

Data File : VW005096.D  
Acq On : 04 Sep 2018 22:21  
Operator : SY/AP  
Sample : J4712-04  
Misc : 5.99G/5ML/MSVOA\_W/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-09

Quant Time: Sep 05 04:16:13 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 327737   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 497013   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 523650   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 270667   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 146157   | 53.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.60% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 144478   | 50.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.60% |      |
| 50) Toluene-d8            | 10.33  | 98  | 529552   | 40.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 80.02%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 184706   | 39.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 79.16%  |      |

#### Target Compounds

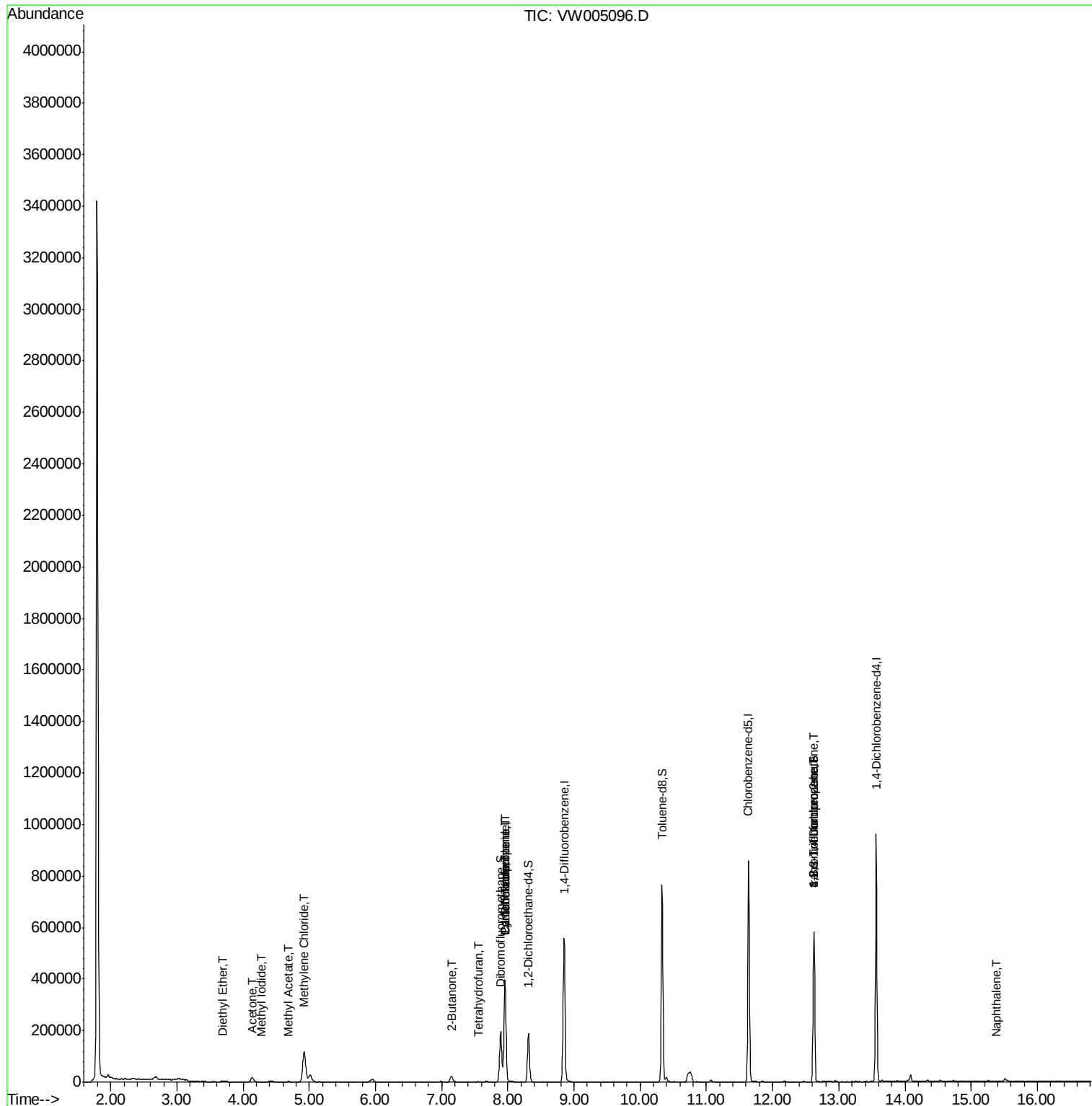
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.77  | 94  | 471   | Below Cal | #      | 50     |
| 8) Diethyl Ether               | 3.68  | 74  | 1760  | 1.160     | ug/l   | 87     |
| 10) Methyl Iodide              | 4.28  | 142 | 136   | 3.848     | ug/l # | 61     |
| 11) Tert butyl alcohol         | 5.18  | 59  | 805   | Below Cal | #      | 72     |
| 16) Acetone                    | 4.14  | 43  | 28437 | 52.193    | ug/l # | 88     |
| 18) Methyl Acetate             | 4.68  | 43  | 2877  | 1.795     | ug/l # | 64     |
| 20) Methylene Chloride         | 4.92  | 84  | 98721 | 24.865    | ug/l   | 99     |
| 25) 2-Butanone                 | 7.15  | 43  | 1183  | 1.252     | ug/l # | 76     |
| 29) Tetrahydrofuran            | 7.56  | 42  | 518   | 1.073     | ug/l # | 43     |
| 31) Cyclohexane                | 7.95  | 56  | 5874  | 1.101     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 20498 | 4.330     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 28041 | 6.230     | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 84187 | 41.437    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 84187 | 99.734    | ug/l # | 15     |
| 95) Naphthalene                | 15.38 | 128 | 826   | 4.057     | ug/l # | 87     |

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

Instrument :

MSVOA\_W

ClientSampleId :

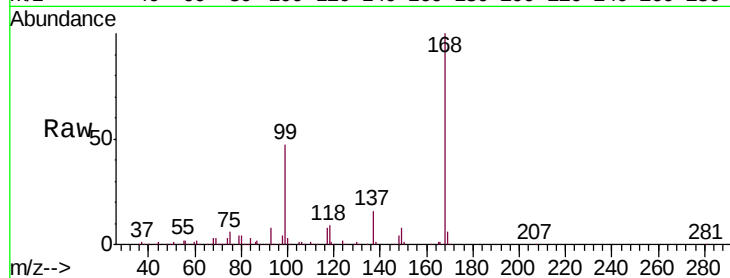
SB-09

Tgt Ion:168 Resp: 327737

Ion Ratio Lower Upper

168 100

99 46.8 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

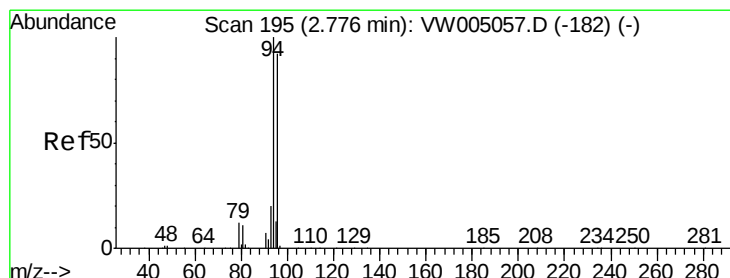
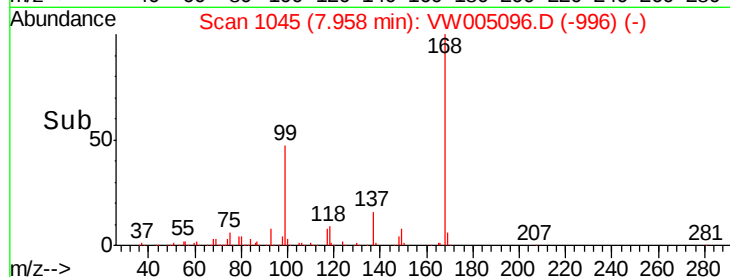
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VW005096.D

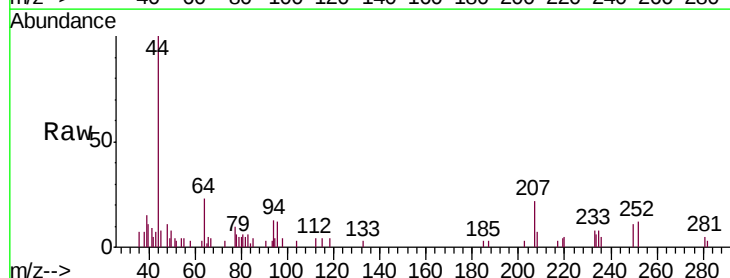
Acq: 04 Sep 2018 22:21

Tgt Ion: 94 Resp: 471

Ion Ratio Lower Upper

94 100

96 43.5 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

500

400

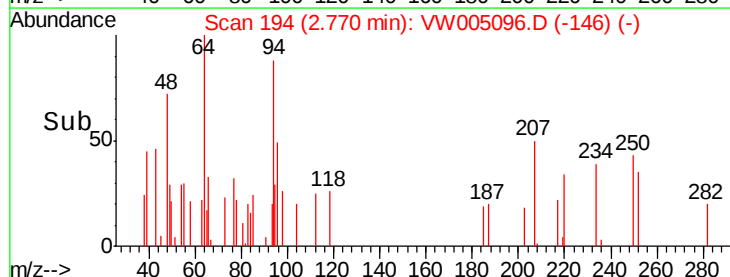
300

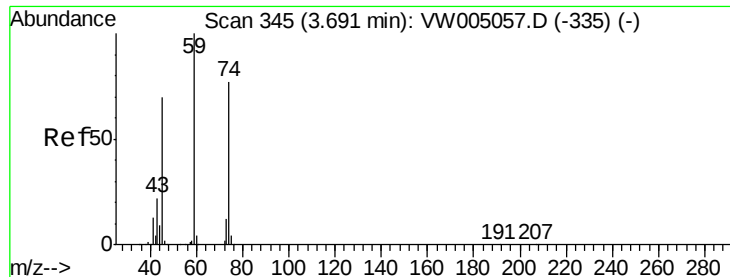
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.160 ug/l

RT: 3.68 min Scan# 344

Delta R.T. -0.01 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

Instrument :

MSVOA\_W

ClientSampled :

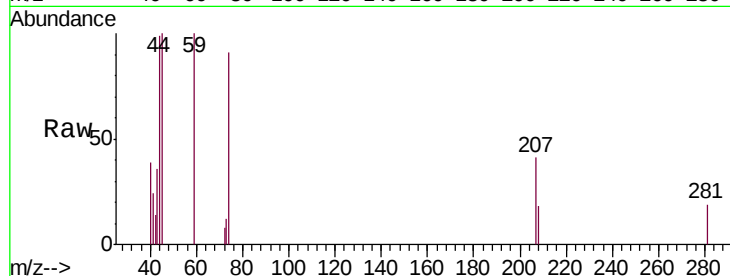
SB-09

Tgt Ion: 74 Resp: 1760

Ion Ratio Lower Upper

74 100

45 104.0 46.0 137.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

600

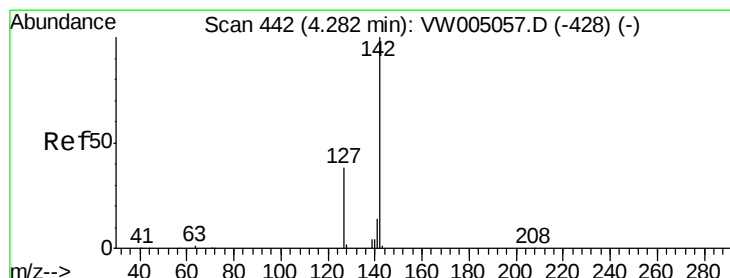
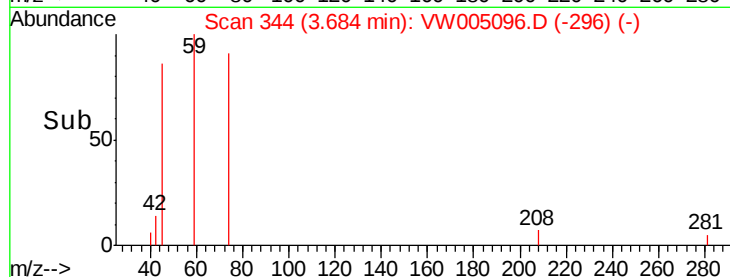
400

200

0

3.60 3.65 3.70 3.75

Time-->



#10

Methyl Iodide

Concen: 3.848 ug/l

RT: 4.28 min Scan# 441

Delta R.T. -0.01 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

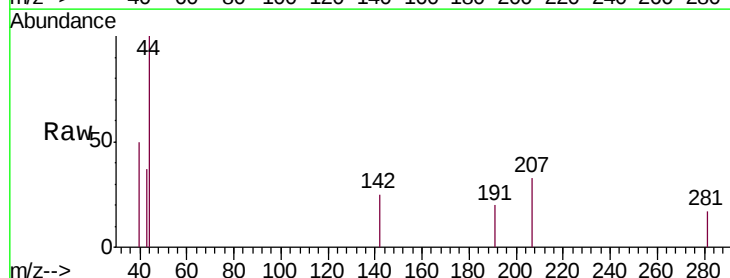
Tgt Ion: 142 Resp: 136

Ion Ratio Lower Upper

142 100

127 14.0 30.8 46.2#

141 0.0 11.6 17.4#



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

150

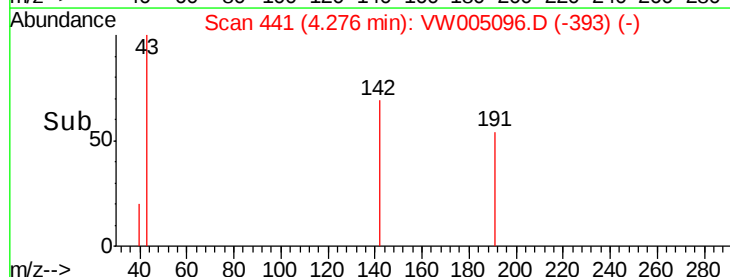
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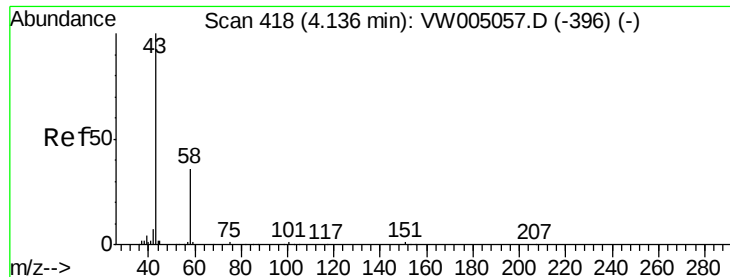
50

0

4.24 4.26 4.28 4.30

Time-->





#16

Acetone

Concen: 52.193 ug/l

RT: 4.14 min Scan# 418

Delta R.T. -0.00 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

Instrument :

MSVOA\_W

ClientSampled :

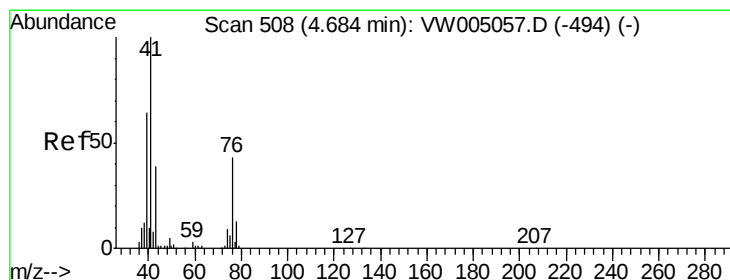
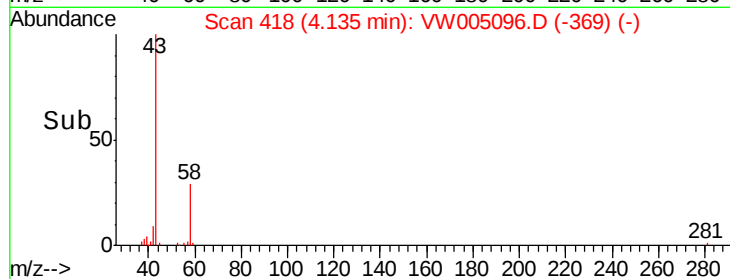
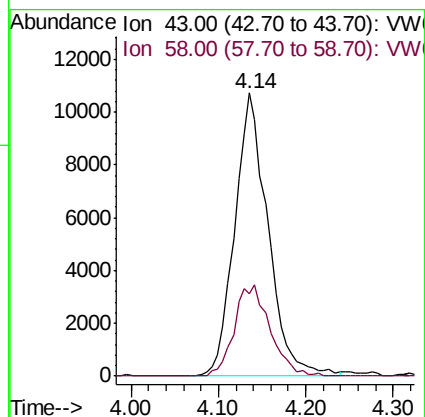
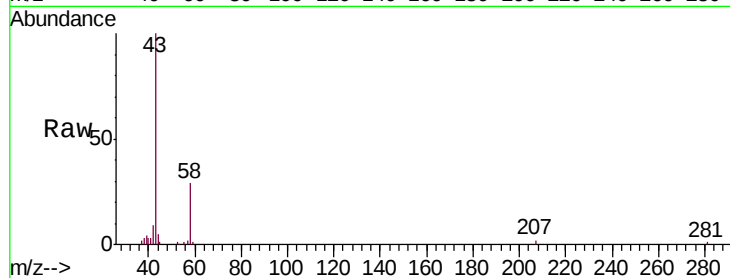
SB-09

Tgt Ion: 43 Resp: 28437

Ion Ratio Lower Upper

43 100

58 28.9 29.0 43.6#



#18

Methyl Acetate

Concen: 1.795 ug/l

RT: 4.68 min Scan# 507

Delta R.T. -0.01 min

Lab File: VW005096.D

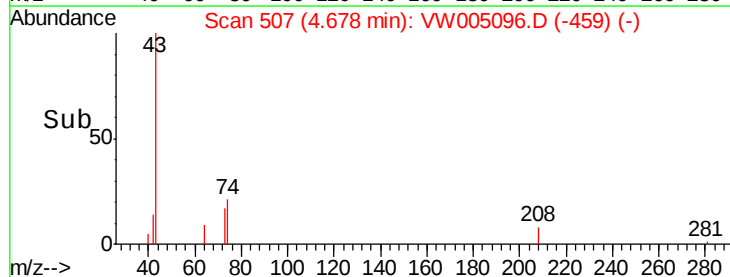
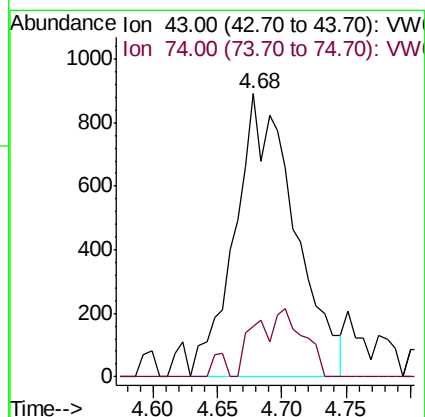
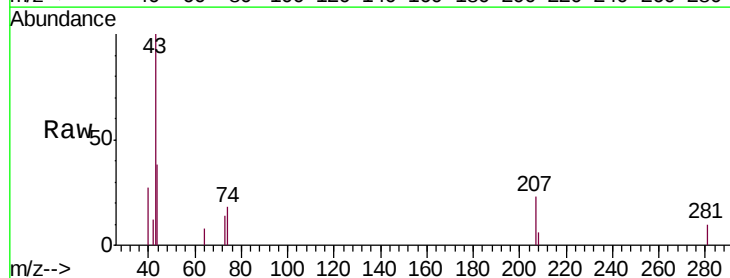
Acq: 04 Sep 2018 22:21

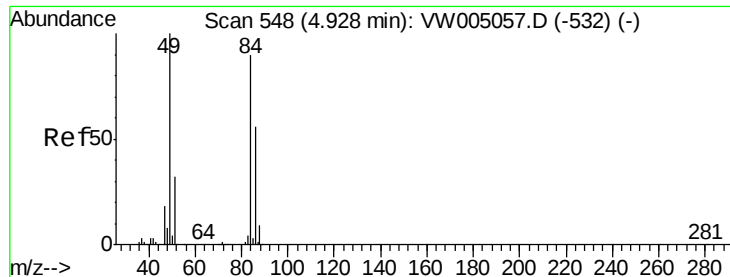
Tgt Ion: 43 Resp: 2877

Ion Ratio Lower Upper

43 100

74 7.4 20.7 31.1#

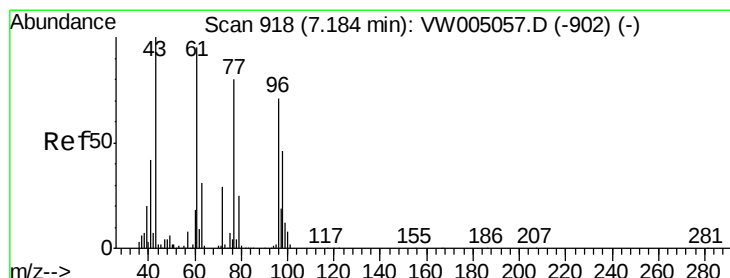
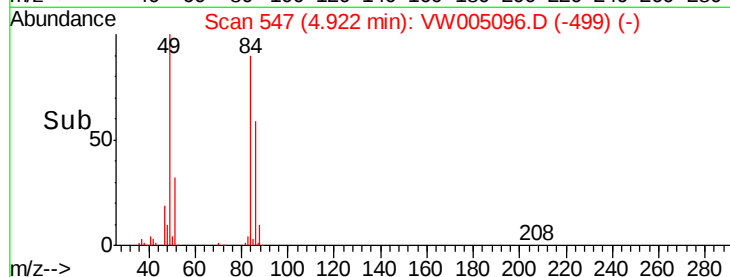
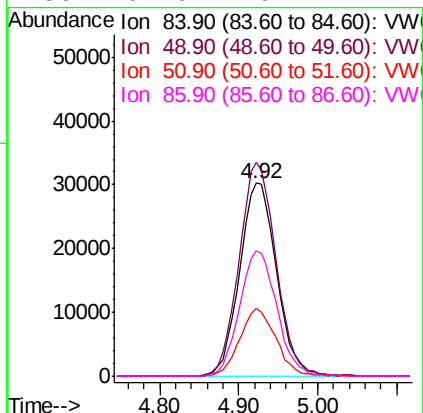
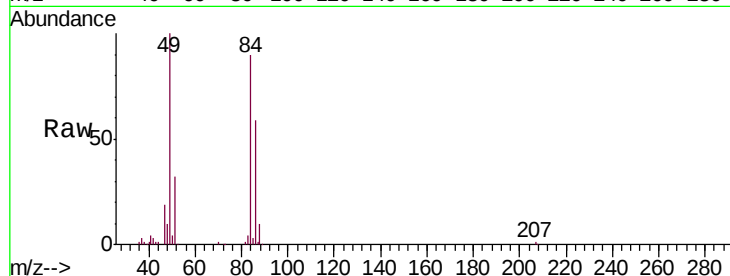




#20  
Methylene Chloride  
Concen: 24.865 ug/l  
RT: 4.92 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

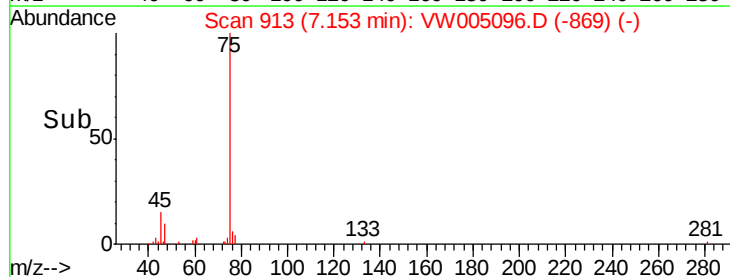
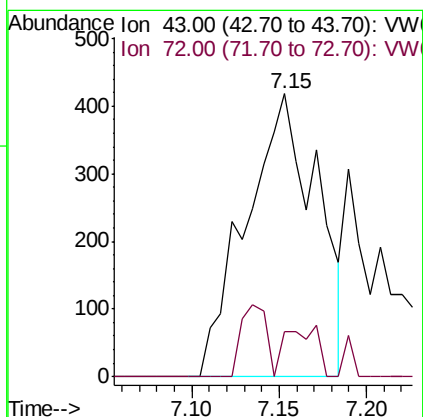
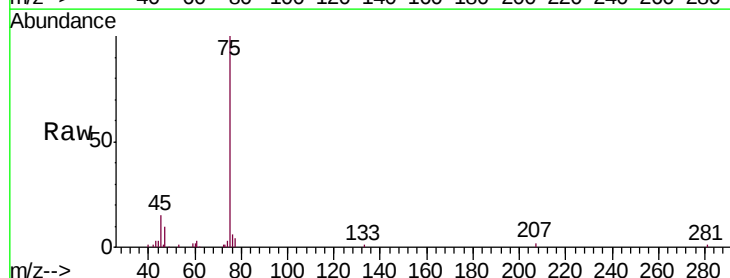
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-09

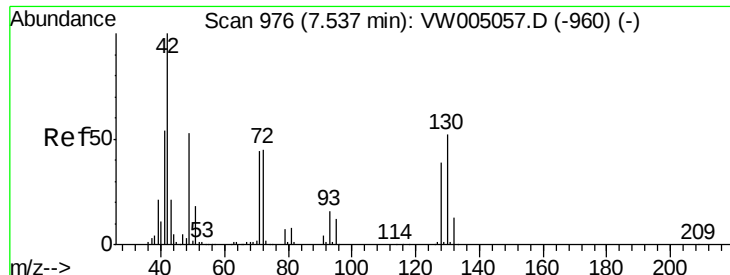
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 98721 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 110.8 | 88.7  | 133.1 |
| 51       | 35.2  | 28.6  | 42.8  |
| 86       | 64.9  | 49.4  | 74.2  |



#25  
2-Butanone  
Concen: 1.252 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.03 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1183  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 16.0  | 23.1  | 34.7# |

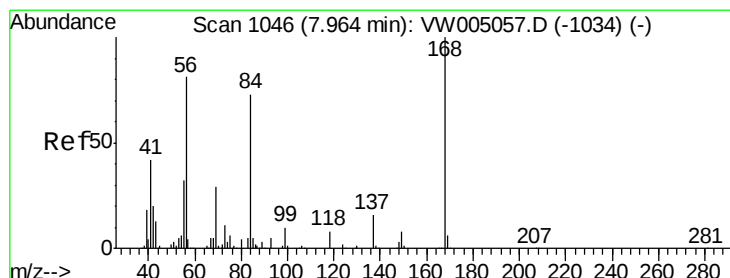
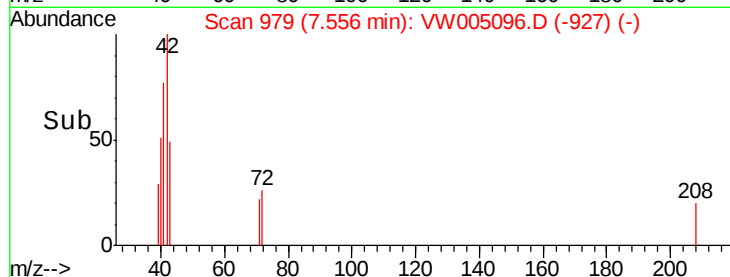
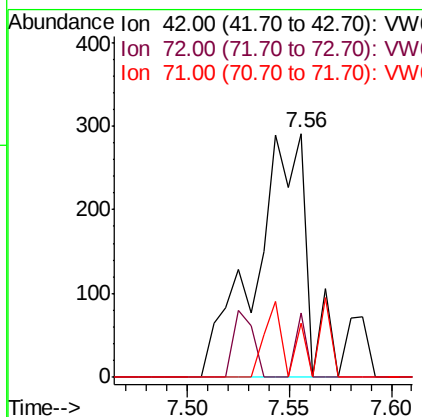
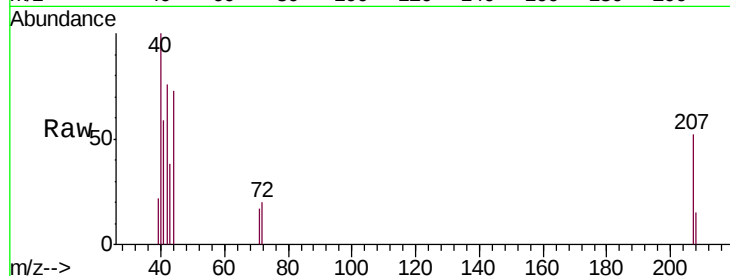




#29  
Tetrahydrofuran  
Concen: 1.073 ug/l  
RT: 7.56 min Scan# 979  
Delta R.T. 0.02 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

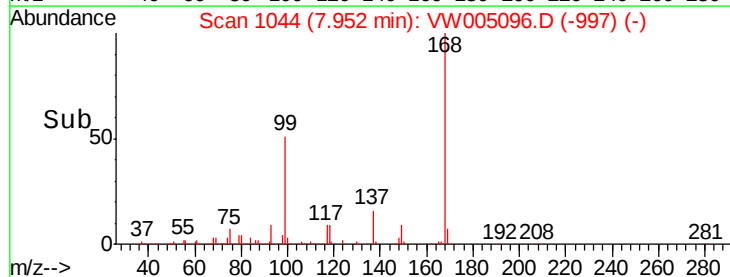
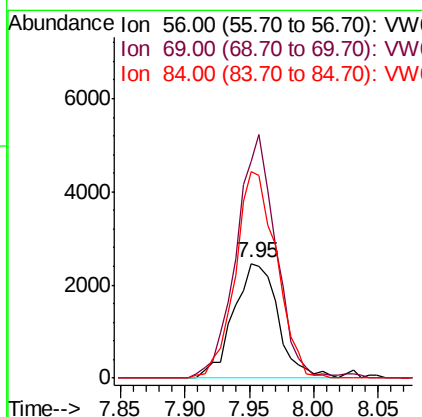
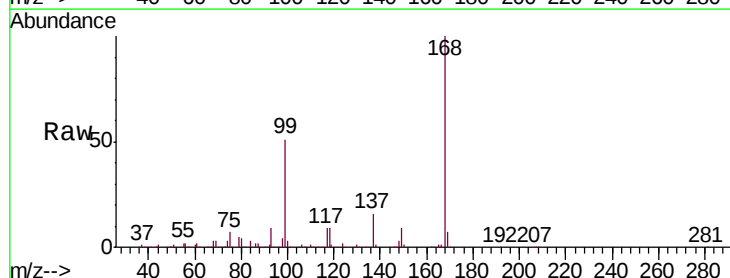
Instrument :  
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ClientSampleId :  
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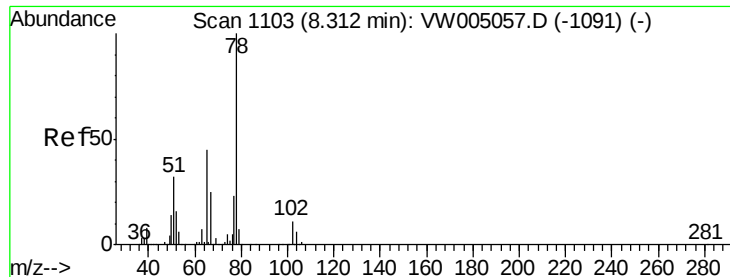
Tgt Ion: 42 Resp: 518  
Ion Ratio Lower Upper  
42 100  
72 5.4 37.0 55.4#  
71 9.8 35.0 52.6#



#31  
Cyclohexane  
Concen: 1.101 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

Tgt Ion: 56 Resp: 5874  
Ion Ratio Lower Upper  
56 100  
69 189.8 28.2 42.2#  
84 179.9 71.8 107.8#

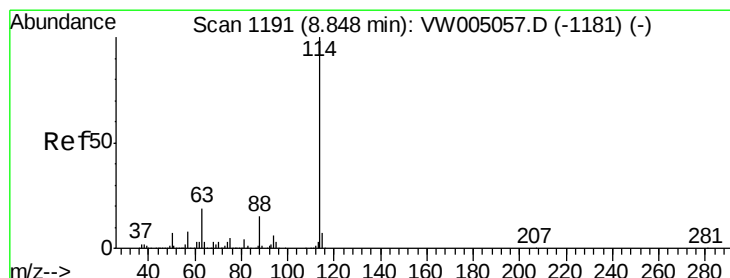
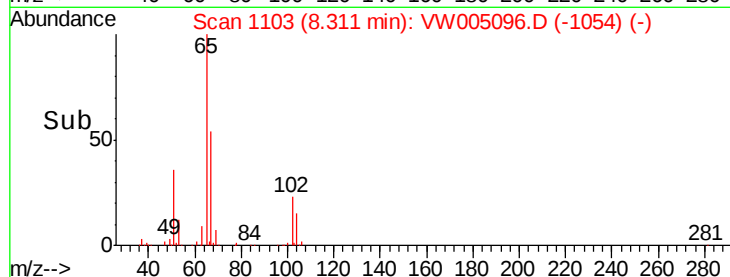
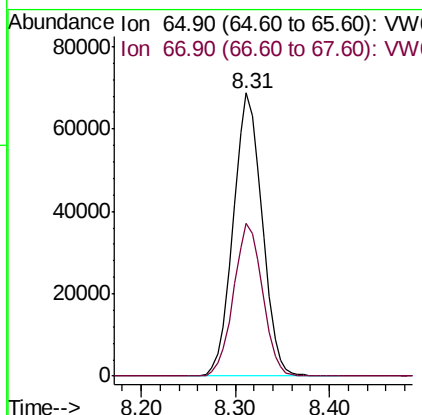
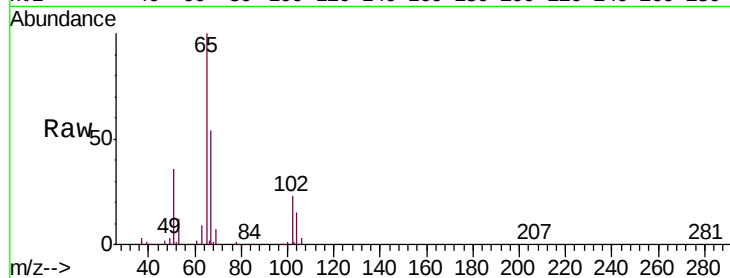




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.798 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW005096.D  
 Acq: 04 Sep 2018 22:21

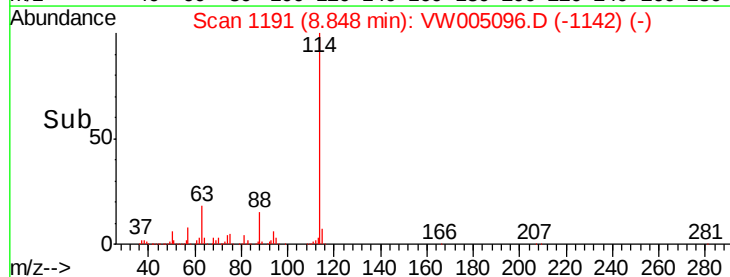
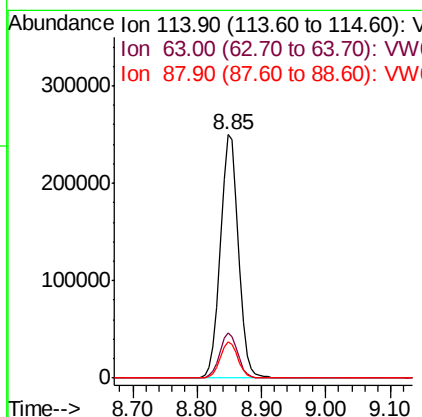
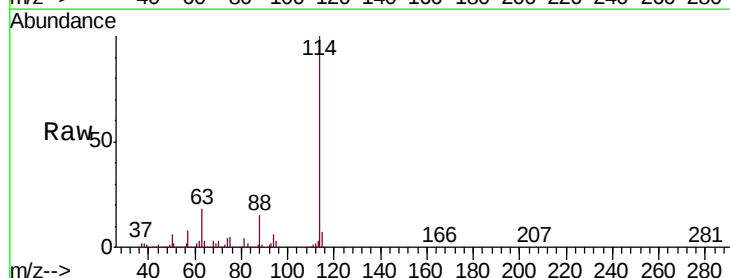
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-09

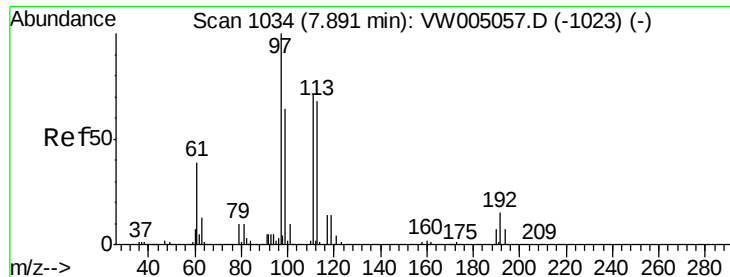
Tgt Ion: 65 Resp: 146157  
 Ion Ratio Lower Upper  
 65 100  
 67 54.1 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW005096.D  
 Acq: 04 Sep 2018 22:21

Tgt Ion: 114 Resp: 497013  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 38.0  
 88 15.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.303 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

Instrument :

MSVOA\_W

ClientSampleId :

SB-09

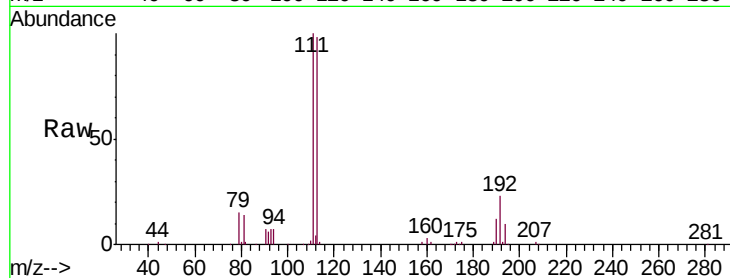
Tgt Ion:113 Resp: 144478

Ion Ratio Lower Upper

113 100

111 100.6 82.2 123.2

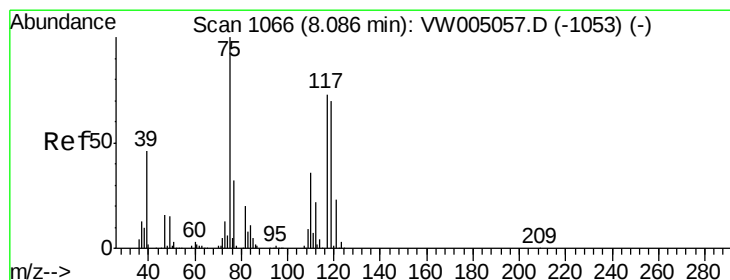
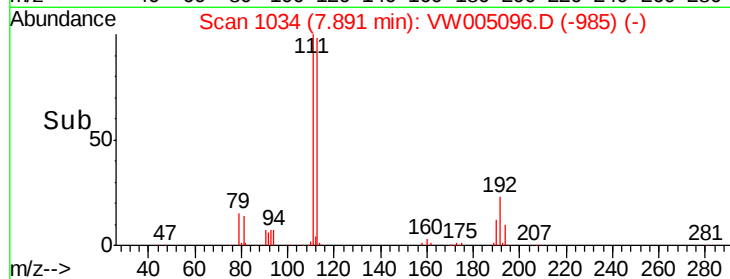
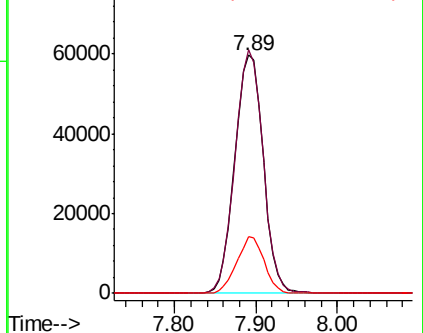
192 22.8 18.1 27.1



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: 4.330 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

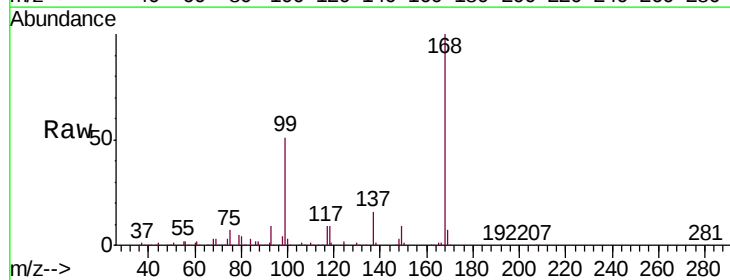
Tgt Ion: 75 Resp: 20498

Ion Ratio Lower Upper

75 100

110 8.7 18.9 56.7#

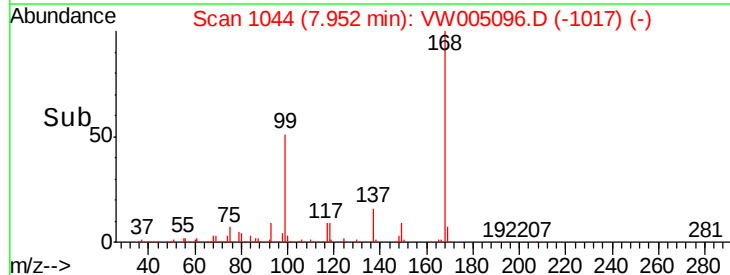
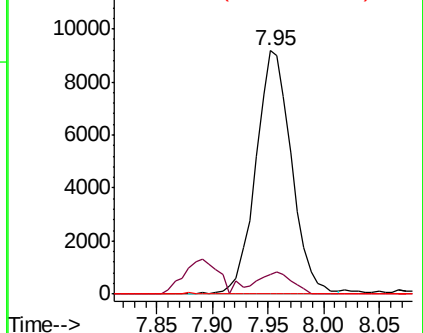
77 0.0 25.5 38.3#

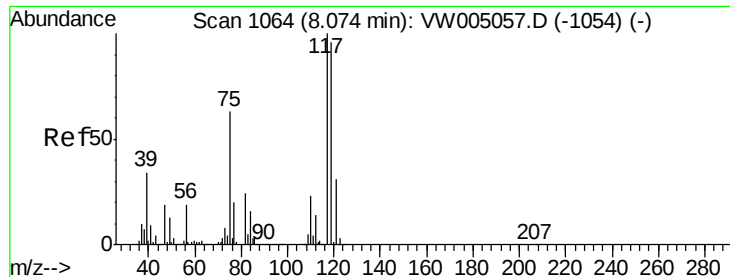


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.230 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW005096.D

Acq: 04 Sep 2018 22:21

Instrument :

MSVOA\_W

ClientSampleId :

SB-09

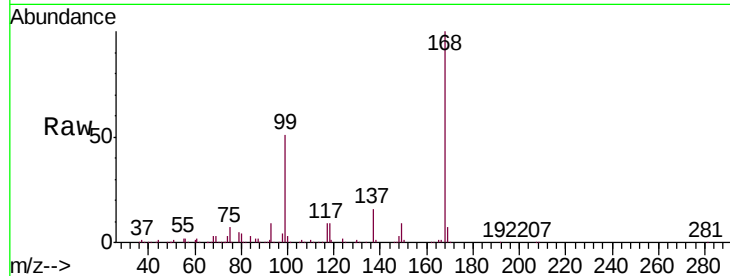
Tgt Ion: 117 Resp: 28041

Ion Ratio Lower Upper

117 100

119 7.6 76.6 115.0#

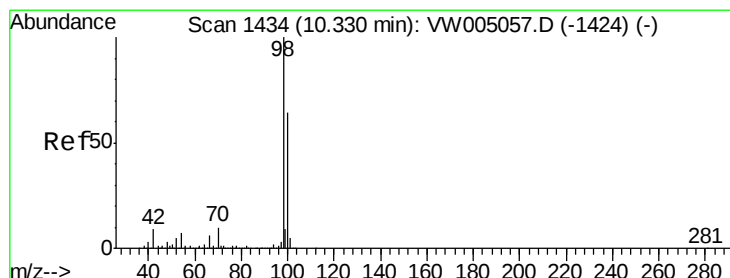
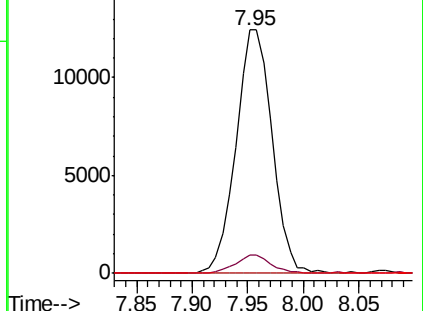
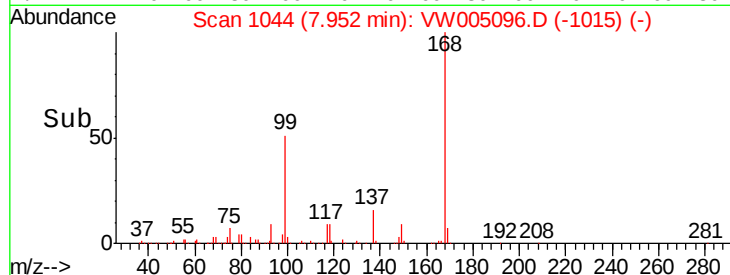
121 0.0 24.8 37.2#



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: 40.013 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW005096.D

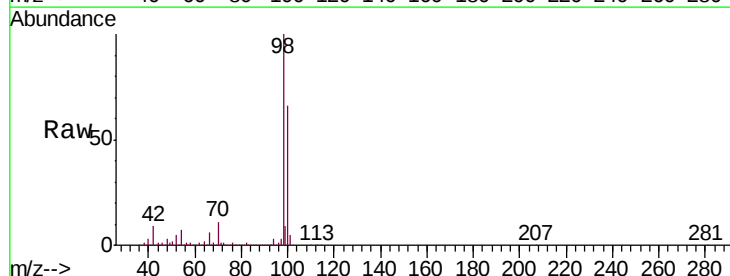
Acq: 04 Sep 2018 22:21

Tgt Ion: 98 Resp: 529552

Ion Ratio Lower Upper

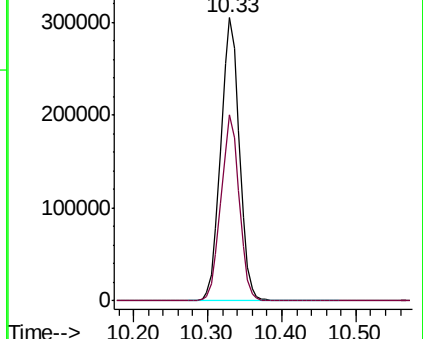
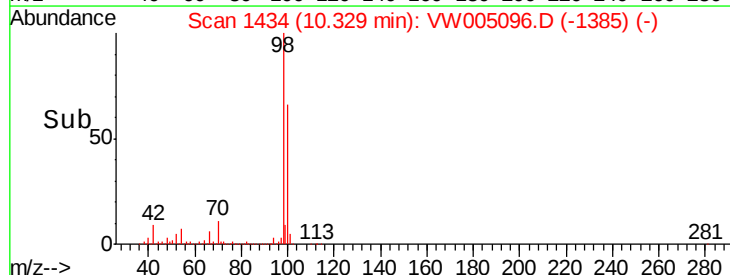
98 100

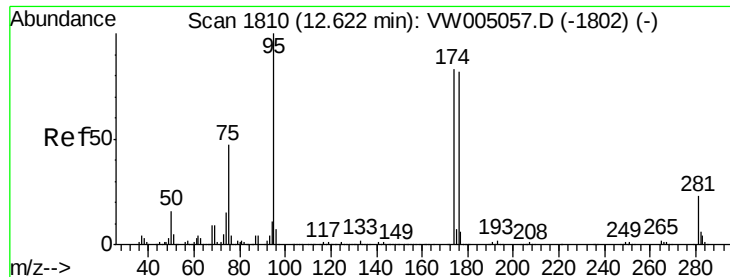
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

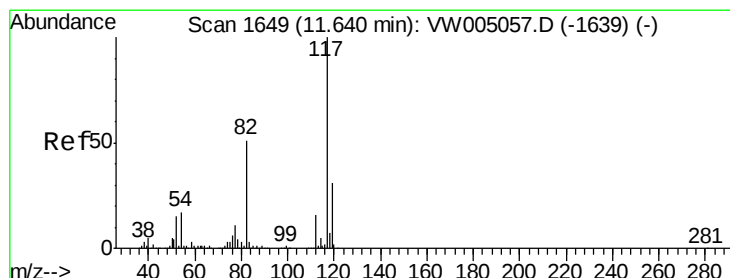
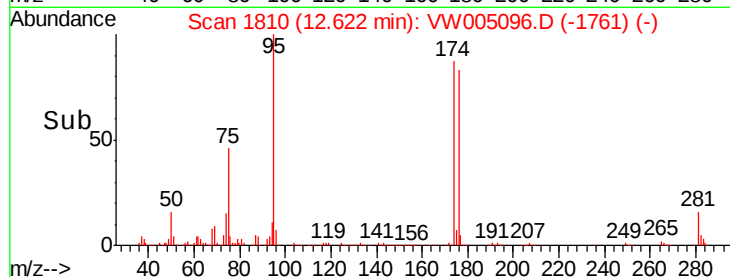
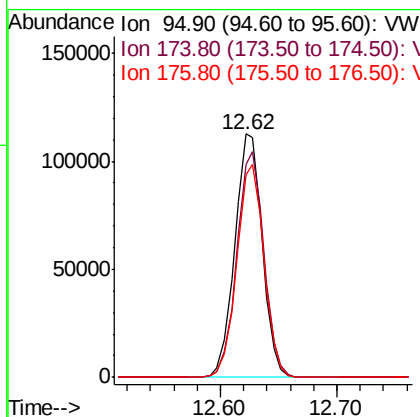
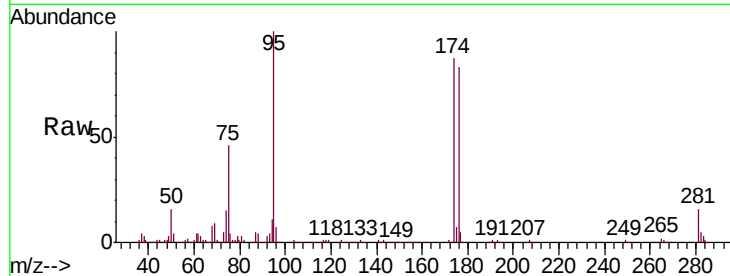




#62  
4-Bromofluorobenzene  
Concen: 39.581 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

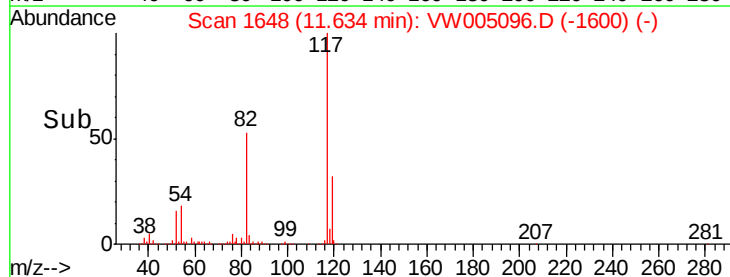
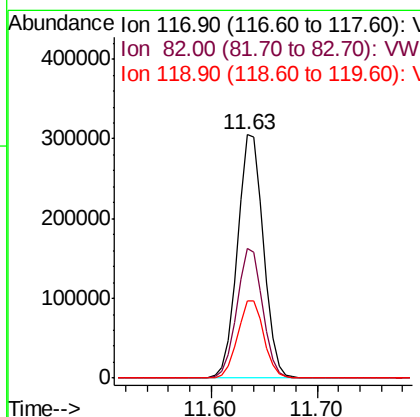
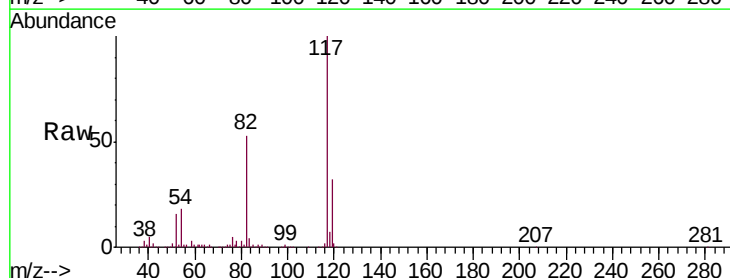
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-09

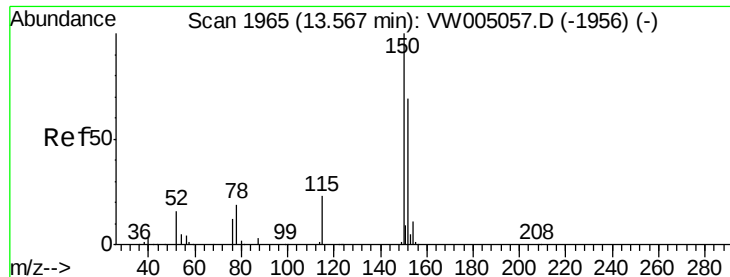
Tgt Ion: 95 Resp: 184706  
Ion Ratio Lower Upper  
95 100  
174 91.7 0.0 173.4  
176 86.5 0.0 167.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

Tgt Ion: 117 Resp: 523650  
Ion Ratio Lower Upper  
117 100  
82 53.4 40.9 61.3  
119 31.9 24.9 37.3



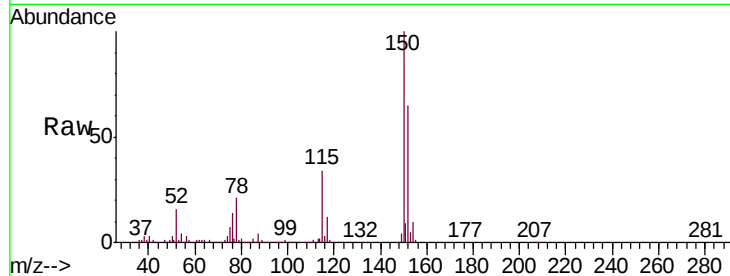


#72

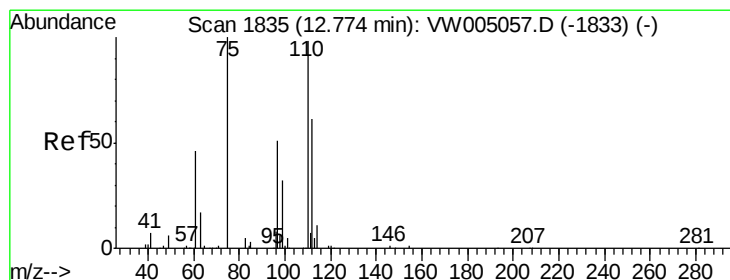
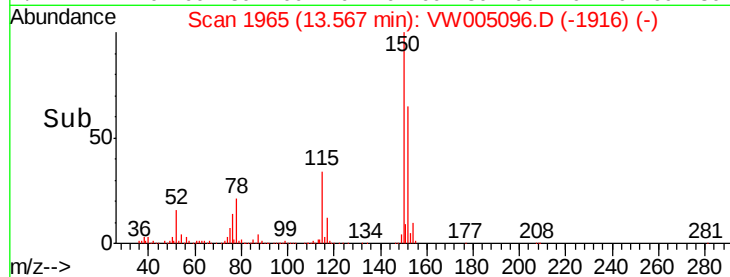
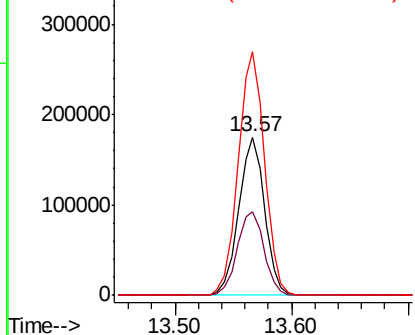
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.9  | 27.8  | 83.4  |
| 150     | 156.9 | 0.0   | 351.4 |



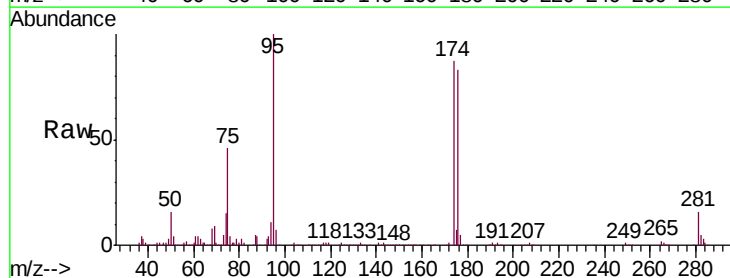
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



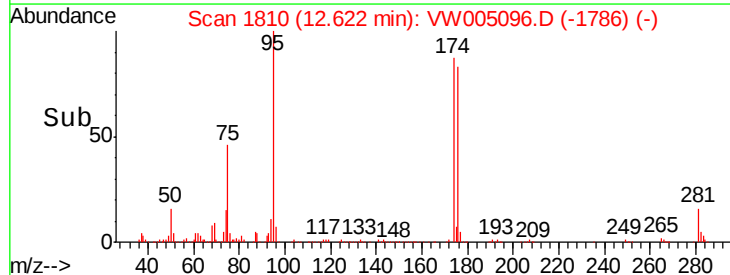
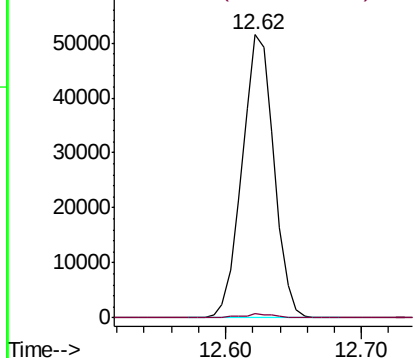
#76

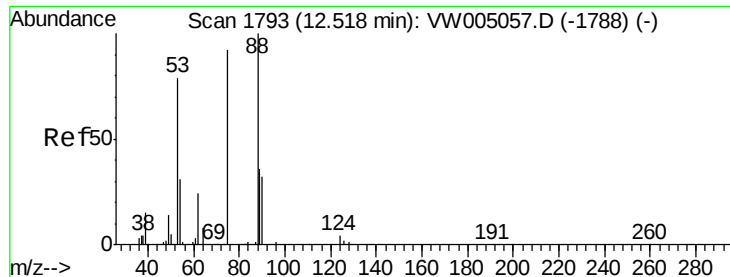
1,2,3-Trichloropropane  
Concen: 41.437 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.15 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.4   | 0.0   | 0.0#  |



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW

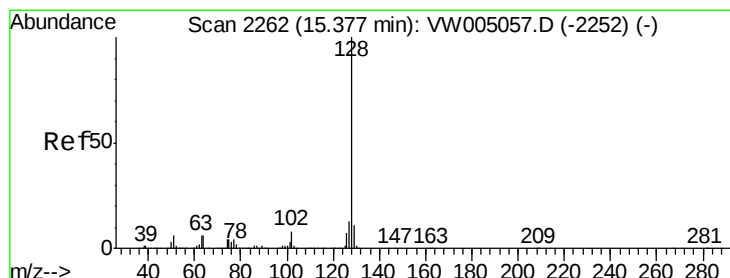
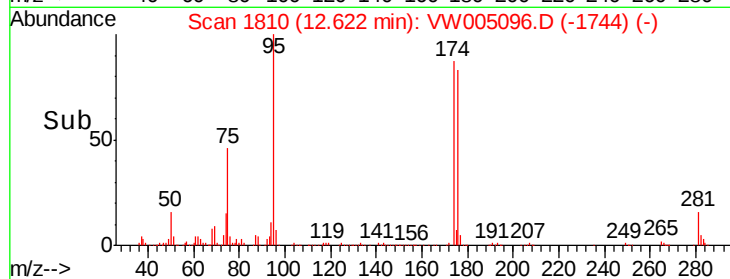
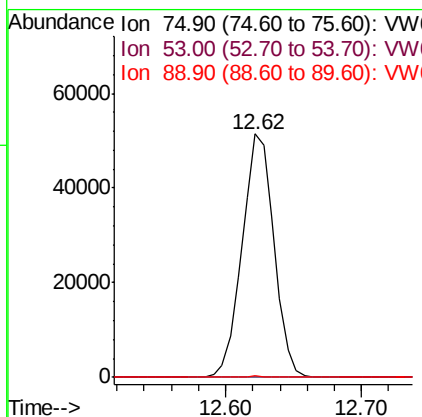
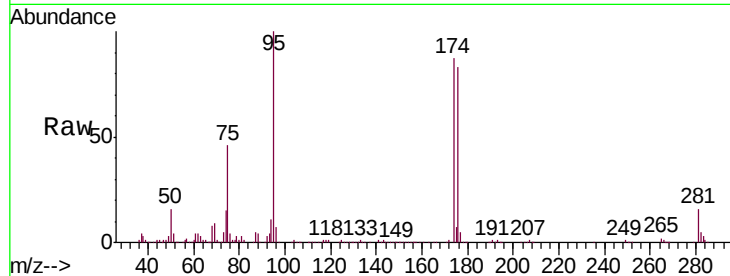




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.734 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.10 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-09

Tgt Ion: 75 Resp: 84187  
Ion Ratio Lower Upper  
75 100  
53 0.2 69.8 104.8#  
89 0.2 36.0 54.0#



#95  
Naphthalene  
Concen: 4.057 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW005096.D  
Acq: 04 Sep 2018 22:21

Tgt Ion: 128 Resp: 826  
Ion Ratio Lower Upper  
128 100  
127 10.5 10.4 15.6  
129 3.0 8.7 13.1#

