

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070721\  
 Data File : VD069615.D  
 Acq On : 07 Jul 2021 18:27  
 Operator : VA/SY  
 Sample : M2946-01  
 Misc : 4.74G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

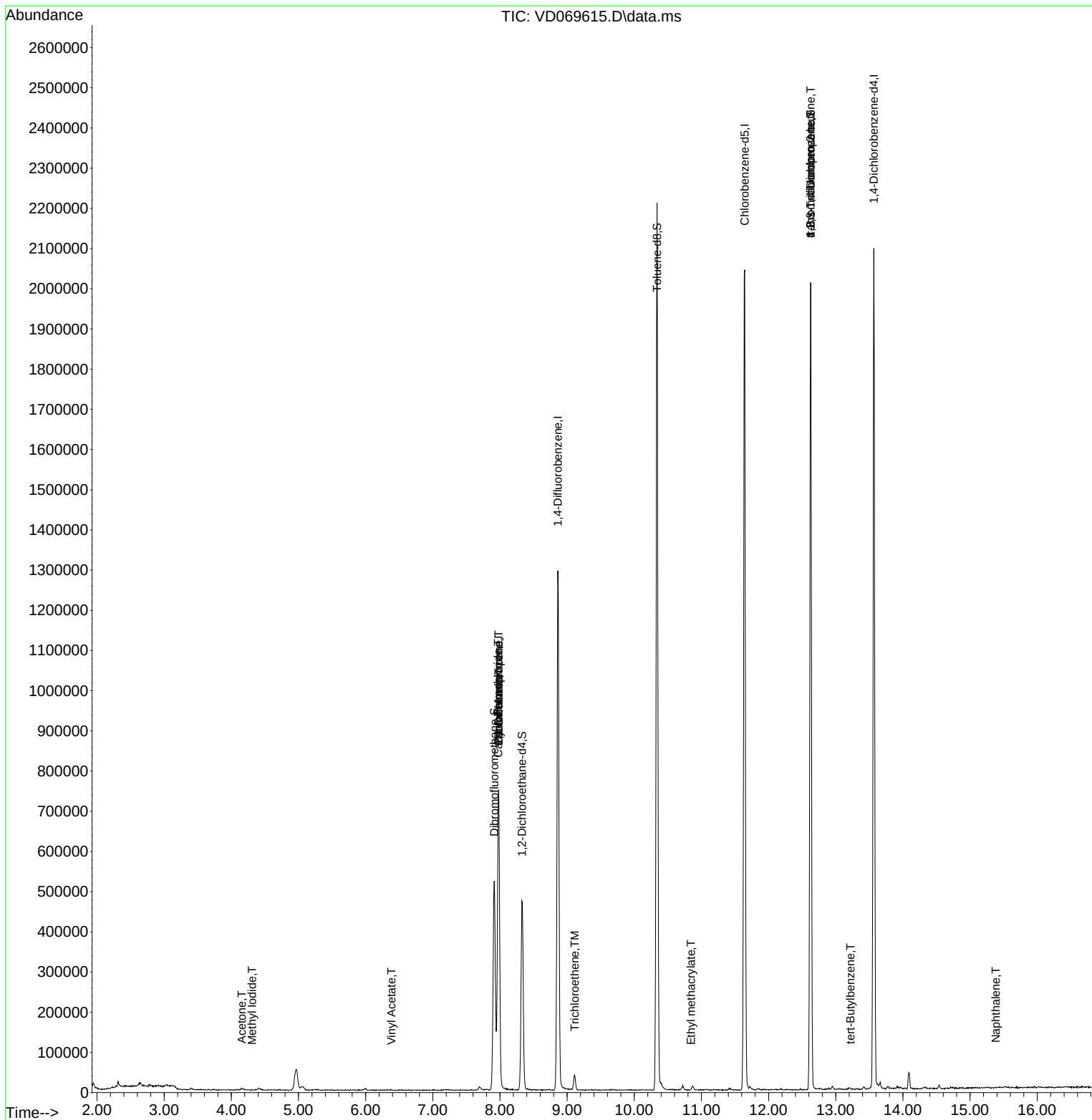
Instrument :  
 MSVOA\_D  
 ClientSampleId :

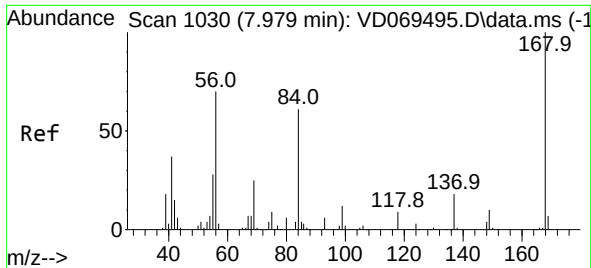
Quant Time: Jul 08 01:08:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 527160              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 1076466             | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.644         | 117  | 1186010             | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 535803              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 382465              | 58.205    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 116.420% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 380706              | 52.318    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 104.640% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 1449581             | 53.109    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 106.220% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 570246              | 63.550    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 127.100% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.774          | 94   | 611                 | Below Cal | #      | 77       |
| 10) Methyl Iodide             | 4.309          | 142  | 154                 | 3.966     | ug/l # | 39       |
| 11) Tert butyl alcohol        | 5.238          | 59   | 1063                | Below Cal | #      | 83       |
| 16) Acetone                   | 4.156          | 43   | 5722                | 5.174     | ug/l # | 83       |
| 18) Methyl Acetate            | 4.715          | 43   | 249                 | Below Cal | #      | 49       |
| 20) Methylene Chloride        | 4.962          | 84   | 42927               | Below Cal |        | 93       |
| 23) Vinyl Acetate             | 6.385          | 43   | 58                  | 19.016    | ug/l # | 70       |
| 31) Cyclohexane               | 7.979          | 56   | 14114               | 1.595     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 50870               | 4.815     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 58836               | 5.627     | ug/l # | 17       |
| 44) Trichloroethene           | 9.114          | 130  | 12342               | 1.606     | ug/l   | 90       |
| 56) Ethyl methacrylate        | 10.844         | 69   | 202                 | 2.609     | ug/l # | 27       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 282846              | 53.777    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 282846              | 134.274   | ug/l # | 12       |
| 83) tert-Butylbenzene         | 13.220         | 119  | 157                 | 1.998     | ug/l # | 72       |
| 95) Naphthalene               | 15.385         | 128  | 325                 | 3.373     | ug/l # | 43       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Jul 08 01:08:51 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 22 04:33:24 2021  
Response via : Initial Calibration

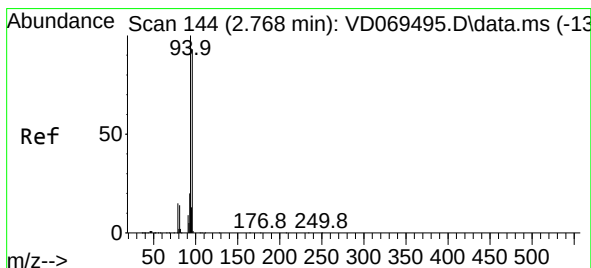
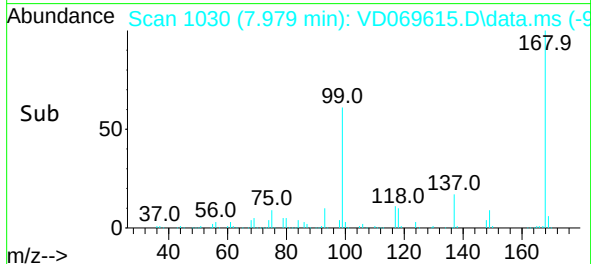
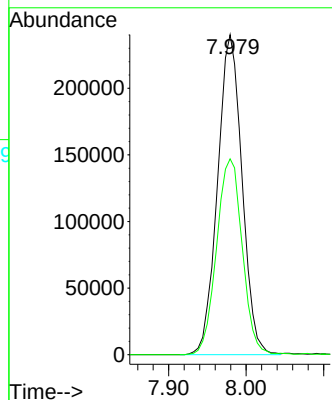
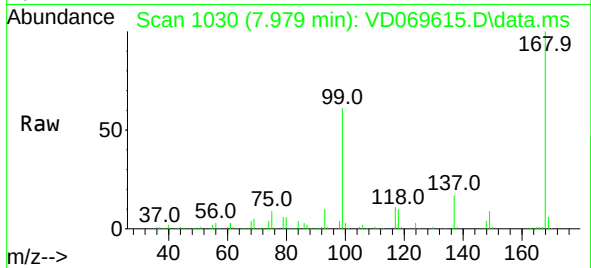




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

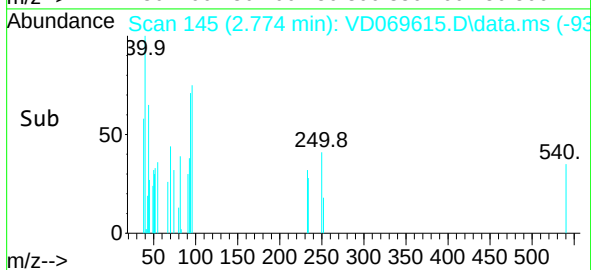
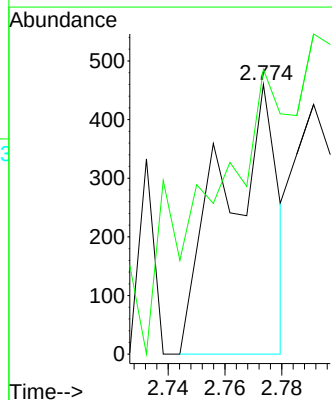
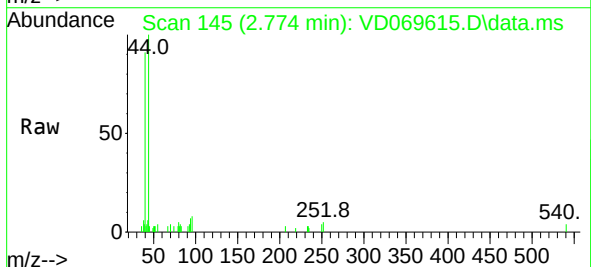
Instrument :  
MSVOA\_D  
ClientSampleId :

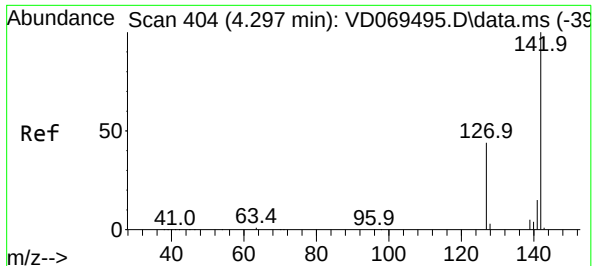
Tgt Ion:168 Resp: 527160  
Ion Ratio Lower Upper  
168 100  
99 61.2 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.774 min Scan# 145  
Delta R.T. 0.006 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Tgt Ion: 94 Resp: 611  
Ion Ratio Lower Upper  
94 100  
96 70.9 74.6 111.8#

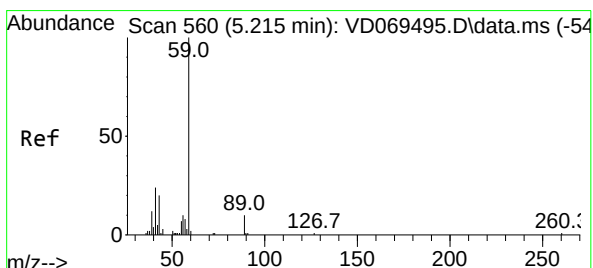
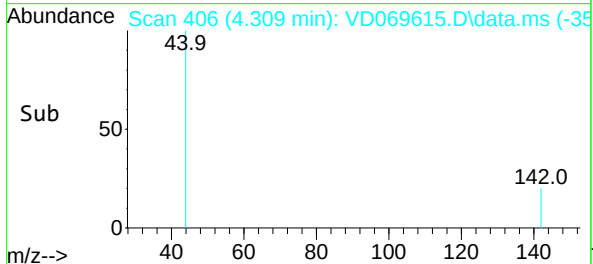
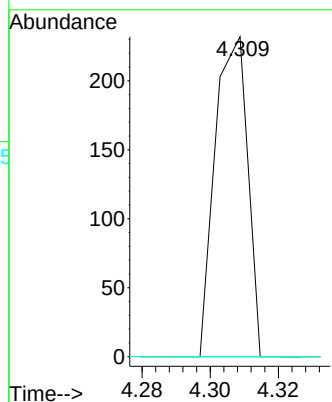
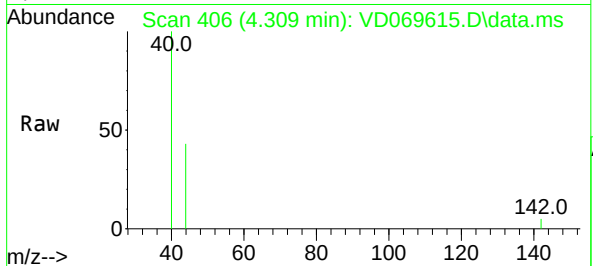




#10  
Methyl Iodide  
Concen: 3.966 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

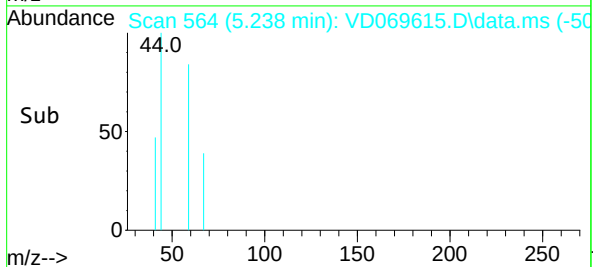
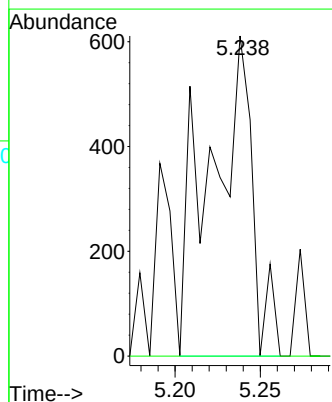
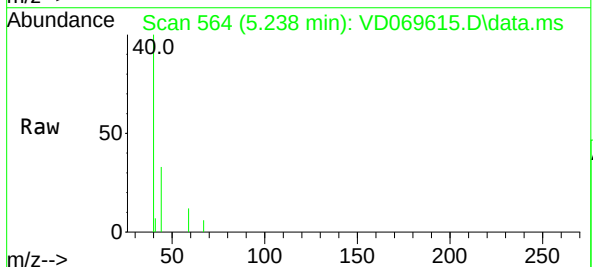
Instrument :  
MSVOA\_D  
ClientSampleId :

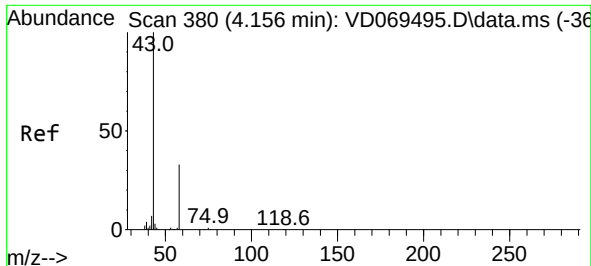
Tgt Ion:142 Resp: 154  
Ion Ratio Lower Upper  
142 100  
127 0.0 36.5 54.7#  
141 0.0 12.0 18.0#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.238 min Scan# 564  
Delta R.T. 0.023 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Tgt Ion: 59 Resp: 1063  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.6 7.0#

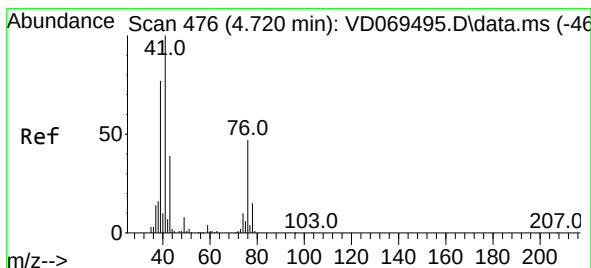
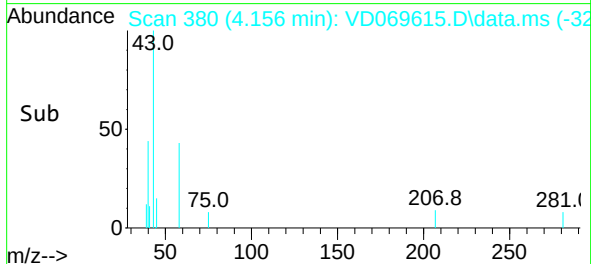
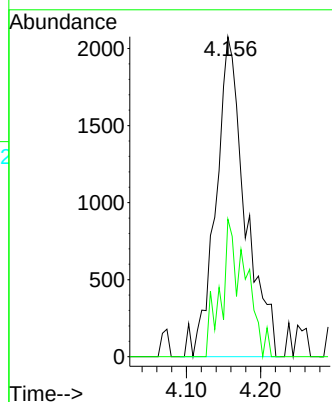
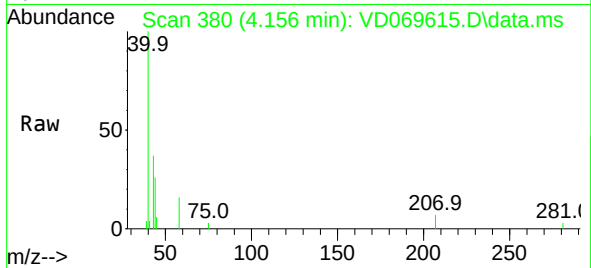




#16  
Acetone  
Concen: 5.174 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

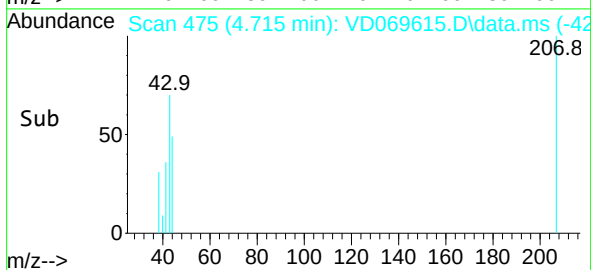
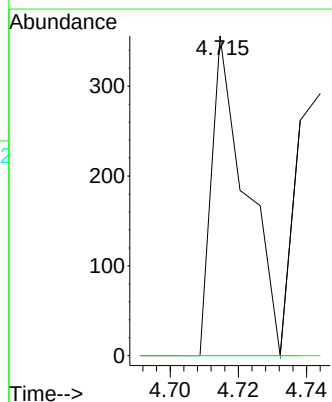
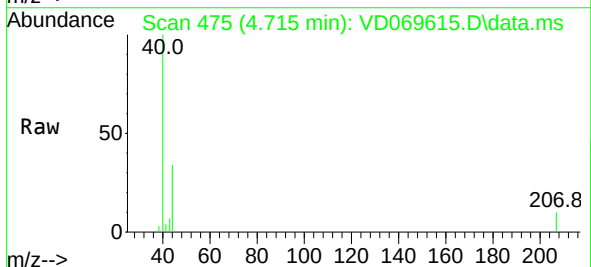
Instrument :  
MSVOA\_D  
ClientSampleId :

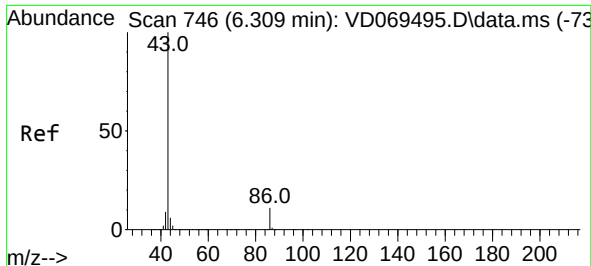
Tgt Ion: 43 Resp: 5722  
Ion Ratio Lower Upper  
43 100  
58 42.9 26.8 40.2#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.715 min Scan# 475  
Delta R.T. -0.005 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Tgt Ion: 43 Resp: 249  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#

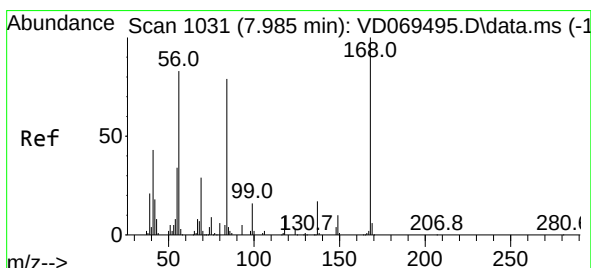
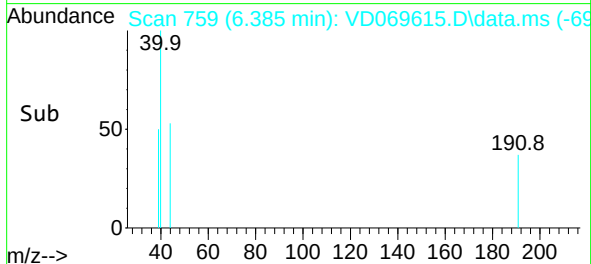
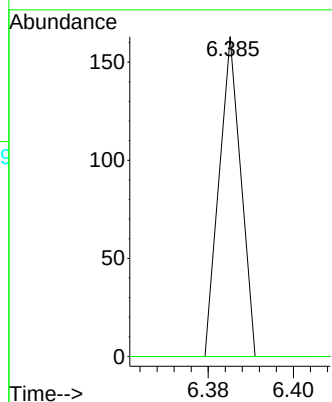
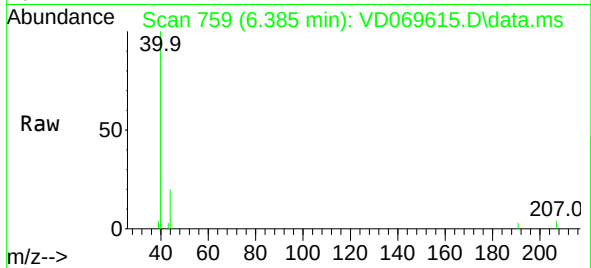




#23  
 Vinyl Acetate  
 Concen: 19.016 ug/l  
 RT: 6.385 min Scan# 759  
 Delta R.T. 0.076 min  
 Lab File: VD069615.D  
 Acq: 07 Jul 2021 18:27

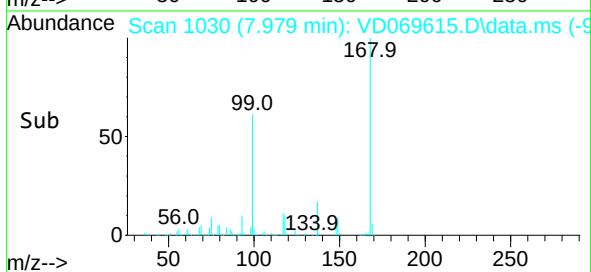
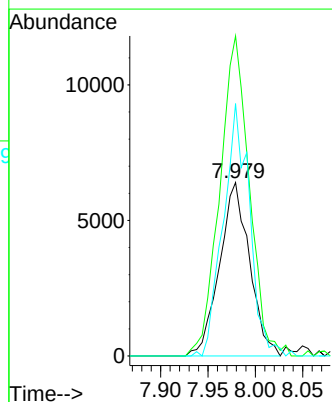
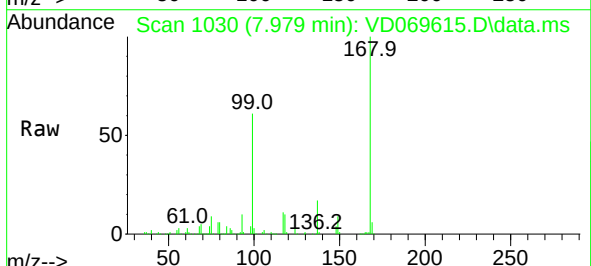
Instrument :  
 MSVOA\_D  
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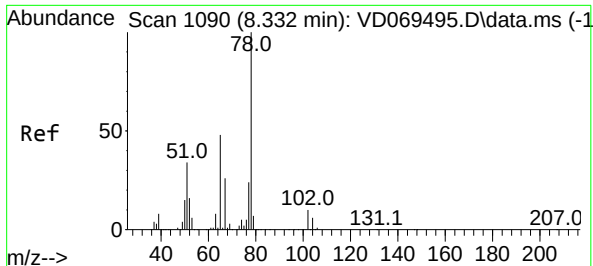
Tgt Ion: 43 Resp: 58  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 9.1 13.7#



#31  
 Cyclohexane  
 Concen: 1.595 ug/l  
 RT: 7.979 min Scan# 1030  
 Delta R.T. -0.006 min  
 Lab File: VD069615.D  
 Acq: 07 Jul 2021 18:27

Tgt Ion: 56 Resp: 14114  
 Ion Ratio Lower Upper  
 56 100  
 69 184.6 28.0 42.0#  
 84 145.6 75.7 113.5#



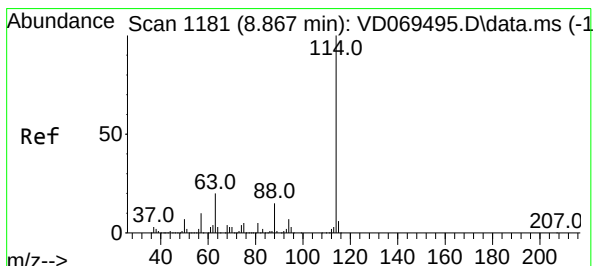
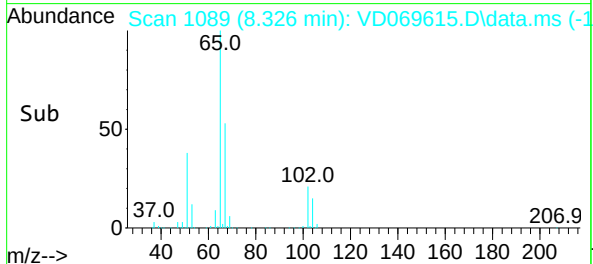
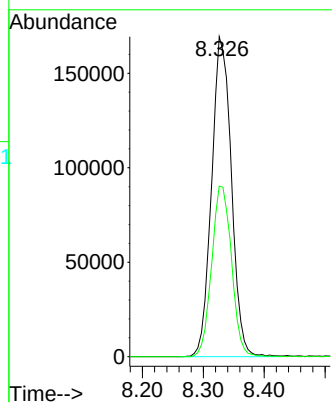
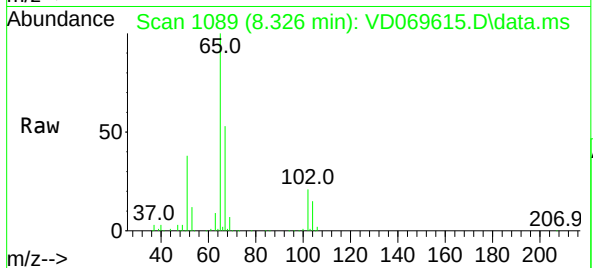


#33

1,2-Dichloroethane-d4  
Concen: 58.205 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Instrument :  
MSVOA\_D  
ClientSampleId :

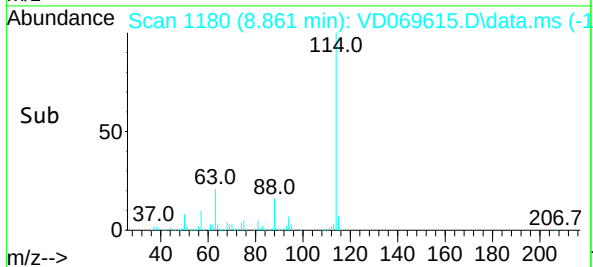
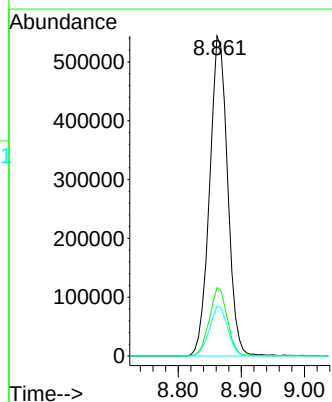
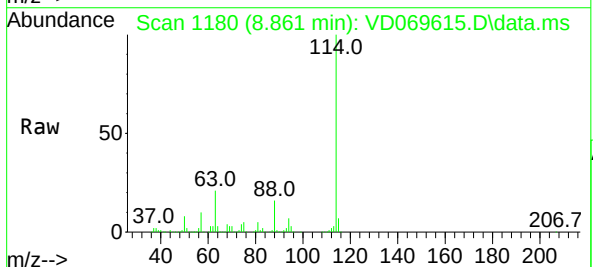
Tgt Ion: 65 Resp: 382465  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 105.6

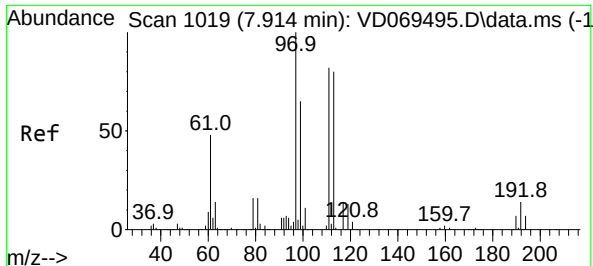


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.006 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Tgt Ion: 114 Resp: 1076466  
Ion Ratio Lower Upper  
114 100  
63 21.3 0.0 39.6  
88 15.5 0.0 29.8





#35

Dibromofluoromethane

Concen: 52.318 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD069615.D

Acq: 07 Jul 2021 18:27

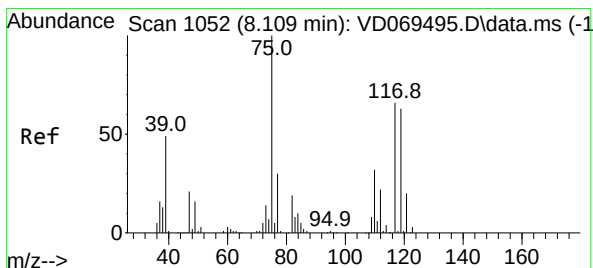
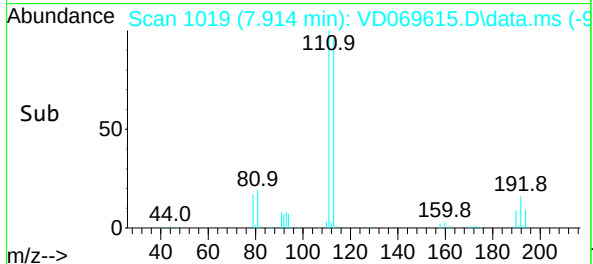
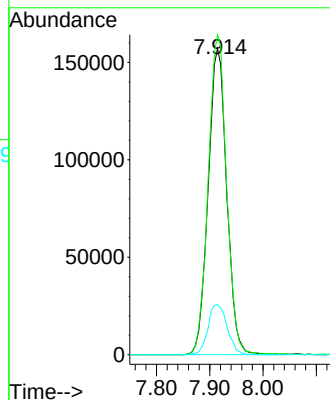
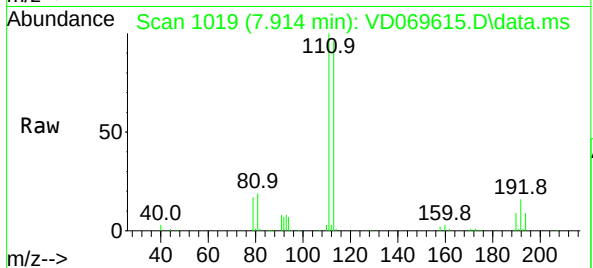
Tgt Ion:113 Resp: 380706

Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.8

192 16.9 13.8 20.6



#36

1,1-Dichloropropene

Concen: 4.815 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.129 min

Lab File: VD069615.D

Acq: 07 Jul 2021 18:27

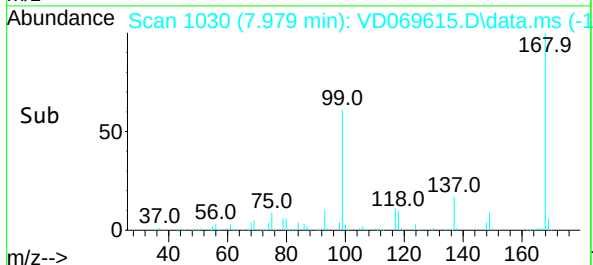
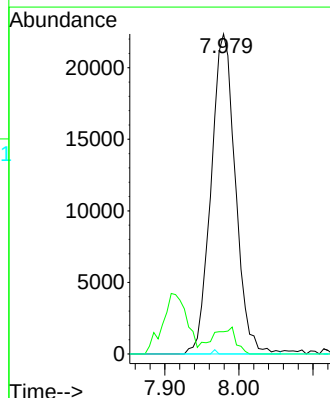
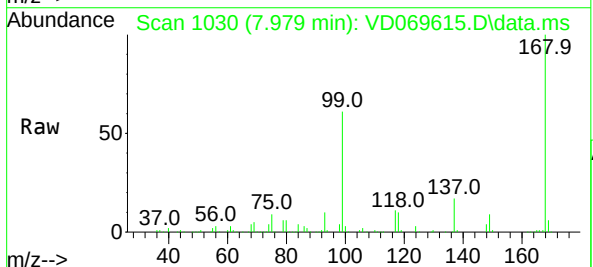
Tgt Ion: 75 Resp: 50870

Ion Ratio Lower Upper

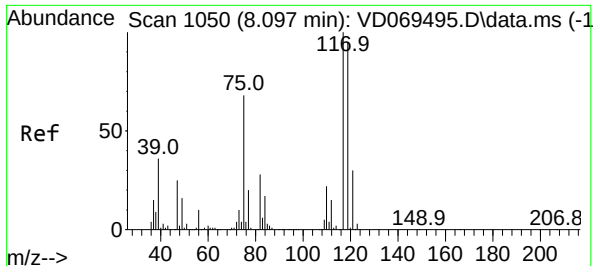
75 100

110 7.1 16.8 50.4#

77 0.0 24.3 36.5#

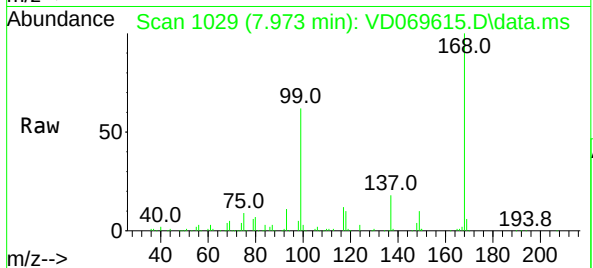




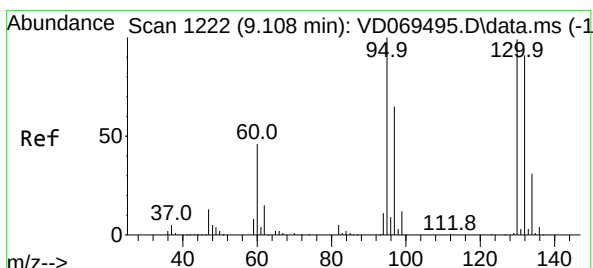
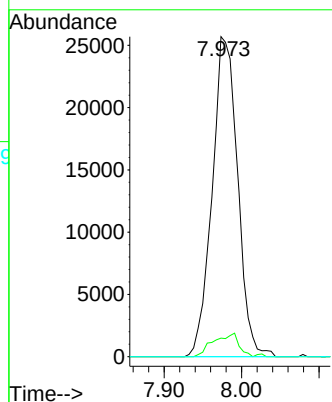
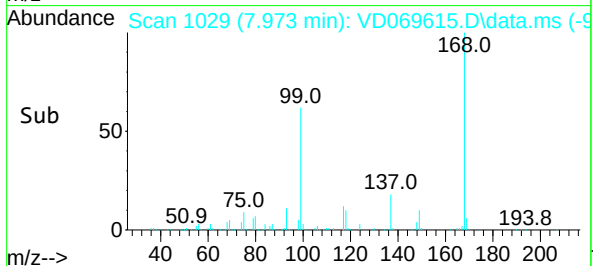


#38  
Carbon Tetrachloride  
Concen: 5.627 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.124 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

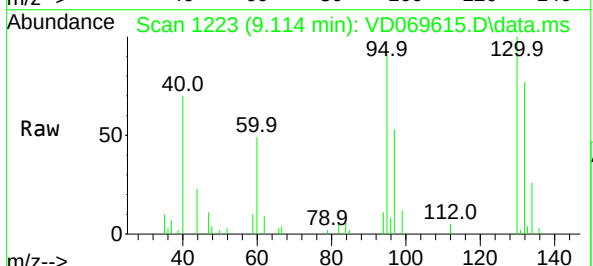
Instrument :  
MSVOA\_D  
ClientSampleId :



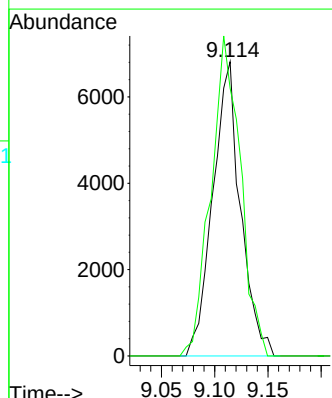
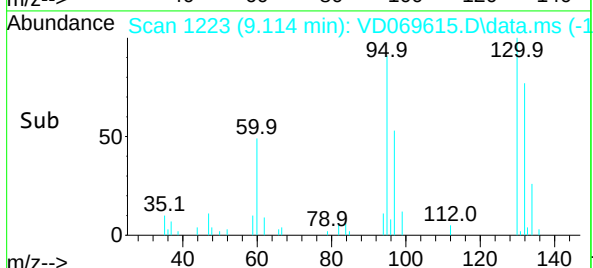
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Ion Ratio Lower Upper  
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121 0.0 23.8 35.8#

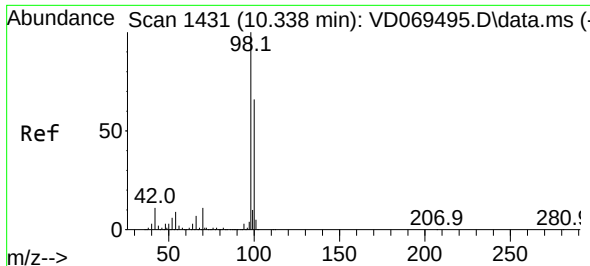


#44  
Trichloroethene  
Concen: 1.606 ug/l  
RT: 9.114 min Scan# 1223  
Delta R.T. 0.006 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27



Tgt Ion:130 Resp: 12342  
Ion Ratio Lower Upper  
130 100  
95 90.9 0.0 202.2

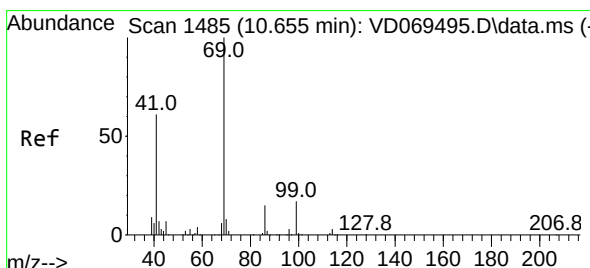
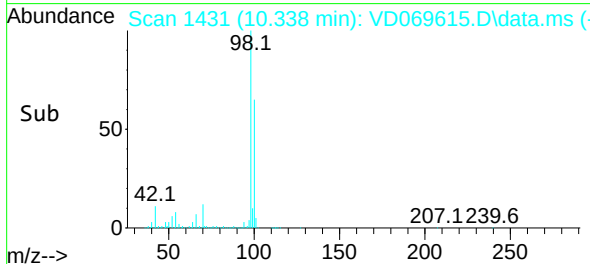
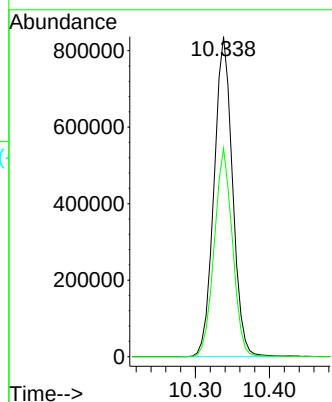
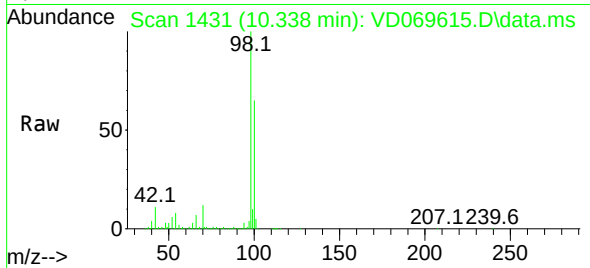




#50  
Toluene-d8  
Concen: 53.109 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.000 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

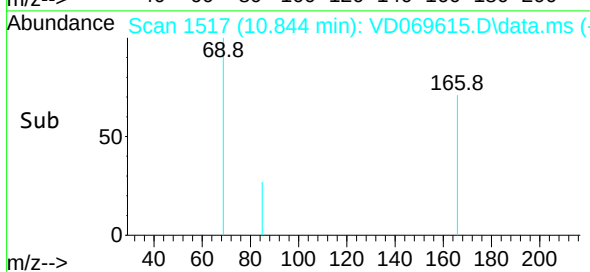
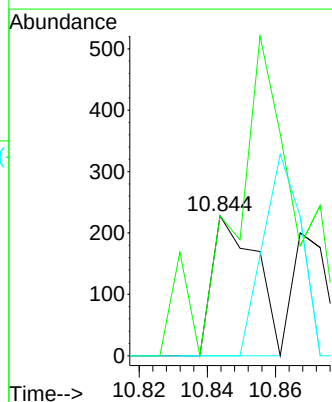
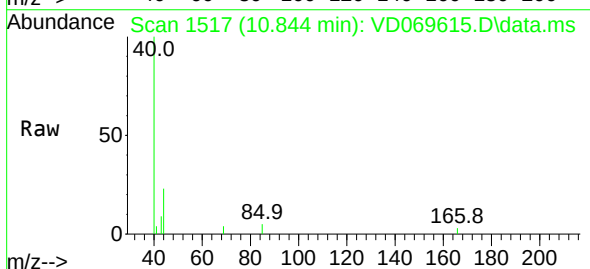
Instrument :  
MSVOA\_D  
ClientSampleId :

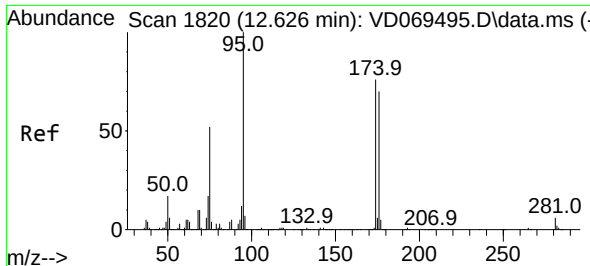
Tgt Ion: 98 Resp: 1449581  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.3 78.5



#56  
Ethyl methacrylate  
Concen: 2.609 ug/l  
RT: 10.844 min Scan# 1517  
Delta R.T. 0.189 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Tgt Ion: 69 Resp: 202  
Ion Ratio Lower Upper  
69 100  
41 0.0 49.4 74.0#  
39 0.0 26.9 40.3#

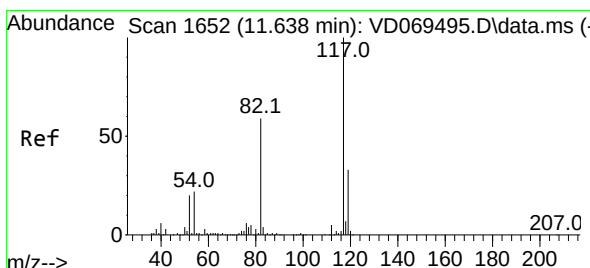
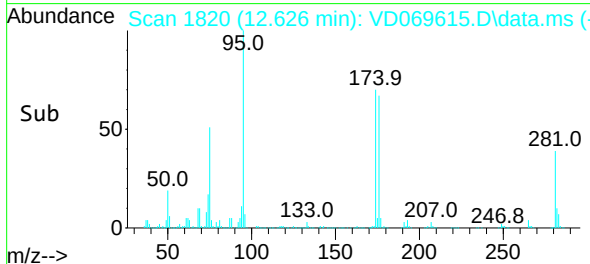
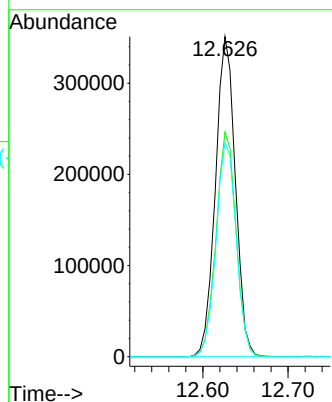
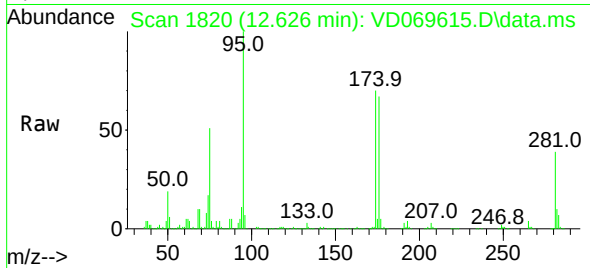




#62  
4-Bromofluorobenzene  
Concen: 63.550 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

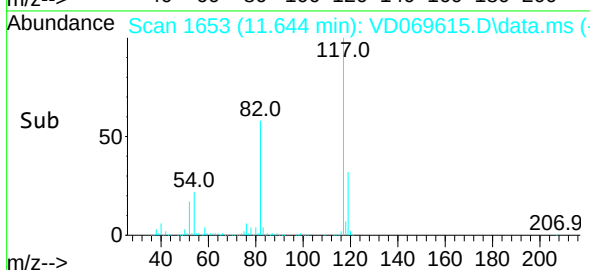
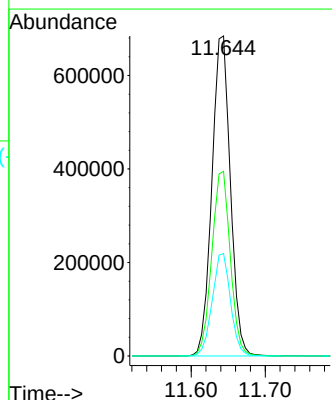
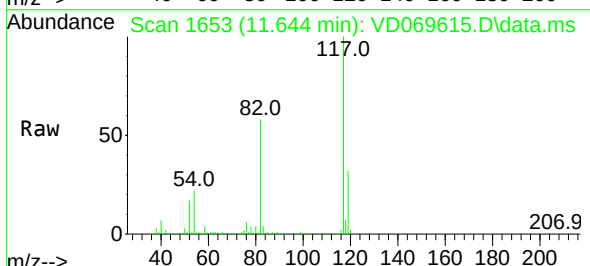
Instrument :  
MSVOA\_D  
ClientSampleId :

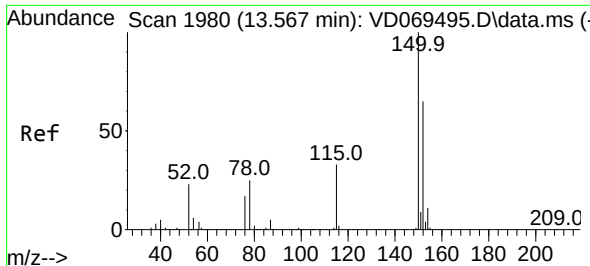
Tgt Ion: 95 Resp: 570246  
Ion Ratio Lower Upper  
95 100  
174 70.8 0.0 148.0  
176 68.1 0.0 139.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. 0.006 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Tgt Ion: 117 Resp: 1186010  
Ion Ratio Lower Upper  
117 100  
82 57.7 46.8 70.2  
119 32.0 26.2 39.2

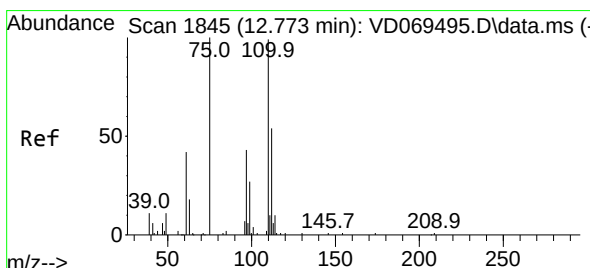
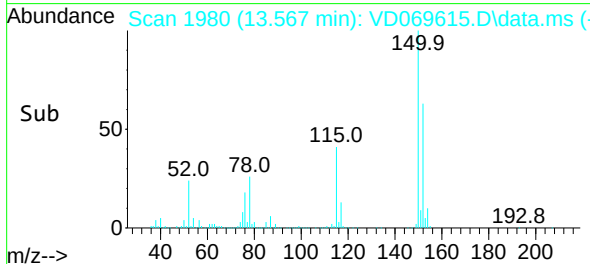
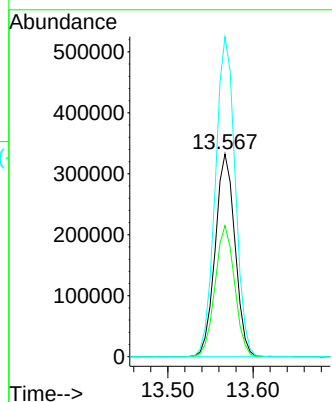
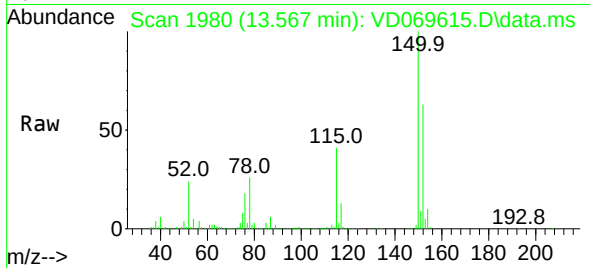




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

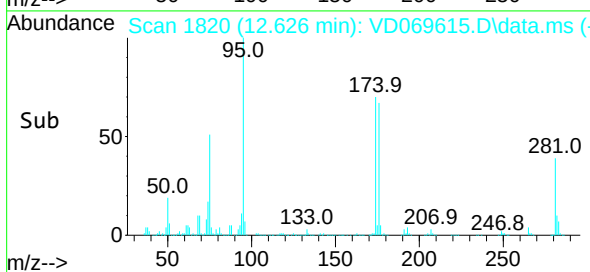
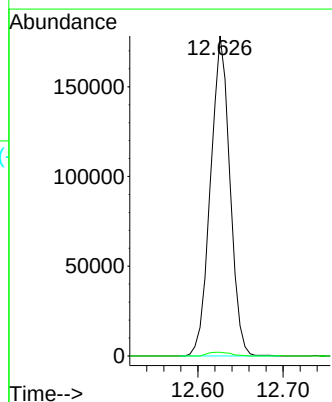
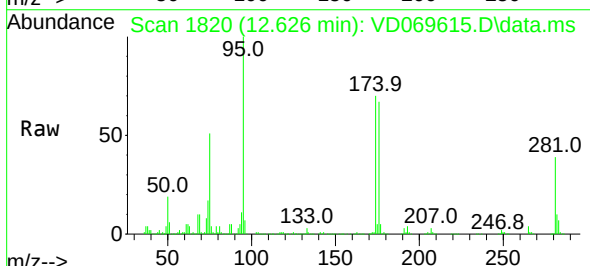
Instrument :  
MSVOA\_D  
ClientSampleId :

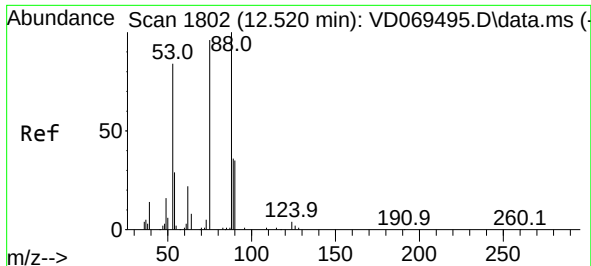
Tgt Ion:152 Resp: 535803  
Ion Ratio Lower Upper  
152 100  
115 63.9 31.7 95.1  
150 158.4 0.0 350.8



#76  
1,2,3-Trichloropropane  
Concen: 53.777 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

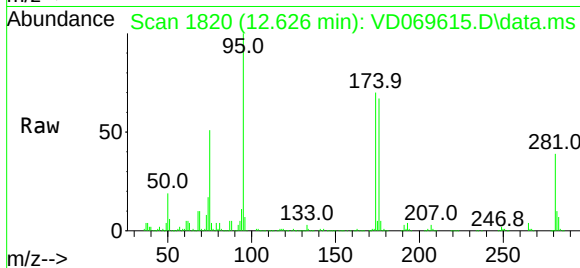
Tgt Ion: 75 Resp: 282846  
Ion Ratio Lower Upper  
75 100  
77 1.4 162.6 487.8#



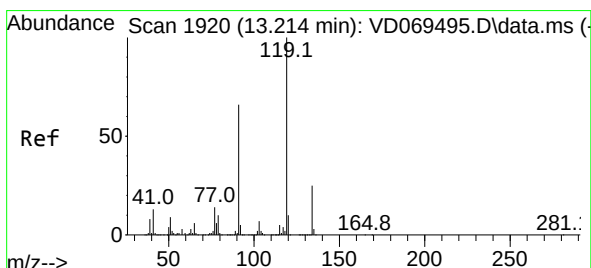
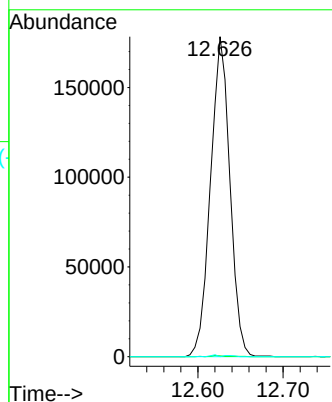
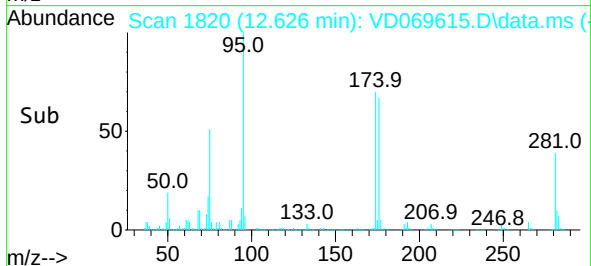


#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 134.274 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD069615.D  
 Acq: 07 Jul 2021 18:27

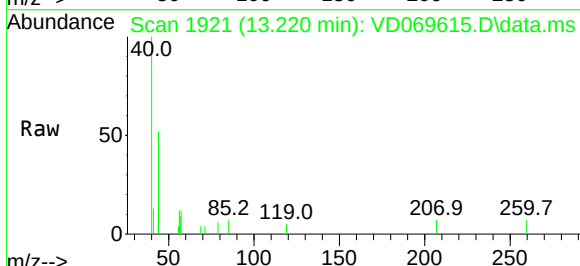
Instrument :  
 MSVOA\_D  
 ClientSampleId :



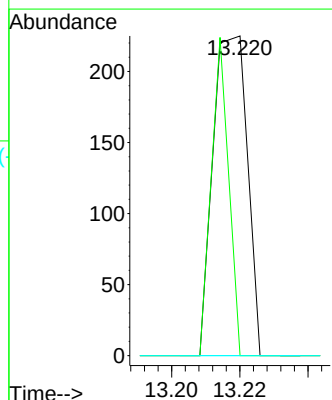
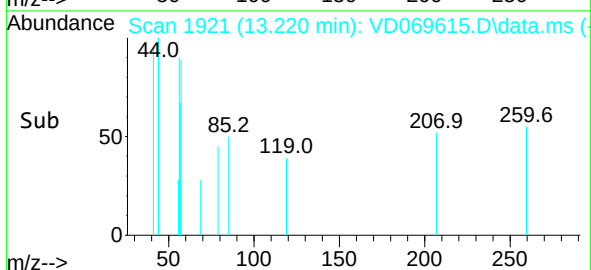
Tgt Ion: 75 Resp: 282846  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.6 112.0#  
 89 0.2 35.3 52.9#

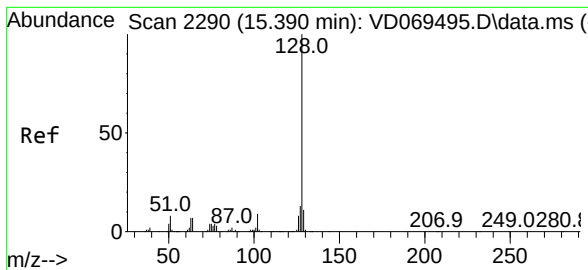


#83  
 tert-Butylbenzene  
 Concen: 1.998 ug/l  
 RT: 13.220 min Scan# 1921  
 Delta R.T. 0.006 min  
 Lab File: VD069615.D  
 Acq: 07 Jul 2021 18:27



Tgt Ion: 119 Resp: 157  
 Ion Ratio Lower Upper  
 119 100  
 91 50.3 32.5 97.4  
 134 0.0 12.9 38.7#





#95  
Naphthalene  
Concen: 3.373 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. -0.005 min  
Lab File: VD069615.D  
Acq: 07 Jul 2021 18:27

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 325  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 43.1 8.7 13.1#

