

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110318\  
 Data File : VW006586.D  
 Acq On : 02 Nov 2018 04:36  
 Operator : SY/AP  
 Sample : J5205-07RE  
 Misc : 5.94G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TR-04-103018-ARE

Quant Time: Nov 02 07:59:58 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  | 215125   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 343780   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 247750   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 94073    | 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   | 94771    | 51.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.50% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 90477    | 41.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.88%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 240488   | 29.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 58.56%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 77349    | 25.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 51.96%  |          |

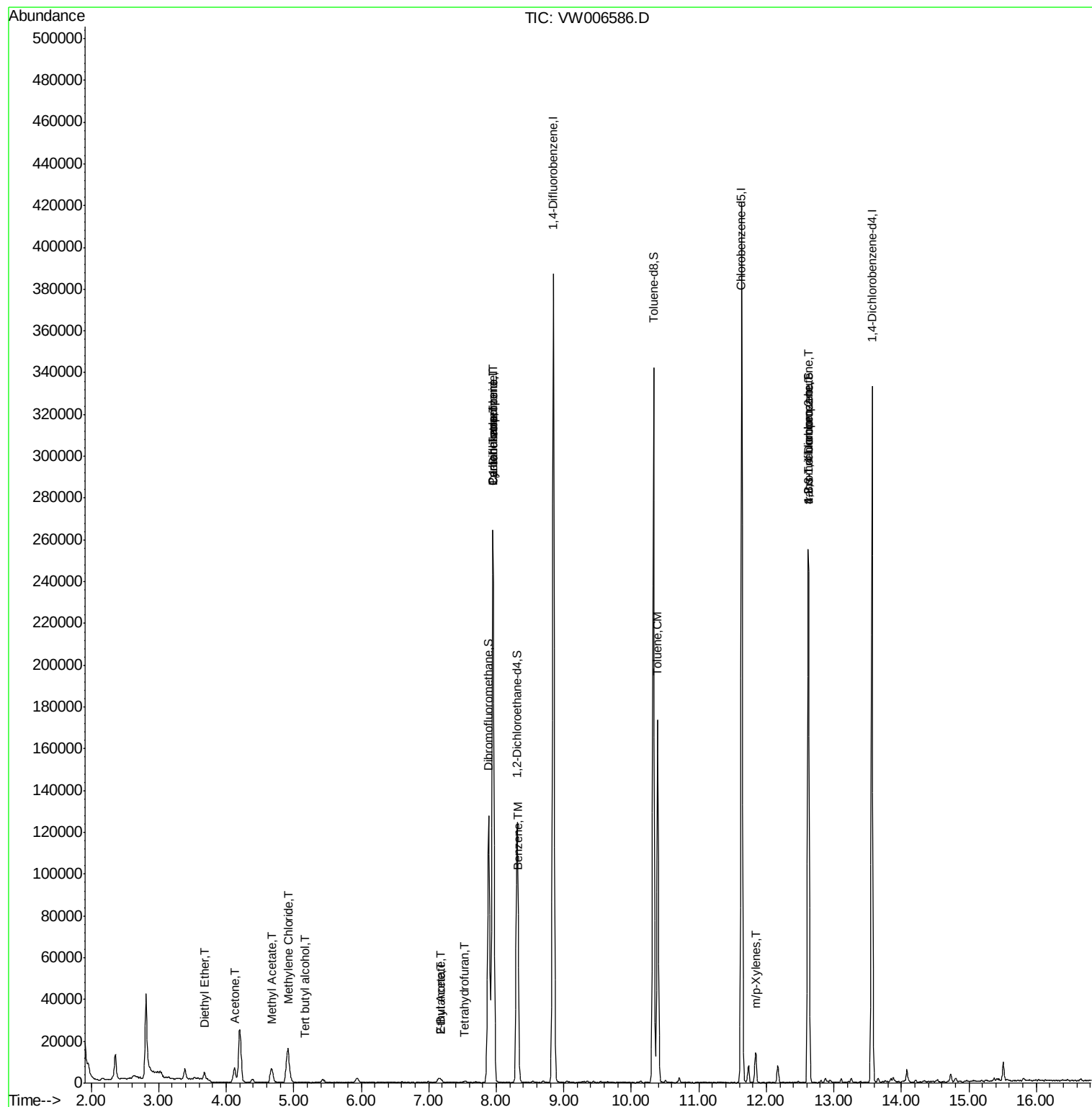
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 2721     | 2.926   | ug/l   | 92     |
| 11) Tert butyl alcohol         | 5.17  | 59   | 430      | 4.316   | ug/l # | 84     |
| 16) Acetone                    | 4.12  | 43   | 12077    | 40.452  | ug/l   | 97     |
| 18) Methyl Acetate             | 4.68  | 43   | 12578    | 14.651  | ug/l   | 98     |
| 20) Methylene Chloride         | 4.92  | 84   | 13891    | 1.370   | ug/l   | 97     |
| 25) 2-Butanone                 | 7.18  | 43   | 1907     | 4.476   | ug/l   | 93     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 396      | 1.478   | ug/l # | 77     |
| 31) Cyclohexane                | 7.95  | 56   | 3713     | 1.261   | ug/l # | 35     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 13417    | 4.438   | ug/l # | 47     |
| 37) Ethyl Acetate              | 7.18  | 43   | 1907     | 1.820   | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 18319    | 5.799   | ug/l # | 17     |
| 40) Benzene                    | 8.33  | 78   | 12098    | 1.409   | ug/l   | 96     |
| 52) Toluene                    | 10.39 | 92   | 72818    | 12.643  | ug/l   | 95     |
| 68) m/p-Xylenes                | 11.84 | 106  | 4498     | 1.292   | ug/l   | 94     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 39331    | 53.586  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 39331    | 134.048 | ug/l # | 11     |

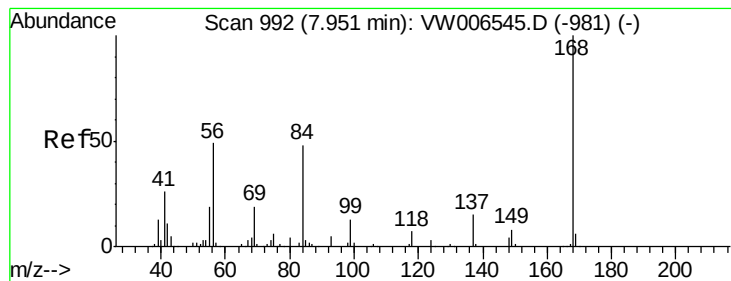
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 41 Sample Multiplier: 1

Instrument :  
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Quant Time: Nov 02 07:59:58 2018  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 01 03:48:08 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: VW006586.D

Acq: 02 Nov 2018 04:36

Instrument :

MSVOA\_W

ClientSampleId :

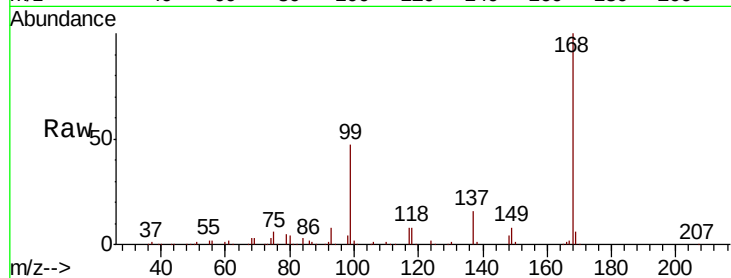
TR-04-103018-ARE

Tgt Ion:168 Resp: 215125

Ion Ratio Lower Upper

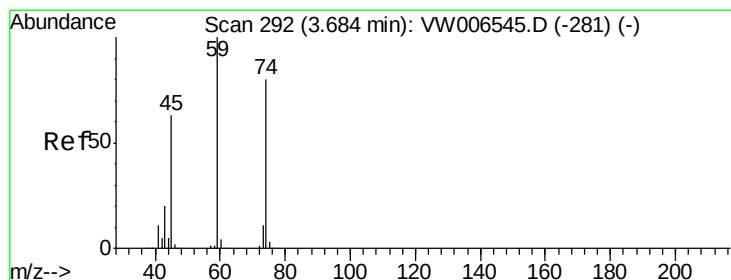
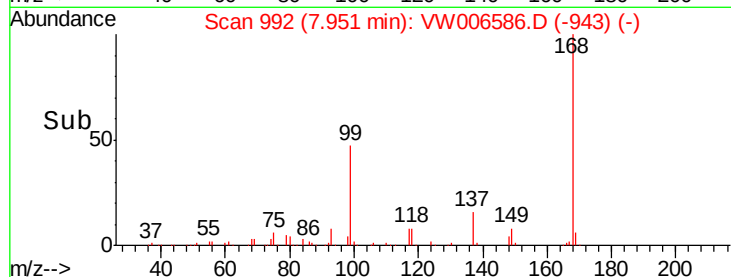
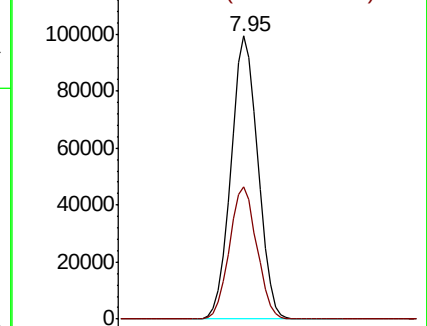
168 100

99 46.9 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.926 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW006586.D

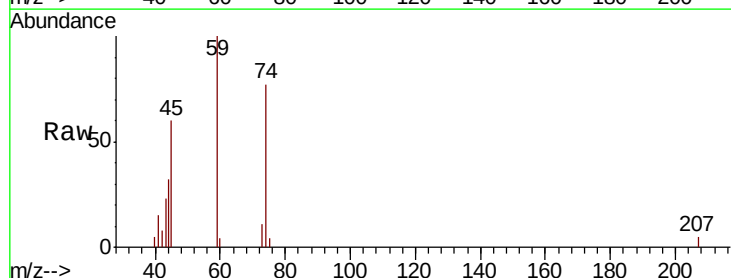
Acq: 02 Nov 2018 04:36

Tgt Ion: 74 Resp: 2721

Ion Ratio Lower Upper

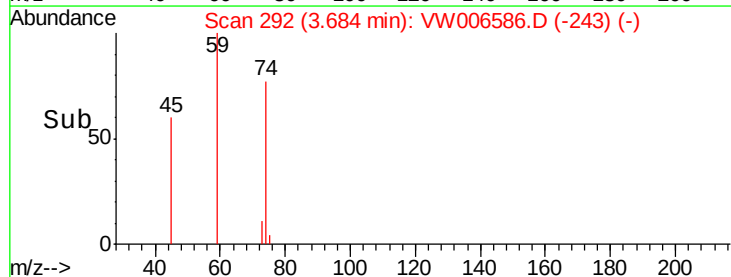
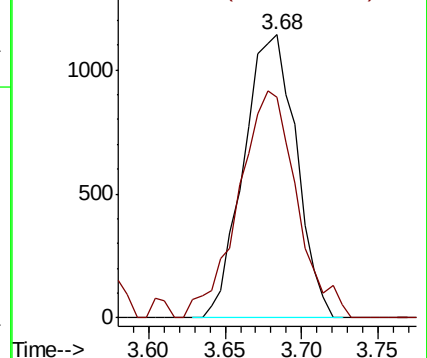
74 100

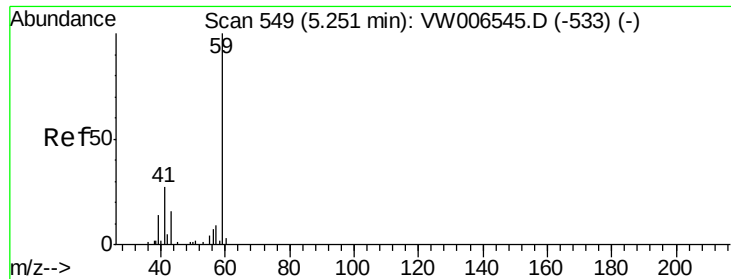
45 89.3 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

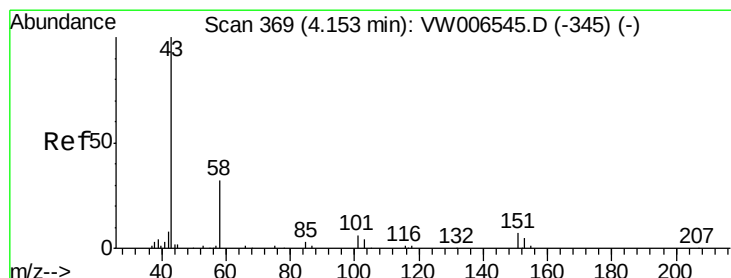
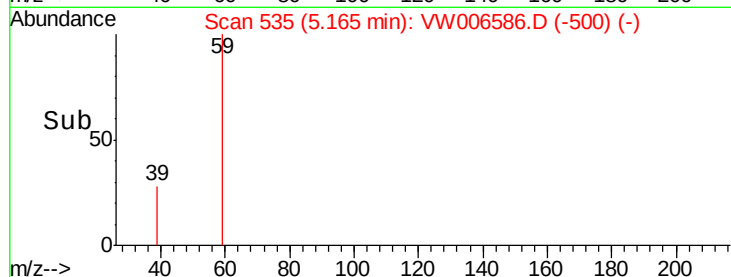
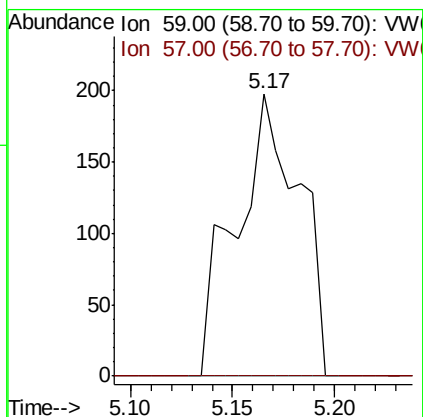
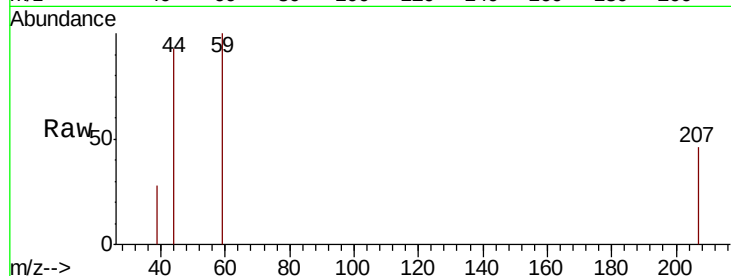




#11  
Tert butyl alcohol  
Concen: 4.316 ug/l  
RT: 5.17 min Scan# 535  
Delta R.T. -0.09 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

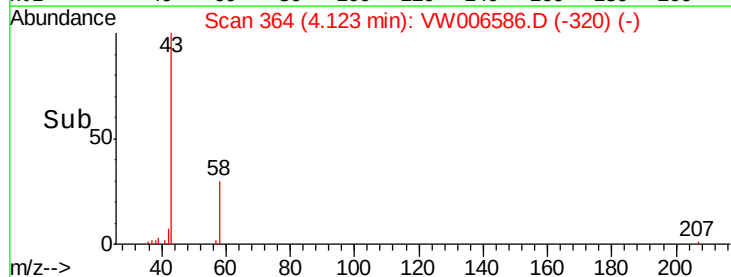
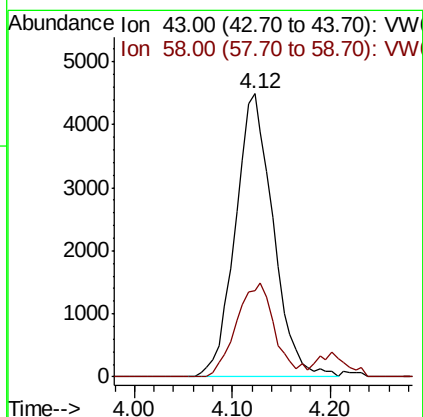
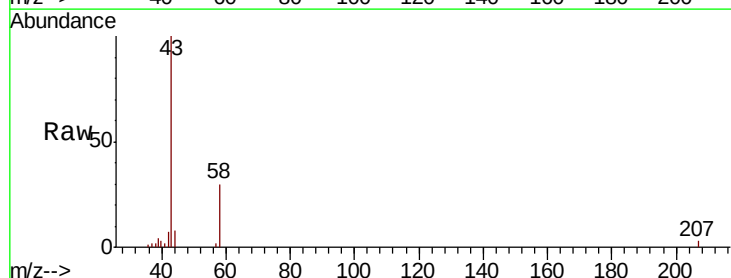
Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-04-103018-ARE

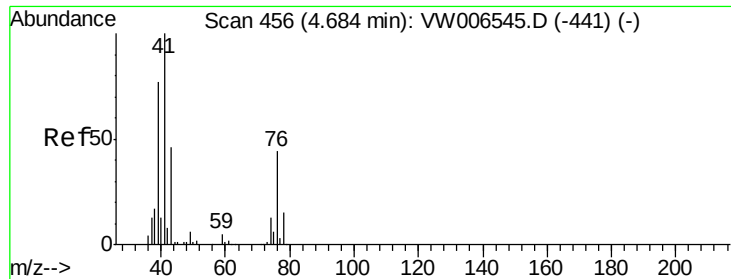
Tgt Ion: 59 Resp: 430  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.3 6.5#



#16  
Acetone  
Concen: 40.452 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. -0.03 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

Tgt Ion: 43 Resp: 12077  
Ion Ratio Lower Upper  
43 100  
58 30.3 25.8 38.8

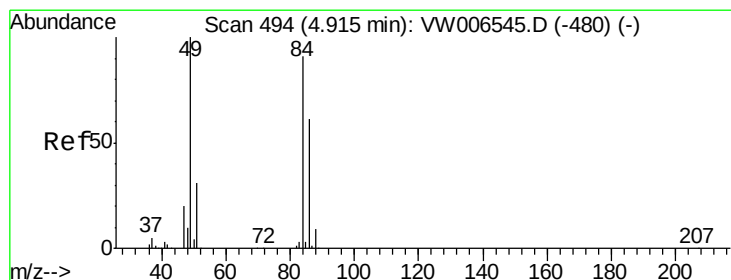
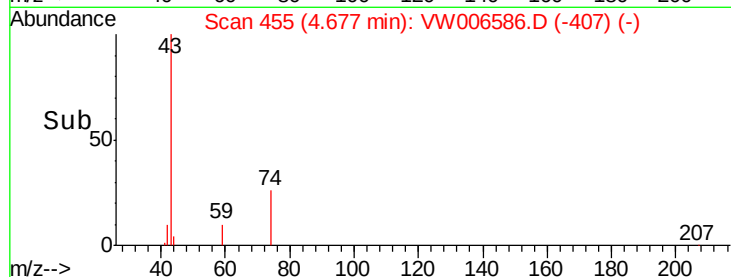
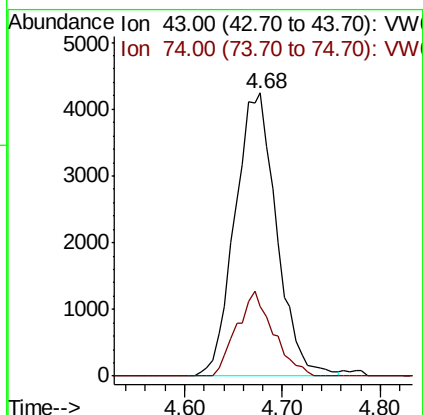
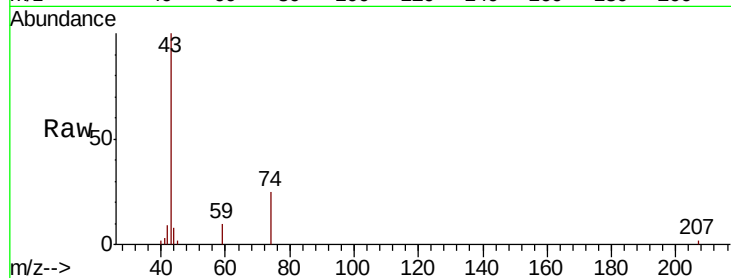




#18  
Methyl Acetate  
Concen: 14.651 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. -0.01 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

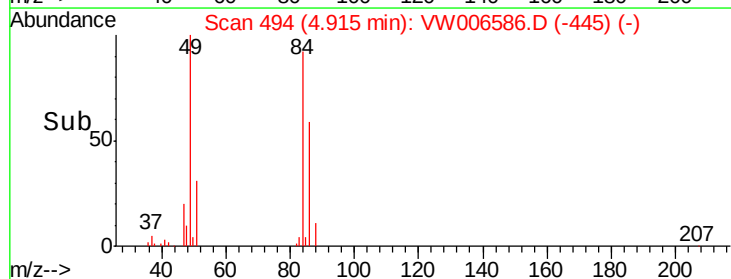
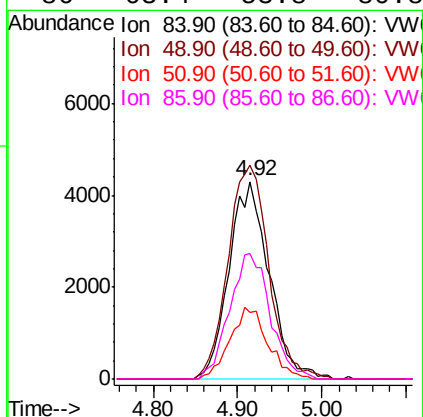
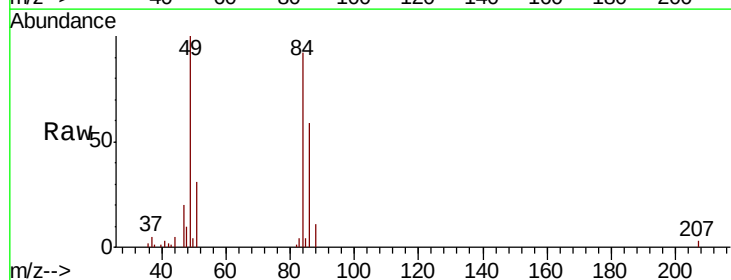
Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-04-103018-ARE

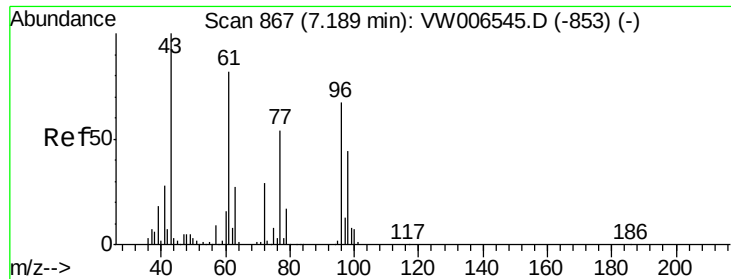
Tgt Ion: 43 Resp: 12578  
Ion Ratio Lower Upper  
43 100  
74 26.6 21.9 32.9



#20  
Methylene Chloride  
Concen: 1.370 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

Tgt Ion: 84 Resp: 13891  
Ion Ratio Lower Upper  
84 100  
49 108.2 88.2 132.4  
51 33.7 27.0 40.6  
86 63.4 53.8 80.8





#25

2-Butanone

Concen: 4.476 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.01 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

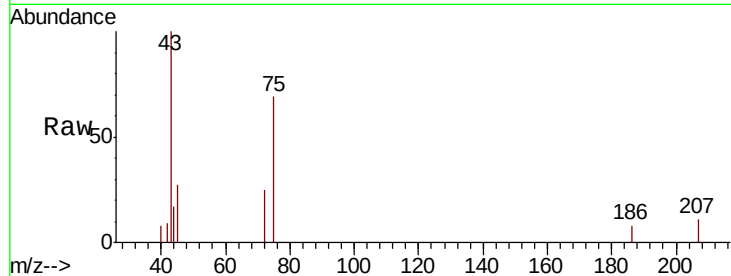
Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-04-103018-ARE

Tgt Ion: 43 Resp: 1907

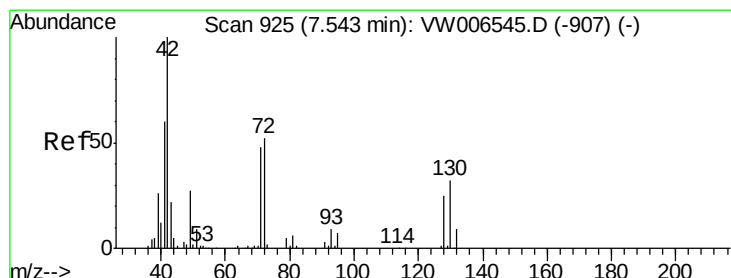
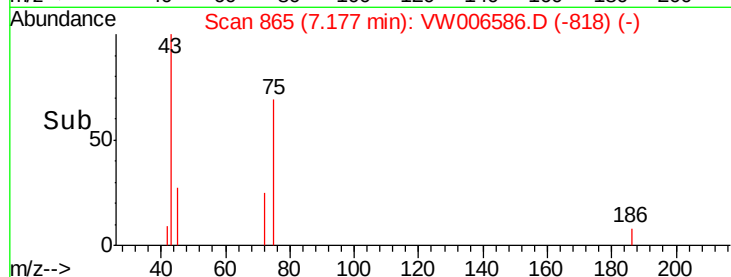
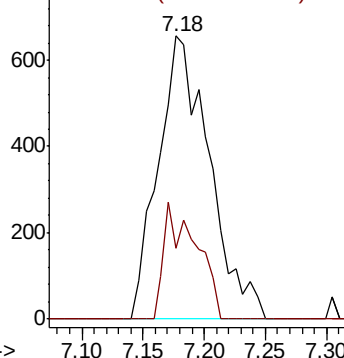
Ion Ratio Lower Upper

43 100

72 25.0 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: 1.478 ug/l

RT: 7.54 min Scan# 924

Delta R.T. -0.01 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

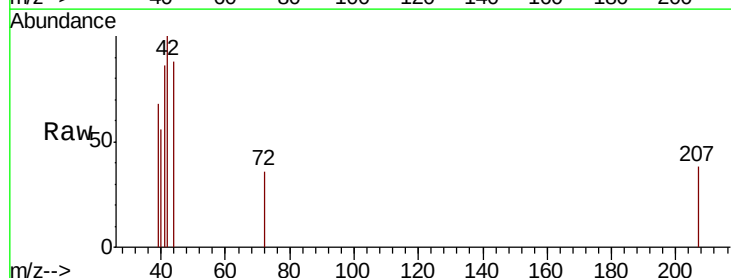
Tgt Ion: 42 Resp: 396

Ion Ratio Lower Upper

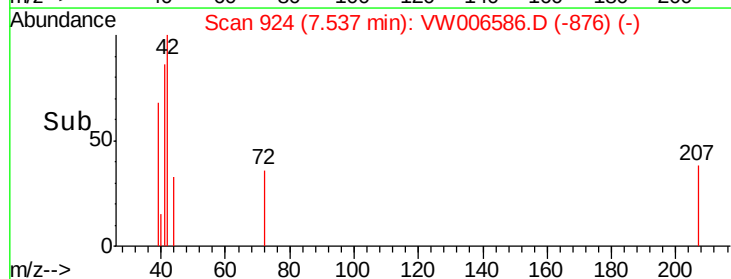
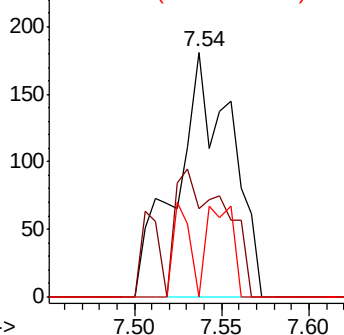
42 100

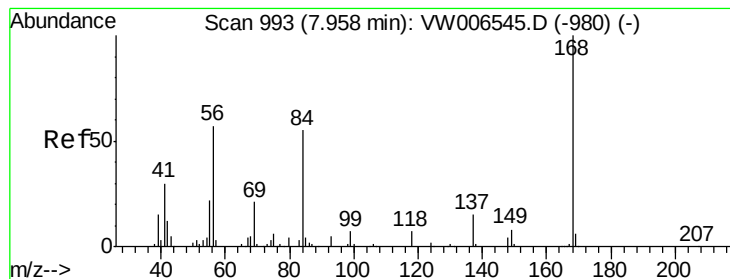
72 46.7 39.2 58.8

71 17.9 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: 1.261 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

Instrument :

MSVOA\_W

ClientSampleId :

TR-04-103018-ARE

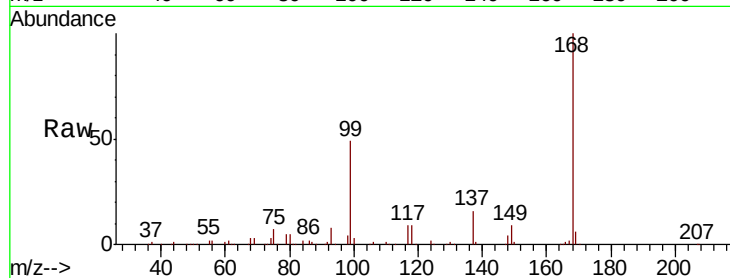
Tgt Ion: 56 Resp: 3713

Ion Ratio Lower Upper

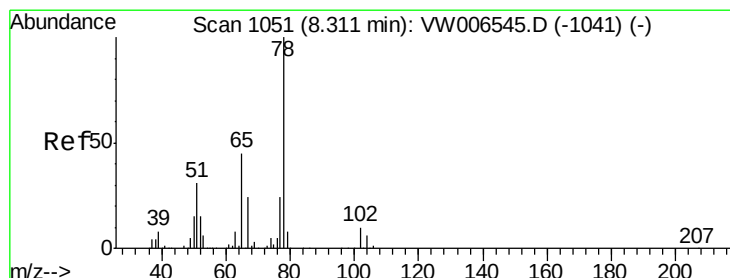
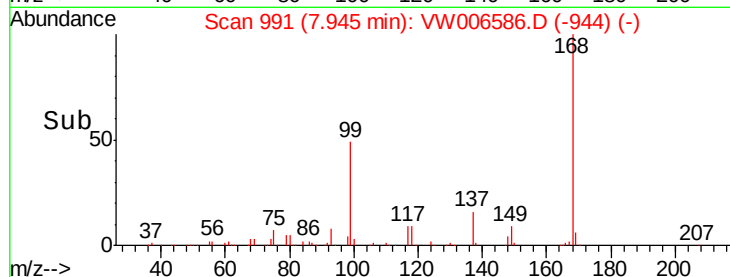
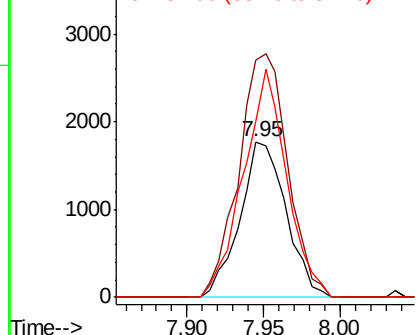
56 100

69 152.2 29.0 43.4#

84 113.1 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: 51.250 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006586.D

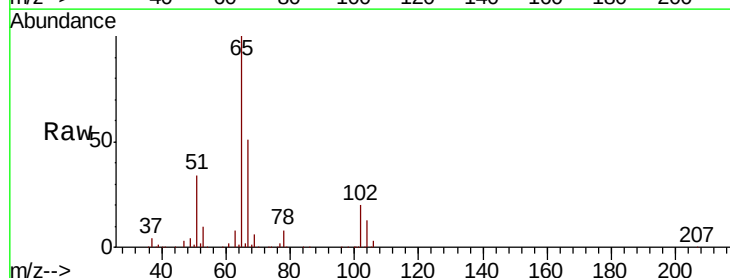
Acq: 02 Nov 2018 04:36

Tgt Ion: 65 Resp: 94771

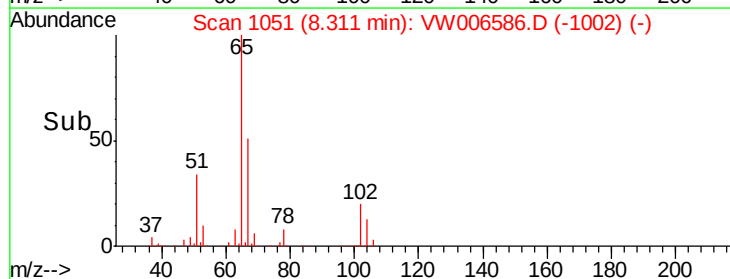
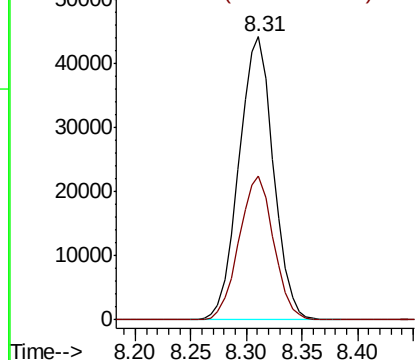
Ion Ratio Lower Upper

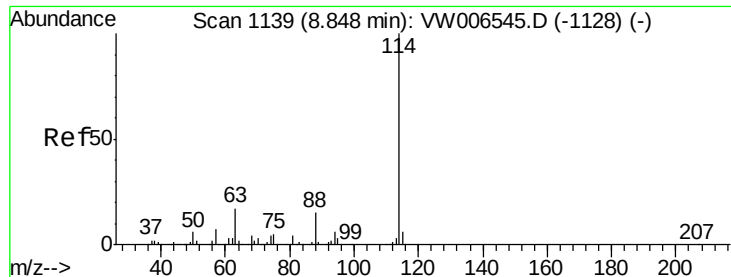
65 100

67 51.1 0.0 104.4



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

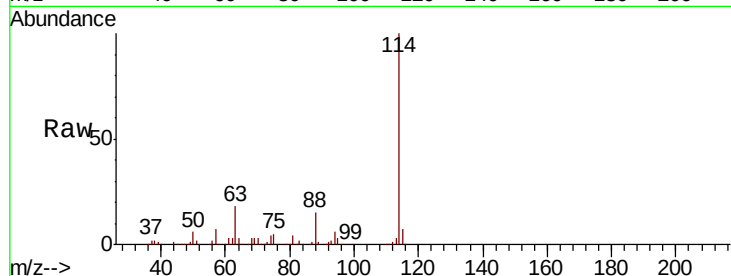




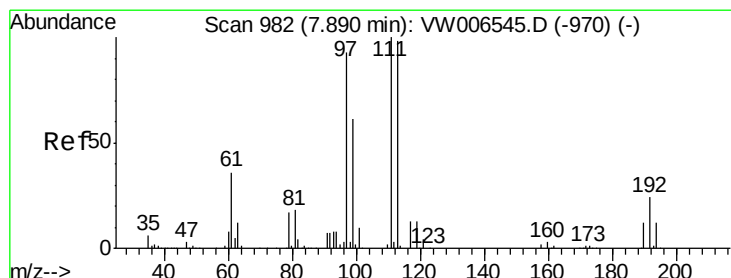
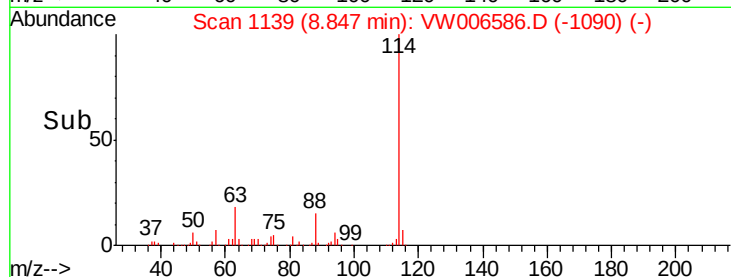
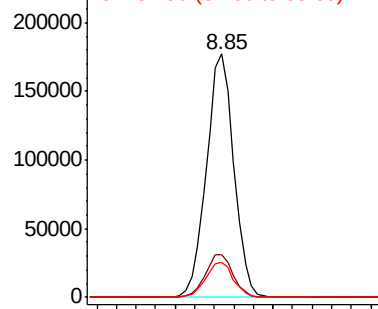
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW006586.D  
 Acq: 02 Nov 2018 04:36

Instrument :  
 MSVOA\_W  
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 TR-04-103018-ARE

Tgt Ion:114 Resp: 343780  
 Ion Ratio Lower Upper  
 114 100  
 63 17.5 0.0 34.4  
 88 14.6 0.0 29.0

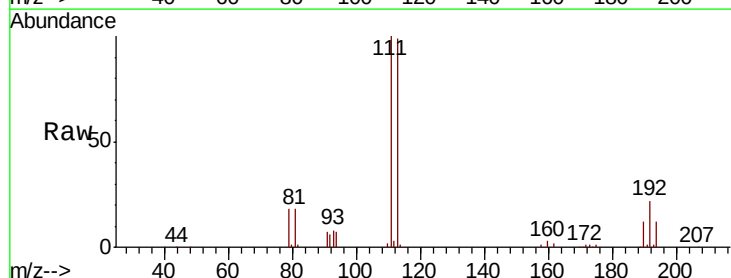


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

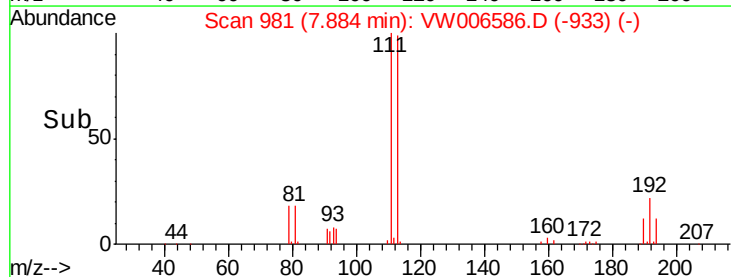
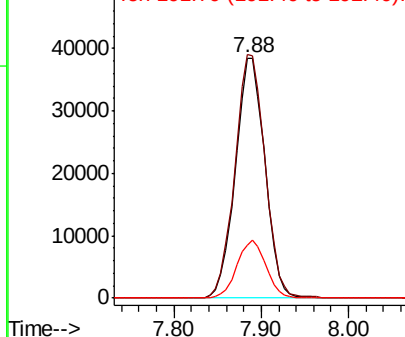


#35  
 Dibromofluoromethane  
 Concen: 41.936 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006586.D  
 Acq: 02 Nov 2018 04:36

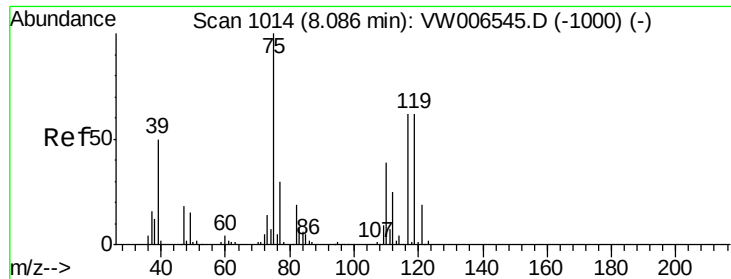
Tgt Ion:113 Resp: 90477  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 82.2 123.2  
 192 23.7 19.0 28.6



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



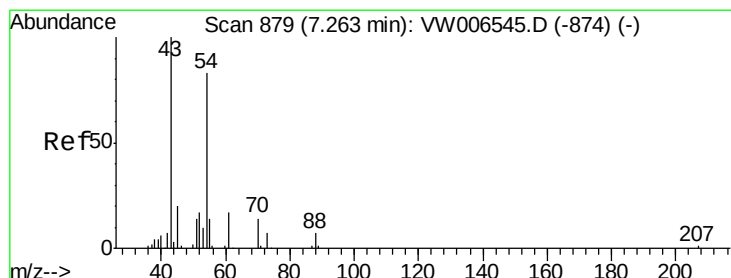
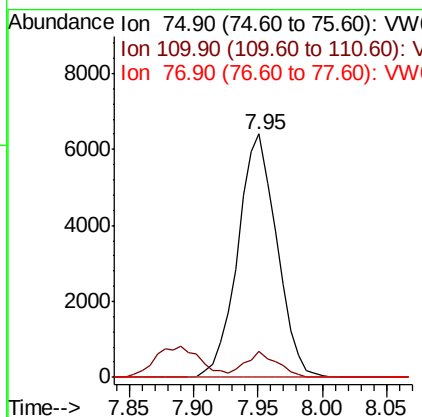
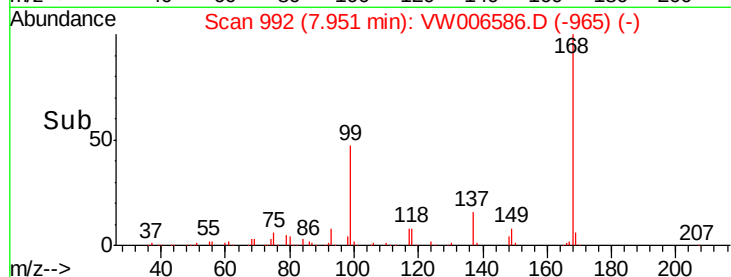
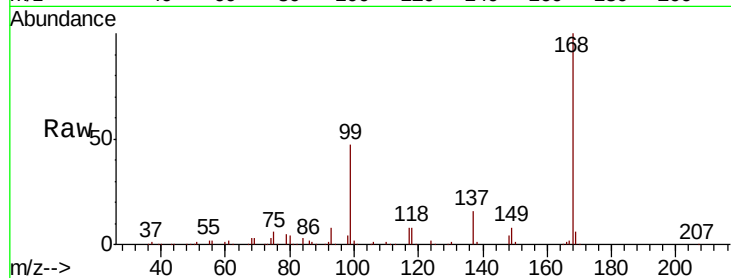




#36  
 1,1-Dichloropropene  
 Concen: 4.438 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006586.D  
 Acq: 02 Nov 2018 04:36

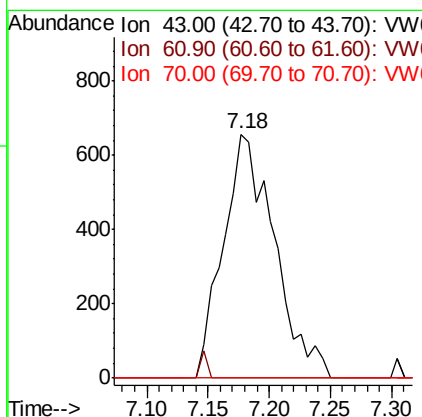
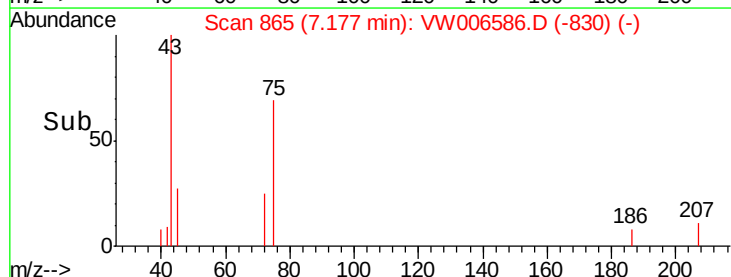
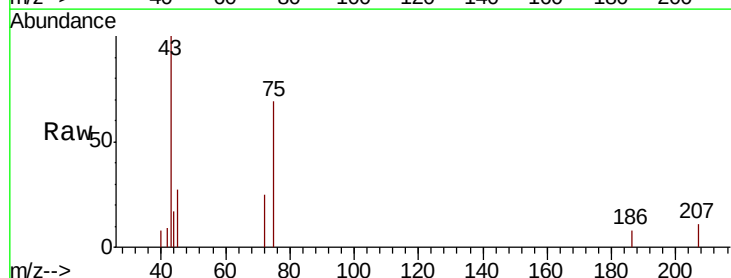
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TR-04-103018-ARE

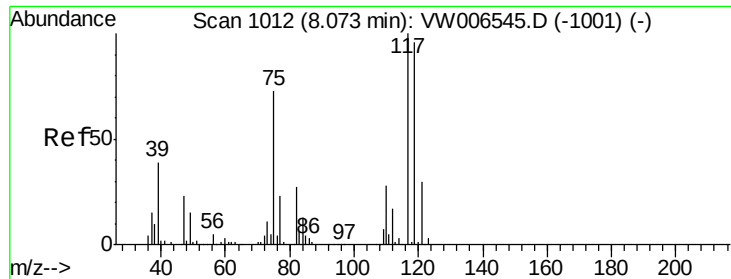
Tgt Ion: 75 Resp: 13417  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 19.5 58.5#  
 77 0.0 24.6 37.0#



#37  
 Ethyl Acetate  
 Concen: 1.820 ug/l  
 RT: 7.18 min Scan# 865  
 Delta R.T. -0.09 min  
 Lab File: VW006586.D  
 Acq: 02 Nov 2018 04:36

Tgt Ion: 43 Resp: 1907  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 12.1 18.1#  
 70 0.0 9.8 14.6#

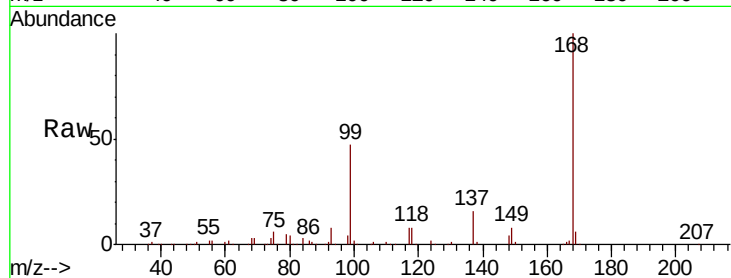




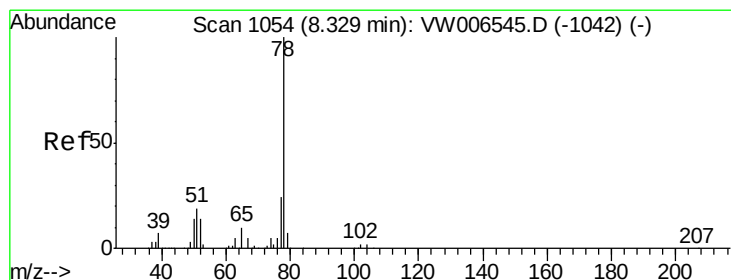
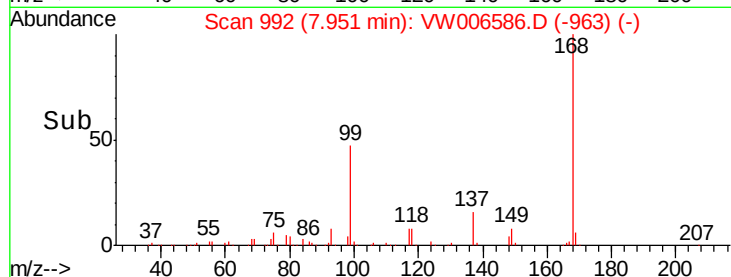
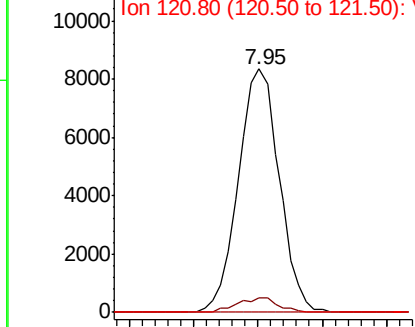
#38  
Carbon Tetrachloride  
Concen: 5.799 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-04-103018-ARE

Tgt Ion:117 Resp: 18319  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.3 114.5#  
121 0.0 24.1 36.1#

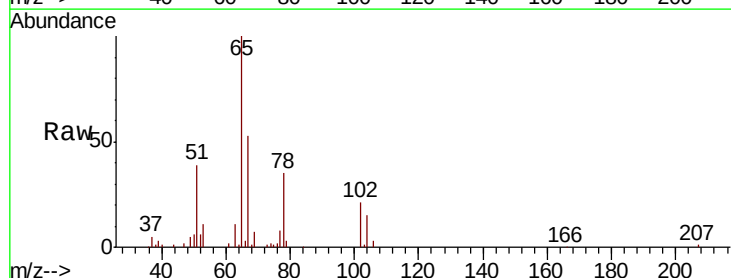


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

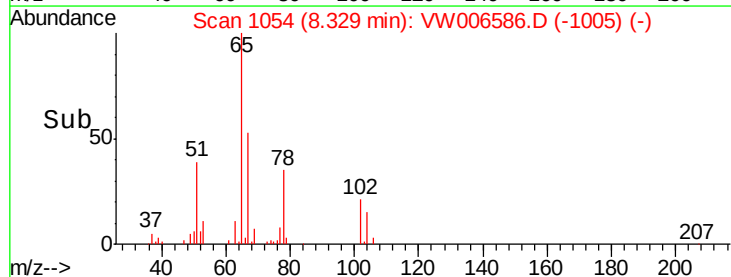
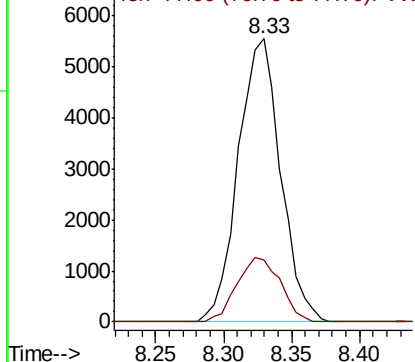


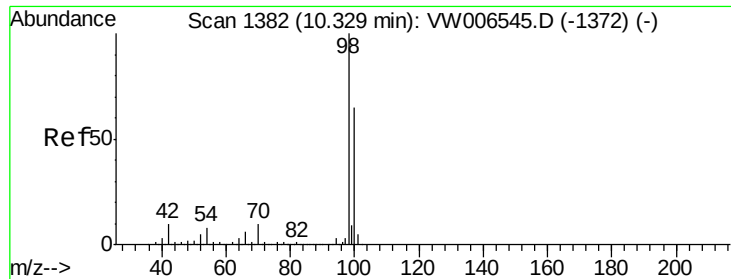
#40  
Benzene  
Concen: 1.409 ug/l  
RT: 8.33 min Scan# 1054  
Delta R.T. -0.00 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

Tgt Ion: 78 Resp: 12098  
Ion Ratio Lower Upper  
78 100  
77 21.8 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VW  
Ion 77.00 (76.70 to 77.70): VW

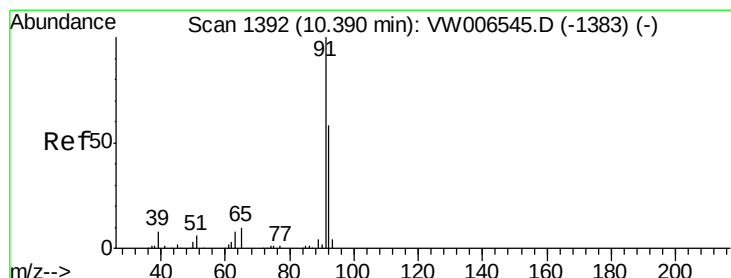
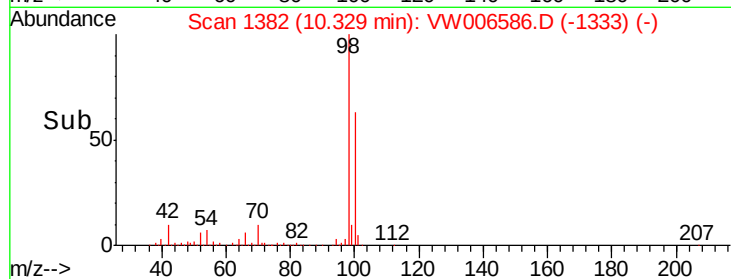
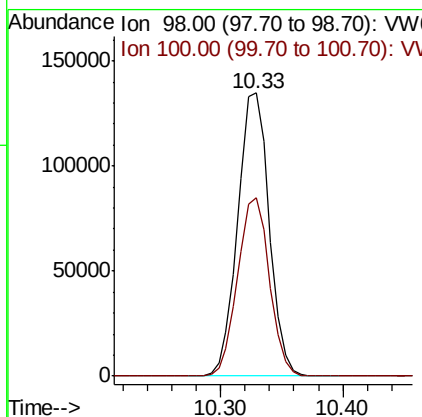
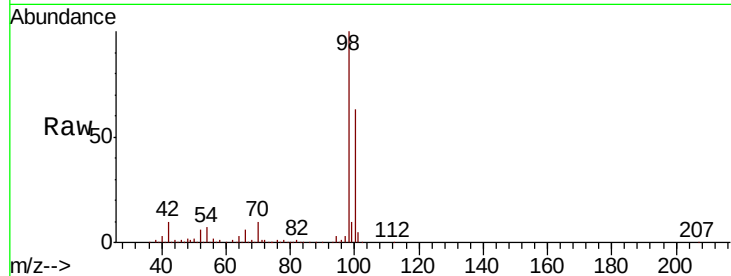




#50  
Toluene-d8  
Concen: 29.281 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. -0.00 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

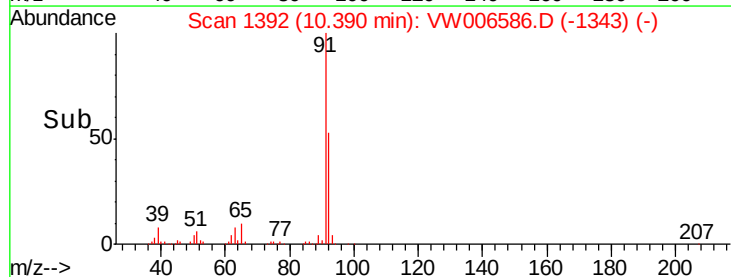
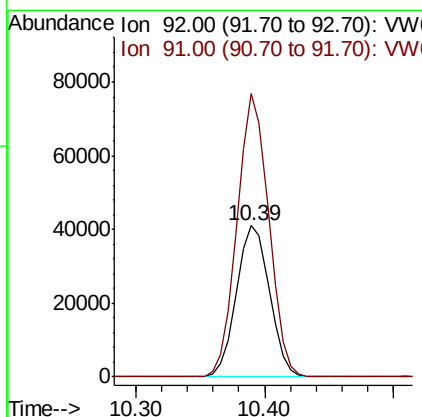
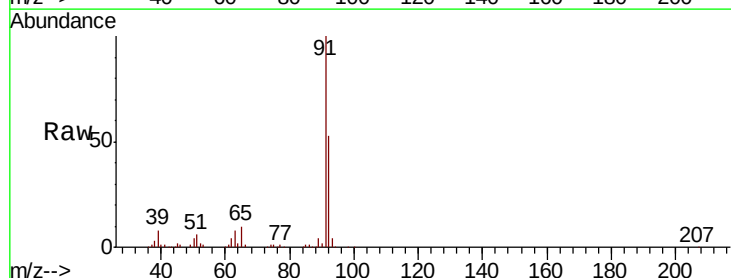
Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-04-103018-ARE

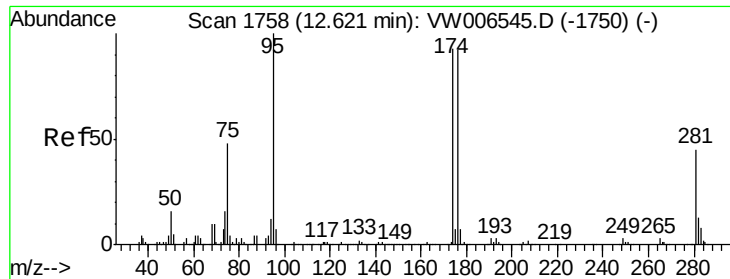
Tgt Ion: 98 Resp: 240488  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.6 77.4



#52  
Toluene  
Concen: 12.643 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

Tgt Ion: 92 Resp: 72818  
Ion Ratio Lower Upper  
92 100  
91 179.7 138.6 208.0





#62

4-Bromofluorobenzene

Concen: 25.977 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

Instrument :

MSVOA\_W

ClientSampleId :

TR-04-103018-ARE

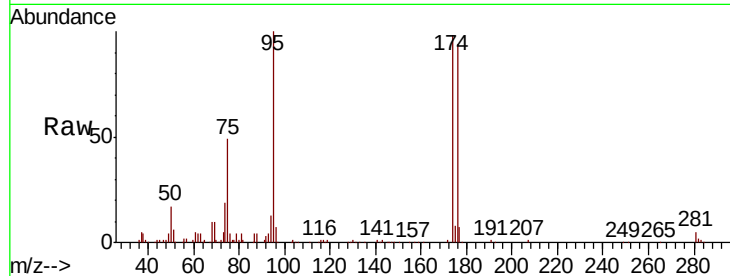
Tgt Ion: 95 Resp: 77349

Ion Ratio Lower Upper

95 100

174 100.9 0.0 192.4

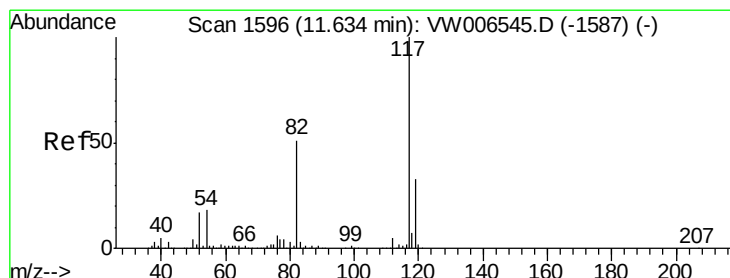
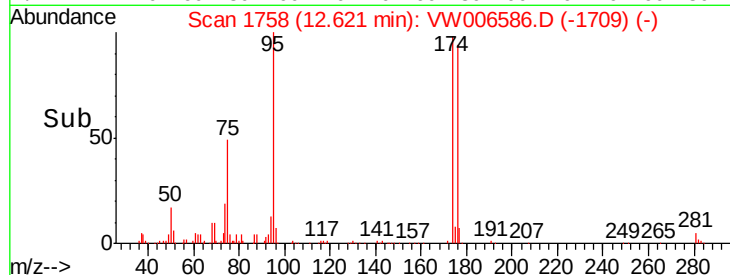
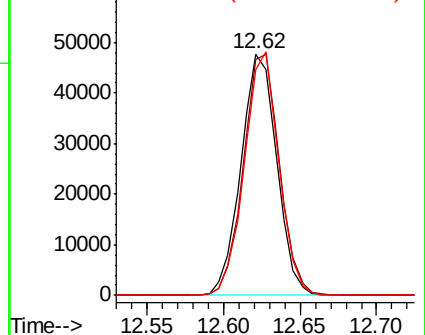
176 97.2 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

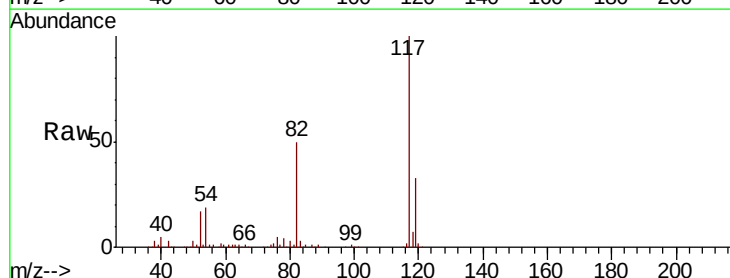
Tgt Ion: 117 Resp: 247750

Ion Ratio Lower Upper

117 100

82 49.5 40.8 61.2

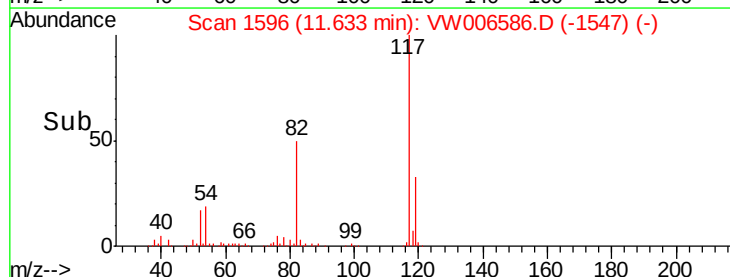
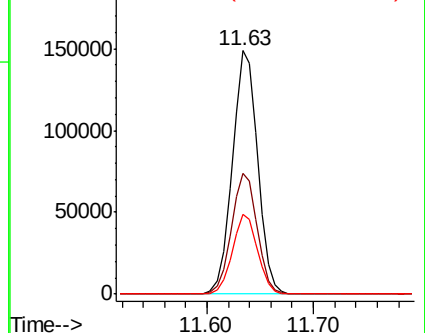
119 32.9 26.1 39.1

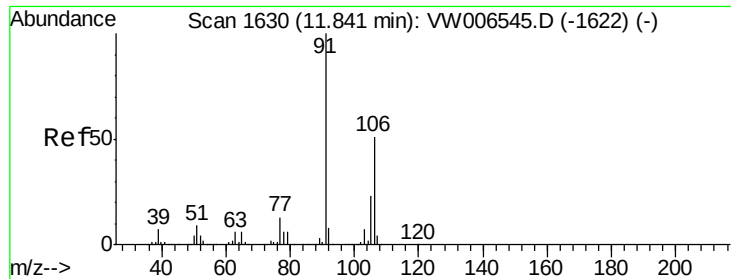


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

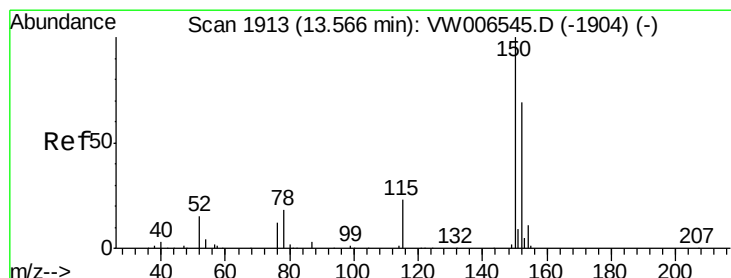
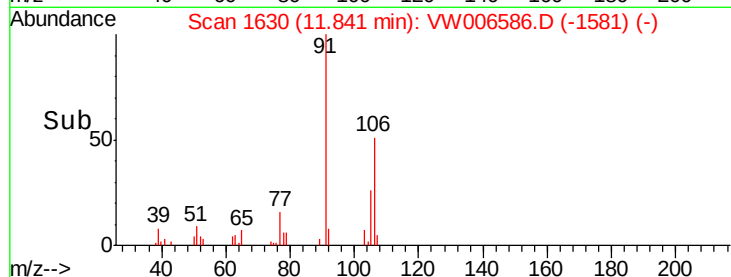
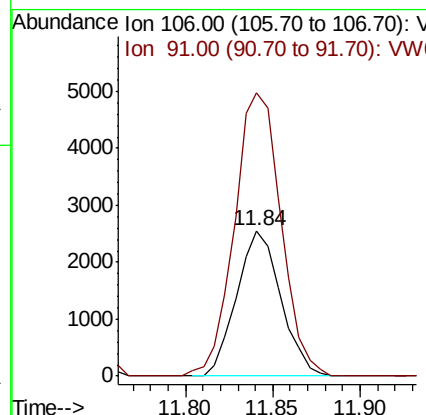
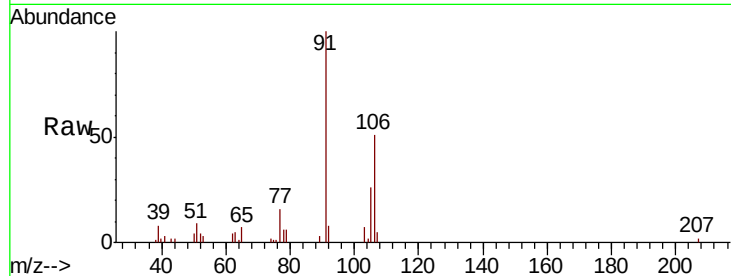




#68  
m/p-Xylenes  
Concen: 1.292 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

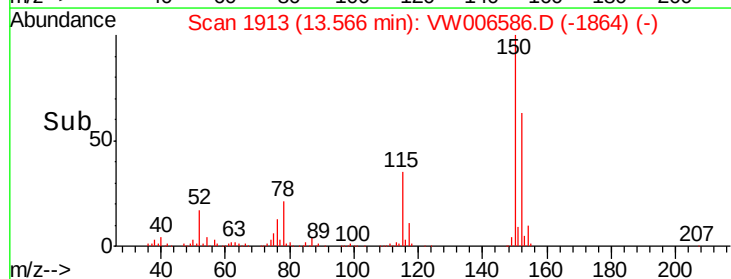
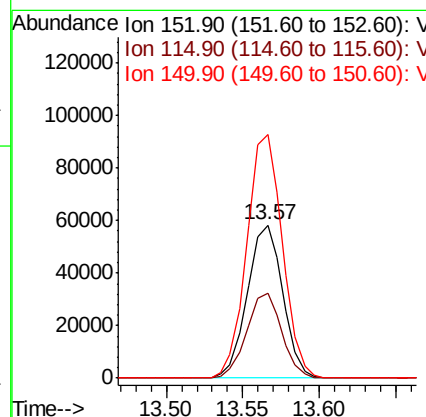
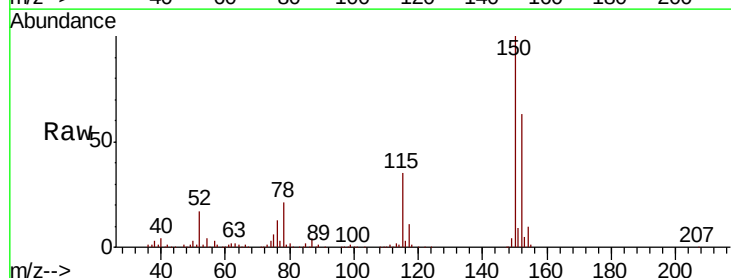
Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-04-103018-ARE

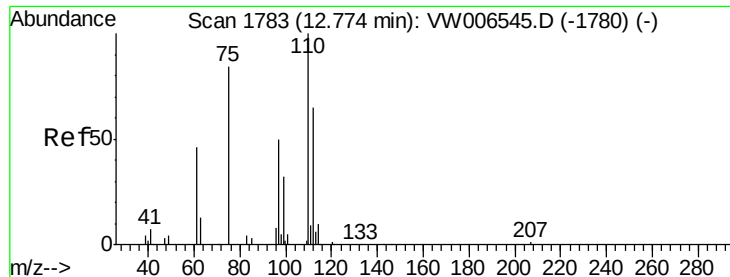
Tgt Ion:106 Resp: 4498  
Ion Ratio Lower Upper  
106 100  
91 205.5 156.7 235.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW006586.D  
Acq: 02 Nov 2018 04:36

Tgt Ion:152 Resp: 94073  
Ion Ratio Lower Upper  
152 100  
115 54.6 26.6 79.8  
150 159.3 0.0 344.6





#76

1,2,3-Trichloropropane

Concen: 53.586 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

Instrument :

MSVOA\_W

ClientSampleId :

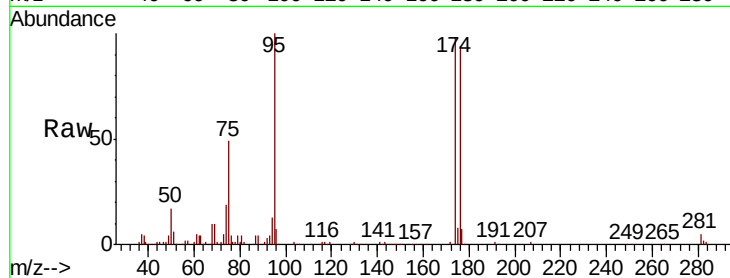
TR-04-103018-ARE

Tgt Ion: 75 Resp: 39331

Ion Ratio Lower Upper

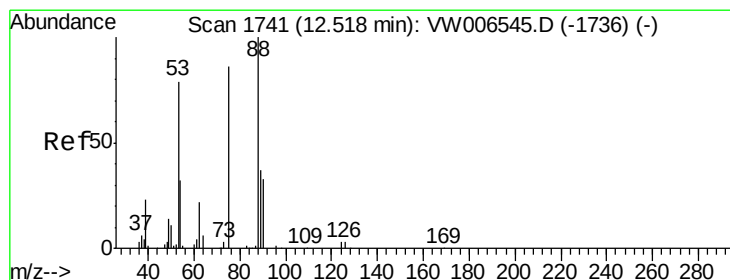
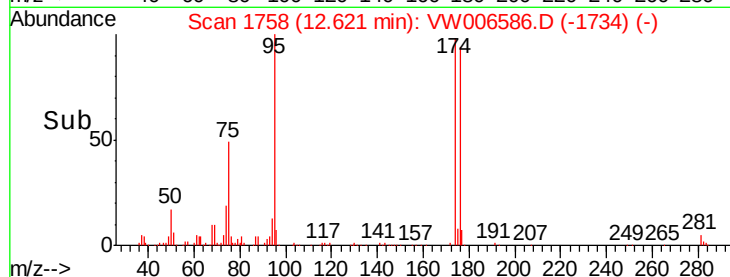
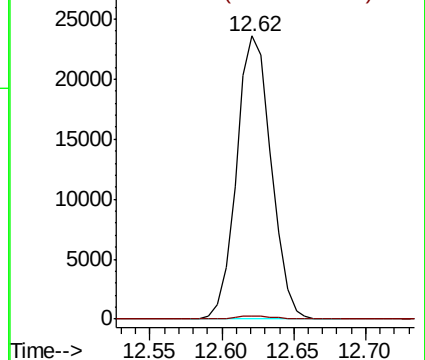
75 100

77 1.1 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: 134.048 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006586.D

Acq: 02 Nov 2018 04:36

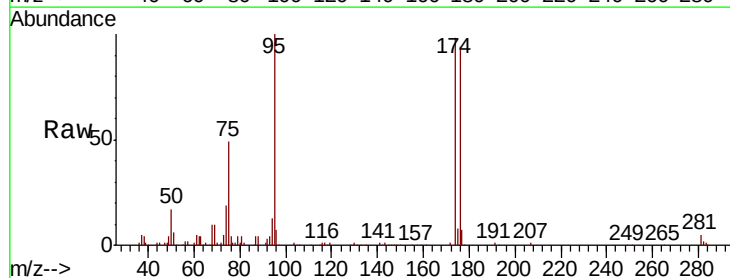
Tgt Ion: 75 Resp: 39331

Ion Ratio Lower Upper

75 100

53 0.0 77.2 115.8#

89 0.0 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

