

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW092419\  
 Data File : VW013273.D  
 Acq On : 24 Sep 2019 13:55  
 Operator : SY/VA  
 Sample : K4957-09RE  
 Misc : 5.10G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-32-9.5-10.0

Quant Time: Sep 25 07:10:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 20 15:58:08 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 341384   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 508574   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 432284   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 200195   | 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   | 139516   | 50.07 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.14% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 141096   | 50.44 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.88% |          |
| 50) Toluene-d8              | 10.32 | 98   | 591550   | 50.53 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.06% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 190118   | 47.54 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.08%  |          |

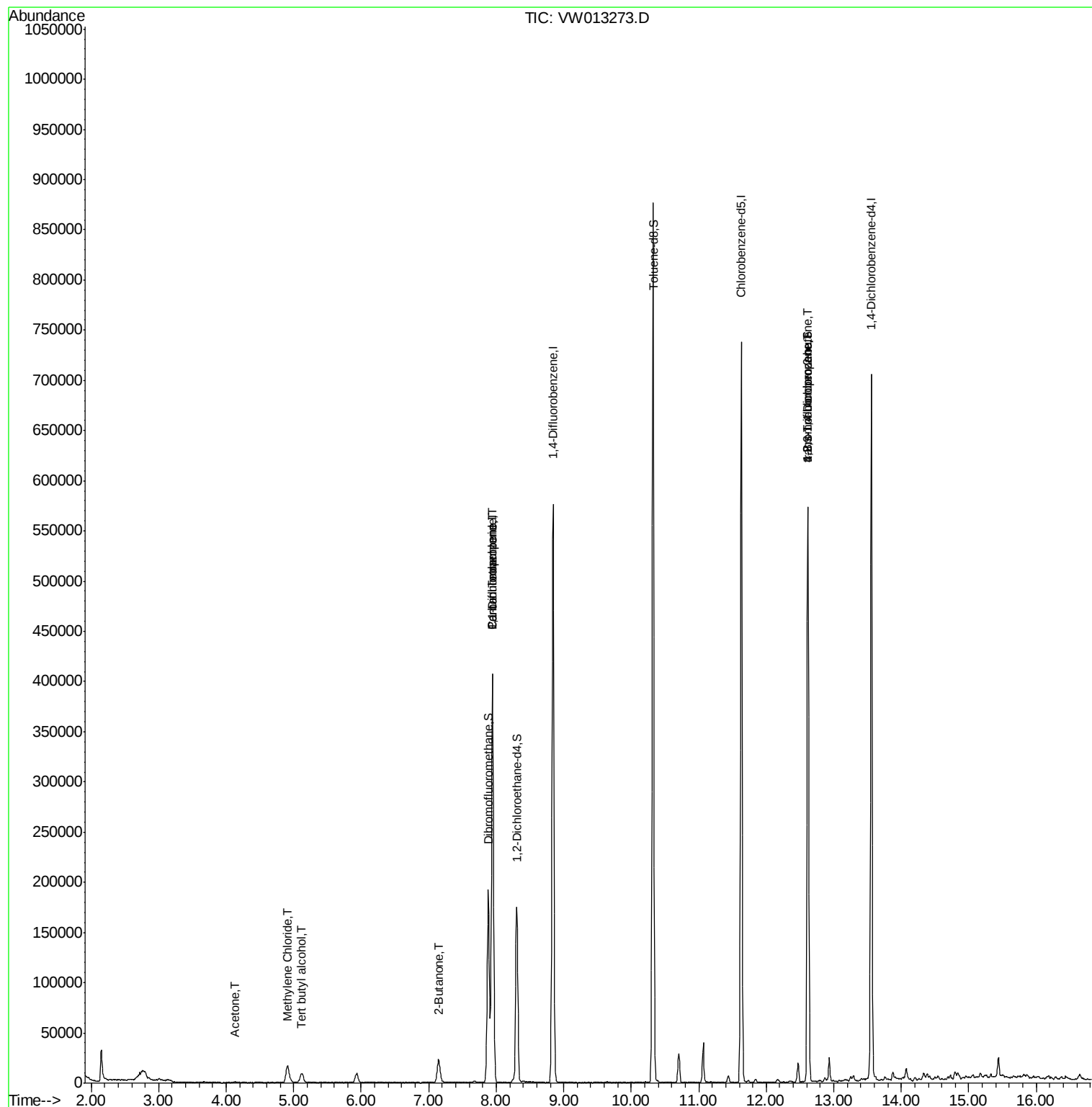
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.11  | 59   | 9428     | 38.453    | ug/l # | 74     |
| 16) Acetone                    | 4.14  | 43   | 1629     | 2.593     | ug/l   | 89     |
| 20) Methylene Chloride         | 4.91  | 84   | 14481    | 1.700     | ug/l   | 94     |
| 25) 2-Butanone                 | 7.15  | 43   | 1075     | 1.140     | ug/l # | 51     |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 1895     | Below Cal | #      | 52     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 21900    | 4.446     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 29685    | 6.723     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 89781    | 50.782    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 89781    | 113.949   | ug/l # | 12     |

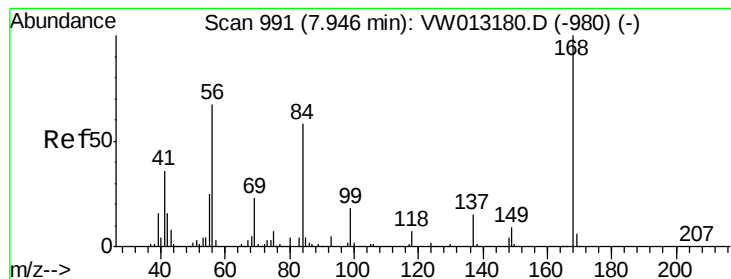
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013273.D

Acq: 24 Sep 2019 13:55

Instrument :

MSVOA\_W

ClientSampleId :

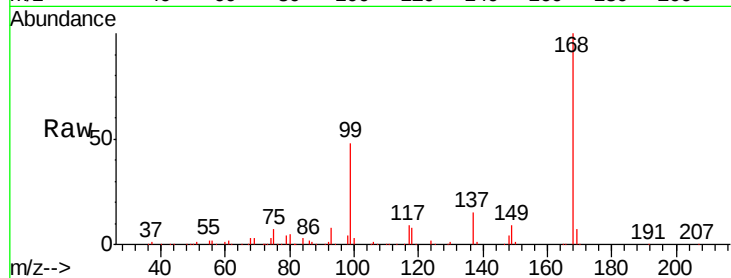
SB-32-9.5-10.0

Tgt Ion:168 Resp: 341384

Ion Ratio Lower Upper

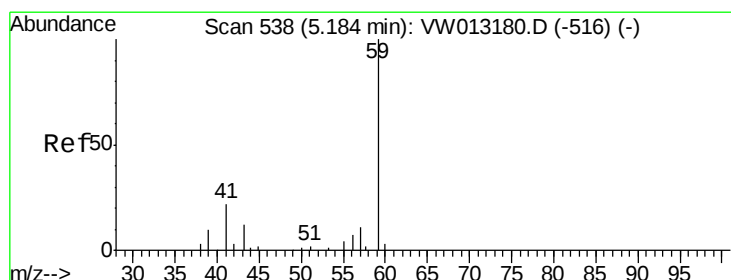
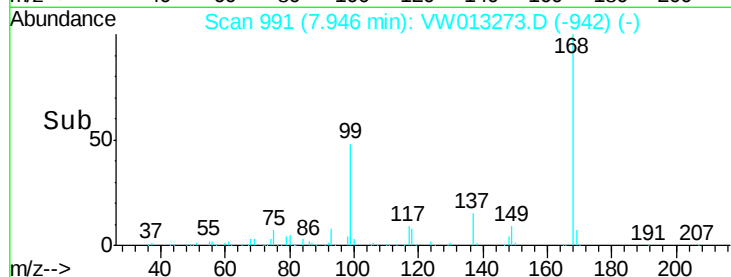
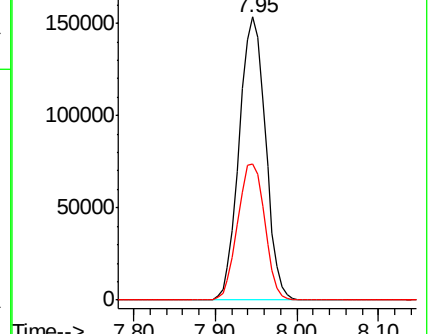
168 100

99 48.0 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 38.453 ug/l

RT: 5.11 min Scan# 526

Delta R.T. -0.07 min

Lab File: VW013273.D

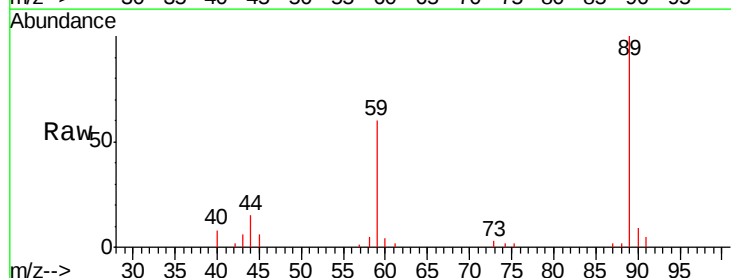
Acq: 24 Sep 2019 13:55

Tgt Ion: 59 Resp: 9428

Ion Ratio Lower Upper

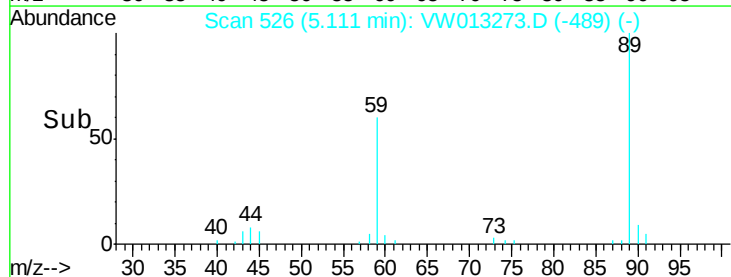
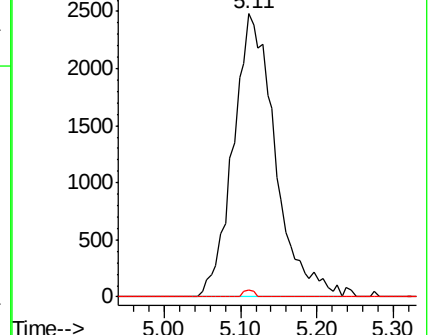
59 100

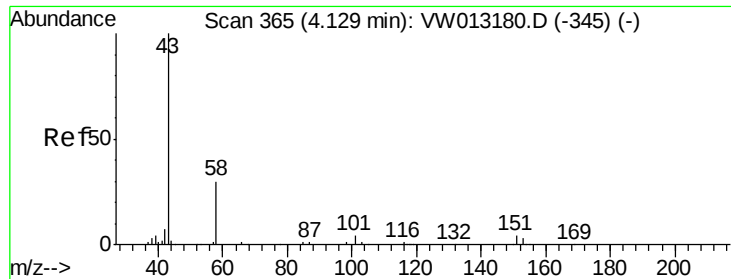
57 0.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 2.593 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

Instrument :

MSVOA\_W

ClientSampleId :

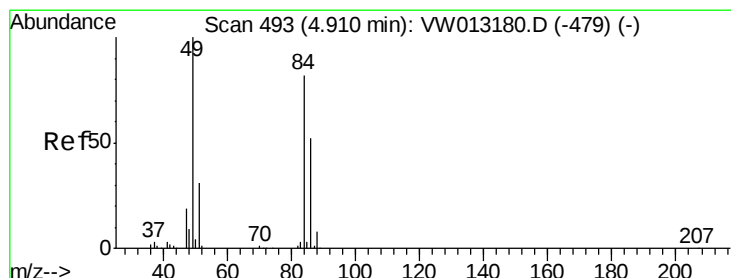
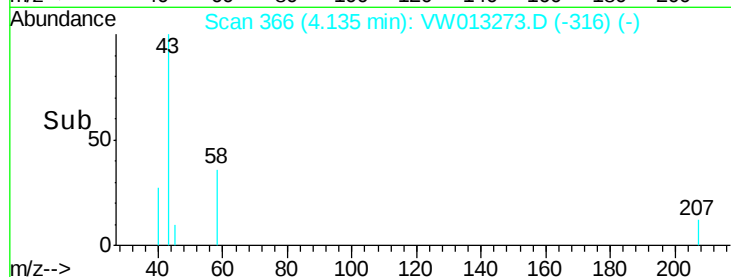
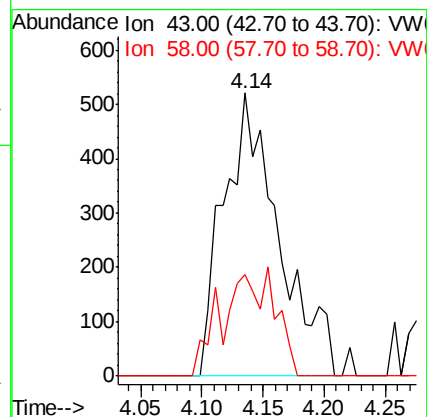
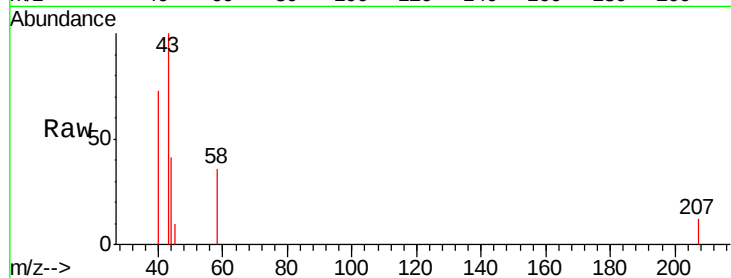
SB-32-9.5-10.0

Tgt Ion: 43 Resp: 1629

Ion Ratio Lower Upper

43 100

58 35.9 24.1 36.1



#20

Methylene Chloride

Concen: 1.700 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

Tgt Ion: 84 Resp: 14481

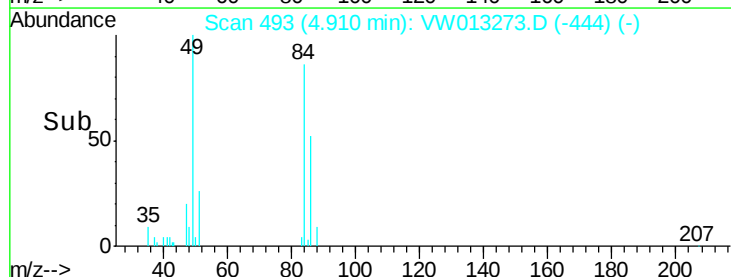
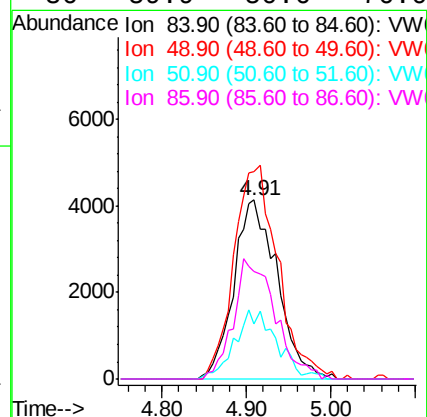
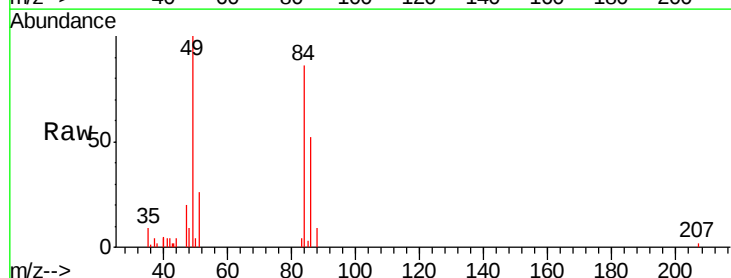
Ion Ratio Lower Upper

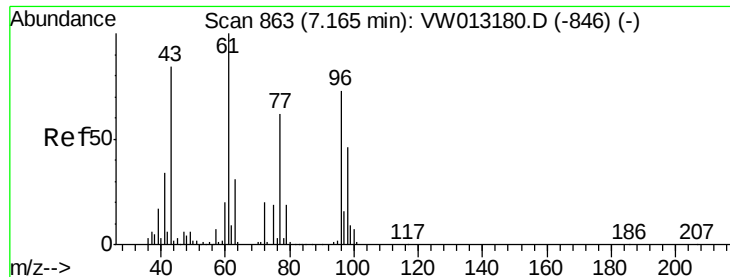
84 100

49 116.3 97.6 146.4

51 30.7 30.2 45.2

86 59.9 50.6 76.0





#25

2-Butanone

Concen: 1.140 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

Instrument :

MSVOA\_W

ClientSampleId :

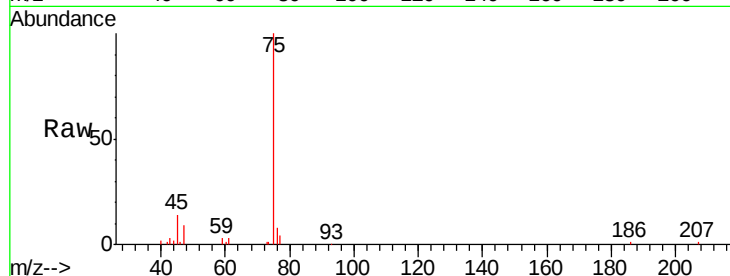
SB-32-9.5-10.0

Tgt Ion: 43 Resp: 1075

Ion Ratio Lower Upper

43 100

72 0.0 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.15

600

500

400

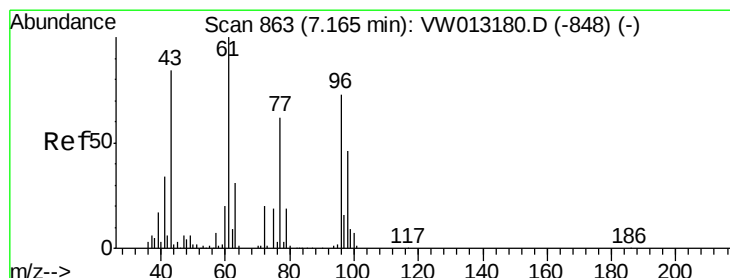
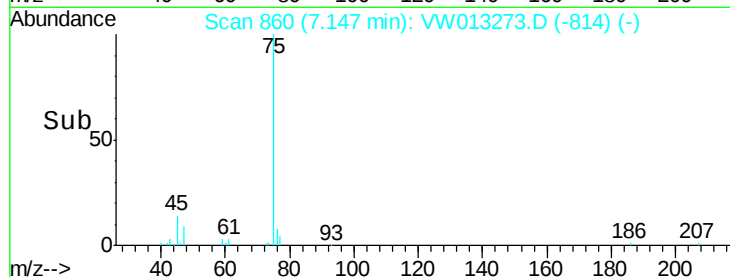
300

200

100

0

Time-->



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW013273.D

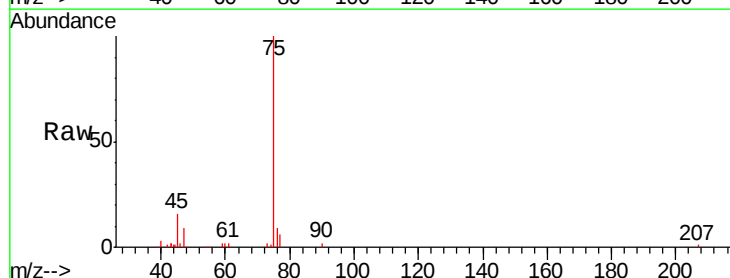
Acq: 24 Sep 2019 13:55

Tgt Ion: 77 Resp: 1895

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.13

800

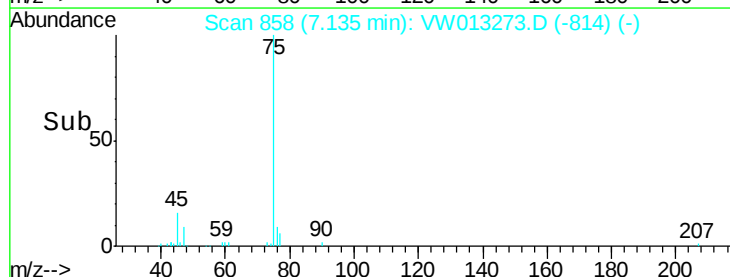
600

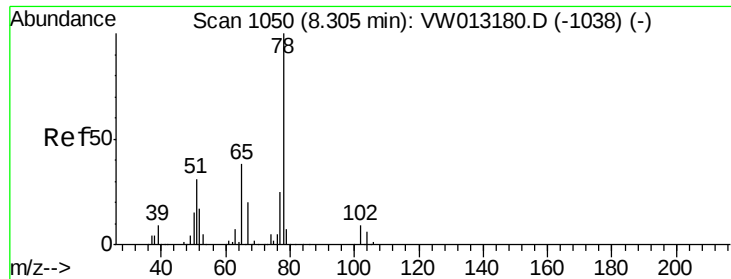
400

200

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 50.074 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

Instrument :

MSVOA\_W

ClientSampleId :

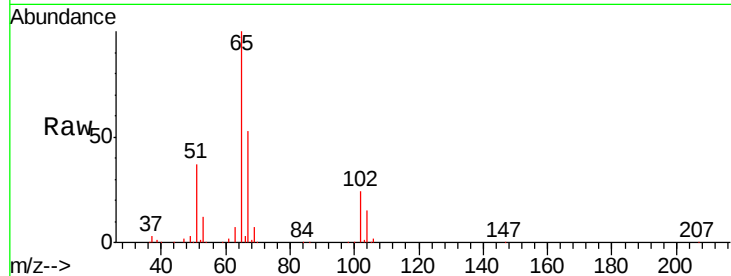
SB-32-9.5-10.0

Tgt Ion: 65 Resp: 139516

Ion Ratio Lower Upper

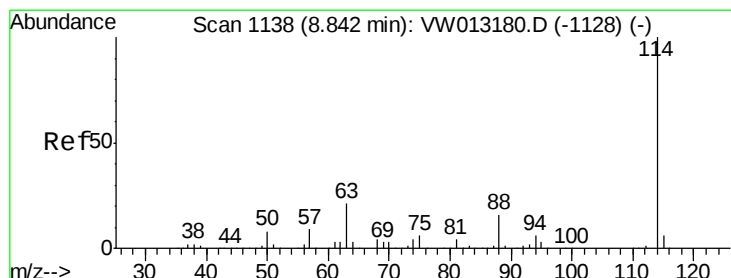
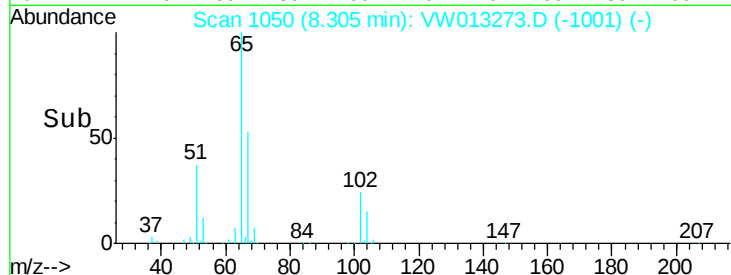
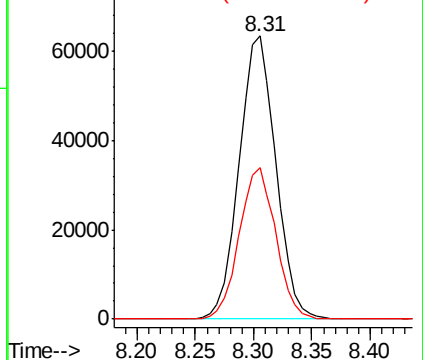
65 100

67 53.1 0.0 106.2



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: VW013273.D

Acq: 24 Sep 2019 13:55

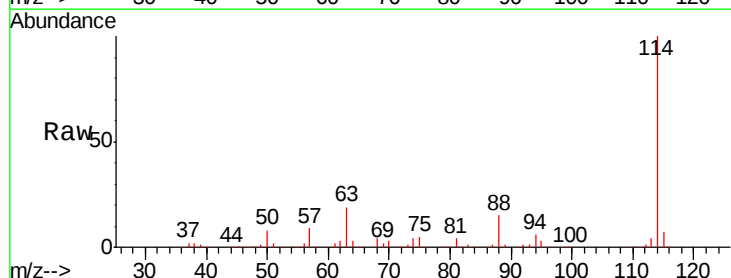
Tgt Ion: 114 Resp: 508574

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

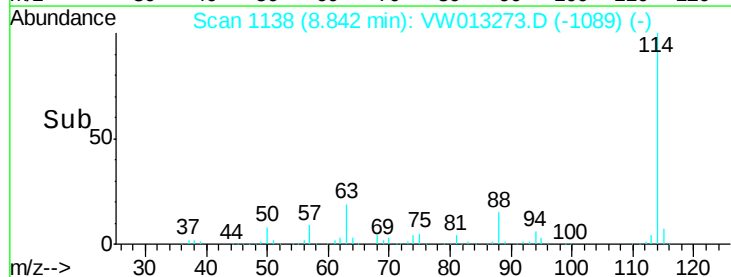
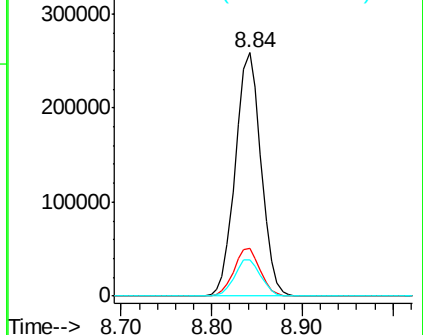
88 14.7 0.0 32.0

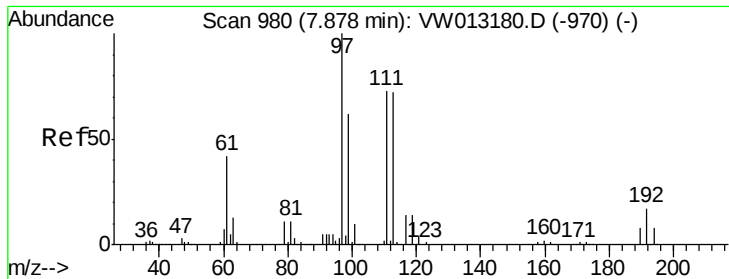


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

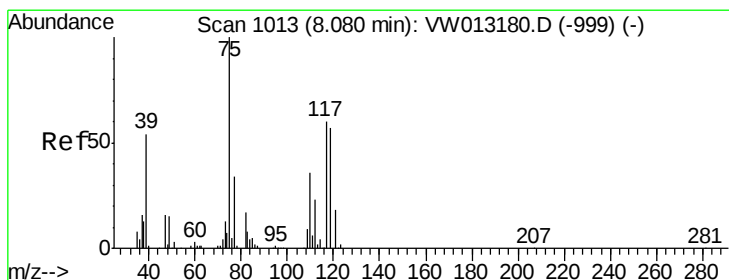
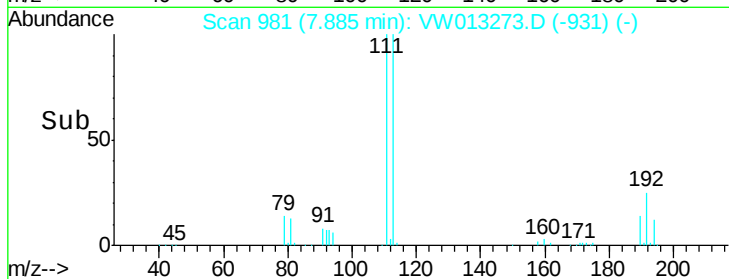
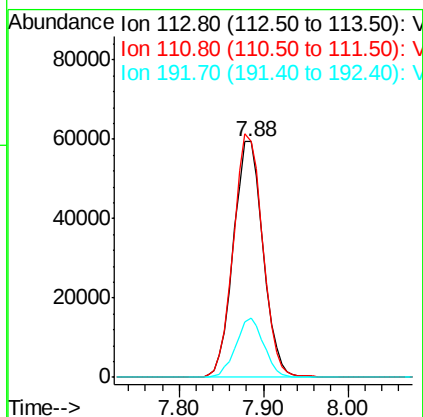
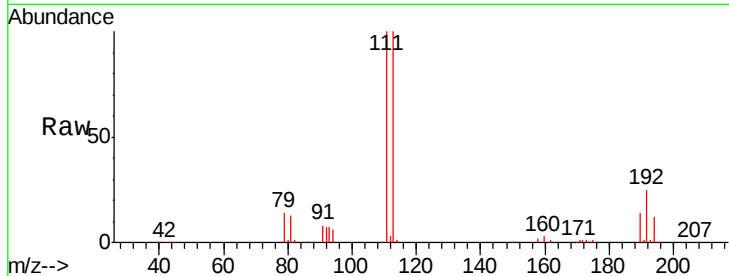




#35  
 Dibromofluoromethane  
 Concen: 50.443 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.01 min  
 Lab File: VW013273.D  
 Acq: 24 Sep 2019 13:55

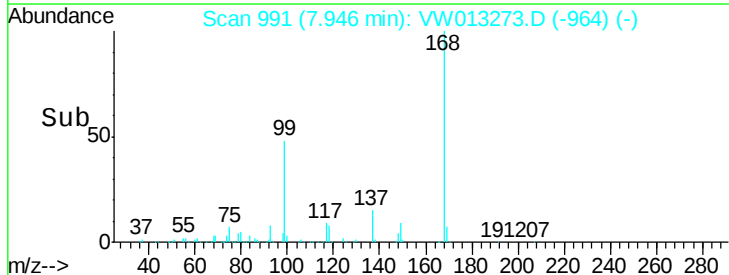
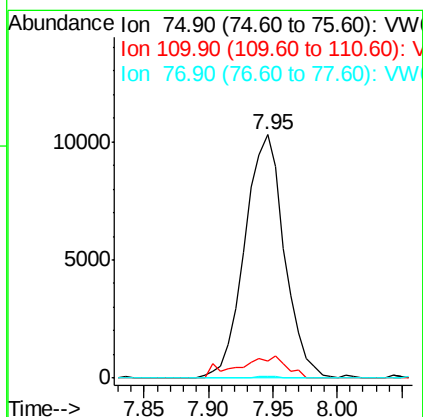
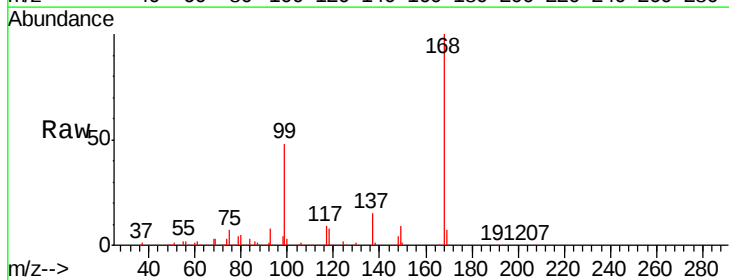
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-32-9.5-10.0

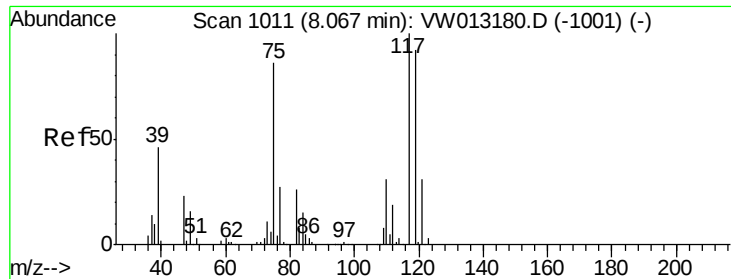
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.9  | 122.9 |
| 192     | 23.4  | 19.1  | 28.7  |



#36  
 1,1-Dichloropropene  
 Concen: 4.446 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW013273.D  
 Acq: 24 Sep 2019 13:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.1  | 18.1  | 54.3# |
| 77      | 0.4   | 25.8  | 38.6# |

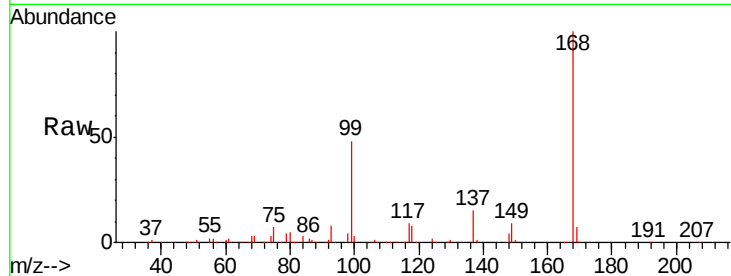




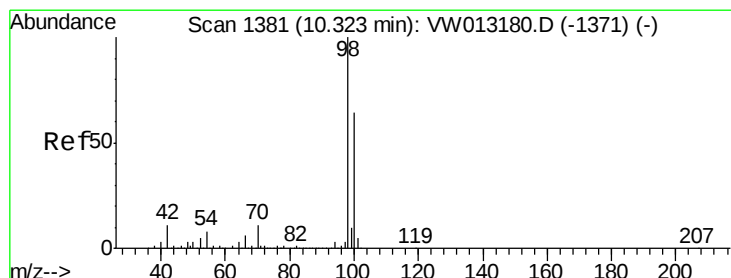
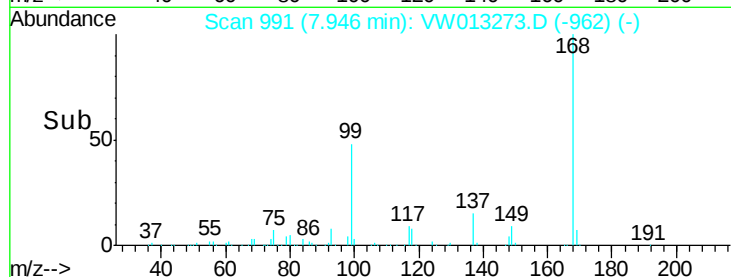
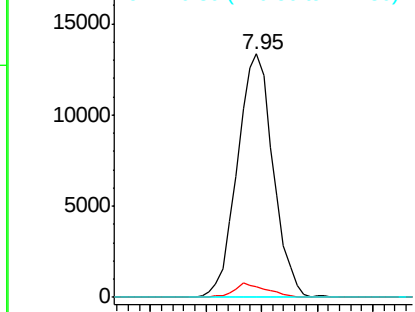
#38  
Carbon Tetrachloride  
Concen: 6.723 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW013273.D  
Acq: 24 Sep 2019 13:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-32-9.5-10.0

Tgt Ion:117 Resp: 29685  
Ion Ratio Lower Upper  
117 100  
119 4.3 73.5 110.3#  
121 0.0 25.0 37.6#

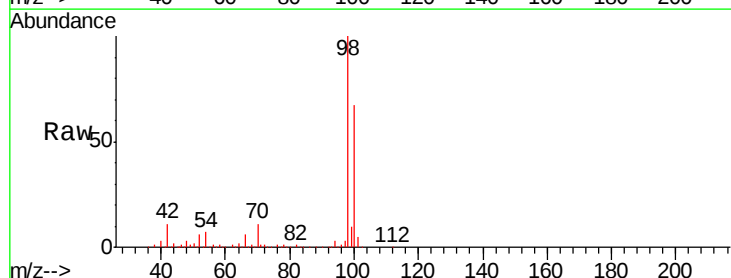


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

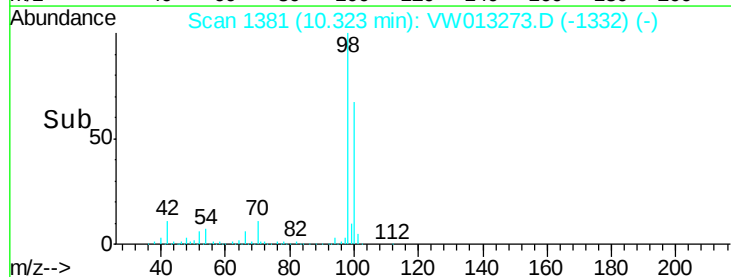
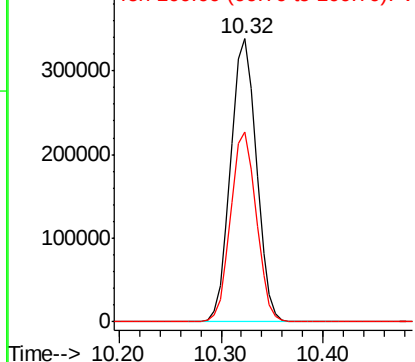


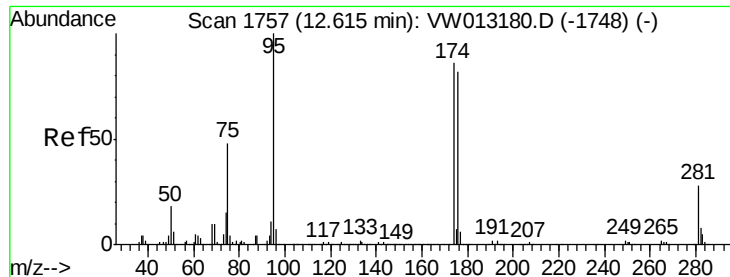
#50  
Toluene-d8  
Concen: 50.532 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW013273.D  
Acq: 24 Sep 2019 13:55

Tgt Ion: 98 Resp: 591550  
Ion Ratio Lower Upper  
98 100  
100 66.6 52.9 79.3



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





#62

4-Bromofluorobenzene

Concen: 47.544 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

Instrument :

MSVOA\_W

ClientSampleId :

SB-32-9.5-10.0

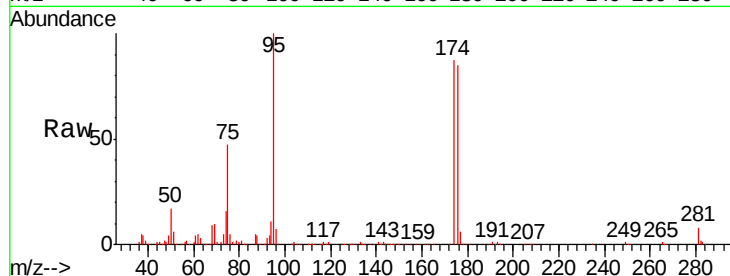
Tgt Ion: 95 Resp: 190118

Ion Ratio Lower Upper

95 100

174 89.4 0.0 178.4

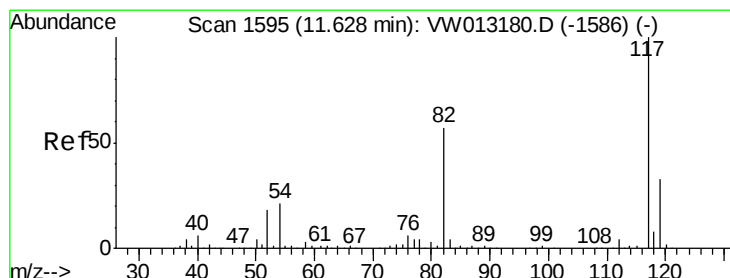
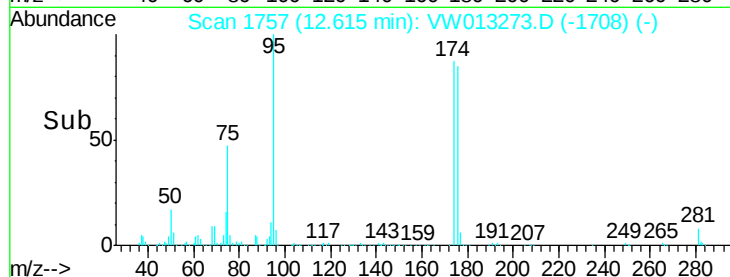
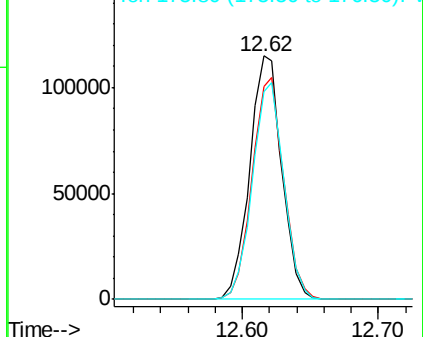
176 87.3 0.0 172.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

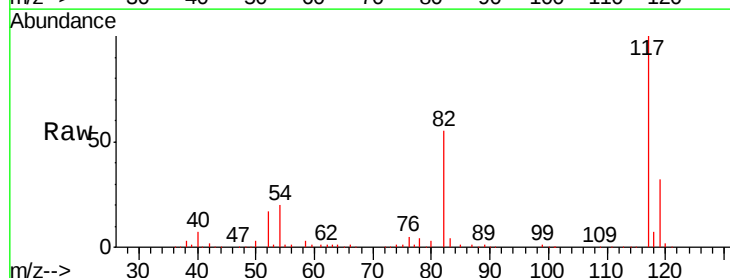
Tgt Ion: 117 Resp: 432284

Ion Ratio Lower Upper

117 100

82 54.7 45.9 68.9

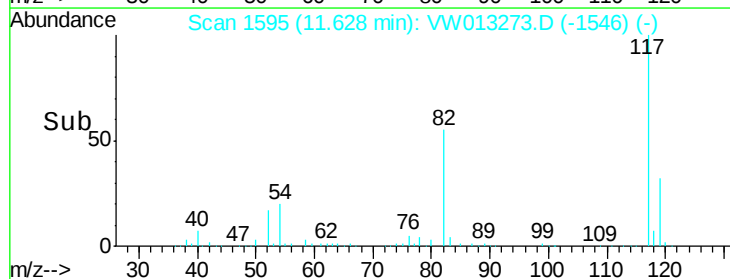
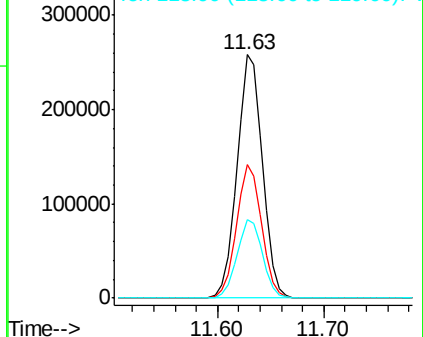
119 32.3 26.2 39.2

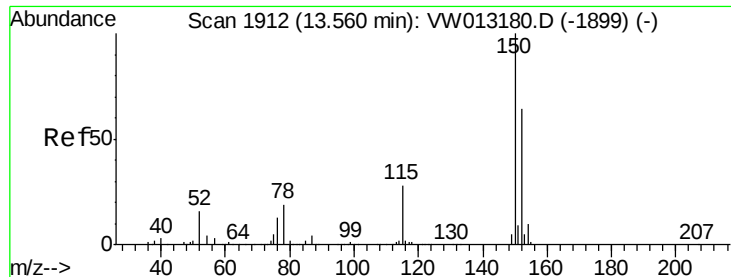


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW013273.D

Acq: 24 Sep 2019 13:55

Instrument :

MSVOA\_W

ClientSampleId :

SB-32-9.5-10.0

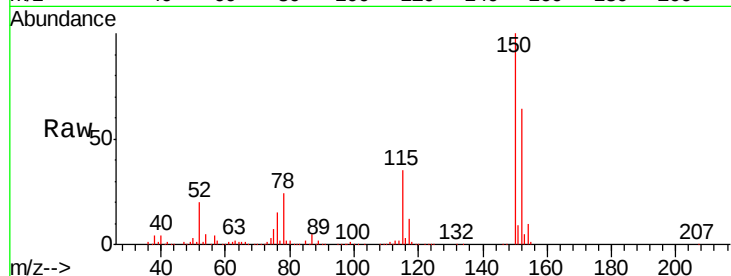
Tgt Ion:152 Resp: 200195

Ion Ratio Lower Upper

152 100

115 54.2 27.3 81.9

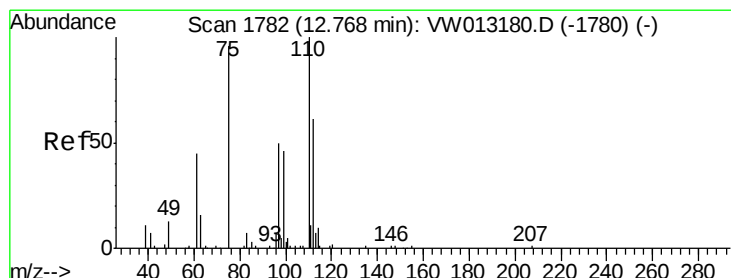
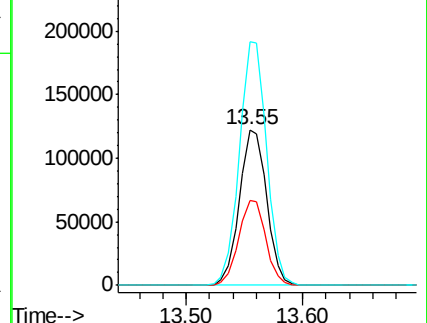
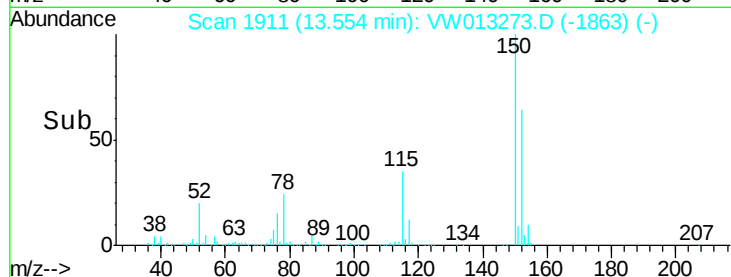
150 156.2 0.0 349.0



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: 50.782 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013273.D

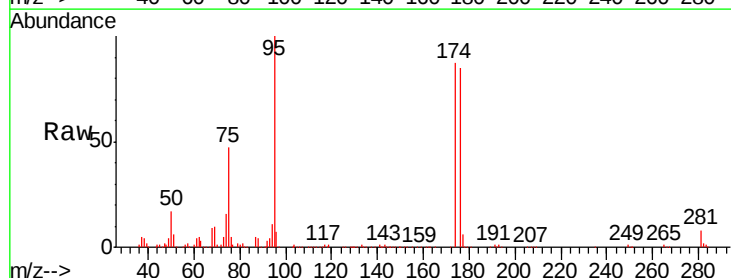
Acq: 24 Sep 2019 13:55

Tgt Ion: 75 Resp: 89781

Ion Ratio Lower Upper

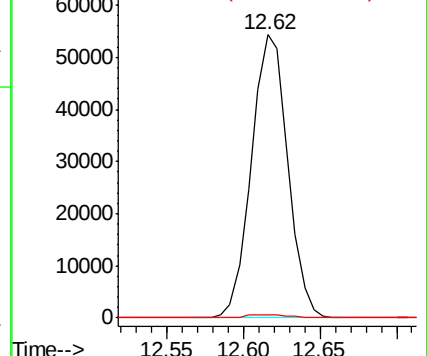
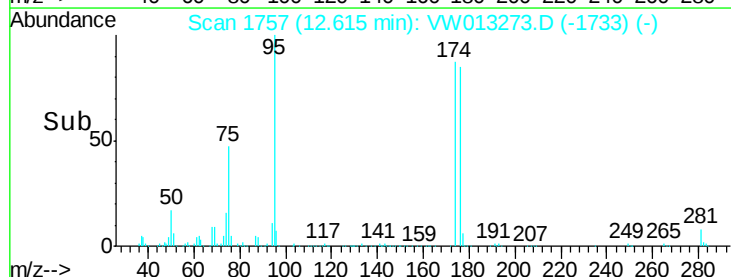
75 100

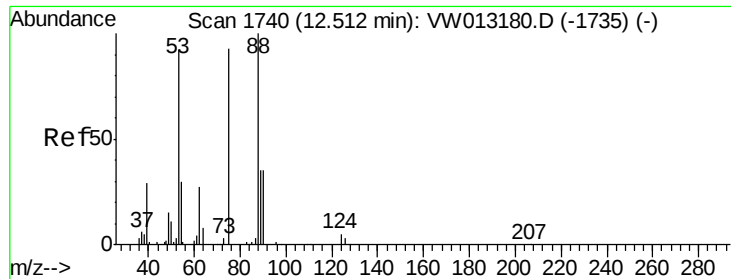
77 1.4 0.0 0.0#



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: 113.949 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW013273.D  
 Acq: 24 Sep 2019 13:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-32-9.5-10.0

Tgt Ion: 75 Resp: 89781  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 76.6 114.8#  
 89 0.1 33.5 50.3#

