

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110218\  
 Data File : VW006557.D  
 Acq On : 01 Nov 2018 14:23  
 Operator : SY/AP  
 Sample : J5649-09RE  
 Misc : 4.77G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DL-03B

Quant Time: Nov 01 15:25:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 262283   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 412945   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 381970   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 201536   | 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   | 89239    | 39.58 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.16% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 92678    | 35.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 71.52% |          |
| 50) Toluene-d8              | 10.33 | 98   | 334517   | 33.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 67.82% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 119781   | 33.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 66.98% |          |

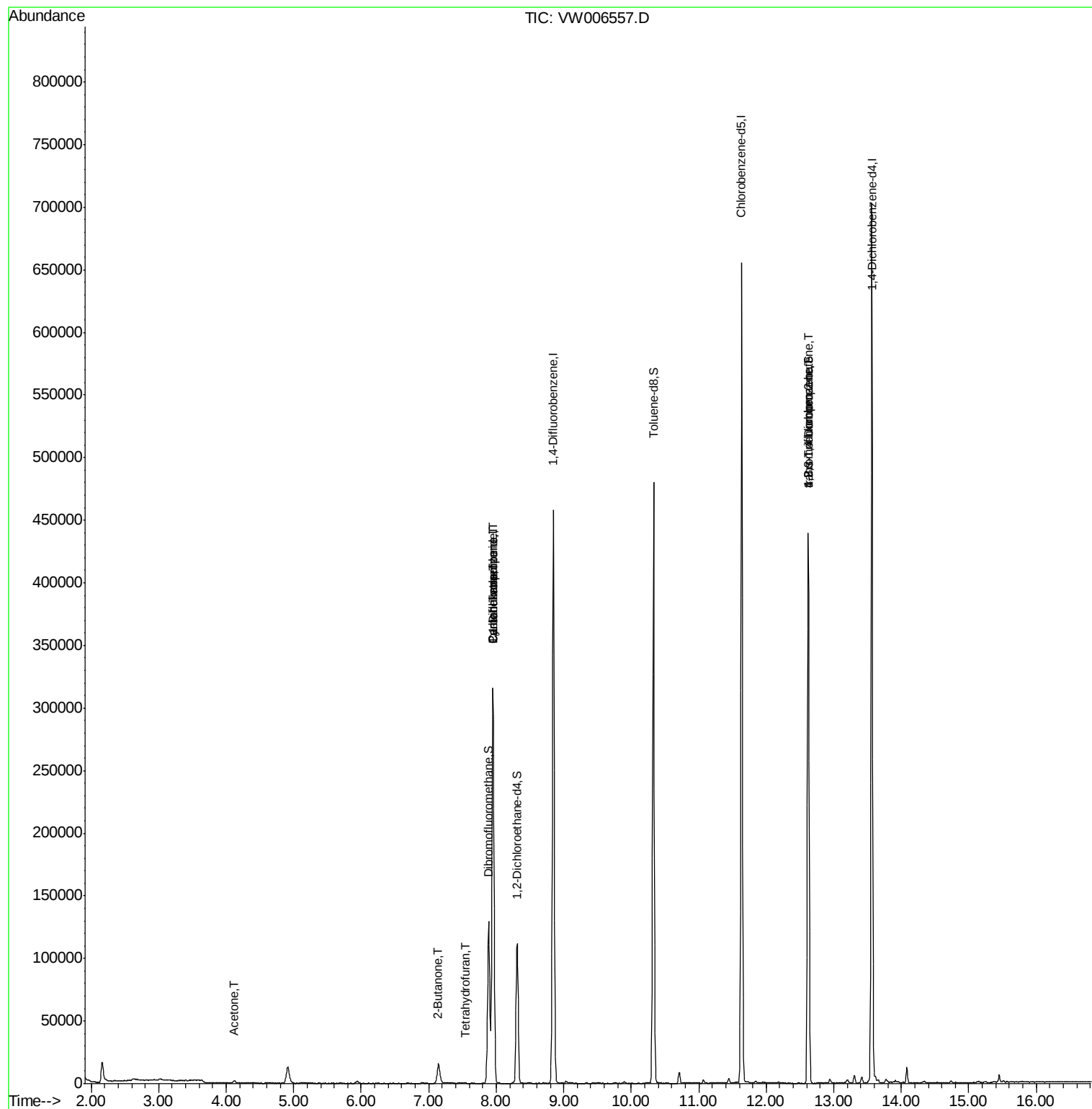
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                    | 4.12  | 43   | 3577     | 9.83  | ug/l   | 90     |
| 20) Methylene Chloride         | 4.91  | 84   | 10888    | Below | Cal    | 92     |
| 25) 2-Butanone                 | 7.15  | 43   | 869      | 1.67  | ug/l # | 46     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 403      | 1.23  | ug/l # | 54     |
| 31) Cyclohexane                | 7.95  | 56   | 4221     | 1.18  | ug/l # | 24     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16272    | 4.48  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22650    | 5.97  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 59544    | 37.87 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 59544    | 95.51 | ug/l # | 11     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW110218\  
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Misc : 4.77G/5ML/MSVOA\_W/SOIL  
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DL-03B

Quant Time: Nov 01 15:25:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 01 03:48:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

Instrument :

MSVOA\_W

ClientSampled :

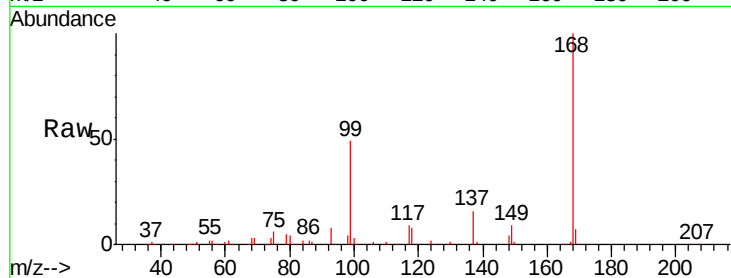
DL-03B

Tgt Ion:168 Resp: 262283

Ion Ratio Lower Upper

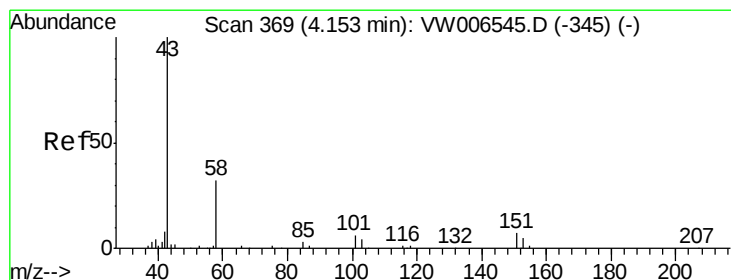
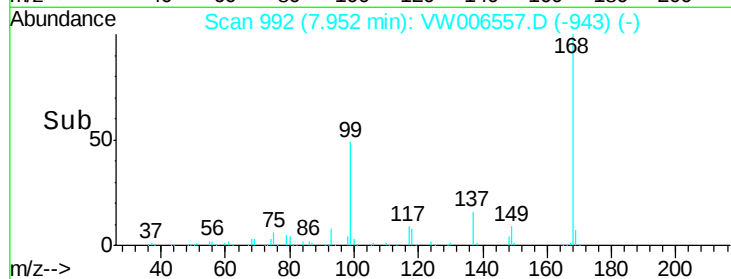
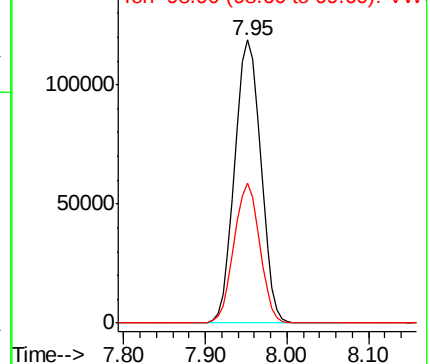
168 100

99 49.3 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 9.83 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.03 min

Lab File: VW006557.D

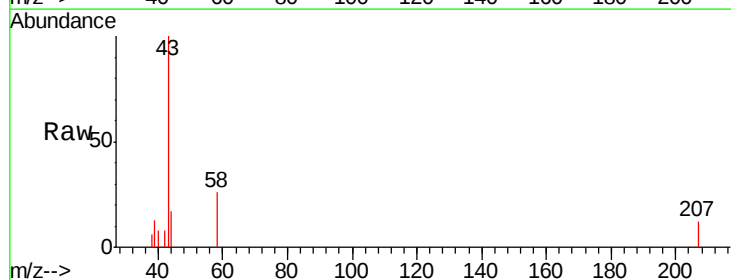
Acq: 01 Nov 2018 14:23

Tgt Ion: 43 Resp: 3577

Ion Ratio Lower Upper

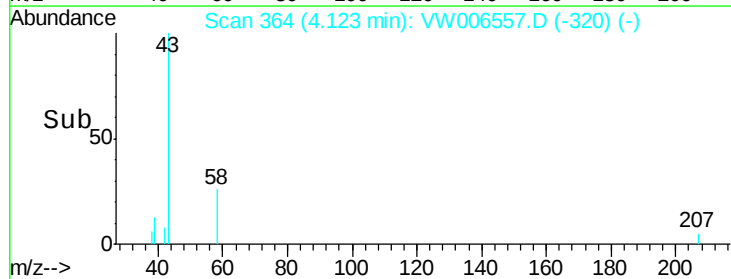
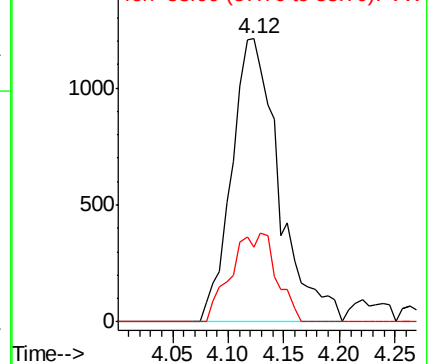
43 100

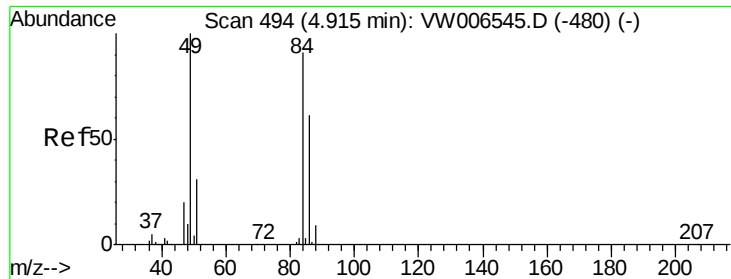
58 26.4 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

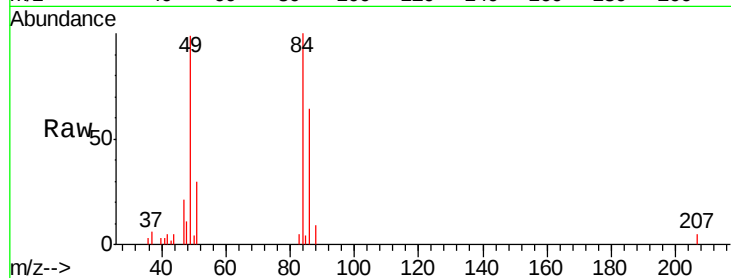




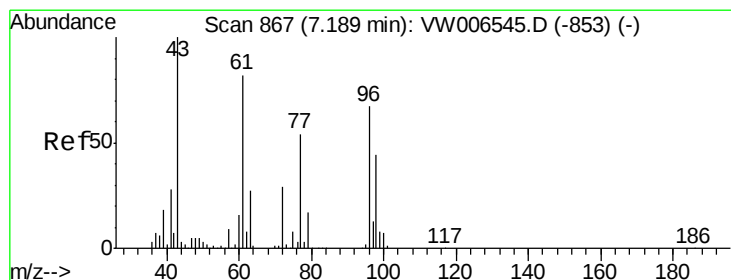
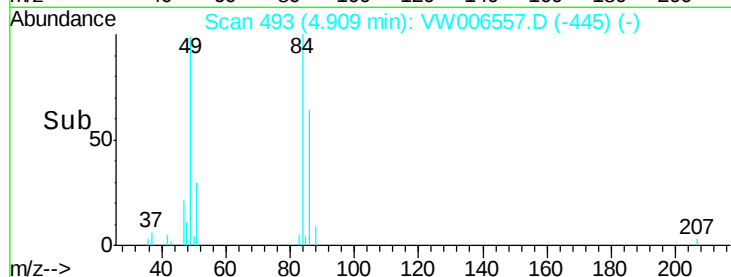
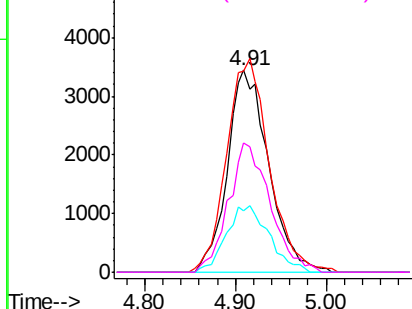
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW006557.D  
Acq: 01 Nov 2018 14:23

Instrument :  
MSVOA\_W  
ClientSampled :  
DL-03B

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 10888 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 99.4  | 88.2  | 132.4 |
| 51       | 30.4  | 27.0  | 40.6  |
| 86       | 63.7  | 53.8  | 80.8  |

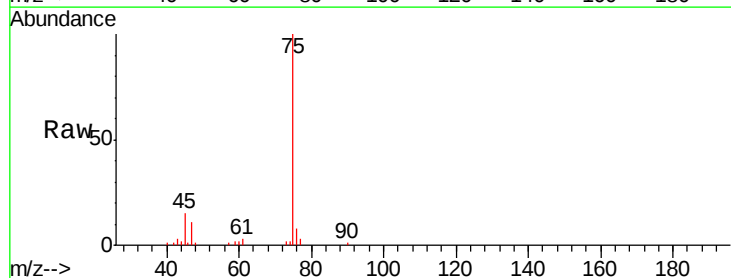


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

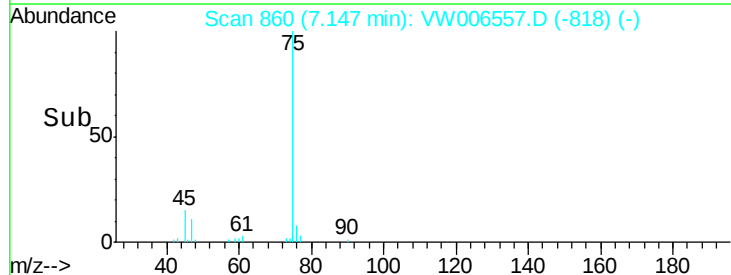
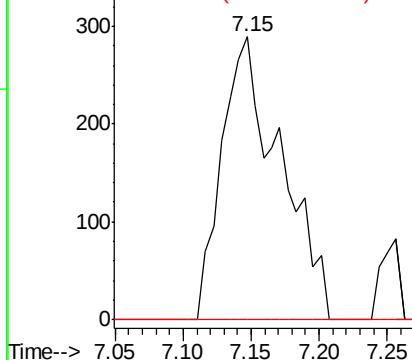


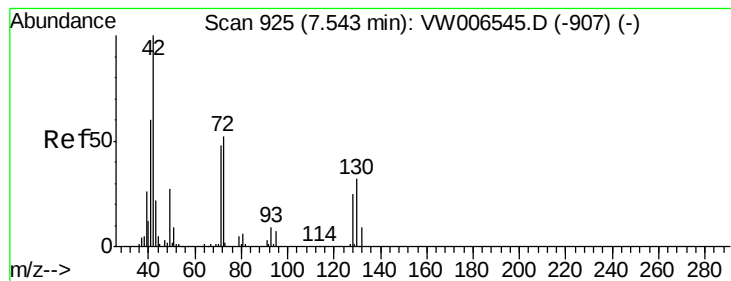
#25  
2-Butanone  
Concen: 1.67 ug/l  
RT: 7.15 min Scan# 860  
Delta R.T. -0.04 min  
Lab File: VW006557.D  
Acq: 01 Nov 2018 14:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 869   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 23.2  | 34.8# |



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





#29

Tetrahydrofuran

Concen: 1.23 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.01 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

Instrument :

MSVOA\_W

ClientSampled :

DL-03B

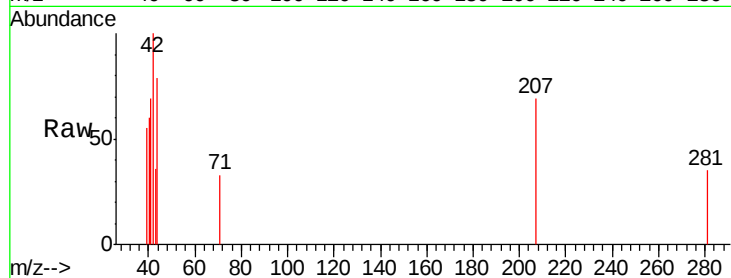
Tgt Ion: 42 Resp: 403

Ion Ratio Lower Upper

42 100

72 18.6 39.2 58.8#

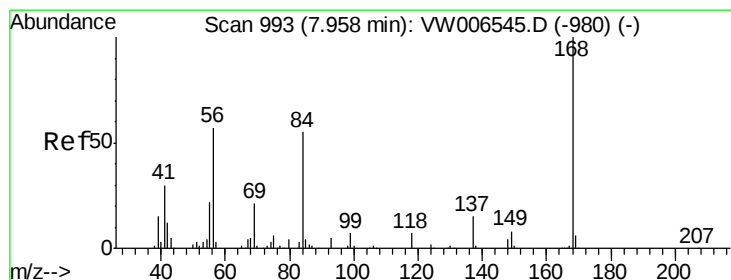
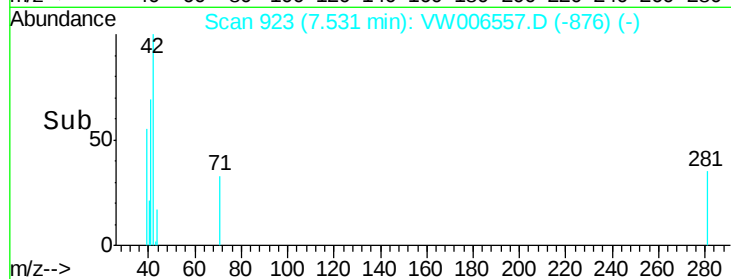
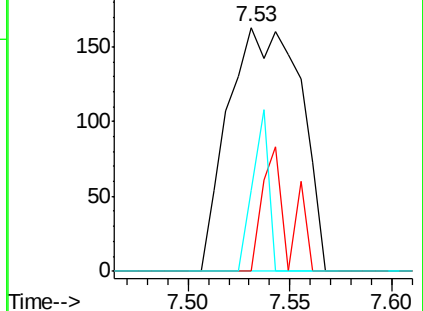
71 14.6 37.6 56.4#



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



#31

Cyclohexane

Concen: 1.18 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

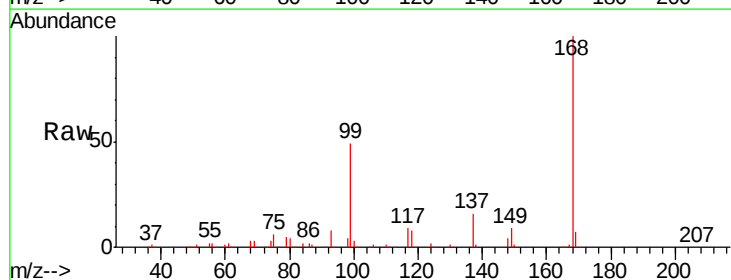
Tgt Ion: 56 Resp: 4221

Ion Ratio Lower Upper

56 100

69 157.7 29.0 43.4#

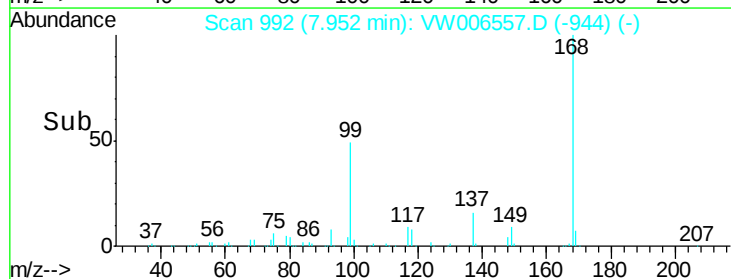
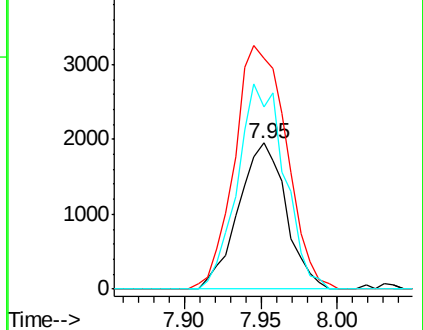
84 124.6 77.8 116.6#

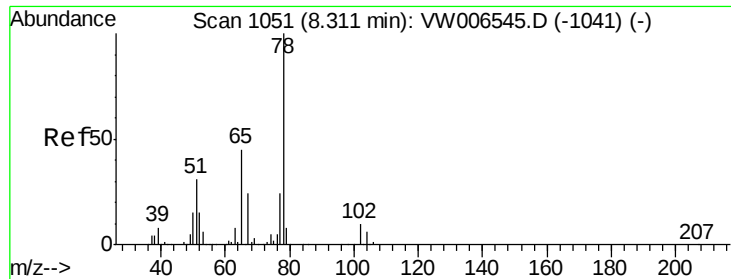


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

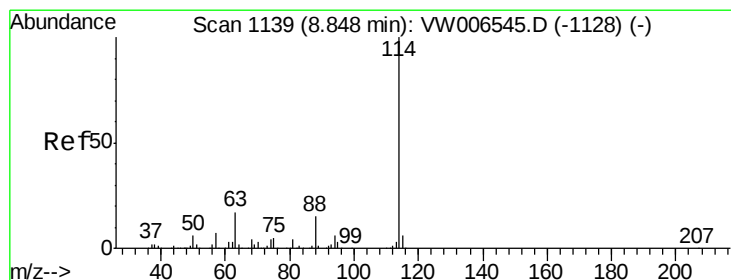
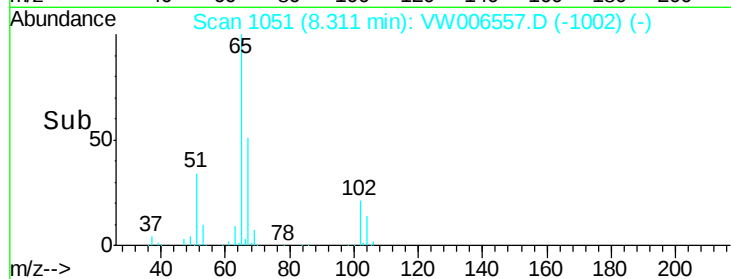
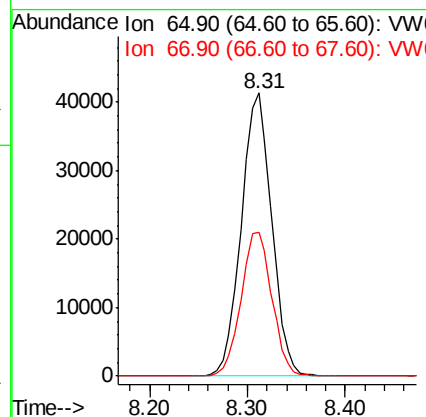
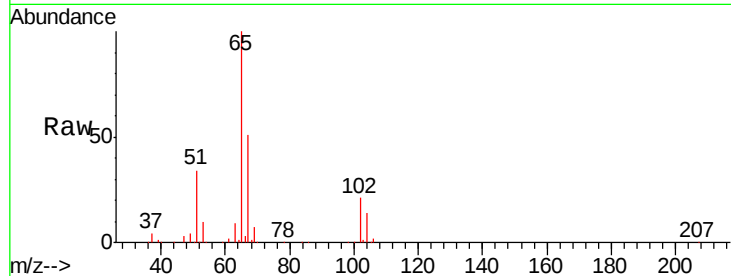




#33  
 1,2-Dichloroethane-d4  
 Concen: 39.58 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW006557.D  
 Acq: 01 Nov 2018 14:23

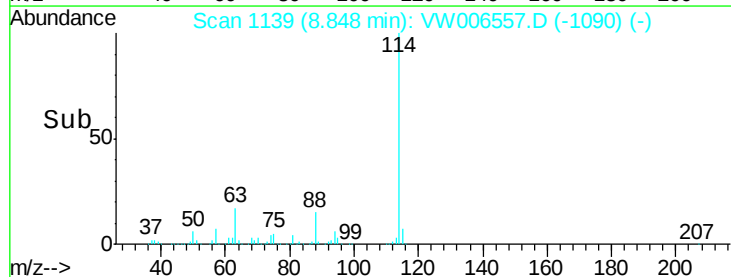
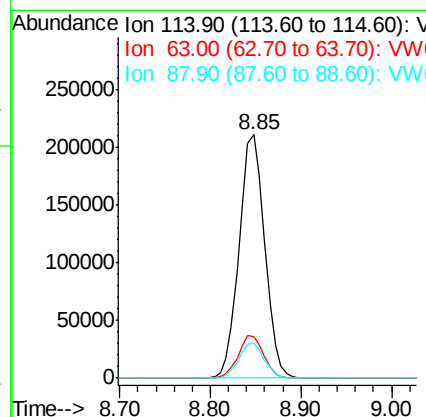
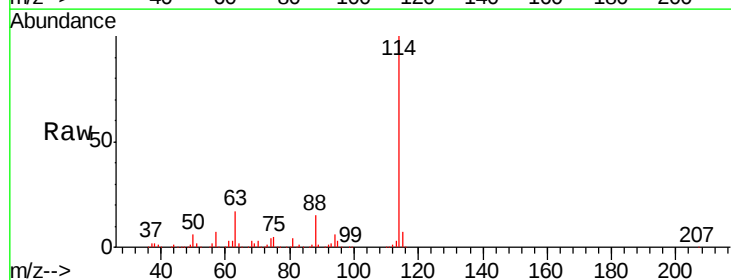
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DL-03B

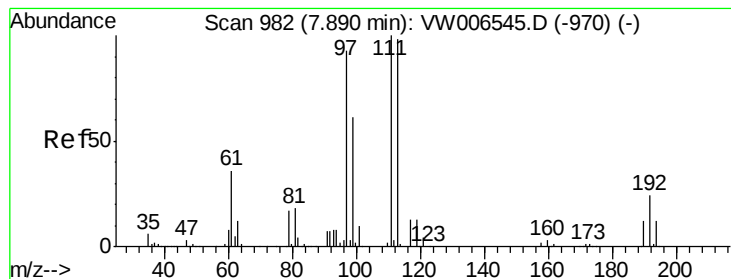
Tgt Ion: 65 Resp: 89239  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006557.D  
 Acq: 01 Nov 2018 14:23

Tgt Ion: 114 Resp: 412945  
 Ion Ratio Lower Upper  
 114 100  
 63 17.2 0.0 34.4  
 88 14.6 0.0 29.0





#35

Dibromofluoromethane

Concen: 35.76 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

Instrument :

MSVOA\_W

ClientSampled :

DL-03B

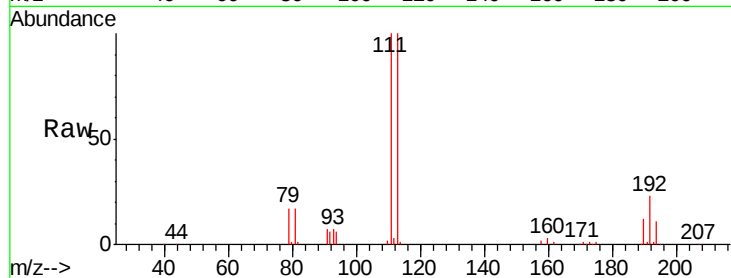
Tgt Ion:113 Resp: 92678

Ion Ratio Lower Upper

113 100

111 100.9 82.2 123.2

192 23.5 19.0 28.6

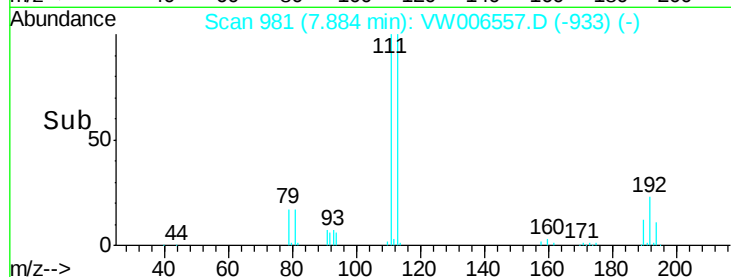


Abundance Ion 112.80 (112.50 to 113.50): V

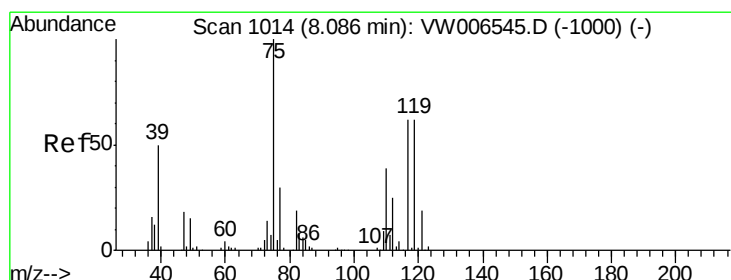
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

Time-->



Time-->



#36

1,1-Dichloropropene

Concen: 4.48 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

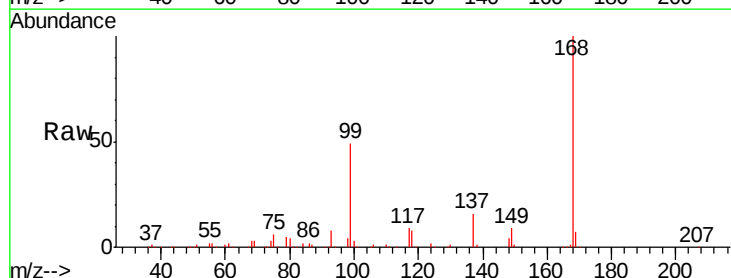
Tgt Ion: 75 Resp: 16272

Ion Ratio Lower Upper

75 100

110 10.1 19.5 58.5#

77 0.0 24.6 37.0#

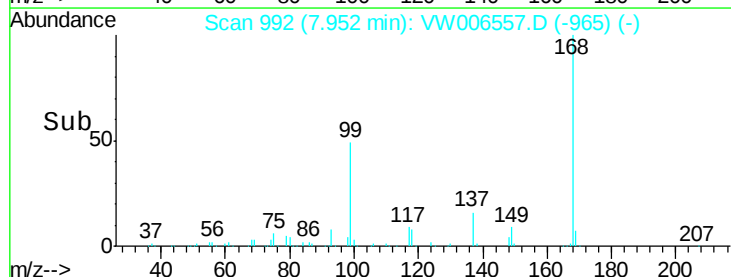


Abundance Ion 74.90 (74.60 to 75.60): VW

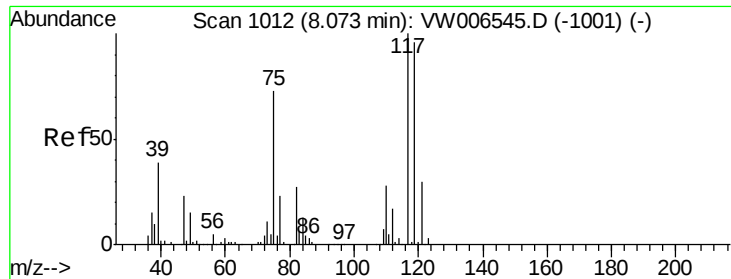
Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

Time-->



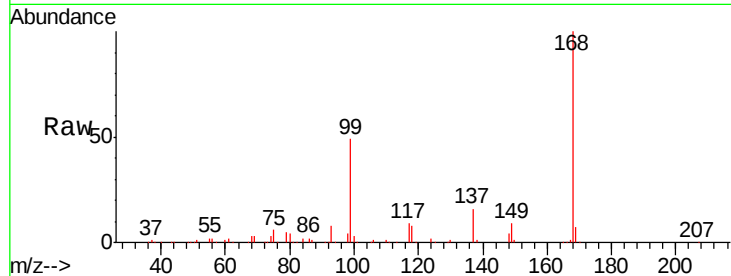
Time-->



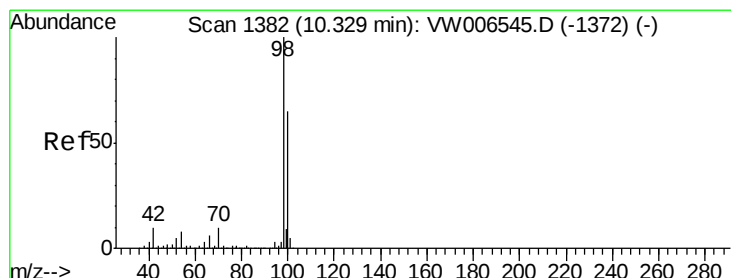
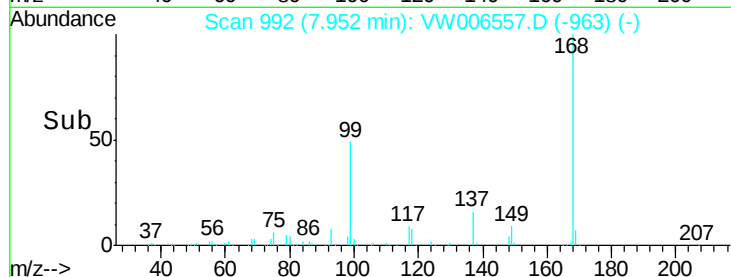
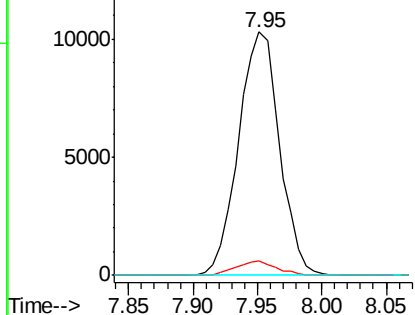
#38  
Carbon Tetrachloride  
Concen: 5.97 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW006557.D  
Acq: 01 Nov 2018 14:23

Instrument :  
MSVOA\_W  
ClientSampleId :  
DL-03B

Tgt Ion:117 Resp: 22650  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.3 114.5#  
121 0.0 24.1 36.1#

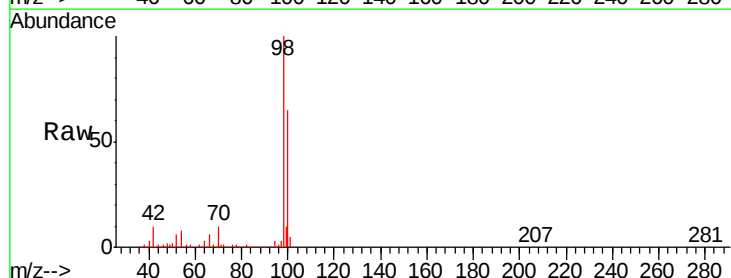


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

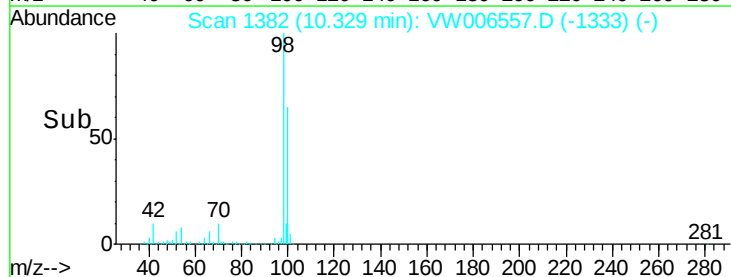
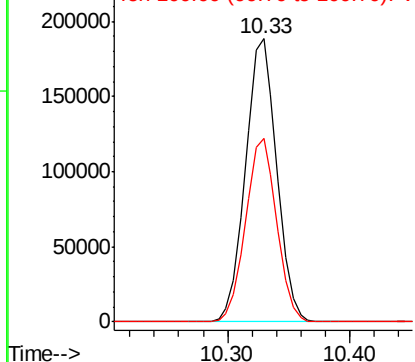


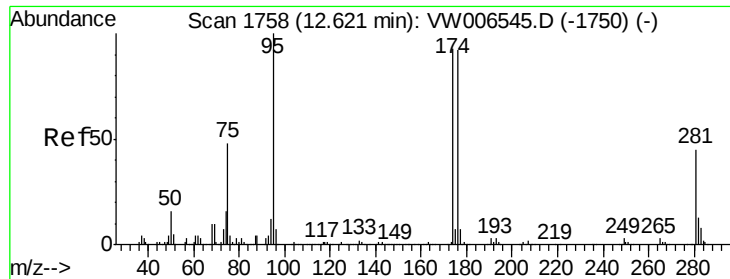
#50  
Toluene-d8  
Concen: 33.91 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006557.D  
Acq: 01 Nov 2018 14:23

Tgt Ion: 98 Resp: 334517  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

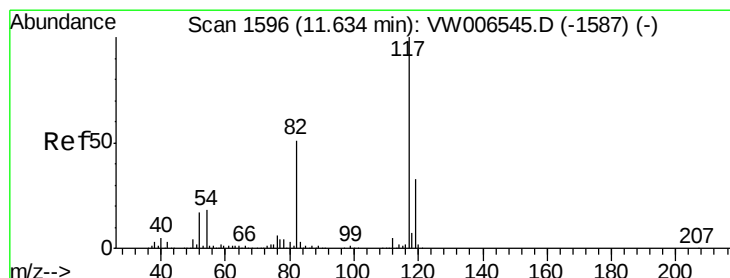
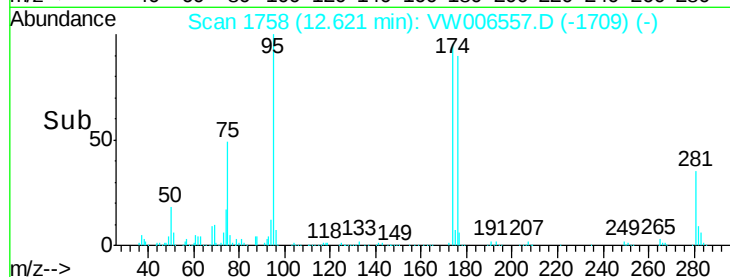
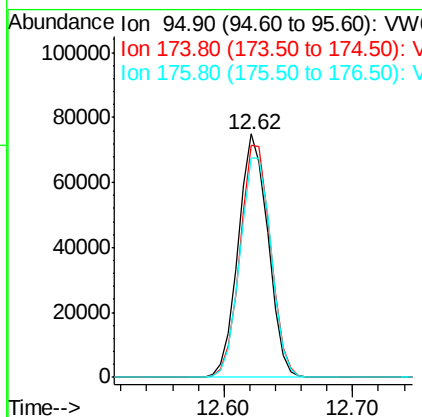
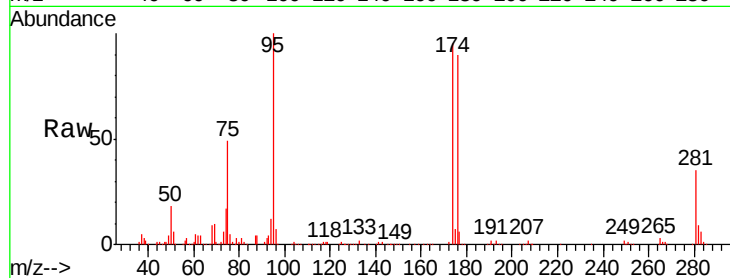




#62  
4-Bromofluorobenzene  
Concen: 33.49 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW006557.D  
Acq: 01 Nov 2018 14:23

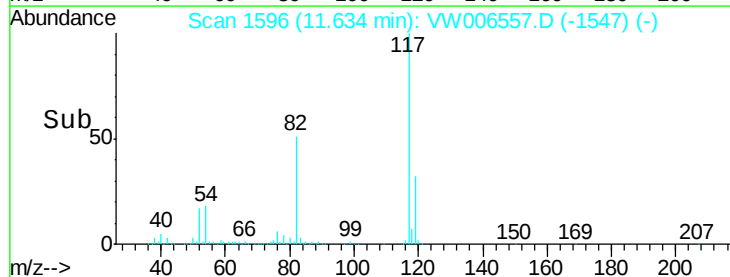
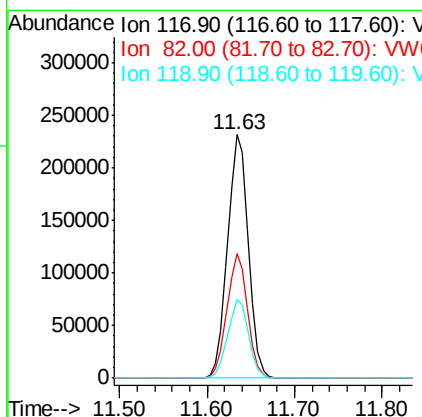
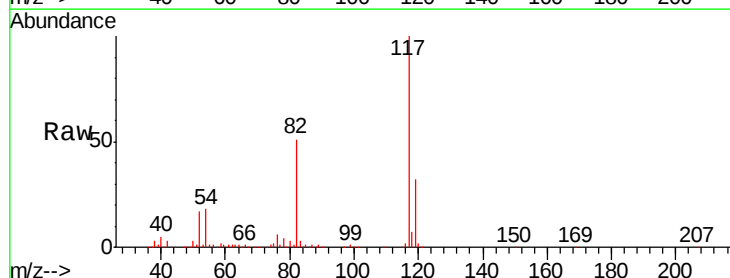
Instrument :  
MSVOA\_W  
ClientSampled :  
DL-03B

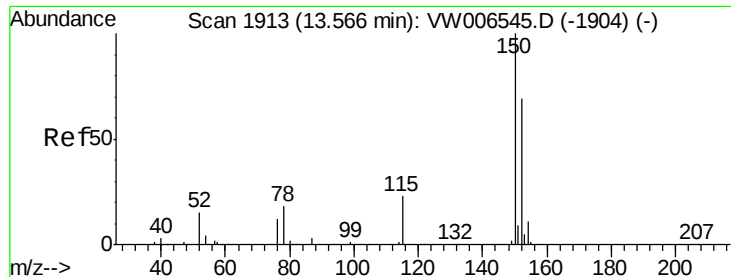
Tgt Ion: 95 Resp: 119781  
Ion Ratio Lower Upper  
95 100  
174 97.8 0.0 192.4  
176 94.3 0.0 187.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006557.D  
Acq: 01 Nov 2018 14:23

Tgt Ion: 117 Resp: 381970  
Ion Ratio Lower Upper  
117 100  
82 51.1 40.8 61.2  
119 32.2 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

Instrument :

MSVOA\_W

ClientSampleId :

DL-03B

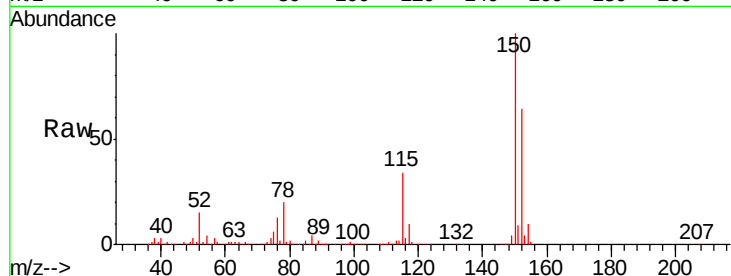
Tgt Ion:152 Resp: 201536

Ion Ratio Lower Upper

152 100

115 54.4 26.6 79.8

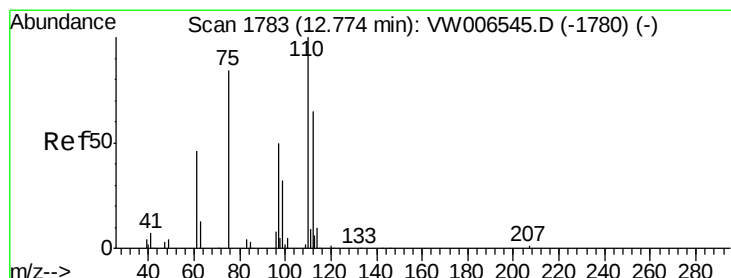
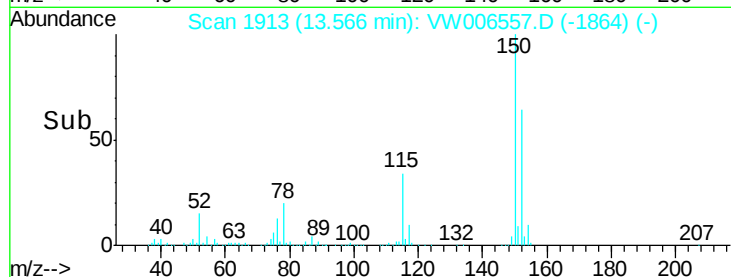
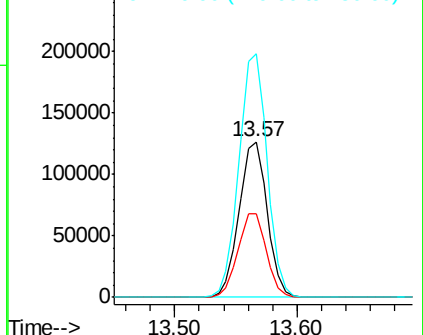
150 157.1 0.0 344.6



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: 37.87 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006557.D

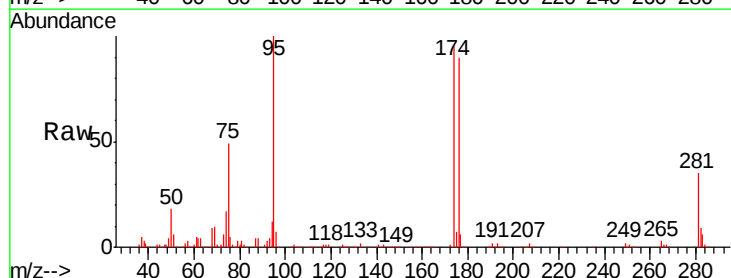
Acq: 01 Nov 2018 14:23

Tgt Ion: 75 Resp: 59544

Ion Ratio Lower Upper

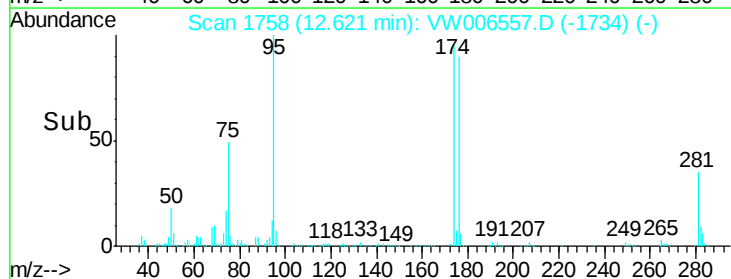
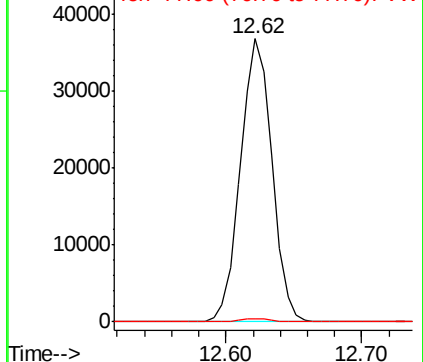
75 100

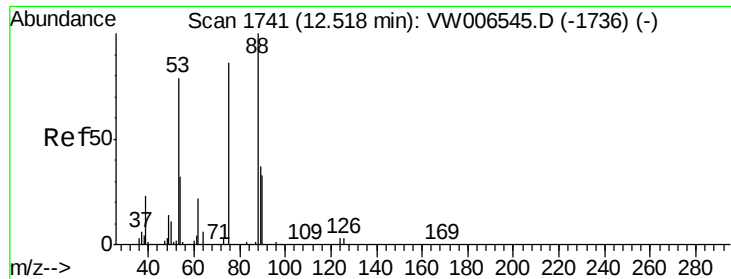
77 1.2 0.0 0.0#



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: 95.51 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006557.D

Acq: 01 Nov 2018 14:23

Instrument :

MSVOA\_W

ClientSampleId :

DL-03B

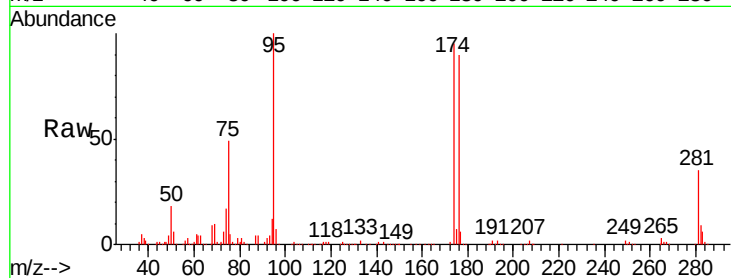
Tgt Ion: 75 Resp: 59544

Ion Ratio Lower Upper

75 100

53 0.0 77.2 115.8#

89 0.3 38.6 58.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

