

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072721\  
 Data File : VD069869.D  
 Acq On : 27 Jul 2021 16:25  
 Operator : VA/SY  
 Sample : M3200-06  
 Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 28 03:59:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

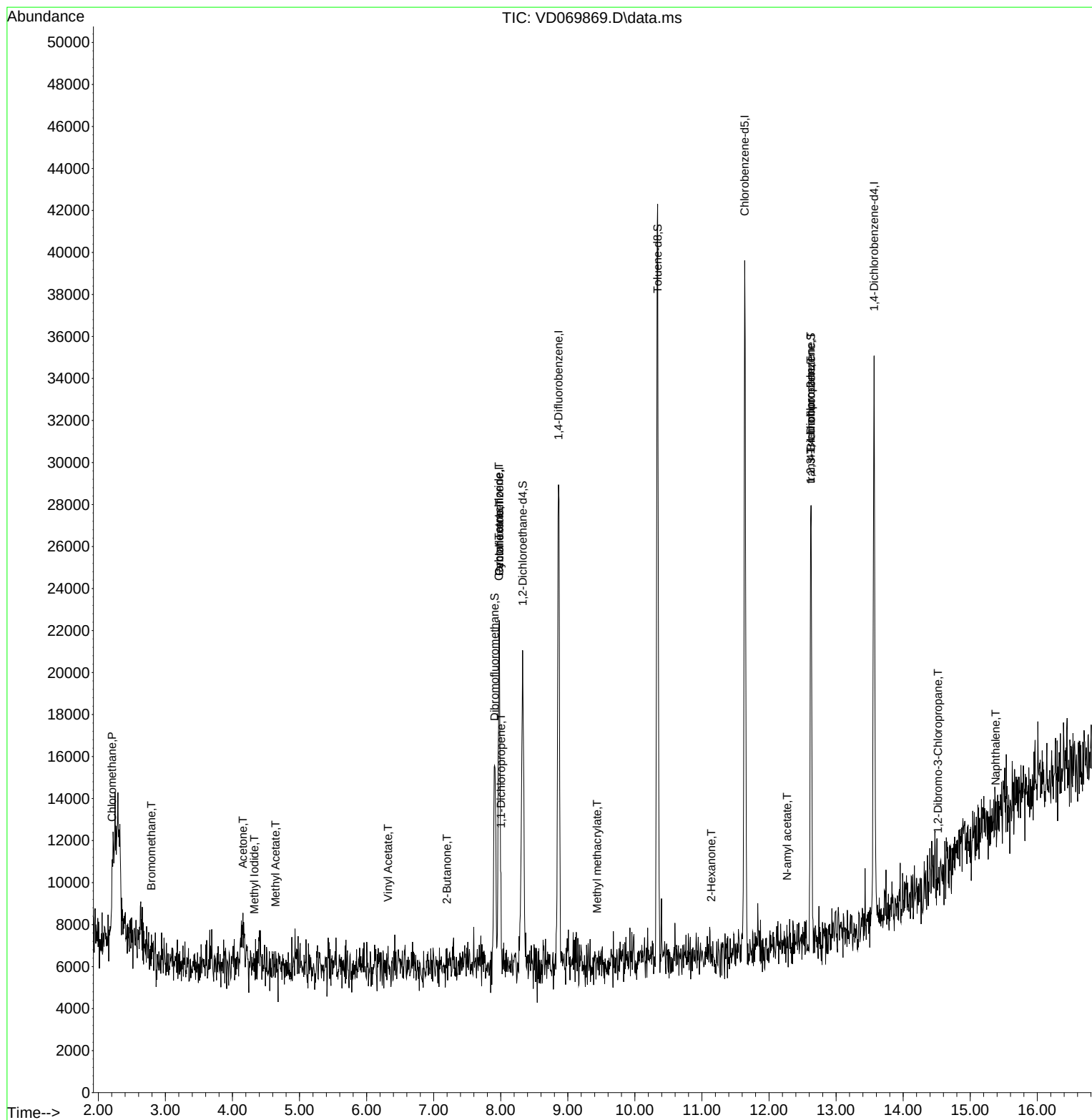
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 11306                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 19895                | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 18893                | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 7690                 | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 11968                | 92.041    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 184.080%# |           |        |          |
| 35) Dibromofluoromethane      | 7.909          | 113  | 7078                 | 56.435    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 112.880%  |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 24717                | 51.110    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 102.220%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 7331                 | 45.359    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 90.720%   |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 3) Chloromethane              | 2.203          | 50   | 542                  | 3.140     | ug/l # | 43       |
| 5) Bromomethane               | 2.791          | 94   | 402                  | 1.914     | ug/l # | 68       |
| 10) Methyl Iodide             | 4.326          | 142  | 184                  | 4.681     | ug/l # | 40       |
| 16) Acetone                   | 4.156          | 43   | 3459                 | 147.259   | ug/l # | 59       |
| 18) Methyl Acetate            | 4.644          | 43   | 157                  | 2.304     | ug/l # | 48       |
| 20) Methylene Chloride        | 4.950          | 84   | 373                  | Below Cal | #      | 9        |
| 23) Vinyl Acetate             | 6.320          | 43   | 55                   | 20.572    | ug/l # | 71       |
| 25) 2-Butanone                | 7.197          | 43   | 319                  | 10.014    | ug/l # | 46       |
| 31) Cyclohexane               | 7.979          | 56   | 257                  | 1.012     | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 8.003          | 75   | 232                  | 1.081     | ug/l # | 42       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 1115                 | 5.685     | ug/l # | 12       |
| 48) Methyl methacrylate       | 9.438          | 41   | 56                   | 3.456     | ug/l # | 13       |
| 59) 2-Hexanone                | 11.138         | 43   | 137                  | 2.839     | ug/l # | 21       |
| 74) N-amyl acetate            | 12.267         | 43   | 143                  | 1.258     | ug/l # | 39       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 3492                 | 42.721    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 3492                 | 129.605   | ug/l # | 16       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.520         | 75   | 72                   | 4.531     | ug/l # | 7        |
| 95) Naphthalene               | 15.379         | 128  | 451                  | 6.613     | ug/l # | 69       |
| -----                         |                |      |                      |           |        |          |

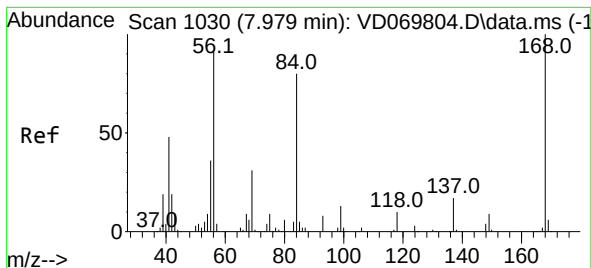
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 28 03:59:43 2021  
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Quant Title : SW846 8260  
QLast Update : Fri Jul 23 04:51:13 2021  
Response via : Initial Calibration

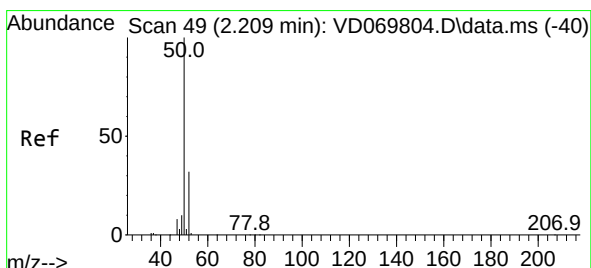
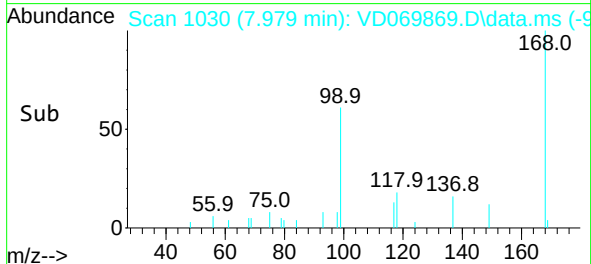
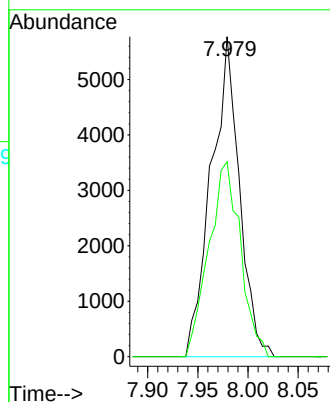
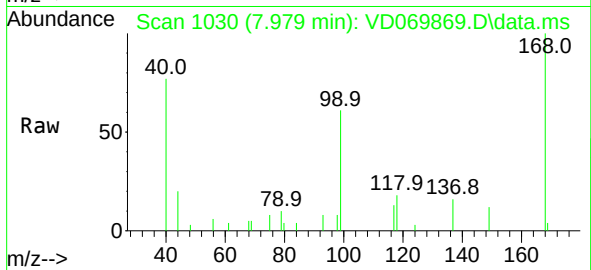




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

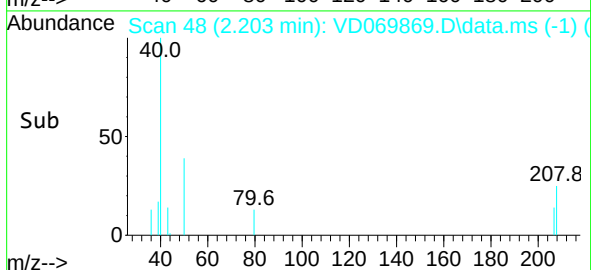
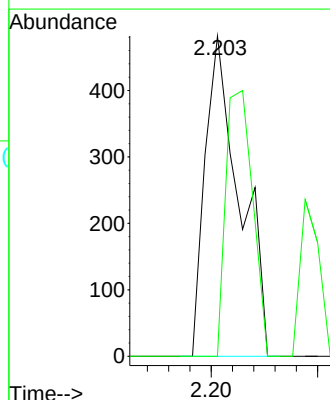
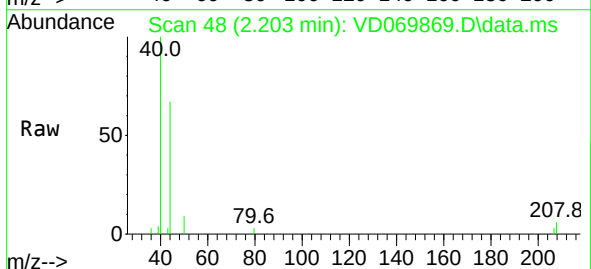
Instrument :  
MSVOA\_D  
ClientSampled :

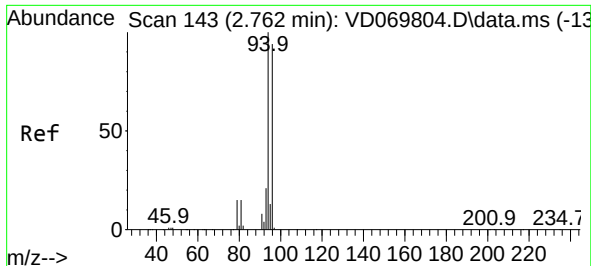
Tgt Ion:168 Resp: 11306  
Ion Ratio Lower Upper  
168 100  
99 60.9 51.1 76.7



#3  
Chloromethane  
Concen: 3.140 ug/l  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 50 Resp: 542  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

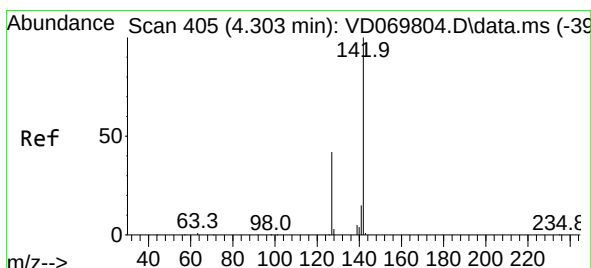
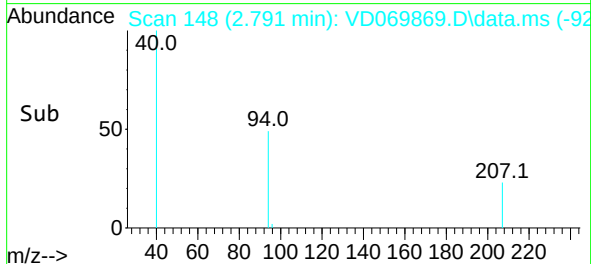
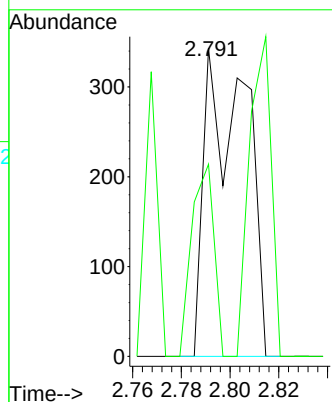
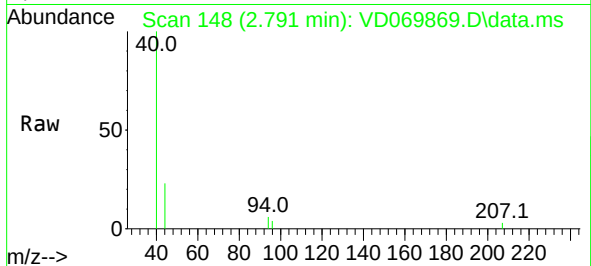




#5  
Bromomethane  
Concen: 1.914 ug/l  
RT: 2.791 min Scan# 148  
Delta R.T. 0.029 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

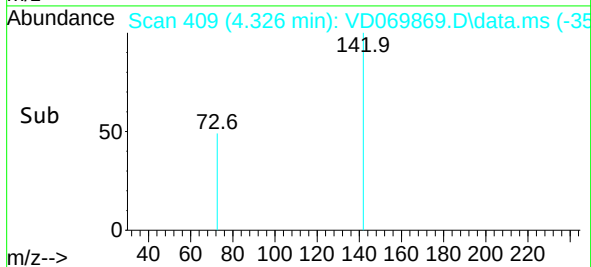
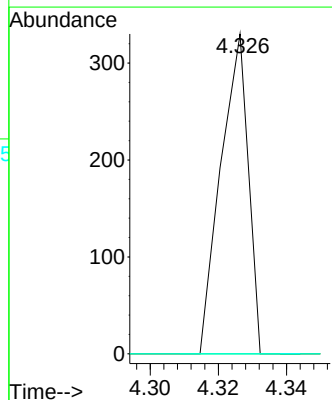
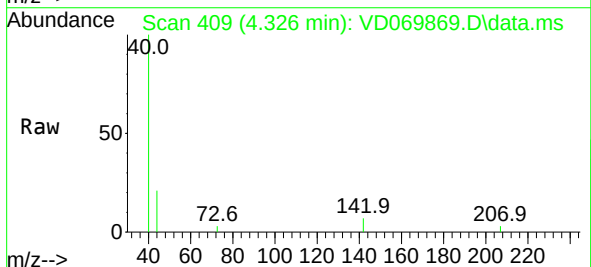
Instrument :  
MSVOA\_D  
ClientSampleId :

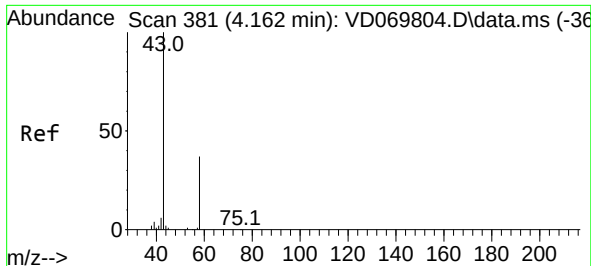
Tgt Ion: 94 Resp: 402  
Ion Ratio Lower Upper  
94 100  
96 62.4 74.8 112.2#



#10  
Methyl Iodide  
Concen: 4.681 ug/l  
RT: 4.326 min Scan# 409  
Delta R.T. 0.023 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion:142 Resp: 184  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.7 53.5#  
141 0.0 12.0 18.0#

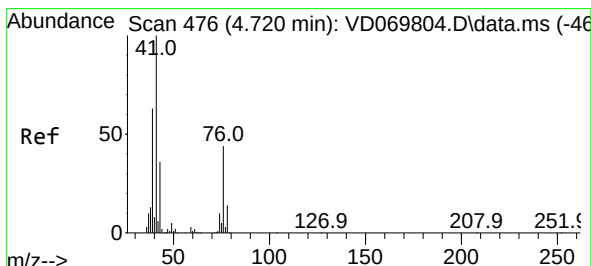
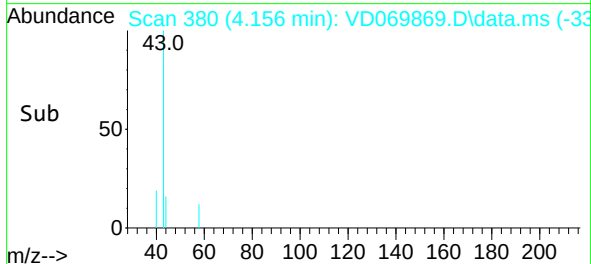
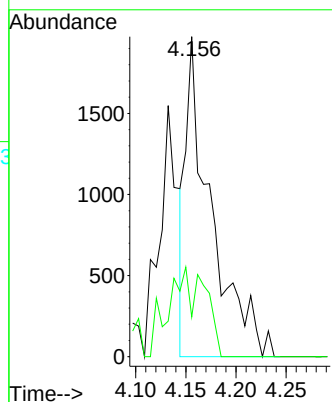
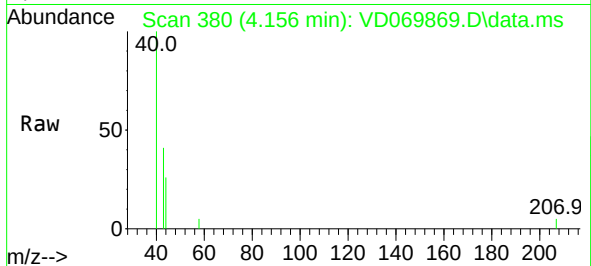




#16  
Acetone  
Concen: 147.259 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

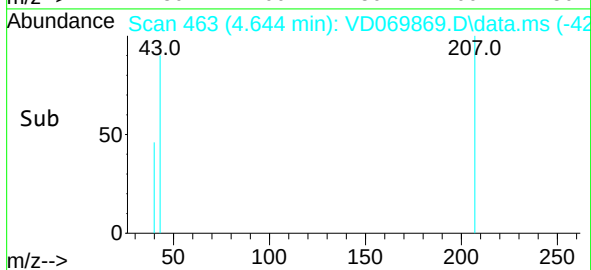
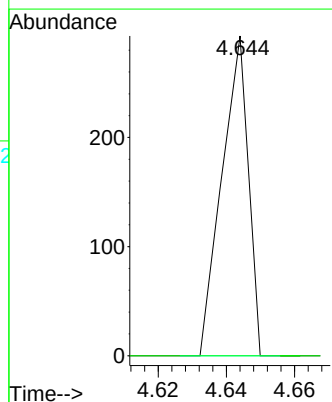
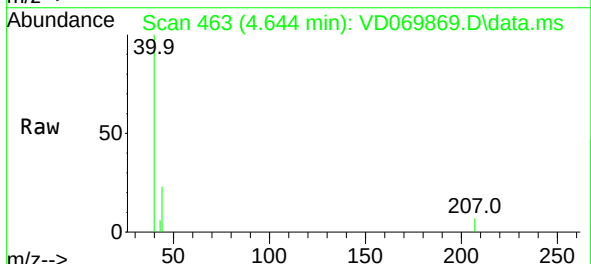
Instrument :  
MSVOA\_D  
ClientSampleId :

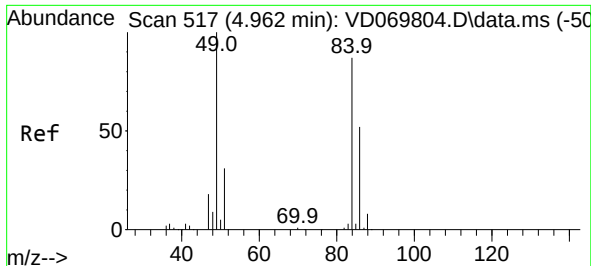
Tgt Ion: 43 Resp: 3459  
Ion Ratio Lower Upper  
43 100  
58 12.4 29.4 44.0#



#18  
Methyl Acetate  
Concen: 2.304 ug/l  
RT: 4.644 min Scan# 463  
Delta R.T. -0.076 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

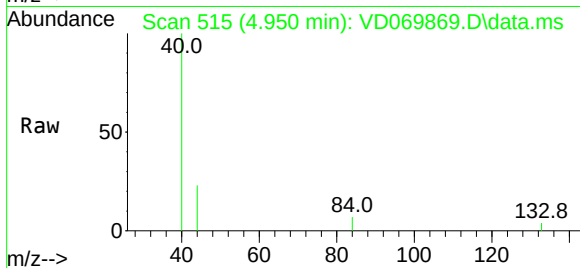
Tgt Ion: 43 Resp: 157  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.4 32.2#



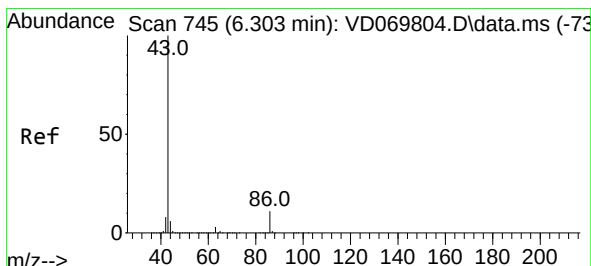
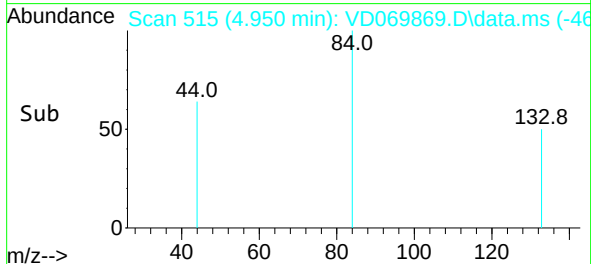
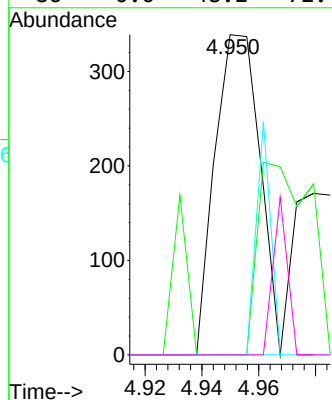


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.950 min Scan# 515  
Delta R.T. -0.012 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Instrument :  
MSVOA\_D  
ClientSampled :

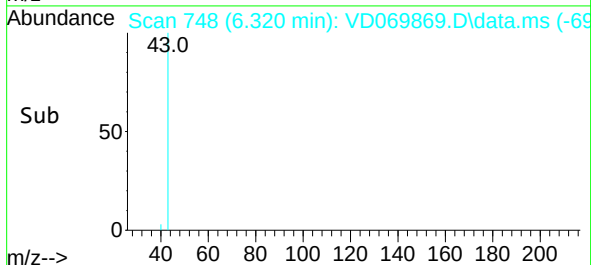
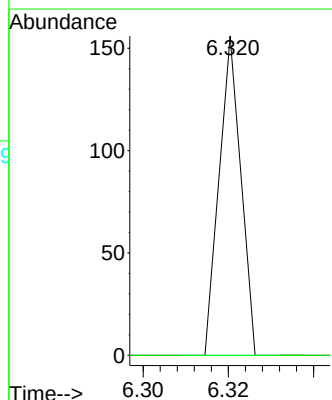
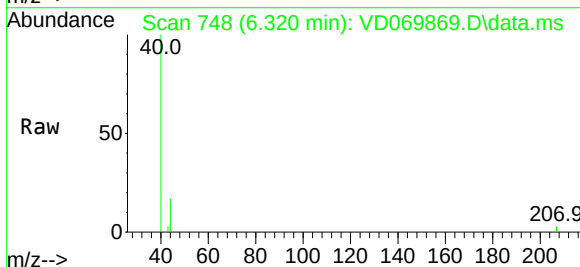


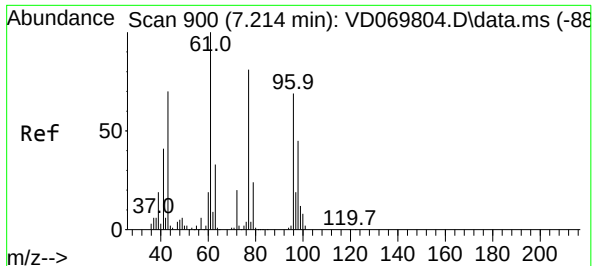
Tgt Ion: 84 Resp: 373  
Ion Ratio Lower Upper  
84 100  
49 0.0 92.4 138.6#  
51 0.0 28.5 42.7#  
86 0.0 48.2 72.4#



#23  
Vinyl Acetate  
Concen: 20.572 ug/l  
RT: 6.320 min Scan# 748  
Delta R.T. 0.017 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.6 13.0#

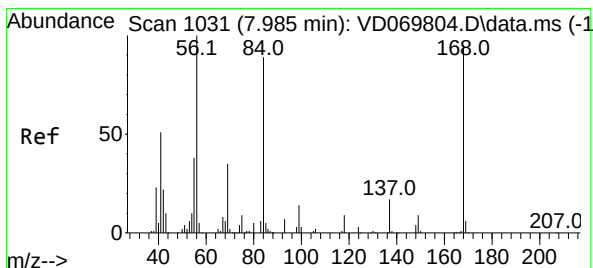
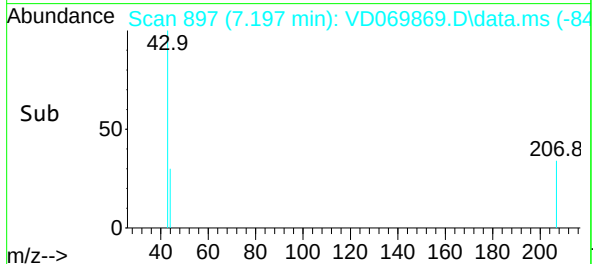
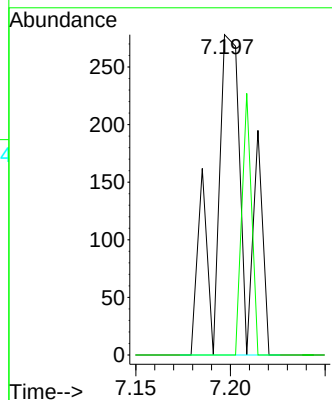
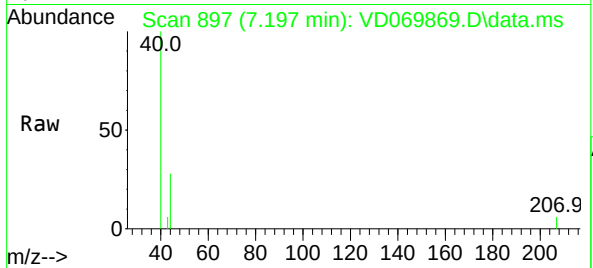




#25  
2-Butanone  
Concen: 10.014 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.018 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

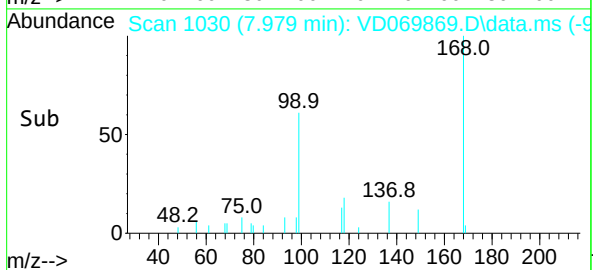
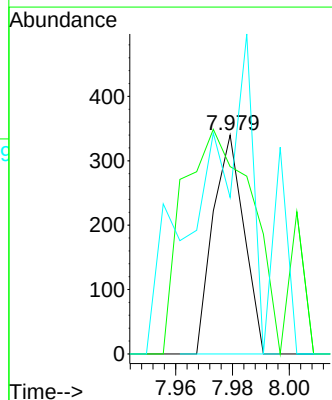
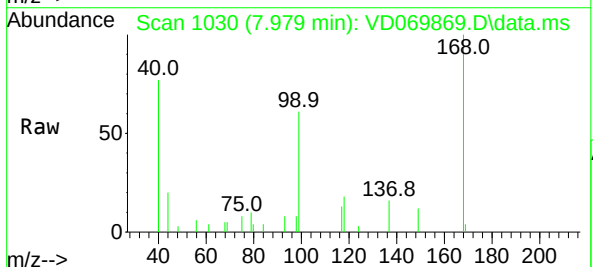
Instrument :  
MSVOA\_D  
ClientSampled :

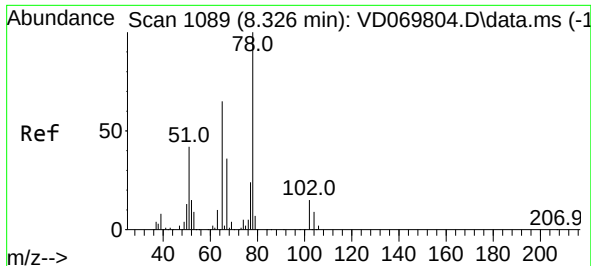
Tgt Ion: 43 Resp: 319  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.8 34.2#



#31  
Cyclohexane  
Concen: 1.012 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

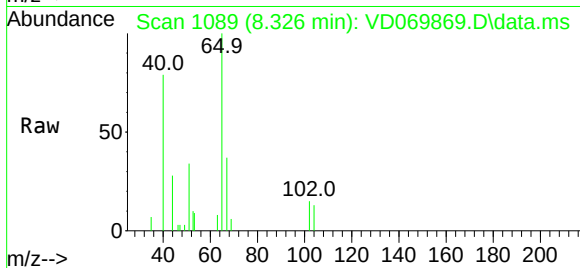
Tgt Ion: 56 Resp: 257  
Ion Ratio Lower Upper  
56 100  
69 85.6 27.9 41.9#  
84 19.7 71.4 107.2#



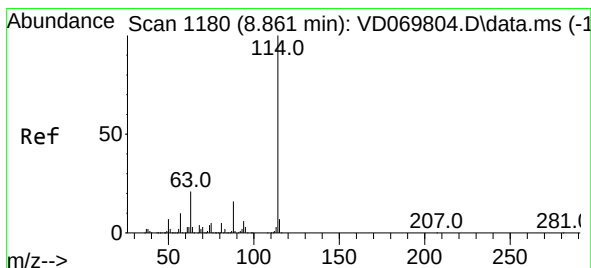
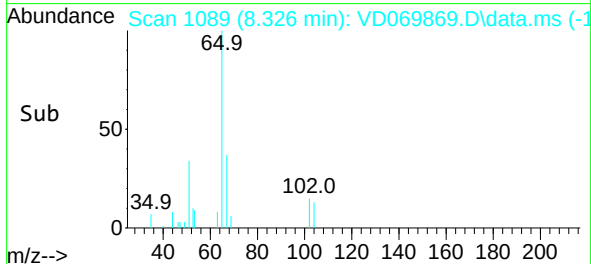
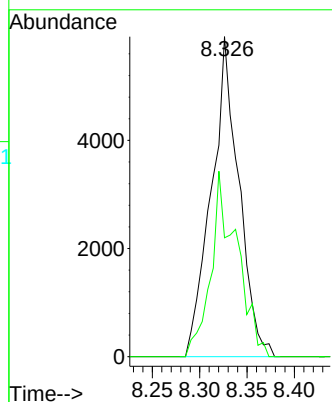


#33  
 1,2-Dichloroethane-d4  
 Concen: 92.041 ug/l  
 RT: 8.326 min Scan# 1089  
 Delta R.T. -0.000 min  
 Lab File: VD069869.D  
 Acq: 27 Jul 2021 16:25

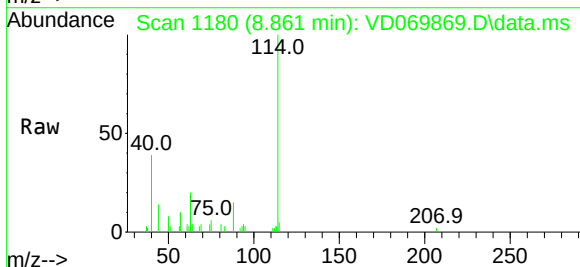
Instrument :  
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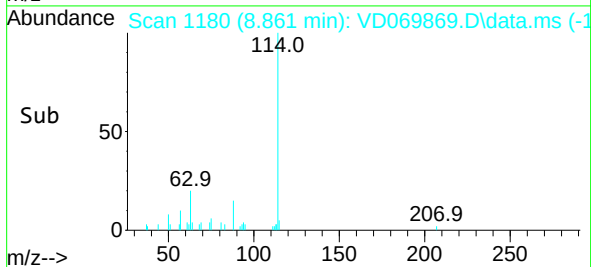
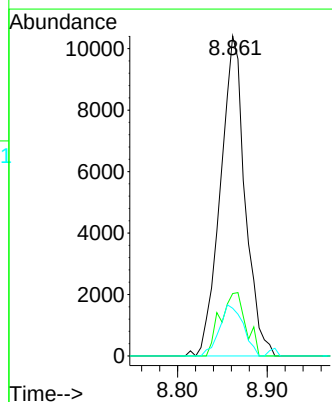
Tgt Ion: 65 Resp: 11968  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 111.2



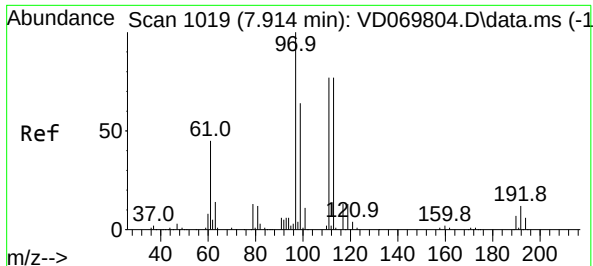
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.861 min Scan# 1180  
 Delta R.T. 0.000 min  
 Lab File: VD069869.D  
 Acq: 27 Jul 2021 16:25



Tgt Ion: 114 Resp: 19895  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 41.6  
 88 14.9 0.0 31.4







#35

Dibromofluoromethane

Concen: 56.435 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD069869.D

Acq: 27 Jul 2021 16:25

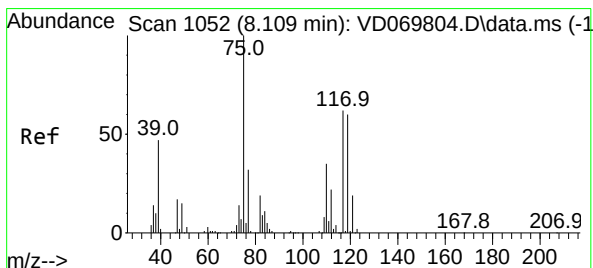
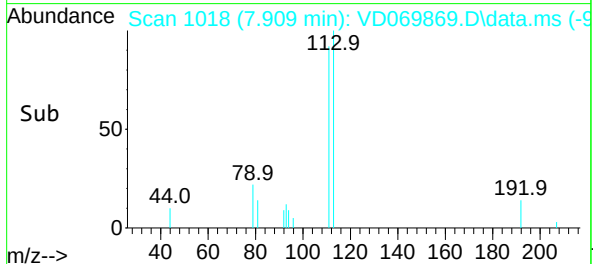
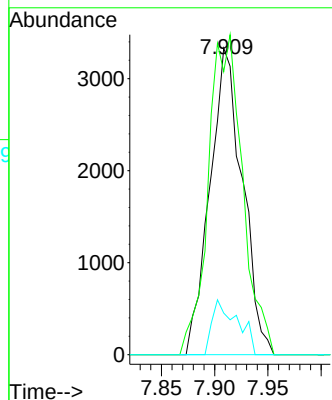
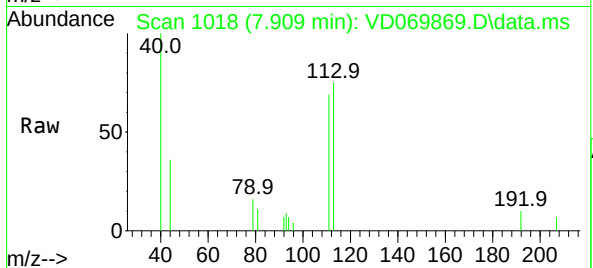
Tgt Ion:113 Resp: 7078

Ion Ratio Lower Upper

113 100

111 109.6 80.5 120.7

192 14.0 12.6 19.0



#36

1,1-Dichloropropene

Concen: 1.081 ug/l

RT: 8.003 min Scan# 1034

Delta R.T. -0.106 min

Lab File: VD069869.D

Acq: 27 Jul 2021 16:25

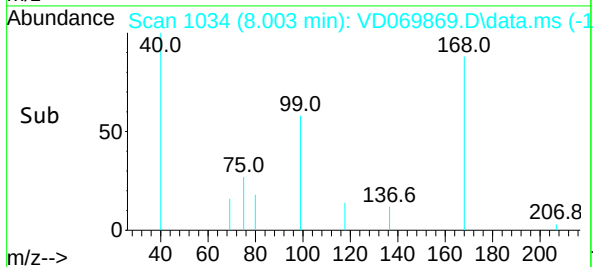
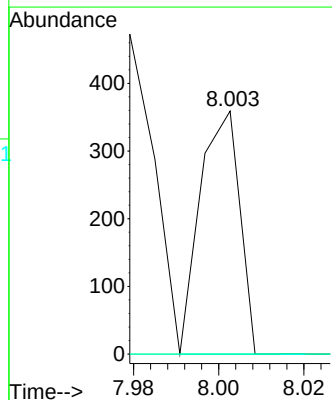
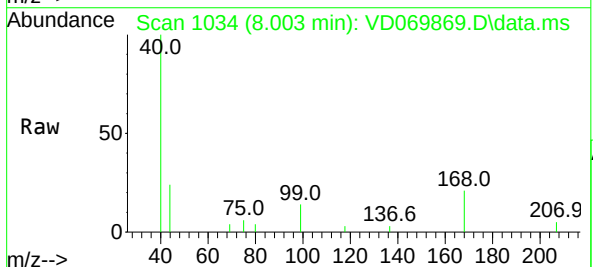
Tgt Ion: 75 Resp: 232

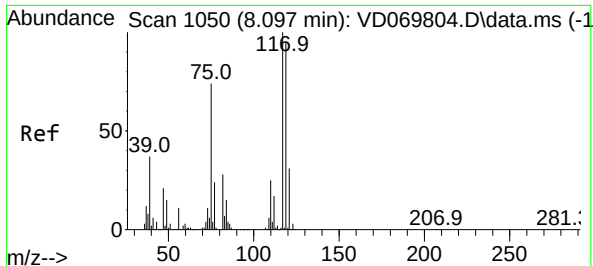
Ion Ratio Lower Upper

75 100

110 0.0 16.9 50.7#

77 0.0 24.9 37.3#

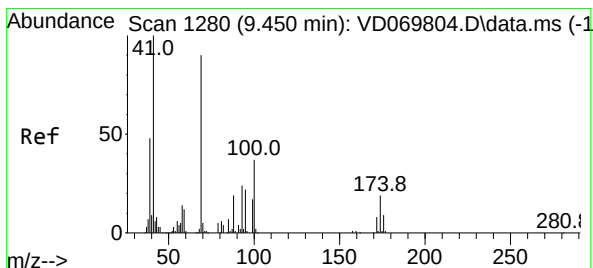
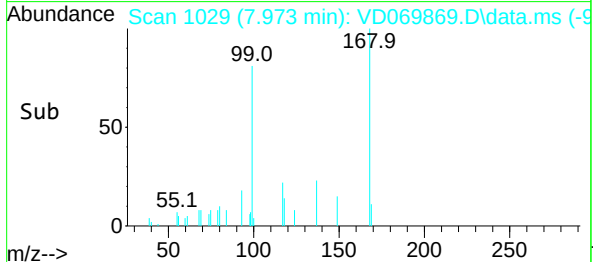
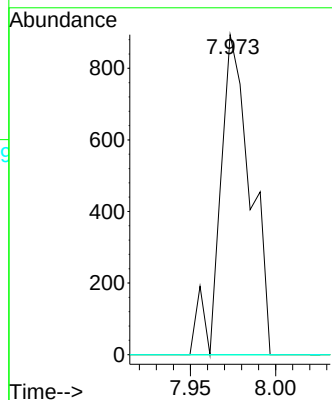
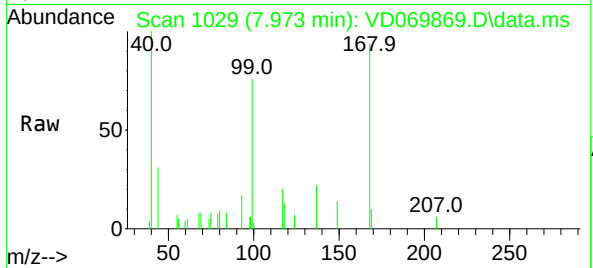




#38  
Carbon Tetrachloride  
Concen: 5.685 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.124 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

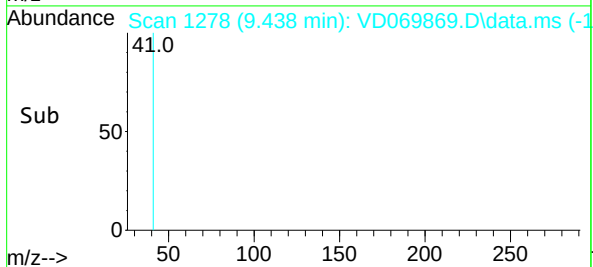
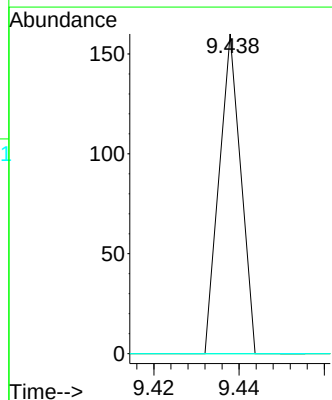
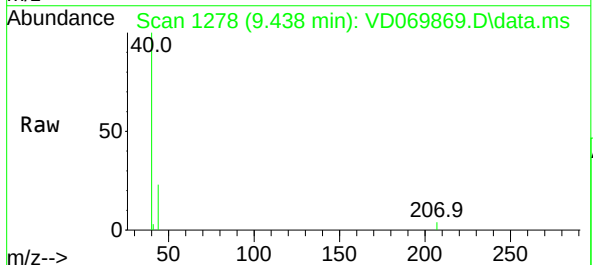
Instrument :  
MSVOA\_D  
ClientSampled :

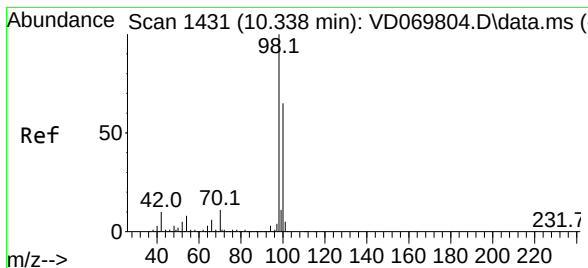
Tgt Ion:117 Resp: 1115  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.2 114.2#  
121 0.0 24.5 36.7#



#48  
Methyl methacrylate  
Concen: 3.456 ug/l  
RT: 9.438 min Scan# 1278  
Delta R.T. -0.012 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 41 Resp: 56  
Ion Ratio Lower Upper  
41 100  
69 0.0 73.4 110.2#  
39 0.0 36.6 55.0#

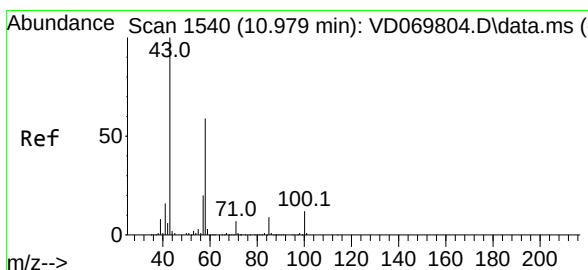
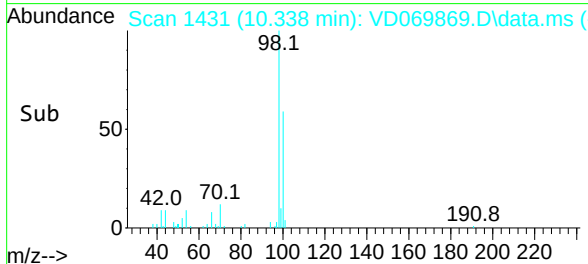
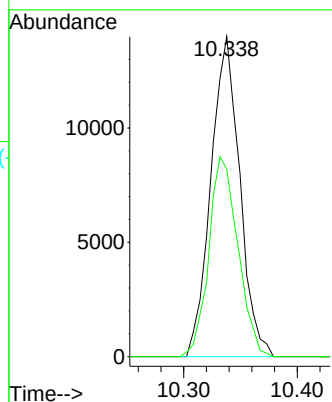
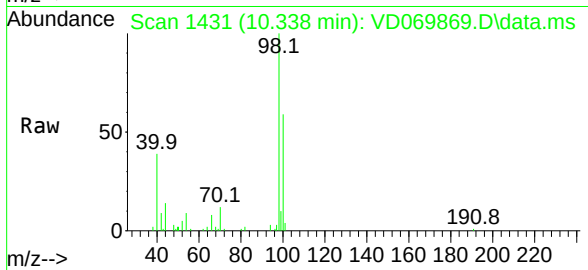




#50  
Toluene-d8  
Concen: 51.110 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

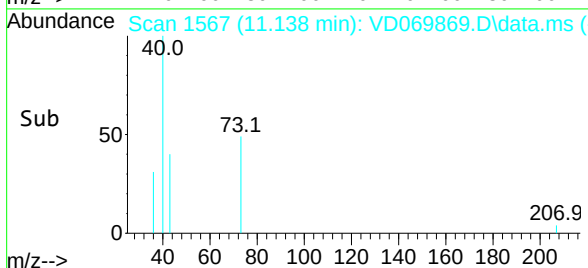
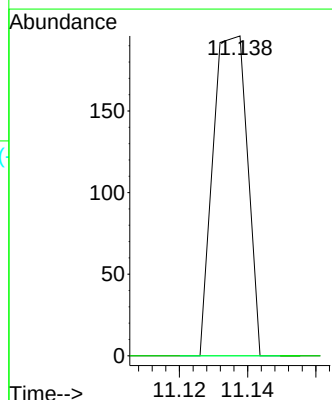
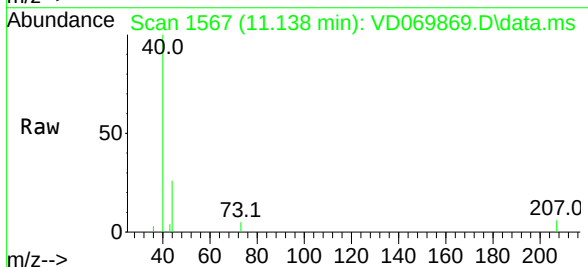
Instrument :  
MSVOA\_D  
ClientSampled :

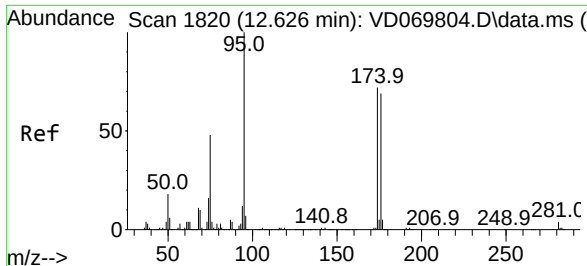
Tgt Ion: 98 Resp: 24717  
Ion Ratio Lower Upper  
98 100  
100 62.9 51.9 77.9



#59  
2-Hexanone  
Concen: 2.839 ug/l  
RT: 11.138 min Scan# 1567  
Delta R.T. 0.159 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 43 Resp: 137  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.4 88.3#

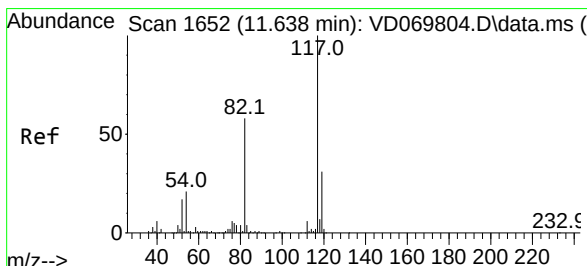
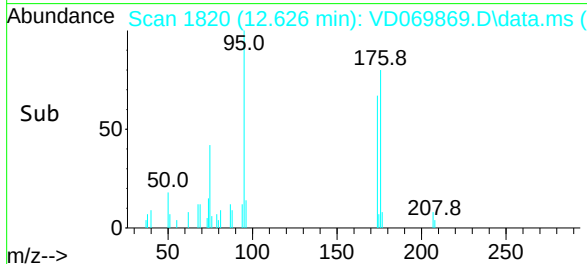
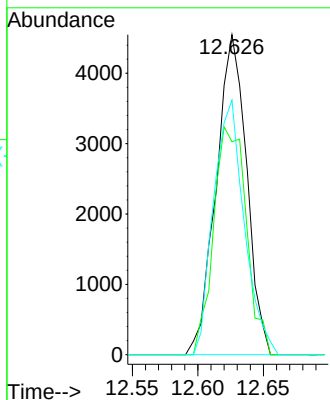
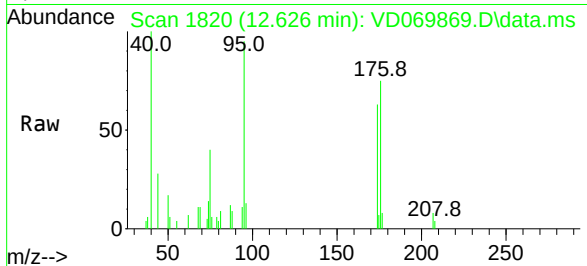




#62  
4-Bromofluorobenzene  
Concen: 45.359 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

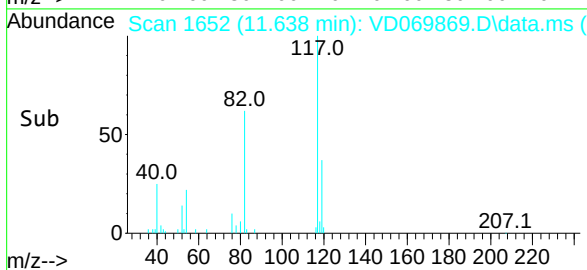
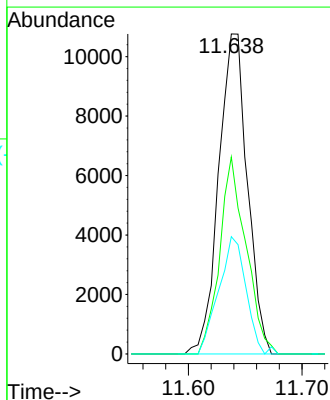
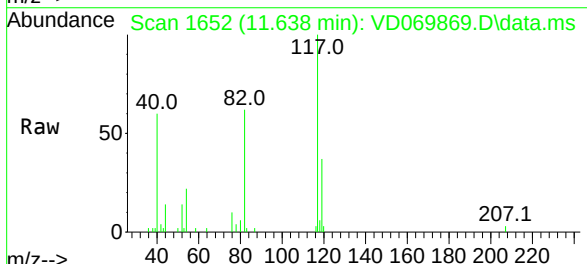
Instrument :  
MSVOA\_D  
ClientSampleId :

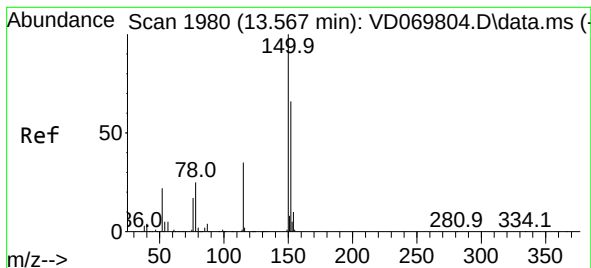
Tgt Ion: 95 Resp: 7331  
Ion Ratio Lower Upper  
95 100  
174 76.6 0.0 142.6  
176 80.3 0.0 134.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 117 Resp: 18893  
Ion Ratio Lower Upper  
117 100  
82 61.5 46.3 69.5  
119 36.7 24.7 37.1

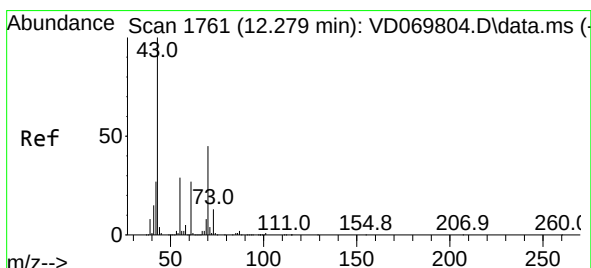
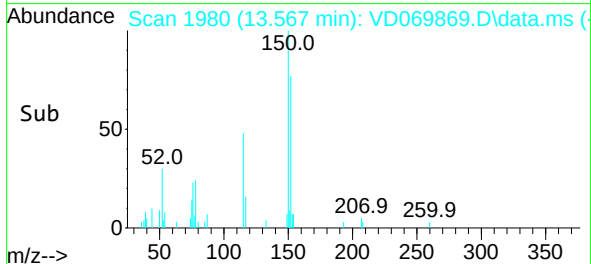
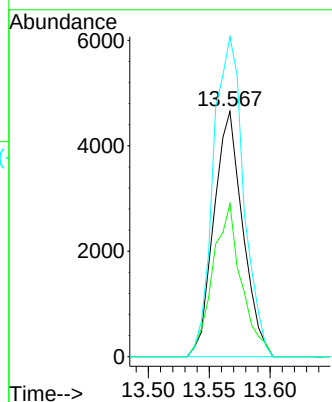
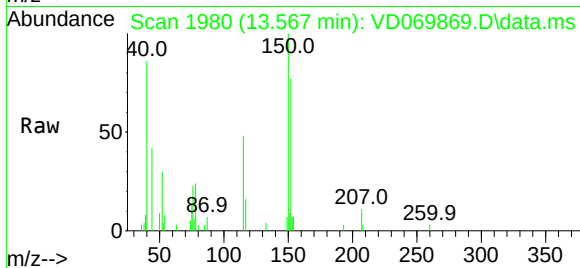




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

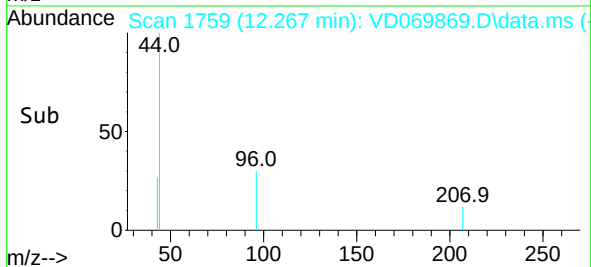
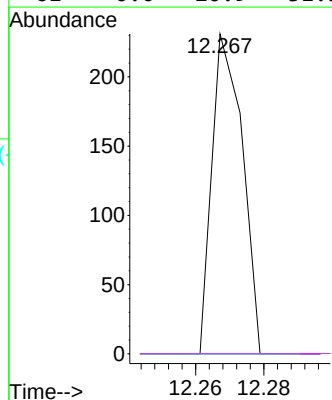
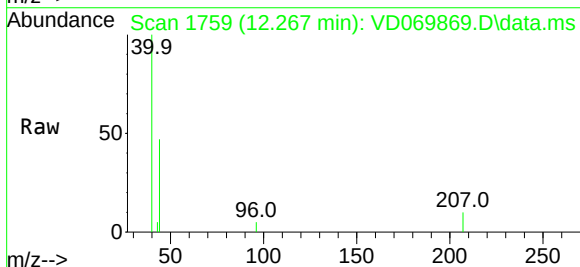
Instrument :  
MSVOA\_D  
ClientSampleId :

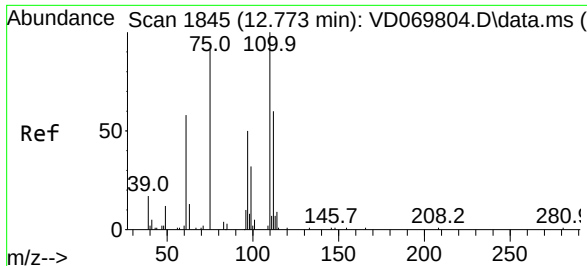
Tgt Ion:152 Resp: 7690  
Ion Ratio Lower Upper  
152 100  
115 61.4 31.1 93.3  
150 136.1 0.0 343.0



#74  
N-ethyl acetate  
Concen: 1.258 ug/l  
RT: 12.267 min Scan# 1759  
Delta R.T. -0.012 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 43 Resp: 143  
Ion Ratio Lower Upper  
43 100  
70 0.0 37.9 56.9#  
55 0.0 23.7 35.5#  
61 0.0 20.9 31.3#

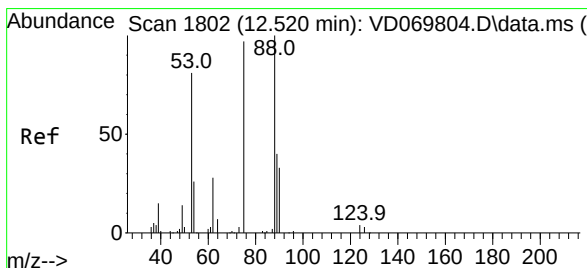
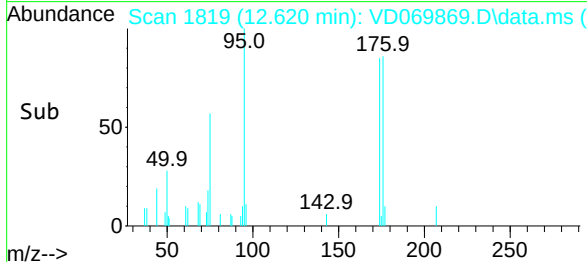
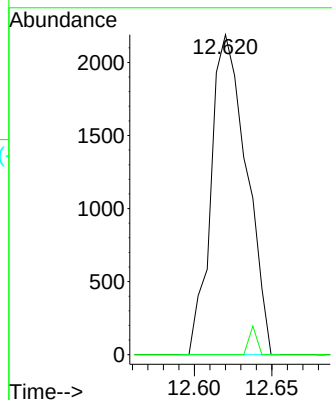
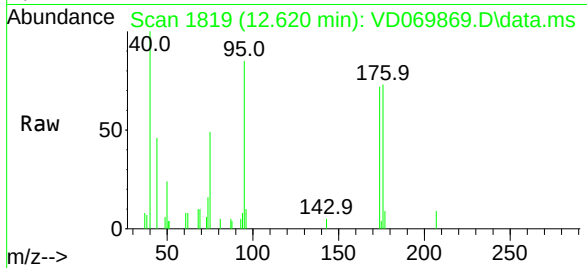




#76  
1,2,3-Trichloropropane  
Concen: 42.721 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

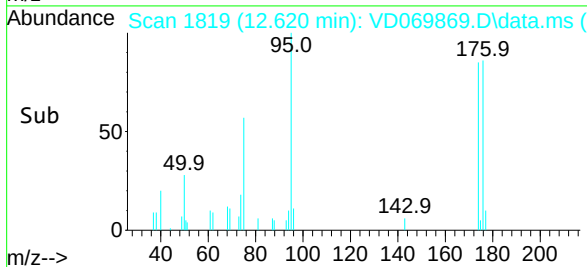
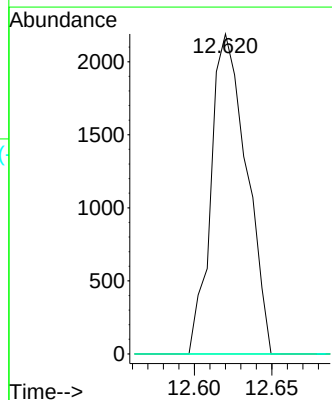
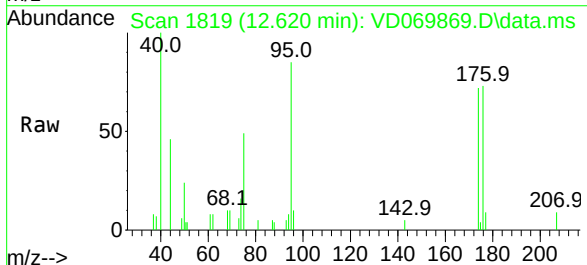
Instrument :  
MSVOA\_D  
ClientSampled :

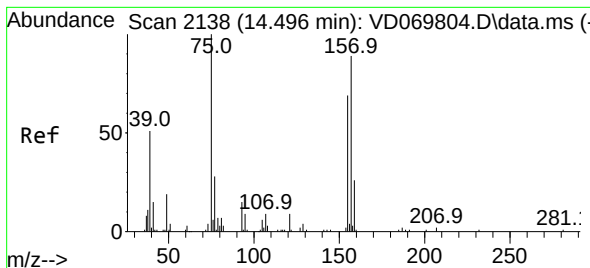
Tgt Ion: 75 Resp: 3492  
Ion Ratio Lower Upper  
75 100  
77 2.0 181.5 544.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 129.605 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 75 Resp: 3492  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.2 100.8#  
89 0.0 35.8 53.6#

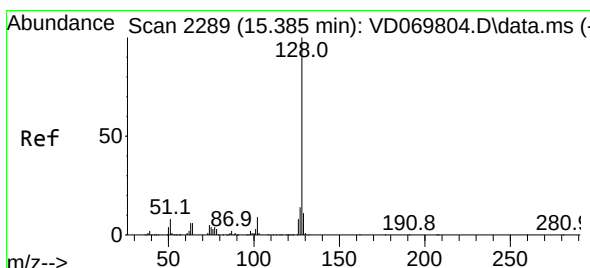
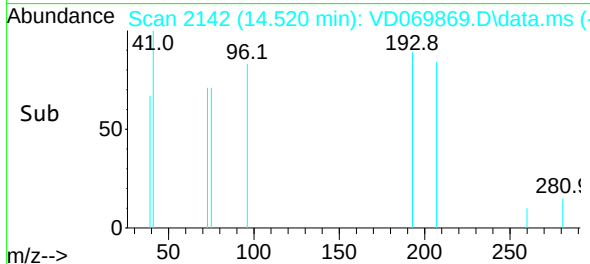
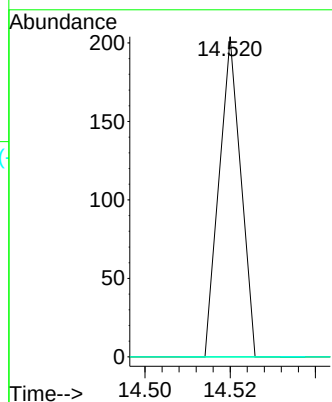
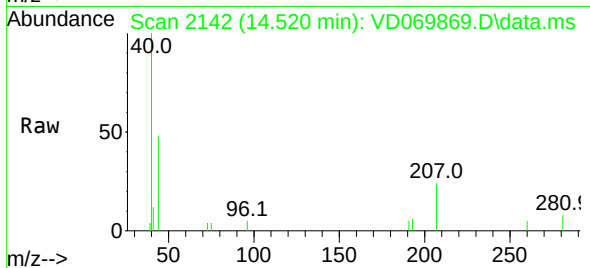




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 4.531 ug/l  
RT: 14.520 min Scan# 2142  
Delta R.T. 0.024 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 75 Resp: 72  
Ion Ratio Lower Upper  
75 100  
155 0.0 36.3 108.9#  
157 0.0 47.0 141.0#



#95  
Naphthalene  
Concen: 6.613 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.006 min  
Lab File: VD069869.D  
Acq: 27 Jul 2021 16:25

Tgt Ion: 128 Resp: 451  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 12.8#

