

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111021\  
 Data File : VD070972.D  
 Acq On : 10 Nov 2021 16:09  
 Operator : VA/SY  
 Sample : M4519-03RE  
 Misc : 5.06/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 11 06:29:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 10 03:55:51 2021  
 Response via : Initial Calibration

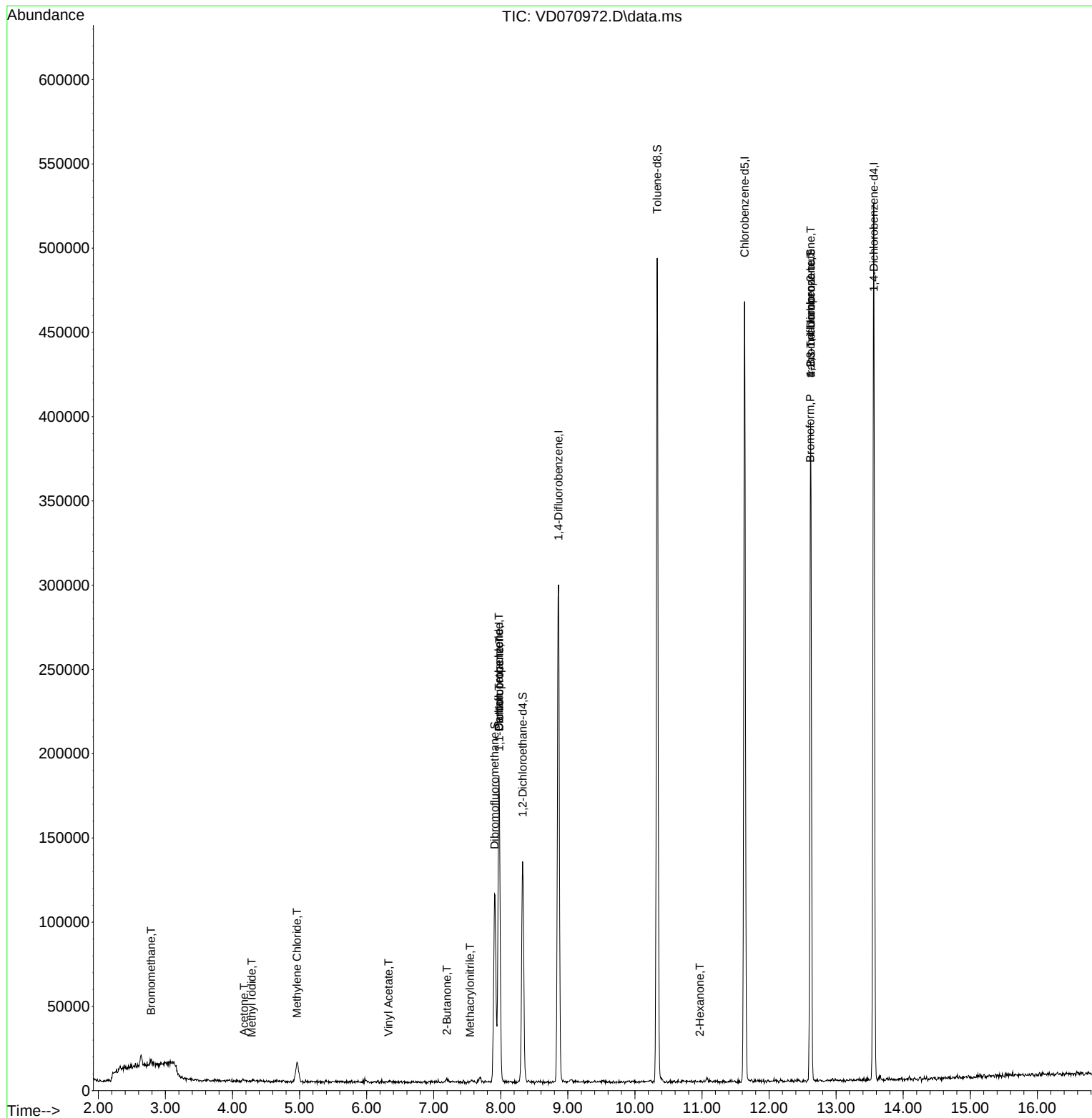
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 129732   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 250352   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 256416   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 128296   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 101045   | 73.154    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 146.300% |          |
| 35) Dibromofluoromethane      | 7.908  | 113   | 79624    | 56.363    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 112.720% |          |
| 50) Toluene-d8                | 10.332 | 98    | 317555   | 57.399    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 114.800% |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 127785   | 64.149    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 128.300% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.785  | 94    | 1793     | 2.074     | ug/l       | 84       |
| 10) Methyl Iodide             | 4.285  | 142   | 288      | 6.190     | ug/l #     | 90       |
| 13) Acrolein                  | 3.950  | 56    | 56       | Below Cal | #          | 13       |
| 16) Acetone                   | 4.173  | 43    | 3099     | 27.446    | ug/l #     | 40       |
| 20) Methylene Chloride        | 4.961  | 84    | 8281     | 4.890     | ug/l #     | 92       |
| 23) Vinyl Acetate             | 6.326  | 43    | 201      | 21.050    | ug/l #     | 72       |
| 25) 2-Butanone                | 7.197  | 43    | 663      | 21.631    | ug/l #     | 45       |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 11779    | 5.270     | ug/l #     | 47       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 13835    | 6.721     | ug/l #     | 17       |
| 41) Methacrylonitrile         | 7.544  | 41    | 888      | 4.605     | ug/l #     | 12       |
| 59) 2-Hexanone                | 10.967 | 43    | 480      | 16.484    | ug/l #     | 22       |
| 71) Bromoform                 | 12.614 | 173   | 1271     | 1.501     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 69371    | 63.300    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 69371    | 117.109   | ug/l #     | 18       |
| -----                         |        |       |          |           |            |          |

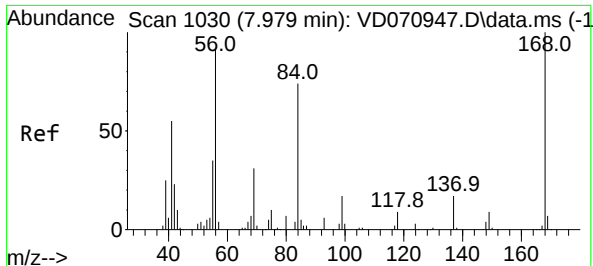
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111021\  
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Sample : M4519-03RE  
Misc : 5.06/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Nov 11 06:29:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 10 03:55:51 2021  
Response via : Initial Calibration

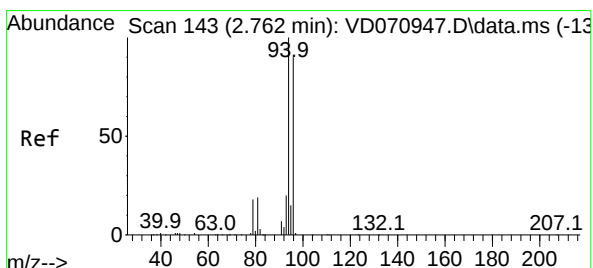
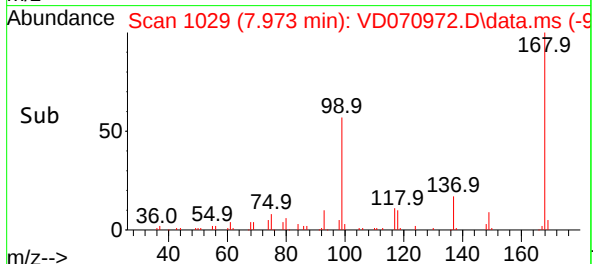
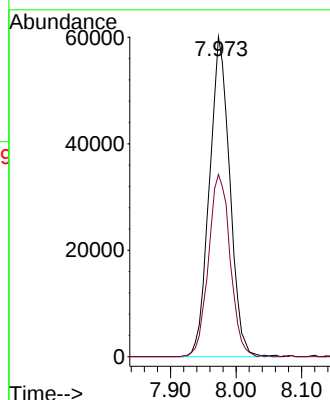
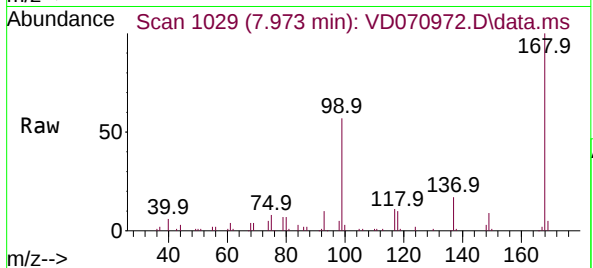




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

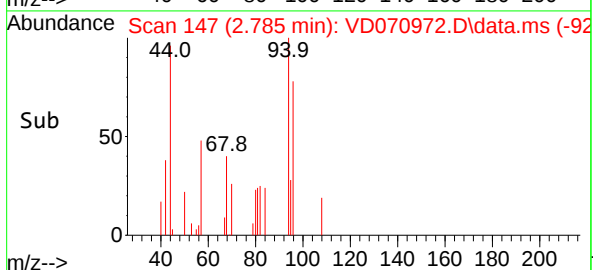
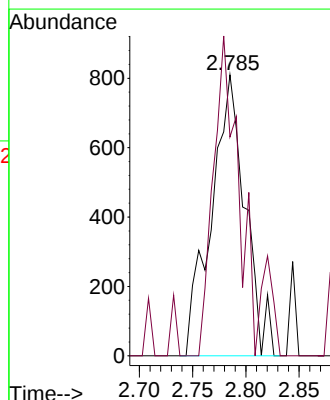
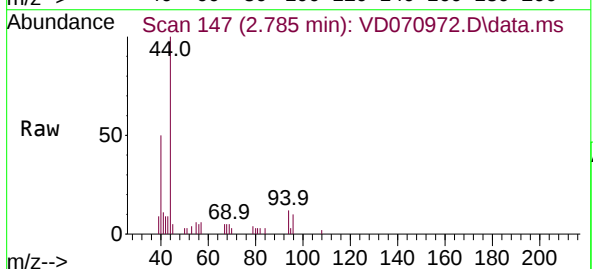
Instrument :  
MSVOA\_D  
ClientSampleId :

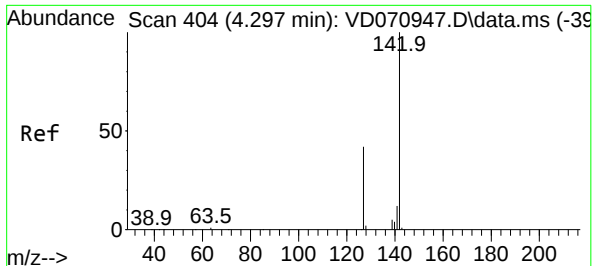
Tgt Ion:168 Resp: 129732  
Ion Ratio Lower Upper  
168 100  
99 57.0 46.6 69.8



#5  
Bromomethane  
Concen: 2.074 ug/l  
RT: 2.785 min Scan# 147  
Delta R.T. 0.023 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

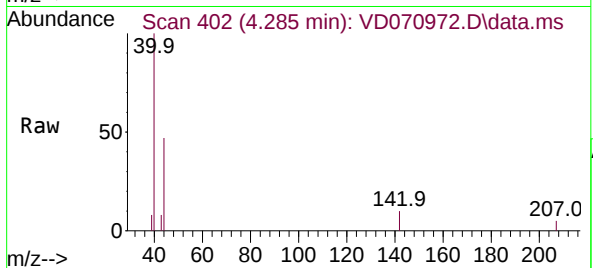
Tgt Ion: 94 Resp: 1793  
Ion Ratio Lower Upper  
94 100  
96 77.9 74.8 112.2



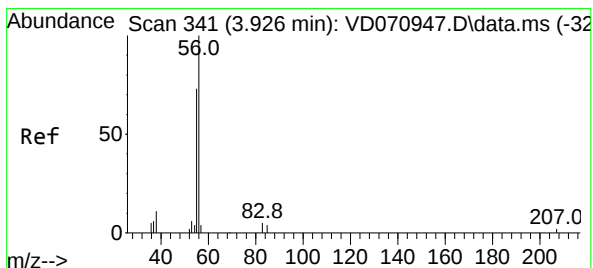
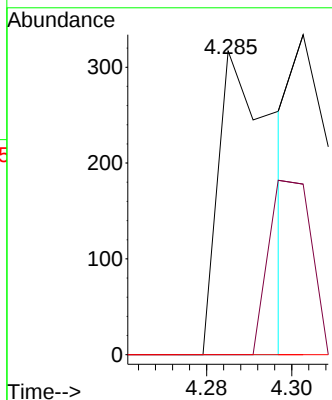
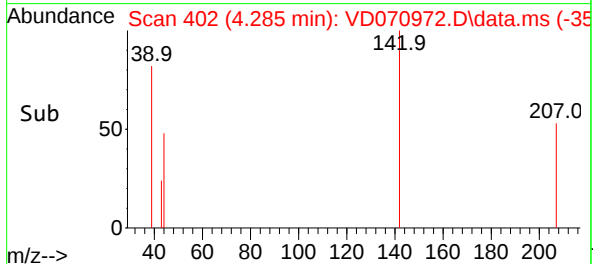


#10  
Methyl Iodide  
Concen: 6.190 ug/l  
RT: 4.285 min Scan# 404  
Delta R.T. -0.012 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Instrument :  
MSVOA\_D  
ClientSampleId :

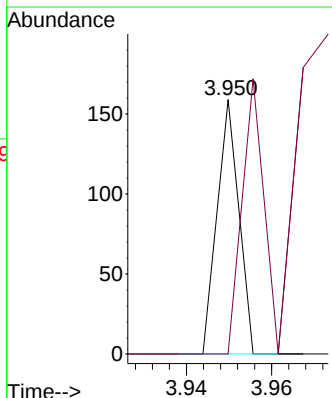
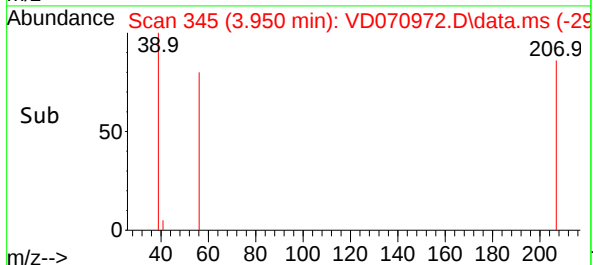
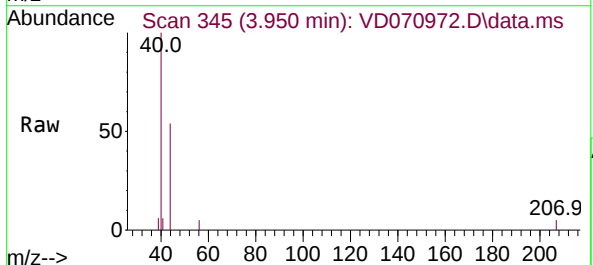


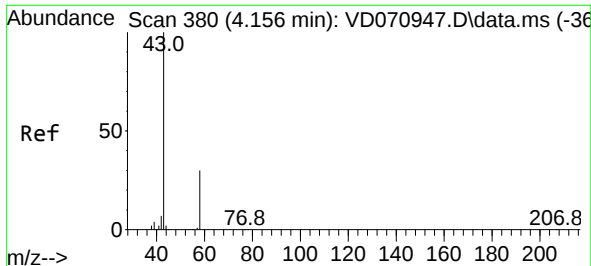
Tgt Ion:142 Resp: 288  
Ion Ratio Lower Upper  
142 100  
127 44.1 35.0 52.4  
141 0.0 12.0 18.0#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.950 min Scan# 345  
Delta R.T. 0.024 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion: 56 Resp: 56  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.6 87.8#

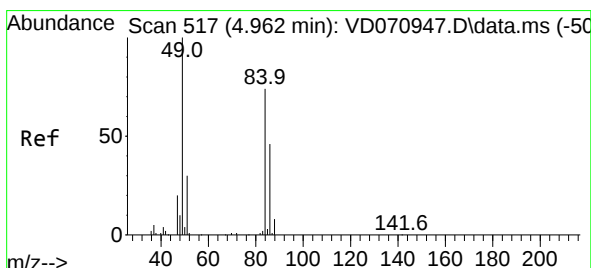
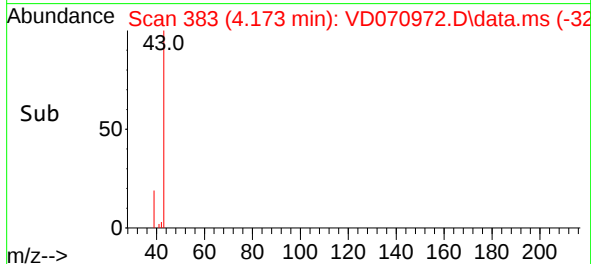
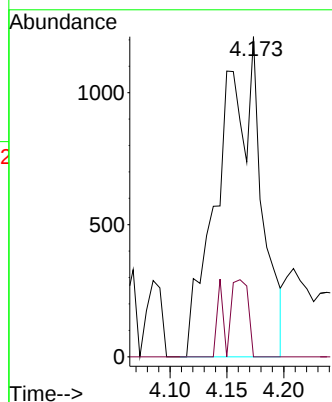
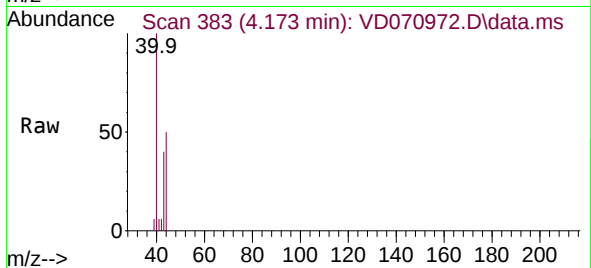




#16  
Acetone  
Concen: 27.446 ug/l  
RT: 4.173 min Scan# 380  
Delta R.T. 0.017 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

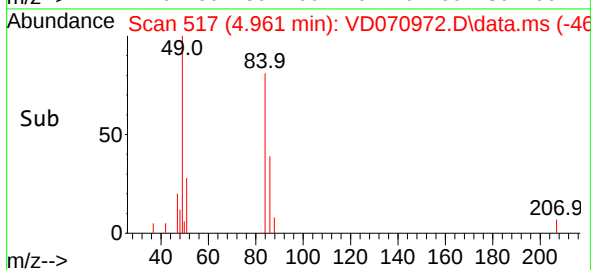
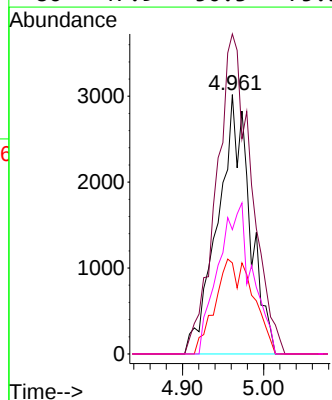
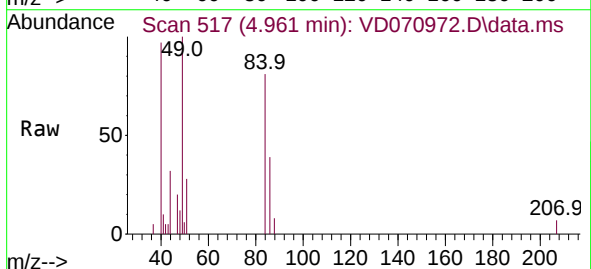
Instrument :  
MSVOA\_D  
ClientSampleId :

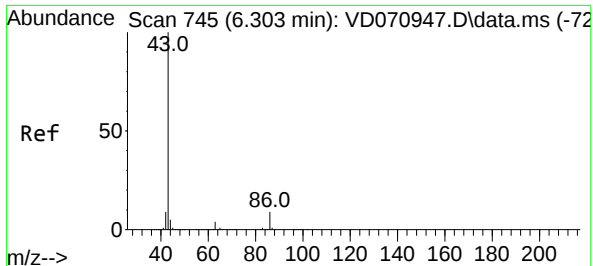
Tgt Ion: 43 Resp: 3099  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#



#20  
Methylene Chloride  
Concen: 4.890 ug/l  
RT: 4.961 min Scan# 517  
Delta R.T. -0.001 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion: 84 Resp: 8281  
Ion Ratio Lower Upper  
84 100  
49 123.3 95.8 143.6  
51 35.1 30.9 46.3  
86 47.9 50.3 75.5#

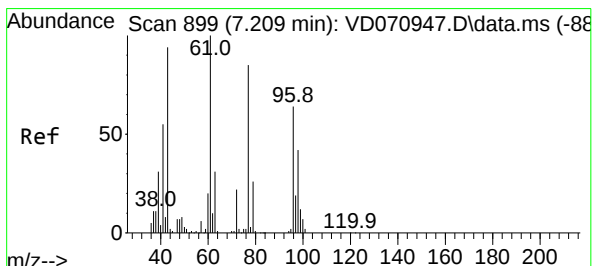
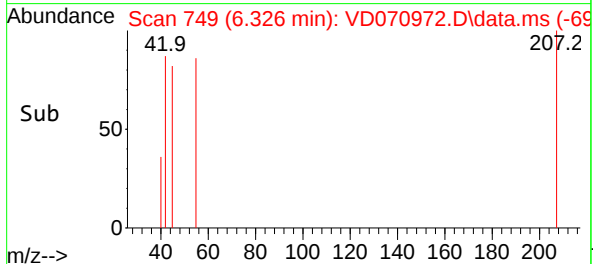
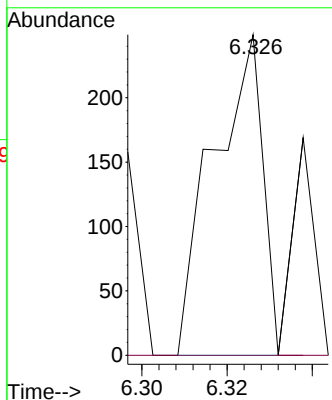
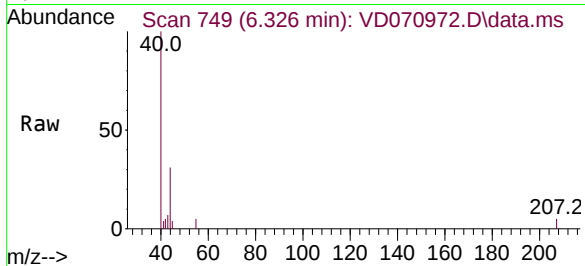




#23  
 Vinyl Acetate  
 Concen: 21.050 ug/l  
 RT: 6.326 min Scan# 745  
 Delta R.T. 0.023 min  
 Lab File: VD070972.D  
 Acq: 10 Nov 2021 16:09

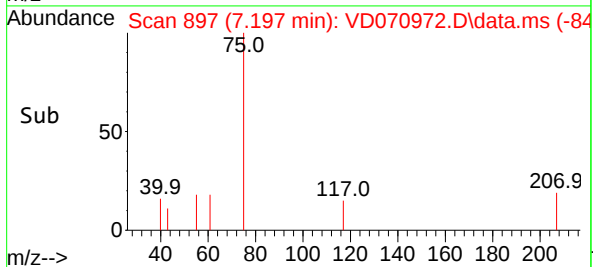
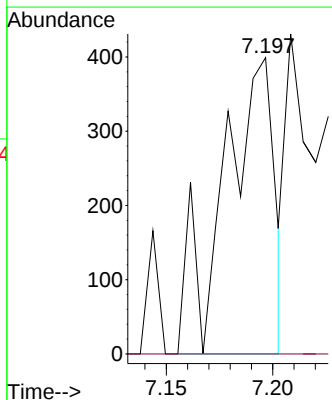
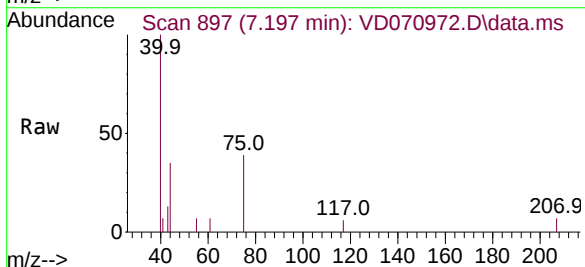
Instrument :  
 MSVOA\_D  
 ClientSampleId :

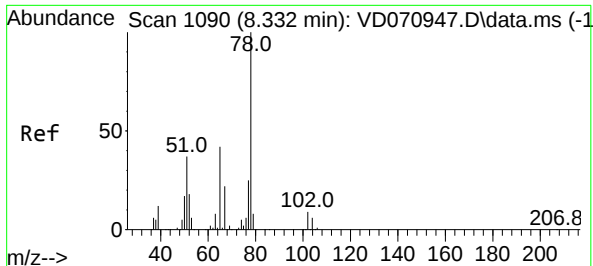
Tgt Ion: 43 Resp: 201  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.2 12.4#



#25  
 2-Butanone  
 Concen: 21.631 ug/l  
 RT: 7.197 min Scan# 897  
 Delta R.T. -0.012 min  
 Lab File: VD070972.D  
 Acq: 10 Nov 2021 16:09

Tgt Ion: 43 Resp: 663  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 23.8 35.6#





#33

1,2-Dichloroethane-d4

Concen: 73.154 ug/l

RT: 8.326 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VD070972.D

Acq: 10 Nov 2021 16:09

Instrument :

MSVOA\_D

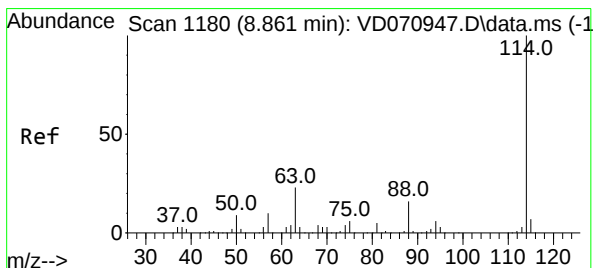
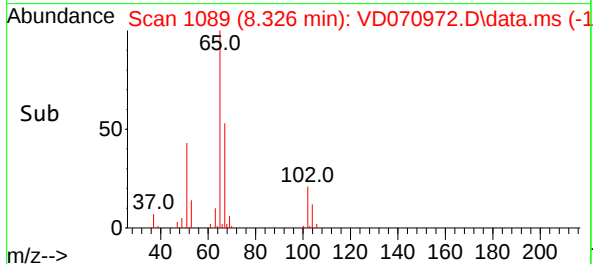
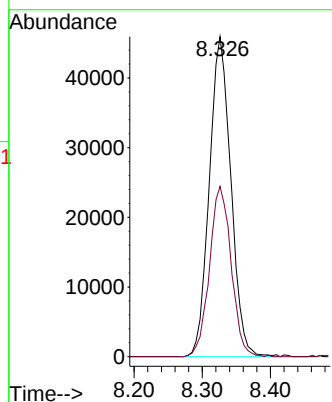
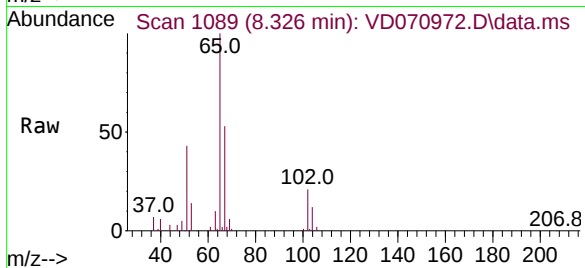
ClientSampleId :

Tgt Ion: 65 Resp: 101045

Ion Ratio Lower Upper

65 100

67 53.4 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070972.D

Acq: 10 Nov 2021 16:09

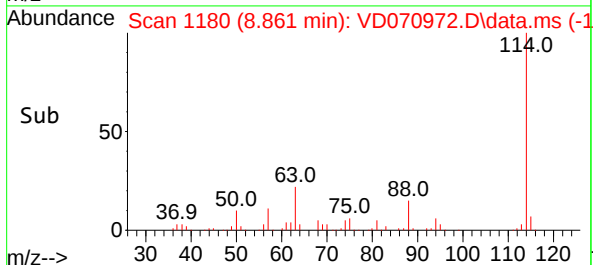
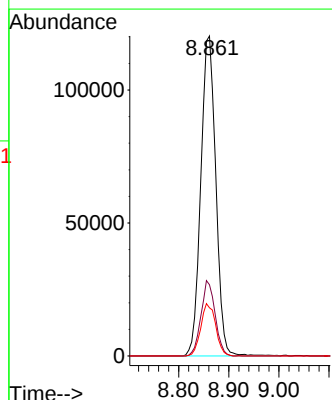
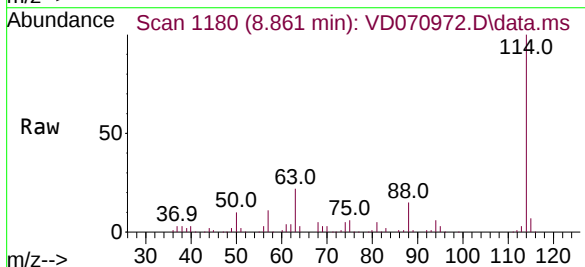
Tgt Ion: 114 Resp: 250352

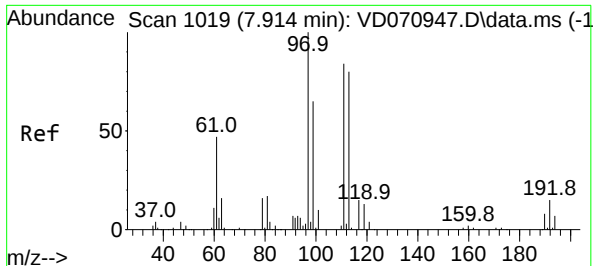
Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.8

88 15.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 56.363 ug/l

RT: 7.908 min Scan# 1019

Delta R.T. -0.006 min

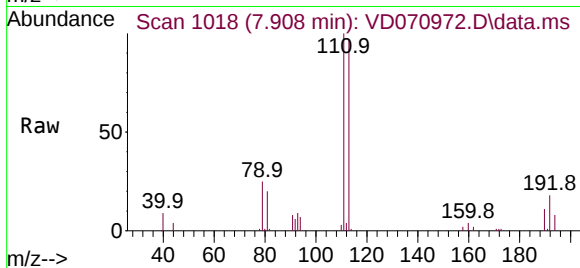
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Acq: 10 Nov 2021 16:09

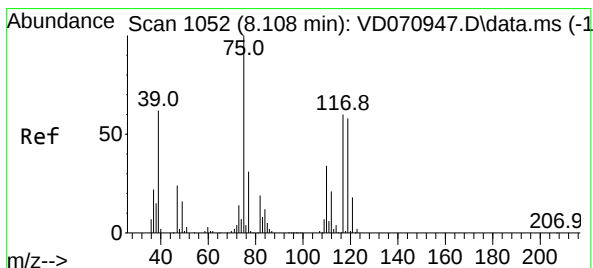
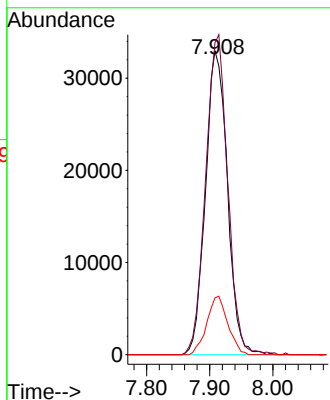
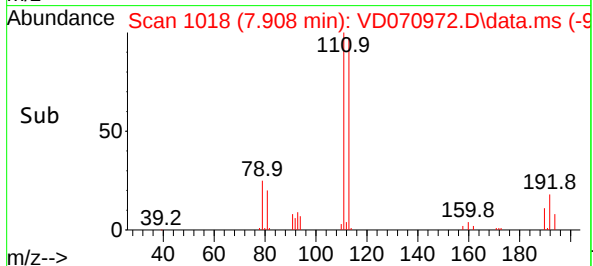
Instrument :

MSVOA\_D

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 79624 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 105.8 | 82.0  | 123.0 |
| 192      | 18.4  | 15.2  | 22.8  |



#36

1,1-Dichloropropene

Concen: 5.270 ug/l

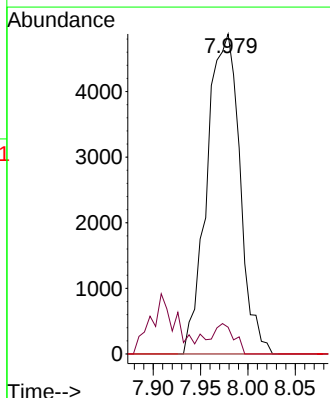
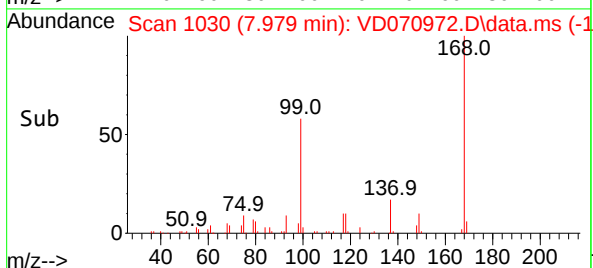
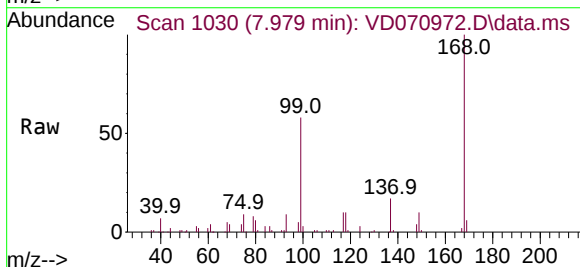
RT: 7.979 min Scan# 1030

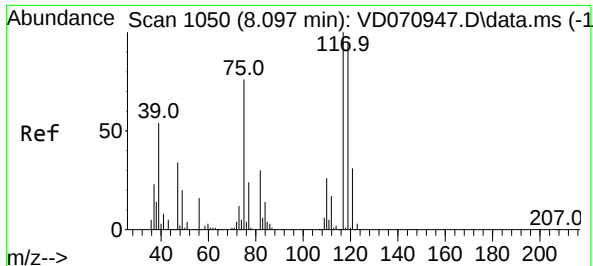
Delta R.T. -0.129 min

Lab File: VD070972.D

Acq: 10 Nov 2021 16:09

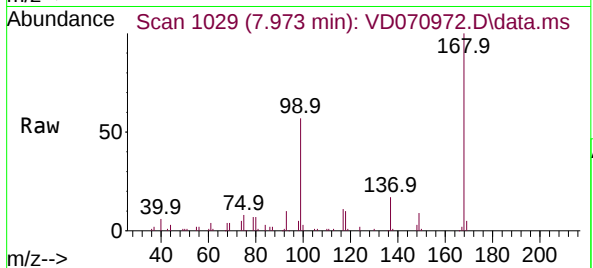
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11779 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 5.9   | 17.8  | 53.4# |
| 77       | 0.0   | 24.8  | 37.2# |



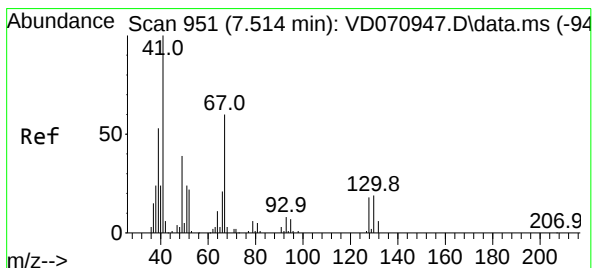
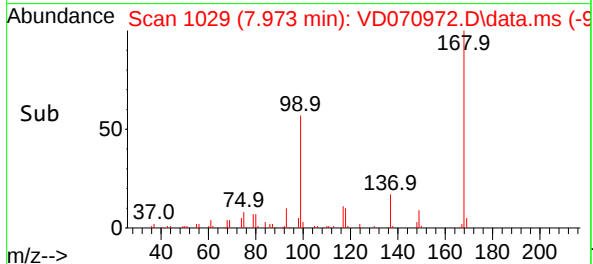
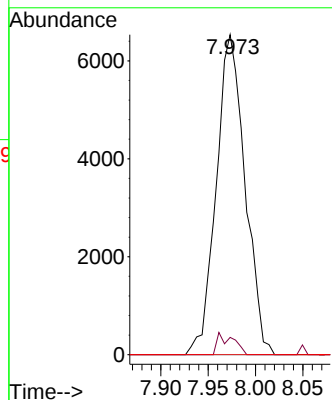


#38  
Carbon Tetrachloride  
Concen: 6.721 ug/l  
RT: 7.973 min Scan# 1050  
Delta R.T. -0.124 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Instrument :  
MSVOA\_D  
ClientSampleId :

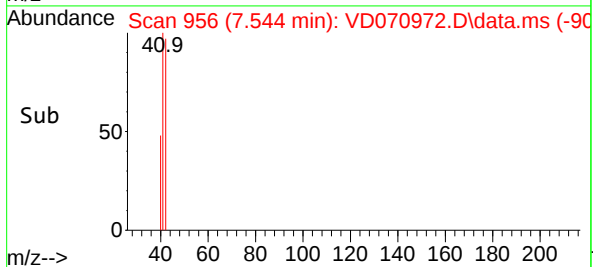
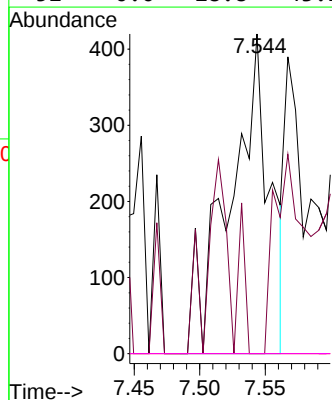
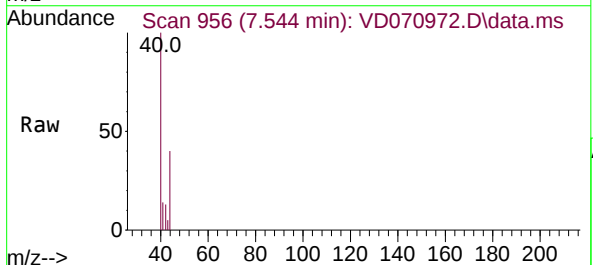


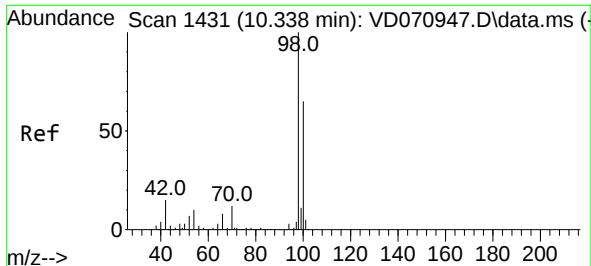
Tgt Ion:117 Resp: 13835  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.8 113.6#  
121 0.0 23.6 35.4#



#41  
Methacrylonitrile  
Concen: 4.605 ug/l  
RT: 7.544 min Scan# 956  
Delta R.T. 0.030 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion: 41 Resp: 888  
Ion Ratio Lower Upper  
41 100  
39 0.0 60.2 90.4#  
67 0.0 74.8 112.2#  
52 0.0 28.8 43.2#

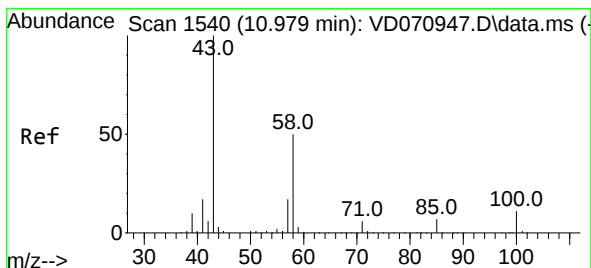
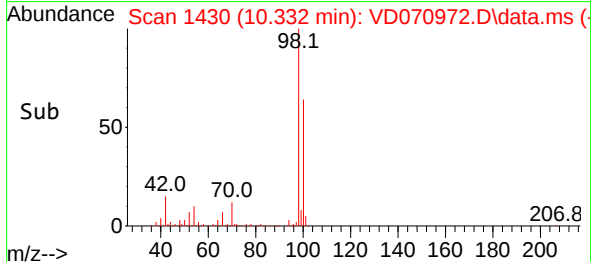
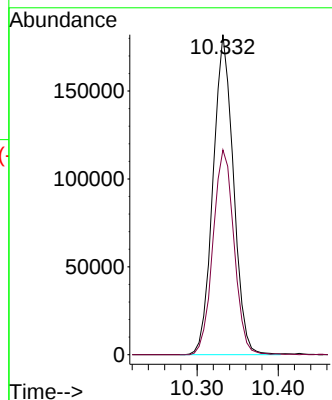
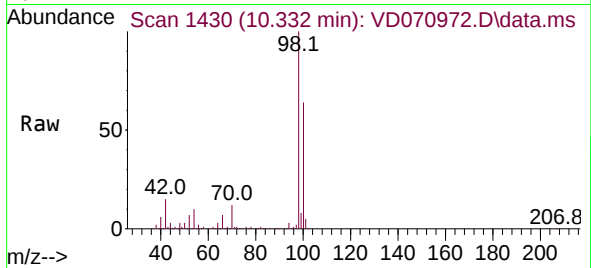




#50  
Toluene-d8  
Concen: 57.399 ug/l  
RT: 10.332 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

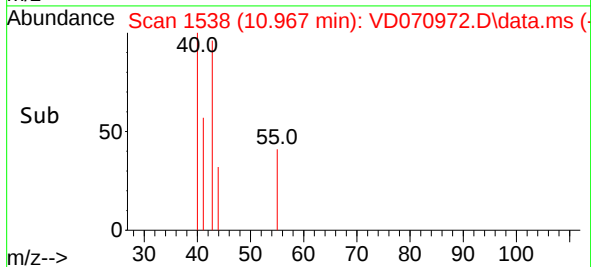
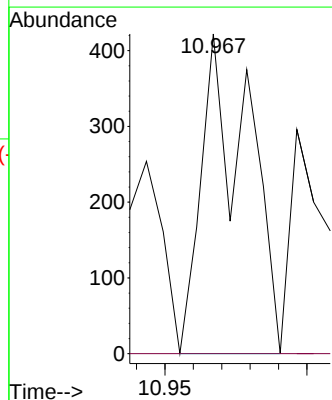
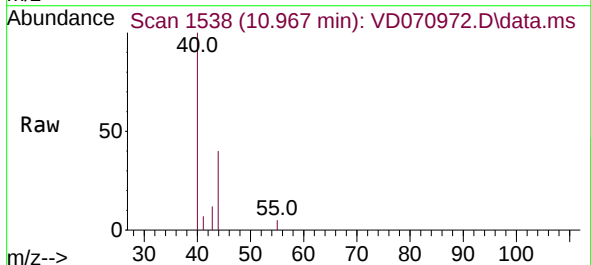
Instrument :  
MSVOA\_D  
ClientSampleId :

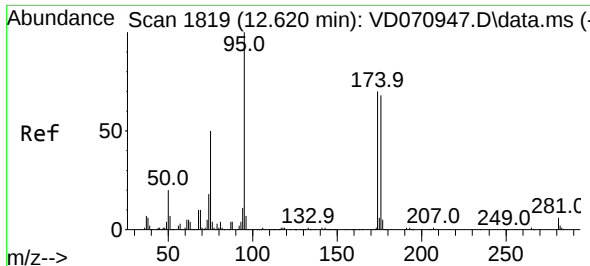
Tgt Ion: 98 Resp: 317555  
Ion Ratio Lower Upper  
98 100  
100 66.1 51.8 77.6



#59  
2-Hexanone  
Concen: 16.484 ug/l  
RT: 10.967 min Scan# 1538  
Delta R.T. -0.012 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion: 43 Resp: 480  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#

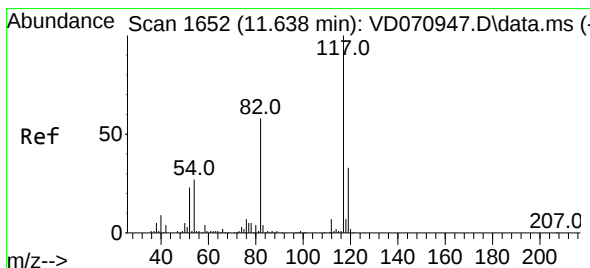
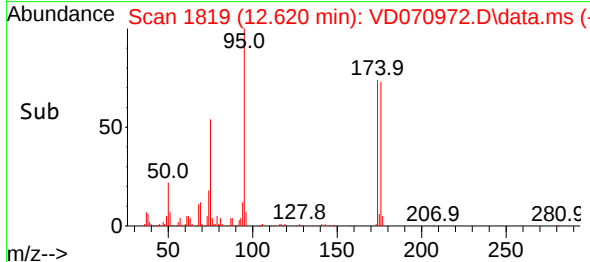
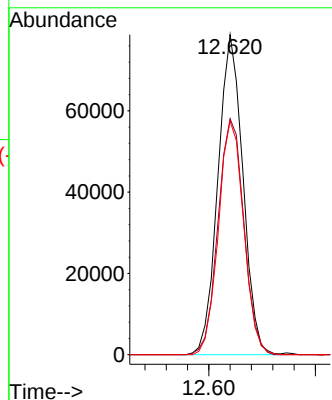
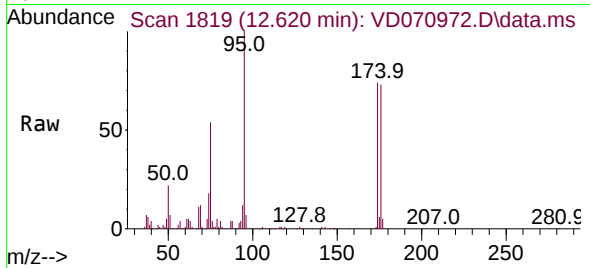




#62  
4-Bromofluorobenzene  
Concen: 64.149 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

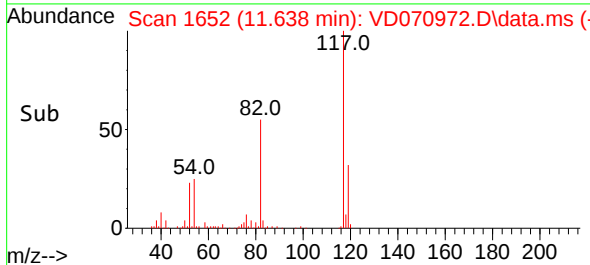
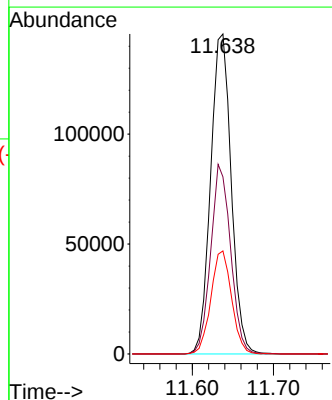
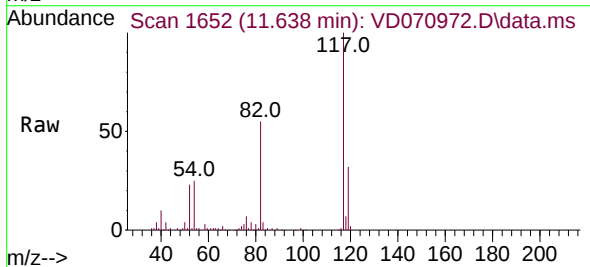
Instrument :  
MSVOA\_D  
ClientSampleId :

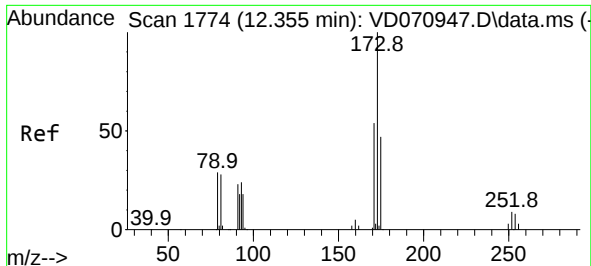
Tgt Ion: 95 Resp: 127785  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 159.4  
176 73.8 0.0 154.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion: 117 Resp: 256416  
Ion Ratio Lower Upper  
117 100  
82 55.4 44.7 67.1  
119 32.2 26.2 39.4

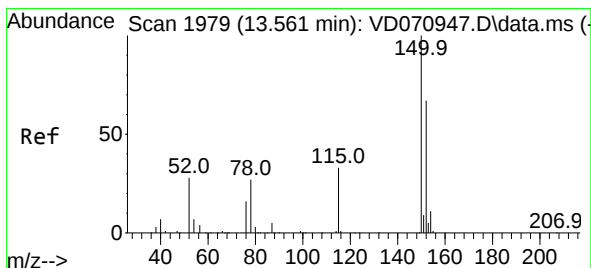
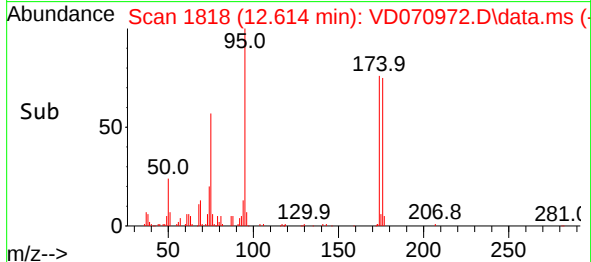
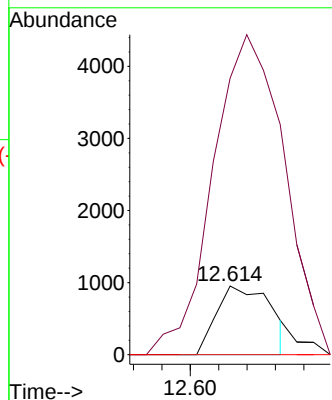
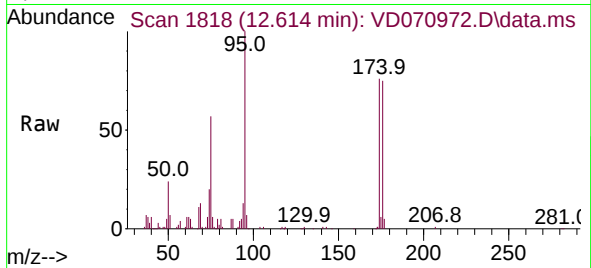




#71  
Bromoform  
Concen: 1.501 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. 0.259 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

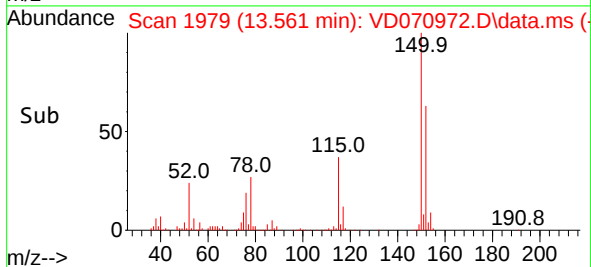
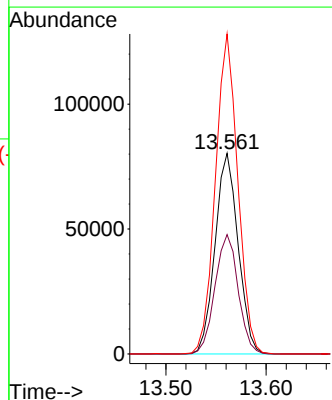
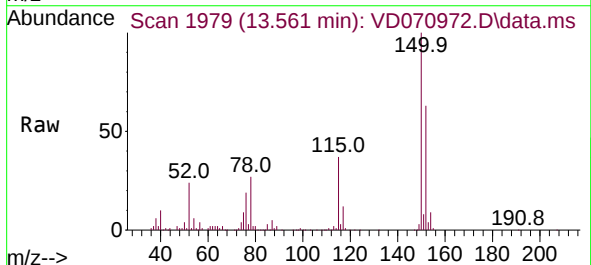
Instrument :  
MSVOA\_D  
ClientSampleId :

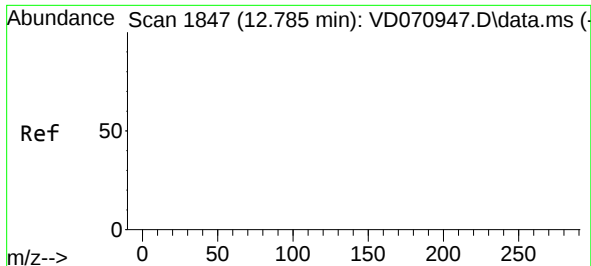
Tgt Ion:173 Resp: 1271  
Ion Ratio Lower Upper  
173 100  
175 548.1 24.1 72.2#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion:152 Resp: 128296  
Ion Ratio Lower Upper  
152 100  
115 59.8 29.8 89.3  
150 154.7 0.0 349.2

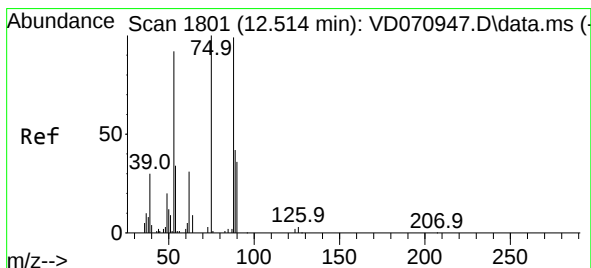
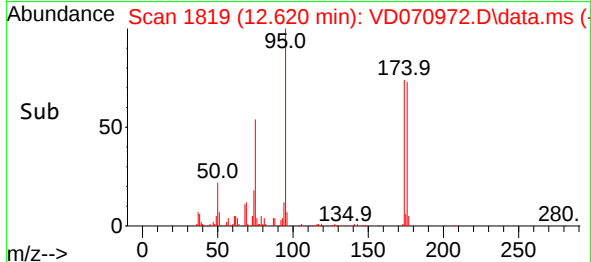
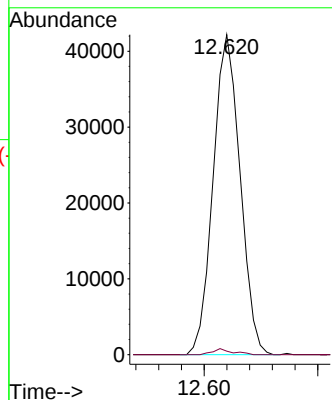
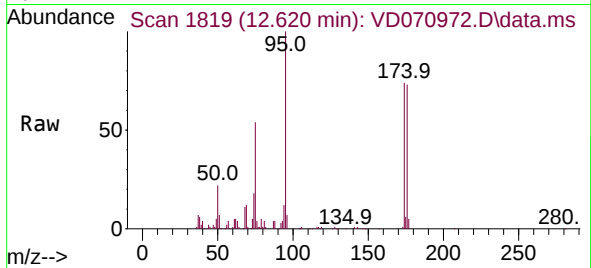




#76  
1,2,3-Trichloropropane  
Concen: 63.300 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.165 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 69371  
Ion Ratio Lower Upper  
75 100  
77 1.4 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 117.109 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD070972.D  
Acq: 10 Nov 2021 16:09

Tgt Ion: 75 Resp: 69371  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.1 34.5 51.7#

