

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041825\  
 Data File : VX045851.D  
 Acq On : 18 Apr 2025 12:37  
 Operator : JC/MD  
 Sample : Q1826-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SOIL-PILE

Quant Time: Apr 18 23:37:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 02 03:11:43 2025  
 Response via : Initial Calibration

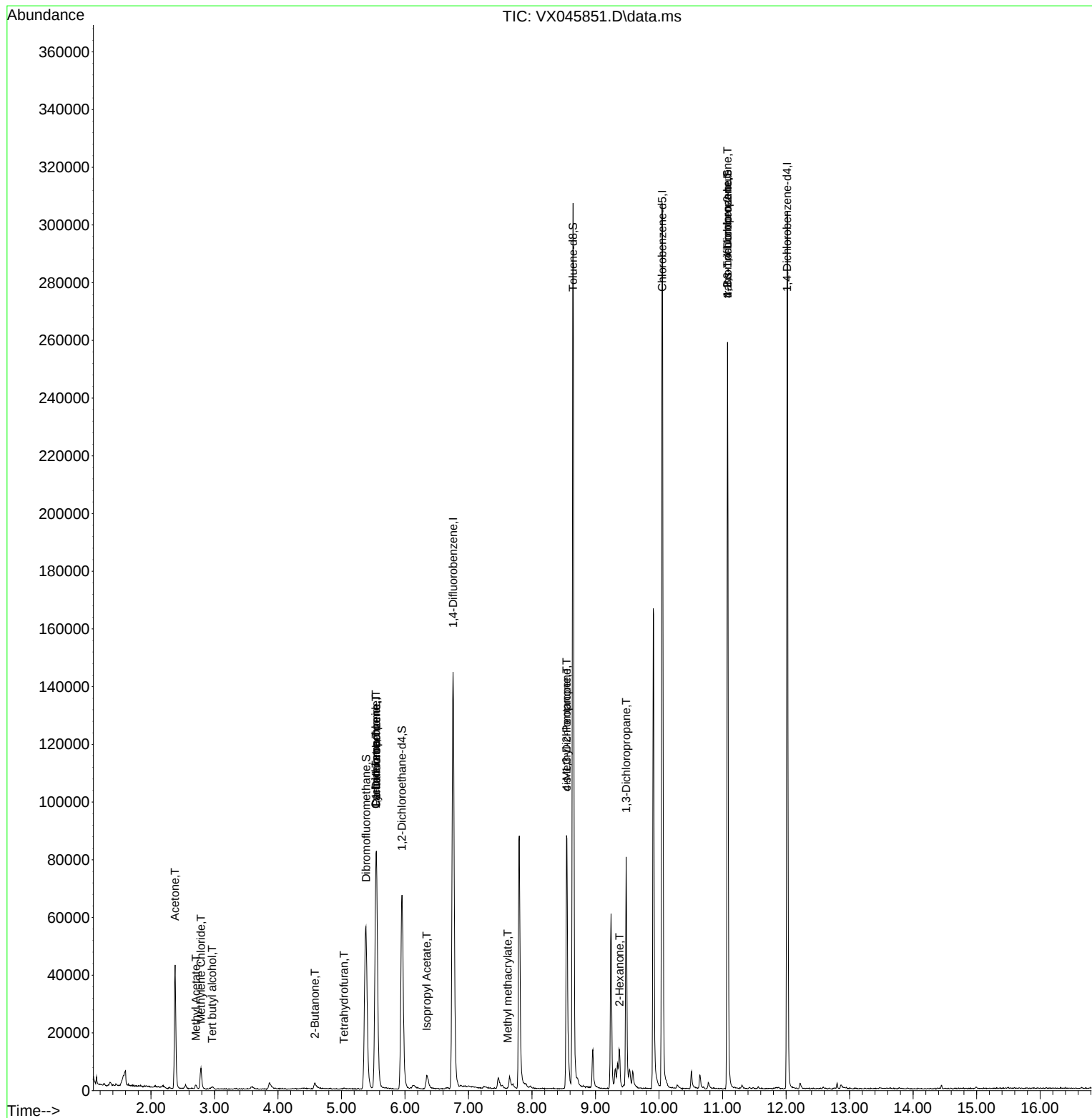
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.549          | 168  | 70651               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.756          | 114  | 140581              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 130200              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 55543               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 69973               | 54.158 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 108.320% |        |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 50064               | 50.193 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.380% |        |        |          |
| 50) Toluene-d8                | 8.646          | 98   | 175626              | 50.447 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 100.900% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 67227               | 53.014 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 106.020% |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 11) Tert butyl alcohol        | 2.964          | 59   | 749                 | 4.314  | ug/l # | 72       |
| 16) Acetone                   | 2.379          | 43   | 45920               | 86.553 | ug/l   | 100      |
| 18) Methyl Acetate            | 2.708          | 43   | 2097                | 1.717  | ug/l   | 94       |
| 20) Methylene Chloride        | 2.788          | 84   | 3066                | 3.087  | ug/l   | 97       |
| 25) 2-Butanone                | 4.580          | 43   | 5008                | 6.449  | ug/l   | 99       |
| 29) Tetrahydrofuran           | 5.037          | 42   | 132                 | 0.262  | ug/l # | 42       |
| 31) Cyclohexane               | 5.543          | 56   | 2086                | 1.316  | ug/l # | 50       |
| 36) 1,1-Dichloropropene       | 5.543          | 75   | 7076                | 5.254  | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.543          | 117  | 8267                | 5.680  | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 7217                | 2.806  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.616          | 41   | 352                 | 0.265  | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.543          | 43   | 37586               | 22.042 | ug/l # | 47       |
| 54) cis-1,3-Dichloropropene   | 8.543          | 75   | 13653               | 9.235  | ug/l # | 64       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 663                 | 0.384  | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 11206               | 8.874  | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 39032               | 28.810 | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 39032               | 97.776 | ug/l # | 1        |
| -----                         |                |      |                     |        |        |          |

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

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Instrument :  
MSVOA\_X  
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Quant Time: Apr 18 23:37:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 02 03:11:43 2025  
Response via : Initial Calibration

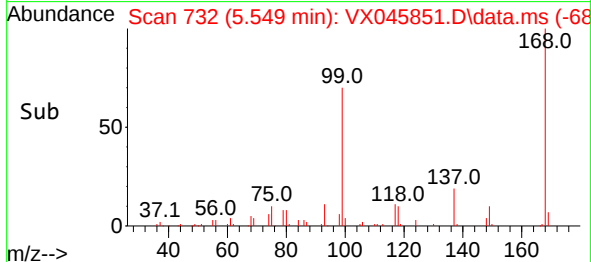
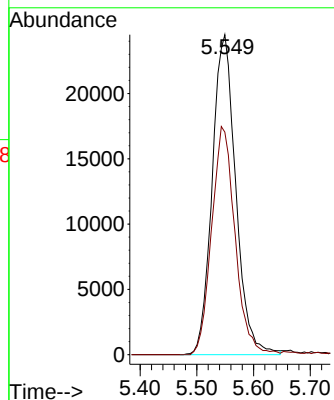
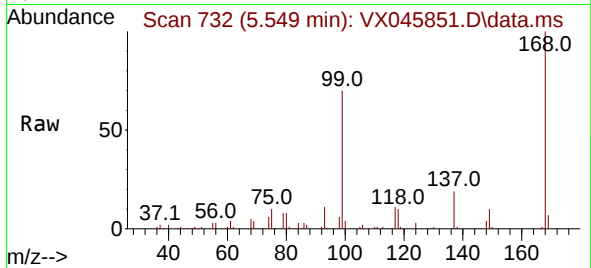




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

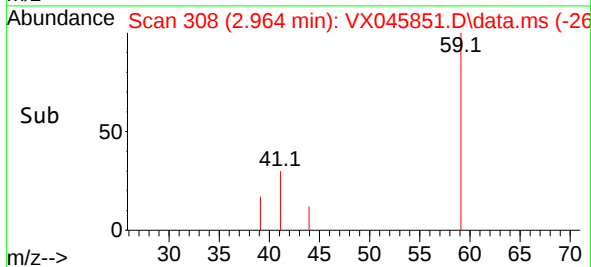
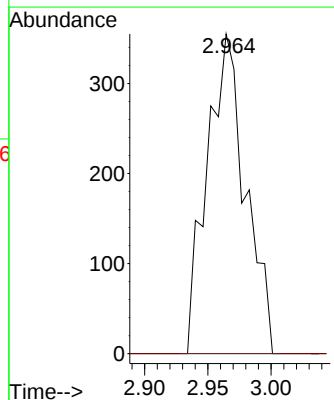
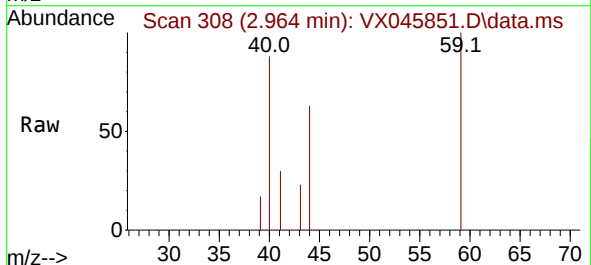
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-PILE

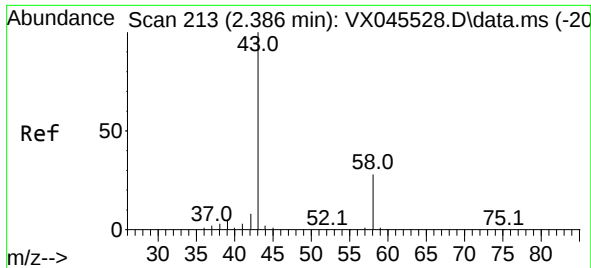
Tgt Ion:168 Resp: 70651  
Ion Ratio Lower Upper  
168 100  
99 69.6 52.3 78.5



#11  
Tert butyl alcohol  
Concen: 4.314 ug/l  
RT: 2.964 min Scan# 308  
Delta R.T. -0.013 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

Tgt Ion: 59 Resp: 749  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#





#16

Acetone

Concen: 86.553 ug/l

RT: 2.379 min Scan# 213

Delta R.T. -0.007 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

Instrument :

MSVOA\_X

ClientSampleId :

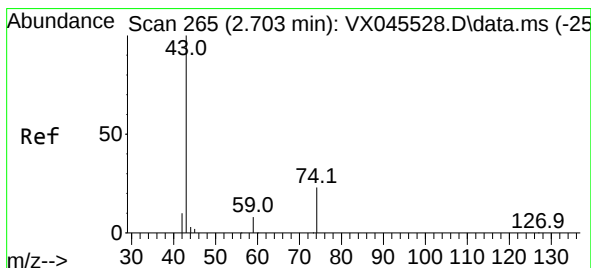
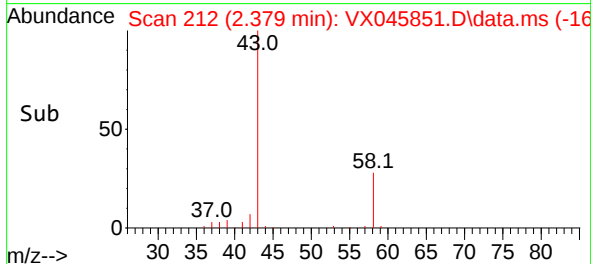
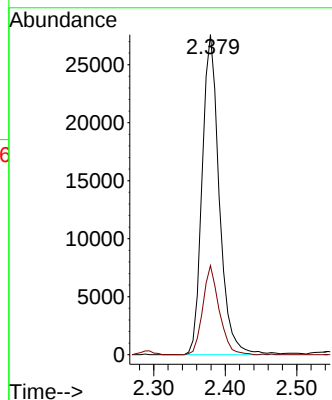
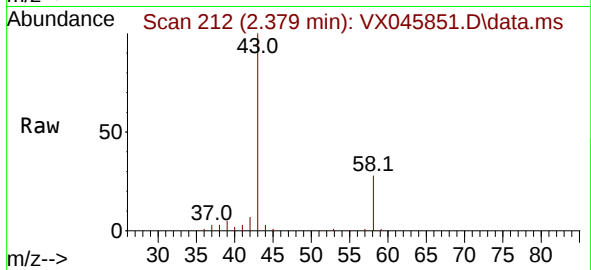
SOIL-PILE

Tgt Ion: 43 Resp: 45920

Ion Ratio Lower Upper

43 100

58 27.9 22.3 33.5



#18

Methyl Acetate

Concen: 1.717 ug/l

RT: 2.708 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045851.D

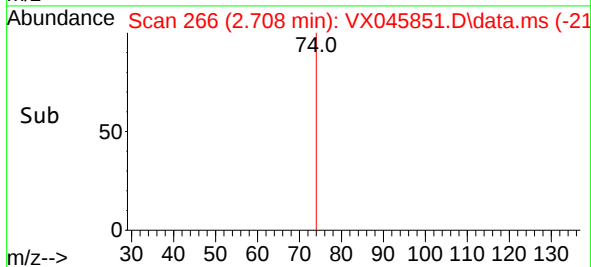
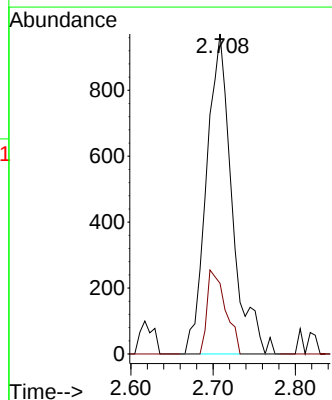
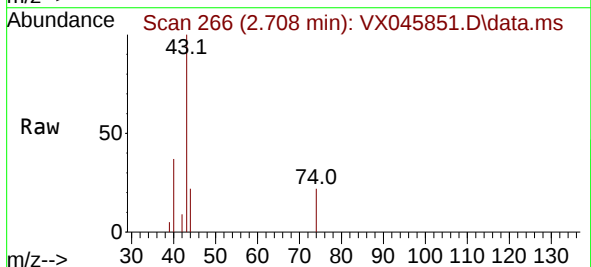
Acq: 18 Apr 2025 12:37

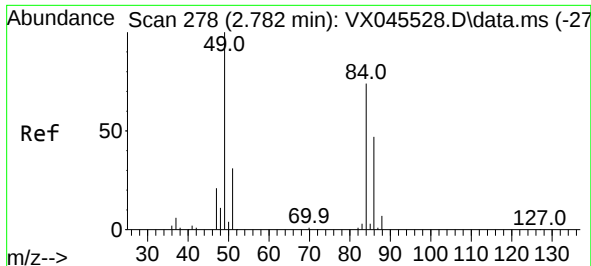
Tgt Ion: 43 Resp: 2097

Ion Ratio Lower Upper

43 100

74 18.9 17.5 26.3

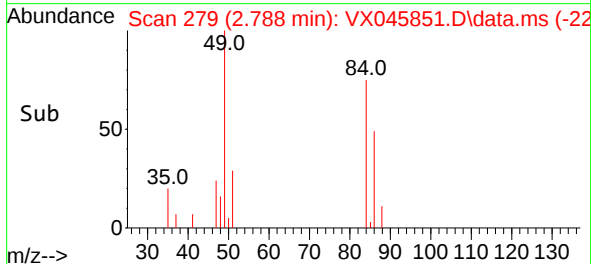
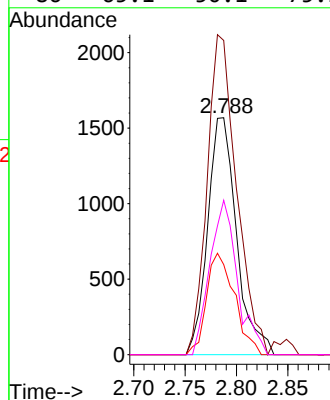
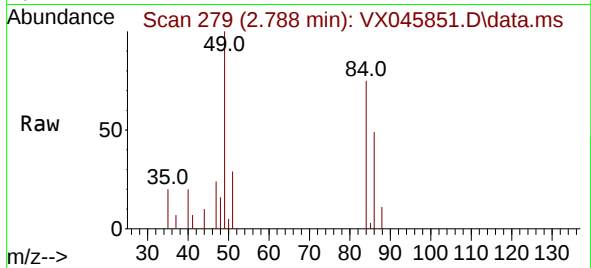




#20  
Methylene Chloride  
Concen: 3.087 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

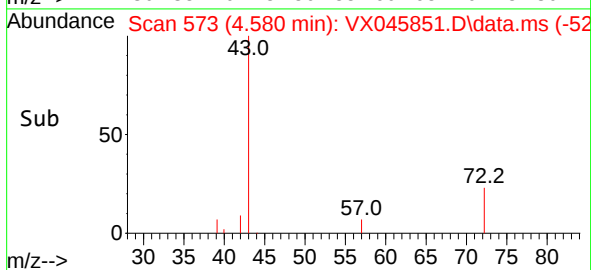
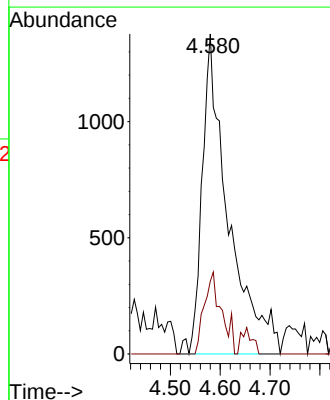
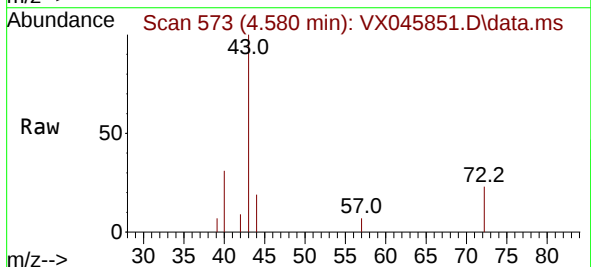
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-PILE

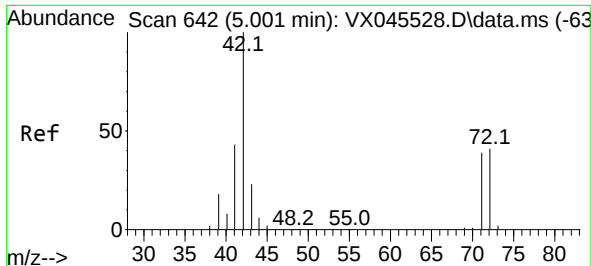
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3066  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 132.6 | 107.5 | 161.3 |
| 51       | 38.0  | 33.0  | 49.6  |
| 86       | 65.1  | 50.1  | 75.1  |



#25  
2-Butanone  
Concen: 6.449 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.024 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5008  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.7  | 18.6  | 28.0  |





#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 5.037 min Scan# 64

Delta R.T. 0.036 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

Instrument :

MSVOA\_X

ClientSampleId :

SOIL-PILE

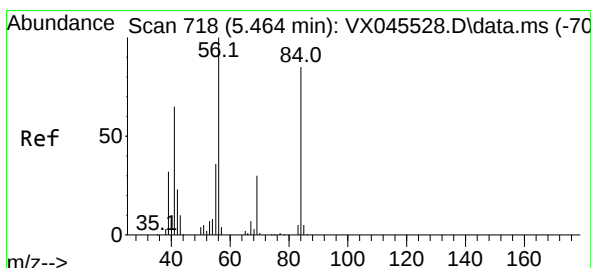
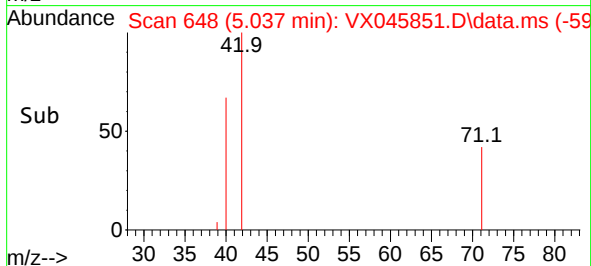
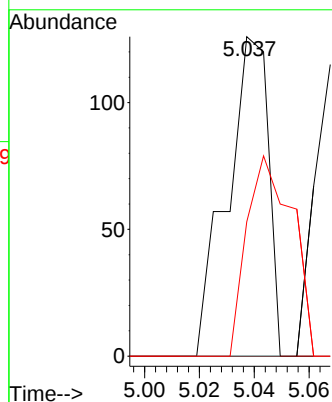
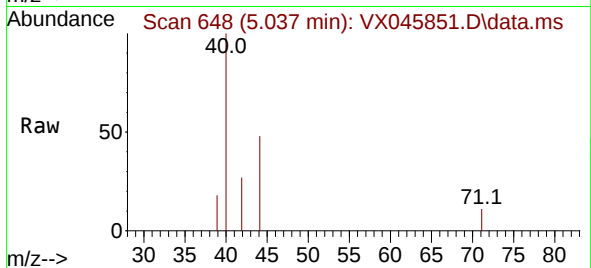
Tgt Ion: 42 Resp: 132

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

71 68.9 31.4 47.0#



#31

Cyclohexane

Concen: 1.316 ug/l

RT: 5.543 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

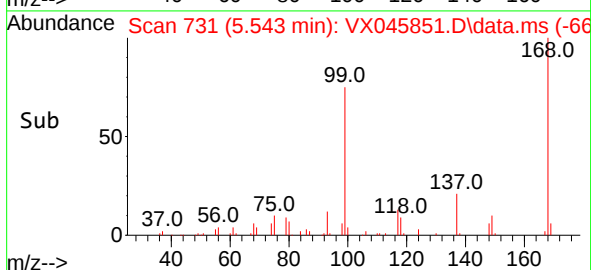
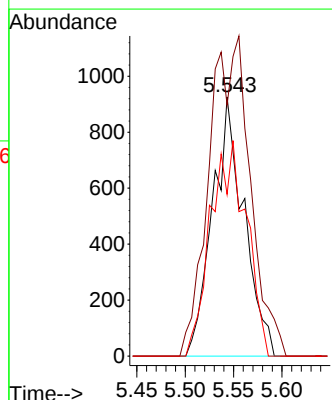
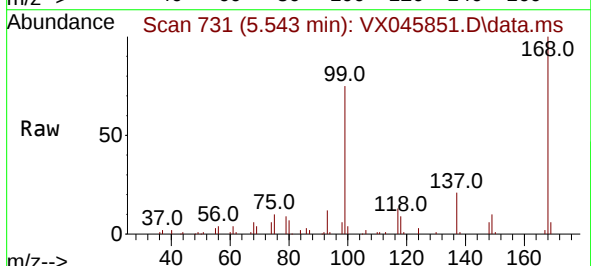
Tgt Ion: 56 Resp: 2086

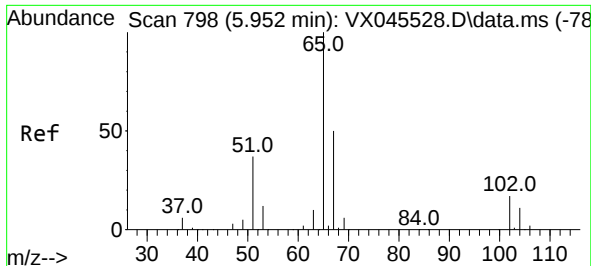
Ion Ratio Lower Upper

56 100

69 96.9 23.6 35.4#

84 62.4 67.7 101.5#





#33

1,2-Dichloroethane-d4

Concen: 54.158 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

Instrument :

MSVOA\_X

ClientSampleId :

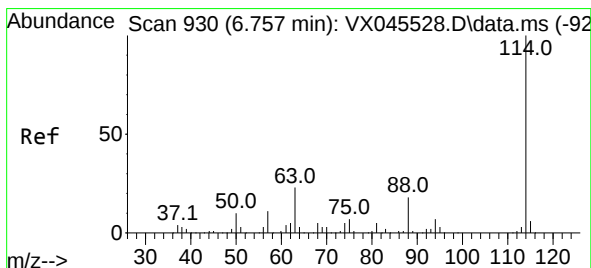
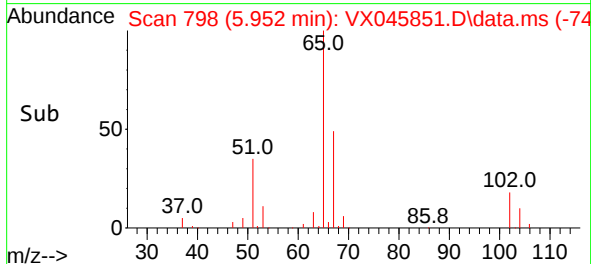
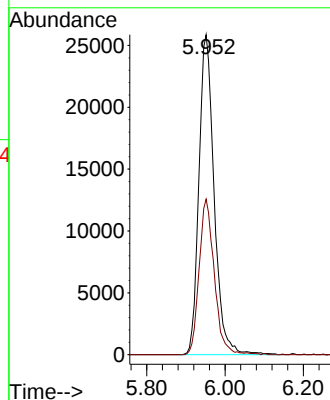
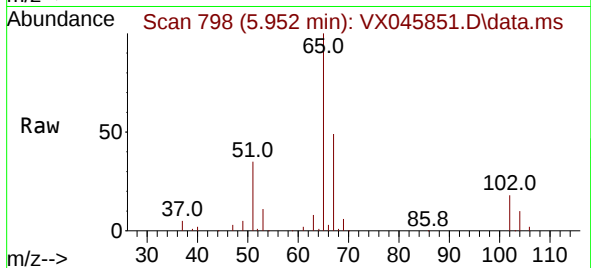
SOIL-PILE

Tgt Ion: 65 Resp: 69973

Ion Ratio Lower Upper

65 100

67 48.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.756 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

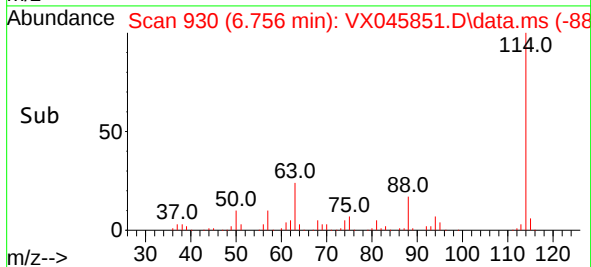
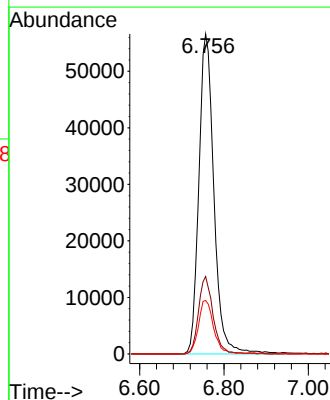
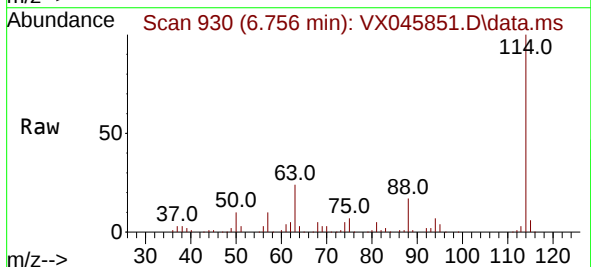
Tgt Ion: 114 Resp: 140581

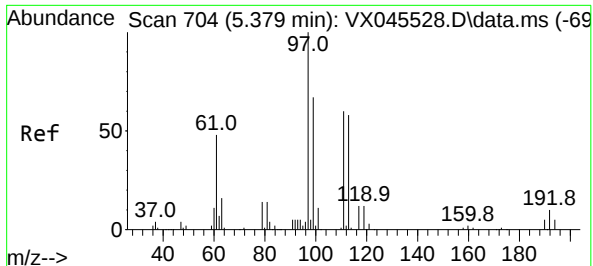
Ion Ratio Lower Upper

114 100

63 24.2 0.0 46.8

88 16.7 0.0 35.4

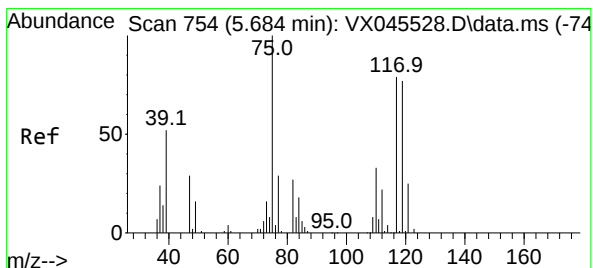
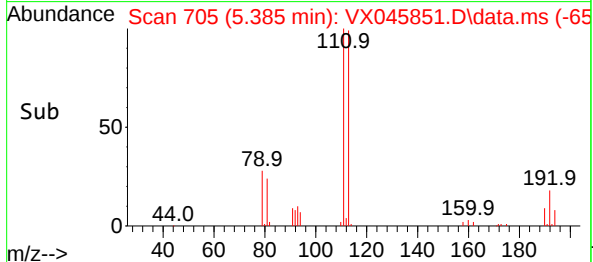
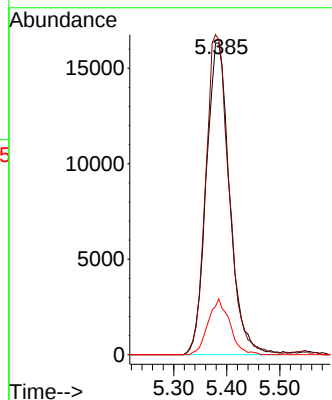
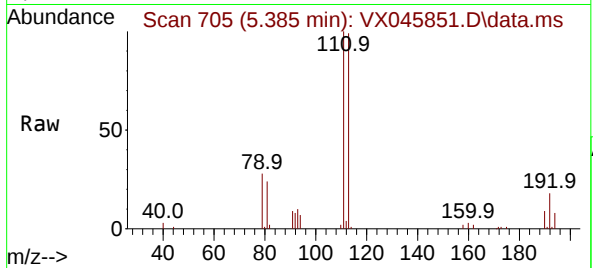




#35  
Dibromofluoromethane  
Concen: 50.193 ug/l  
RT: 5.385 min Scan# 704  
Delta R.T. 0.006 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

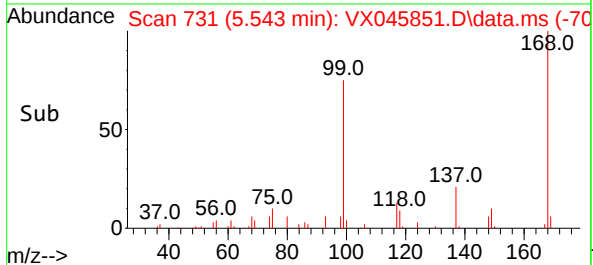
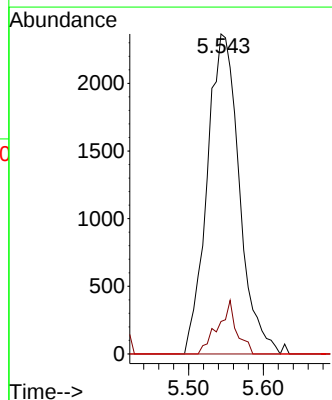
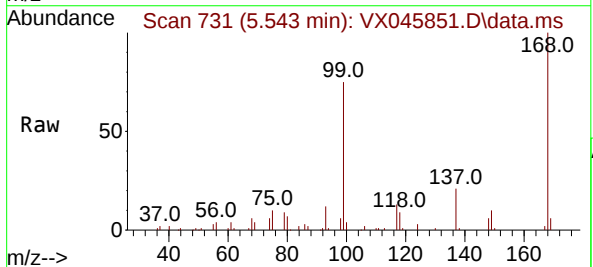
Instrument :  
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ClientSampleId :  
SOIL-PILE

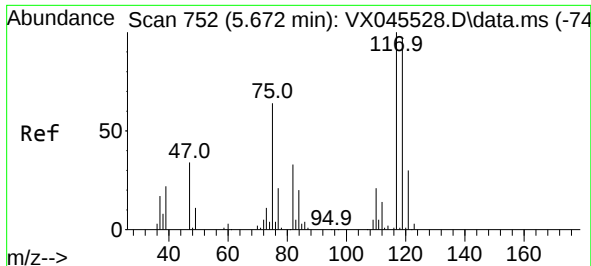
Tgt Ion:113 Resp: 50064  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.8 122.6  
192 16.6 13.8 20.6



#36  
1,1-Dichloropropene  
Concen: 5.254 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.141 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

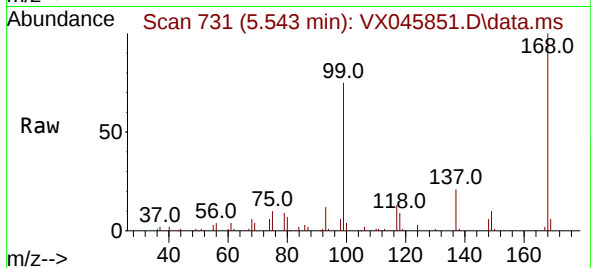
Tgt Ion: 75 Resp: 7076  
Ion Ratio Lower Upper  
75 100  
110 9.7 16.9 50.6#  
77 0.0 25.0 37.4#



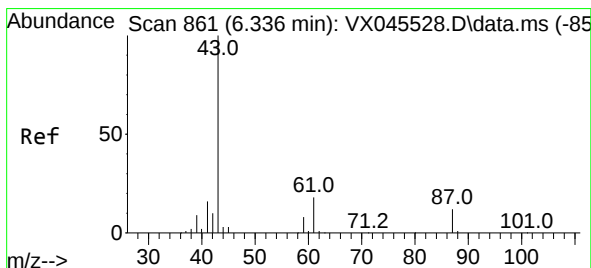
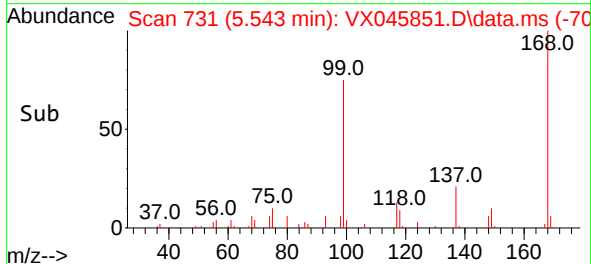
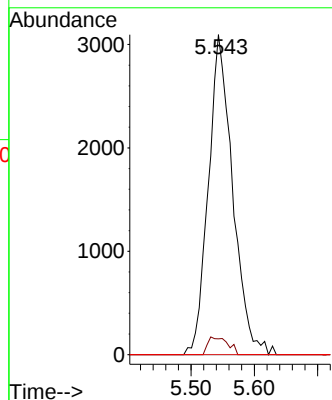


#38  
Carbon Tetrachloride  
Concen: 5.680 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-PILE

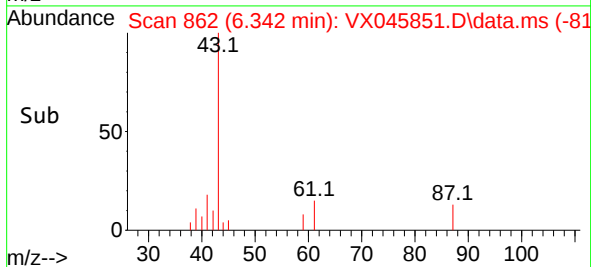
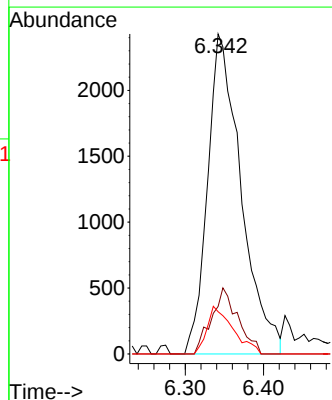
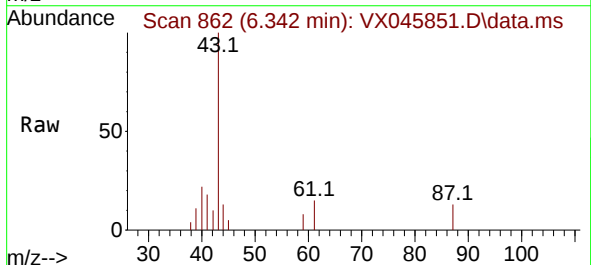


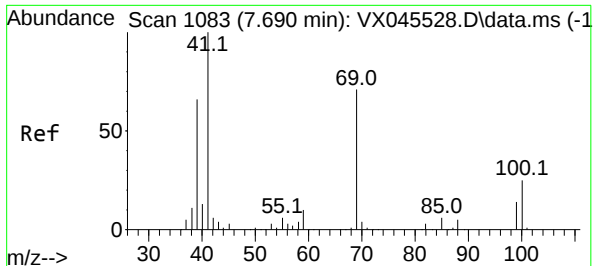
Tgt Ion:117 Resp: 8267  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.9 115.3#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 2.806 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

Tgt Ion: 43 Resp: 7217  
Ion Ratio Lower Upper  
43 100  
61 16.4 14.1 21.1  
87 11.5 9.2 13.8





#48

Methyl methacrylate

Concen: 0.265 ug/l

RT: 7.616 min Scan# 1071

Delta R.T. -0.074 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

Instrument :

MSVOA\_X

ClientSampleId :

SOIL-PILE

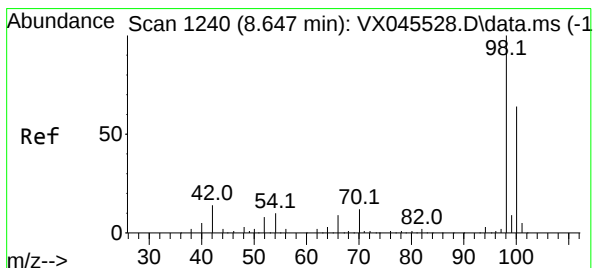
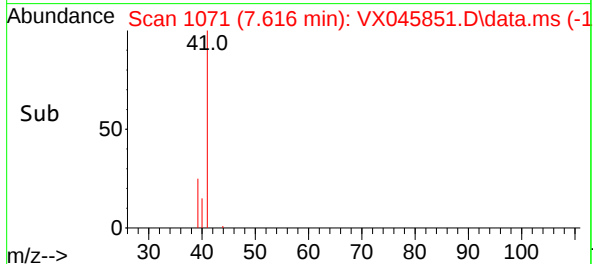
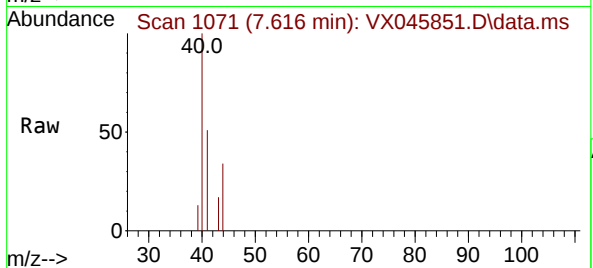
Tgt Ion: 41 Resp: 352

Ion Ratio Lower Upper

41 100

69 0.0 58.2 87.2#

39 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 50.447 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045851.D

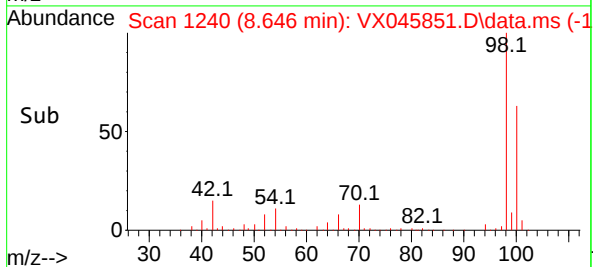
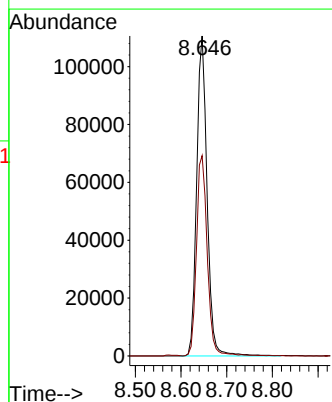
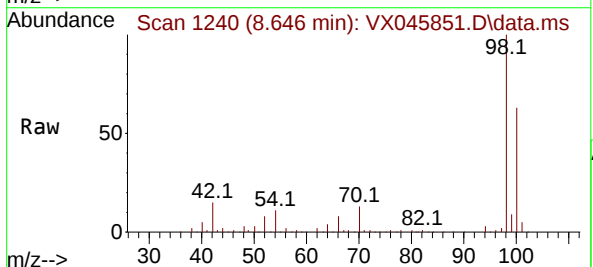
Acq: 18 Apr 2025 12:37

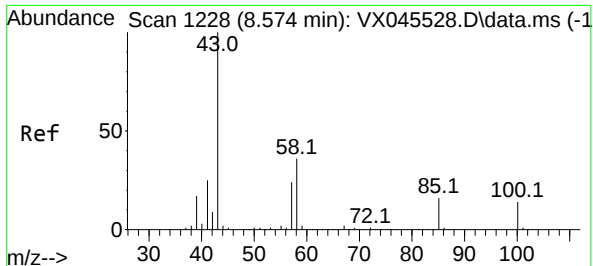
Tgt Ion: 98 Resp: 175626

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4

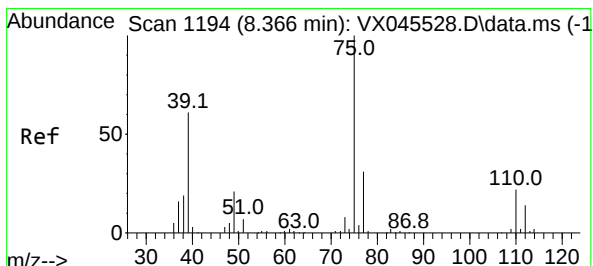
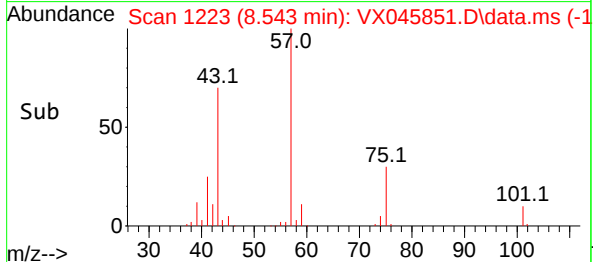
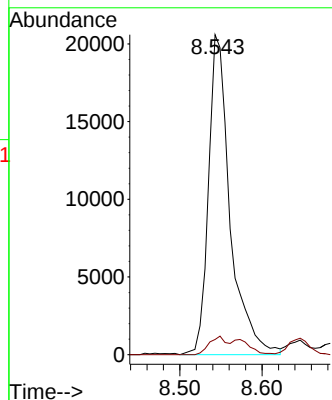
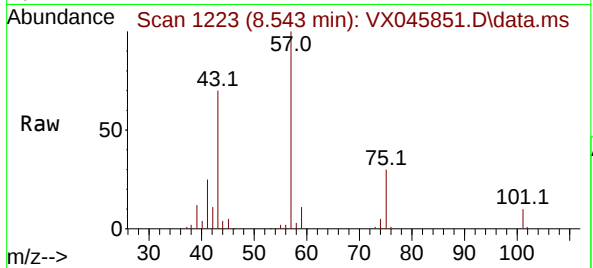




#51  
4-Methyl-2-Pentanone  
Concen: 22.042 ug/l  
RT: 8.543 min Scan# 11  
Delta R.T. -0.031 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

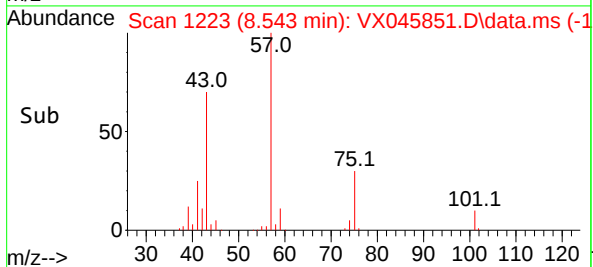
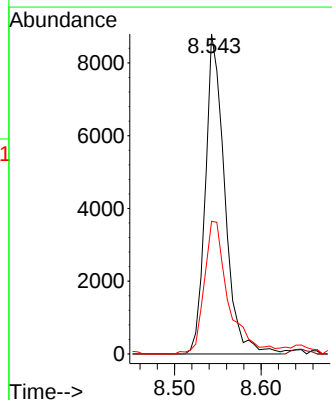
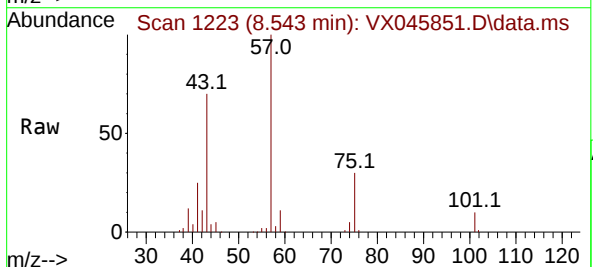
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-PILE

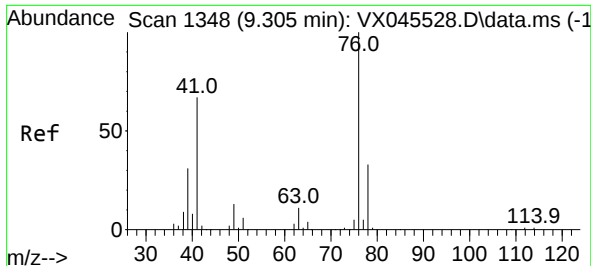
Tgt Ion: 43 Resp: 37586  
Ion Ratio Lower Upper  
43 100  
58 4.9 28.5 42.7#



#54  
cis-1,3-Dichloropropene  
Concen: 9.235 ug/l  
RT: 8.543 min Scan# 1223  
Delta R.T. 0.177 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

Tgt Ion: 75 Resp: 13653  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.6 36.8#  
39 40.7 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.384 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

Instrument :

MSVOA\_X

ClientSampleId :

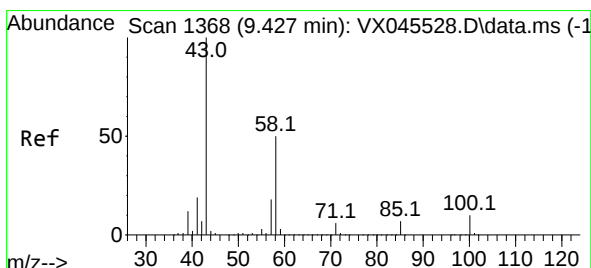
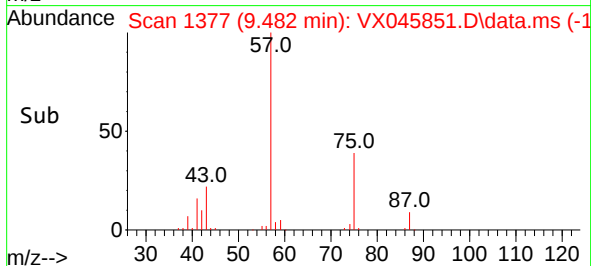
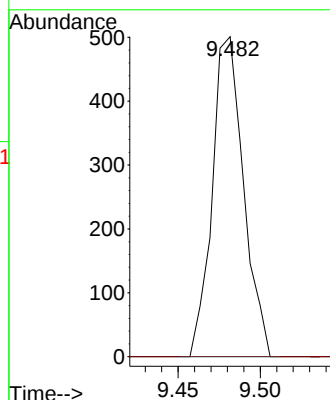
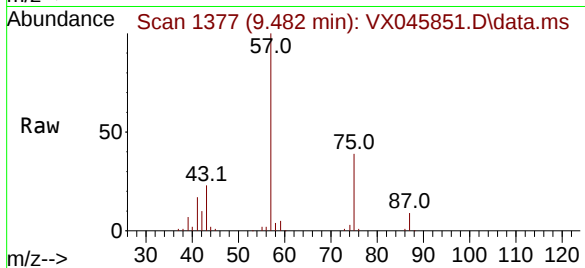
SOIL-PILE

Tgt Ion: 76 Resp: 663

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 8.874 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX045851.D

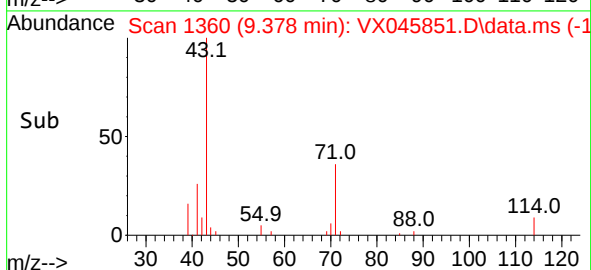
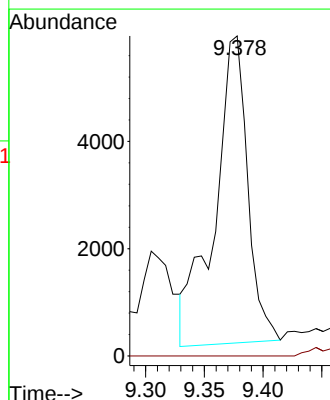
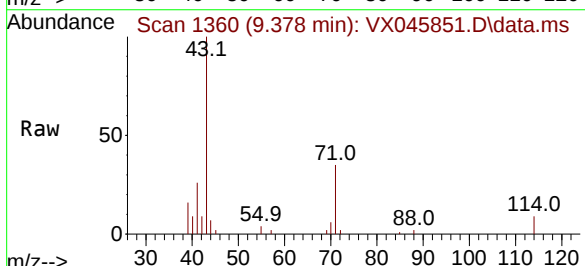
Acq: 18 Apr 2025 12:37

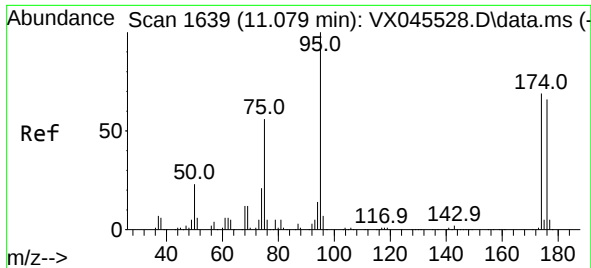
Tgt Ion: 43 Resp: 11206

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

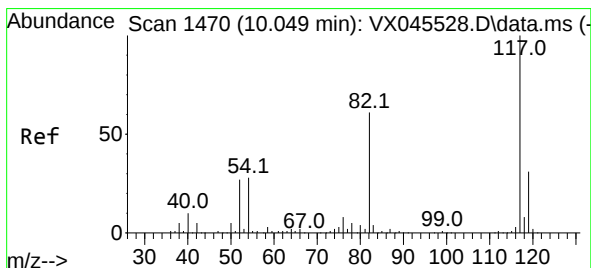
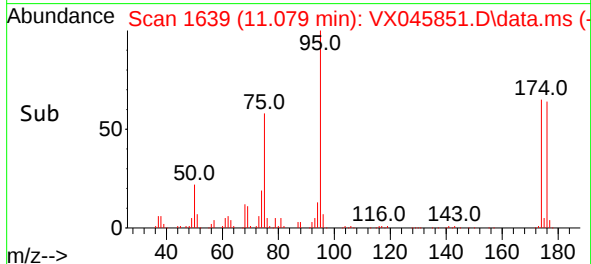
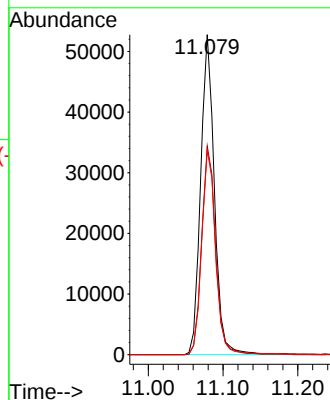
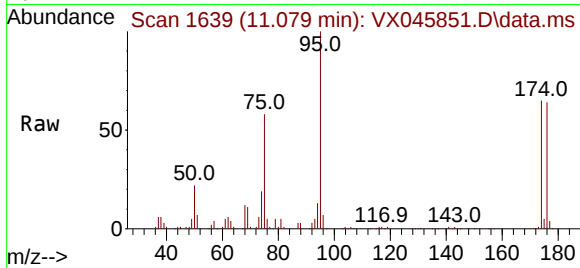




#62  
4-Bromofluorobenzene  
Concen: 53.014 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

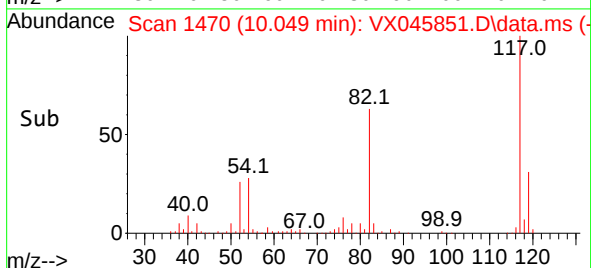
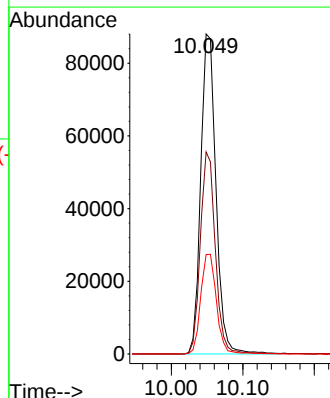
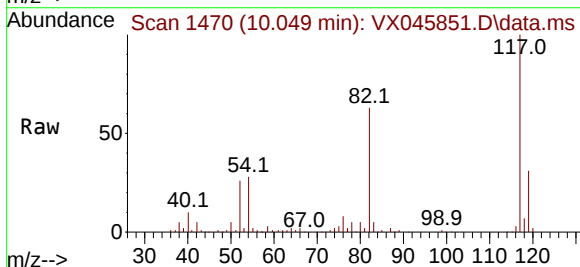
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-PILE

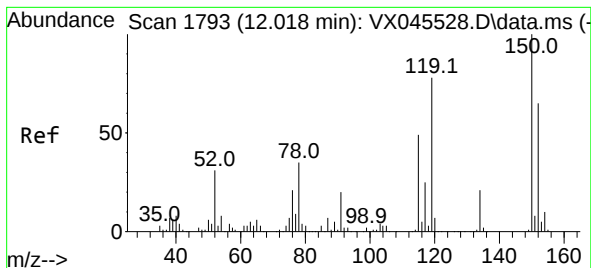
Tgt Ion: 95 Resp: 67227  
Ion Ratio Lower Upper  
95 100  
174 66.5 0.0 135.8  
176 64.2 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045851.D  
Acq: 18 Apr 2025 12:37

Tgt Ion: 117 Resp: 130200  
Ion Ratio Lower Upper  
117 100  
82 63.2 49.2 73.8  
119 31.1 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX045851.D

Acq: 18 Apr 2025 12:37

Instrument :

MSVOA\_X

ClientSampleId :

SOIL-PILE

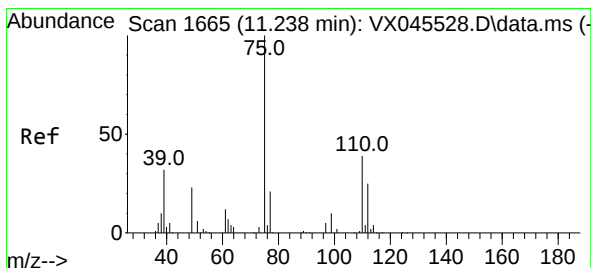
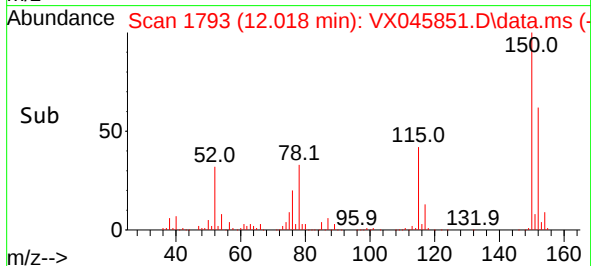
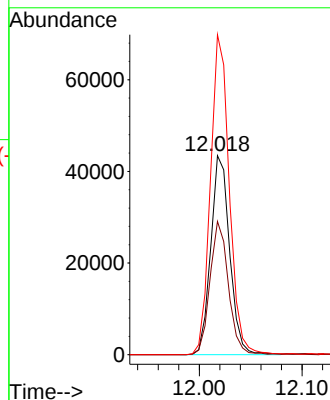
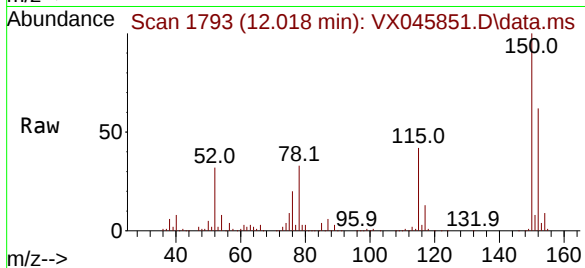
Tgt Ion:152 Resp: 55543

Ion Ratio Lower Upper

152 100

115 65.6 46.9 140.7

150 160.1 0.0 349.4



#76

1,2,3-Trichloropropane

Concen: 28.810 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX045851.D

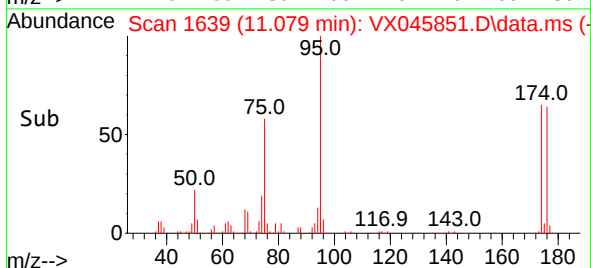
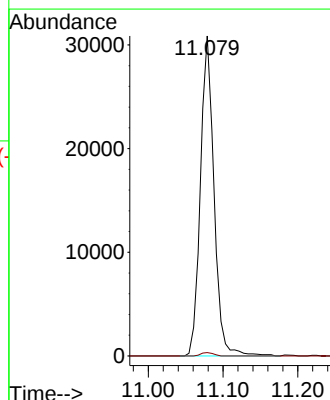
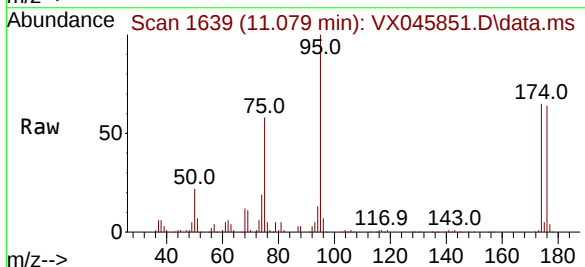
Acq: 18 Apr 2025 12:37

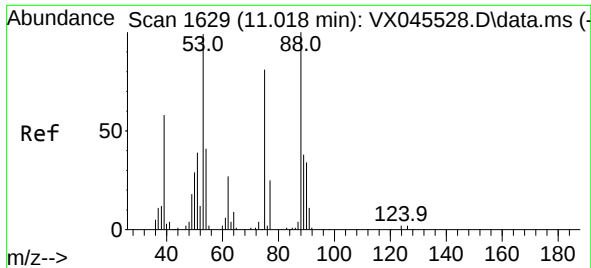
Tgt Ion: 75 Resp: 39032

Ion Ratio Lower Upper

75 100

77 1.0 20.0 59.9#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 97.776 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX045851.D  
 Acq: 18 Apr 2025 12:37

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SOIL-PILE

Tgt Ion: 75 Resp: 39032  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 101.8 152.6#  
 89 0.0 37.2 55.8#

