

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021721\  
 Data File : VD068389.D  
 Acq On : 17 Feb 2021 18:03  
 Operator : VA/SY  
 Sample : M1446-01  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 R-LA-3-5-WC

Quant Time: Feb 18 00:14:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 13:30:51 2021  
 Response via : Initial Calibration

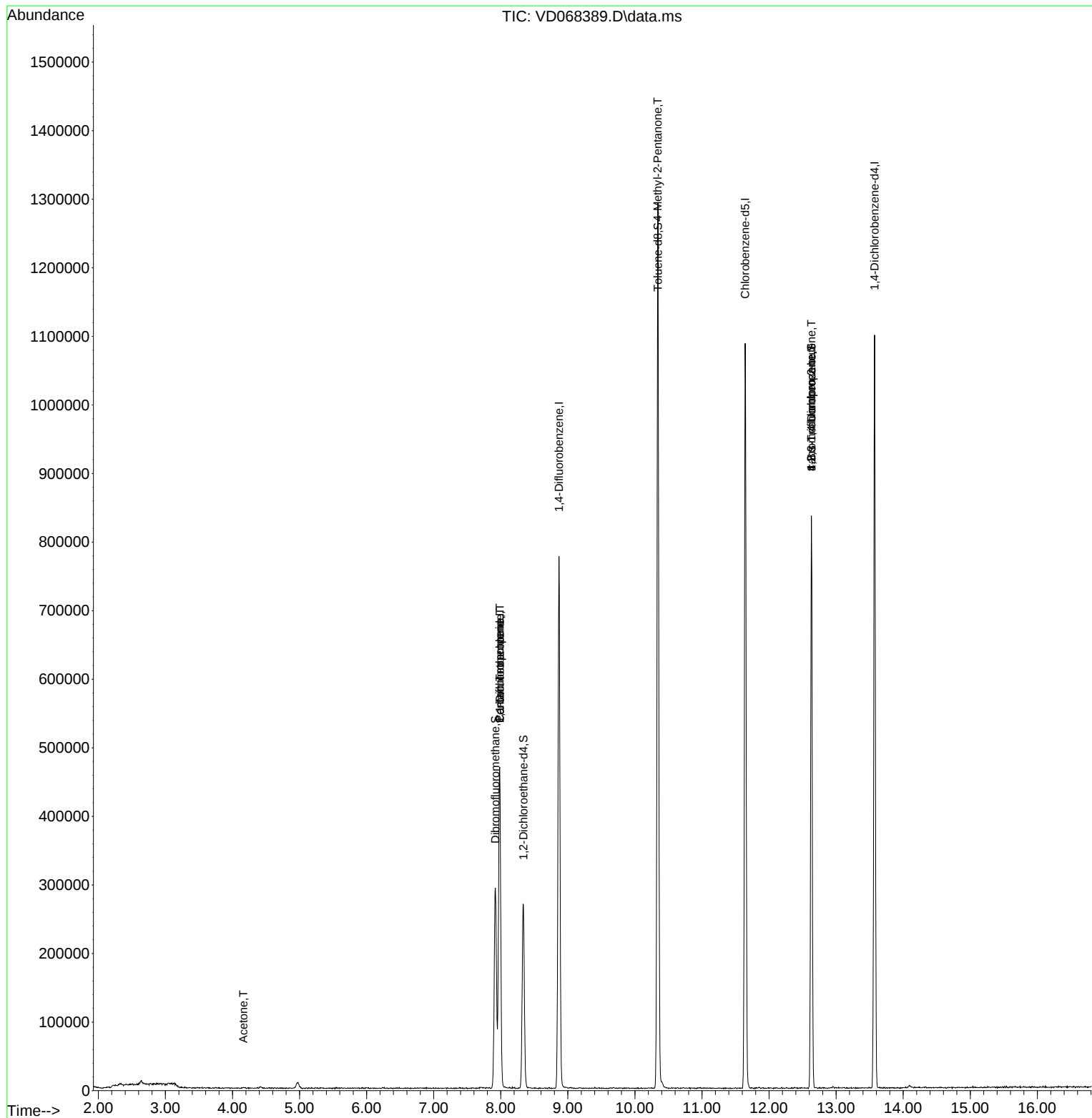
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.985          | 168  | 357212             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 688340             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643         | 117  | 645154             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.573         | 152  | 286944             | 50.00     | ug/l   | 0.00     |
|                               |                |      |                    |           |        |          |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.338          | 65   | 217558             | 59.57     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 119.14% |           |        |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 215915             | 52.85     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 105.70% |           |        |          |
| 50) Toluene-d8                | 10.344         | 98   | 881023             | 52.02     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 104.04% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 282903             | 51.28     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 102.56% |           |        |          |
|                               |                |      |                    |           |        |          |
| Target Compounds              |                |      |                    |           | Qvalue |          |
| 16) Acetone                   | 4.161          | 43   | 1820               | 3.23      | ug/l # | 53       |
| 20) Methylene Chloride        | 4.979          | 84   | 6998               | Below Cal | #      | 91       |
| 31) Cyclohexane               | 7.985          | 56   | 7811               | Below Cal | #      | 1        |
| 36) 1,1-Dichloropropene       | 7.985          | 75   | 29714              | 4.88      | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.985          | 117  | 34847              | 6.00      | ug/l # | 14       |
| 51) 4-Methyl-2-Pentanone      | 10.338         | 43   | 3529               | 1.74      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 141340             | 51.76     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 141340             | 129.75    | ug/l # | 13       |
| -----                         |                |      |                    |           |        |          |

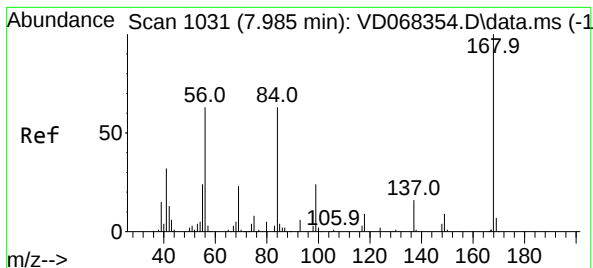
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC

Quant Time: Feb 18 00:14:29 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 12 13:30:51 2021  
Response via : Initial Calibration

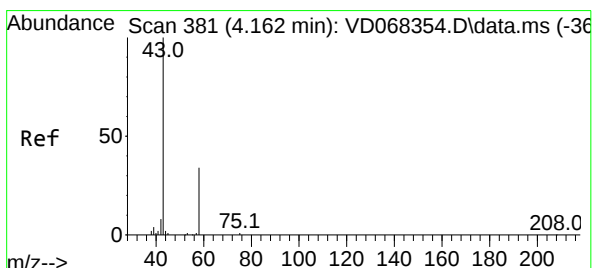
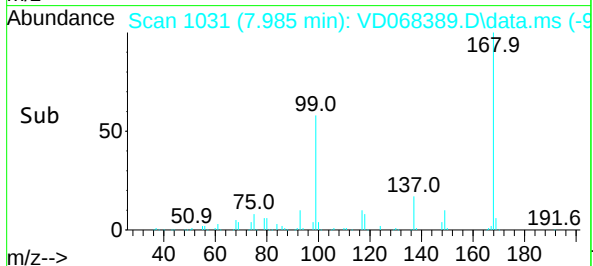
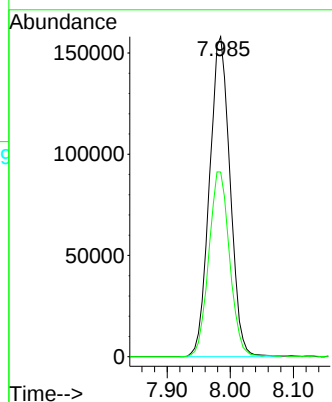
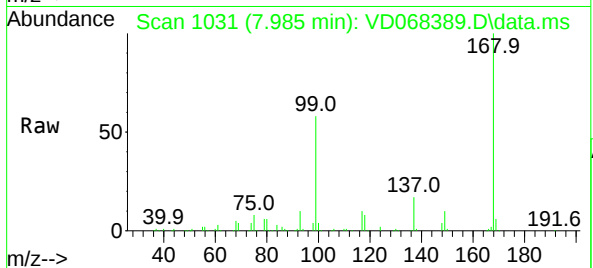




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

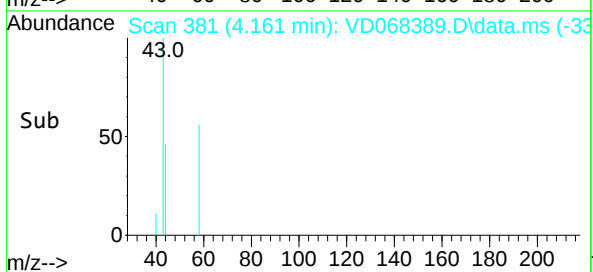
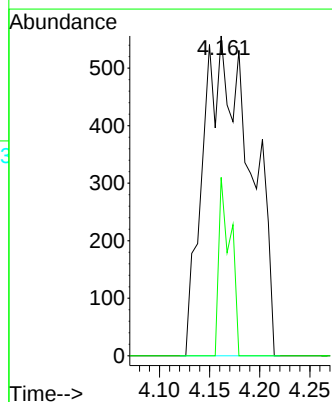
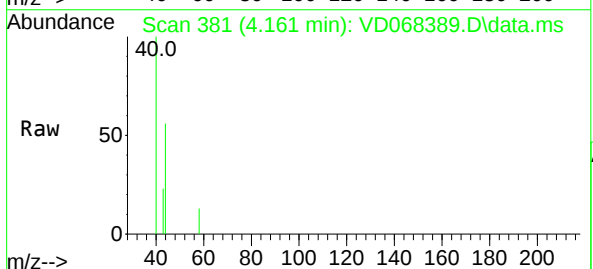
Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC

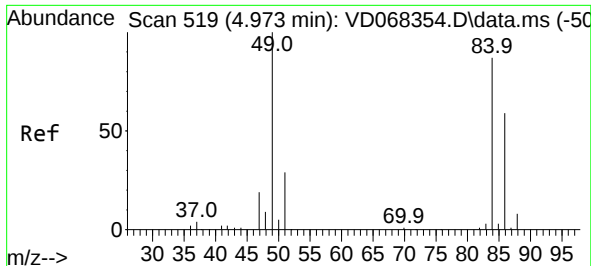
Tgt Ion:168 Resp: 357212  
Ion Ratio Lower Upper  
168 100  
99 57.7 43.5 65.3



#16  
Acetone  
Concen: 3.23 ug/l  
RT: 4.161 min Scan# 381  
Delta R.T. -0.000 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

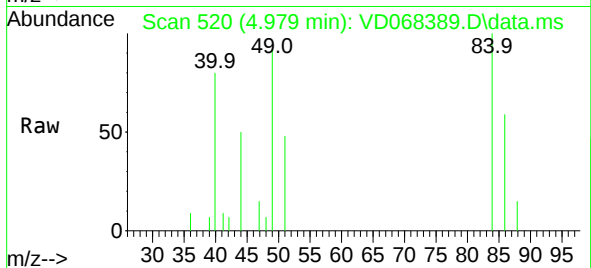
Tgt Ion: 43 Resp: 1820  
Ion Ratio Lower Upper  
43 100  
58 55.8 24.2 36.4#



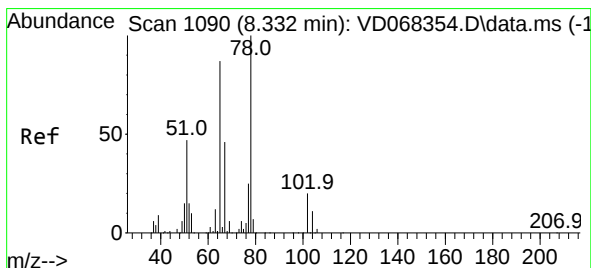
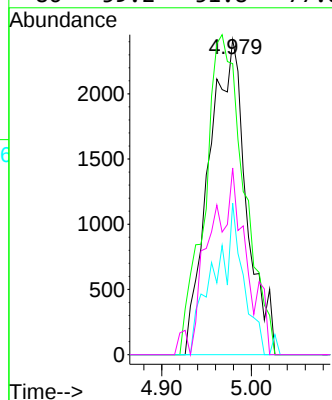
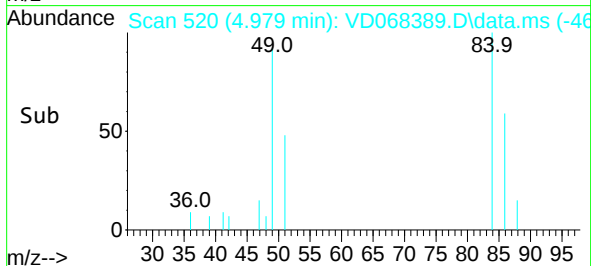


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.979 min Scan# 520  
Delta R.T. 0.006 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

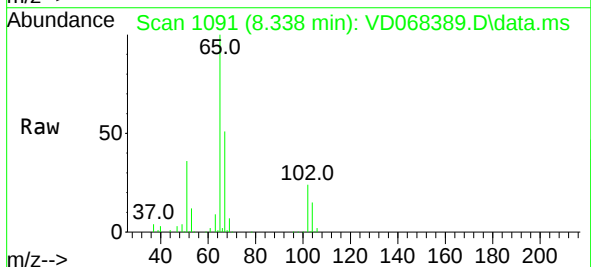
Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC



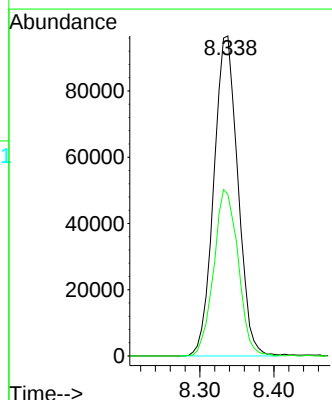
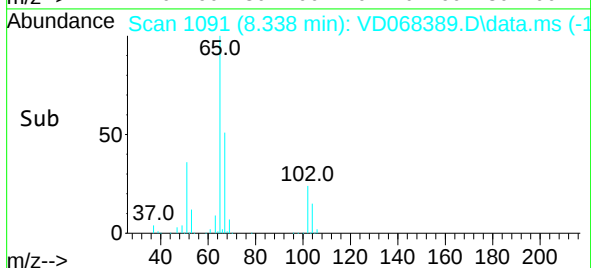
| Tgt Ion: | 84    | Resp: | 6998  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 92.3  | 77.4  | 116.2 |
| 51       | 48.1  | 26.1  | 39.1# |
| 86       | 59.2  | 51.8  | 77.8  |

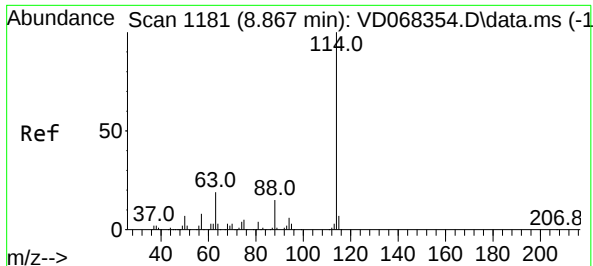


#33  
1,2-Dichloroethane-d4  
Concen: 59.57 ug/l  
RT: 8.338 min Scan# 1091  
Delta R.T. 0.006 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03



| Tgt Ion: | 65    | Resp: | 217558 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 52.7  | 0.0   | 105.0  |



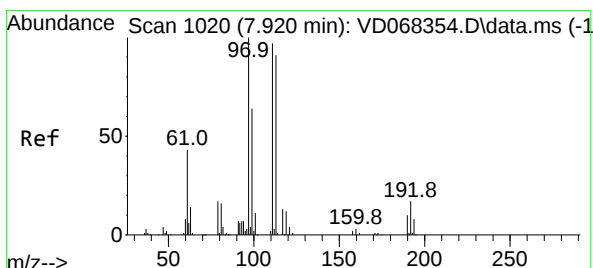
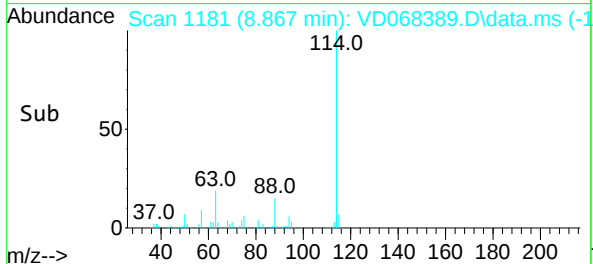
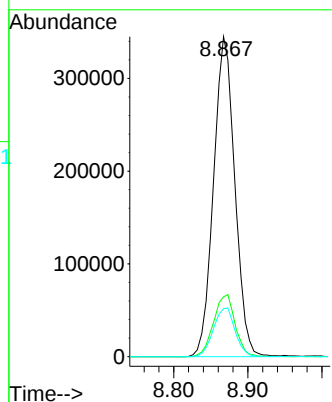
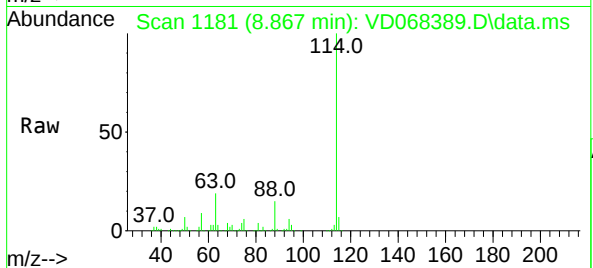


#34

1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC

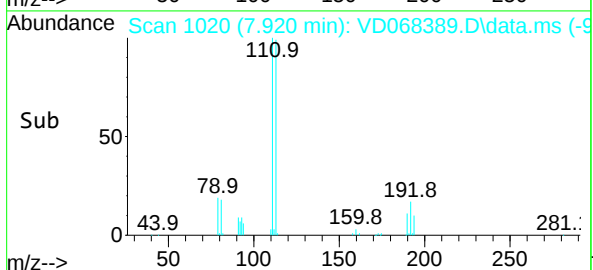
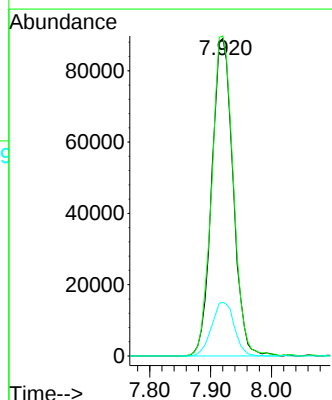
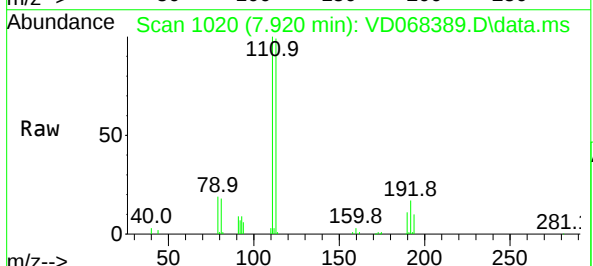
Tgt Ion:114 Resp: 688340  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 34.8  
88 15.0 0.0 31.6

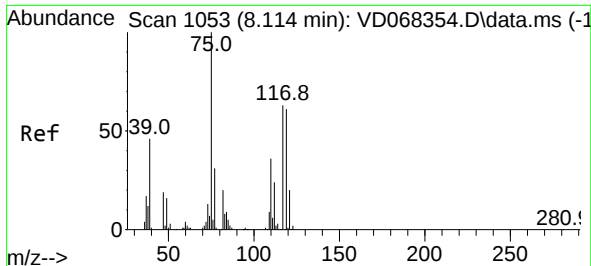


#35

Dibromofluoromethane  
Concen: 52.85 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. -0.000 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

Tgt Ion:113 Resp: 215915  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.4 122.0  
192 17.9 16.1 24.1

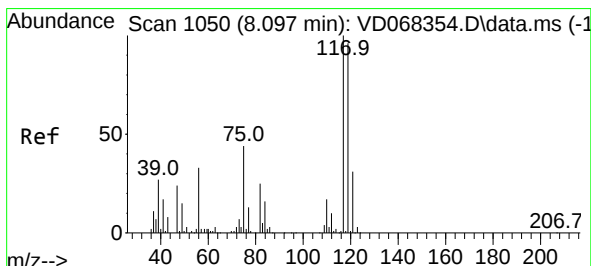
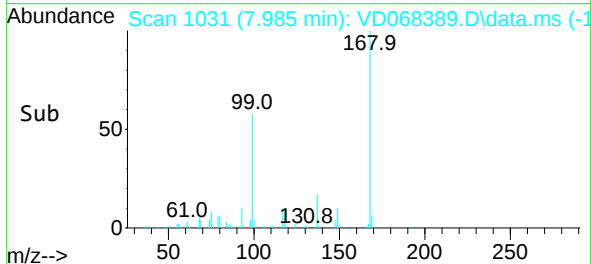
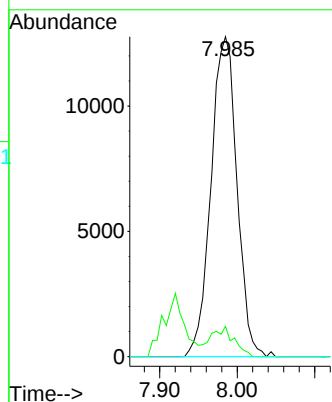
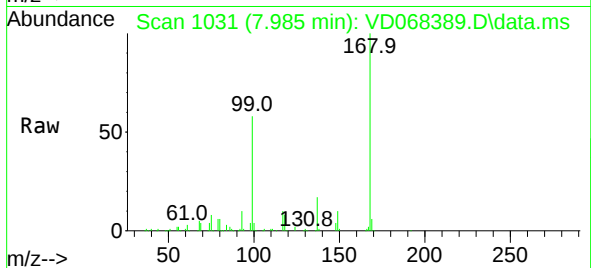




#36  
1,1-Dichloropropene  
Concen: 4.88 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.130 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

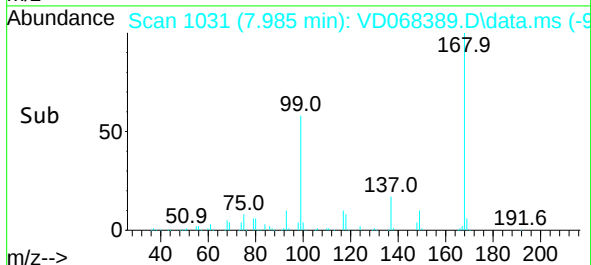
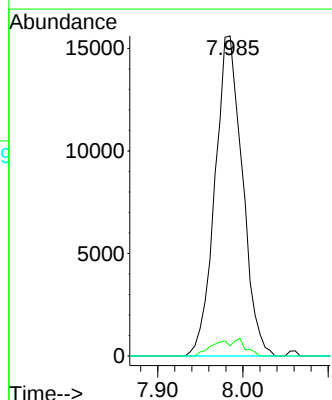
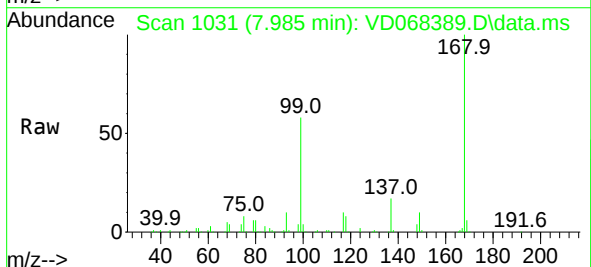
Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC

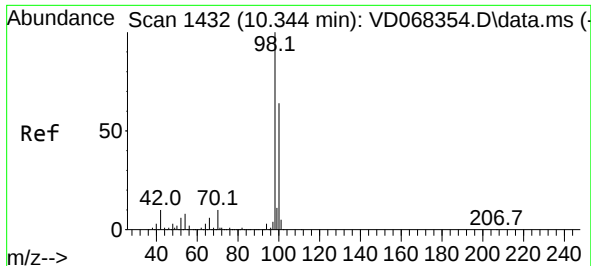
Tgt Ion: 75 Resp: 29714  
Ion Ratio Lower Upper  
75 100  
110 8.7 19.4 58.2#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.00 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.112 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

Tgt Ion: 117 Resp: 34847  
Ion Ratio Lower Upper  
117 100  
119 3.1 77.3 115.9#  
121 0.0 24.7 37.1#

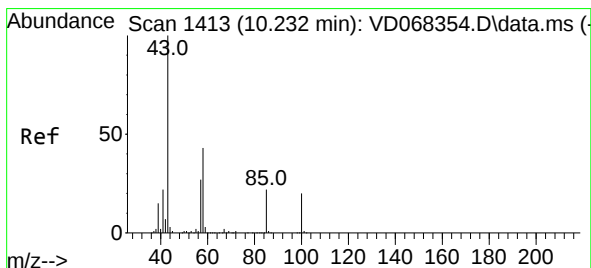
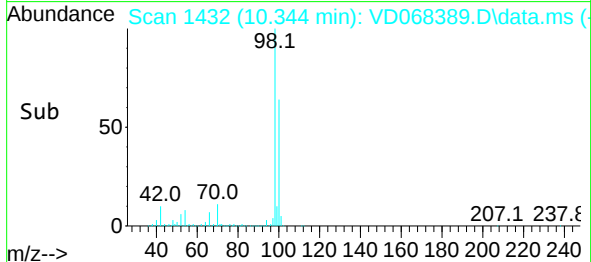
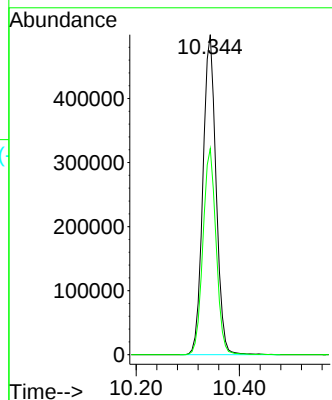
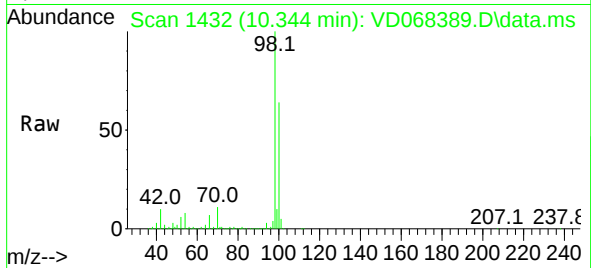




#50  
Toluene-d8  
Concen: 52.02 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

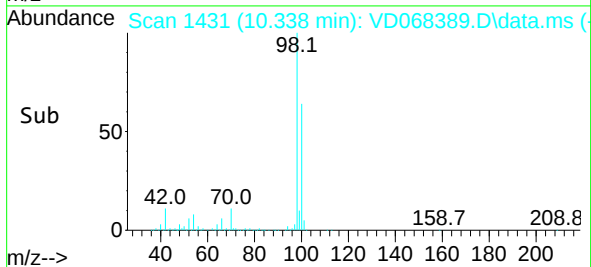
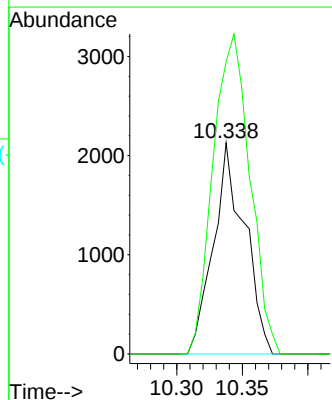
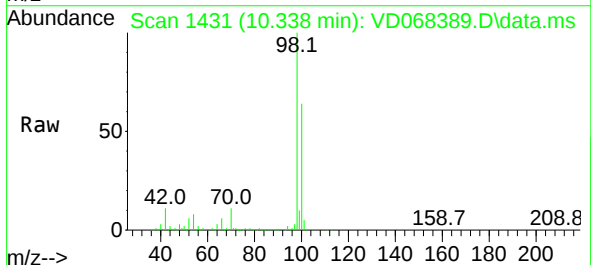
Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC

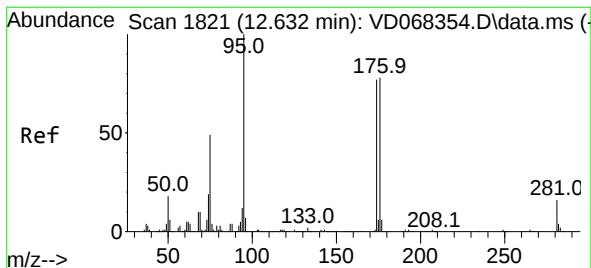
Tgt Ion: 98 Resp: 881023  
Ion Ratio Lower Upper  
98 100  
100 64.5 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 1.74 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.106 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

Tgt Ion: 43 Resp: 3529  
Ion Ratio Lower Upper  
43 100  
58 178.8 36.1 54.1#

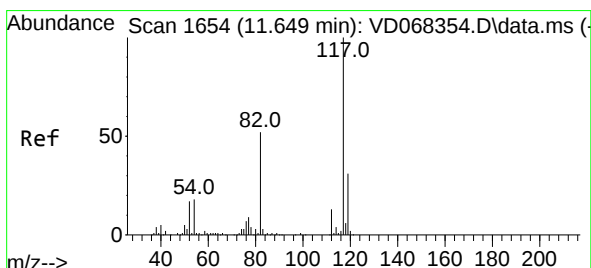
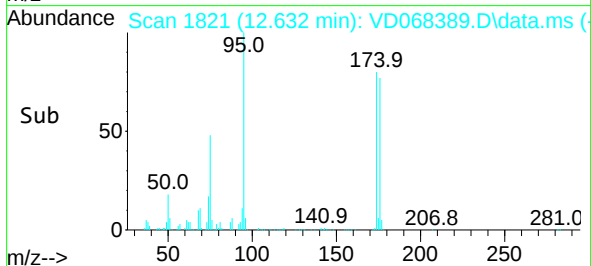
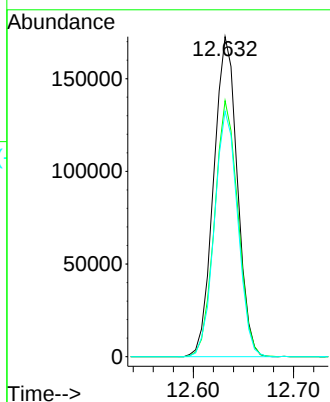
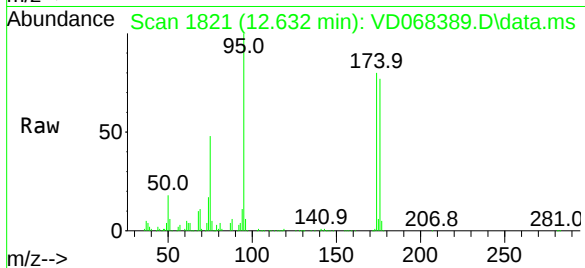




#62  
4-Bromofluorobenzene  
Concen: 51.28 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.000 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

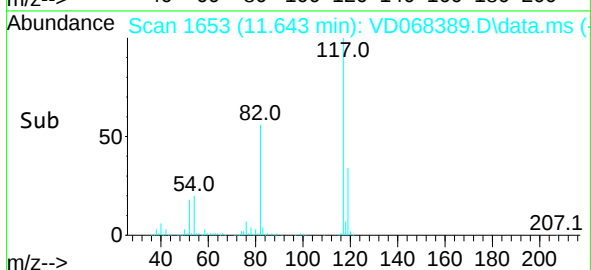
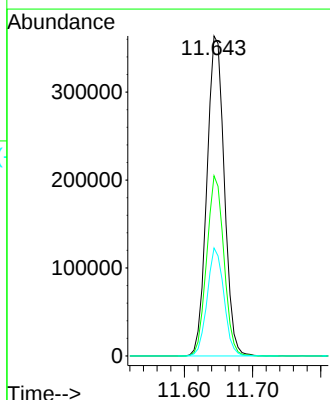
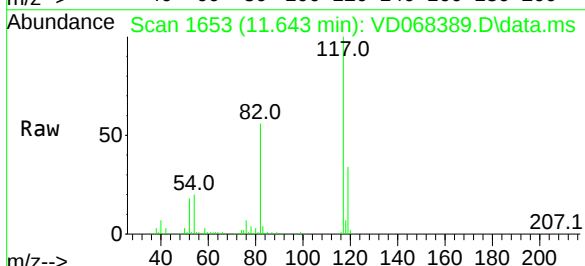
Instrument :  
MSVOA\_D  
ClientSampleId :  
R-LA-3-5-WC

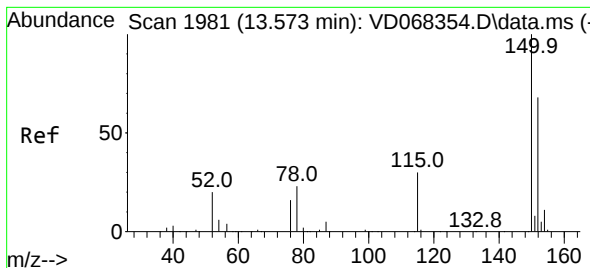
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 282903 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 79.0  | 0.0   | 172.4  |
| 176      | 75.6  | 0.0   | 168.4  |



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. -0.006 min  
Lab File: VD068389.D  
Acq: 17 Feb 2021 18:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 645154 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 56.3  | 41.4  | 62.0   |
| 119      | 33.8  | 26.1  | 39.1   |

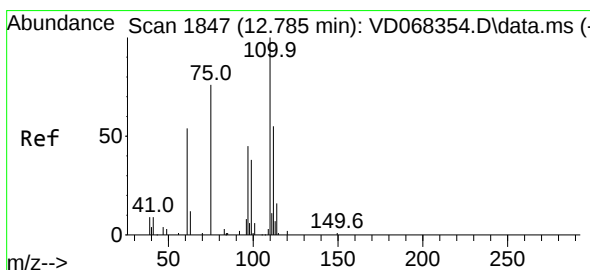
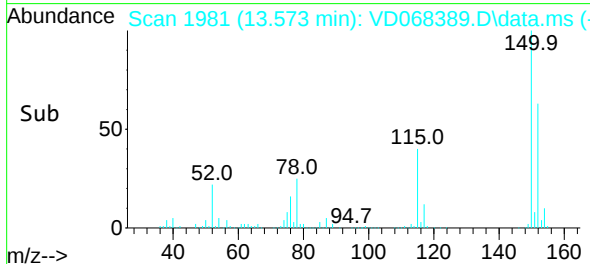
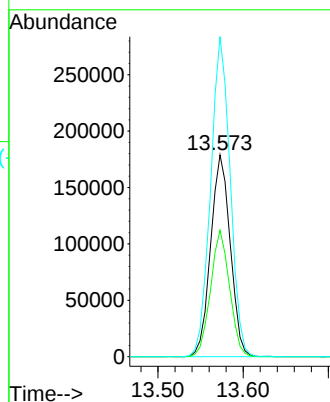
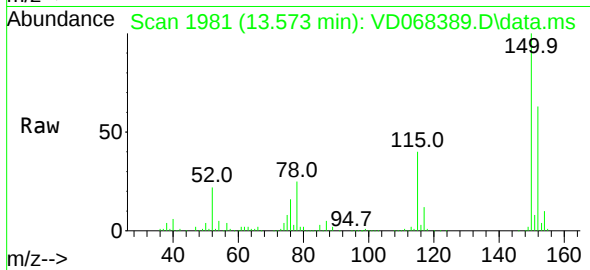




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.573 min Scan# 1981  
 Delta R.T. -0.000 min  
 Lab File: VD068389.D  
 Acq: 17 Feb 2021 18:03

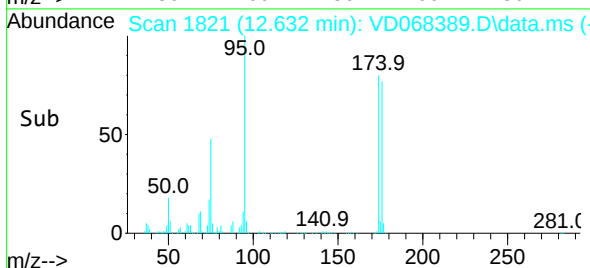
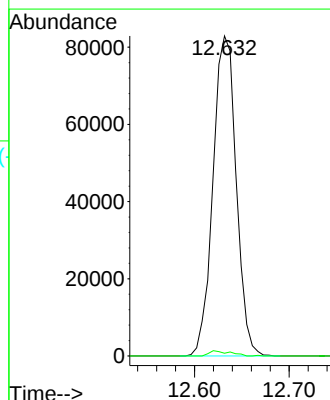
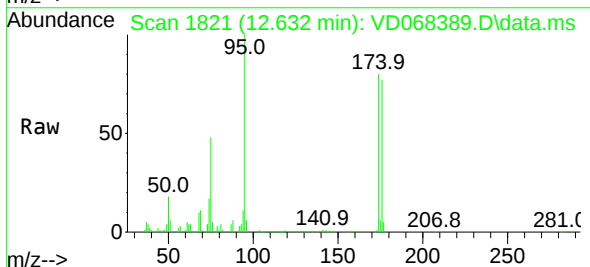
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 R-LA-3-5-WC

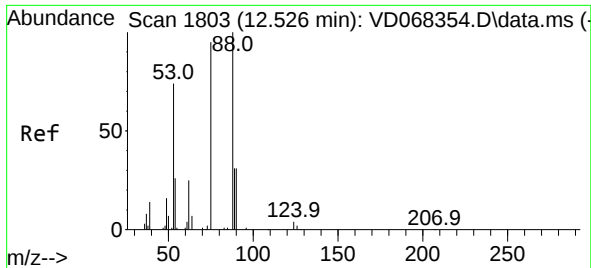
Tgt Ion:152 Resp: 286944  
 Ion Ratio Lower Upper  
 152 100  
 115 60.5 28.9 86.8  
 150 157.9 0.0 344.4



#76  
 1,2,3-Trichloropropane  
 Concen: 51.76 ug/l  
 RT: 12.632 min Scan# 1821  
 Delta R.T. -0.153 min  
 Lab File: VD068389.D  
 Acq: 17 Feb 2021 18:03

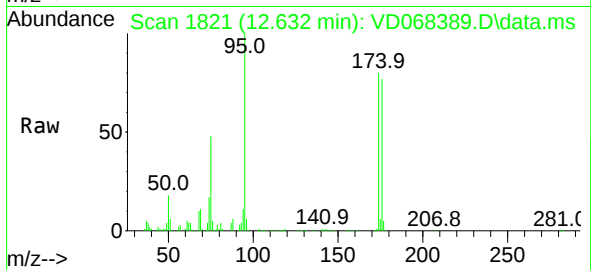
Tgt Ion: 75 Resp: 141340  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 129.75 ug/l  
 RT: 12.632 min Scan# 1821  
 Delta R.T. 0.106 min  
 Lab File: VD068389.D  
 Acq: 17 Feb 2021 18:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 R-LA-3-5-WC



Tgt Ion: 75 Resp: 141340  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 70.2 105.2#  
 89 0.0 40.3 60.5#

