

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090418\  
 Data File : VW005121.D  
 Acq On : 05 Sep 2018 10:38  
 Operator : SY/AP  
 Sample : J4712-13  
 Misc : 6.47G/5ML/MSVOA W/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 05 11:20:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 01 03:35:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 500853   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 768904   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 422382   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 123220   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 146869   | 35.37 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 70.74% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 99674    | 22.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 44.86% |      |
| 50) Toluene-d8            | 10.33  | 98  | 342045   | 16.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 33.42% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 112088   | 15.53 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 31.06% |      |

## Target Compounds

|                                |       |     |         |           | Qvalue     |
|--------------------------------|-------|-----|---------|-----------|------------|
| 5) Bromomethane                | 2.78  | 94  | 1156    | Below Cal | # 26       |
| 10) Methyl Iodide              | 4.28  | 142 | 223     | 3.850     | ug/l # 68  |
| 11) Tert butyl alcohol         | 5.19  | 59  | 5415    | Below Cal | # 92       |
| 15) Acrylonitrile              | 5.39  | 53  | 2835    | 2.899     | ug/l # 92  |
| 16) Acetone                    | 4.14  | 43  | 71040   | 85.318    | ug/l 99    |
| 17) Carbon Disulfide           | 4.39  | 76  | 26133   | 1.852     | ug/l 96    |
| 18) Methyl Acetate             | 4.69  | 43  | 8713    | 3.557     | ug/l 95    |
| 20) Methylene Chloride         | 4.92  | 84  | 51238   | 5.657     | ug/l 97    |
| 25) 2-Butanone                 | 7.19  | 43  | 10859   | 7.519     | ug/l # 89  |
| 29) Tetrahydrofuran            | 7.53  | 42  | 1141    | 1.546     | ug/l # 54  |
| 31) Cyclohexane                | 7.93  | 56  | 254290  | 31.185    | ug/l # 42  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 34141   | 4.662     | ug/l # 47  |
| 37) Ethyl Acetate              | 7.19  | 43  | 10859   | 3.965     | ug/l # 66  |
| 38) Carbon Tetrachloride       | 7.96  | 117 | 43813   | 6.292     | ug/l # 16  |
| 39) Methylcyclohexane          | 9.34  | 83  | 97023   | 10.956    | ug/l 91    |
| 43) Isopropyl Acetate          | 8.42  | 43  | 152182  | 30.538    | ug/l # 48  |
| 48) Methyl methacrylate        | 9.48  | 41  | 5172    | 2.155     | ug/l # 18  |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43  | 19125   | 5.726     | ug/l 98    |
| 52) Toluene                    | 10.40 | 92  | 220706  | 14.530    | ug/l 98    |
| 55) 1,1,2-Trichloroethane      | 10.77 | 97  | 121243  | 29.902    | ug/l # 23  |
| 56) Ethyl methacrylate         | 10.67 | 69  | 18697   | 4.042     | ug/l # 13  |
| 59) 2-Hexanone                 | 10.94 | 43  | 79555   | 35.217    | ug/l # 28  |
| 67) Ethyl Benzene              | 11.74 | 91  | 2336388 | 145.343   | ug/l 100   |
| 68) m/p-Xylenes                | 11.84 | 106 | 4235193 | 658.010   | ug/l 99    |
| 69) o-Xylene                   | 12.17 | 106 | 1593815 | 267.832   | ug/l 100   |
| 70) Styrene                    | 12.17 | 104 | 83461   | 8.490     | ug/l # 1   |
| 73) Isopropylbenzene           | 12.48 | 105 | 38082   | 4.383     | ug/l 94    |
| 74) N-amyl acetate             | 12.26 | 43  | 72135   | 48.218    | ug/l # 64  |
| 75) 1,1,2,2-Tetrachloroethane  | 12.66 | 83  | 7869    | 5.949     | ug/l # 35  |
| 76) 1,2,3-Trichloropropane     | 12.73 | 75  | 1669    | 1.804     | ug/l # 100 |
| 78) n-propylbenzene            | 12.81 | 91  | 19582   | 1.867     | ug/l 98    |
| 79) 2-Chlorotoluene            | 12.87 | 91  | 6445    | 1.053     | ug/l # 46  |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105 | 46541   | 6.194     | ug/l 90    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 50955   | 132.599   | ug/l # 15  |

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 MSVOA\_W  
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 Quant Title : SW846 8260  
 QLast Update : Sat Sep 01 03:35:05 2018  
 Response via : Initial Calibration

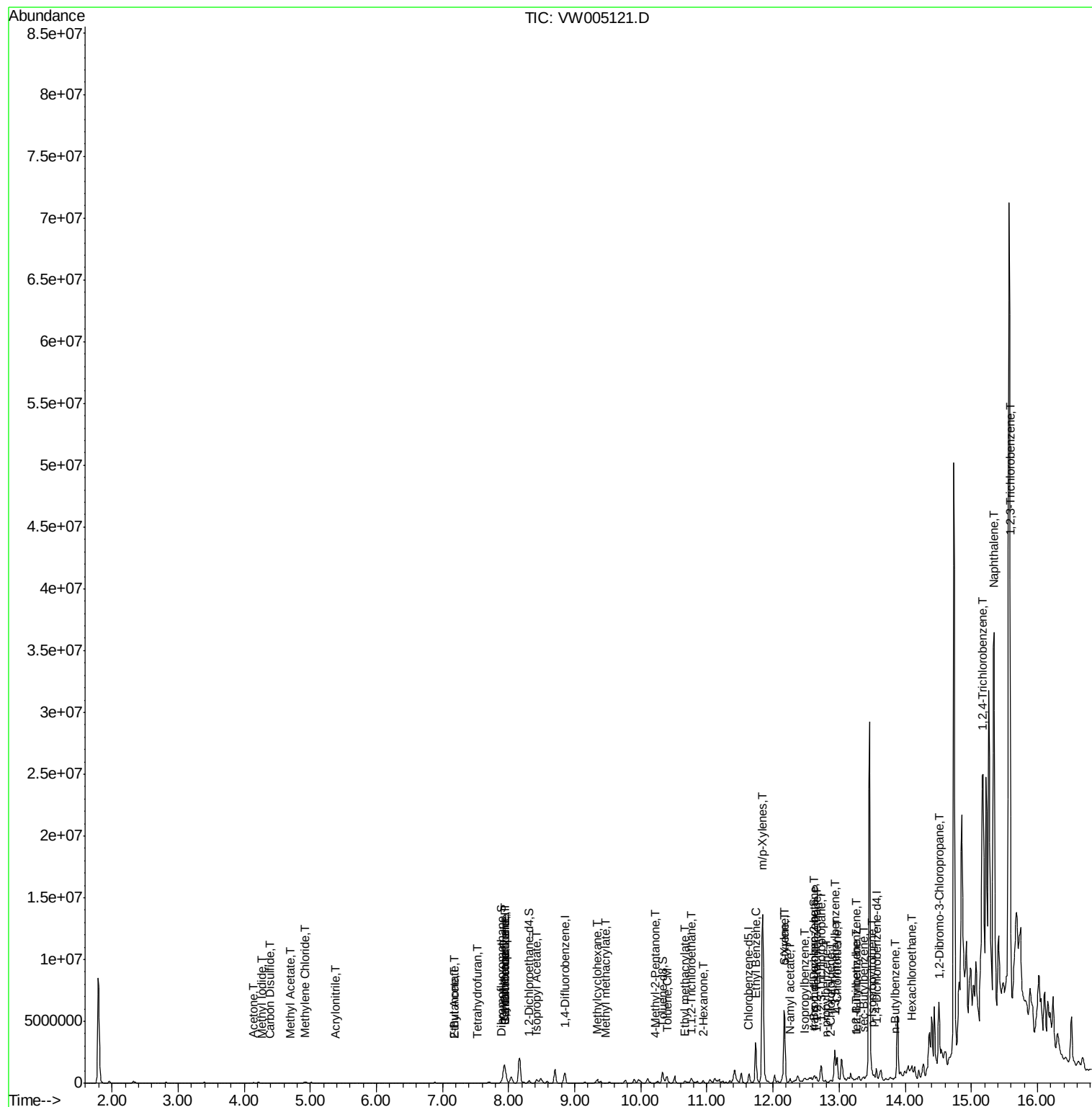
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 82) 4-Chlorotoluene            | 12.97 | 91   | 59109    | 9.148  | ug/l # | 40       |
| 83) tert-Butylbenzene          | 13.26 | 119  | 15948    | 2.542  | ug/l # | 1        |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 95791    | 12.519 | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.37 | 105  | 28065    | 3.044  | ug/l # | 64       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 155055   | 18.996 | ug/l # | 79       |
| 89) n-Butylbenzene             | 13.83 | 91   | 15580    | 2.060  | ug/l # | 80       |
| 90) Hexachloroethane           | 14.10 | 117  | 5533     | 4.081  | ug/l # | 5        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 854      | 4.132  | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 15.18 | 180  | 21167    | 8.236  | ug/l # | 19       |
| 95) Naphthalene                | 15.34 | 128  | 24026    | 8.957  | ug/l # | 1        |
| 96) 1,2,3-Trichlorobenzene     | 15.59 | 180  | 87729    | 39.887 | ug/l # | 12       |

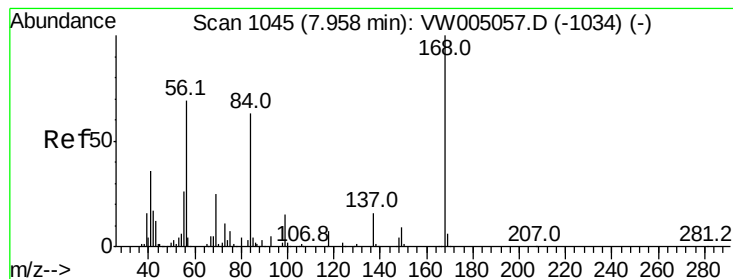
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090418\  
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Sample : J4712-13  
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QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

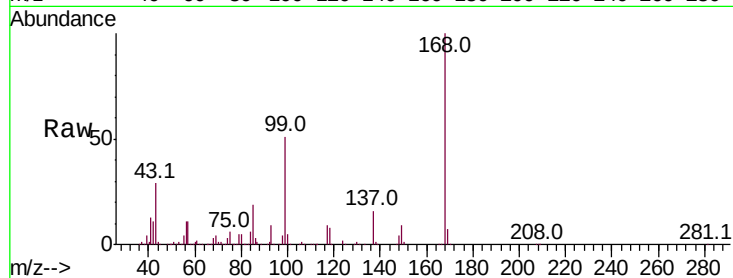
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 500853

Ion Ratio Lower Upper

168 100

99 51.1 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

250000

200000

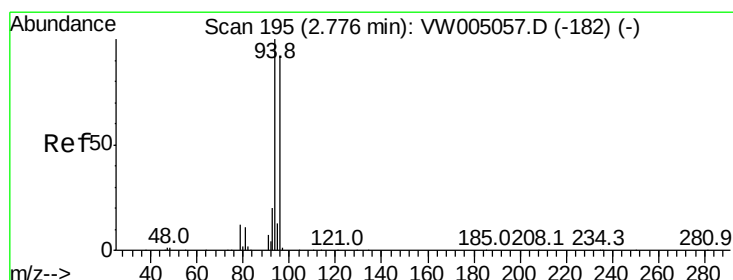
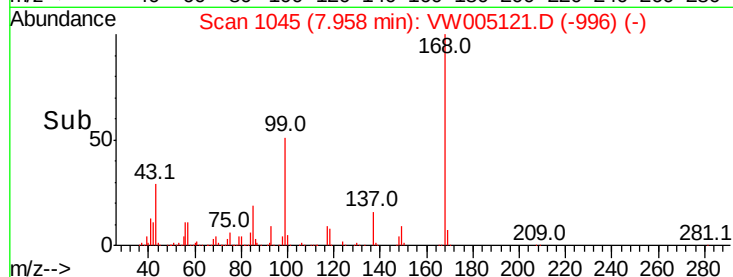
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 195

Delta R.T. -0.00 min

Lab File: VW005121.D

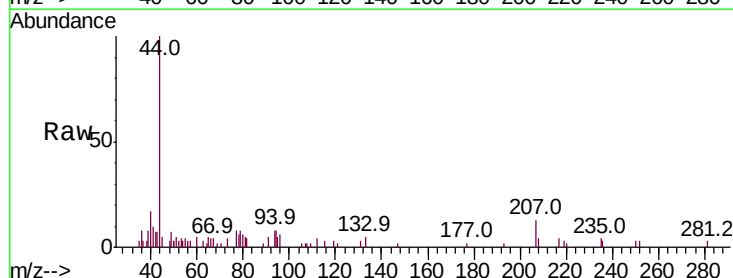
Acq: 05 Sep 2018 10:38

Tgt Ion: 94 Resp: 1156

Ion Ratio Lower Upper

94 100

96 21.2 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.78

500

400

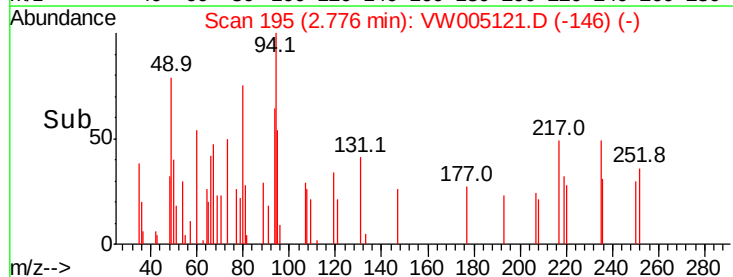
300

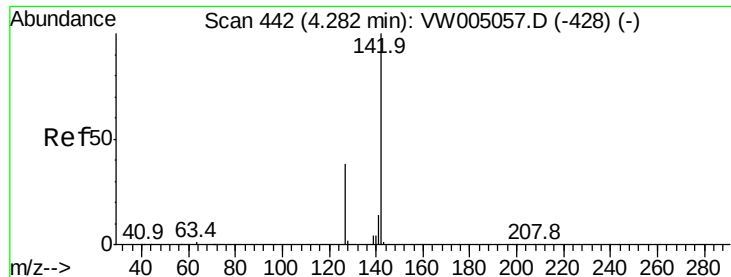
200

100

0

Time-->

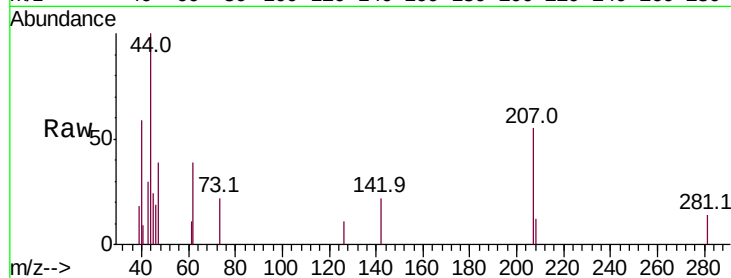




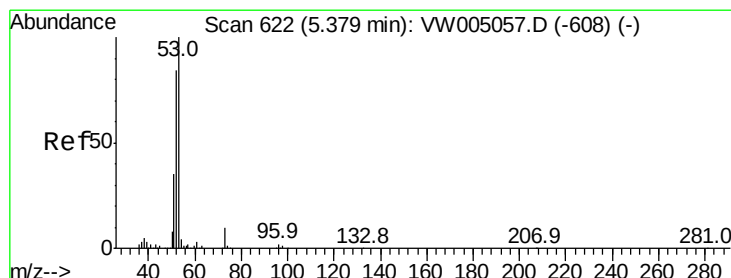
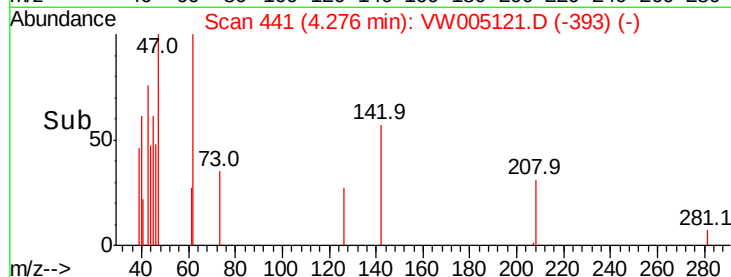
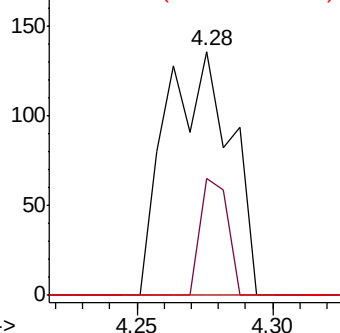
#10  
Methvl Iodide  
Concen: 3.850 ug/l  
RT: 4.28 min Scan# 441  
Delta R.T. -0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:142 Resp: 223  
Ion Ratio Lower Upper  
142 100  
127 20.2 30.8 46.2#  
141 0.0 11.6 17.4#

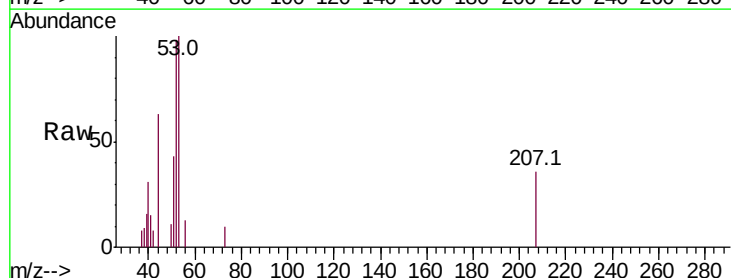


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

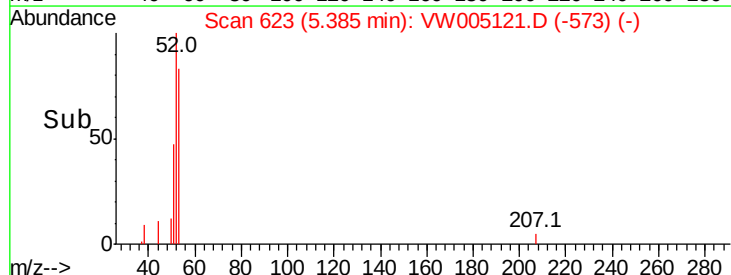
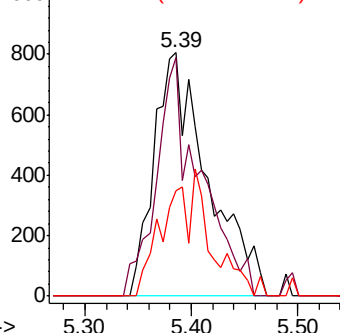


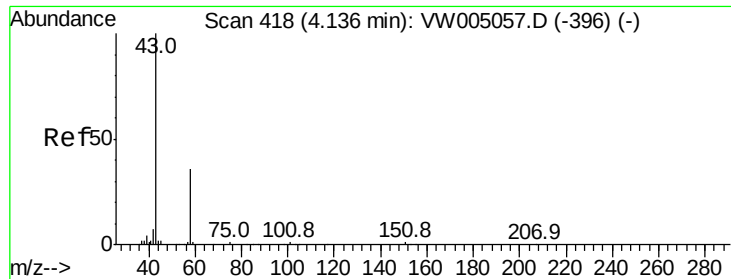
#15  
Acrylonitrile  
Concen: 2.899 ug/l  
RT: 5.39 min Scan# 623  
Delta R.T. 0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion: 53 Resp: 2835  
Ion Ratio Lower Upper  
53 100  
52 80.1 65.7 98.5  
51 23.8 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VW  
Ion 52.00 (51.70 to 52.70): VW  
Ion 51.00 (50.70 to 51.70): VW

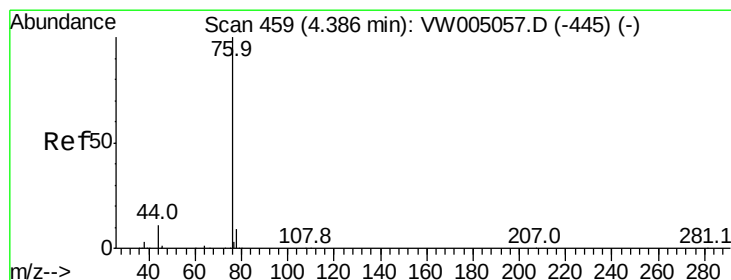
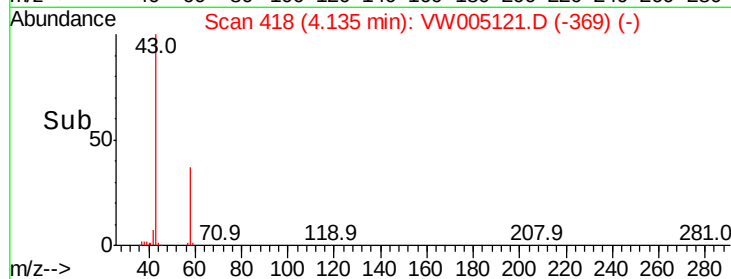
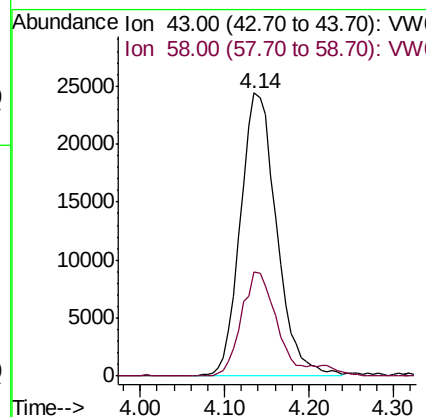
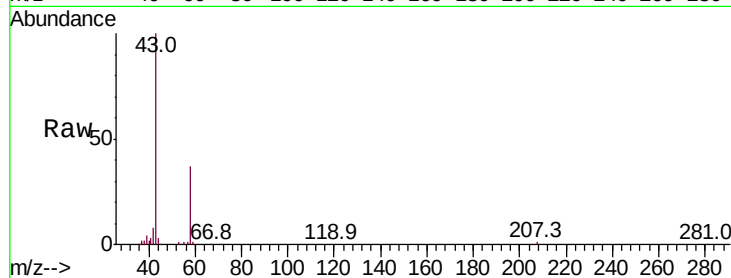




#16  
Acetone  
Concen: 85.318 ug/l  
RT: 4.14 min Scan# 418  
Delta R.T. -0.00 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

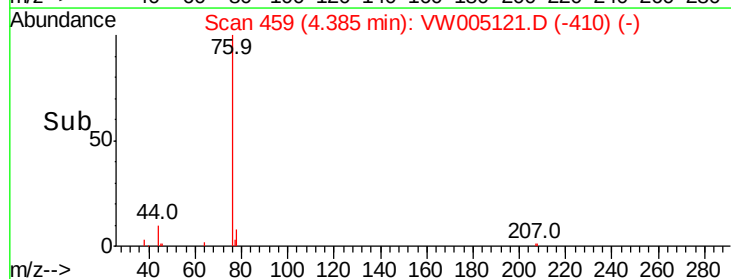
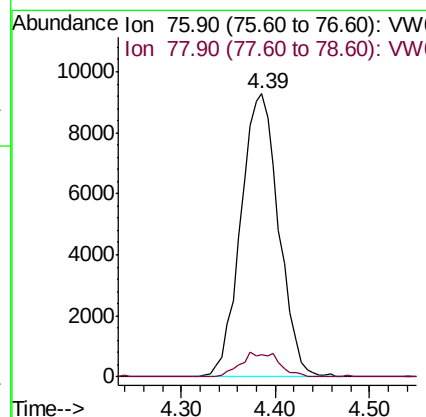
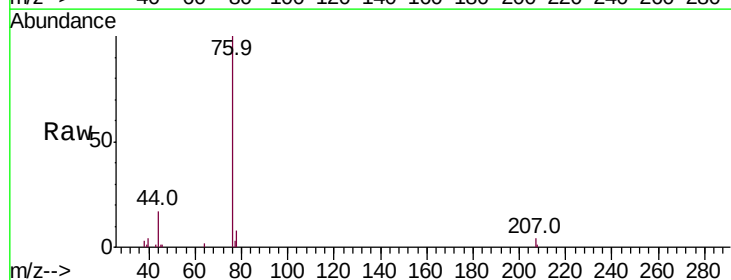
Instrument :  
MSVOA\_W  
ClientSampled :

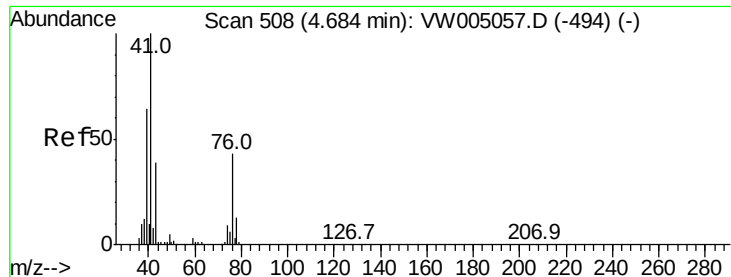
Tot Ion: 43 Resp: 71040  
Ion Ratio Lower Upper  
43 100  
58 36.9 29.0 43.6



#17  
Carbon Disulfide  
Concen: 1.852 ug/l  
RT: 4.39 min Scan# 459  
Delta R.T. -0.00 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion: 76 Resp: 26133  
Ion Ratio Lower Upper  
76 100  
78 7.7 7.3 10.9

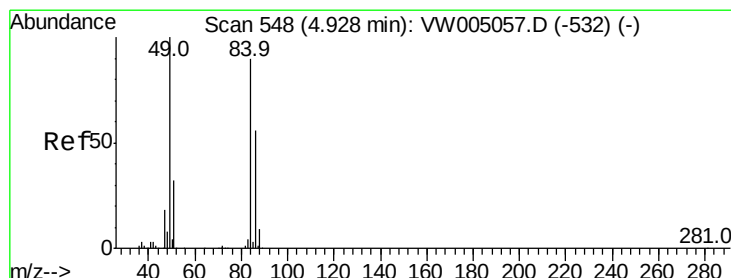
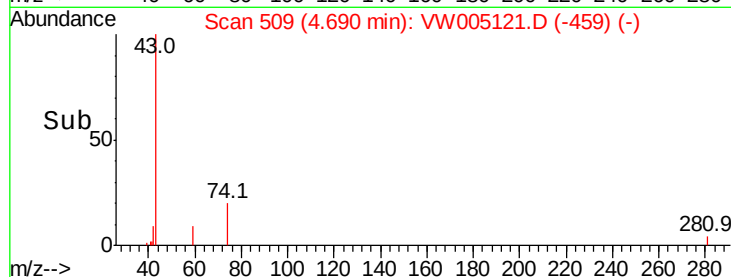
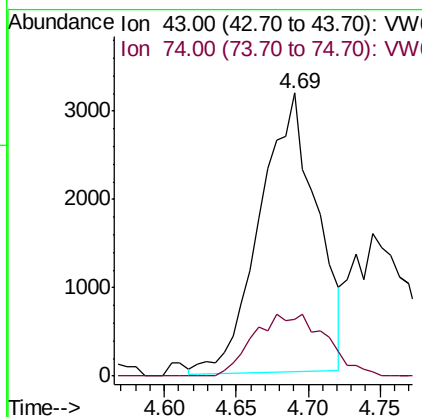
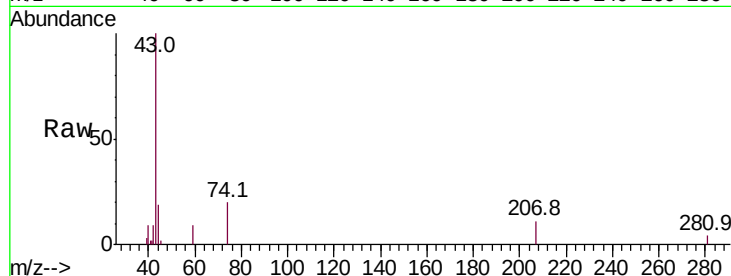




#18  
Methvl Acetate  
Concen: 3.557 ug/l  
RT: 4.69 min Scan# 509  
Delta R.T. 0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

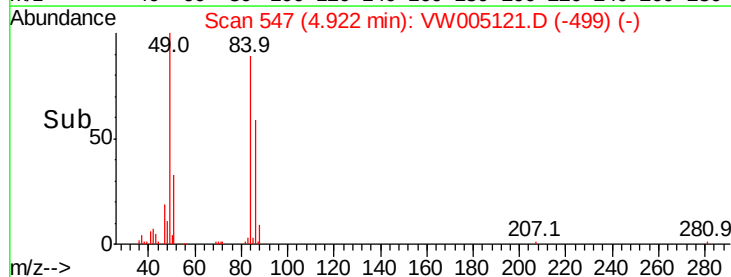
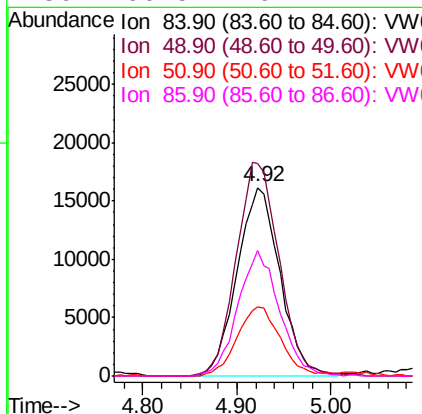
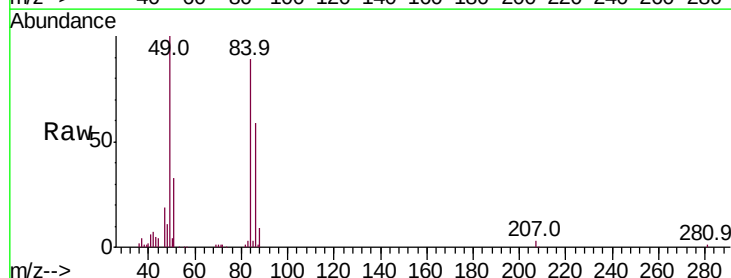
Instrument :  
MSVOA\_W  
ClientSampleId :

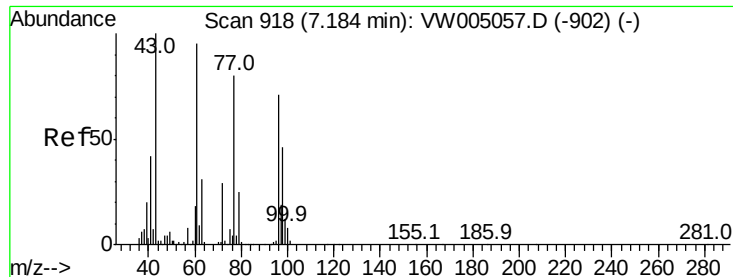
Tot Ion: 43 Resp: 8713  
Ion Ratio Lower Upper  
43 100  
74 28.2 20.7 31.1



#20  
Methylene Chloride  
Concen: 5.657 ug/l  
RT: 4.92 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion: 84 Resp: 51238  
Ion Ratio Lower Upper  
84 100  
49 112.7 88.7 133.1  
51 36.9 28.6 42.8  
86 66.5 49.4 74.2





#25

2-Butanone

Concen: 7.519 ug/l

RT: 7.19 min Scan# 919

Delta R.T. 0.01 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

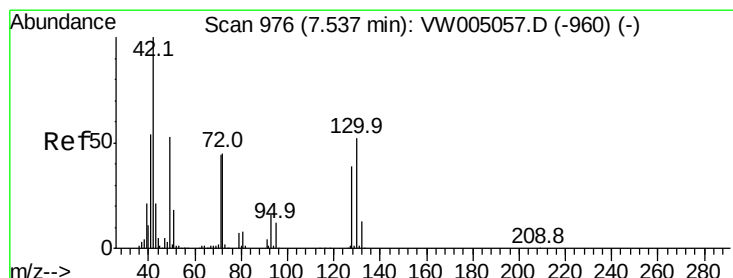
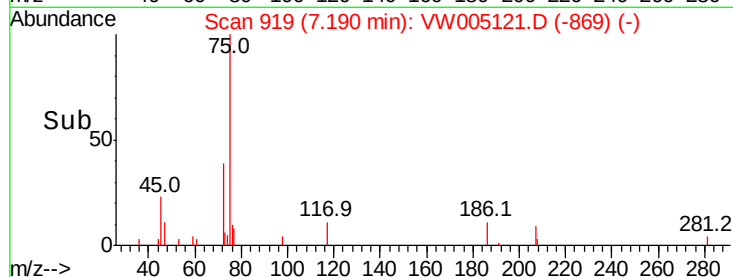
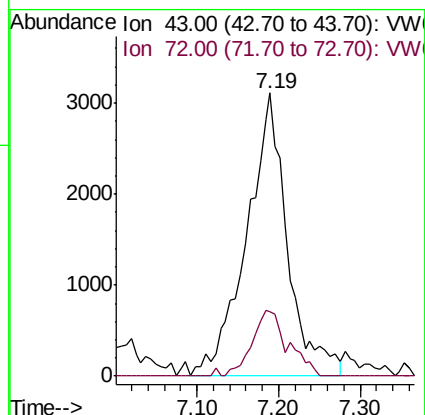
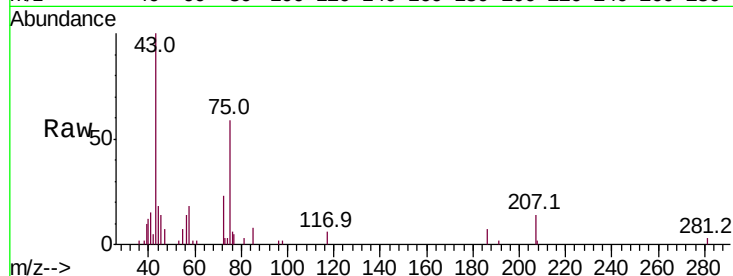
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 10859

Ion Ratio Lower Upper

43 100

72 22.8 23.1 34.7#



#29

Tetrahydrofuran

Concen: 1.546 ug/l

RT: 7.53 min Scan# 975

Delta R.T. -0.01 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

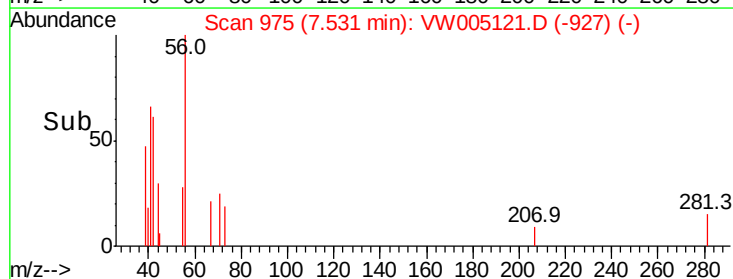
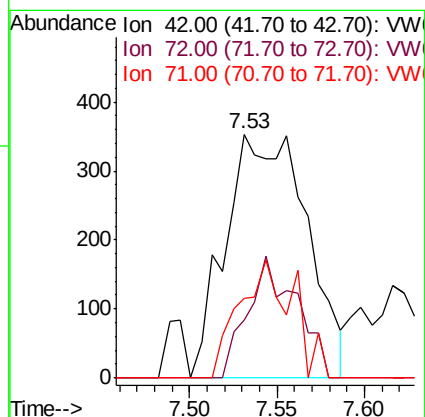
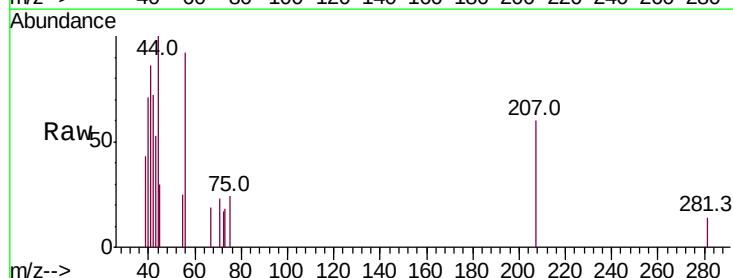
Tgt Ion: 42 Resp: 1141

Ion Ratio Lower Upper

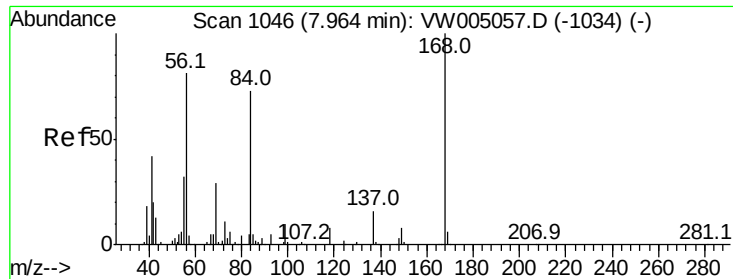
42 100

72 30.0 37.0 55.4#

71 0.0 35.0 52.6#



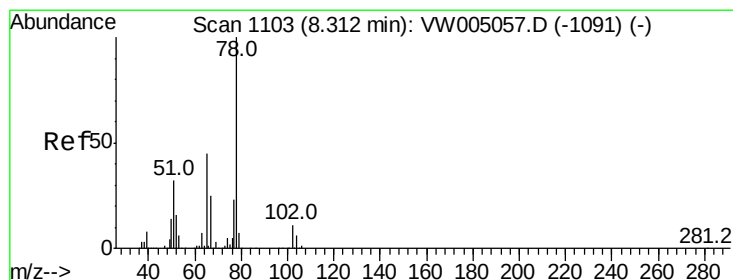
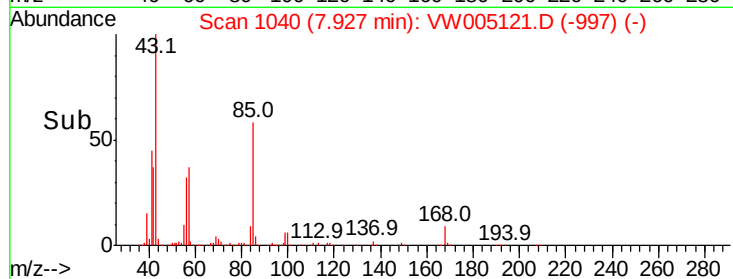
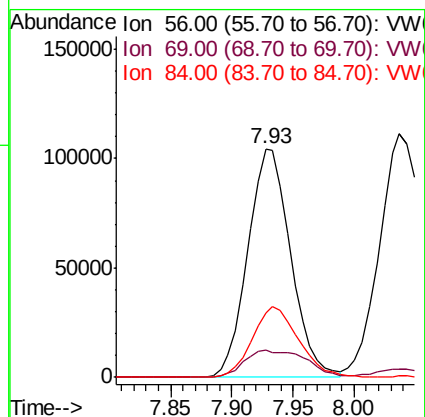
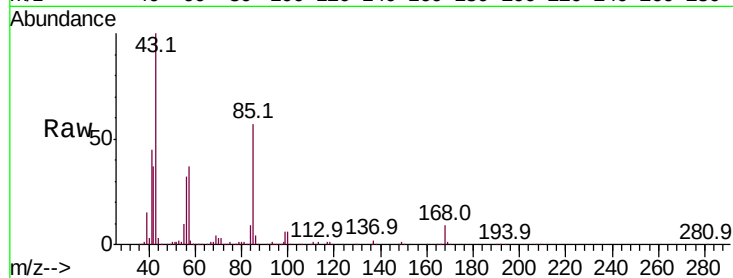




#31  
Cyclohexane  
Concen: 31.185 ug/l  
RT: 7.93 min Scan# 1040  
Delta R.T. -0.04 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

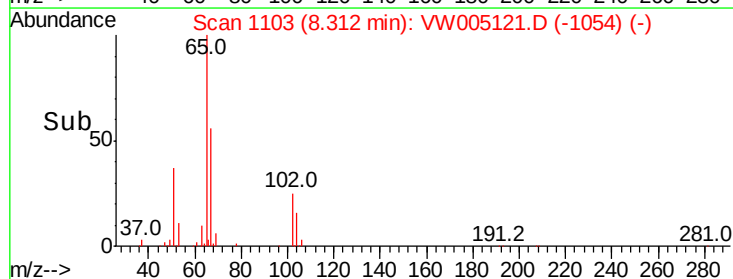
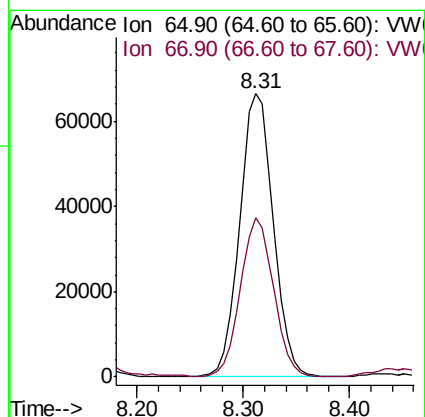
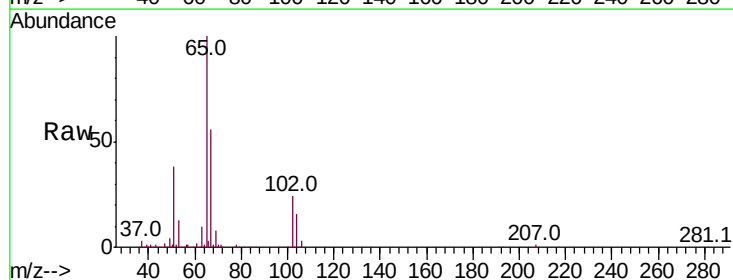
Instrument :  
MSVOA\_W  
ClientSampled :

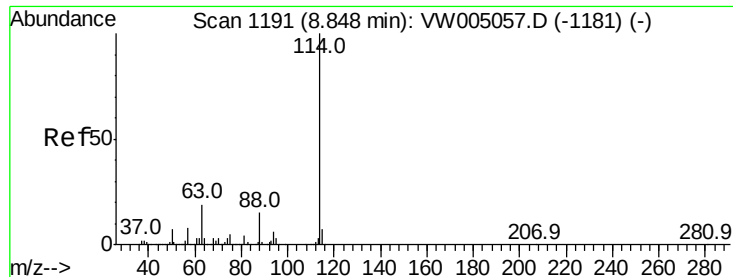
Tot Ion: 56 Resp: 254290  
Ion Ratio Lower Upper  
56 100  
69 11.7 28.2 42.2#  
84 28.2 71.8 107.8#



#33  
1,2-Dichloroethane-d4  
Concen: 35.374 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion: 65 Resp: 146869  
Ion Ratio Lower Upper  
65 100  
67 55.5 0.0 109.4

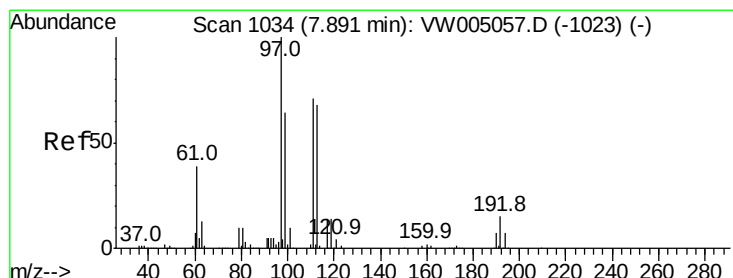
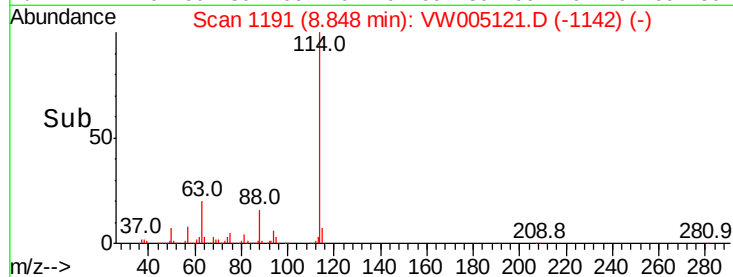
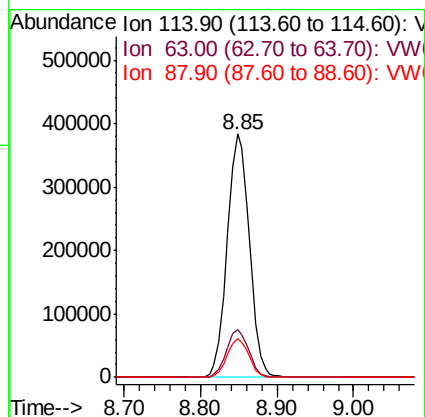
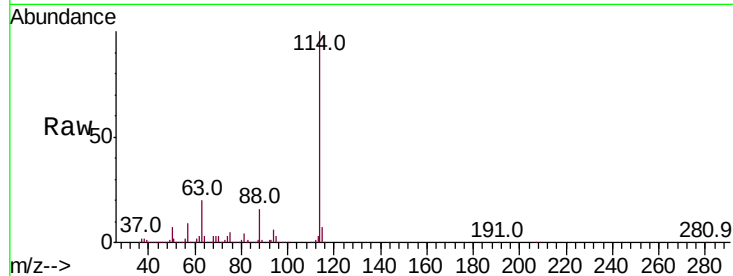




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW005121.D  
 Acq: 05 Sep 2018 10:38

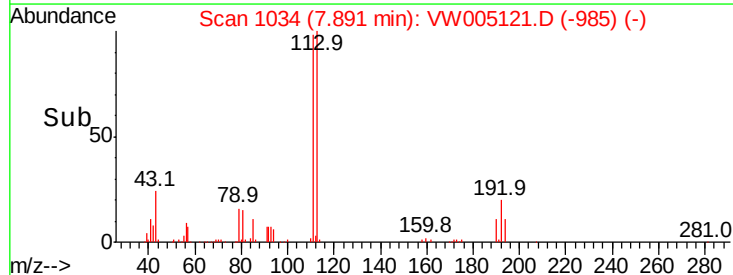
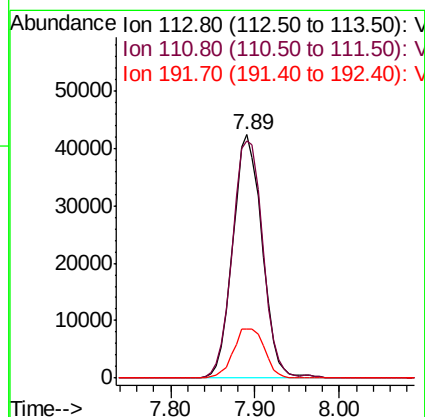
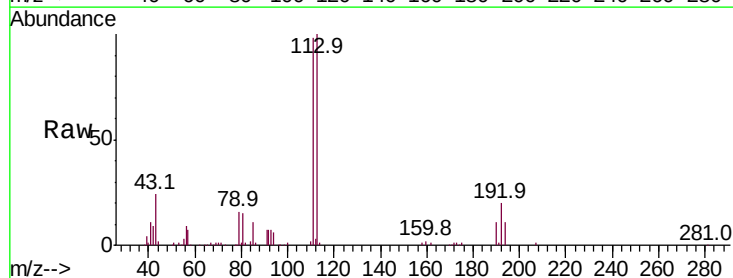
Instrument :  
 MSVOA\_W  
 ClientSampleId :

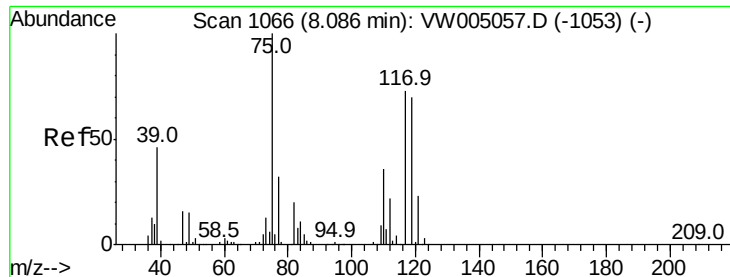
Tot Ion:114 Resp: 768904  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 38.0  
 88 15.7 0.0 30.2



#35  
 Dibromofluoromethane  
 Concen: 22.432 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. -0.00 min  
 Lab File: VW005121.D  
 Acq: 05 Sep 2018 10:38

Tgt Ion:113 Resp: 99674  
 Ion Ratio Lower Upper  
 113 100  
 111 101.3 82.2 123.2  
 192 21.7 18.1 27.1





#36

1,1-Dichloropropene

Concen: 4.662 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampled :

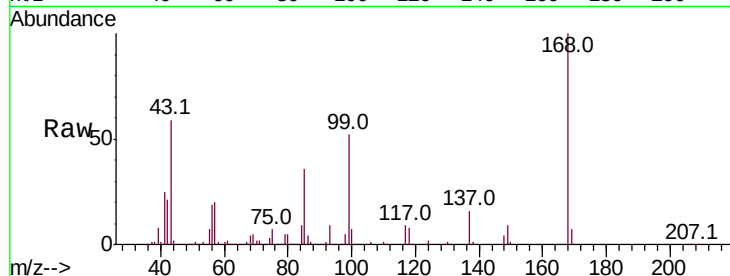
Tot Ion: 75 Resp: 34141

Ion Ratio Lower Upper

75 100

110 8.6 18.9 56.7#

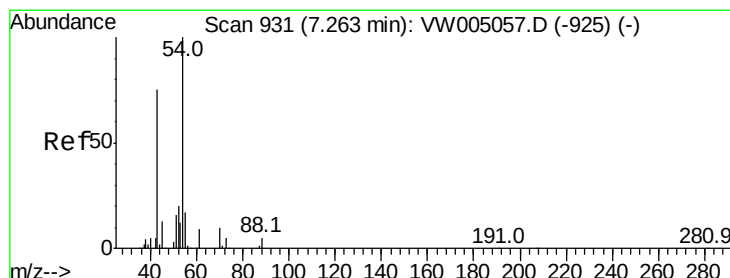
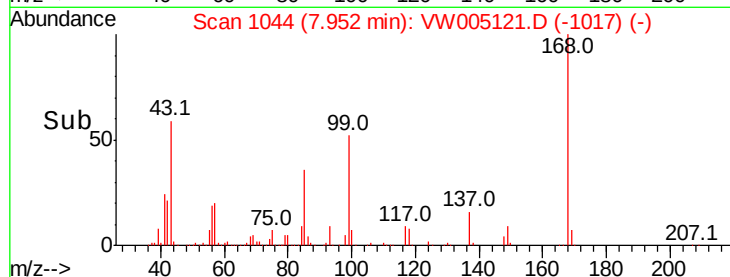
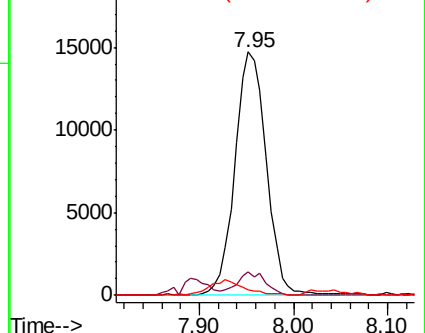
77 0.0 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 3.965 ug/l

RT: 7.19 min Scan# 919

Delta R.T. -0.07 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

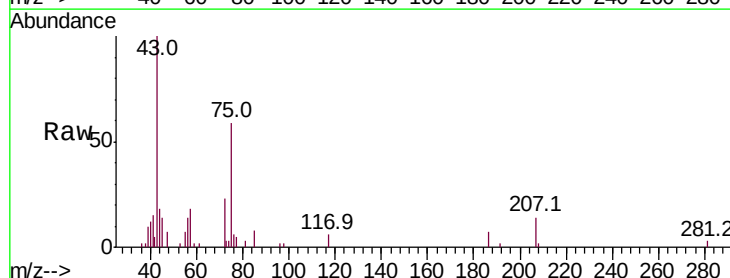
Tgt Ion: 43 Resp: 10859

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1#

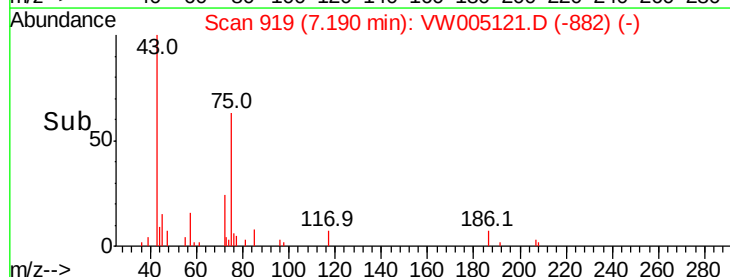
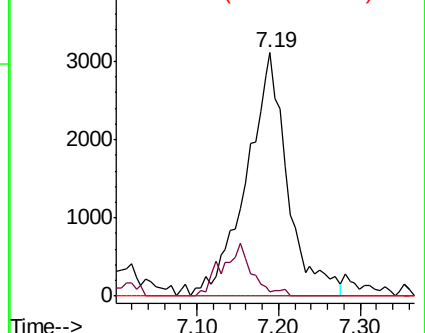
70 0.0 9.4 14.2#

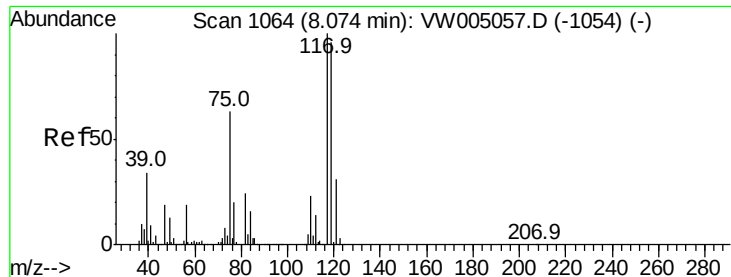


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.292 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.12 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampled :

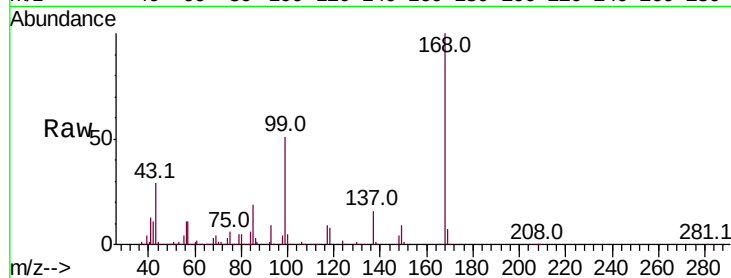
Tot Ion:117 Resp: 43813

Ion Ratio Lower Upper

117 100

119 4.9 76.6 115.0#

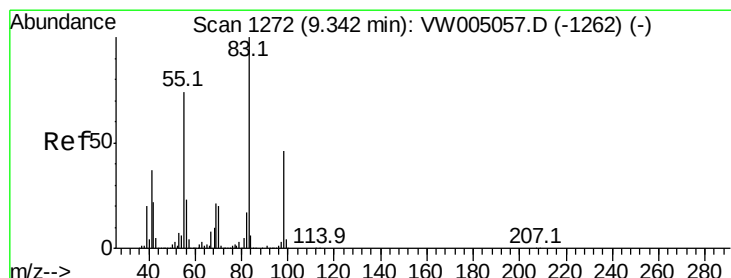
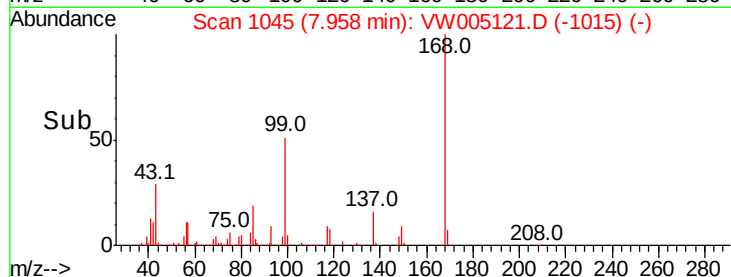
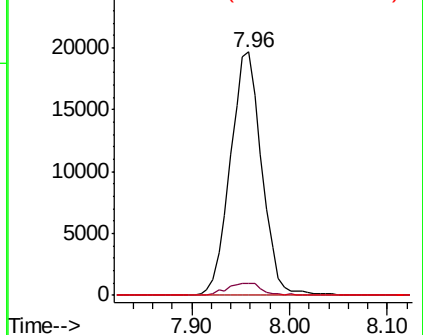
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 10.956 ug/l

RT: 9.34 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

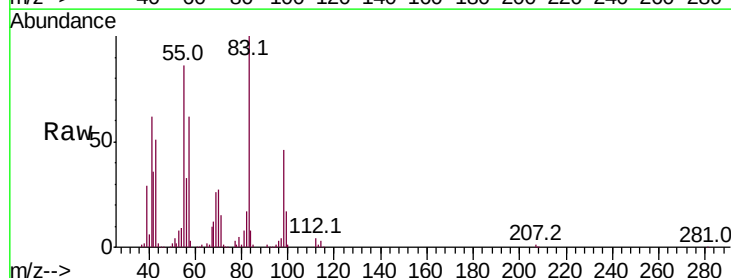
Tgt Ion: 83 Resp: 97023

Ion Ratio Lower Upper

83 100

55 85.6 58.9 88.3

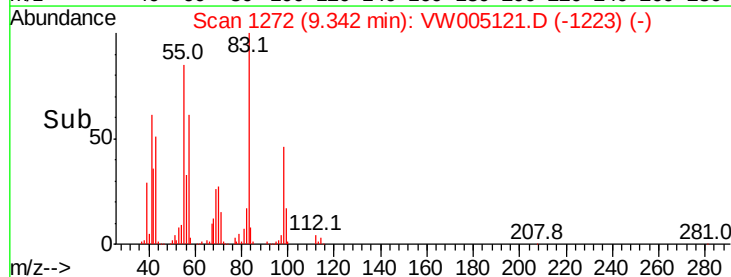
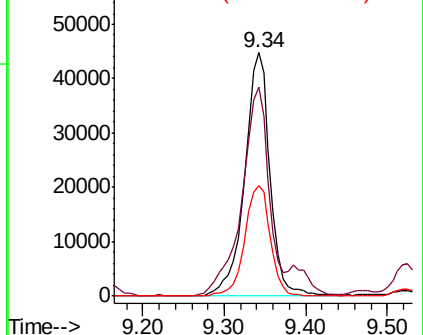
98 45.6 36.8 55.2

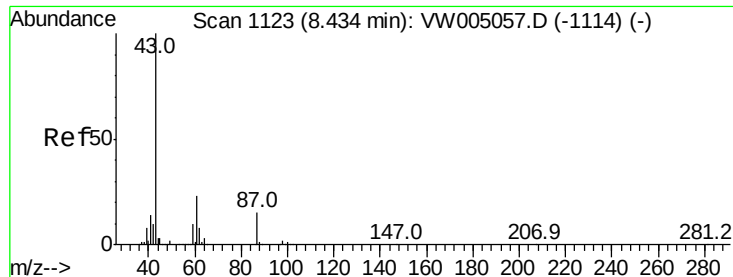


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

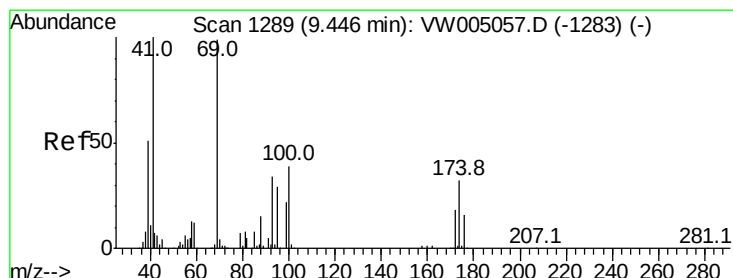
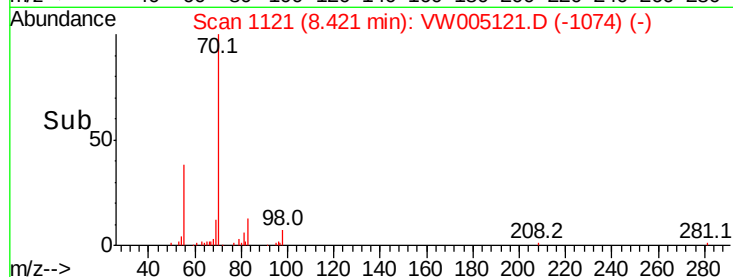
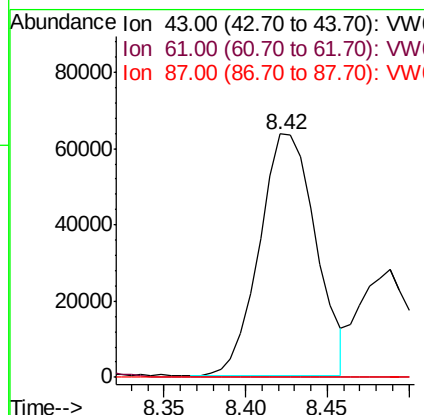
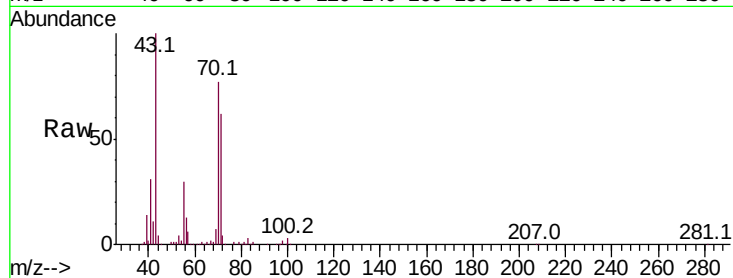




#43  
Isopropyl Acetate  
Concen: 30.538 ug/l  
RT: 8.42 min Scan# 1121  
Delta R.T. -0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

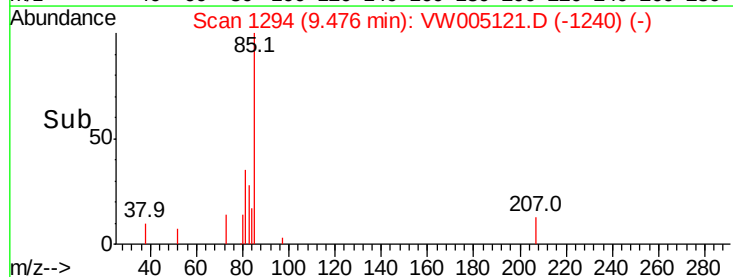
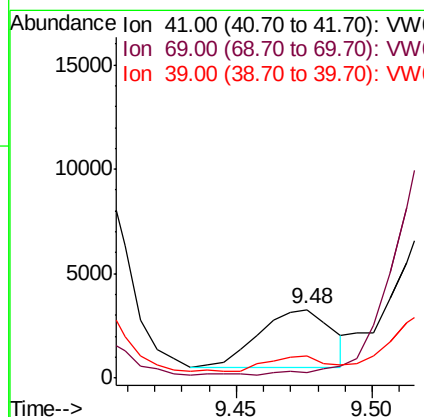
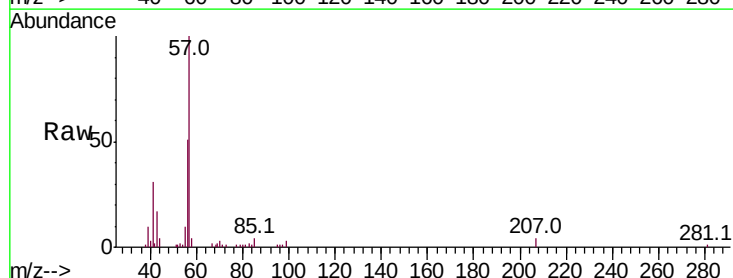
Instrument :  
MSVOA\_W  
ClientSampleId :

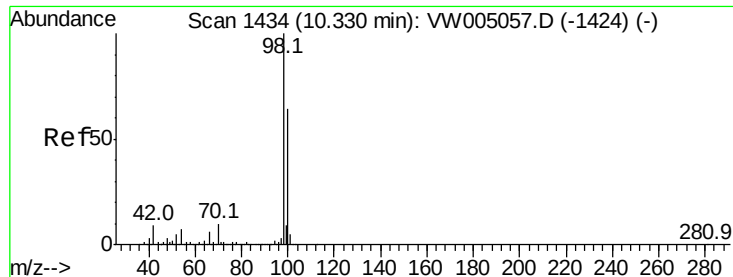
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.1   | 26.8  | 40.2# |
| 87      | 0.0   | 11.6  | 17.4# |



#48  
Methyl methacrylate  
Concen: 2.155 ug/l  
RT: 9.48 min Scan# 1294  
Delta R.T. 0.03 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 41      | 100   |       |        |
| 69      | 0.0   | 80.4  | 120.6# |
| 39      | 19.7  | 43.5  | 65.3#  |

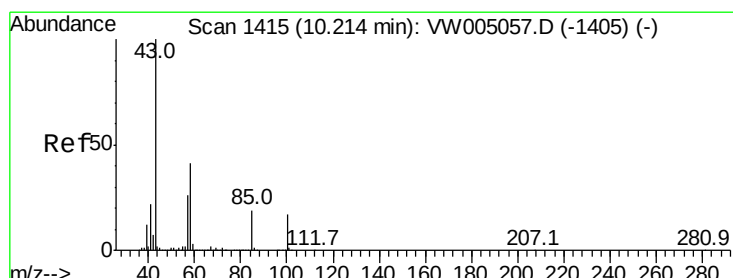
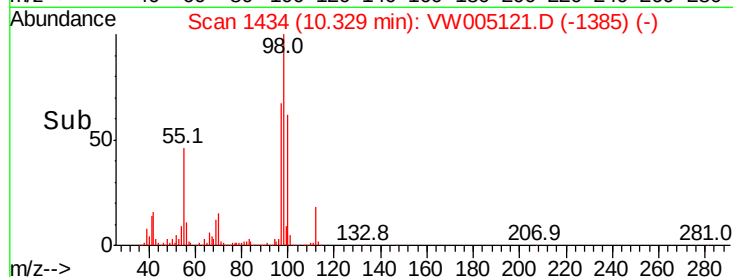
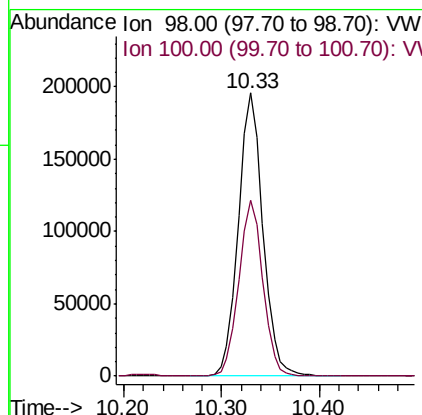
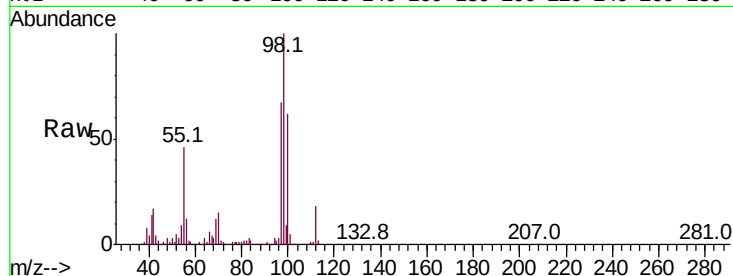




#50  
Toluene-d8  
Concen: 16.706 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

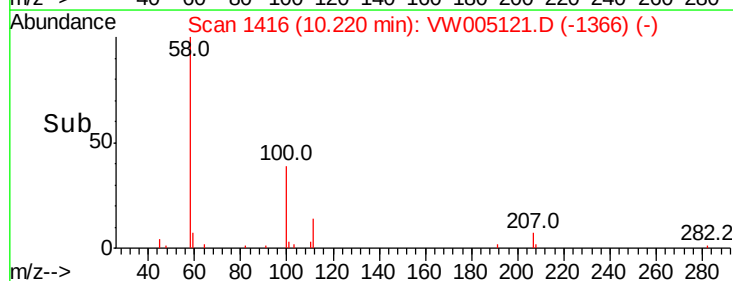
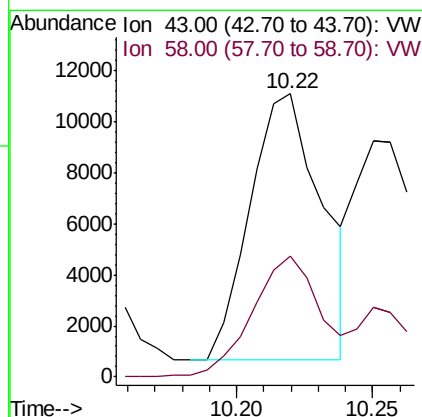
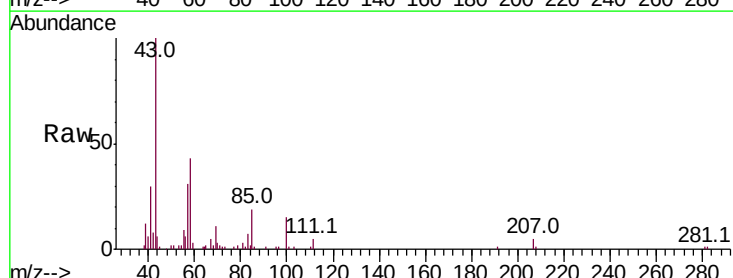
Instrument :  
MSVOA\_W  
ClientSampleId :

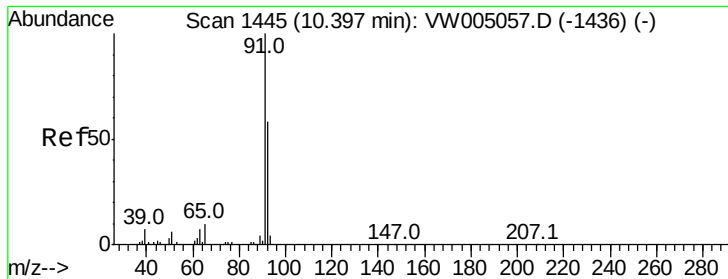
Tot Ion: 98 Resp: 342045  
Ion Ratio Lower Upper  
98 100  
100 60.8 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 5.726 ug/l  
RT: 10.22 min Scan# 1416  
Delta R.T. 0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion: 43 Resp: 19125  
Ion Ratio Lower Upper  
43 100  
58 43.0 33.3 49.9





#52

Toluene

Concen: 14.530 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. -0.00 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

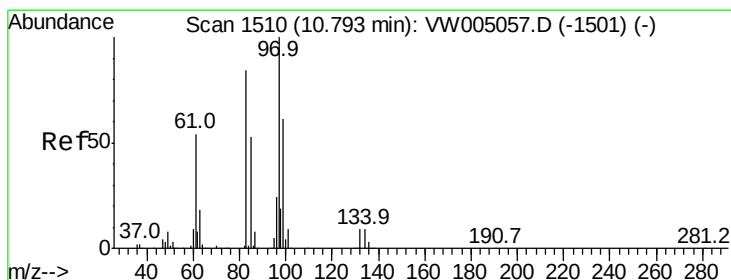
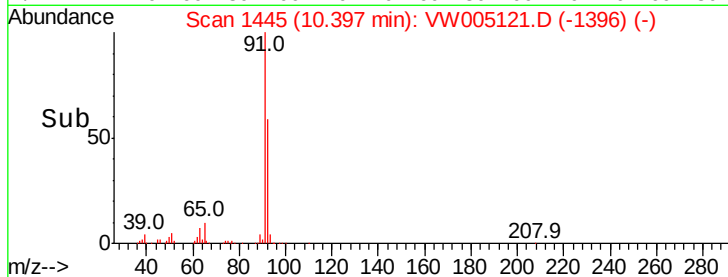
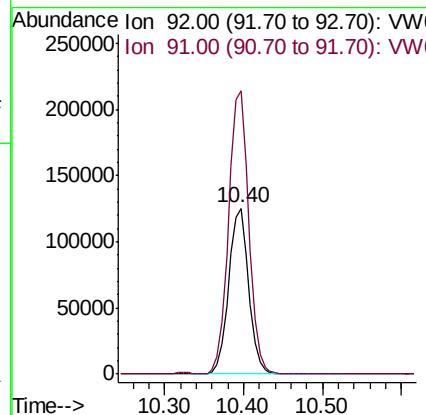
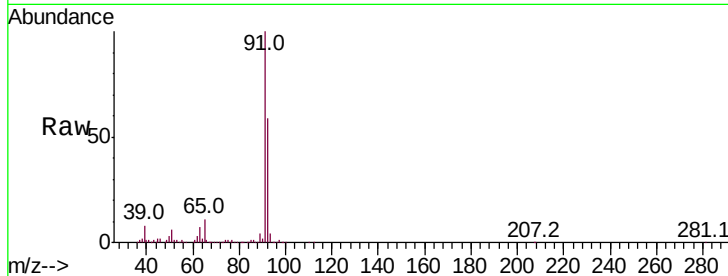
ClientSampled :

Tot Ion: 92 Resp: 220706

Ion Ratio Lower Upper

92 100

91 171.8 139.2 208.8



#55

1,1,2-Trichloroethane

Concen: 29.902 ug/l

RT: 10.77 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Tgt Ion: 97 Resp: 121243

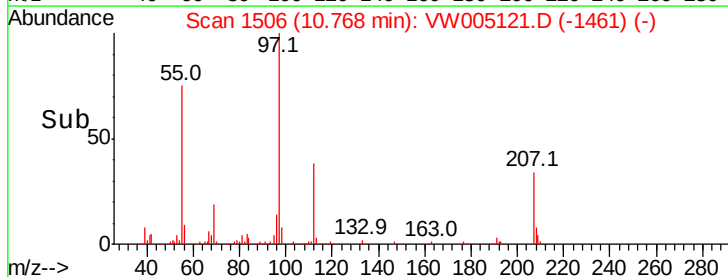
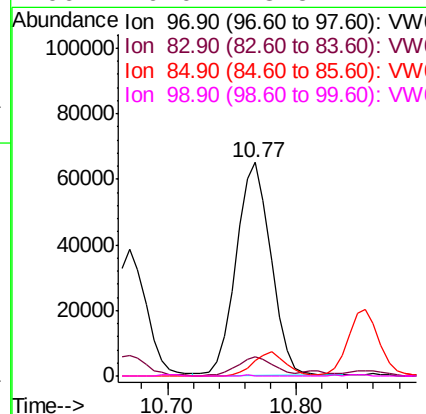
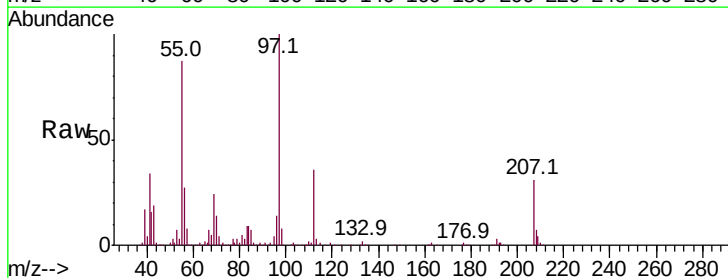
Ion Ratio Lower Upper

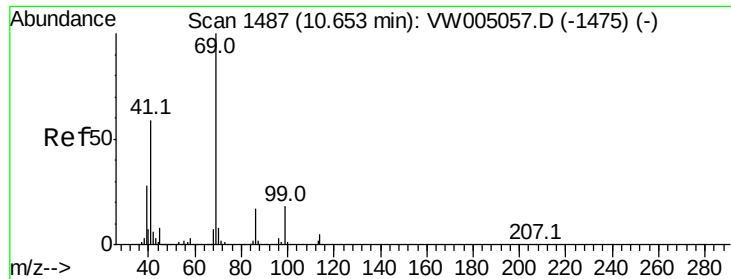
97 100

83 9.1 67.0 100.6#

85 7.1 42.3 63.5#

99 0.0 48.5 72.7#





#56

Ethyl methacrylate

Concen: 4.042 ug/l

RT: 10.67 min Scan# 1490

Delta R.T. 0.02 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampled :

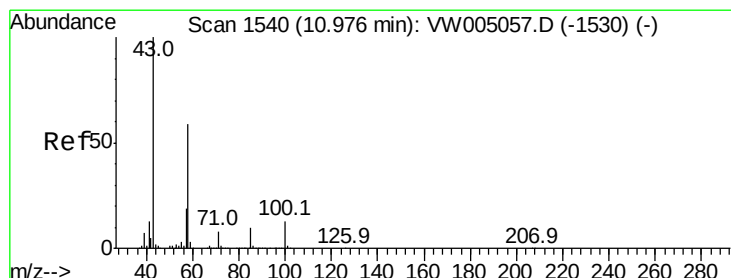
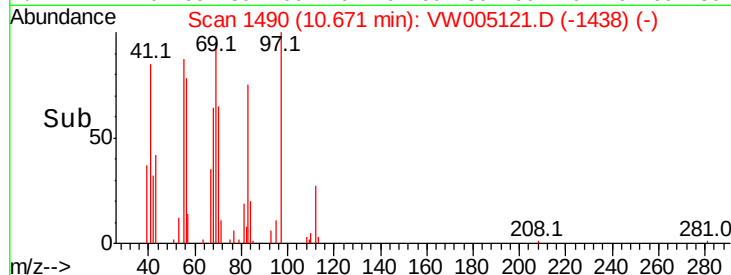
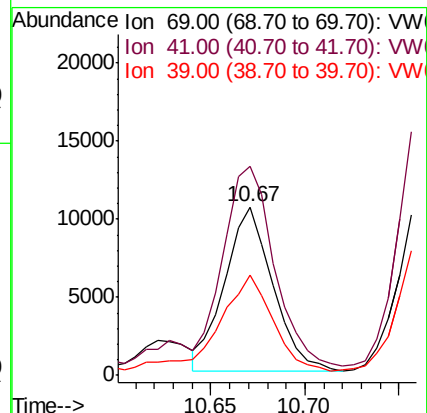
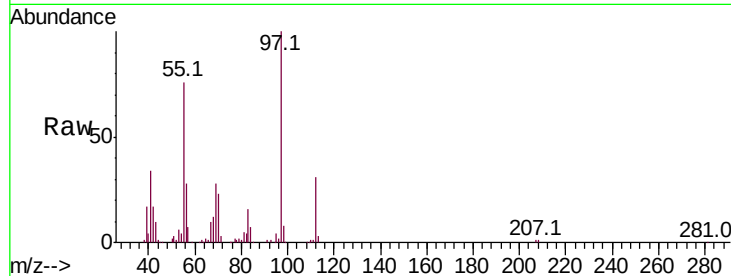
Tot Ion: 69 Resp: 18697

Ion Ratio Lower Upper

69 100

41 128.1 47.8 71.6#

39 66.5 21.1 31.7#



#59

2-Hexanone

Concen: 35.217 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.04 min

Lab File: VW005121.D

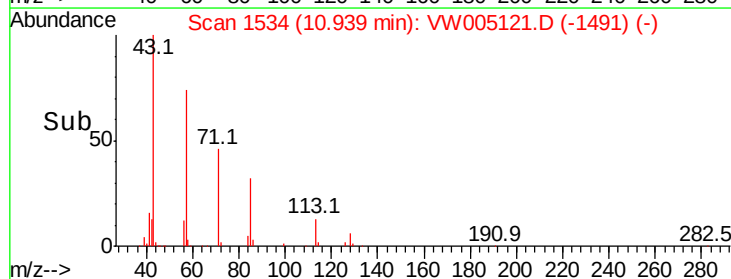
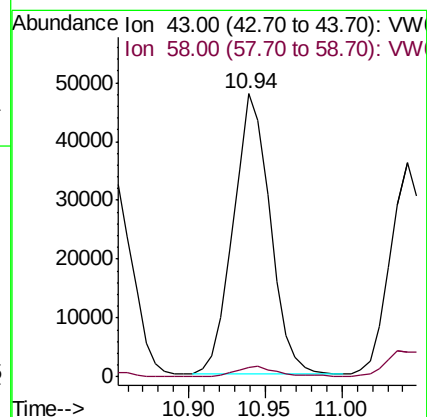
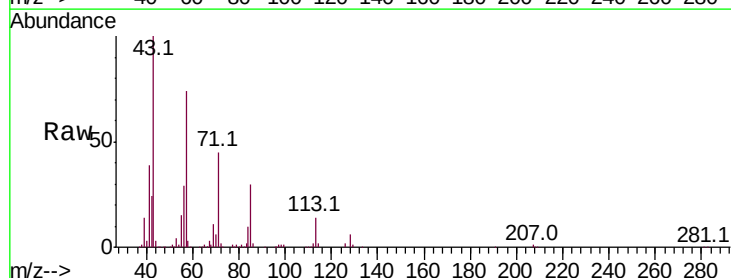
Acq: 05 Sep 2018 10:38

Tgt Ion: 43 Resp: 79555

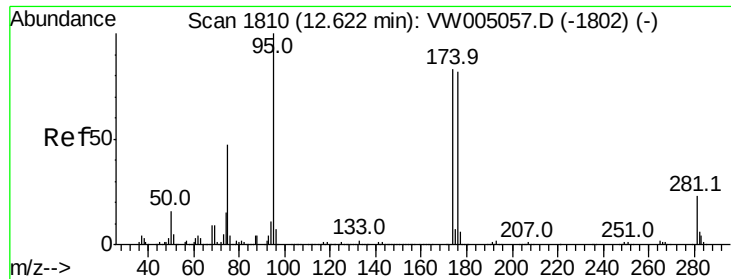
Ion Ratio Lower Upper

43 100

58 4.6 28.7 86.3#



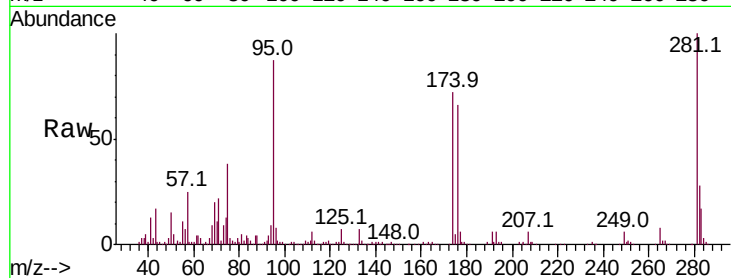




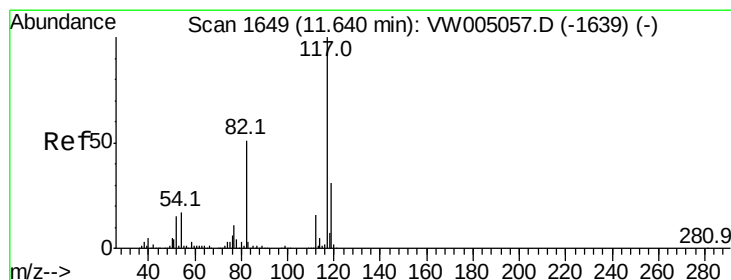
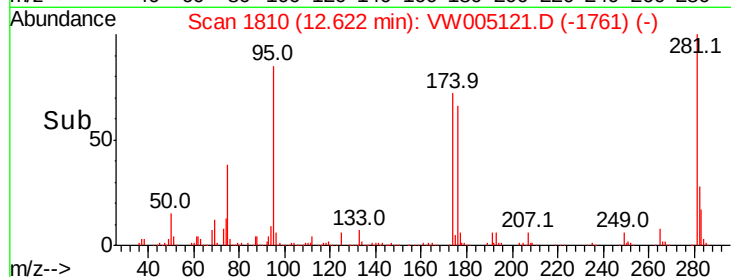
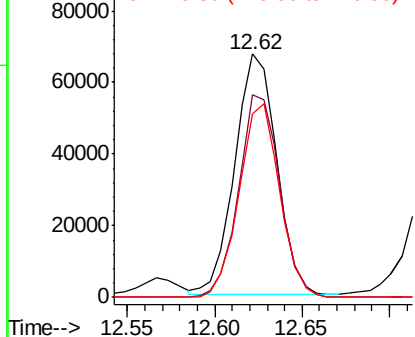
#62  
4-Bromofluorobenzene  
Concen: 15.526 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 95 Resp: 112088  
Ion Ratio Lower Upper  
95 100  
174 82.7 0.0 173.4  
176 77.9 0.0 167.4

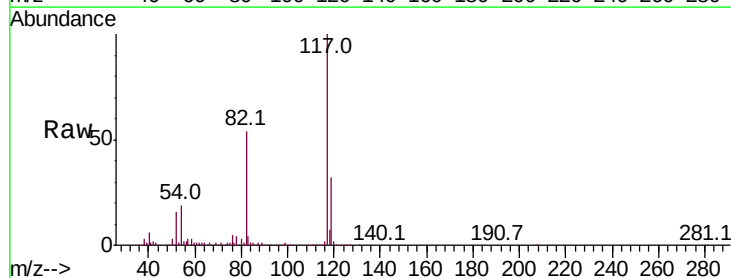


Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW

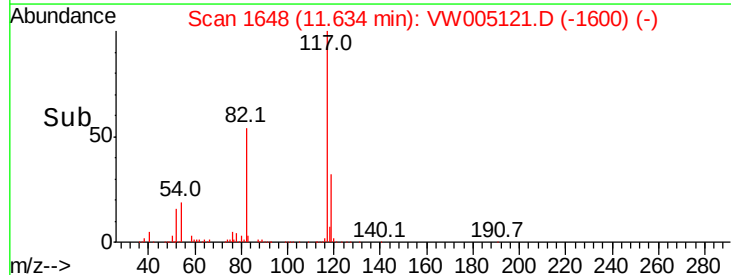
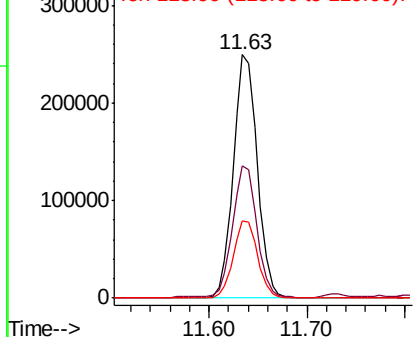


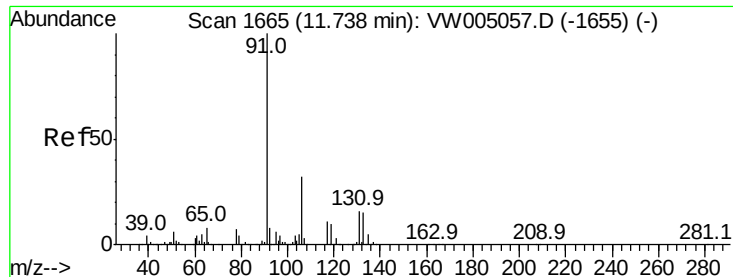
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion: 117 Resp: 422382  
Ion Ratio Lower Upper  
117 100  
82 53.9 40.9 61.3  
119 31.9 24.9 37.3



Abundance Ion 116.90 (116.60 to 117.60): VW  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): VW





#67

Ethyl Benzene

Concen: 145.343 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

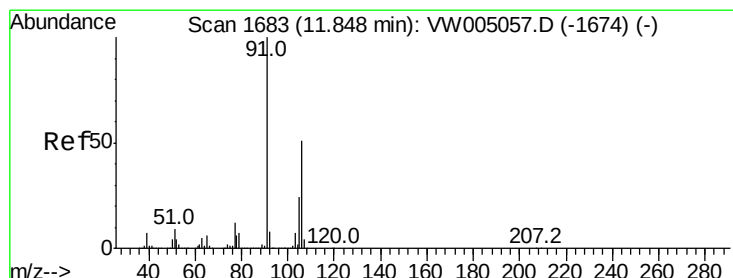
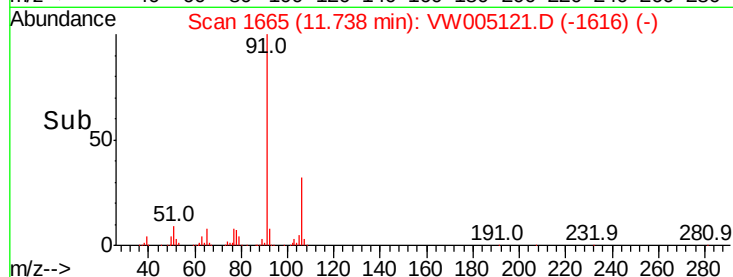
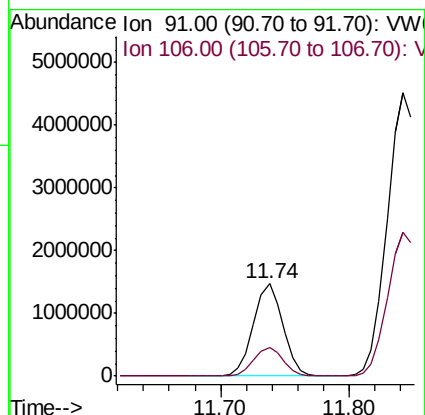
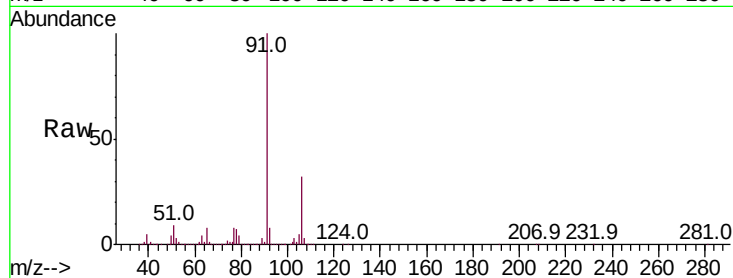
ClientSampleId :

Tot Ion: 91 Resp: 2336388

Ion Ratio Lower Upper

91 100

106 31.7 25.3 37.9



#68

m/p-Xylenes

Concen: 658.010 ug/l

RT: 11.84 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VW005121.D

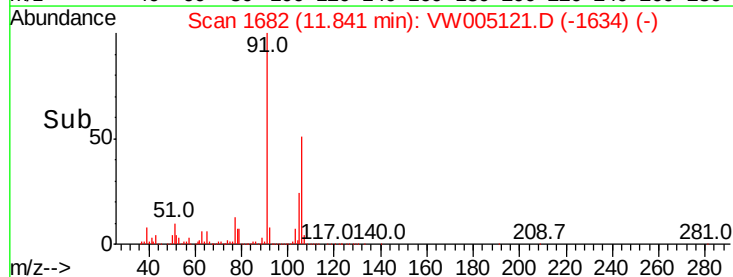
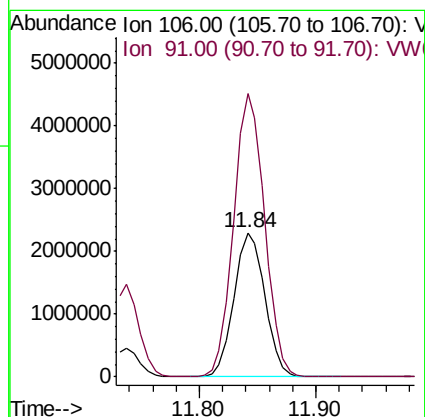
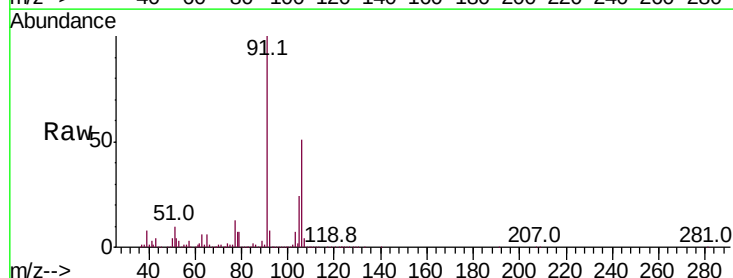
Acq: 05 Sep 2018 10:38

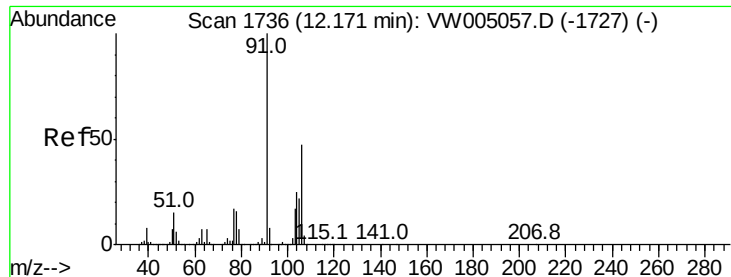
Tgt Ion:106 Resp: 4235193

Ion Ratio Lower Upper

106 100

91 197.2 158.4 237.6

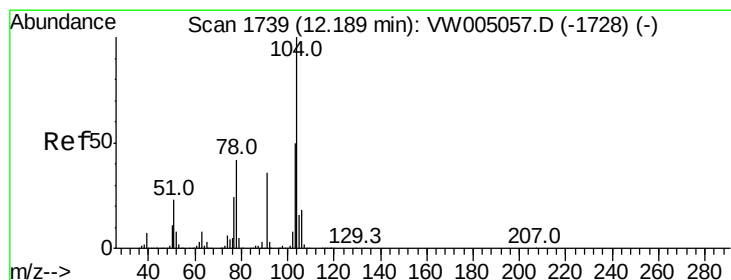
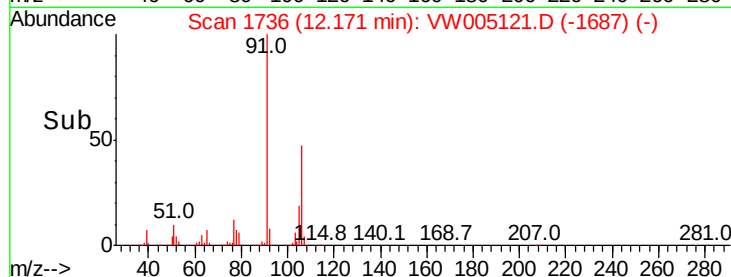
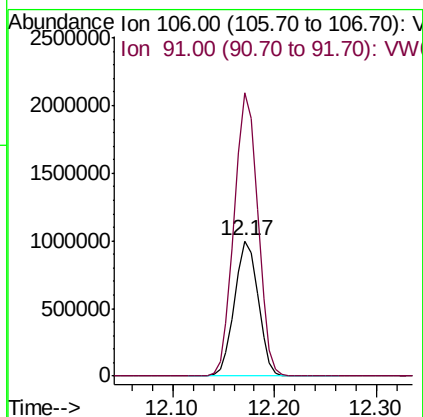
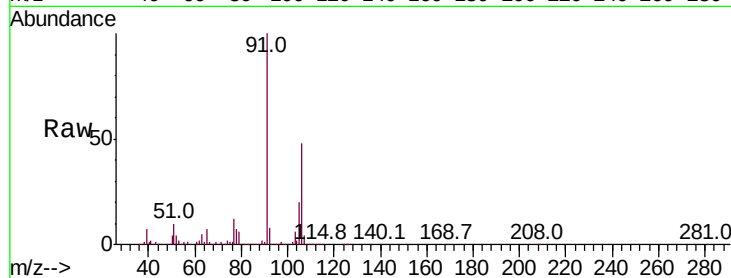




#69  
o-Xylene  
Concen: 267.832 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

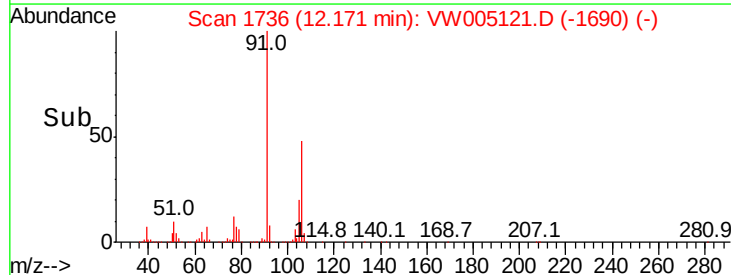
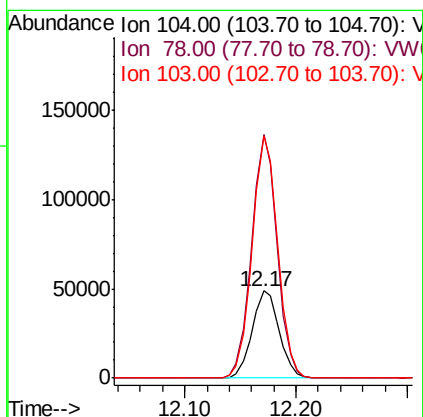
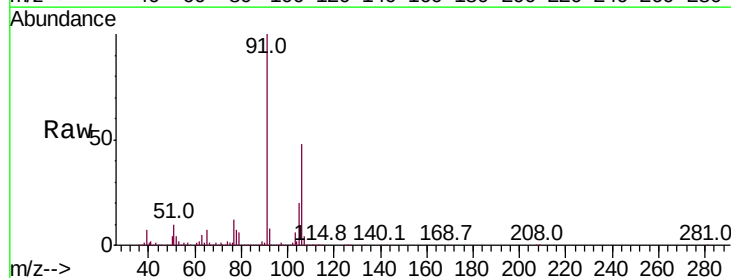
Instrument :  
MSVOA\_W  
ClientSampled :

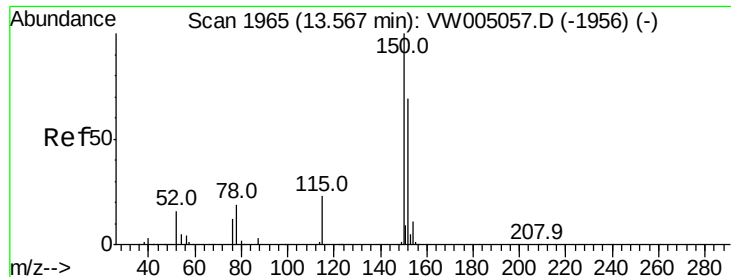
Tot Ion:106 Resp: 1593815  
Ion Ratio Lower Upper  
106 100  
91 210.7 105.6 316.8



#70  
Styrene  
Concen: 8.490 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.02 min  
Lab File: VW005121.D  
Acq: 05 Sep 2018 10:38

Tgt Ion:104 Resp: 83461  
Ion Ratio Lower Upper  
104 100  
78 261.0 37.8 56.6#  
103 260.0 44.1 66.1#

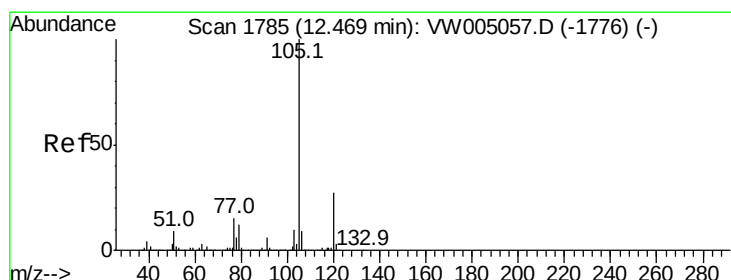
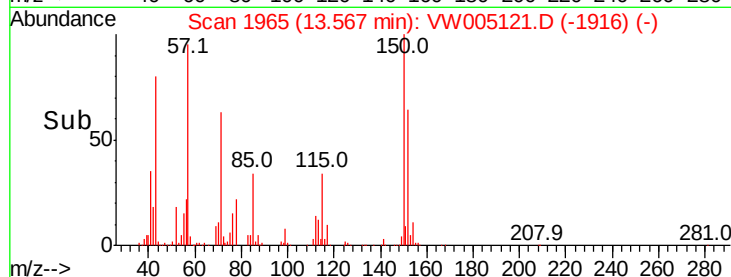
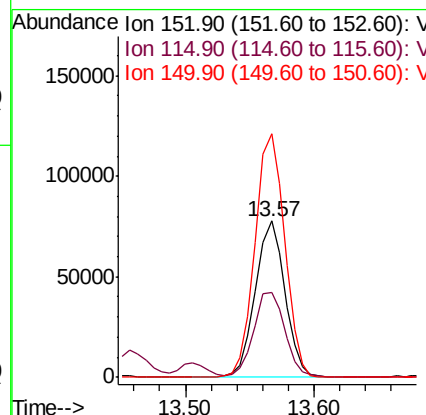
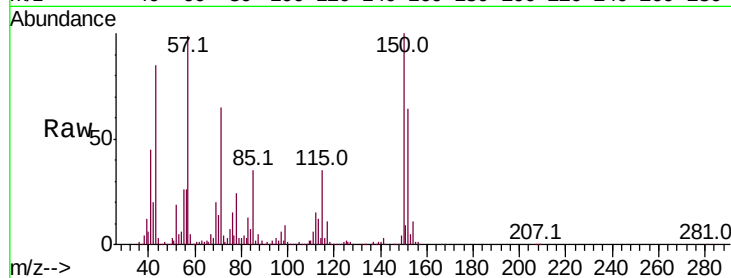




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.57 min Scan# 1965  
 Delta R.T. -0.00 min  
 Lab File: VW005121.D  
 Acq: 05 Sep 2018 10:38

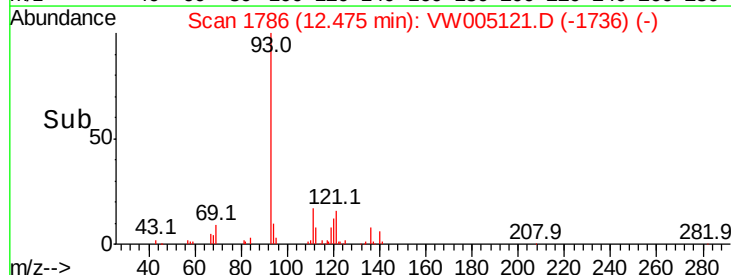
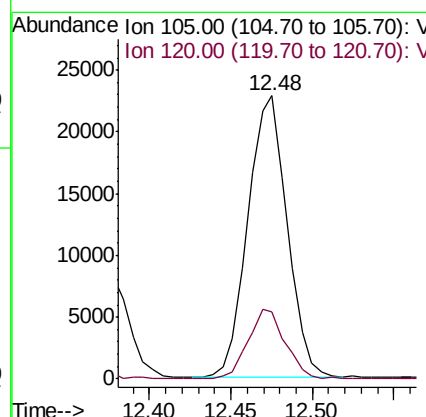
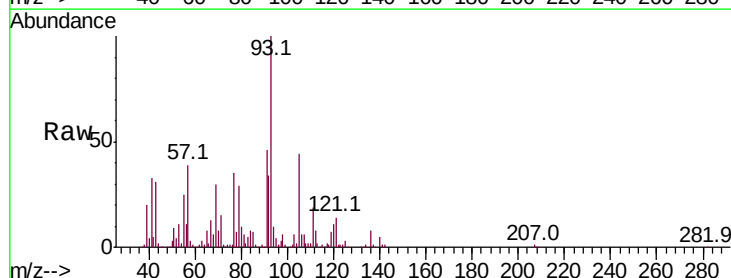
Instrument :  
 MSVOA\_W  
 ClientSampleId :

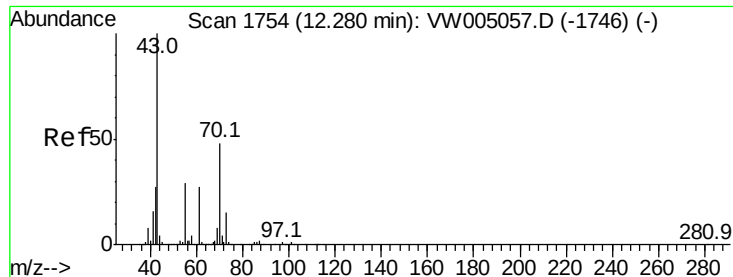
Tot Ion:152 Resp: 123220  
 Ion Ratio Lower Upper  
 152 100  
 115 56.4 27.8 83.4  
 150 156.2 0.0 351.4



#73  
 Isopropylbenzene  
 Concen: 4.383 ug/l  
 RT: 12.48 min Scan# 1786  
 Delta R.T. 0.01 min  
 Lab File: VW005121.D  
 Acq: 05 Sep 2018 10:38

Tgt Ion:105 Resp: 38082  
 Ion Ratio Lower Upper  
 105 100  
 120 23.6 13.4 40.1





#74

N-amvl acetate

Concen: 48.218 ug/l

RT: 12.26 min Scan# 1750

Delta R.T. -0.02 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 43 Resp: 72135

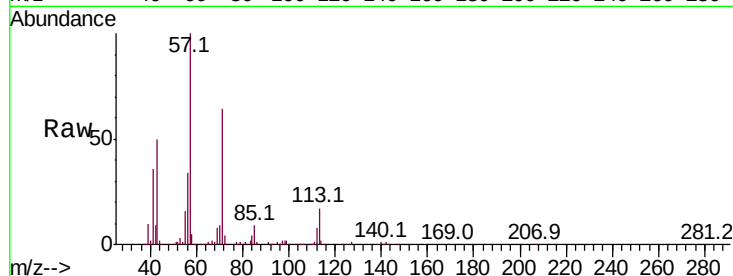
Ion Ratio Lower Upper

43 100

70 22.4 38.2 57.4#

55 18.7 23.2 34.8#

61 0.0 20.6 31.0#

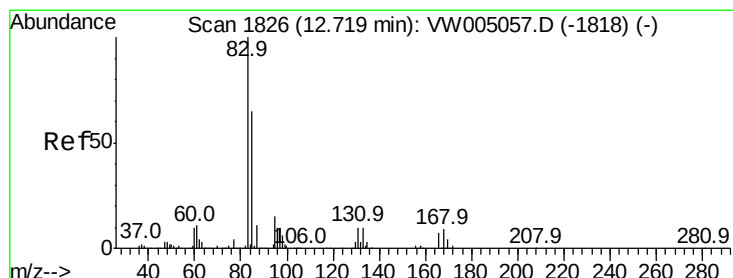
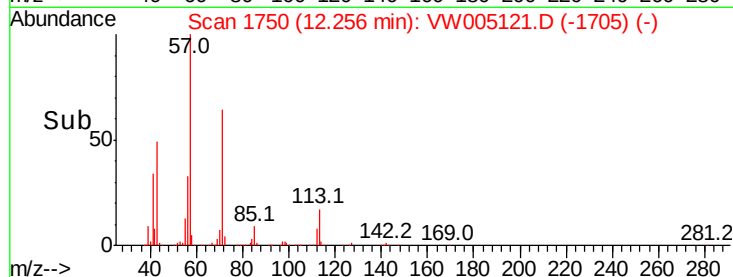
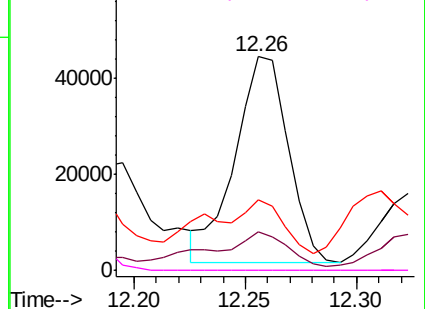


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 5.949 ug/l

RT: 12.66 min Scan# 1816

Delta R.T. -0.06 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

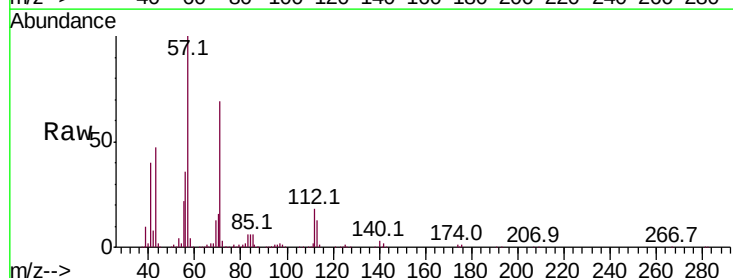
Tgt Ion: 83 Resp: 7869

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

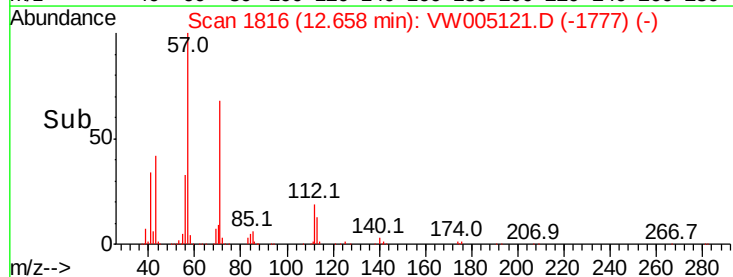
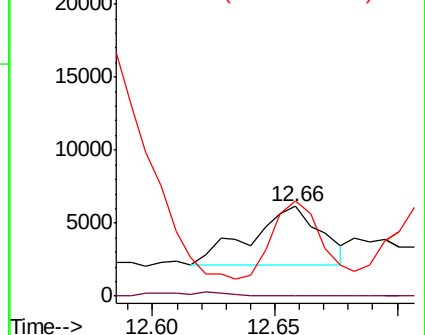
85 121.2 32.5 97.4#

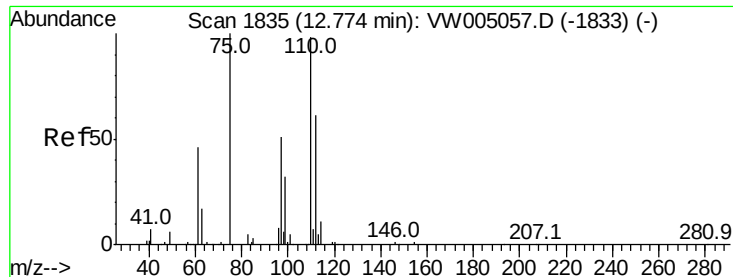


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 1.804 ug/l

RT: 12.73 min Scan# 1827

Delta R.T. -0.05 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

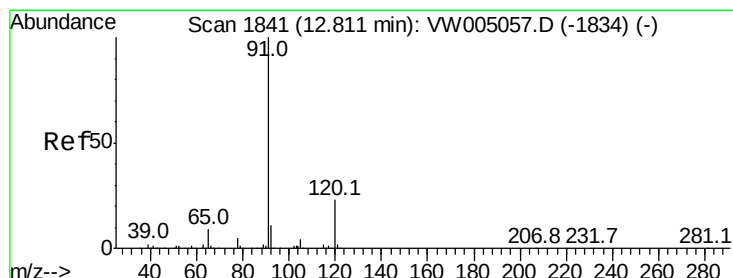
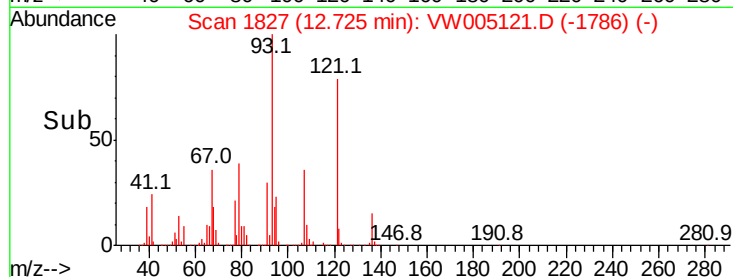
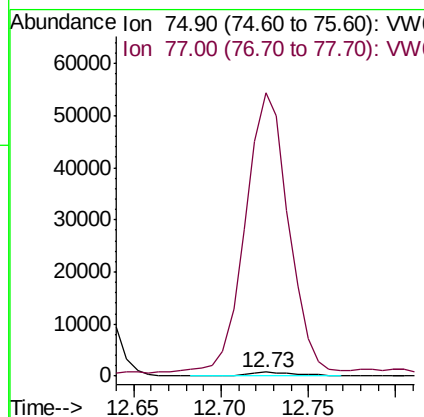
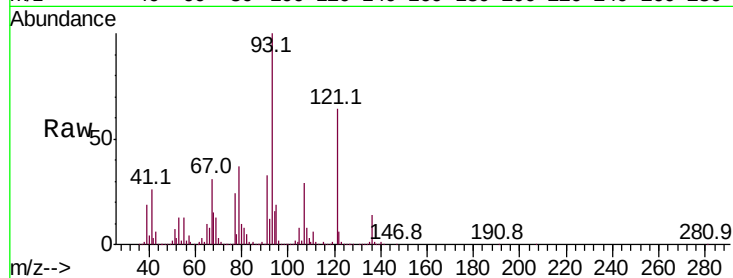
ClientSampled :

Tot Ion: 75 Resp: 1669

Ion Ratio Lower Upper

75 100

77 5582.2 0.0 0.0#



#78

n-propylbenzene

Concen: 1.867 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW005121.D

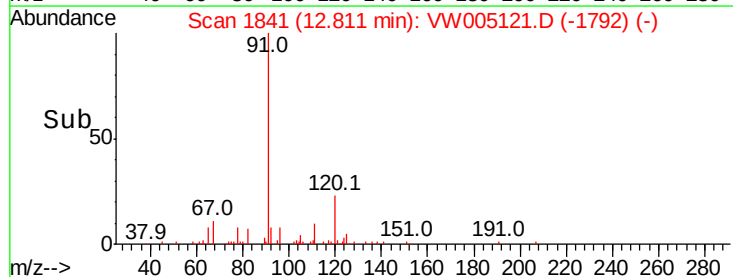
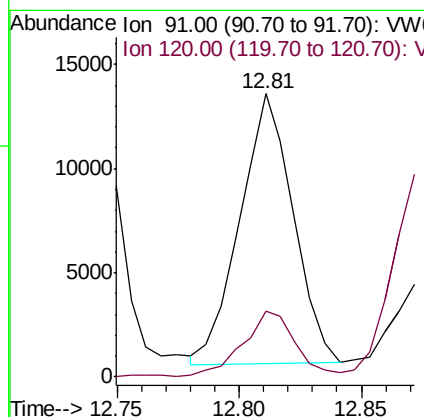
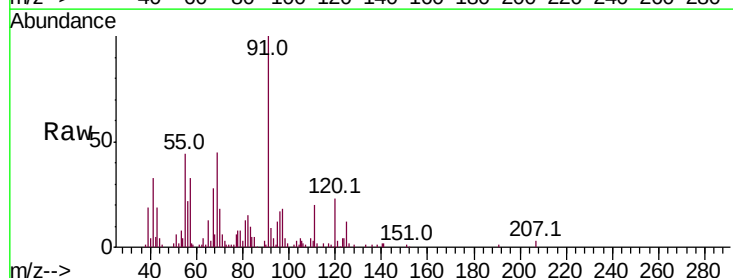
Acq: 05 Sep 2018 10:38

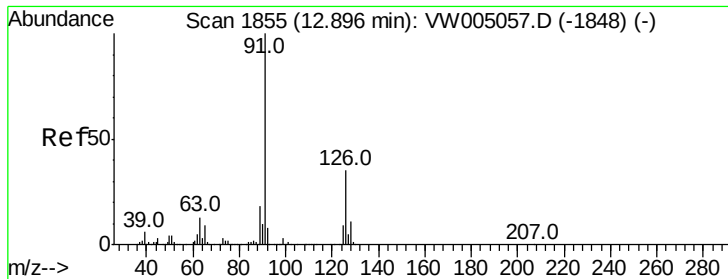
Tgt Ion: 91 Resp: 19582

Ion Ratio Lower Upper

91 100

120 24.2 11.8 35.3





#79

2-Chlorotoluene

Concen: 1.053 ug/l

RT: 12.87 min Scan# 1851

Delta R.T. -0.02 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

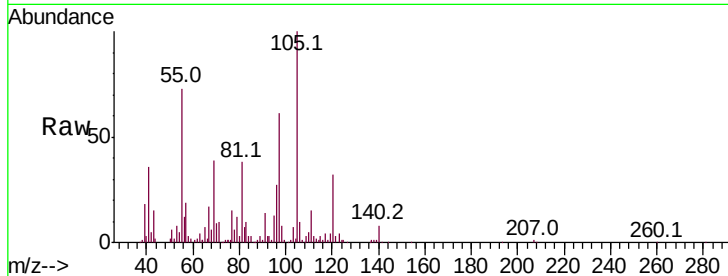
ClientSampleId :

Tot Ion: 91 Resp: 6445

Ion Ratio Lower Upper

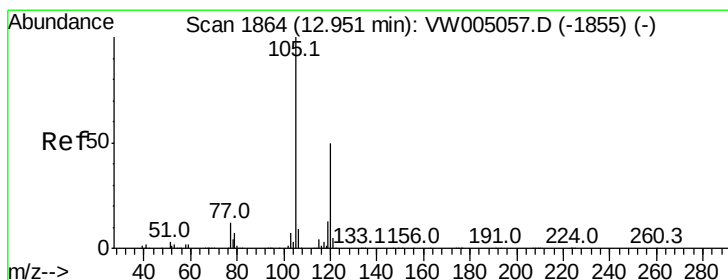
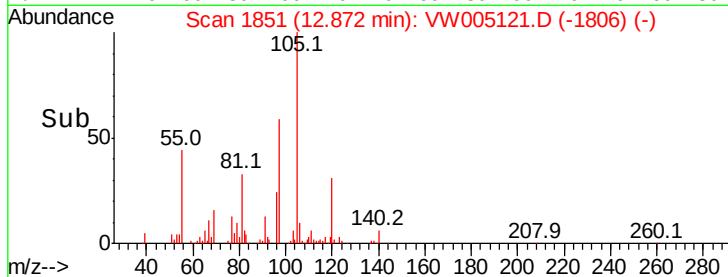
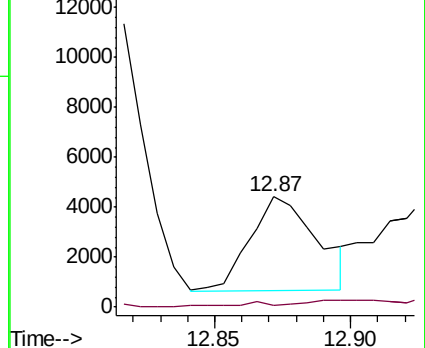
91 100

126 3.3 17.3 52.0#



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: 6.194 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW005121.D

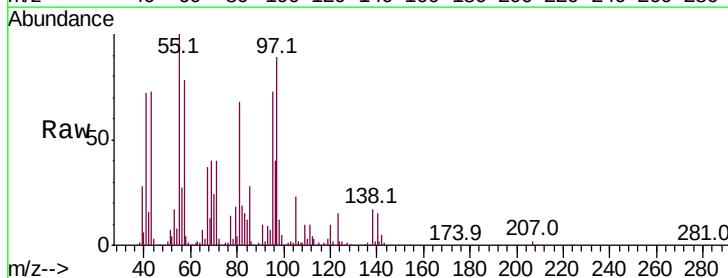
Acq: 05 Sep 2018 10:38

Tgt Ion: 105 Resp: 46541

Ion Ratio Lower Upper

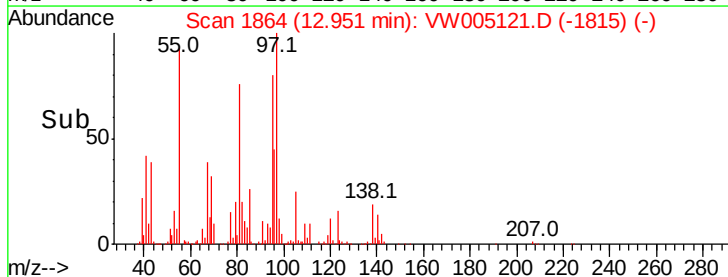
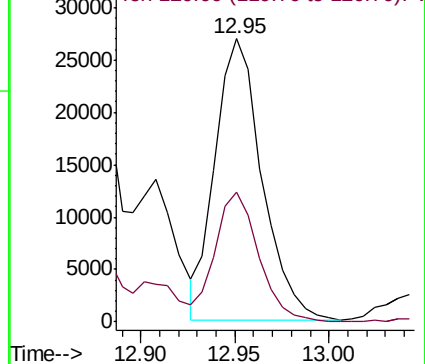
105 100

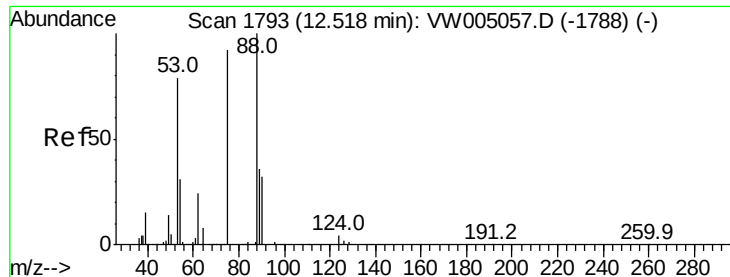
120 42.8 24.9 74.8



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: 132.599 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampleId :

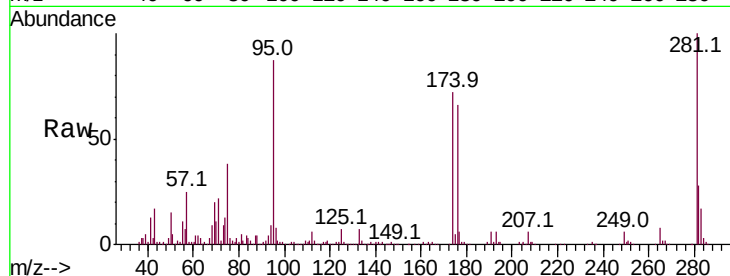
Tot Ion: 75 Resp: 50955

Ion Ratio Lower Upper

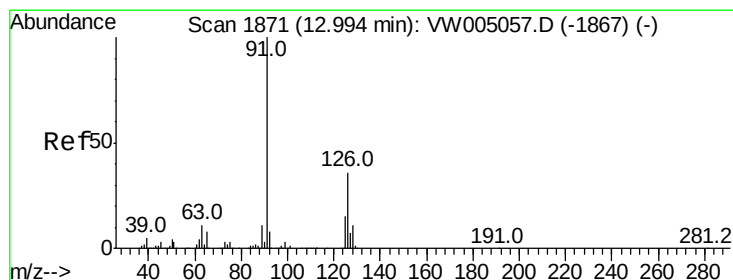
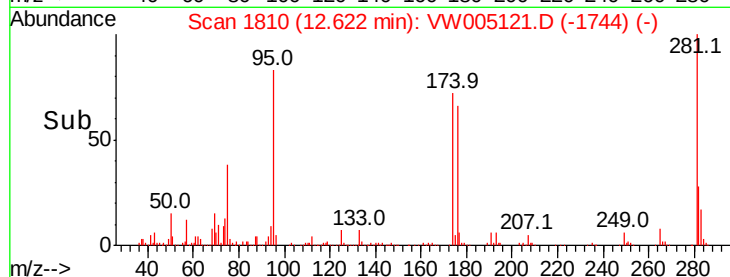
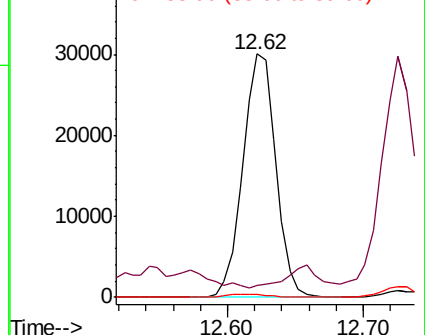
75 100

53 0.0 69.8 104.8#

89 1.9 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 53.00 (52.70 to 53.70): VW  
Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 9.148 ug/l

RT: 12.97 min Scan# 1867

Delta R.T. -0.02 min

Lab File: VW005121.D

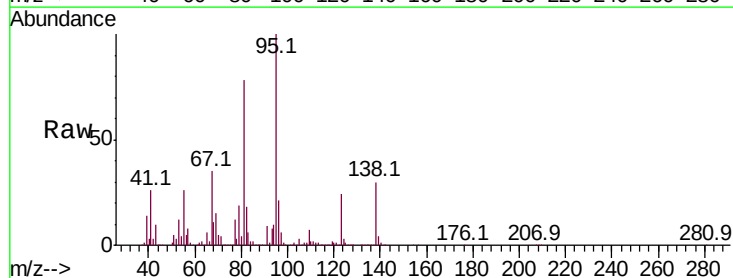
Acq: 05 Sep 2018 10:38

Tgt Ion: 91 Resp: 59109

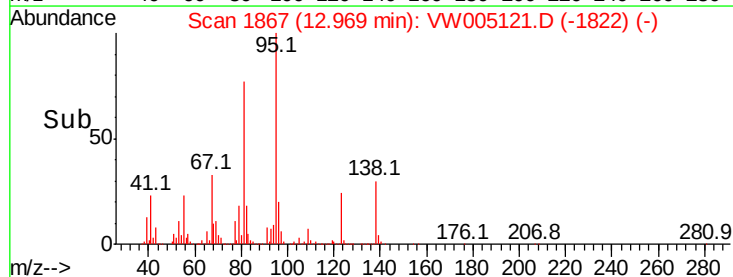
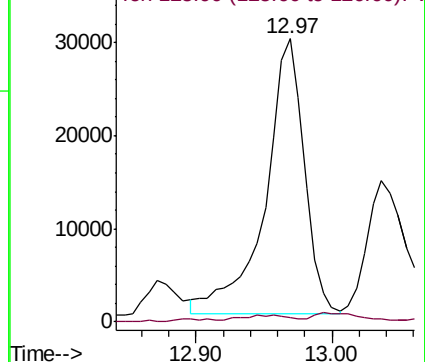
Ion Ratio Lower Upper

91 100

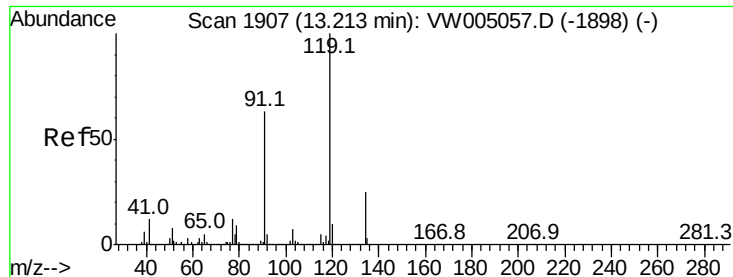
126 0.0 17.4 52.3#



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







#83

tert-Butylbenzene

Concen: 2.542 ug/l

RT: 13.26 min Scan# 1915

Delta R.T. 0.05 min

Lab File: VW005121.D

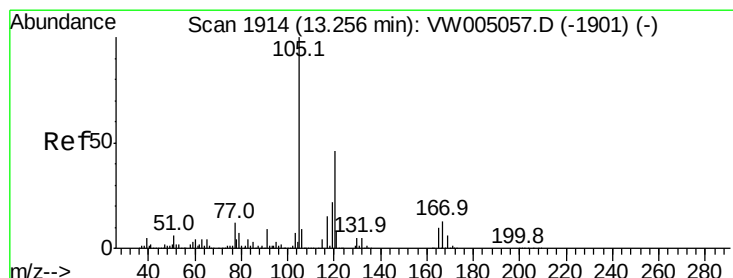
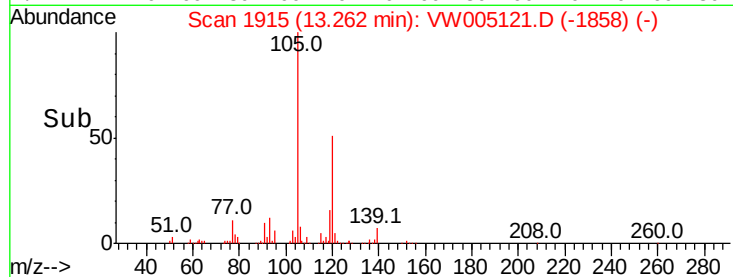
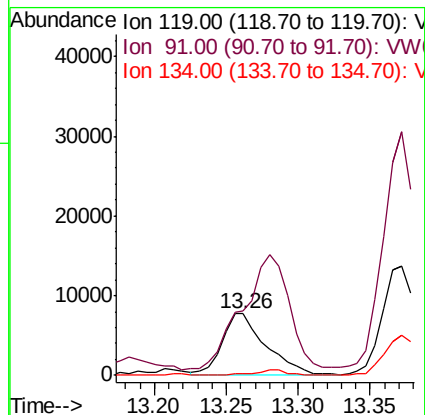
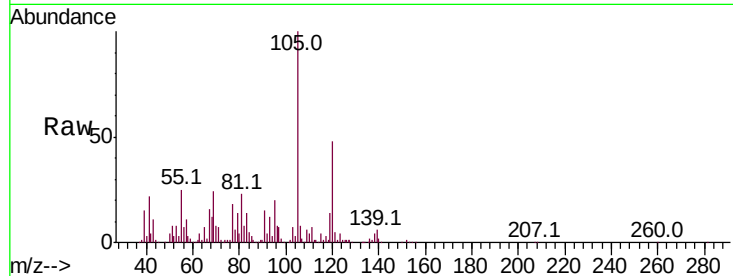
Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampleId :

|             |       |       |
|-------------|-------|-------|
| Tot Ion:119 | Resp: | 15948 |
| Ion Ratio   | Lower | Upper |
| 119 100     |       |       |
| 91 204.0    | 31.8  | 95.4# |
| 134 7.9     | 13.0  | 39.0# |



#84

1,2,4-Trimethylbenzene

Concen: 12.519 ug/l

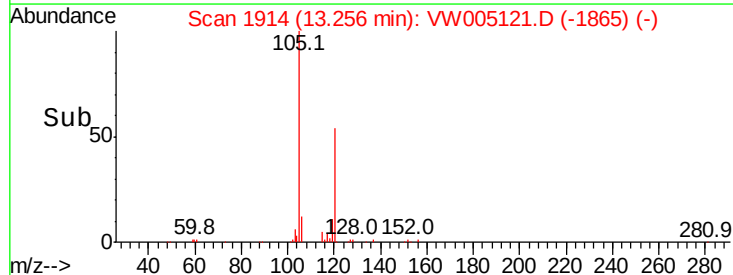
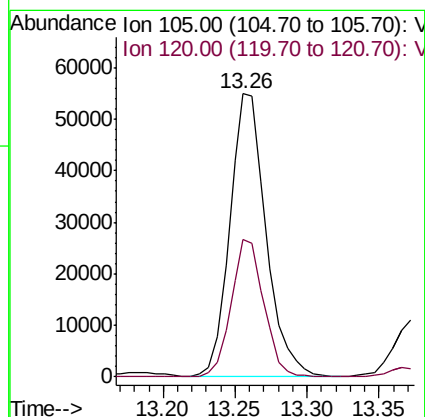
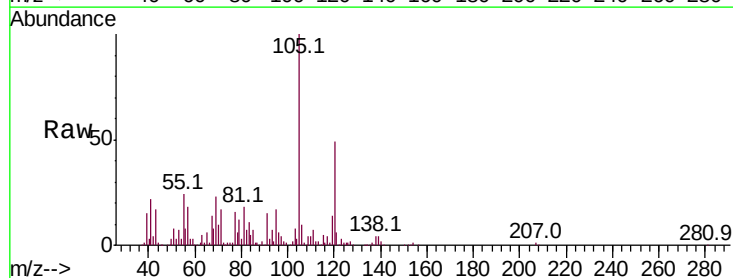
RT: 13.26 min Scan# 1914

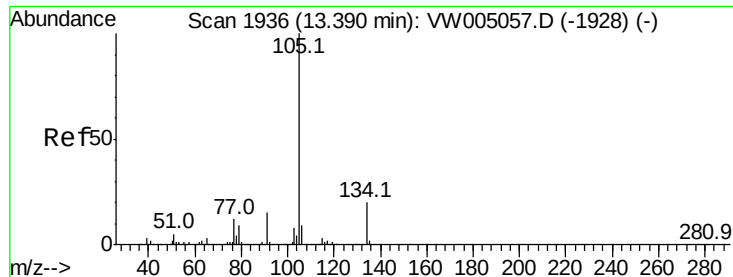
Delta R.T. -0.00 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:105 | Resp: | 95791 |
| Ion Ratio   | Lower | Upper |
| 105 100     |       |       |
| 120 44.4    | 23.1  | 69.3  |





#85

sec-Butylbenzene

Concen: 3.044 ug/l

RT: 13.37 min Scan# 1933

Delta R.T. -0.02 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

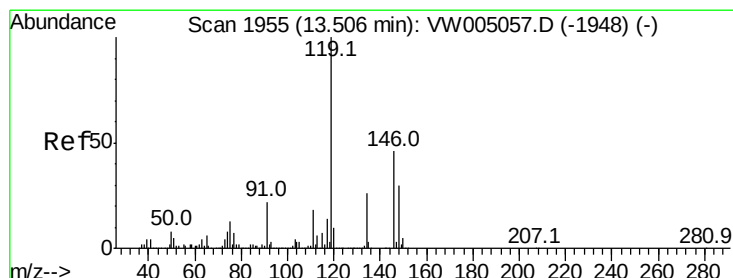
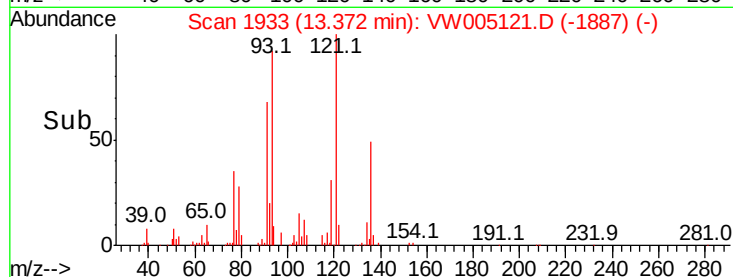
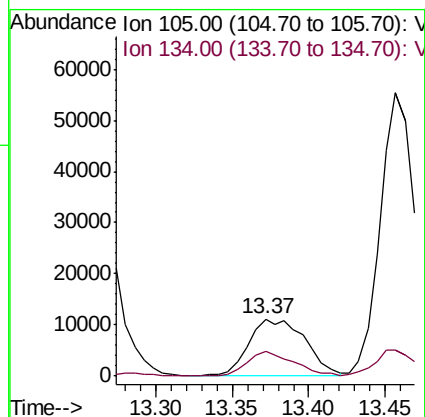
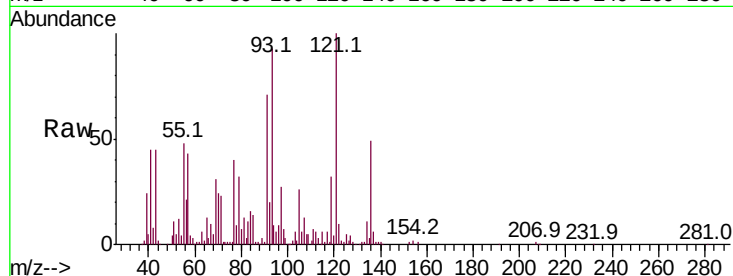
ClientSampled :

Tot Ion:105 Resp: 28065

Ion Ratio Lower Upper

105 100

134 36.9 10.1 30.3#



#86

p-Isopropyltoluene

Concen: 18.996 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

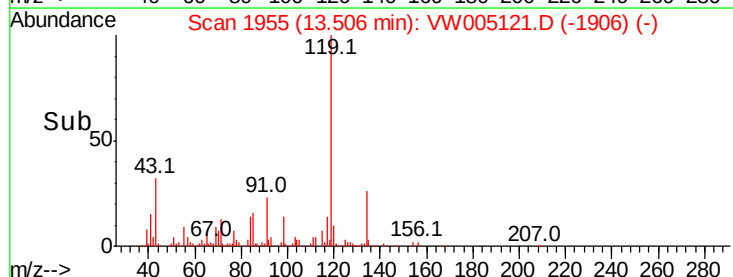
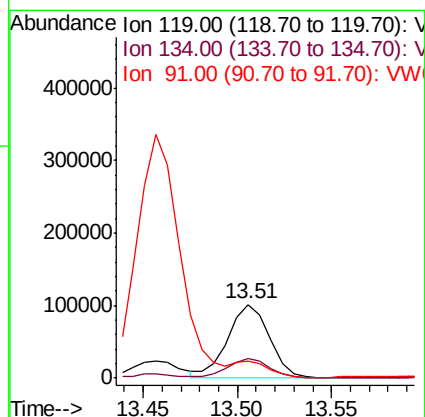
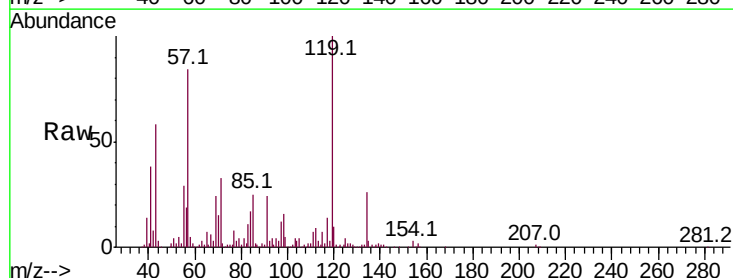
Tgt Ion:119 Resp: 155055

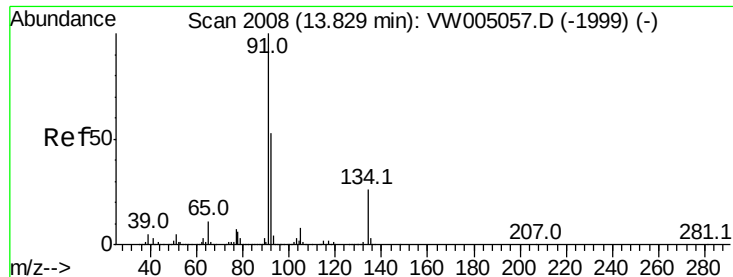
Ion Ratio Lower Upper

119 100

134 26.1 13.3 39.8

91 0.0 10.9 32.9#





#89

n-Butylbenzene

Concen: 2.060 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampleId :

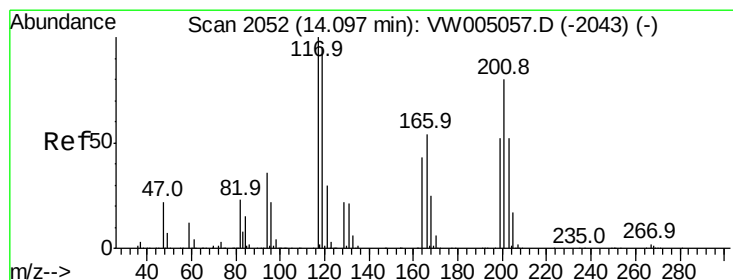
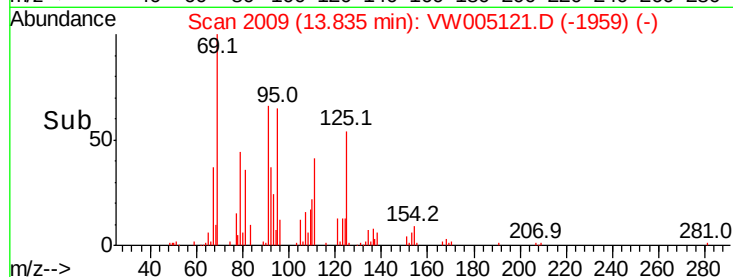
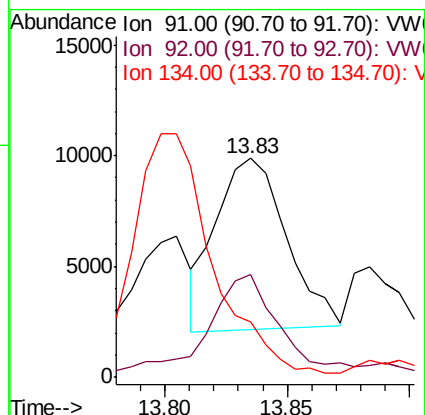
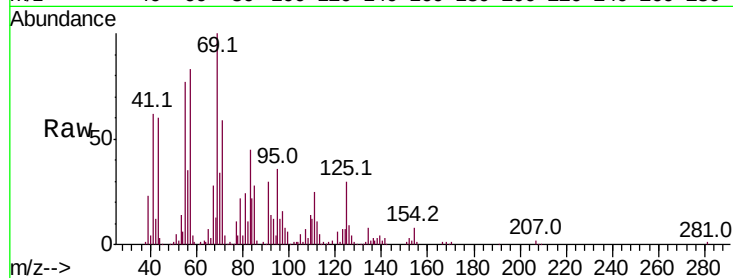
Tot Ion: 91 Resp: 15580

Ion Ratio Lower Upper

91 100

92 56.2 26.5 79.5

134 0.0 13.5 40.4#



#90

Hexachloroethane

Concen: 4.081 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. 0.01 min

Lab File: VW005121.D

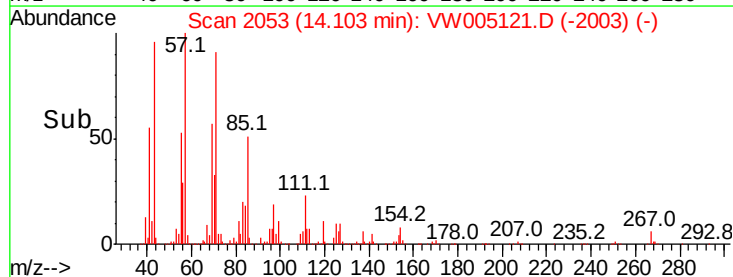
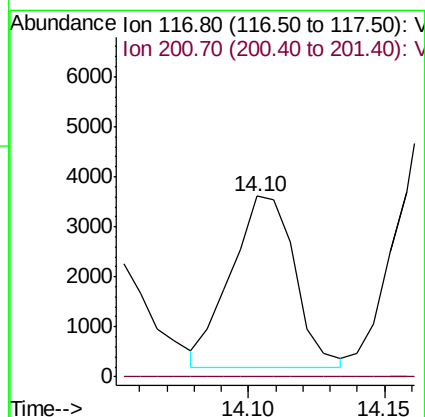
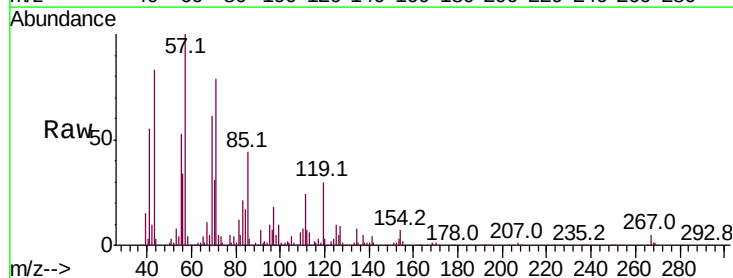
Acq: 05 Sep 2018 10:38

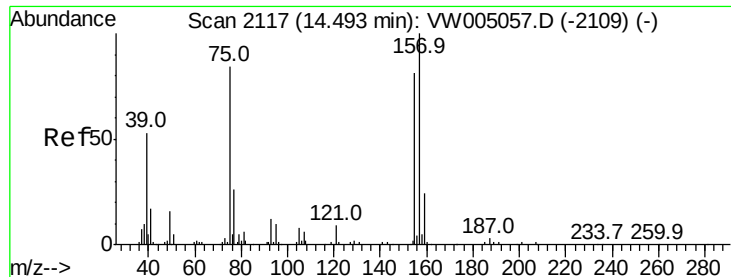
Tgt Ion: 117 Resp: 5533

Ion Ratio Lower Upper

117 100

201 0.0 44.6 133.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.132 ug/l

RT: 14.52 min Scan# 2122

Delta R.T. 0.03 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampled :

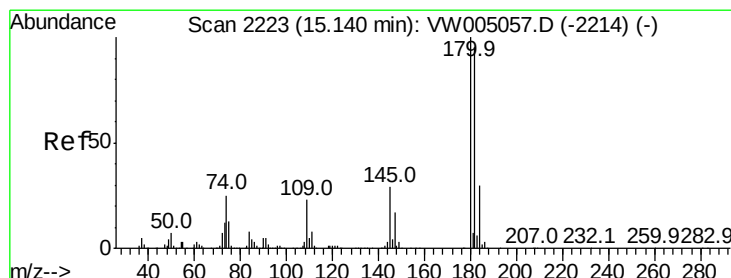
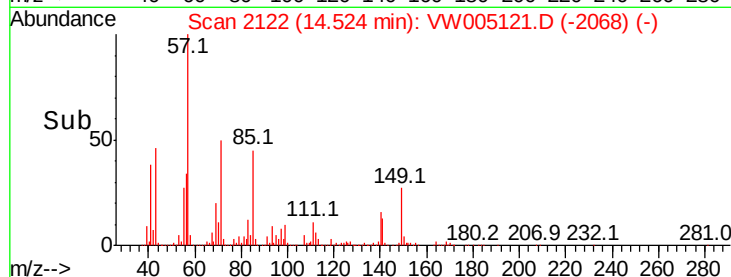
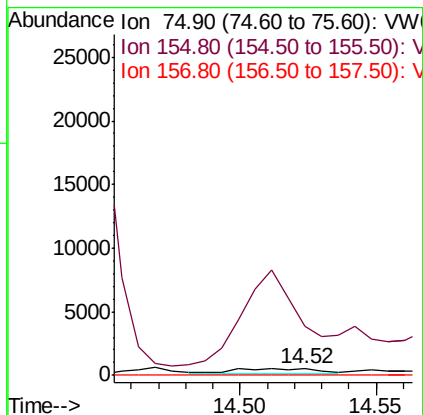
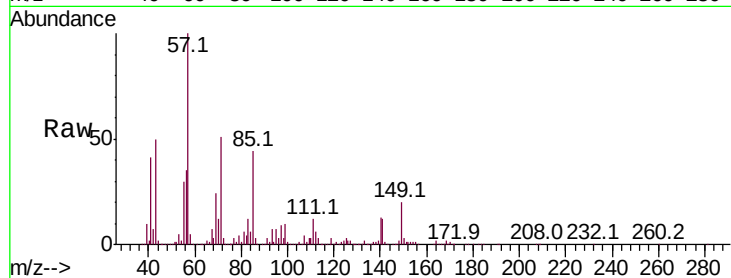
Tot Ion: 75 Resp: 854

Ion Ratio Lower Upper

75 100

155 1394.5 46.0 137.8#

157 2.3 58.6 175.7#



#93

1,2,4-Trichlorobenzene

Concen: 8.236 ug/l

RT: 15.18 min Scan# 2229

Delta R.T. 0.04 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

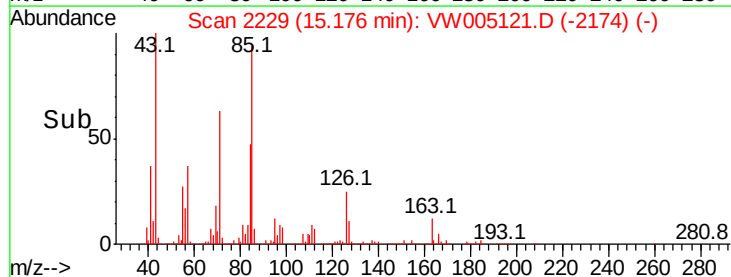
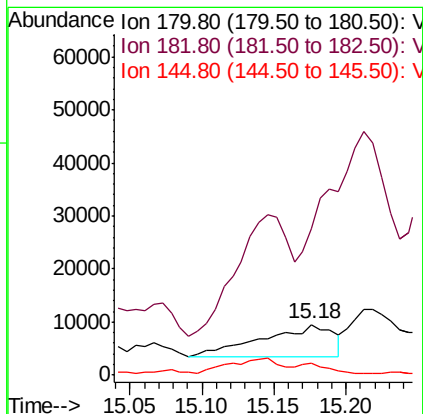
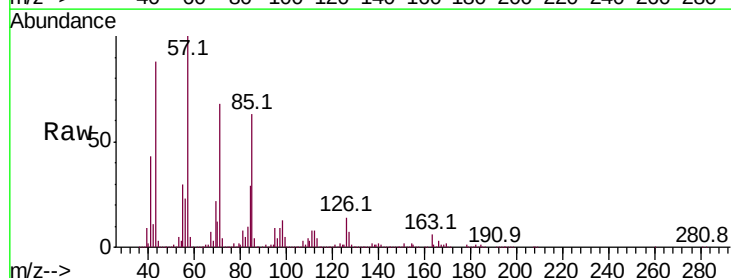
Tgt Ion: 180 Resp: 21167

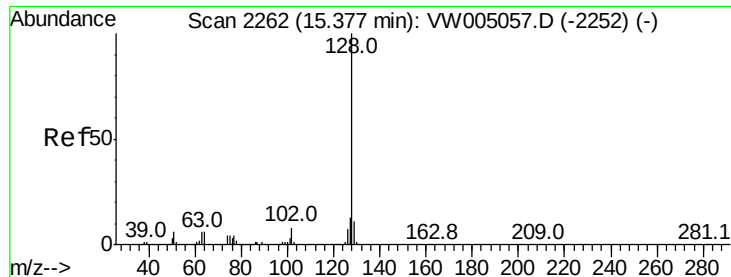
Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.6#

145 14.9 14.4 43.2





#95

Naphthalene

Concen: 8.957 ug/l

RT: 15.34 min Scan# 2256

Delta R.T. -0.04 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Instrument :

MSVOA\_W

ClientSampleId :

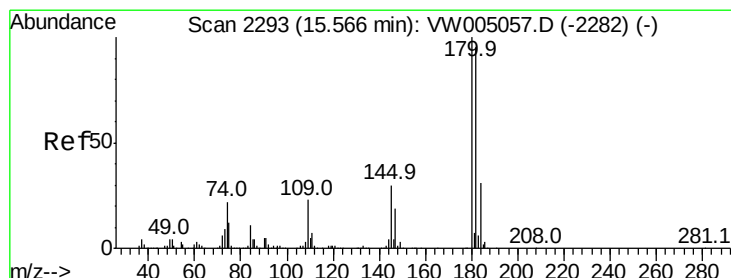
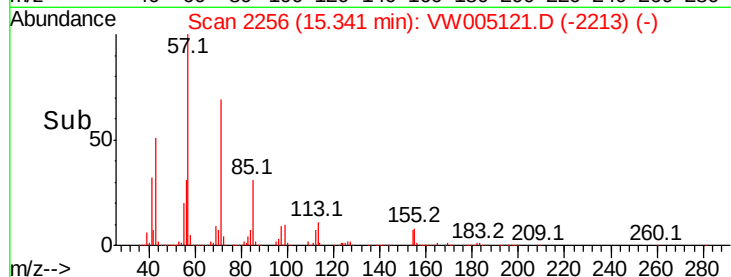
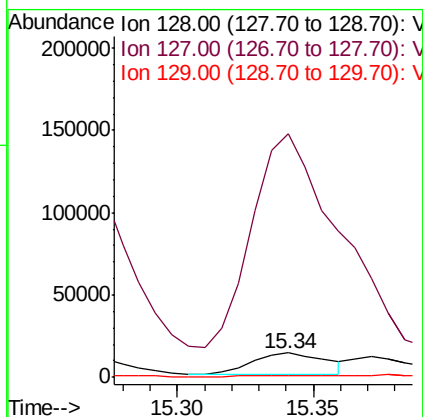
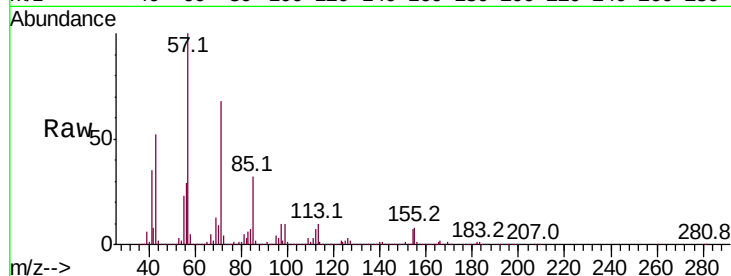
Tot Ion:128 Resp: 24026

Ion Ratio Lower Upper

128 100

127 1187.1 10.4 15.6#

129 4.4 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 39.887 ug/l

RT: 15.59 min Scan# 2297

Delta R.T. 0.02 min

Lab File: VW005121.D

Acq: 05 Sep 2018 10:38

Tgt Ion:180 Resp: 87729

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

145 0.0 15.4 46.1#

