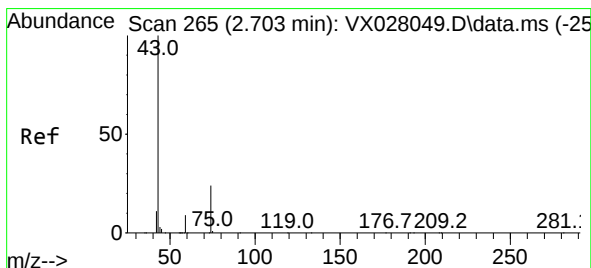
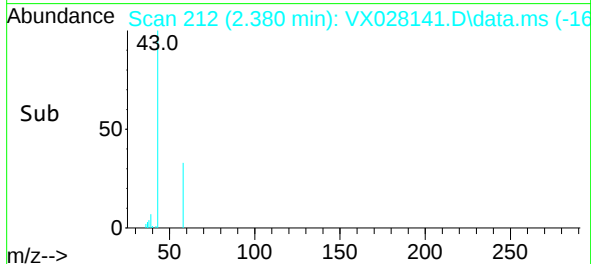
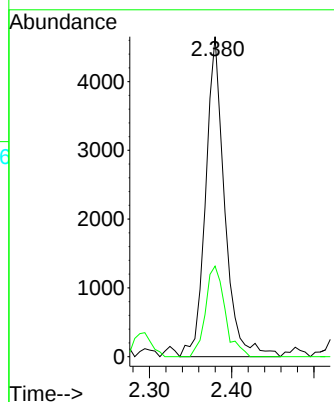
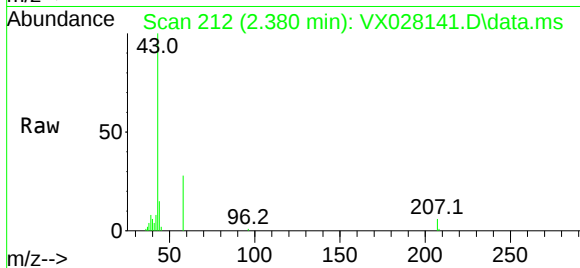




#16  
Acetone  
Concen: 6.035 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

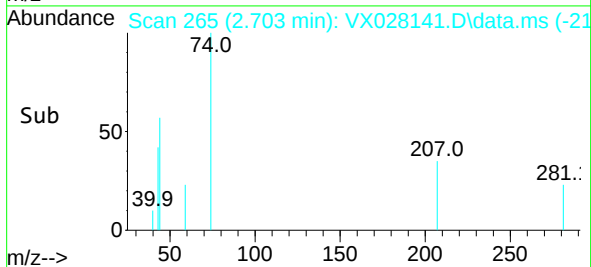
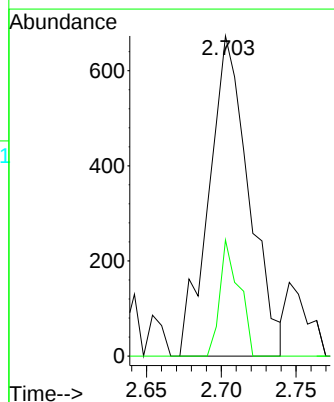
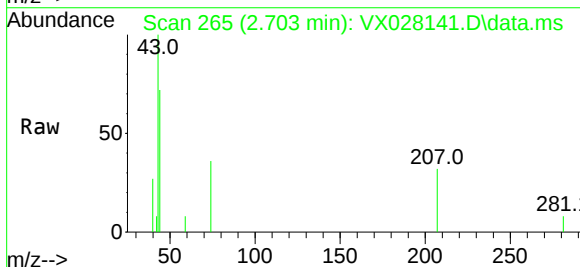
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

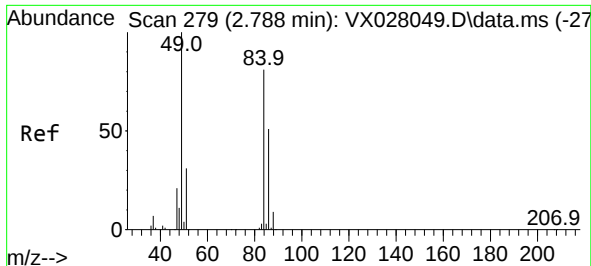
Tgt Ion: 43 Resp: 7455  
Ion Ratio Lower Upper  
43 100  
58 28.3 28.8 43.2#



#18  
Methyl Acetate  
Concen: 0.381 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

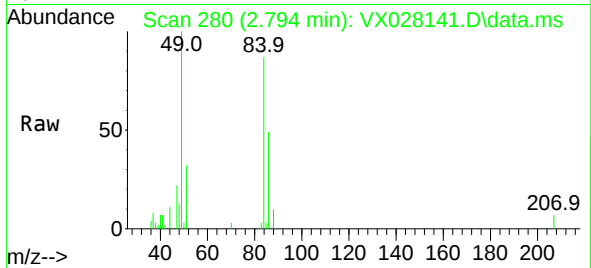
Tgt Ion: 43 Resp: 1255  
Ion Ratio Lower Upper  
43 100  
74 17.4 22.8 34.2#



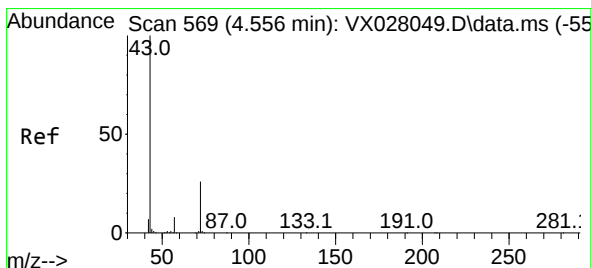
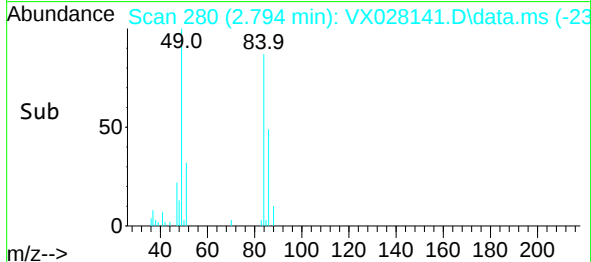
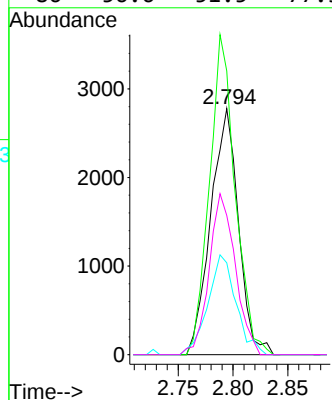


#20  
Methylene Chloride  
Concen: 1.987 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

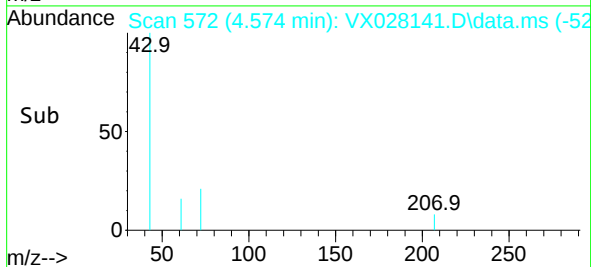
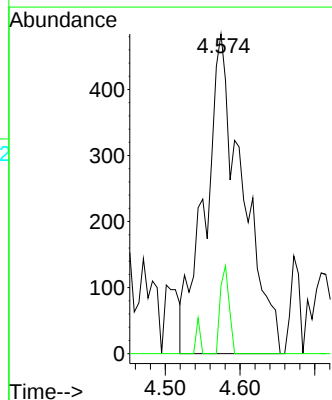
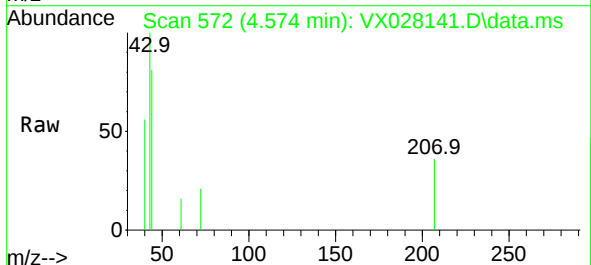


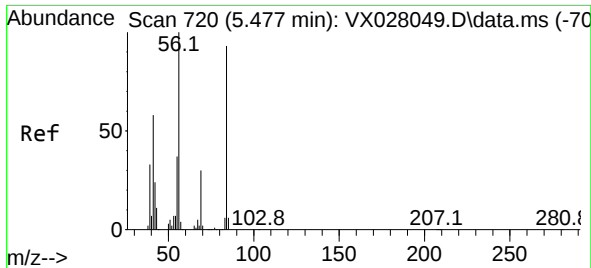
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 4889  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.3 | 85.5  | 128.3 |
| 51       | 37.3  | 26.6  | 39.8  |
| 86       | 56.6  | 51.5  | 77.3  |



#25  
2-Butanone  
Concen: 0.790 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.018 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1686  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.3  | 24.4  | 36.6# |

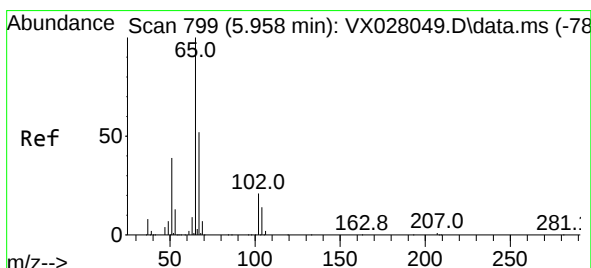
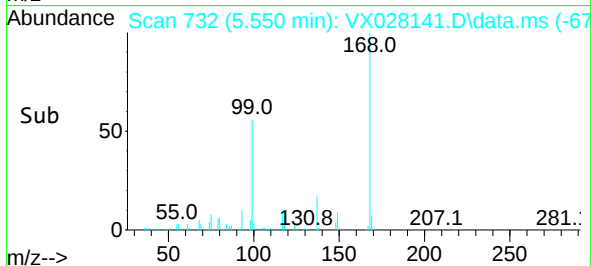
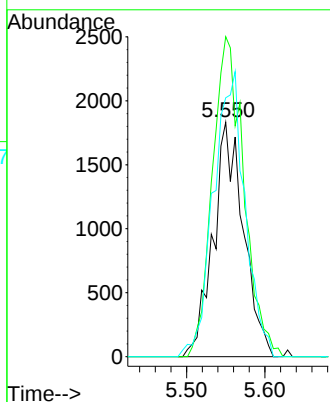
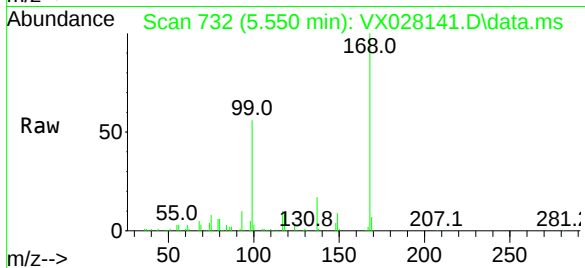




#31  
Cyclohexane  
Concen: 1.202 ug/l  
RT: 5.550 min Scan# 712  
Delta R.T. 0.073 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

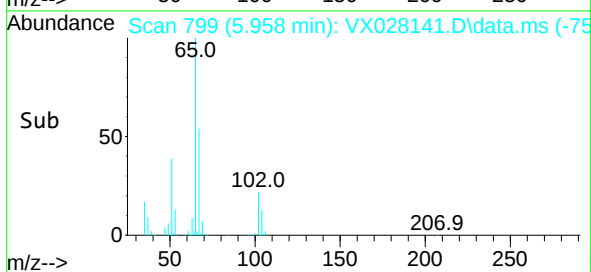
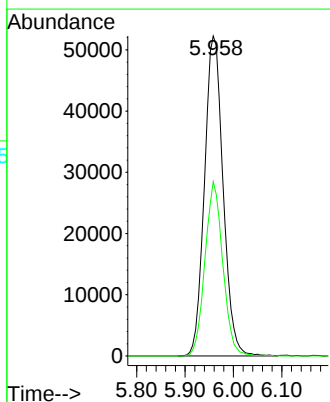
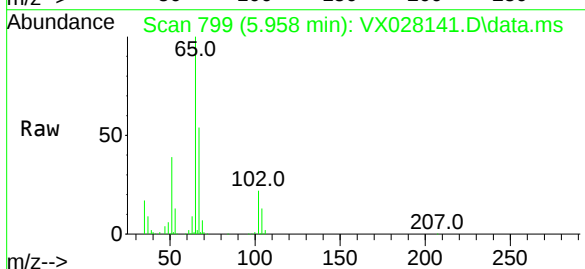
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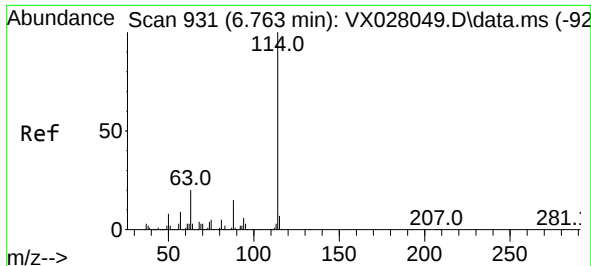
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Ion Ratio Lower Upper  
56 100  
69 136.5 26.7 40.1#  
84 110.4 77.2 115.8



#33  
1,2-Dichloroethane-d4  
Concen: 47.213 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 65 Resp: 139991  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 107.4

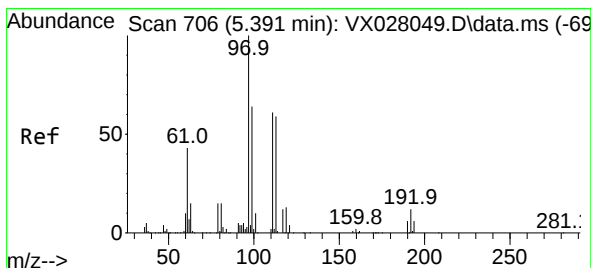
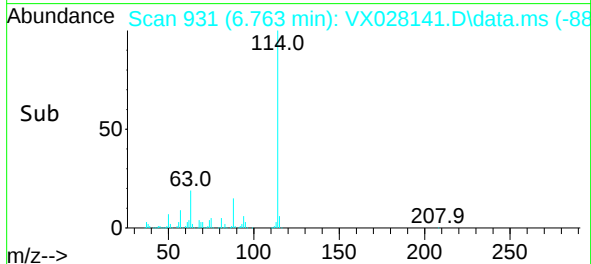
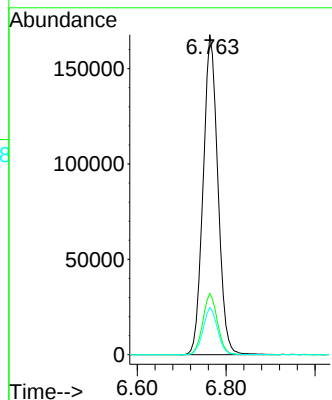
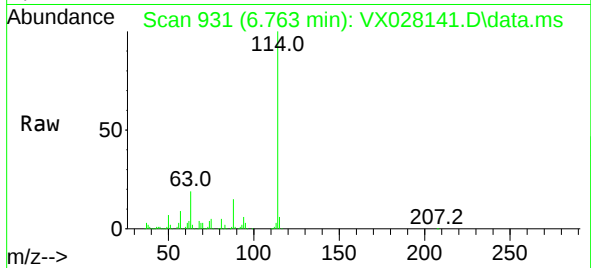




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

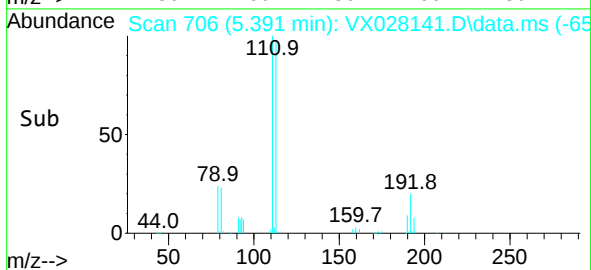
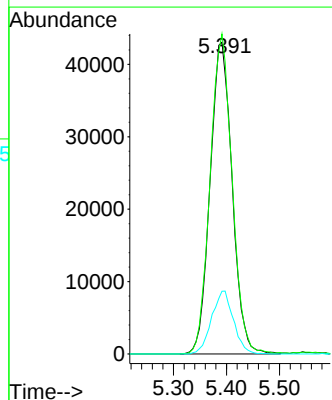
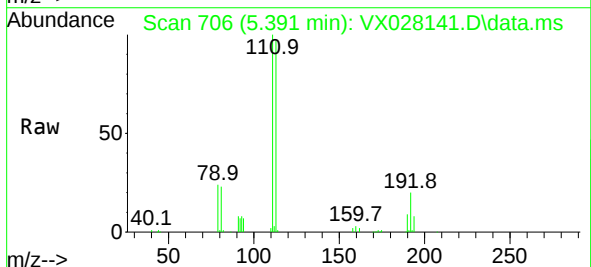
Instrument :  
MSVOA\_X  
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CS-4-SOIL-PILE

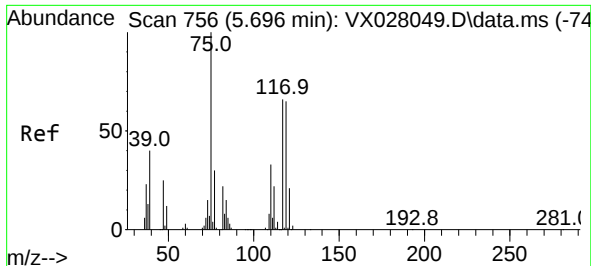
Tgt Ion:114 Resp: 388109  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 36.8  
88 14.7 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 48.918 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion:113 Resp: 124406  
Ion Ratio Lower Upper  
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111 102.1 82.8 124.2  
192 20.0 16.9 25.3

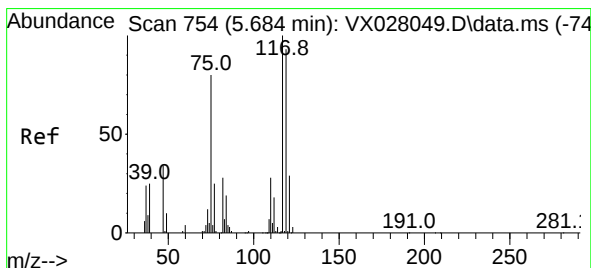
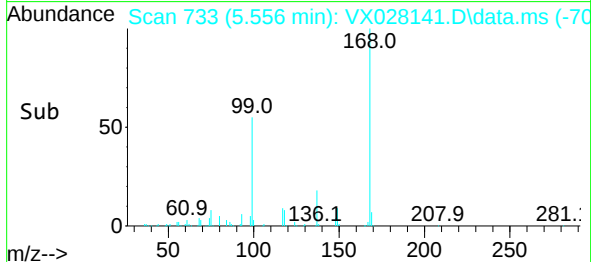
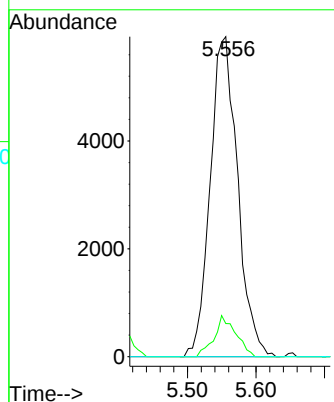
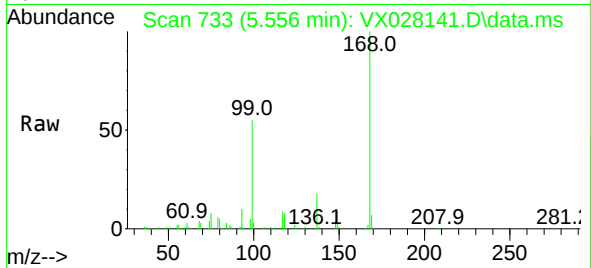




#36  
1,1-Dichloropropene  
Concen: 4.244 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

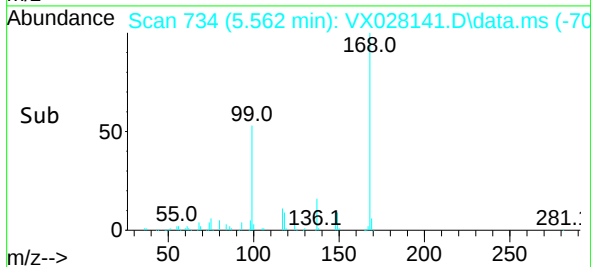
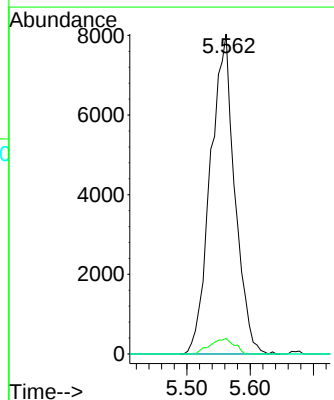
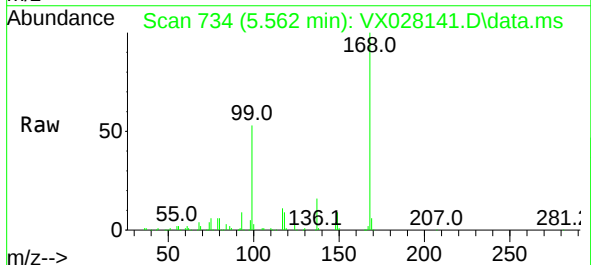
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

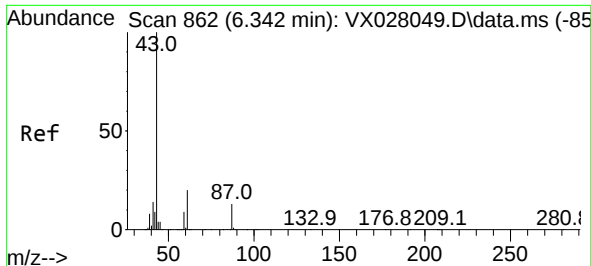
Tgt Ion: 75 Resp: 16471  
Ion Ratio Lower Upper  
75 100  
110 10.1 18.3 54.8#  
77 0.0 24.8 37.2#



#38  
Carbon Tetrachloride  
Concen: 5.184 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.122 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 117 Resp: 21483  
Ion Ratio Lower Upper  
117 100  
119 4.8 77.3 115.9#  
121 0.0 24.2 36.2#

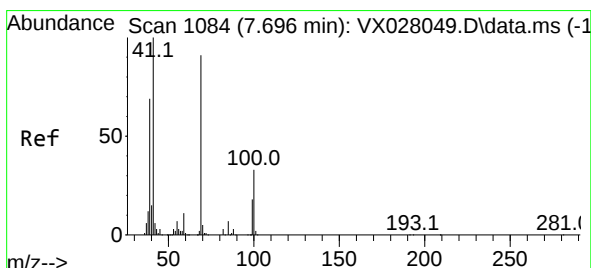
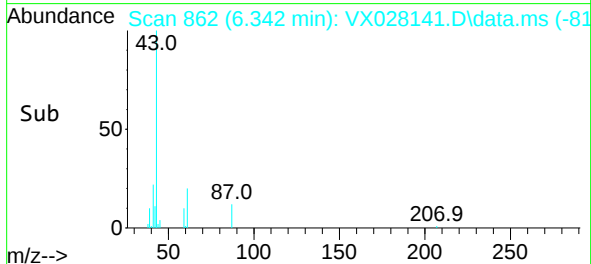
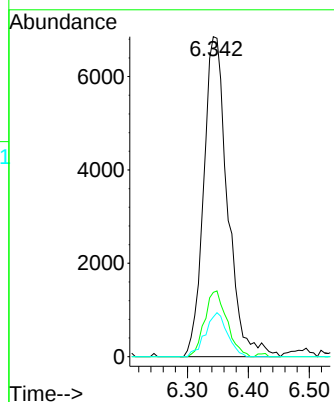
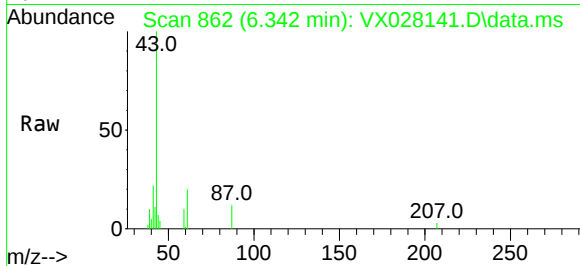




#43  
Isopropyl Acetate  
Concen: 2.479 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

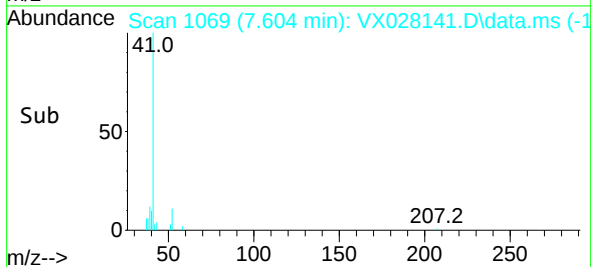
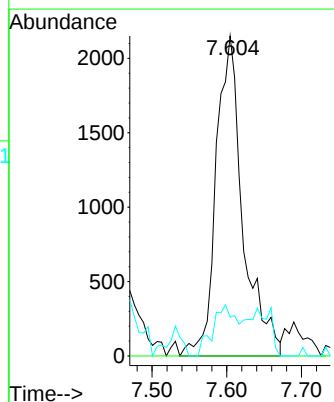
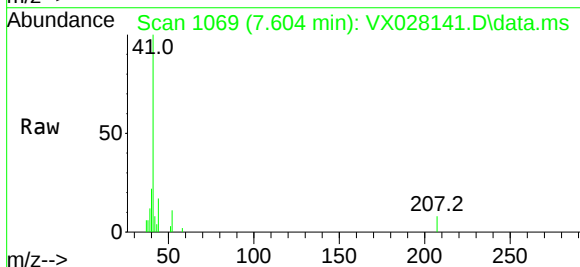
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

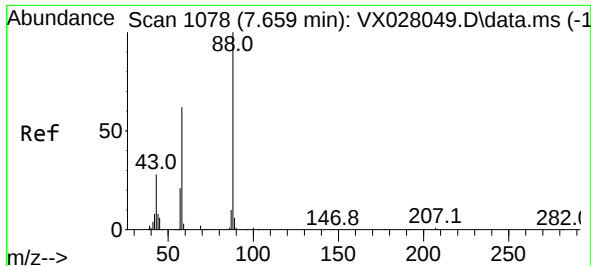
Tgt Ion: 43 Resp: 18677  
Ion Ratio Lower Upper  
43 100  
61 19.2 18.5 27.7  
87 12.6 13.0 19.6#



#48  
Methyl methacrylate  
Concen: 1.563 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.092 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 41 Resp: 5374  
Ion Ratio Lower Upper  
41 100  
69 0.0 82.5 123.7#  
39 0.0 43.8 65.8#





#49

1,4-Dioxane

Concen: 1.993 ug/l

RT: 7.812 min Scan# 1103

Delta R.T. 0.153 min

Lab File: VX028141.D

Acq: 15 Apr 2022 18:19

Instrument :

MSVOA\_X

ClientSampleId :

CS-4-SOIL-PILE

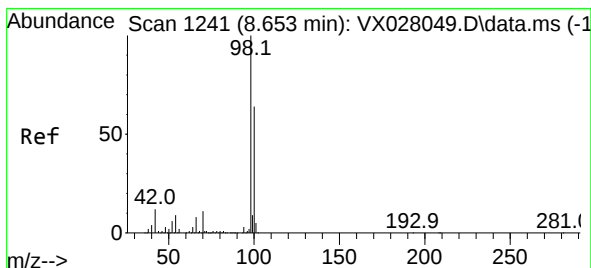
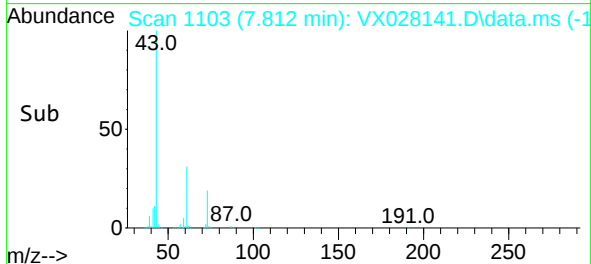
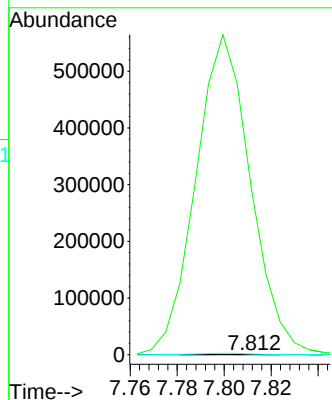
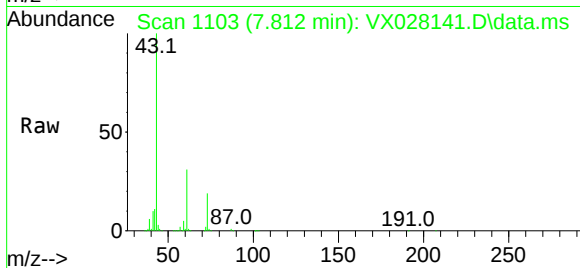
Tgt Ion: 88 Resp: 153

Ion Ratio Lower Upper

88 100

43 603234.0 21.9 32.9#

58 2752.3 53.7 80.5#



#50

Toluene-d8

Concen: 50.611 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX028141.D

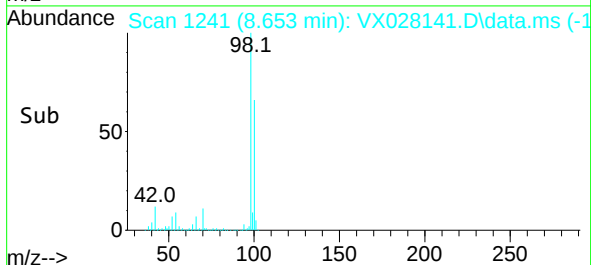
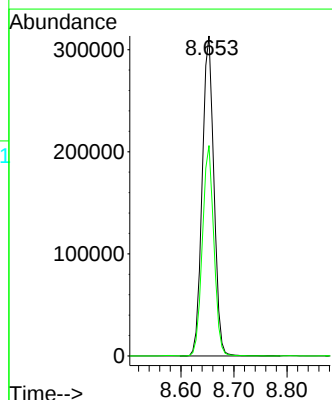
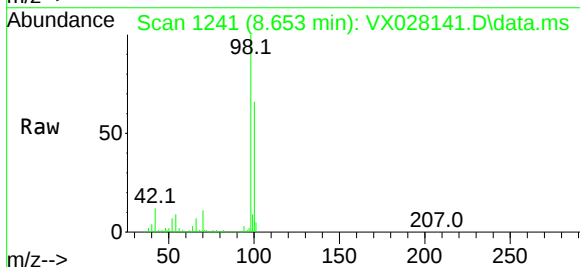
Acq: 15 Apr 2022 18:19

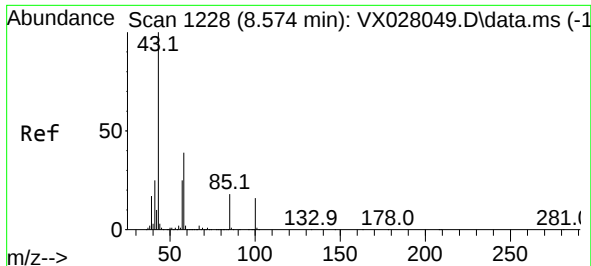
Tgt Ion: 98 Resp: 480042

Ion Ratio Lower Upper

98 100

100 64.8 52.6 78.8

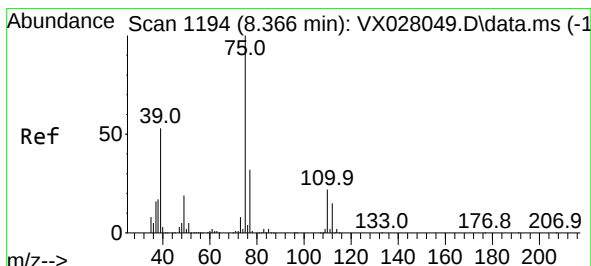
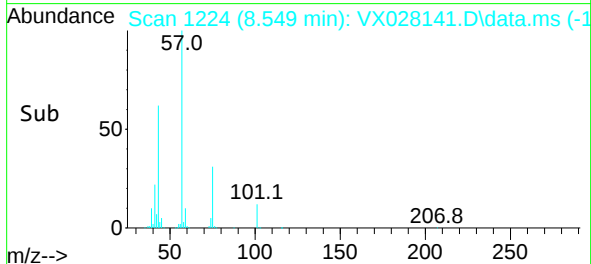
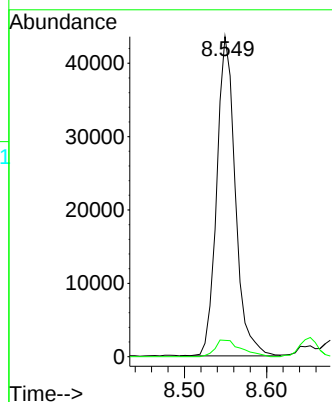
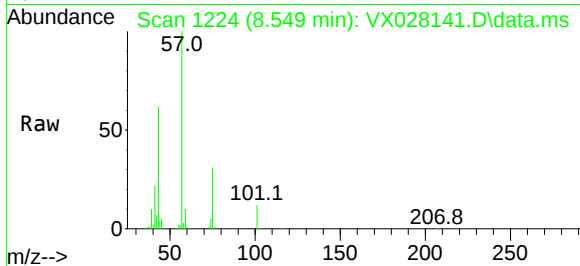




#51  
 4-Methyl-2-Pentanone  
 Concen: 14.236 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. -0.025 min  
 Lab File: VX028141.D  
 Acq: 15 Apr 2022 18:19

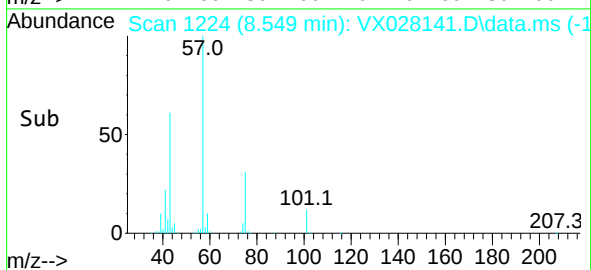
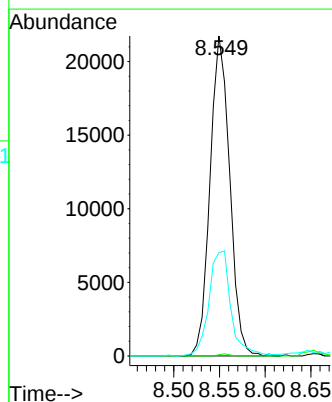
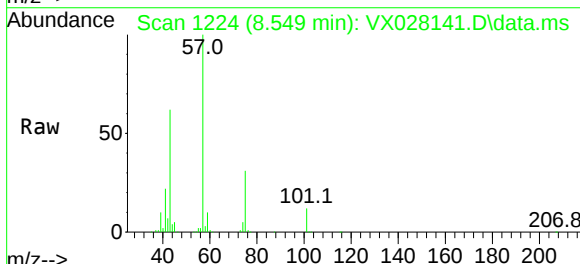
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CS-4-SOIL-PILE

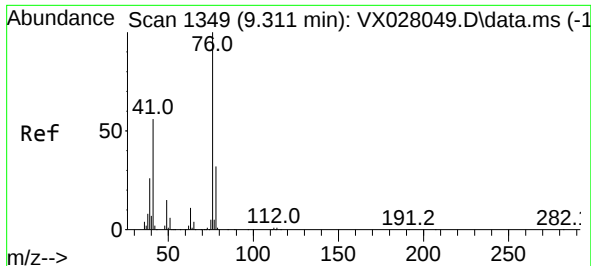
Tgt Ion: 43 Resp: 68372  
 Ion Ratio Lower Upper  
 43 100  
 58 7.2 36.1 54.1#



#54  
 cis-1,3-Dichloropropene  
 Concen: 6.859 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX028141.D  
 Acq: 15 Apr 2022 18:19

Tgt Ion: 75 Resp: 32588  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 24.8 37.2#  
 39 32.3 29.6 44.4





#57

1,3-Dichloropropane

Concen: 3.919 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX028141.D

Acq: 15 Apr 2022 18:19

Instrument :

MSVOA\_X

ClientSampleId :

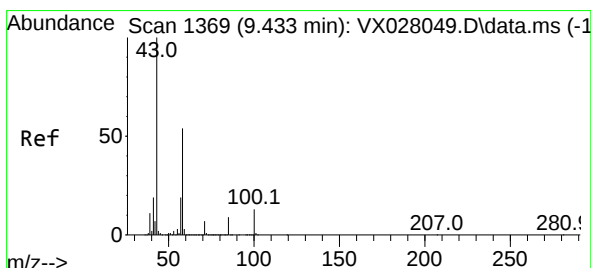
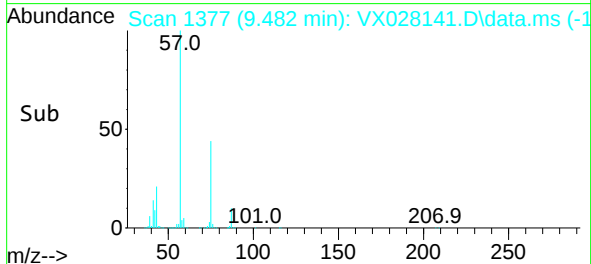
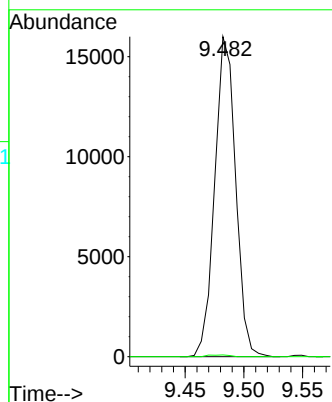
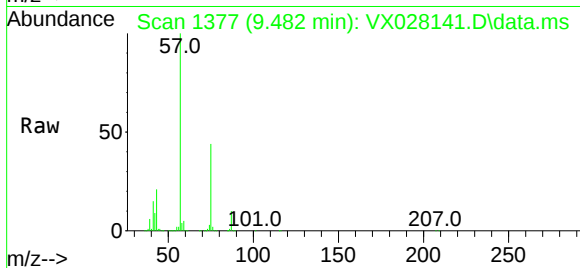
CS-4-SOIL-PILE

Tgt Ion: 76 Resp: 19831

Ion Ratio Lower Upper

76 100

78 0.5 25.8 38.8#



#59

2-Hexanone

Concen: 67.516 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX028141.D

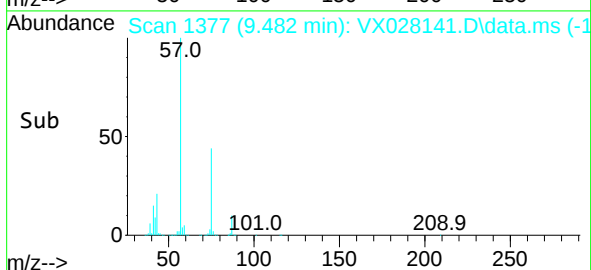
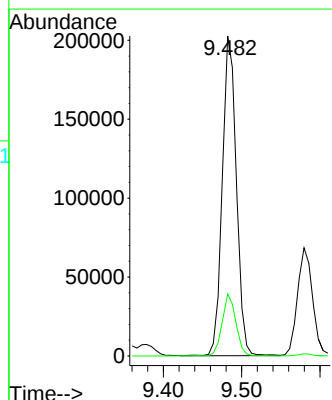
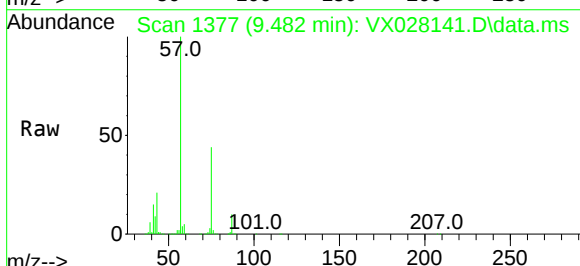
Acq: 15 Apr 2022 18:19

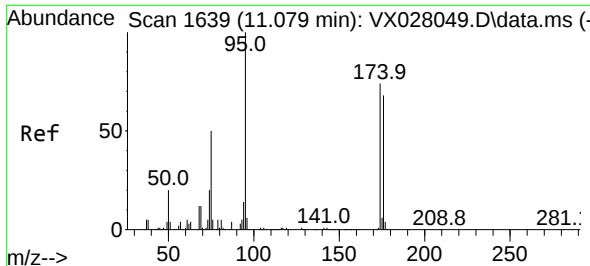
Tgt Ion: 43 Resp: 253962

Ion Ratio Lower Upper

43 100

58 18.9 31.9 95.7#

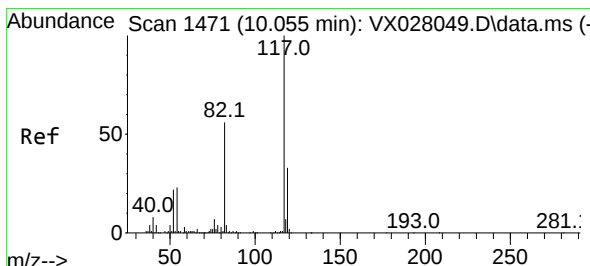
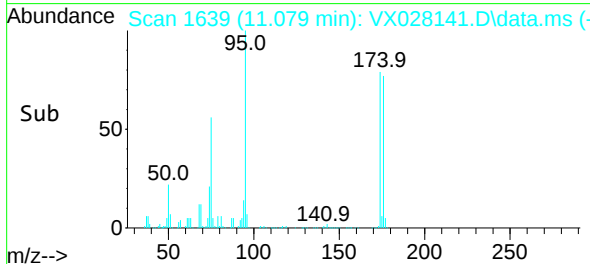
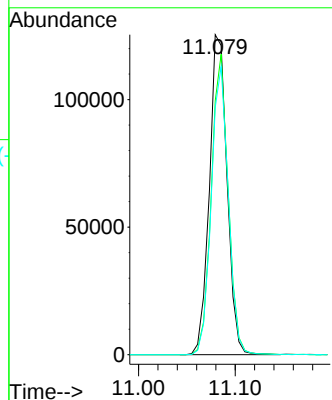
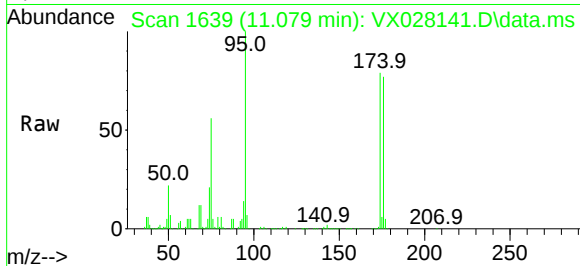




#62  
4-Bromofluorobenzene  
Concen: 45.210 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

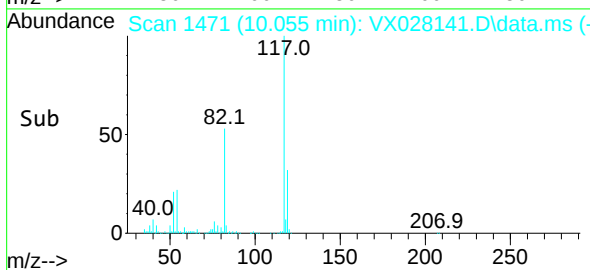
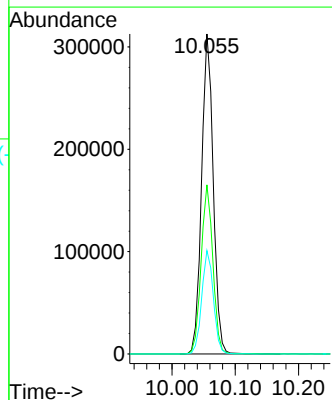
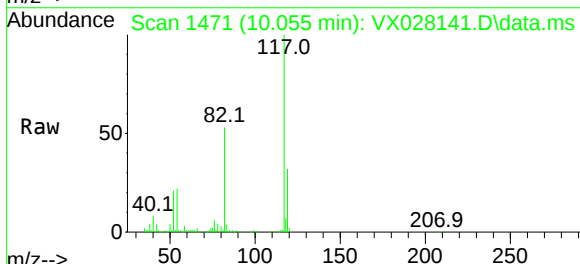
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

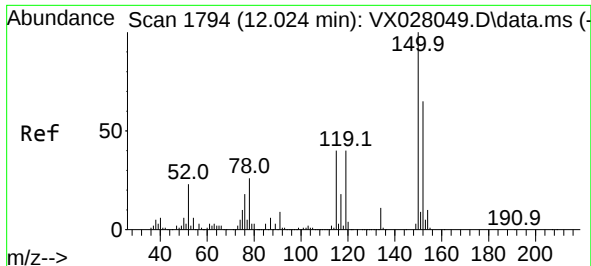
Tgt Ion: 95 Resp: 160108  
Ion Ratio Lower Upper  
95 100  
174 89.2 0.0 163.0  
176 86.8 0.0 155.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 117 Resp: 401806  
Ion Ratio Lower Upper  
117 100  
82 52.8 41.8 62.8  
119 32.3 24.8 37.2

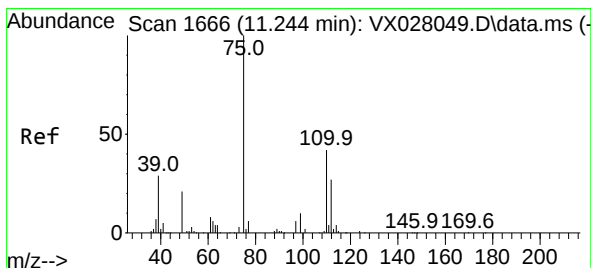
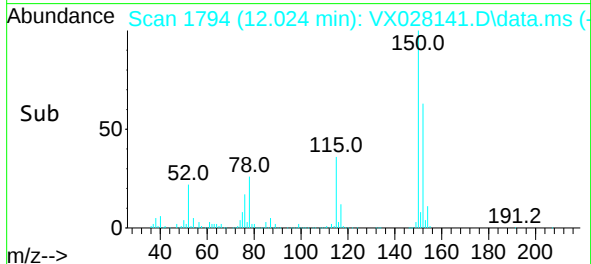
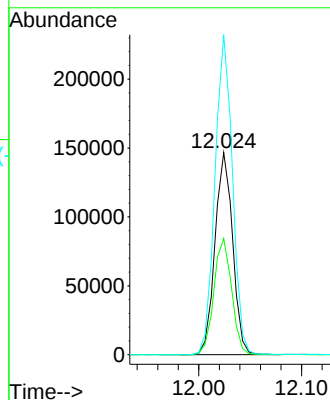
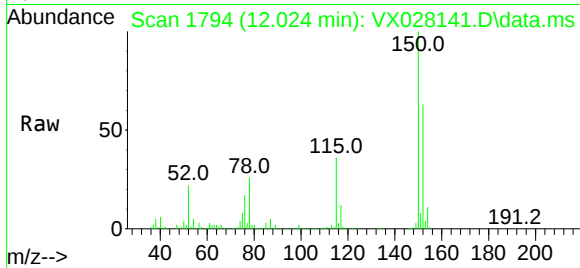




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

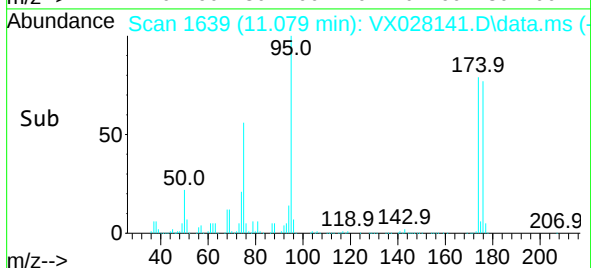
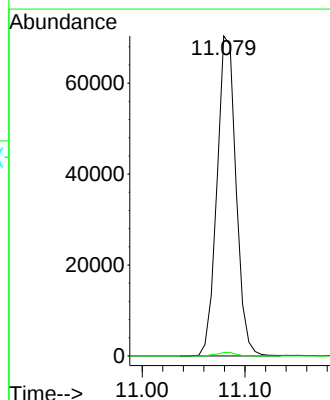
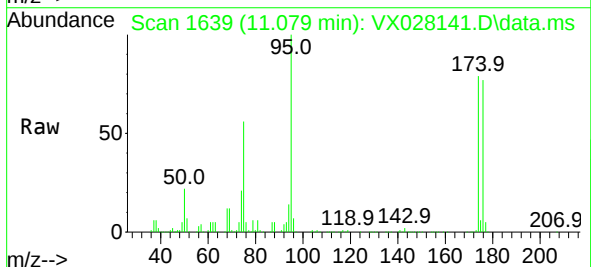
Instrument :  
MSVOA\_X  
ClientSampleId :  
CS-4-SOIL-PILE

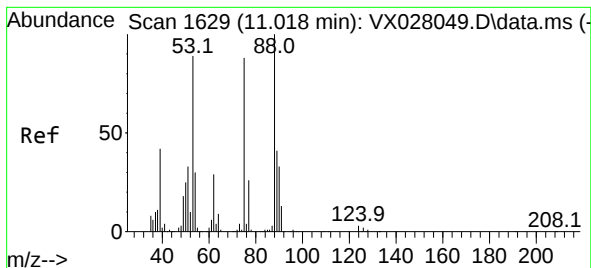
Tgt Ion:152 Resp: 174787  
Ion Ratio Lower Upper  
152 100  
115 57.8 37.5 112.7  
150 156.5 0.0 338.2



#76  
1,2,3-Trichloropropane  
Concen: 23.236 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX028141.D  
Acq: 15 Apr 2022 18:19

Tgt Ion: 75 Resp: 90415  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.443 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX028141.D  
 Acq: 15 Apr 2022 18:19

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CS-4-SOIL-PILE

Tgt Ion: 75 Resp: 90415  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.1 37.0 55.6#

