

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122018\  
 Data File : VW007653.D  
 Acq On : 18 Dec 2018 12:59  
 Operator : SY/AP  
 Sample : J6391-06RE  
 Misc : 5.58G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 19 03:16:03 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  | 18550    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 32436    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 22442    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 7097     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 16414    | 79.76  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 159.52% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 12845    | 65.42  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 130.84% |          |
| 50) Toluene-d8              | 10.32 | 98   | 31745    | 43.12  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 86.24%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 8553     | 31.60  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 63.20%  |          |

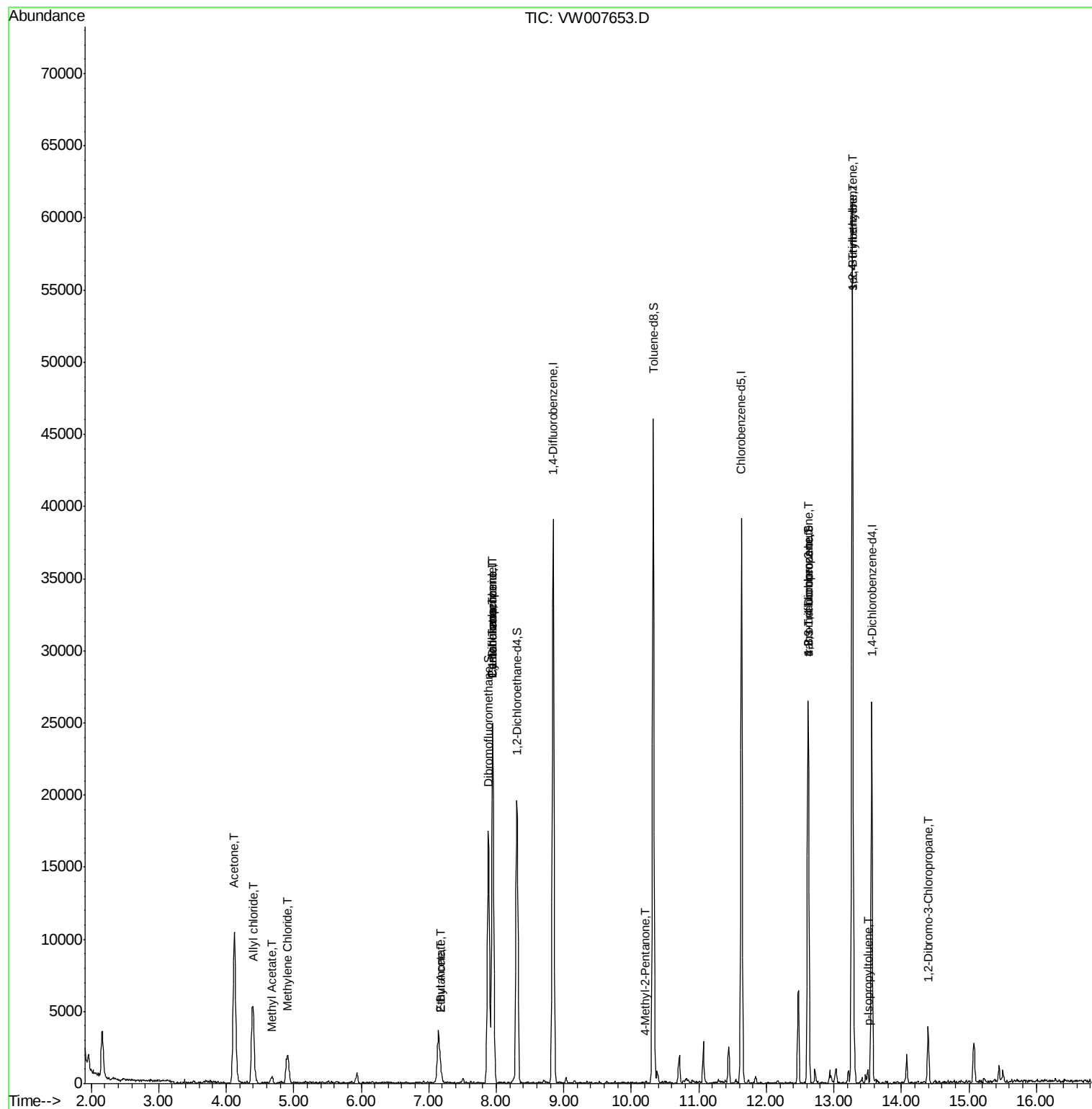
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 14) Allyl chloride             | 4.39  | 41   | 763      | 2.845   | ug/l # | 68     |
| 16) Acetone                    | 4.12  | 43   | 18163    | 505.276 | ug/l   | 97     |
| 18) Methyl Acetate             | 4.68  | 43   | 942      | 9.655   | ug/l # | 76     |
| 20) Methylene Chloride         | 4.90  | 84   | 1624     | 4.713   | ug/l   | 96     |
| 25) 2-Butanone                 | 7.18  | 43   | 1143     | 24.356  | ug/l   | 98     |
| 31) Cyclohexane                | 7.95  | 56   | 364      | 1.139   | ug/l # | 33     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 1416     | 4.786   | ug/l # | 43     |
| 37) Ethyl Acetate              | 7.18  | 43   | 1143     | 10.386  | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 2060     | 6.398   | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 132      | 1.285   | ug/l # | 65     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 4114     | 70.305  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 4114     | 155.303 | ug/l # | 7      |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 21396    | 45.504  | ug/l # | 31     |
| 85) sec-Butylbenzene           | 13.27 | 105  | 21396    | 38.929  | ug/l # | 54     |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 663      | 1.343   | ug/l   | 92     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.40 | 75   | 46       | 2.846   | ug/l # | 3      |

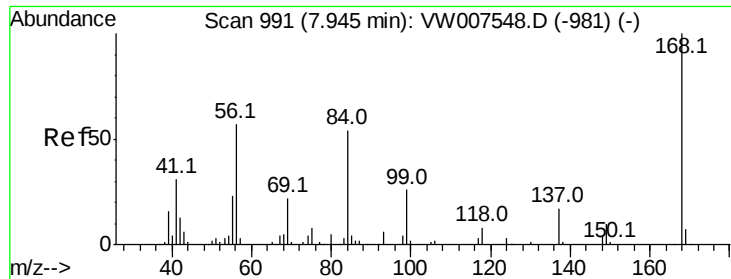
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
ClientSampleId :

Quant Time: Dec 19 03:16:03 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: VW007653.D

Acq: 18 Dec 2018 12:59

Instrument :

MSVOA\_W

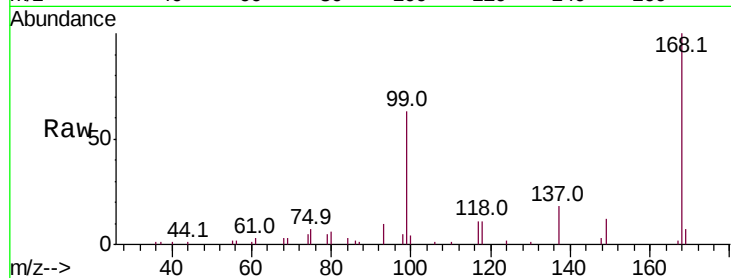
ClientSampled :

Tot Ion:168 Resp: 18550

Ion Ratio Lower Upper

168 100

99 62.7 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

8000

6000

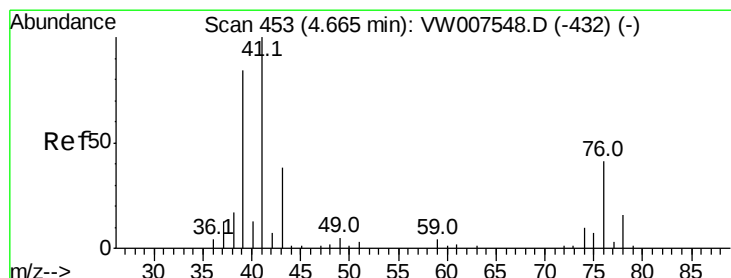
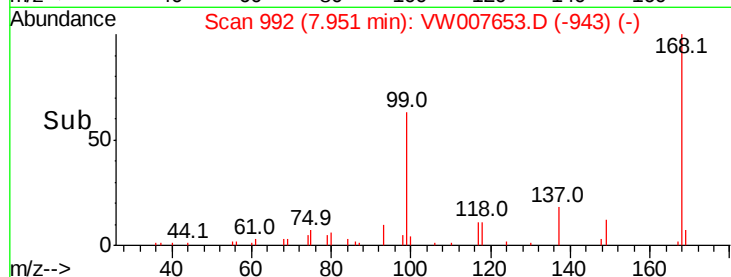
4000

2000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#14

Allyl chloride

Concen: 2.845 ug/l

RT: 4.39 min Scan# 408

Delta R.T. -0.27 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

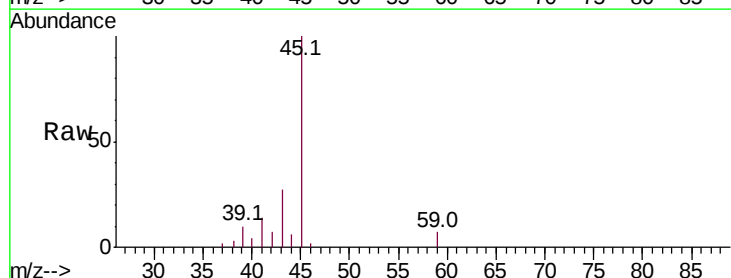
Tgt Ion: 41 Resp: 763

Ion Ratio Lower Upper

41 100

39 92.7 63.4 95.2

76 0.0 32.1 48.1#



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

500

400

300

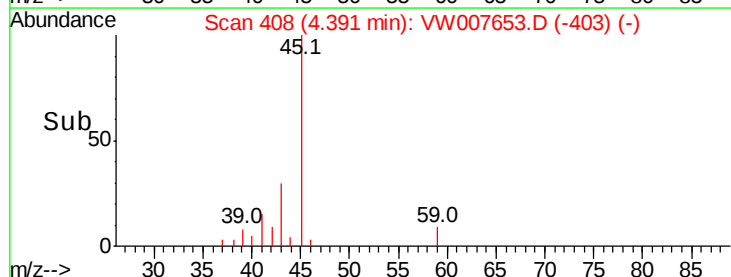
200

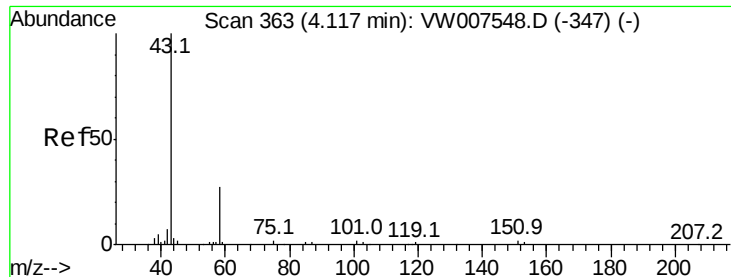
100

0

Time-->

4.35 4.40 4.45

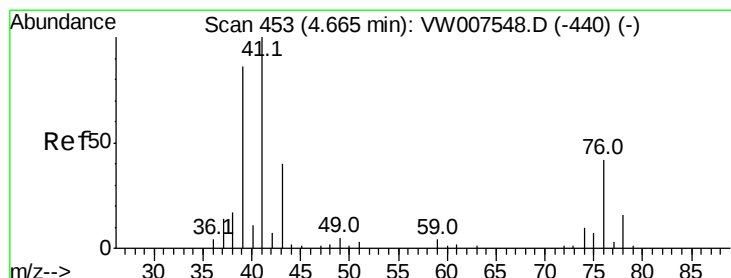
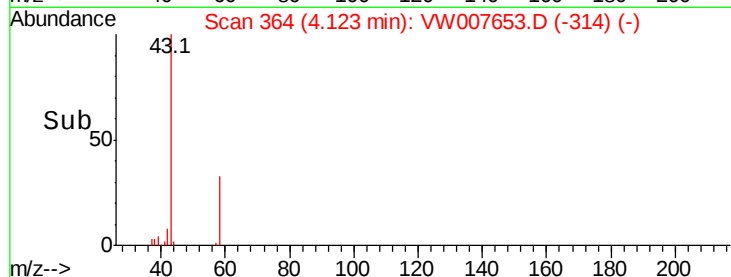
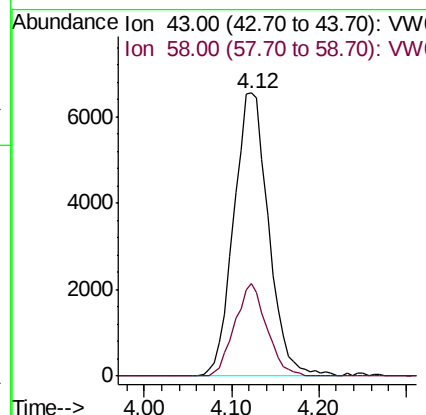
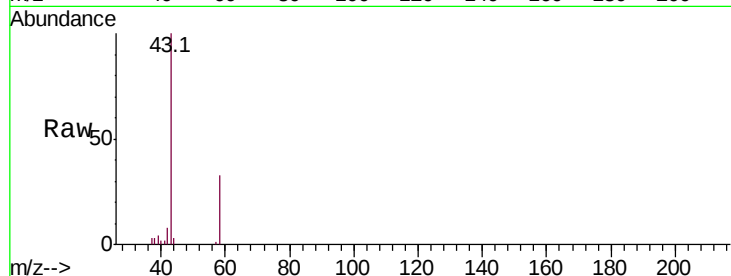




#16  
Acetone  
Concen: 505.276 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

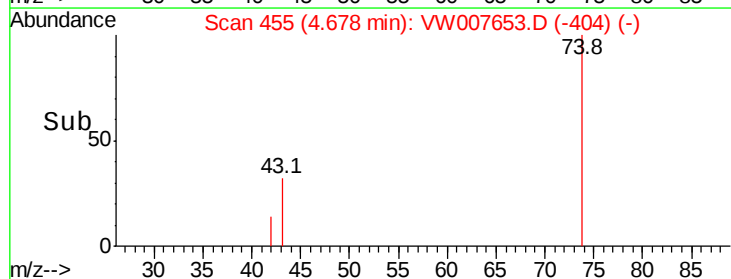
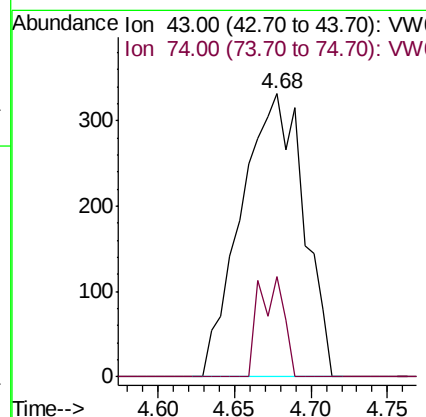
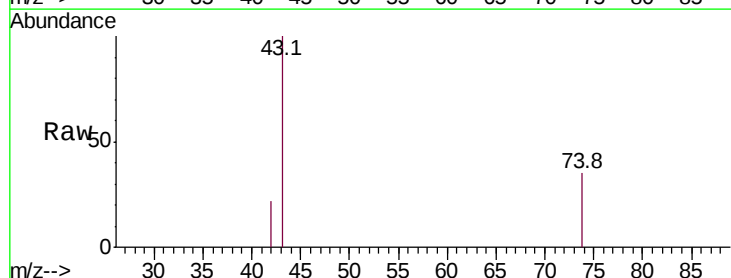
Instrument :  
MSVOA\_W  
ClientSampled :

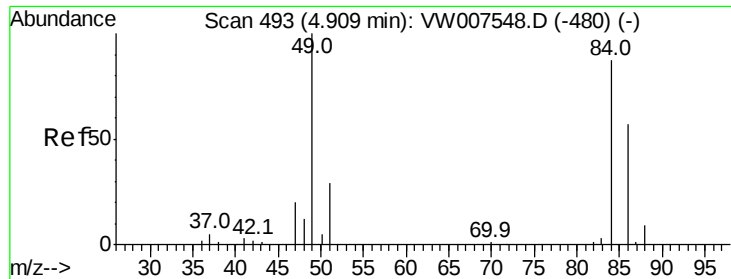
Tot Ion: 43 Resp: 18163  
Ion Ratio Lower Upper  
43 100  
58 33.0 24.9 37.3



#18  
Methyl Acetate  
Concen: 9.655 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. 0.01 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

Tgt Ion: 43 Resp: 942  
Ion Ratio Lower Upper  
43 100  
74 14.3 21.1 31.7#

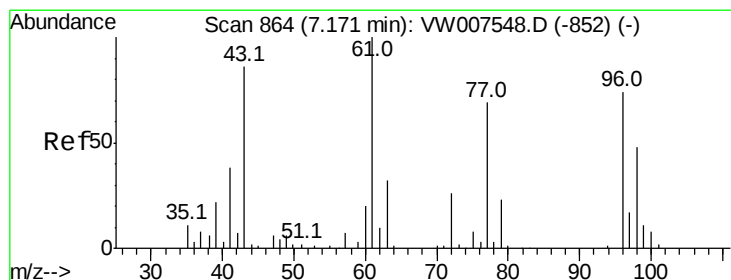
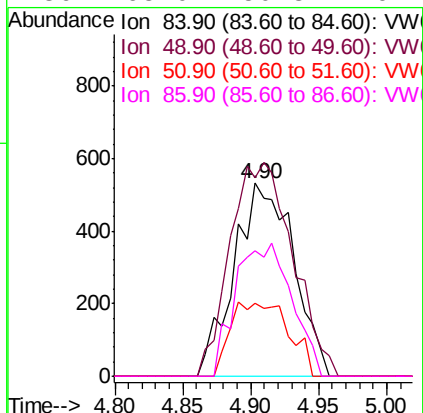
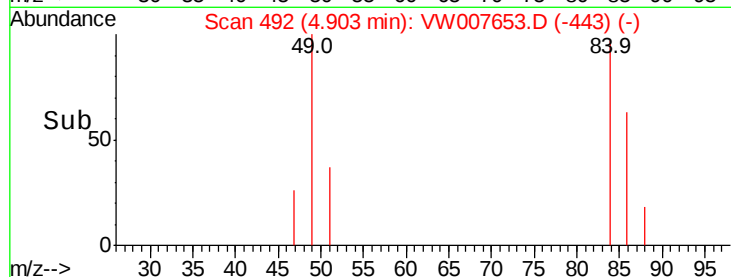
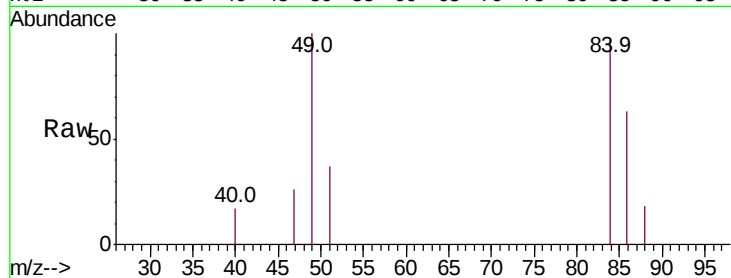




#20  
Methvlene Chloride  
Concen: 4.713 ug/l  
RT: 4.90 min Scan# 492  
Delta R.T. 0.00 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

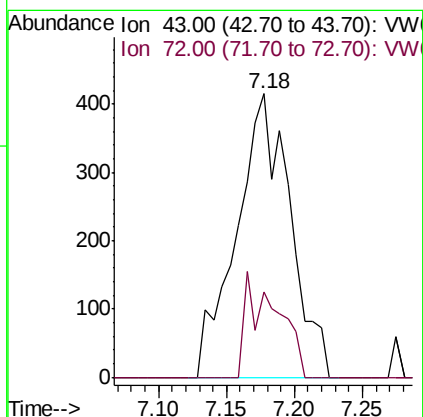
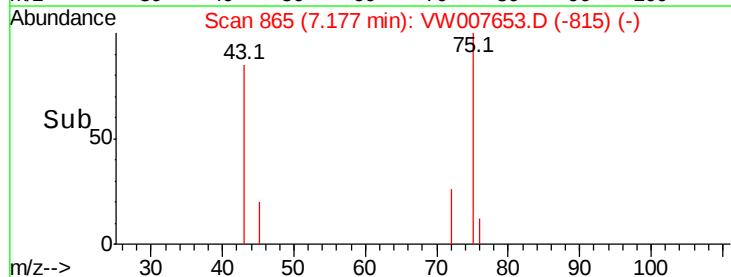
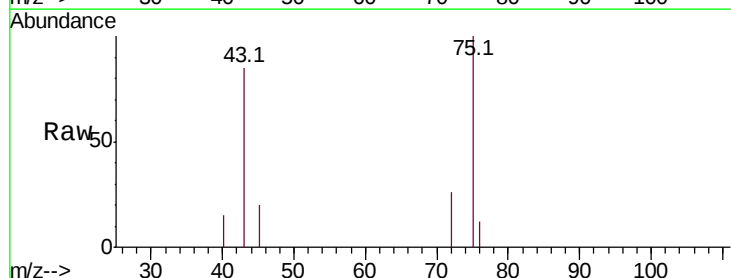
Instrument :  
MSVOA\_W  
ClientSampled :

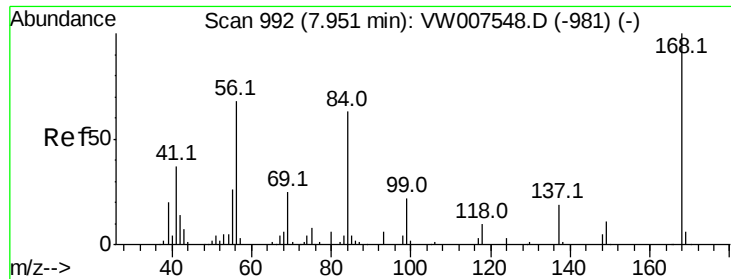
Tot Ion: 84 Resp: 1624  
Ion Ratio Lower Upper  
84 100  
49 102.8 87.1 130.7  
51 37.7 28.2 42.2  
86 65.0 50.8 76.2



#25  
2-Butanone  
Concen: 24.356 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

Tgt Ion: 43 Resp: 1143  
Ion Ratio Lower Upper  
43 100  
72 30.1 23.4 35.2

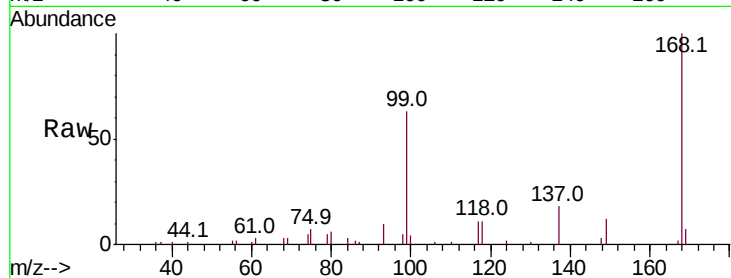




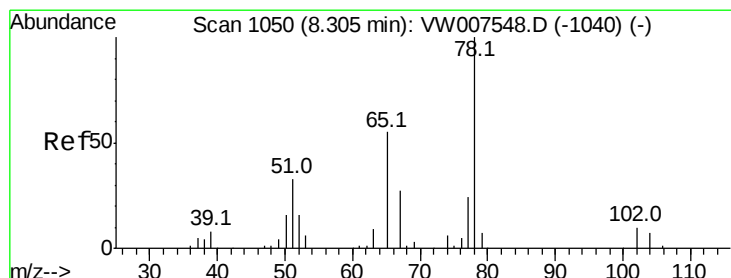
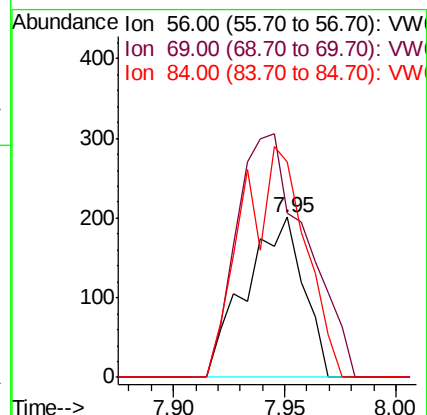
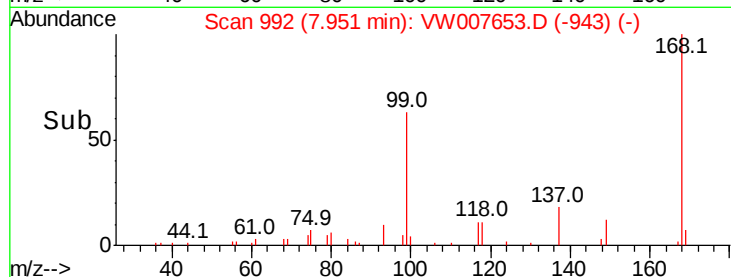
#31  
Cyclohexane  
Concen: 1.139 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 364  
Ion Ratio Lower Upper  
56 100  
69 103.0 28.9 43.3#  
84 134.8 71.8 107.6#

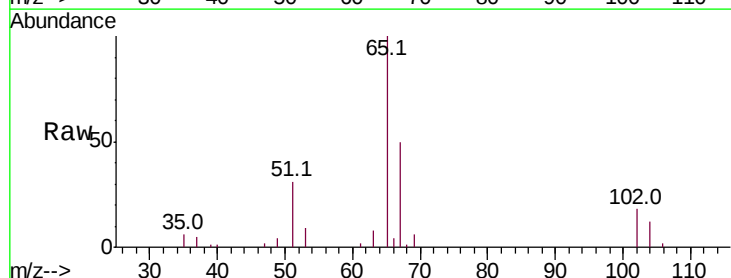


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

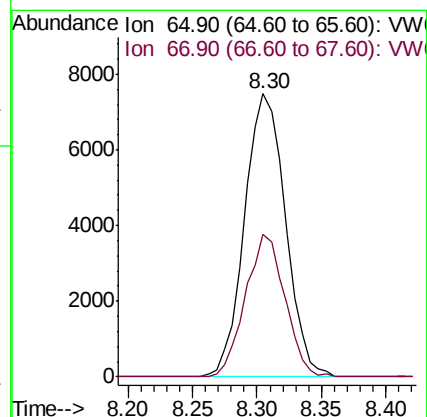
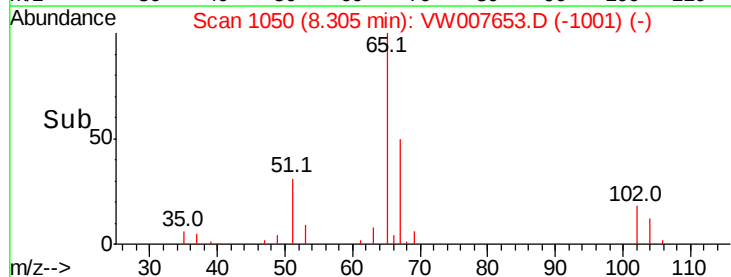


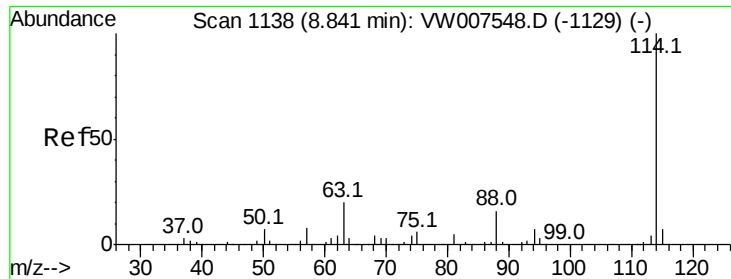
#33  
1,2-Dichloroethane-d4  
Concen: 79.758 ug/l  
RT: 8.30 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

Tgt Ion: 65 Resp: 16414  
Ion Ratio Lower Upper  
65 100  
67 48.6 0.0 101.6



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

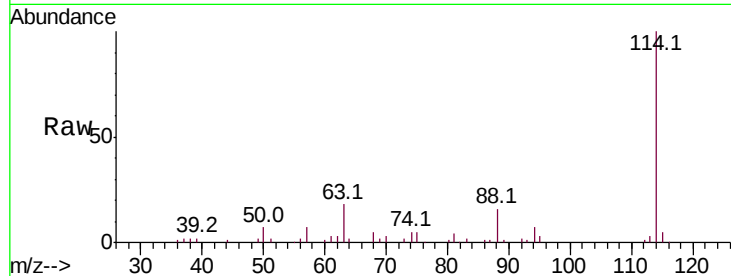




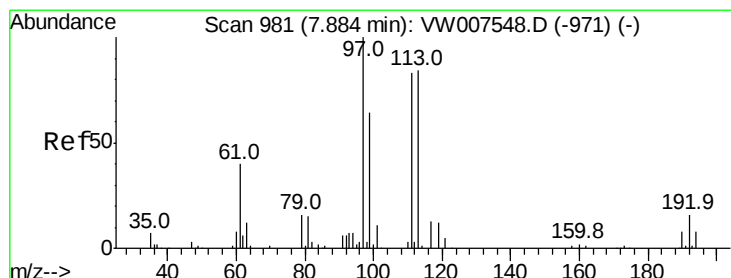
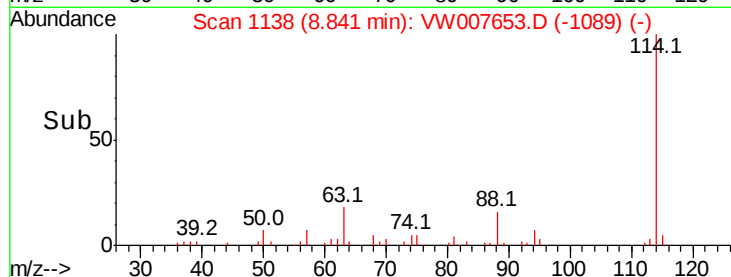
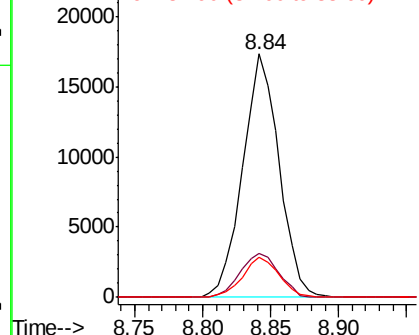
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.0  | 0.0   | 39.6  |
| 88      | 16.2  | 0.0   | 31.4  |

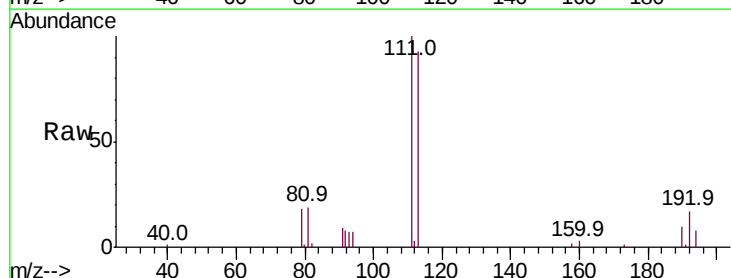


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

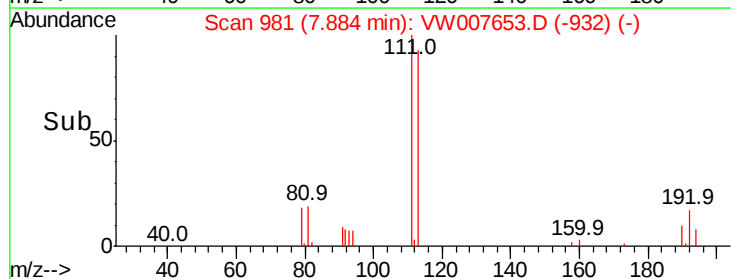
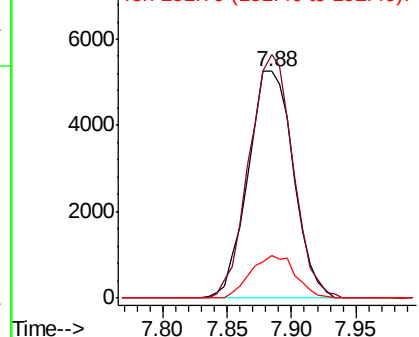


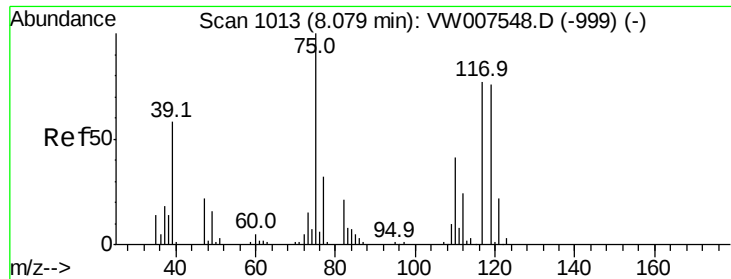
#35  
 Dibromofluoromethane  
 Concen: 65.419 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 81.1  | 121.7 |
| 192     | 18.6  | 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: 4.786 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

Instrument :

MSVOA\_W

ClientSampled :

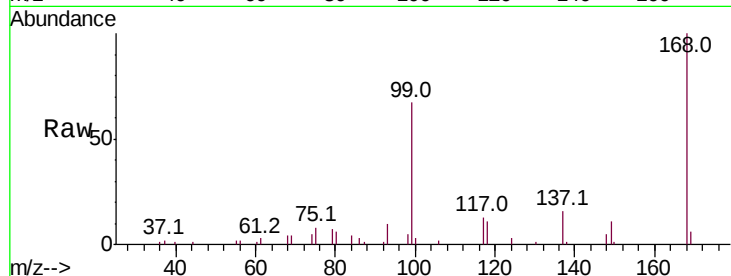
Tot Ion: 75 Resp: 1416

Ion Ratio Lower Upper

75 100

110 2.8 18.5 55.5#

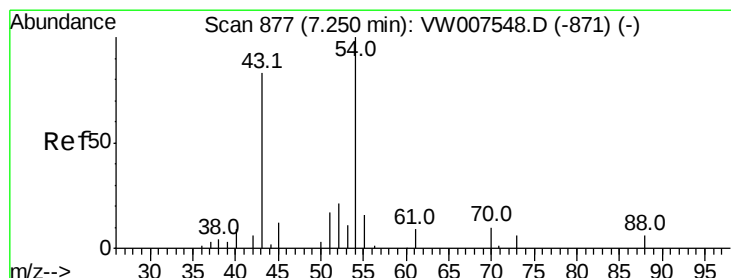
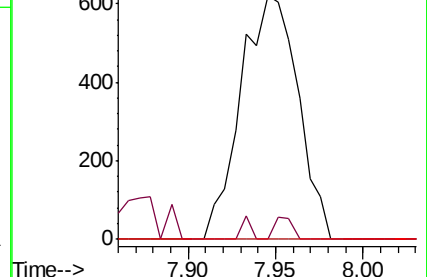
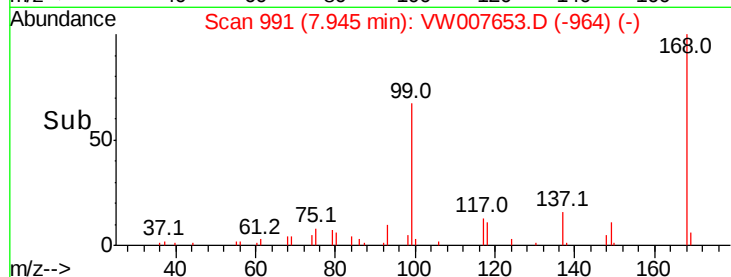
77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 10.386 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

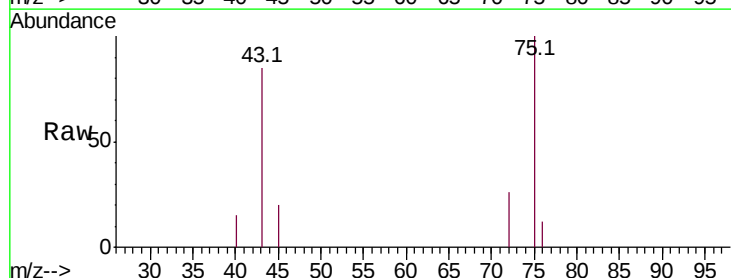
Tgt Ion: 43 Resp: 1143

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1#

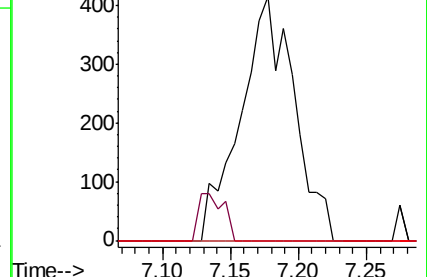
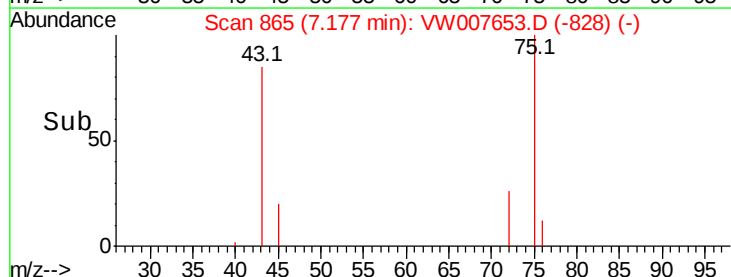
70 0.0 10.0 15.0#

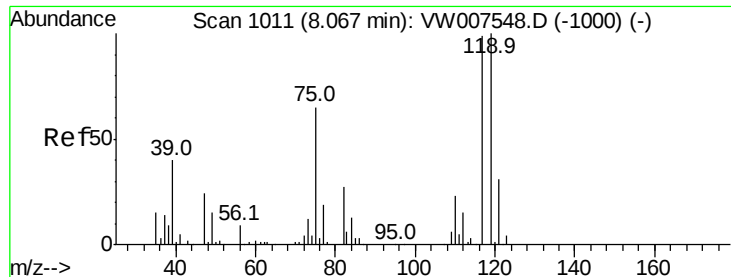


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW

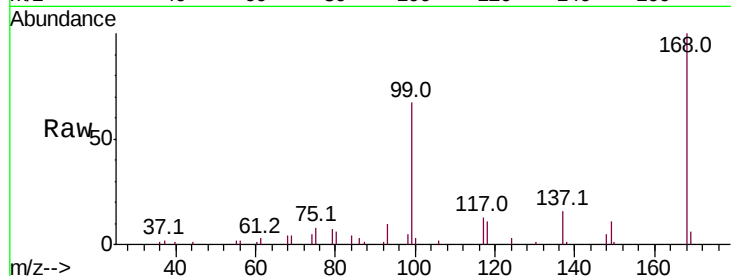




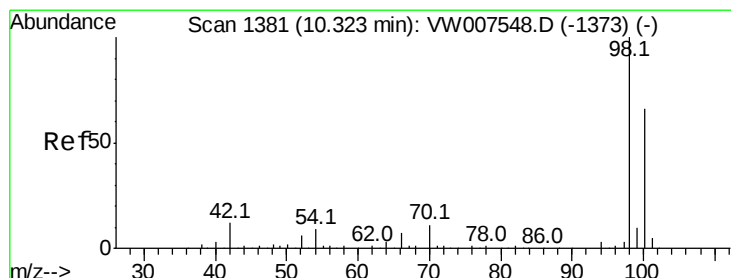
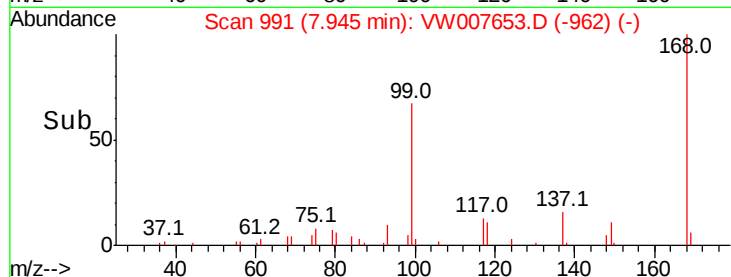
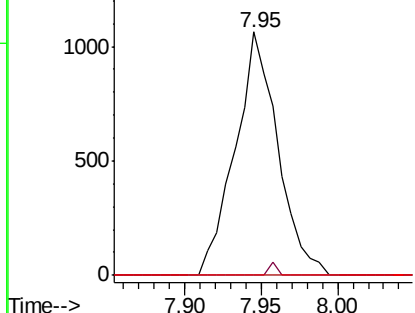
#38  
Carbon Tetrachloride  
Concen: 6.398 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 2060  
Ion Ratio Lower Upper  
117 100  
119 0.0 74.3 111.5#  
121 0.0 24.3 36.5#

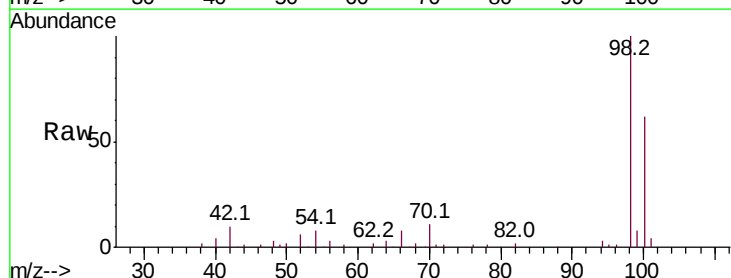


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

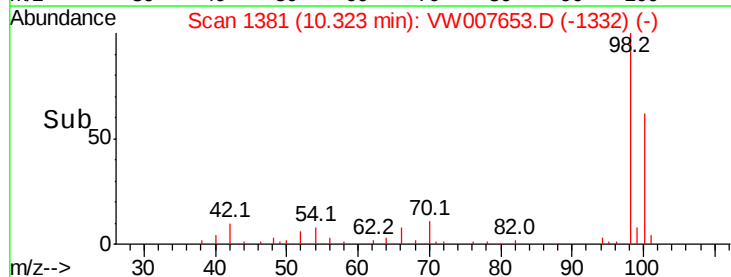
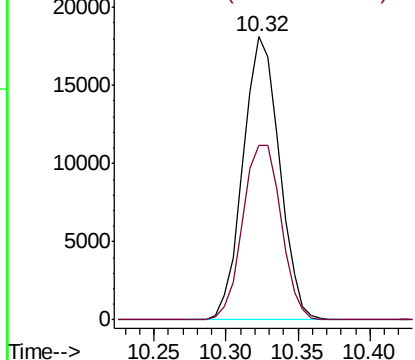


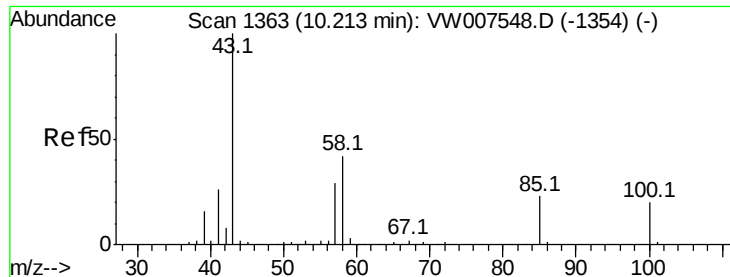
#50  
Toluene-d8  
Concen: 43.120 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW007653.D  
Acq: 18 Dec 2018 12:59

Tgt Ion: 98 Resp: 31745  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.285 ug/l

RT: 10.22 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

Instrument :

MSVOA\_W

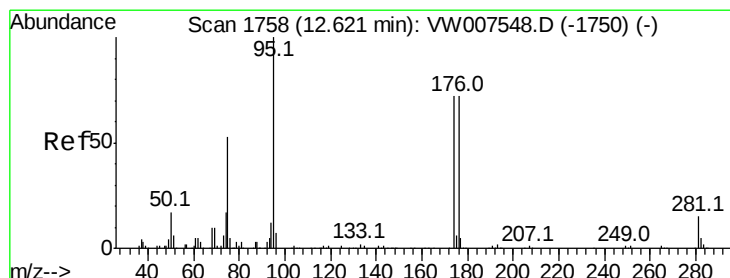
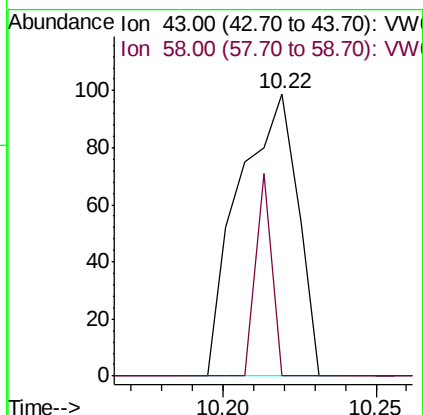
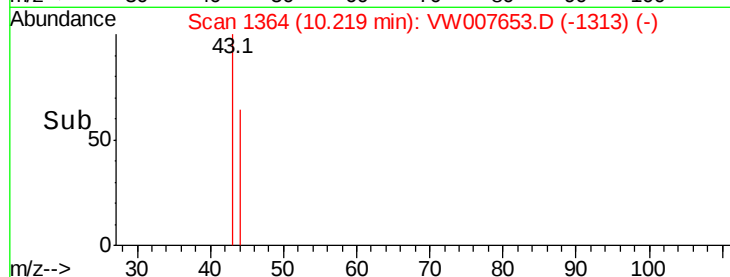
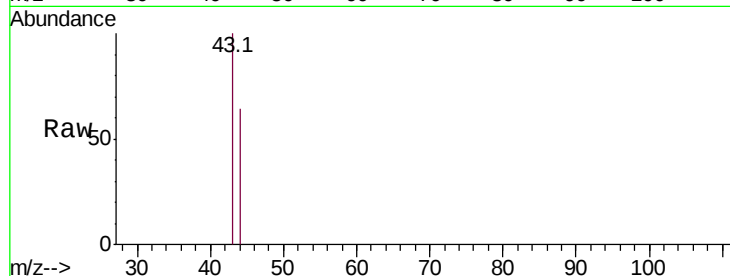
ClientSampleId :

Tot Ion: 43 Resp: 132

Ion Ratio Lower Upper

43 100

58 19.7 33.1 49.7#



#62

4-Bromofluorobenzene

Concen: 31.598 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

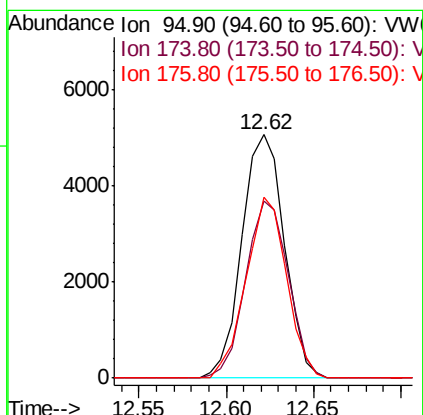
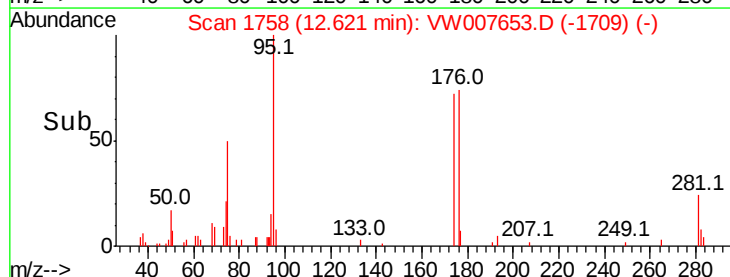
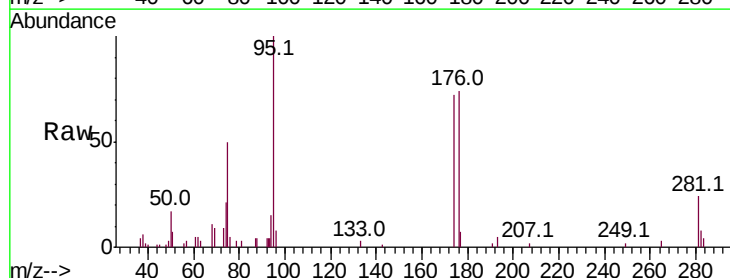
Tgt Ion: 95 Resp: 8553

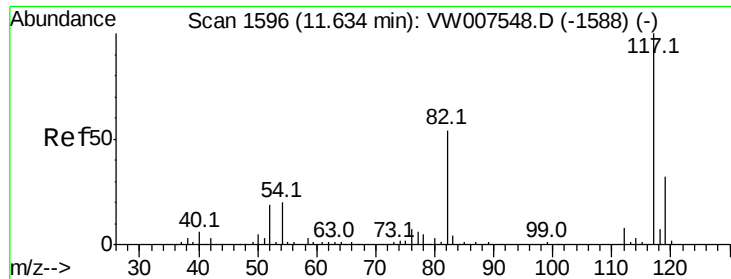
Ion Ratio Lower Upper

95 100

174 72.9 0.0 147.2

176 71.1 0.0 138.8

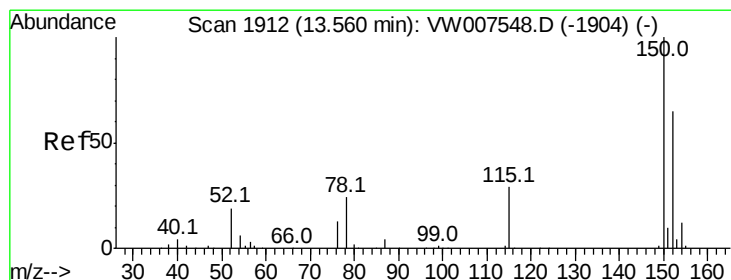
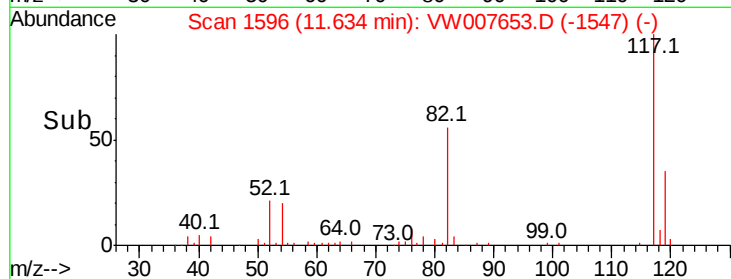
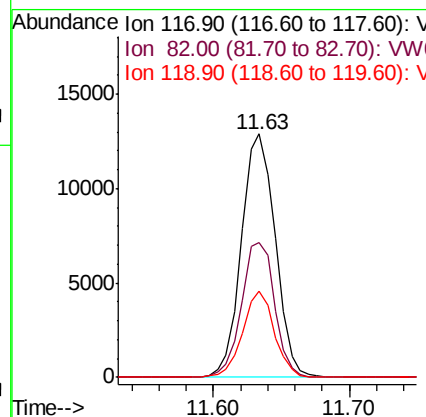
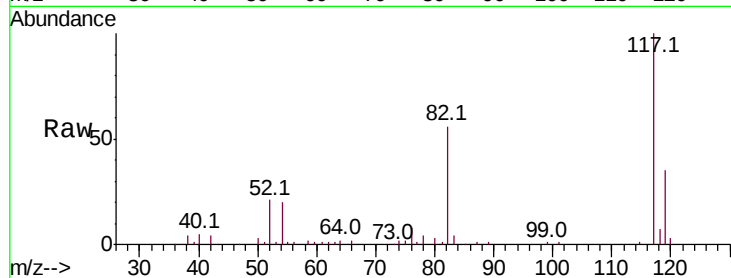




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.63 min Scan# 1596  
 Delta R.T. -0.00 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

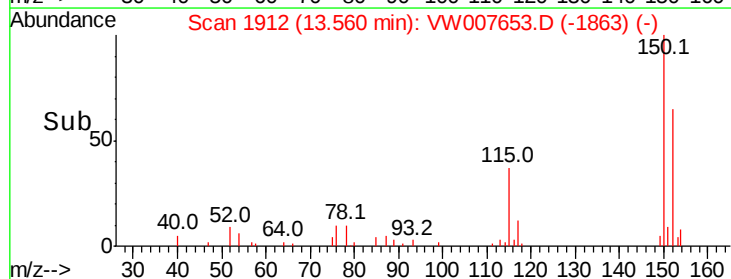
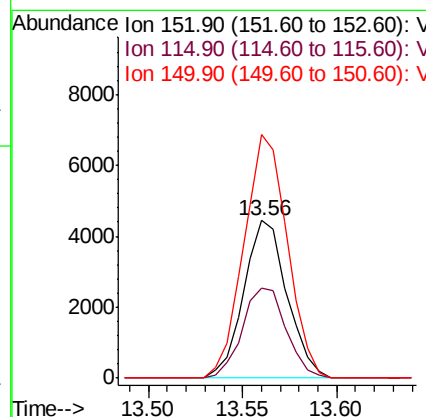
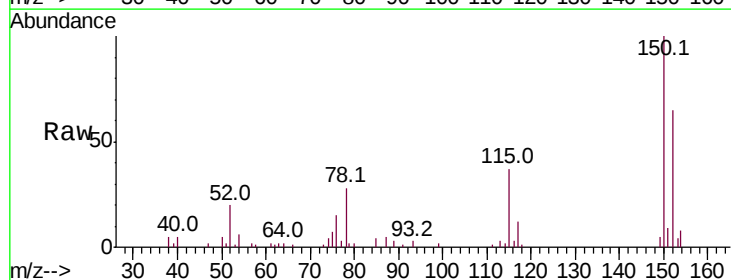
Instrument :  
 MSVOA\_W  
 ClientSampleId :

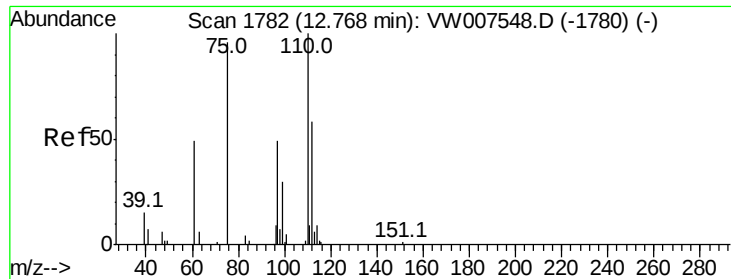
Tot Ion:117 Resp: 22442  
 Ion Ratio Lower Upper  
 117 100  
 82 55.5 42.3 63.5  
 119 35.4 23.0 34.6#



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. -0.00 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

Tgt Ion:152 Resp: 7097  
 Ion Ratio Lower Upper  
 152 100  
 115 57.7 31.4 94.2  
 150 154.5 0.0 358.4





#76

1,2,3-Trichloropropane

Concen: 70.305 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

Instrument :

MSVOA\_W

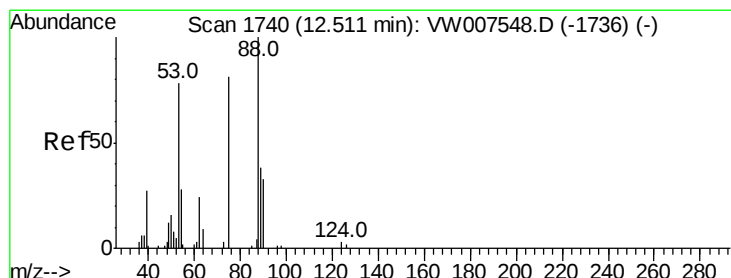
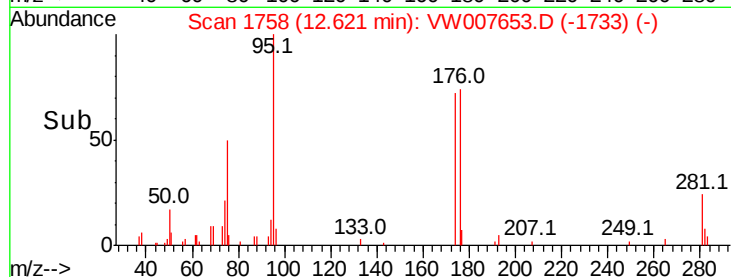
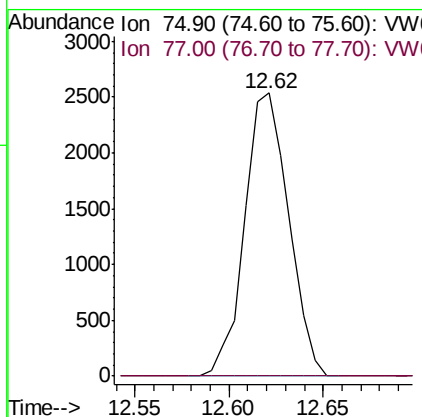
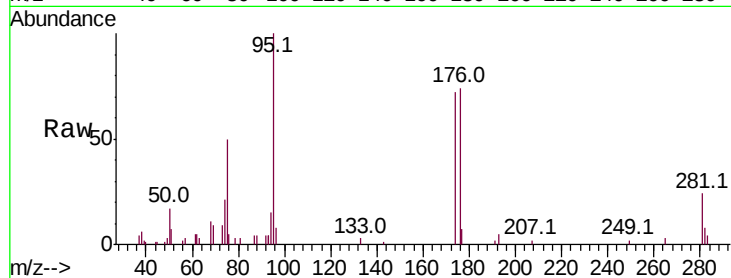
ClientSampleId :

Tot Ion: 75 Resp: 4114

Ion Ratio Lower Upper

75 100

77 0.0 166.9 500.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 155.303 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007653.D

Acq: 18 Dec 2018 12:59

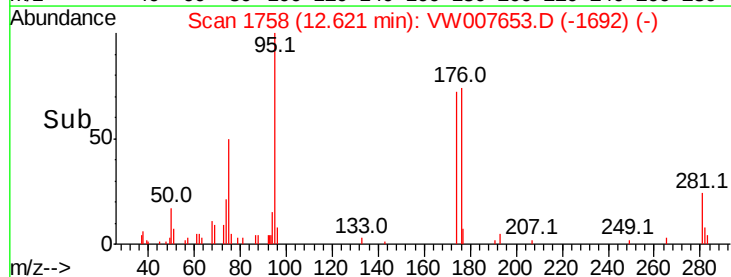
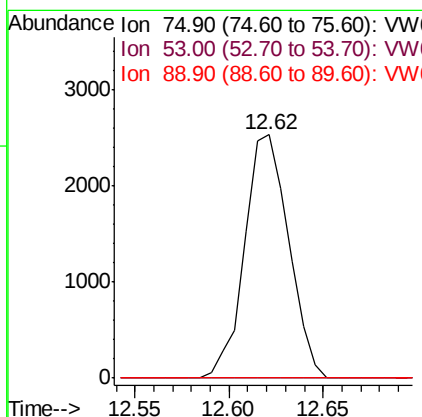
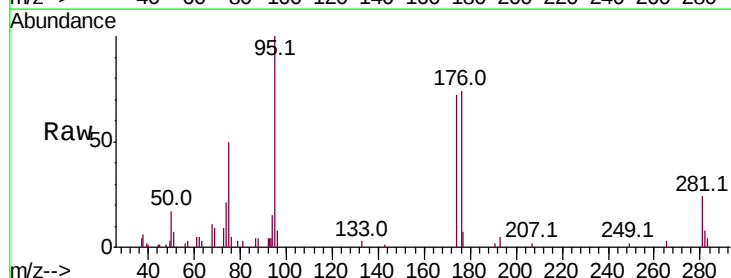
Tgt Ion: 75 Resp: 4114

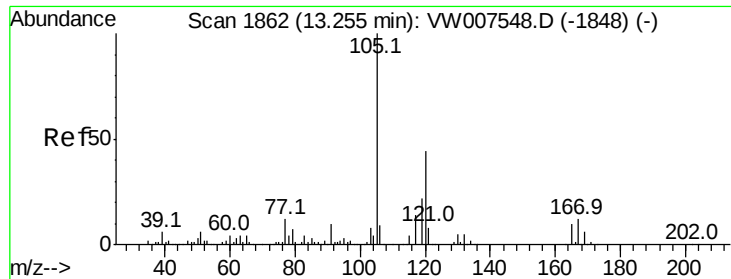
Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#

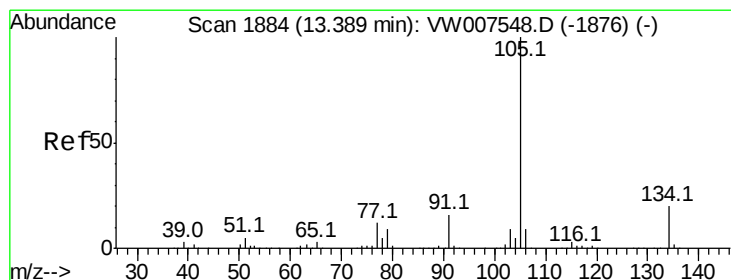
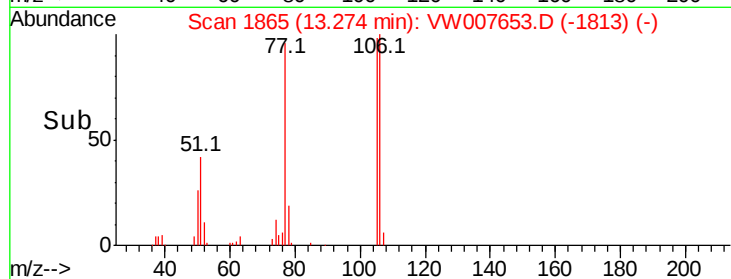
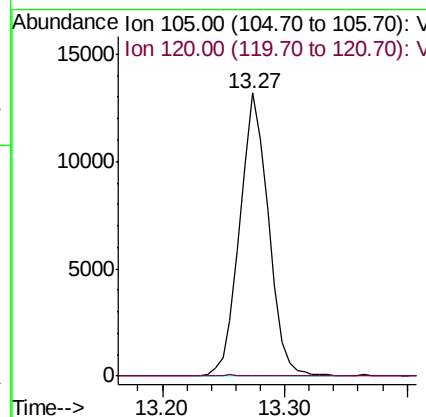
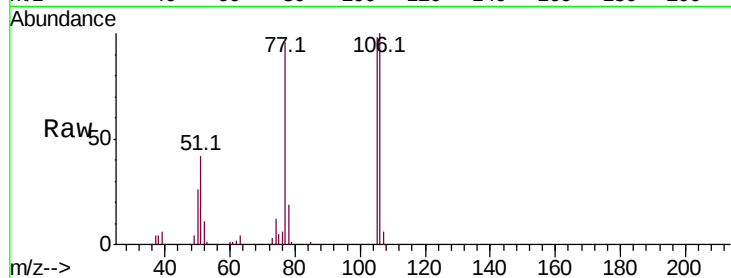




#84  
 1,2,4-Trimethylbenzene  
 Concen: 45.504 ug/l  
 RT: 13.27 min Scan# 1865  
 Delta R.T. 0.02 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

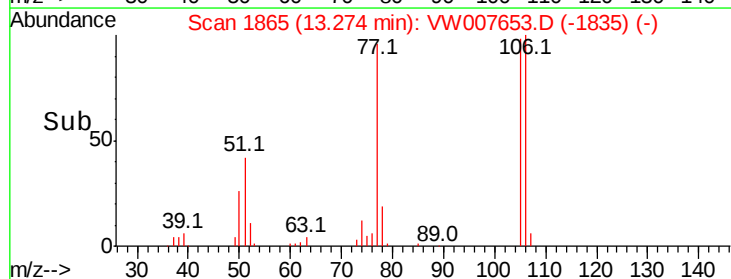
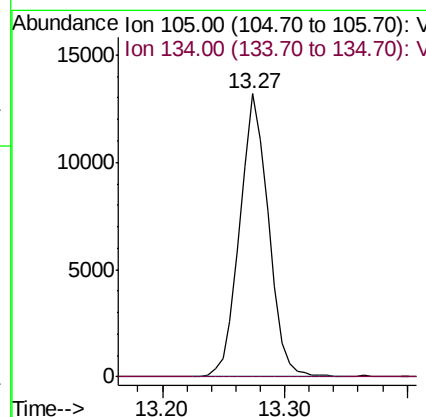
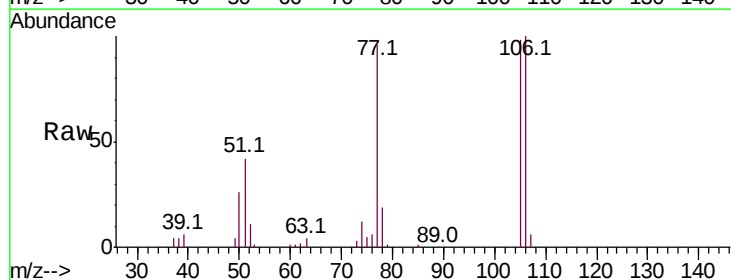
Instrument :  
 MSVOA\_W  
 ClientSampled :

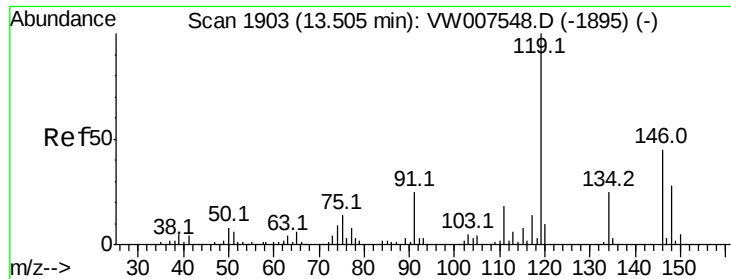
Tot Ion:105 Resp: 21396  
 Ion Ratio Lower Upper  
 105 100  
 120 0.1 22.6 67.7#



#85  
 sec-Butylbenzene  
 Concen: 38.929 ug/l  
 RT: 13.27 min Scan# 1865  
 Delta R.T. -0.12 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

Tgt Ion:105 Resp: 21396  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 11.1 33.3#

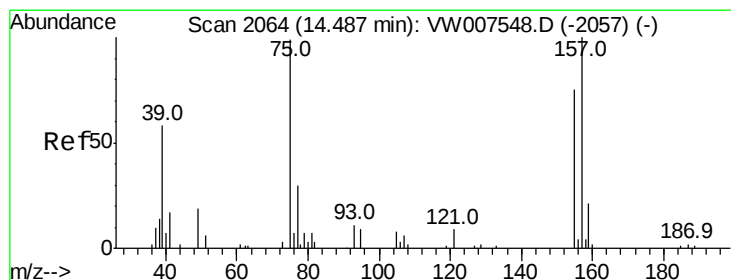
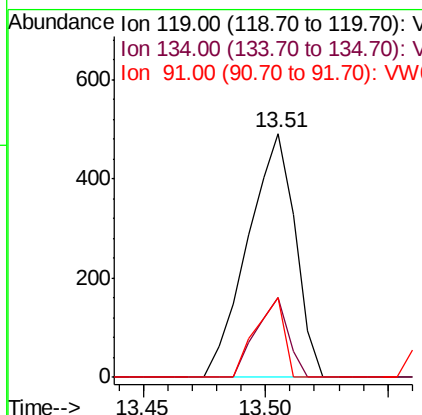
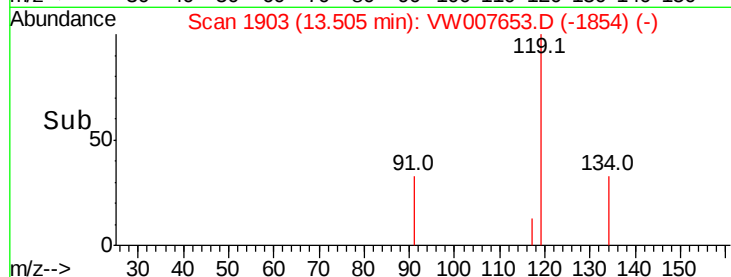
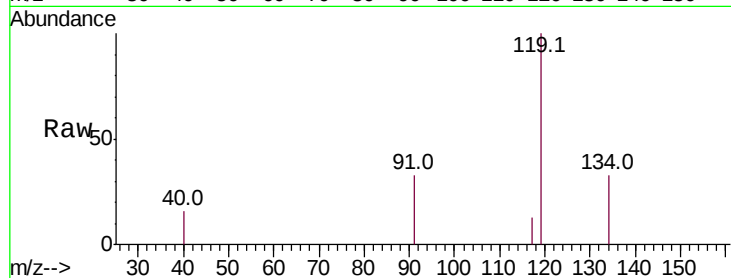




#86  
 p-Isopropyltoluene  
 Concen: 1.343 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. -0.00 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:119 Resp: 663  
 Ion Ratio Lower Upper  
 119 100  
 134 22.2 12.9 38.7  
 91 19.8 11.9 35.9



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 2.846 ug/l  
 RT: 14.40 min Scan# 2050  
 Delta R.T. -0.09 min  
 Lab File: VW007653.D  
 Acq: 18 Dec 2018 12:59

Tgt Ion: 75 Resp: 46  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 40.8 122.2#  
 157 0.0 51.1 153.4#

