

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102721\  
 Data File : VD070882.D  
 Acq On : 28 Oct 2021 01:12  
 Operator : VA/SY  
 Sample : M4375-02  
 Misc : 5.06G/5.00ml/MSVOA\_D/soil  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Oct 28 05:05:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 05:34:47 2021  
 Response via : Initial Calibration

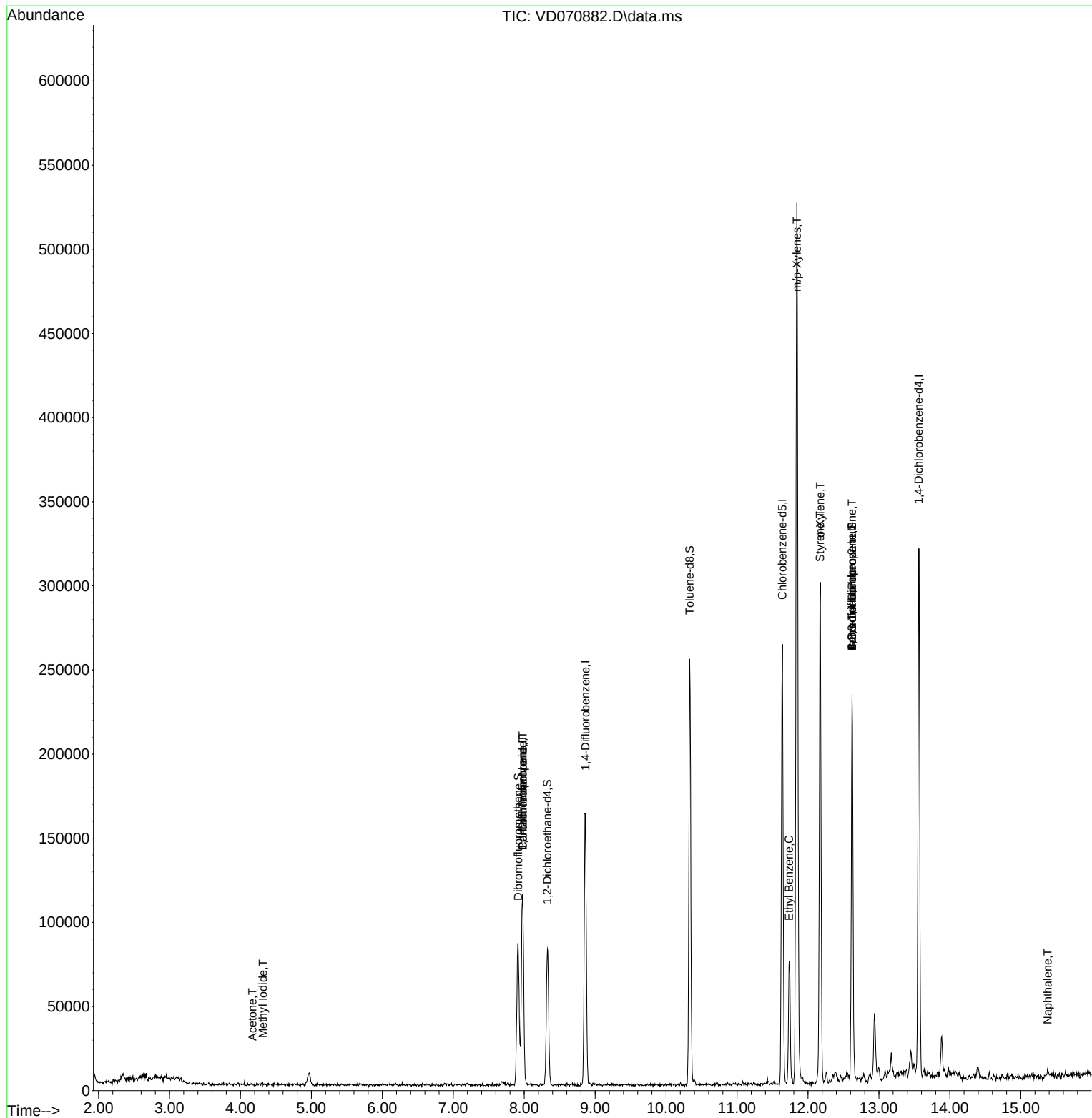
| Compound                      | R.T.           | QIon | Response | Conc      | Units    | Dev(Min)  |
|-------------------------------|----------------|------|----------|-----------|----------|-----------|
| -----                         |                |      |          |           |          |           |
| Internal Standards            |                |      |          |           |          |           |
| 1) Pentafluorobenzene         | 7.979          | 168  | 93987    | 50.000    | ug/l     | # 0.00    |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 147634   | 50.000    | ug/l     | 0.00      |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 166380   | 50.000    | ug/l     | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 91783    | 50.000    | ug/l     | 0.00      |
| System Monitoring Compounds   |                |      |          |           |          |           |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 63915    | 67.615    | ug/l     | 0.00      |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery | =         | 135.240% |           |
| 35) Dibromofluoromethane      | 7.914          | 113  | 62026    | 63.719    | ug/l     | 0.00      |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery | =         | 127.440% |           |
| 50) Toluene-d8                | 10.332         | 98   | 186937   | 51.045    | ug/l     | 0.00      |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery | =         | 102.100% |           |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 79502    | 65.795    | ug/l     | 0.00      |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery | =         | 131.600% |           |
| Target Compounds              |                |      |          |           |          |           |
| 5) Bromomethane               | 2.785          | 94   | 1463     | Below Cal |          | Qvalue 85 |
| 10) Methyl Iodide             | 4.315          | 142  | 764      | 4.232     | ug/l #   | 40        |
| 16) Acetone                   | 4.168          | 43   | 473      | 2.151     | ug/l #   | 40        |
| 20) Methylene Chloride        | 4.956          | 84   | 5952     | Below Cal | #        | 74        |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 6963     | 4.508     | ug/l #   | 50        |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 9450     | 6.084     | ug/l #   | 22        |
| 67) Ethyl Benzene             | 11.732         | 91   | 54188    | 9.116     | ug/l     | 93        |
| 68) m/p-Xylenes               | 11.844         | 106  | 172886   | 74.697    | ug/l     | 96        |
| 69) o-Xylene                  | 12.173         | 106  | 87312    | 41.652    | ug/l     | 93        |
| 70) Styrene                   | 12.167         | 104  | 6555     | 1.806     | ug/l #   | 1         |
| 71) Bromoform                 | 12.620         | 173  | 748      | 1.118     | ug/l #   | 29        |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 34385    | 38.057    | ug/l #   | 1         |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 34385    | 99.885    | ug/l #   | 19        |
| 95) Naphthalene               | 15.379         | 128  | 3430     | 5.216     | ug/l     | 98        |
| -----                         |                |      |          |           |          |           |

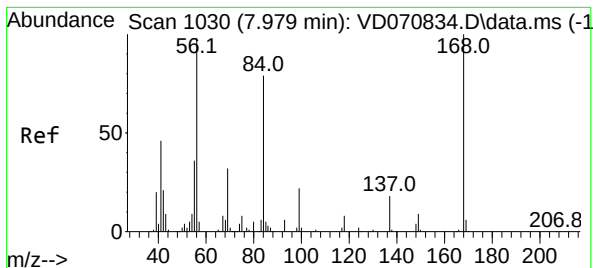
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102721\  
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Sample : M4375-02  
Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Oct 28 05:05:49 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 27 05:34:47 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: VD070882.D

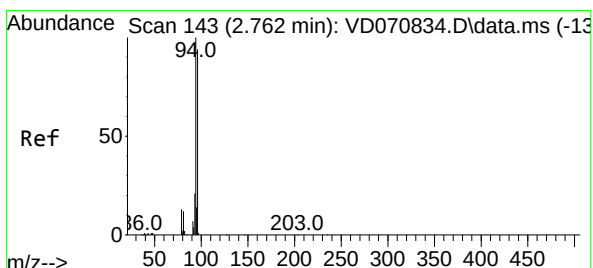
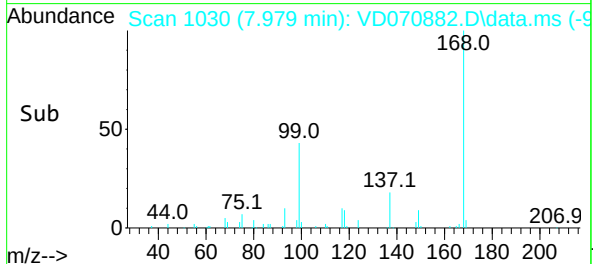
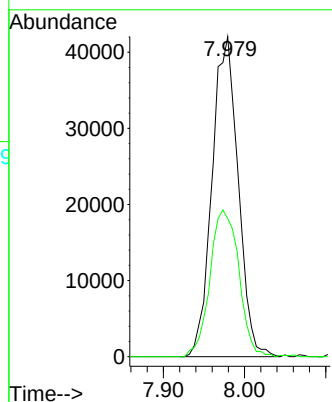
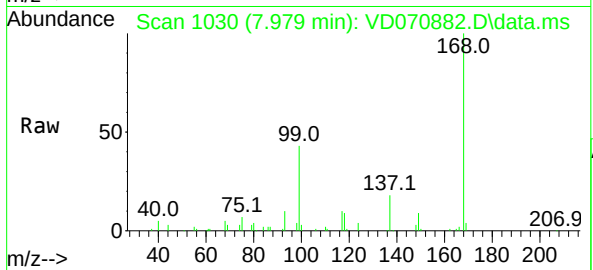
Acq: 28 Oct 2021 01:12

Tgt Ion:168 Resp: 93987

Ion Ratio Lower Upper

168 100

99 43.2 46.6 69.8#



#5

Bromomethane

Concen: Below Cal

RT: 2.785 min Scan# 147

Delta R.T. 0.023 min

Lab File: VD070882.D

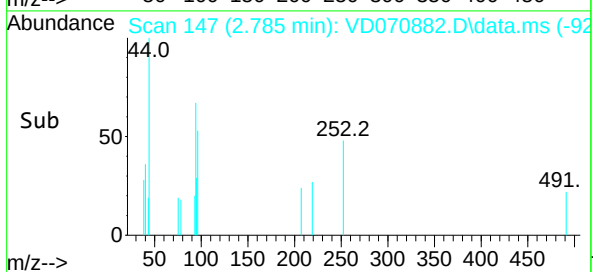
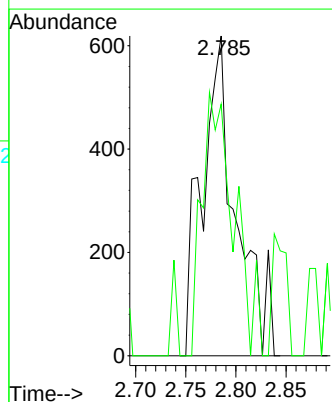
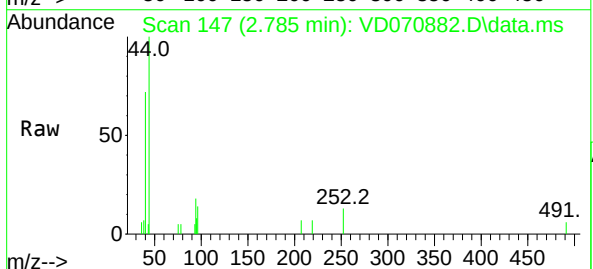
Acq: 28 Oct 2021 01:12

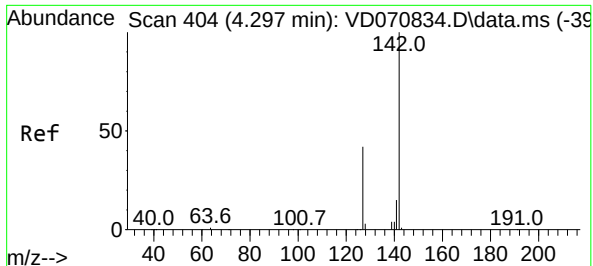
Tgt Ion: 94 Resp: 1463

Ion Ratio Lower Upper

94 100

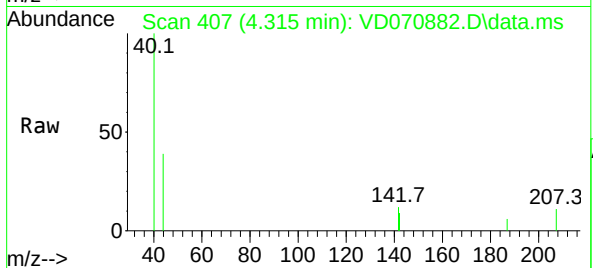
96 78.7 74.8 112.2



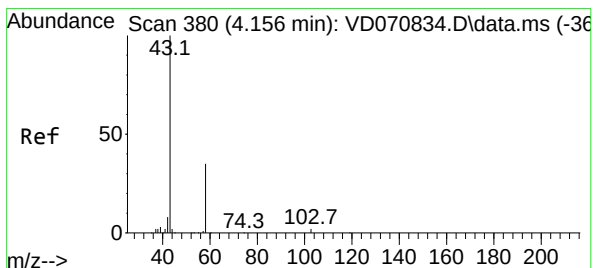
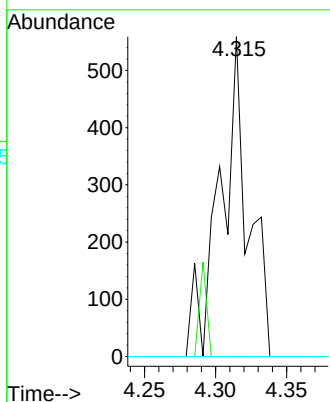
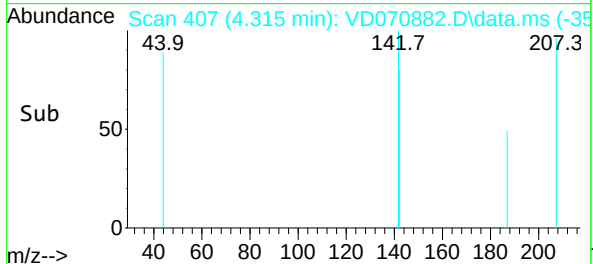


#10  
Methyl Iodide  
Concen: 4.232 ug/l  
RT: 4.315 min Scan# 407  
Delta R.T. 0.018 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

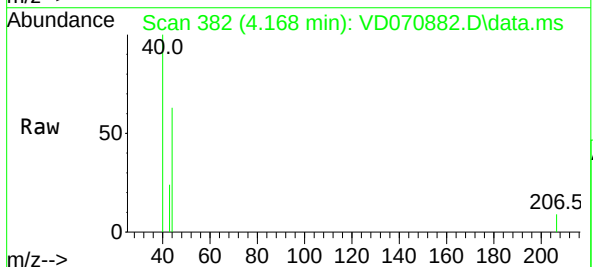
Instrument :  
MSVOA\_D  
ClientSampled :



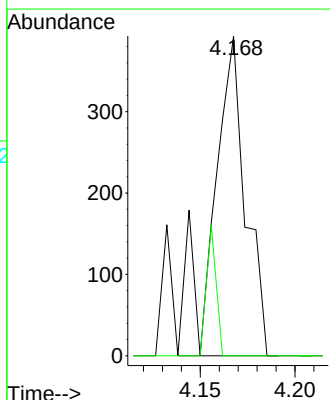
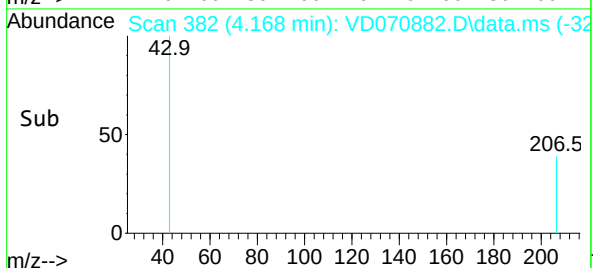
Tgt Ion:142 Resp: 764  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

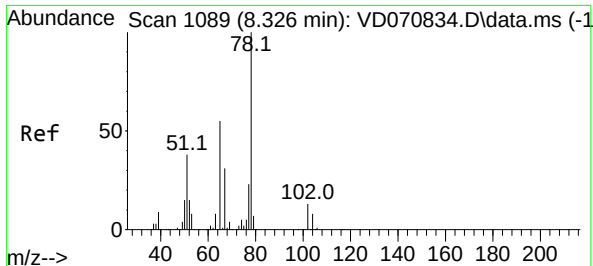


#16  
Acetone  
Concen: 2.151 ug/l  
RT: 4.168 min Scan# 382  
Delta R.T. 0.012 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12



Tgt Ion: 43 Resp: 473  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#



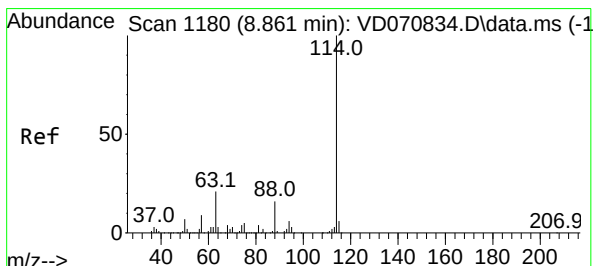
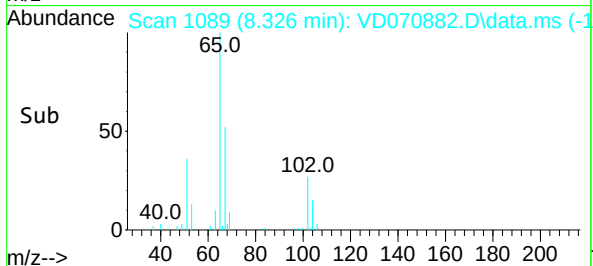
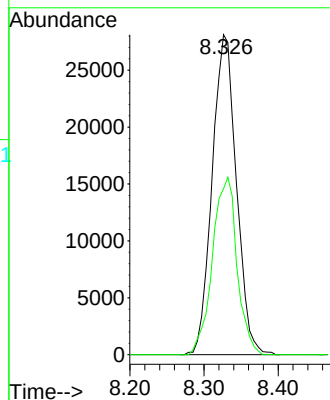
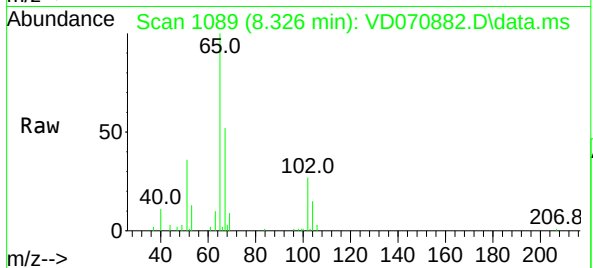


#33

1,2-Dichloroethane-d4  
Concen: 67.615 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

Instrument :  
MSVOA\_D  
ClientSampled :

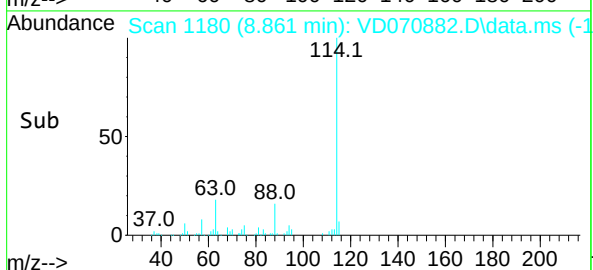
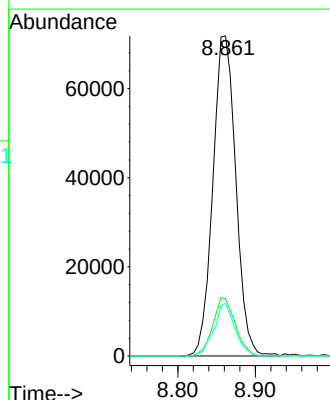
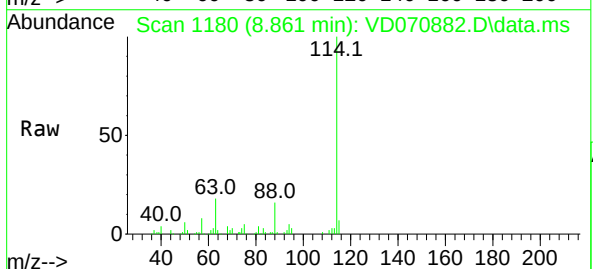
Tgt Ion: 65 Resp: 63915  
Ion Ratio Lower Upper  
65 100  
67 56.0 0.0 112.2

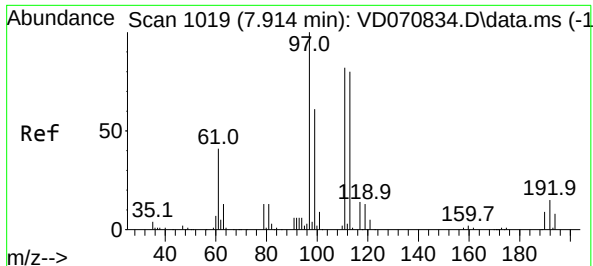


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

Tgt Ion: 114 Resp: 147634  
Ion Ratio Lower Upper  
114 100  
63 17.9 0.0 41.8  
88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 63.719 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD070882.D

Acq: 28 Oct 2021 01:12

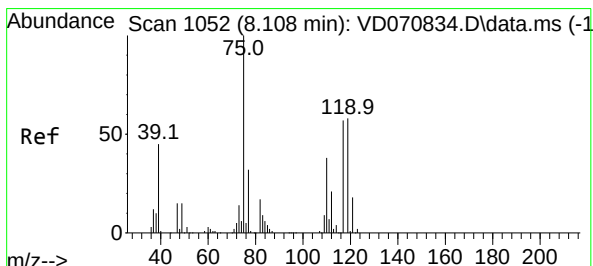
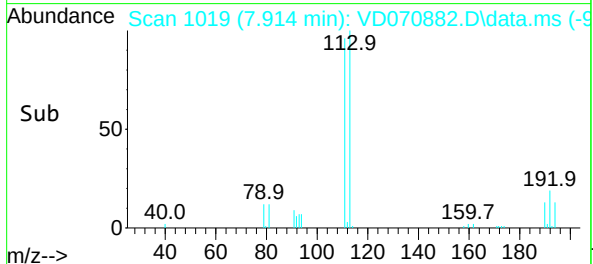
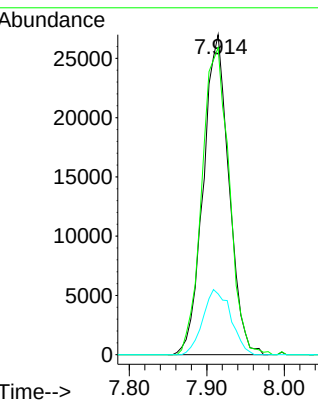
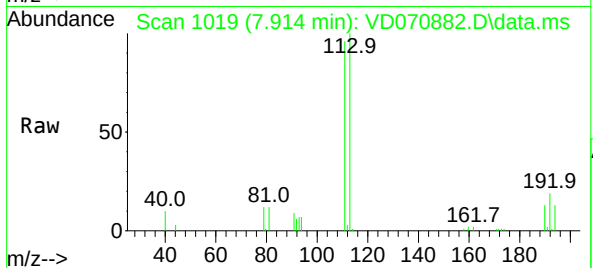
Tgt Ion:113 Resp: 62026

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

192 22.1 15.2 22.8



#36

1,1-Dichloropropene

Concen: 4.508 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.129 min

Lab File: VD070882.D

Acq: 28 Oct 2021 01:12

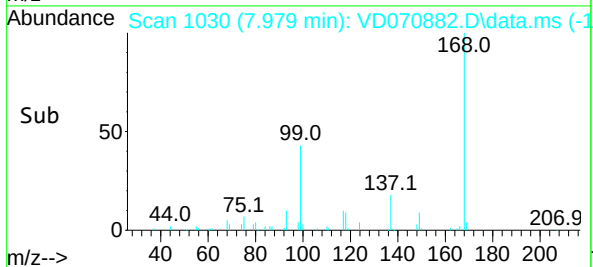
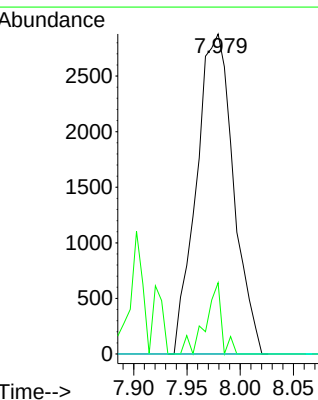
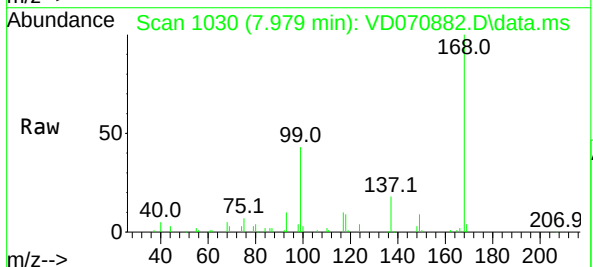
Tgt Ion: 75 Resp: 6963

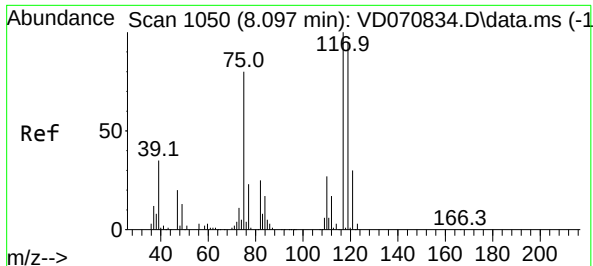
Ion Ratio Lower Upper

75 100

110 9.7 17.8 53.4#

77 0.0 24.8 37.2#

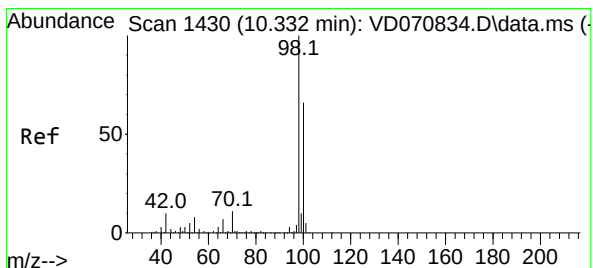
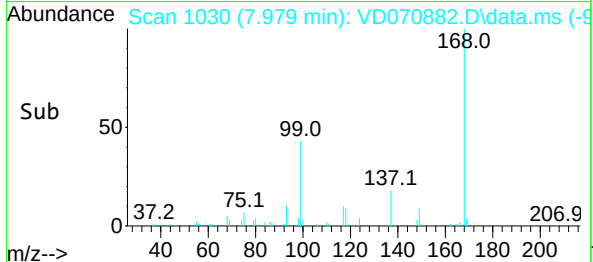
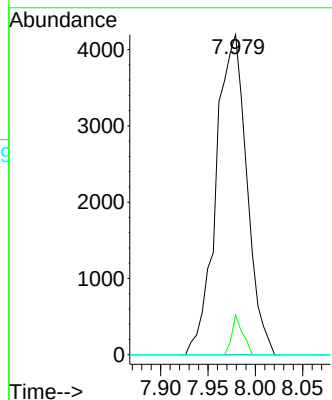
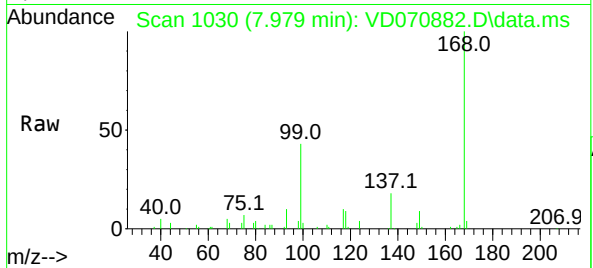




#38  
Carbon Tetrachloride  
Concen: 6.084 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.117 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

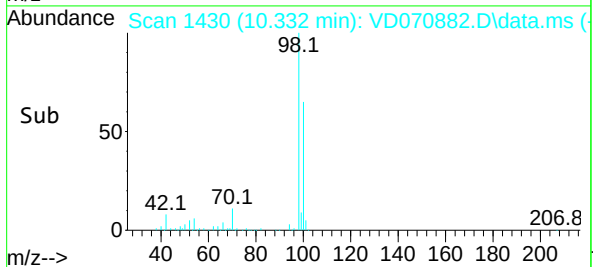
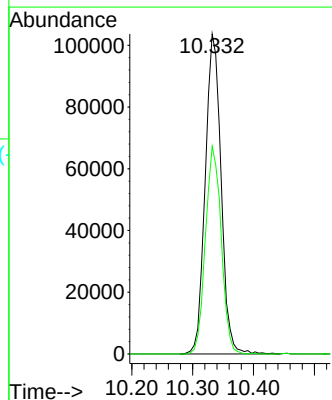
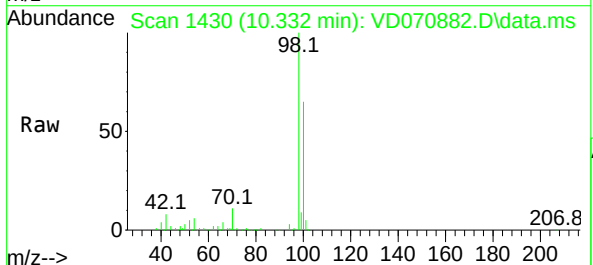
Instrument :  
MSVOA\_D  
ClientSampleId :

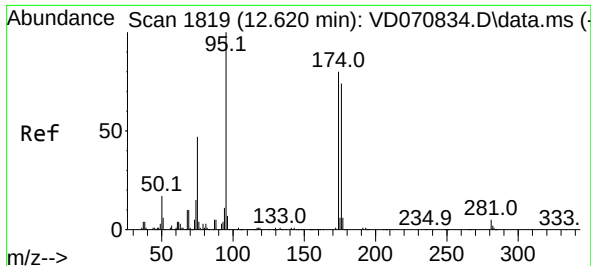
Tgt Ion:117 Resp: 9450  
Ion Ratio Lower Upper  
117 100  
119 12.4 75.8 113.6#  
121 0.0 23.6 35.4#



#50  
Toluene-d8  
Concen: 51.045 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

Tgt Ion: 98 Resp: 186937  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.8 77.6

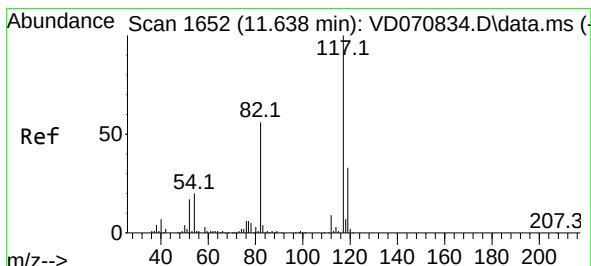
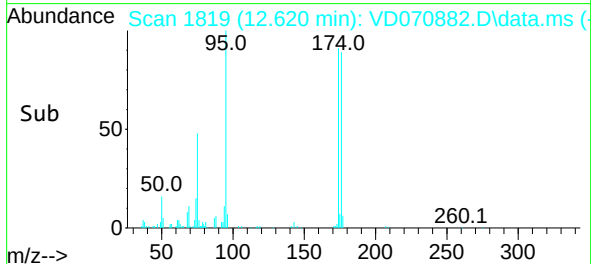
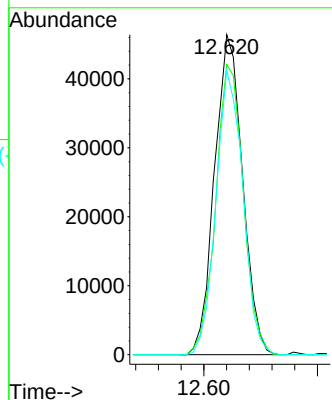
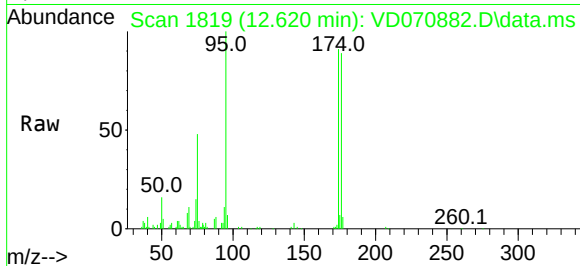




#62  
4-Bromofluorobenzene  
Concen: 65.795 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

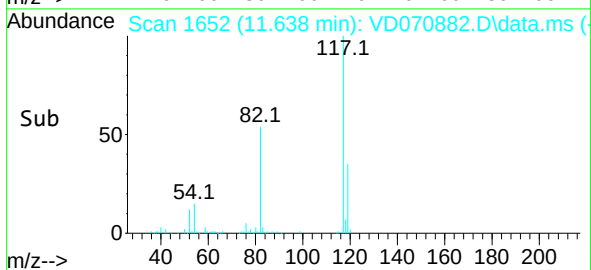
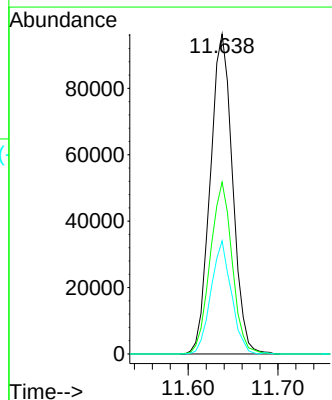
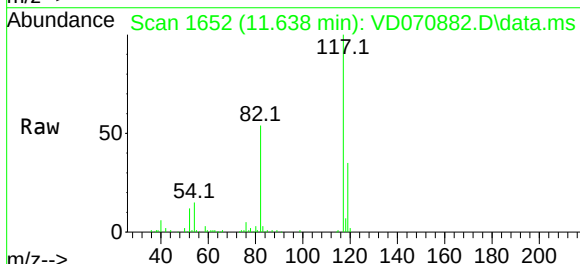
Instrument :  
MSVOA\_D  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 79502 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 89.3  | 0.0   | 159.4 |
| 176      | 85.5  | 0.0   | 154.0 |

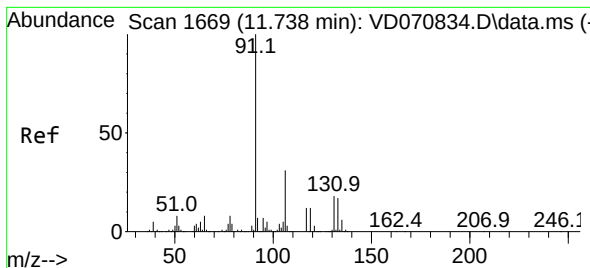


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 166380 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.7  | 44.7  | 67.1   |
| 119      | 35.4  | 26.2  | 39.4   |



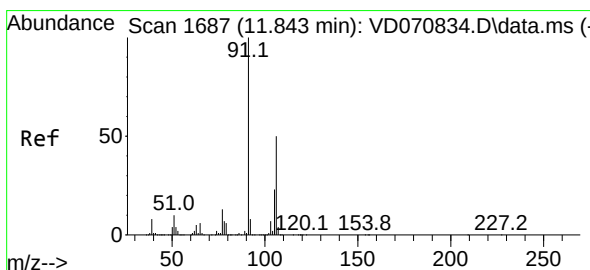
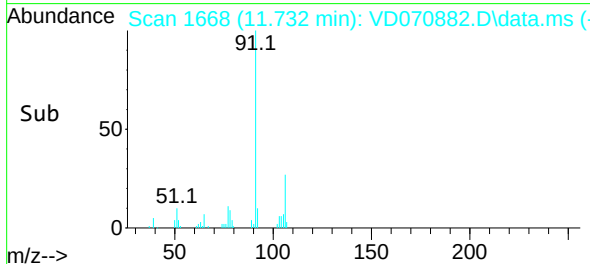
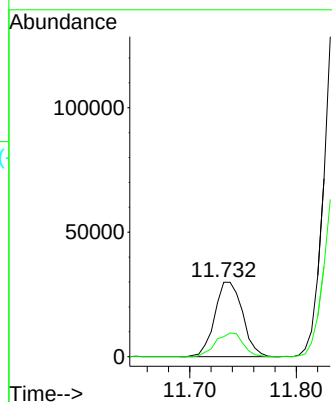
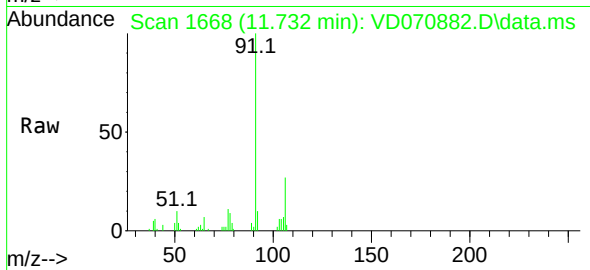




#67  
Ethyl Benzene  
Concen: 9.116 ug/l  
RT: 11.732 min Scan# 1668  
Delta R.T. -0.006 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

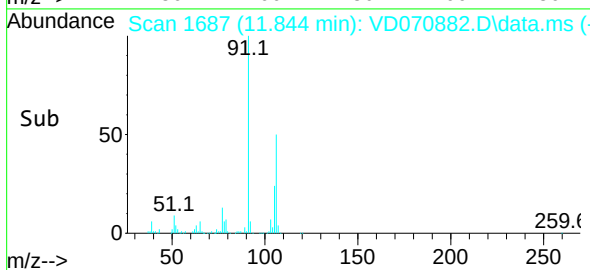
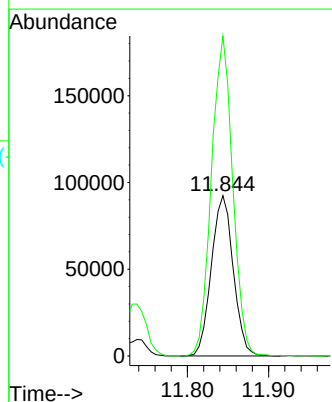
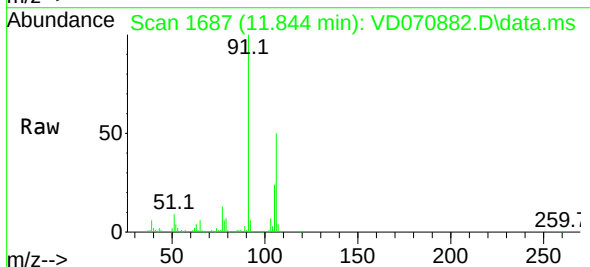
Instrument :  
MSVOA\_D  
ClientSampleId :

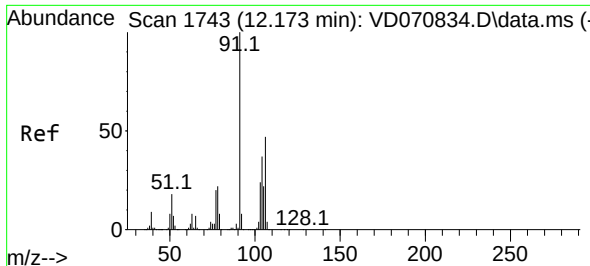
Tgt Ion: 91 Resp: 54188  
Ion Ratio Lower Upper  
91 100  
106 27.0 24.6 36.8



#68  
m/p-Xylenes  
Concen: 74.697 ug/l  
RT: 11.844 min Scan# 1687  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

Tgt Ion:106 Resp: 172886  
Ion Ratio Lower Upper  
106 100  
91 194.2 160.1 240.1

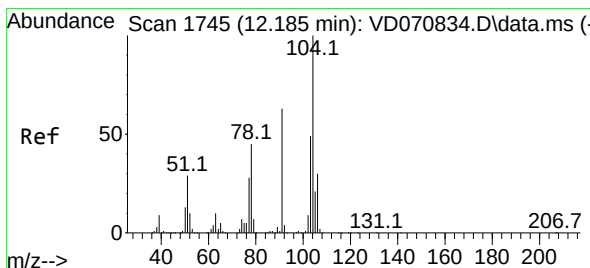
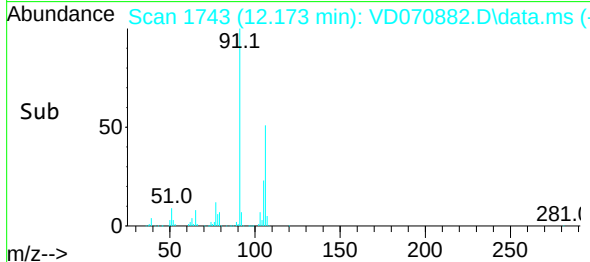
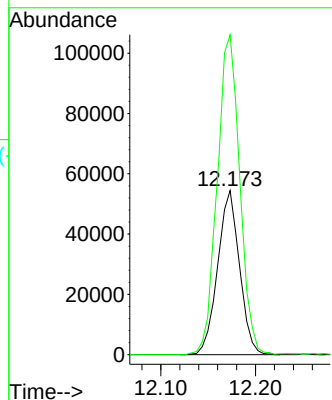
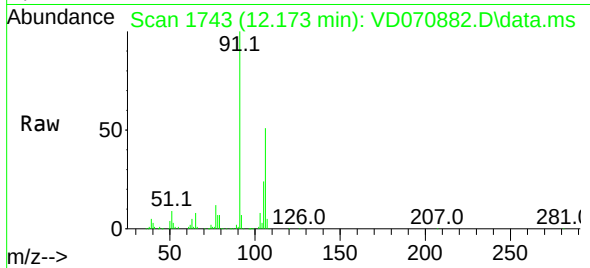




#69  
o-Xylene  
Concen: 41.652 ug/l  
RT: 12.173 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

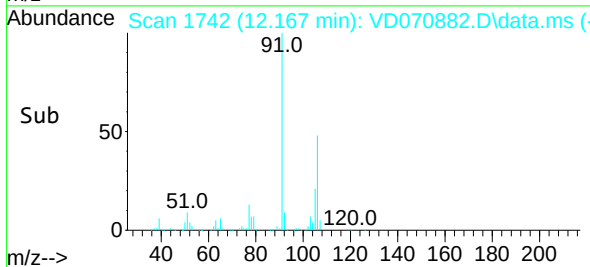
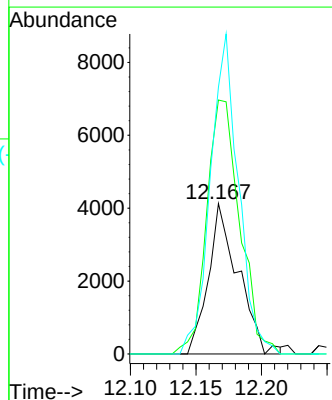
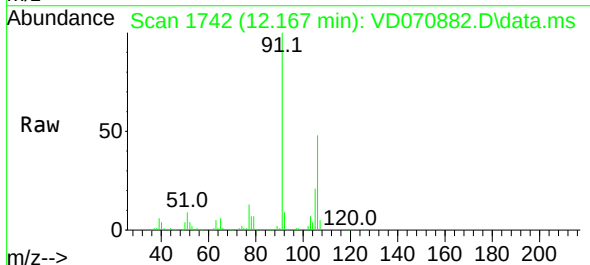
Instrument :  
MSVOA\_D  
ClientSampled :

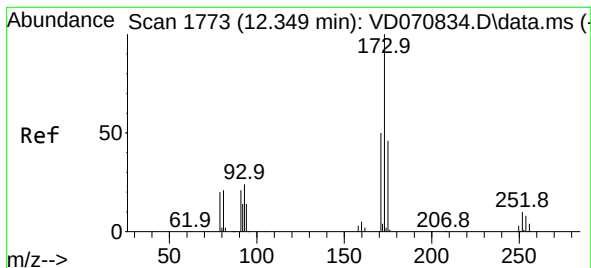
Tgt Ion:106 Resp: 87312  
Ion Ratio Lower Upper  
106 100  
91 201.5 106.3 319.0



#70  
Styrene  
Concen: 1.806 ug/l  
RT: 12.167 min Scan# 1742  
Delta R.T. -0.017 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

Tgt Ion:104 Resp: 6555  
Ion Ratio Lower Upper  
104 100  
78 186.5 39.4 59.0#  
103 199.3 43.4 65.0#





#71

Bromoform

Concen: 1.118 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. 0.271 min

Lab File: VD070882.D

Acq: 28 Oct 2021 01:12

Tgt Ion:173 Resp: 748

Ion Ratio Lower Upper

173 100

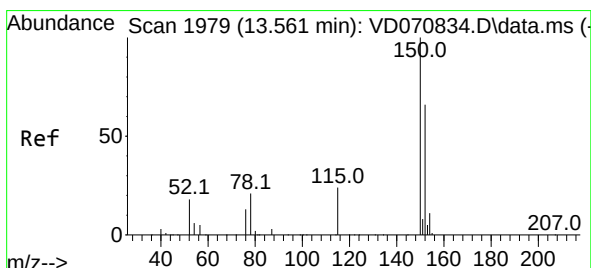
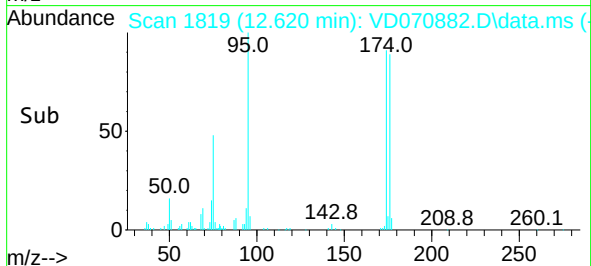
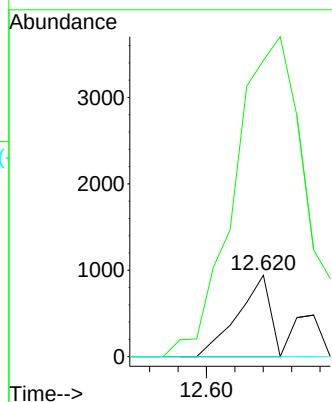
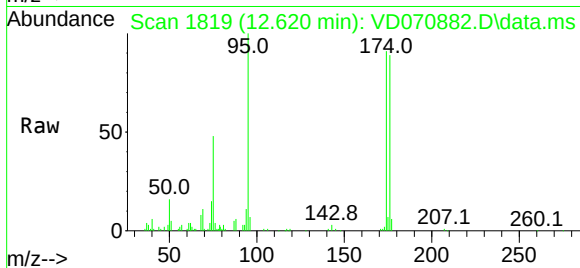
175 0.0 24.1 72.2#

254 0.0 0.1 0.1#

Instrument :

MSVOA\_D

ClientSampleId :



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VD070882.D

Acq: 28 Oct 2021 01:12

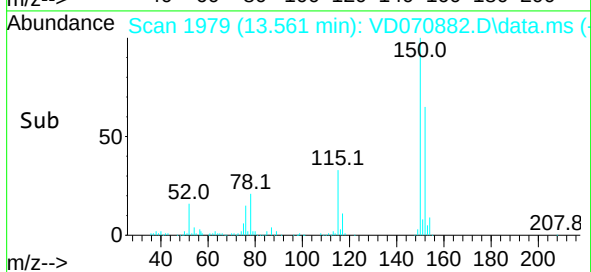
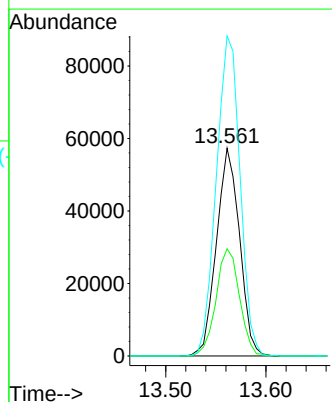
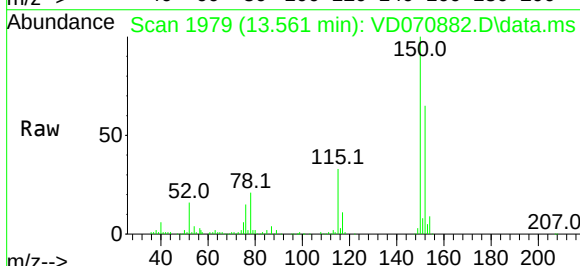
Tgt Ion:152 Resp: 91783

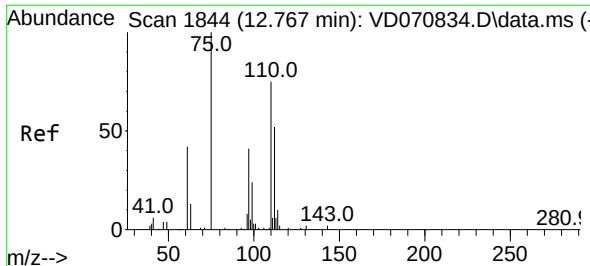
Ion Ratio Lower Upper

152 100

115 52.5 29.8 89.3

150 158.2 0.0 349.2

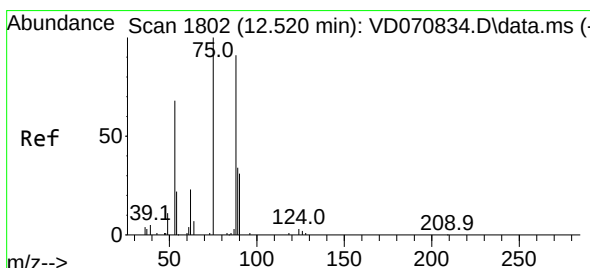
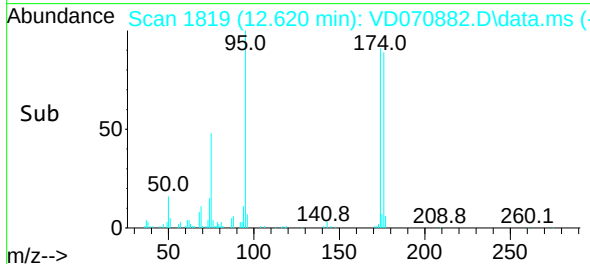
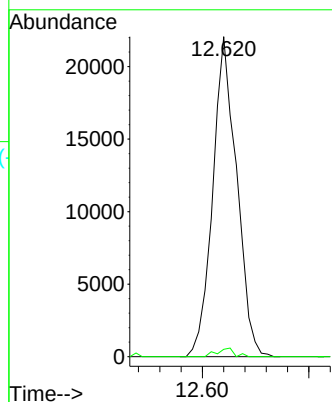
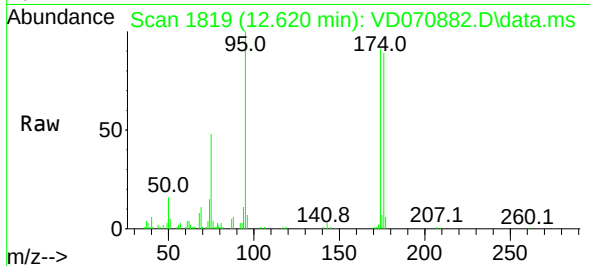




#76  
1,2,3-Trichloropropane  
Concen: 38.057 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

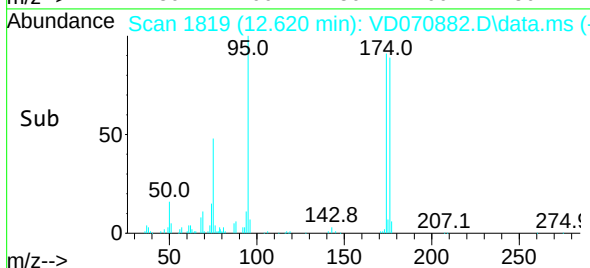
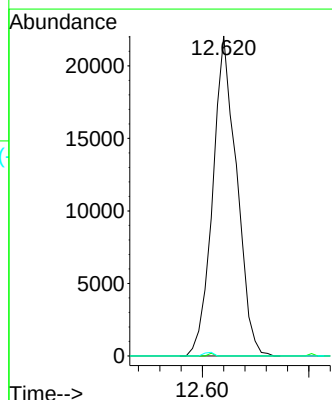
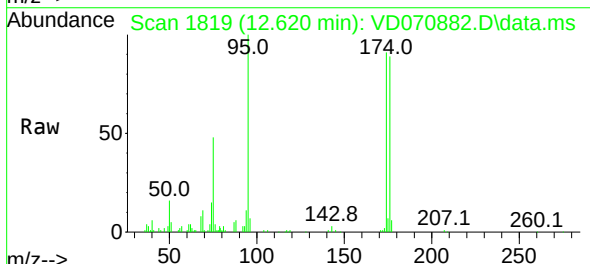
Instrument :  
MSVOA\_D  
ClientSampleId :

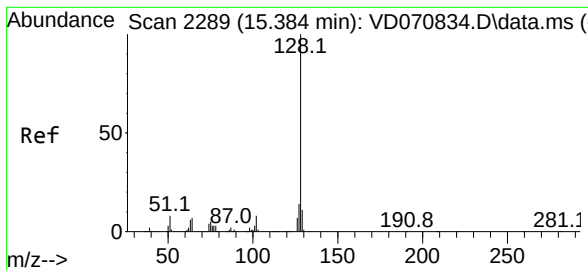
Tgt Ion: 75 Resp: 34385  
Ion Ratio Lower Upper  
75 100  
77 1.9 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.885 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

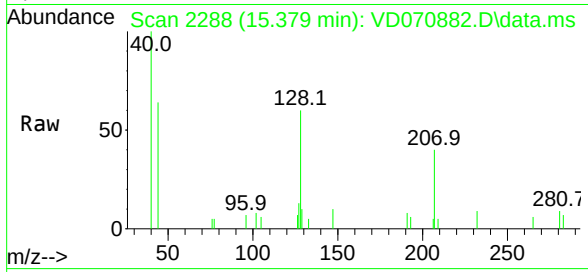
Tgt Ion: 75 Resp: 34385  
Ion Ratio Lower Upper  
75 100  
53 0.2 62.6 94.0#  
89 0.5 34.5 51.7#





#95  
Naphthalene  
Concen: 5.216 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.005 min  
Lab File: VD070882.D  
Acq: 28 Oct 2021 01:12

Instrument :  
MSVOA\_D  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3430  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 14.7  | 10.7  | 16.1  |
| 129      | 11.2  | 8.7   | 13.1  |

