

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030519\  
 Data File : VW008989.D  
 Acq On : 05 Mar 2019 11:43  
 Operator : SY/VA  
 Sample : VW0305SBL01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Mar 06 06:44:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 316480   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 495637   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 439397   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 201015   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 168827   | 56.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.76% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 150982   | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 50) Toluene-d8              | 10.32 | 98   | 588989   | 51.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.54% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 197461   | 43.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.80%  |          |

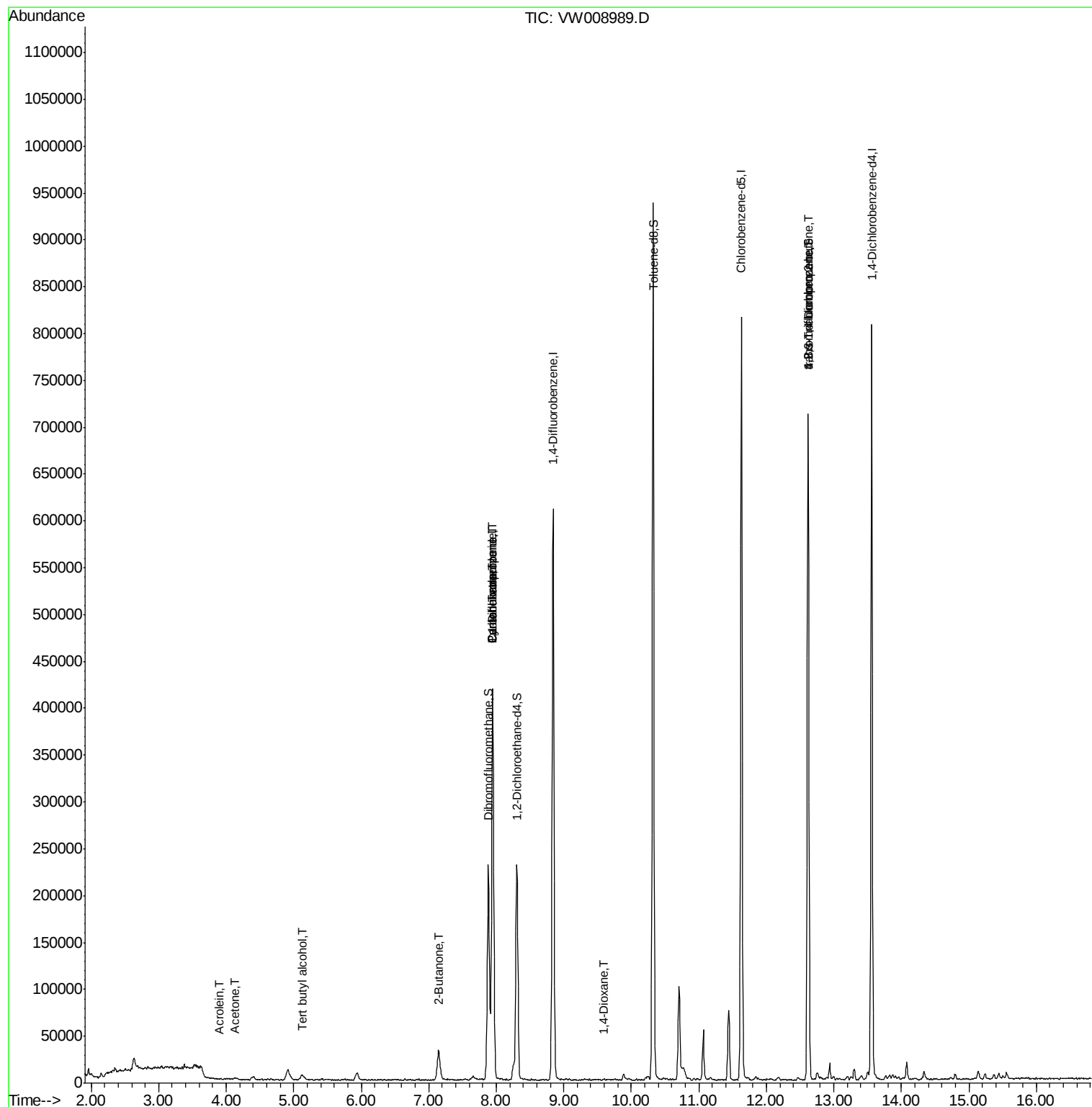
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.12  | 59   | 3940     | 14.910    | ug/l # | 76     |
| 13) Acrolein                   | 3.89  | 56   | 130      | 20.209    | ug/l # | 14     |
| 16) Acetone                    | 4.13  | 43   | 4261     | 6.193     | ug/l   | 99     |
| 20) Methylene Chloride         | 4.92  | 84   | 8058     | Below Cal | #      | 79     |
| 25) 2-Butanone                 | 7.15  | 43   | 3052     | 3.173     | ug/l # | 69     |
| 31) Cyclohexane                | 7.95  | 56   | 7205     | 1.288     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 25516    | 5.289     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 29988    | 5.894     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.59  | 88   | 41       | 1.414     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 106004   | 63.871    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 106004   | 155.276   | ug/l # | 6      |

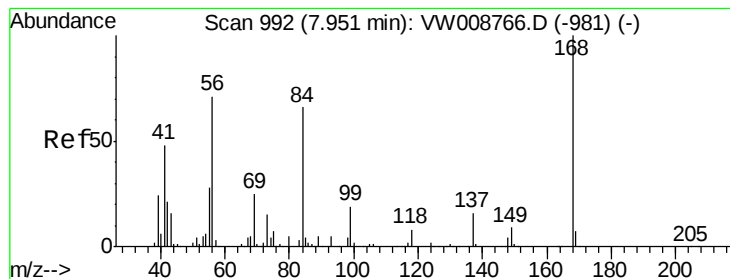
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VW0305SBL01  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Mar 06 06:44:47 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008989.D

Acq: 05 Mar 2019 11:43

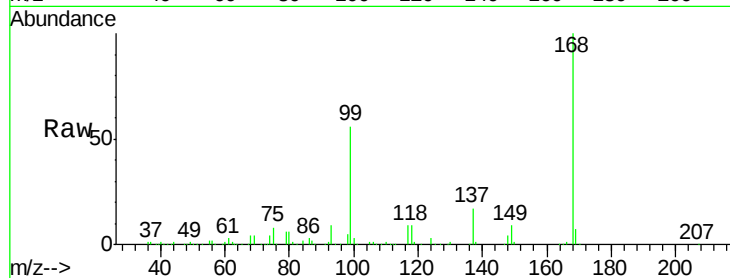
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 316480

Ion Ratio Lower Upper

168 100

99 56.1 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

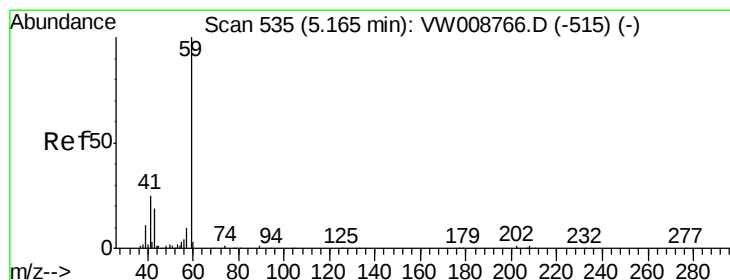
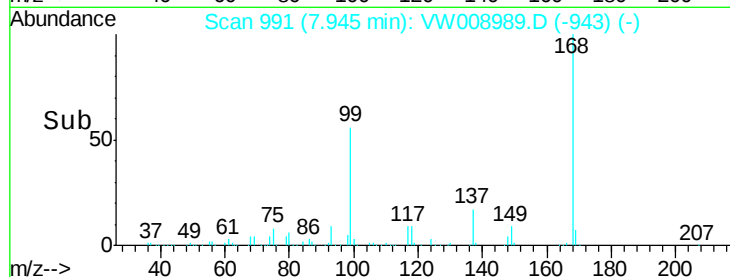
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 14.910 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.04 min

Lab File: VW008989.D

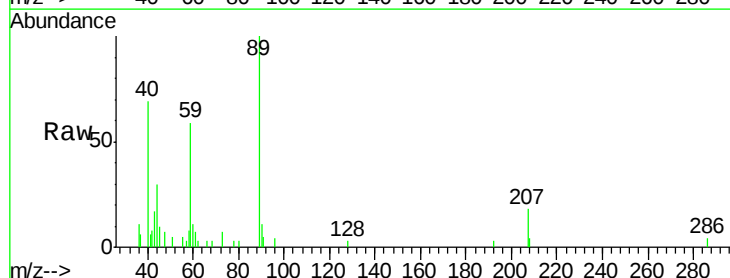
Acq: 05 Mar 2019 11:43

Tgt Ion: 59 Resp: 3940

Ion Ratio Lower Upper

59 100

57 2.4 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

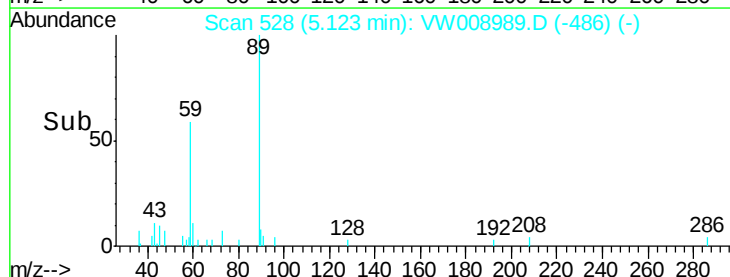
5.12

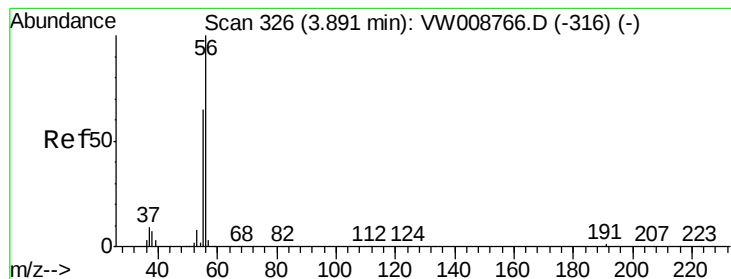
1000

500

0

Time-->





#13

Acrolein

Concen: 20.209 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW008989.D

Acq: 05 Mar 2019 11:43

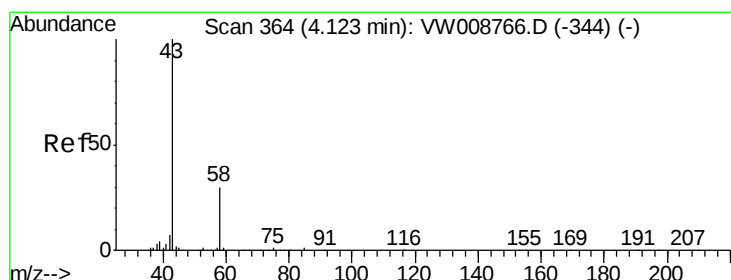
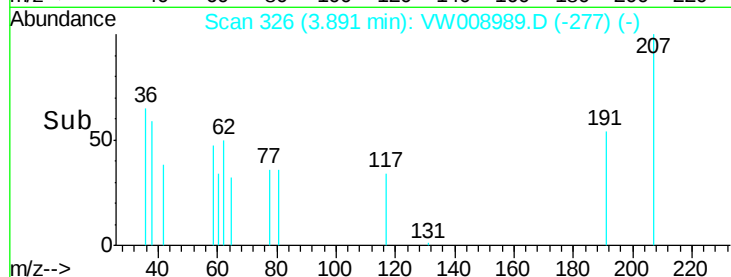
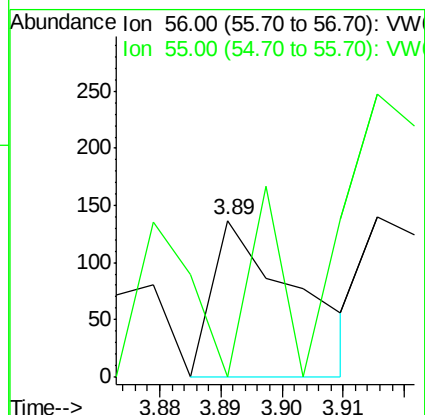
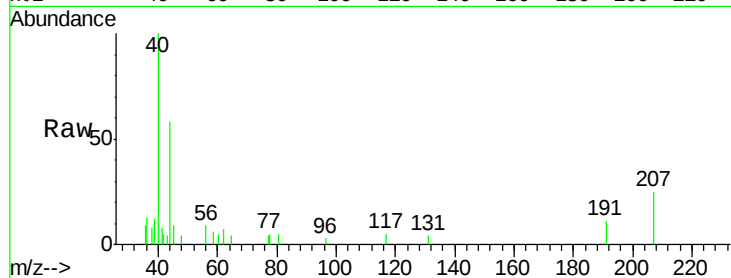
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 56 Resp: 130

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 6.193 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008989.D

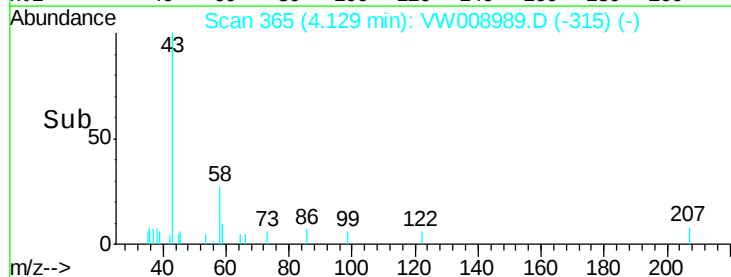
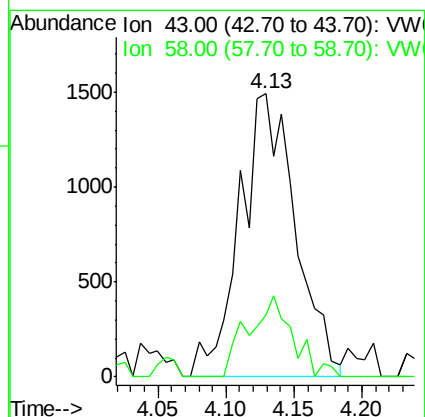
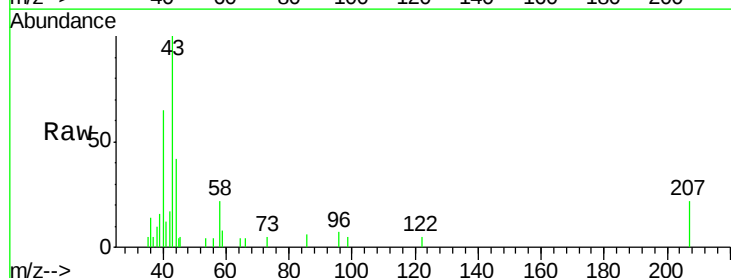
Acq: 05 Mar 2019 11:43

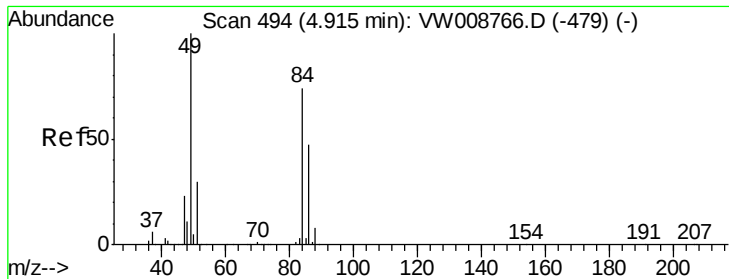
Tgt Ion: 43 Resp: 4261

Ion Ratio Lower Upper

43 100

58 30.0 23.8 35.6

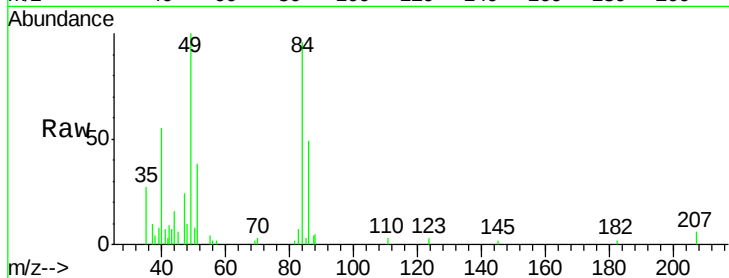




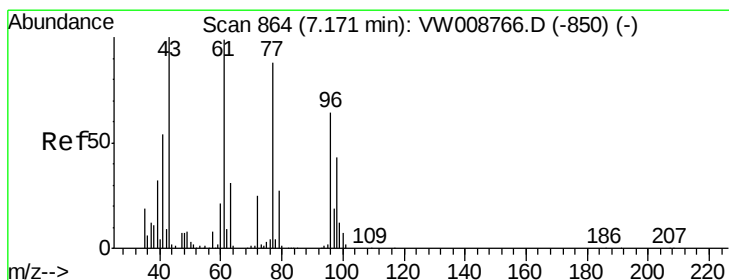
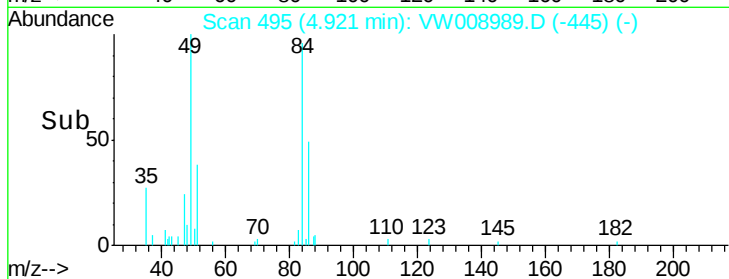
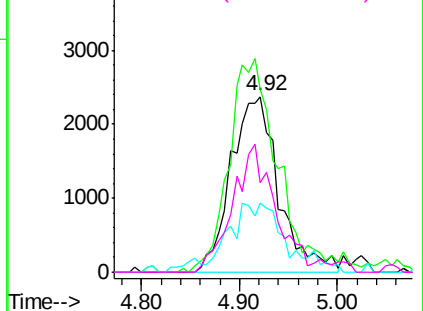
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 84 Resp: 8058  
Ion Ratio Lower Upper  
84 100  
49 103.9 108.2 162.2#  
51 35.0 32.7 49.1  
86 50.7 50.3 75.5

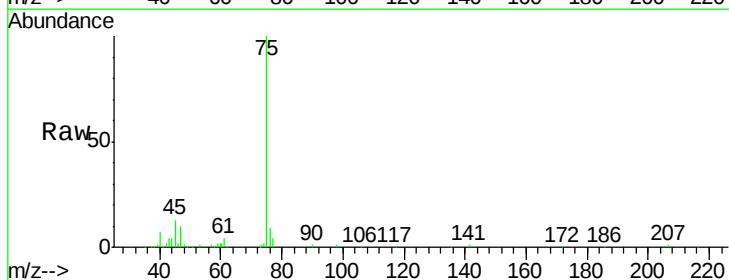


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

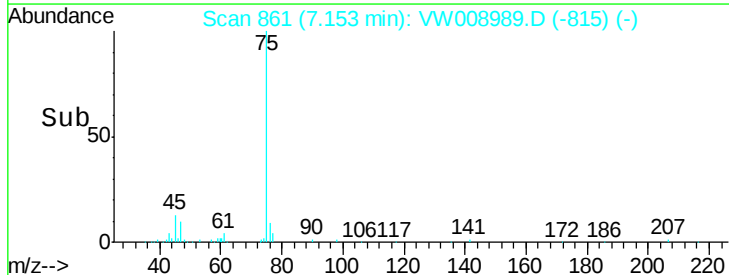
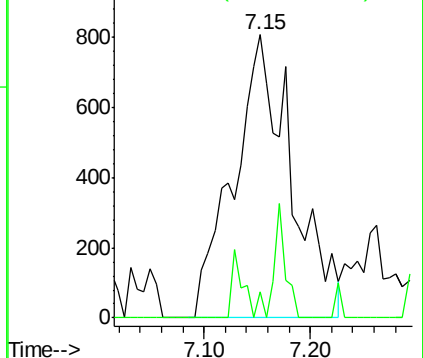


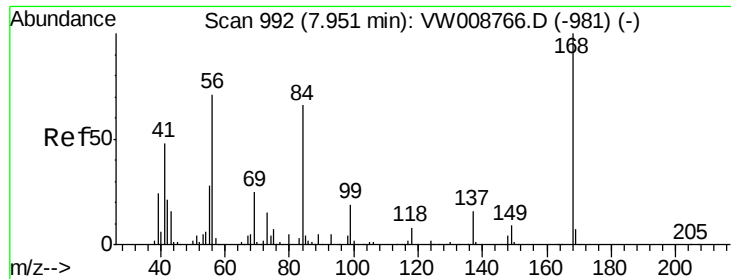
#25  
2-Butanone  
Concen: 3.173 ug/l  
RT: 7.15 min Scan# 861  
Delta R.T. -0.02 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Tgt Ion: 43 Resp: 3052  
Ion Ratio Lower Upper  
43 100  
72 9.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW

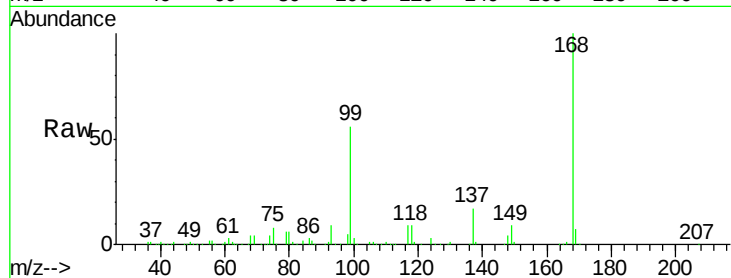




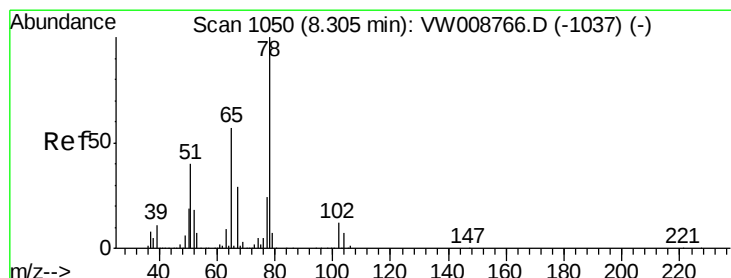
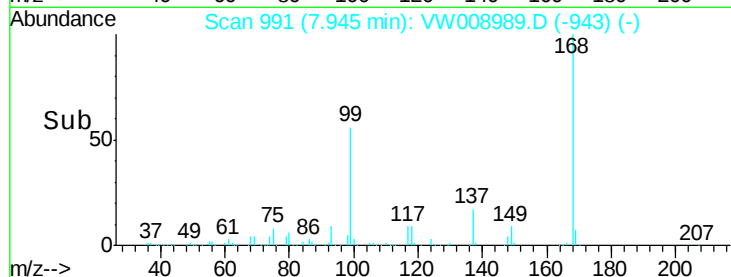
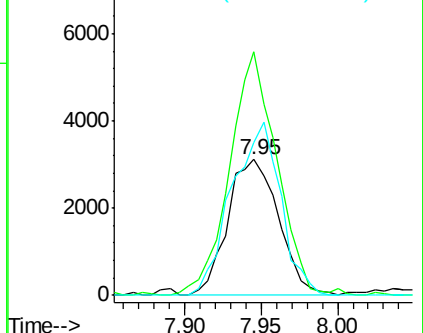
#31  
Cyclohexane  
Concen: 1.288 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 7205  
Ion Ratio Lower Upper  
56 100  
69 174.8 28.2 42.4#  
84 112.2 74.1 111.1#

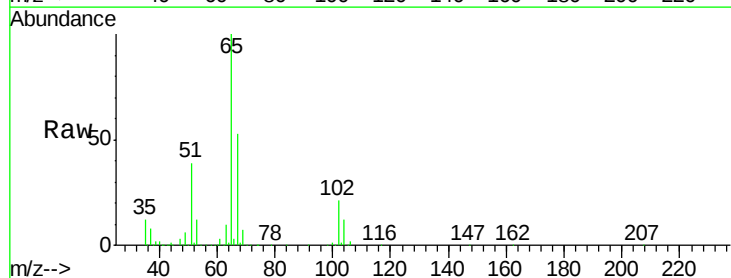


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

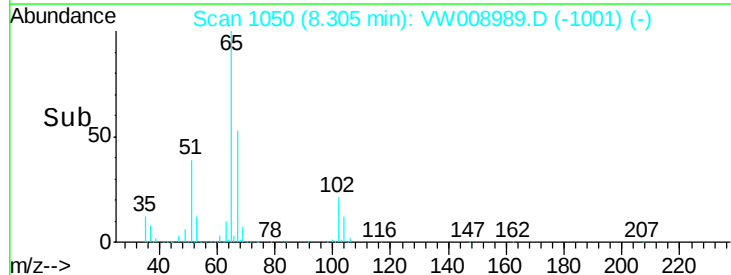
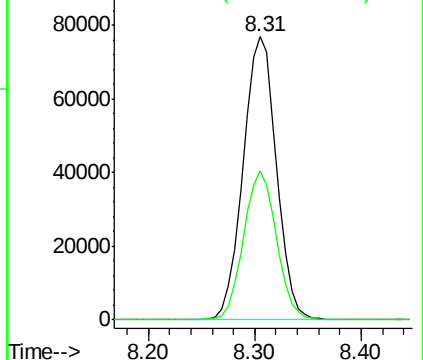


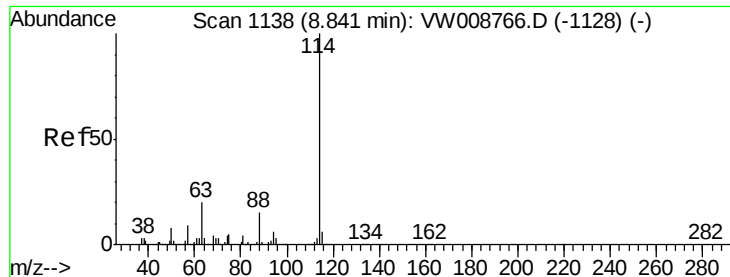
#33  
1,2-Dichloroethane-d4  
Concen: 56.877 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Tgt Ion: 65 Resp: 168827  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

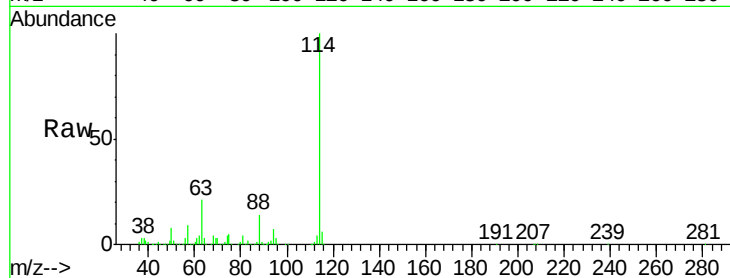




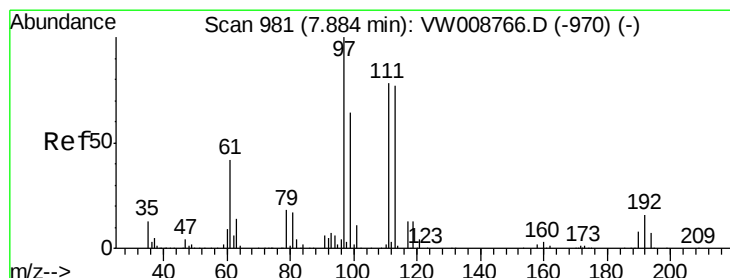
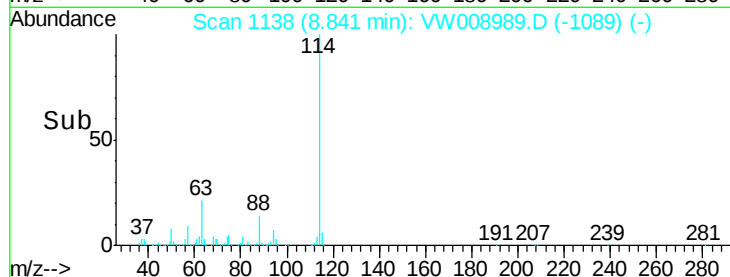
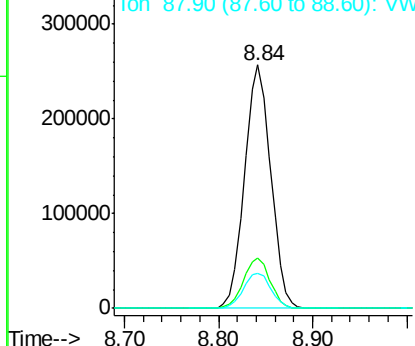
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.8  | 0.0   | 40.8  |
| 88      | 14.4  | 0.0   | 30.4  |

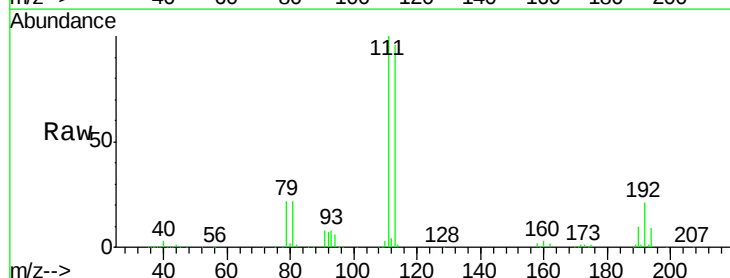


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

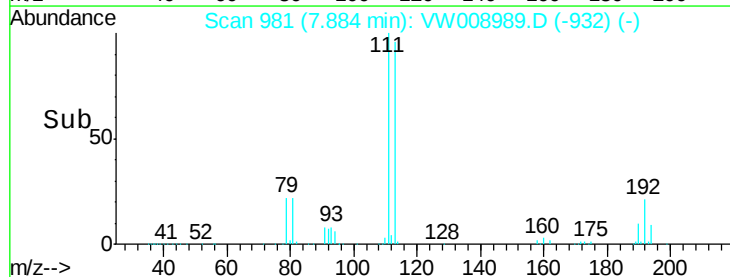
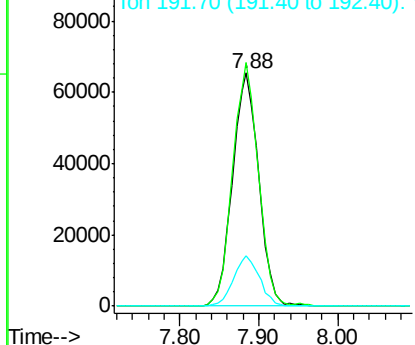


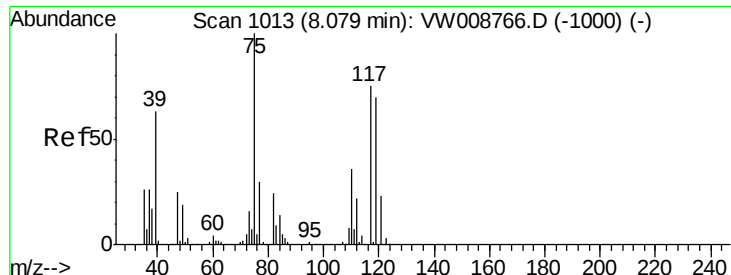
#35  
Dibromofluoromethane  
Concen: 50.736 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 81.9  | 122.9 |
| 192     | 21.3  | 17.1  | 25.7  |



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

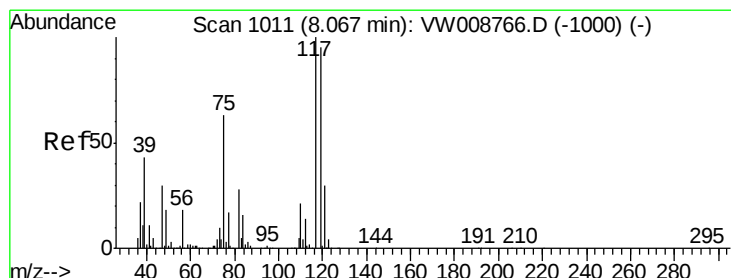
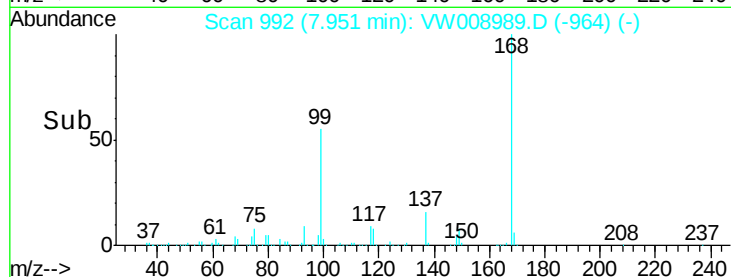
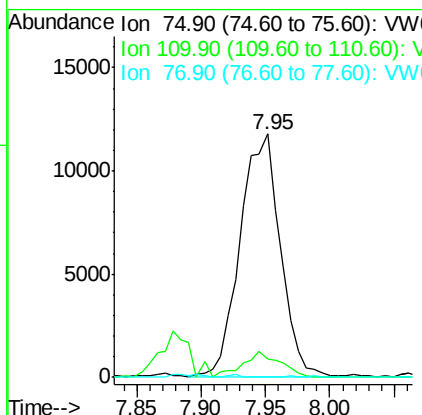
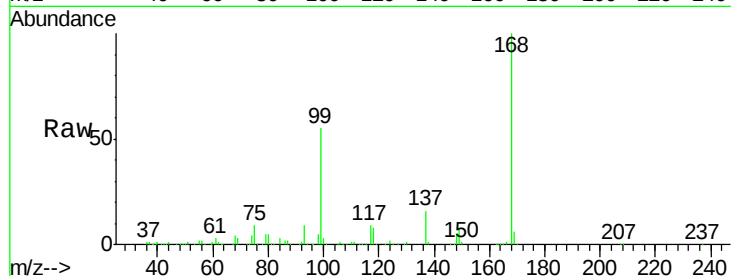




#36  
 1,1-Dichloropropene  
 Concen: 5.289 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW008989.D  
 Acq: 05 Mar 2019 11:43

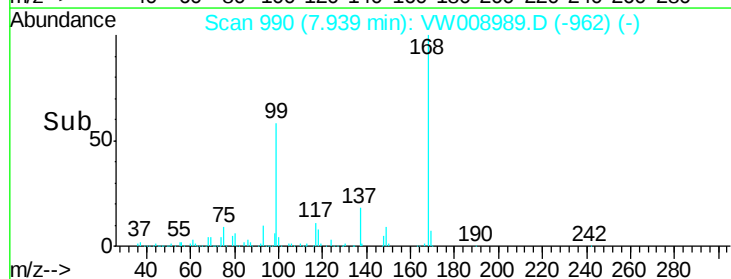
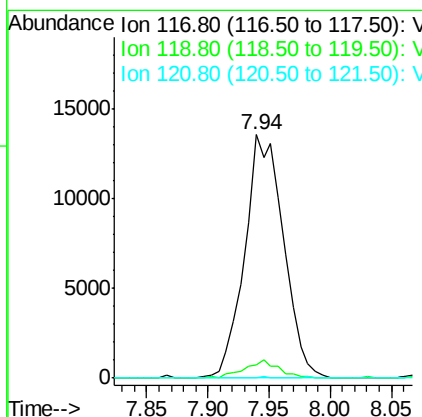
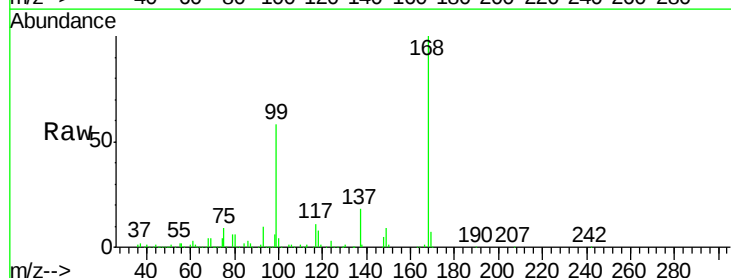
Instrument :  
 MSVOA\_W  
 ClientSampleId :

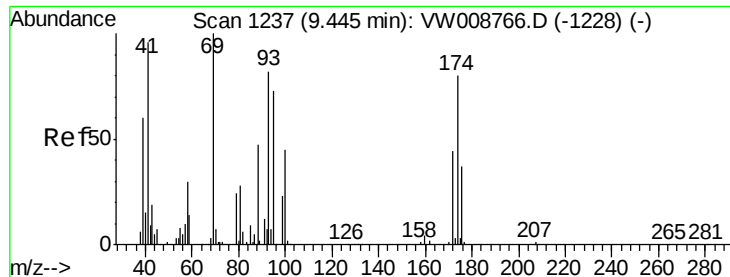
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 17.5  | 52.6# |
| 77      | 0.0   | 24.5  | 36.7# |



#38  
 Carbon Tetrachloride  
 Concen: 5.894 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.13 min  
 Lab File: VW008989.D  
 Acq: 05 Mar 2019 11:43

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.2   | 76.1  | 114.1# |
| 121     | 0.0   | 24.0  | 36.0#  |

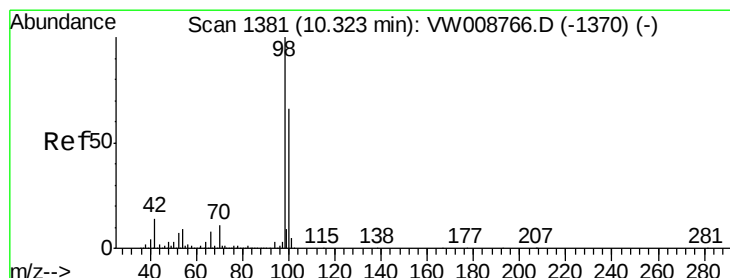
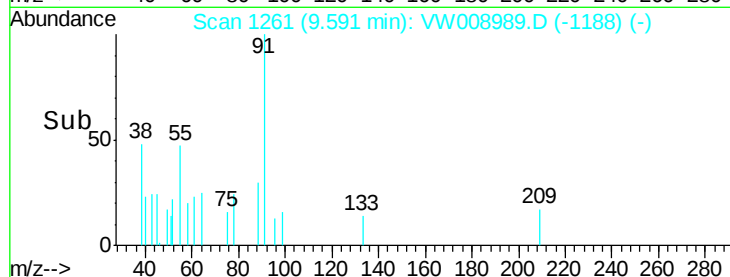
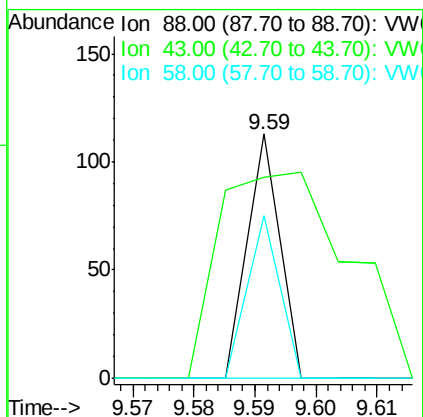
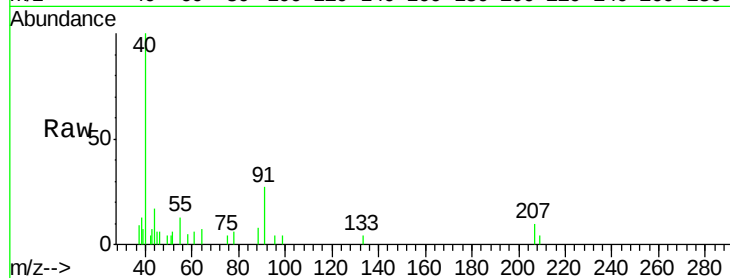




#49  
1,4-Dioxane  
Concen: 1.414 ug/l  
RT: 9.59 min Scan# 1261  
Delta R.T. 0.15 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

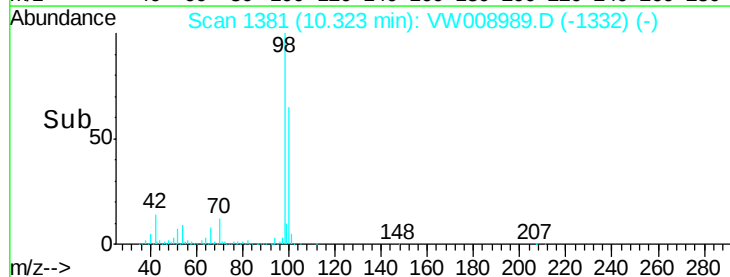
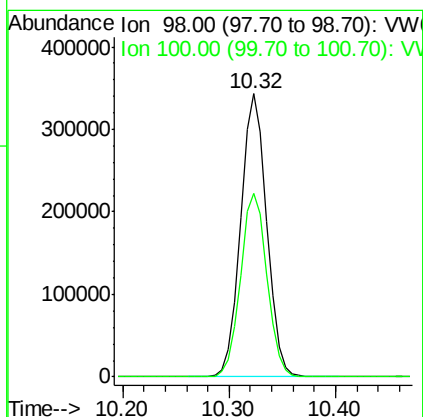
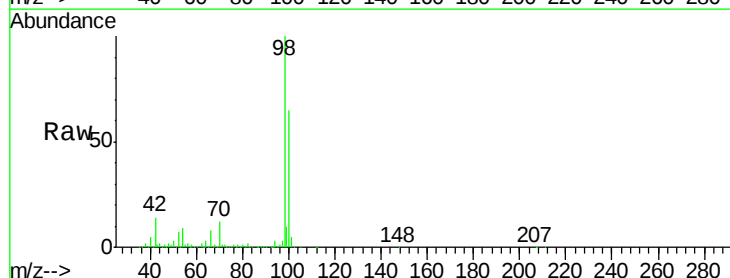
Instrument :  
MSVOA\_W  
ClientSampled :

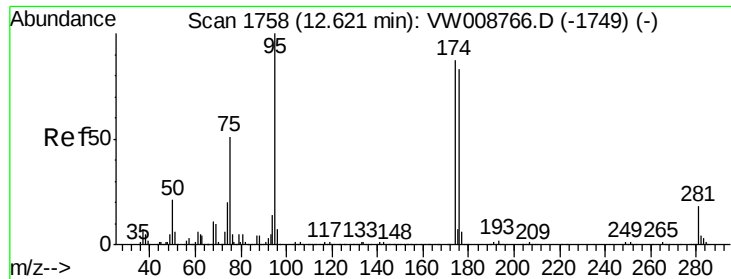
Tot Ion: 88 Resp: 41  
Ion Ratio Lower Upper  
88 100  
43 341.5 29.0 43.4#  
58 65.9 52.0 78.0



#50  
Toluene-d8  
Concen: 51.271 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Tgt Ion: 98 Resp: 588989  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.4 78.6

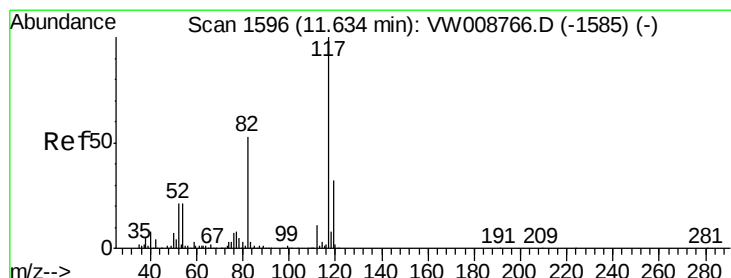
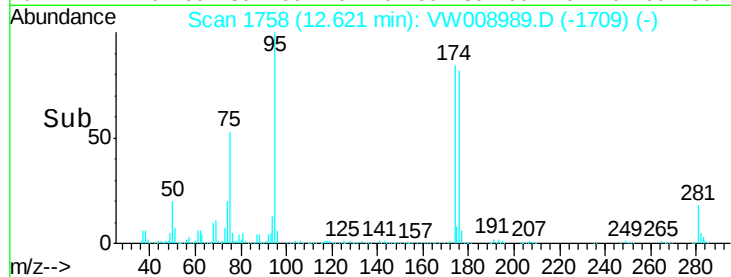
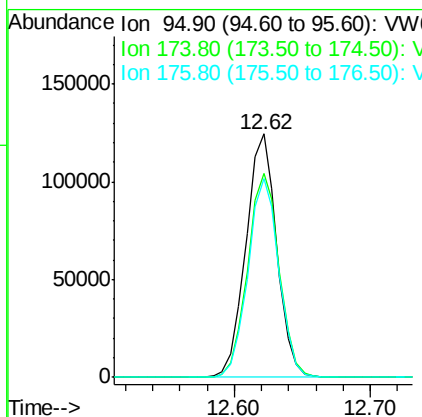
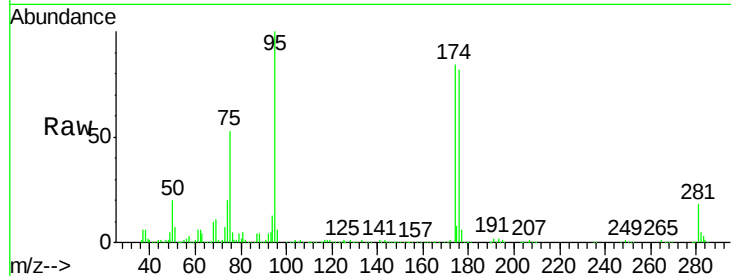




#62  
4-Bromofluorobenzene  
Concen: 43.900 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

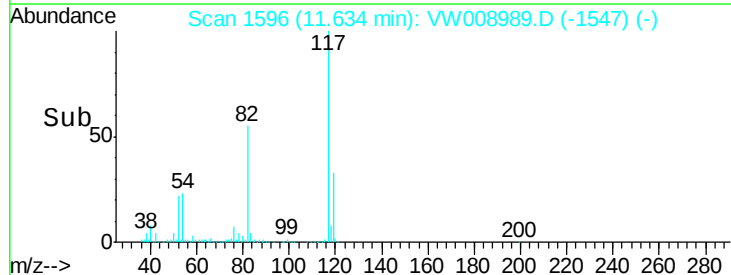
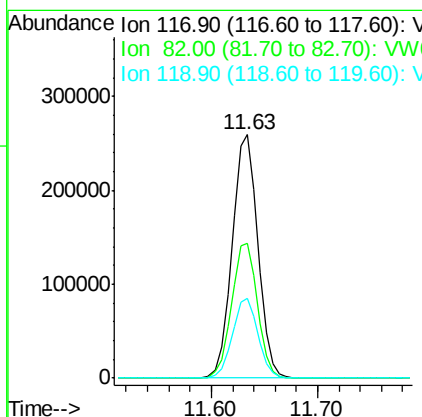
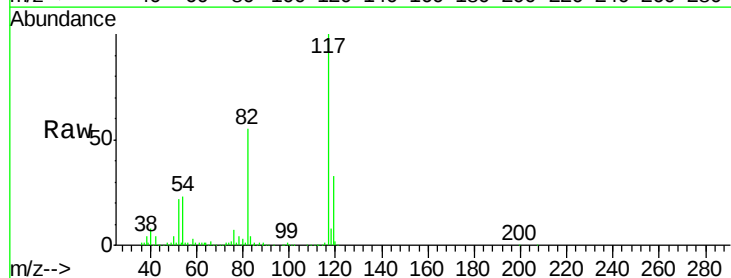
Instrument :  
MSVOA\_W  
ClientSampleId :

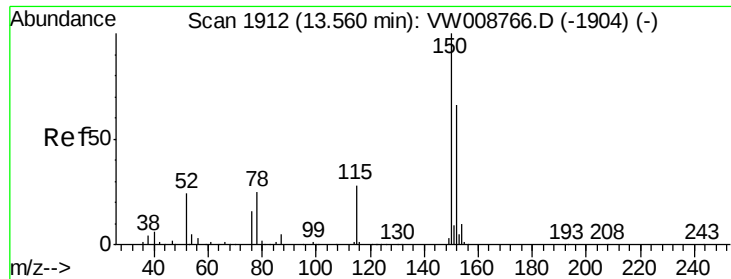
Tot Ion: 95 Resp: 197461  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 169.2  
176 82.1 0.0 163.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008989.D  
Acq: 05 Mar 2019 11:43

Tgt Ion: 117 Resp: 439397  
Ion Ratio Lower Upper  
117 100  
82 55.3 42.2 63.4  
119 32.8 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008989.D

Acq: 05 Mar 2019 11:43

Instrument :

MSVOA\_W

ClientSampleId :

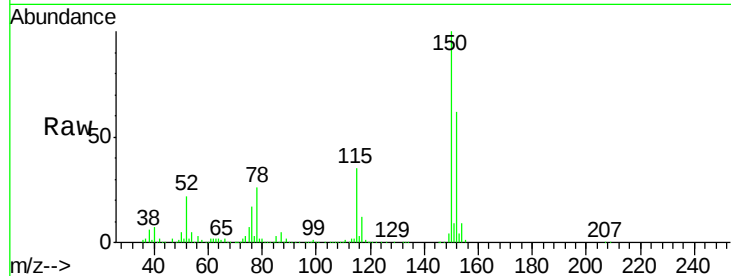
Tot Ion:152 Resp: 201015

Ion Ratio Lower Upper

152 100

115 56.0 28.6 85.8

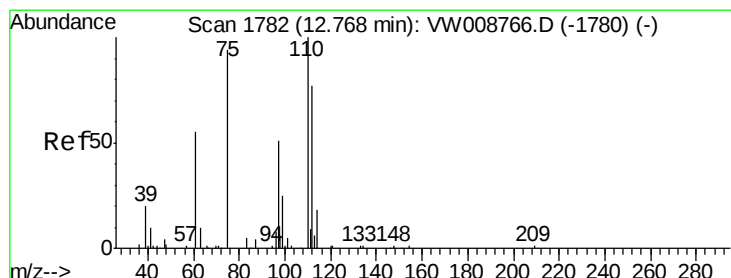
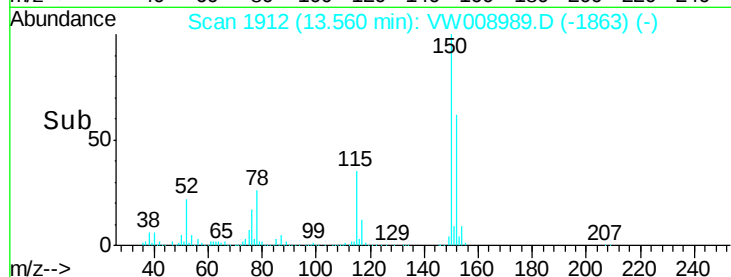
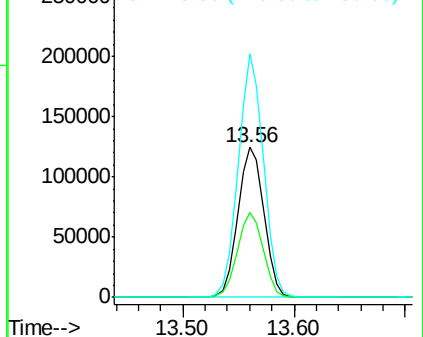
150 156.6 0.0 348.0



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: 63.871 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008989.D

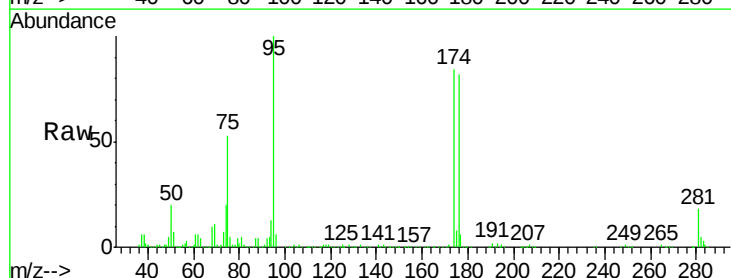
Acq: 05 Mar 2019 11:43

Tgt Ion: 75 Resp: 106004

Ion Ratio Lower Upper

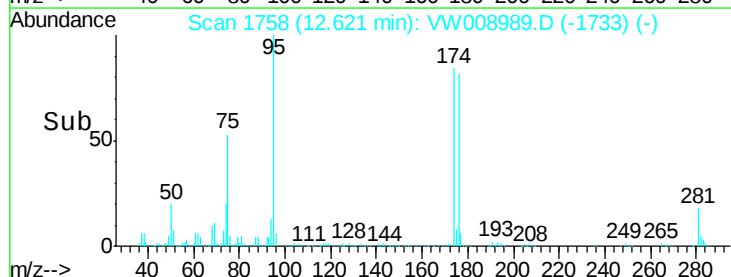
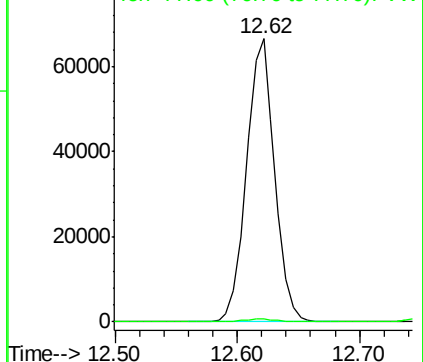
75 100

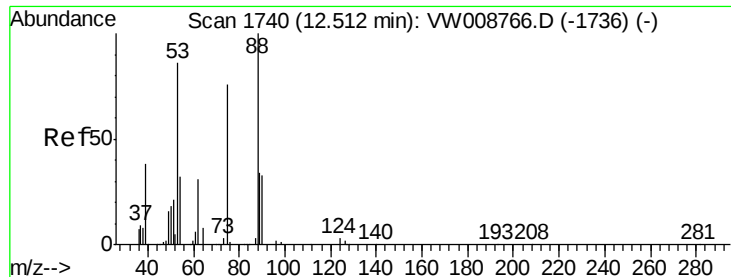
77 1.2 0.0 0.0#



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: 155.276 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008989.D

Acq: 05 Mar 2019 11:43

Instrument :

MSVOA\_W

ClientSampleId :

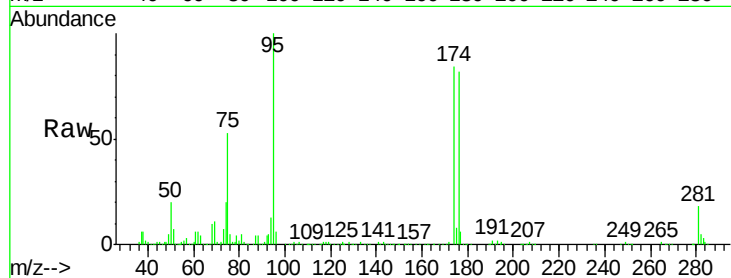
Tot Ion: 75 Resp: 106004

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.2 39.5 59.3#



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

