

Data File : VY001940.D  
Acq On : 11 Mar 2020 14:04  
Operator : SY/MD  
Sample : L1887-01  
Misc : 7.36G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CL-TP

Quant Time: Mar 12 01:56:00 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 135696   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 263306   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 236879   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 93113    | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 84407    | 58.27 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 116.54% |       |
| 35) Dibromofluoromethane  | 7.74   | 113 | 77976    | 54.23 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.46% |       |
| 50) Toluene-d8            | 10.19  | 98  | 318499   | 52.53 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.06% |       |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 100761   | 47.80 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.60%  |       |

#### Target Compounds

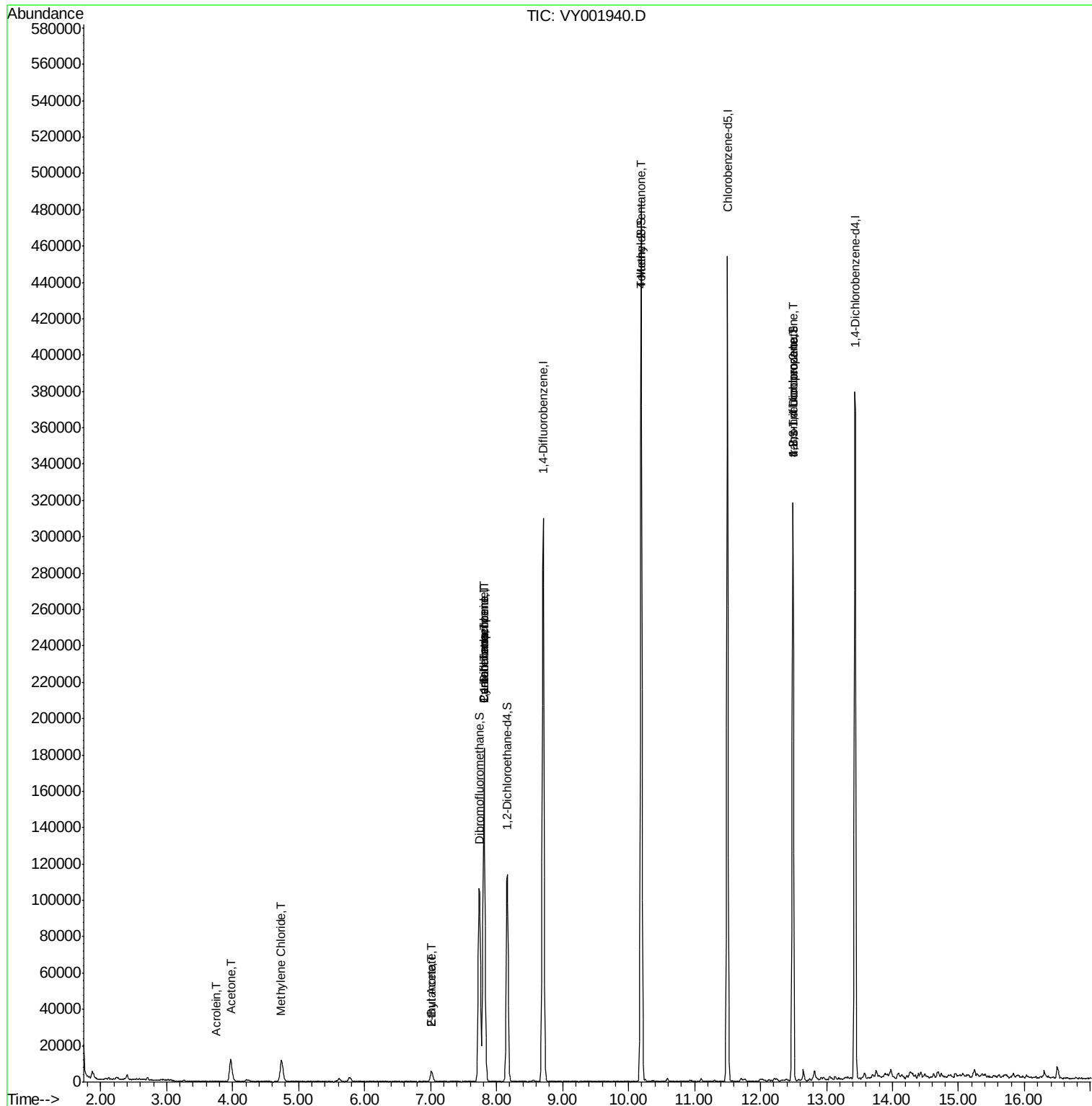
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.96  | 59  | 112   | Below Cal | #      | 74     |
| 13) Acrolein                   | 3.75  | 56  | 364   | 1.788     | ug/l # | 74     |
| 16) Acetone                    | 3.97  | 43  | 22192 | 52.596    | ug/l   | 94     |
| 20) Methylene Chloride         | 4.74  | 84  | 8922  | 4.934     | ug/l   | 96     |
| 25) 2-Butanone                 | 7.01  | 43  | 9604  | 14.968    | ug/l   | 96     |
| 31) Cyclohexane                | 7.81  | 56  | 3218  | 1.011     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.81  | 75  | 11547 | 4.557     | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.01  | 43  | 9604  | 6.522     | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.81  | 117 | 13993 | 6.465     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.19 | 43  | 1608  | 1.120     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 51541 | 46.650    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 51541 | 94.230    | ug/l # | 17     |

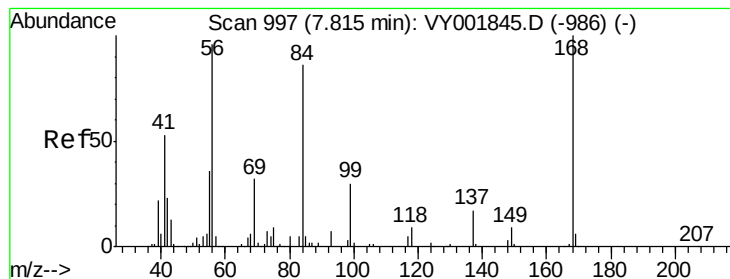
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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CL-TP

Quant Time: Mar 12 01:56:00 2020  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

Instrument :

MSVOA\_Y

ClientSampleId :

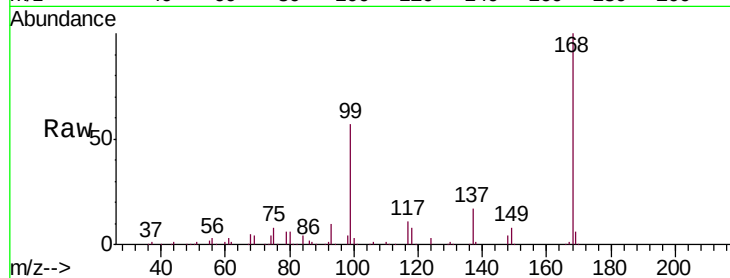
CL-TP

Tgt Ion: 168 Resp: 135696

Ion Ratio Lower Upper

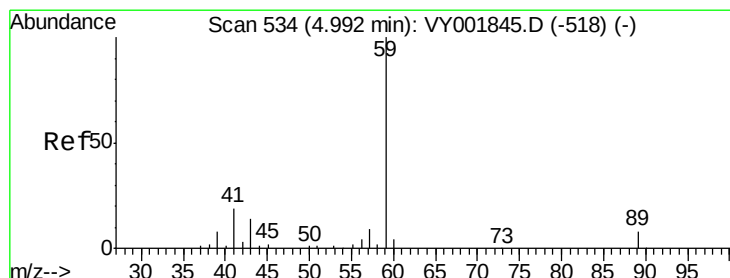
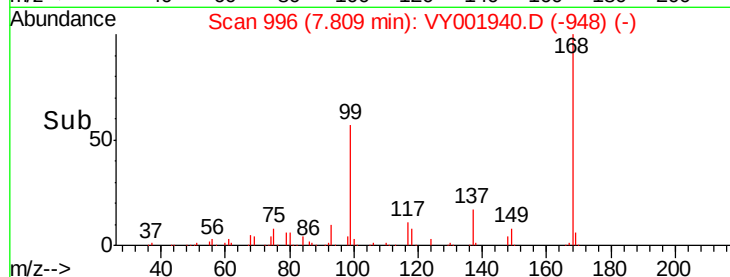
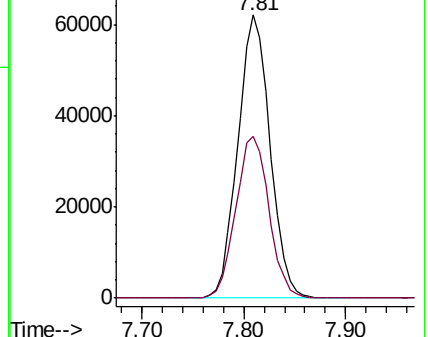
168 100

99 57.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.96 min Scan# 529

Delta R.T. -0.03 min

Lab File: VY001940.D

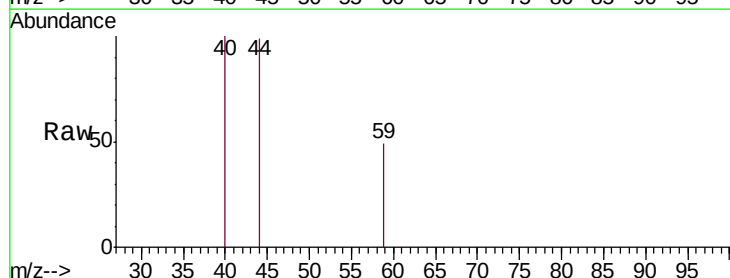
Acq: 11 Mar 2020 14:04

Tgt Ion: 59 Resp: 112

Ion Ratio Lower Upper

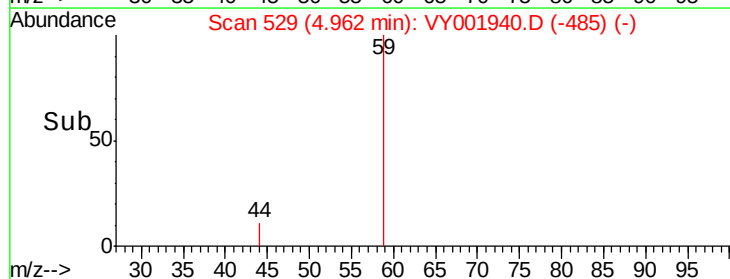
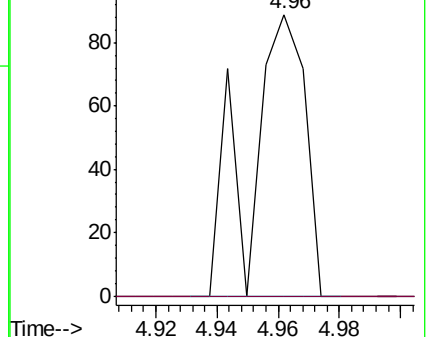
59 100

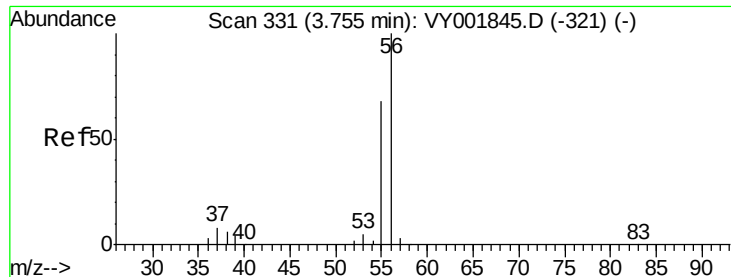
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001845.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VY001845.D (-518) (-)





#13

Acrolein

Concen: 1.788 ug/l

RT: 3.75 min Scan# 330

Delta R.T. -0.01 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

Instrument :

MSVOA\_Y

ClientSampled :

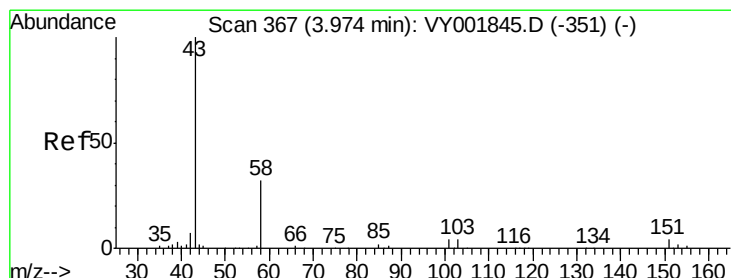
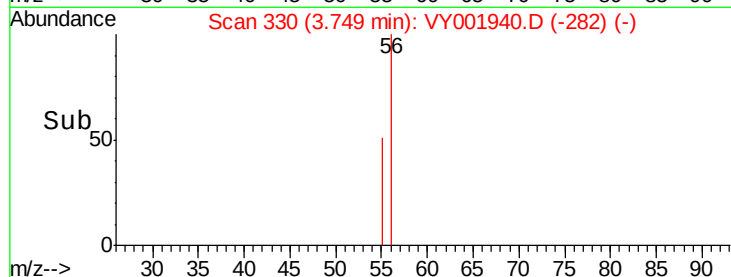
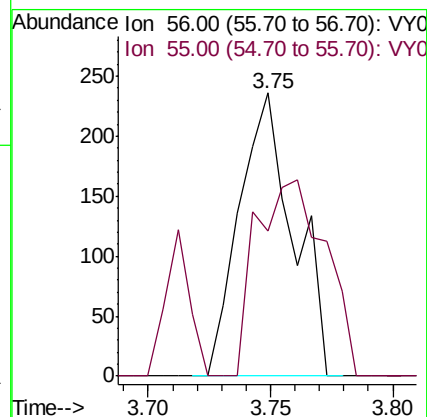
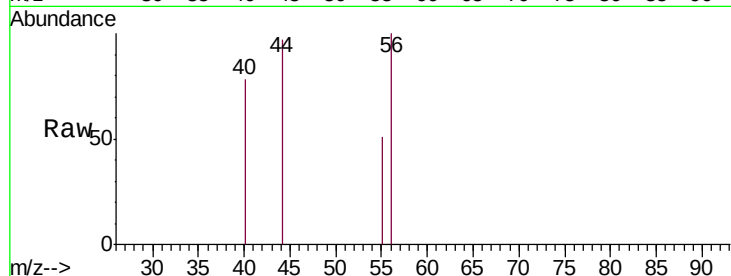
CL-TP

Tgt Ion: 56 Resp: 364

Ion Ratio Lower Upper

56 100

55 88.2 54.0 81.0#



#16

Acetone

Concen: 52.596 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.01 min

Lab File: VY001940.D

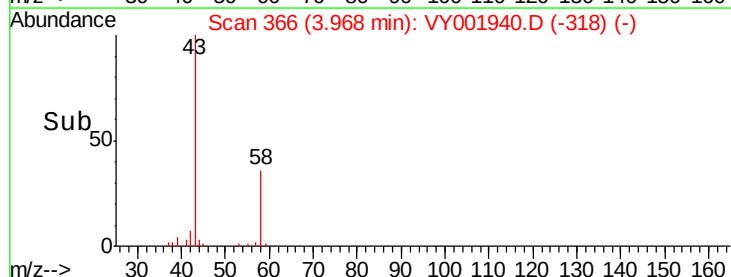
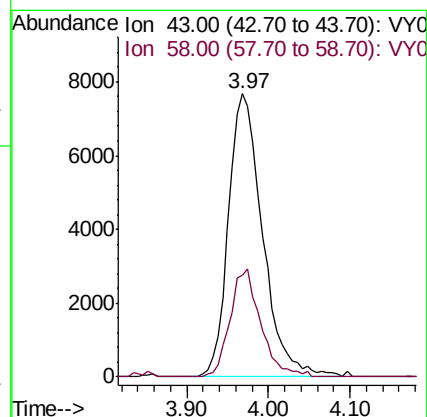
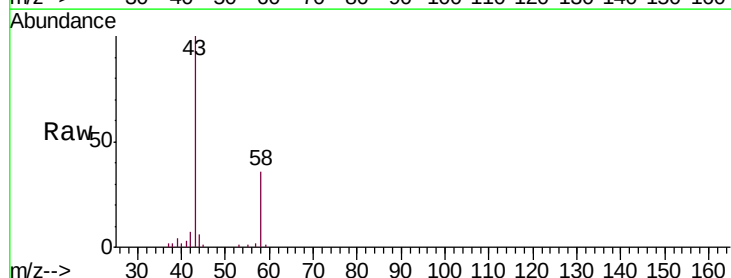
Acq: 11 Mar 2020 14:04

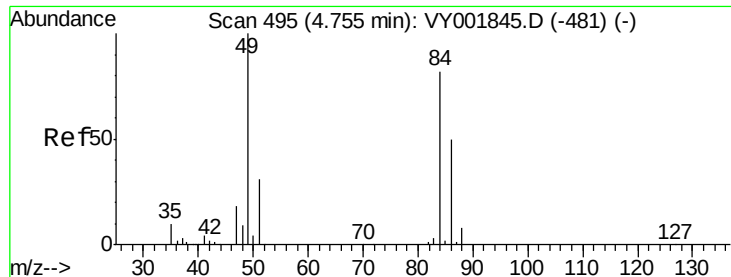
Tgt Ion: 43 Resp: 22192

Ion Ratio Lower Upper

43 100

58 35.7 25.9 38.9

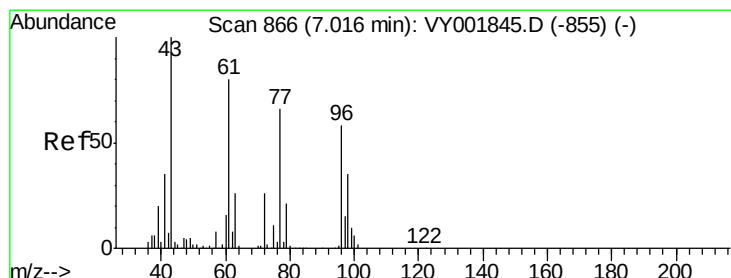
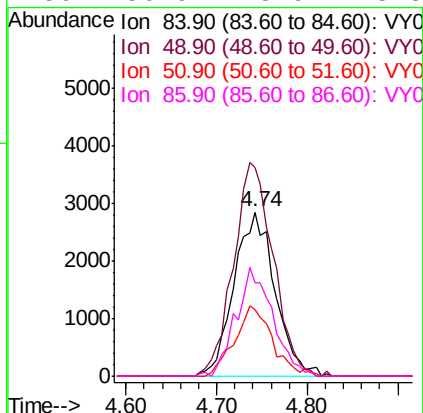
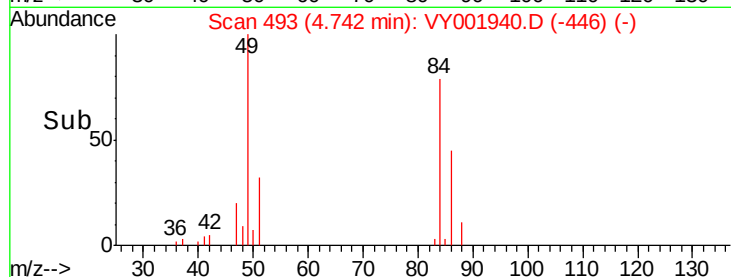
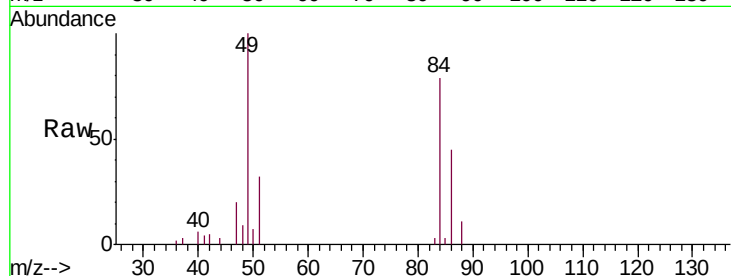




#20  
Methylene Chloride  
Concen: 4.934 ug/l  
RT: 4.74 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VY001940.D  
Acq: 11 Mar 2020 14:04

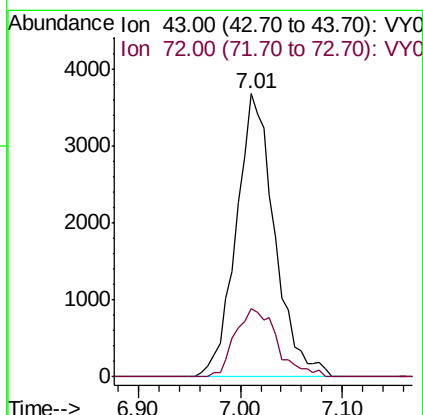
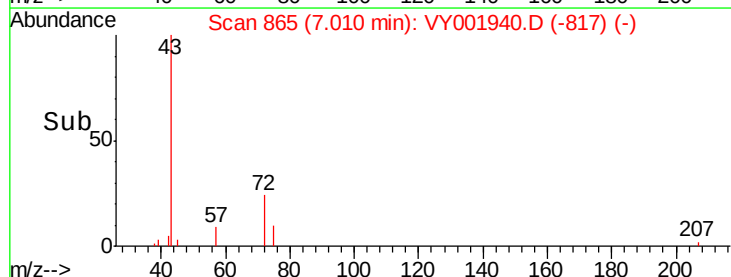
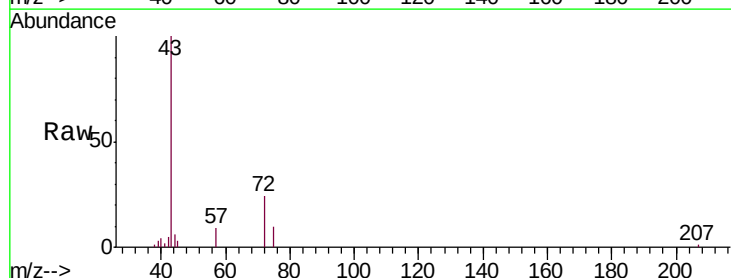
Instrument :  
MSVOA\_Y  
ClientSampled :  
CL-TP

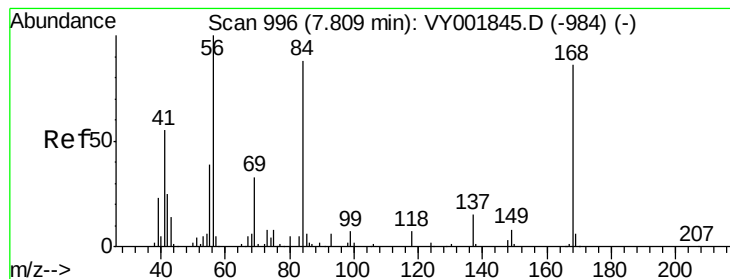
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 8922  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.9 | 98.2  | 147.2 |
| 51       | 40.9  | 30.2  | 45.2  |
| 86       | 56.9  | 48.9  | 73.3  |



#25  
2-Butanone  
Concen: 14.968 ug/l  
RT: 7.01 min Scan# 865  
Delta R.T. -0.01 min  
Lab File: VY001940.D  
Acq: 11 Mar 2020 14:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9604  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 23.9  | 20.9  | 31.3  |





#31

Cyclohexane

Concen: 1.011 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.00 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

Instrument :

MSVOA\_Y

ClientSampleId :

CL-TP

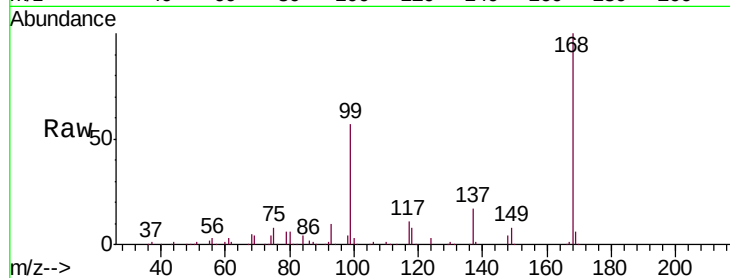
Tgt Ion: 56 Resp: 3218

Ion Ratio Lower Upper

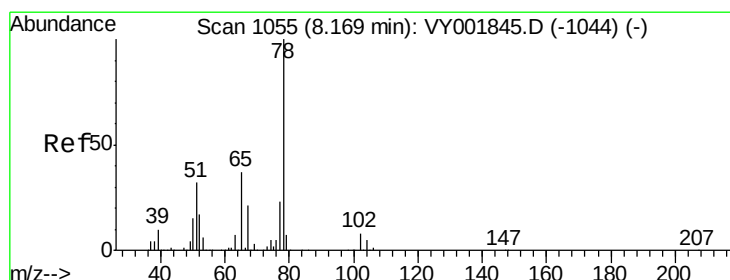
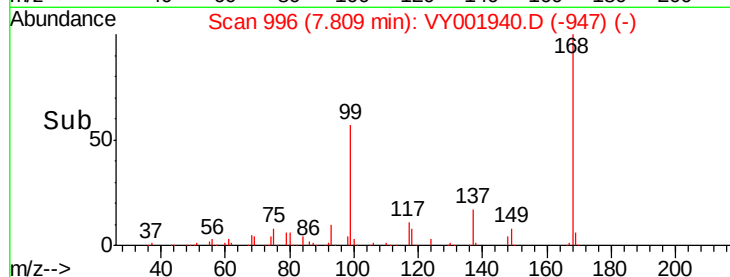
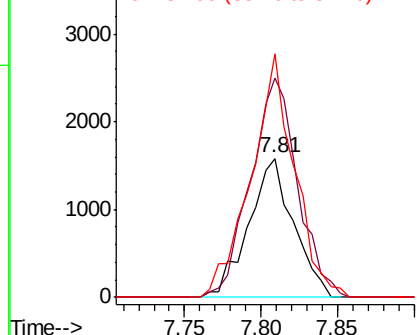
56 100

69 158.1 26.7 40.1#

84 175.6 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 58.266 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001940.D

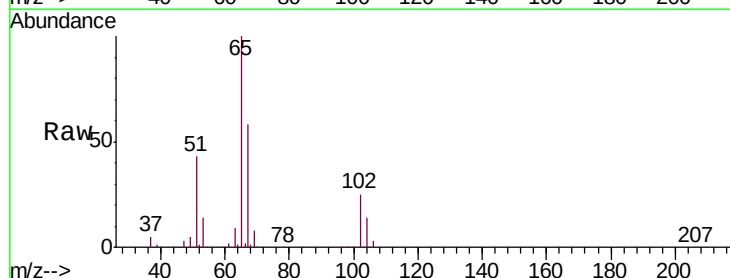
Acq: 11 Mar 2020 14:04

Tgt Ion: 65 Resp: 84407

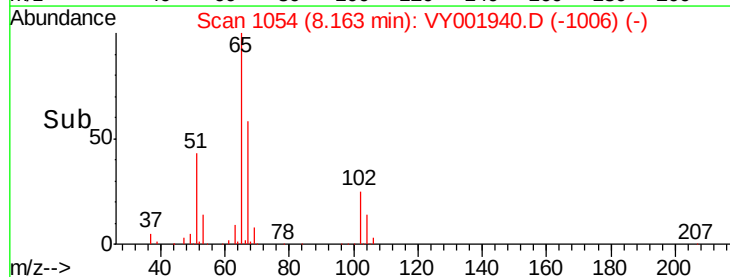
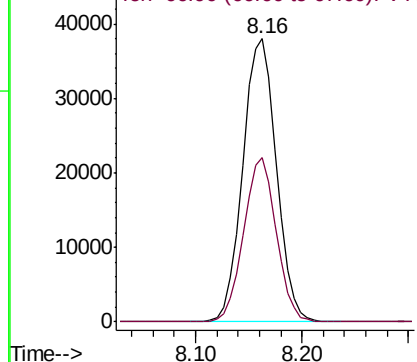
Ion Ratio Lower Upper

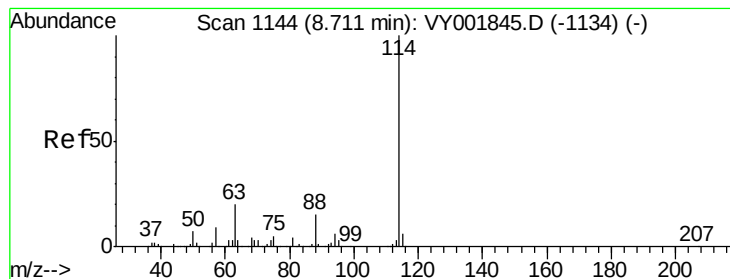
65 100

67 56.2 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

Instrument :

MSVOA\_Y

ClientSampleId :

CL-TP

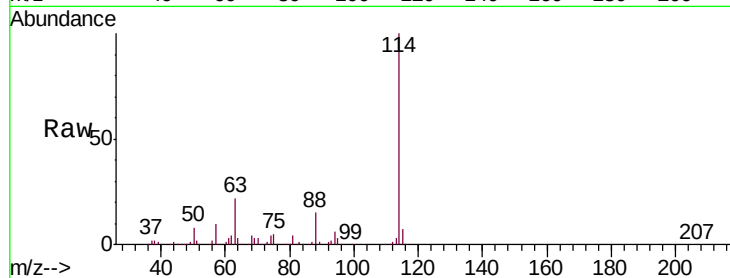
Tgt Ion:114 Resp: 263306

Ion Ratio Lower Upper

114 100

63 21.6 0.0 39.4

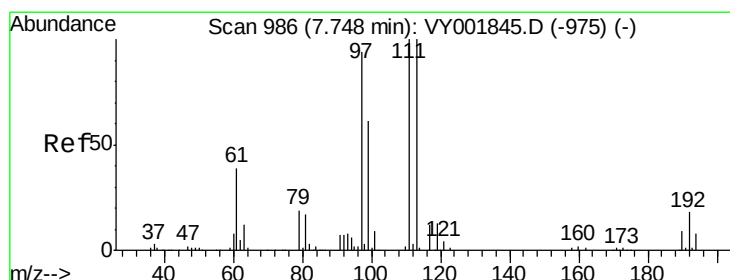
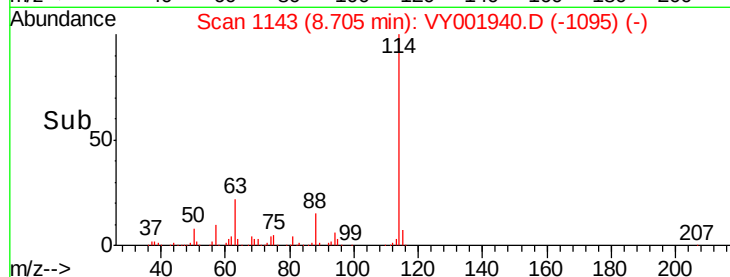
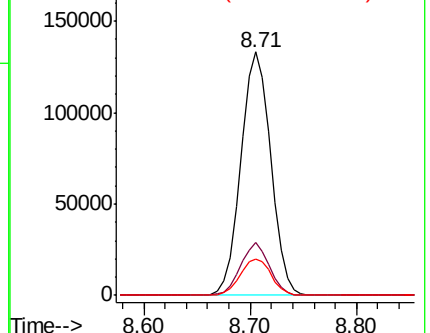
88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 54.234 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.01 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

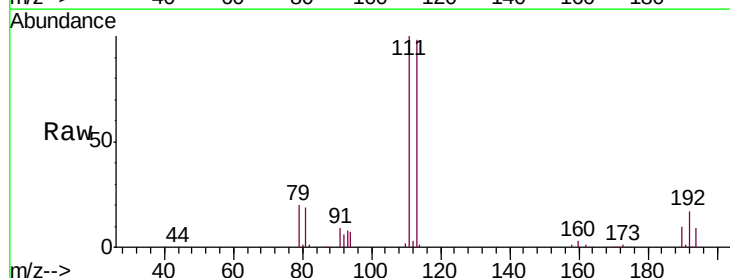
Tgt Ion:113 Resp: 77976

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

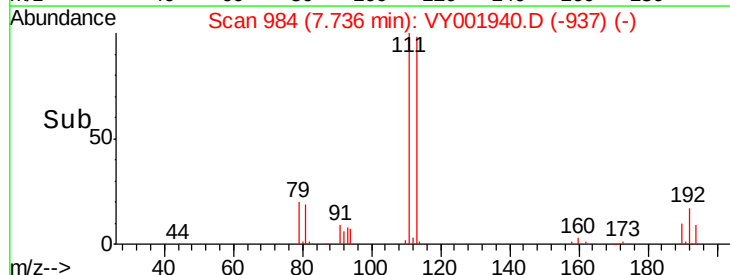
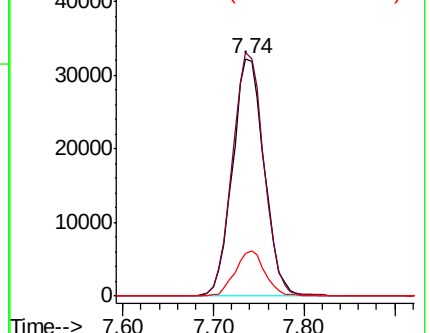
192 17.9 14.2 21.2

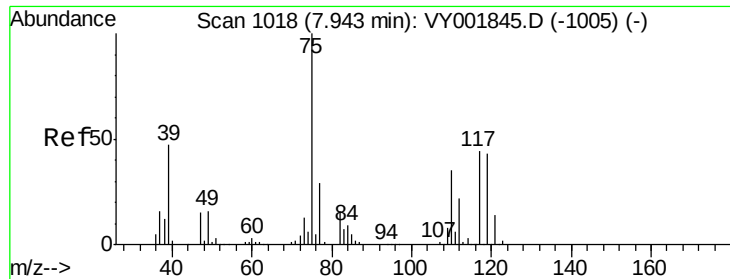


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

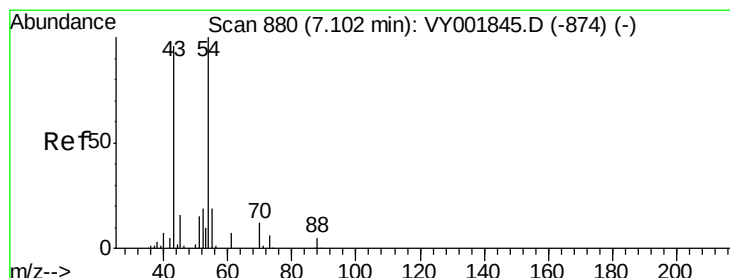
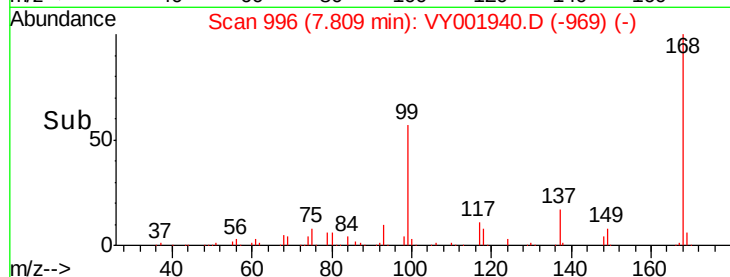
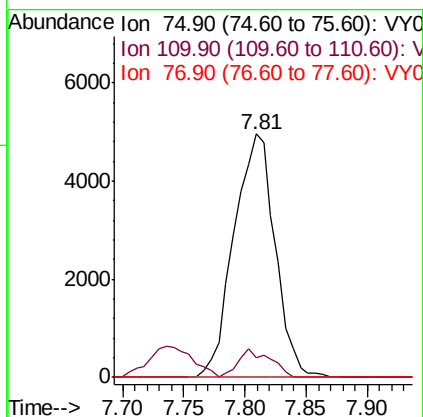
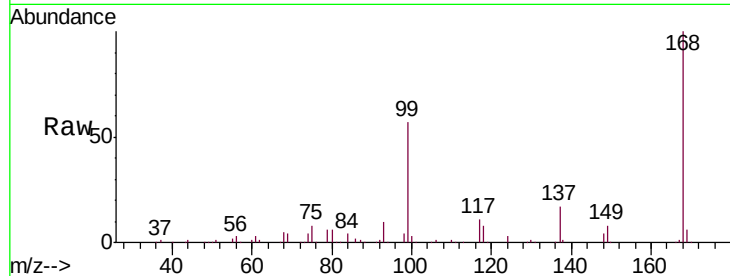




#36  
 1,1-Dichloropropene  
 Concen: 4.557 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.13 min  
 Lab File: VY001940.D  
 Acq: 11 Mar 2020 14:04

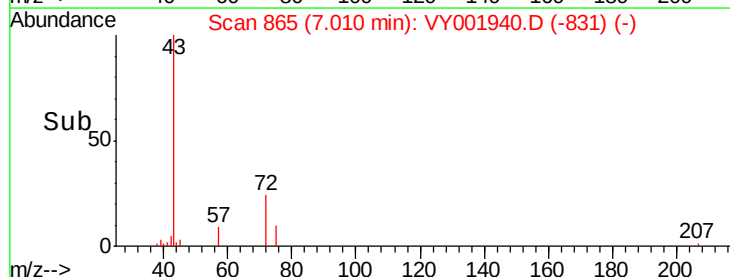
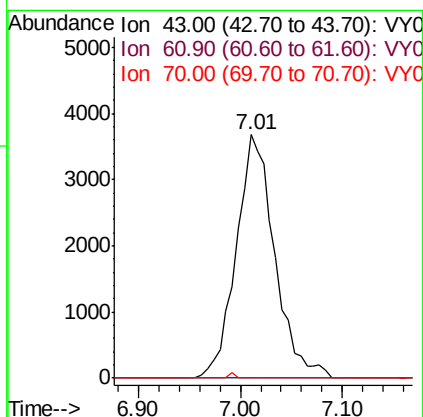
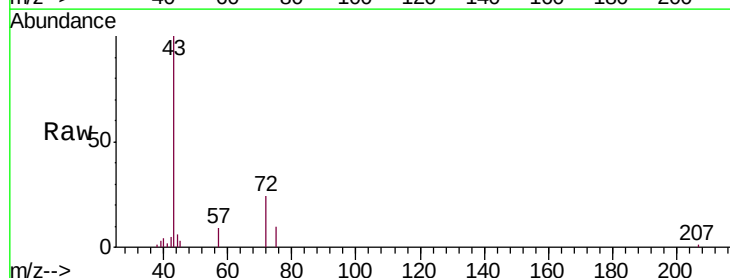
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 CL-TP

Tgt Ion: 75 Resp: 11547  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 17.4 52.2#  
 77 0.0 24.2 36.2#

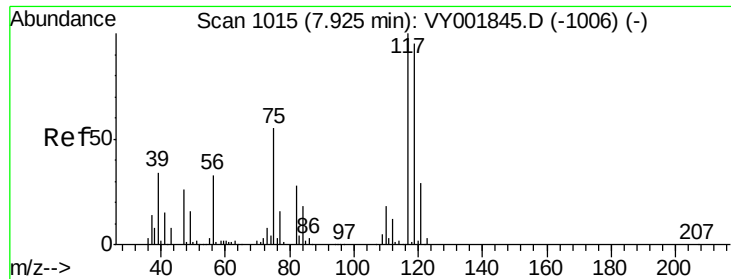


#37  
 Ethyl Acetate  
 Concen: 6.522 ug/l  
 RT: 7.01 min Scan# 865  
 Delta R.T. -0.09 min  
 Lab File: VY001940.D  
 Acq: 11 Mar 2020 14:04

Tgt Ion: 43 Resp: 9604  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.1 16.7#  
 70 0.3 8.2 12.4#



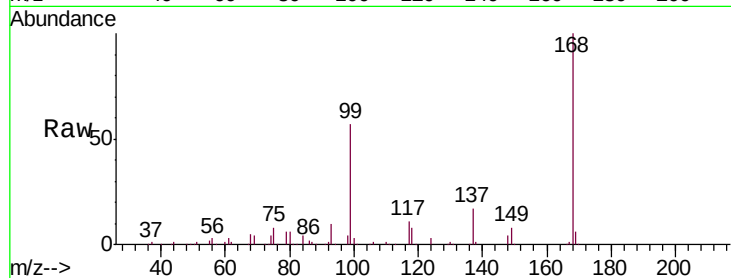




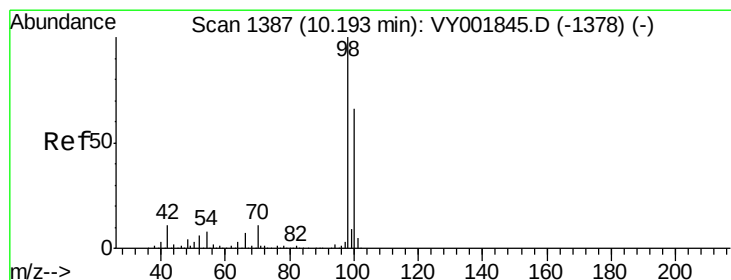
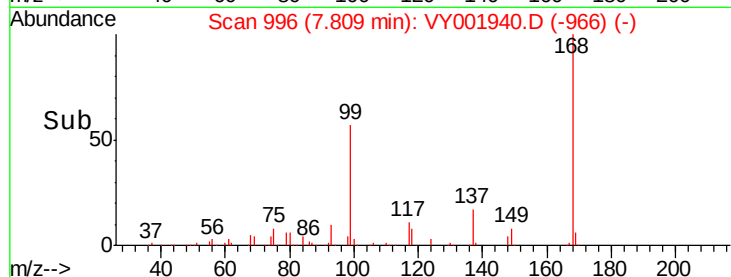
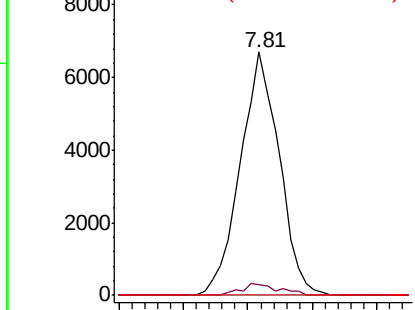
#38  
Carbon Tetrachloride  
Concen: 6.465 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.12 min  
Lab File: VY001940.D  
Acq: 11 Mar 2020 14:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CL-TP

Tgt Ion:117 Resp: 13993  
Ion Ratio Lower Upper  
117 100  
119 4.5 76.3 114.5#  
121 0.0 23.5 35.3#

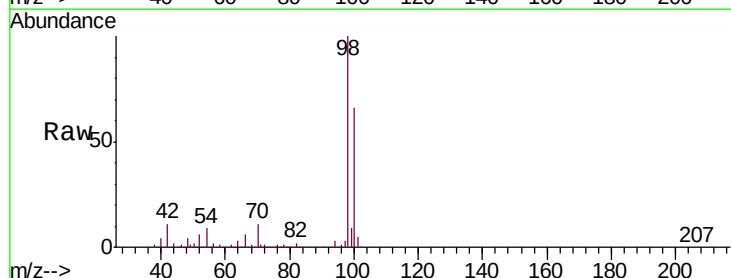


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

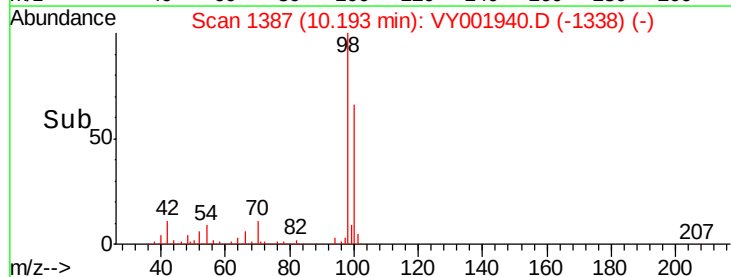
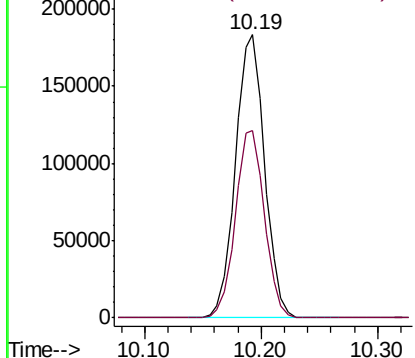


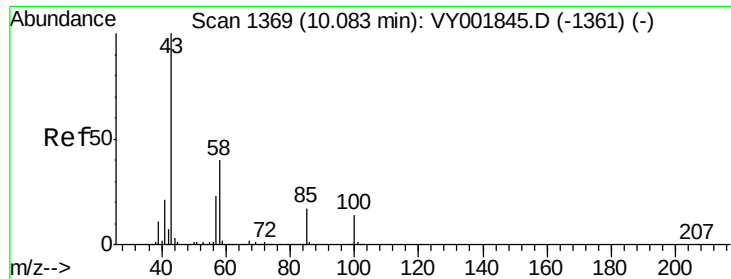
#50  
Toluene-d8  
Concen: 52.533 ug/l  
RT: 10.19 min Scan# 1387  
Delta R.T. -0.00 min  
Lab File: VY001940.D  
Acq: 11 Mar 2020 14:04

Tgt Ion: 98 Resp: 318499  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY

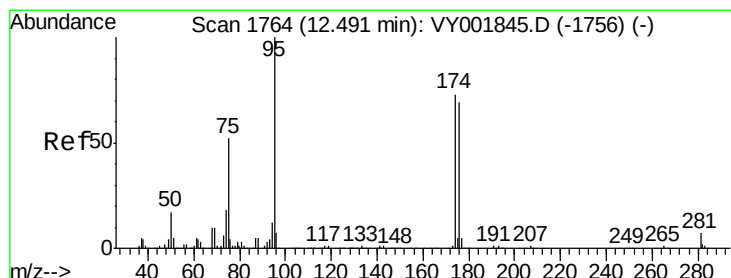
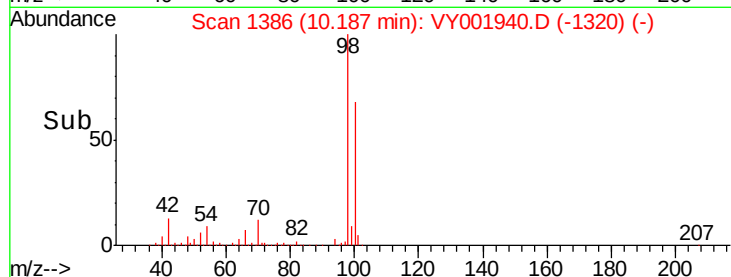
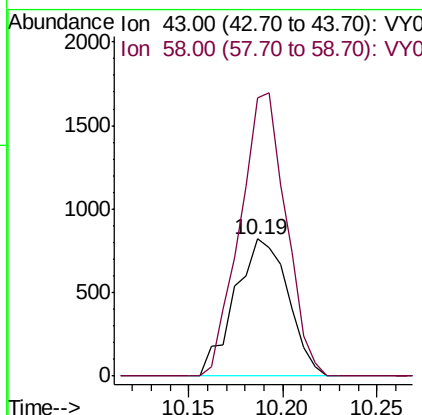
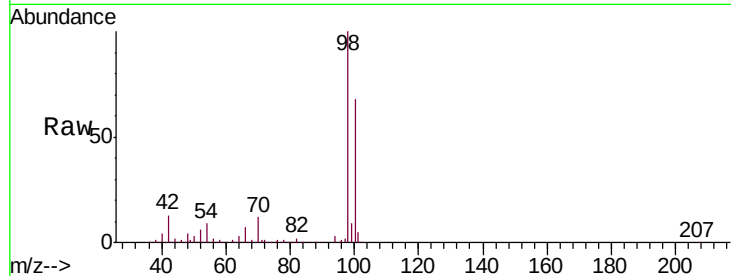




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.120 ug/l  
 RT: 10.19 min Scan# 1386  
 Delta R.T. 0.10 min  
 Lab File: VY001940.D  
 Acq: 11 Mar 2020 14:04

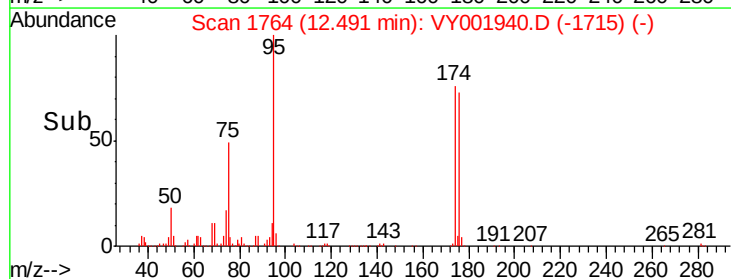
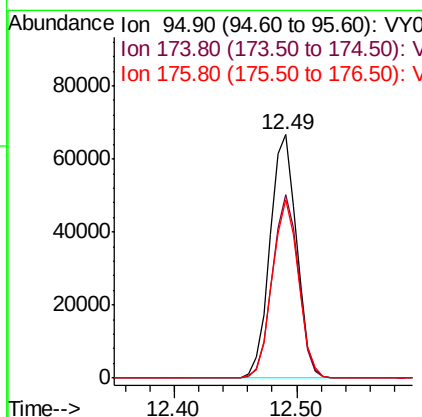
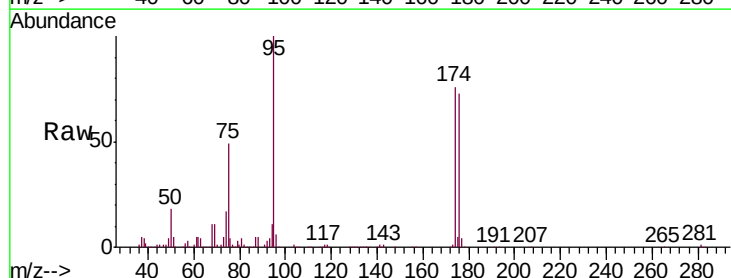
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CL-TP

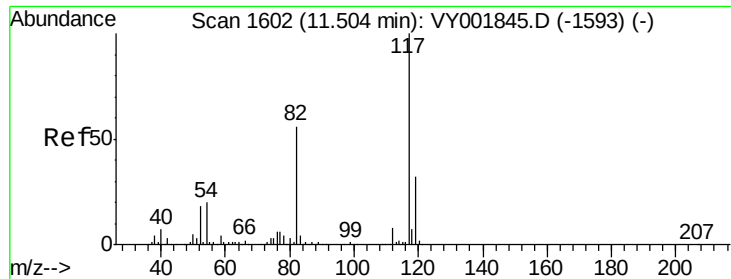
Tgt Ion: 43 Resp: 1608  
 Ion Ratio Lower Upper  
 43 100  
 58 178.8 32.0 48.0#



#62  
 4-Bromofluorobenzene  
 Concen: 47.797 ug/l  
 RT: 12.49 min Scan# 1764  
 Delta R.T. -0.00 min  
 Lab File: VY001940.D  
 Acq: 11 Mar 2020 14:04

Tgt Ion: 95 Resp: 100761  
 Ion Ratio Lower Upper  
 95 100  
 174 73.8 0.0 145.0  
 176 72.0 0.0 137.4

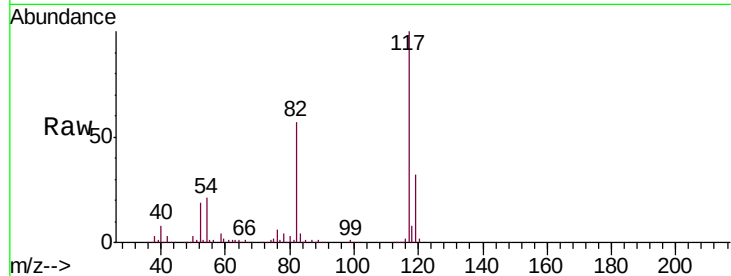




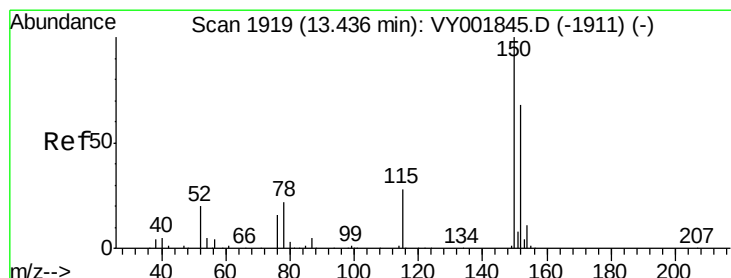
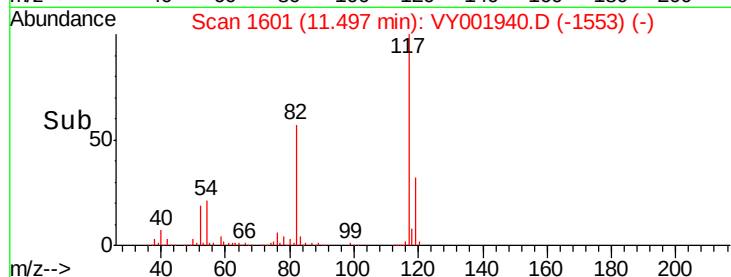
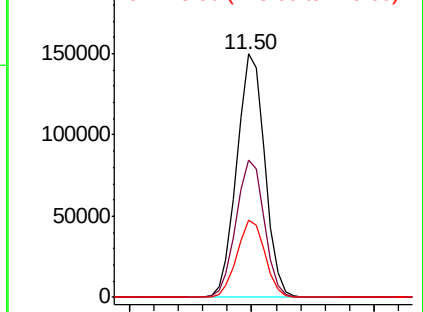
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY001940.D  
Acq: 11 Mar 2020 14:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CL-TP

Tgt Ion:117 Resp: 236879  
Ion Ratio Lower Upper  
117 100  
82 56.7 44.5 66.7  
119 31.9 25.7 38.5

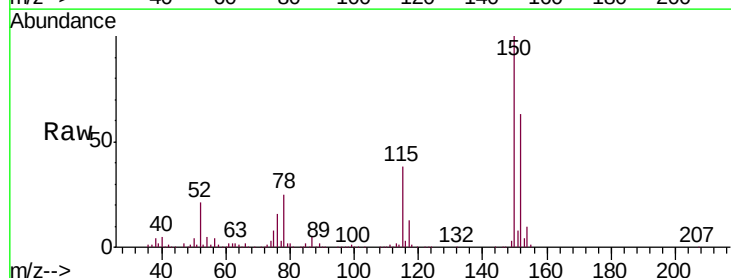


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

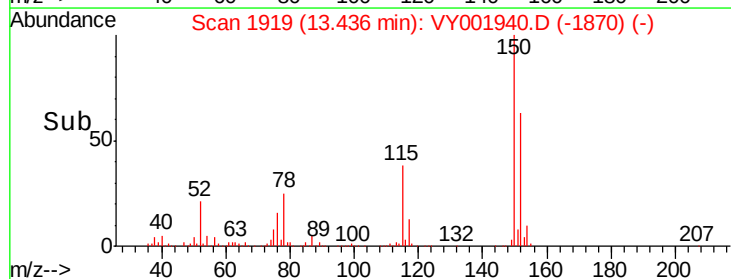
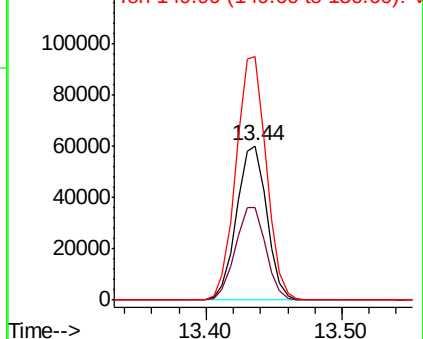


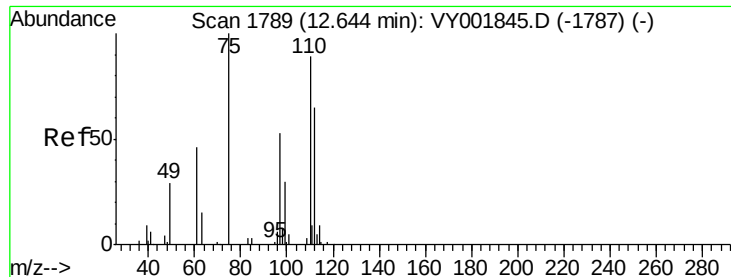
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. -0.00 min  
Lab File: VY001940.D  
Acq: 11 Mar 2020 14:04

Tgt Ion:152 Resp: 93113  
Ion Ratio Lower Upper  
152 100  
115 60.7 29.9 89.7  
150 158.5 0.0 340.6



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: 46.650 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

Instrument :

MSVOA\_Y

ClientSampleId :

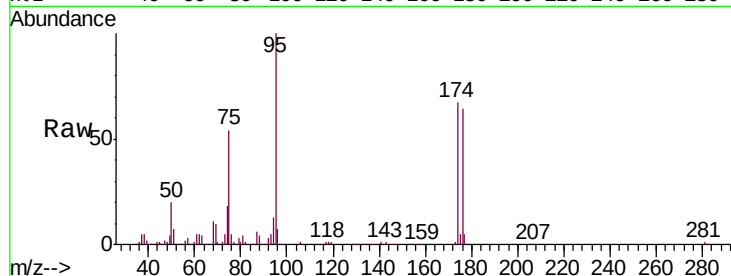
CL-TP

Tgt Ion: 75 Resp: 51541

Ion Ratio Lower Upper

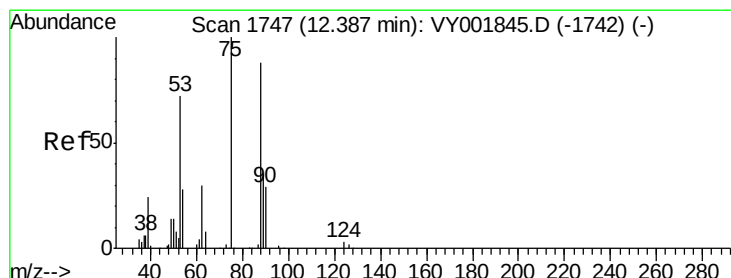
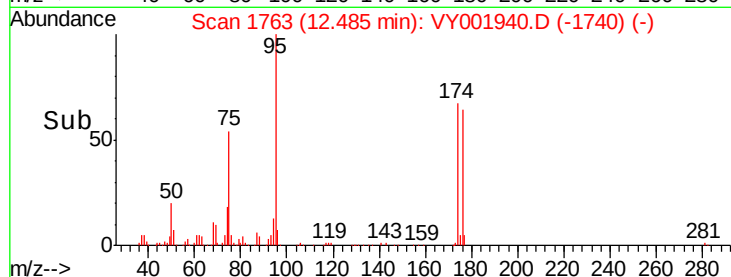
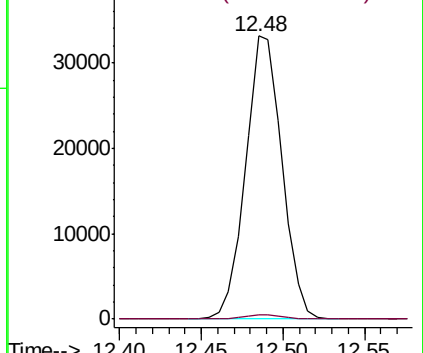
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 94.230 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001940.D

Acq: 11 Mar 2020 14:04

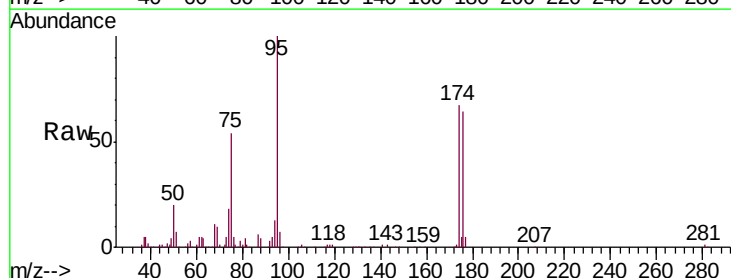
Tgt Ion: 75 Resp: 51541

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.1 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

