

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW041819\  
 Data File : VW010050.D  
 Acq On : 18 Apr 2019 17:29  
 Operator : SY/VA  
 Sample : K2407-02  
 Misc : 5.99G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-11-S2

Quant Time: Apr 18 17:49:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 11:26:35 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 293565   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 517082   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 471918   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 219764   | 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   | 246690   | 68.09  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 136.18% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 197365   | 60.04  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 120.08% |          |
| 50) Toluene-d8              | 10.32 | 98   | 691694   | 56.15  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 112.30% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 236718   | 52.87  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 105.74% |          |

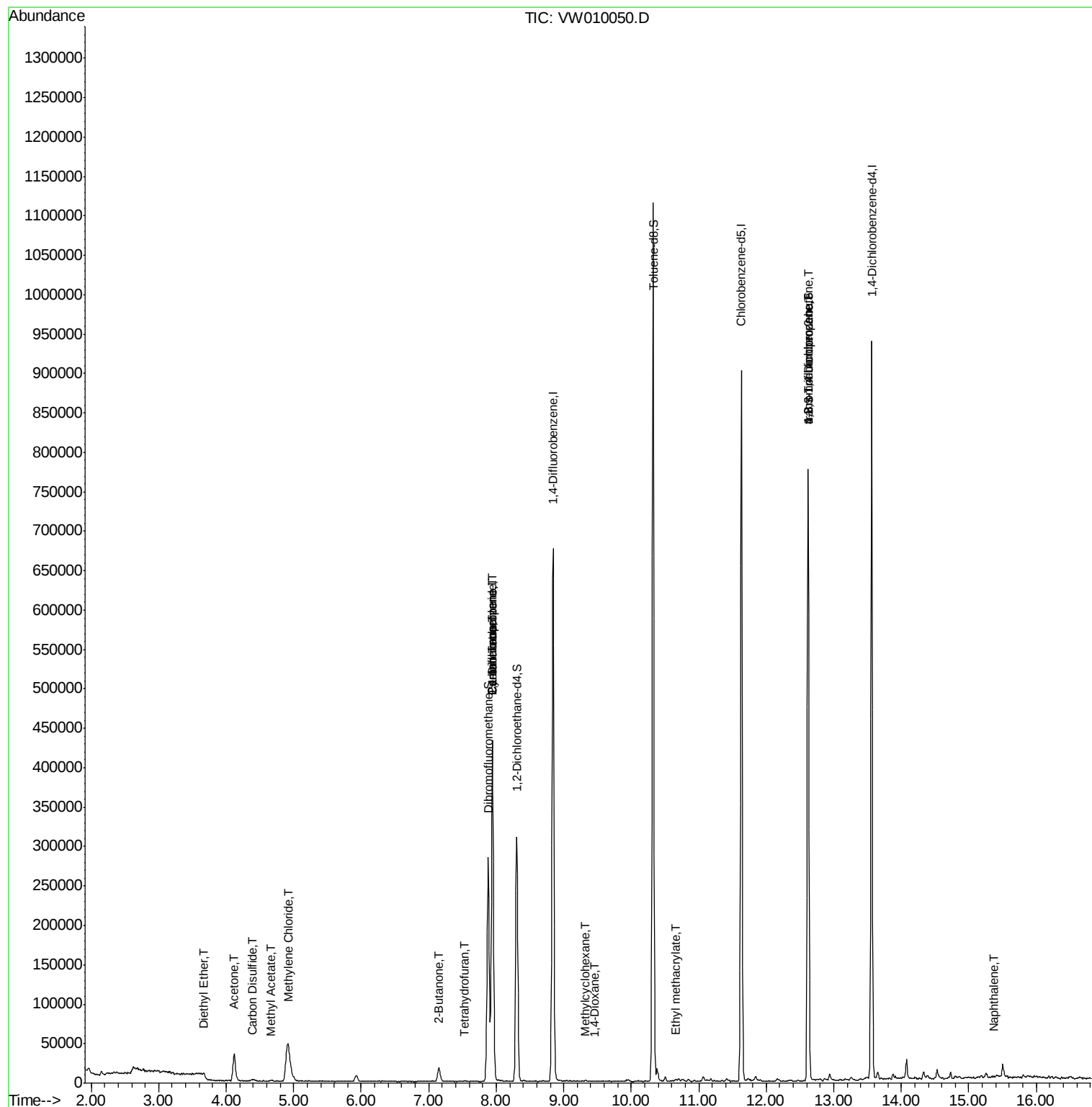
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 3162     | 2.113   | ug/l   | 96     |
| 16) Acetone                    | 4.12  | 43   | 60708    | 72.224  | ug/l   | 100    |
| 17) Carbon Disulfide           | 4.39  | 76   | 242      | 1.366   | ug/l # | 74     |
| 18) Methyl Acetate             | 4.67  | 43   | 2725     | 1.401   | ug/l # | 83     |
| 20) Methylene Chloride         | 4.93  | 84   | 48531    | 11.538  | ug/l   | 86     |
| 25) 2-Butanone                 | 7.16  | 43   | 1127     | 1.021   | ug/l # | 51     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 731      | 1.045   | ug/l # | 45     |
| 31) Cyclohexane                | 7.94  | 56   | 8488     | 1.449   | ug/l # | 30     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 27243    | 5.158   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 31859    | 6.180   | ug/l # | 16     |
| 39) Methylcyclohexane          | 9.33  | 83   | 365      | 1.253   | ug/l # | 82     |
| 49) 1,4-Dioxane                | 9.45  | 88   | 60       | 1.996   | ug/l # | 1      |
| 56) Ethyl methacrylate         | 10.65 | 69   | 259      | 2.706   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 129266   | 58.770  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 129266   | 138.578 | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128  | 1663     | 2.828   | ug/l # | 92     |

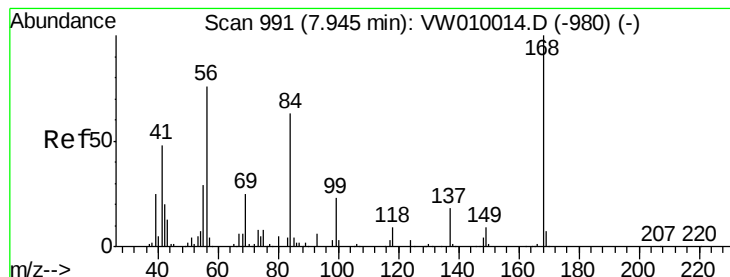
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW041819\  
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Quant Title : SW846 8260  
QLast Update : Thu Apr 18 11:26:35 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampleId :

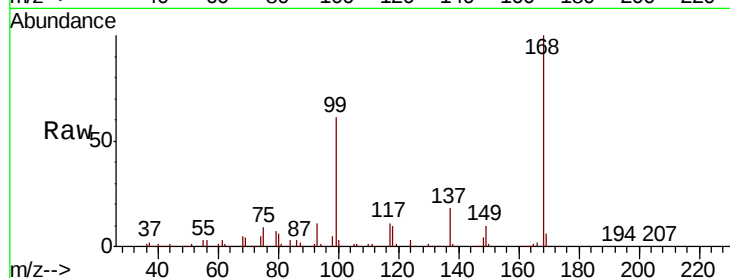
TP-11-S2

Tgt Ion:168 Resp: 293565

Ion Ratio Lower Upper

168 100

99 60.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

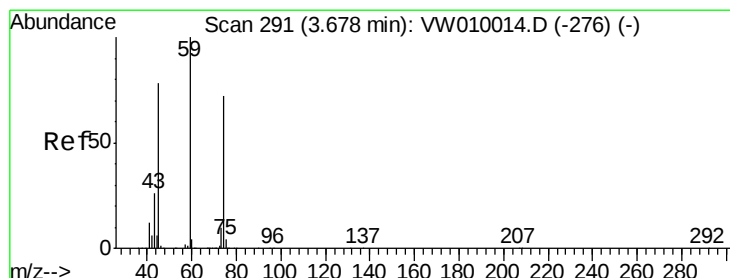
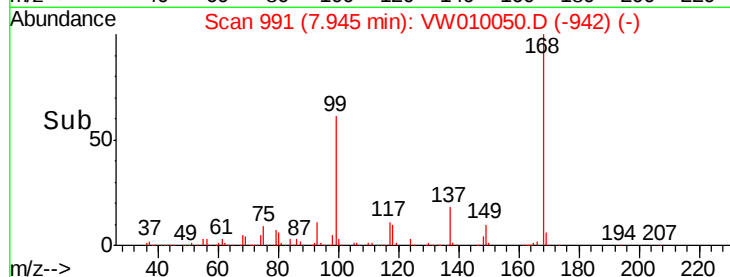
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#8

Diethyl Ether

Concen: 2.113 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW010050.D

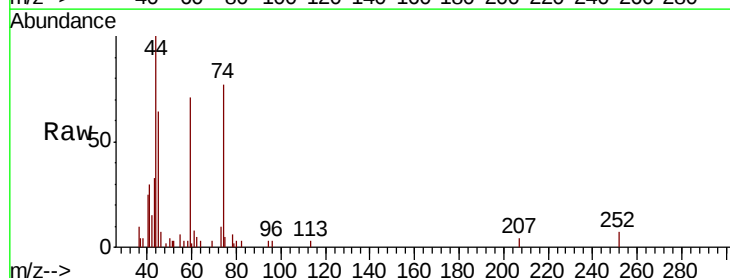
Acq: 18 Apr 2019 17:29

Tgt Ion: 74 Resp: 3162

Ion Ratio Lower Upper

74 100

45 108.2 56.0 168.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

2000

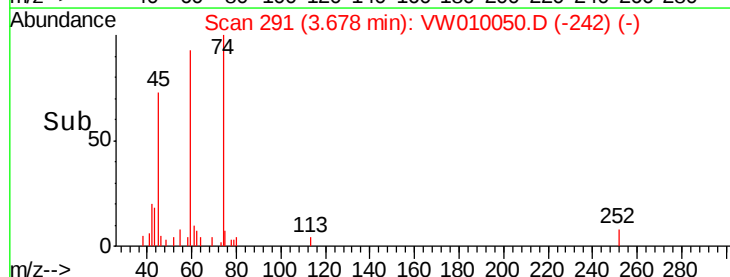
1500

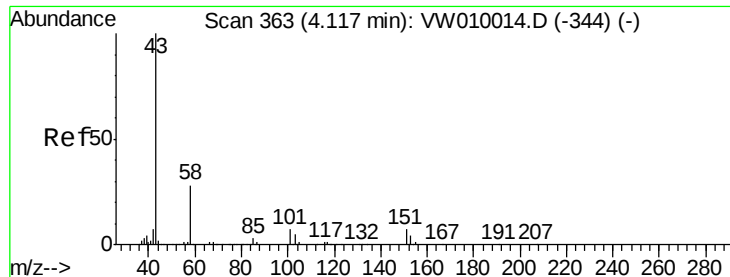
1000

500

0

Time--> 3.60 3.65 3.70 3.75





#16

Acetone

Concen: 72.224 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampleId :

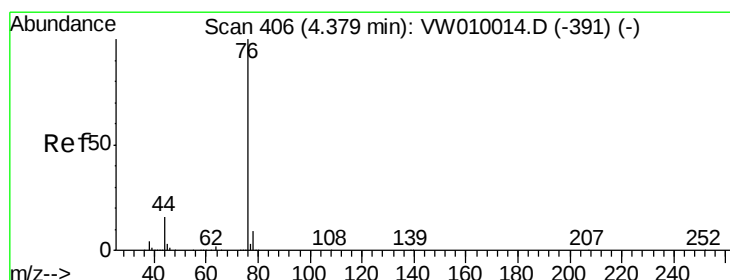
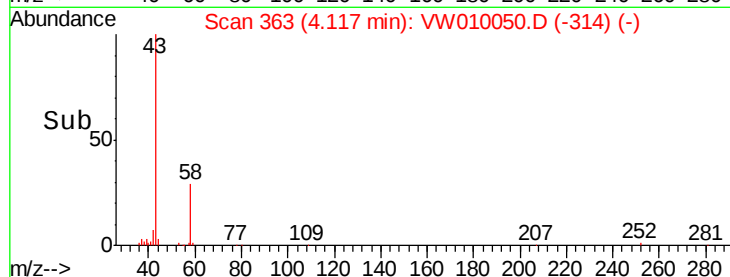
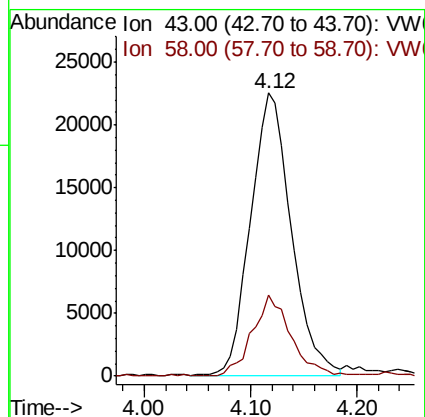
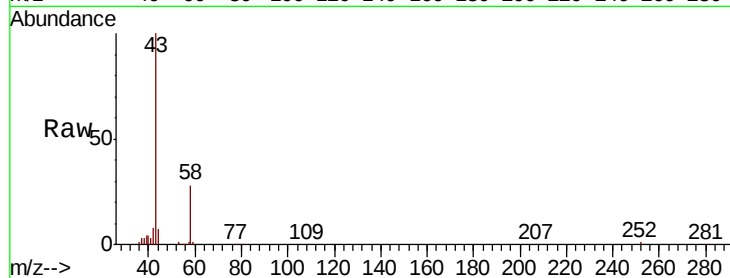
TP-11-S2

Tgt Ion: 43 Resp: 60708

Ion Ratio Lower Upper

43 100

58 28.5 22.7 34.1



#17

Carbon Disulfide

Concen: 1.366 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW010050.D

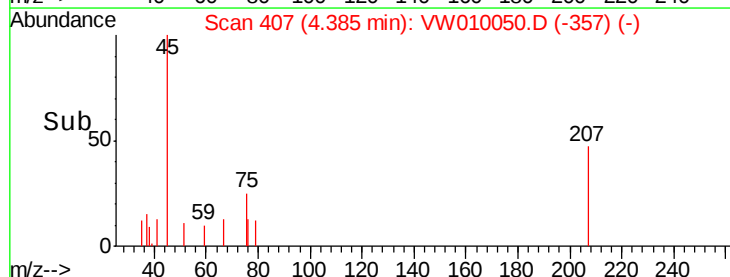
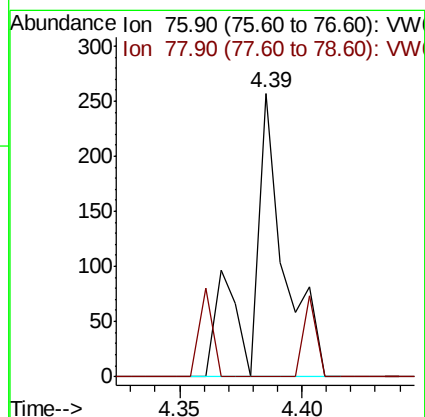
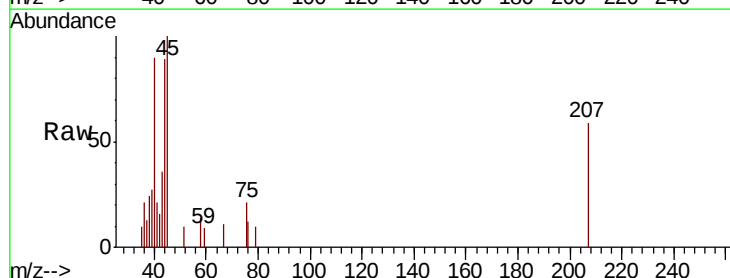
Acq: 18 Apr 2019 17:29

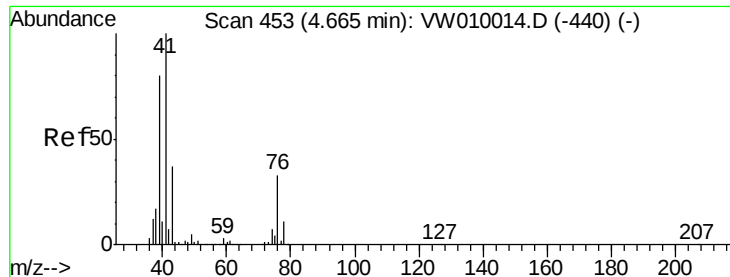
Tgt Ion: 76 Resp: 242

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

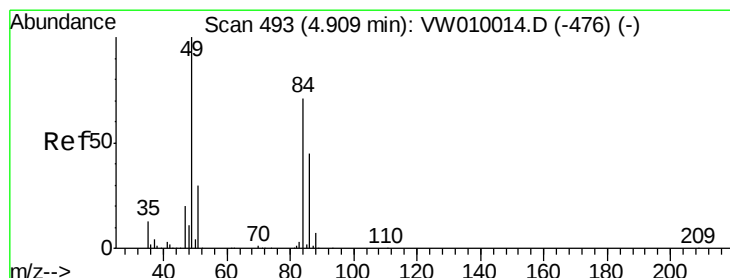
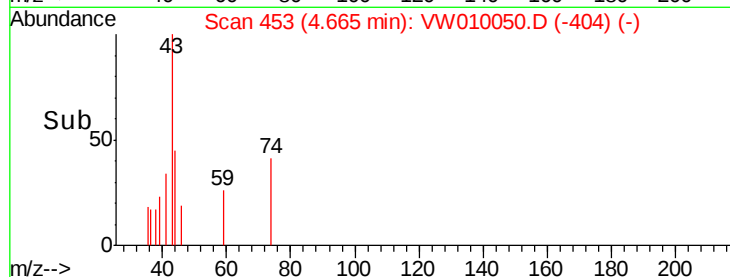
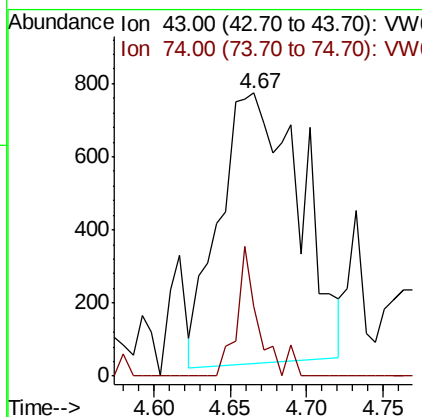
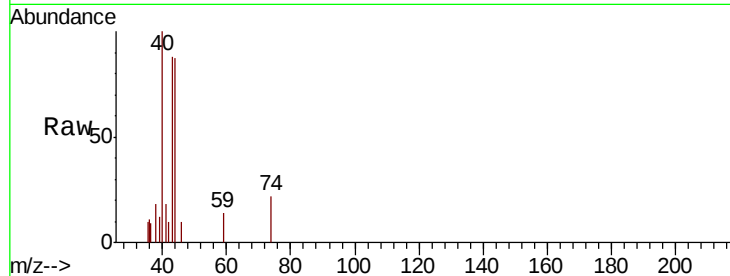




#18  
Methyl Acetate  
Concen: 1.401 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW010050.D  
Acq: 18 Apr 2019 17:29

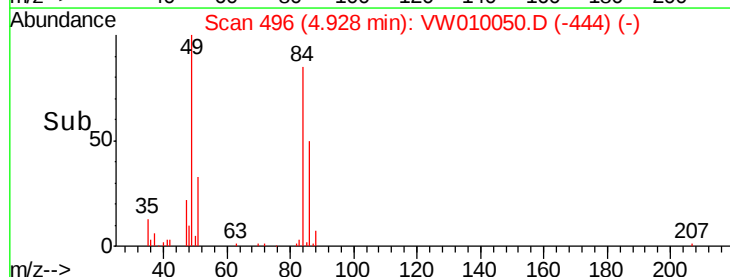
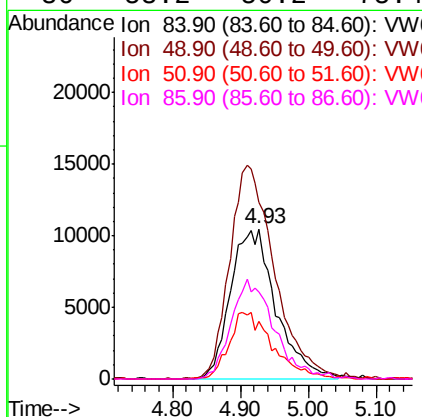
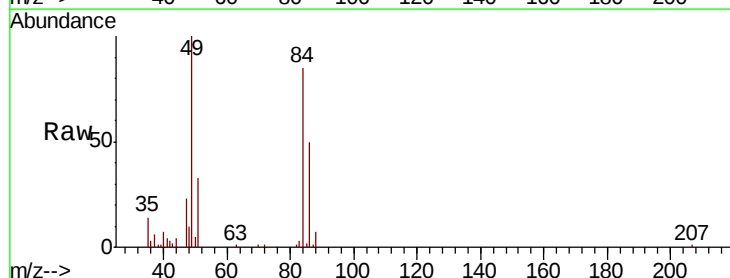
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-11-S2

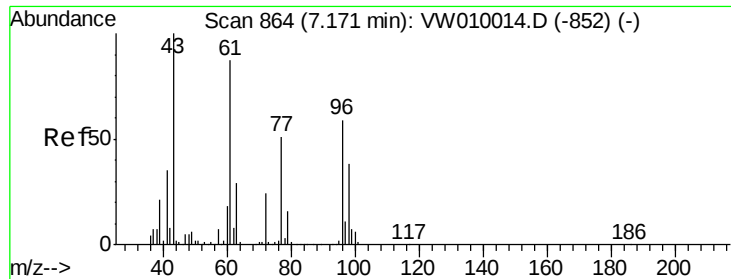
Tgt Ion: 43 Resp: 2725  
Ion Ratio Lower Upper  
43 100  
74 13.0 16.8 25.2#



#20  
Methylene Chloride  
Concen: 11.538 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.02 min  
Lab File: VW010050.D  
Acq: 18 Apr 2019 17:29

Tgt Ion: 84 Resp: 48531  
Ion Ratio Lower Upper  
84 100  
49 117.0 112.3 168.5  
51 38.4 33.9 50.9  
86 58.2 50.2 75.4





#25

2-Butanone

Concen: 1.021 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampleId :

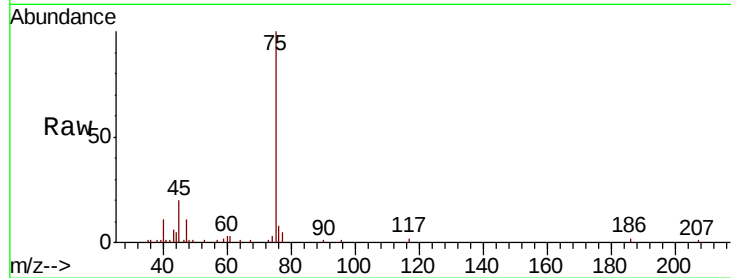
TP-11-S2

Tgt Ion: 43 Resp: 1127

Ion Ratio Lower Upper

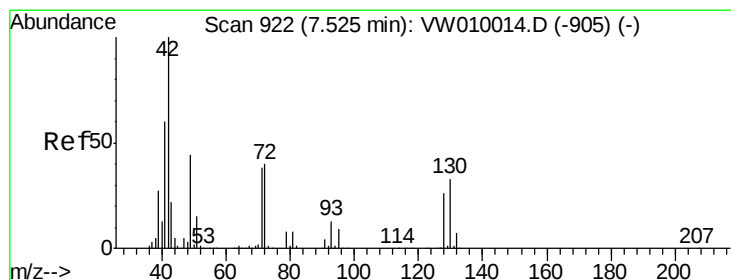
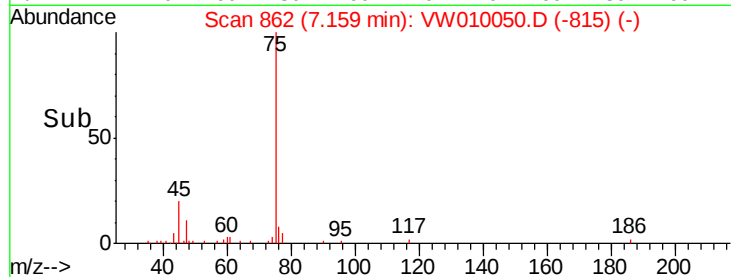
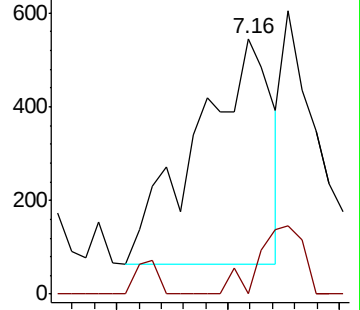
43 100

72 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 1.045 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

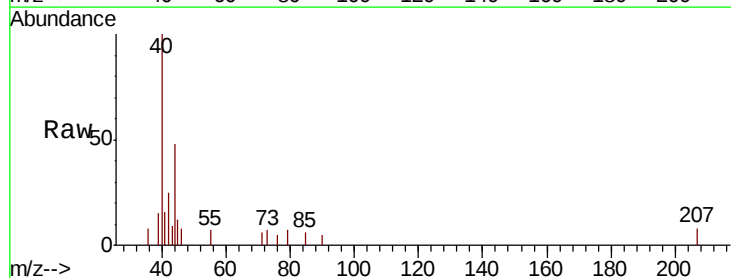
Tgt Ion: 42 Resp: 731

Ion Ratio Lower Upper

42 100

72 3.0 31.0 46.6#

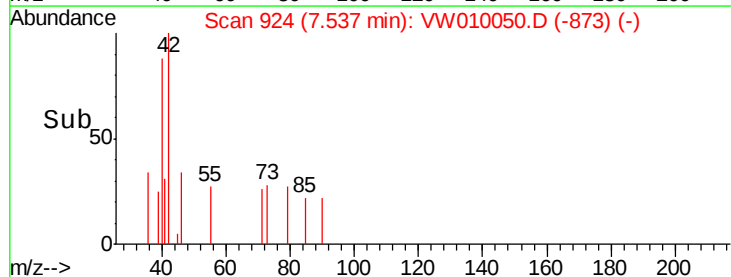
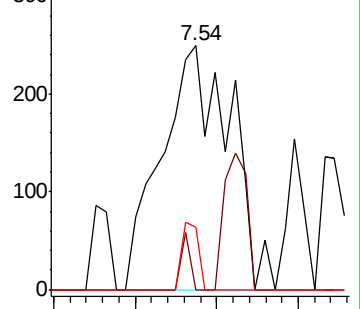
71 6.7 29.7 44.5#

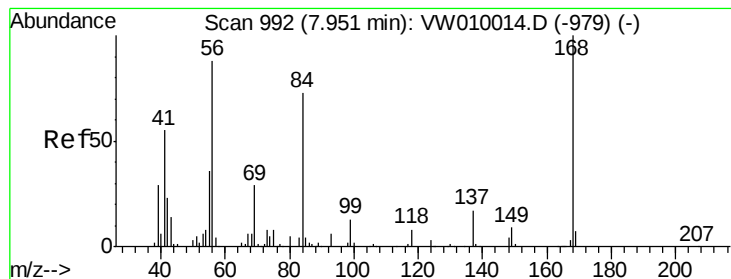


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.449 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampled :

TP-11-S2

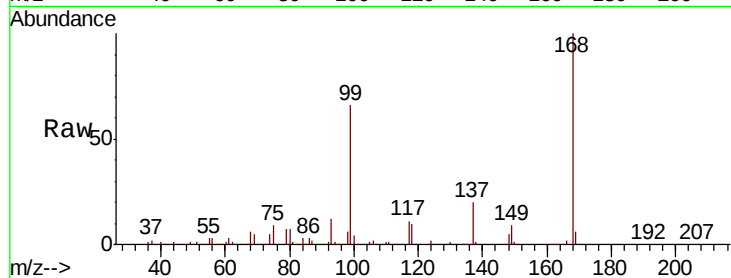
Tgt Ion: 56 Resp: 8488

Ion Ratio Lower Upper

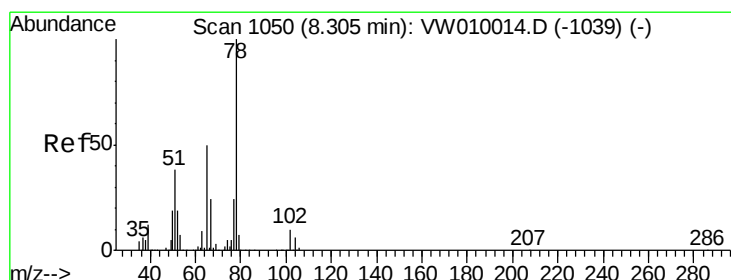
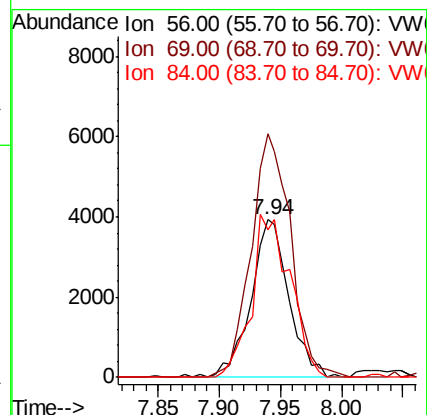
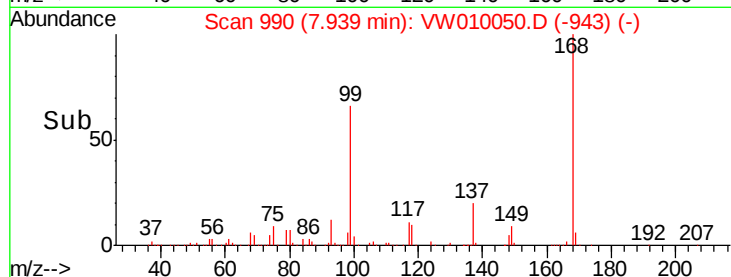
56 100

69 154.4 26.6 40.0#

84 93.7 66.2 99.2



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: 68.095 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW010050.D

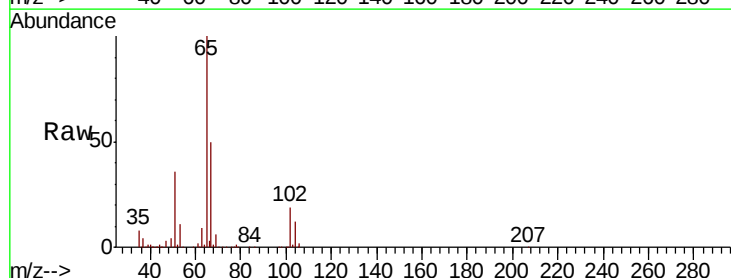
Acq: 18 Apr 2019 17:29

Tgt Ion: 65 Resp: 246690

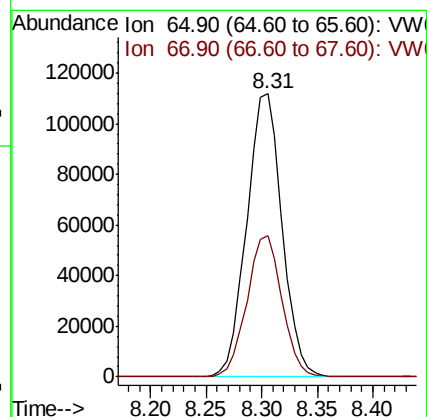
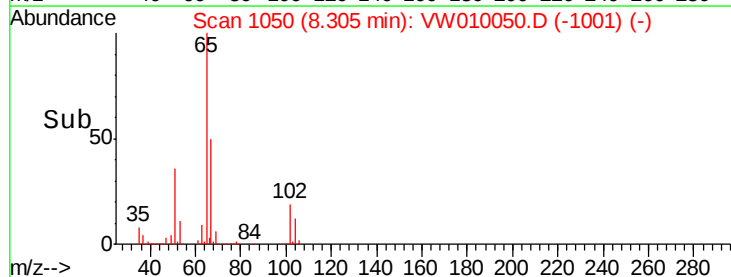
Ion Ratio Lower Upper

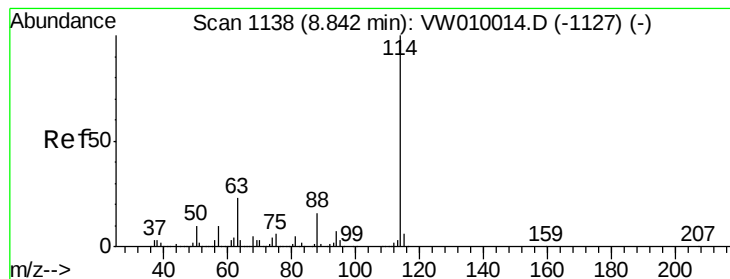
65 100

67 49.6 0.0 100.8



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: VW010050.D

Acq: 18 Apr 2019 17:29

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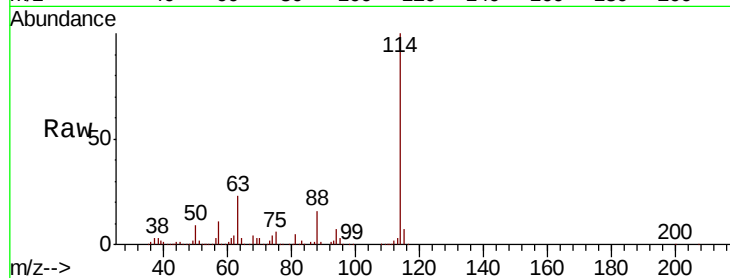
Tgt Ion:114 Resp: 517082

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.2

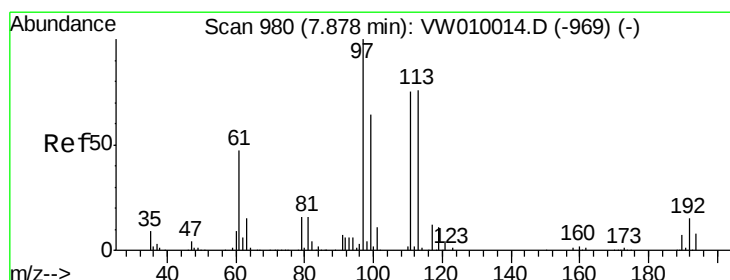
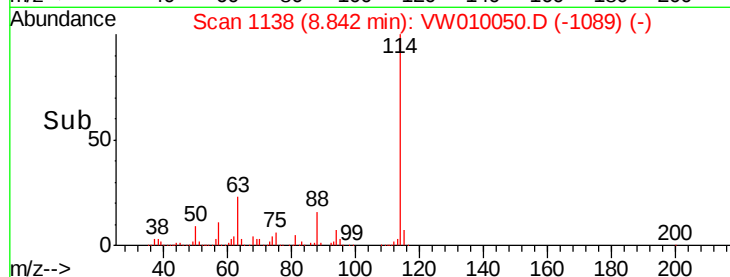
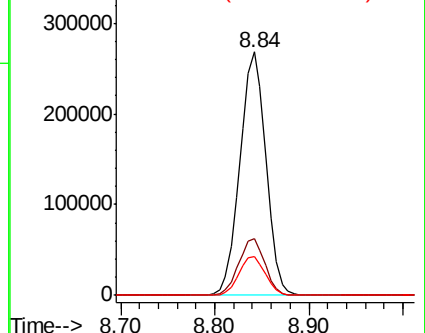
88 15.7 0.0 32.6



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: 60.036 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

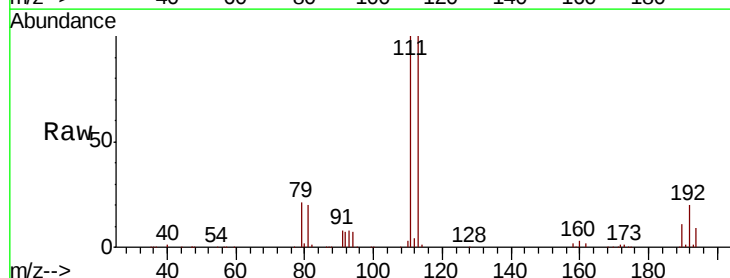
Tgt Ion:113 Resp: 197365

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

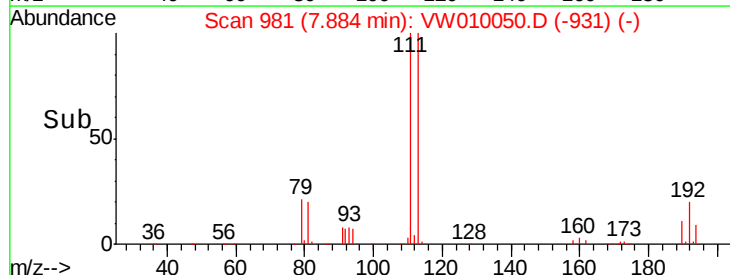
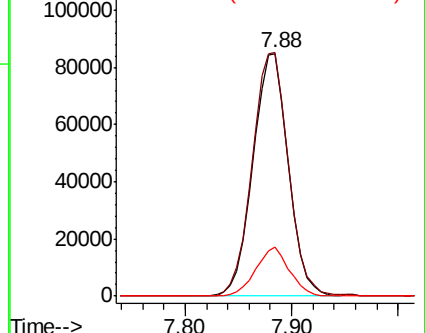
192 19.2 15.4 23.2

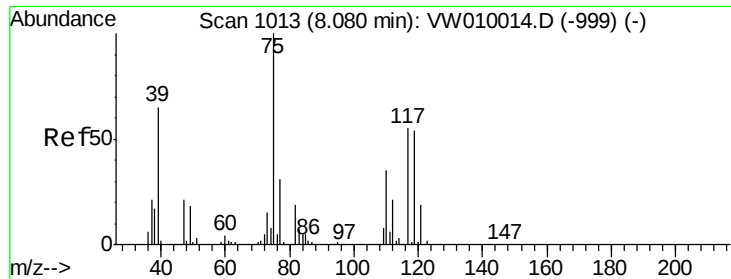


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

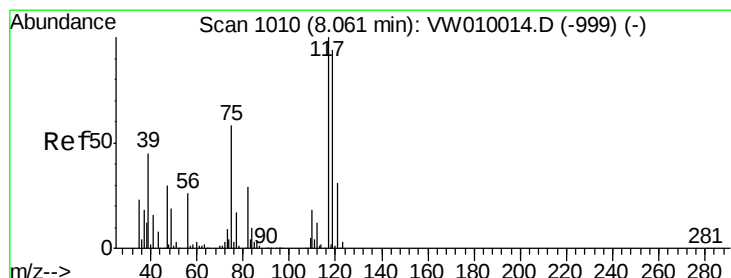
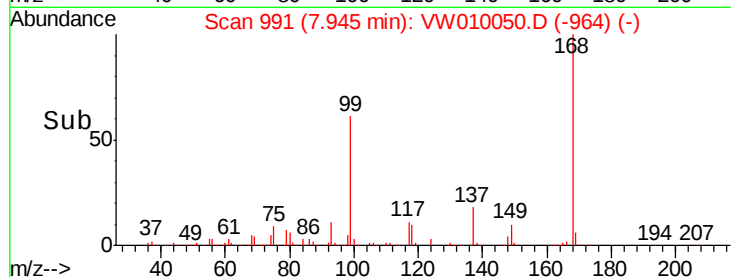
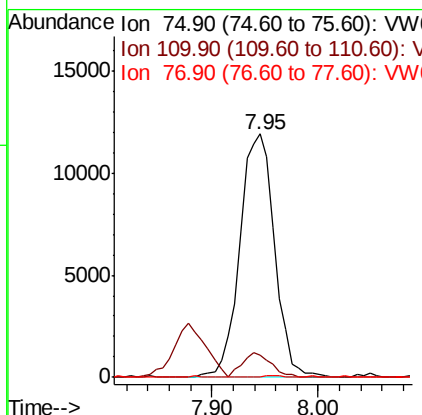
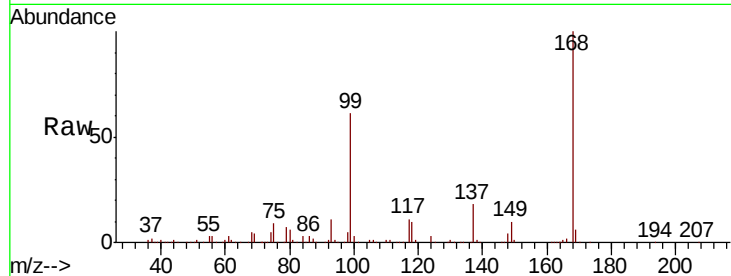




#36  
 1,1-Dichloropropene  
 Concen: 5.158 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW010050.D  
 Acq: 18 Apr 2019 17:29

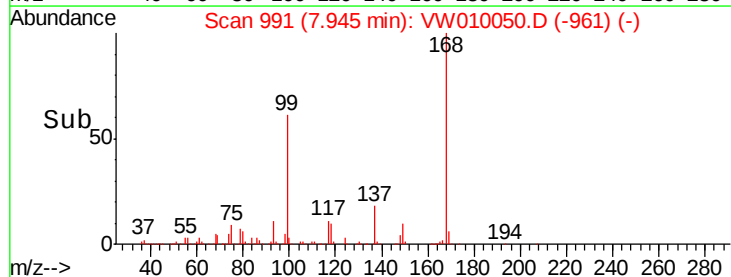
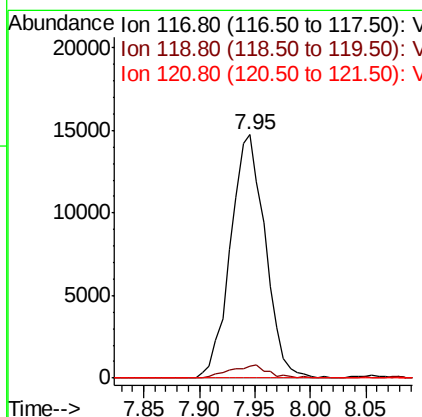
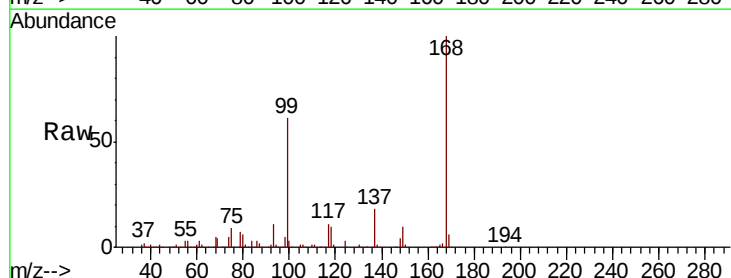
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-11-S2

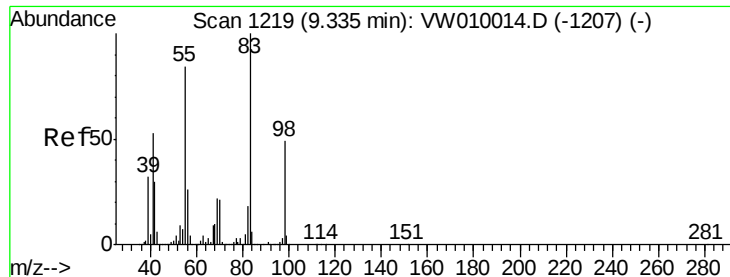
Tgt Ion: 75 Resp: 27243  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 16.6 49.8#  
 77 0.3 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.180 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW010050.D  
 Acq: 18 Apr 2019 17:29

Tgt Ion: 117 Resp: 31859  
 Ion Ratio Lower Upper  
 117 100  
 119 4.7 75.3 112.9#  
 121 0.0 24.4 36.6#





#39

Methylcyclohexane

Concen: 1.253 ug/l

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampled :

TP-11-S2

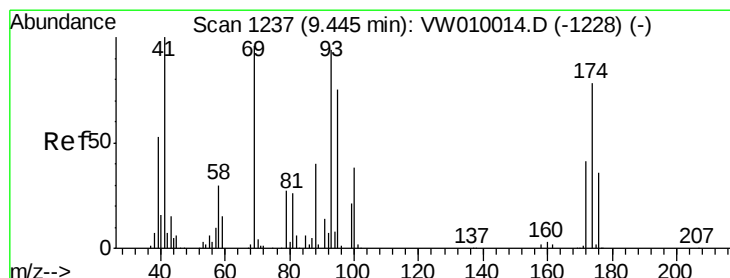
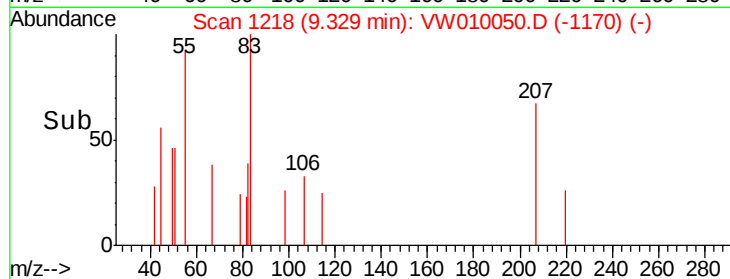
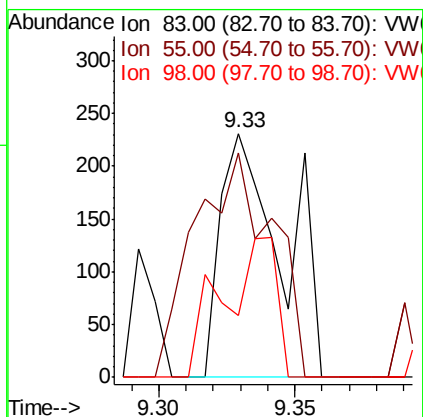
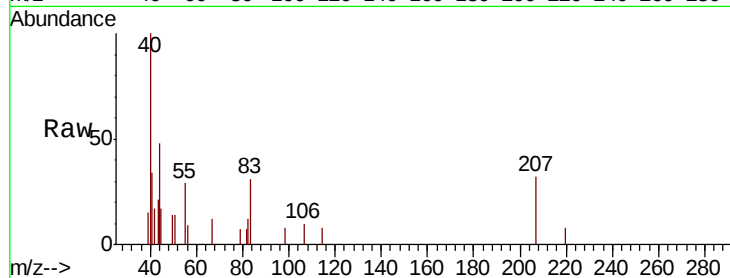
Tgt Ion: 83 Resp: 365

Ion Ratio Lower Upper

83 100

55 92.2 67.1 100.7

98 25.5 39.2 58.8#



#49

1,4-Dioxane

Concen: 1.996 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

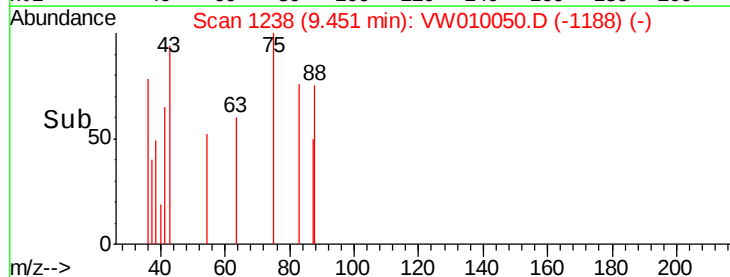
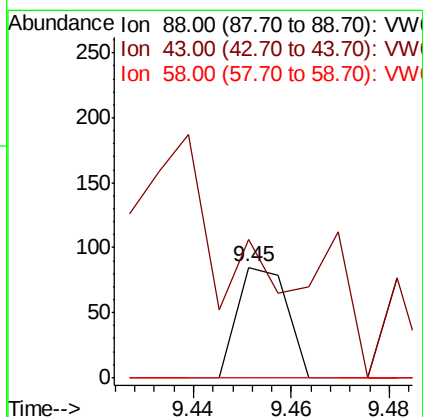
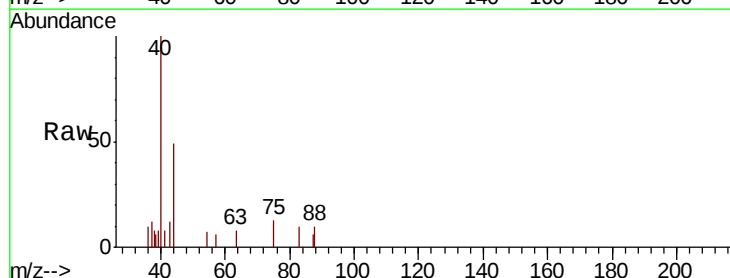
Tgt Ion: 88 Resp: 60

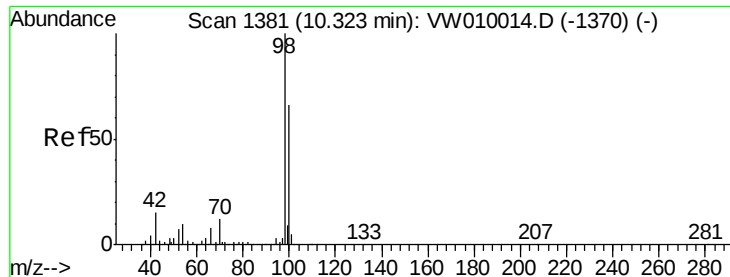
Ion Ratio Lower Upper

88 100

43 721.7 31.9 47.9#

58 0.0 61.8 92.6#





#50

Toluene-d8

Concen: 56.150 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampleId :

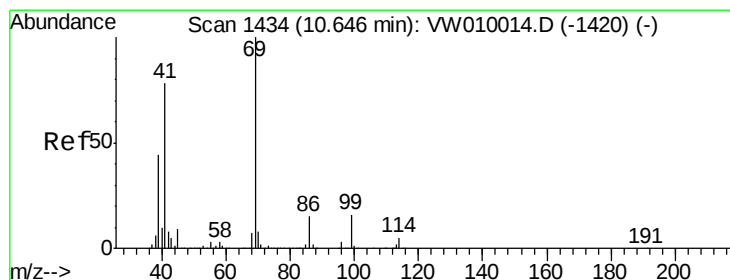
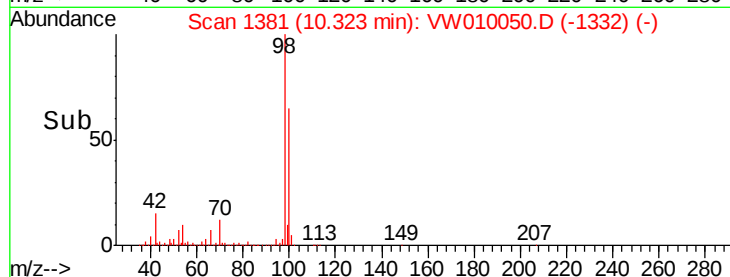
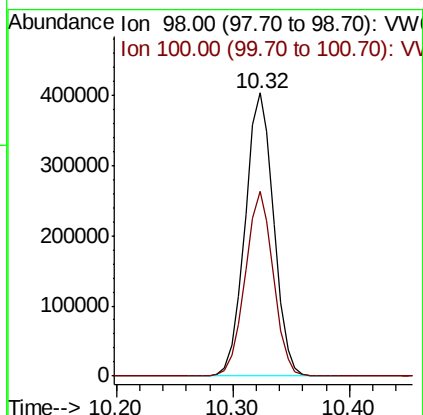
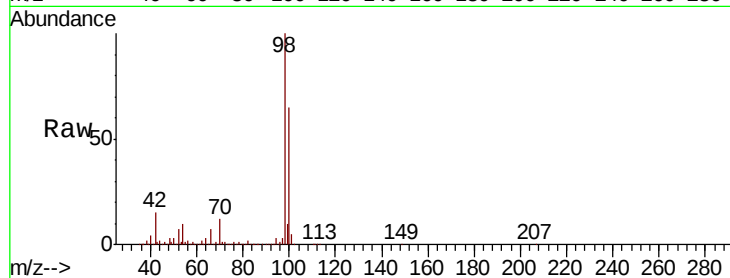
TP-11-S2

Tgt Ion: 98 Resp: 691694

Ion Ratio Lower Upper

98 100

100 63.9 52.3 78.5



#56

Ethyl methacrylate

Concen: 2.706 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

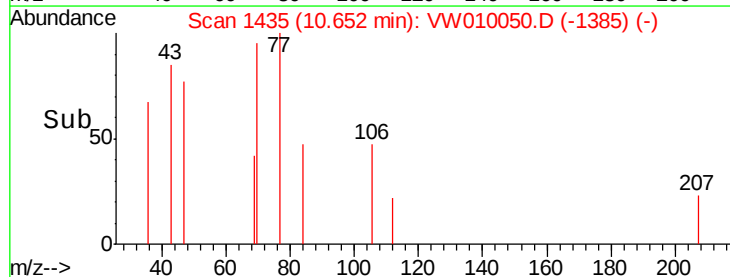
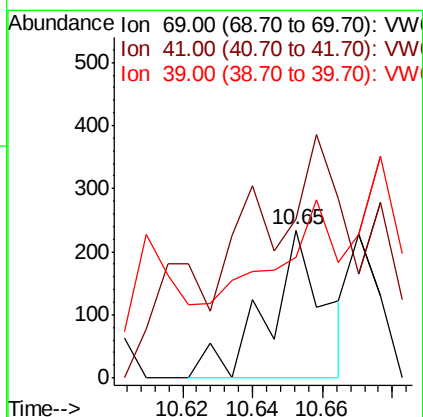
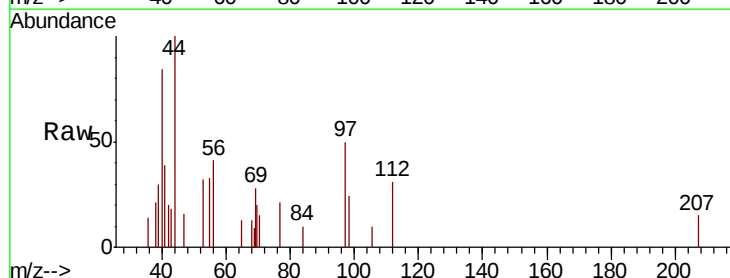
Tgt Ion: 69 Resp: 259

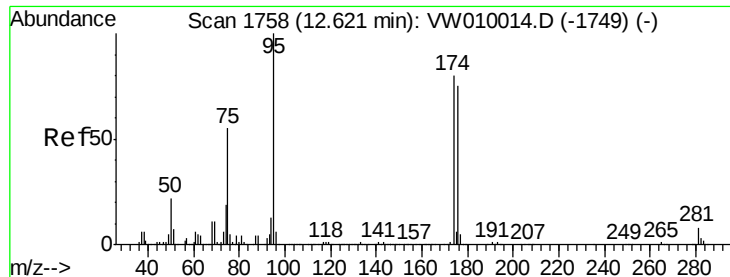
Ion Ratio Lower Upper

69 100

41 265.3 61.0 91.6#

39 162.2 33.8 50.6#

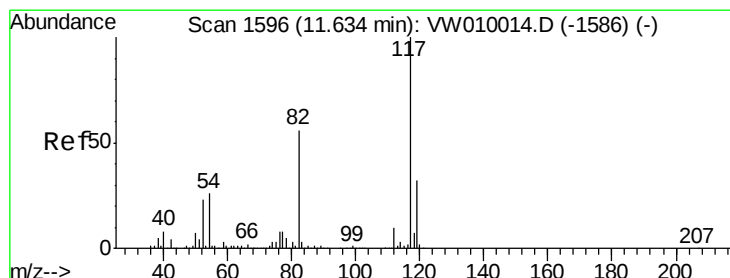
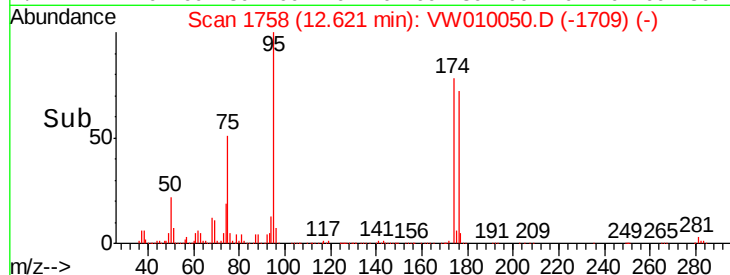
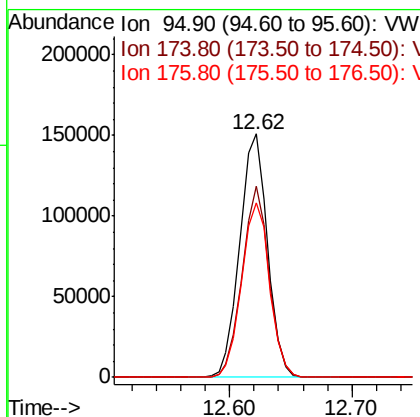
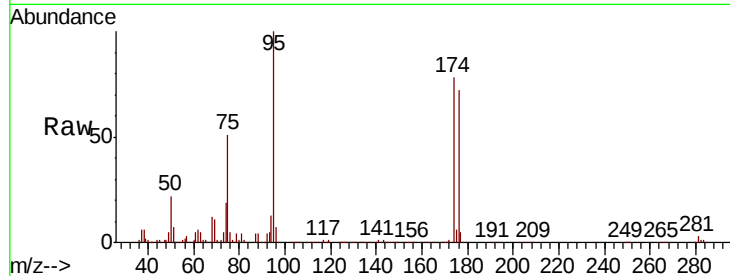




#62  
4-Bromofluorobenzene  
Concen: 52.865 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW010050.D  
Acq: 18 Apr 2019 17:29

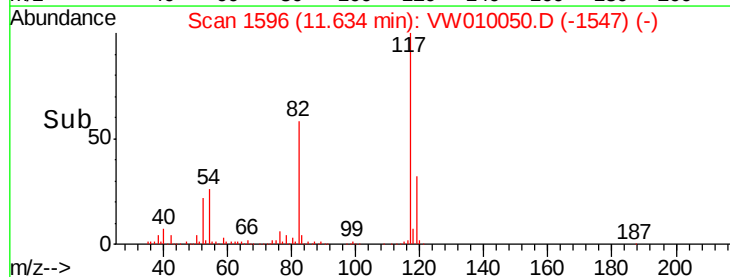
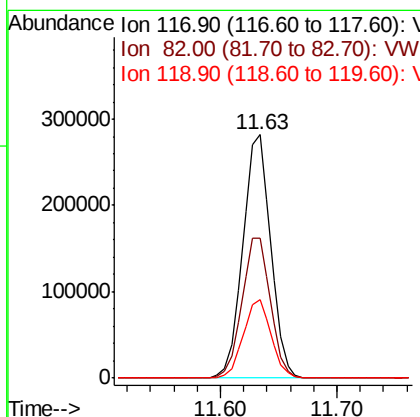
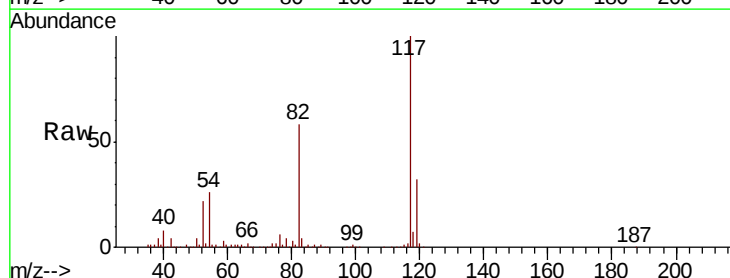
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-11-S2

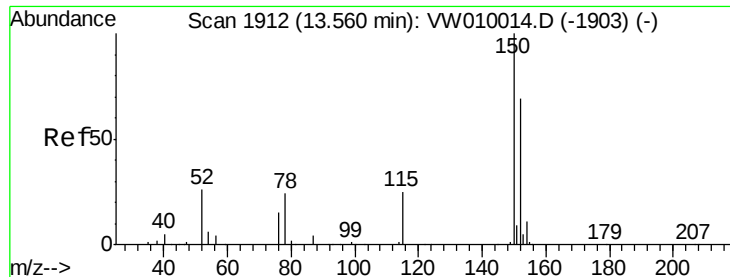
Tgt Ion: 95 Resp: 236718  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 151.4  
176 72.6 0.0 146.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010050.D  
Acq: 18 Apr 2019 17:29

Tgt Ion: 117 Resp: 471918  
Ion Ratio Lower Upper  
117 100  
82 57.5 45.2 67.8  
119 32.0 25.4 38.2



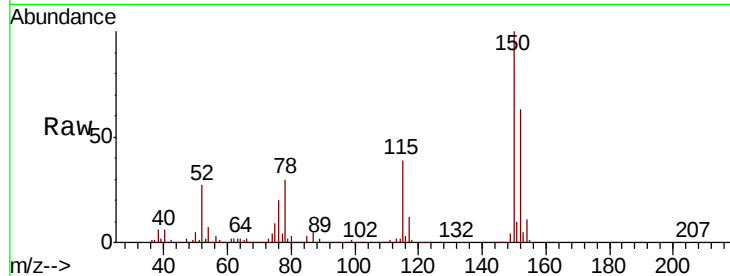


#72

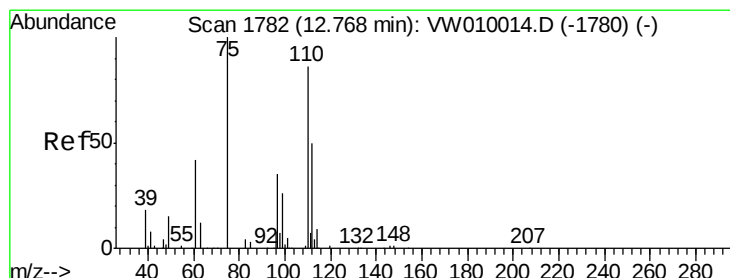
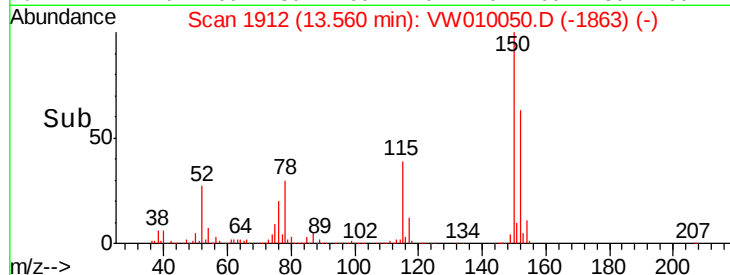
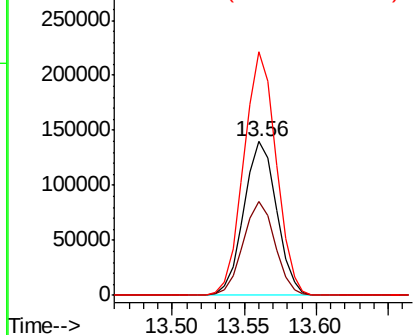
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW010050.D  
Acq: 18 Apr 2019 17:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-11-S2

Tgt Ion:152 Resp: 219764  
Ion Ratio Lower Upper  
152 100  
115 59.9 30.4 91.2  
150 157.0 0.0 347.0



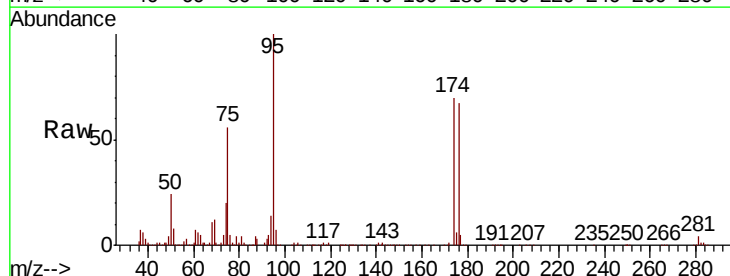
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



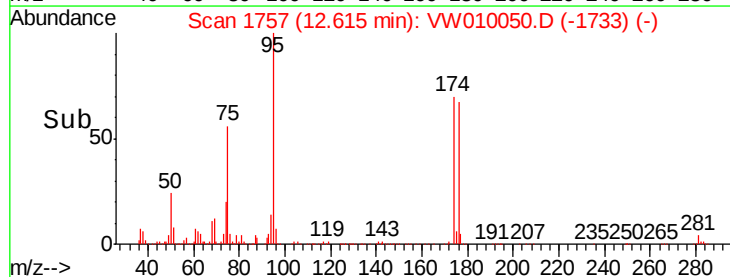
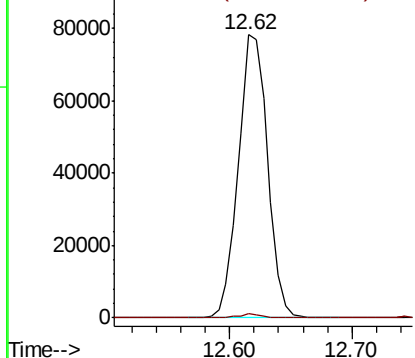
#76

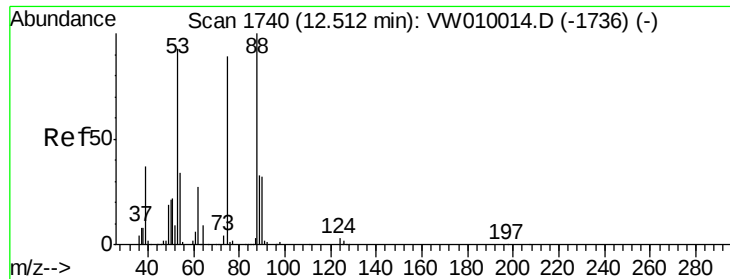
1,2,3-Trichloropropane  
Concen: 58.770 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.15 min  
Lab File: VW010050.D  
Acq: 18 Apr 2019 17:29

Tgt Ion: 75 Resp: 129266  
Ion Ratio Lower Upper  
75 100  
77 1.5 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: 138.578 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

Instrument :

MSVOA\_W

ClientSampleId :

TP-11-S2

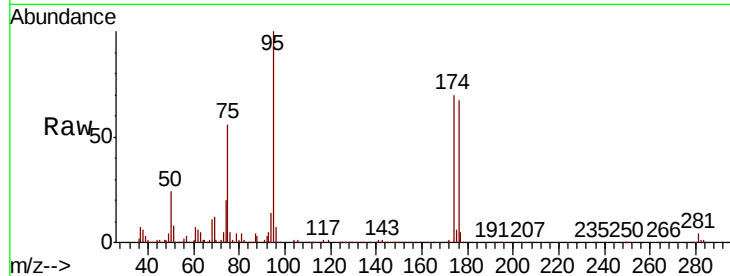
Tgt Ion: 75 Resp: 129266

Ion Ratio Lower Upper

75 100

53 0.3 89.8 134.8#

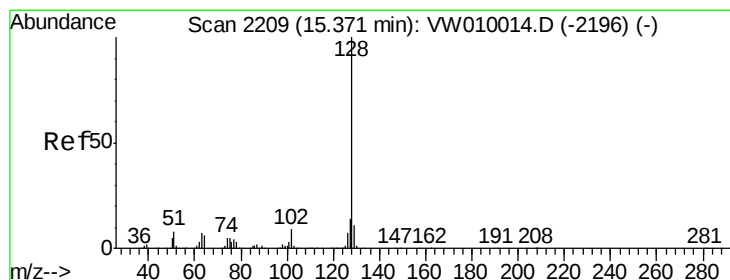
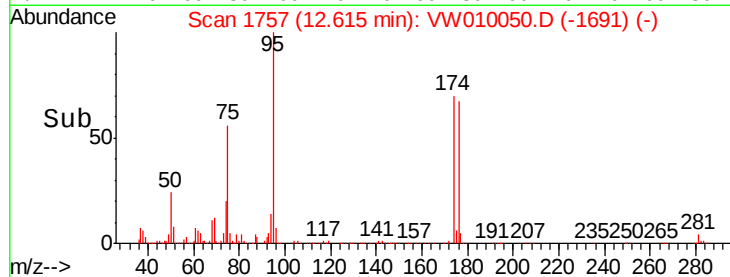
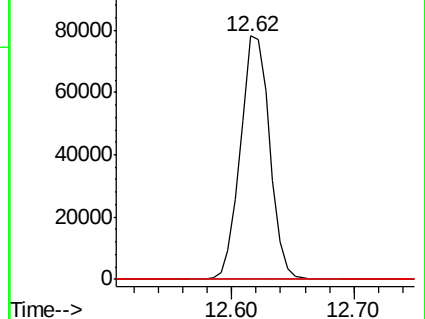
89 0.1 36.6 54.8#



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



#95

Naphthalene

Concen: 2.828 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010050.D

Acq: 18 Apr 2019 17:29

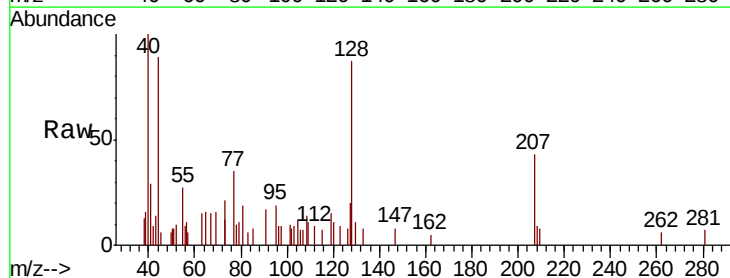
Tgt Ion: 128 Resp: 1663

Ion Ratio Lower Upper

128 100

127 15.5 10.6 15.8

129 15.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

