

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111119\  
 Data File : VD064179.D  
 Acq On : 11 Nov 2019 15:47  
 Operator : VA/SY  
 Sample : K5749-01  
 Misc : 5.04G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 12 02:48:19 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  | 344189   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 585972   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 604204   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 322201   | 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   | 218960   | 77.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 154.70% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 191717   | 57.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 114.00% |          |
| 50) Toluene-d8              | 10.34 | 98   | 711645   | 56.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 112.16% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 290589   | 66.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 132.26% |          |

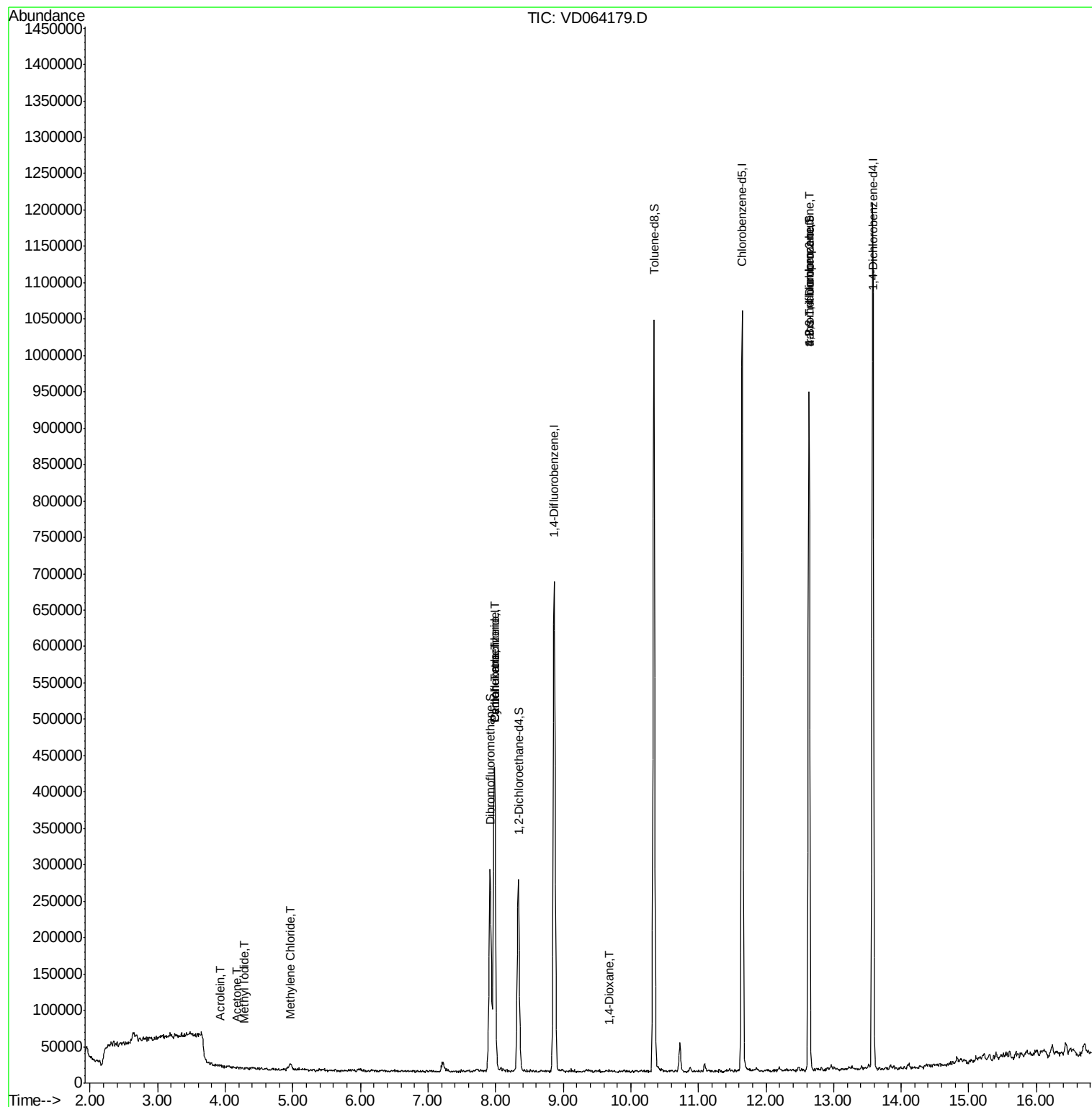
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.29  | 142  | 876      | 2.274   | ug/l # | 62     |
| 13) Acrolein                   | 3.93  | 56   | 443      | 2.649   | ug/l # | 15     |
| 16) Acetone                    | 4.17  | 43   | 1160     | 1.730   | ug/l   | 90     |
| 20) Methylene Chloride         | 4.97  | 84   | 6886     | 2.033   | ug/l   | 87     |
| 31) Cyclohexane                | 7.98  | 56   | 8362     | 1.505   | ug/l # | 9      |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 30578    | 5.284   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.68  | 88   | 75       | 3.242   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 155477   | 59.909  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 155477   | 119.002 | ug/l # | 10     |

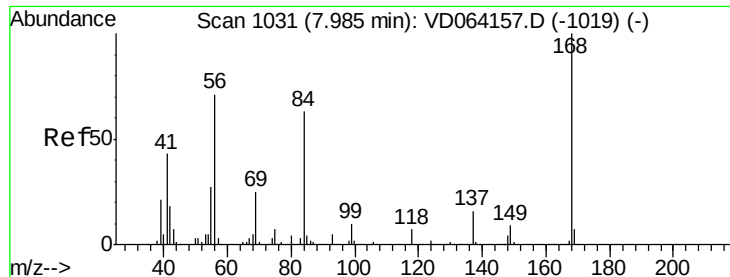
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1030

Delta R.T. -0.01 min

Lab File: VD064179.D

Acq: 11 Nov 2019 15:47

Instrument :

MSVOA\_D

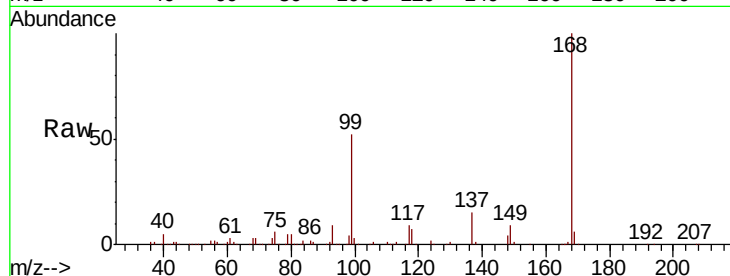
ClientSampleId :

Tot Ion:168 Resp: 344189

Ion Ratio Lower Upper

168 100

99 51.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

150000

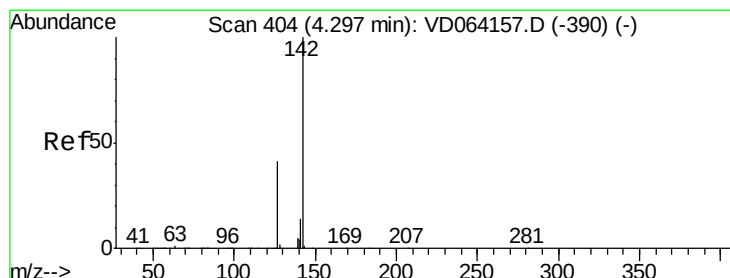
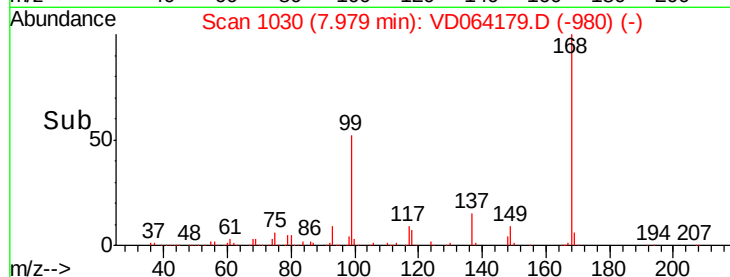
100000

50000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 2.274 ug/l

RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD064179.D

Acq: 11 Nov 2019 15:47

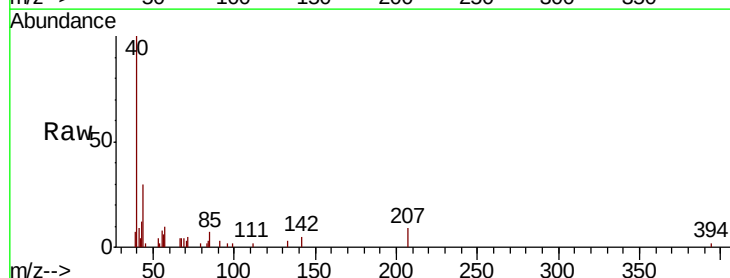
Tgt Ion:142 Resp: 876

Ion Ratio Lower Upper

142 100

127 18.0 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

4.29

600

500

400

300

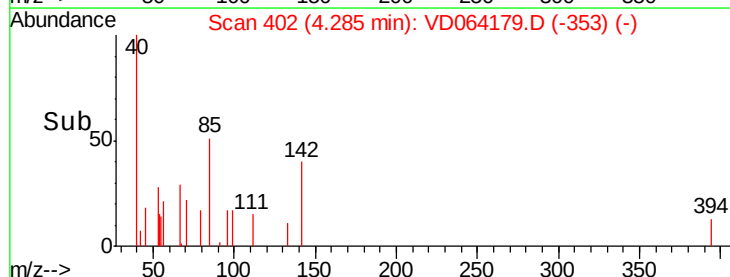
200

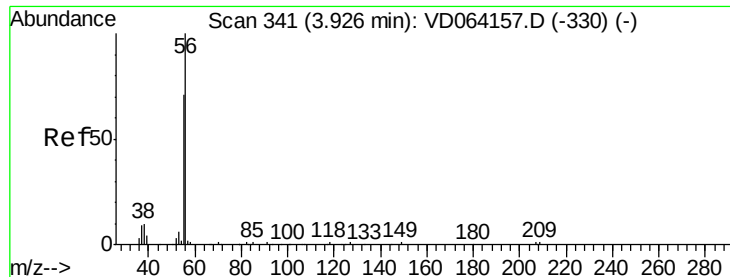
100

0

4.25 4.30

Time-->





#13

Acrolein

Concen: 2.649 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD064179.D

Acq: 11 Nov 2019 15:47

Instrument :

MSVOA\_D

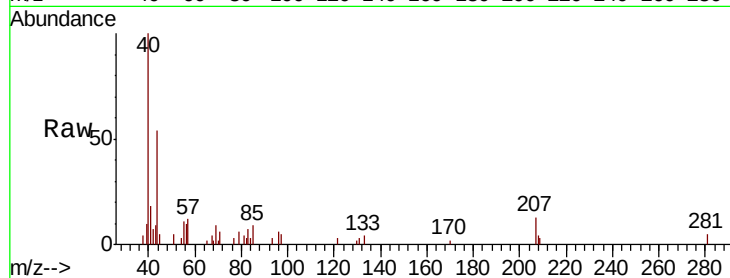
ClientSampleId :

Tot Ion: 56 Resp: 443

Ion Ratio Lower Upper

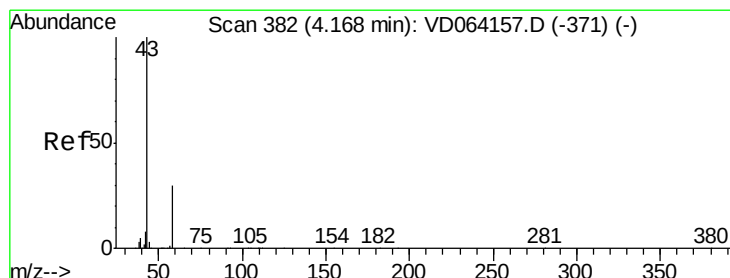
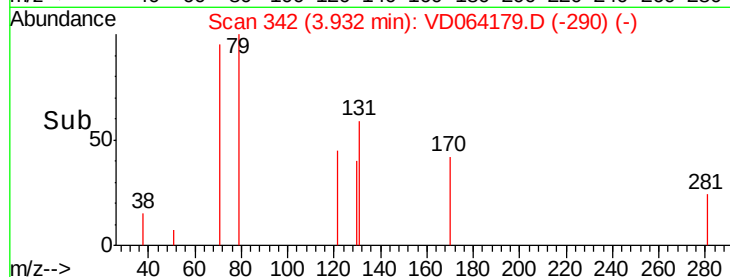
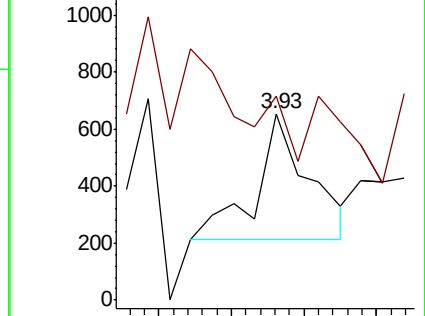
56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 1.730 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064179.D

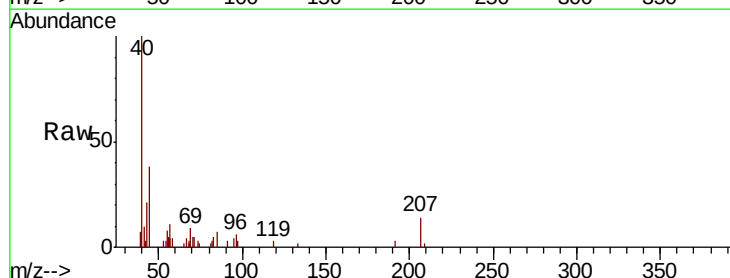
Acq: 11 Nov 2019 15:47

Tgt Ion: 43 Resp: 1160

Ion Ratio Lower Upper

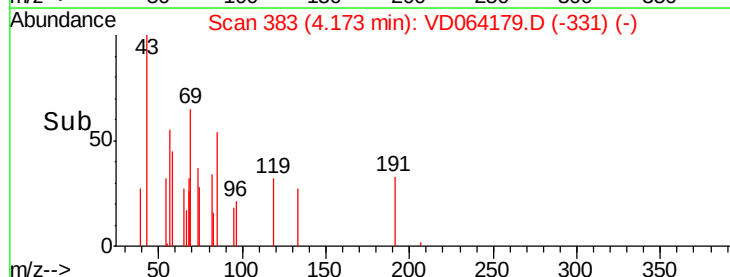
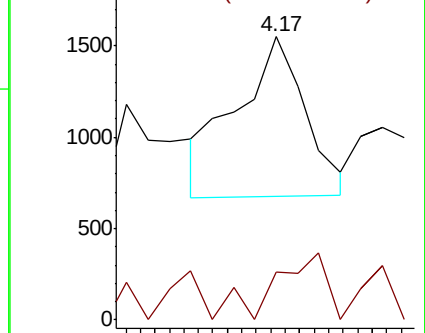
43 100

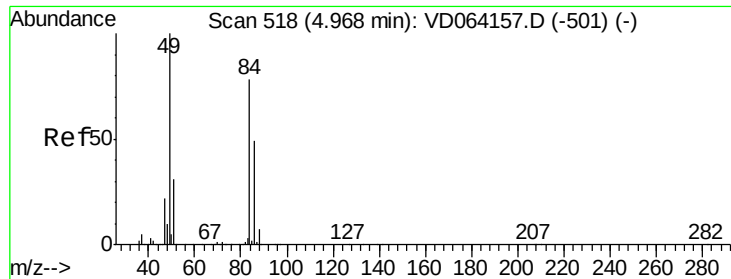
58 35.7 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

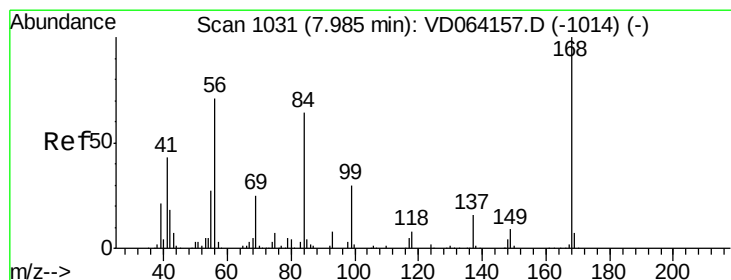
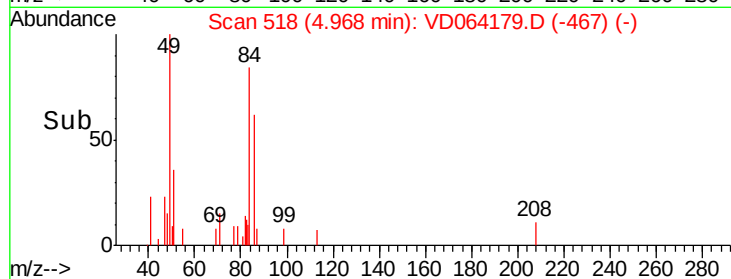
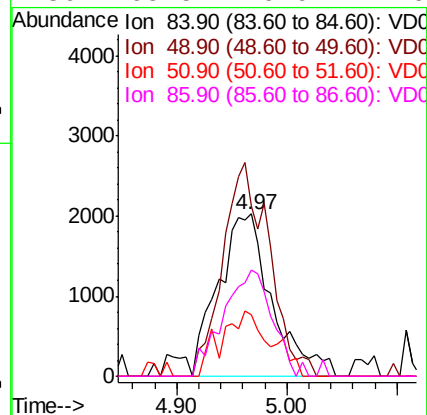
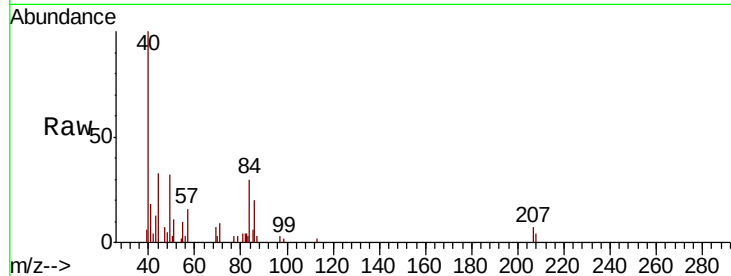




#20  
Methylene Chloride  
Concen: 2.033 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD064179.D  
Acq: 11 Nov 2019 15:47

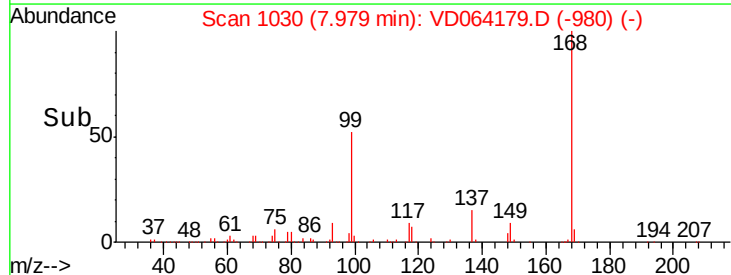
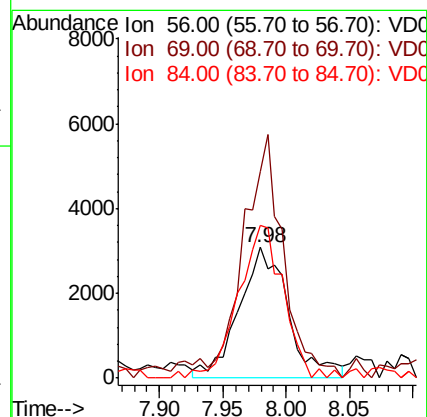
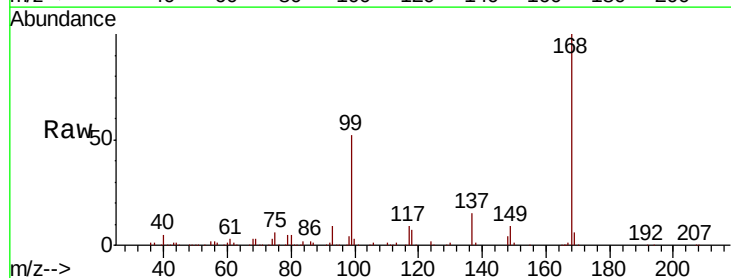
Instrument :  
MSVOA\_D  
ClientSampleId :

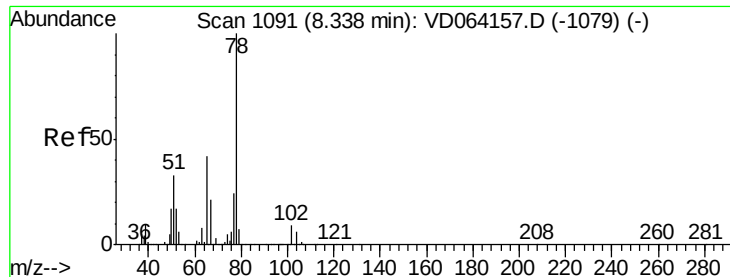
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 6886  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 105.0 | 102.1 | 153.1 |
| 51       | 37.7  | 32.2  | 48.2  |
| 86       | 65.5  | 49.9  | 74.9  |



#31  
Cyclohexane  
Concen: 1.505 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064179.D  
Acq: 11 Nov 2019 15:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8362   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 168.2 | 28.2  | 42.4#  |
| 84       | 125.1 | 71.8  | 107.6# |

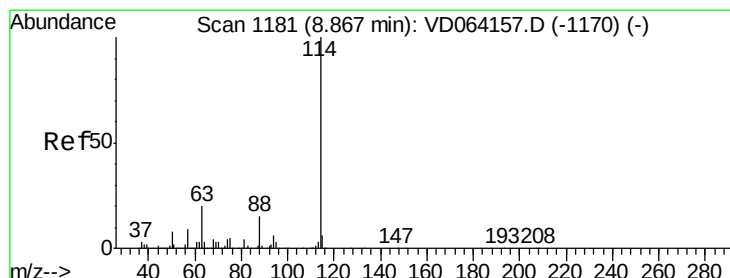
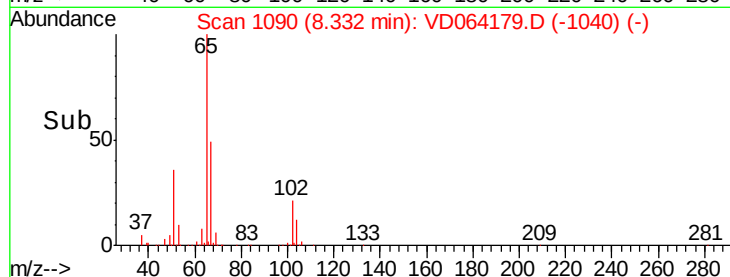
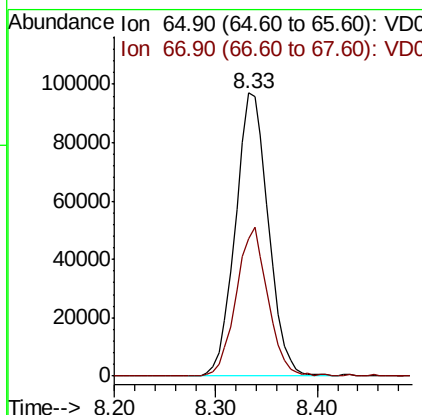
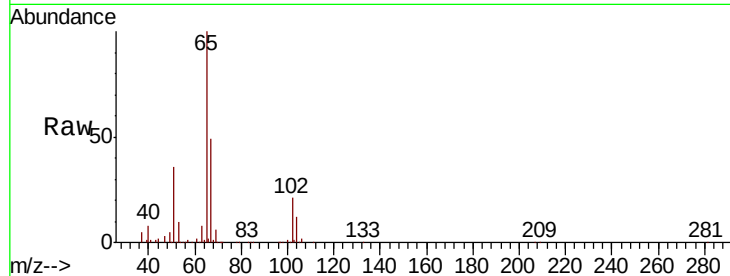




#33  
 1,2-Dichloroethane-d4  
 Concen: 77.350 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD064179.D  
 Acq: 11 Nov 2019 15:47

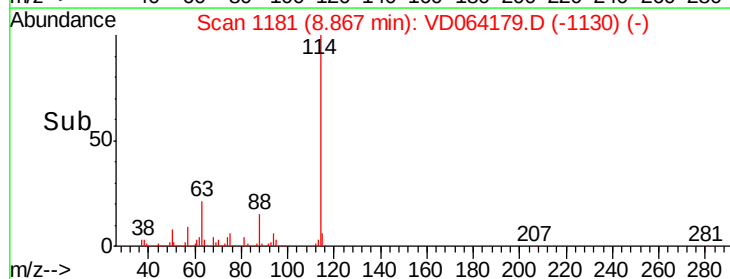
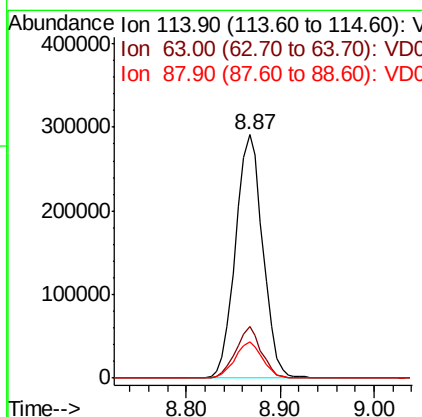
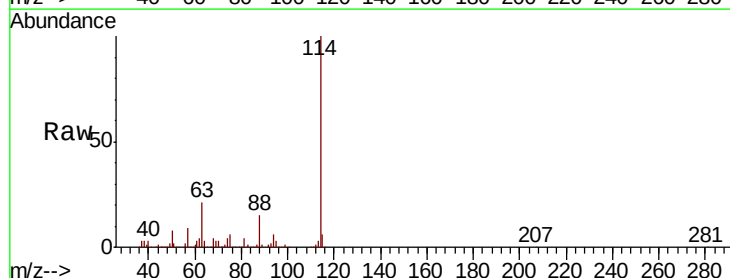
Instrument :  
 MSVOA\_D  
 ClientSampleId :

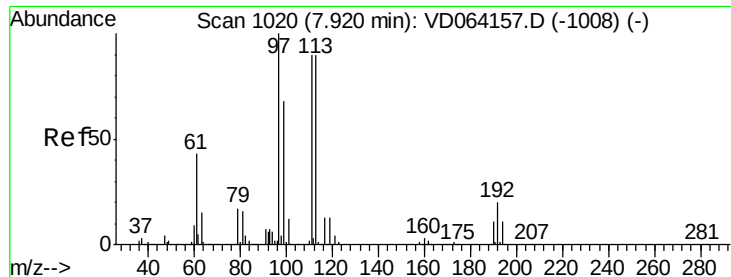
Tot Ion: 65 Resp: 218960  
 Ion Ratio Lower Upper  
 65 100  
 67 50.7 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064179.D  
 Acq: 11 Nov 2019 15:47

Tgt Ion: 114 Resp: 585972  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 0.0 40.0  
 88 14.8 0.0 30.2

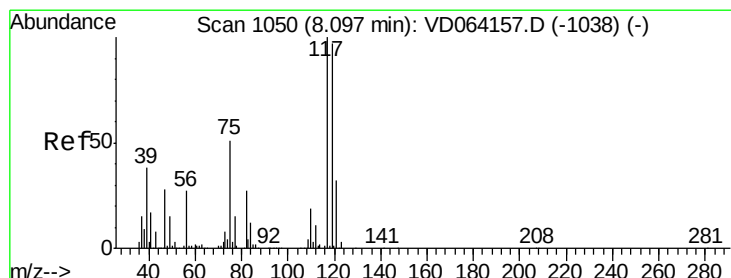
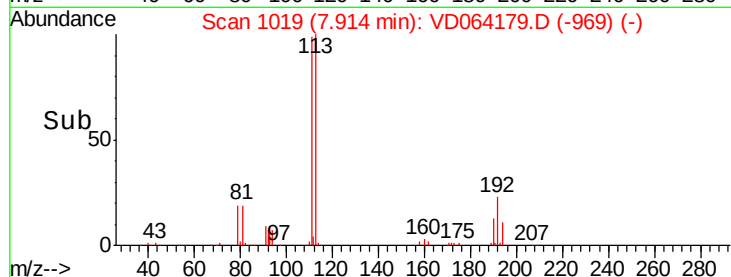
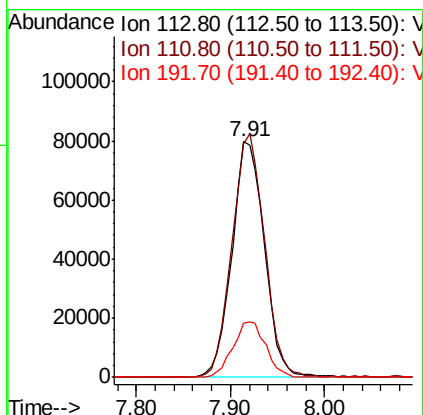
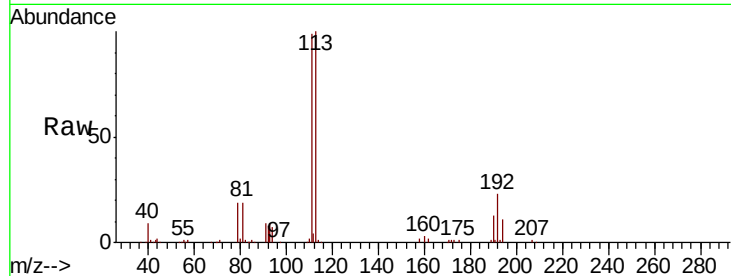




#35  
 Dibromofluoromethane  
 Concen: 56.998 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD064179.D  
 Acq: 11 Nov 2019 15:47

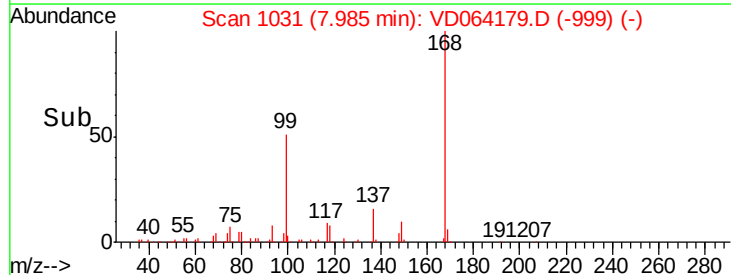
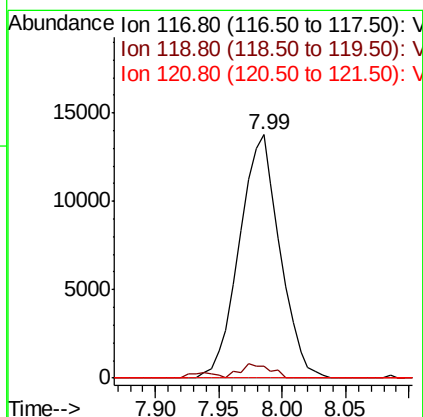
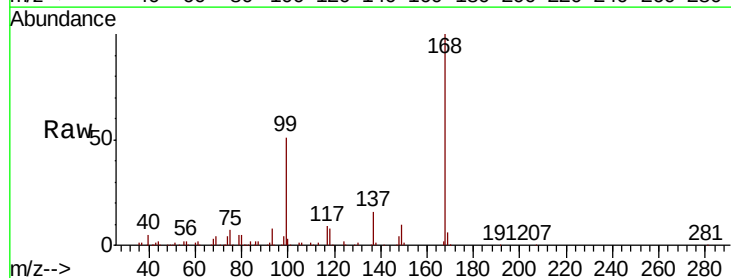
Instrument :  
 MSVOA\_D  
 ClientSampleId :

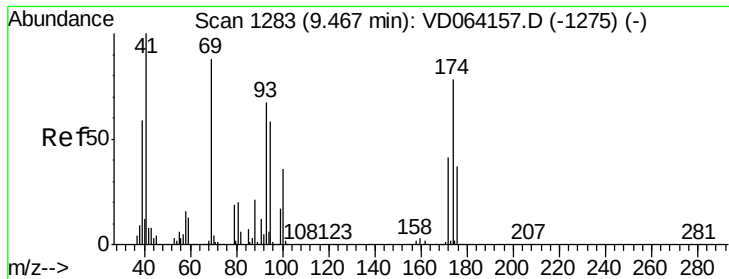
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 81.5  | 122.3 |
| 192     | 23.7  | 18.8  | 28.2  |



#38  
 Carbon Tetrachloride  
 Concen: 5.284 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.11 min  
 Lab File: VD064179.D  
 Acq: 11 Nov 2019 15:47

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.9   | 77.2  | 115.8# |
| 121     | 0.0   | 25.5  | 38.3#  |





#49

1,4-Dioxane

Concen: 3.242 ug/l

RT: 9.68 min Scan# 1320

Delta R.T. 0.22 min

Lab File: VD064179.D

Acq: 11 Nov 2019 15:47

Instrument :  
MSVOA\_D  
ClientSampleId :

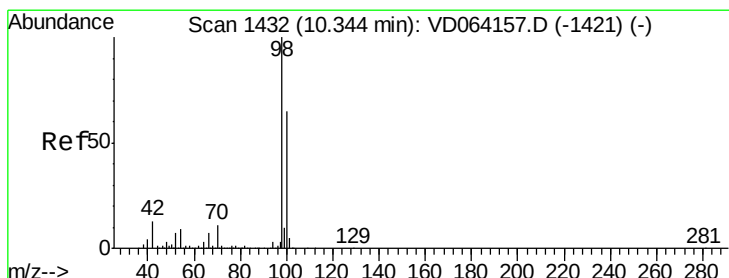
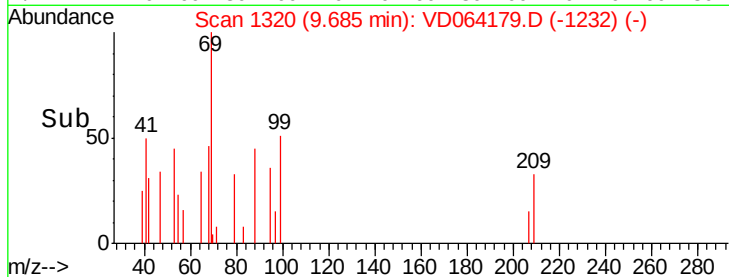
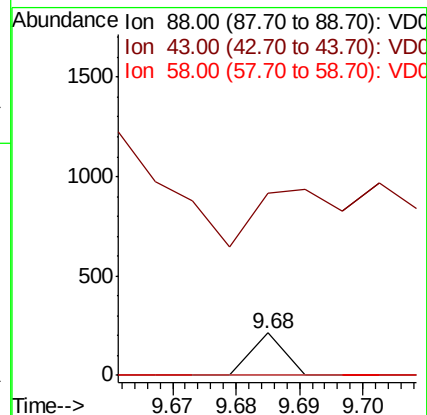
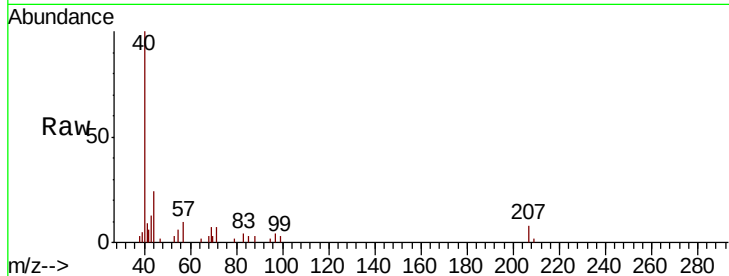
Tot Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 350.7 29.8 44.8#

58 0.0 58.1 87.1#



#50

Toluene-d8

Concen: 56.084 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064179.D

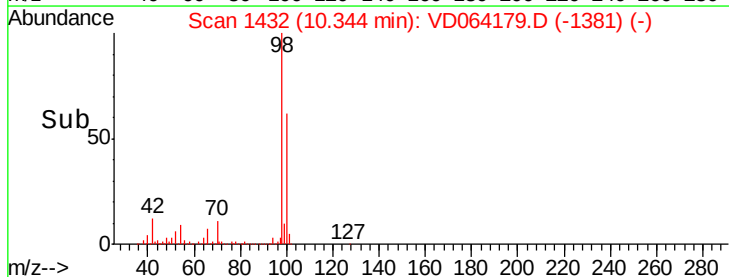
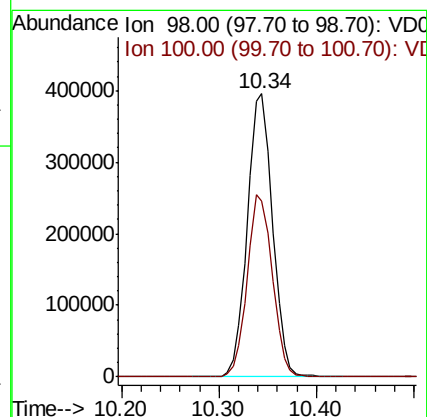
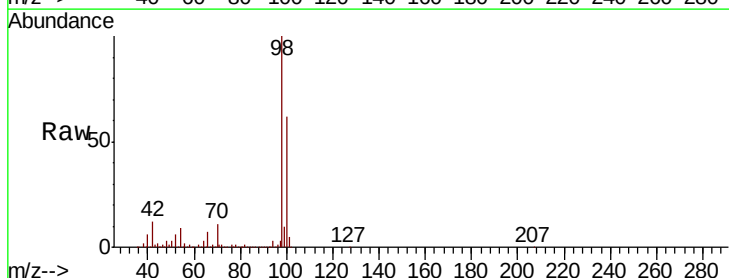
Acq: 11 Nov 2019 15:47

Tgt Ion: 98 Resp: 711645

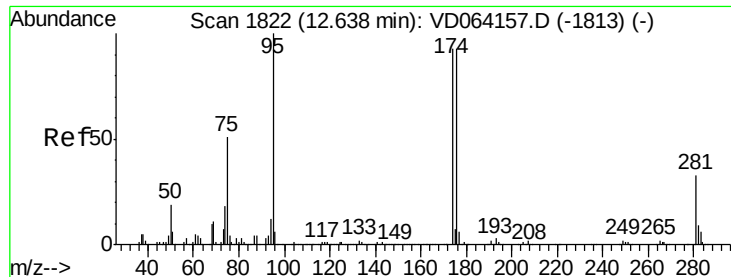
Ion Ratio Lower Upper

98 100

100 64.1 52.6 78.8



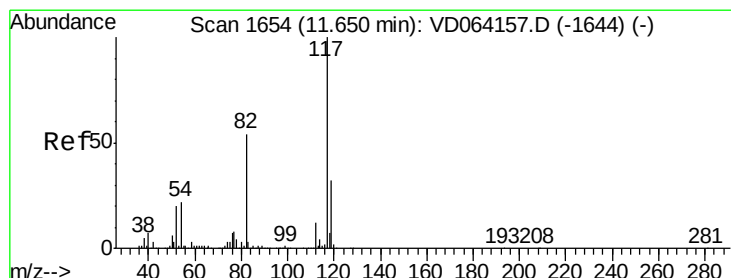
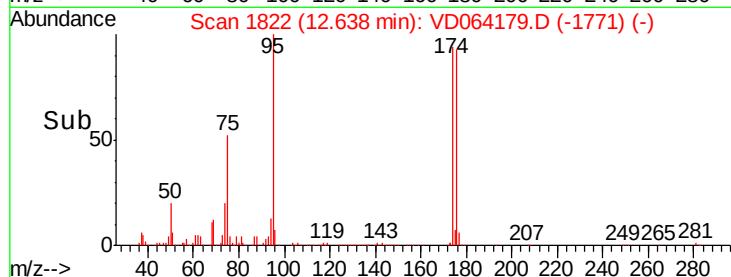
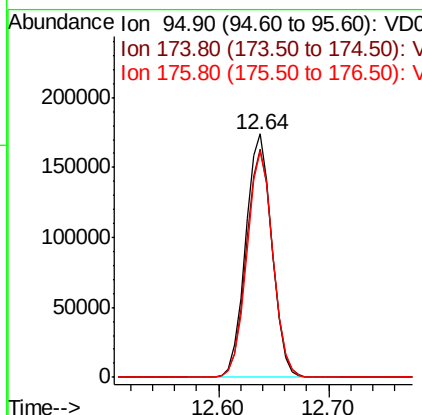
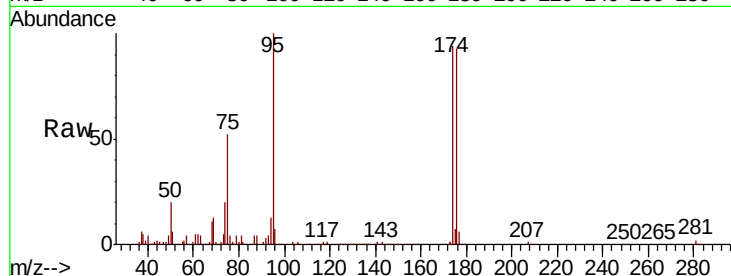




#62  
4-Bromofluorobenzene  
Concen: 66.130 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064179.D  
Acq: 11 Nov 2019 15:47

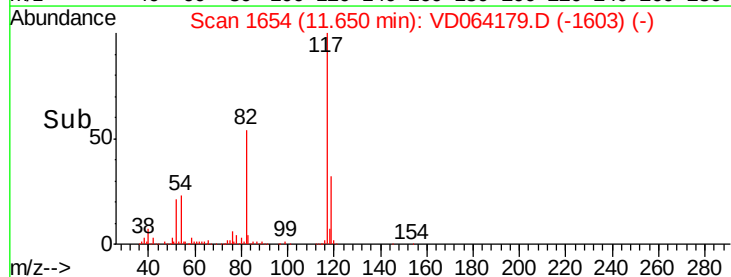
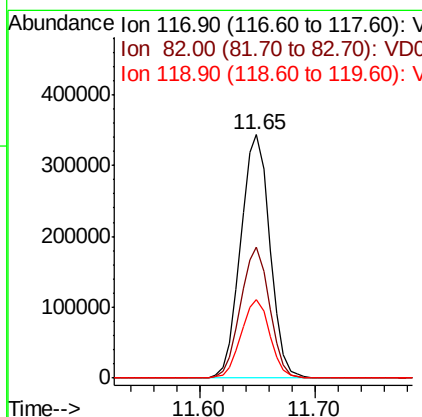
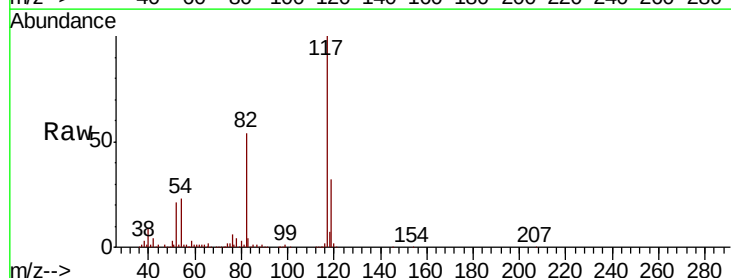
Instrument :  
MSVOA\_D  
ClientSampleId :

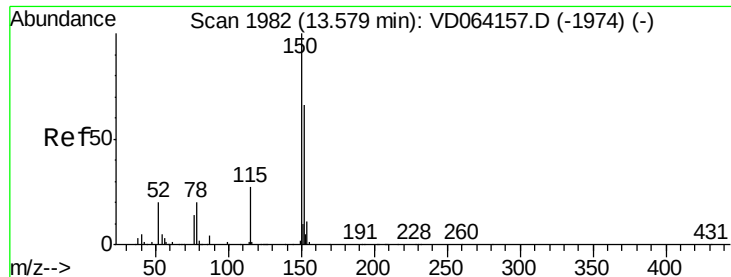
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 93.4  | 0.0   | 183.6 |
| 176     | 91.8  | 0.0   | 180.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064179.D  
Acq: 11 Nov 2019 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.9  | 42.8  | 64.2  |
| 119     | 32.4  | 25.6  | 38.4  |



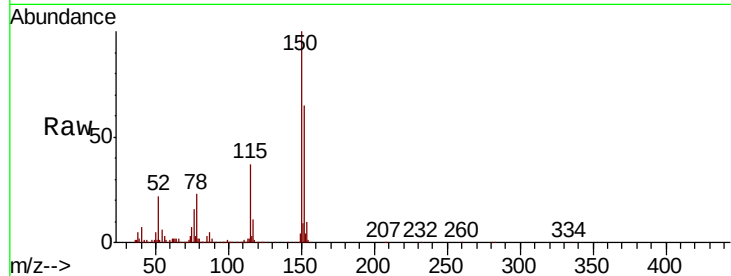


#72

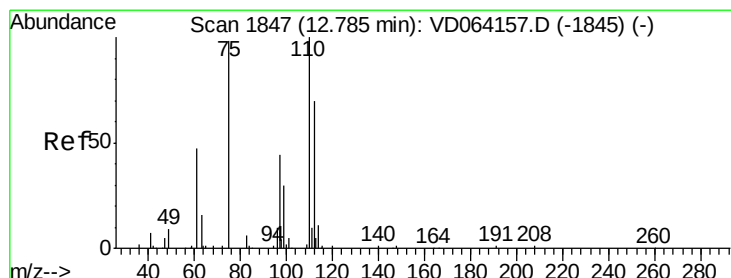
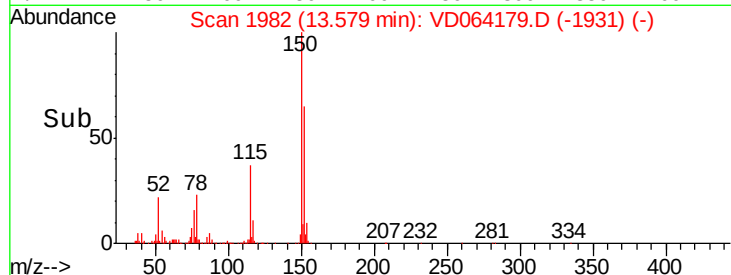
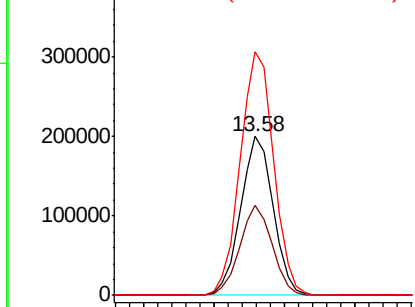
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD064179.D  
Acq: 11 Nov 2019 15:47

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.5  | 27.4  | 82.2  |
| 150     | 157.8 | 0.0   | 351.6 |



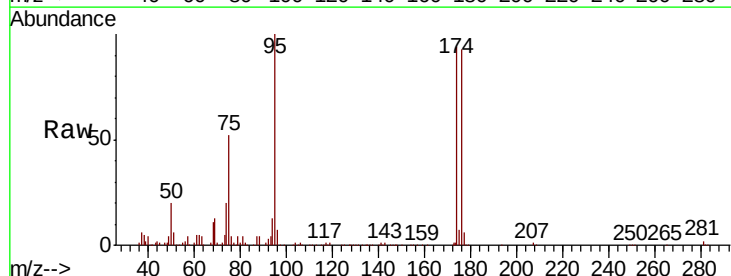
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



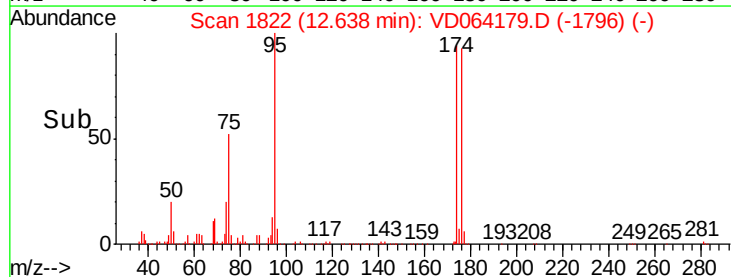
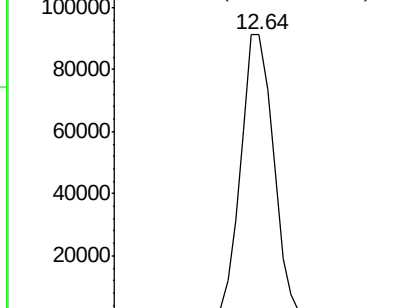
#76

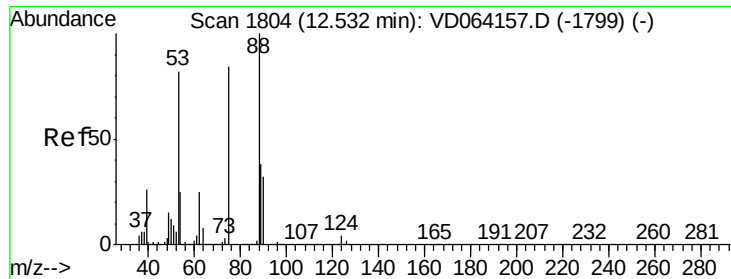
1,2,3-Trichloropropane  
Concen: 59.909 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD064179.D  
Acq: 11 Nov 2019 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.7   | 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: 119.002 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064179.D

Acq: 11 Nov 2019 15:47

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 75 Resp: 155477

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.0 36.6 55.0#

