

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062521\  
 Data File : VD069570.D  
 Acq On : 25 Jun 2021 17:15  
 Operator : VA/SY  
 Sample : M2856-19  
 Misc : 5.07G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-10-9.5-10.0

Quant Time: Jun 26 03:40:27 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

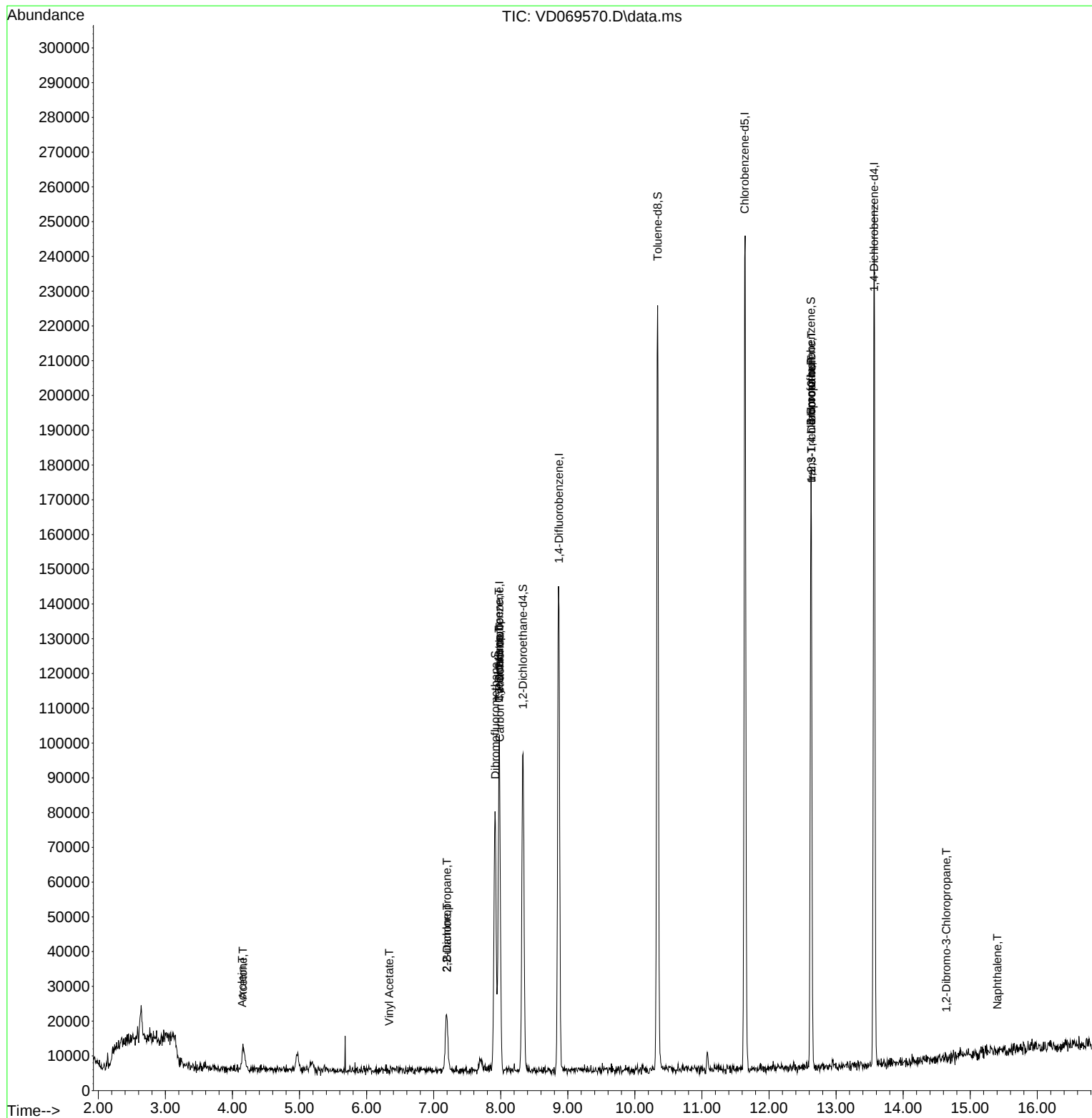
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 62209                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 120989               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 138348               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 63301                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 74925                | 96.624    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 193.240%# |           |        |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 55389                | 67.724    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 135.440%  |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 153883               | 50.162    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 100.320%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 57140                | 56.656    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 113.320%  |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        |          |
| 5) Bromomethane               | 2.779          | 94   | 512                  | Below Cal | #      | 55       |
| 11) Tert butyl alcohol        | 5.203          | 59   | 1106                 | Below Cal | #      | 83       |
| 13) Acrolein                  | 4.144          | 56   | 66                   | 1.529     | ug/l # | 15       |
| 16) Acetone                   | 4.156          | 43   | 11955                | 91.598    | ug/l # | 60       |
| 18) Methyl Acetate            | 4.685          | 43   | 118                  | Below Cal | #      | 49       |
| 20) Methylene Chloride        | 4.962          | 84   | 1997                 | Below Cal | #      | 86       |
| 23) Vinyl Acetate             | 6.338          | 43   | 113                  | 19.105    | ug/l # | 70       |
| 25) 2-Butanone                | 7.197          | 43   | 972                  | 5.861     | ug/l # | 44       |
| 26) 2,2-Dichloropropane       | 7.197          | 77   | 1226                 | 1.091     | ug/l # | 53       |
| 31) Cyclohexane               | 7.973          | 56   | 1763                 | 1.689     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 6849                 | 5.768     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.985          | 117  | 6857                 | 5.835     | ug/l # | 18       |
| 71) Bromoform                 | 12.626         | 173  | 694                  | 1.369     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 28597                | 46.022    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 28597                | 114.910   | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.643         | 75   | 145                  | 1.091     | ug/l # | 4        |
| 95) Naphthalene               | 15.402         | 128  | 122                  | 3.412     | ug/l # | 69       |
| -----                         |                |      |                      |           |        |          |

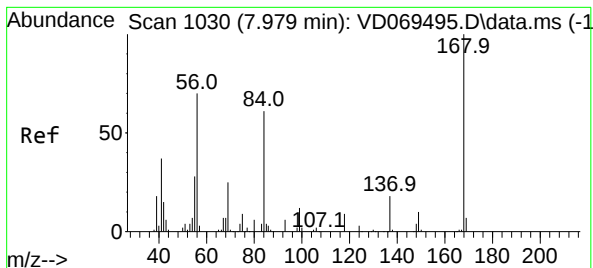
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-10-9.5-10.0

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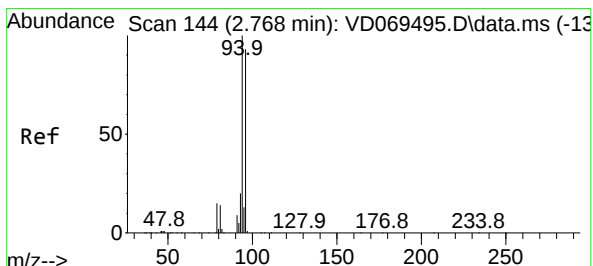
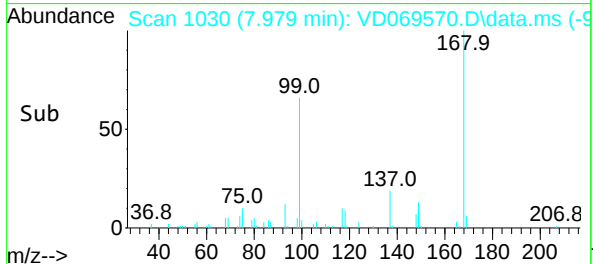
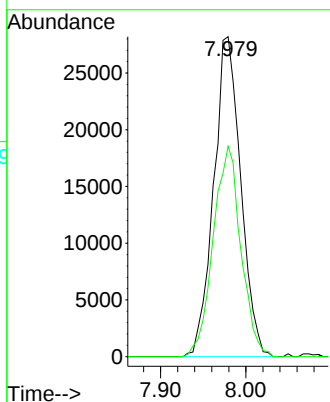
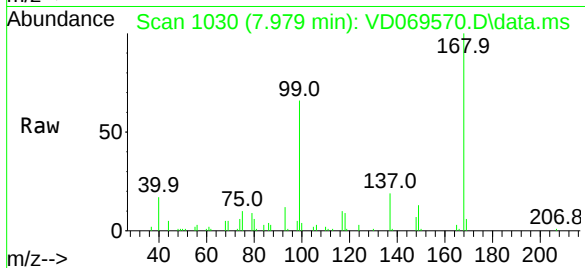




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

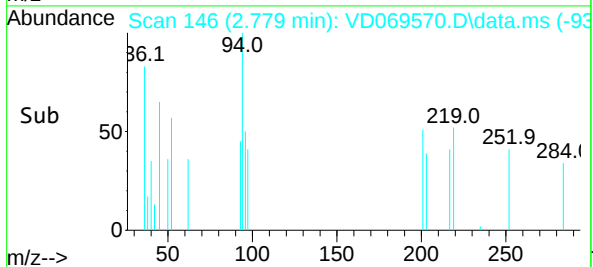
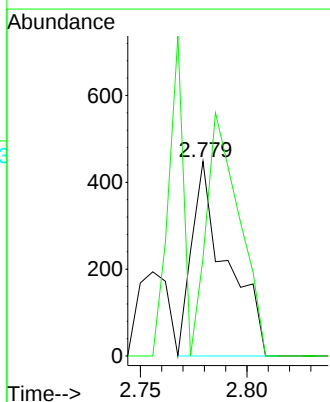
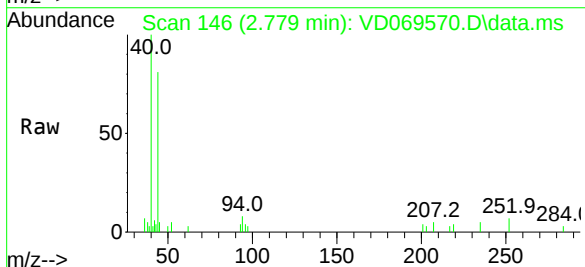
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

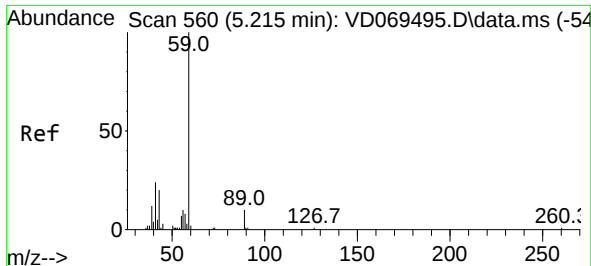
Tgt Ion:168 Resp: 62209  
Ion Ratio Lower Upper  
168 100  
99 65.8 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.011 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 94 Resp: 512  
Ion Ratio Lower Upper  
94 100  
96 50.2 74.6 111.8#

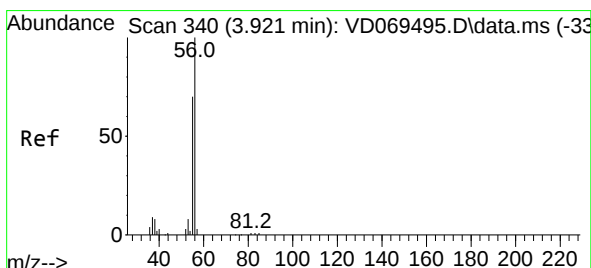
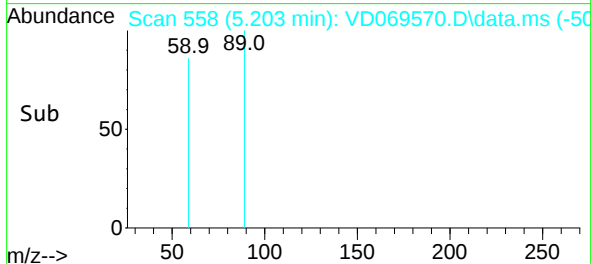
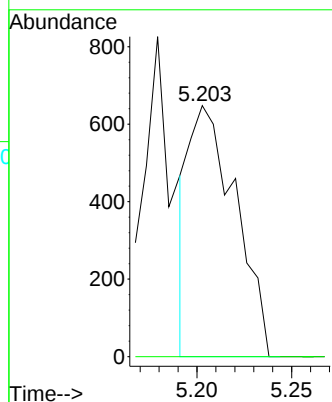
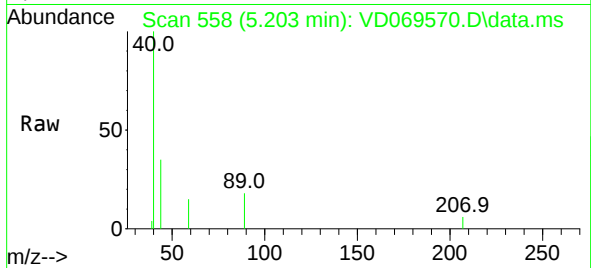




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.203 min Scan# 558  
Delta R.T. -0.012 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

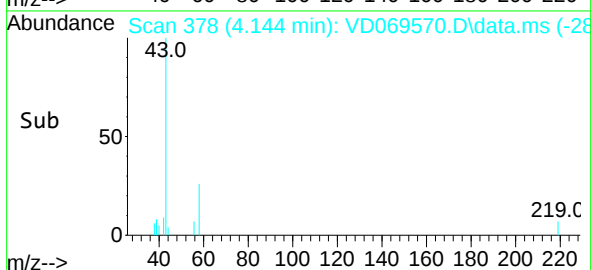
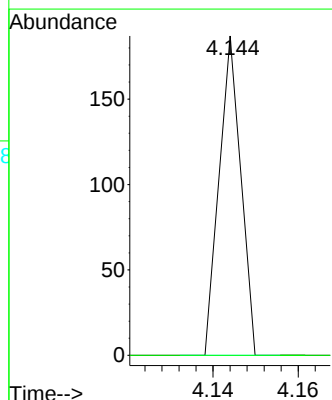
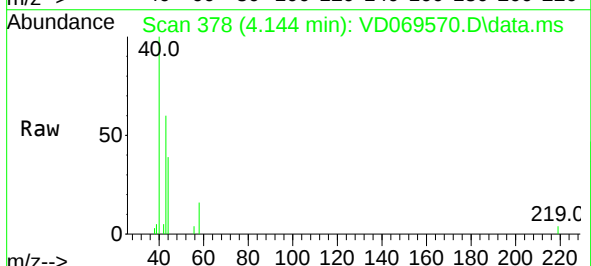
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

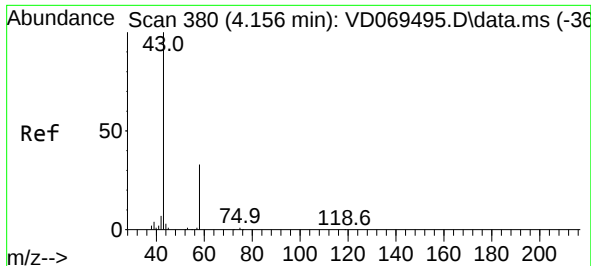
Tgt Ion: 59 Resp: 1106  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.6 7.0#



#13  
Acrolein  
Concen: 1.529 ug/l  
RT: 4.144 min Scan# 378  
Delta R.T. 0.223 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 56 Resp: 66  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.0 84.0#

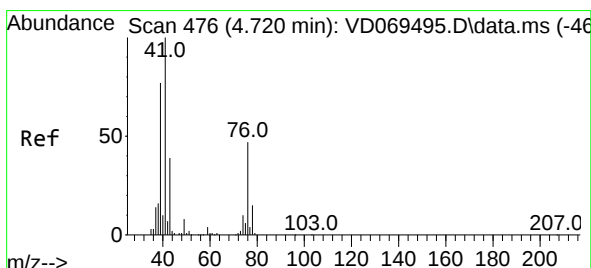
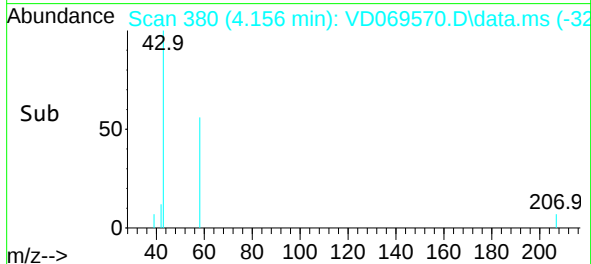
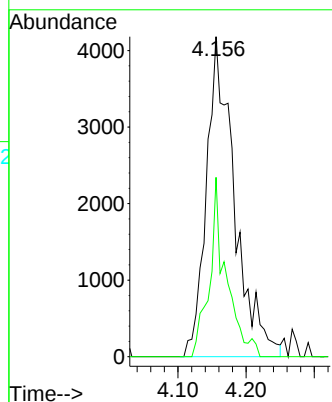
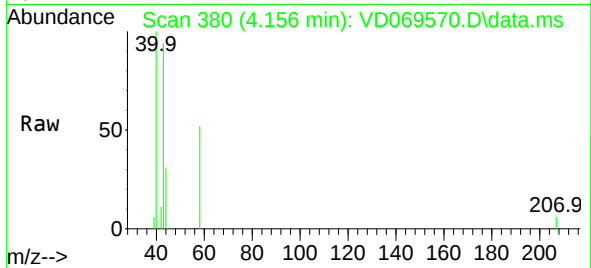




#16  
Acetone  
Concen: 91.598 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

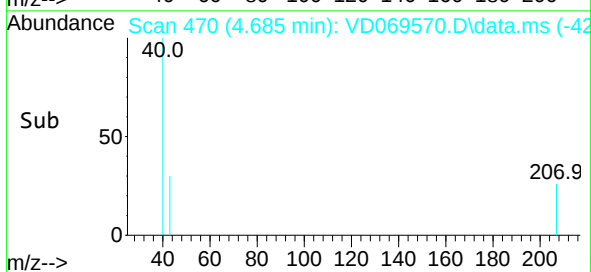
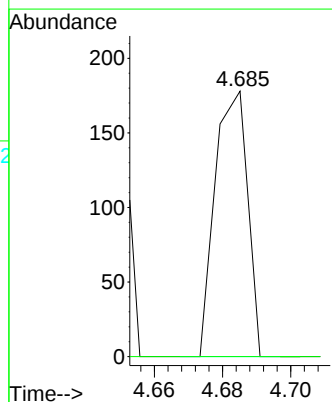
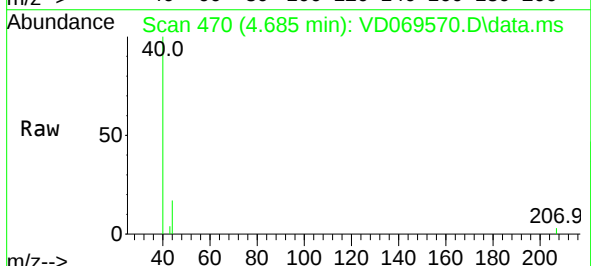
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SB-10-9.5-10.0

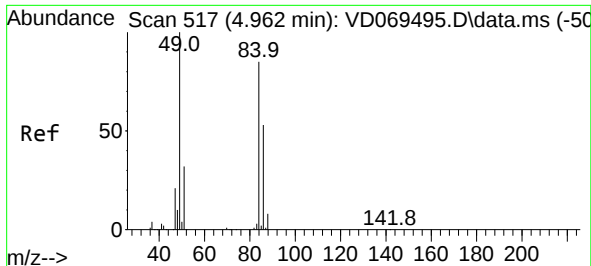
Tgt Ion: 43 Resp: 11955  
Ion Ratio Lower Upper  
43 100  
58 56.1 26.8 40.2#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.685 min Scan# 470  
Delta R.T. -0.035 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 43 Resp: 118  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#

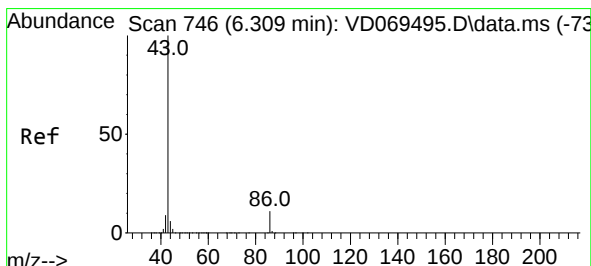
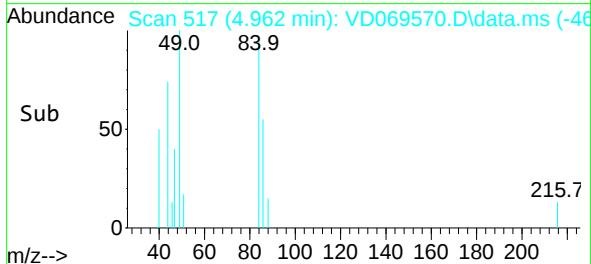
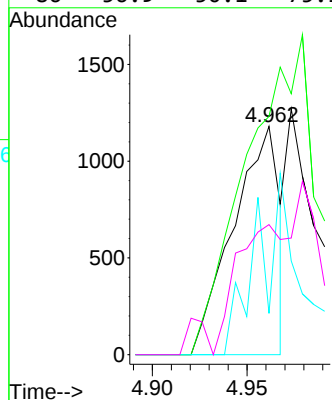
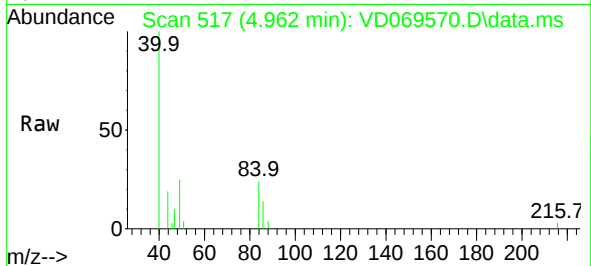




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

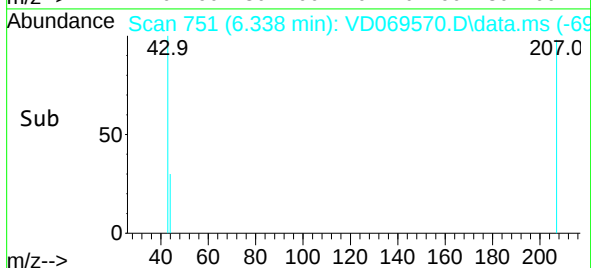
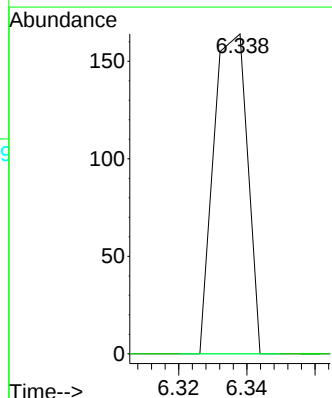
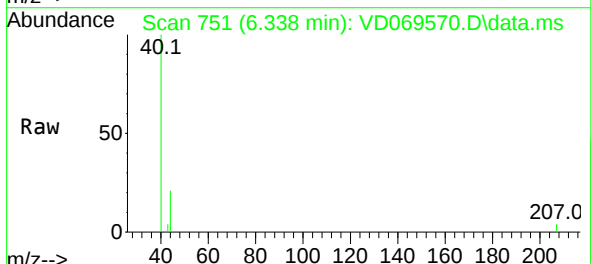
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

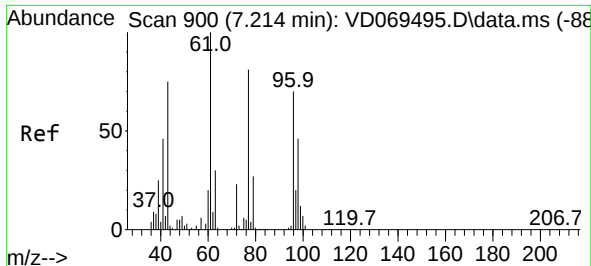
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1997  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 104.3 | 94.0  | 141.0 |
| 51       | 18.1  | 29.7  | 44.5# |
| 86       | 56.9  | 50.1  | 75.1  |



#23  
Vinyl Acetate  
Concen: 19.105 ug/l  
RT: 6.338 min Scan# 751  
Delta R.T. 0.029 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

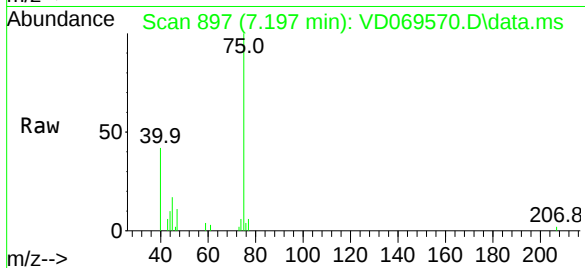
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 113   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 9.1   | 13.7# |



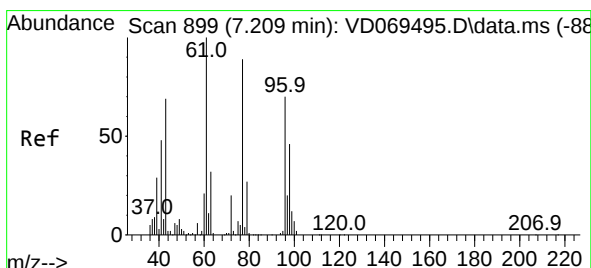
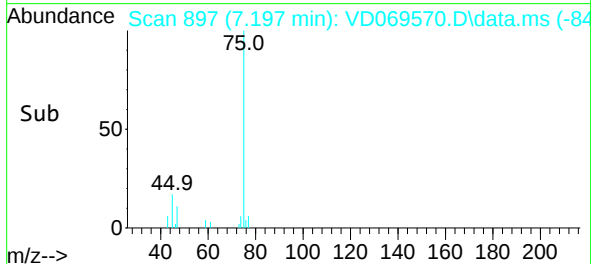
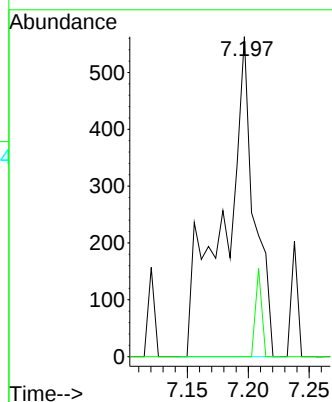


#25  
2-Butanone  
Concen: 5.861 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.018 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

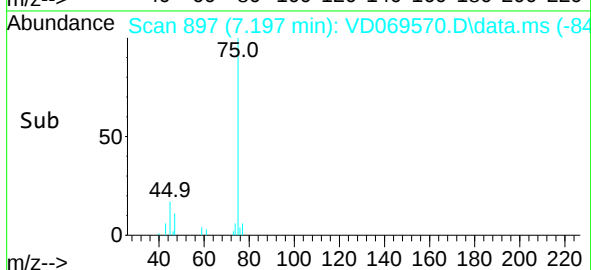
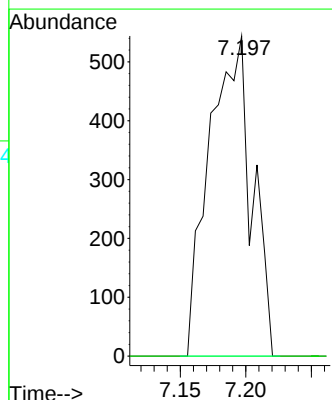
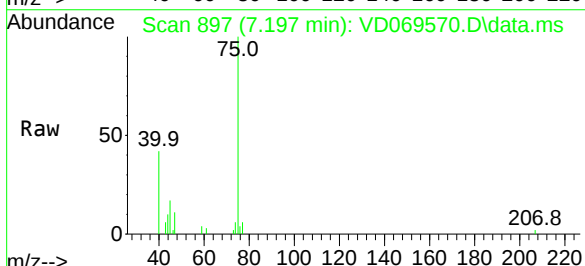


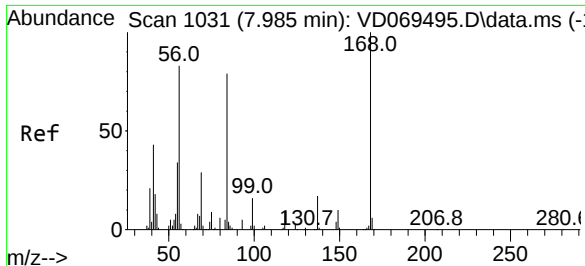
Tgt Ion: 43 Resp: 972  
Ion Ratio Lower Upper  
43 100  
72 0.0 24.3 36.5#



#26  
2,2-Dichloropropane  
Concen: 1.091 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 77 Resp: 1226  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.5 34.5#

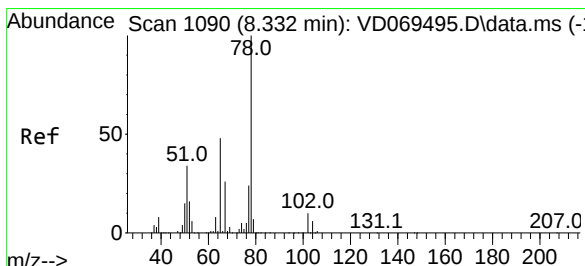
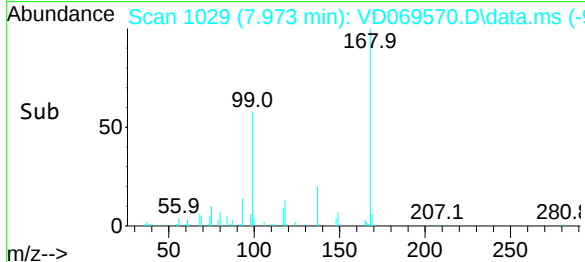
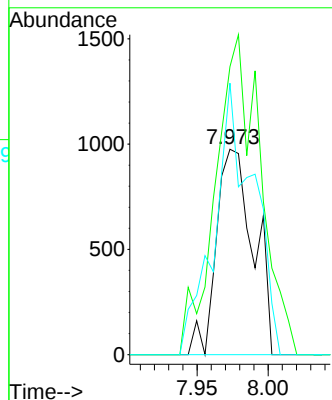
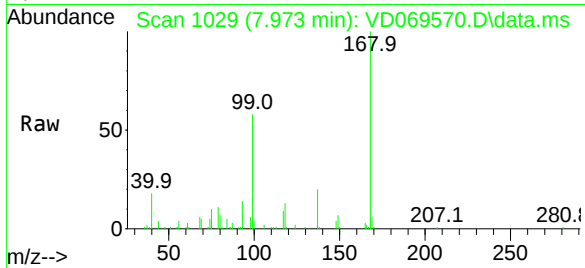




#31  
Cyclohexane  
Concen: 1.689 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

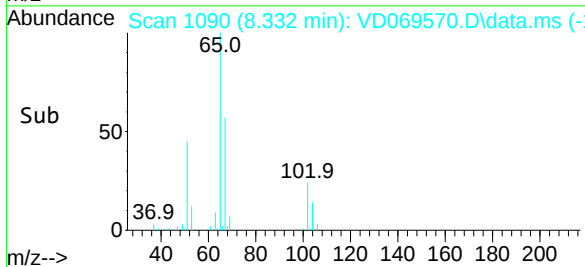
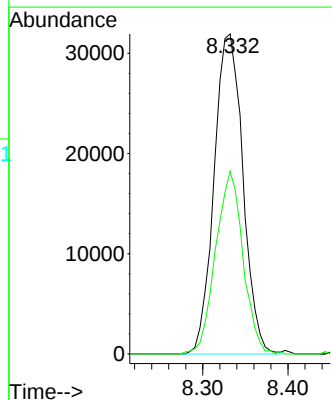
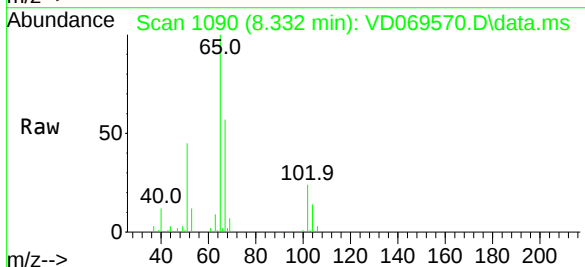
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

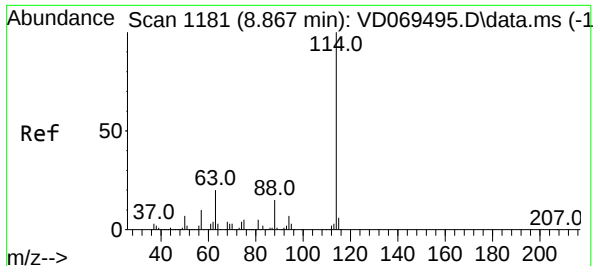
Tgt Ion: 56 Resp: 1763  
Ion Ratio Lower Upper  
56 100  
69 140.2 28.0 42.0#  
84 132.2 75.7 113.5#



#33  
1,2-Dichloroethane-d4  
Concen: 96.624 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 65 Resp: 74925  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 105.6



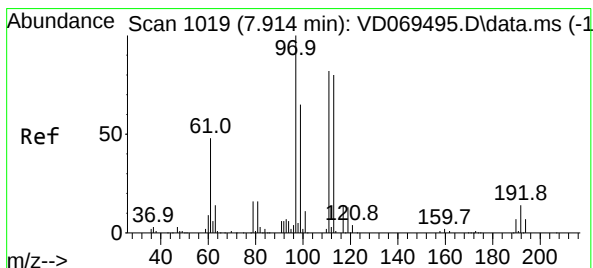
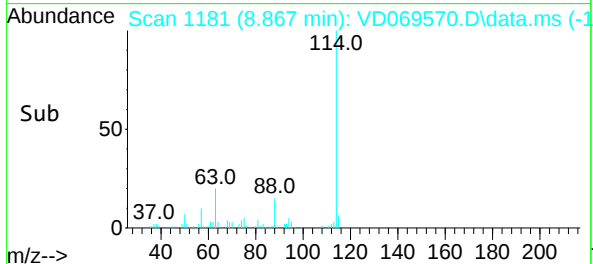
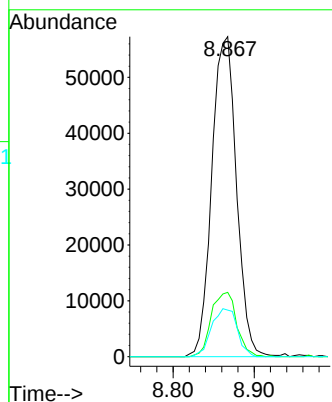
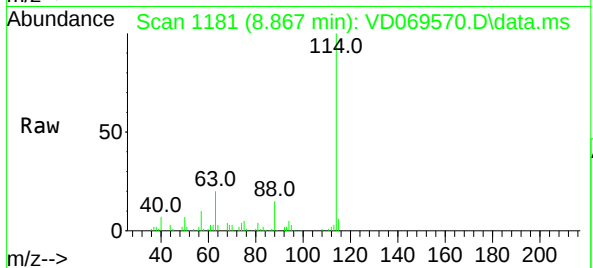


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

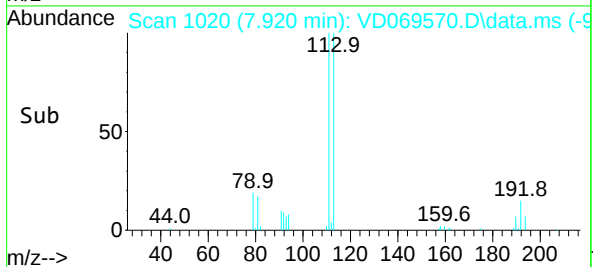
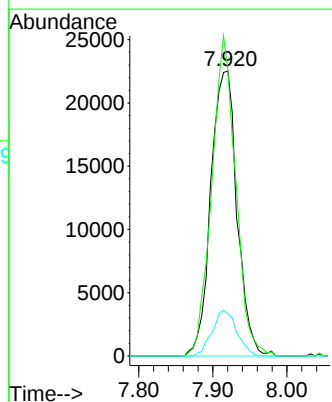
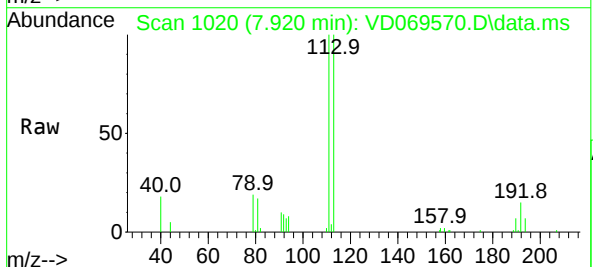
Tgt Ion:114 Resp: 120989  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 39.6  
88 14.6 0.0 29.8

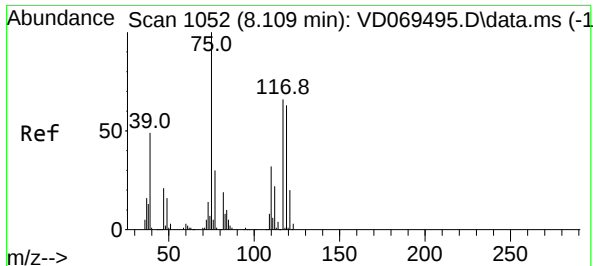


#35

Dibromofluoromethane  
Concen: 67.724 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.006 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion:113 Resp: 55389  
Ion Ratio Lower Upper  
113 100  
111 102.6 81.8 122.8  
192 15.1 13.8 20.6

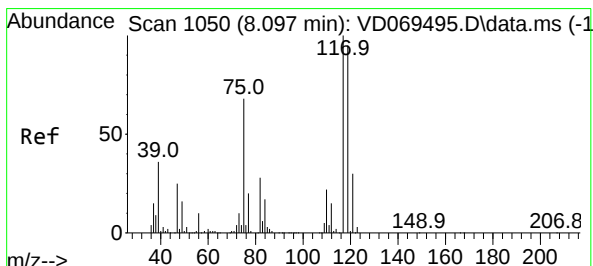
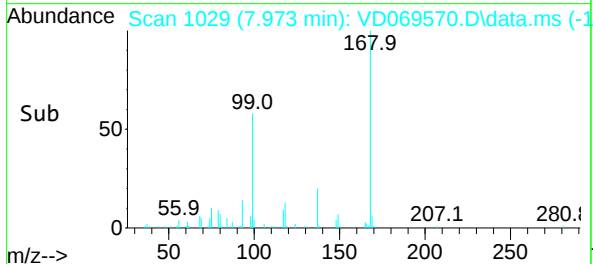
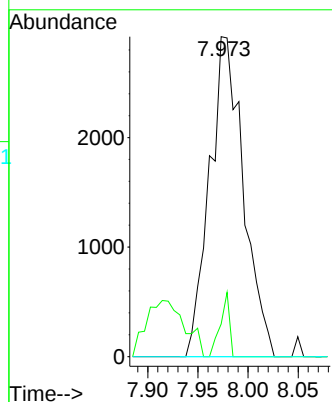
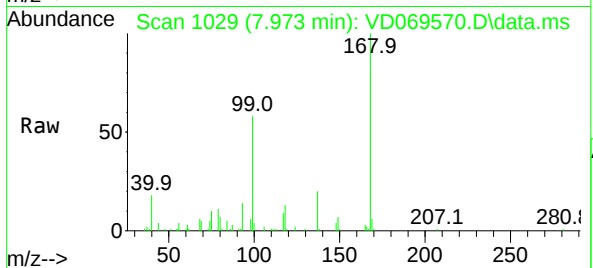




#36  
1,1-Dichloropropene  
Concen: 5.768 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

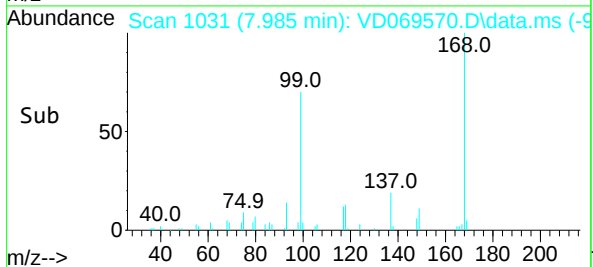
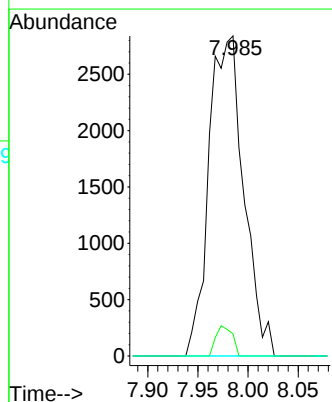
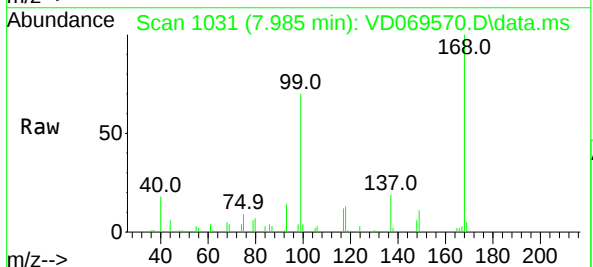
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

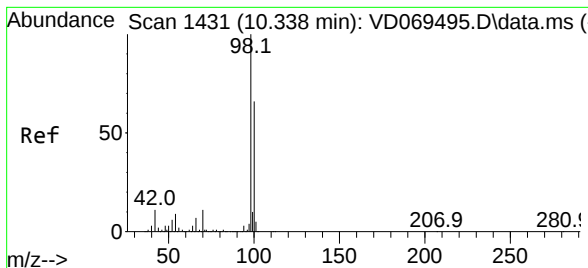
Tgt Ion: 75 Resp: 6849  
Ion Ratio Lower Upper  
75 100  
110 5.4 16.8 50.4#  
77 0.0 24.3 36.5#



#38  
Carbon Tetrachloride  
Concen: 5.835 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.112 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 117 Resp: 6857  
Ion Ratio Lower Upper  
117 100  
119 6.9 75.6 113.4#  
121 0.0 23.8 35.8#

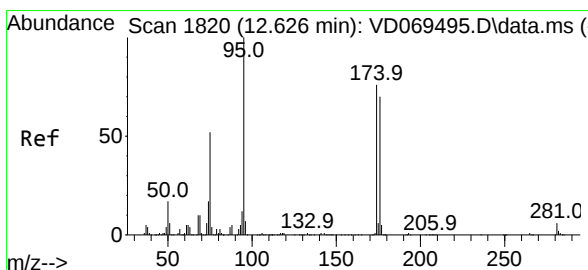
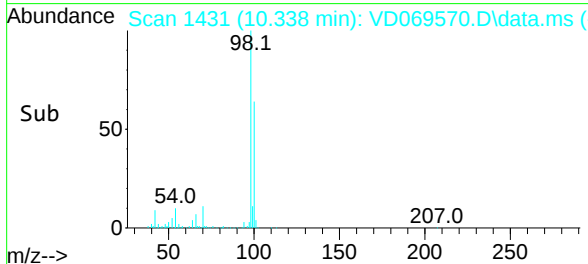
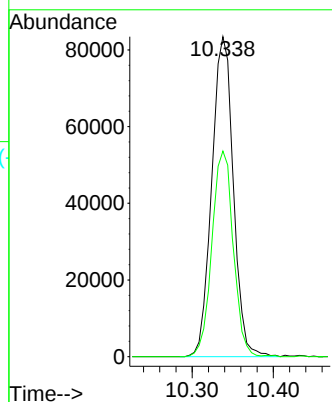
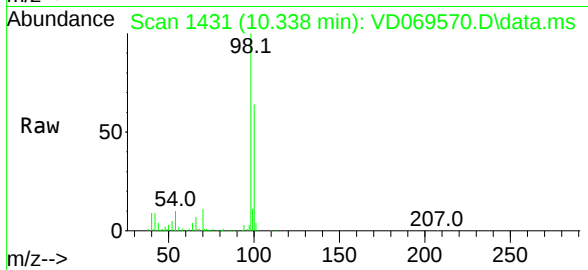




#50  
Toluene-d8  
Concen: 50.162 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

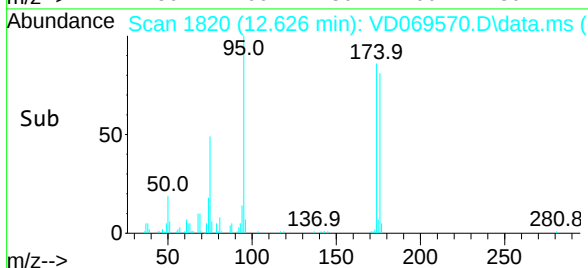
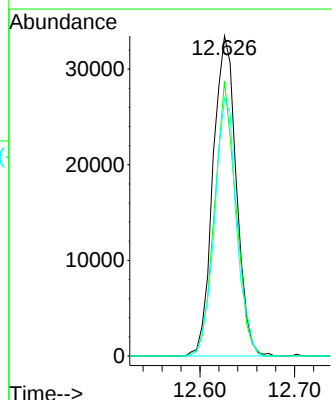
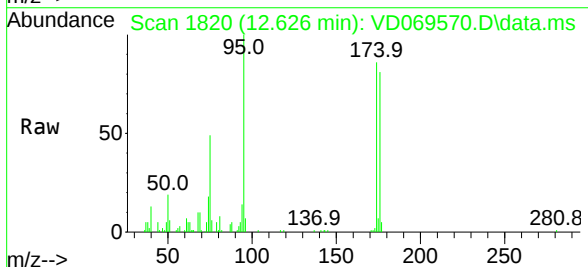
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

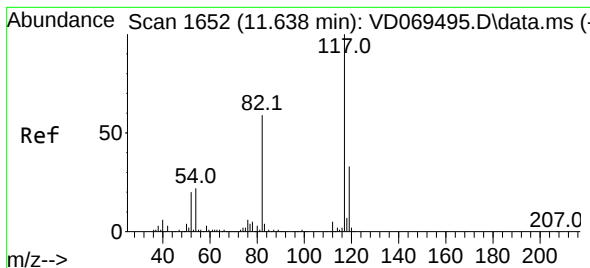
Tgt Ion: 98 Resp: 153883  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.3 78.5



#62  
4-Bromofluorobenzene  
Concen: 56.656 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 95 Resp: 57140  
Ion Ratio Lower Upper  
95 100  
174 78.5 0.0 148.0  
176 76.7 0.0 139.8

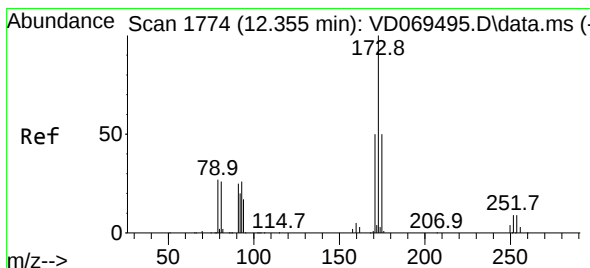
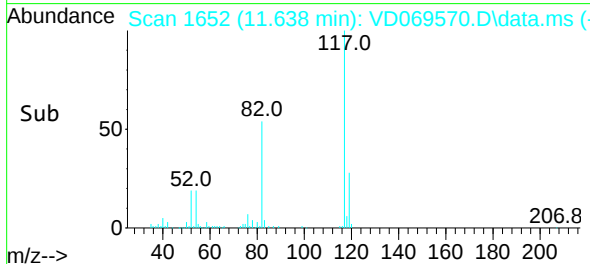
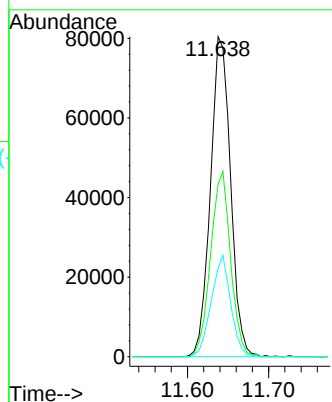
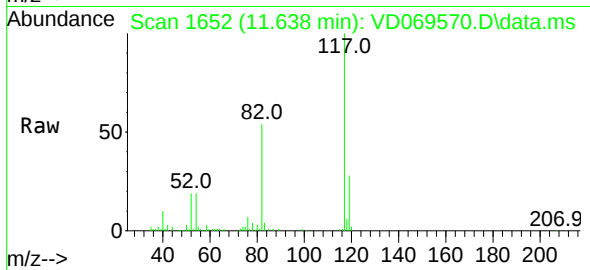




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

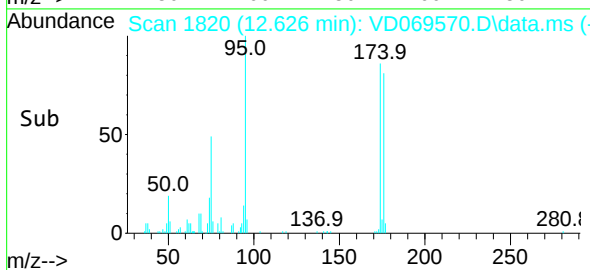
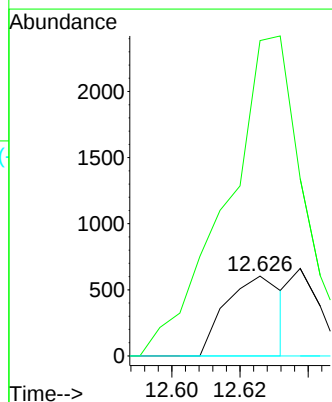
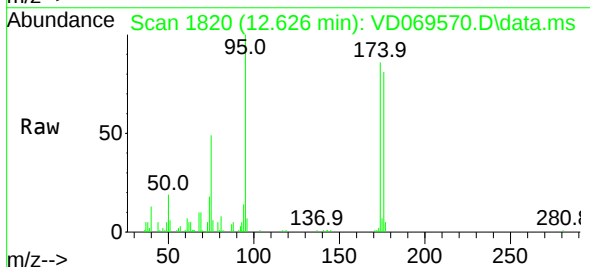
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

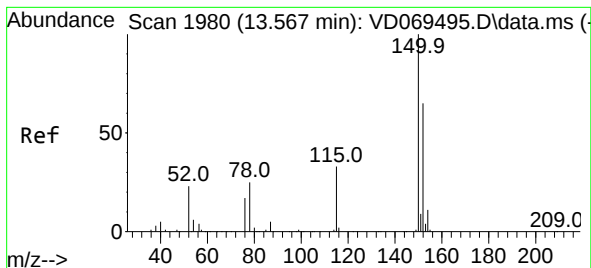
Tgt Ion:117 Resp: 138348  
Ion Ratio Lower Upper  
117 100  
82 53.9 46.8 70.2  
119 27.6 26.2 39.2



#71  
Bromoform  
Concen: 1.369 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.271 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion:173 Resp: 694  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.8#  
254 0.0 0.1 0.1#

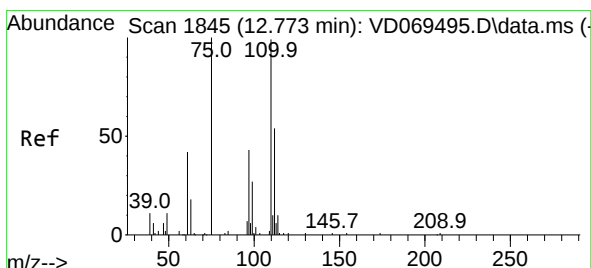
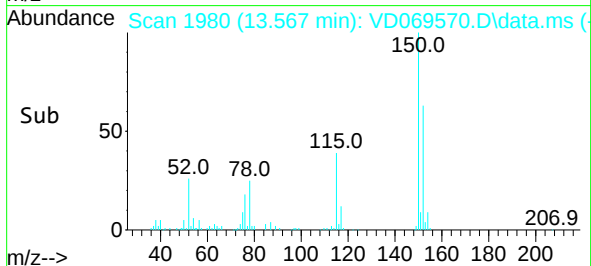
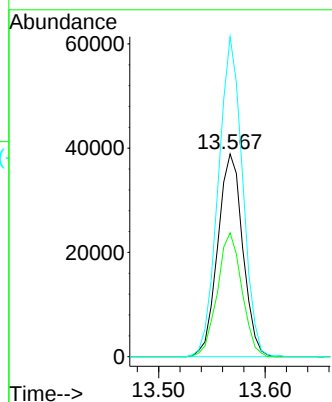
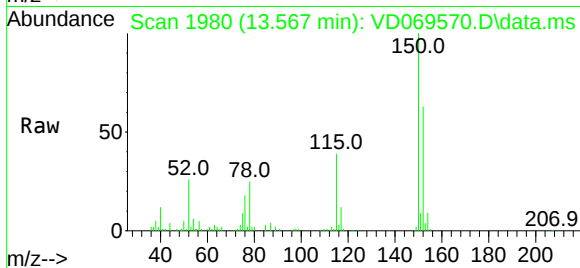




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

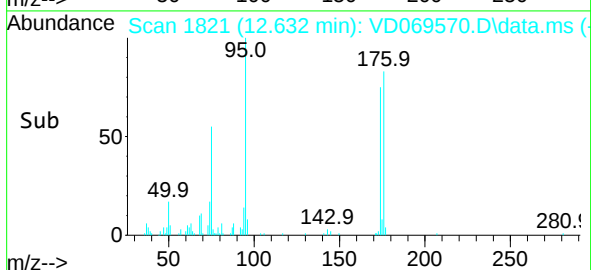
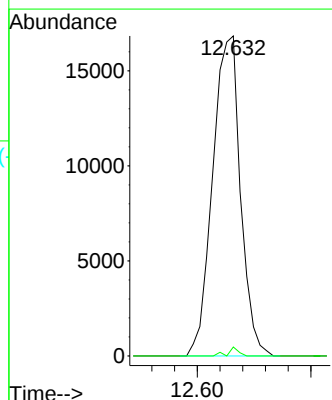
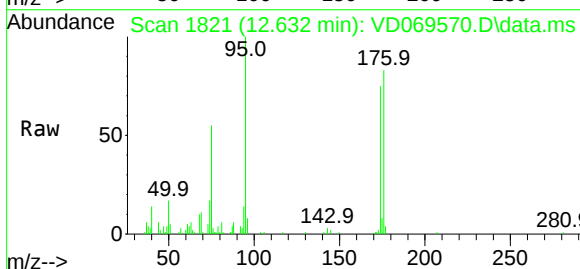
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

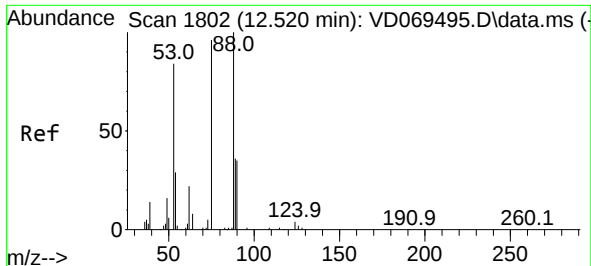
Tgt Ion:152 Resp: 63301  
Ion Ratio Lower Upper  
152 100  
115 59.7 31.7 95.1  
150 153.4 0.0 350.8



#76  
1,2,3-Trichloropropane  
Concen: 46.022 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.141 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 75 Resp: 28597  
Ion Ratio Lower Upper  
75 100  
77 1.0 162.6 487.8#

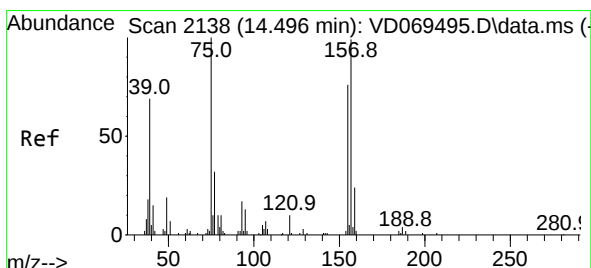
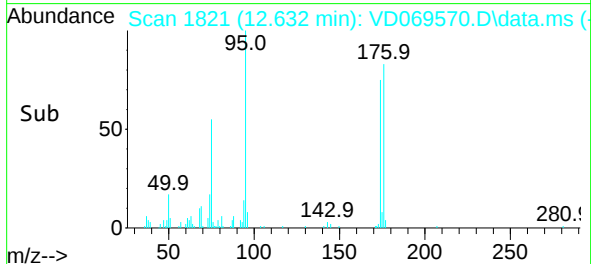
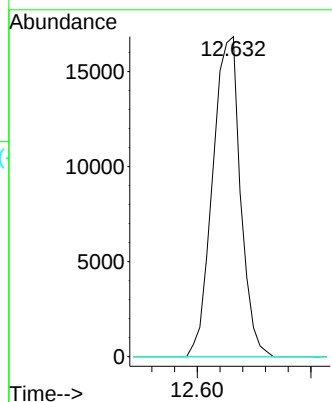
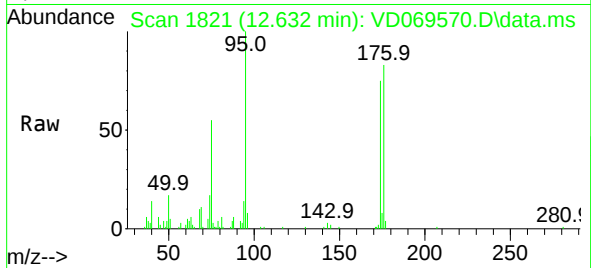




#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.910 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.112 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

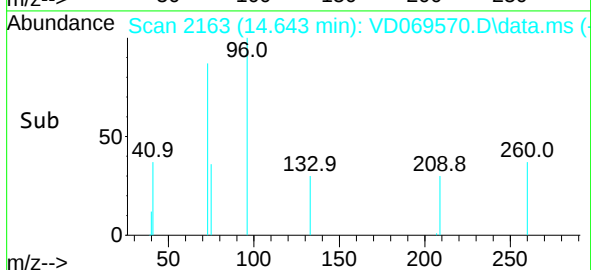
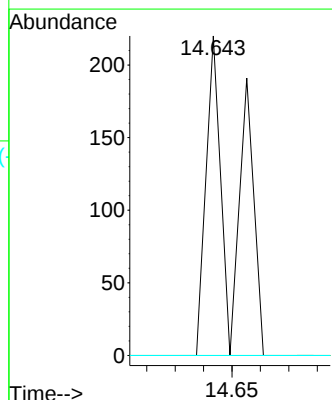
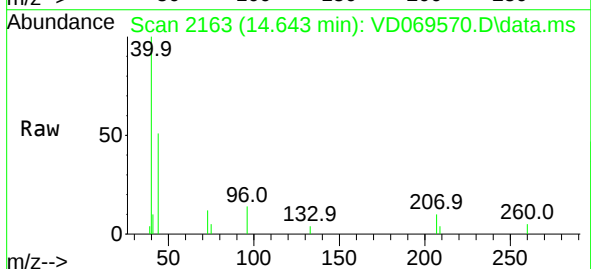
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

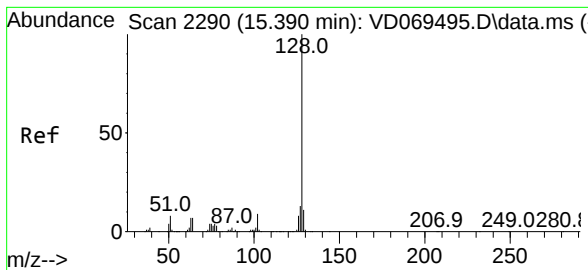
Tgt Ion: 75 Resp: 28597  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.6 112.0#  
89 0.0 35.3 52.9#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.091 ug/l  
RT: 14.643 min Scan# 2163  
Delta R.T. 0.147 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Tgt Ion: 75 Resp: 145  
Ion Ratio Lower Upper  
75 100  
155 0.0 39.4 118.1#  
157 0.0 51.2 153.6#





#95  
Naphthalene  
Concen: 3.412 ug/l  
RT: 15.402 min Scan# 2292  
Delta R.T. 0.012 min  
Lab File: VD069570.D  
Acq: 25 Jun 2021 17:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10-9.5-10.0

Tgt Ion:128 Resp: 122  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.7 13.1#

