

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW051518\  
 Data File : VW002550.D  
 Acq On : 15 May 2018 13:53  
 Operator : JC/SY  
 Sample : VW0515SBSD02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

Quant Time: May 16 05:43:36 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 233514   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 345568   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 316792   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 172105   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 121297   | 50.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.54% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 110917   | 50.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.18% |      |
| 50) Toluene-d8            | 10.33  | 98  | 437254   | 52.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.86% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 154876   | 50.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.56% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 16157  | 17.93  | ug/l   | 90     |
| 3) Chloromethane              | 2.21 | 50  | 34677  | 20.12  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 54517  | 20.17  | ug/l   | 99     |
| 5) Bromomethane               | 2.76 | 94  | 46403  | 20.94  | ug/l   | 93     |
| 6) Chloroethane               | 2.92 | 64  | 39167  | 21.06  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 26255  | 22.05  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.67 | 74  | 26861  | 18.85  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 42203  | 21.39  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.26 | 142 | 62894  | 20.00  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.19 | 59  | 18322  | 98.78  | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 39122  | 20.03  | ug/l   | 96     |
| 13) Acrolein                  | 3.88 | 56  | 18093  | 99.01  | ug/l   | 97     |
| 14) Allyl chloride            | 4.66 | 41  | 58442  | 20.16  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 48630  | 94.62  | ug/l   | 98     |
| 16) Acetone                   | 4.12 | 43  | 61502  | 120.73 | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.37 | 76  | 110323 | 20.53  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 24884  | 16.76  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 71509  | 19.93  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.90 | 84  | 42736  | 19.40  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 42904  | 20.32  | ug/l   | 93     |
| 22) Diisopropyl ether         | 6.31 | 45  | 126756 | 19.74  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.25 | 43  | 393333 | 101.09 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.20 | 63  | 77124  | 19.93  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 73176  | 101.58 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 46311  | 21.36  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 47553  | 19.74  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 33913  | 19.63  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 43388  | 96.41  | ug/l   | 98     |
| 30) Chloroform                | 7.67 | 83  | 81315  | 19.68  | ug/l   | 93     |
| 31) Cyclohexane               | 7.95 | 56  | 70105  | 20.45  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 64801  | 20.79  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 63412  | 20.79  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 30294  | 20.03  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 61544  | 20.61  | ug/l   | 100    |

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 Data File : VW002550.D  
 Acq On : 15 May 2018 13:53  
 Operator : JC/SY  
 Sample : VW0515SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBS02

Quant Time: May 16 05:43:36 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 73059    | 20.92  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 178581   | 20.40  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 16049    | 18.96  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 55790    | 20.06  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 56761    | 19.51  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 49283    | 20.54  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 44913    | 20.13  | ug/l   | 92       |
| 46) Dibromomethane             | 9.46  | 93   | 25087    | 19.76  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.65  | 83   | 58804    | 19.86  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.44  | 41   | 26517    | 18.81  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 7621     | 360.19 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 151405   | 94.80  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 115136   | 20.80  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 59608    | 19.91  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 68805    | 20.62  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 35173    | 19.66  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 42468    | 19.48  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 59090    | 19.92  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 110034   | 102.83 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 110897   | 100.58 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 40471    | 19.18  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 34052    | 19.73  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 42998    | 19.26  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.66 | 112  | 128950   | 20.44  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 46168    | 20.44  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.74 | 91   | 221392   | 20.65  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.85 | 106  | 172811   | 41.45  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 80841    | 20.41  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 133773   | 20.29  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 25758    | 19.41  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 222946   | 21.02  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 54443    | 20.14  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 41938    | 19.51  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 55232    | 33.95  | ug/l # | 100      |
| 77) Bromobenzene               | 12.76 | 156  | 55947    | 20.67  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.82 | 91   | 273650   | 21.36  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 153355   | 21.08  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 192015   | 21.21  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 12001    | 20.11  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.00 | 91   | 162878   | 20.70  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.22 | 119  | 170726   | 21.84  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 195552   | 20.81  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 238020   | 21.19  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 215502   | 21.33  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 113021   | 20.64  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 114225   | 20.97  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 205823   | 21.53  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 37317    | 20.62  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 100451   | 20.22  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7501     | 19.78  | ug/l   | 97       |

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW051518\  
Data File : VW002550.D  
Acq On : 15 May 2018 13:53  
Operator : JC/SY  
Sample : VW0515SBSD02  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

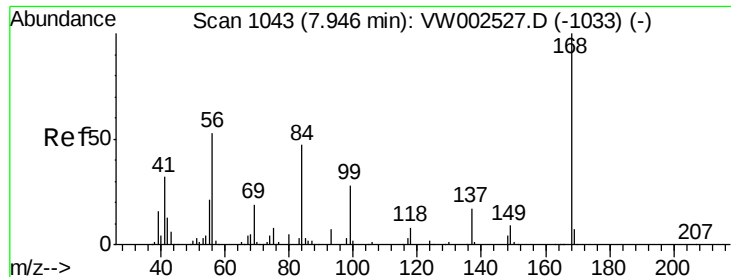
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

Quant Time: May 16 05:43:36 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 03:32:11 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 75985    | 21.01 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 43564    | 21.65 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 131454   | 19.99 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 68150    | 21.06 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

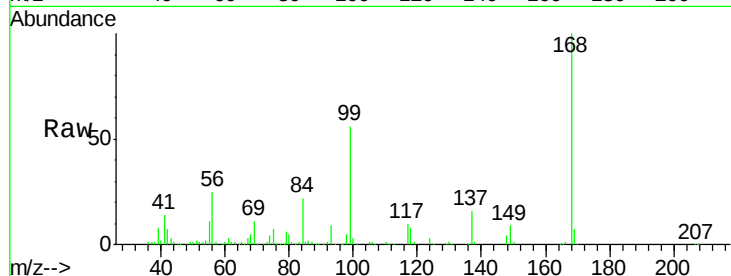
VW0515SBSD02

Tgt Ion:168 Resp: 233514

Ion Ratio Lower Upper

168 100

99 55.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

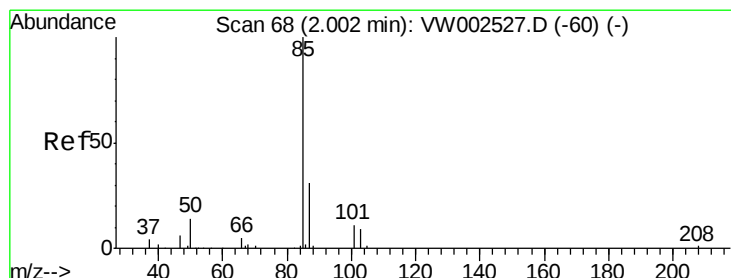
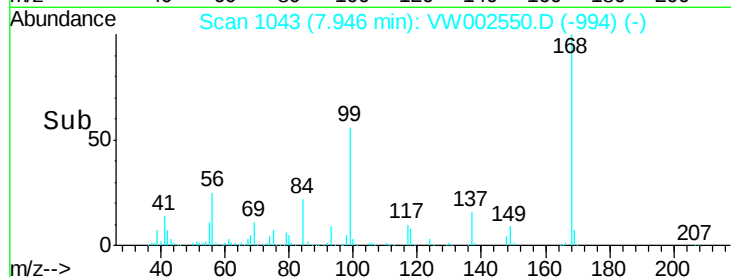
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 17.93 ug/l

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW002550.D

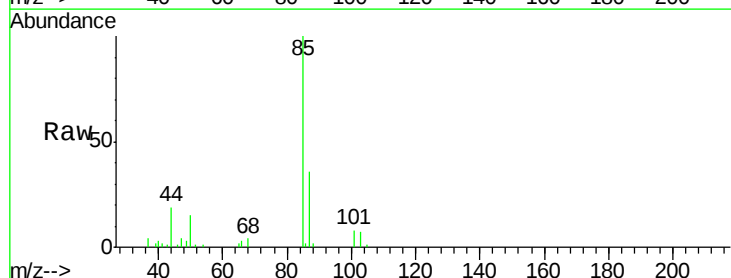
Acq: 15 May 2018 13:53

Tgt Ion: 85 Resp: 16157

Ion Ratio Lower Upper

85 100

87 36.1 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

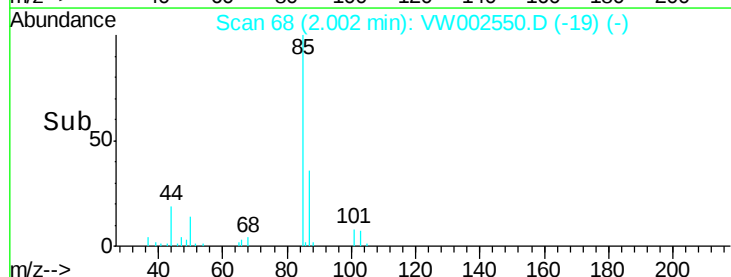
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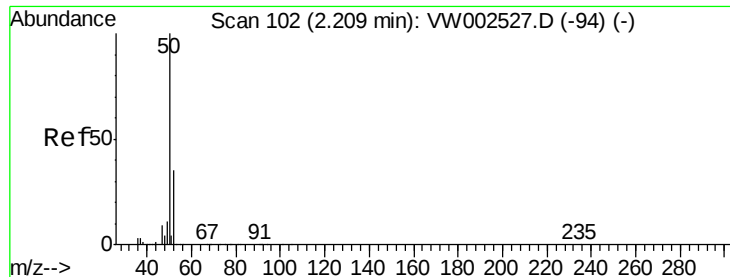
4000

2000

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 20.12 ug/l

RT: 2.21 min Scan# 102

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

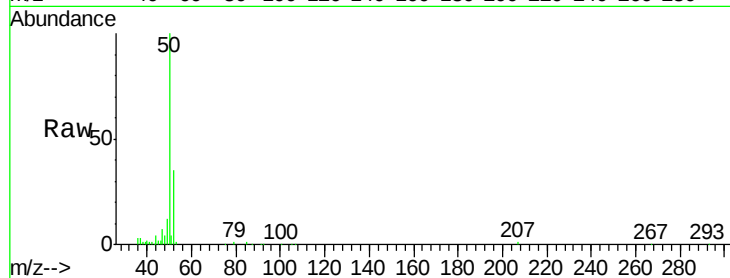
VW0515SBSD02

Tgt Ion: 50 Resp: 34677

Ion Ratio Lower Upper

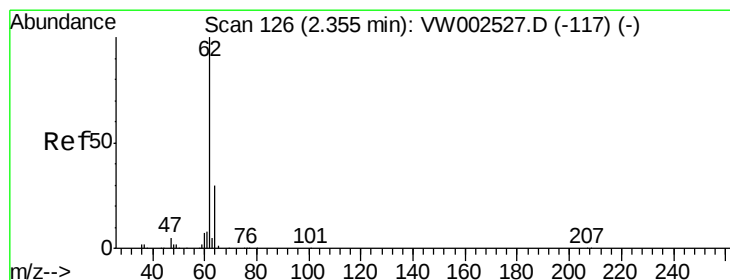
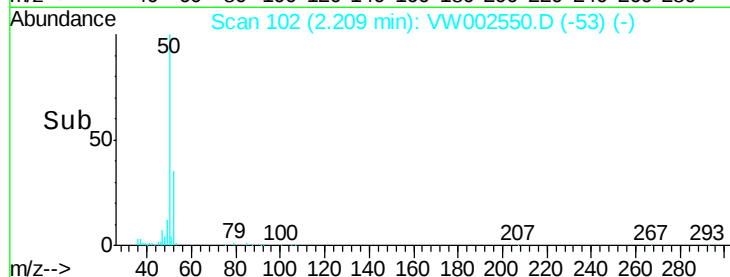
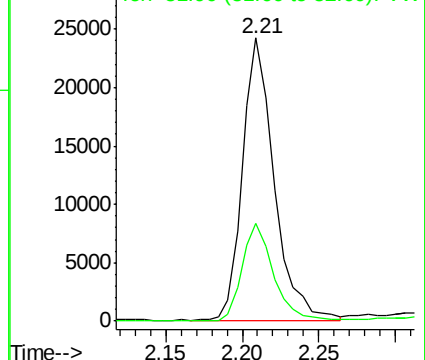
50 100

52 34.9 27.8 41.8



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 20.17 ug/l

RT: 2.36 min Scan# 126

Delta R.T. -0.00 min

Lab File: VW002550.D

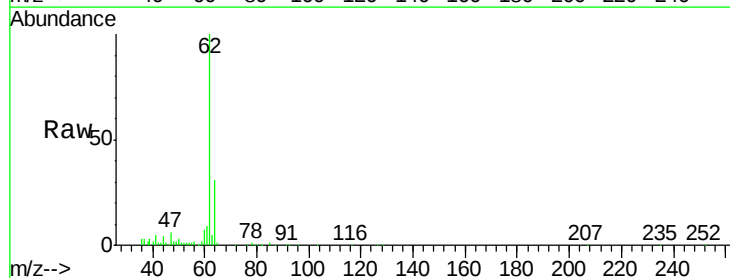
Acq: 15 May 2018 13:53

Tgt Ion: 62 Resp: 54517

Ion Ratio Lower Upper

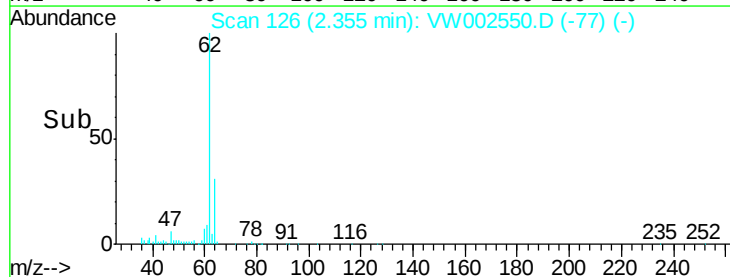
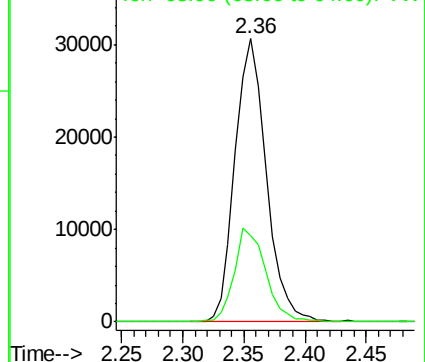
62 100

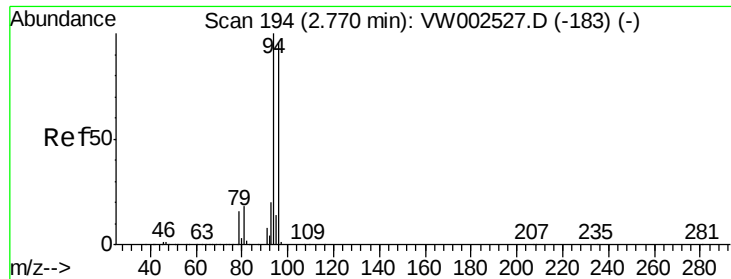
64 30.6 24.0 36.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 20.94 ug/l

RT: 2.76 min Scan# 193

Delta R.T. -0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

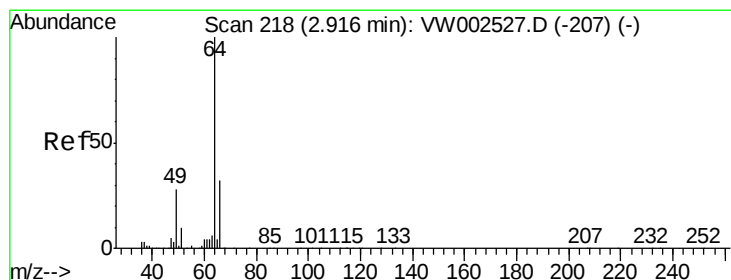
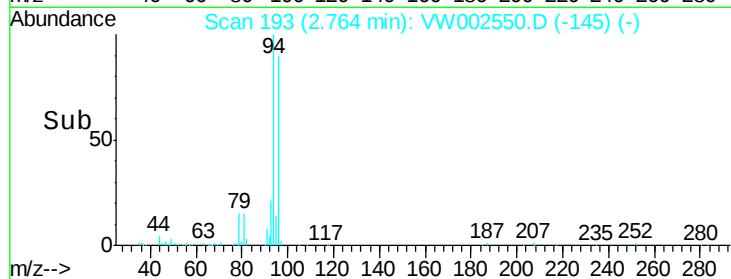
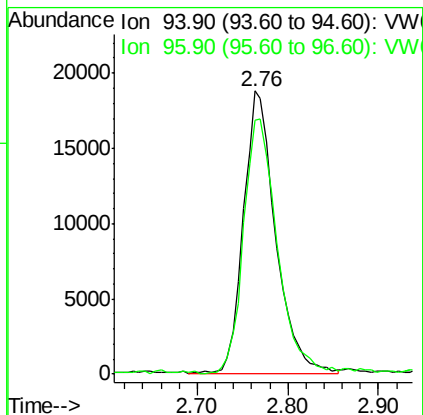
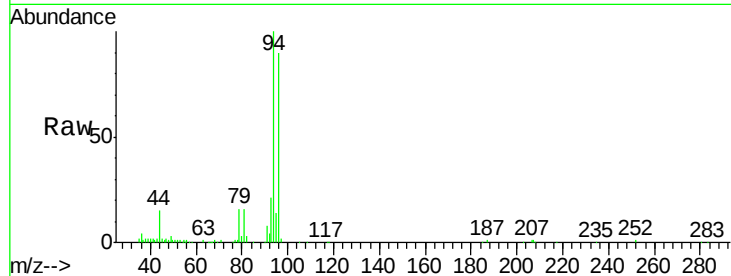
VW0515SBSD02

Tgt Ion: 94 Resp: 46403

Ion Ratio Lower Upper

94 100

96 89.1 77.0 115.4



#6

Chloroethane

Concen: 21.06 ug/l

RT: 2.92 min Scan# 218

Delta R.T. -0.00 min

Lab File: VW002550.D

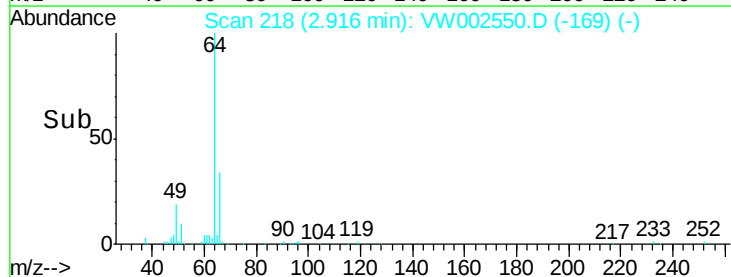
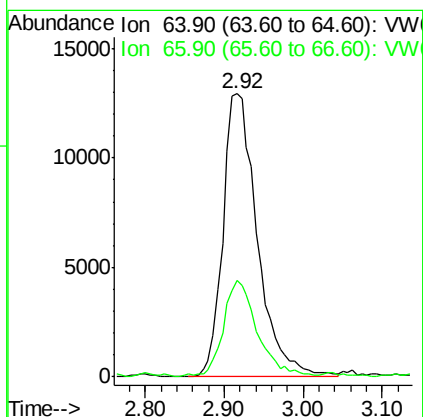
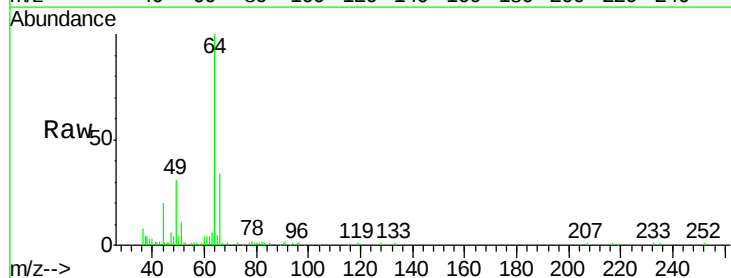
Acq: 15 May 2018 13:53

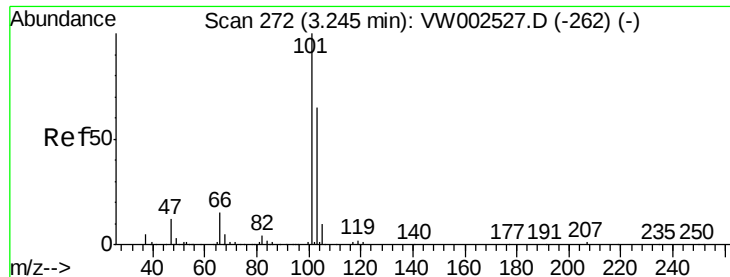
Tgt Ion: 64 Resp: 39167

Ion Ratio Lower Upper

64 100

66 33.4 25.8 38.8



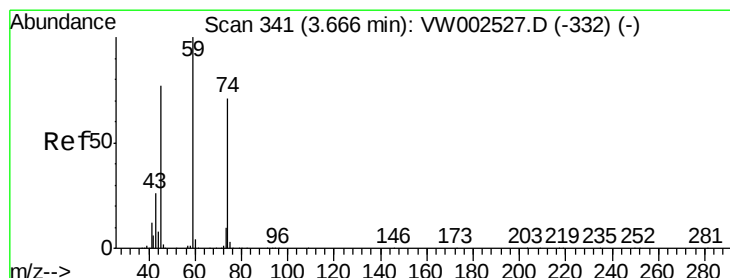
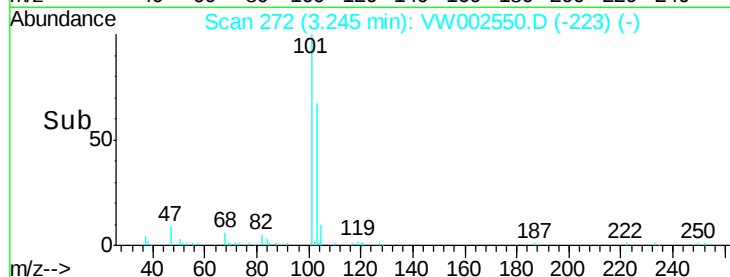
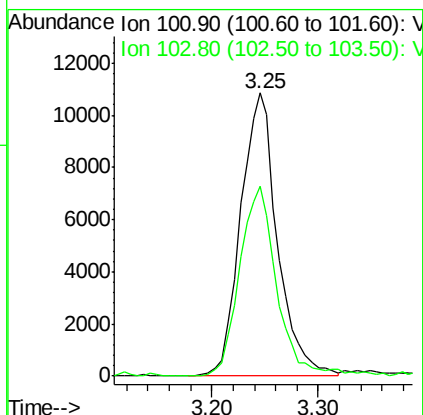
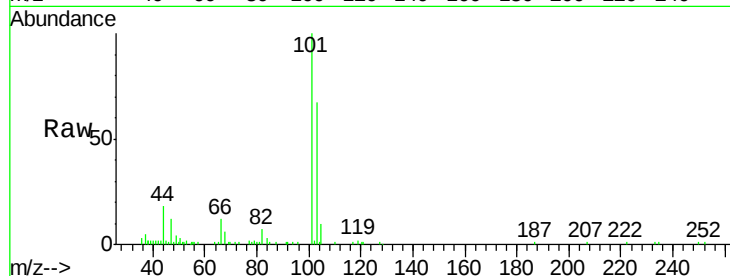


#7

Trichlorofluoromethane  
Concen: 22.05 ug/l  
RT: 3.25 min Scan# 272  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

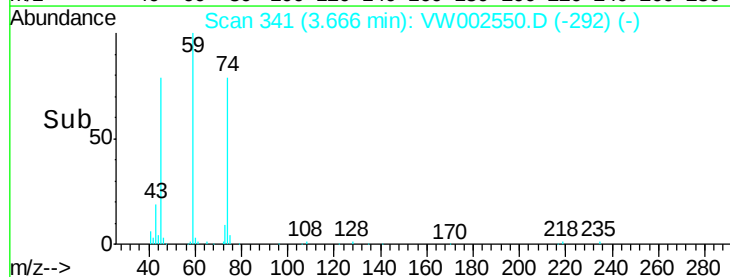
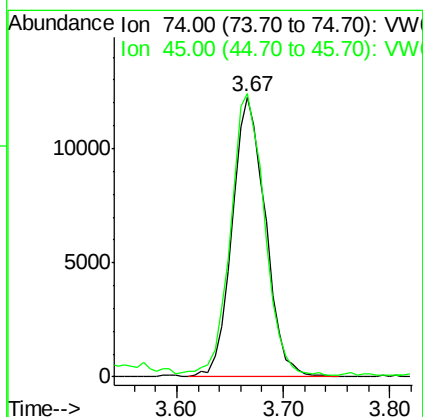
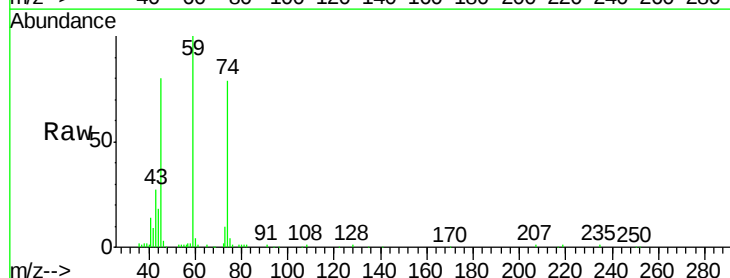
Tgt Ion:101 Resp: 26255  
Ion Ratio Lower Upper  
101 100  
103 67.3 51.8 77.8

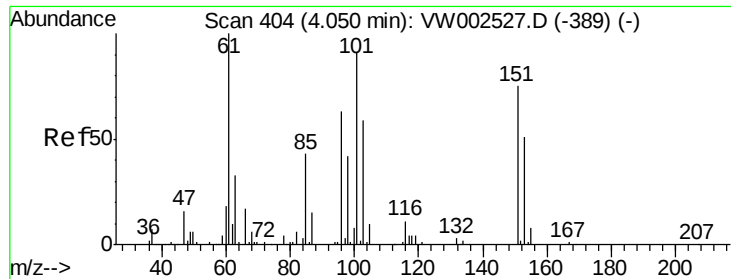


#8

Diethyl Ether  
Concen: 18.85 ug/l  
RT: 3.67 min Scan# 341  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 74 Resp: 26861  
Ion Ratio Lower Upper  
74 100  
45 102.7 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.39 ug/l

RT: 4.05 min Scan# 404

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBS02

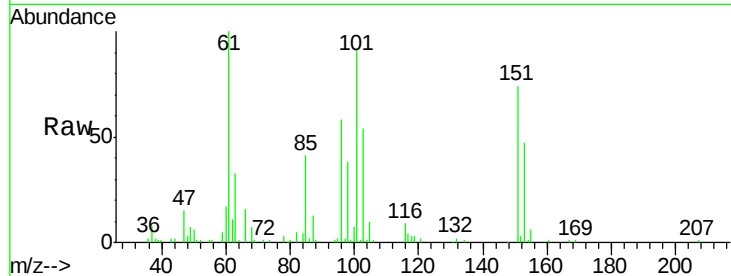
Tgt Ion:101 Resp: 42203

Ion Ratio Lower Upper

101 100

85 44.4 36.5 54.7

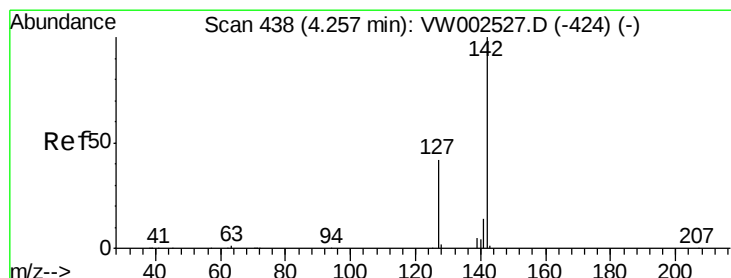
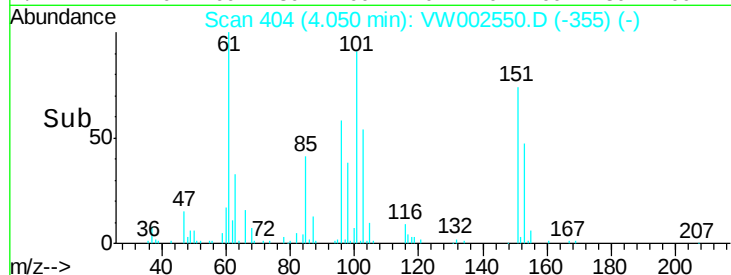
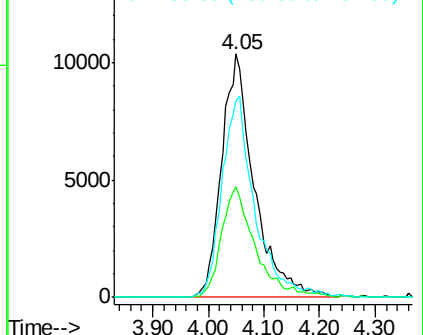
151 81.3 66.7 100.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.00 ug/l

RT: 4.26 min Scan# 438

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

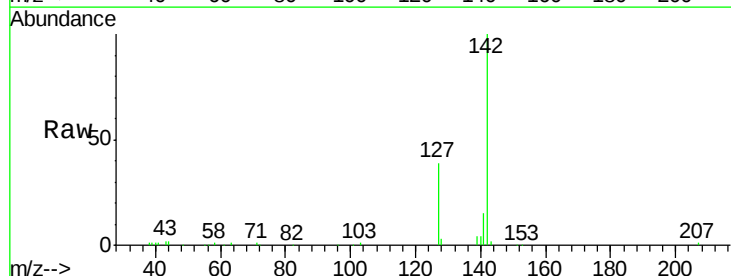
Tgt Ion:142 Resp: 62894

Ion Ratio Lower Upper

142 100

127 44.5 34.6 52.0

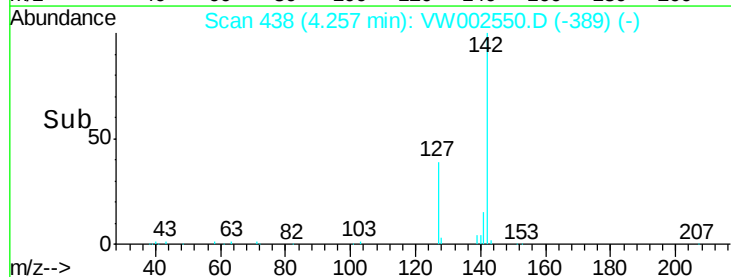
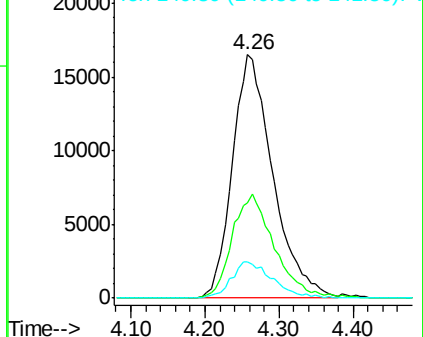
141 15.2 11.8 17.8

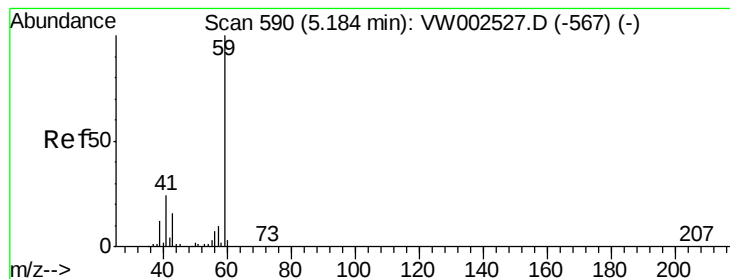


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 98.78 ug/l

RT: 5.19 min Scan# 591

Delta R.T. 0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

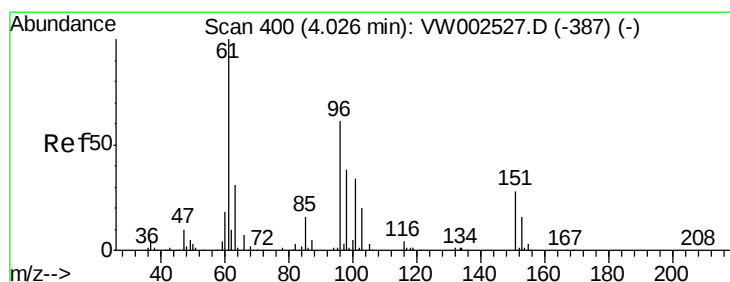
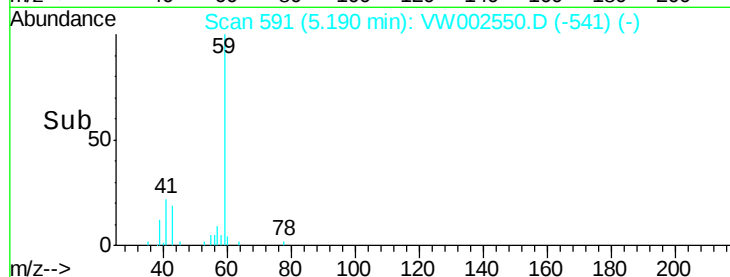
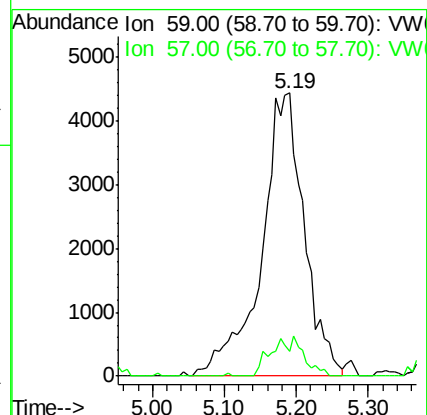
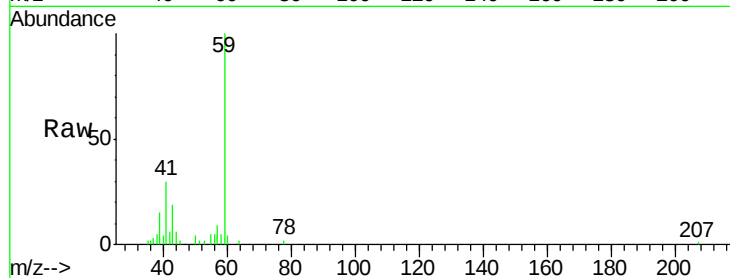
VW0515SBSD02

Tgt Ion: 59 Resp: 18322

Ion Ratio Lower Upper

59 100

57 6.1 8.2 12.4#



#12

1,1-Dichloroethene

Concen: 20.03 ug/l

RT: 4.03 min Scan# 400

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

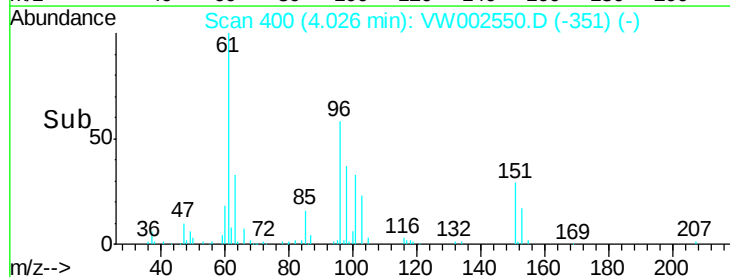
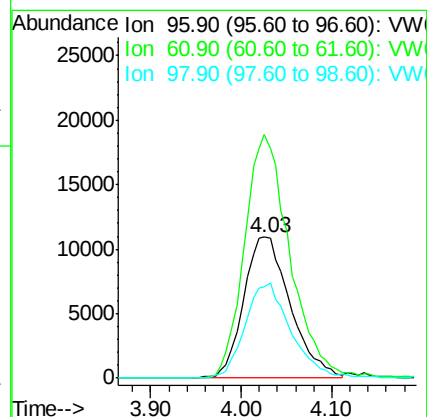
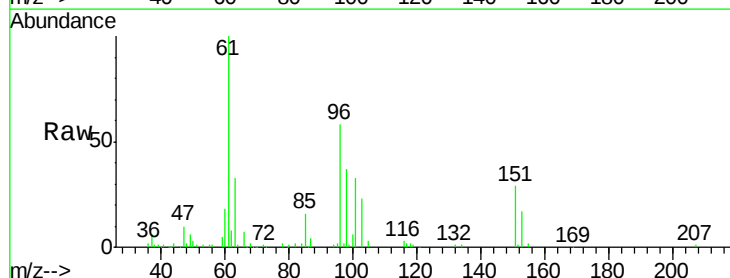
Tgt Ion: 96 Resp: 39122

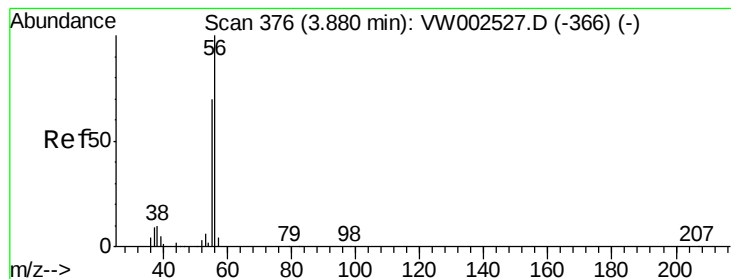
Ion Ratio Lower Upper

96 100

61 172.5 132.2 198.2

98 64.4 50.6 76.0





#13

Acrolein

Concen: 99.01 ug/l

RT: 3.88 min Scan# 376

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

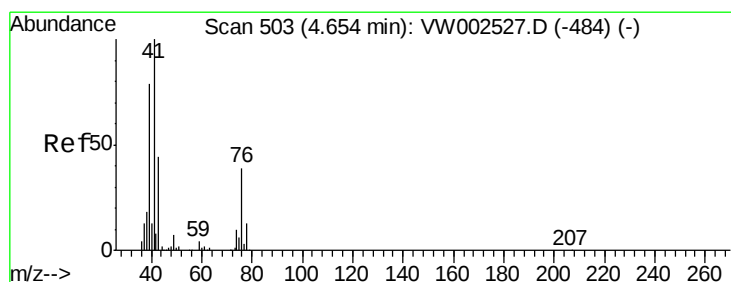
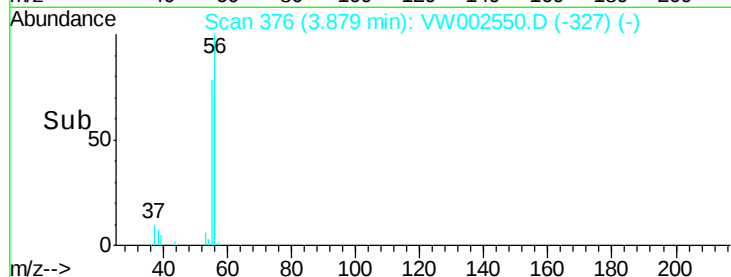
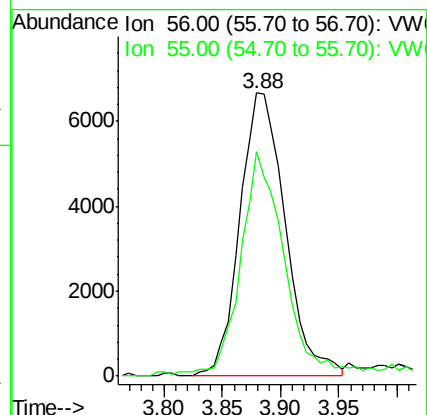
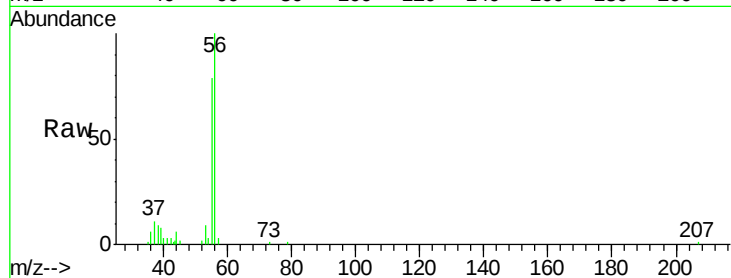
VW0515SBSD02

Tgt Ion: 56 Resp: 18093

Ion Ratio Lower Upper

56 100

55 73.8 57.0 85.4



#14

Allyl chloride

Concen: 20.16 ug/l

RT: 4.66 min Scan# 504

Delta R.T. 0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

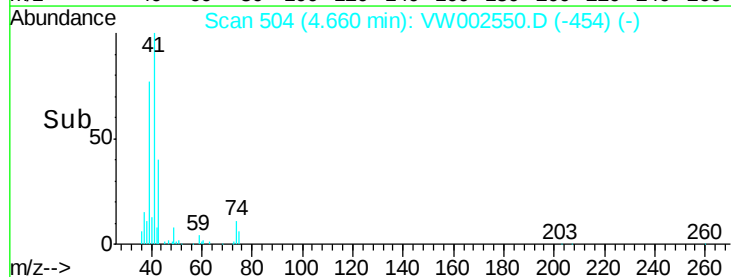
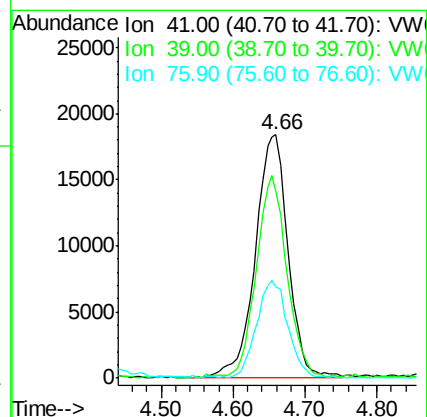
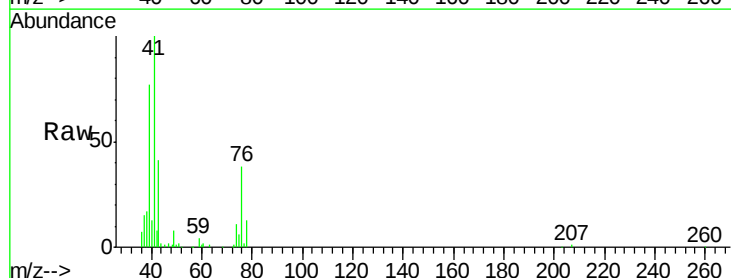
Tgt Ion: 41 Resp: 58442

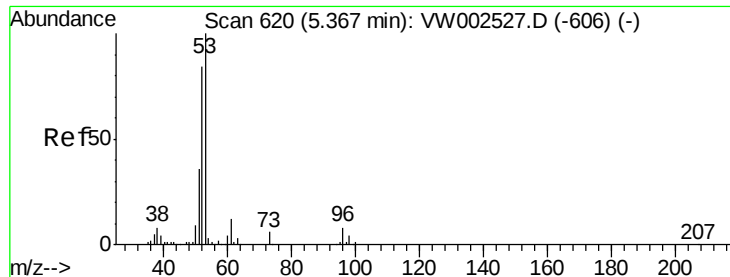
Ion Ratio Lower Upper

41 100

39 76.1 61.4 92.2

76 38.5 29.6 44.4





#15

Acrylonitrile

Concen: 94.62 ug/l

RT: 5.37 min Scan# 620

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

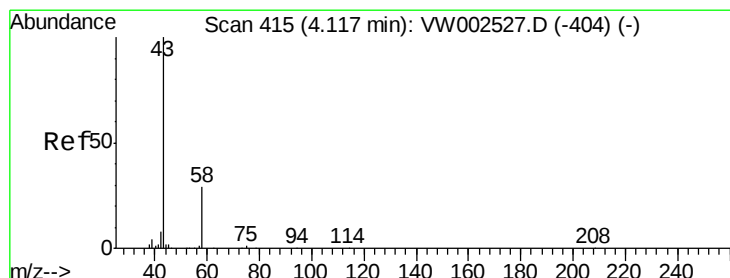
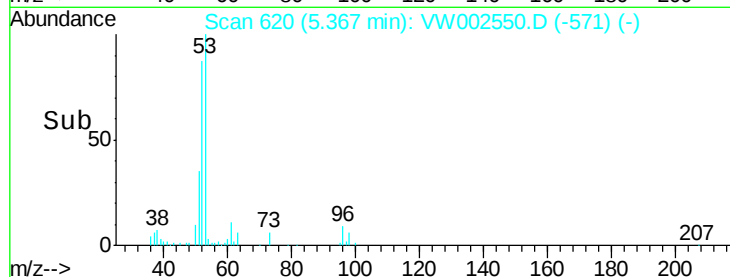
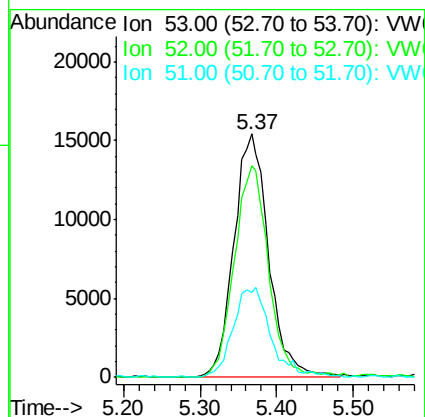
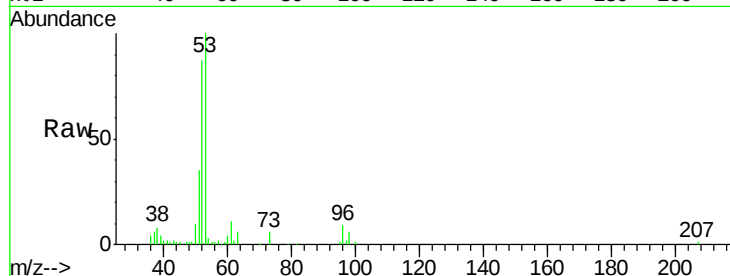
Tgt Ion: 53 Resp: 48630

Ion Ratio Lower Upper

53 100

52 85.1 66.6 100.0

51 40.1 30.6 46.0



#16

Acetone

Concen: 120.73 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.01 min

Lab File: VW002550.D

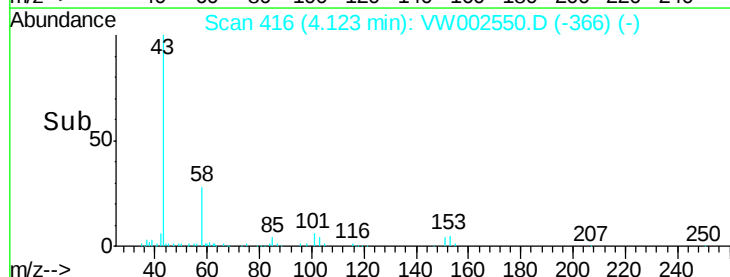
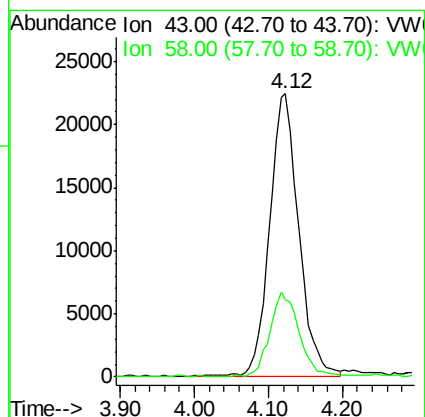
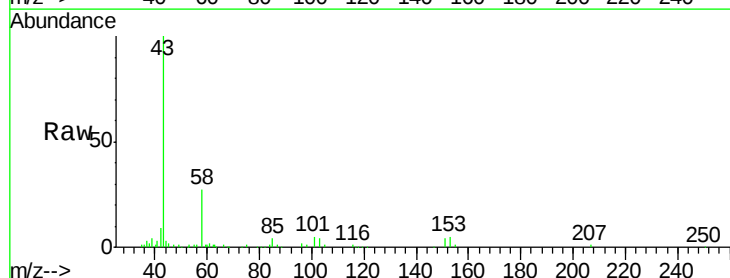
Acq: 15 May 2018 13:53

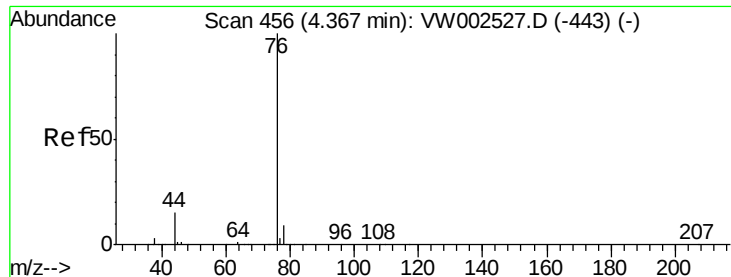
Tgt Ion: 43 Resp: 61502

Ion Ratio Lower Upper

43 100

58 27.0 23.4 35.0





#17

Carbon Disulfide

Concen: 20.53 ug/l

RT: 4.37 min Scan# 456

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

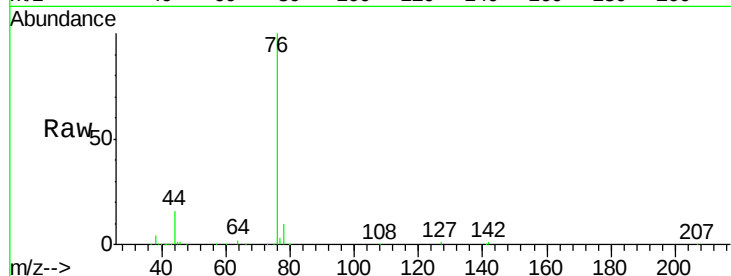
VW0515SBSD02

Tgt Ion: 76 Resp: 110323

Ion Ratio Lower Upper

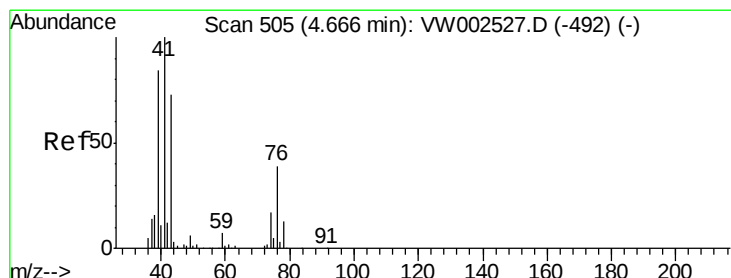
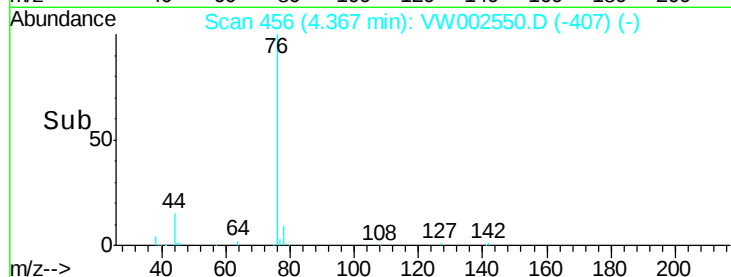
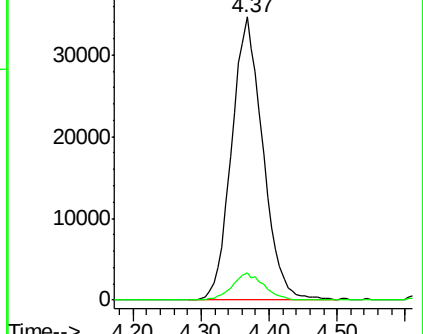
76 100

78 9.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 16.76 ug/l

RT: 4.67 min Scan# 506

Delta R.T. 0.01 min

Lab File: VW002550.D

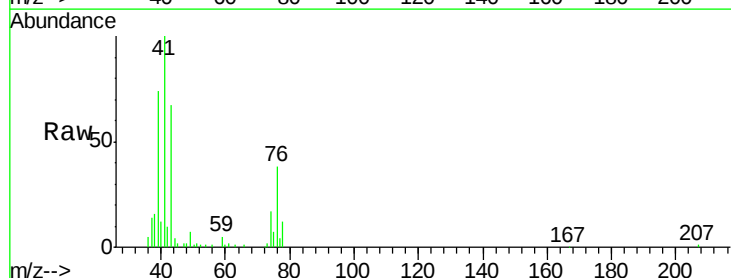
Acq: 15 May 2018 13:53

Tgt Ion: 43 Resp: 24884

Ion Ratio Lower Upper

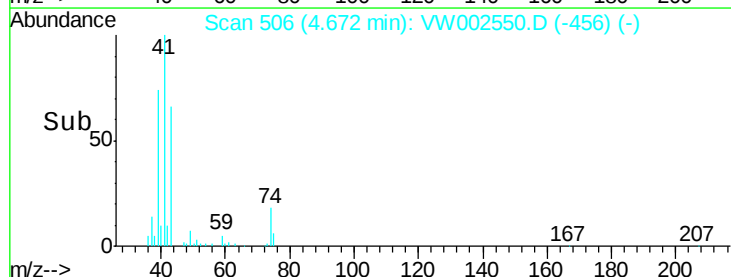
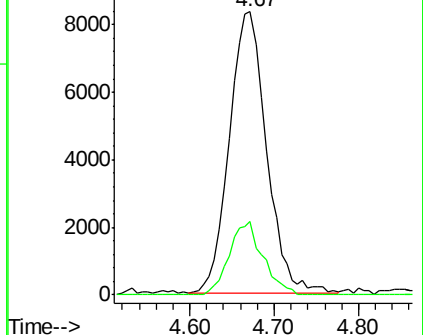
43 100

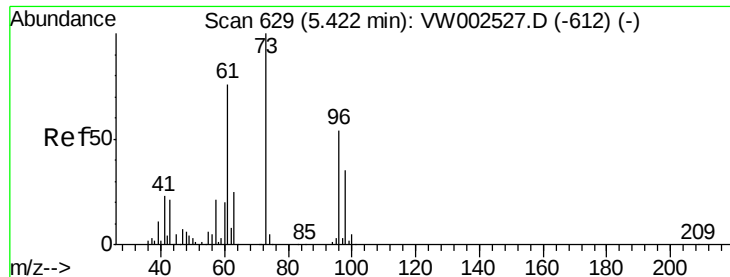
74 23.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

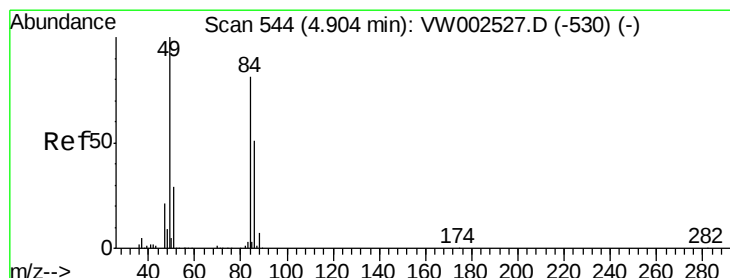
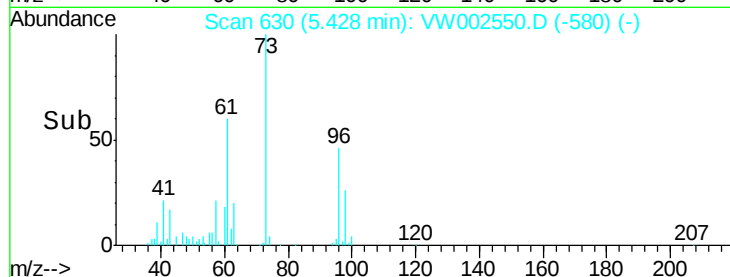
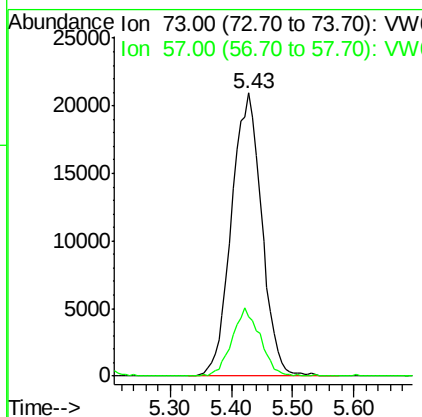
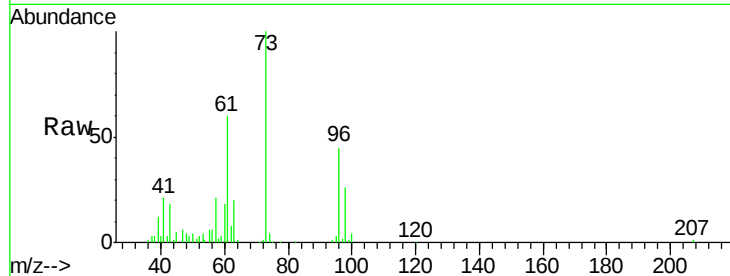




#19  
Methyl tert-butyl Ether  
Concen: 19.93 ug/l  
RT: 5.43 min Scan# 630  
Delta R.T. 0.01 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

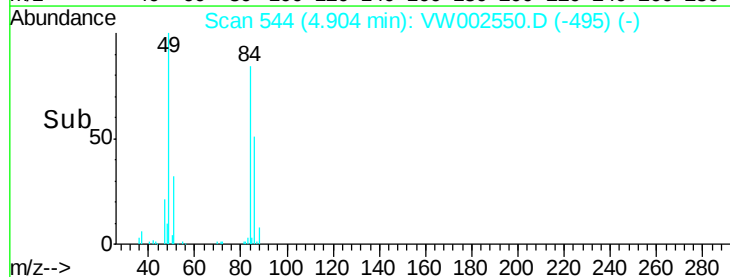
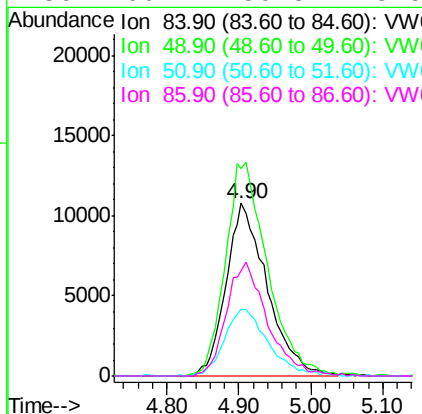
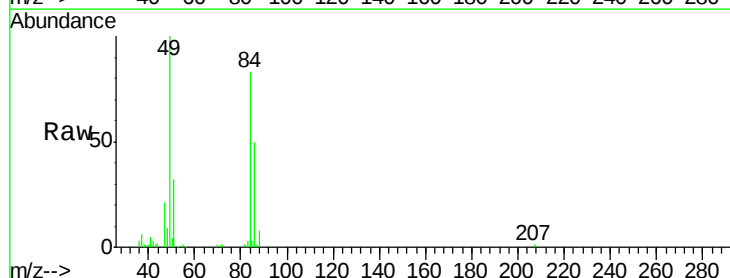
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

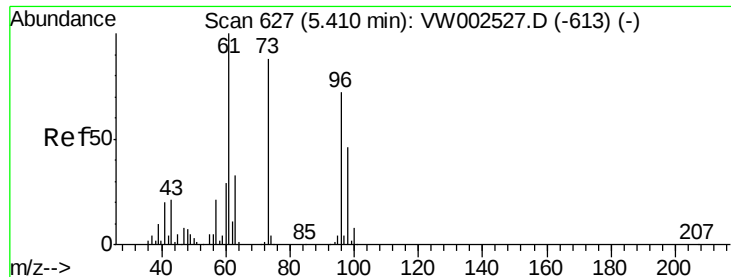
Tgt Ion: 73 Resp: 71509  
Ion Ratio Lower Upper  
73 100  
57 21.0 17.0 25.6



#20  
Methylene Chloride  
Concen: 19.40 ug/l  
RT: 4.90 min Scan# 544  
Delta R.T. 0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 84 Resp: 42736  
Ion Ratio Lower Upper  
84 100  
49 119.7 99.4 149.0  
51 38.6 29.0 43.6  
86 60.7 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 20.32 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampled :

VW0515SBSD02

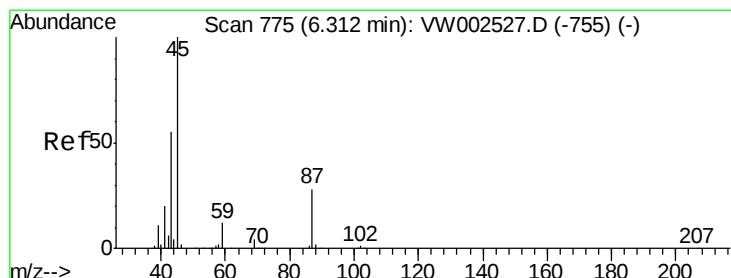
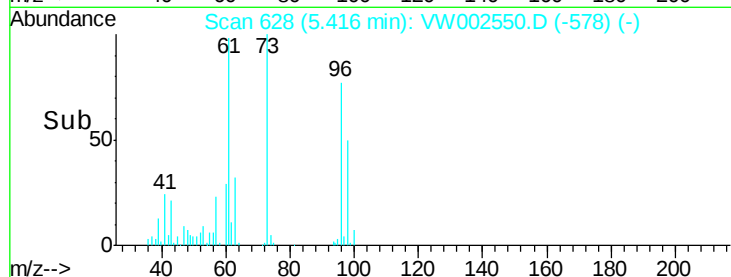
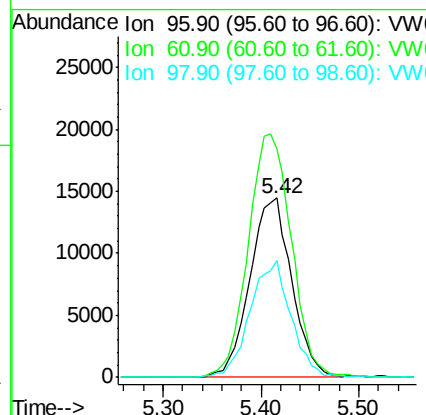
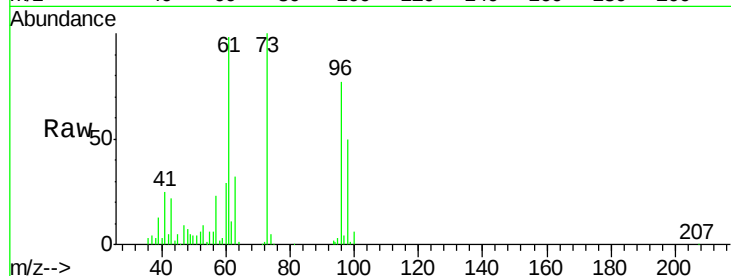
Tgt Ion: 96 Resp: 42904

Ion Ratio Lower Upper

96 100

61 127.4 111.6 167.4

98 65.1 51.7 77.5



#22

Diisopropyl ether

Concen: 19.74 ug/l

RT: 6.31 min Scan# 775

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Tgt Ion: 45 Resp: 126756

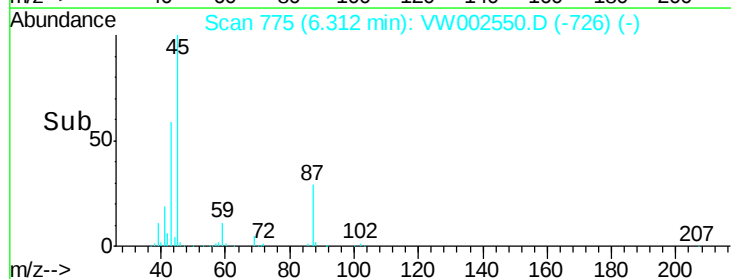
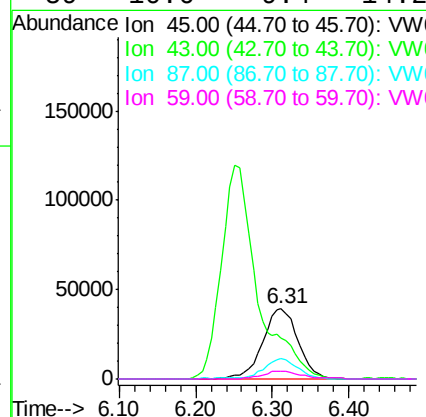
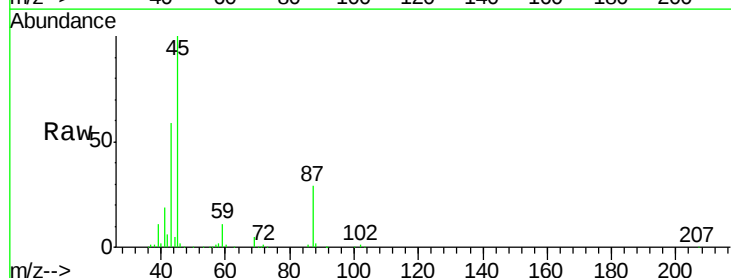
Ion Ratio Lower Upper

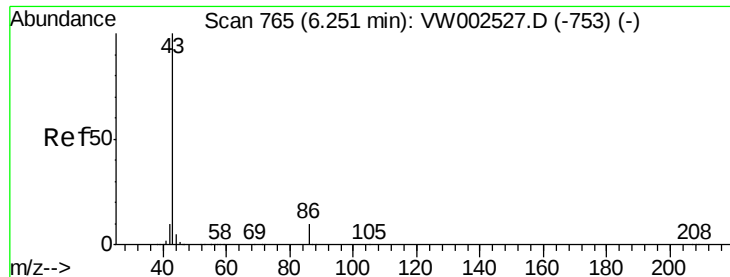
45 100

43 58.2 44.4 66.6

87 29.2 23.0 34.4

59 10.6 9.4 14.2





#23

Vinyl Acetate

Concen: 101.09 ug/l

RT: 6.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

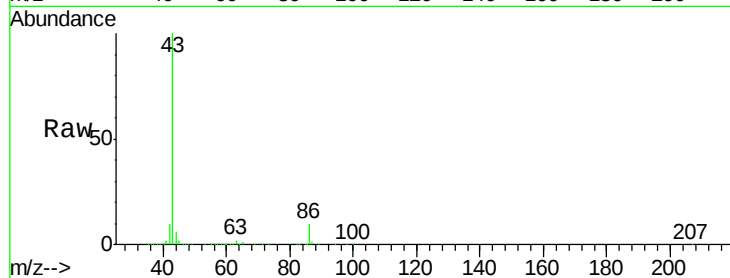
VW0515SBSD02

Tgt Ion: 43 Resp: 393333

Ion Ratio Lower Upper

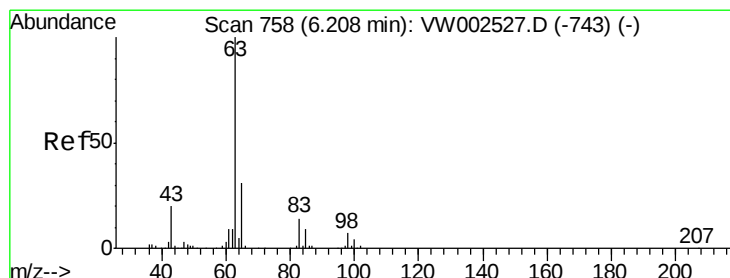
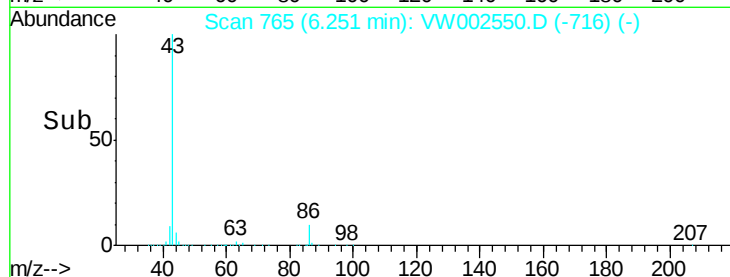
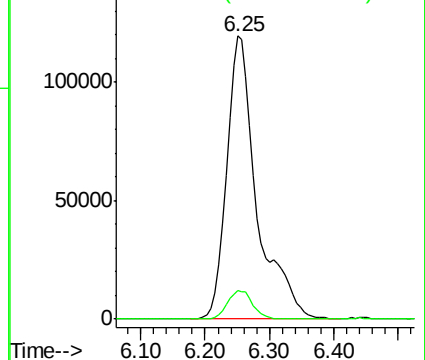
43 100

86 10.2 7.9 11.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 19.93 ug/l

RT: 6.20 min Scan# 757

Delta R.T. -0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

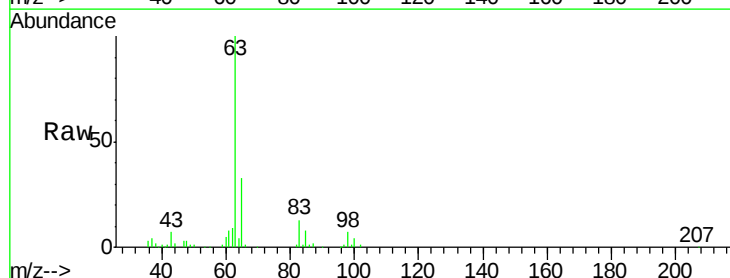
Tgt Ion: 63 Resp: 77124

Ion Ratio Lower Upper

63 100

98 6.7 3.6 10.9

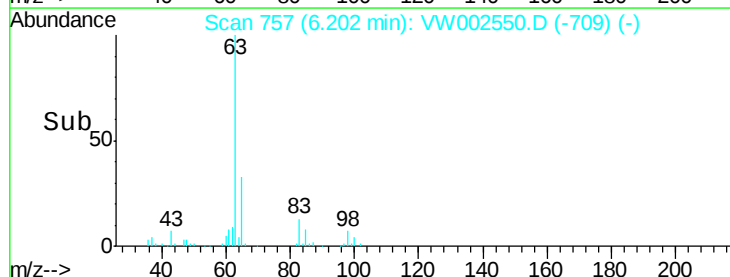
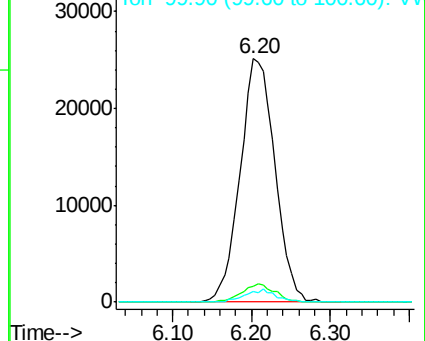
100 4.5 2.1 6.5

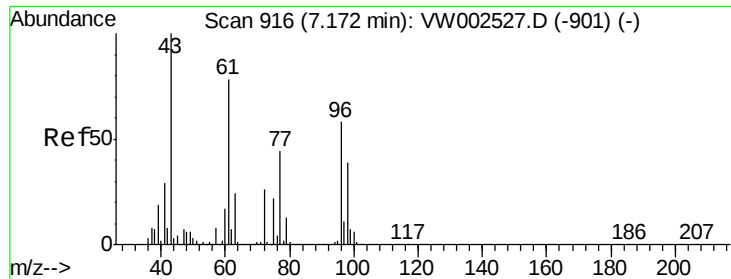


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 101.58 ug/l

RT: 7.17 min Scan# 916

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

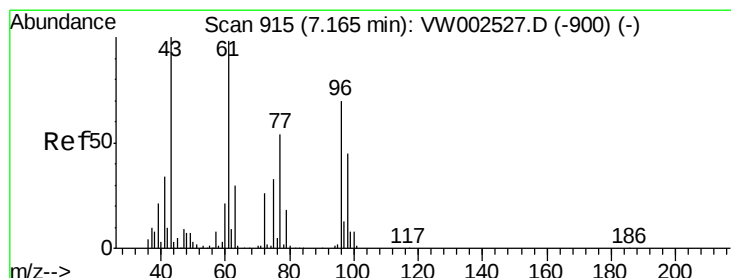
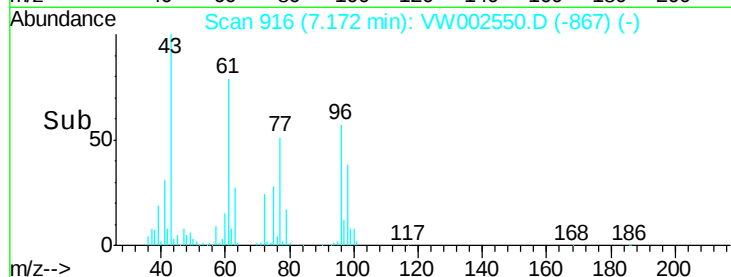
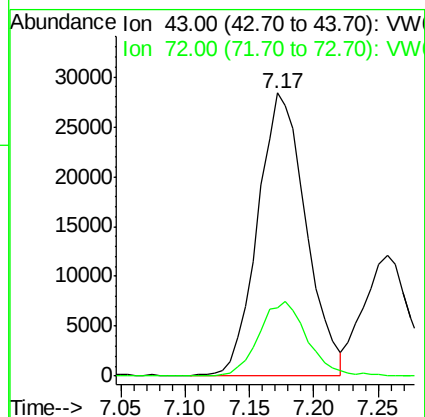
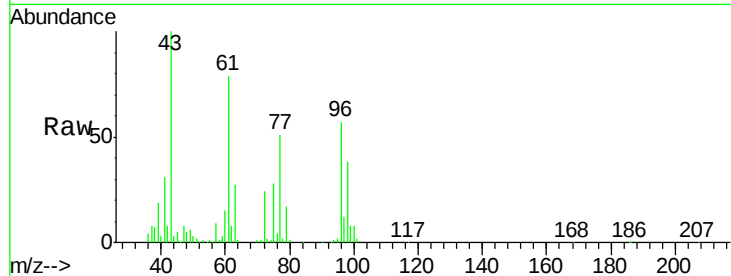
VW0515SBSD02

Tgt Ion: 43 Resp: 73176

Ion Ratio Lower Upper

43 100

72 24.3 20.9 31.3



#26

2,2-Dichloropropane

Concen: 21.36 ug/l

RT: 7.16 min Scan# 914

Delta R.T. -0.01 min

Lab File: VW002550.D

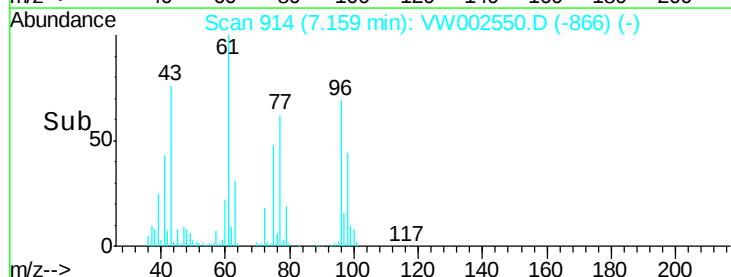
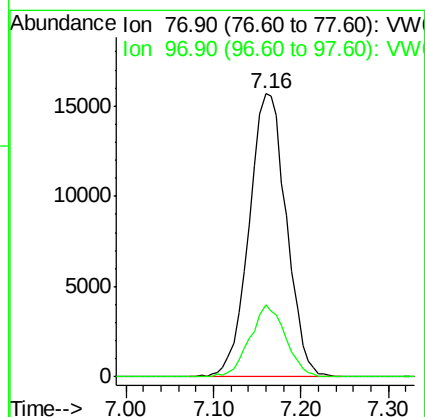
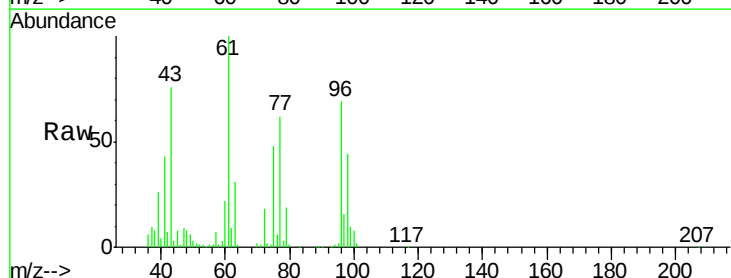
Acq: 15 May 2018 13:53

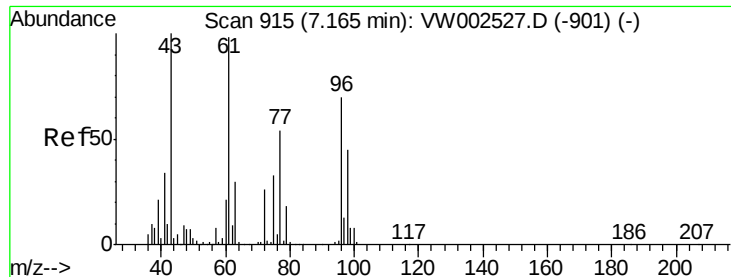
Tgt Ion: 77 Resp: 46311

Ion Ratio Lower Upper

77 100

97 24.3 12.1 36.3





#27

cis-1,2-Dichloroethene

Concen: 19.74 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

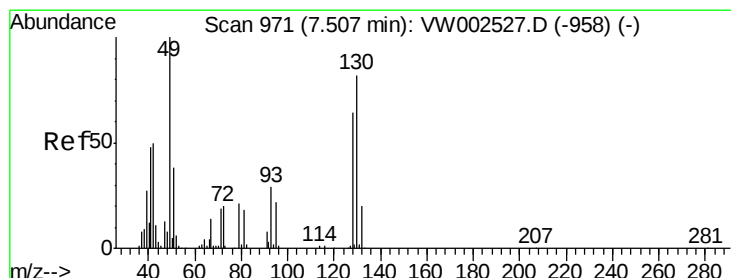
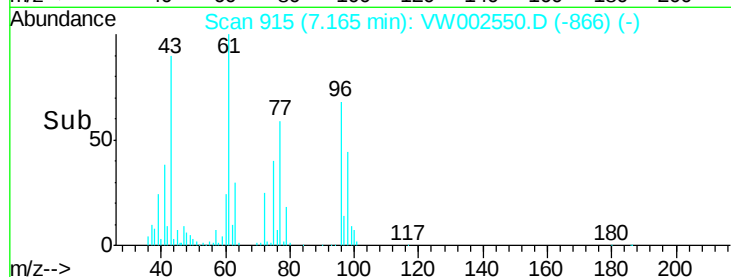
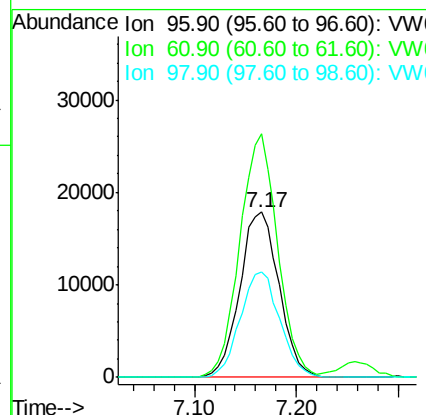
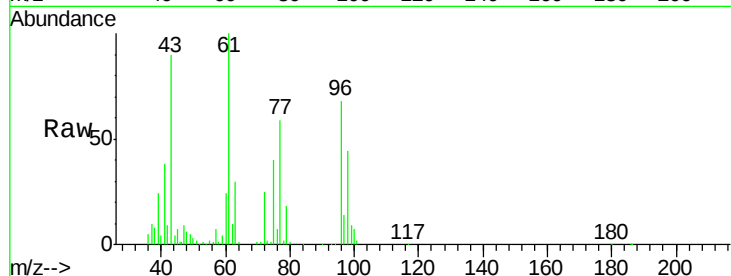
Tgt Ion: 96 Resp: 47553

Ion Ratio Lower Upper

96 100

61 142.4 0.0 281.6

98 64.6 0.0 130.8



#28

Bromochloromethane

Concen: 19.63 ug/l

RT: 7.51 min Scan# 971

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

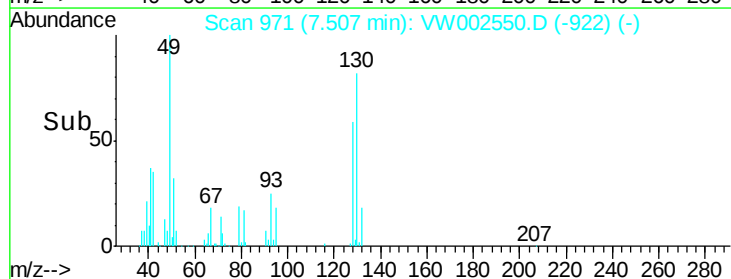
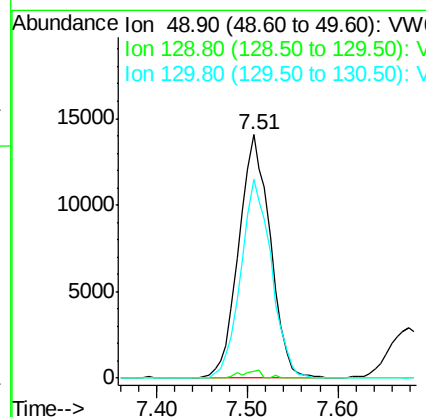
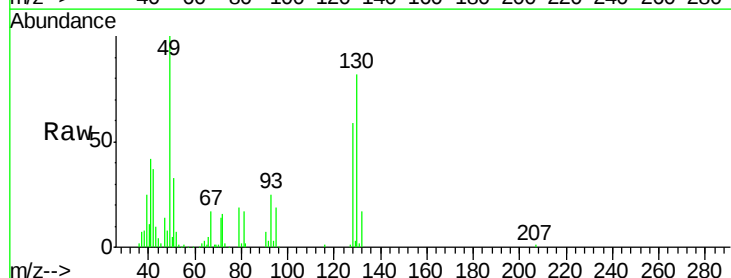
Tgt Ion: 49 Resp: 33913

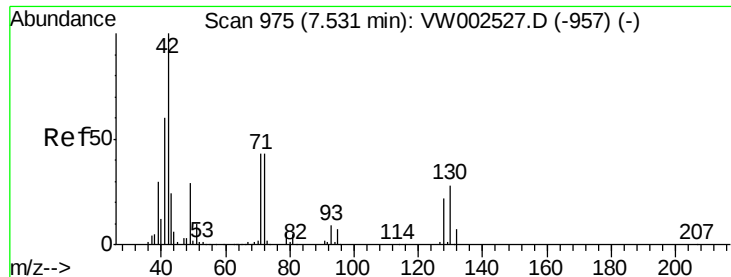
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.4

130 79.4 64.7 97.1

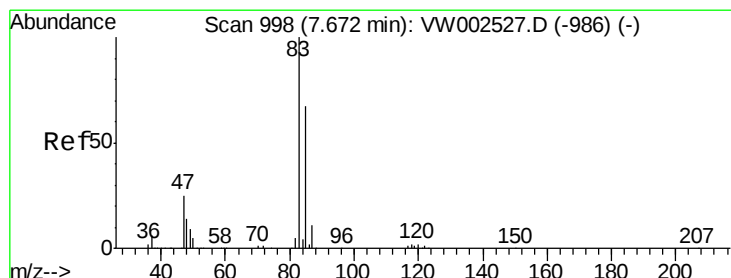
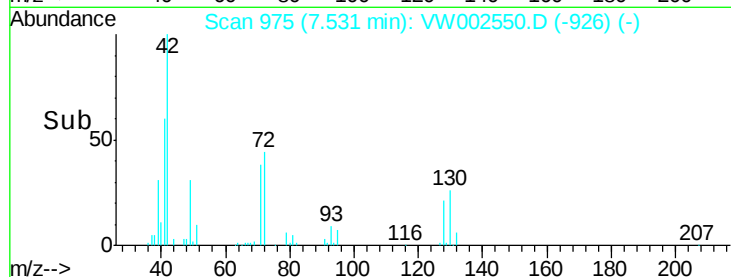
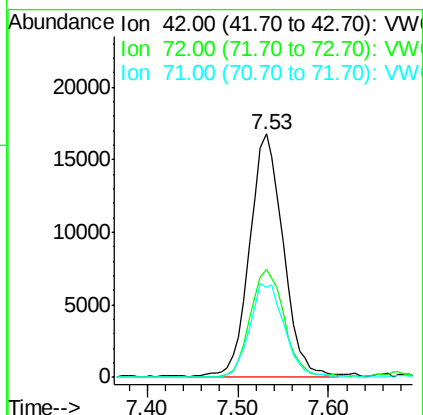
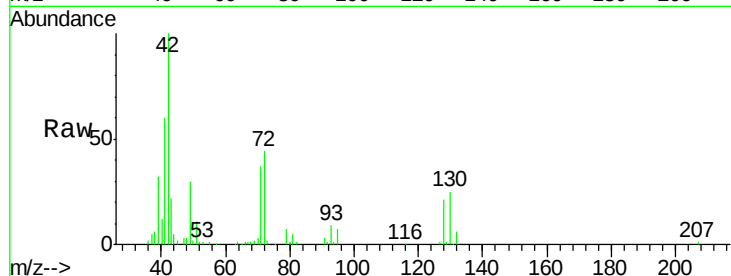




#29  
Tetrahydrofuran  
Concen: 96.41 ug/l  
RT: 7.53 min Scan# 975  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

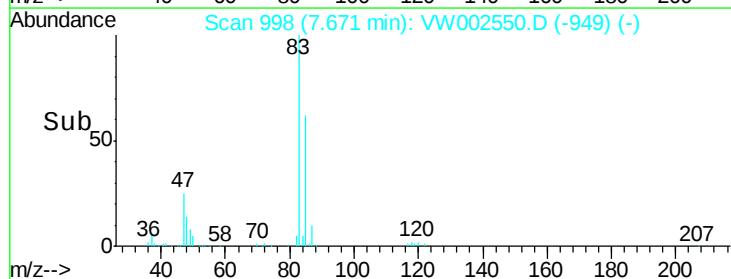
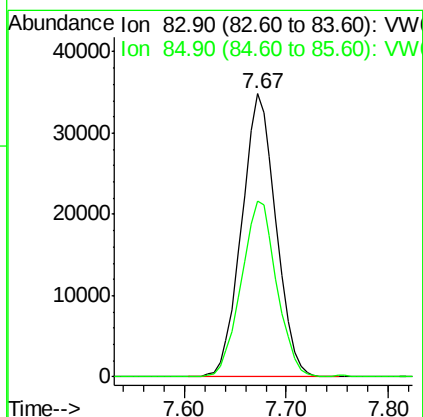
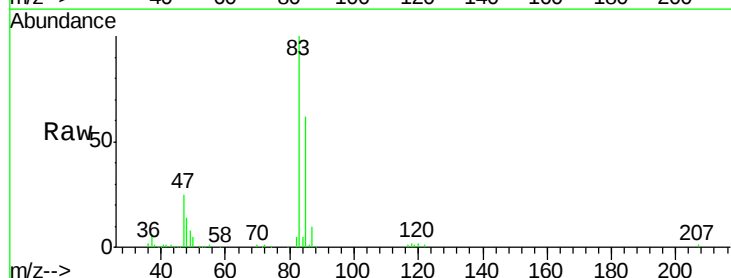
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

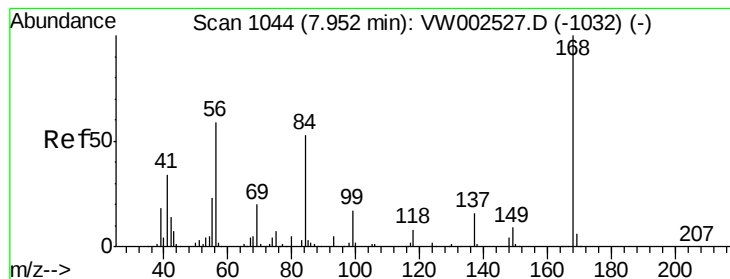
Tgt Ion: 42 Resp: 43388  
Ion Ratio Lower Upper  
42 100  
72 44.3 35.0 52.4  
71 39.3 33.0 49.6



#30  
Chloroform  
Concen: 19.68 ug/l  
RT: 7.67 min Scan# 998  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 83 Resp: 81315  
Ion Ratio Lower Upper  
83 100  
85 62.0 53.9 80.9





#31

Cyclohexane

Concen: 20.45 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleID :

VW0515SBS02

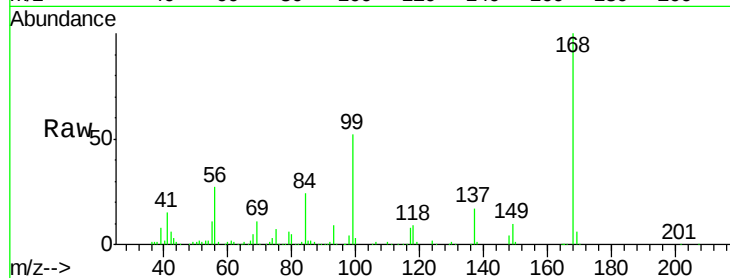
Tgt Ion: 56 Resp: 70105

Ion Ratio Lower Upper

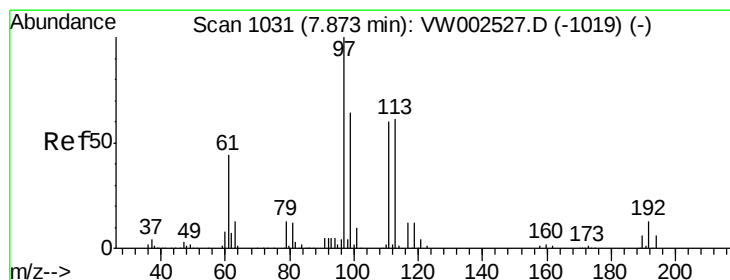
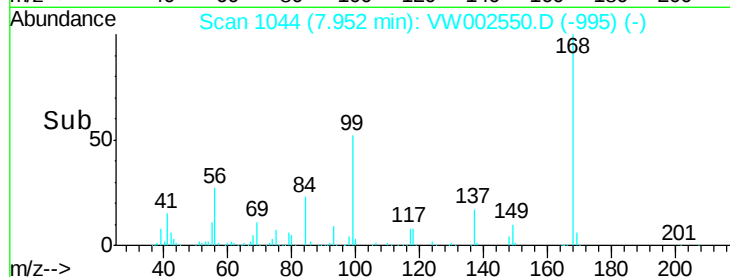
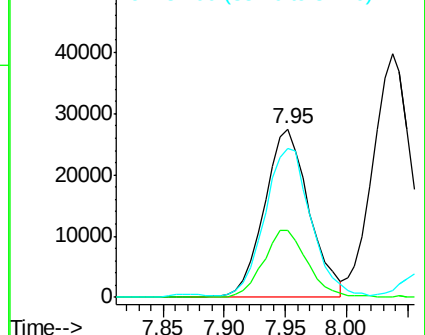
56 100

69 40.0 27.0 40.4

84 86.4 72.2 108.2



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



#32

1,1,1-Trichloroethane

Concen: 20.79 ug/l

RT: 7.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

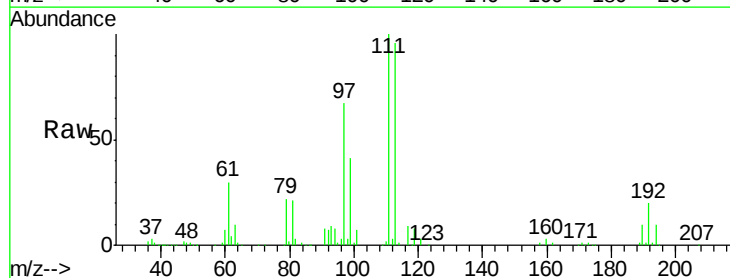
Tgt Ion: 97 Resp: 64801

Ion Ratio Lower Upper

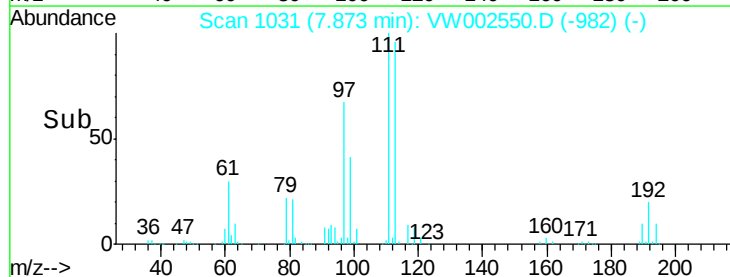
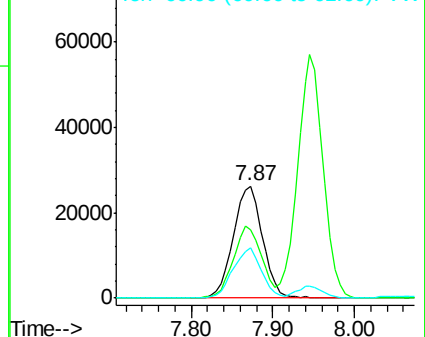
97 100

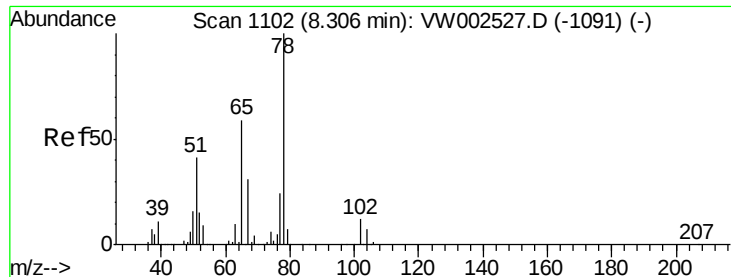
99 62.1 51.1 76.7

61 43.2 35.9 53.9



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





#33

1,2-Dichloroethane-d4

Concen: 50.27 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

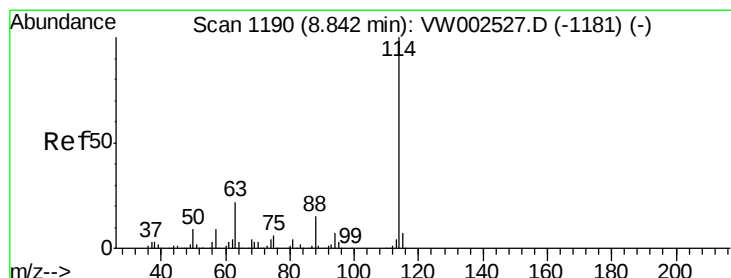
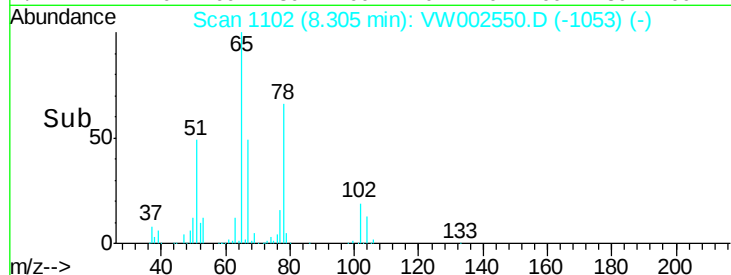
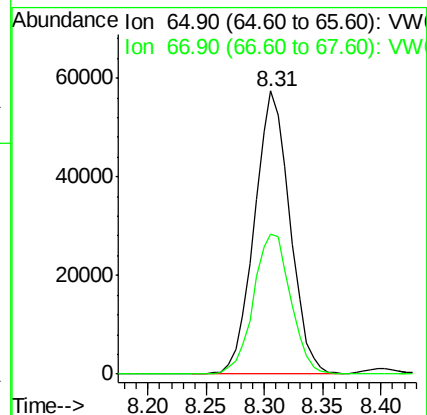
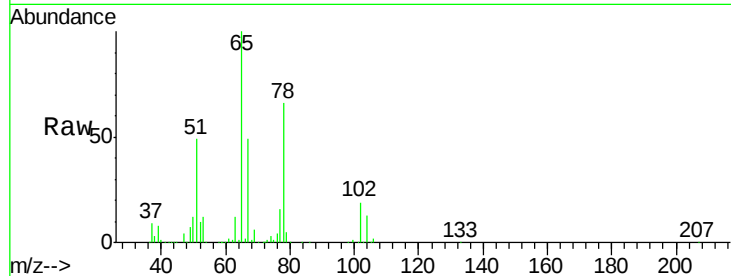
VW0515SBS02

Tgt Ion: 65 Resp: 121297

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.84 min Scan# 1190

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

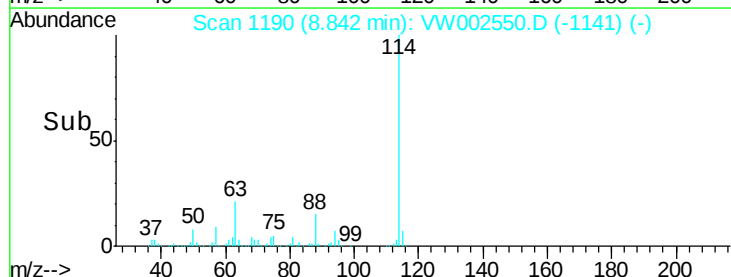
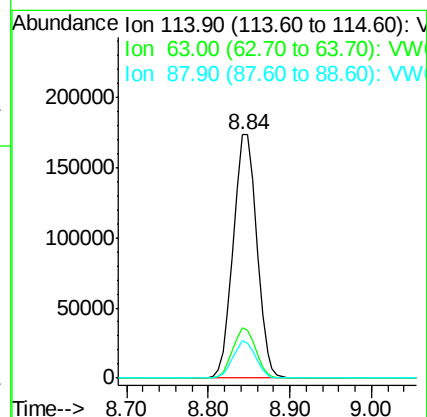
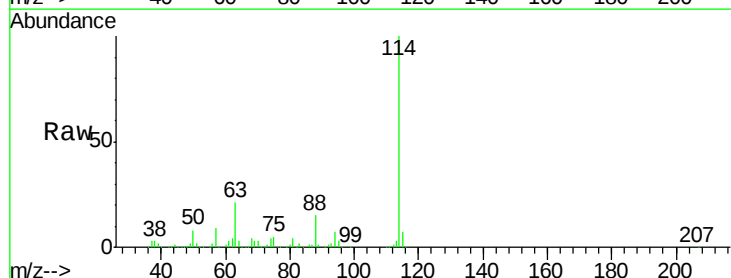
Tgt Ion: 114 Resp: 345568

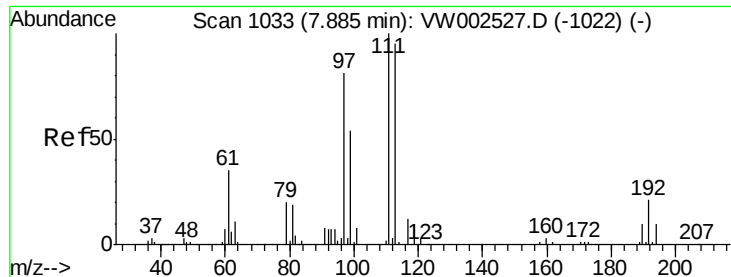
Ion Ratio Lower Upper

114 100

63 20.6 0.0 43.2

88 15.2 0.0 29.2

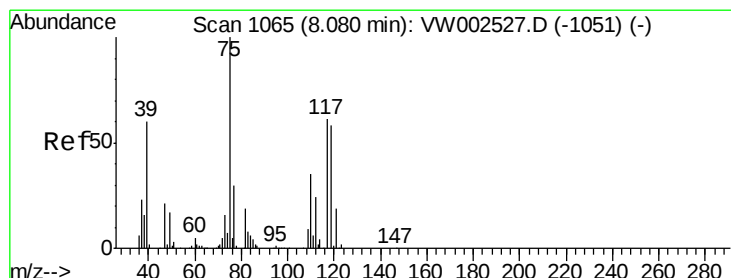
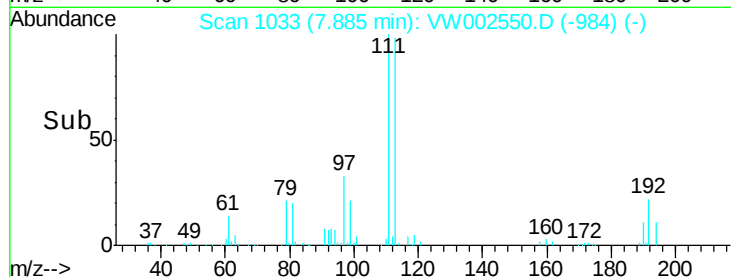
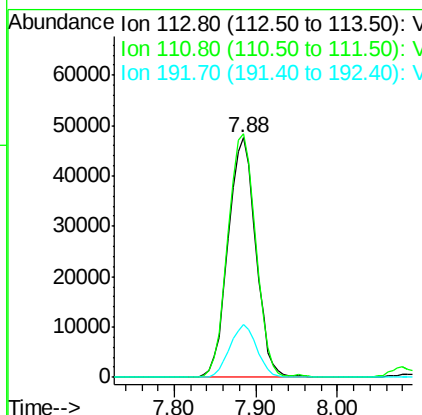
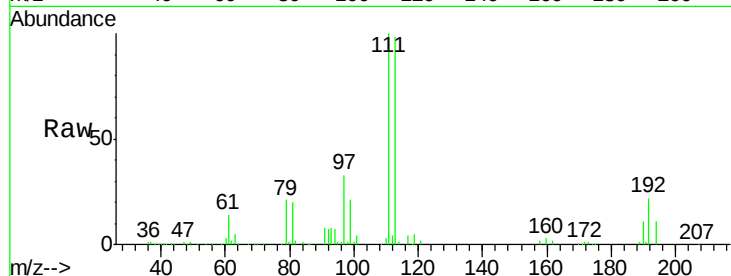




#35  
 Dibromofluoromethane  
 Concen: 50.59 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

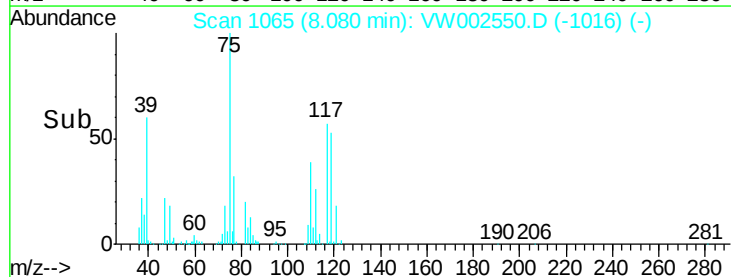
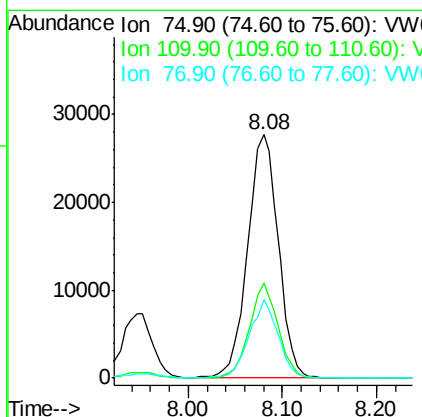
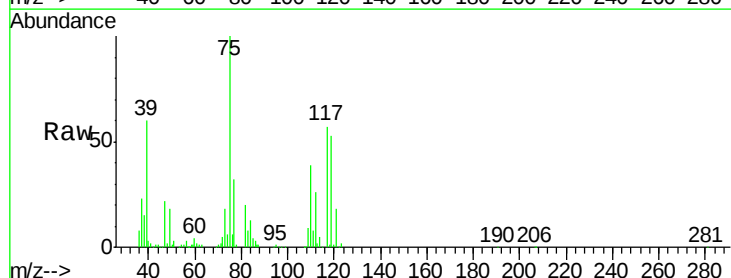
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBS02

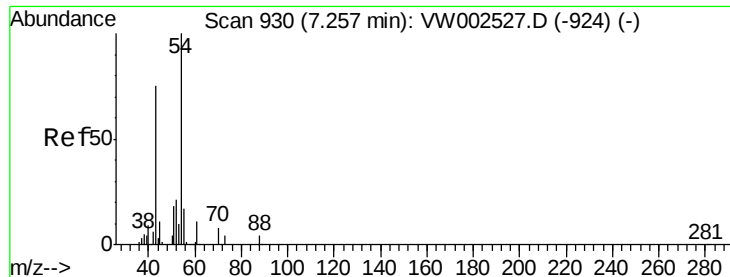
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 81.8  | 122.8 |
| 192     | 21.7  | 17.5  | 26.3  |



#36  
 1,1-Dichloropropene  
 Concen: 20.79 ug/l  
 RT: 8.08 min Scan# 1065  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 36.2  | 17.8  | 53.5  |
| 77      | 30.5  | 24.5  | 36.7  |

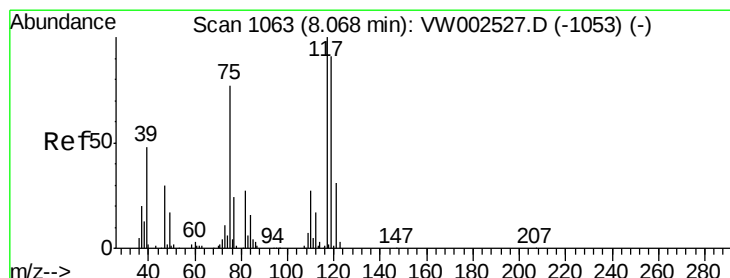
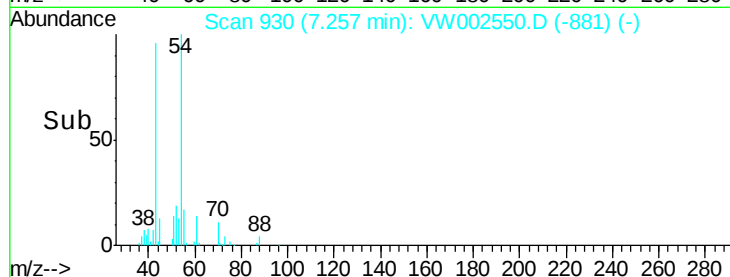
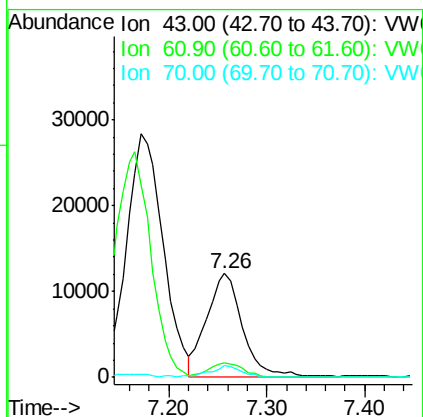
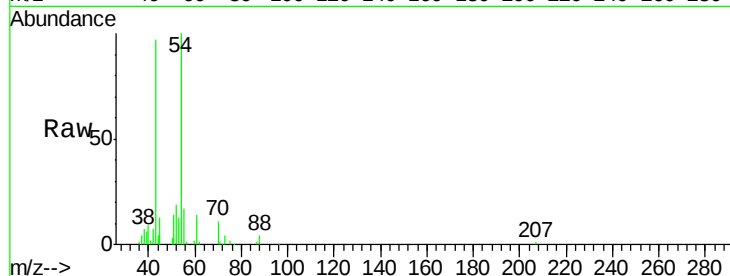




#37  
 Ethyl Acetate  
 Concen: 20.03 ug/l  
 RT: 7.26 min Scan# 930  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

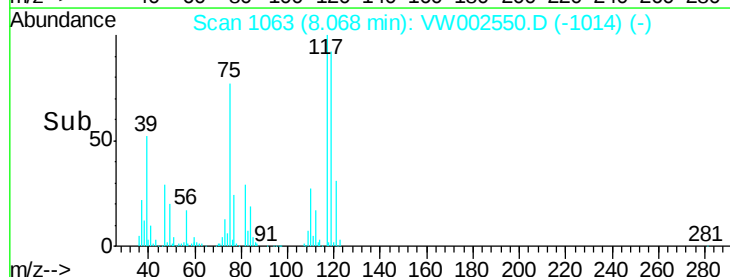
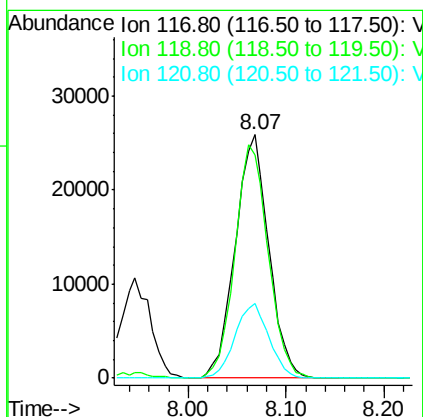
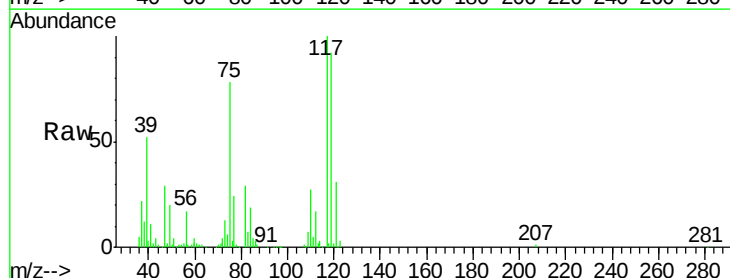
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

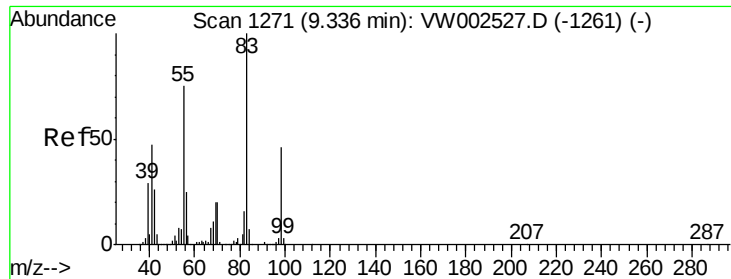
Tgt Ion: 43 Resp: 30294  
 Ion Ratio Lower Upper  
 43 100  
 61 13.8 11.1 16.7  
 70 9.8 7.8 11.8



#38  
 Carbon Tetrachloride  
 Concen: 20.61 ug/l  
 RT: 8.07 min Scan# 1063  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion: 117 Resp: 61544  
 Ion Ratio Lower Upper  
 117 100  
 119 91.6 73.1 109.7  
 121 30.6 24.4 36.6

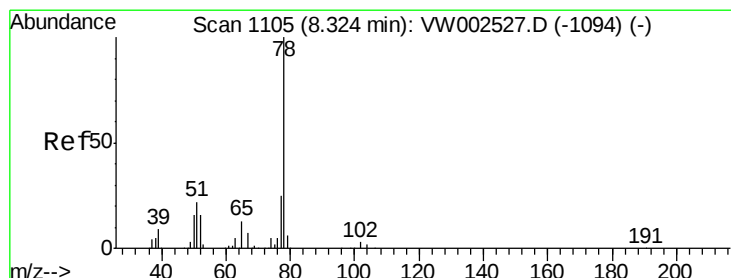
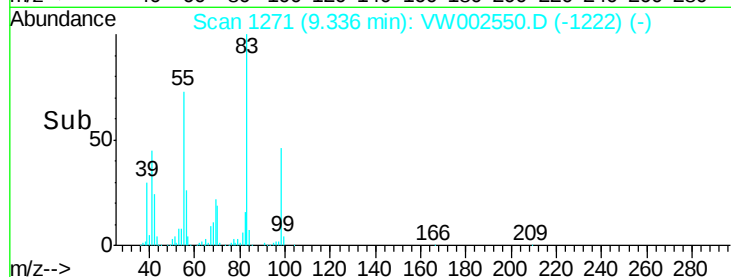
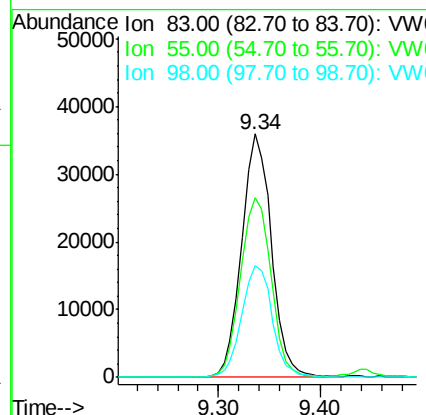
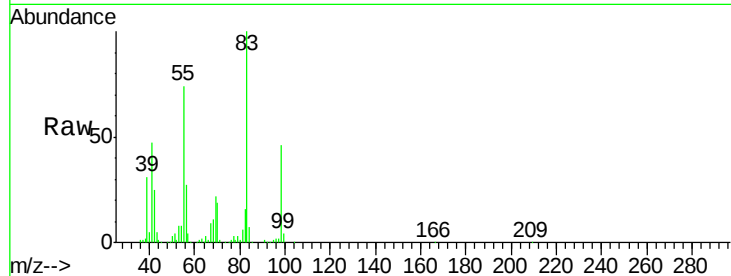




#39  
Methylcyclohexane  
Concen: 20.92 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

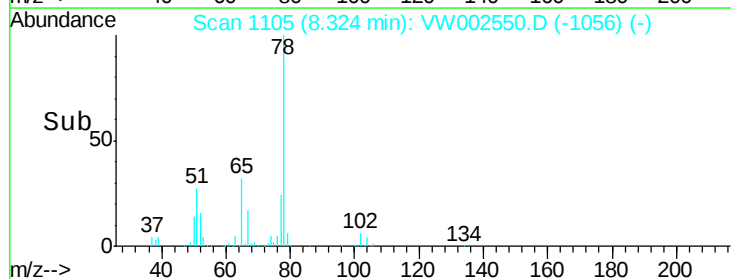
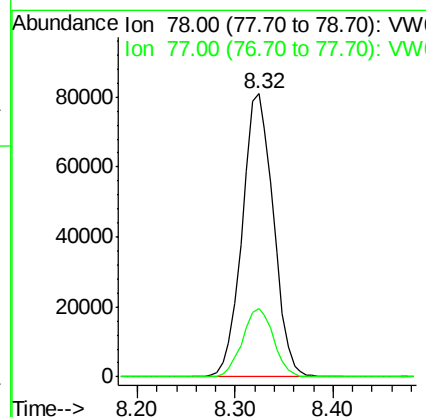
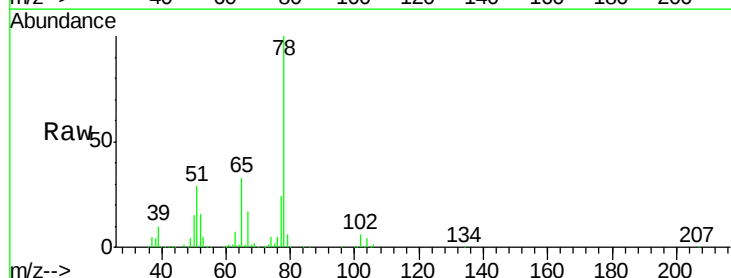
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

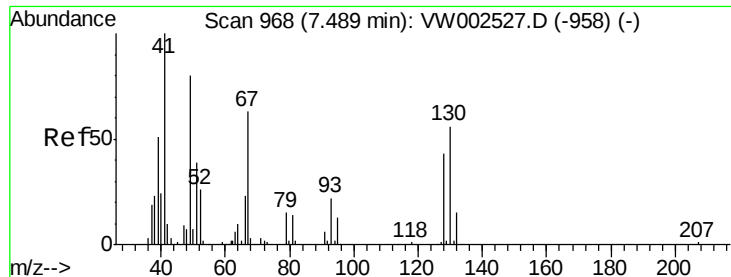
Tgt Ion: 83 Resp: 73059  
Ion Ratio Lower Upper  
83 100  
55 73.8 60.0 90.0  
98 46.1 37.0 55.4



#40  
Benzene  
Concen: 20.40 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 78 Resp: 178581  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.9 29.9

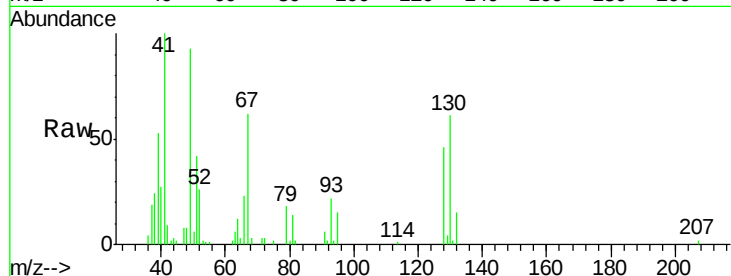




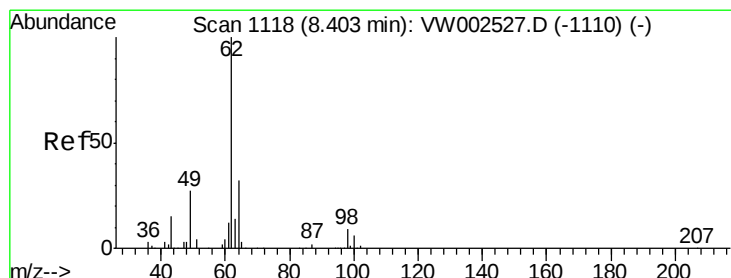
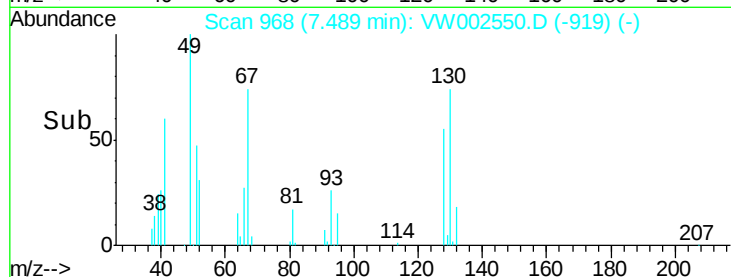
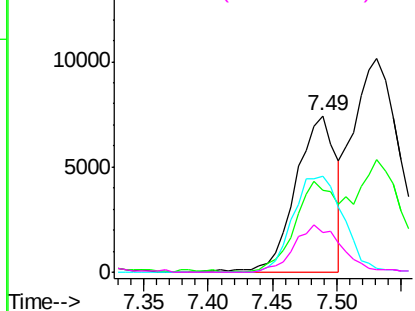
#41  
Methacrylonitrile  
Concen: 18.96 ug/l  
RT: 7.49 min Scan# 968  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBS02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 16049 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 58.6  | 51.8  | 77.8  |
| 67       | 77.3  | 59.9  | 89.9  |
| 52       | 36.2  | 26.6  | 39.8  |

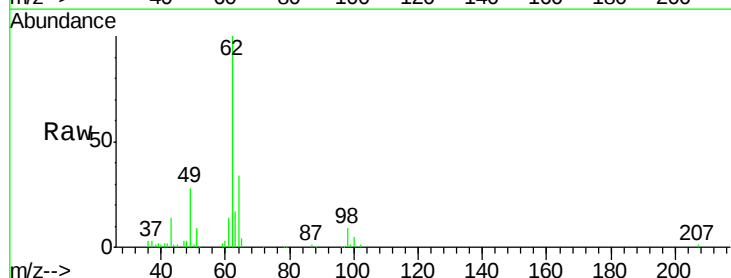


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

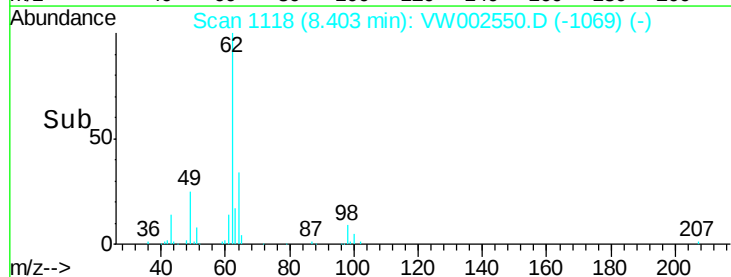
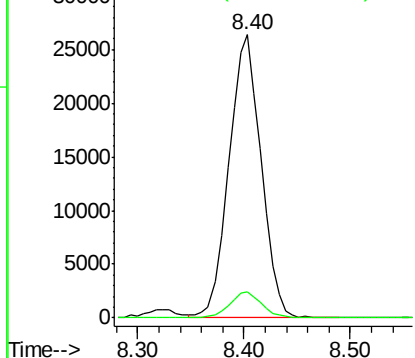


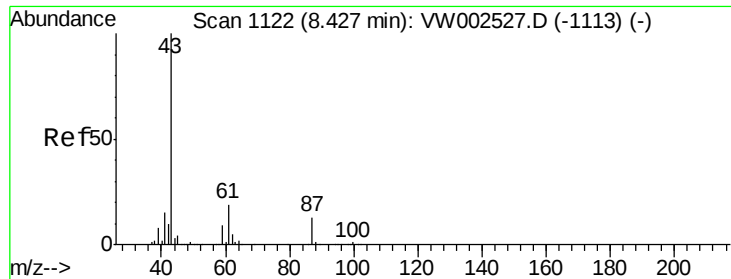
#42  
1,2-Dichloroethane  
Concen: 20.06 ug/l  
RT: 8.40 min Scan# 1118  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 55790 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.0   | 0.0   | 17.8  |



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

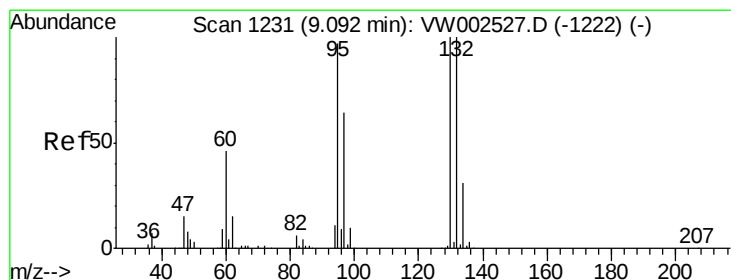
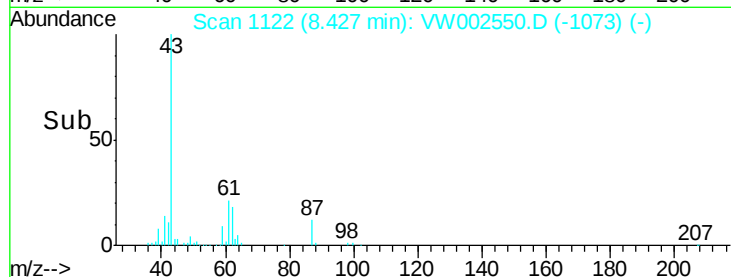
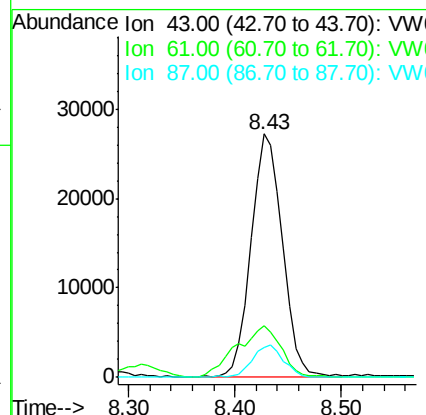
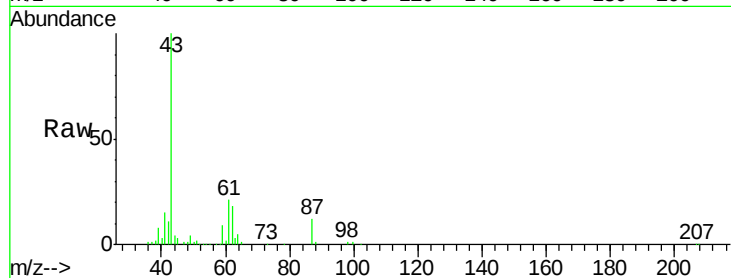




#43  
Isopropyl Acetate  
Concen: 19.51 ug/l  
RT: 8.43 min Scan# 1122  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

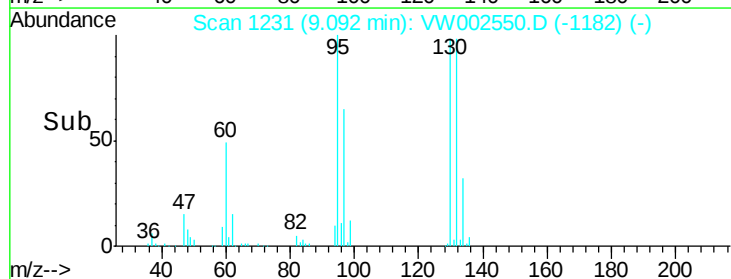
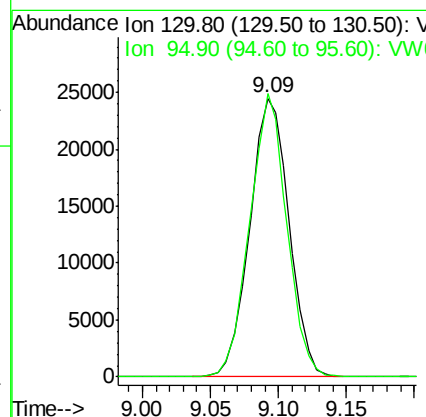
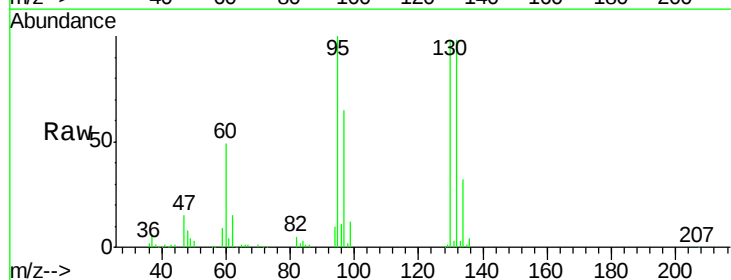
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

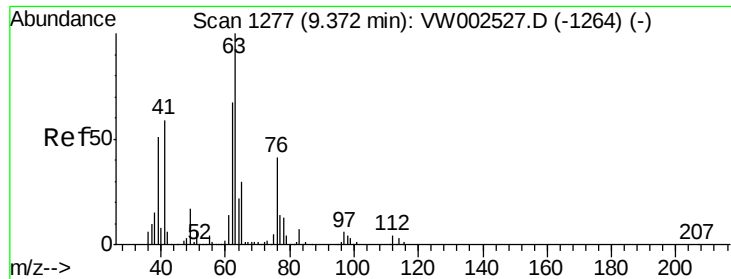
Tgt Ion: 43 Resp: 56761  
Ion Ratio Lower Upper  
43 100  
61 29.8 23.0 34.6  
87 13.1 10.6 15.8



#44  
Trichloroethene  
Concen: 20.54 ug/l  
RT: 9.09 min Scan# 1231  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 130 Resp: 49283  
Ion Ratio Lower Upper  
130 100  
95 101.5 0.0 194.6

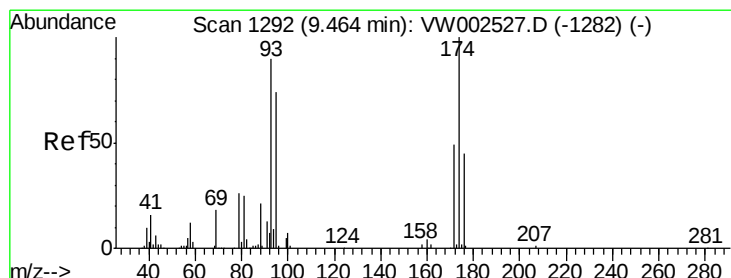
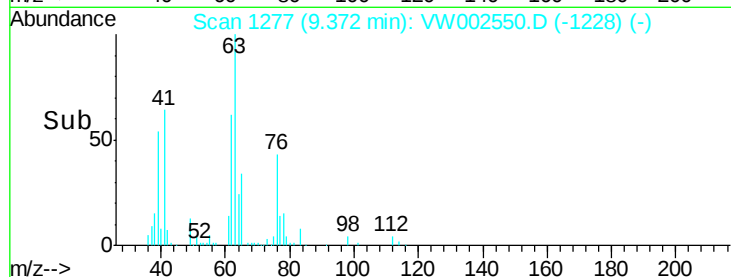
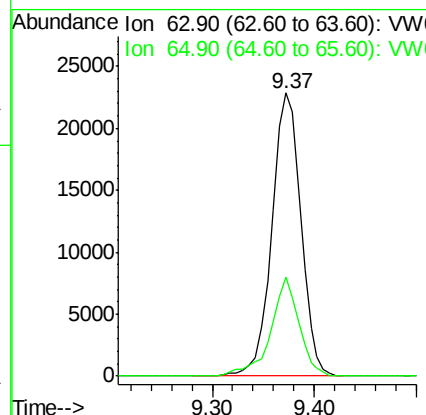
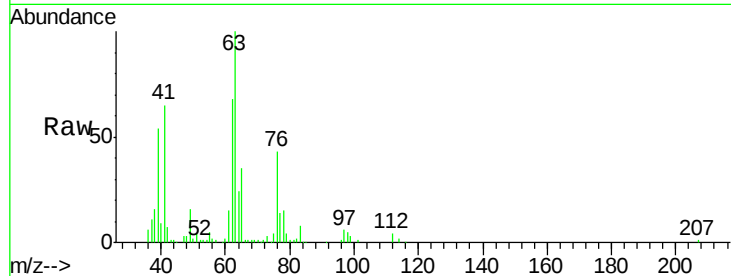




#45  
 1,2-Dichloropropane  
 Concen: 20.13 ug/l  
 RT: 9.37 min Scan# 1277  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

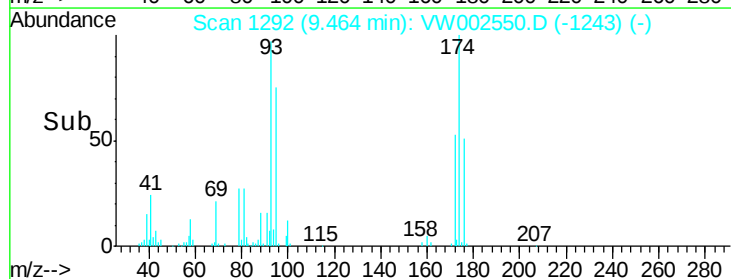
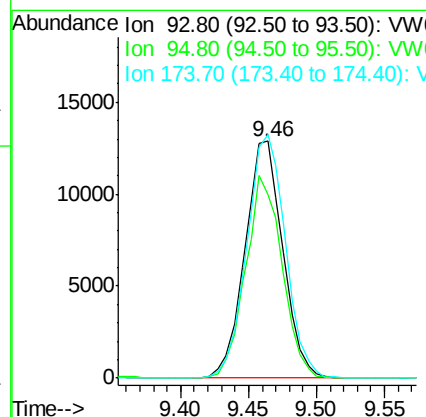
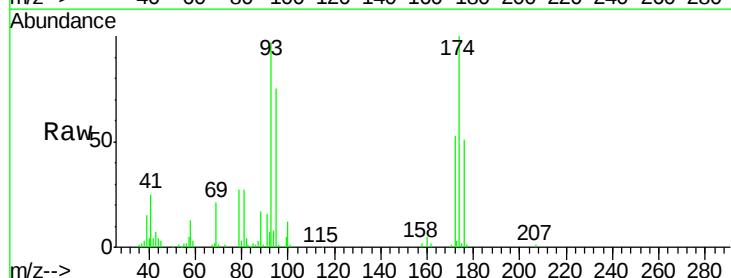
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

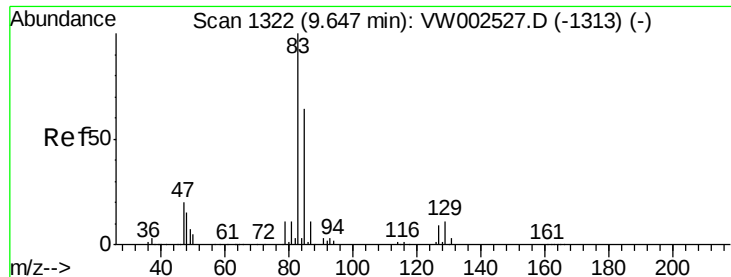
Tgt Ion: 63 Resp: 44913  
 Ion Ratio Lower Upper  
 63 100  
 65 35.1 24.4 36.6



#46  
 Dibromomethane  
 Concen: 19.76 ug/l  
 RT: 9.46 min Scan# 1292  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion: 93 Resp: 25087  
 Ion Ratio Lower Upper  
 93 100  
 95 82.4 66.6 100.0  
 174 105.0 84.0 126.0





#47

Bromodichloromethane

Concen: 19.86 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBS02

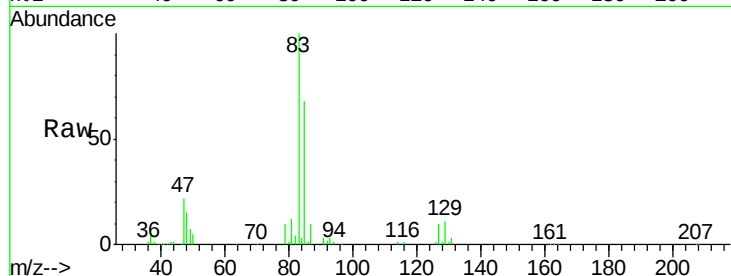
Tgt Ion: 83 Resp: 58804

Ion Ratio Lower Upper

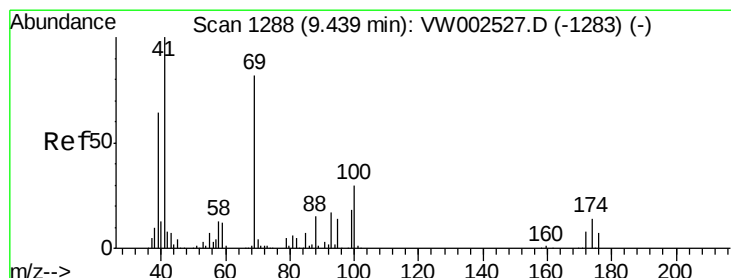
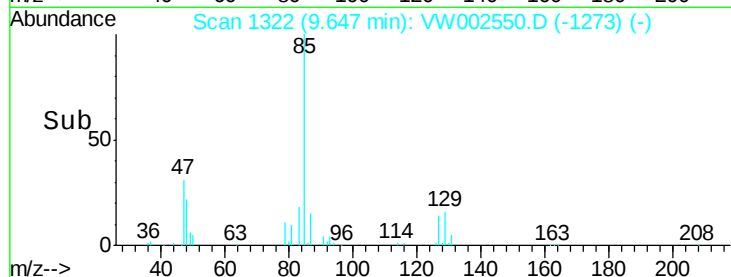
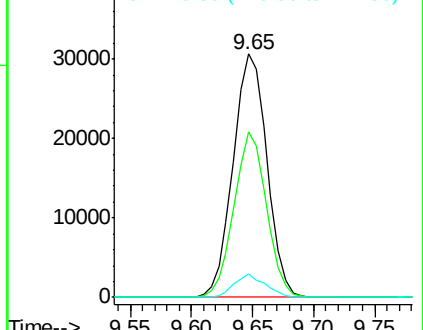
83 100

85 67.8 51.4 77.2

127 9.7 7.0 10.4



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



#48

Methyl methacrylate

Concen: 18.81 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

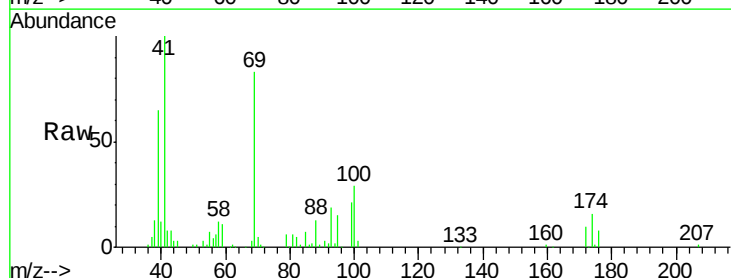
Tgt Ion: 41 Resp: 26517

Ion Ratio Lower Upper

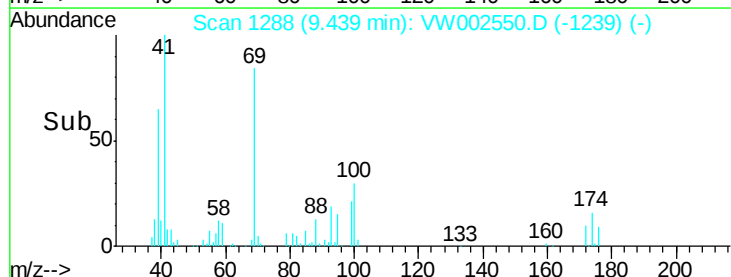
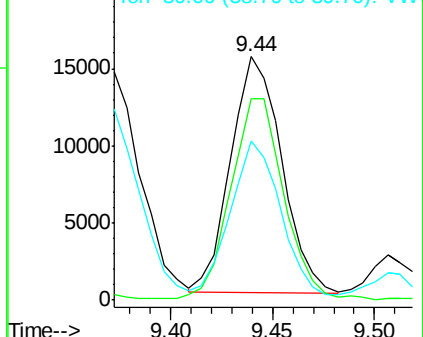
41 100

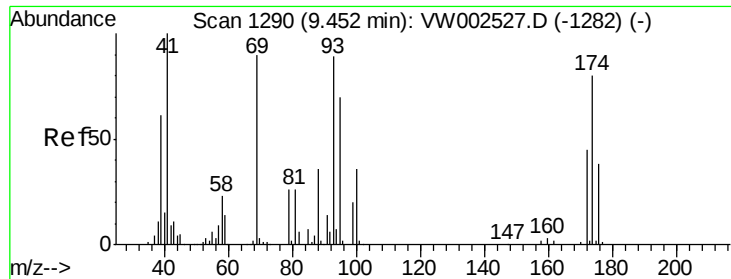
69 88.5 69.7 104.5

39 68.3 55.0 82.4



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





#49

1,4-Dioxane

Concen: 360.19 ug/l

RT: 9.46 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBS02

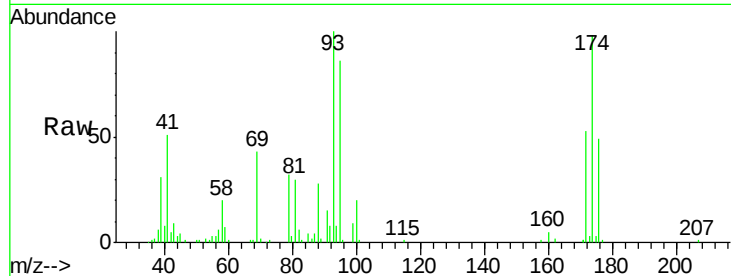
Tgt Ion: 88 Resp: 7621

Ion Ratio Lower Upper

88 100

43 34.5 27.0 40.4

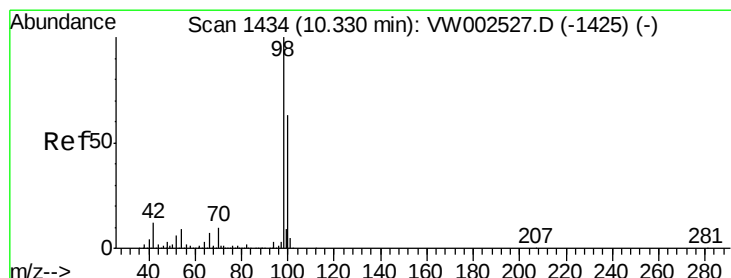
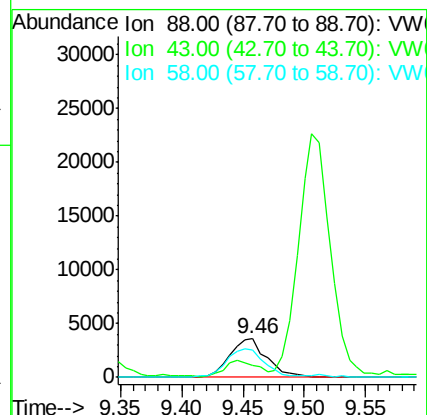
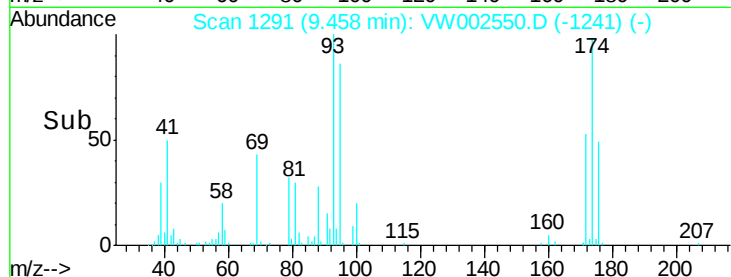
58 76.5 56.9 85.3



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 52.43 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002550.D

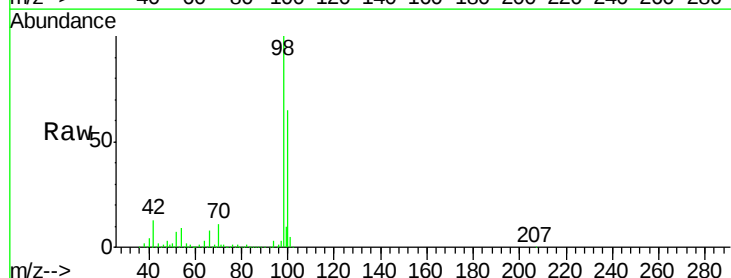
Acq: 15 May 2018 13:53

Tgt Ion: 98 Resp: 437254

Ion Ratio Lower Upper

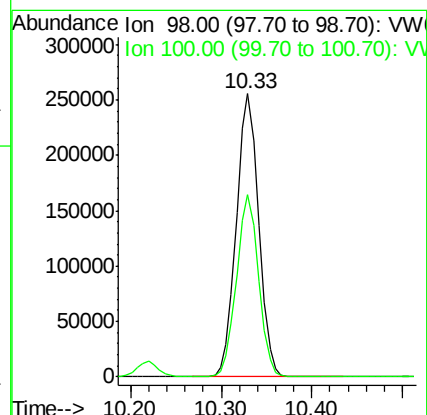
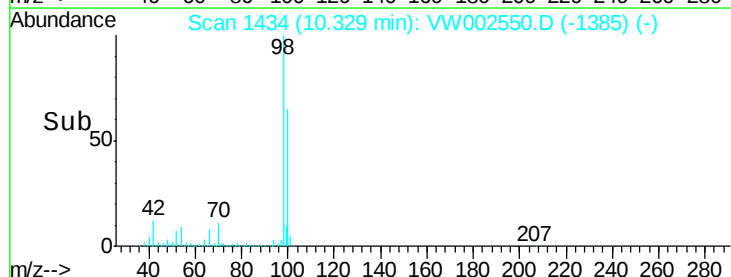
98 100

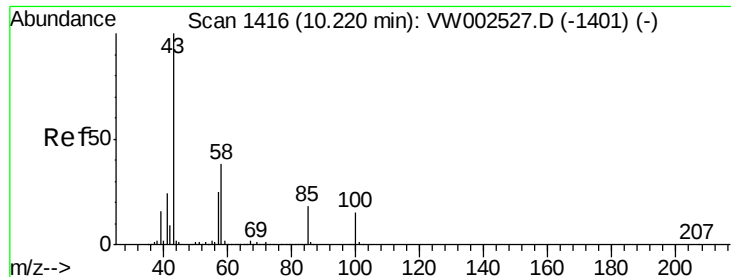
100 63.5 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

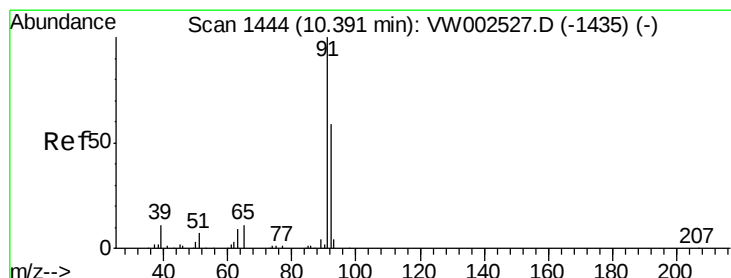
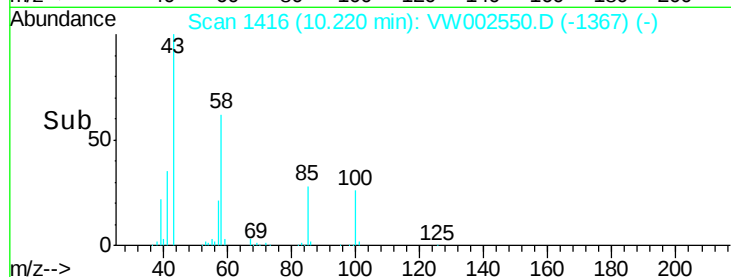
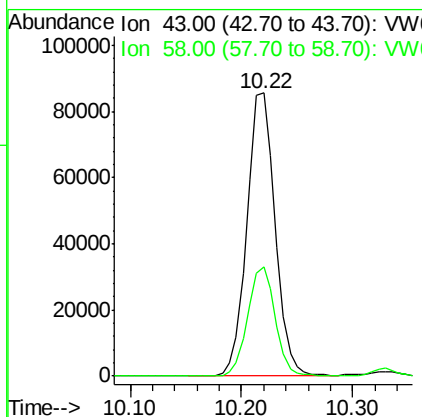
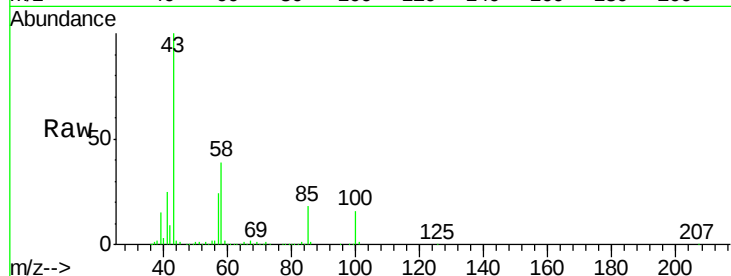




#51  
 4-Methyl-2-Pentanone  
 Concen: 94.80 ug/l  
 RT: 10.22 min Scan# 1416  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

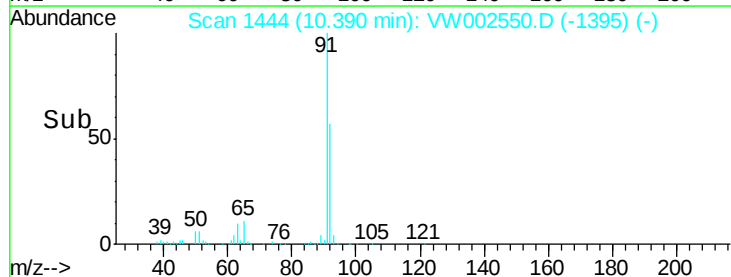
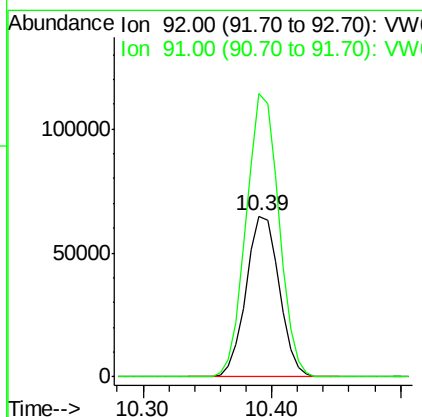
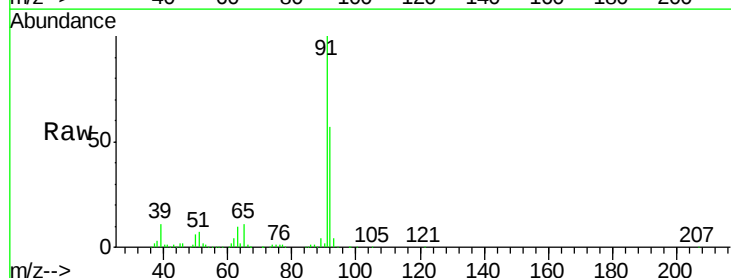
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

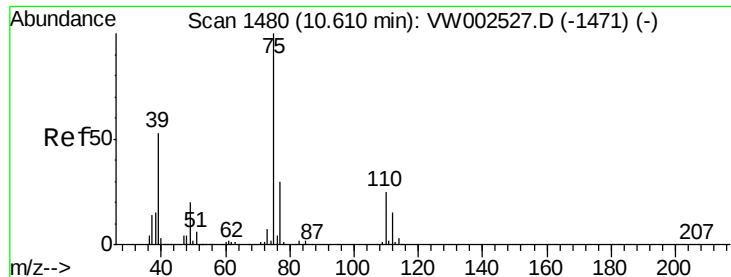
Tgt Ion: 43 Resp: 151405  
 Ion Ratio Lower Upper  
 43 100  
 58 37.6 30.1 45.1



#52  
 Toluene  
 Concen: 20.80 ug/l  
 RT: 10.39 min Scan# 1444  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion: 92 Resp: 115136  
 Ion Ratio Lower Upper  
 92 100  
 91 174.1 139.1 208.7





#53

t-1,3-Dichloropropene

Concen: 19.91 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

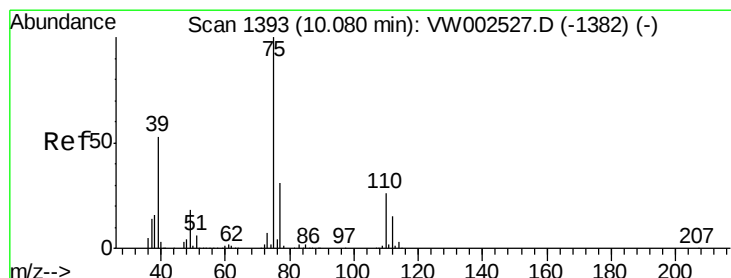
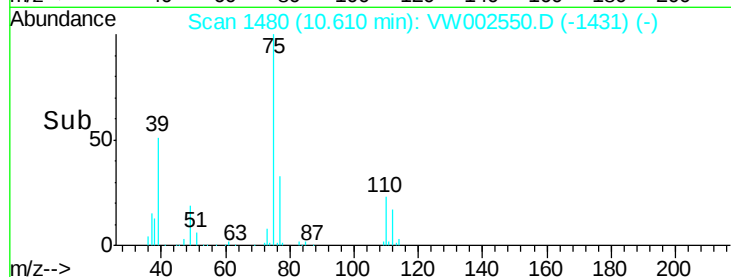
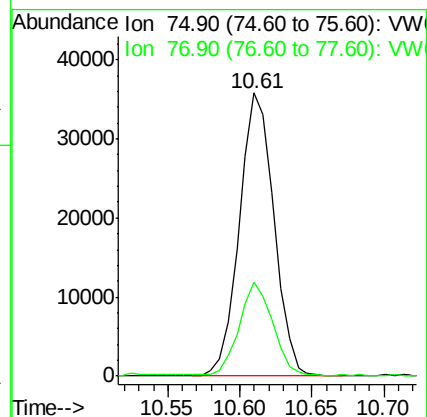
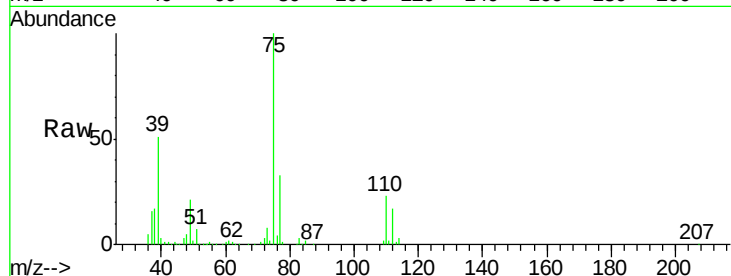
VW0515SBSD02

Tgt Ion: 75 Resp: 59608

Ion Ratio Lower Upper

75 100

77 32.7 24.1 36.1



#54

cis-1,3-Dichloropropene

Concen: 20.62 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

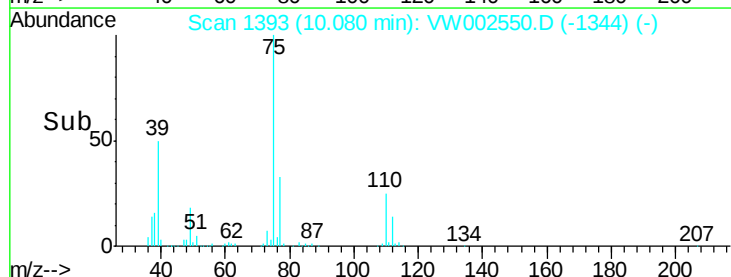
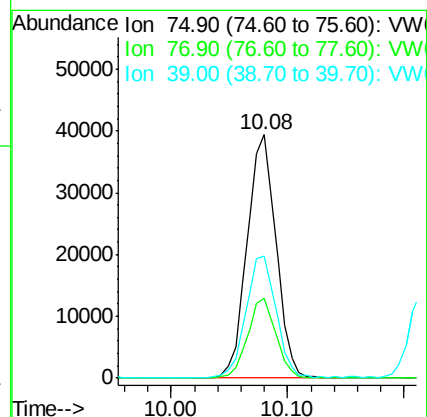
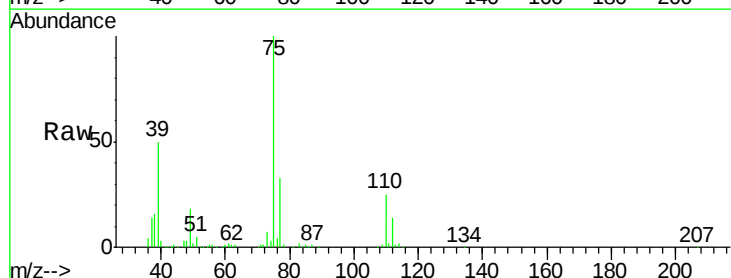
Tgt Ion: 75 Resp: 68805

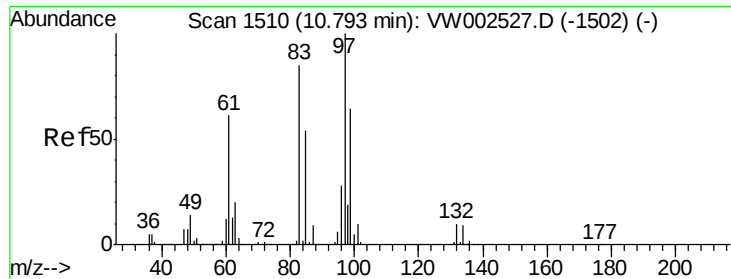
Ion Ratio Lower Upper

75 100

77 32.6 25.0 37.4

39 49.7 42.5 63.7





#55

1,1,2-Trichloroethane

Concen: 19.66 ug/l

RT: 10.79 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

Tgt Ion: 97 Resp: 35173

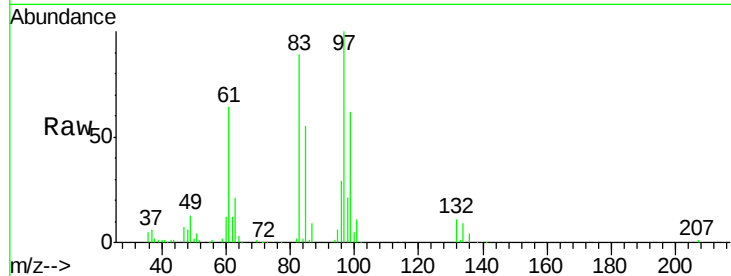
Ion Ratio Lower Upper

97 100

83 89.3 68.1 102.1

85 54.7 43.6 65.4

99 62.0 51.2 76.8

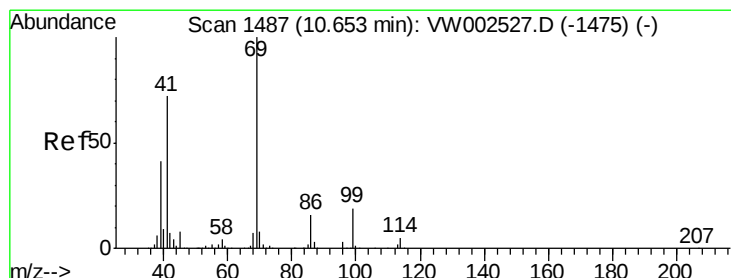
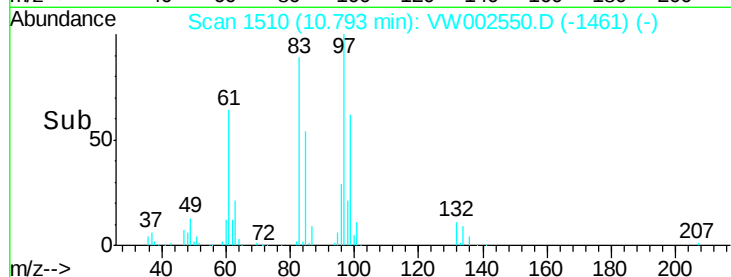
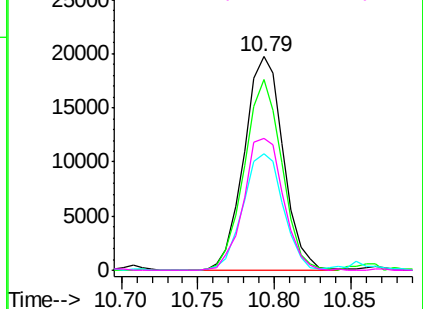


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 19.48 ug/l

RT: 10.65 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

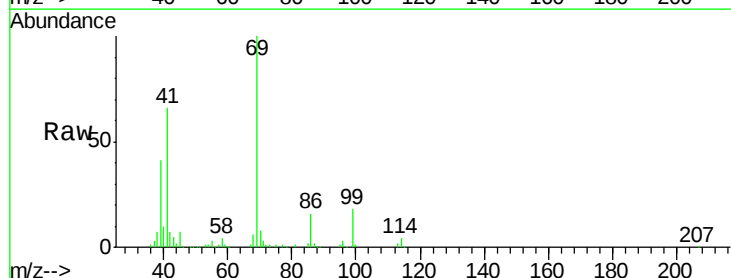
Tgt Ion: 69 Resp: 42468

Ion Ratio Lower Upper

69 100

41 67.1 55.3 82.9

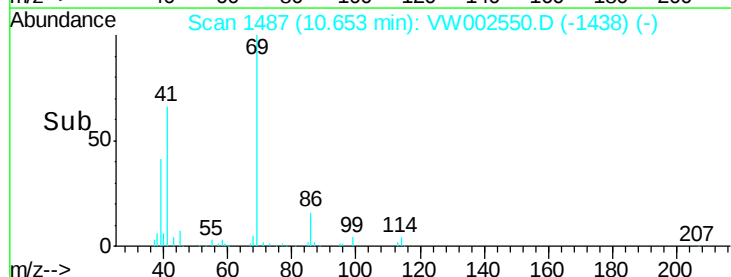
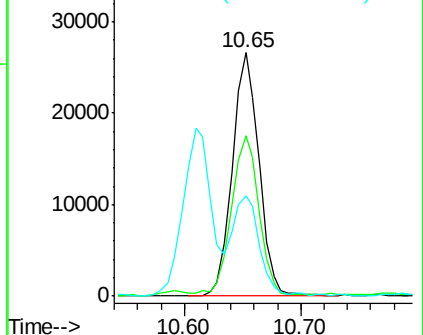
39 40.3 33.0 49.6

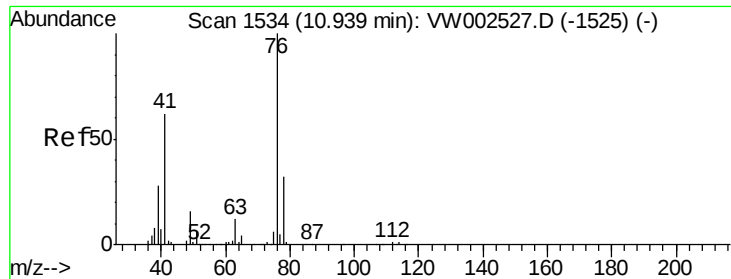


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

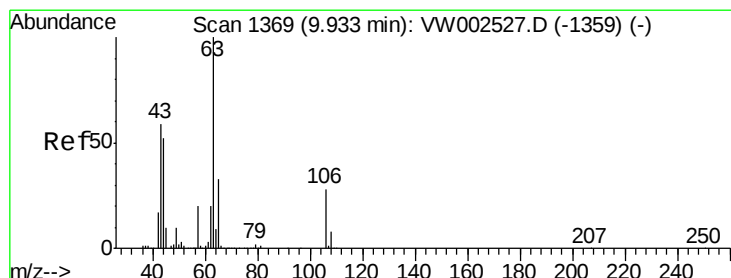
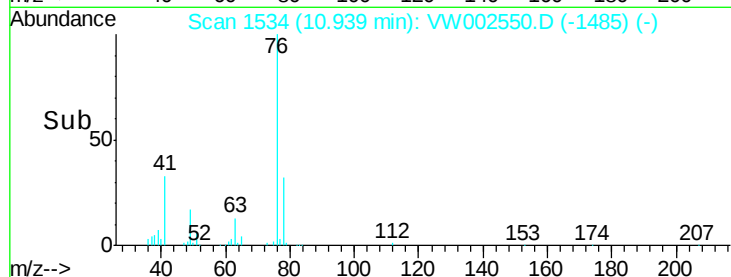
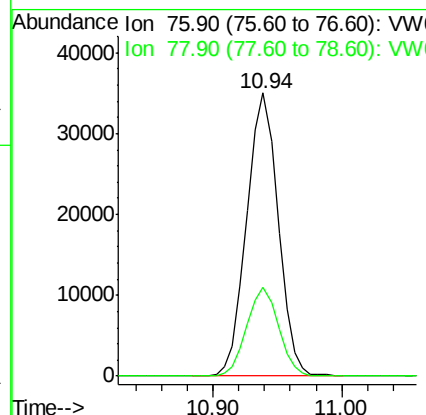
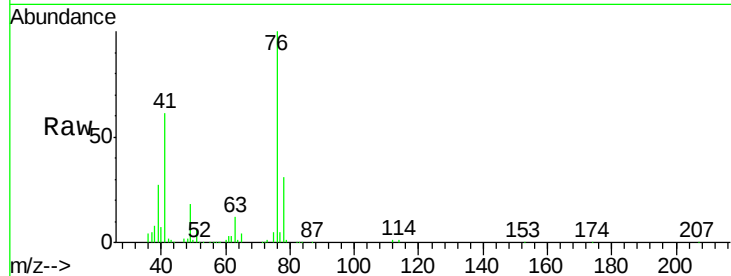




#57  
 1,3-Dichloropropane  
 Concen: 19.92 ug/l  
 RT: 10.94 min Scan# 1534  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

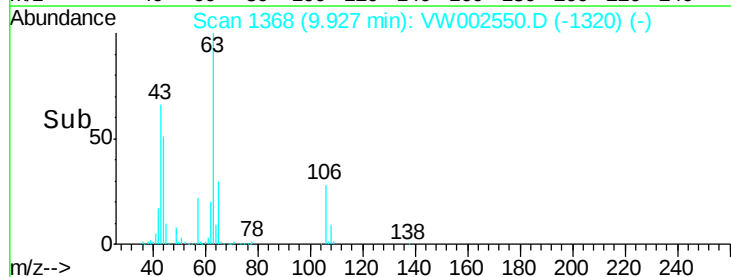
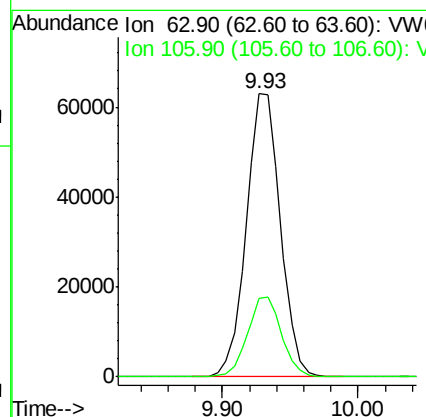
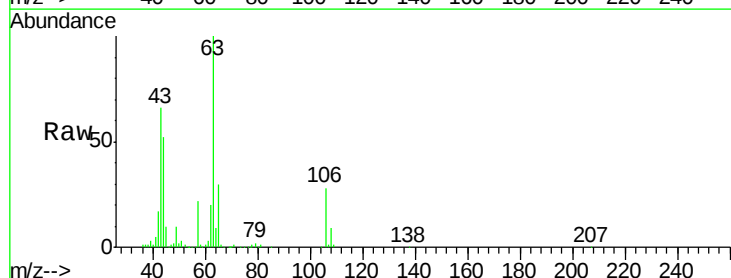
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

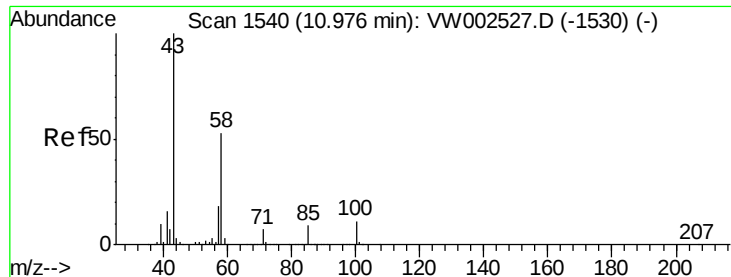
Tgt Ion: 76 Resp: 59090  
 Ion Ratio Lower Upper  
 76 100  
 78 31.7 25.6 38.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 102.83 ug/l  
 RT: 9.93 min Scan# 1368  
 Delta R.T. -0.01 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion: 63 Resp: 110034  
 Ion Ratio Lower Upper  
 63 100  
 106 28.1 22.9 34.3

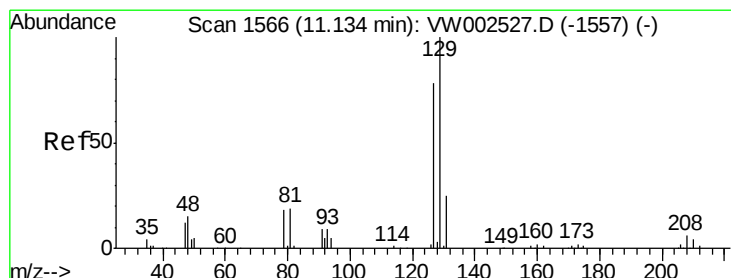
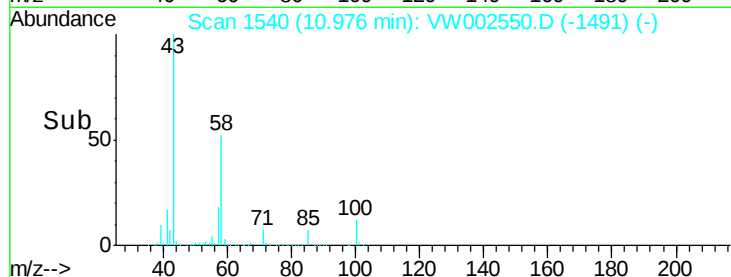
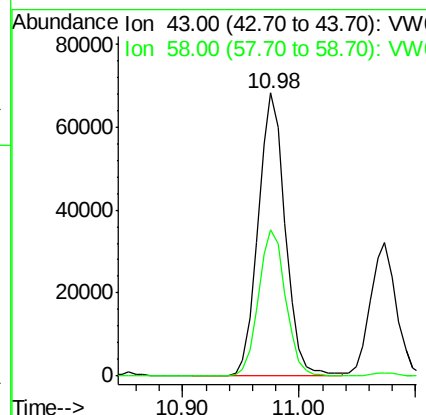
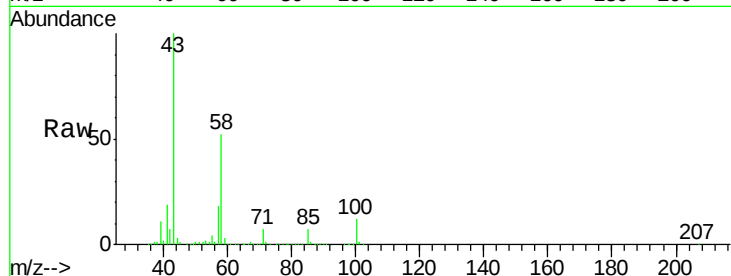




#59  
2-Hexanone  
Concen: 100.58 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

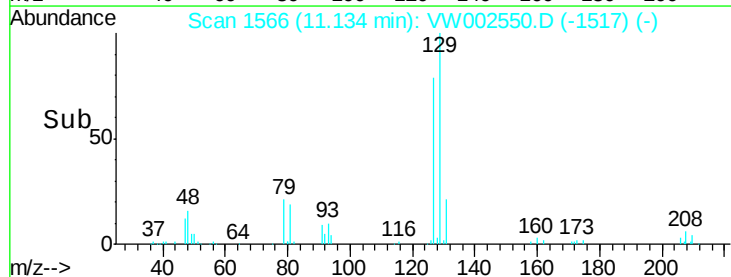
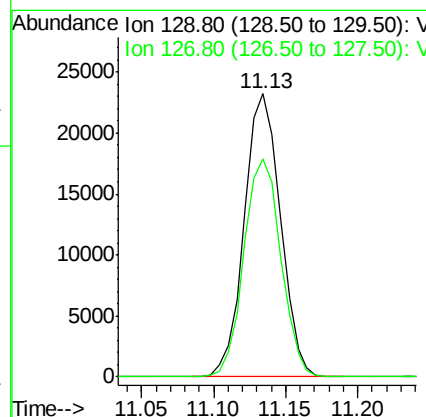
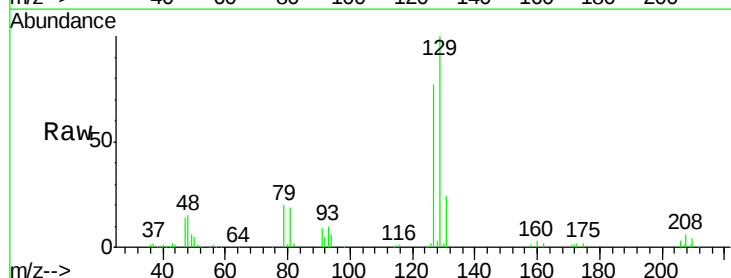
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

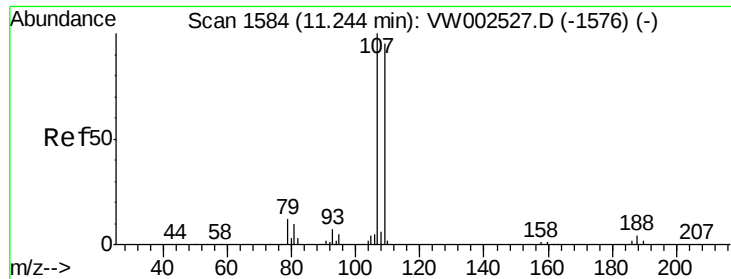
Tgt Ion: 43 Resp: 110897  
Ion Ratio Lower Upper  
43 100  
58 51.8 26.3 78.8



#60  
Dibromochloromethane  
Concen: 19.18 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 129 Resp: 40471  
Ion Ratio Lower Upper  
129 100  
127 78.3 38.6 115.7

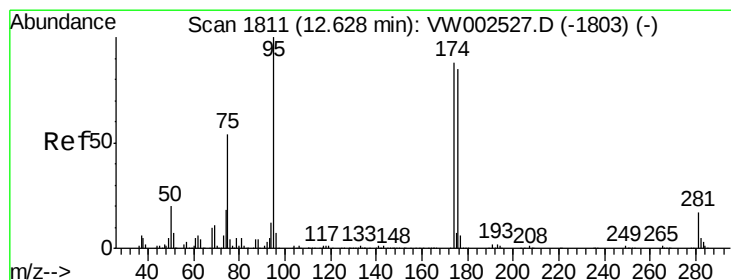
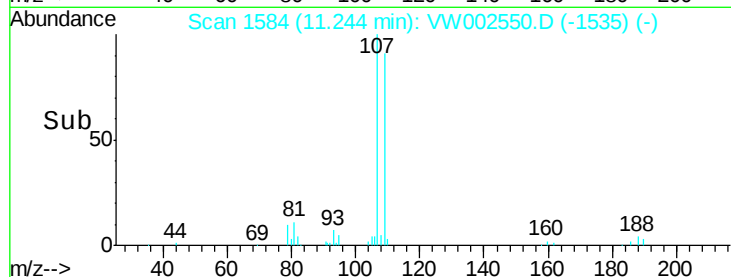
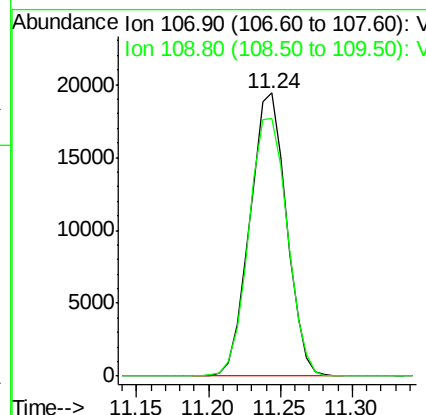
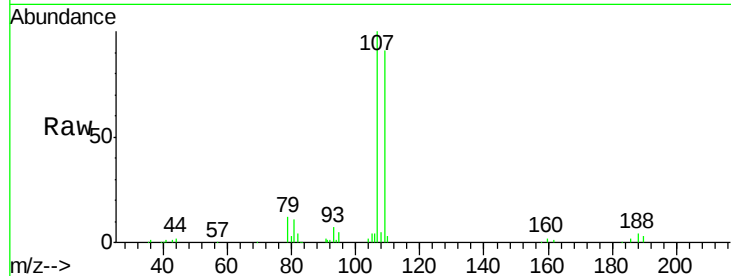




#61  
 1,2-Dibromoethane  
 Concen: 19.73 ug/l  
 RT: 11.24 min Scan# 1584  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

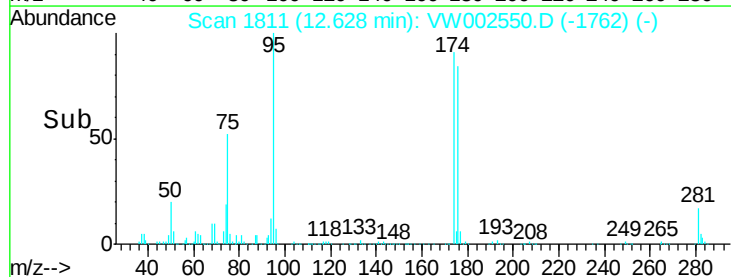
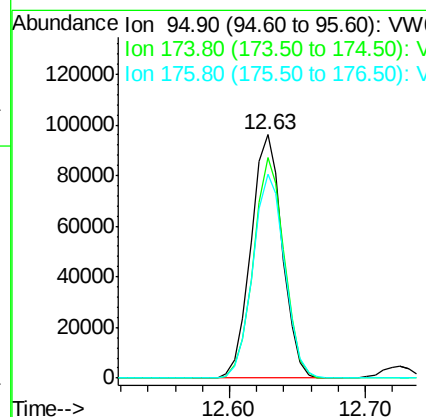
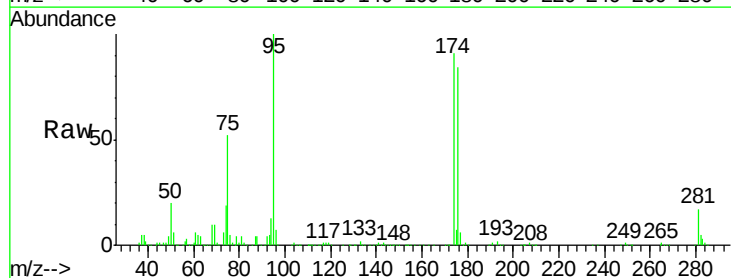
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

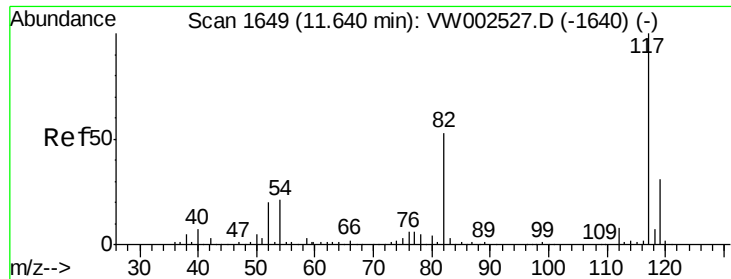
Tgt Ion: 107 Resp: 34052  
 Ion Ratio Lower Upper  
 107 100  
 109 96.3 75.4 113.2



#62  
 4-Bromofluorobenzene  
 Concen: 50.78 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion: 95 Resp: 154876  
 Ion Ratio Lower Upper  
 95 100  
 174 89.3 0.0 176.6  
 176 85.2 0.0 172.2

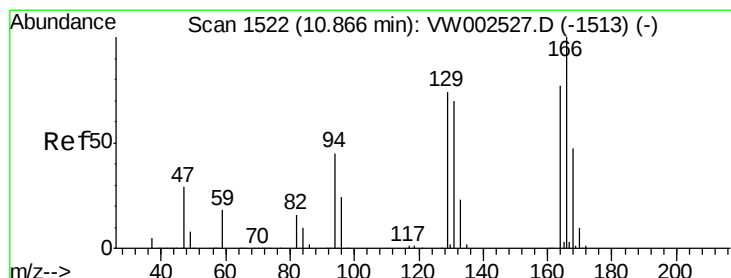
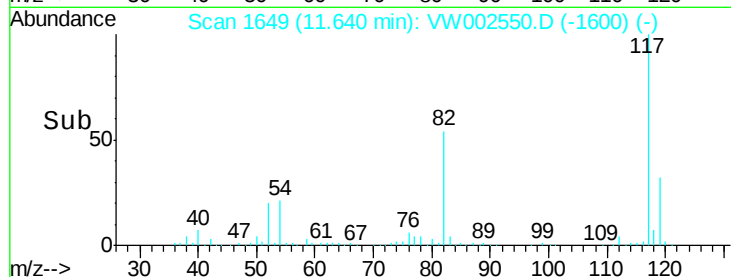
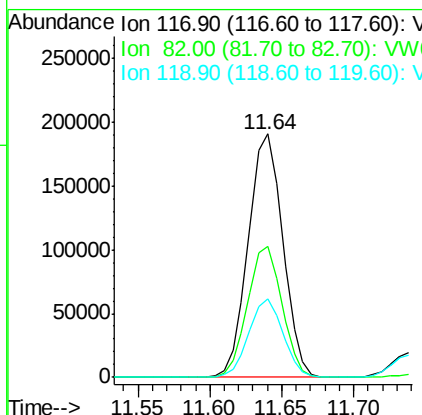
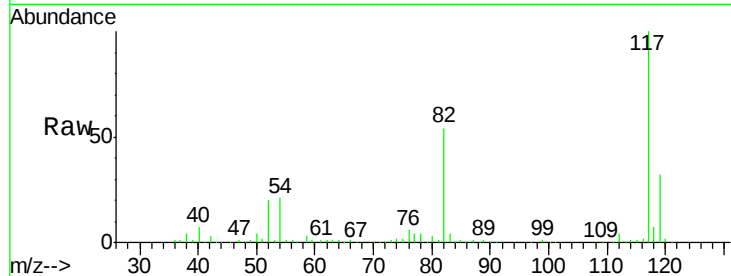




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

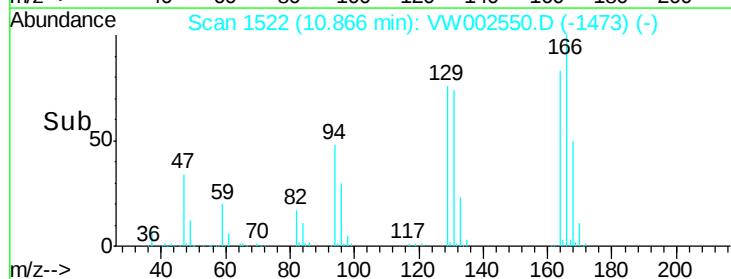
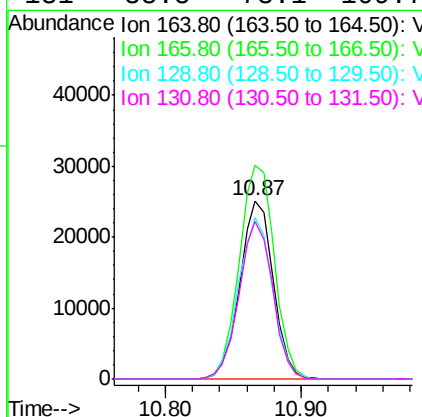
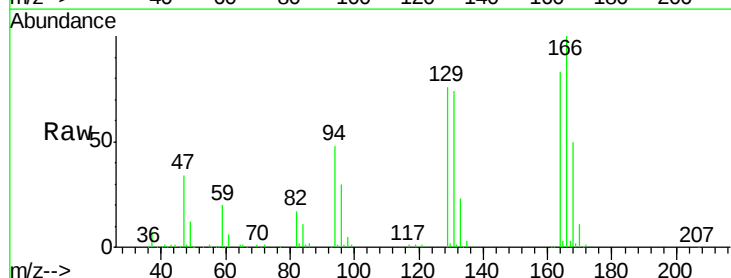
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0515SBSD02

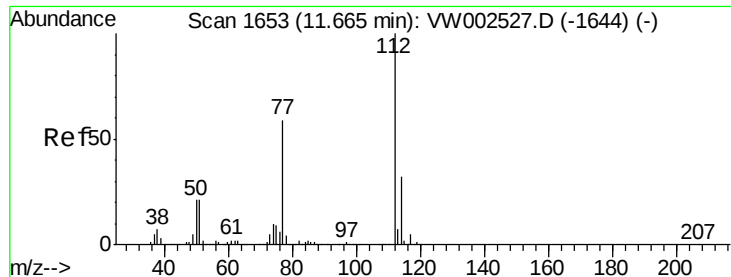
Tgt Ion:117 Resp: 316792  
Ion Ratio Lower Upper  
117 100  
82 53.6 42.6 64.0  
119 32.2 25.0 37.6



#64  
Tetrachloroethene  
Concen: 19.26 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion:164 Resp: 42998  
Ion Ratio Lower Upper  
164 100  
166 119.9 104.2 156.2  
129 90.7 77.0 115.4  
131 88.5 73.1 109.7

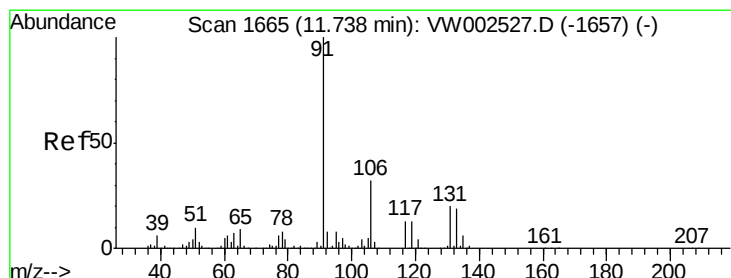
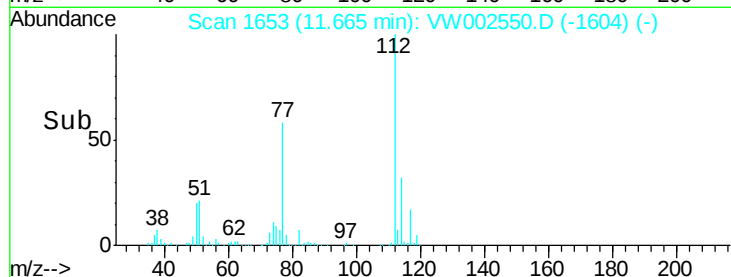
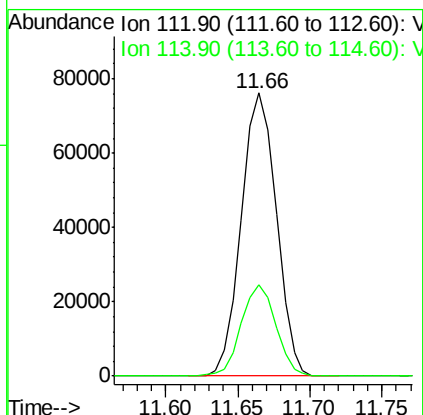
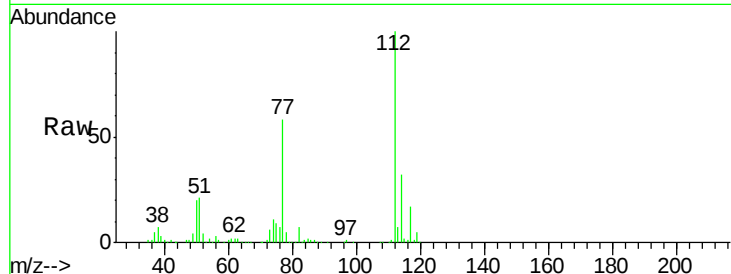




#65  
Chlorobenzene  
Concen: 20.44 ug/l  
RT: 11.66 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

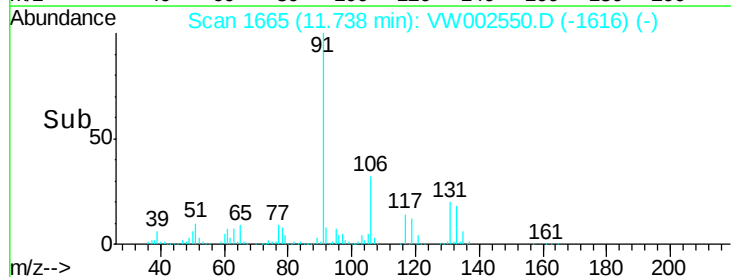
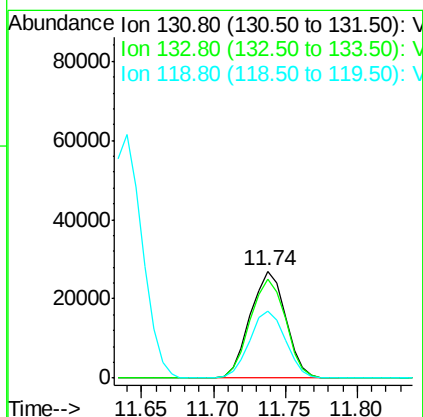
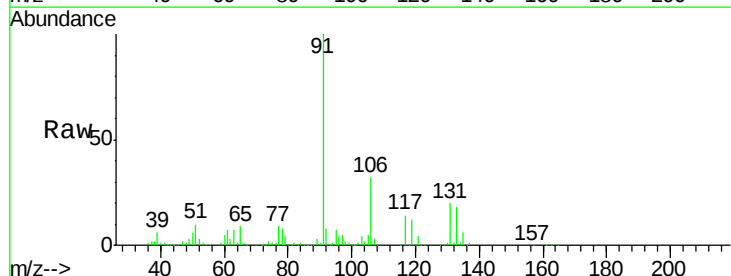
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

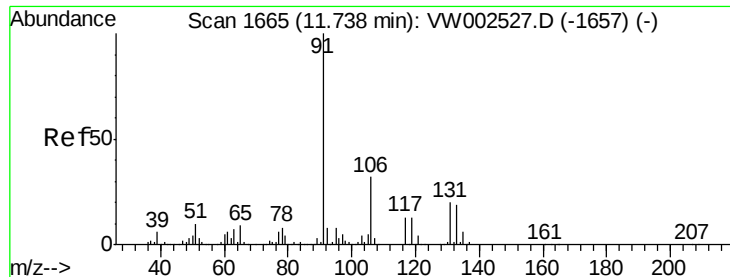
Tgt Ion:112 Resp: 128950  
Ion Ratio Lower Upper  
112 100  
114 32.3 25.3 37.9



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.44 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion:131 Resp: 46168  
Ion Ratio Lower Upper  
131 100  
133 92.2 48.4 145.3  
119 63.1 32.2 96.6

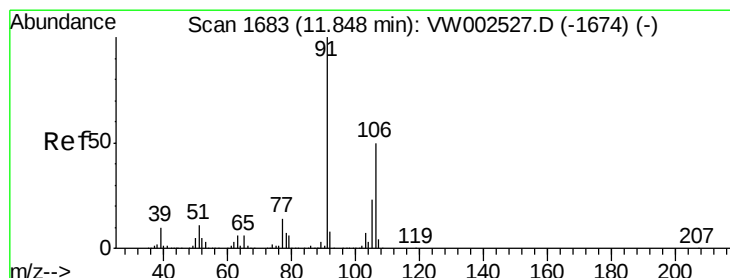
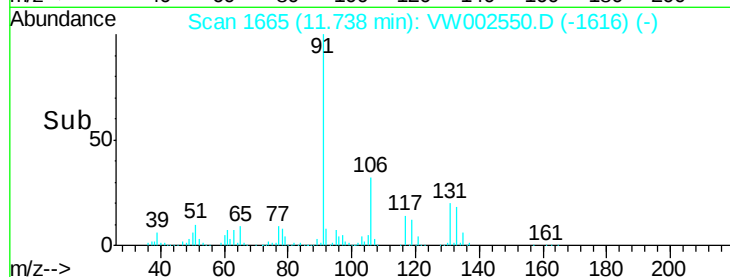
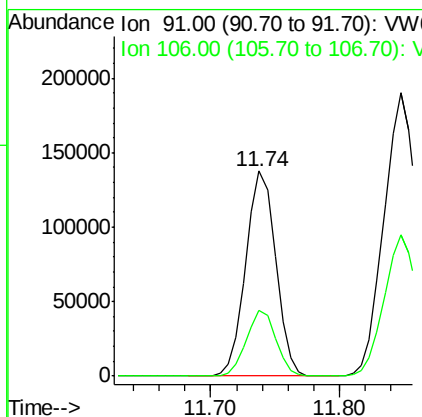
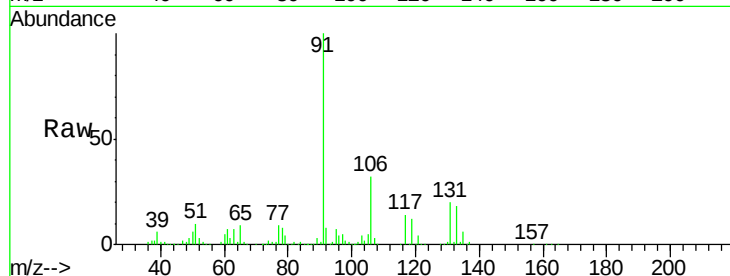




#67  
Ethyl Benzene  
Concen: 20.65 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

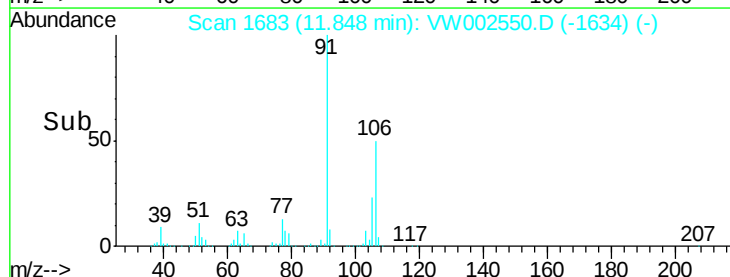
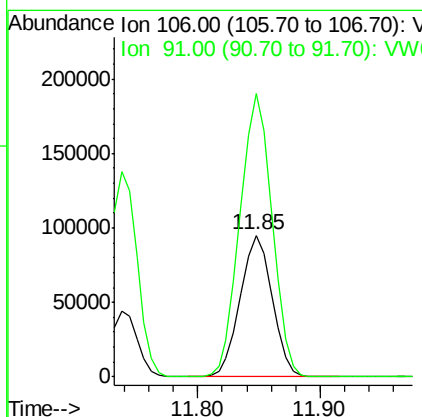
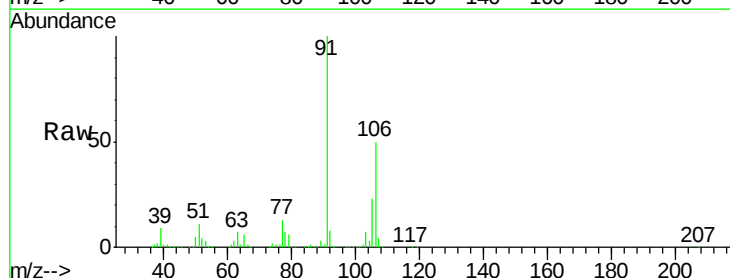
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

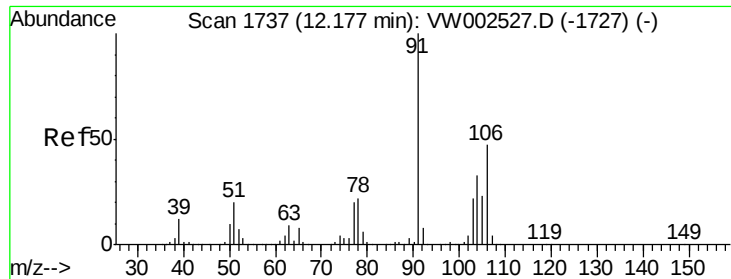
Tgt Ion: 91 Resp: 221392  
Ion Ratio Lower Upper  
91 100  
106 32.3 25.4 38.0



#68  
m/p-Xylenes  
Concen: 41.45 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion: 106 Resp: 172811  
Ion Ratio Lower Upper  
106 100  
91 201.4 161.4 242.2

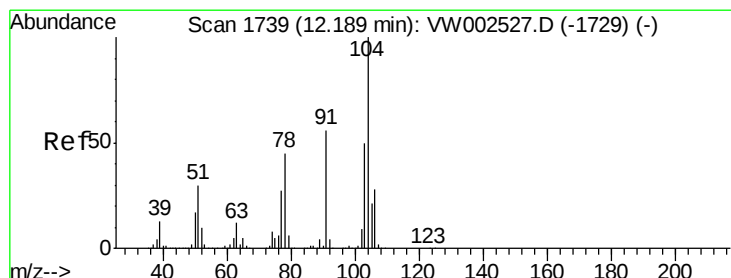
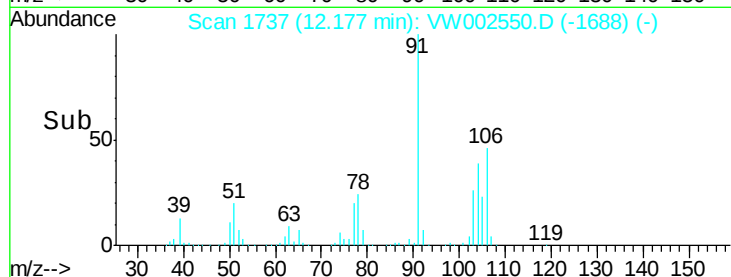
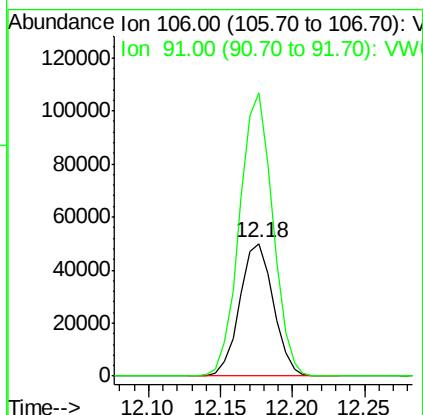
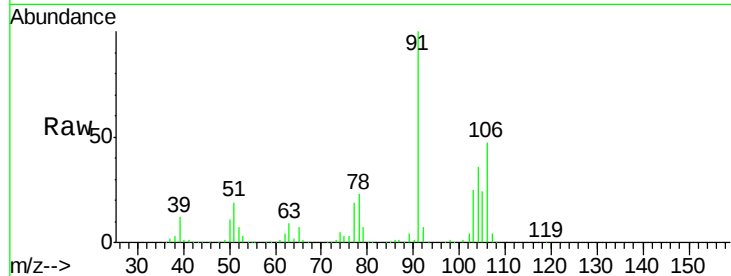




#69  
o-Xylene  
Concen: 20.41 ug/l  
RT: 12.18 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

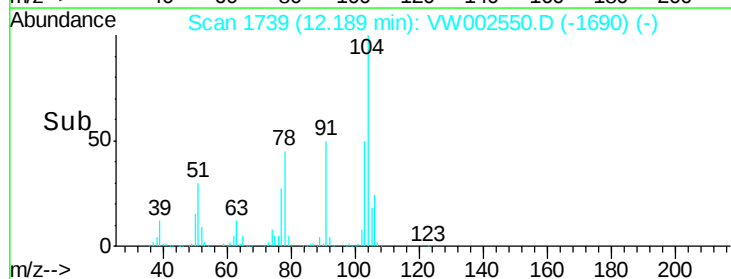
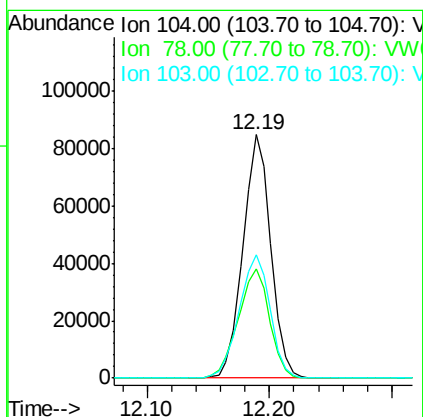
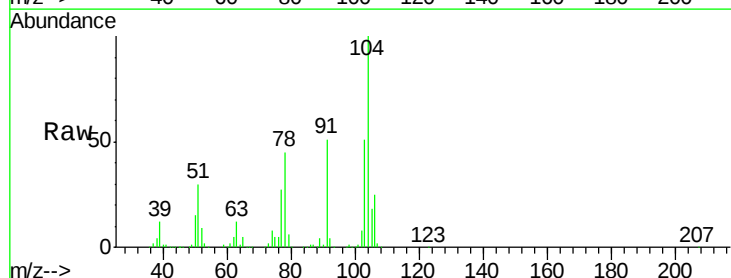
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0515SBSD02

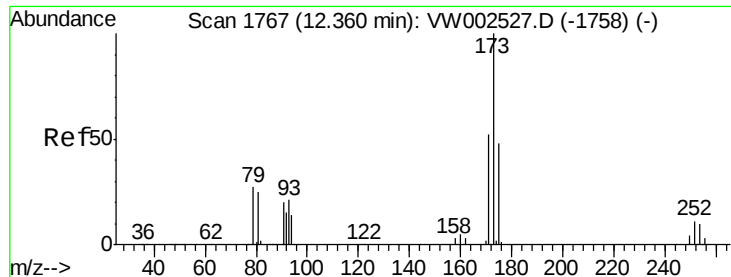
Tgt Ion:106 Resp: 80841  
Ion Ratio Lower Upper  
106 100  
91 211.6 106.7 320.2



#70  
Styrene  
Concen: 20.29 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. -0.00 min  
Lab File: VW002550.D  
Acq: 15 May 2018 13:53

Tgt Ion:104 Resp: 133773  
Ion Ratio Lower Upper  
104 100  
78 50.5 40.1 60.1  
103 56.3 44.6 66.8





#71

Bromoform

Concen: 19.41 ug/l

RT: 12.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

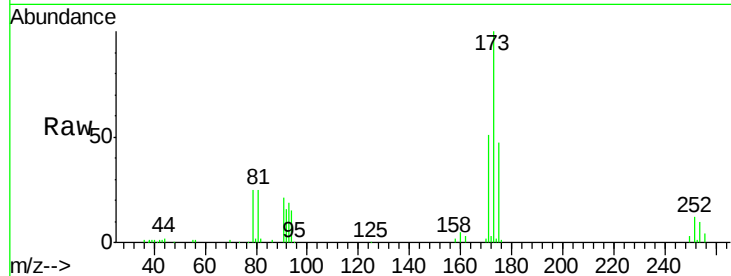
Tgt Ion:173 Resp: 25758

Ion Ratio Lower Upper

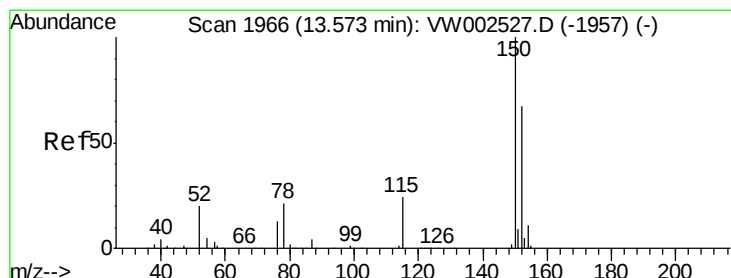
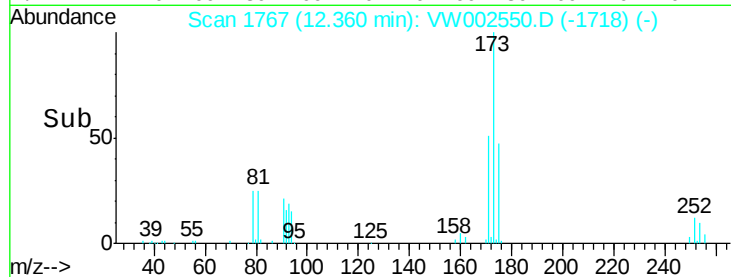
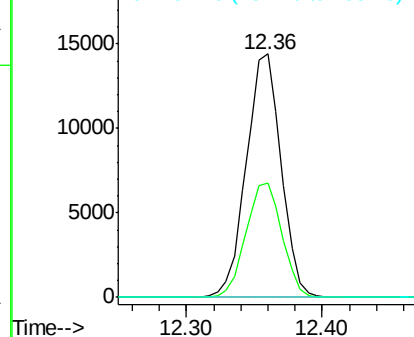
173 100

175 48.4 24.5 73.5

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

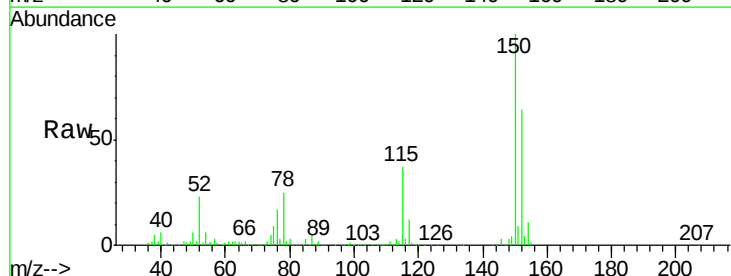
Tgt Ion:152 Resp: 172105

Ion Ratio Lower Upper

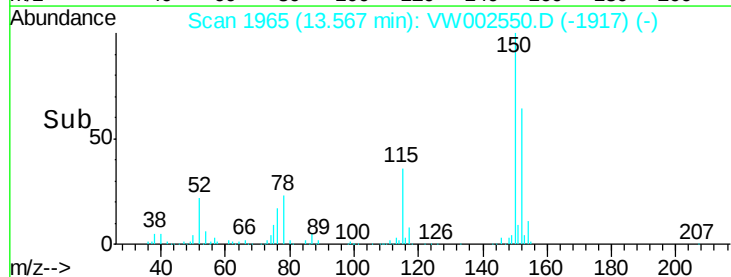
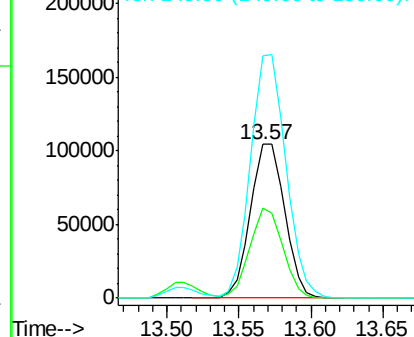
152 100

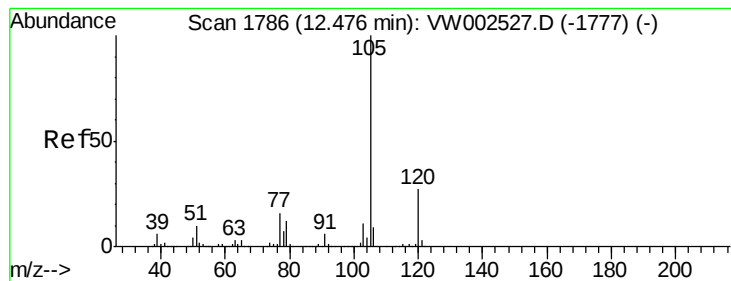
115 56.1 28.0 84.0

150 163.7 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.02 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

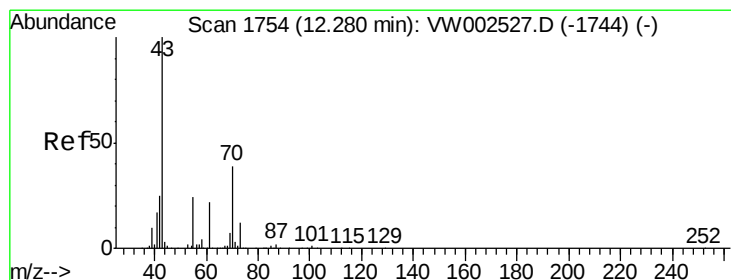
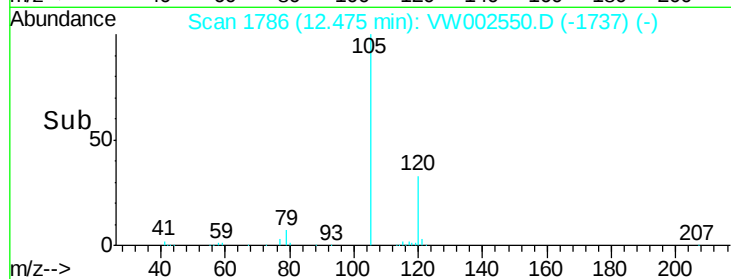
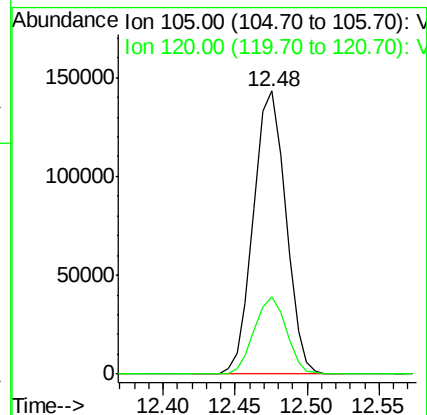
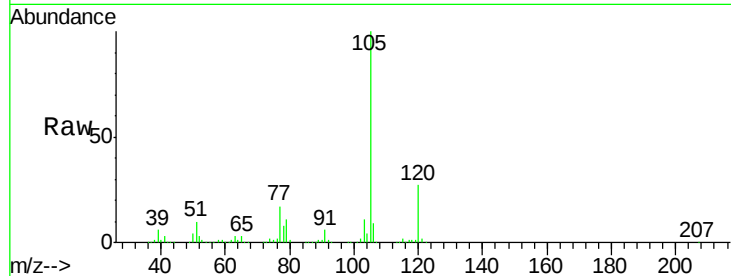
VW0515SBSD02

Tgt Ion: 105 Resp: 222946

Ion Ratio Lower Upper

105 100

120 27.0 13.4 40.2



#74

N-ethyl acetate

Concen: 20.14 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Tgt Ion: 43 Resp: 54443

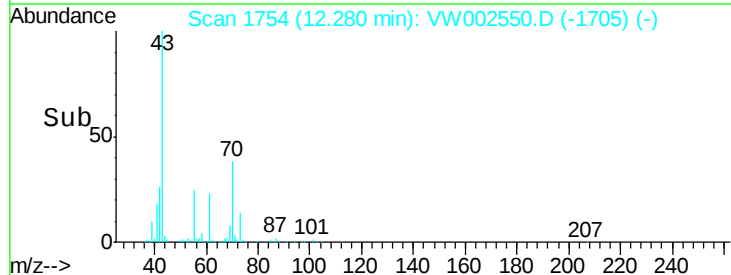
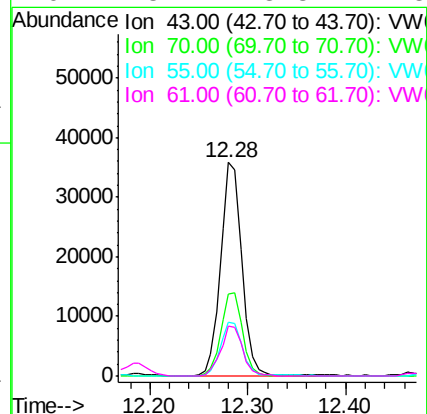
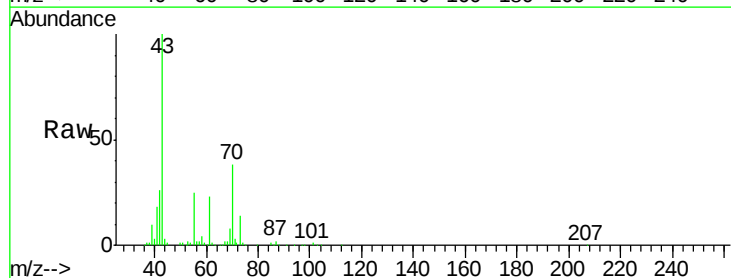
Ion Ratio Lower Upper

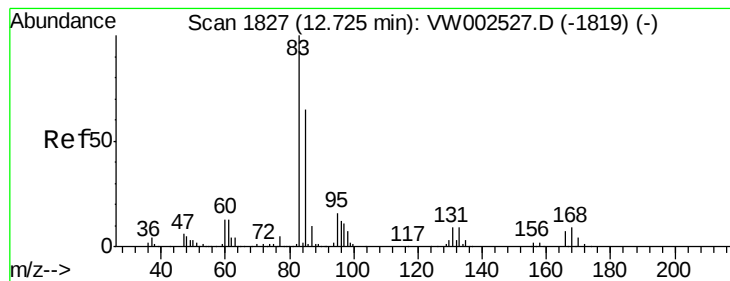
43 100

70 38.8 31.9 47.9

55 26.2 19.4 29.0

61 23.7 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.51 ug/l

RT: 12.73 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

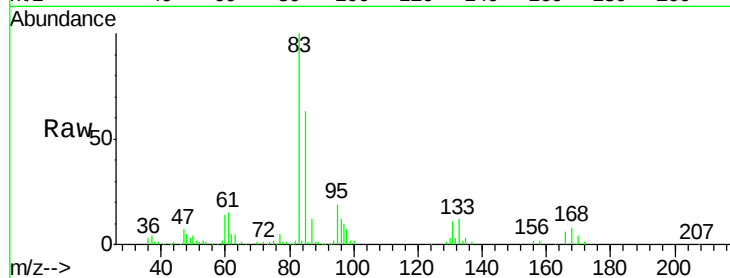
Tgt Ion: 83 Resp: 41938

Ion Ratio Lower Upper

83 100

131 11.8 5.4 16.2

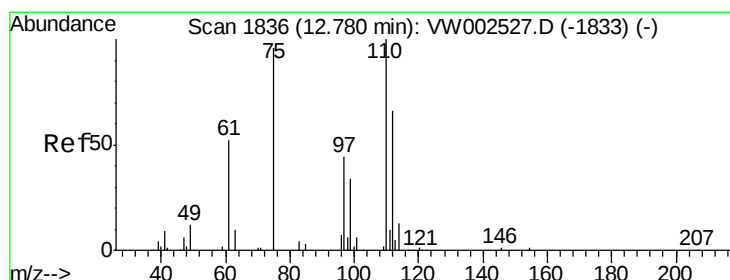
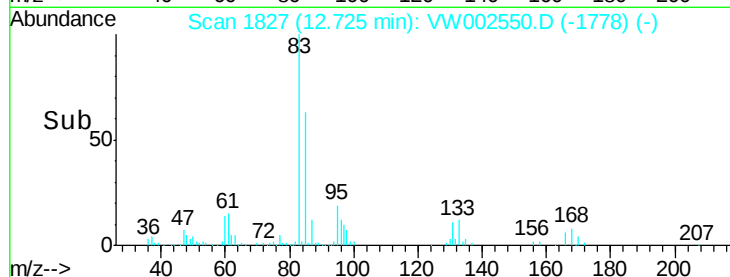
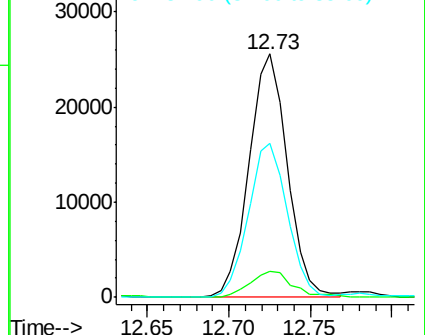
85 64.5 31.6 94.8



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 33.95 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. -0.01 min

Lab File: VW002550.D

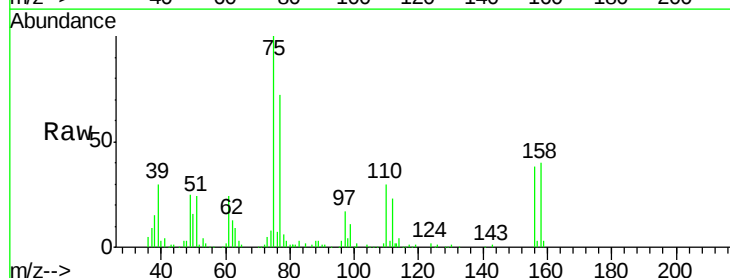
Acq: 15 May 2018 13:53

Tgt Ion: 75 Resp: 55232

Ion Ratio Lower Upper

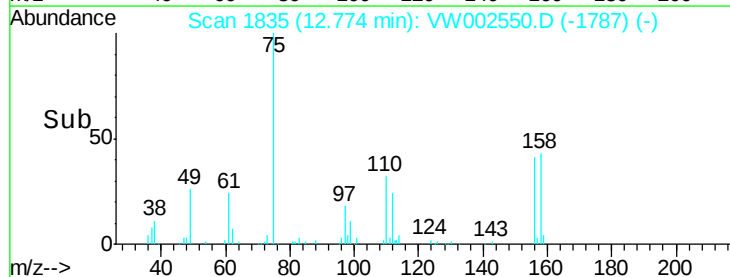
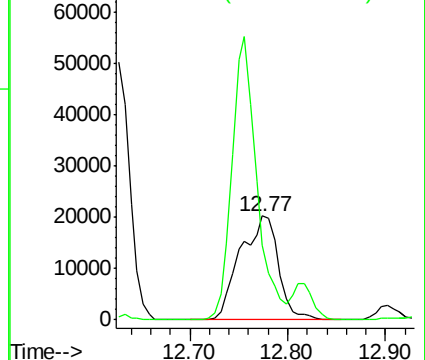
75 100

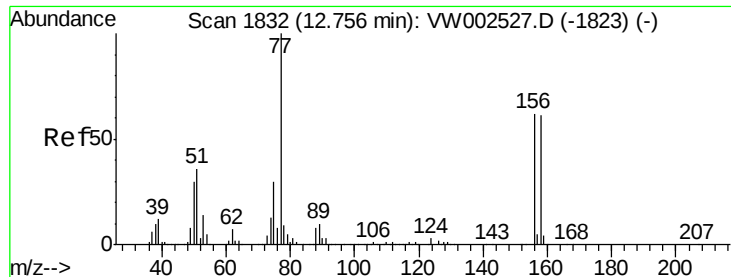
77 177.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.67 ug/l

RT: 12.76 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

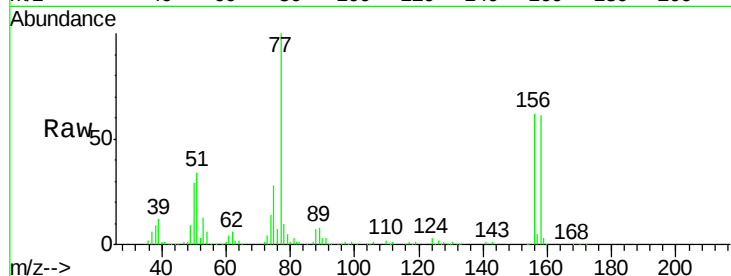
Tgt Ion:156 Resp: 55947

Ion Ratio Lower Upper

156 100

77 174.9 89.8 269.4

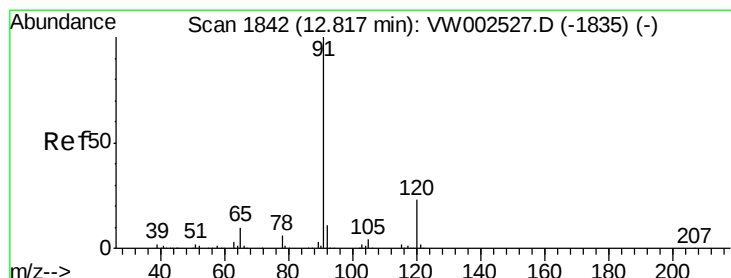
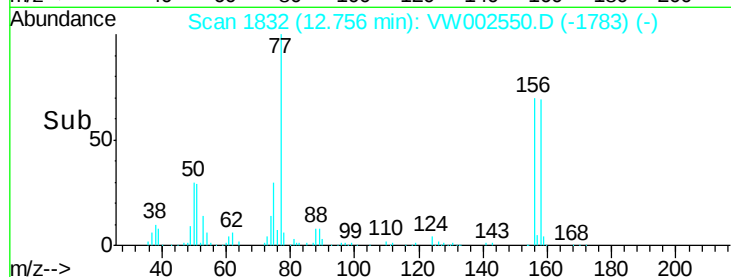
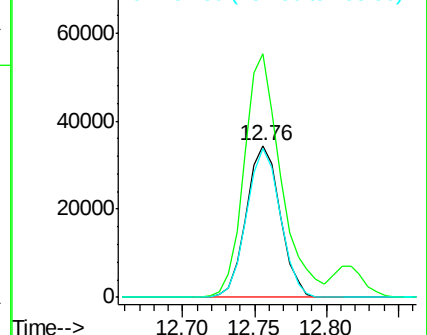
158 97.6 48.8 146.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.36 ug/l

RT: 12.82 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VW002550.D

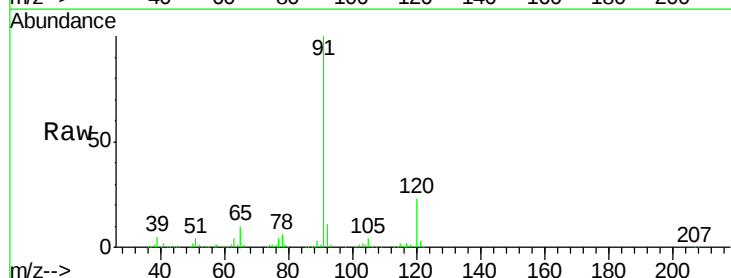
Acq: 15 May 2018 13:53

Tgt Ion: 91 Resp: 273650

Ion Ratio Lower Upper

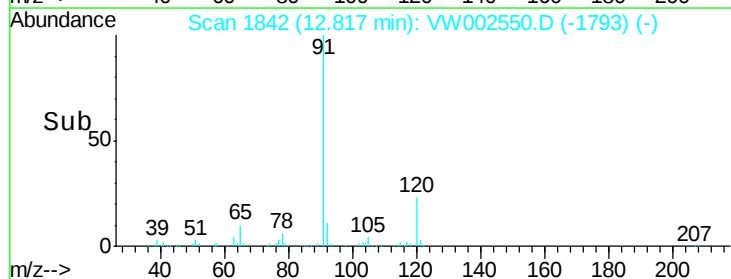
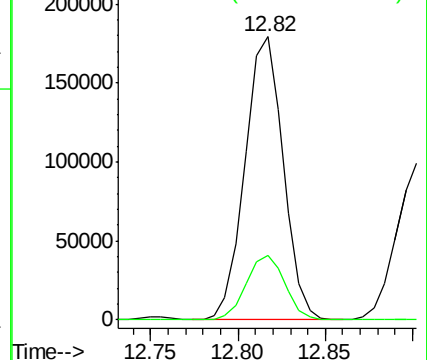
91 100

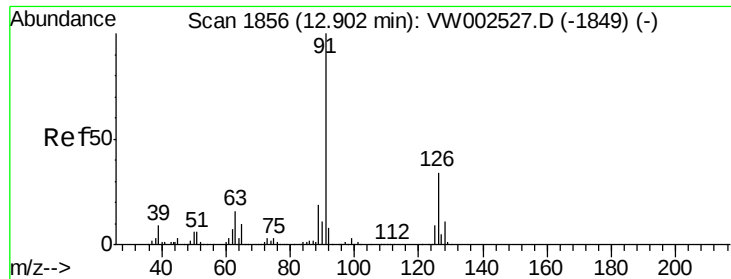
120 23.3 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.08 ug/l

RT: 12.90 min Scan# 1856

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

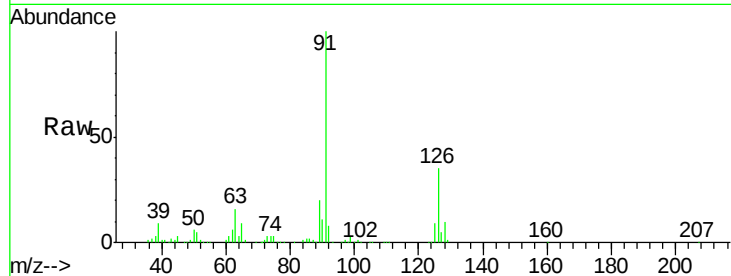
VW0515SBSD02

Tgt Ion: 91 Resp: 153355

Ion Ratio Lower Upper

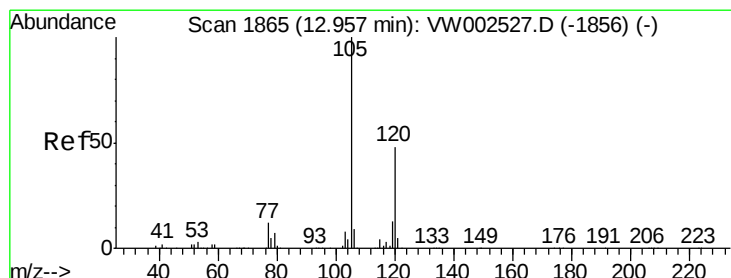
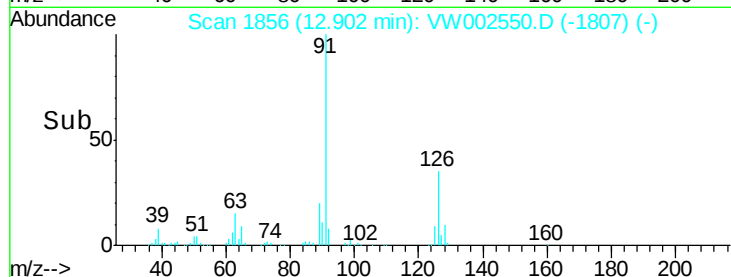
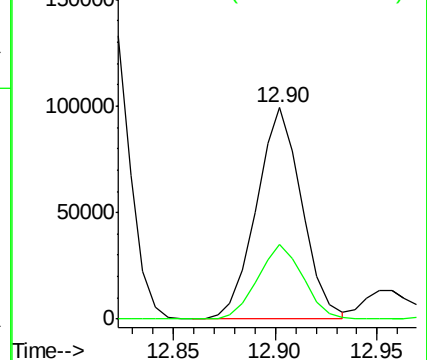
91 100

126 35.4 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 21.21 ug/l

RT: 12.96 min Scan# 1865

Delta R.T. -0.00 min

Lab File: VW002550.D

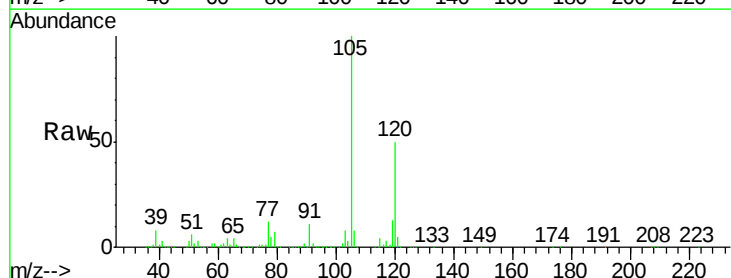
Acq: 15 May 2018 13:53

Tgt Ion: 105 Resp: 192015

Ion Ratio Lower Upper

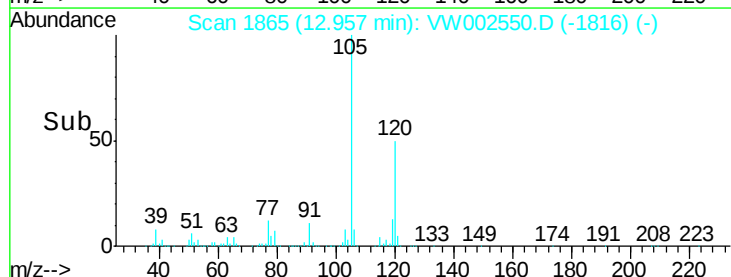
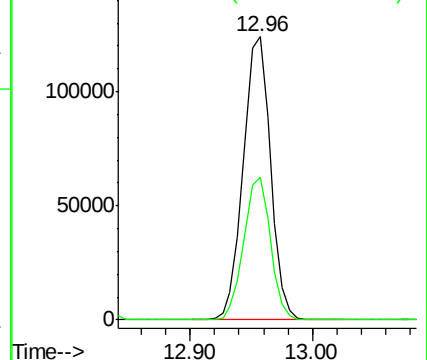
105 100

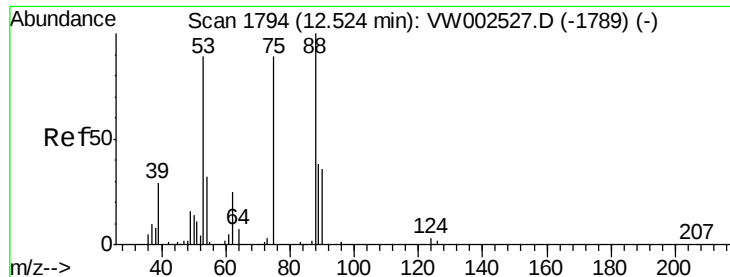
120 49.3 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 20.11 ug/l

RT: 12.52 min Scan# 1794

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBS02

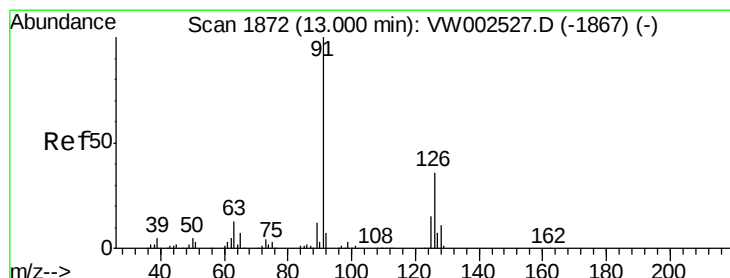
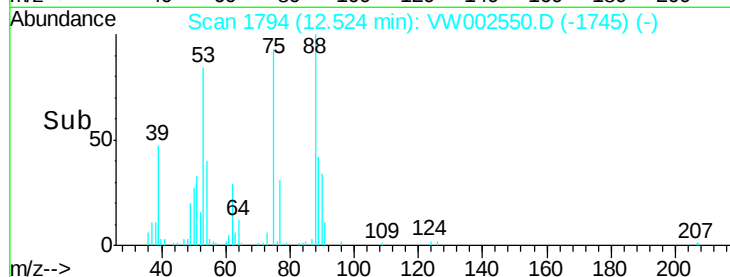
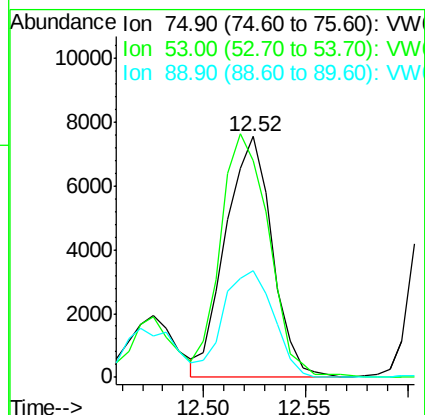
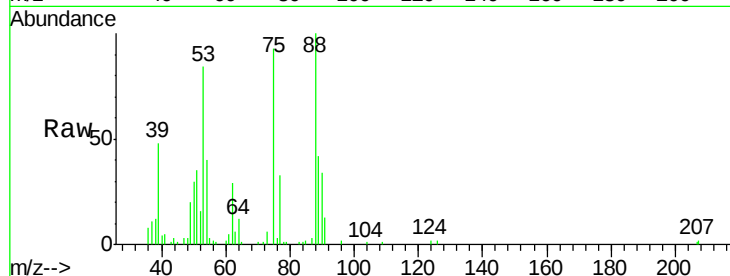
Tgt Ion: 75 Resp: 12001

Ion Ratio Lower Upper

75 100

53 105.2 82.6 124.0

89 48.3 39.2 58.8



#82

4-Chlorotoluene

Concen: 20.70 ug/l

RT: 13.00 min Scan# 1872

Delta R.T. -0.00 min

Lab File: VW002550.D

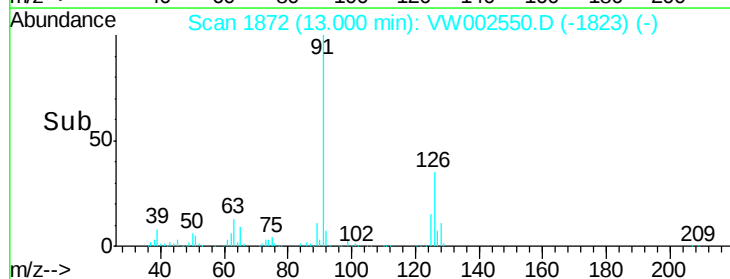
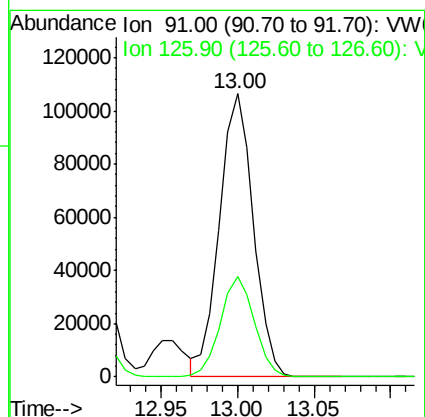
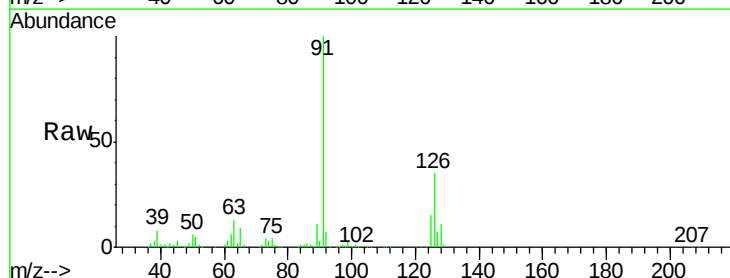
Acq: 15 May 2018 13:53

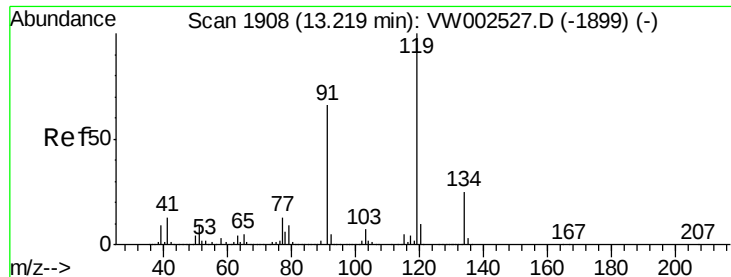
Tgt Ion: 91 Resp: 162878

Ion Ratio Lower Upper

91 100

126 35.6 17.5 52.5

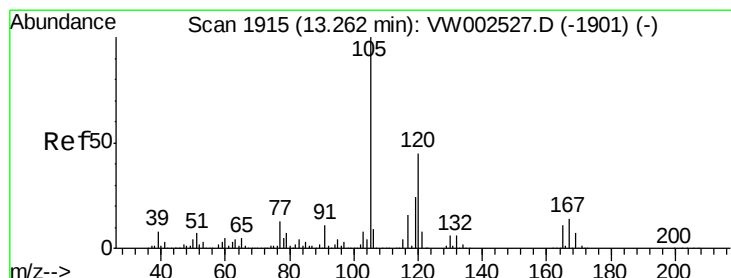
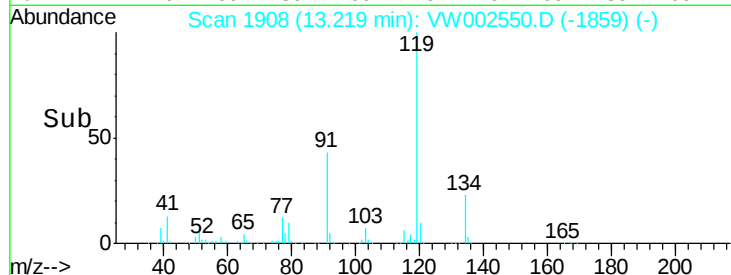
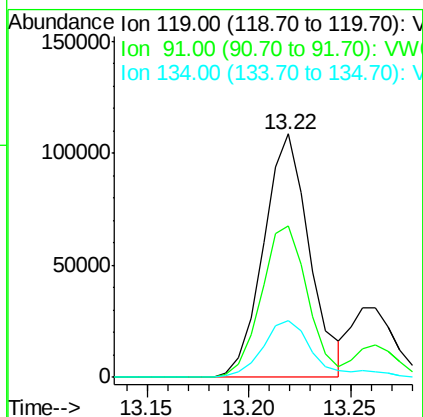
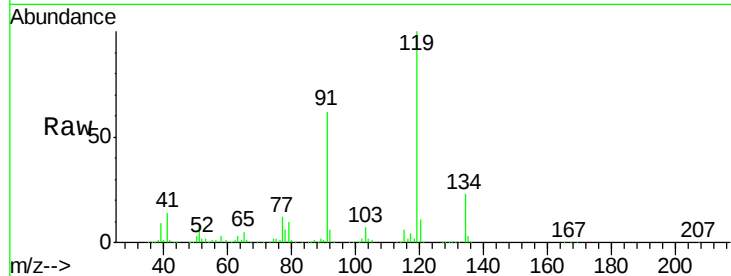




#83  
 tert-Butylbenzene  
 Concen: 21.84 ug/l  
 RT: 13.22 min Scan# 1908  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

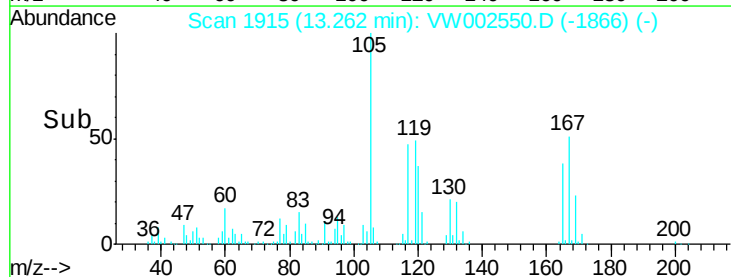
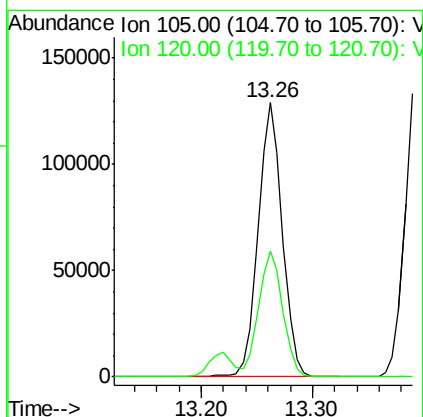
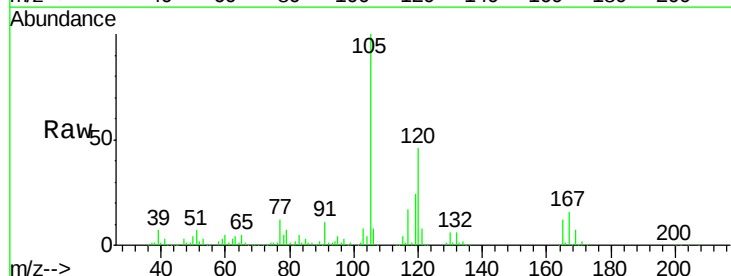
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

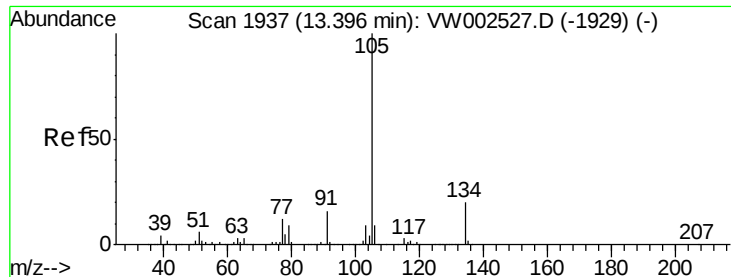
Tgt Ion:119 Resp: 170726  
 Ion Ratio Lower Upper  
 119 100  
 91 62.8 32.5 97.5  
 134 26.3 13.2 39.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.81 ug/l  
 RT: 13.26 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion:105 Resp: 195552  
 Ion Ratio Lower Upper  
 105 100  
 120 45.3 22.3 66.9

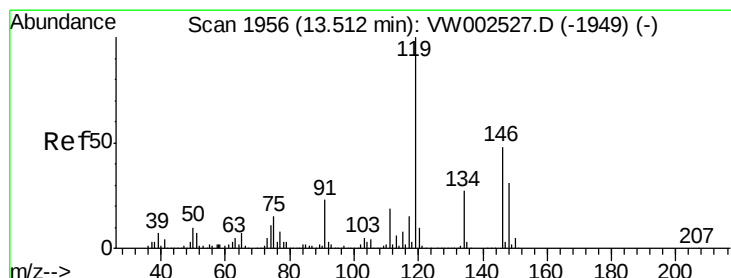
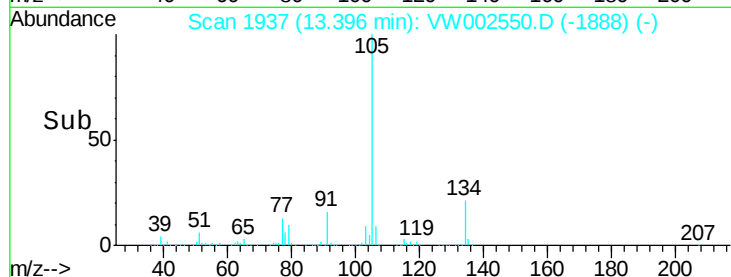
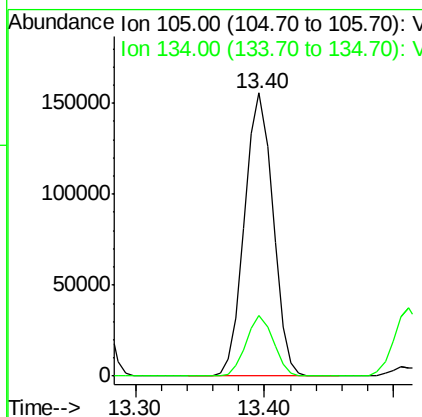
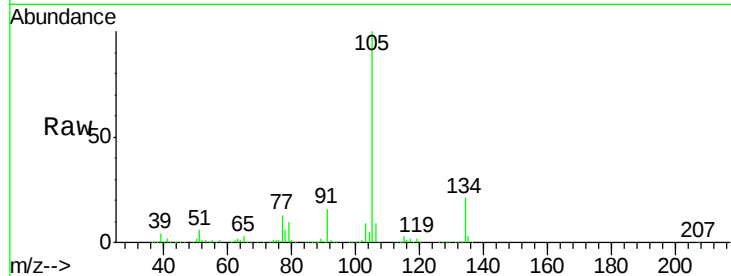




#85  
 sec-Butylbenzene  
 Concen: 21.19 ug/l  
 RT: 13.40 min Scan# 1937  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

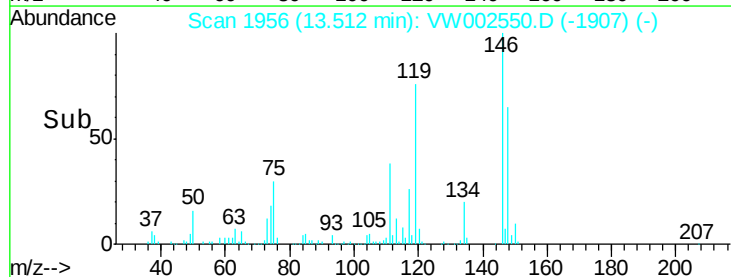
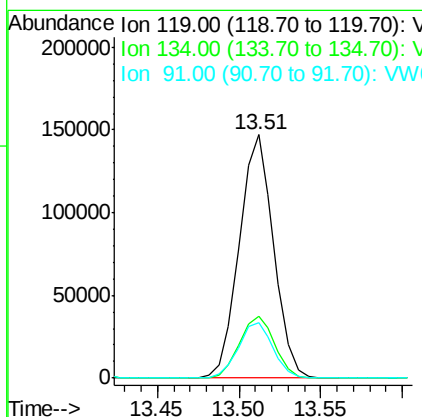
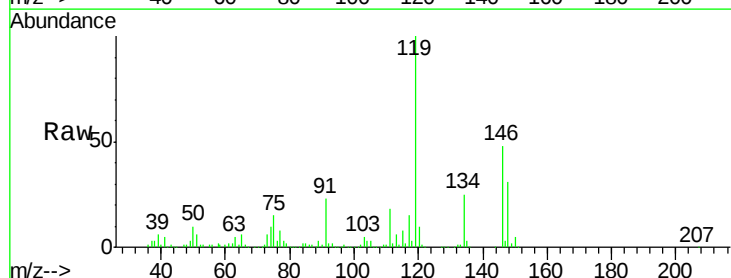
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

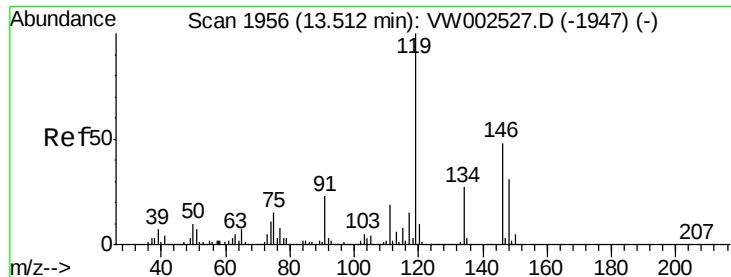
Tgt Ion:105 Resp: 238020  
 Ion Ratio Lower Upper  
 105 100  
 134 20.6 10.1 30.3



#86  
 p-Isopropyltoluene  
 Concen: 21.33 ug/l  
 RT: 13.51 min Scan# 1956  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion:119 Resp: 215502  
 Ion Ratio Lower Upper  
 119 100  
 134 26.0 13.4 40.1  
 91 23.3 11.6 34.8

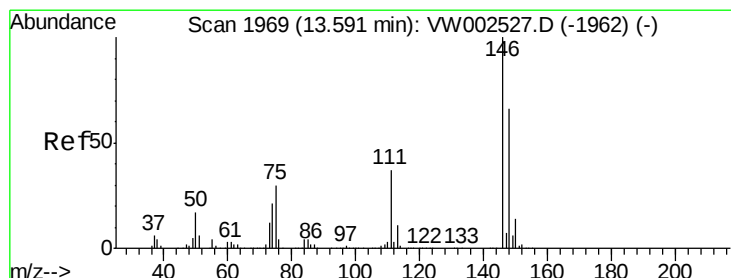
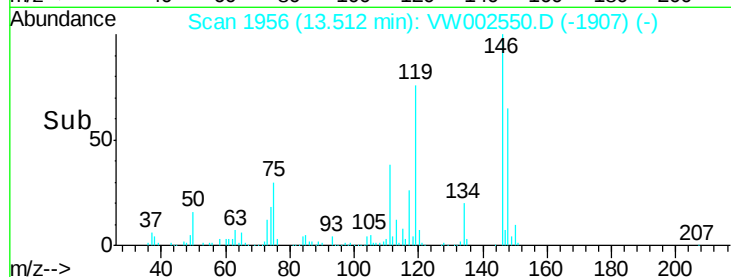
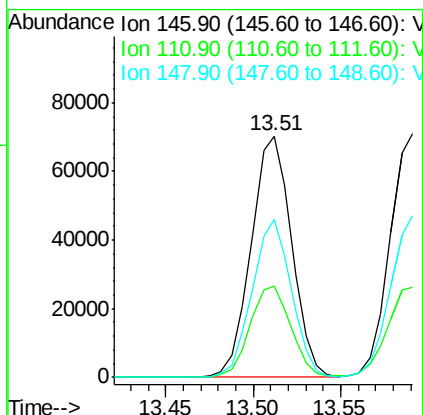
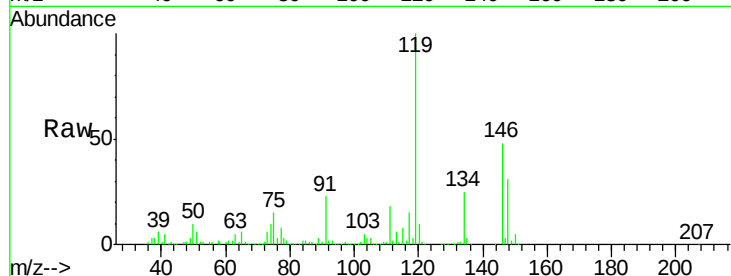




#87  
 1,3-Dichlorobenzene  
 Concen: 20.64 ug/l  
 RT: 13.51 min Scan# 1956  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

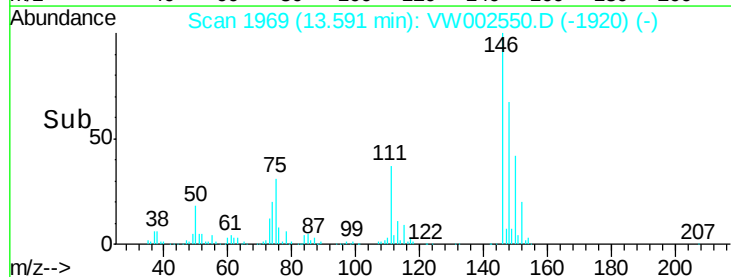
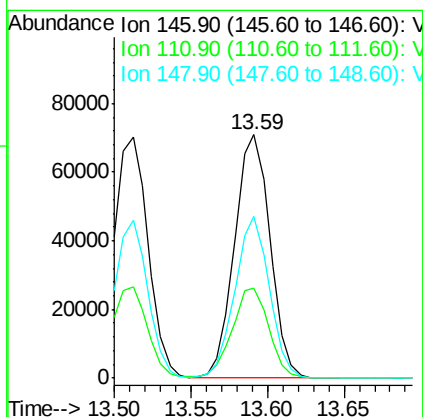
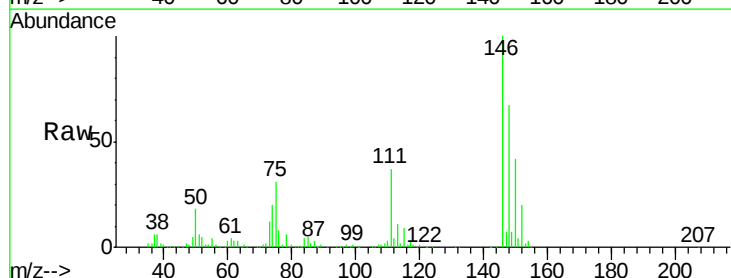
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBSD02

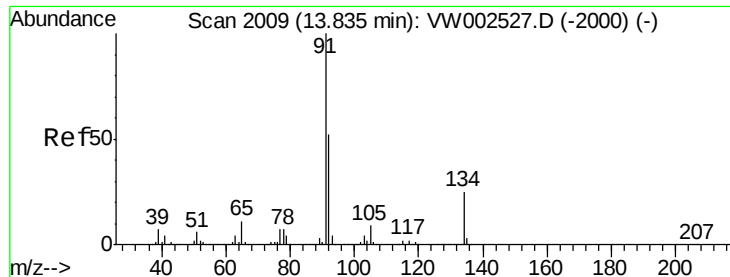
Tgt Ion:146 Resp: 113021  
 Ion Ratio Lower Upper  
 146 100  
 111 38.1 19.6 58.7  
 148 63.5 32.3 96.8



#88  
 1,4-Dichlorobenzene  
 Concen: 20.97 ug/l  
 RT: 13.59 min Scan# 1969  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion:146 Resp: 114225  
 Ion Ratio Lower Upper  
 146 100  
 111 38.2 18.9 56.5  
 148 64.5 32.4 97.0





#89

n-Butylbenzene

Concen: 21.53 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

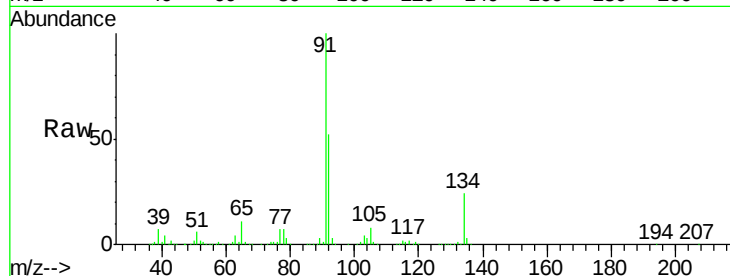
Tgt Ion: 91 Resp: 205823

Ion Ratio Lower Upper

91 100

92 51.5 26.1 78.2

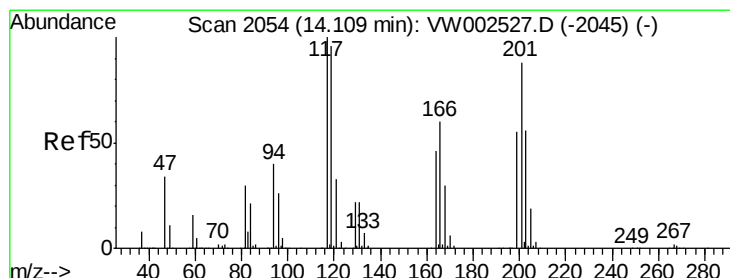
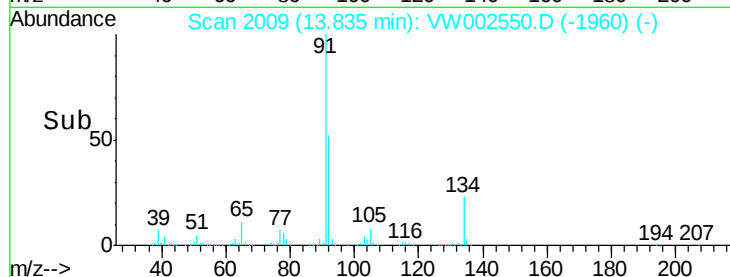
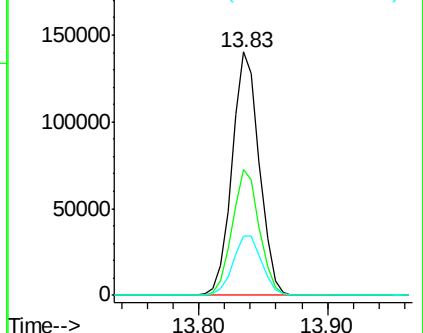
134 25.7 13.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.62 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. -0.01 min

Lab File: VW002550.D

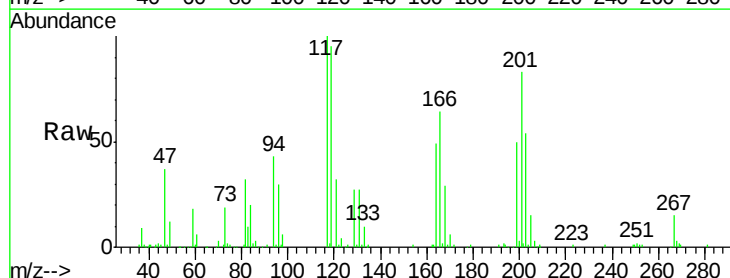
Acq: 15 May 2018 13:53

Tgt Ion: 117 Resp: 37317

Ion Ratio Lower Upper

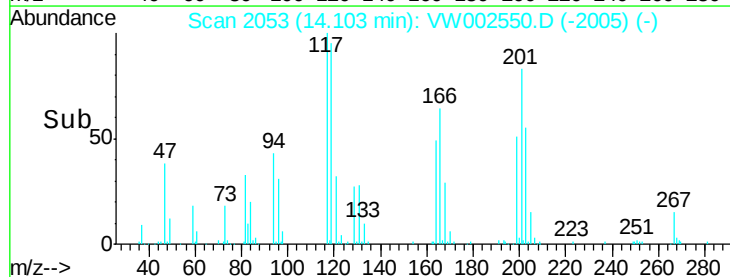
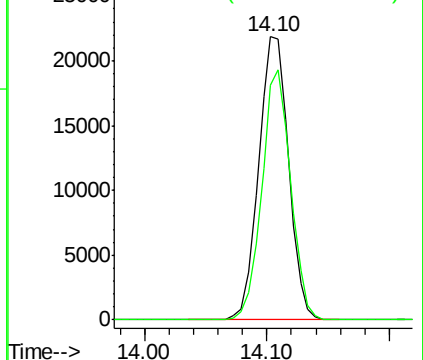
117 100

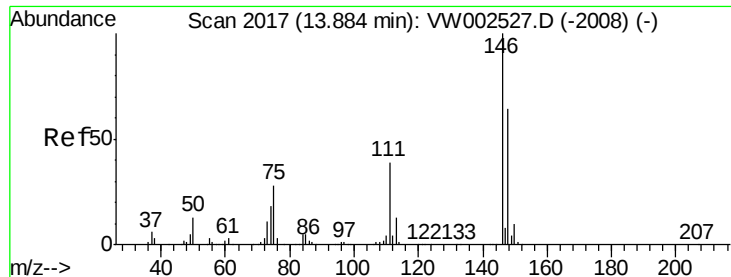
201 84.5 42.0 126.0



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 20.22 ug/l

RT: 13.88 min Scan# 2017

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBSD02

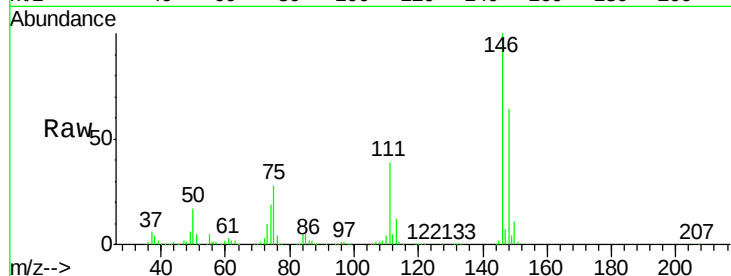
Tgt Ion:146 Resp: 100451

Ion Ratio Lower Upper

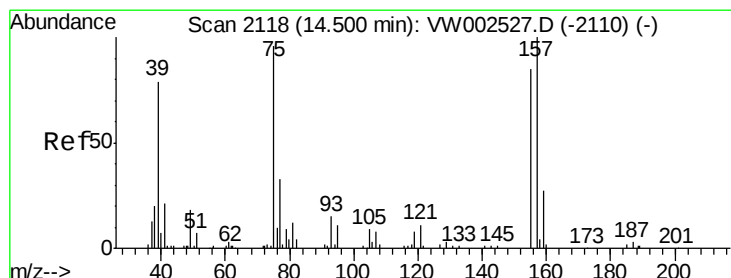
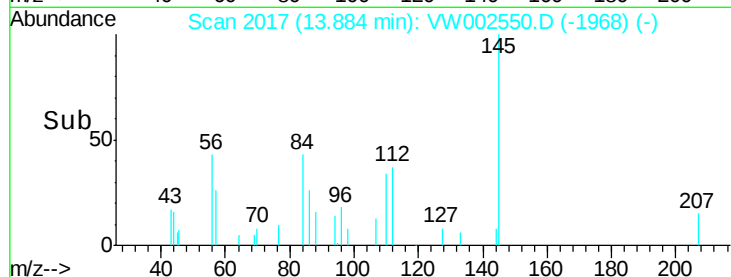
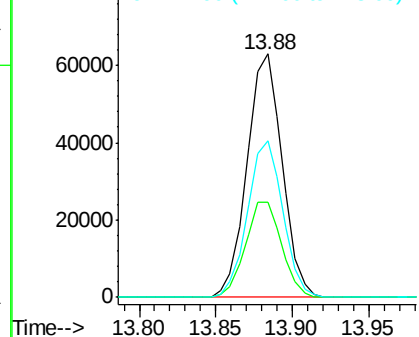
146 100

111 40.6 19.9 59.6

148 64.3 32.1 96.3



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.78 ug/l

RT: 14.49 min Scan# 2117

Delta R.T. -0.01 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

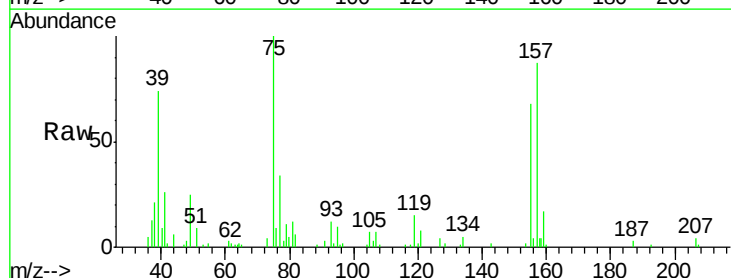
Tgt Ion: 75 Resp: 7501

Ion Ratio Lower Upper

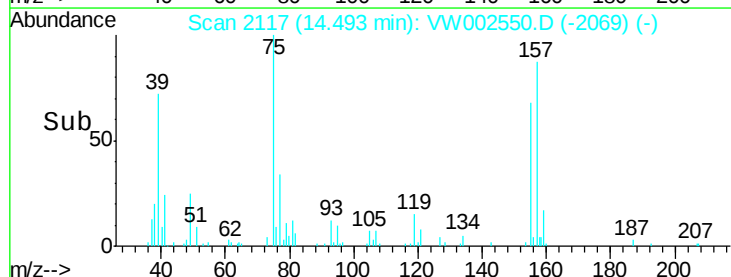
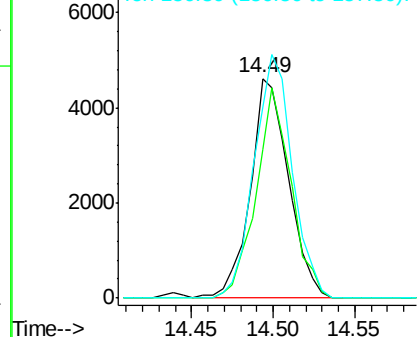
75 100

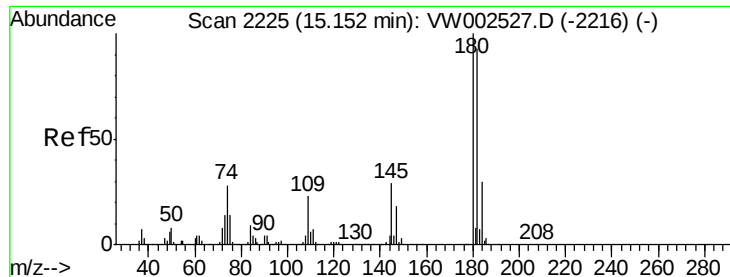
155 87.8 42.8 128.4

157 110.6 57.4 172.0



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 154.80 (154.50 to 155.50): V  
Ion 156.80 (156.50 to 157.50): V

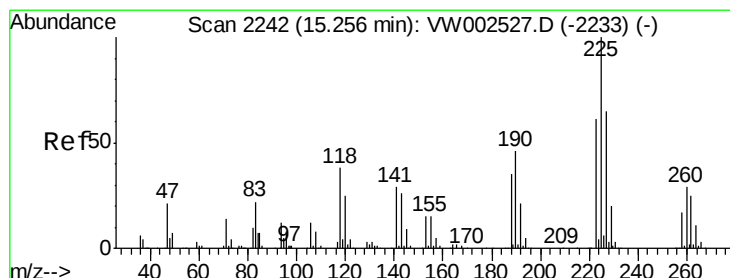
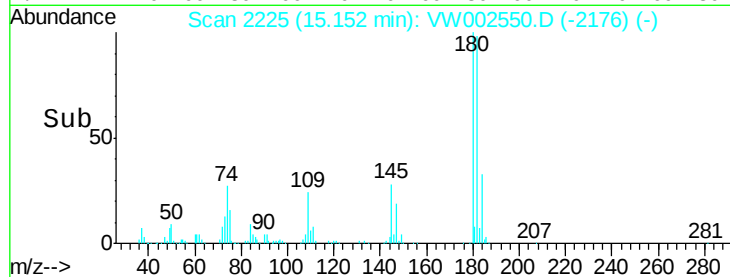
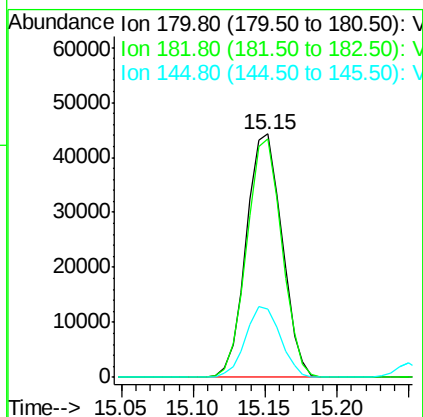
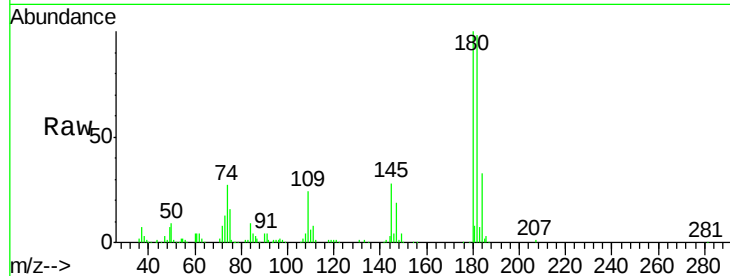




#93  
 1,2,4-Trichlorobenzene  
 Concen: 21.01 ug/l  
 RT: 15.15 min Scan# 2225  
 Delta R.T. -0.00 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

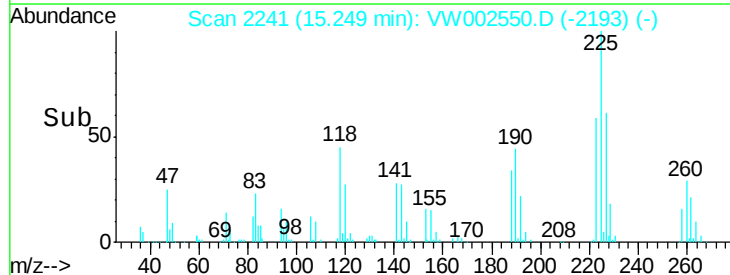
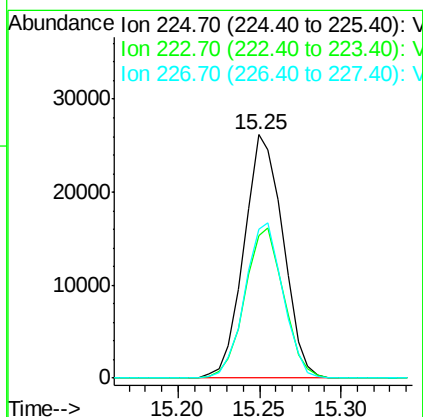
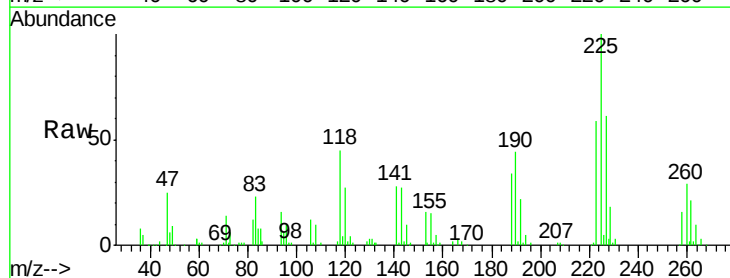
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0515SBS02

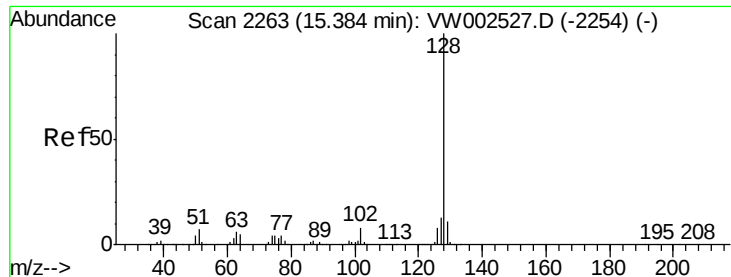
Tgt Ion:180 Resp: 75985  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 47.2 141.6  
 145 28.6 14.9 44.9



#94  
 Hexachlorobutadiene  
 Concen: 21.65 ug/l  
 RT: 15.25 min Scan# 2241  
 Delta R.T. -0.01 min  
 Lab File: VW002550.D  
 Acq: 15 May 2018 13:53

Tgt Ion:225 Resp: 43564  
 Ion Ratio Lower Upper  
 225 100  
 223 61.7 31.3 93.9  
 227 62.3 31.9 95.5





#95

Naphthalene

Concen: 19.99 ug/l

RT: 15.38 min Scan# 2263

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

VW0515SBS02

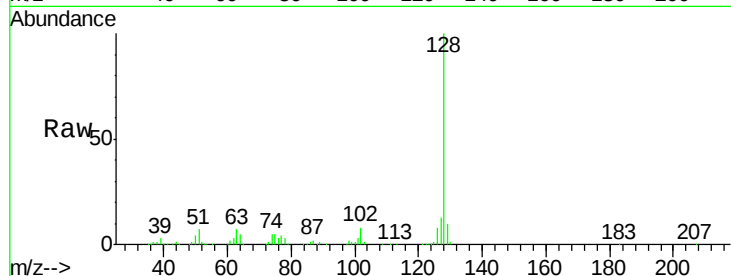
Tgt Ion:128 Resp: 131454

Ion Ratio Lower Upper

128 100

127 13.8 10.6 15.8

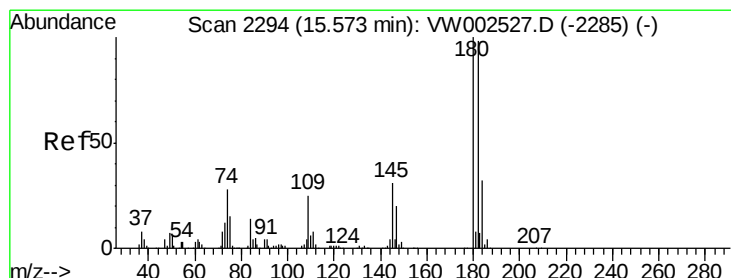
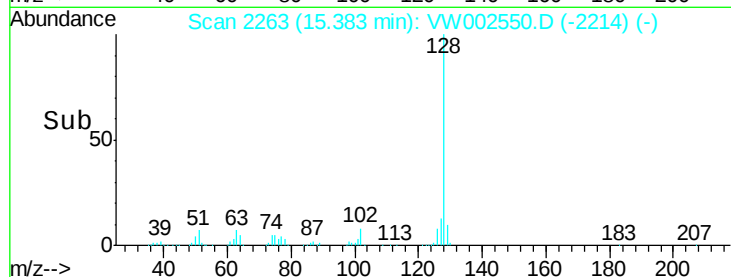
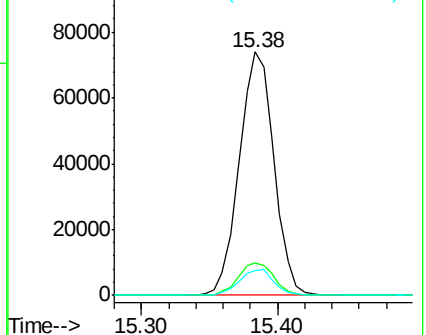
129 11.0 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 21.06 ug/l

RT: 15.57 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VW002550.D

Acq: 15 May 2018 13:53

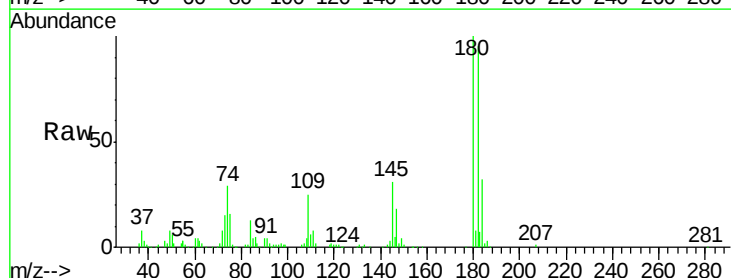
Tgt Ion:180 Resp: 68150

Ion Ratio Lower Upper

180 100

182 95.9 47.3 141.8

145 30.9 15.5 46.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

