

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082220\  
 Data File : VW016305.D  
 Acq On : 21 Aug 2020 14:55  
 Operator : SY/VA  
 Sample : L3746-05  
 Misc : 7.20G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

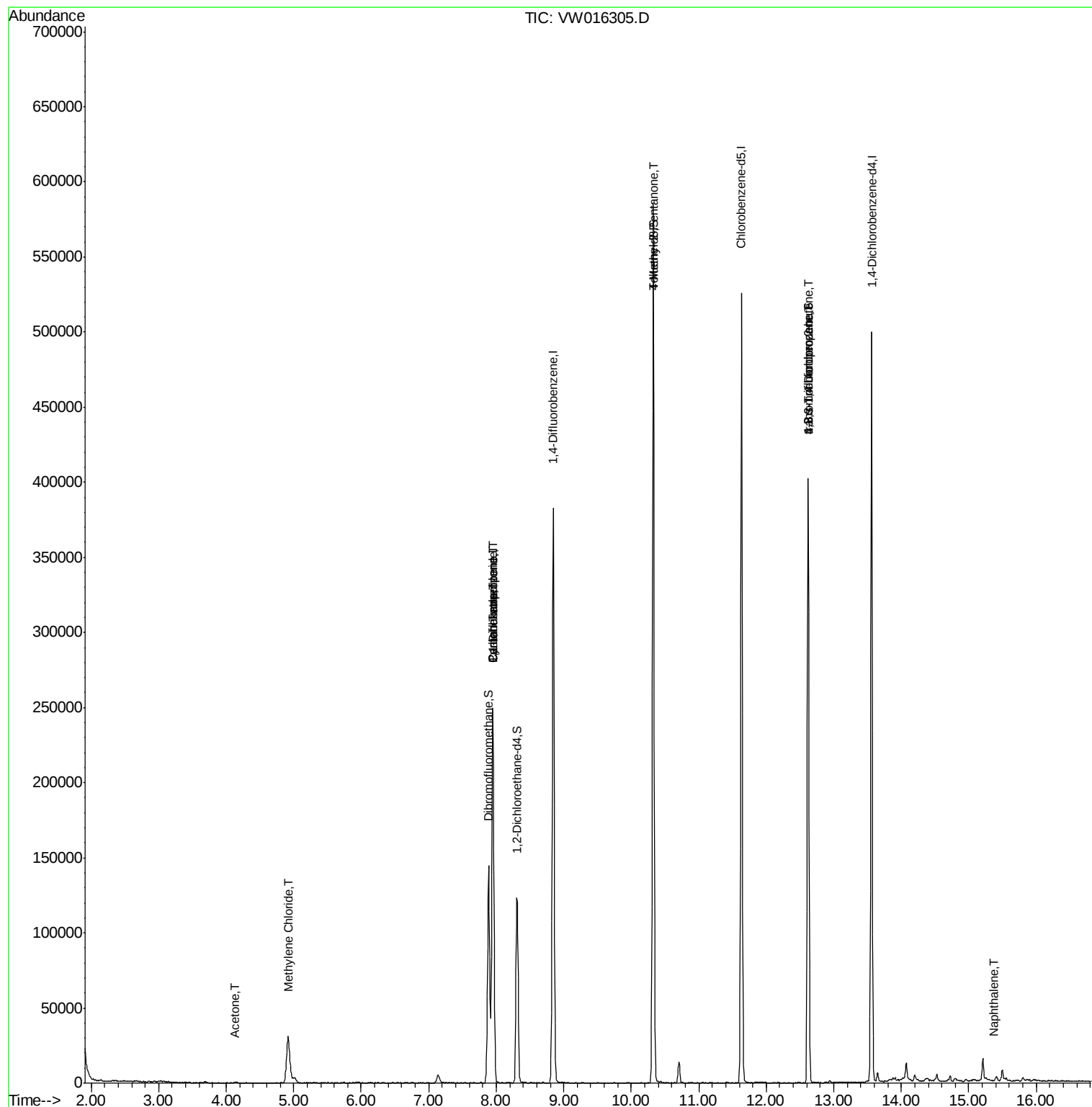
Quant Time: Aug 22 06:03:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081420S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 17 08:01:41 2020  
 Response via : Initial Calibration

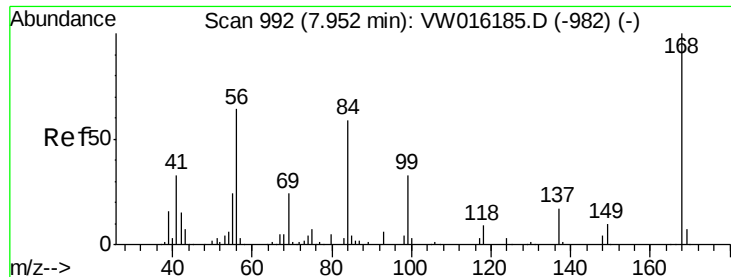
| Internal Standards             | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.95   | 168  | 187927   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84   | 114  | 344457   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63  | 117  | 309618   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56  | 152  | 133583   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.31   | 65   | 99721    | 54.41   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 108.82% |          |
| 35) Dibromofluoromethane       | 7.89   | 113  | 104929   | 49.37   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 98.74%  |          |
| 50) Toluene-d8                 | 10.33  | 98   | 410424   | 49.89   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 99.78%  |          |
| 62) 4-Bromofluorobenzene       | 12.62  | 95   | 141845   | 48.24   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 96.48%  |          |
| Target Compounds               |        |      |          |         |         |          |
|                                |        |      |          |         | Qvalue  |          |
| 16) Acetone                    | 4.13   | 43   | 711      | 2.025   | ug/l #  | 87       |
| 20) Methylene Chloride         | 4.92   | 84   | 28606    | 9.072   | ug/l    | 95       |
| 31) Cyclohexane                | 7.95   | 56   | 3403     | 1.017   | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.95   | 75   | 13768    | 4.057   | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.95   | 117  | 19459    | 5.746   | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.33  | 43   | 1574     | 1.422   | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.62  | 75   | 68140    | 55.465  | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.62  | 75   | 68140    | 133.040 | ug/l #  | 12       |
| 95) Naphthalene                | 15.36  | 128  | 478      | 3.668   | ug/l #  | 69       |

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

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Quant Time: Aug 22 06:03:01 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W081420S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 17 08:01:41 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016305.D

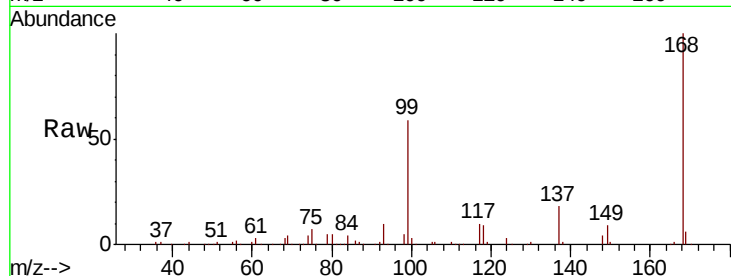
Acq: 21 Aug 2020 14:55

Tot Ion:168 Resp: 187927

Ion Ratio Lower Upper

168 100

99 58.6 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

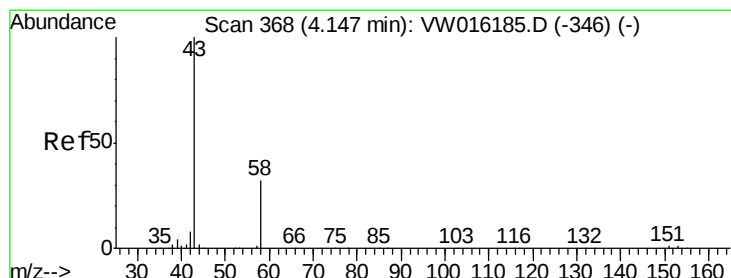
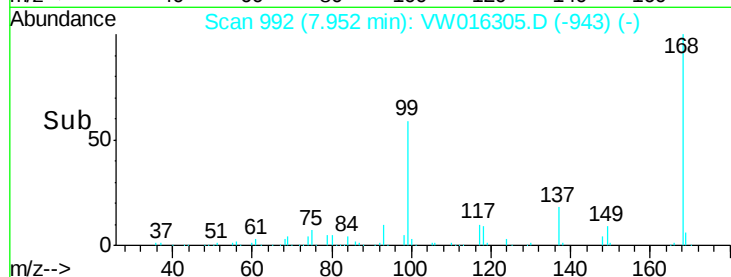
40000

20000

0

7.90 8.00 8.10

Time-->



#16

Acetone

Concen: 2.025 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.02 min

Lab File: VW016305.D

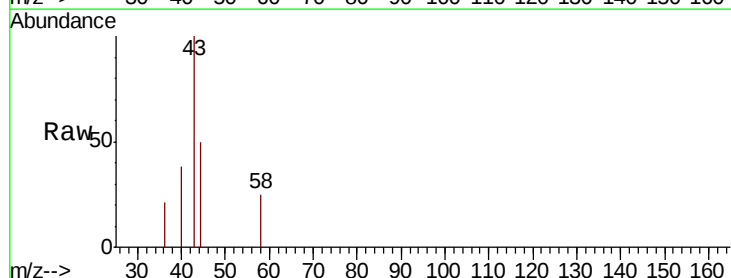
Acq: 21 Aug 2020 14:55

Tgt Ion: 43 Resp: 711

Ion Ratio Lower Upper

43 100

58 24.8 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

300

250

200

150

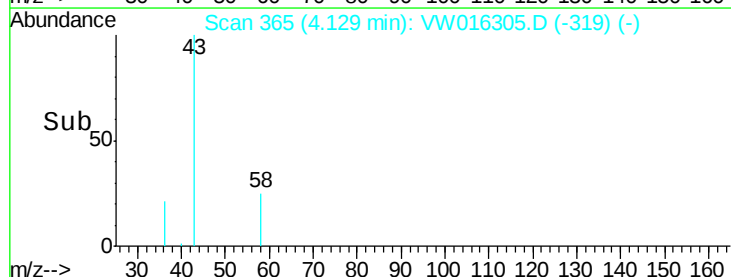
100

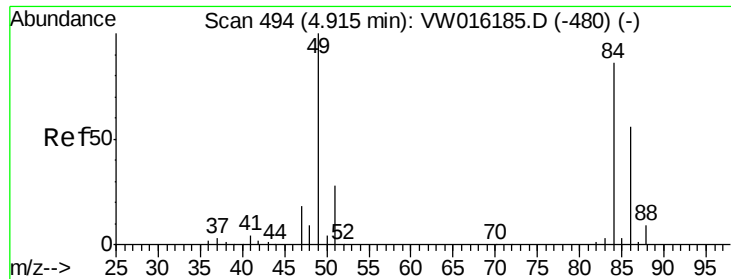
50

0

4.10 4.15 4.20

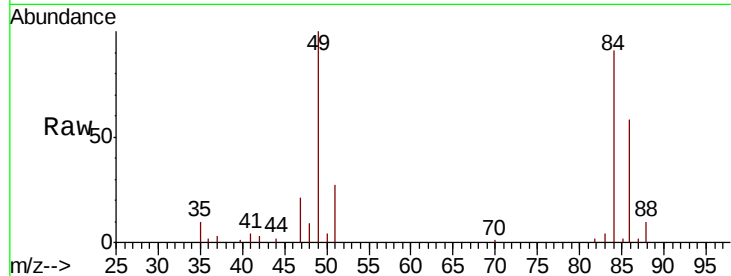
Time-->



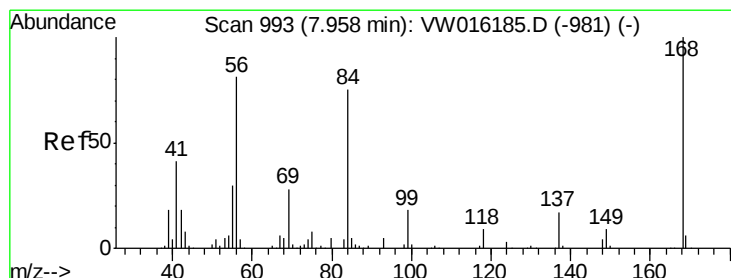
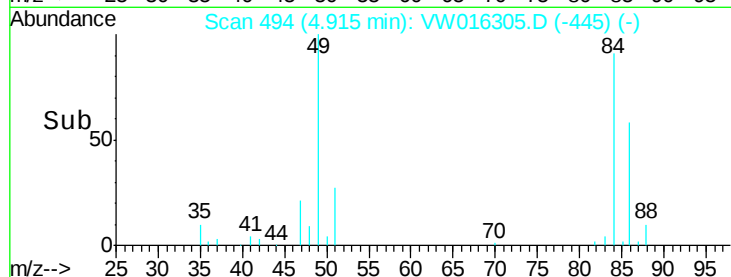
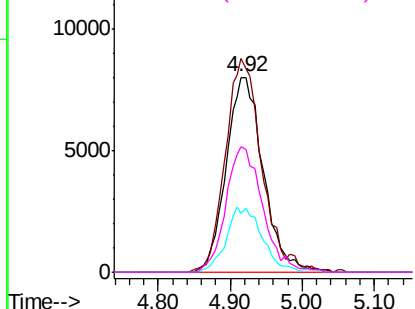


#20  
Methvlene Chloride  
Concen: 9.072 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW016305.D  
Acq: 21 Aug 2020 14:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 28606 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.6 | 93.4  | 140.2 |
| 51       | 30.0  | 26.6  | 40.0  |
| 86       | 64.1  | 52.2  | 78.2  |

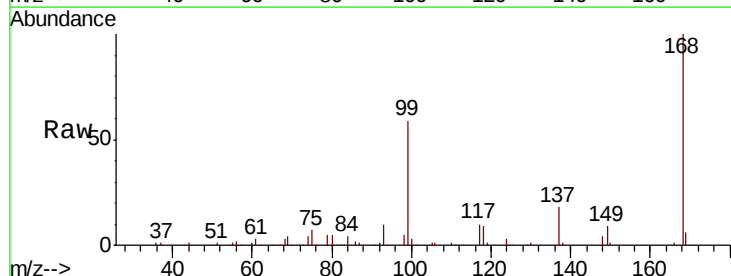


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

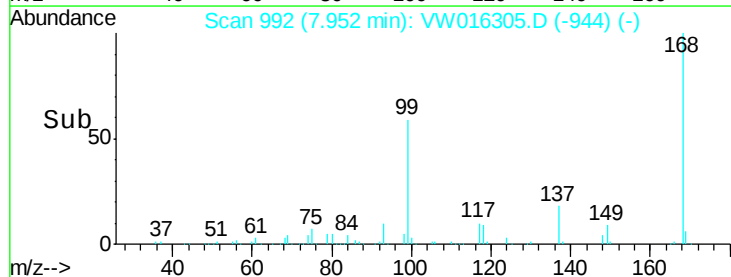
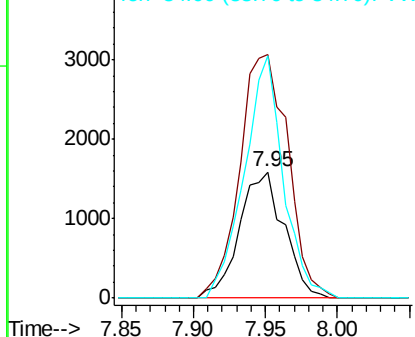


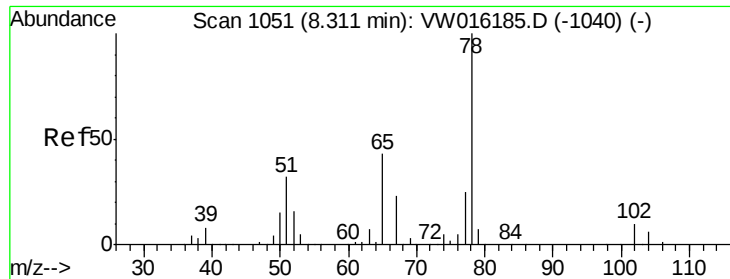
#31  
Cyclohexane  
Concen: 1.017 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW016305.D  
Acq: 21 Aug 2020 14:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3403   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 193.5 | 27.3  | 40.9#  |
| 84       | 192.2 | 73.5  | 110.3# |



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: 54.413 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW016305.D

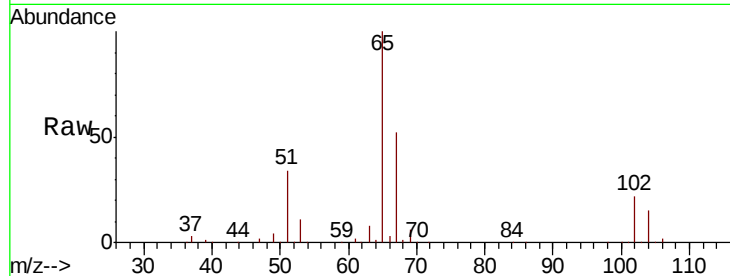
Acq: 21 Aug 2020 14:55

Tot Ion: 65 Resp: 99721

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

40000

30000

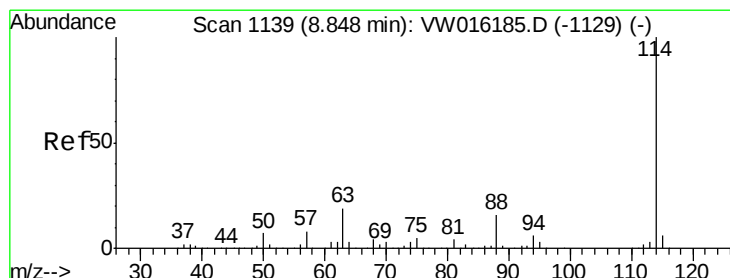
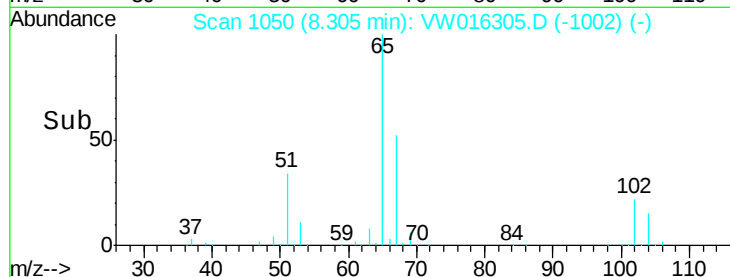
20000

10000

0

8.20 8.30 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VW016305.D

Acq: 21 Aug 2020 14:55

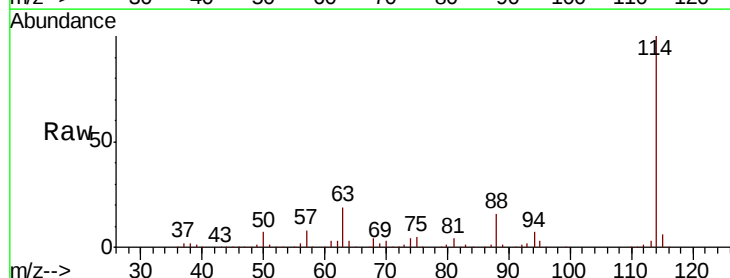
Tgt Ion: 114 Resp: 344457

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

88 15.7 0.0 32.8



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

8.84

200000

150000

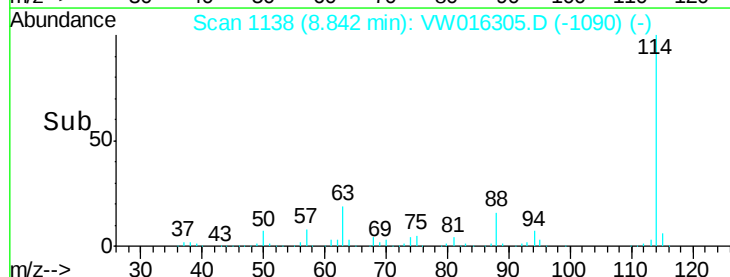
100000

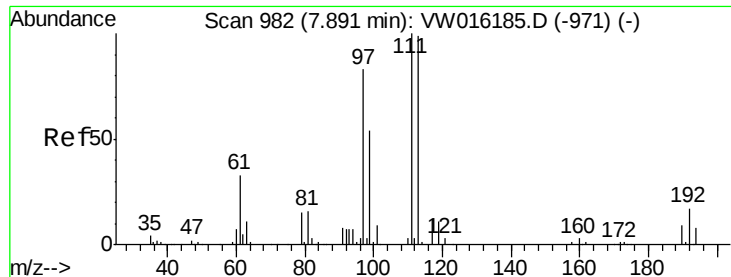
50000

0

8.80 8.90

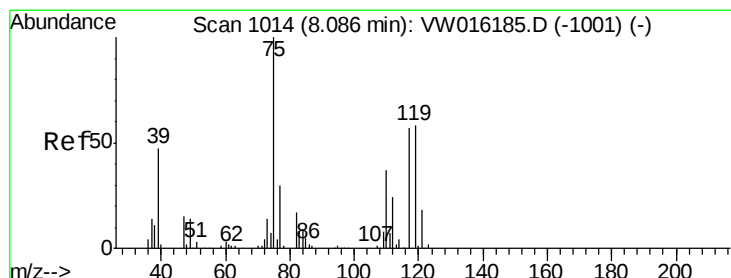
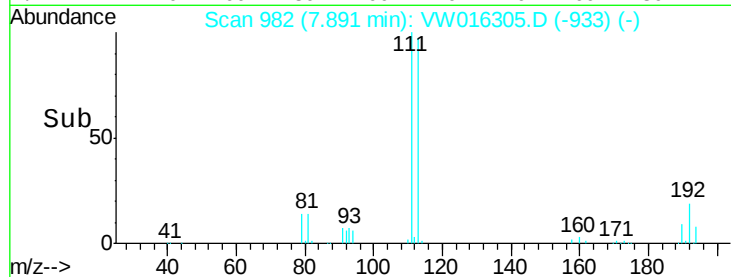
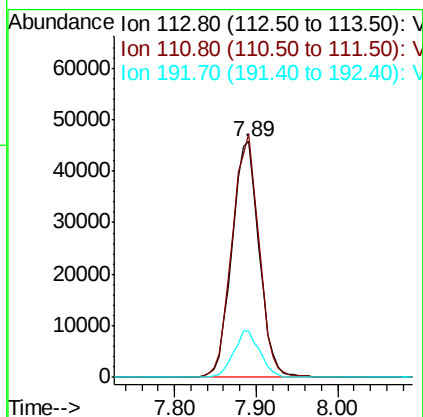
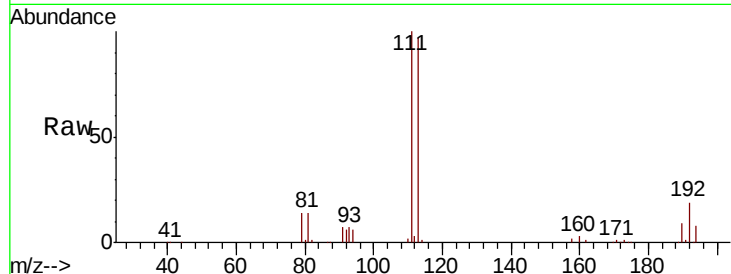
Time-->





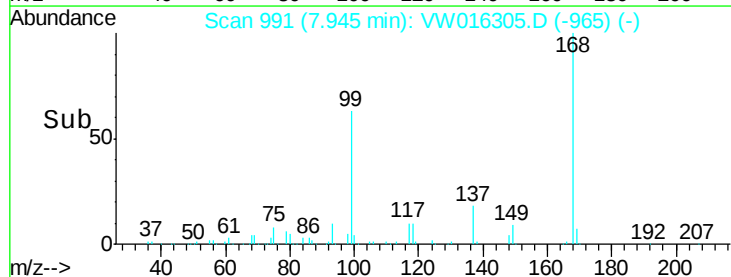
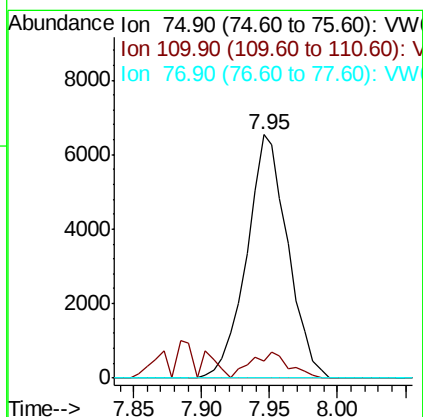
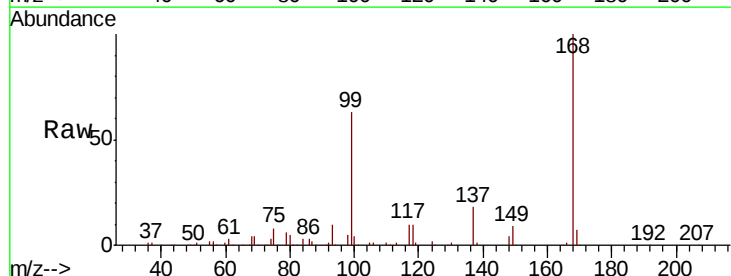
#35  
 Dibromofluoromethane  
 Concen: 49.371 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VW016305.D  
 Acq: 21 Aug 2020 14:55

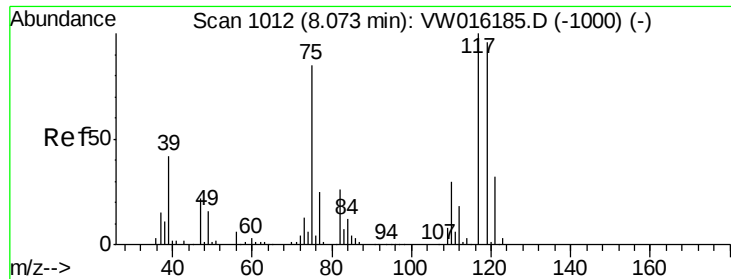
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 83.5  | 125.3 |
| 192     | 19.0  | 14.3  | 21.5  |



#36  
 1,1-Dichloropropene  
 Concen: 4.057 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW016305.D  
 Acq: 21 Aug 2020 14:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.7   | 18.1  | 54.3# |
| 77      | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 5.746 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW016305.D

Acq: 21 Aug 2020 14:55

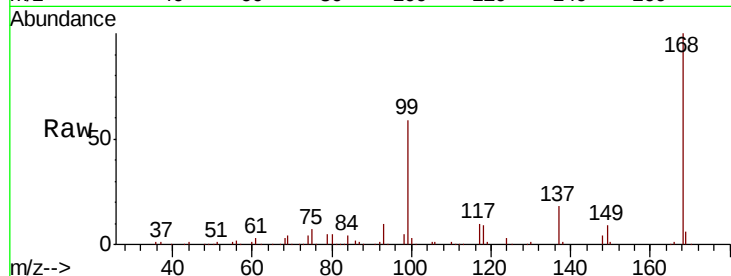
Tot Ion:117 Resp: 19459

Ion Ratio Lower Upper

117 100

119 5.2 76.6 115.0#

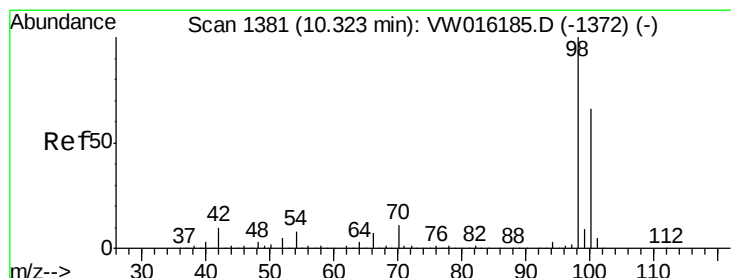
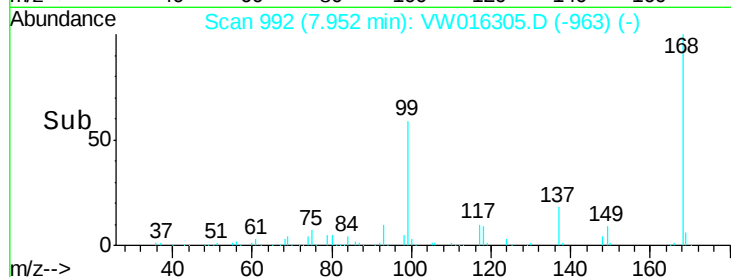
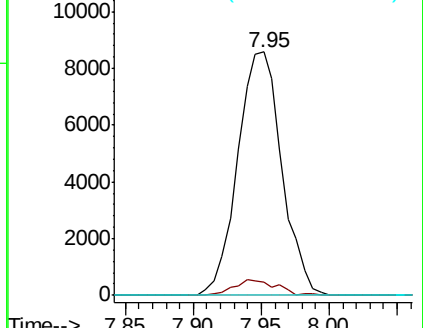
121 0.0 25.4 38.0#



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: 49.889 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW016305.D

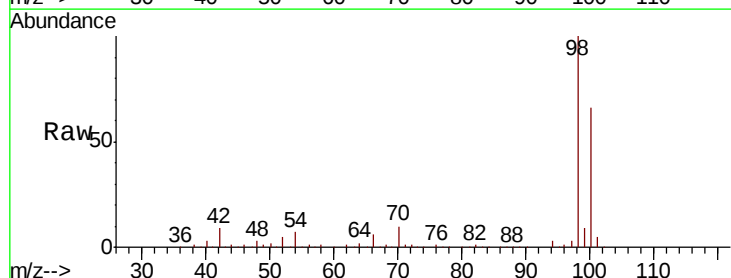
Acq: 21 Aug 2020 14:55

Tgt Ion: 98 Resp: 410424

Ion Ratio Lower Upper

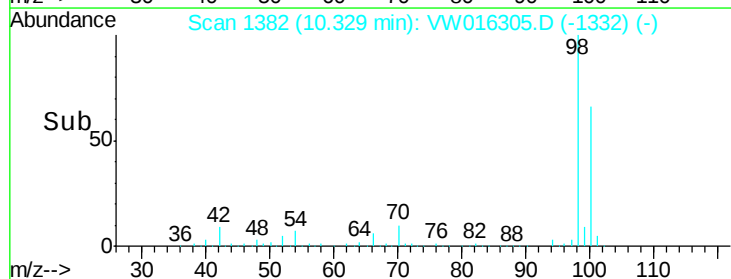
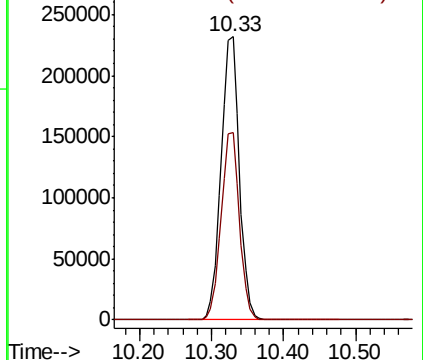
98 100

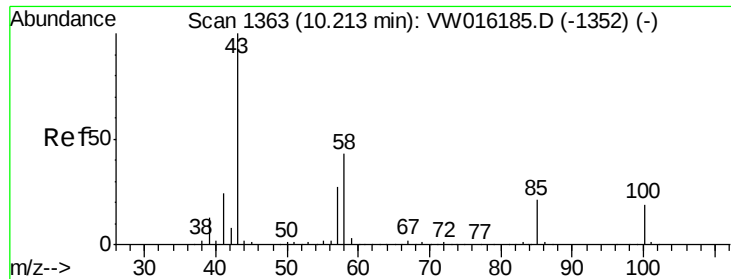
100 66.2 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VW

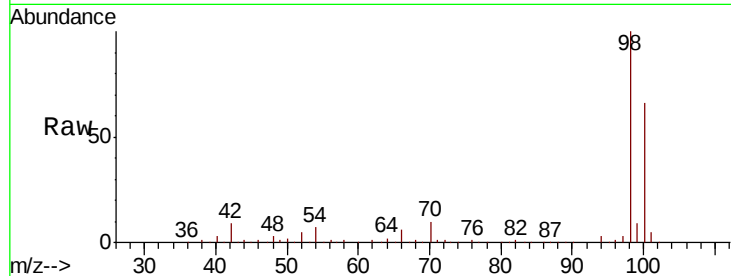
Ion 100.00 (99.70 to 100.70): VW



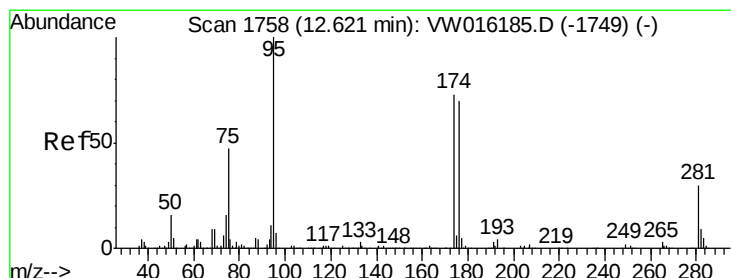
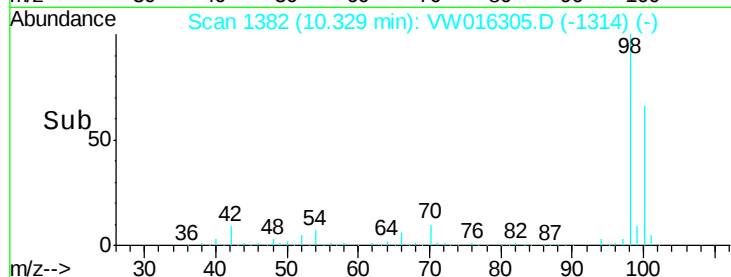
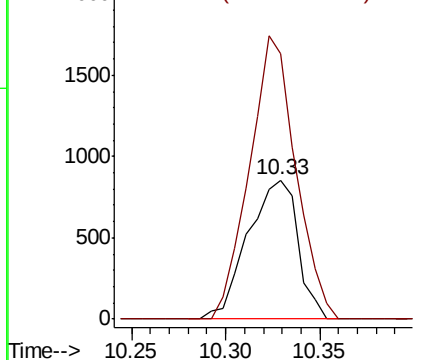


#51  
4-Methyl-2-Pentanone  
Concen: 1.422 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.12 min  
Lab File: VW016305.D  
Acq: 21 Aug 2020 14:55

Tot Ion: 43 Resp: 1574  
Ion Ratio Lower Upper  
43 100  
58 188.5 33.7 50.5#

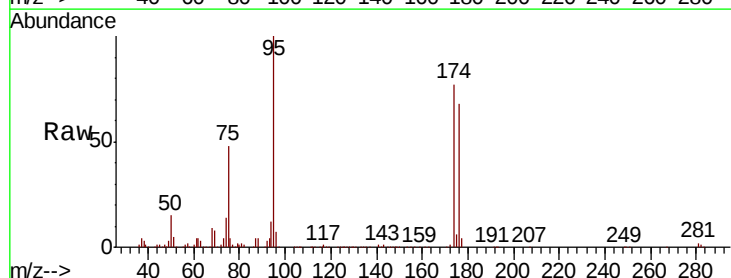


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

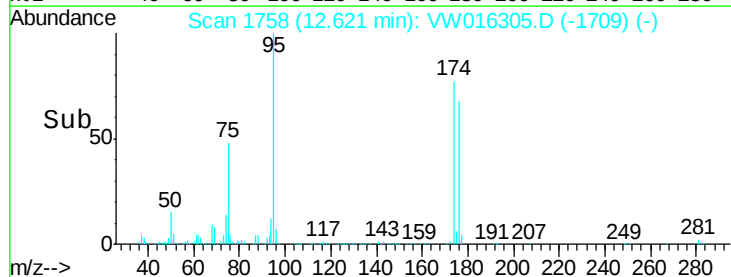
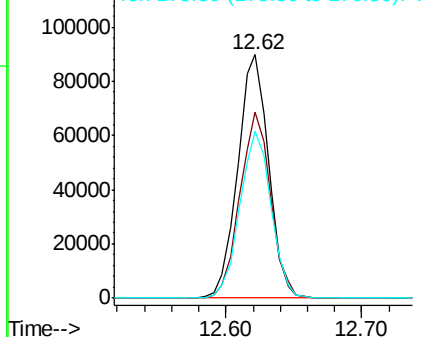


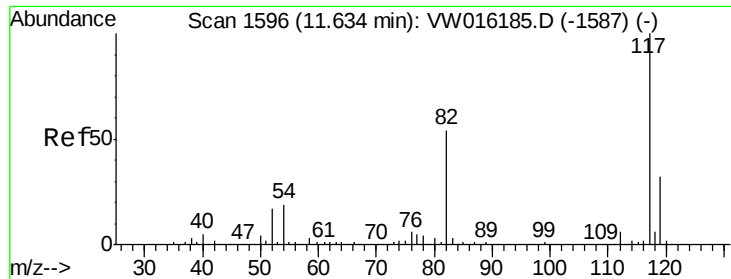
#62  
4-Bromofluorobenzene  
Concen: 48.235 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW016305.D  
Acq: 21 Aug 2020 14:55

Tgt Ion: 95 Resp: 141845  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 145.6  
176 69.5 0.0 137.8



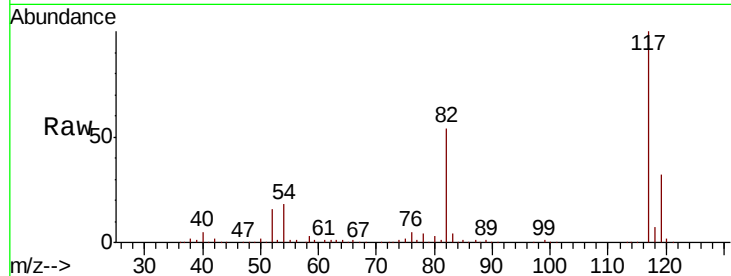
Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V



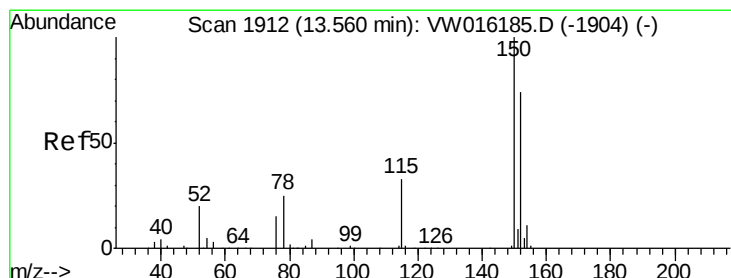
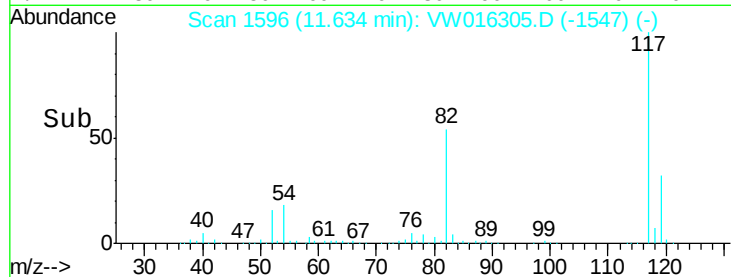
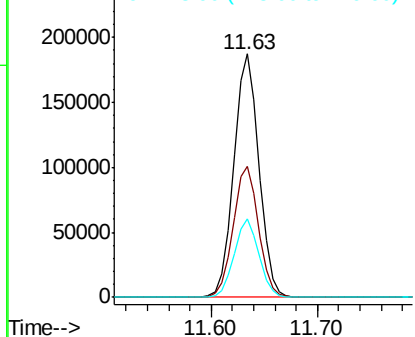


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW016305.D  
Acq: 21 Aug 2020 14:55

Tot Ion:117 Resp: 309618  
Ion Ratio Lower Upper  
117 100  
82 53.6 43.6 65.4  
119 32.4 25.4 38.0

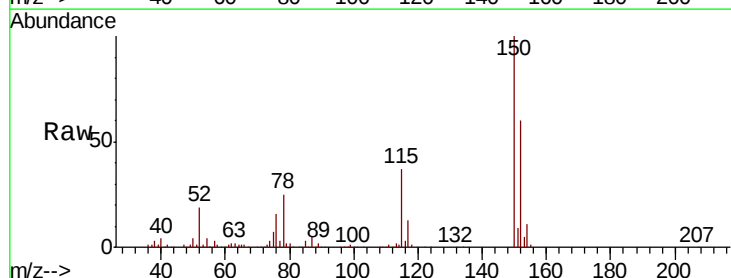


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

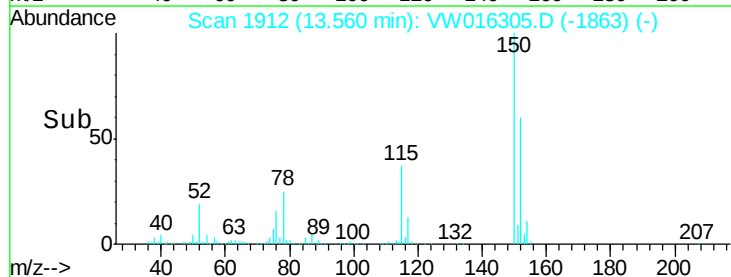
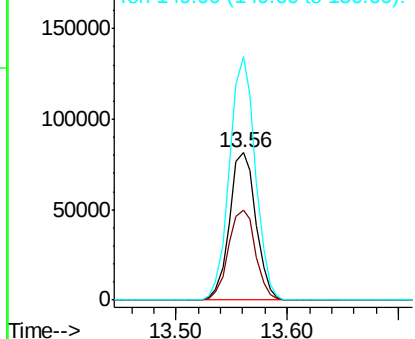


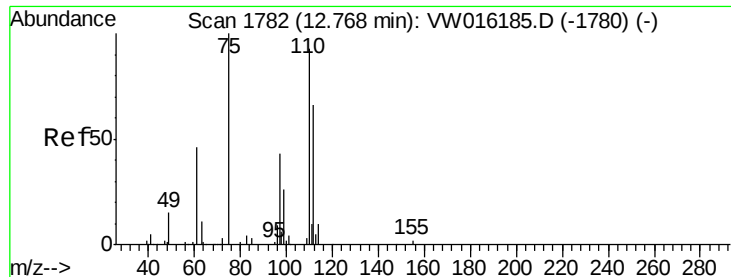
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW016305.D  
Acq: 21 Aug 2020 14:55

Tgt Ion:152 Resp: 133583  
Ion Ratio Lower Upper  
152 100  
115 62.6 30.9 92.5  
150 161.6 0.0 337.8



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: 55.465 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW016305.D

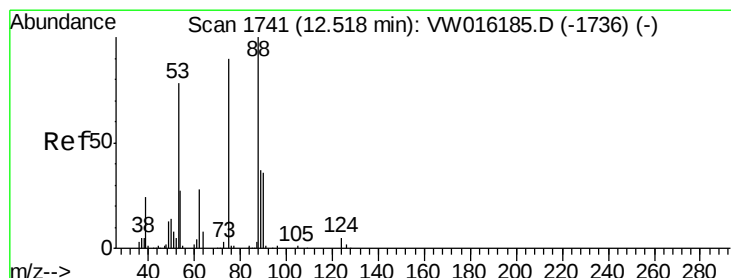
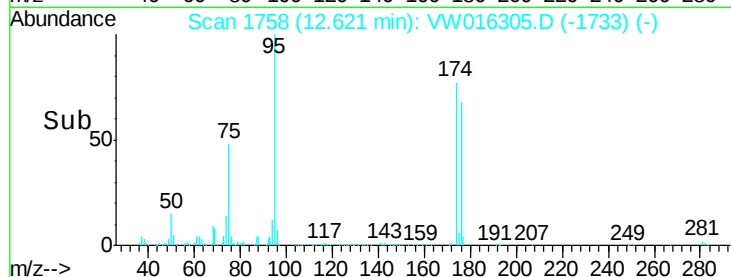
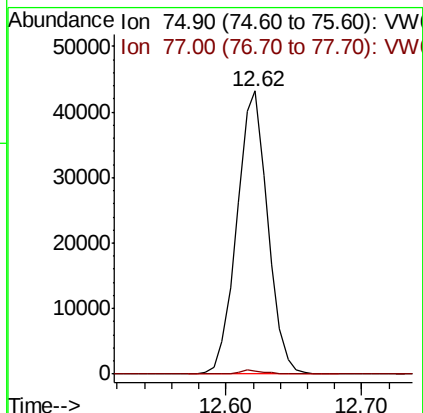
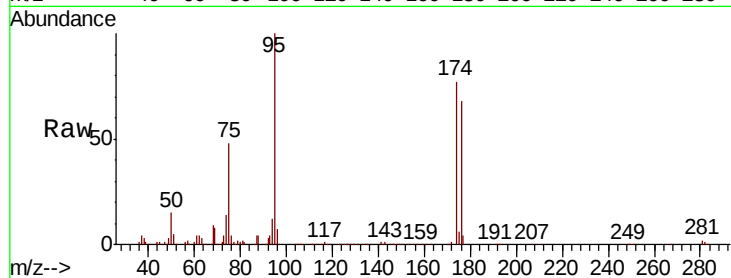
Acq: 21 Aug 2020 14:55

Tot Ion: 75 Resp: 68140

Ion Ratio Lower Upper

75 100

77 1.2 173.6 520.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 133.040 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW016305.D

Acq: 21 Aug 2020 14:55

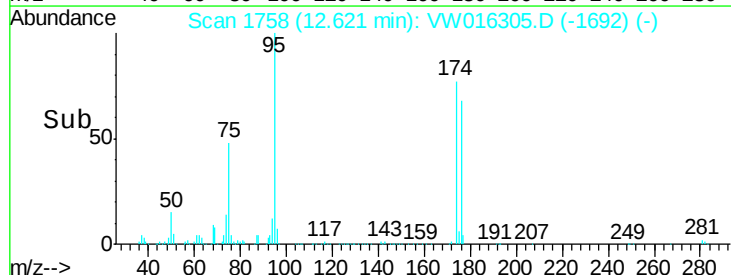
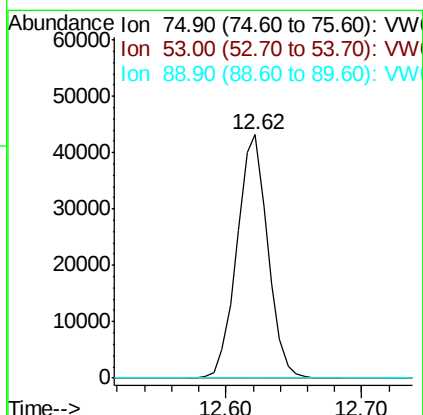
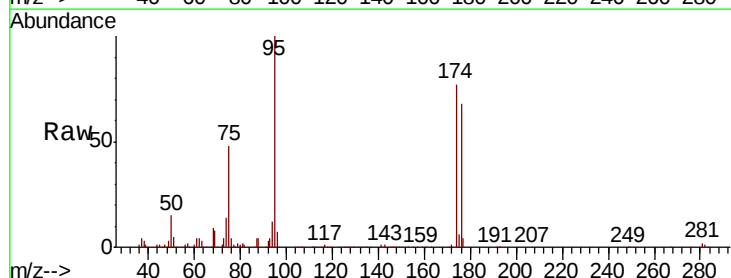
Tgt Ion: 75 Resp: 68140

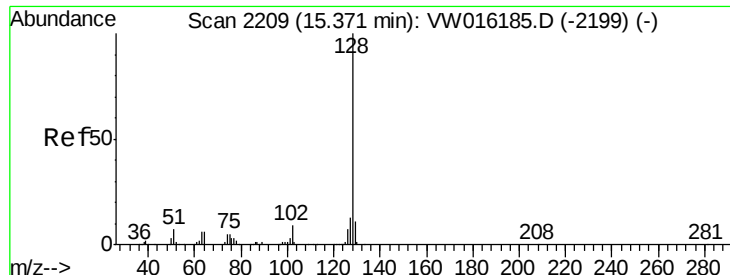
Ion Ratio Lower Upper

75 100

53 0.0 74.6 111.8#

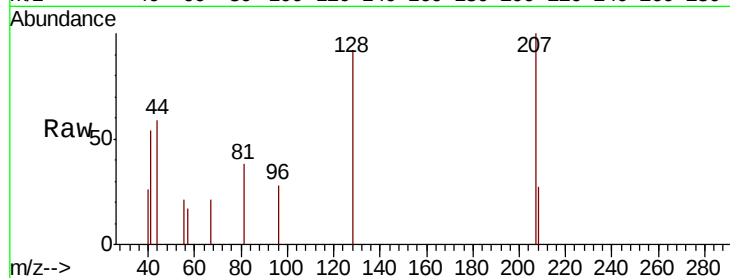
89 0.0 37.2 55.8#





#95  
 Naphthalene  
 Concen: 3.668 ug/l  
 RT: 15.36 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: VW016305.D  
 Acq: 21 Aug 2020 14:55

Tot Ion:128 Resp: 478  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.2 15.4#  
 129 0.0 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

