

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100719\  
 Data File : VW013461.D  
 Acq On : 07 Oct 2019 14:18  
 Operator : SY/VA  
 Sample : VIBLK  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK

Quant Time: Oct 07 16:51:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 11:49:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 341805   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 488488   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 427191   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 216495   | 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   | 133869   | 52.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.90% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 136378   | 53.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.42% |          |
| 50) Toluene-d8              | 10.32 | 98   | 568448   | 53.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.88% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 201099   | 56.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.24% |          |

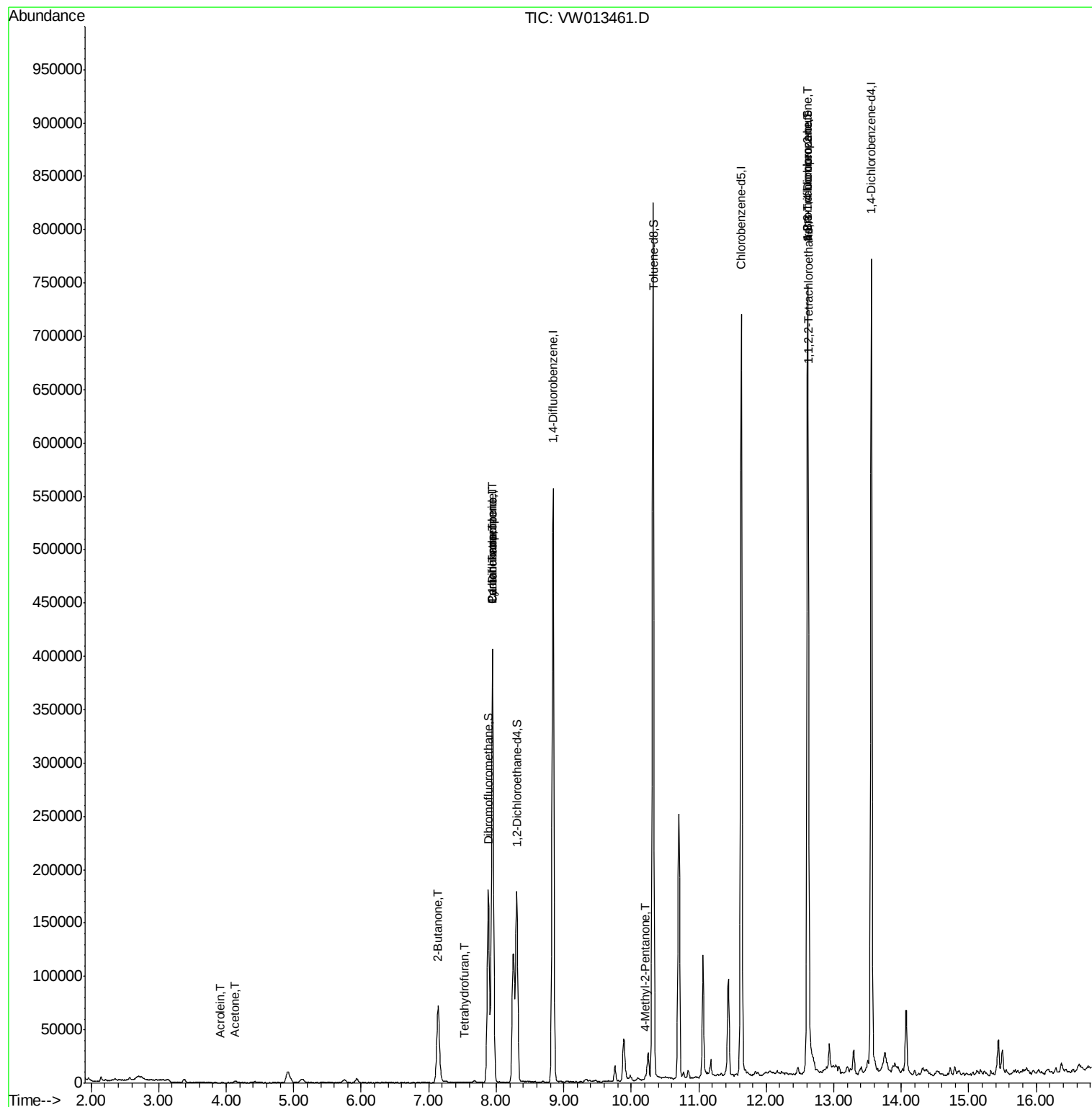
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.12  | 59   | 3835     | Below Cal | #      | 73     |
| 13) Acrolein                   | 3.91  | 56   | 42       | 10.733    | ug/l # | 15     |
| 16) Acetone                    | 4.14  | 43   | 2695     | 3.445     | ug/l   | 97     |
| 25) 2-Butanone                 | 7.13  | 43   | 3426     | 3.423     | ug/l # | 81     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 209      | 10.038    | ug/l # | 34     |
| 31) Cyclohexane                | 7.95  | 56   | 5855     | 1.003     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 21495    | 4.738     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 28993    | 7.377     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 2832     | 1.430     | ug/l   | 95     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.63 | 83   | 8286     | 3.091     | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 92531    | 48.089    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 92531    | 97.872    | ug/l # | 12     |

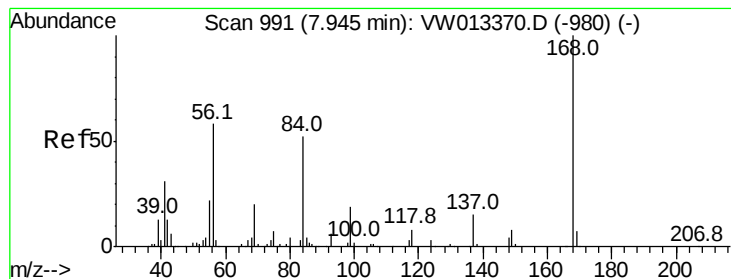
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
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VIBLK

Quant Time: Oct 07 16:51:23 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 11:49:57 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: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampleId :

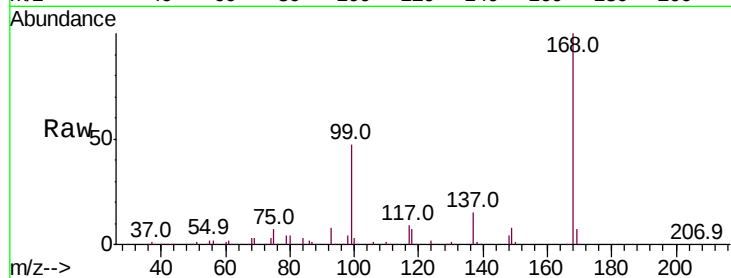
VIBLK

Tot Ion:168 Resp: 341805

Ion Ratio Lower Upper

168 100

99 47.4 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

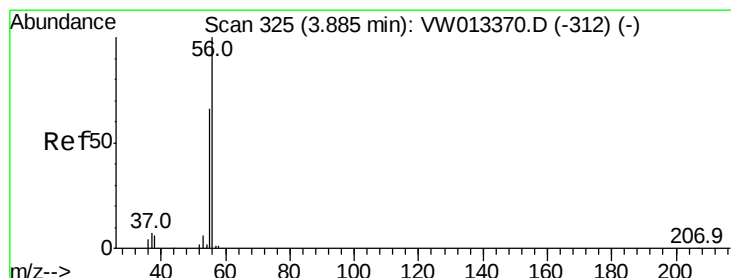
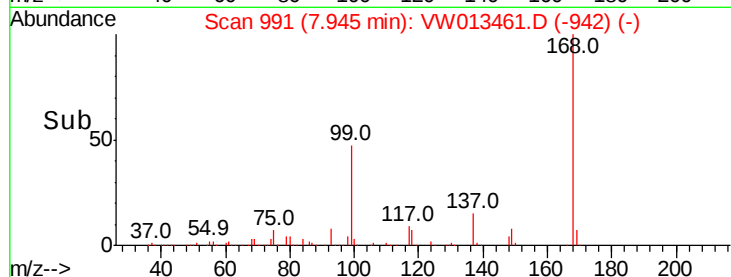
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#13

Acrolein

Concen: 10.733 ug/l

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW013461.D

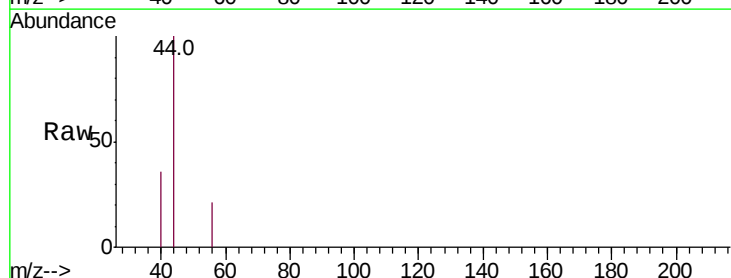
Acq: 07 Oct 2019 14:18

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.91

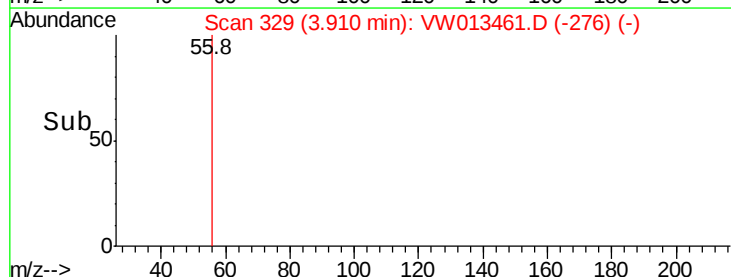
60

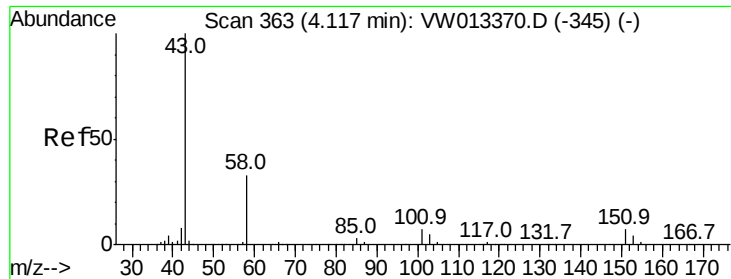
40

20

0

Time--> 3.90 3.92





#16

Acetone

Concen: 3.445 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampleId :

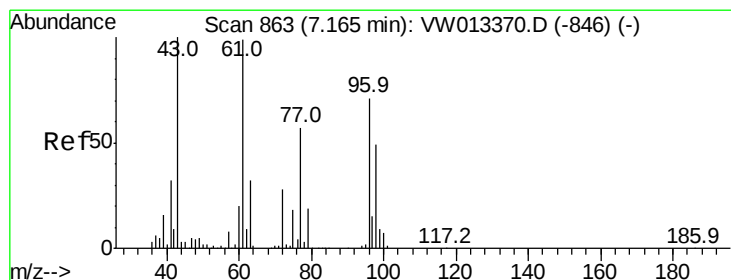
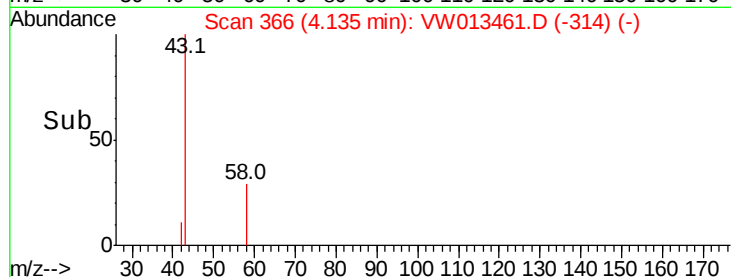
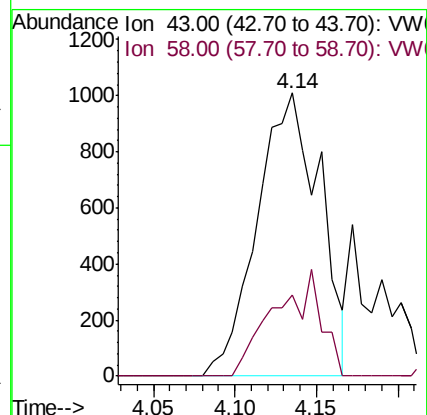
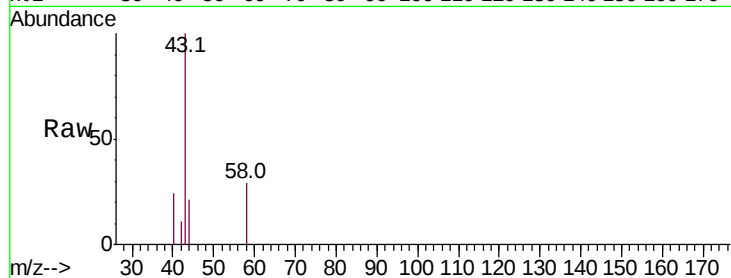
VIBLK

Tot Ion: 43 Resp: 2695

Ion Ratio Lower Upper

43 100

58 28.7 24.1 36.1



#25

2-Butanone

Concen: 3.423 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW013461.D

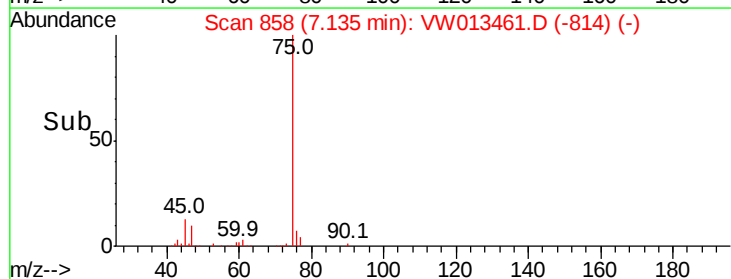
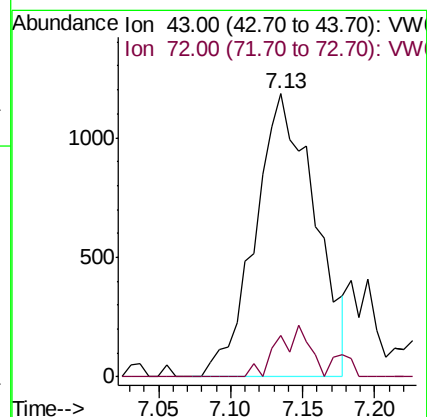
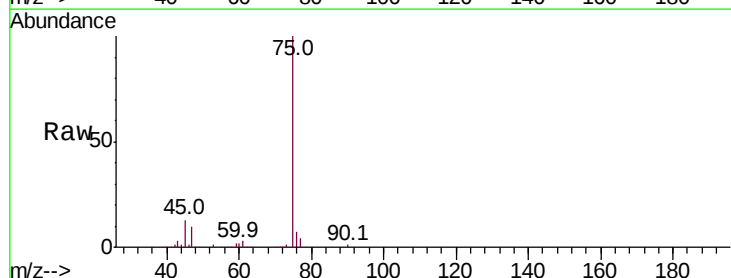
Acq: 07 Oct 2019 14:18

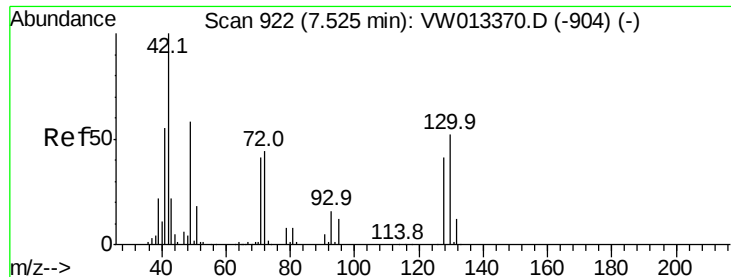
Tgt Ion: 43 Resp: 3426

Ion Ratio Lower Upper

43 100

72 14.6 19.4 29.0#

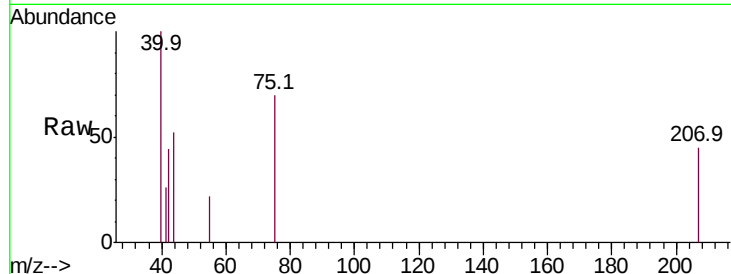




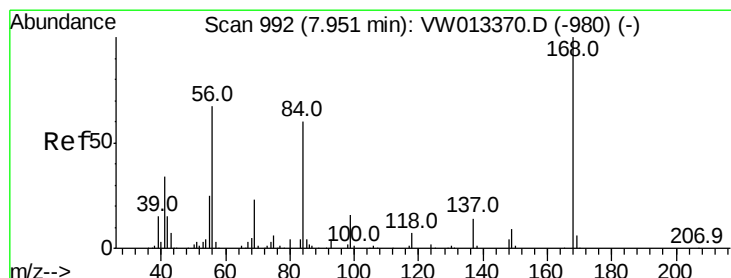
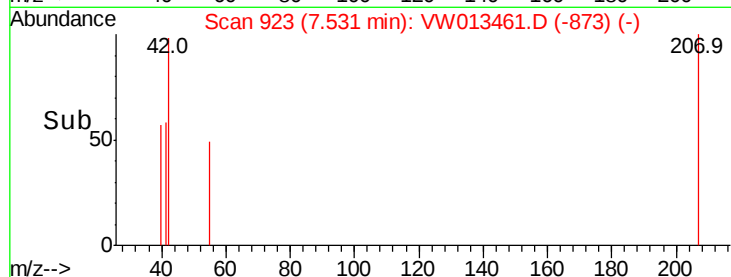
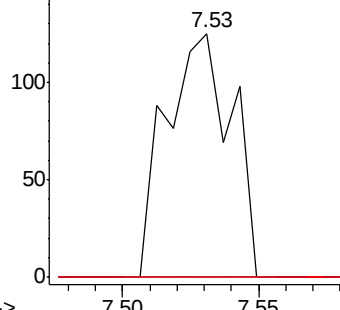
#29  
Tetrahydrofuran  
Concen: 10.038 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VW013461.D  
Acq: 07 Oct 2019 14:18

Instrument :  
MSVOA\_W  
ClientSampled :  
VIBLK

Tot Ion: 42 Resp: 209  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.9 50.9#  
71 0.0 31.9 47.9#

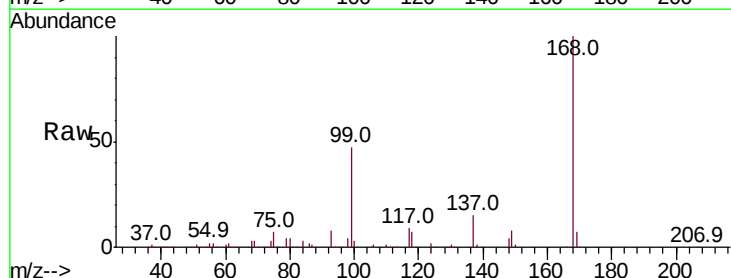


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

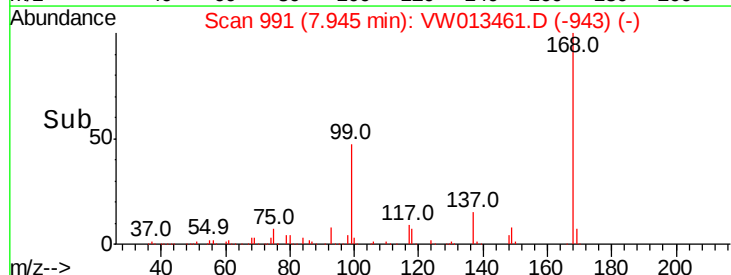
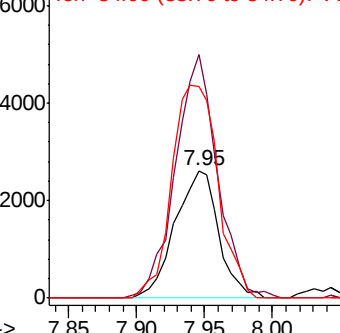


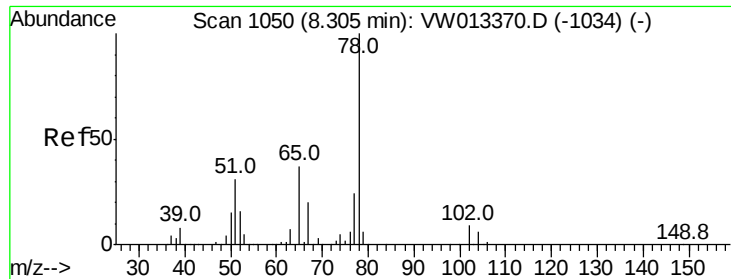
#31  
Cyclohexane  
Concen: 1.003 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW013461.D  
Acq: 07 Oct 2019 14:18

Tgt Ion: 56 Resp: 5855  
Ion Ratio Lower Upper  
56 100  
69 190.8 27.2 40.8#  
84 165.8 70.8 106.2#



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: 52.453 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampleId :

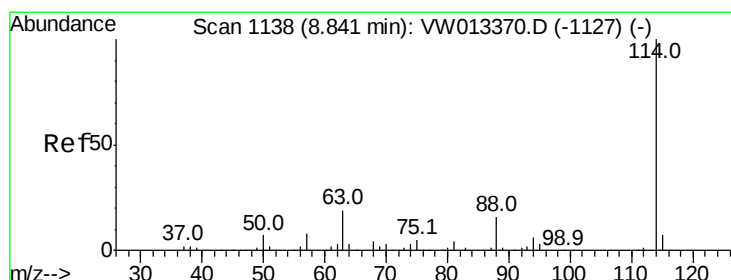
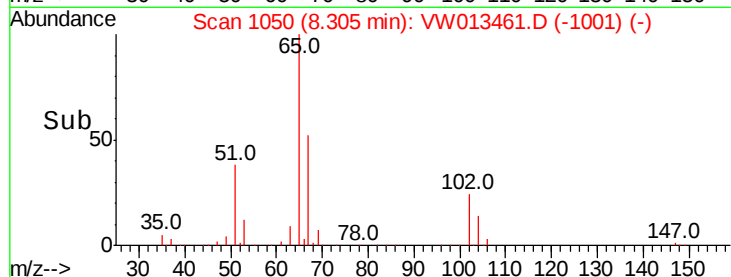
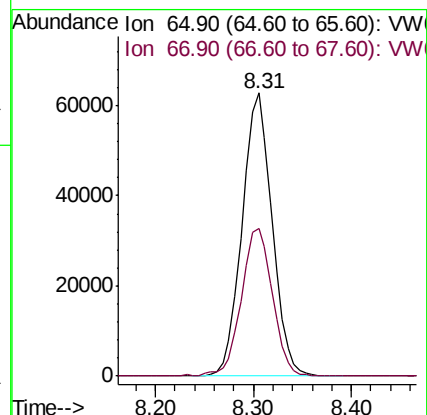
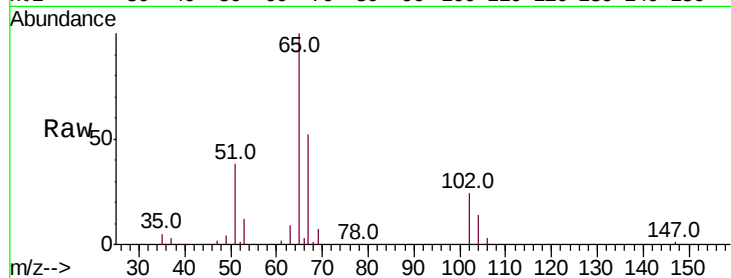
VIBLK

Tot Ion: 65 Resp: 133869

Ion Ratio Lower Upper

65 100

67 54.1 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

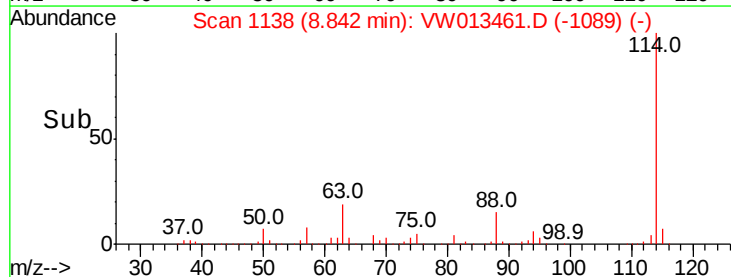
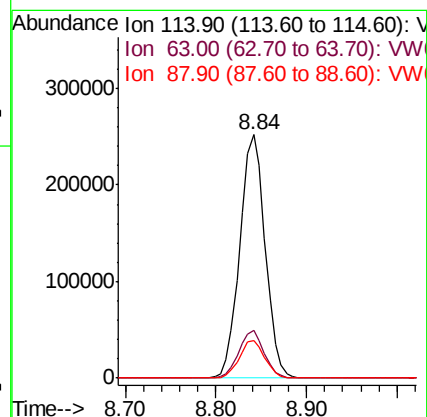
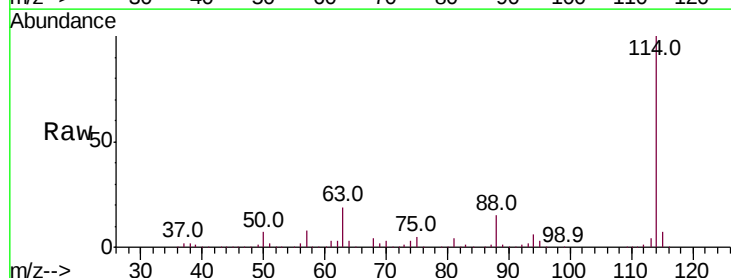
Tgt Ion: 114 Resp: 488488

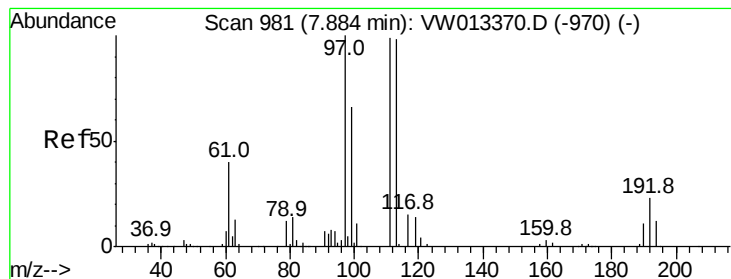
Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

88 15.3 0.0 32.0





#35

Dibromofluoromethane

Concen: 53.206 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampled :

VIBLK

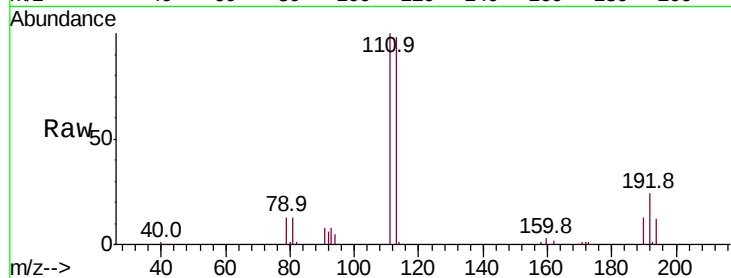
Tot Ion:113 Resp: 136378

Ion Ratio Lower Upper

113 100

111 100.5 81.9 122.9

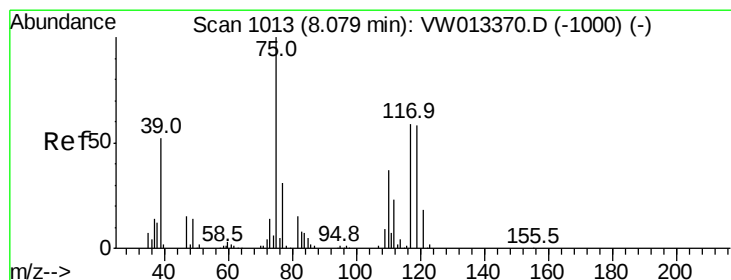
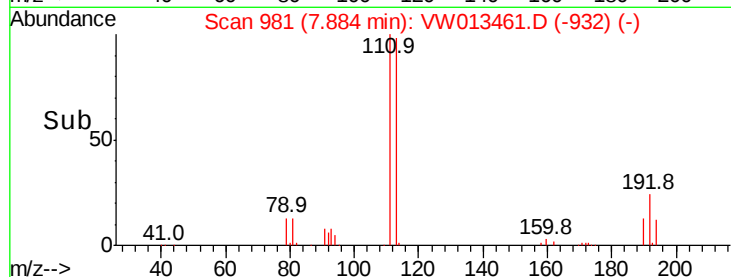
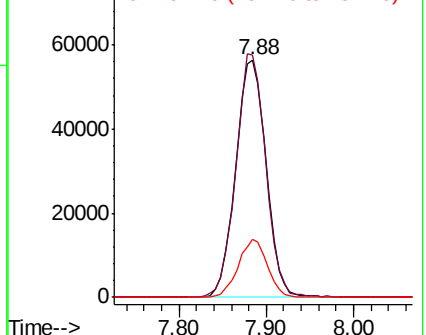
192 23.4 19.1 28.7



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: 4.738 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

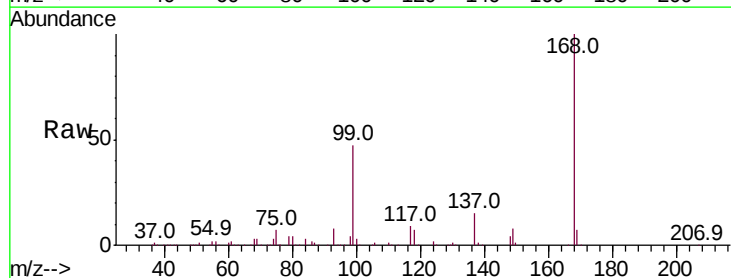
Tgt Ion: 75 Resp: 21495

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.3#

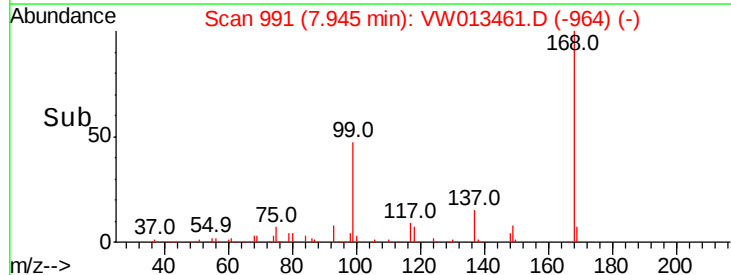
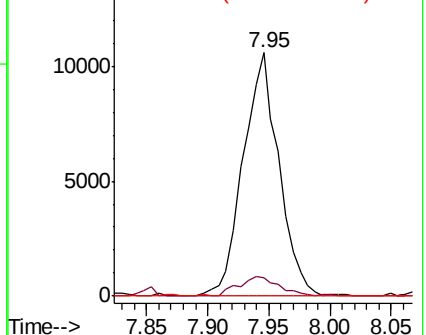
77 0.0 25.8 38.6#

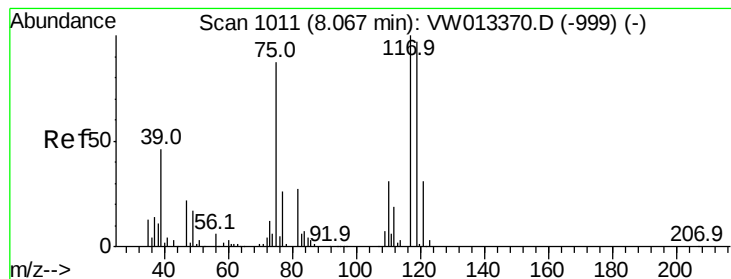


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.377 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampled :

VIBLK

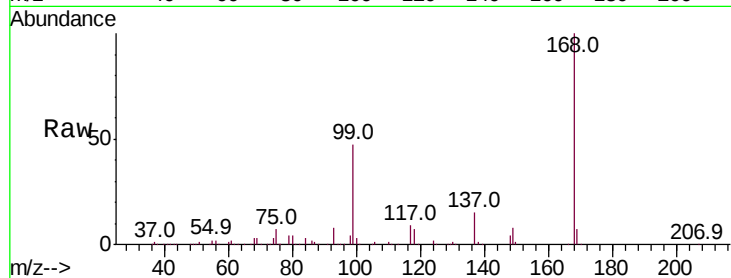
Tot Ion:117 Resp: 28993

Ion Ratio Lower Upper

117 100

119 3.3 73.5 110.3#

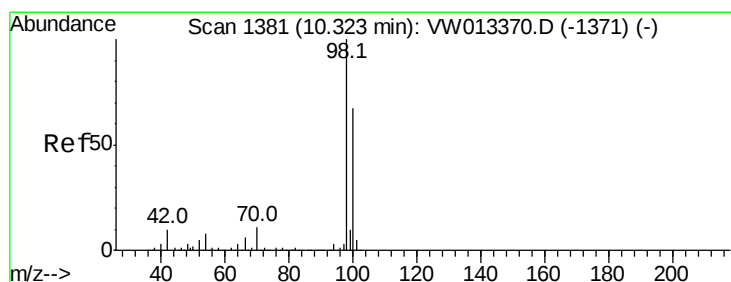
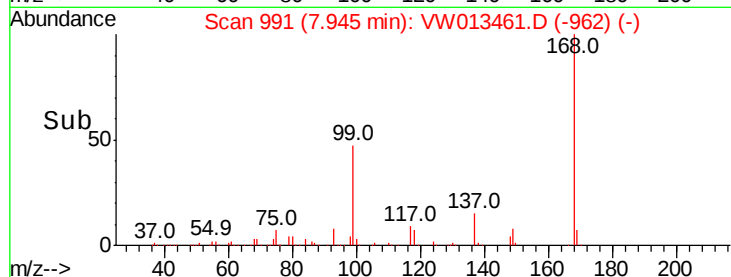
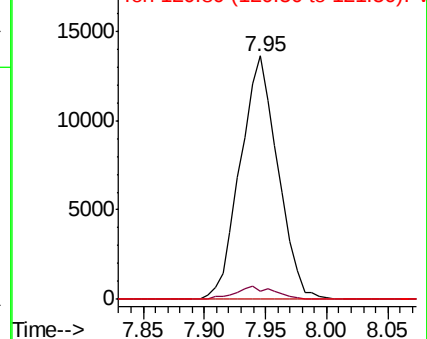
121 0.0 25.0 37.6#



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: 53.441 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013461.D

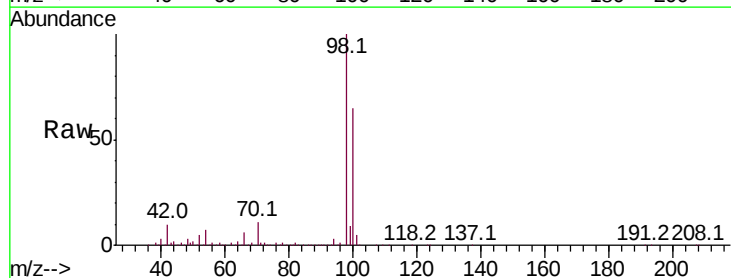
Acq: 07 Oct 2019 14:18

Tgt Ion: 98 Resp: 568448

Ion Ratio Lower Upper

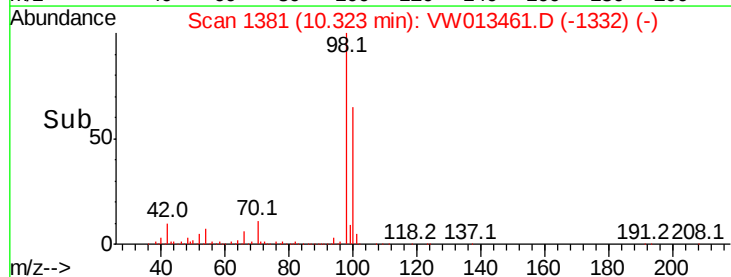
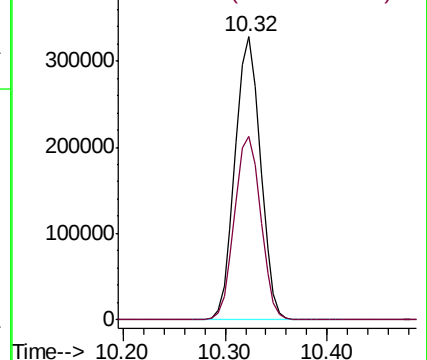
98 100

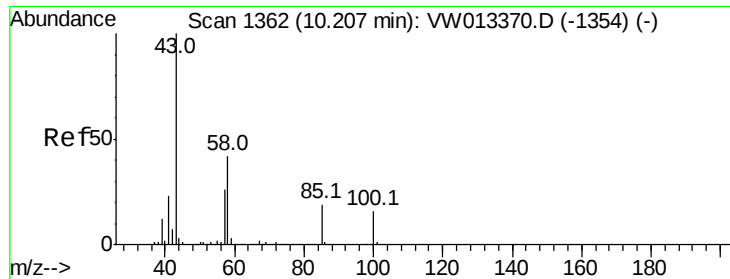
100 66.5 52.9 79.3



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: 1.430 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampleId :

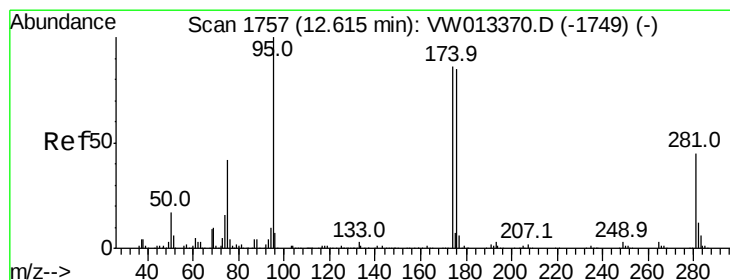
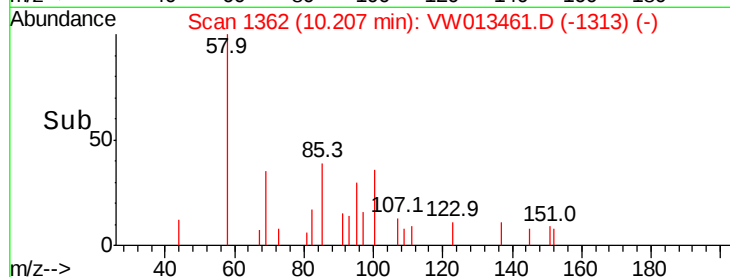
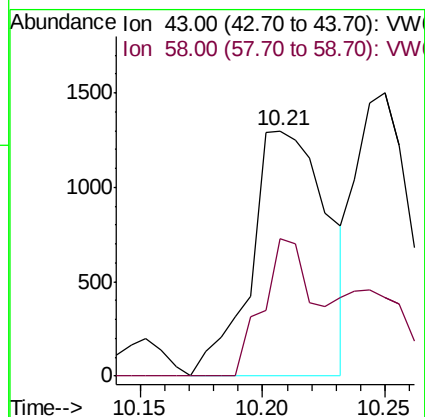
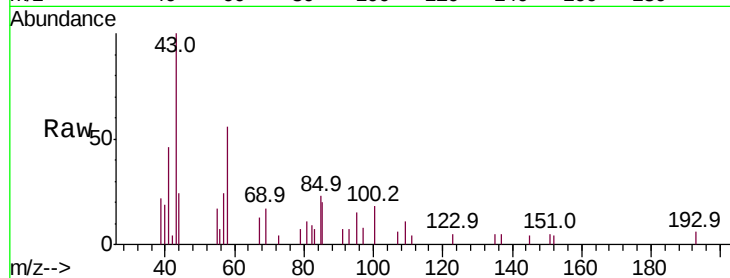
VIBLK

Tot Ion: 43 Resp: 2832

Ion Ratio Lower Upper

43 100

58 36.7 31.7 47.5



#62

4-Bromofluorobenzene

Concen: 56.615 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

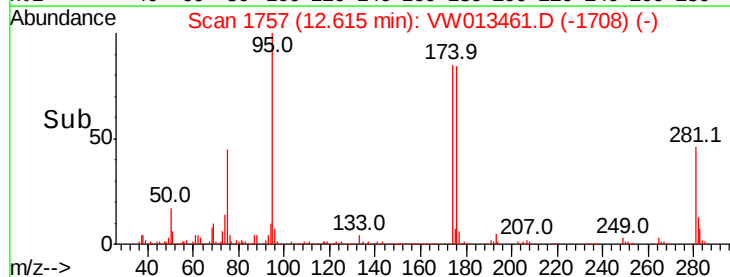
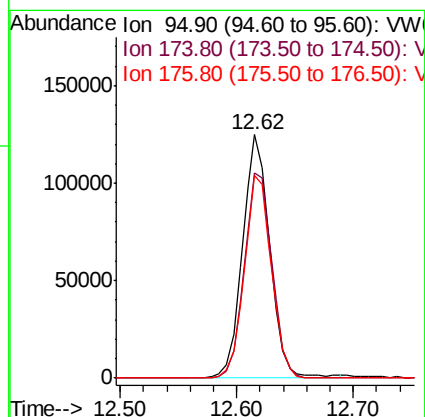
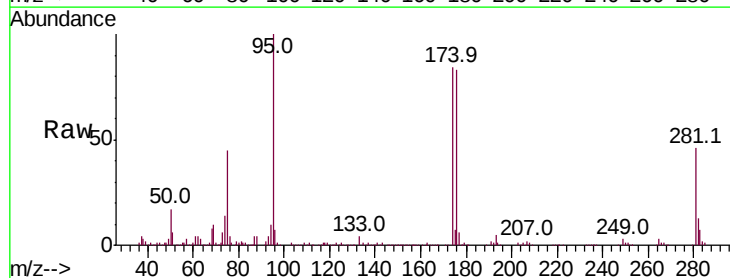
Tgt Ion: 95 Resp: 201099

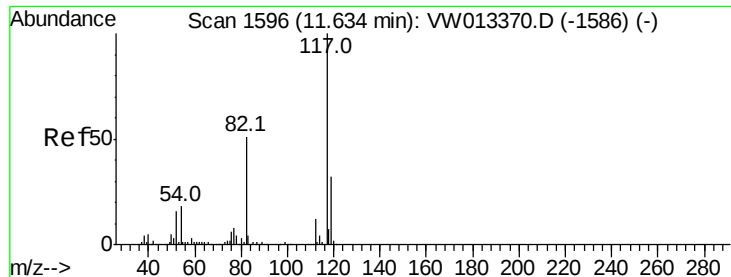
Ion Ratio Lower Upper

95 100

174 86.9 0.0 178.4

176 83.6 0.0 172.2

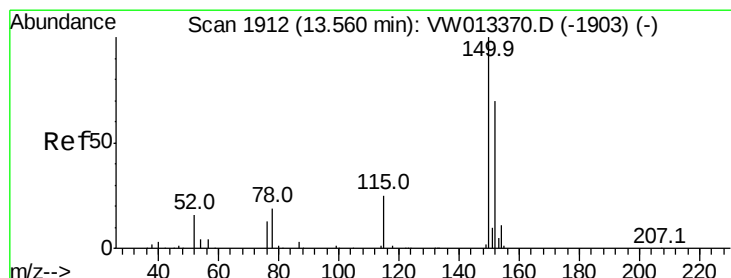
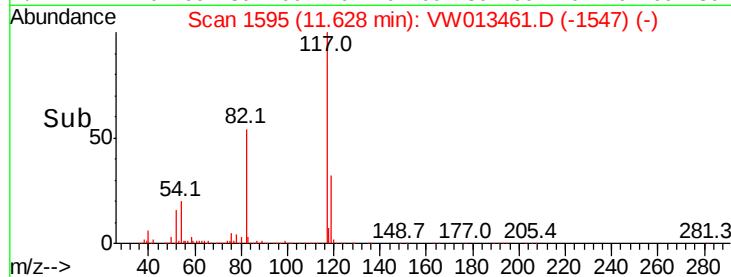
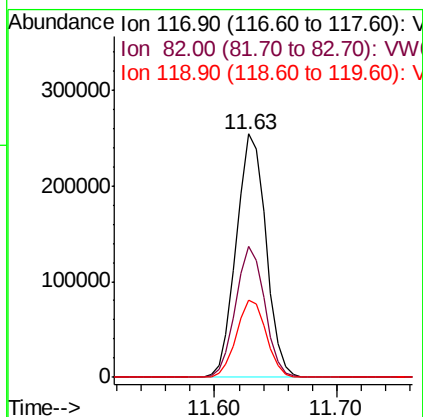
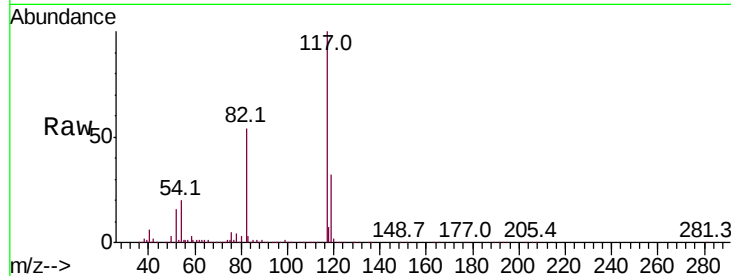




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW013461.D  
Acq: 07 Oct 2019 14:18

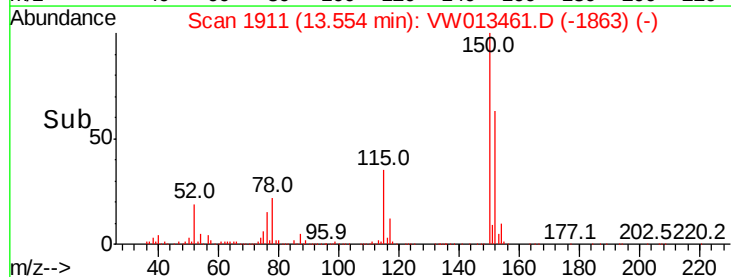
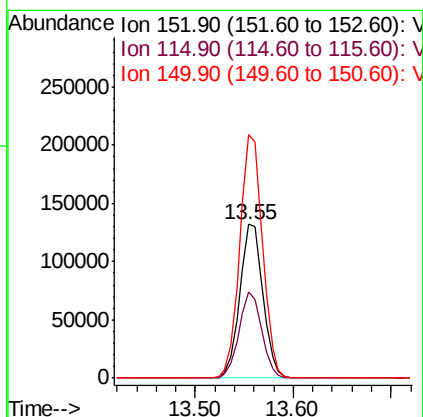
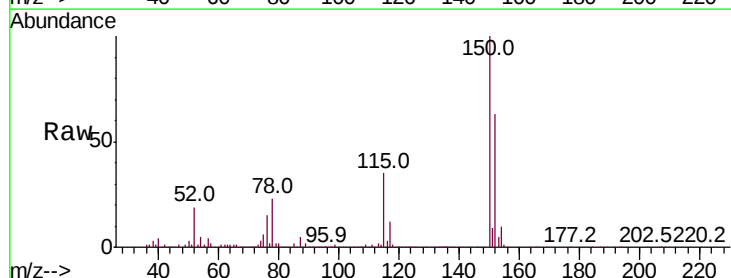
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

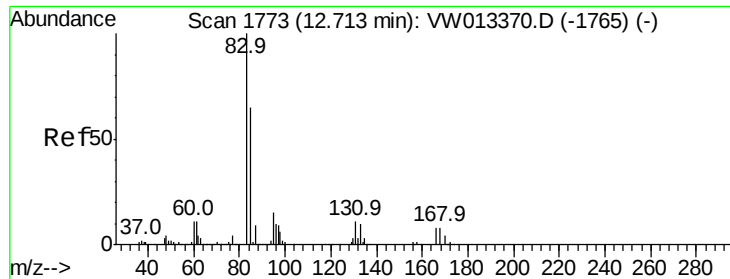
Tot Ion:117 Resp: 427191  
Ion Ratio Lower Upper  
117 100  
82 53.6 45.9 68.9  
119 31.7 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.01 min  
Lab File: VW013461.D  
Acq: 07 Oct 2019 14:18

Tgt Ion:152 Resp: 216495  
Ion Ratio Lower Upper  
152 100  
115 54.6 27.3 81.9  
150 156.0 0.0 349.0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.091 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.09 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampleId :

VIBLK

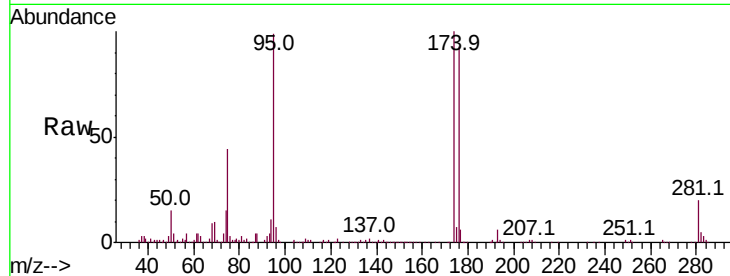
Tot Ion: 83 Resp: 8286

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

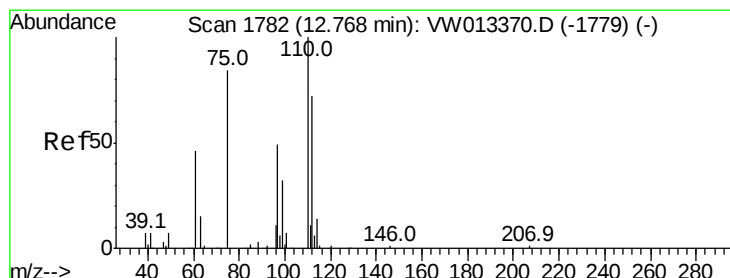
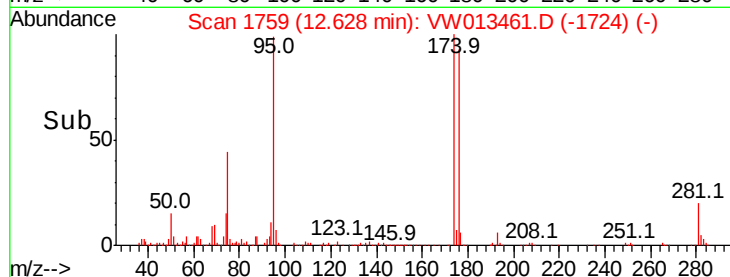
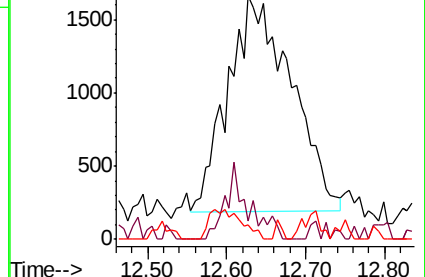
85 0.0 31.9 95.9#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 48.089 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013461.D

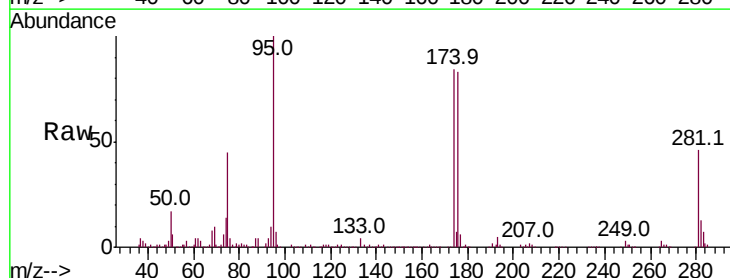
Acq: 07 Oct 2019 14:18

Tgt Ion: 75 Resp: 92531

Ion Ratio Lower Upper

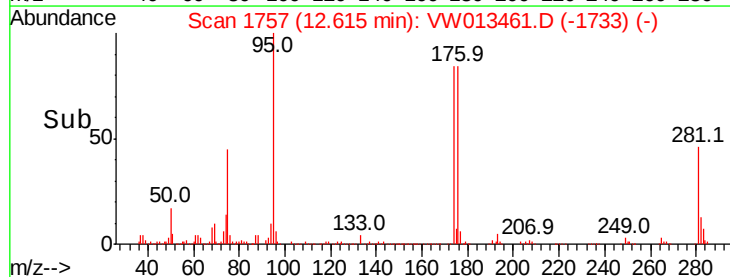
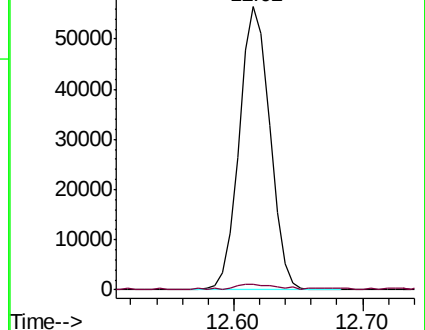
75 100

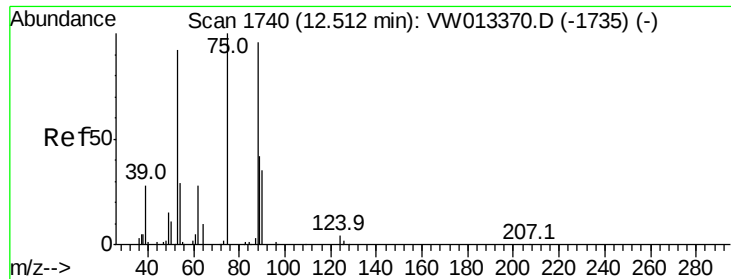
77 2.5 0.0 0.0#



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: 97.872 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013461.D

Acq: 07 Oct 2019 14:18

Instrument :

MSVOA\_W

ClientSampleId :

VIBLK

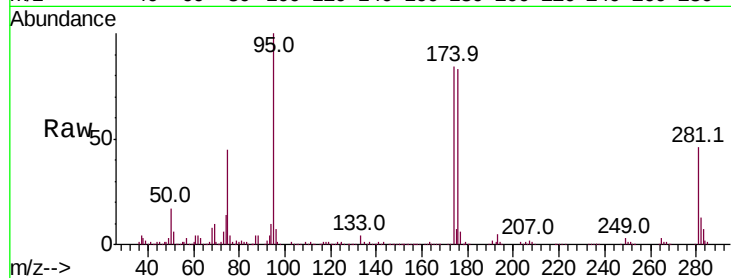
Tot Ion: 75 Resp: 92531

Ion Ratio Lower Upper

75 100

53 0.9 76.6 114.8#

89 0.5 33.5 50.3#



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

