

Data File : VW009026.D  
Acq On : 06 Mar 2019 20:11  
Operator : SY/VA  
Sample : K1760-03  
Misc : 5.29G/5ML/MSVOA\_W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
Z2-8

Quant Time: Mar 07 07:28:59 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030619S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:22:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 68839    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 96894    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 86845    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 31217    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 37641    | 54.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.00% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 29414    | 50.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.86% |      |
| 50) Toluene-d8            | 10.32  | 98  | 116407   | 48.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.12%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 36033    | 38.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 77.84%  |      |

Target Compounds

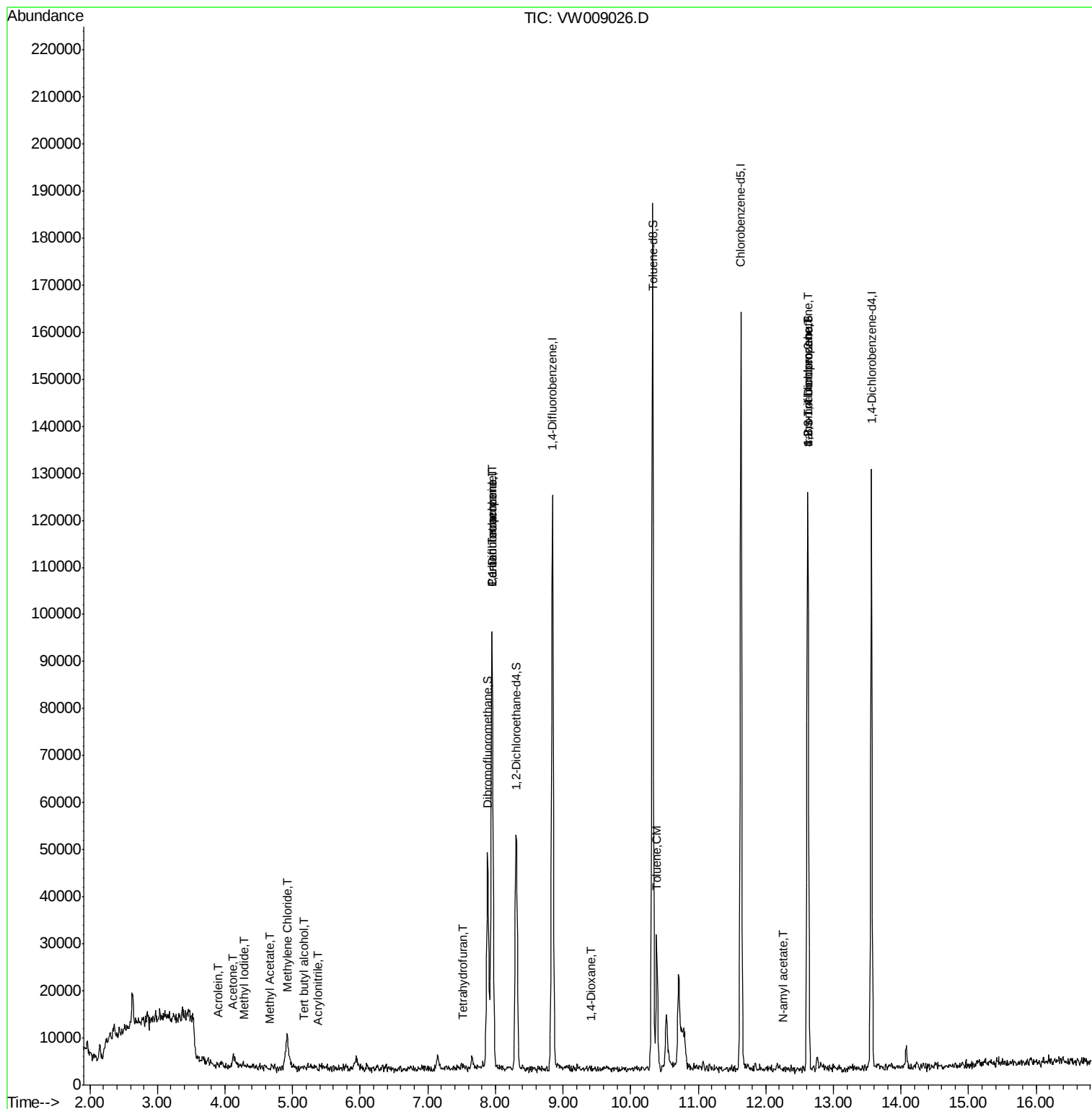
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 10) Methyl Iodide              | 4.28  | 142 | 30    | 5.670   | ug/l # | 39     |
| 11) Tert butyl alcohol         | 5.17  | 59  | 83    | 1.677   | ug/l # | 70     |
| 13) Acrolein                   | 3.90  | 56  | 129   | 2.278   | ug/l # | 14     |
| 15) Acrylonitrile              | 5.38  | 53  | 194   | 1.306   | ug/l # | 27     |
| 16) Acetone                    | 4.12  | 43  | 4451  | 31.379  | ug/l # | 79     |
| 18) Methyl Acetate             | 4.67  | 43  | 344   | 1.064   | ug/l # | 65     |
| 20) Methylene Chloride         | 4.93  | 84  | 4770  | 4.690   | ug/l # | 82     |
| 29) Tetrahydrofuran            | 7.52  | 42  | 366   | 2.887   | ug/l # | 46     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 5583  | 5.795   | ug/l # | 55     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 6722  | 6.742   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.43  | 88  | 50    | 10.291  | ug/l # | 15     |
| 52) Toluene                    | 10.38 | 92  | 11278 | 6.429   | ug/l   | 100    |
| 74) N-amyl acetate             | 12.26 | 43  | 134   | 4.433   | ug/l # | 45     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 17950 | 72.551  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 17950 | 146.942 | ug/l # | 6      |

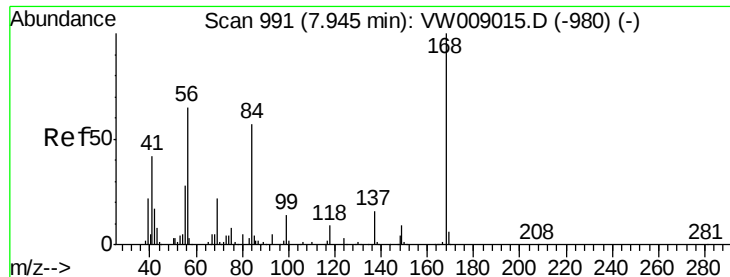
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
Z2-8

Quant Time: Mar 07 07:28:59 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030619S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:22:06 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

Instrument :

MSVOA\_W

ClientSampleId :

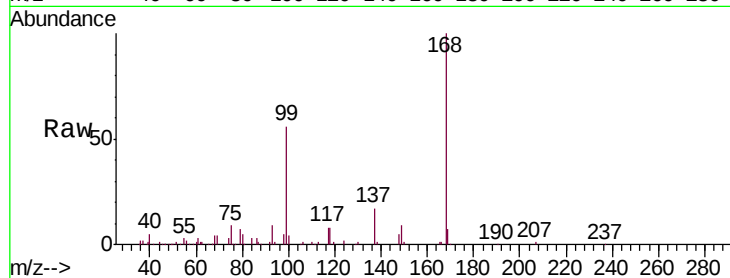
Z2-8

Tgt Ion:168 Resp: 68839

Ion Ratio Lower Upper

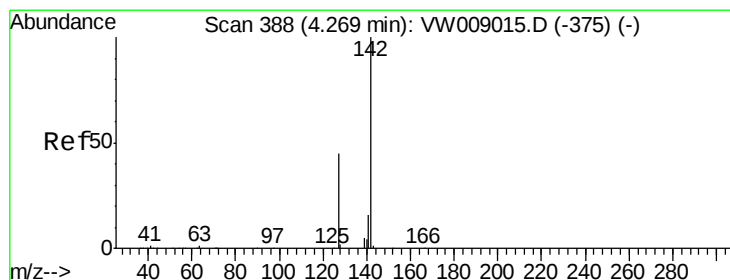
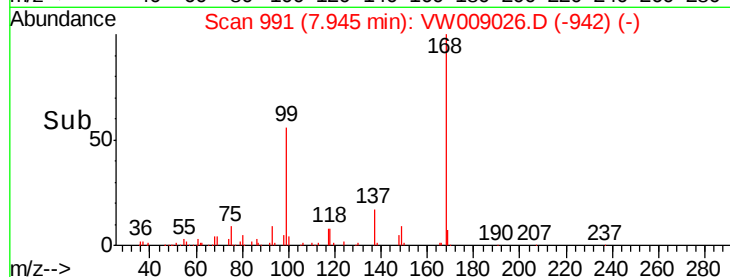
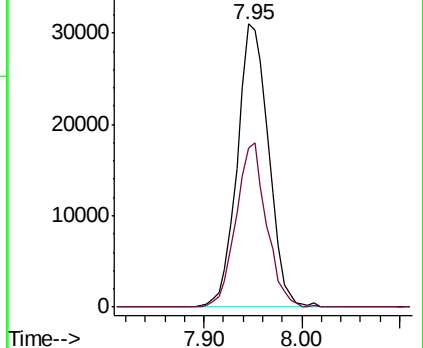
168 100

99 56.4 43.5 65.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#10

Methyl Iodide

Concen: 5.670 ug/l

RT: 4.28 min Scan# 390

Delta R.T. 0.01 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

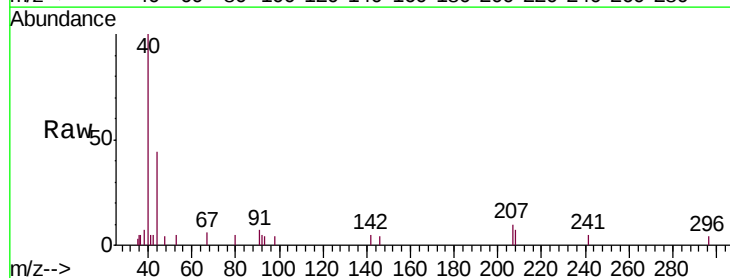
Tgt Ion:142 Resp: 30

Ion Ratio Lower Upper

142 100

127 0.0 36.2 54.2#

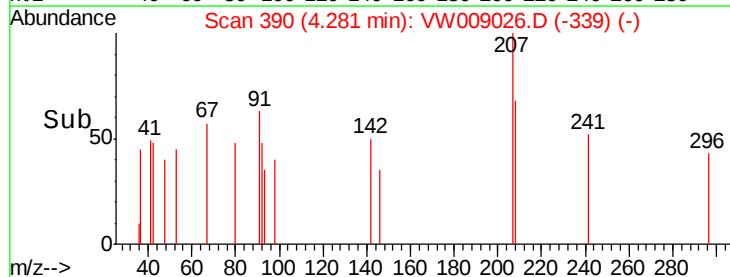
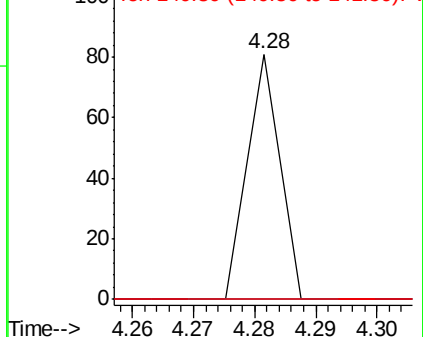
141 0.0 12.3 18.5#

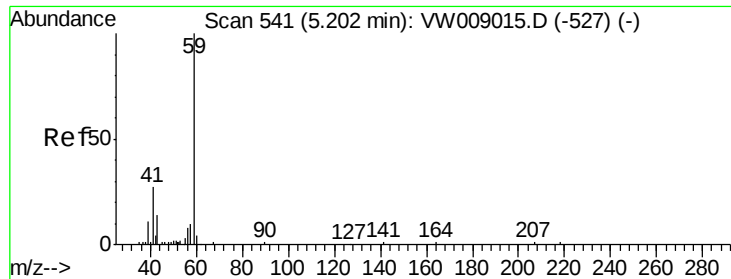


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

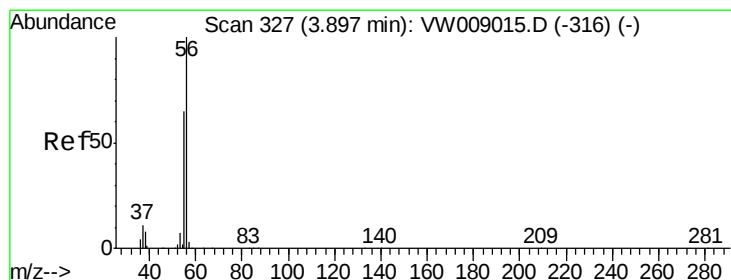
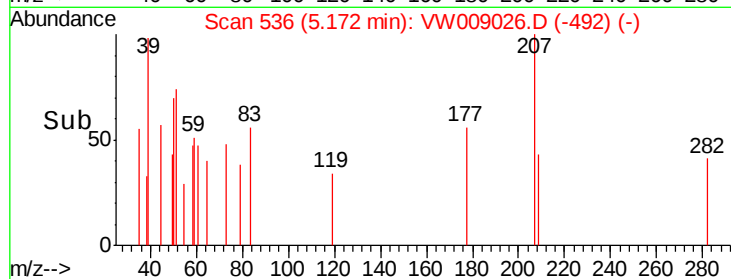
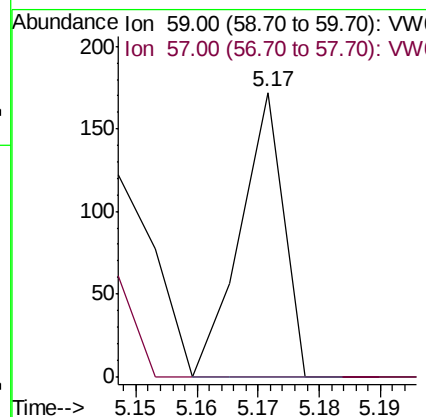
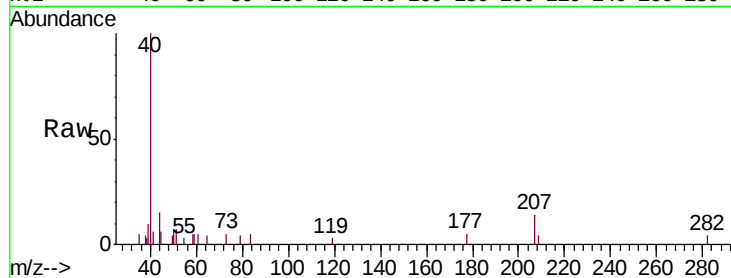




#11  
Tert butyl alcohol  
Concen: 1.677 ug/l  
RT: 5.17 min Scan# 536  
Delta R.T. -0.03 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

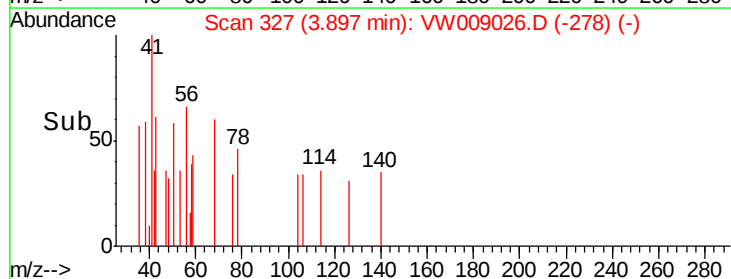
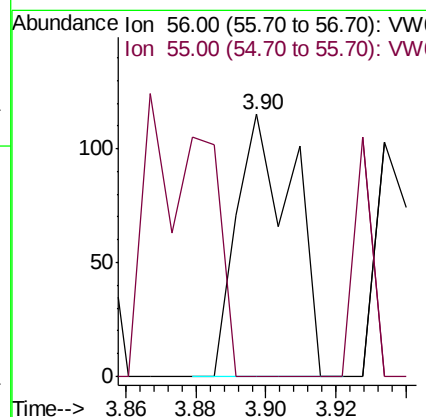
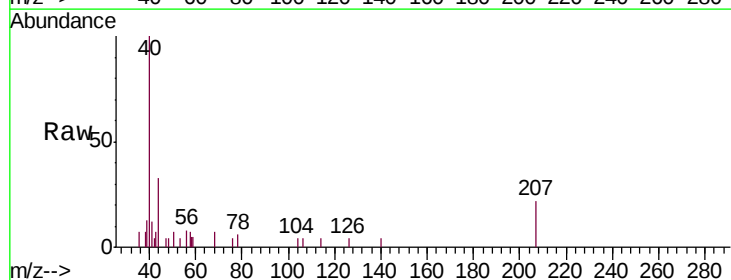
Instrument :  
MSVOA\_W  
ClientSampled :  
Z2-8

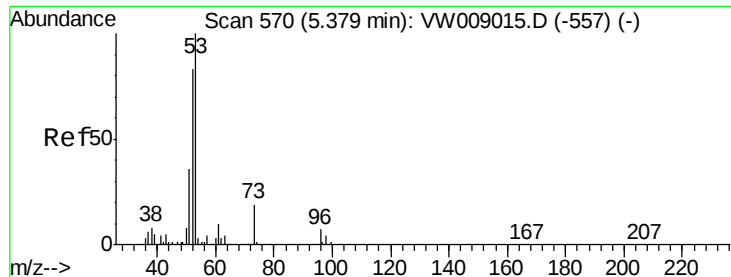
Tgt Ion: 59 Resp: 83  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.6#



#13  
Acrolein  
Concen: 2.278 ug/l  
RT: 3.90 min Scan# 327  
Delta R.T. 0.00 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

Tgt Ion: 56 Resp: 129  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#





#15

Acrylonitrile

Concen: 1.306 ug/l

RT: 5.38 min Scan# 571

Delta R.T. 0.01 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

Instrument :

MSVOA\_W

ClientSampleId :

Z2-8

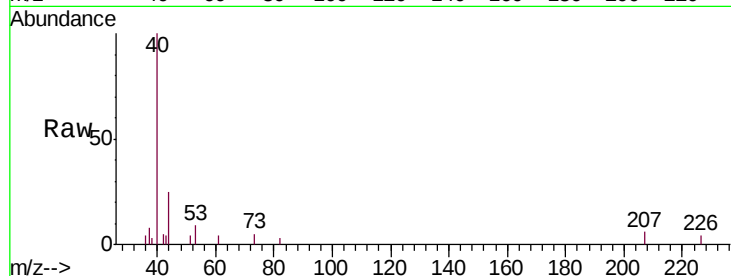
Tgt Ion: 53 Resp: 194

Ion Ratio Lower Upper

53 100

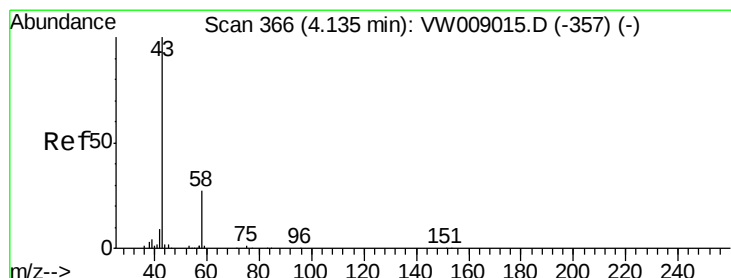
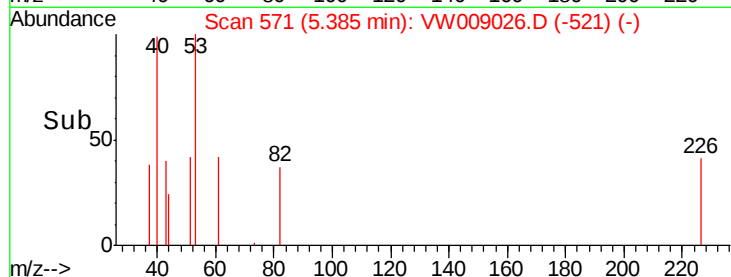
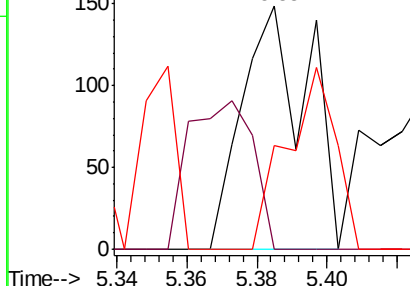
52 0.0 66.6 100.0#

51 56.2 30.6 45.8#



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

5.38



#16

Acetone

Concen: 31.379 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW009026.D

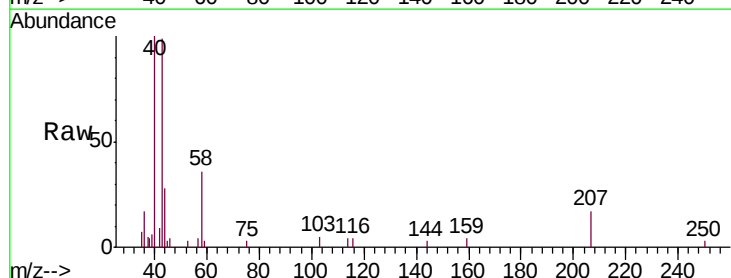
Acq: 06 Mar 2019 20:11

Tgt Ion: 43 Resp: 4451

Ion Ratio Lower Upper

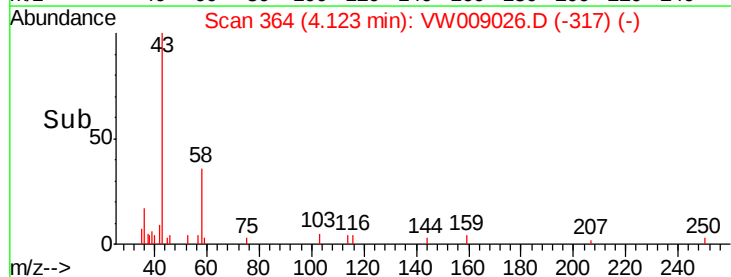
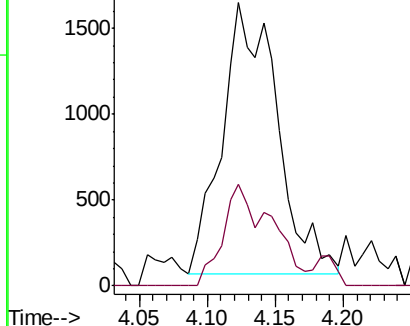
43 100

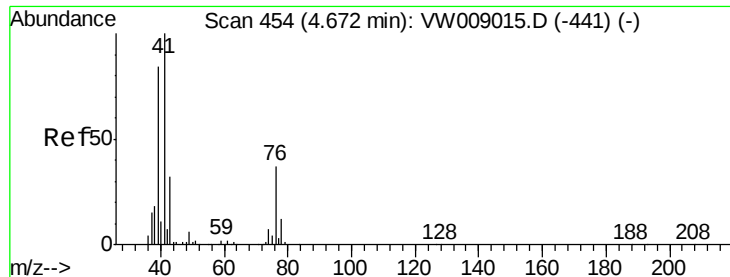
58 37.7 21.6 32.4#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

4.12

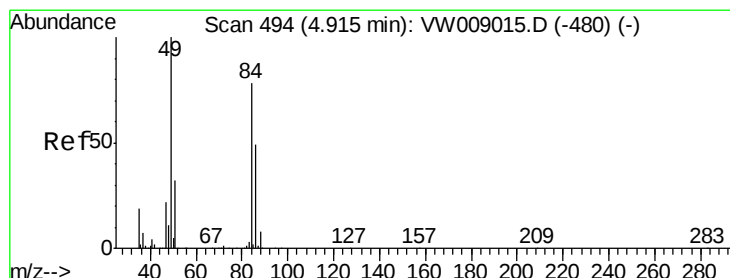
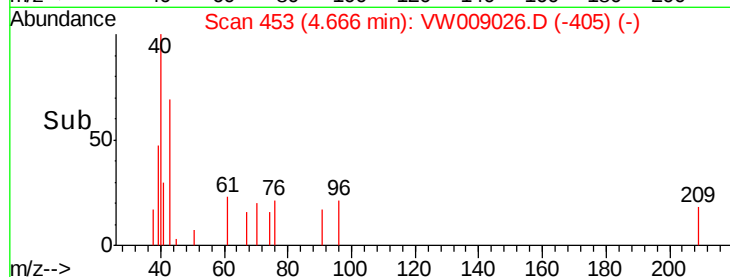
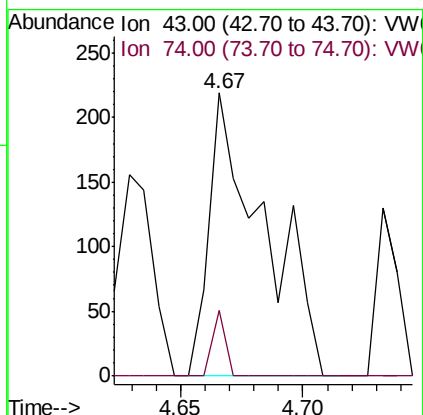
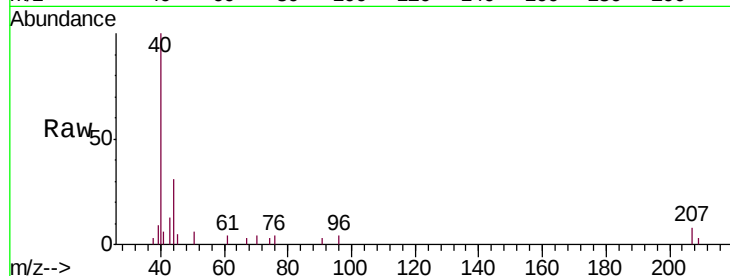




#18  
Methyl Acetate  
Concen: 1.064 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

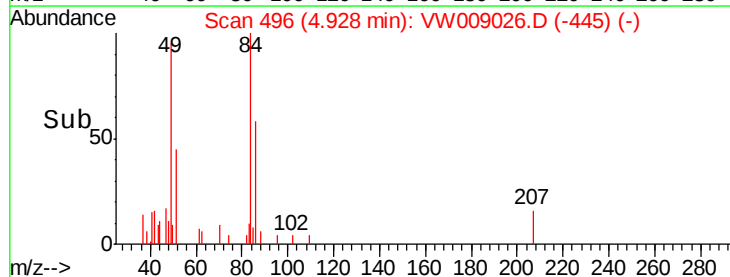
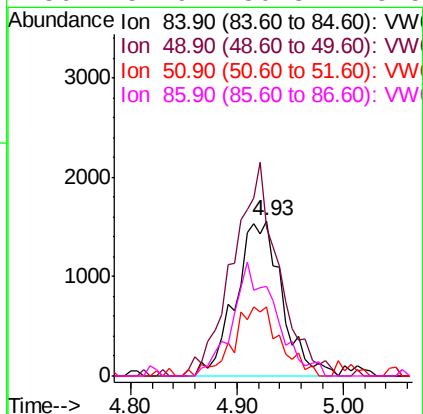
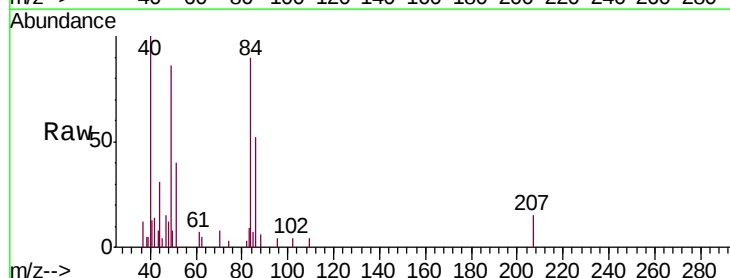
Instrument :  
MSVOA\_W  
ClientSampled :  
Z2-8

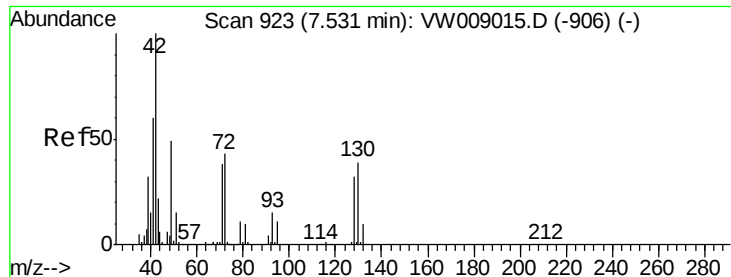
Tgt Ion: 43 Resp: 344  
Ion Ratio Lower Upper  
43 100  
74 5.5 17.7 26.5#



#20  
Methylene Chloride  
Concen: 4.690 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

Tgt Ion: 84 Resp: 4770  
Ion Ratio Lower Upper  
84 100  
49 95.3 102.8 154.2#  
51 40.5 32.4 48.6  
86 57.9 50.3 75.5





#29

Tetrahydrofuran

Concen: 2.887 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

Instrument :

MSVOA\_W

ClientSampled :

Z2-8

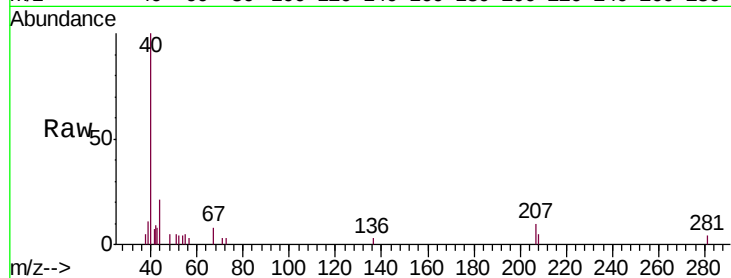
Tgt Ion: 42 Resp: 366

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

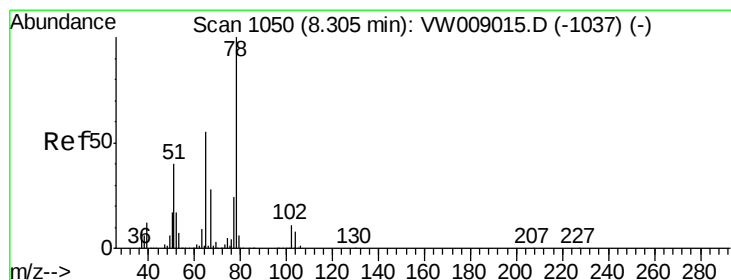
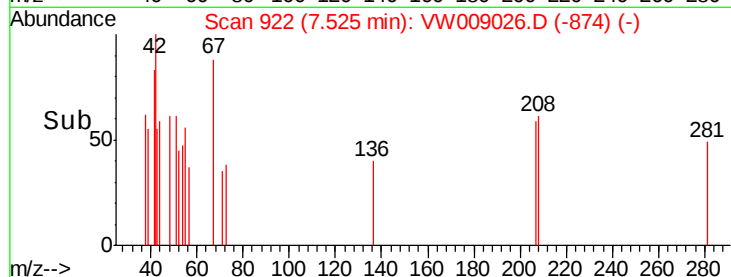
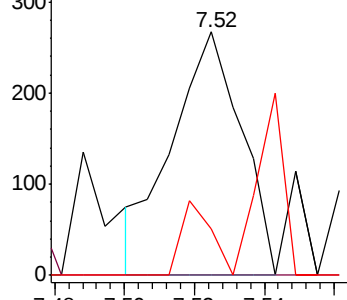
71 13.4 31.6 47.4#



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



#33

1,2-Dichloroethane-d4

Concen: 54.503 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009026.D

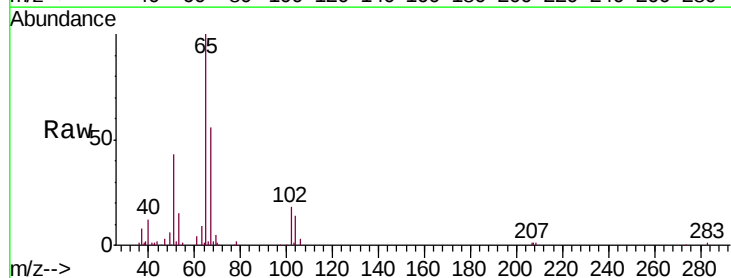
Acq: 06 Mar 2019 20:11

Tgt Ion: 65 Resp: 37641

Ion Ratio Lower Upper

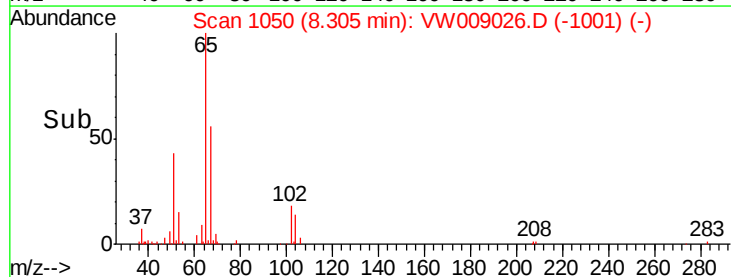
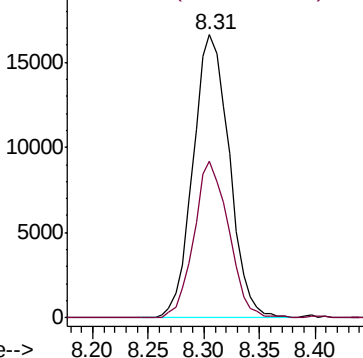
65 100

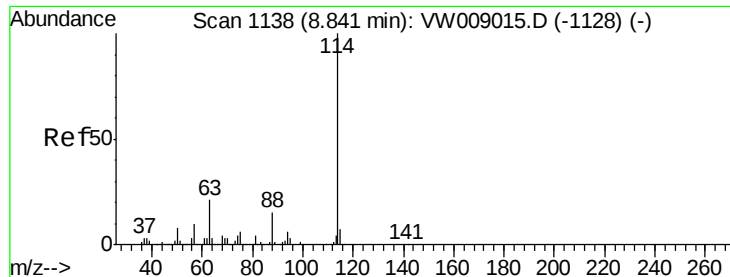
67 53.0 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

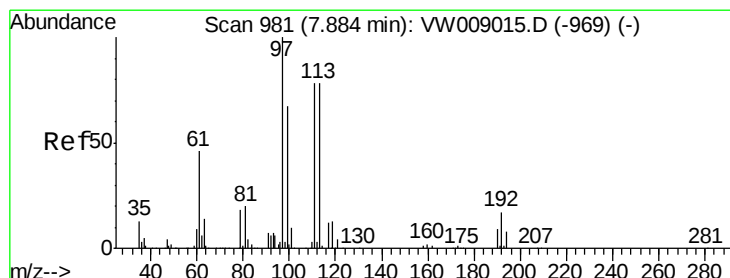
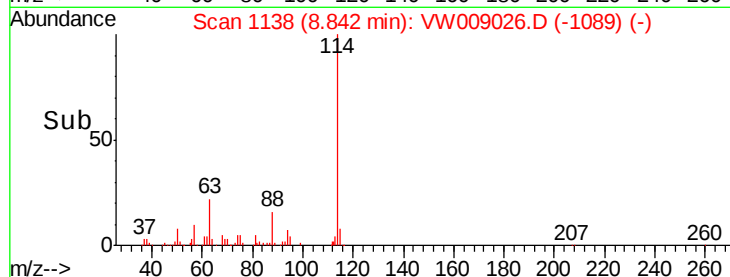
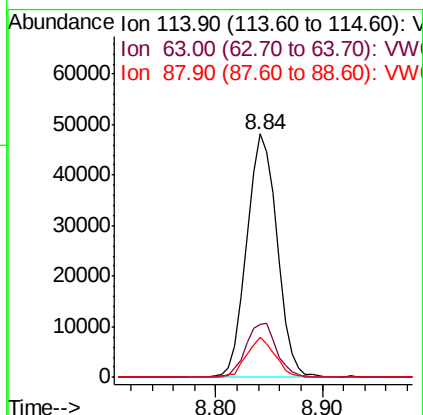
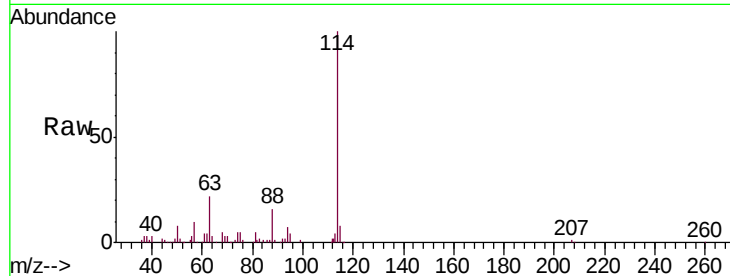




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW009026.D  
 Acq: 06 Mar 2019 20:11

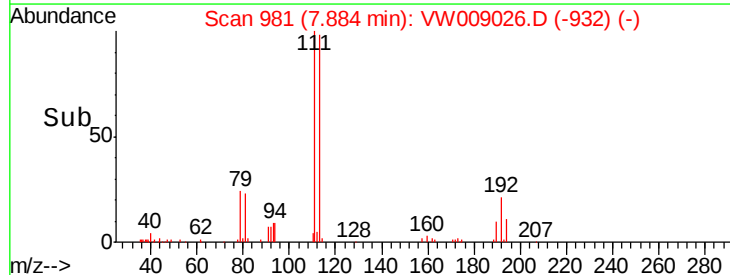
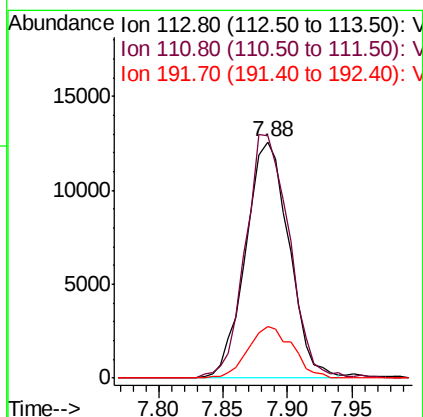
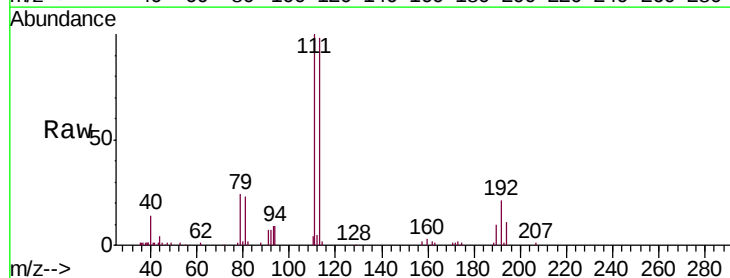
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 Z2-8

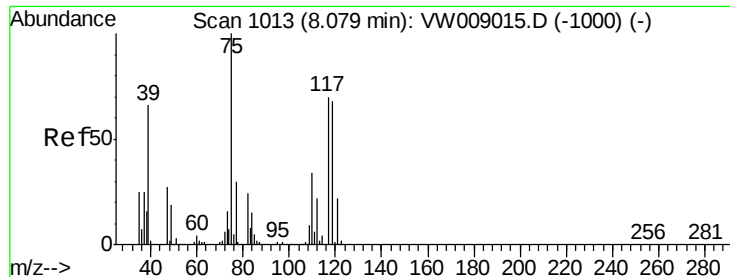
Tgt Ion:114 Resp: 96894  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 42.4  
 88 16.3 0.0 30.8



#35  
 Dibromofluoromethane  
 Concen: 50.428 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW009026.D  
 Acq: 06 Mar 2019 20:11

Tgt Ion:113 Resp: 29414  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 80.5 120.7  
 192 22.2 16.7 25.1

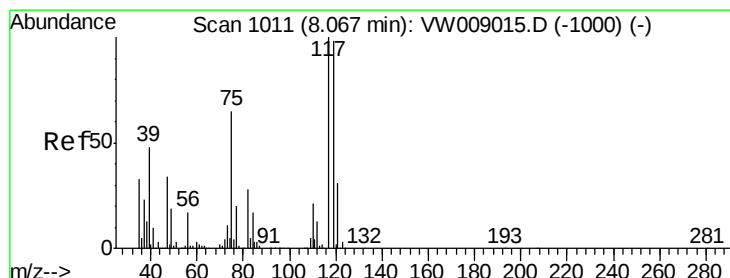
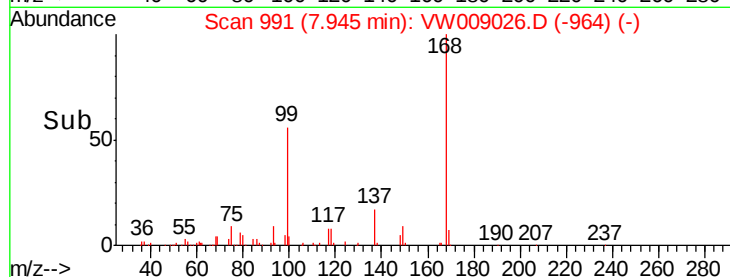
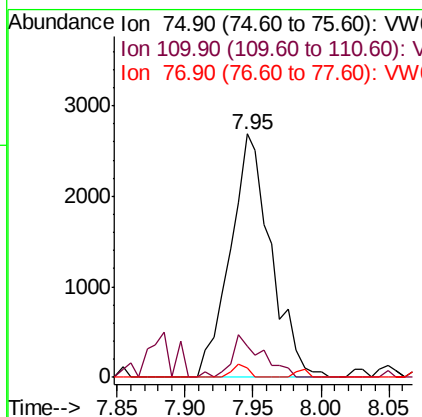
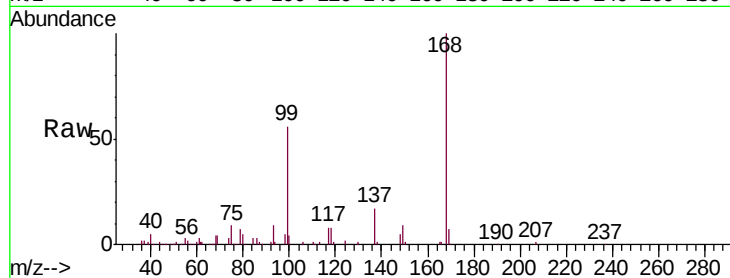




#36  
 1,1-Dichloropropene  
 Concen: 5.795 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW009026.D  
 Acq: 06 Mar 2019 20:11

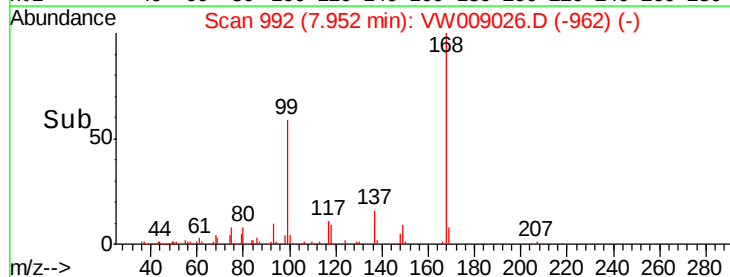
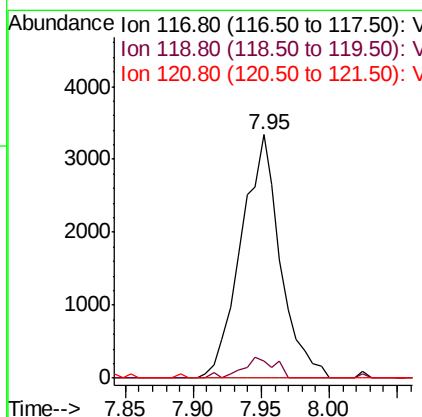
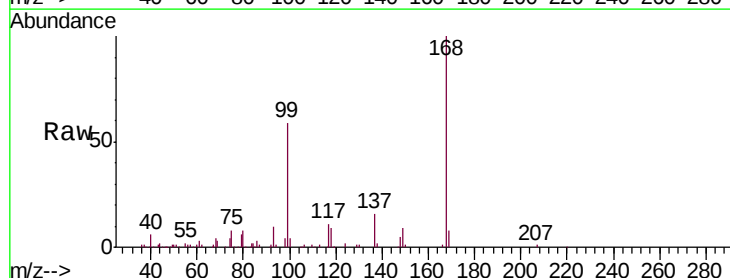
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 Z2-8

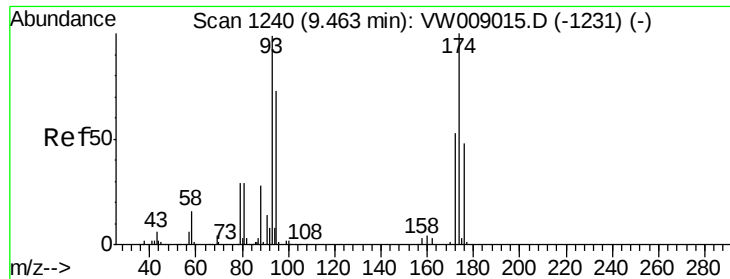
Tgt Ion: 75 Resp: 5583  
 Ion Ratio Lower Upper  
 75 100  
 110 13.1 17.3 51.9#  
 77 2.1 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.742 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW009026.D  
 Acq: 06 Mar 2019 20:11

Tgt Ion: 117 Resp: 6722  
 Ion Ratio Lower Upper  
 117 100  
 119 6.8 78.4 117.6#  
 121 0.0 24.7 37.1#





#49

1,4-Dioxane

Concen: 10.291 ug/l

RT: 9.43 min Scan# 1234

Delta R.T. -0.04 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

Instrument :

MSVOA\_W

ClientSampled :

Z2-8

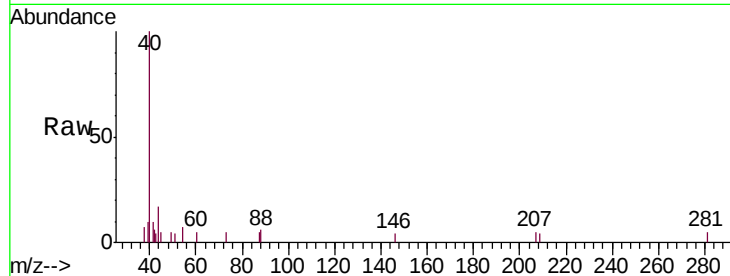
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 160.0 0.0 0.0#

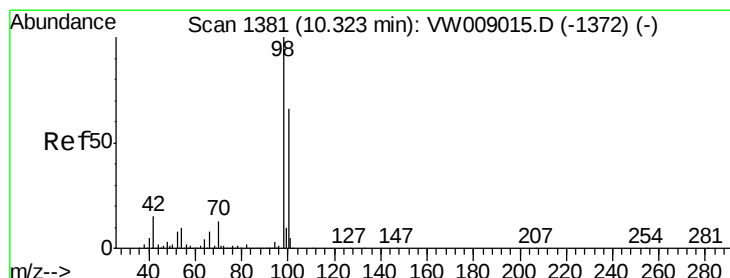
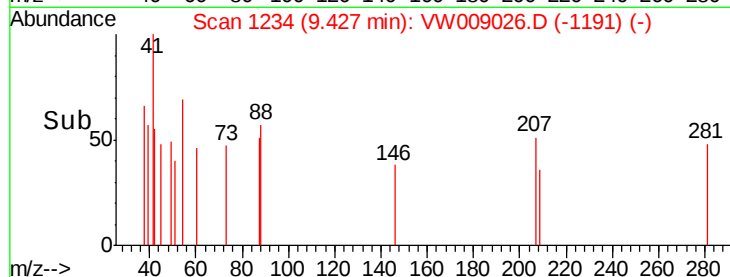
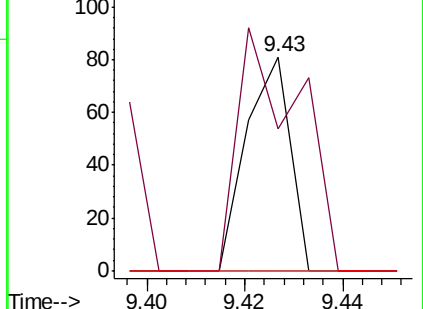
58 0.0 55.0 82.6#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 48.563 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009026.D

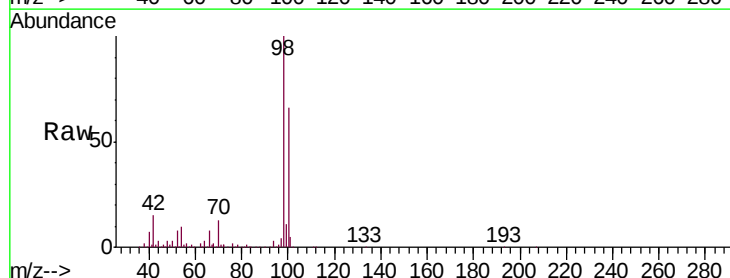
Acq: 06 Mar 2019 20:11

Tgt Ion: 98 Resp: 116407

Ion Ratio Lower Upper

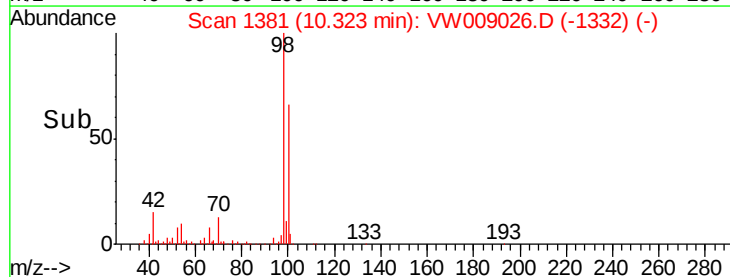
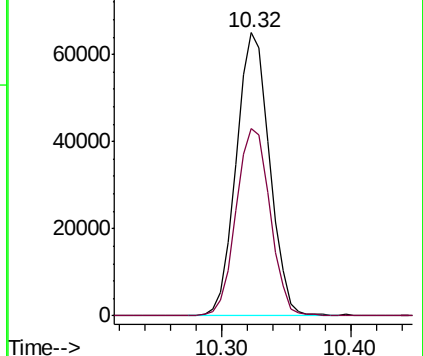
98 100

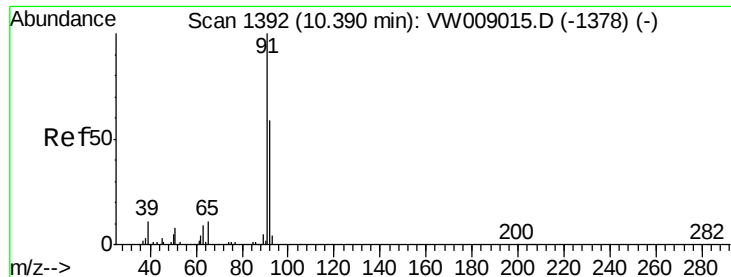
100 67.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 6.429 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

Instrument :

MSVOA\_W

ClientSampleId :

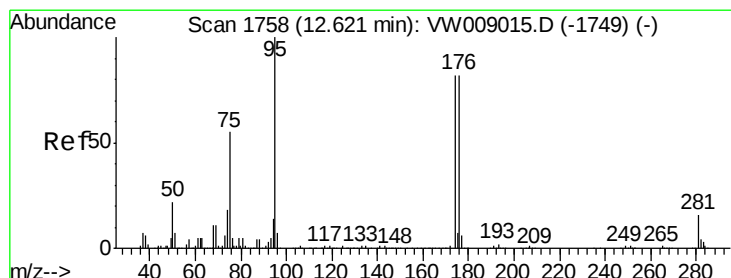
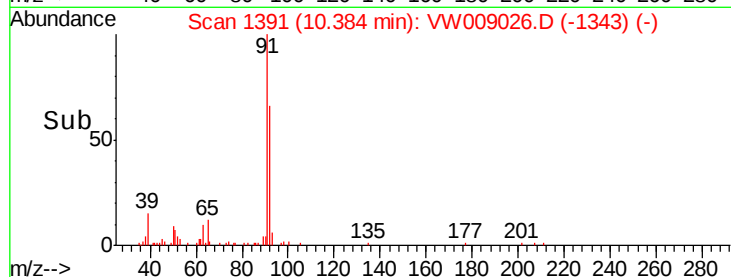
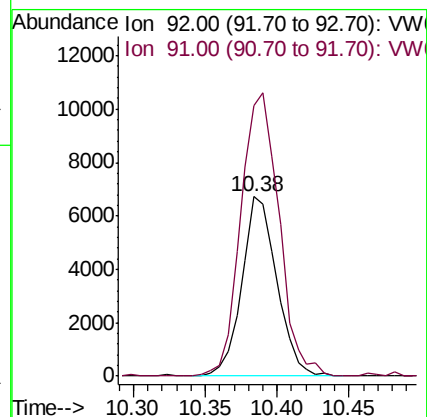
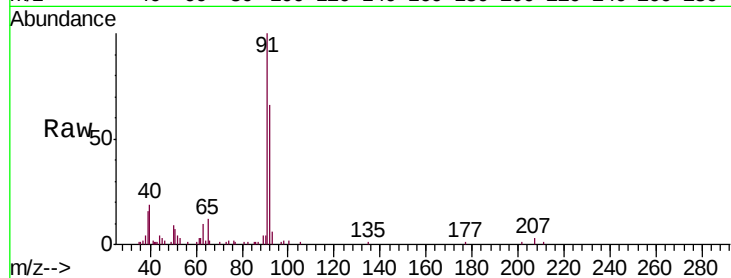
Z2-8

Tgt Ion: 92 Resp: 11278

Ion Ratio Lower Upper

92 100

91 173.2 138.1 207.1



#62

4-Bromofluorobenzene

Concen: 38.924 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

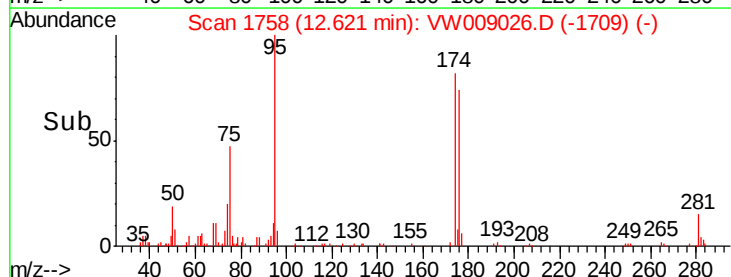
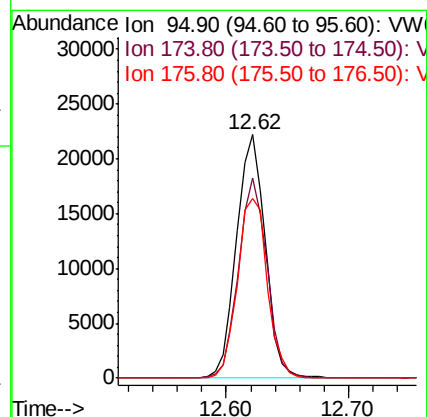
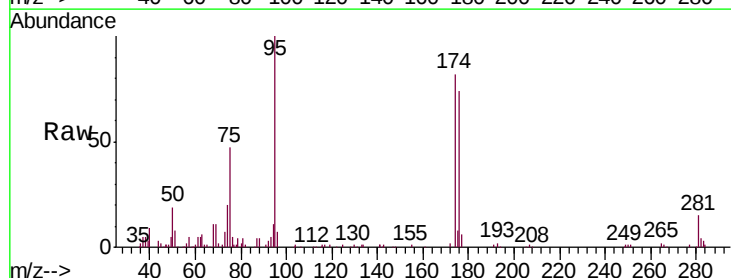
Tgt Ion: 95 Resp: 36033

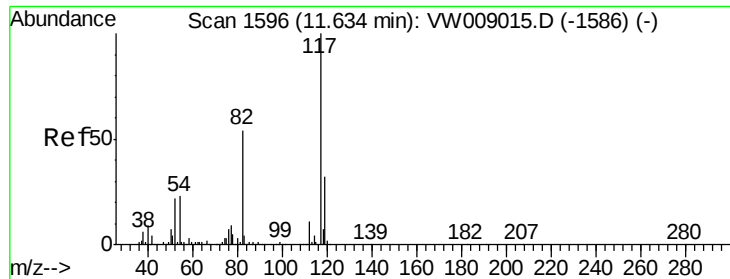
Ion Ratio Lower Upper

95 100

174 81.3 0.0 165.8

176 76.1 0.0 159.8

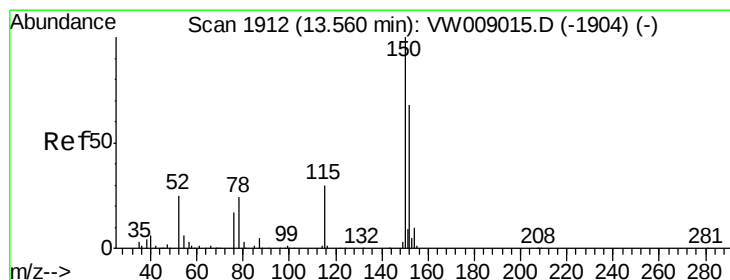
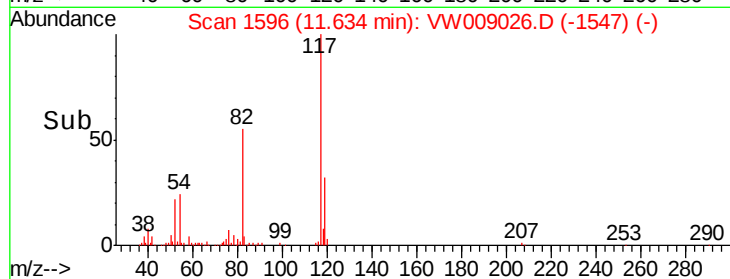
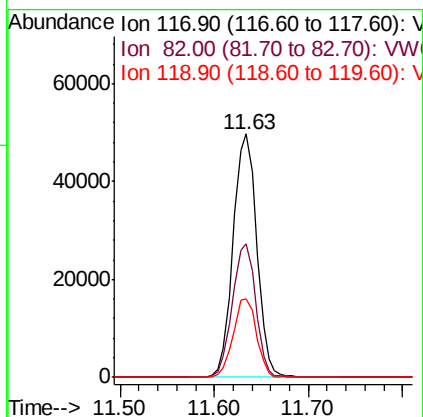
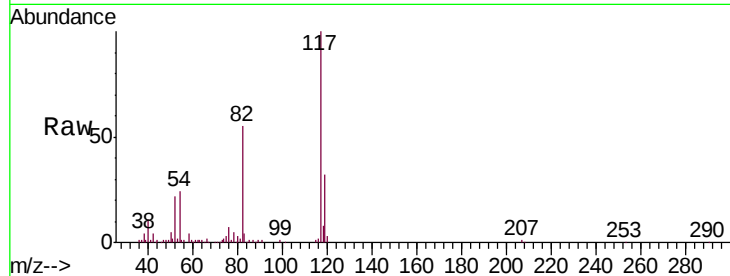




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

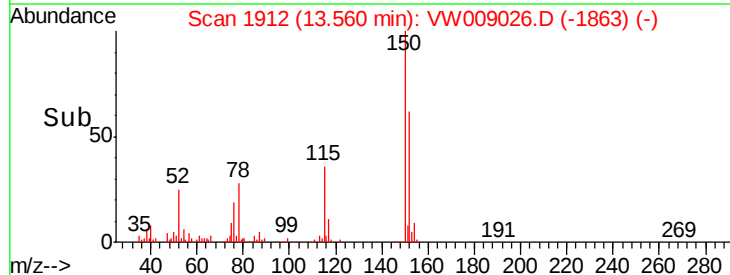
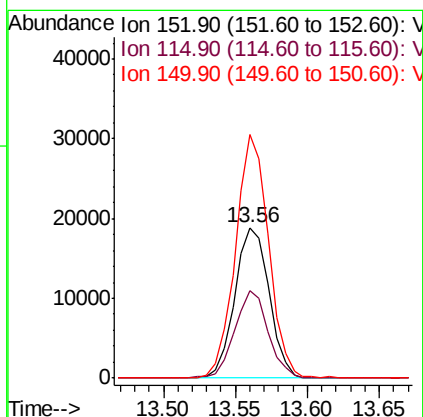
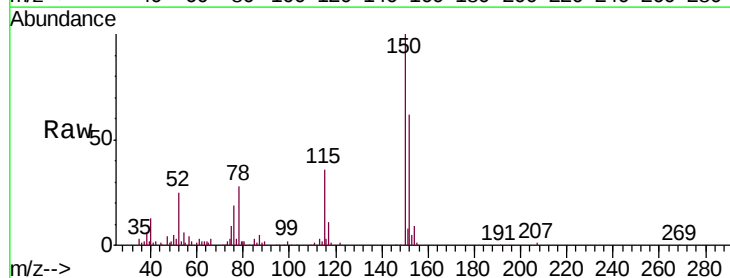
Instrument :  
MSVOA\_W  
ClientSampleId :  
Z2-8

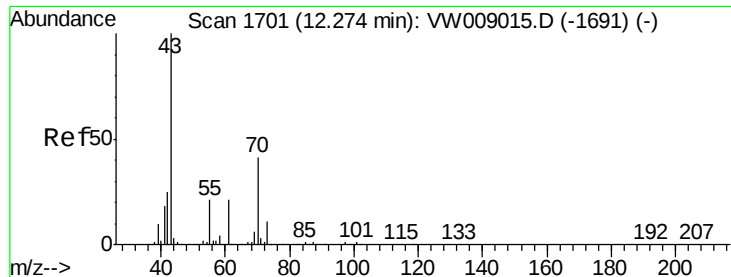
Tgt Ion:117 Resp: 86845  
Ion Ratio Lower Upper  
117 100  
82 55.1 43.4 65.2  
119 32.3 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

Tgt Ion:152 Resp: 31217  
Ion Ratio Lower Upper  
152 100  
115 56.3 29.3 87.8  
150 156.3 0.0 348.6

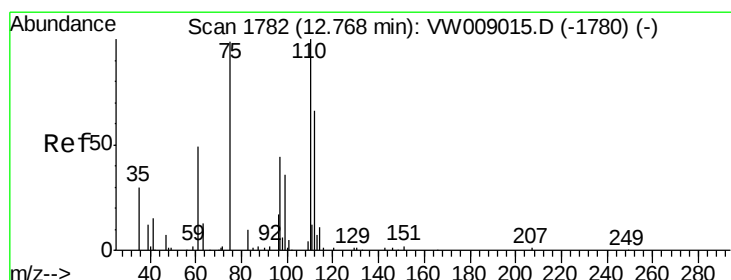
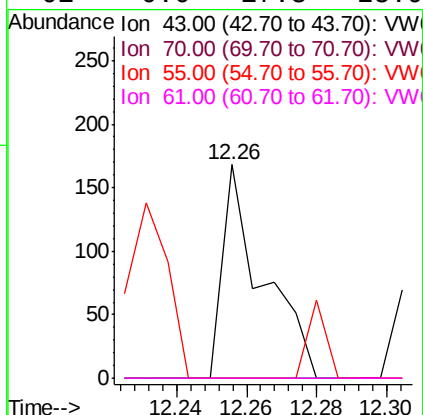
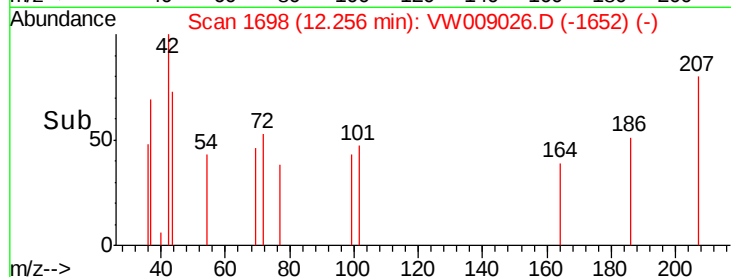
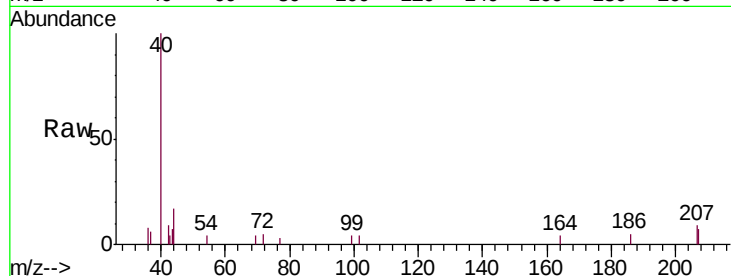




#74  
N-amyI acetate  
Concen: 4.433 ug/l  
RT: 12.26 min Scan# 1698  
Delta R.T. -0.02 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

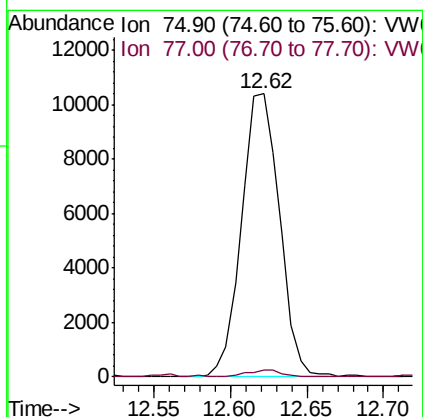
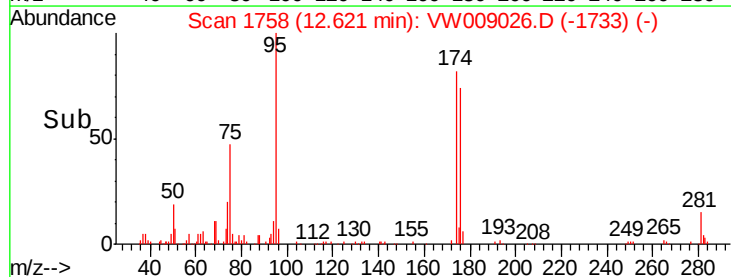
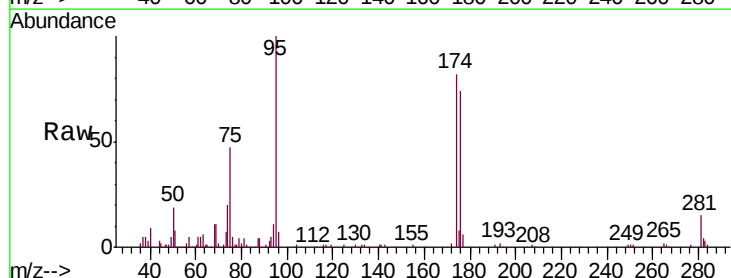
Instrument :  
MSVOA\_W  
ClientSampleId :  
Z2-8

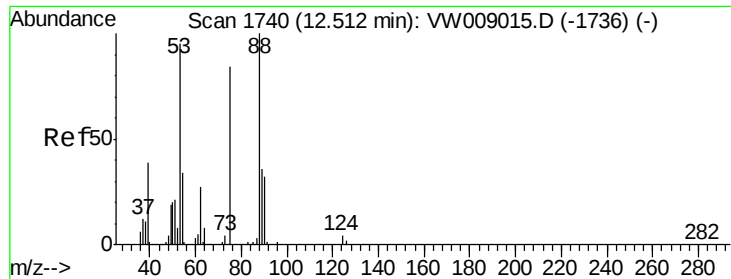
Tgt Ion: 43 Resp: 134  
Ion Ratio Lower Upper  
43 100  
70 0.0 31.2 46.8#  
55 0.0 18.0 27.0#  
61 0.0 17.3 25.9#



#76  
1,2,3-Trichloropropane  
Concen: 72.551 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW009026.D  
Acq: 06 Mar 2019 20:11

Tgt Ion: 75 Resp: 17950  
Ion Ratio Lower Upper  
75 100  
77 2.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 146.942 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009026.D

Acq: 06 Mar 2019 20:11

Instrument :

MSVOA\_W

ClientSampleId :

Z2-8

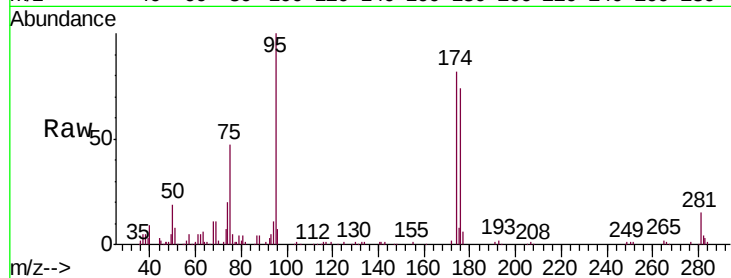
Tgt Ion: 75 Resp: 17950

Ion Ratio Lower Upper

75 100

53 0.1 88.5 132.7#

89 0.0 36.3 54.5#



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

