

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121618\  
 Data File : VW007518.D  
 Acq On : 14 Dec 2018 06:18  
 Operator : SY/AP  
 Sample : J6357-09  
 Misc : 6.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-09B

Quant Time: Dec 14 06:42:50 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  | 67075    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 104707   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 73827    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 24964    | 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   | 26139    | 35.13  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 70.26% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 26450    | 41.73  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 83.46% |          |
| 50) Toluene-d8              | 10.32 | 98   | 83615    | 35.18  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 70.36% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 23867    | 27.31  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 54.62% |          |

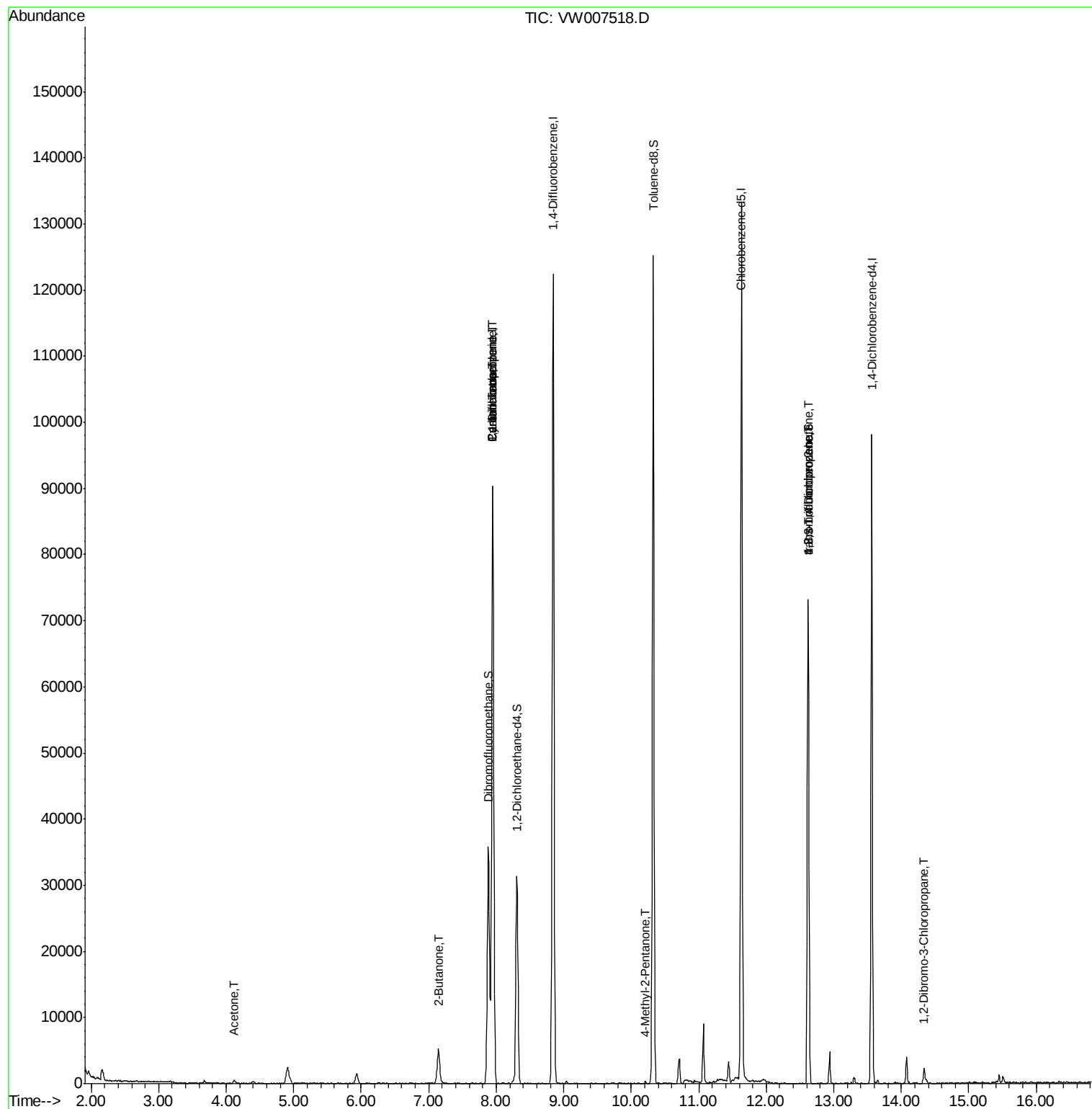
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.12  | 43   | 753      | 5.793     | ug/l   | 95     |
| 20) Methylene Chloride         | 4.92  | 84   | 2132     | Below Cal | #      | 80     |
| 25) 2-Butanone                 | 7.15  | 43   | 179      | 1.055     | ug/l # | 45     |
| 31) Cyclohexane                | 7.95  | 56   | 1336     | 1.156     | ug/l # | 34     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5234     | 5.480     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 6962     | 6.699     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 333      | 1.004     | ug/l # | 68     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 11692    | 56.803    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 11692    | 125.478   | ug/l # | 7      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.33 | 75   | 275      | 4.837     | ug/l # | 3      |

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

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Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-09B

Quant Time: Dec 14 06:42:50 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

Instrument :

MSVOA\_W

ClientSampleId :

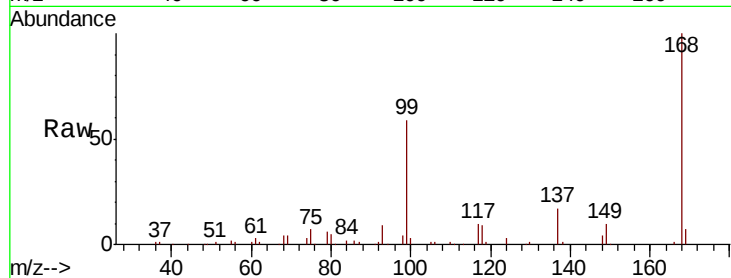
SB-09B

Tot Ion:168 Resp: 67075

Ion Ratio Lower Upper

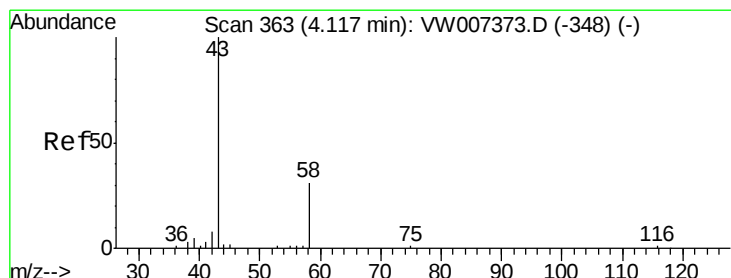
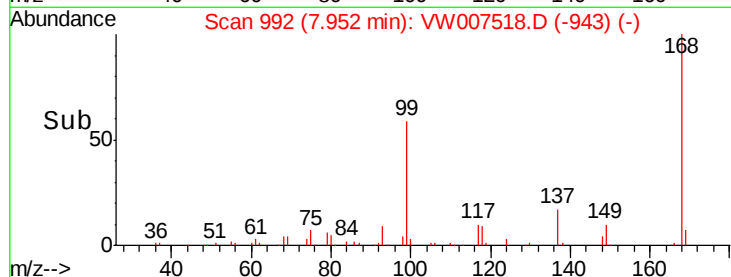
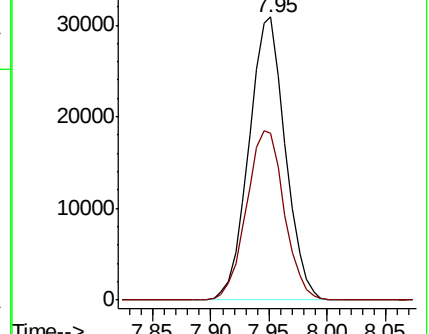
168 100

99 58.8 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 5.793 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007518.D

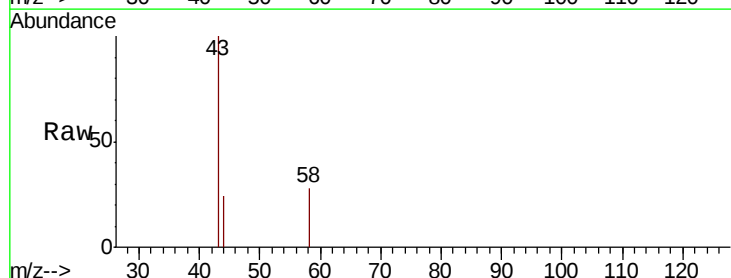
Acq: 14 Dec 2018 06:18

Tgt Ion: 43 Resp: 753

Ion Ratio Lower Upper

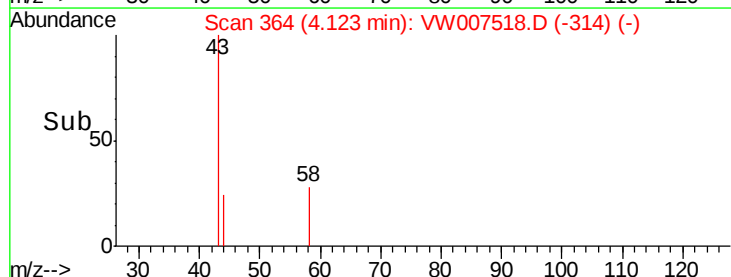
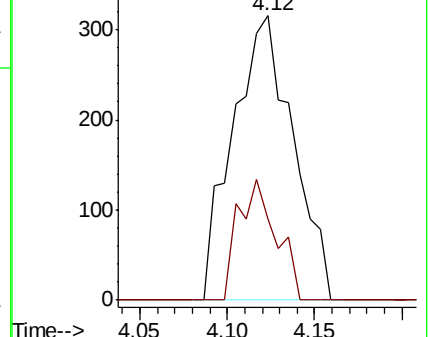
43 100

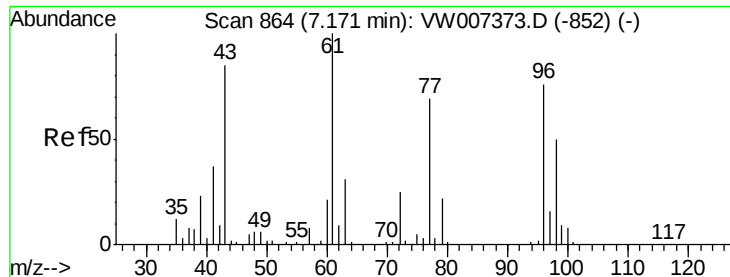
58 28.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#25

2-Butanone

Concen: 1.055 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

Instrument :

MSVOA\_W

ClientSampled :

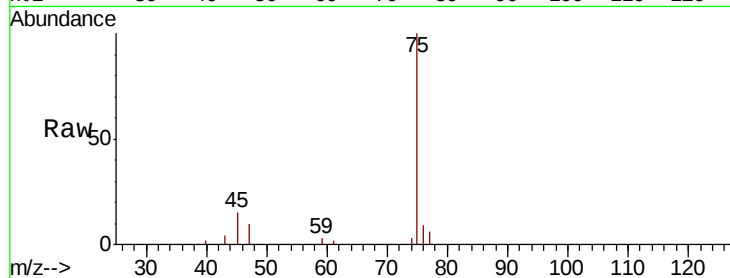
SB-09B

Tot Ion: 43 Resp: 179

Ion Ratio Lower Upper

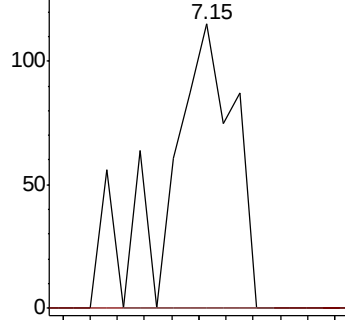
43 100

72 0.0 23.4 35.2#

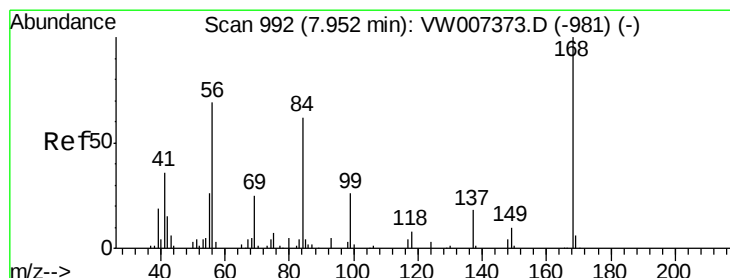
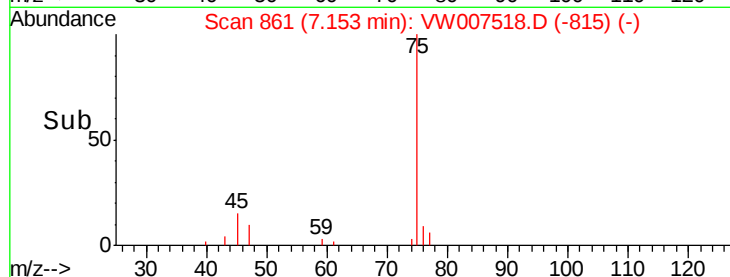


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



Time-->



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

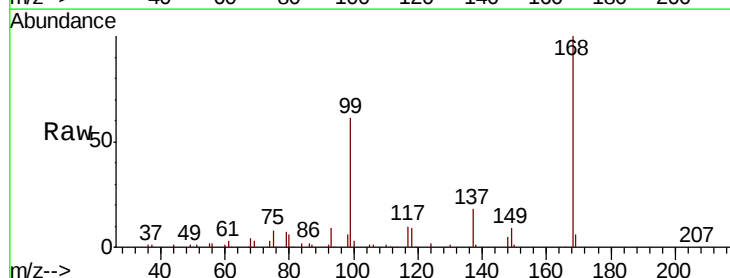
Tgt Ion: 56 Resp: 1336

Ion Ratio Lower Upper

56 100

69 145.1 28.9 43.3#

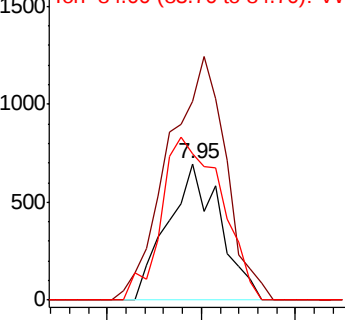
84 107.3 71.8 107.6



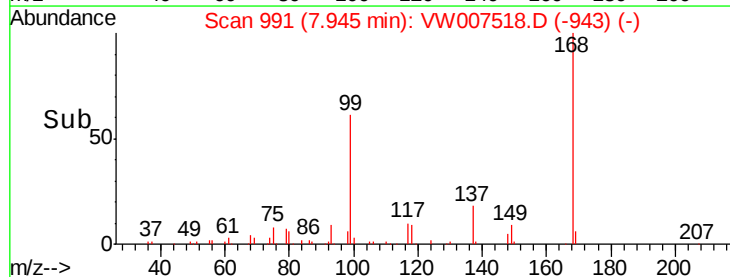
Abundance Ion 56.00 (55.70 to 56.70): VW

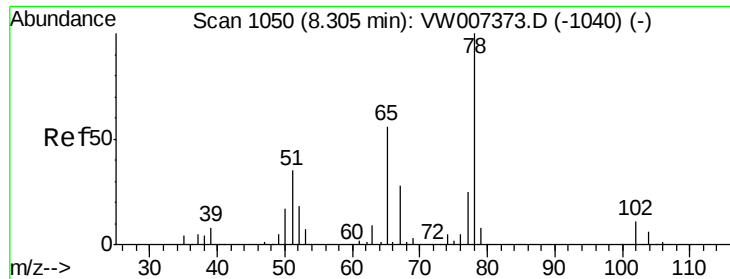
Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



Time-->

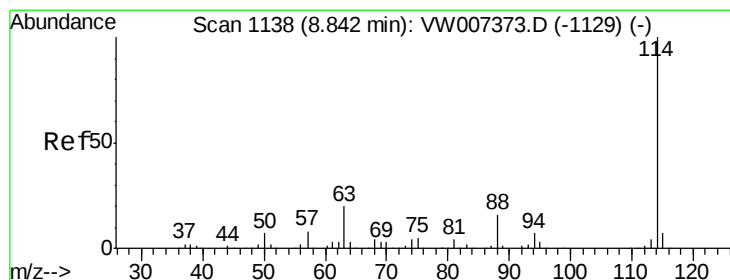
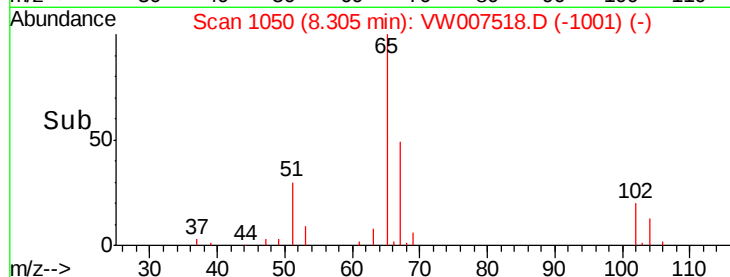
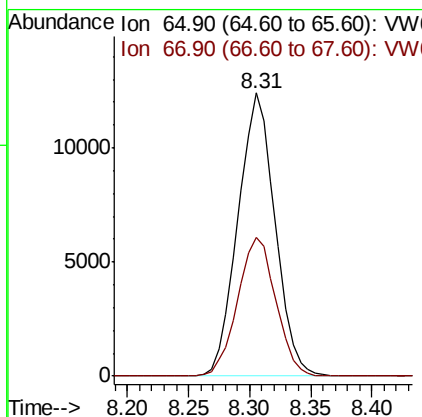
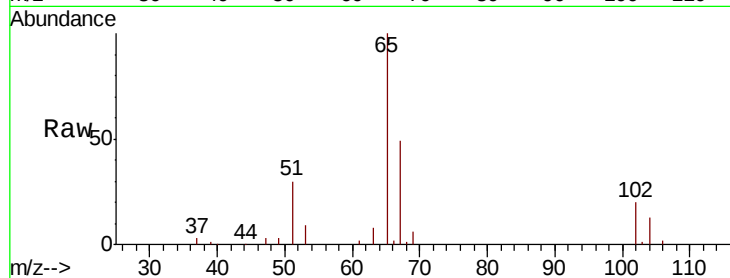




#33  
 1,2-Dichloroethane-d4  
 Concen: 35.126 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007518.D  
 Acq: 14 Dec 2018 06:18

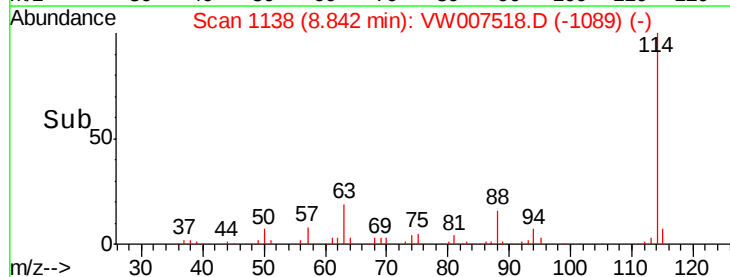
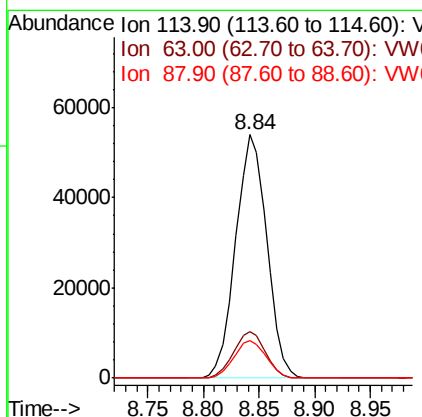
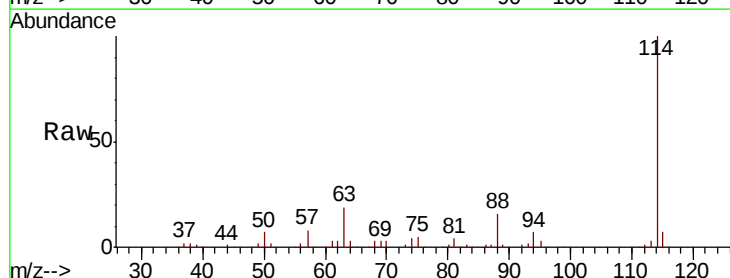
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-09B

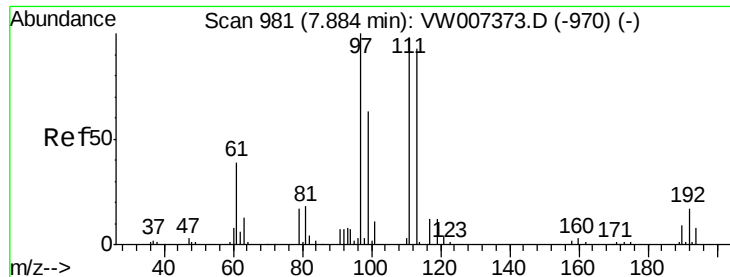
Tot Ion: 65 Resp: 26139  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007518.D  
 Acq: 14 Dec 2018 06:18

Tgt Ion: 114 Resp: 104707  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 39.6  
 88 15.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 41.730 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

Instrument :

MSVOA\_W

ClientSampleId :

SB-09B

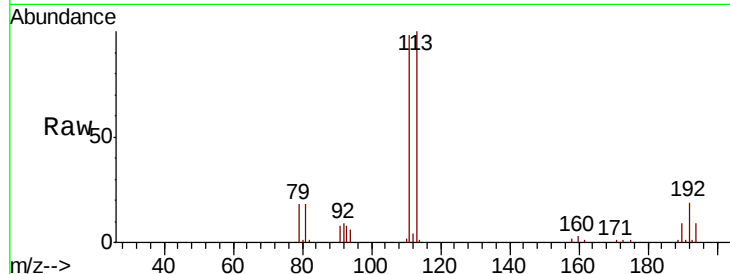
Tot Ion:113 Resp: 26450

Ion Ratio Lower Upper

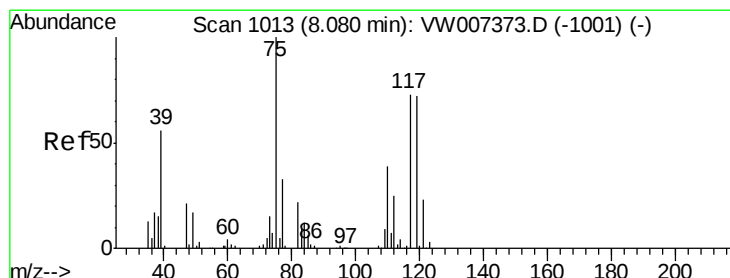
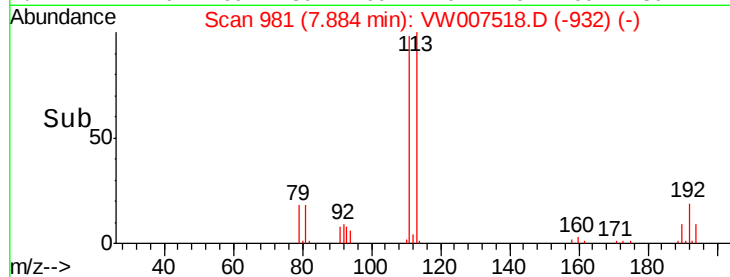
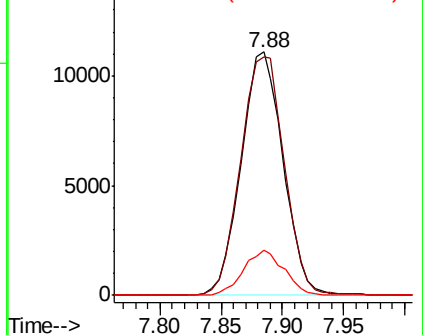
113 100

111 102.2 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: 5.480 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

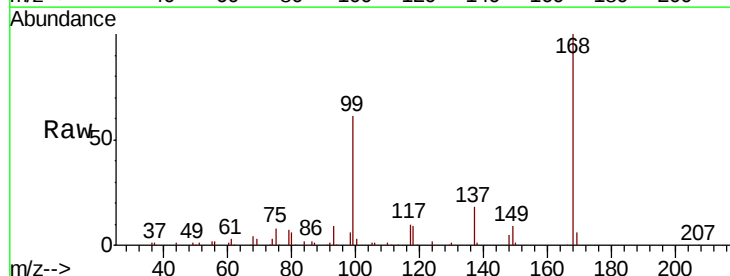
Tgt Ion: 75 Resp: 5234

Ion Ratio Lower Upper

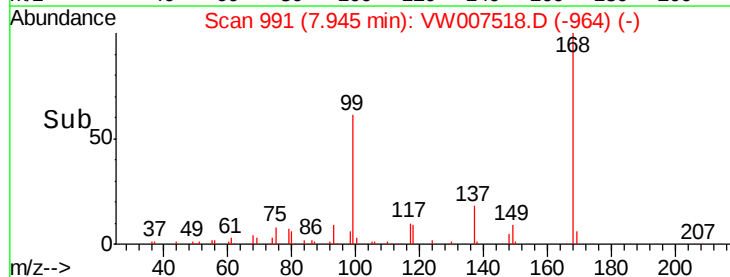
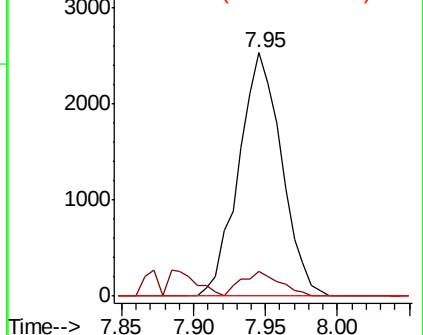
75 100

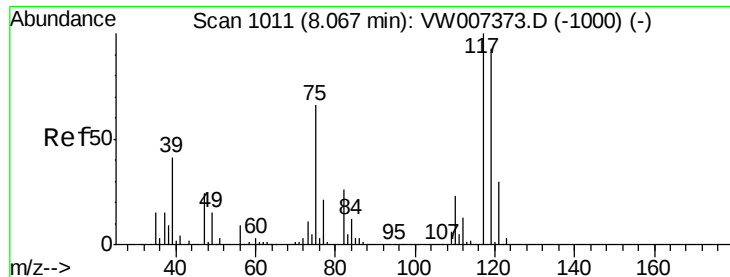
110 9.2 18.5 55.5#

77 0.0 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

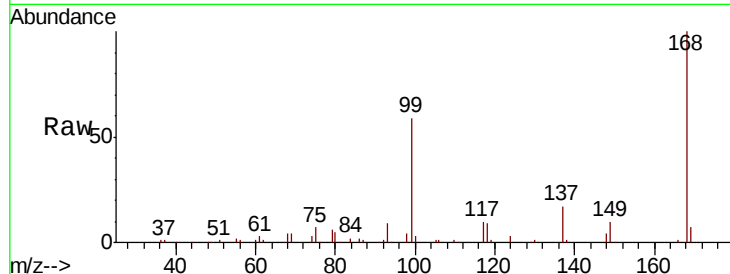




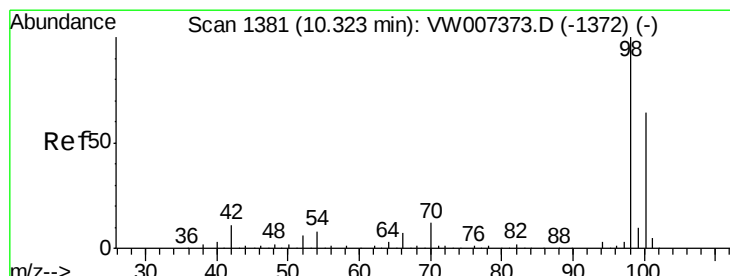
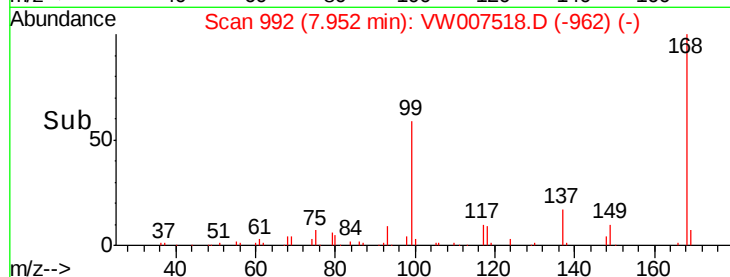
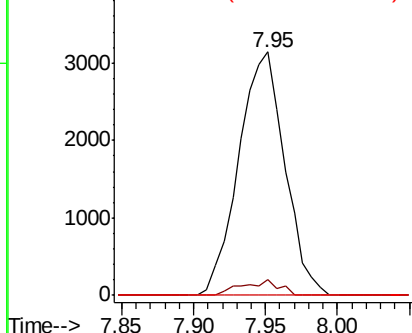
#38  
Carbon Tetrachloride  
Concen: 6.699 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW007518.D  
Acq: 14 Dec 2018 06:18

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-09B

Tot Ion:117 Resp: 6962  
Ion Ratio Lower Upper  
117 100  
119 6.5 74.3 111.5#  
121 0.0 24.3 36.5#

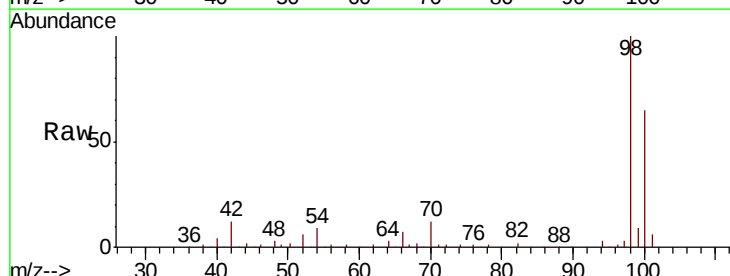


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

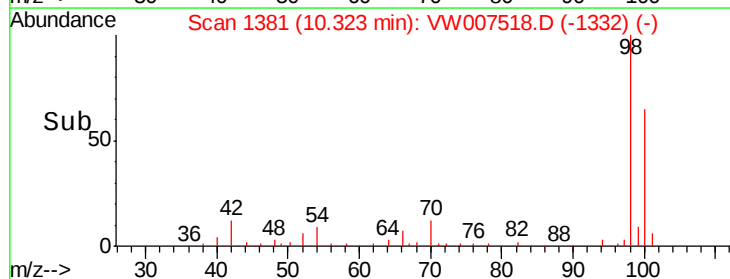
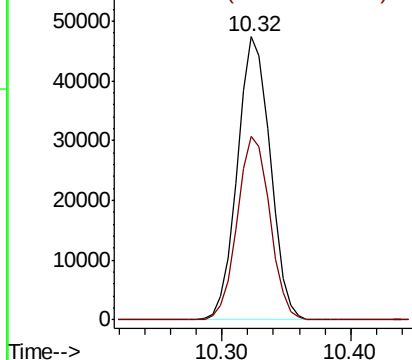


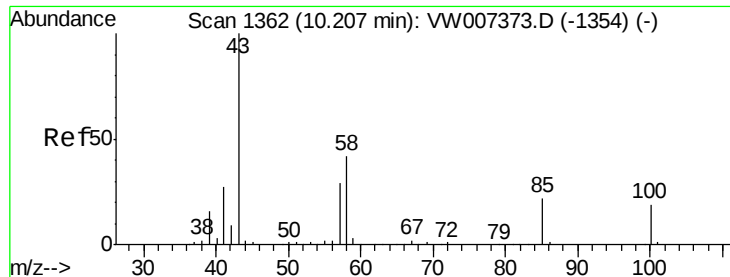
#50  
Toluene-d8  
Concen: 35.184 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW007518.D  
Acq: 14 Dec 2018 06:18

Tgt Ion: 98 Resp: 83615  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.004 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

Instrument :

MSVOA\_W

ClientSampled :

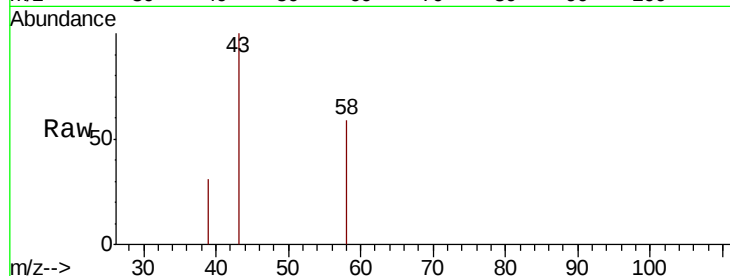
SB-09B

Tot Ion: 43 Resp: 333

Ion Ratio Lower Upper

43 100

58 21.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

200

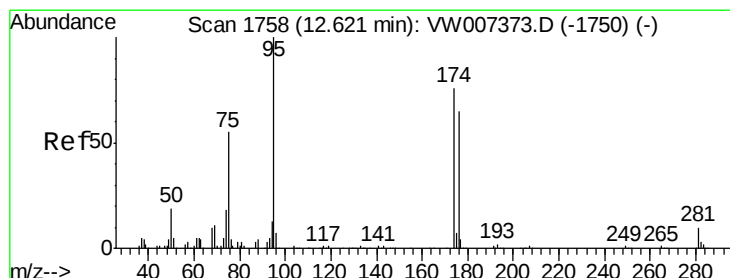
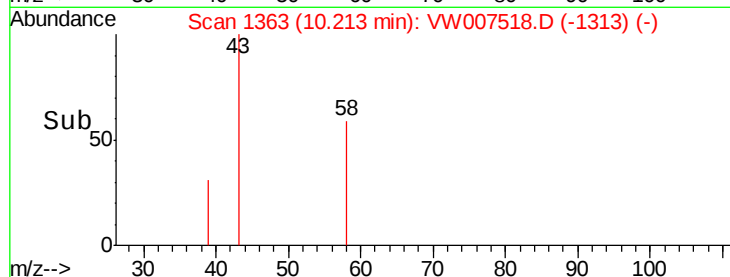
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 27.314 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

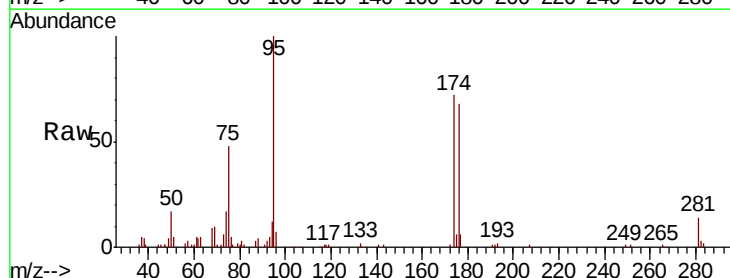
Tgt Ion: 95 Resp: 23867

Ion Ratio Lower Upper

95 100

174 72.3 0.0 147.2

176 69.3 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

20000

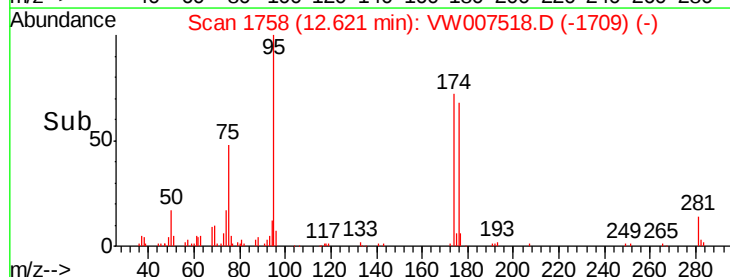
15000

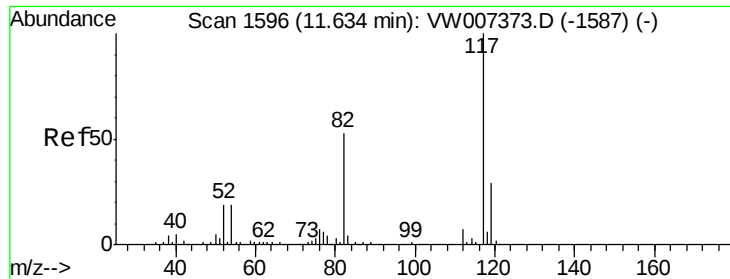
10000

5000

0

Time-->

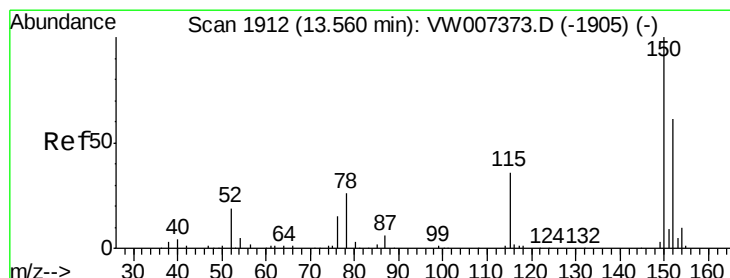
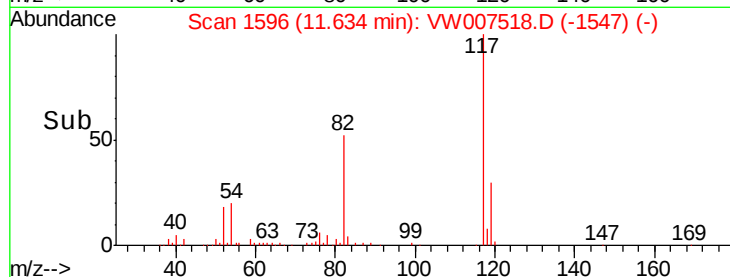
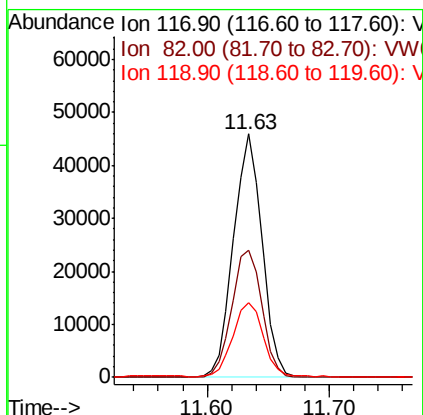
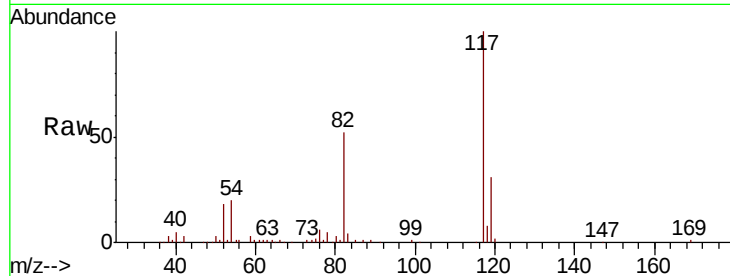




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007518.D  
Acq: 14 Dec 2018 06:18

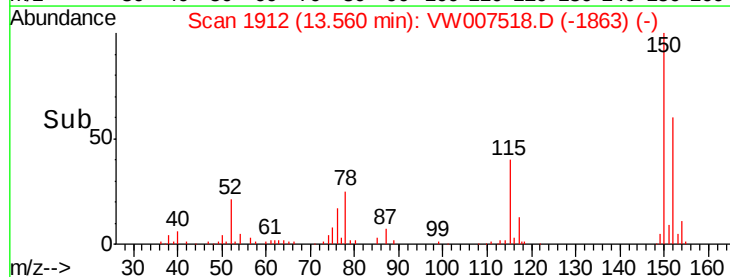
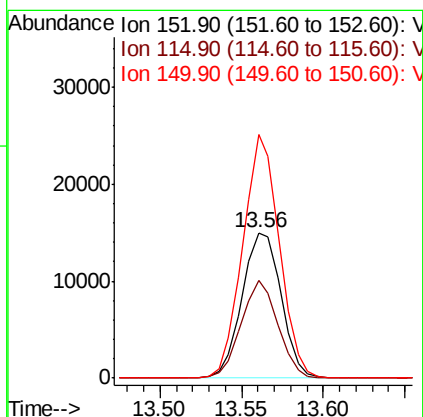
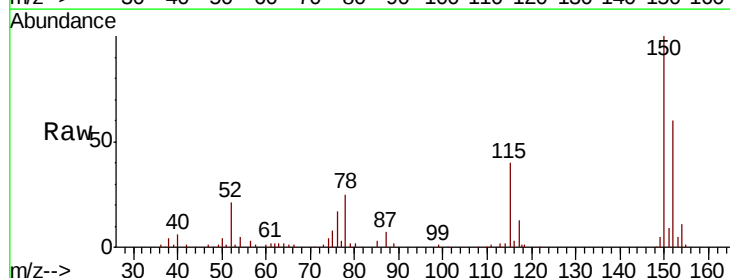
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-09B

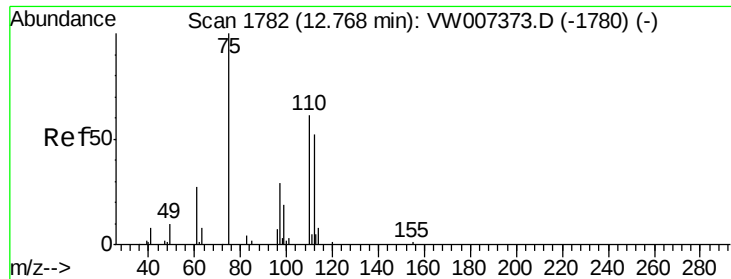
Tot Ion:117 Resp: 73827  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.3 63.5  
119 30.3 23.0 34.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW007518.D  
Acq: 14 Dec 2018 06:18

Tgt Ion:152 Resp: 24964  
Ion Ratio Lower Upper  
152 100  
115 63.2 31.4 94.2  
150 157.2 0.0 358.4





#76

1,2,3-Trichloropropane

Concen: 56.803 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

Instrument :

MSVOA\_W

ClientSampled :

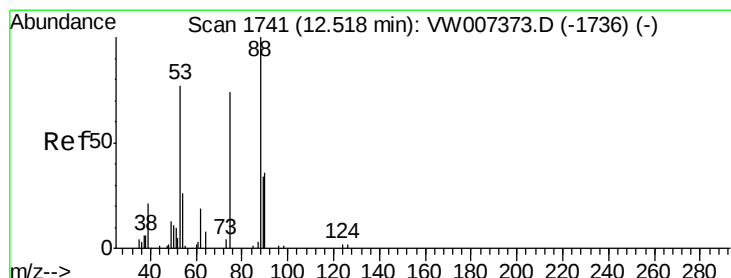
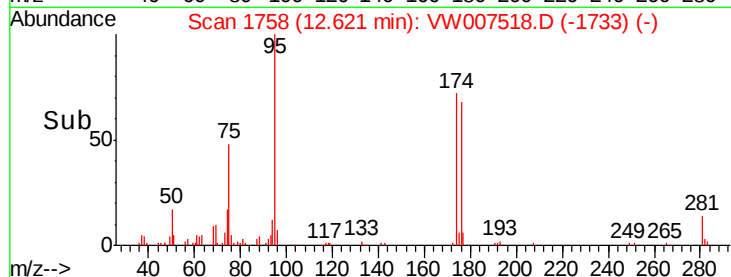
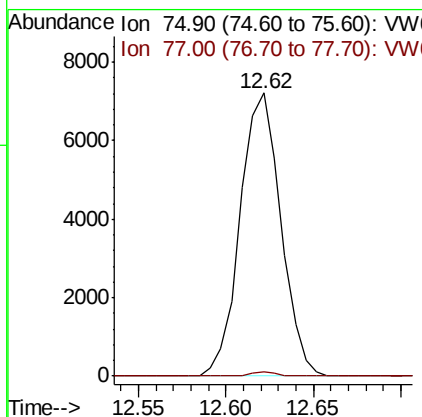
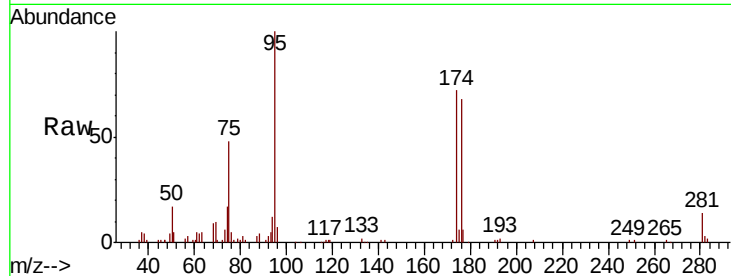
SB-09B

Tot Ion: 75 Resp: 11692

Ion Ratio Lower Upper

75 100

77 0.8 166.9 500.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 125.478 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

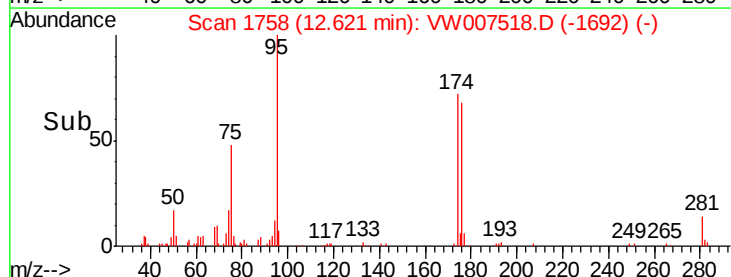
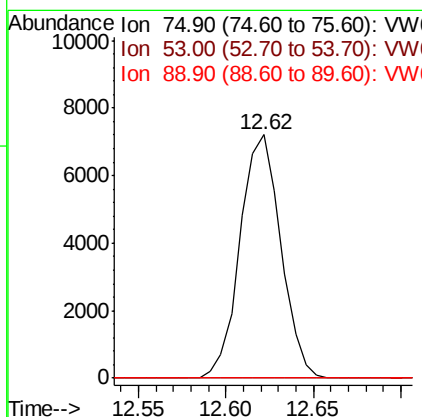
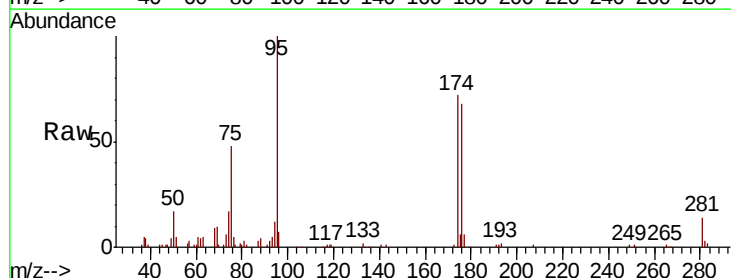
Tgt Ion: 75 Resp: 11692

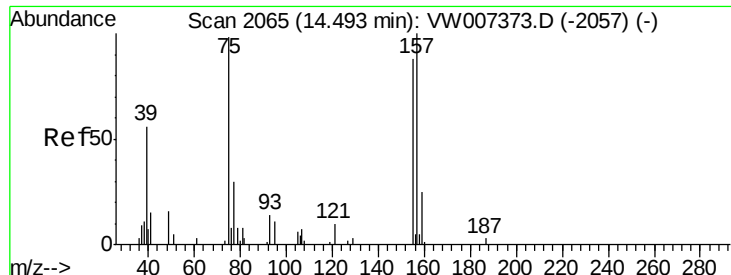
Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.837 ug/l

RT: 14.33 min Scan# 2039

Delta R.T. -0.16 min

Lab File: VW007518.D

Acq: 14 Dec 2018 06:18

Instrument :

MSVOA\_W

ClientSampleId :

SB-09B

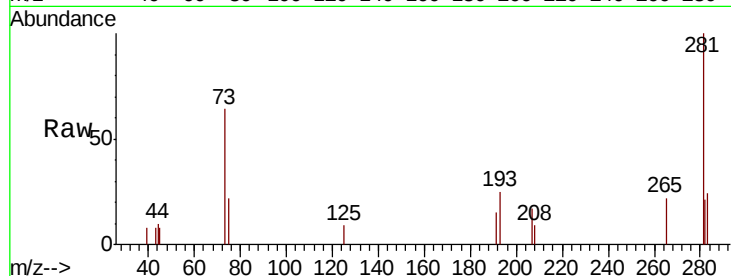
Tot Ion: 75 Resp: 275

Ion Ratio Lower Upper

75 100

155 0.0 40.8 122.2#

157 0.0 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

