

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012020\  
 Data File : VD064883.D  
 Acq On : 20 Jan 2020 11:46  
 Operator : VA/SY  
 Sample : L1176-04MS  
 Misc : 5.17G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 21 04:08:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 357541   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 509941   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 439560   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 214264   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 141176   | 44.78 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.56% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 152030   | 48.59 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.18% |      |
| 50) Toluene-d8            | 10.34  | 98  | 595578   | 49.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.42% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 183614   | 48.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.92% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 111484  | 40.122  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 176315  | 45.371  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 207421  | 43.777  | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 136041  | 39.488  | ug/l   | 95     |
| 6) Chloroethane               | 2.93 | 64  | 144420  | 45.489  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 346871  | 43.478  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.71 | 74  | 66430   | 41.931  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 161922  | 49.008  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.29 | 142 | 168806  | 47.564  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.25 | 59  | 31753   | 175.736 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 149494  | 47.525  | ug/l   | 99     |
| 13) Acrolein                  | 3.93 | 56  | 20754   | 82.418  | ug/l   | 93     |
| 14) Allyl chloride            | 4.71 | 41  | 244458  | 49.845  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.44 | 53  | 126601  | 191.850 | ug/l   | 100    |
| 16) Acetone                   | 4.17 | 43  | 159040  | 238.431 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.40 | 76  | 424511  | 41.737  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.73 | 43  | 73738   | 41.543  | ug/l # | 76     |
| 19) Methyl tert-butyl Ether   | 5.49 | 73  | 300599  | 43.024  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.96 | 84  | 170668  | 53.247  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 175263  | 48.924  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.37 | 45  | 490754  | 50.168  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.31 | 43  | 1129869 | 203.614 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 309782  | 52.751  | ug/l   | 98     |
| 25) 2-Butanone                | 7.23 | 43  | 182896  | 211.046 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 293757  | 53.801  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 188413  | 48.734  | ug/l   | 93     |
| 28) Bromochloromethane        | 7.55 | 49  | 109535  | 47.982  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 99584   | 184.782 | ug/l   | 96     |
| 30) Chloroform                | 7.71 | 83  | 319684  | 51.886  | ug/l   | 98     |
| 31) Cyclohexane               | 7.99 | 56  | 262954  | 44.732  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 302353  | 52.246  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 251072  | 51.154  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.31 | 43  | 71360   | 37.009  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 271418  | 51.861  | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 276041   | 46.435  | ug/l   | 95       |
| 40) Benzene                    | 8.36  | 78   | 685345   | 51.150  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 46414    | 41.488  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 181775   | 46.947  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 149031   | 38.832  | ug/l   | 96       |
| 44) Trichloroethene            | 9.11  | 130  | 194685   | 49.461  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 164983   | 51.571  | ug/l   | 97       |
| 46) Dibromomethane             | 9.48  | 93   | 77904    | 43.677  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.67  | 83   | 238131   | 50.173  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 69934    | 38.700  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 15194    | 738.778 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 366549   | 193.227 | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 455963   | 51.869  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 202421   | 45.745  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 256609   | 49.181  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 107379   | 44.672  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 121652   | 40.524  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.96 | 76   | 186141   | 44.975  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 225664   | 197.307 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 273270   | 212.245 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 149921   | 45.102  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.26 | 107  | 95727    | 40.377  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 166662   | 49.422  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.68 | 112  | 462261   | 50.670  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 178840   | 52.000  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.75 | 91   | 861118   | 52.004  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 664836   | 104.021 | ug/l   | 97       |
| 69) o-Xylene                   | 12.19 | 106  | 299225   | 51.832  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 519201   | 51.237  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 82925    | 42.280  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 832364   | 54.361  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 133345   | 40.740  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 102356   | 42.554  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 141886   | 83.859  | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 183678   | 48.820  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.83 | 91   | 975870   | 54.630  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 526656   | 53.670  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 682298   | 54.246  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 33732    | 41.697  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 552826   | 52.938  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 604288   | 55.334  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 672199   | 53.661  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 827123   | 55.246  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 771570   | 53.896  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 373099   | 52.020  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 358358   | 50.861  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 702502   | 54.492  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.12 | 117  | 144112   | 52.699  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 301101   | 49.233  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 15809    | 40.543  | ug/l   | 89       |

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QLast Update : Tue Dec 24 13:19:06 2019  
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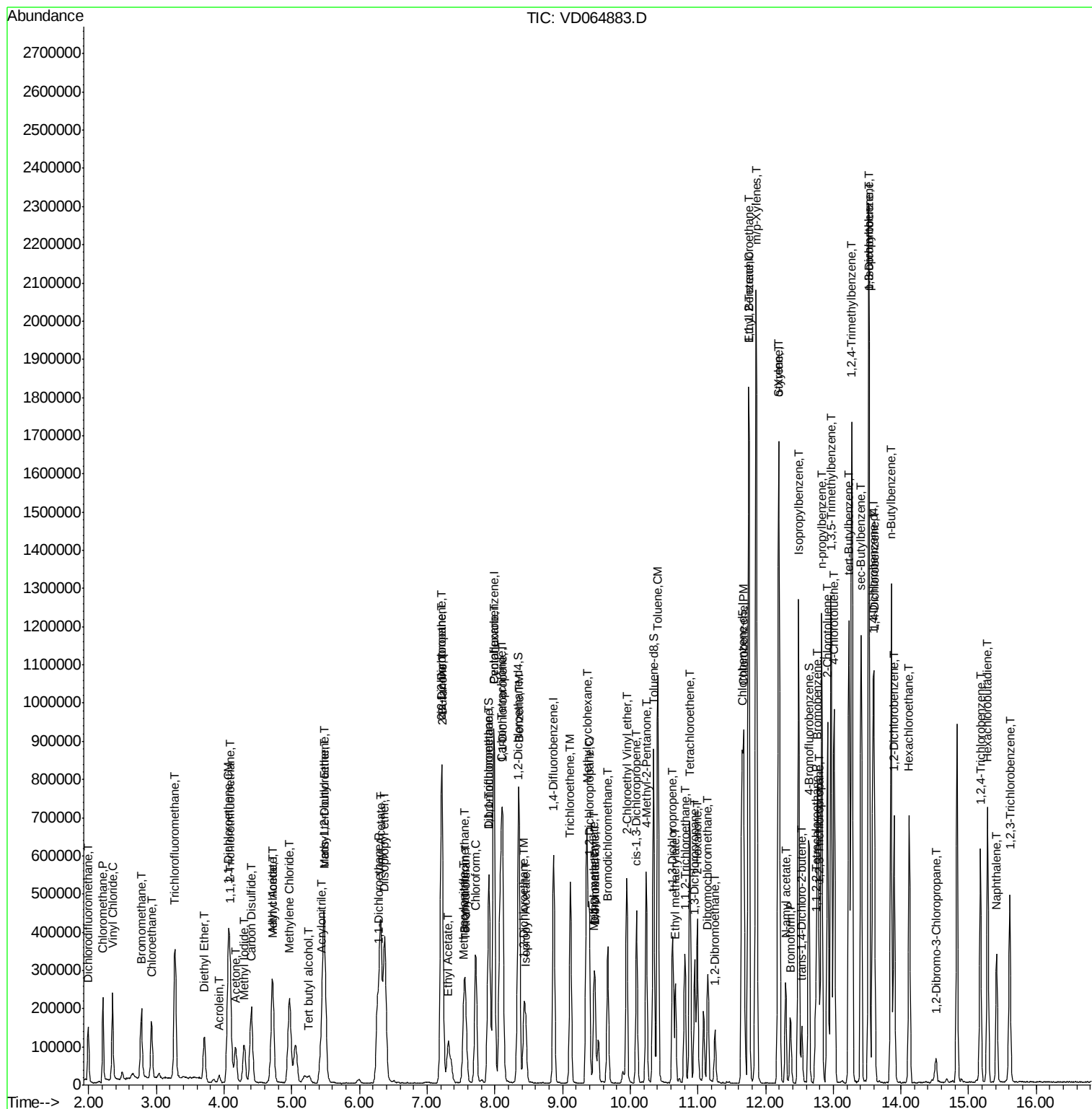
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 209440   | 46.510 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 143353   | 50.589 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 286768   | 40.254 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 172617   | 44.901 | ug/l  | 99       |

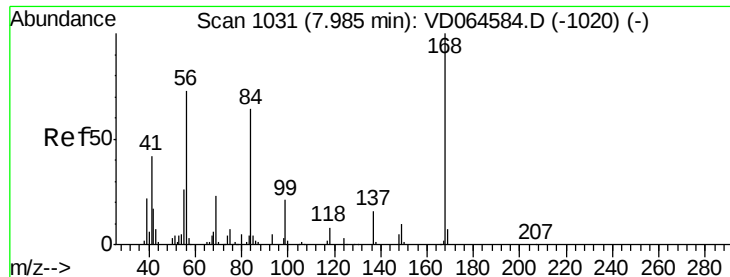
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

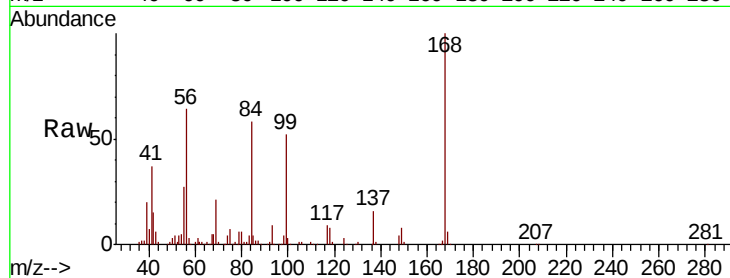
ClientSampleId :

Tot Ion:168 Resp: 357541

Ion Ratio Lower Upper

168 100

99 52.2 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

150000

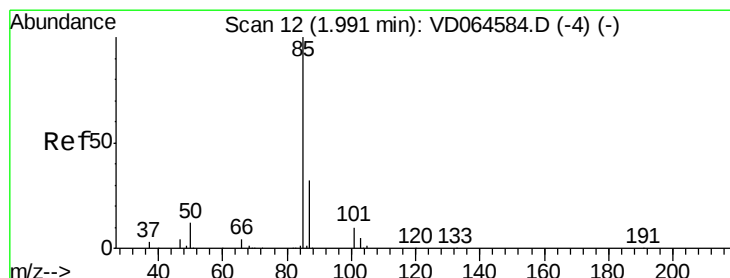
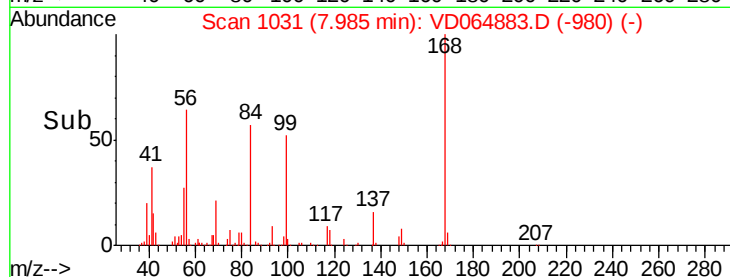
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 40.122 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064883.D

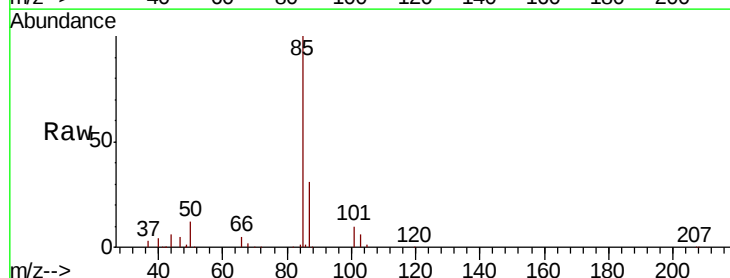
Acq: 20 Jan 2020 11:46

Tgt Ion: 85 Resp: 111484

Ion Ratio Lower Upper

85 100

87 31.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

80000

60000

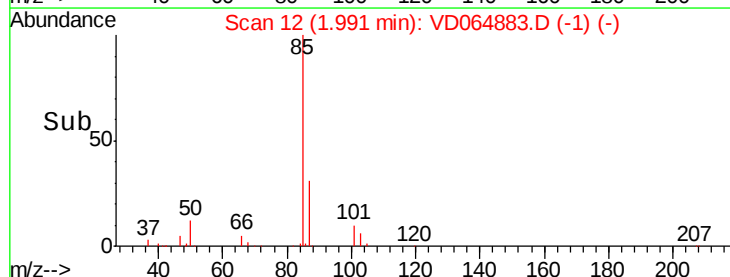
40000

20000

0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 45.371 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

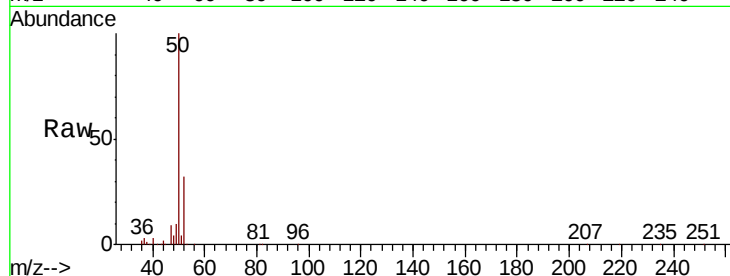
ClientSampleId :

Tot Ion: 50 Resp: 176315

Ion Ratio Lower Upper

50 100

52 31.6 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

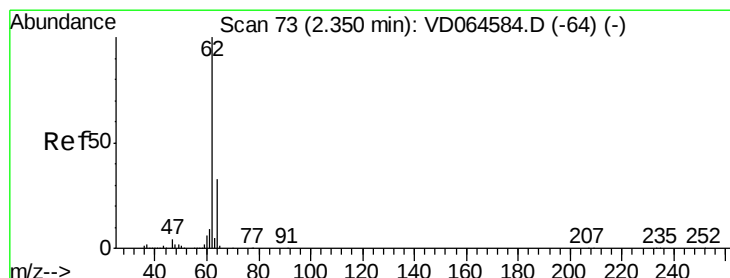
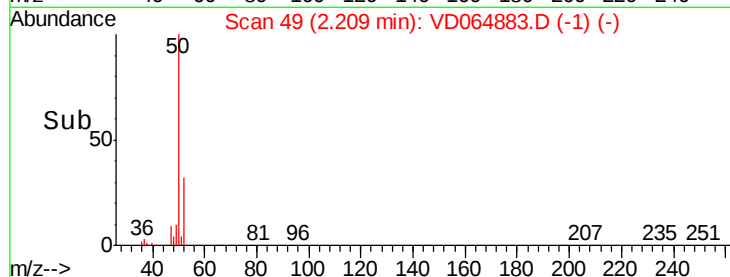
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 43.777 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064883.D

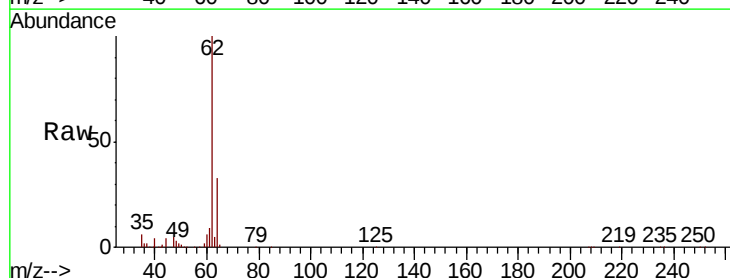
Acq: 20 Jan 2020 11:46

Tgt Ion: 62 Resp: 207421

Ion Ratio Lower Upper

62 100

64 33.0 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

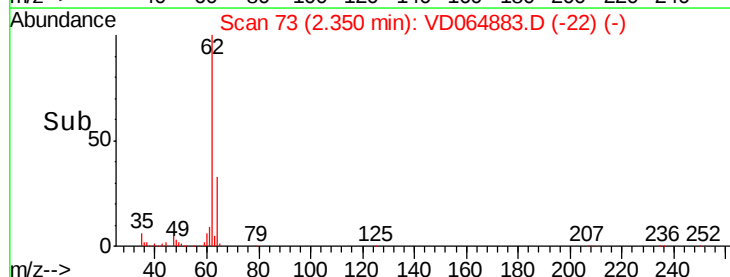
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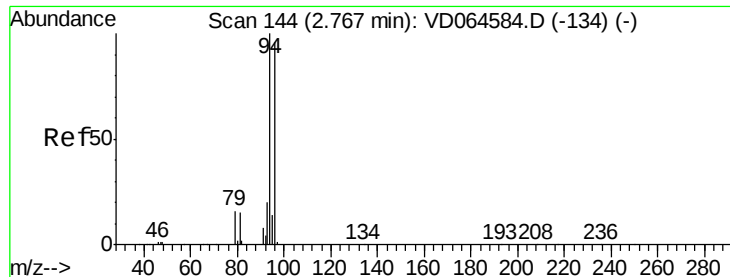
100000

50000

0

Time-->





#5

Bromomethane

Concen: 39.488 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

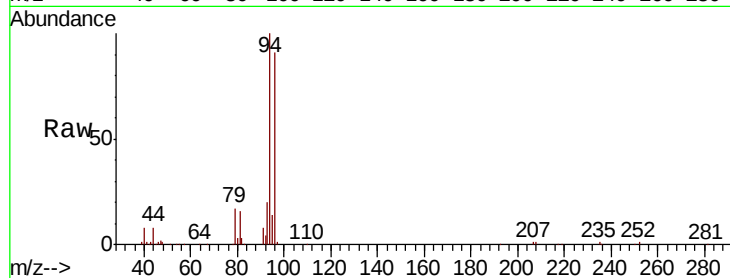
ClientSampleId :

Tot Ion: 94 Resp: 136041

Ion Ratio Lower Upper

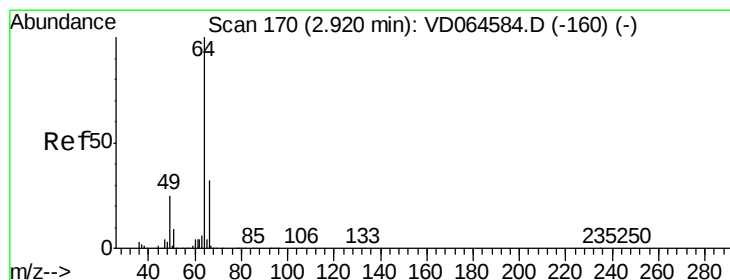
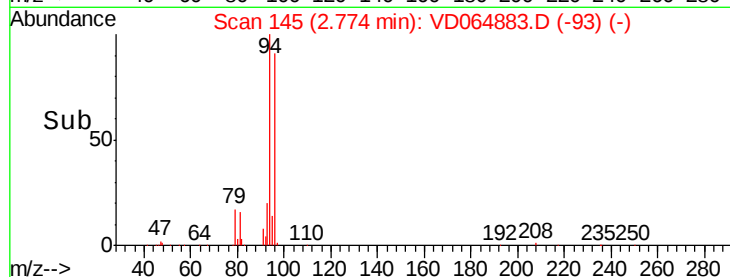
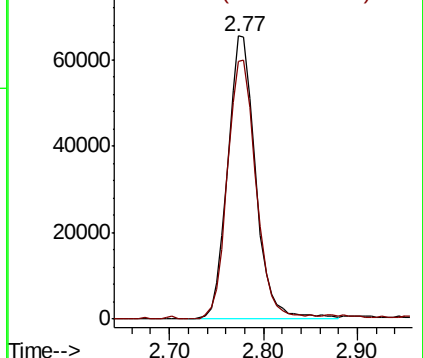
94 100

96 91.3 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 45.489 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD064883.D

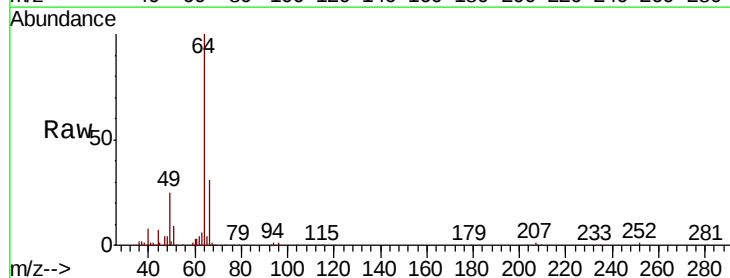
Acq: 20 Jan 2020 11:46

Tgt Ion: 64 Resp: 144420

Ion Ratio Lower Upper

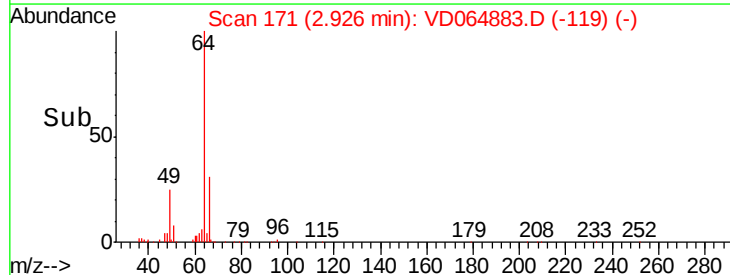
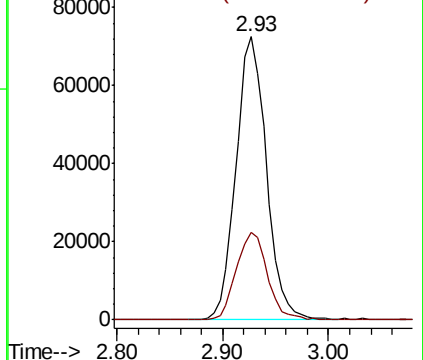
64 100

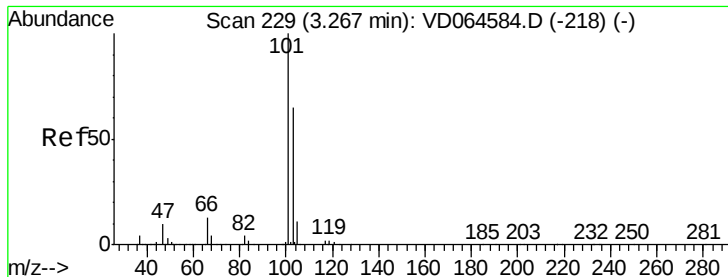
66 31.1 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



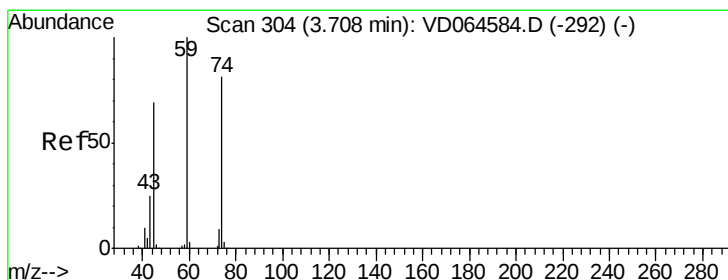
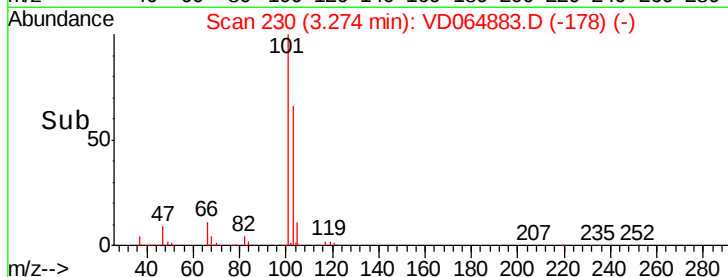
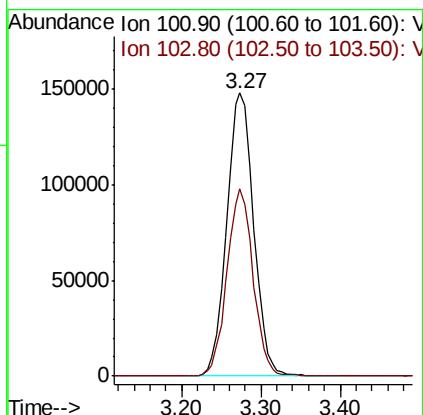
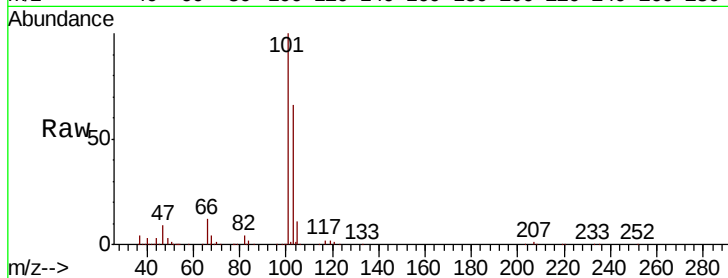


#7

Trichlorofluoromethane  
 Concen: 43.478 ug/l  
 RT: 3.27 min Scan# 230  
 Delta R.T. 0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Instrument :  
 MSVOA\_D  
 ClientSampleId :

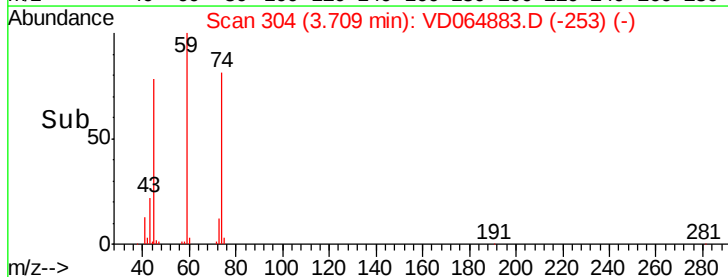
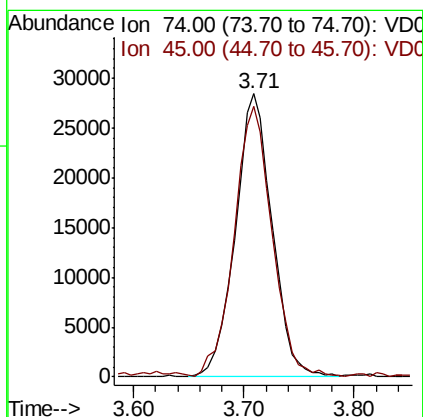
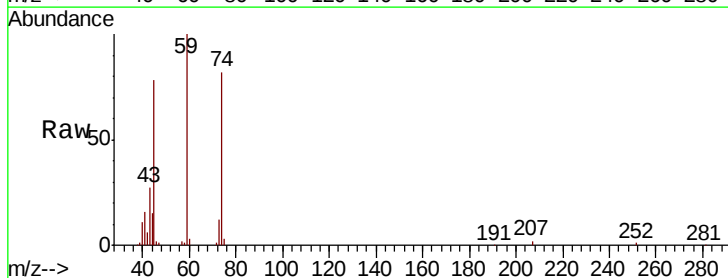
Tot Ion:101 Resp: 346871  
 Ion Ratio Lower Upper  
 101 100  
 103 66.2 52.2 78.4

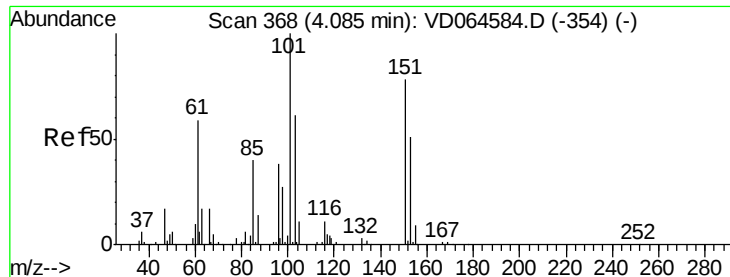


#8

Diethyl Ether  
 Concen: 41.931 ug/l  
 RT: 3.71 min Scan# 304  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Tgt Ion: 74 Resp: 66430  
 Ion Ratio Lower Upper  
 74 100  
 45 98.8 47.5 142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.008 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

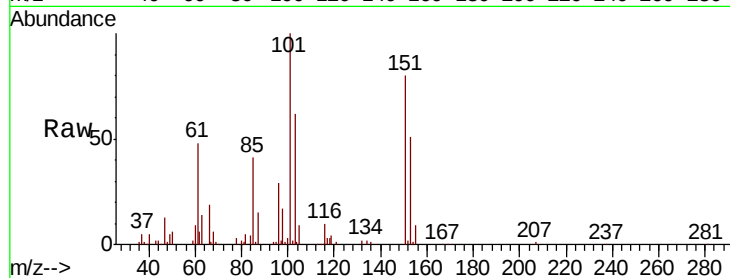
Tot Ion:101 Resp: 161922

Ion Ratio Lower Upper

101 100

85 43.9 35.2 52.8

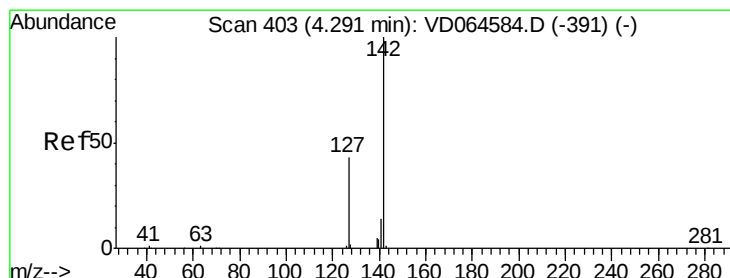
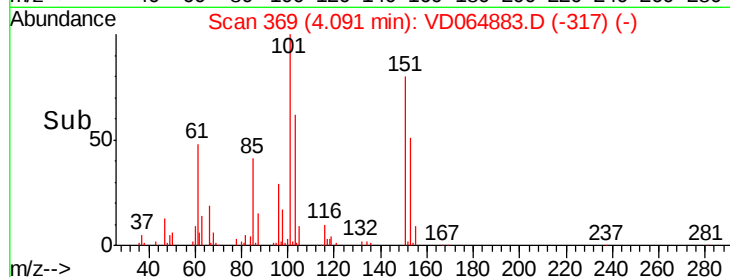
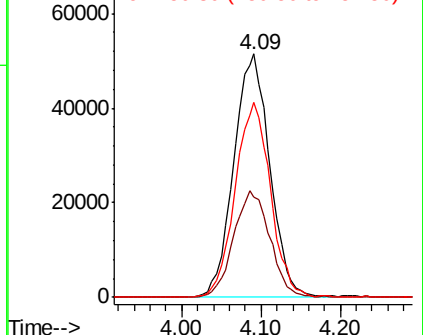
151 78.8 66.2 99.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 47.564 ug/l

RT: 4.29 min Scan# 403

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

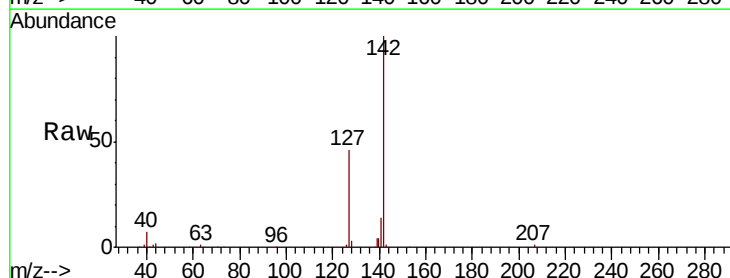
Tgt Ion:142 Resp: 168806

Ion Ratio Lower Upper

142 100

127 45.1 36.2 54.4

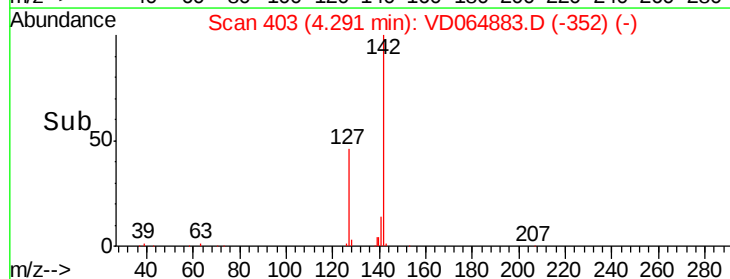
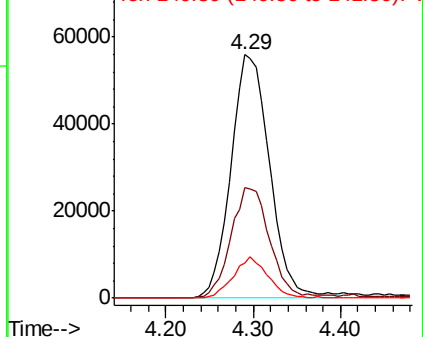
141 15.1 11.8 17.8

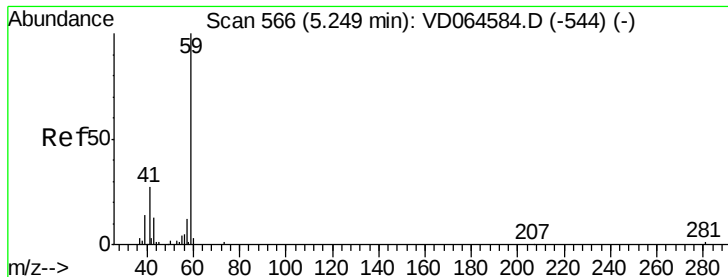


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



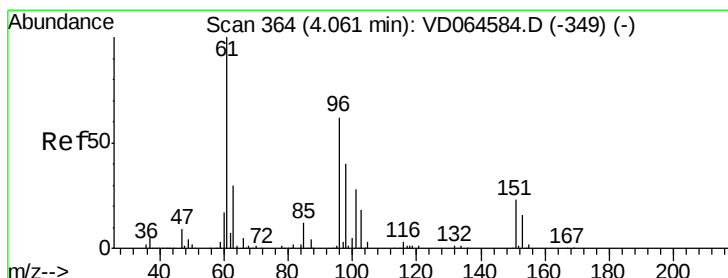
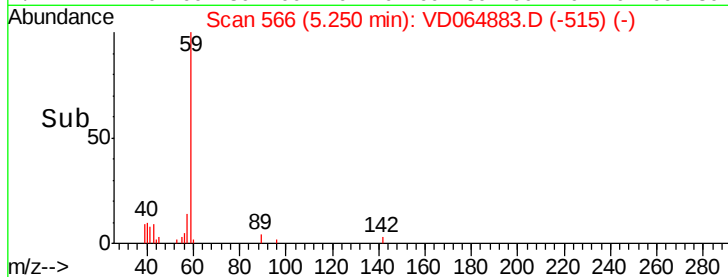
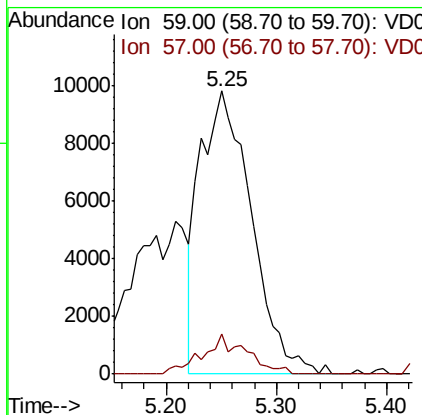
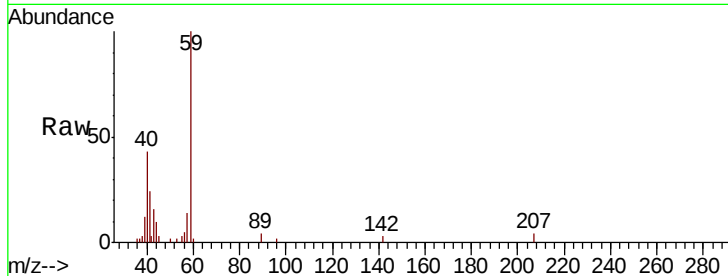


#11

Tert butyl alcohol  
 Concen: 175.736 ug/l  
 RT: 5.25 min Scan# 566  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Instrument :  
 MSVOA\_D  
 ClientSampled :

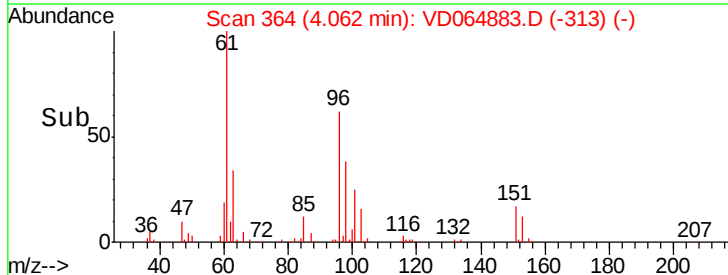
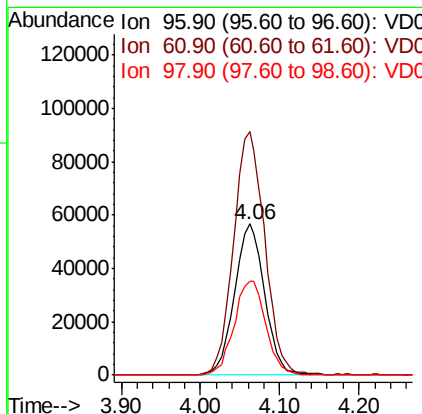
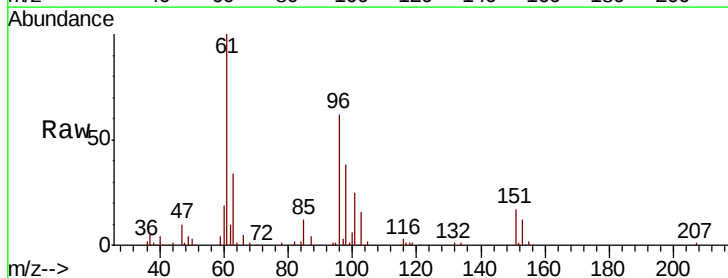
Tot Ion: 59 Resp: 31753  
 Ion Ratio Lower Upper  
 59 100  
 57 12.0 9.3 13.9

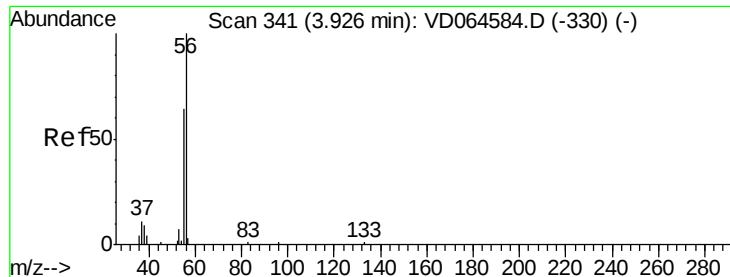


#12

1,1-Dichloroethene  
 Concen: 47.525 ug/l  
 RT: 4.06 min Scan# 364  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Tgt Ion: 96 Resp: 149494  
 Ion Ratio Lower Upper  
 96 100  
 61 161.2 129.4 194.0  
 98 61.8 51.4 77.0





#13

Acrolein

Concen: 82.418 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

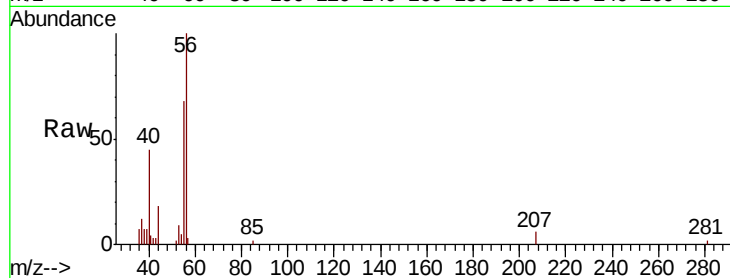
ClientSampleId :

Tot Ion: 56 Resp: 20754

Ion Ratio Lower Upper

56 100

55 64.8 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.93

8000

6000

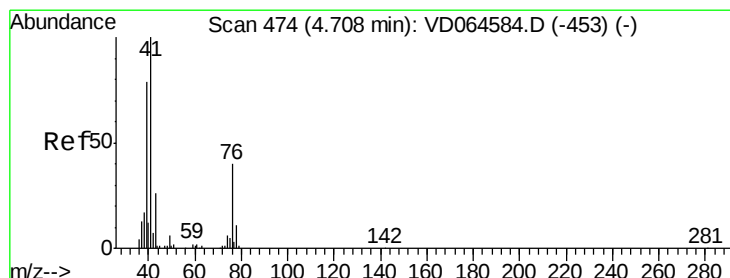
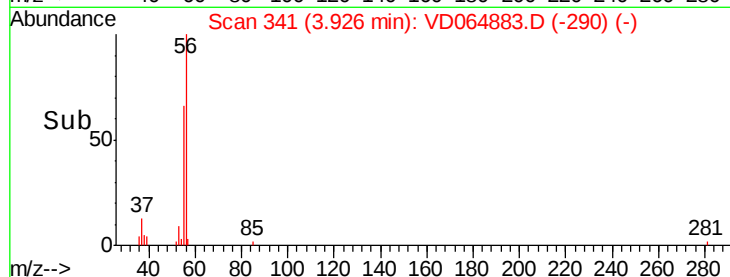
4000

2000

0

3.85 3.90 3.95 4.00

Time-->



#14

Allyl chloride

Concen: 49.845 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

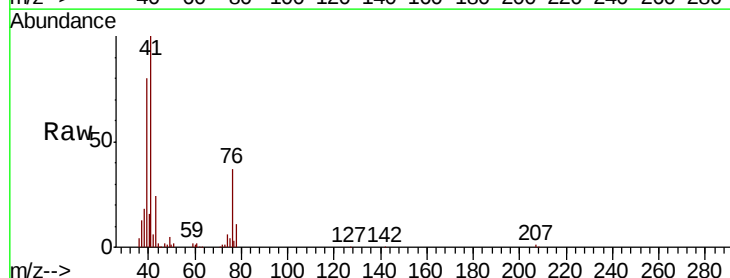
Tgt Ion: 41 Resp: 244458

Ion Ratio Lower Upper

41 100

39 79.6 62.3 93.5

76 37.1 29.7 44.5



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

4.71

80000

60000

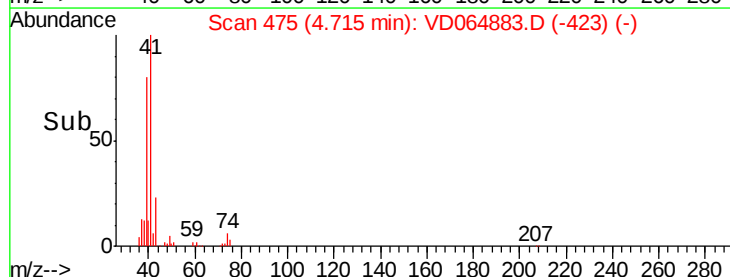
40000

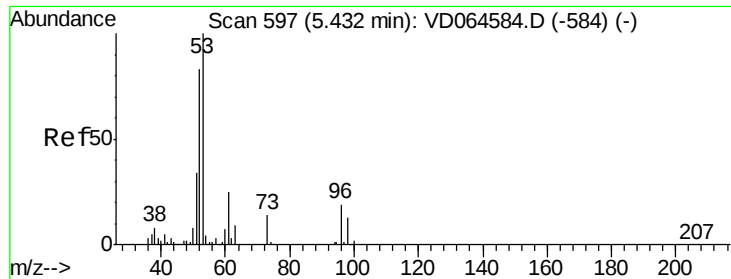
20000

0

4.50 4.60 4.70 4.80

Time-->





#15

Acrylonitrile

Concen: 191.850 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

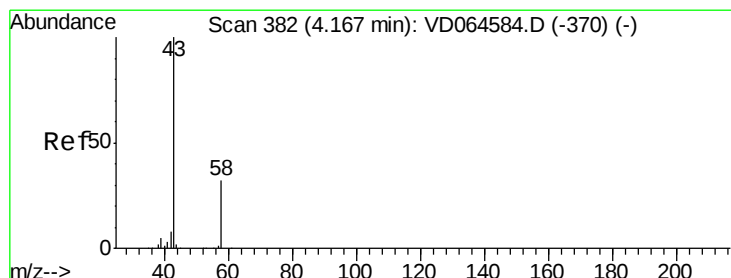
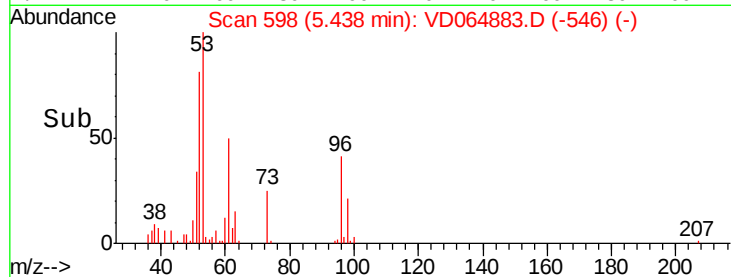
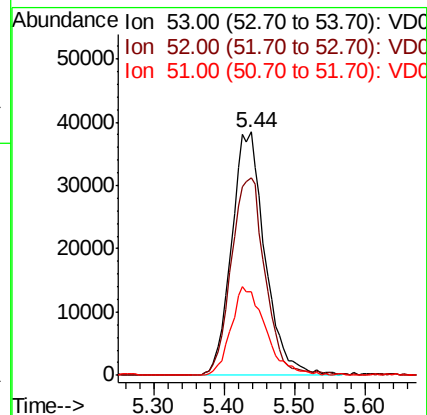
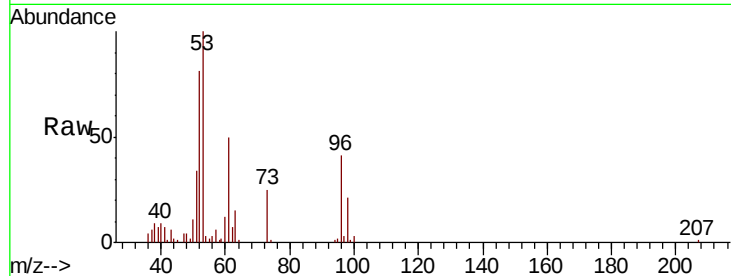
Tot Ion: 53 Resp: 126601

Ion Ratio Lower Upper

53 100

52 82.6 66.2 99.2

51 37.6 30.1 45.1



#16

Acetone

Concen: 238.431 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064883.D

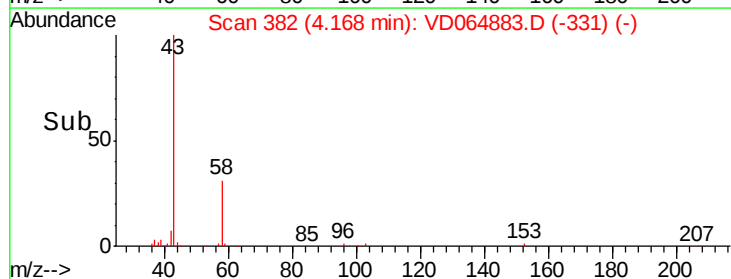
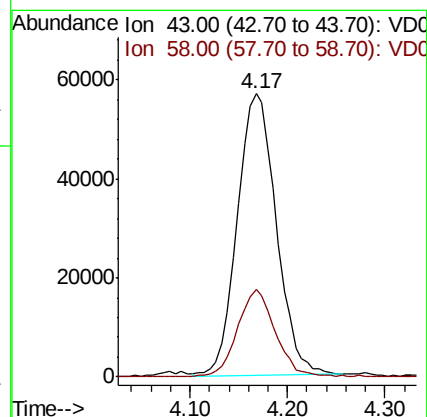
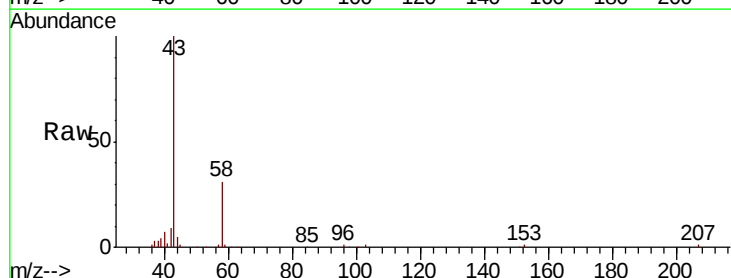
Acq: 20 Jan 2020 11:46

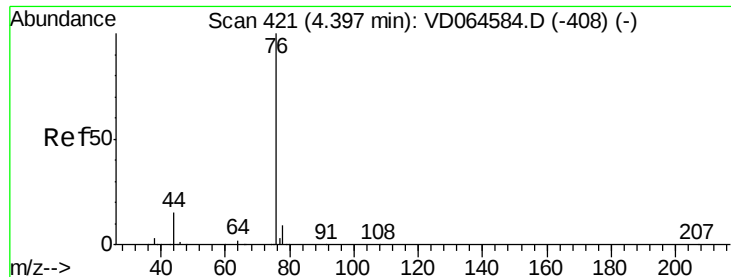
Tgt Ion: 43 Resp: 159040

Ion Ratio Lower Upper

43 100

58 31.3 25.8 38.6

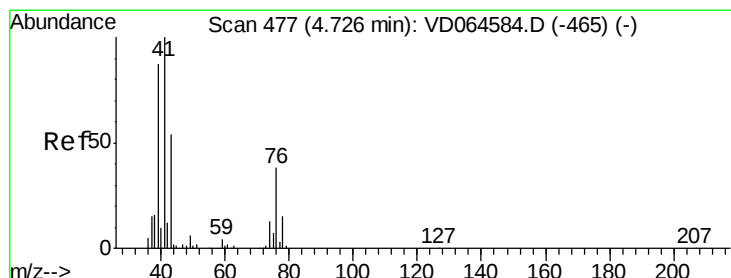
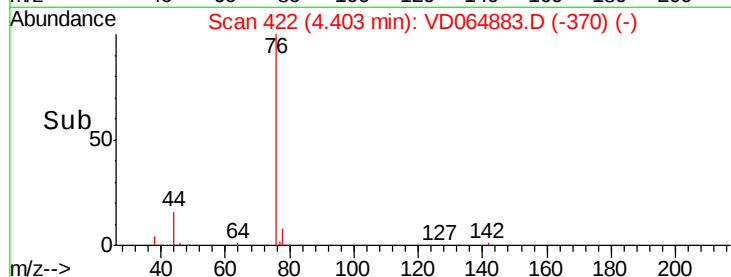
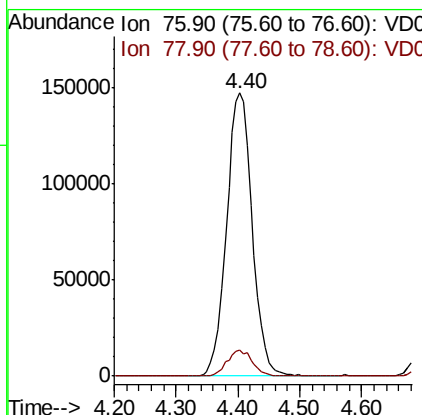
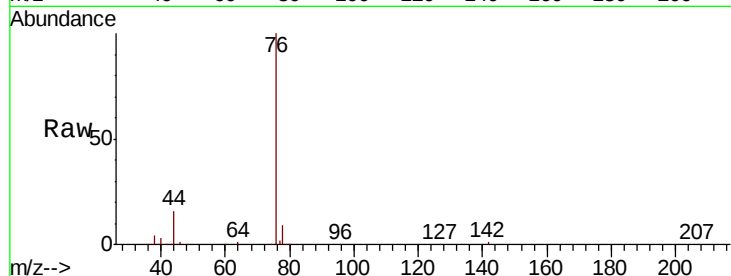




#17  
Carbon Disulfide  
Concen: 41.737 ug/l  
RT: 4.40 min Scan# 422  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

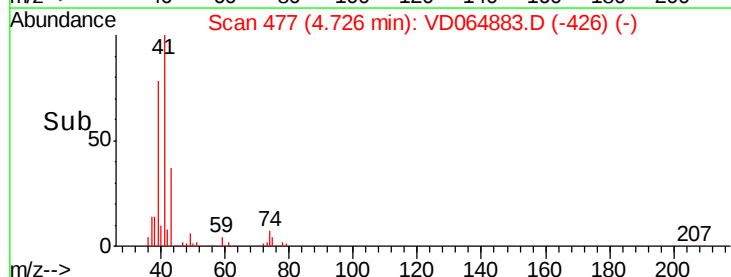
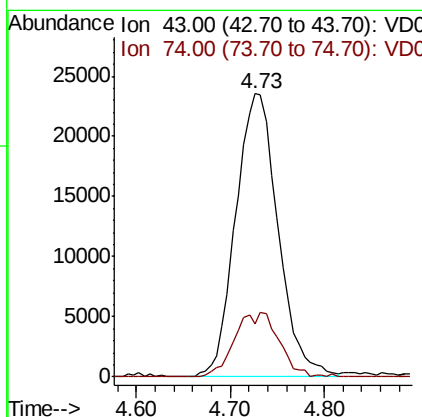
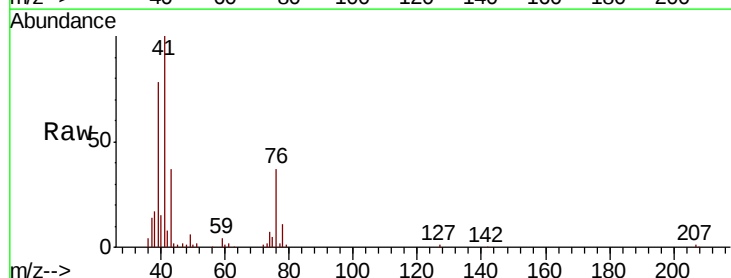
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 76 Resp: 424511  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.3 10.9



#18  
Methyl Acetate  
Concen: 41.543 ug/l  
RT: 4.73 min Scan# 477  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 43 Resp: 73738  
Ion Ratio Lower Upper  
43 100  
74 12.2 19.2 28.8#

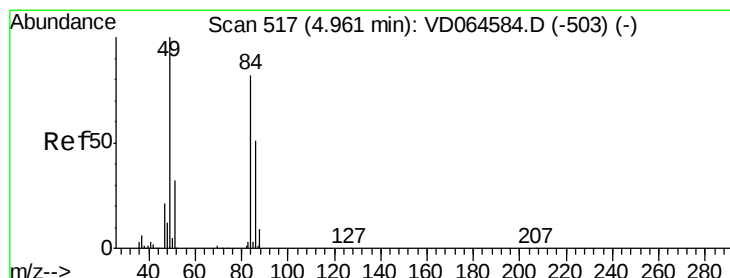
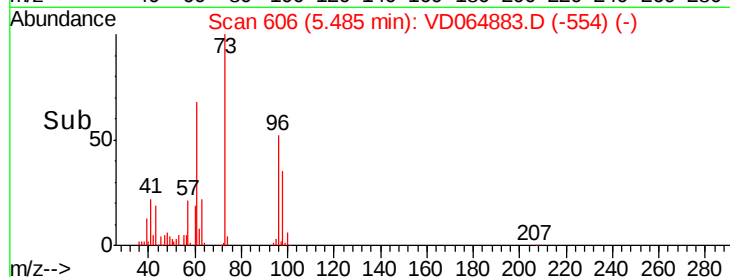
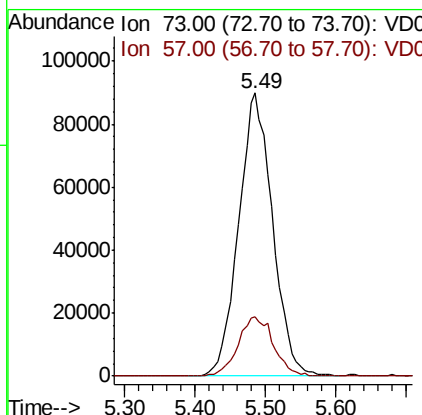
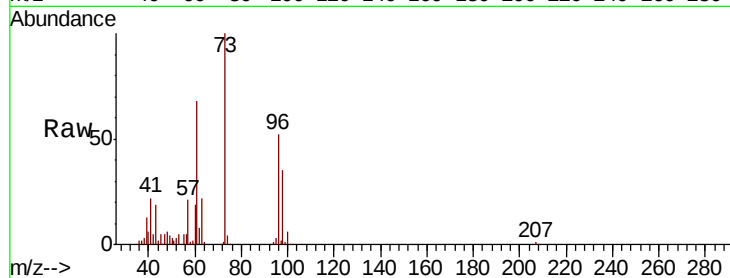




#19  
Methvl tert-butvl Ether  
Concen: 43.024 ug/l  
RT: 5.49 min Scan# 606  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

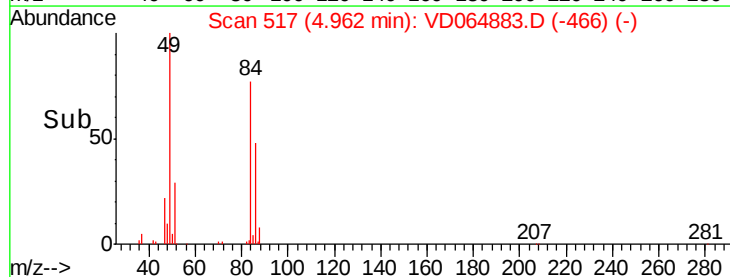
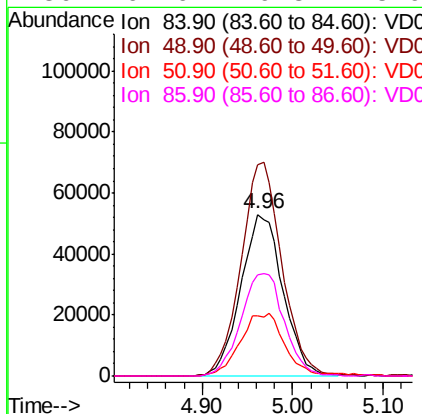
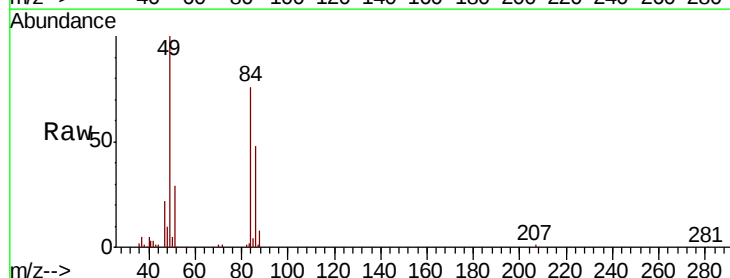
Instrument :  
MSVOA\_D  
ClientSampled :

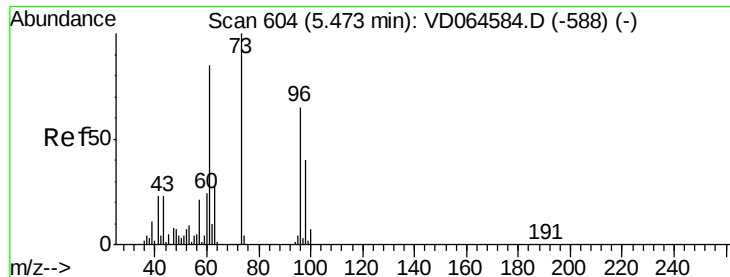
Tot Ion: 73 Resp: 300599  
Ion Ratio Lower Upper  
73 100  
57 21.1 18.6 27.8



#20  
Methylene Chloride  
Concen: 53.247 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 84 Resp: 170668  
Ion Ratio Lower Upper  
84 100  
49 130.4 97.2 145.8  
51 37.5 31.4 47.0  
86 62.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 48.924 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampled :

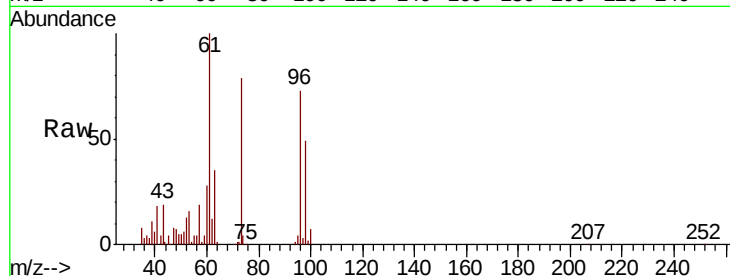
Tot Ion: 96 Resp: 175263

Ion Ratio Lower Upper

96 100

61 137.2 104.7 157.1

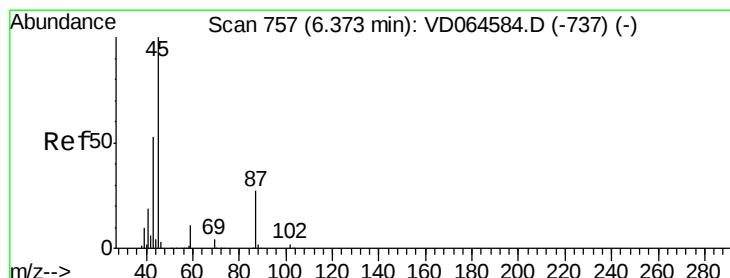
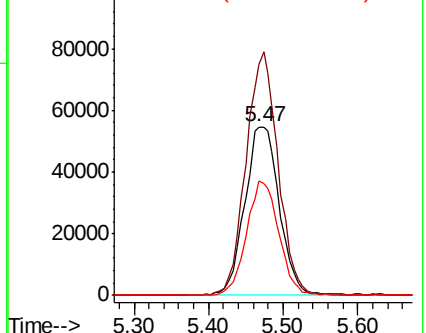
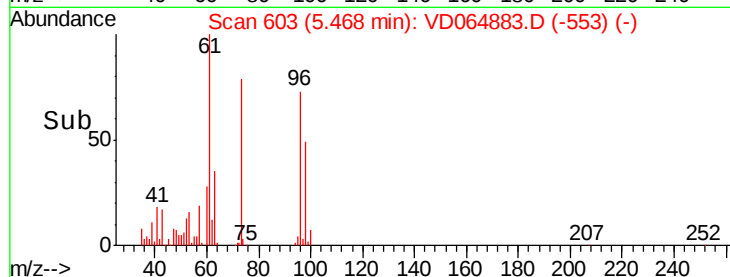
98 67.7 49.4 74.2



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 50.168 ug/l

RT: 6.37 min Scan# 757

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Tgt Ion: 45 Resp: 490754

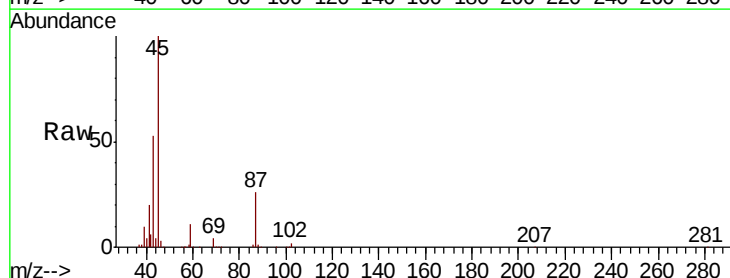
Ion Ratio Lower Upper

45 100

43 52.4 43.2 64.8

87 25.5 21.9 32.9

59 10.5 9.0 13.4

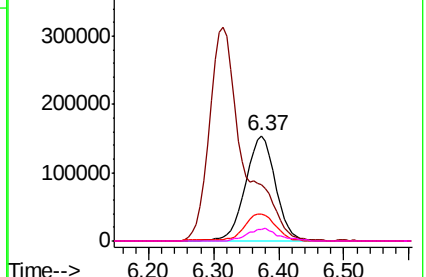
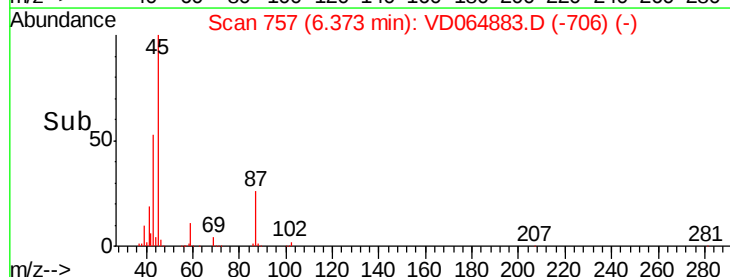


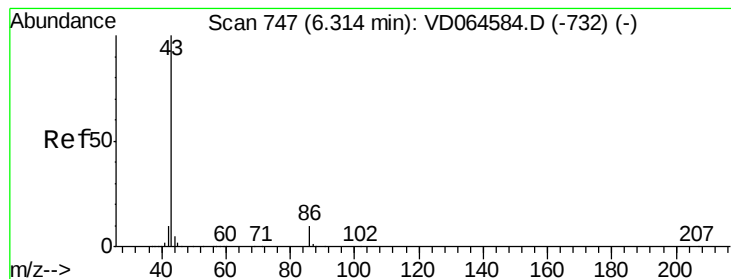
Abundance Ion 45.00 (44.70 to 45.70): VDC

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: 203.614 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

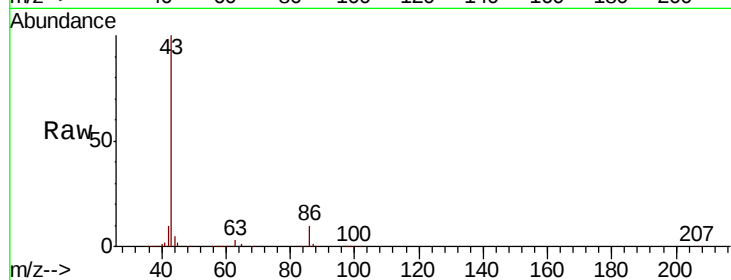
ClientSampleId :

Tot Ion: 43 Resp: 1129869

Ion Ratio Lower Upper

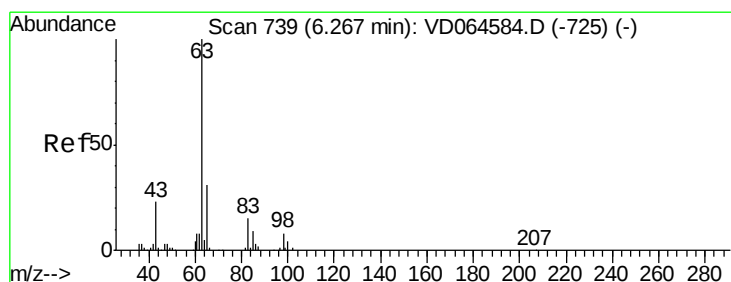
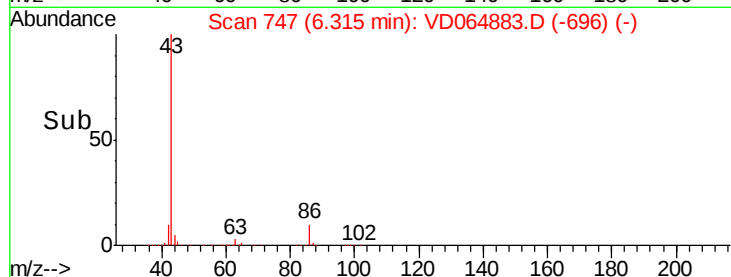
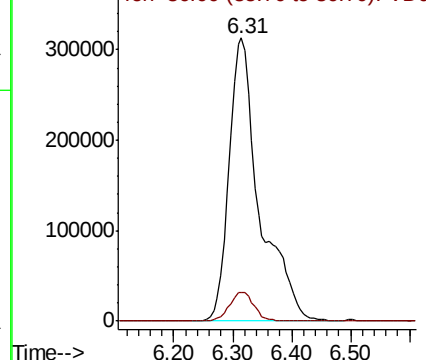
43 100

86 10.2 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 52.751 ug/l

RT: 6.27 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

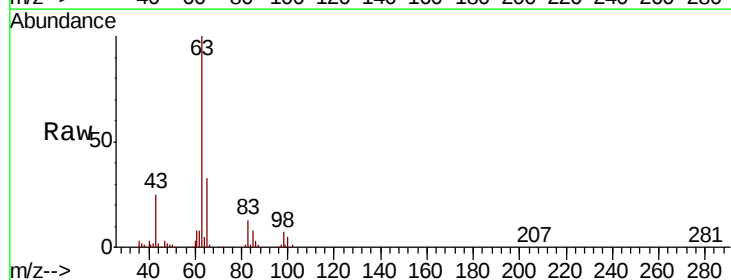
Tgt Ion: 63 Resp: 309782

Ion Ratio Lower Upper

63 100

98 7.2 4.1 12.3

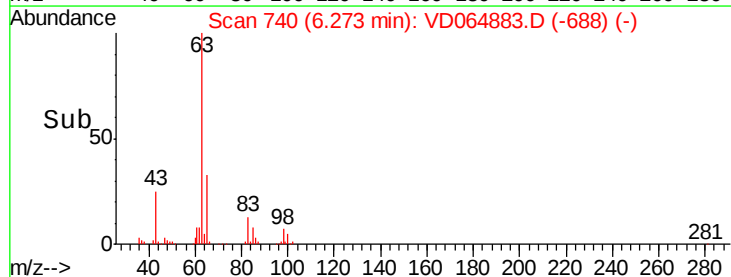
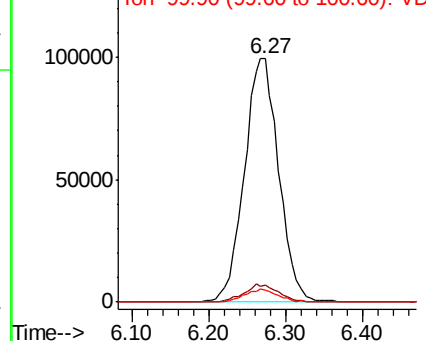
100 4.6 2.2 6.6

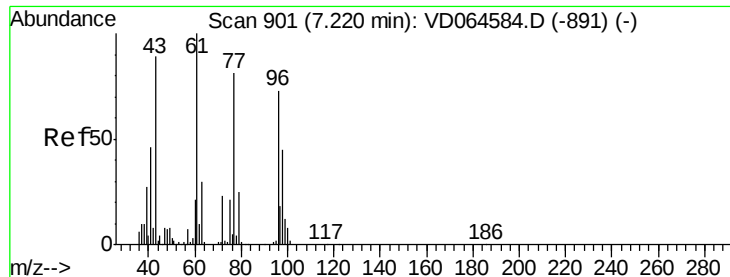


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

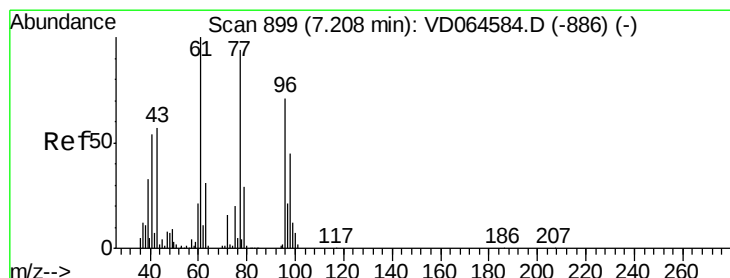
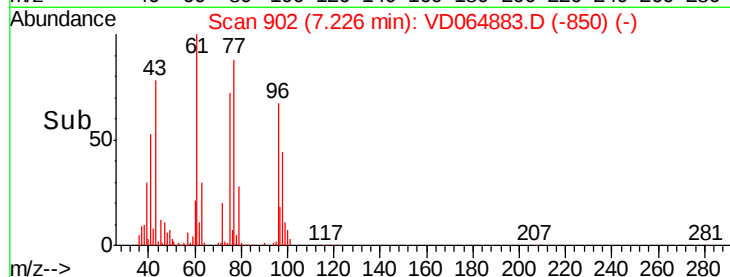
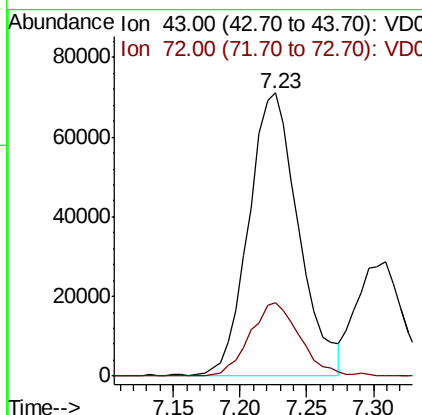
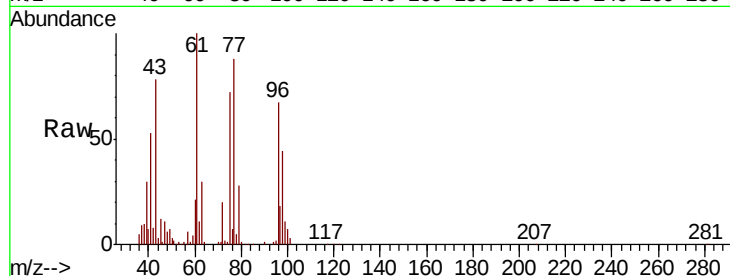




#25  
2-Butanone  
Concen: 211.046 ug/l  
RT: 7.23 min Scan# 902  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

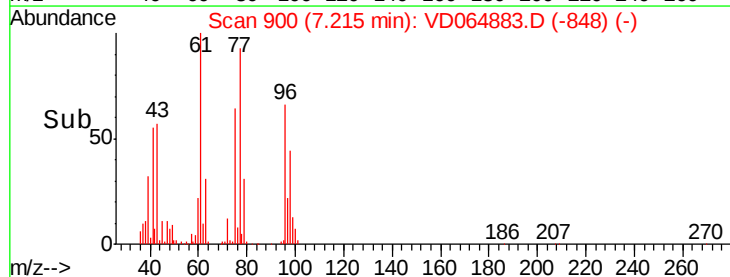
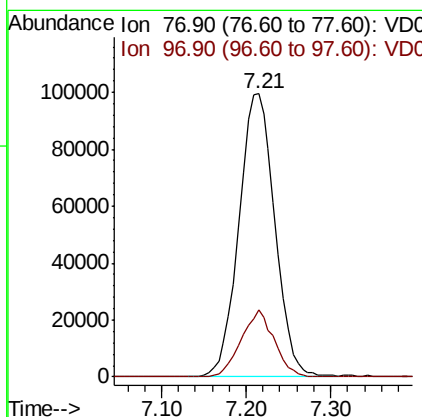
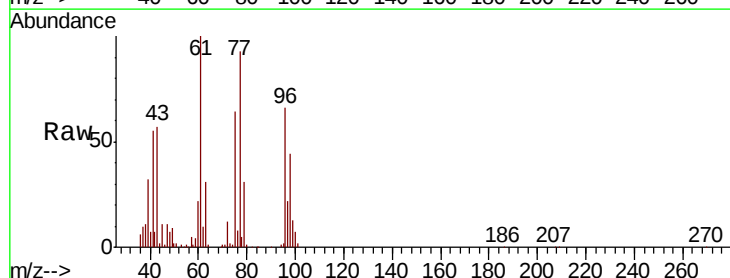
Instrument :  
MSVOA\_D  
ClientSampled :

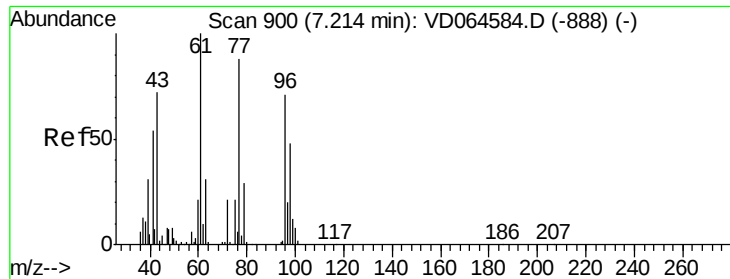
Tot Ion: 43 Resp: 182896  
Ion Ratio Lower Upper  
43 100  
72 25.8 20.7 31.1



#26  
2,2-Dichloropropane  
Concen: 53.801 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 77 Resp: 293757  
Ion Ratio Lower Upper  
77 100  
97 21.8 11.2 33.6



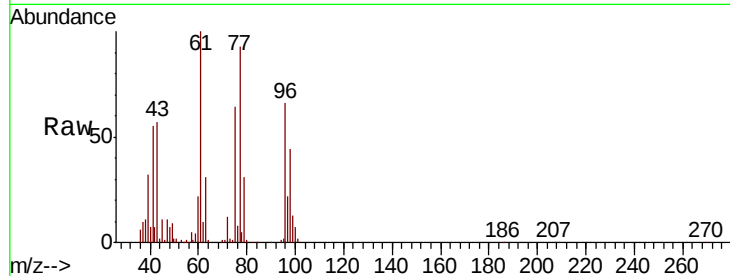


#27

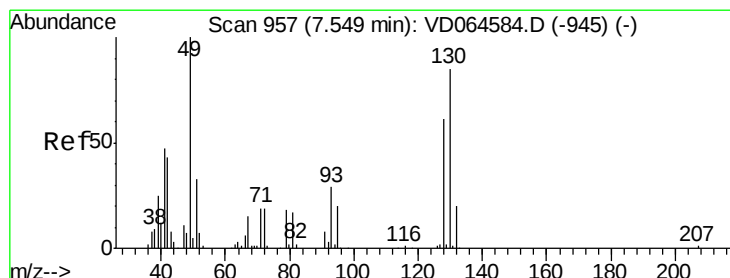
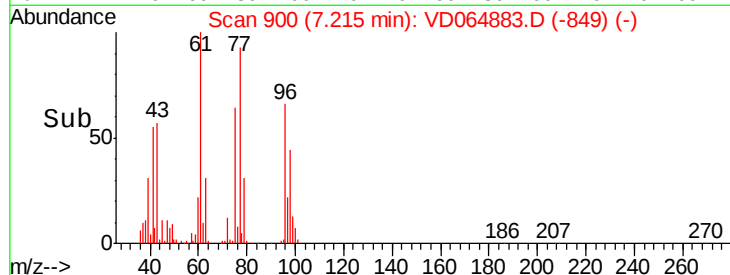
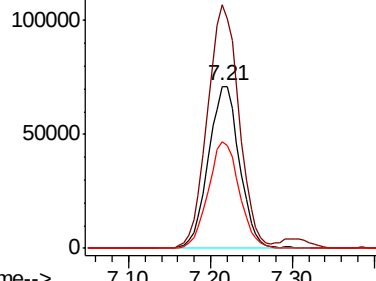
cis-1,2-Dichloroethene  
Concen: 48.734 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 96 Resp: 188413  
Ion Ratio Lower Upper  
96 100  
61 152.3 0.0 282.6  
98 66.4 0.0 130.8



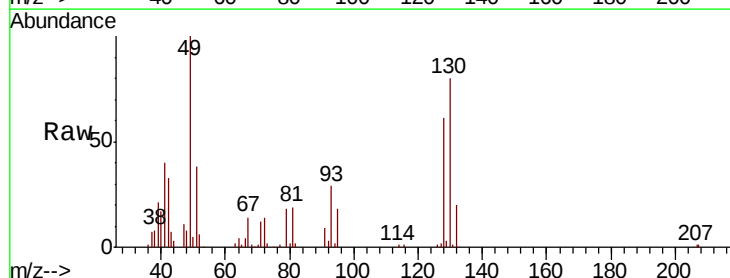
Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC



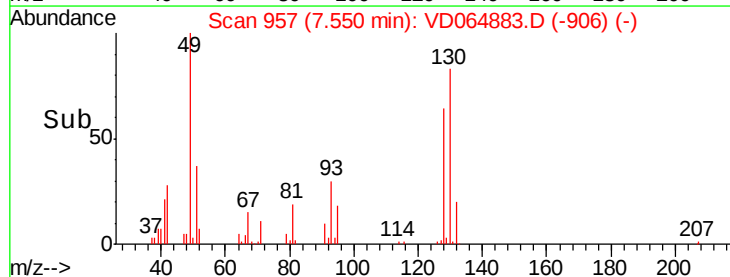
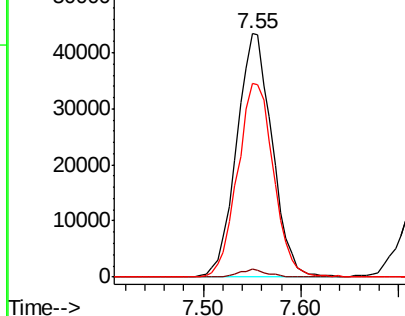
#28

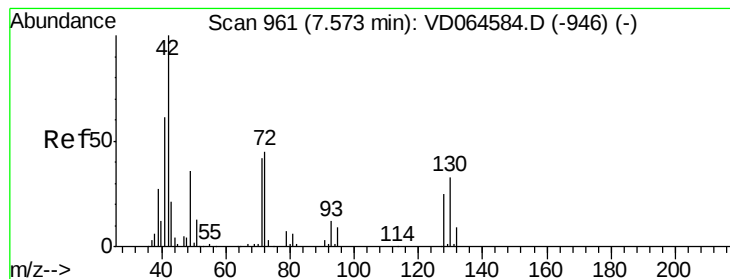
Bromochloromethane  
Concen: 47.982 ug/l  
RT: 7.55 min Scan# 957  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 49 Resp: 109535  
Ion Ratio Lower Upper  
49 100  
129 2.5 0.0 4.8  
130 80.6 65.0 97.6



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





#29

Tetrahydrofuran

Concen: 184.782 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

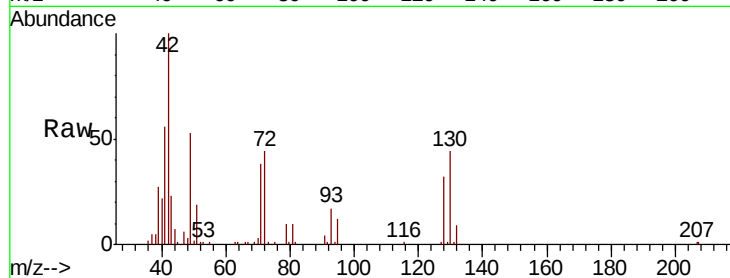
Tot Ion: 42 Resp: 99584

Ion Ratio Lower Upper

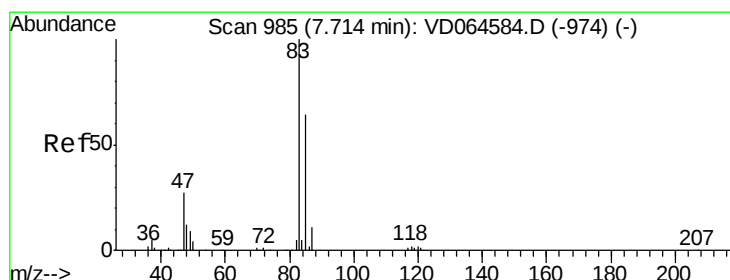
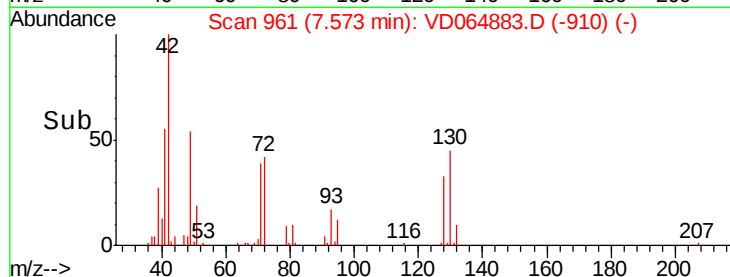
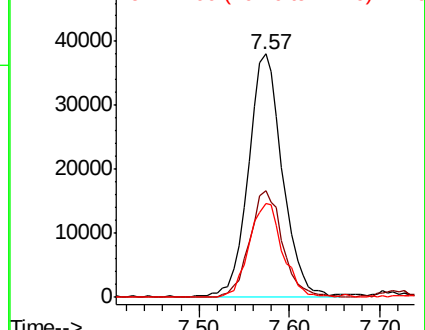
42 100

72 42.3 35.0 52.4

71 37.9 32.9 49.3



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: 51.886 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064883.D

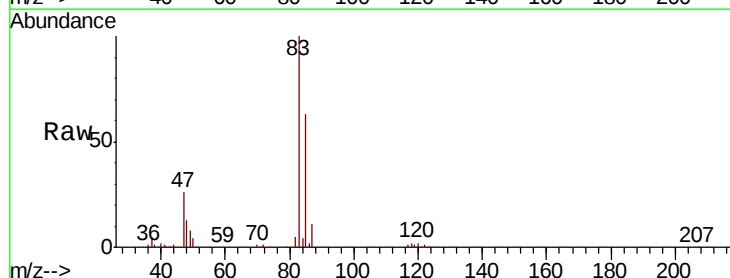
Acq: 20 Jan 2020 11:46

Tgt Ion: 83 Resp: 319684

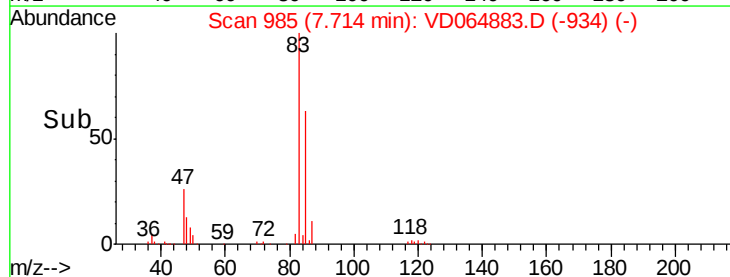
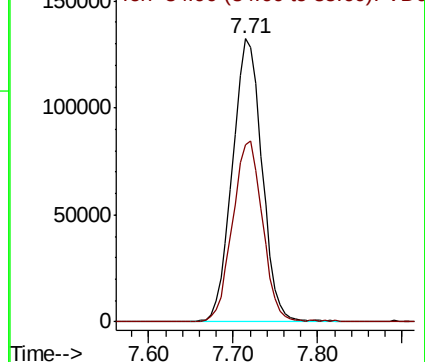
Ion Ratio Lower Upper

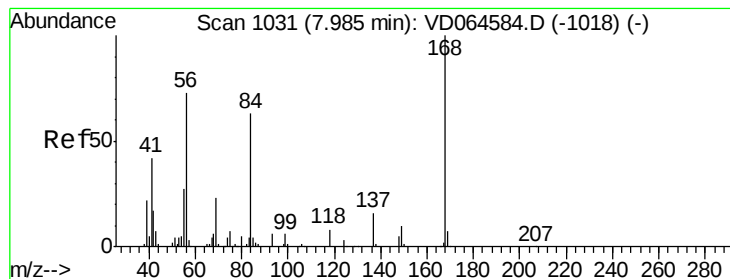
83 100

85 62.7 51.1 76.7



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





#31

Cyclohexane

Concen: 44.732 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :  
MSVOA\_D  
ClientSampled :

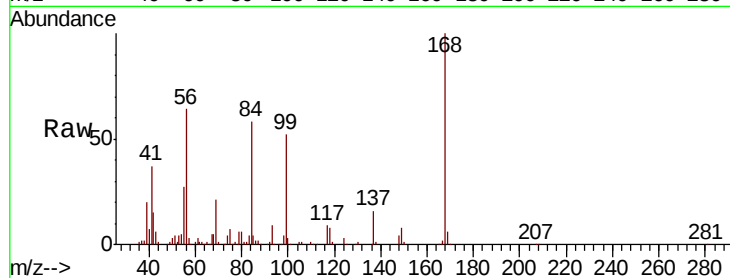
Tot Ion: 56 Resp: 262954

Ion Ratio Lower Upper

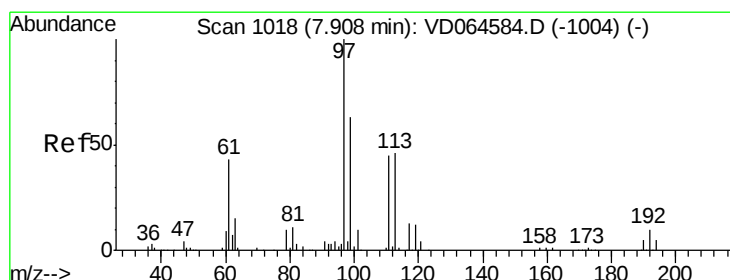
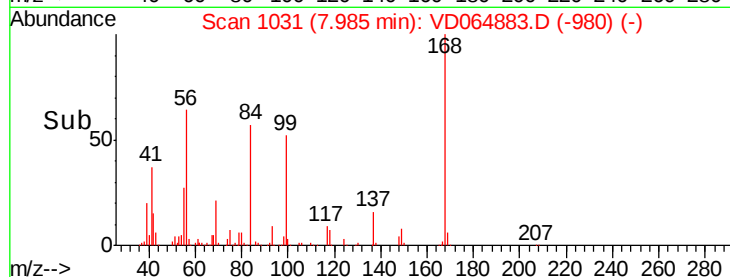
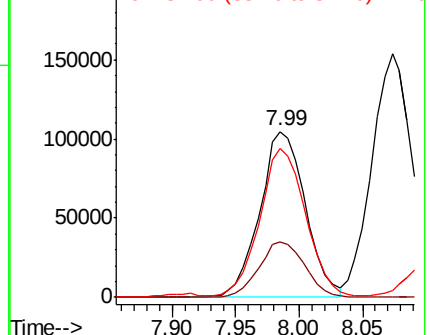
56 100

69 33.2 24.7 37.1

84 87.5 69.4 104.2



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



#32

1,1,1-Trichloroethane

Concen: 52.246 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

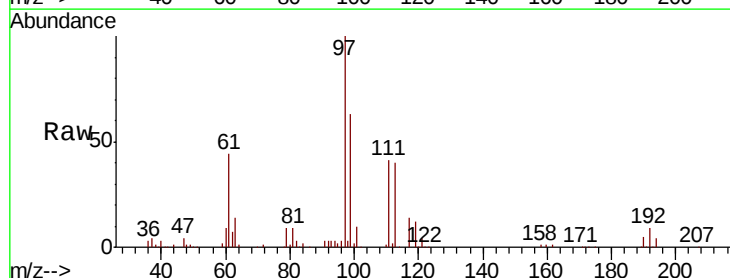
Tgt Ion: 97 Resp: 302353

Ion Ratio Lower Upper

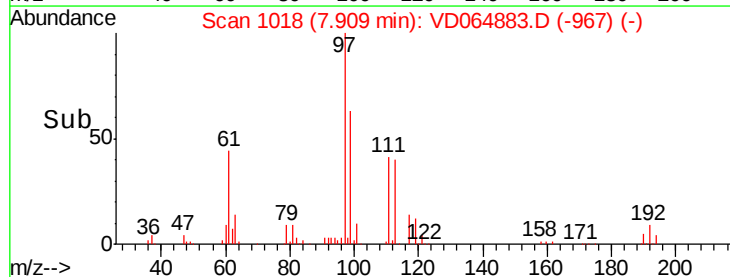
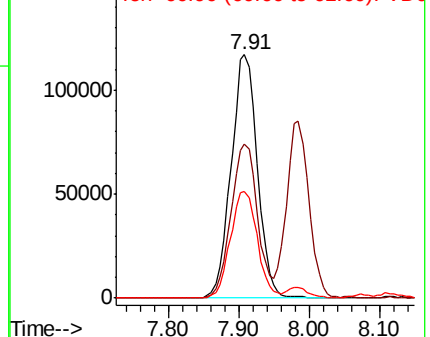
97 100

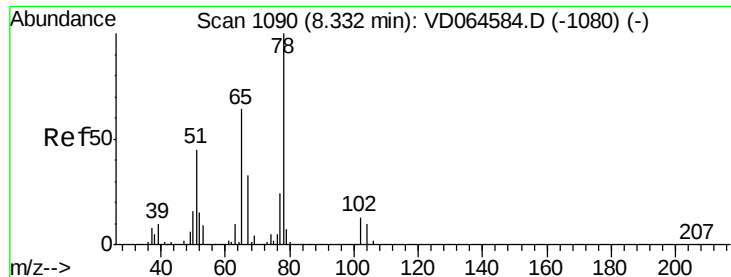
99 64.3 51.0 76.6

61 45.1 35.4 53.0



Abundance Ion 96.90 (96.60 to 97.60): VDC  
Ion 98.90 (98.60 to 99.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 44.779 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

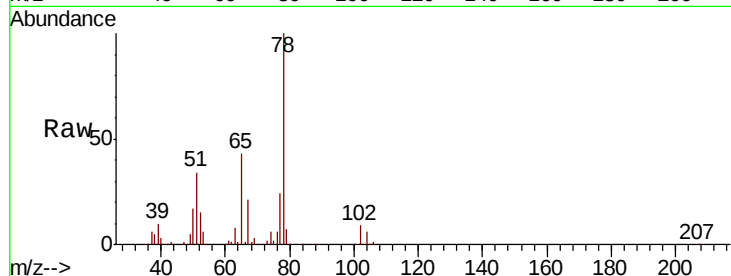
ClientSampleId :

Tot Ion: 65 Resp: 141176

Ion Ratio Lower Upper

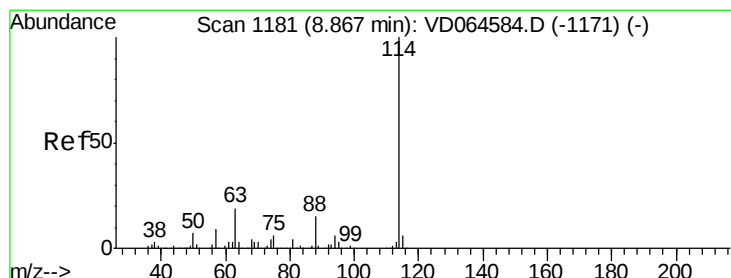
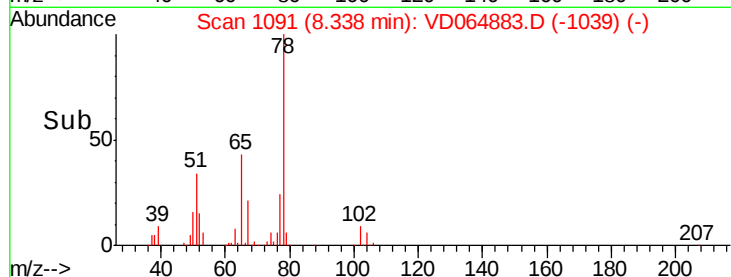
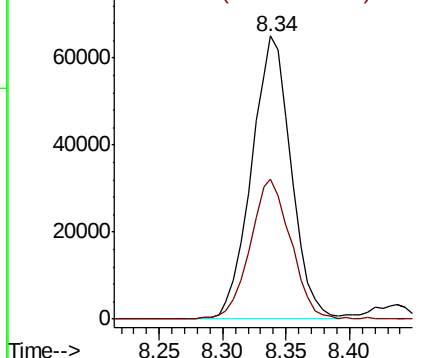
65 100

67 50.8 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): V

Ion 66.90 (66.60 to 67.60): V



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

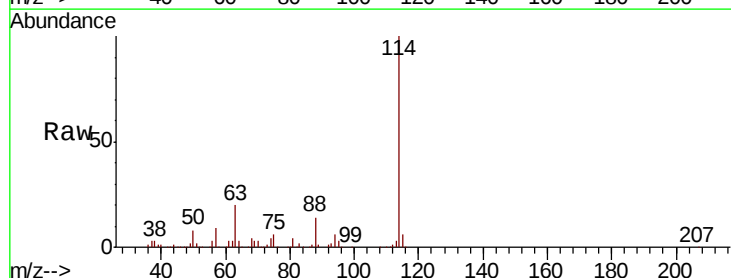
Tgt Ion:114 Resp: 509941

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.0

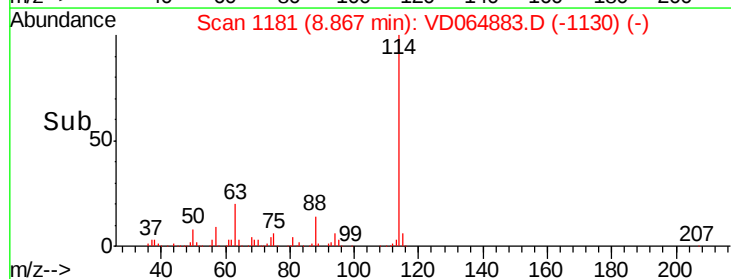
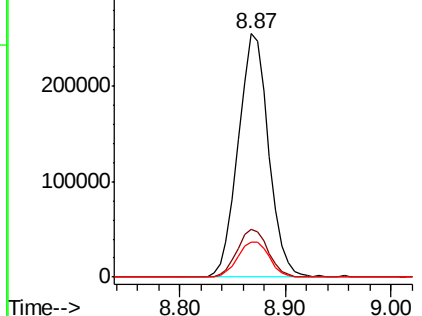
88 14.2 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

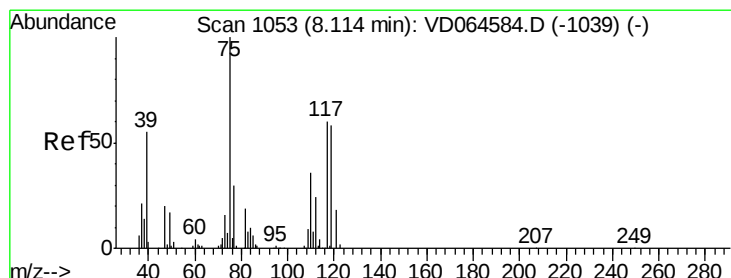
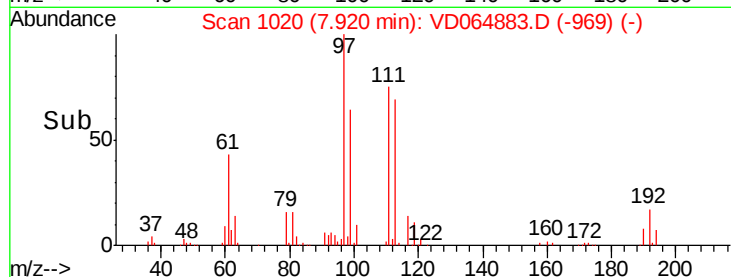
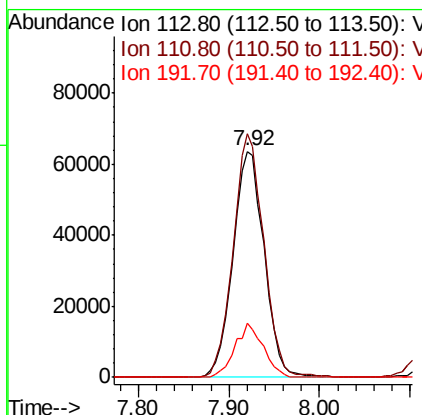
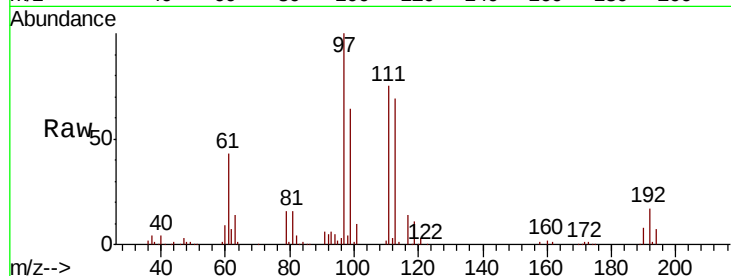




#35  
 Dibromofluoromethane  
 Concen: 48.594 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

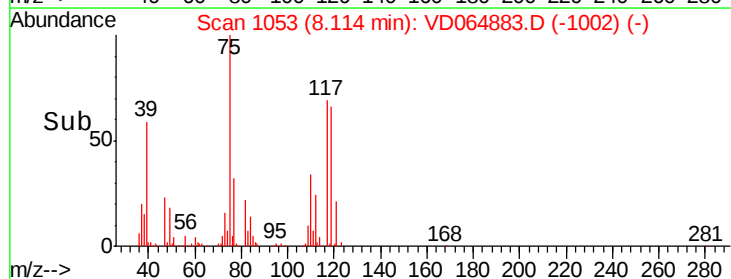
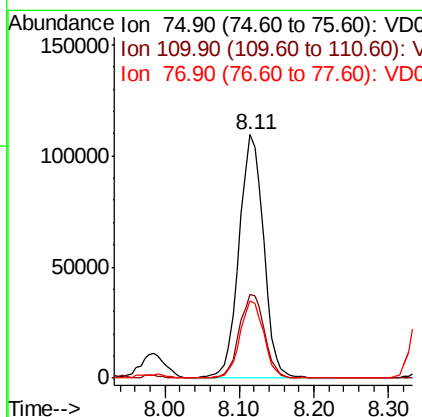
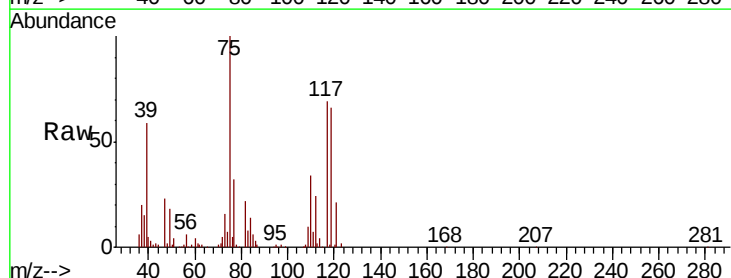
Instrument :  
 MSVOA\_D  
 ClientSampleId :

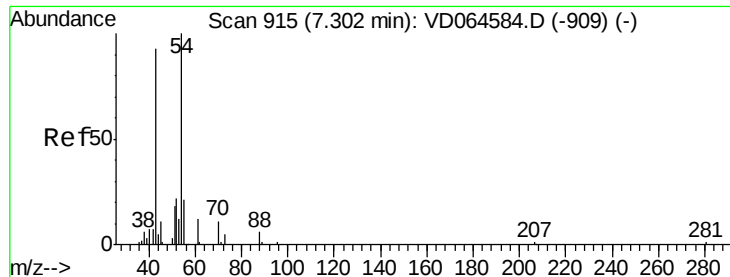
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.8 | 80.6  | 121.0 |
| 192     | 21.8  | 17.9  | 26.9  |



#36  
 1,1-Dichloropropene  
 Concen: 51.154 ug/l  
 RT: 8.11 min Scan# 1053  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.9  | 18.1  | 54.1  |
| 77      | 30.9  | 24.2  | 36.4  |

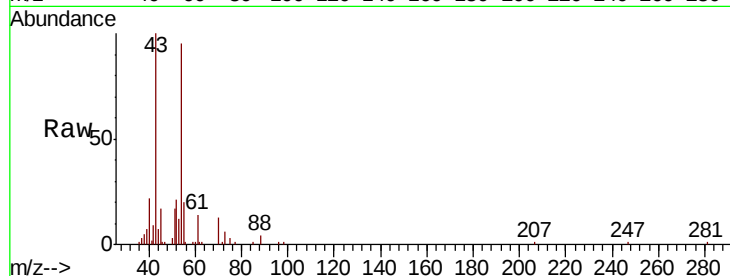




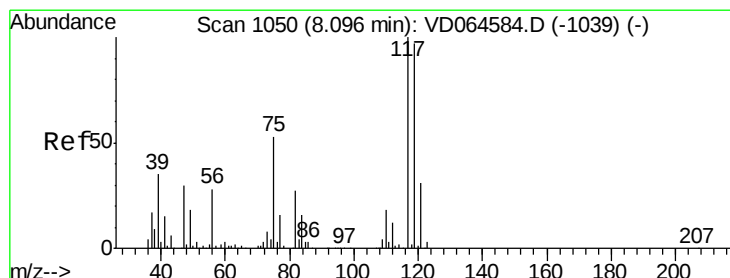
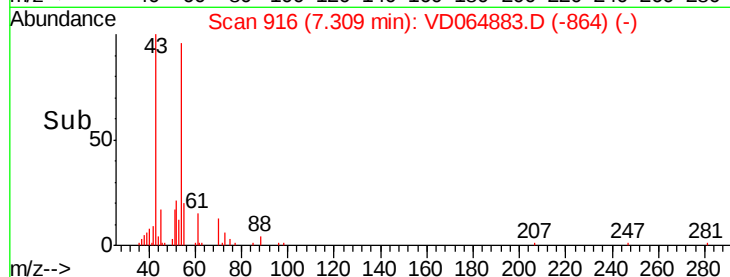
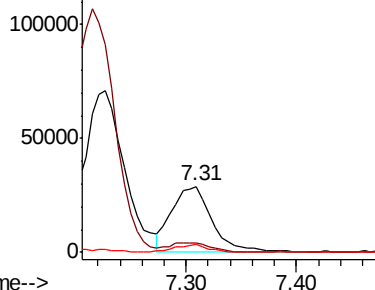
#37  
Ethyl Acetate  
Concen: 37.009 ug/l  
RT: 7.31 min Scan# 916  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Instrument :  
MSVOA\_D  
ClientSampleID :

Tot Ion: 43 Resp: 71360  
Ion Ratio Lower Upper  
43 100  
61 14.8 10.3 15.5  
70 10.7 7.6 11.4

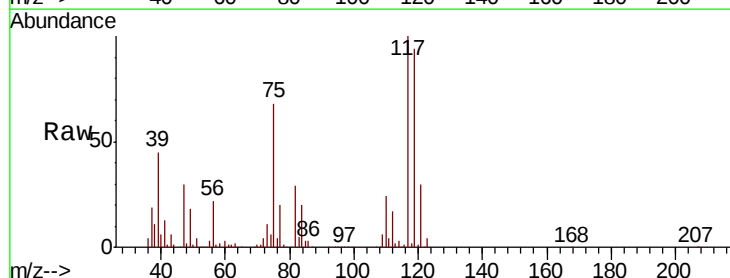


Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC

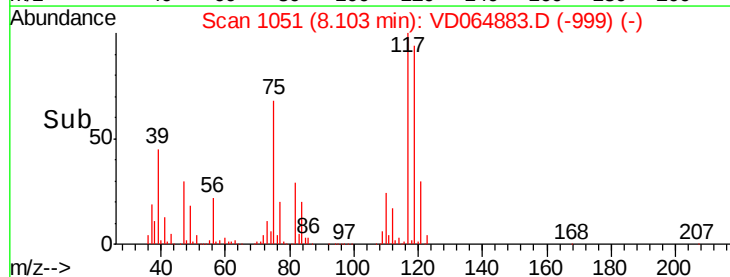
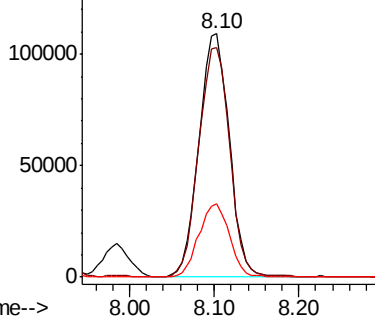


#38  
Carbon Tetrachloride  
Concen: 51.861 ug/l  
RT: 8.10 min Scan# 1051  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 117 Resp: 271418  
Ion Ratio Lower Upper  
117 100  
119 94.2 77.3 115.9  
121 30.0 25.0 37.6



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

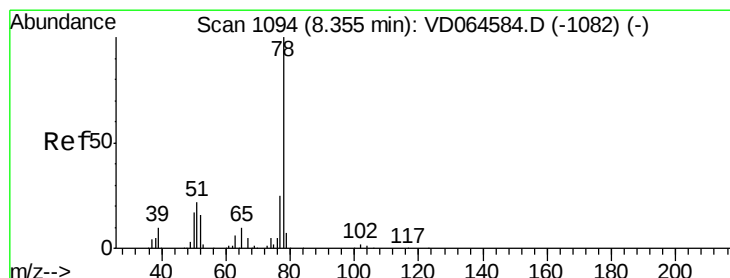
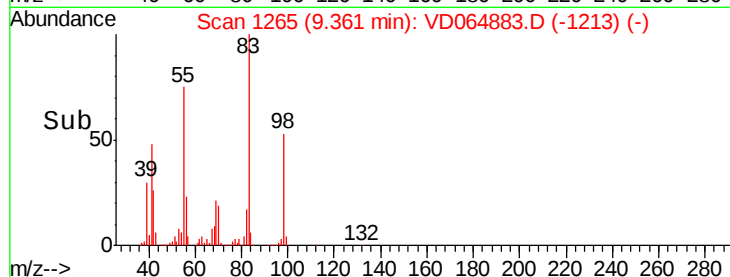
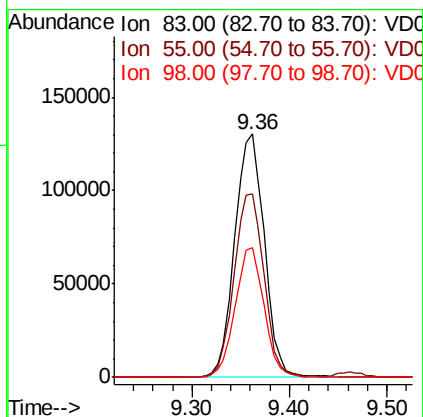
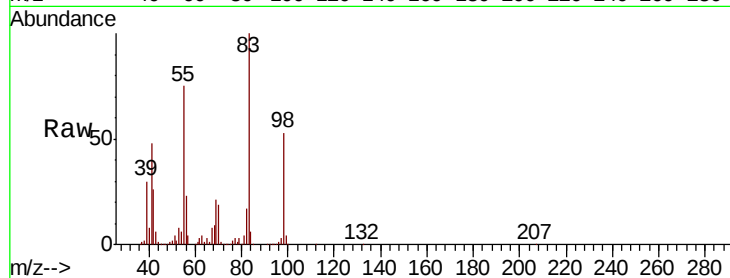




#39  
Methvlcvclohexane  
Concen: 46.435 ug/l  
RT: 9.36 min Scan# 1265  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

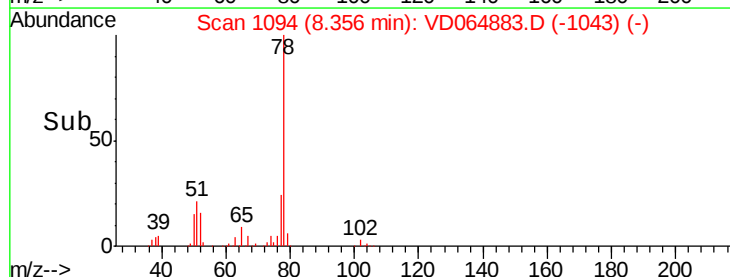
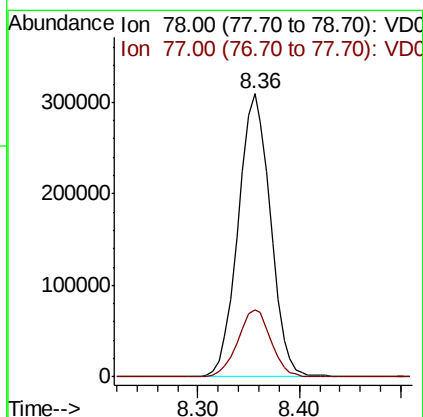
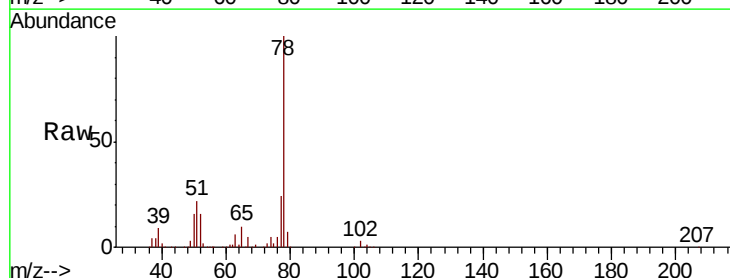
Instrument :  
MSVOA\_D  
ClientSampleId :

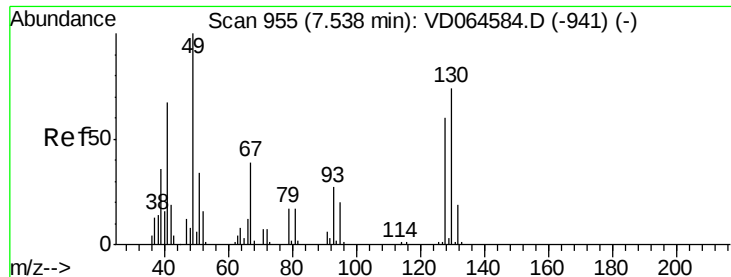
Tot Ion: 83 Resp: 276041  
Ion Ratio Lower Upper  
83 100  
55 75.2 57.8 86.6  
98 53.5 38.7 58.1



#40  
Benzene  
Concen: 51.150 ug/l  
RT: 8.36 min Scan# 1094  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 78 Resp: 685345  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.9 29.9





#41

Methacrylonitrile

Concen: 41.488 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 41 Resp: 46414

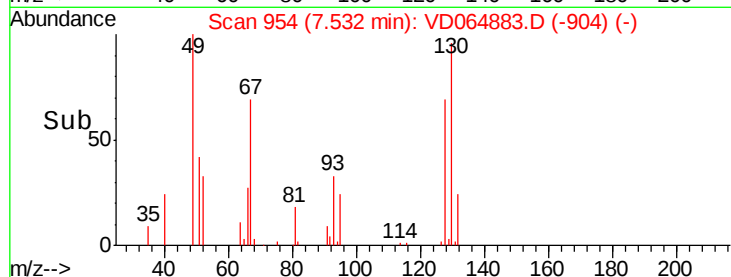
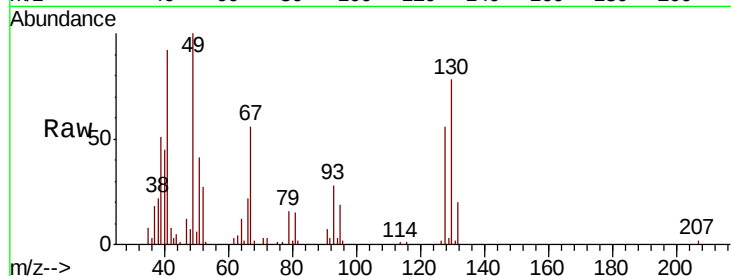
Ion Ratio Lower Upper

41 100

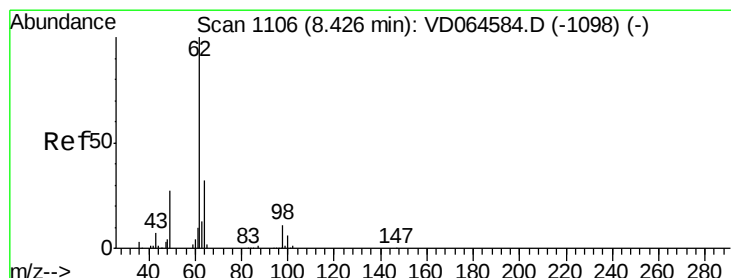
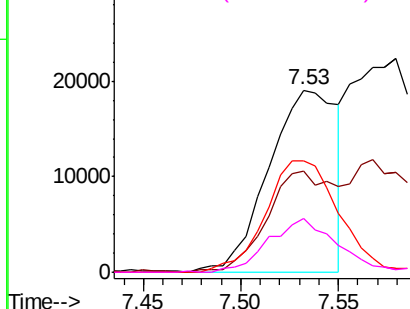
39 54.4 46.7 70.1

67 65.6 52.5 78.7

52 29.9 24.1 36.1



Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC  
Ion 67.00 (66.70 to 67.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 46.947 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD064883.D

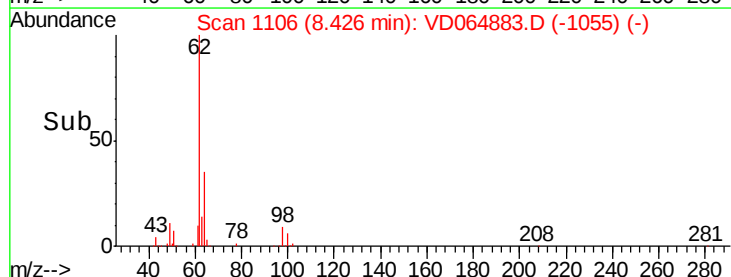
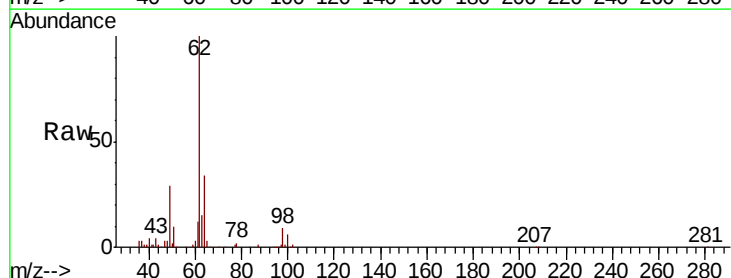
Acq: 20 Jan 2020 11:46

Tgt Ion: 62 Resp: 181775

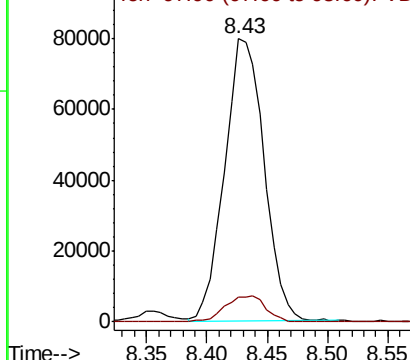
Ion Ratio Lower Upper

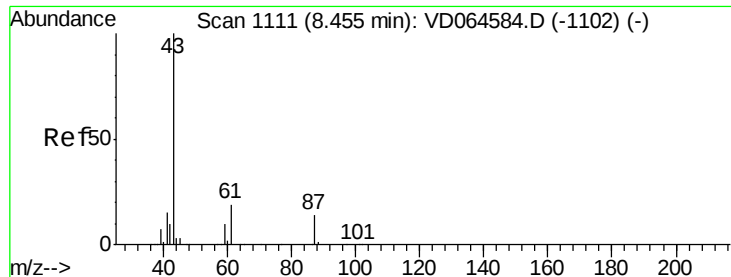
62 100

98 9.4 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 38.832 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

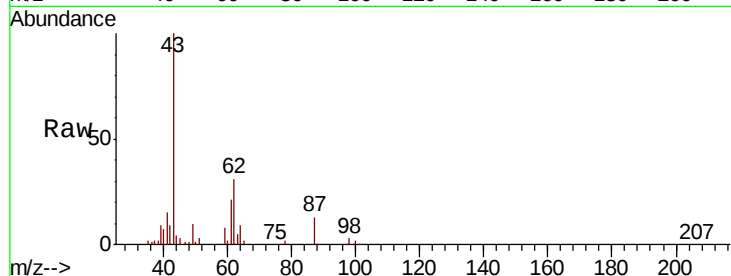
Tot Ion: 43 Resp: 149031

Ion Ratio Lower Upper

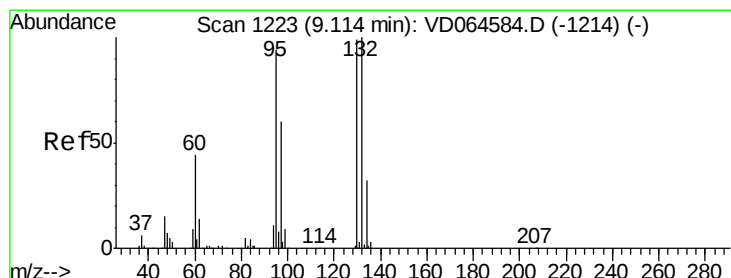
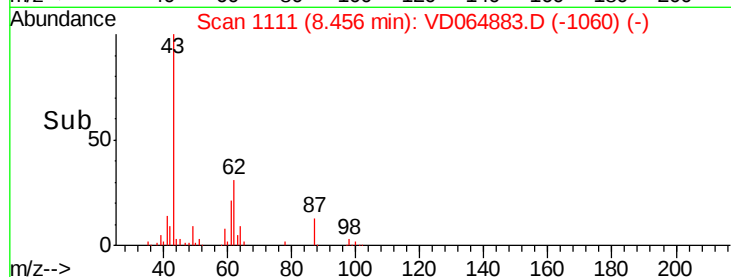
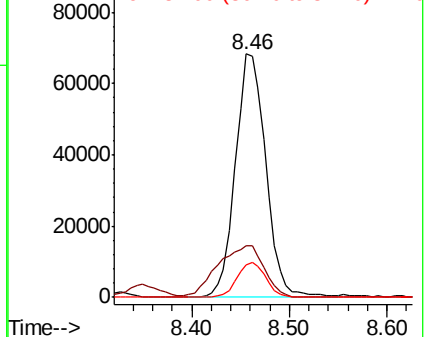
43 100

61 32.1 23.7 35.5

87 13.6 10.5 15.7



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: 49.461 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD064883.D

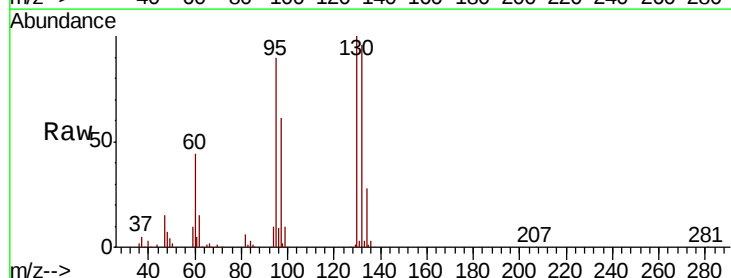
Acq: 20 Jan 2020 11:46

Tgt Ion:130 Resp: 194685

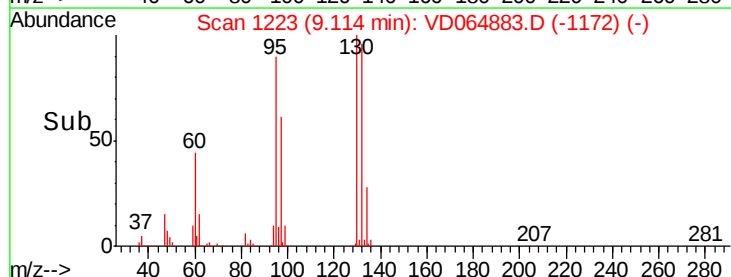
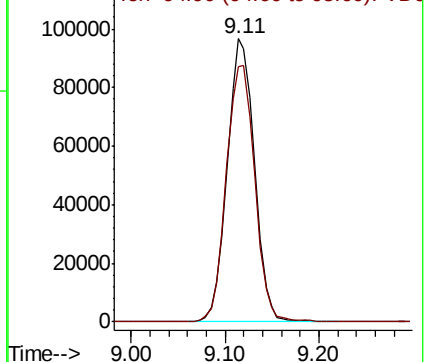
Ion Ratio Lower Upper

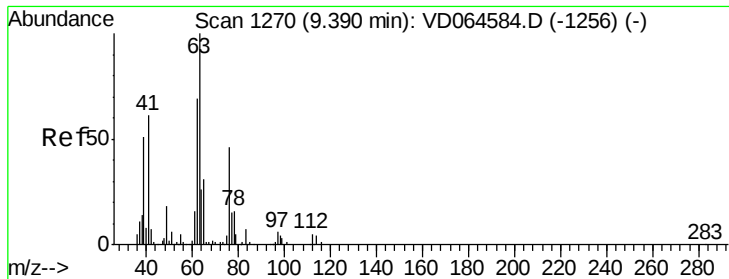
130 100

95 90.1 0.0 190.2



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

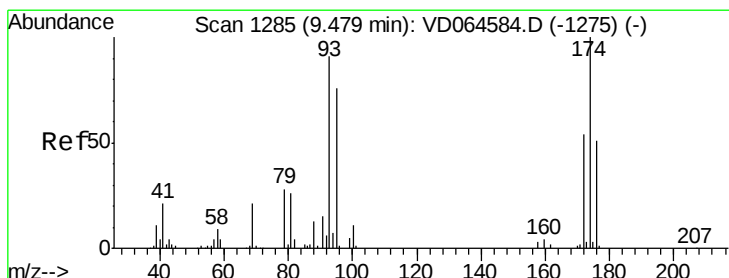
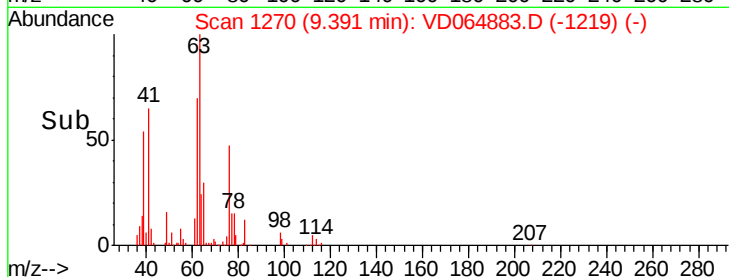
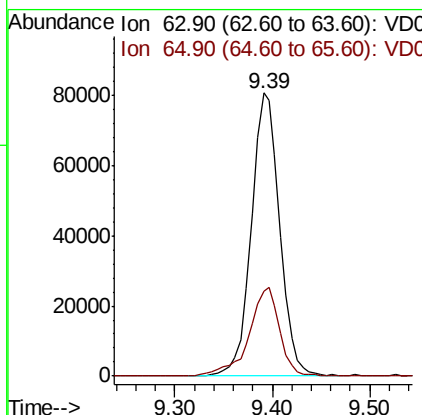
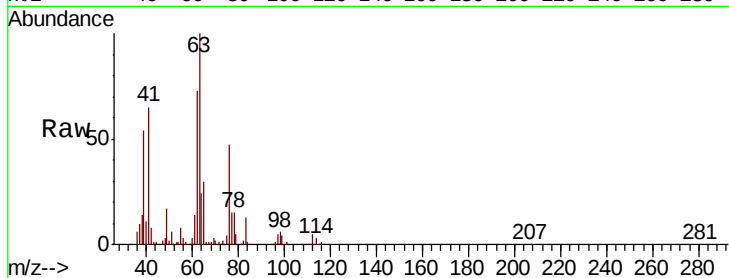




#45  
 1,2-Dichloropropane  
 Concen: 51.571 ug/l  
 RT: 9.39 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

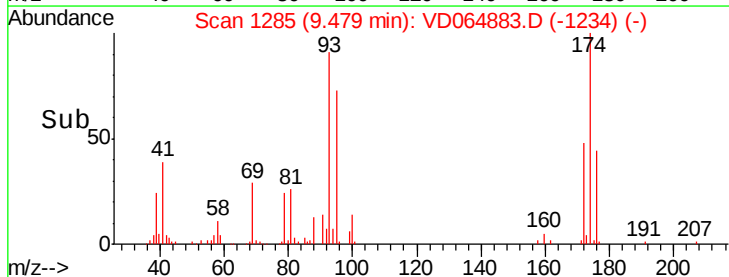
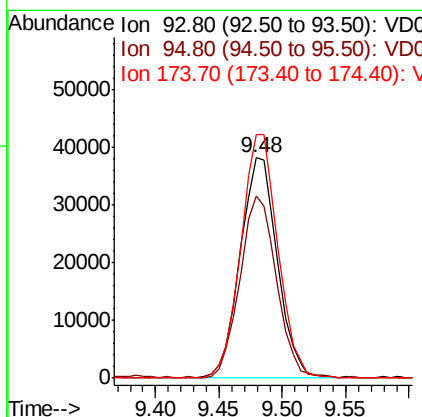
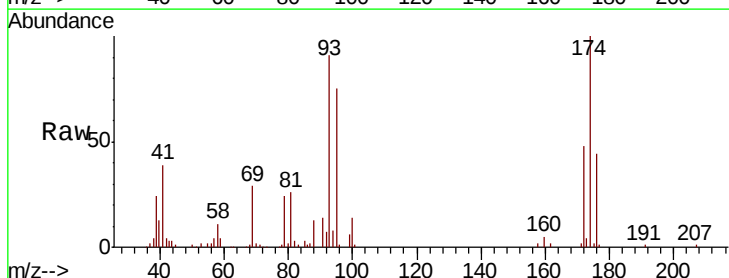
Instrument :  
 MSVOA\_D  
 ClientSampleId :

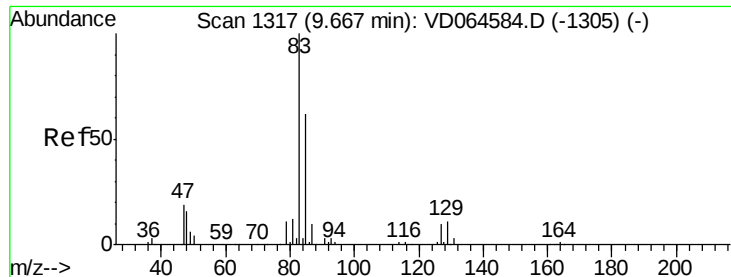
Tot Ion: 63 Resp: 164983  
 Ion Ratio Lower Upper  
 63 100  
 65 30.1 25.2 37.8



#46  
 Dibromomethane  
 Concen: 43.677 ug/l  
 RT: 9.48 min Scan# 1285  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Tgt Ion: 93 Resp: 77904  
 Ion Ratio Lower Upper  
 93 100  
 95 81.0 64.6 97.0  
 174 109.8 88.1 132.1





#47

Bromodichloromethane

Concen: 50.173 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

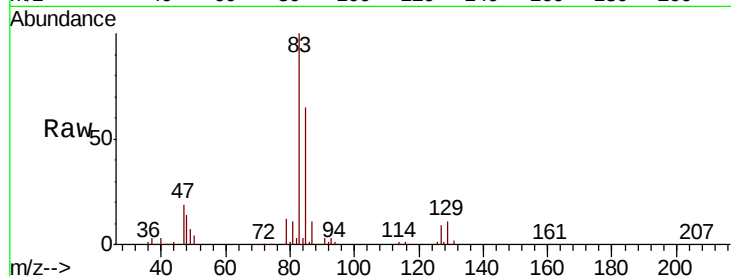
Tot Ion: 83 Resp: 238131

Ion Ratio Lower Upper

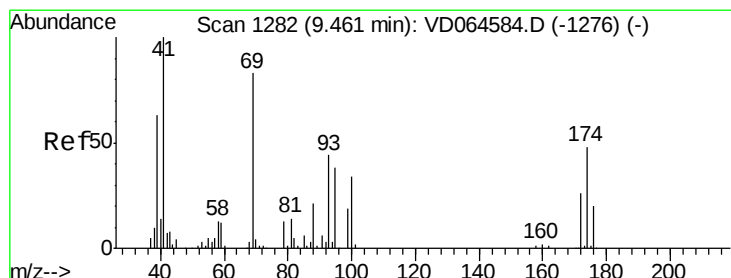
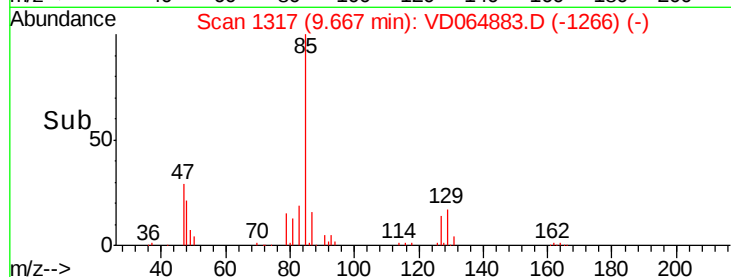
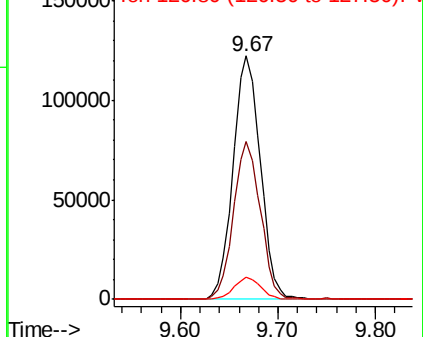
83 100

85 65.0 49.5 74.3

127 9.0 7.8 11.6



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: 38.700 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

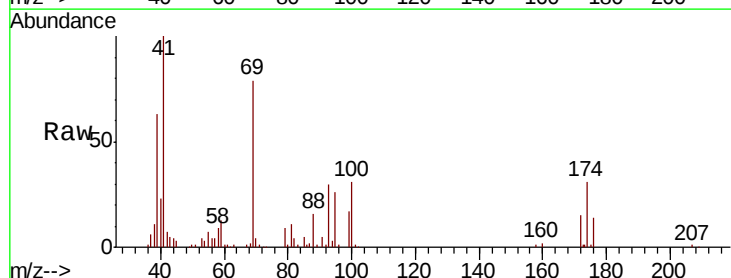
Tgt Ion: 41 Resp: 69934

Ion Ratio Lower Upper

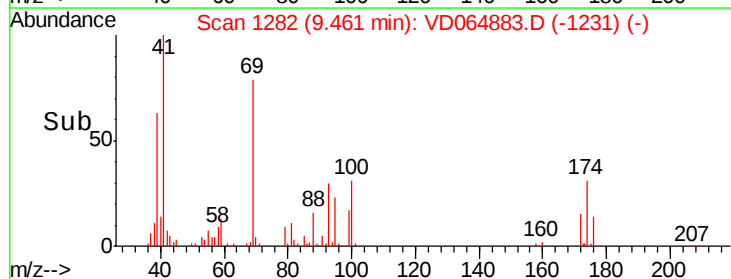
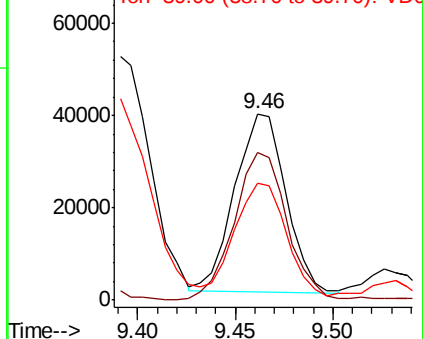
41 100

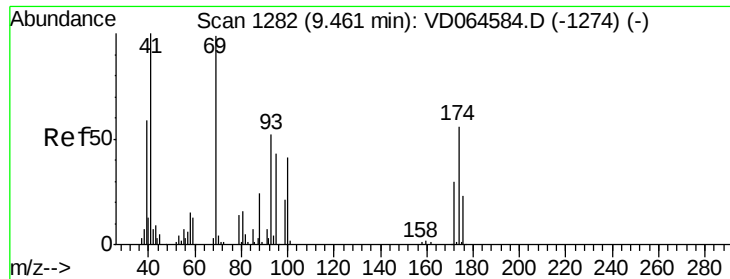
69 84.4 63.0 94.6

39 61.1 47.4 71.2



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

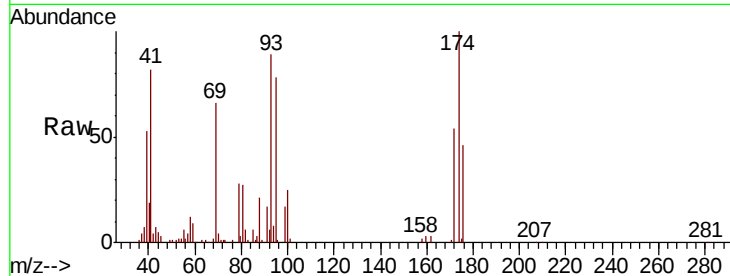




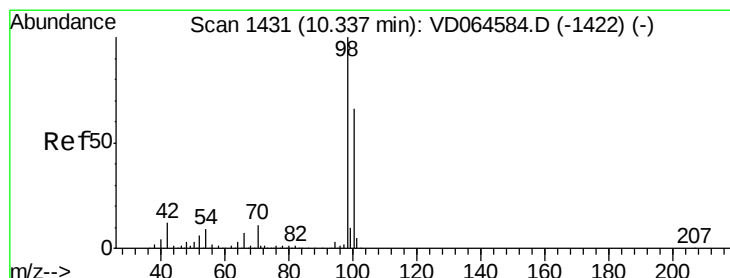
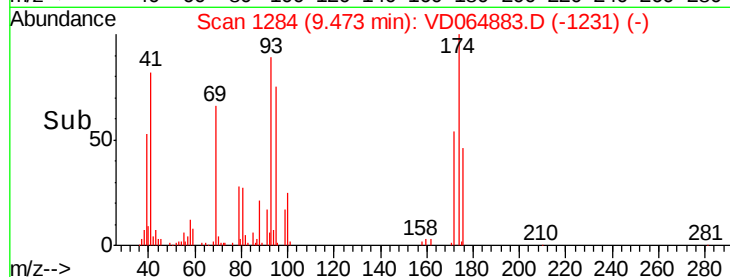
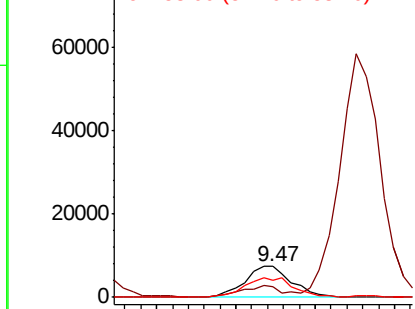
#49  
1,4-Dioxane  
Concen: 738.778 ug/l  
RT: 9.47 min Scan# 1284  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 88 Resp: 15194  
Ion Ratio Lower Upper  
88 100  
43 32.2 27.7 41.5  
58 66.3 53.8 80.6

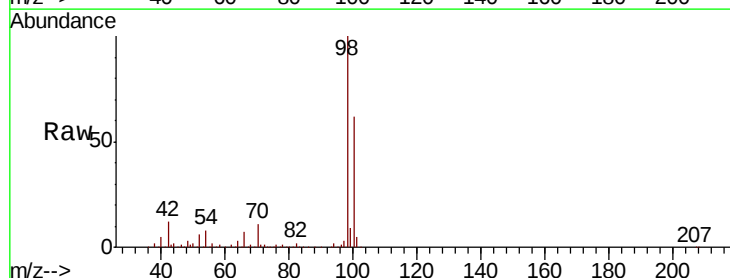


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

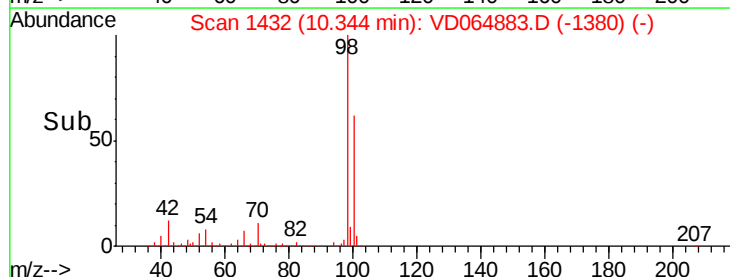
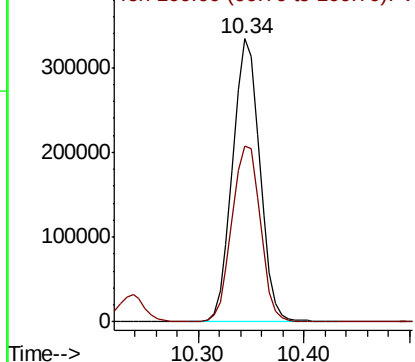


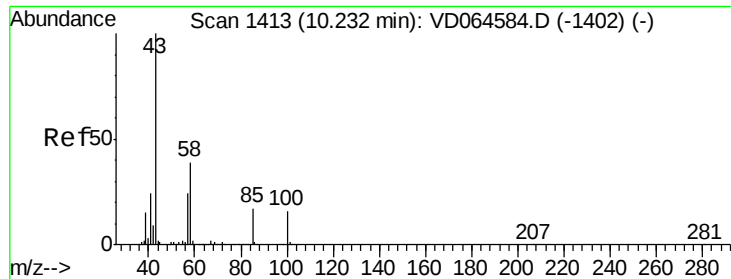
#50  
Toluene-d8  
Concen: 49.706 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 98 Resp: 595578  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.7 77.5



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: 193.227 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

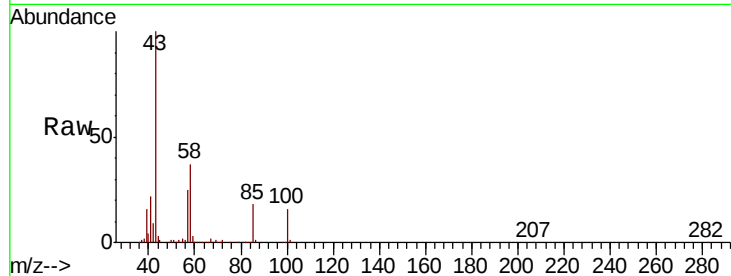
ClientSampleId :

Tot Ion: 43 Resp: 366549

Ion Ratio Lower Upper

43 100

58 37.1 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.24

200000

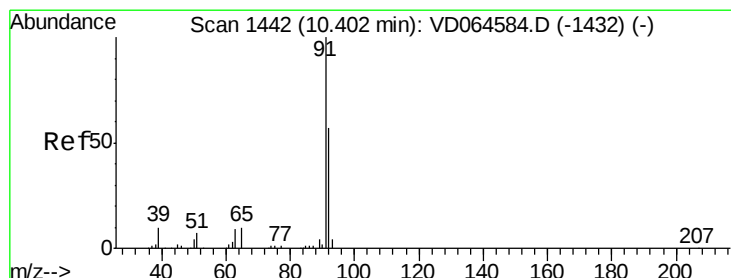
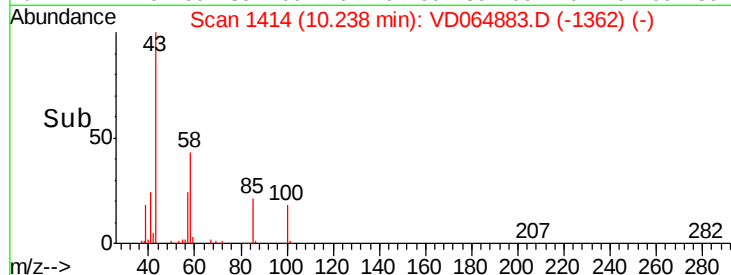
150000

100000

50000

0

Time--> 10.10 10.20 10.30



#52

Toluene

Concen: 51.869 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD064883.D

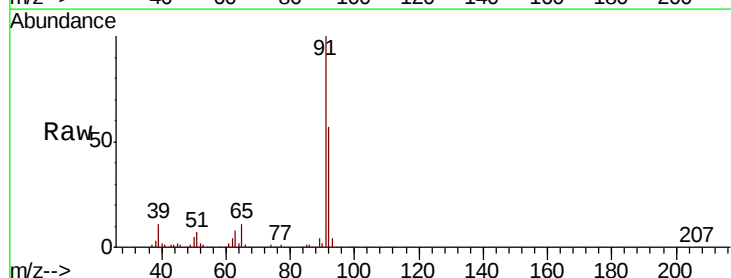
Acq: 20 Jan 2020 11:46

Tgt Ion: 92 Resp: 455963

Ion Ratio Lower Upper

92 100

91 173.0 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

500000

400000

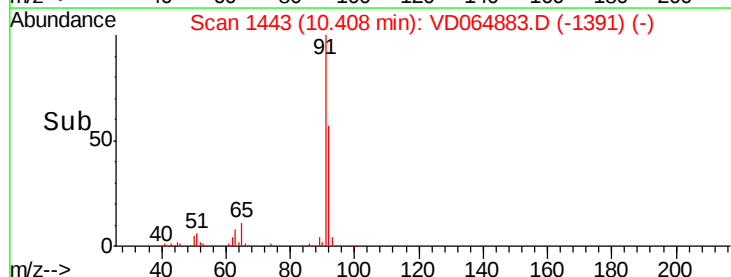
300000

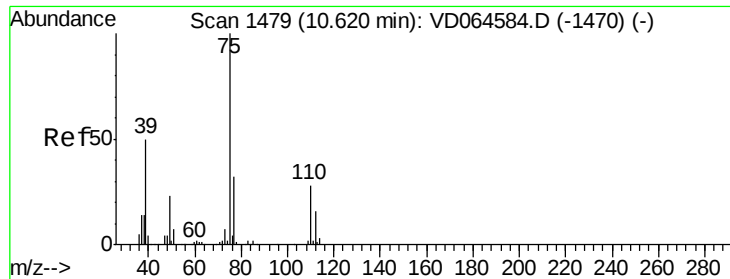
200000

100000

0

Time--> 10.30 10.40 10.50

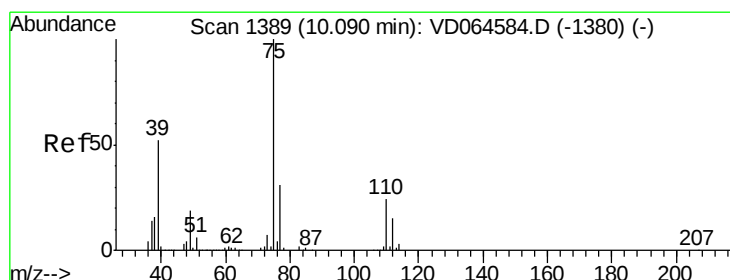
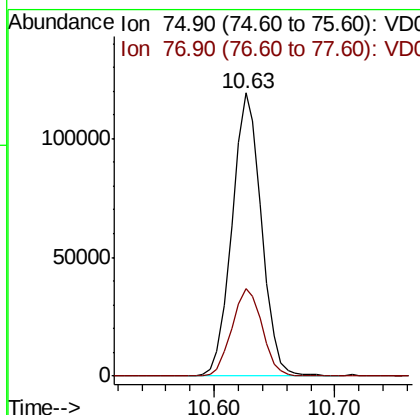
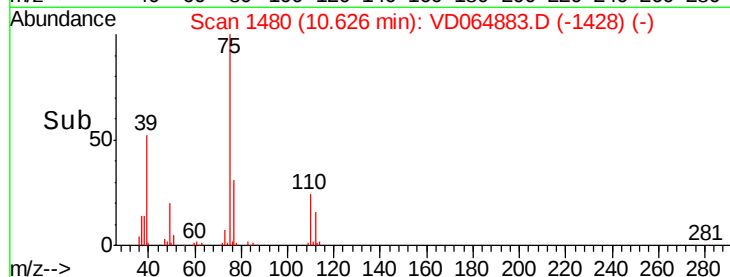
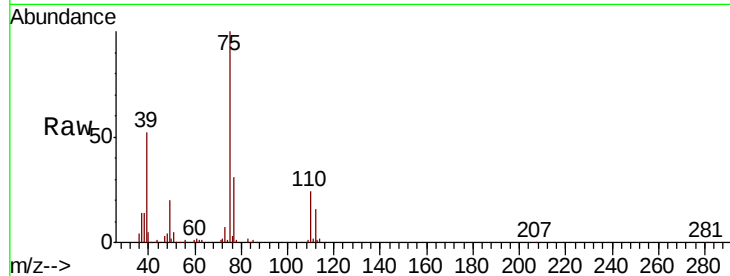




#53  
t-1,3-Dichloropropene  
Concen: 45.745 ug/l  
RT: 10.63 min Scan# 1480  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

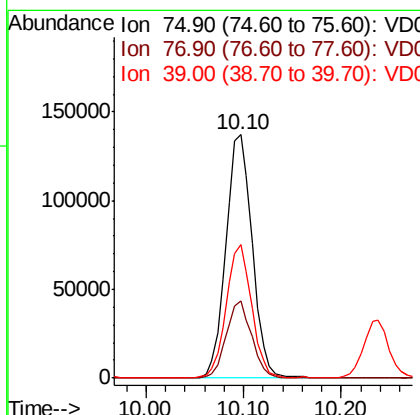
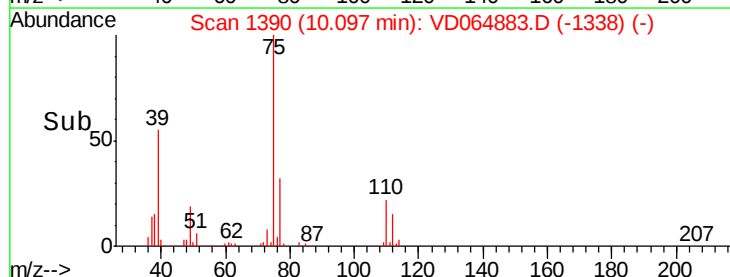
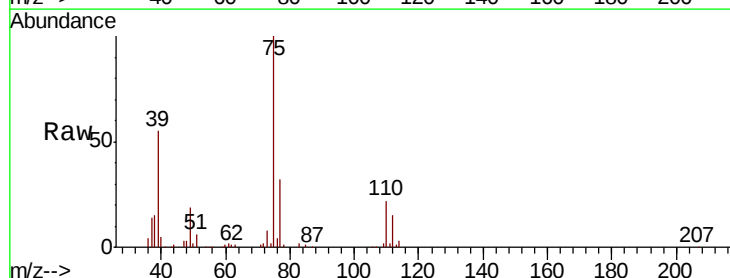
Instrument :  
MSVOA\_D  
ClientSampleId :

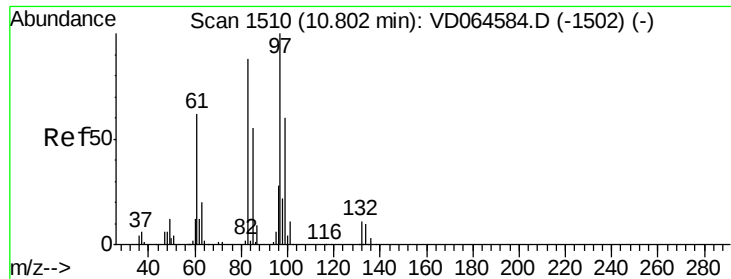
Tot Ion: 75 Resp: 202421  
Ion Ratio Lower Upper  
75 100  
77 31.1 25.4 38.2



#54  
cis-1,3-Dichloropropene  
Concen: 49.181 ug/l  
RT: 10.10 min Scan# 1390  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 75 Resp: 256609  
Ion Ratio Lower Upper  
75 100  
77 31.6 24.6 36.8  
39 54.7 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 44.672 ug/l

RT: 10.81 min Scan# 1511

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 97 Resp: 107379

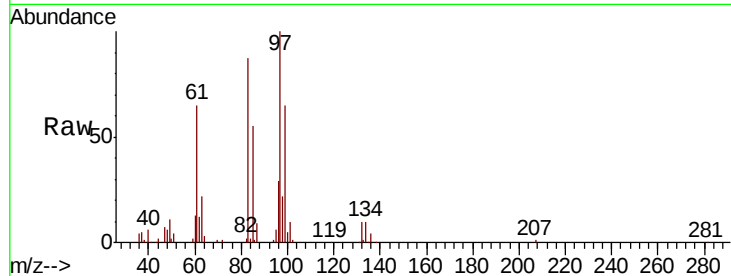
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 87.2  | 70.2  | 105.4 |
| 85  | 54.9  | 44.0  | 66.0  |
| 99  | 65.3  | 47.8  | 71.6  |

97 100

83 87.2 70.2 105.4

85 54.9 44.0 66.0

99 65.3 47.8 71.6



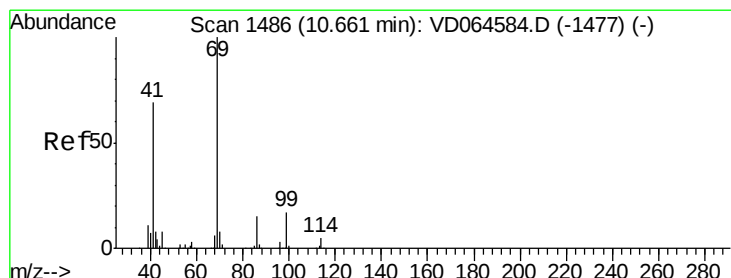
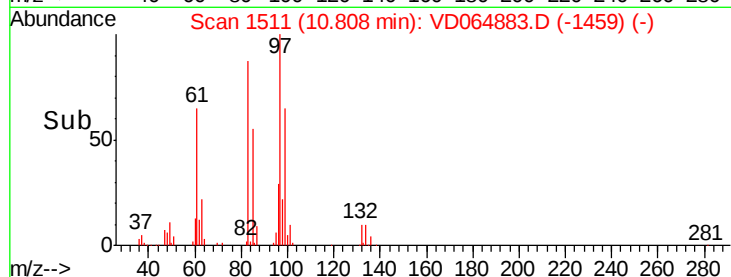
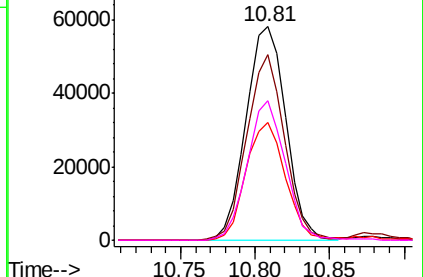
Abundance

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: 40.524 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

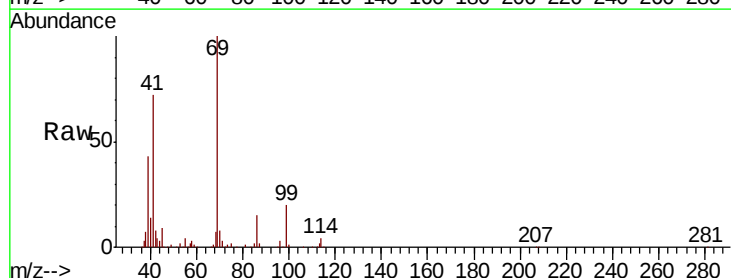
Tgt Ion: 69 Resp: 121652

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 70.3  | 55.3  | 82.9  |
| 39  | 40.4  | 33.8  | 50.8  |

69 100

41 70.3 55.3 82.9

39 40.4 33.8 50.8

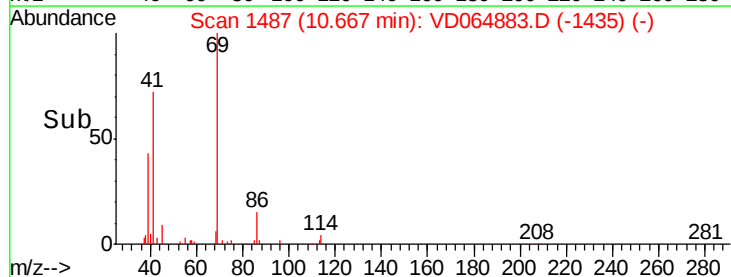
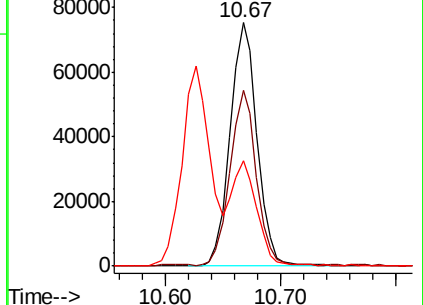


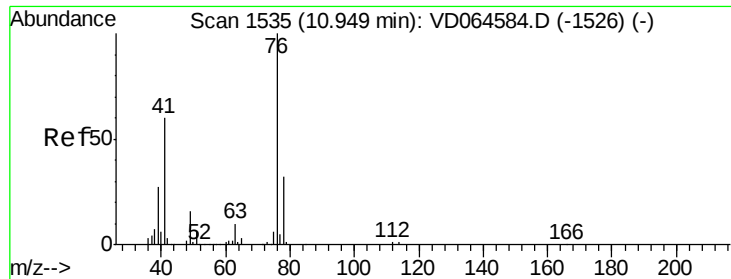
Abundance

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

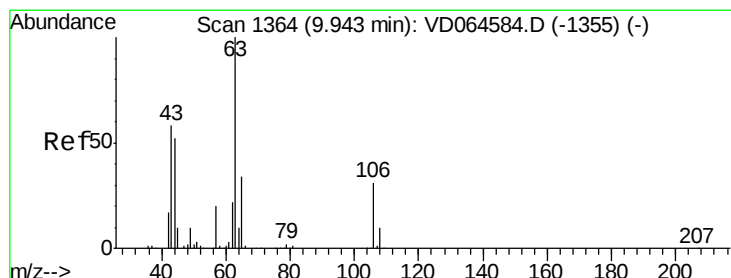
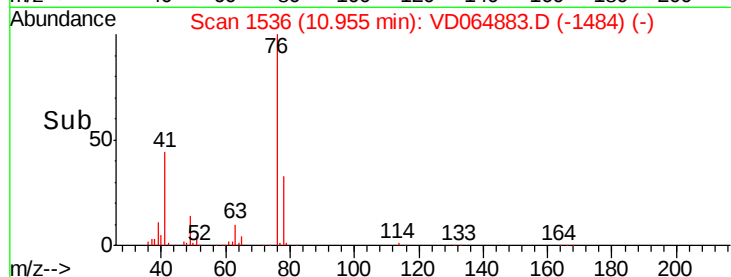
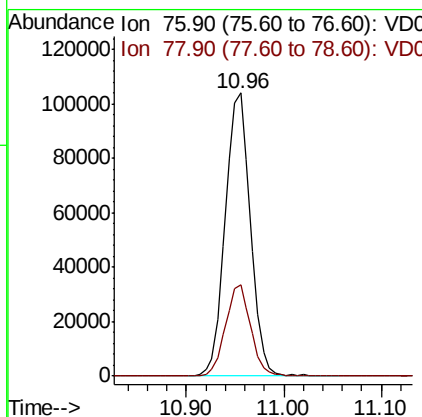
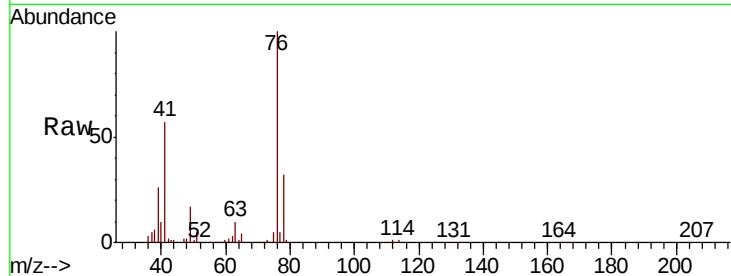




#57  
 1,3-Dichloropropane  
 Concen: 44.975 ug/l  
 RT: 10.96 min Scan# 1536  
 Delta R.T. 0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

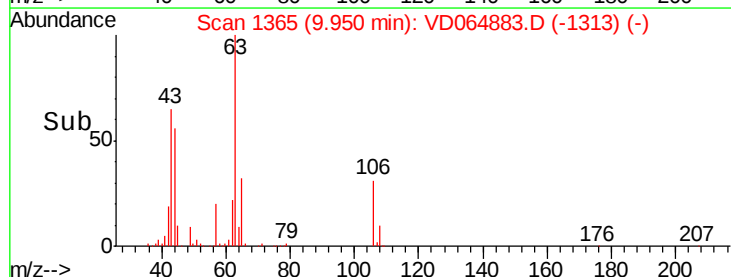
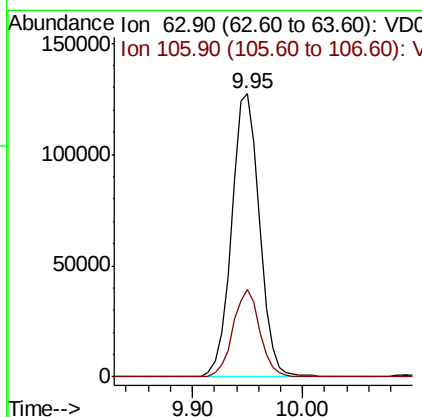
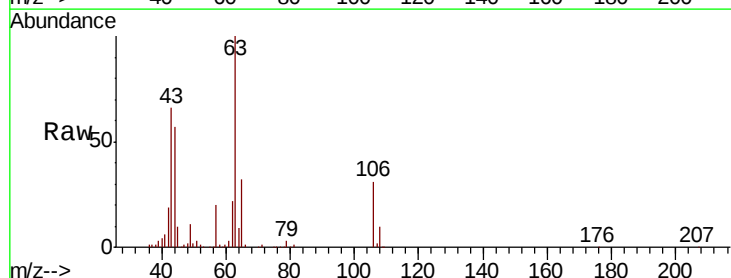
Instrument :  
 MSVOA\_D  
 ClientSampleID :

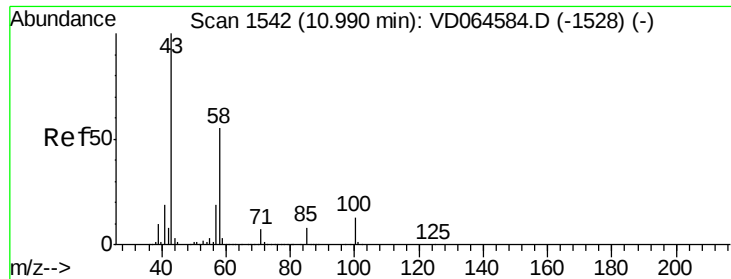
Tot Ion: 76 Resp: 186141  
 Ion Ratio Lower Upper  
 76 100  
 78 32.3 26.2 39.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 197.307 ug/l  
 RT: 9.95 min Scan# 1365  
 Delta R.T. 0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Tgt Ion: 63 Resp: 225664  
 Ion Ratio Lower Upper  
 63 100  
 106 29.7 23.8 35.8

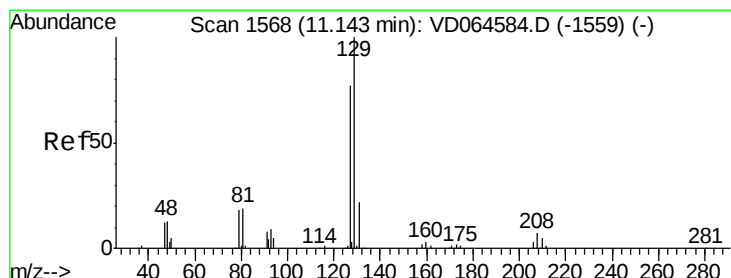
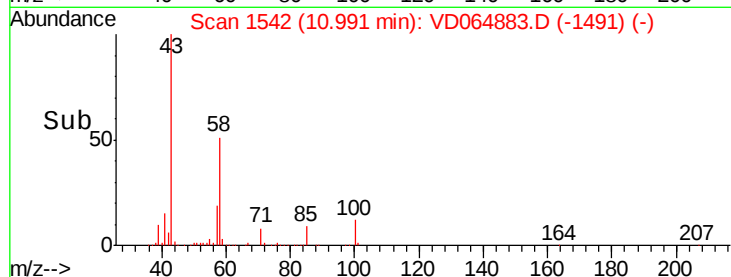
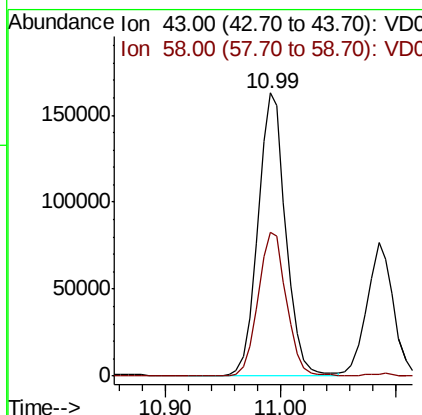
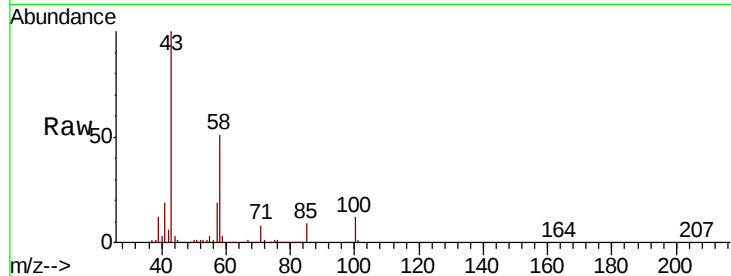




#59  
2-Hexanone  
Concen: 212.245 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

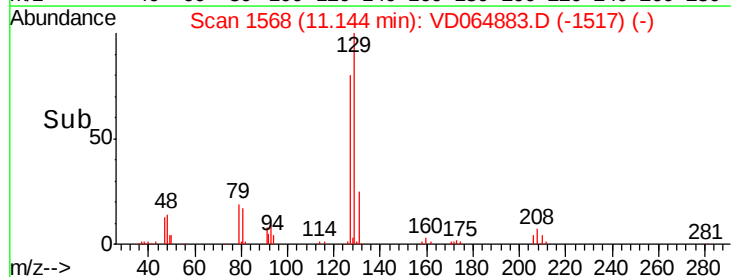
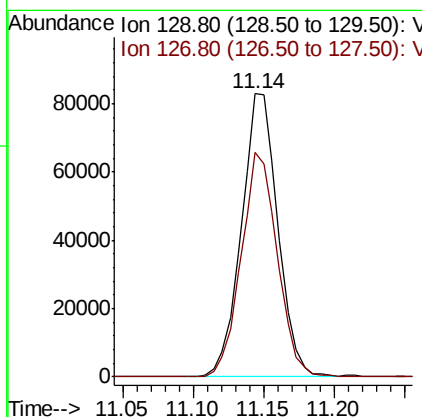
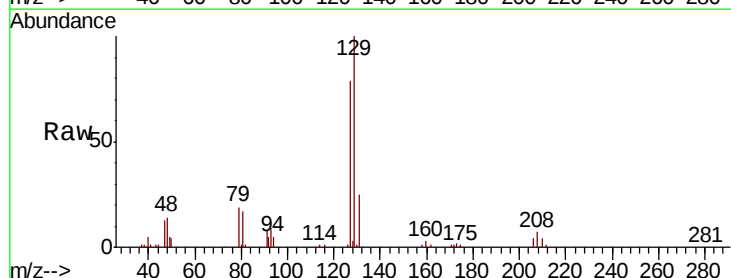
Instrument :  
MSVOA\_D  
ClientSampleId :

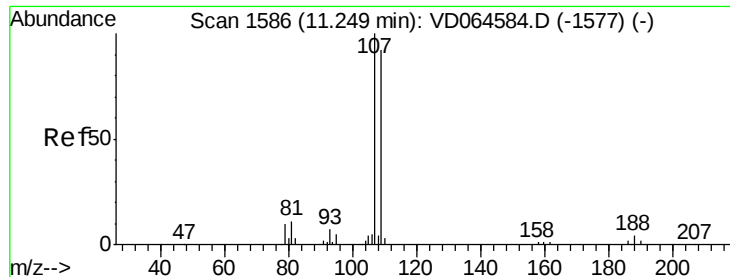
Tot Ion: 43 Resp: 273270  
Ion Ratio Lower Upper  
43 100  
58 51.9 26.4 79.0



#60  
Dibromochloromethane  
Concen: 45.102 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 129 Resp: 149921  
Ion Ratio Lower Upper  
129 100  
127 78.7 38.4 115.2

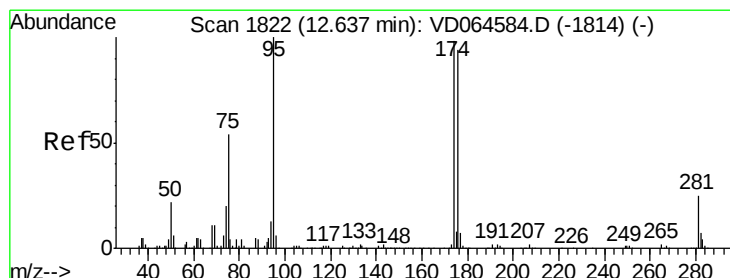
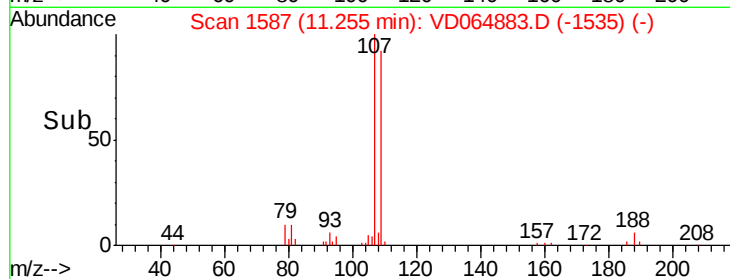
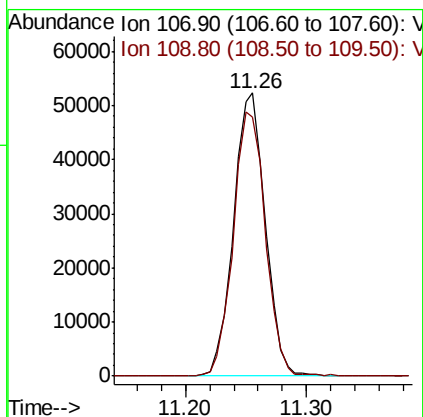
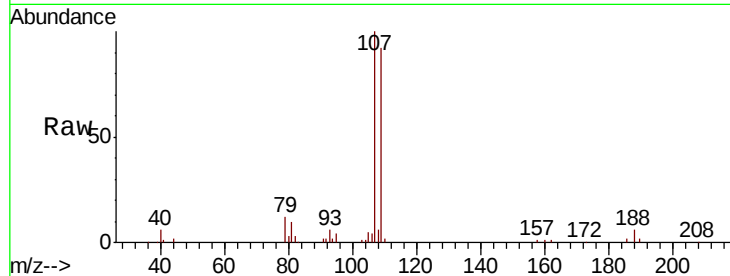




#61  
 1,2-Dibromoethane  
 Concen: 40.377 ug/l  
 RT: 11.26 min Scan# 1587  
 Delta R.T. 0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

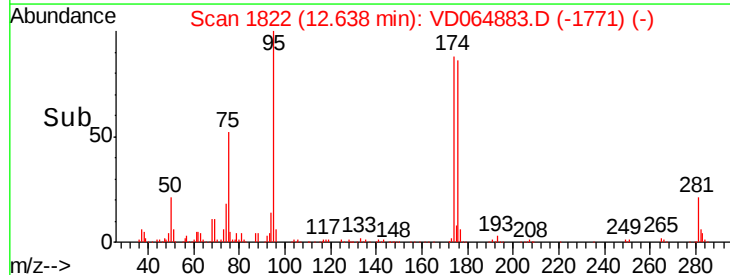
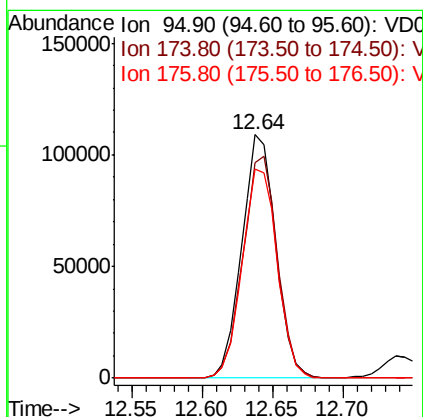
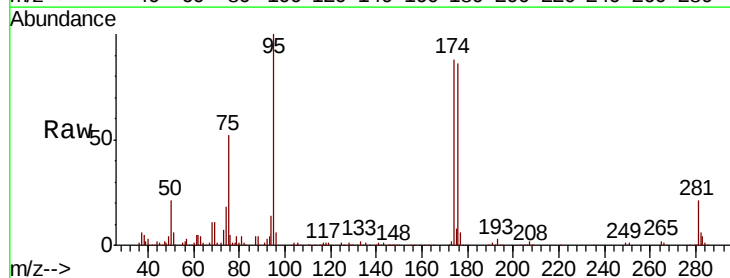
Instrument :  
 MSVOA\_D  
 ClientSampleId :

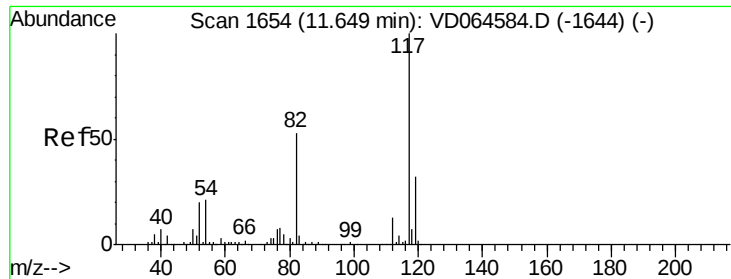
Tot Ion:107 Resp: 95727  
 Ion Ratio Lower Upper  
 107 100  
 109 94.7 75.6 113.4



#62  
 4-Bromofluorobenzene  
 Concen: 48.461 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

Tgt Ion: 95 Resp: 183614  
 Ion Ratio Lower Upper  
 95 100  
 174 92.7 0.0 193.2  
 176 88.7 0.0 184.2

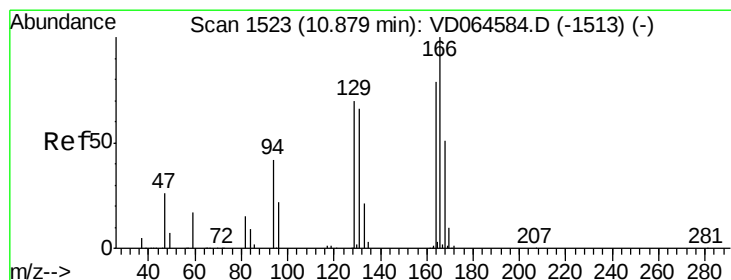
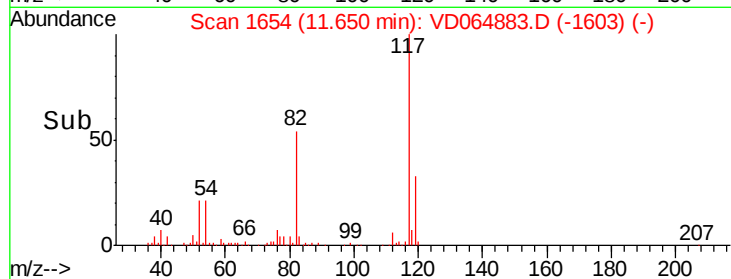
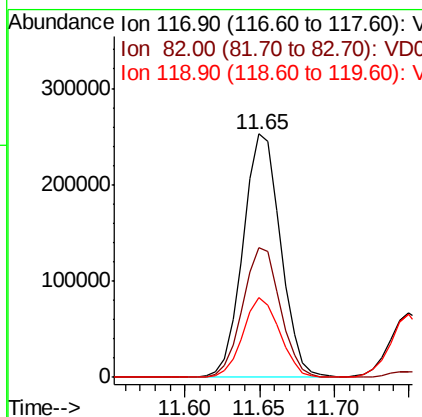
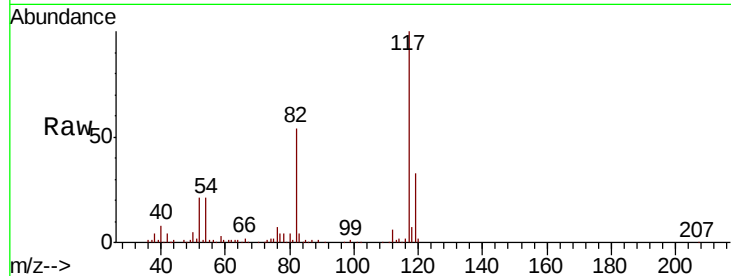




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

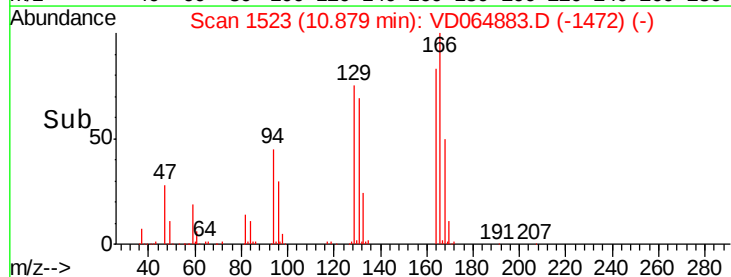
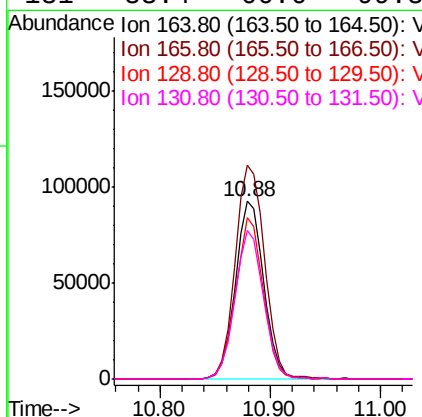
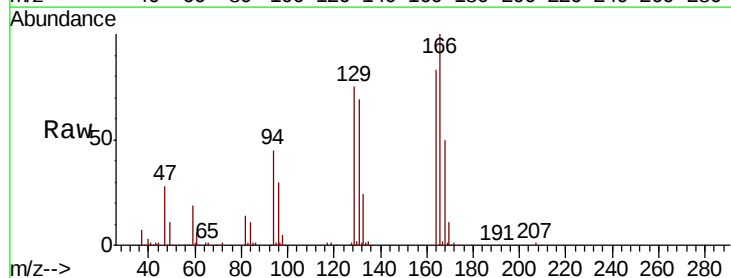
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 439560  
Ion Ratio Lower Upper  
117 100  
82 53.5 42.2 63.4  
119 32.9 26.0 39.0



#64  
Tetrachloroethene  
Concen: 49.422 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion:164 Resp: 166662  
Ion Ratio Lower Upper  
164 100  
166 120.2 101.3 151.9  
129 90.5 70.5 105.7  
131 83.4 66.6 99.8

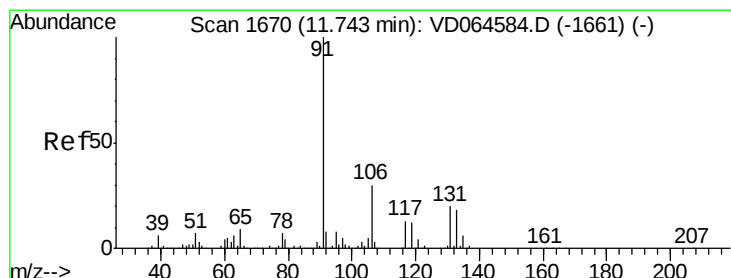
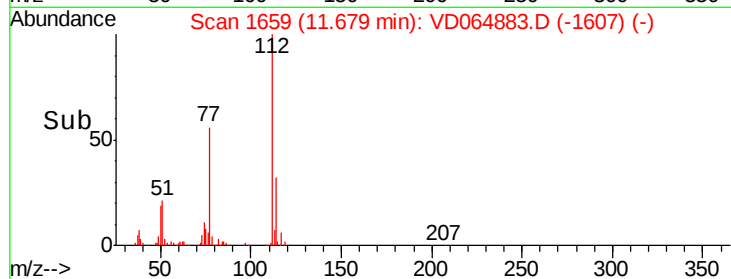
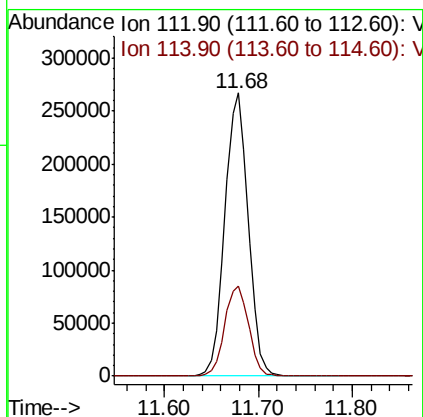
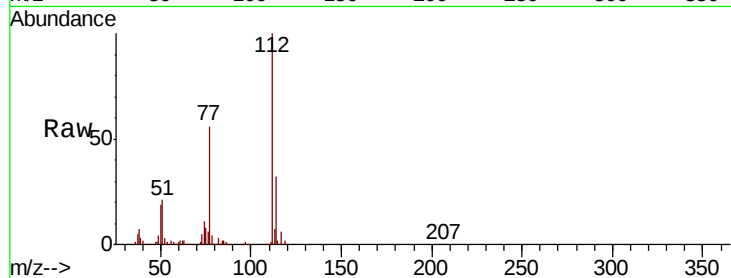




#65  
Chlorobenzene  
Concen: 50.670 ug/l  
RT: 11.68 min Scan# 1659  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

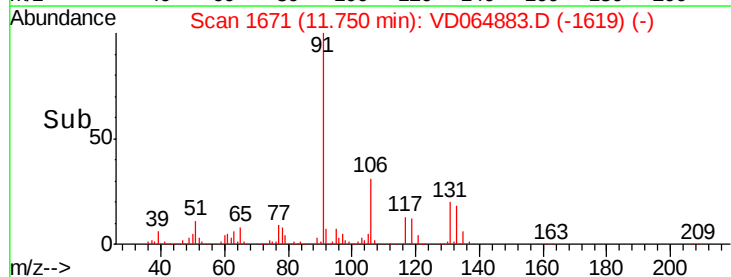
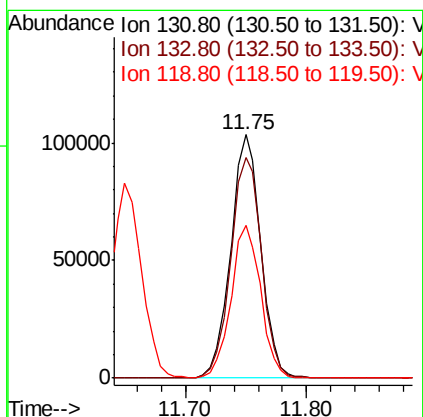
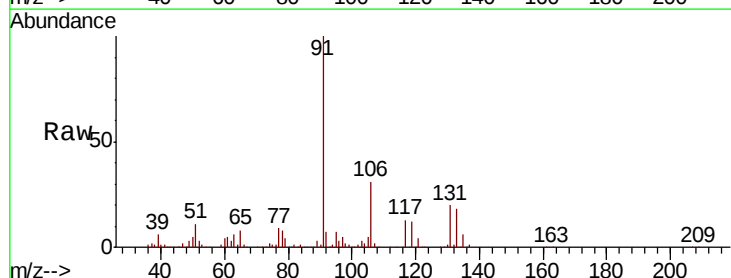
Instrument :  
MSVOA\_D  
ClientSampleId :

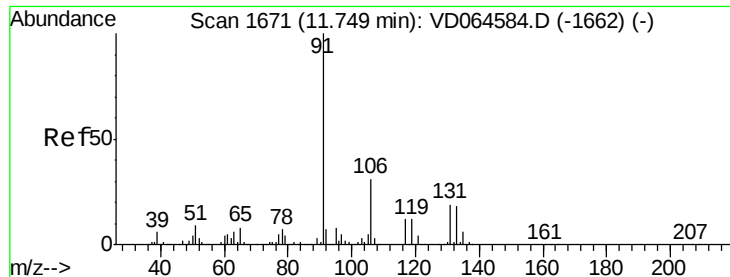
Tot Ion:112 Resp: 462261  
Ion Ratio Lower Upper  
112 100  
114 31.9 24.8 37.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.000 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion:131 Resp: 178840  
Ion Ratio Lower Upper  
131 100  
133 92.9 48.3 144.8  
119 62.5 32.1 96.3

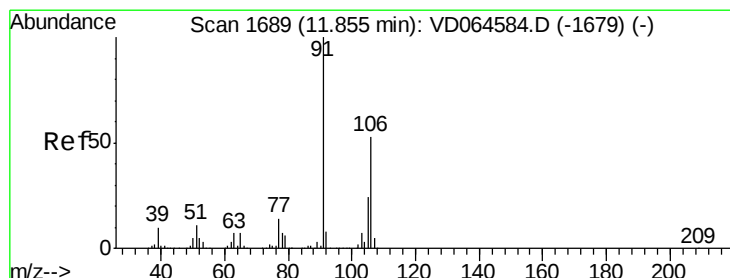
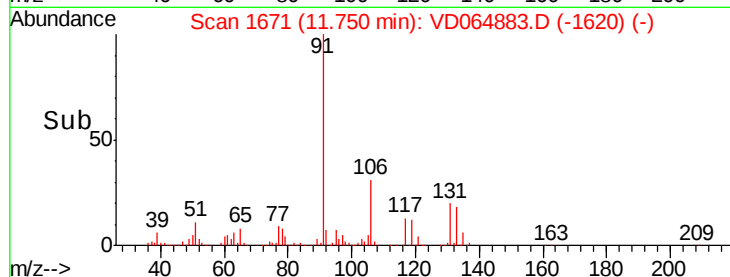
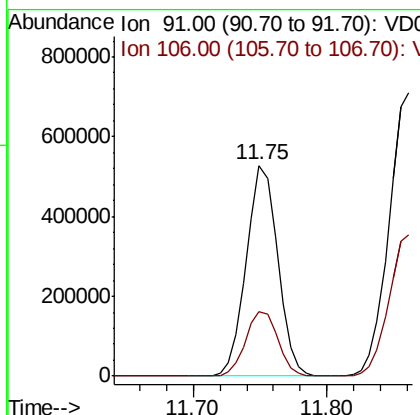
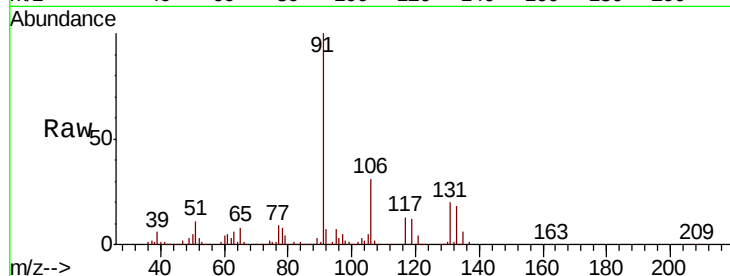




#67  
Ethyl Benzene  
Concen: 52.004 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

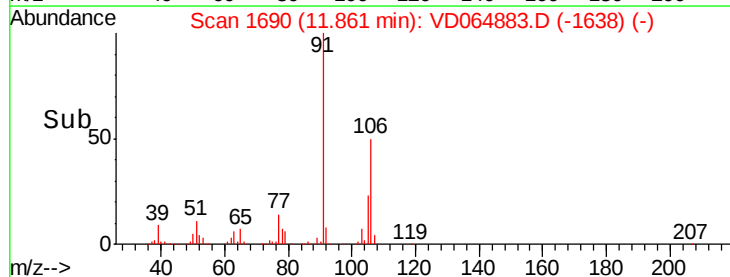
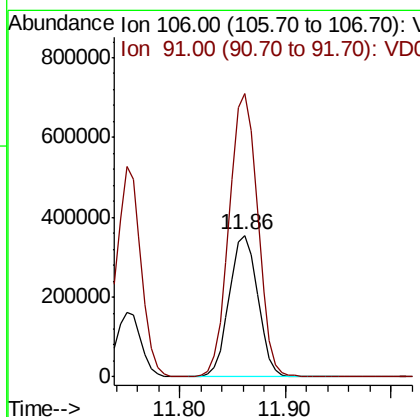
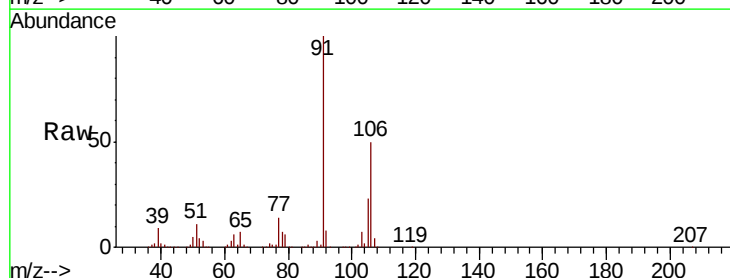
Instrument :  
MSVOA\_D  
ClientSampled :

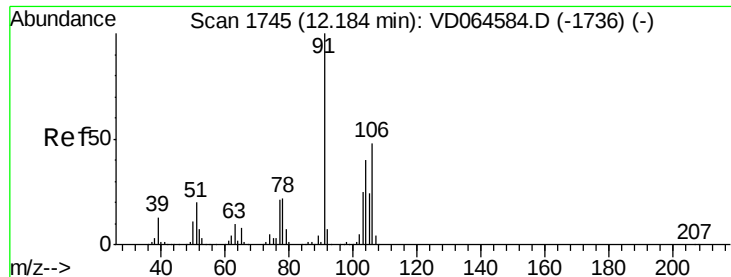
Tot Ion: 91 Resp: 861118  
Ion Ratio Lower Upper  
91 100  
106 30.8 24.6 36.8



#68  
m/p-Xylenes  
Concen: 104.021 ug/l  
RT: 11.86 min Scan# 1690  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 106 Resp: 664836  
Ion Ratio Lower Upper  
106 100  
91 199.5 156.3 234.5

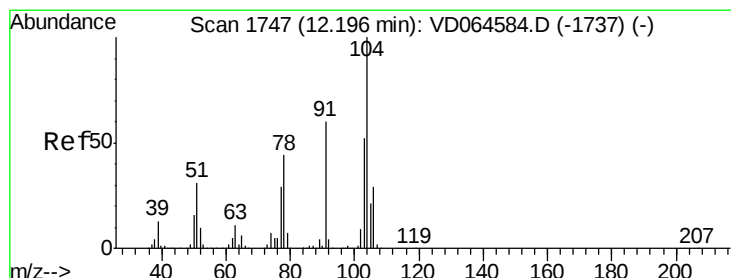
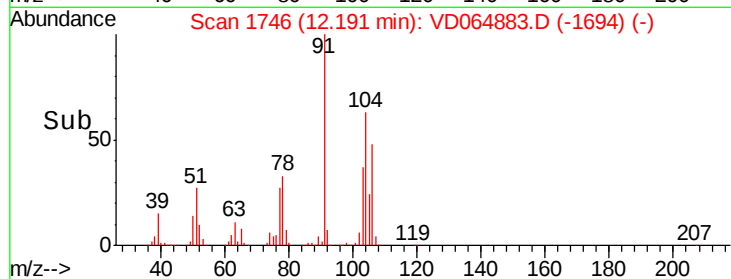
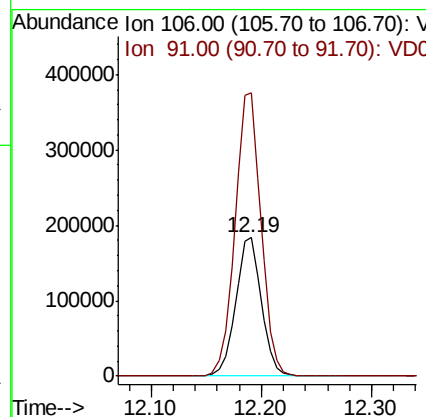
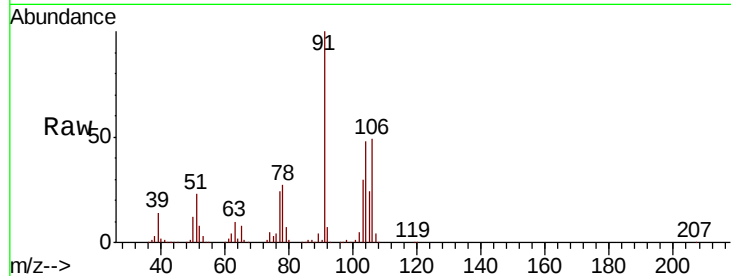




#69  
o-Xylene  
Concen: 51.832 ug/l  
RT: 12.19 min Scan# 1746  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

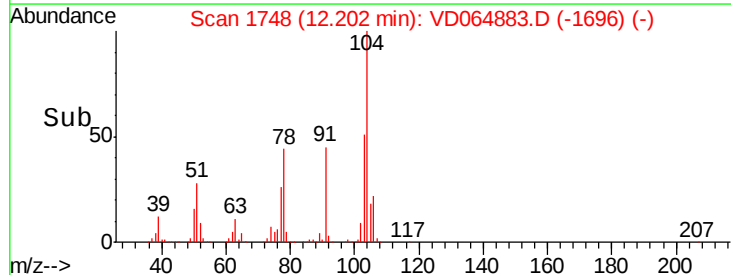
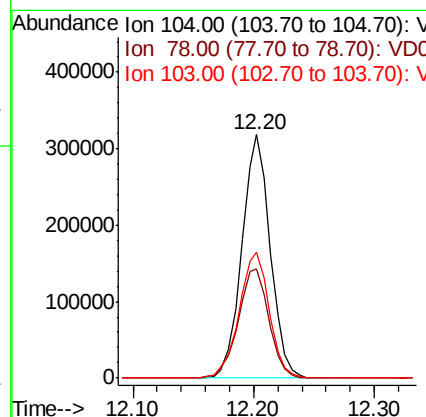
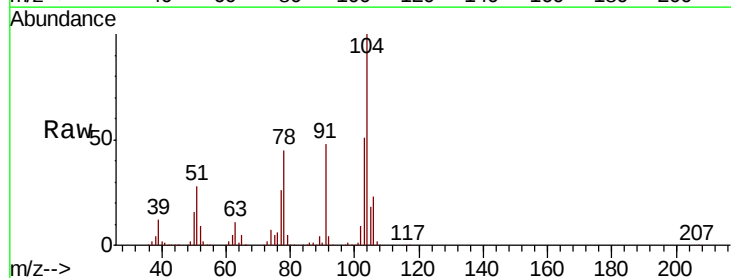
Instrument :  
MSVOA\_D  
ClientSampleId :

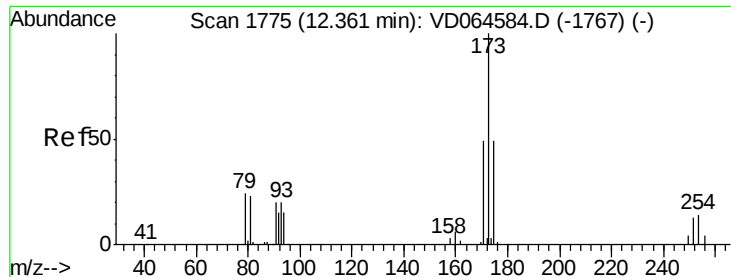
Tot Ion:106 Resp: 299225  
Ion Ratio Lower Upper  
106 100  
91 207.7 104.8 314.4



#70  
Styrene  
Concen: 51.237 ug/l  
RT: 12.20 min Scan# 1748  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion:104 Resp: 519201  
Ion Ratio Lower Upper  
104 100  
78 48.9 38.2 57.2  
103 55.1 44.6 67.0





#71

Bromoform

Concen: 42.280 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

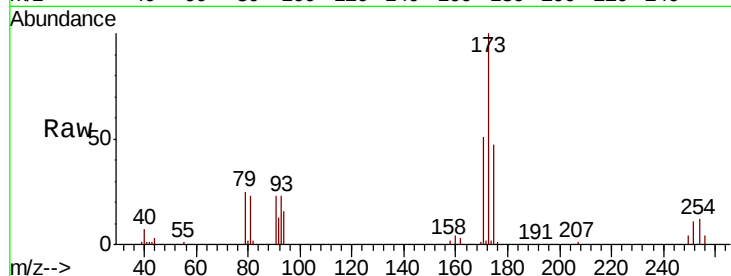
Tot Ion:173 Resp: 82925

Ion Ratio Lower Upper

173 100

175 48.3 24.6 73.8

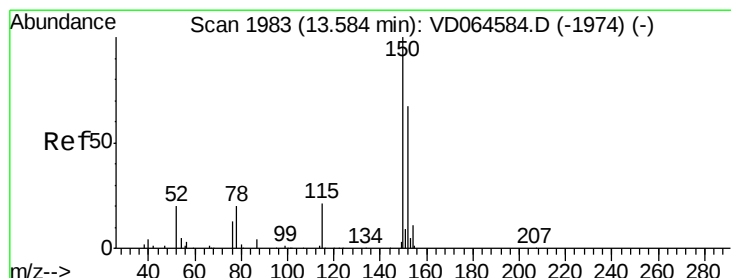
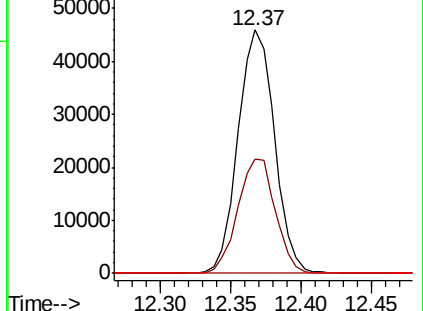
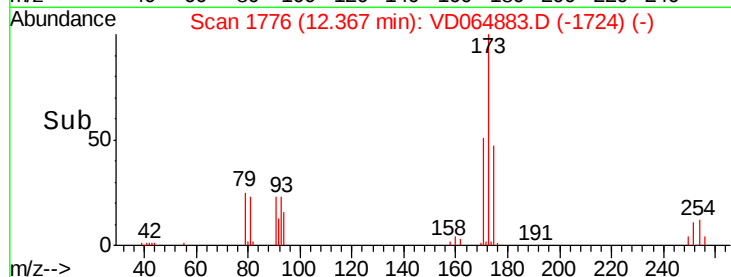
254 0.1 0.1 0.1#



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: VD064883.D

Acq: 20 Jan 2020 11:46

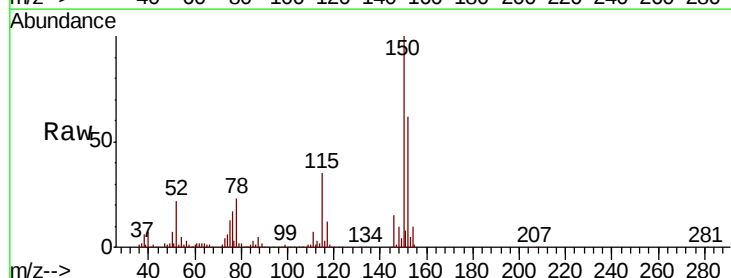
Tgt Ion:152 Resp: 214264

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.4

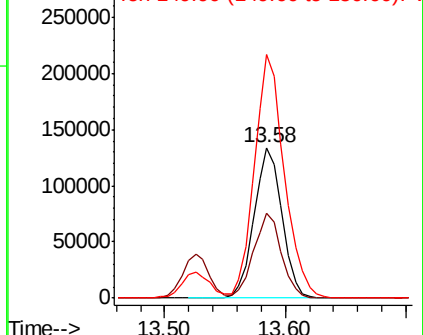
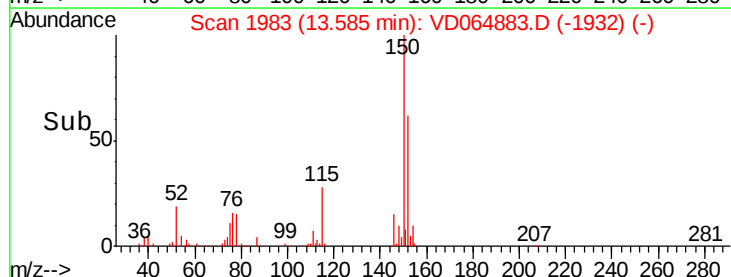
150 174.2 0.0 351.4

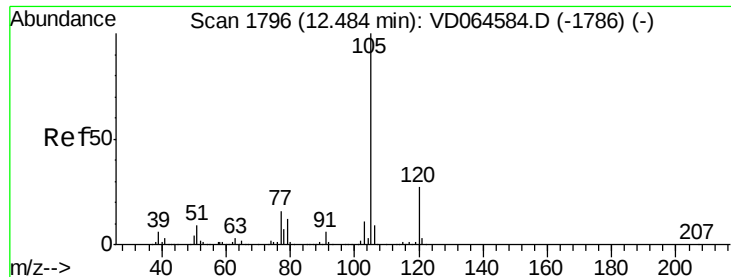


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 54.361 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

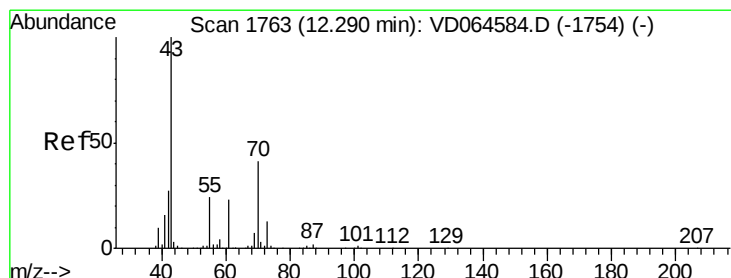
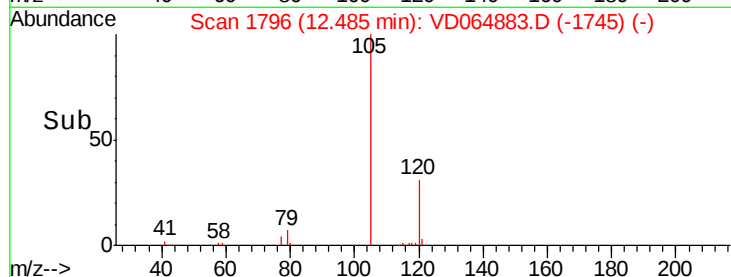
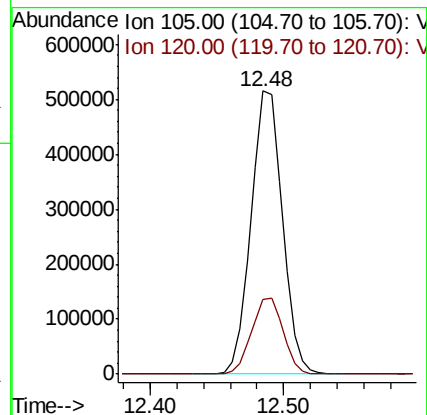
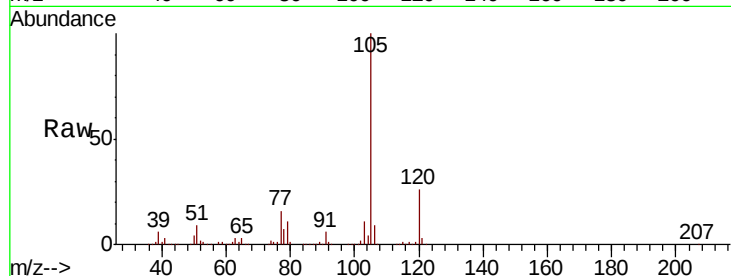
ClientSampleId :

Tot Ion:105 Resp: 832364

Ion Ratio Lower Upper

105 100

120 26.9 13.5 40.5



#74

N-ethyl acetate

Concen: 40.740 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Tgt Ion: 43 Resp: 133345

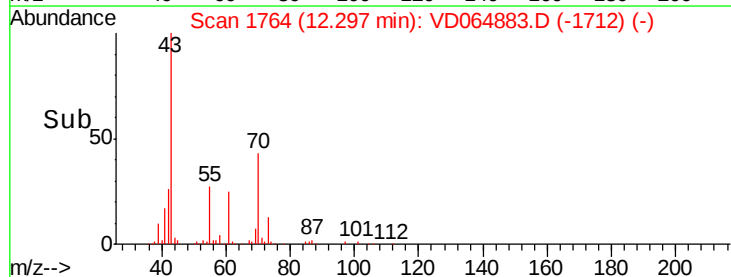
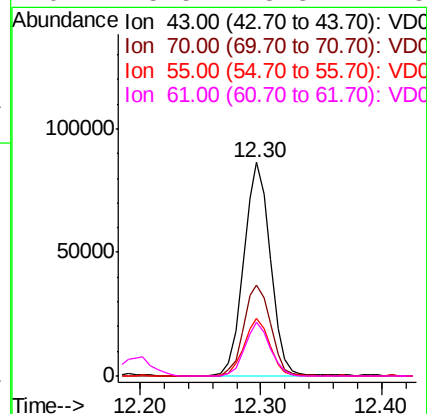
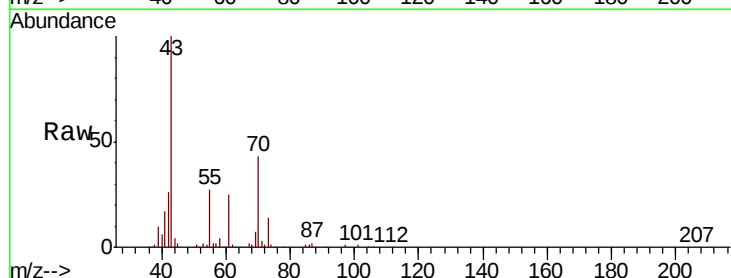
Ion Ratio Lower Upper

43 100

70 43.1 33.4 50.0

55 26.2 19.4 29.0

61 23.5 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 42.554 ug/l

RT: 12.74 min Scan# 1840

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

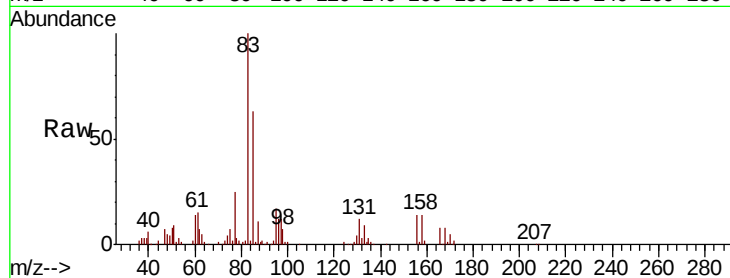
Tot Ion: 83 Resp: 102356

Ion Ratio Lower Upper

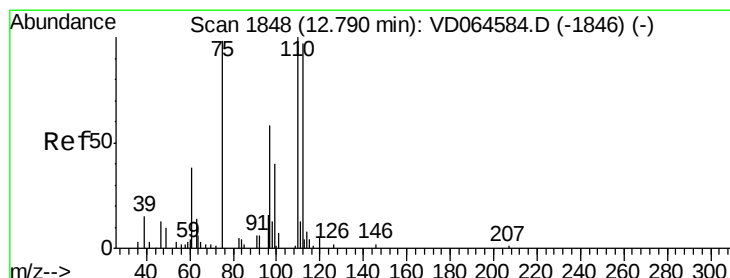
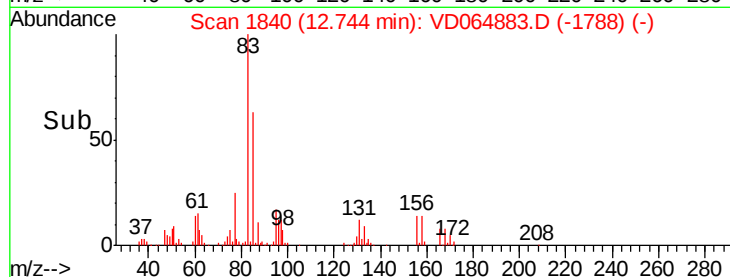
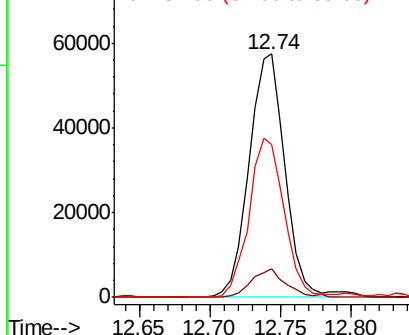
83 100

131 11.4 5.8 17.4

85 64.3 32.3 96.9



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: 83.859 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD064883.D

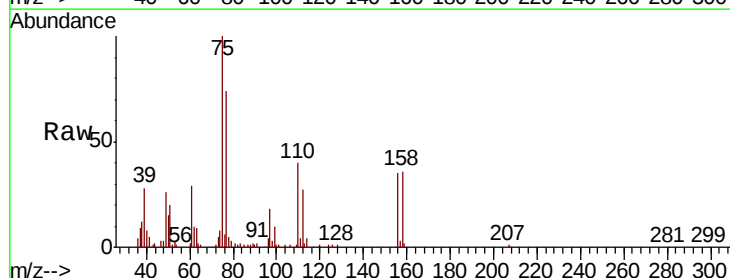
Acq: 20 Jan 2020 11:46

Tgt Ion: 75 Resp: 141886

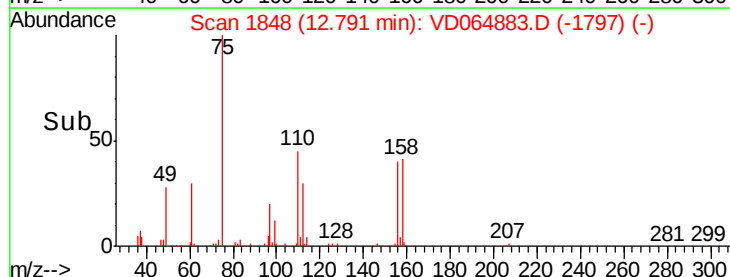
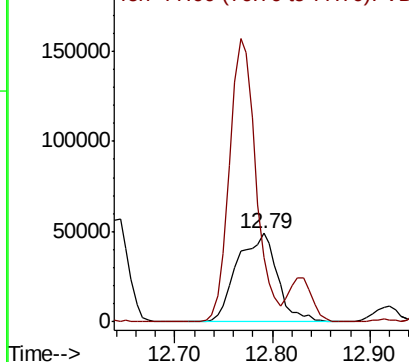
Ion Ratio Lower Upper

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: 48.820 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

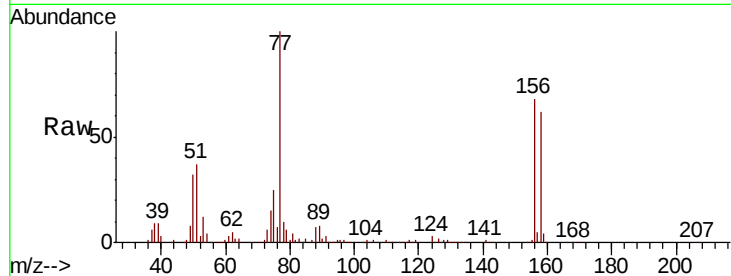
Tot Ion:156 Resp: 183678

Ion Ratio Lower Upper

156 100

77 161.4 80.9 242.7

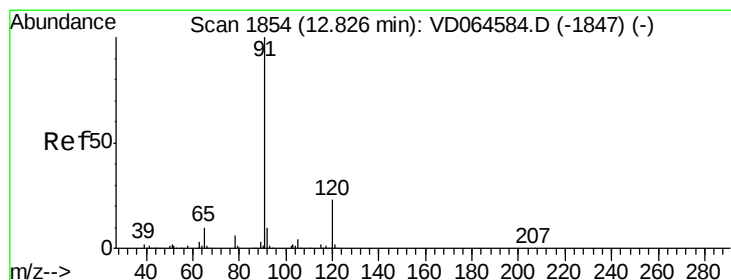
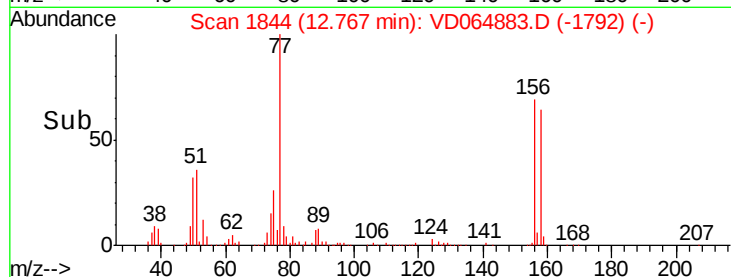
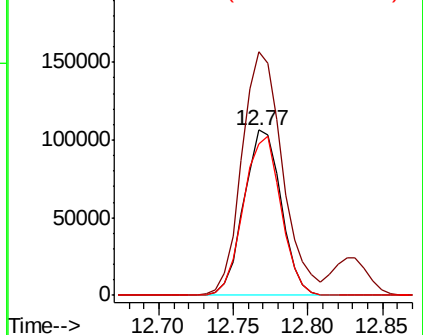
158 96.9 48.0 144.2



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: 54.630 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD064883.D

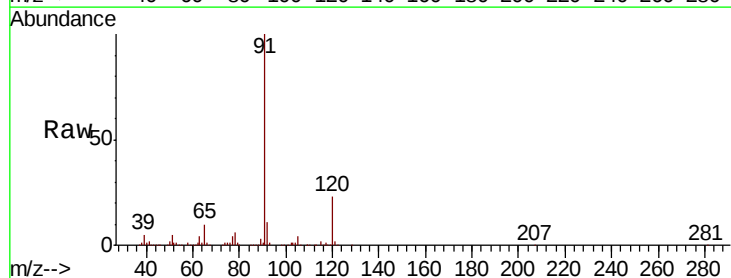
Acq: 20 Jan 2020 11:46

Tgt Ion: 91 Resp: 975870

Ion Ratio Lower Upper

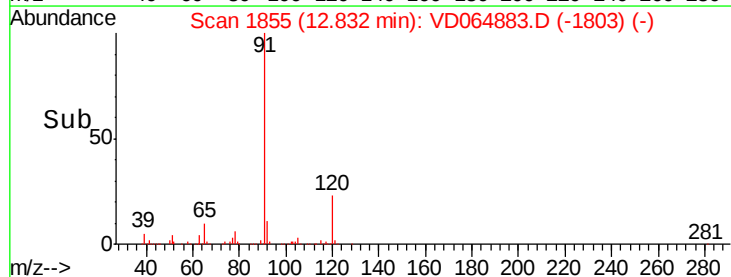
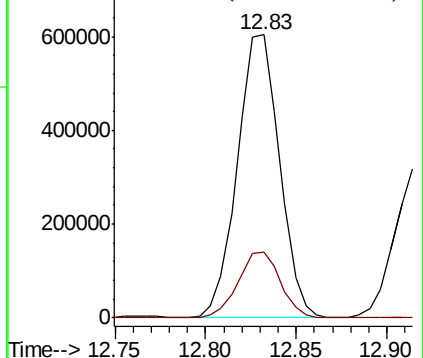
91 100

120 23.4 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.670 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

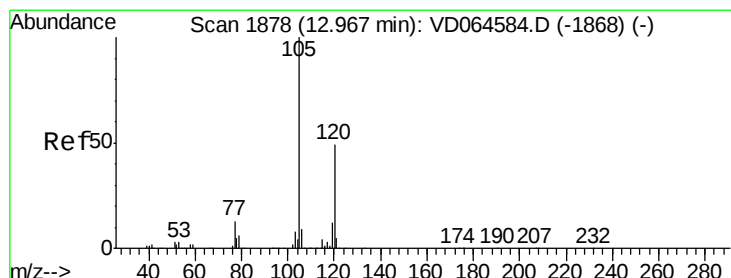
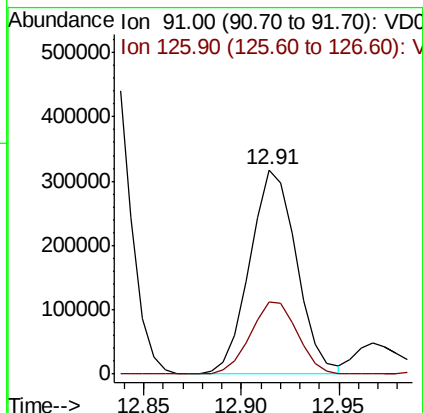
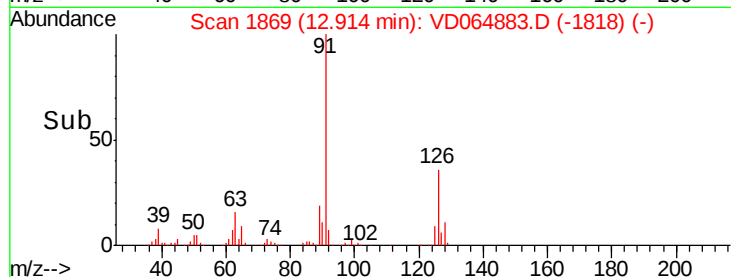
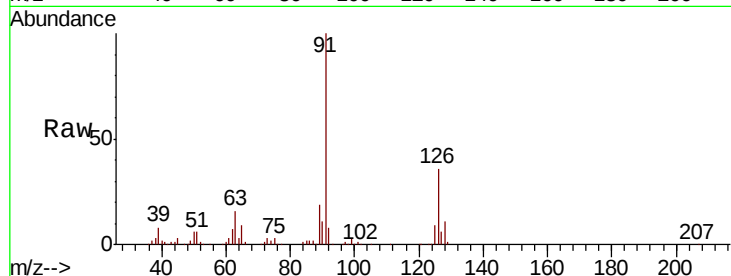
ClientSampleId :

Tot Ion: 91 Resp: 526656

Ion Ratio Lower Upper

91 100

126 36.0 17.8 53.5



#80

1,3,5-Trimethylbenzene

Concen: 54.246 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064883.D

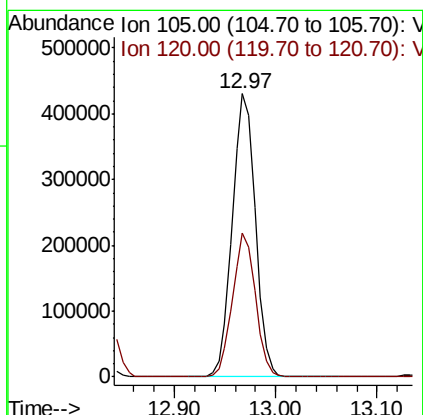
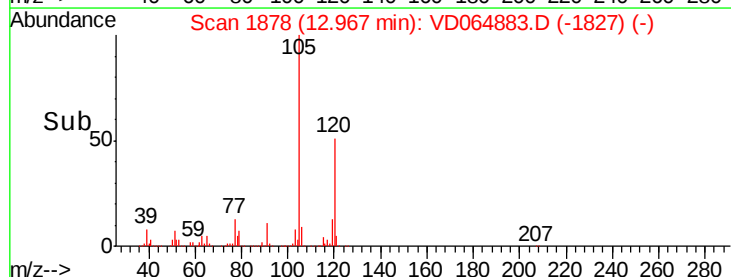
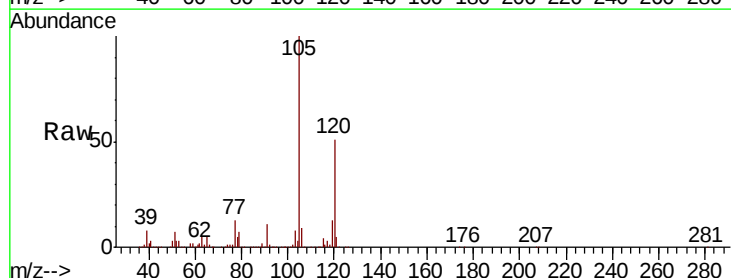
Acq: 20 Jan 2020 11:46

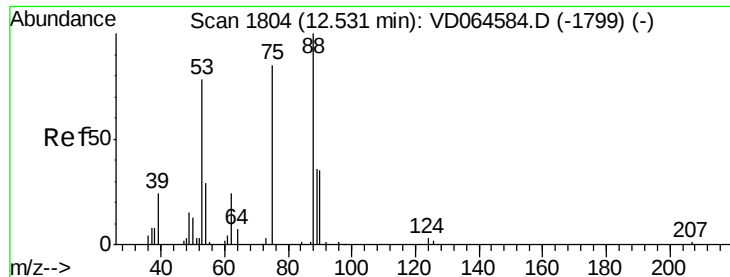
Tgt Ion: 105 Resp: 682298

Ion Ratio Lower Upper

105 100

120 50.4 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 41.697 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

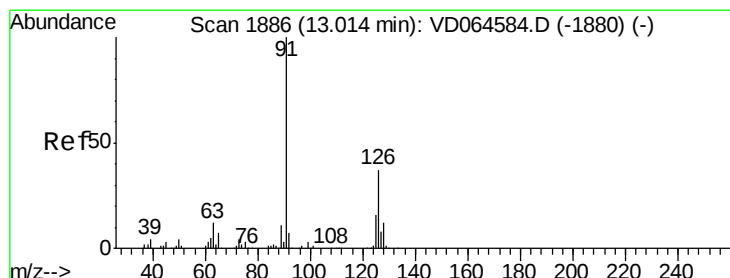
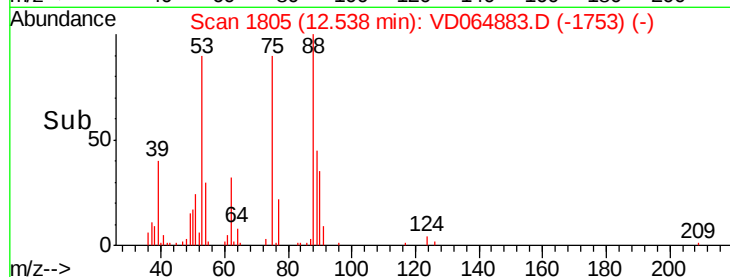
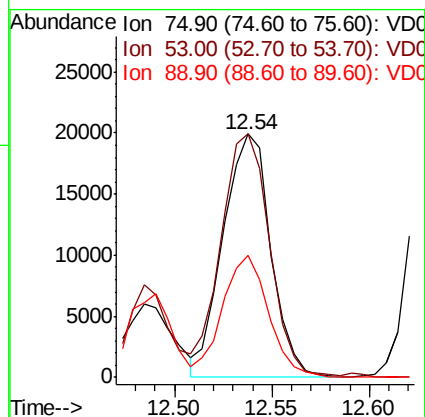
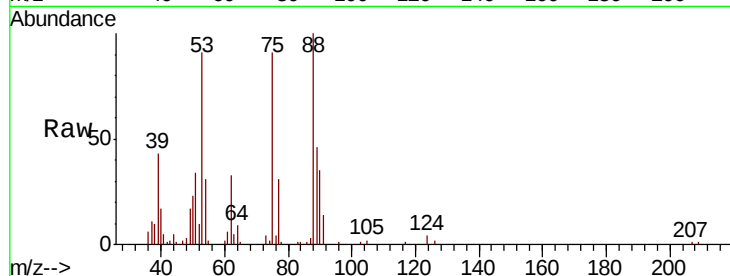
Tot Ion: 75 Resp: 33732

Ion Ratio Lower Upper

75 100

53 102.6 78.8 118.2

89 48.5 38.3 57.5



#82

4-Chlorotoluene

Concen: 52.938 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VD064883.D

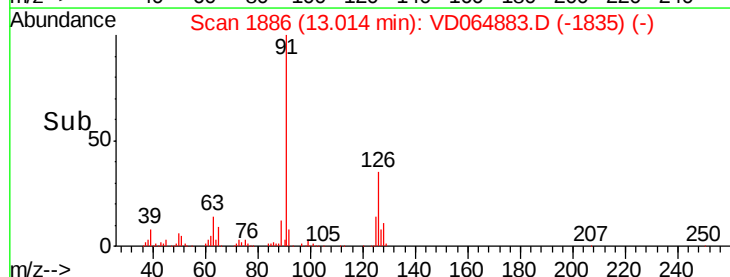
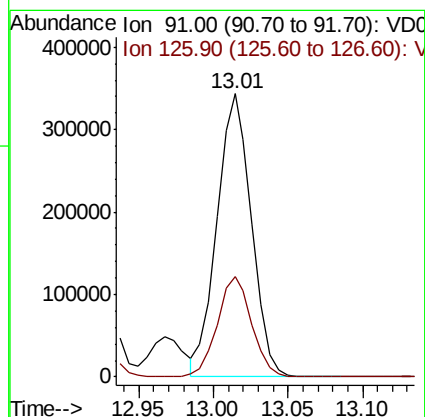
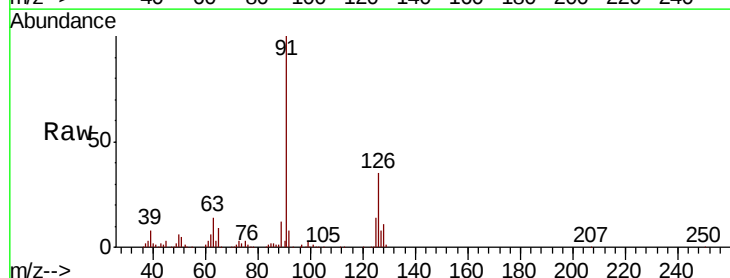
Acq: 20 Jan 2020 11:46

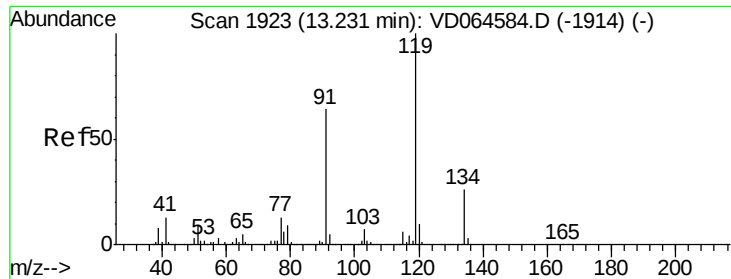
Tgt Ion: 91 Resp: 552826

Ion Ratio Lower Upper

91 100

126 35.4 17.8 53.5

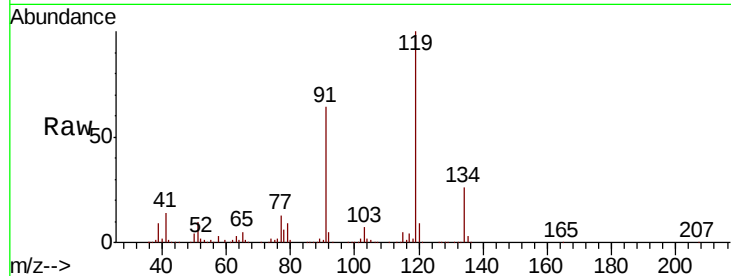




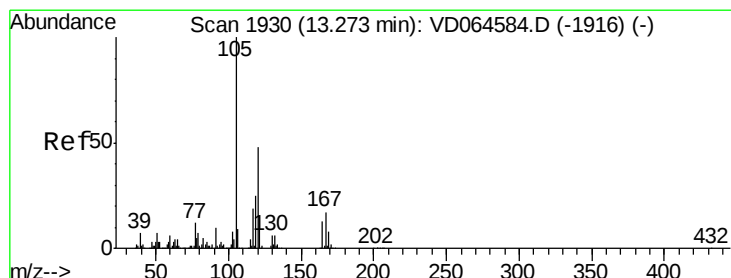
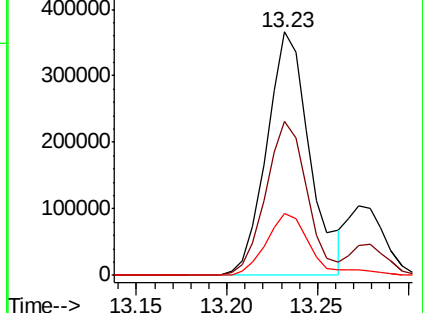
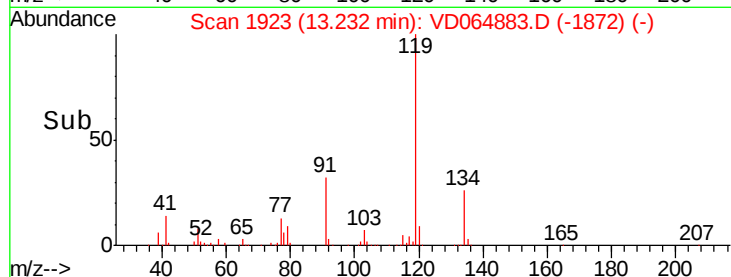
#83  
tert-Butylbenzene  
Concen: 55.334 ug/l  
RT: 13.23 min Scan# 1923  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:119 Resp: 604288  
Ion Ratio Lower Upper  
119 100  
91 61.2 30.8 92.4  
134 26.6 12.8 38.3

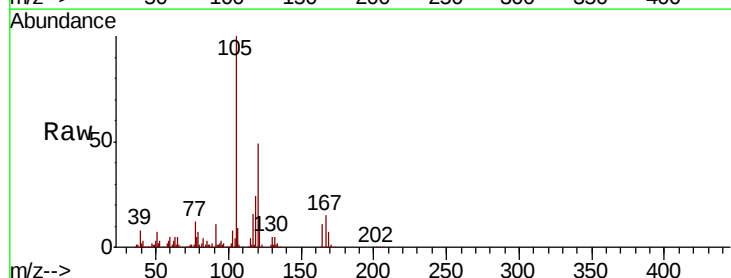


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

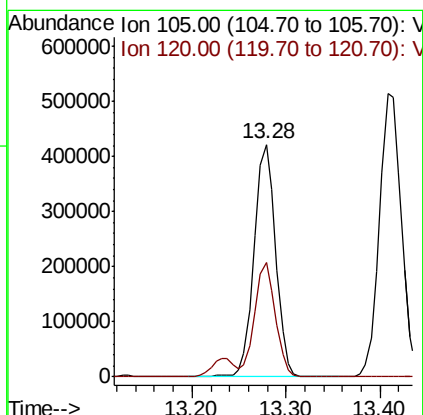
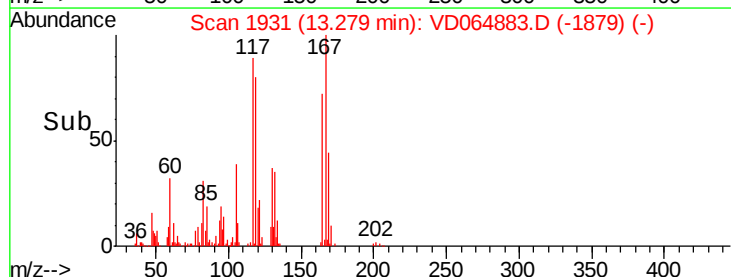


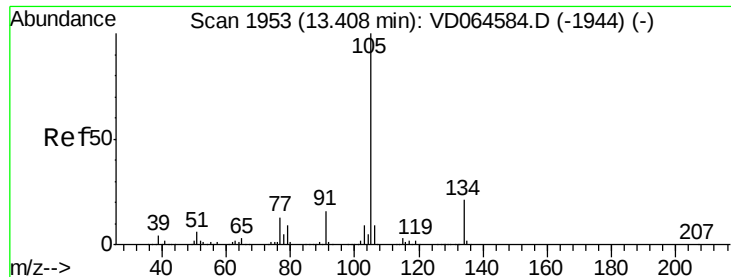
#84  
1,2,4-Trimethylbenzene  
Concen: 53.661 ug/l  
RT: 13.28 min Scan# 1931  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion:105 Resp: 672199  
Ion Ratio Lower Upper  
105 100  
120 47.1 23.8 71.2



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





#85

sec-Butylbenzene

Concen: 55.246 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

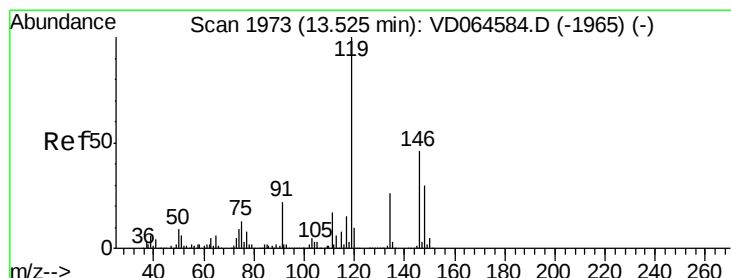
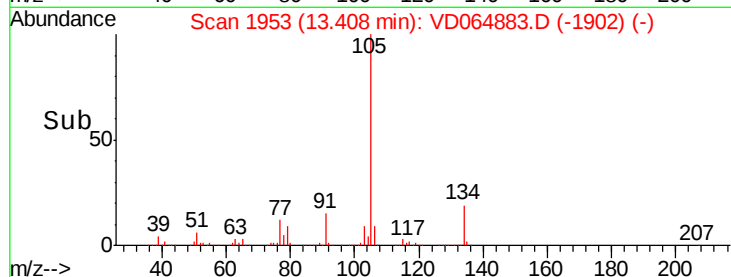
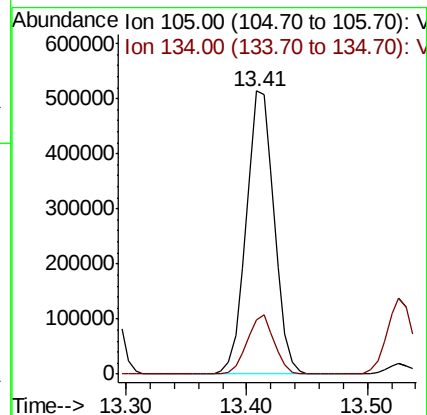
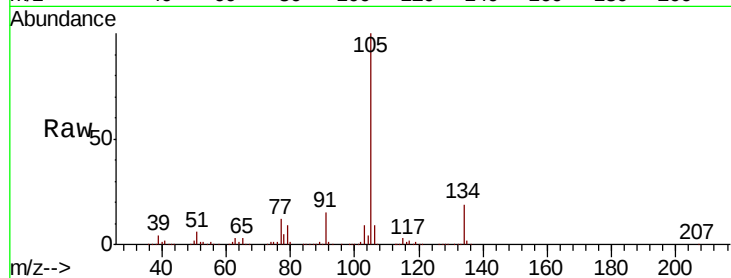
ClientSampled :

Tot Ion:105 Resp: 827123

Ion Ratio Lower Upper

105 100

134 20.2 10.6 31.8



#86

p-Isopropyltoluene

Concen: 53.896 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

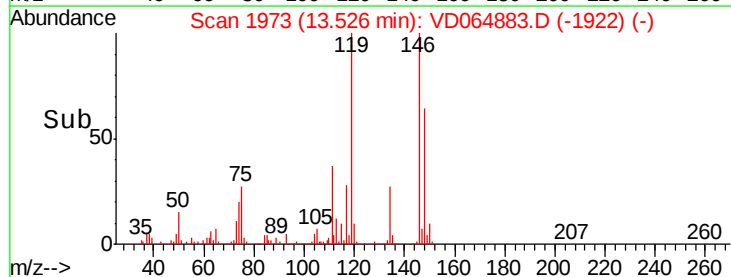
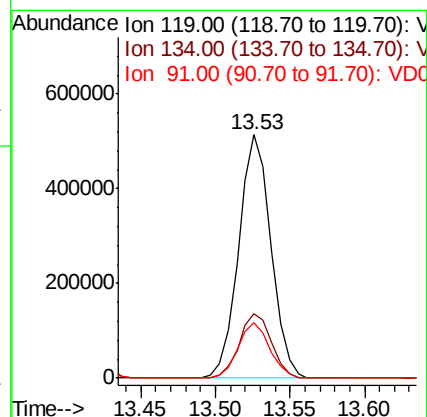
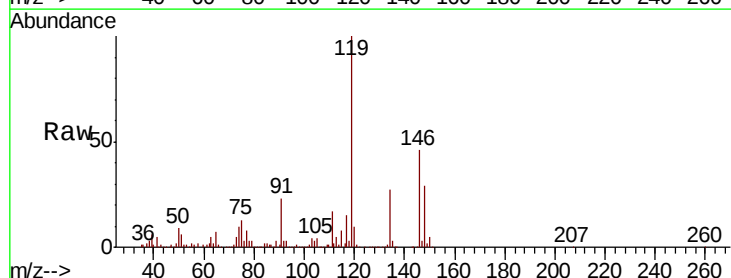
Tgt Ion:119 Resp: 771570

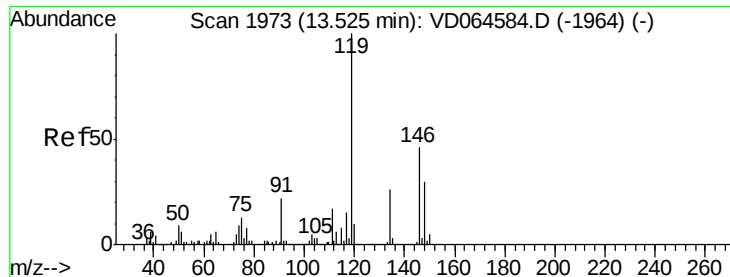
Ion Ratio Lower Upper

119 100

134 26.5 13.4 40.1

91 22.2 11.2 33.6





#87

1,3-Dichlorobenzene

Concen: 52.020 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

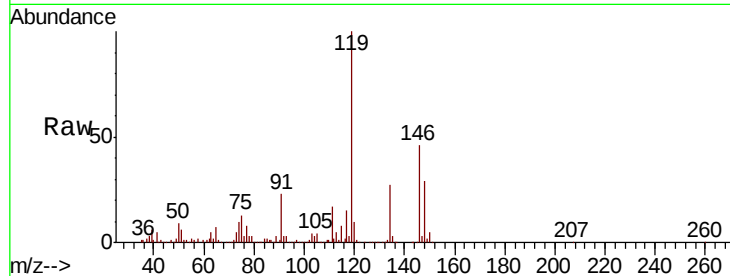
Tot Ion:146 Resp: 373099

Ion Ratio Lower Upper

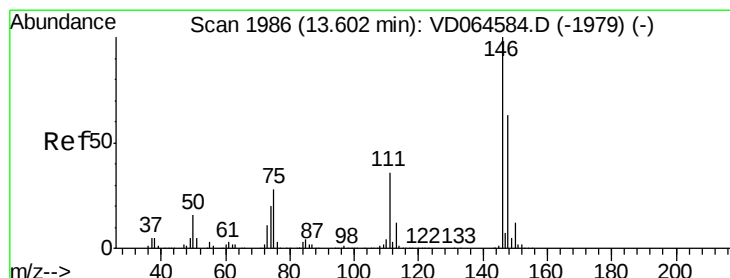
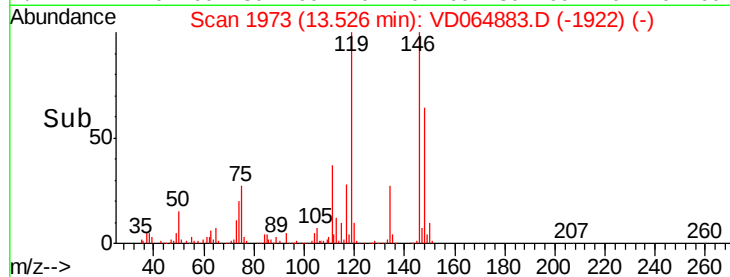
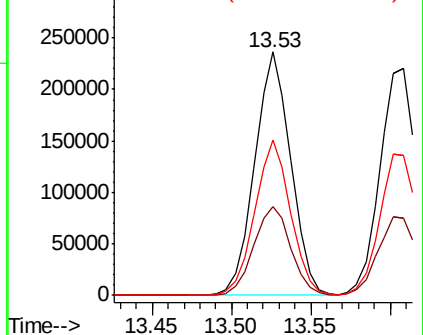
146 100

111 37.4 18.8 56.4

148 63.3 32.5 97.5



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 50.861 ug/l

RT: 13.61 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

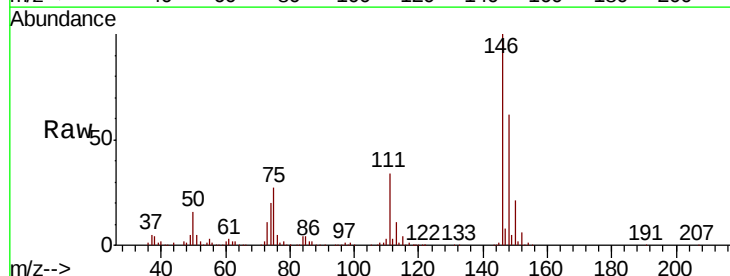
Tgt Ion:146 Resp: 358358

Ion Ratio Lower Upper

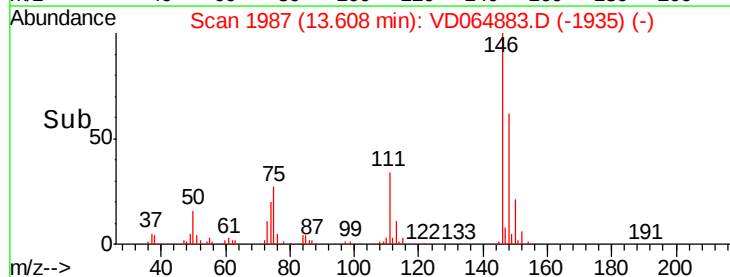
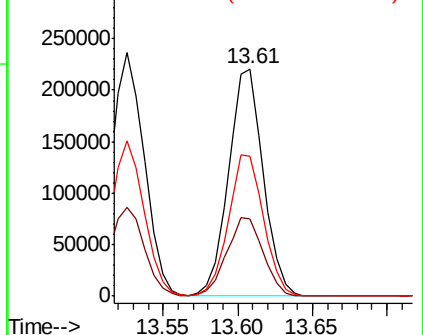
146 100

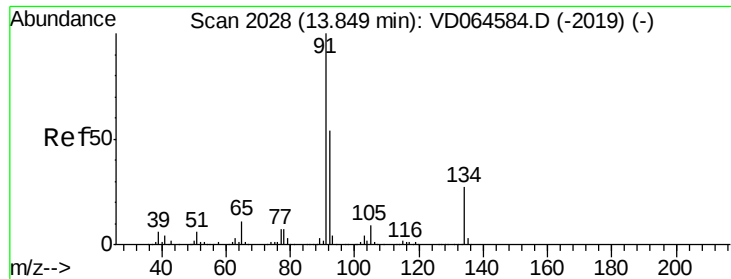
111 36.3 18.1 54.1

148 63.1 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V

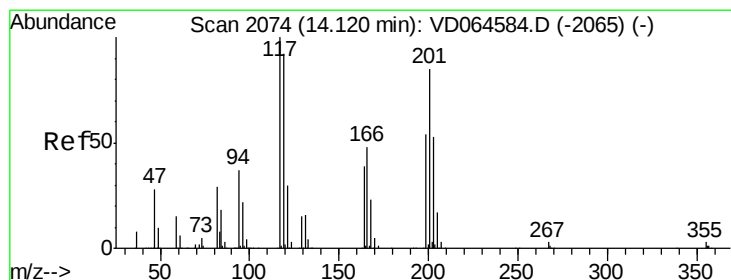
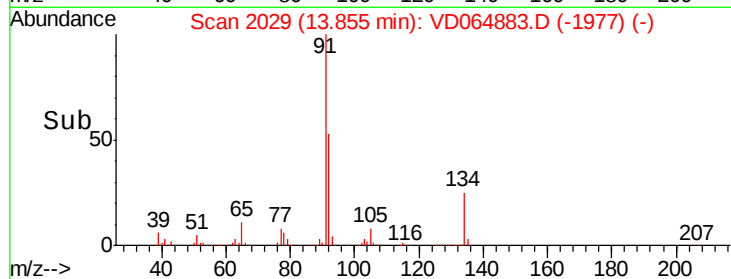
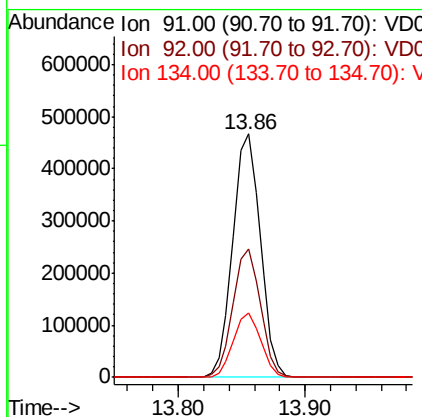
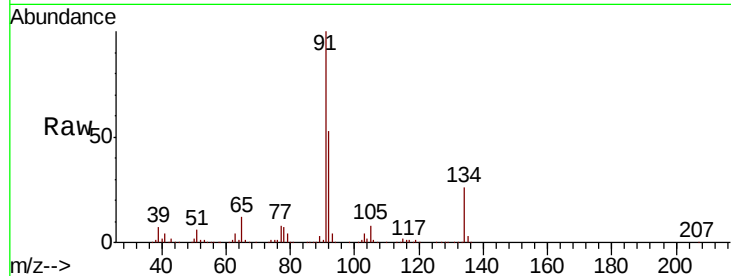




#89  
n-Butylbenzene  
Concen: 54.492 ug/l  
RT: 13.86 min Scan# 2029  
Delta R.T. 0.01 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

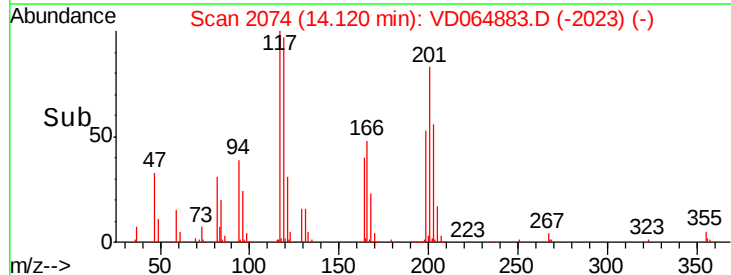
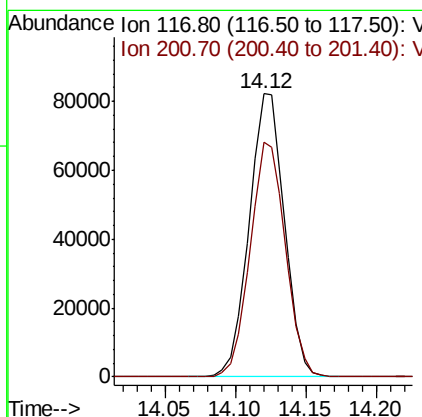
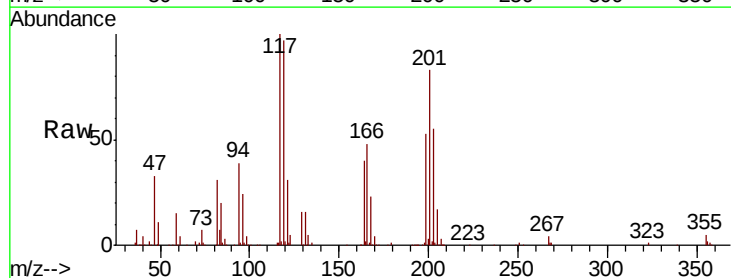
Instrument :  
MSVOA\_D  
ClientSampleId :

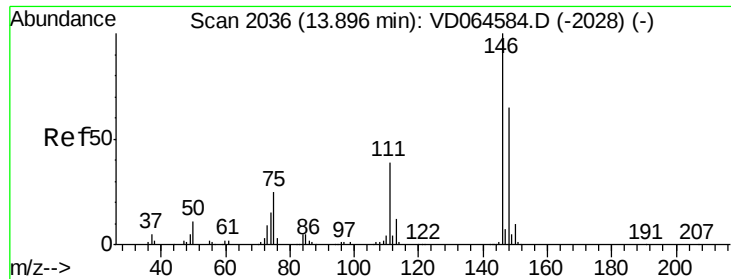
Tot Ion: 91 Resp: 702502  
Ion Ratio Lower Upper  
91 100  
92 52.5 26.8 80.4  
134 26.3 14.0 41.9



#90  
Hexachloroethane  
Concen: 52.699 ug/l  
RT: 14.12 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: VD064883.D  
Acq: 20 Jan 2020 11:46

Tgt Ion: 117 Resp: 144112  
Ion Ratio Lower Upper  
117 100  
201 83.0 44.0 131.8

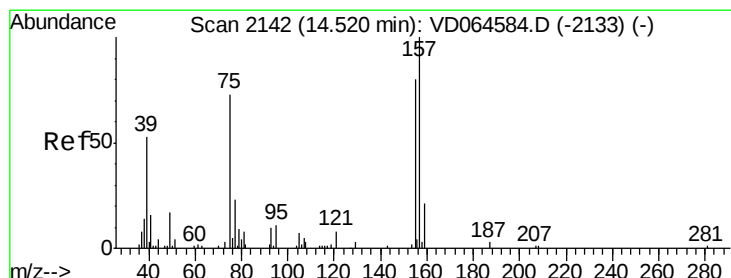
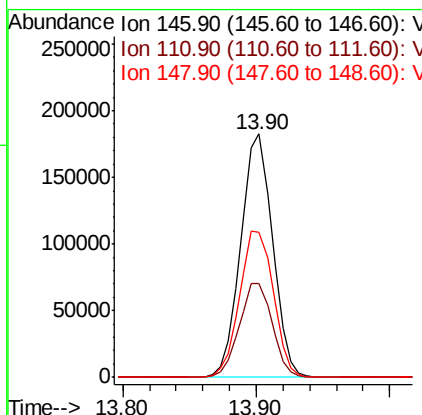
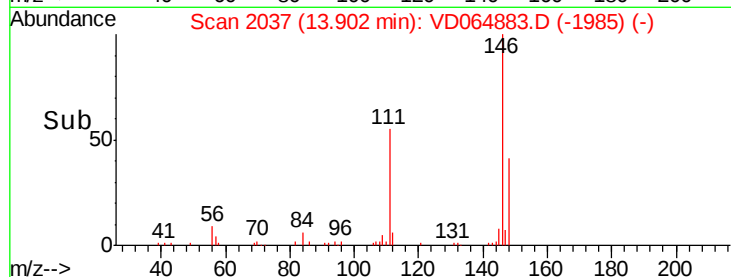
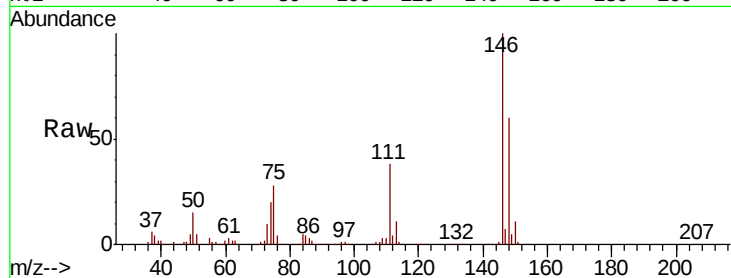




#91  
 1,2-Dichlorobenzene  
 Concen: 49.233 ug/l  
 RT: 13.90 min Scan# 2037  
 Delta R.T. 0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

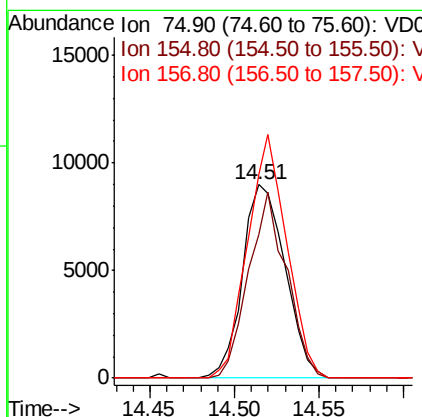
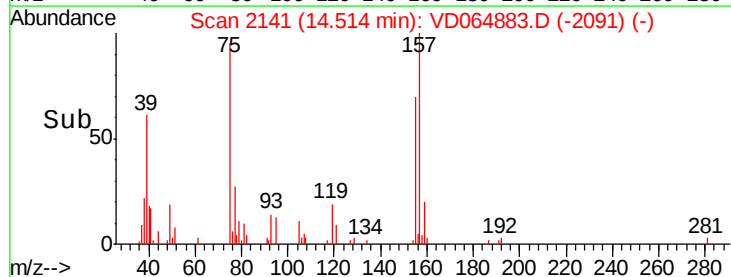
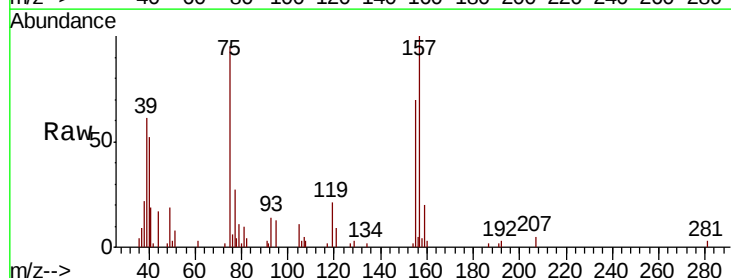
Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.8  | 19.3  | 57.9  |
| 148     | 64.0  | 31.9  | 95.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 40.543 ug/l  
 RT: 14.51 min Scan# 2141  
 Delta R.T. -0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 85.6  | 48.0  | 144.0 |
| 157     | 115.5 | 64.1  | 192.3 |

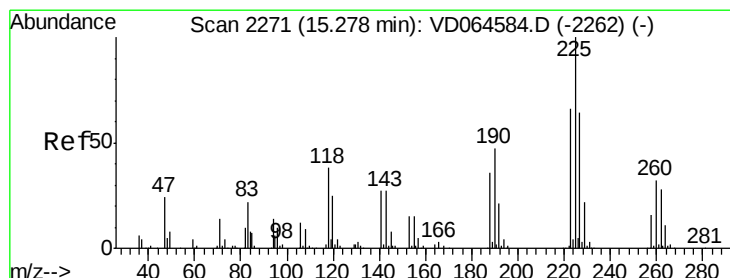
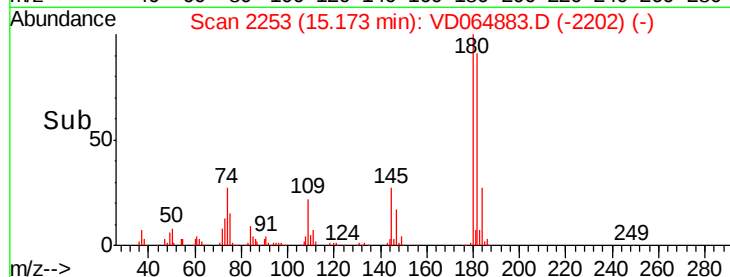
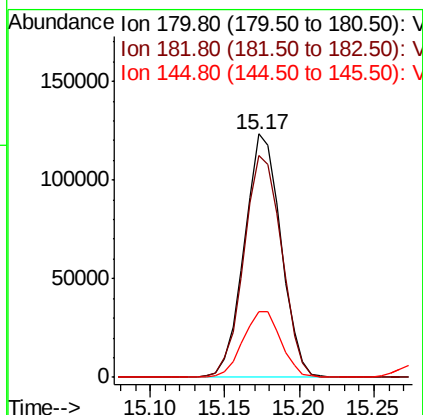
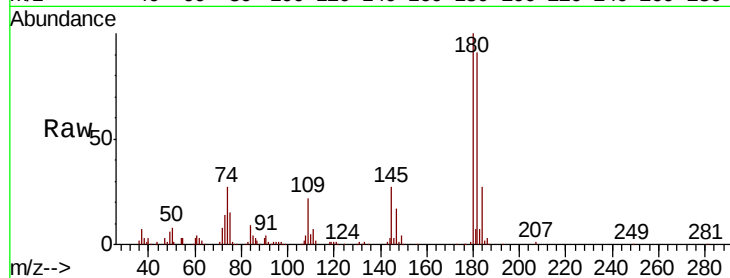




#93  
 1,2,4-Trichlorobenzene  
 Concen: 46.510 ug/l  
 RT: 15.17 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

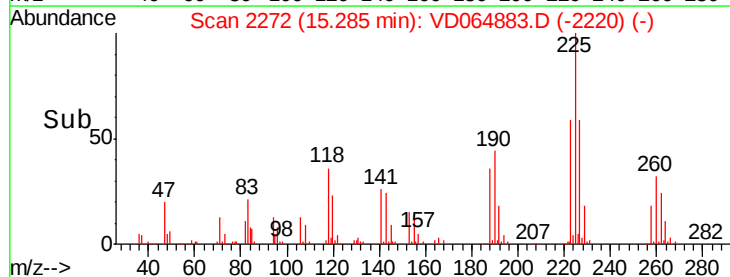
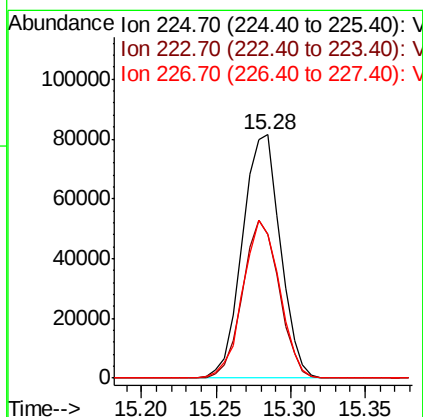
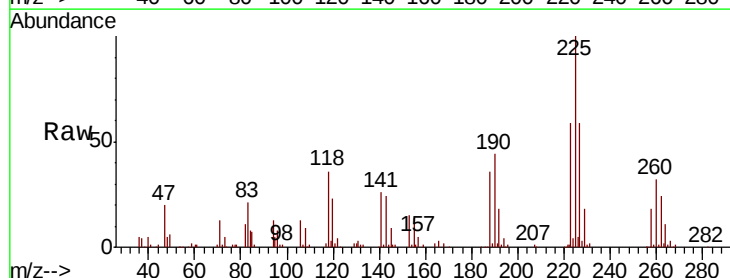
Instrument :  
 MSVOA\_D  
 ClientSampleId :

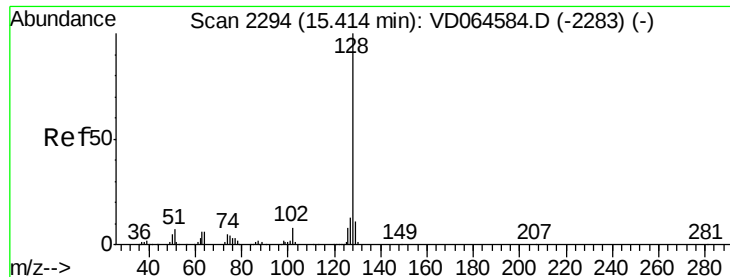
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.2  | 48.0  | 144.2 |
| 145     | 28.1  | 13.8  | 41.4  |



#94  
 Hexachlorobutadiene  
 Concen: 50.589 ug/l  
 RT: 15.28 min Scan# 2272  
 Delta R.T. 0.01 min  
 Lab File: VD064883.D  
 Acq: 20 Jan 2020 11:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.2  | 31.1  | 93.2  |
| 227     | 62.6  | 30.9  | 92.7  |





#95

Naphthalene

Concen: 40.254 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

Instrument :

MSVOA\_D

ClientSampleId :

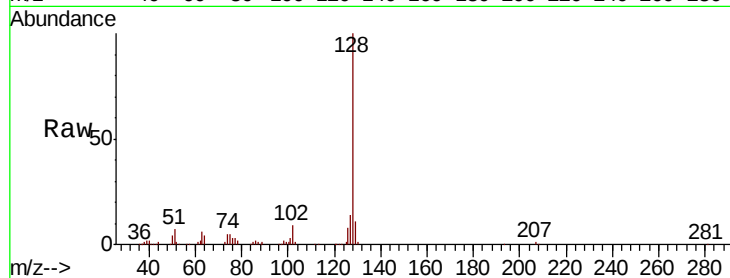
Tot Ion:128 Resp: 286768

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

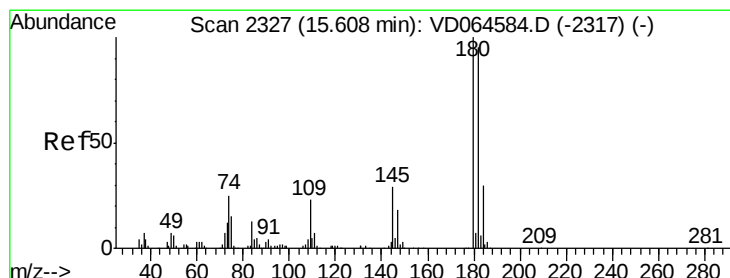
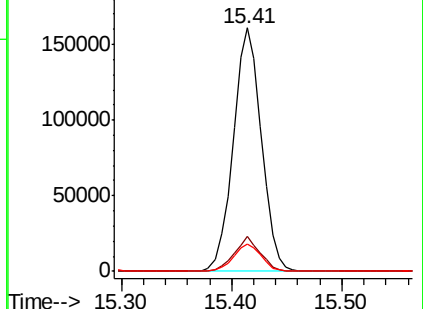
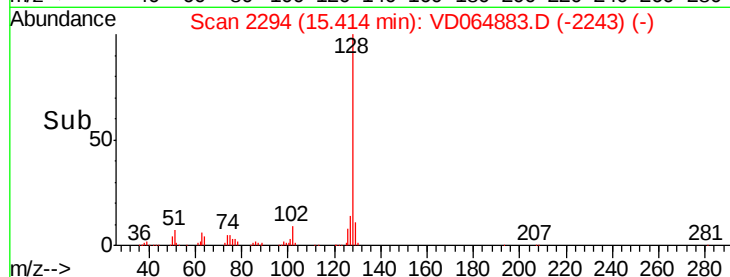
129 10.9 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 44.901 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VD064883.D

Acq: 20 Jan 2020 11:46

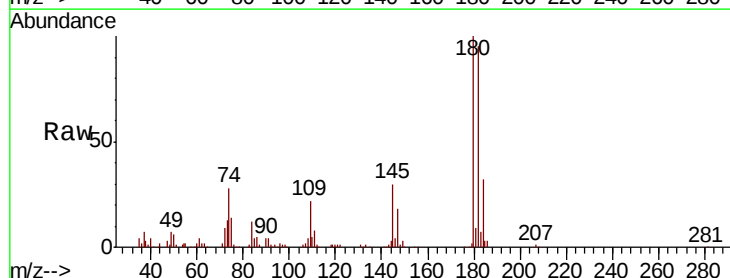
Tgt Ion:180 Resp: 172617

Ion Ratio Lower Upper

180 100

182 94.2 47.9 143.7

145 29.8 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

