

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW101218\  
 Data File : VW006026.D  
 Acq On : 11 Oct 2018 12:37  
 Operator : VA/AP  
 Sample : J5375-01RE  
 Misc : 4.95G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 0688-KM-PA-COMPARE

Quant Time: Oct 11 15:47:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 43252    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 63469    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 49259    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 18410    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 22288    | 53.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.16% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 20594    | 50.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.64% |      |
| 50) Toluene-d8              | 10.33  | 98  | 71747    | 46.02 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.04%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 21568    | 36.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 72.72%  |      |

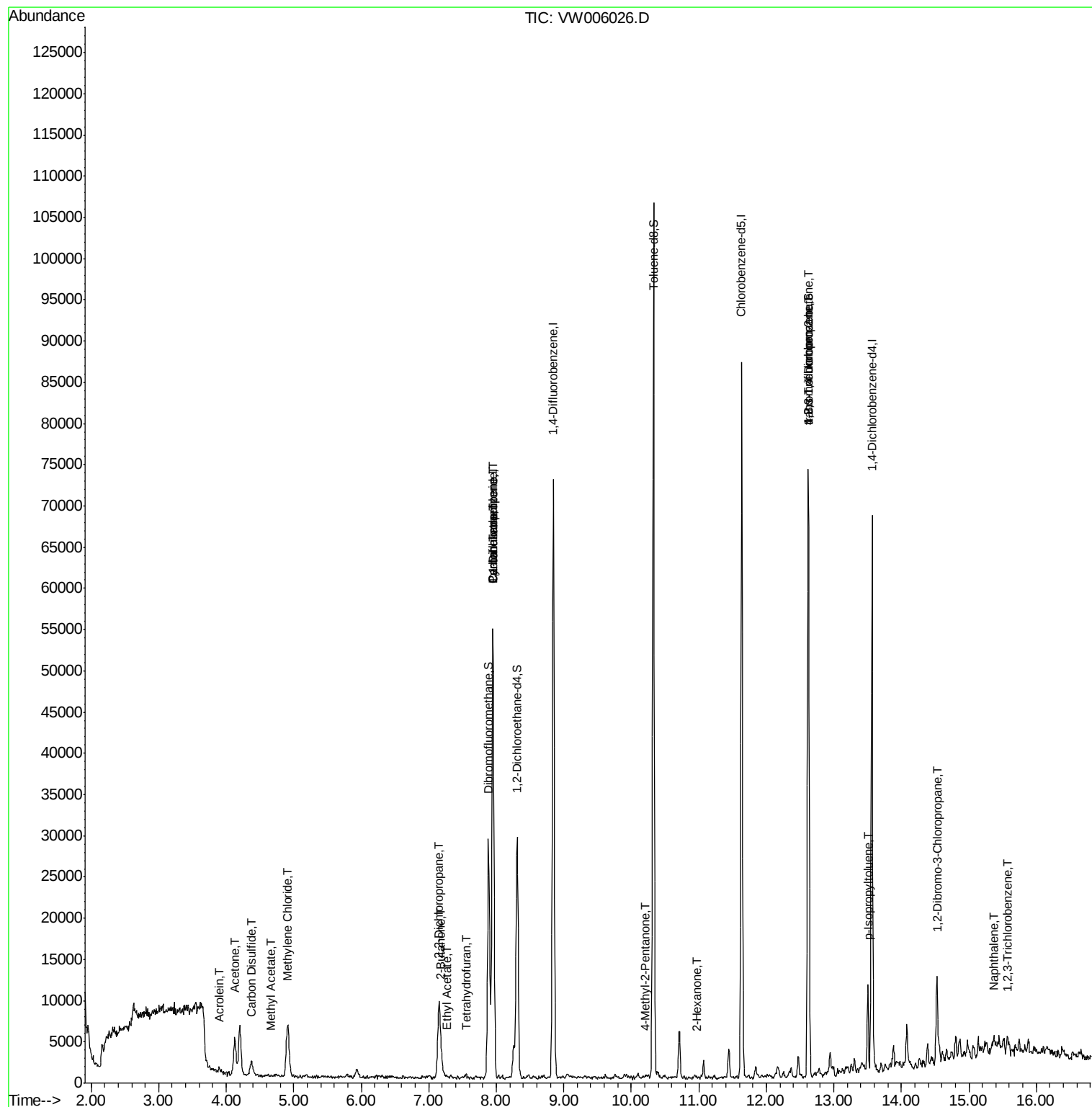
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 3.89  | 56   | 282      | 10.28  | ug/l   | 94     |
| 16) Acetone                    | 4.12  | 43   | 8399     | 100.15 | ug/l   | 90     |
| 17) Carbon Disulfide           | 4.37  | 76   | 3366     | 2.92   | ug/l # | 94     |
| 18) Methyl Acetate             | 4.67  | 43   | 300      | 1.42   | ug/l # | 51     |
| 20) Methylene Chloride         | 4.91  | 84   | 4820     | 11.47  | ug/l # | 88     |
| 25) 2-Butanone                 | 7.18  | 43   | 3484     | 29.21  | ug/l # | 78     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 782      | 1.50   | ug/l # | 52     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 217      | 2.88   | ug/l # | 41     |
| 31) Cyclohexane                | 7.95  | 56   | 1002     | 1.36   | ug/l # | 31     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 2815     | 4.63   | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.27  | 43   | 333      | 1.29   | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 4149     | 6.35   | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 272      | 1.04   | ug/l # | 66     |
| 59) 2-Hexanone                 | 10.97 | 43   | 325      | 1.73   | ug/l # | 60     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 10698    | 65.05  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 10698    | 137.33 | ug/l # | 11     |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 5385     | 4.23   | ug/l   | 98     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.53 | 75   | 3789     | 92.26  | ug/l # | 1      |
| 95) Naphthalene                | 15.37 | 128  | 1729     | 2.30   | ug/l # | 85     |
| 96) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 458      | 1.21   | ug/l # | 84     |

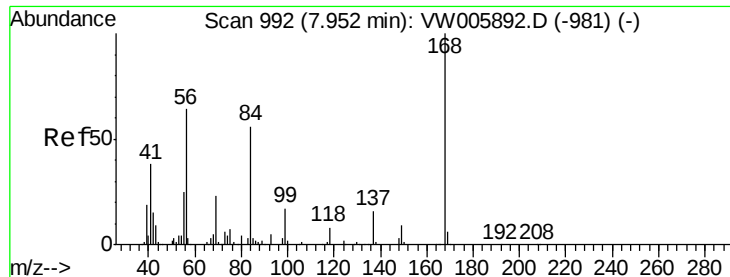
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 09 02:14:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

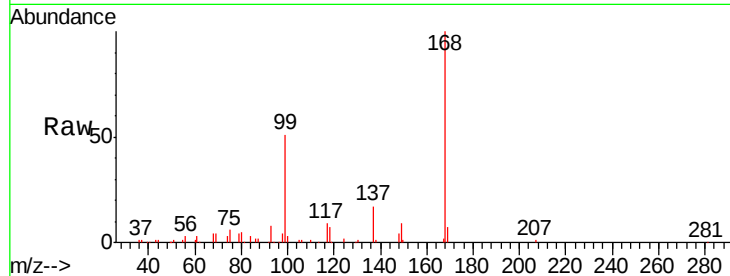
0688-KM-PA-COMP

Tgt Ion:168 Resp: 43252

Ion Ratio Lower Upper

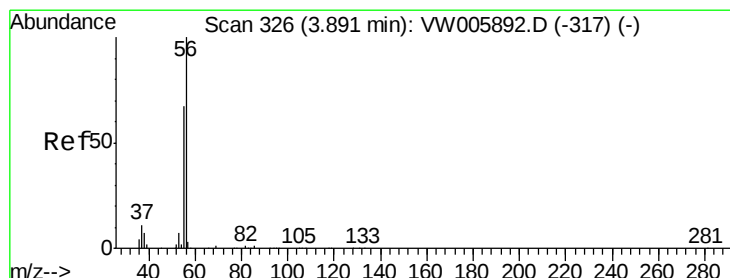
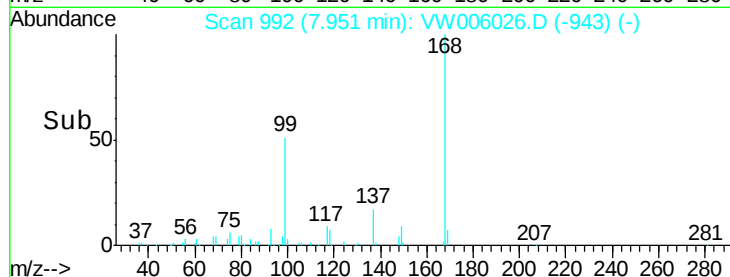
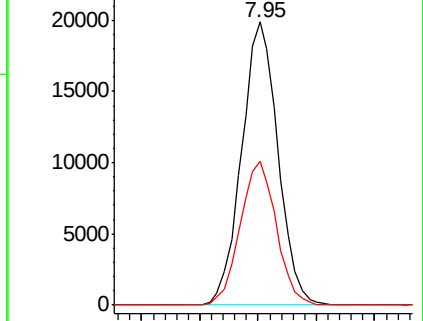
168 100

99 51.0 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#13

Acrolein

Concen: 10.28 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW006026.D

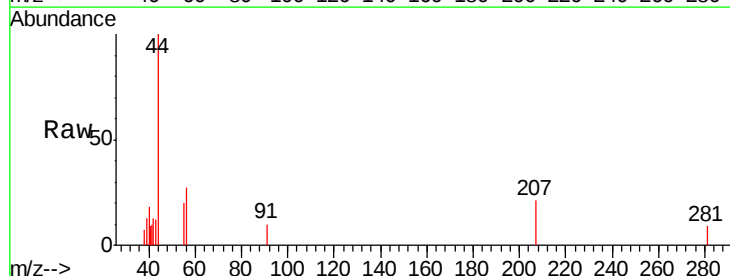
Acq: 11 Oct 2018 12:37

Tgt Ion: 56 Resp: 282

Ion Ratio Lower Upper

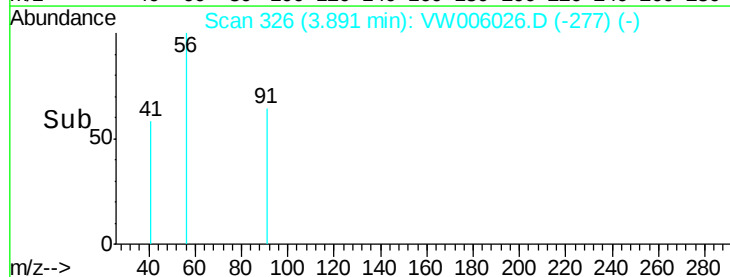
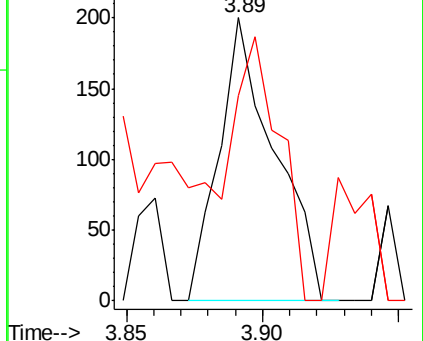
56 100

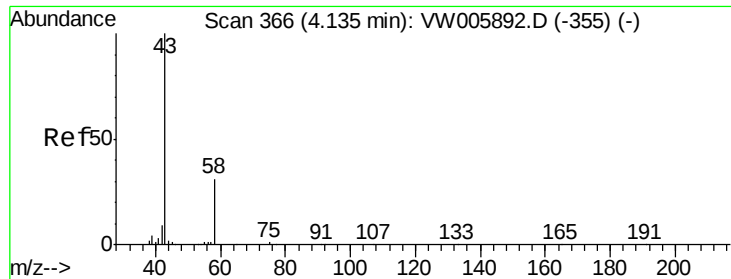
55 73.4 54.6 82.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW





#16

Acetone

Concen: 100.15 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

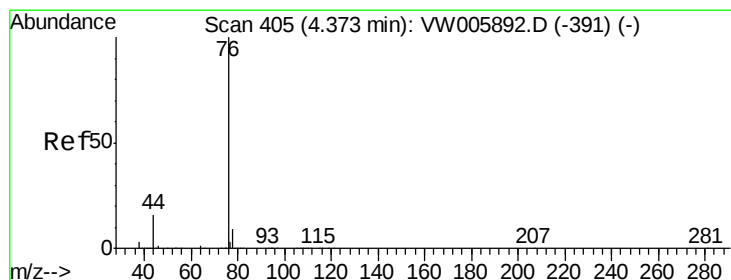
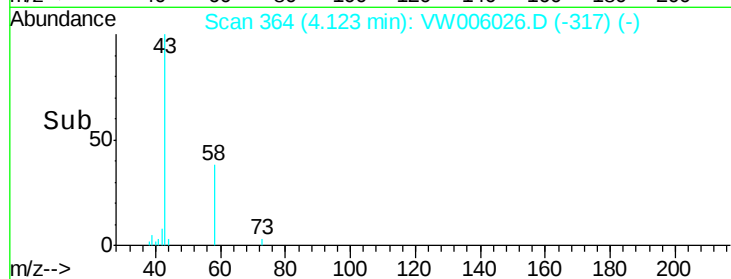
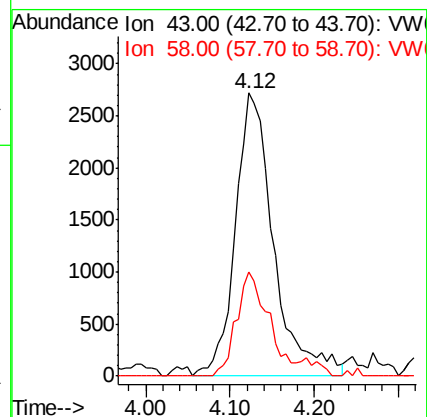
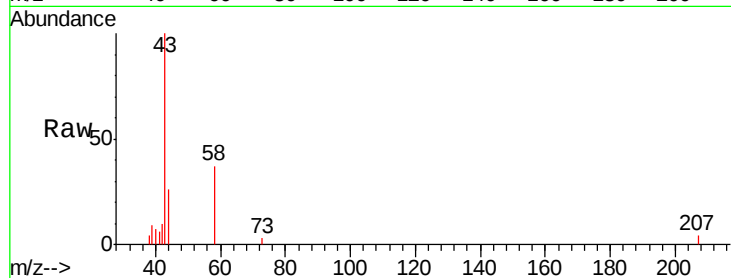
0688-KM-PA-COMP

Tgt Ion: 43 Resp: 8399

Ion Ratio Lower Upper

43 100

58 36.6 24.7 37.1



#17

Carbon Disulfide

Concen: 2.92 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW006026.D

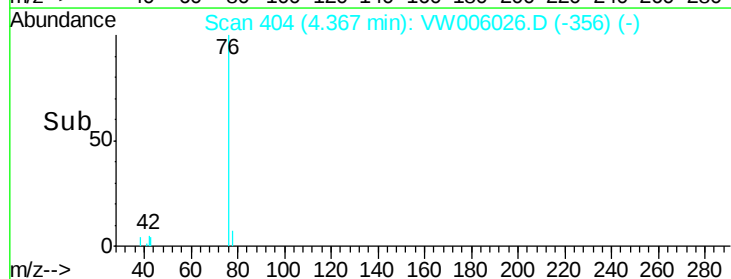
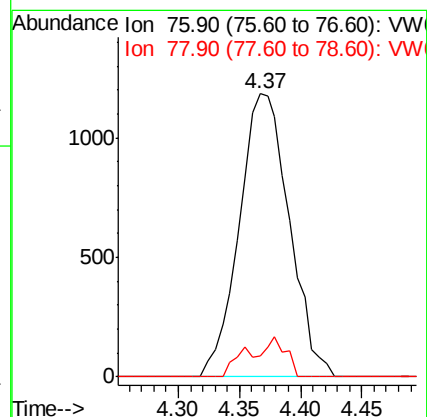
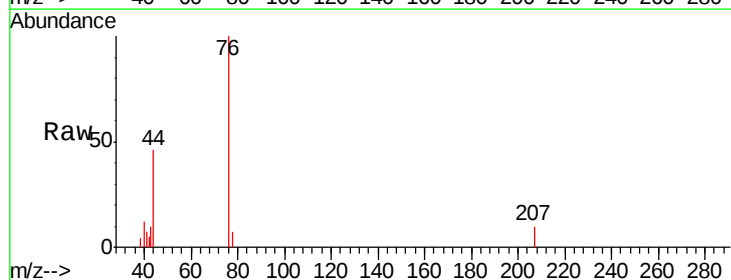
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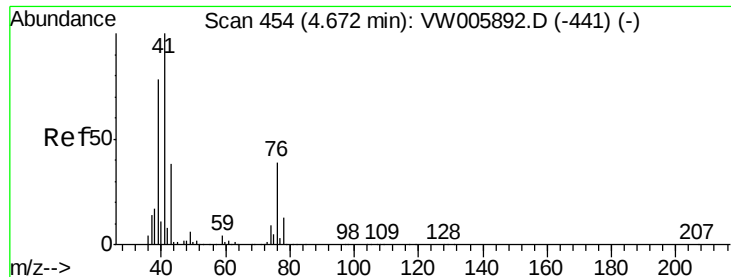
Tgt Ion: 76 Resp: 3366

Ion Ratio Lower Upper

76 100

78 7.2 7.4 11.0#

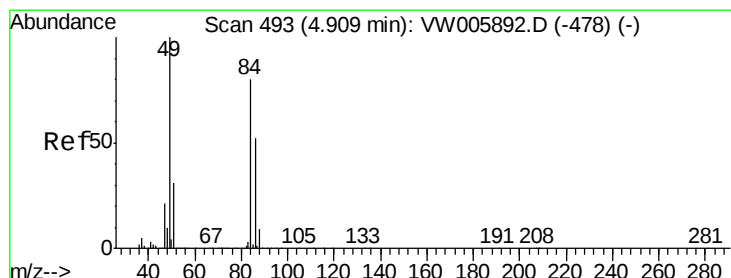
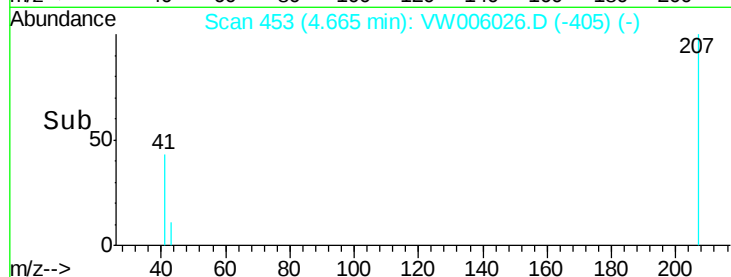
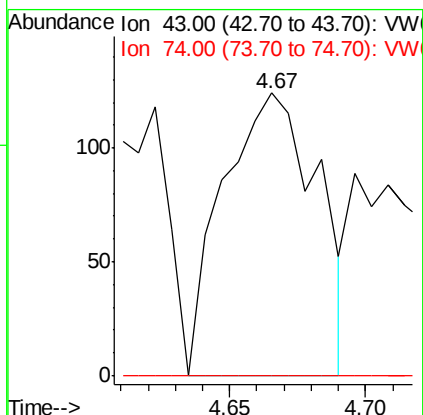
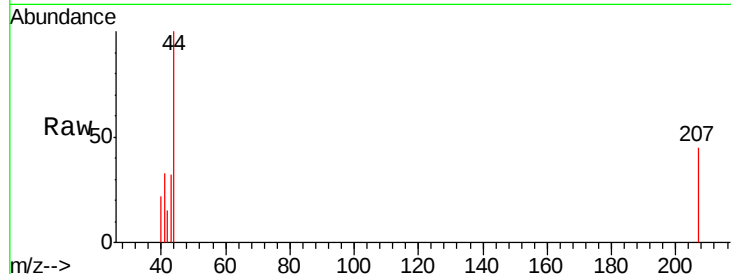




#18  
Methyl Acetate  
Concen: 1.42 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

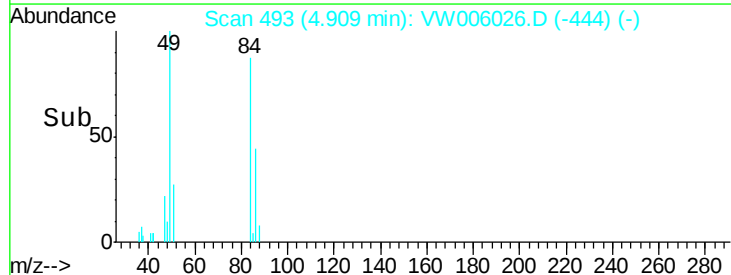
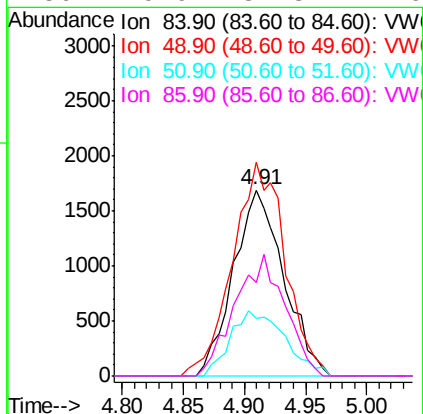
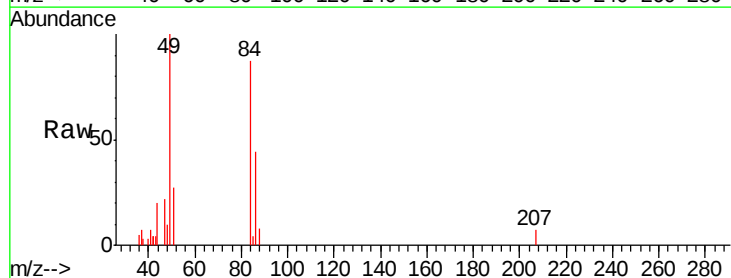
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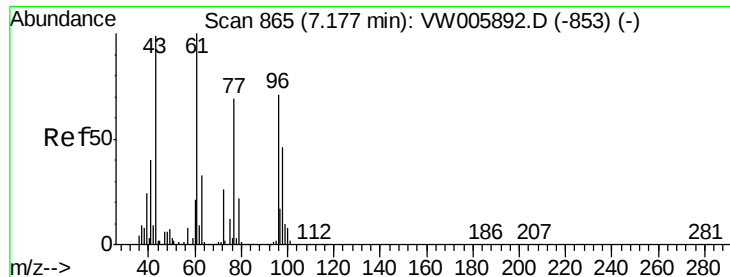
Tgt Ion: 43 Resp: 300  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.2 28.8#



#20  
Methylene Chloride  
Concen: 11.47 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.00 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Tgt Ion: 84 Resp: 4820  
Ion Ratio Lower Upper  
84 100  
49 114.7 99.9 149.9  
51 30.8 31.1 46.7#  
86 49.9 51.8 77.6#





#25

2-Butanone

Concen: 29.21 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

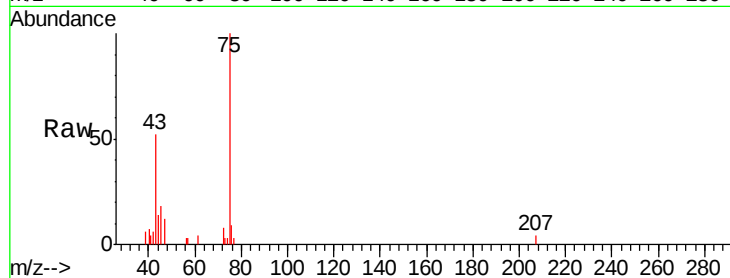
0688-KM-PA-COMP

Tgt Ion: 43 Resp: 3484

Ion Ratio Lower Upper

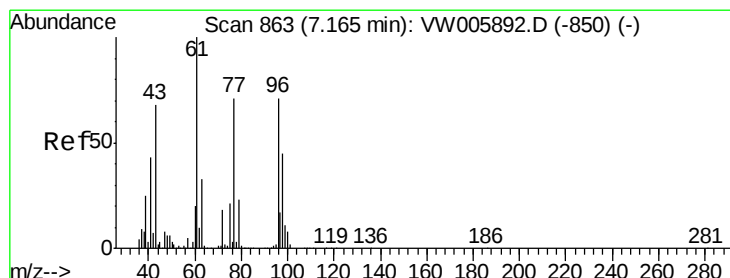
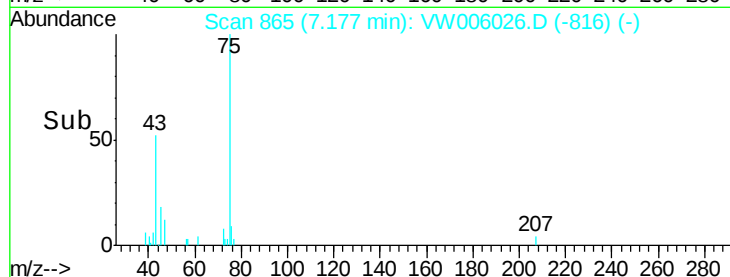
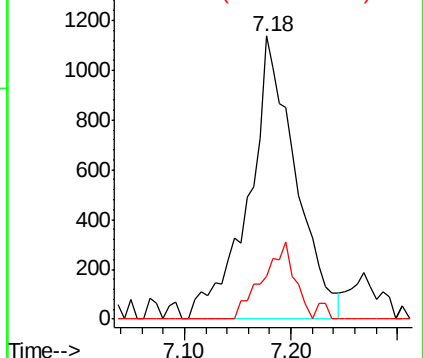
43 100

72 15.1 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.50 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW006026.D

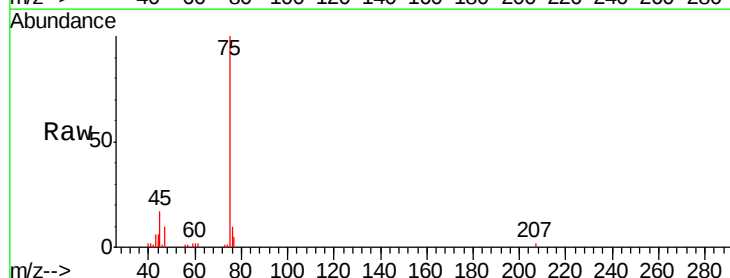
Acq: 11 Oct 2018 12:37

Tgt Ion: 77 Resp: 782

Ion Ratio Lower Upper

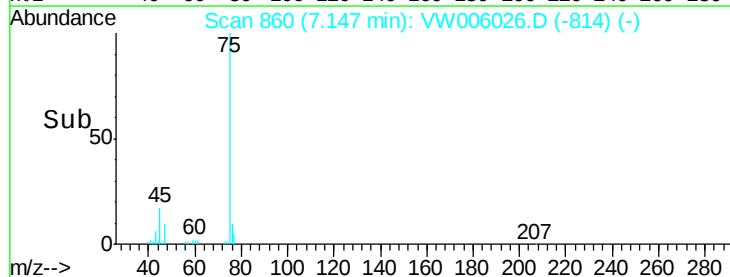
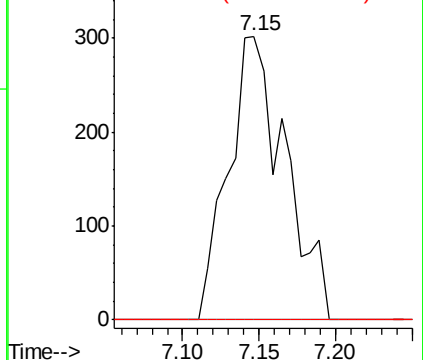
77 100

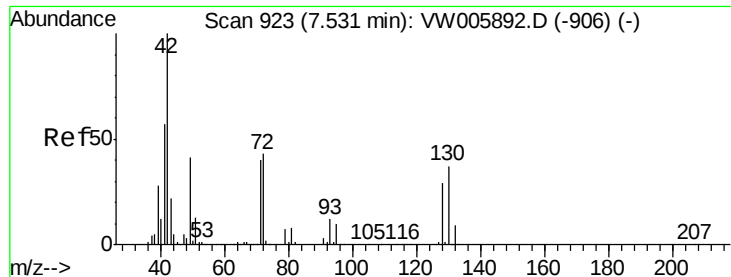
97 0.0 11.9 35.7#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

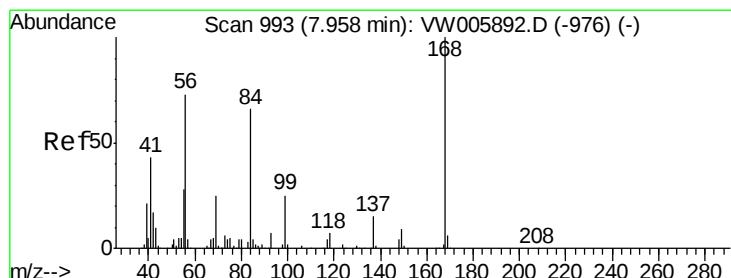
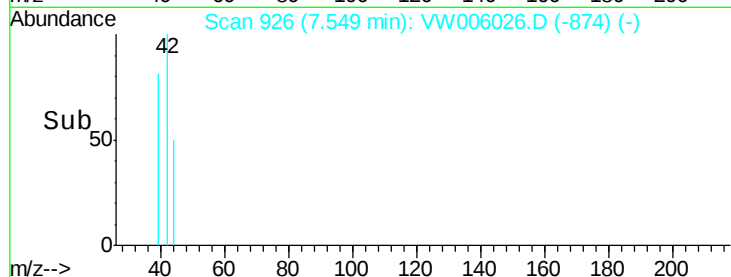
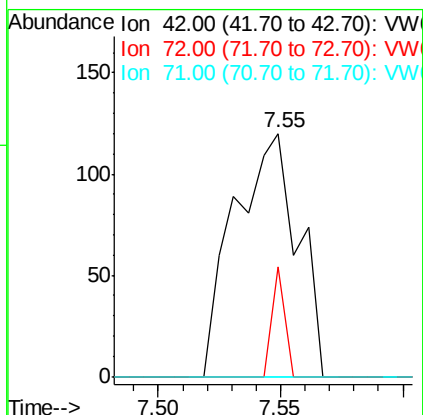
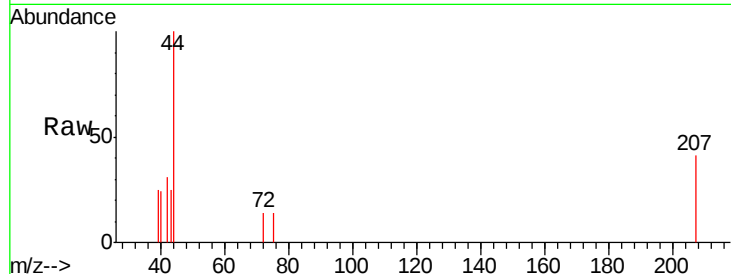




#29  
Tetrahydrofuran  
Concen: 2.88 ug/l  
RT: 7.55 min Scan# 926  
Delta R.T. 0.02 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

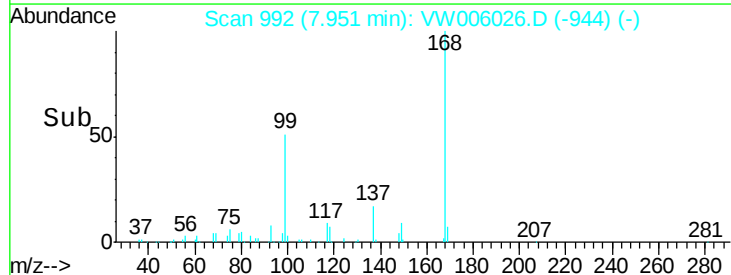
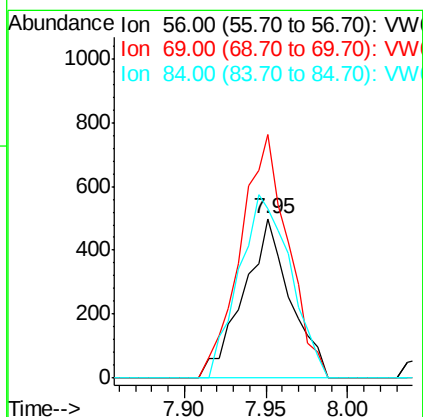
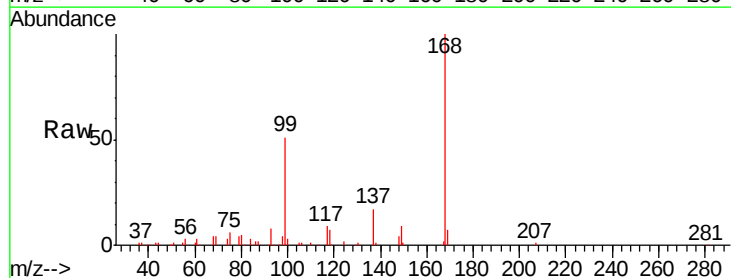
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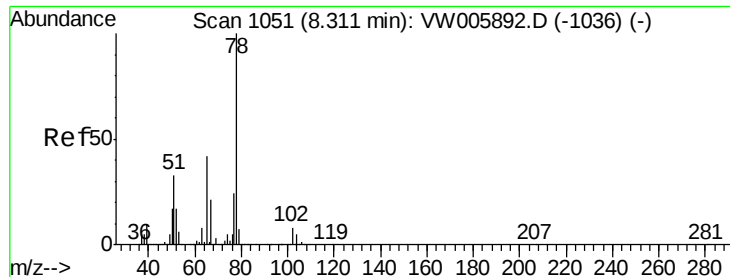
Tgt Ion: 42 Resp: 217  
Ion Ratio Lower Upper  
42 100  
72 9.2 34.6 51.8#  
71 0.0 32.6 49.0#



#31  
Cyclohexane  
Concen: 1.36 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Tgt Ion: 56 Resp: 1002  
Ion Ratio Lower Upper  
56 100  
69 152.7 27.9 41.9#  
84 106.6 72.3 108.5

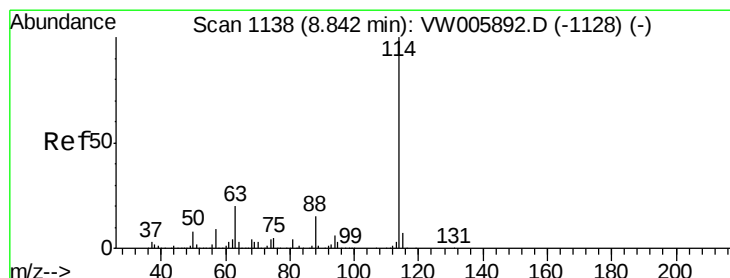
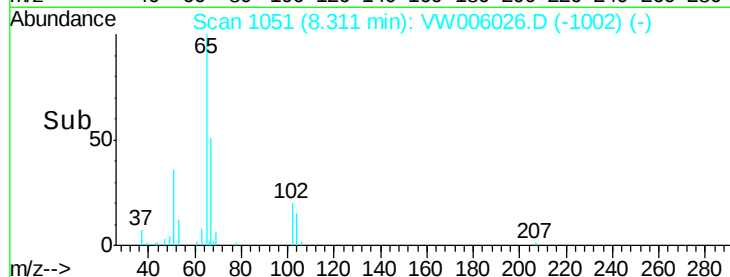
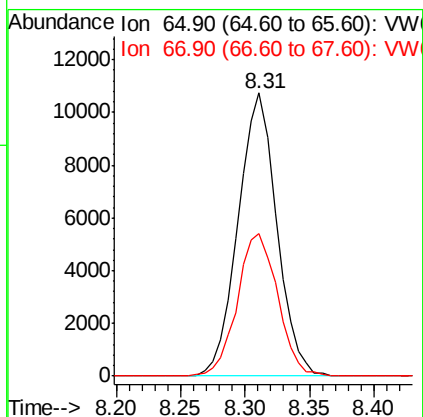
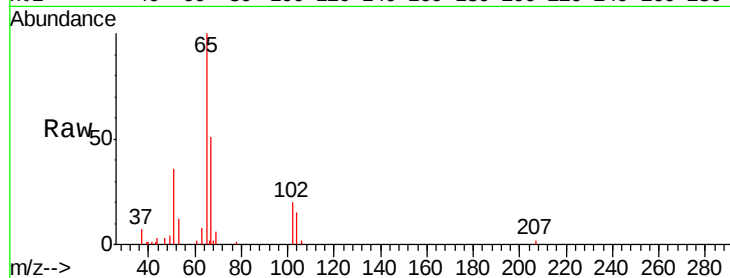




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.08 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW006026.D  
 Acq: 11 Oct 2018 12:37

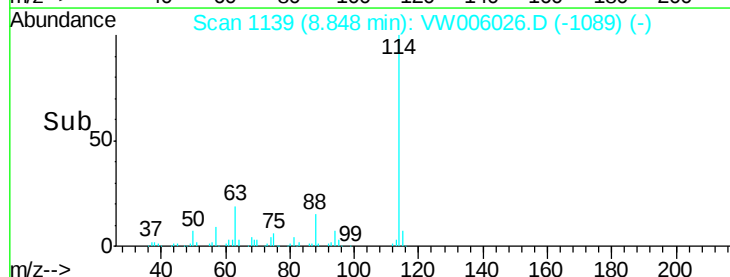
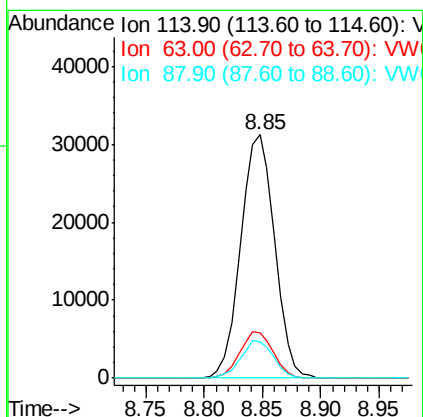
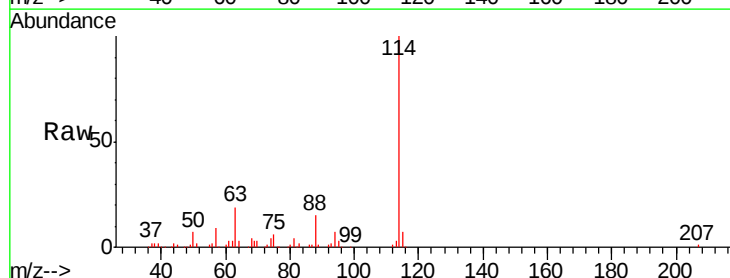
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 MSVOA\_W  
 ClientSampleId :  
 0688-KM-PA-COMP

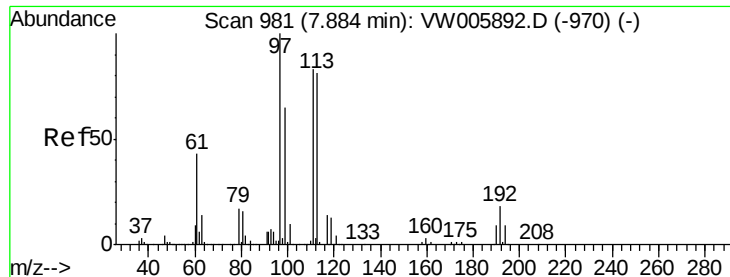
Tgt Ion: 65 Resp: 22288  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.01 min  
 Lab File: VW006026.D  
 Acq: 11 Oct 2018 12:37

Tgt Ion: 114 Resp: 63469  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 39.2  
 88 14.7 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.82 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

0688-KM-PA-COMP

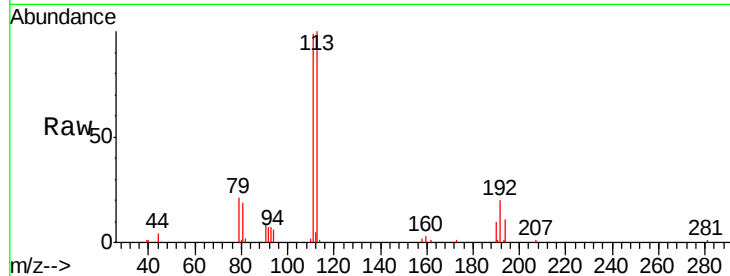
Tgt Ion: 113 Resp: 20594

Ion Ratio Lower Upper

113 100

111 101.1 82.0 123.0

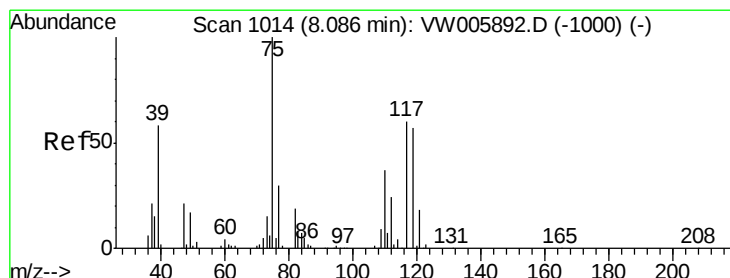
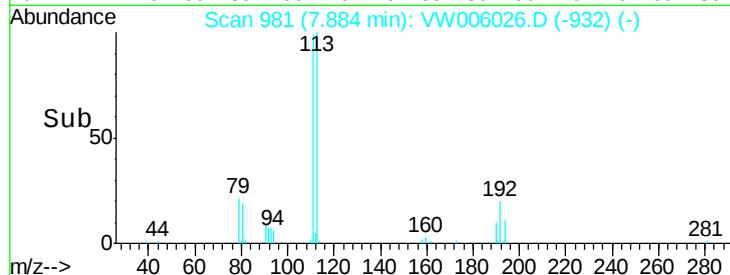
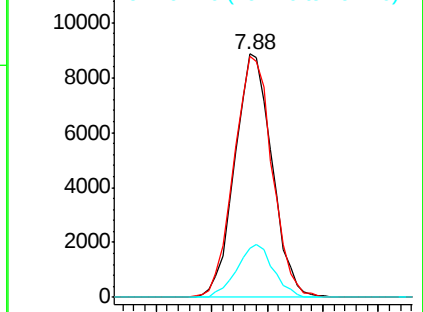
192 21.3 18.3 27.5



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: 4.63 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

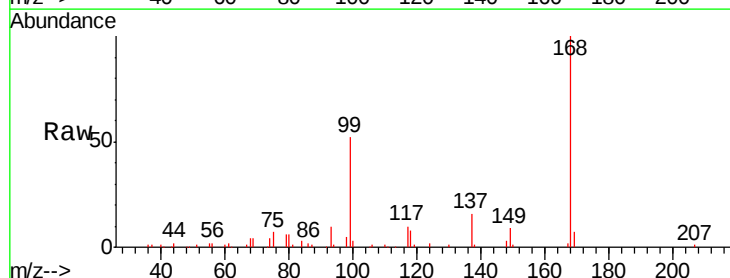
Tgt Ion: 75 Resp: 2815

Ion Ratio Lower Upper

75 100

110 9.6 18.6 56.0#

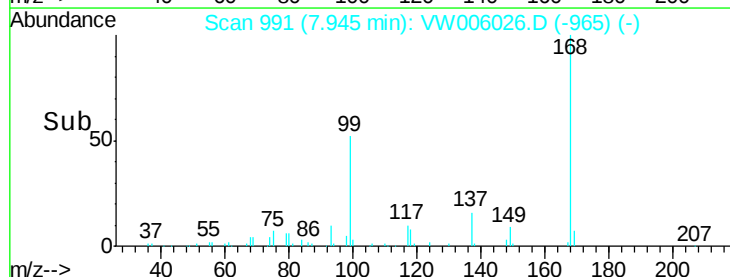
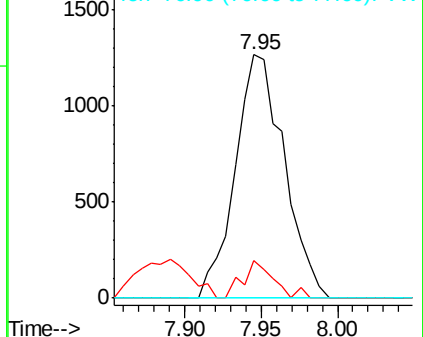
77 0.0 24.7 37.1#

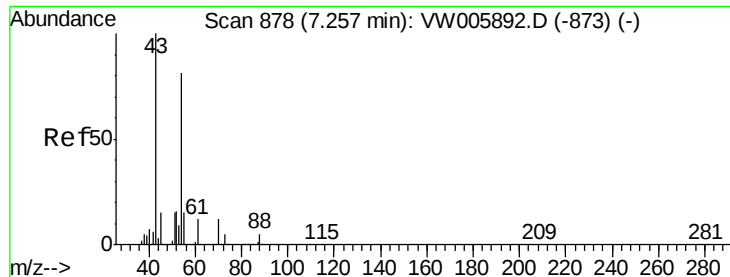


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

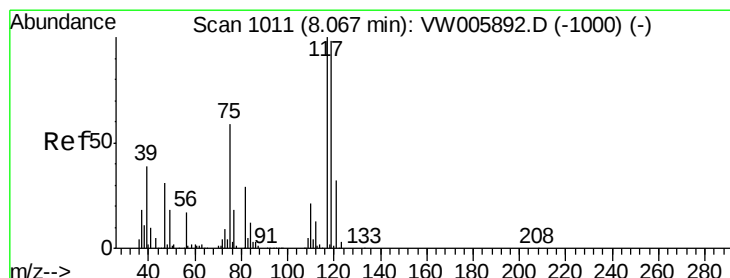
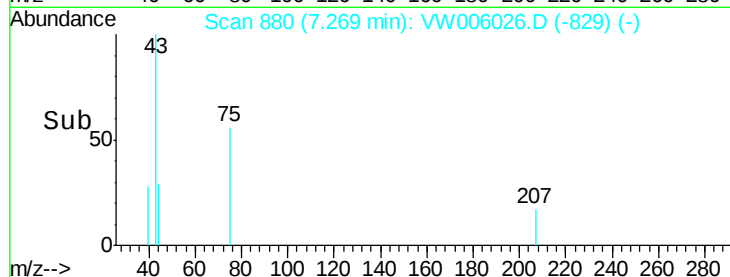
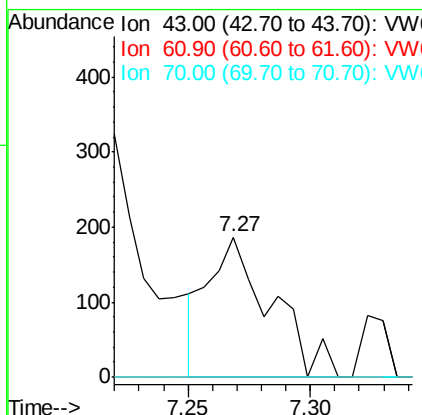
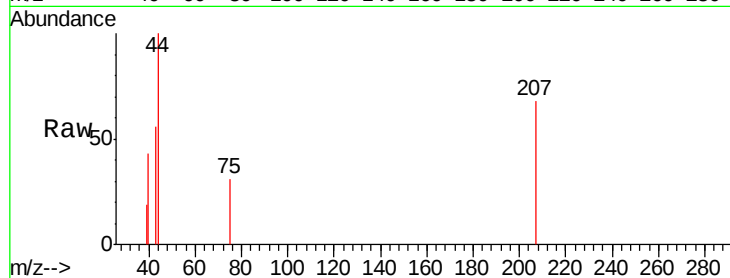




#37  
Ethyl Acetate  
Concen: 1.29 ug/l  
RT: 7.27 min Scan# 880  
Delta R.T. 0.01 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

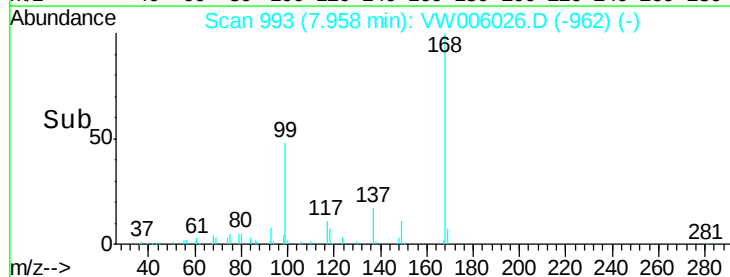
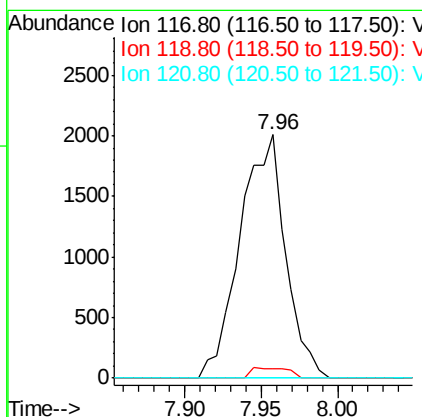
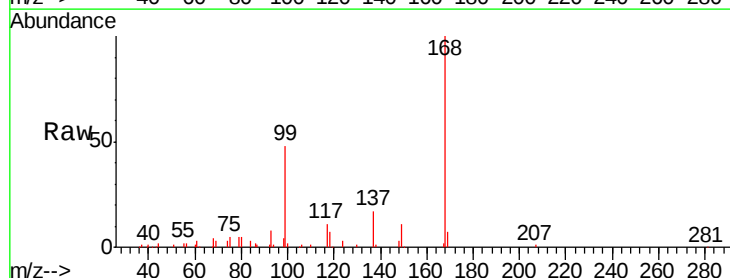
Instrument :  
MSVOA\_W  
ClientSampleId :  
0688-KM-PA-COMP

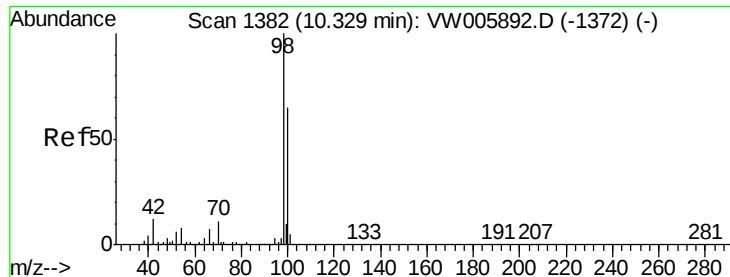
Tgt Ion: 43 Resp: 333  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 16.0#  
70 0.0 8.6 13.0#



#38  
Carbon Tetrachloride  
Concen: 6.35 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.11 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Tgt Ion: 117 Resp: 4149  
Ion Ratio Lower Upper  
117 100  
119 3.8 78.6 117.8#  
121 0.0 25.3 37.9#





#50

Toluene-d8

Concen: 46.02 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

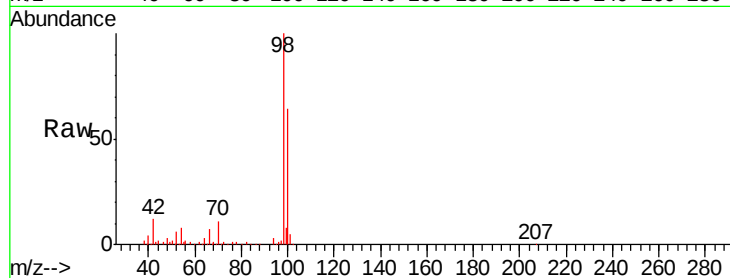
0688-KM-PA-COMP

Tgt Ion: 98 Resp: 71747

Ion Ratio Lower Upper

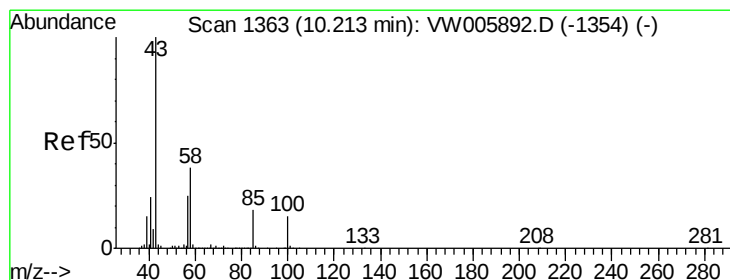
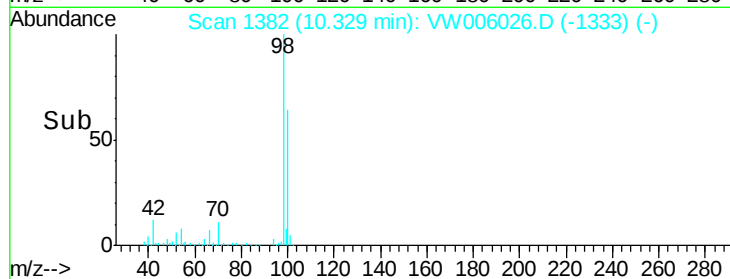
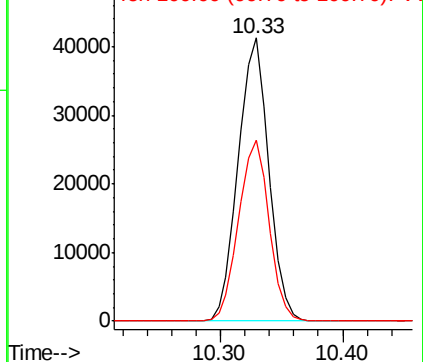
98 100

100 63.7 51.9 77.9



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: 1.04 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW006026.D

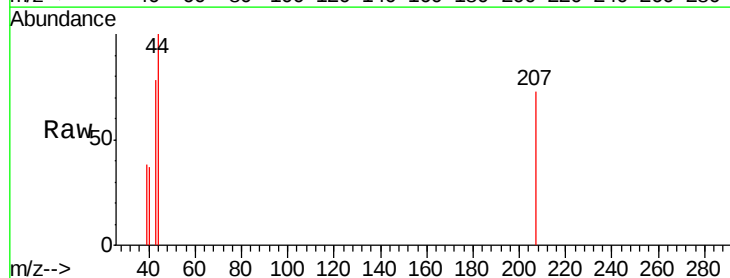
Acq: 11 Oct 2018 12:37

Tgt Ion: 43 Resp: 272

Ion Ratio Lower Upper

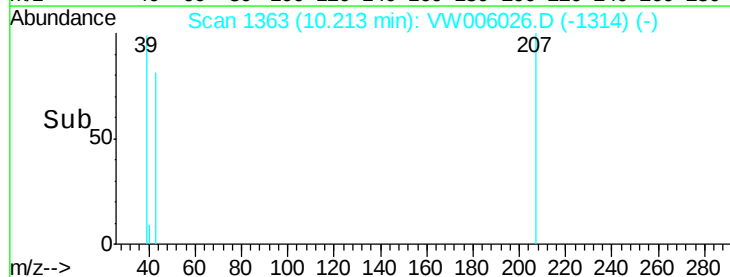
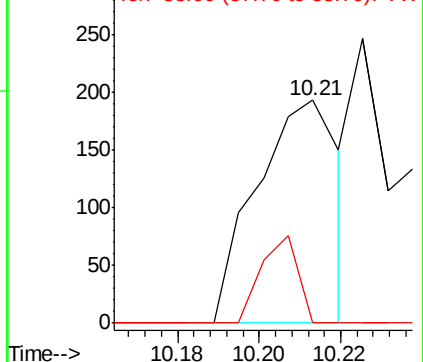
43 100

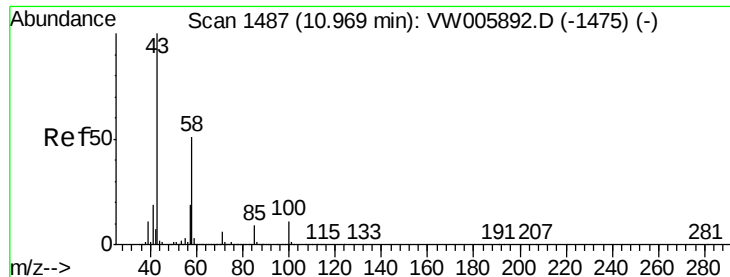
58 17.3 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#59

2-Hexanone

Concen: 1.73 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

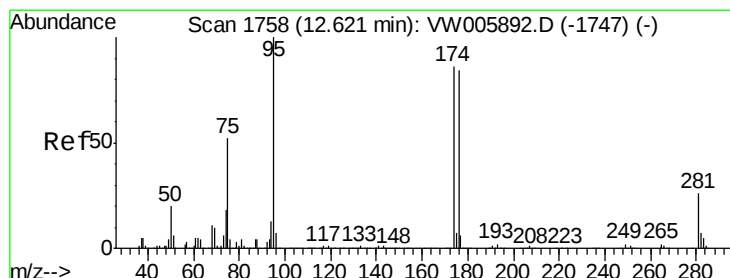
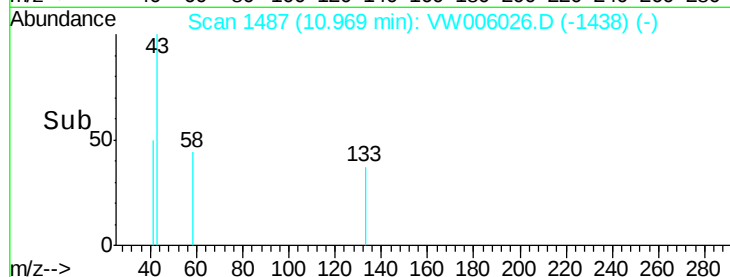
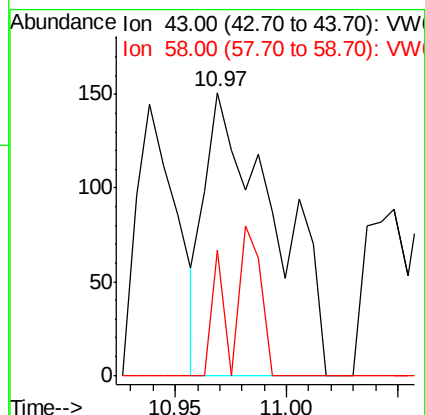
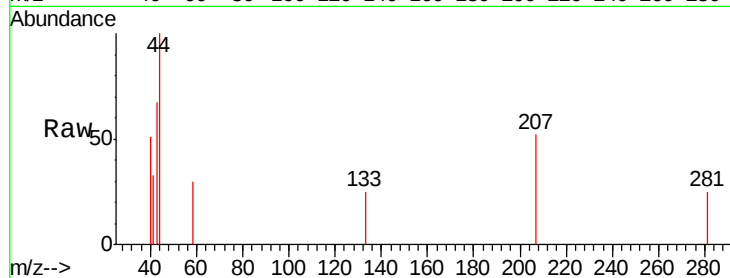
0688-KM-PA-COMP

Tgt Ion: 43 Resp: 325

Ion Ratio Lower Upper

43 100

58 23.7 25.7 77.1#



#62

4-Bromofluorobenzene

Concen: 36.36 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

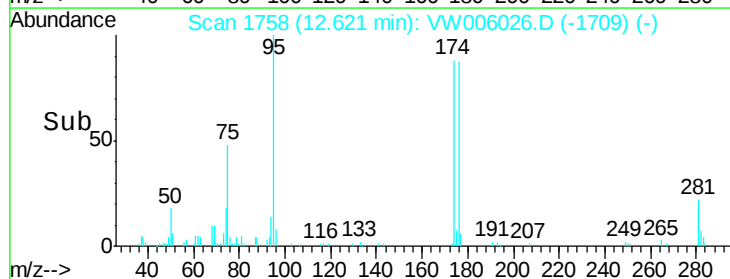
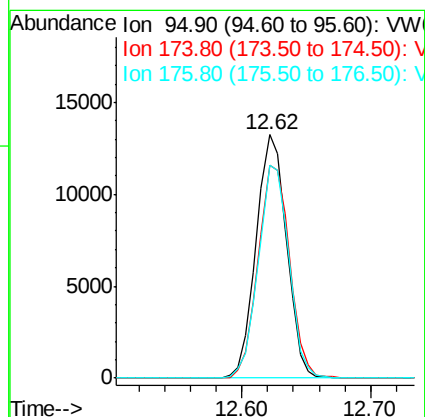
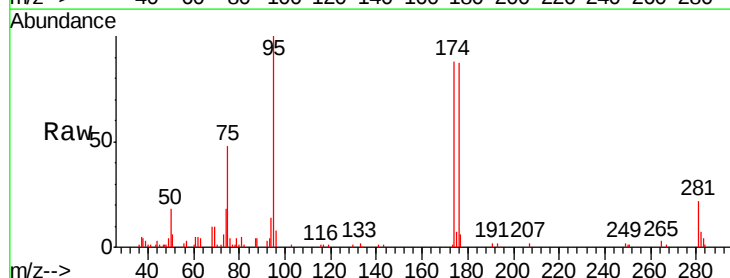
Tgt Ion: 95 Resp: 21568

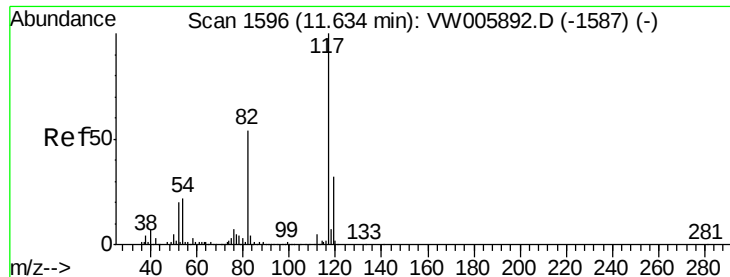
Ion Ratio Lower Upper

95 100

174 90.6 0.0 176.4

176 88.0 0.0 173.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

Instrument :

MSVOA\_W

ClientSampleId :

0688-KM-PA-COMP

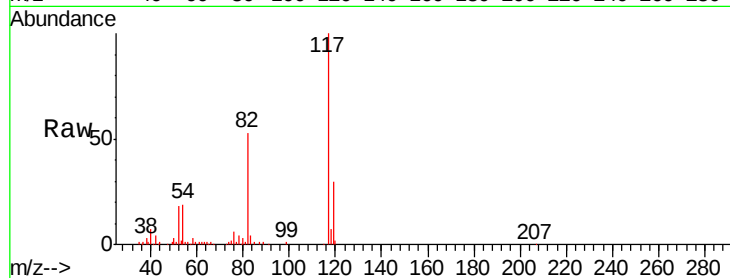
Tgt Ion:117 Resp: 49259

Ion Ratio Lower Upper

117 100

82 52.5 43.5 65.3

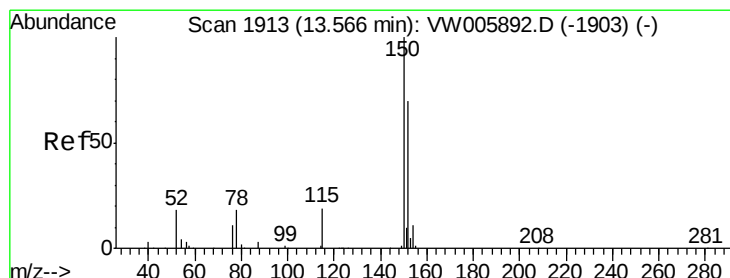
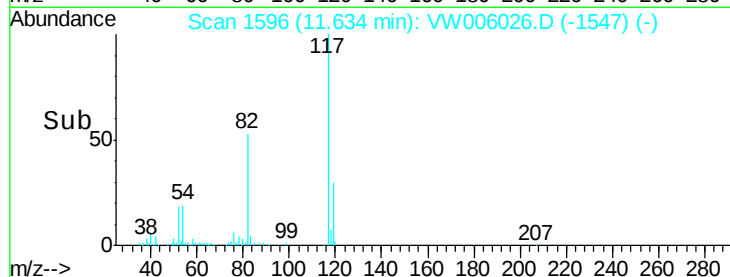
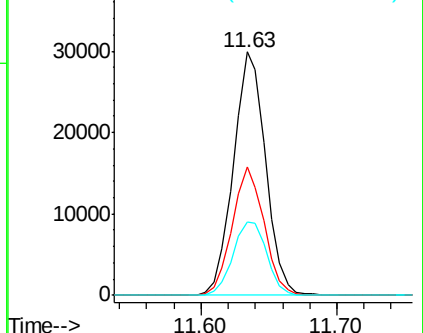
119 30.3 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW006026.D

Acq: 11 Oct 2018 12:37

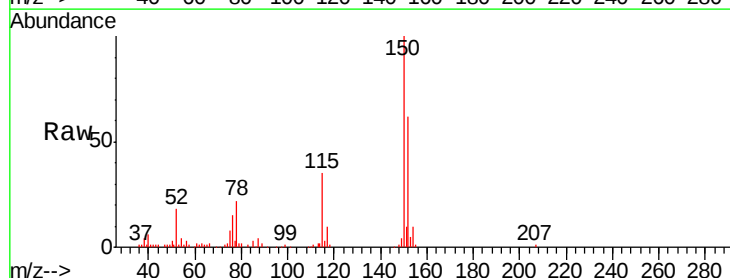
Tgt Ion:152 Resp: 18410

Ion Ratio Lower Upper

152 100

115 57.1 28.3 85.0

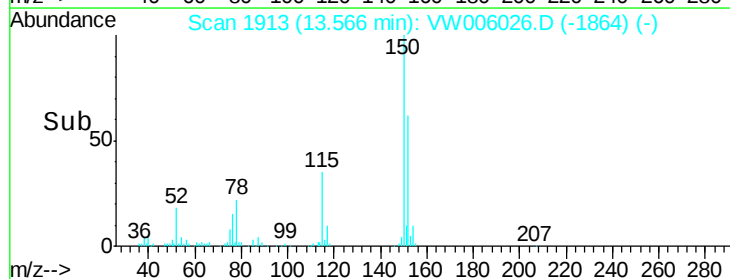
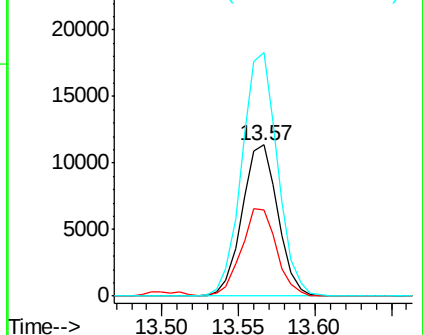
150 160.7 0.0 349.2

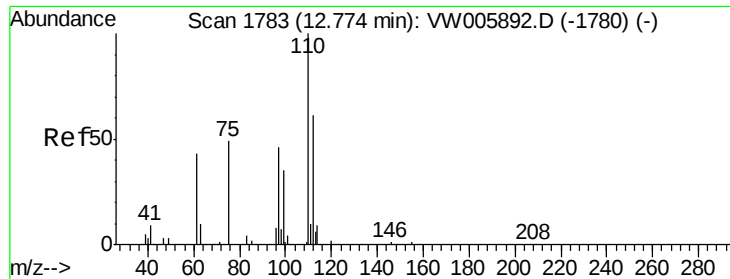


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

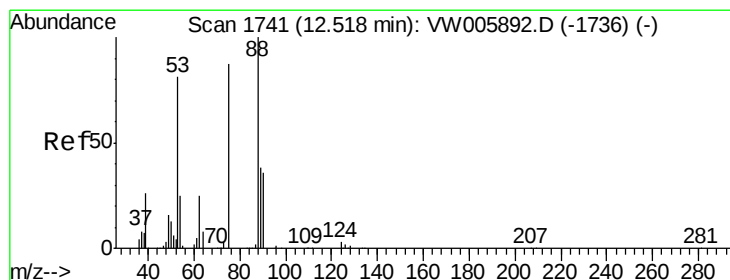
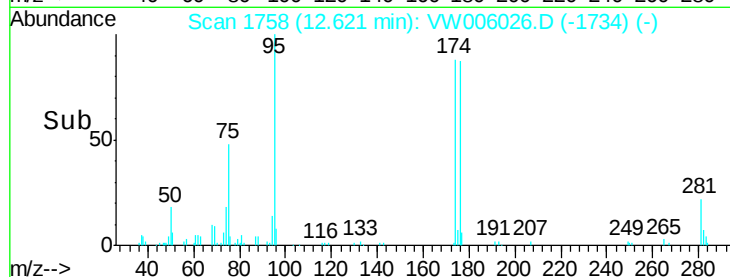
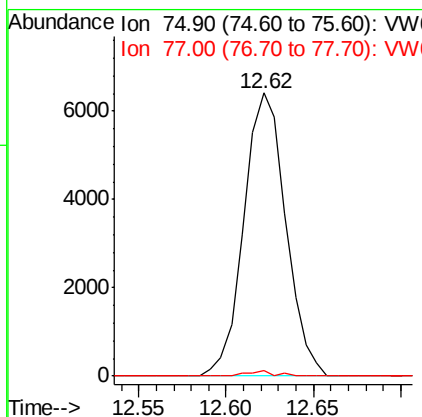
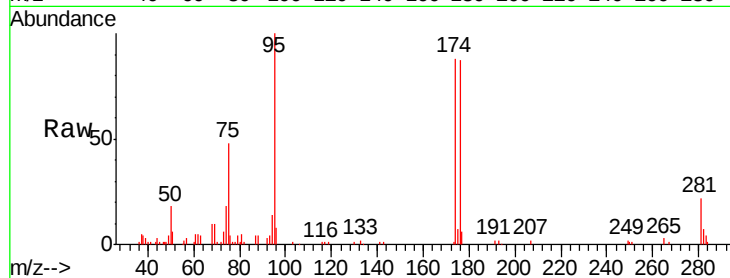




#76  
 1,2,3-Trichloropropane  
 Concen: 65.05 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW006026.D  
 Acq: 11 Oct 2018 12:37

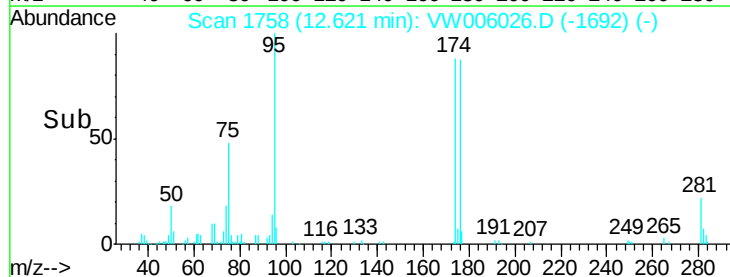
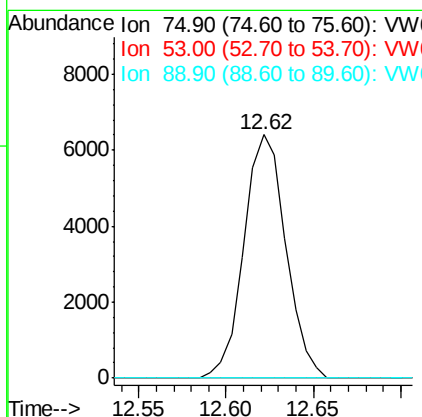
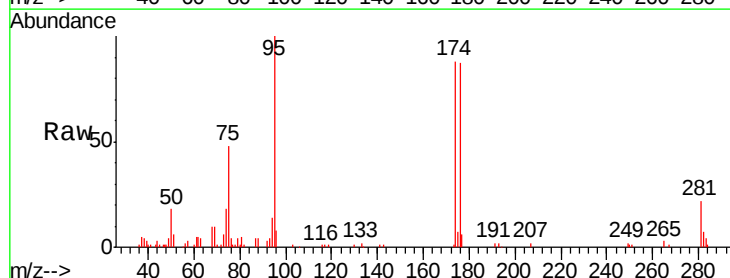
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 0688-KM-PA-COMP

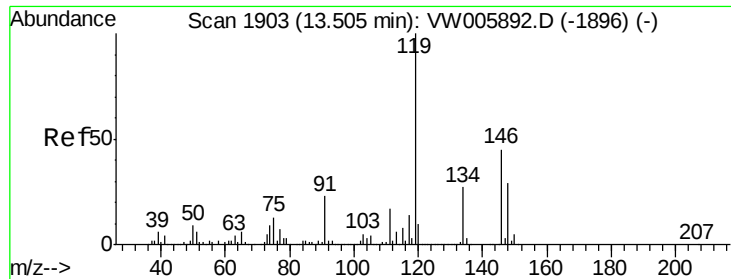
Tgt Ion: 75 Resp: 10698  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 137.33 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.10 min  
 Lab File: VW006026.D  
 Acq: 11 Oct 2018 12:37

Tgt Ion: 75 Resp: 10698  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 76.5 114.7#  
 89 0.0 37.6 56.4#

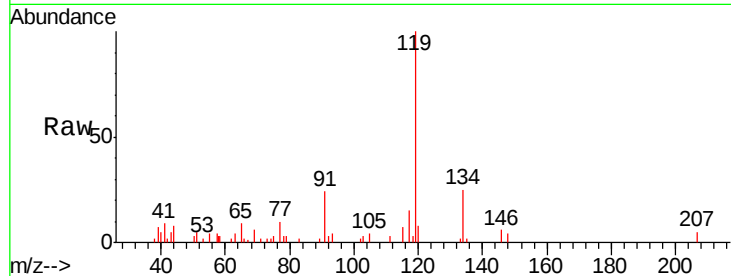




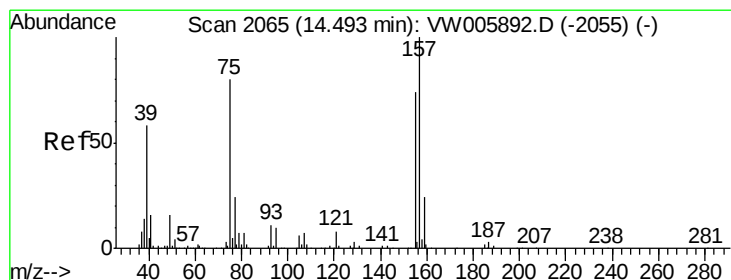
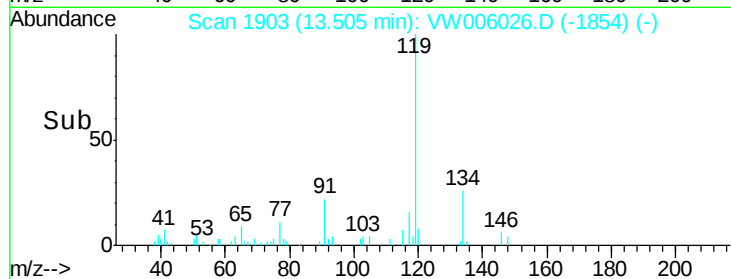
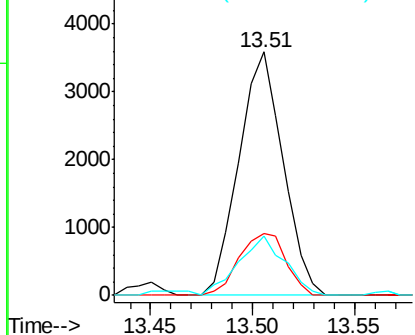
#86  
p-Isopropyltoluene  
Concen: 4.23 ug/l  
RT: 13.51 min Scan# 1903  
Delta R.T. -0.00 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
0688-KM-PA-COMP

Tgt Ion: 119 Resp: 5385  
Ion Ratio Lower Upper  
119 100  
134 26.8 13.5 40.5  
91 25.4 11.9 35.5

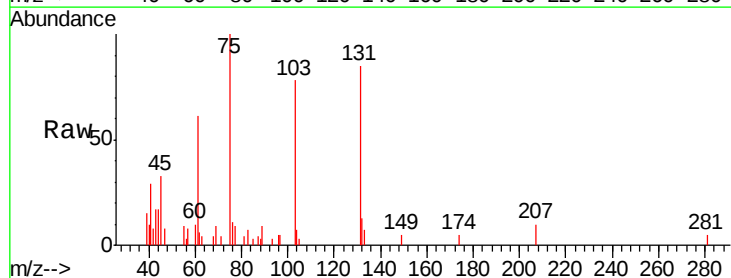


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 134.00 (133.70 to 134.70): V  
Ion 91.00 (90.70 to 91.70): V

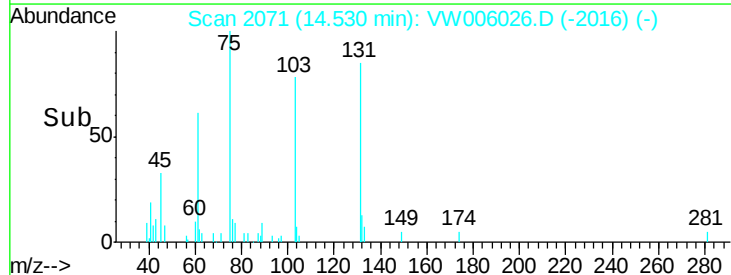
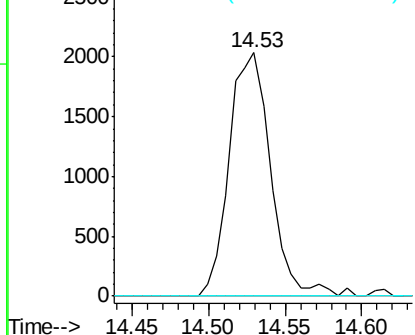


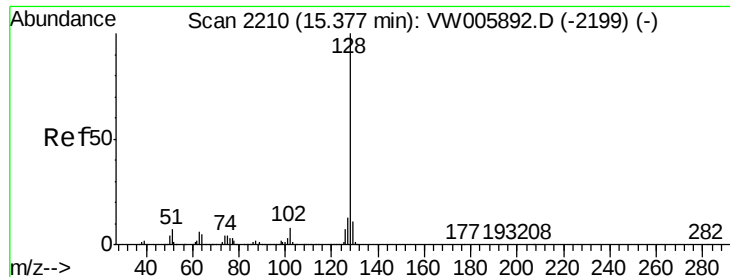
#92  
1,2-Dibromo-3-Chloropropane  
Concen: 92.26 ug/l  
RT: 14.53 min Scan# 2071  
Delta R.T. 0.04 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Tgt Ion: 75 Resp: 3789  
Ion Ratio Lower Upper  
75 100  
155 0.0 44.8 134.3#  
157 0.0 58.9 176.6#



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

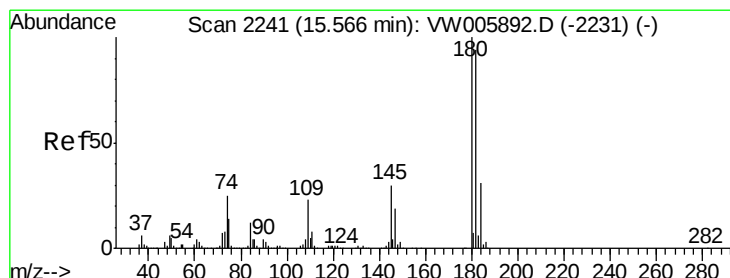
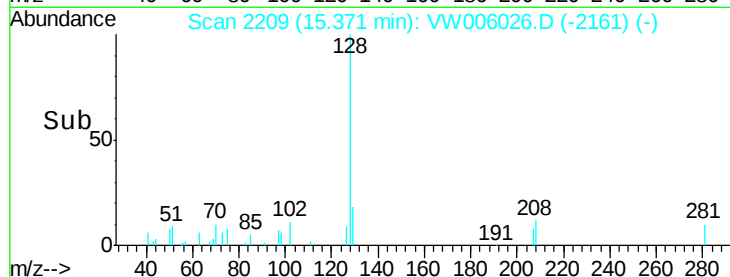
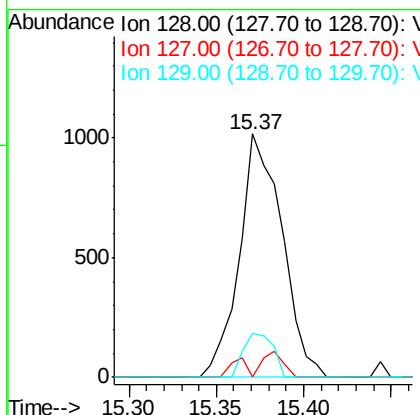
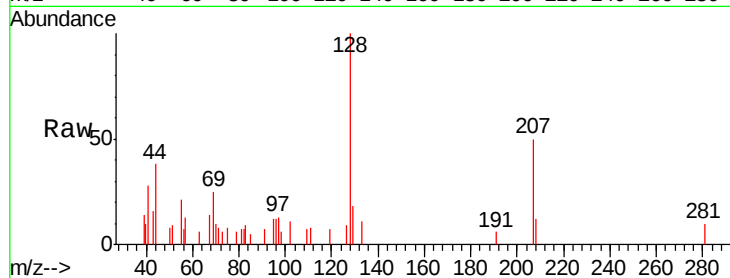




#95  
Naphthalene  
Concen: 2.30 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
0688-KM-PA-COMP

Tgt Ion:128 Resp: 1729  
Ion Ratio Lower Upper  
128 100  
127 2.9 10.5 15.7#  
129 12.5 8.9 13.3



#96  
1,2,3-Trichlorobenzene  
Concen: 1.21 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. -0.00 min  
Lab File: VW006026.D  
Acq: 11 Oct 2018 12:37

Tgt Ion:180 Resp: 458  
Ion Ratio Lower Upper  
180 100  
182 90.0 47.6 142.8  
145 57.9 15.3 45.9#

