

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092221\  
 Data File : VD070428.D  
 Acq On : 22 Sep 2021 15:54  
 Operator : VA/SY  
 Sample : M3867-04  
 Misc : 5.47G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4-(5.0-6.0)

Quant Time: Sep 23 05:33:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

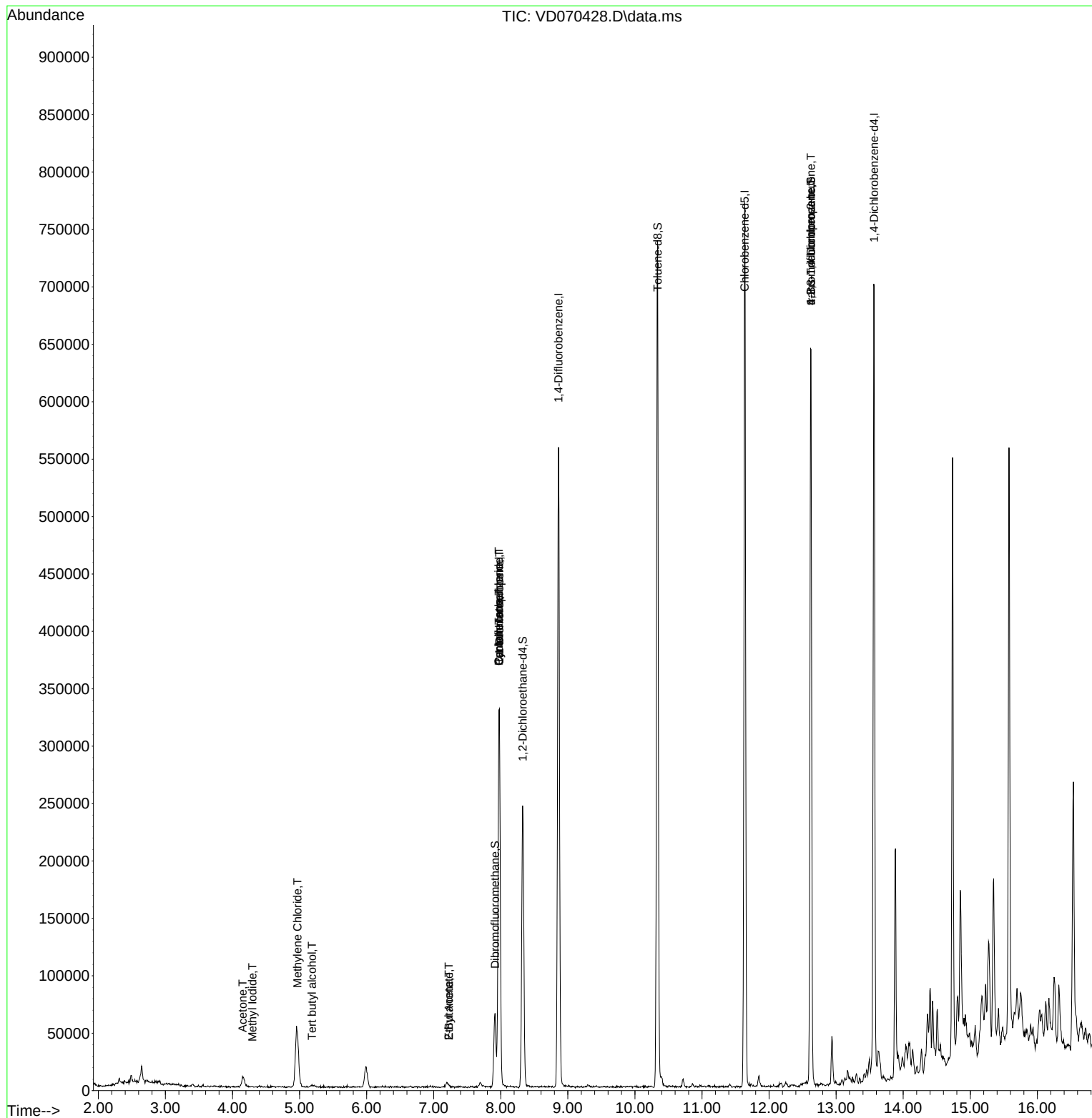
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 236683   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861     | 114   | 480215   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 459633   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567    | 152   | 184725   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326     | 65    | 191322   | 62.954    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 125.900% |          |
| 35) Dibromofluoromethane      | 7.914     | 113   | 47481    | 13.891    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 27.780%# |          |
| 50) Toluene-d8                | 10.338    | 98    | 518577   | 41.784    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 83.560%  |          |
| 62) 4-Bromofluorobenzene      | 12.626    | 95    | 165161   | 38.078    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 76.160%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.985     | 85    | 66       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.209     | 50    | 370      | Below Cal | #          | 51       |
| 5) Bromomethane               | 2.773     | 94    | 481      | Below Cal | #          | 73       |
| 6) Chloroethane               | 2.709     | 64    | 139      | Below Cal | #          | 43       |
| 10) Methyl Iodide             | 4.297     | 142   | 156      | 1.081     | ug/l #     | 39       |
| 11) Tert butyl alcohol        | 5.185     | 59    | 1344     | 3.911     | ug/l #     | 100      |
| 16) Acetone                   | 4.150     | 43    | 16208    | 29.872    | ug/l       | 98       |
| 18) Methyl Acetate            | 4.756     | 43    | 62       | Below Cal | #          | 48       |
| 20) Methylene Chloride        | 4.967     | 84    | 44093    | 6.759     | ug/l       | 92       |
| 25) 2-Butanone                | 7.226     | 43    | 3945     | 5.462     | ug/l       | 97       |
| 31) Cyclohexane               | 7.973     | 56    | 5635     | 1.076     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.979     | 75    | 21215    | 4.133     | ug/l #     | 49       |
| 37) Ethyl Acetate             | 7.226     | 43    | 3945     | 2.055     | ug/l #     | 65       |
| 38) Carbon Tetrachloride      | 7.973     | 117   | 26502    | 5.221     | ug/l #     | 16       |
| 76) 1,2,3-Trichloropropane    | 12.626    | 75    | 78397    | 41.957    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626    | 75    | 78397    | 105.127   | ug/l #     | 18       |
| -----                         |           |       |          |           |            |          |

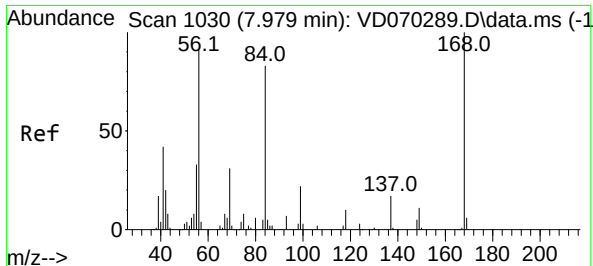
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092221\  
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Sample : M3867-04  
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ALS Vial : 15 Sample Multiplier: 1

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ClientSampleId :  
SB-4-(5.0-6.0)

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 09 03:07:09 2021  
Response via : Initial Calibration

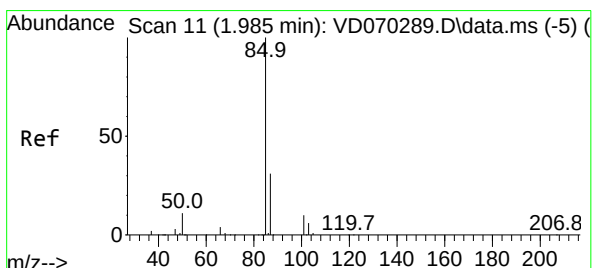
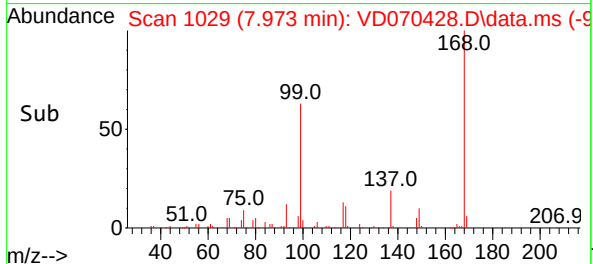
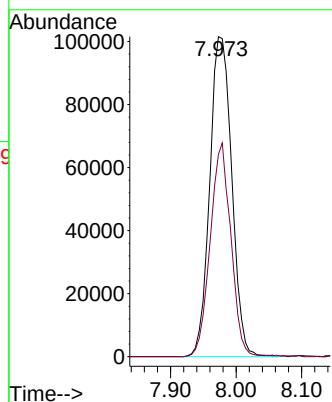
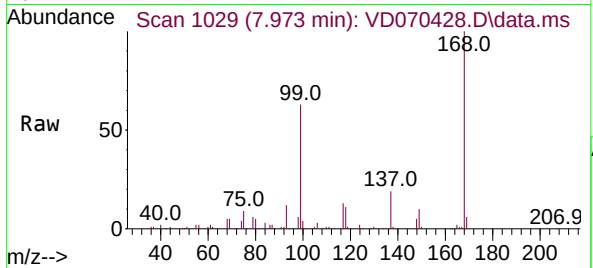




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

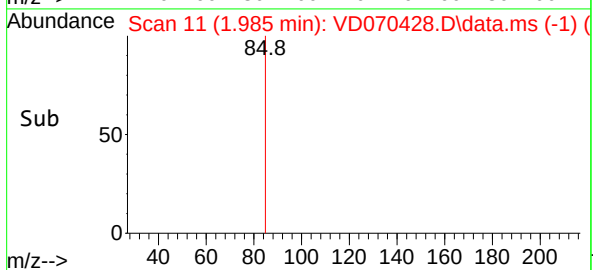
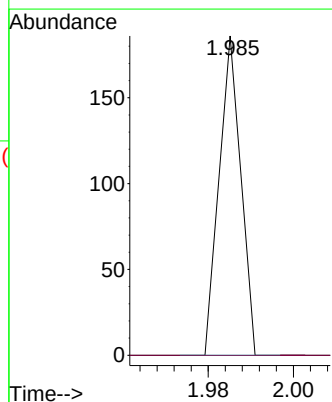
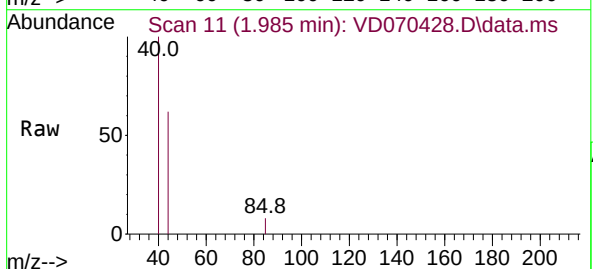
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

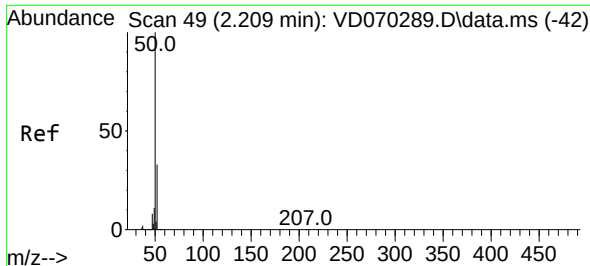
Tgt Ion:168 Resp: 236683  
Ion Ratio Lower Upper  
168 100  
99 63.2 50.8 76.2



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.985 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 85 Resp: 66  
Ion Ratio Lower Upper  
85 100  
87 0.0 15.6 46.8#

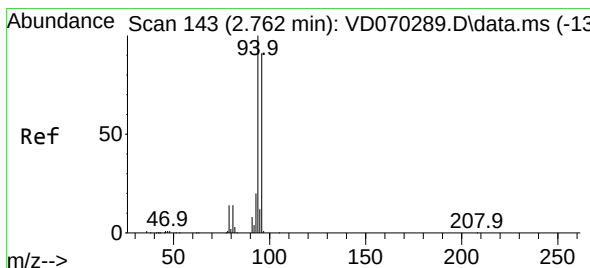
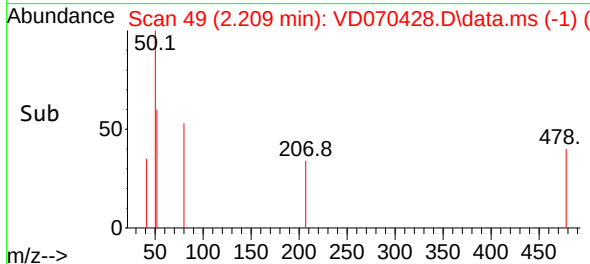
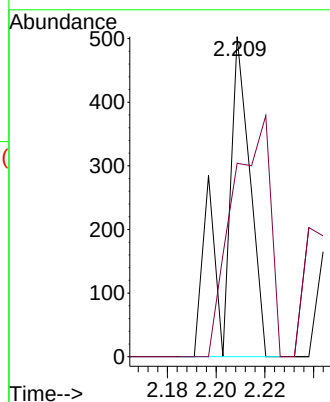
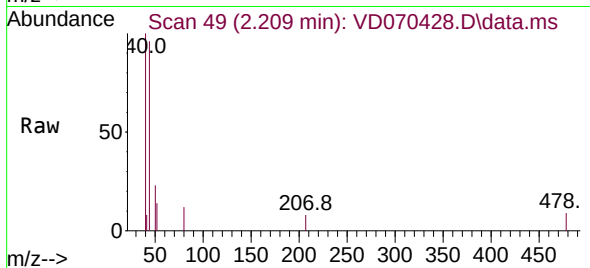




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

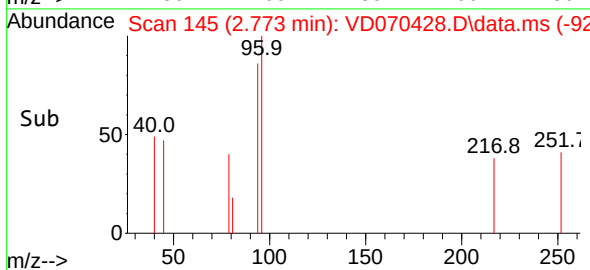
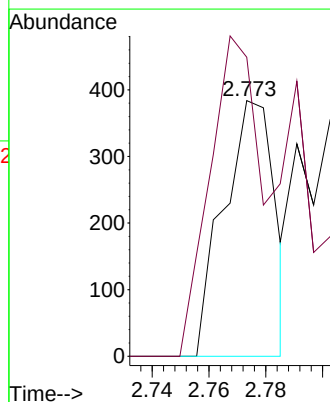
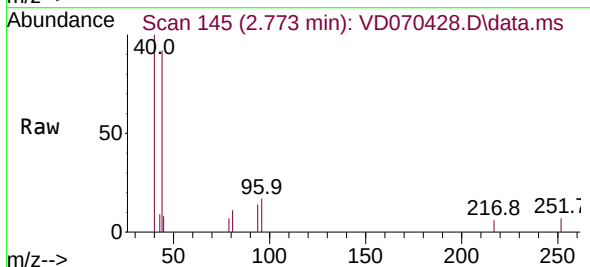
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

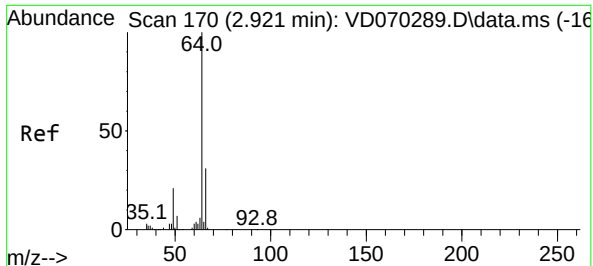
Tgt Ion: 50 Resp: 370  
Ion Ratio Lower Upper  
50 100  
52 60.4 26.2 39.2#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 94 Resp: 481  
Ion Ratio Lower Upper  
94 100  
96 116.9 73.0 109.6#

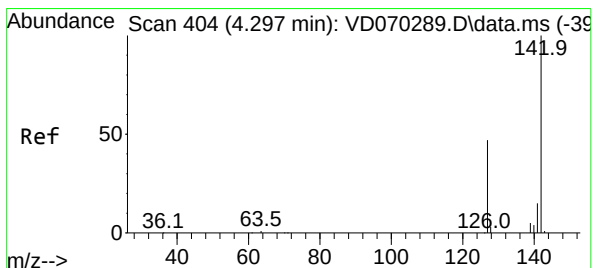
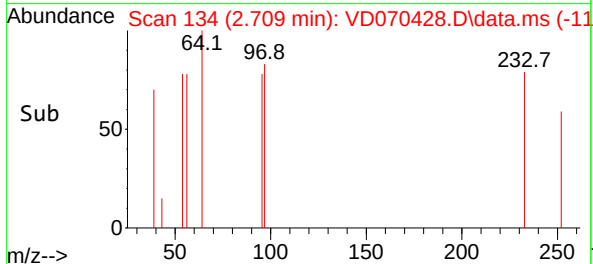
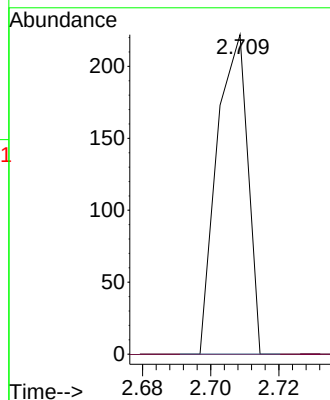
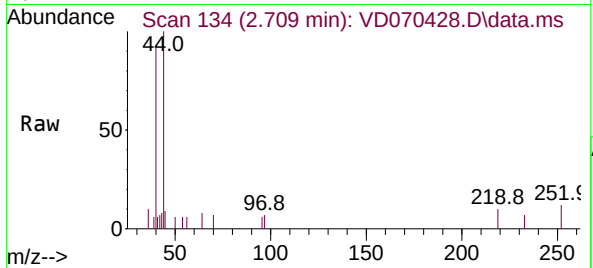




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.709 min Scan# 134  
Delta R.T. -0.212 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

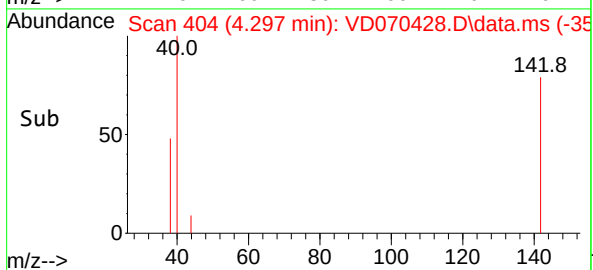
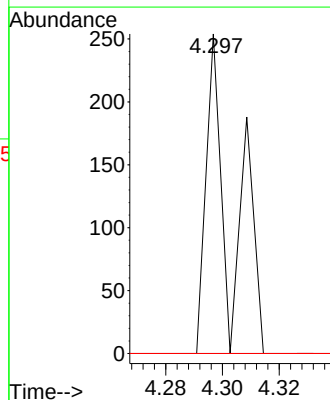
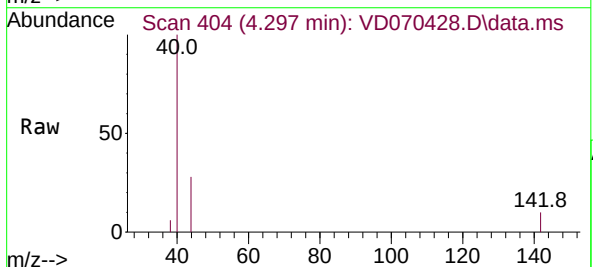
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

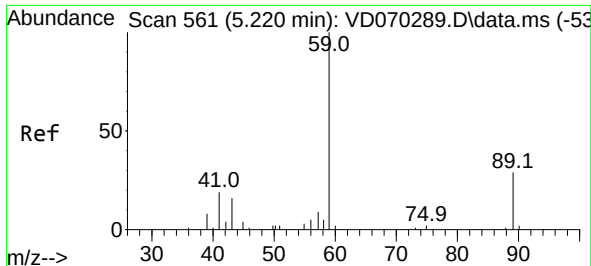
Tgt Ion: 64 Resp: 139  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.4#



#10  
Methyl Iodide  
Concen: 1.081 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 142 Resp: 156  
Ion Ratio Lower Upper  
142 100  
127 0.0 36.9 55.3#  
141 0.0 11.8 17.6#

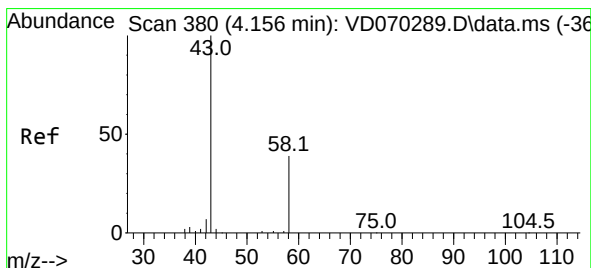
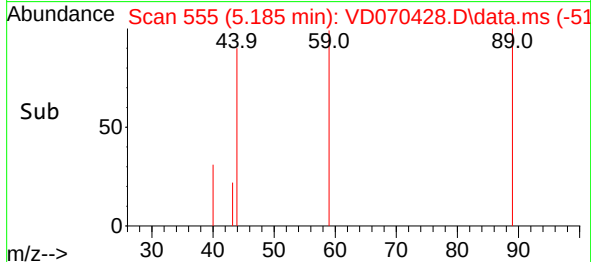
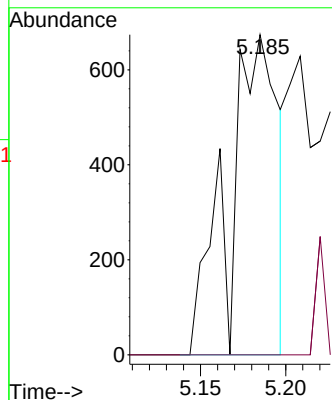
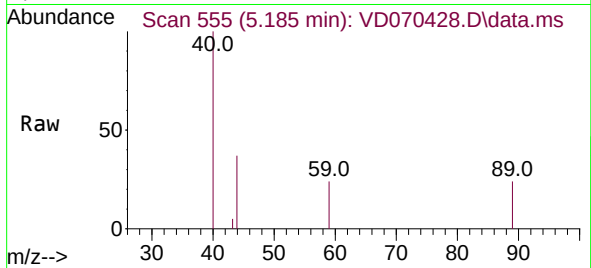




#11  
Tert butyl alcohol  
Concen: 3.911 ug/l  
RT: 5.185 min Scan# 555  
Delta R.T. -0.035 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

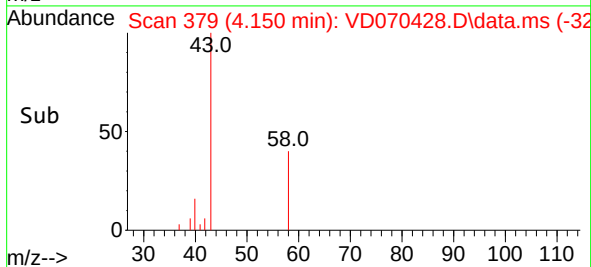
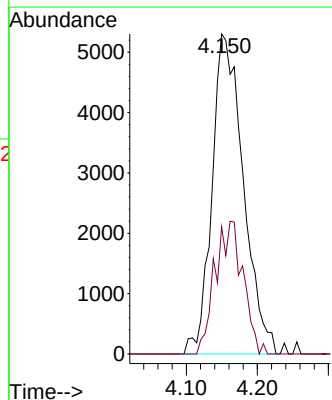
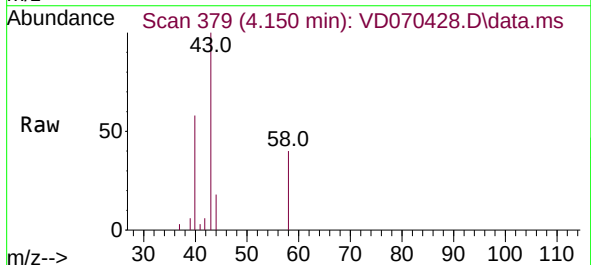
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SB-4-(5.0-6.0)

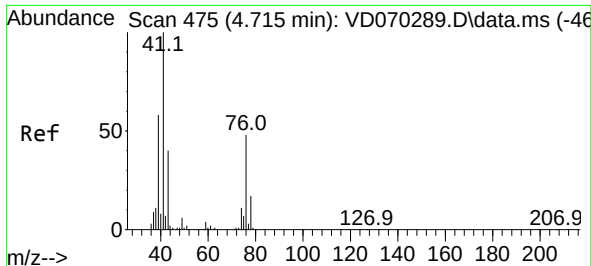
Tgt Ion: 59 Resp: 1344  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0



#16  
Acetone  
Concen: 29.872 ug/l  
RT: 4.150 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

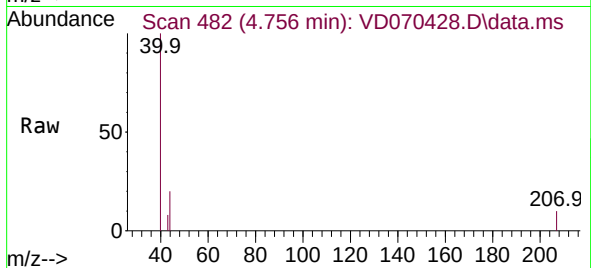
Tgt Ion: 43 Resp: 16208  
Ion Ratio Lower Upper  
43 100  
58 39.7 30.9 46.3



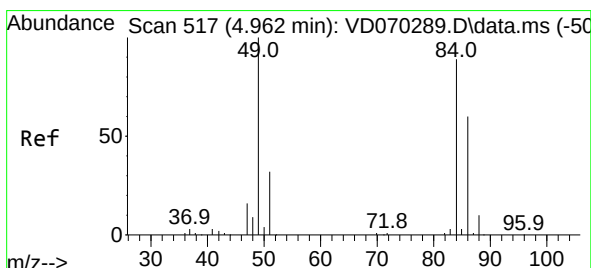
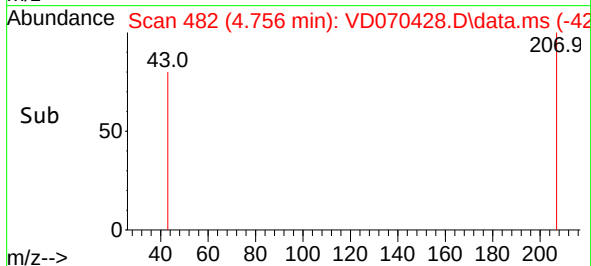
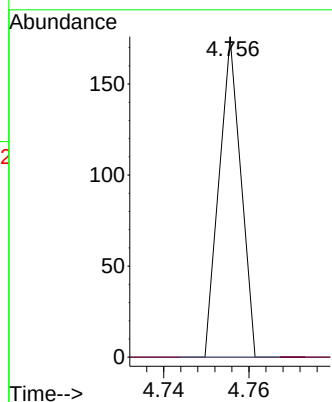


#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.756 min Scan# 482  
Delta R.T. 0.041 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

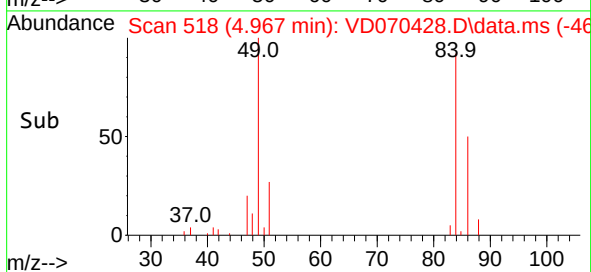
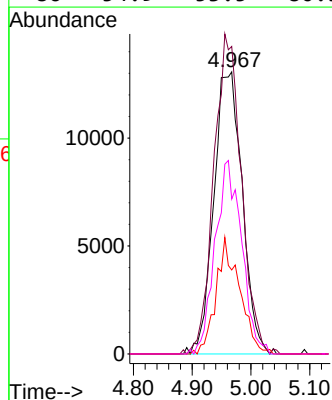
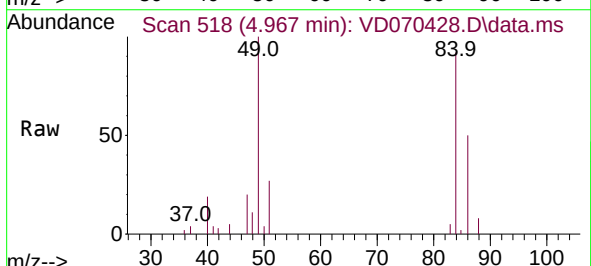


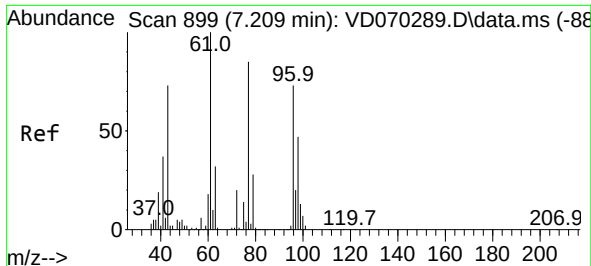
Tgt Ion: 43 Resp: 62  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.6 32.4#



#20  
Methylene Chloride  
Concen: 6.759 ug/l  
RT: 4.967 min Scan# 518  
Delta R.T. 0.005 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 84 Resp: 44093  
Ion Ratio Lower Upper  
84 100  
49 109.0 89.6 134.4  
51 29.8 28.6 43.0  
86 54.9 53.5 80.3

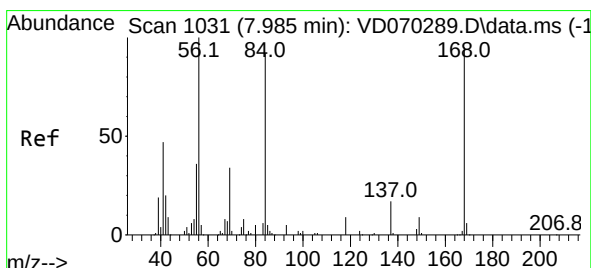
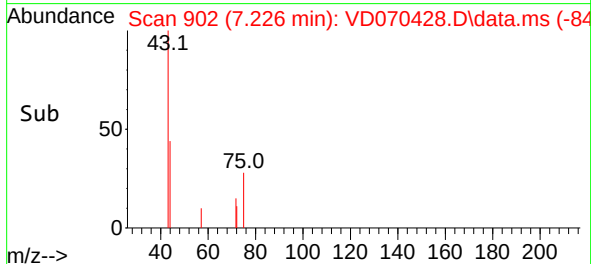
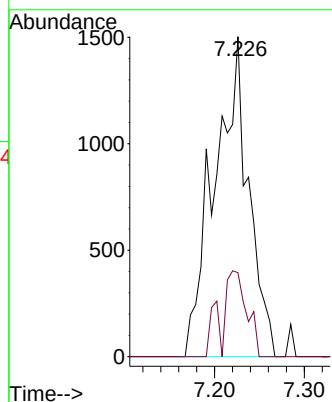
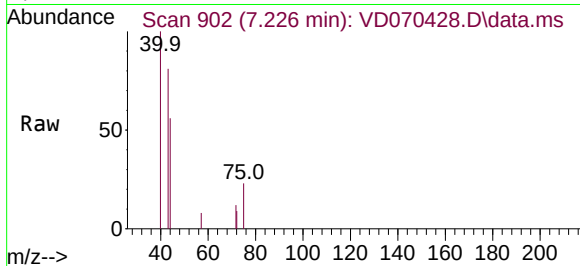




#25  
2-Butanone  
Concen: 5.462 ug/l  
RT: 7.226 min Scan# 902  
Delta R.T. 0.017 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

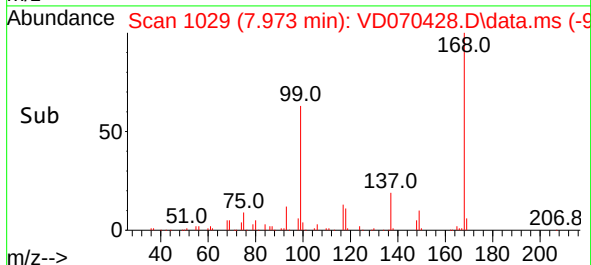
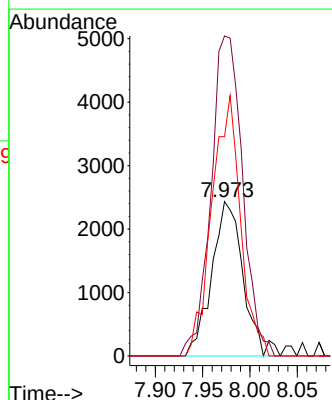
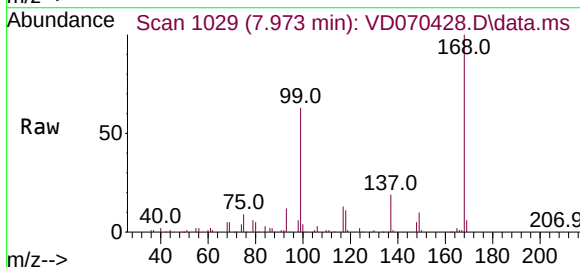
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

Tgt Ion: 43 Resp: 3945  
Ion Ratio Lower Upper  
43 100  
72 26.3 22.2 33.4

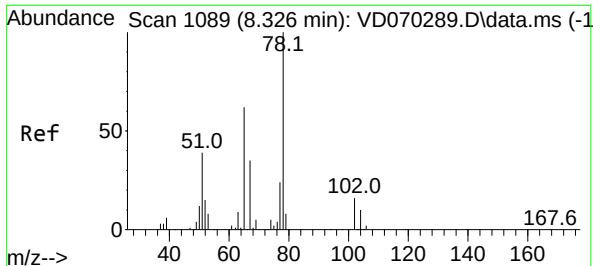


#31  
Cyclohexane  
Concen: 1.076 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 56 Resp: 5635  
Ion Ratio Lower Upper  
56 100  
69 207.1 26.9 40.3#  
84 142.0 73.6 110.4#



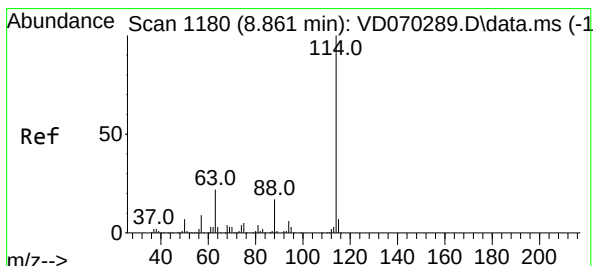
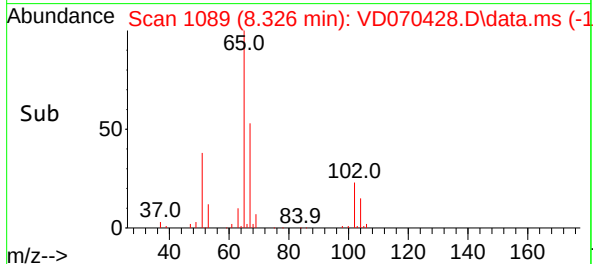
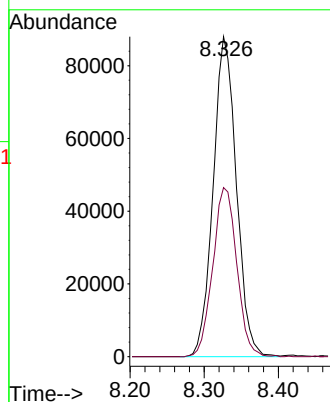
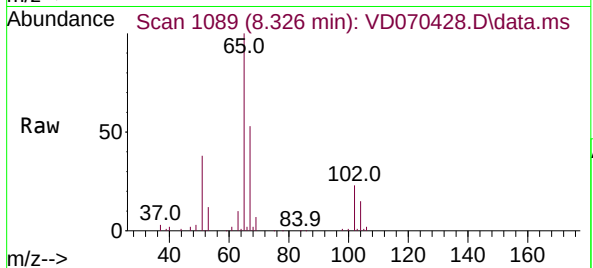




#33  
1,2-Dichloroethane-d4  
Concen: 62.954 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

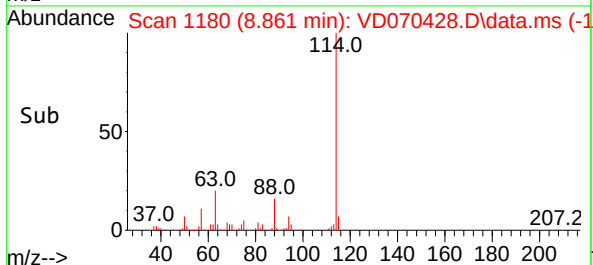
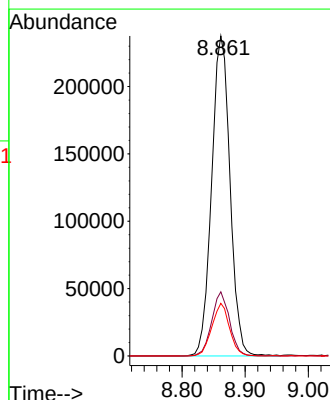
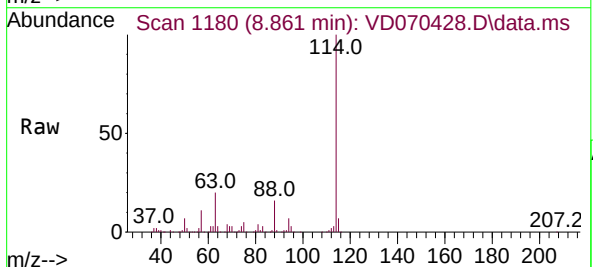
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

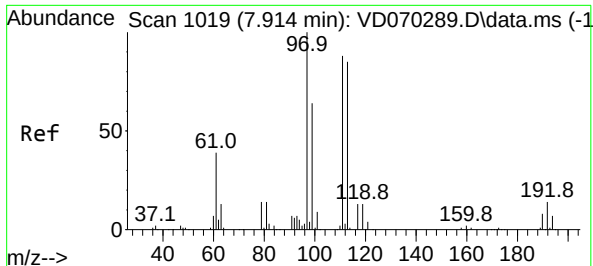
Tgt Ion: 65 Resp: 191322  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 111.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion:114 Resp: 480215  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 43.4  
88 16.5 0.0 33.4





#35

Dibromofluoromethane

Concen: 13.891 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD070428.D

Acq: 22 Sep 2021 15:54

Tgt Ion:113 Resp: 47481

Ion Ratio Lower Upper

113 100

111 100.1 81.4 122.2

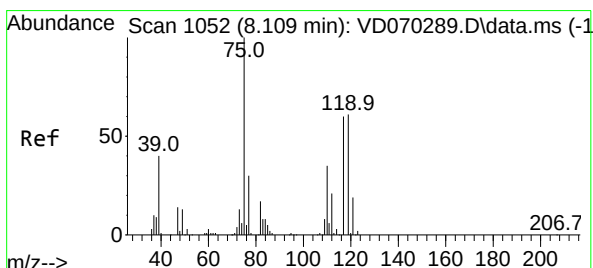
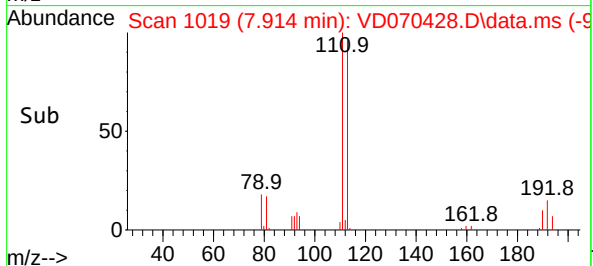
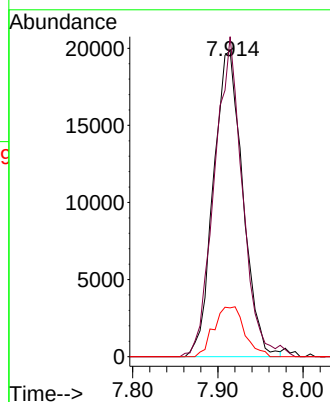
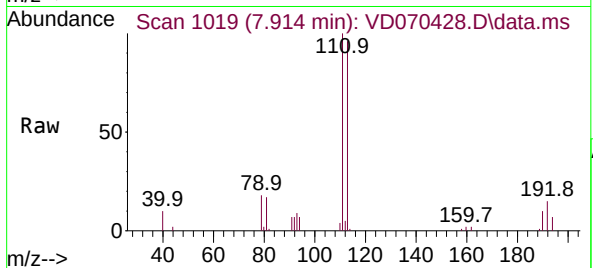
192 17.0 13.0 19.6

Instrument :

MSVOA\_D

ClientSampleId :

SB-4-(5.0-6.0)



#36

1,1-Dichloropropene

Concen: 4.133 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.130 min

Lab File: VD070428.D

Acq: 22 Sep 2021 15:54

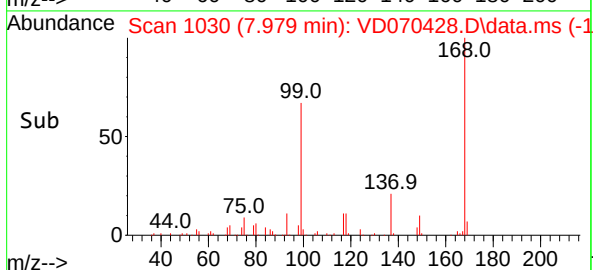
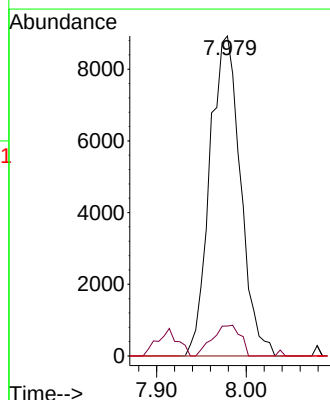
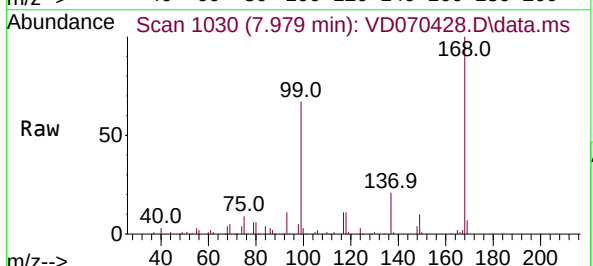
Tgt Ion: 75 Resp: 21215

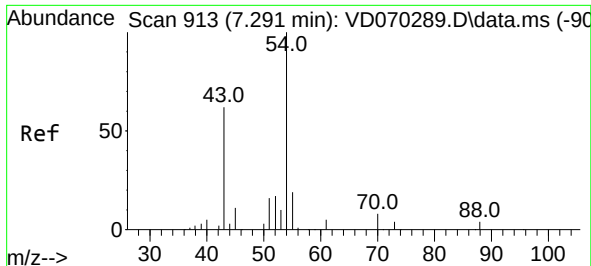
Ion Ratio Lower Upper

75 100

110 8.7 17.9 53.7#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 2.055 ug/l

RT: 7.226 min Scan# 902

Delta R.T. -0.065 min

Lab File: VD070428.D

Acq: 22 Sep 2021 15:54

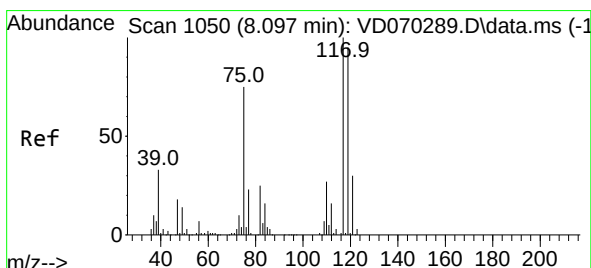
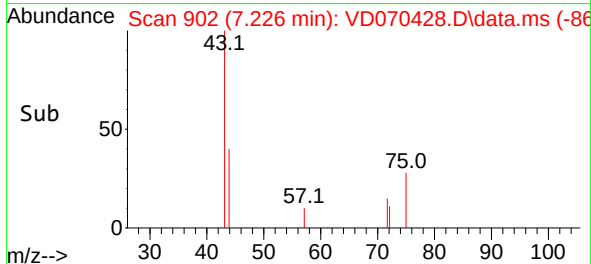
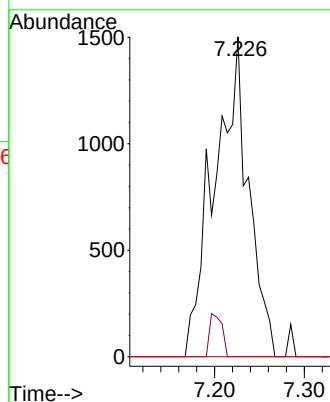
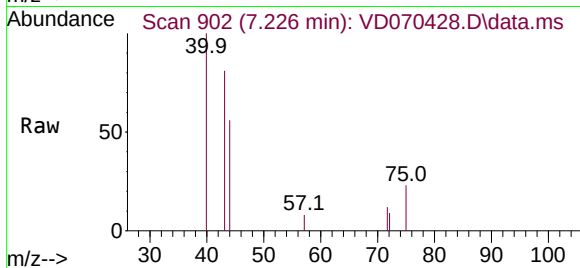
Instrument :

MSVOA\_D

ClientSampleId :

SB-4-(5.0-6.0)

|             |       |       |
|-------------|-------|-------|
| Tgt Ion: 43 | Resp: | 3945  |
| Ion Ratio   | Lower | Upper |
| 43          | 100   |       |
| 61          | 0.0   | 13.0  |
| 70          | 0.0   | 9.8   |



#38

Carbon Tetrachloride

Concen: 5.221 ug/l

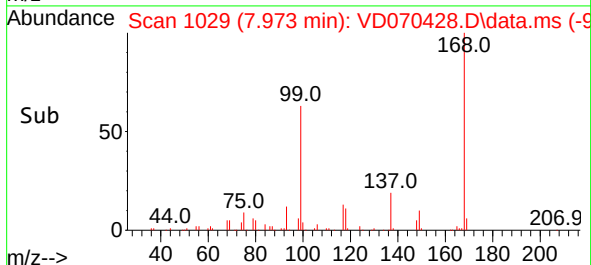
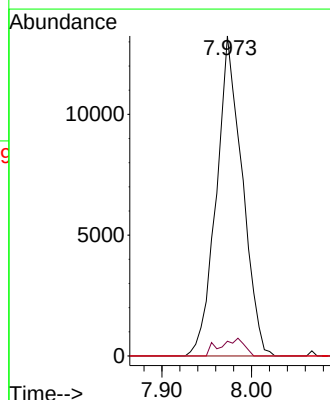
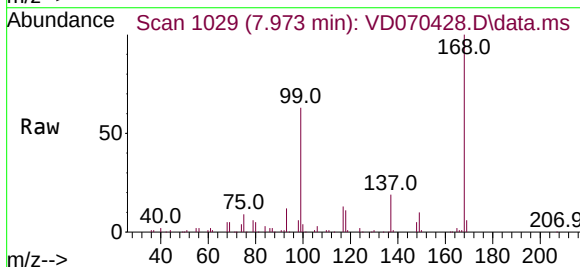
RT: 7.973 min Scan# 1029

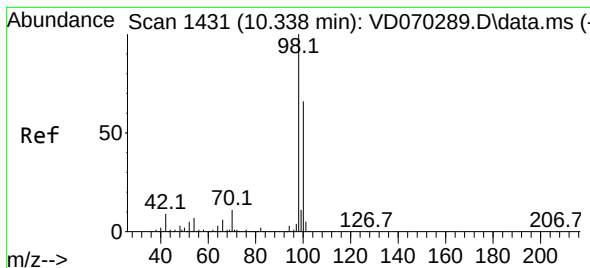
Delta R.T. -0.124 min

Lab File: VD070428.D

Acq: 22 Sep 2021 15:54

|              |       |       |
|--------------|-------|-------|
| Tgt Ion: 117 | Resp: | 26502 |
| Ion Ratio    | Lower | Upper |
| 117          | 100   |       |
| 119          | 4.6   | 76.1  |
| 121          | 0.0   | 23.8  |

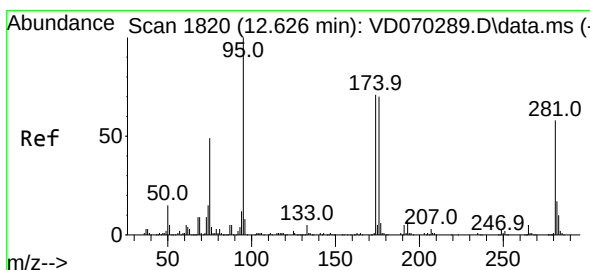
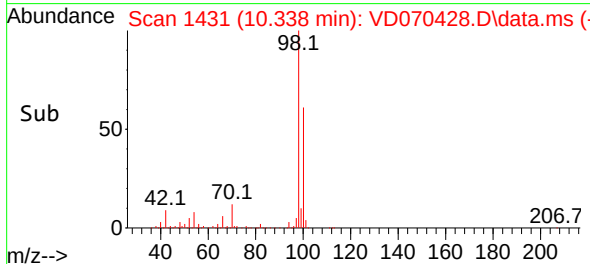
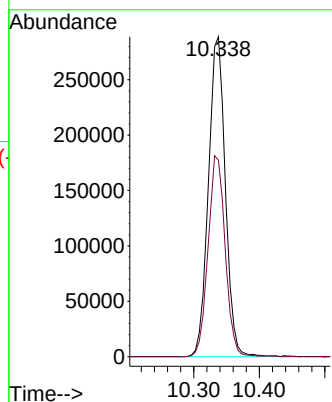
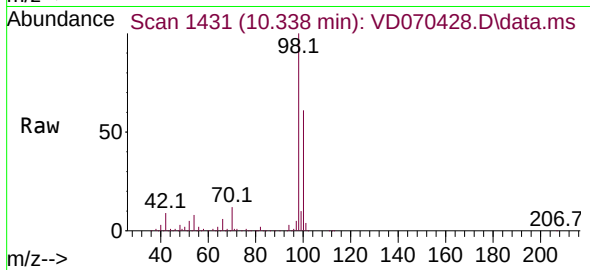




#50  
Toluene-d8  
Concen: 41.784 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

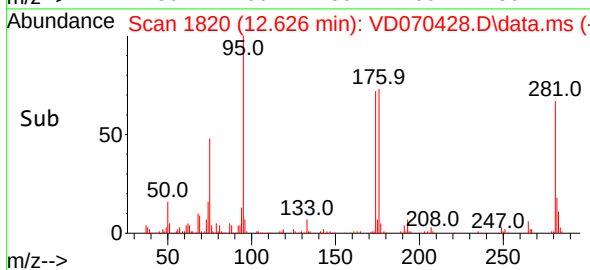
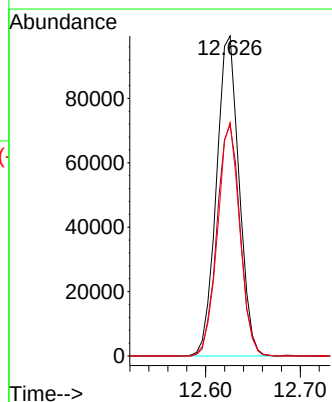
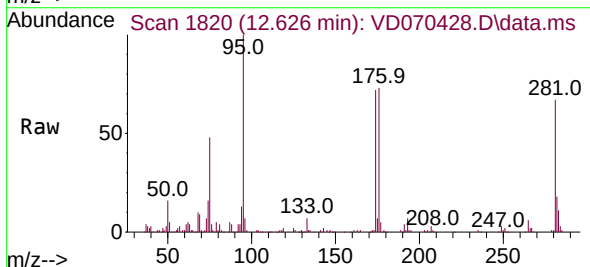
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

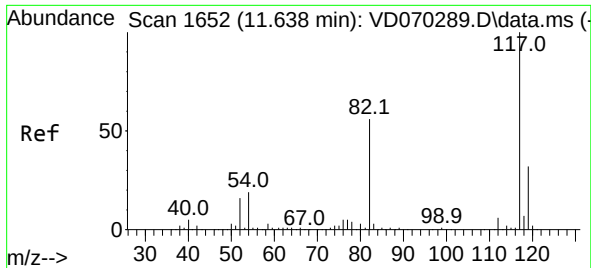
Tgt Ion: 98 Resp: 518577  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 38.078 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 95 Resp: 165161  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 140.6  
176 71.3 0.0 137.4

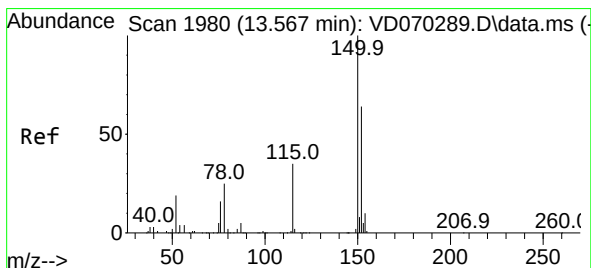
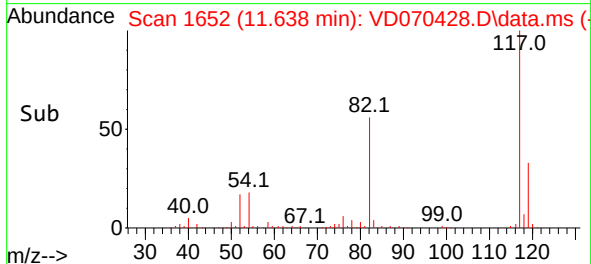
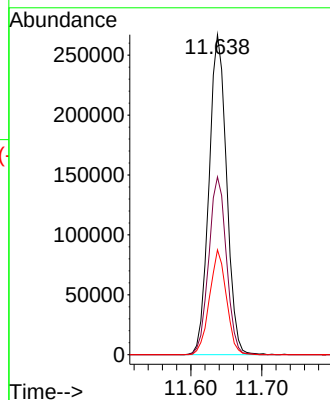
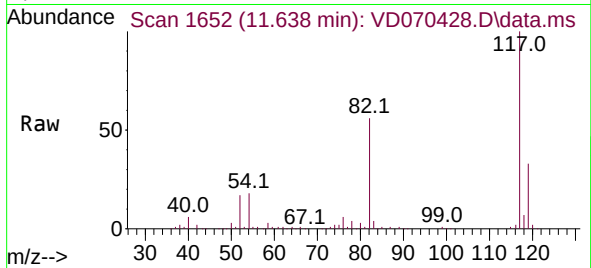




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

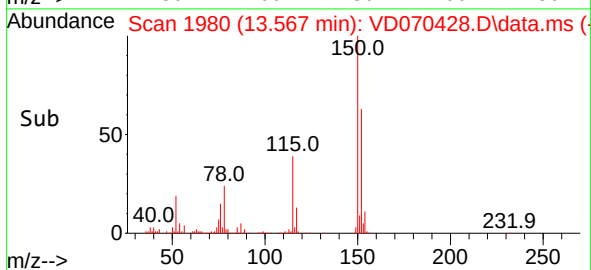
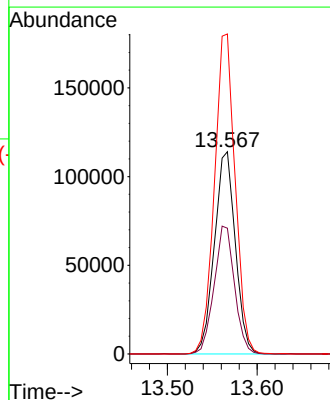
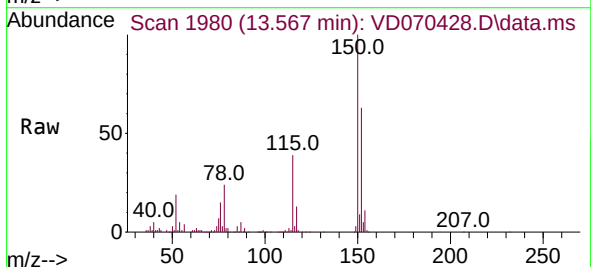
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

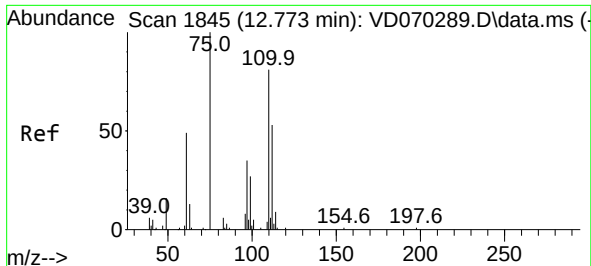
Tgt Ion:117 Resp: 459633  
Ion Ratio Lower Upper  
117 100  
82 55.6 45.0 67.4  
119 32.8 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion:152 Resp: 184725  
Ion Ratio Lower Upper  
152 100  
115 61.8 32.1 96.3  
150 156.2 0.0 350.6

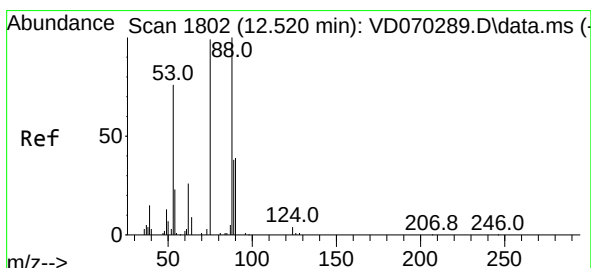
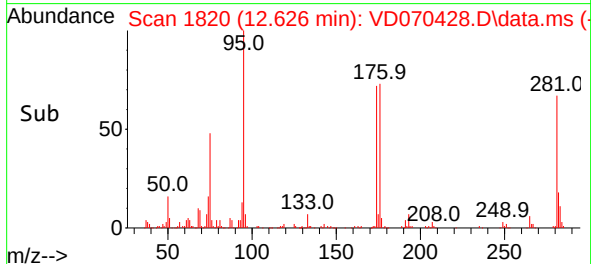
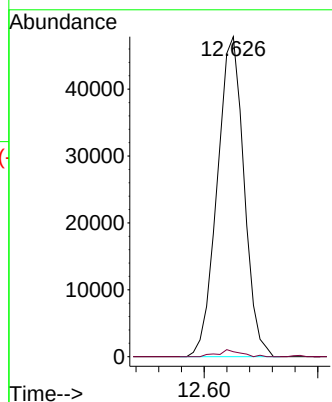
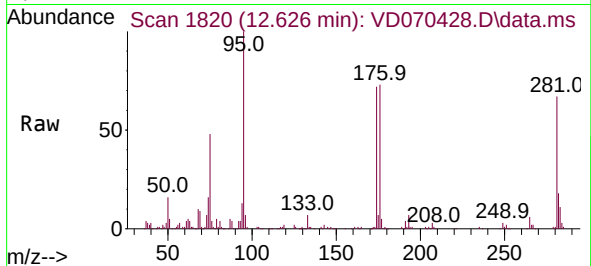




#76  
1,2,3-Trichloropropane  
Concen: 41.957 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(5.0-6.0)

Tgt Ion: 75 Resp: 78397  
Ion Ratio Lower Upper  
75 100  
77 1.8 174.9 524.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 105.127 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD070428.D  
Acq: 22 Sep 2021 15:54

Tgt Ion: 75 Resp: 78397  
Ion Ratio Lower Upper  
75 100  
53 0.3 64.2 96.2#  
89 1.0 35.6 53.4#

