

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040920\  
 Data File : VD065609.D  
 Acq On : 09 Apr 2020 12:03  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 10 01:15:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040920S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 10 01:11:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 468978   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 642750   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 600669   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 311200   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 211584   | 47.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.40%  |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 226175   | 50.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.74% |      |
| 50) Toluene-d8            | 10.34  | 98  | 856749   | 52.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.50% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 276299   | 52.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.88% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 217486  | 51.428  | ug/l | 100    |
| 3) Chloromethane              | 2.21 | 50  | 250484  | 47.630  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 249613  | 50.767  | ug/l | 100    |
| 5) Bromomethane               | 2.77 | 94  | 160122  | 46.176  | ug/l | 100    |
| 6) Chloroethane               | 2.93 | 64  | 148523  | 49.050  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 362590  | 48.620  | ug/l | 100    |
| 8) Diethyl Ether              | 3.70 | 74  | 82432   | 53.499  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.08 | 101 | 240483  | 49.329  | ug/l | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 278569  | 58.067  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.25 | 59  | 55388   | 245.172 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 222086  | 49.392  | ug/l | 100    |
| 13) Acrolein                  | 3.93 | 56  | 71742   | 230.825 | ug/l | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 342887  | 51.409  | ug/l | 100    |
| 15) Acrylonitrile             | 5.43 | 53  | 224439  | 247.007 | ug/l | 100    |
| 16) Acetone                   | 4.16 | 43  | 190680  | 238.076 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.40 | 76  | 747415  | 49.958  | ug/l | 100    |
| 18) Methyl Acetate            | 4.72 | 43  | 112024  | 47.652  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 462369  | 53.192  | ug/l | 100    |
| 20) Methylene Chloride        | 4.96 | 84  | 240581  | 45.441  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 262930  | 51.523  | ug/l | 100    |
| 22) Diisopropyl ether         | 6.37 | 45  | 691283  | 53.920  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.31 | 43  | 1868954 | 283.701 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 424502  | 49.770  | ug/l | 100    |
| 25) 2-Butanone                | 7.22 | 43  | 273703  | 249.670 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 373759  | 48.966  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 270106  | 51.717  | ug/l | 100    |
| 28) Bromochloromethane        | 7.55 | 49  | 165927  | 48.469  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.57 | 42  | 176409  | 256.077 | ug/l | 100    |
| 30) Chloroform                | 7.71 | 83  | 439751  | 49.239  | ug/l | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 386213  | 48.812  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 400290  | 49.595  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 348566  | 52.675  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.30 | 43  | 127090  | 51.726  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 369686  | 51.450  | ug/l | 100    |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 420447   | 56.127   | ug/l   | 100      |
| 40) Benzene                    | 8.36  | 78   | 990012   | 52.364   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.57  | 41   | 179335   | 124.868  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 266464   | 50.458   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 237946   | 53.081   | ug/l   | 100      |
| 44) Trichloroethene            | 9.12  | 130  | 280965   | 51.706   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 239815   | 52.091   | ug/l   | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 124987   | 50.508   | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.67  | 83   | 334818   | 51.596   | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 112237   | 53.984   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.47  | 88   | 27106    | 1034.282 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 615372   | 266.381  | ug/l   | 100      |
| 52) Toluene                    | 10.41 | 92   | 639839   | 53.524   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 308817   | 53.617   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 375365   | 53.227   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 173710   | 50.023   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.67 | 69   | 200429   | 57.227   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.96 | 76   | 294598   | 51.218   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 503572   | 273.790  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 420257   | 273.735  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 236594   | 51.157   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 167184   | 50.647   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 245967   | 51.481   | ug/l   | 100      |
| 65) Chlorobenzene              | 11.68 | 112  | 673773   | 51.794   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 258006   | 52.063   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.75 | 91   | 1186444  | 55.232   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 944114   | 111.401  | ug/l   | 100      |
| 69) o-Xylene                   | 12.19 | 106  | 412382   | 56.469   | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 742775   | 57.530   | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 139423   | 50.165   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 1119578  | 56.463   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 215740   | 54.939   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 182194   | 49.985   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 240094   | 57.422   | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 285232   | 52.470   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.83 | 91   | 1341736  | 56.068   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 745621   | 54.366   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 936362   | 56.029   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 59859    | 55.553   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 788587   | 53.421   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 811220   | 58.050   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 942271   | 56.737   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1109000  | 55.771   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 1045656  | 56.983   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 535632   | 51.096   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 531860   | 50.796   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.85 | 91   | 930630   | 56.196   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.13 | 117  | 204170   | 51.004   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 460592   | 51.646   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 26951    | 47.935   | ug/l   | 100      |

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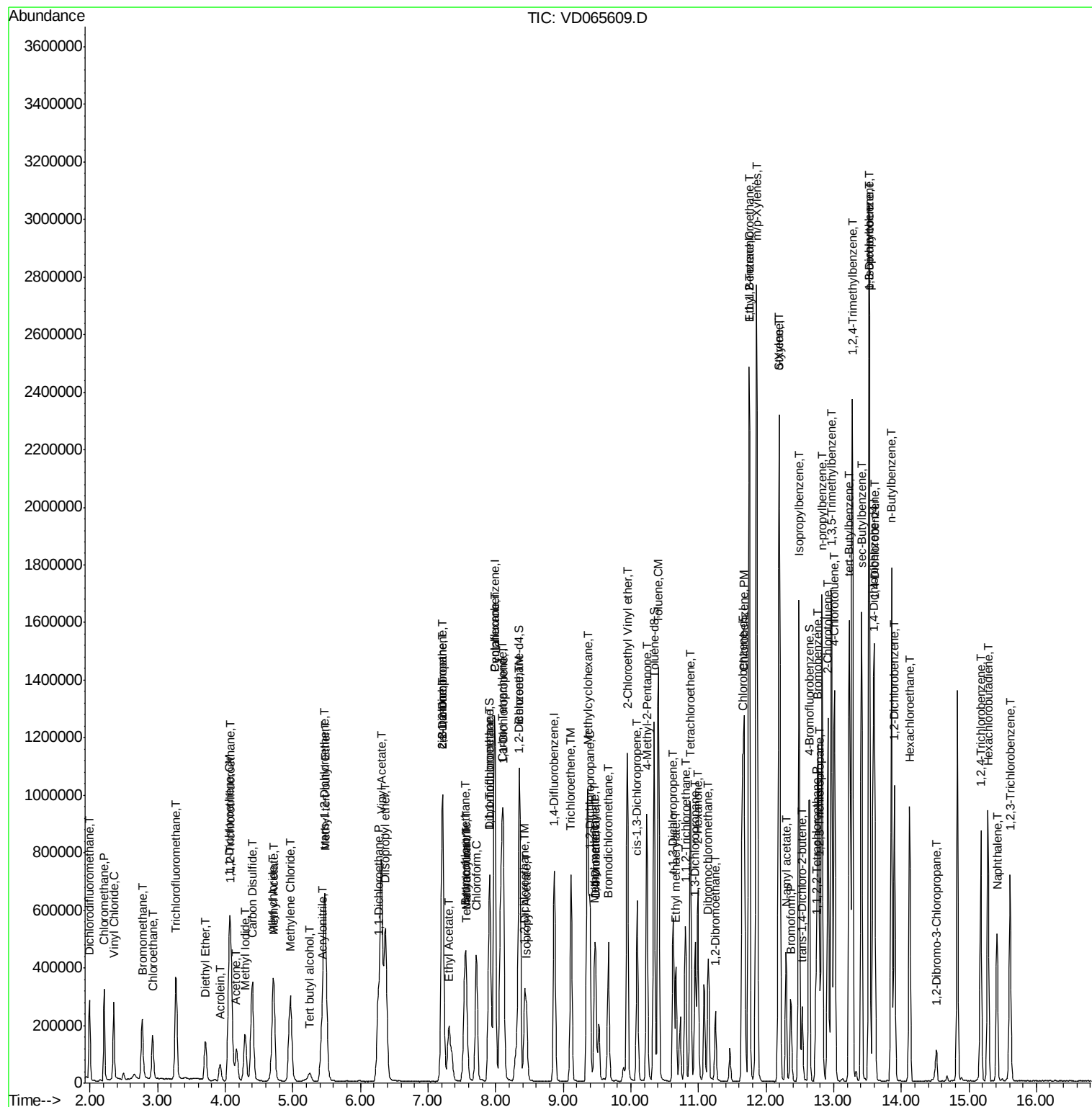
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.18 | 180  | 313602   | 53.534 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 208654   | 51.243 | ug/l  | 100      |
| 95) Naphthalene            | 15.42 | 128  | 479020   | 56.436 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 271842   | 53.610 | ug/l  | 100      |

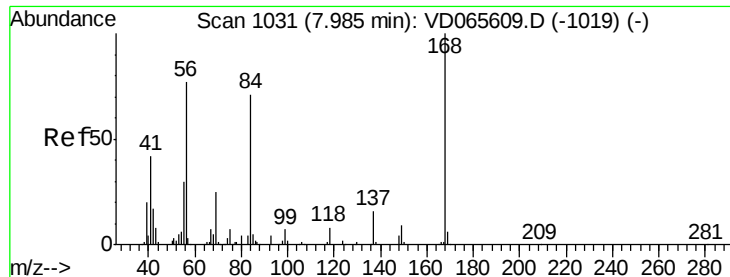
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040920\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

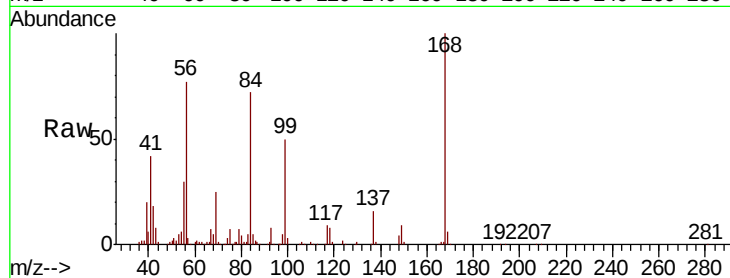
ClientSampleId :

Tot Ion:168 Resp: 468978

Ion Ratio Lower Upper

168 100

99 50.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

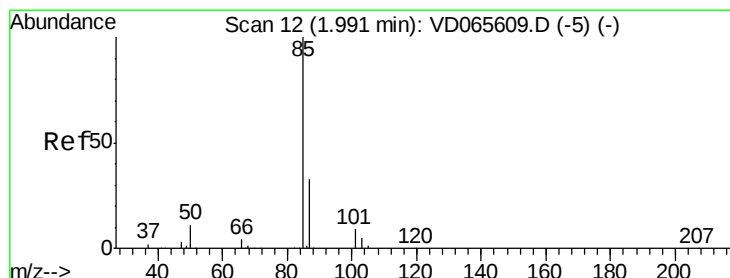
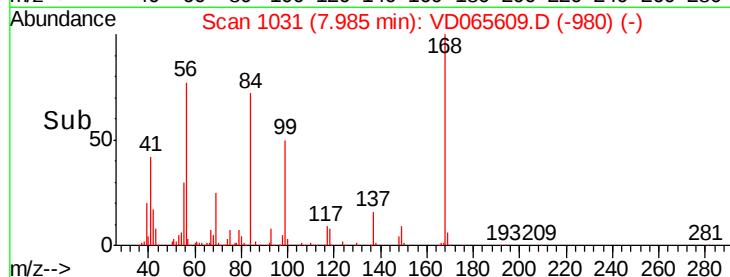
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 51.428 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065609.D

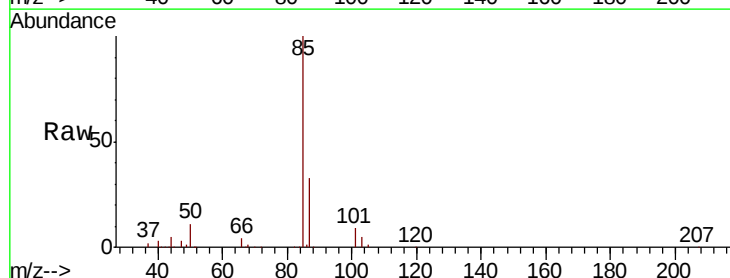
Acq: 09 Apr 2020 12:03

Tgt Ion: 85 Resp: 217486

Ion Ratio Lower Upper

85 100

87 33.2 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

150000

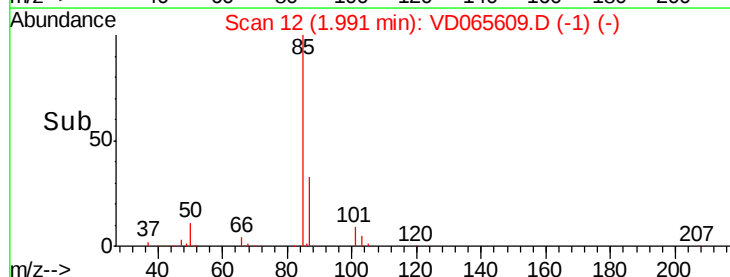
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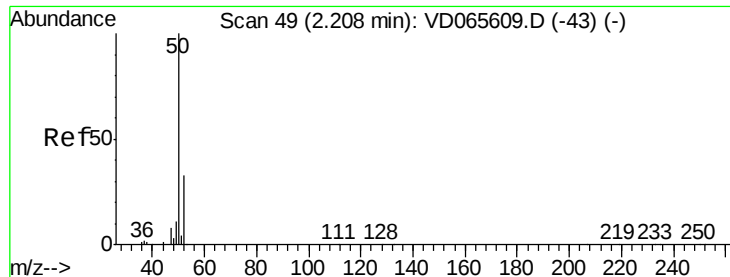
50000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 47.630 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

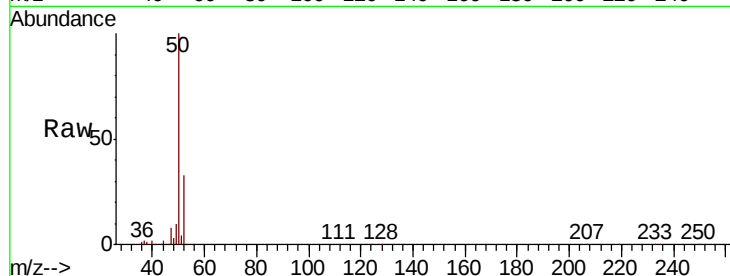
ClientSampleId :

Tot Ion: 50 Resp: 250484

Ion Ratio Lower Upper

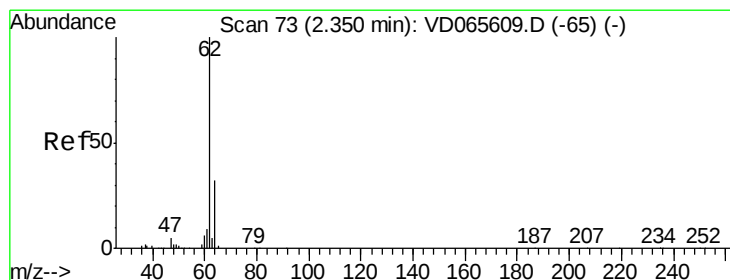
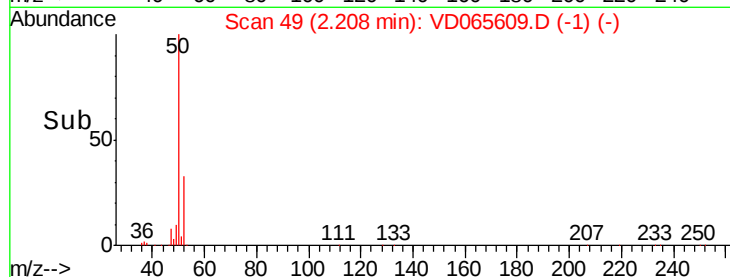
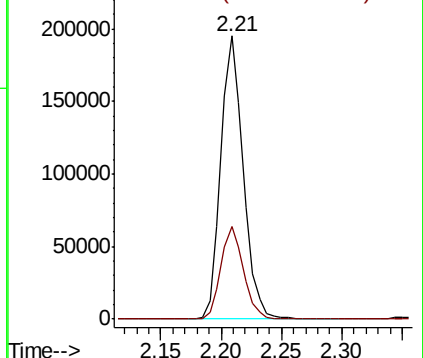
50 100

52 32.8 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 50.767 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065609.D

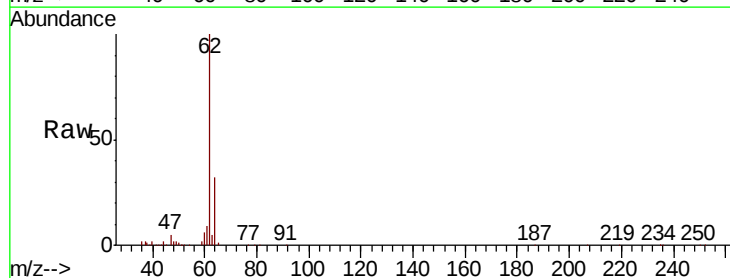
Acq: 09 Apr 2020 12:03

Tgt Ion: 62 Resp: 249613

Ion Ratio Lower Upper

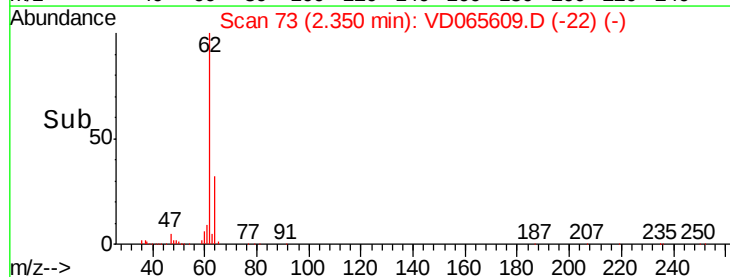
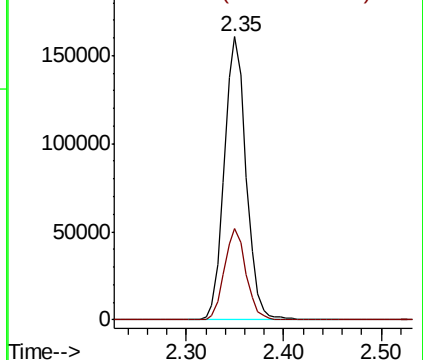
62 100

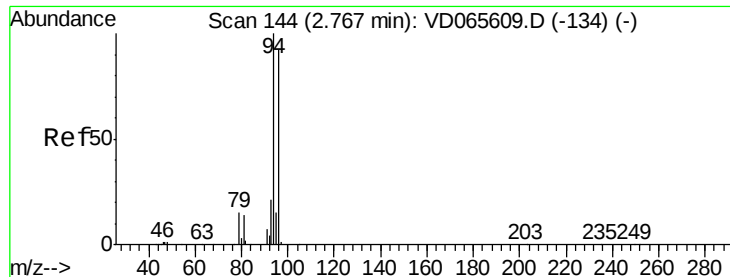
64 32.2 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 46.176 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

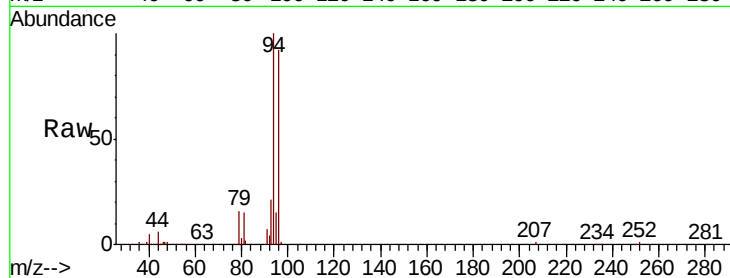
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 94 Resp: 160122

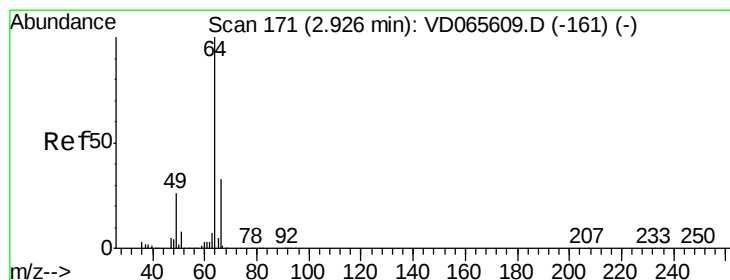
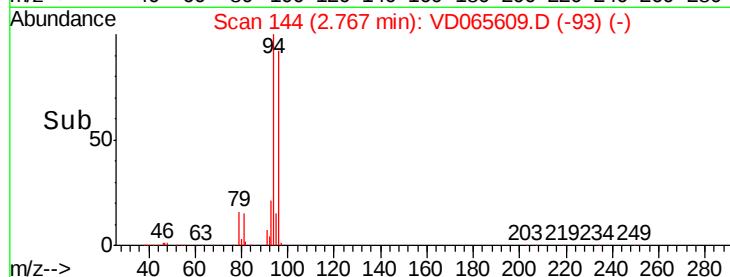
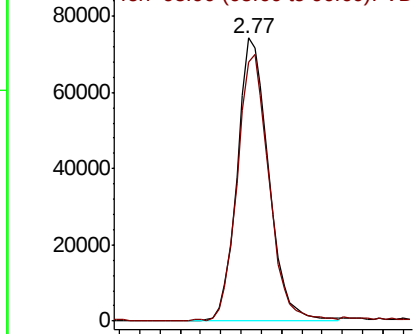
Ion Ratio Lower Upper

94 100

96 91.6 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VDC  
Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 49.050 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065609.D

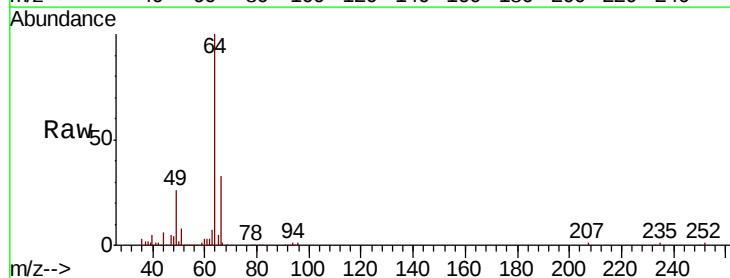
Acq: 09 Apr 2020 12:03

Tgt Ion: 64 Resp: 148523

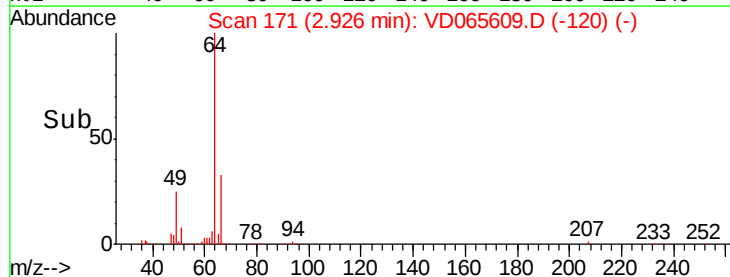
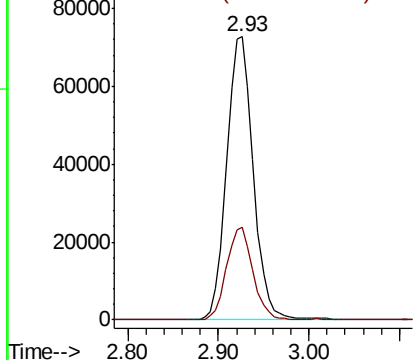
Ion Ratio Lower Upper

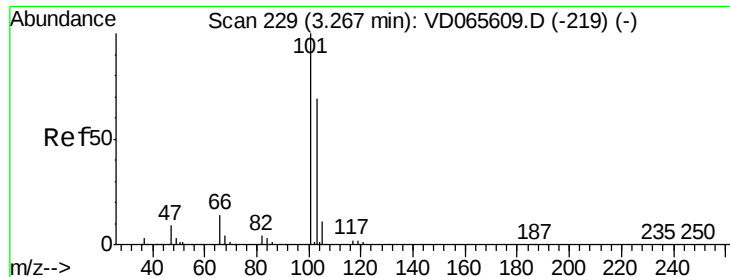
64 100

66 32.6 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VDC  
Ion 65.90 (65.60 to 66.60): VDC



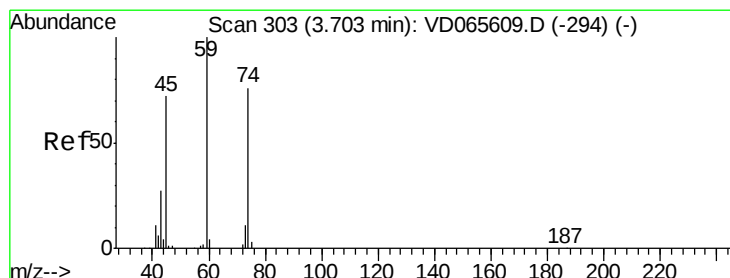
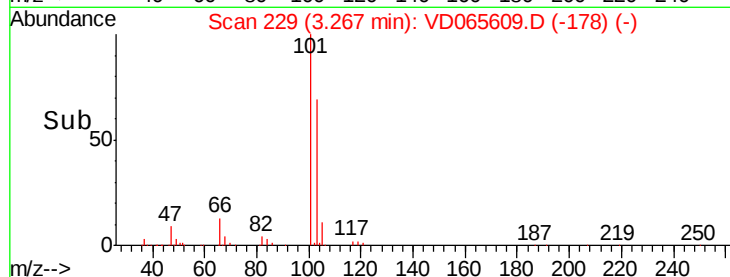
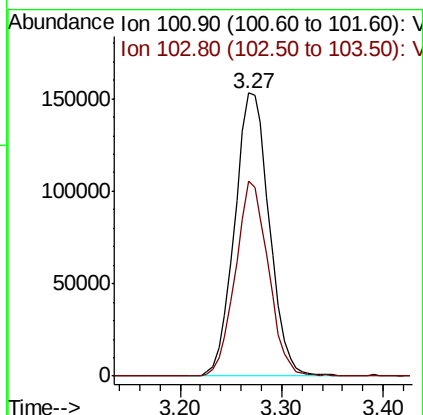
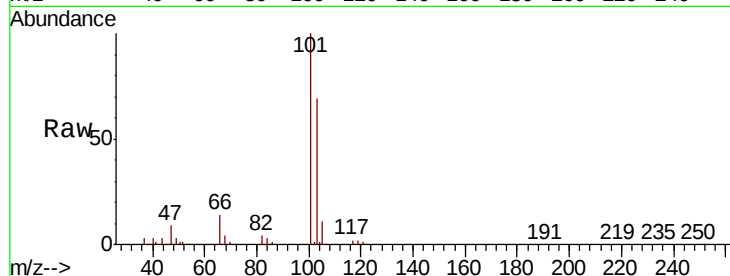


#7

Trichlorofluoromethane  
 Concen: 48.620 ug/l  
 RT: 3.27 min Scan# 229  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :

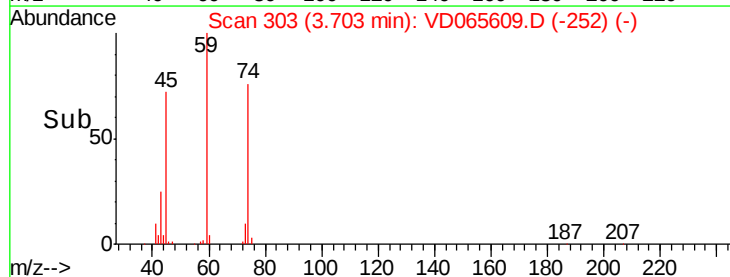
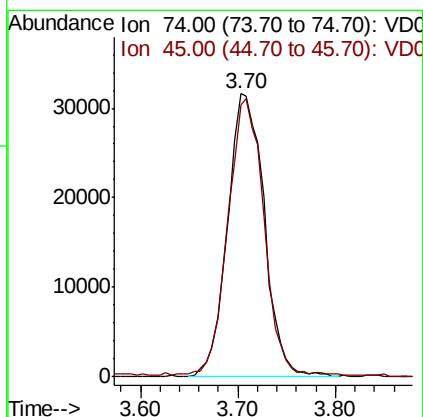
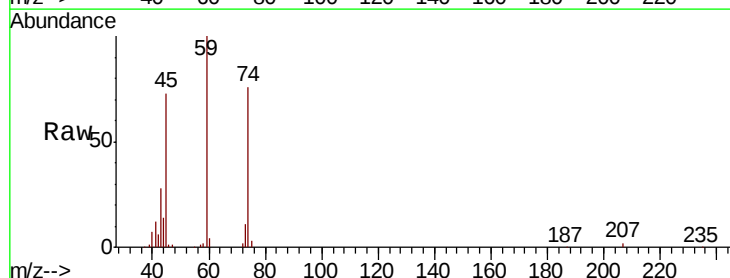
Tot Ion:101 Resp: 362590  
 Ion Ratio Lower Upper  
 101 100  
 103 68.7 55.0 82.4

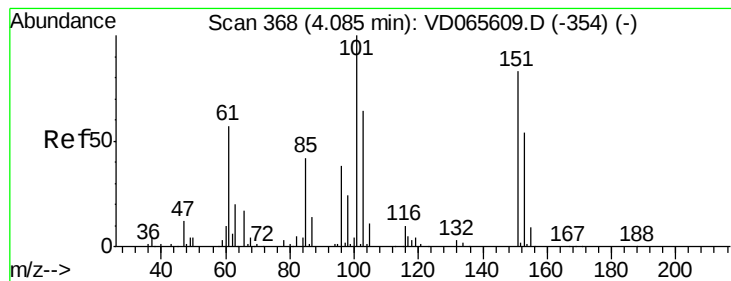


#8

Diethyl Ether  
 Concen: 53.499 ug/l  
 RT: 3.70 min Scan# 303  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Tgt Ion: 74 Resp: 82432  
 Ion Ratio Lower Upper  
 74 100  
 45 95.5 47.8 143.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.329 ug/l

RT: 4.08 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampled :

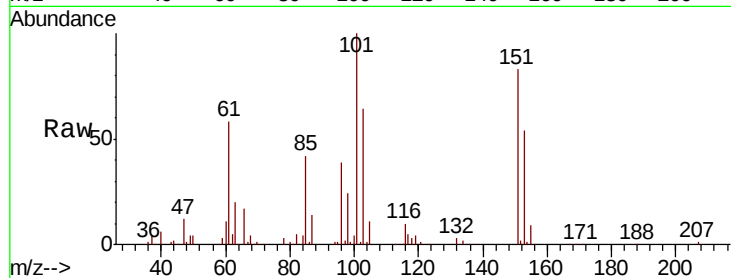
Tot Ion:101 Resp: 240483

Ion Ratio Lower Upper

101 100

85 42.2 33.8 50.6

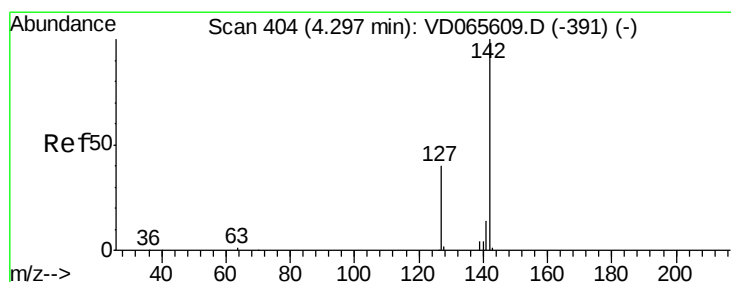
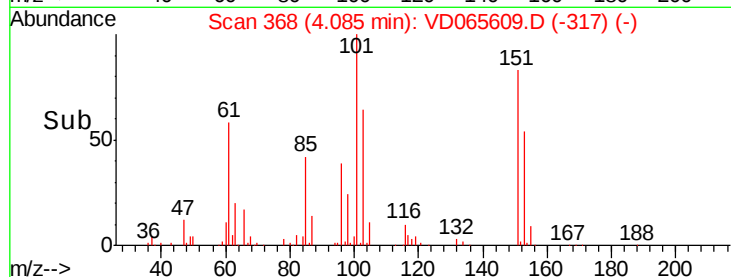
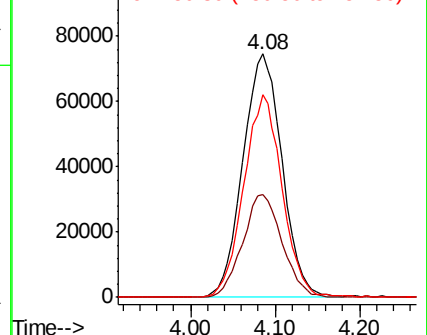
151 81.2 65.0 97.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 58.067 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

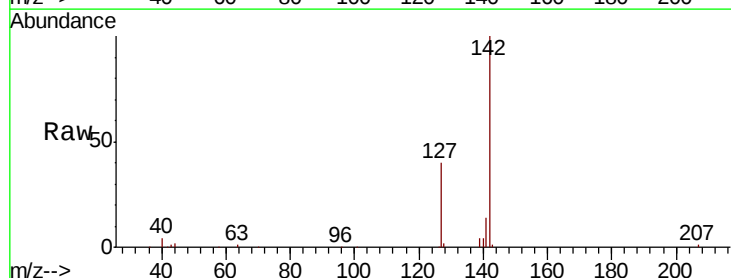
Tgt Ion:142 Resp: 278569

Ion Ratio Lower Upper

142 100

127 43.2 34.6 51.8

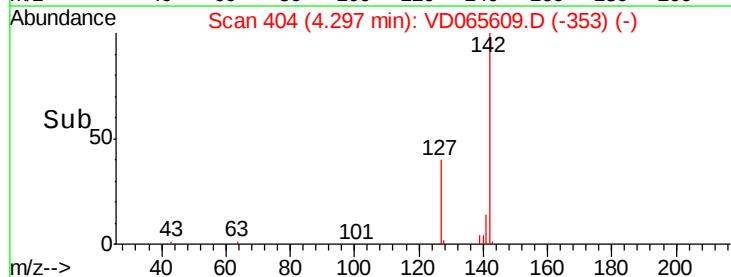
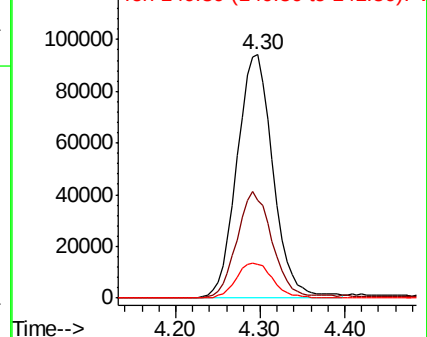
141 14.6 11.7 17.5

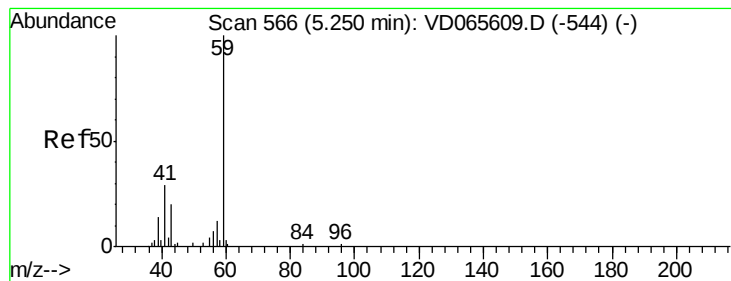


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



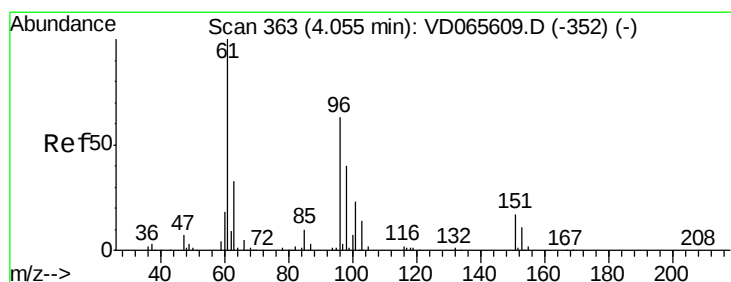
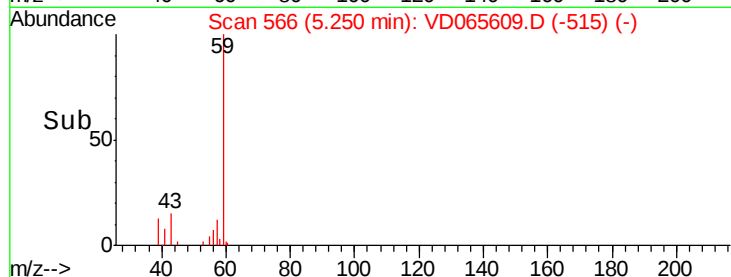
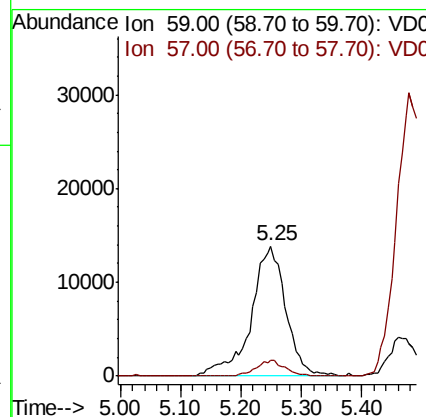
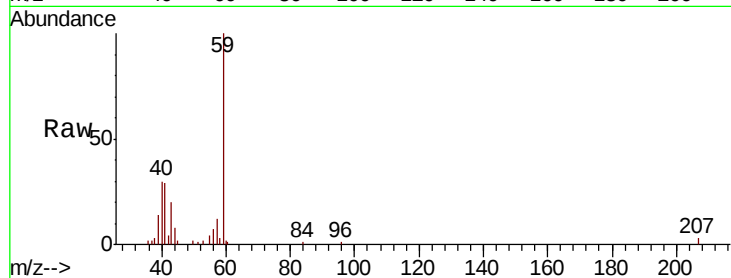


#11

Tert butyl alcohol  
 Concen: 245.172 ug/l  
 RT: 5.25 min Scan# 566  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :

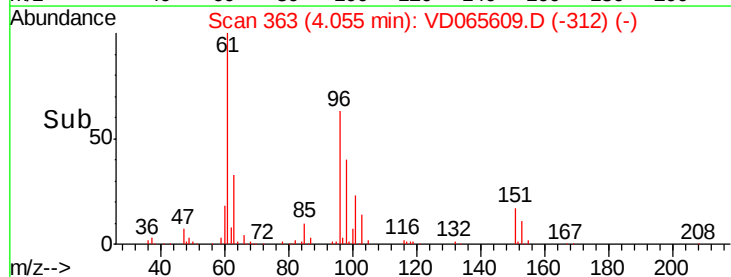
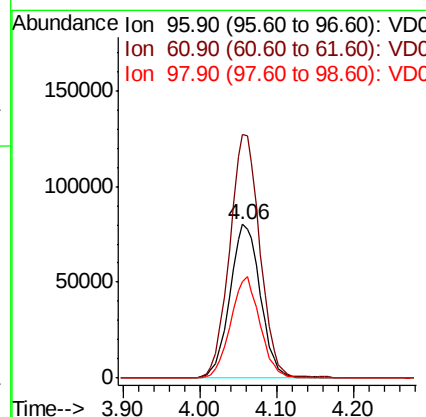
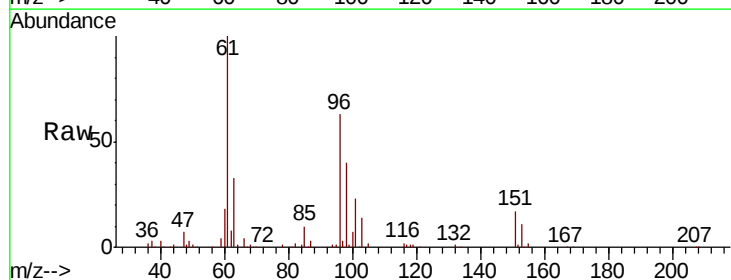
Tot Ion: 59 Resp: 55388  
 Ion Ratio Lower Upper  
 59 100  
 57 10.1 8.1 12.1

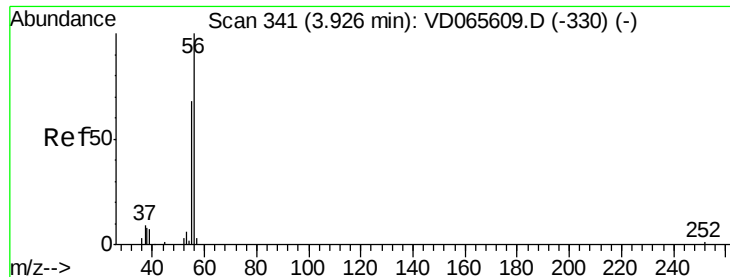


#12

1,1-Dichloroethene  
 Concen: 49.392 ug/l  
 RT: 4.06 min Scan# 363  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Tgt Ion: 96 Resp: 222086  
 Ion Ratio Lower Upper  
 96 100  
 61 158.3 126.6 190.0  
 98 62.8 50.2 75.4





#13

Acrolein

Concen: 230.825 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

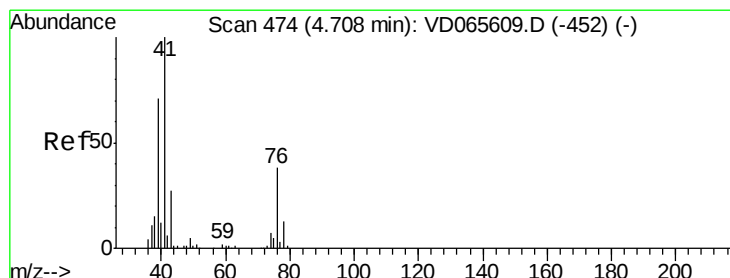
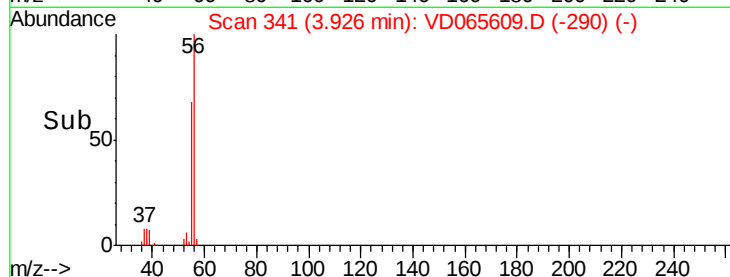
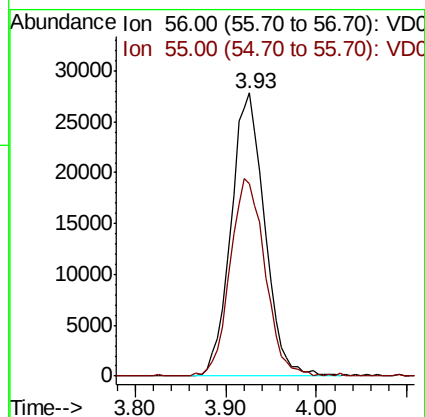
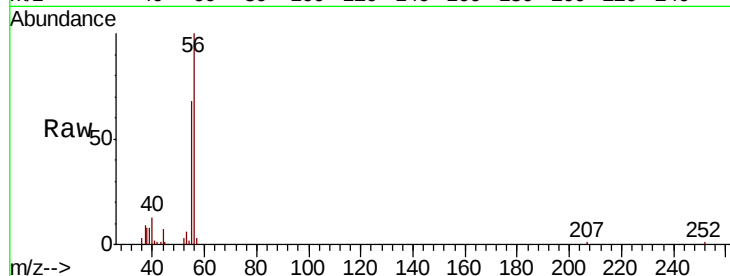
ClientSampled :

Tot Ion: 56 Resp: 71742

Ion Ratio Lower Upper

56 100

55 72.4 57.9 86.9



#14

Allyl chloride

Concen: 51.409 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

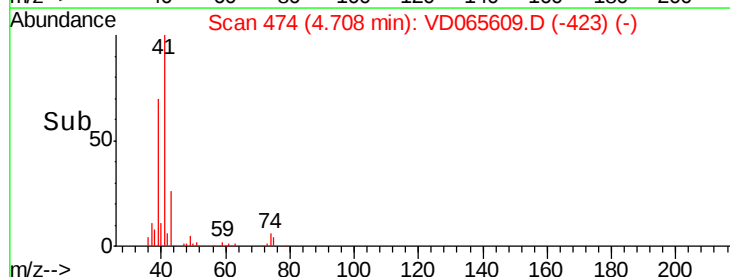
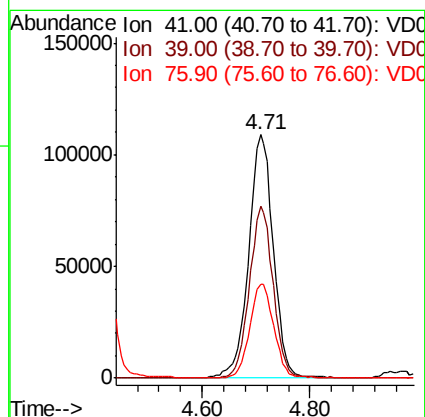
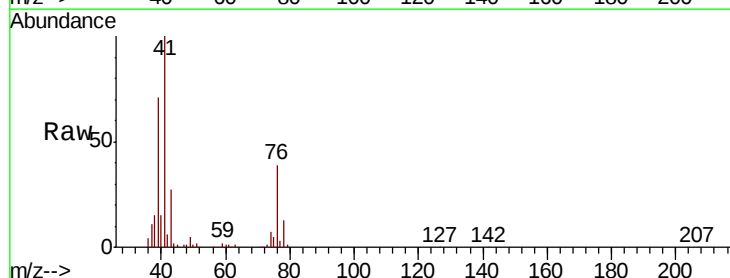
Tgt Ion: 41 Resp: 342887

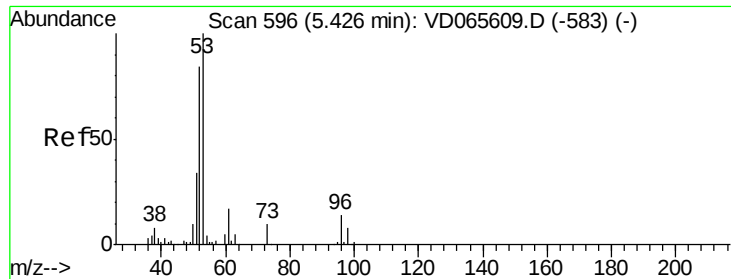
Ion Ratio Lower Upper

41 100

39 67.7 54.2 81.2

76 37.1 29.7 44.5

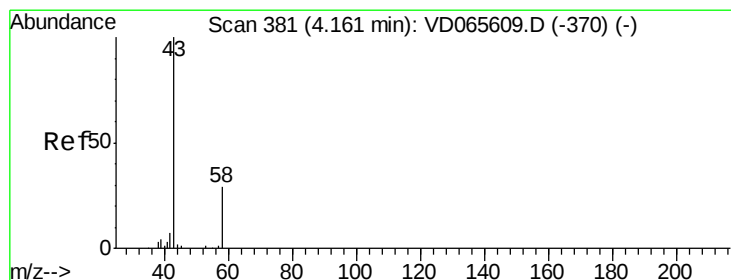
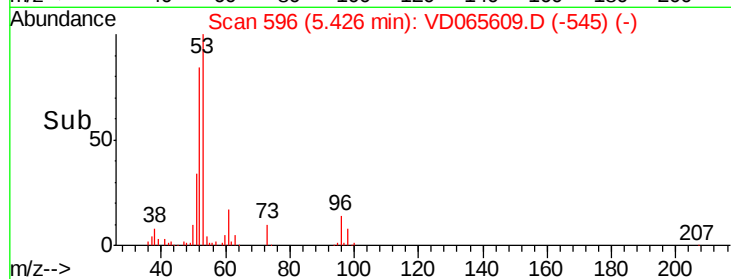
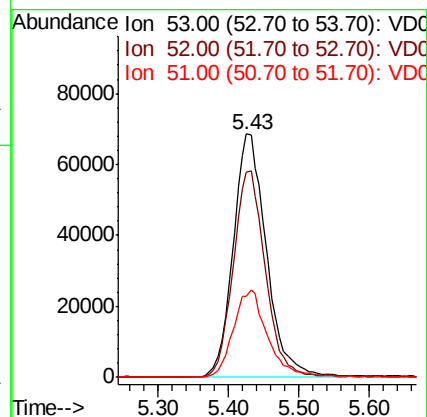
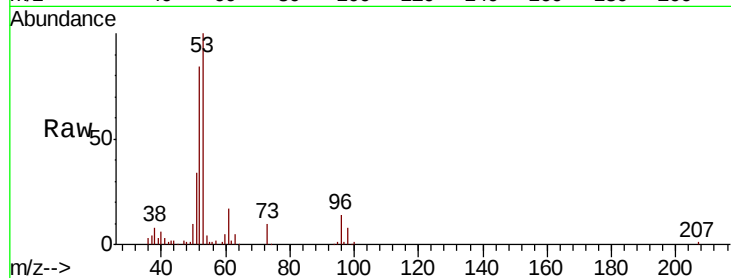




#15  
 Acrylonitrile  
 Concen: 247.007 ug/l  
 RT: 5.43 min Scan# 596  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

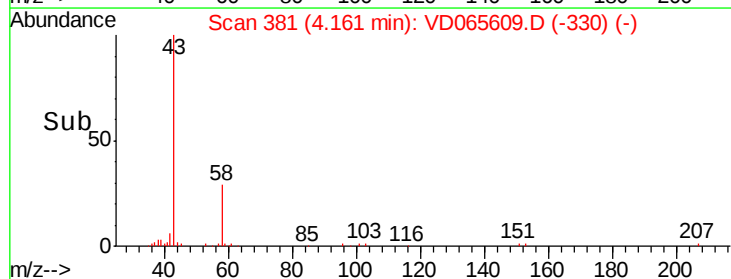
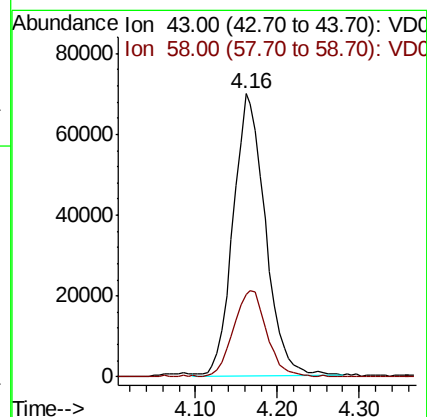
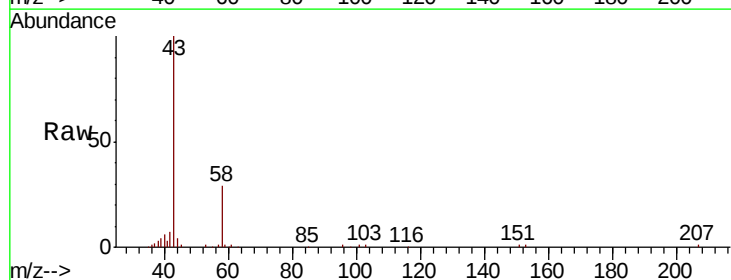
Instrument :  
 MSVOA\_D  
 ClientSampleId :

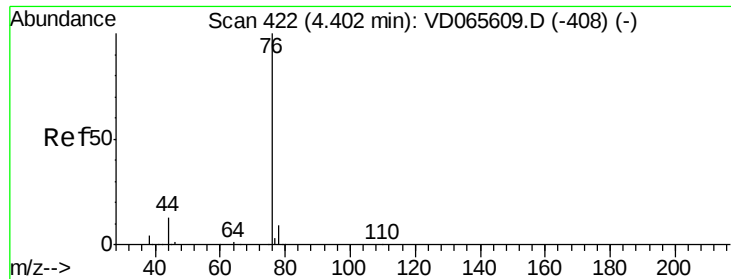
Tot Ion: 53 Resp: 224439  
 Ion Ratio Lower Upper  
 53 100  
 52 81.6 65.3 97.9  
 51 36.9 29.5 44.3



#16  
 Acetone  
 Concen: 238.076 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Tgt Ion: 43 Resp: 190680  
 Ion Ratio Lower Upper  
 43 100  
 58 29.0 23.2 34.8

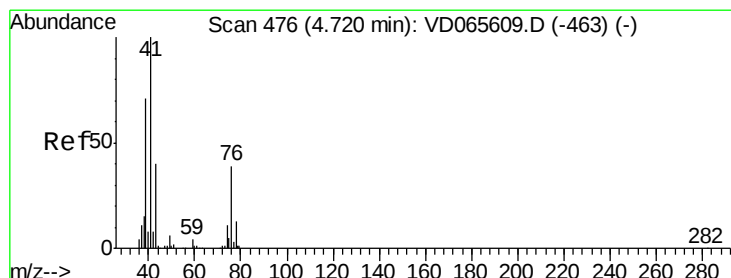
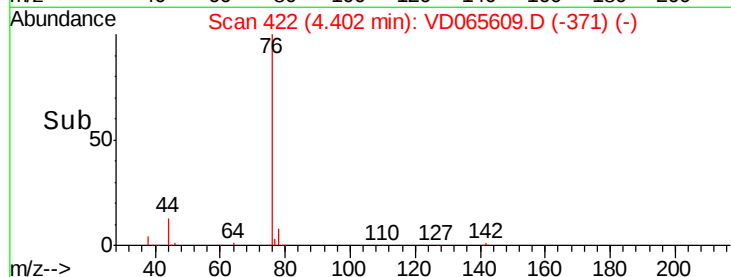
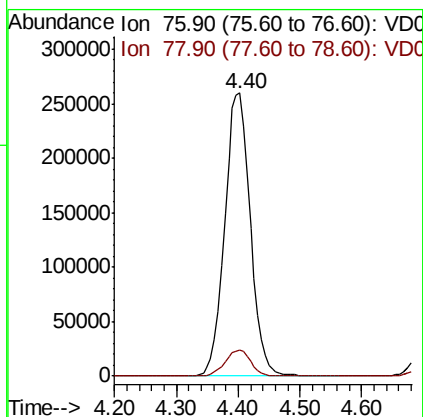
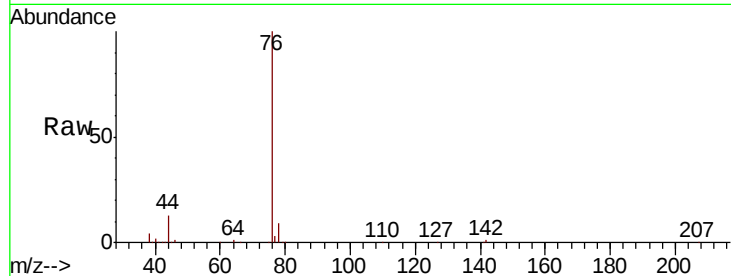




#17  
Carbon Disulfide  
Concen: 49.958 ug/l  
RT: 4.40 min Scan# 422  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

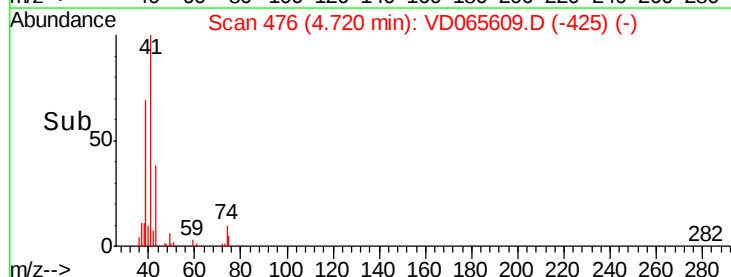
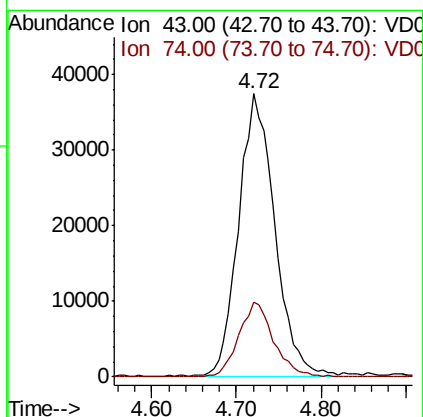
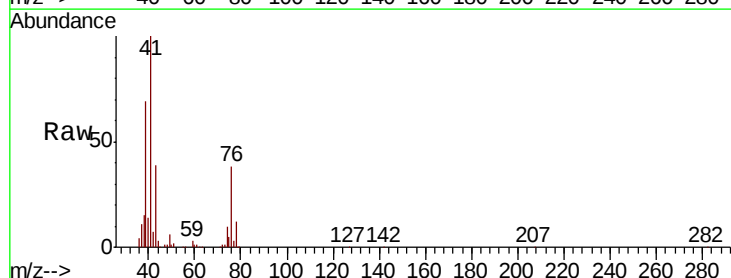
Instrument :  
MSVOA\_D  
ClientSampled :

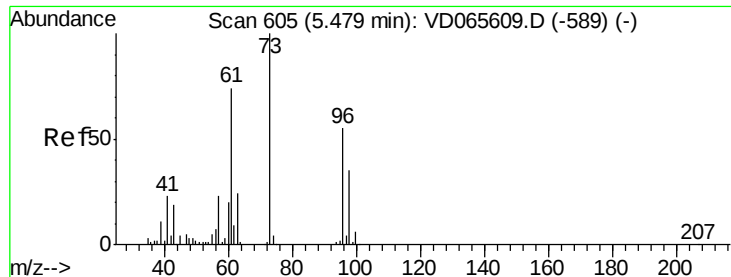
Tot Ion: 76 Resp: 747415  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.3 10.9



#18  
Methyl Acetate  
Concen: 47.652 ug/l  
RT: 4.72 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 43 Resp: 112024  
Ion Ratio Lower Upper  
43 100  
74 25.2 20.2 30.2

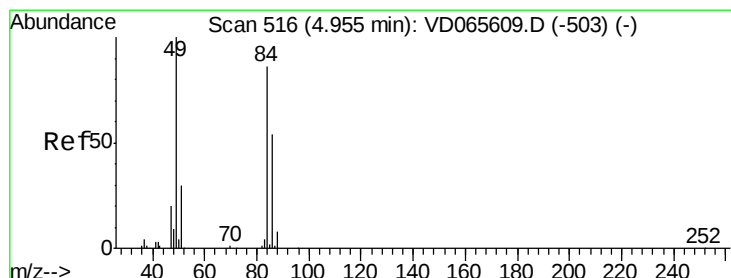
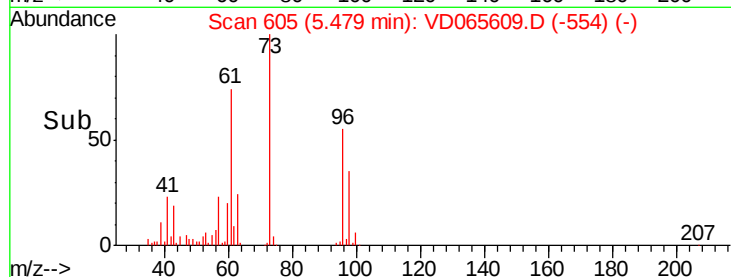
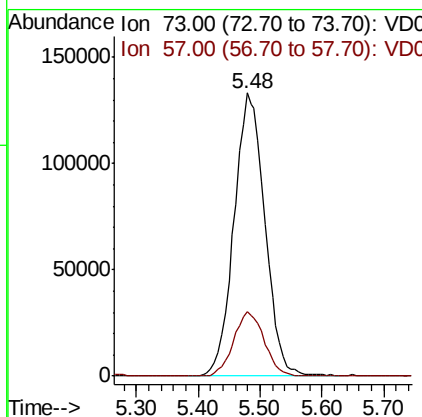
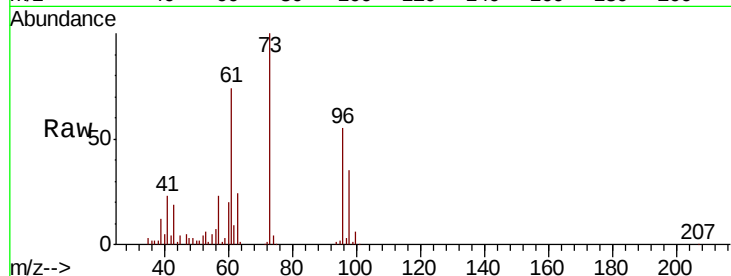




#19  
Methyl tert-butyl Ether  
Concen: 53.192 ug/l  
RT: 5.48 min Scan# 605  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

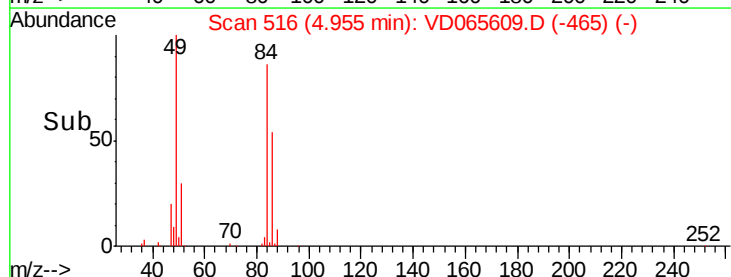
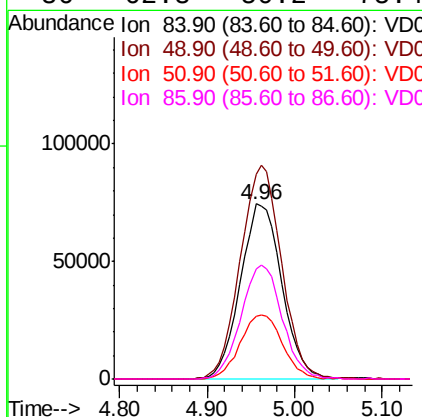
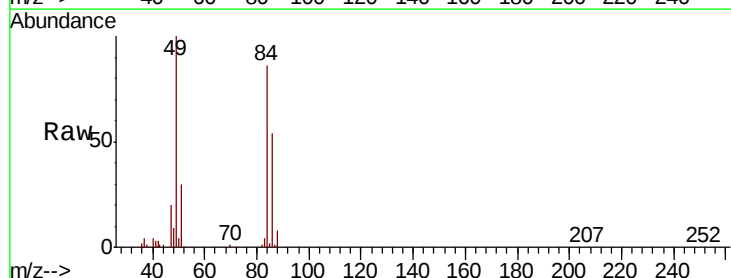
Instrument :  
MSVOA\_D  
ClientSampled :

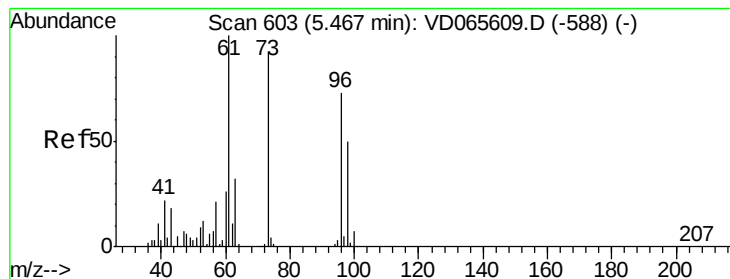
Tot Ion: 73 Resp: 462369  
Ion Ratio Lower Upper  
73 100  
57 22.7 18.2 27.2



#20  
Methylene Chloride  
Concen: 45.441 ug/l  
RT: 4.96 min Scan# 516  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 84 Resp: 240581  
Ion Ratio Lower Upper  
84 100  
49 116.8 93.4 140.2  
51 35.6 28.5 42.7  
86 62.8 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 51.523 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

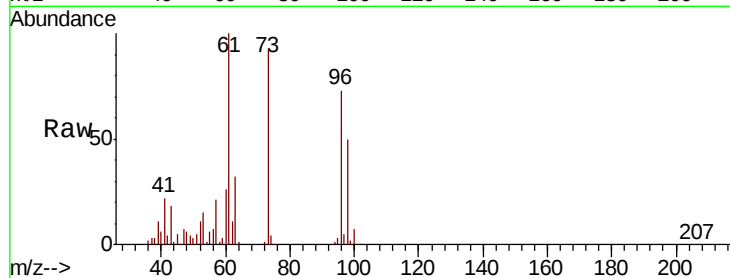
Tot Ion: 96 Resp: 262930

Ion Ratio Lower Upper

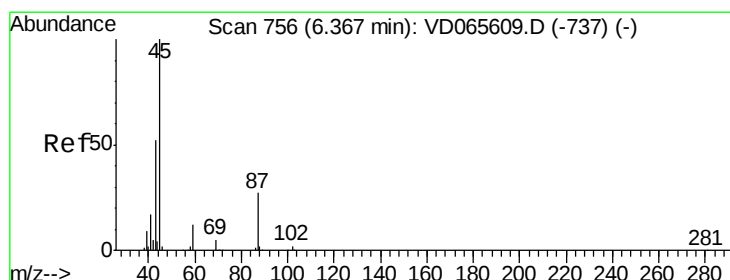
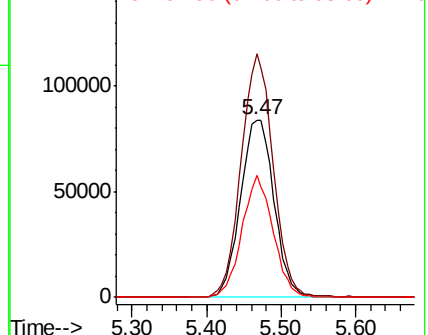
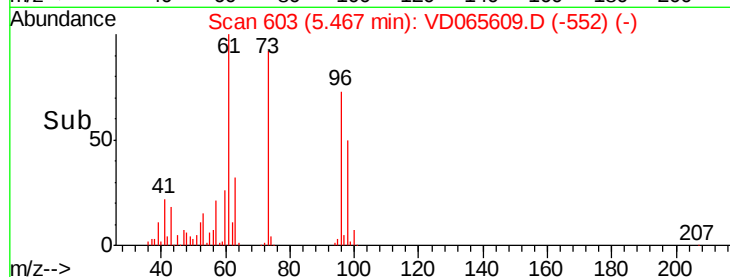
96 100

61 137.2 109.8 164.6

98 68.5 54.8 82.2



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



#22

Diisopropyl ether

Concen: 53.920 ug/l

RT: 6.37 min Scan# 756

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Tgt Ion: 45 Resp: 691283

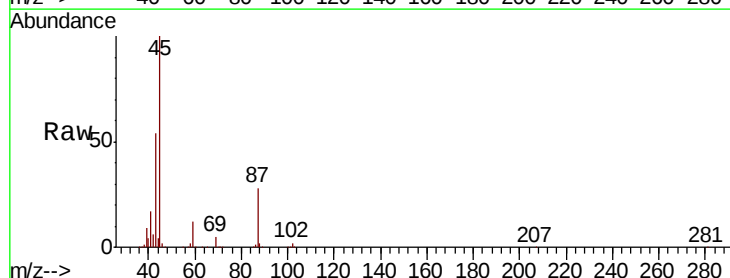
Ion Ratio Lower Upper

45 100

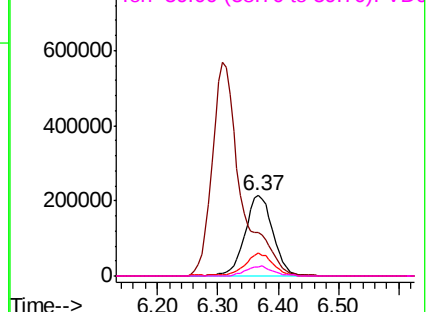
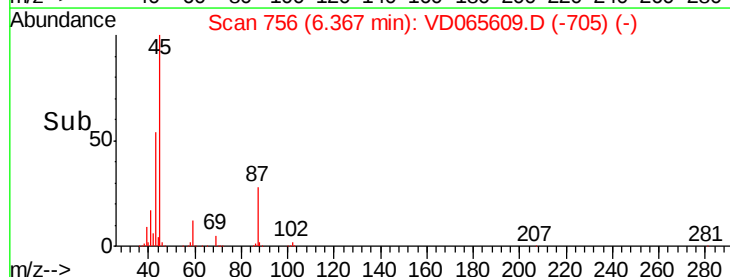
43 53.1 42.5 63.7

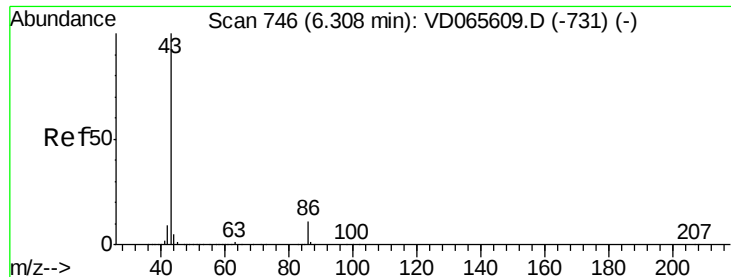
87 27.9 22.3 33.5

59 11.9 9.5 14.3



Abundance Ion 45.00 (44.70 to 45.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 87.00 (86.70 to 87.70): VDC  
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 283.701 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

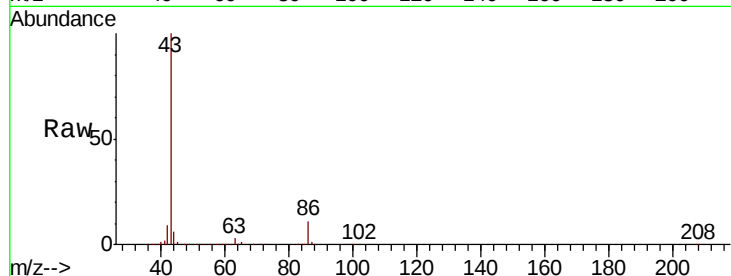
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 43 Resp: 1868954

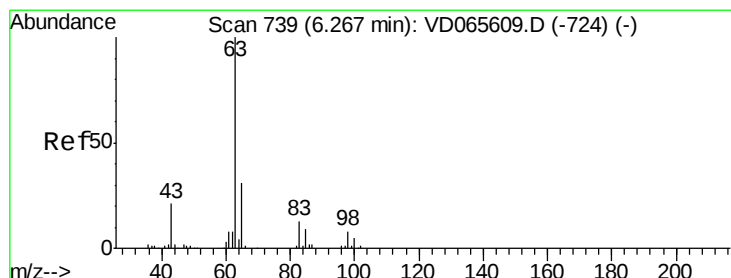
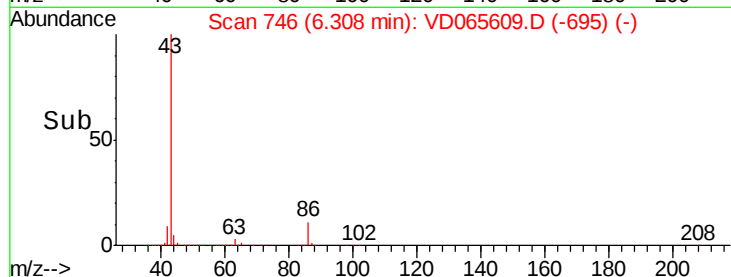
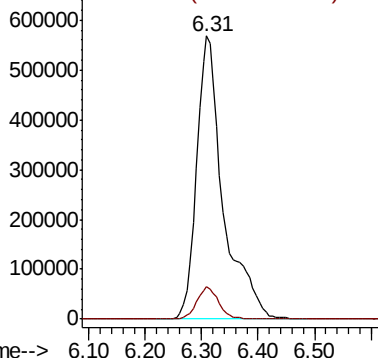
Ion Ratio Lower Upper

43 100

86 11.4 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.770 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

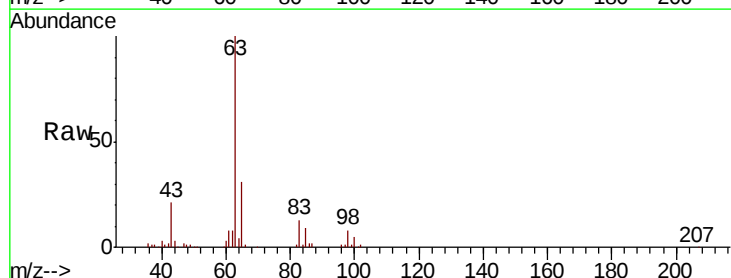
Tgt Ion: 63 Resp: 424502

Ion Ratio Lower Upper

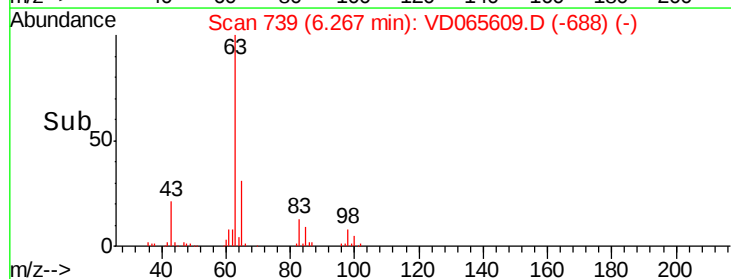
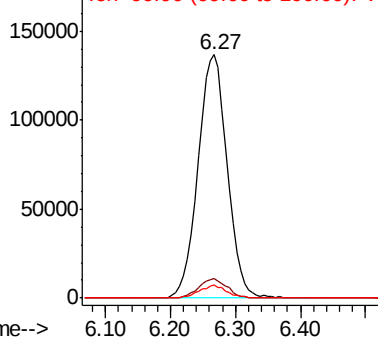
63 100

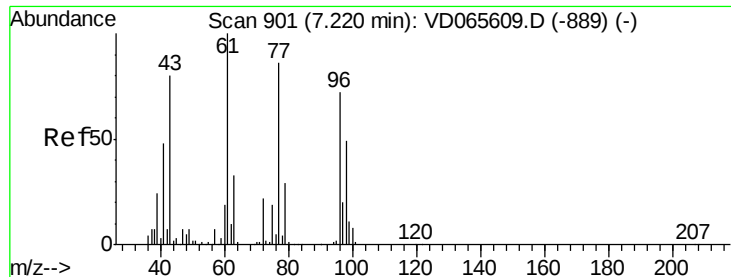
98 7.9 4.0 11.9

100 5.2 2.6 7.8



Abundance Ion 62.90 (62.60 to 63.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC  
Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 249.670 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

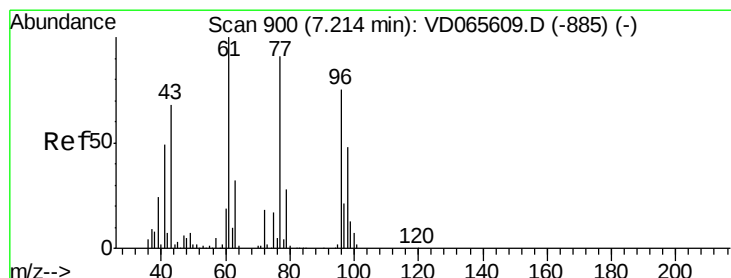
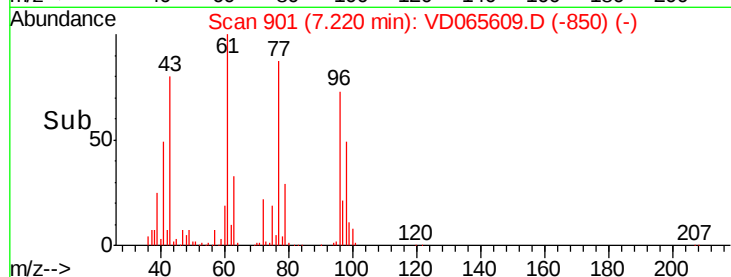
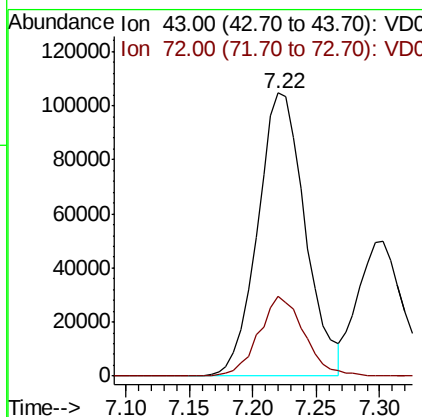
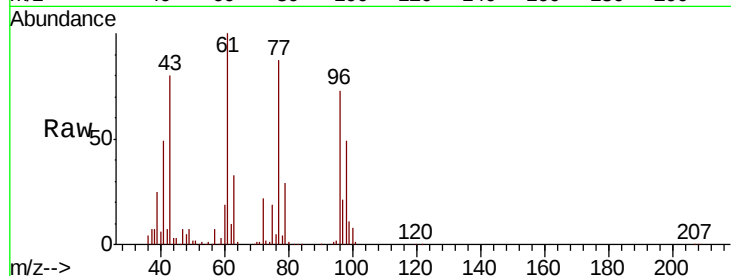
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 273703

Ion Ratio Lower Upper

43 100

72 28.1 22.5 33.7



#26

2,2-Dichloropropane

Concen: 48.966 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065609.D

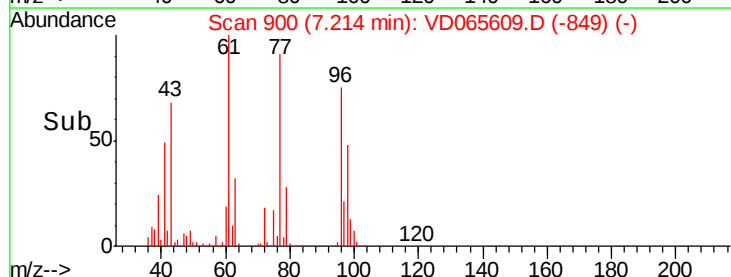
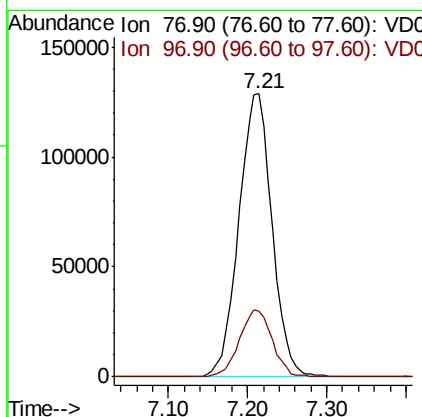
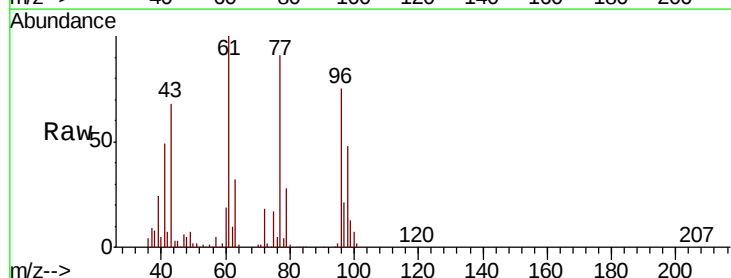
Acq: 09 Apr 2020 12:03

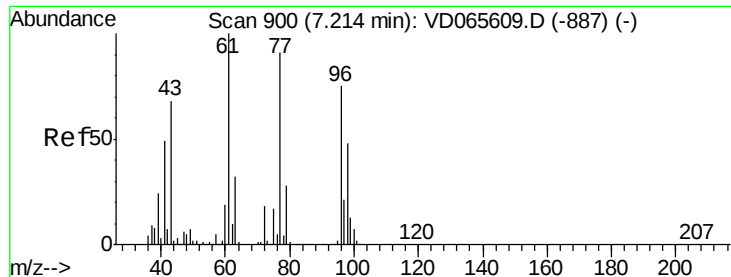
Tgt Ion: 77 Resp: 373759

Ion Ratio Lower Upper

77 100

97 23.4 11.7 35.1



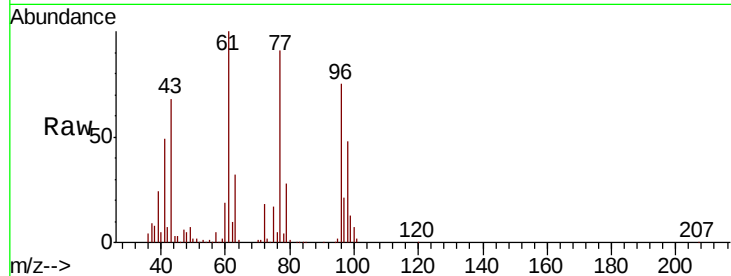


#27

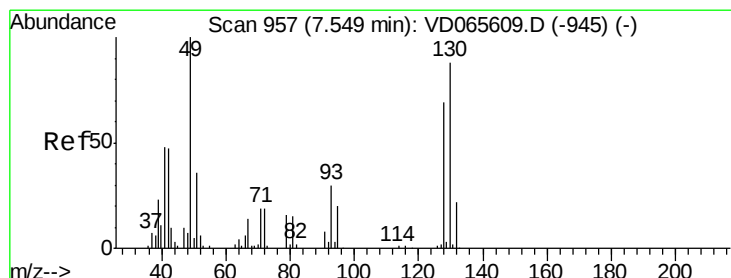
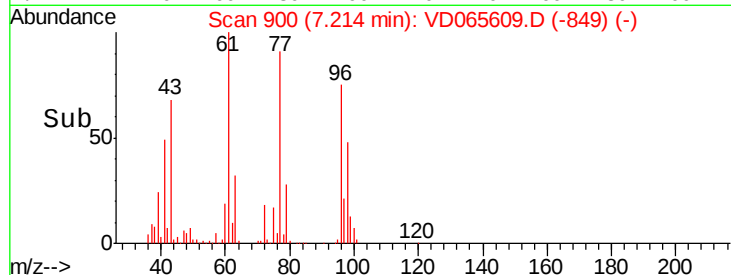
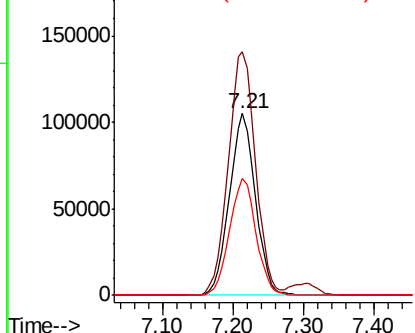
cis-1,2-Dichloroethene  
 Concen: 51.717 ug/l  
 RT: 7.21 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 139.5 | 0.0   | 279.0 |
| 98      | 65.1  | 0.0   | 130.2 |



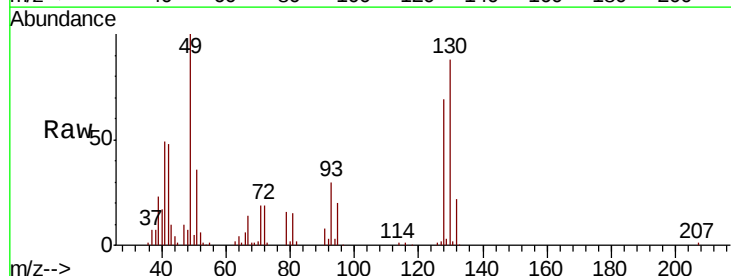
Abundance Ion 95.90 (95.60 to 96.60): VDC  
 Ion 60.90 (60.60 to 61.60): VDC  
 Ion 97.90 (97.60 to 98.60): VDC



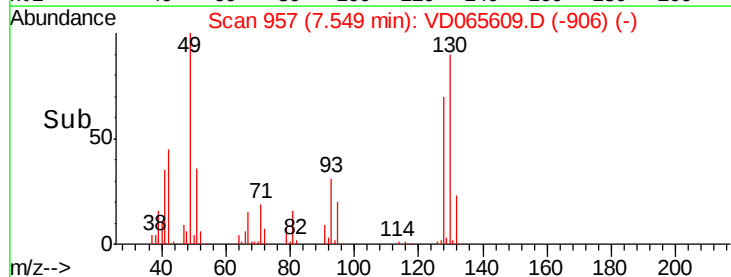
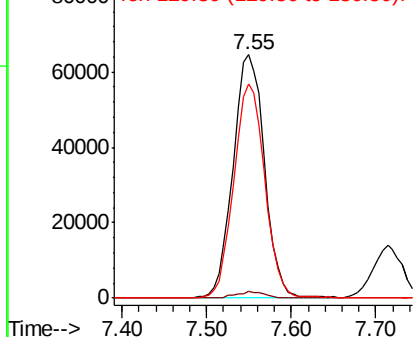
#28

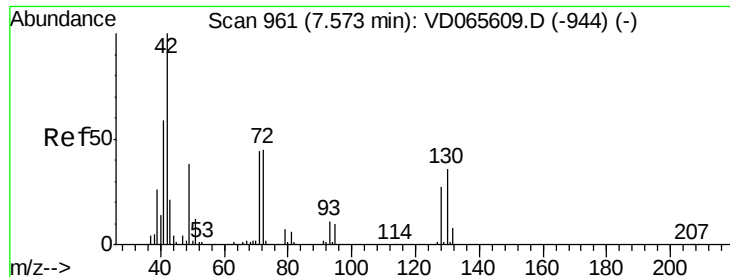
Bromochloromethane  
 Concen: 48.469 ug/l  
 RT: 7.55 min Scan# 957  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.4   | 0.0   | 4.8   |
| 130     | 86.8  | 69.4  | 104.2 |



Abundance Ion 48.90 (48.60 to 49.60): VDC  
 Ion 128.80 (128.50 to 129.50): V  
 Ion 129.80 (129.50 to 130.50): V

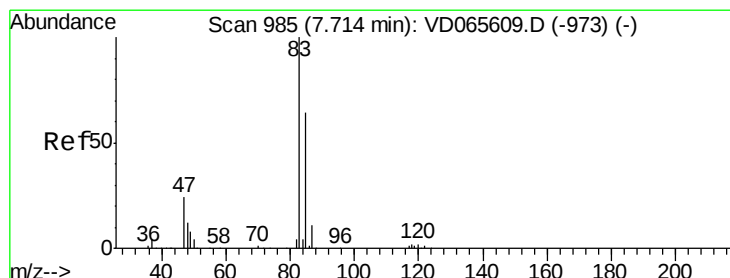
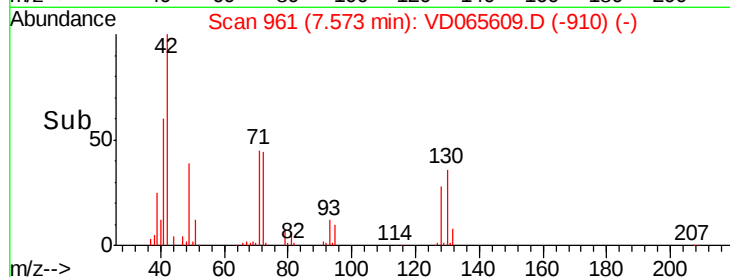
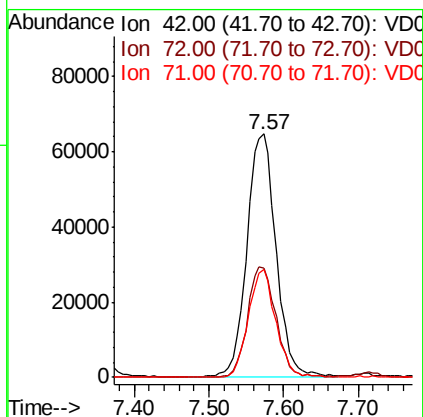
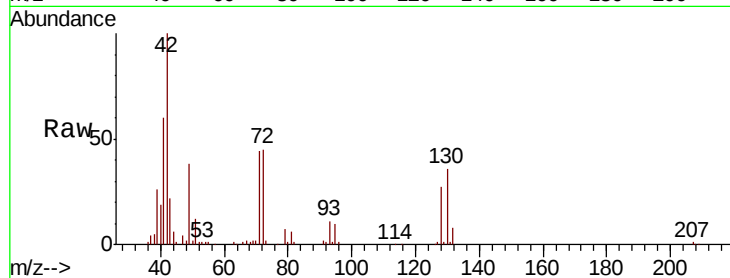




#29  
Tetrahydrofuran  
Concen: 256.077 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

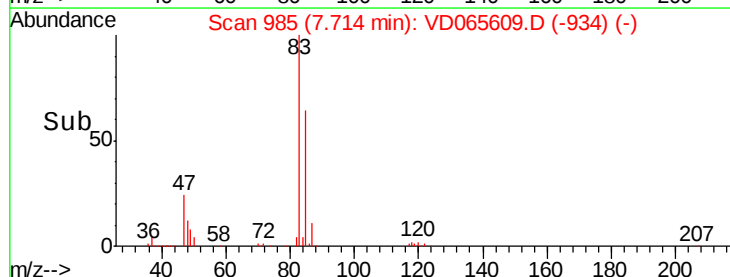
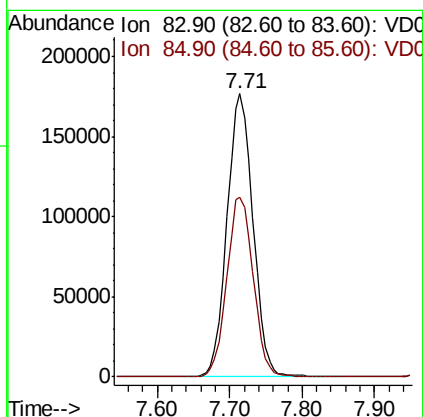
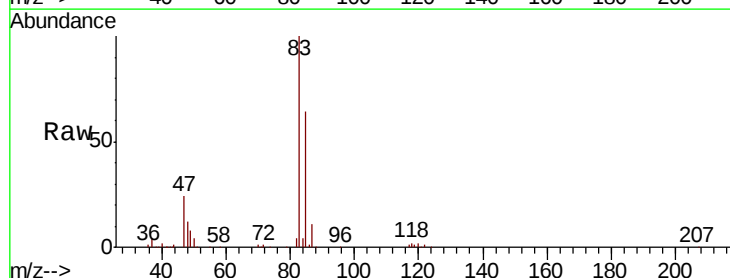
Instrument :  
MSVOA\_D  
ClientSampleId :

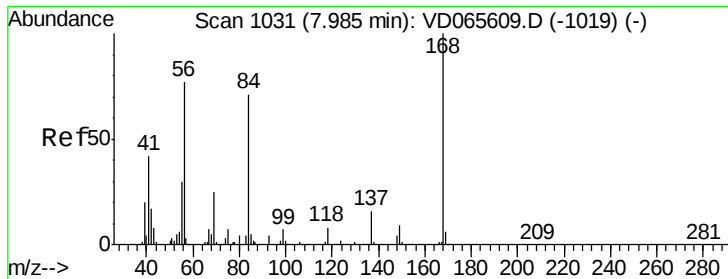
Tot Ion: 42 Resp: 176409  
Ion Ratio Lower Upper  
42 100  
72 44.1 35.3 52.9  
71 41.4 33.1 49.7



#30  
Chloroform  
Concen: 49.239 ug/l  
RT: 7.71 min Scan# 985  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 83 Resp: 439751  
Ion Ratio Lower Upper  
83 100  
85 63.6 50.9 76.3

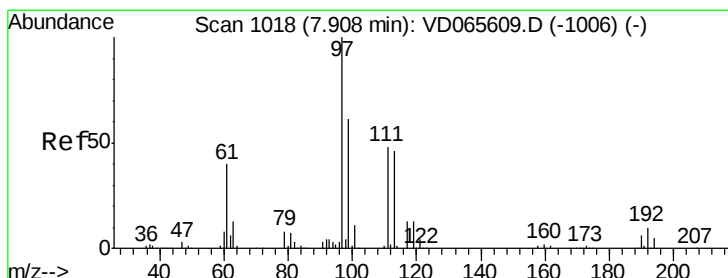
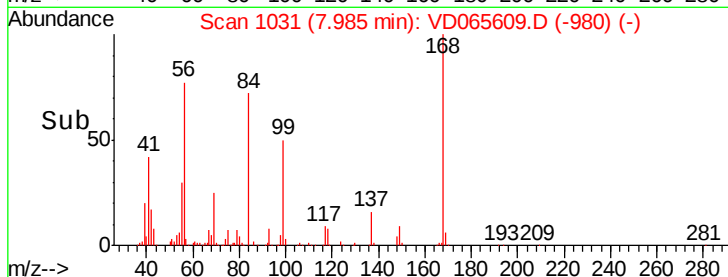
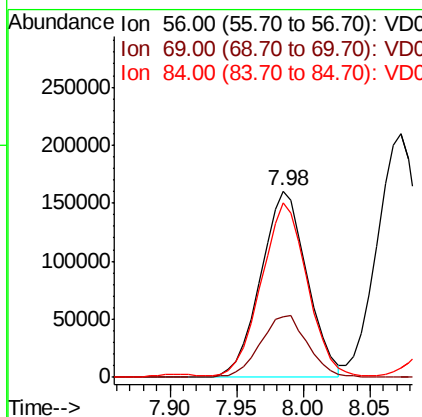
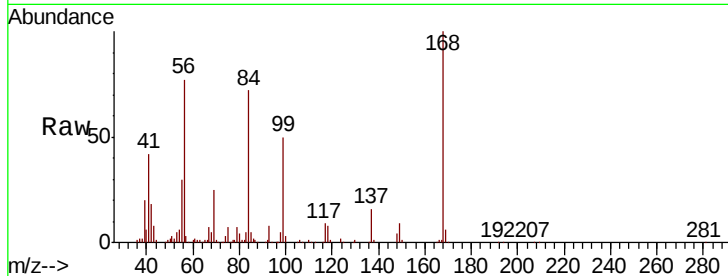




#31  
Cyclohexane  
Concen: 48.812 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

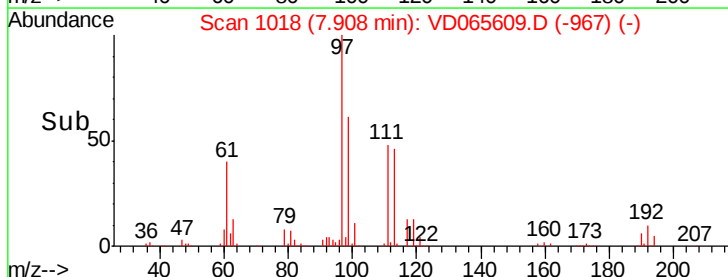
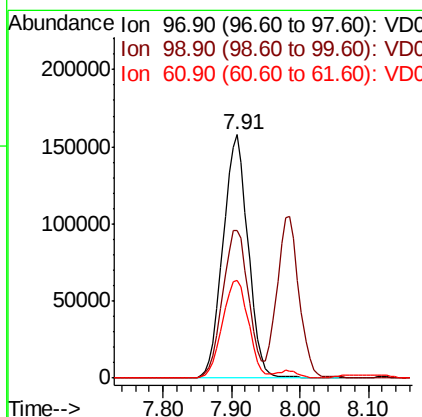
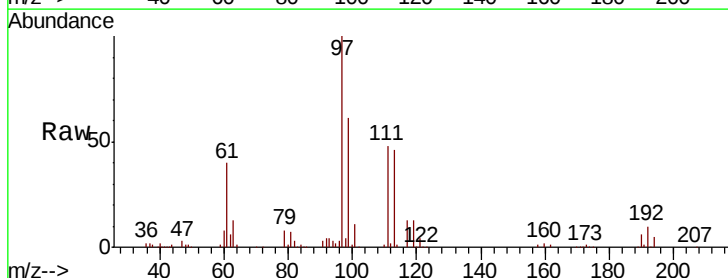
Instrument :  
MSVOA\_D  
ClientSampleId :

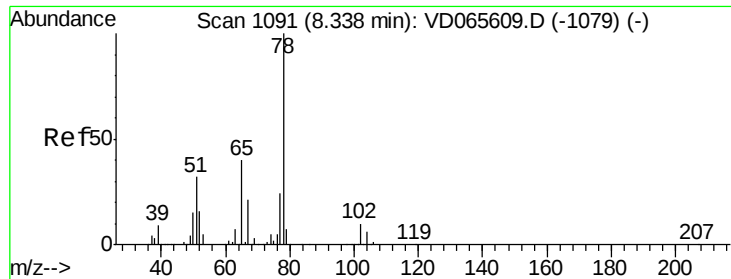
Tot Ion: 56 Resp: 386213  
Ion Ratio Lower Upper  
56 100  
69 32.8 26.2 39.4  
84 92.1 73.7 110.5



#32  
1,1,1-Trichloroethane  
Concen: 49.595 ug/l  
RT: 7.91 min Scan# 1018  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 97 Resp: 400290  
Ion Ratio Lower Upper  
97 100  
99 62.7 50.2 75.2  
61 41.9 33.5 50.3





#33

1,2-Dichloroethane-d4

Concen: 47.703 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

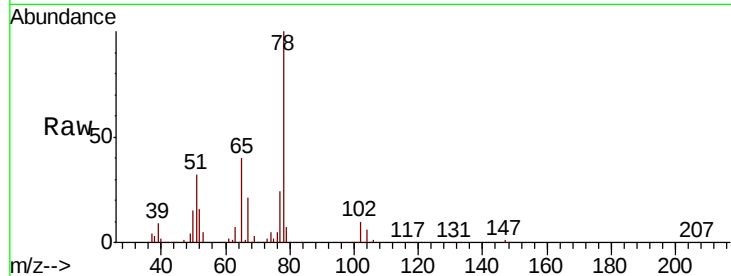
ClientSampleId :

Tot Ion: 65 Resp: 211584

Ion Ratio Lower Upper

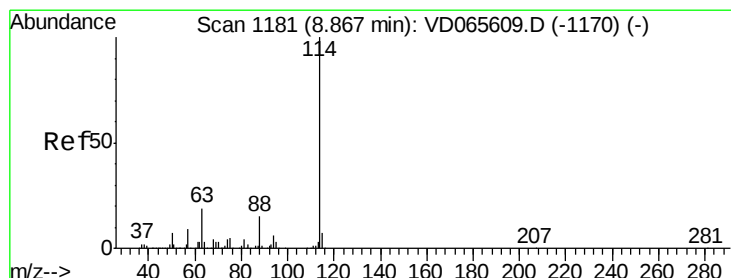
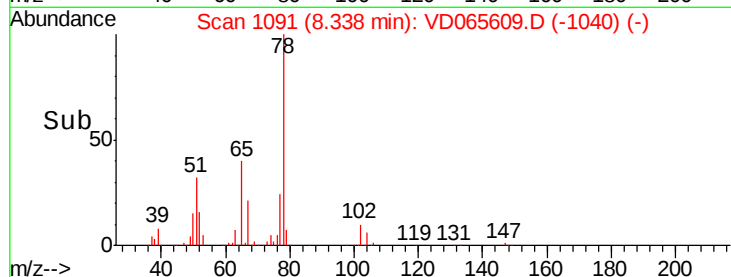
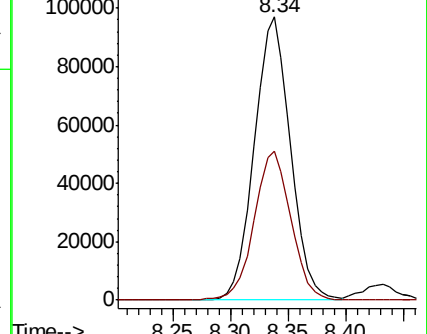
65 100

67 53.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): V

Ion 66.90 (66.60 to 67.60): V



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

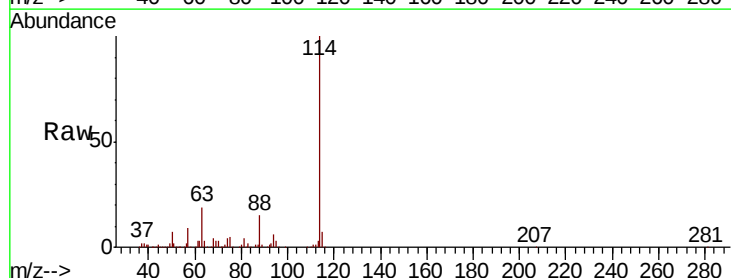
Tgt Ion: 114 Resp: 642750

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.2

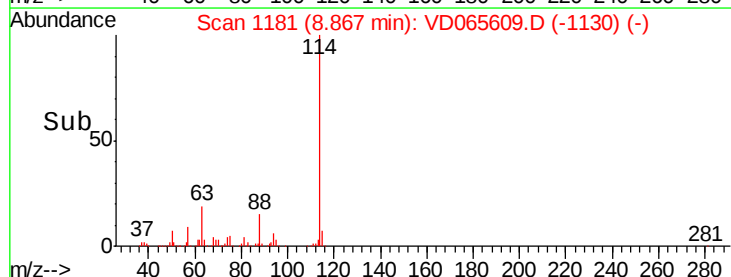
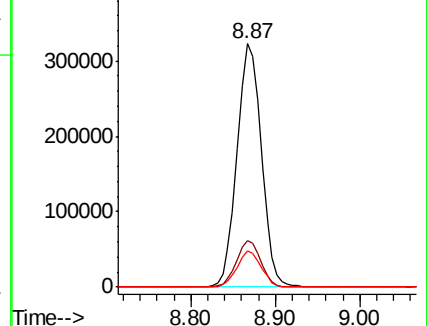
88 14.8 0.0 29.6

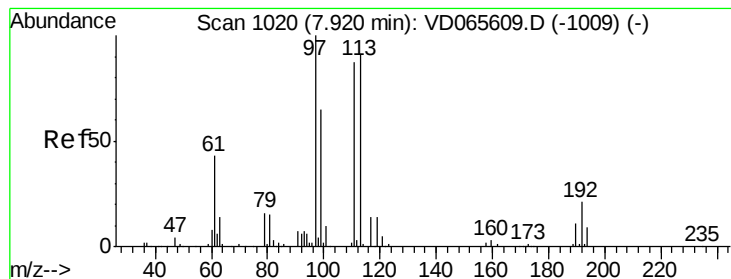


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V





#35

Dibromofluoromethane

Concen: 50.368 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :  
MSVOA\_D  
ClientSampleId :

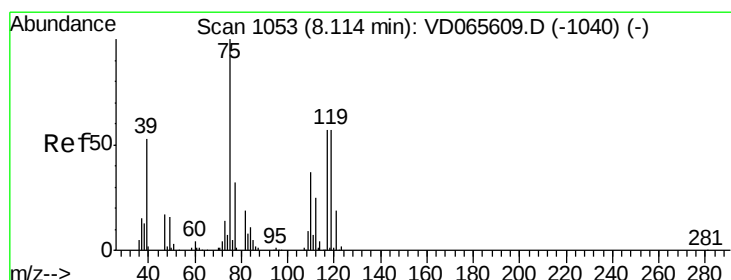
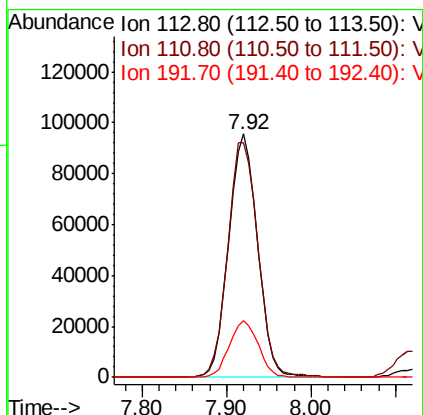
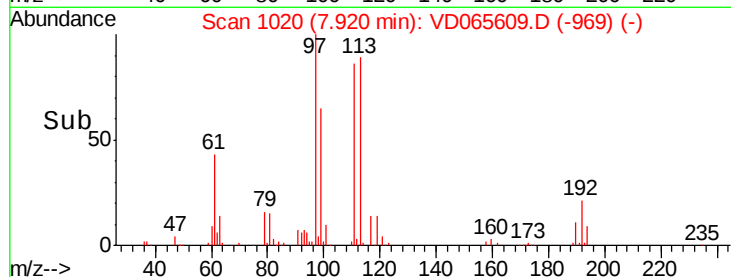
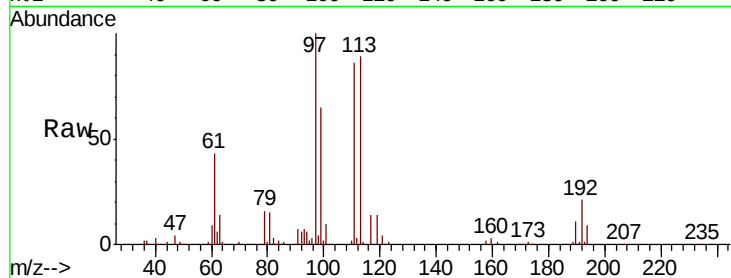
Tot Ion:113 Resp: 226175

Ion Ratio Lower Upper

113 100

111 100.7 80.6 120.8

192 23.2 18.6 27.8



#36

1,1-Dichloropropene

Concen: 52.675 ug/l

RT: 8.11 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

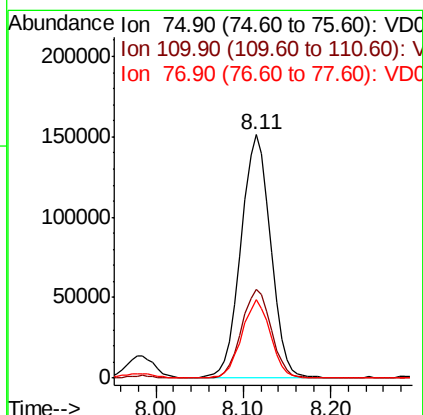
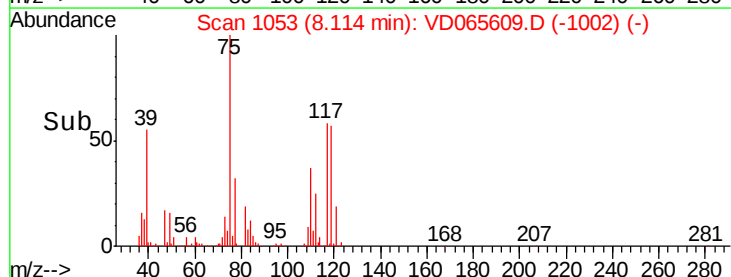
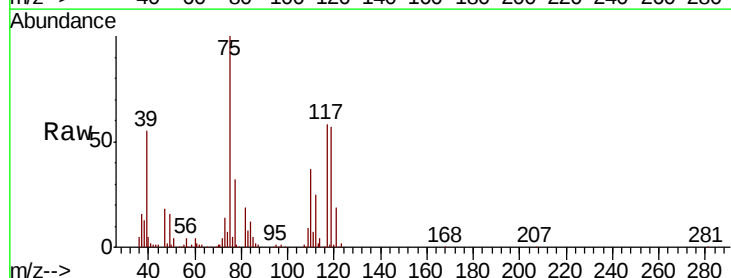
Tgt Ion: 75 Resp: 348566

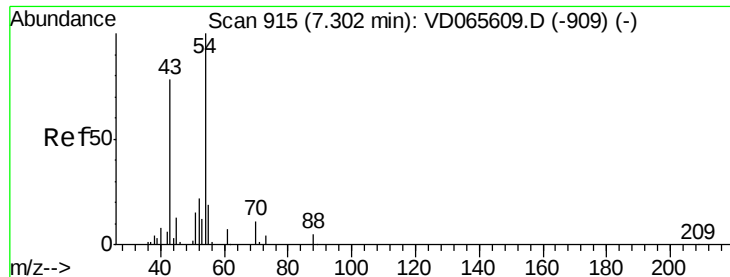
Ion Ratio Lower Upper

75 100

110 36.6 18.3 54.9

77 31.3 25.0 37.6





#37

Ethyl Acetate

Concen: 51.726 ug/l

RT: 7.30 min Scan# 915

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

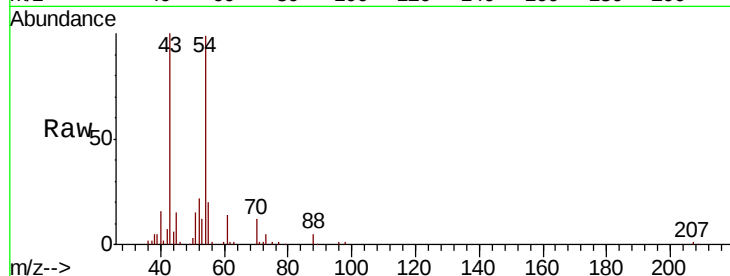
Tot Ion: 43 Resp: 127090

Ion Ratio Lower Upper

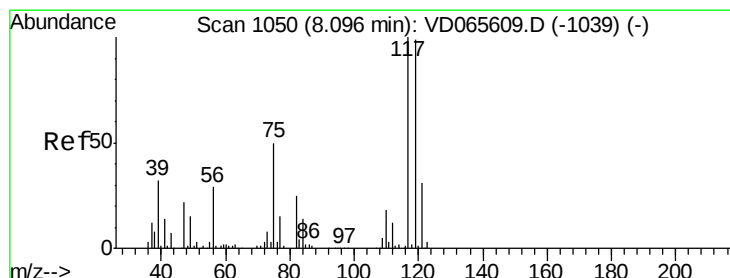
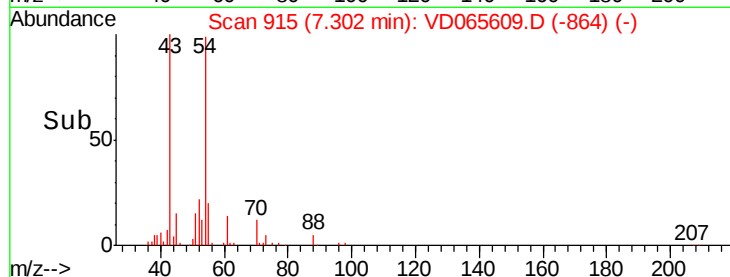
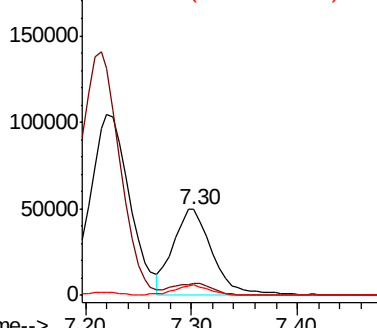
43 100

61 14.1 11.3 16.9

70 10.8 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 51.450 ug/l

RT: 8.10 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

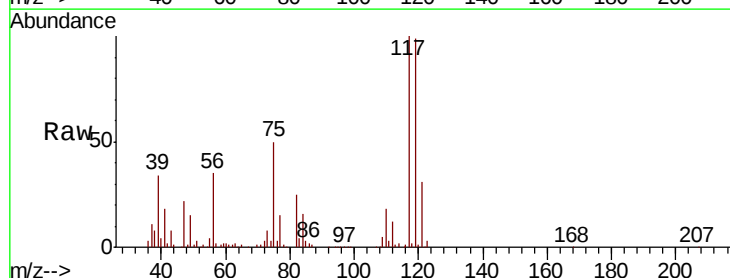
Tgt Ion: 117 Resp: 369686

Ion Ratio Lower Upper

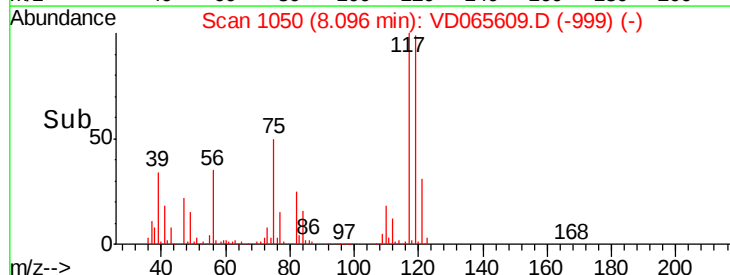
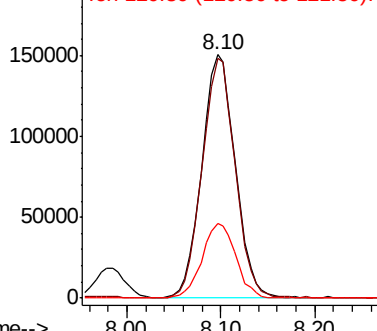
117 100

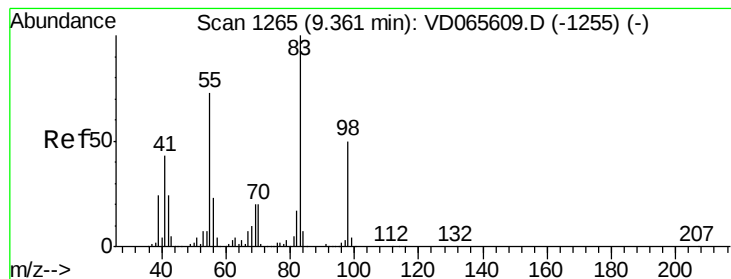
119 98.6 78.9 118.3

121 30.8 24.6 37.0



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





#39

Methvlcvclohexane

Concen: 56.127 ug/l

RT: 9.36 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

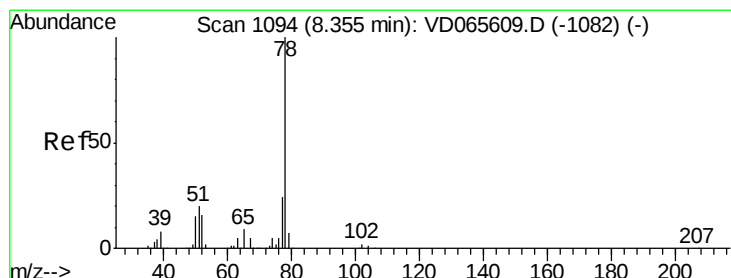
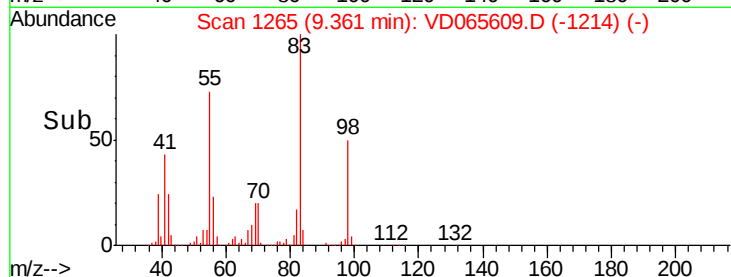
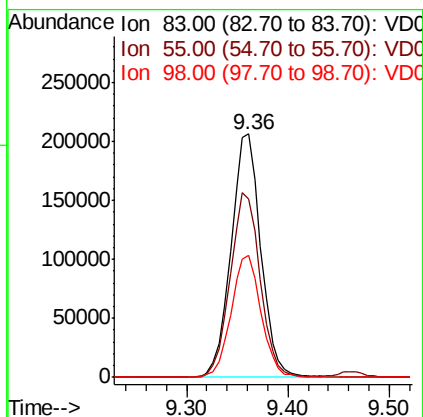
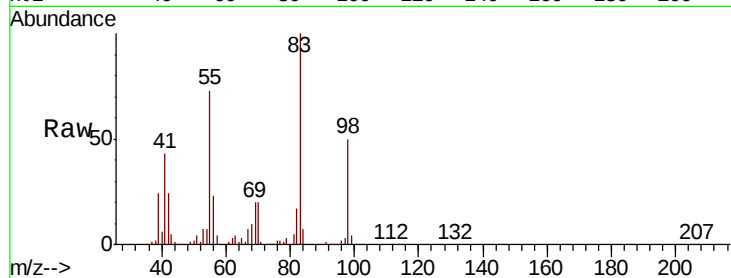
Tot Ion: 83 Resp: 420447

Ion Ratio Lower Upper

83 100

55 73.4 58.7 88.1

98 50.3 40.2 60.4



#40

Benzene

Concen: 52.364 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VD065609.D

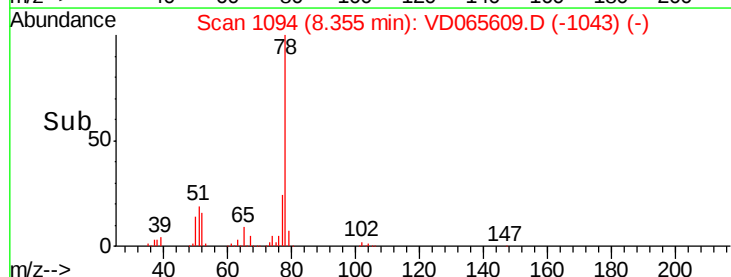
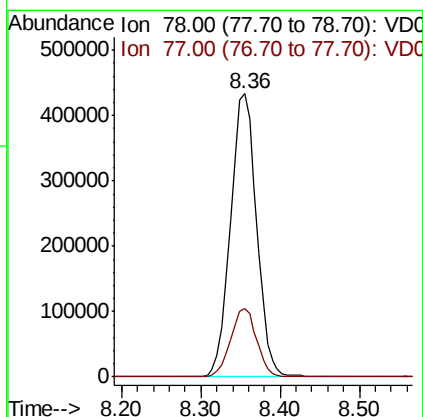
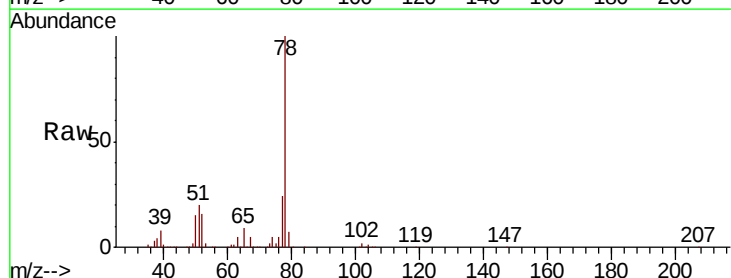
Acq: 09 Apr 2020 12:03

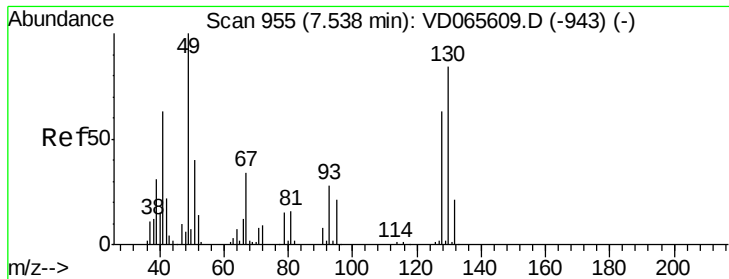
Tgt Ion: 78 Resp: 990012

Ion Ratio Lower Upper

78 100

77 24.2 19.4 29.0





#41

Methacrylonitrile

Concen: 124.868 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.03 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 41 Resp: 179335

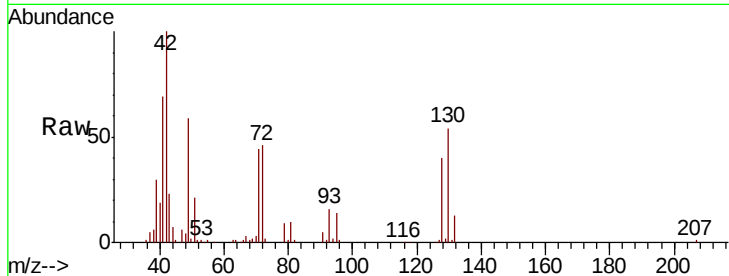
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

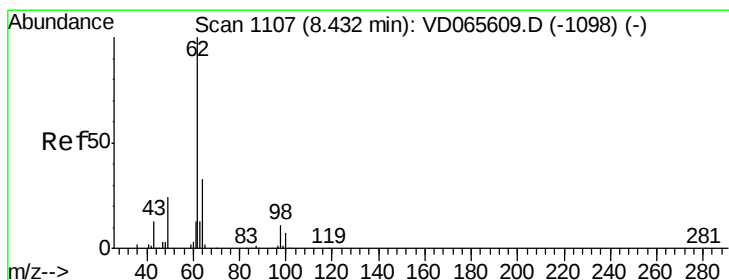
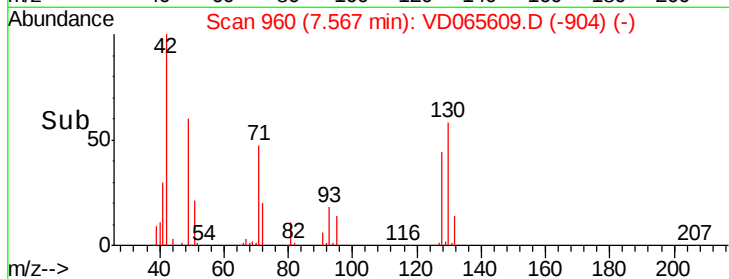
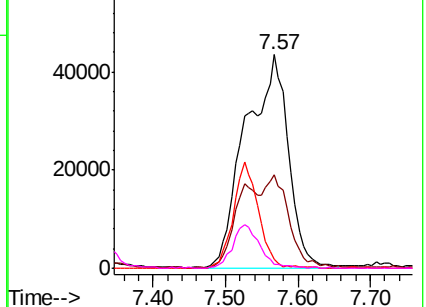


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 50.458 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD065609.D

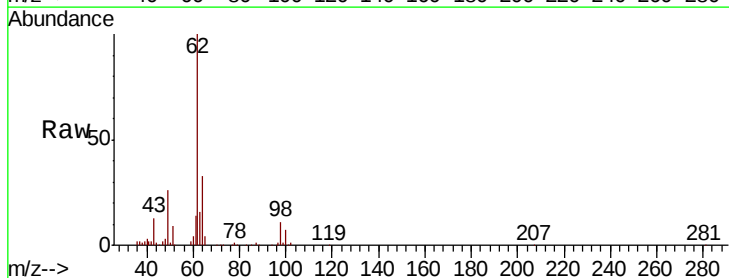
Acq: 09 Apr 2020 12:03

Tgt Ion: 62 Resp: 266464

Ion Ratio Lower Upper

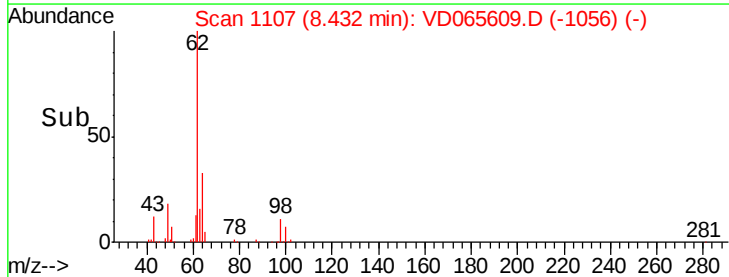
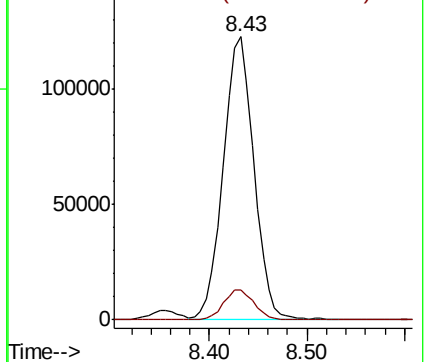
62 100

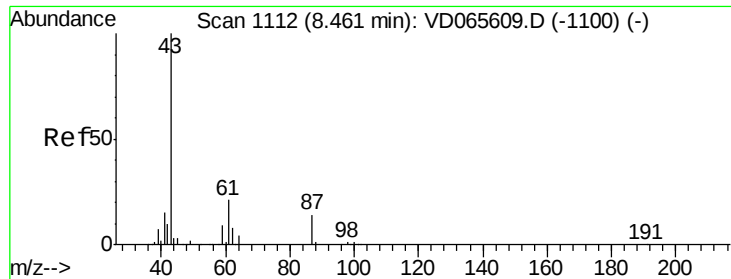
98 10.5 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

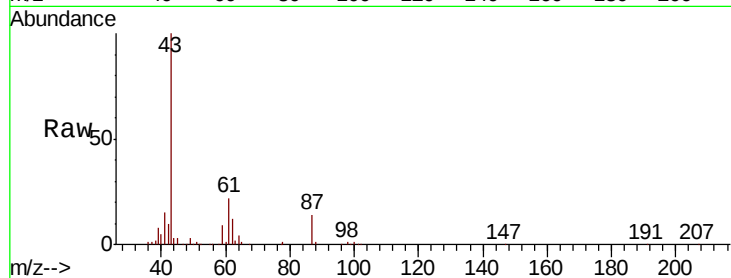




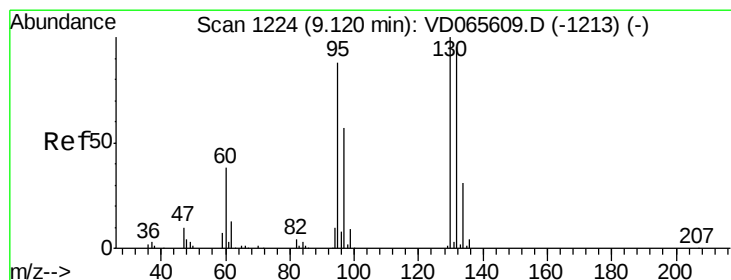
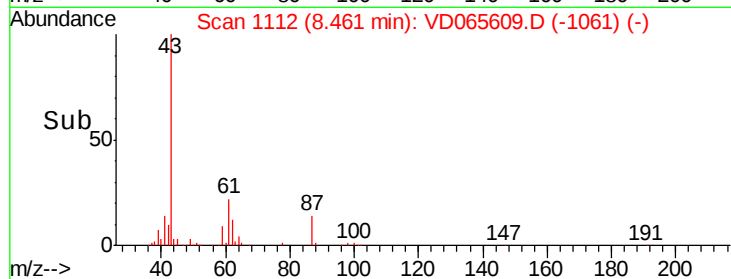
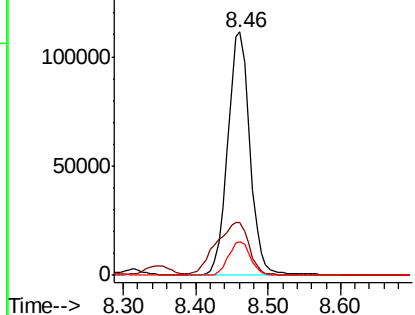
#43  
Isopropyl Acetate  
Concen: 53.081 ug/l  
RT: 8.46 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Instrument :  
MSVOA\_D  
ClientSampled :

| Tot Ion   | 43    | Resp  | 237946 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 32.4  | 25.9  | 38.9   |
| 87        | 13.6  | 10.9  | 16.3   |

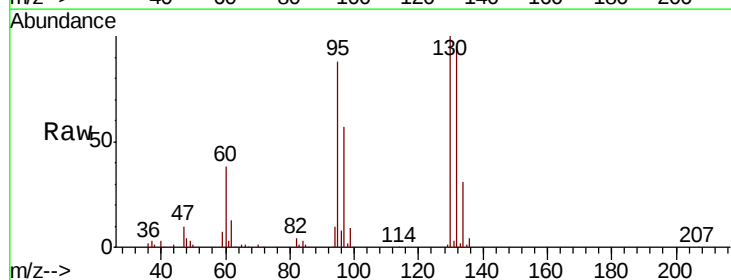


Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 61.00 (60.70 to 61.70): VDC  
Ion 87.00 (86.70 to 87.70): VDC

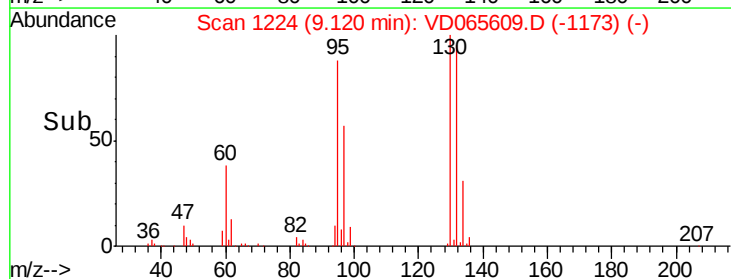
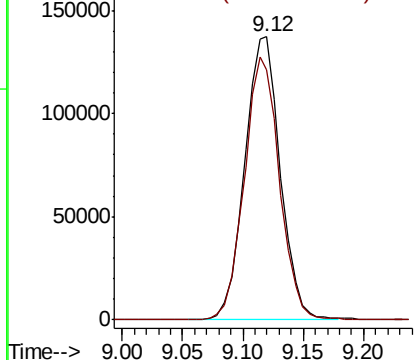


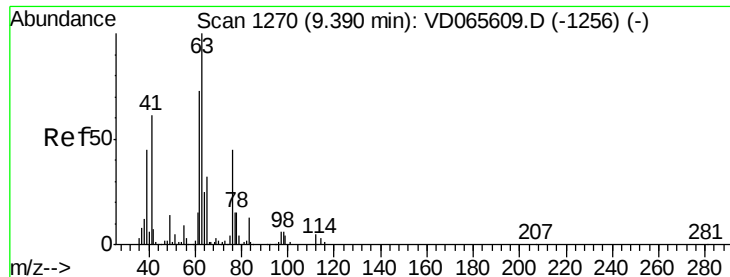
#44  
Trichloroethene  
Concen: 51.706 ug/l  
RT: 9.12 min Scan# 1224  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

| Tgt Ion   | 130   | Resp  | 280965 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 88.4  | 0.0   | 176.8  |



Abundance Ion 129.80 (129.50 to 130.50): VDC  
Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 52.091 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

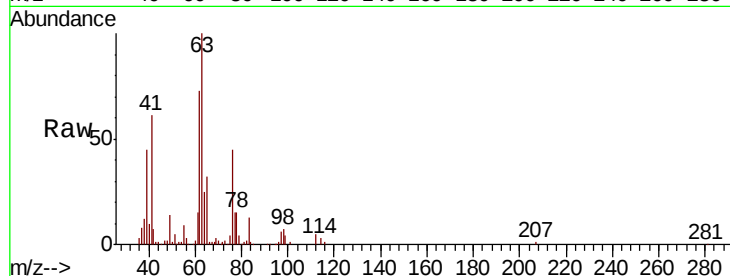
ClientSampled :

Tot Ion: 63 Resp: 239815

Ion Ratio Lower Upper

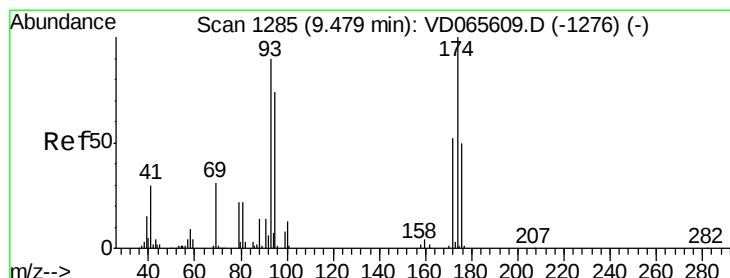
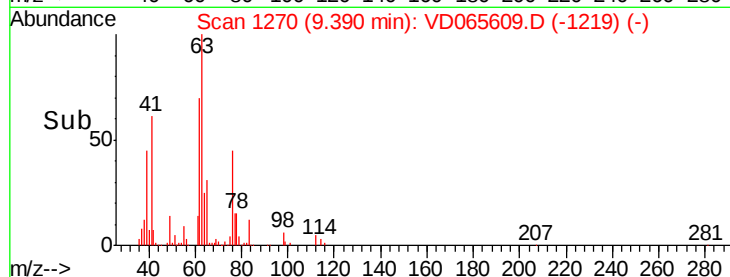
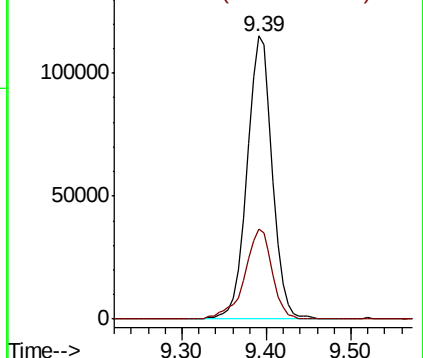
63 100

65 31.6 25.3 37.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 50.508 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

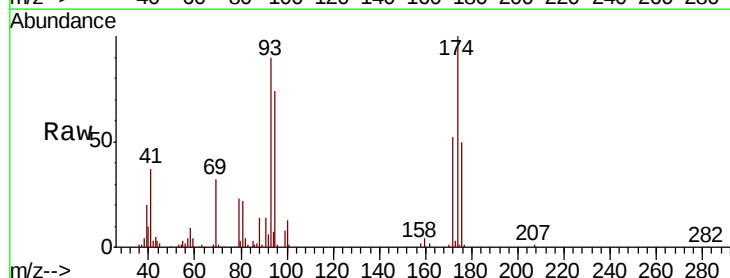
Tgt Ion: 93 Resp: 124987

Ion Ratio Lower Upper

93 100

95 83.1 66.5 99.7

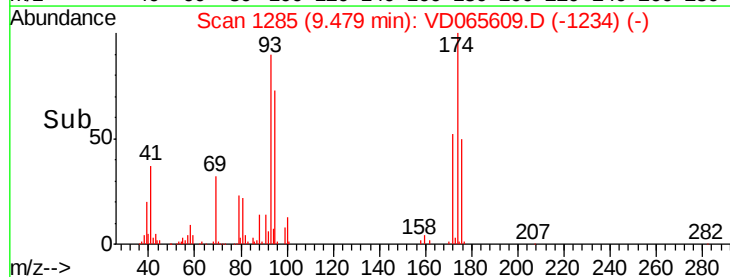
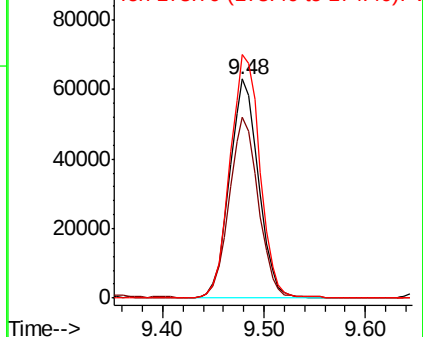
174 114.4 91.5 137.3

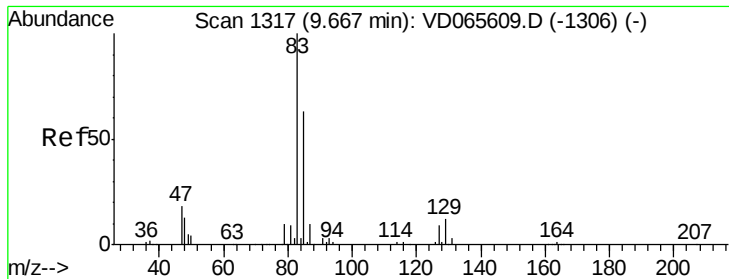


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 51.596 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

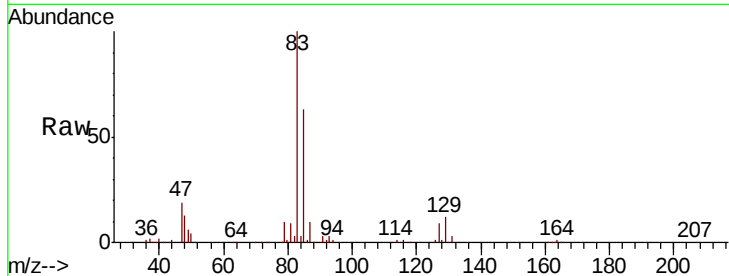
Tot Ion: 83 Resp: 334818

Ion Ratio Lower Upper

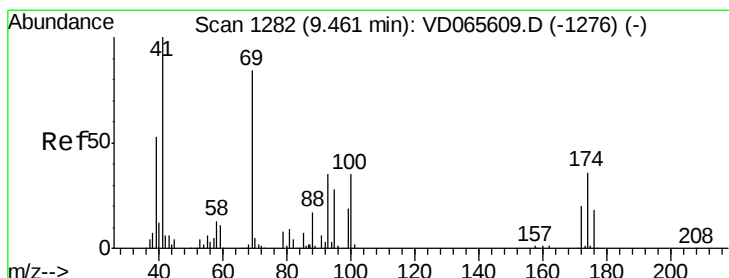
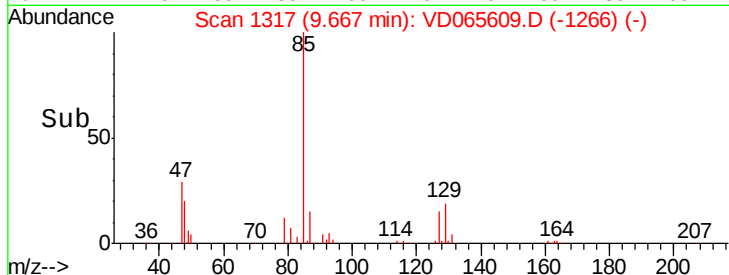
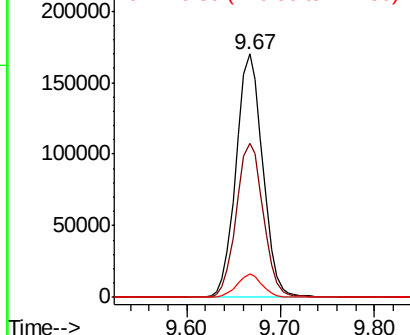
83 100

85 63.4 50.7 76.1

127 9.5 7.6 11.4



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 84.90 (84.60 to 85.60): VDC  
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 53.984 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

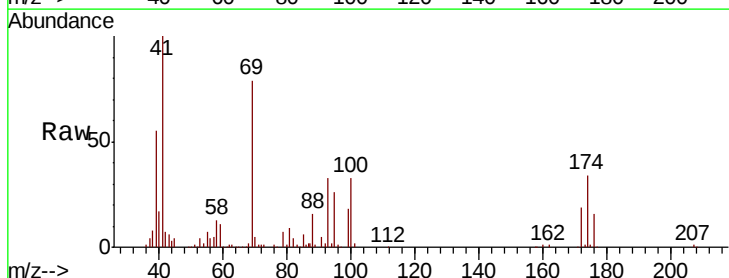
Tgt Ion: 41 Resp: 112237

Ion Ratio Lower Upper

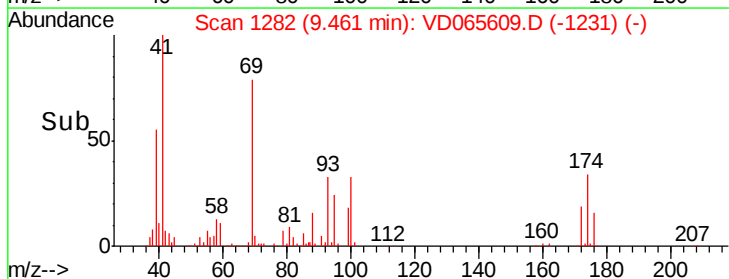
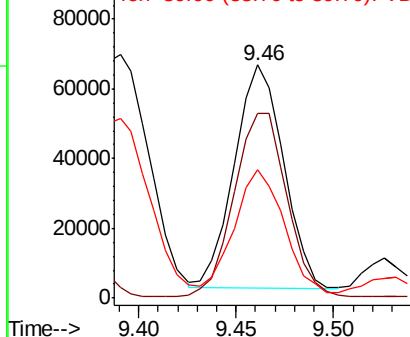
41 100

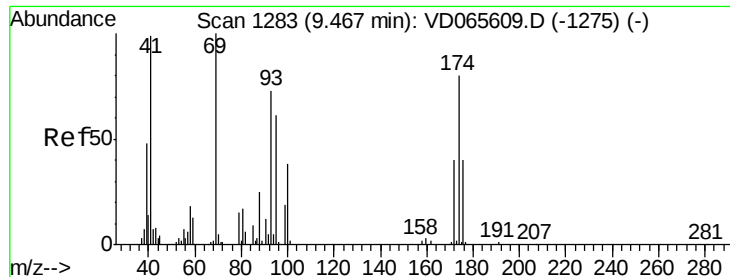
69 90.5 72.4 108.6

39 54.4 43.5 65.3



Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC

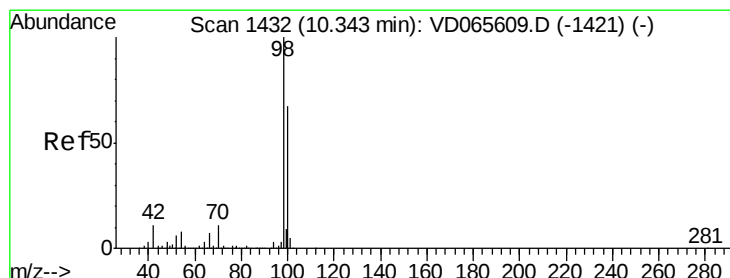
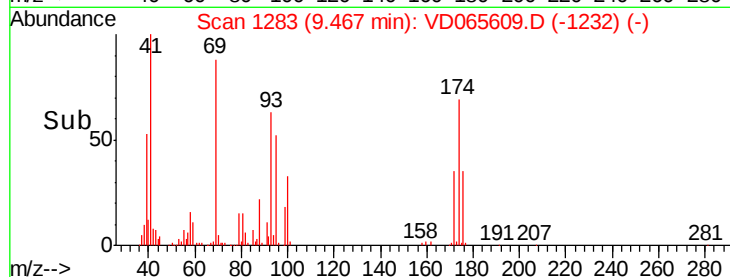
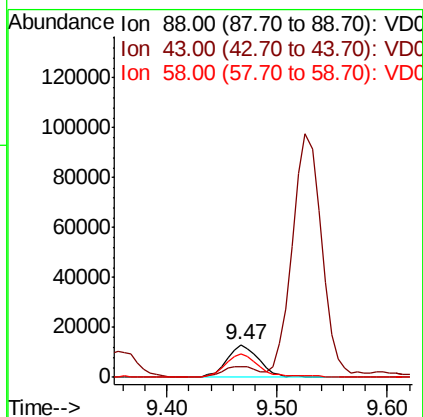
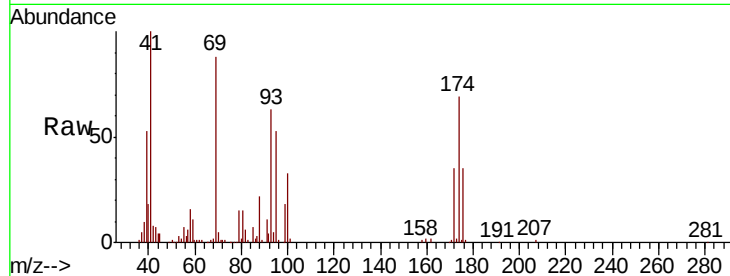




#49  
1,4-Dioxane  
Concen: 1034.282 ug/l  
RT: 9.47 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

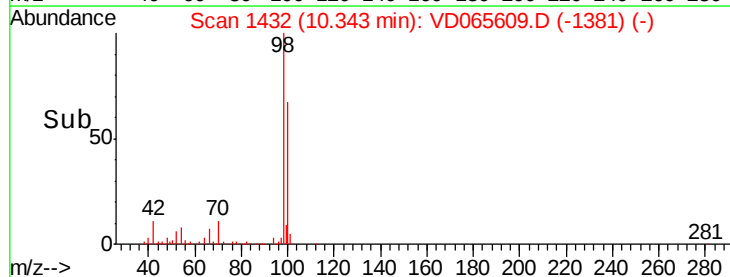
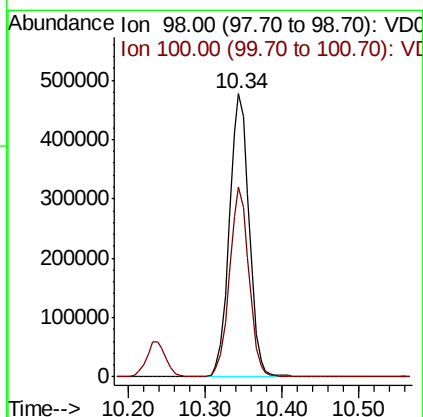
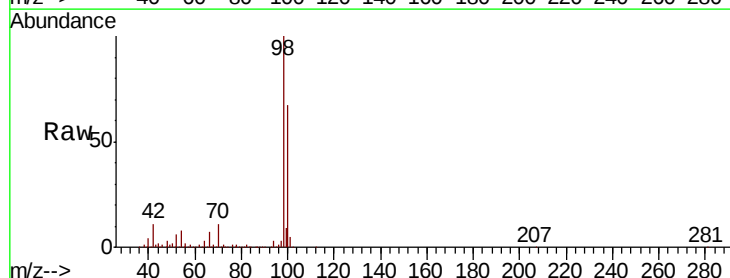
Instrument :  
MSVOA\_D  
ClientSampleId :

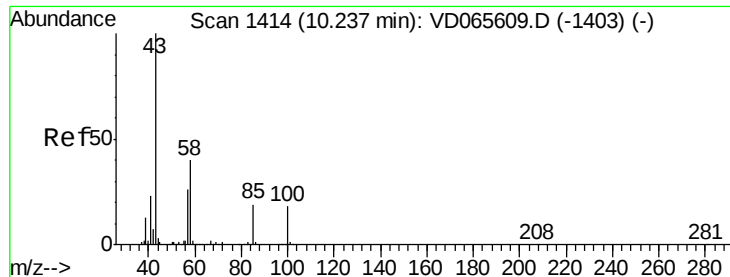
Tot Ion: 88 Resp: 27106  
Ion Ratio Lower Upper  
88 100  
43 37.3 29.8 44.8  
58 72.1 57.7 86.5



#50  
Toluene-d8  
Concen: 52.248 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 98 Resp: 856749  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.6 79.0

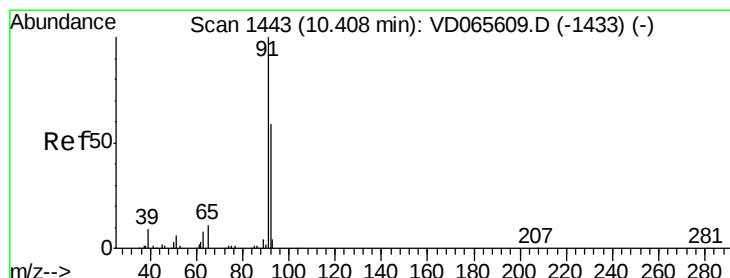
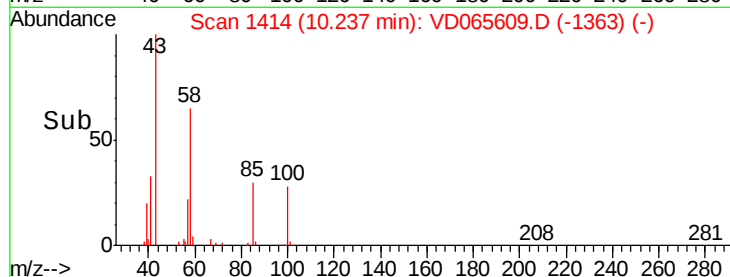
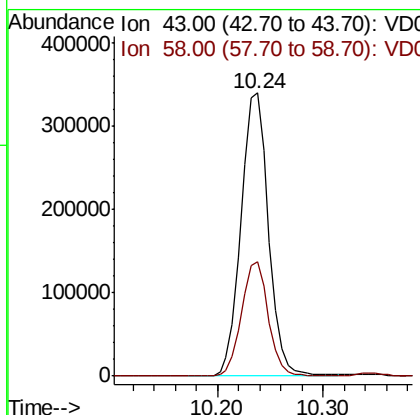
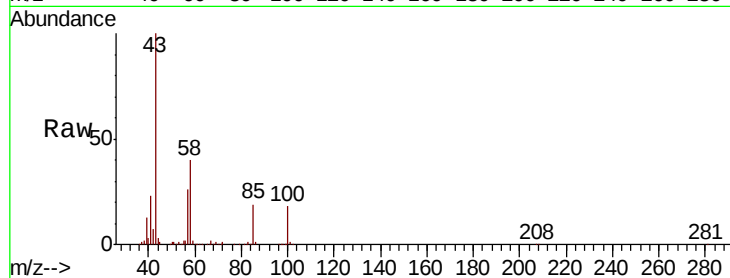




#51  
4-Methyl-2-Pentanone  
Concen: 266.381 ug/l  
RT: 10.24 min Scan# 1414  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

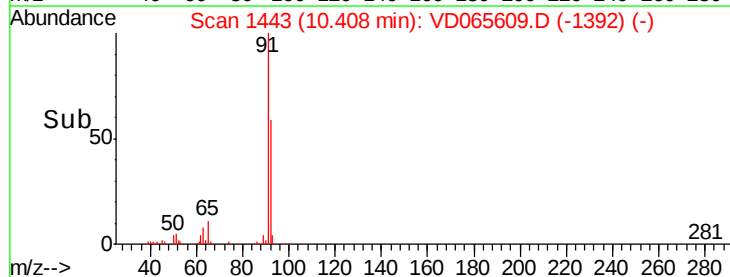
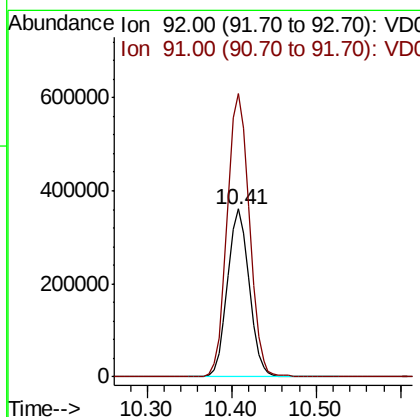
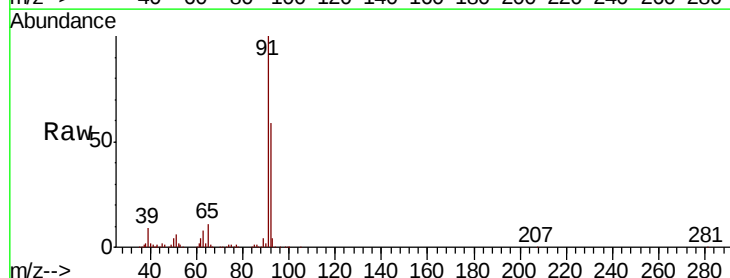
Instrument :  
MSVOA\_D  
ClientSampleId :

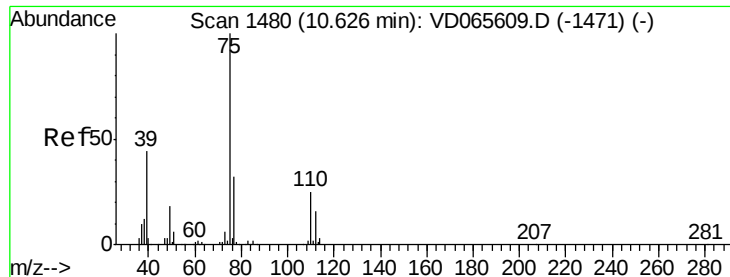
Tot Ion: 43 Resp: 615372  
Ion Ratio Lower Upper  
43 100  
58 39.3 31.4 47.2



#52  
Toluene  
Concen: 53.524 ug/l  
RT: 10.41 min Scan# 1443  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 92 Resp: 639839  
Ion Ratio Lower Upper  
92 100  
91 172.4 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 53.617 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

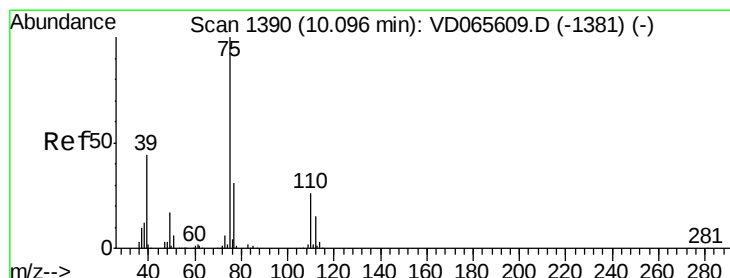
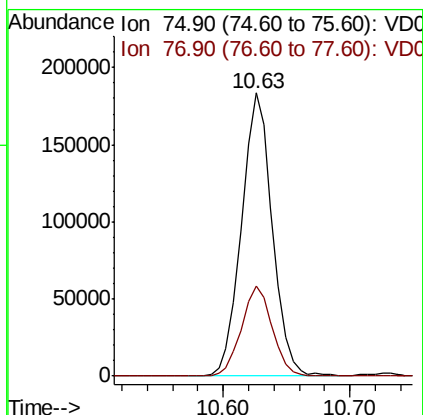
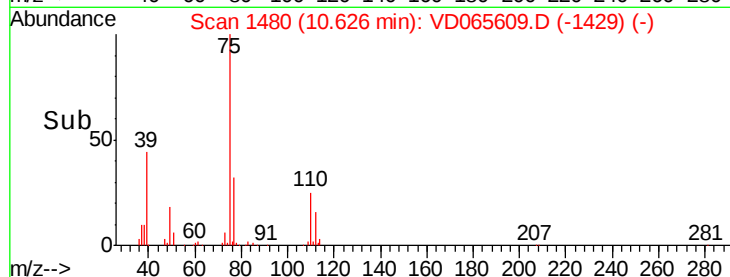
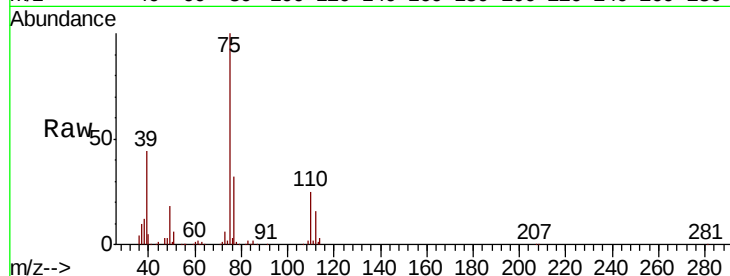
ClientSampleId :

Tot Ion: 75 Resp: 308817

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 53.227 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

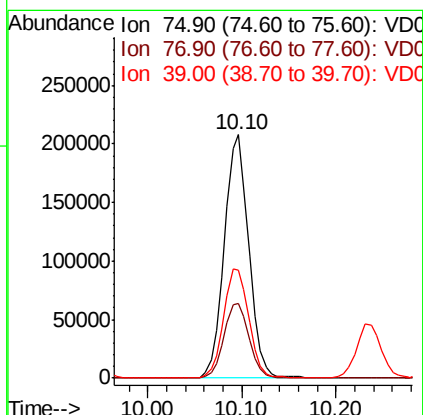
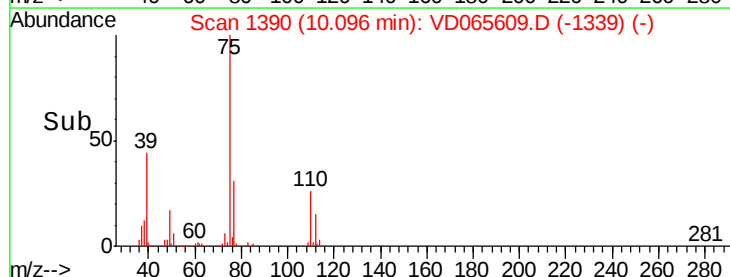
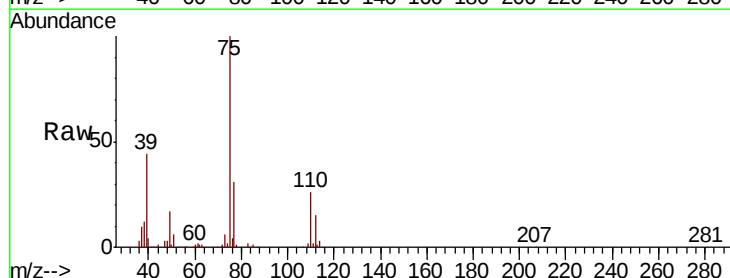
Tgt Ion: 75 Resp: 375365

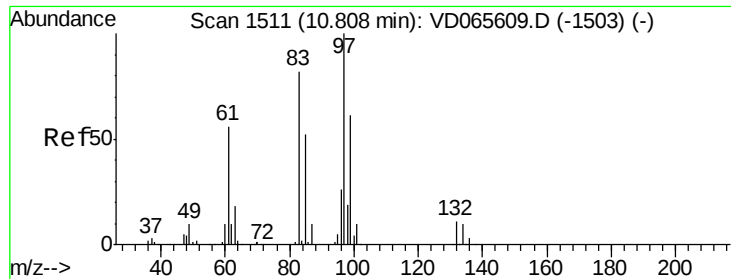
Ion Ratio Lower Upper

75 100

77 30.6 24.5 36.7

39 44.4 35.5 53.3





#55

1,1,2-Trichloroethane

Concen: 50.023 ug/l

RT: 10.81 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

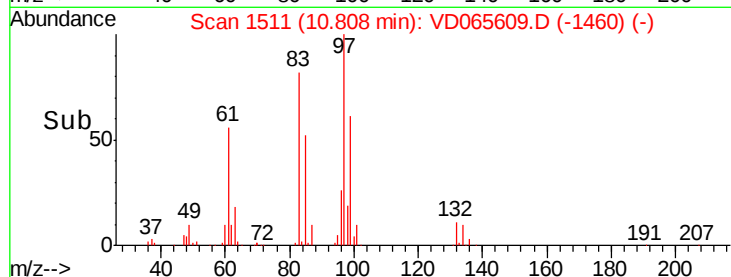
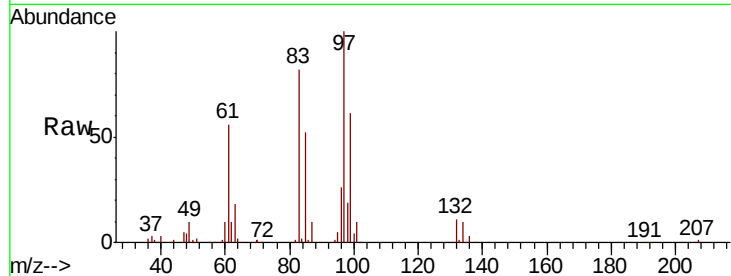
Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 97 Resp: 173710

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 82.1  | 65.7  | 98.5  |
| 85  | 52.0  | 41.6  | 62.4  |
| 99  | 60.9  | 48.7  | 73.1  |

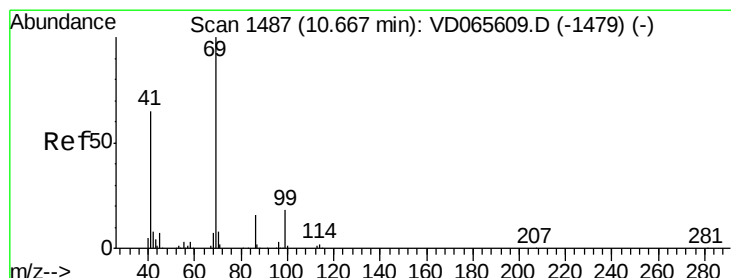
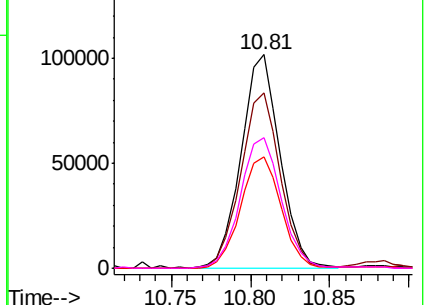


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 57.227 ug/l

RT: 10.67 min Scan# 1487

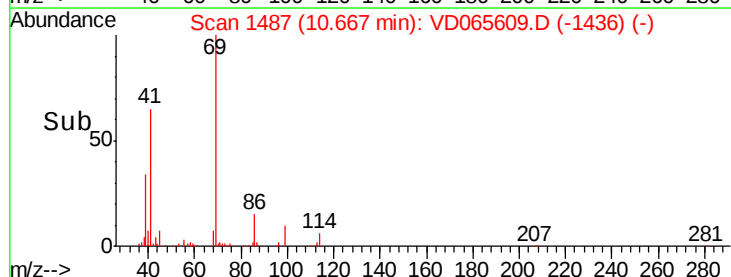
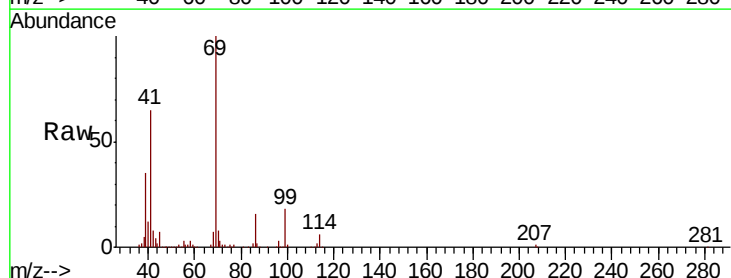
Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Tgt Ion: 69 Resp: 200429

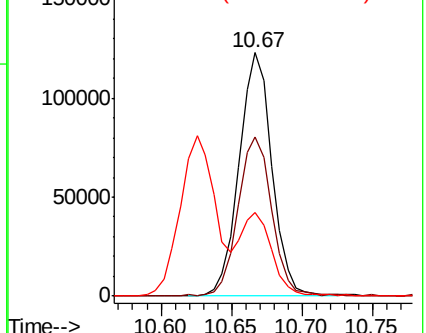
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 68.0  | 54.4  | 81.6  |
| 39  | 33.1  | 26.5  | 39.7  |

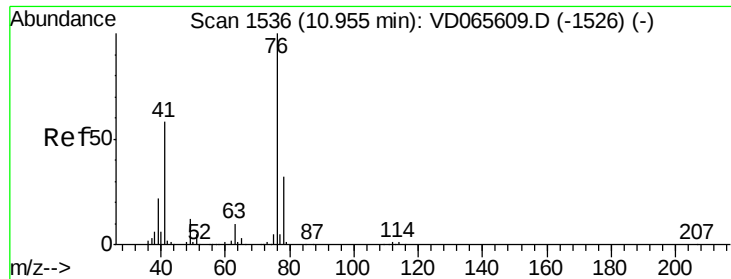


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 51.218 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

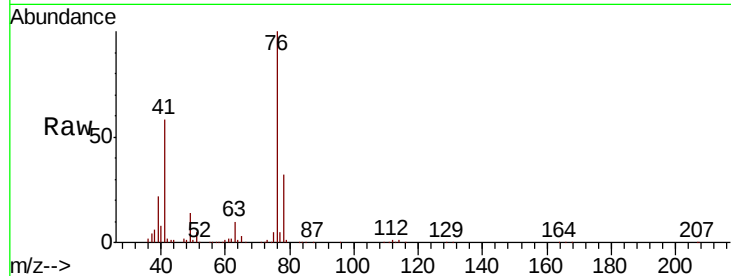
ClientSampleId :

Tot Ion: 76 Resp: 294598

Ion Ratio Lower Upper

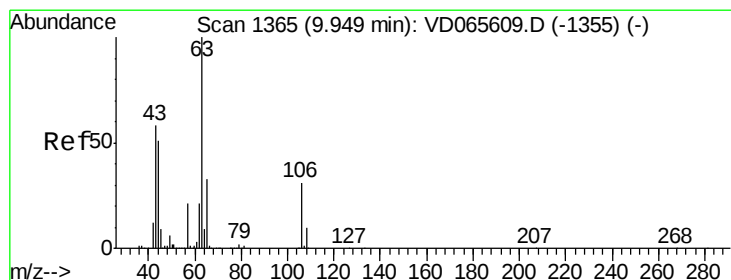
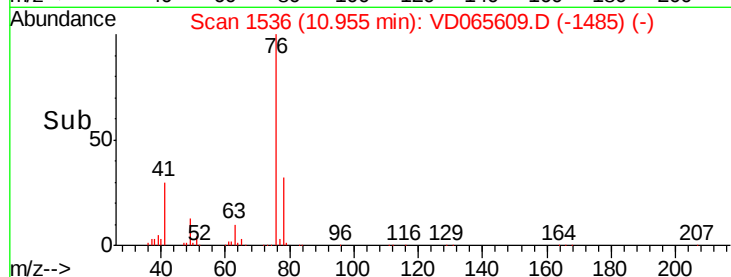
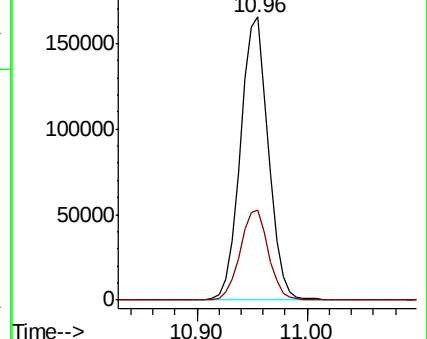
76 100

78 32.5 26.0 39.0



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 273.790 ug/l

RT: 9.95 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VD065609.D

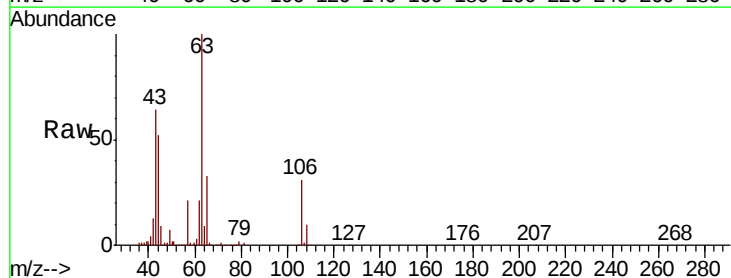
Acq: 09 Apr 2020 12:03

Tgt Ion: 63 Resp: 503572

Ion Ratio Lower Upper

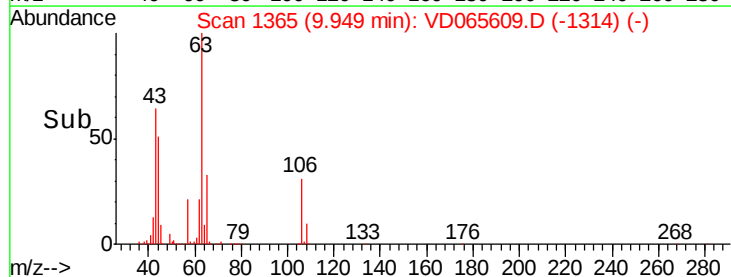
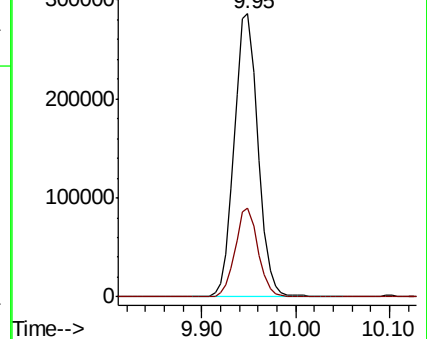
63 100

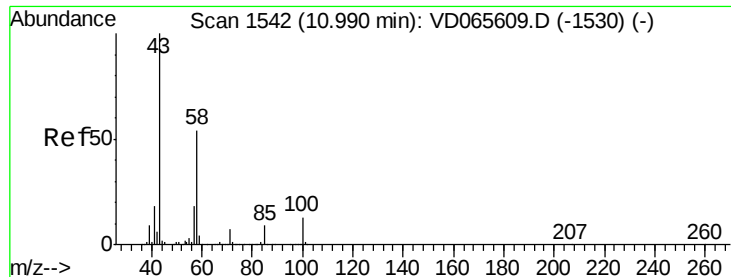
106 30.2 24.2 36.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC

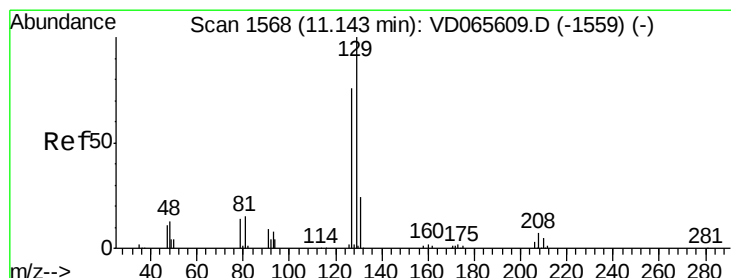
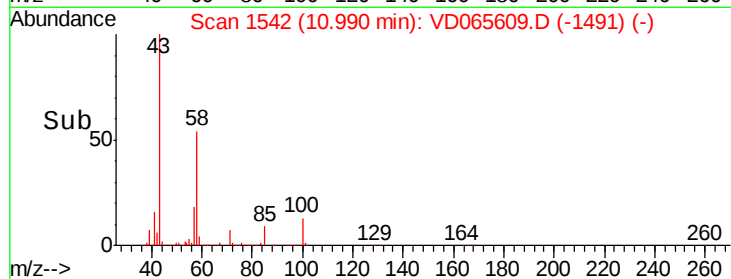
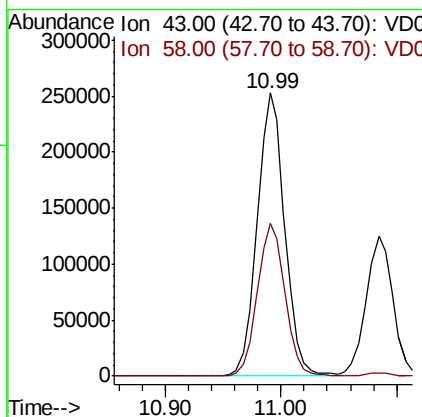
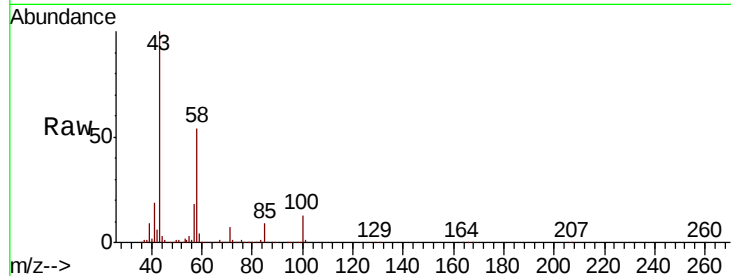




#59  
2-Hexanone  
Concen: 273.735 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

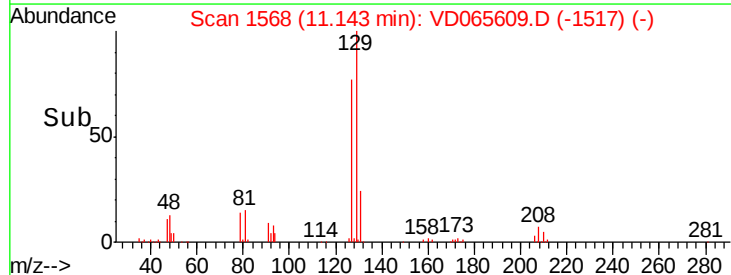
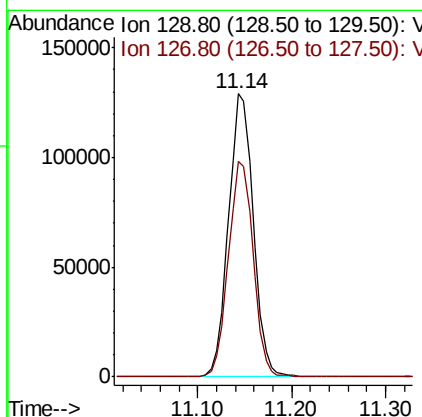
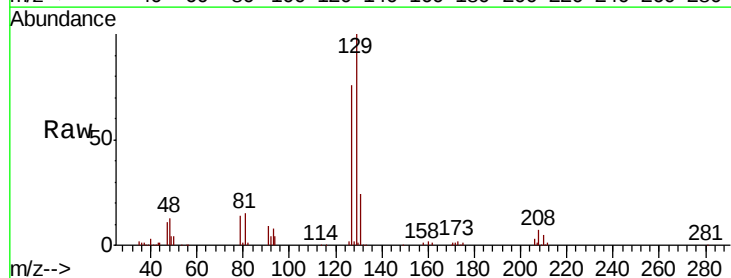
Instrument :  
MSVOA\_D  
ClientSampleId :

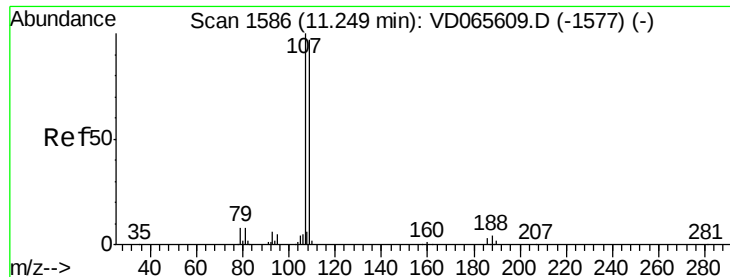
Tot Ion: 43 Resp: 420257  
Ion Ratio Lower Upper  
43 100  
58 54.2 27.1 81.3



#60  
Dibromochloromethane  
Concen: 51.157 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 129 Resp: 236594  
Ion Ratio Lower Upper  
129 100  
127 76.2 38.1 114.3

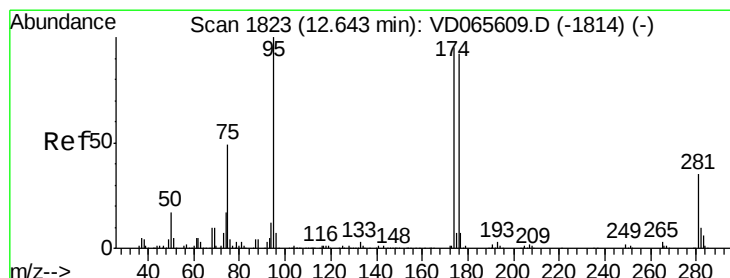
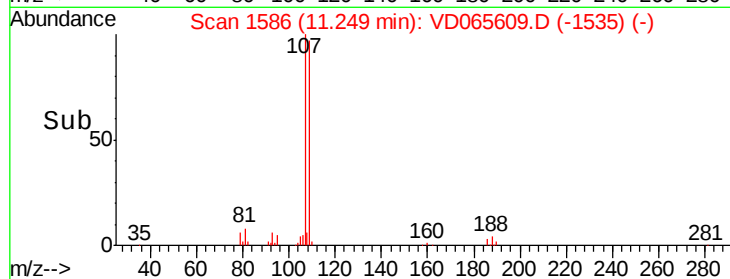
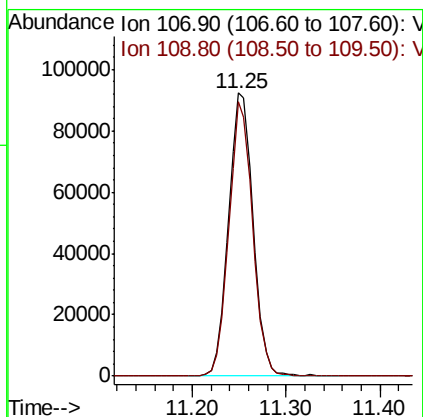
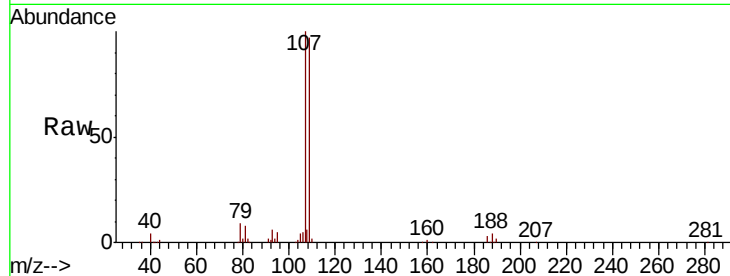




#61  
 1,2-Dibromoethane  
 Concen: 50.647 ug/l  
 RT: 11.25 min Scan# 1586  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

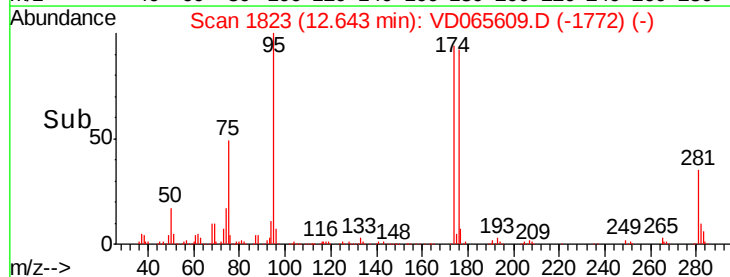
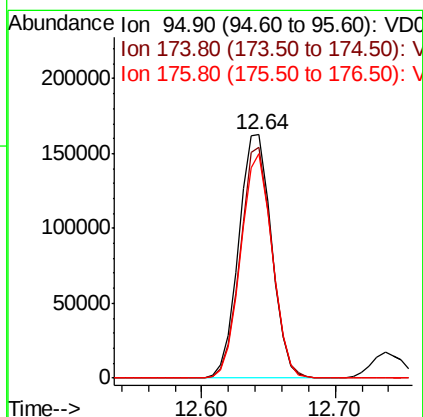
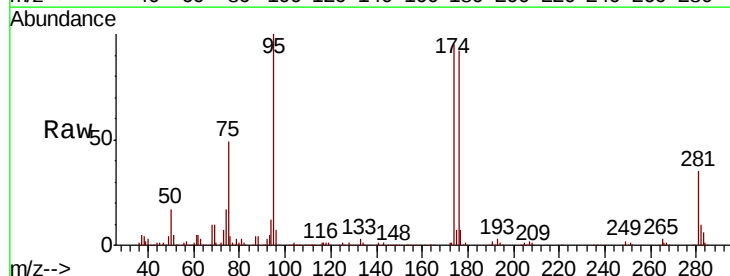
Instrument :  
 MSVOA\_D  
 ClientSampleId :

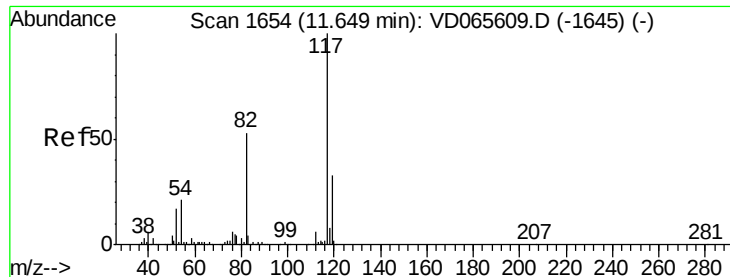
Tot Ion: 107 Resp: 167184  
 Ion Ratio Lower Upper  
 107 100  
 109 93.6 74.9 112.3



#62  
 4-Bromofluorobenzene  
 Concen: 52.435 ug/l  
 RT: 12.64 min Scan# 1823  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Tgt Ion: 95 Resp: 276299  
 Ion Ratio Lower Upper  
 95 100  
 174 91.4 0.0 182.8  
 176 88.3 0.0 176.6

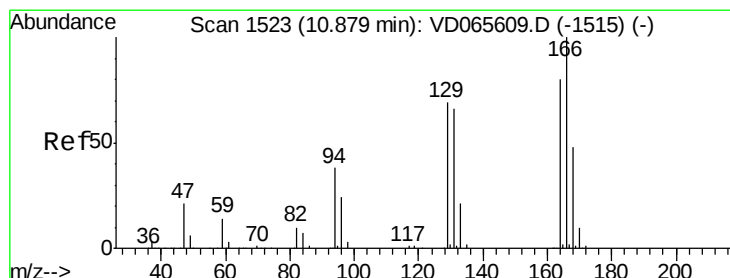
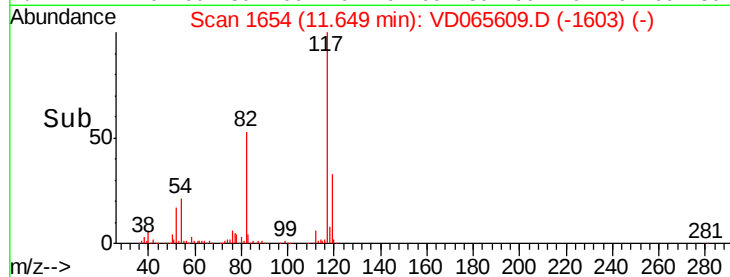
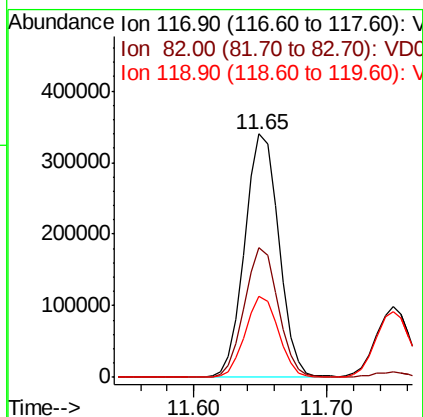
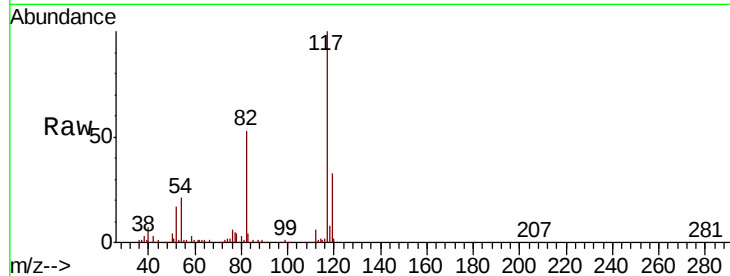




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

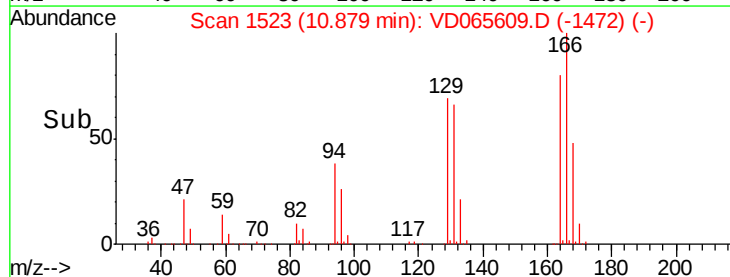
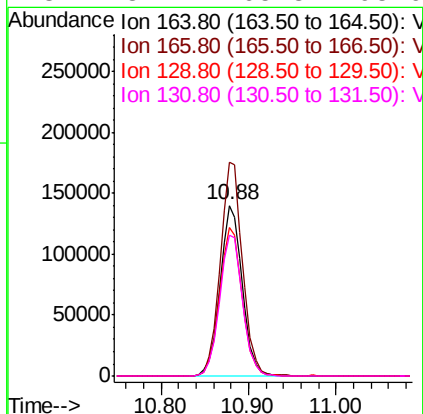
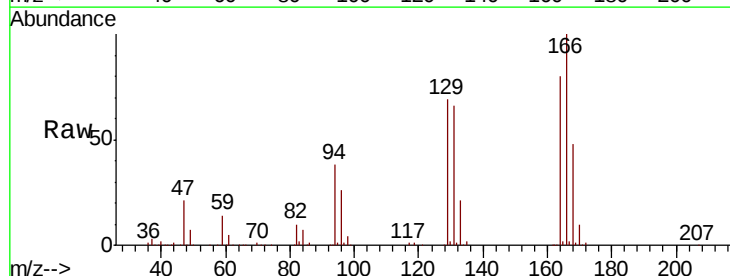
Instrument :  
MSVOA\_D  
ClientSampled :

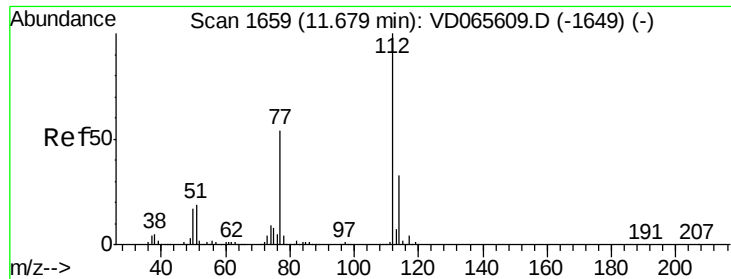
Tot Ion:117 Resp: 600669  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.6 64.0  
119 33.4 26.7 40.1



#64  
Tetrachloroethene  
Concen: 51.481 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion:164 Resp: 245967  
Ion Ratio Lower Upper  
164 100  
166 125.2 100.2 150.2  
129 86.9 69.5 104.3  
131 82.2 65.8 98.6

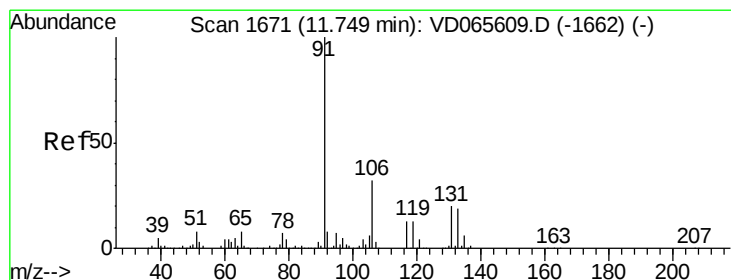
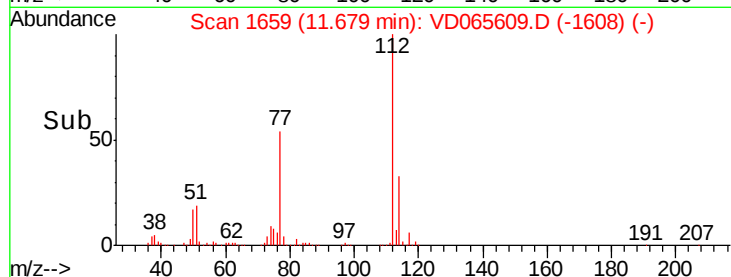
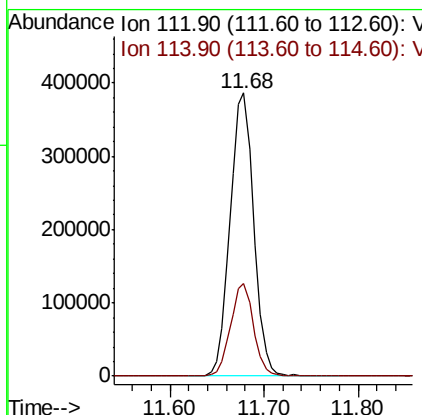
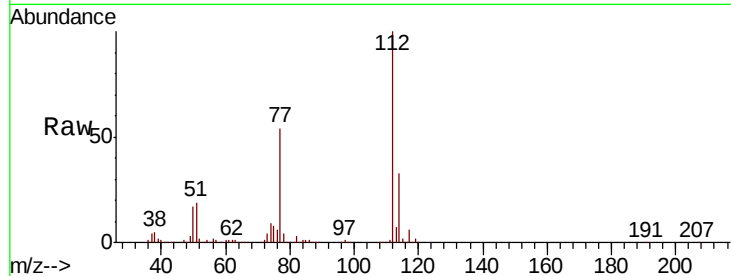




#65  
Chlorobenzene  
Concen: 51.794 ug/l  
RT: 11.68 min Scan# 1659  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

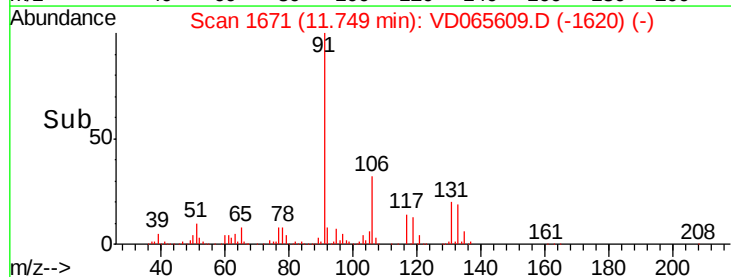
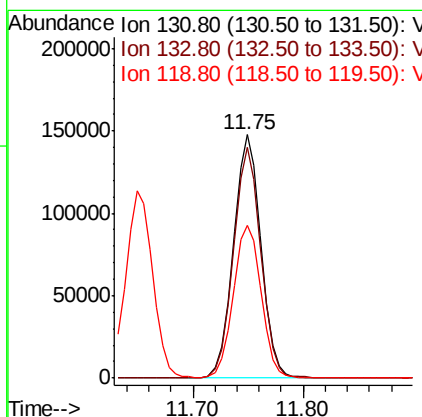
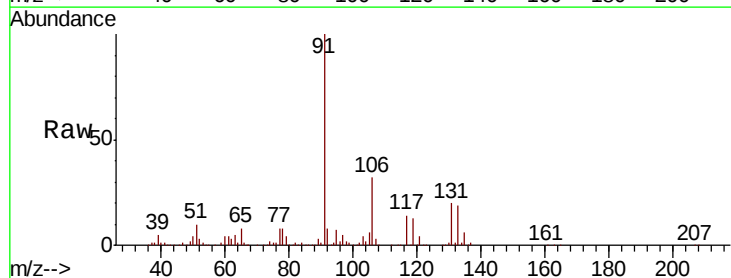
Instrument :  
MSVOA\_D  
ClientSampled :

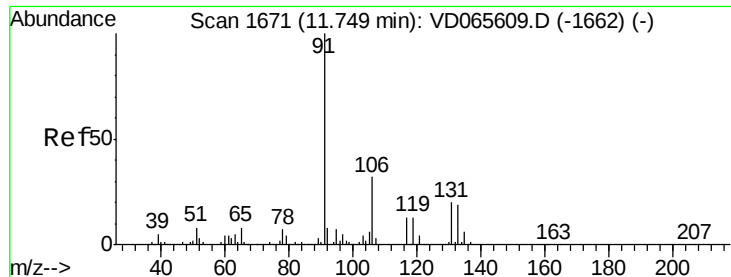
Tot Ion:112 Resp: 673773  
Ion Ratio Lower Upper  
112 100  
114 32.7 26.2 39.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.063 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion:131 Resp: 258006  
Ion Ratio Lower Upper  
131 100  
133 94.7 47.3 142.0  
119 63.9 31.9 95.9

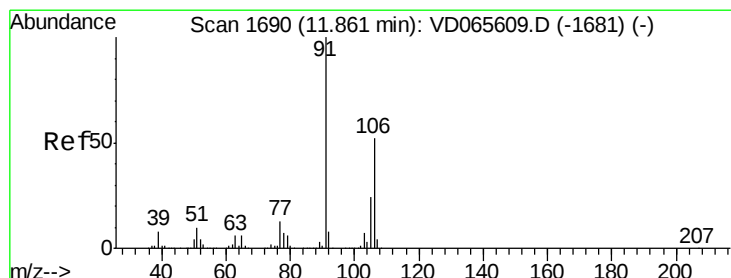
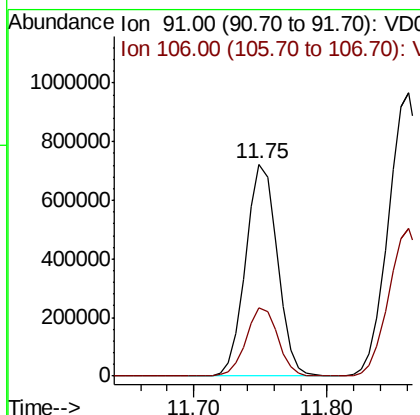
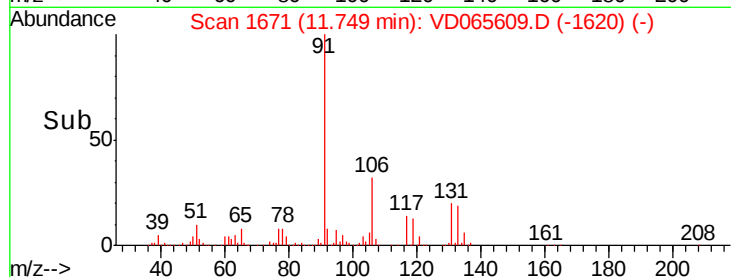
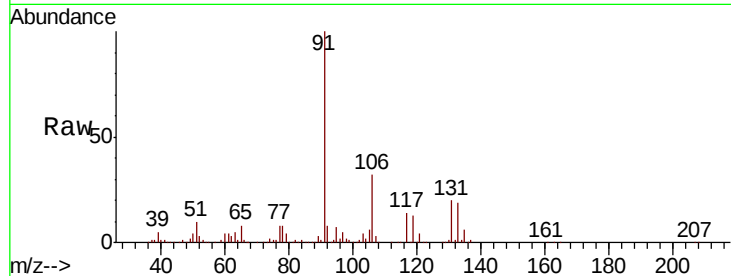




#67  
Ethyl Benzene  
Concen: 55.232 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

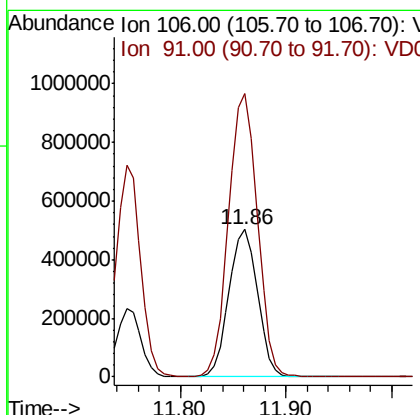
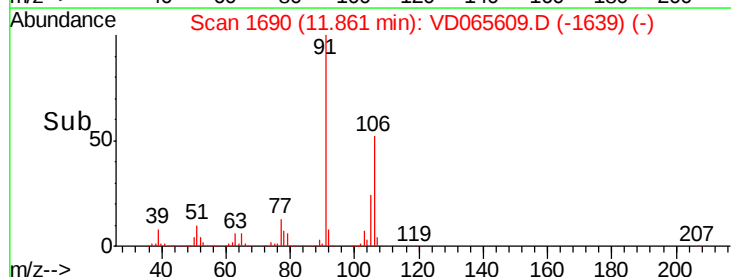
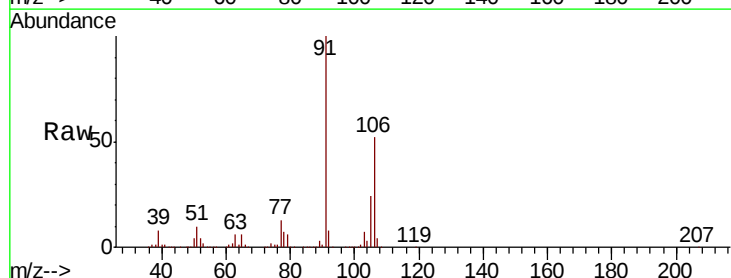
Instrument :  
MSVOA\_D  
ClientSampleId :

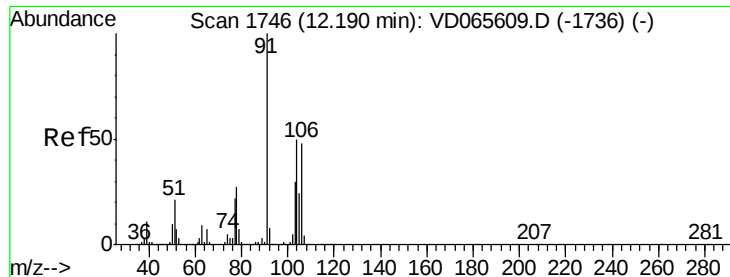
Tot Ion: 91 Resp: 1186444  
Ion Ratio Lower Upper  
91 100  
106 32.0 25.6 38.4



#68  
m/p-Xylenes  
Concen: 111.401 ug/l  
RT: 11.86 min Scan# 1690  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 106 Resp: 944114  
Ion Ratio Lower Upper  
106 100  
91 193.7 155.0 232.4

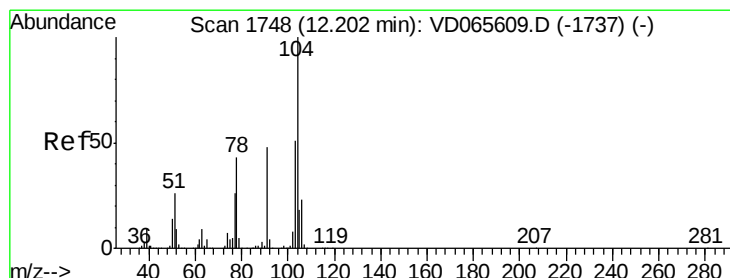
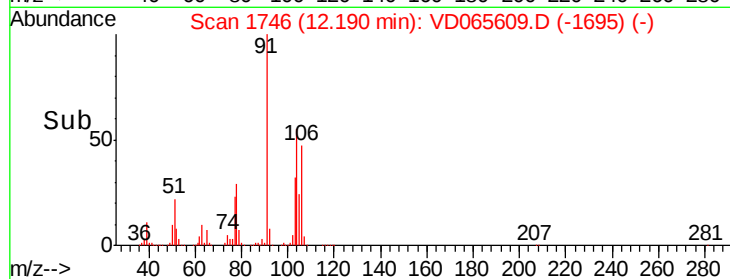
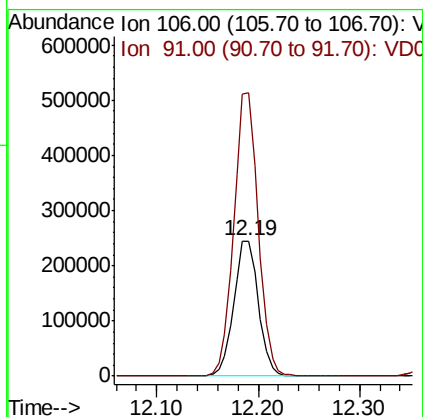
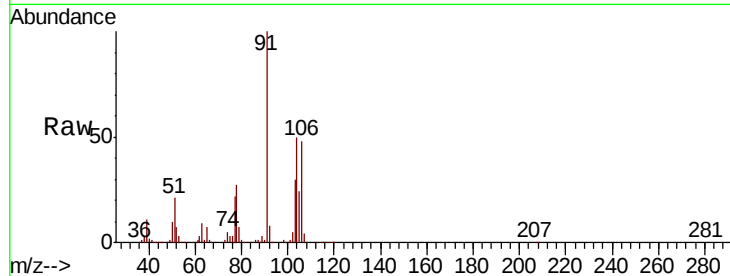




#69  
o-Xylene  
Concen: 56.469 ug/l  
RT: 12.19 min Scan# 1746  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

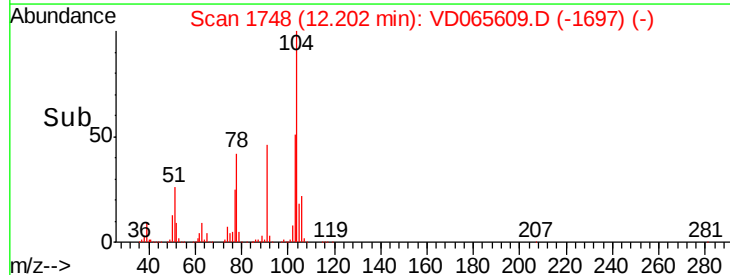
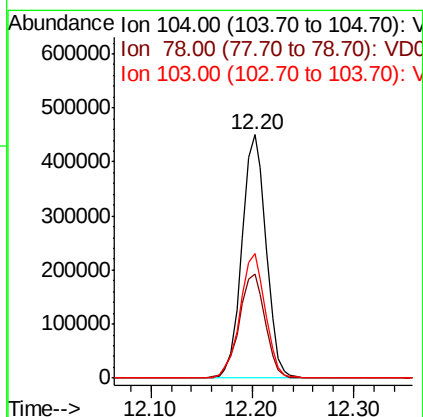
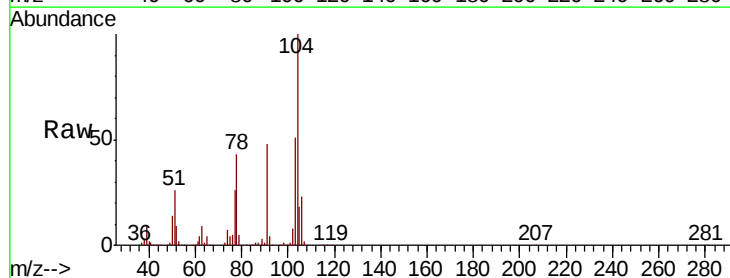
Instrument :  
MSVOA\_D  
ClientSampled :

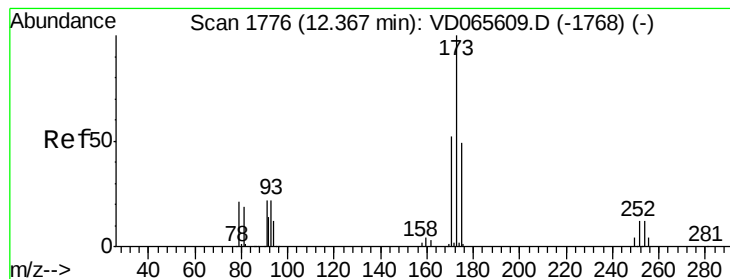
Tot Ion:106 Resp: 412382  
Ion Ratio Lower Upper  
106 100  
91 207.5 103.8 311.3



#70  
Styrene  
Concen: 57.530 ug/l  
RT: 12.20 min Scan# 1748  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion:104 Resp: 742775  
Ion Ratio Lower Upper  
104 100  
78 46.4 37.1 55.7  
103 54.0 43.2 64.8





#71

Bromoform

Concen: 50.165 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampled :

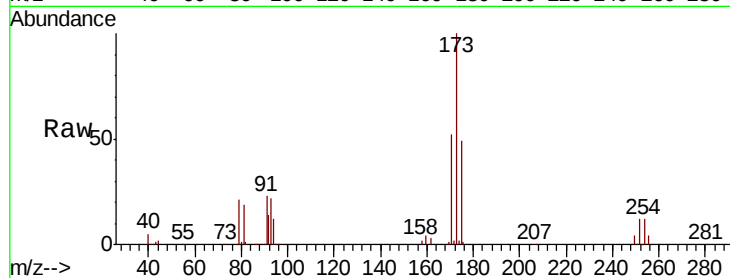
Tot Ion:173 Resp: 139423

Ion Ratio Lower Upper

173 100

175 49.0 24.5 73.5

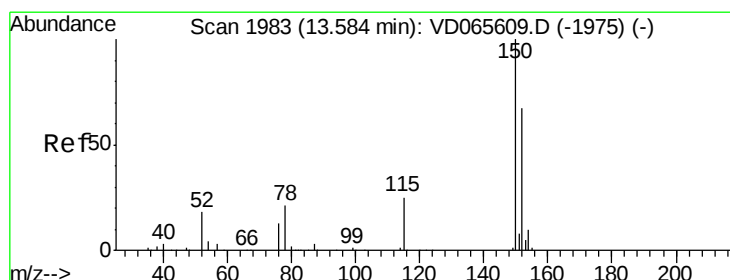
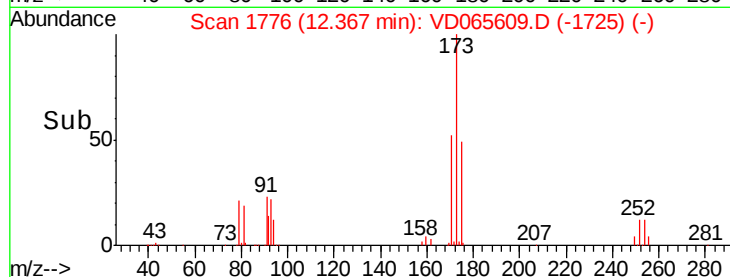
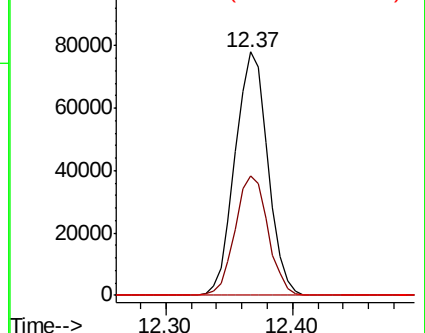
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

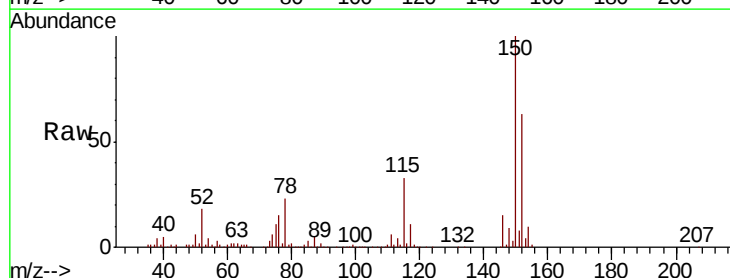
Tgt Ion:152 Resp: 311200

Ion Ratio Lower Upper

152 100

115 54.1 27.1 81.2

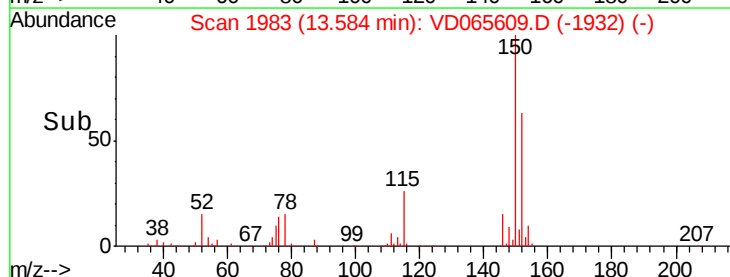
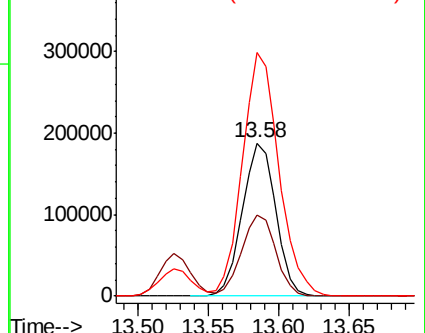
150 174.1 0.0 348.2

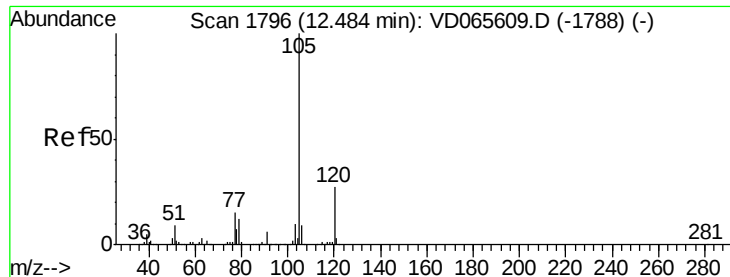


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 56.463 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

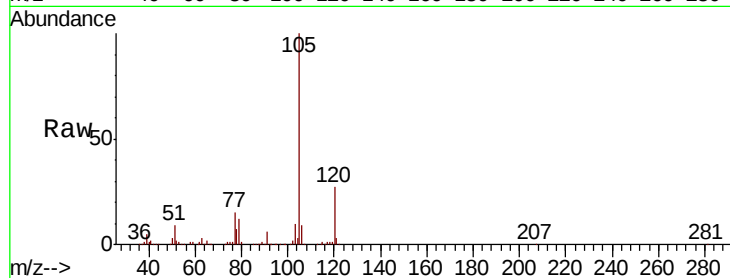
ClientSampleId :

Tot Ion:105 Resp: 1119578

Ion Ratio Lower Upper

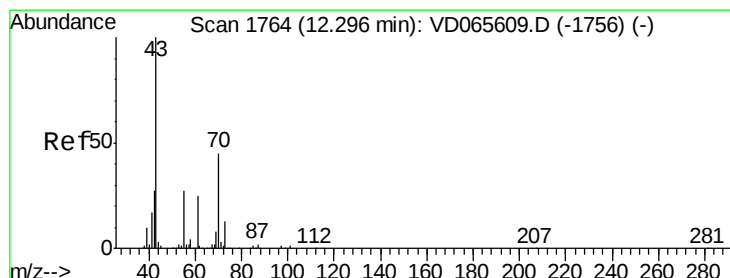
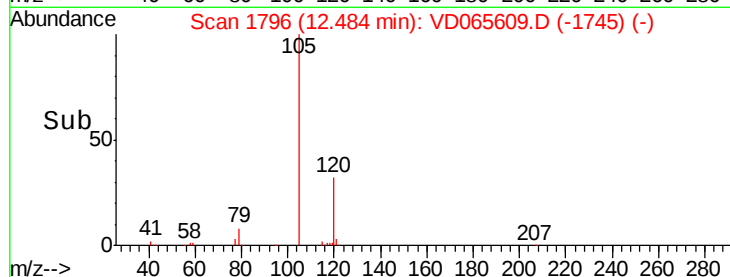
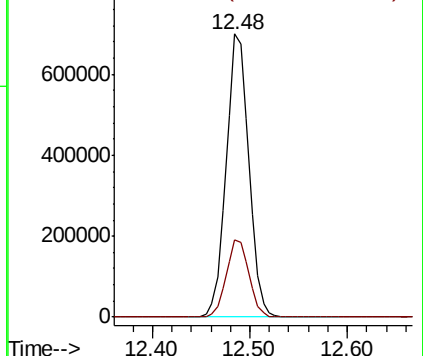
105 100

120 27.5 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.939 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Tgt Ion: 43 Resp: 215740

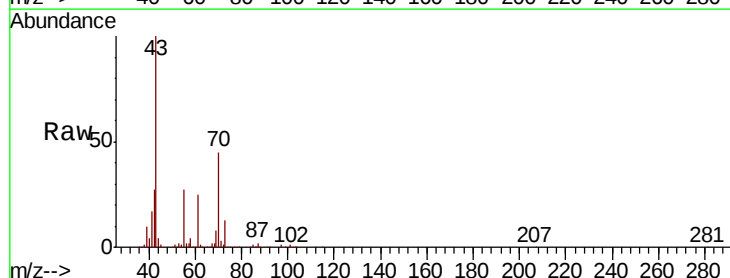
Ion Ratio Lower Upper

43 100

70 44.0 35.2 52.8

55 28.1 22.5 33.7

61 24.2 19.4 29.0

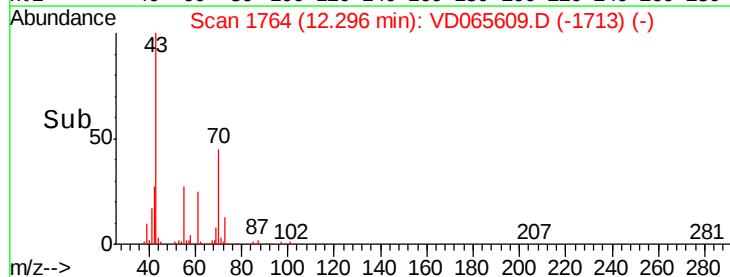
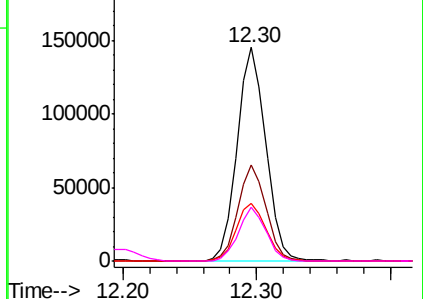


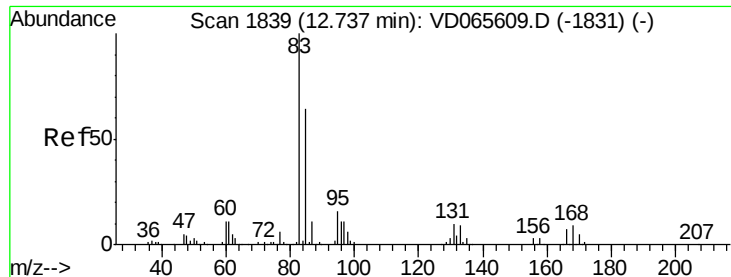
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 49.985 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

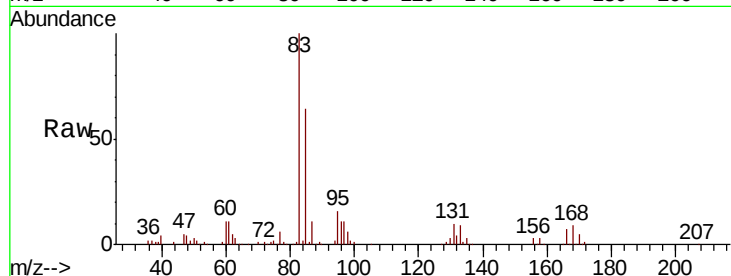
Tot Ion: 83 Resp: 182194

Ion Ratio Lower Upper

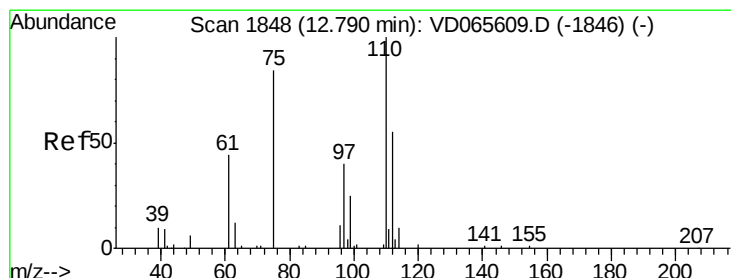
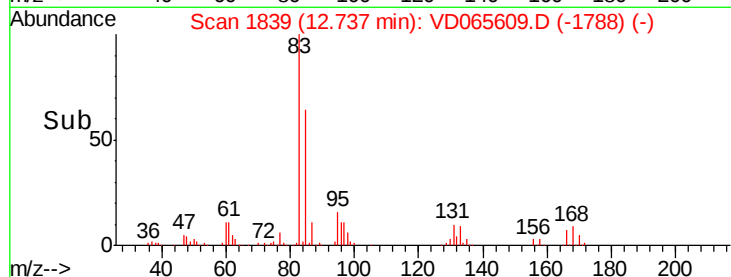
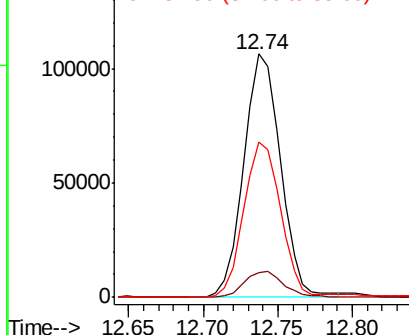
83 100

131 11.3 5.7 17.0

85 63.6 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 130.80 (130.50 to 131.50): VDC  
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 57.422 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD065609.D

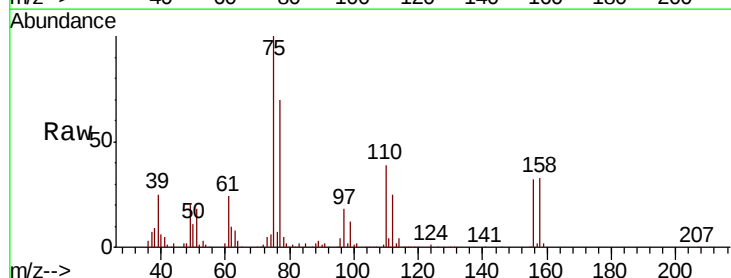
Acq: 09 Apr 2020 12:03

Tgt Ion: 75 Resp: 240094

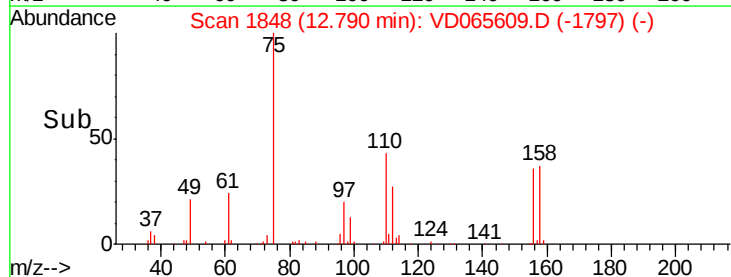
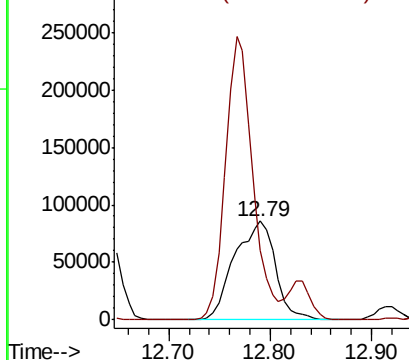
Ion Ratio Lower Upper

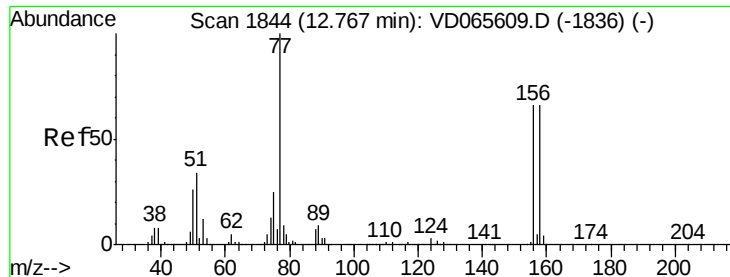
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 52.470 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

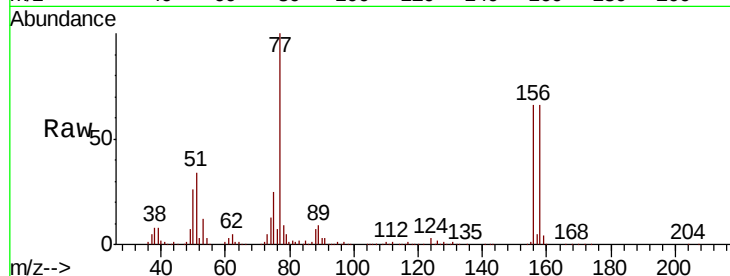
Tot Ion:156 Resp: 285232

Ion Ratio Lower Upper

156 100

77 160.6 80.3 240.9

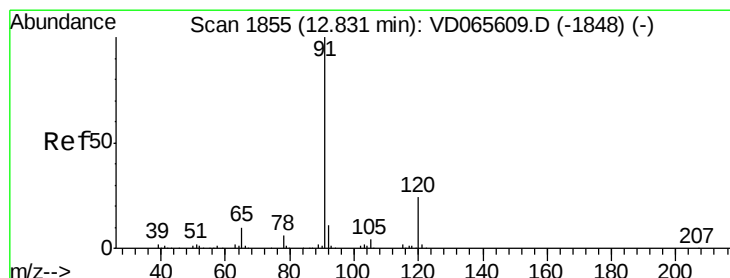
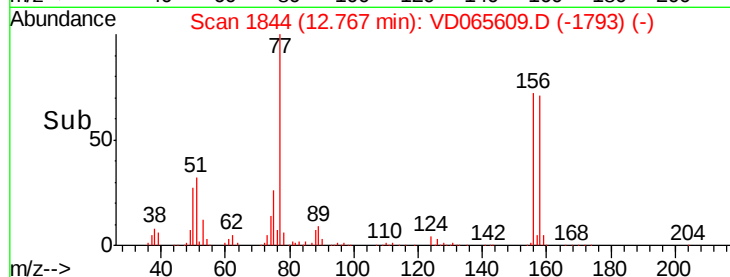
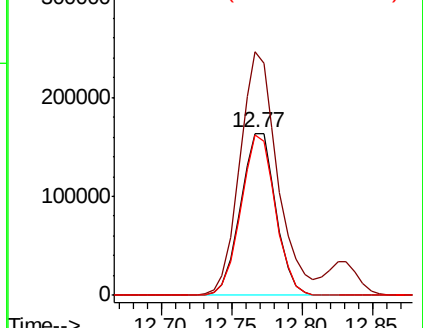
158 97.0 48.5 145.5



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 56.068 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VD065609.D

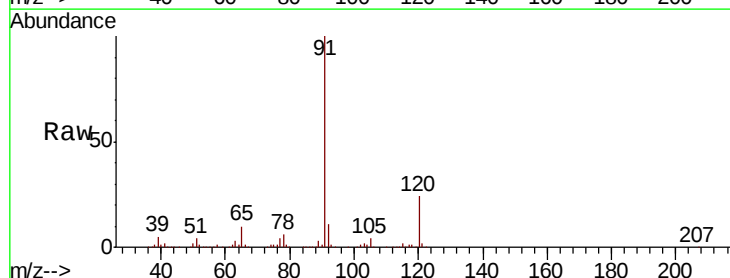
Acq: 09 Apr 2020 12:03

Tgt Ion: 91 Resp: 1341736

Ion Ratio Lower Upper

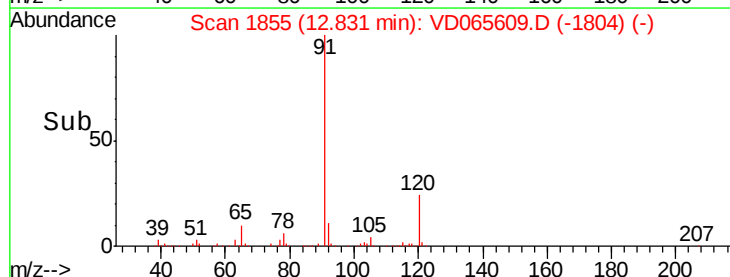
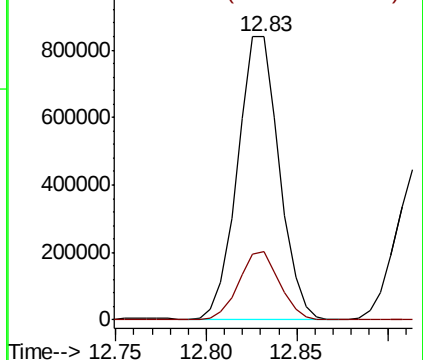
91 100

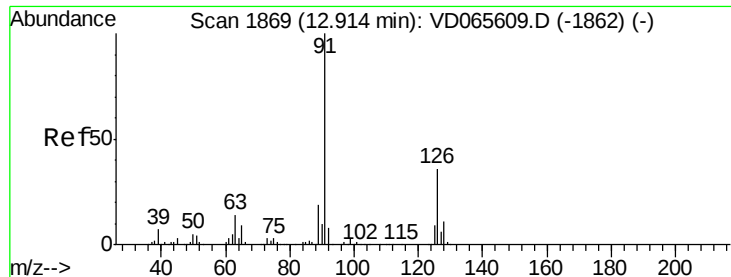
120 23.7 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

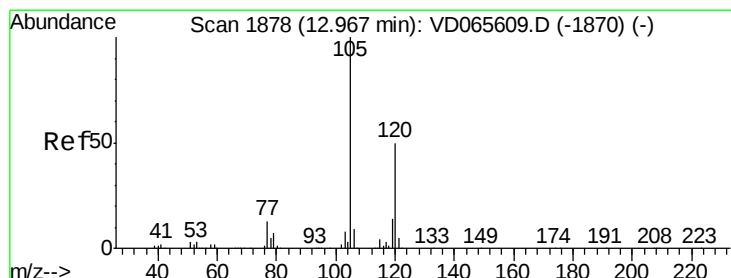
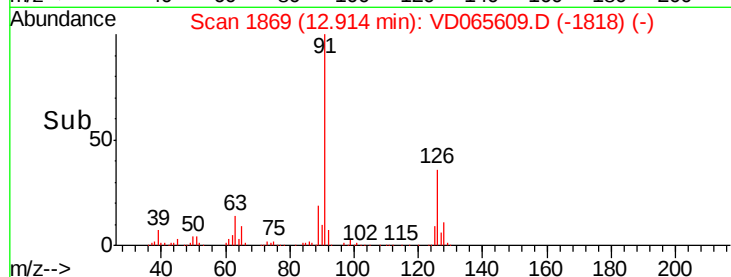
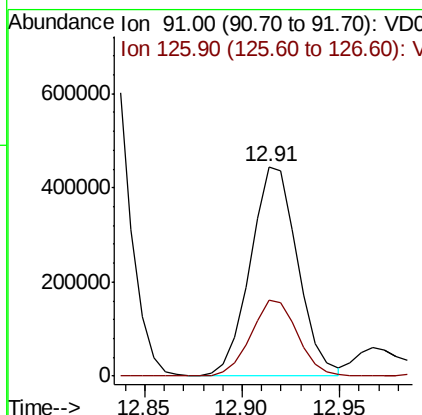
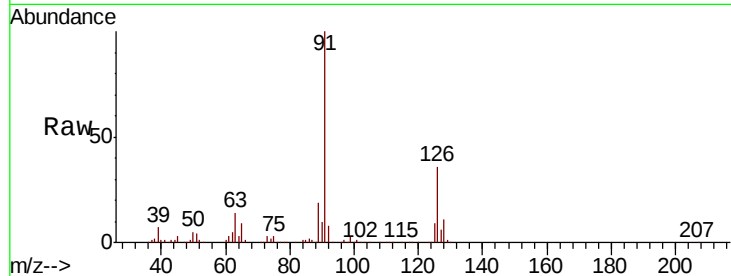




#79  
 2-Chlorotoluene  
 Concen: 54.366 ug/l  
 RT: 12.91 min Scan# 1869  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

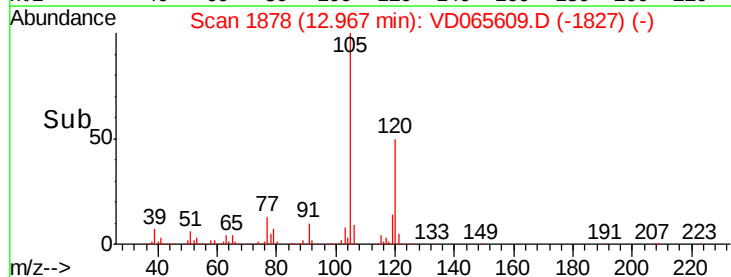
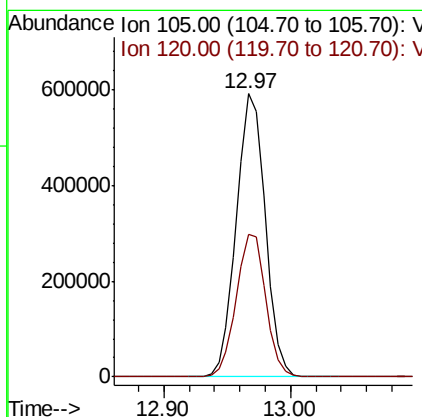
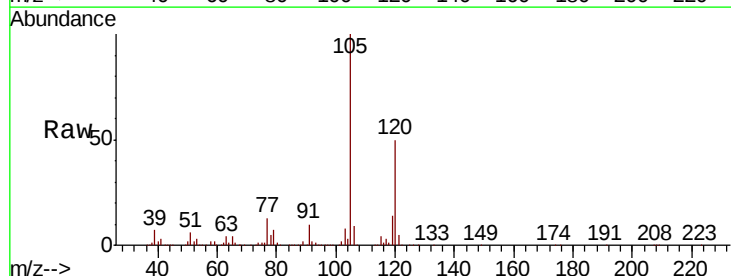
Instrument :  
 MSVOA\_D  
 ClientSampleId :

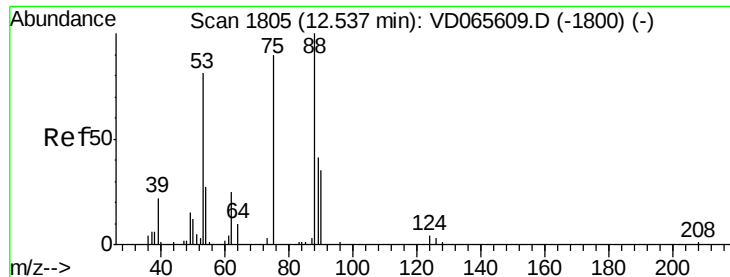
Tot Ion: 91 Resp: 745621  
 Ion Ratio Lower Upper  
 91 100  
 126 36.0 18.0 54.0



#80  
 1,3,5-Trimethylbenzene  
 Concen: 56.029 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

Tgt Ion:105 Resp: 936362  
 Ion Ratio Lower Upper  
 105 100  
 120 51.3 25.7 77.0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.553 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

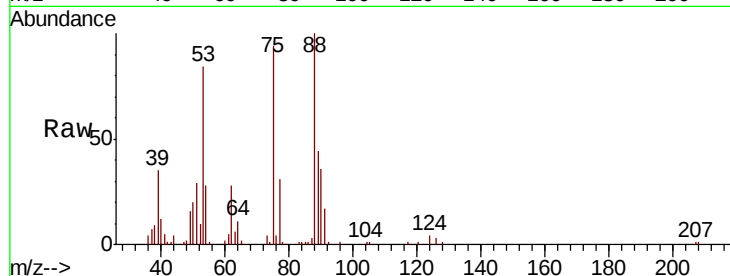
Tot Ion: 75 Resp: 59859

Ion Ratio Lower Upper

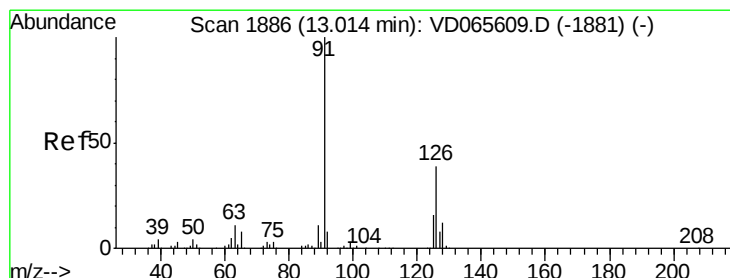
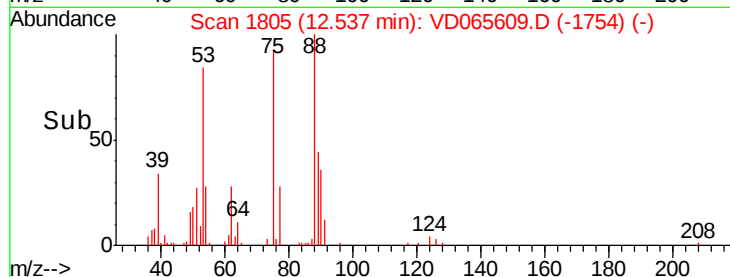
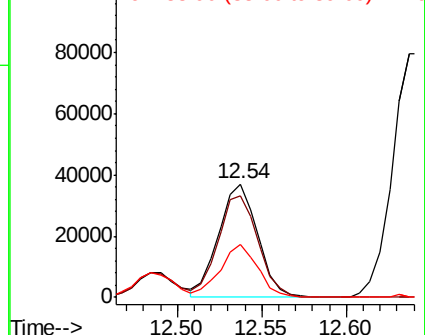
75 100

53 92.3 73.8 110.8

89 45.1 36.1 54.1



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



#82

4-Chlorotoluene

Concen: 53.421 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VD065609.D

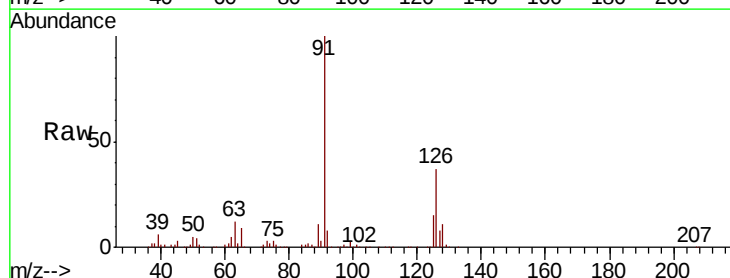
Acq: 09 Apr 2020 12:03

Tgt Ion: 91 Resp: 788587

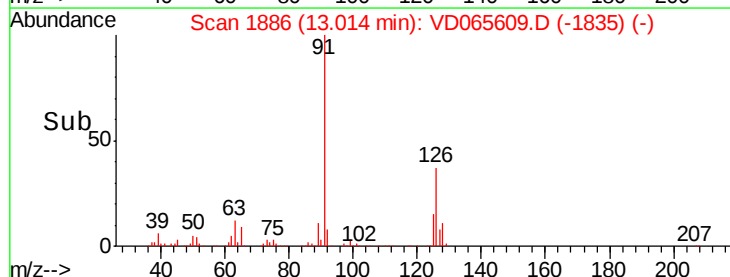
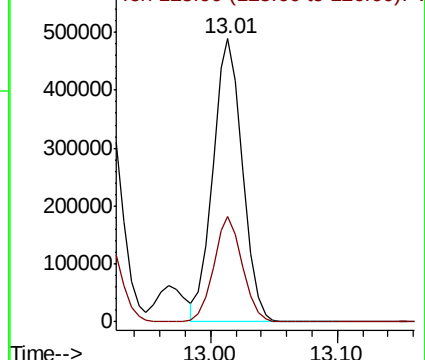
Ion Ratio Lower Upper

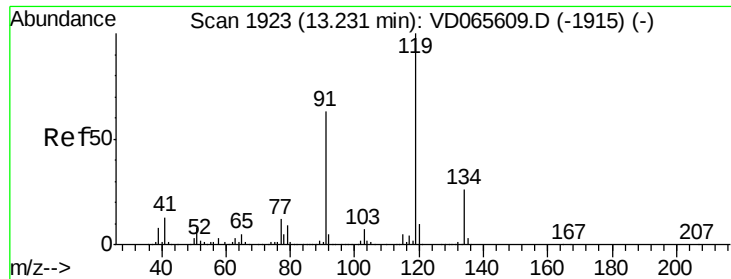
91 100

126 36.3 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 125.90 (125.60 to 126.60): V

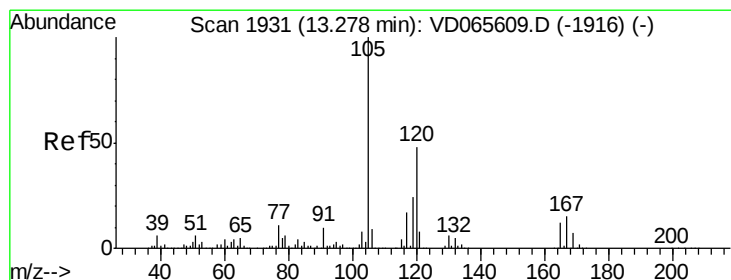
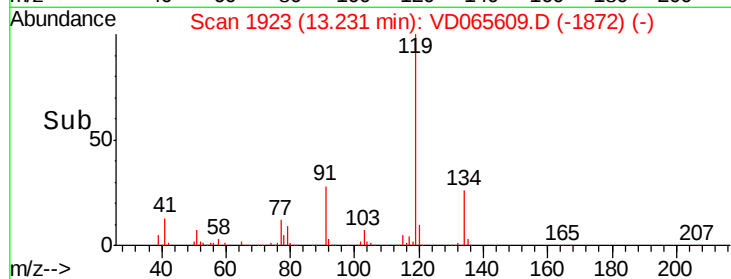
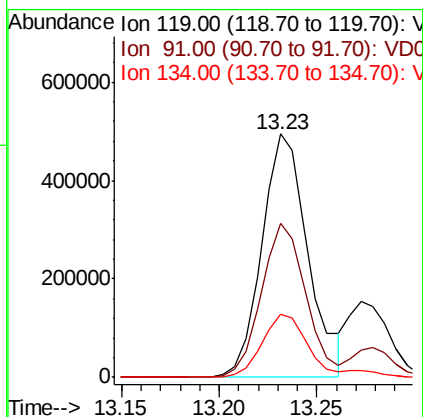
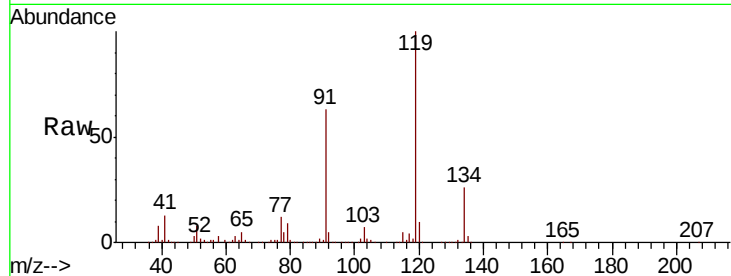




#83  
tert-Butylbenzene  
Concen: 58.050 ug/l  
RT: 13.23 min Scan# 1923  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

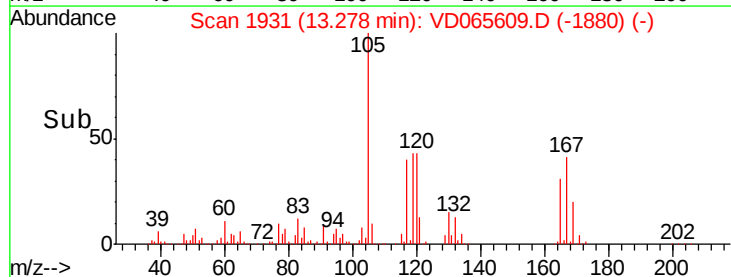
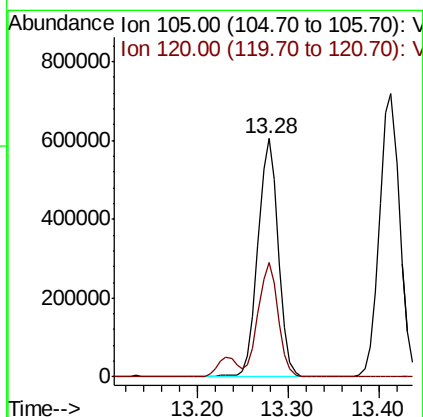
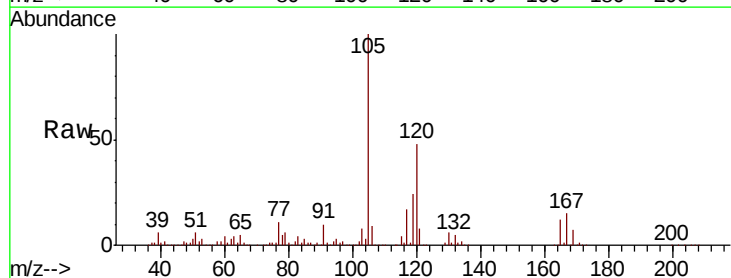
Instrument :  
MSVOA\_D  
ClientSampleId :

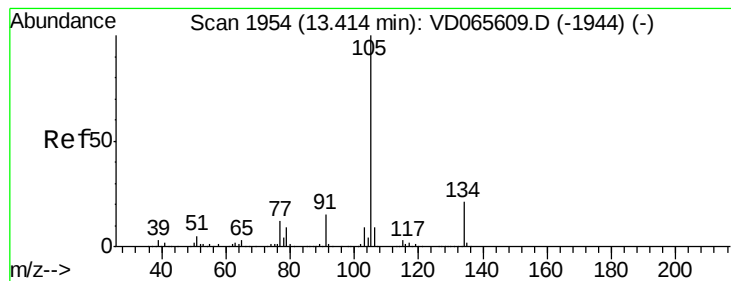
Tot Ion:119 Resp: 811220  
Ion Ratio Lower Upper  
119 100  
91 60.8 30.4 91.2  
134 27.3 13.7 41.0



#84  
1,2,4-Trimethylbenzene  
Concen: 56.737 ug/l  
RT: 13.28 min Scan# 1931  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion:105 Resp: 942271  
Ion Ratio Lower Upper  
105 100  
120 47.1 23.5 70.6





#85

sec-Butylbenzene

Concen: 55.771 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

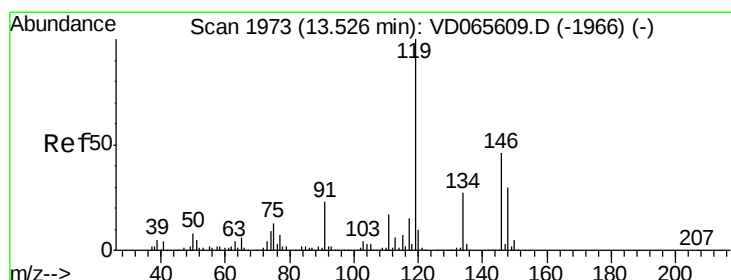
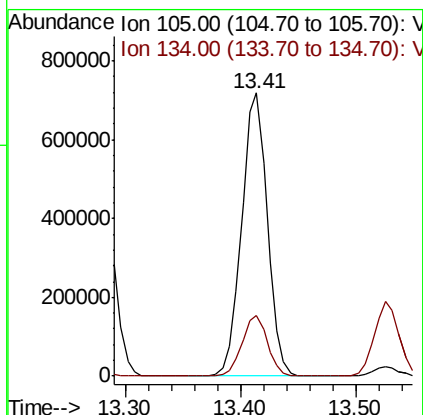
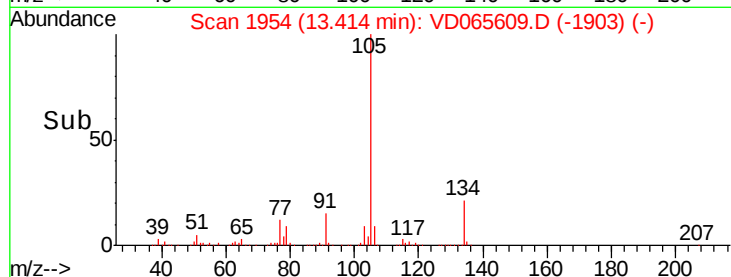
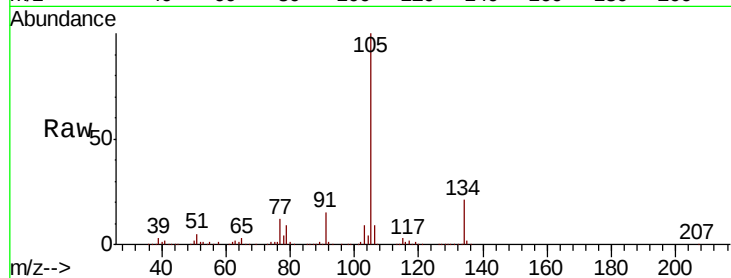
ClientSampleId :

Tot Ion:105 Resp: 1109000

Ion Ratio Lower Upper

105 100

134 21.3 10.7 31.9



#86

p-Isopropyltoluene

Concen: 56.983 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

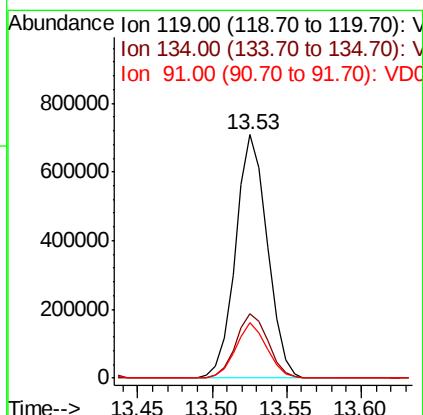
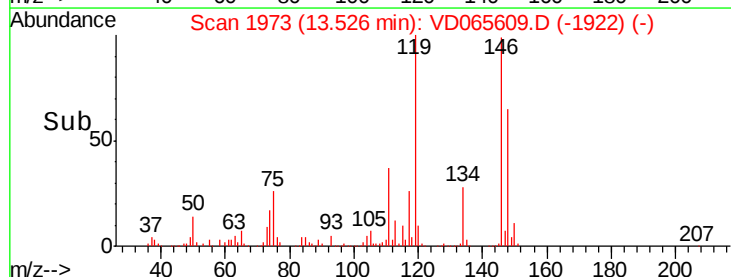
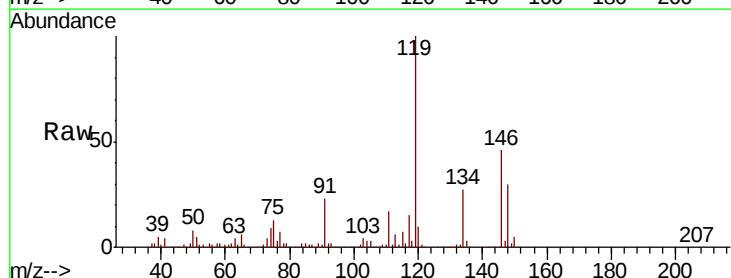
Tgt Ion:119 Resp: 1045656

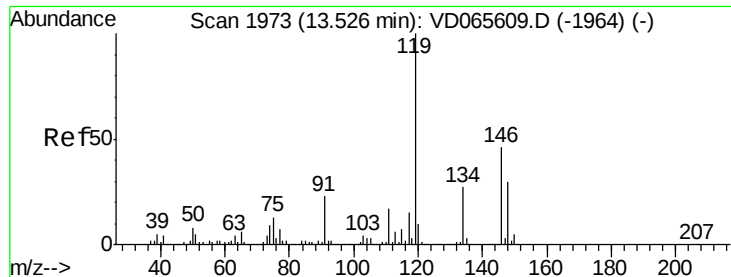
Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.4

91 22.1 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 51.096 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

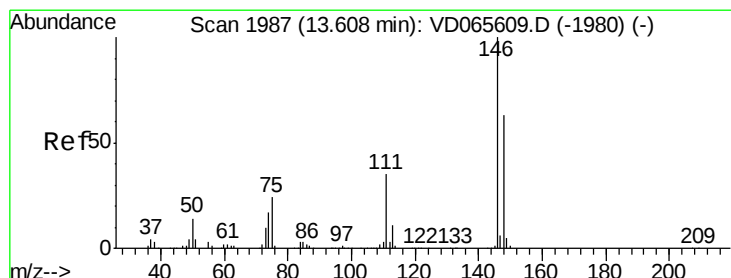
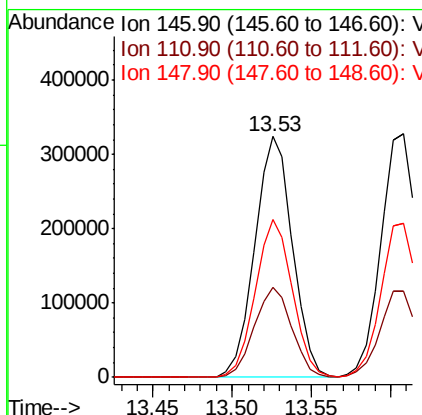
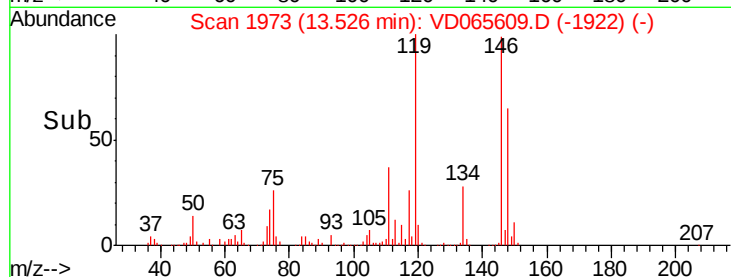
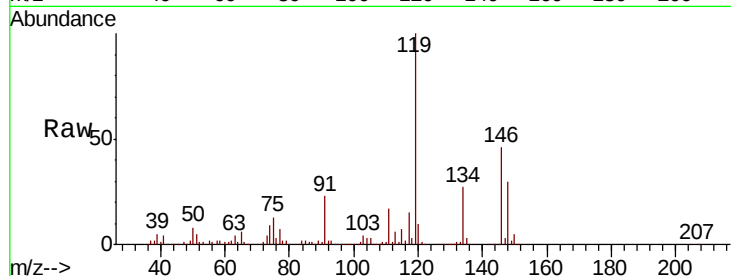
Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:146 Resp: 535632

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 37.2  | 18.6  | 55.8  |
| 148 | 64.3  | 32.1  | 96.5  |



#88

1,4-Dichlorobenzene

Concen: 50.796 ug/l

RT: 13.61 min Scan# 1987

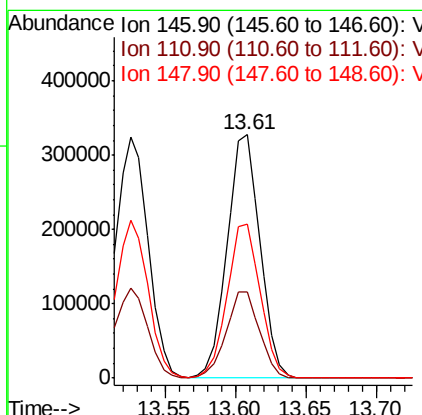
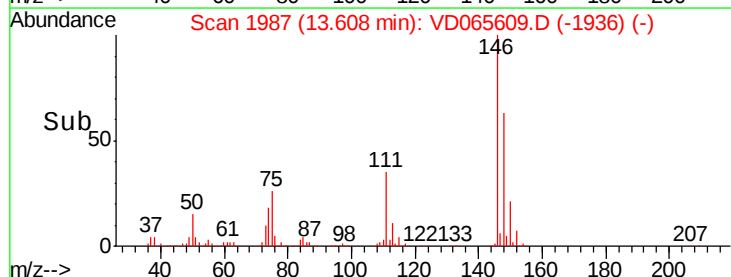
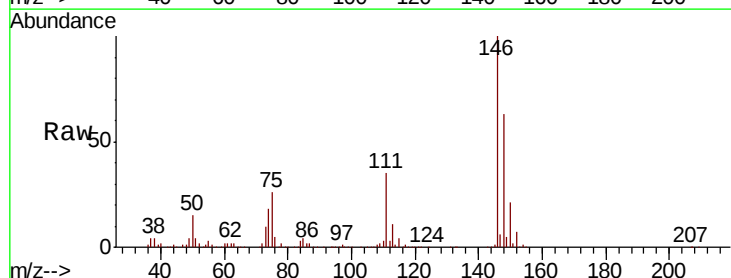
Delta R.T. 0.00 min

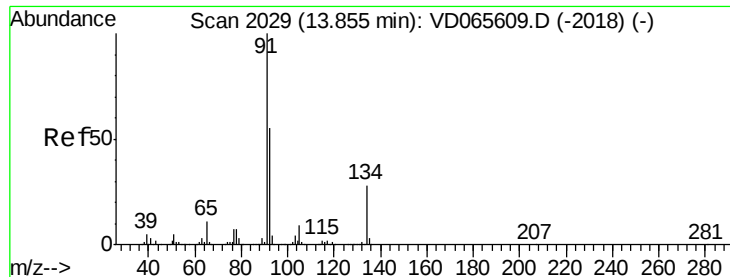
Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Tgt Ion:146 Resp: 531860

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 36.0  | 18.0  | 54.0  |
| 148 | 63.6  | 31.8  | 95.4  |

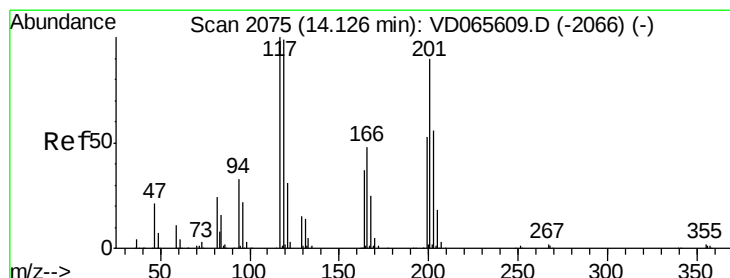
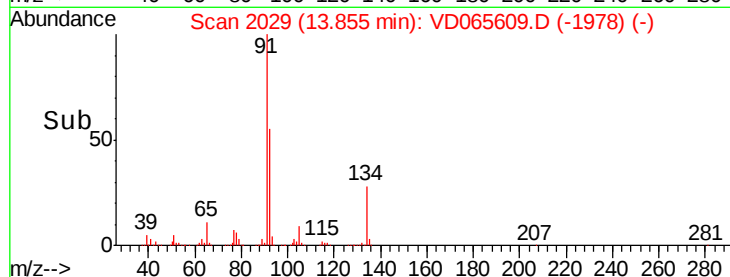
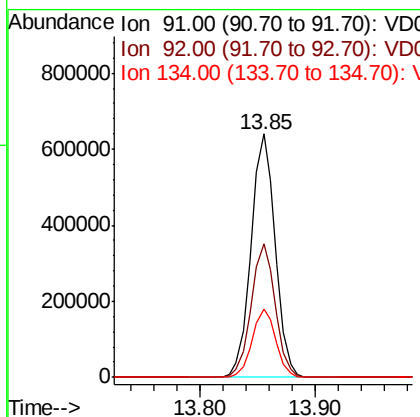
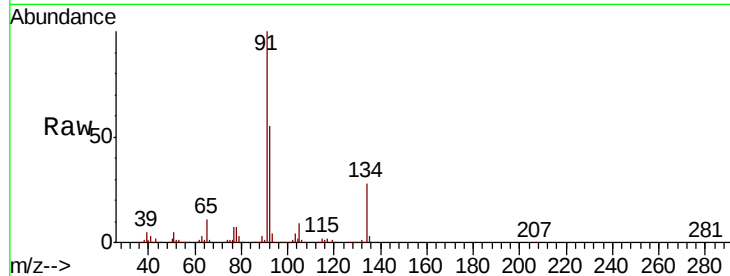




#89  
n-Butylbenzene  
Concen: 56.196 ug/l  
RT: 13.85 min Scan# 2029  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

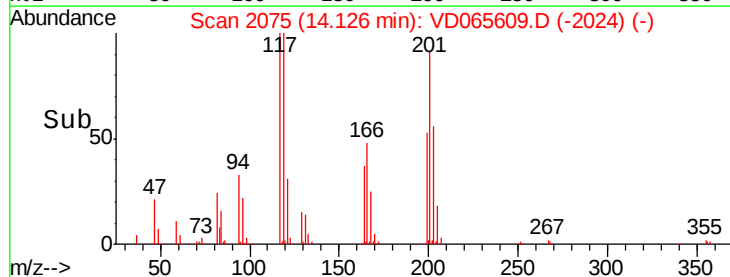
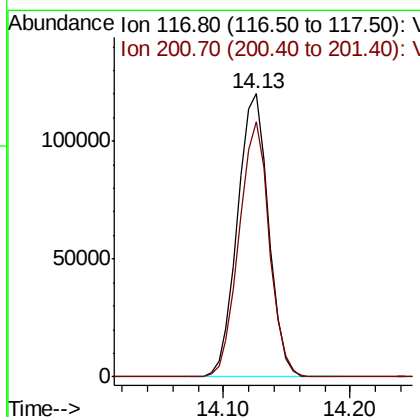
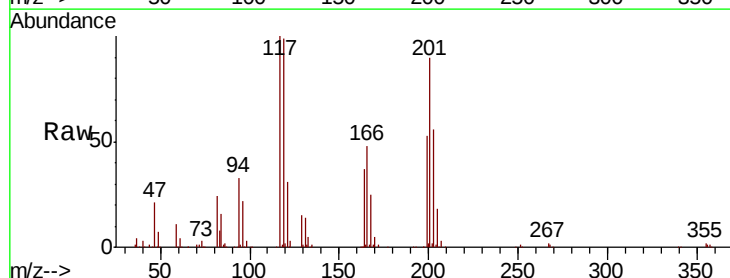
Instrument :  
MSVOA\_D  
ClientSampleId :

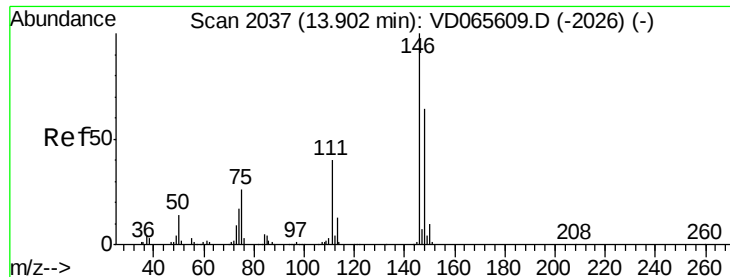
Tot Ion: 91 Resp: 930630  
Ion Ratio Lower Upper  
91 100  
92 54.4 27.2 81.6  
134 27.8 13.9 41.7



#90  
Hexachloroethane  
Concen: 51.004 ug/l  
RT: 14.13 min Scan# 2075  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion: 117 Resp: 204170  
Ion Ratio Lower Upper  
117 100  
201 87.8 43.9 131.7





#91

1,2-Dichlorobenzene

Concen: 51.646 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

Instrument :

MSVOA\_D

ClientSampleId :

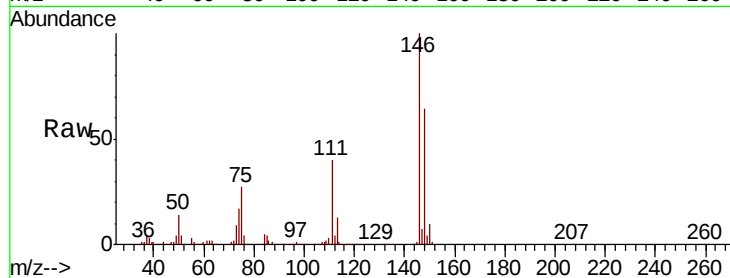
Tot Ion:146 Resp: 460592

Ion Ratio Lower Upper

146 100

111 38.3 19.1 57.5

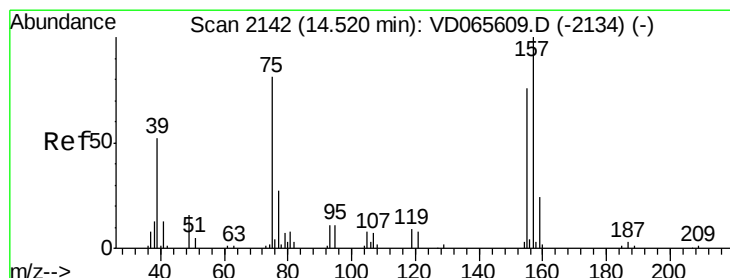
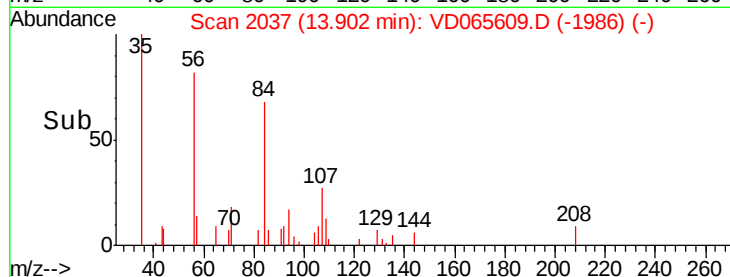
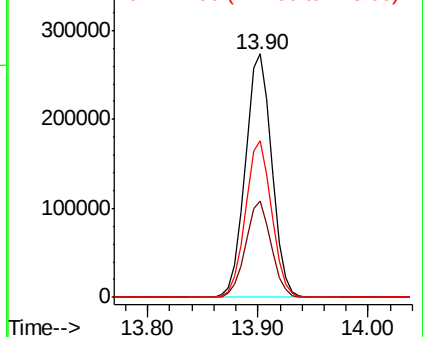
148 63.6 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 47.935 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD065609.D

Acq: 09 Apr 2020 12:03

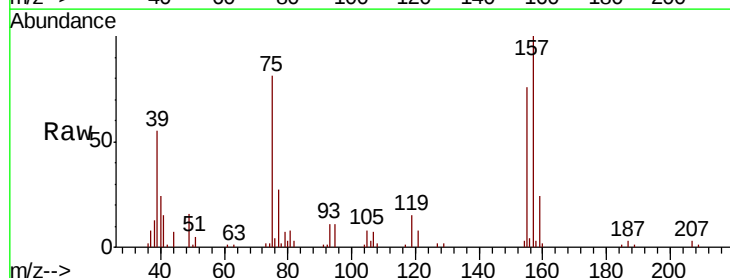
Tgt Ion: 75 Resp: 26951

Ion Ratio Lower Upper

75 100

155 93.6 46.8 140.4

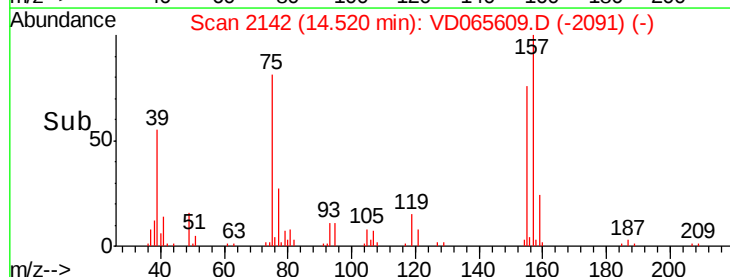
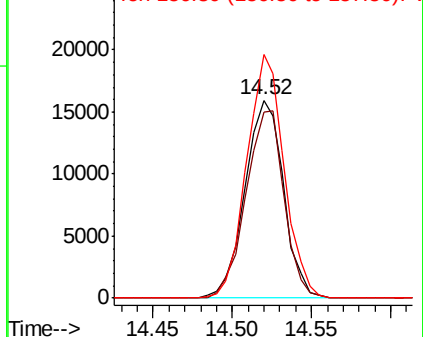
157 119.1 59.6 178.7

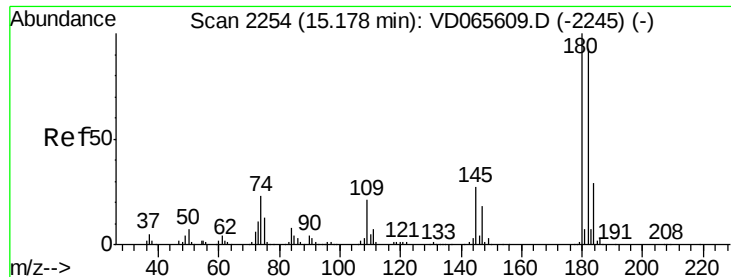


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

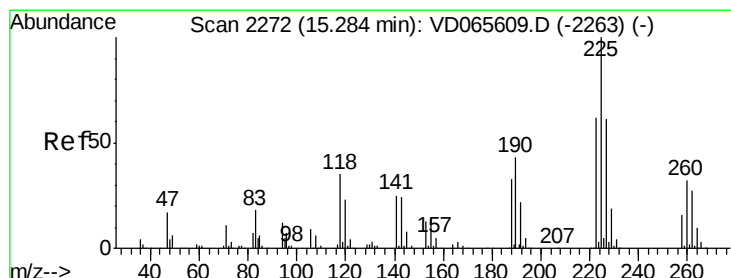
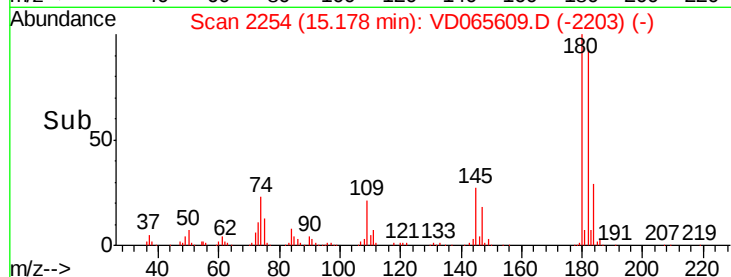
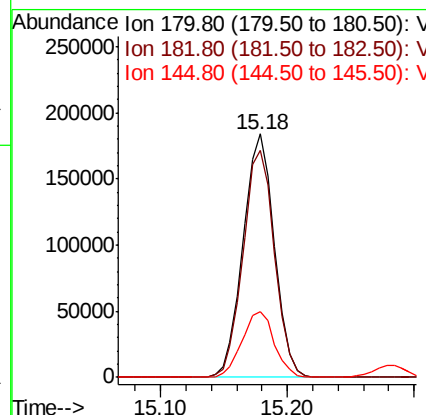
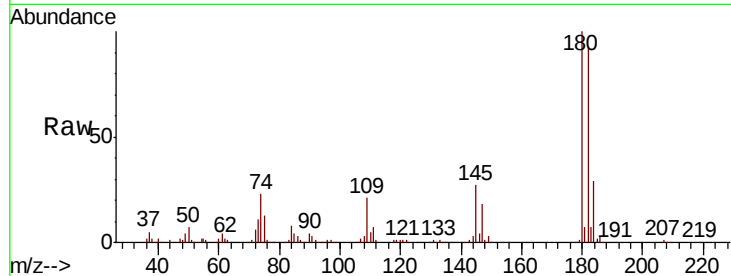




#93  
 1,2,4-Trichlorobenzene  
 Concen: 53.534 ug/l  
 RT: 15.18 min Scan# 2254  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

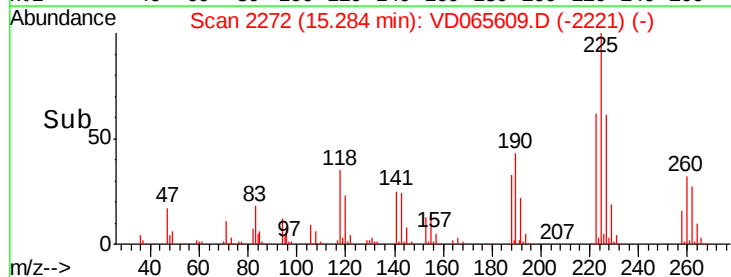
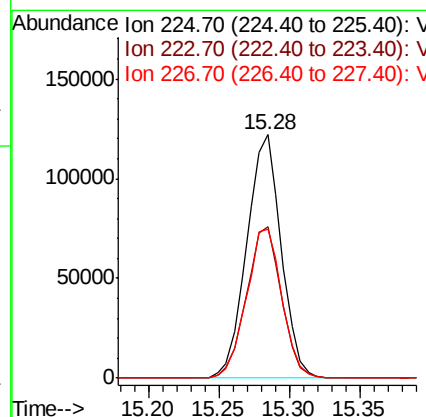
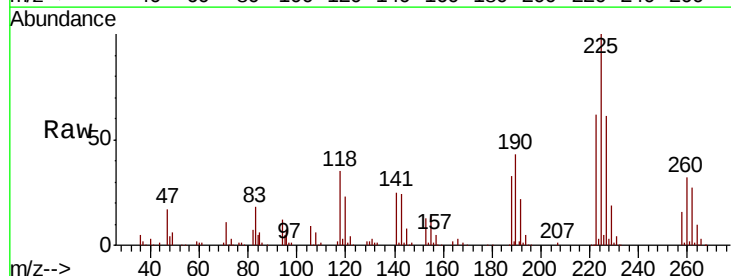
Instrument :  
 MSVOA\_D  
 ClientSampleID :

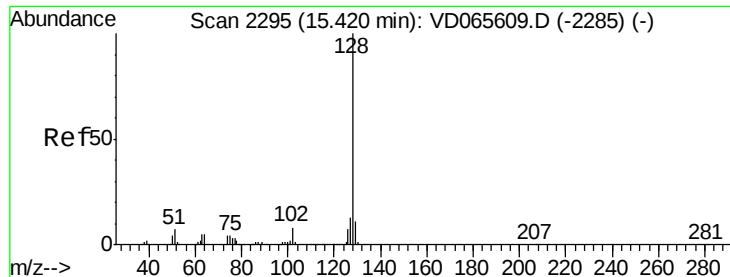
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.1  | 47.0  | 141.2 |
| 145     | 27.9  | 14.0  | 41.9  |



#94  
 Hexachlorobutadiene  
 Concen: 51.243 ug/l  
 RT: 15.28 min Scan# 2272  
 Delta R.T. 0.00 min  
 Lab File: VD065609.D  
 Acq: 09 Apr 2020 12:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.1  | 31.6  | 94.7  |
| 227     | 63.3  | 31.6  | 95.0  |

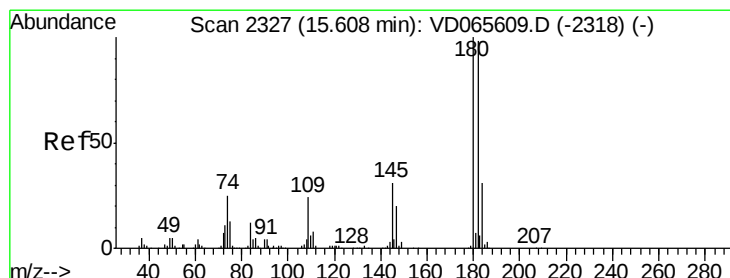
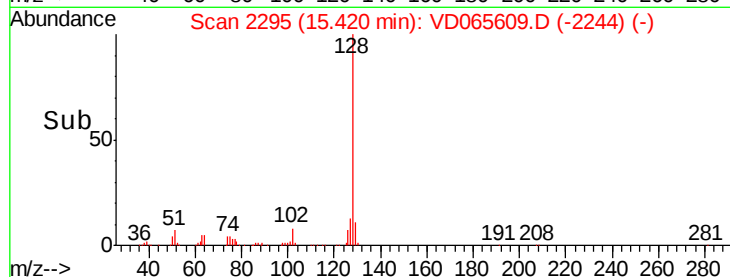
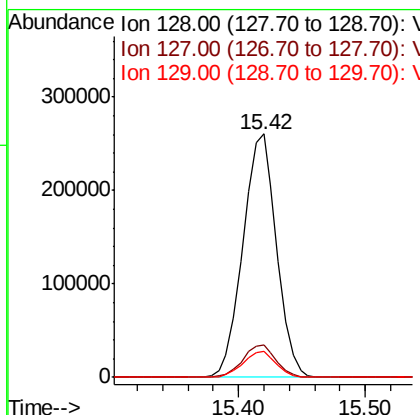
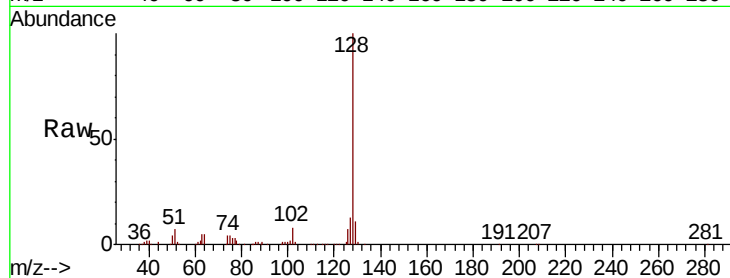




#95  
Naphthalene  
Concen: 56.436 ug/l  
RT: 15.42 min Scan# 2295  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:128 Resp: 479020  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 10.5 8.4 12.6



#96  
1,2,3-Trichlorobenzene  
Concen: 53.610 ug/l  
RT: 15.61 min Scan# 2327  
Delta R.T. 0.00 min  
Lab File: VD065609.D  
Acq: 09 Apr 2020 12:03

Tgt Ion:180 Resp: 271842  
Ion Ratio Lower Upper  
180 100  
182 95.4 47.7 143.1  
145 30.4 15.2 45.6

