

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
 Data File : VD073199.D  
 Acq On : 20 May 2022 22:44  
 Operator : VA/SY  
 Sample : N2885-01  
 Misc : 4.90G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P004-SS002-0006-01

Quant Time: May 21 00:17:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

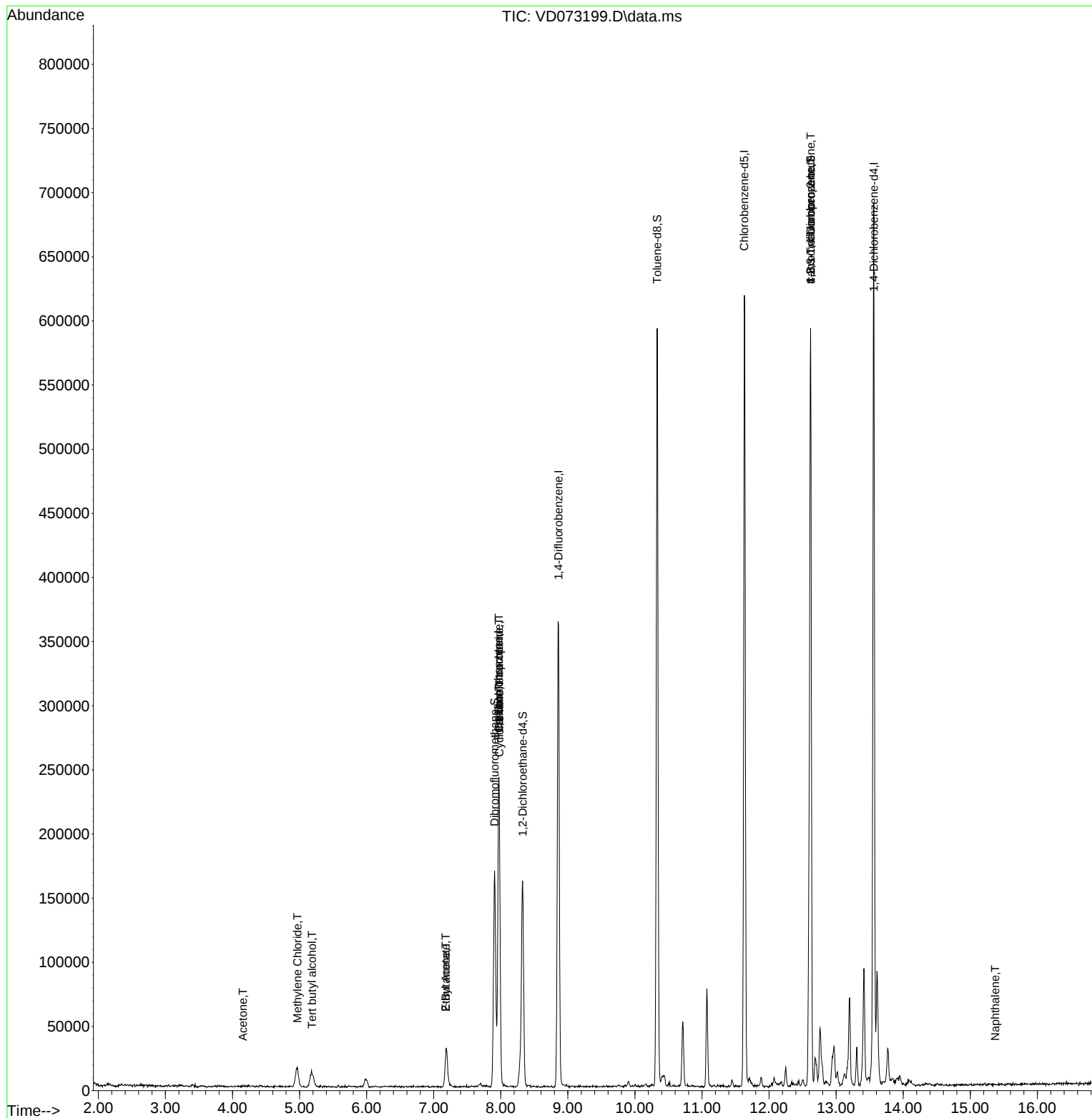
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.967  | 168   | 174848   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 313413   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 355330   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 174990   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 128888   | 66.701    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 133.400% |          |
| 35) Dibromofluoromethane      | 7.908  | 113   | 122765   | 59.361    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 118.720% |          |
| 50) Toluene-d8                | 10.332 | 98    | 395086   | 51.824    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 103.640% |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 170219   | 63.623    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 127.240% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.773  | 94    | 366      | Below Cal |            | 84       |
| 11) Tert butyl alcohol        | 5.185  | 59    | 12655    | 42.212    | ug/l #     | 75       |
| 16) Acetone                   | 4.156  | 43    | 1090     | 3.257     | ug/l #     | 47       |
| 20) Methylene Chloride        | 4.967  | 84    | 12361    | 1.988     | ug/l #     | 81       |
| 25) 2-Butanone                | 7.179  | 43    | 1566     | 3.198     | ug/l #     | 52       |
| 31) Cyclohexane               | 7.979  | 56    | 4425     | 1.310     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 15797    | 5.079     | ug/l #     | 50       |
| 37) Ethyl Acetate             | 7.179  | 43    | 1566     | 1.275     | ug/l #     | 1        |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 18842    | 5.976     | ug/l #     | 18       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 88051    | 51.283    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 88051    | 123.115   | ug/l #     | 9        |
| 95) Naphthalene               | 15.373 | 128   | 213      | 3.576     | ug/l #     | 70       |
| -----                         |        |       |          |           |            |          |

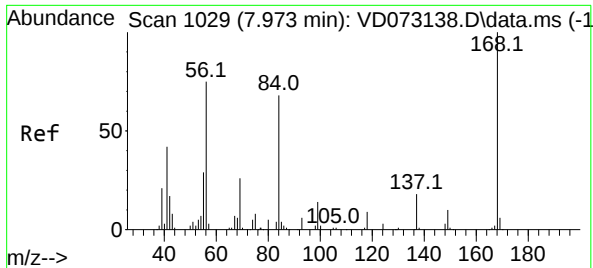
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

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Quant Title : SW846 8260  
QLast Update : Thu May 19 15:13:42 2022  
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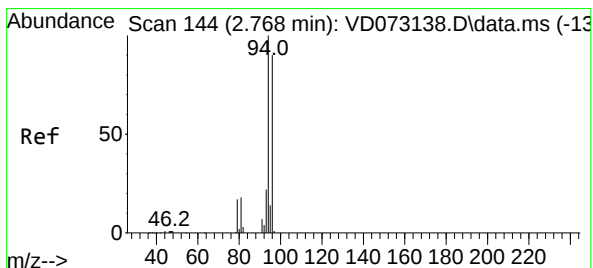
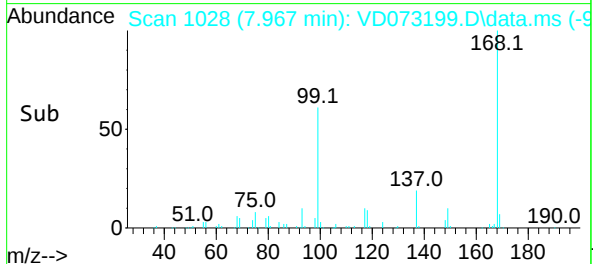
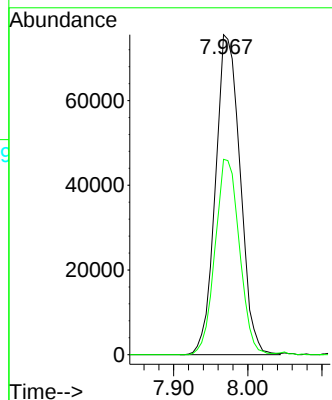
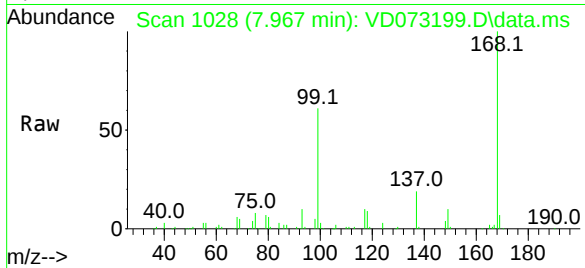




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.006 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

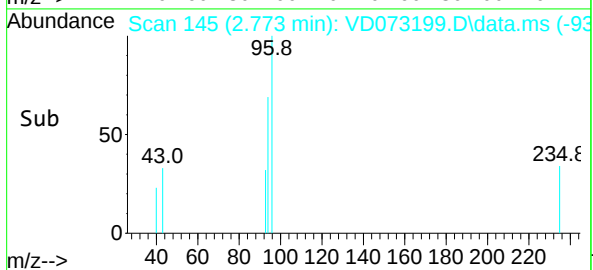
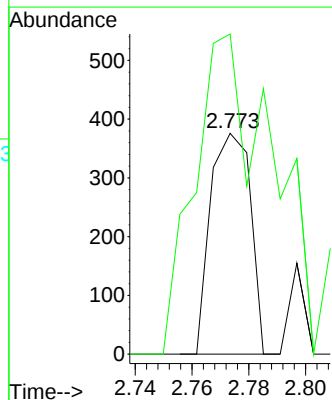
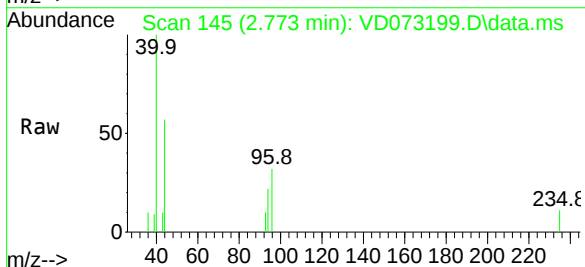
Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

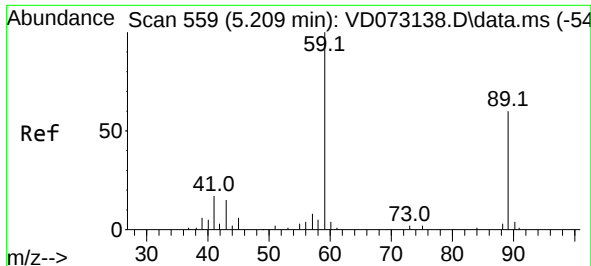
Tgt Ion:168 Resp: 174848  
Ion Ratio Lower Upper  
168 100  
99 61.0 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.005 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Tgt Ion: 94 Resp: 366  
Ion Ratio Lower Upper  
94 100  
96 81.6 77.6 116.4

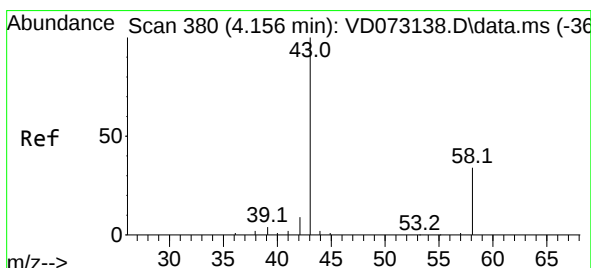
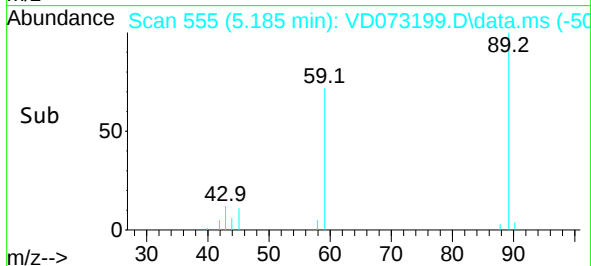
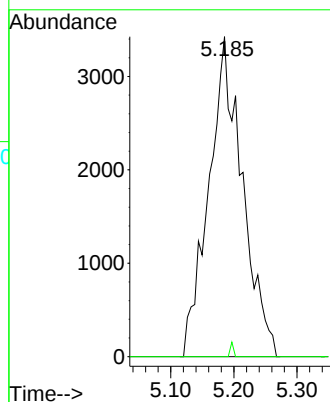
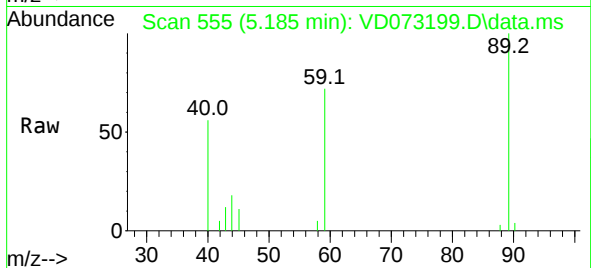




#11  
Tert butyl alcohol  
Concen: 42.212 ug/l  
RT: 5.185 min Scan# 51  
Delta R.T. -0.024 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

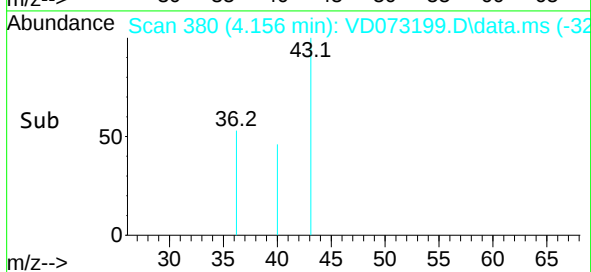
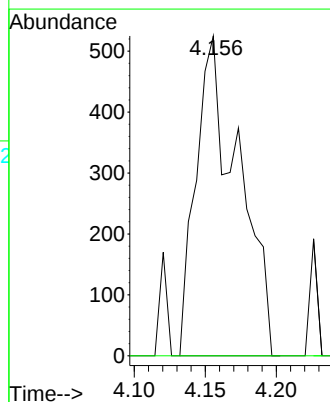
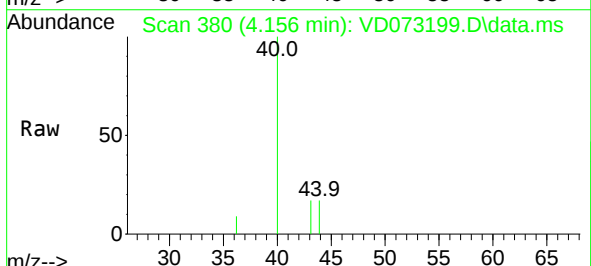
Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

Tgt Ion: 59 Resp: 12655  
Ion Ratio Lower Upper  
59 100  
57 0.4 7.8 11.6#



#16  
Acetone  
Concen: 3.257 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Tgt Ion: 43 Resp: 1090  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.1 33.1#

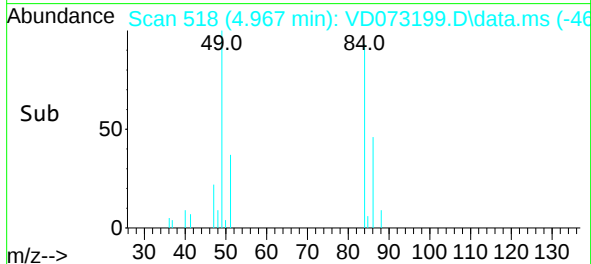
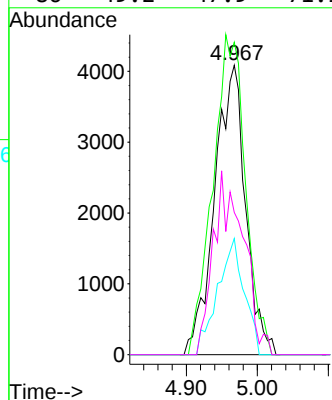
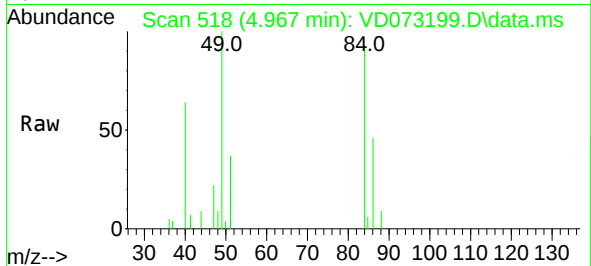




#20  
Methylene Chloride  
Concen: 1.988 ug/l  
RT: 4.967 min Scan# 517  
Delta R.T. 0.005 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

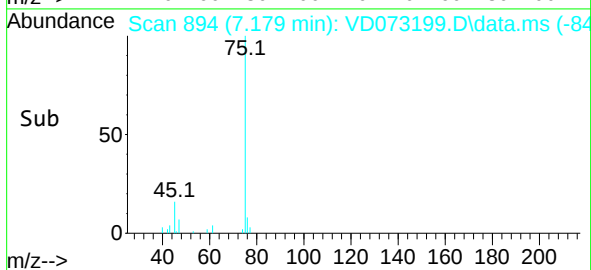
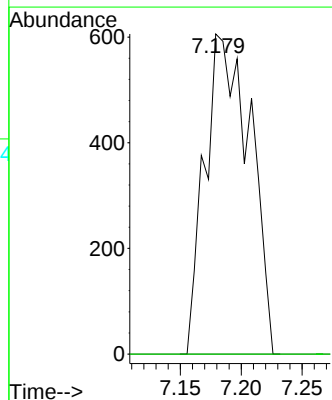
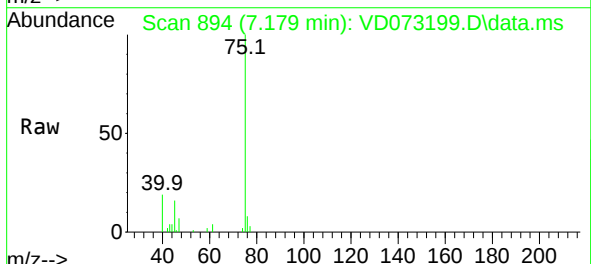
Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

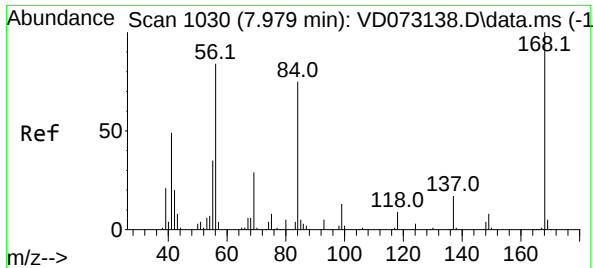
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 12361  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 107.9 | 112.8 | 169.2# |
| 51       | 40.1  | 32.6  | 48.8   |
| 86       | 49.2  | 47.9  | 71.9   |



#25  
2-Butanone  
Concen: 3.198 ug/l  
RT: 7.179 min Scan# 894  
Delta R.T. -0.029 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1566  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 18.6  | 27.8# |

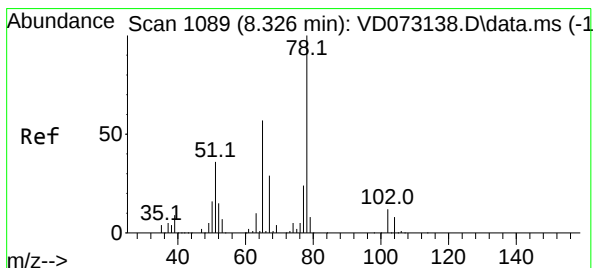
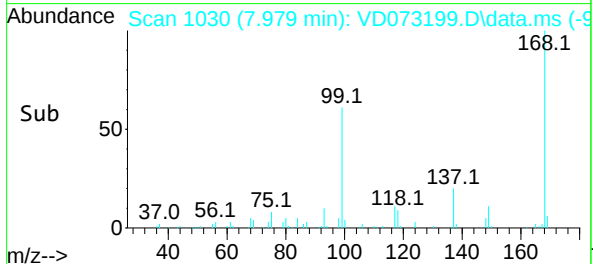
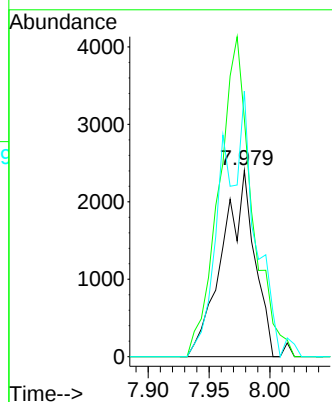
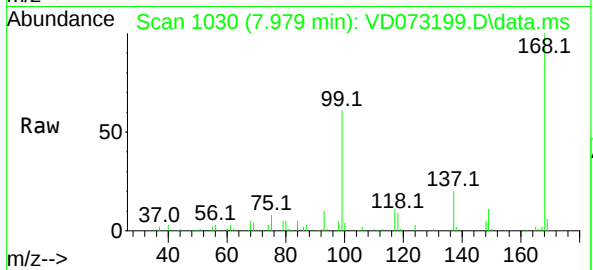




#31  
Cyclohexane  
Concen: 1.310 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

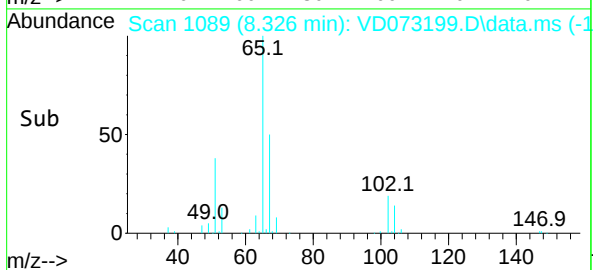
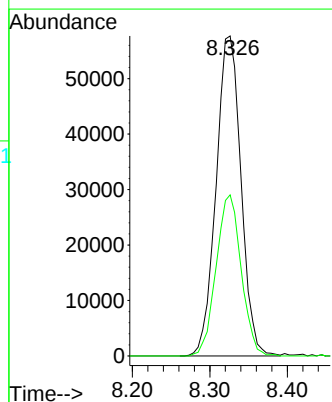
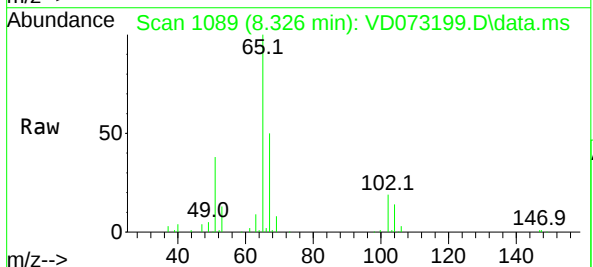
Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

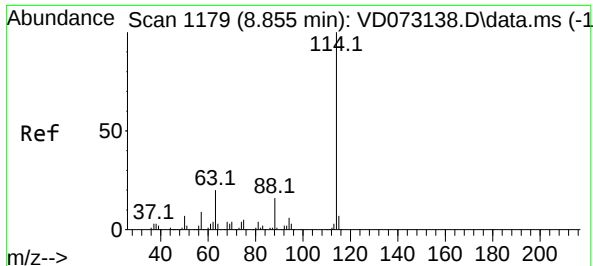
Tgt Ion: 56 Resp: 4425  
Ion Ratio Lower Upper  
56 100  
69 127.6 25.4 38.2#  
84 142.6 63.0 94.4#



#33  
1,2-Dichloroethane-d4  
Concen: 66.701 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Tgt Ion: 65 Resp: 128888  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1179

Delta R.T. 0.006 min

Lab File: VD073199.D

Acq: 20 May 2022 22:44

Instrument :

MSVOA\_D

ClientSampleId :

P004-SS002-0006-01

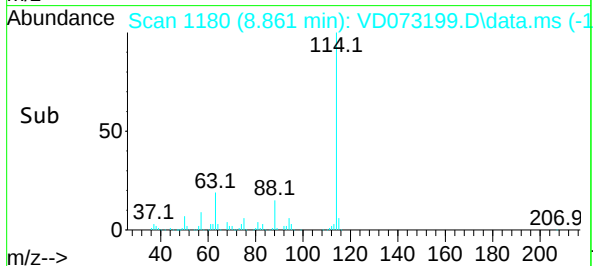
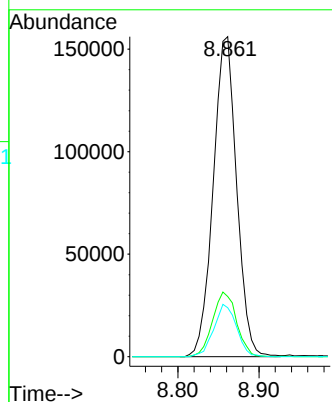
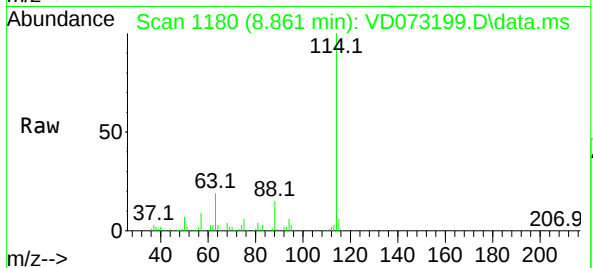
Tgt Ion:114 Resp: 313413

Ion Ratio Lower Upper

114 100

63 18.8 0.0 46.6

88 15.3 0.0 33.2



#35

Dibromofluoromethane

Concen: 59.361 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD073199.D

Acq: 20 May 2022 22:44

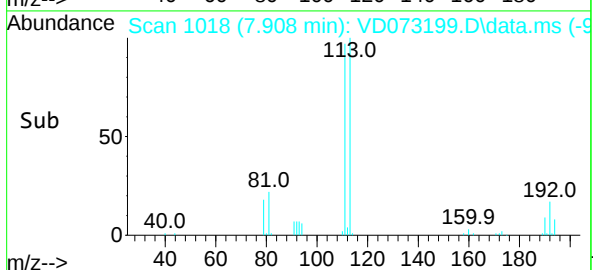
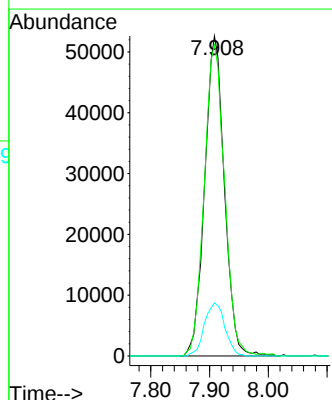
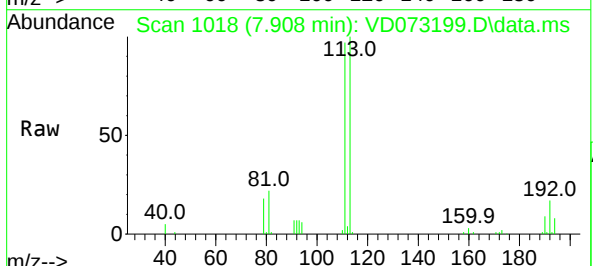
Tgt Ion:113 Resp: 122765

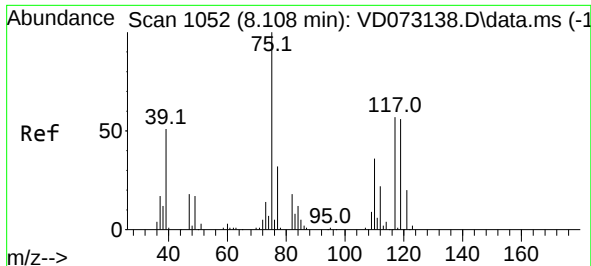
Ion Ratio Lower Upper

113 100

111 100.1 83.8 125.6

192 17.2 14.6 21.8





#36

1,1-Dichloropropene

Concen: 5.079 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD073199.D

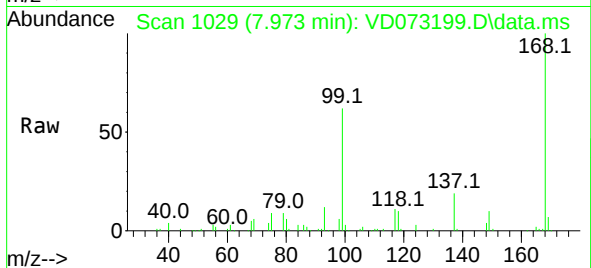
Acq: 20 May 2022 22:44

Instrument :

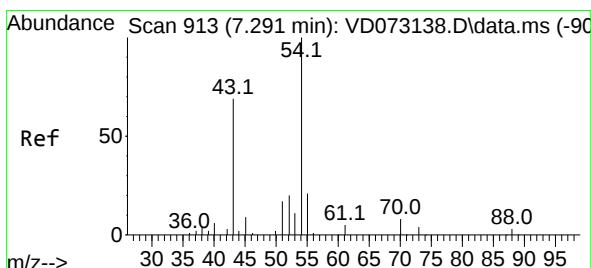
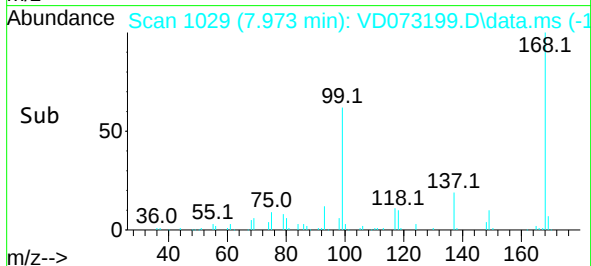
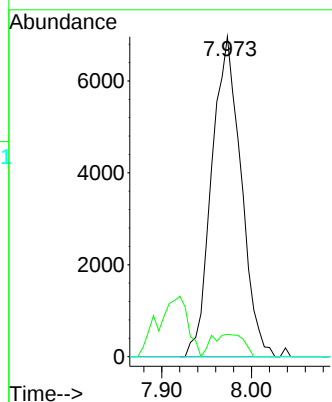
MSVOA\_D

ClientSampleId :

P004-SS002-0006-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 15797 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.7   | 16.4  | 49.1# |
| 77       | 0.0   | 24.2  | 36.2# |



#37

Ethyl Acetate

Concen: 1.275 ug/l

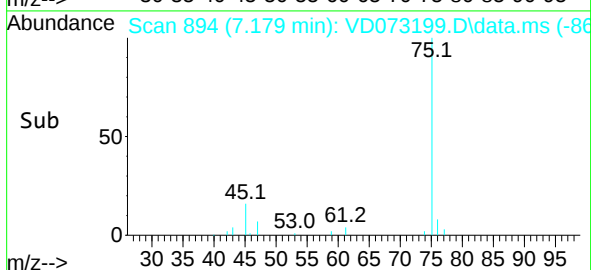
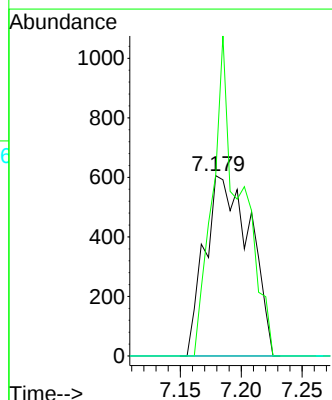
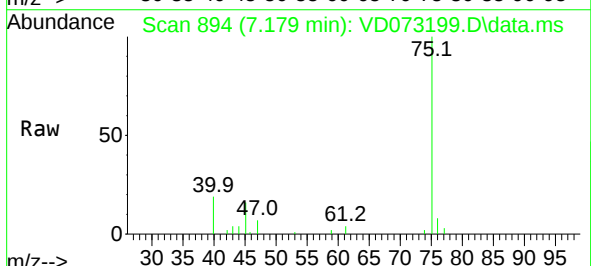
RT: 7.179 min Scan# 894

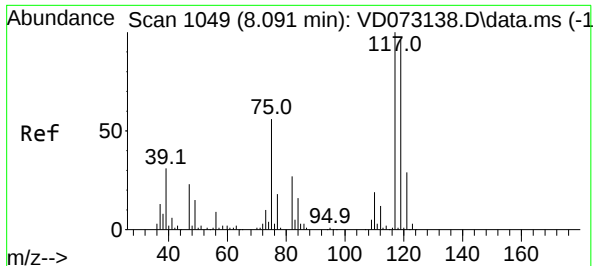
Delta R.T. -0.112 min

Lab File: VD073199.D

Acq: 20 May 2022 22:44

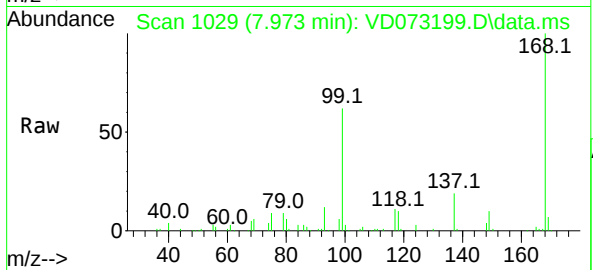
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1566  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 110.6 | 9.8   | 14.8# |
| 70       | 0.0   | 6.9   | 10.3# |



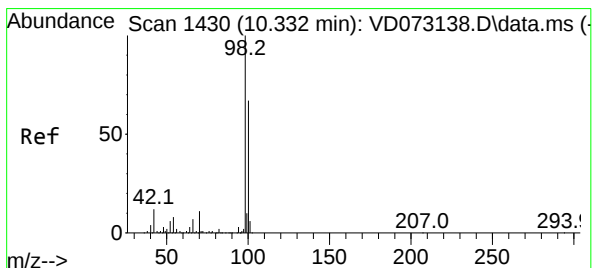
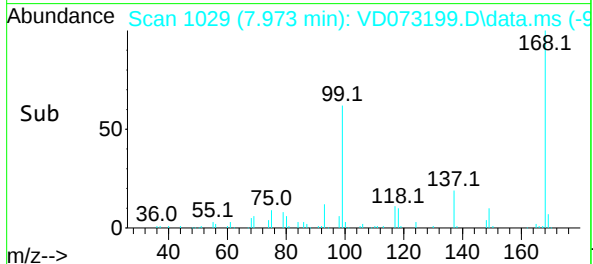
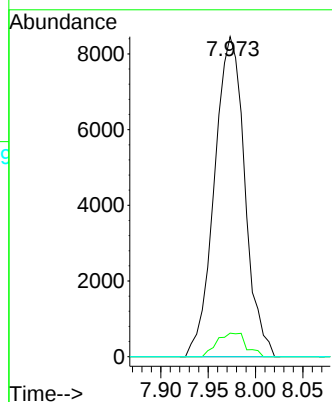


#38  
Carbon Tetrachloride  
Concen: 5.976 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.118 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

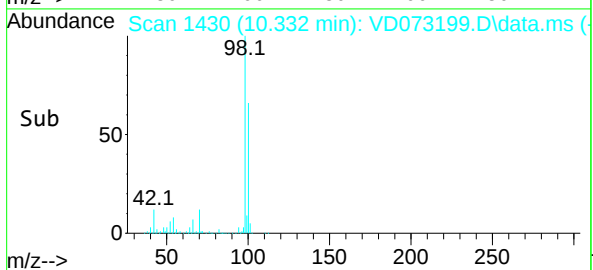
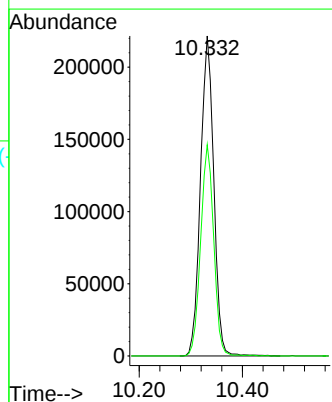
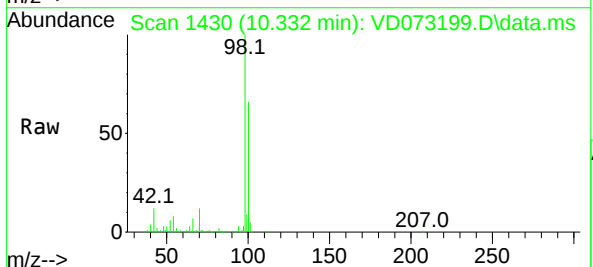


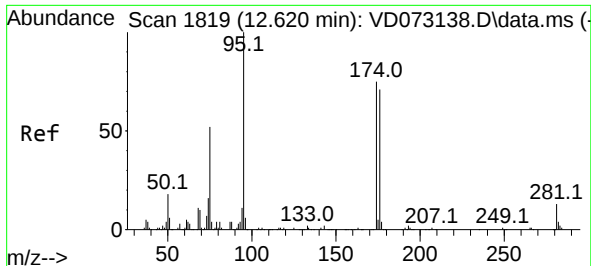
Tgt Ion:117 Resp: 18842  
Ion Ratio Lower Upper  
117 100  
119 7.4 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 51.824 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Tgt Ion: 98 Resp: 395086  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.4 78.6

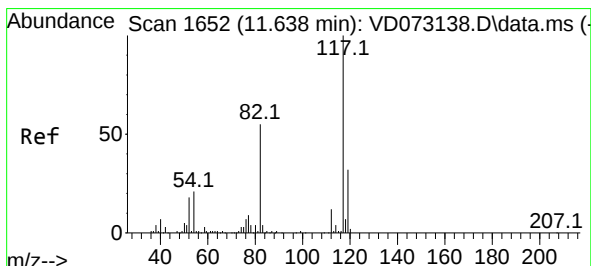
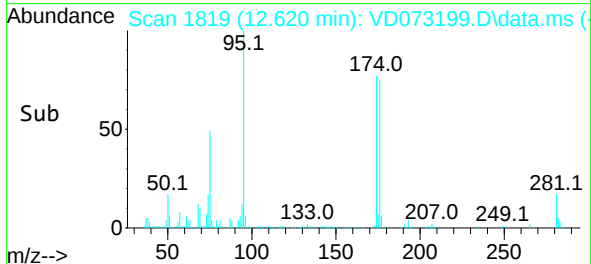
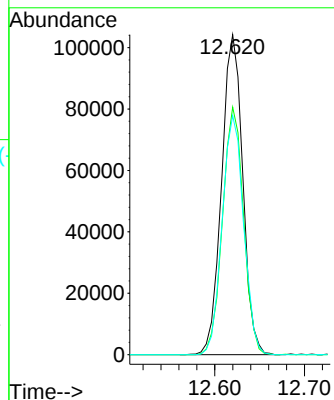
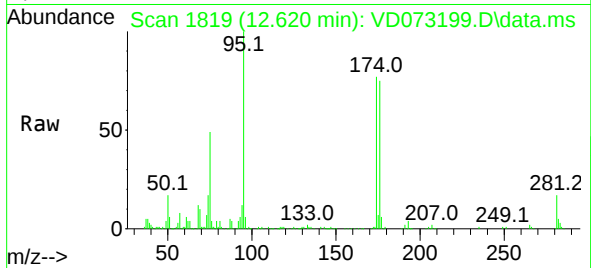




#62  
4-Bromofluorobenzene  
Concen: 63.623 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

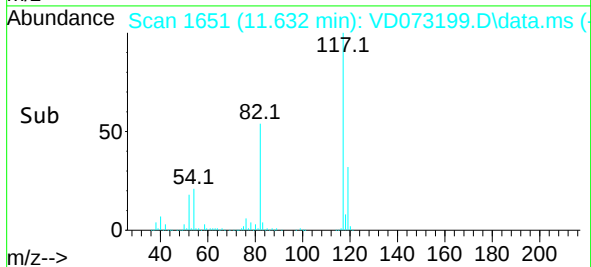
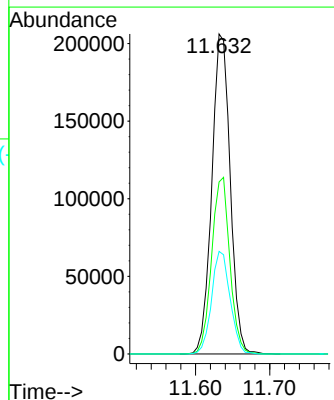
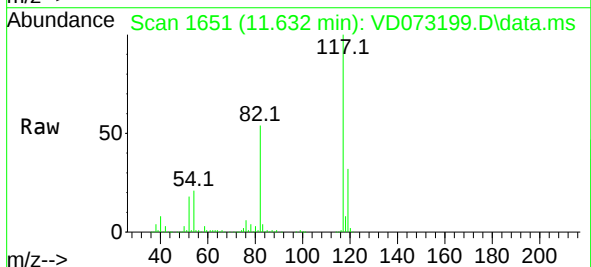
Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

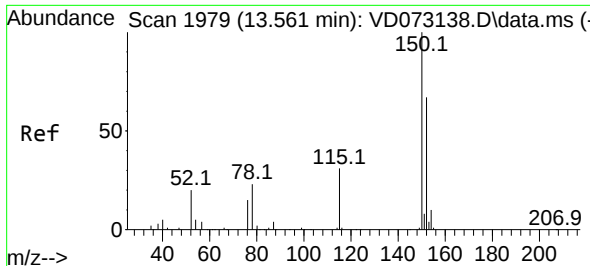
Tgt Ion: 95 Resp: 170219  
Ion Ratio Lower Upper  
95 100  
174 76.7 0.0 152.8  
176 75.9 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.006 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Tgt Ion: 117 Resp: 355330  
Ion Ratio Lower Upper  
117 100  
82 53.7 45.3 67.9  
119 32.1 26.6 40.0

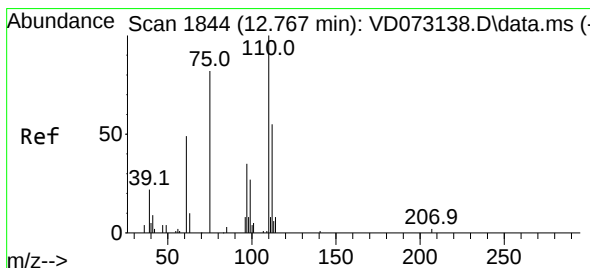
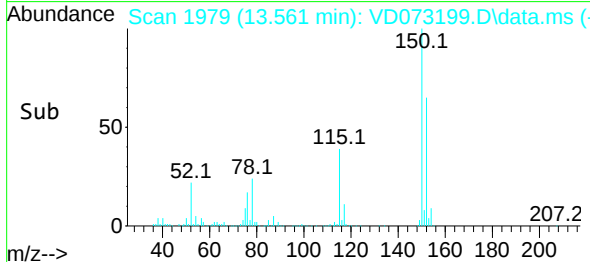
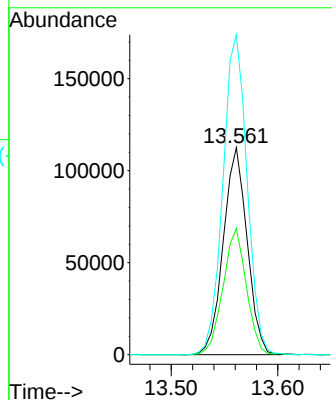
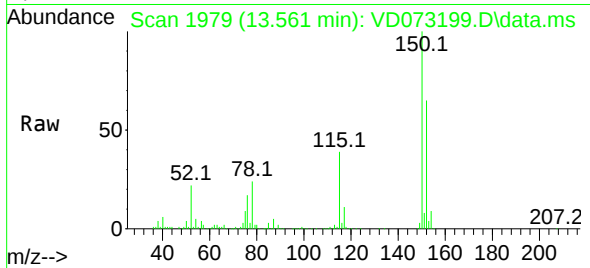




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VD073199.D  
 Acq: 20 May 2022 22:44

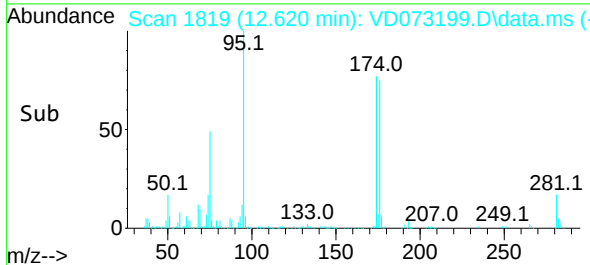
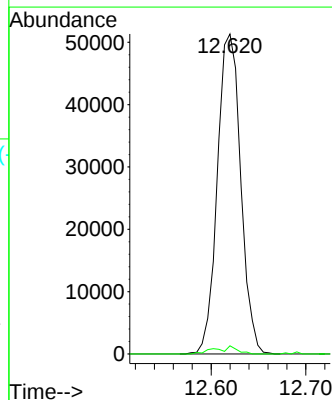
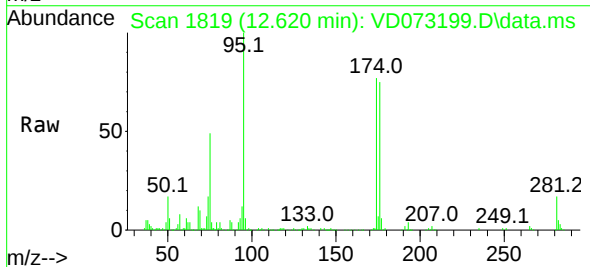
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P004-SS002-0006-01

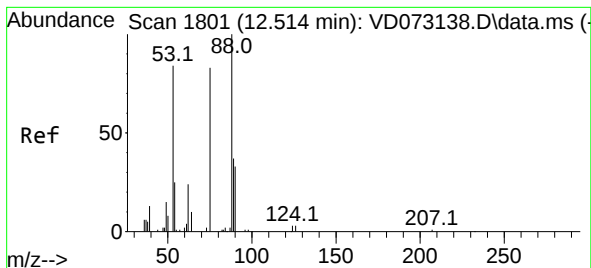
Tgt Ion:152 Resp: 174990  
 Ion Ratio Lower Upper  
 152 100  
 115 59.8 31.3 93.8  
 150 156.6 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 51.283 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.147 min  
 Lab File: VD073199.D  
 Acq: 20 May 2022 22:44

Tgt Ion: 75 Resp: 88051  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#

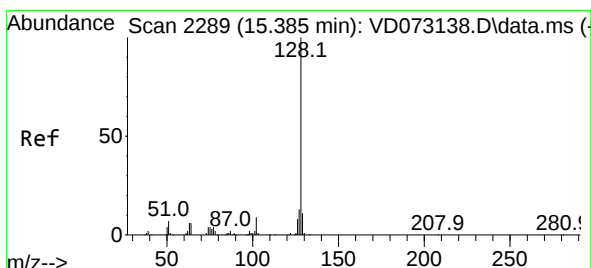
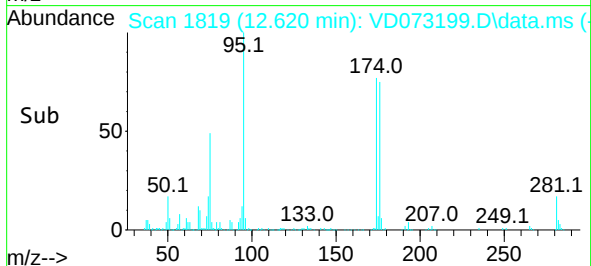
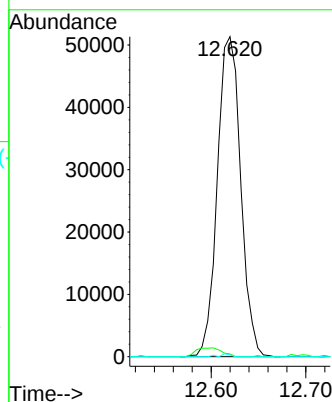
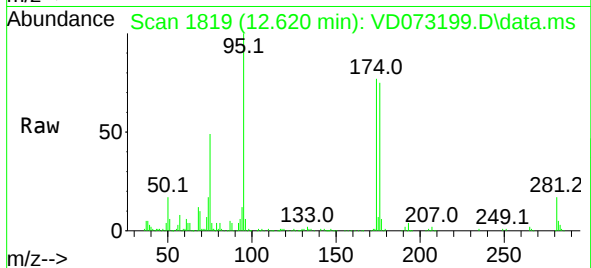




#81  
trans-1,4-Dichloro-2-butene  
Concen: 123.115 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
P004-SS002-0006-01

Tgt Ion: 75 Resp: 88051  
Ion Ratio Lower Upper  
75 100  
53 3.1 86.5 129.7#  
89 0.4 33.9 50.9#



#95  
Naphthalene  
Concen: 3.576 ug/l  
RT: 15.373 min Scan# 2287  
Delta R.T. -0.012 min  
Lab File: VD073199.D  
Acq: 20 May 2022 22:44

Tgt Ion: 128 Resp: 213  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.4 12.6#

