

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020620\  
 Data File : VD065100.D  
 Acq On : 06 Feb 2020 21:38  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 07 06:11:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 405599   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 622047   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 582840   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 288908   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 219196   | 63.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 127.18% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 213721   | 61.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 123.16% |          |
| 50) Toluene-d8              | 10.34 | 98   | 816059   | 59.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.14% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 263471   | 60.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 120.38% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85   | 167508   | 49.628  | ug/l  | 94     |
| 3) Chloromethane              | 2.21 | 50   | 234801   | 59.096  | ug/l  | 96     |
| 4) Vinyl Chloride             | 2.35 | 62   | 234153   | 55.725  | ug/l  | 100    |
| 5) Bromomethane               | 2.77 | 94   | 152031   | 55.801  | ug/l  | 100    |
| 6) Chloroethane               | 2.93 | 64   | 153116   | 58.744  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 338497   | 55.354  | ug/l  | 97     |
| 8) Diethyl Ether              | 3.71 | 74   | 99854    | 56.881  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101  | 187630   | 50.191  | ug/l  | 99     |
| 10) Methyl Iodide             | 4.30 | 142  | 221189   | 51.839  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 5.24 | 59   | 56157    | 266.624 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 4.06 | 96   | 183855   | 51.352  | ug/l  | 99     |
| 13) Acrolein                  | 3.93 | 56   | 76102    | 293.762 | ug/l  | 96     |
| 14) Allyl chloride            | 4.71 | 41   | 317777   | 53.404  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.44 | 53   | 225429   | 293.723 | ug/l  | 99     |
| 16) Acetone                   | 4.17 | 43   | 227417   | 263.864 | ug/l  | 99     |
| 17) Carbon Disulfide          | 4.40 | 76   | 617476   | 53.715  | ug/l  | 98     |
| 18) Methyl Acetate            | 4.73 | 43   | 104649   | 58.116  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.48 | 73   | 449668   | 56.796  | ug/l  | 98     |
| 20) Methylene Chloride        | 4.96 | 84   | 226671   | 60.562  | ug/l  | 94     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96   | 220156   | 54.350  | ug/l  | 97     |
| 22) Diisopropyl ether         | 6.37 | 45   | 672156   | 59.886  | ug/l  | 98     |
| 23) Vinyl Acetate             | 6.31 | 43   | 1813544  | 289.891 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.27 | 63   | 388583   | 57.198  | ug/l  | 99     |
| 25) 2-Butanone                | 7.23 | 43   | 293965   | 285.935 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.21 | 77   | 311035   | 51.079  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96   | 240341   | 55.850  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.55 | 49   | 162061   | 62.930  | ug/l  | 97     |
| 29) Tetrahydrofuran           | 7.57 | 42   | 182949   | 294.263 | ug/l  | 98     |
| 30) Chloroform                | 7.71 | 83   | 393290   | 58.141  | ug/l  | 96     |
| 31) Cyclohexane               | 7.98 | 56   | 336420   | 49.057  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97   | 338957   | 53.792  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75   | 299714   | 51.817  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.30 | 43   | 132571   | 56.102  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117  | 304326   | 51.515  | ug/l  | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 347793   | 48.714   | ug/l   | 100      |
| 40) Benzene                    | 8.36  | 78   | 889633   | 55.697   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 60583    | 46.537   | ug/l # | 89       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 257956   | 56.679   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 250572   | 55.433   | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 235402   | 51.345   | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 221899   | 57.943   | ug/l   | 98       |
| 46) Dibromomethane             | 9.48  | 93   | 116896   | 58.088   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.67  | 83   | 309642   | 58.397   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 118360   | 54.415   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 26636    | 1117.513 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 646644   | 290.633  | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 561703   | 55.099   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 291215   | 56.409   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 344885   | 55.857   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 155865   | 56.468   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 202939   | 58.107   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.96 | 76   | 280536   | 57.798   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 284830   | 252.614  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 453178   | 287.552  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.15 | 129  | 207761   | 58.111   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 151054   | 56.006   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 238285   | 56.897   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.68 | 112  | 601967   | 53.399   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 227031   | 54.566   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.75 | 91   | 1050919  | 51.312   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 834667   | 106.776  | ug/l   | 99       |
| 69) o-Xylene                   | 12.19 | 106  | 371371   | 52.756   | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 673096   | 55.016   | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 122959   | 54.906   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.49 | 105  | 983351   | 49.590   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 232343   | 53.907   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 164326   | 52.654   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 221345   | 101.194  | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 242009   | 50.655   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 1176236  | 50.651   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.92 | 91   | 650658   | 50.266   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 820377   | 50.570   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 54702    | 50.015   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 693261   | 50.995   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 686631   | 49.060   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 826138   | 51.295   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 939752   | 49.162   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 901929   | 50.783   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 467013   | 52.208   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 449469   | 50.485   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 812831   | 49.584   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.13 | 117  | 168061   | 49.972   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 396967   | 51.811   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 26482    | 51.981   | ug/l   | 98       |

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ALS Vial : 24 Sample Multiplier: 1

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MSVOA\_D  
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Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 2020  
Response via : Initial Calibration

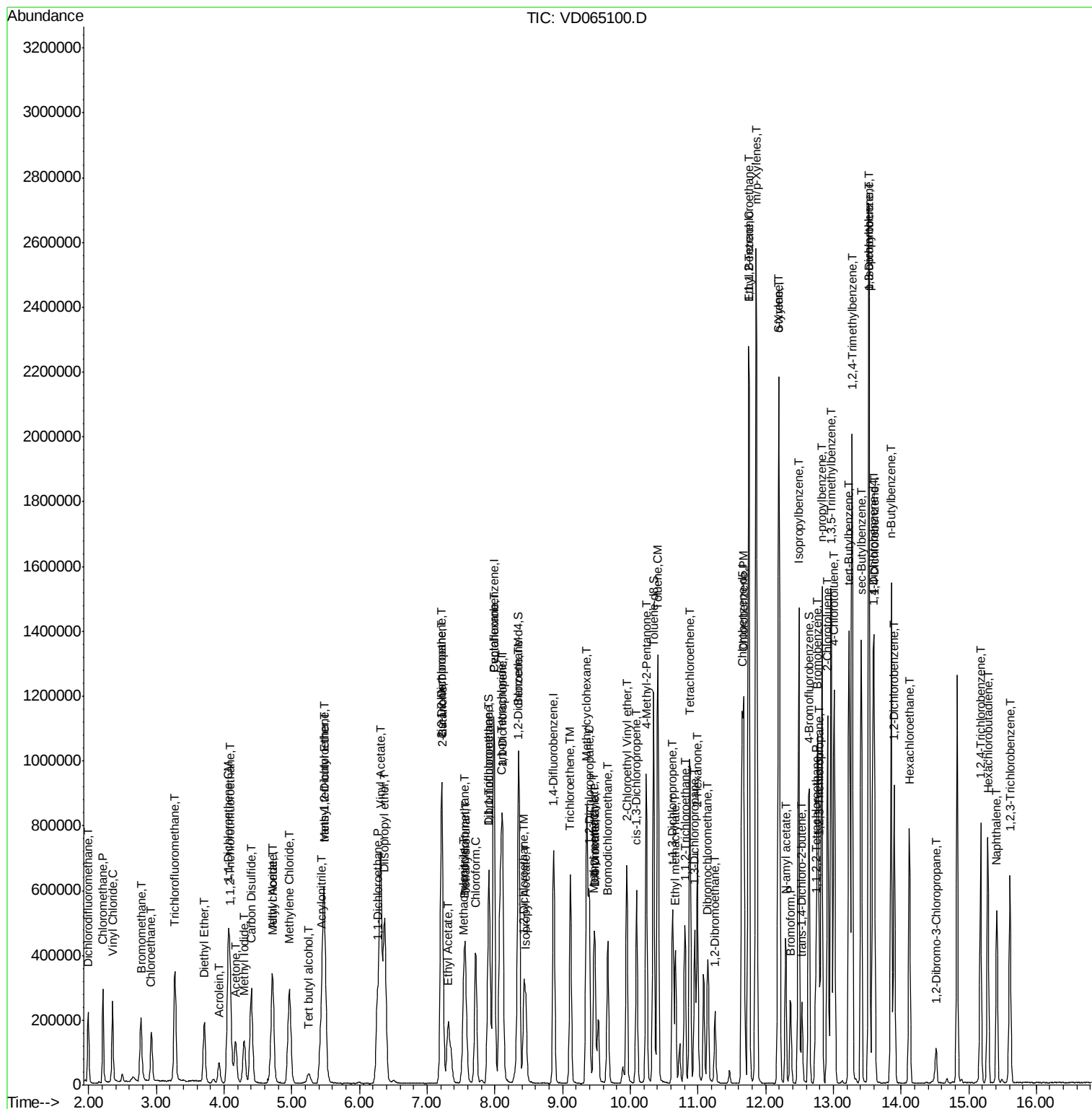
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.18 | 180  | 266903   | 48.739 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 155599   | 46.211 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 461576   | 50.712 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 232206   | 49.573 | ug/l  | 99       |

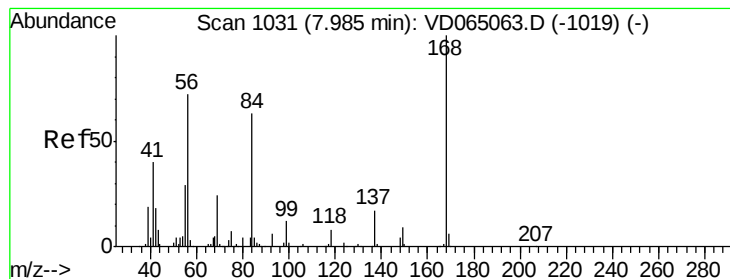
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

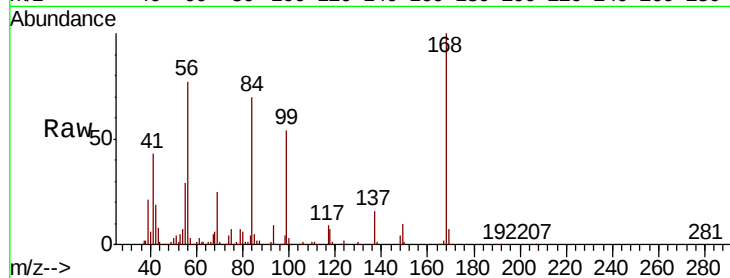
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 405599

Ion Ratio Lower Upper

168 100

99 54.1 41.0 61.6



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

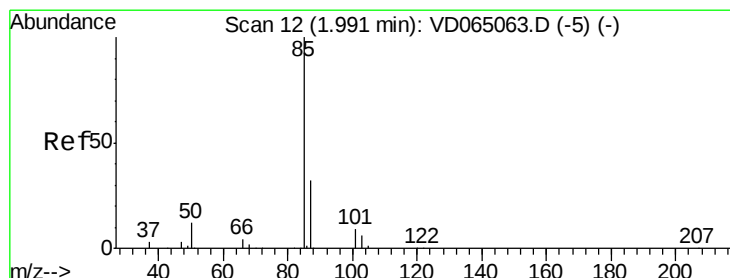
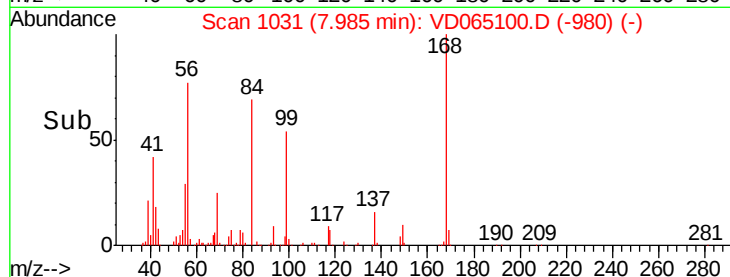
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 49.628 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065100.D

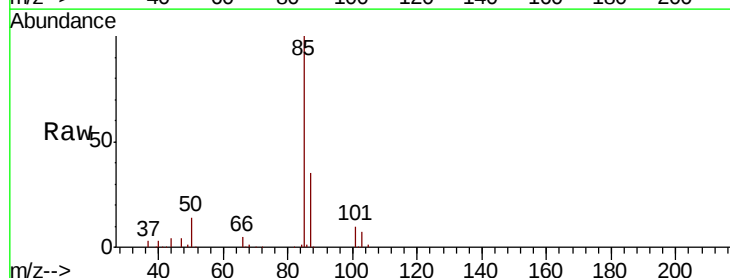
Acq: 06 Feb 2020 21:38

Tgt Ion: 85 Resp: 167508

Ion Ratio Lower Upper

85 100

87 34.9 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

100000

50000

0

1.90

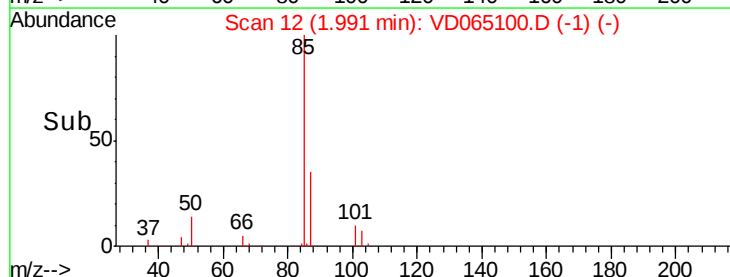
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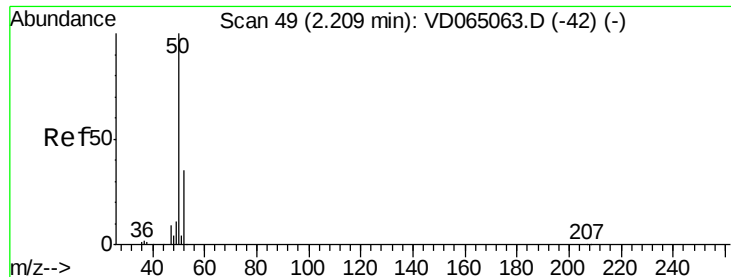
2.00

2.05

2.10

Time-->





#3

Chloromethane

Concen: 59.096 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

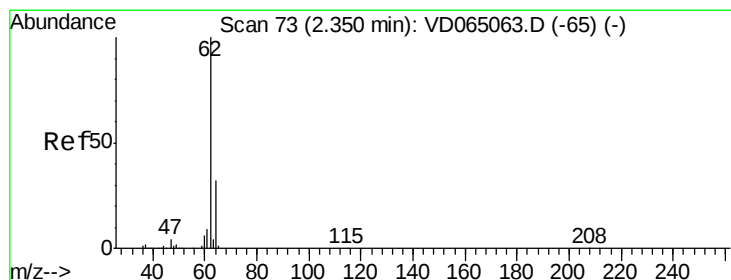
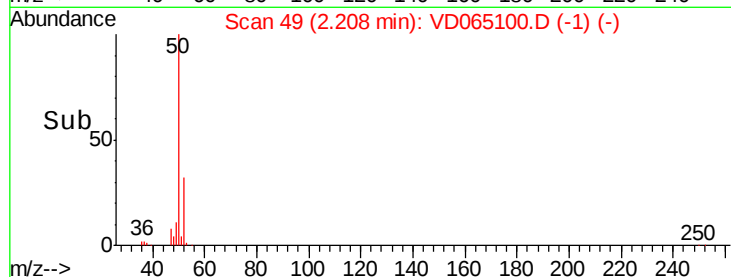
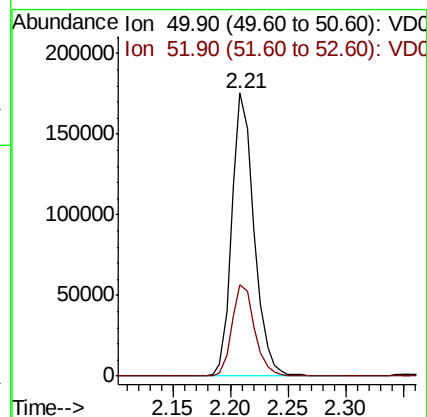
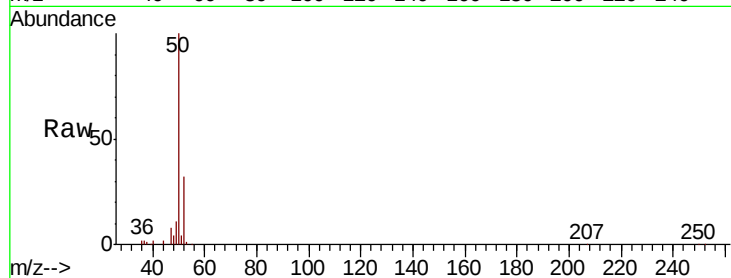
ClientSampleId :

Tot Ion: 50 Resp: 234801

Ion Ratio Lower Upper

50 100

52 32.5 27.8 41.6



#4

Vinyl Chloride

Concen: 55.725 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065100.D

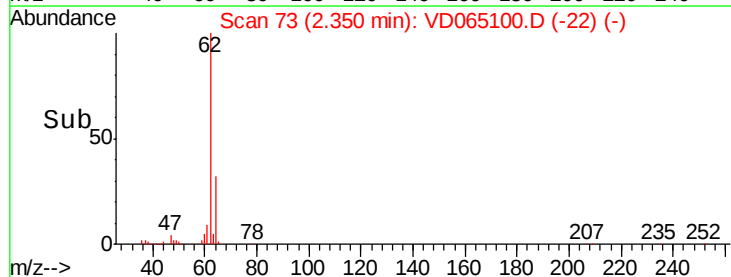
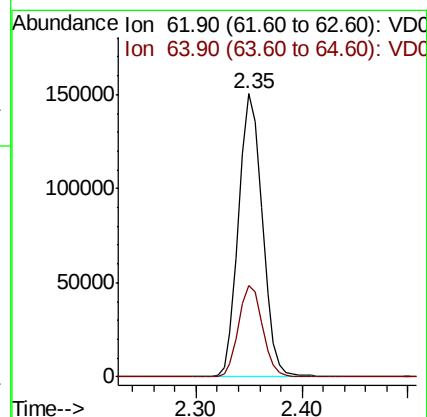
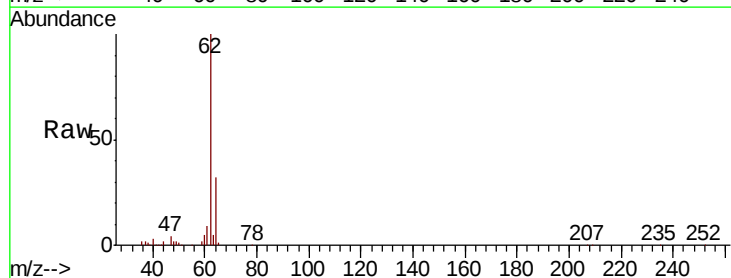
Acq: 06 Feb 2020 21:38

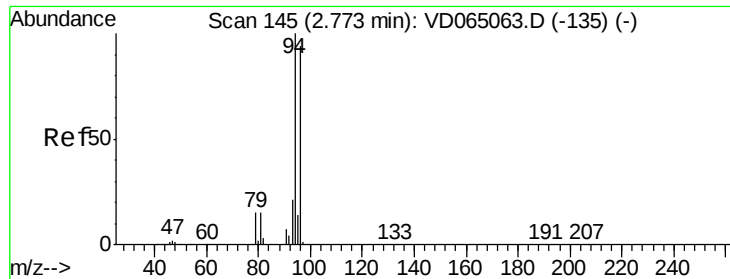
Tgt Ion: 62 Resp: 234153

Ion Ratio Lower Upper

62 100

64 32.4 25.9 38.9





#5

Bromomethane

Concen: 55.801 ug/l

RT: 2.77 min Scan# 145

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

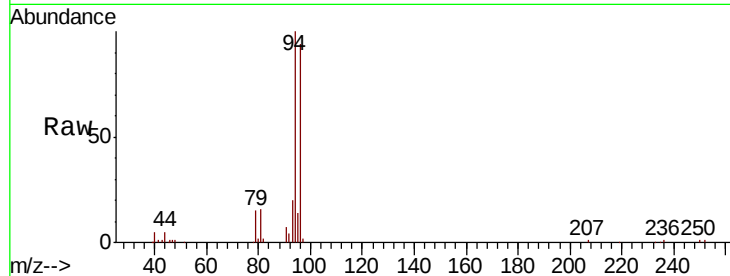
ClientSampleId :

Tot Ion: 94 Resp: 152031

Ion Ratio Lower Upper

94 100

96 94.0 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

80000

60000

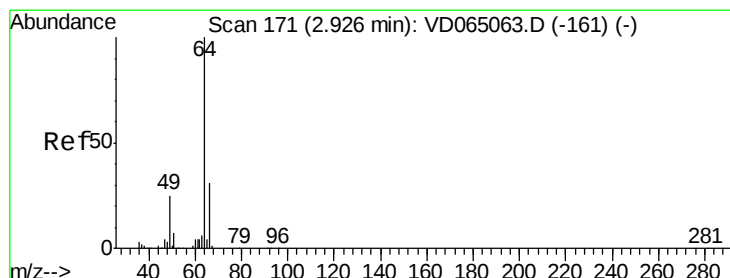
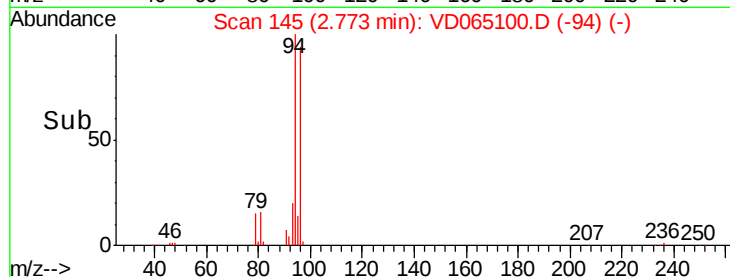
40000

20000

0

Time-->

2.70 2.80 2.90



#6

Chloroethane

Concen: 58.744 ug/l

RT: 2.93 min Scan# 171

Delta R.T. -0.00 min

Lab File: VD065100.D

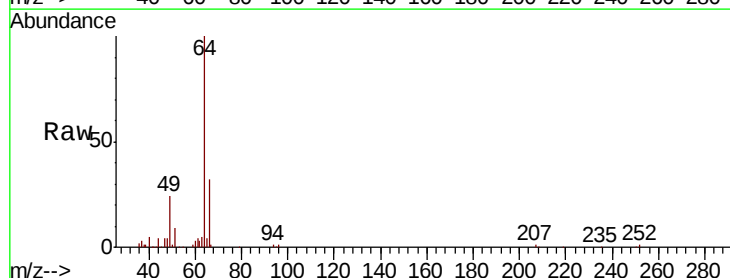
Acq: 06 Feb 2020 21:38

Tgt Ion: 64 Resp: 153116

Ion Ratio Lower Upper

64 100

66 31.9 24.8 37.2



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.93

80000

60000

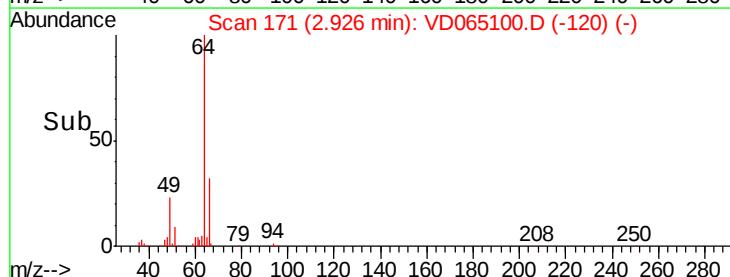
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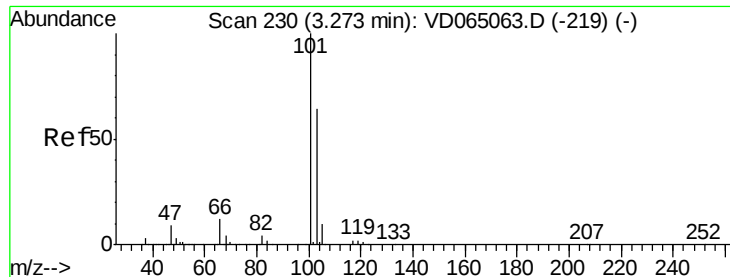
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0

Time-->

2.85 2.90 2.95 3.00



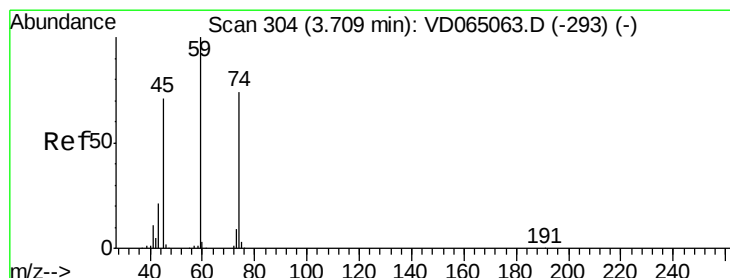
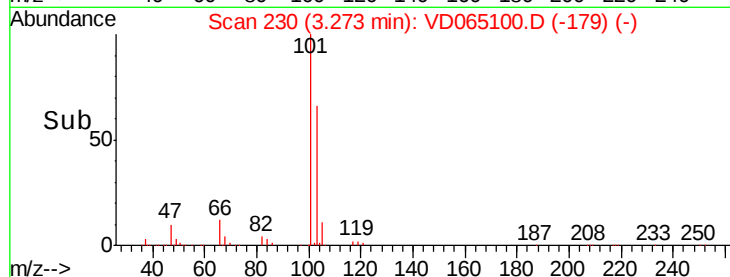
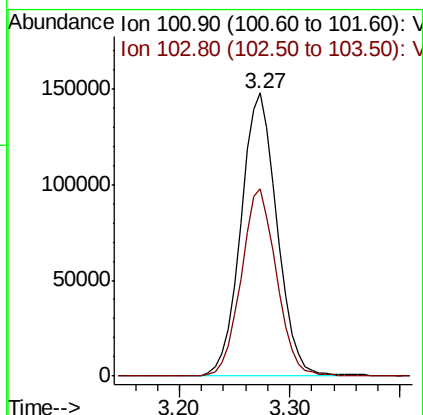
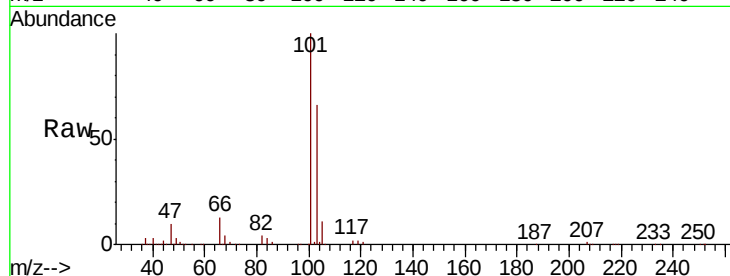


#7

Trichlorofluoromethane  
 Concen: 55.354 ug/l  
 RT: 3.27 min Scan# 230  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :

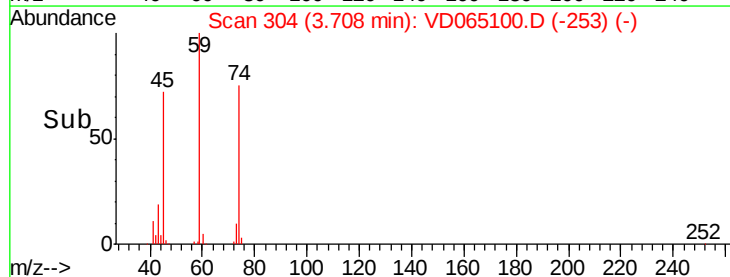
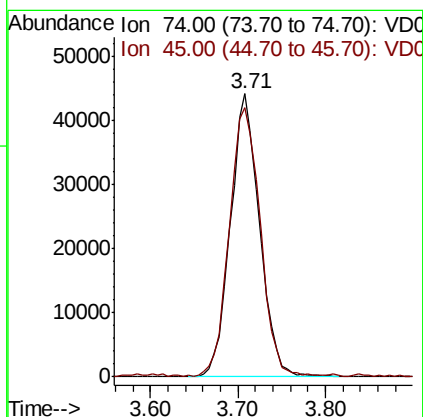
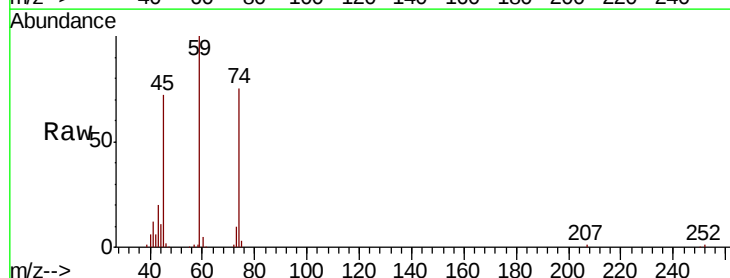
Tot Ion:101 Resp: 338497  
 Ion Ratio Lower Upper  
 101 100  
 103 66.1 51.0 76.6

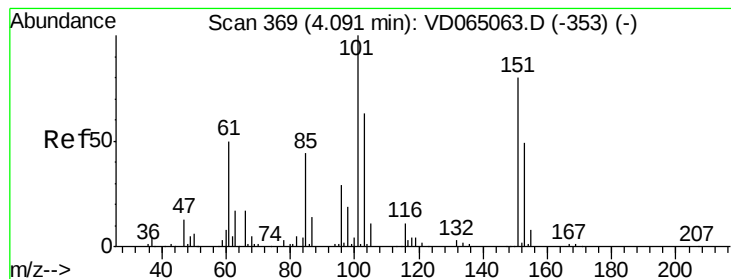


#8

Diethyl Ether  
 Concen: 56.881 ug/l  
 RT: 3.71 min Scan# 304  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion: 74 Resp: 99854  
 Ion Ratio Lower Upper  
 74 100  
 45 101.7 49.0 147.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.191 ug/l

RT: 4.09 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

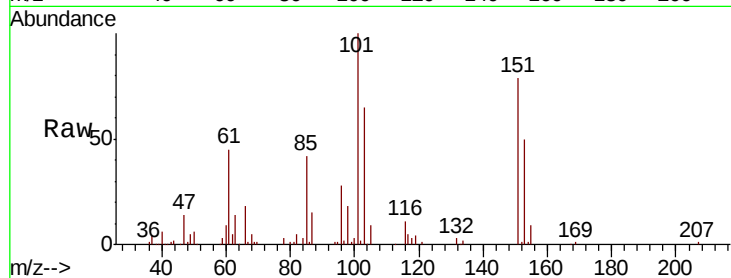
Tot Ion:101 Resp: 187630

Ion Ratio Lower Upper

101 100

85 43.2 34.0 51.0

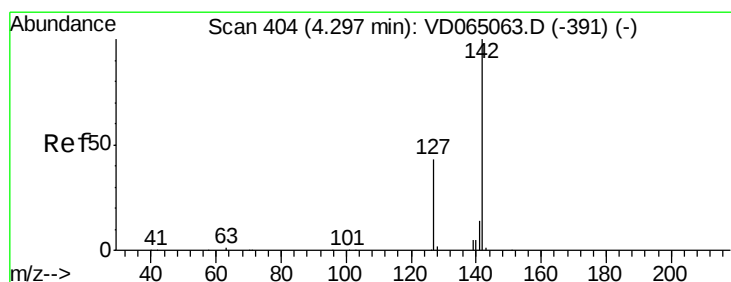
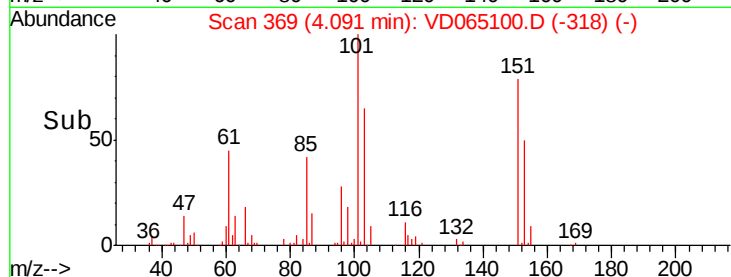
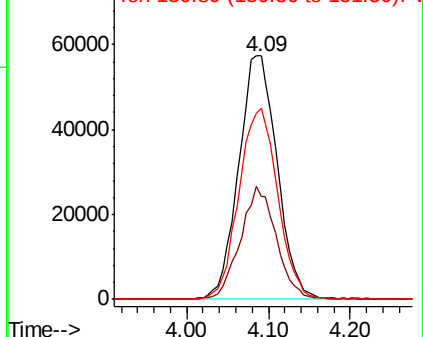
151 79.2 64.0 96.0



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: 51.839 ug/l

RT: 4.30 min Scan# 404

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

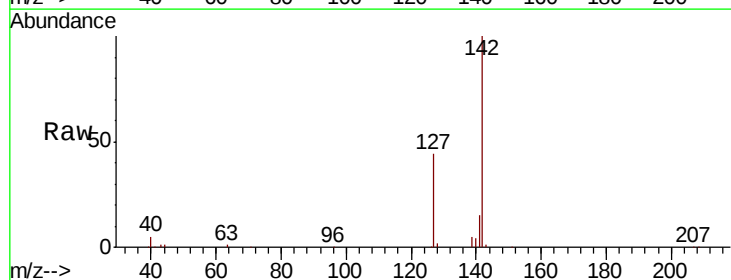
Tgt Ion:142 Resp: 221189

Ion Ratio Lower Upper

142 100

127 44.9 34.0 51.0

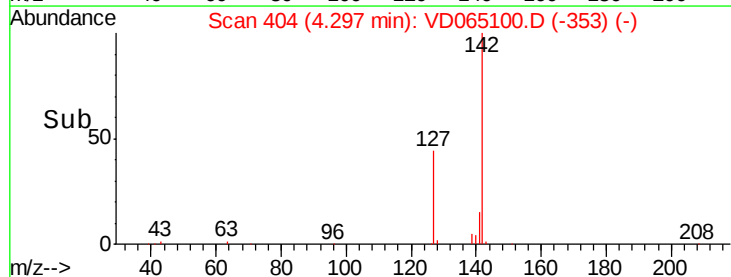
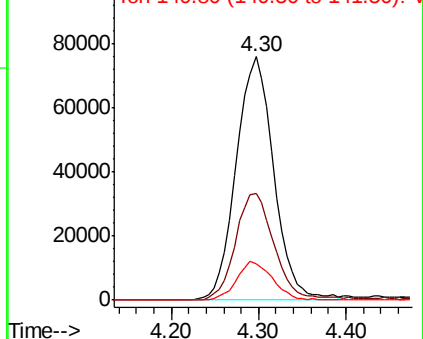
141 15.0 11.6 17.4

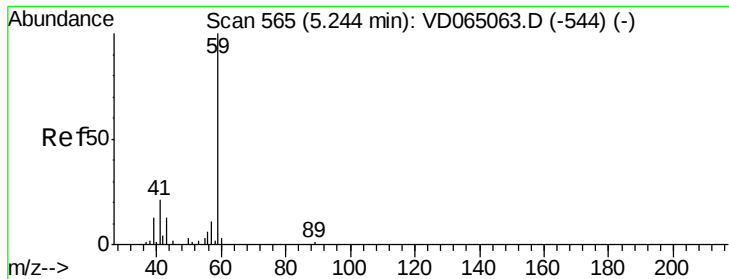


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



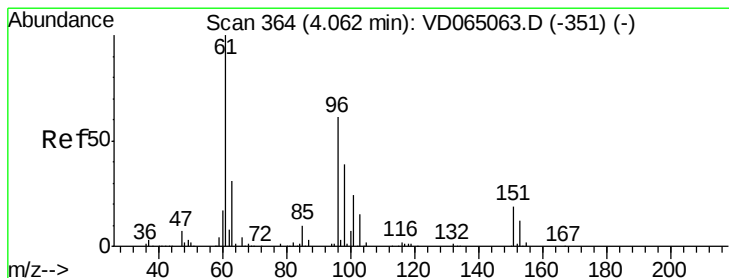
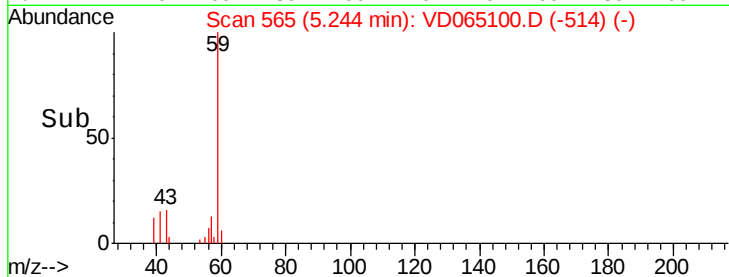
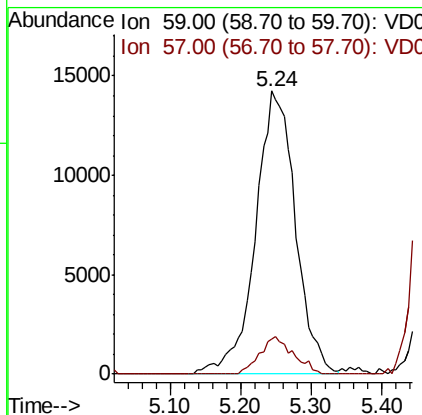
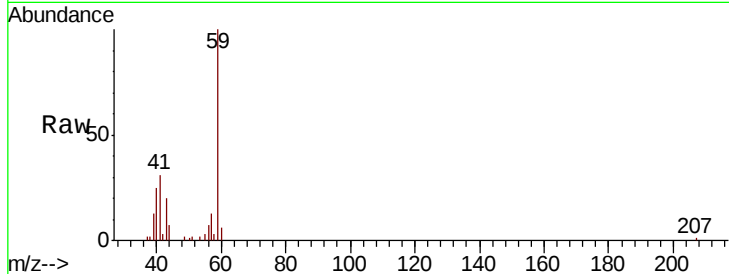


#11

Tert butyl alcohol  
 Concen: 266.624 ug/l  
 RT: 5.24 min Scan# 565  
 Delta R.T. 0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :

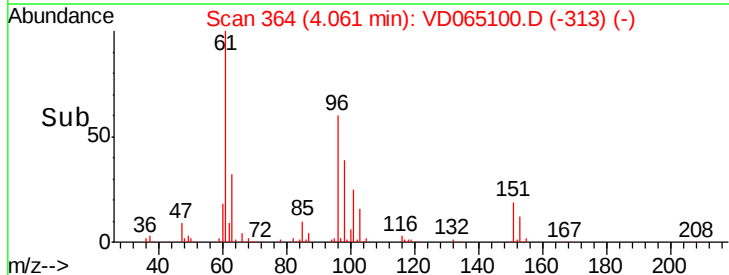
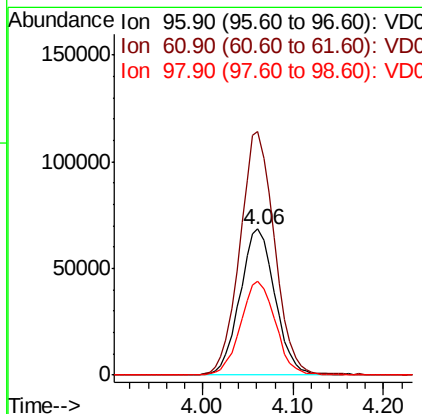
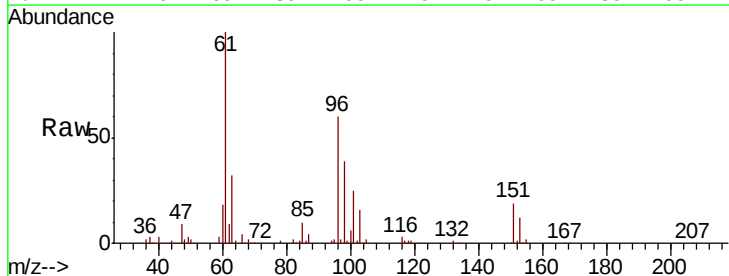
Tot Ion: 59 Resp: 56157  
 Ion Ratio Lower Upper  
 59 100  
 57 11.2 8.8 13.2

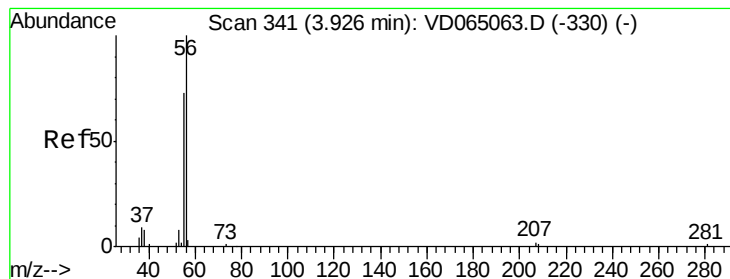


#12

1,1-Dichloroethene  
 Concen: 51.352 ug/l  
 RT: 4.06 min Scan# 364  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion: 96 Resp: 183855  
 Ion Ratio Lower Upper  
 96 100  
 61 166.7 131.4 197.2  
 98 64.3 51.1 76.7





#13

Acrolein

Concen: 293.762 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

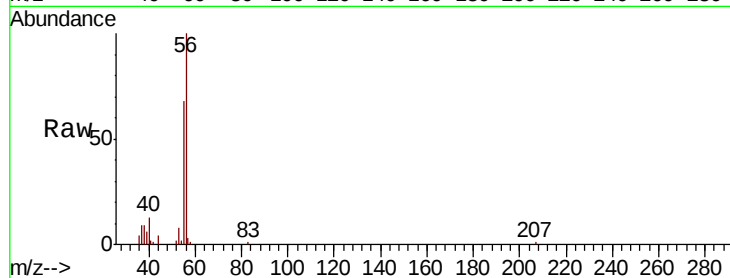
ClientSampleId :

Tot Ion: 56 Resp: 76102

Ion Ratio Lower Upper

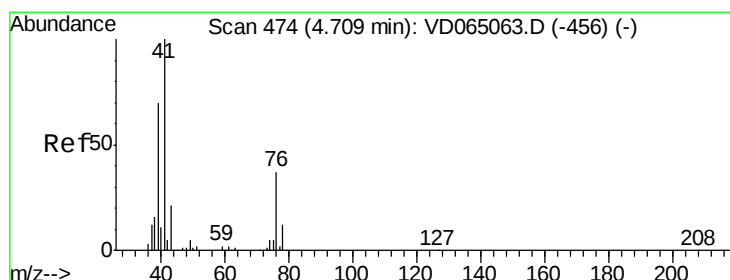
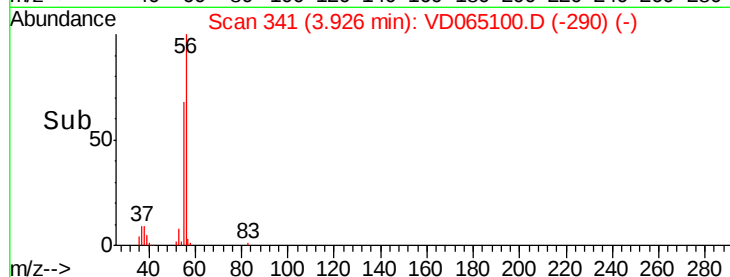
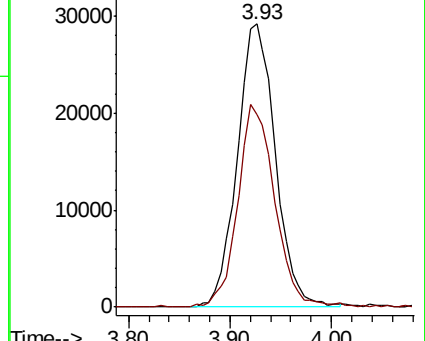
56 100

55 69.0 58.2 87.2



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 53.404 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

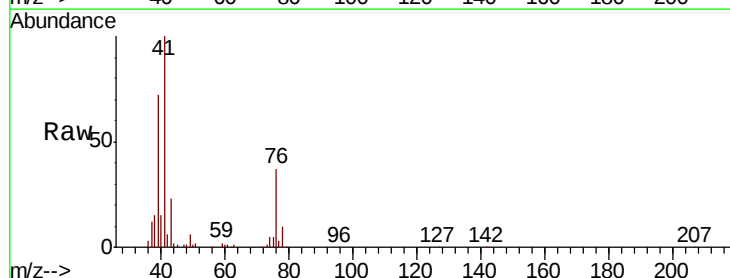
Tgt Ion: 41 Resp: 317777

Ion Ratio Lower Upper

41 100

39 71.6 57.1 85.7

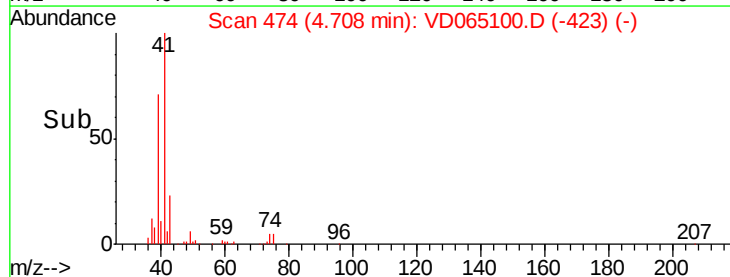
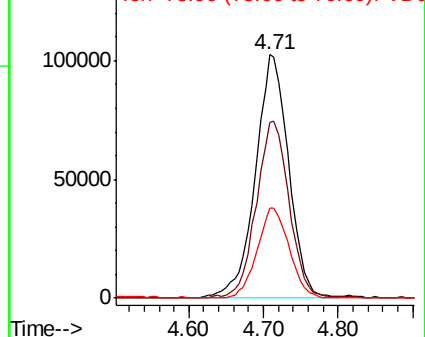
76 35.6 28.0 42.0

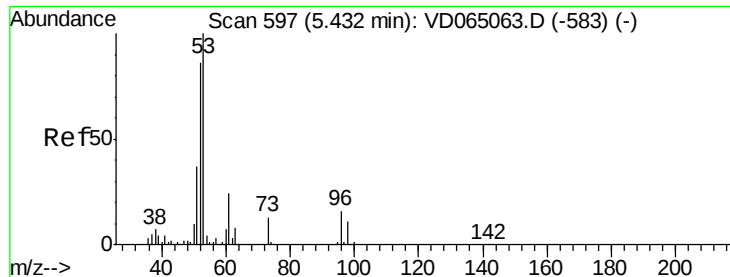


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 293.723 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.01 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

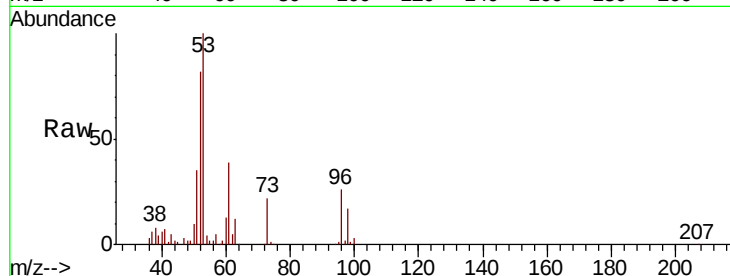
Tot Ion: 53 Resp: 225429

Ion Ratio Lower Upper

53 100

52 81.1 66.2 99.2

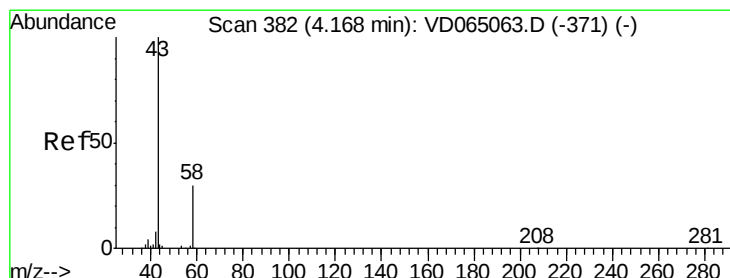
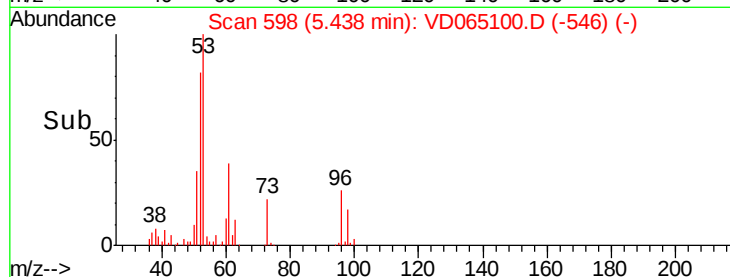
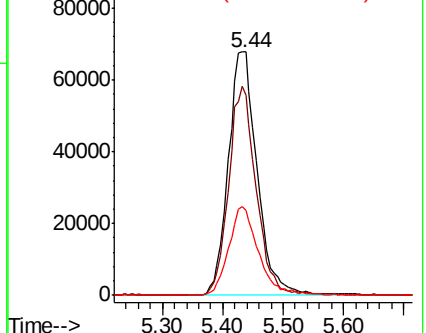
51 37.5 30.4 45.6



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 263.864 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD065100.D

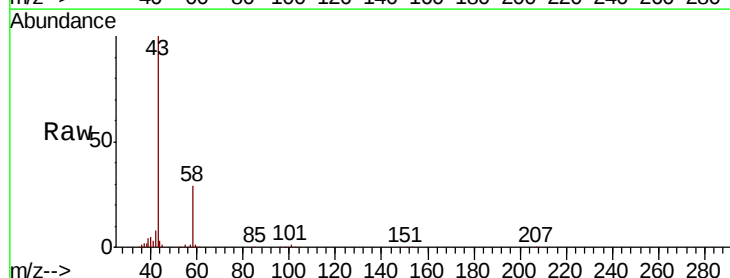
Acq: 06 Feb 2020 21:38

Tgt Ion: 43 Resp: 227417

Ion Ratio Lower Upper

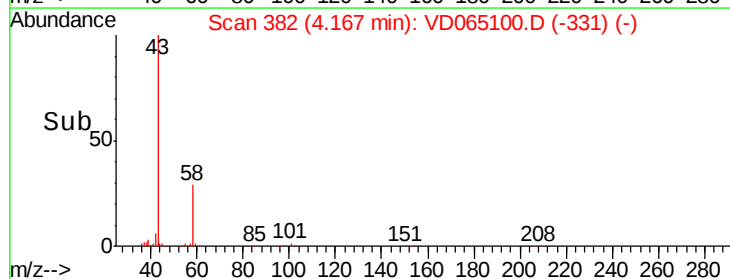
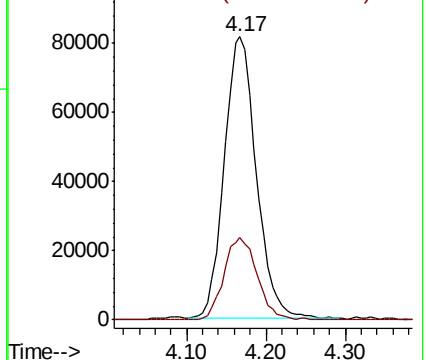
43 100

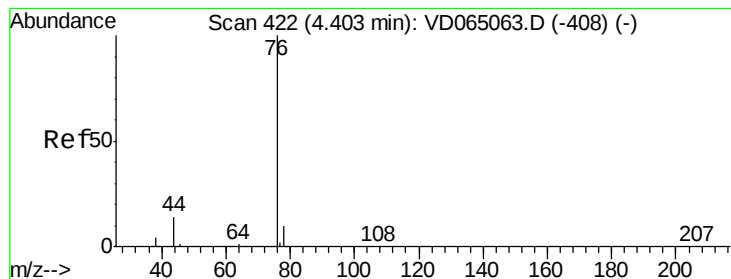
58 29.1 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 53.715 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

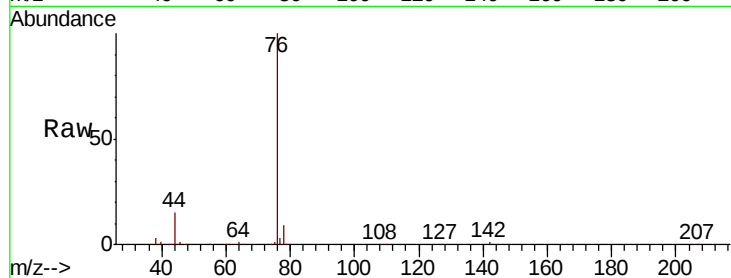
ClientSampleId :

Tot Ion: 76 Resp: 617476

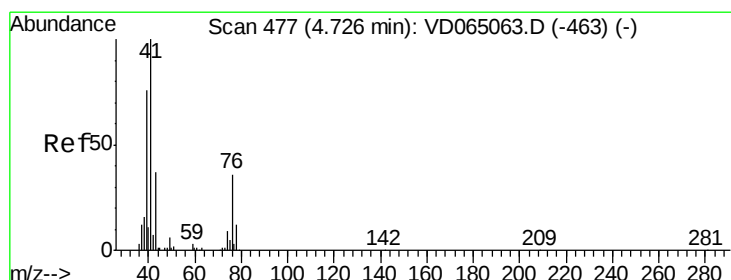
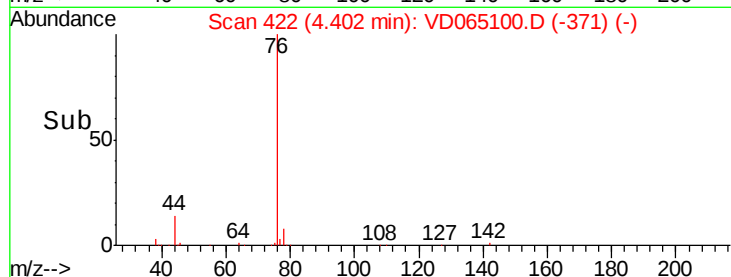
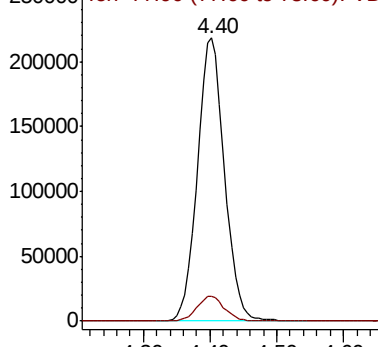
Ion Ratio Lower Upper

76 100

78 8.9 7.6 11.4



Abundance Ion 75.90 (75.60 to 76.60): VDC  
Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 58.116 ug/l

RT: 4.73 min Scan# 477

Delta R.T. -0.00 min

Lab File: VD065100.D

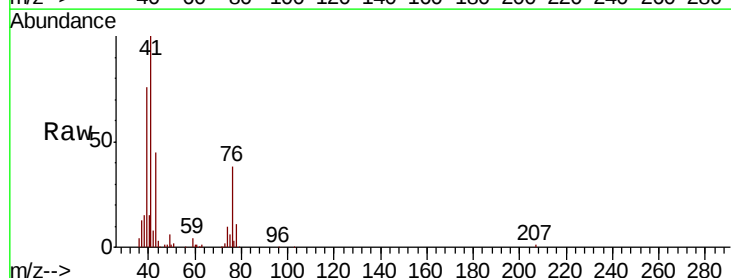
Acq: 06 Feb 2020 21:38

Tgt Ion: 43 Resp: 104649

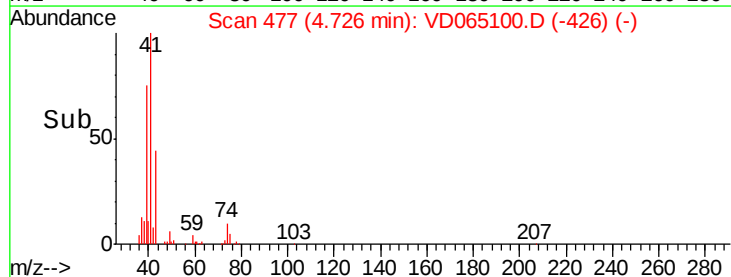
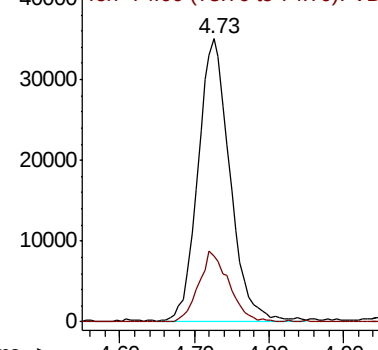
Ion Ratio Lower Upper

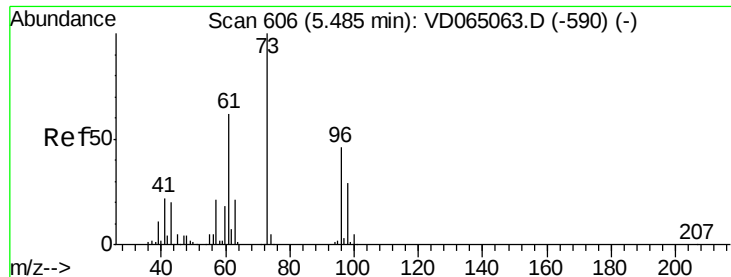
43 100

74 23.5 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 74.00 (73.70 to 74.70): VDC



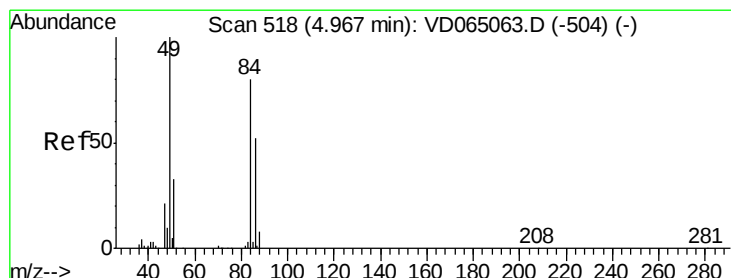
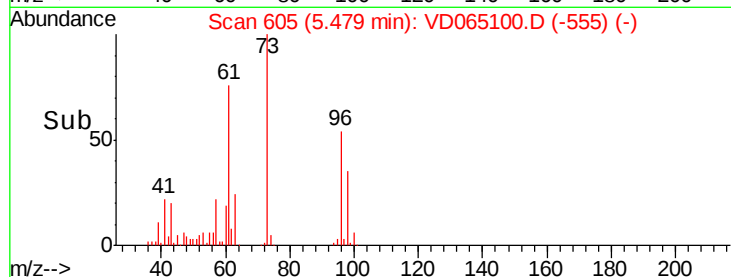
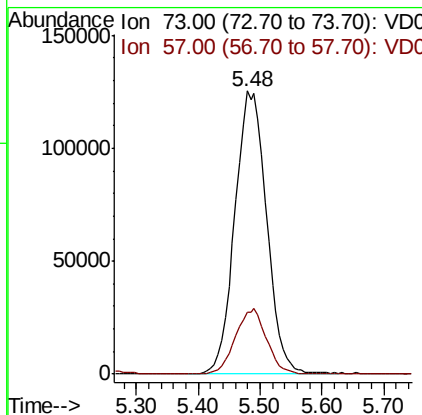
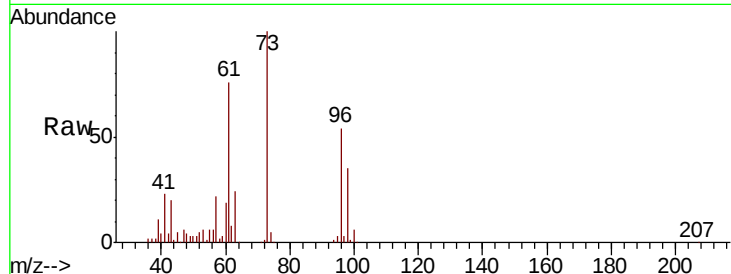


#19

Methyl tert-butyl Ether  
 Concen: 56.796 ug/l  
 RT: 5.48 min Scan# 605  
 Delta R.T. -0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Instrument :  
 MSVOA\_D  
 ClientSampled :

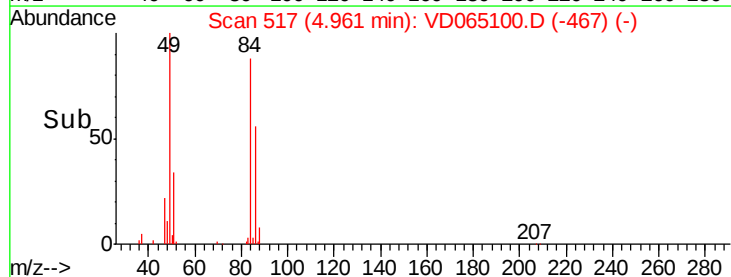
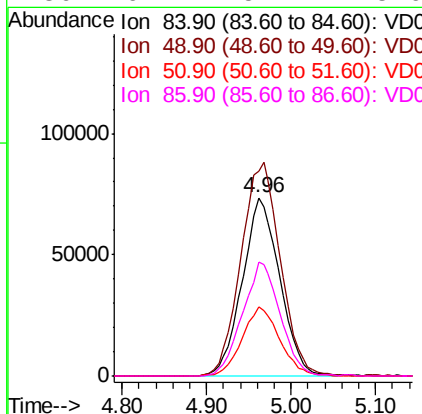
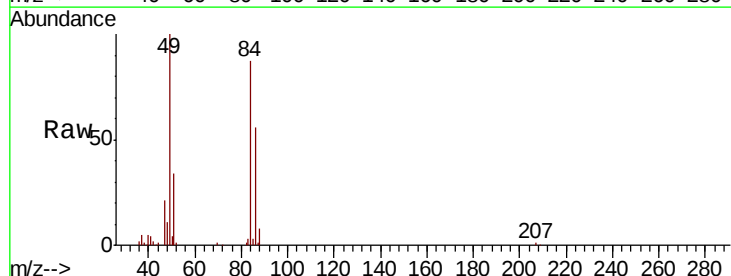
Tot Ion: 73 Resp: 449668  
 Ion Ratio Lower Upper  
 73 100  
 57 21.9 16.8 25.2

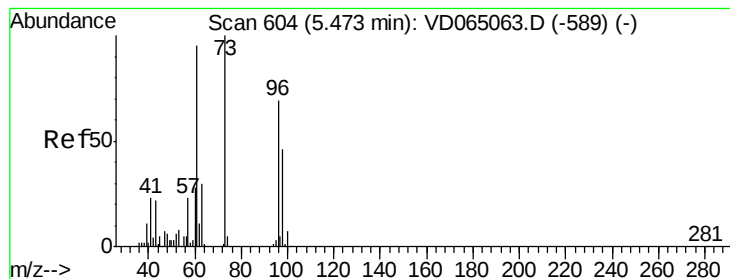


#20

Methylene Chloride  
 Concen: 60.562 ug/l  
 RT: 4.96 min Scan# 517  
 Delta R.T. -0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion: 84 Resp: 226671  
 Ion Ratio Lower Upper  
 84 100  
 49 114.7 100.4 150.6  
 51 38.6 32.7 49.1  
 86 64.2 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 54.350 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampled :

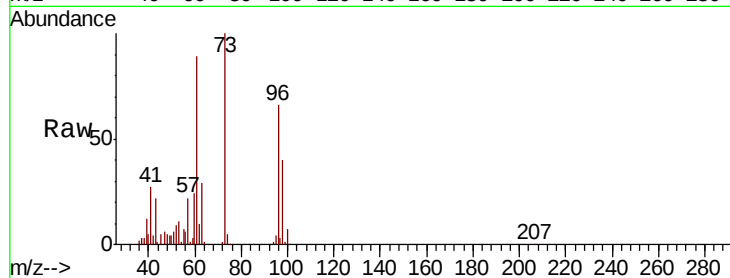
Tot Ion: 96 Resp: 220156

Ion Ratio Lower Upper

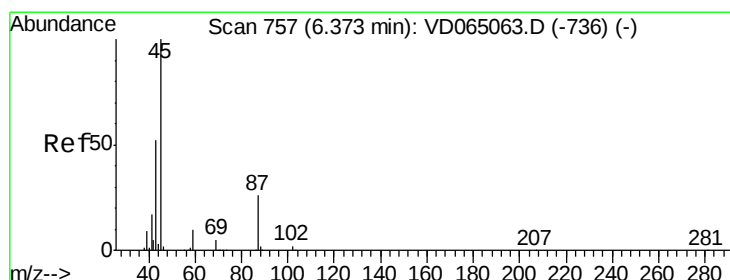
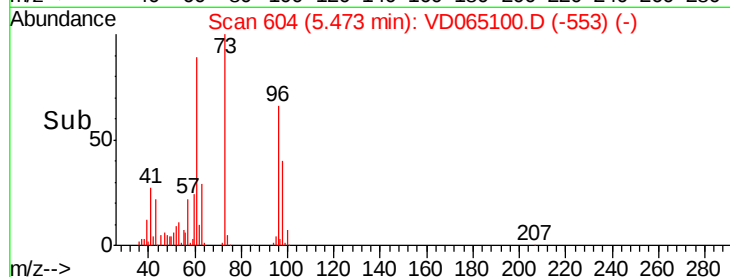
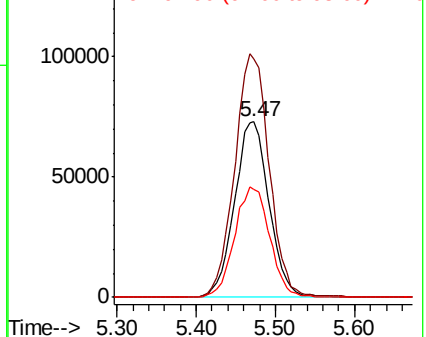
96 100

61 136.2 109.5 164.3

98 61.4 53.7 80.5



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: 59.886 ug/l

RT: 6.37 min Scan# 757

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Tgt Ion: 45 Resp: 672156

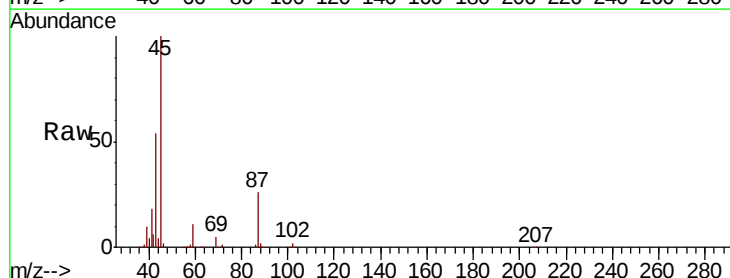
Ion Ratio Lower Upper

45 100

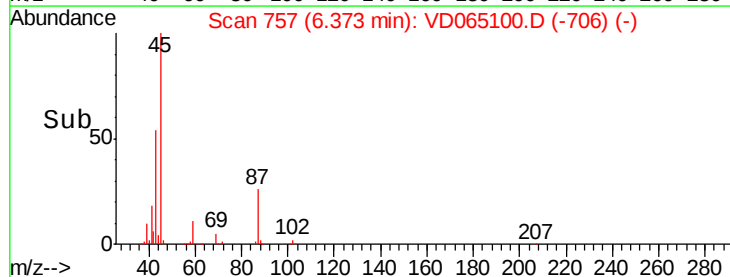
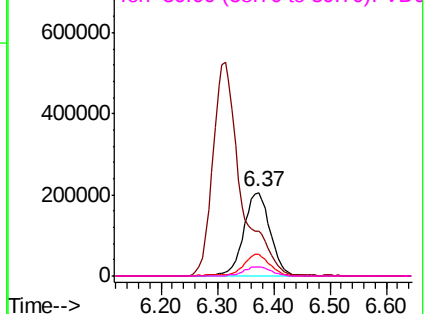
43 53.8 41.3 61.9

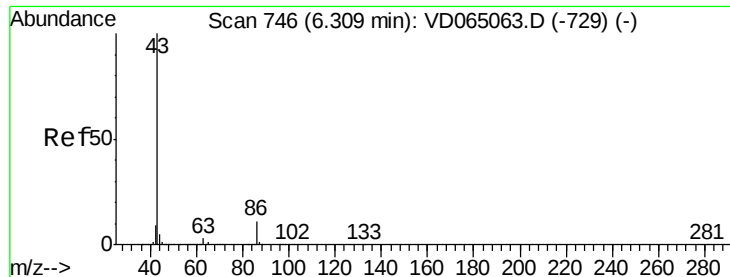
87 25.9 21.0 31.6

59 11.2 8.2 12.4



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: 289.891 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.01 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

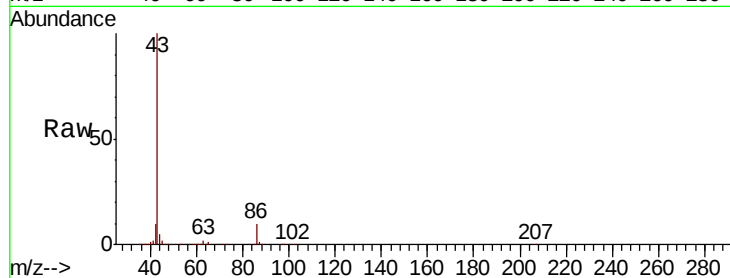
ClientSampleId :

Tot Ion: 43 Resp: 1813544

Ion Ratio Lower Upper

43 100

86 10.4 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

500000

400000

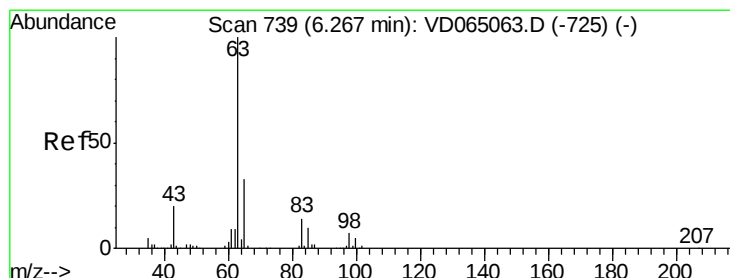
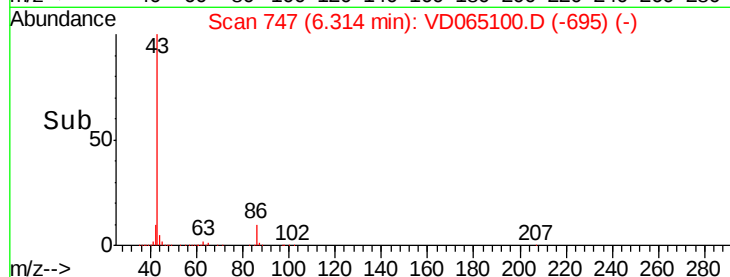
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 57.198 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

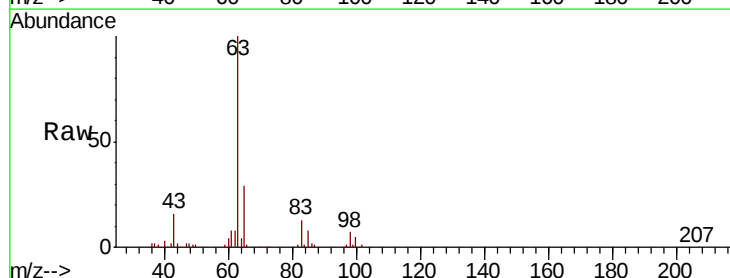
Tgt Ion: 63 Resp: 388583

Ion Ratio Lower Upper

63 100

98 7.2 3.5 10.4

100 4.8 2.5 7.6



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

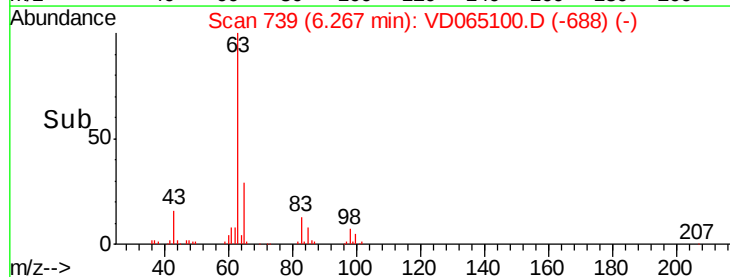
150000

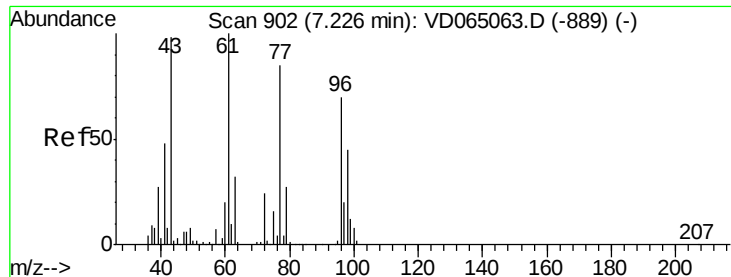
100000

50000

0

Time-->





#25

2-Butanone

Concen: 285.935 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

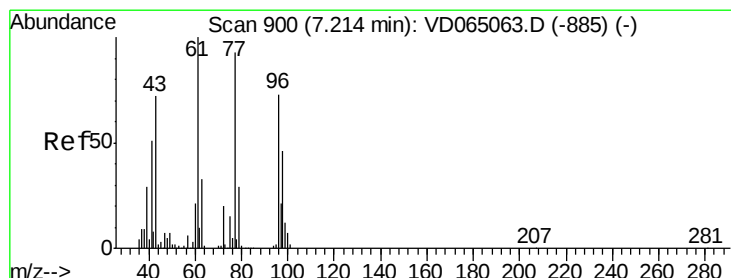
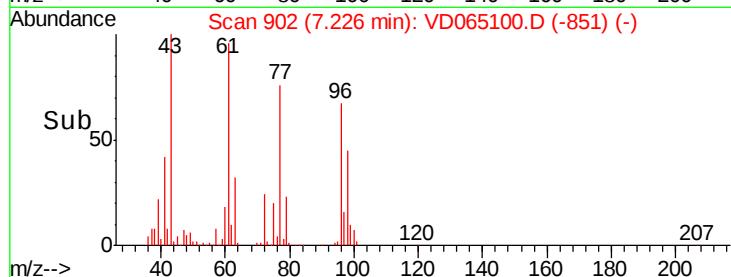
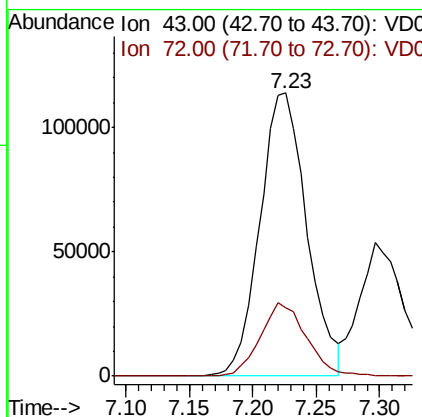
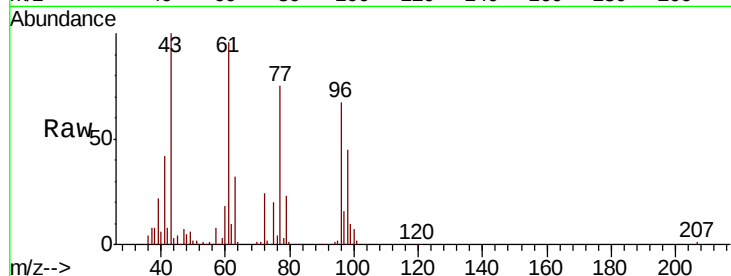
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 43 Resp: 293965

Ion Ratio Lower Upper

43 100

72 24.2 19.9 29.9



#26

2,2-Dichloropropane

Concen: 51.079 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065100.D

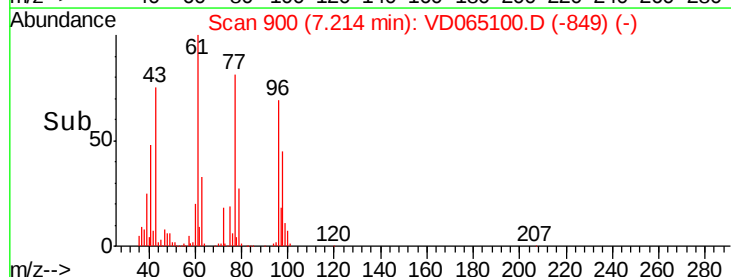
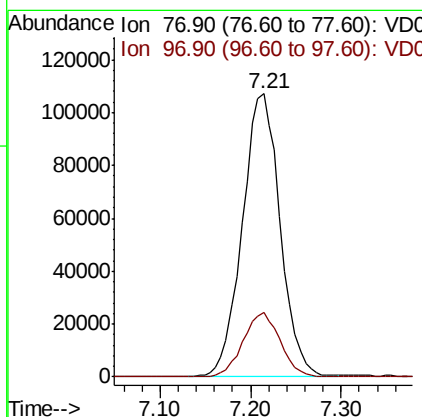
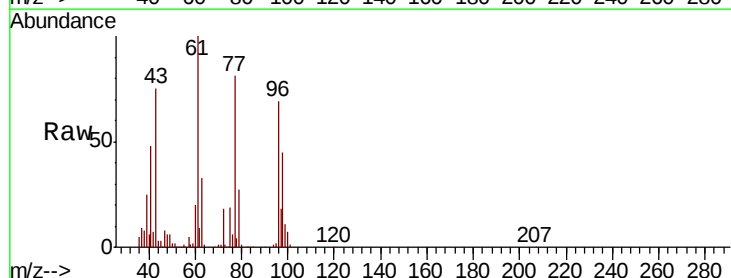
Acq: 06 Feb 2020 21:38

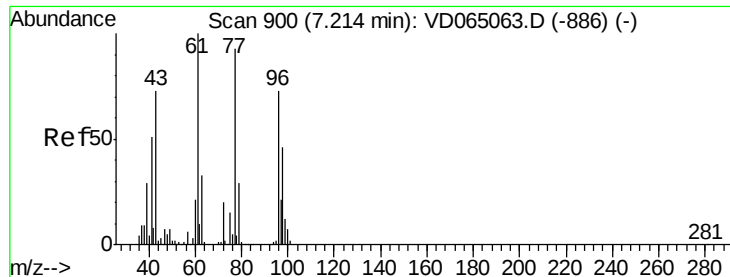
Tgt Ion: 77 Resp: 311035

Ion Ratio Lower Upper

77 100

97 22.2 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 55.850 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

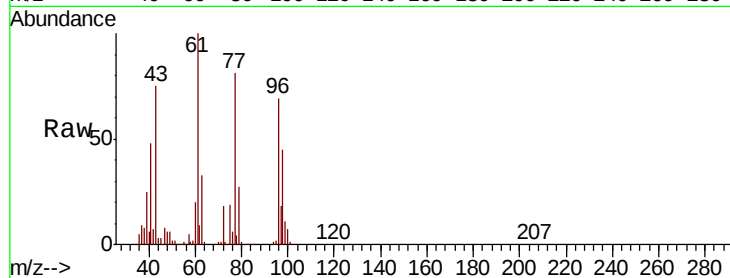
Tot Ion: 96 Resp: 240341

Ion Ratio Lower Upper

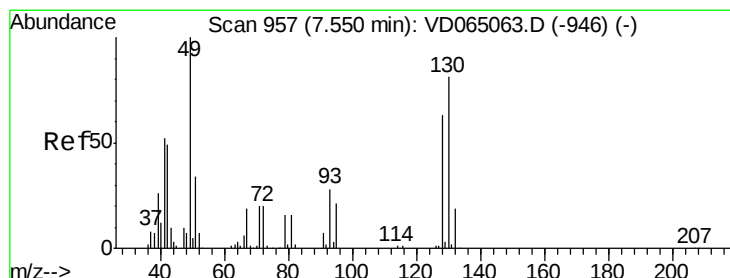
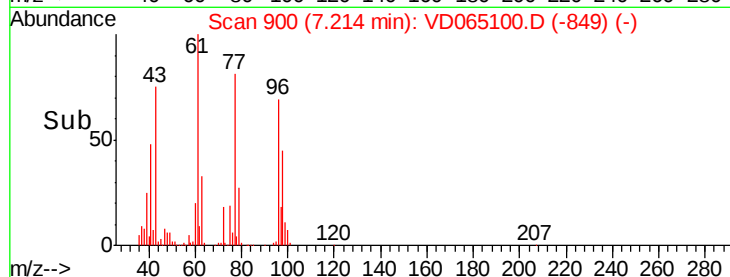
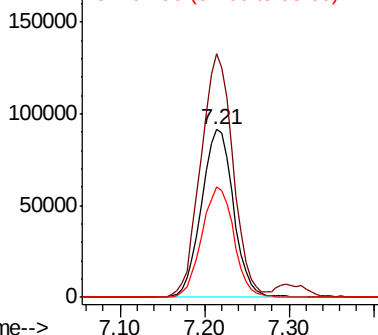
96 100

61 145.5 0.0 292.8

98 65.4 0.0 128.8



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: 62.930 ug/l

RT: 7.55 min Scan# 957

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

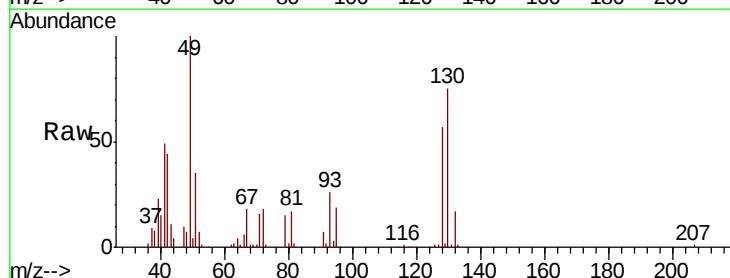
Tgt Ion: 49 Resp: 162061

Ion Ratio Lower Upper

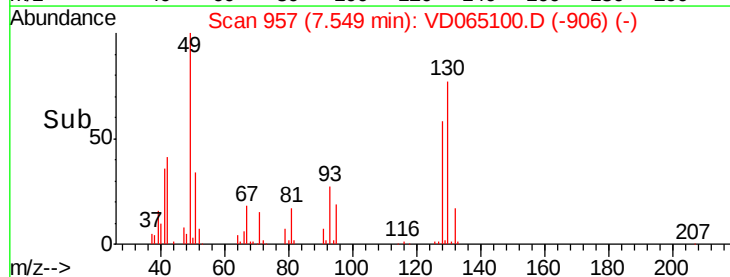
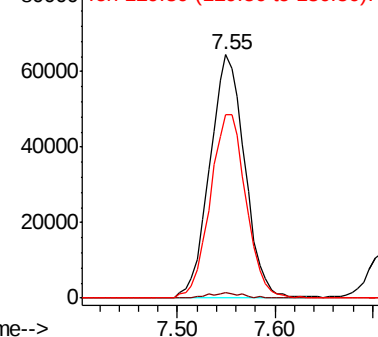
49 100

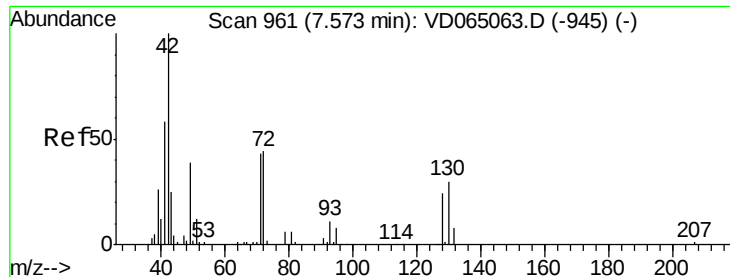
129 2.1 0.0 4.4

130 76.7 63.8 95.8



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: 294.263 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

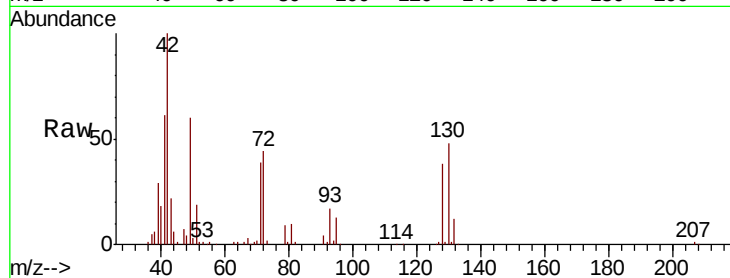
Tot Ion: 42 Resp: 182949

Ion Ratio Lower Upper

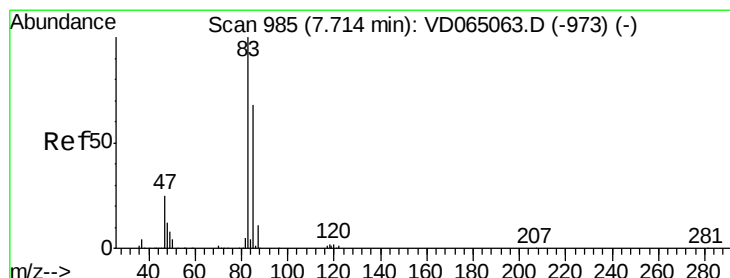
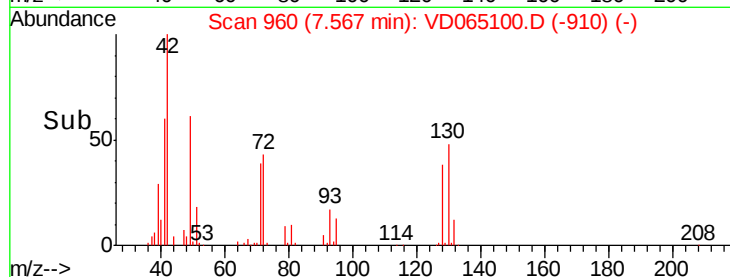
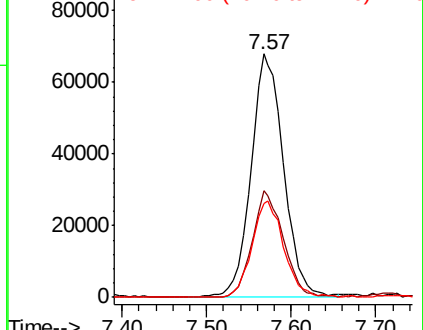
42 100

72 41.5 34.2 51.4

71 38.7 31.8 47.6



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 58.141 ug/l

RT: 7.71 min Scan# 985

Delta R.T. -0.00 min

Lab File: VD065100.D

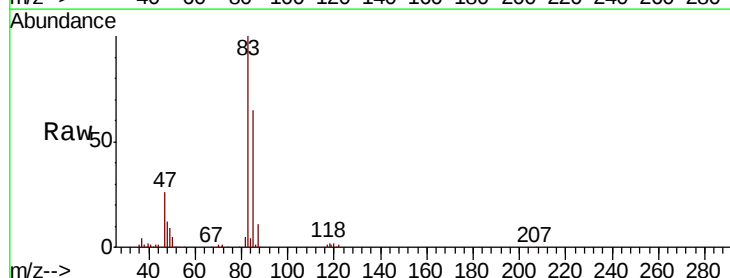
Acq: 06 Feb 2020 21:38

Tgt Ion: 83 Resp: 393290

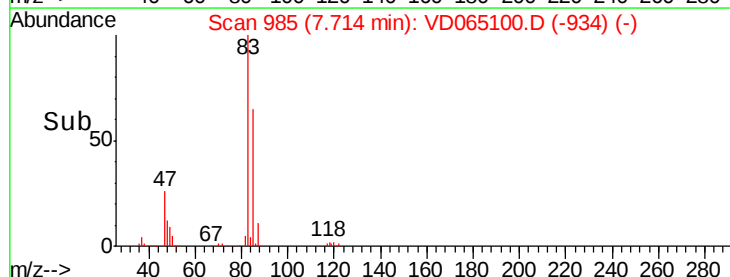
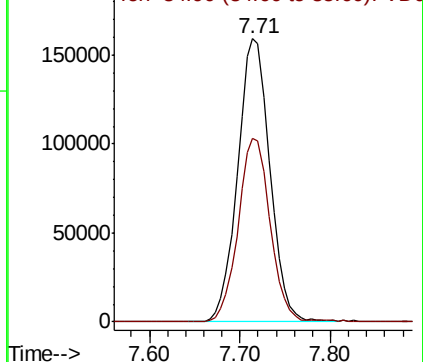
Ion Ratio Lower Upper

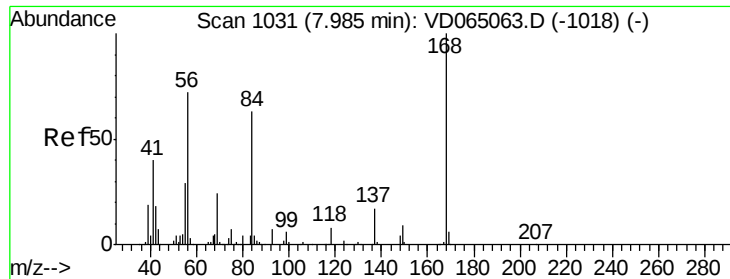
83 100

85 64.6 54.2 81.4



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

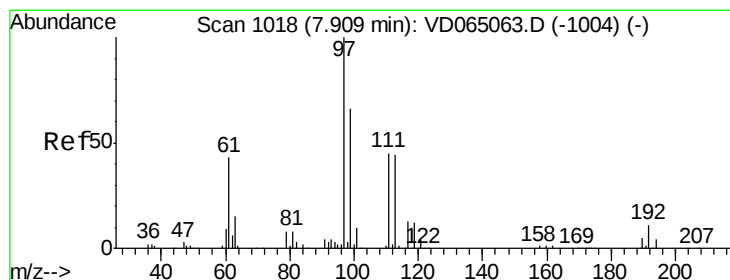
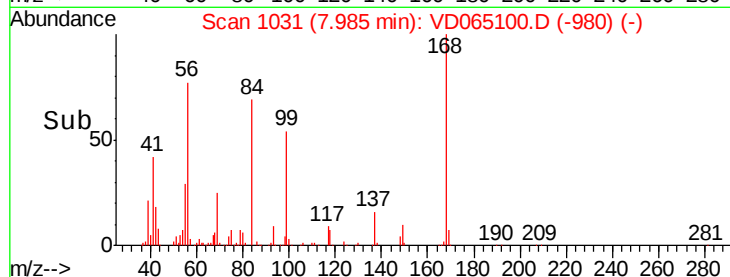
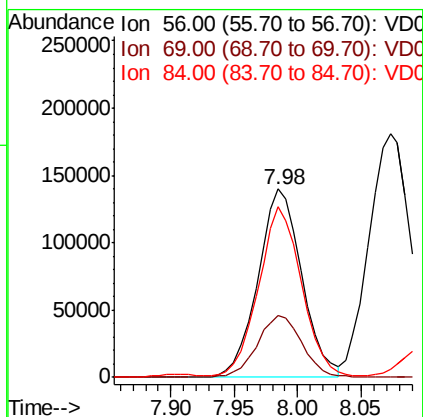
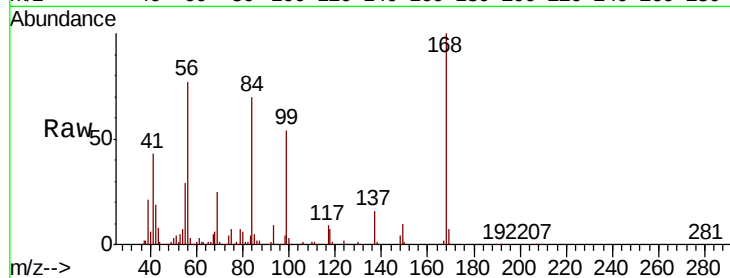




#31  
Cyclohexane  
Concen: 49.057 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

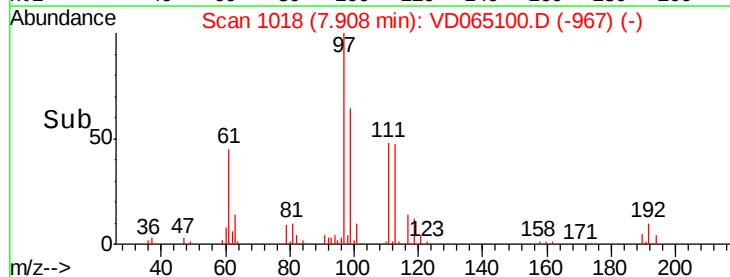
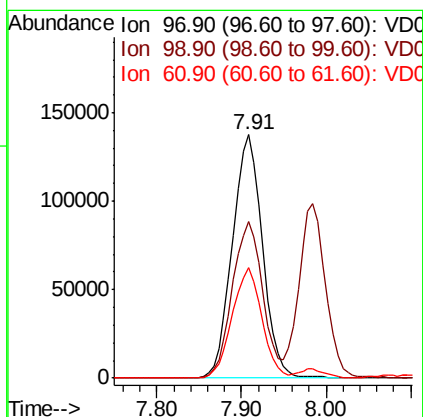
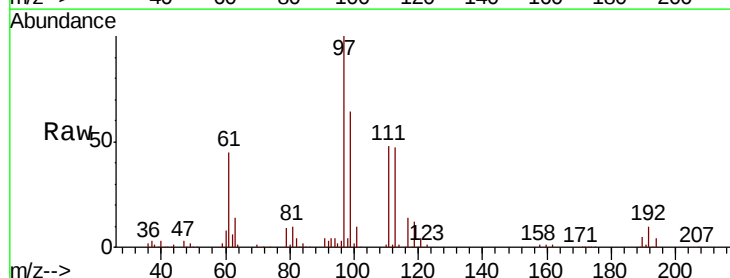
Instrument :  
MSVOA\_D  
ClientSampled :

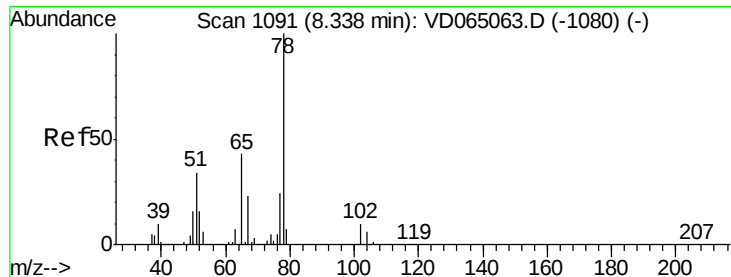
Tot Ion: 56 Resp: 336420  
Ion Ratio Lower Upper  
56 100  
69 32.6 26.6 40.0  
84 89.4 70.6 106.0



#32  
1,1,1-Trichloroethane  
Concen: 53.792 ug/l  
RT: 7.91 min Scan# 1018  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 97 Resp: 338957  
Ion Ratio Lower Upper  
97 100  
99 65.5 51.5 77.3  
61 44.5 34.8 52.2

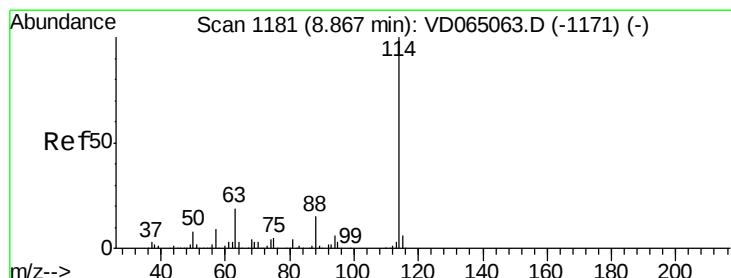
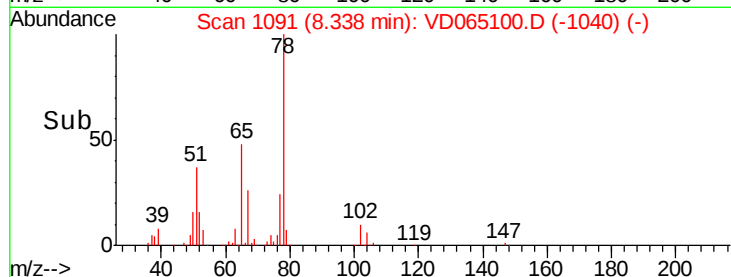
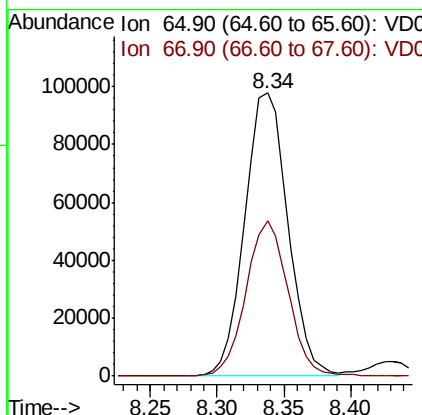
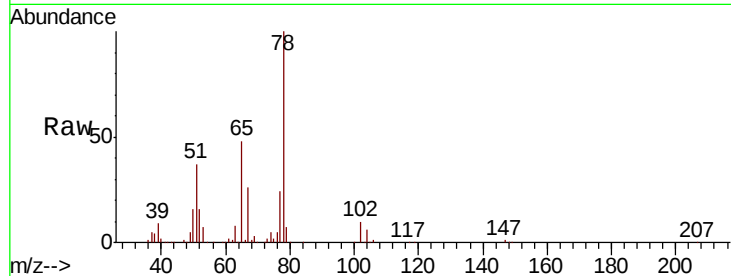




#33  
 1,2-Dichloroethane-d4  
 Concen: 63.586 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

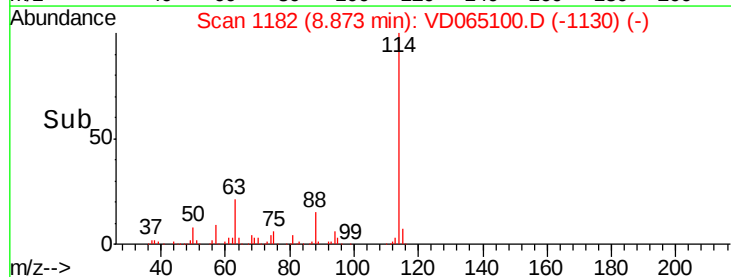
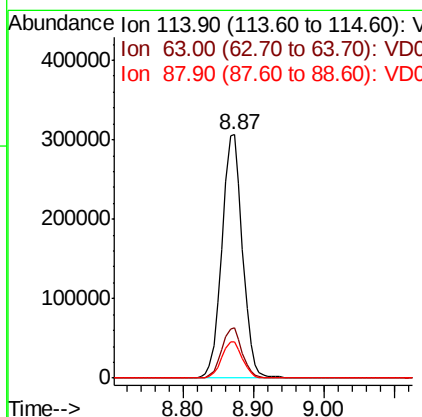
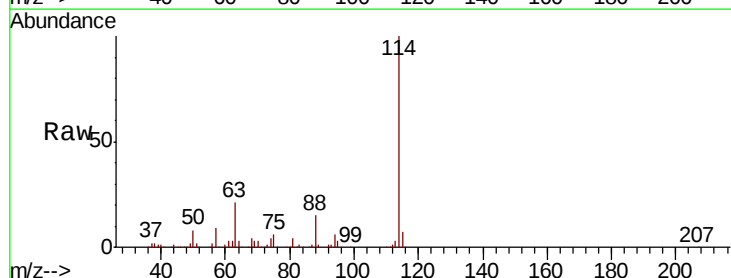
Instrument :  
 MSVOA\_D  
 ClientSampled :

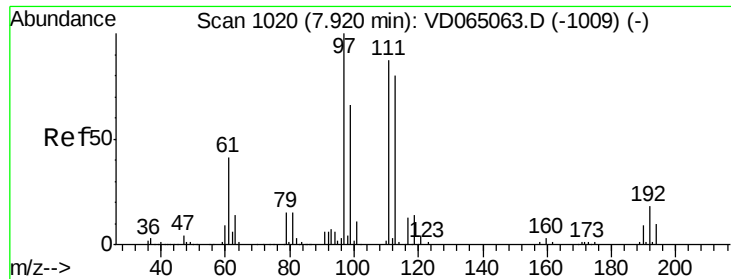
Tot Ion: 65 Resp: 219196  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1182  
 Delta R.T. 0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion: 114 Resp: 622047  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 38.8  
 88 15.1 0.0 29.6

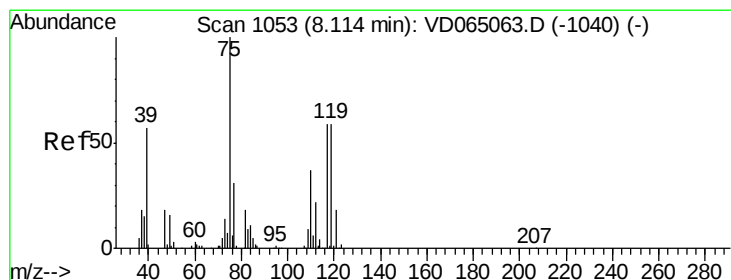
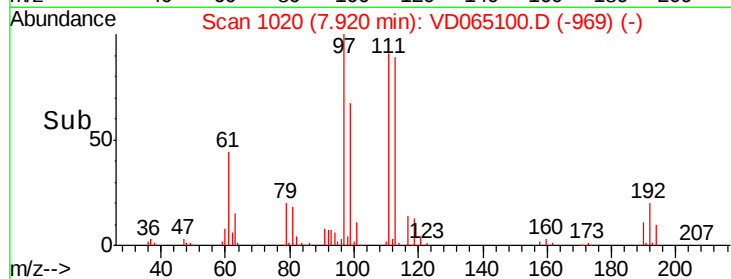
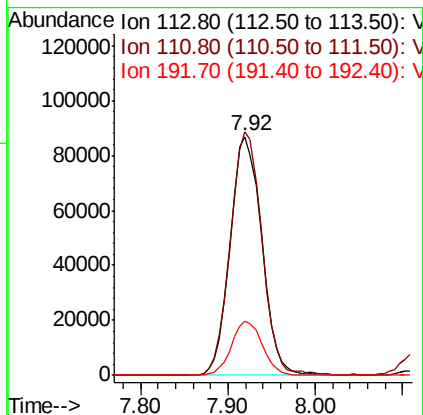
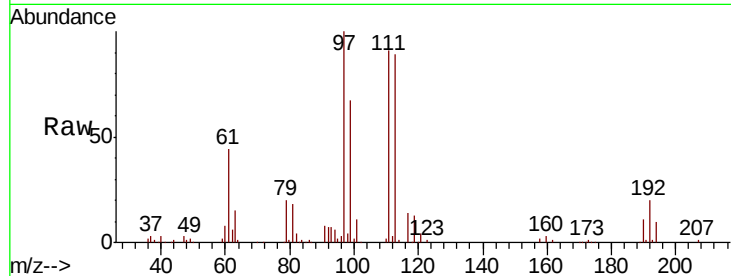




#35  
 Dibromofluoromethane  
 Concen: 61.580 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

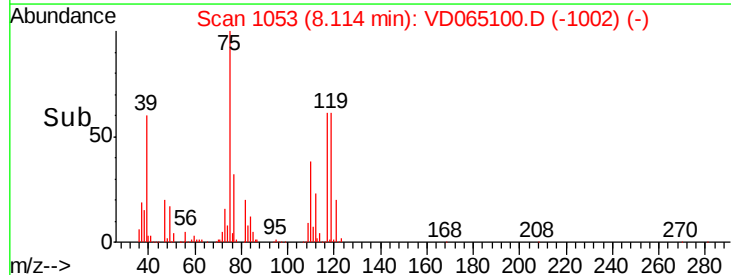
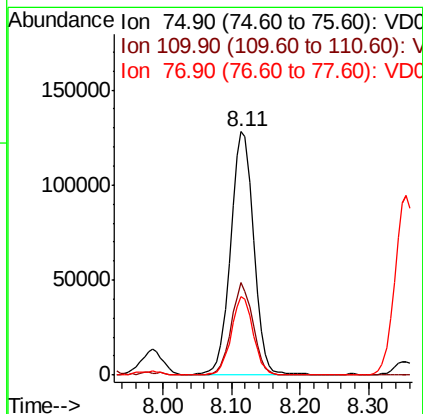
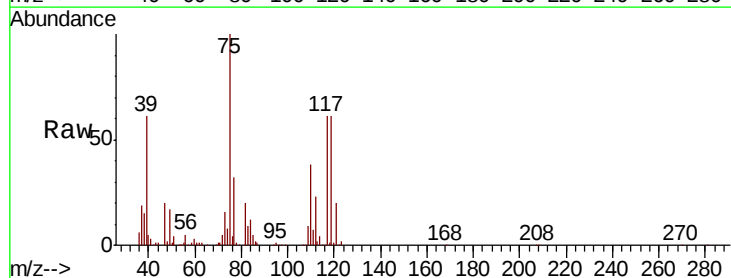
Instrument :  
 MSVOA\_D  
 ClientSampleId :

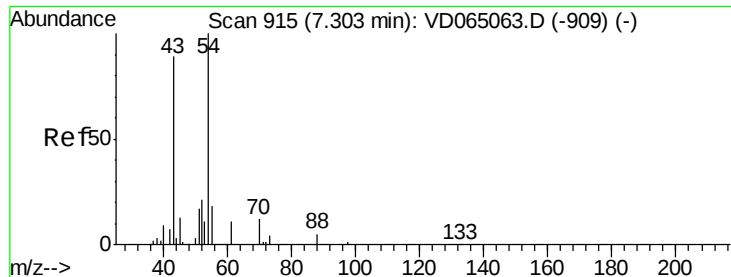
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.3 | 83.1  | 124.7 |
| 192     | 21.9  | 18.1  | 27.1  |



#36  
 1,1-Dichloropropene  
 Concen: 51.817 ug/l  
 RT: 8.11 min Scan# 1053  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.6  | 18.1  | 54.3  |
| 77      | 30.2  | 24.7  | 37.1  |

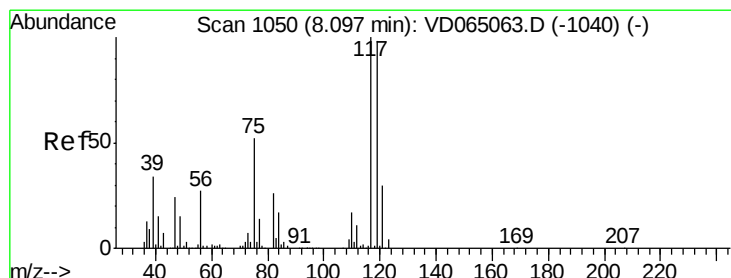
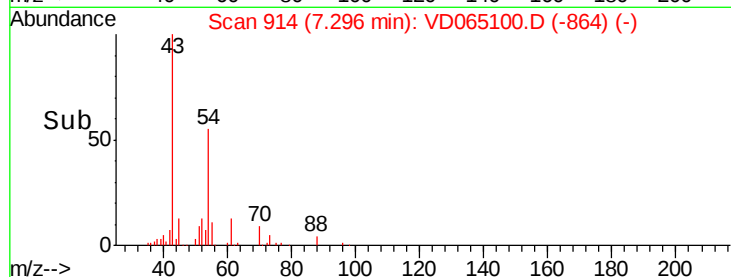
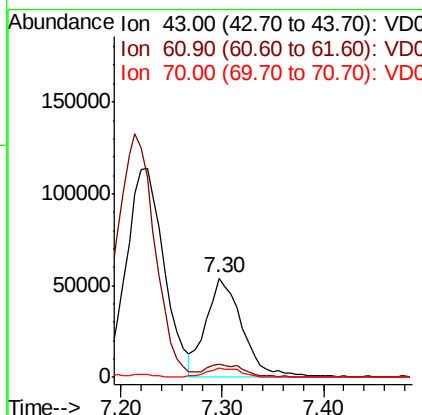
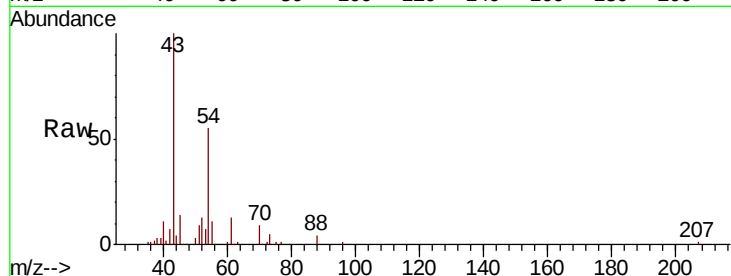




#37  
Ethyl Acetate  
Concen: 56.102 ug/l  
RT: 7.30 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

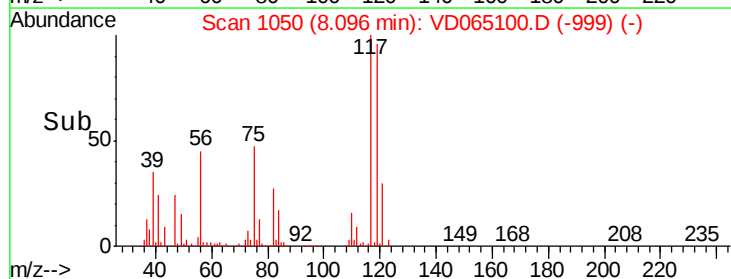
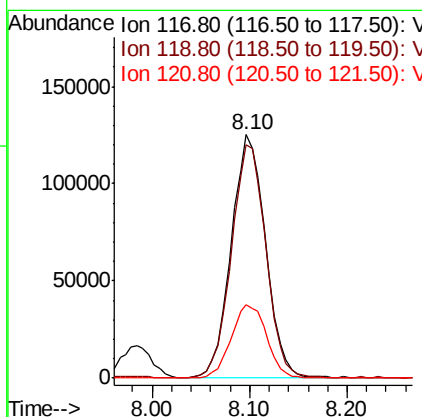
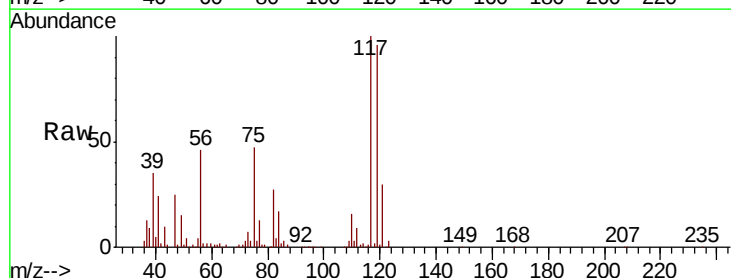
Instrument :  
MSVOA\_D  
ClientSampleId :

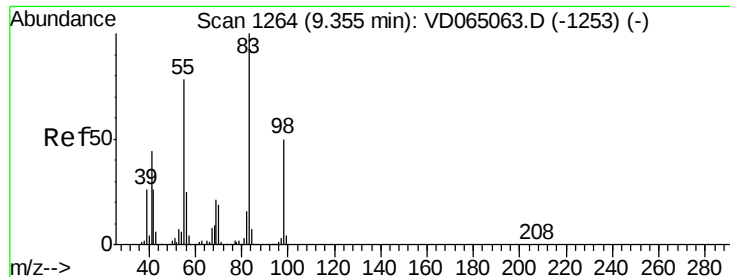
Tot Ion: 43 Resp: 132571  
Ion Ratio Lower Upper  
43 100  
61 13.9 11.0 16.4  
70 9.1 8.2 12.2



#38  
Carbon Tetrachloride  
Concen: 51.515 ug/l  
RT: 8.10 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 117 Resp: 304326  
Ion Ratio Lower Upper  
117 100  
119 95.7 78.5 117.7  
121 30.0 23.8 35.6

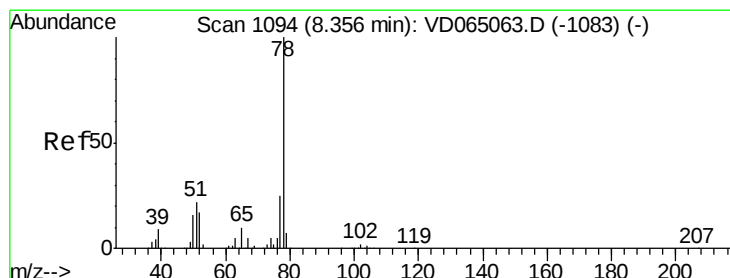
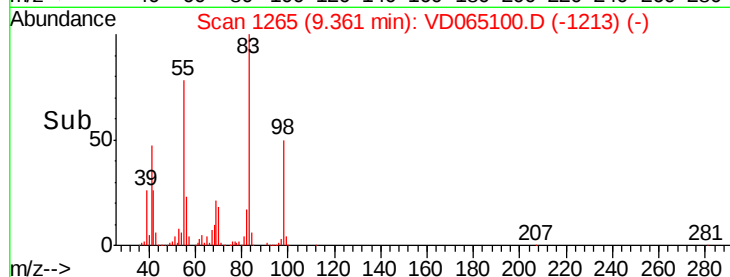
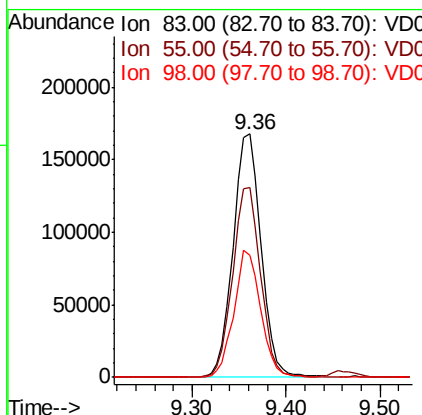
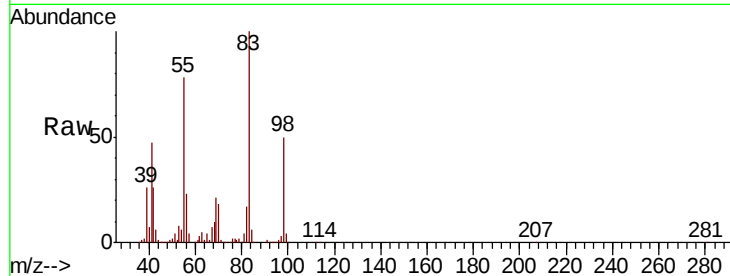




#39  
Methvlcvclohexane  
Concen: 48.714 ug/l  
RT: 9.36 min Scan# 1265  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

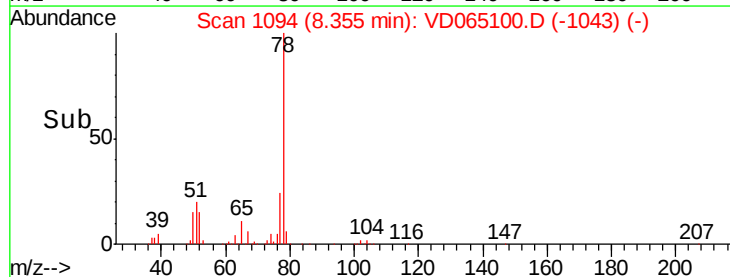
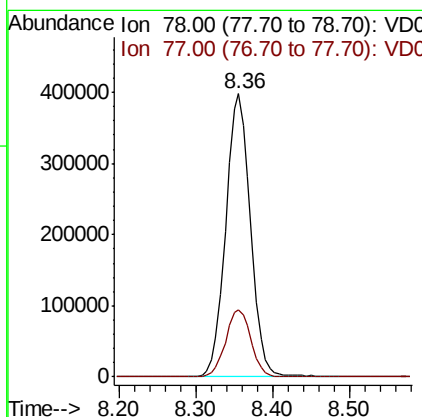
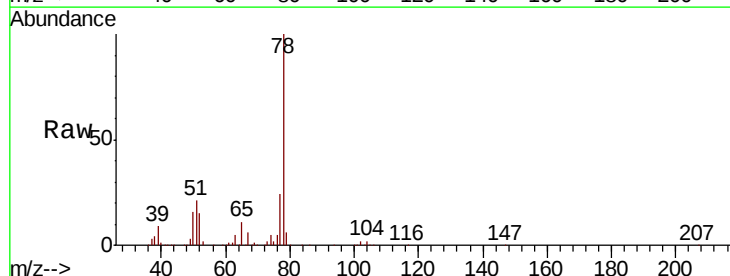
Instrument :  
MSVOA\_D  
ClientSampleId :

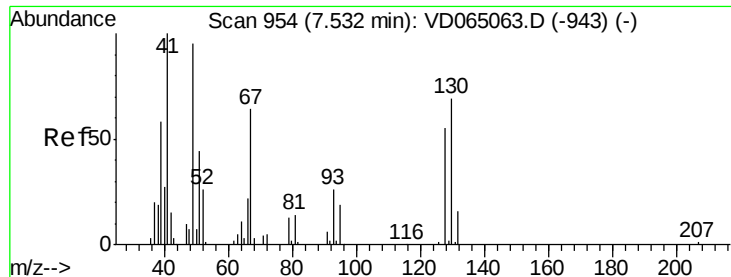
Tot Ion: 83 Resp: 347793  
Ion Ratio Lower Upper  
83 100  
55 78.0 62.0 93.0  
98 50.0 39.9 59.9



#40  
Benzene  
Concen: 55.697 ug/l  
RT: 8.36 min Scan# 1094  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 78 Resp: 889633  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.6 29.4





#41

Methacrylonitrile

Concen: 46.537 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 41 Resp: 60583

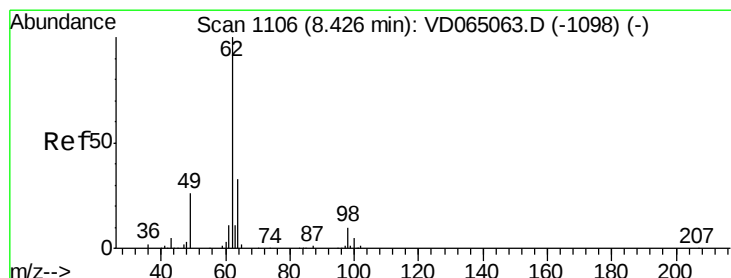
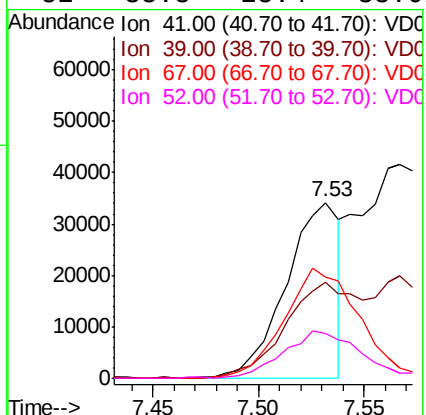
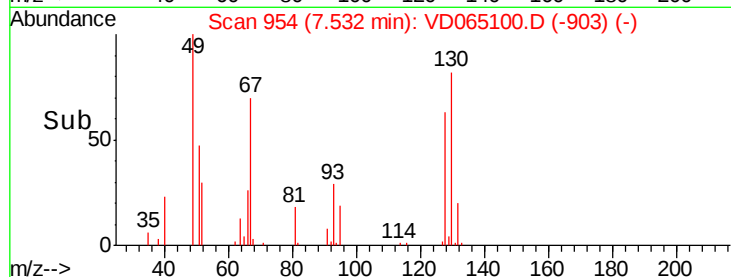
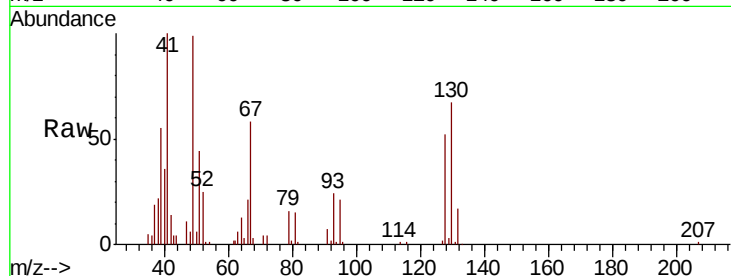
Ion Ratio Lower Upper

41 100

39 73.9 55.4 83.0

67 87.2 59.0 88.6

52 38.8 25.4 38.0#



#42

1,2-Dichloroethane

Concen: 56.679 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD065100.D

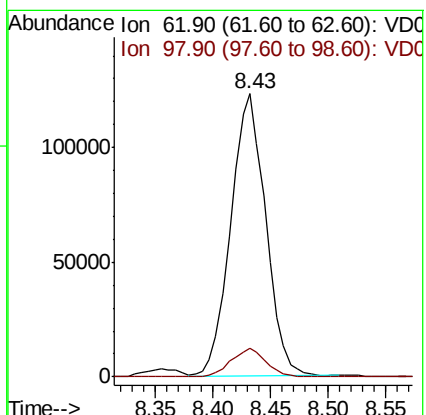
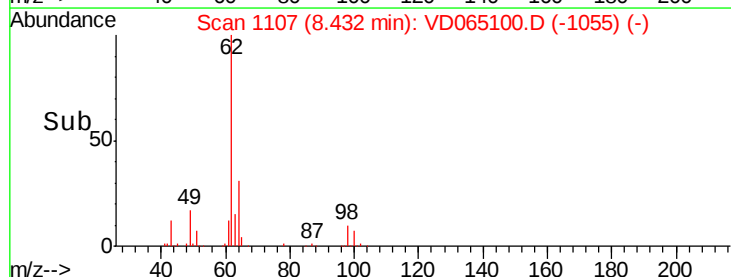
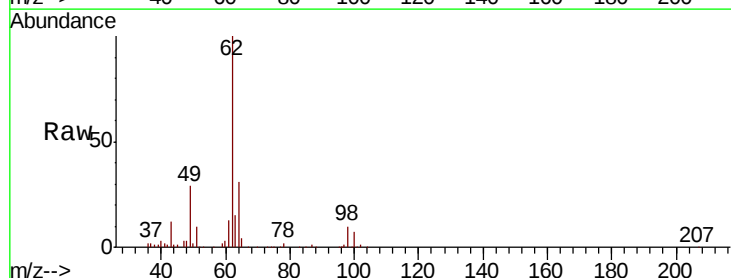
Acq: 06 Feb 2020 21:38

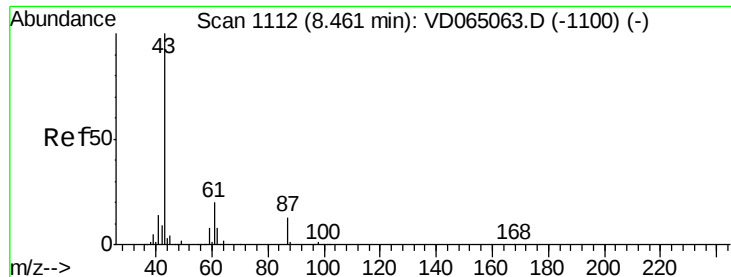
Tgt Ion: 62 Resp: 257956

Ion Ratio Lower Upper

62 100

98 10.0 0.0 18.6



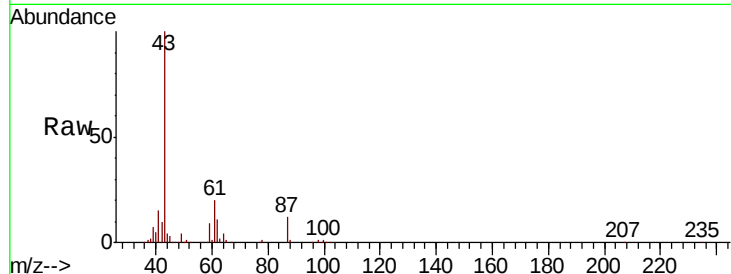


#43

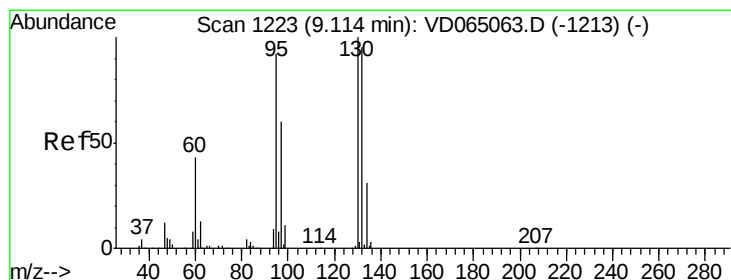
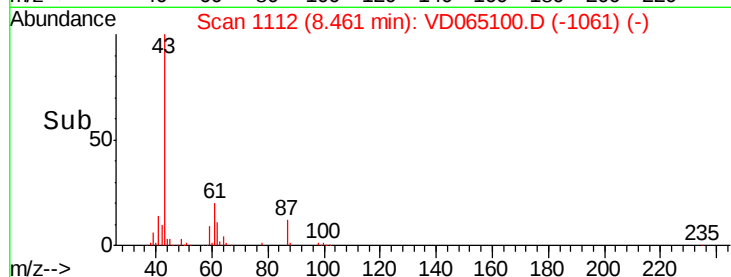
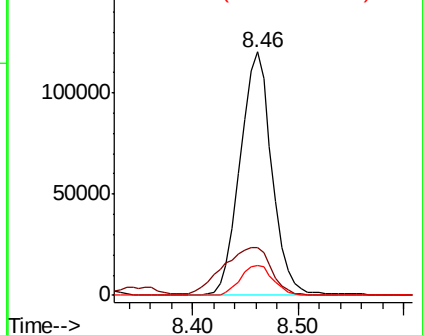
Isopropyl Acetate  
 Concen: 55.433 ug/l  
 RT: 8.46 min Scan# 1112  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion: 43 Resp: 250572  
 Ion Ratio Lower Upper  
 43 100  
 61 30.0 24.0 36.0  
 87 12.8 10.2 15.4



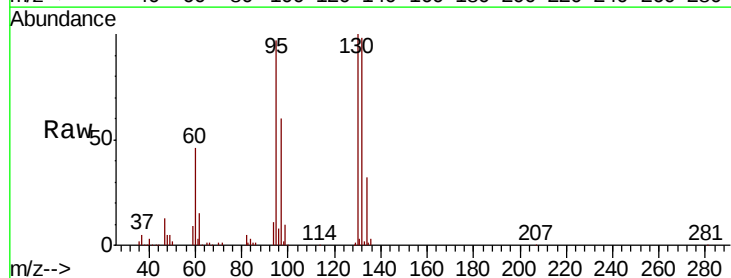
Abundance Ion 43.00 (42.70 to 43.70): VDC  
 Ion 61.00 (60.70 to 61.70): VDC  
 Ion 87.00 (86.70 to 87.70): VDC



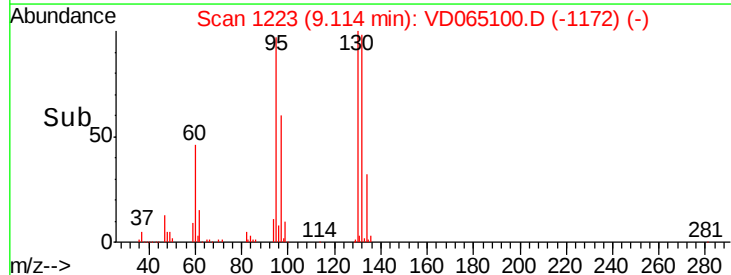
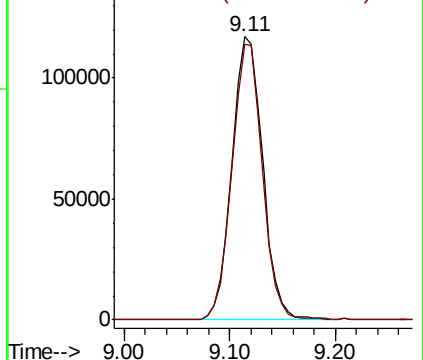
#44

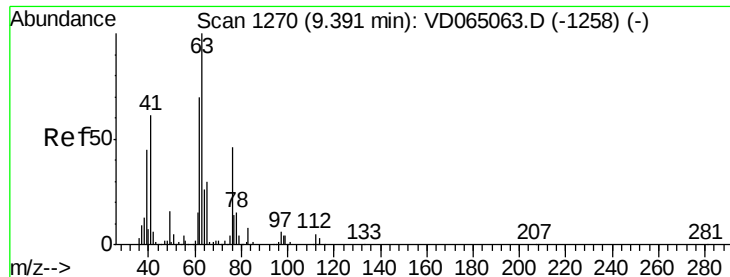
Trichloroethene  
 Concen: 51.345 ug/l  
 RT: 9.11 min Scan# 1223  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion: 130 Resp: 235402  
 Ion Ratio Lower Upper  
 130 100  
 95 97.3 0.0 185.0



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





#45

1,2-Dichloropropane

Concen: 57.943 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

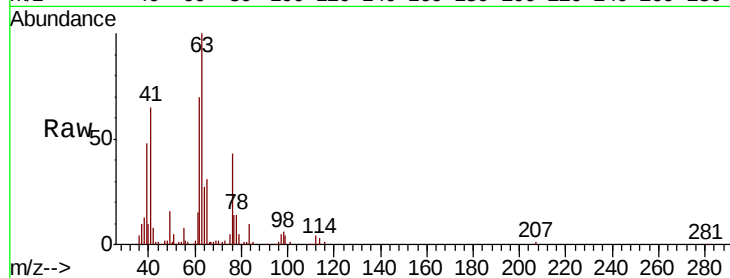
ClientSampleId :

Tot Ion: 63 Resp: 221899

Ion Ratio Lower Upper

63 100

65 30.7 23.9 35.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

9.39

120000

100000

80000

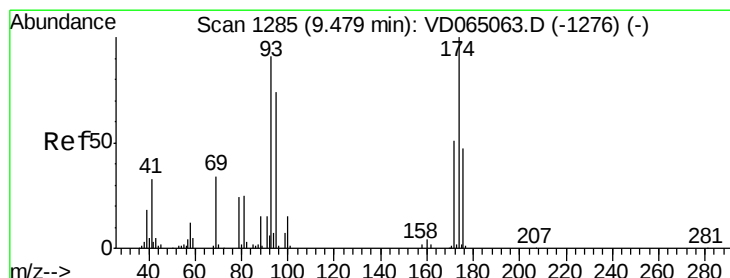
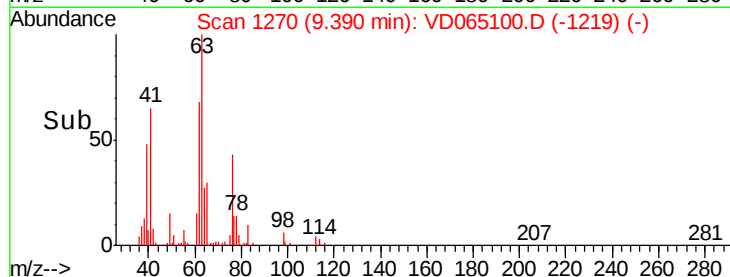
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 58.088 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

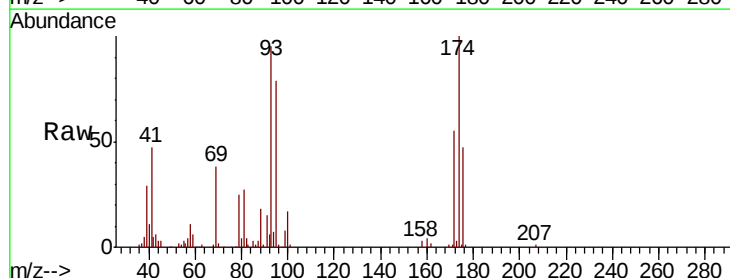
Tgt Ion: 93 Resp: 116896

Ion Ratio Lower Upper

93 100

95 84.7 66.5 99.7

174 107.8 89.8 134.8



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

80000

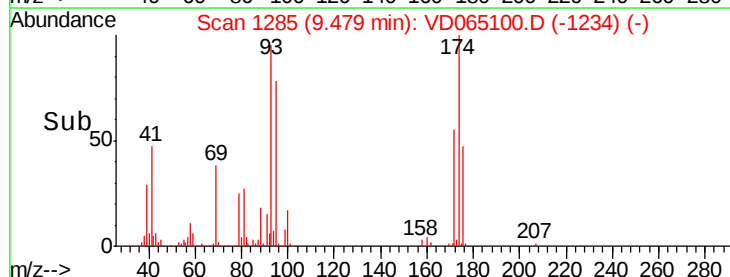
60000

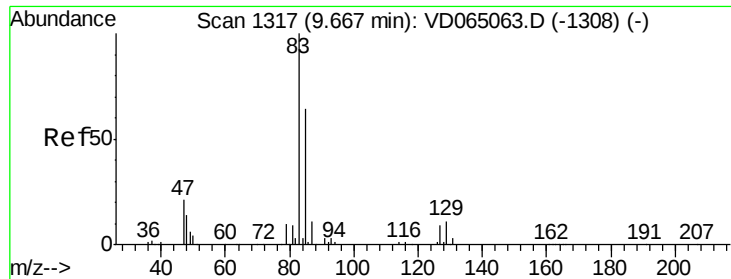
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 58.397 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :  
MSVOA\_D  
ClientSampleId :

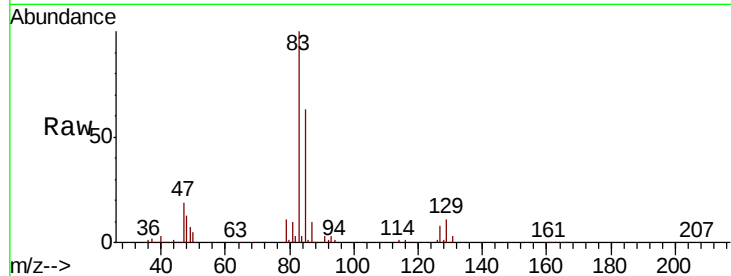
Tot Ion: 83 Resp: 309642

Ion Ratio Lower Upper

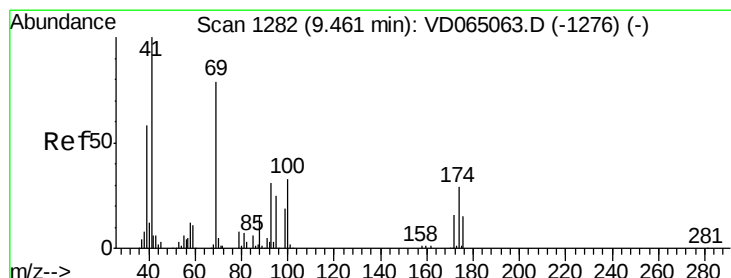
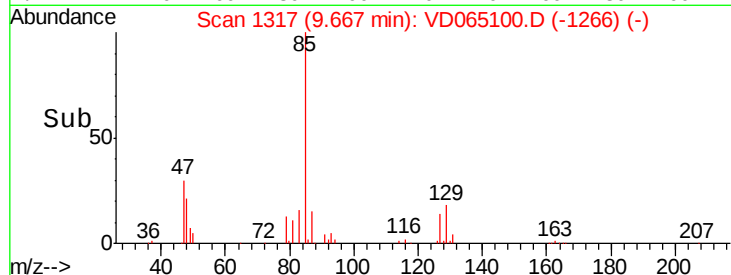
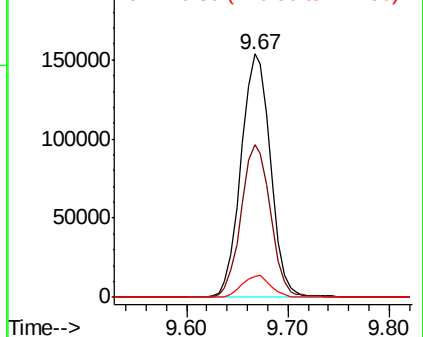
83 100

85 62.9 51.0 76.6

127 8.5 7.3 10.9



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: 54.415 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

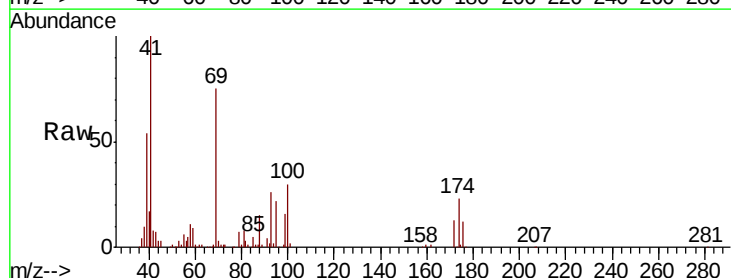
Tgt Ion: 41 Resp: 118360

Ion Ratio Lower Upper

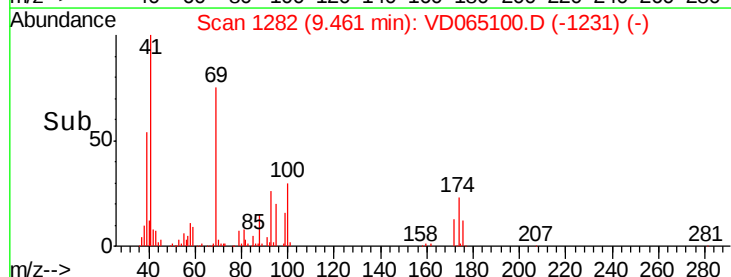
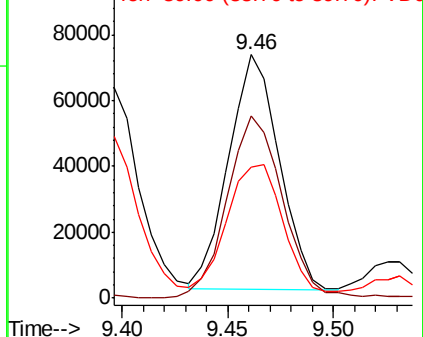
41 100

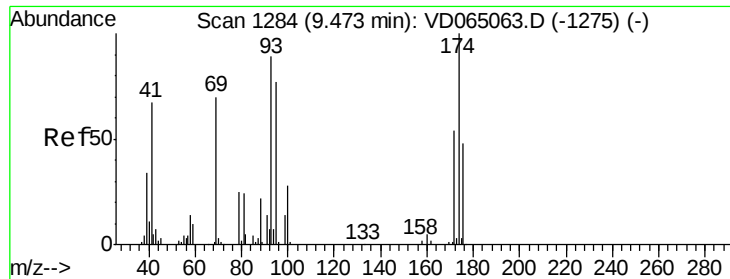
69 86.1 67.5 101.3

39 59.1 47.0 70.4



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

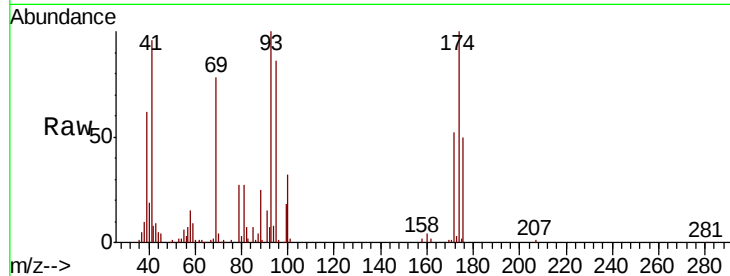




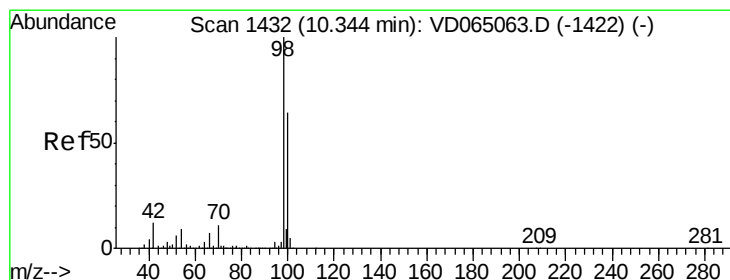
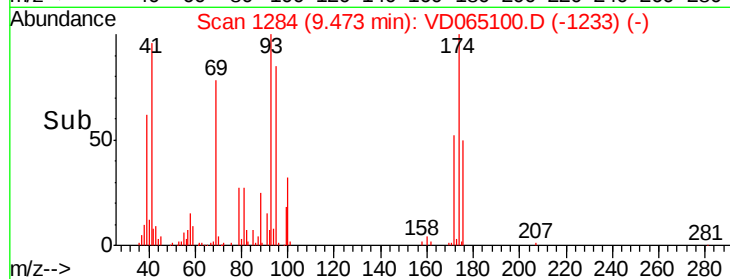
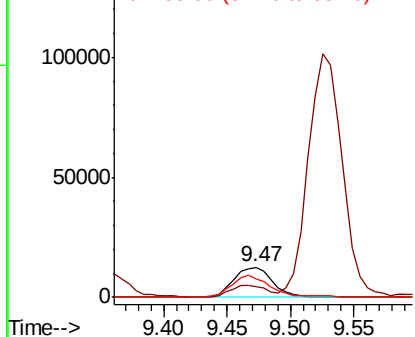
#49  
1,4-Dioxane  
Concen: 1117.513 ug/l  
RT: 9.47 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 88 Resp: 26636  
Ion Ratio Lower Upper  
88 100  
43 36.3 27.7 41.5  
58 74.4 55.5 83.3

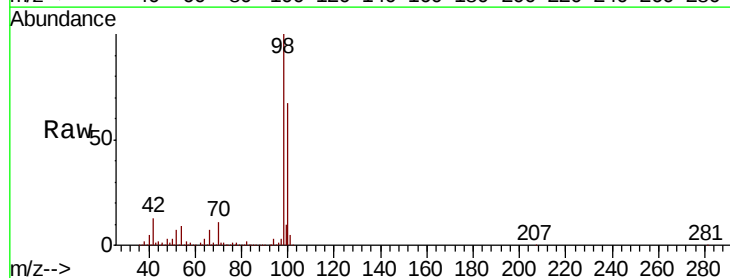


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

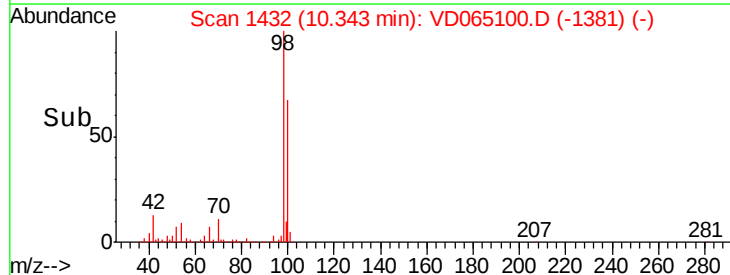
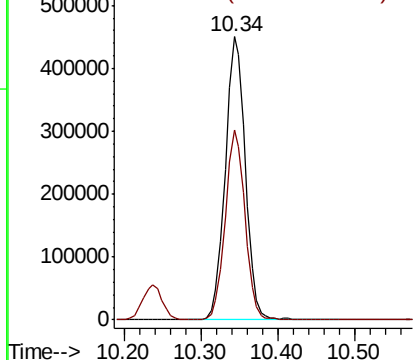


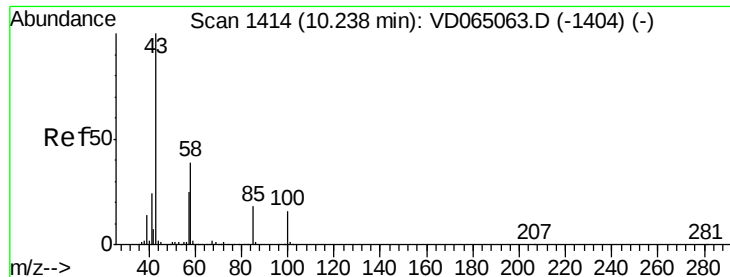
#50  
Toluene-d8  
Concen: 59.074 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 98 Resp: 816059  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 290.633 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

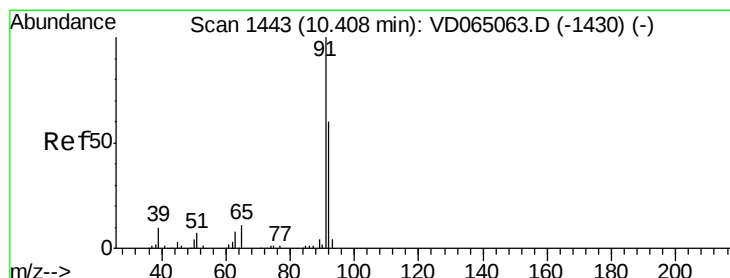
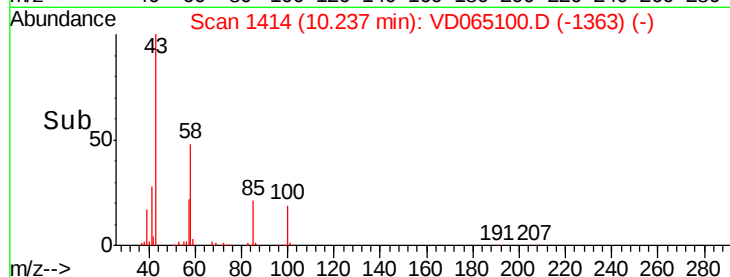
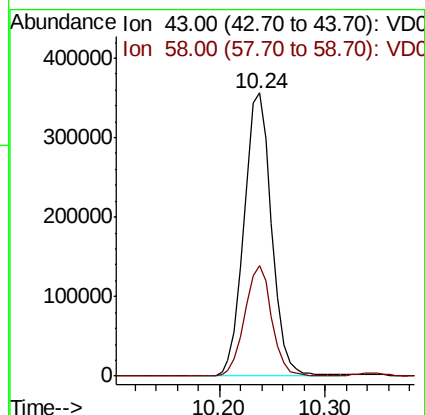
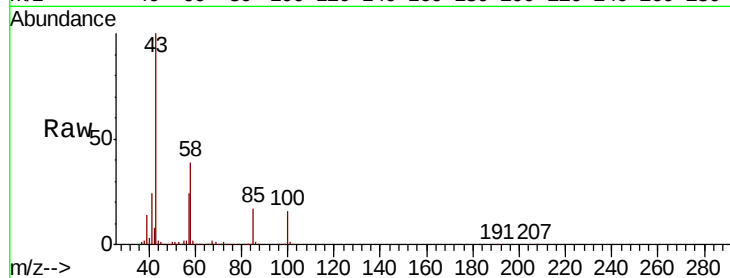
ClientSampleId :

Tot Ion: 43 Resp: 646644

Ion Ratio Lower Upper

43 100

58 38.2 30.2 45.2



#52

Toluene

Concen: 55.099 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065100.D

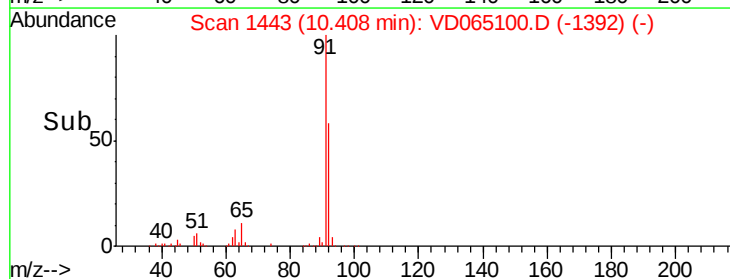
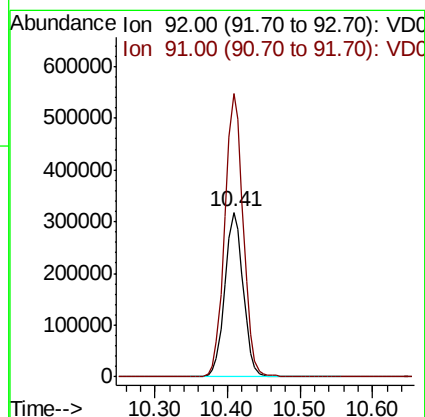
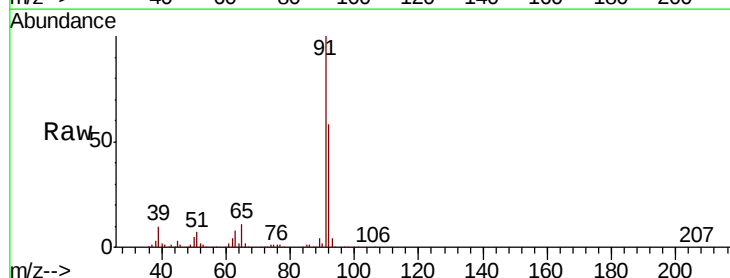
Acq: 06 Feb 2020 21:38

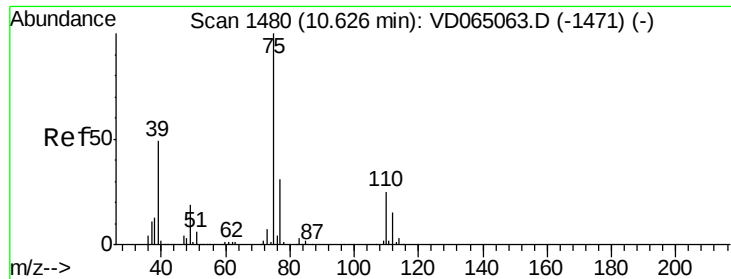
Tgt Ion: 92 Resp: 561703

Ion Ratio Lower Upper

92 100

91 172.5 135.3 202.9





#53

t-1,3-Dichloropropene

Concen: 56.409 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

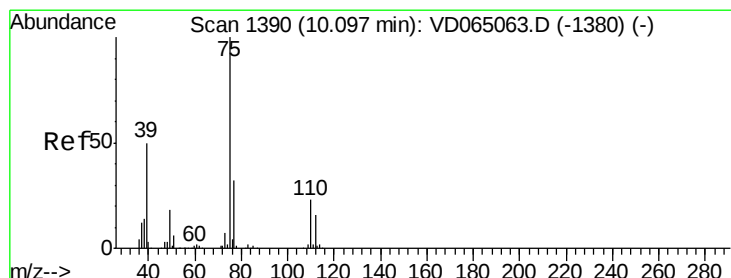
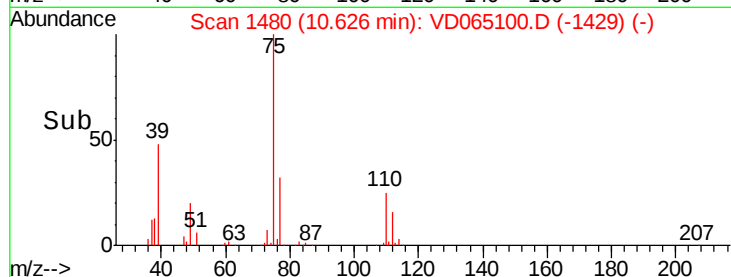
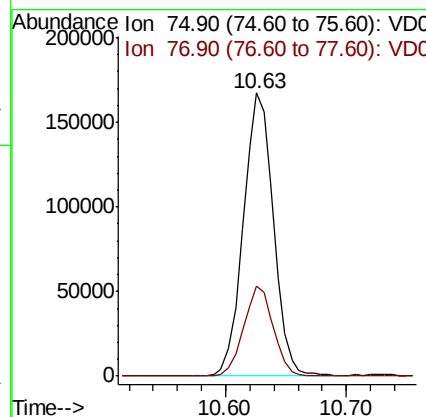
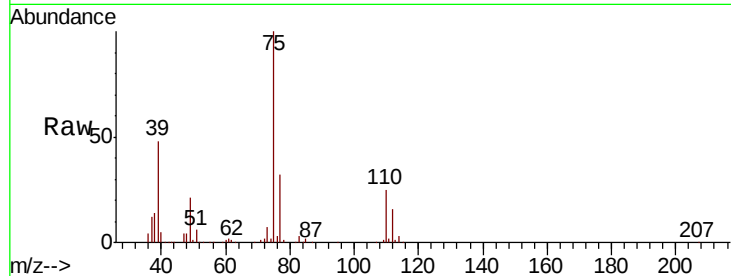
ClientSampleId :

Tot Ion: 75 Resp: 291215

Ion Ratio Lower Upper

75 100

77 32.1 24.9 37.3



#54

cis-1,3-Dichloropropene

Concen: 55.857 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

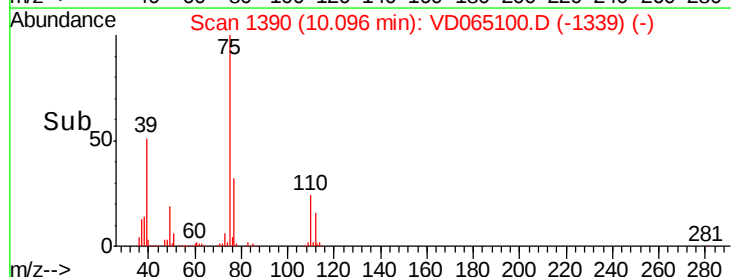
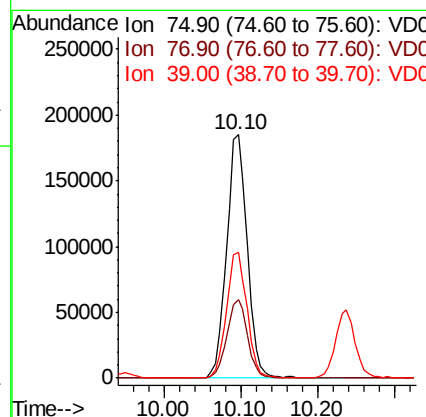
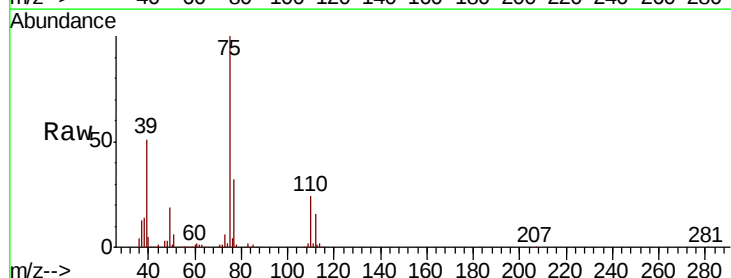
Tgt Ion: 75 Resp: 344885

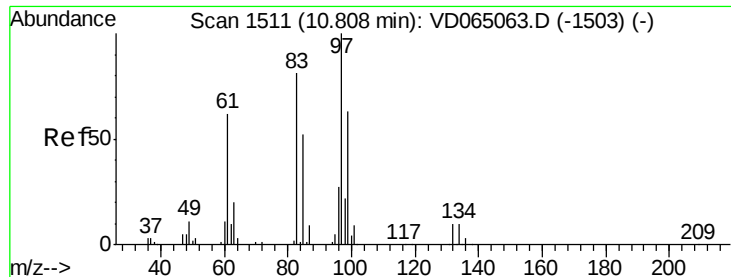
Ion Ratio Lower Upper

75 100

77 32.2 25.3 37.9

39 51.3 40.3 60.5

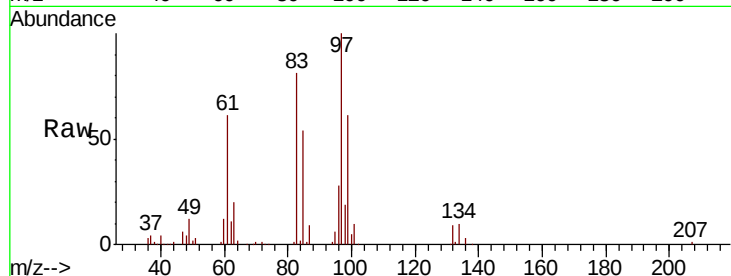




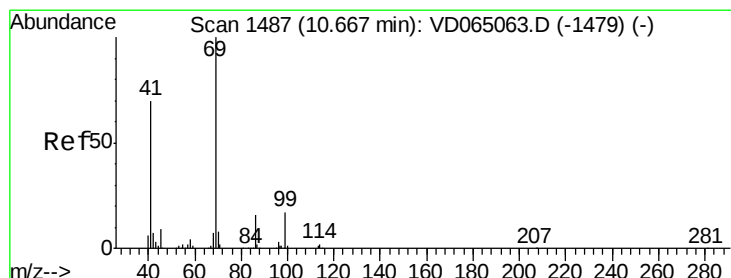
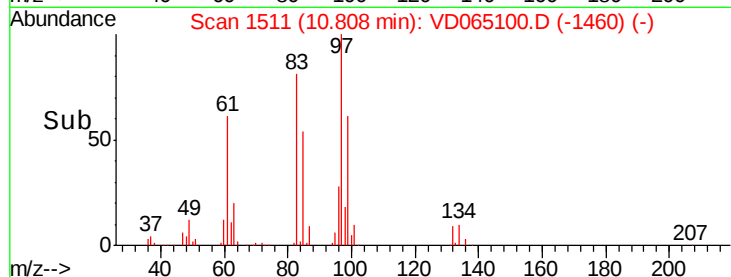
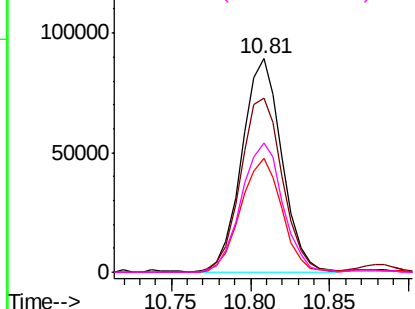
#55  
 1,1,2-Trichloroethane  
 Concen: 56.468 ug/l  
 RT: 10.81 min Scan# 1511  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 155865 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 81.4  | 64.8  | 97.2   |
| 85       | 53.6  | 41.2  | 61.8   |
| 99       | 60.9  | 50.3  | 75.5   |

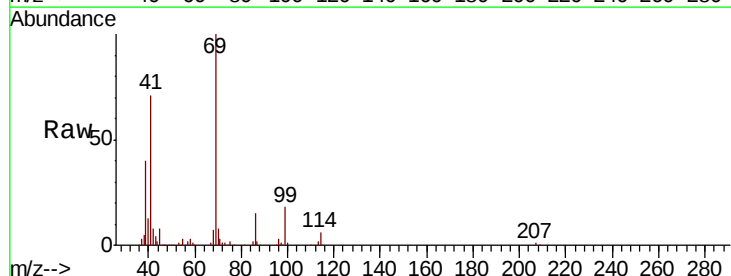


Abundance Ion 96.90 (96.60 to 97.60): VDC  
 Ion 82.90 (82.60 to 83.60): VDC  
 Ion 84.90 (84.60 to 85.60): VDC  
 Ion 98.90 (98.60 to 99.60): VDC

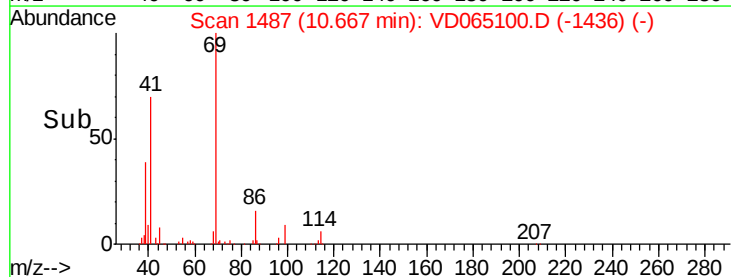
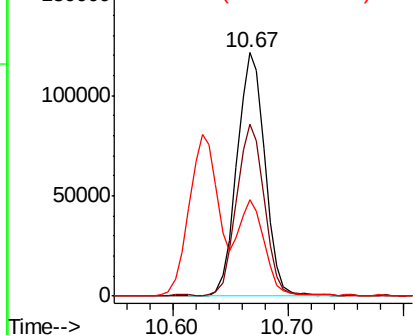


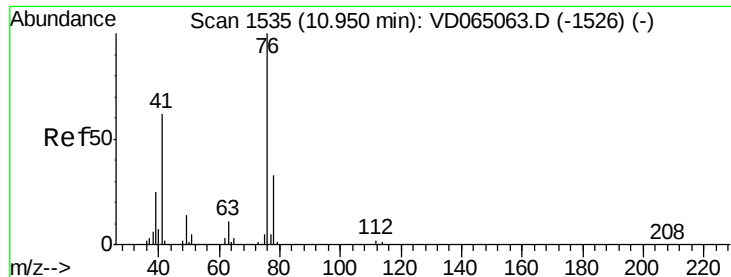
#56  
 Ethyl methacrylate  
 Concen: 58.107 ug/l  
 RT: 10.67 min Scan# 1487  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 202939 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 69.9  | 55.9  | 83.9   |
| 39       | 36.9  | 29.4  | 44.0   |



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: 57.798 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

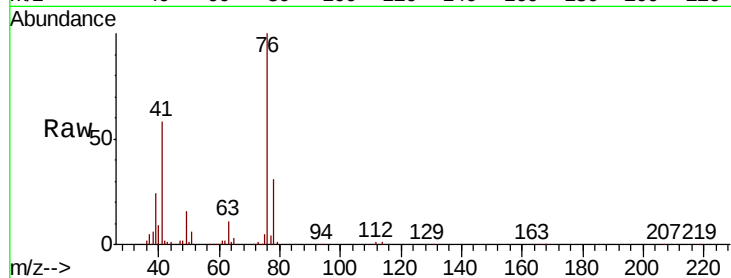
ClientSampleId :

Tot Ion: 76 Resp: 280536

Ion Ratio Lower Upper

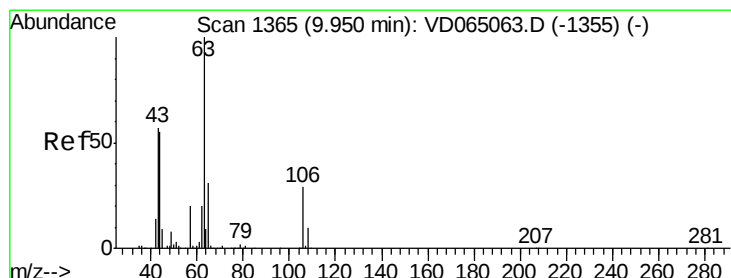
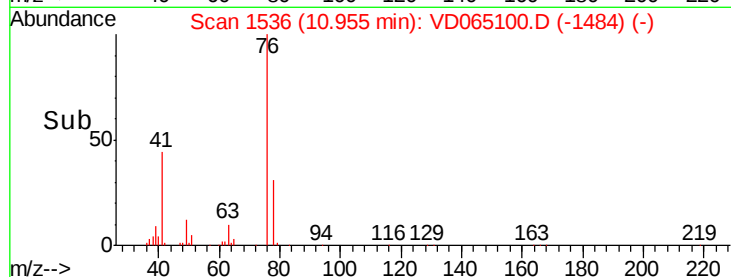
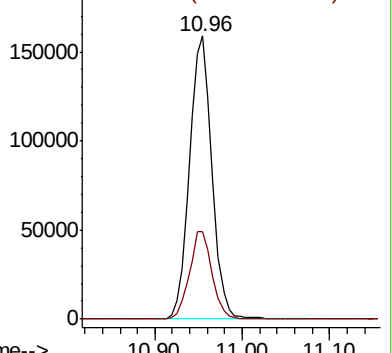
76 100

78 31.6 25.8 38.6



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: 252.614 ug/l

RT: 9.95 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VD065100.D

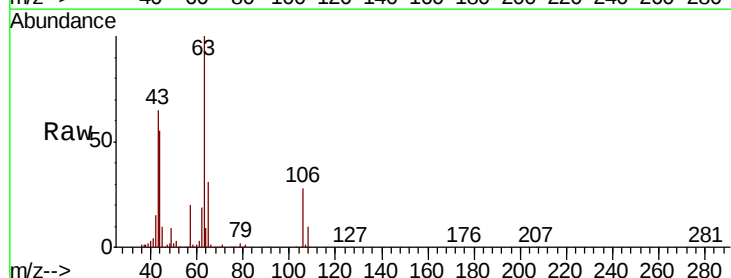
Acq: 06 Feb 2020 21:38

Tgt Ion: 63 Resp: 284830

Ion Ratio Lower Upper

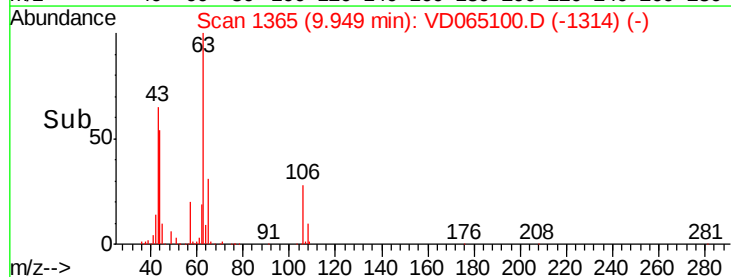
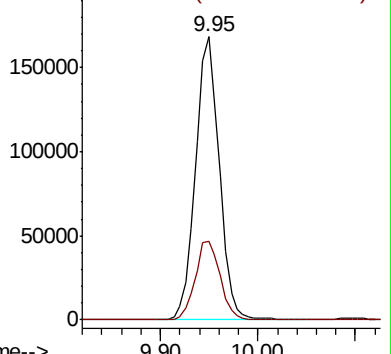
63 100

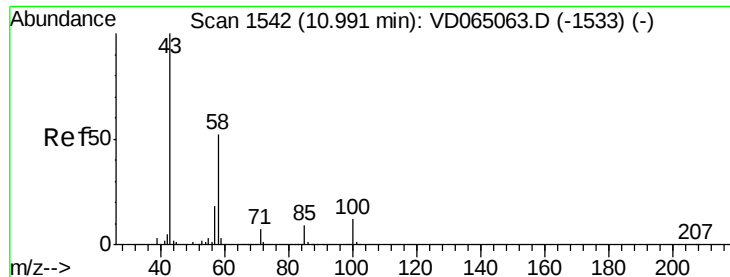
106 29.0 23.3 34.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

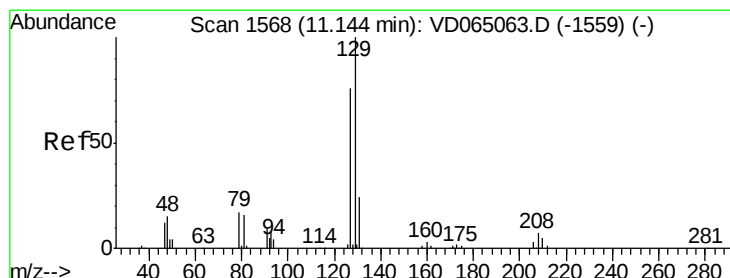
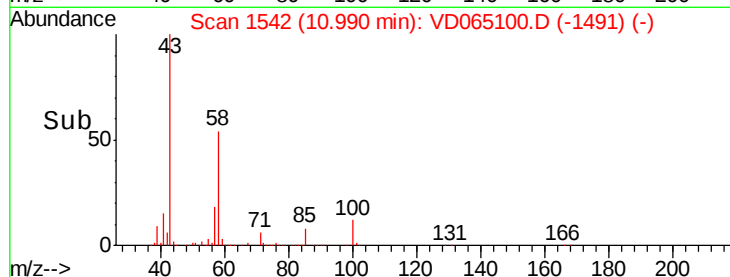
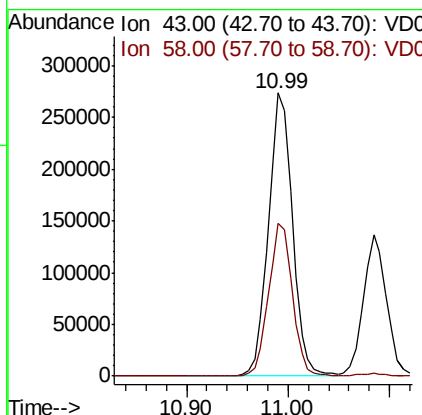
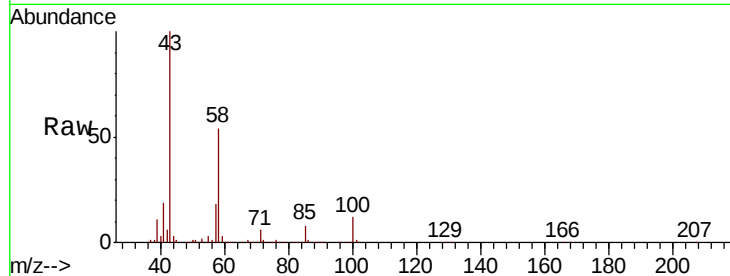




#59  
2-Hexanone  
Concen: 287.552 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

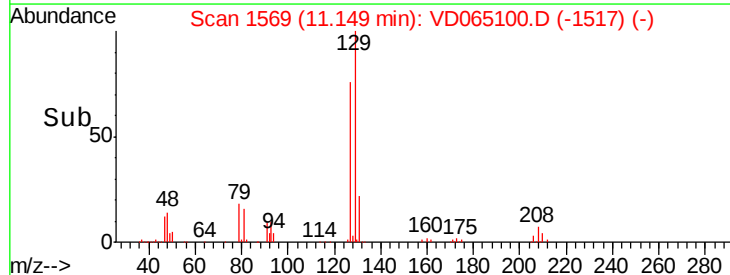
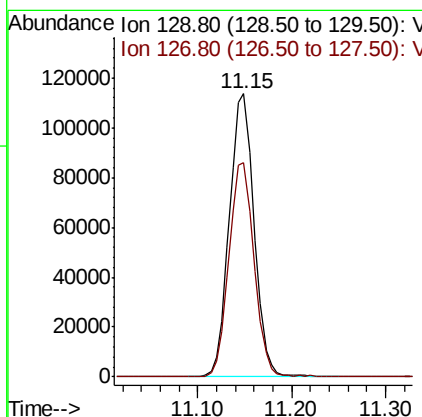
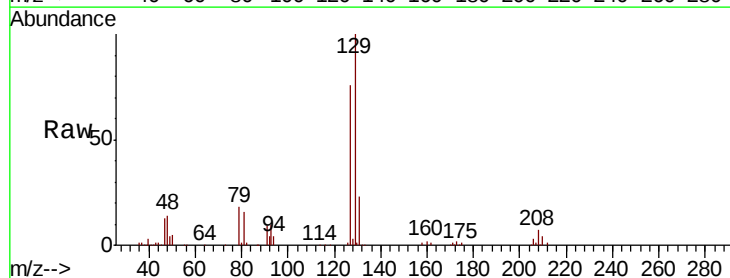
Instrument :  
MSVOA\_D  
ClientSampleId :

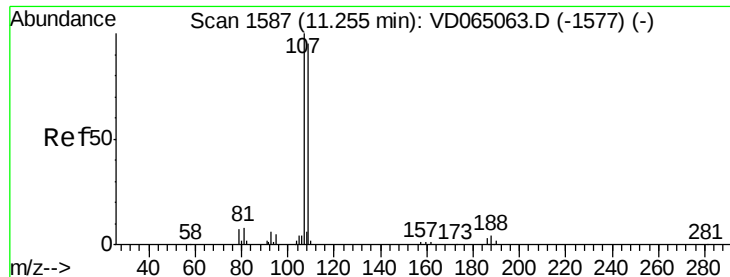
Tot Ion: 43 Resp: 453178  
Ion Ratio Lower Upper  
43 100  
58 53.5 26.2 78.6



#60  
Dibromochloromethane  
Concen: 58.111 ug/l  
RT: 11.15 min Scan# 1569  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 129 Resp: 207761  
Ion Ratio Lower Upper  
129 100  
127 77.2 38.3 114.9

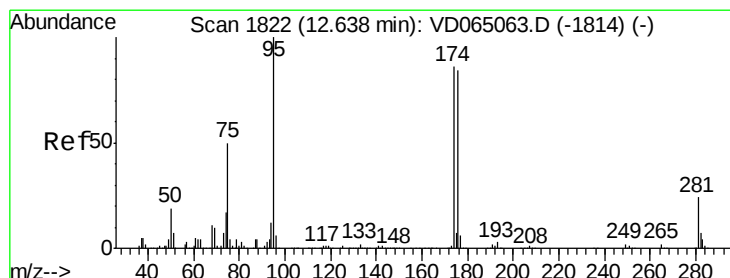
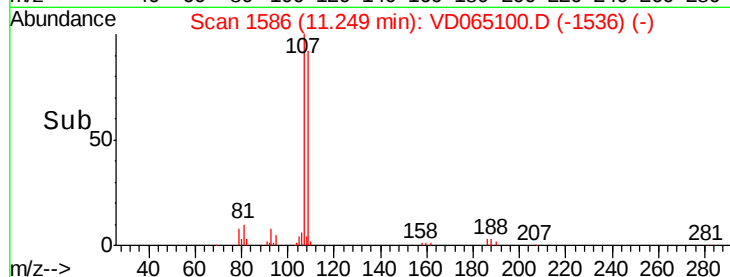
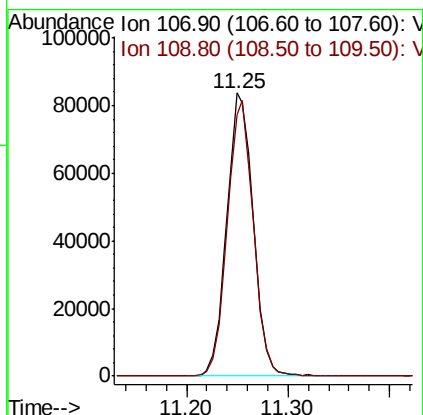
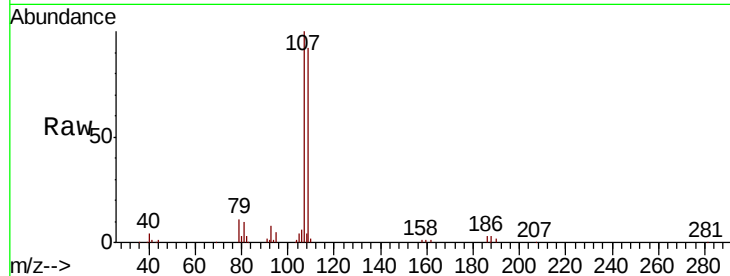




#61  
 1,2-Dibromoethane  
 Concen: 56.006 ug/l  
 RT: 11.25 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

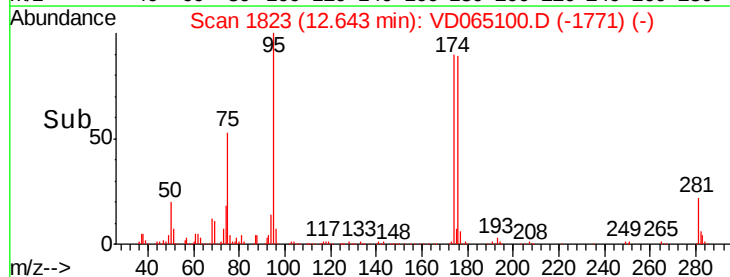
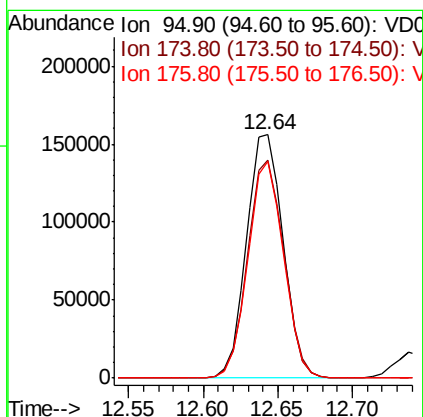
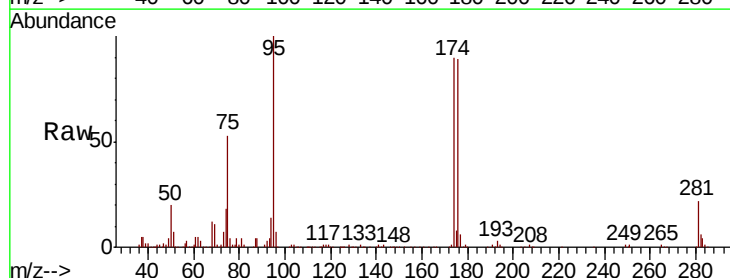
Instrument :  
 MSVOA\_D  
 ClientSampleId :

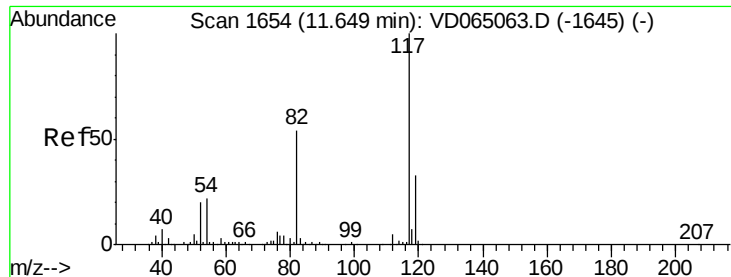
Tot Ion: 107 Resp: 151054  
 Ion Ratio Lower Upper  
 107 100  
 109 95.8 75.5 113.3



#62  
 4-Bromofluorobenzene  
 Concen: 60.192 ug/l  
 RT: 12.64 min Scan# 1823  
 Delta R.T. 0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion: 95 Resp: 263471  
 Ion Ratio Lower Upper  
 95 100  
 174 89.2 0.0 180.0  
 176 86.9 0.0 173.2

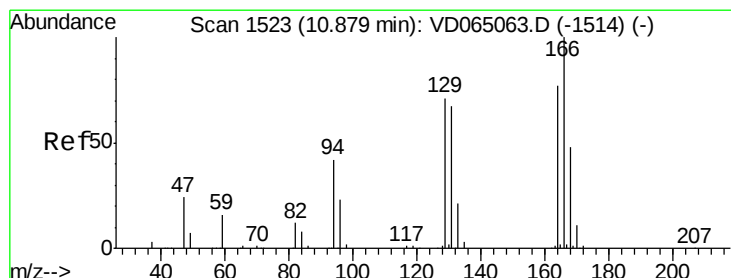
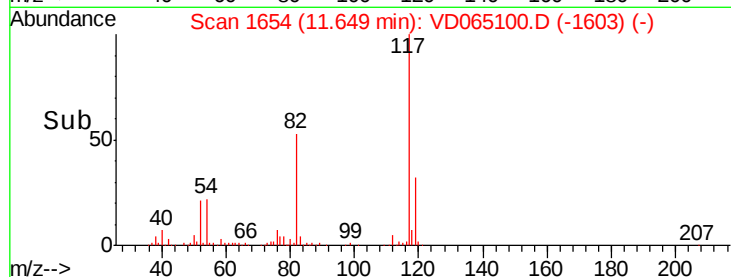
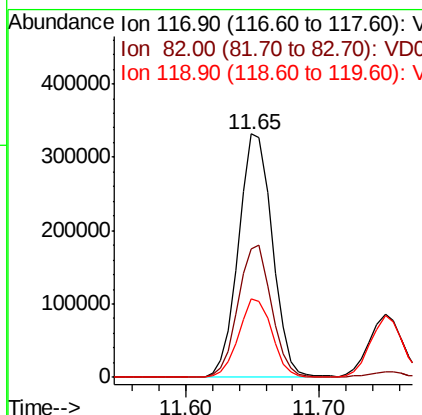
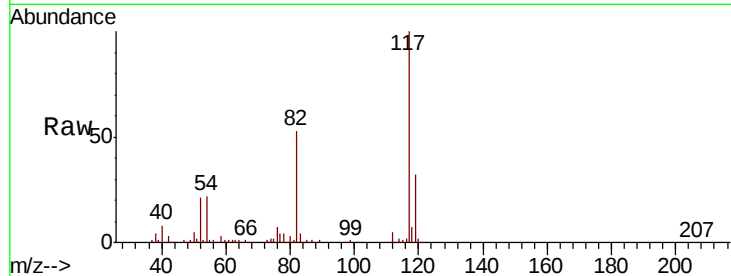




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

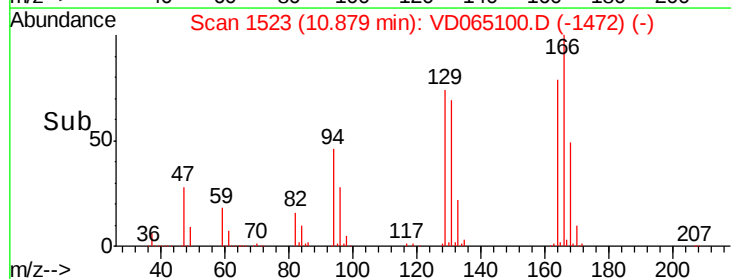
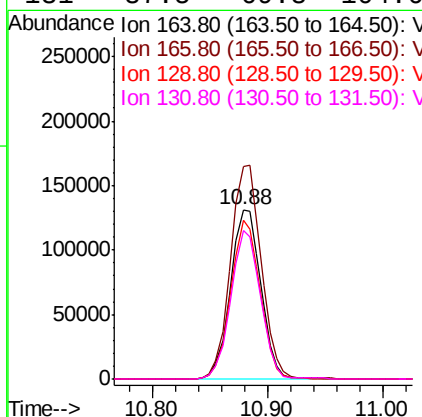
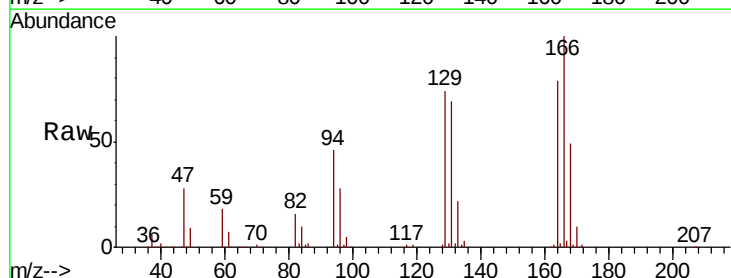
Instrument :  
MSVOA\_D  
ClientSampled :

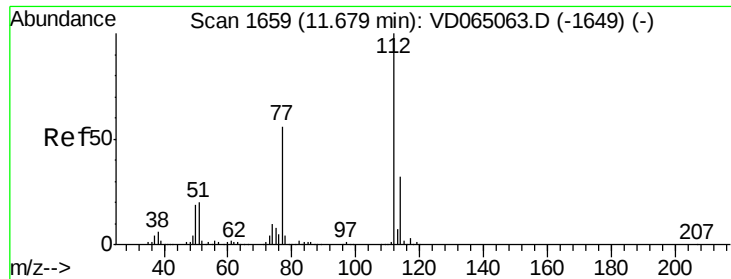
Tot Ion:117 Resp: 582840  
Ion Ratio Lower Upper  
117 100  
82 52.9 43.1 64.7  
119 32.1 26.0 39.0



#64  
Tetrachloroethene  
Concen: 56.897 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion:164 Resp: 238285  
Ion Ratio Lower Upper  
164 100  
166 126.0 103.5 155.3  
129 93.7 73.3 109.9  
131 87.5 69.8 104.6

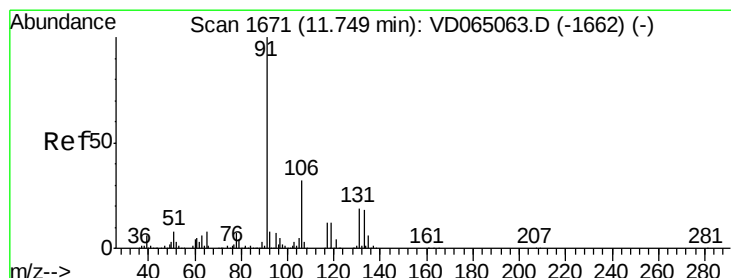
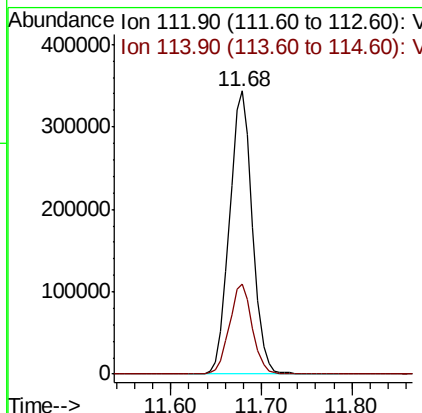
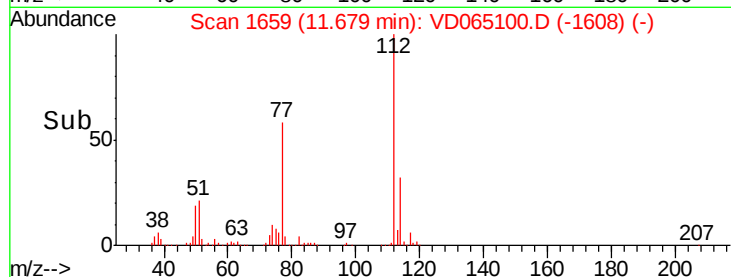
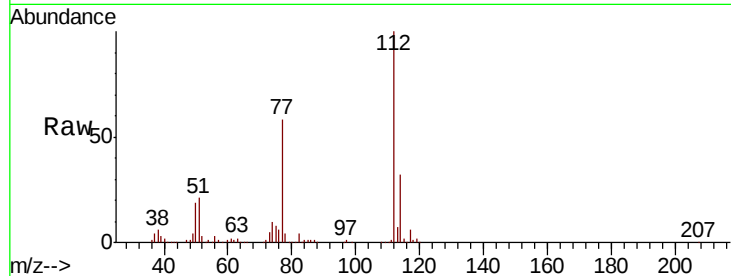




#65  
Chlorobenzene  
Concen: 53.399 ug/l  
RT: 11.68 min Scan# 1659  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

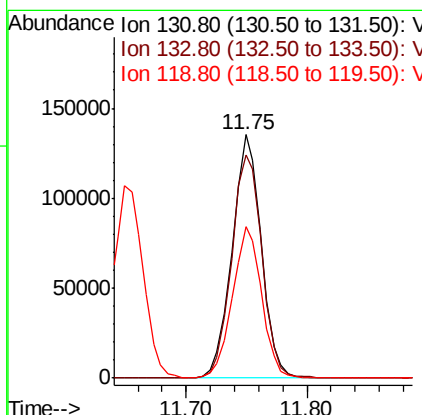
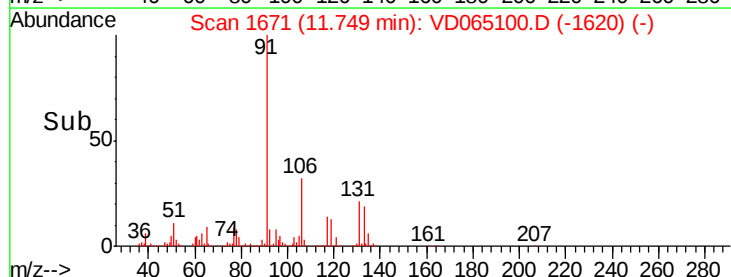
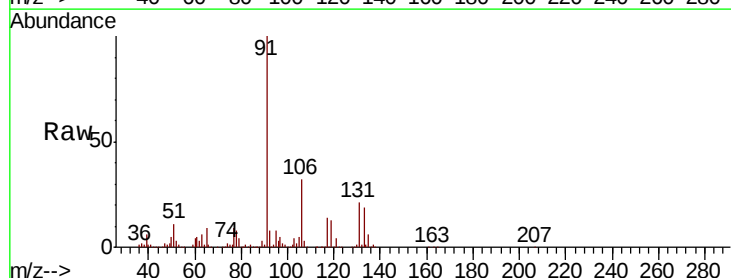
Instrument :  
MSVOA\_D  
ClientSampleId :

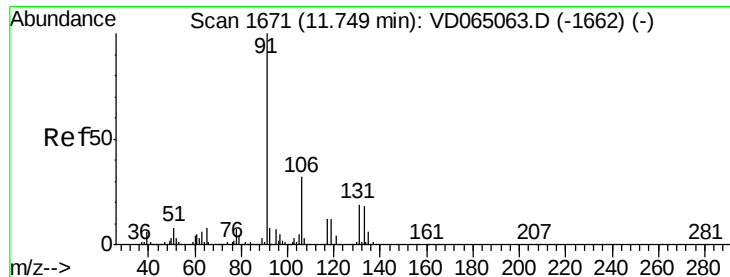
Tot Ion:112 Resp: 601967  
Ion Ratio Lower Upper  
112 100  
114 32.1 25.4 38.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 54.566 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion:131 Resp: 227031  
Ion Ratio Lower Upper  
131 100  
133 95.9 47.7 143.1  
119 62.4 31.3 93.8

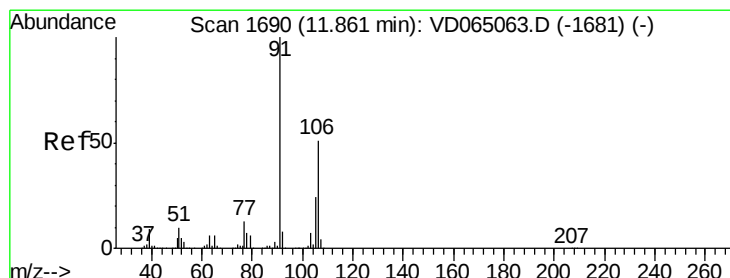
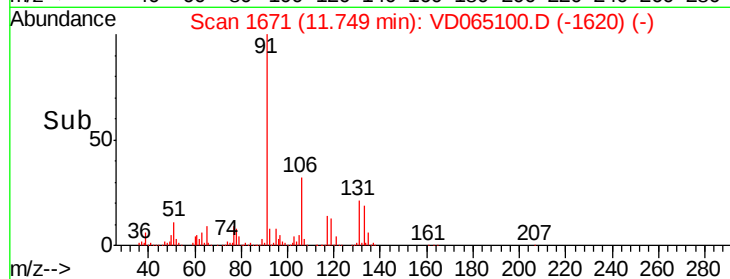
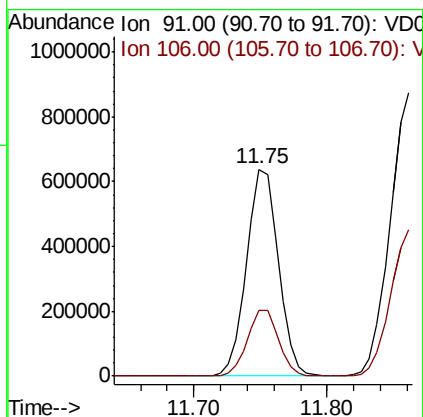
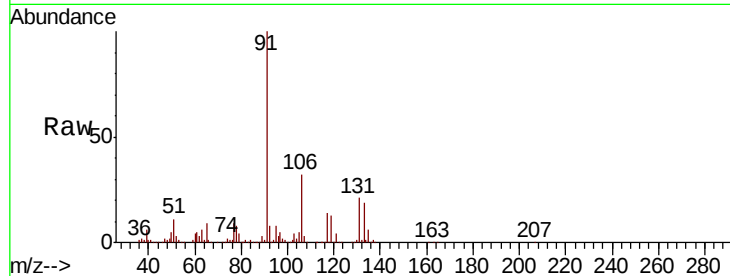




#67  
Ethyl Benzene  
Concen: 51.312 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

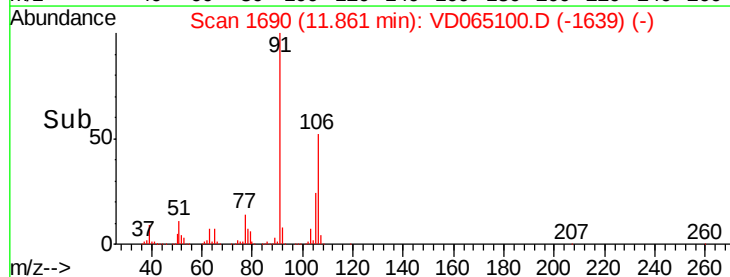
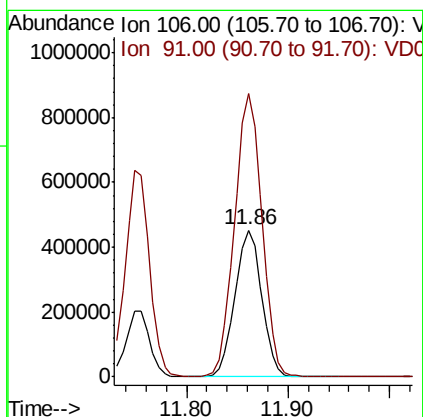
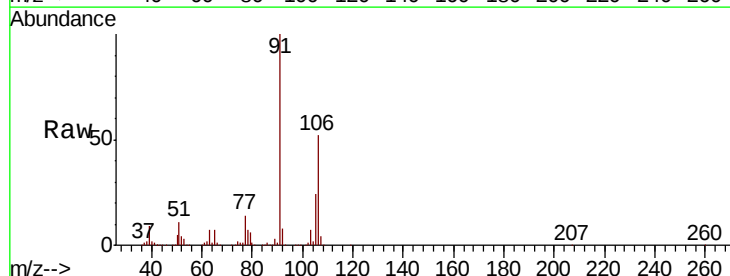
Instrument :  
MSVOA\_D  
ClientSampled :

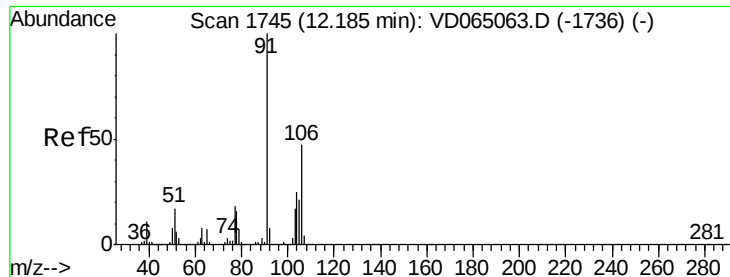
Tot Ion: 91 Resp: 1050919  
Ion Ratio Lower Upper  
91 100  
106 31.7 25.4 38.2



#68  
m/p-Xylenes  
Concen: 106.776 ug/l  
RT: 11.86 min Scan# 1690  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 106 Resp: 834667  
Ion Ratio Lower Upper  
106 100  
91 196.4 158.9 238.3

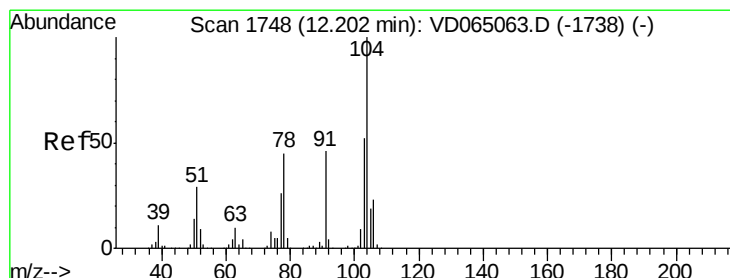
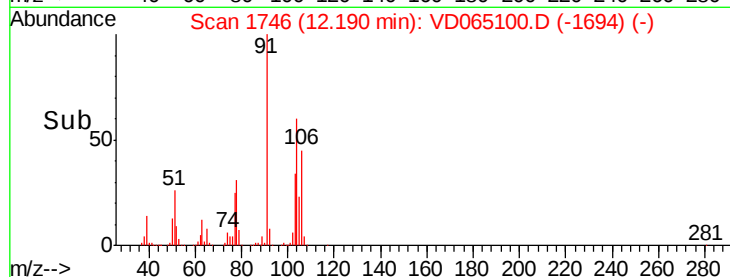
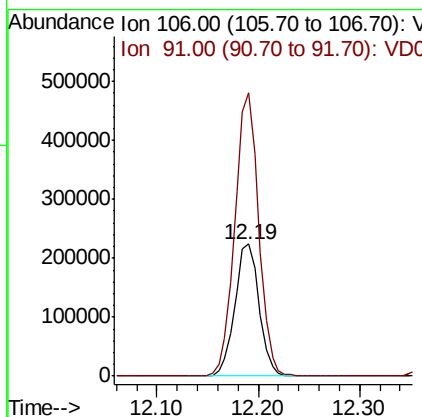
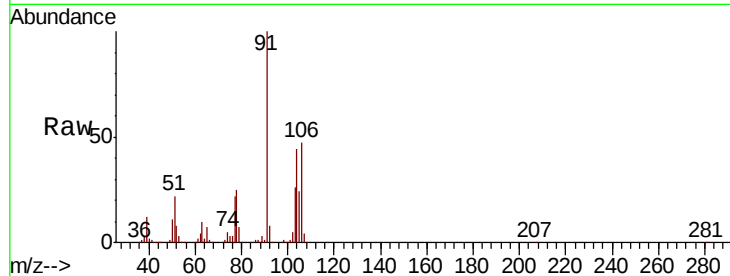




#69  
o-Xylene  
Concen: 52.756 ug/l  
RT: 12.19 min Scan# 1746  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

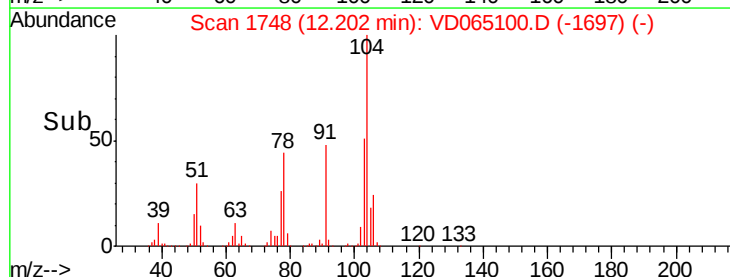
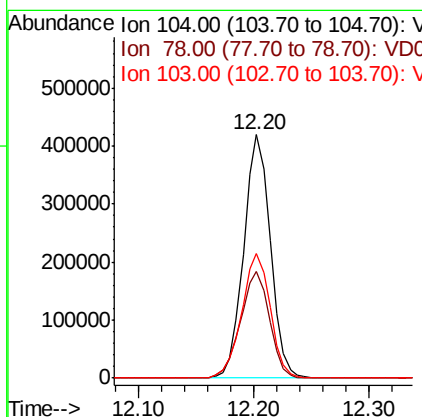
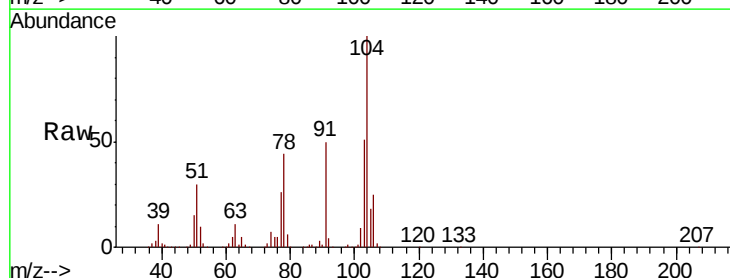
Instrument :  
MSVOA\_D  
ClientSampled :

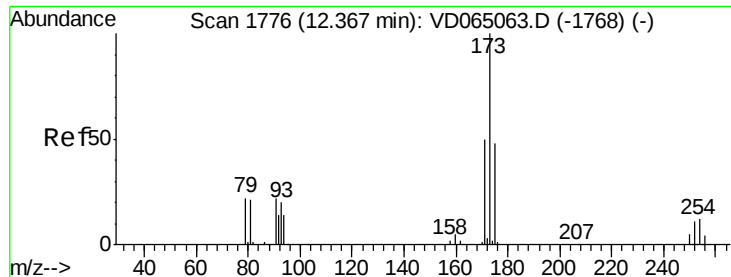
Tot Ion:106 Resp: 371371  
Ion Ratio Lower Upper  
106 100  
91 211.3 104.7 313.9



#70  
Styrene  
Concen: 55.016 ug/l  
RT: 12.20 min Scan# 1748  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion:104 Resp: 673096  
Ion Ratio Lower Upper  
104 100  
78 47.7 38.5 57.7  
103 54.8 43.8 65.8





#71

Bromoform

Concen: 54.906 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

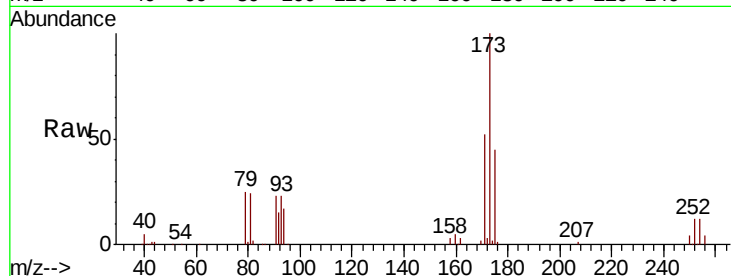
Tot Ion:173 Resp: 122959

Ion Ratio Lower Upper

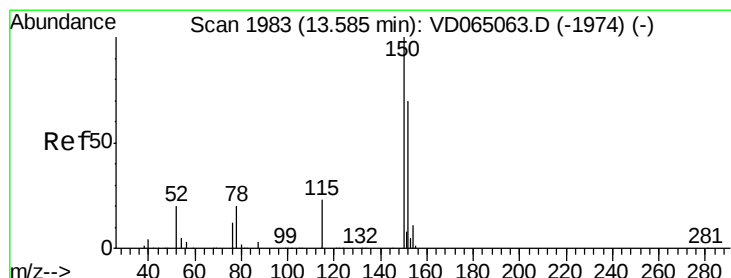
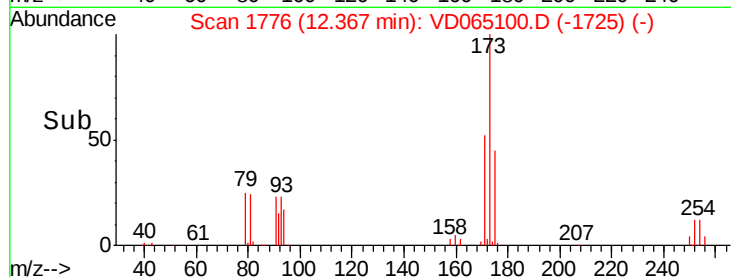
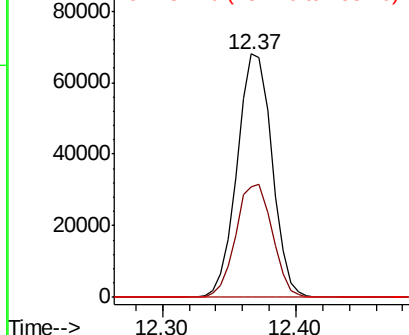
173 100

175 48.8 24.3 72.8

254 0.0 0.1 0.1#



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: VD065100.D

Acq: 06 Feb 2020 21:38

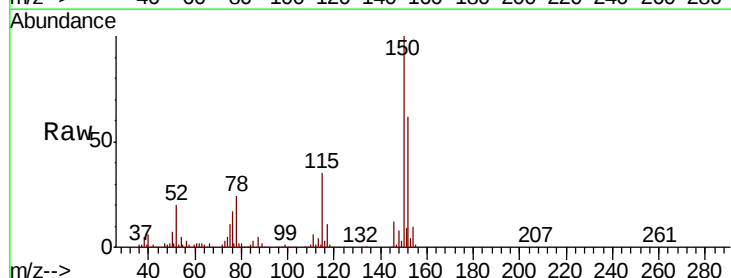
Tgt Ion:152 Resp: 288908

Ion Ratio Lower Upper

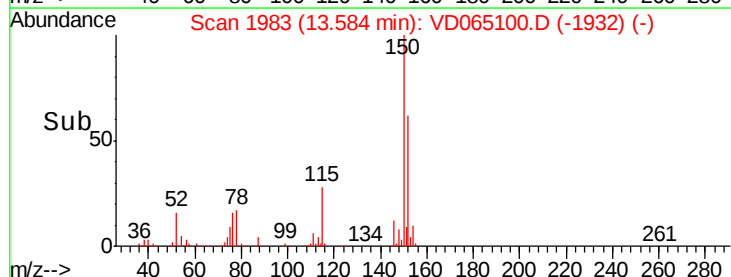
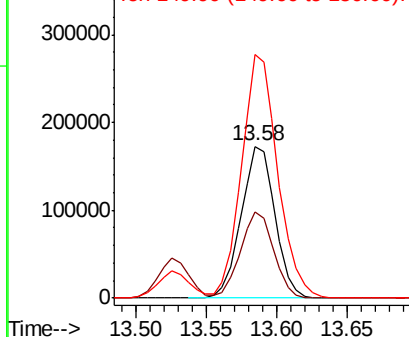
152 100

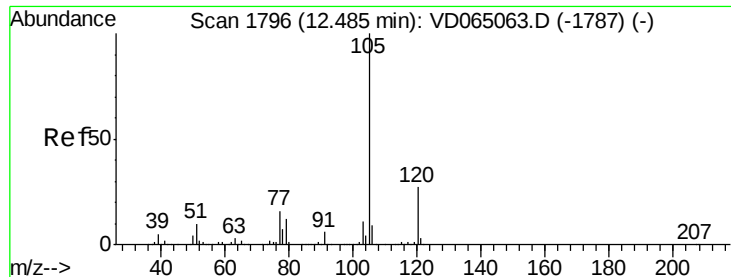
115 56.1 27.5 82.4

150 172.3 0.0 343.2



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

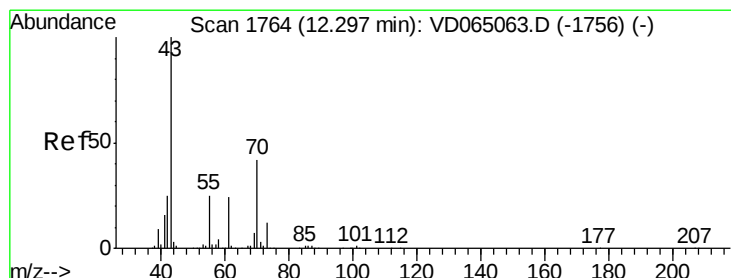
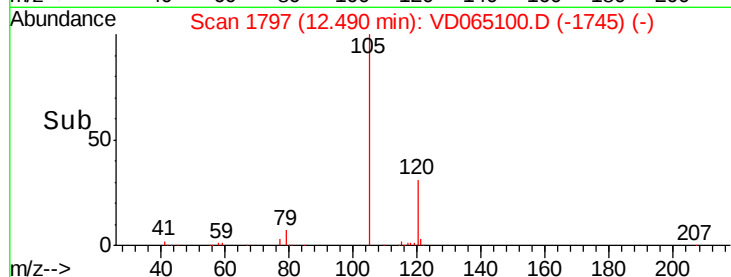
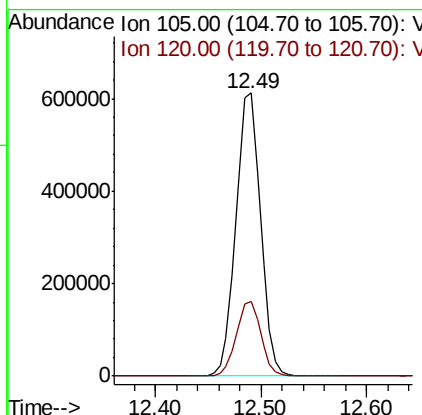
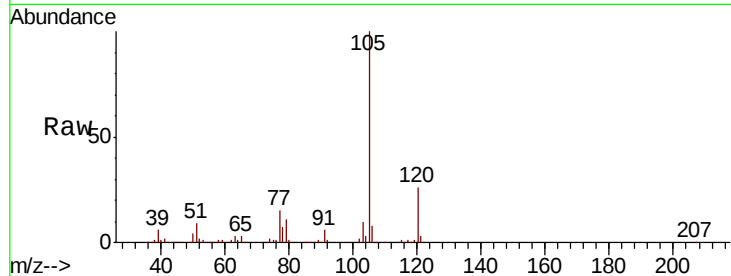




#73  
Isopropylbenzene  
Concen: 49.590 ug/l  
RT: 12.49 min Scan# 1797  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

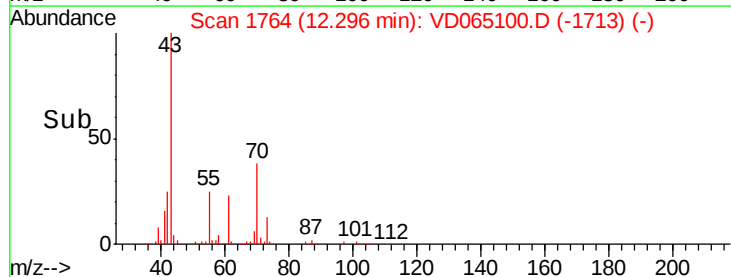
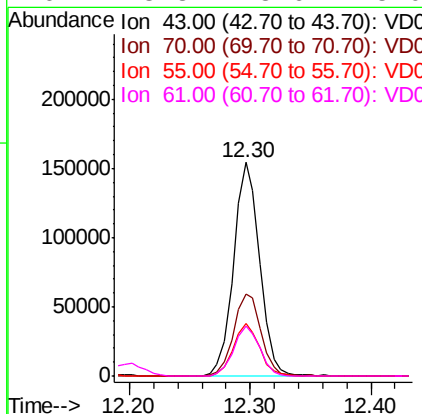
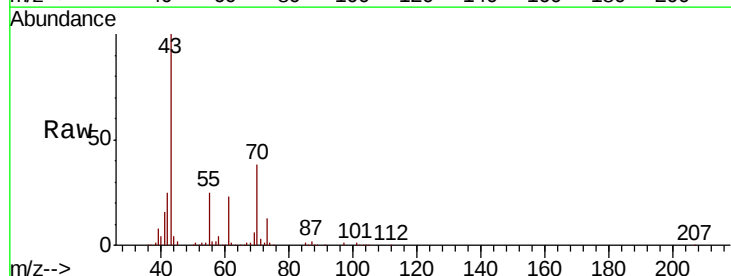
Instrument :  
MSVOA\_D  
ClientSampleId :

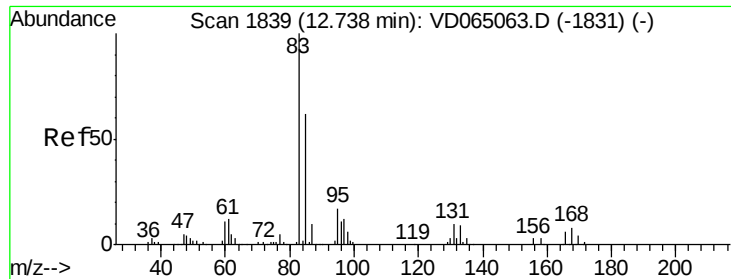
Tot Ion:105 Resp: 983351  
Ion Ratio Lower Upper  
105 100  
120 26.3 13.3 39.9



#74  
N-ethyl acetate  
Concen: 53.907 ug/l  
RT: 12.30 min Scan# 1764  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 43 Resp: 232343  
Ion Ratio Lower Upper  
43 100  
70 40.3 33.5 50.3  
55 24.6 19.4 29.2  
61 23.3 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.654 ug/l

RT: 12.74 min Scan# 1840

Delta R.T. 0.01 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

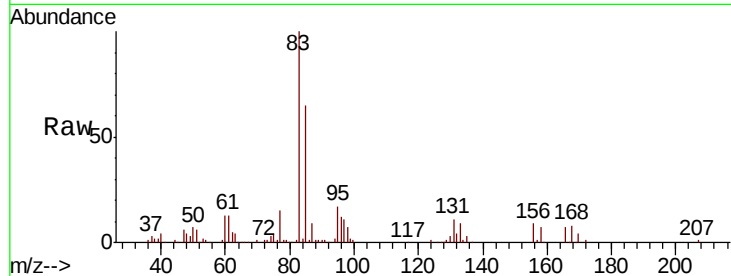
Tot Ion: 83 Resp: 164326

Ion Ratio Lower Upper

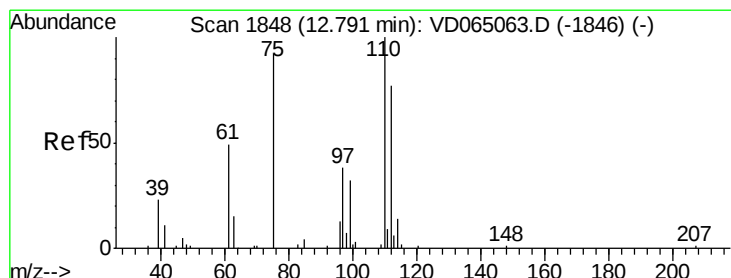
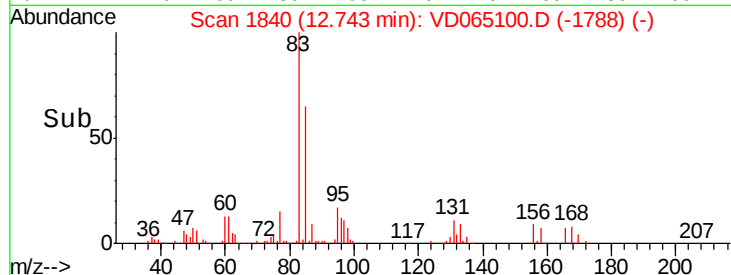
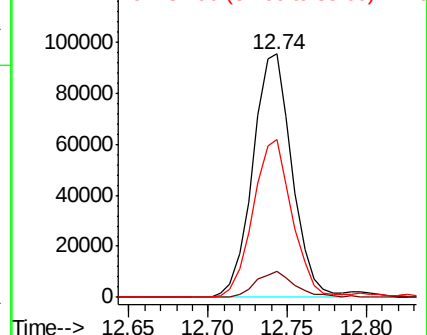
83 100

131 10.7 5.5 16.4

85 64.6 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: 101.194 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VD065100.D

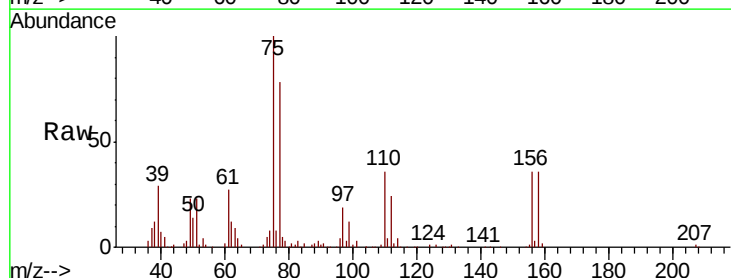
Acq: 06 Feb 2020 21:38

Tgt Ion: 75 Resp: 221345

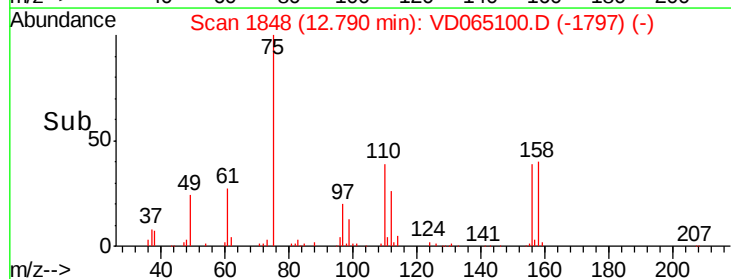
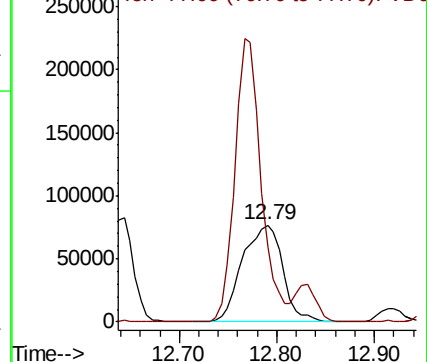
Ion Ratio Lower Upper

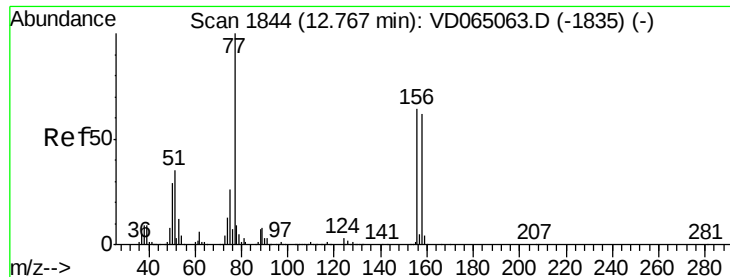
75 100

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: 50.655 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. 0.01 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

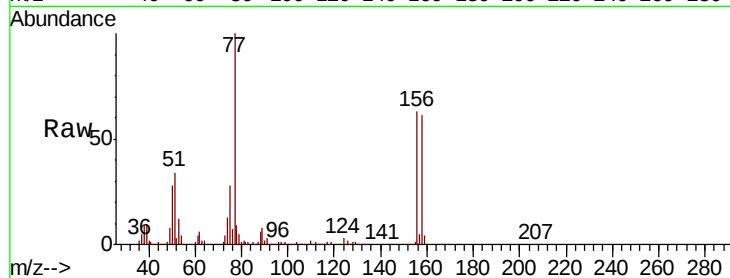
Tot Ion:156 Resp: 242009

Ion Ratio Lower Upper

156 100

77 172.5 85.6 256.8

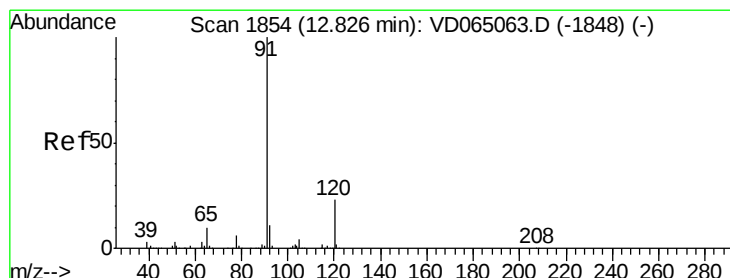
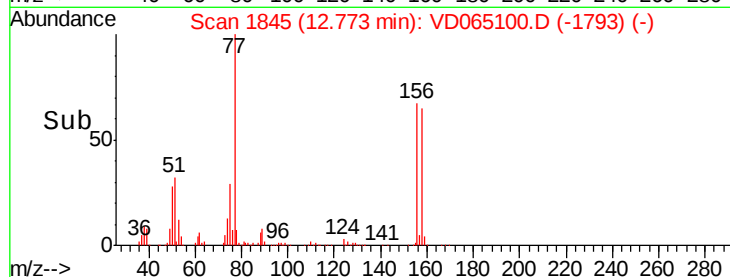
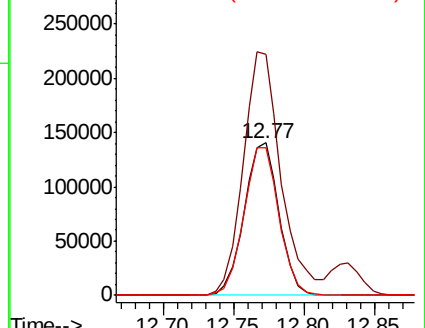
158 98.0 47.4 142.2



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: 50.651 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD065100.D

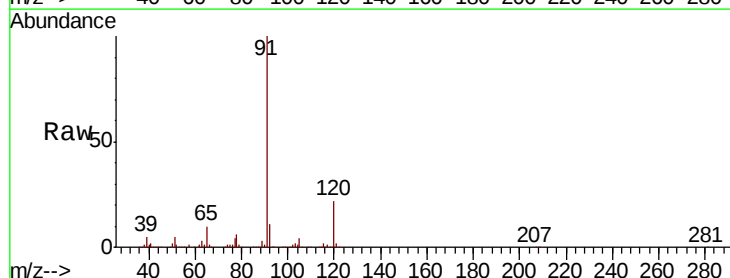
Acq: 06 Feb 2020 21:38

Tgt Ion: 91 Resp: 1176236

Ion Ratio Lower Upper

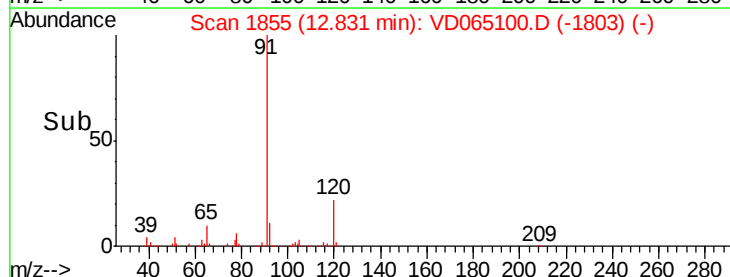
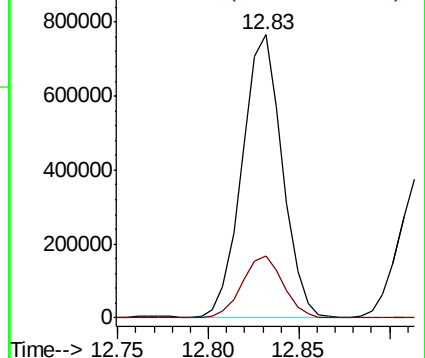
91 100

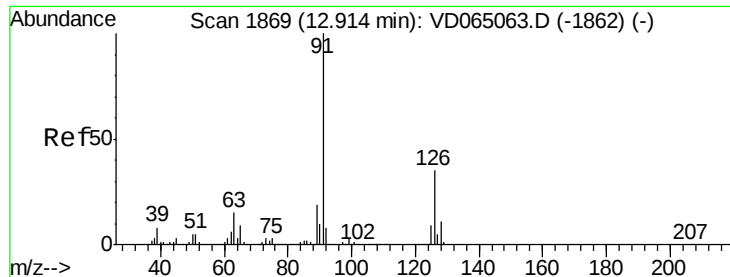
120 22.5 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

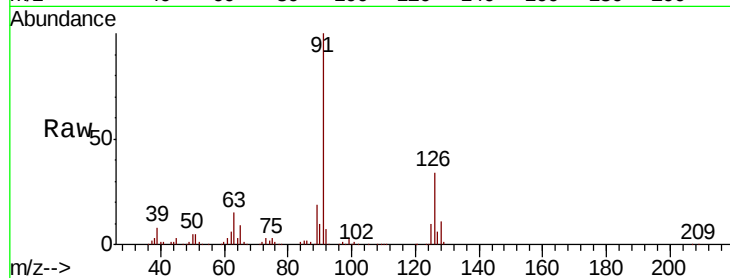




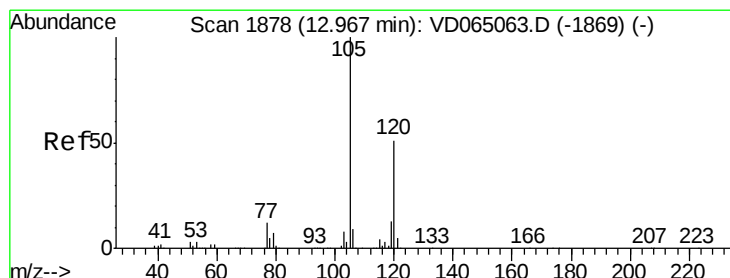
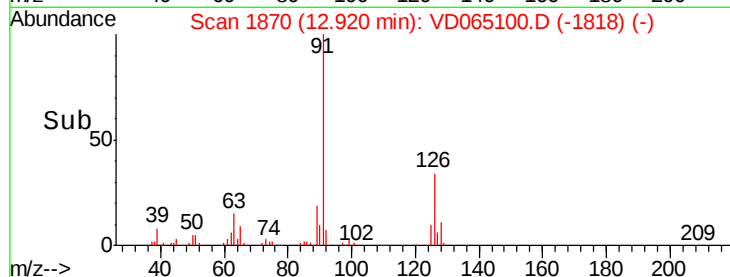
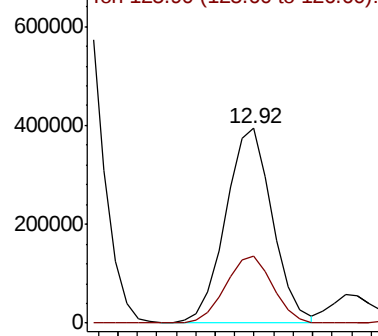
#79  
2-Chlorotoluene  
Concen: 50.266 ug/l  
RT: 12.92 min Scan# 1870  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 91 Resp: 650658  
Ion Ratio Lower Upper  
91 100  
126 34.8 17.4 52.3

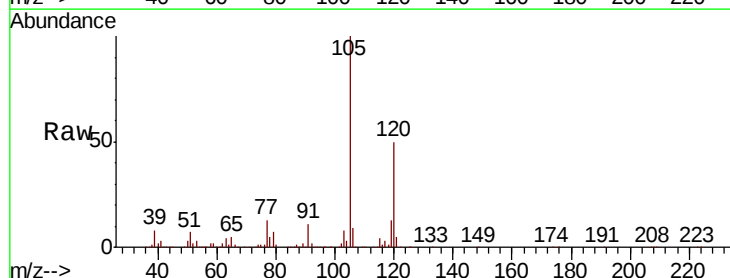


Abundance Ion 91.00 (90.70 to 91.70): VD  
Ion 125.90 (125.60 to 126.60): V

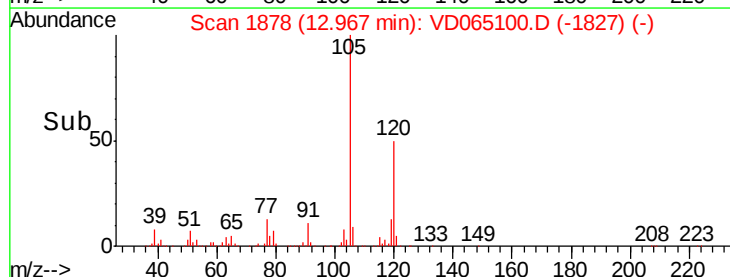
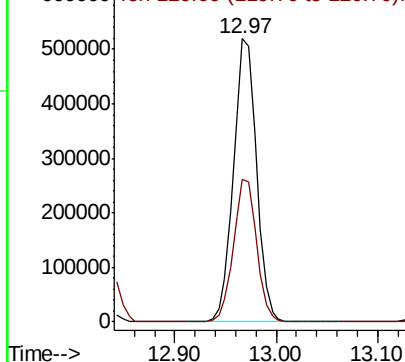


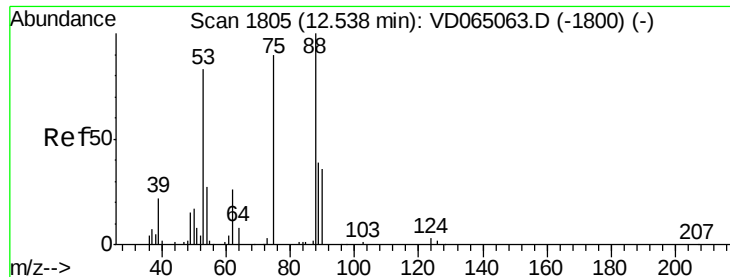
#80  
1,3,5-Trimethylbenzene  
Concen: 50.570 ug/l  
RT: 12.97 min Scan# 1878  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion:105 Resp: 820377  
Ion Ratio Lower Upper  
105 100  
120 50.6 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 50.015 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampled :

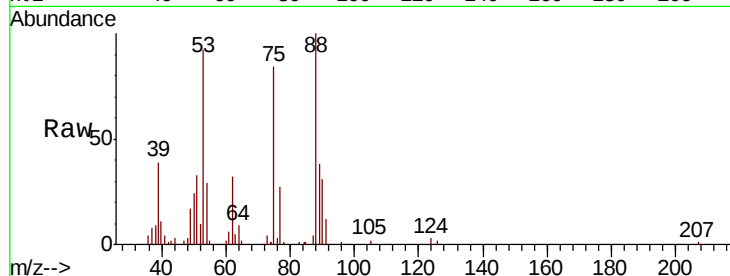
Tot Ion: 75 Resp: 54702

Ion Ratio Lower Upper

75 100

53 102.8 78.5 117.7

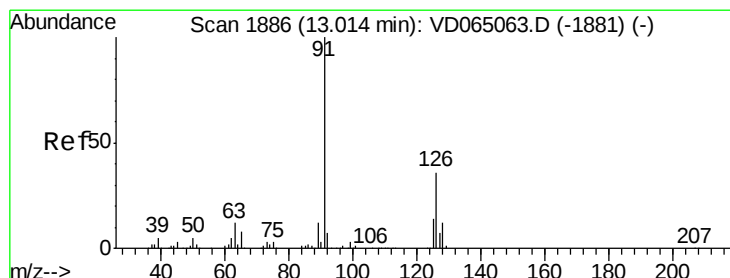
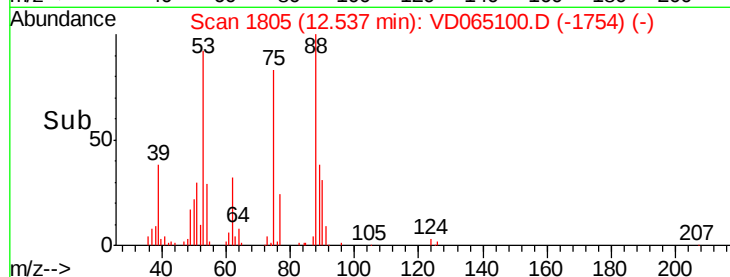
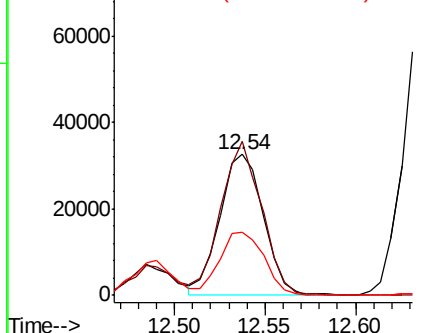
89 45.4 37.0 55.4



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: 50.995 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VD065100.D

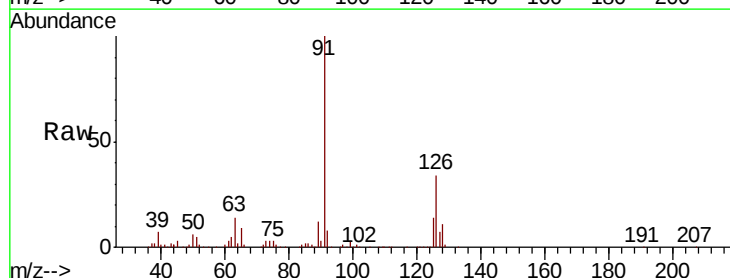
Acq: 06 Feb 2020 21:38

Tgt Ion: 91 Resp: 693261

Ion Ratio Lower Upper

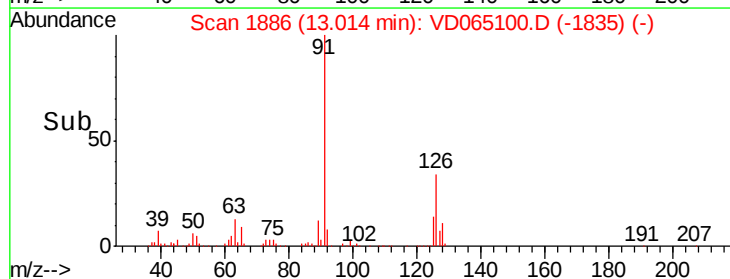
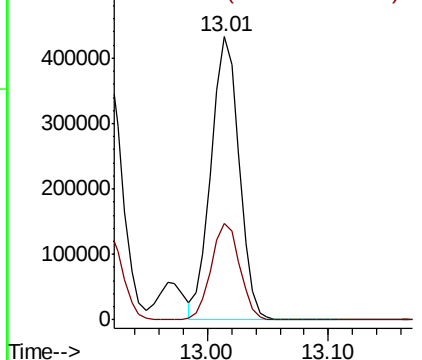
91 100

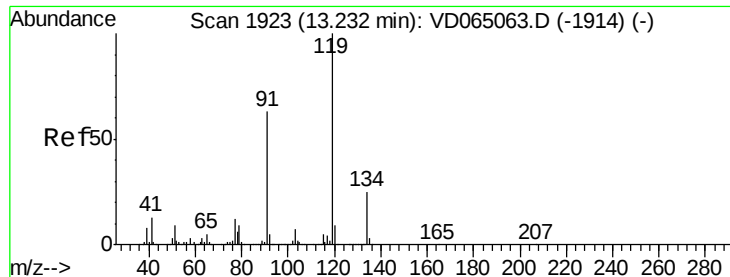
126 34.8 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 49.060 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VD065100.D

Acq: 06 Feb 2020 21:38

Instrument :

MSVOA\_D

ClientSampleId :

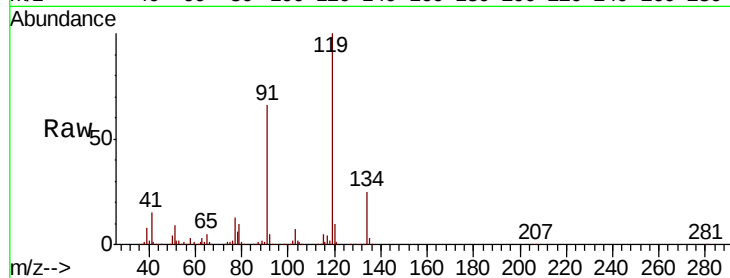
Tot Ion:119 Resp: 686631

Ion Ratio Lower Upper

119 100

91 62.9 32.3 96.9

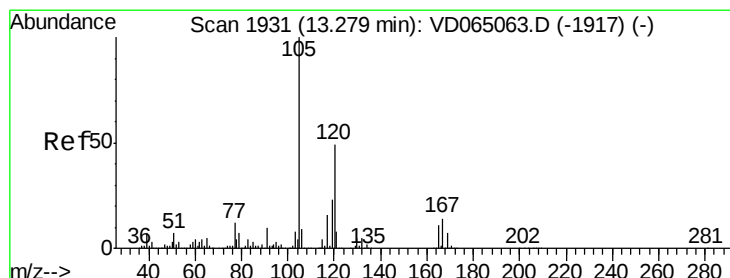
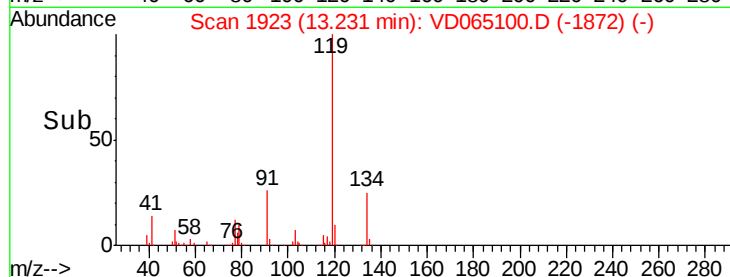
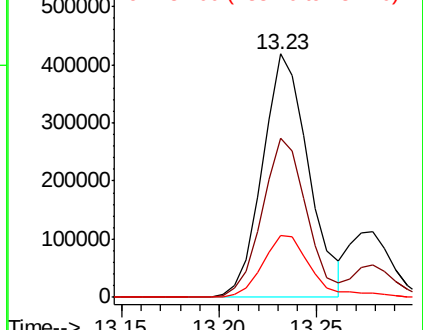
134 27.0 13.8 41.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 51.295 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VD065100.D

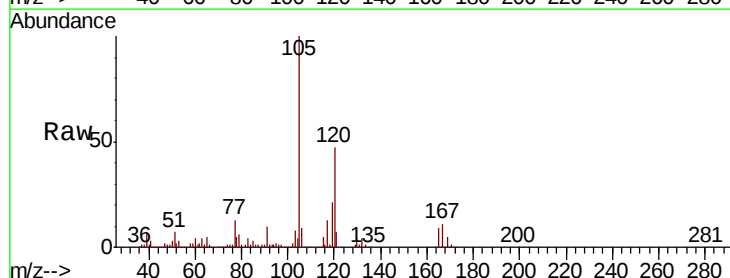
Acq: 06 Feb 2020 21:38

Tgt Ion:105 Resp: 826138

Ion Ratio Lower Upper

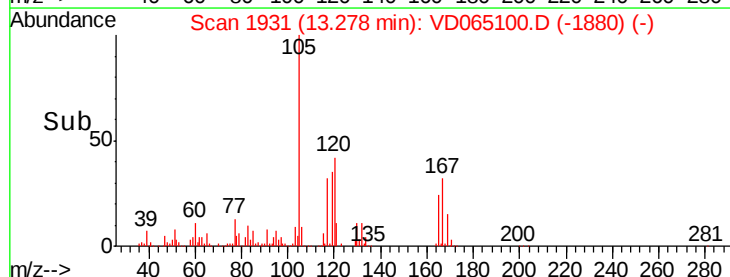
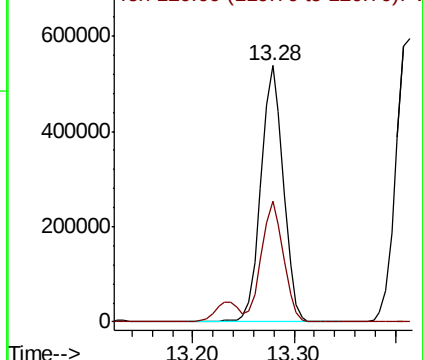
105 100

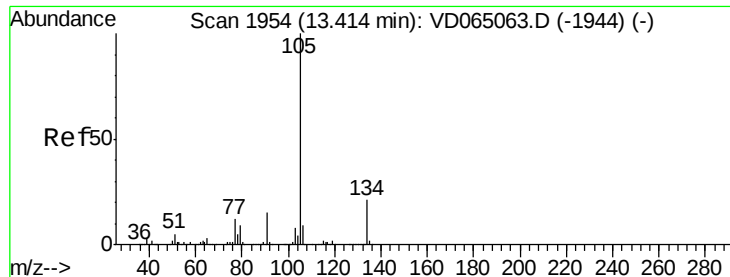
120 46.6 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

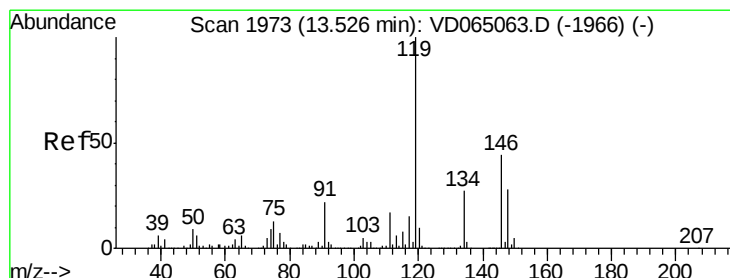
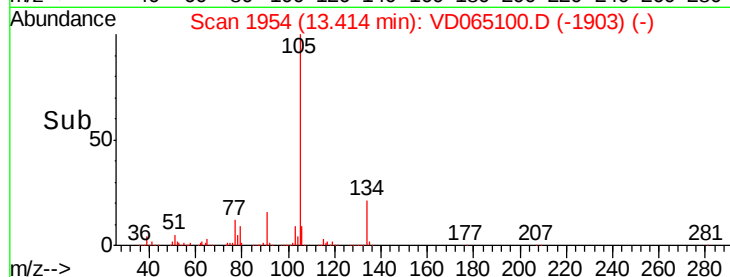
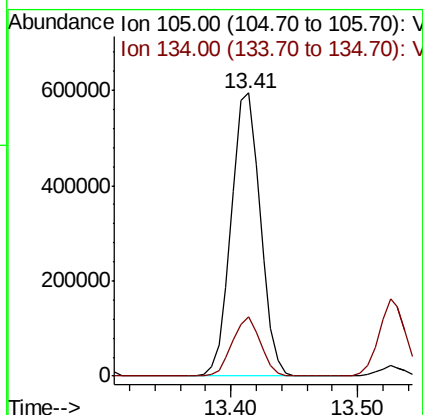
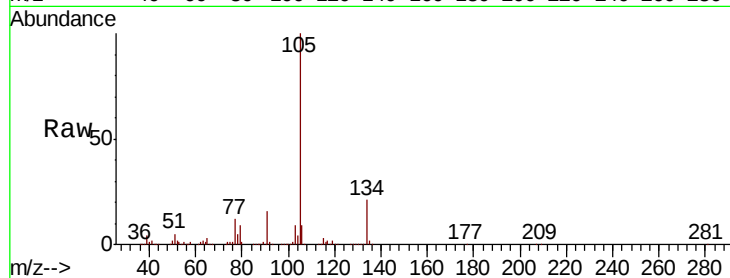




#85  
 sec-Butylbenzene  
 Concen: 49.162 ug/l  
 RT: 13.41 min Scan# 1954  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

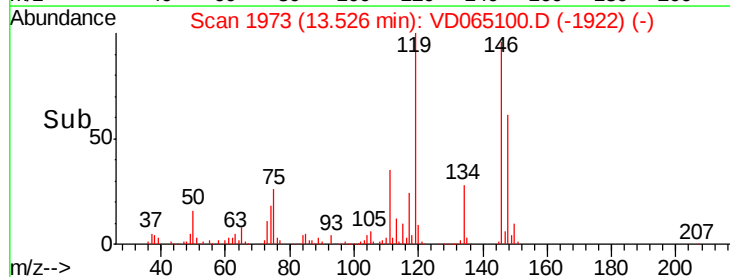
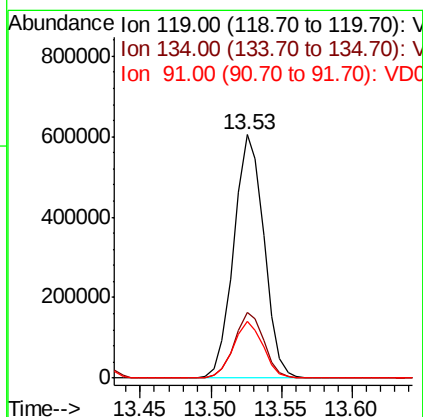
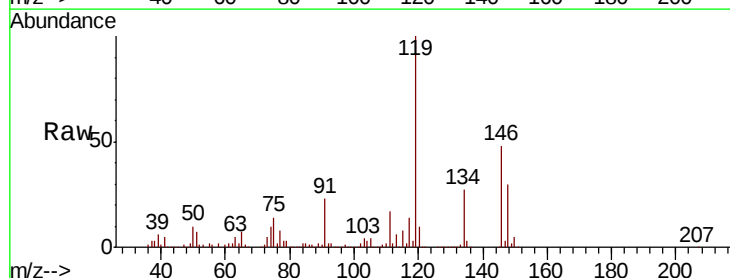
Instrument :  
 MSVOA\_D  
 ClientSampleId :

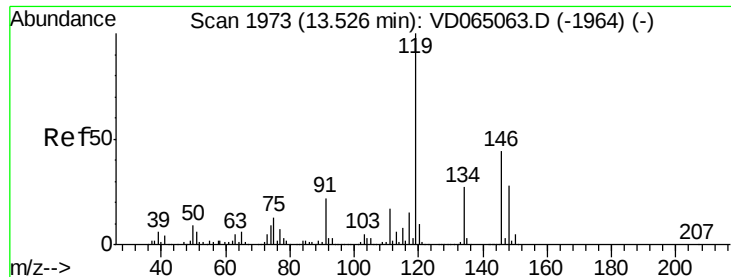
Tot Ion:105 Resp: 939752  
 Ion Ratio Lower Upper  
 105 100  
 134 20.3 10.4 31.1



#86  
 p-Isopropyltoluene  
 Concen: 50.783 ug/l  
 RT: 13.53 min Scan# 1973  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

Tgt Ion:119 Resp: 901929  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 13.5 40.5  
 91 22.7 11.3 33.9

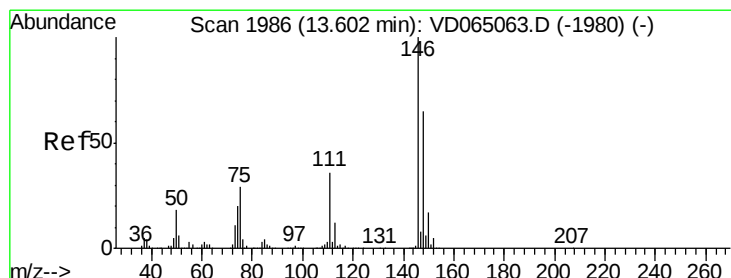
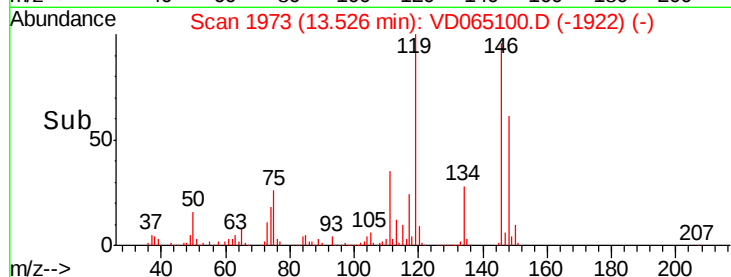
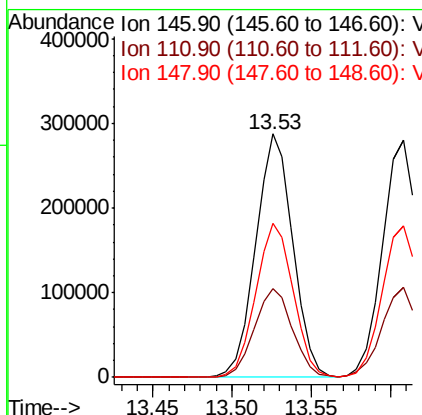
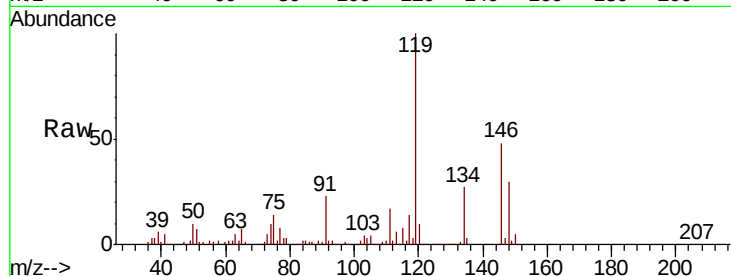




#87  
 1,3-Dichlorobenzene  
 Concen: 52.208 ug/l  
 RT: 13.53 min Scan# 1973  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

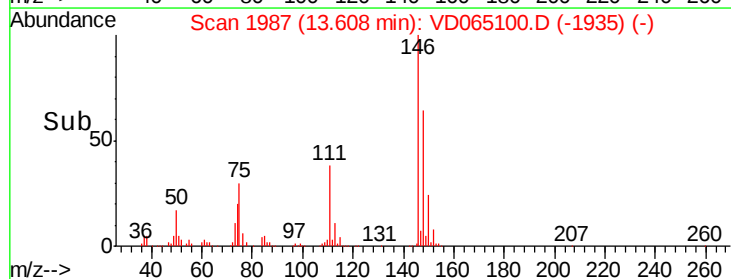
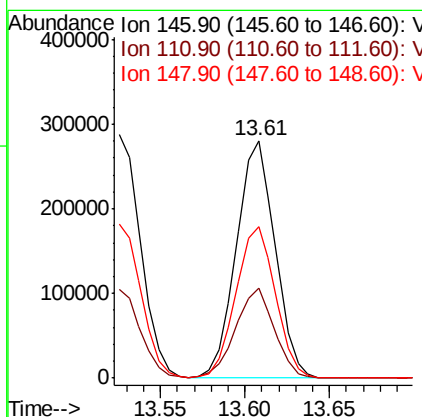
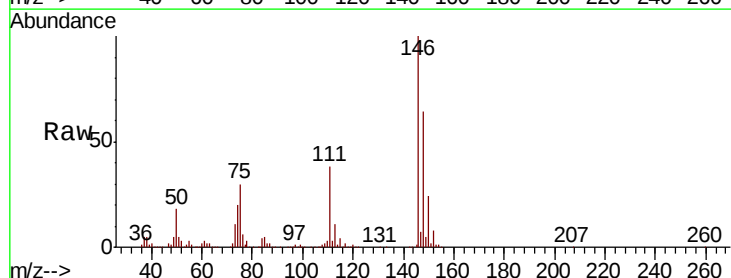
Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.6  | 19.4  | 58.4  |
| 148     | 63.8  | 32.3  | 96.8  |



#88  
 1,4-Dichlorobenzene  
 Concen: 50.485 ug/l  
 RT: 13.61 min Scan# 1987  
 Delta R.T. 0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 18.5  | 55.5  |
| 148     | 64.9  | 32.7  | 98.1  |

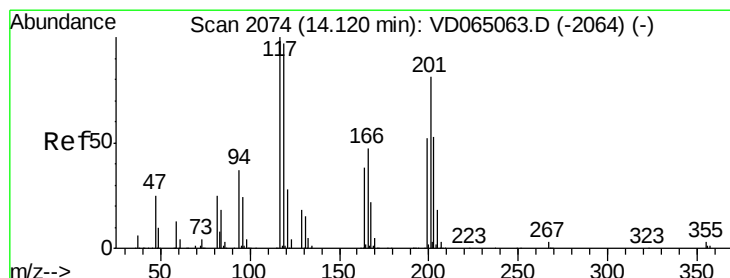
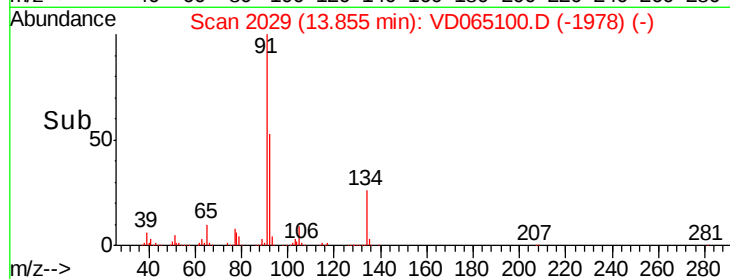
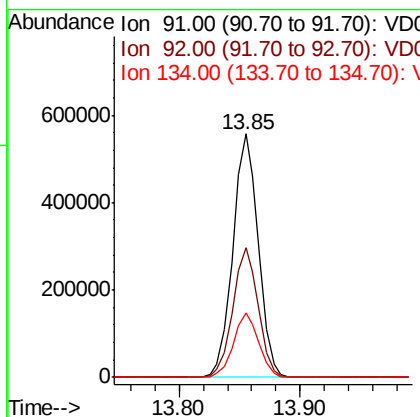
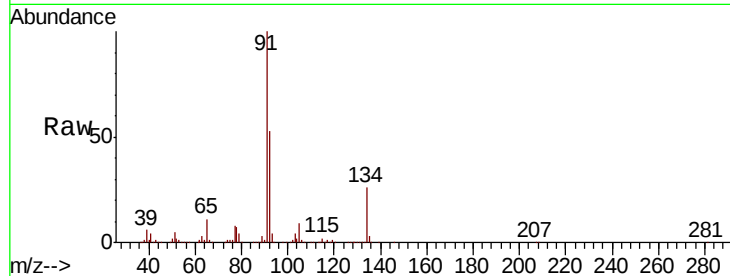




#89  
n-Butylbenzene  
Concen: 49.584 ug/l  
RT: 13.85 min Scan# 2029  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

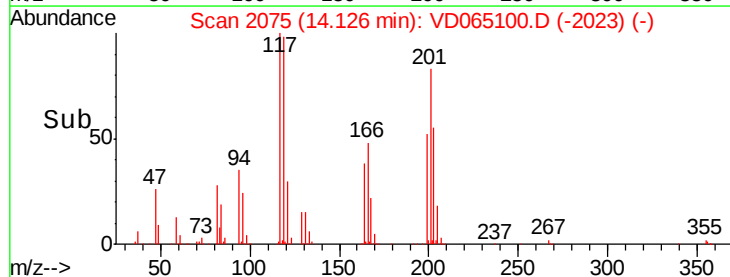
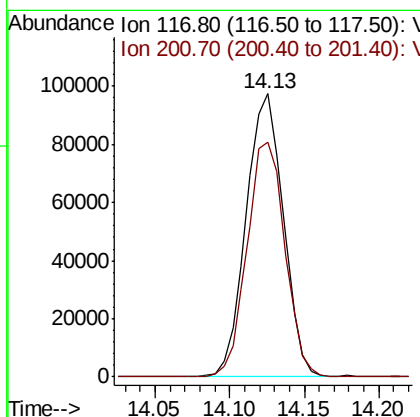
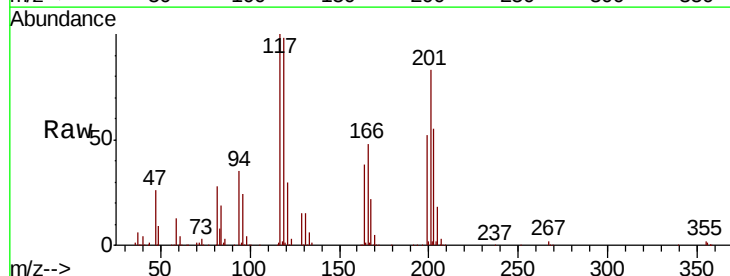
Instrument :  
MSVOA\_D  
ClientSampleId :

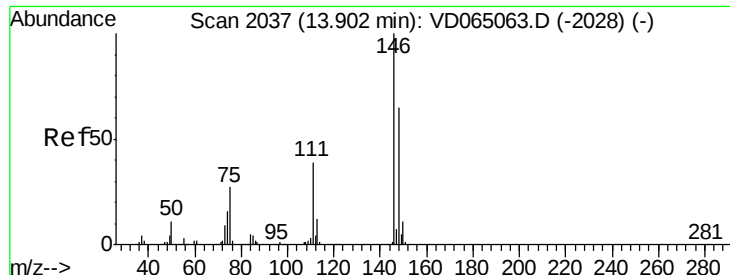
Tot Ion: 91 Resp: 812831  
Ion Ratio Lower Upper  
91 100  
92 53.2 26.7 80.1  
134 26.1 13.4 40.2



#90  
Hexachloroethane  
Concen: 49.972 ug/l  
RT: 14.13 min Scan# 2075  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Tgt Ion: 117 Resp: 168061  
Ion Ratio Lower Upper  
117 100  
201 84.4 42.5 127.6

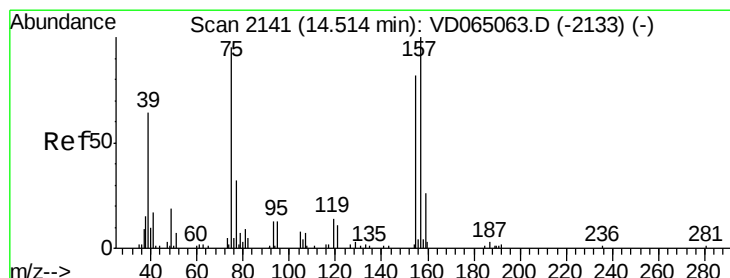
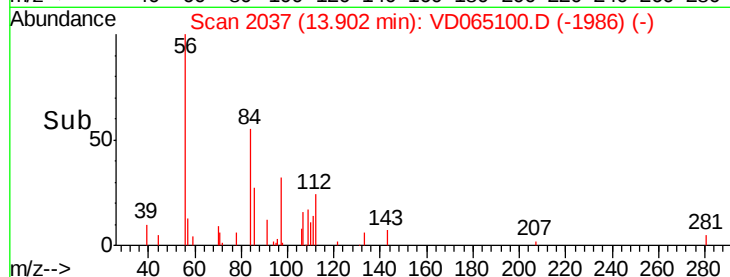
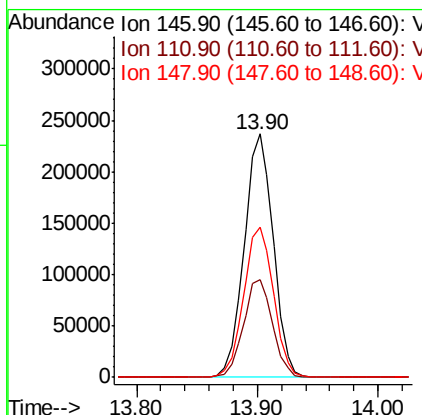
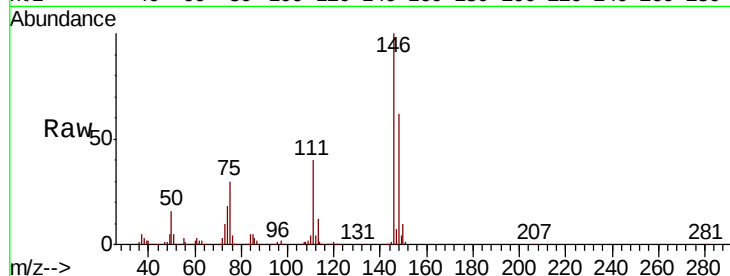




#91  
 1,2-Dichlorobenzene  
 Concen: 51.811 ug/l  
 RT: 13.90 min Scan# 2037  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

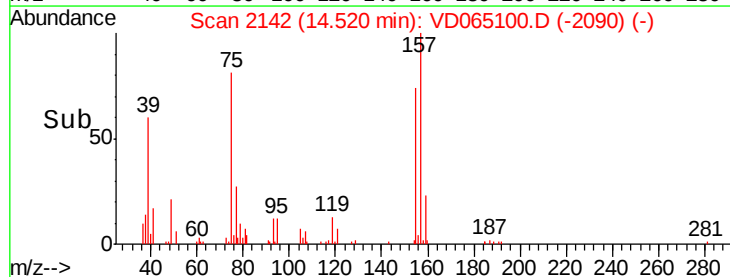
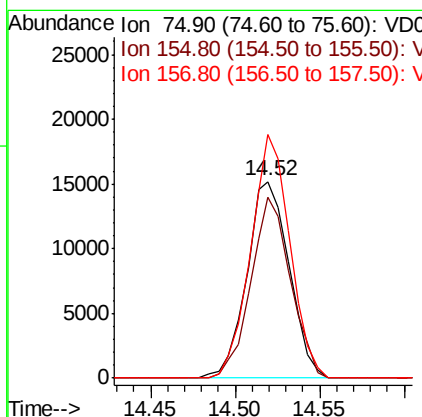
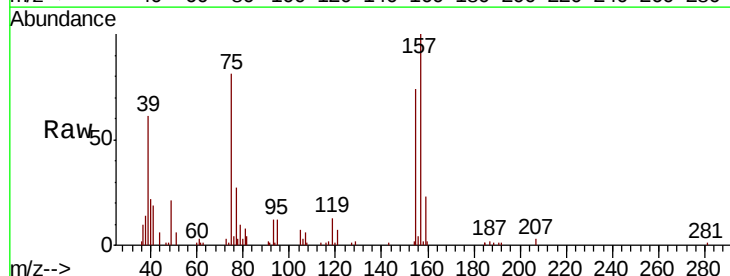
Instrument :  
 MSVOA\_D  
 ClientSampleId :

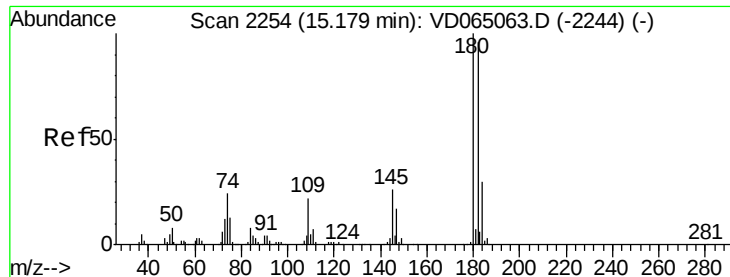
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.3  | 19.7  | 59.1  |
| 148     | 63.4  | 31.9  | 95.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 51.981 ug/l  
 RT: 14.52 min Scan# 2142  
 Delta R.T. 0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 85.9  | 43.4  | 130.1 |
| 157     | 114.2 | 55.8  | 167.3 |

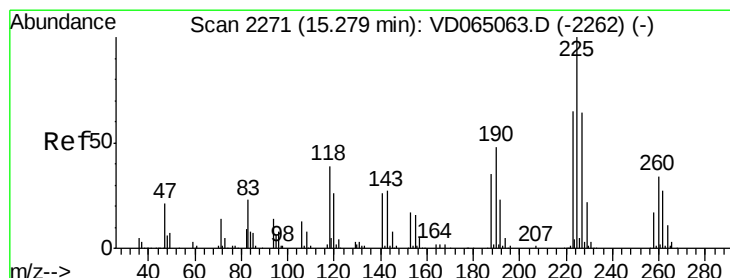
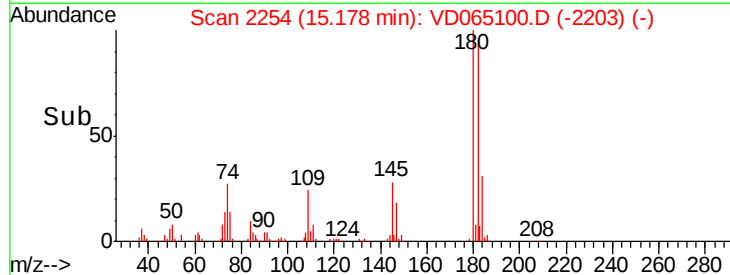
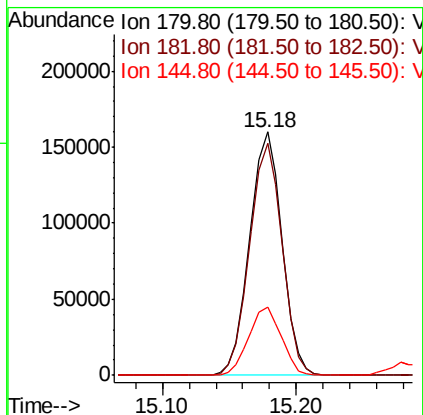
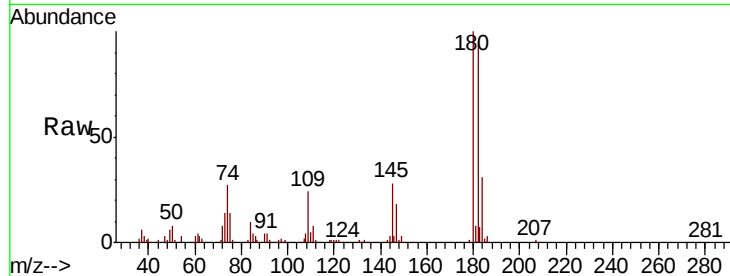




#93  
 1,2,4-Trichlorobenzene  
 Concen: 48.739 ug/l  
 RT: 15.18 min Scan# 2254  
 Delta R.T. -0.00 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

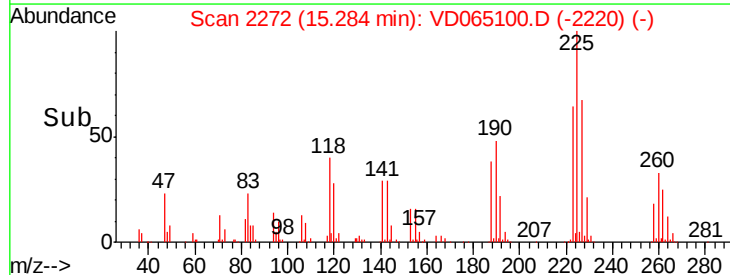
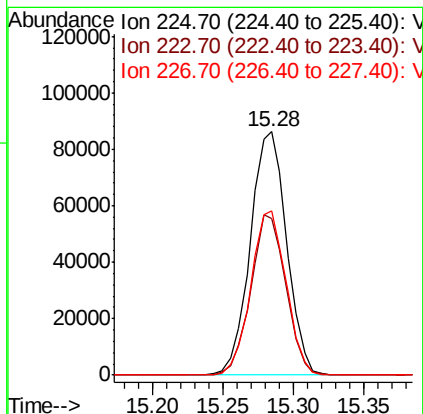
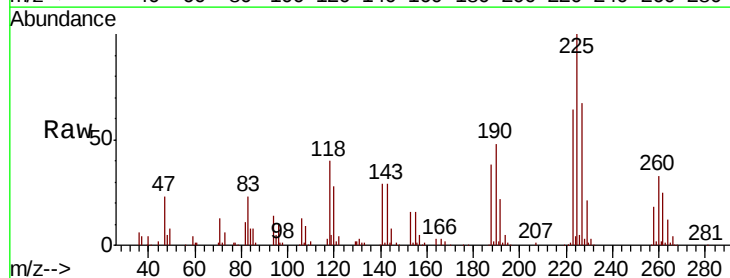
Instrument :  
 MSVOA\_D  
 ClientSampleId :

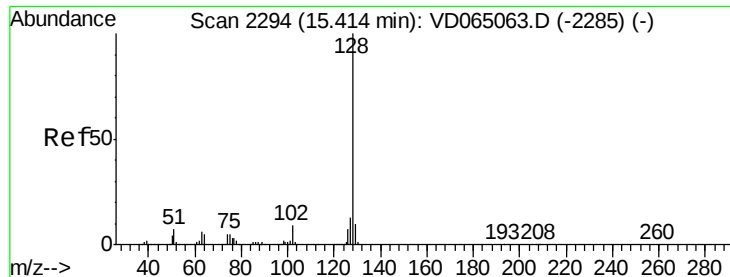
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.7  | 47.4  | 142.3 |
| 145     | 28.4  | 14.1  | 42.4  |



#94  
 Hexachlorobutadiene  
 Concen: 46.211 ug/l  
 RT: 15.28 min Scan# 2272  
 Delta R.T. 0.01 min  
 Lab File: VD065100.D  
 Acq: 06 Feb 2020 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.6  | 31.4  | 94.0  |
| 227     | 65.5  | 31.8  | 95.3  |

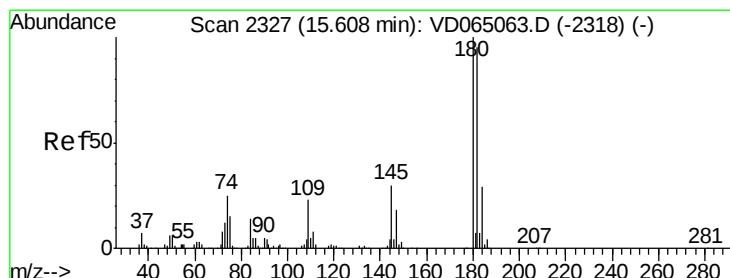
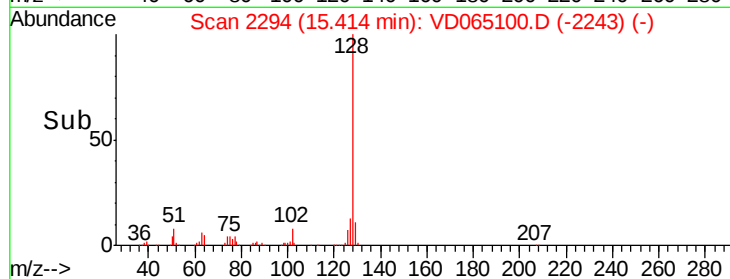
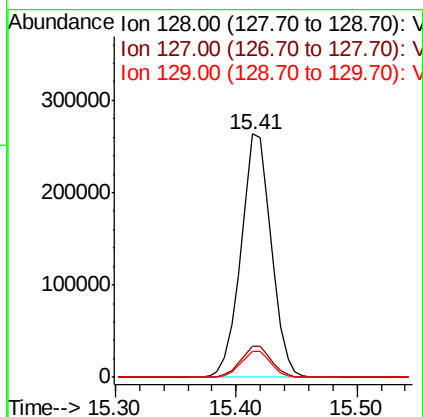
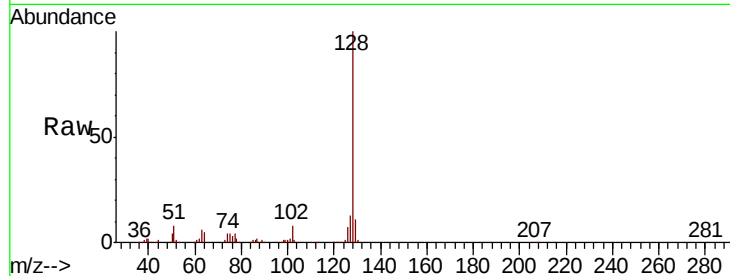




#95  
Naphthalene  
Concen: 50.712 ug/l  
RT: 15.41 min Scan# 2294  
Delta R.T. -0.00 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.2  | 10.6  | 15.8  |
| 129     | 10.7  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 49.573 ug/l  
RT: 15.61 min Scan# 2328  
Delta R.T. 0.01 min  
Lab File: VD065100.D  
Acq: 06 Feb 2020 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.3  | 47.1  | 141.4 |
| 145     | 30.0  | 14.9  | 44.9  |

