

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW012220\  
 Data File : VW014711.D  
 Acq On : 22 Jan 2020 14:06  
 Operator : SY/VA  
 Sample : VW0122SBL01  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0122SBL01

Quant Time: Jan 22 15:13:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 03 16:07:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 642925   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1022502  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 866095   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 402572   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 320599   | 57.03 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.06% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 312177   | 53.42 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.84% |          |
| 50) Toluene-d8              | 10.32 | 98   | 1256196  | 51.51 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.02% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 405004   | 48.96 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.92%  |          |

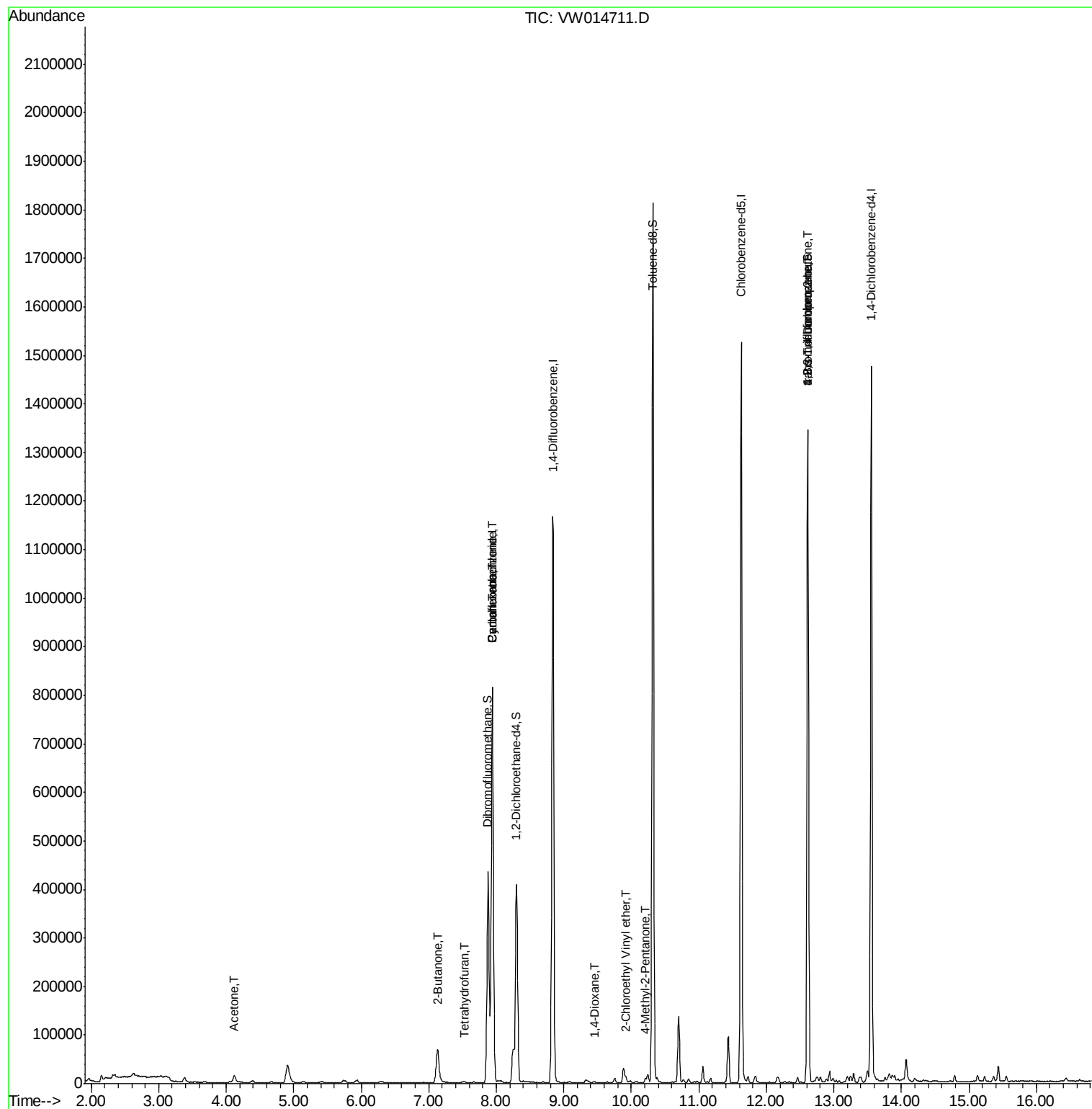
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 11) Tert butyl alcohol         | 5.15  | 59   | 3823     | Below Cal | #     | 86     |
| 16) Acetone                    | 4.12  | 43   | 29386    | 18.51     | ug/l  | 96     |
| 25) 2-Butanone                 | 7.13  | 43   | 3247     | 1.59      | ug/l  | # 79   |
| 29) Tetrahydrofuran            | 7.52  | 42   | 1507     | 1.19      | ug/l  | # 88   |
| 31) Cyclohexane                | 7.94  | 56   | 14014    | 1.17      | ug/l  | # 1    |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 58353    | 6.82      | ug/l  | # 17   |
| 49) 1,4-Dioxane                | 9.45  | 88   | 211      | 3.34      | ug/l  | # 33   |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 8620     | 2.04      | ug/l  | # 75   |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 4198     | 2.15      | ug/l  | # 94   |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 200996   | 52.81     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 200996   | 117.66    | ug/l  | # 14   |

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

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Quant Title : SW846 8260  
QLast Update : Fri Jan 03 16:07:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW014711.D

Acq: 22 Jan 2020 14:06

Instrument :

MSVOA\_W

ClientSampleId :

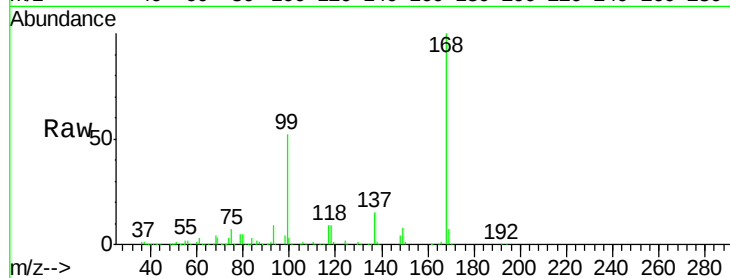
VW0122SBL01

Tgt Ion:168 Resp: 642925

Ion Ratio Lower Upper

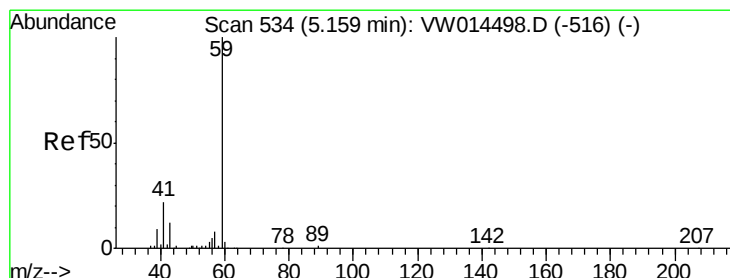
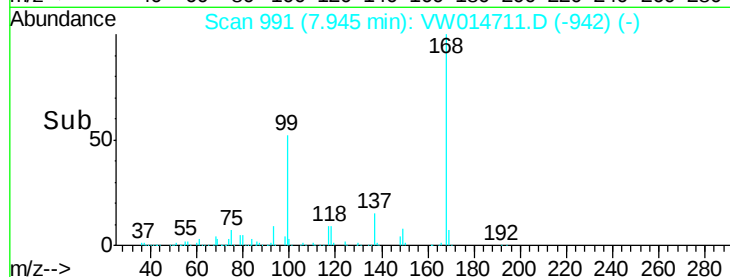
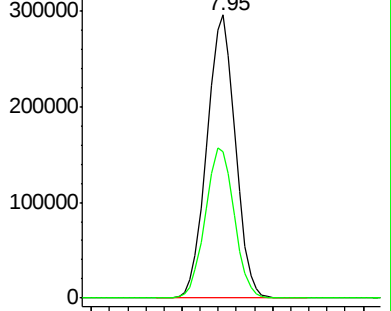
168 100

99 51.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.15 min Scan# 532

Delta R.T. -0.01 min

Lab File: VW014711.D

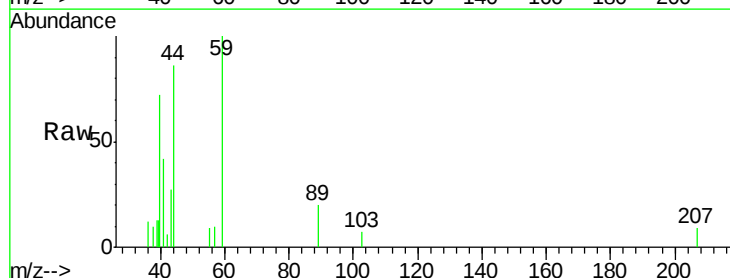
Acq: 22 Jan 2020 14:06

Tgt Ion: 59 Resp: 3823

Ion Ratio Lower Upper

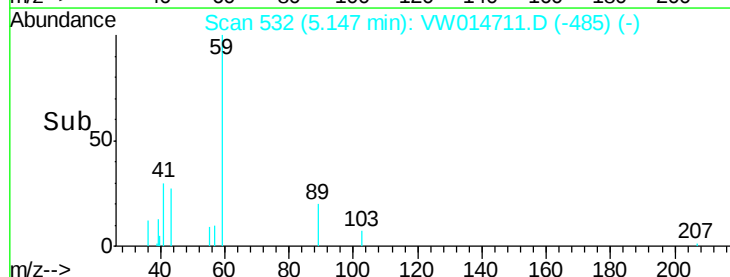
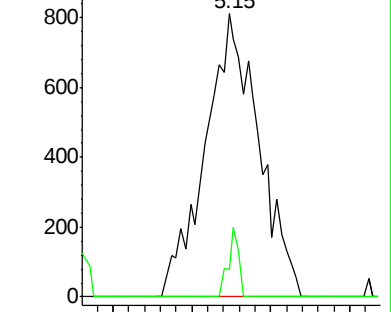
59 100

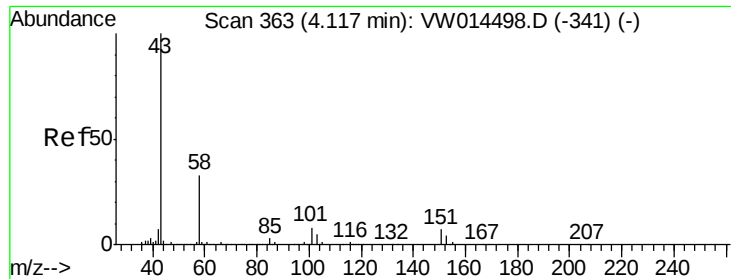
57 4.8 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 18.51 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014711.D

Acq: 22 Jan 2020 14:06

Instrument :

MSVOA\_W

ClientSampleId :

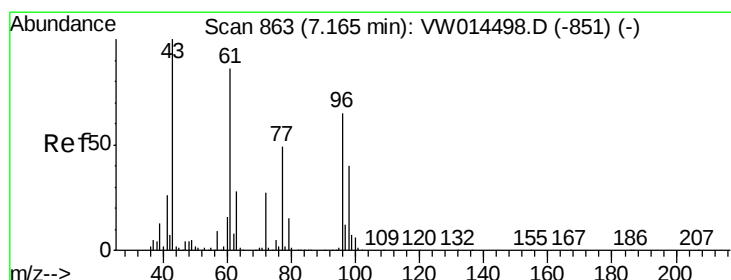
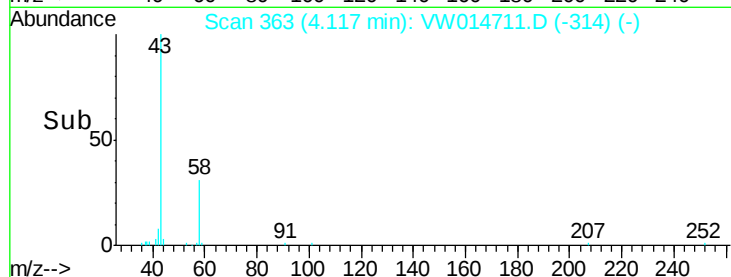
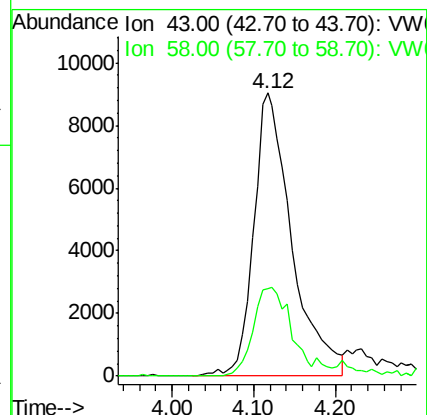
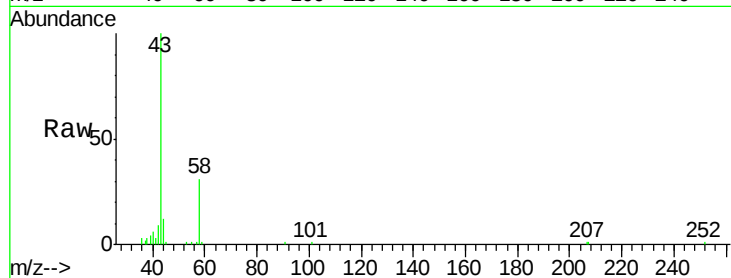
VW0122SBL01

Tgt Ion: 43 Resp: 29386

Ion Ratio Lower Upper

43 100

58 30.9 26.6 39.8



#25

2-Butanone

Concen: 1.59 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW014711.D

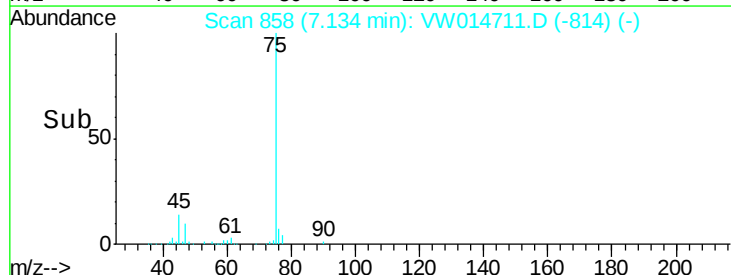
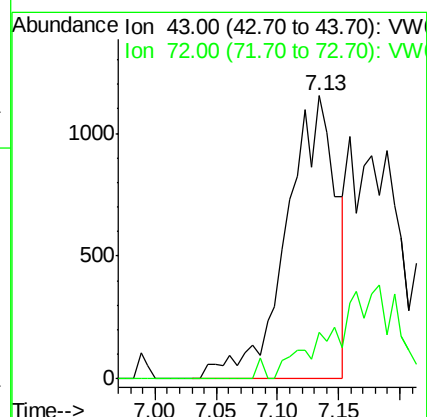
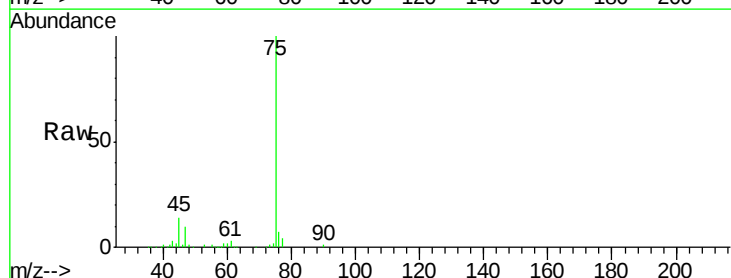
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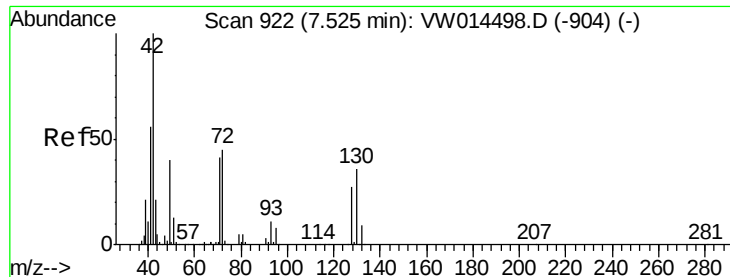
Tgt Ion: 43 Resp: 3247

Ion Ratio Lower Upper

43 100

72 16.2 21.9 32.9#

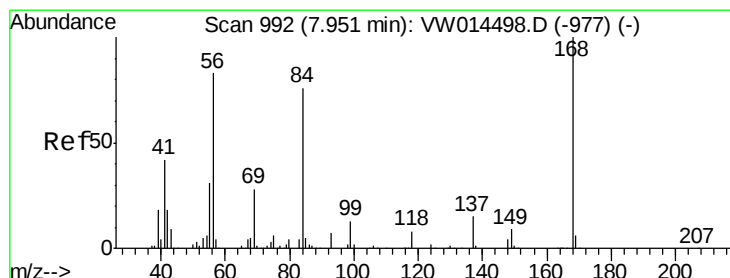
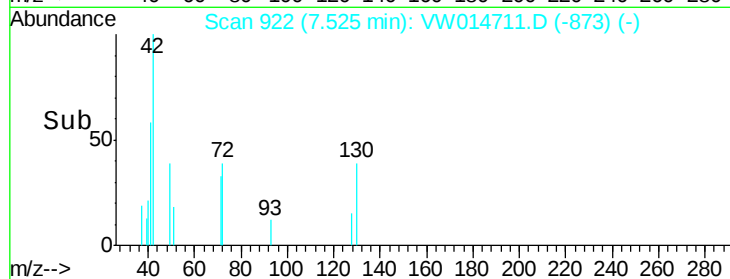
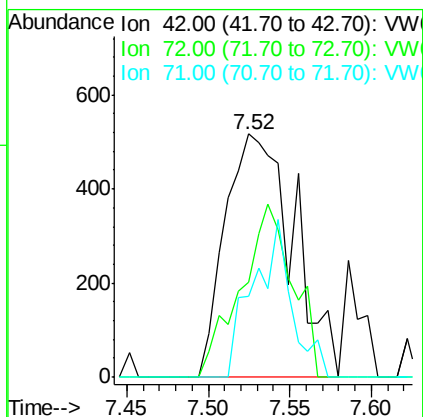
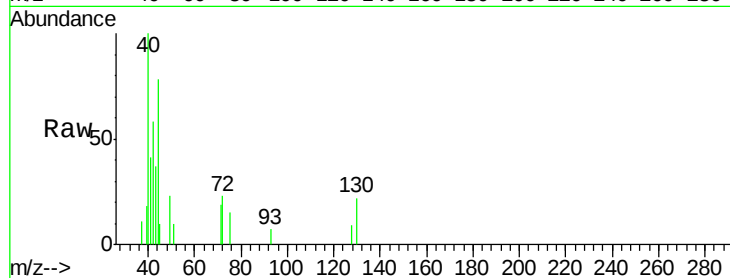




#29  
Tetrahydrofuran  
Concen: 1.19 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: VW014711.D  
Acq: 22 Jan 2020 14:06

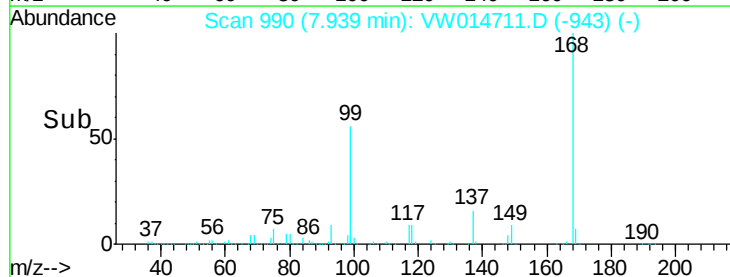
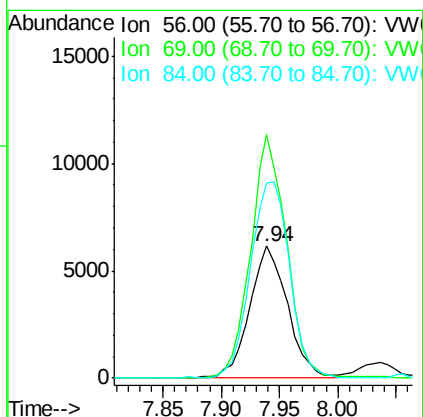
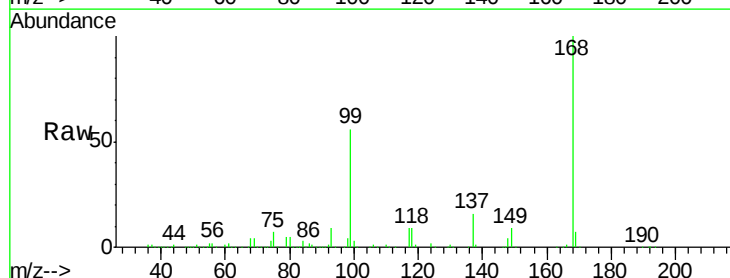
Instrument :  
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VW0122SBL01

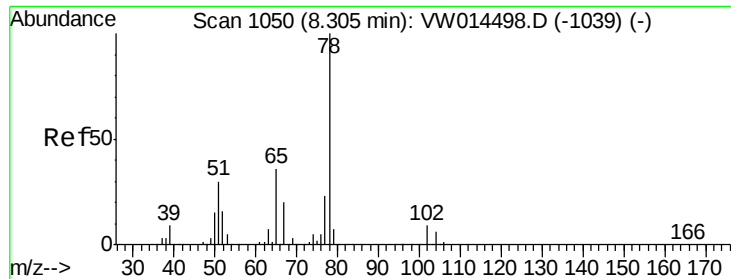
Tgt Ion: 42 Resp: 1507  
Ion Ratio Lower Upper  
42 100  
72 54.3 34.5 51.7#  
71 36.0 32.0 48.0



#31  
Cyclohexane  
Concen: 1.17 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW014711.D  
Acq: 22 Jan 2020 14:06

Tgt Ion: 56 Resp: 14014  
Ion Ratio Lower Upper  
56 100  
69 184.3 26.8 40.2#  
84 148.0 71.8 107.6#

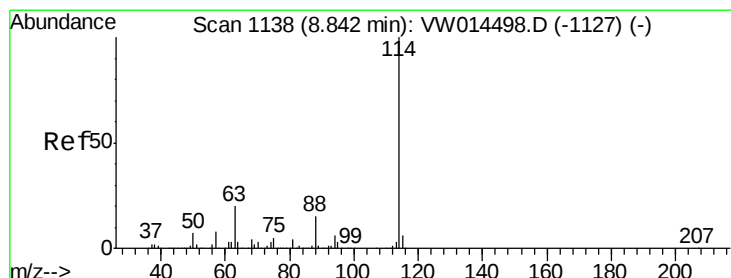
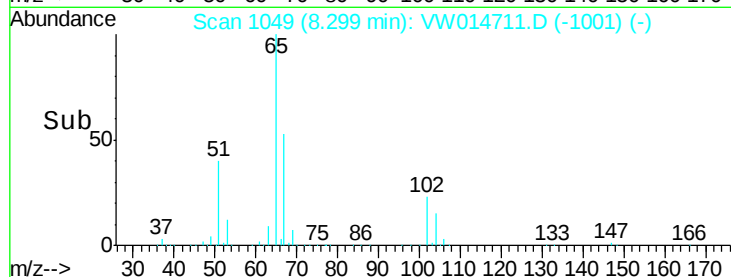
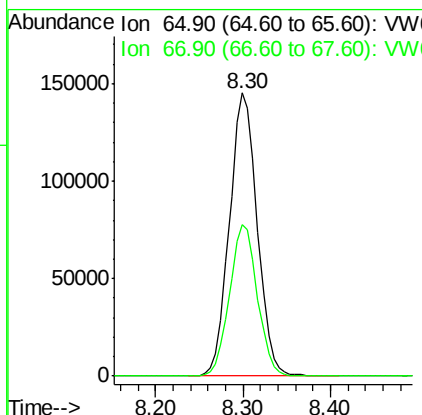
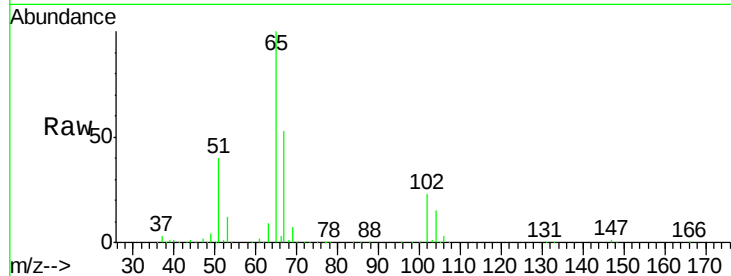




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.03 ug/l  
 RT: 8.30 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VW014711.D  
 Acq: 22 Jan 2020 14:06

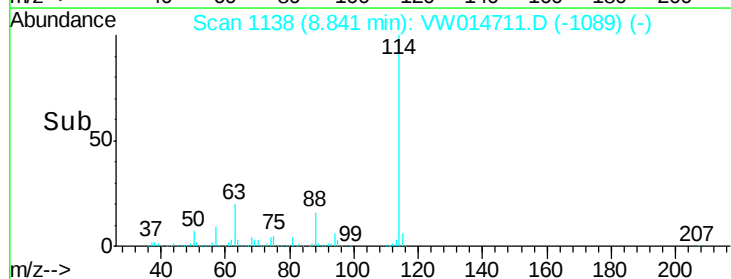
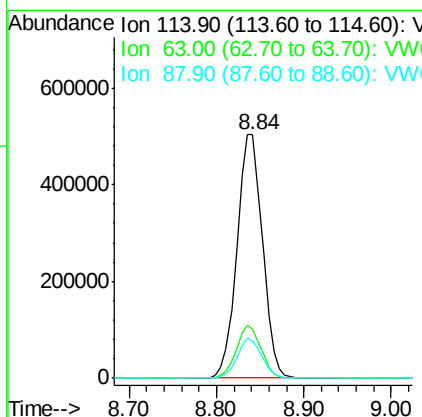
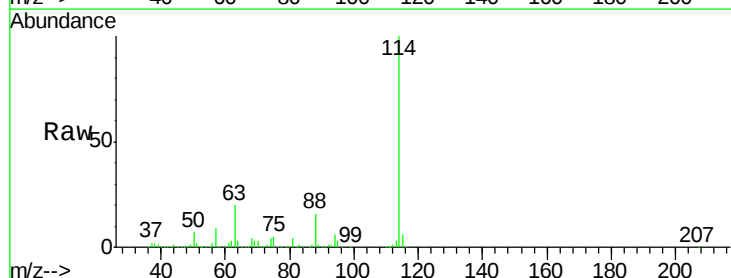
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0122SBL01

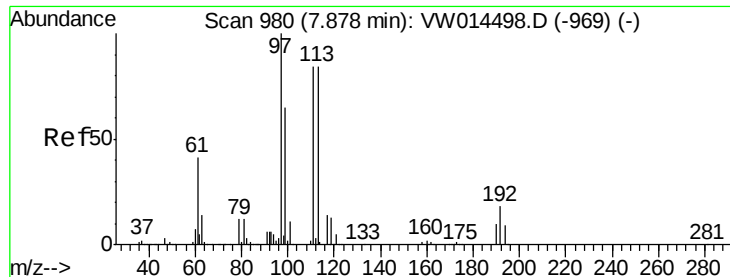
Tgt Ion: 65 Resp: 320599  
 Ion Ratio Lower Upper  
 65 100  
 67 53.7 0.0 108.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW014711.D  
 Acq: 22 Jan 2020 14:06

Tgt Ion: 114 Resp: 1022502  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 40.4  
 88 15.5 0.0 30.6

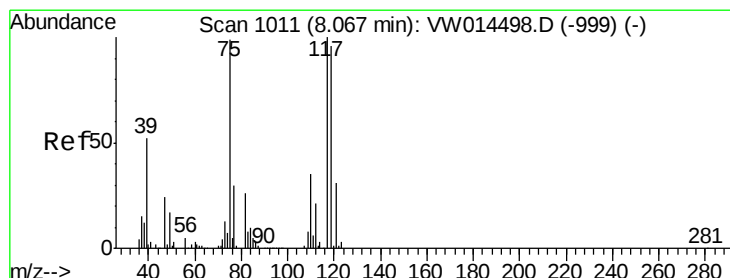
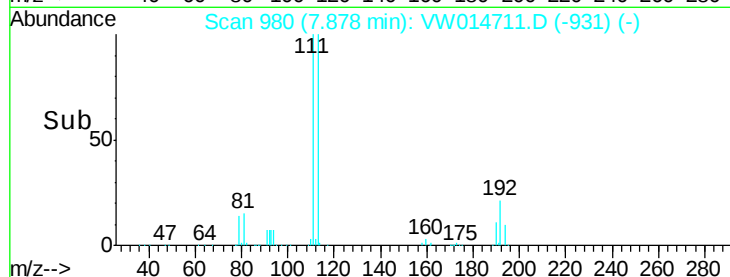
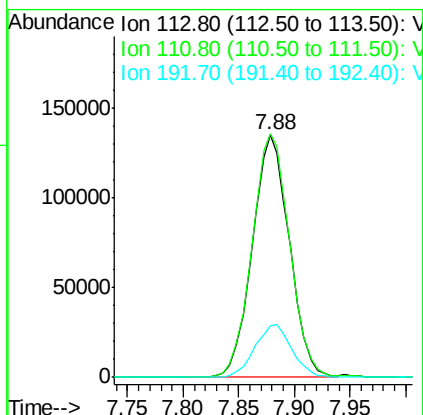
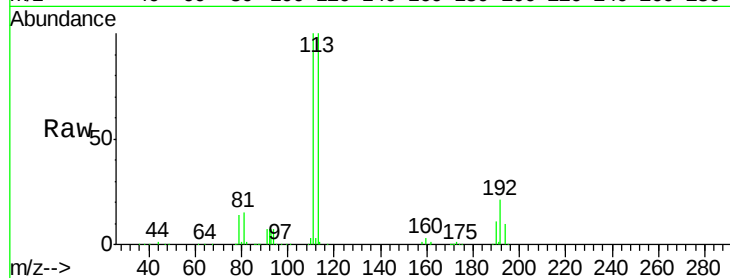




#35  
 Dibromofluoromethane  
 Concen: 53.42 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW014711.D  
 Acq: 22 Jan 2020 14:06

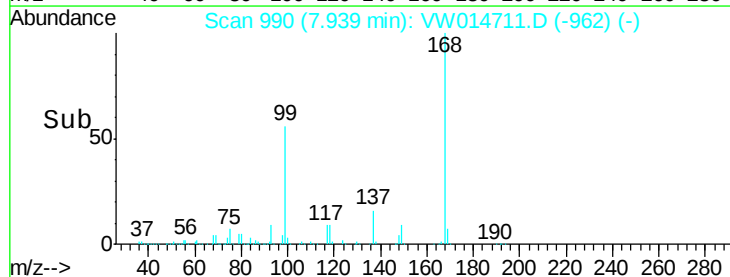
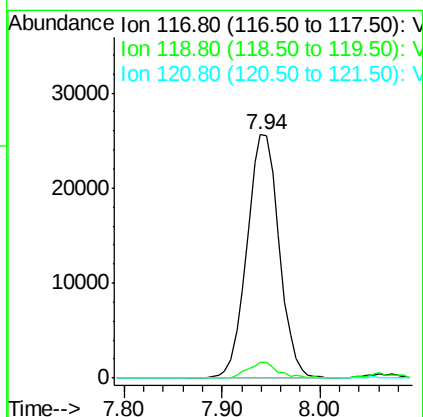
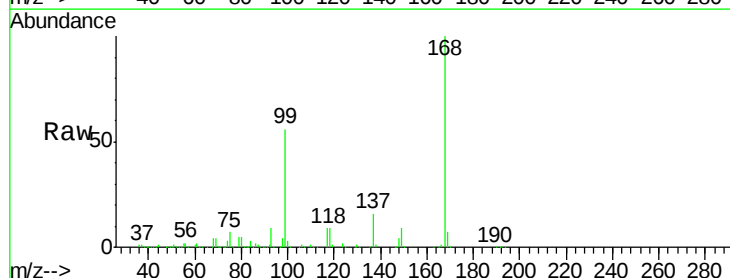
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0122SBL01

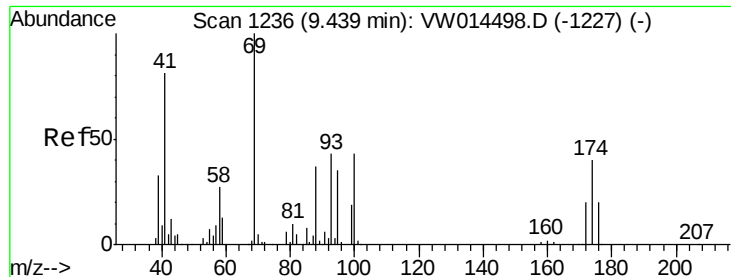
Tgt Ion:113 Resp: 312177  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.4 122.2  
 192 21.9 17.8 26.8



#38  
 Carbon Tetrachloride  
 Concen: 6.82 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.13 min  
 Lab File: VW014711.D  
 Acq: 22 Jan 2020 14:06

Tgt Ion:117 Resp: 58353  
 Ion Ratio Lower Upper  
 117 100  
 119 6.6 77.0 115.6#  
 121 0.0 24.6 36.8#





#49

1,4-Dioxane

Concen: 3.34 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VW014711.D

Acq: 22 Jan 2020 14:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0122SBL01

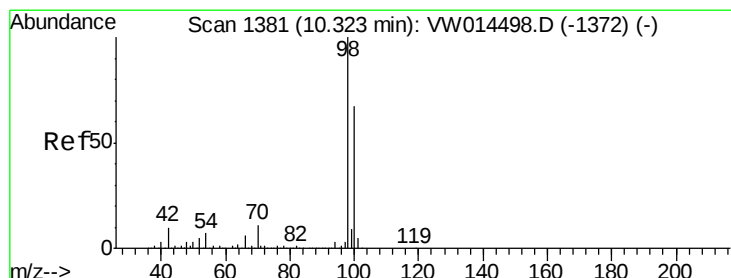
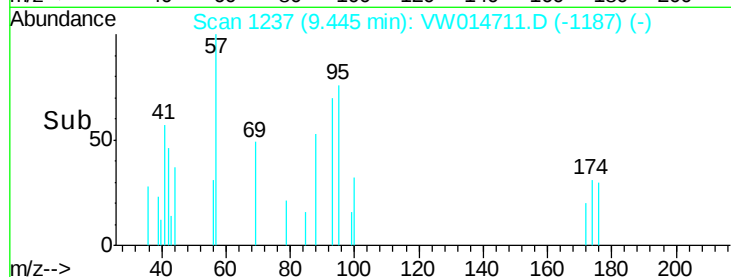
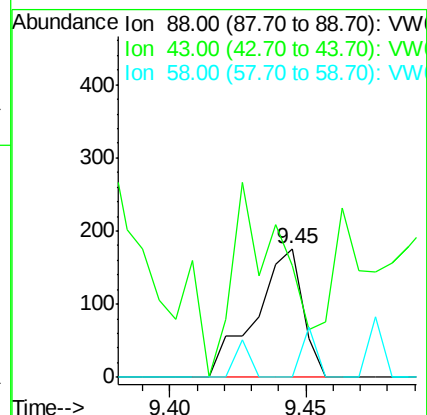
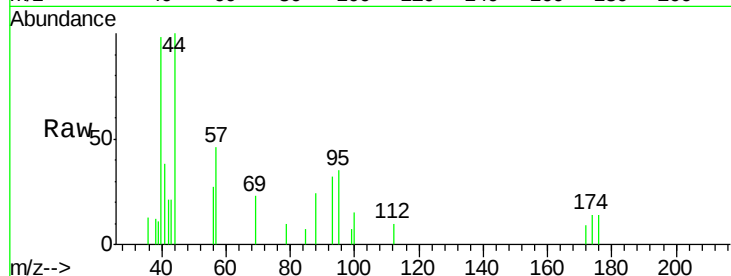
Tgt Ion: 88 Resp: 211

Ion Ratio Lower Upper

88 100

43 0.0 24.9 37.3#

58 11.8 56.9 85.3#



#50

Toluene-d8

Concen: 51.51 ug/l

RT: 10.32 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VW014711.D

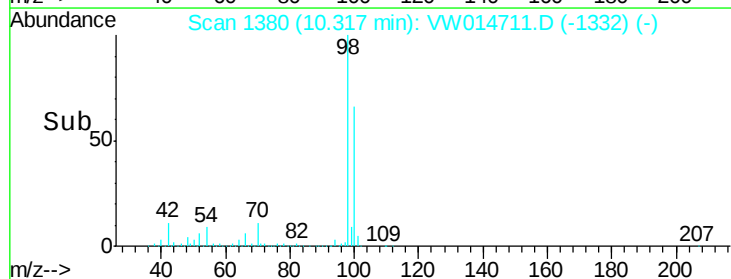
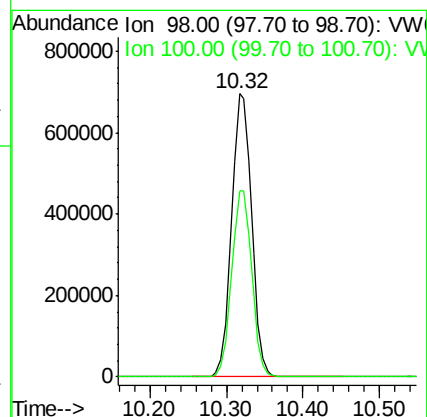
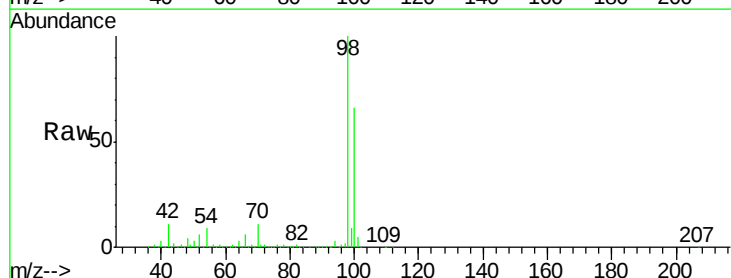
Acq: 22 Jan 2020 14:06

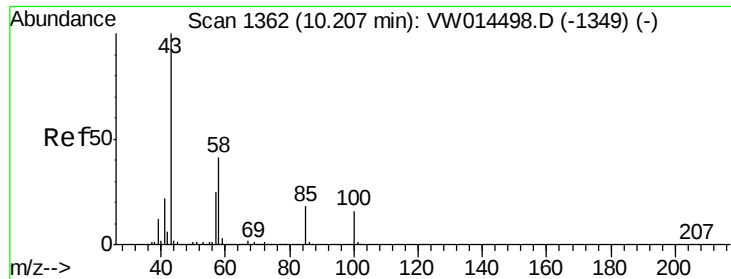
Tgt Ion: 98 Resp: 1256196

Ion Ratio Lower Upper

98 100

100 65.9 53.8 80.6

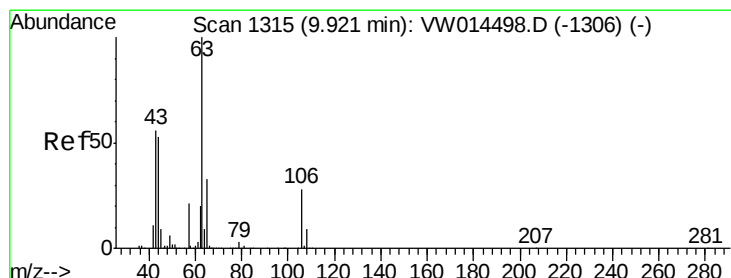
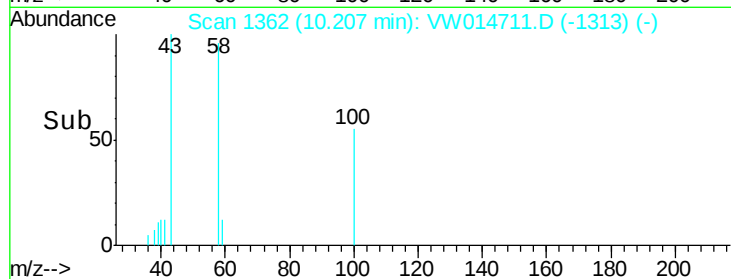
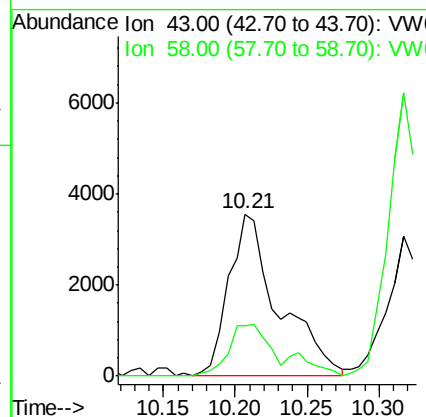
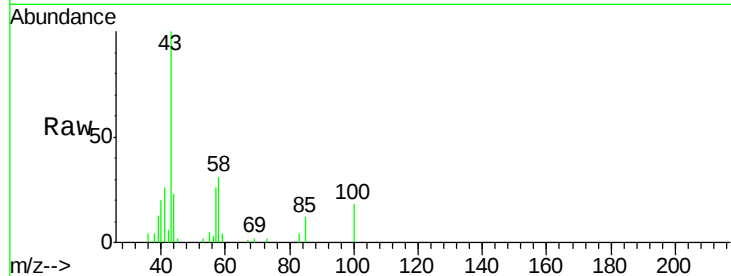




#51  
 4-Methyl-2-Pentanone  
 Concen: 2.04 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW014711.D  
 Acq: 22 Jan 2020 14:06

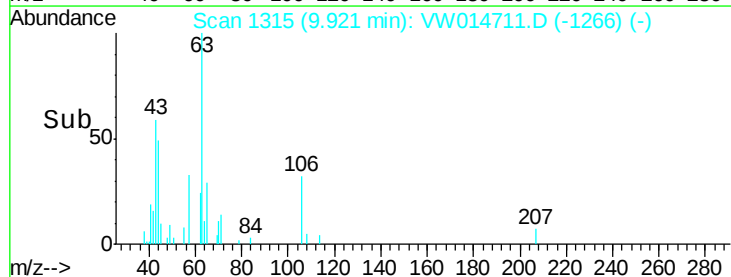
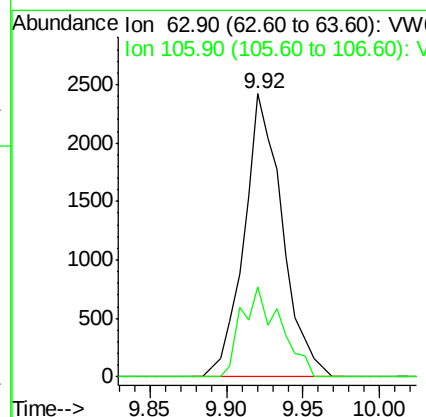
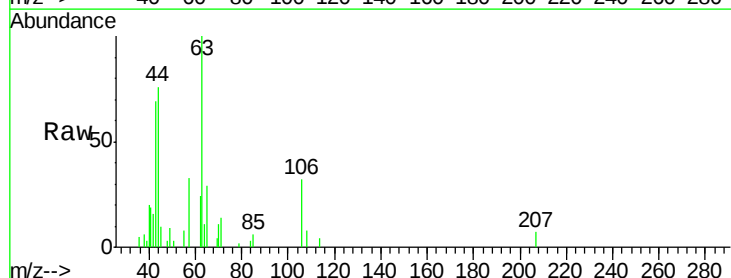
Instrument :  
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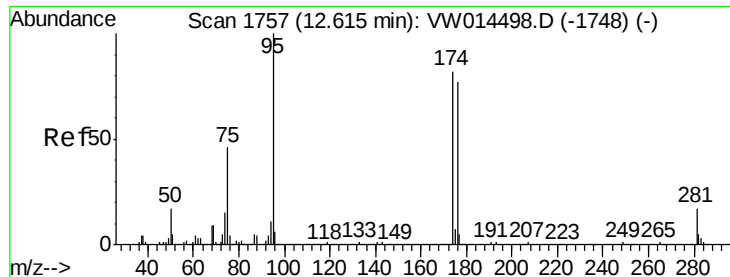
Tgt Ion: 43 Resp: 8620  
 Ion Ratio Lower Upper  
 43 100  
 58 25.4 32.7 49.1#



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 2.15 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW014711.D  
 Acq: 22 Jan 2020 14:06

Tgt Ion: 63 Resp: 4198  
 Ion Ratio Lower Upper  
 63 100  
 106 32.2 23.0 34.6

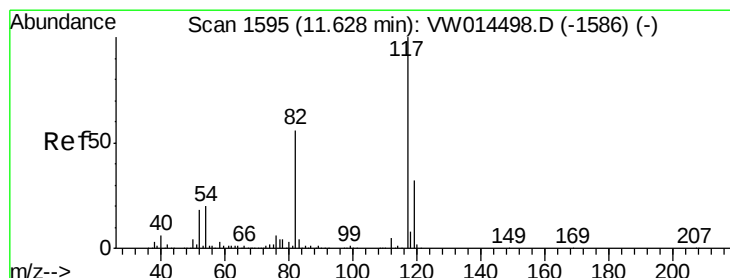
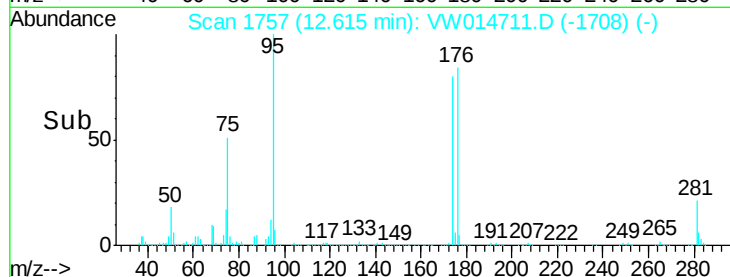
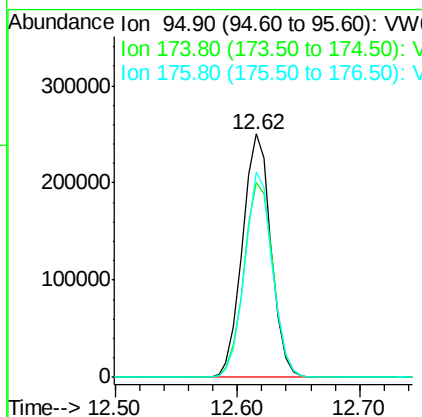
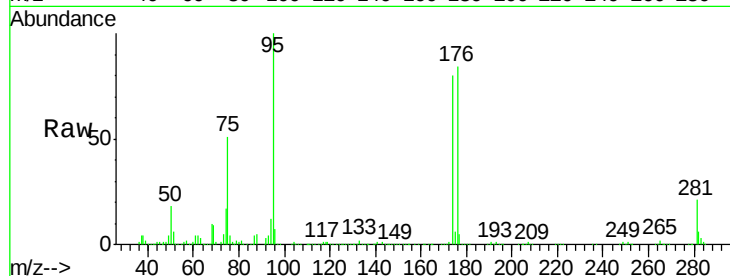




#62  
4-Bromofluorobenzene  
Concen: 48.96 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW014711.D  
Acq: 22 Jan 2020 14:06

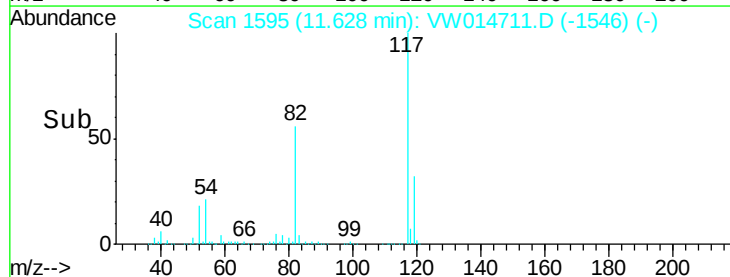
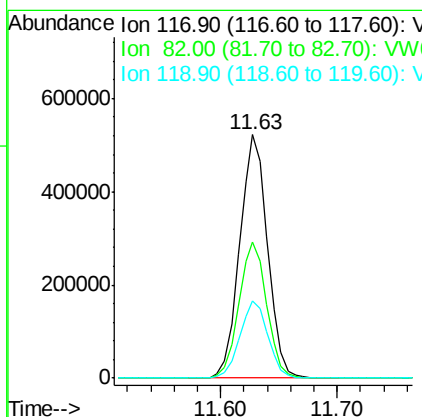
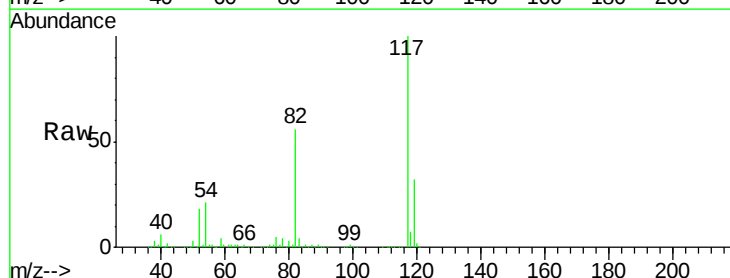
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0122SBL01

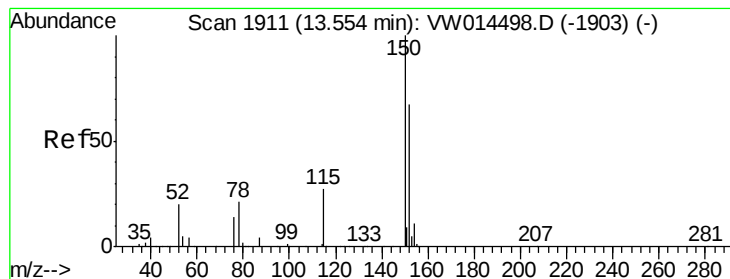
Tgt Ion: 95 Resp: 405004  
Ion Ratio Lower Upper  
95 100  
174 82.4 0.0 168.6  
176 82.1 0.0 162.0



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW014711.D  
Acq: 22 Jan 2020 14:06

Tgt Ion: 117 Resp: 866095  
Ion Ratio Lower Upper  
117 100  
82 55.9 44.6 67.0  
119 31.8 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW014711.D

Acq: 22 Jan 2020 14:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0122SBL01

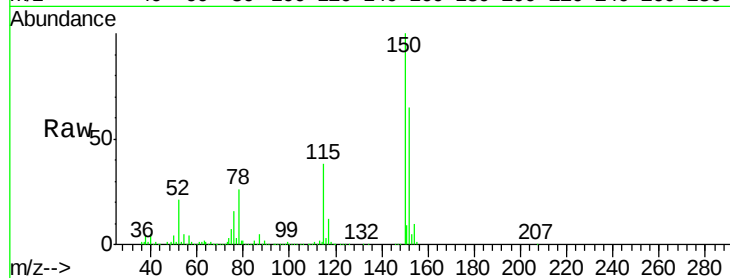
Tgt Ion:152 Resp: 402572

Ion Ratio Lower Upper

152 100

115 57.2 27.7 83.1

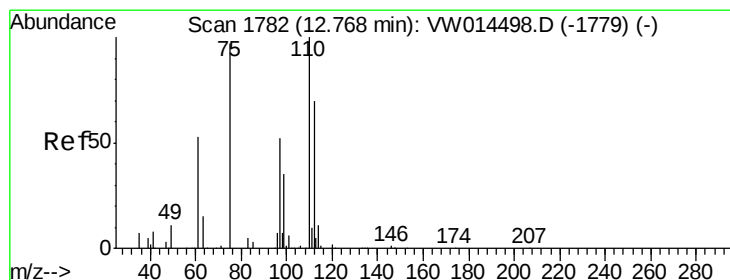
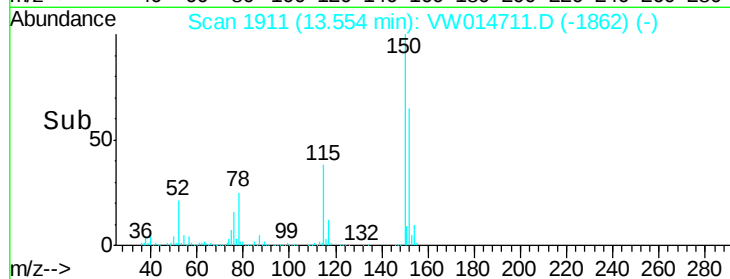
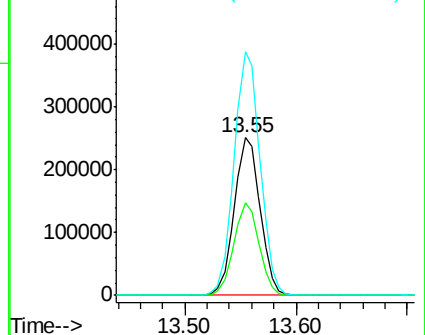
150 155.1 0.0 343.4



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



#76

1,2,3-Trichloropropane

Concen: 52.81 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014711.D

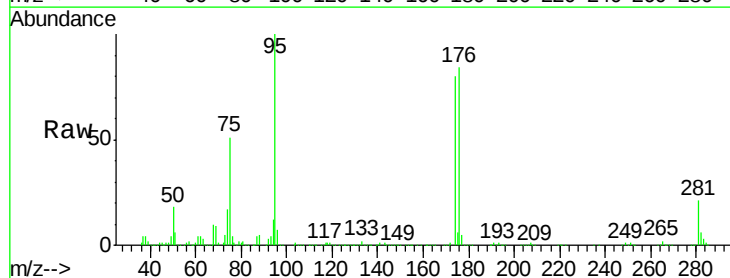
Acq: 22 Jan 2020 14:06

Tgt Ion: 75 Resp: 200996

Ion Ratio Lower Upper

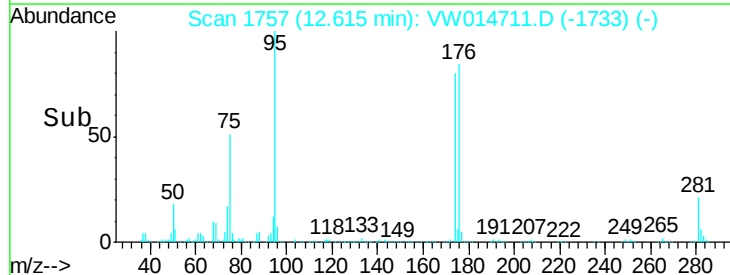
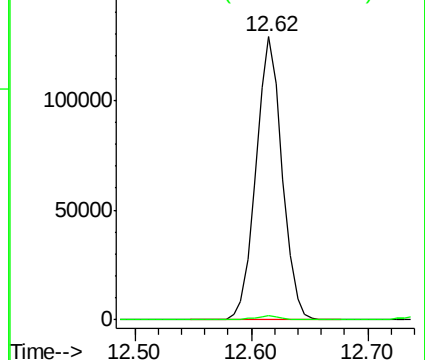
75 100

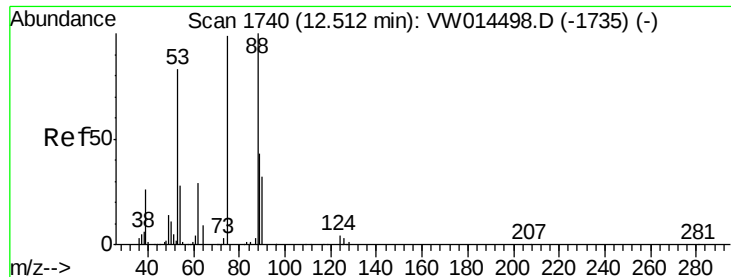
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 117.66 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014711.D

Acq: 22 Jan 2020 14:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0122SBL01

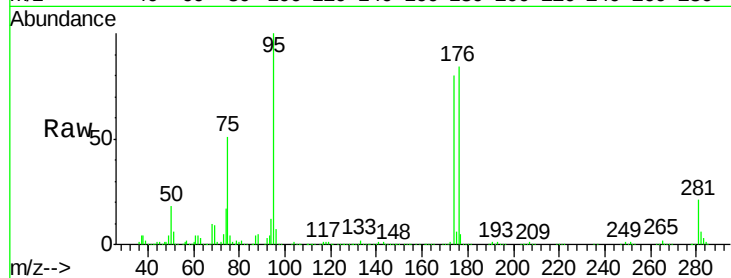
Tgt Ion: 75 Resp: 200996

Ion Ratio Lower Upper

75 100

53 0.0 70.9 106.3#

89 0.1 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

