

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122018\  
 Data File : VW007677.D  
 Acq On : 19 Dec 2018 01:31  
 Operator : SY/AP  
 Sample : WV1220SBS02  
 Misc : 4.77G/5ML/MSVOA W/SOIL  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 19 03:22:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 58541    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 95066    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 86705    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 44610    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 34691    | 53.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.82% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 30886    | 53.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.34% |      |
| 50) Toluene-d8            | 10.32  | 98  | 112868   | 52.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.62% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 44698    | 56.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.68% |      |

## Target Compounds

|                               |      |     |       |         |      | Qvalue |
|-------------------------------|------|-----|-------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 8236  | 20.133  | ug/l | 89     |
| 3) Chloromethane              | 2.21 | 50  | 6867  | 20.043  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.37 | 62  | 8535  | 21.228  | ug/l | 95     |
| 5) Bromomethane               | 2.78 | 94  | 6231  | 23.066  | ug/l | 93     |
| 6) Chloroethane               | 2.92 | 64  | 4900  | 22.139  | ug/l | 94     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 8015  | 22.173  | ug/l | 93     |
| 8) Diethyl Ether              | 3.68 | 74  | 6088  | 21.518  | ug/l | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 12979 | 21.760  | ug/l | 96     |
| 10) Methyl Iodide             | 4.26 | 142 | 22110 | 22.382  | ug/l | 94     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 4692  | 105.191 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 12605 | 21.950  | ug/l | 96     |
| 13) Acrolein                  | 3.89 | 56  | 2717  | 92.056  | ug/l | 100    |
| 14) Allyl chloride            | 4.66 | 41  | 17170 | 20.284  | ug/l | 95     |
| 15) Acrylonitrile             | 5.37 | 53  | 11846 | 99.323  | ug/l | 98     |
| 16) Acetone                   | 4.12 | 43  | 10915 | 96.216  | ug/l | 93     |
| 17) Carbon Disulfide          | 4.37 | 76  | 37102 | 21.308  | ug/l | 96     |
| 18) Methyl Acetate            | 4.67 | 43  | 6338  | 20.585  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 19558 | 22.576  | ug/l | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 14303 | 20.765  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 14054 | 21.877  | ug/l | 94     |
| 22) Diisopropyl ether         | 6.31 | 45  | 33574 | 20.635  | ug/l | 94     |
| 23) Vinyl Acetate             | 6.26 | 43  | 91539 | 100.584 | ug/l | 95     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 24201 | 22.007  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 14417 | 97.347  | ug/l | 93     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 16071 | 22.082  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 15842 | 22.522  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 8299  | 20.064  | ug/l | 90     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 9168  | 97.785  | ug/l | 94     |
| 30) Chloroform                | 7.68 | 83  | 27121 | 22.663  | ug/l | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 19877 | 19.701  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 24595 | 23.436  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 19936 | 22.988  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 6776  | 21.007  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 23086 | 24.466  | ug/l | 96     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 23113    | 22.010  | ug/l   | 90       |
| 40) Benzene                    | 8.32  | 78   | 55367    | 23.005  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 4579     | 24.929  | ug/l   | 91       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 18337    | 24.255  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 13199    | 20.716  | ug/l   | 95       |
| 44) Trichloroethene            | 9.09  | 130  | 16470    | 23.965  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 12686    | 22.778  | ug/l   | 94       |
| 46) Dibromomethane             | 9.46  | 93   | 7249     | 22.920  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.65  | 83   | 19657    | 23.694  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 6887     | 21.047  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 2496     | 486.378 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 31209    | 103.668 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 37080    | 23.808  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 19015    | 23.609  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 21337    | 22.917  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 10591    | 24.604  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 11684    | 22.583  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 17537    | 24.821  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 27016    | 113.231 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 21249    | 105.854 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 13524    | 24.895  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 10266    | 24.133  | ug/l   | 95       |
| 64) Tetrachloroethene          | 10.87 | 164  | 14351    | 23.016  | ug/l   | 91       |
| 65) Chlorobenzene              | 11.66 | 112  | 41901    | 23.185  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 15407    | 24.206  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 72525    | 23.342  | ug/l   | 90       |
| 68) m/p-Xylenes                | 11.84 | 106  | 57131    | 47.298  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 26956    | 23.895  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 44356    | 24.343  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 7409     | 22.742  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 74902    | 21.913  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 12563    | 20.223  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 10873    | 21.477  | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 15875    | 43.159  | ug/l # | 1        |
| 77) Bromobenzene               | 12.75 | 156  | 17319    | 22.858  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 87000    | 22.616  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 51655    | 22.192  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 66855    | 23.277  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 3540     | 21.260  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 54385    | 22.166  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 58074    | 22.947  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 66522    | 22.507  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 78785    | 22.805  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 71033    | 22.887  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 35028    | 23.187  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 34615    | 22.792  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 64807    | 22.524  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 12768    | 23.121  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 31604    | 23.358  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 2136     | 21.024  | ug/l   | 100      |

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ALS Vial : 36 Sample Multiplier: 1

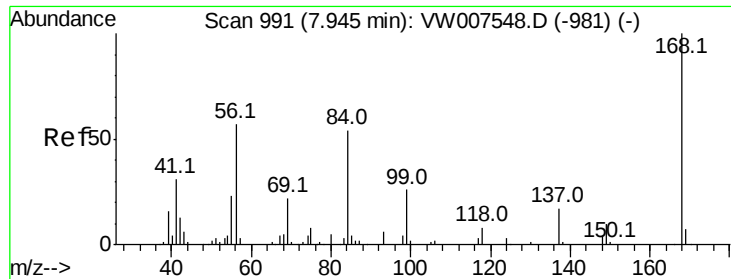
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Dec 19 03:22:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
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QLast Update : Tue Dec 11 02:58:16 2018  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 20650    | 22.177 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 11448    | 23.172 | ug/l  | 97       |
| 95) Naphthalene            | 15.38 | 128  | 38128    | 21.404 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 18362    | 22.701 | ug/l  | 96       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

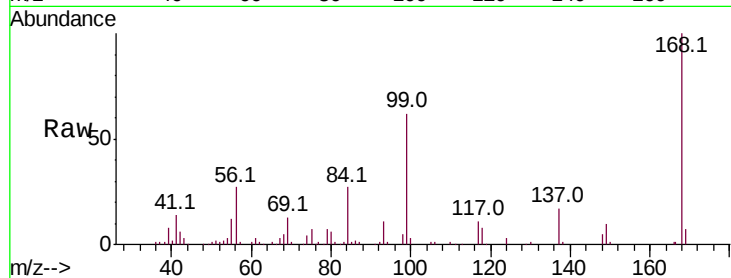
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 58541

Ion Ratio Lower Upper

168 100

99 61.9 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

30000

25000

20000

15000

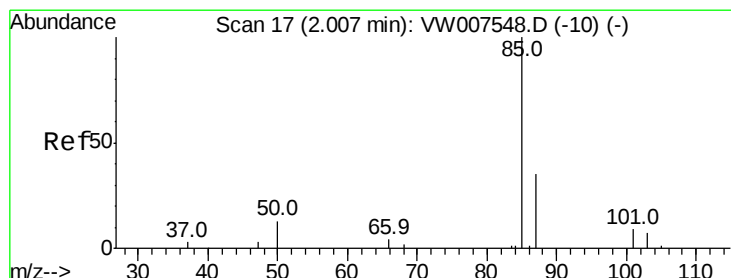
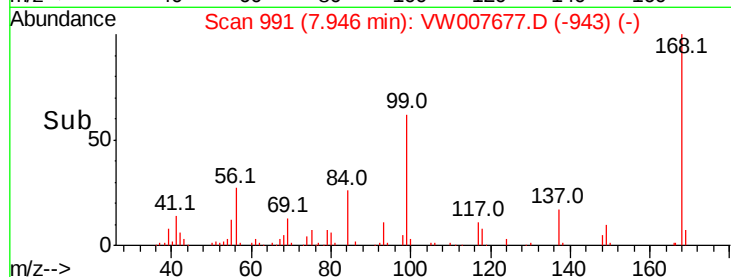
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 20.133 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW007677.D

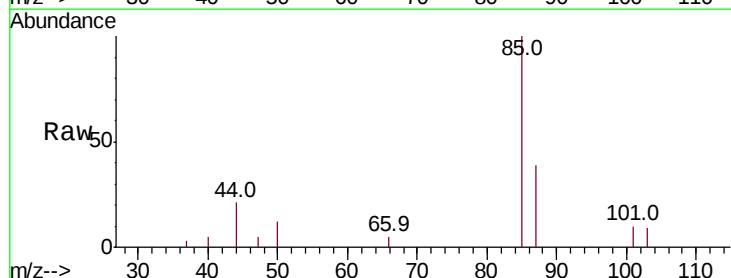
Acq: 19 Dec 2018 01:31

Tgt Ion: 85 Resp: 8236

Ion Ratio Lower Upper

85 100

87 39.1 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

3000

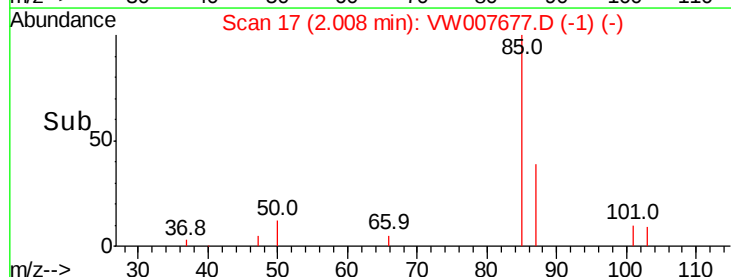
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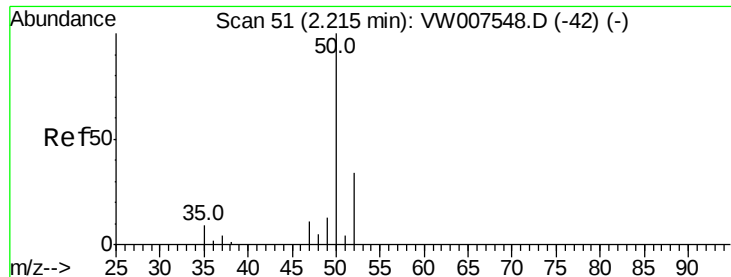
1000

0

1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 20.043 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

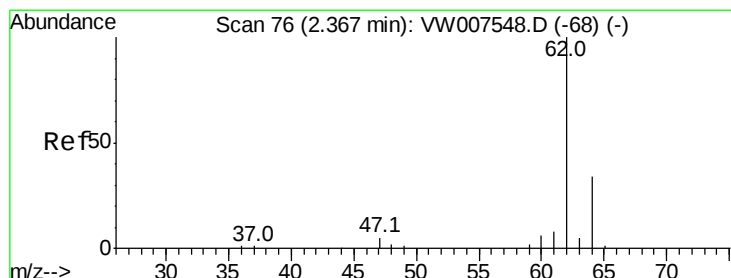
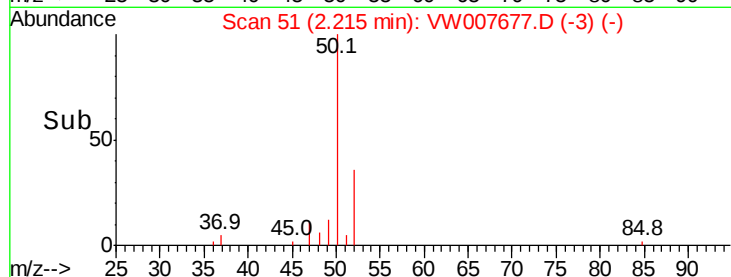
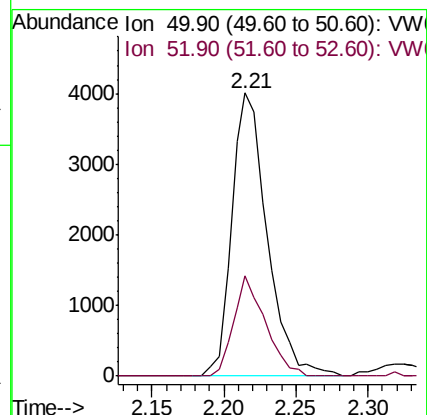
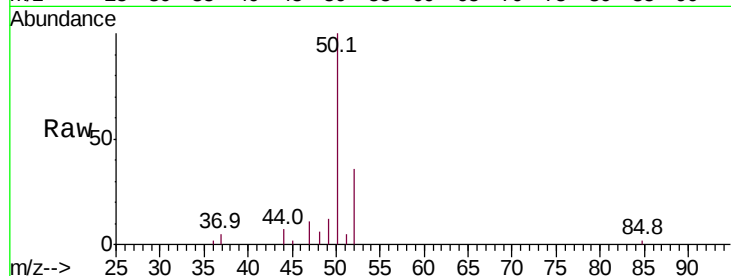
ClientSampled :

Tot Ion: 50 Resp: 6867

Ion Ratio Lower Upper

50 100

52 35.6 27.4 41.0



#4

Vinyl Chloride

Concen: 21.228 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW007677.D

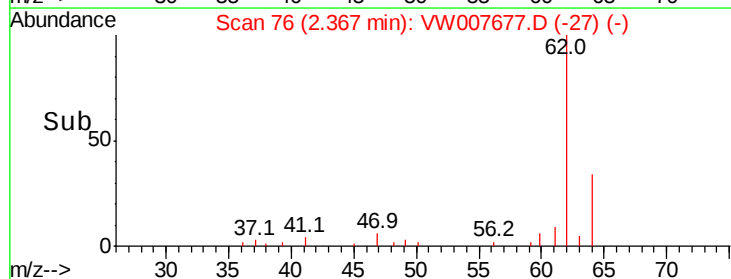
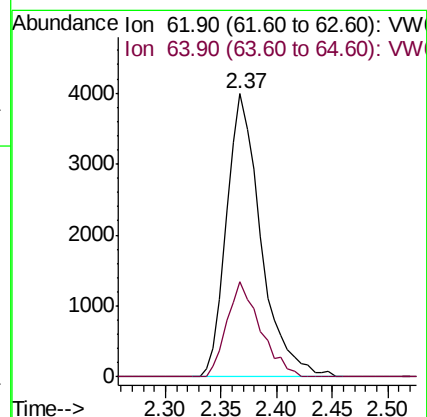
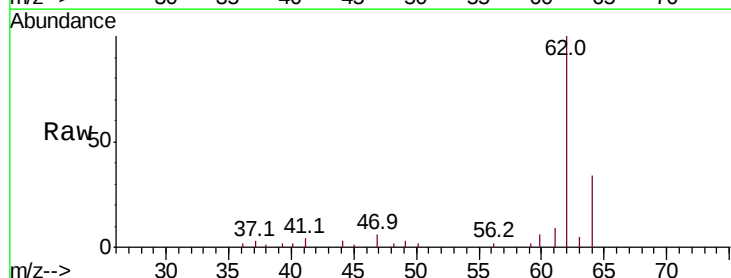
Acq: 19 Dec 2018 01:31

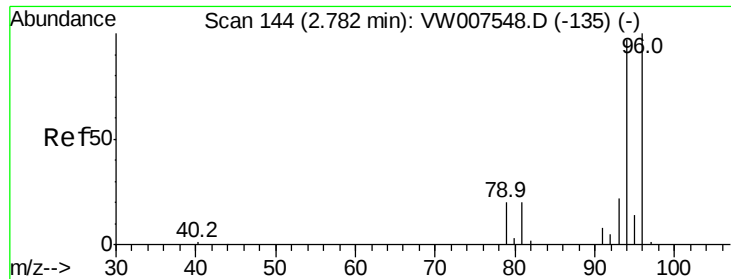
Tgt Ion: 62 Resp: 8535

Ion Ratio Lower Upper

62 100

64 33.7 24.6 37.0





#5

Bromomethane

Concen: 23.066 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

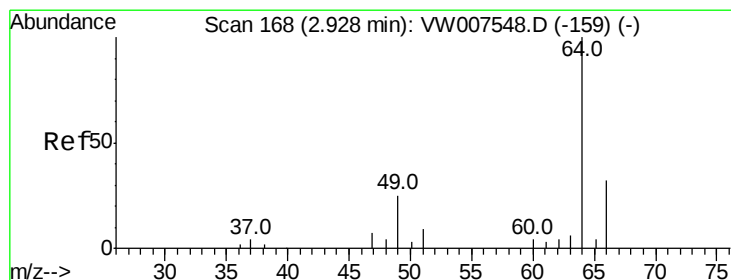
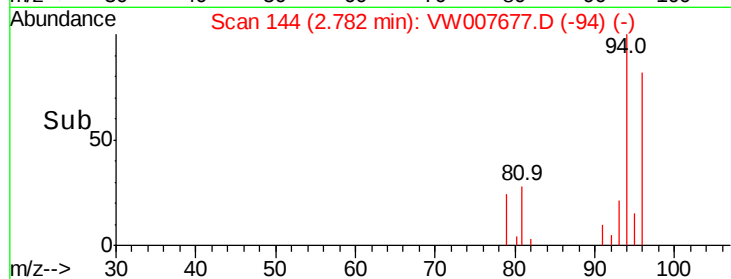
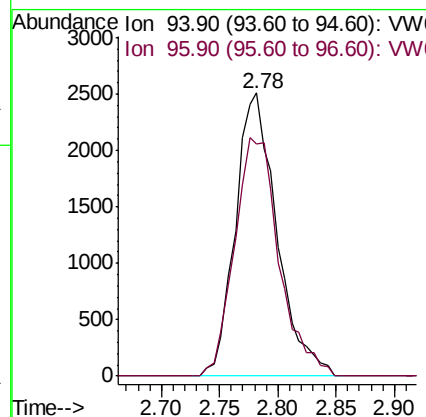
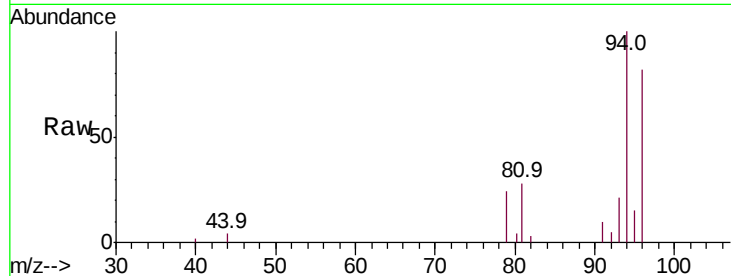
ClientSampleId :

Tot Ion: 94 Resp: 6231

Ion Ratio Lower Upper

94 100

96 82.1 71.0 106.4



#6

Chloroethane

Concen: 22.139 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW007677.D

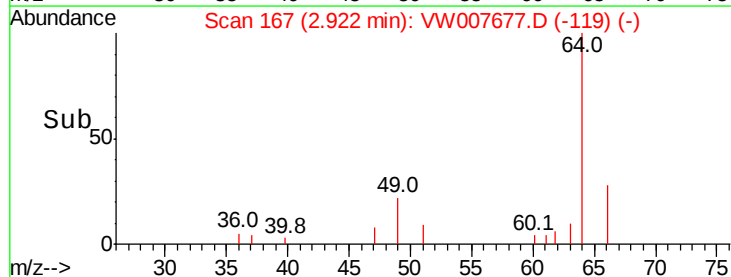
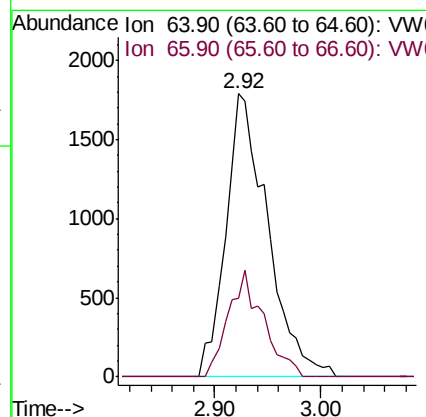
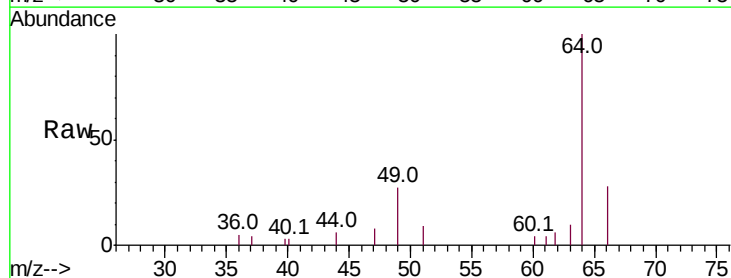
Acq: 19 Dec 2018 01:31

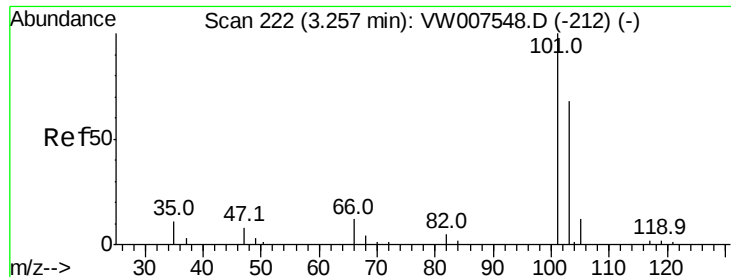
Tgt Ion: 64 Resp: 4900

Ion Ratio Lower Upper

64 100

66 27.8 24.6 37.0



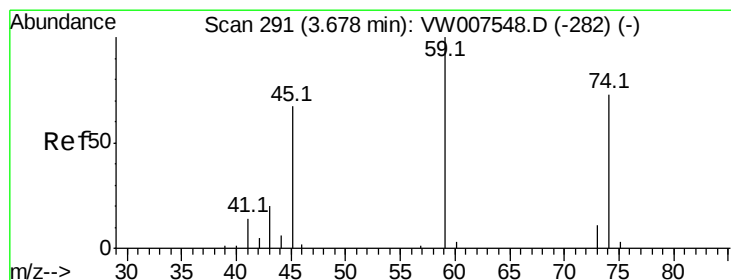
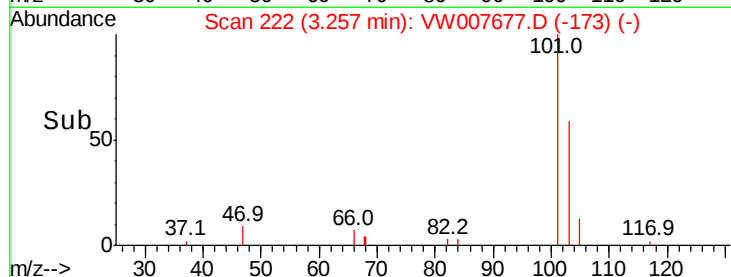
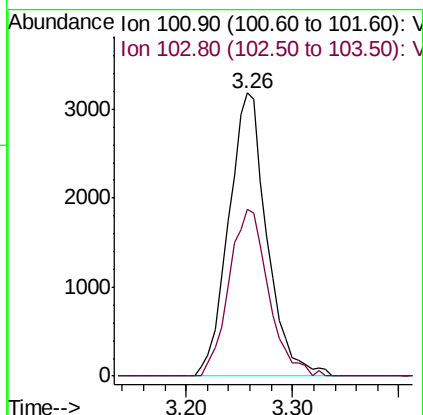
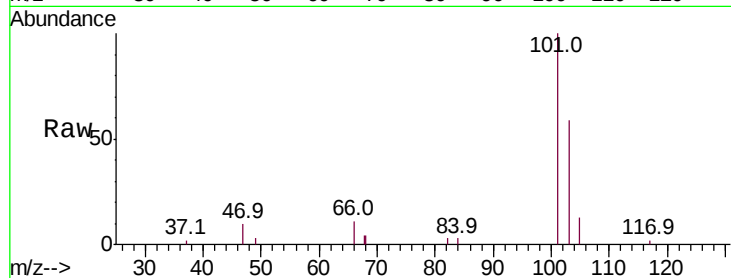


#7

Trichlorofluoromethane  
 Concen: 22.173 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Instrument :  
 MSVOA\_W  
 ClientSampled :

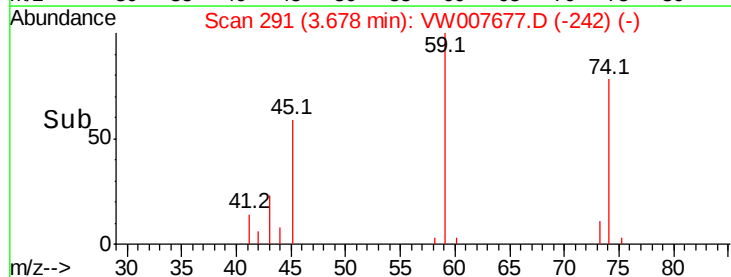
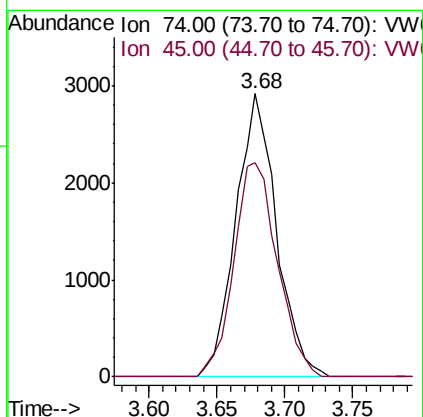
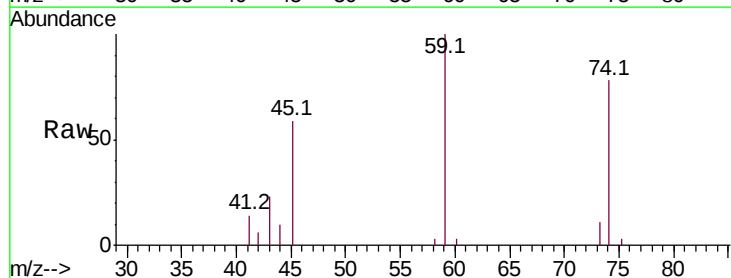
Tot Ion:101 Resp: 8015  
 Ion Ratio Lower Upper  
 101 100  
 103 59.0 51.7 77.5

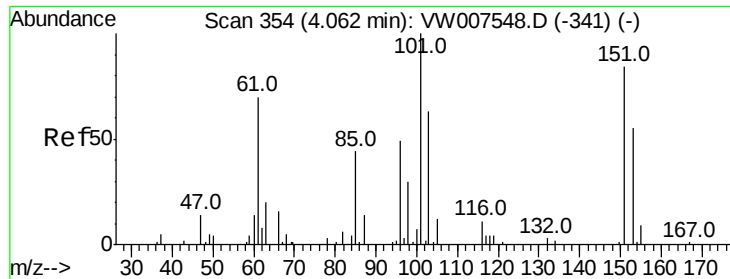


#8

Diethyl Ether  
 Concen: 21.518 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 74 Resp: 6088  
 Ion Ratio Lower Upper  
 74 100  
 45 81.0 43.0 129.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.760 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.02 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampled :

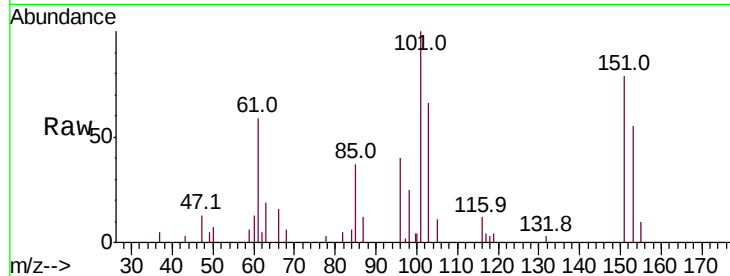
Tot Ion:101 Resp: 12979

Ion Ratio Lower Upper

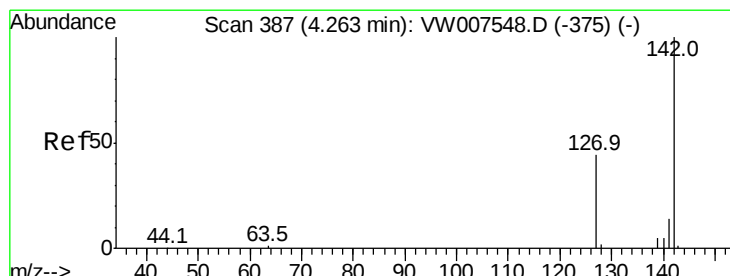
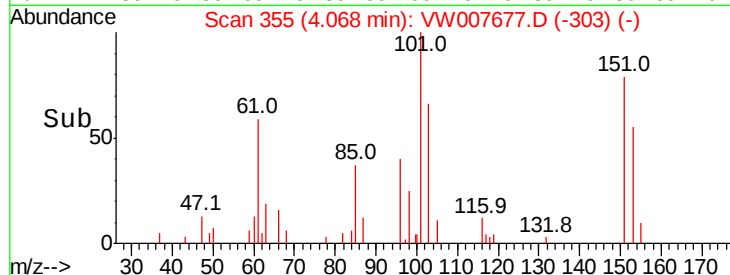
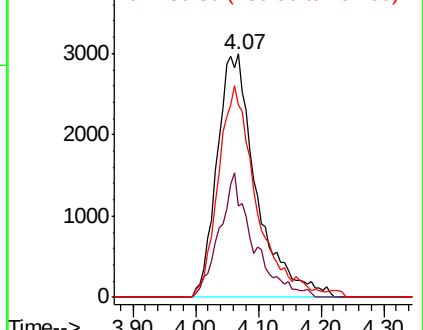
101 100

85 44.1 33.9 50.9

151 84.2 63.7 95.5



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: 22.382 ug/l

RT: 4.26 min Scan# 387

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

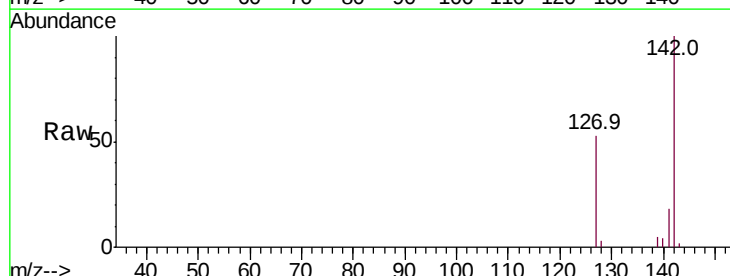
Tgt Ion:142 Resp: 22110

Ion Ratio Lower Upper

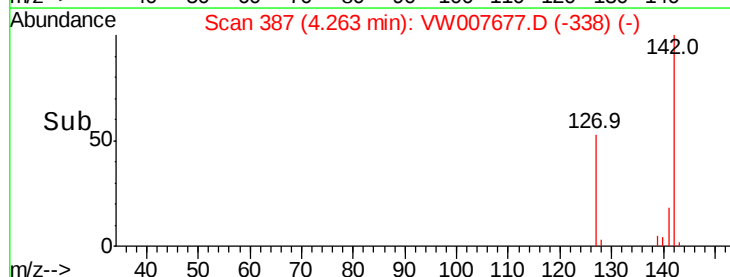
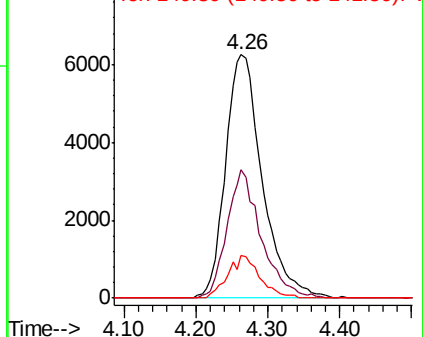
142 100

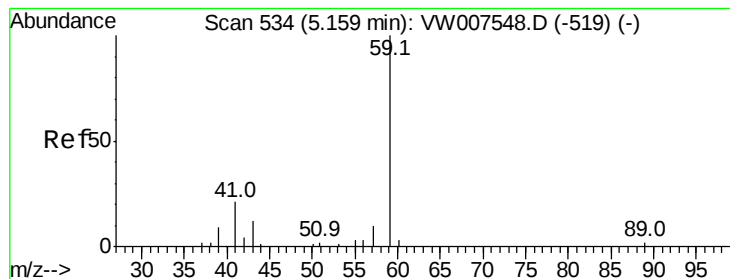
127 49.0 35.8 53.6

141 15.3 11.1 16.7



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



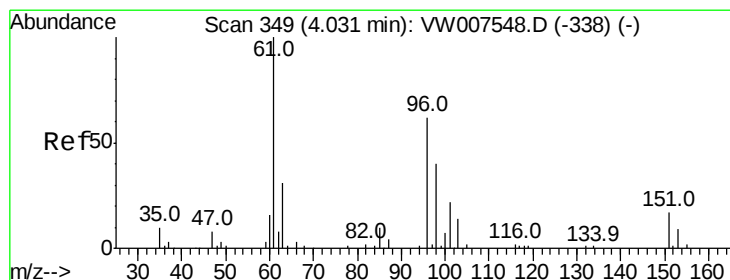
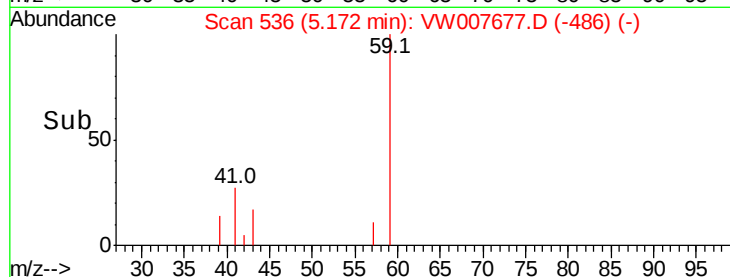
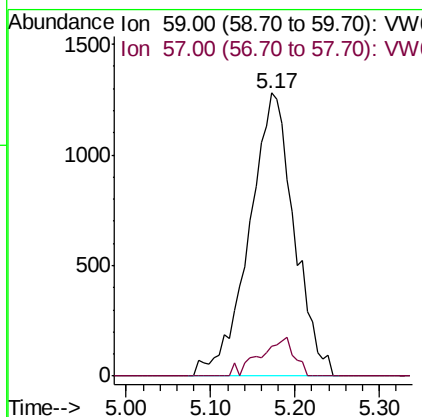
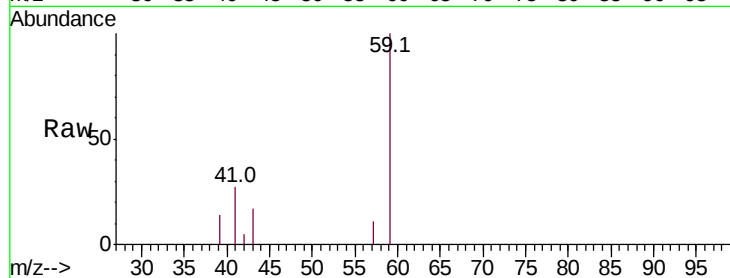


#11

Tert butyl alcohol  
Concen: 105.191 ug/l  
RT: 5.17 min Scan# 536  
Delta R.T. 0.01 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampled :

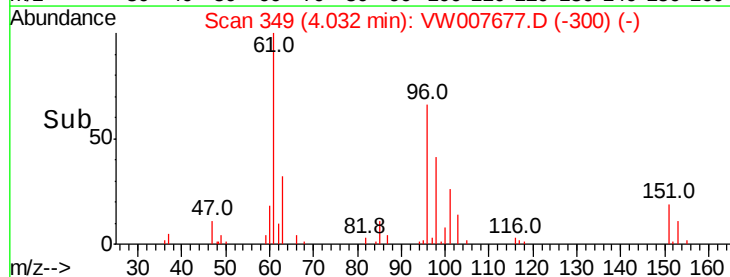
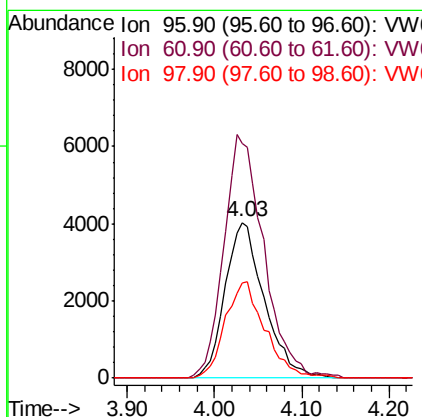
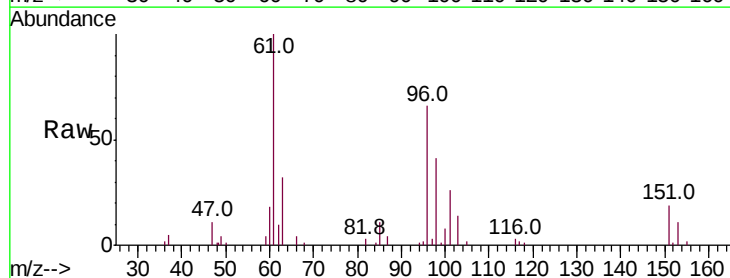
Tot Ion: 59 Resp: 4692  
Ion Ratio Lower Upper  
59 100  
57 10.3 7.6 11.4

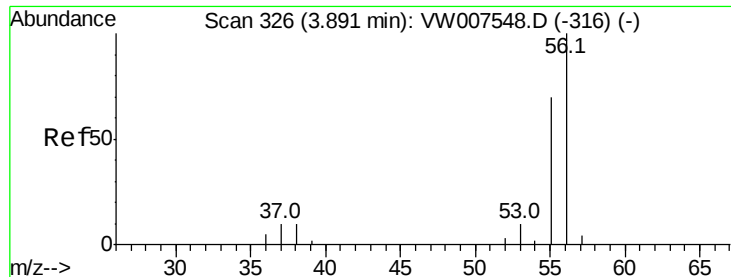


#12

1,1-Dichloroethene  
Concen: 21.950 ug/l  
RT: 4.03 min Scan# 349  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion: 96 Resp: 12605  
Ion Ratio Lower Upper  
96 100  
61 150.6 126.2 189.2  
98 61.1 48.3 72.5





#13

Acrolein

Concen: 92.056 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

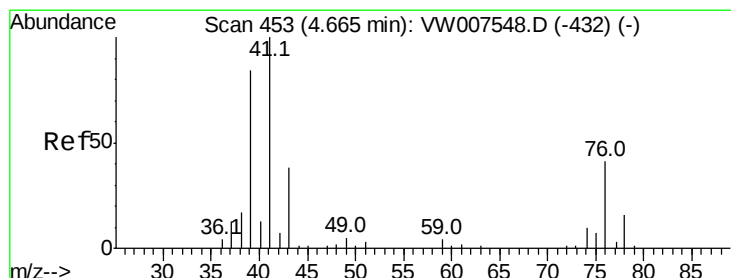
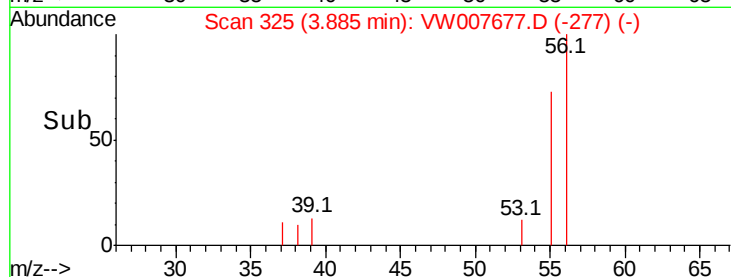
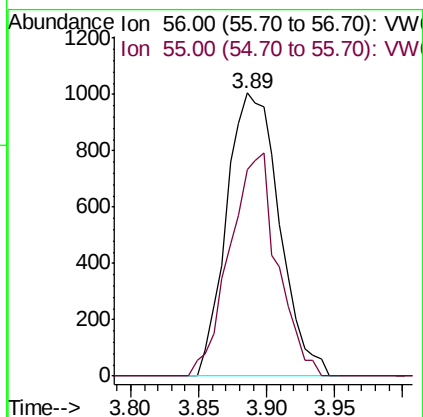
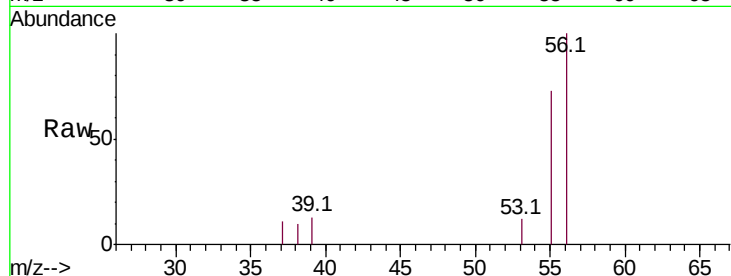
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 2717

Ion Ratio Lower Upper

56 100

55 71.4 57.4 86.2



#14

Allyl chloride

Concen: 20.284 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

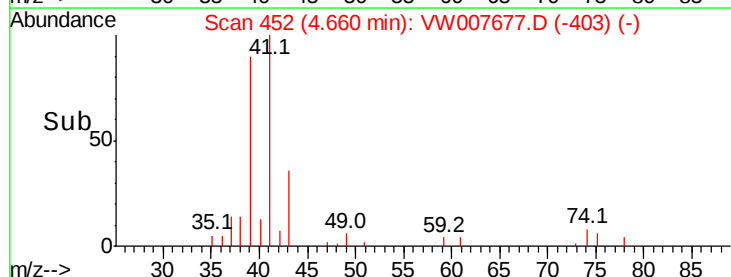
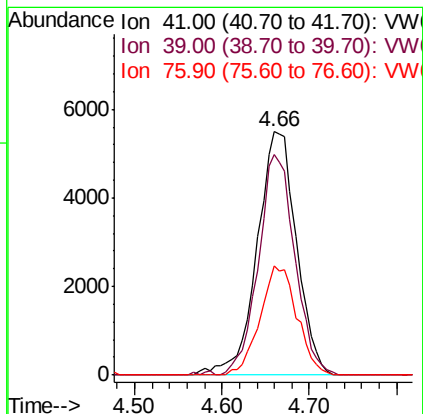
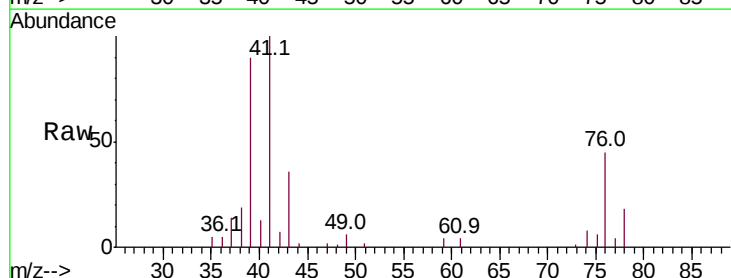
Tgt Ion: 41 Resp: 17170

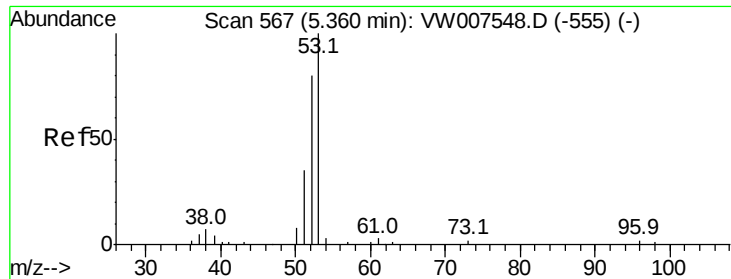
Ion Ratio Lower Upper

41 100

39 84.0 63.4 95.2

76 42.0 32.1 48.1





#15

Acrylonitrile

Concen: 99.323 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

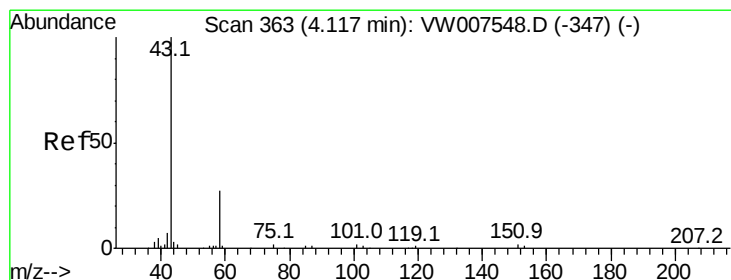
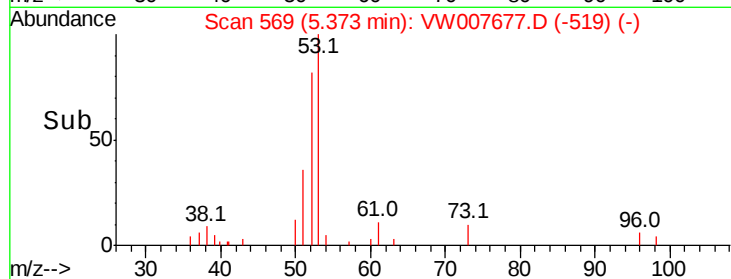
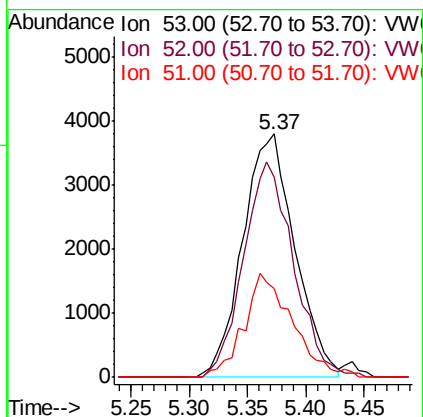
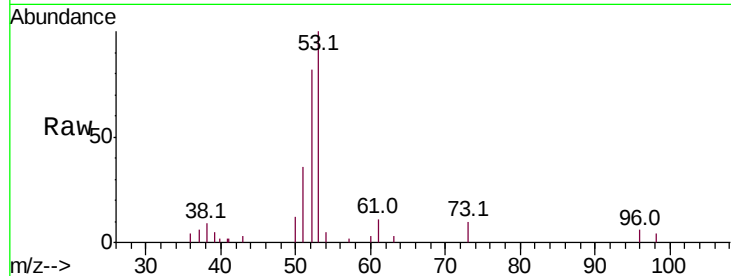
Tot Ion: 53 Resp: 11846

Ion Ratio Lower Upper

53 100

52 85.1 67.4 101.2

51 39.7 30.2 45.2



#16

Acetone

Concen: 96.216 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW007677.D

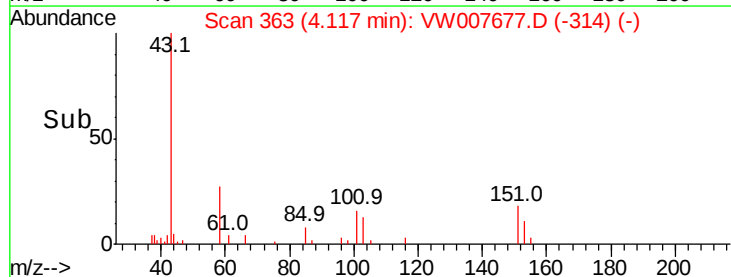
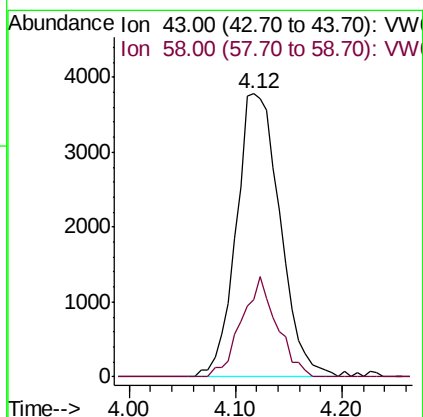
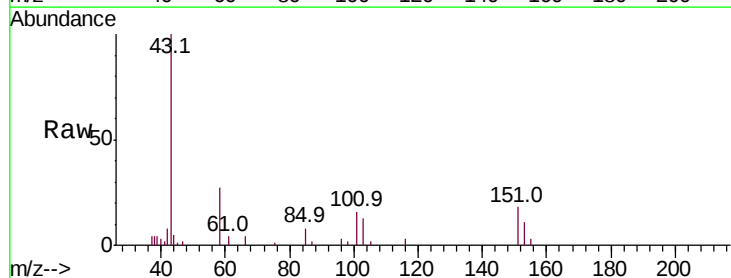
Acq: 19 Dec 2018 01:31

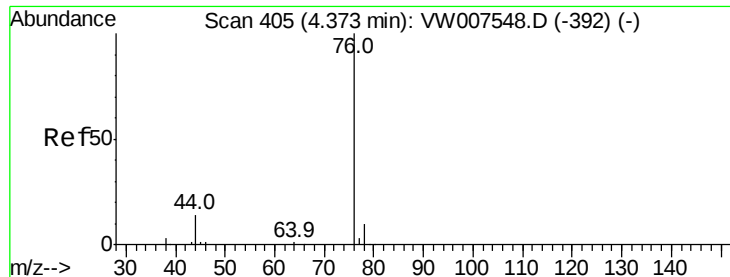
Tgt Ion: 43 Resp: 10915

Ion Ratio Lower Upper

43 100

58 27.4 24.9 37.3





#17

Carbon Disulfide

Concen: 21.308 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

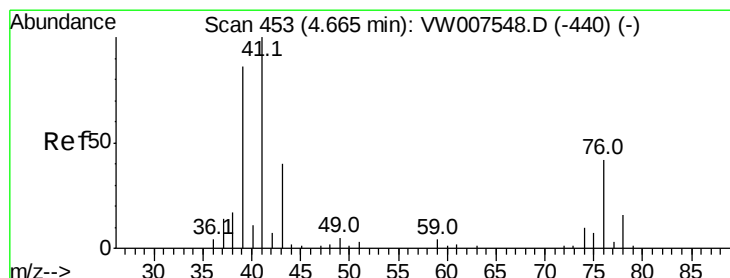
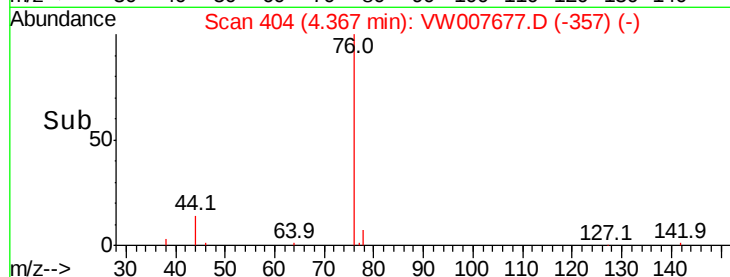
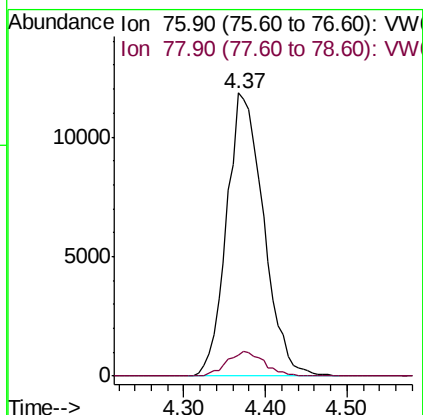
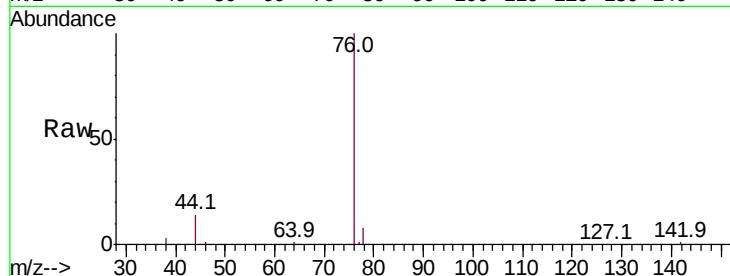
ClientSampleId :

Tot Ion: 76 Resp: 37102

Ion Ratio Lower Upper

76 100

78 7.6 7.1 10.7



#18

Methyl Acetate

Concen: 20.585 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW007677.D

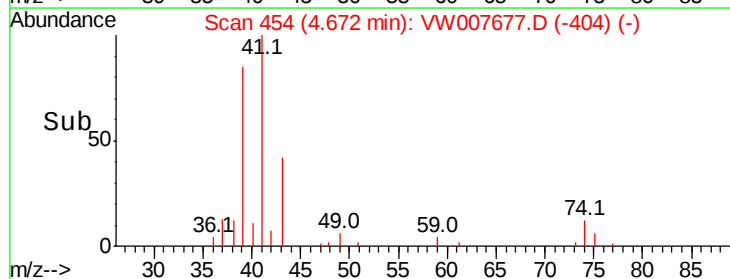
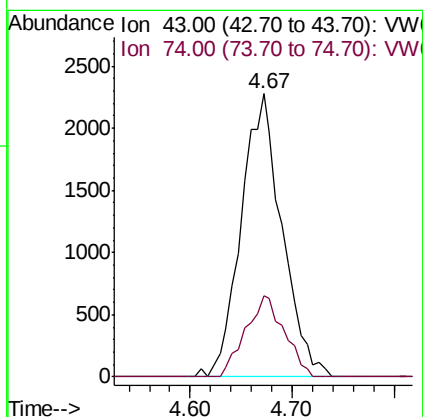
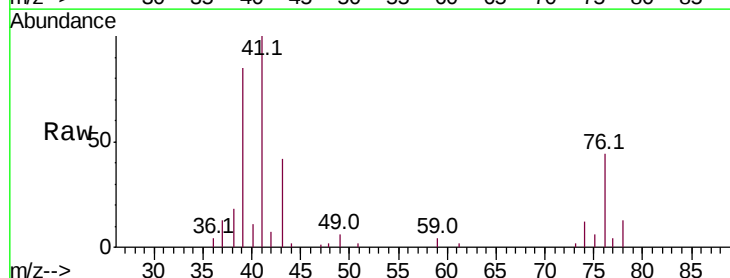
Acq: 19 Dec 2018 01:31

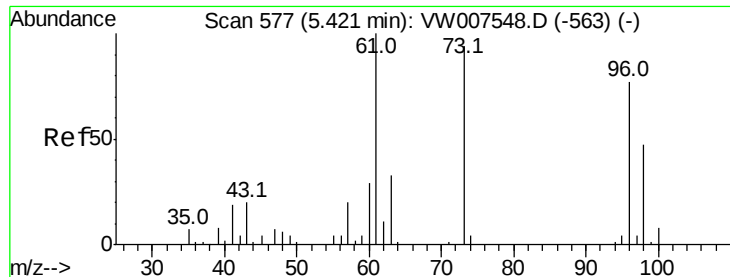
Tgt Ion: 43 Resp: 6338

Ion Ratio Lower Upper

43 100

74 27.0 21.1 31.7



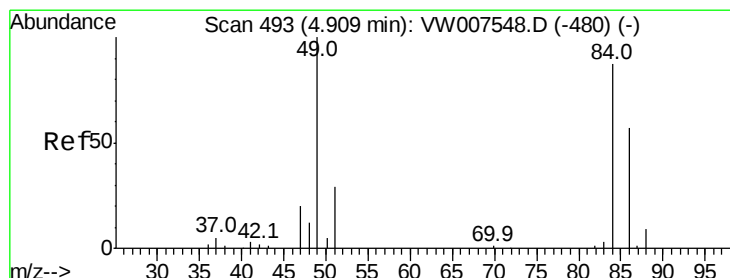
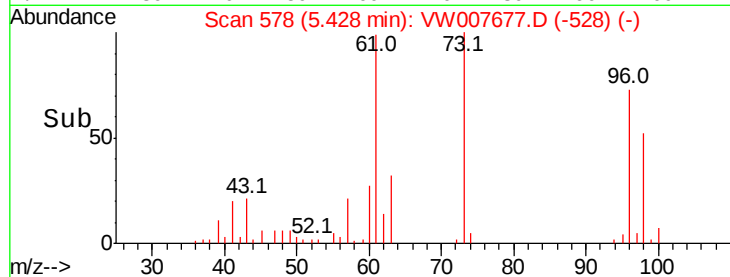
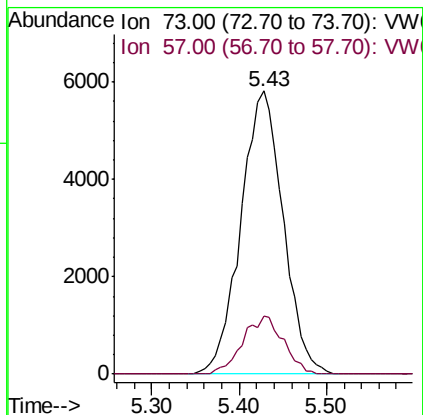
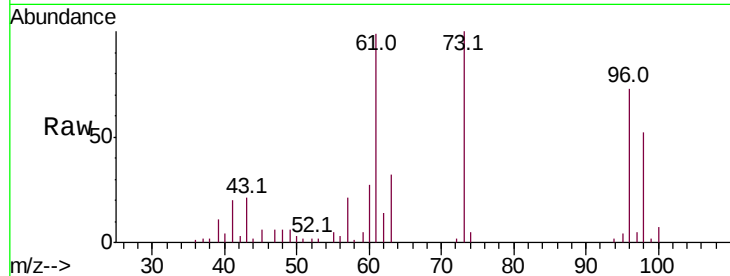


#19

Methyl tert-butyl Ether  
 Concen: 22.576 ug/l  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Instrument :  
 MSVOA\_W  
 ClientSampleId :

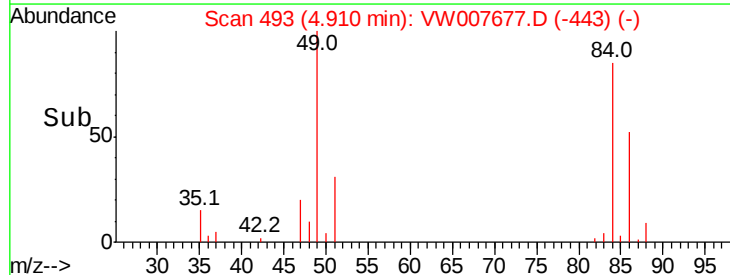
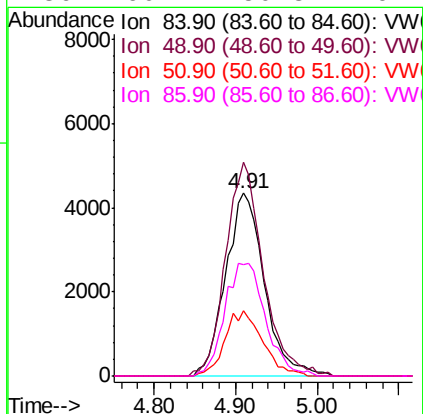
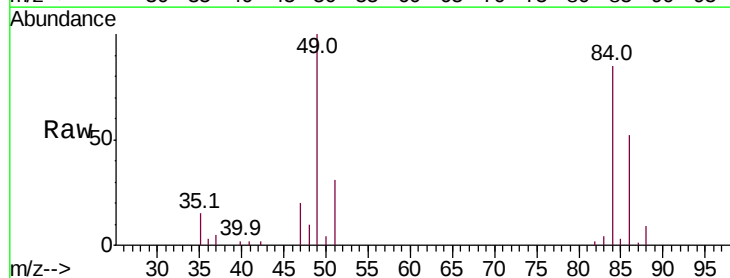
Tot Ion: 73 Resp: 19558  
 Ion Ratio Lower Upper  
 73 100  
 57 20.6 16.4 24.6

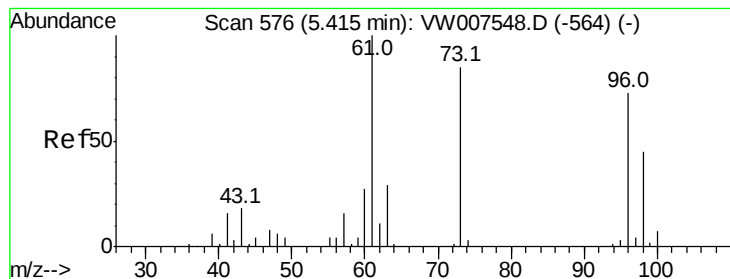


#20

Methylene Chloride  
 Concen: 20.765 ug/l  
 RT: 4.91 min Scan# 493  
 Delta R.T. 0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 84 Resp: 14303  
 Ion Ratio Lower Upper  
 84 100  
 49 117.0 87.1 130.7  
 51 36.0 28.2 42.2  
 86 60.7 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.877 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampled :

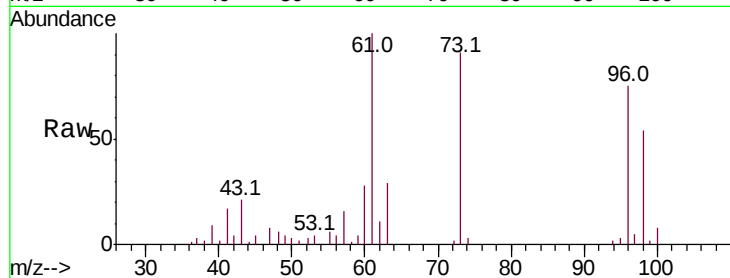
Tot Ion: 96 Resp: 14054

Ion Ratio Lower Upper

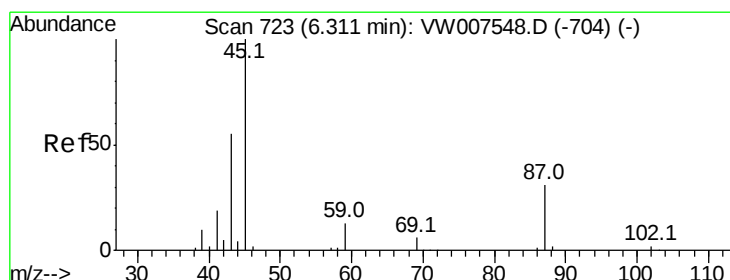
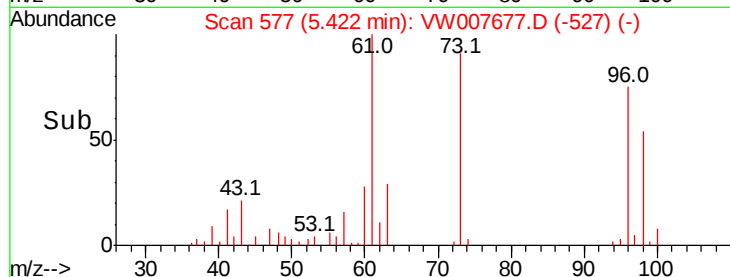
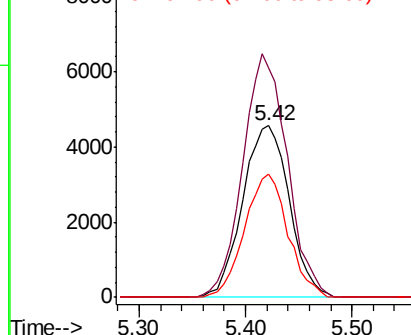
96 100

61 133.8 105.0 157.6

98 71.8 49.7 74.5



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



#22

Diisopropyl ether

Concen: 20.635 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Tgt Ion: 45 Resp: 33574

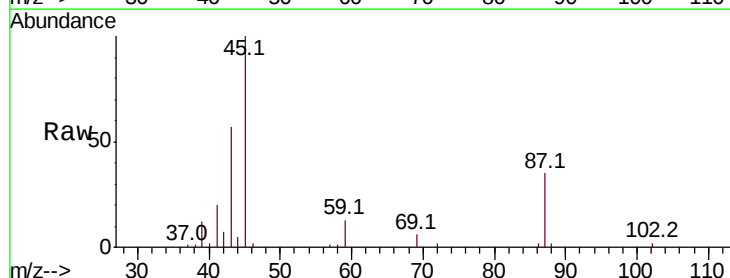
Ion Ratio Lower Upper

45 100

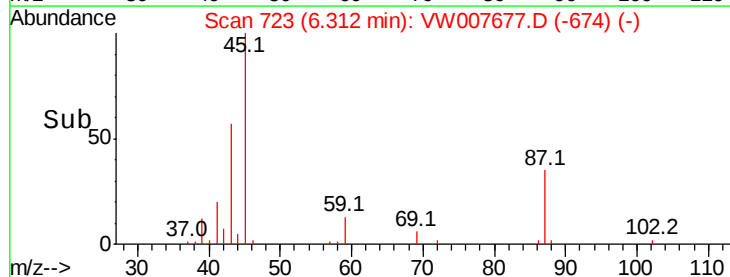
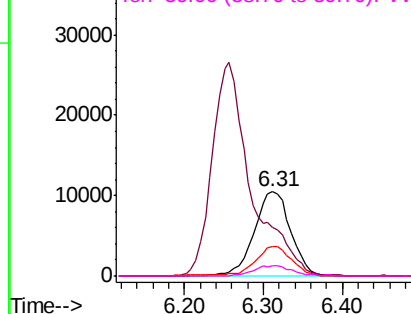
43 56.3 41.6 62.4

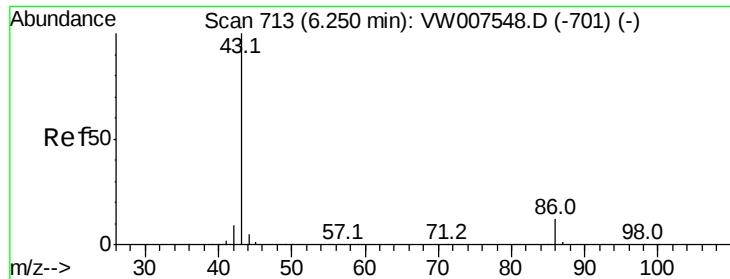
87 34.5 24.3 36.5

59 12.8 9.4 14.0



Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 100.584 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

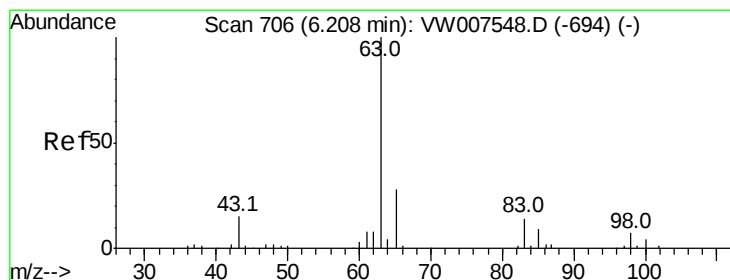
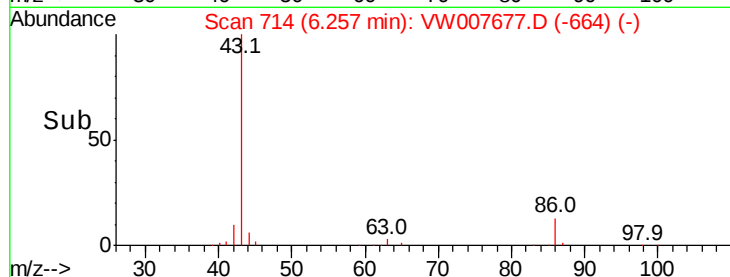
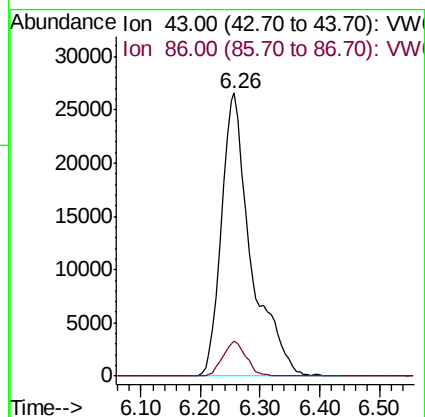
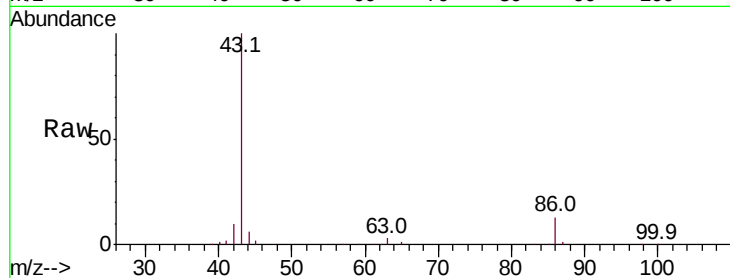
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 91539

Ion Ratio Lower Upper

43 100

86 12.5 8.6 12.8



#24

1,1-Dichloroethane

Concen: 22.007 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

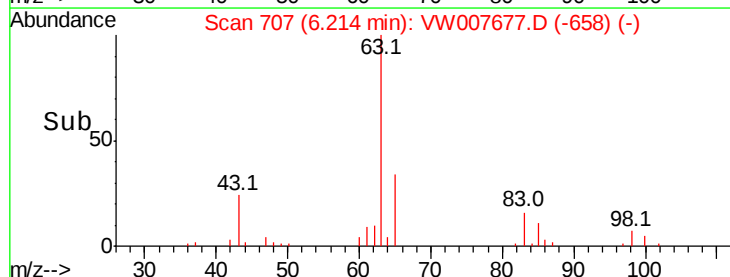
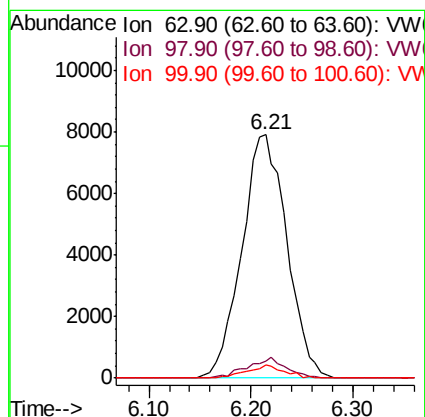
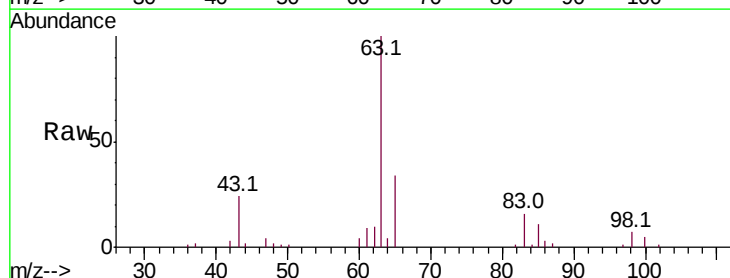
Tgt Ion: 63 Resp: 24201

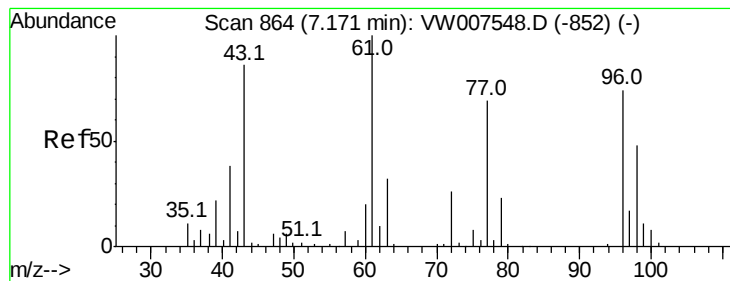
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

100 5.3 2.5 7.5





#25

2-Butanone

Concen: 97.347 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

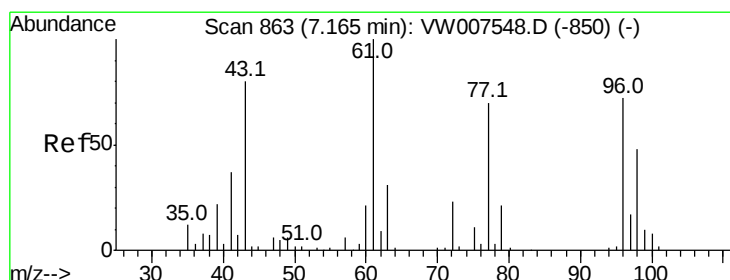
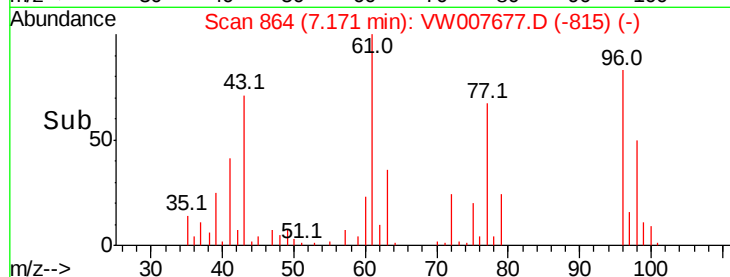
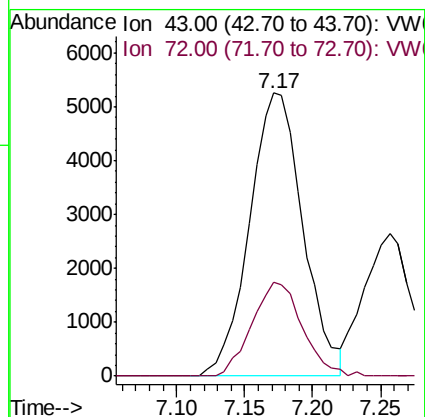
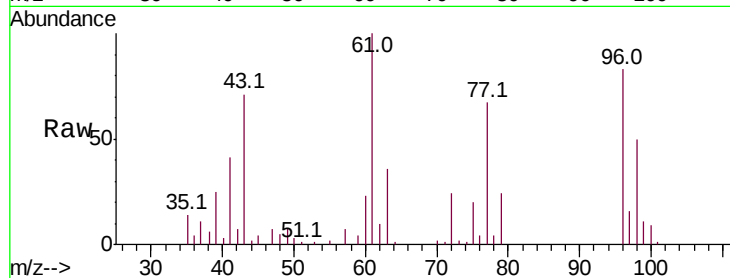
ClientSampled :

Tot Ion: 43 Resp: 14417

Ion Ratio Lower Upper

43 100

72 33.1 23.4 35.2



#26

2,2-Dichloropropane

Concen: 22.082 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW007677.D

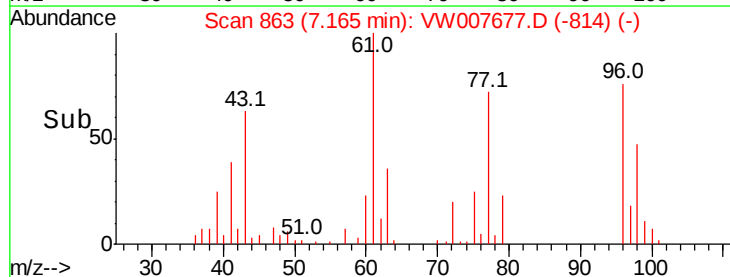
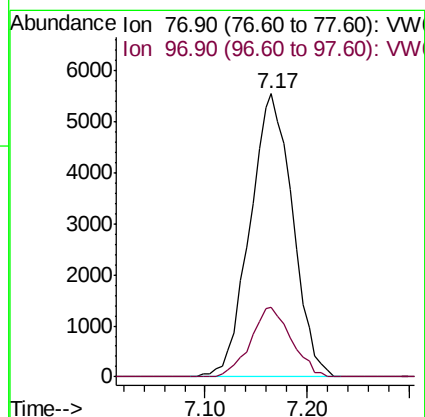
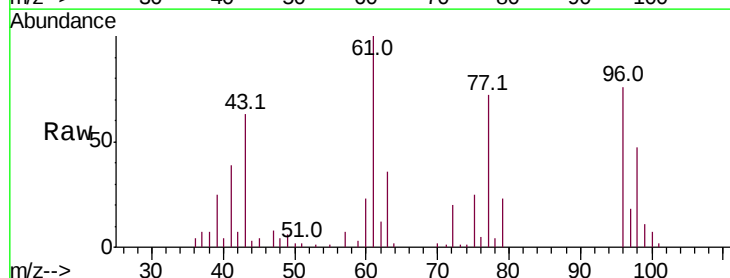
Acq: 19 Dec 2018 01:31

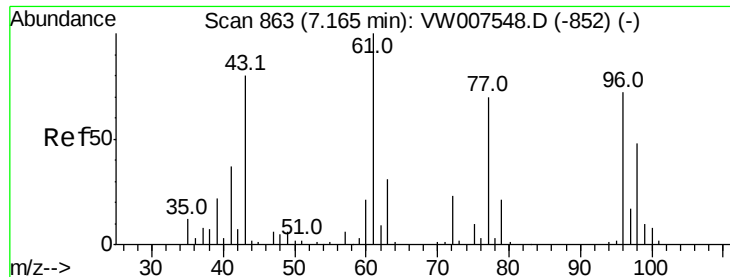
Tgt Ion: 77 Resp: 16071

Ion Ratio Lower Upper

77 100

97 23.5 11.6 34.8



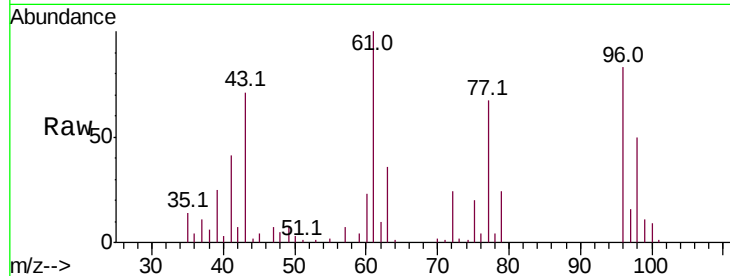


#27

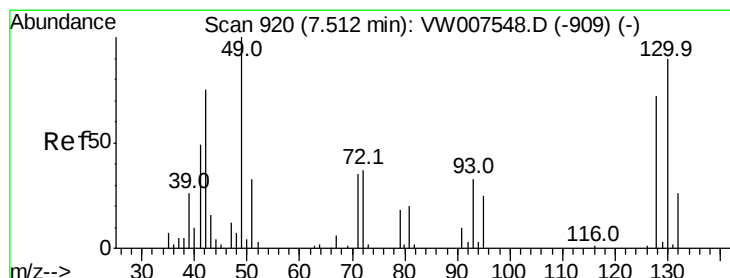
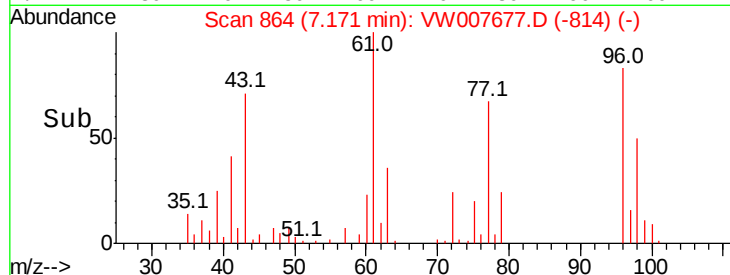
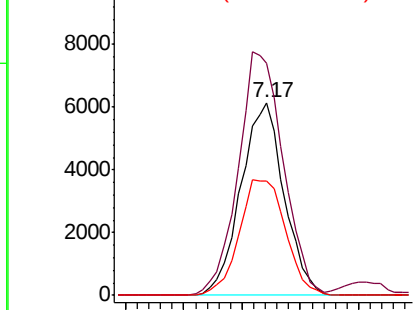
cis-1,2-Dichloroethene  
 Concen: 22.522 ug/l  
 RT: 7.17 min Scan# 864  
 Delta R.T. 0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 96 Resp: 15842  
 Ion Ratio Lower Upper  
 96 100  
 61 131.4 0.0 268.4  
 98 64.3 0.0 127.8



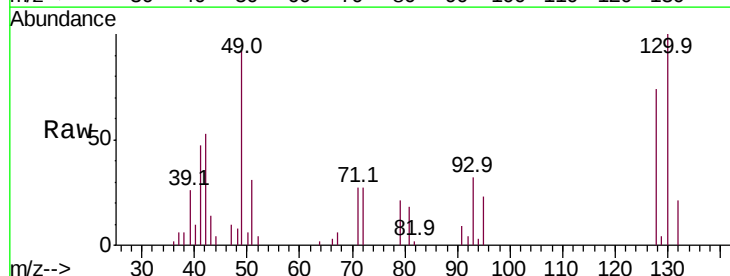
Abundance Ion 95.90 (95.60 to 96.60): VW  
 Ion 60.90 (60.60 to 61.60): VW  
 Ion 97.90 (97.60 to 98.60): VW



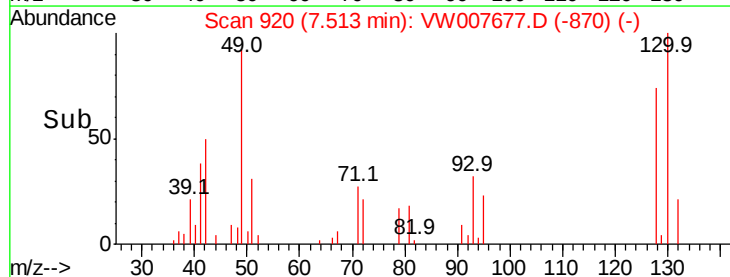
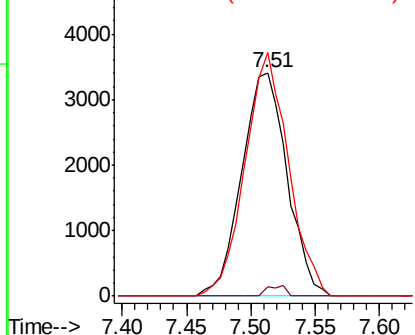
#28

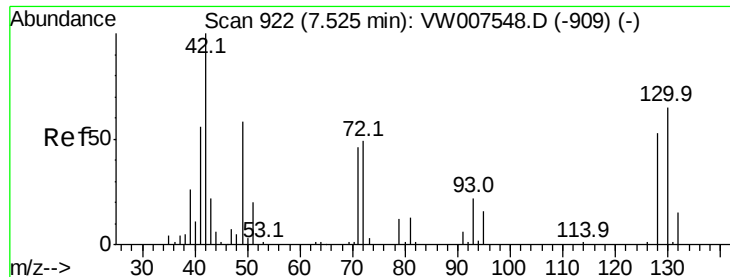
Bromochloromethane  
 Concen: 20.064 ug/l  
 RT: 7.51 min Scan# 920  
 Delta R.T. 0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 49 Resp: 8299  
 Ion Ratio Lower Upper  
 49 100  
 129 1.9 0.0 2.6  
 130 104.3 75.9 113.9



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





#29

Tetrahydrofuran

Concen: 97.785 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampleId :

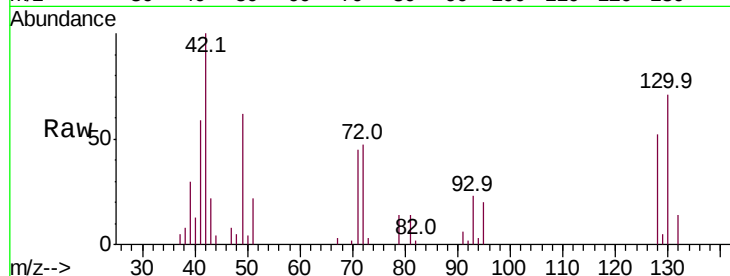
Tot Ion: 42 Resp: 9168

Ion Ratio Lower Upper

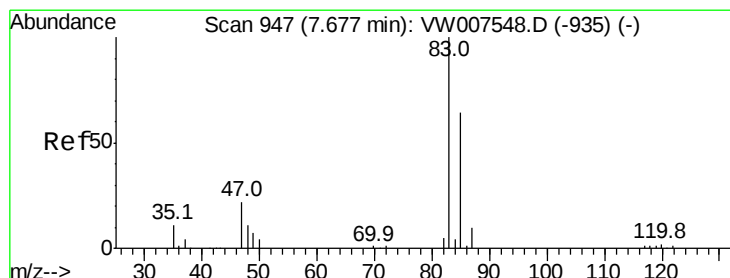
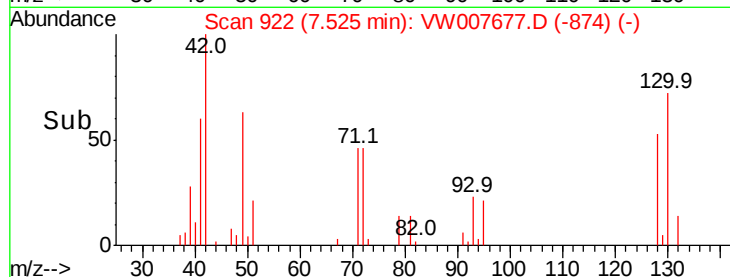
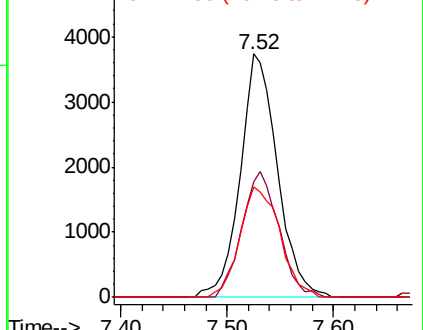
42 100

72 51.3 38.2 57.4

71 49.0 35.5 53.3



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



#30

Chloroform

Concen: 22.663 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW007677.D

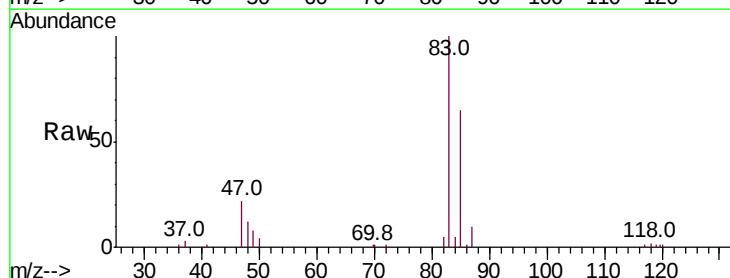
Acq: 19 Dec 2018 01:31

Tgt Ion: 83 Resp: 27121

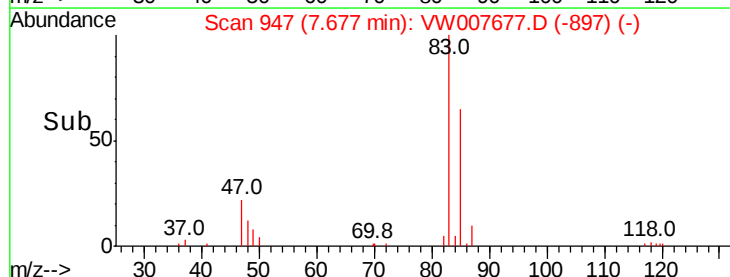
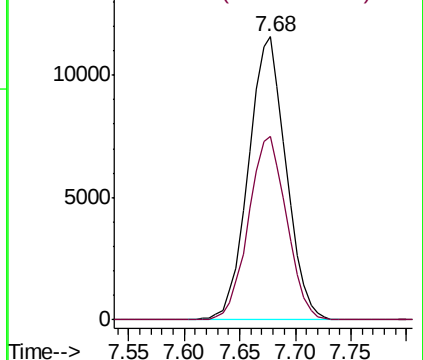
Ion Ratio Lower Upper

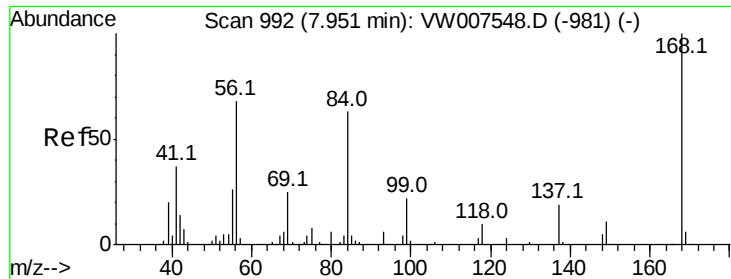
83 100

85 65.0 51.8 77.8



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

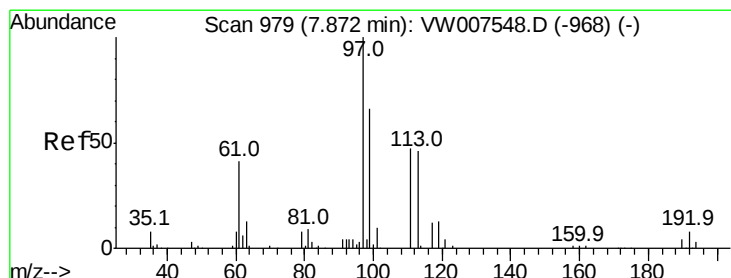
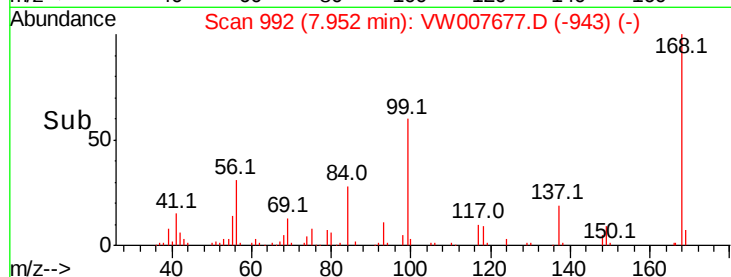
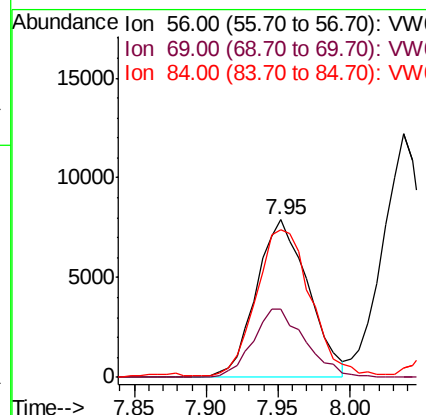
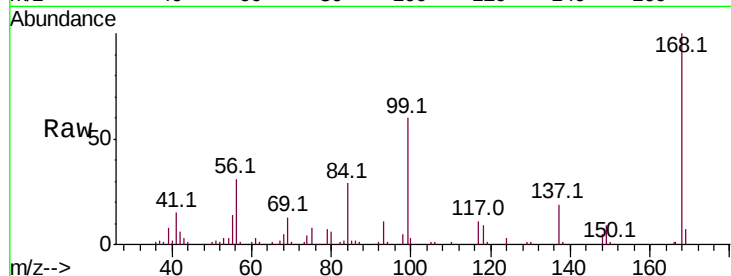




#31  
Cyclohexane  
Concen: 19.701 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

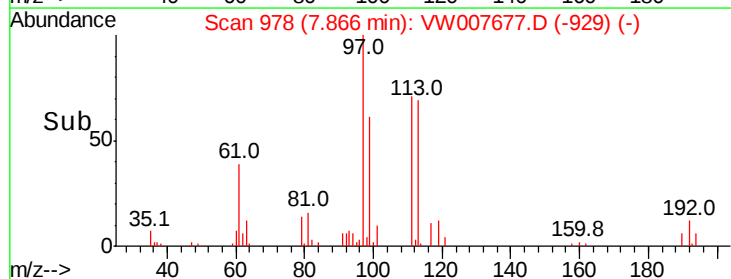
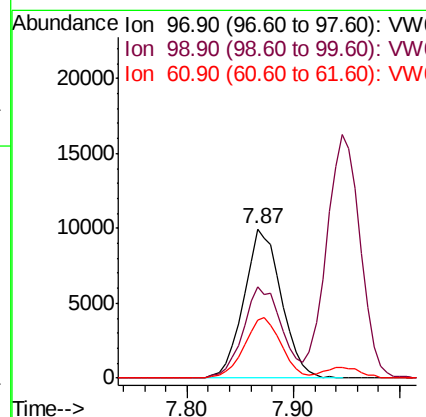
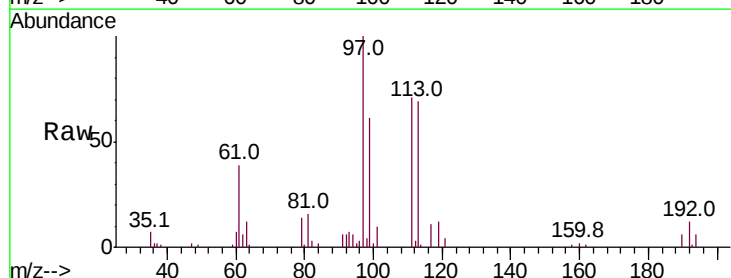
Instrument :  
MSVOA\_W  
ClientSampleId :

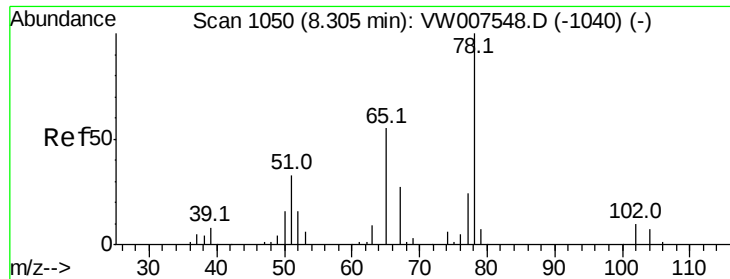
| Tot Ion   | 56    | Resp  | 19877 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 43.2  | 28.9  | 43.3  |
| 84        | 92.7  | 71.8  | 107.6 |



#32  
1,1,1-Trichloroethane  
Concen: 23.436 ug/l  
RT: 7.87 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

| Tgt Ion   | 97    | Resp  | 24595 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 63.2  | 51.1  | 76.7  |
| 61        | 40.2  | 33.2  | 49.8  |

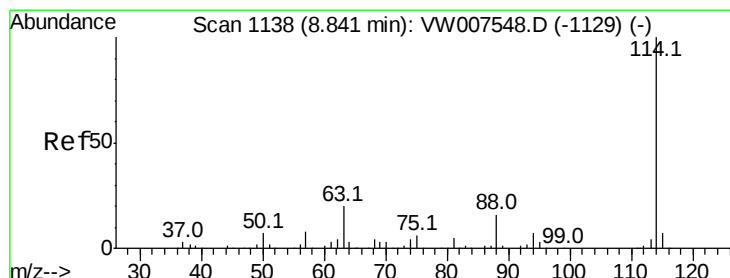
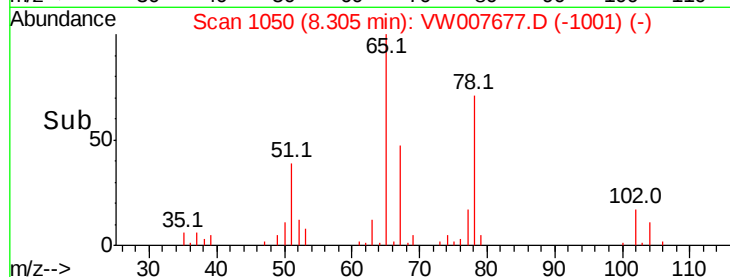
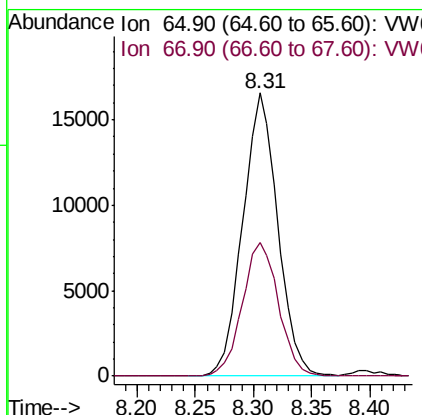
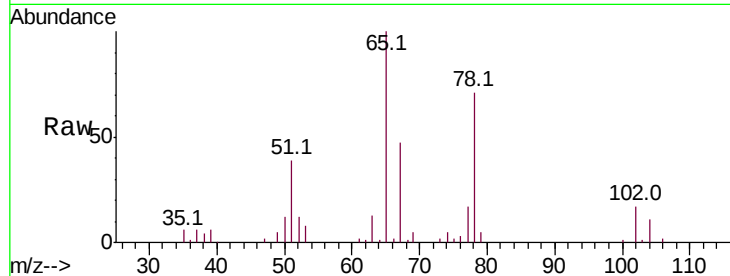




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.415 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

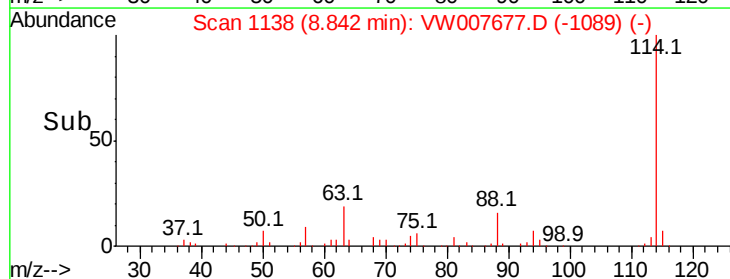
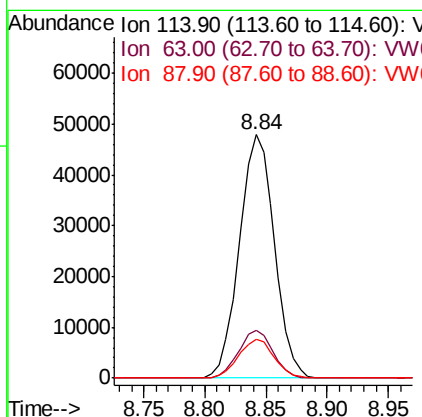
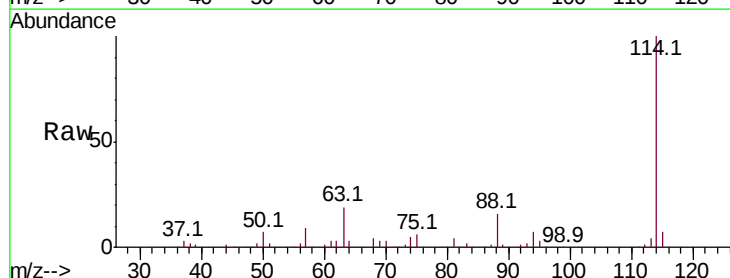
Instrument :  
 MSVOA\_W  
 ClientSampleId :

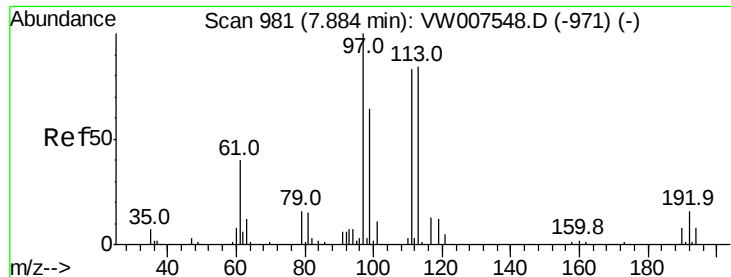
Tot Ion: 65 Resp: 34691  
 Ion Ratio Lower Upper  
 65 100  
 67 48.8 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 114 Resp: 95066  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 39.6  
 88 16.1 0.0 31.4

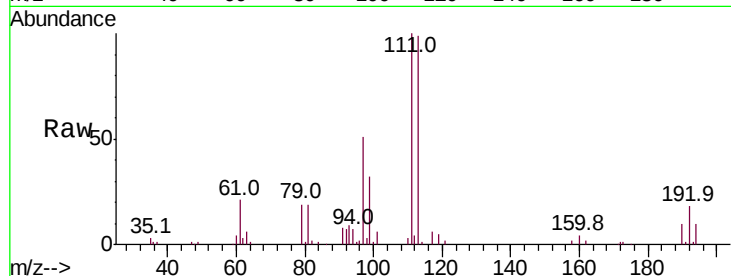




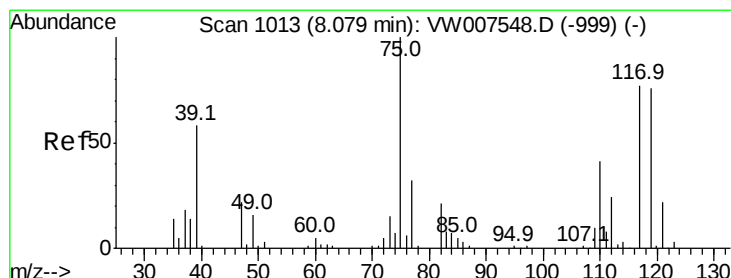
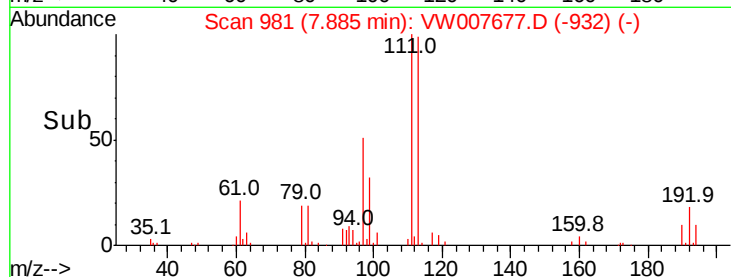
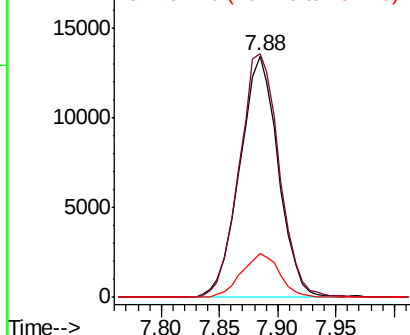
#35  
 Dibromofluoromethane  
 Concen: 53.671 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:113 Resp: 30886  
 Ion Ratio Lower Upper  
 113 100  
 111 104.8 81.1 121.7  
 192 17.9 14.6 21.8

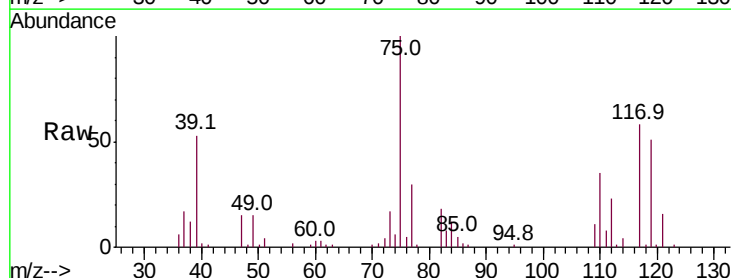


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

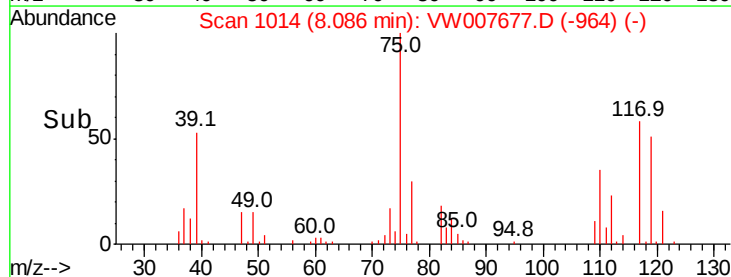
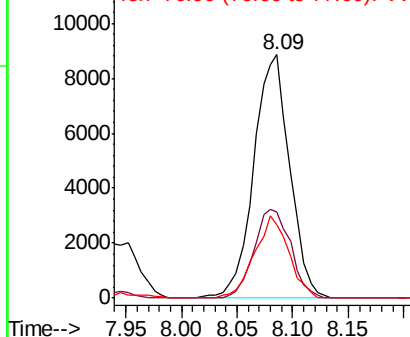


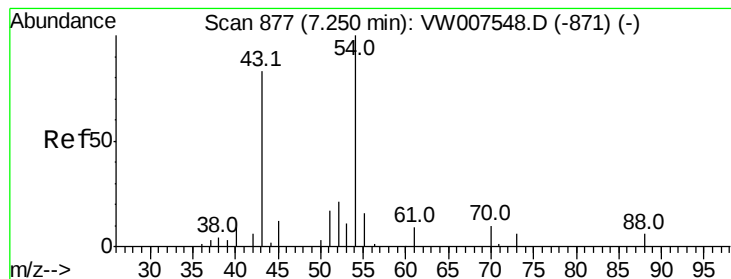
#36  
 1,1-Dichloropropene  
 Concen: 22.988 ug/l  
 RT: 8.09 min Scan# 1014  
 Delta R.T. 0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 75 Resp: 19936  
 Ion Ratio Lower Upper  
 75 100  
 110 37.0 18.5 55.5  
 77 31.8 25.6 38.4



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 21.007 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

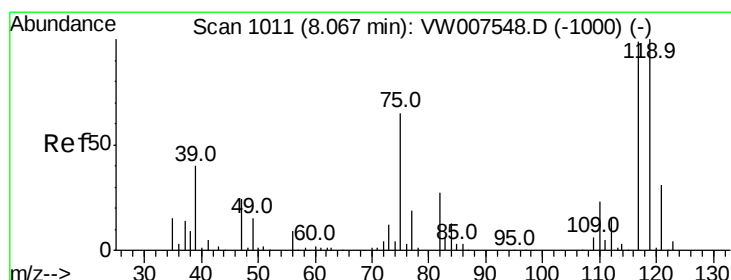
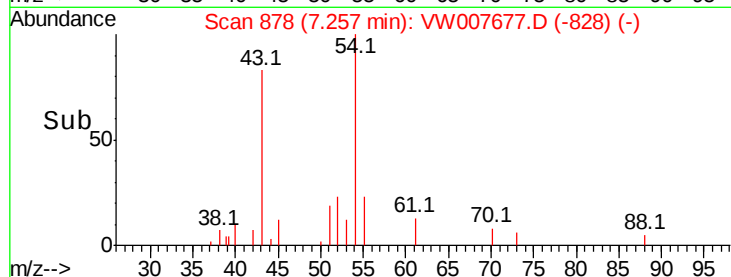
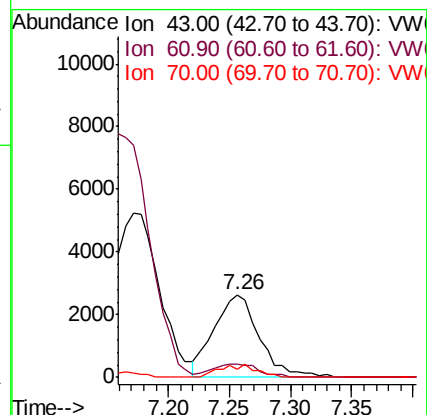
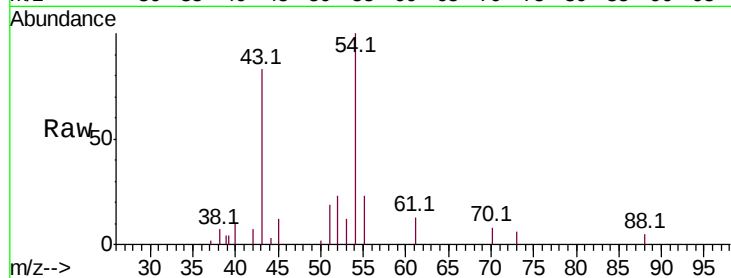
Tot Ion: 43 Resp: 6776

Ion Ratio Lower Upper

43 100

61 16.6 12.1 18.1

70 13.0 10.0 15.0



#38

Carbon Tetrachloride

Concen: 24.466 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

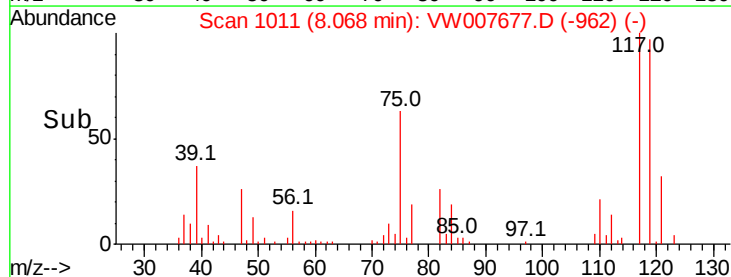
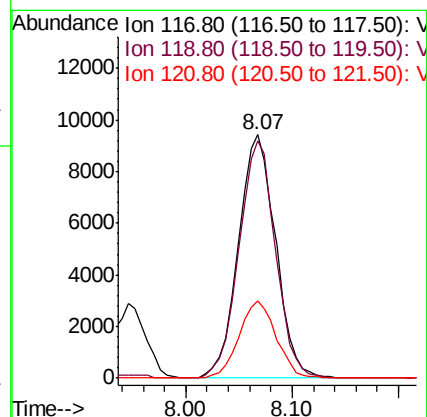
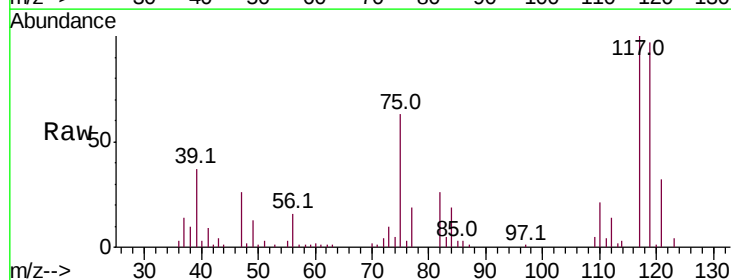
Tgt Ion: 117 Resp: 23086

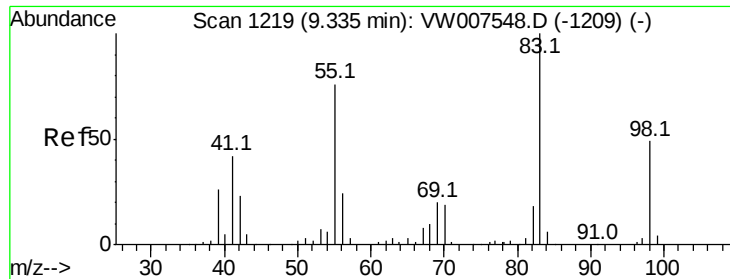
Ion Ratio Lower Upper

117 100

119 97.3 74.3 111.5

121 31.7 24.3 36.5

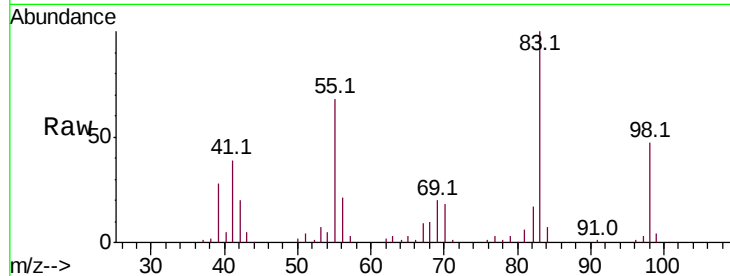




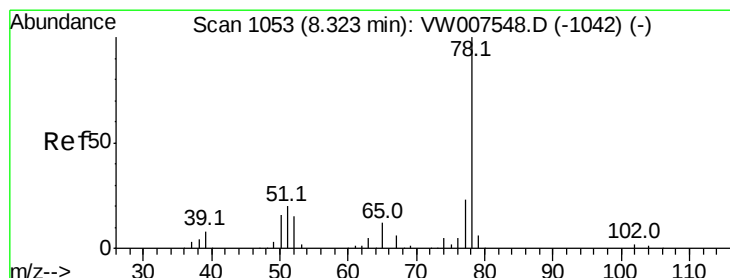
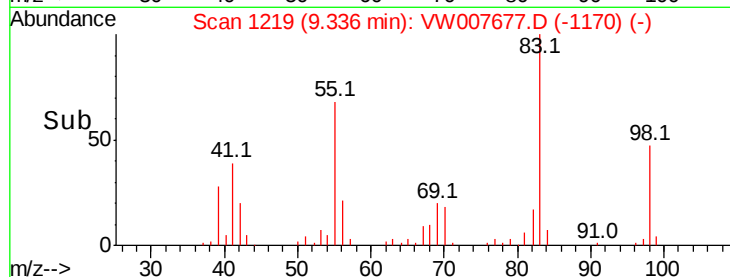
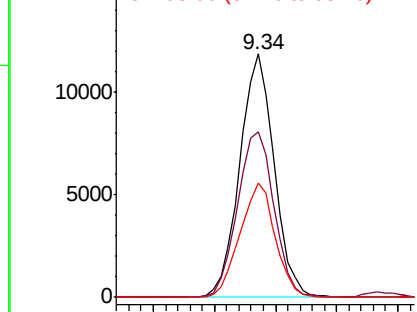
#39  
Methvlcvclohexane  
Concen: 22.010 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 83 Resp: 23113  
Ion Ratio Lower Upper  
83 100  
55 68.0 62.8 94.2  
98 47.0 42.2 63.2

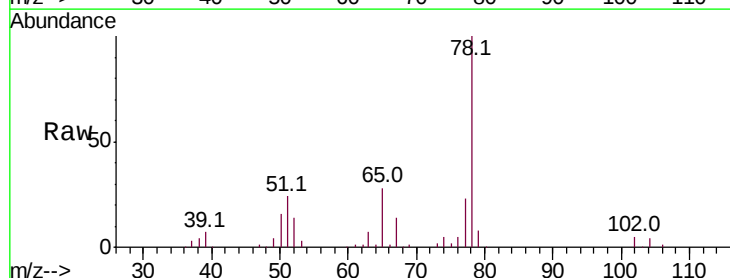


Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 55.00 (54.70 to 55.70): VW  
Ion 98.00 (97.70 to 98.70): VW

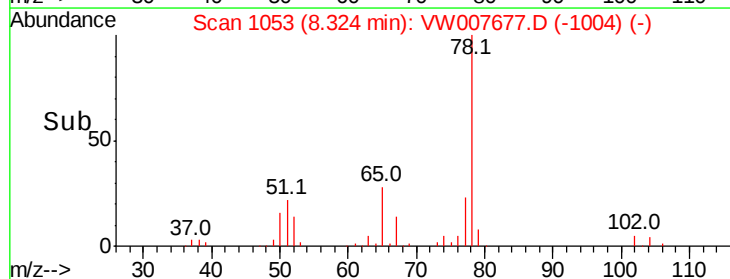
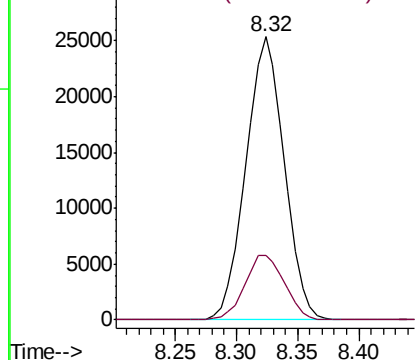


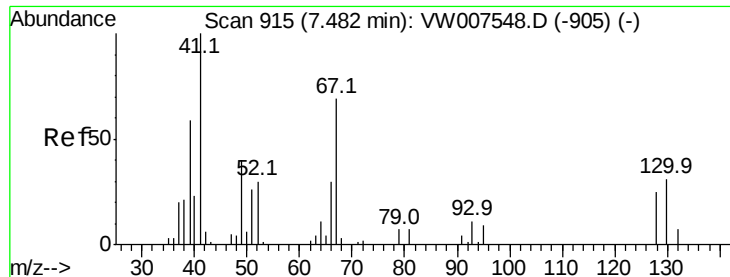
#40  
Benzene  
Concen: 23.005 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion: 78 Resp: 55367  
Ion Ratio Lower Upper  
78 100  
77 22.9 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VW  
Ion 77.00 (76.70 to 77.70): VW





#41

Methacrylonitrile

Concen: 24.929 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 41 Resp: 4579

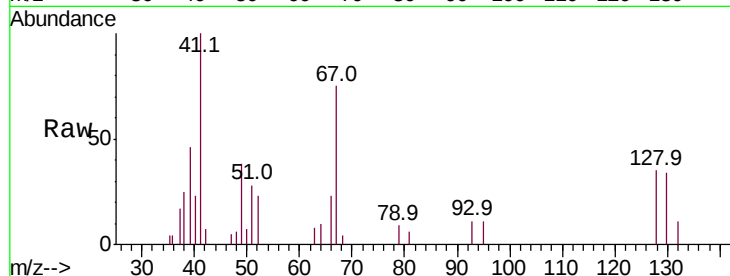
Ion Ratio Lower Upper

41 100

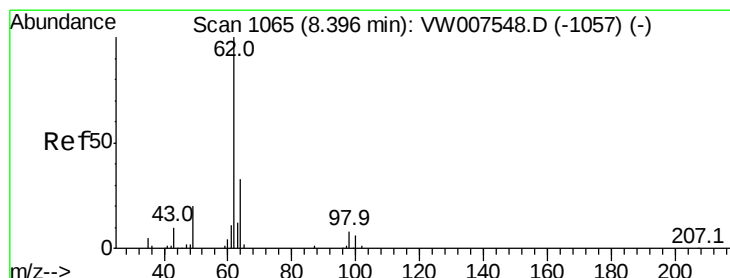
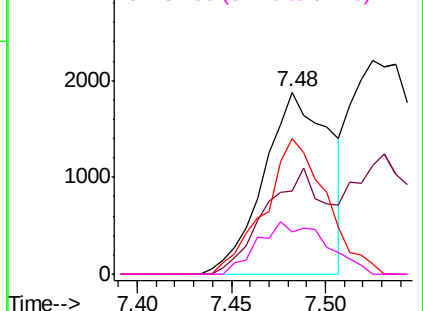
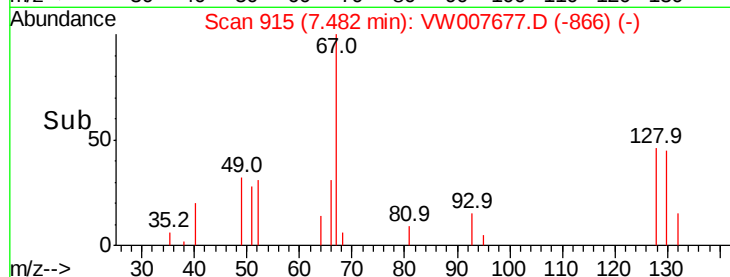
39 54.9 52.2 78.2

67 69.0 60.5 90.7

52 29.4 25.3 37.9



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: 24.255 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW007677.D

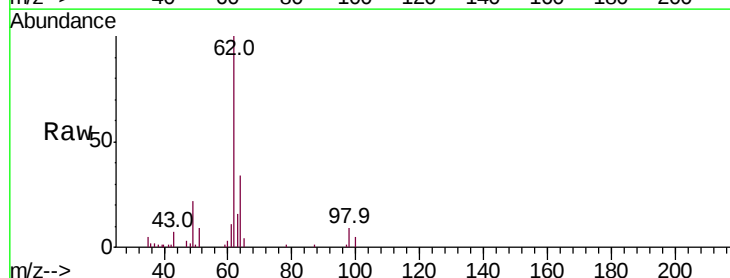
Acq: 19 Dec 2018 01:31

Tgt Ion: 62 Resp: 18337

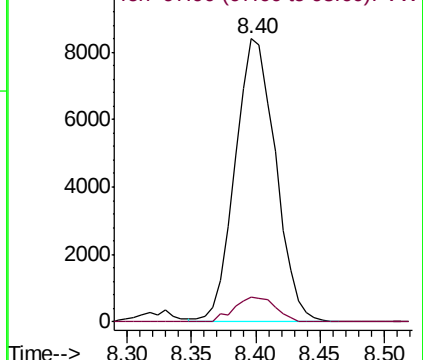
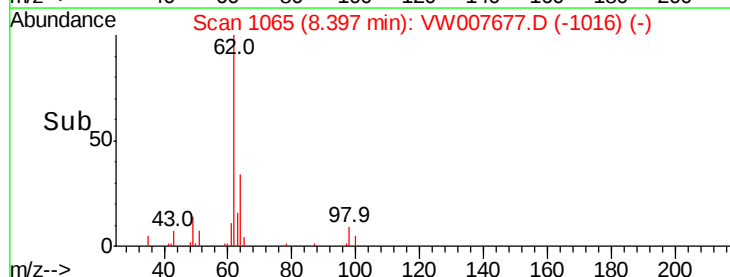
Ion Ratio Lower Upper

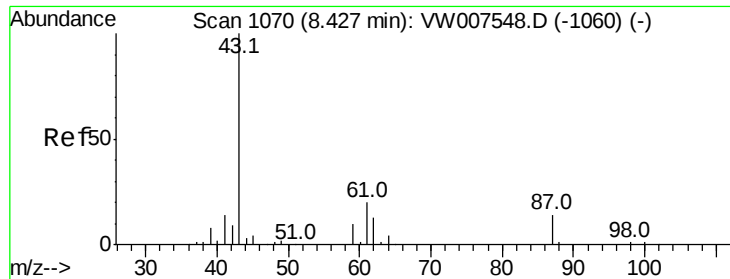
62 100

98 8.8 0.0 17.6



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





#43

Isopropyl Acetate

Concen: 20.716 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampleId :

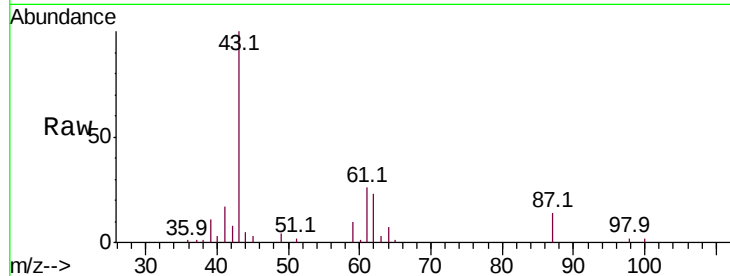
Tot Ion: 43 Resp: 13199

Ion Ratio Lower Upper

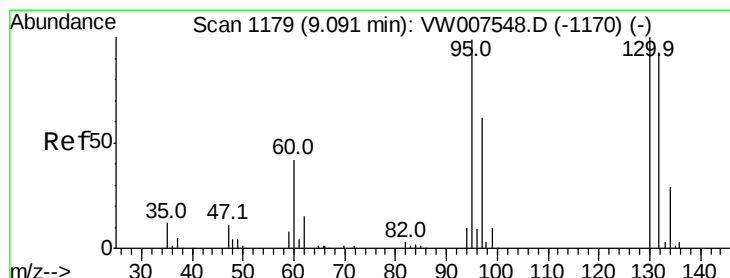
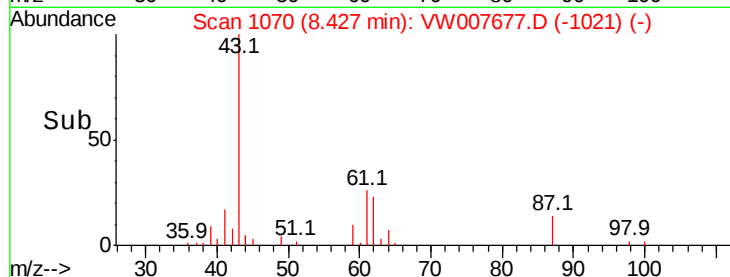
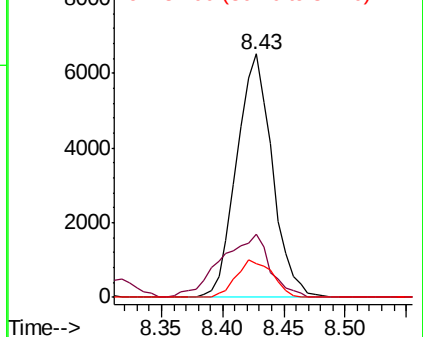
43 100

61 35.4 25.3 37.9

87 15.6 11.8 17.8



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



#44

Trichloroethene

Concen: 23.965 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW007677.D

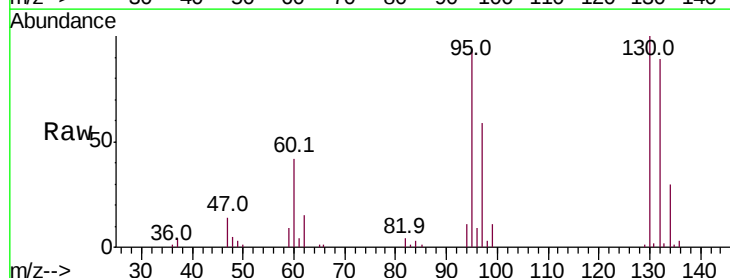
Acq: 19 Dec 2018 01:31

Tgt Ion:130 Resp: 16470

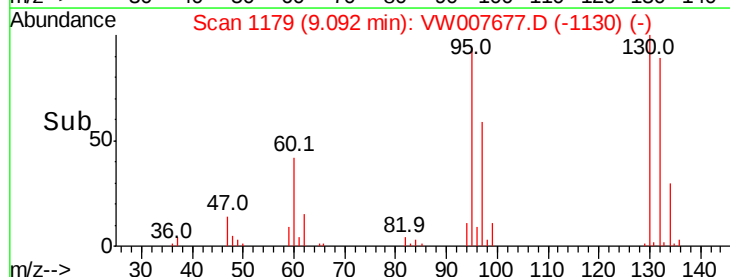
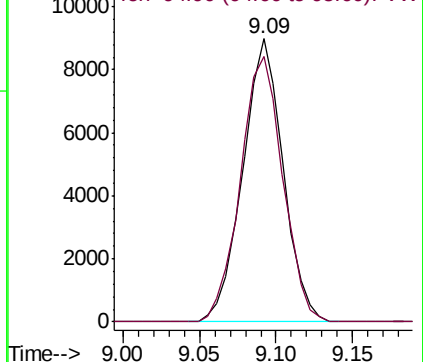
Ion Ratio Lower Upper

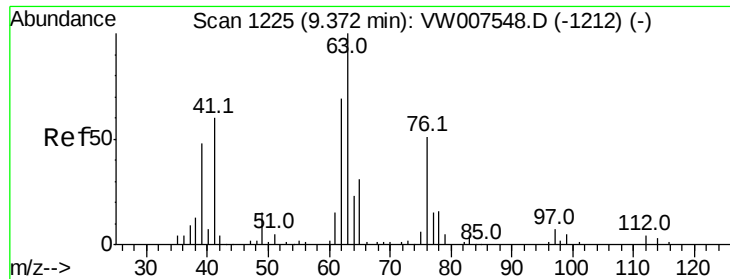
130 100

95 93.8 0.0 193.2



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





#45

1,2-Dichloropropane

Concen: 22.778 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

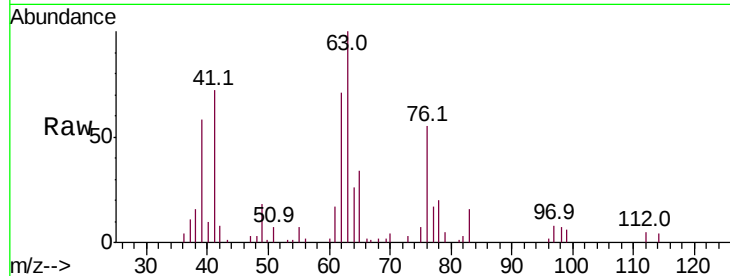
ClientSampleId :

Tot Ion: 63 Resp: 12686

Ion Ratio Lower Upper

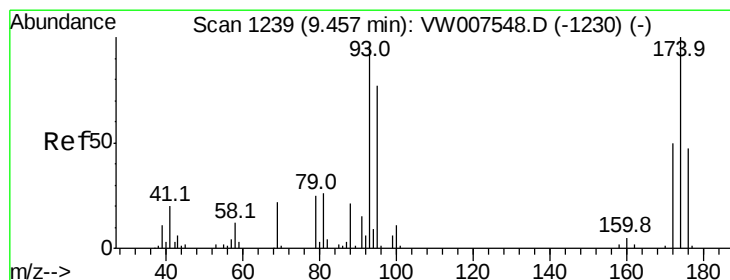
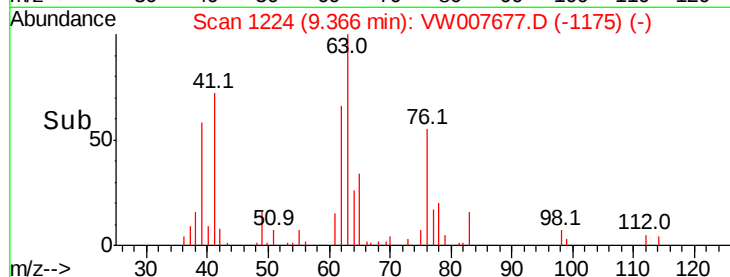
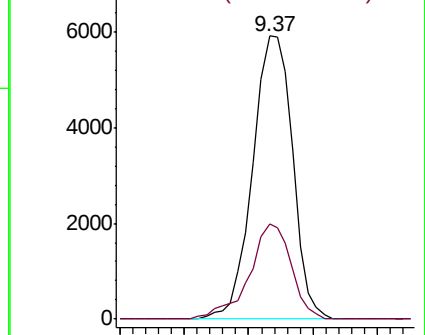
63 100

65 33.7 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 22.920 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

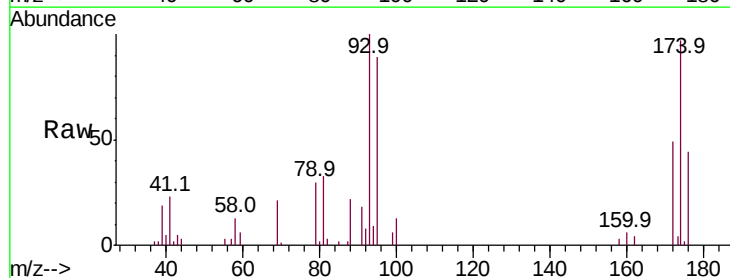
Tgt Ion: 93 Resp: 7249

Ion Ratio Lower Upper

93 100

95 89.5 68.0 102.0

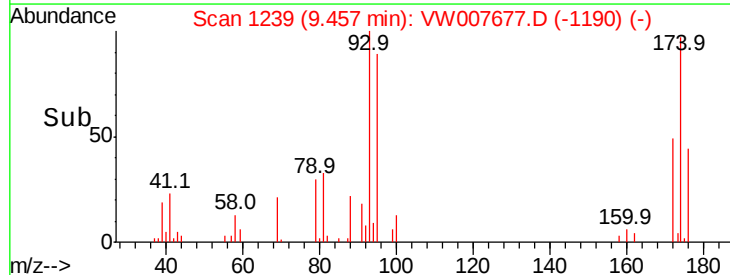
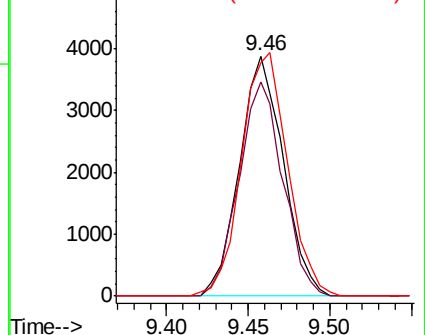
174 106.2 83.2 124.8

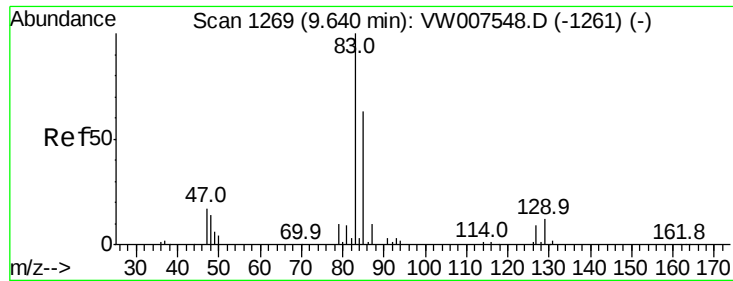


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 23.694 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampleId :

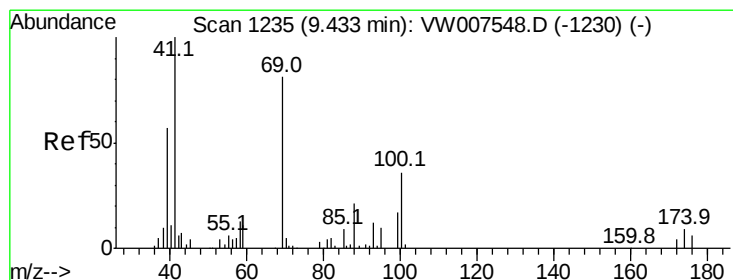
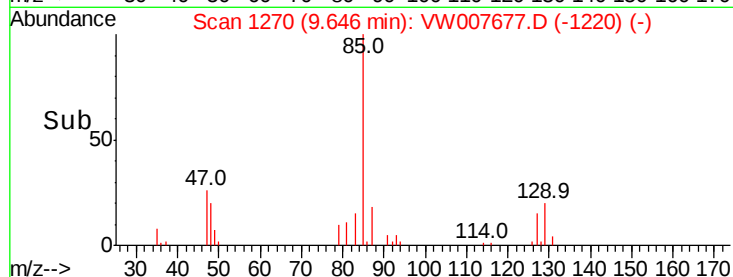
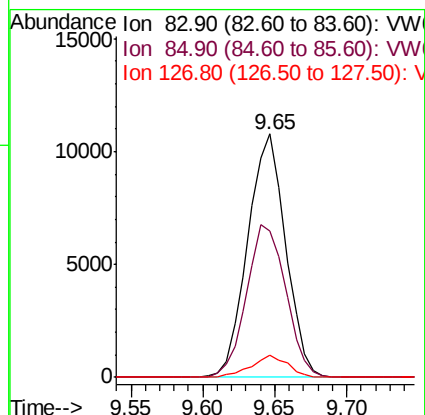
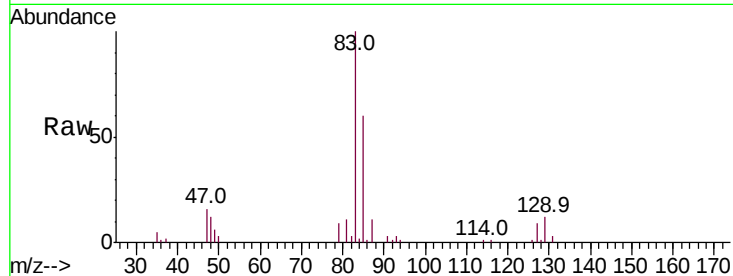
Tot Ion: 83 Resp: 19657

Ion Ratio Lower Upper

83 100

85 60.1 47.6 71.4

127 8.9 6.7 10.1



#48

Methyl methacrylate

Concen: 21.047 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

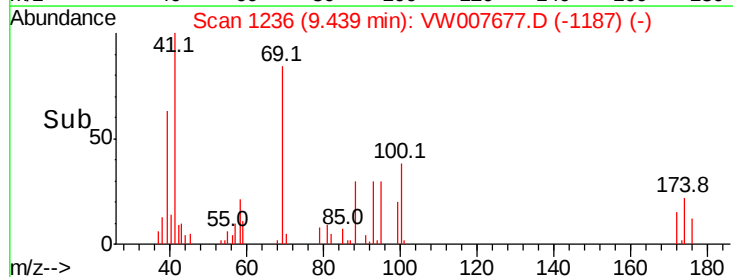
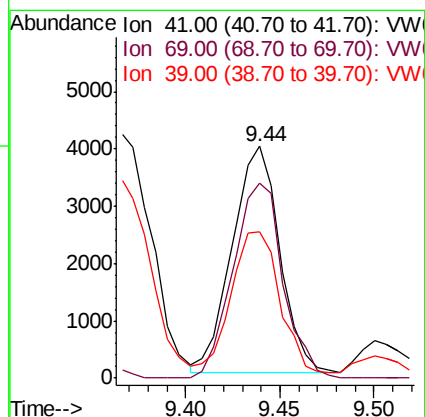
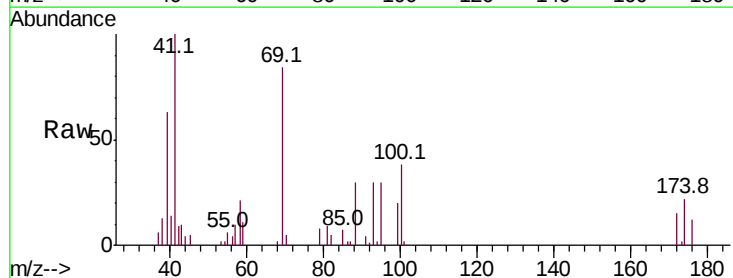
Tgt Ion: 41 Resp: 6887

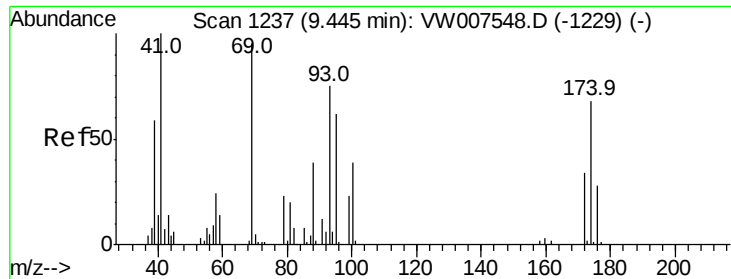
Ion Ratio Lower Upper

41 100

69 91.0 69.8 104.8

39 69.4 50.9 76.3

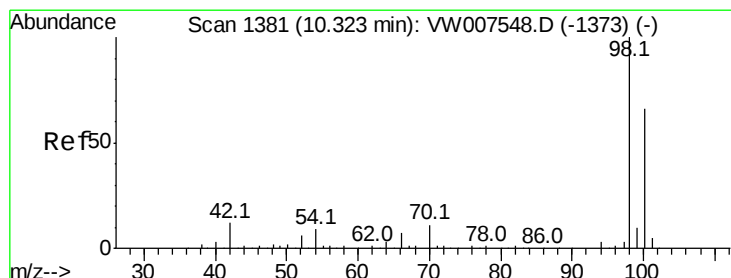
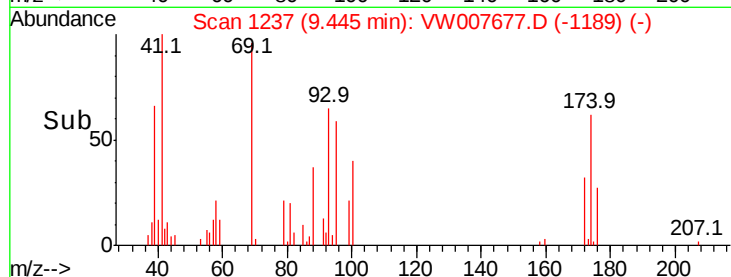
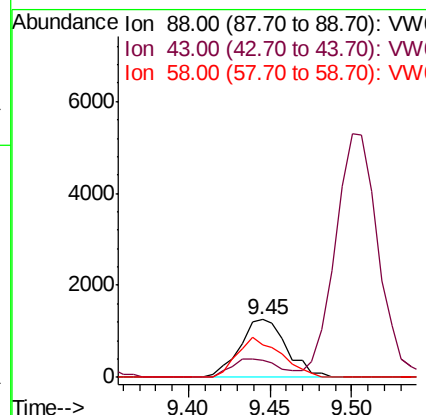
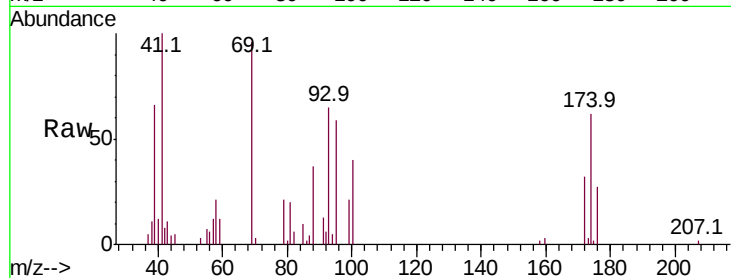




#49  
 1,4-Dioxane  
 Concen: 486.378 ug/l  
 RT: 9.45 min Scan# 1237  
 Delta R.T. -0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

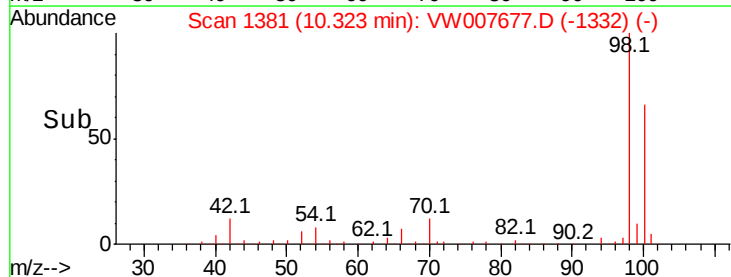
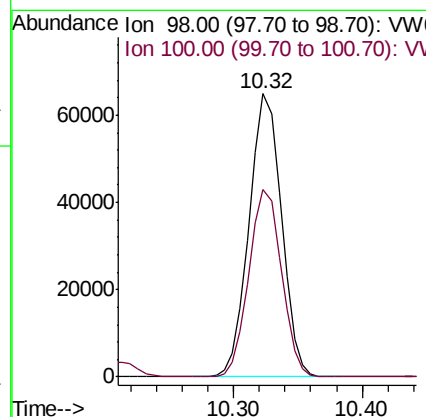
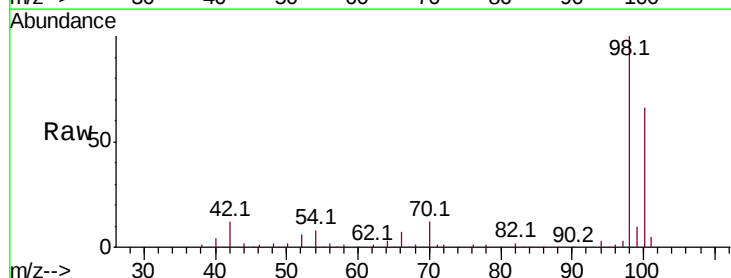
Instrument :  
 MSVOA\_W  
 ClientSampleId :

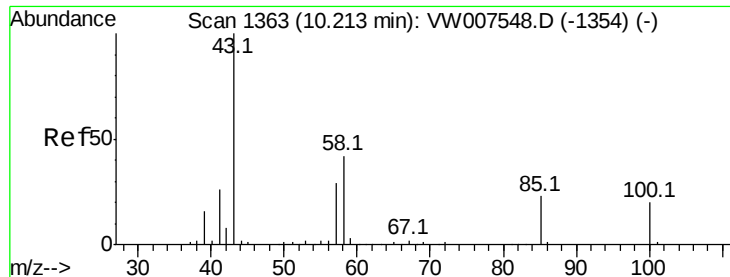
Tot Ion: 88 Resp: 2496  
 Ion Ratio Lower Upper  
 88 100  
 43 32.3 25.0 37.4  
 58 64.5 51.4 77.2



#50  
 Toluene-d8  
 Concen: 52.309 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 98 Resp: 112868  
 Ion Ratio Lower Upper  
 98 100  
 100 66.7 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 103.668 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

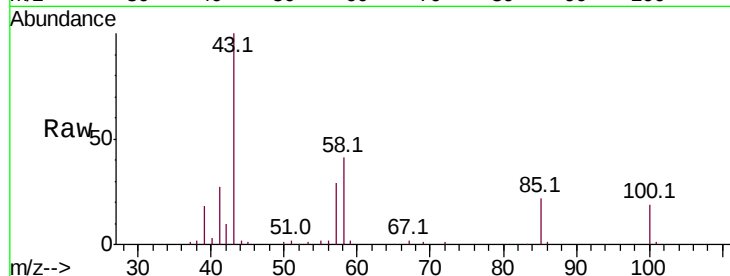
ClientSampled :

Tot Ion: 43 Resp: 31209

Ion Ratio Lower Upper

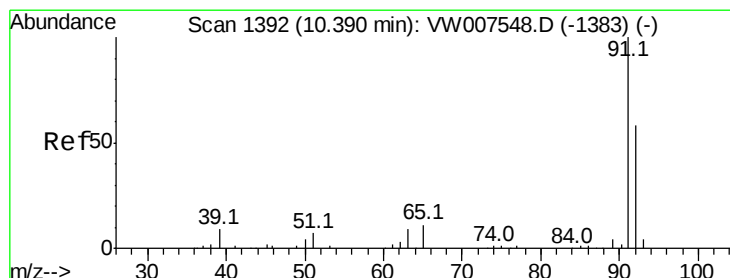
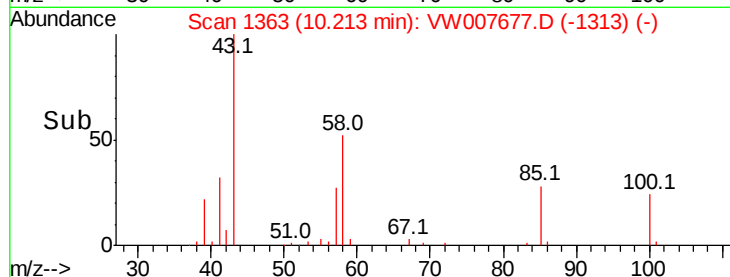
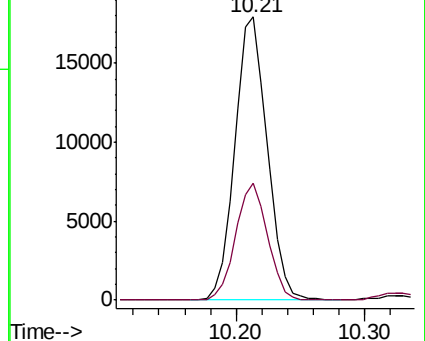
43 100

58 40.7 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 23.808 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007677.D

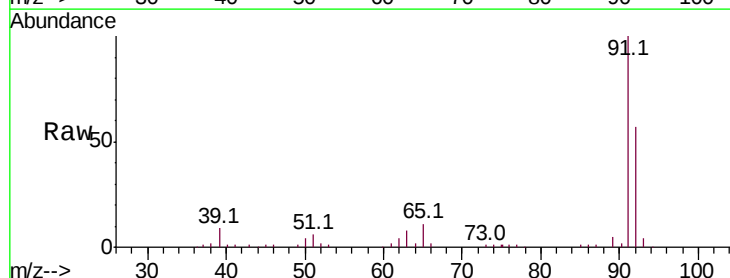
Acq: 19 Dec 2018 01:31

Tgt Ion: 92 Resp: 37080

Ion Ratio Lower Upper

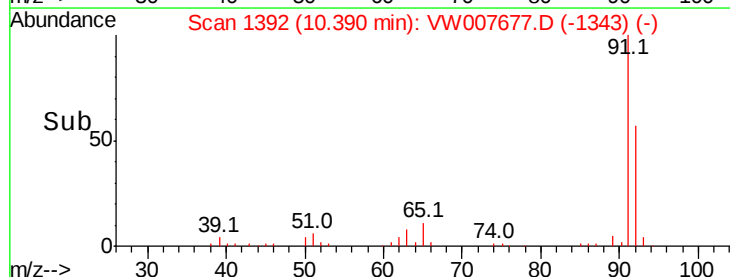
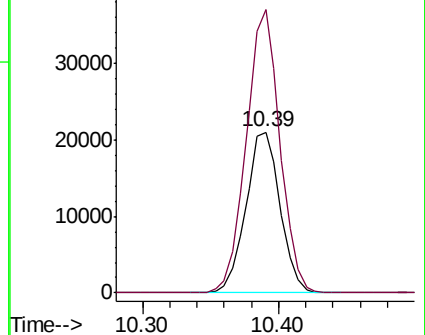
92 100

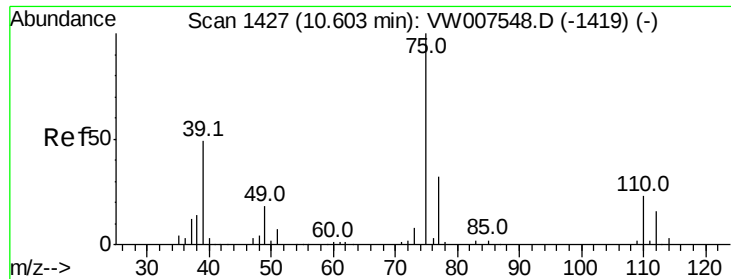
91 172.5 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

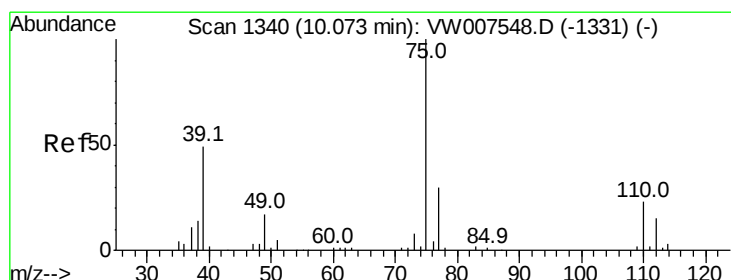
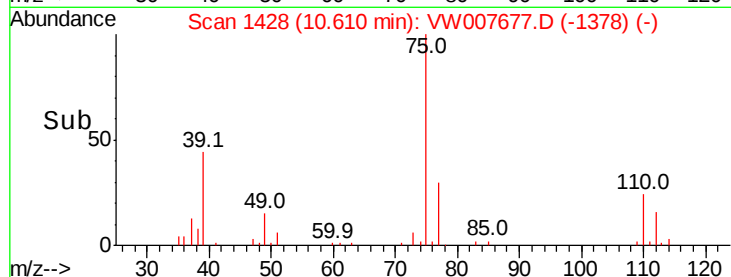
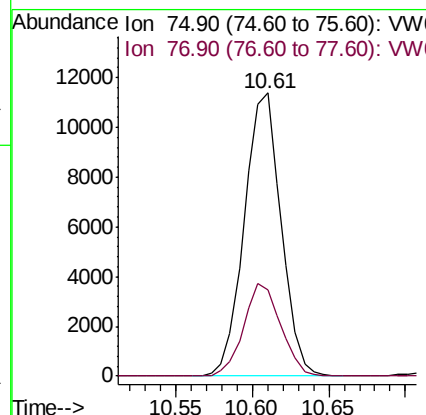
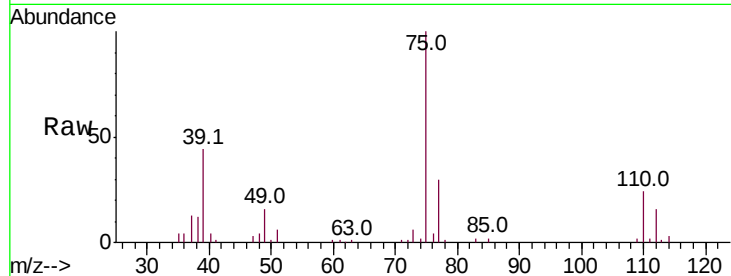




#53  
 t-1,3-Dichloropropene  
 Concen: 23.609 ug/l  
 RT: 10.61 min Scan# 1428  
 Delta R.T. 0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

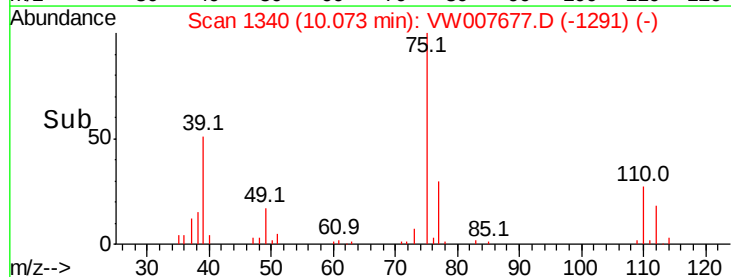
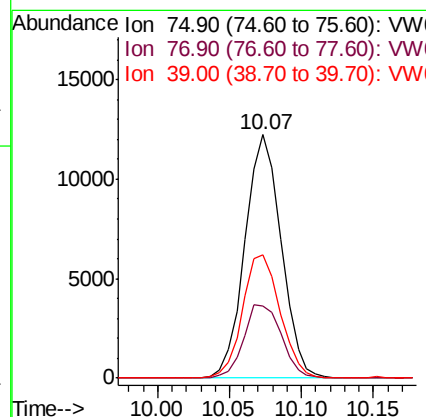
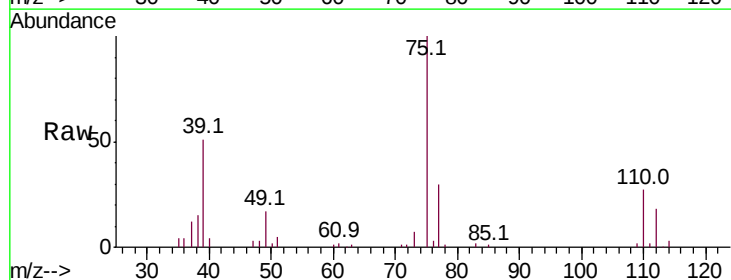
Instrument :  
 MSVOA\_W  
 ClientSampleId :

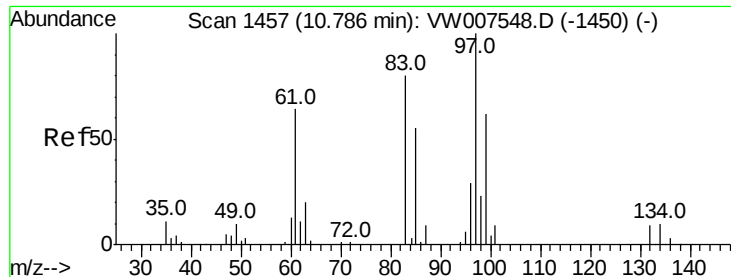
Tot Ion: 75 Resp: 19015  
 Ion Ratio Lower Upper  
 75 100  
 77 30.4 26.2 39.4



#54  
 cis-1,3-Dichloropropene  
 Concen: 22.917 ug/l  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 75 Resp: 21337  
 Ion Ratio Lower Upper  
 75 100  
 77 29.9 24.8 37.2  
 39 50.9 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 24.604 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 97 Resp: 10591

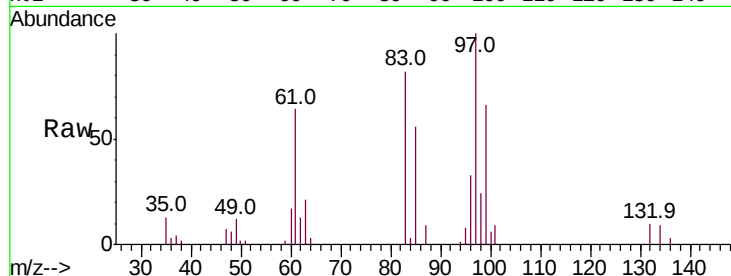
Ion Ratio Lower Upper

97 100

83 81.6 62.1 93.1

85 55.7 44.2 66.4

99 66.4 50.2 75.4



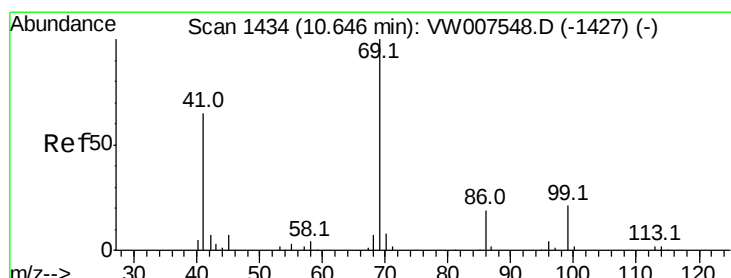
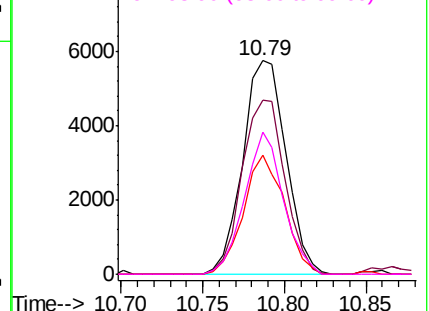
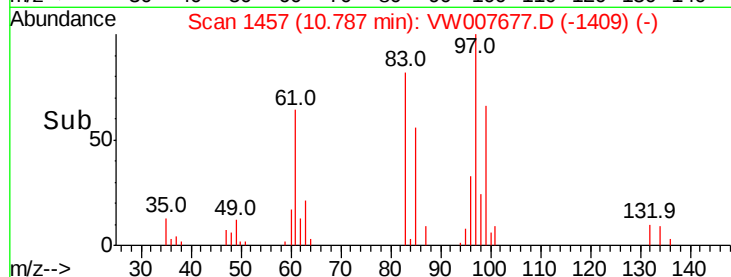
Abundance

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: 22.583 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

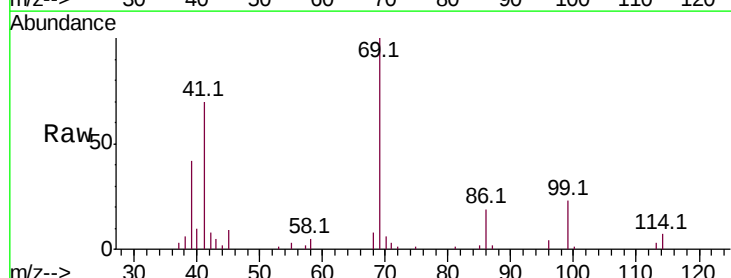
Tgt Ion: 69 Resp: 11684

Ion Ratio Lower Upper

69 100

41 63.6 51.0 76.6

39 40.0 30.8 46.2

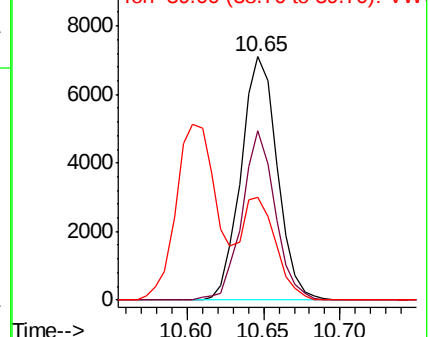
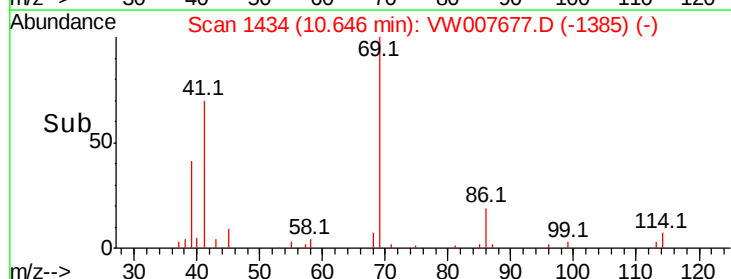


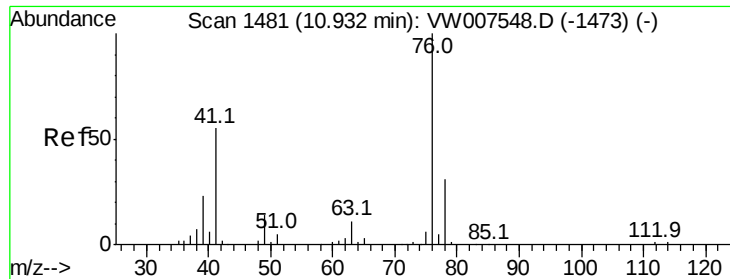
Abundance

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: 24.821 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

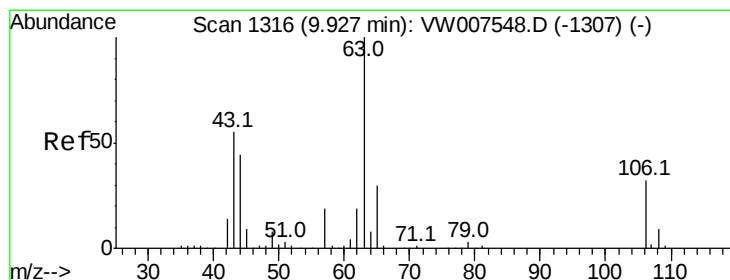
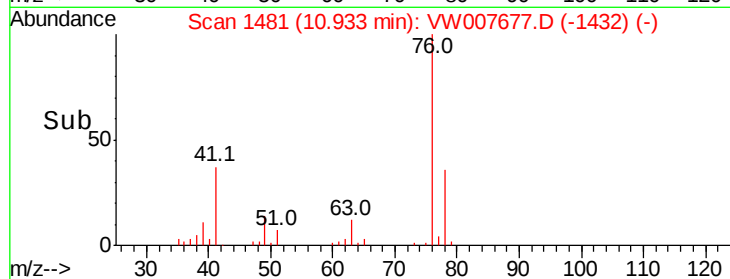
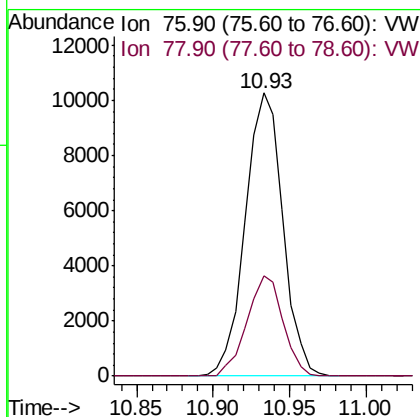
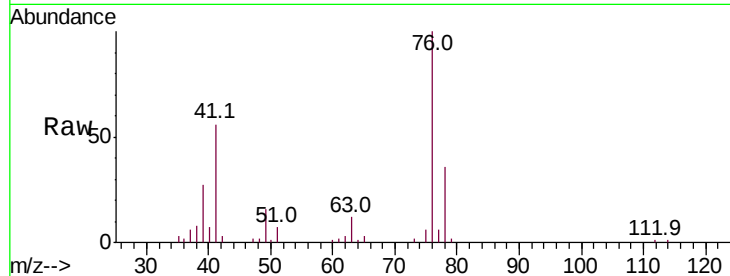
Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 76 Resp: 17537

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 34.0  | 26.2  | 39.4  |



#58

2-Chloroethyl Vinyl ether

Concen: 113.231 ug/l

RT: 9.93 min Scan# 1316

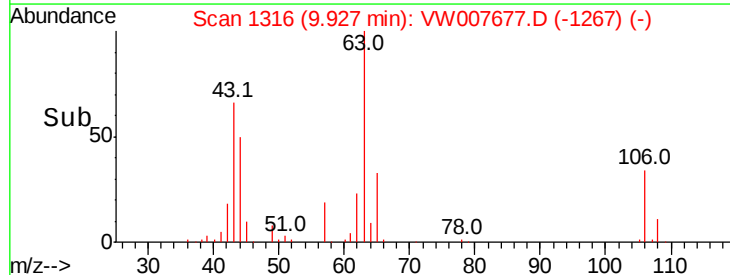
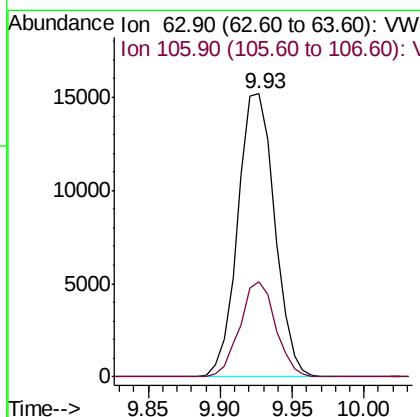
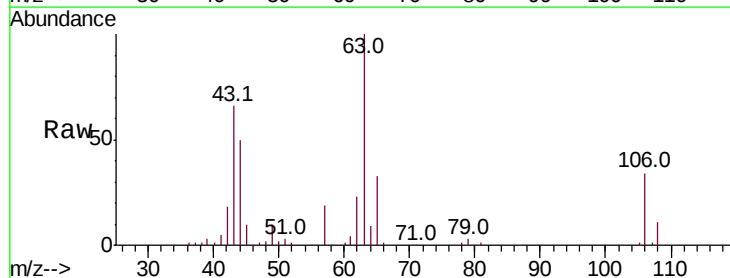
Delta R.T. 0.00 min

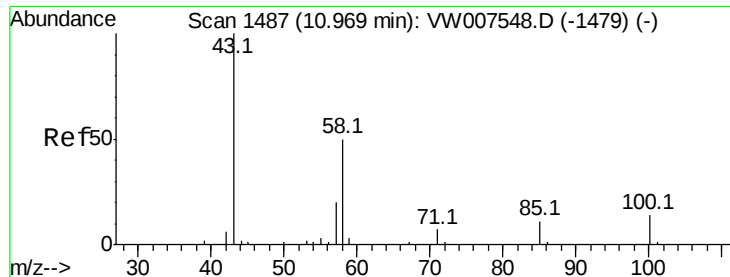
Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Tgt Ion: 63 Resp: 27016

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 106 | 32.5  | 25.0  | 37.6  |





#59

2-Hexanone

Concen: 105.854 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

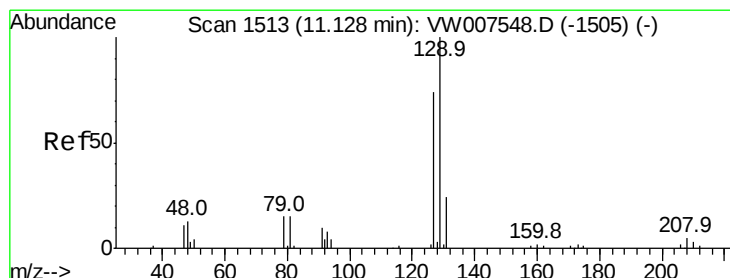
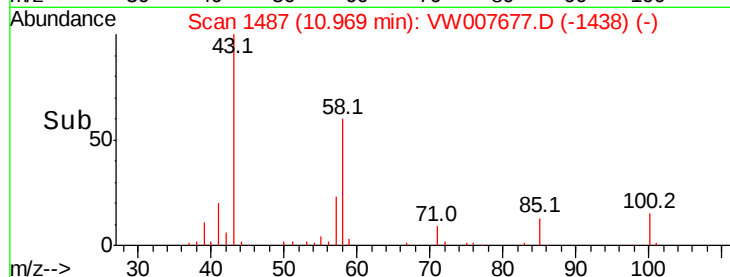
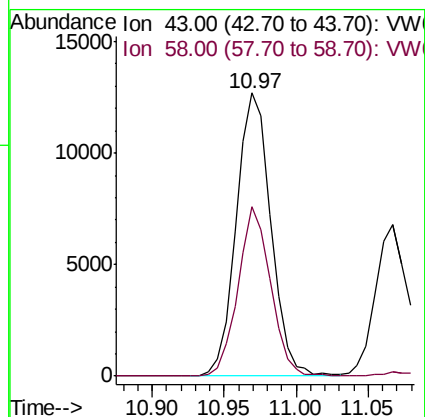
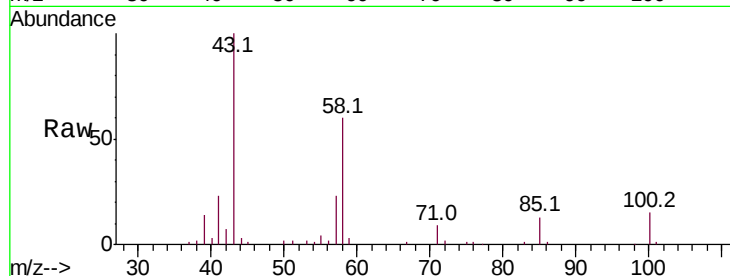
ClientSampleId :

Tot Ion: 43 Resp: 21249

Ion Ratio Lower Upper

43 100

58 55.9 27.1 81.3



#60

Dibromochloromethane

Concen: 24.895 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW007677.D

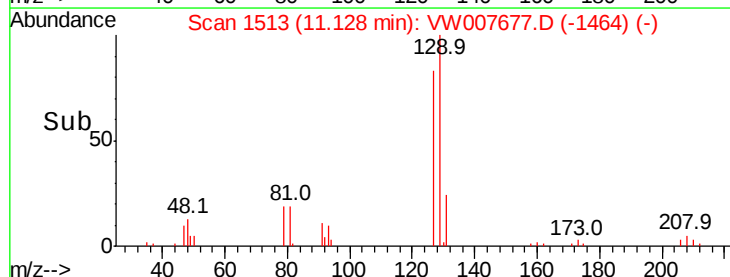
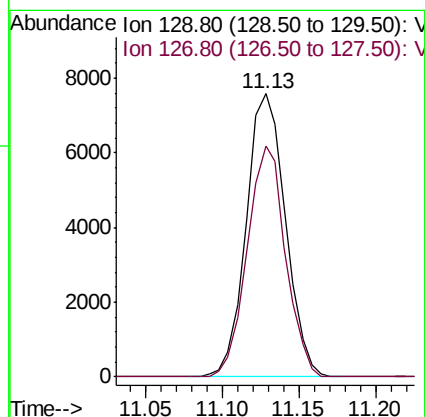
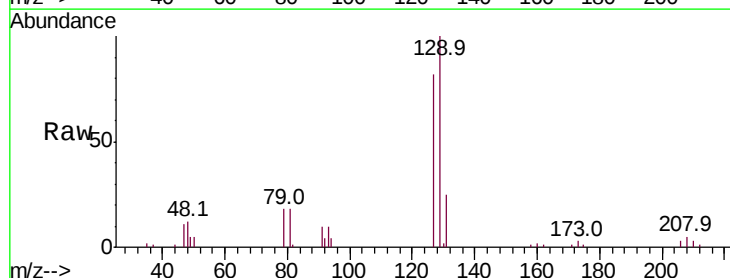
Acq: 19 Dec 2018 01:31

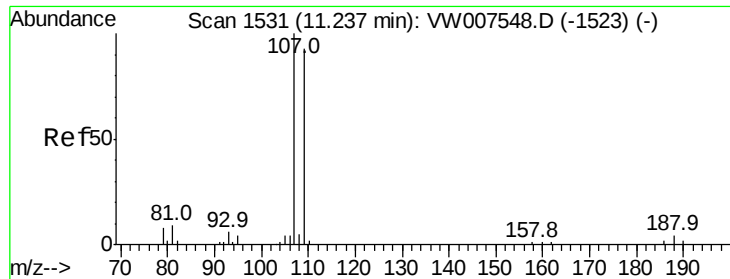
Tgt Ion:129 Resp: 13524

Ion Ratio Lower Upper

129 100

127 79.3 38.1 114.3





#61

1,2-Dibromoethane

Concen: 24.133 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

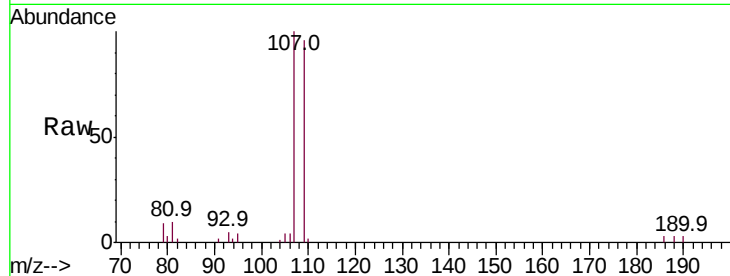
ClientSampleId :

Tot Ion:107 Resp: 10266

Ion Ratio Lower Upper

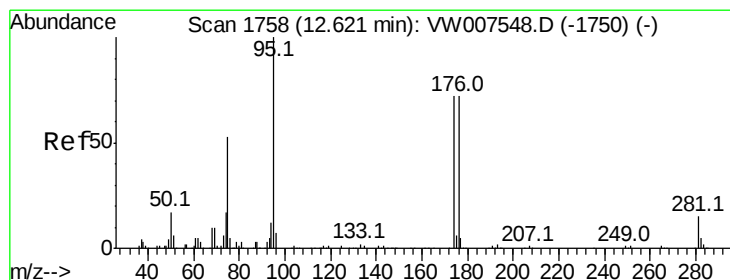
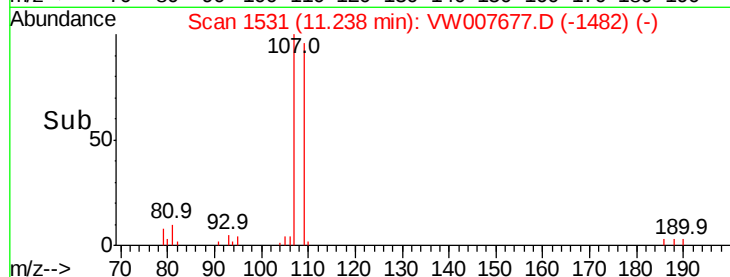
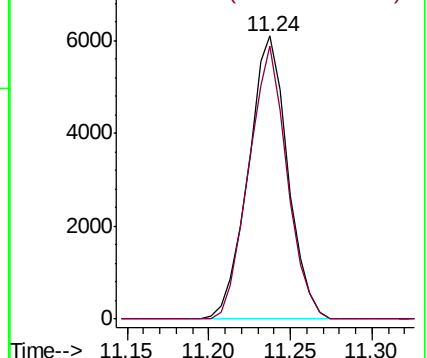
107 100

109 93.6 79.1 118.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 56.342 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

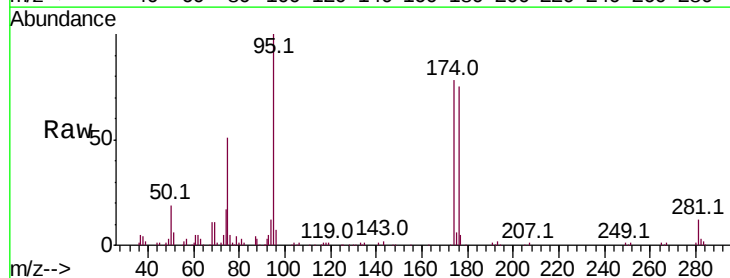
Tgt Ion: 95 Resp: 44698

Ion Ratio Lower Upper

95 100

174 76.3 0.0 147.2

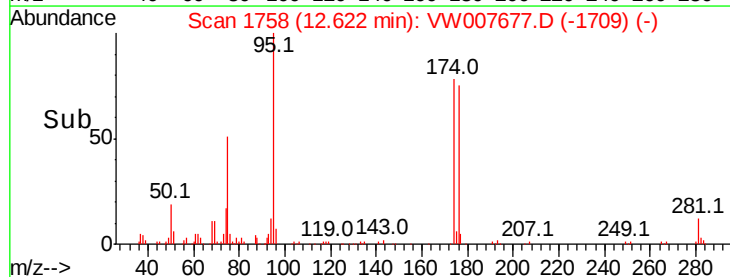
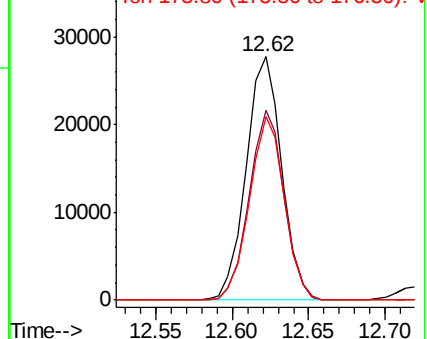
176 73.6 0.0 138.8

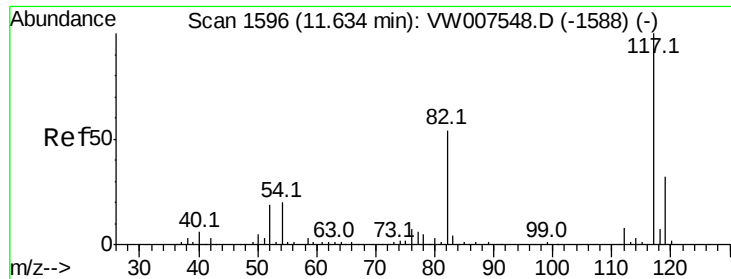


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

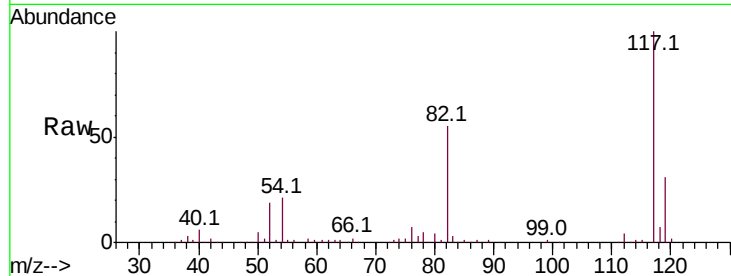




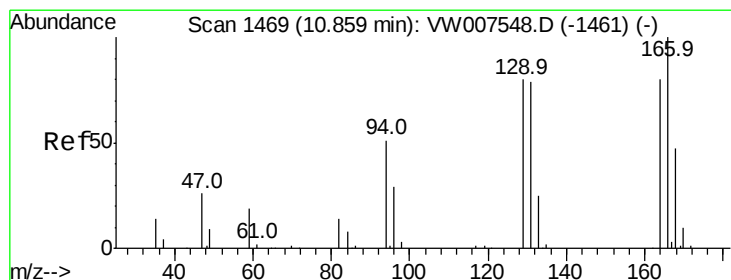
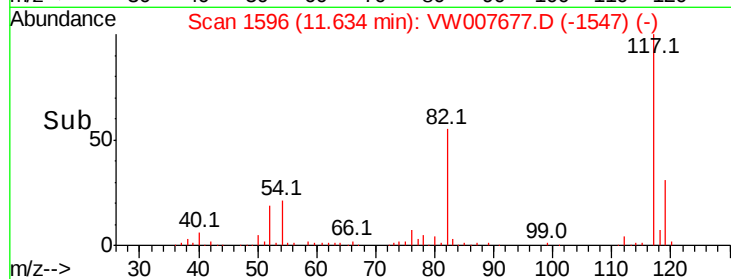
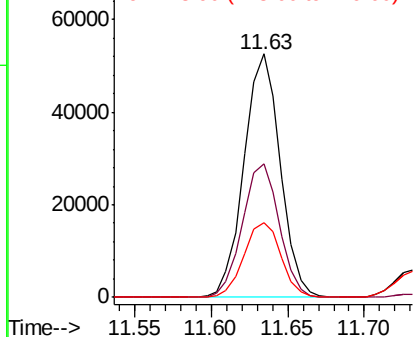
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 86705  
Ion Ratio Lower Upper  
117 100  
82 54.7 42.3 63.5  
119 30.6 23.0 34.6

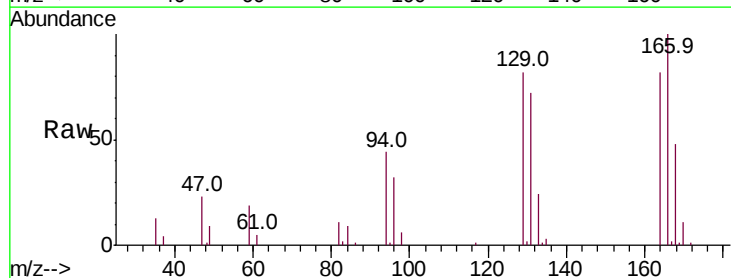


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VV  
Ion 118.90 (118.60 to 119.60): V

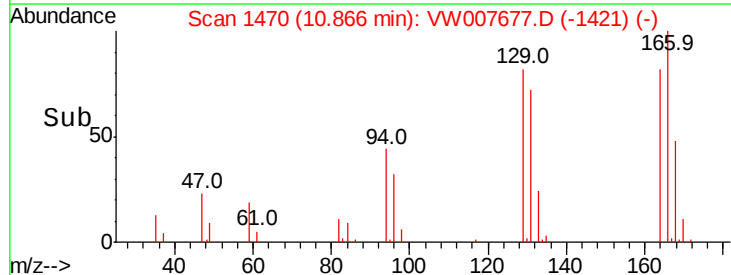
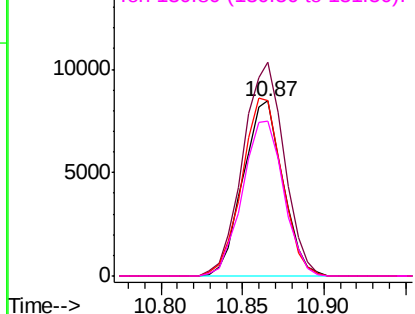


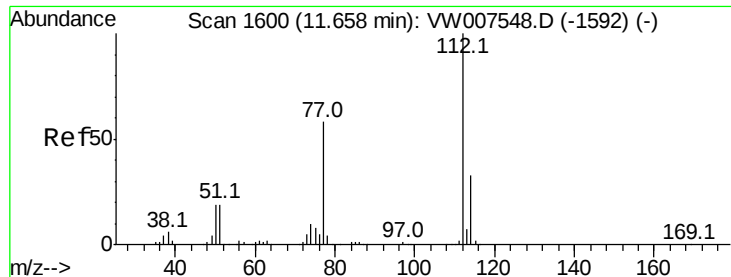
#64  
Tetrachloroethene  
Concen: 23.016 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion:164 Resp: 14351  
Ion Ratio Lower Upper  
164 100  
166 122.1 107.9 161.9  
129 100.4 73.4 110.2  
131 88.4 75.8 113.6



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

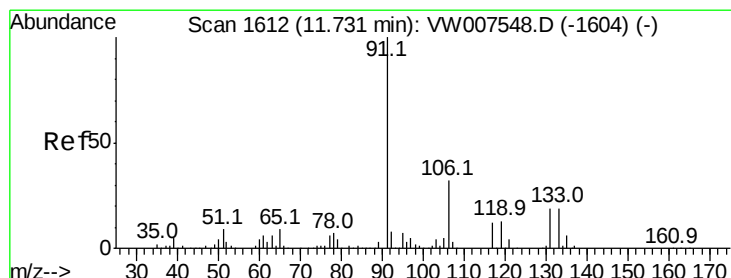
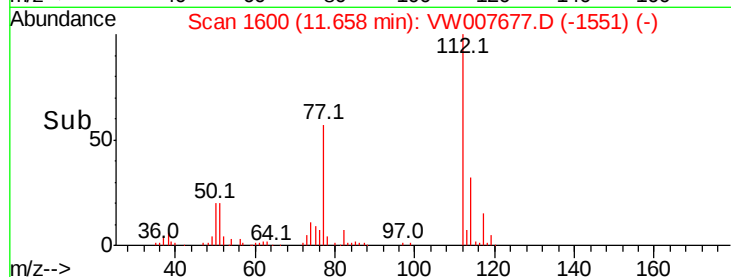
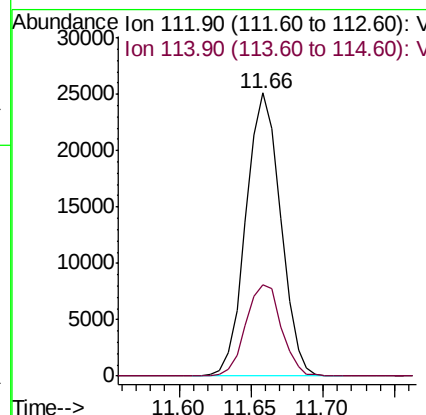
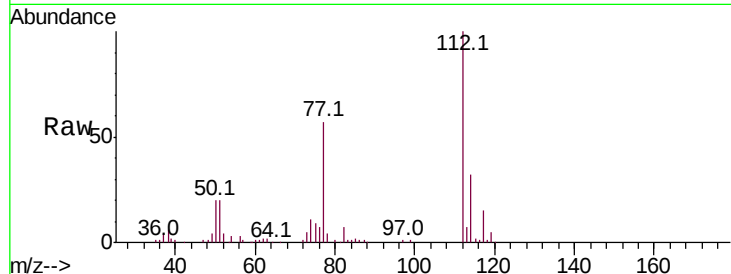




#65  
Chlorobenzene  
Concen: 23.185 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

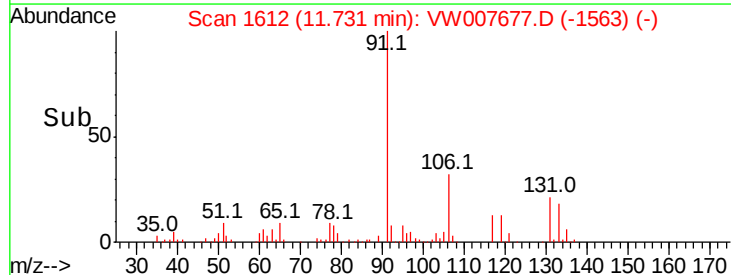
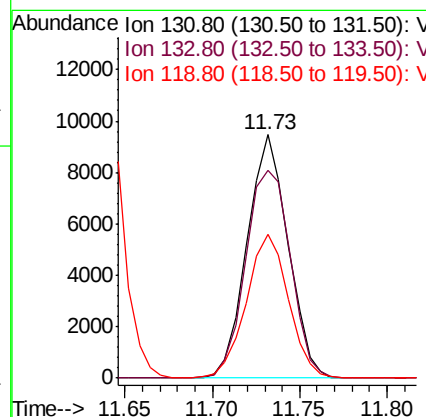
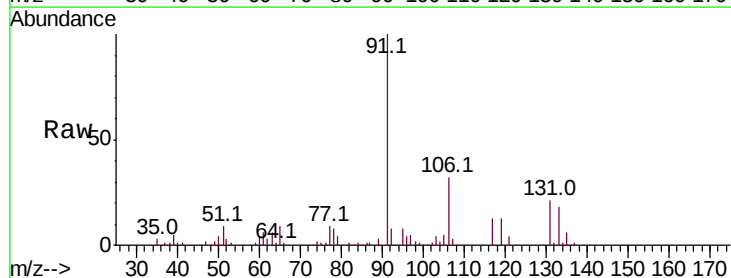
Instrument :  
MSVOA\_W  
ClientSampleId :

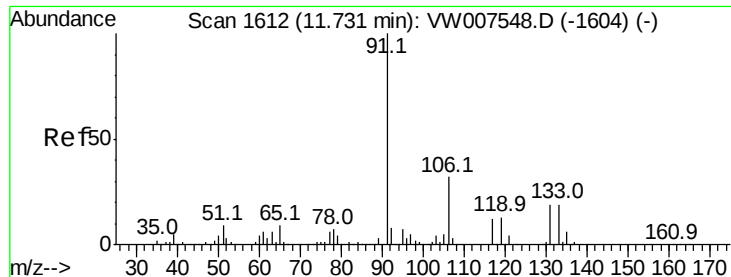
Tot Ion:112 Resp: 41901  
Ion Ratio Lower Upper  
112 100  
114 32.3 27.8 41.8



#66  
1,1,1,2-Tetrachloroethane  
Concen: 24.206 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion:131 Resp: 15407  
Ion Ratio Lower Upper  
131 100  
133 93.7 47.1 141.4  
119 61.1 31.3 93.9

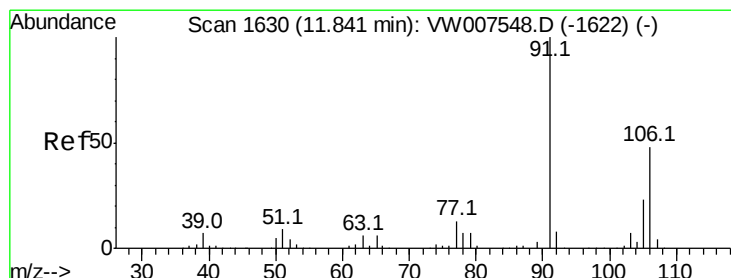
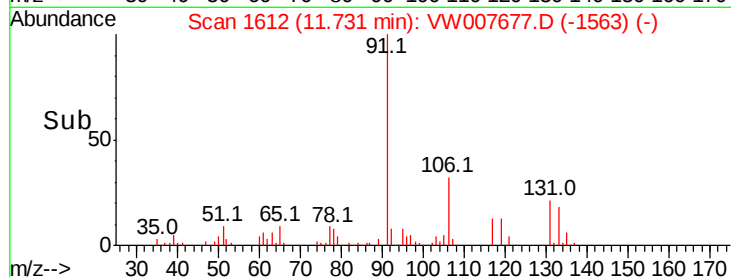
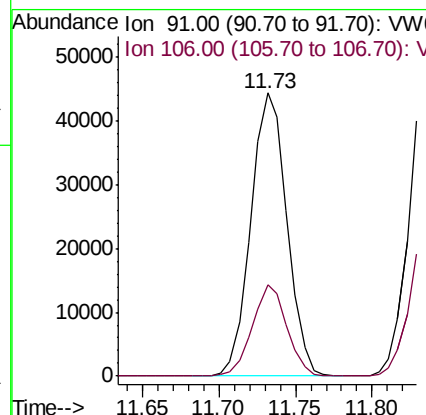
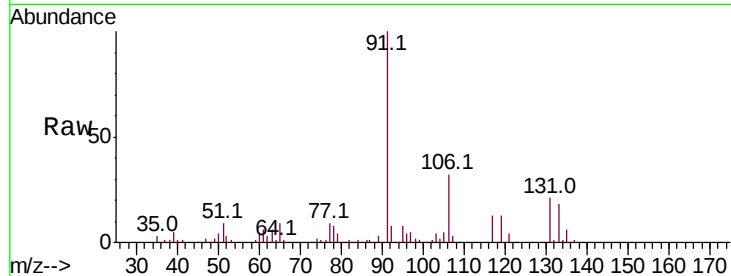




#67  
Ethyl Benzene  
Concen: 23.342 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

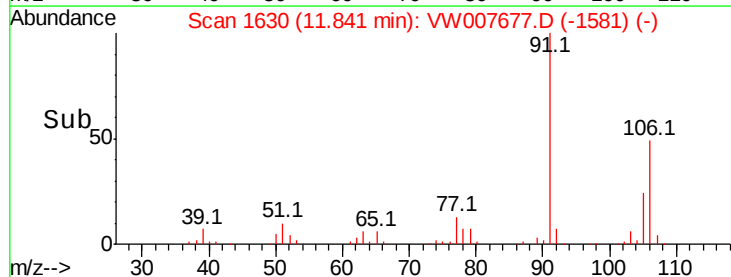
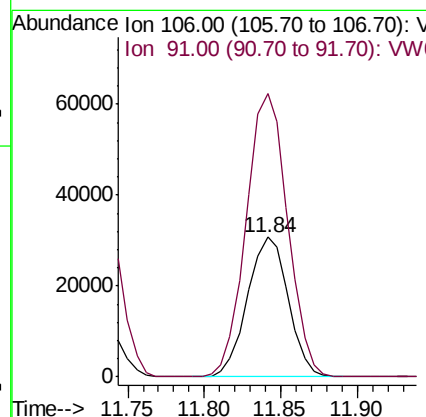
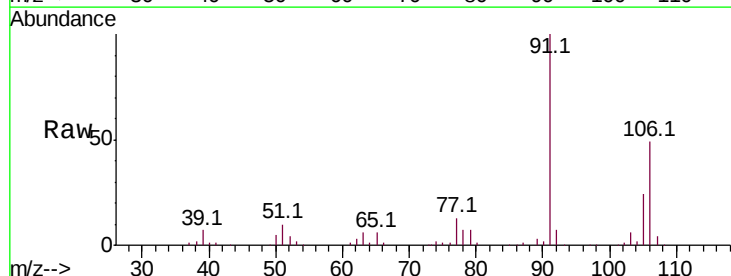
Instrument :  
MSVOA\_W  
ClientSampled :

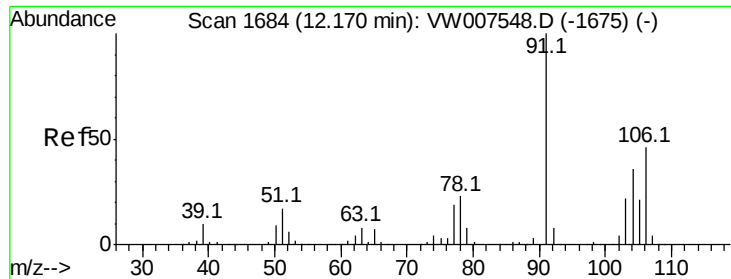
Tot Ion: 91 Resp: 72525  
Ion Ratio Lower Upper  
91 100  
106 32.3 21.8 32.8



#68  
m/p-Xylenes  
Concen: 47.298 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion:106 Resp: 57131  
Ion Ratio Lower Upper  
106 100  
91 205.5 165.3 247.9

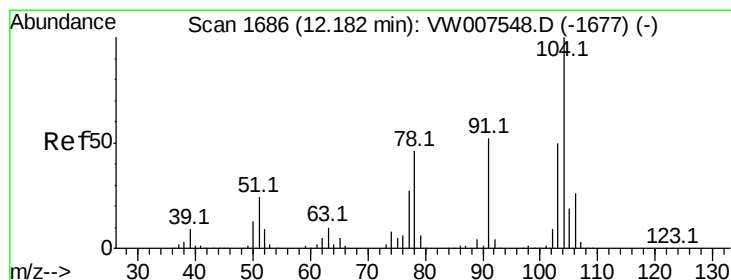
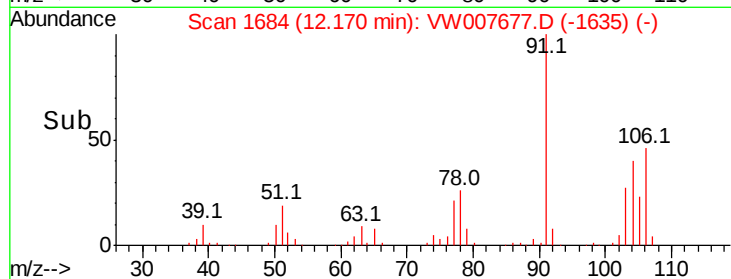
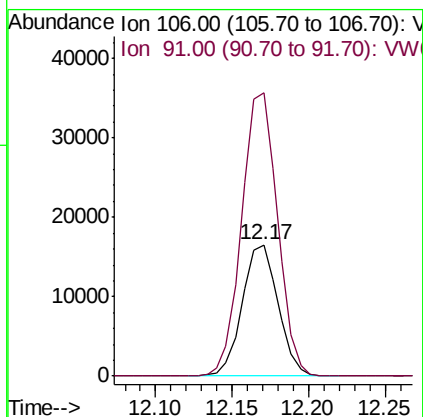
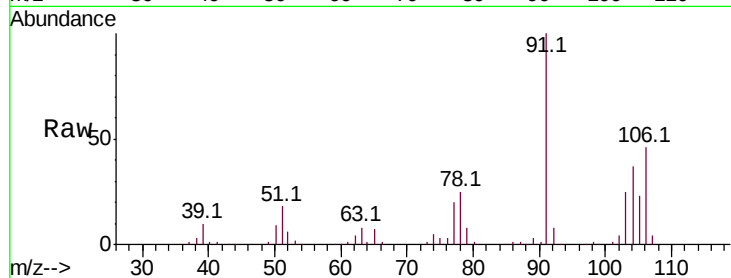




#69  
o-Xylene  
Concen: 23.895 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

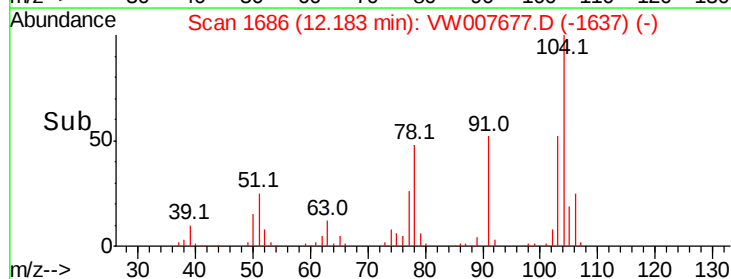
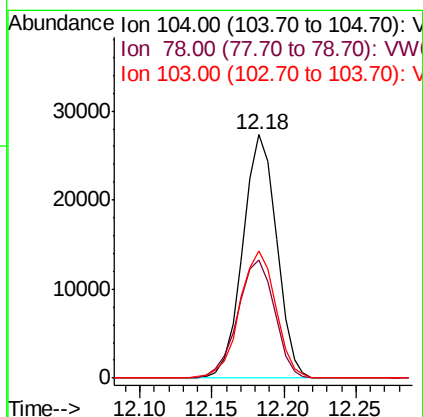
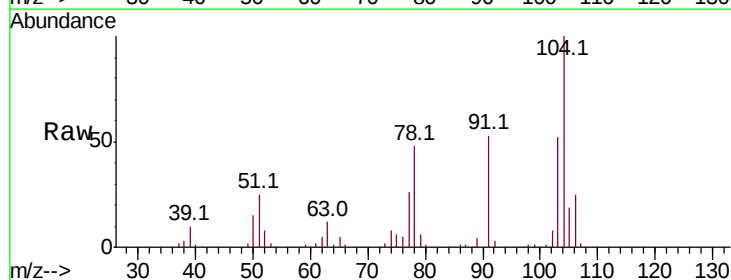
Instrument :  
MSVOA\_W  
ClientSampled :

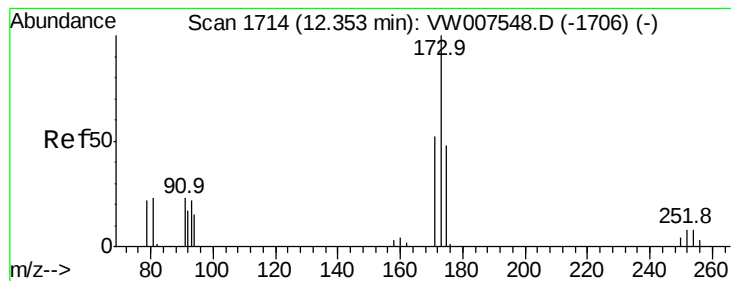
Tot Ion:106 Resp: 26956  
Ion Ratio Lower Upper  
106 100  
91 215.5 106.6 319.8



#70  
Styrene  
Concen: 24.343 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion:104 Resp: 44356  
Ion Ratio Lower Upper  
104 100  
78 53.3 41.8 62.8  
103 56.0 46.6 69.8





#71

Bromoform

Concen: 22.742 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

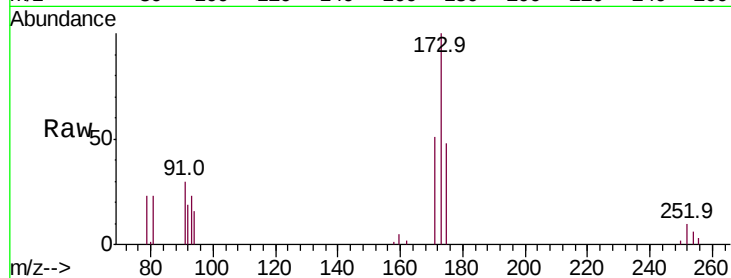
Tot Ion:173 Resp: 7409

Ion Ratio Lower Upper

173 100

175 47.6 23.6 70.8

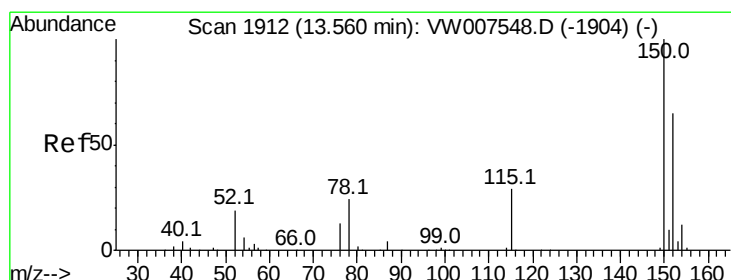
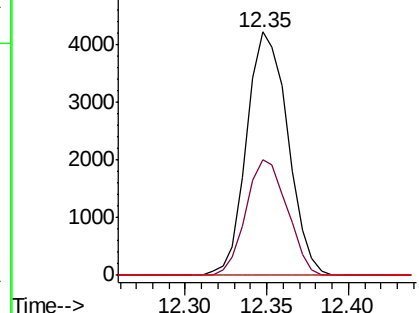
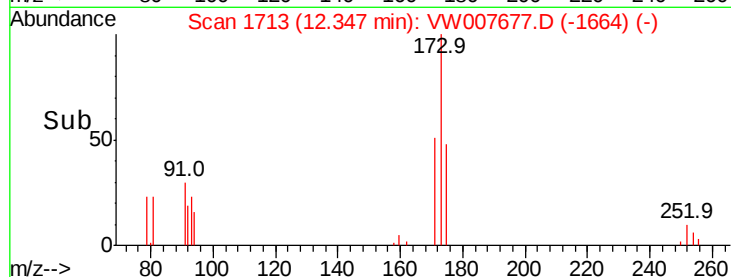
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

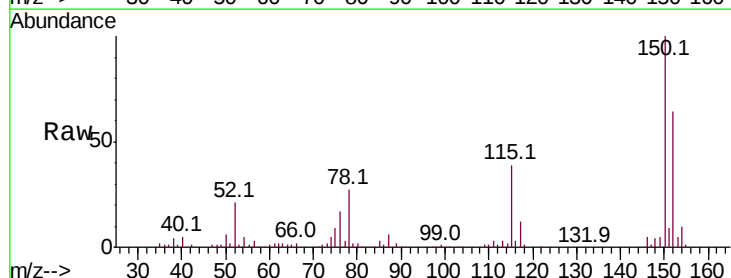
Tgt Ion:152 Resp: 44610

Ion Ratio Lower Upper

152 100

115 61.9 31.4 94.2

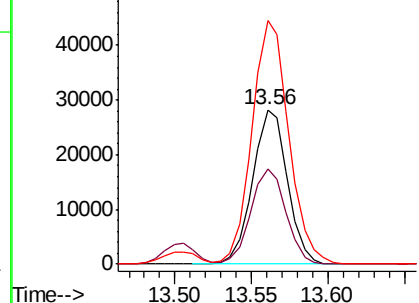
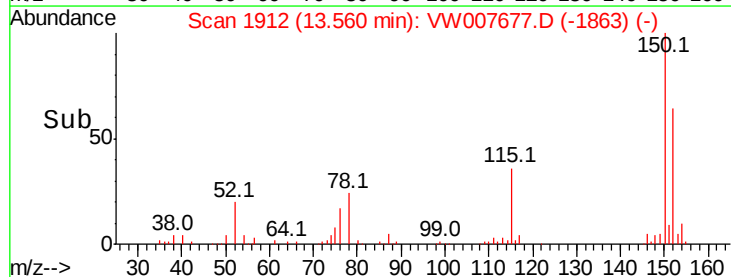
150 166.8 0.0 358.4

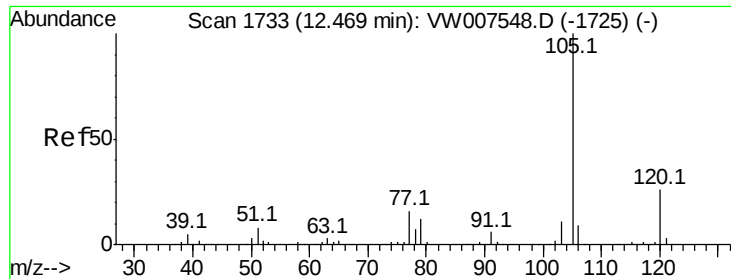


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.913 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

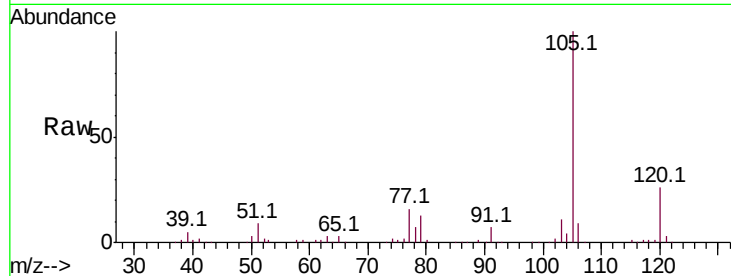
ClientSampled :

Tot Ion:105 Resp: 74902

Ion Ratio Lower Upper

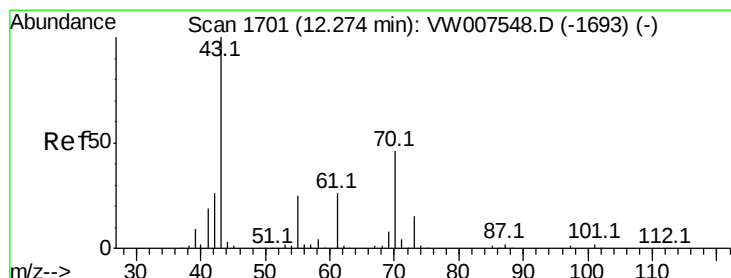
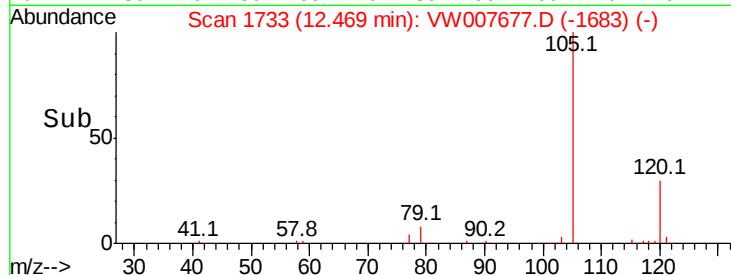
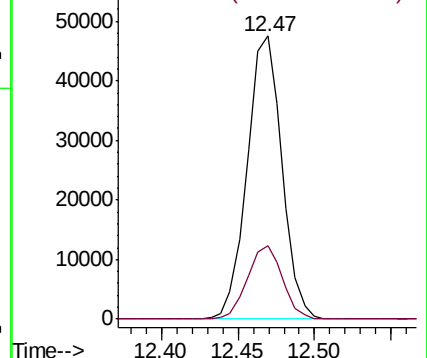
105 100

120 26.2 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.223 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Tgt Ion: 43 Resp: 12563

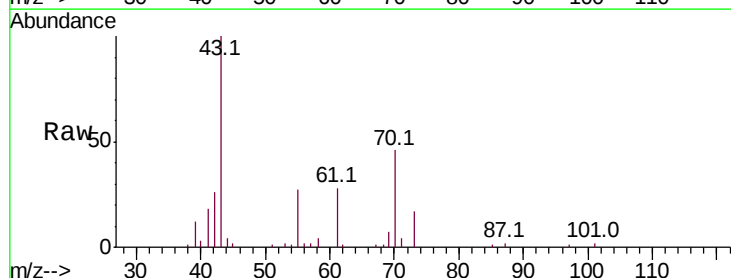
Ion Ratio Lower Upper

43 100

70 44.7 36.5 54.7

55 27.7 20.1 30.1

61 24.1 19.3 28.9

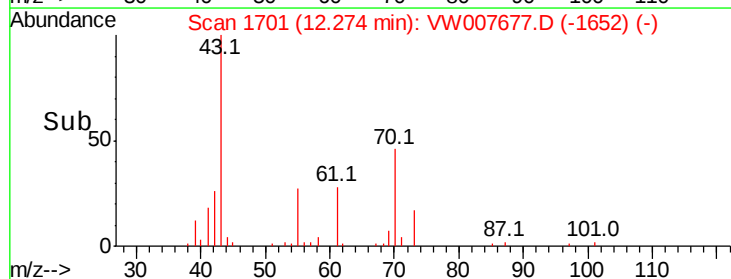
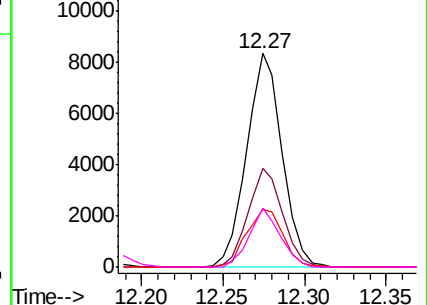


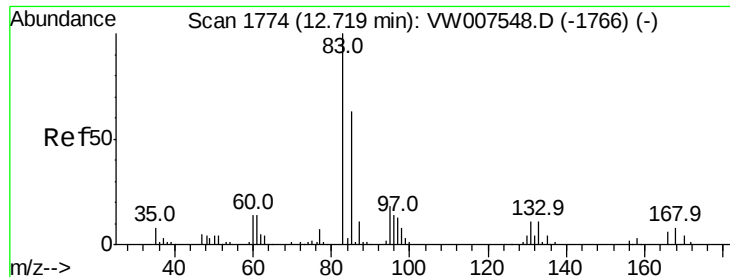
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 21.477 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

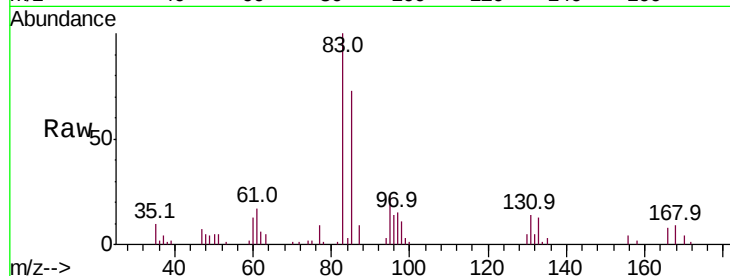
Tot Ion: 83 Resp: 10873

Ion Ratio Lower Upper

83 100

131 12.4 5.9 17.8

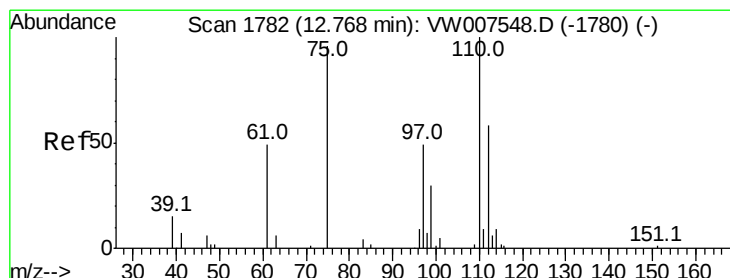
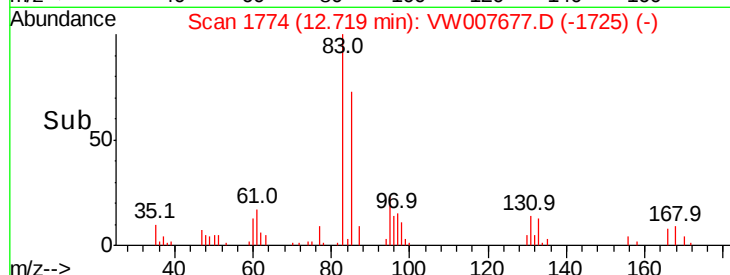
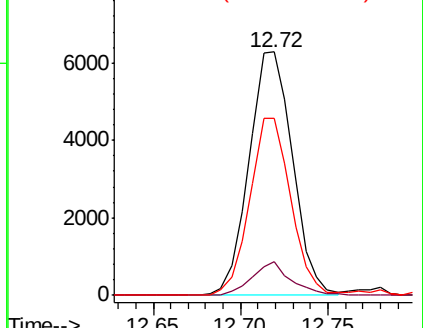
85 68.6 30.0 90.0



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: 43.159 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW007677.D

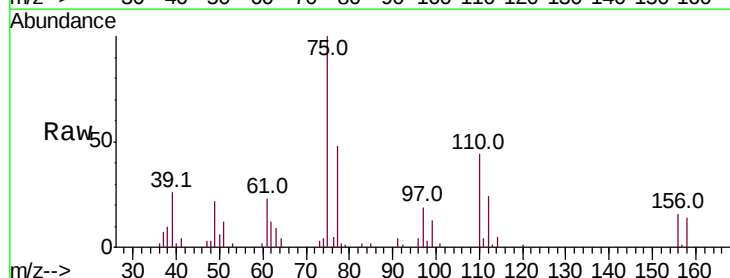
Acq: 19 Dec 2018 01:31

Tgt Ion: 75 Resp: 15875

Ion Ratio Lower Upper

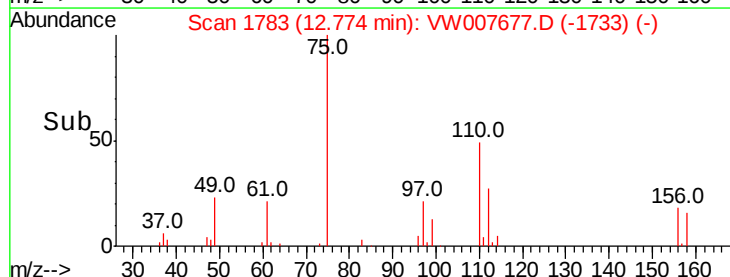
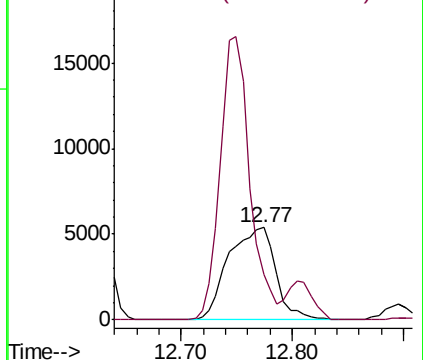
75 100

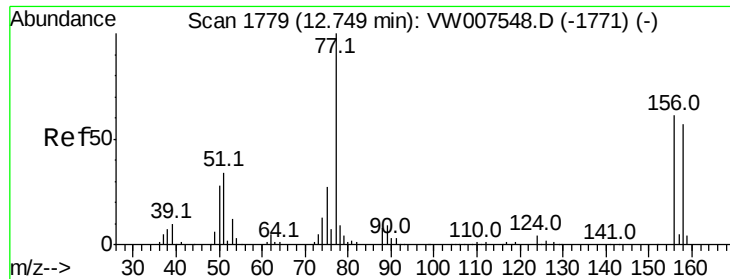
77 0.0 166.9 500.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 22.858 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

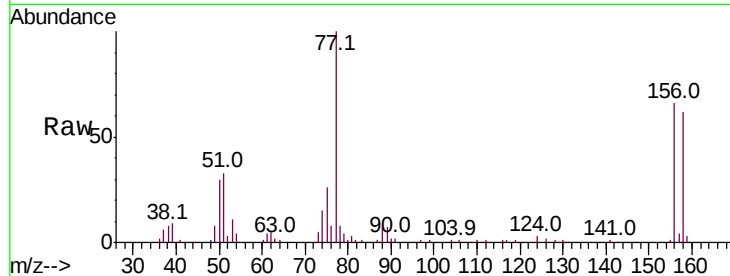
Tot Ion:156 Resp: 17319

Ion Ratio Lower Upper

156 100

77 176.2 88.1 264.4

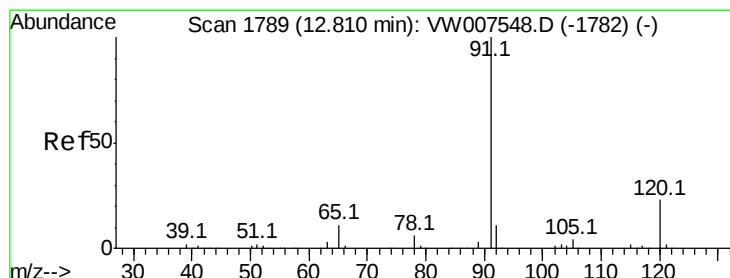
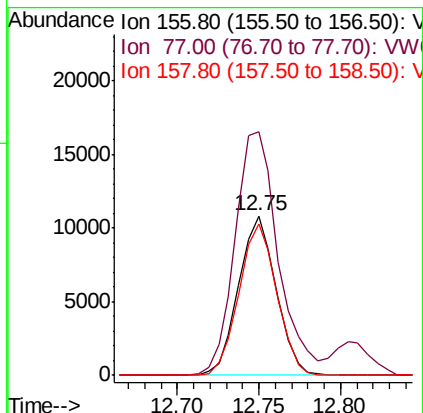
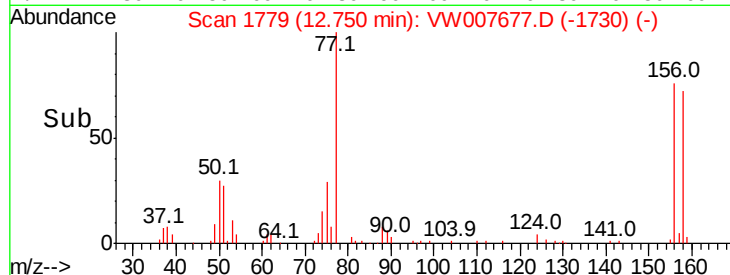
158 95.5 45.6 136.7



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: 22.616 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW007677.D

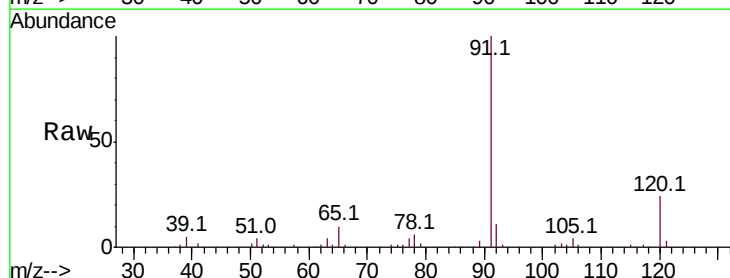
Acq: 19 Dec 2018 01:31

Tgt Ion: 91 Resp: 87000

Ion Ratio Lower Upper

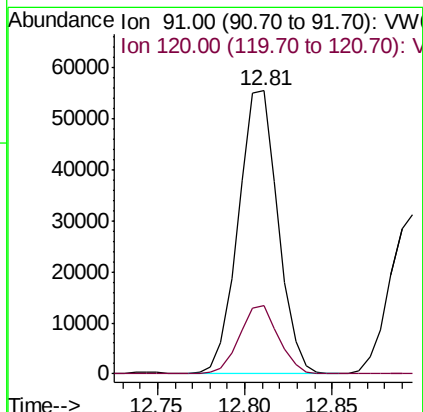
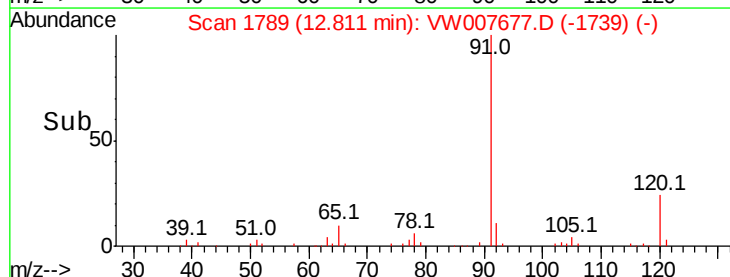
91 100

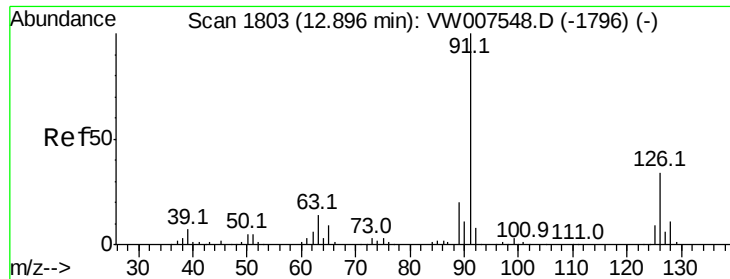
120 23.8 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

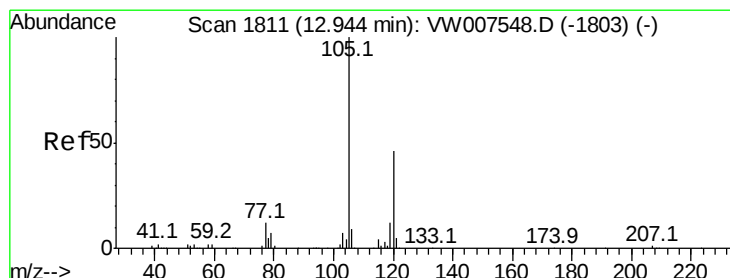
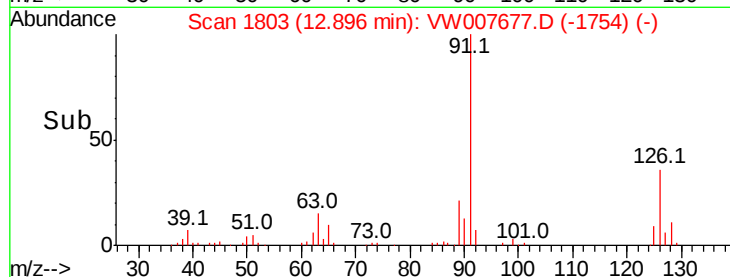
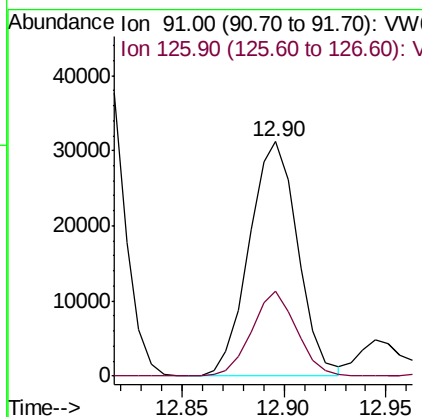
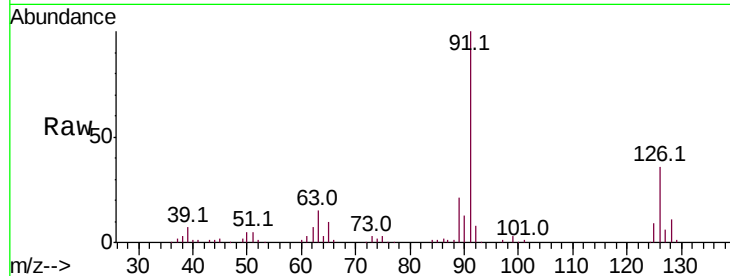




#79  
 2-Chlorotoluene  
 Concen: 22.192 ug/l  
 RT: 12.90 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

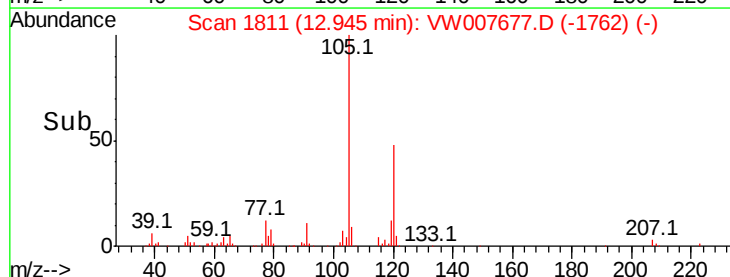
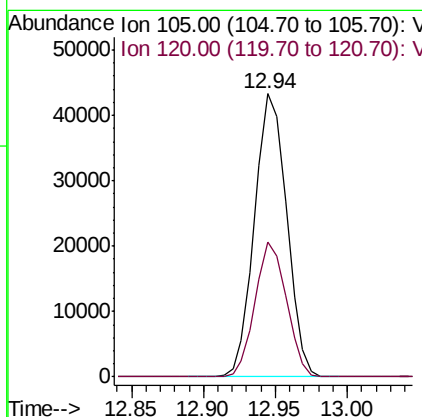
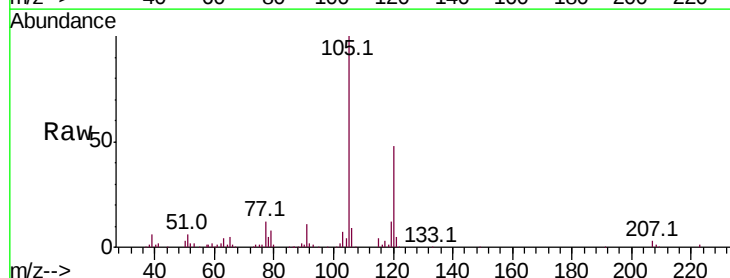
Instrument :  
 MSVOA\_W  
 ClientSampled :

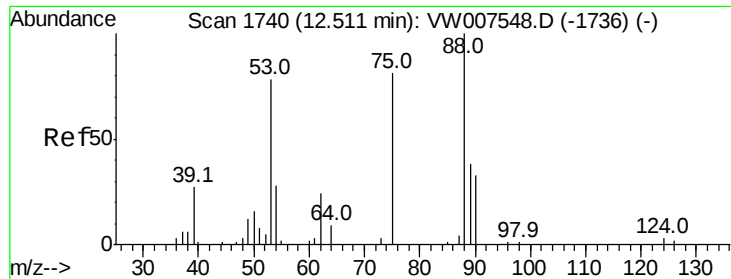
Tot Ion: 91 Resp: 51655  
 Ion Ratio Lower Upper  
 91 100  
 126 33.5 15.9 47.6



#80  
 1,3,5-Trimethylbenzene  
 Concen: 23.277 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion:105 Resp: 66855  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 21.260 ug/l

RT: 12.52 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampled :

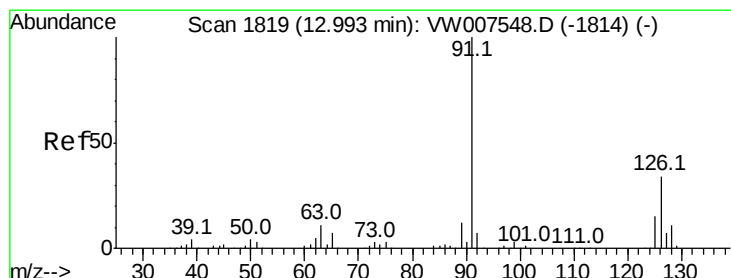
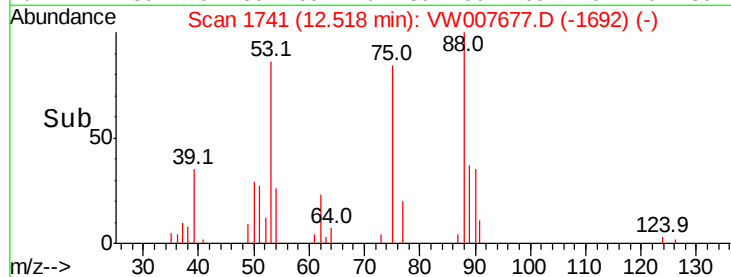
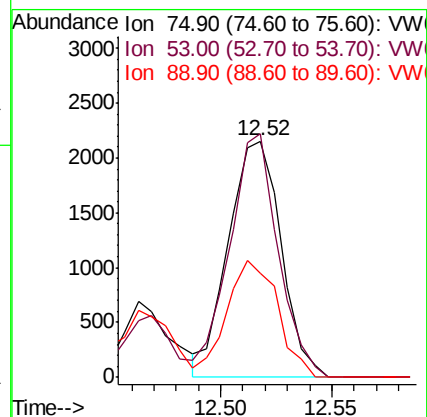
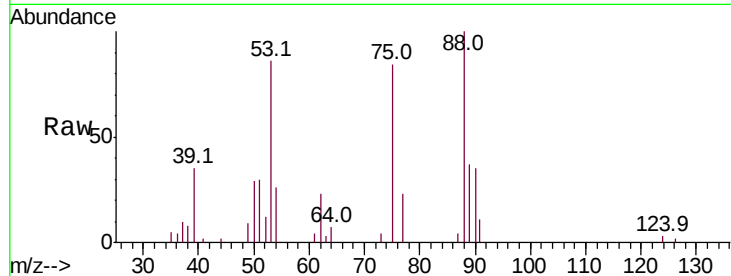
Tot Ion: 75 Resp: 3540

Ion Ratio Lower Upper

75 100

53 95.2 84.9 127.3

89 47.9 40.3 60.5



#82

4-Chlorotoluene

Concen: 22.166 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW007677.D

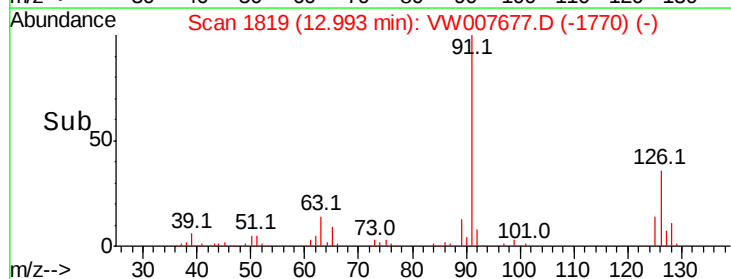
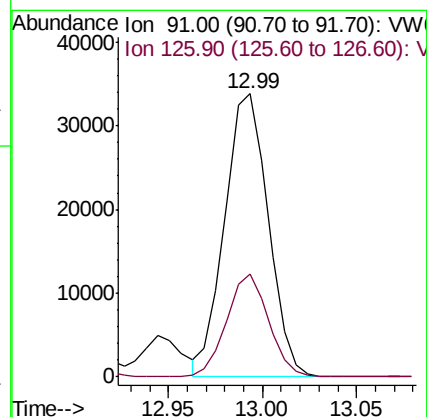
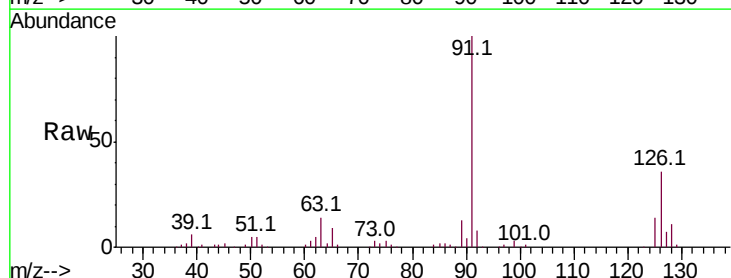
Acq: 19 Dec 2018 01:31

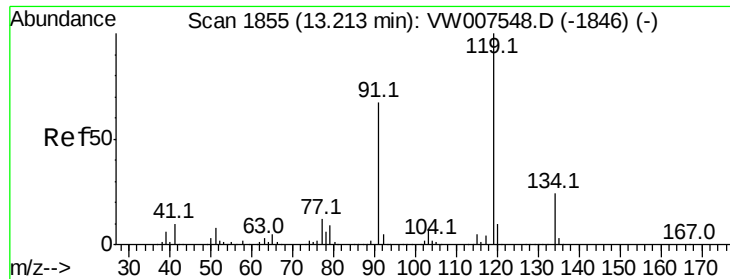
Tgt Ion: 91 Resp: 54385

Ion Ratio Lower Upper

91 100

126 35.0 16.0 48.0





#83

tert-Butylbenzene

Concen: 22.947 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampleId :

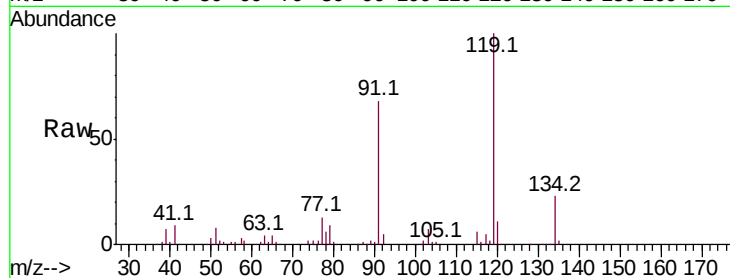
Tot Ion:119 Resp: 58074

Ion Ratio Lower Upper

119 100

91 67.4 33.1 99.2

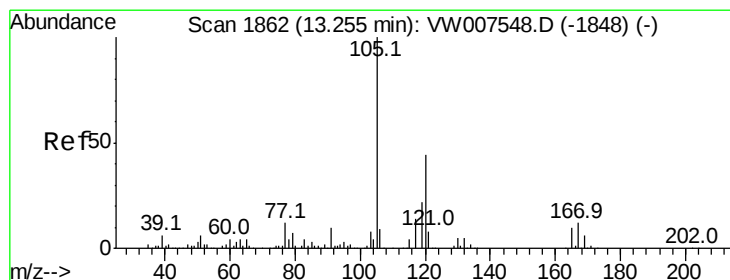
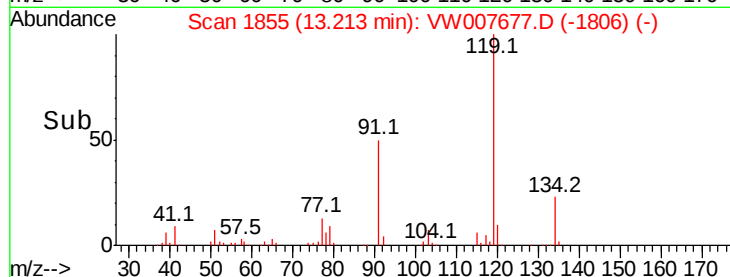
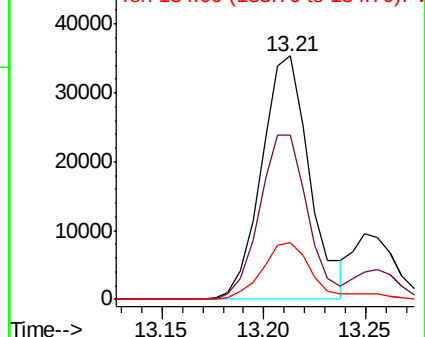
134 25.2 12.5 37.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.507 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW007677.D

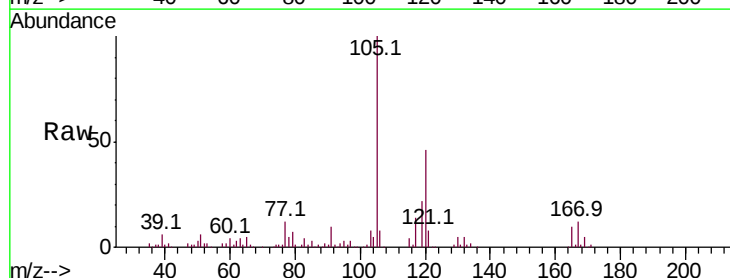
Acq: 19 Dec 2018 01:31

Tgt Ion:105 Resp: 66522

Ion Ratio Lower Upper

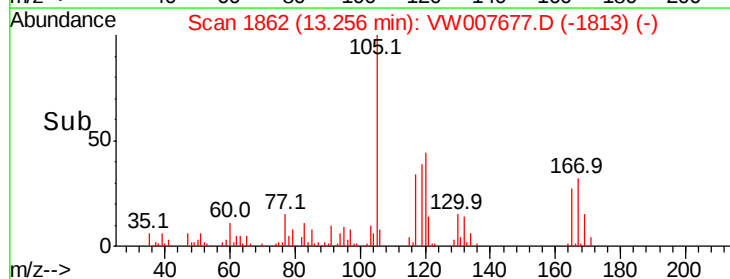
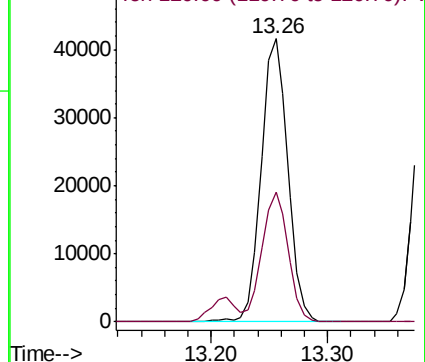
105 100

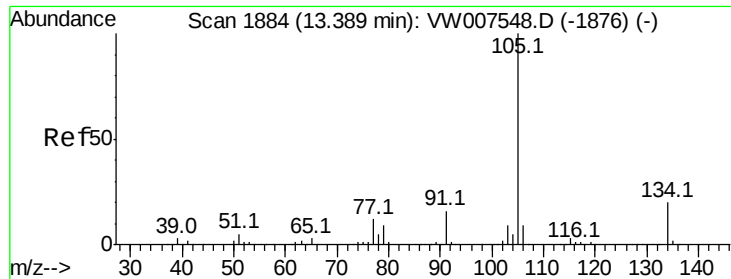
120 45.1 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

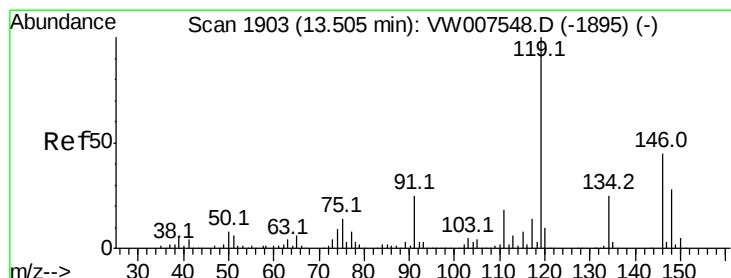
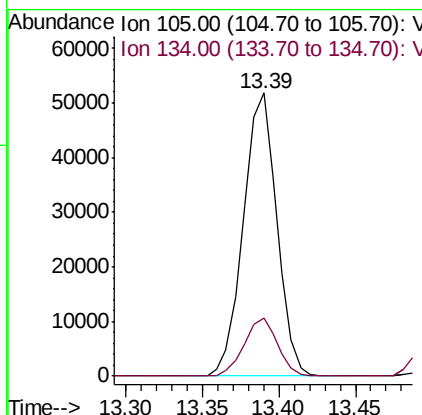
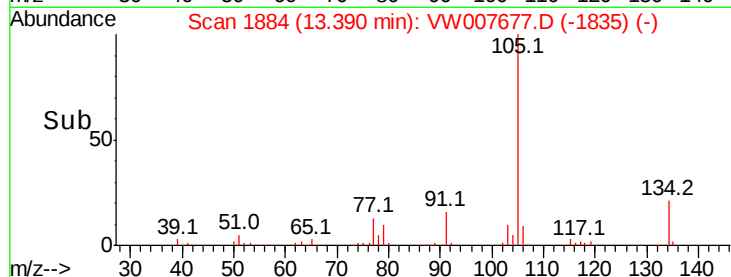
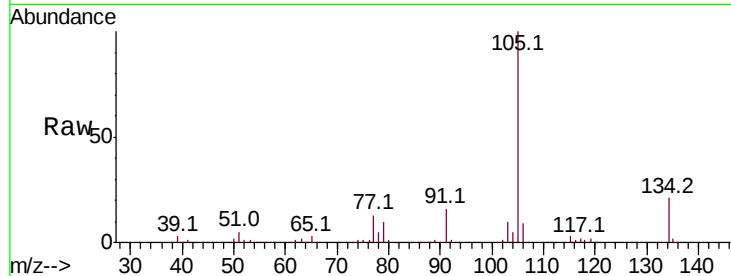




#85  
 sec-Butylbenzene  
 Concen: 22.805 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

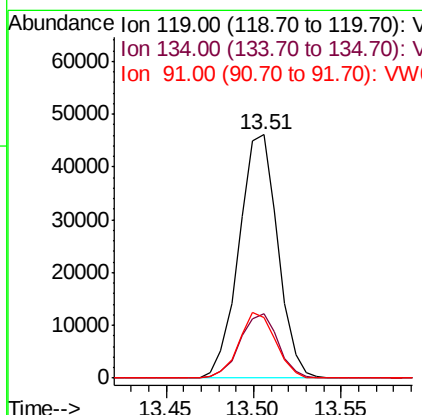
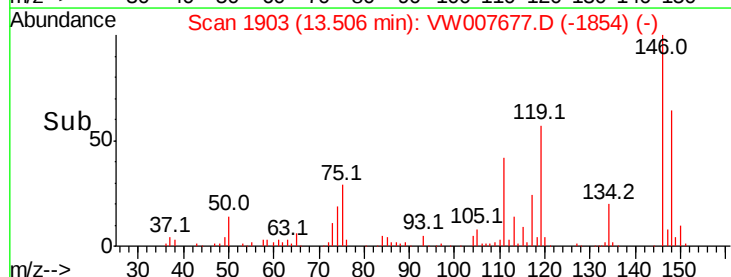
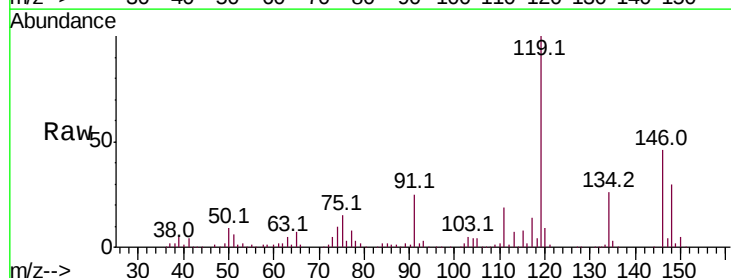
Instrument :  
 MSVOA\_W  
 ClientSampleId :

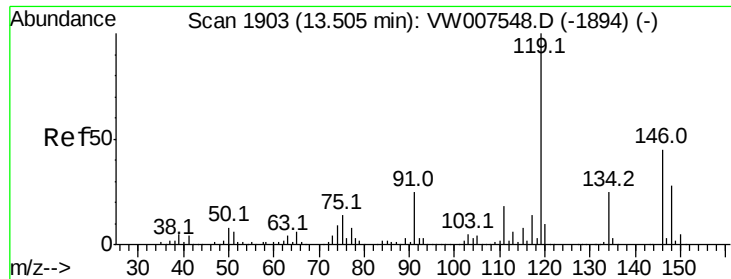
Tot Ion:105 Resp: 78785  
 Ion Ratio Lower Upper  
 105 100  
 134 20.5 11.1 33.3



#86  
 p-Isopropyltoluene  
 Concen: 22.887 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion:119 Resp: 71033  
 Ion Ratio Lower Upper  
 119 100  
 134 25.9 12.9 38.7  
 91 25.7 11.9 35.9

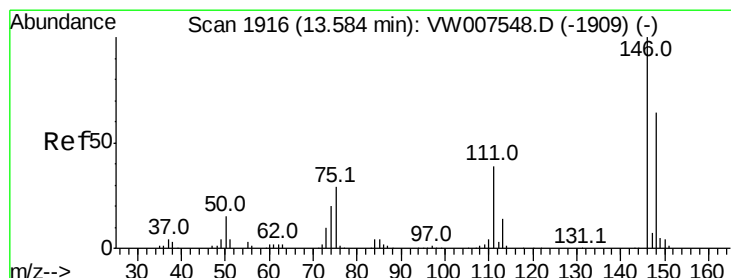
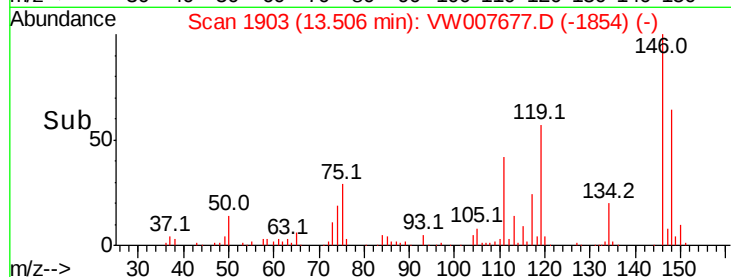
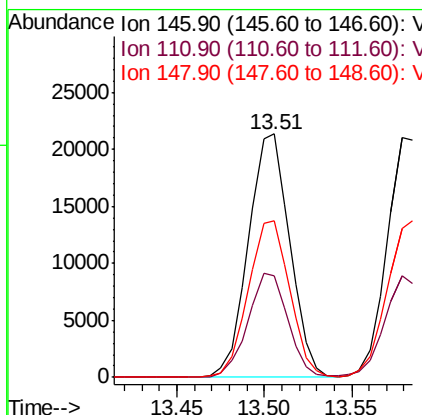
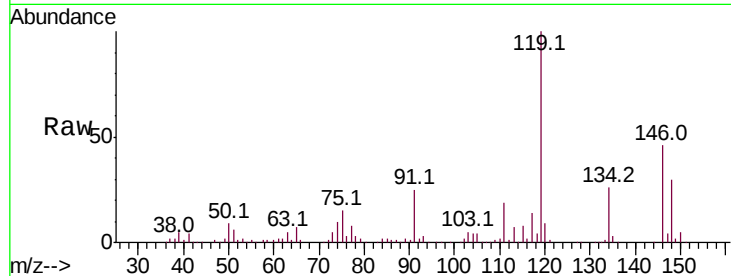




#87  
 1,3-Dichlorobenzene  
 Concen: 23.187 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

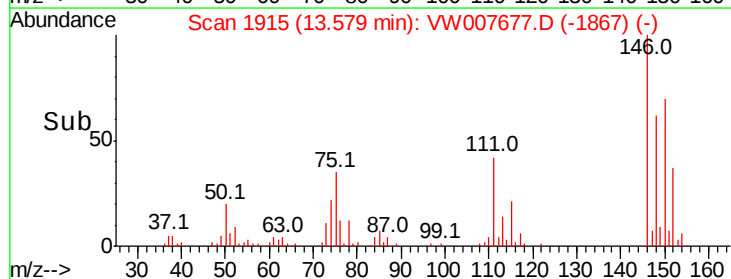
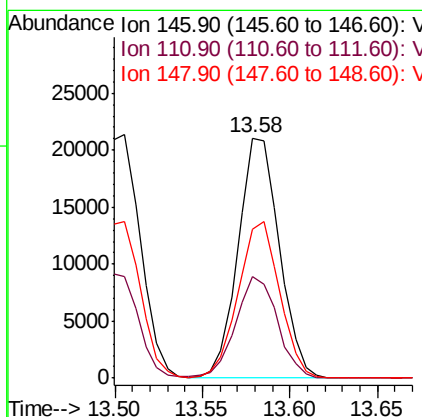
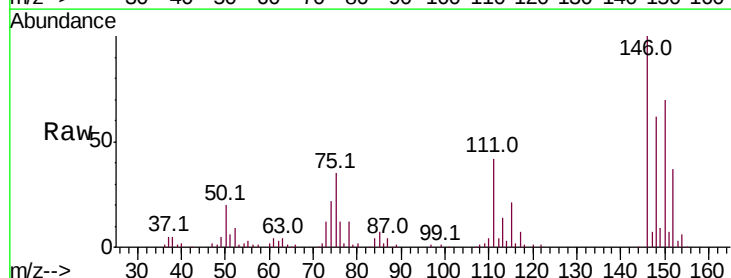
Instrument :  
 MSVOA\_W  
 ClientSampled :

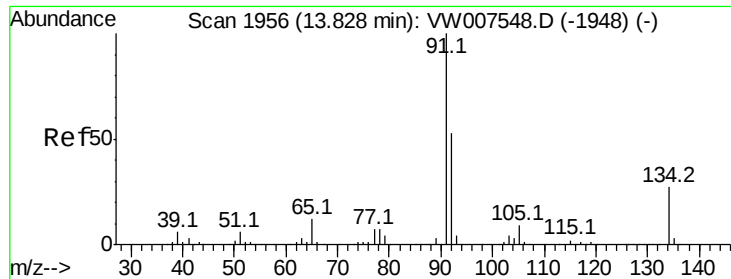
Tot Ion:146 Resp: 35028  
 Ion Ratio Lower Upper  
 146 100  
 111 41.6 20.1 60.3  
 148 64.6 31.4 94.0



#88  
 1,4-Dichlorobenzene  
 Concen: 22.792 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion:146 Resp: 34615  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 20.3 61.0  
 148 65.5 33.5 100.5





#89

n-Butylbenzene

Concen: 22.524 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW007677.D

Acq: 19 Dec 2018 01:31

Instrument :

MSVOA\_W

ClientSampleId :

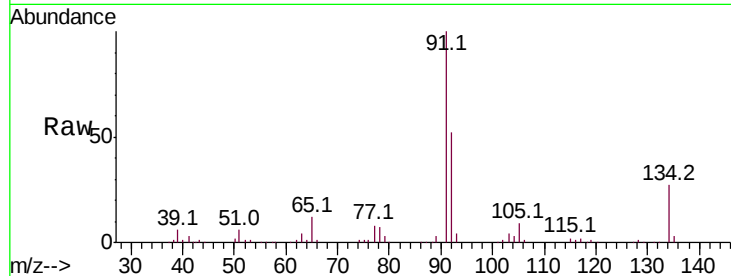
Tot Ion: 91 Resp: 64807

Ion Ratio Lower Upper

91 100

92 52.8 25.7 77.1

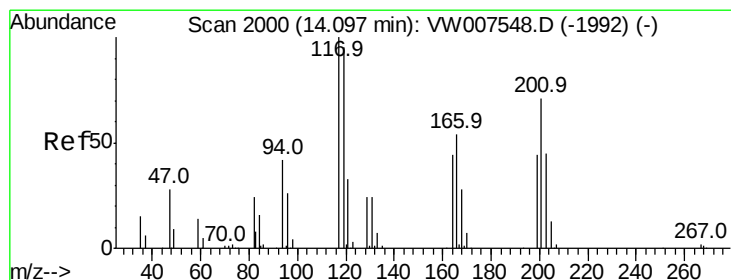
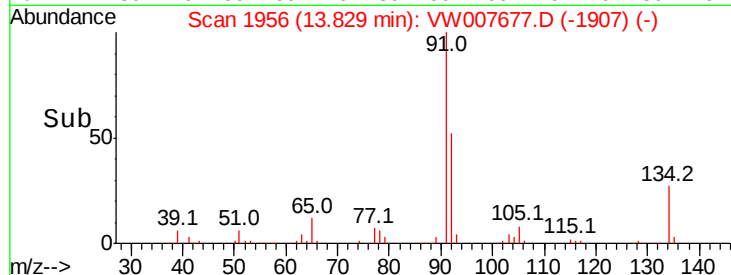
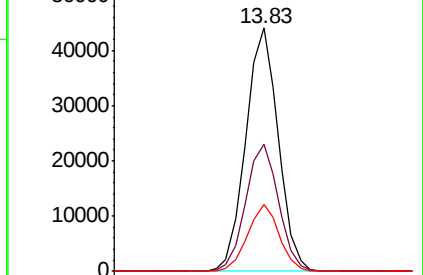
134 26.7 13.4 40.2



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: 23.121 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW007677.D

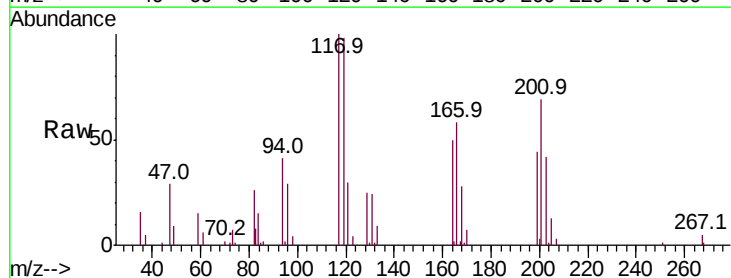
Acq: 19 Dec 2018 01:31

Tgt Ion: 117 Resp: 12768

Ion Ratio Lower Upper

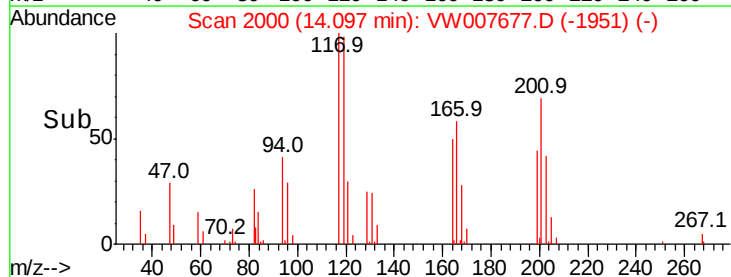
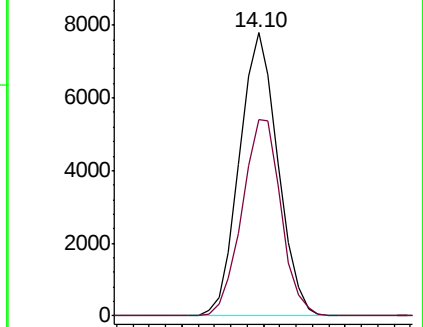
117 100

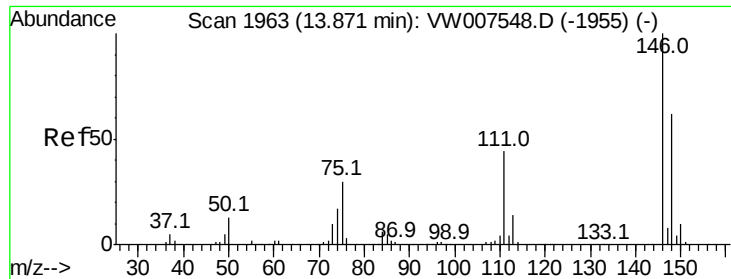
201 70.4 35.3 105.9



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

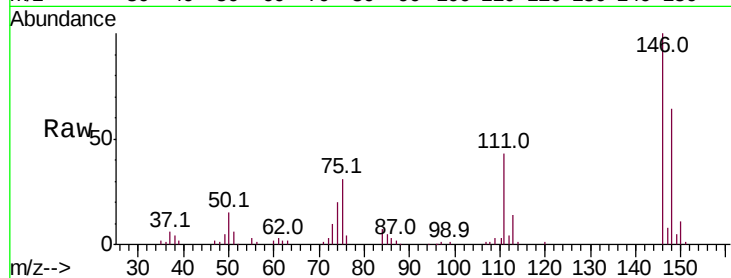




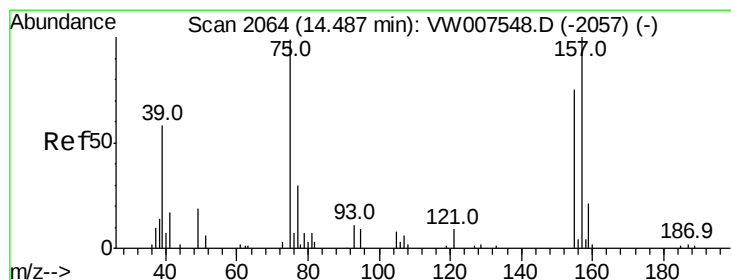
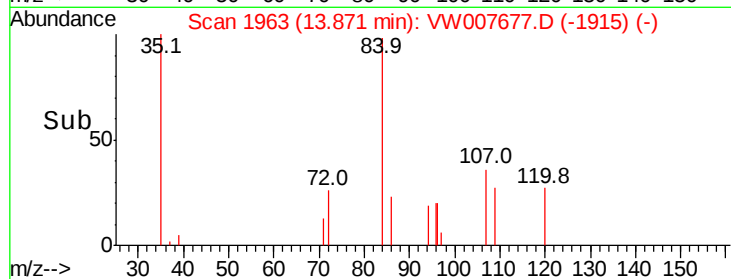
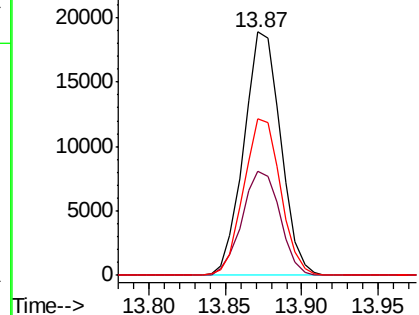
#91  
 1,2-Dichlorobenzene  
 Concen: 23.358 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:146 Resp: 31604  
 Ion Ratio Lower Upper  
 146 100  
 111 43.9 22.4 67.2  
 148 64.3 32.4 97.2

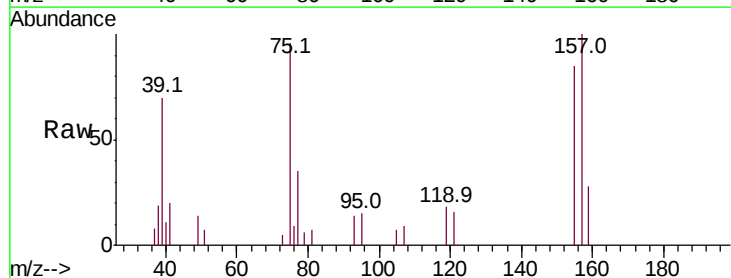


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

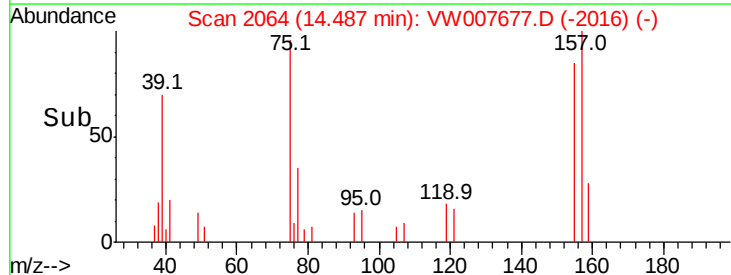
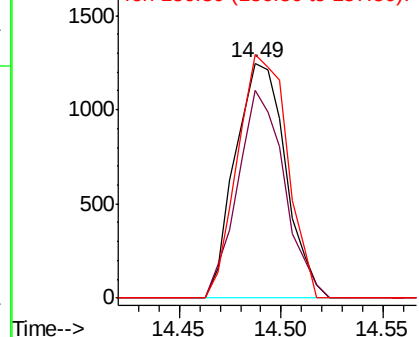


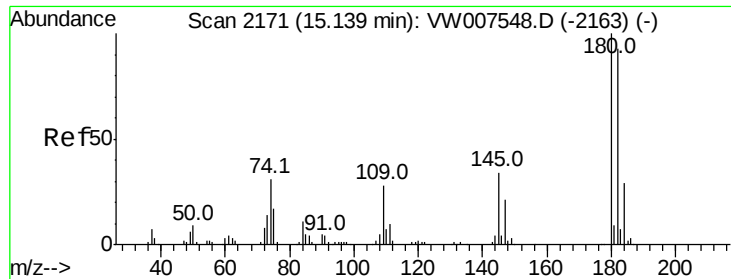
#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 21.024 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Tgt Ion: 75 Resp: 2136  
 Ion Ratio Lower Upper  
 75 100  
 155 82.2 40.8 122.2  
 157 102.5 51.1 153.4



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

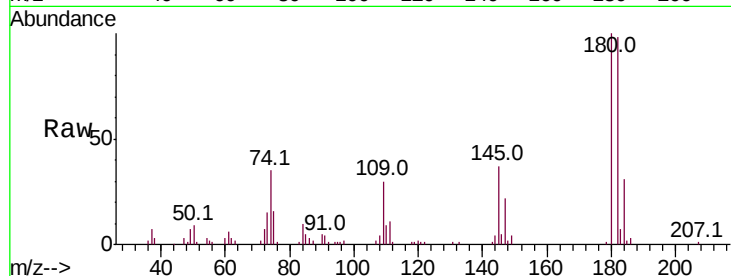




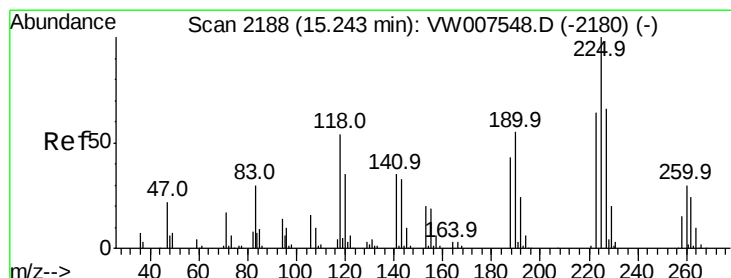
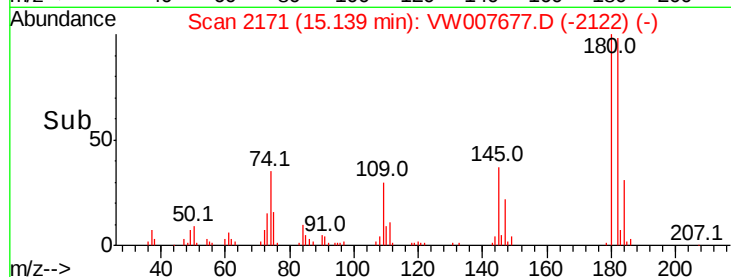
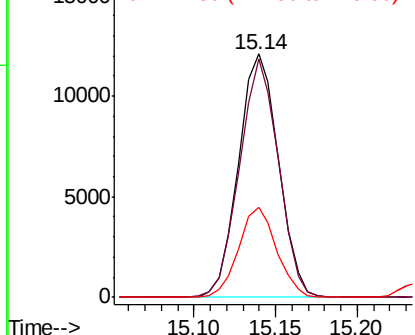
#93  
 1,2,4-Trichlorobenzene  
 Concen: 22.177 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.4  | 49.9  | 149.6 |
| 145     | 35.0  | 17.8  | 53.4  |

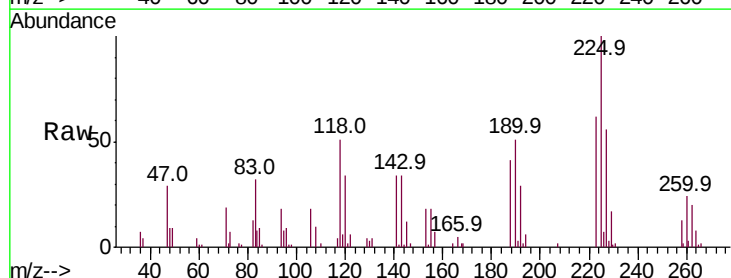


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

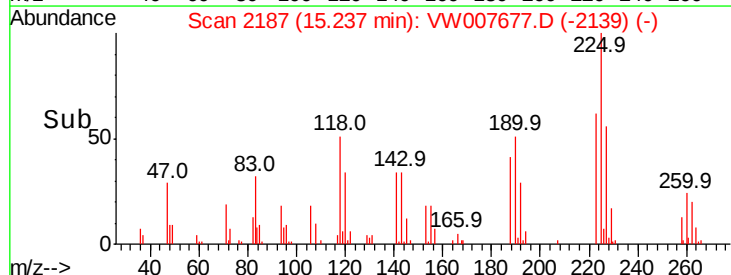
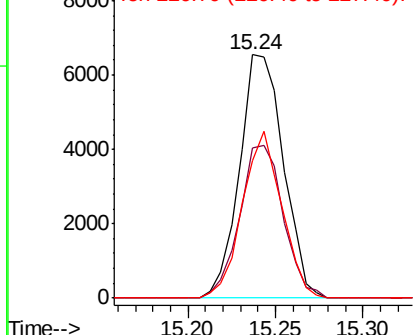


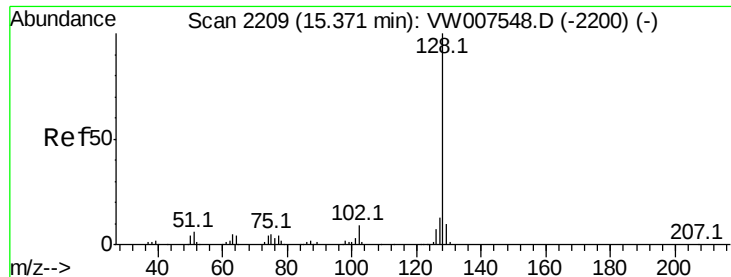
#94  
 Hexachlorobutadiene  
 Concen: 23.172 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.01 min  
 Lab File: VW007677.D  
 Acq: 19 Dec 2018 01:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.6  | 32.1  | 96.3  |
| 227     | 61.2  | 31.9  | 95.9  |



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V

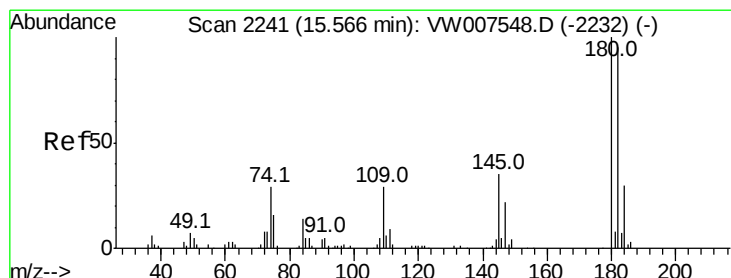
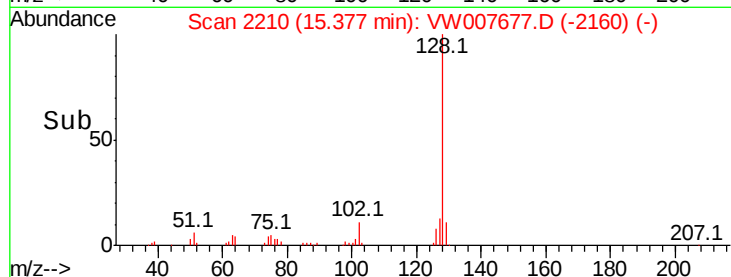
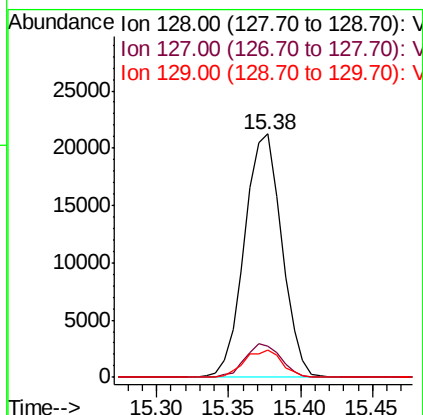
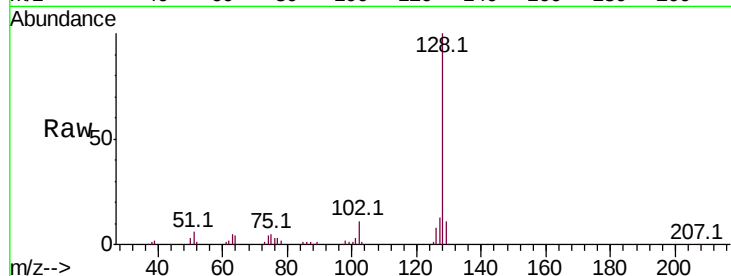




#95  
Naphthalene  
Concen: 21.404 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.01 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:128 Resp: 38128  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.2 15.4  
129 11.1 8.3 12.5



#96  
1,2,3-Trichlorobenzene  
Concen: 22.701 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VW007677.D  
Acq: 19 Dec 2018 01:31

Tgt Ion:180 Resp: 18362  
Ion Ratio Lower Upper  
180 100  
182 96.1 45.6 136.7  
145 36.3 17.5 52.5

