

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY042120\  
 Data File : VY002434.D  
 Acq On : 21 Apr 2020 15:41  
 Operator : SY/MD  
 Sample : L2284-13RE  
 Misc : 6.97G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 21 16:08:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 20 15:14:11 2020  
 Response via : Initial Calibration

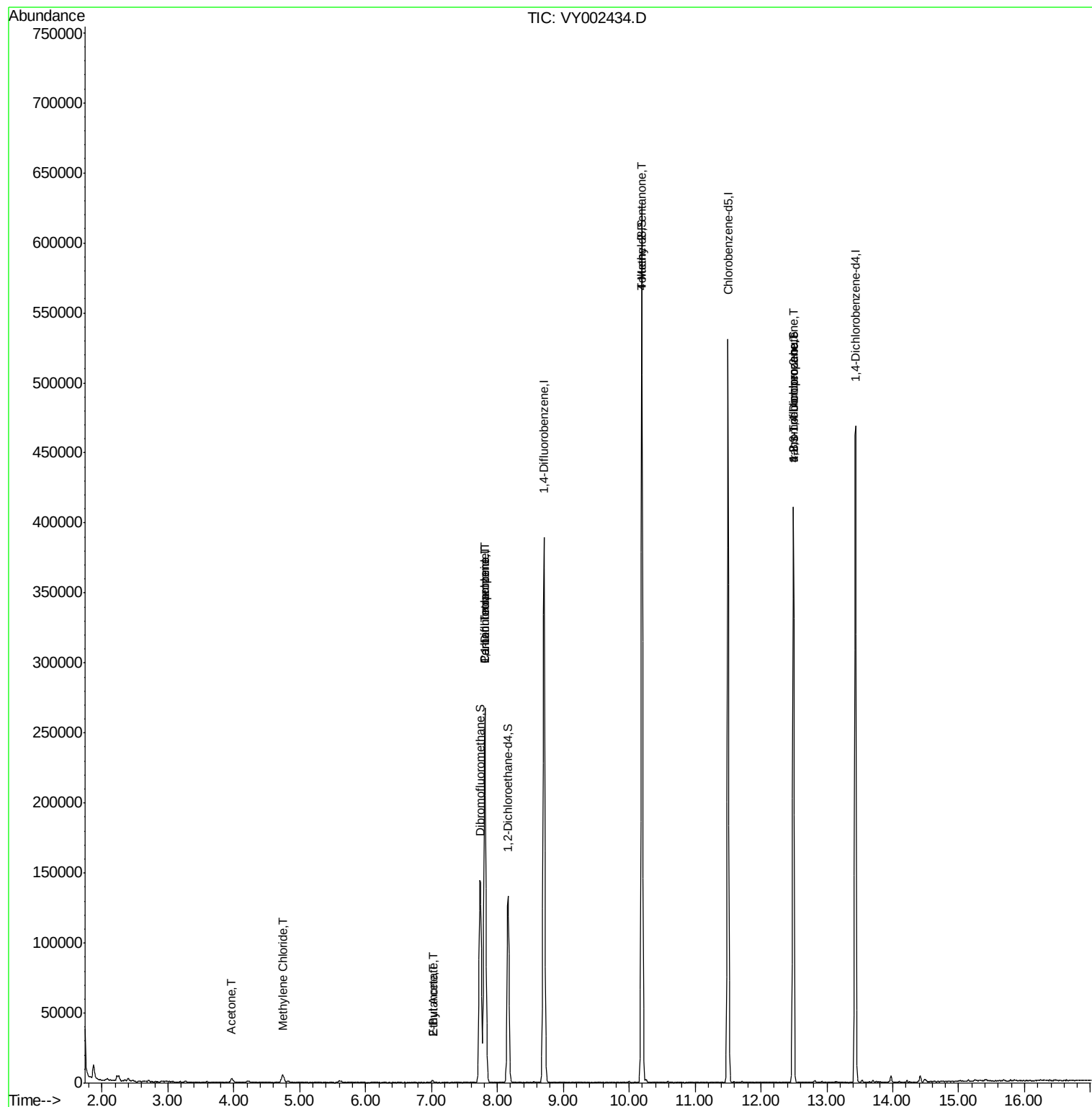
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.81  | 168  | 232102   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.71  | 114  | 368917   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.50 | 117  | 324192   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.44 | 152  | 133840   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.16  | 65   | 98107    | 58.12  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 116.24% |          |
| 35) Dibromofluoromethane       | 7.74  | 113  | 106199   | 54.73  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 109.46% |          |
| 50) Toluene-d8                 | 10.19 | 98   | 430801   | 54.89  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 109.78% |          |
| 62) 4-Bromofluorobenzene       | 12.49 | 95   | 123933   | 47.83  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 95.66%  |          |
| Target Compounds               |       |      |          | Qvalue |         |          |
| 16) Acetone                    | 3.97  | 43   | 4854     | 10.760 | ug/l #  | 80       |
| 20) Methylene Chloride         | 4.74  | 84   | 4910     | 1.945  | ug/l    | 93       |
| 25) 2-Butanone                 | 7.02  | 43   | 1973     | 3.068  | ug/l #  | 63       |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 13622    | 4.589  | ug/l #  | 47       |
| 37) Ethyl Acetate              | 7.02  | 43   | 1973     | 1.421  | ug/l #  | 64       |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 20235    | 6.768  | ug/l #  | 15       |
| 51) 4-Methyl-2-Pentanone       | 10.19 | 43   | 1486     | 1.099  | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 57528    | 48.790 | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 57528    | 95.087 | ug/l #  | 19       |

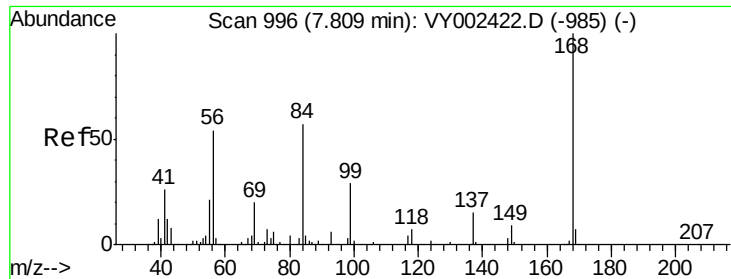
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Apr 21 16:08:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042020S.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 20 15:14:11 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.00 min

Lab File: VY002434.D

Acq: 21 Apr 2020 15:41

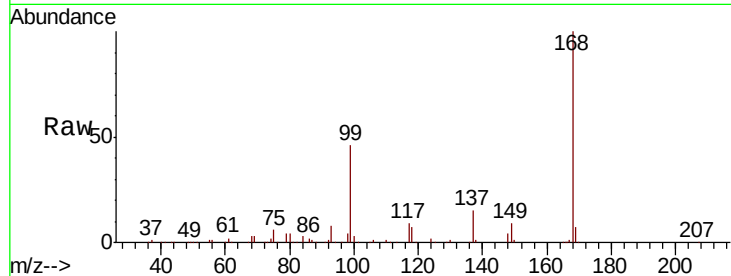
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 232102

Ion Ratio Lower Upper

168 100

99 45.9 37.0 55.4



Abundance Ion 167.90 (167.60 to 168.60): VY002422.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002422.D (-985) (-)

7.81

100000

80000

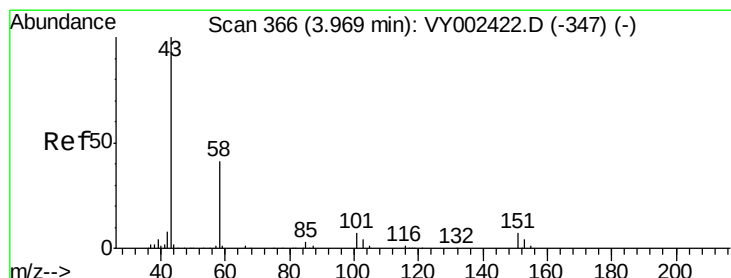
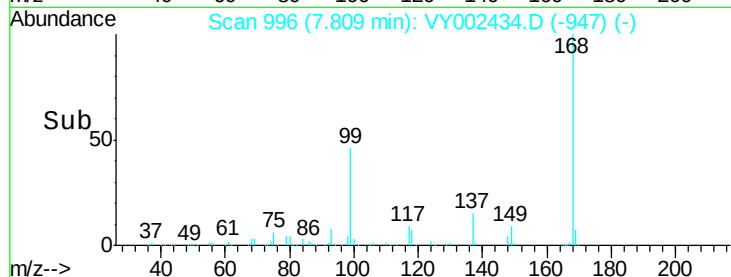
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#16

Acetone

Concen: 10.760 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.00 min

Lab File: VY002434.D

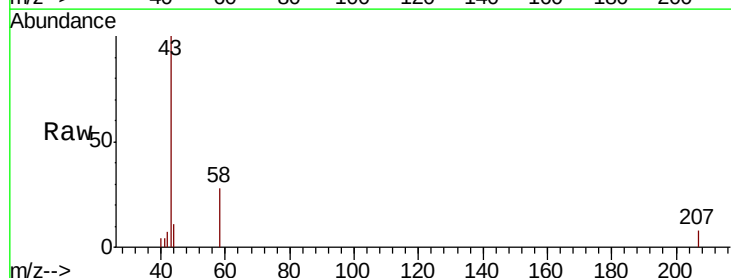
Acq: 21 Apr 2020 15:41

Tgt Ion: 43 Resp: 4854

Ion Ratio Lower Upper

43 100

58 28.2 32.6 48.8#



Abundance Ion 43.00 (42.70 to 43.70): VY002422.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY002422.D (-347) (-)

3.97

2000

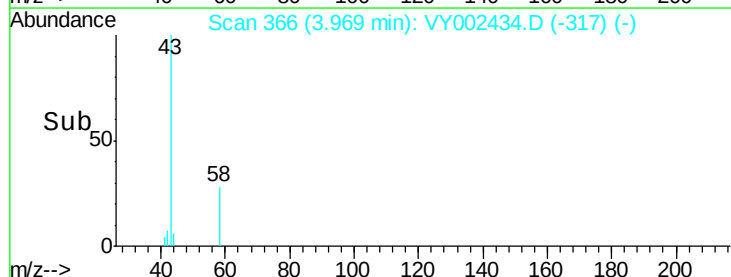
1500

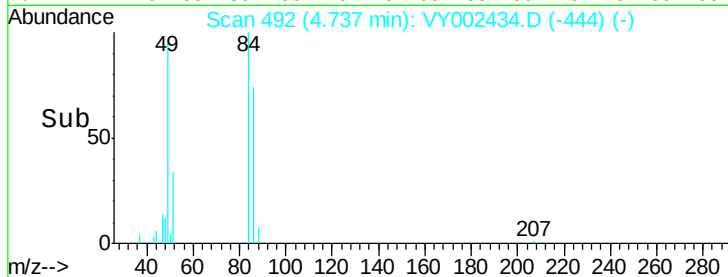
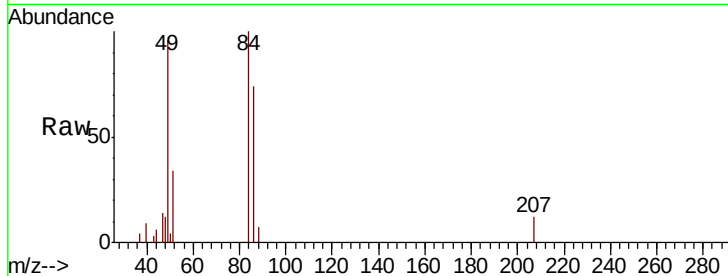
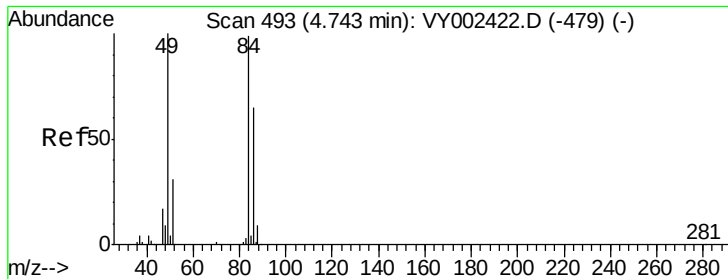
1000

500

0

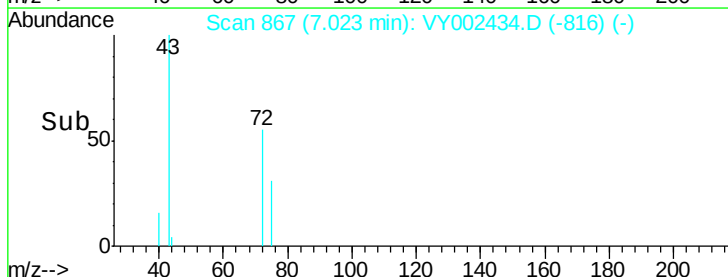
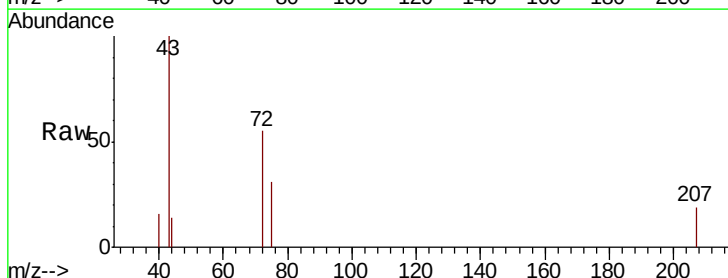
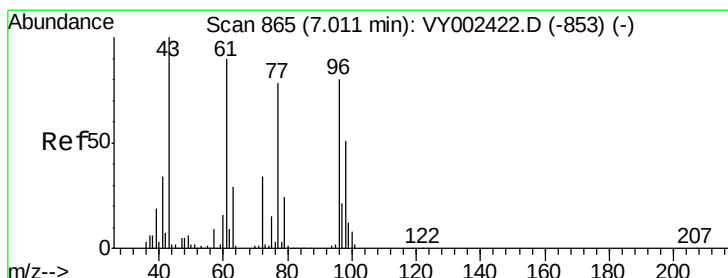
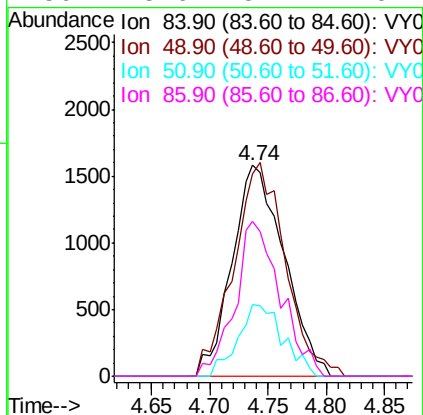
Time--> 3.90 3.95 4.00 4.05





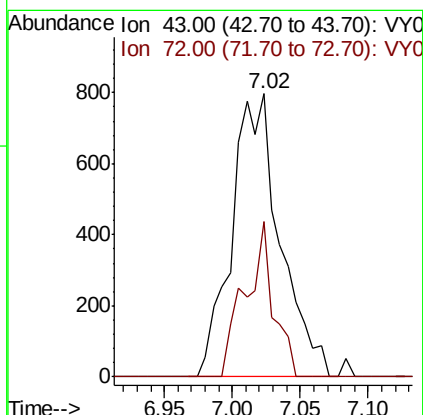
#20  
Methylene Chloride  
Concen: 1.945 ug/l  
RT: 4.74 min Scan# 492  
Delta R.T. -0.01 min  
Lab File: VY002434.D  
Acq: 21 Apr 2020 15:41

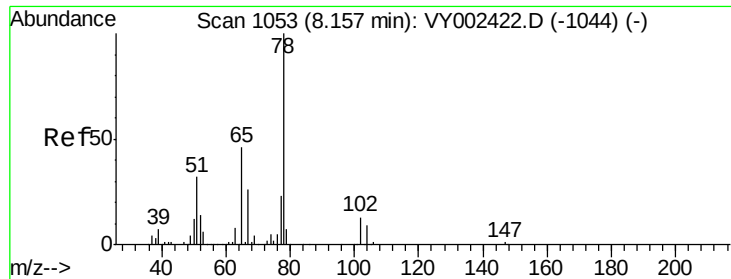
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 4910  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 95.8  | 81.0  | 121.6 |
| 51       | 33.9  | 24.9  | 37.3  |
| 86       | 73.6  | 52.7  | 79.1  |



#25  
2-Butanone  
Concen: 3.068 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. 0.01 min  
Lab File: VY002434.D  
Acq: 21 Apr 2020 15:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1973  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 55.0  | 27.0  | 40.6# |

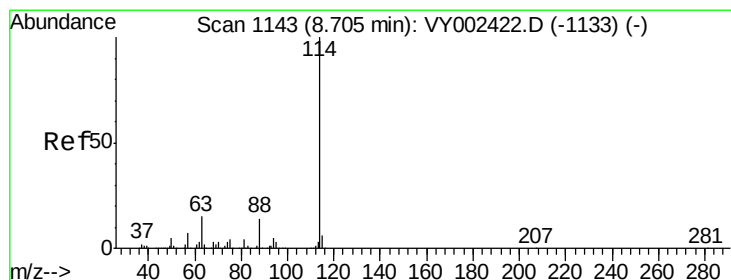
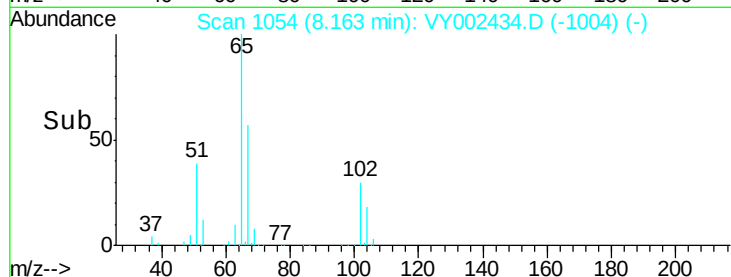
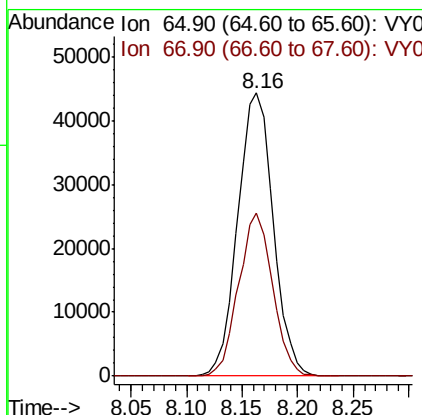
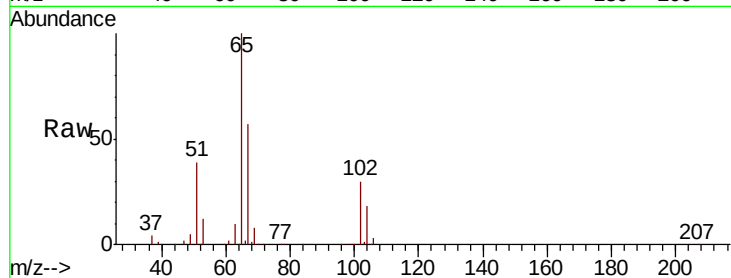




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.117 ug/l  
 RT: 8.16 min Scan# 1054  
 Delta R.T. 0.01 min  
 Lab File: VY002434.D  
 Acq: 21 Apr 2020 15:41

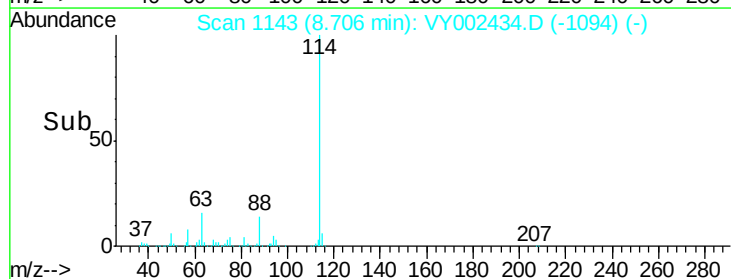
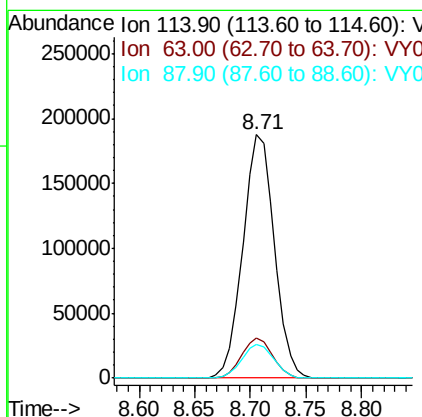
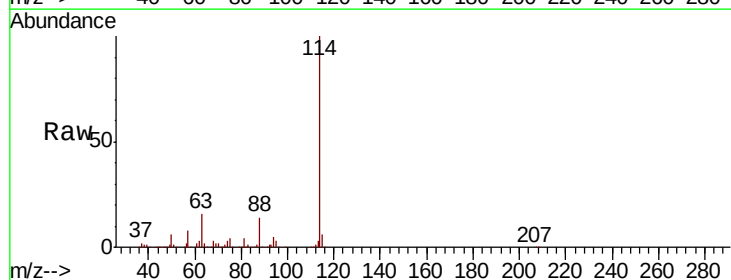
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

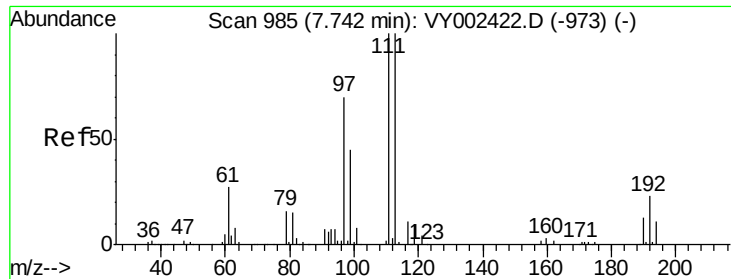
Tot Ion: 65 Resp: 98107  
 Ion Ratio Lower Upper  
 65 100  
 67 55.4 0.0 111.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. 0.00 min  
 Lab File: VY002434.D  
 Acq: 21 Apr 2020 15:41

Tgt Ion: 114 Resp: 368917  
 Ion Ratio Lower Upper  
 114 100  
 63 16.2 0.0 31.0  
 88 13.9 0.0 28.2

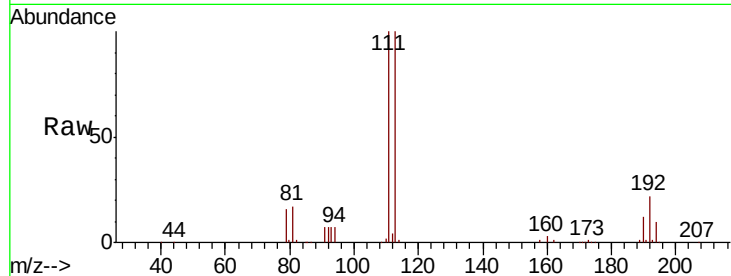




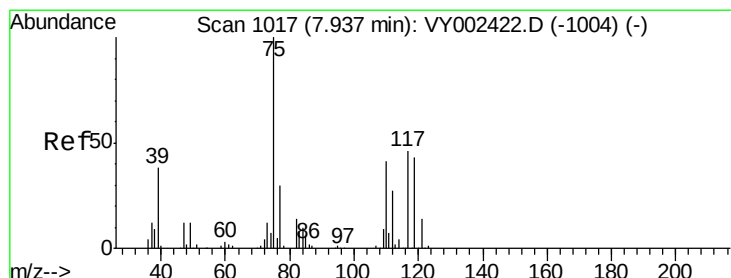
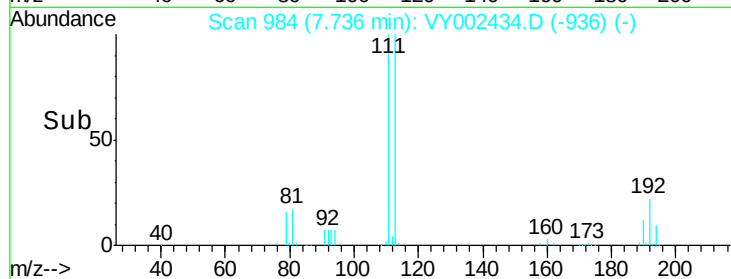
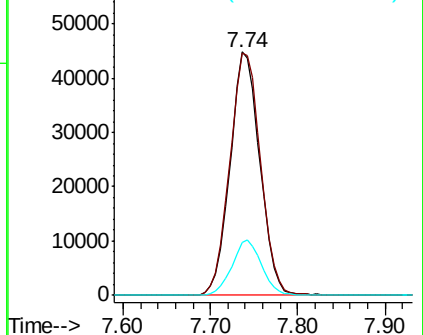
#35  
 Dibromofluoromethane  
 Concen: 54.729 ug/l  
 RT: 7.74 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: VY002434.D  
 Acq: 21 Apr 2020 15:41

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 81.7  | 122.5 |
| 192     | 22.4  | 17.8  | 26.6  |

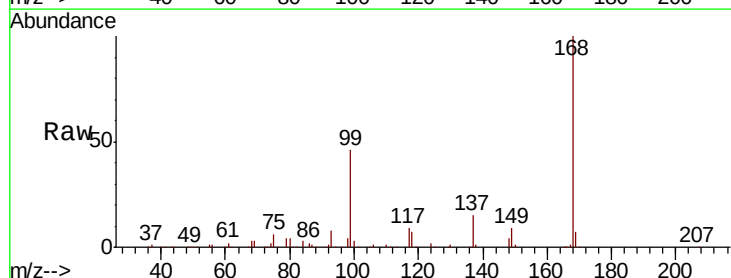


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

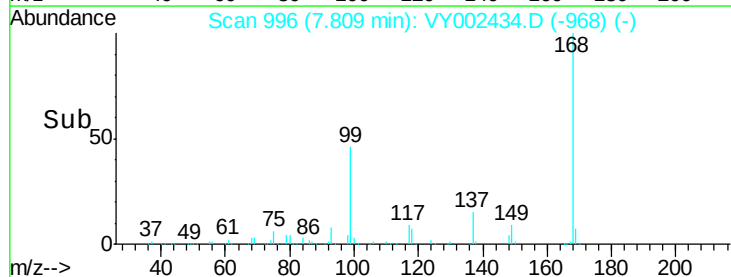
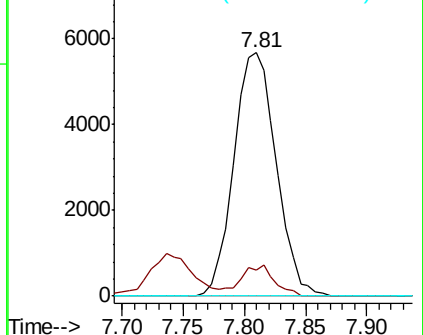


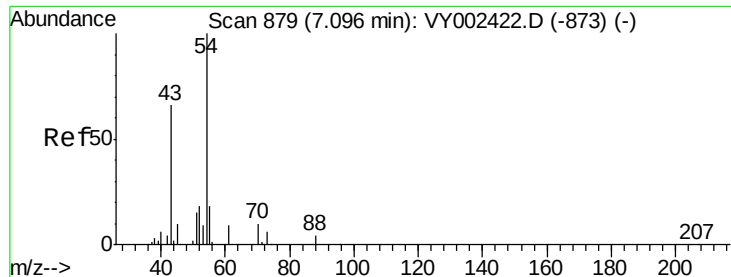
#36  
 1,1-Dichloropropene  
 Concen: 4.589 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.13 min  
 Lab File: VY002434.D  
 Acq: 21 Apr 2020 15:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.0  | 20.4  | 61.2# |
| 77      | 0.0   | 25.5  | 38.3# |



Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VY0

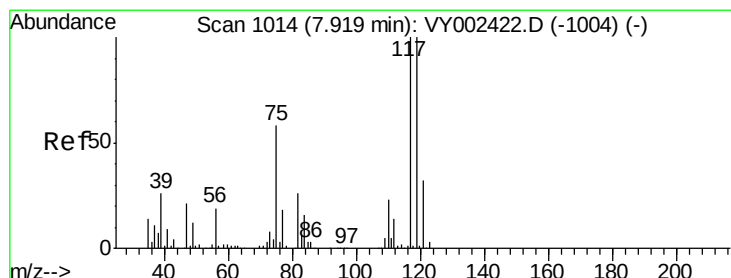
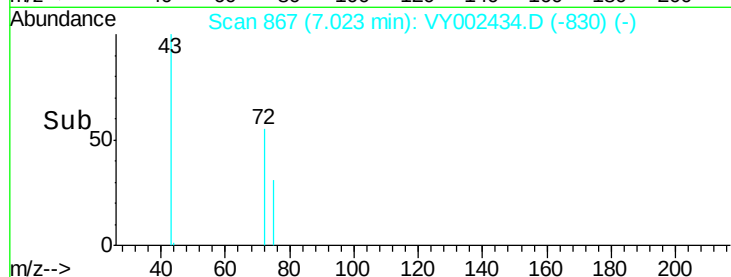
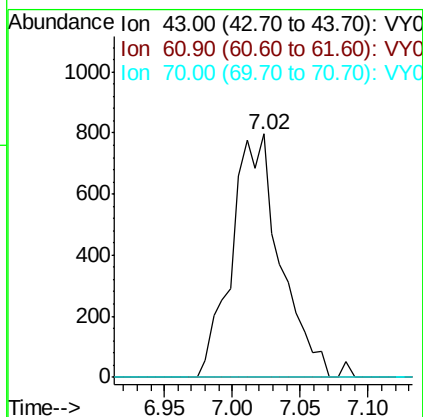
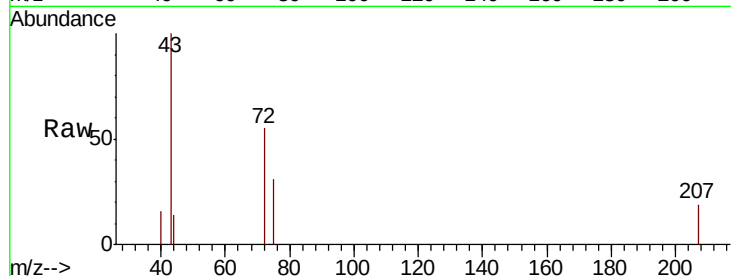




#37  
Ethyl Acetate  
Concen: 1.421 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. -0.07 min  
Lab File: VY002434.D  
Acq: 21 Apr 2020 15:41

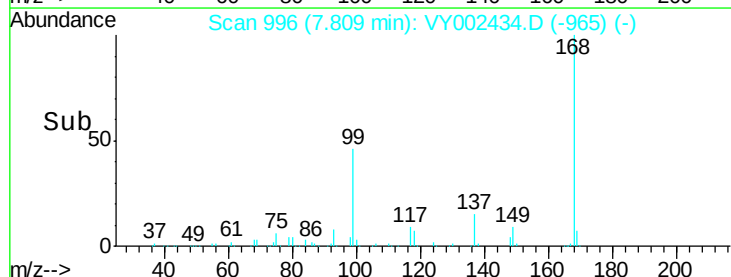
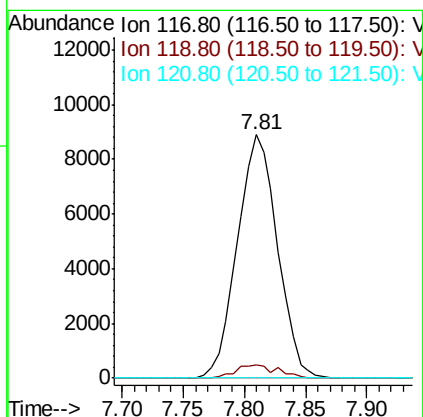
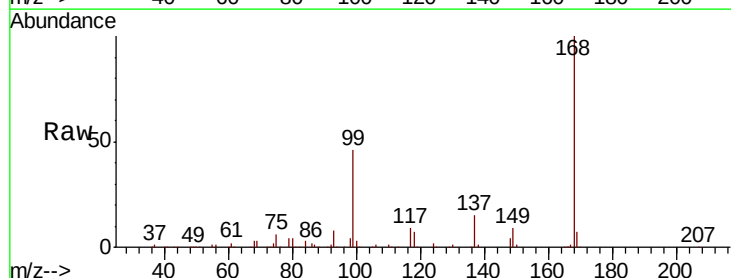
Instrument :  
MSVOA\_Y  
ClientSampled :

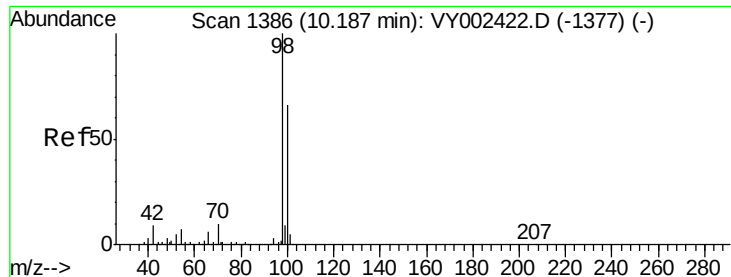
Tot Ion: 43 Resp: 1973  
Ion Ratio Lower Upper  
43 100  
61 0.0 13.5 20.3#  
70 0.0 10.6 16.0#



#38  
Carbon Tetrachloride  
Concen: 6.768 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.11 min  
Lab File: VY002434.D  
Acq: 21 Apr 2020 15:41

Tgt Ion: 117 Resp: 20235  
Ion Ratio Lower Upper  
117 100  
119 5.3 79.6 119.4#  
121 0.0 25.4 38.2#





#50

Toluene-d8

Concen: 54.891 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002434.D

Acq: 21 Apr 2020 15:41

Instrument :

MSVOA\_Y

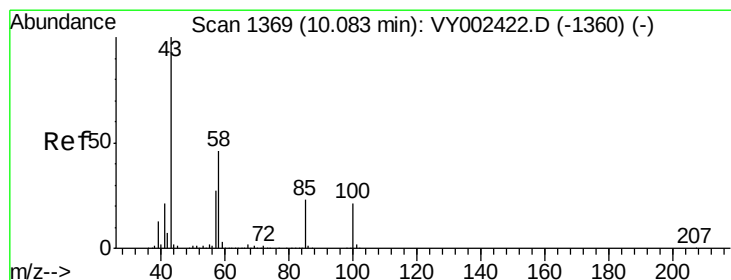
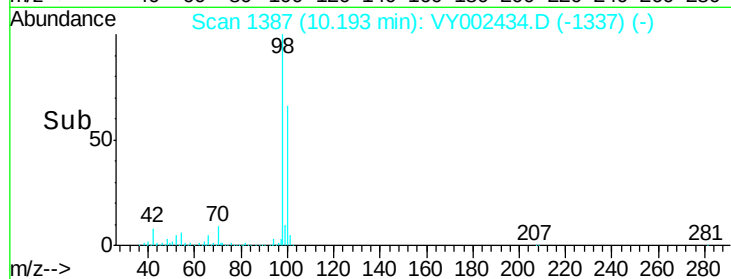
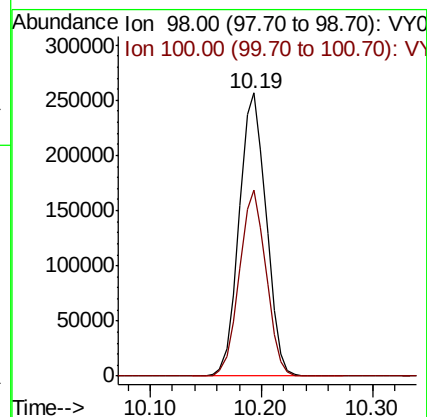
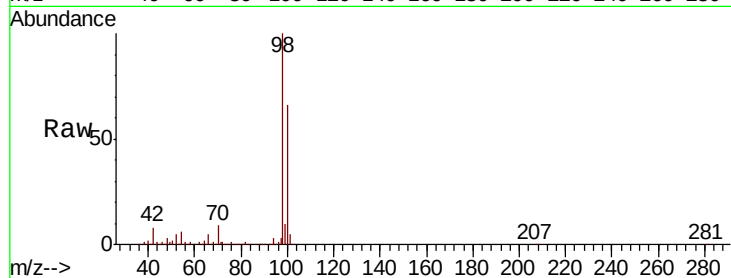
ClientSampled :

Tot Ion: 98 Resp: 430801

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 1.099 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.10 min

Lab File: VY002434.D

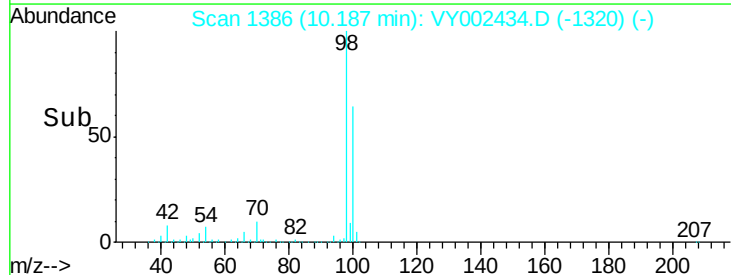
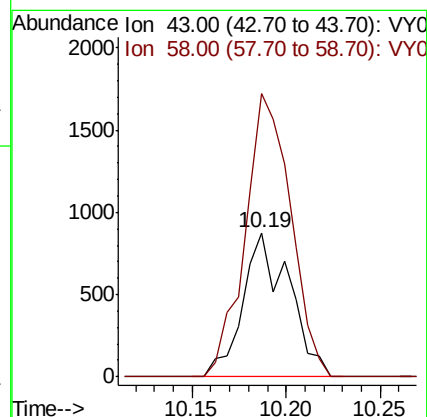
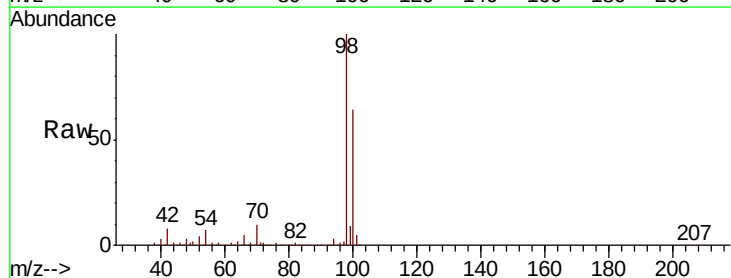
Acq: 21 Apr 2020 15:41

Tgt Ion: 43 Resp: 1486

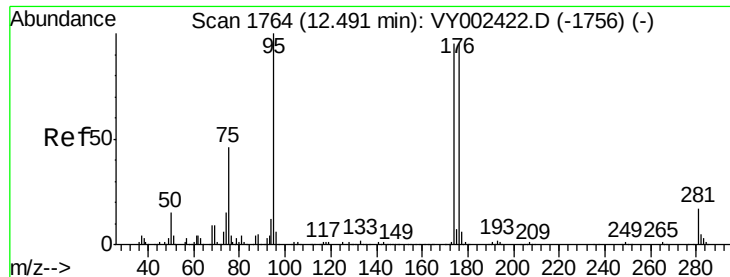
Ion Ratio Lower Upper

43 100

58 194.2 36.8 55.2#



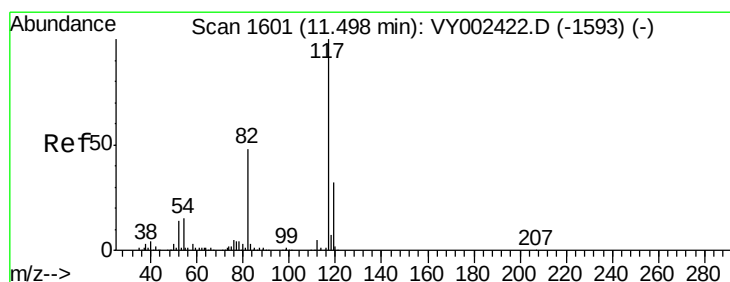
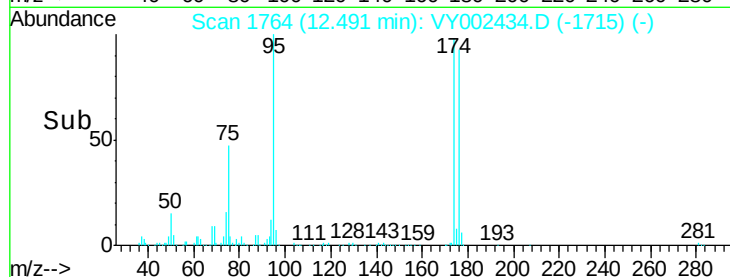
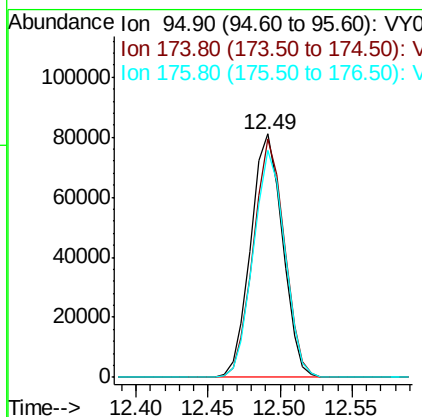
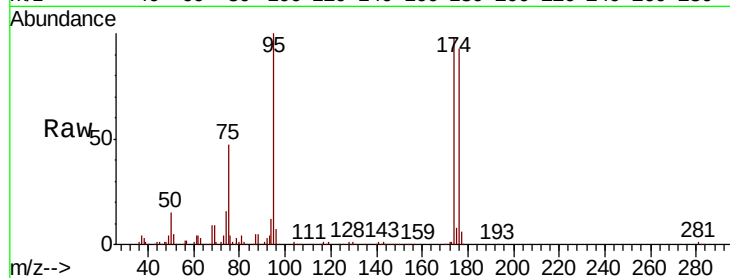




#62  
4-Bromofluorobenzene  
Concen: 47.828 ug/l  
RT: 12.49 min Scan# 1764  
Delta R.T. 0.00 min  
Lab File: VY002434.D  
Acq: 21 Apr 2020 15:41

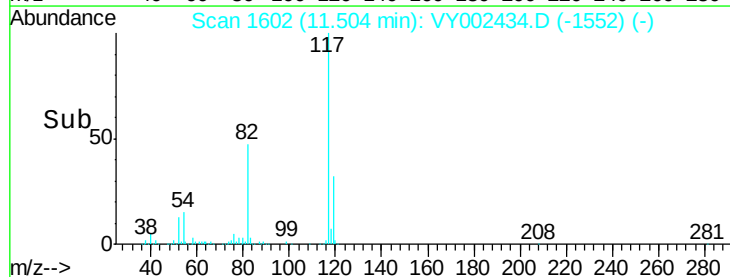
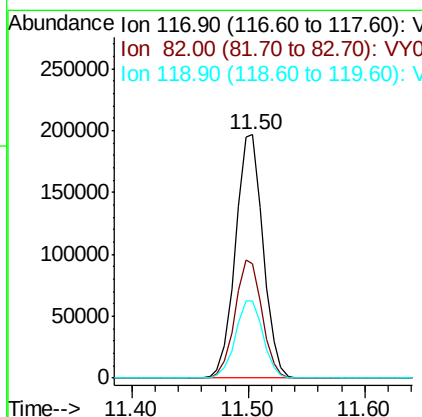
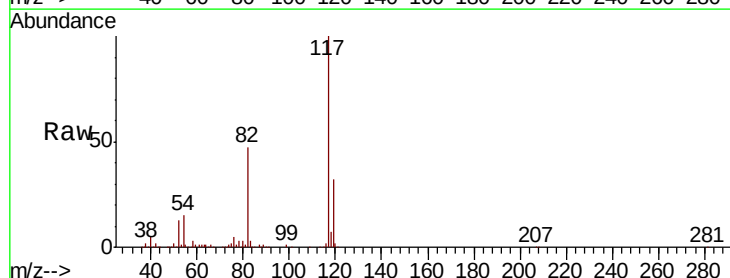
Instrument :  
MSVOA\_Y  
ClientSampleId :

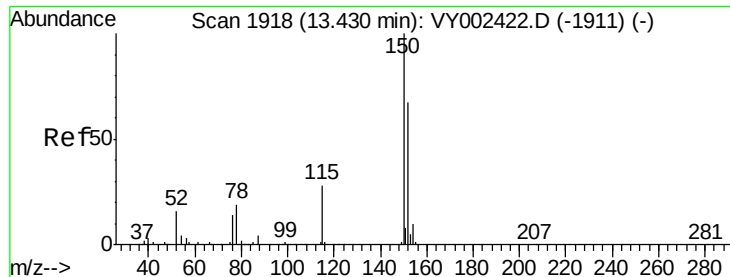
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 95.5  | 0.0   | 185.8 |
| 176     | 91.7  | 0.0   | 181.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.01 min  
Lab File: VY002434.D  
Acq: 21 Apr 2020 15:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 46.9  | 38.4  | 57.6  |
| 119     | 31.7  | 25.3  | 37.9  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY002434.D

Acq: 21 Apr 2020 15:41

Instrument :

MSVOA\_Y

ClientSampleId :

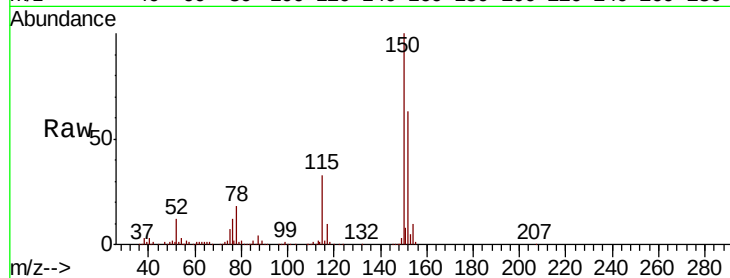
Tot Ion:152 Resp: 133840

Ion Ratio Lower Upper

152 100

115 53.0 27.3 81.8

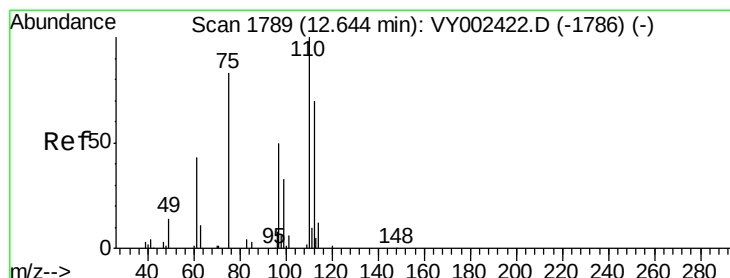
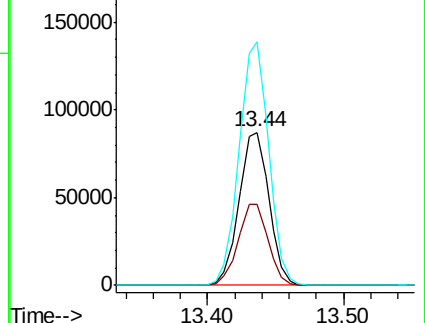
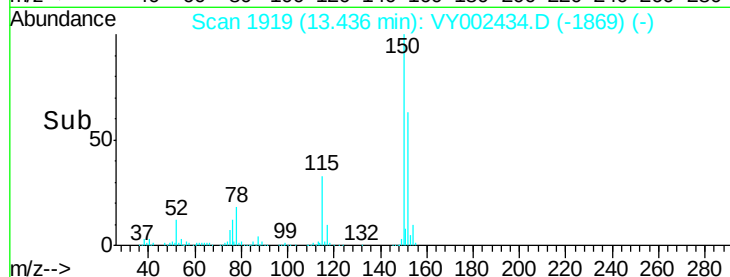
150 157.2 0.0 344.0



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: 48.790 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002434.D

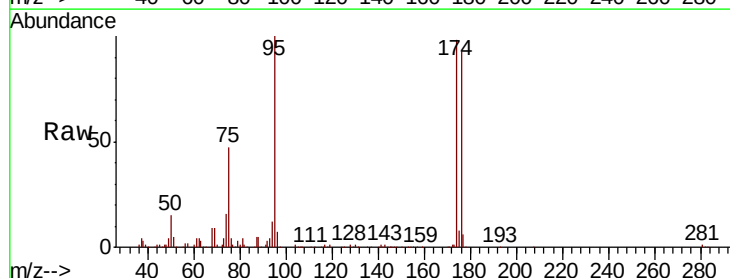
Acq: 21 Apr 2020 15:41

Tgt Ion: 75 Resp: 57528

Ion Ratio Lower Upper

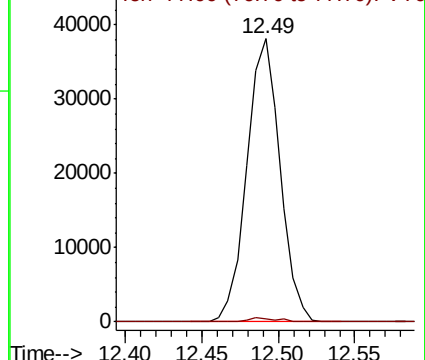
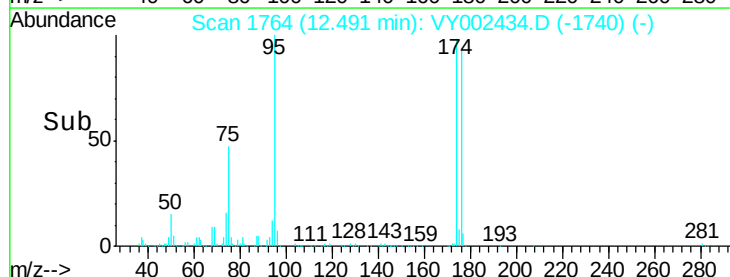
75 100

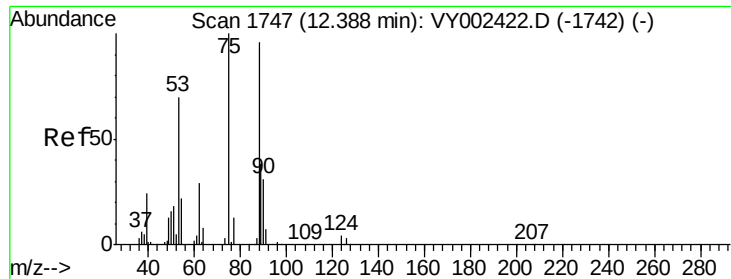
77 1.4 0.0 0.0#



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: 95.087 ug/l  
 RT: 12.49 min Scan# 1764  
 Delta R.T. 0.10 min  
 Lab File: VY002434.D  
 Acq: 21 Apr 2020 15:41

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion: 75 Resp: 57528  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 58.7 88.1#  
 89 0.1 37.9 56.9#

