

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110321\  
 Data File : VD070908.D  
 Acq On : 03 Nov 2021 14:08  
 Operator : VA/SY  
 Sample : M4454-03  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 03 22:10:08 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

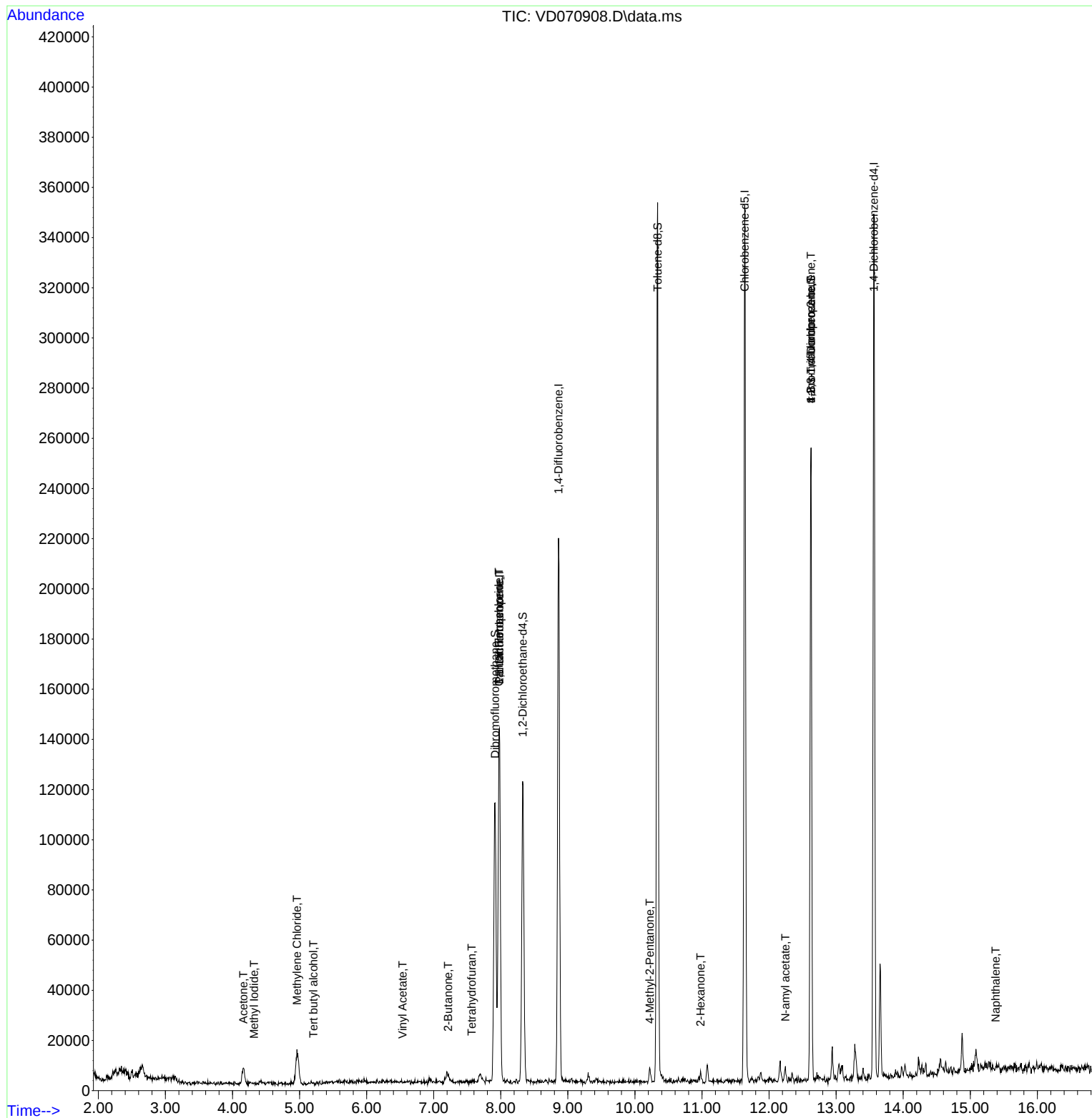
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 110020   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 188959   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 210573   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 102339   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 91975    | 83.120    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 166.240%# |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 83988    | 67.412    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 134.820%  |          |
| 50) Toluene-d8                | 10.338 | 98    | 242078   | 51.646    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 103.300%  |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 88212    | 57.038    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 114.080%  |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 5) Bromomethane               | 2.756  | 94    | 90       | Below Cal | #           | 66       |
| 10) Methyl Iodide             | 4.320  | 142   | 149      | 3.714     | ug/l #      | 40       |
| 11) Tert butyl alcohol        | 5.208  | 59    | 356      | 6.054     | ug/l #      | 71       |
| 16) Acetone                   | 4.161  | 43    | 10654    | 41.385    | ug/l #      | 81       |
| 20) Methylene Chloride        | 4.961  | 84    | 10837    | 2.243     | ug/l #      | 79       |
| 23) Vinyl Acetate             | 6.538  | 43    | 56       | 14.444    | ug/l #      | 72       |
| 25) 2-Butanone                | 7.214  | 43    | 4388     | 13.849    | ug/l #      | 64       |
| 29) Tetrahydrofuran           | 7.567  | 42    | 444      | 2.319     | ug/l #      | 34       |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 8756     | 4.429     | ug/l #      | 45       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 11768    | 5.919     | ug/l #      | 20       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43    | 3253     | 4.540     | ug/l        | 94       |
| 59) 2-Hexanone                | 10.979 | 43    | 1914     | 3.742     | ug/l        | 89       |
| 74) N-amyl acetate            | 12.243 | 43    | 3447     | 2.296     | ug/l #      | 46       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 41176    | 40.872    | ug/l #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 41176    | 107.275   | ug/l #      | 18       |
| 95) Naphthalene               | 15.379 | 128   | 1867     | 4.657     | ug/l #      | 69       |
| -----                         |        |       |          |           |             |          |

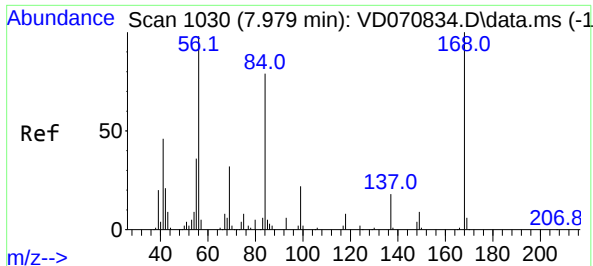
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :

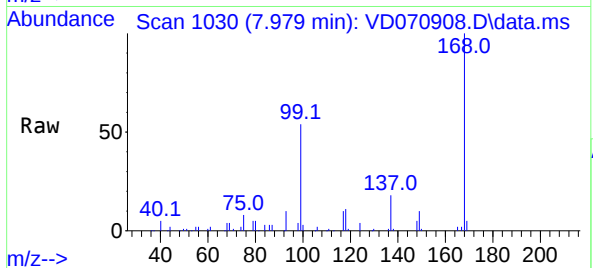
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 27 05:34:47 2021  
Response via : Initial Calibration



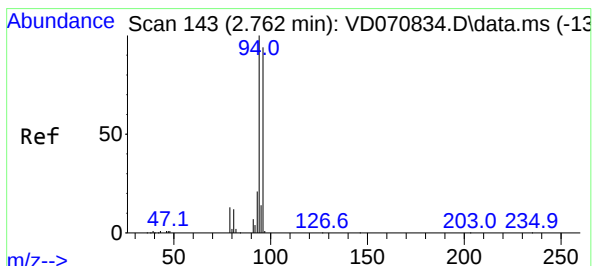
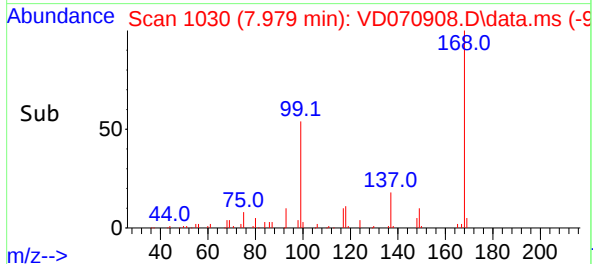
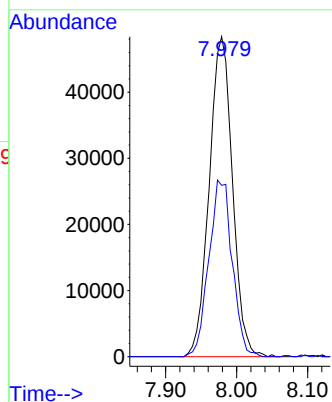


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Instrument :  
MSVOA\_D  
ClientSampleId :

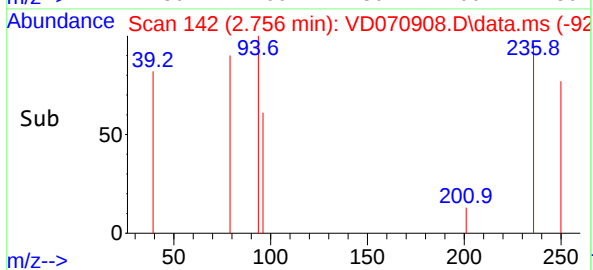
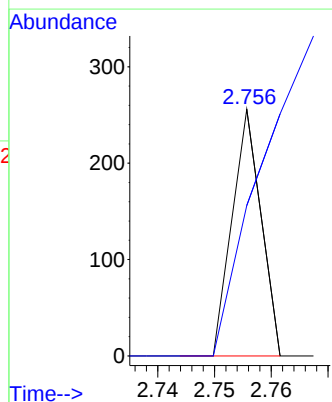
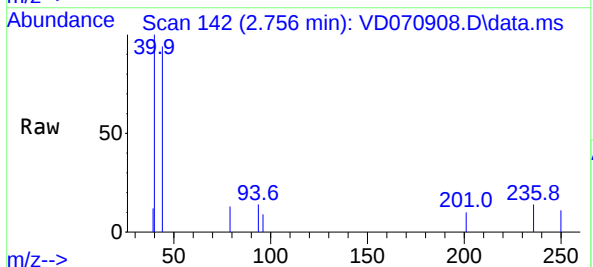


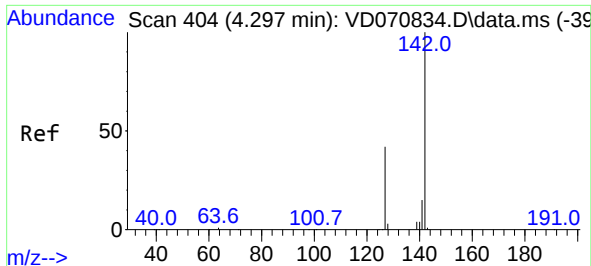
Tgt Ion:168 Resp: 110020  
Ion Ratio Lower Upper  
168 100  
99 53.5 46.6 69.8



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.756 min Scan# 142  
Delta R.T. -0.006 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

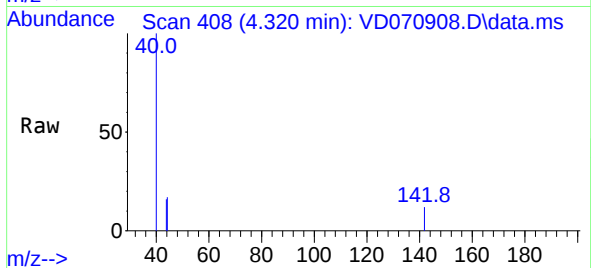
Tgt Ion: 94 Resp: 90  
Ion Ratio Lower Upper  
94 100  
96 60.9 74.8 112.2#



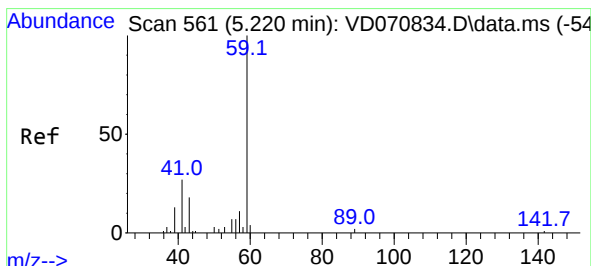
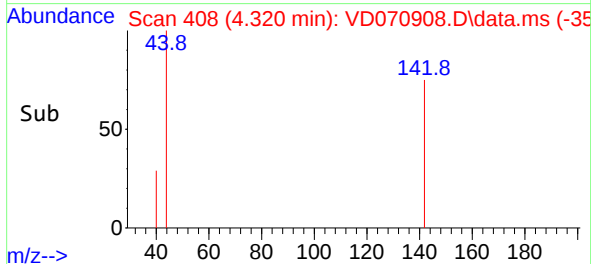
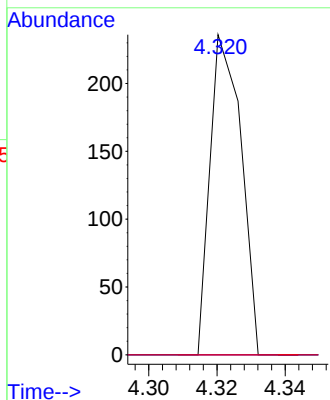


#10  
Methyl Iodide  
Concen: 3.714 ug/l  
RT: 4.320 min Scan# 40  
Delta R.T. 0.023 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Instrument :  
MSVOA\_D  
ClientSampleId :

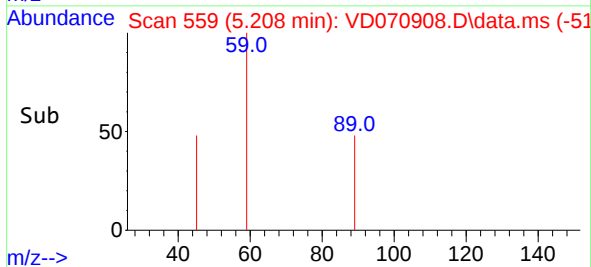
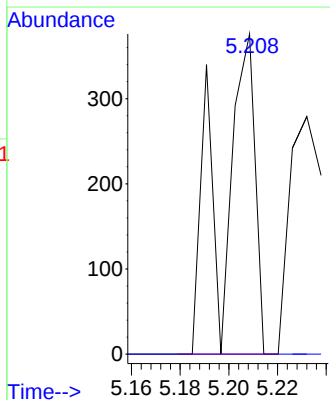
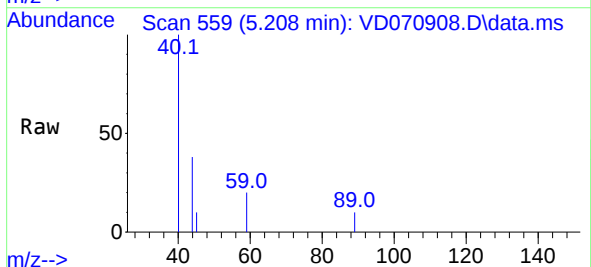


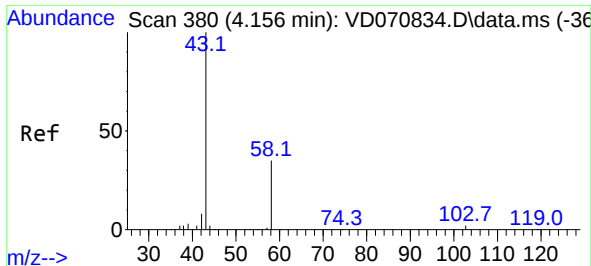
Tgt Ion:142 Resp: 149  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#



#11  
Tert butyl alcohol  
Concen: 6.054 ug/l  
RT: 5.208 min Scan# 559  
Delta R.T. -0.012 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Tgt Ion: 59 Resp: 356  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.4#

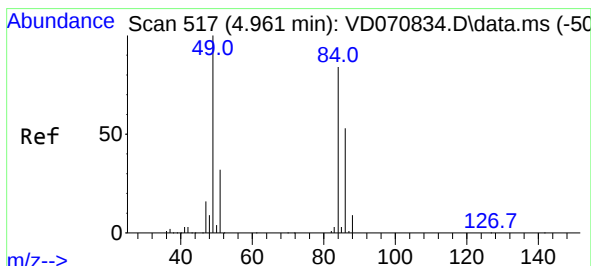
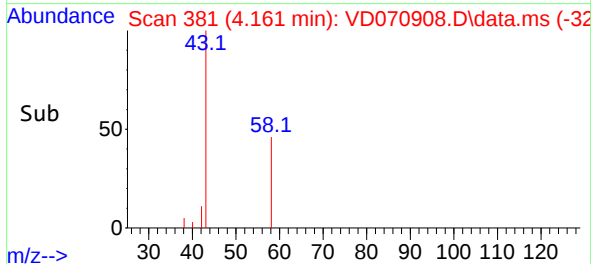
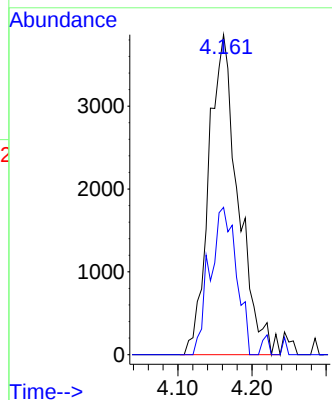
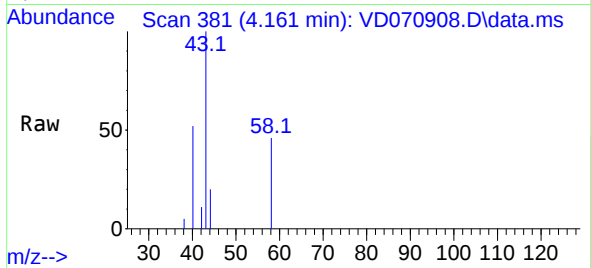




#16  
Acetone  
Concen: 41.385 ug/l  
RT: 4.161 min Scan# 380  
Delta R.T. 0.006 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

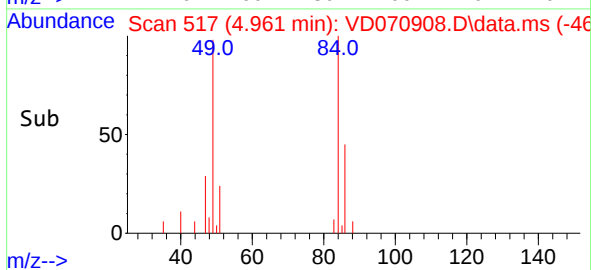
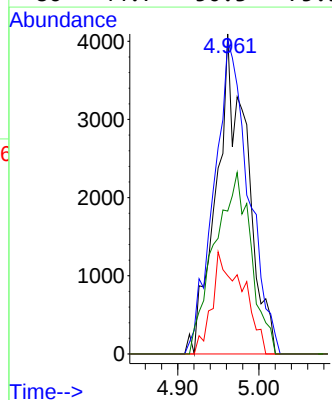
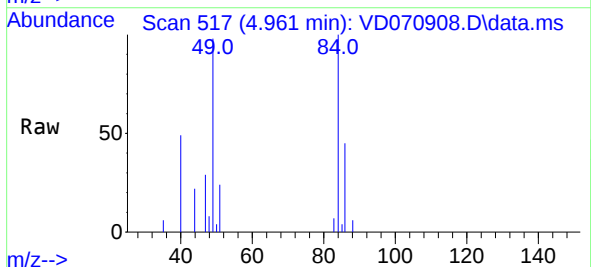
Instrument :  
MSVOA\_D  
ClientSampleId :

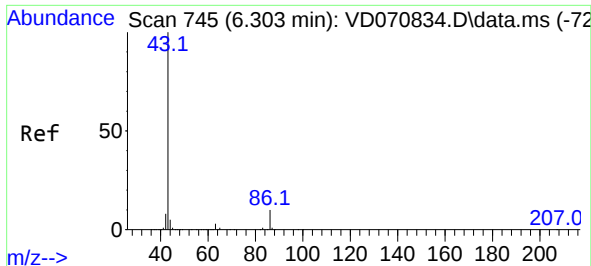
Tgt Ion: 43 Resp: 10654  
Ion Ratio Lower Upper  
43 100  
58 46.1 27.8 41.8#



#20  
Methylene Chloride  
Concen: 2.243 ug/l  
RT: 4.961 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

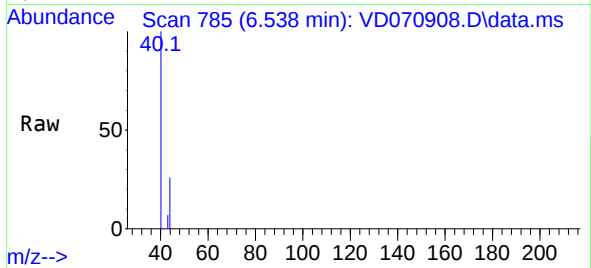
Tgt Ion: 84 Resp: 10837  
Ion Ratio Lower Upper  
84 100  
49 98.0 95.8 143.6  
51 24.5 30.9 46.3#  
86 44.7 50.3 75.5#



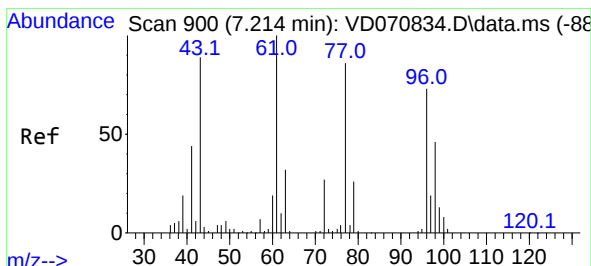
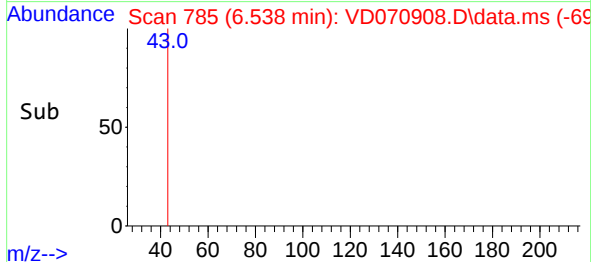
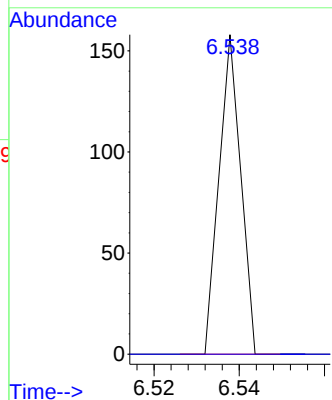


#23  
 Vinyl Acetate  
 Concen: 14.444 ug/l  
 RT: 6.538 min Scan# 745  
 Delta R.T. 0.235 min  
 Lab File: VD070908.D  
 Acq: 03 Nov 2021 14:08

Instrument :  
 MSVOA\_D  
 ClientSampleId :

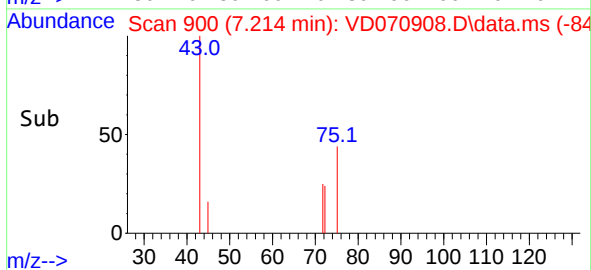
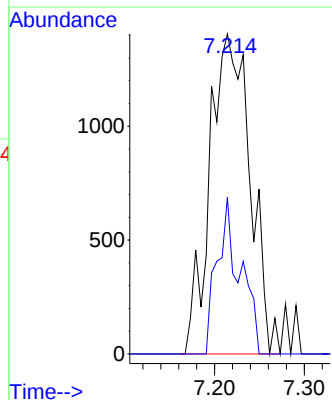
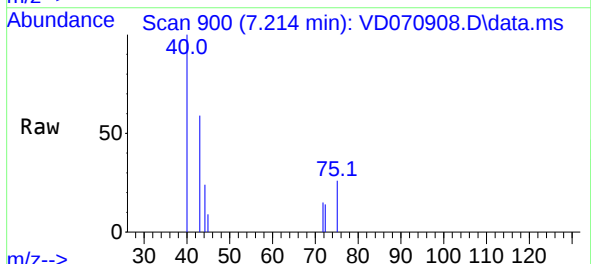


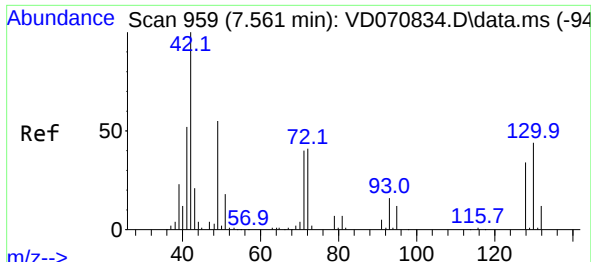
Tgt Ion: 43 Resp: 56  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.2 12.4#



#25  
 2-Butanone  
 Concen: 13.849 ug/l  
 RT: 7.214 min Scan# 900  
 Delta R.T. 0.000 min  
 Lab File: VD070908.D  
 Acq: 03 Nov 2021 14:08

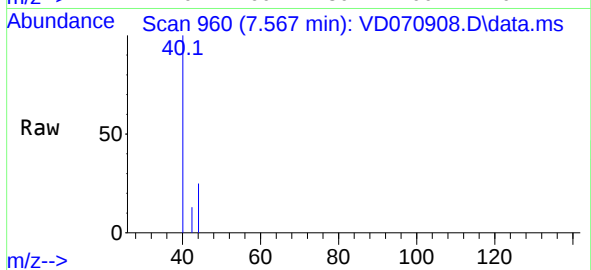
Tgt Ion: 43 Resp: 4388  
 Ion Ratio Lower Upper  
 43 100  
 72 49.0 23.8 35.6#



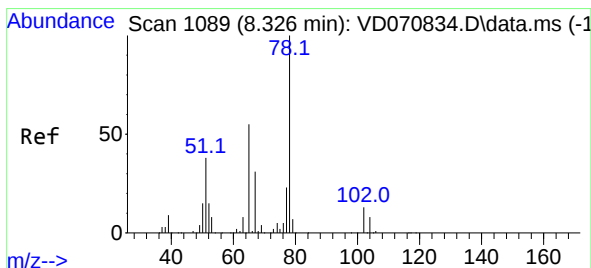
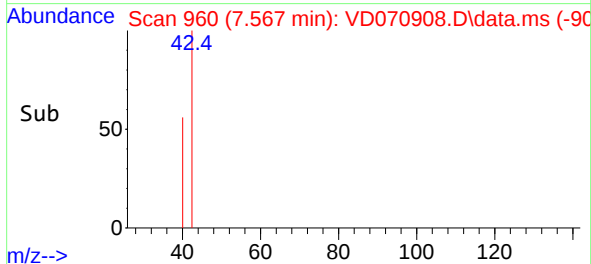
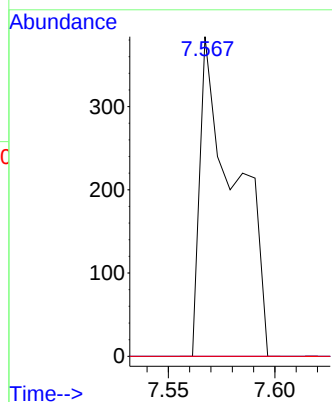


#29  
Tetrahydrofuran  
Concen: 2.319 ug/l  
RT: 7.567 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

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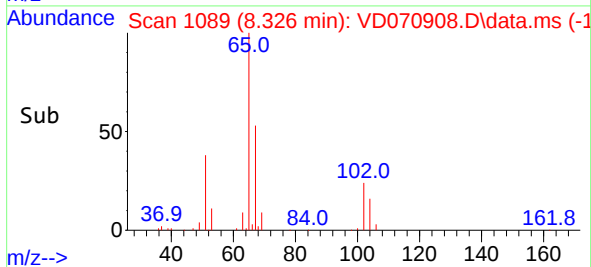
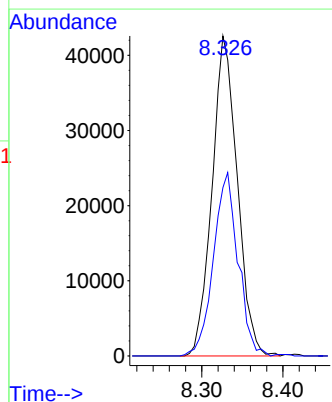
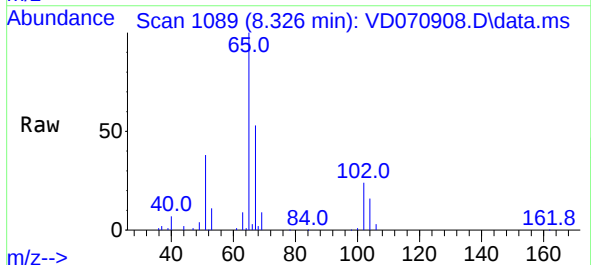


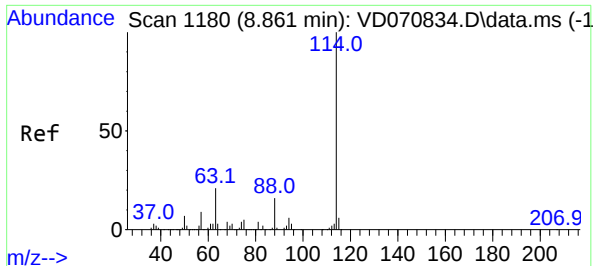
Tgt Ion: 42 Resp: 444  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.7 50.5#  
71 0.0 32.7 49.1#



#33  
1,2-Dichloroethane-d4  
Concen: 83.120 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Tgt Ion: 65 Resp: 91975  
Ion Ratio Lower Upper  
65 100  
67 55.9 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: VD070908.D

Acq: 03 Nov 2021 14:08

Instrument :

MSVOA\_D

ClientSampleId :

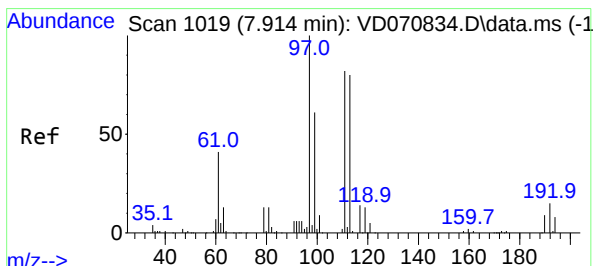
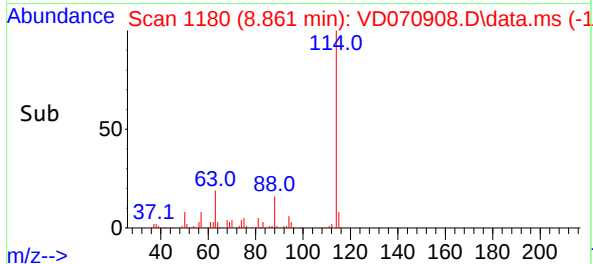
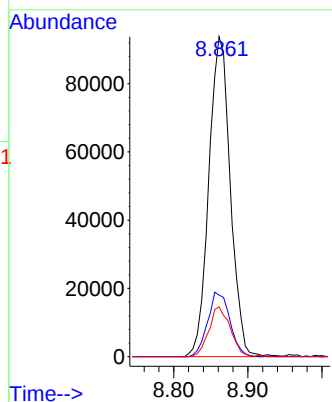
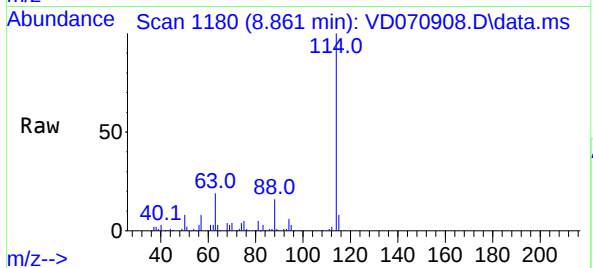
Tgt Ion:114 Resp: 188959

Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.8

88 15.5 0.0 32.8



#35

Dibromofluoromethane

Concen: 67.412 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD070908.D

Acq: 03 Nov 2021 14:08

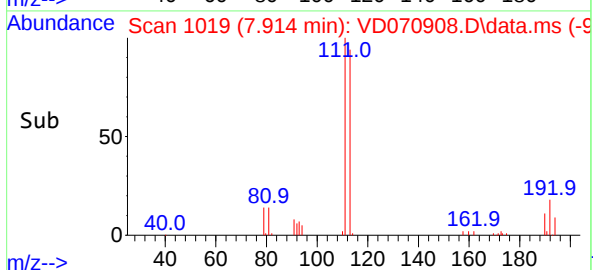
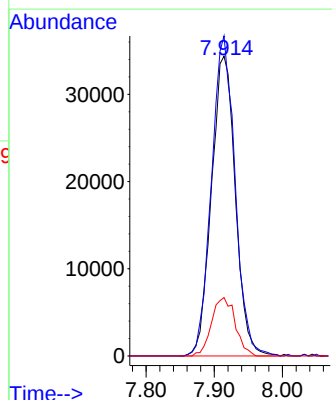
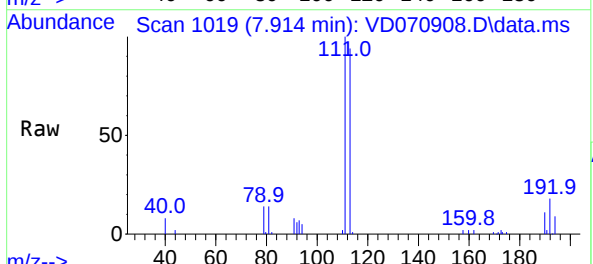
Tgt Ion:113 Resp: 83988

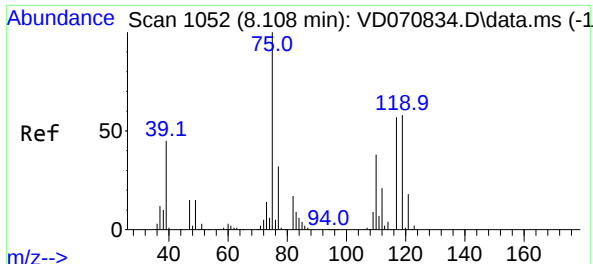
Ion Ratio Lower Upper

113 100

111 105.2 82.0 123.0

192 19.3 15.2 22.8





#36

1,1-Dichloropropene

Concen: 4.429 ug/l

RT: 7.979 min Scan# 1029

Delta R.T. -0.129 min

Lab File: VD070908.D

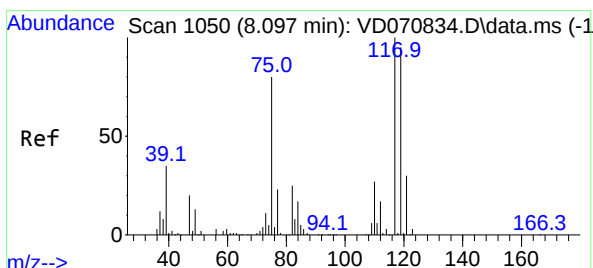
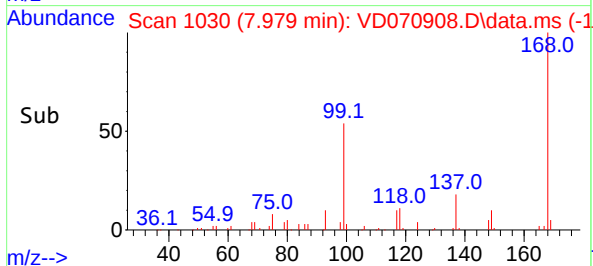
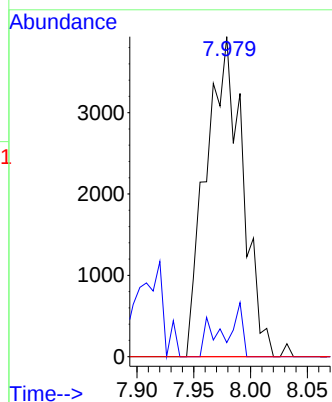
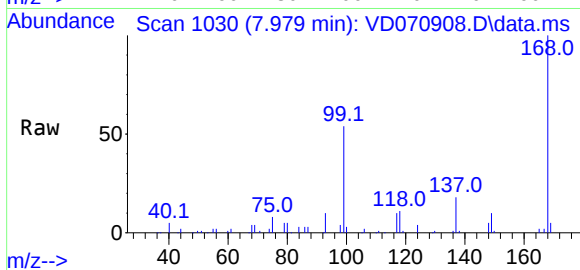
Acq: 03 Nov 2021 14:08

Instrument :

MSVOA\_D

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 8756  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 4.0     | 17.8 53.4#  |
| 77 0.0      | 24.8 37.2#  |



#38

Carbon Tetrachloride

Concen: 5.919 ug/l

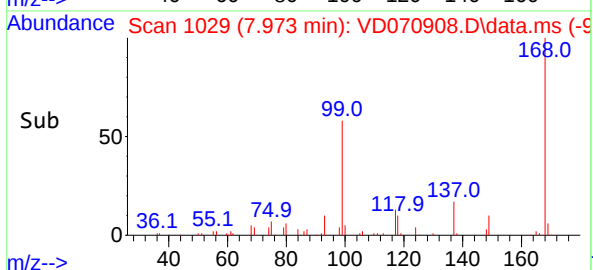
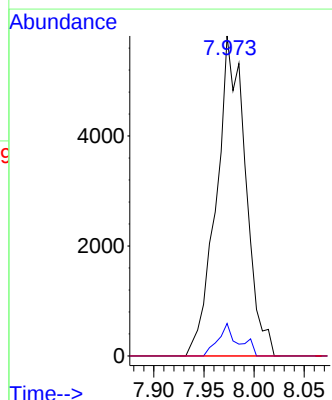
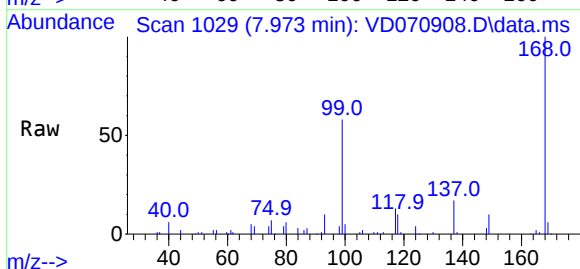
RT: 7.973 min Scan# 1029

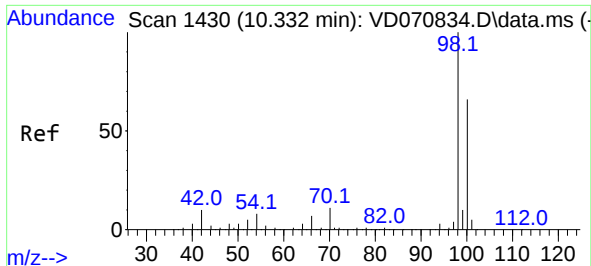
Delta R.T. -0.124 min

Lab File: VD070908.D

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|              |             |
|--------------|-------------|
| Tgt Ion: 117 | Resp: 11768 |
| Ion Ratio    | Lower Upper |
| 117 100      |             |
| 119 10.1     | 75.8 113.6# |
| 121 0.0      | 23.6 35.4#  |

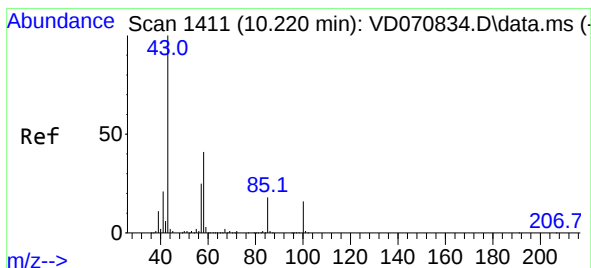
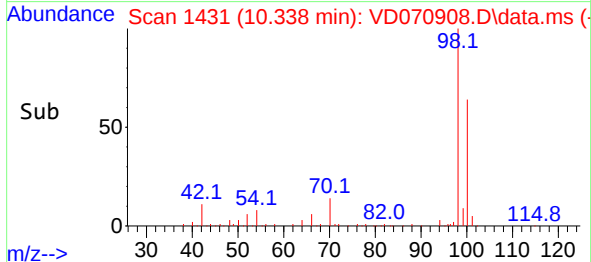
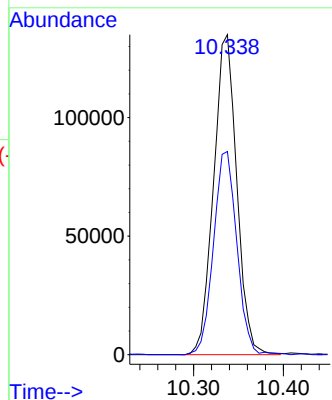
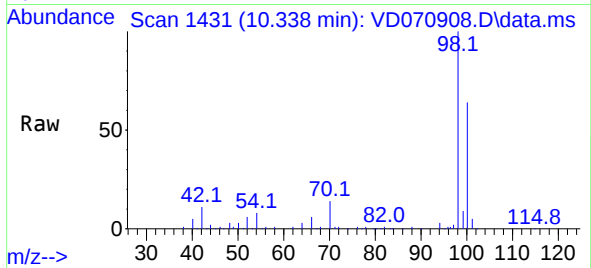




#50  
Toluene-d8  
Concen: 51.646 ug/l  
RT: 10.338 min Scan# 1430  
Delta R.T. 0.006 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

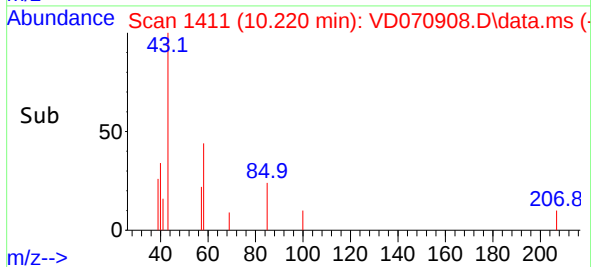
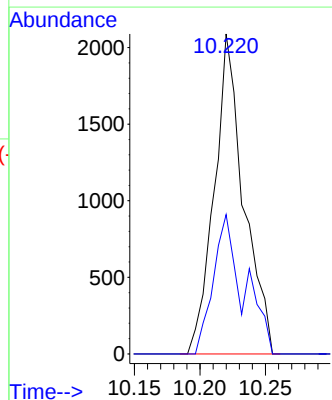
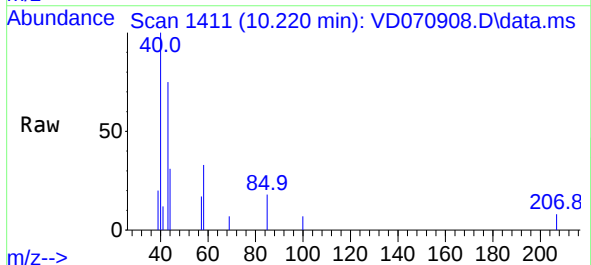
Instrument :  
MSVOA\_D  
ClientSampleId :

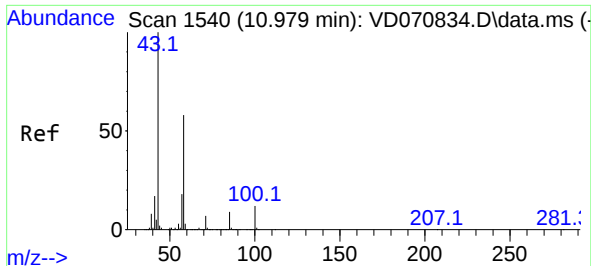
Tgt Ion: 98 Resp: 242078  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 4.540 ug/l  
RT: 10.220 min Scan# 1411  
Delta R.T. 0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Tgt Ion: 43 Resp: 3253  
Ion Ratio Lower Upper  
43 100  
58 45.1 33.1 49.7

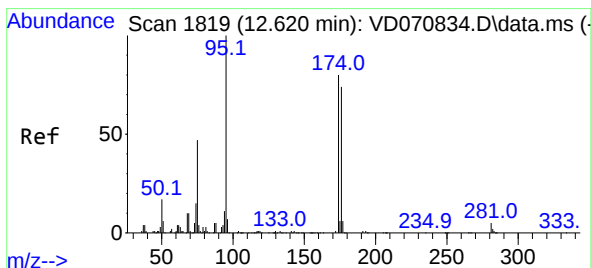
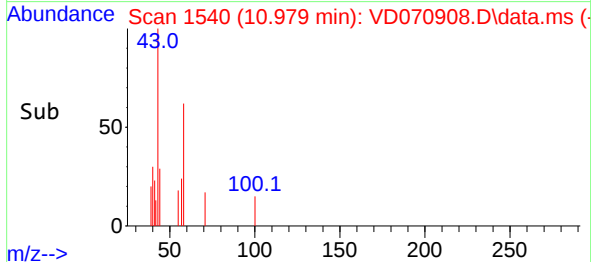
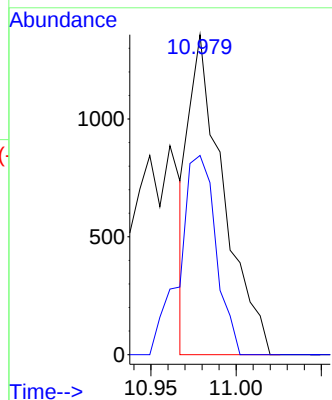
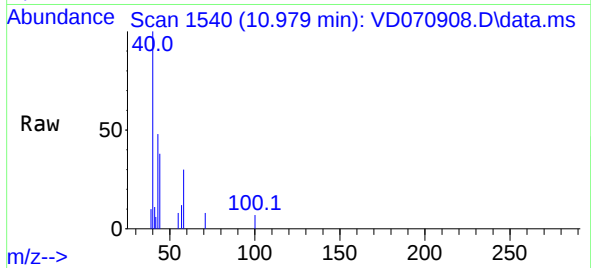




#59  
2-Hexanone  
Concen: 3.742 ug/l  
RT: 10.979 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

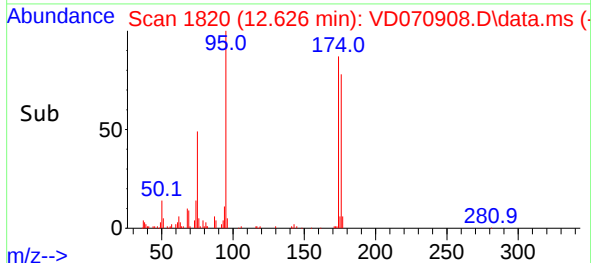
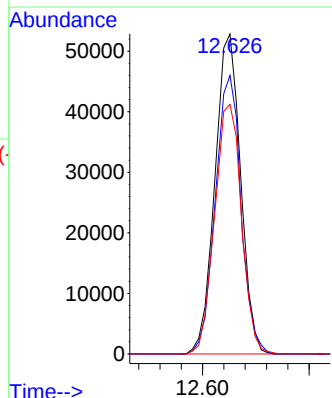
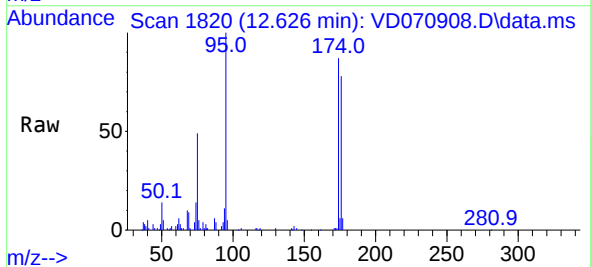
Instrument :  
MSVOA\_D  
ClientSampleId :

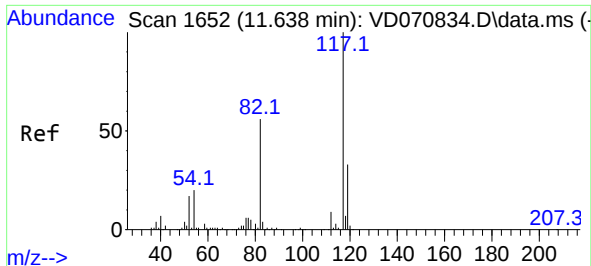
Tgt Ion: 43 Resp: 1914  
Ion Ratio Lower Upper  
43 100  
58 65.4 28.7 86.1



#62  
4-Bromofluorobenzene  
Concen: 57.038 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.006 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

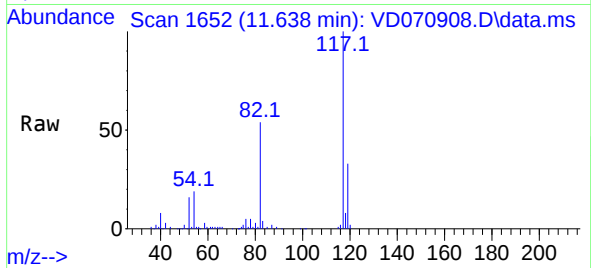
Tgt Ion: 95 Resp: 88212  
Ion Ratio Lower Upper  
95 100  
174 87.1 0.0 159.4  
176 81.4 0.0 154.0



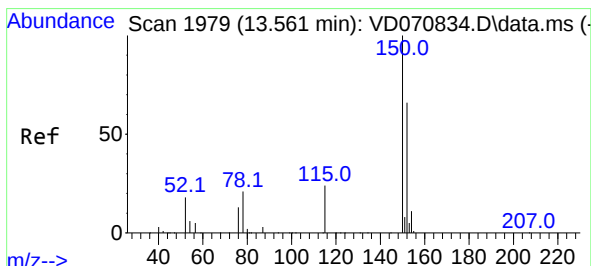
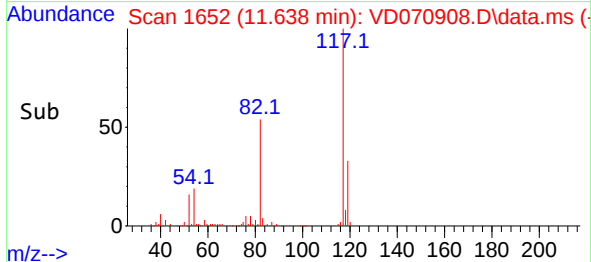
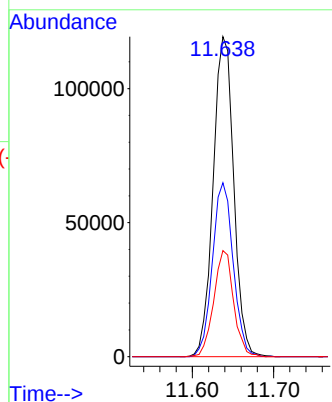


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Instrument :  
MSVOA\_D  
ClientSampleId :

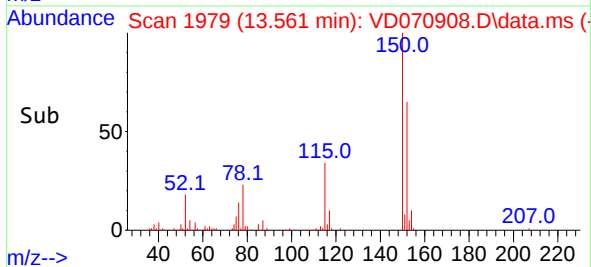
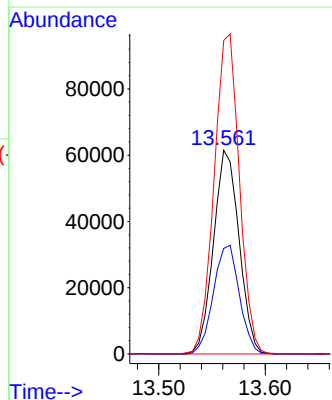
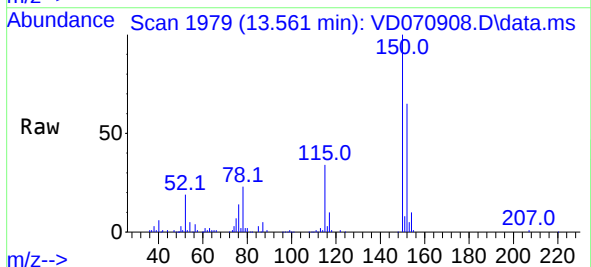


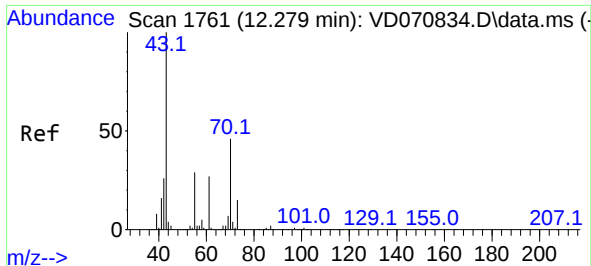
Tgt Ion:117 Resp: 210573  
Ion Ratio Lower Upper  
117 100  
82 54.3 44.7 67.1  
119 33.1 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

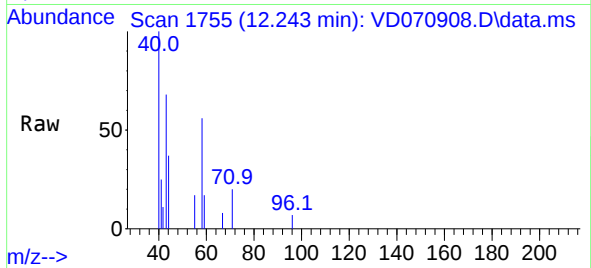
Tgt Ion:152 Resp: 102339  
Ion Ratio Lower Upper  
152 100  
115 54.3 29.8 89.3  
150 155.4 0.0 349.2



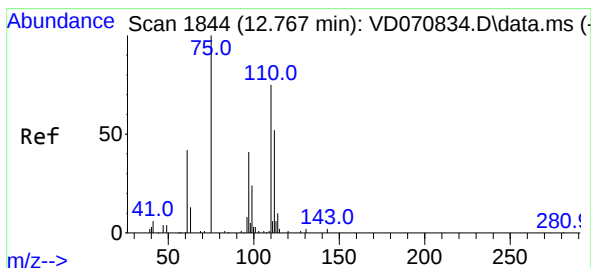
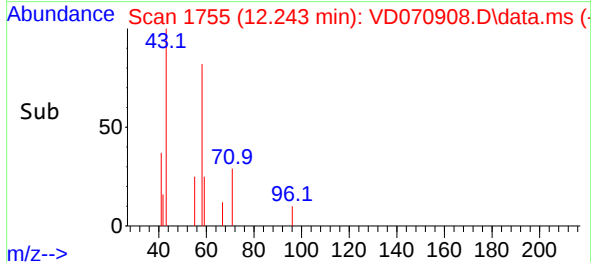
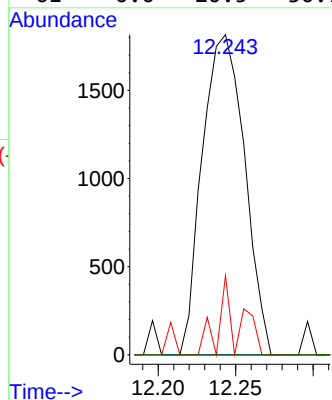


#74  
N-amy1 acetate  
Concen: 2.296 ug/l  
RT: 12.243 min Scan# 11  
Delta R.T. -0.035 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

Instrument :  
MSVOA\_D  
ClientSampleId :

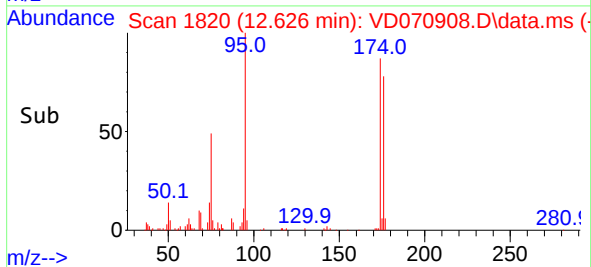
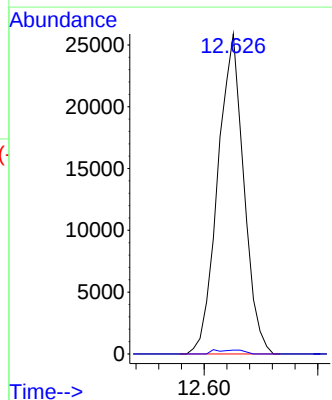
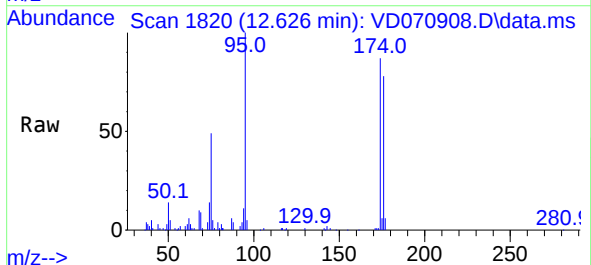


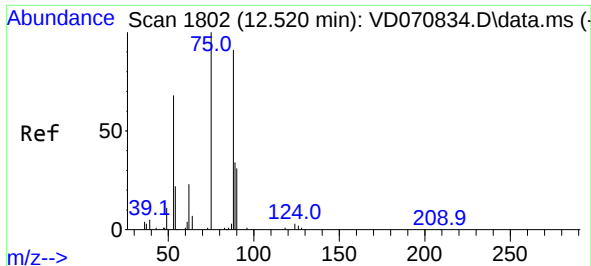
Tgt Ion: 43 Resp: 3447  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.6 55.0#  
55 11.7 22.5 33.7#  
61 0.0 20.5 30.7#



#76  
1,2,3-Trichloropropane  
Concen: 40.872 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.141 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

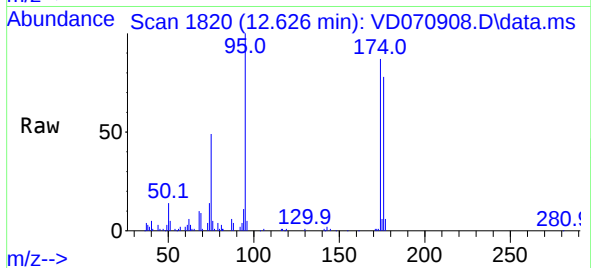
Tgt Ion: 75 Resp: 41176  
Ion Ratio Lower Upper  
75 100  
77 1.4 158.4 475.3#



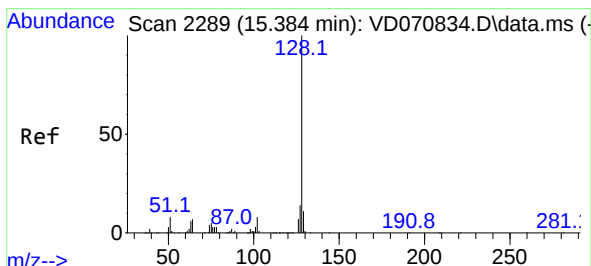
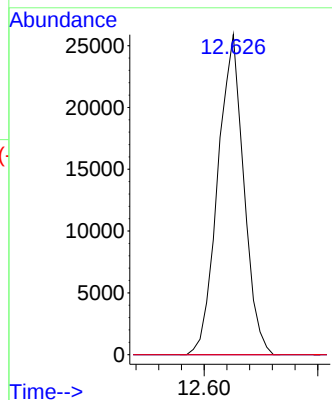
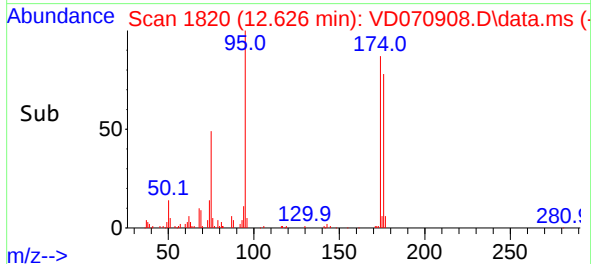


#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.275 ug/l  
RT: 12.626 min Scan# 1802  
Delta R.T. 0.106 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08

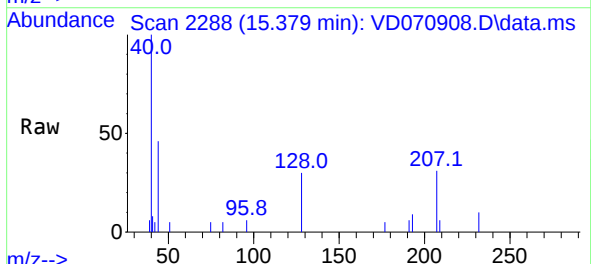
Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 75 Resp: 41176  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.0 34.5 51.7#



#95  
Naphthalene  
Concen: 4.657 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.005 min  
Lab File: VD070908.D  
Acq: 03 Nov 2021 14:08



Tgt Ion: 128 Resp: 1867  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 8.7 13.1#

