

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031522\  
 Data File : VD072189.D  
 Acq On : 15 Mar 2022 15:21  
 Operator : VA/SY  
 Sample : N1851-09  
 Misc : 5.03G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DUM-38

Quant Time: Mar 15 17:46:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

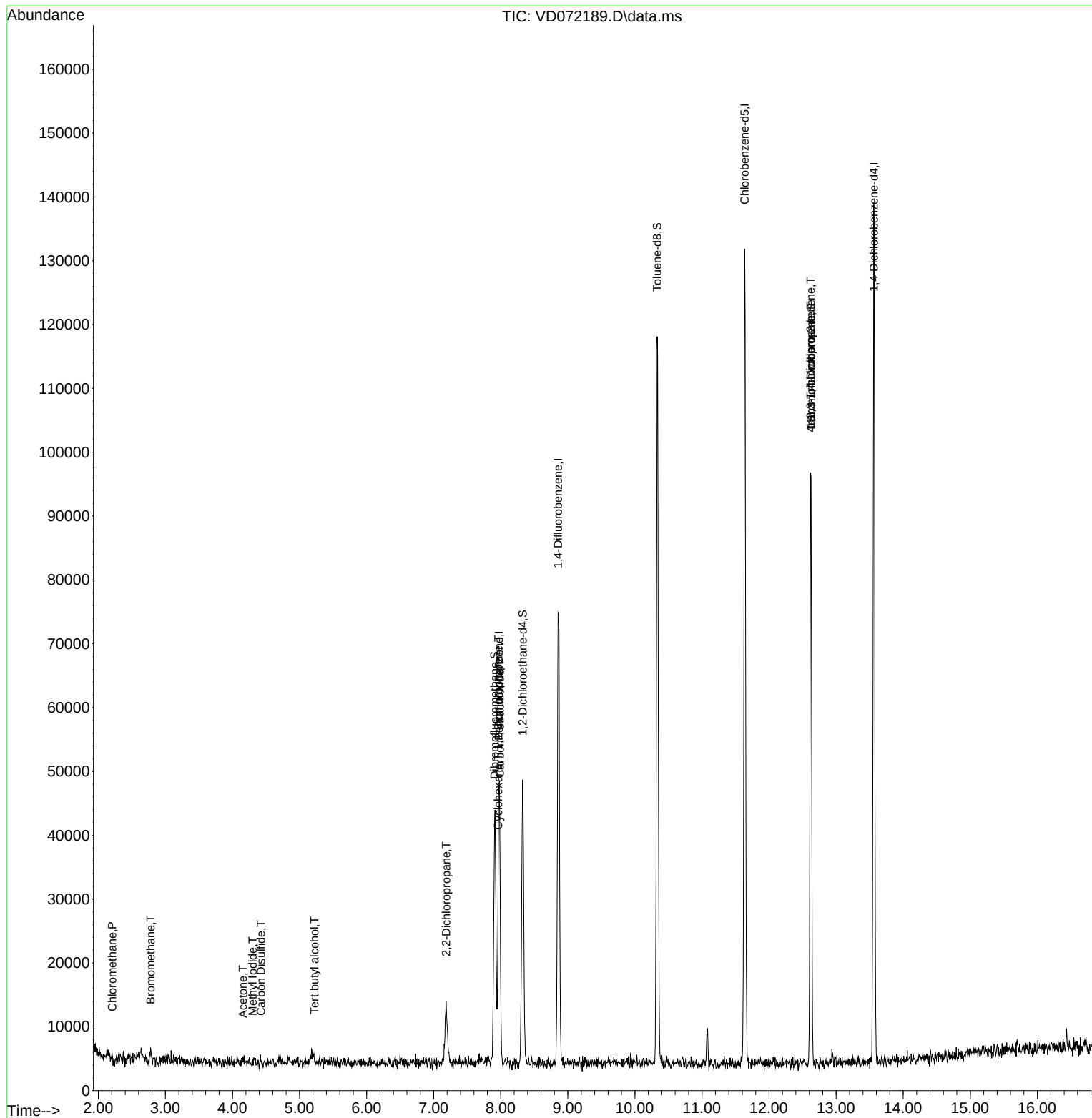
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 32942                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855          | 114  | 65183                | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 71421                | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 35893                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 36001                | 98.063    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 196.120%# |           |        |          |
| 35) Dibromofluoromethane      | 7.908          | 113  | 28785                | 62.754    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 125.500%  |           |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 77862                | 46.423    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 92.840%   |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 31294                | 48.019    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 96.040%   |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      | Qvalue               |           |        |          |
| 3) Chloromethane              | 2.209          | 50   | 492                  | 1.817     | ug/l   | 95       |
| 5) Bromomethane               | 2.779          | 94   | 973                  | 5.717     | ug/l # | 52       |
| 10) Methyl Iodide             | 4.303          | 142  | 945                  | 4.905     | ug/l # | 46       |
| 11) Tert butyl alcohol        | 5.220          | 59   | 279                  | 13.107    | ug/l # | 74       |
| 16) Acetone                   | 4.156          | 43   | 971                  | 12.182    | ug/l # | 47       |
| 17) Carbon Disulfide          | 4.426          | 76   | 61                   | 1.584     | ug/l # | 74       |
| 20) Methylene Chloride        | 4.944          | 84   | 55                   | Below Cal | #      | 53       |
| 26) 2,2-Dichloropropane       | 7.185          | 77   | 927                  | 1.443     | ug/l # | 54       |
| 31) Cyclohexane               | 7.961          | 56   | 797                  | 1.390     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.967          | 75   | 3417                 | 5.310     | ug/l # | 43       |
| 38) Carbon Tetrachloride      | 7.985          | 117  | 3538                 | 4.837     | ug/l # | 13       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 16183                | 40.873    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 16183                | 101.411   | ug/l # | 7        |
| -----                         |                |      |                      |           |        |          |

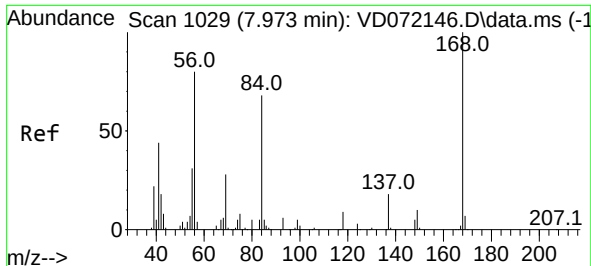
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031522\  
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Instrument :  
MSVOA\_D  
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DUM-38

Quant Time: Mar 15 17:46:31 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 14 05:18:06 2022  
Response via : Initial Calibration

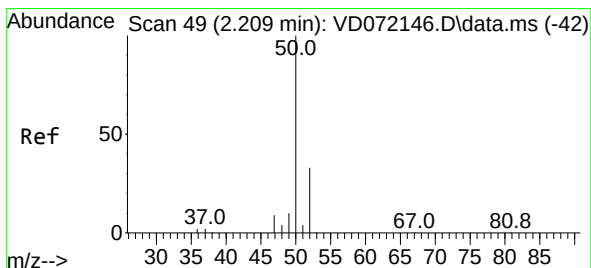
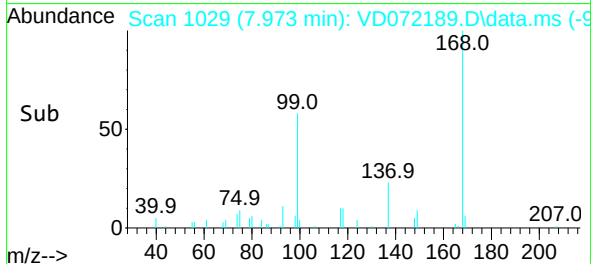
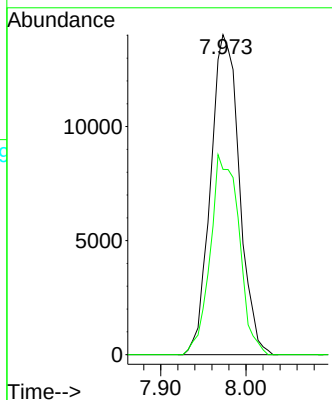
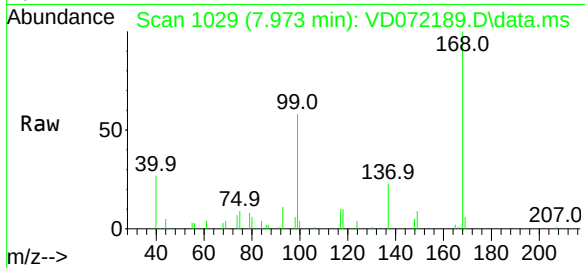




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

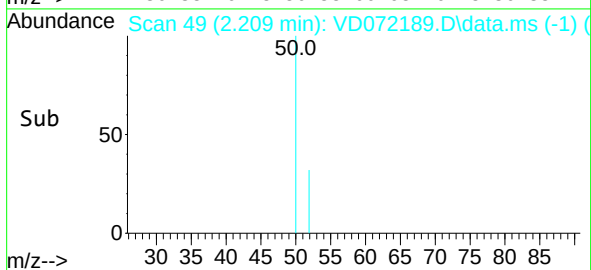
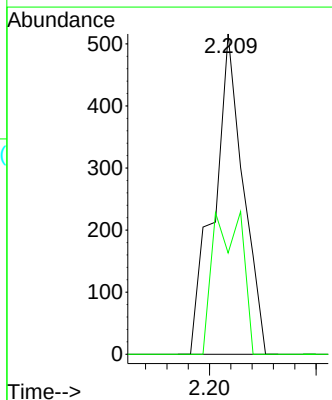
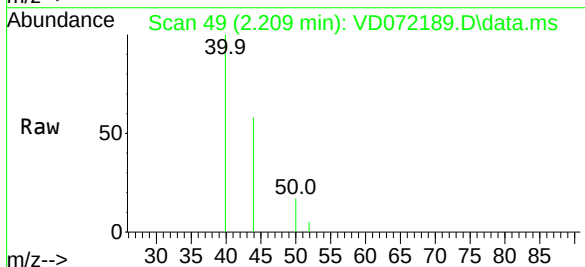
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUM-38

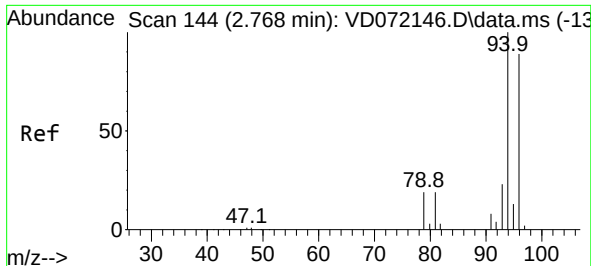
Tgt Ion:168 Resp: 32942  
Ion Ratio Lower Upper  
168 100  
99 57.9 49.8 74.6



#3  
Chloromethane  
Concen: 1.817 ug/l  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

Tgt Ion: 50 Resp: 492  
Ion Ratio Lower Upper  
50 100  
52 31.6 27.4 41.0

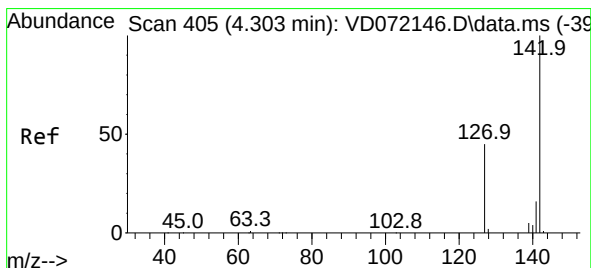
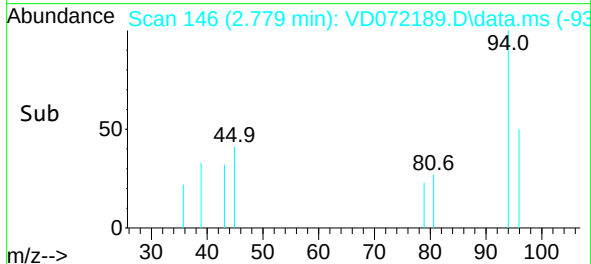
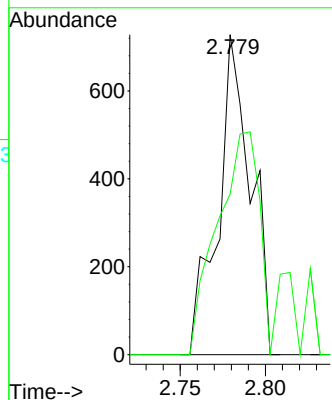
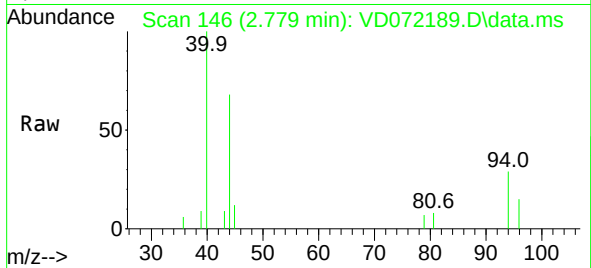




#5  
Bromomethane  
Concen: 5.717 ug/l  
RT: 2.779 min Scan# 144  
Delta R.T. 0.012 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

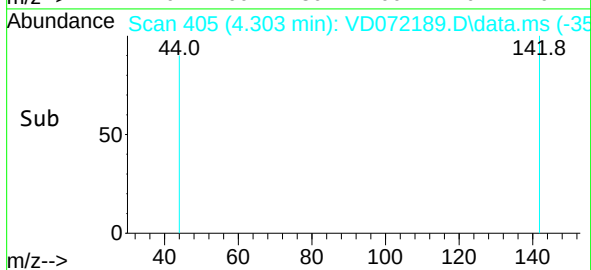
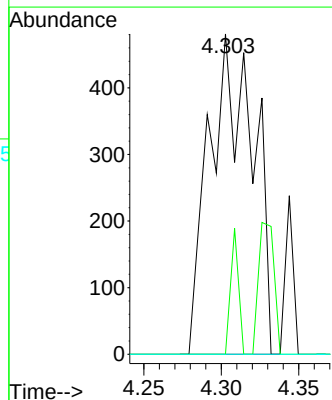
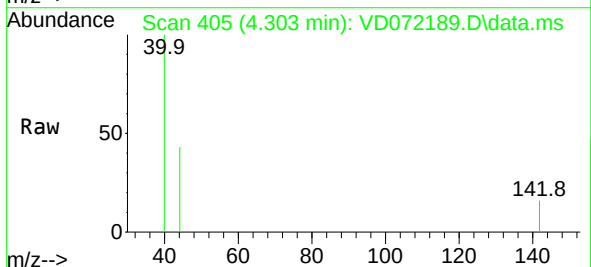
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUM-38

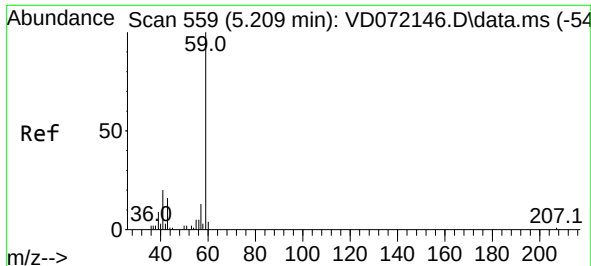
Tgt Ion: 94 Resp: 973  
Ion Ratio Lower Upper  
94 100  
96 50.1 77.6 116.4#



#10  
Methyl Iodide  
Concen: 4.905 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

Tgt Ion: 142 Resp: 945  
Ion Ratio Lower Upper  
142 100  
127 7.1 37.3 55.9#  
141 0.0 11.7 17.5#

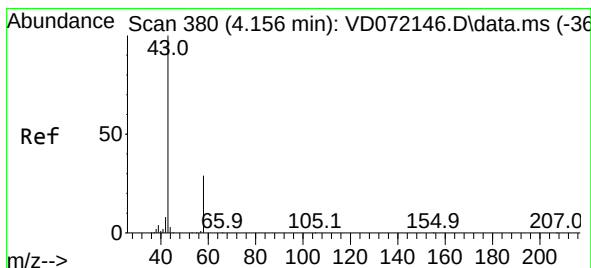
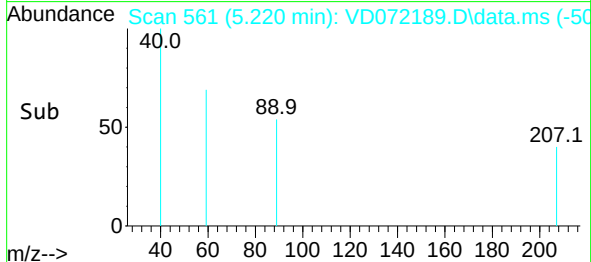
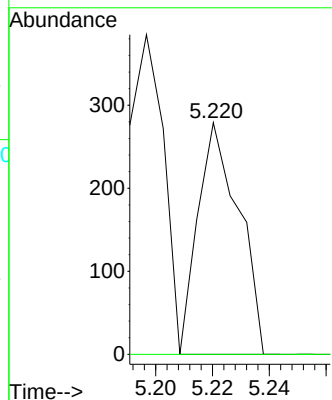
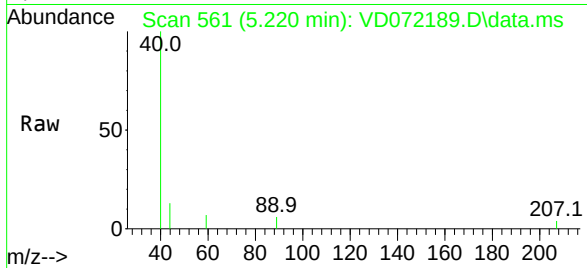




#11  
Tert butyl alcohol  
Concen: 13.107 ug/l  
RT: 5.220 min Scan# 50  
Delta R.T. 0.012 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

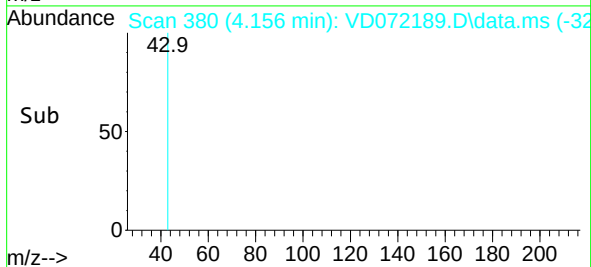
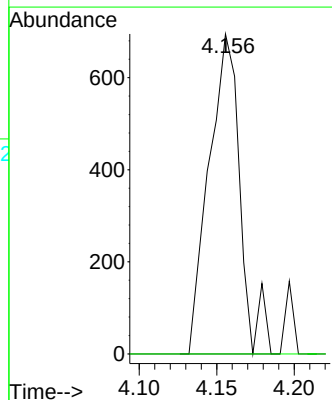
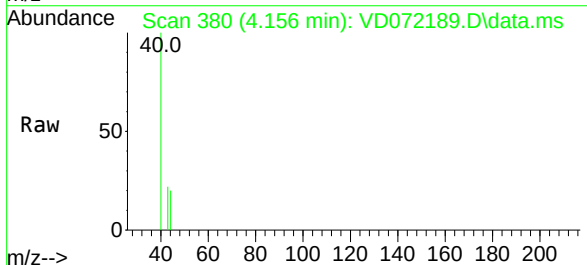
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUM-38

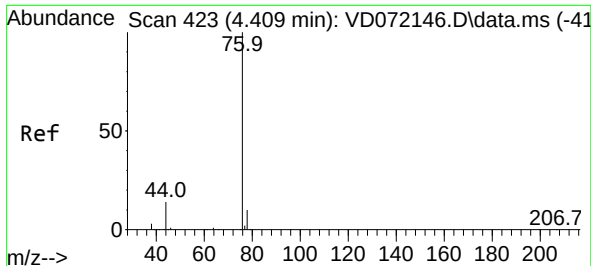
Tgt Ion: 59 Resp: 279  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 12.182 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

Tgt Ion: 43 Resp: 971  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.1 33.1#





#17

Carbon Disulfide

Concen: 1.584 ug/l

RT: 4.426 min Scan# 41

Delta R.T. 0.017 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

Instrument :

MSVOA\_D

ClientSampleId :

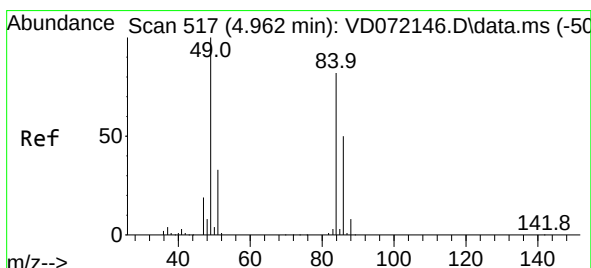
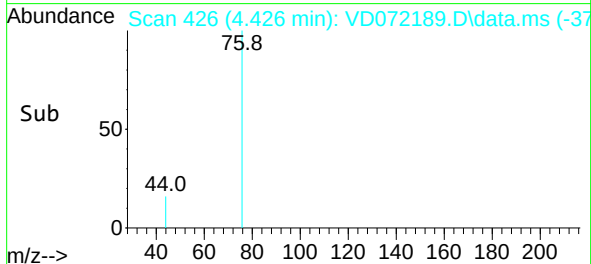
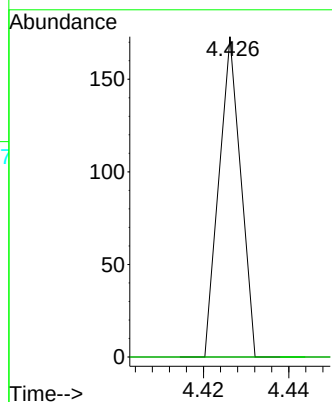
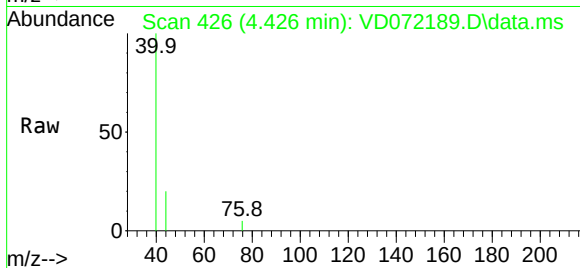
DUM-38

Tgt Ion: 76 Resp: 61

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.944 min Scan# 514

Delta R.T. -0.018 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

Tgt Ion: 84 Resp: 55

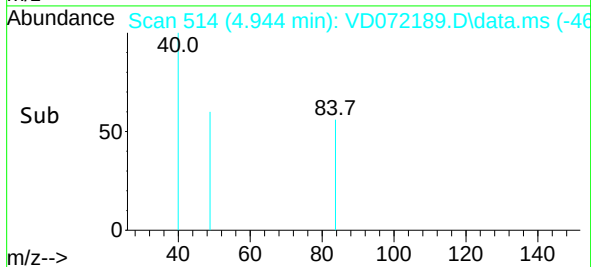
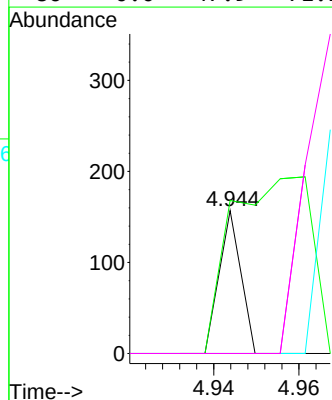
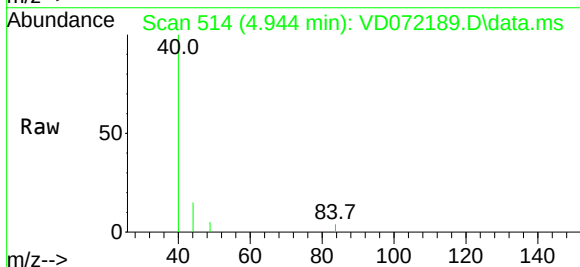
Ion Ratio Lower Upper

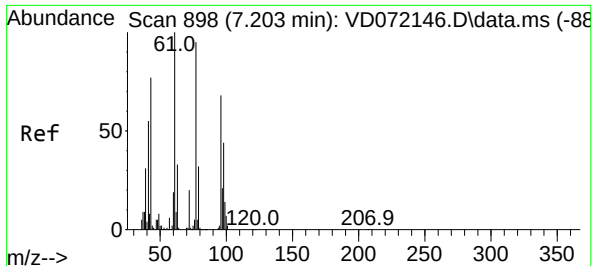
84 100

49 107.0 112.8 169.2#

51 0.0 32.6 48.8#

86 0.0 47.9 71.9#





#26

2,2-Dichloropropane

Concen: 1.443 ug/l

RT: 7.185 min Scan# 89

Delta R.T. -0.018 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

Instrument :

MSVOA\_D

ClientSampleId :

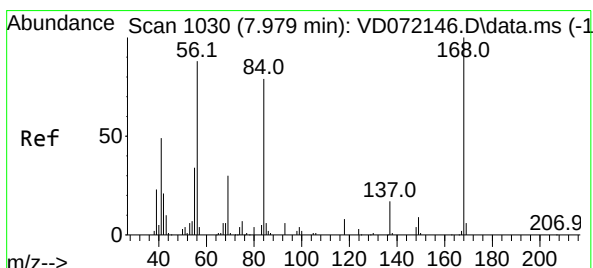
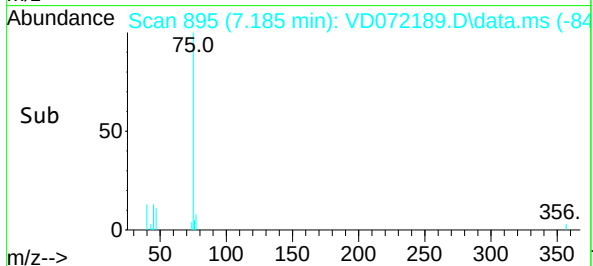
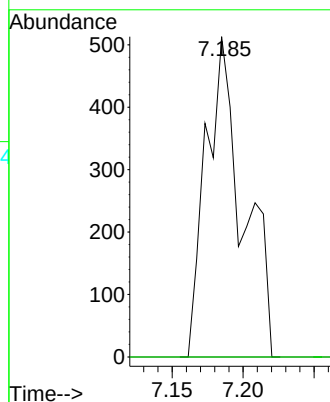
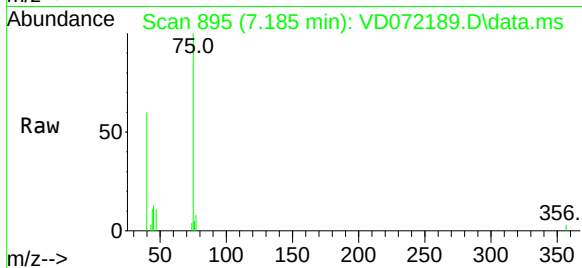
DUM-38

Tgt Ion: 77 Resp: 927

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



#31

Cyclohexane

Concen: 1.390 ug/l

RT: 7.961 min Scan# 1027

Delta R.T. -0.018 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

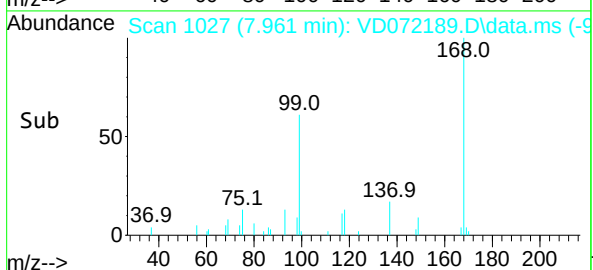
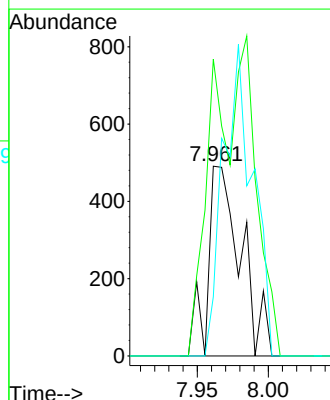
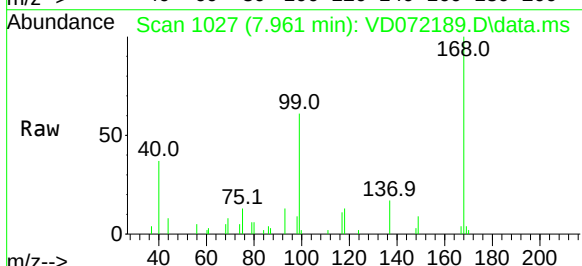
Tgt Ion: 56 Resp: 797

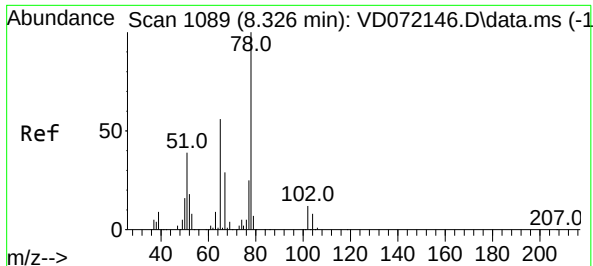
Ion Ratio Lower Upper

56 100

69 156.4 25.4 38.2#

84 31.2 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 98.063 ug/l

RT: 8.326 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

Instrument :

MSVOA\_D

ClientSampleId :

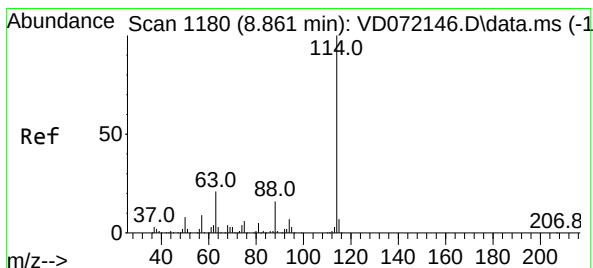
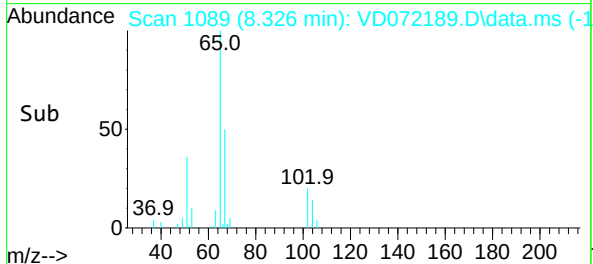
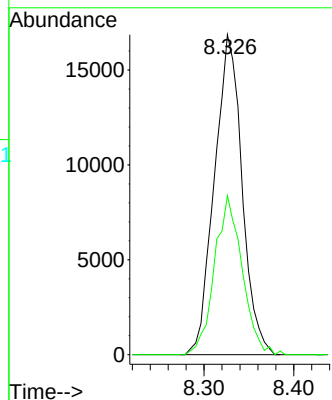
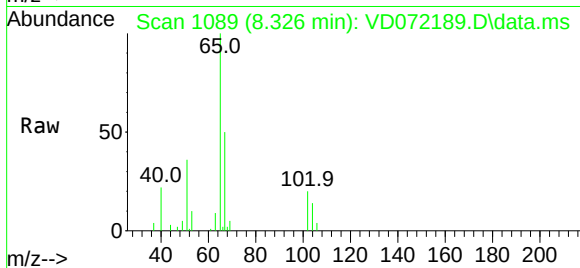
DUM-38

Tgt Ion: 65 Resp: 36001

Ion Ratio Lower Upper

65 100

67 49.7 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. -0.006 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

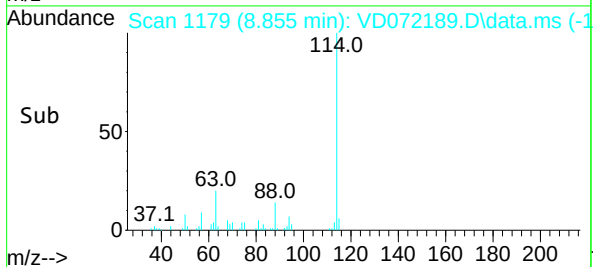
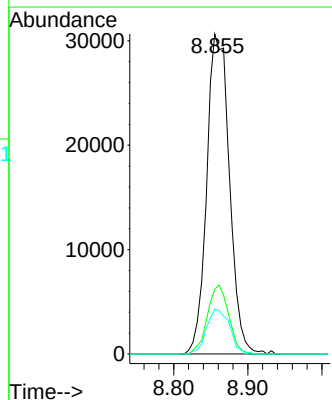
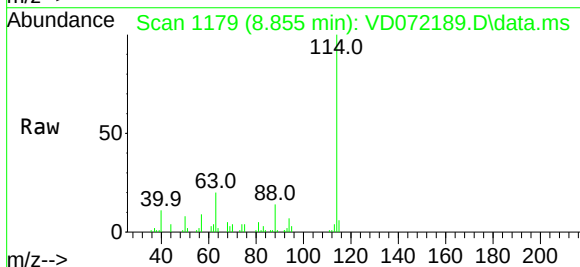
Tgt Ion: 114 Resp: 65183

Ion Ratio Lower Upper

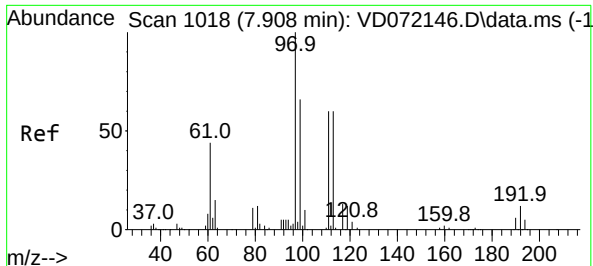
114 100

63 20.2 0.0 46.6

88 14.0 0.0 33.2







#35

Dibromofluoromethane

Concen: 62.754 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.000 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

Instrument :

MSVOA\_D

ClientSampleId :

DUM-38

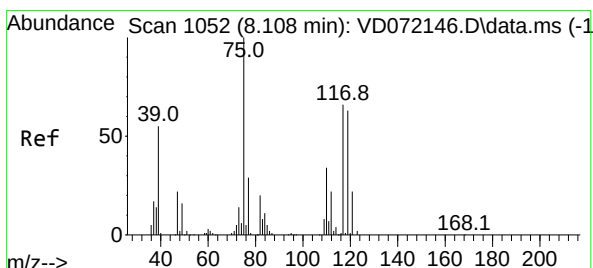
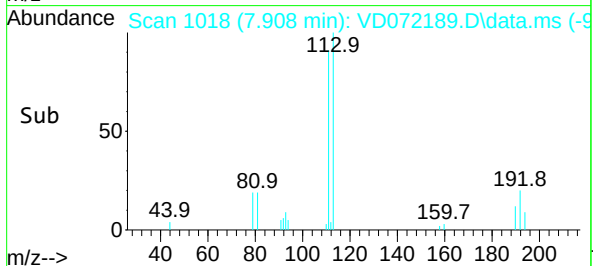
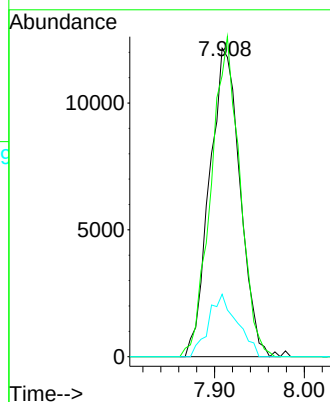
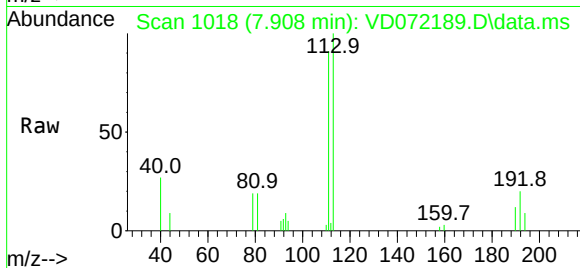
Tgt Ion:113 Resp: 28785

Ion Ratio Lower Upper

113 100

111 98.0 83.8 125.6

192 18.9 14.6 21.8



#36

1,1-Dichloropropene

Concen: 5.310 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.141 min

Lab File: VD072189.D

Acq: 15 Mar 2022 15:21

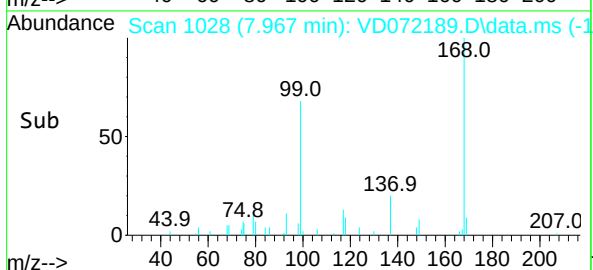
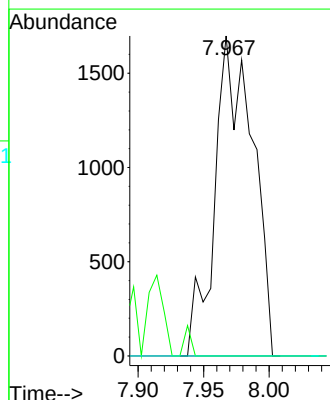
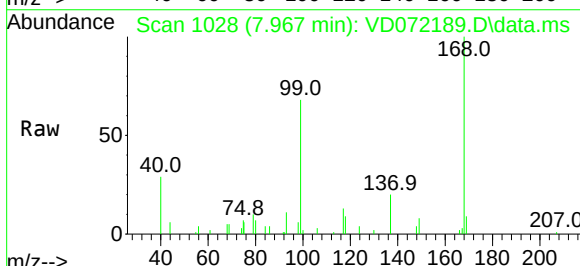
Tgt Ion: 75 Resp: 3417

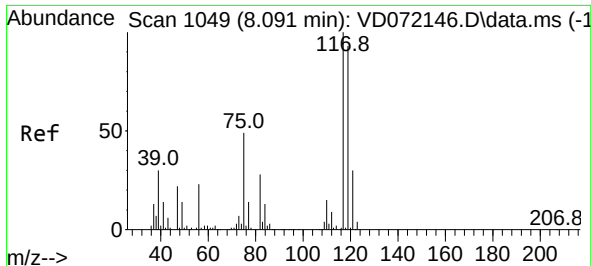
Ion Ratio Lower Upper

75 100

110 0.0 16.4 49.1#

77 0.0 24.2 36.2#

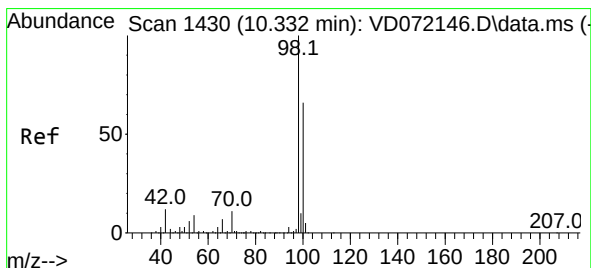
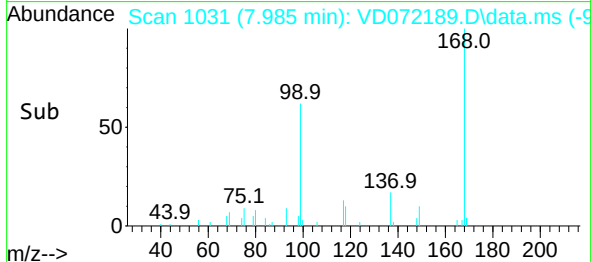
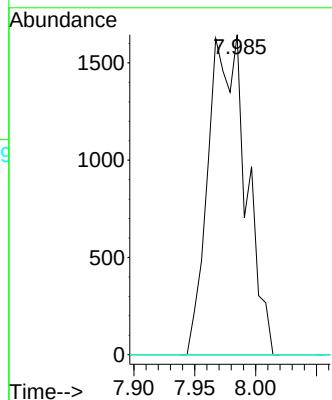
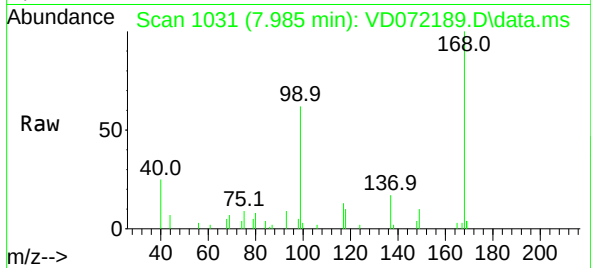




#38  
Carbon Tetrachloride  
Concen: 4.837 ug/l  
RT: 7.985 min Scan# 1049  
Delta R.T. -0.106 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

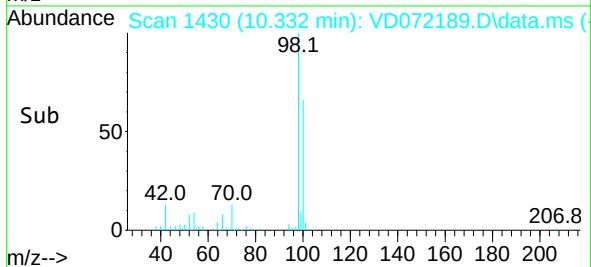
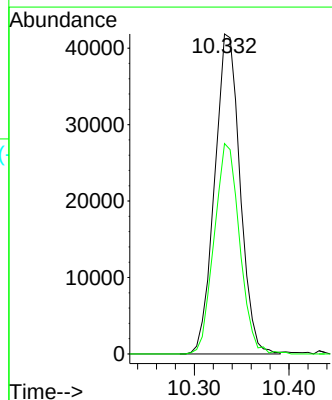
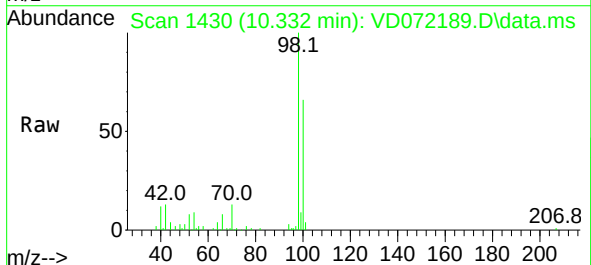
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUM-38

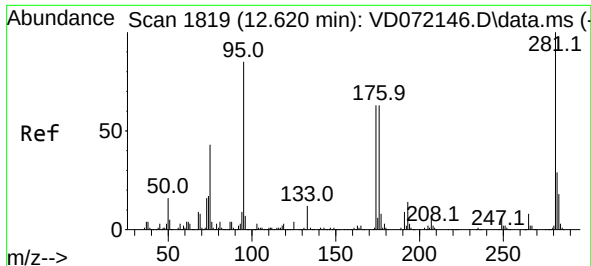
Tgt Ion:117 Resp: 3538  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 46.423 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

Tgt Ion: 98 Resp: 77862  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.4 78.6

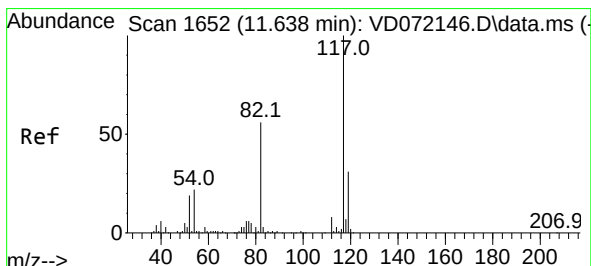
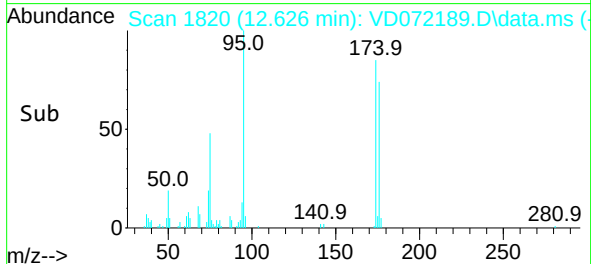
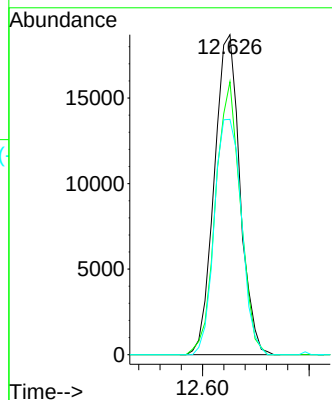
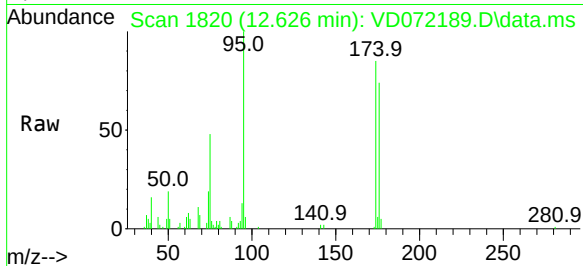




#62  
4-Bromofluorobenzene  
Concen: 48.019 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

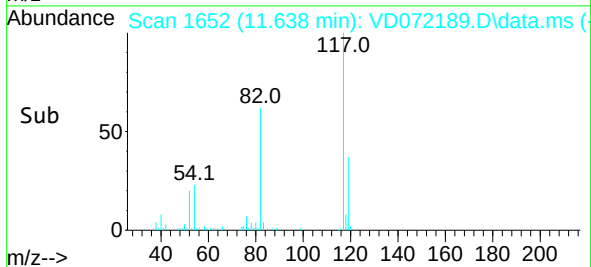
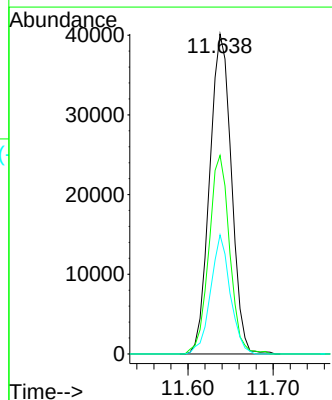
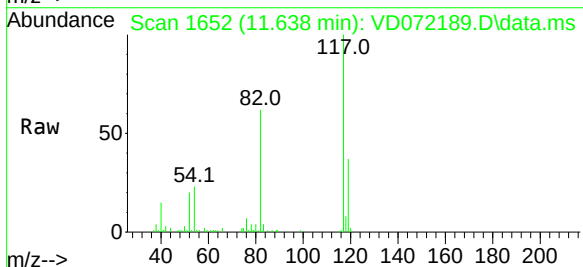
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUM-38

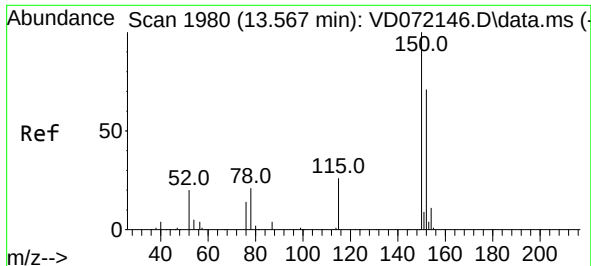
Tgt Ion: 95 Resp: 31294  
Ion Ratio Lower Upper  
95 100  
174 82.3 0.0 152.8  
176 77.9 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

Tgt Ion: 117 Resp: 71421  
Ion Ratio Lower Upper  
117 100  
82 62.0 45.3 67.9  
119 37.2 26.6 40.0

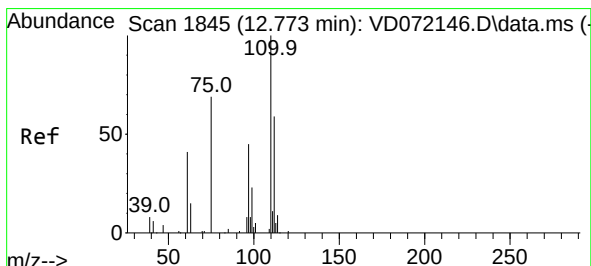
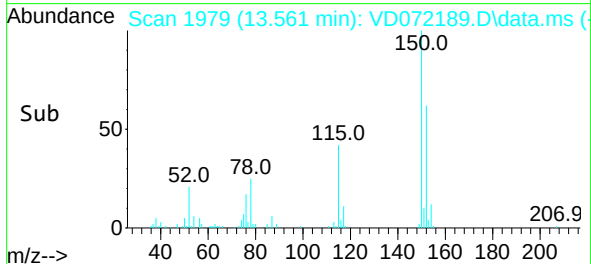
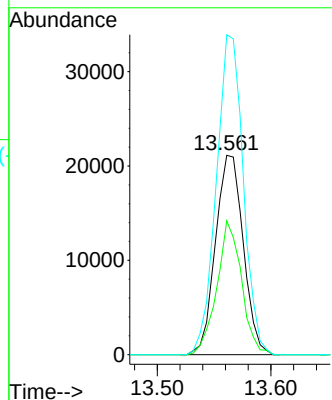
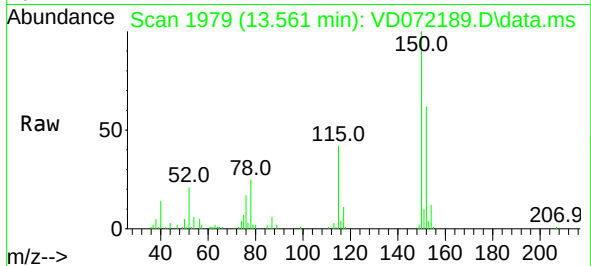




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

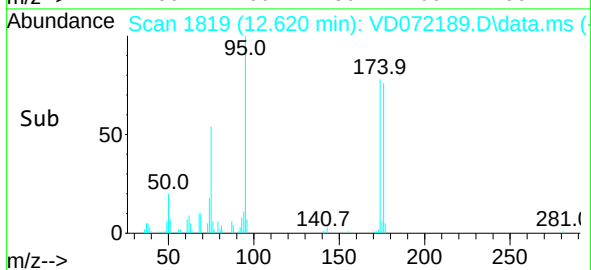
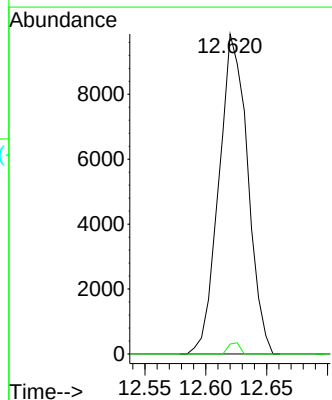
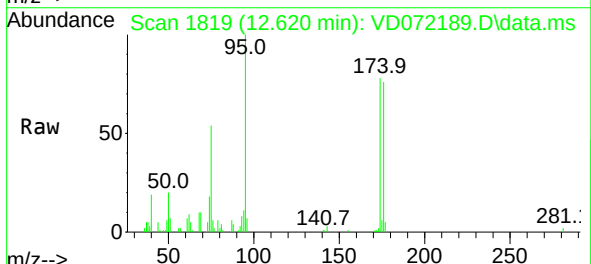
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUM-38

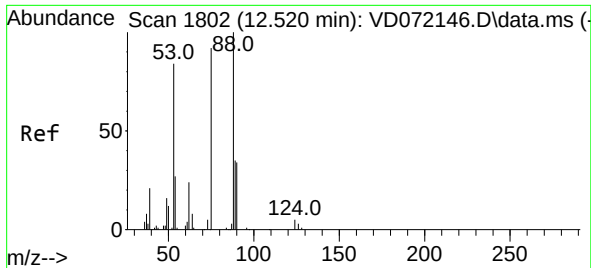
Tgt Ion:152 Resp: 35893  
Ion Ratio Lower Upper  
152 100  
115 59.6 31.3 93.8  
150 155.9 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 40.873 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD072189.D  
Acq: 15 Mar 2022 15:21

Tgt Ion: 75 Resp: 16183  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 101.411 ug/l  
 RT: 12.620 min Scan# 11  
 Delta R.T. 0.100 min  
 Lab File: VD072189.D  
 Acq: 15 Mar 2022 15:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DUM-38

Tgt Ion: 75 Resp: 16183  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 86.5 129.7#  
 89 0.0 33.9 50.9#

