

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101220\  
 Data File : VD067234.D  
 Acq On : 12 Oct 2020 15:53  
 Operator : VA/SY  
 Sample : L4369-01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HD-1

Quant Time: Oct 13 00:16:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 12306    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 19848    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 18082    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 8106     | 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   | 9707     | 81.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 163.78% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 6057     | 46.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.22%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 21155    | 44.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.36%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 7613     | 47.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.72%  |          |

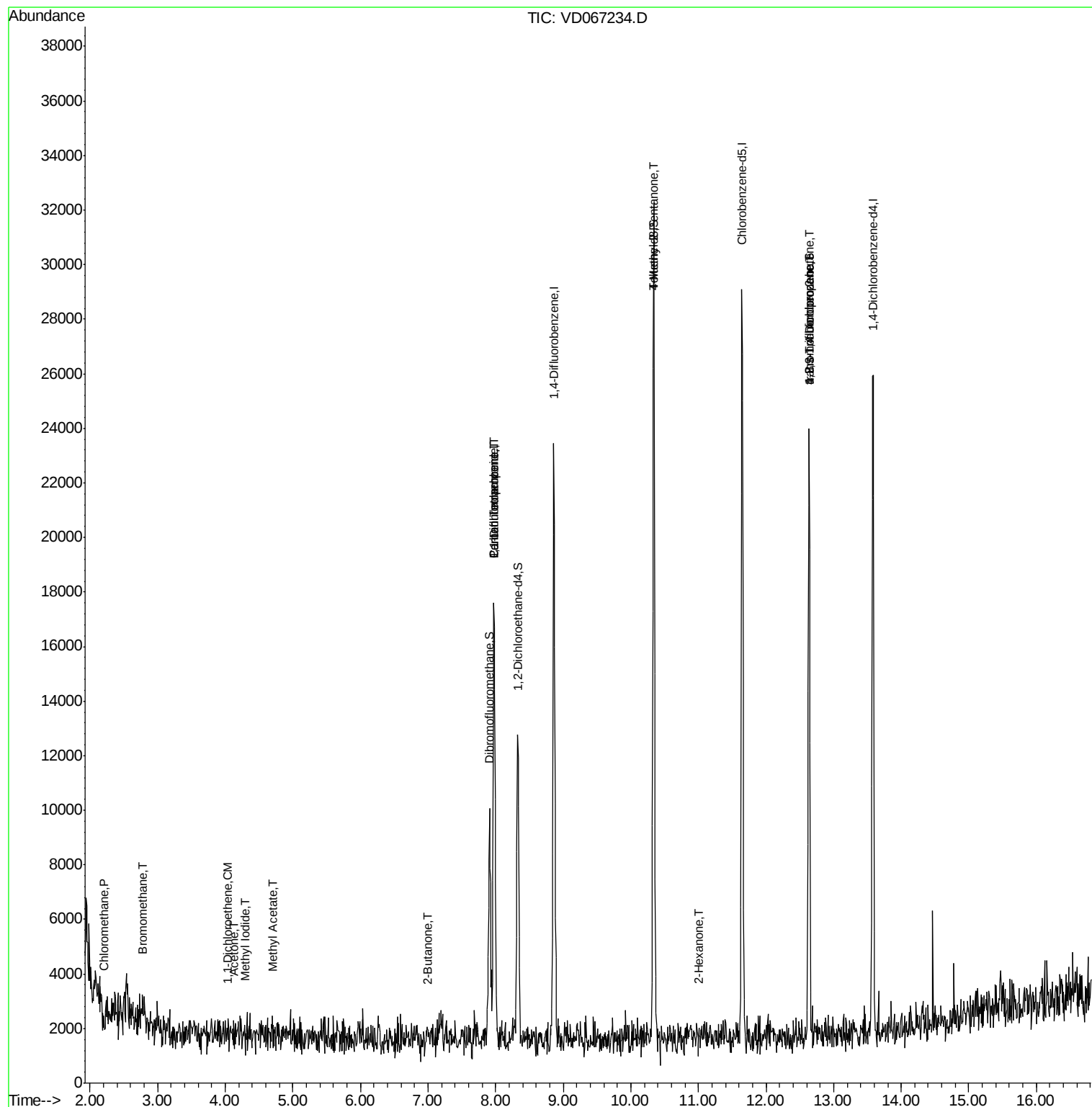
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.20  | 50   | 277      | 2.826     | ug/l # | 43     |
| 5) Bromomethane                | 2.79  | 94   | 1060     | 13.580    | ug/l   | 96     |
| 10) Methyl Iodide              | 4.29  | 142  | 157      | 1.309     | ug/l # | 39     |
| 12) 1,1-Dichloroethene         | 4.03  | 96   | 153      | 1.319     | ug/l # | 1      |
| 16) Acetone                    | 4.13  | 43   | 77       | 4.256     | ug/l # | 42     |
| 18) Methyl Acetate             | 4.69  | 43   | 76       | 1.671     | ug/l # | 48     |
| 20) Methylene Chloride         | 4.97  | 84   | 237      | Below Cal | #      | 10     |
| 25) 2-Butanone                 | 7.00  | 43   | 59       | 2.300     | ug/l # | 46     |
| 26) 2,2-Dichloropropane        | 7.10  | 77   | 58       | Below Cal | #      | 53     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 653      | 3.530     | ug/l # | 41     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 1292     | 6.454     | ug/l # | 11     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 80       | 1.360     | ug/l # | 1      |
| 59) 2-Hexanone                 | 11.01 | 43   | 53       | 1.350     | ug/l # | 23     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 3759     | 53.239    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 3759     | 132.732   | ug/l # | 12     |

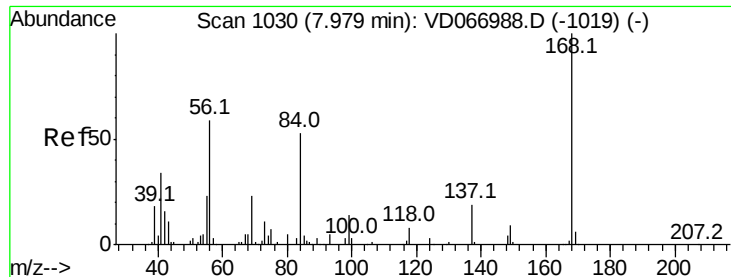
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101220\  
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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HD-1

Quant Time: Oct 13 00:16:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampled :

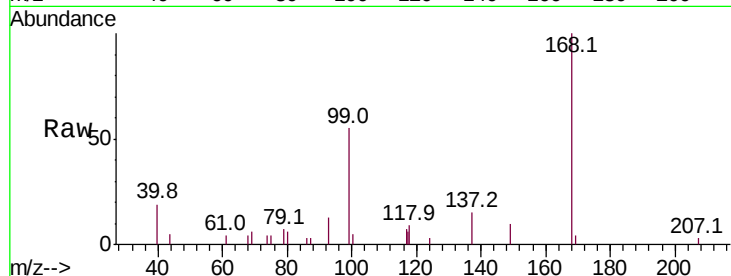
HD-1

Tot Ion:168 Resp: 12306

Ion Ratio Lower Upper

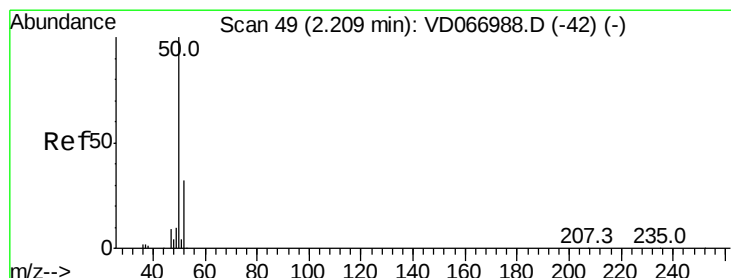
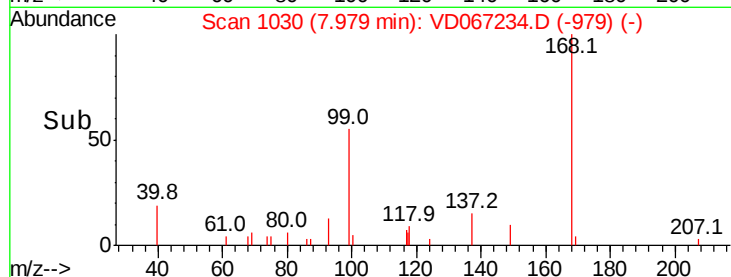
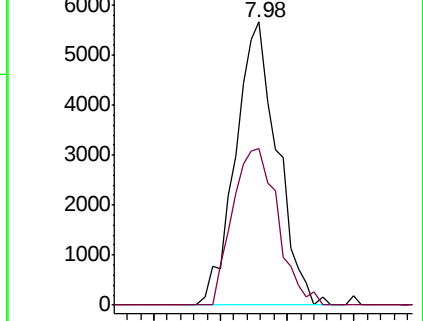
168 100

99 55.5 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 2.826 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD067234.D

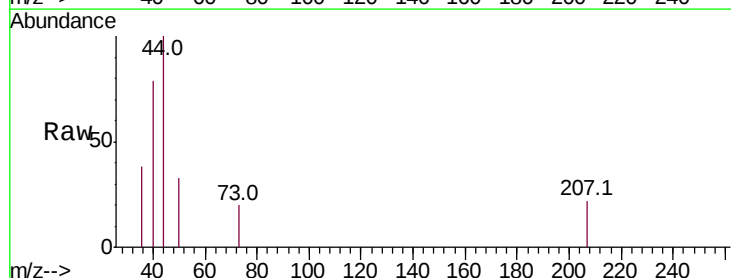
Acq: 12 Oct 2020 15:53

Tgt Ion: 50 Resp: 277

Ion Ratio Lower Upper

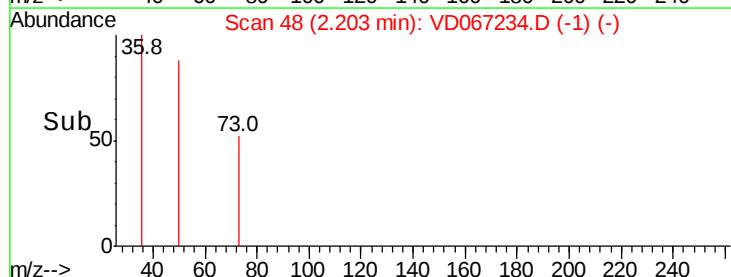
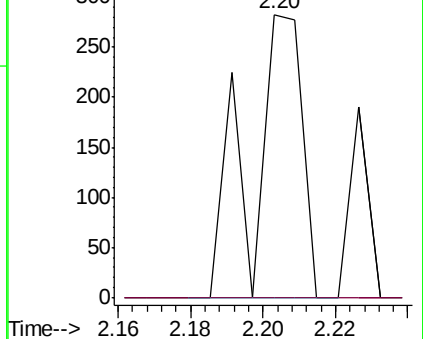
50 100

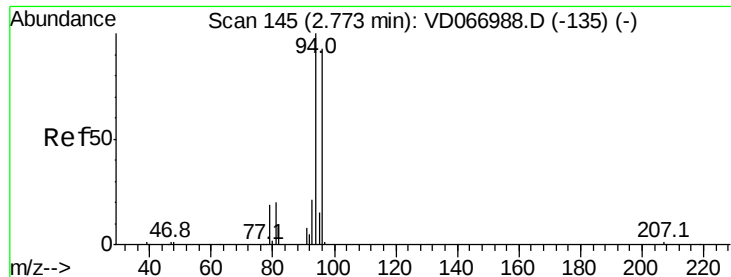
52 0.0 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 13.580 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampled :

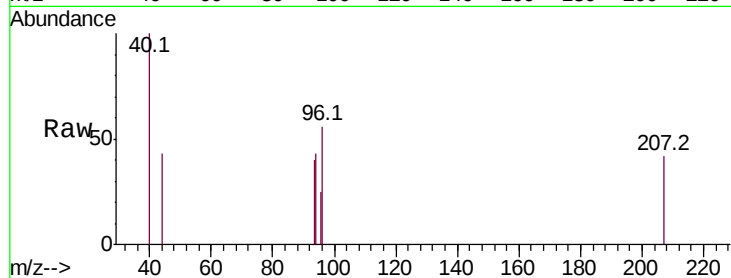
HD-1

Tot Ion: 94 Resp: 1060

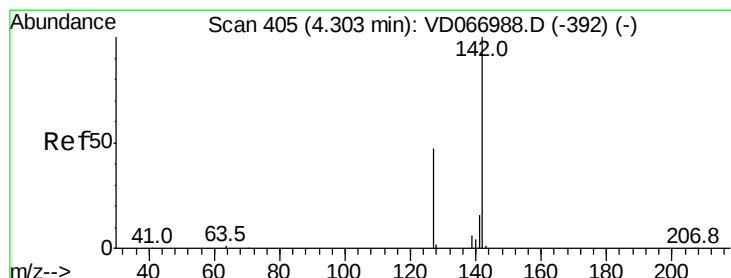
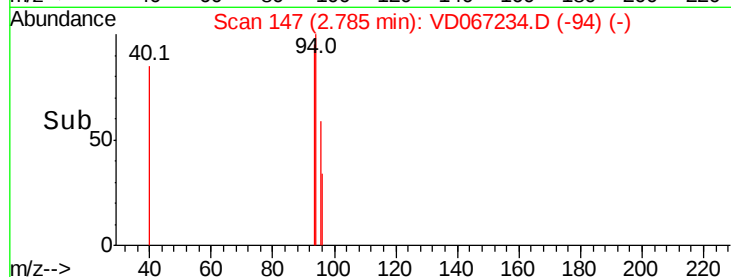
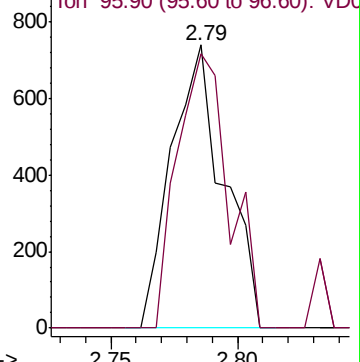
Ion Ratio Lower Upper

94 100

96 97.2 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC



#10

Methyl Iodide

Concen: 1.309 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

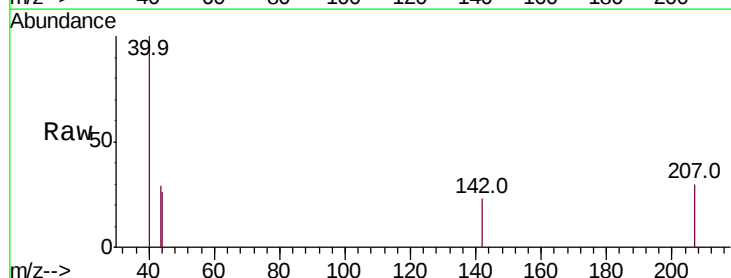
Tgt Ion: 142 Resp: 157

Ion Ratio Lower Upper

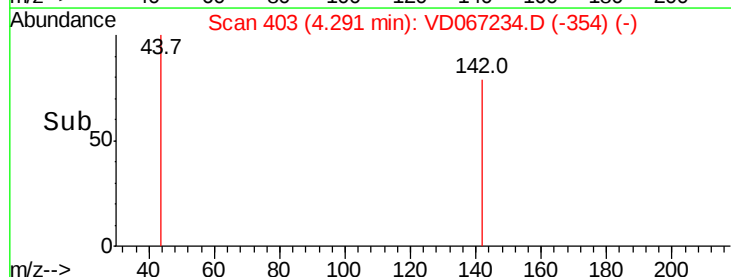
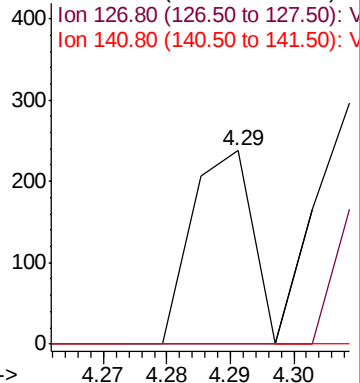
142 100

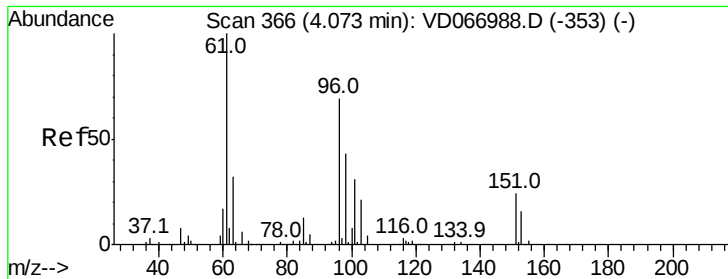
127 0.0 36.3 54.5#

141 0.0 12.0 18.0#



Abundance Ion 141.80 (141.50 to 142.50): V





#12

1,1-Dichloroethene

Concen: 1.319 ug/l

RT: 4.03 min Scan# 358

Delta R.T. -0.05 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampleId :

HD-1

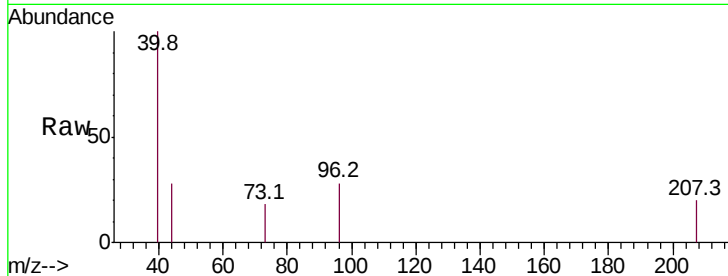
Tot Ion: 96 Resp: 153

Ion Ratio Lower Upper

96 100

61 0.0 116.4 174.6#

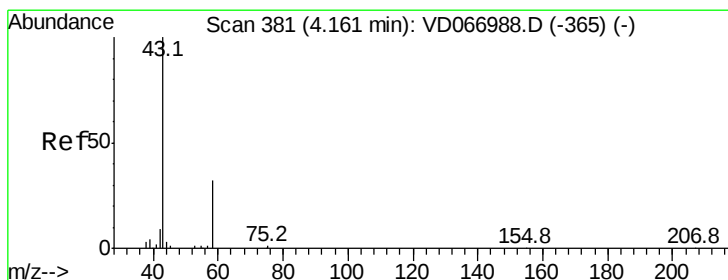
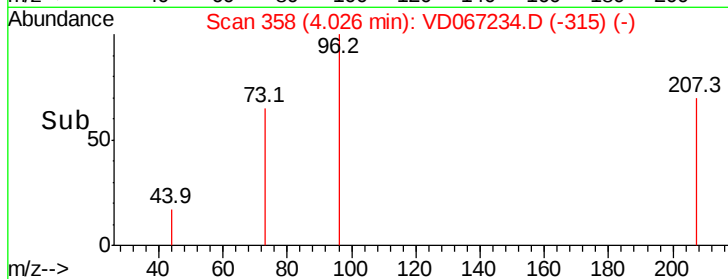
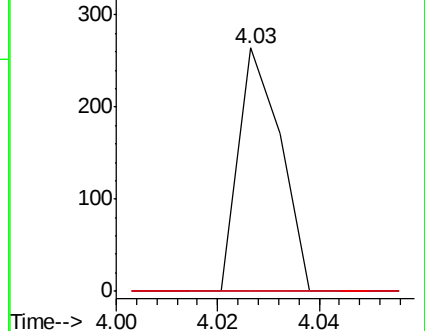
98 0.0 49.9 74.9#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#16

Acetone

Concen: 4.256 ug/l

RT: 4.13 min Scan# 375

Delta R.T. -0.04 min

Lab File: VD067234.D

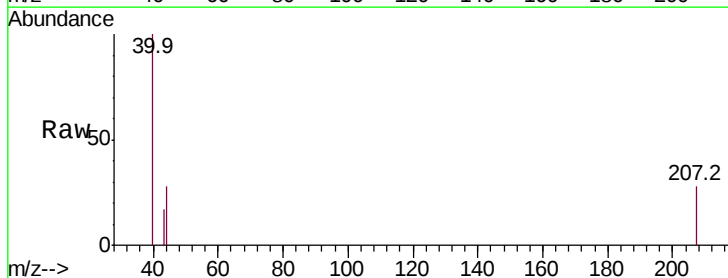
Acq: 12 Oct 2020 15:53

Tgt Ion: 43 Resp: 77

Ion Ratio Lower Upper

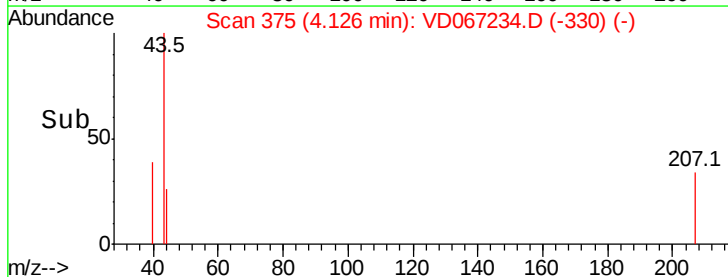
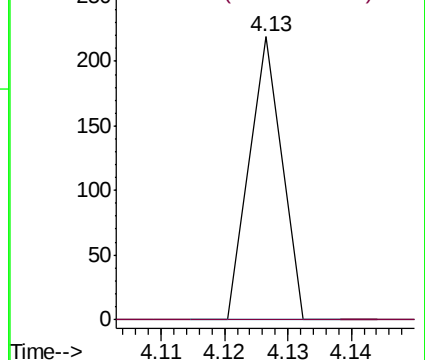
43 100

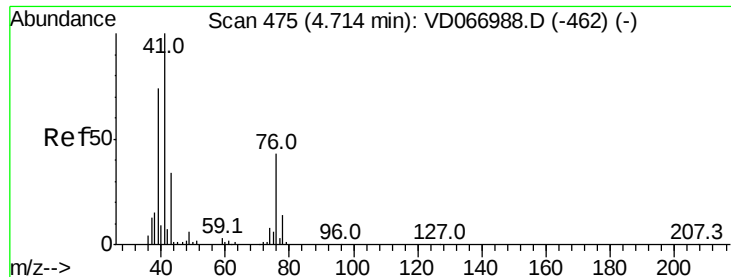
58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

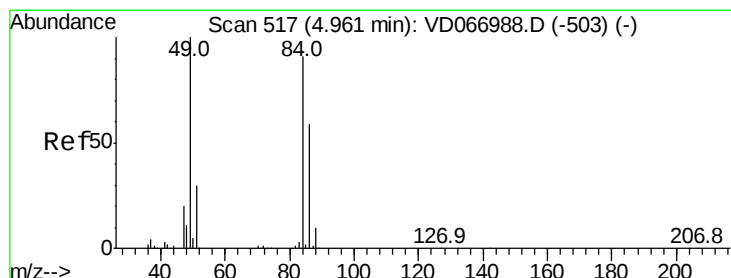
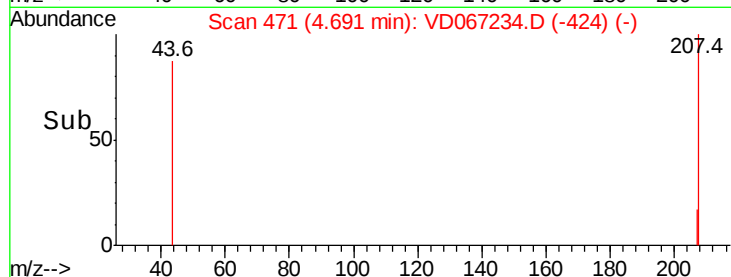
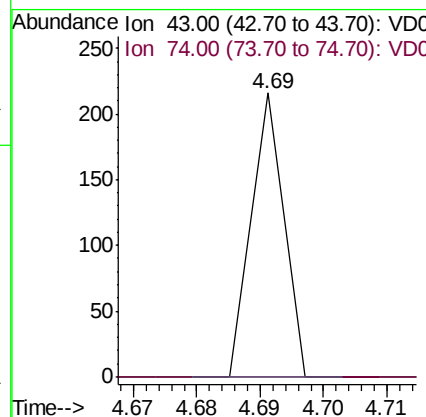
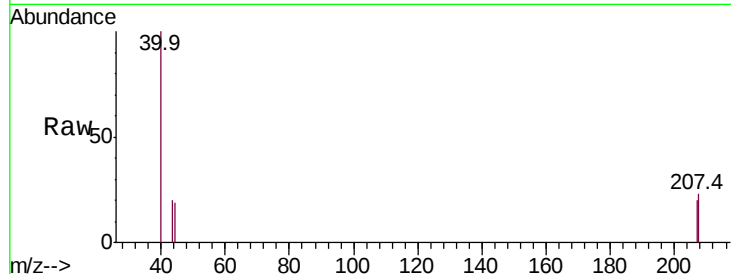




#18  
Methyl Acetate  
Concen: 1.671 ug/l  
RT: 4.69 min Scan# 471  
Delta R.T. -0.02 min  
Lab File: VD067234.D  
Acq: 12 Oct 2020 15:53

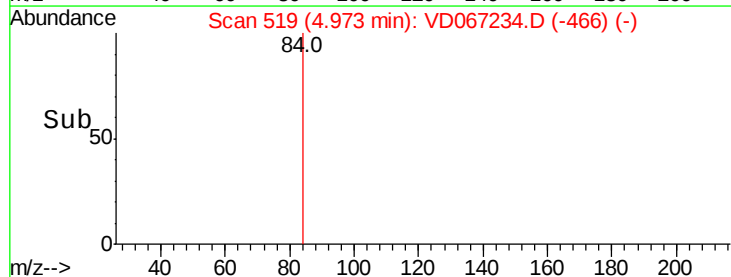
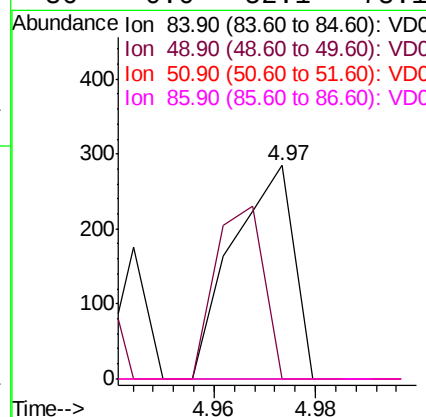
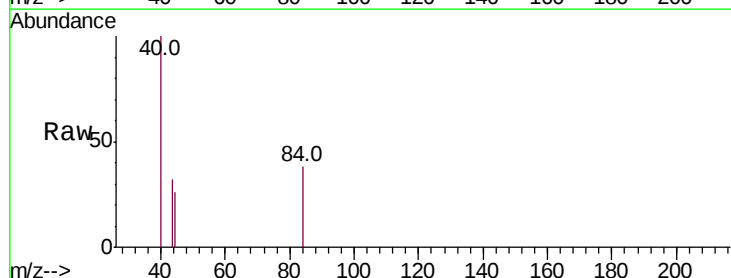
Instrument :  
MSVOA\_D  
ClientSampleId :  
HD-1

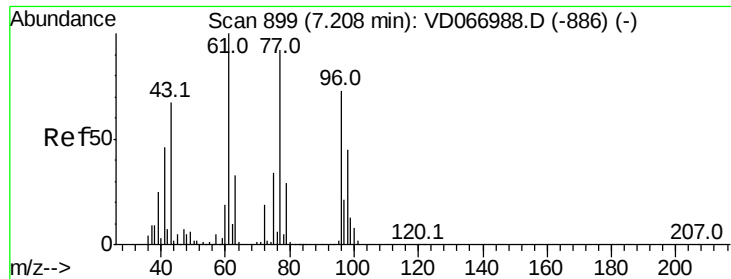
Tot Ion: 43 Resp: 76  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.5 32.3#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 519  
Delta R.T. 0.01 min  
Lab File: VD067234.D  
Acq: 12 Oct 2020 15:53

Tgt Ion: 84 Resp: 237  
Ion Ratio Lower Upper  
84 100  
49 0.0 88.2 132.2#  
51 0.0 26.6 39.8#  
86 0.0 52.1 78.1#

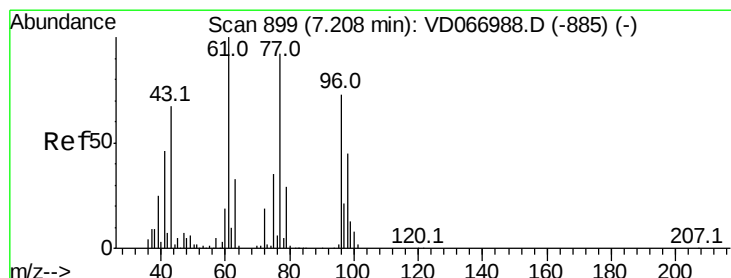
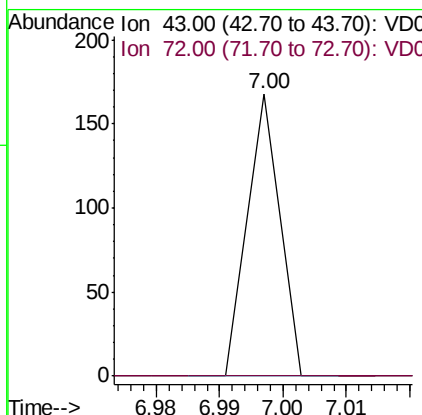
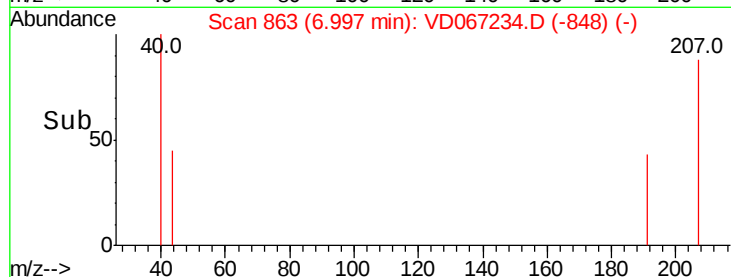
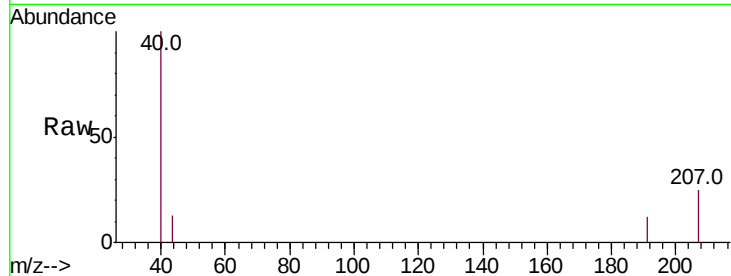




#25  
2-Butanone  
Concen: 2.300 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. -0.21 min  
Lab File: VD067234.D  
Acq: 12 Oct 2020 15:53

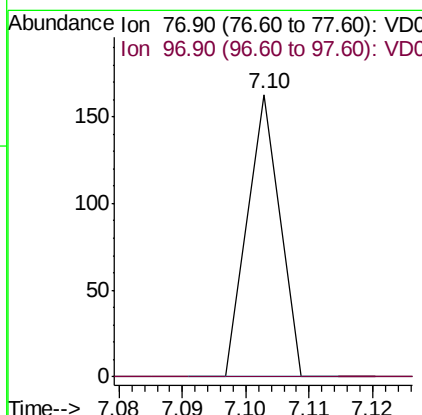
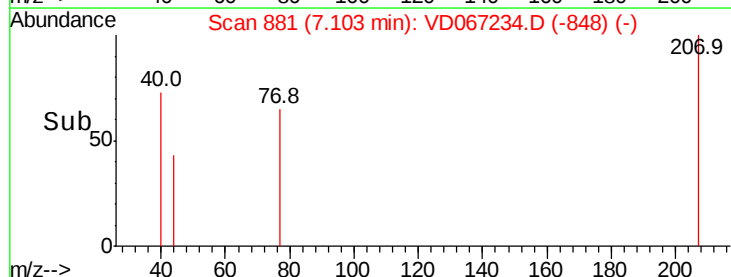
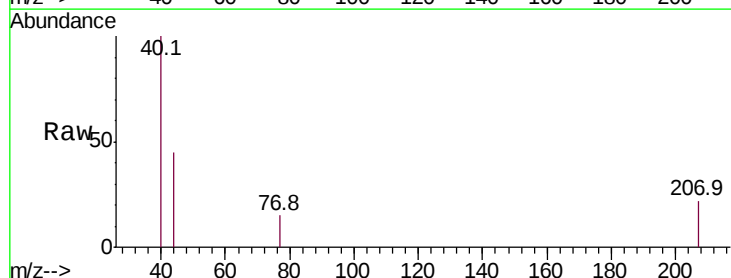
Instrument :  
MSVOA\_D  
ClientSampled :  
HD-1

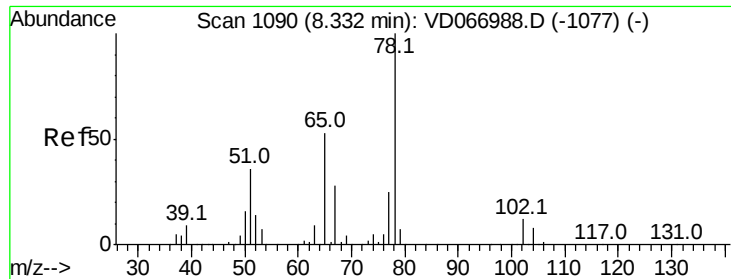
Tot Ion: 43 Resp: 59  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.8 34.2#



#26  
2,2-Dichloropropane  
Concen: Below Cal  
RT: 7.10 min Scan# 881  
Delta R.T. -0.11 min  
Lab File: VD067234.D  
Acq: 12 Oct 2020 15:53

Tgt Ion: 77 Resp: 58  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#





#33

1,2-Dichloroethane-d4

Concen: 81.894 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampled :

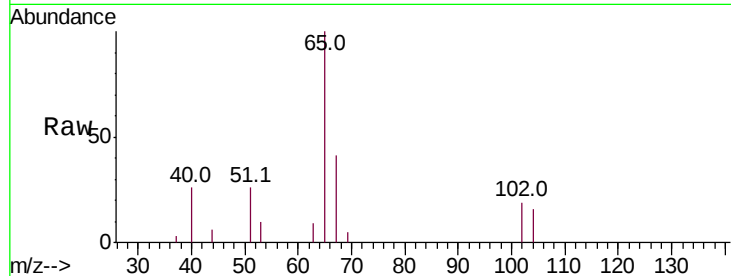
HD-1

Tot Ion: 65 Resp: 9707

Ion Ratio Lower Upper

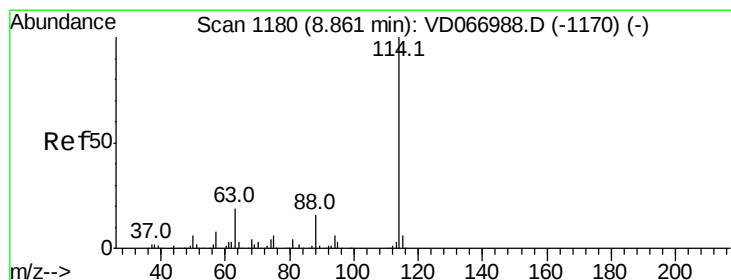
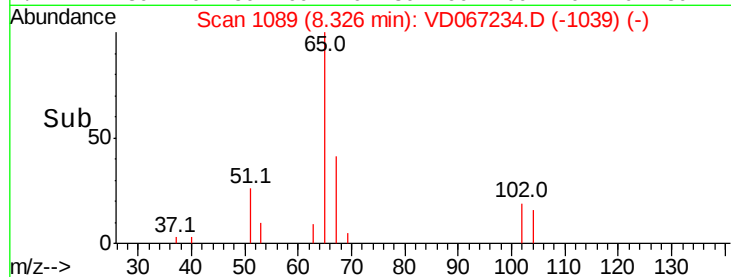
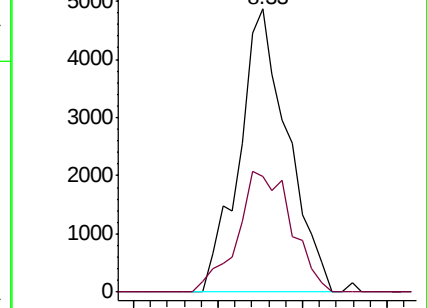
65 100

67 47.5 0.0 106.8



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: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

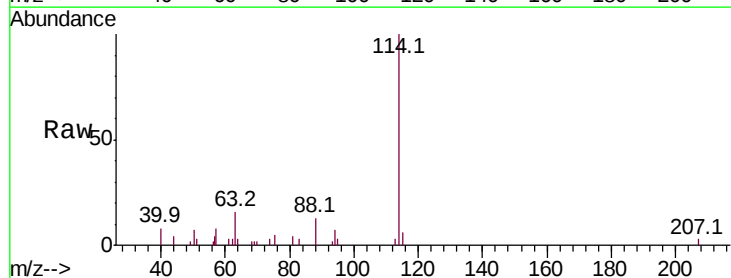
Tgt Ion:114 Resp: 19848

Ion Ratio Lower Upper

114 100

63 16.1 0.0 38.4

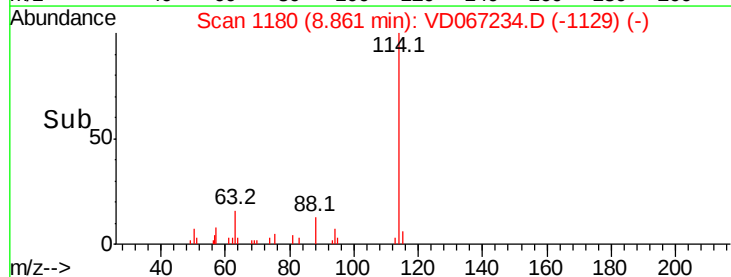
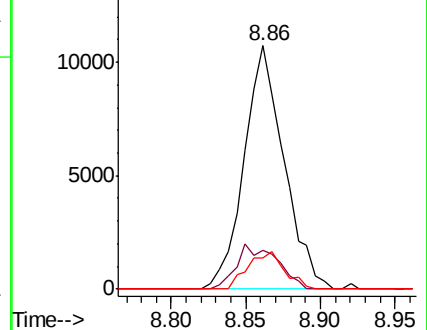
88 12.8 0.0 31.2

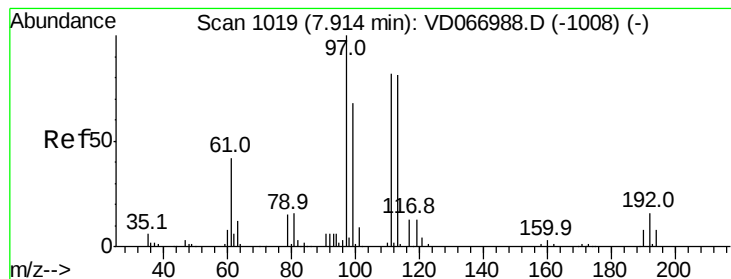


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 46.613 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampleId :

HD-1

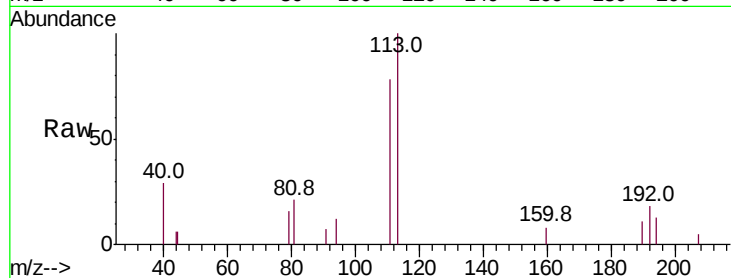
Tot Ion:113 Resp: 6057

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 98.3  | 83.0  | 124.4 |
| 192 | 19.5  | 15.5  | 23.3  |

113 100

111 98.3 83.0 124.4

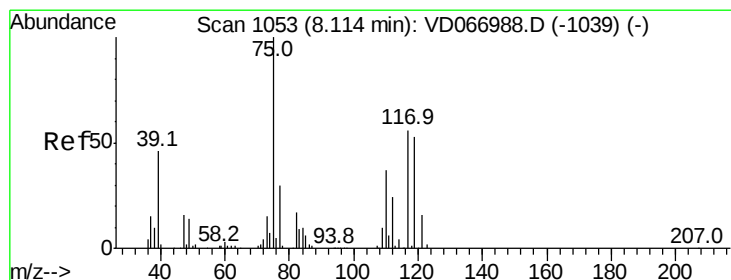
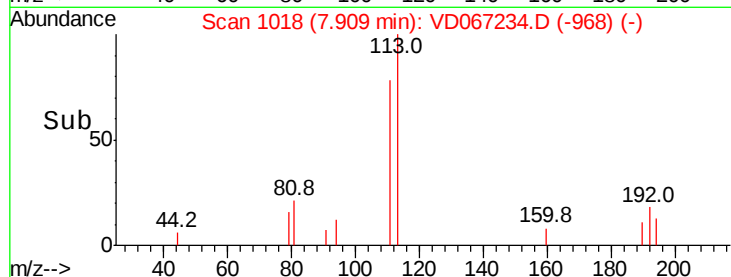
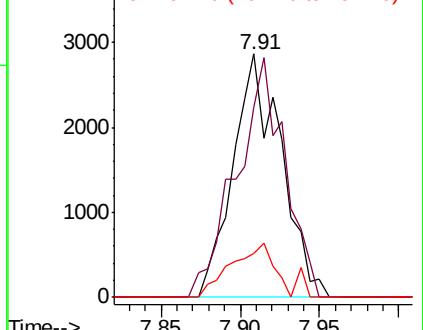
192 19.5 15.5 23.3



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: 3.530 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

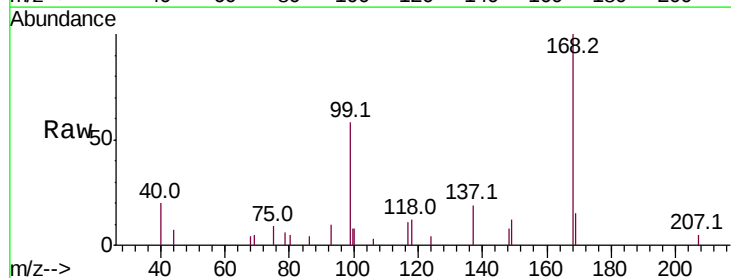
Tgt Ion: 75 Resp: 653

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 0.0   | 18.4  | 55.0# |
| 77  | 0.0   | 24.8  | 37.2# |

75 100

110 0.0 18.4 55.0#

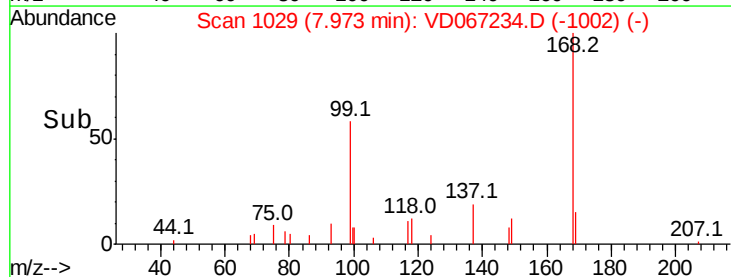
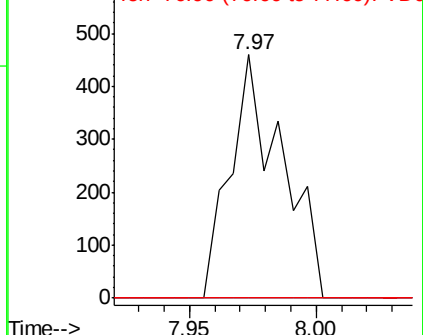
77 0.0 24.8 37.2#

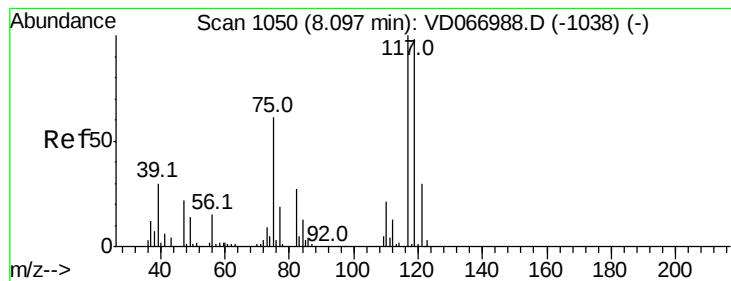


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.454 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampleId :

HD-1

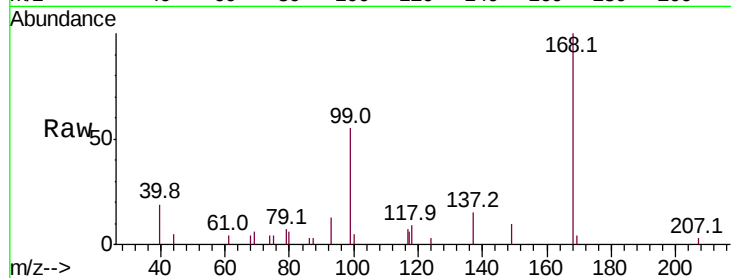
Tot Ion:117 Resp: 1292

Ion Ratio Lower Upper

117 100

119 0.0 78.7 118.1#

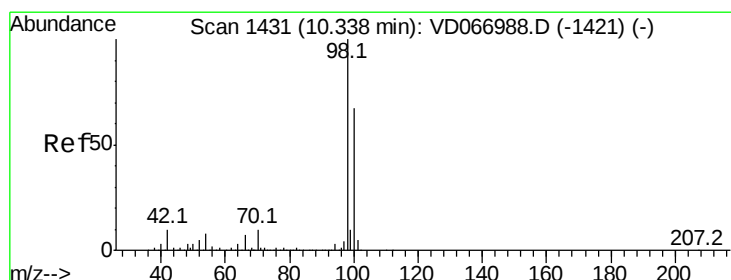
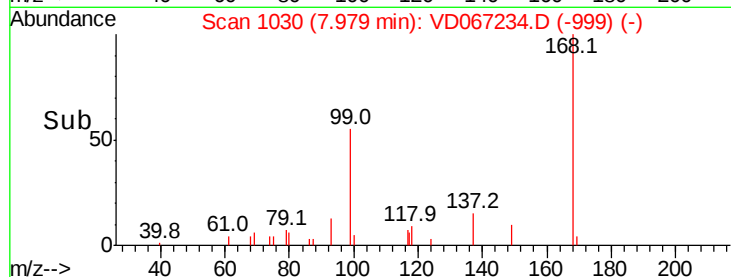
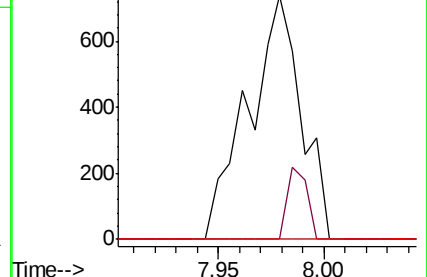
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 44.679 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067234.D

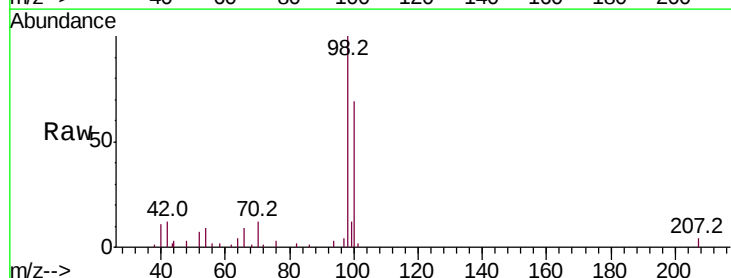
Acq: 12 Oct 2020 15:53

Tgt Ion: 98 Resp: 21155

Ion Ratio Lower Upper

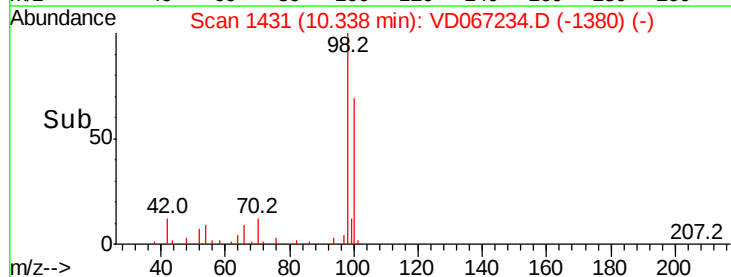
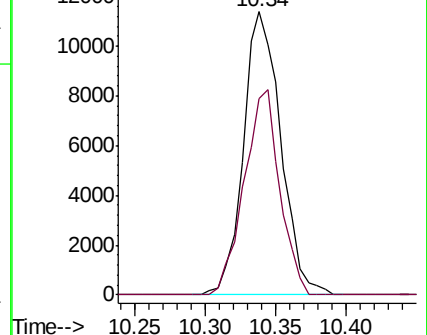
98 100

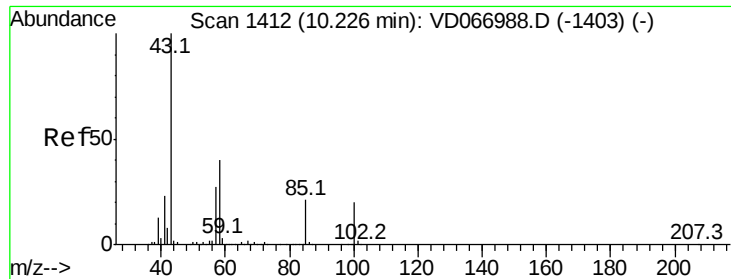
100 68.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.360 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampled :

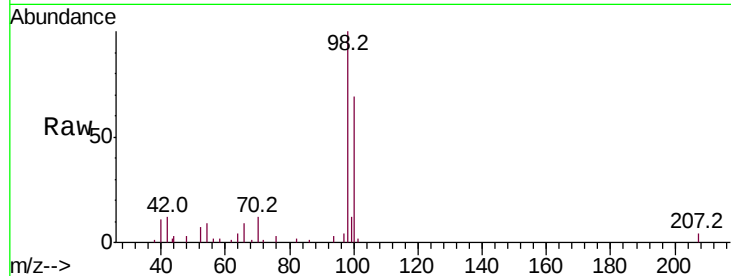
HD-1

Tot Ion: 43 Resp: 80

Ion Ratio Lower Upper

43 100

58 120.0 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

300

250

200

150

100

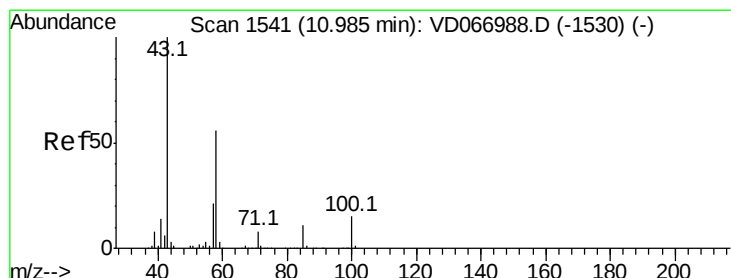
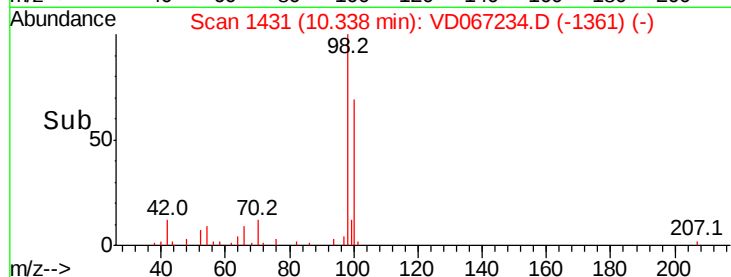
50

0

10.32

10.34

Time-->



#59

2-Hexanone

Concen: 1.350 ug/l

RT: 11.01 min Scan# 1546

Delta R.T. 0.03 min

Lab File: VD067234.D

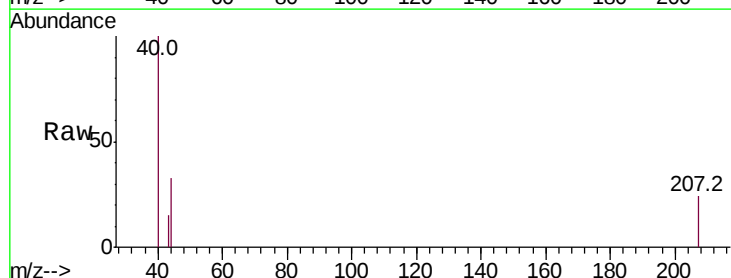
Acq: 12 Oct 2020 15:53

Tgt Ion: 43 Resp: 53

Ion Ratio Lower Upper

43 100

58 0.0 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

150

100

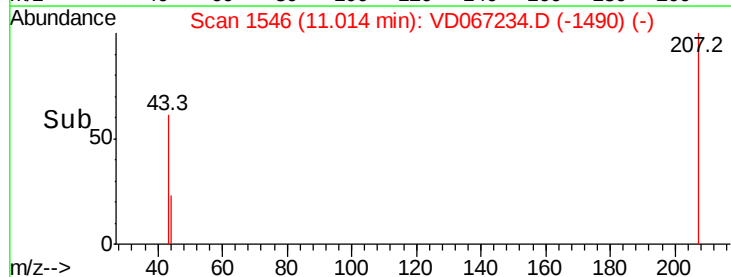
50

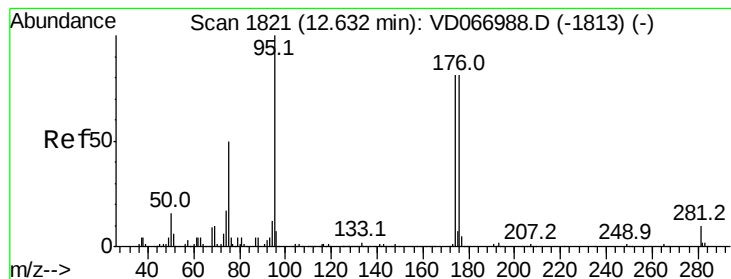
0

11.00

11.02

Time-->





#62

4-Bromofluorobenzene

Concen: 47.363 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampleId :

HD-1

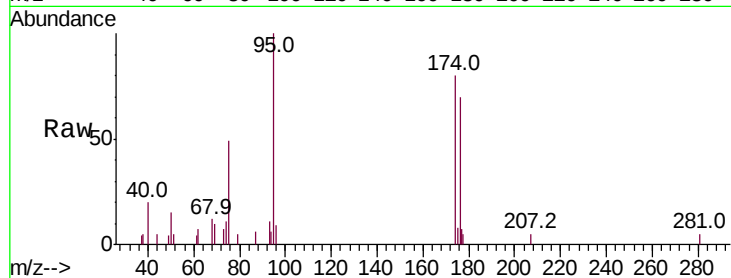
Tot Ion: 95 Resp: 7613

Ion Ratio Lower Upper

95 100

174 89.0 0.0 167.6

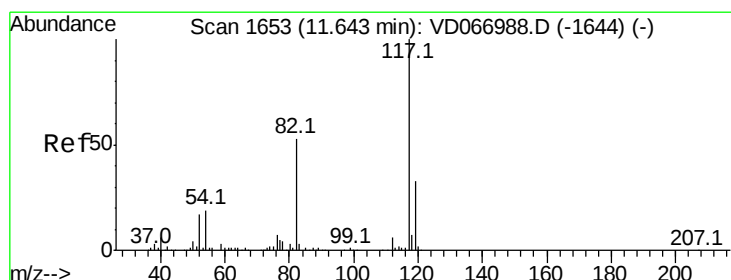
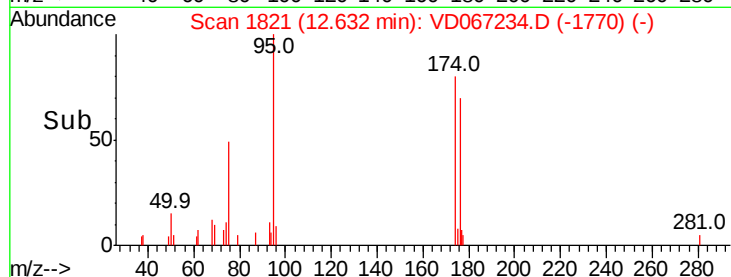
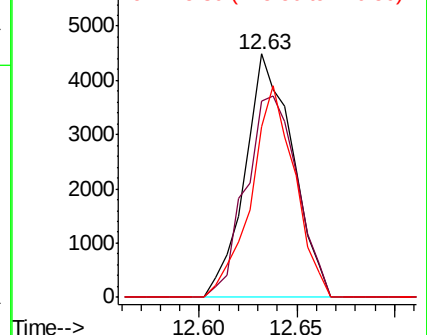
176 79.3 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

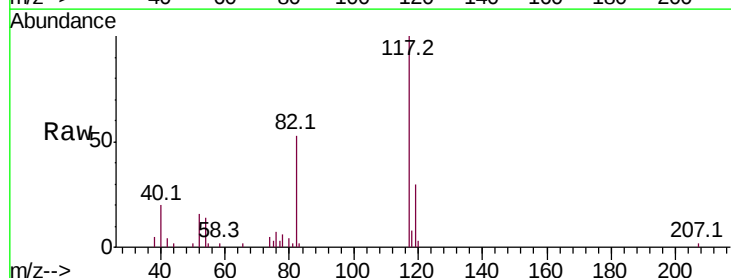
Tgt Ion: 117 Resp: 18082

Ion Ratio Lower Upper

117 100

82 53.3 42.6 63.8

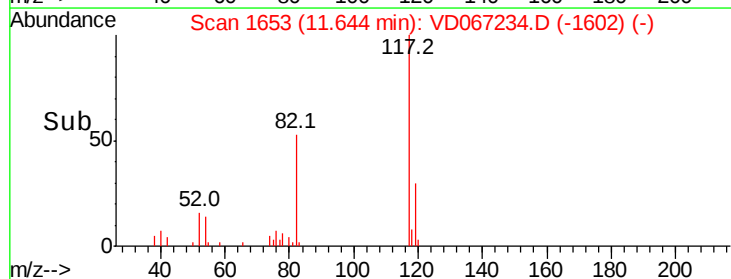
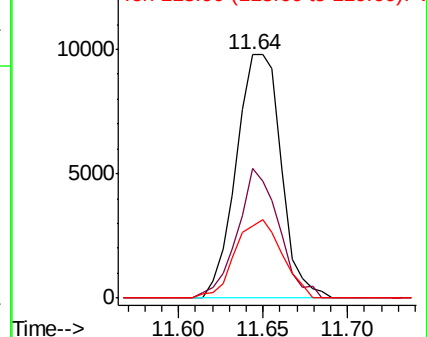
119 29.6 26.3 39.5

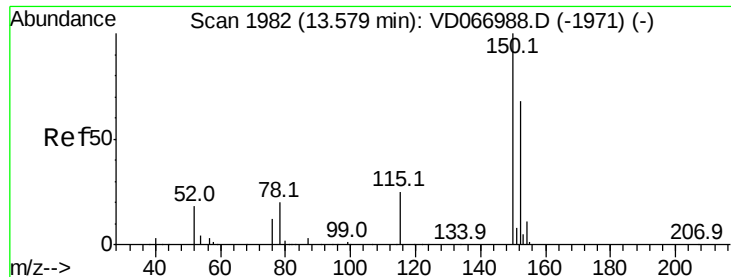


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1981

Delta R.T. -0.01 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampleId :

HD-1

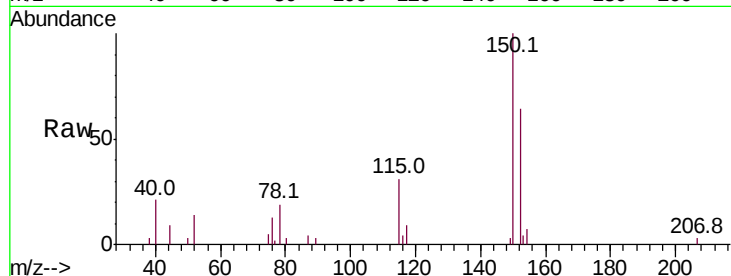
Tot Ion:152 Resp: 8106

Ion Ratio Lower Upper

152 100

115 60.3 29.6 88.8

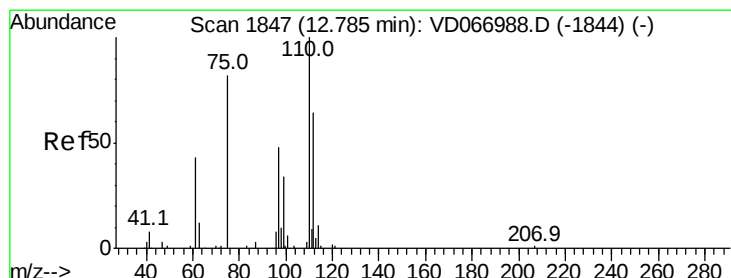
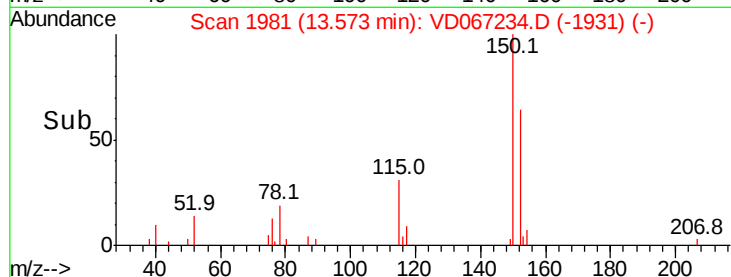
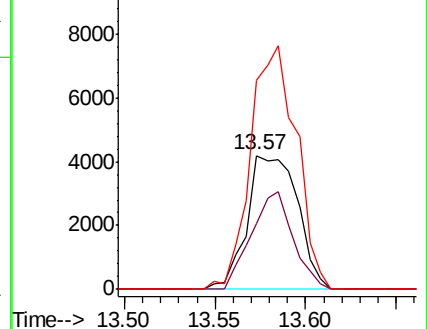
150 165.3 0.0 344.8



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: 53.239 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067234.D

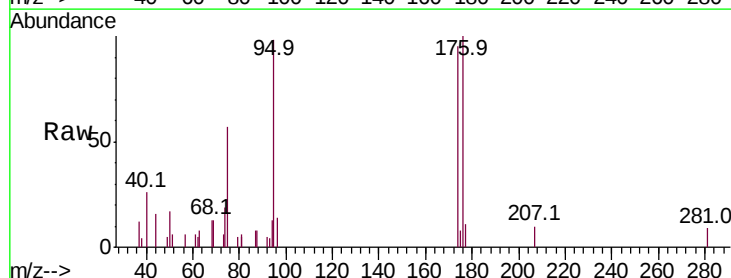
Acq: 12 Oct 2020 15:53

Tgt Ion: 75 Resp: 3759

Ion Ratio Lower Upper

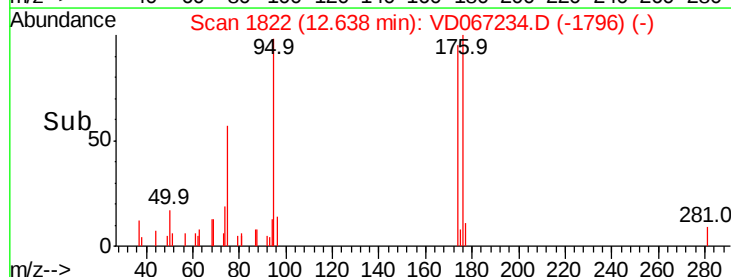
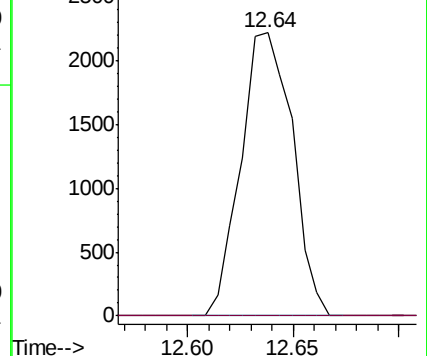
75 100

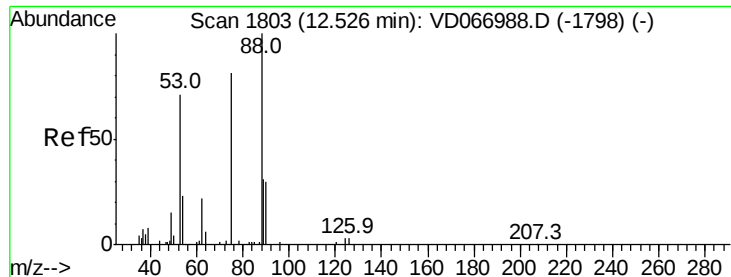
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 132.732 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067234.D

Acq: 12 Oct 2020 15:53

Instrument :

MSVOA\_D

ClientSampleId :

HD-1

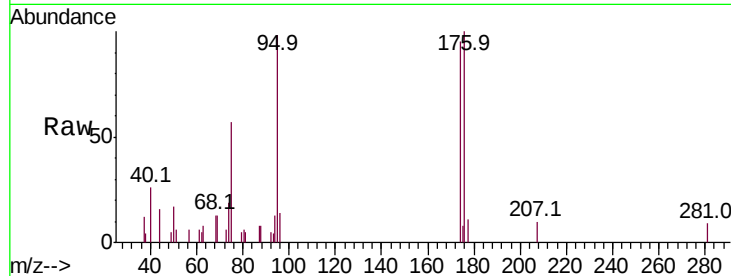
Tot Ion: 75 Resp: 3759

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

