

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051320\  
 Data File : VD065727.D  
 Acq On : 13 May 2020 12:27  
 Operator : VA/SY  
 Sample : VSTDIC010  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 13 13:49:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 13:42:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 387433   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 572644   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 502759   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 249575   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |        |      |
|---------------------------|--------|-----|----------|------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 29934    | 8.06 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 16.12% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 30703    | 8.79 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 17.58% |      |
| 50) Toluene-d8            | 10.34  | 98  | 117960   | 8.84 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 17.68% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 40804    | 8.67 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 17.34% |      |

## Target Compounds

|                               |      |     |        |        | Qvalue |     |
|-------------------------------|------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 22951  | 7.755  | ug/l   | 94  |
| 3) Chloromethane              | 2.21 | 50  | 36661  | 9.660  | ug/l   | 98  |
| 4) Vinyl Chloride             | 2.35 | 62  | 38673  | 9.986  | ug/l   | 97  |
| 5) Bromomethane               | 2.77 | 94  | 26560  | 10.775 | ug/l   | 82  |
| 6) Chloroethane               | 2.92 | 64  | 24786  | 9.888  | ug/l   | 100 |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 53692  | 8.851  | ug/l   | 96  |
| 8) Diethyl Ether              | 3.71 | 74  | 15938  | 8.463  | ug/l   | 97  |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 34150  | 9.277  | ug/l   | 99  |
| 10) Methyl Iodide             | 4.30 | 142 | 29376  | 8.076  | ug/l   | 97  |
| 11) Tert butyl alcohol        | 5.19 | 59  | 11718  | 34.876 | ug/l # | 89  |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 32538  | 9.012  | ug/l   | 91  |
| 13) Acrolein                  | 3.92 | 56  | 12075  | 40.551 | ug/l   | 99  |
| 14) Allyl chloride            | 4.71 | 41  | 56036  | 7.931  | ug/l   | 97  |
| 15) Acrylonitrile             | 5.43 | 53  | 34983  | 40.003 | ug/l   | 98  |
| 16) Acetone                   | 4.16 | 43  | 34135  | 43.585 | ug/l   | 95  |
| 17) Carbon Disulfide          | 4.41 | 76  | 99790  | 8.493  | ug/l   | 99  |
| 18) Methyl Acetate            | 4.71 | 43  | 17680  | 9.026  | ug/l   | 95  |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 74035  | 8.569  | ug/l   | 98  |
| 20) Methylene Chloride        | 4.96 | 84  | 36656  | 9.036  | ug/l # | 93  |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 36369  | 8.784  | ug/l   | 95  |
| 22) Diisopropyl ether         | 6.37 | 45  | 105232 | 8.022  | ug/l   | 94  |
| 23) Vinyl Acetate             | 6.31 | 43  | 309958 | 39.258 | ug/l   | 99  |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 61298  | 8.431  | ug/l   | 99  |
| 25) 2-Butanone                | 7.22 | 43  | 46991  | 40.328 | ug/l   | 92  |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 58613  | 8.908  | ug/l   | 100 |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 41170  | 9.191  | ug/l   | 100 |
| 28) Bromochloromethane        | 7.55 | 49  | 24337  | 8.019  | ug/l   | 100 |
| 29) Tetrahydrofuran           | 7.57 | 42  | 30111  | 40.010 | ug/l   | 99  |
| 30) Chloroform                | 7.71 | 83  | 63097  | 8.963  | ug/l   | 95  |
| 31) Cyclohexane               | 7.99 | 56  | 64467  | 8.584  | ug/l # | 85  |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 59254  | 9.044  | ug/l   | 98  |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 50484  | 9.107  | ug/l   | 99  |
| 37) Ethyl Acetate             | 7.30 | 43  | 22987  | 8.796  | ug/l # | 94  |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 52914  | 9.528  | ug/l   | 97  |

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 Sample : VSTDIC010  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 13 13:49:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 13:42:35 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 65674    | 9.450   | ug/l   | 98       |
| 40) Benzene                    | 8.36  | 78   | 137084   | 9.043   | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.53  | 41   | 10557    | 6.914   | ug/l   | 87       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 38696    | 8.895   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 43580    | 8.334   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 42088    | 9.947   | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 34002    | 8.742   | ug/l   | 97       |
| 46) Dibromomethane             | 9.48  | 93   | 18750    | 9.523   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.66  | 83   | 47928    | 9.102   | ug/l   | 89       |
| 48) Methyl methacrylate        | 9.46  | 41   | 19517    | 7.470   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 4369     | 182.651 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 104540   | 41.466  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 91641    | 9.506   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 47163    | 8.905   | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 56291    | 8.974   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 25734    | 9.698   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 33063    | 8.727   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 44043    | 9.265   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 77902    | 44.431  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 70285    | 40.691  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 32475    | 9.038   | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 24582    | 9.206   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 35683    | 10.081  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.67 | 112  | 97976    | 9.808   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 36128    | 9.716   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 171858   | 9.283   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 133194   | 19.223  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 61351    | 9.485   | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 105914   | 9.545   | ug/l   | 98       |
| 71) Bromoform                  | 12.36 | 173  | 19439    | 9.279   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 169890   | 9.183   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 39282    | 7.646   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 26768    | 8.698   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 37769    | 18.241  | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 41018    | 9.593   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 197269   | 9.082   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 110418   | 9.009   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 141282   | 9.323   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 9580     | 8.332   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 116777   | 9.092   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 125620   | 9.669   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 136646   | 9.039   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 173094   | 9.568   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 156627   | 9.469   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 78377    | 9.774   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 76090    | 9.599   | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.85 | 91   | 145655   | 9.141   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 30362    | 9.245   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 67368    | 9.740   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 4623     | 9.025   | ug/l   | 93       |

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Operator : VA/SY  
Sample : VSTDICC010  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

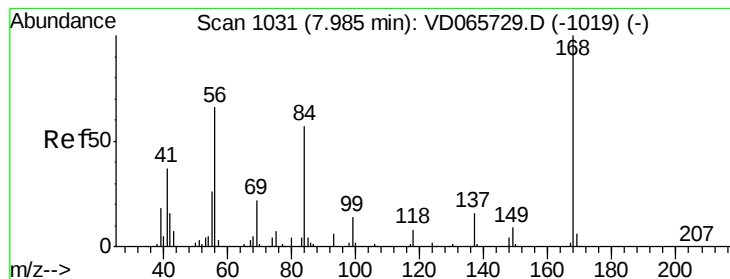
Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: May 13 13:49:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 13 13:42:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 50997    | 9.829  | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 30631    | 10.152 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 84758    | 9.367  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 44095    | 9.992  | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

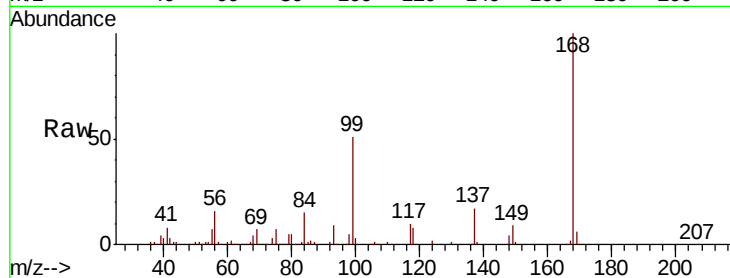
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 387433

Ion Ratio Lower Upper

168 100

99 51.3 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

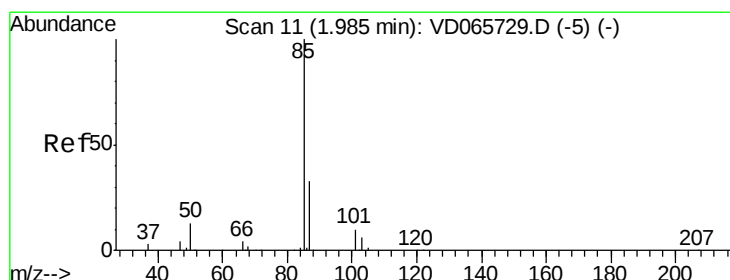
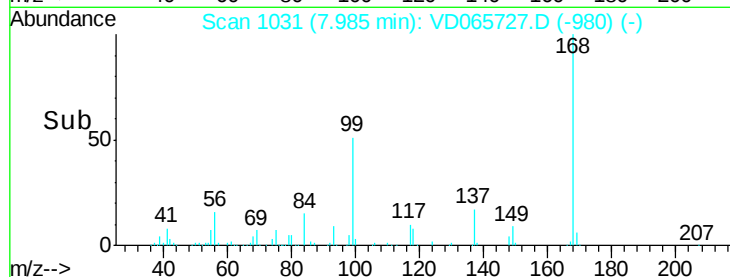
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 7.755 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065727.D

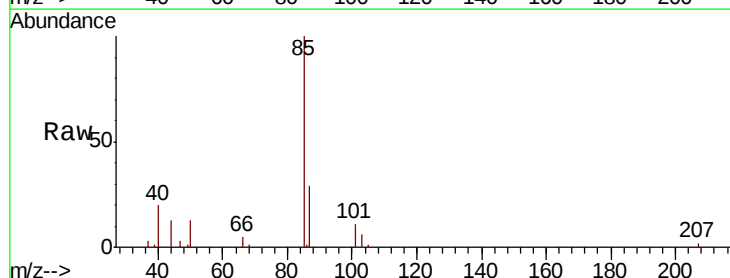
Acq: 13 May 2020 12:27

Tgt Ion: 85 Resp: 22951

Ion Ratio Lower Upper

85 100

87 29.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

20000

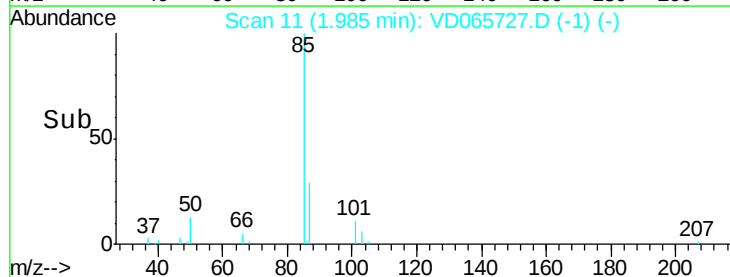
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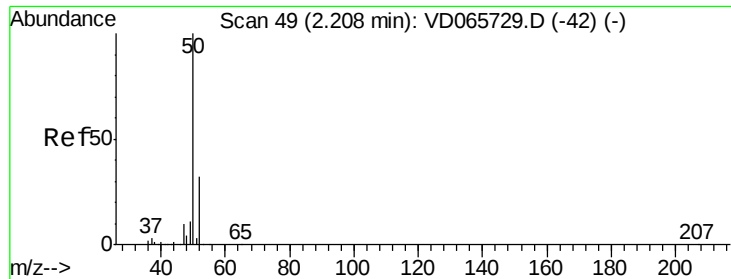
10000

5000

0

Time-->





#3

Chloromethane

Concen: 9.660 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

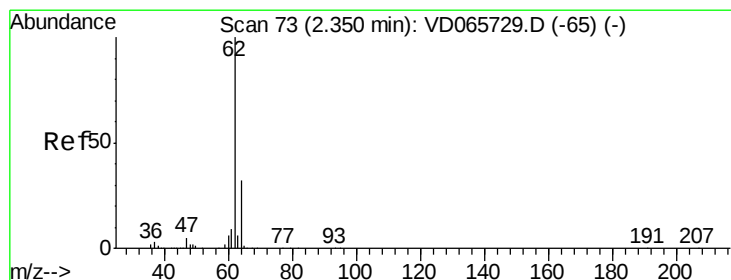
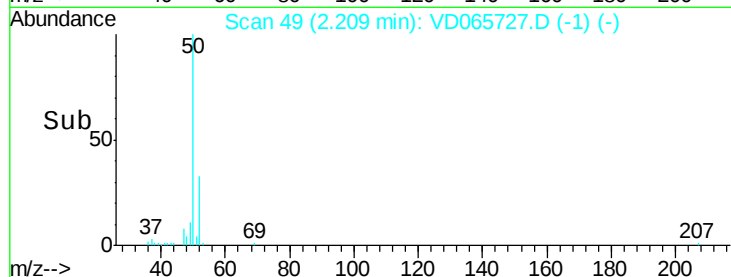
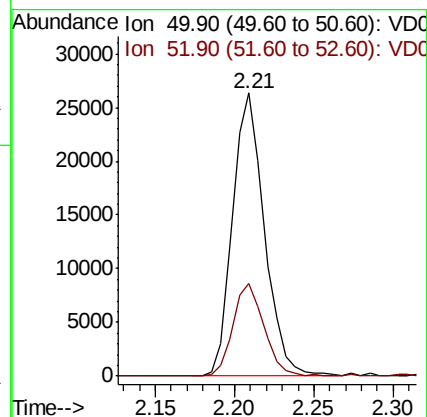
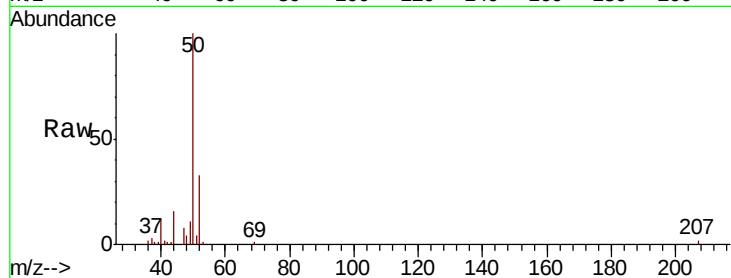
ClientSampled :

Tot Ion: 50 Resp: 36661

Ion Ratio Lower Upper

50 100

52 33.0 25.5 38.3



#4

Vinyl Chloride

Concen: 9.986 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065727.D

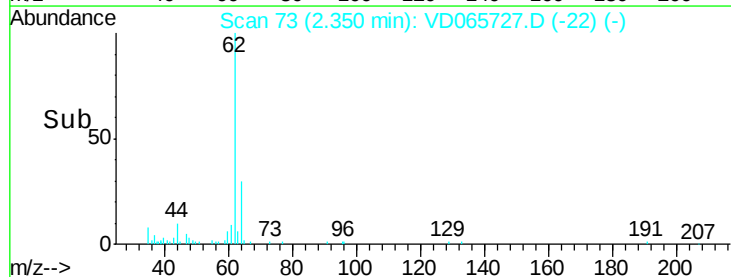
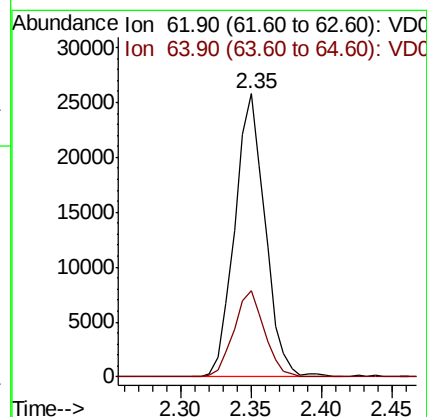
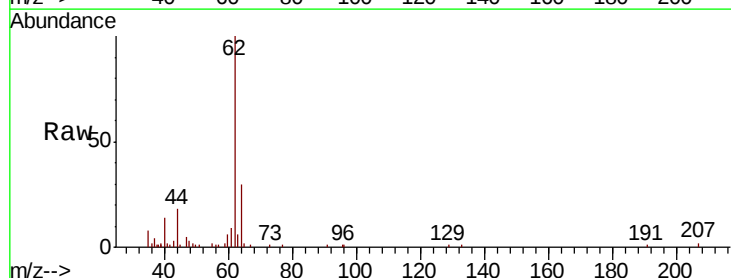
Acq: 13 May 2020 12:27

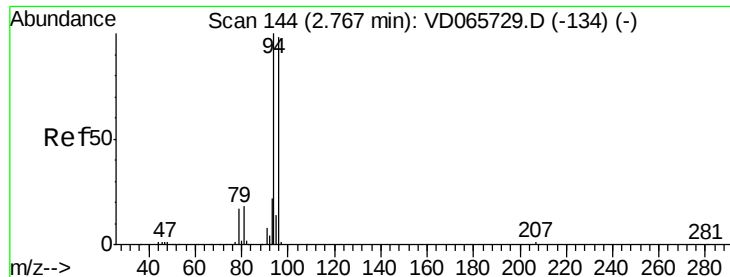
Tgt Ion: 62 Resp: 38673

Ion Ratio Lower Upper

62 100

64 30.5 25.8 38.6





#5

Bromomethane

Concen: 10.775 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

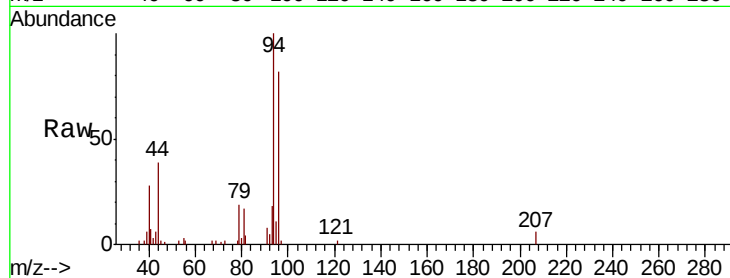
ClientSampleId :

Tot Ion: 94 Resp: 26560

Ion Ratio Lower Upper

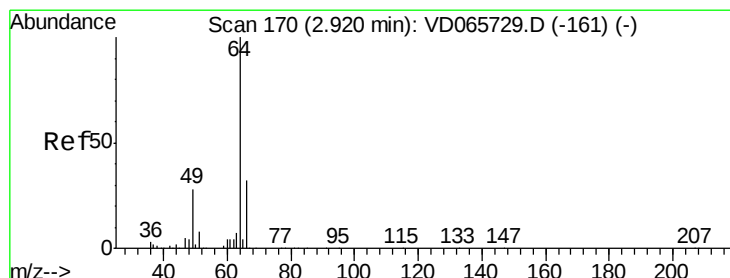
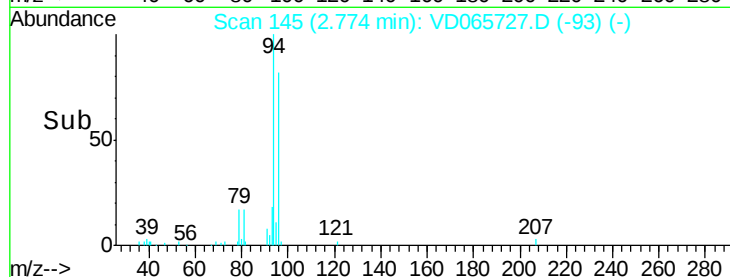
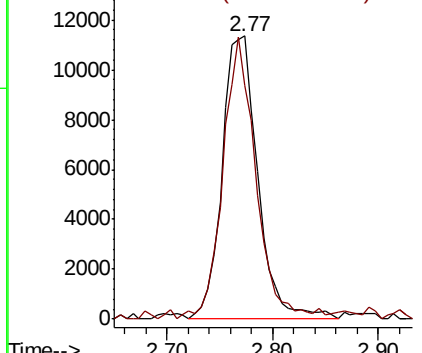
94 100

96 79.8 78.1 117.1



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 9.888 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD065727.D

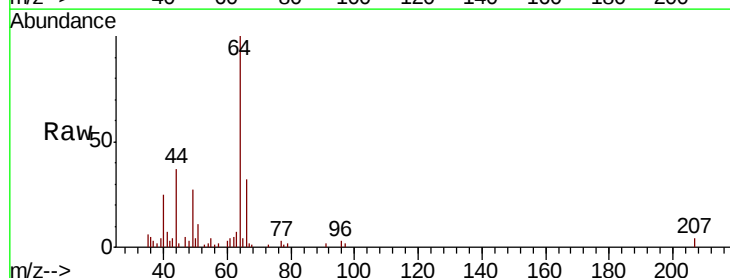
Acq: 13 May 2020 12:27

Tgt Ion: 64 Resp: 24786

Ion Ratio Lower Upper

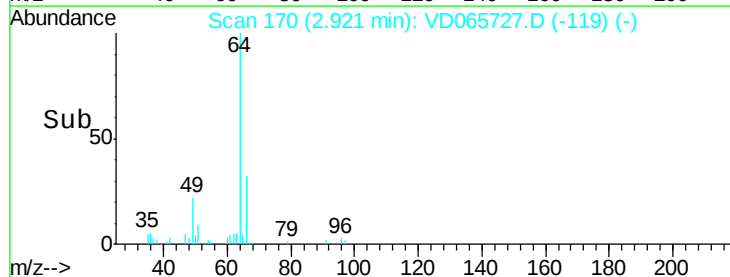
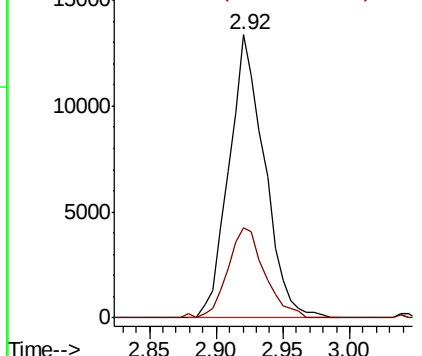
64 100

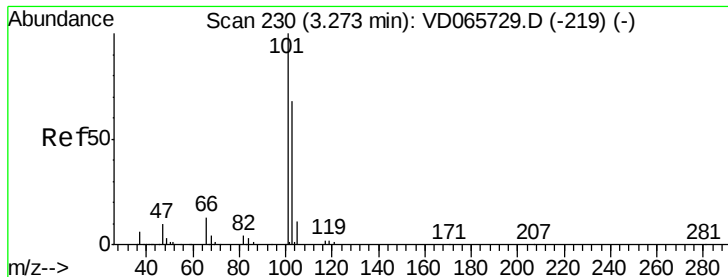
66 31.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



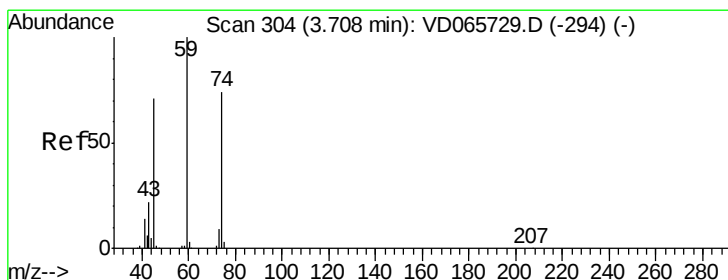
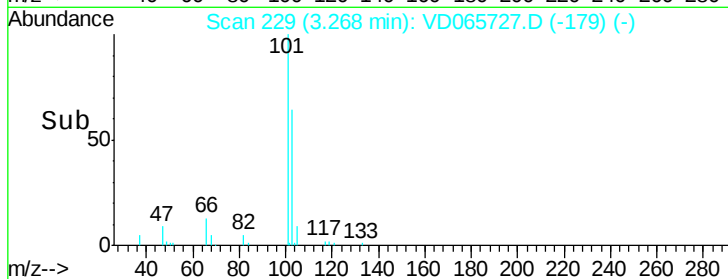
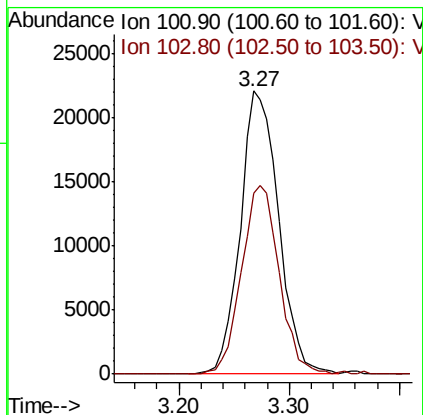
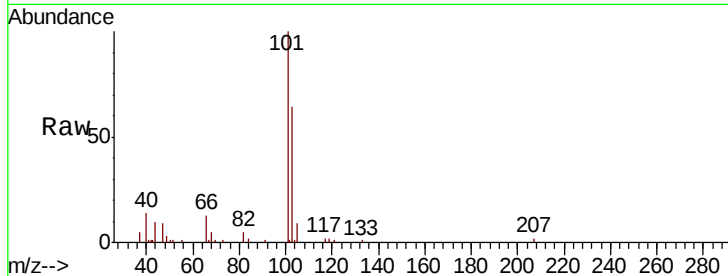


#7

Trichlorofluoromethane  
 Concen: 8.851 ug/l  
 RT: 3.27 min Scan# 229  
 Delta R.T. -0.01 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Instrument :  
 MSVOA\_D  
 ClientSampleId :

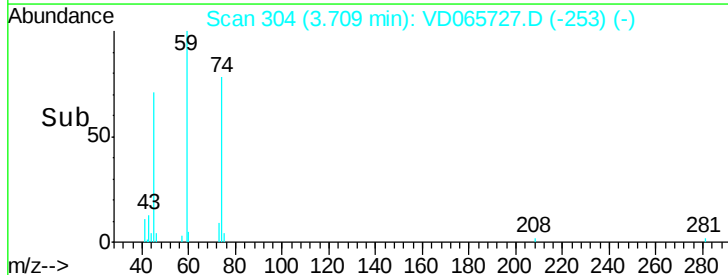
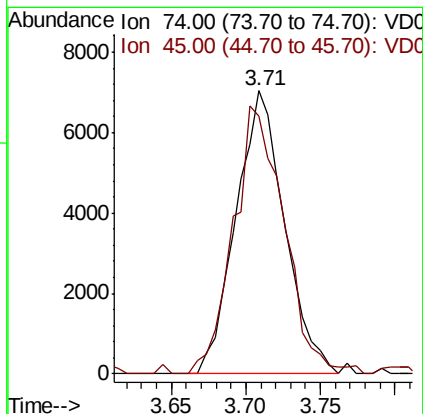
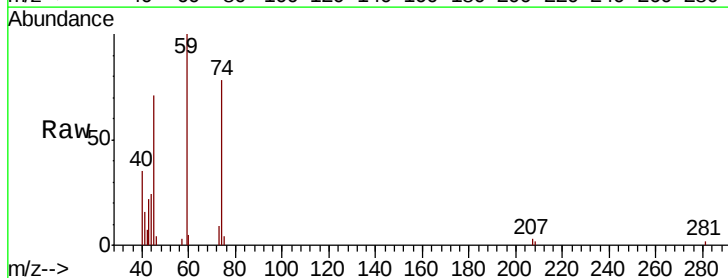
Tot Ion:101 Resp: 53692  
 Ion Ratio Lower Upper  
 101 100  
 103 64.0 54.1 81.1

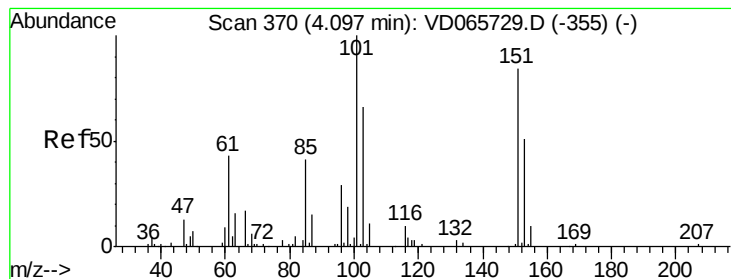


#8

Diethyl Ether  
 Concen: 8.463 ug/l  
 RT: 3.71 min Scan# 304  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 74 Resp: 15938  
 Ion Ratio Lower Upper  
 74 100  
 45 98.7 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.277 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampled :

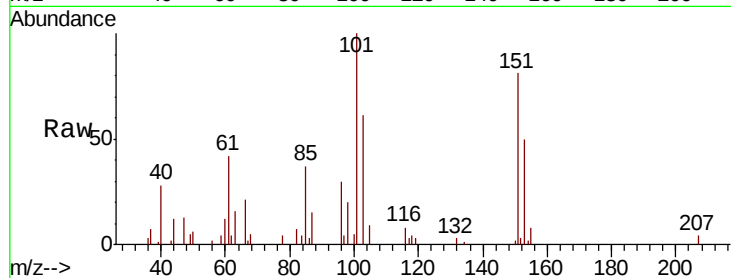
Tot Ion:101 Resp: 34150

Ion Ratio Lower Upper

101 100

85 43.2 34.1 51.1

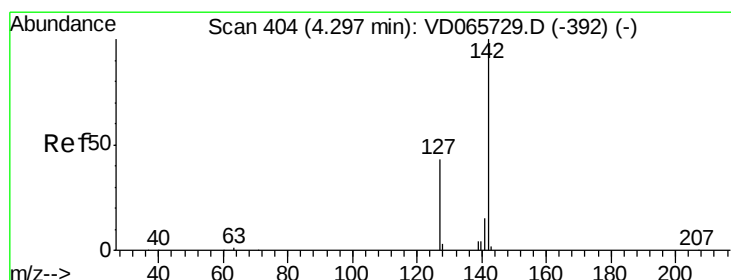
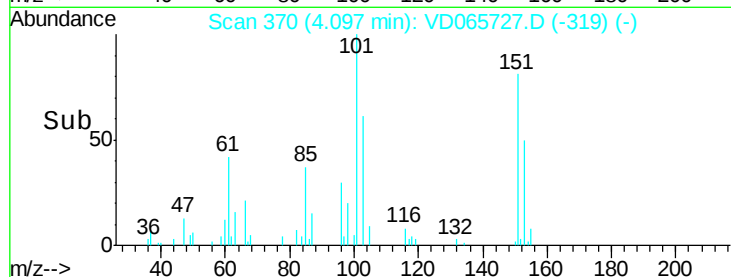
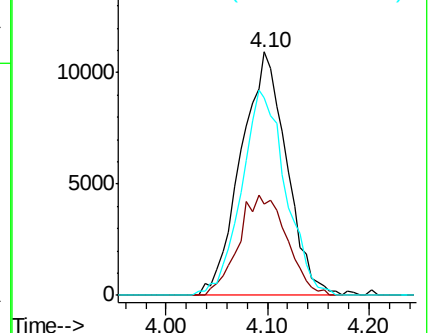
151 81.8 65.1 97.7



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: 8.076 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

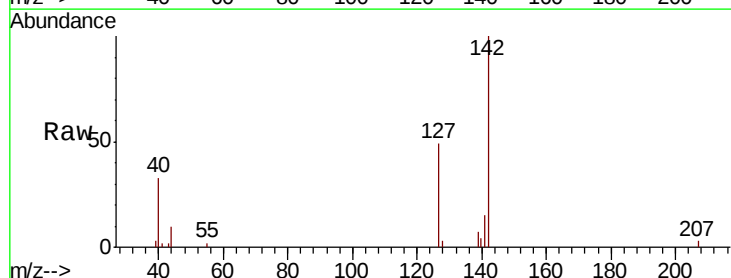
Tgt Ion:142 Resp: 29376

Ion Ratio Lower Upper

142 100

127 45.2 34.2 51.4

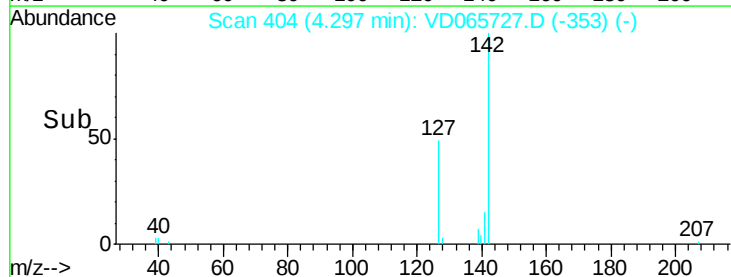
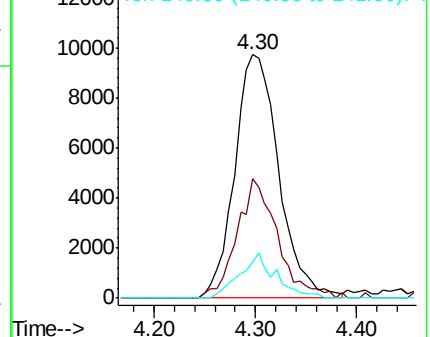
141 15.2 11.7 17.5

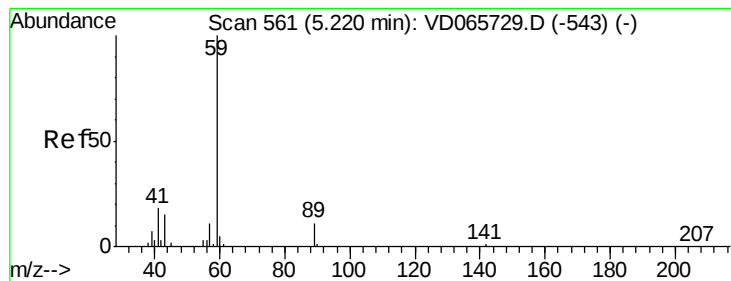


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 34.876 ug/l

RT: 5.19 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

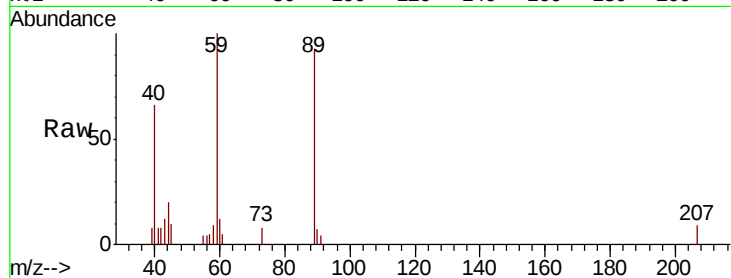
ClientSampled :

Tot Ion: 59 Resp: 11718

Ion Ratio Lower Upper

59 100

57 5.0 7.4 11.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5000

4000

3000

2000

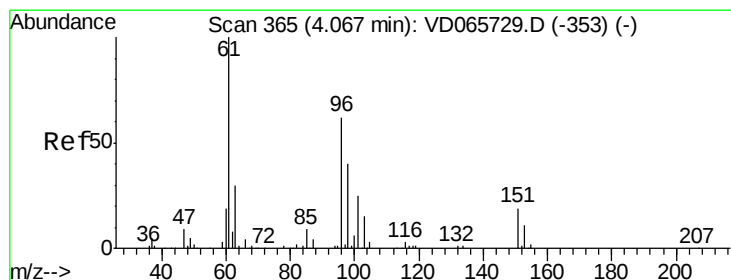
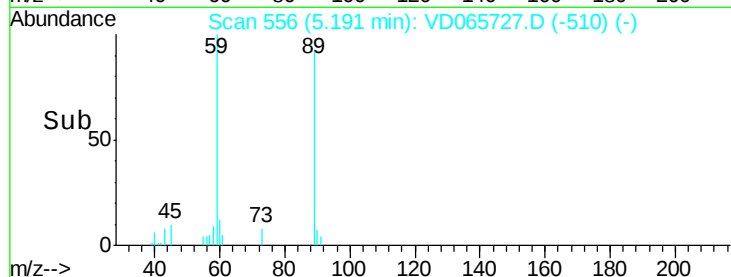
1000

0

Time-->

5.10 5.15 5.20

5.19



#12

1,1-Dichloroethene

Concen: 9.012 ug/l

RT: 4.07 min Scan# 365

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

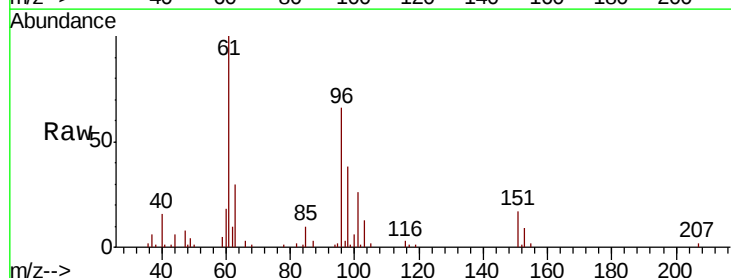
Tgt Ion: 96 Resp: 32538

Ion Ratio Lower Upper

96 100

61 150.8 130.0 195.0

98 58.0 52.3 78.5



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

25000

20000

15000

10000

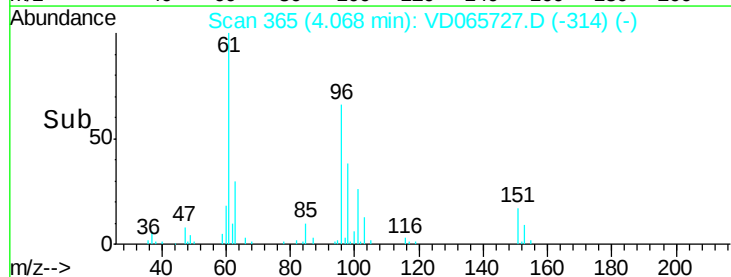
5000

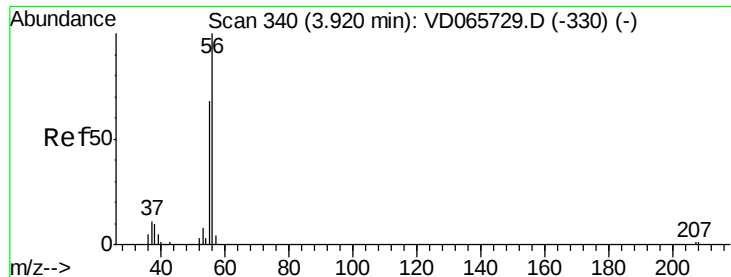
0

Time-->

4.00 4.10

4.07





#13

Acrolein

Concen: 40.551 ug/l

RT: 3.92 min Scan# 340

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

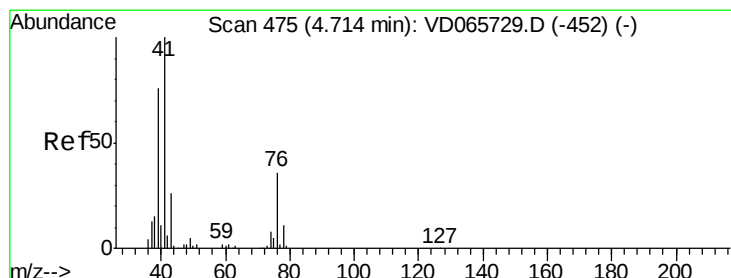
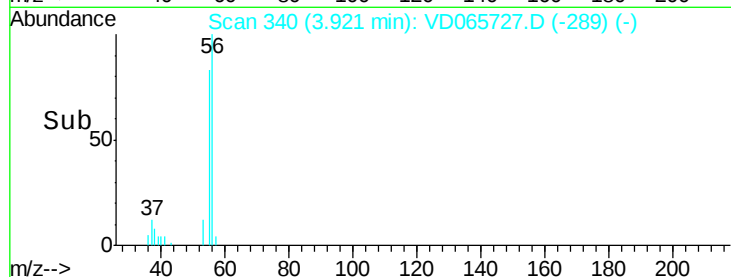
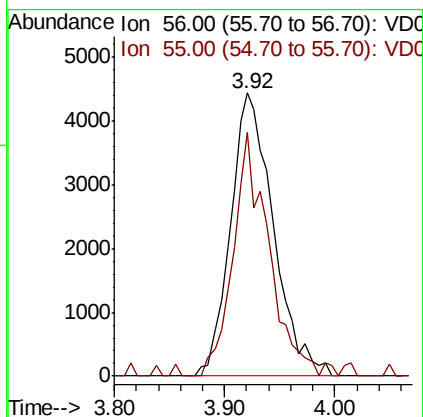
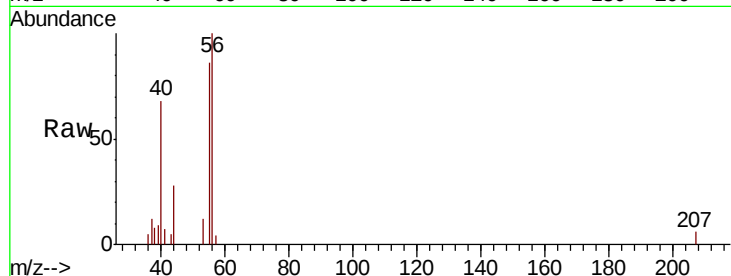
ClientSampleId :

Tot Ion: 56 Resp: 12075

Ion Ratio Lower Upper

56 100

55 71.4 57.8 86.8



#14

Allyl chloride

Concen: 7.931 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

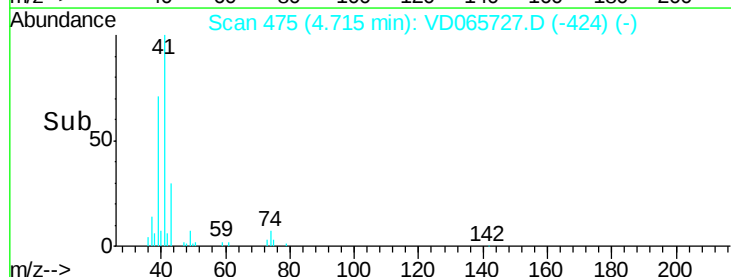
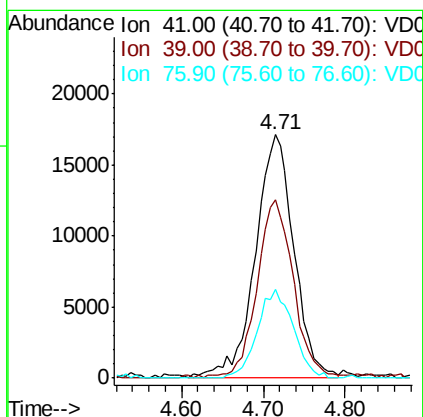
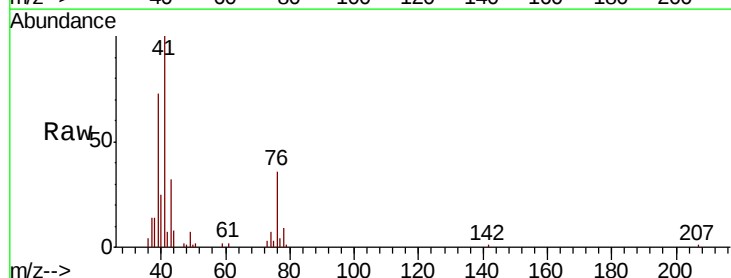
Tgt Ion: 41 Resp: 56036

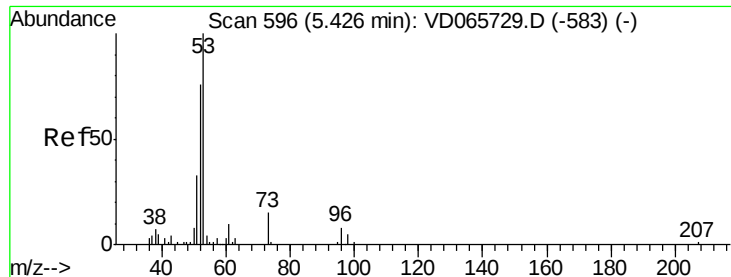
Ion Ratio Lower Upper

41 100

39 69.2 57.4 86.2

76 33.9 28.4 42.6





#15

Acrylonitrile

Concen: 40.003 ug/l

RT: 5.43 min Scan# 596

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampled :

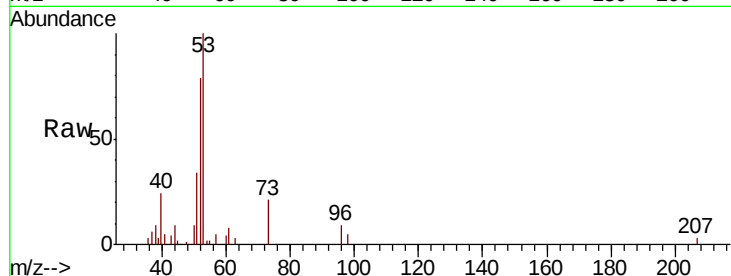
Tot Ion: 53 Resp: 34983

Ion Ratio Lower Upper

53 100

52 85.3 66.3 99.5

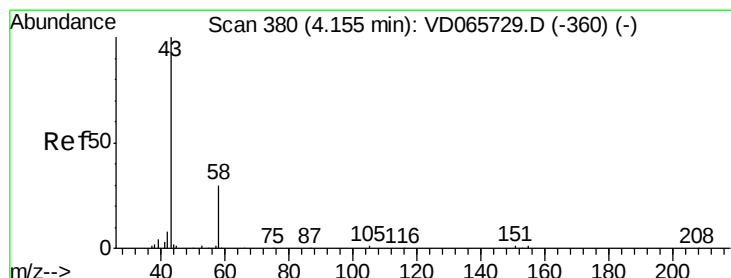
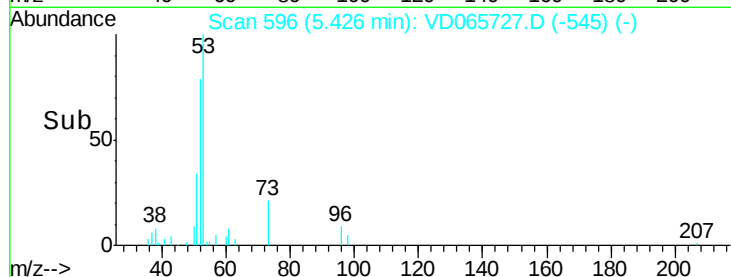
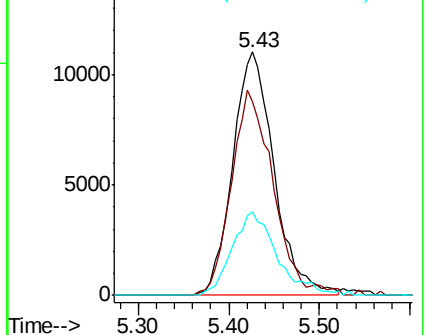
51 37.3 29.2 43.8



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 43.585 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065727.D

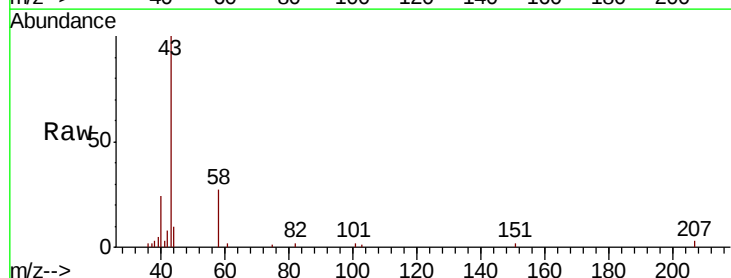
Acq: 13 May 2020 12:27

Tgt Ion: 43 Resp: 34135

Ion Ratio Lower Upper

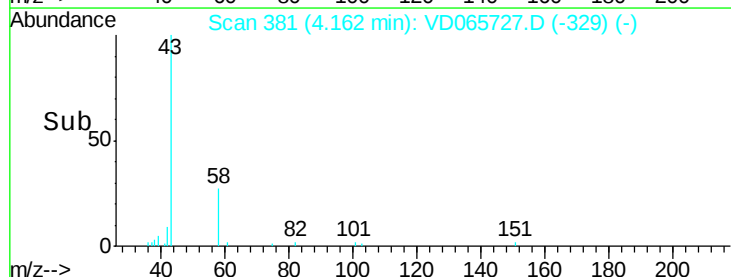
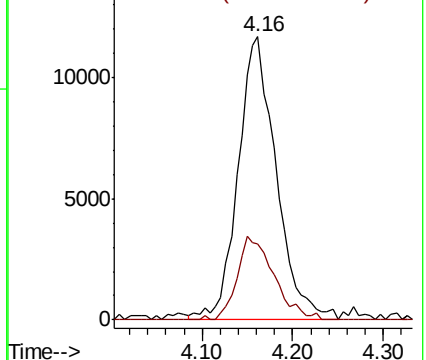
43 100

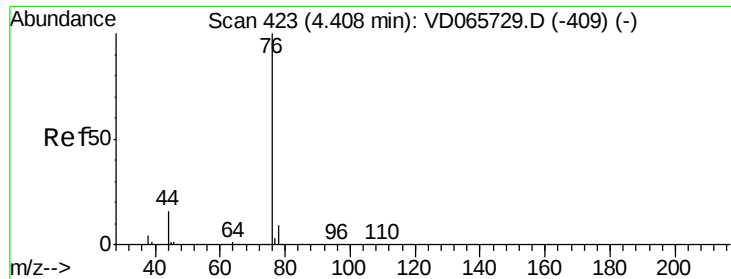
58 26.8 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

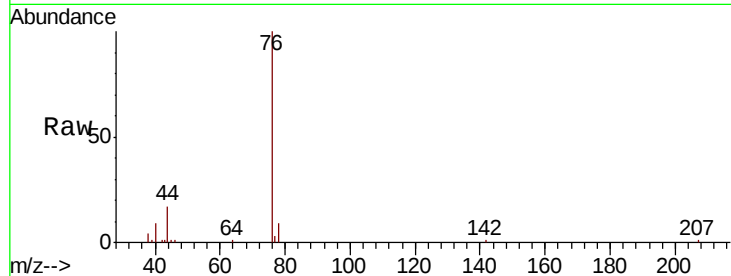




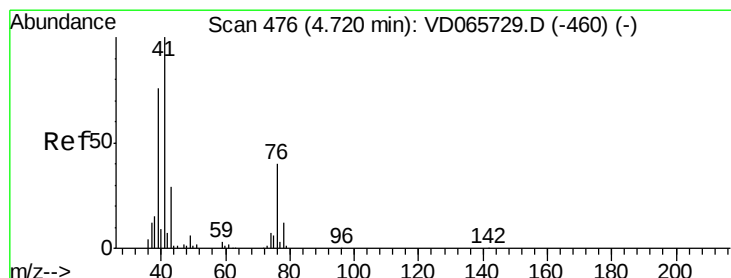
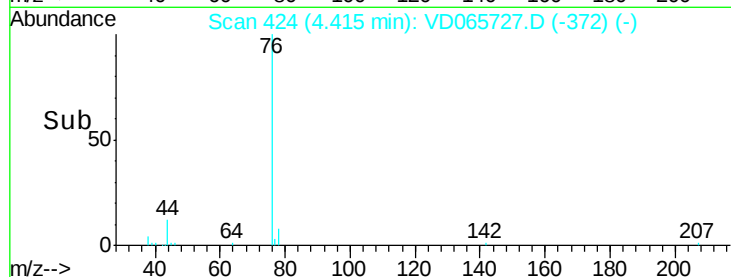
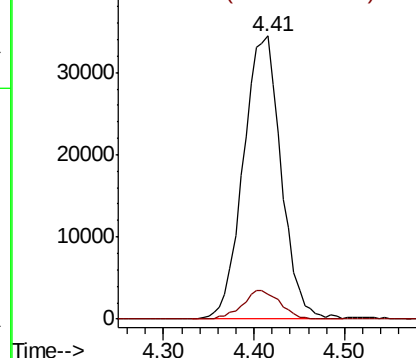
#17  
Carbon Disulfide  
Concen: 8.493 ug/l  
RT: 4.41 min Scan# 424  
Delta R.T. 0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 76 Resp: 99790  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.4 11.0

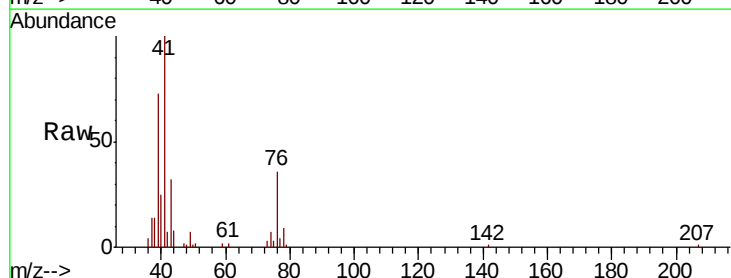


Abundance Ion 75.90 (75.60 to 76.60): VDC  
Ion 77.90 (77.60 to 78.60): VDC

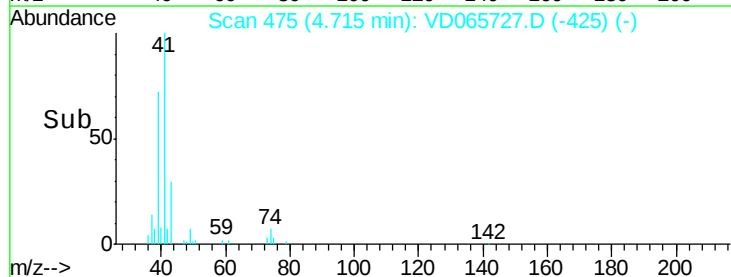
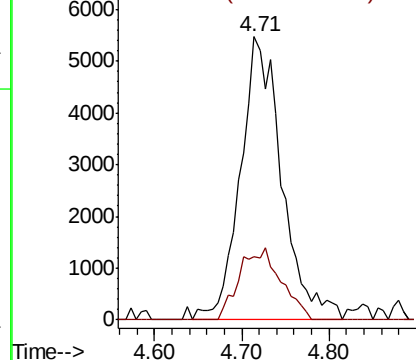


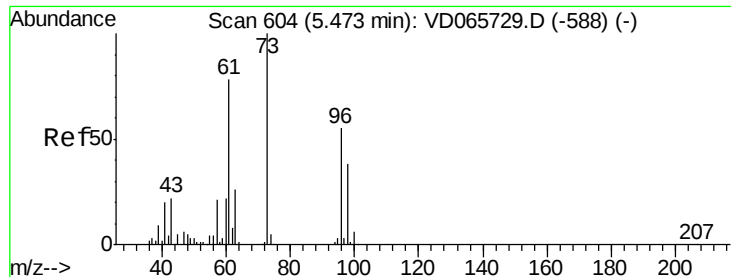
#18  
Methyl Acetate  
Concen: 9.026 ug/l  
RT: 4.71 min Scan# 475  
Delta R.T. -0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 43 Resp: 17680  
Ion Ratio Lower Upper  
43 100  
74 25.4 18.6 27.8



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

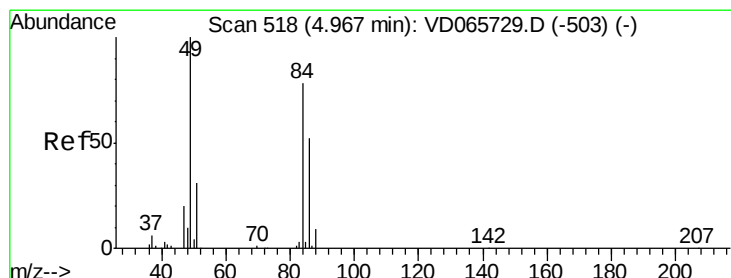
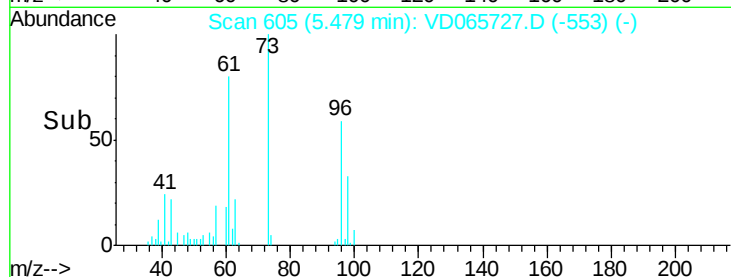
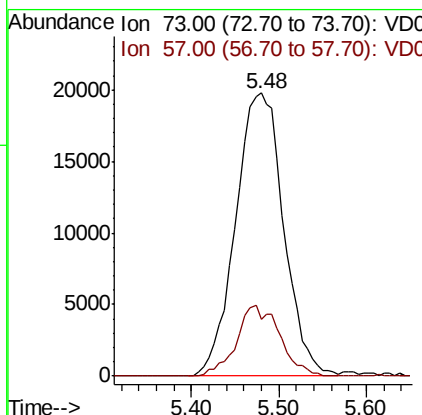
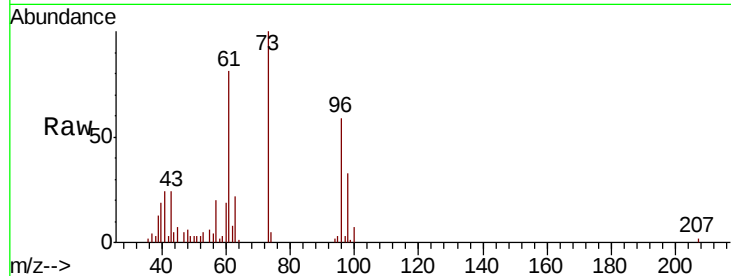




#19  
Methvl tert-butvl Ether  
Concen: 8.569 ug/l  
RT: 5.48 min Scan# 605  
Delta R.T. 0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

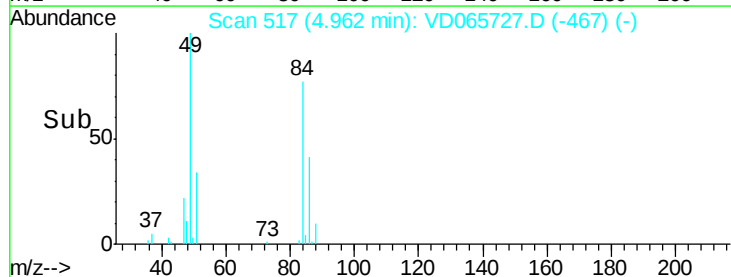
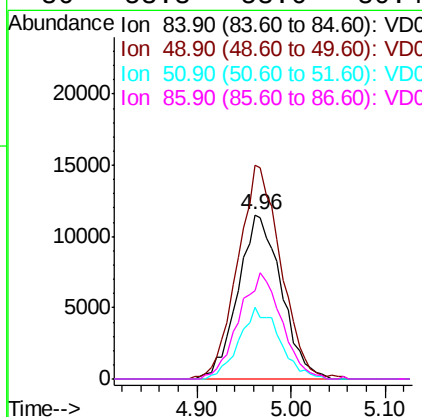
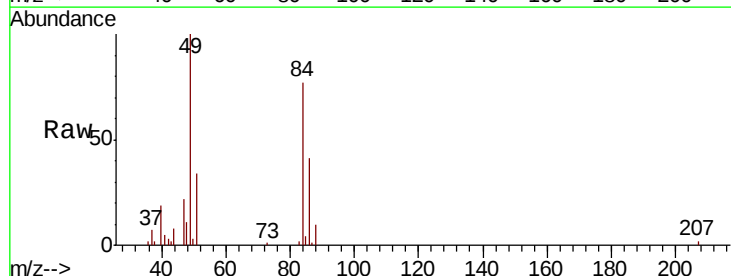
Instrument :  
MSVOA\_D  
ClientSampleId :

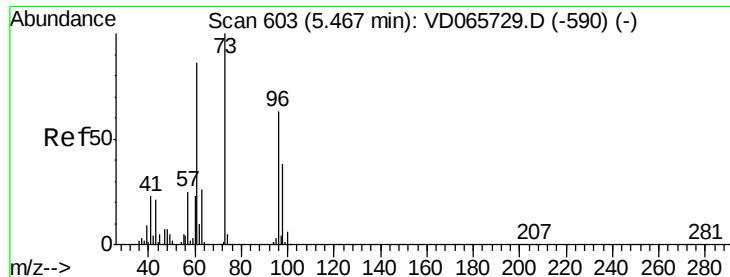
Tot Ion: 73 Resp: 74035  
Ion Ratio Lower Upper  
73 100  
57 20.1 17.0 25.4



#20  
Methylene Chloride  
Concen: 9.036 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 84 Resp: 36656  
Ion Ratio Lower Upper  
84 100  
49 129.9 102.9 154.3  
51 43.6 31.5 47.3  
86 53.3 53.6 80.4#





#21

trans-1,2-Dichloroethene

Concen: 8.784 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampleId :

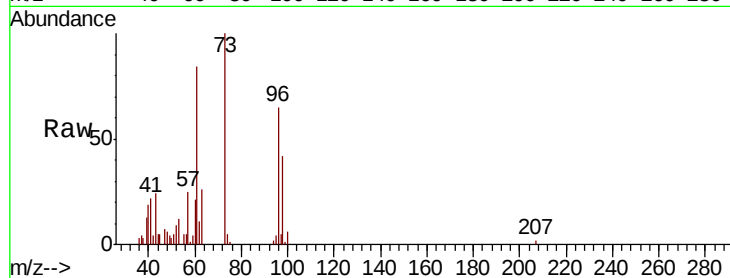
Tot Ion: 96 Resp: 36369

Ion Ratio Lower Upper

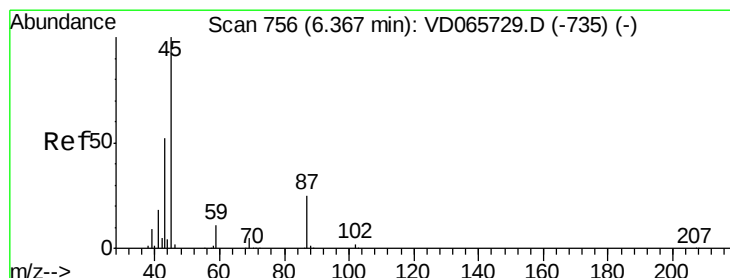
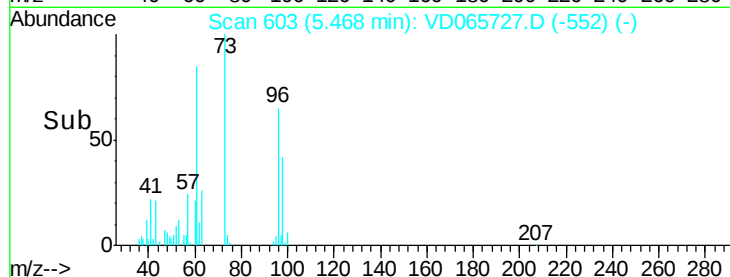
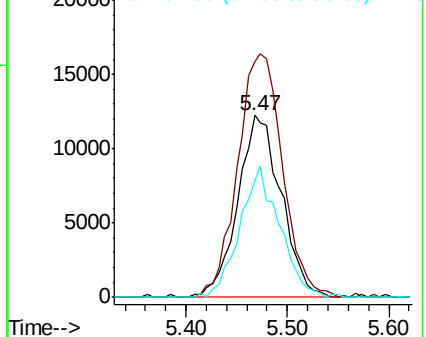
96 100

61 130.1 108.6 163.0

98 64.0 47.9 71.9



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



#22

Diisopropyl ether

Concen: 8.022 ug/l

RT: 6.37 min Scan# 756

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Tgt Ion: 45 Resp: 105232

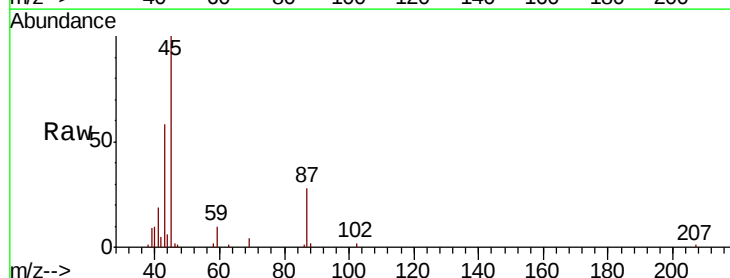
Ion Ratio Lower Upper

45 100

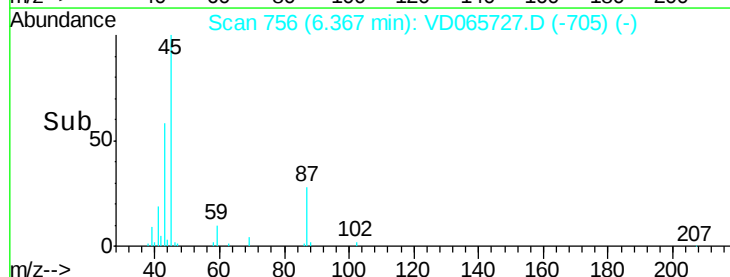
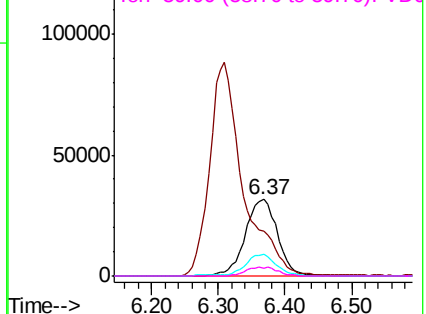
43 56.8 41.8 62.6

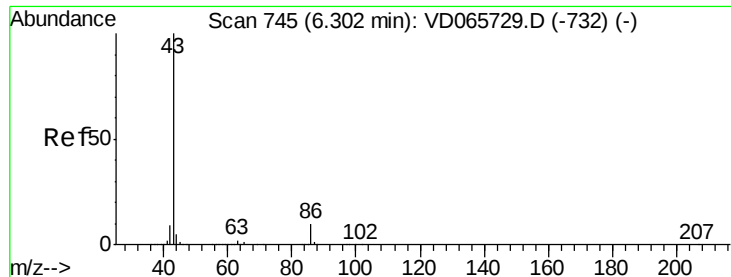
87 28.1 20.1 30.1

59 9.9 8.6 13.0



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: 39.258 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

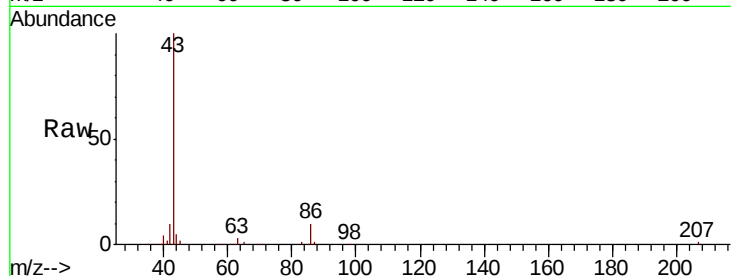
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 309958

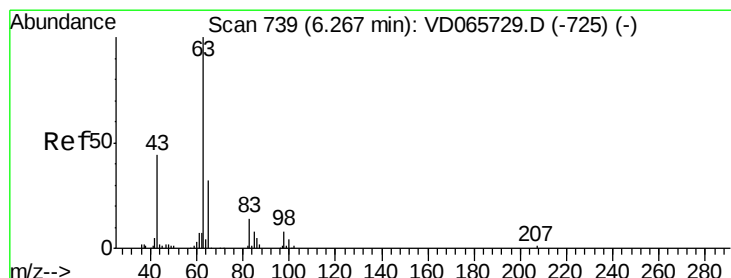
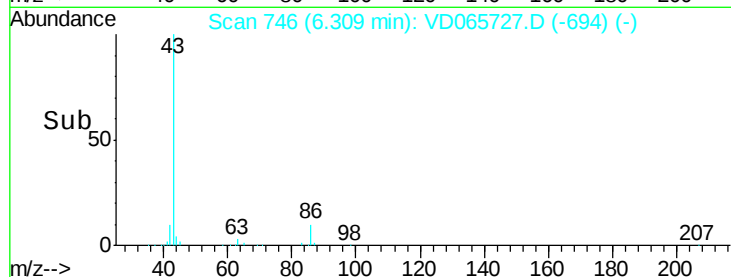
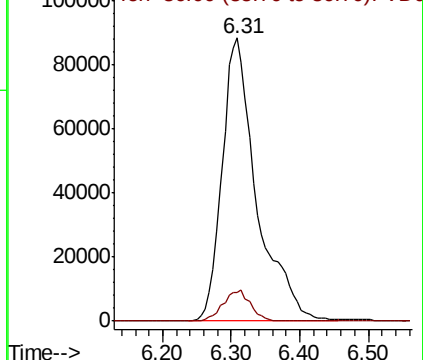
Ion Ratio Lower Upper

43 100

86 9.9 8.2 12.4



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



#24

1,1-Dichloroethane

Concen: 8.431 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

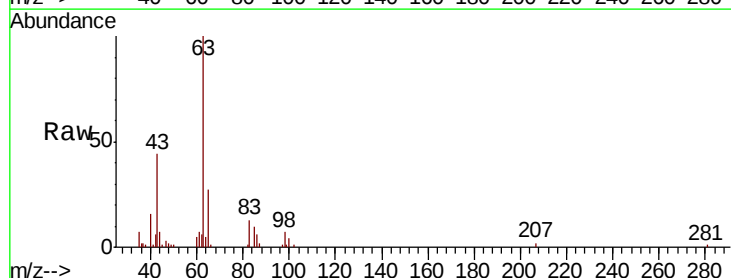
Tgt Ion: 63 Resp: 61298

Ion Ratio Lower Upper

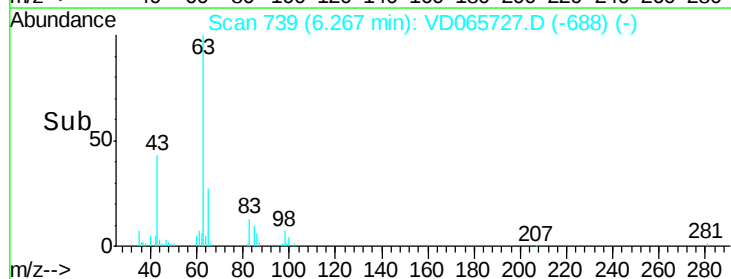
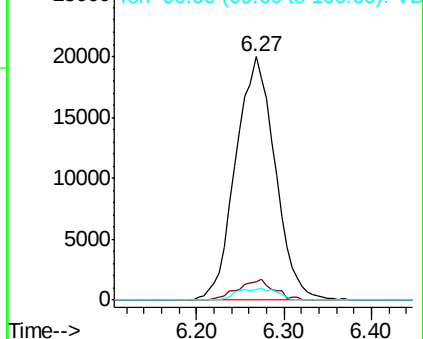
63 100

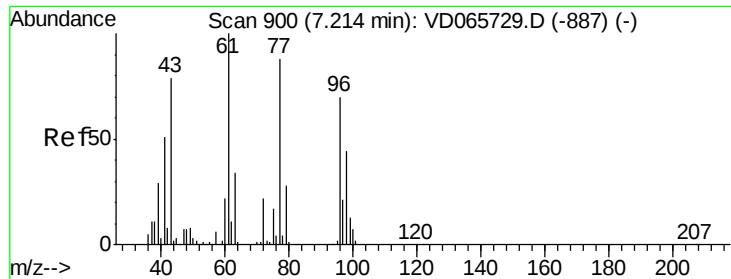
98 7.4 3.9 11.5

100 4.3 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: 40.328 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

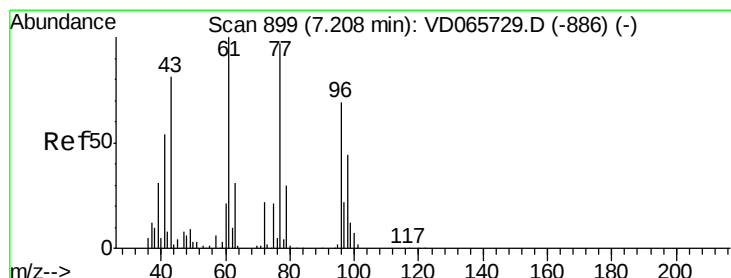
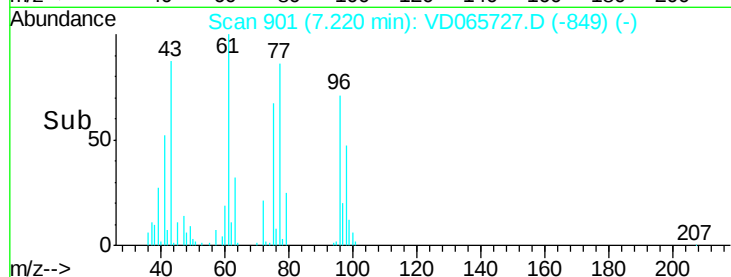
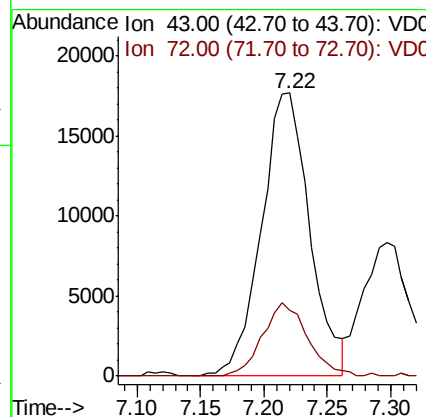
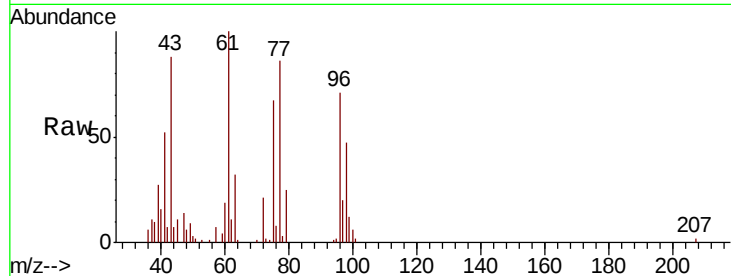
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 43 Resp: 46991

Ion Ratio Lower Upper

43 100

72 23.5 22.3 33.5



#26

2,2-Dichloropropane

Concen: 8.908 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD065727.D

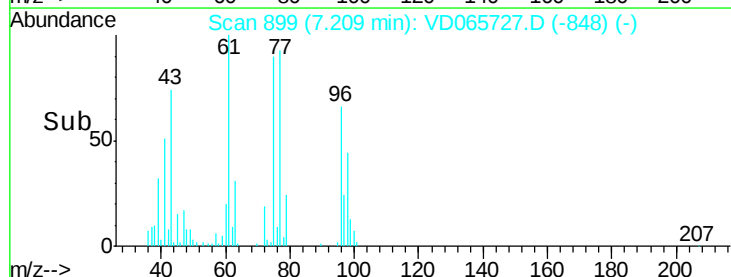
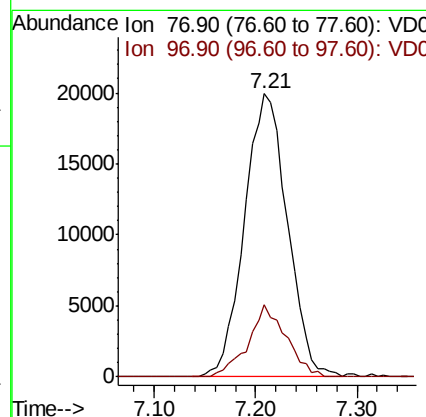
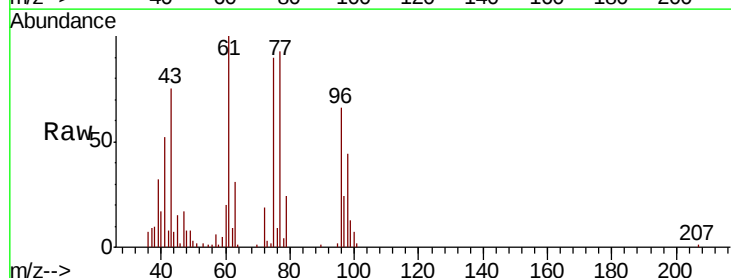
Acq: 13 May 2020 12:27

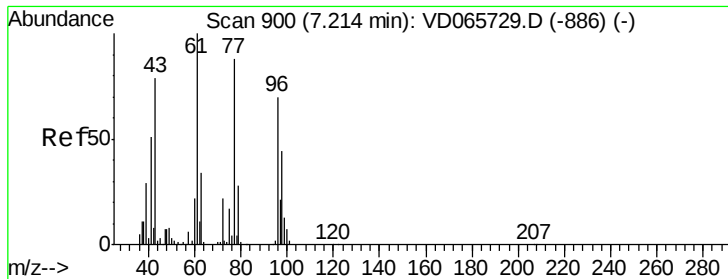
Tgt Ion: 77 Resp: 58613

Ion Ratio Lower Upper

77 100

97 22.4 11.3 33.9



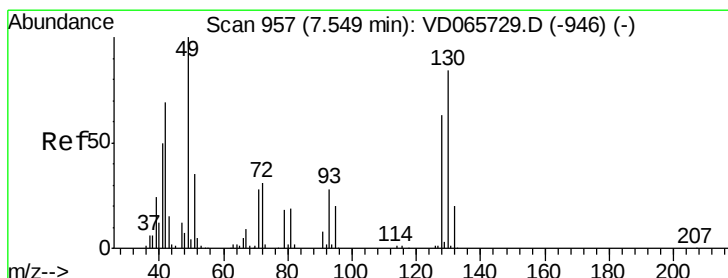
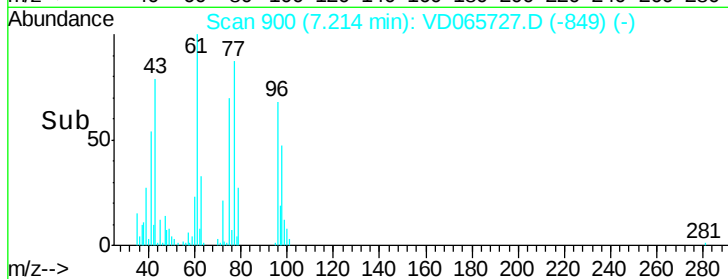
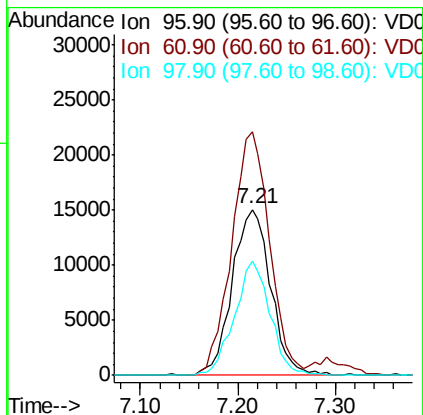
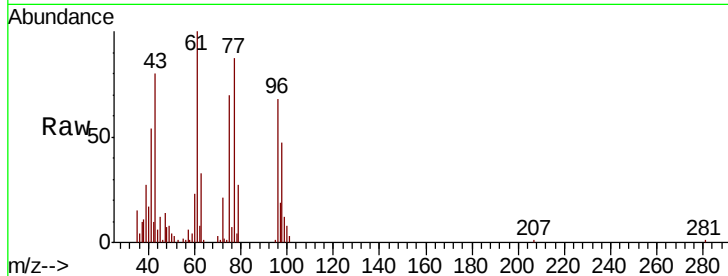


#27

cis-1,2-Dichloroethene  
 Concen: 9.191 ug/l  
 RT: 7.21 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Instrument :  
 MSVOA\_D  
 ClientSampled :

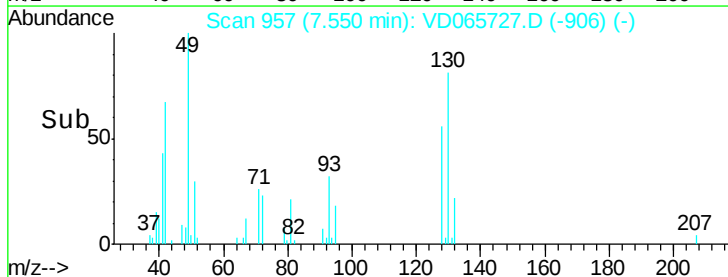
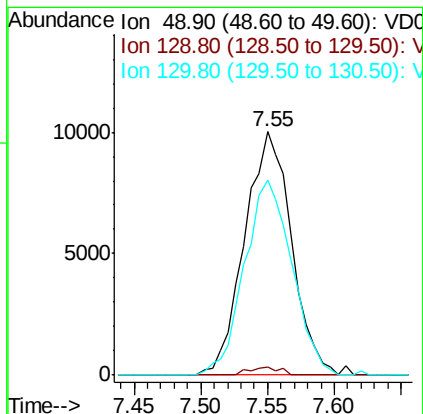
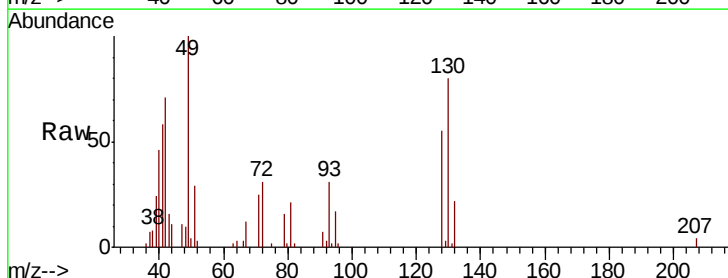
Tot Ion: 96 Resp: 41170  
 Ion Ratio Lower Upper  
 96 100  
 61 144.7 0.0 288.0  
 98 64.0 0.0 127.8

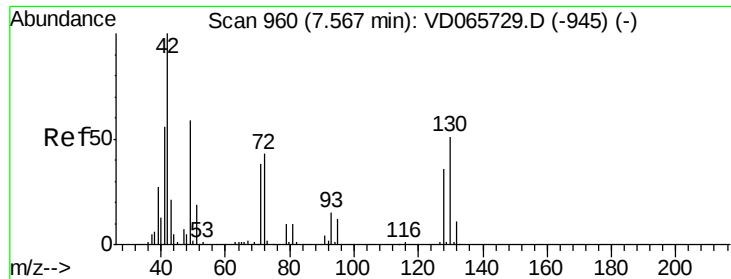


#28

Bromochloromethane  
 Concen: 8.019 ug/l  
 RT: 7.55 min Scan# 957  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 49 Resp: 24337  
 Ion Ratio Lower Upper  
 49 100  
 129 2.1 0.0 4.6  
 130 81.4 65.2 97.8

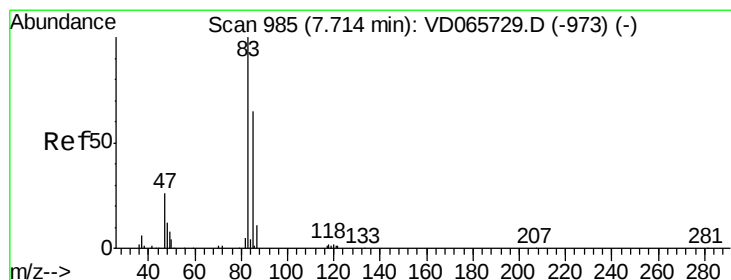
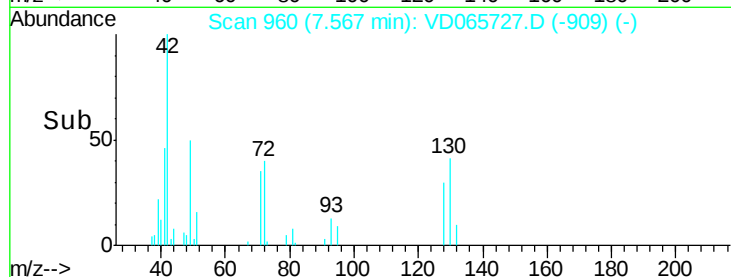
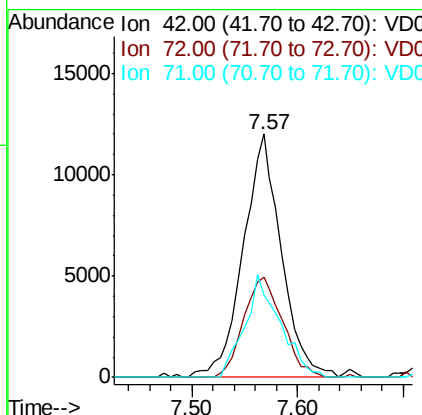
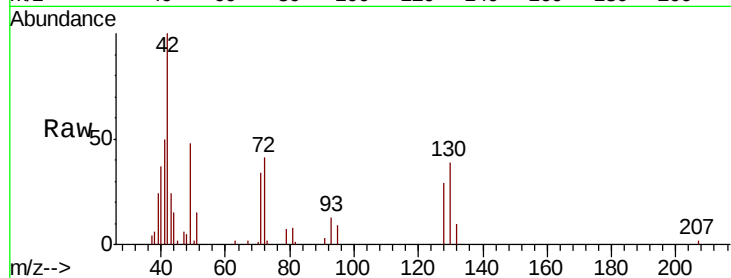




#29  
Tetrahydrofuran  
Concen: 40.010 ug/l  
RT: 7.57 min Scan# 960  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

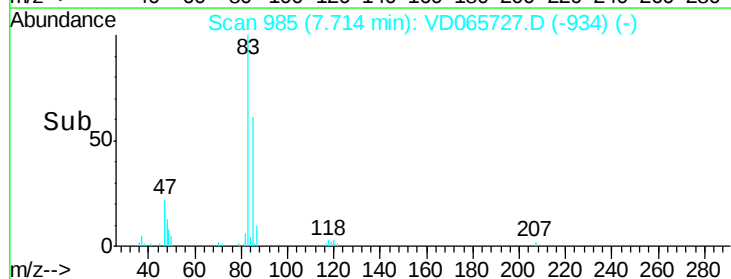
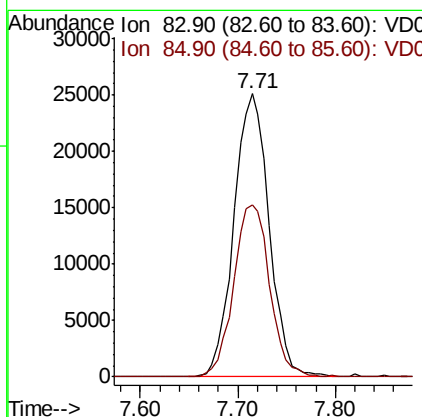
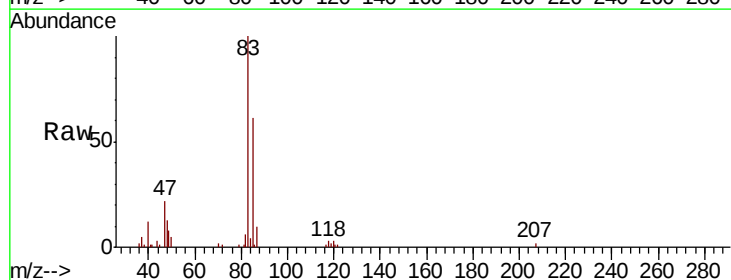
Instrument :  
MSVOA\_D  
ClientSampled :

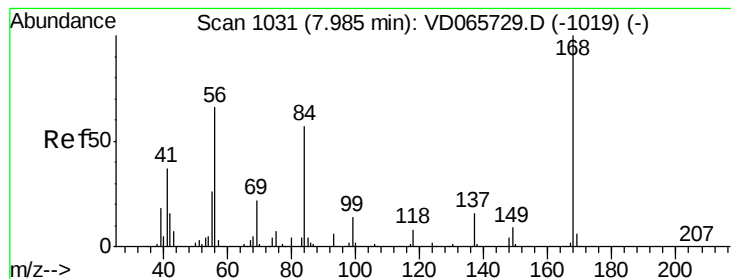
Tot Ion: 42 Resp: 30111  
Ion Ratio Lower Upper  
42 100  
72 42.1 33.5 50.3  
71 39.0 31.8 47.6



#30  
Chloroform  
Concen: 8.963 ug/l  
RT: 7.71 min Scan# 985  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 83 Resp: 63097  
Ion Ratio Lower Upper  
83 100  
85 60.9 52.2 78.2





#31

Cyclohexane

Concen: 8.584 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :  
MSVOA\_D  
ClientSampled :

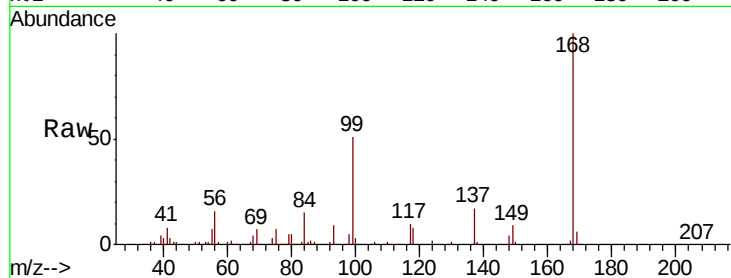
Tot Ion: 56 Resp: 64467

Ion Ratio Lower Upper

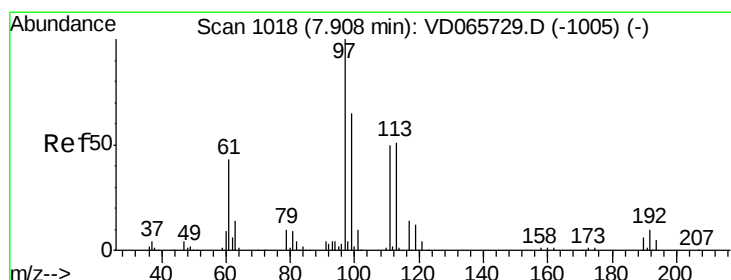
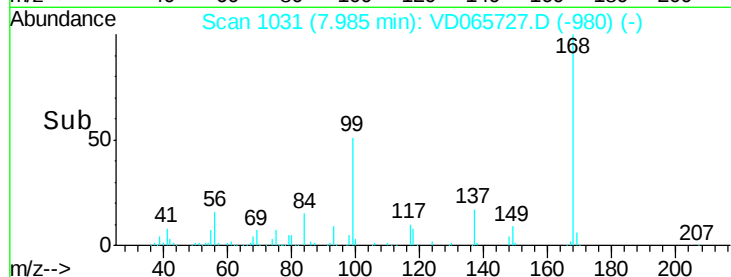
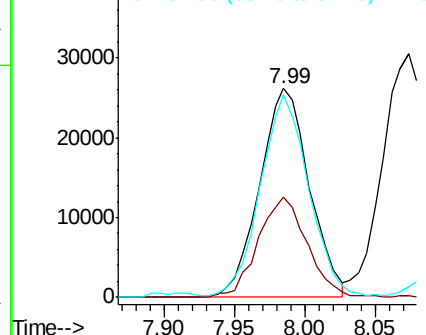
56 100

69 47.8 25.9 38.9#

84 95.5 69.1 103.7



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: 9.044 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

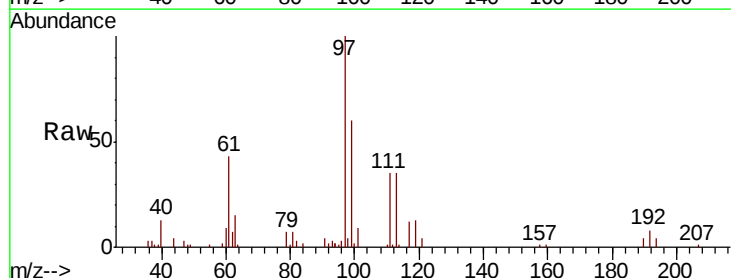
Tgt Ion: 97 Resp: 59254

Ion Ratio Lower Upper

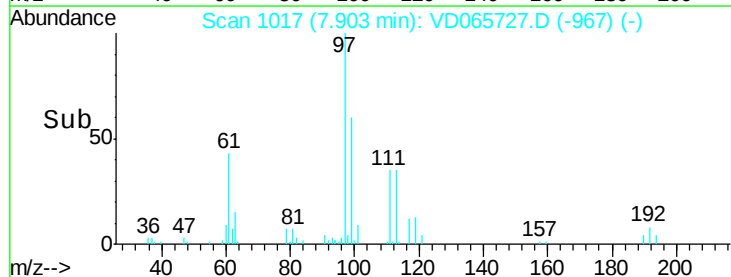
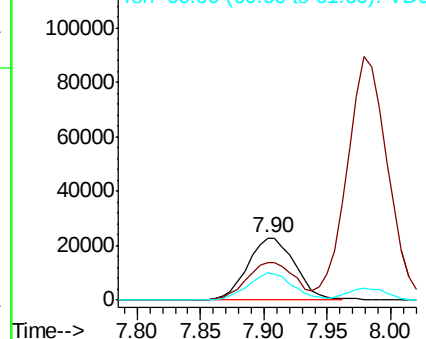
97 100

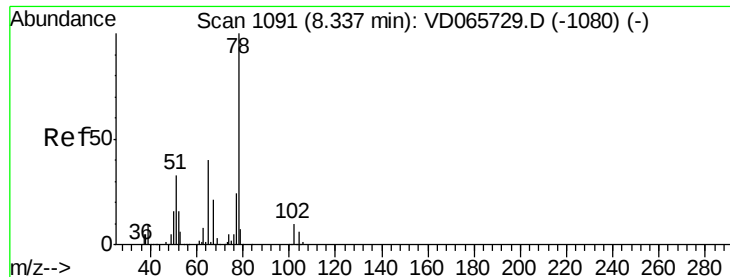
99 61.1 50.5 75.7

61 41.3 33.9 50.9



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: 8.060 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

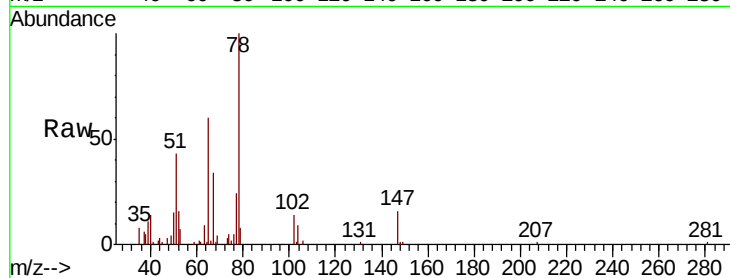
ClientSampleId :

Tot Ion: 65 Resp: 29934

Ion Ratio Lower Upper

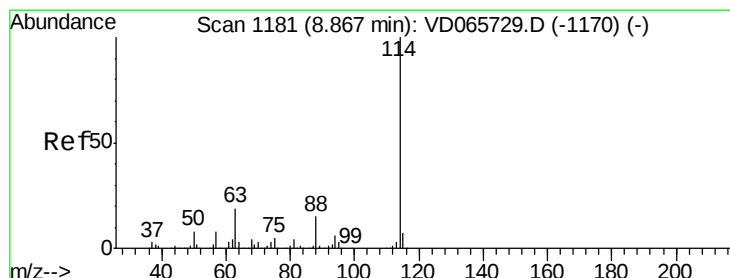
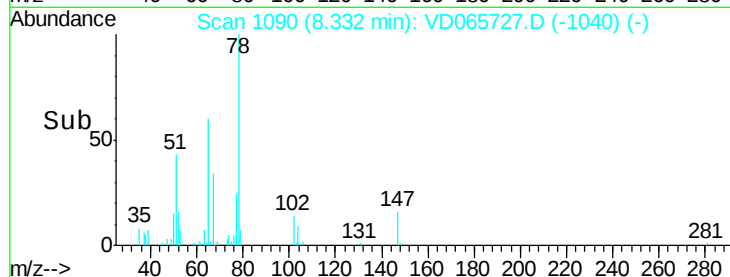
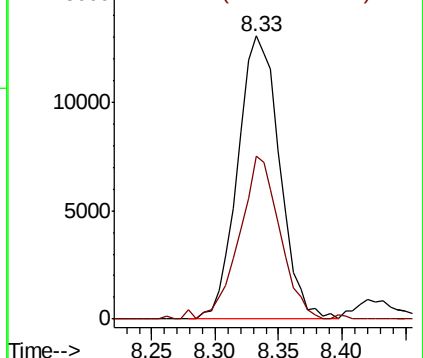
65 100

67 55.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

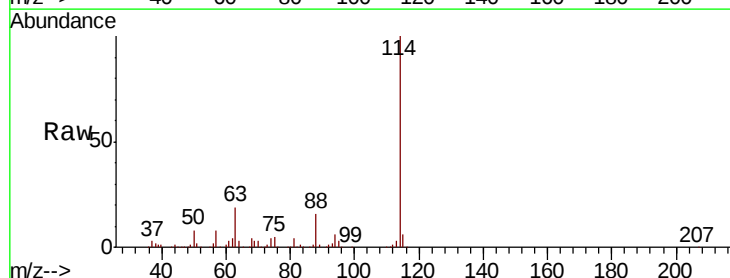
Tgt Ion:114 Resp: 572644

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.2

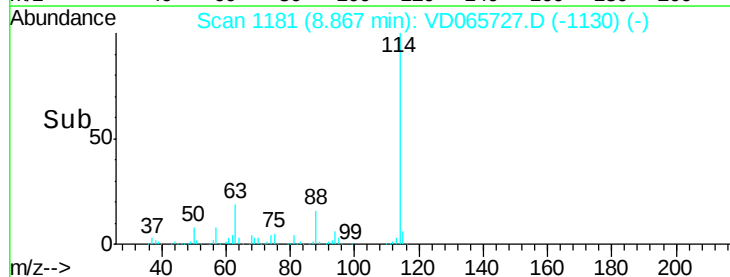
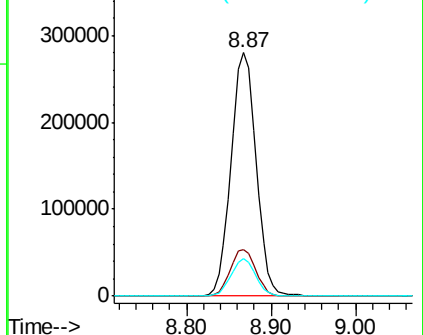
88 15.7 0.0 30.2

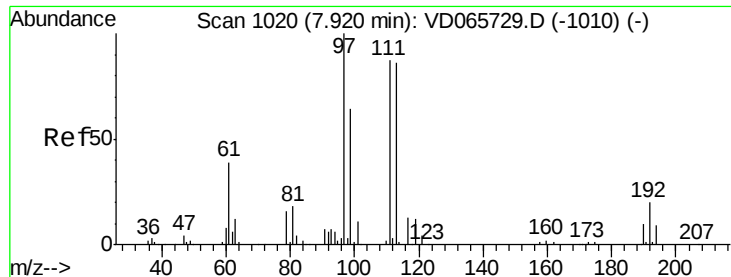


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

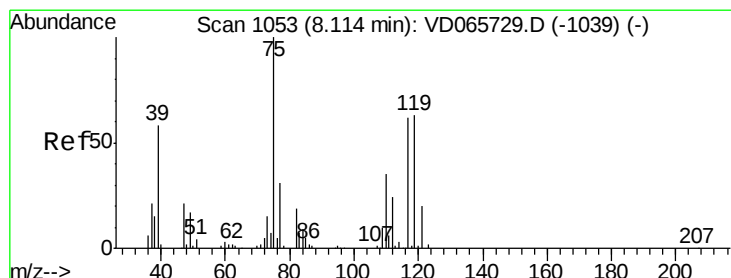
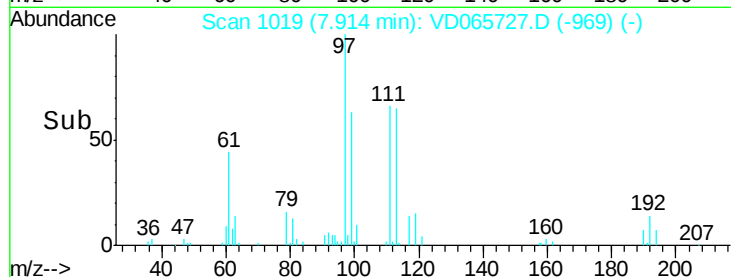
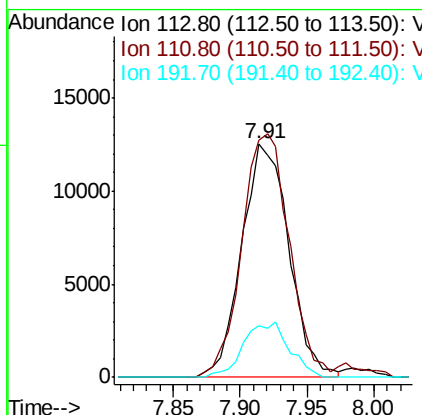
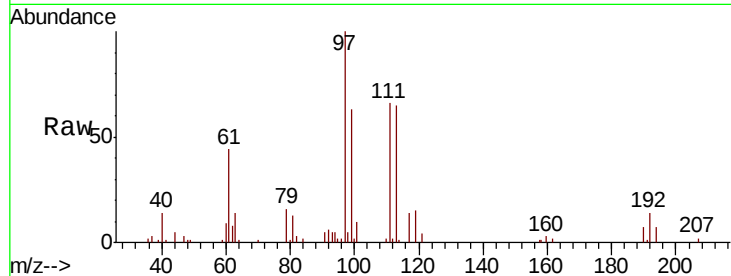




#35  
 Dibromofluoromethane  
 Concen: 8.789 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

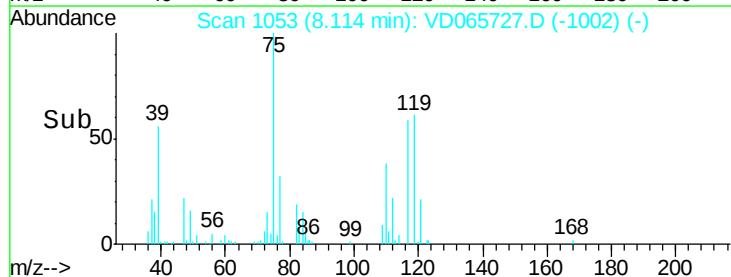
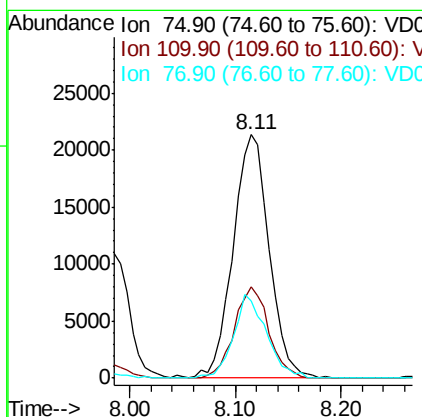
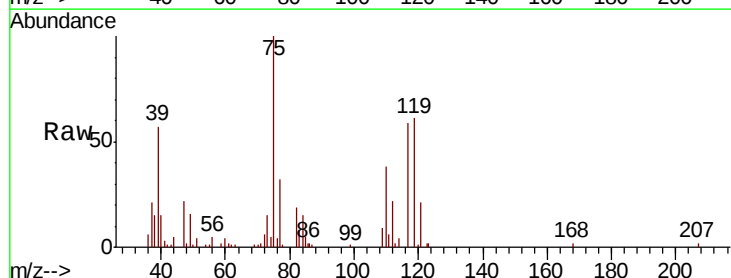
Instrument :  
 MSVOA\_D  
 ClientSampleId :

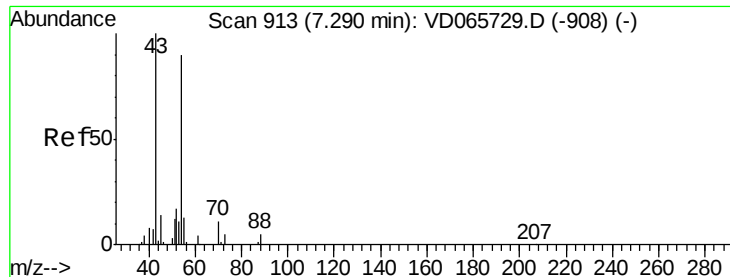
Tot Ion:113 Resp: 30703  
 Ion Ratio Lower Upper  
 113 100  
 111 104.4 81.1 121.7  
 192 22.8 17.6 26.4



#36  
 1,1-Dichloropropene  
 Concen: 9.107 ug/l  
 RT: 8.11 min Scan# 1053  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 75 Resp: 50484  
 Ion Ratio Lower Upper  
 75 100  
 110 35.8 18.4 55.2  
 77 31.3 24.6 37.0

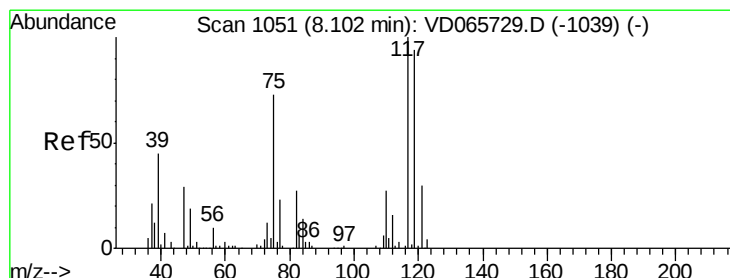
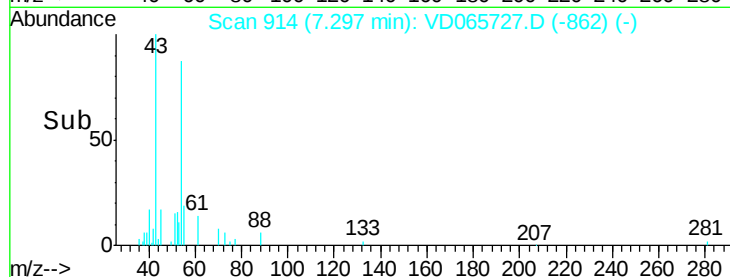
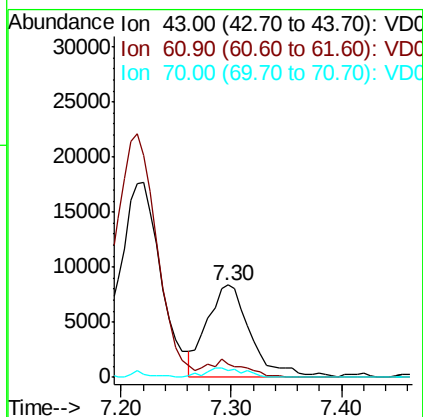
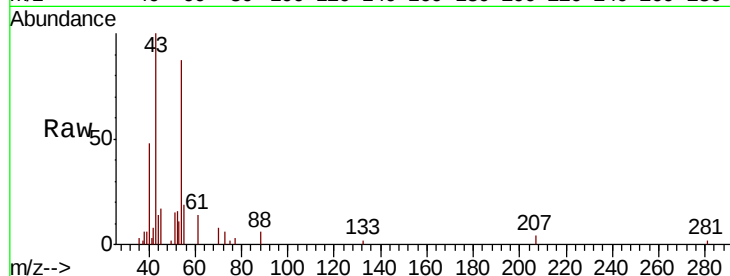




#37  
Ethyl Acetate  
Concen: 8.796 ug/l  
RT: 7.30 min Scan# 914  
Delta R.T. 0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

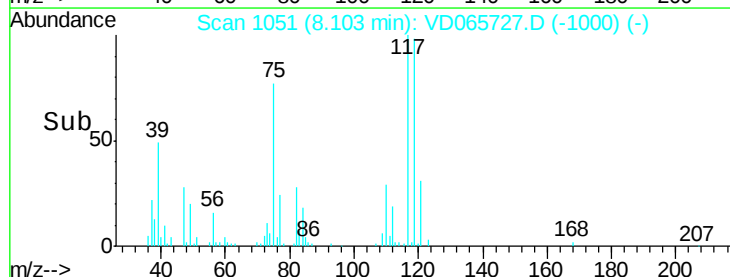
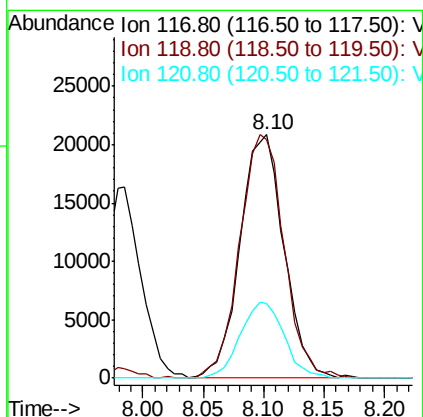
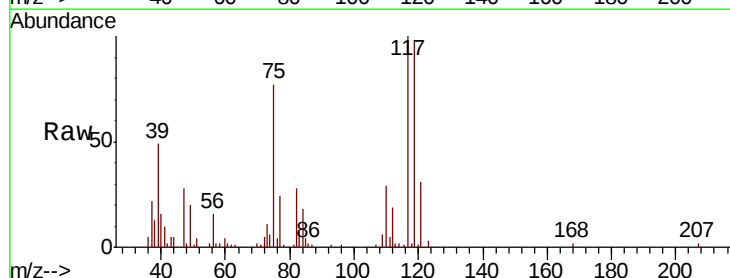
Instrument :  
MSVOA\_D  
ClientSampled :

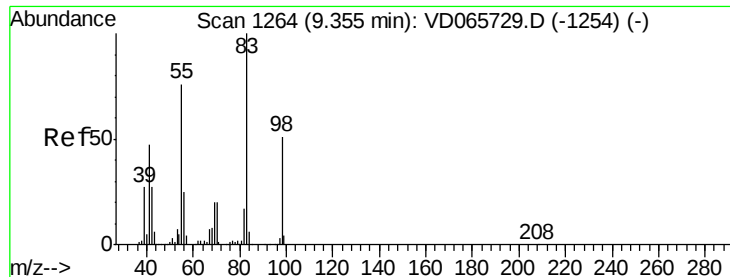
Tot Ion: 43 Resp: 22987  
Ion Ratio Lower Upper  
43 100  
61 15.4 9.8 14.6#  
70 9.2 8.6 12.8



#38  
Carbon Tetrachloride  
Concen: 9.528 ug/l  
RT: 8.10 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 117 Resp: 52914  
Ion Ratio Lower Upper  
117 100  
119 97.7 75.6 113.4  
121 30.6 24.4 36.6

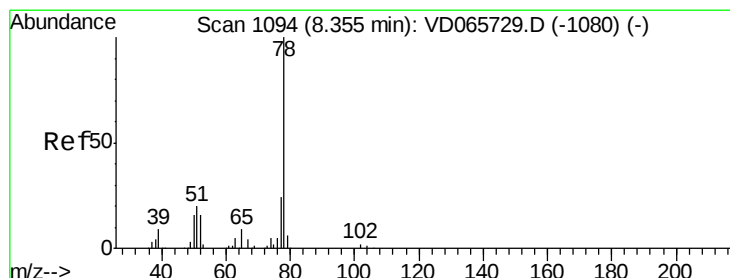
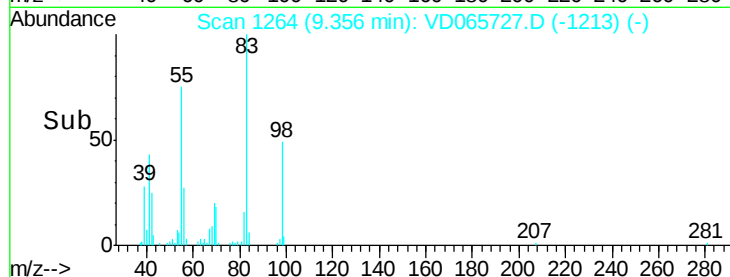
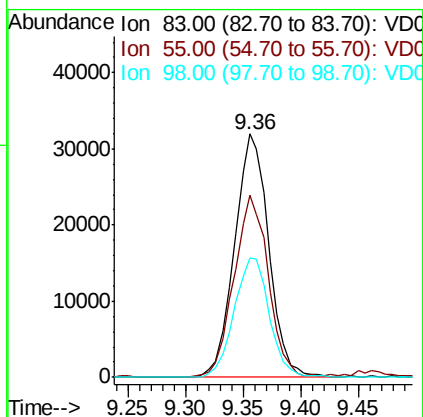
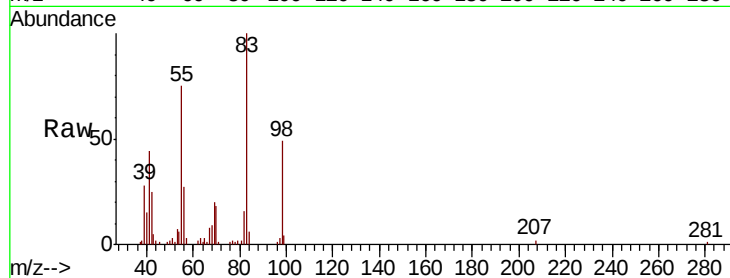




#39  
Methvlcvclohexane  
Concen: 9.450 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

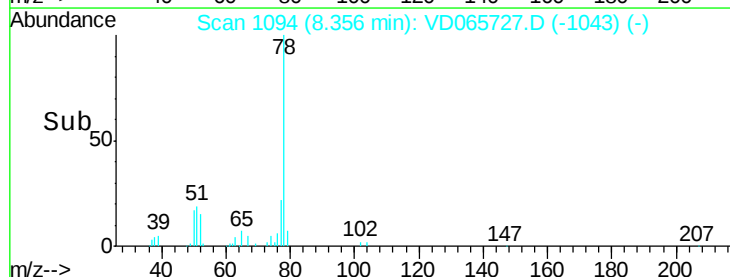
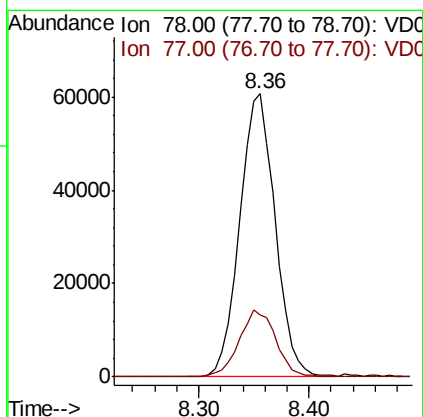
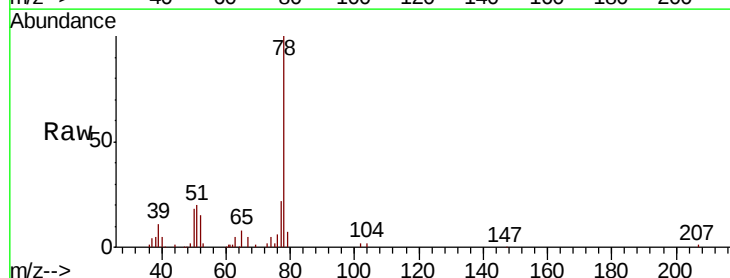
Instrument :  
MSVOA\_D  
ClientSampleId :

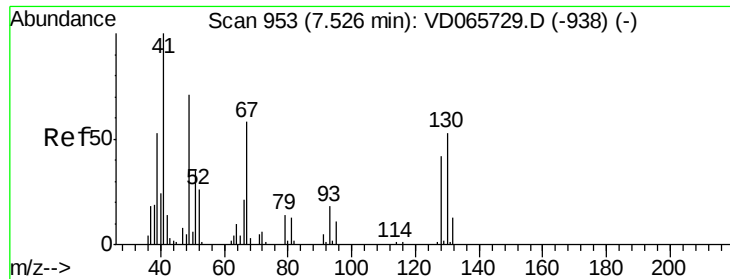
Tot Ion: 83 Resp: 65674  
Ion Ratio Lower Upper  
83 100  
55 75.0 60.9 91.3  
98 49.3 40.6 61.0



#40  
Benzene  
Concen: 9.043 ug/l  
RT: 8.36 min Scan# 1094  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 78 Resp: 137084  
Ion Ratio Lower Upper  
78 100  
77 21.8 19.1 28.7

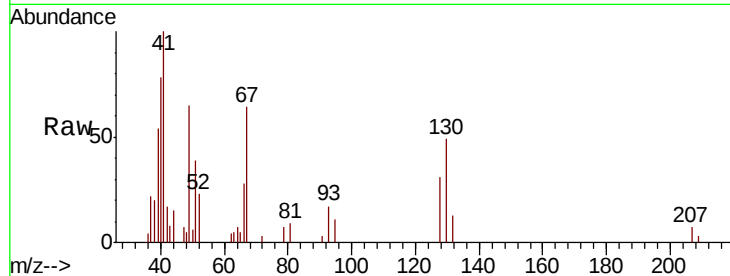




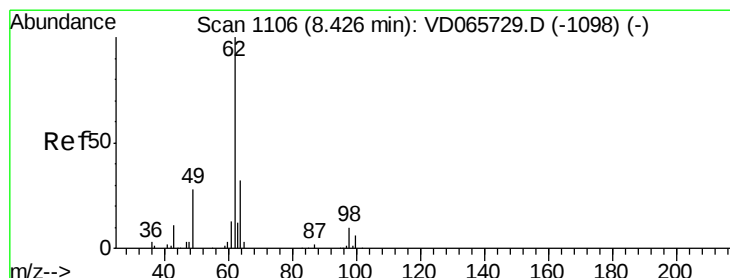
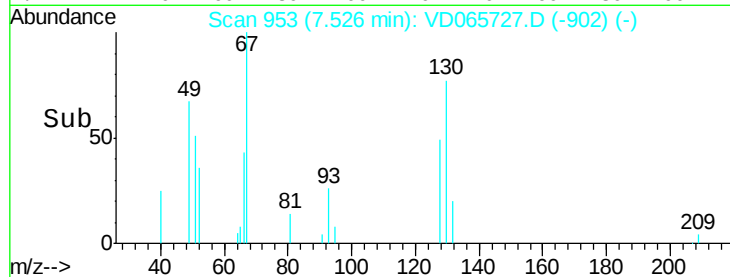
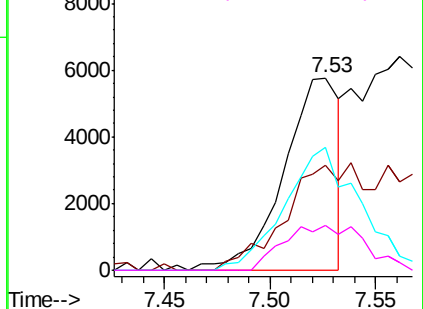
#41  
Methacrylonitrile  
Concen: 6.914 ug/l  
RT: 7.53 min Scan# 953  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Instrument :  
MSVOA\_D  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 10557 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 81.7  | 56.8  | 85.2  |
| 67       | 86.7  | 57.9  | 86.9  |
| 52       | 33.9  | 25.9  | 38.9  |

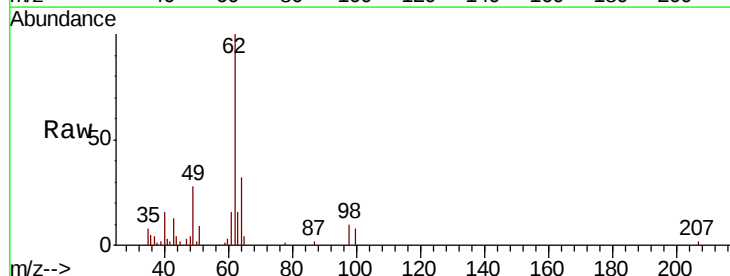


Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC  
Ion 67.00 (66.70 to 67.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC

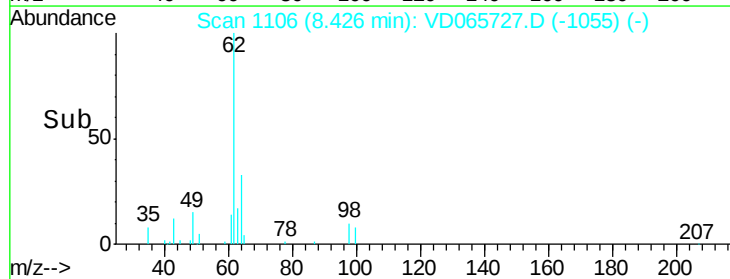
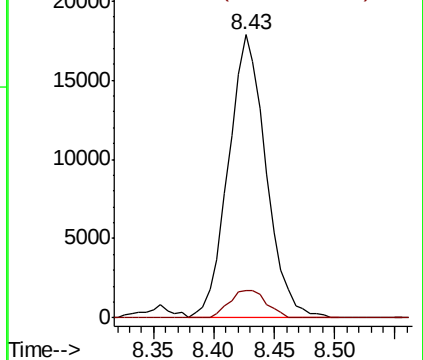


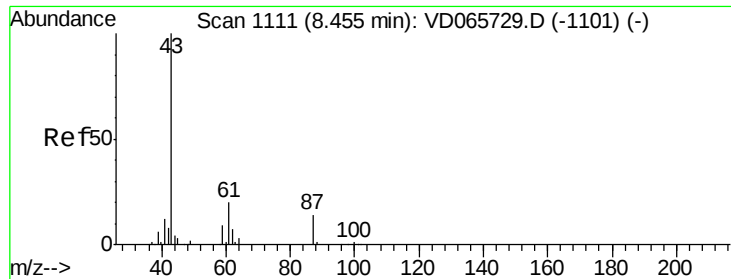
#42  
1,2-Dichloroethane  
Concen: 8.895 ug/l  
RT: 8.43 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 38696 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.6   | 0.0   | 19.6  |



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





#43

Isopropyl Acetate

Concen: 8.334 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampled :

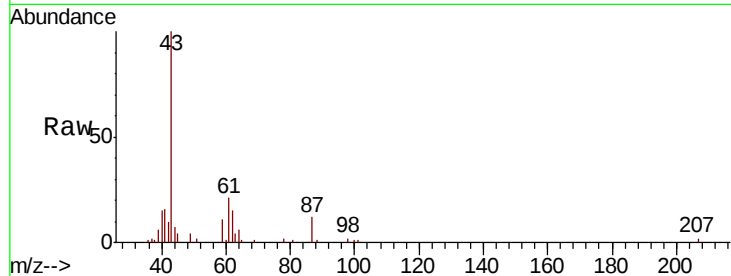
Tot Ion: 43 Resp: 43580

Ion Ratio Lower Upper

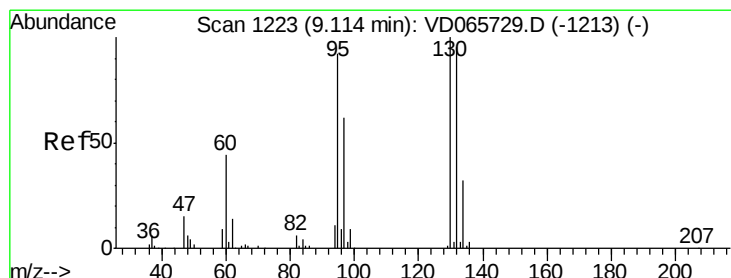
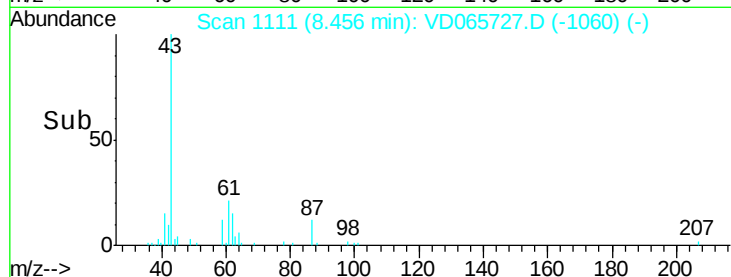
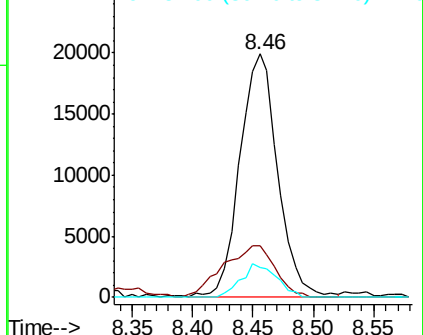
43 100

61 29.0 23.8 35.6

87 12.8 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: 9.947 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD065727.D

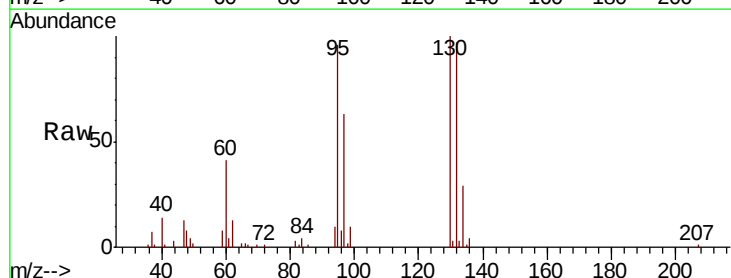
Acq: 13 May 2020 12:27

Tgt Ion: 130 Resp: 42088

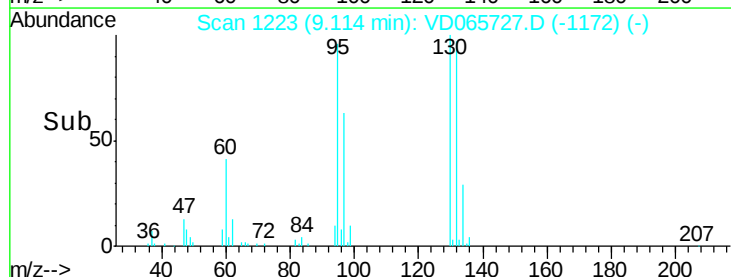
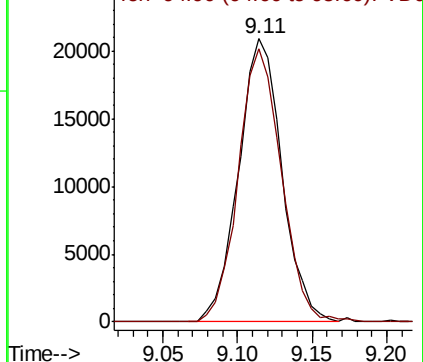
Ion Ratio Lower Upper

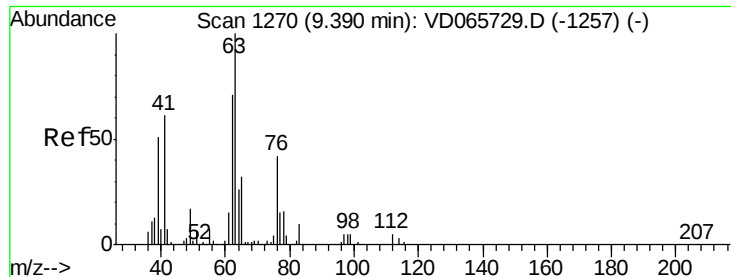
130 100

95 96.3 0.0 183.6



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

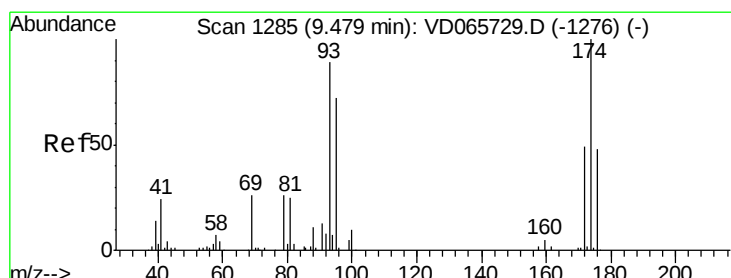
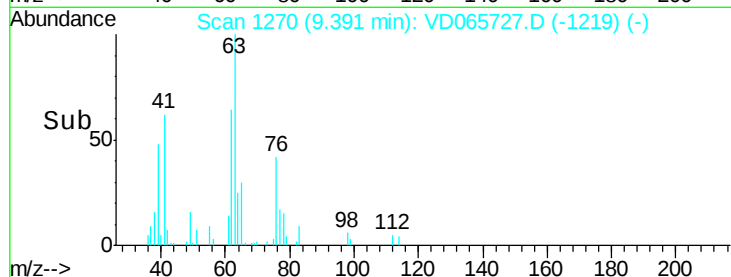
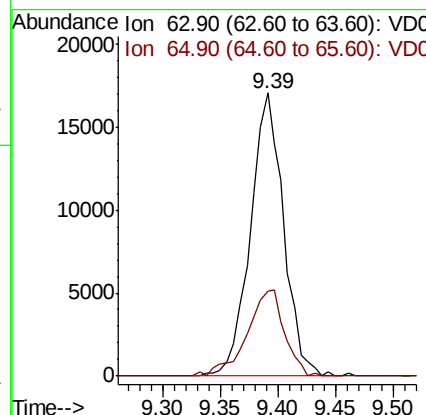
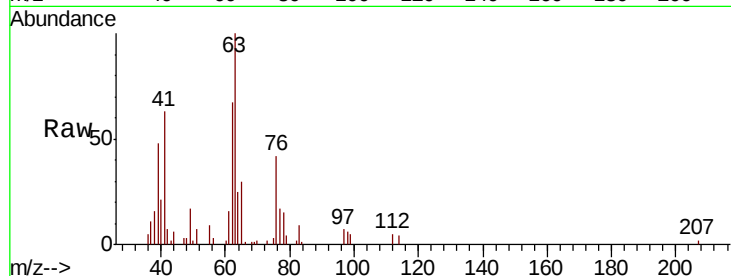




#45  
 1,2-Dichloropropane  
 Concen: 8.742 ug/l  
 RT: 9.39 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

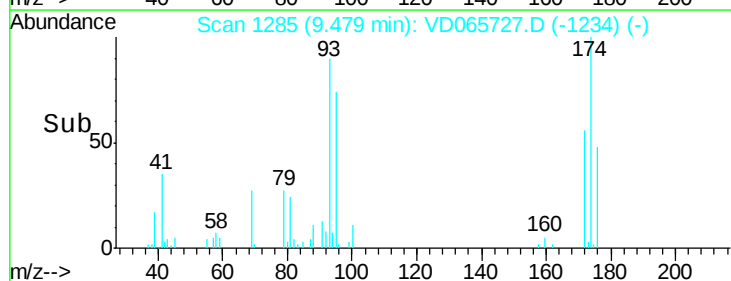
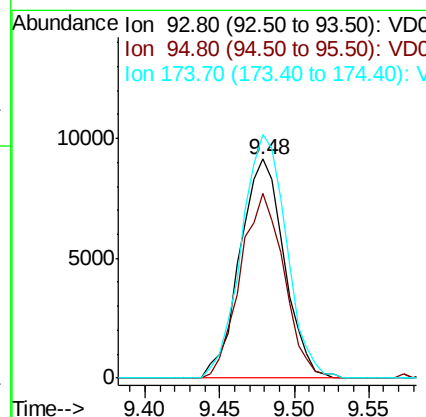
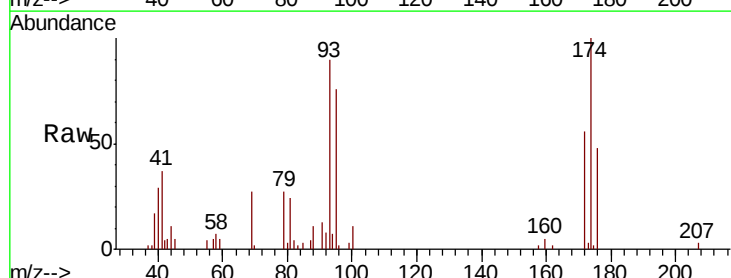
Instrument :  
 MSVOA\_D  
 ClientSampleId :

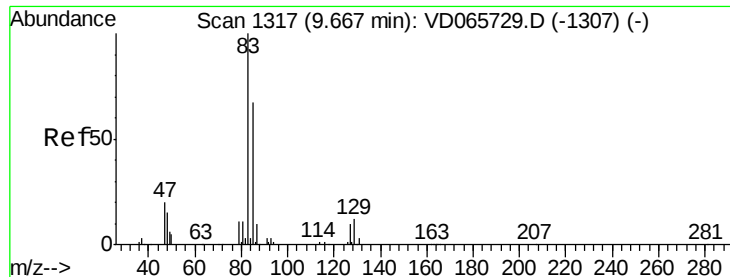
Tot Ion: 63 Resp: 34002  
 Ion Ratio Lower Upper  
 63 100  
 65 30.0 25.3 37.9



#46  
 Dibromomethane  
 Concen: 9.523 ug/l  
 RT: 9.48 min Scan# 1285  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 93 Resp: 18750  
 Ion Ratio Lower Upper  
 93 100  
 95 83.6 65.4 98.2  
 174 113.2 89.9 134.9





#47

Bromodichloromethane

Concen: 9.102 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampleId :

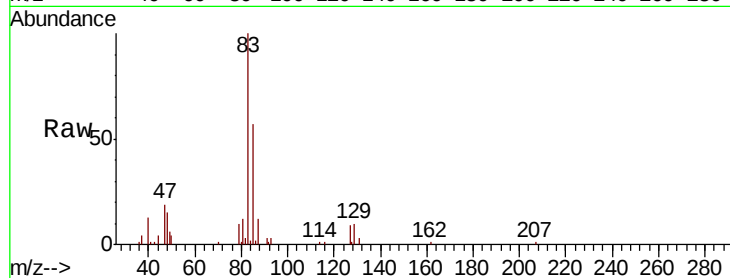
Tot Ion: 83 Resp: 47928

Ion Ratio Lower Upper

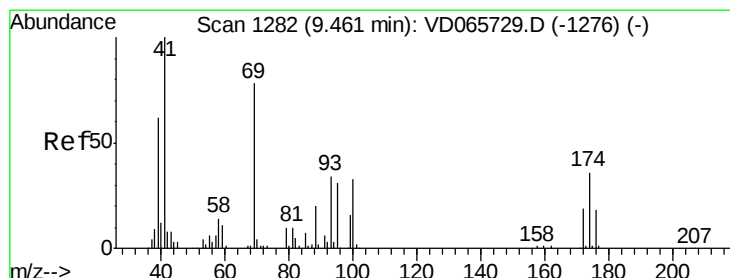
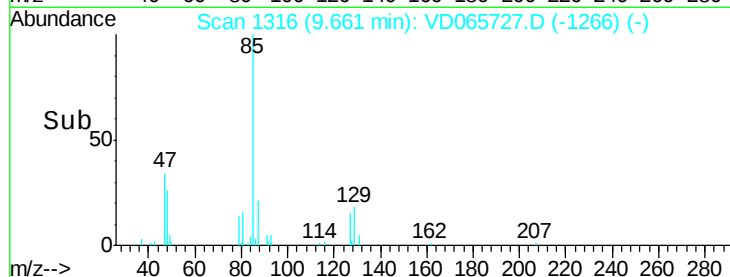
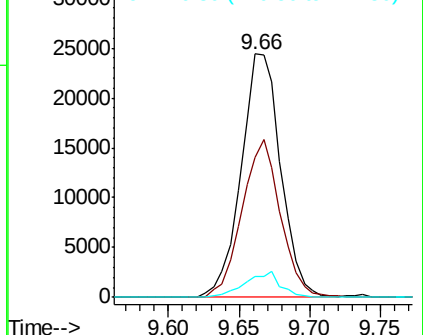
83 100

85 57.3 53.6 80.4

127 8.6 7.7 11.5



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: 7.470 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

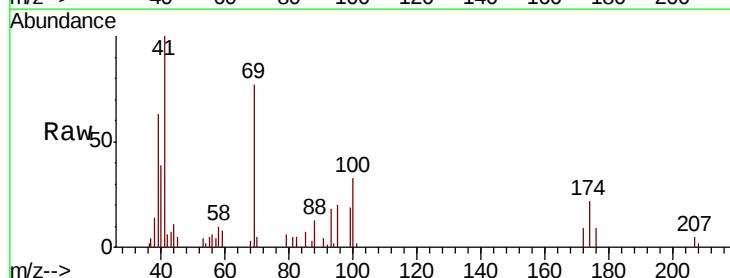
Tgt Ion: 41 Resp: 19517

Ion Ratio Lower Upper

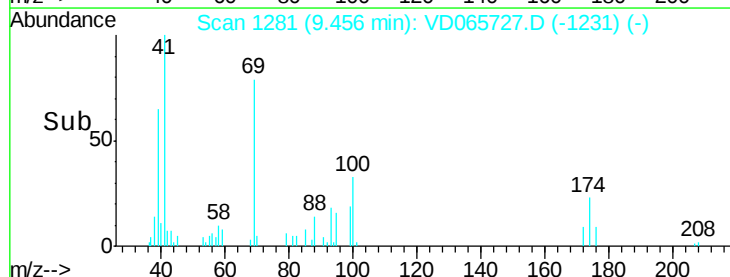
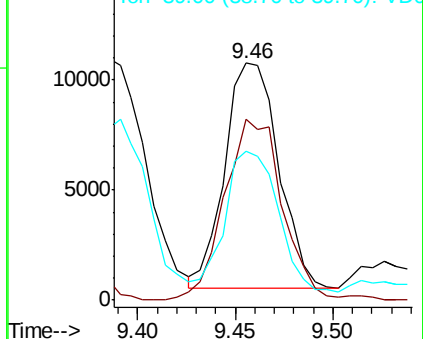
41 100

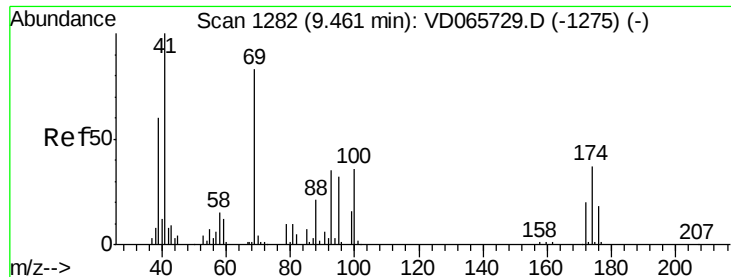
69 87.2 64.4 96.6

39 62.1 46.7 70.1



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

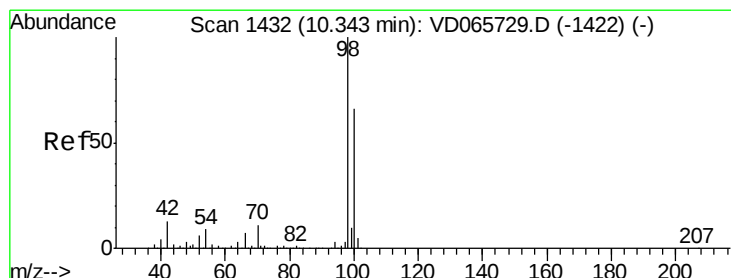
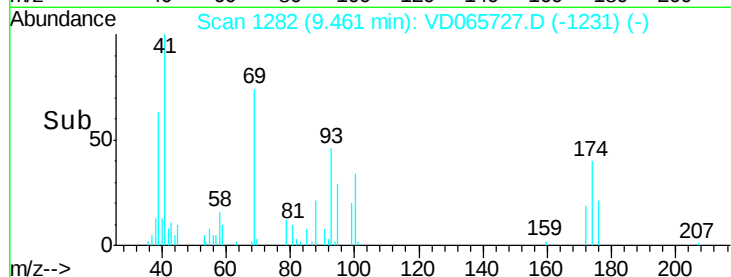
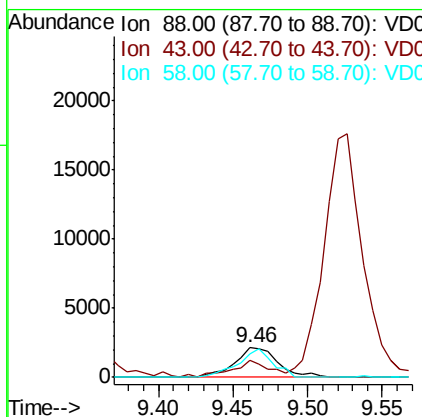
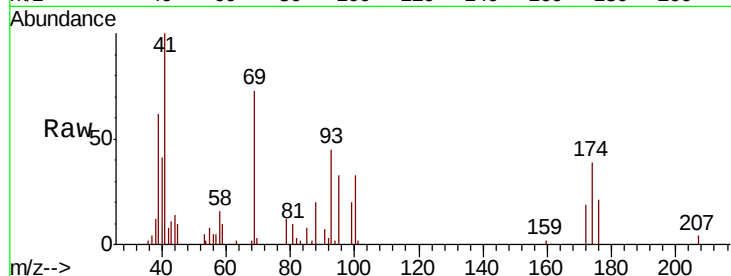




#49  
 1,4-Dioxane  
 Concen: 182.651 ug/l  
 RT: 9.46 min Scan# 1282  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

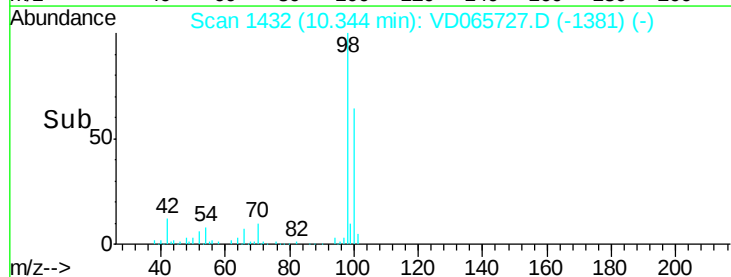
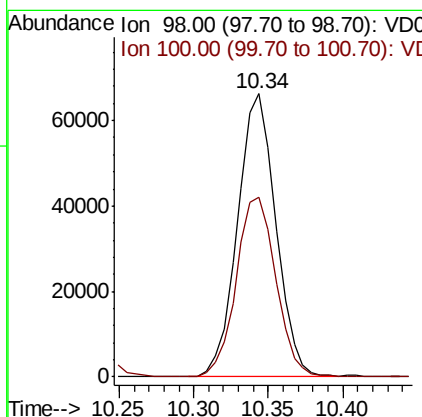
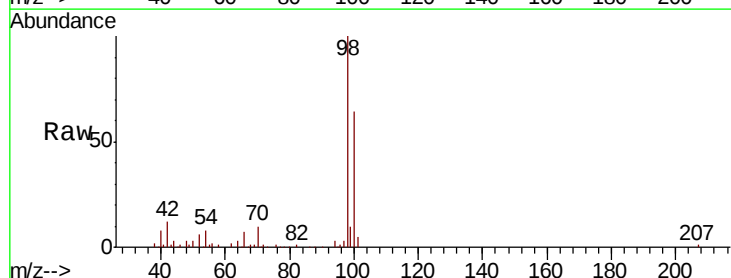
Instrument :  
 MSVOA\_D  
 ClientSampleId :

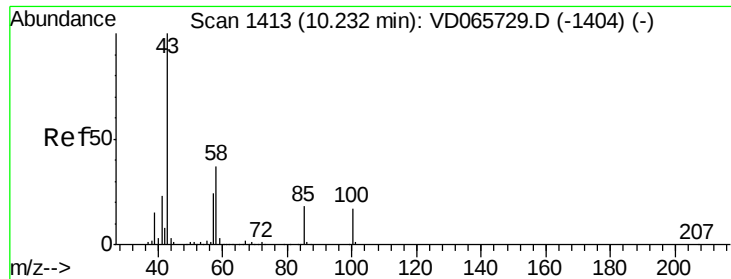
Tot Ion: 88 Resp: 4369  
 Ion Ratio Lower Upper  
 88 100  
 43 48.8 29.4 44.0#  
 58 76.3 55.1 82.7



#50  
 Toluene-d8  
 Concen: 8.840 ug/l  
 RT: 10.34 min Scan# 1432  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 98 Resp: 117960  
 Ion Ratio Lower Upper  
 98 100  
 100 66.0 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 41.466 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

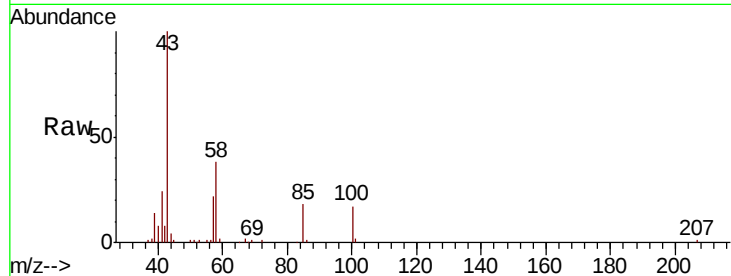
ClientSampleId :

Tot Ion: 43 Resp: 104540

Ion Ratio Lower Upper

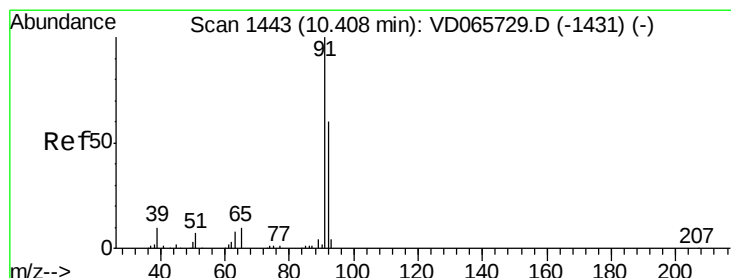
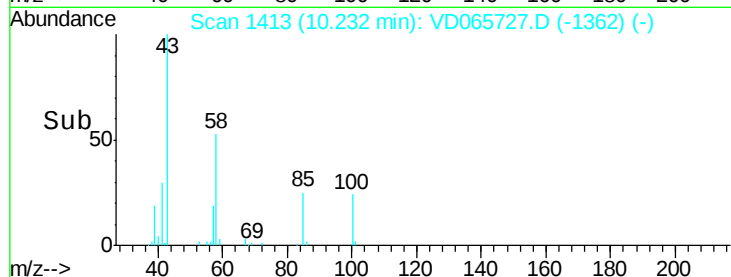
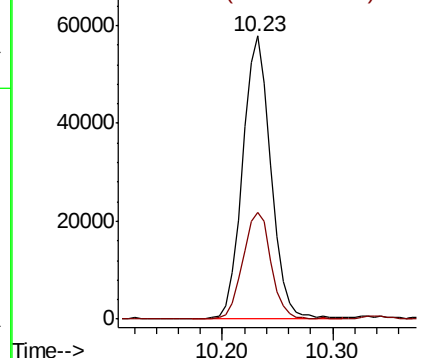
43 100

58 37.3 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 9.506 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD065727.D

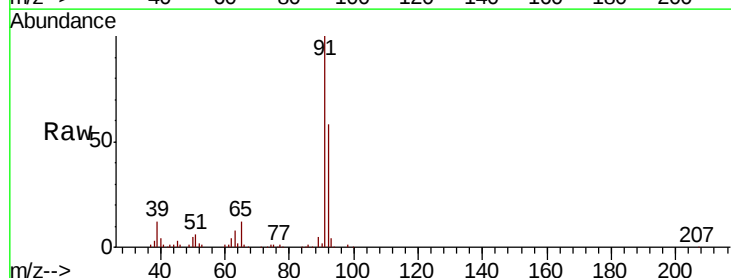
Acq: 13 May 2020 12:27

Tgt Ion: 92 Resp: 91641

Ion Ratio Lower Upper

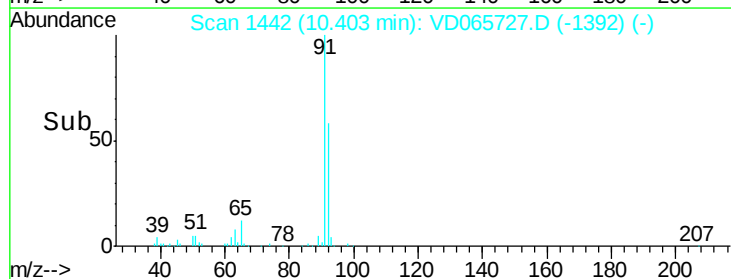
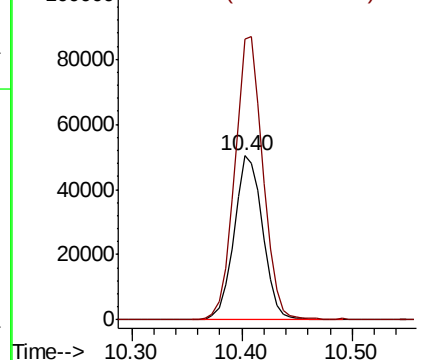
92 100

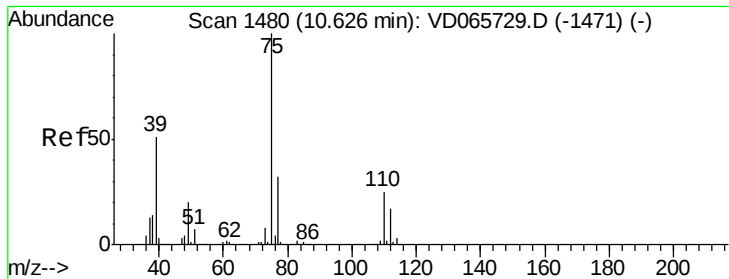
91 169.9 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 8.905 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

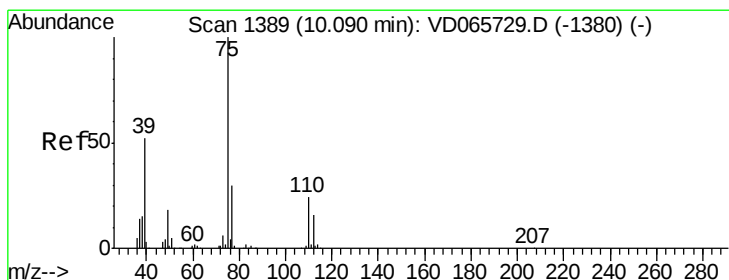
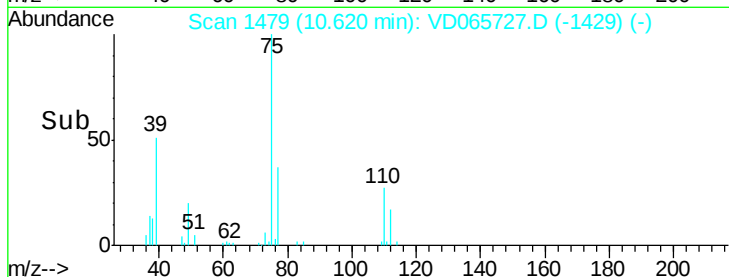
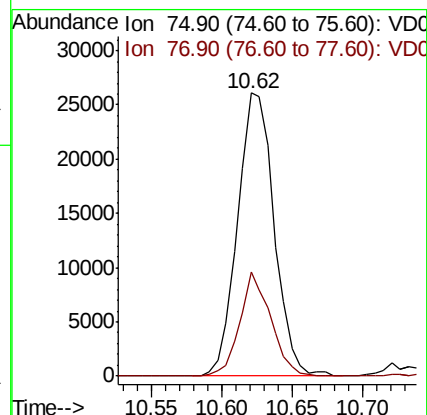
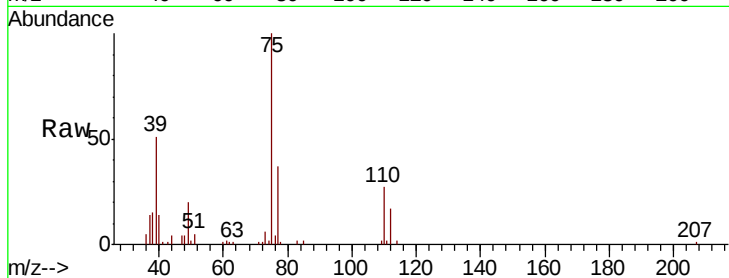
ClientSampleId :

Tot Ion: 75 Resp: 47163

Ion Ratio Lower Upper

75 100

77 36.7 25.8 38.6



#54

cis-1,3-Dichloropropene

Concen: 8.974 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

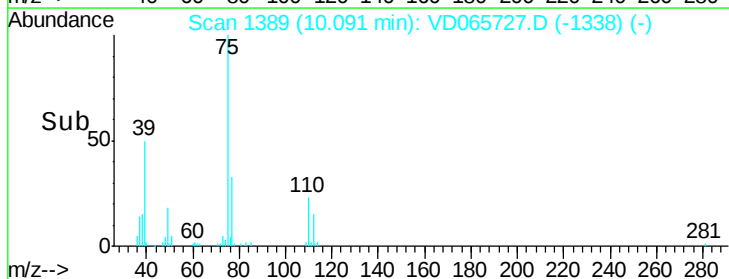
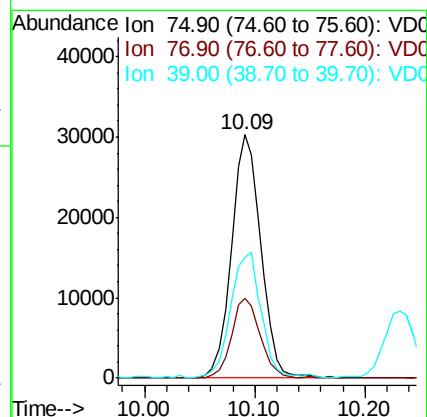
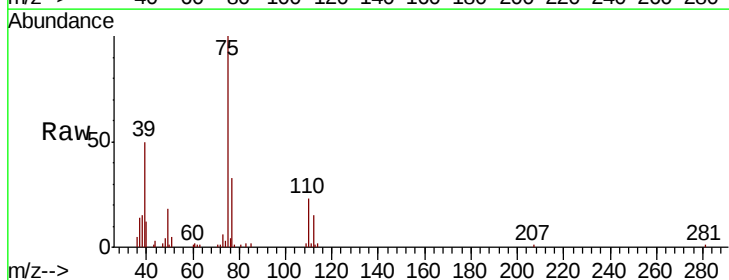
Tgt Ion: 75 Resp: 56291

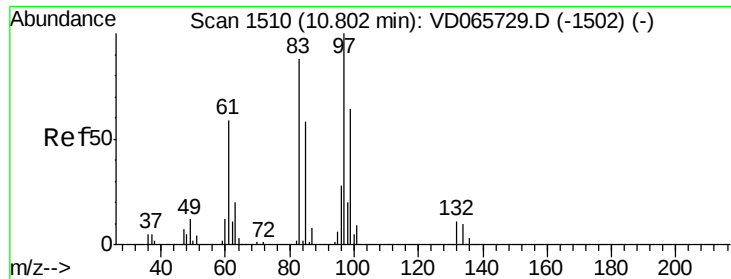
Ion Ratio Lower Upper

75 100

77 32.8 23.8 35.6

39 49.7 41.9 62.9

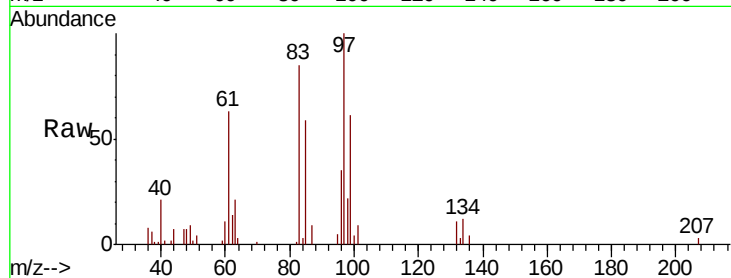




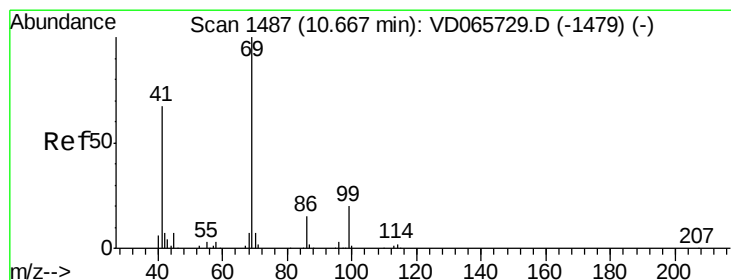
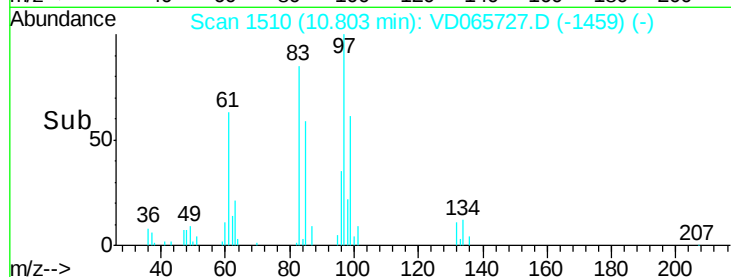
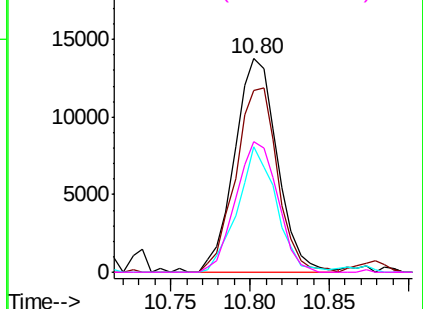
#55  
 1,1,2-Trichloroethane  
 Concen: 9.698 ug/l  
 RT: 10.80 min Scan# 1510  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion: 97 Resp: 25734  
 Ion Ratio Lower Upper  
 97 100  
 83 85.2 70.7 106.1  
 85 58.6 46.8 70.2  
 99 61.1 50.9 76.3

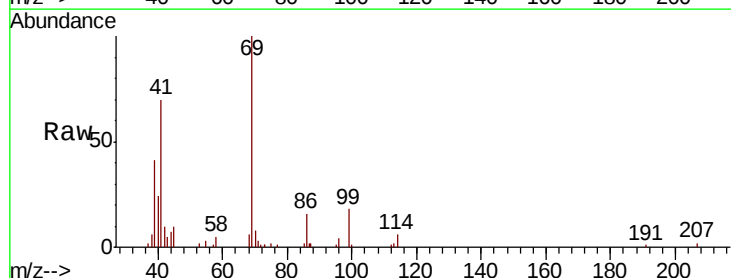


Abundance Ion 96.90 (96.60 to 97.60): VDC  
 Ion 82.90 (82.60 to 83.60): VDC  
 Ion 84.90 (84.60 to 85.60): VDC  
 Ion 98.90 (98.60 to 99.60): VDC

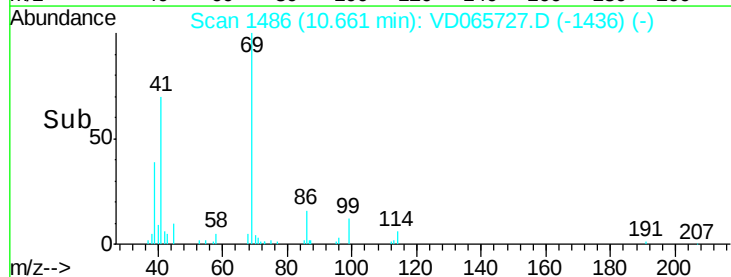
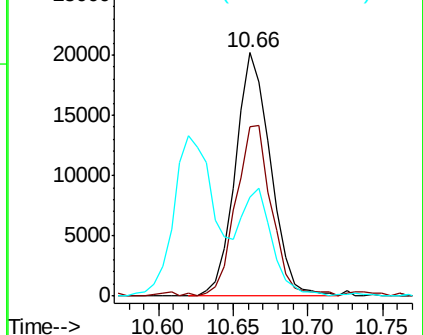


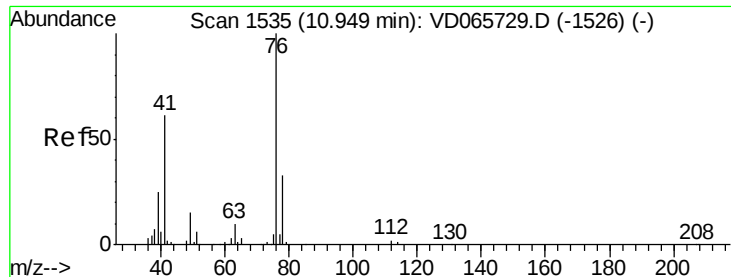
#56  
 Ethyl methacrylate  
 Concen: 8.727 ug/l  
 RT: 10.66 min Scan# 1486  
 Delta R.T. -0.01 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 69 Resp: 33063  
 Ion Ratio Lower Upper  
 69 100  
 41 71.1 55.7 83.5  
 39 38.0 28.6 43.0



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





#57

1,3-Dichloropropane

Concen: 9.265 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

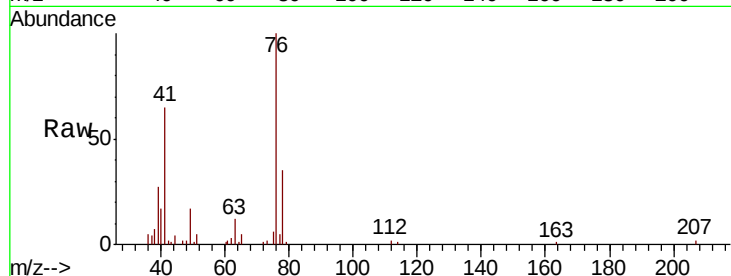
ClientSampled :

Tot Ion: 76 Resp: 44043

Ion Ratio Lower Upper

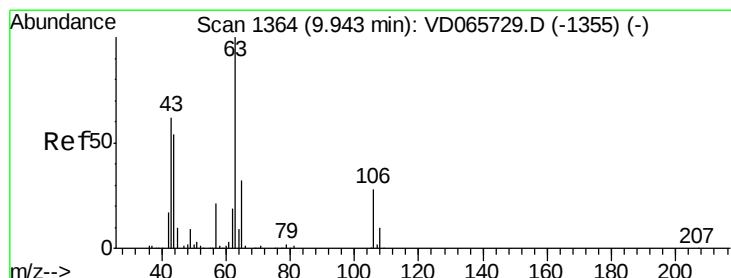
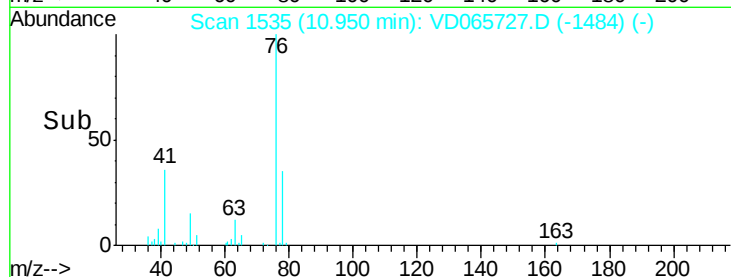
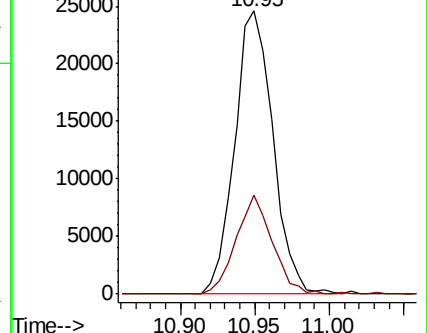
76 100

78 32.9 26.2 39.4



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 44.431 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD065727.D

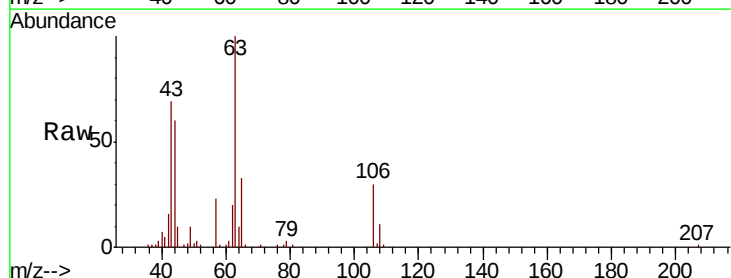
Acq: 13 May 2020 12:27

Tgt Ion: 63 Resp: 77902

Ion Ratio Lower Upper

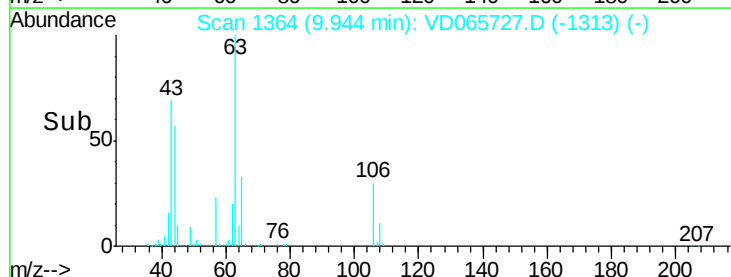
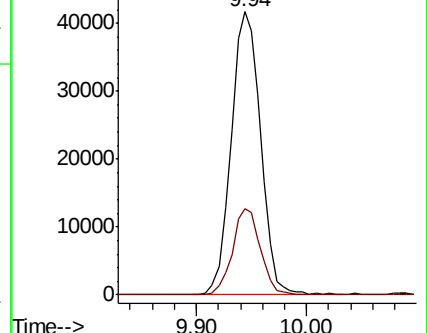
63 100

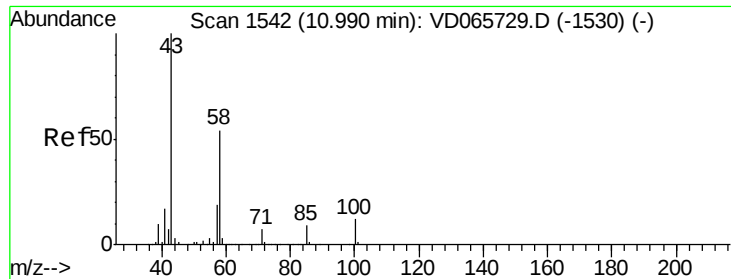
106 29.0 23.5 35.3



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

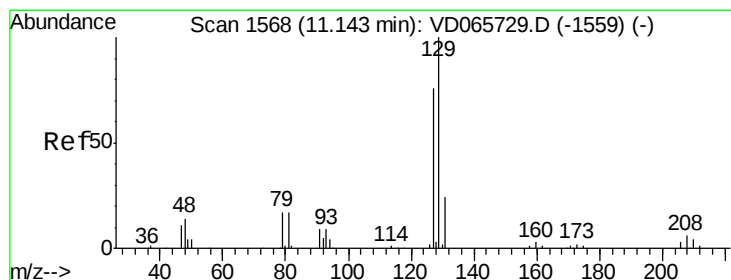
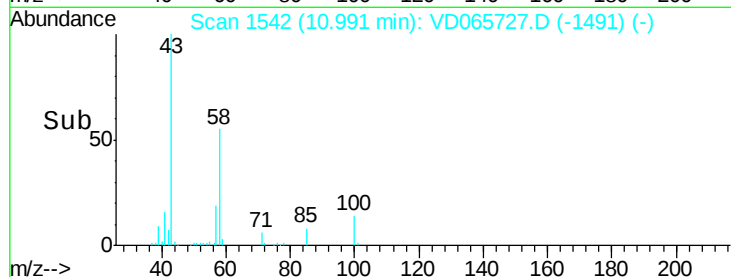
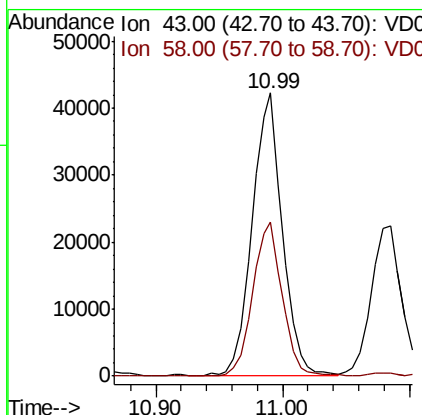
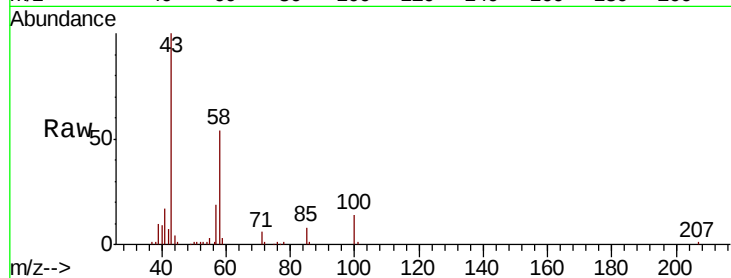




#59  
2-Hexanone  
Concen: 40.691 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

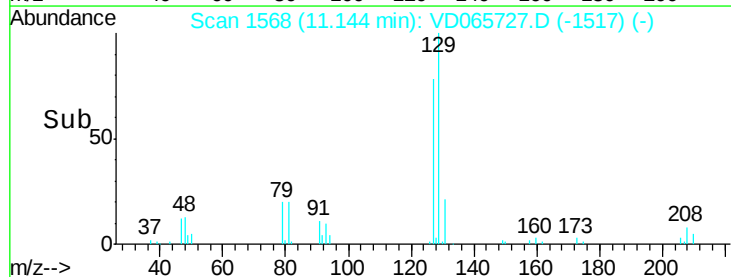
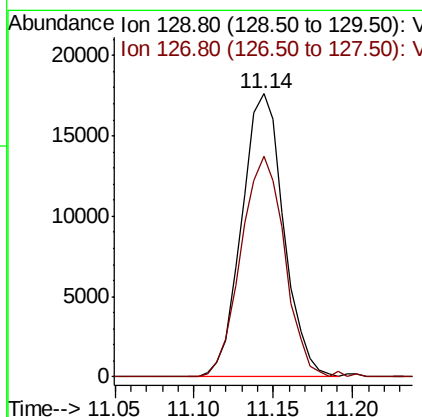
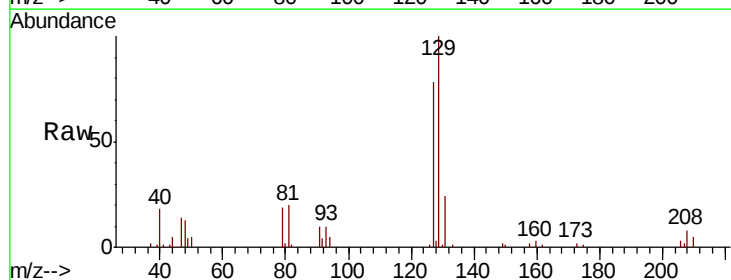
Instrument :  
MSVOA\_D  
ClientSampleId :

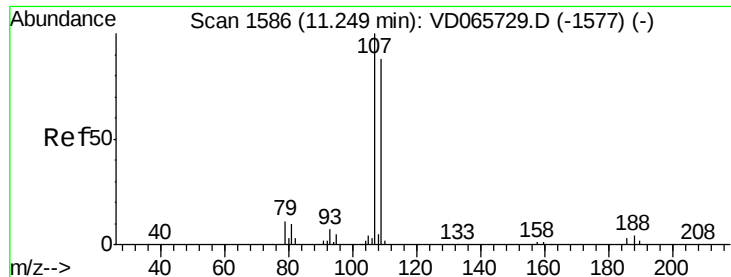
Tot Ion: 43 Resp: 70285  
Ion Ratio Lower Upper  
43 100  
58 53.0 26.7 80.1



#60  
Dibromochloromethane  
Concen: 9.038 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 129 Resp: 32475  
Ion Ratio Lower Upper  
129 100  
127 80.4 38.3 114.9

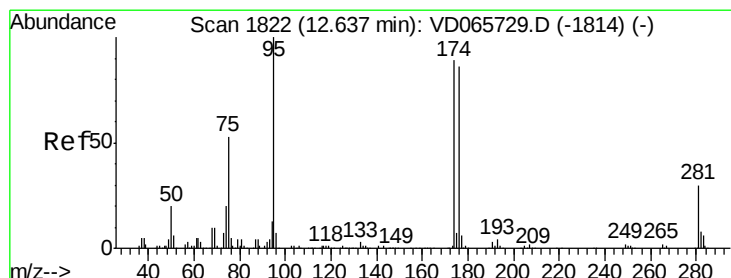
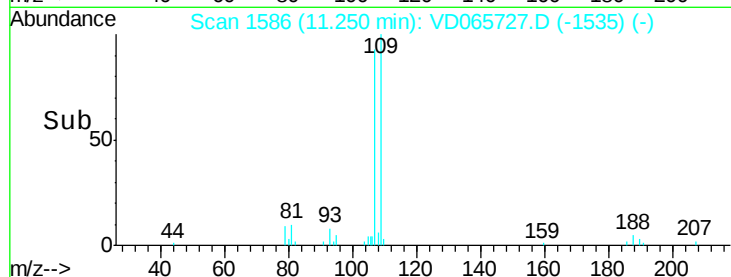
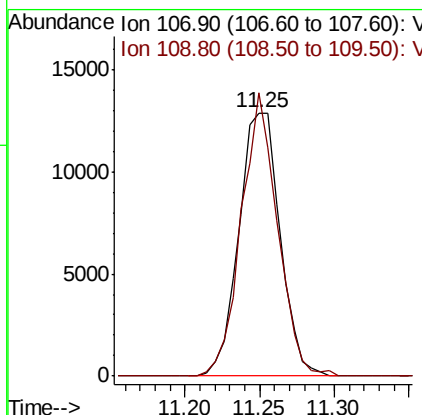
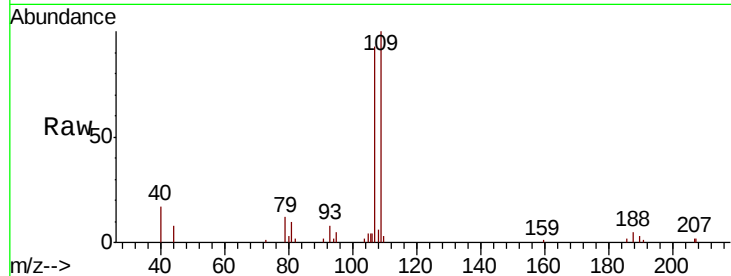




#61  
1,2-Dibromoethane  
Concen: 9.206 ug/l  
RT: 11.25 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

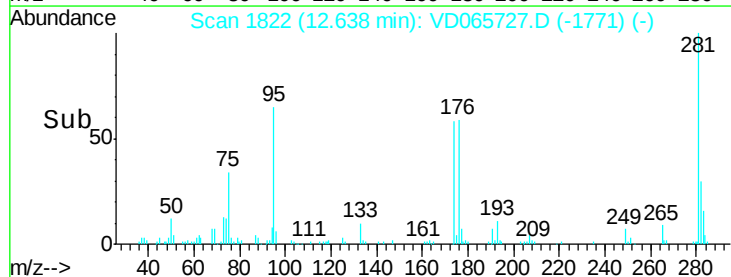
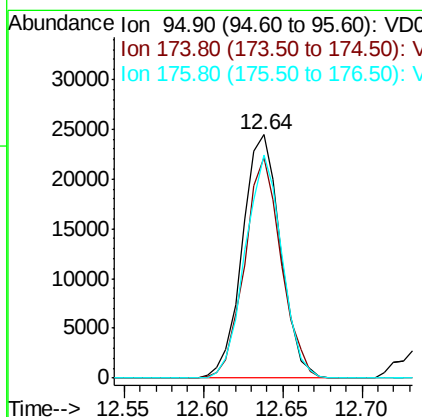
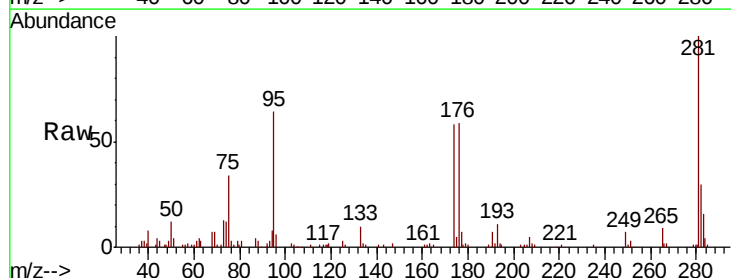
Instrument :  
MSVOA\_D  
ClientSampleId :

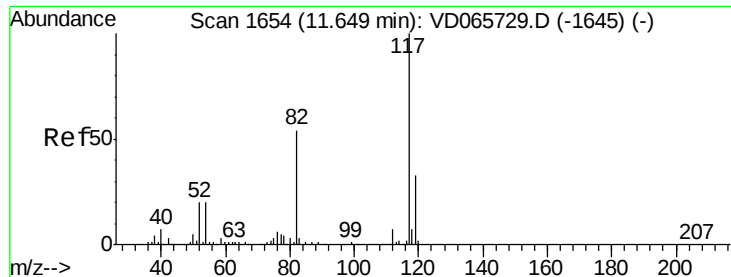
Tot Ion:107 Resp: 24582  
Ion Ratio Lower Upper  
107 100  
109 94.6 74.4 111.6



#62  
4-Bromofluorobenzene  
Concen: 8.671 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 95 Resp: 40804  
Ion Ratio Lower Upper  
95 100  
174 86.7 0.0 179.4  
176 88.5 0.0 174.0

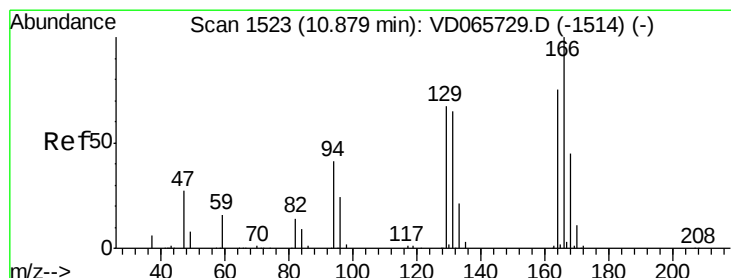
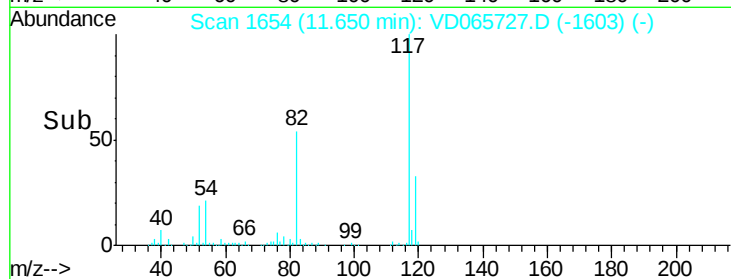
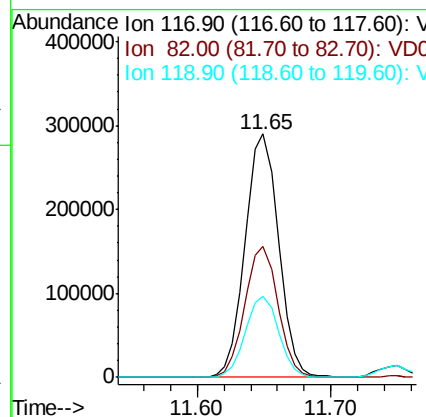
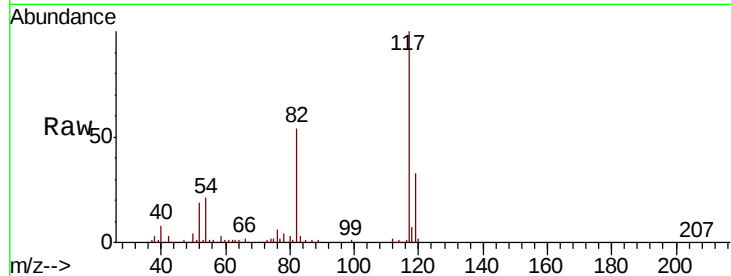




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

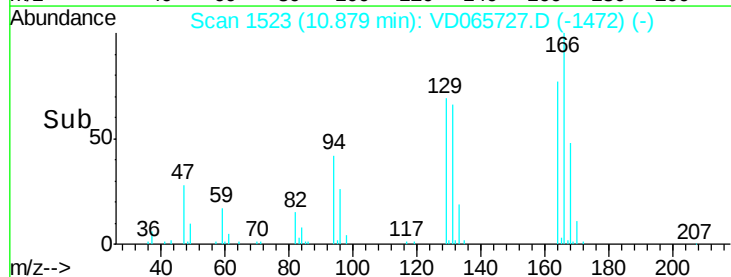
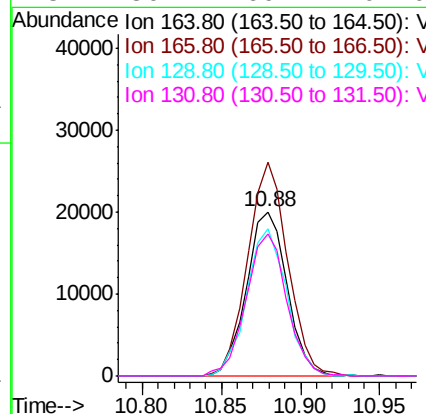
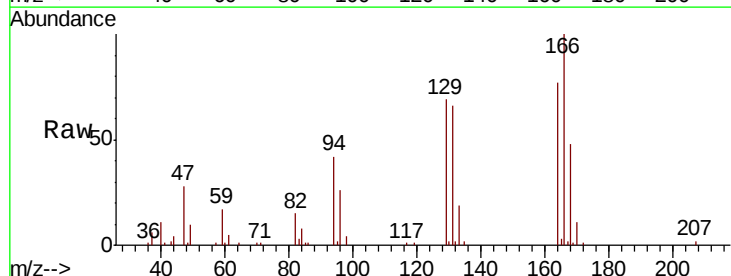
Instrument :  
MSVOA\_D  
ClientSampleId :

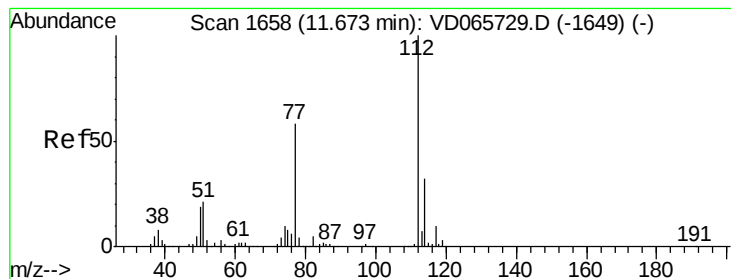
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.0  | 43.0  | 64.6  |
| 119     | 33.1  | 26.6  | 40.0  |



#64  
Tetrachloroethene  
Concen: 10.081 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 130.1 | 106.6 | 159.8 |
| 129     | 89.8  | 71.4  | 107.2 |
| 131     | 86.4  | 69.4  | 104.0 |





#65

Chlorobenzene

Concen: 9.808 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

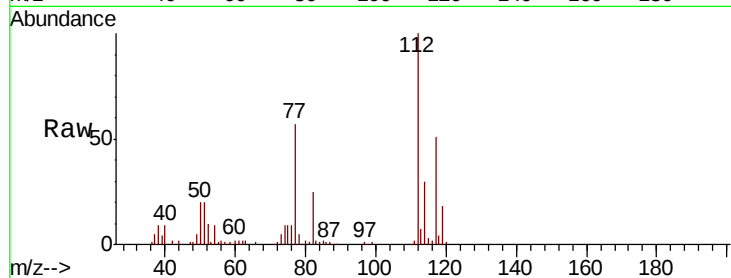
ClientSampleId :

Tot Ion:112 Resp: 97976

Ion Ratio Lower Upper

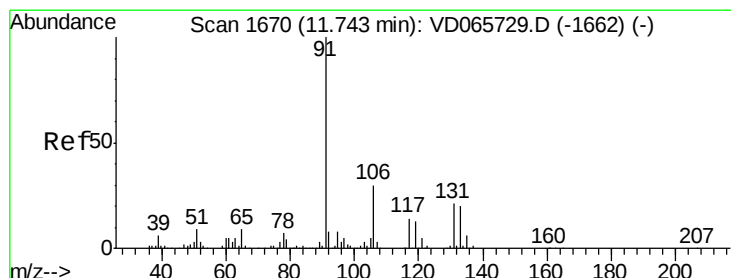
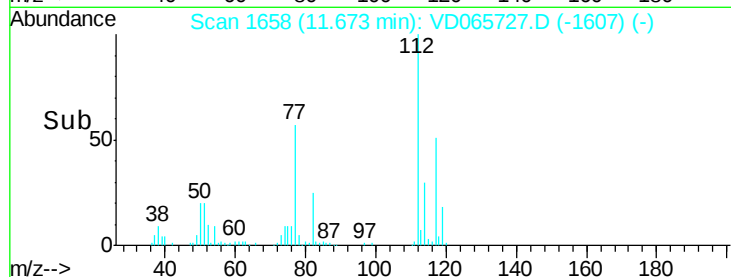
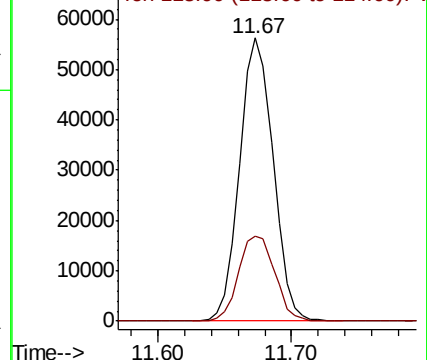
112 100

114 30.2 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 9.716 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

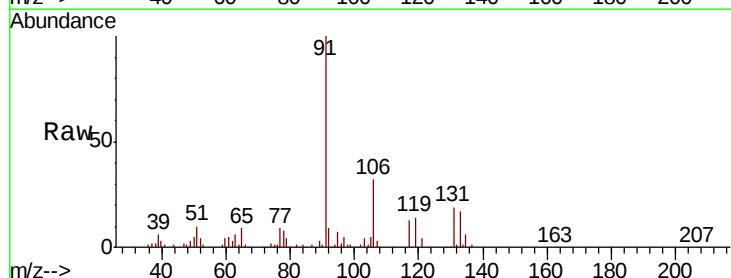
Tgt Ion:131 Resp: 36128

Ion Ratio Lower Upper

131 100

133 94.3 47.6 142.8

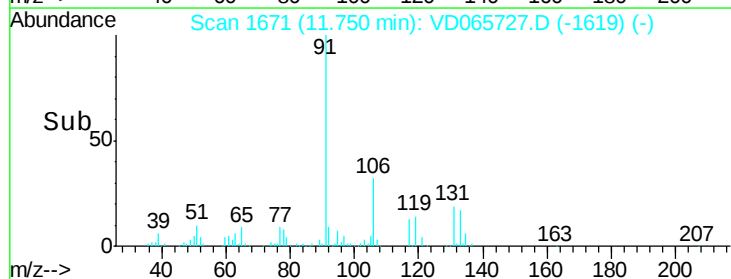
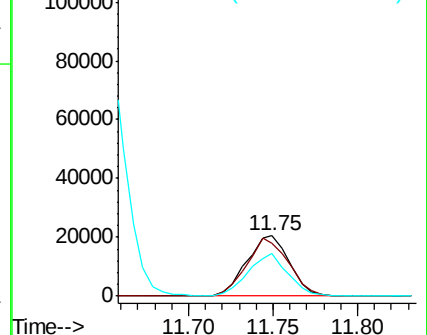
119 66.5 31.6 95.0

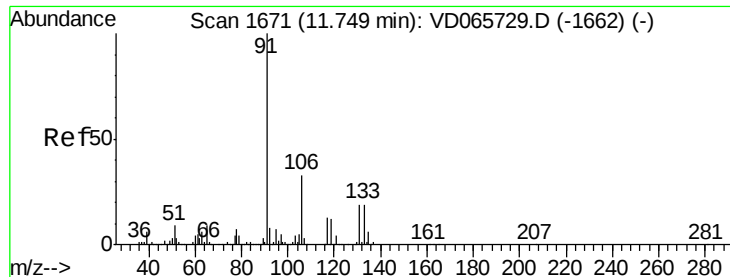


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

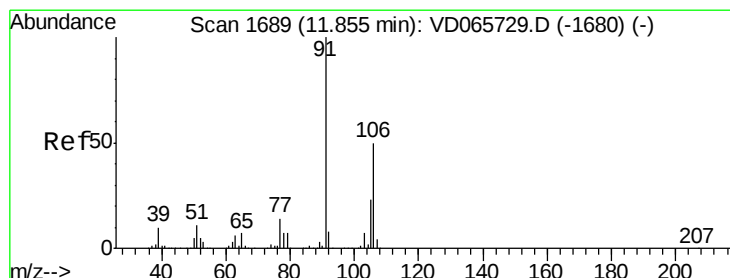
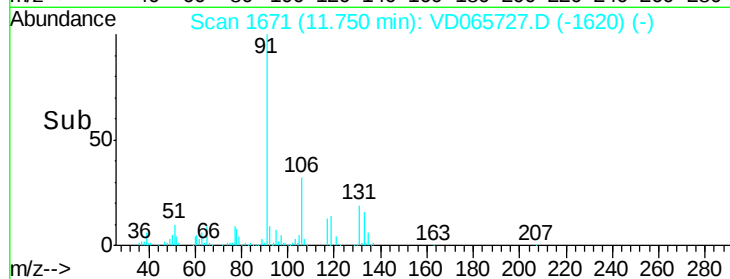
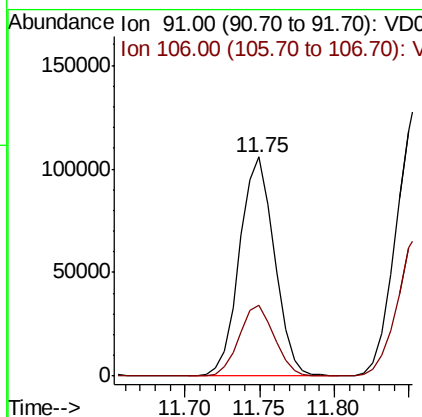
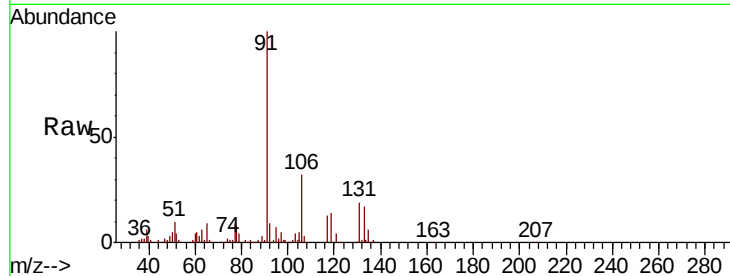




#67  
Ethyl Benzene  
Concen: 9.283 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

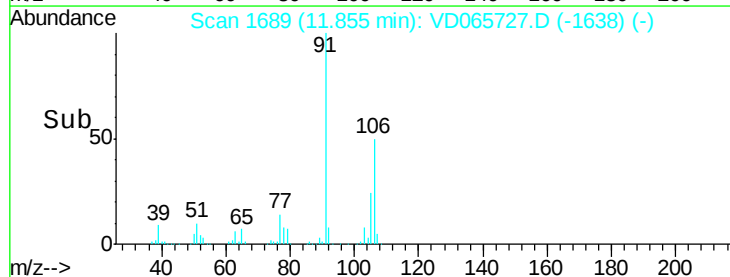
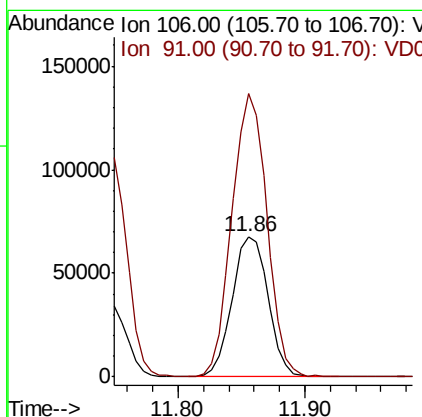
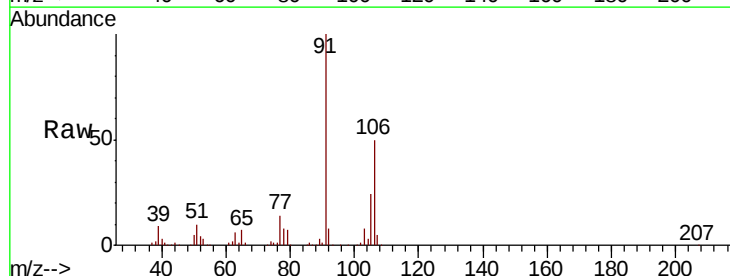
Instrument :  
MSVOA\_D  
ClientSampleId :

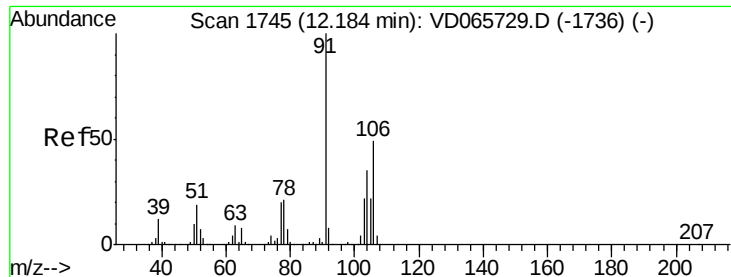
Tot Ion: 91 Resp: 171858  
Ion Ratio Lower Upper  
91 100  
106 32.1 26.6 40.0



#68  
m/p-Xylenes  
Concen: 19.223 ug/l  
RT: 11.86 min Scan# 1689  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 106 Resp: 133194  
Ion Ratio Lower Upper  
106 100  
91 196.8 158.7 238.1

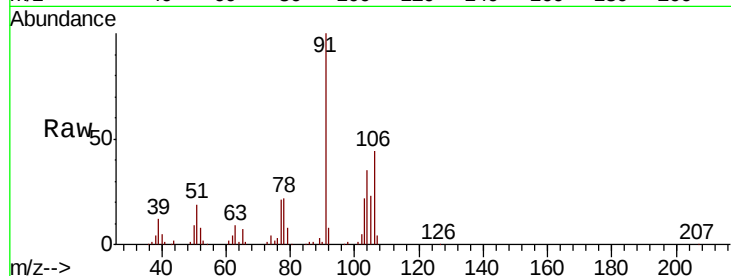




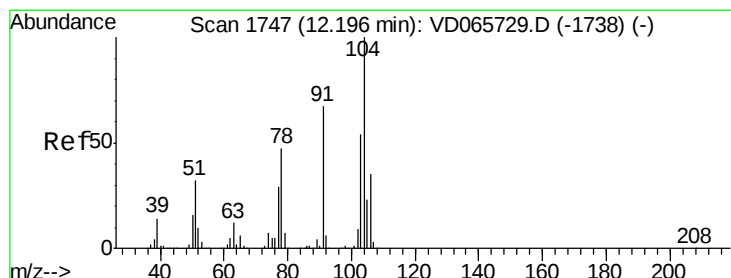
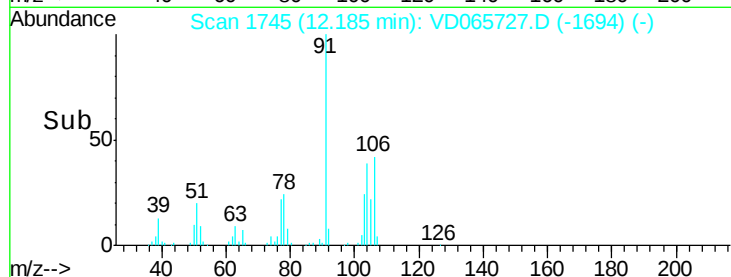
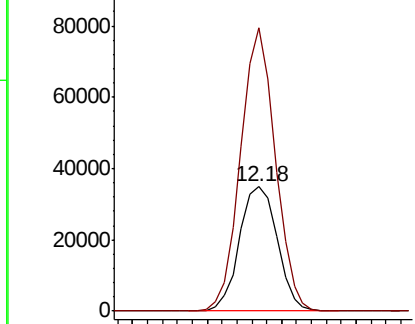
#69  
o-Xylene  
Concen: 9.485 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:106 Resp: 61351  
Ion Ratio Lower Upper  
106 100  
91 208.9 101.8 305.4

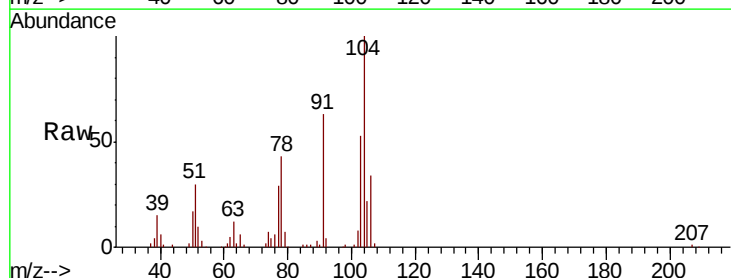


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): V

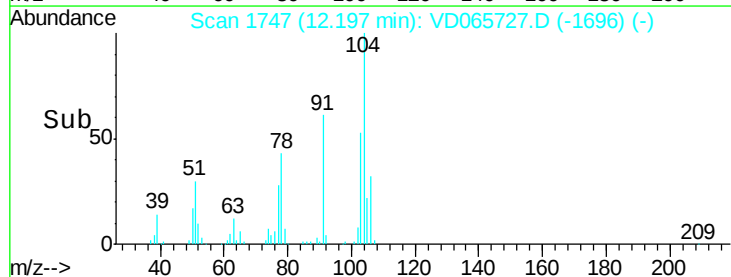
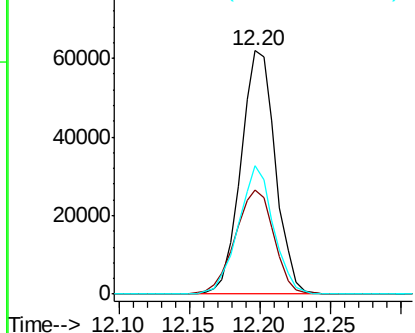


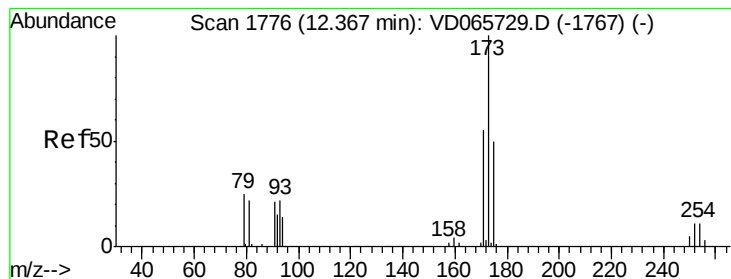
#70  
Styrene  
Concen: 9.545 ug/l  
RT: 12.20 min Scan# 1747  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion:104 Resp: 105914  
Ion Ratio Lower Upper  
104 100  
78 47.7 39.0 58.6  
103 53.5 44.0 66.0



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): V  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 9.279 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampled :

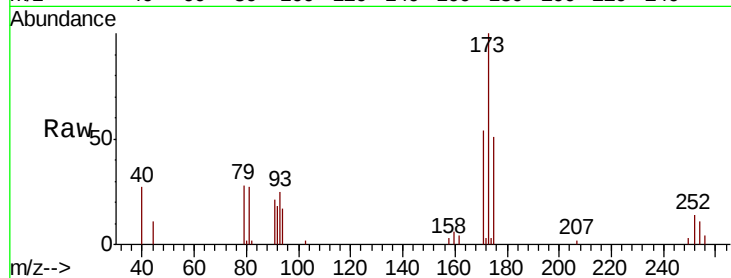
Tot Ion:173 Resp: 19439

Ion Ratio Lower Upper

173 100

175 50.0 24.6 73.6

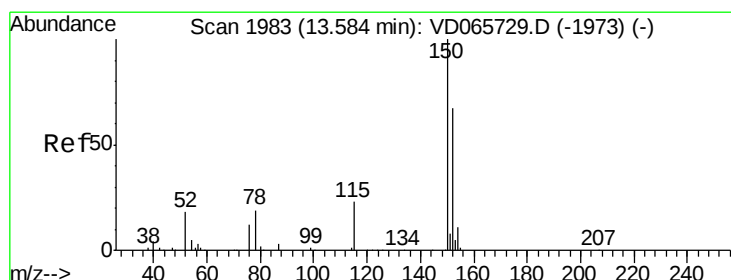
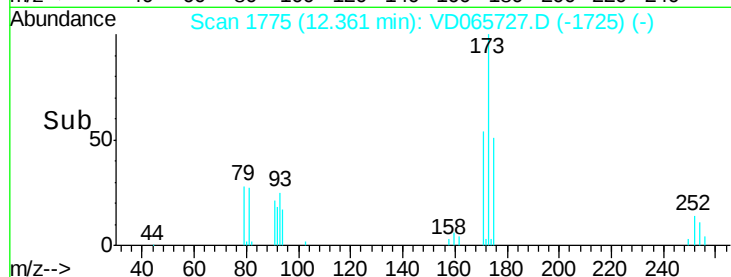
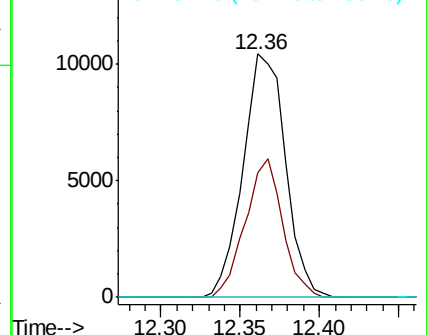
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

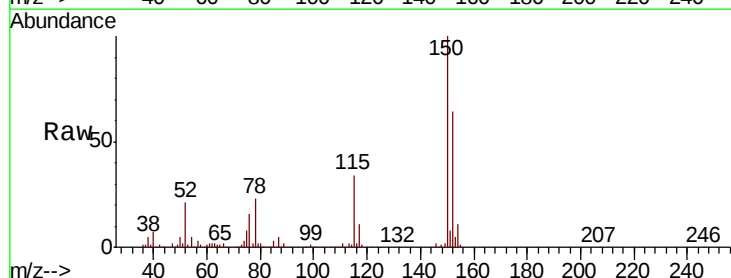
Tgt Ion:152 Resp: 249575

Ion Ratio Lower Upper

152 100

115 55.1 28.1 84.3

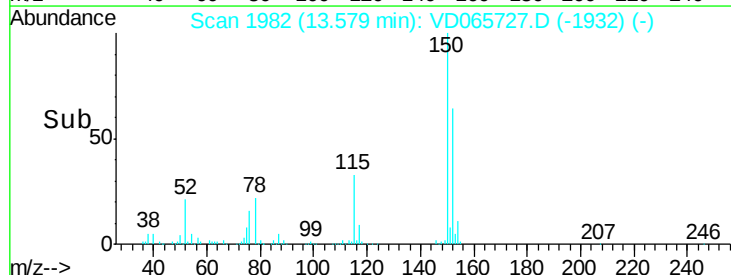
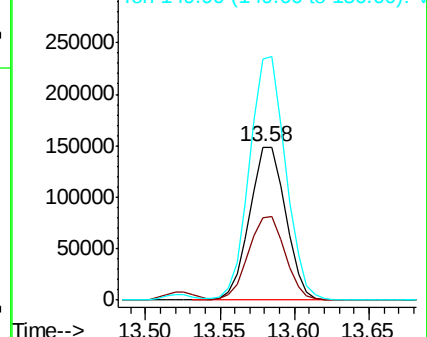
150 158.5 0.0 343.2

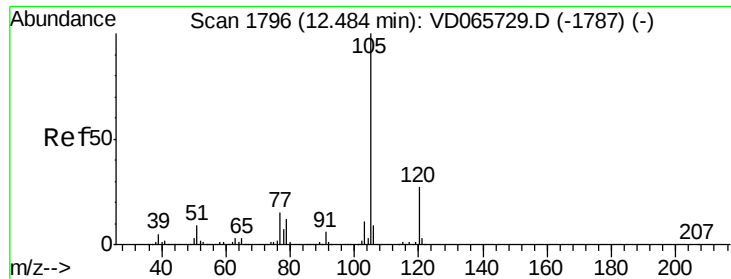


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

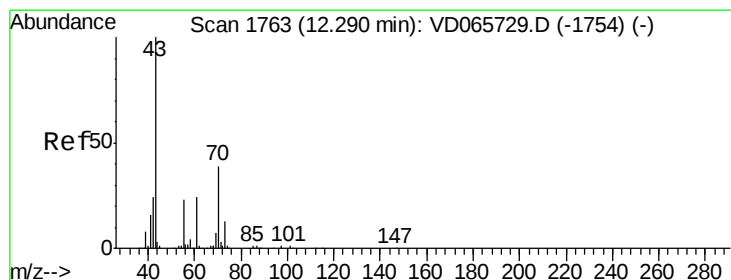
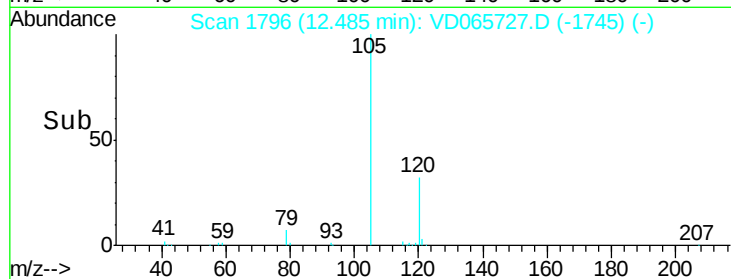
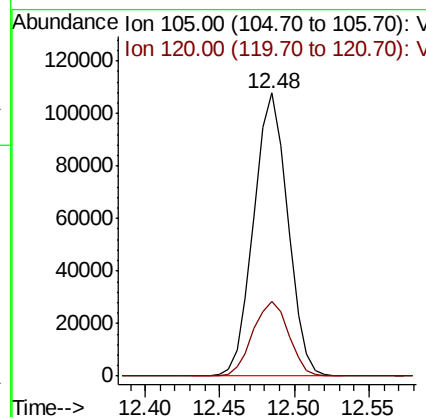
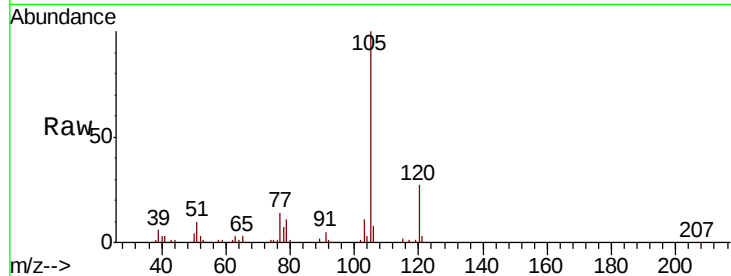




#73  
Isopropylbenzene  
Concen: 9.183 ug/l  
RT: 12.48 min Scan# 1796  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

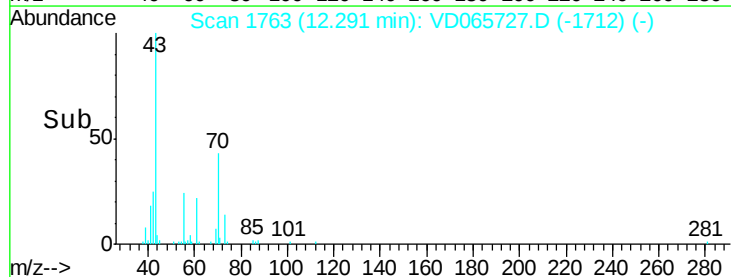
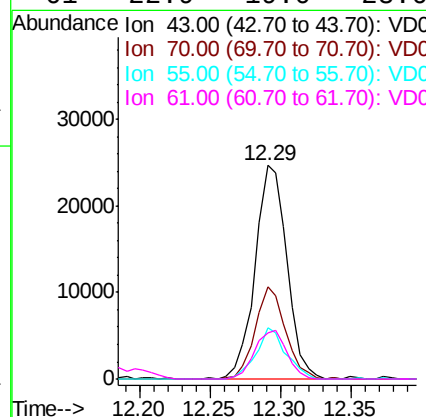
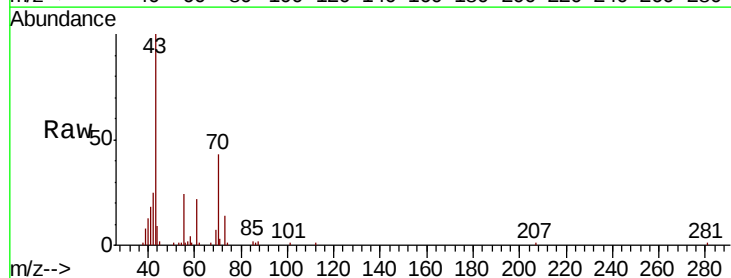
Instrument :  
MSVOA\_D  
ClientSampleId :

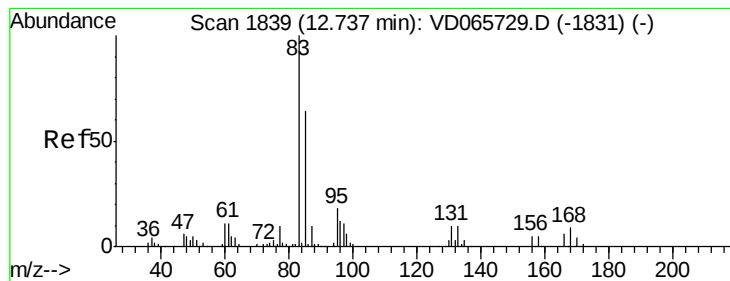
Tot Ion:105 Resp: 169890  
Ion Ratio Lower Upper  
105 100  
120 28.0 13.7 41.0



#74  
N-ethyl acetate  
Concen: 7.646 ug/l  
RT: 12.29 min Scan# 1763  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 43 Resp: 39282  
Ion Ratio Lower Upper  
43 100  
70 41.1 31.8 47.6  
55 22.5 17.9 26.9  
61 22.9 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 8.698 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampleId :

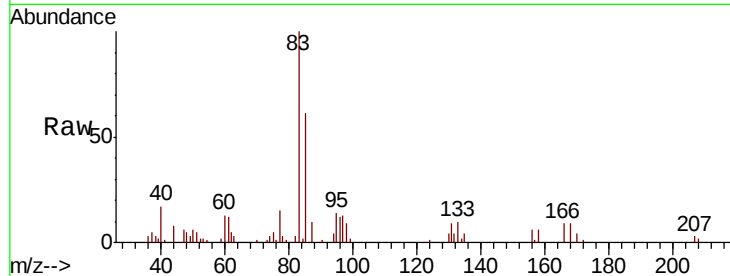
Tot Ion: 83 Resp: 26768

Ion Ratio Lower Upper

83 100

131 11.3 5.9 17.6

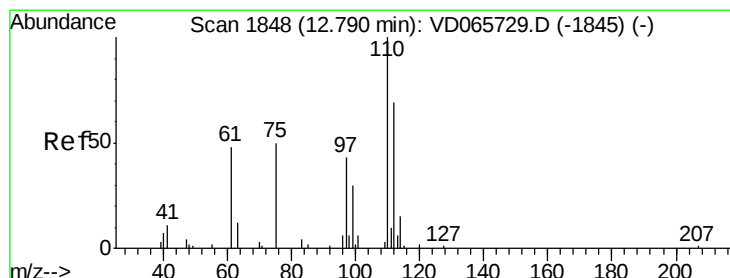
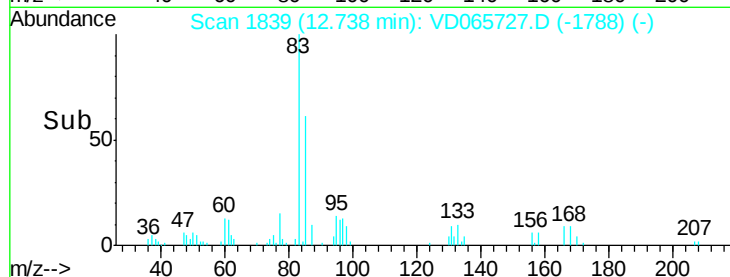
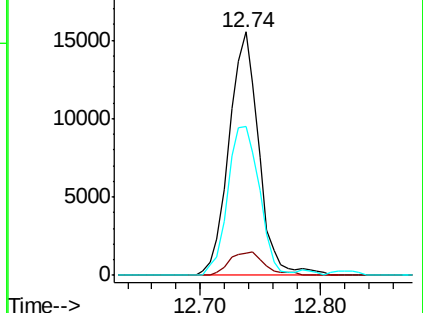
85 64.8 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 18.241 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD065727.D

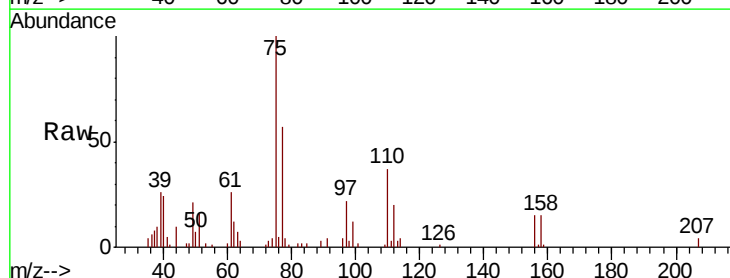
Acq: 13 May 2020 12:27

Tgt Ion: 75 Resp: 37769

Ion Ratio Lower Upper

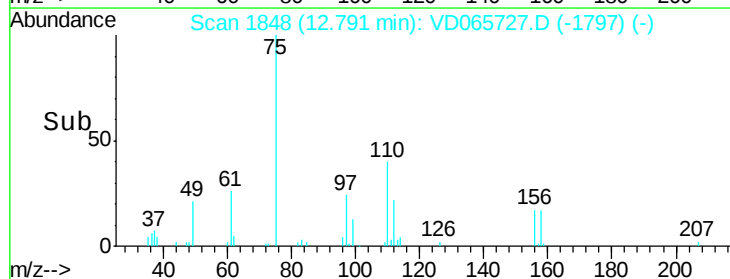
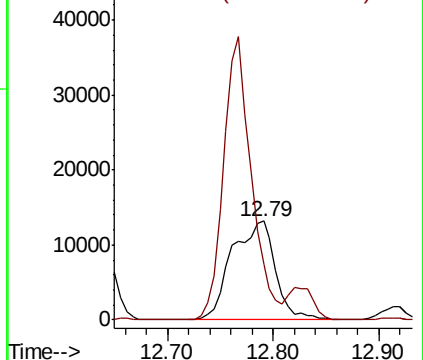
75 100

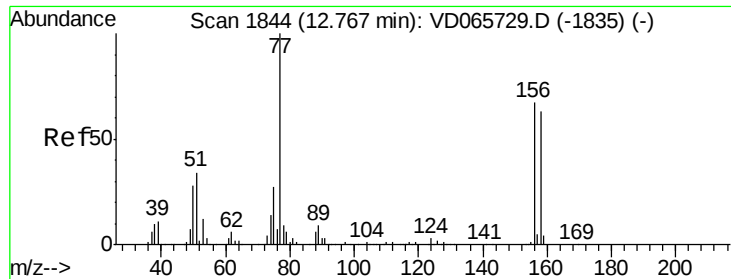
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 9.593 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampleId :

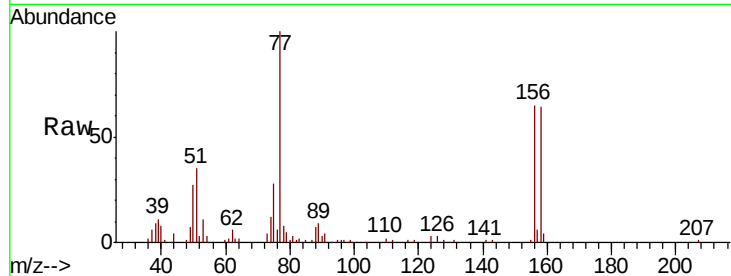
Tot Ion:156 Resp: 41018

Ion Ratio Lower Upper

156 100

77 169.0 84.9 254.6

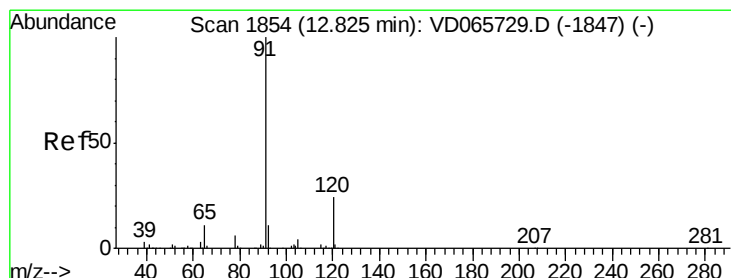
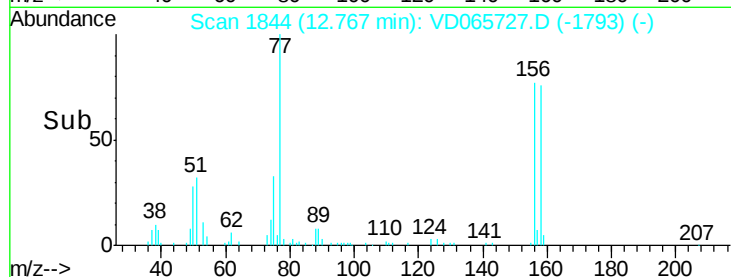
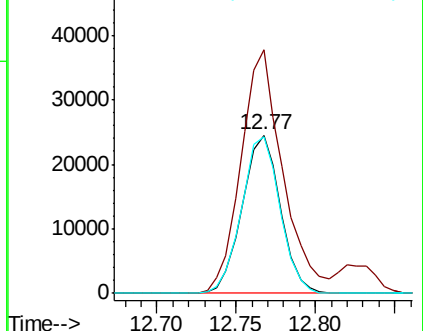
158 99.4 48.8 146.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 9.082 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065727.D

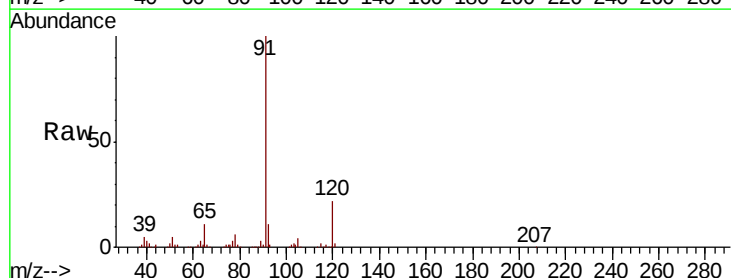
Acq: 13 May 2020 12:27

Tgt Ion: 91 Resp: 197269

Ion Ratio Lower Upper

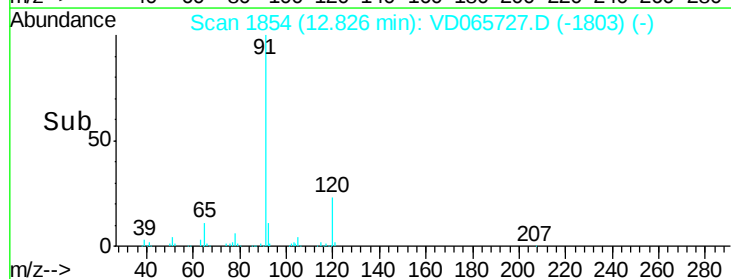
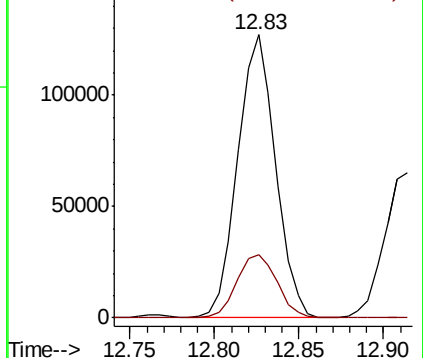
91 100

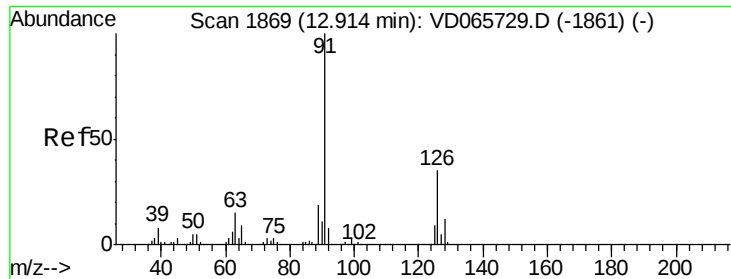
120 23.7 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

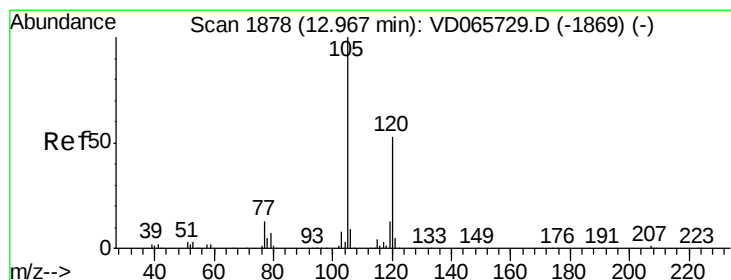
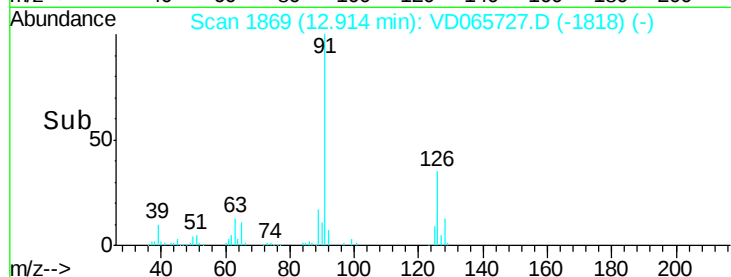
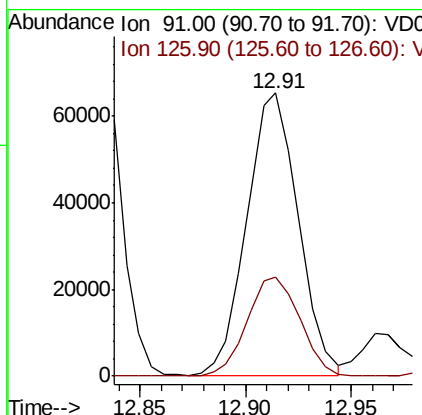
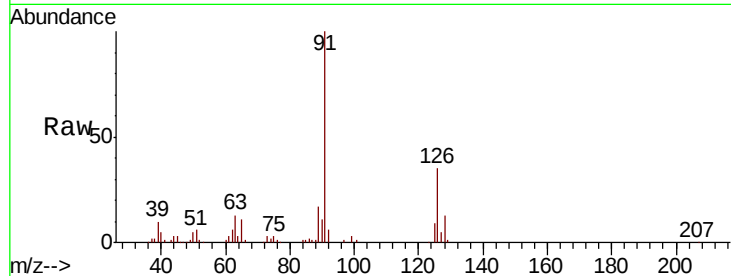




#79  
 2-Chlorotoluene  
 Concen: 9.009 ug/l  
 RT: 12.91 min Scan# 1869  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

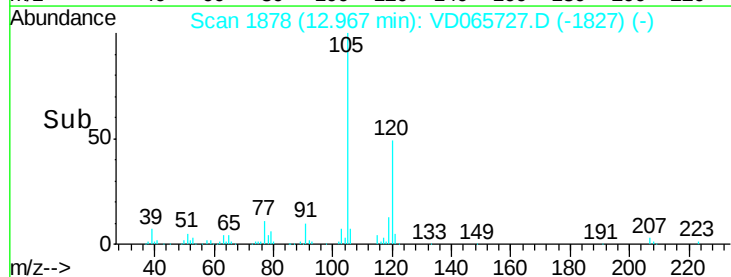
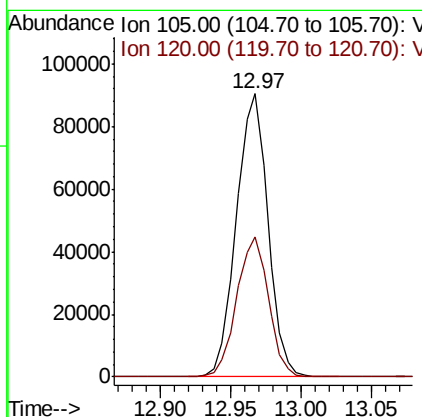
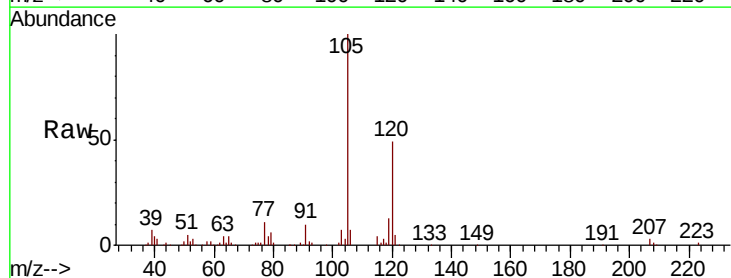
Instrument :  
 MSVOA\_D  
 ClientSampleId :

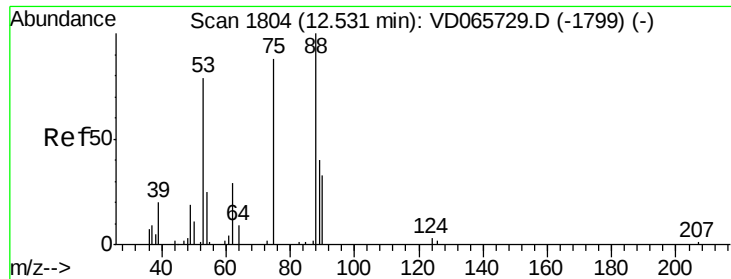
Tot Ion: 91 Resp: 110418  
 Ion Ratio Lower Upper  
 91 100  
 126 36.0 18.1 54.1



#80  
 1,3,5-Trimethylbenzene  
 Concen: 9.323 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion:105 Resp: 141282  
 Ion Ratio Lower Upper  
 105 100  
 120 49.9 25.7 77.0





#81

trans-1,4-Dichloro-2-butene

Concen: 8.332 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

ClientSampleId :

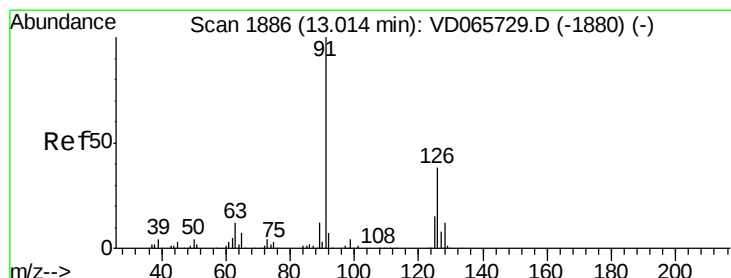
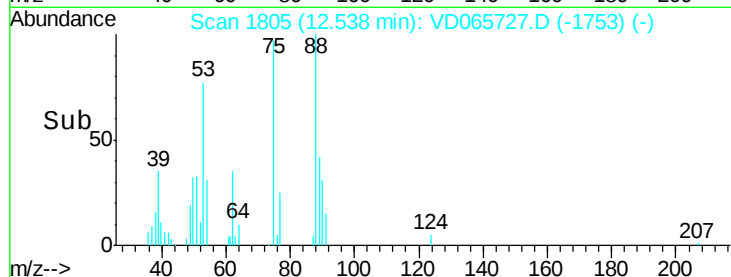
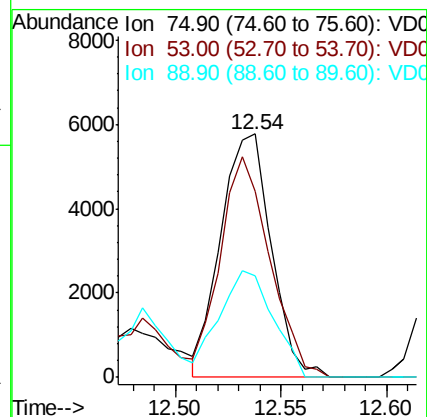
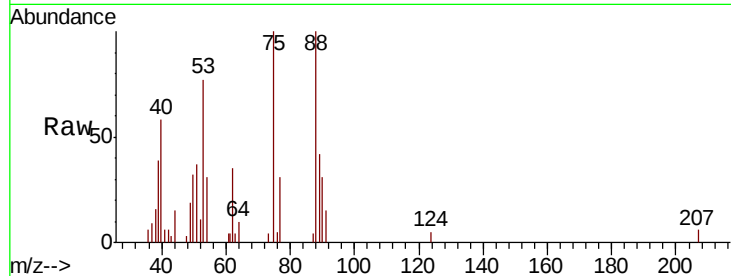
Tot Ion: 75 Resp: 9580

Ion Ratio Lower Upper

75 100

53 89.1 72.6 109.0

89 46.5 37.0 55.4



#82

4-Chlorotoluene

Concen: 9.092 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD065727.D

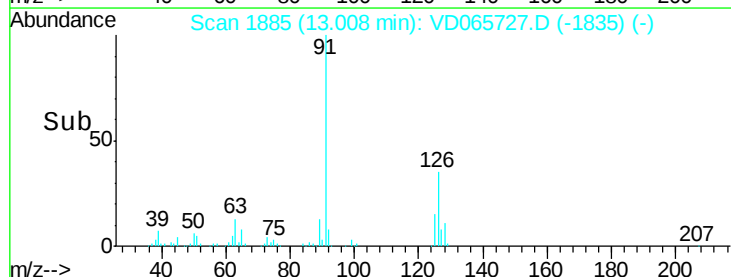
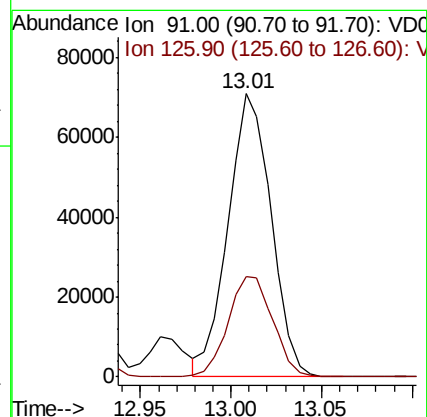
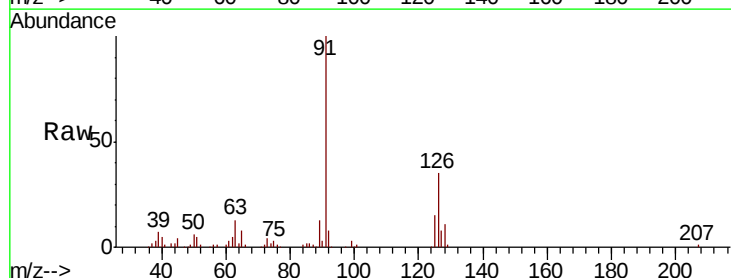
Acq: 13 May 2020 12:27

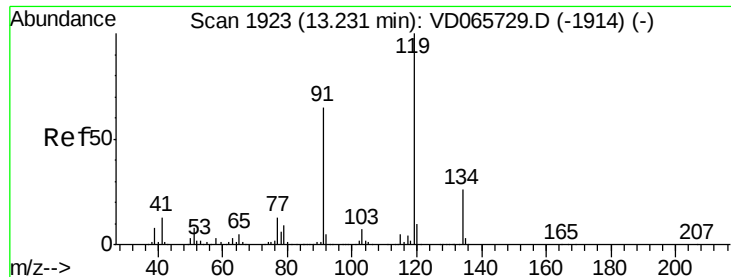
Tgt Ion: 91 Resp: 116777

Ion Ratio Lower Upper

91 100

126 36.6 17.8 53.3

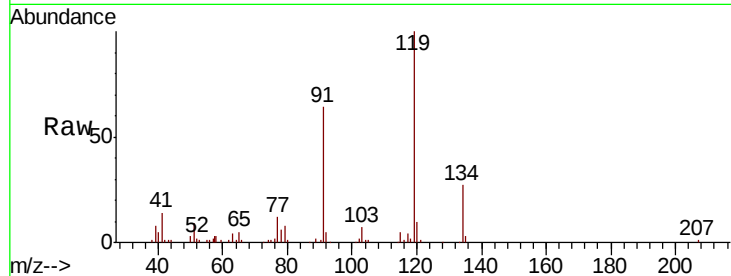




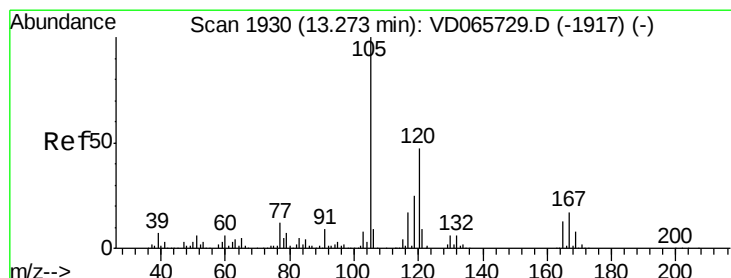
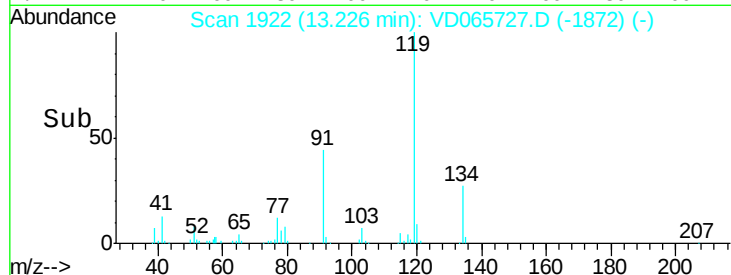
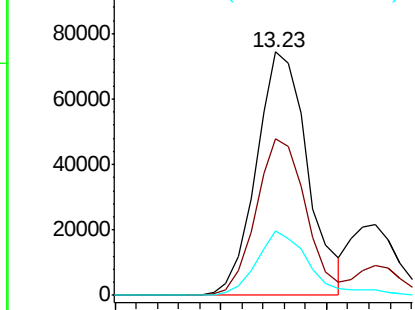
#83  
tert-Butylbenzene  
Concen: 9.669 ug/l  
RT: 13.23 min Scan# 1922  
Delta R.T. -0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:119 Resp: 125620  
Ion Ratio Lower Upper  
119 100  
91 62.6 31.6 95.0  
134 27.3 12.7 38.1

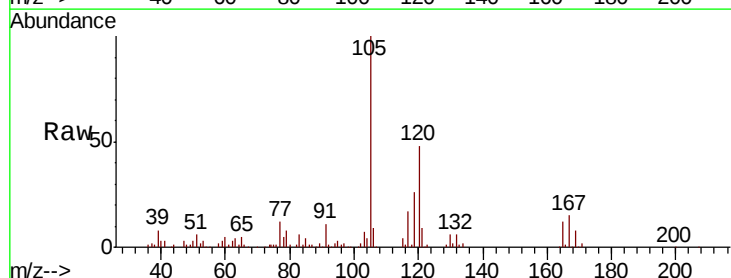


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

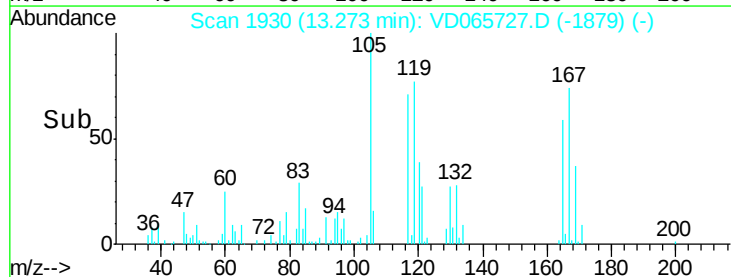
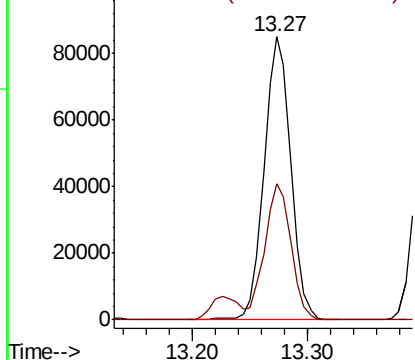


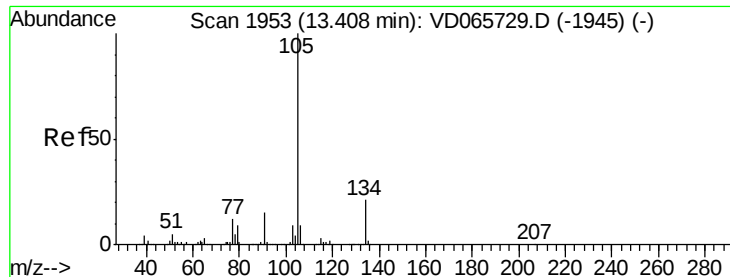
#84  
1,2,4-Trimethylbenzene  
Concen: 9.039 ug/l  
RT: 13.27 min Scan# 1930  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion:105 Resp: 136646  
Ion Ratio Lower Upper  
105 100  
120 47.6 23.6 70.8



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





#85

sec-Butylbenzene

Concen: 9.568 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

Instrument :

MSVOA\_D

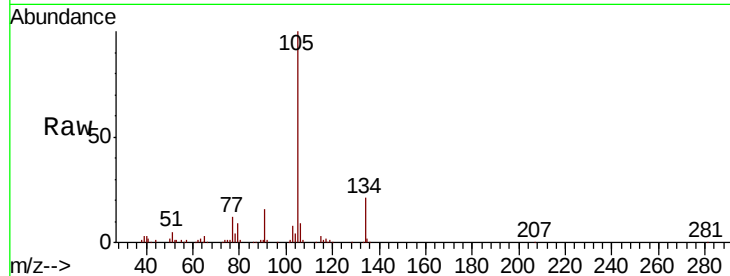
ClientSampleId :

Tot Ion:105 Resp: 173094

Ion Ratio Lower Upper

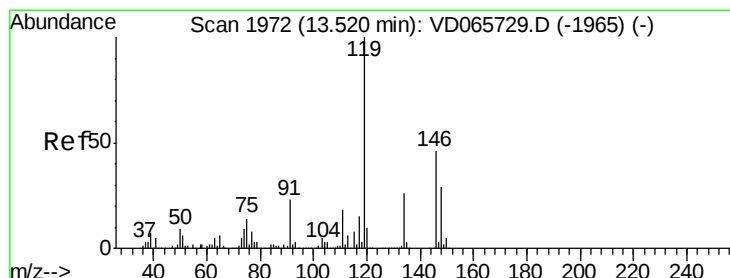
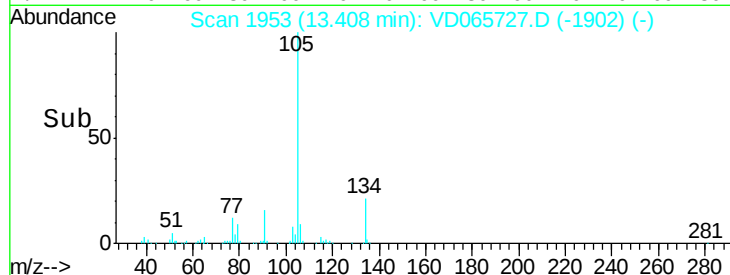
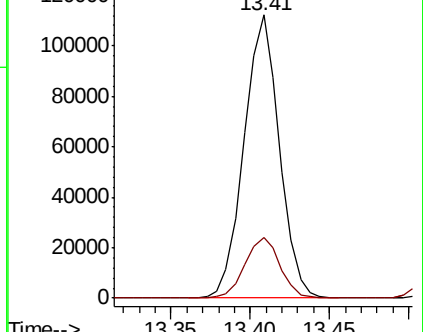
105 100

134 21.3 10.7 31.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 9.469 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065727.D

Acq: 13 May 2020 12:27

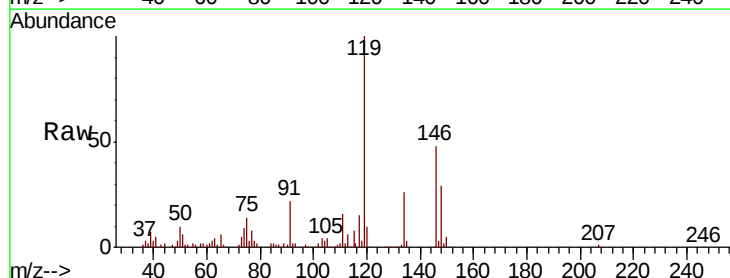
Tgt Ion:119 Resp: 156627

Ion Ratio Lower Upper

119 100

134 27.9 13.6 40.7

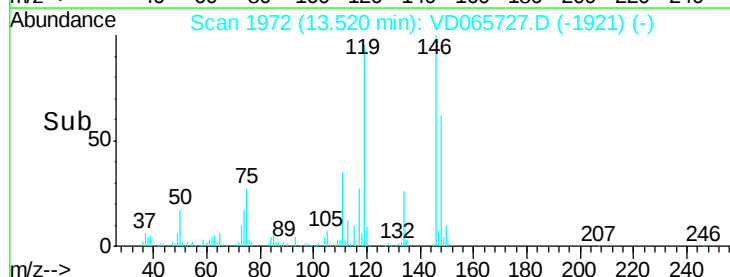
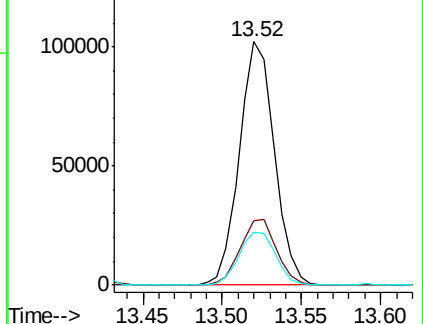
91 22.8 11.7 35.1

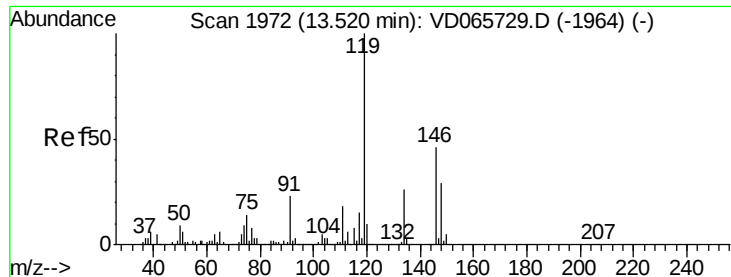


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

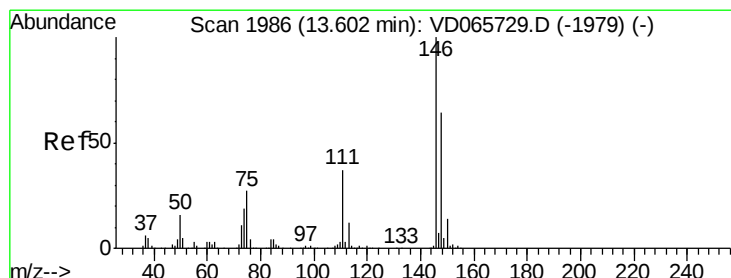
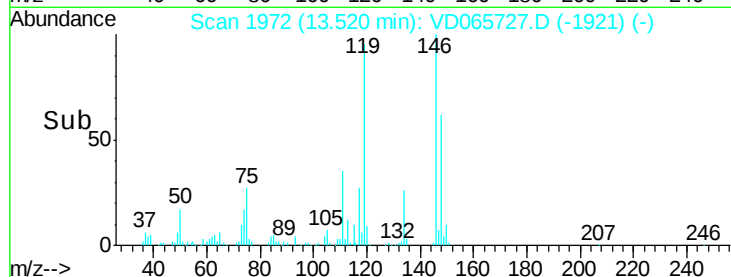
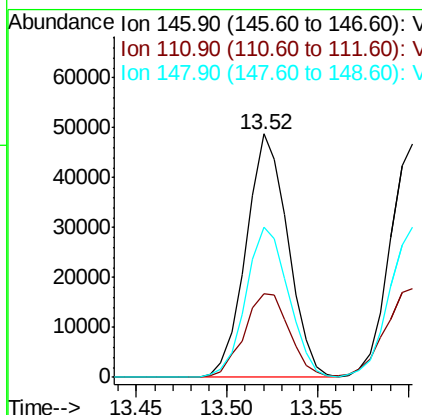
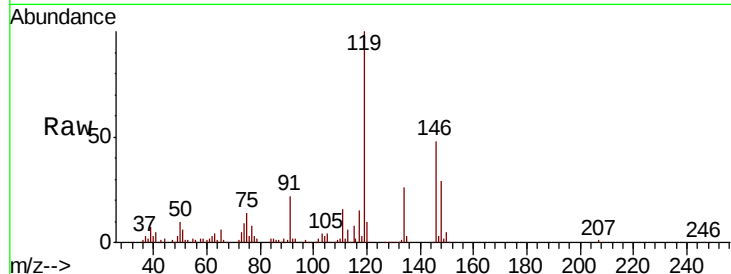




#87  
 1,3-Dichlorobenzene  
 Concen: 9.774 ug/l  
 RT: 13.52 min Scan# 1972  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

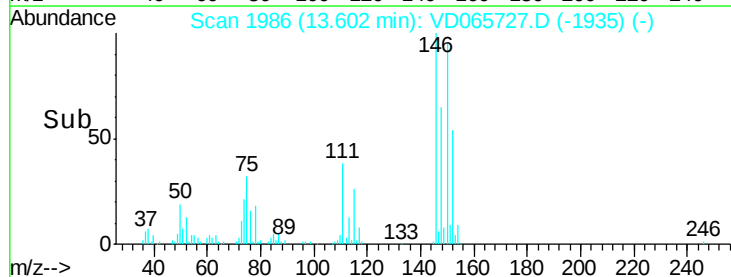
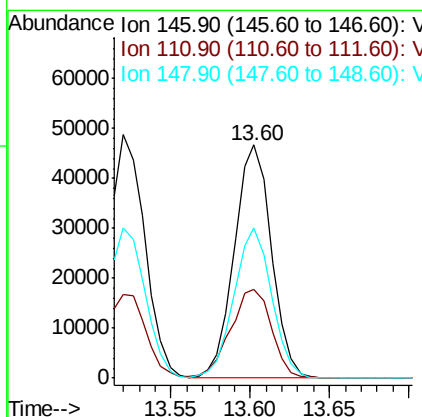
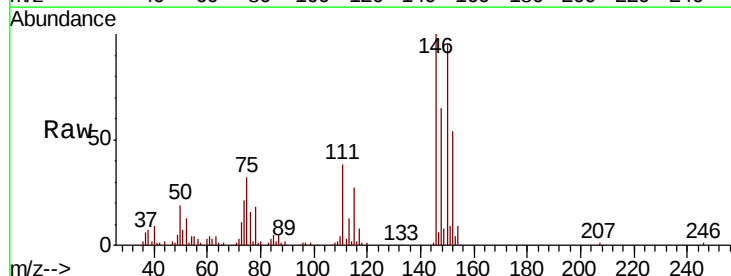
Instrument :  
 MSVOA\_D  
 ClientSampleId :

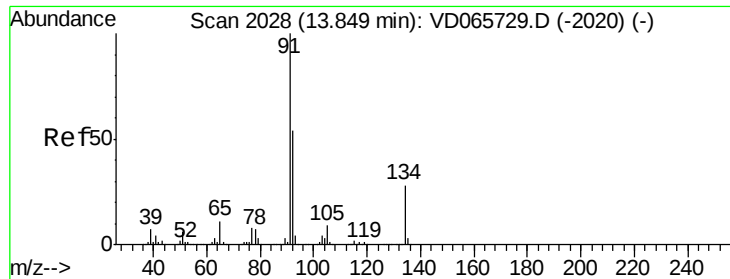
Tot Ion:146 Resp: 78377  
 Ion Ratio Lower Upper  
 146 100  
 111 37.1 18.9 56.9  
 148 62.6 31.9 95.5



#88  
 1,4-Dichlorobenzene  
 Concen: 9.599 ug/l  
 RT: 13.60 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion:146 Resp: 76090  
 Ion Ratio Lower Upper  
 146 100  
 111 42.1 18.4 55.2  
 148 65.1 31.6 94.7

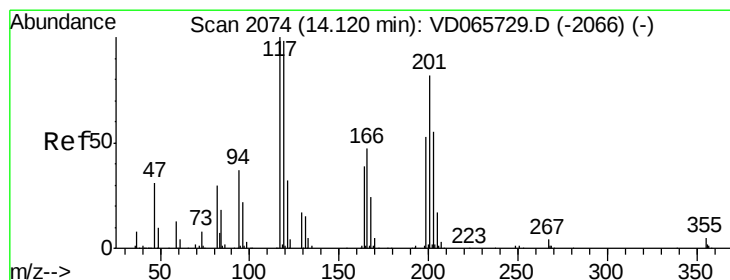
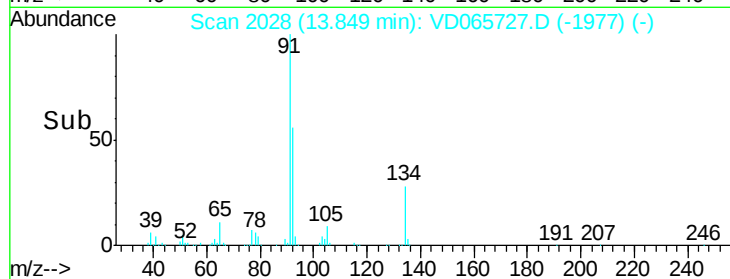
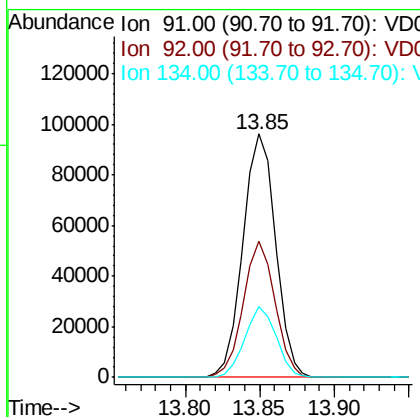
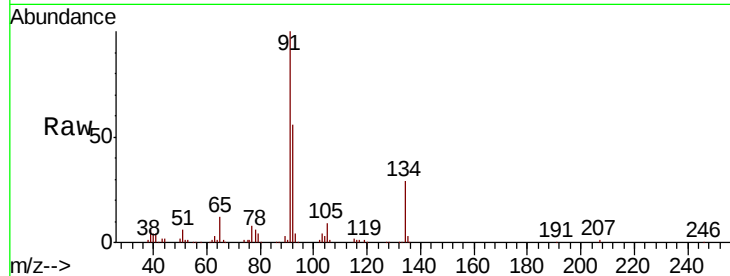




#89  
n-Butylbenzene  
Concen: 9.141 ug/l  
RT: 13.85 min Scan# 2028  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

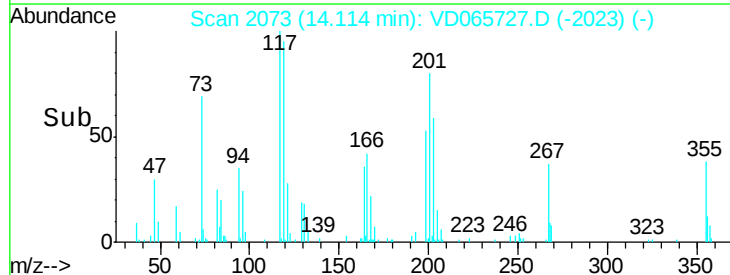
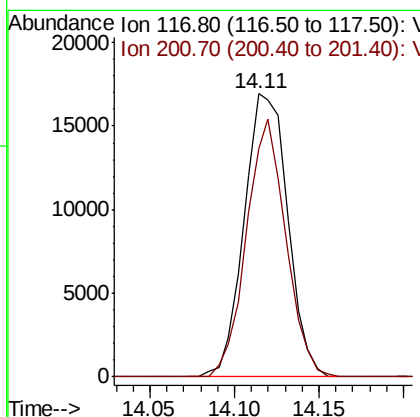
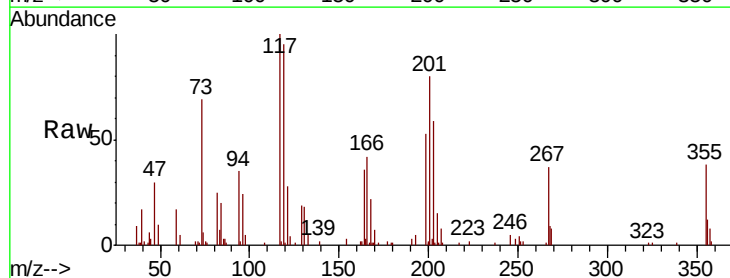
Instrument :  
MSVOA\_D  
ClientSampleId :

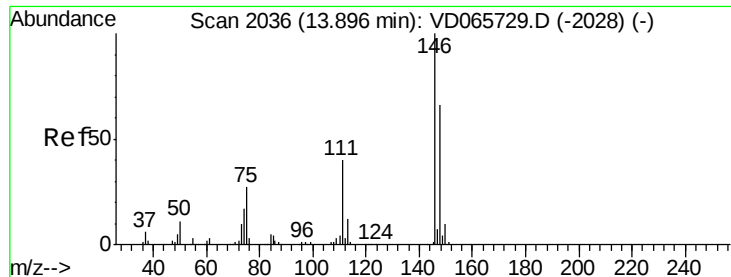
Tot Ion: 91 Resp: 145655  
Ion Ratio Lower Upper  
91 100  
92 54.4 27.0 81.0  
134 28.1 13.9 41.7



#90  
Hexachloroethane  
Concen: 9.245 ug/l  
RT: 14.11 min Scan# 2073  
Delta R.T. -0.01 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Tgt Ion: 117 Resp: 30362  
Ion Ratio Lower Upper  
117 100  
201 82.5 41.8 125.4

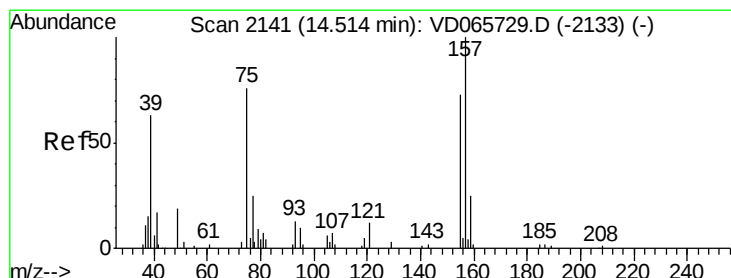
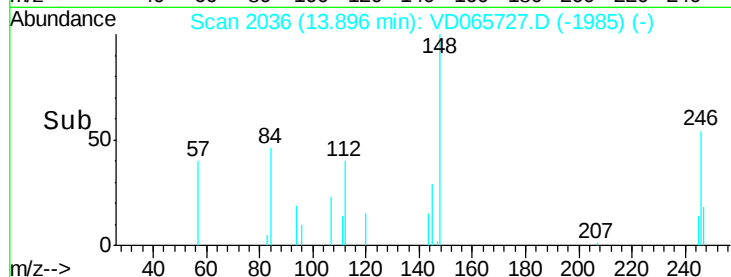
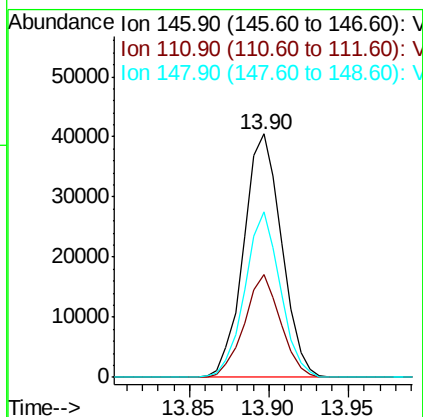
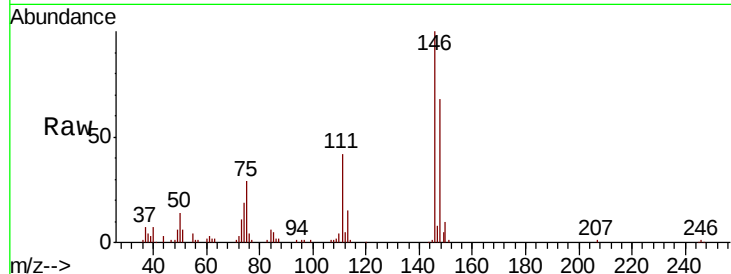




#91  
 1,2-Dichlorobenzene  
 Concen: 9.740 ug/l  
 RT: 13.90 min Scan# 2036  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

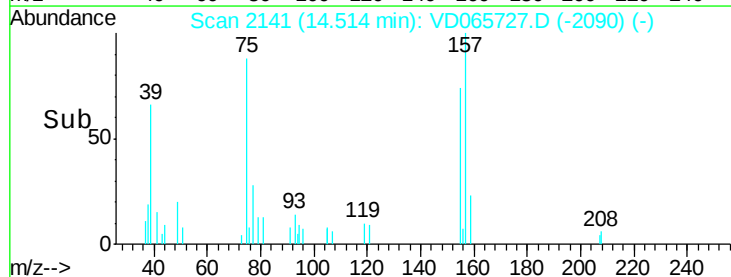
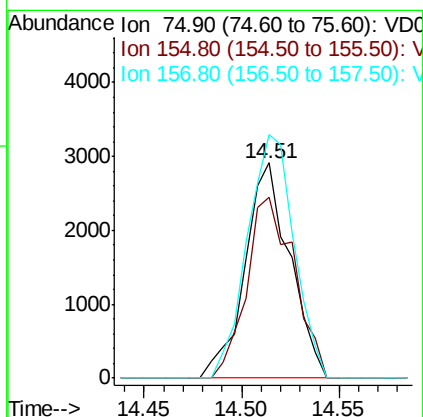
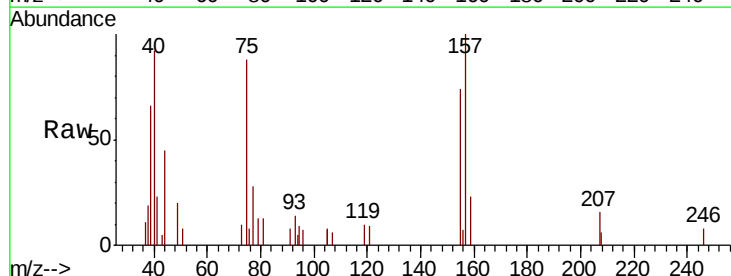
Instrument :  
 MSVOA\_D  
 ClientSampleId :

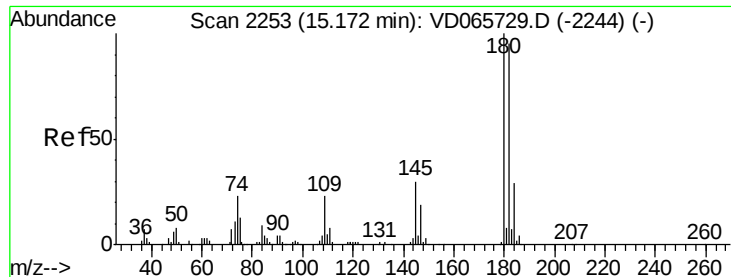
Tot Ion:146 Resp: 67368  
 Ion Ratio Lower Upper  
 146 100  
 111 40.3 20.0 60.0  
 148 63.7 32.4 97.2



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 9.025 ug/l  
 RT: 14.51 min Scan# 2141  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

Tgt Ion: 75 Resp: 4623  
 Ion Ratio Lower Upper  
 75 100  
 155 89.0 48.4 145.0  
 157 118.0 62.6 187.8

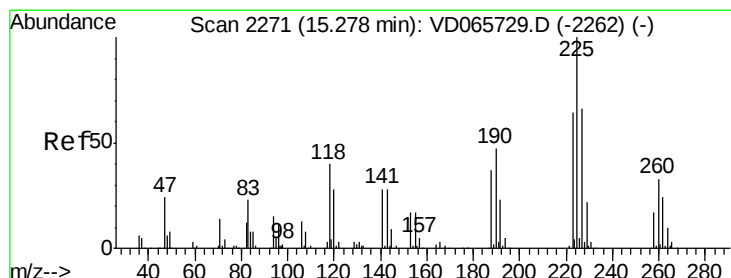
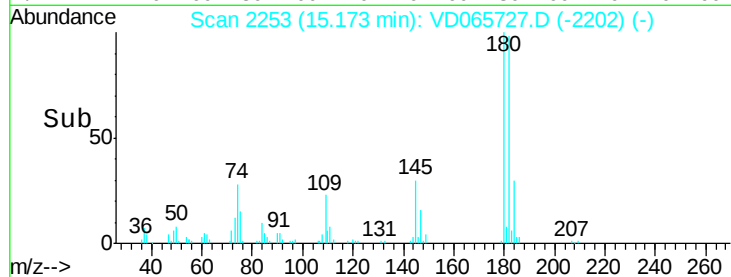
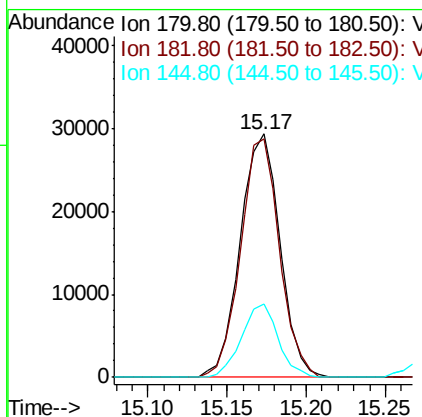
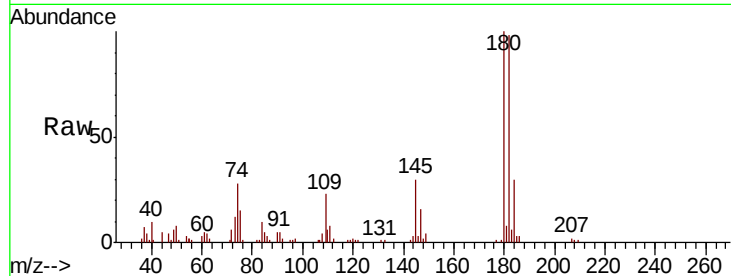




#93  
 1,2,4-Trichlorobenzene  
 Concen: 9.829 ug/l  
 RT: 15.17 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

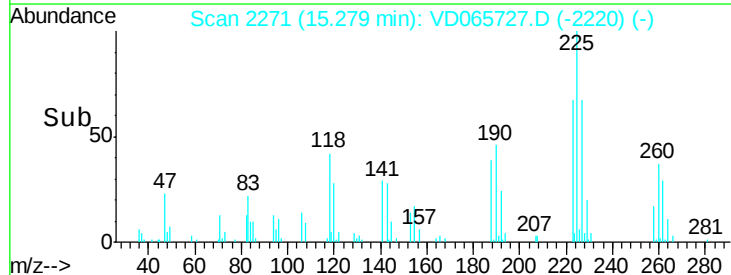
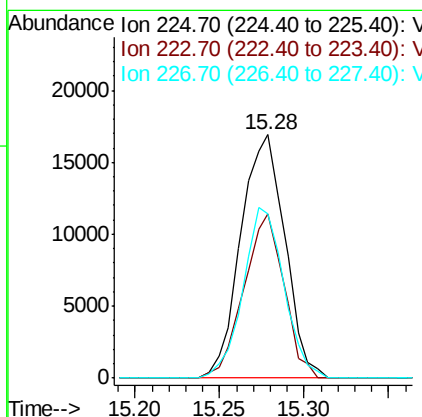
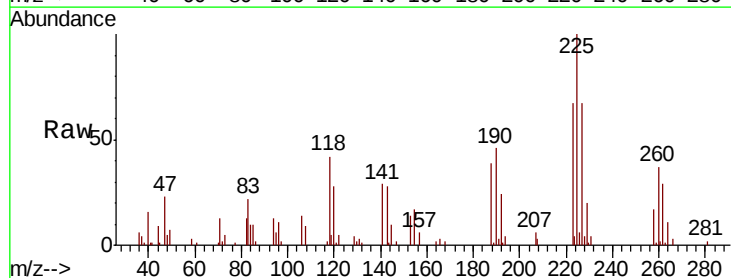
Instrument :  
 MSVOA\_D  
 ClientSampleId :

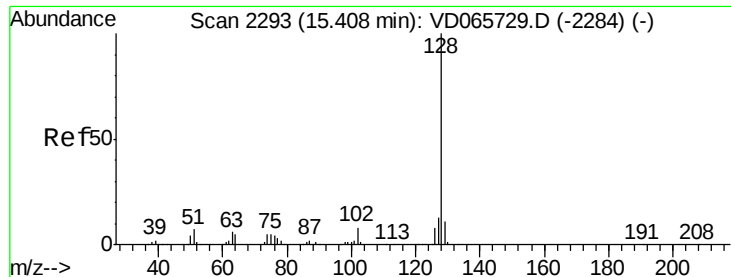
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.8  | 47.0  | 141.0 |
| 145     | 28.0  | 14.5  | 43.6  |



#94  
 Hexachlorobutadiene  
 Concen: 10.152 ug/l  
 RT: 15.28 min Scan# 2271  
 Delta R.T. 0.00 min  
 Lab File: VD065727.D  
 Acq: 13 May 2020 12:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.4  | 31.4  | 94.2  |
| 227     | 65.2  | 32.2  | 96.6  |

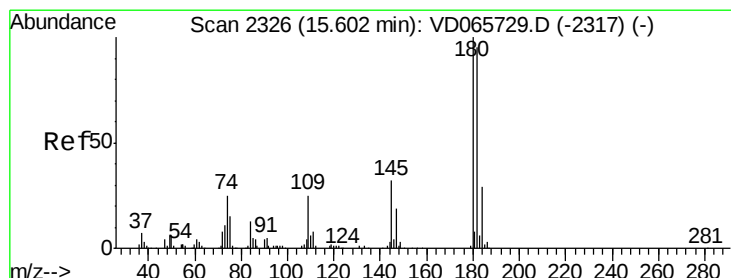
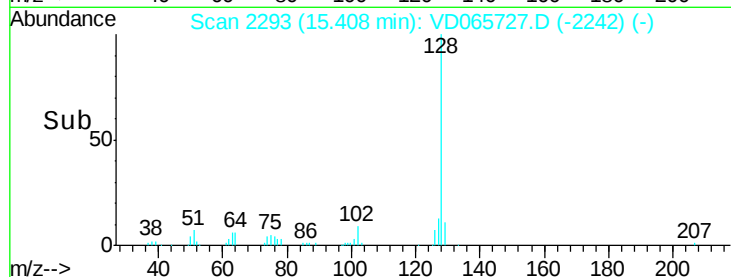
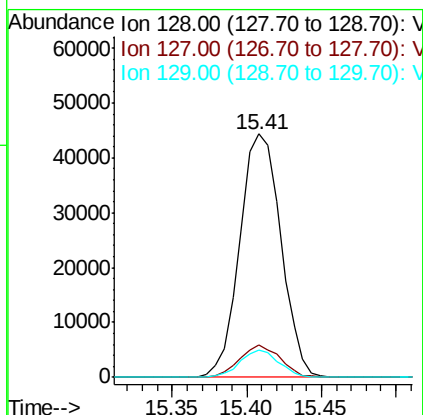
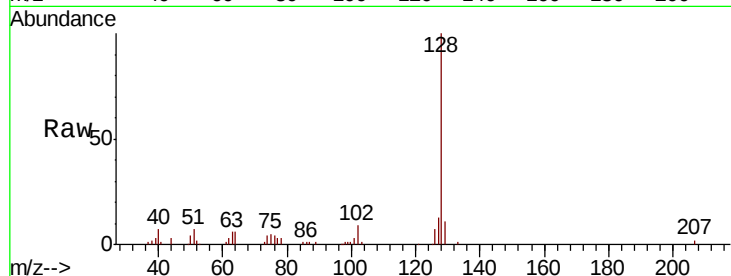




#95  
Naphthalene  
Concen: 9.367 ug/l  
RT: 15.41 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.1  | 10.2  | 15.2  |
| 129     | 10.5  | 8.8   | 13.2  |



#96  
1,2,3-Trichlorobenzene  
Concen: 9.992 ug/l  
RT: 15.60 min Scan# 2326  
Delta R.T. 0.00 min  
Lab File: VD065727.D  
Acq: 13 May 2020 12:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.1  | 47.5  | 142.6 |
| 145     | 29.9  | 15.9  | 47.6  |

