

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112519\  
 Data File : VD064372.D  
 Acq On : 25 Nov 2019 20:49  
 Operator : VA/SY  
 Sample : K5667-01  
 Misc : 7.12G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 26 05:38:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 758339   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 1143915  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 1033238  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 491952   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 339967   | 54.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.02% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 348442   | 53.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.14% |          |
| 50) Toluene-d8              | 10.34 | 98   | 1361298  | 54.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.92% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 437296   | 50.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.96% |          |

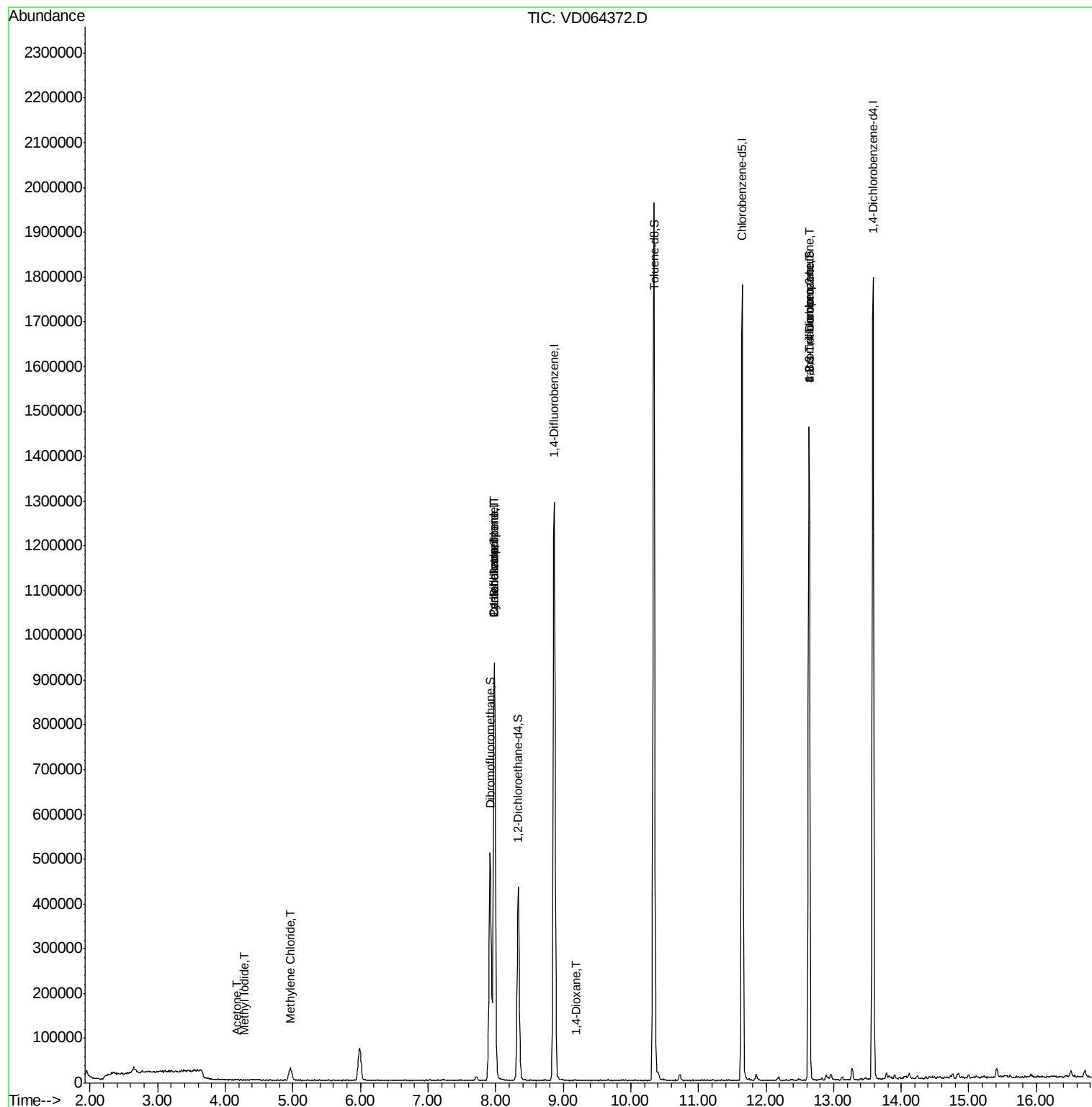
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.28  | 142  | 56       | 2.038   | ug/l # | 41     |
| 16) Acetone                    | 4.17  | 43   | 1892     | 1.281   | ug/l   | 89     |
| 20) Methylene Chloride         | 4.97  | 84   | 21804    | 2.921   | ug/l   | 94     |
| 31) Cyclohexane                | 7.97  | 56   | 14968    | 1.223   | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 52492    | 4.972   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 69093    | 6.116   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.20  | 88   | 63       | 1.395   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 229740   | 57.978  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 229740   | 115.167 | ug/l # | 10     |

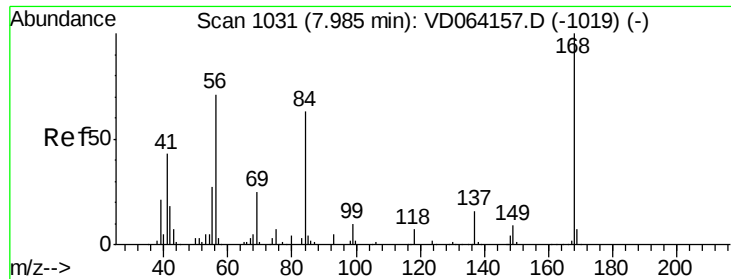
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Nov 26 05:38:13 2019  
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Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064372.D

Acq: 25 Nov 2019 20:49

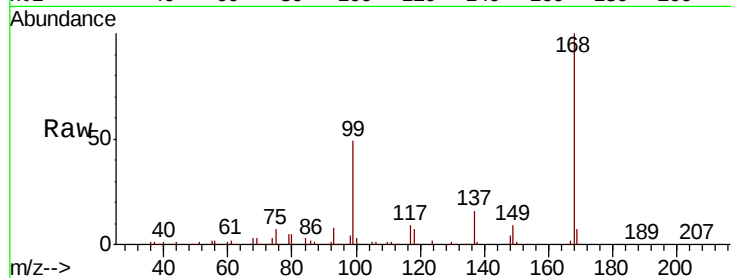
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 758339

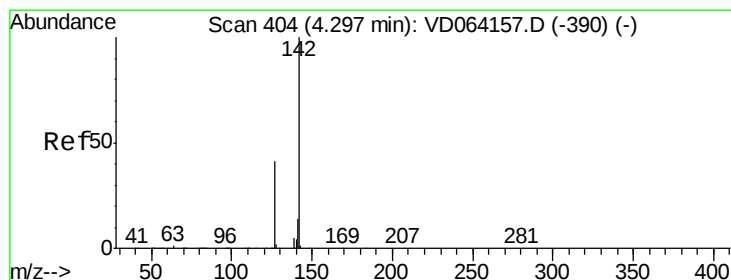
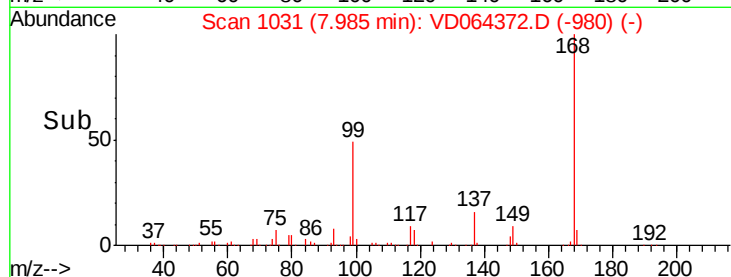
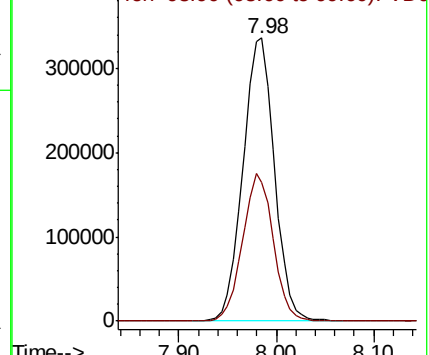
Ion Ratio Lower Upper

168 100

99 49.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): V



#10

Methyl Iodide

Concen: 2.038 ug/l

RT: 4.28 min Scan# 401

Delta R.T. -0.02 min

Lab File: VD064372.D

Acq: 25 Nov 2019 20:49

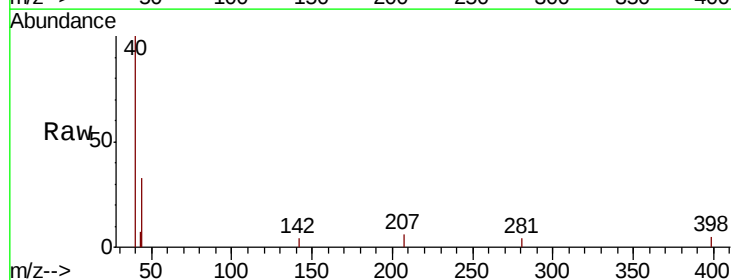
Tgt Ion:142 Resp: 56

Ion Ratio Lower Upper

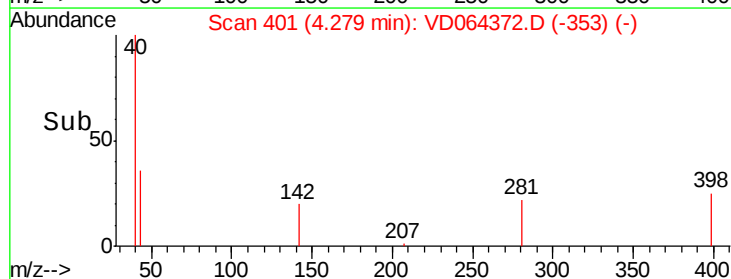
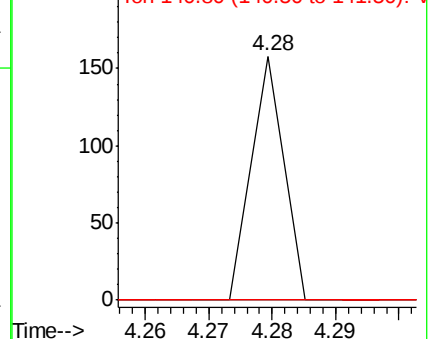
142 100

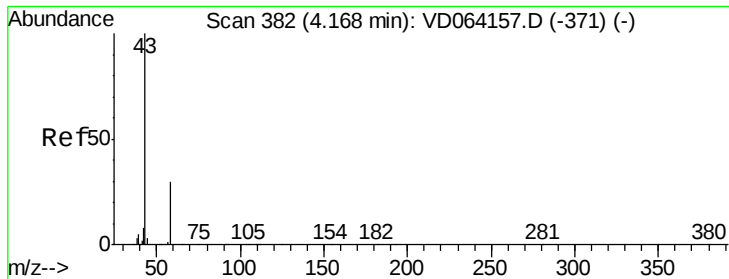
127 0.0 34.4 51.6#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

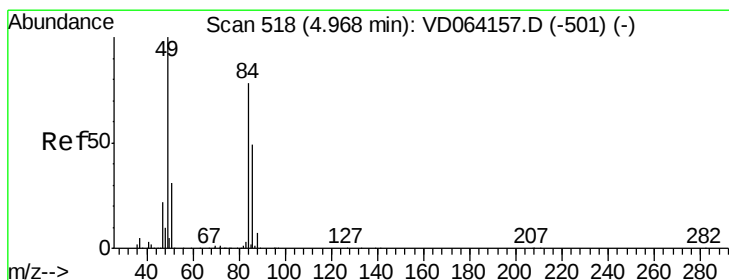
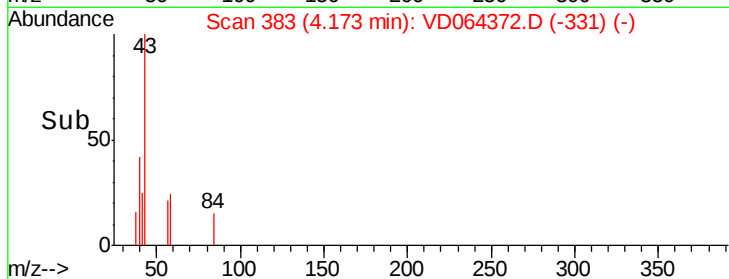
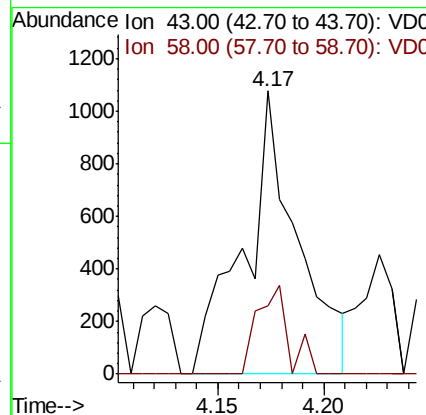
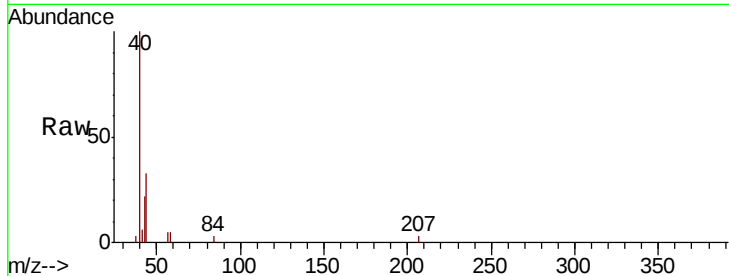




#16  
Acetone  
Concen: 1.281 ug/l  
RT: 4.17 min Scan# 383  
Delta R.T. 0.01 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

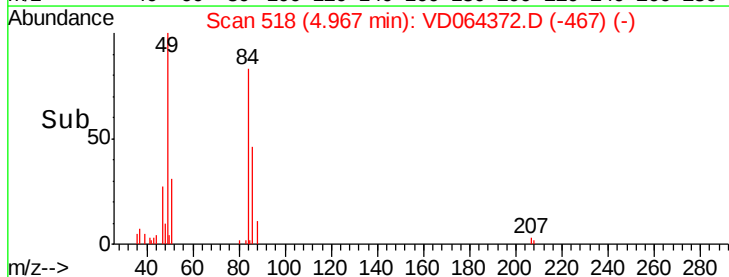
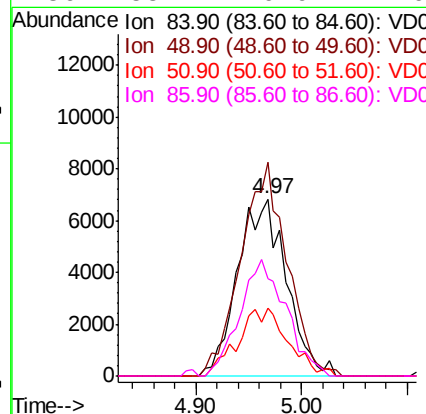
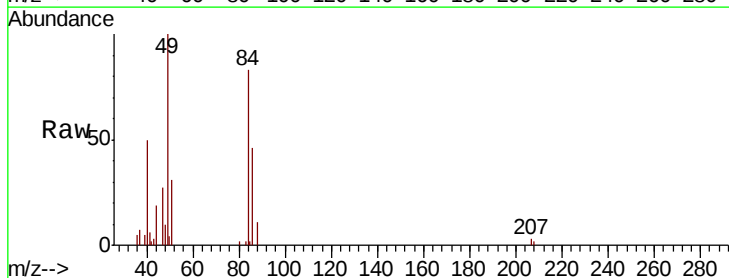
Instrument :  
MSVOA\_D  
ClientSampled :

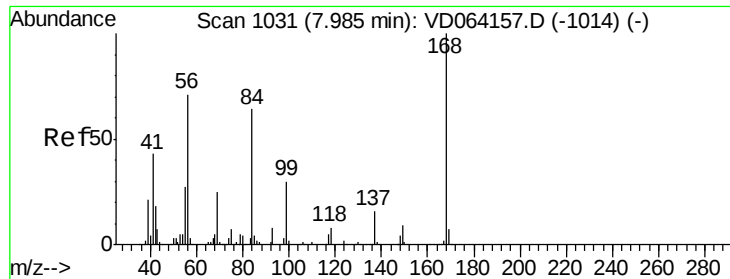
Tot Ion: 43 Resp: 1892  
Ion Ratio Lower Upper  
43 100  
58 24.3 24.1 36.1



#20  
Methylene Chloride  
Concen: 2.921 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. -0.00 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

Tgt Ion: 84 Resp: 21804  
Ion Ratio Lower Upper  
84 100  
49 120.9 102.1 153.1  
51 38.1 32.2 48.2  
86 55.1 49.9 74.9

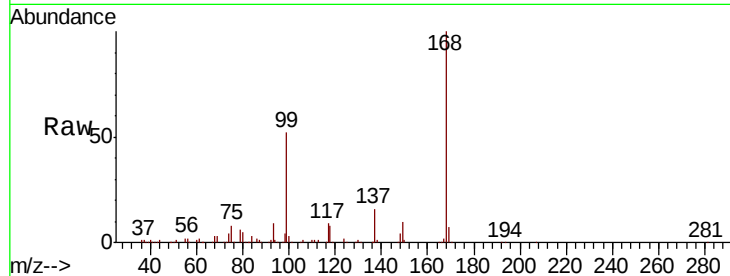




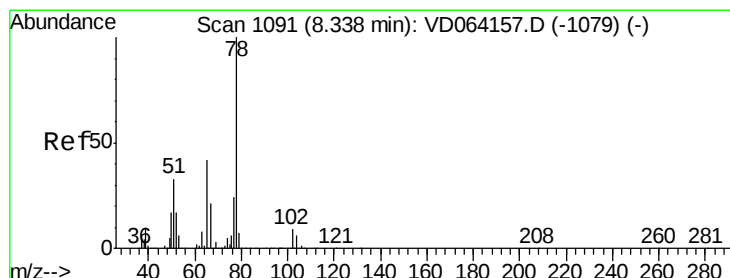
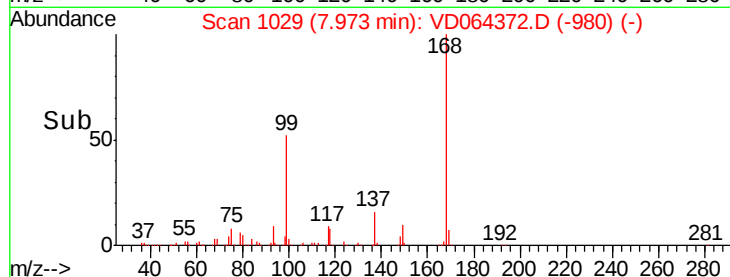
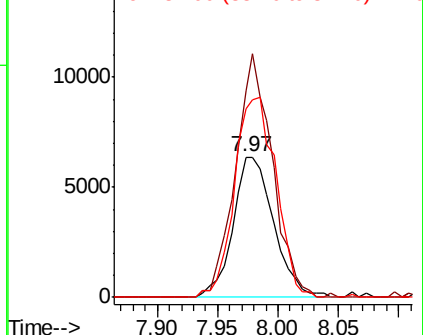
#31  
Cvclohexane  
Concen: 1.223 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 14968  
Ion Ratio Lower Upper  
56 100  
69 147.9 28.2 42.4#  
84 134.6 71.8 107.6#

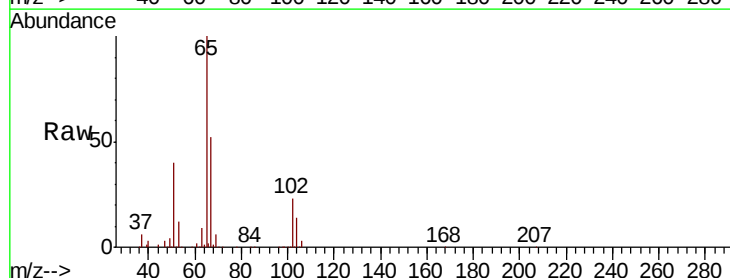


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

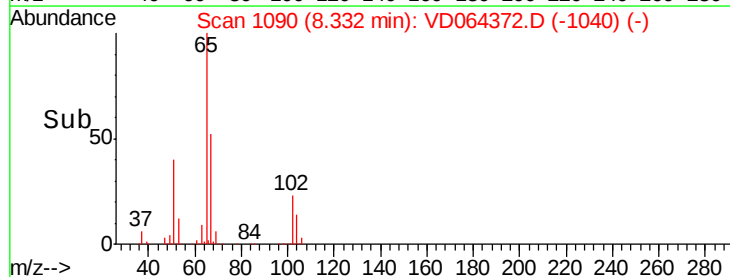
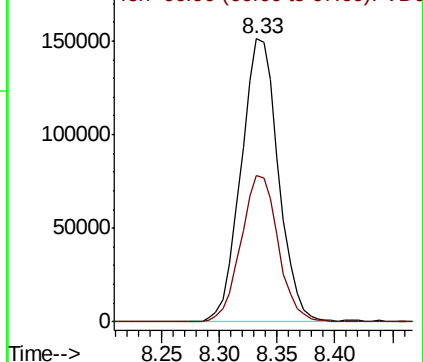


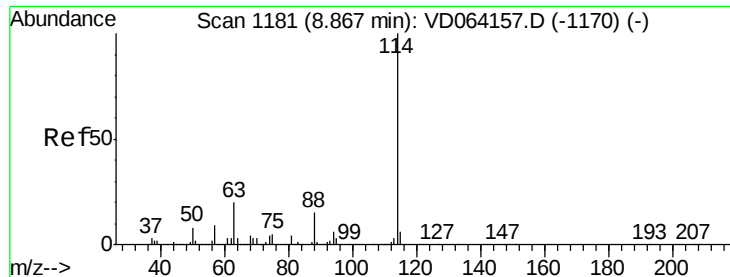
#33  
1,2-Dichloroethane-d4  
Concen: 54.509 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

Tgt Ion: 65 Resp: 339967  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

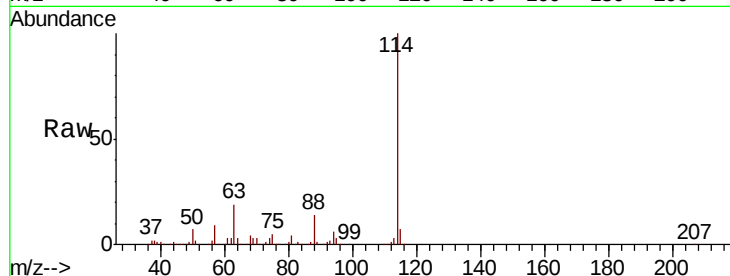




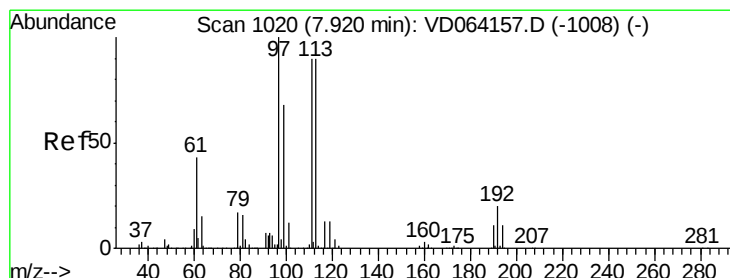
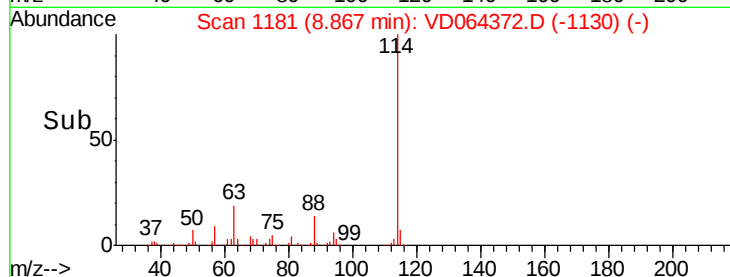
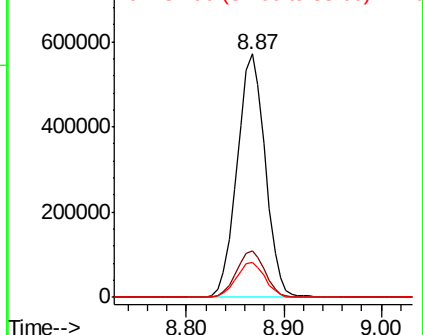
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064372.D  
 Acq: 25 Nov 2019 20:49

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:114 Resp: 1143915  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 40.0  
 88 14.5 0.0 30.2

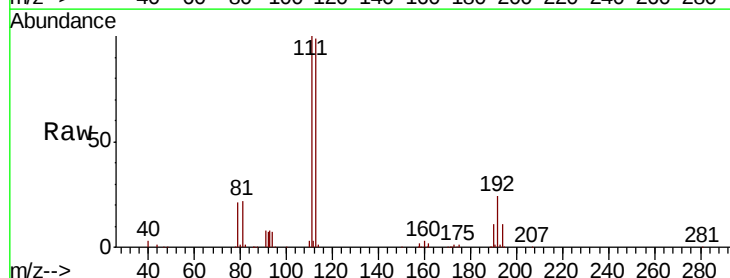


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

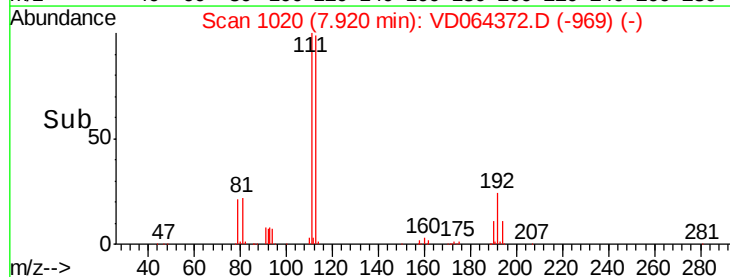
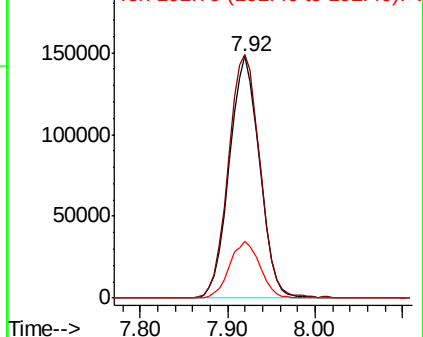


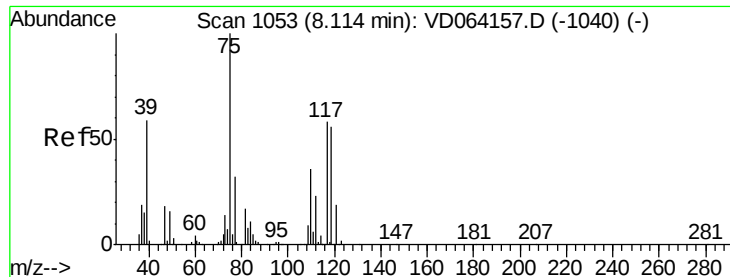
#35  
 Dibromofluoromethane  
 Concen: 53.066 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064372.D  
 Acq: 25 Nov 2019 20:49

Tgt Ion:113 Resp: 348442  
 Ion Ratio Lower Upper  
 113 100  
 111 104.5 81.5 122.3  
 192 23.6 18.8 28.2



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.972 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD064372.D

Acq: 25 Nov 2019 20:49

Instrument :  
MSVOA\_D  
ClientSampleId :

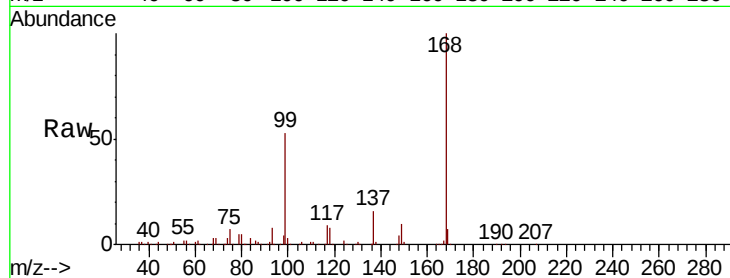
Tot Ion: 75 Resp: 52492

Ion Ratio Lower Upper

75 100

110 8.5 18.3 54.9#

77 0.2 25.0 37.6#

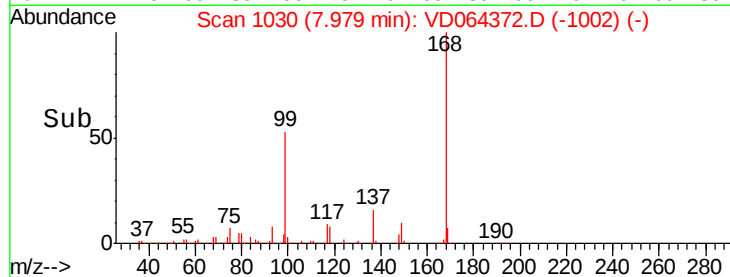


Abundance Ion 74.90 (74.60 to 75.60): VD064372.D (-1002) (-)

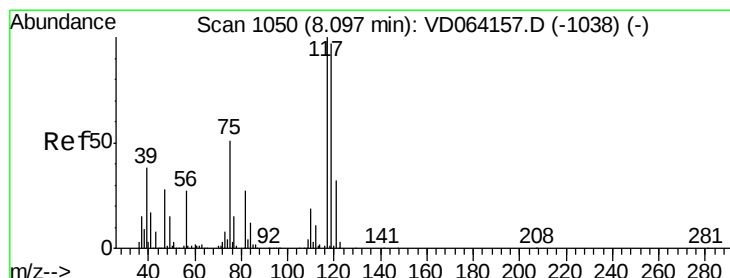
Ion 109.90 (109.60 to 110.60): VD064372.D (-1002) (-)

Ion 76.90 (76.60 to 77.60): VD064372.D (-1002) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.116 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064372.D

Acq: 25 Nov 2019 20:49

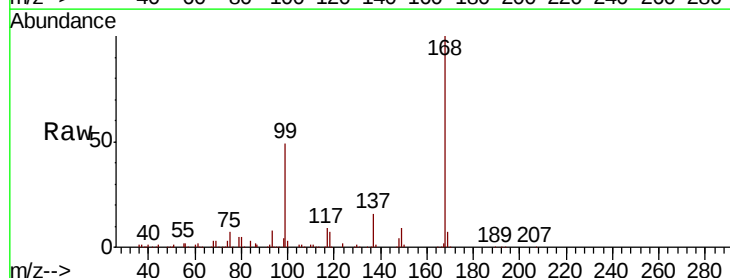
Tgt Ion: 117 Resp: 69093

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

121 0.0 25.5 38.3#

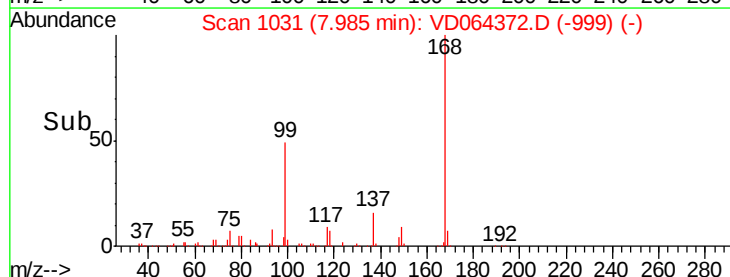


Abundance Ion 116.80 (116.50 to 117.50): VD064372.D (-999) (-)

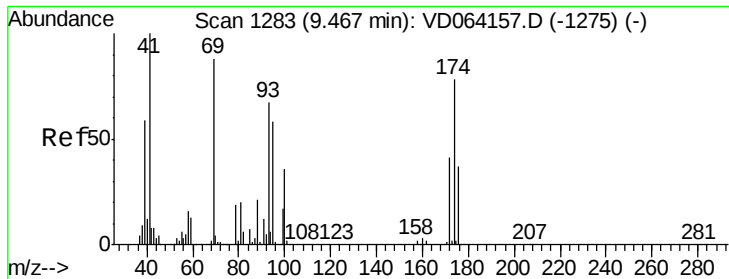
Ion 118.80 (118.50 to 119.50): VD064372.D (-999) (-)

Ion 120.80 (120.50 to 121.50): VD064372.D (-999) (-)

Time-->



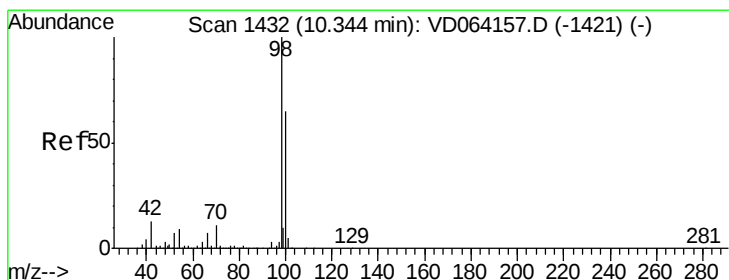
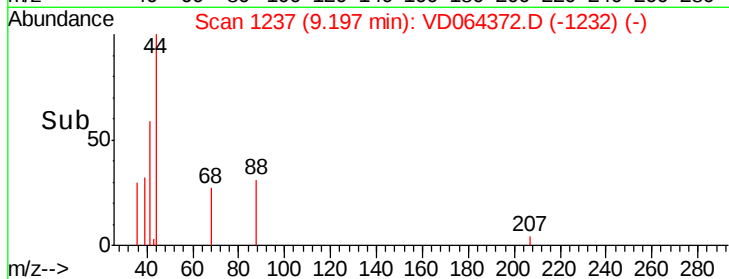
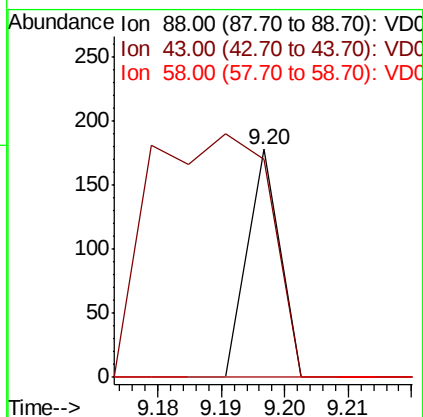
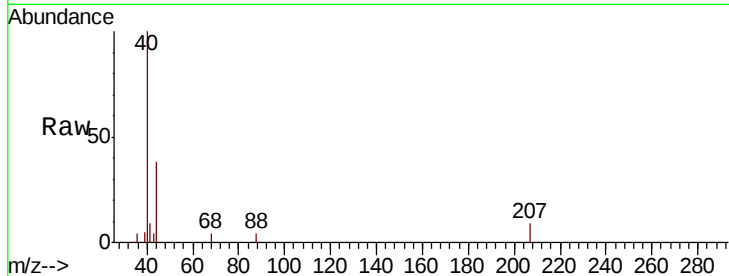
Time-->



#49  
 1,4-Dioxane  
 Concen: 1.395 ug/l  
 RT: 9.20 min Scan# 1237  
 Delta R.T. -0.27 min  
 Lab File: VD064372.D  
 Acq: 25 Nov 2019 20:49

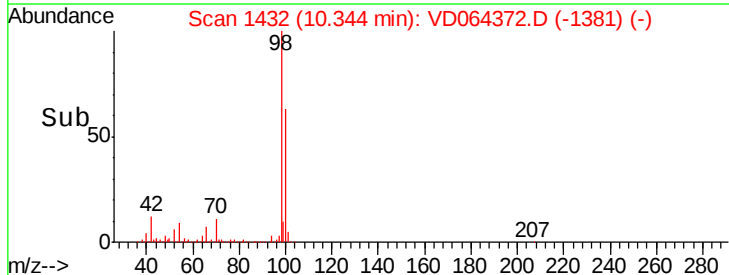
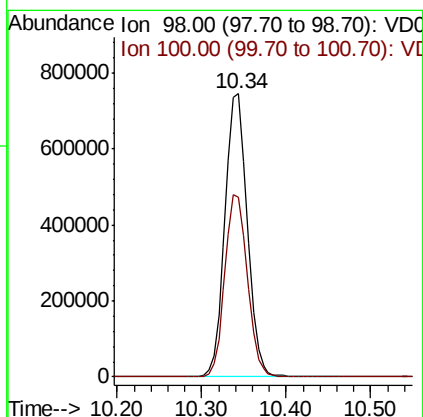
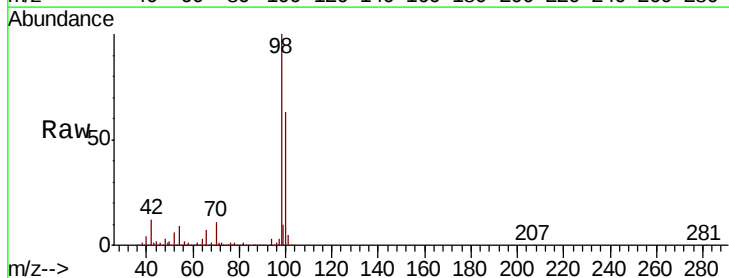
Instrument :  
 MSVOA\_D  
 ClientSampleId :

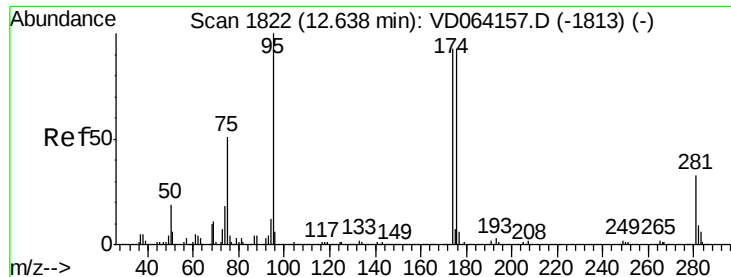
Tot Ion: 88 Resp: 63  
 Ion Ratio Lower Upper  
 88 100  
 43 201.6 29.8 44.8#  
 58 0.0 58.1 87.1#



#50  
 Toluene-d8  
 Concen: 54.956 ug/l  
 RT: 10.34 min Scan# 1432  
 Delta R.T. -0.00 min  
 Lab File: VD064372.D  
 Acq: 25 Nov 2019 20:49

Tgt Ion: 98 Resp: 1361298  
 Ion Ratio Lower Upper  
 98 100  
 100 65.1 52.6 78.8

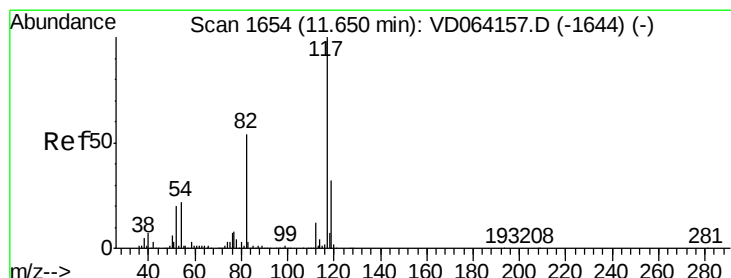
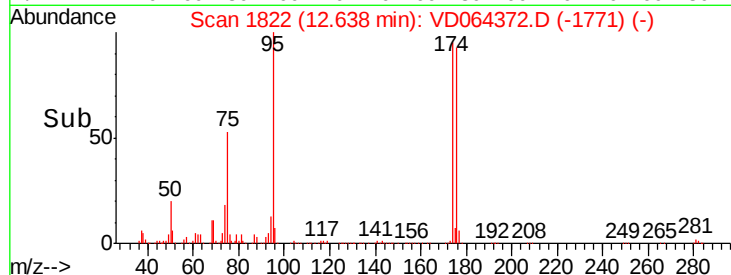
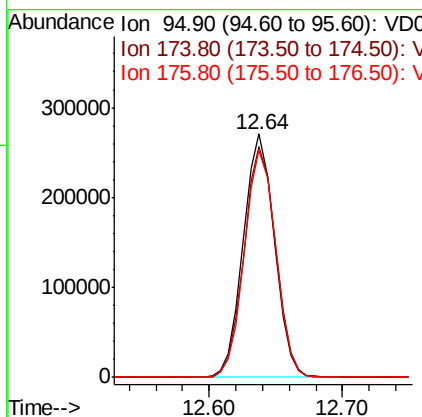
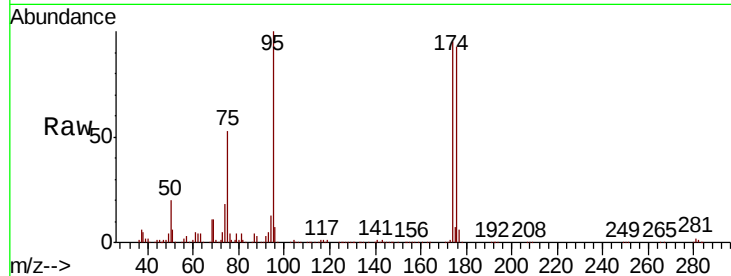




#62  
4-Bromofluorobenzene  
Concen: 50.977 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

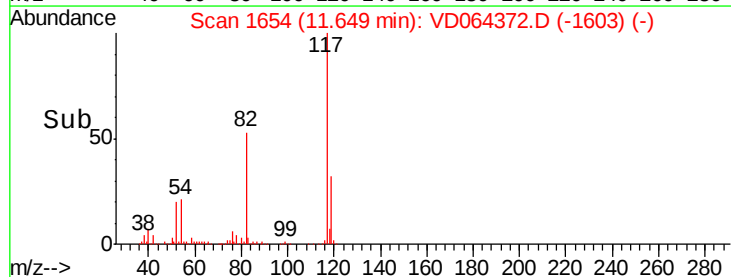
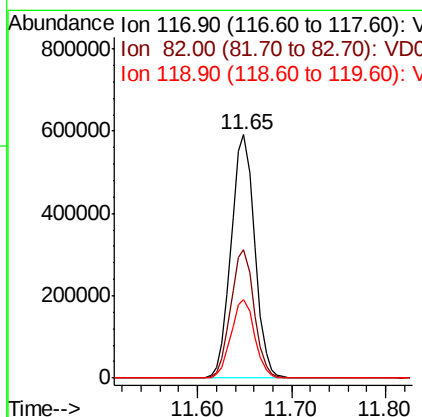
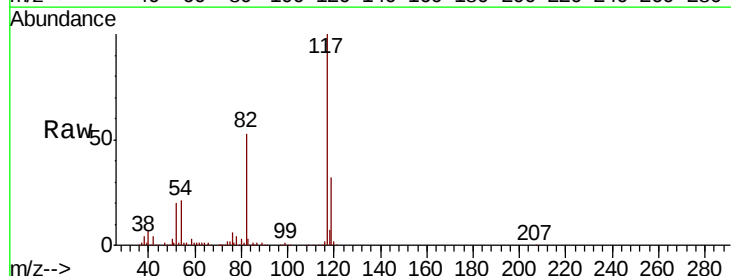
Instrument :  
MSVOA\_D  
ClientSampleId :

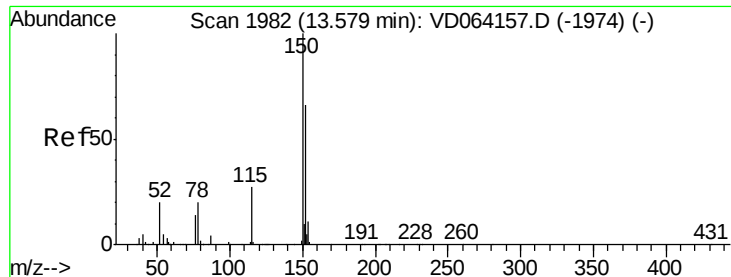
Tot Ion: 95 Resp: 437296  
Ion Ratio Lower Upper  
95 100  
174 95.6 0.0 183.6  
176 93.7 0.0 180.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

Tgt Ion: 117 Resp: 1033238  
Ion Ratio Lower Upper  
117 100  
82 52.6 42.8 64.2  
119 32.4 25.6 38.4



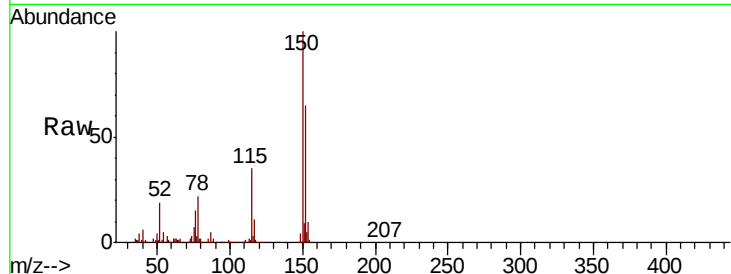


#72

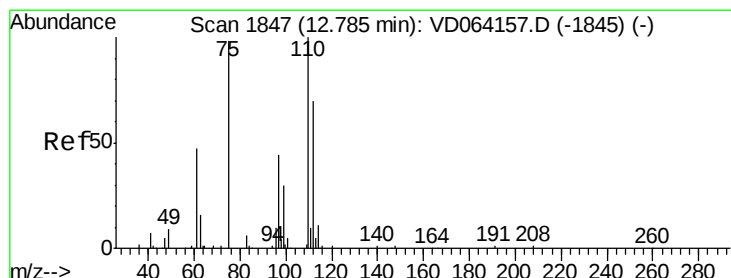
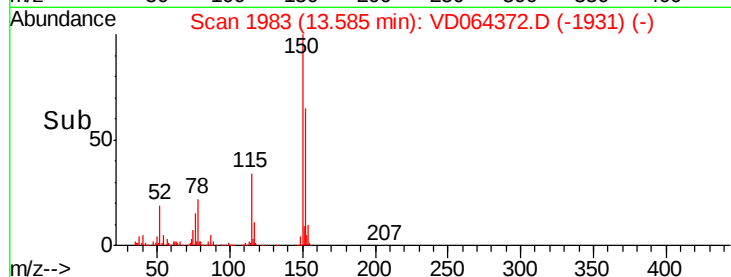
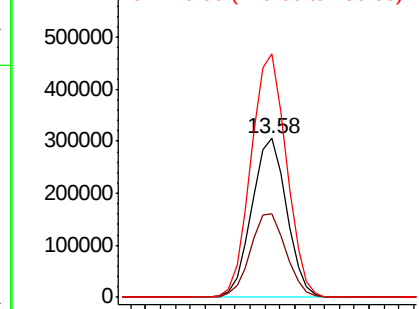
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.2  | 27.4  | 82.2  |
| 150     | 155.7 | 0.0   | 351.6 |



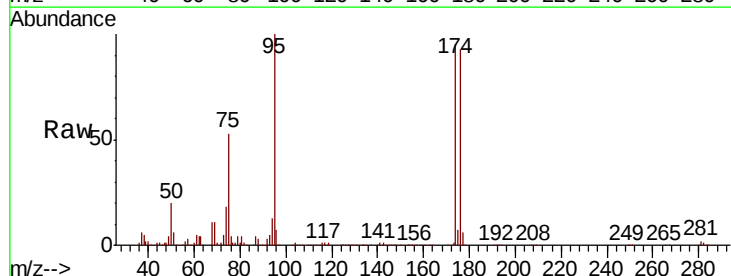
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



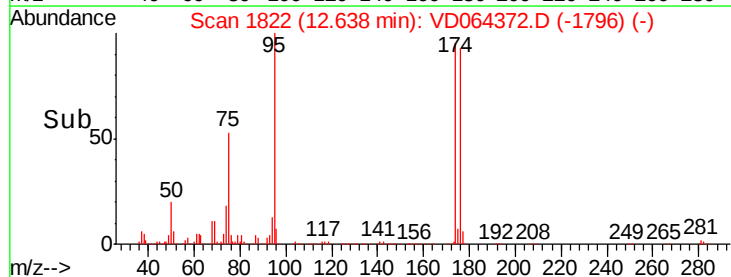
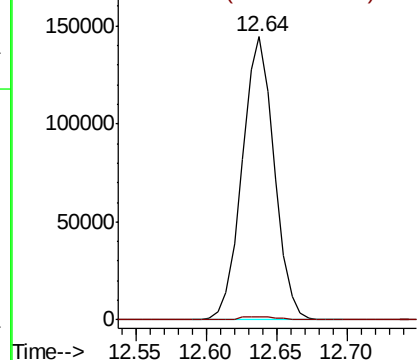
#76

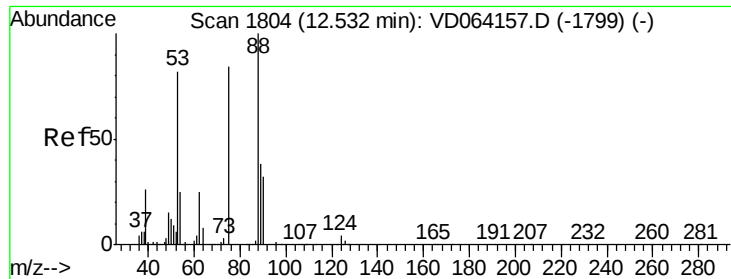
1,2,3-Trichloropropane  
Concen: 57.978 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD064372.D  
Acq: 25 Nov 2019 20:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.4   | 0.0   | 0.0#  |



Abundance Ion 74.90 (74.60 to 75.60): VDC  
Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 115.167 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064372.D

Acq: 25 Nov 2019 20:49

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 75 Resp: 229740

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

89 0.0 36.6 55.0#

