

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY061820\  
 Data File : VY002930.D  
 Acq On : 18 Jun 2020 19:35  
 Operator : SY/MD  
 Sample : L3034-13  
 Misc : 4.93G/5ML/MSVOA Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jun 19 05:08:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 267412   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 439430   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 416326   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 219153   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 135206   | 58.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.46% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 137573   | 53.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.84% |          |
| 50) Toluene-d8              | 10.18 | 98   | 515832   | 49.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.08%  |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 182410   | 51.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.52% |          |

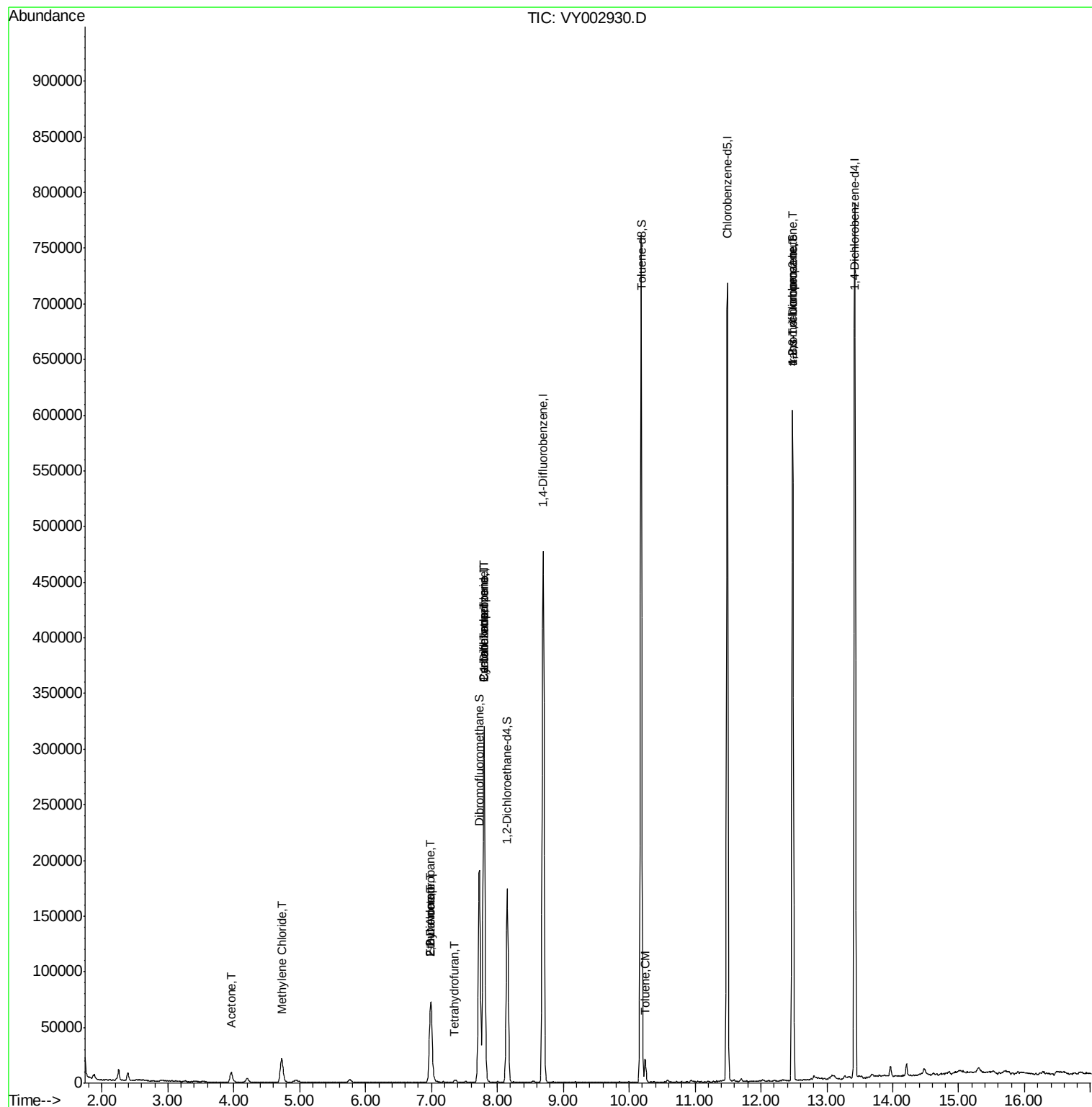
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.95  | 59   | 1695     | Below Cal | #      | 74     |
| 16) Acetone                    | 3.96  | 43   | 16052    | 29.483    | ug/l   | 98     |
| 18) Methyl Acetate             | 4.49  | 43   | 762      | Below Cal | #      | 84     |
| 20) Methylene Chloride         | 4.73  | 84   | 17325    | 6.511     | ug/l   | 94     |
| 25) 2-Butanone                 | 6.99  | 43   | 3827     | 4.512     | ug/l # | 79     |
| 26) 2,2-Dichloropropane        | 6.99  | 77   | 5461     | 1.436     | ug/l # | 51     |
| 29) Tetrahydrofuran            | 7.36  | 42   | 1201     | 2.177     | ug/l # | 80     |
| 31) Cyclohexane                | 7.79  | 56   | 4262     | 1.082     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 16660    | 4.501     | ug/l # | 48     |
| 37) Ethyl Acetate              | 6.99  | 43   | 3827     | 1.900     | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 24249    | 5.897     | ug/l # | 15     |
| 52) Toluene                    | 10.24 | 92   | 8518     | 1.190     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 87367    | 44.243    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 87367    | 83.353    | ug/l # | 17     |

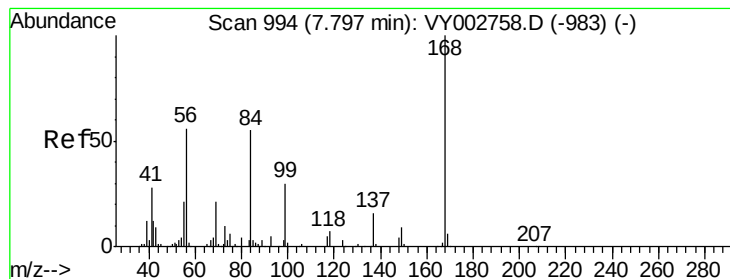
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY061820\  
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Sample : L3034-13  
Misc : 4.93G/5ML/MSVOA Y/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Jun 19 05:08:34 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 13:13:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

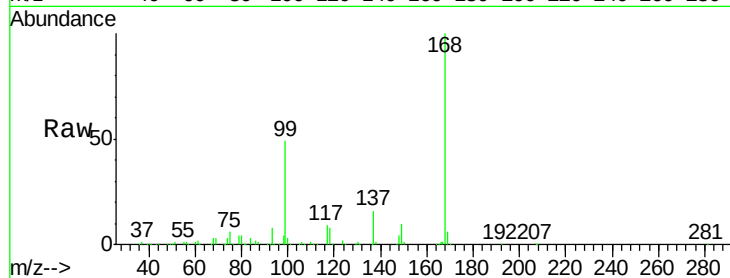
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:168 Resp: 267412

Ion Ratio Lower Upper

168 100

99 48.9 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VY002930.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY002930.D (-945) (-)

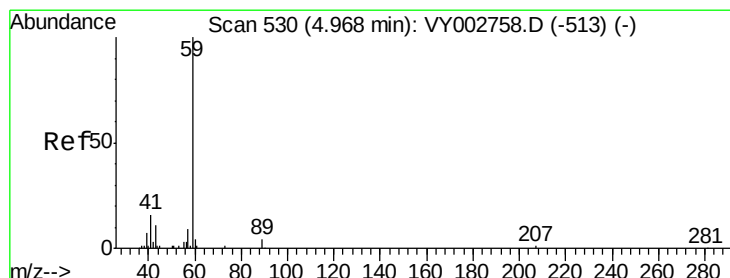
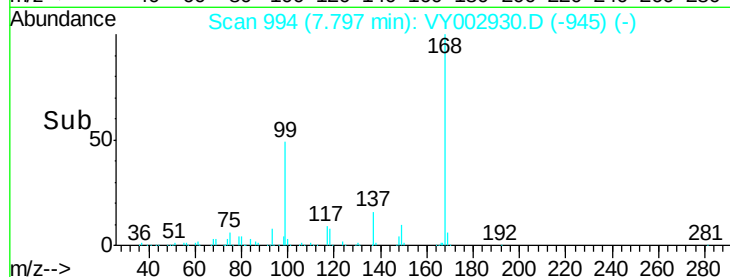
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.95 min Scan# 527

Delta R.T. -0.02 min

Lab File: VY002930.D

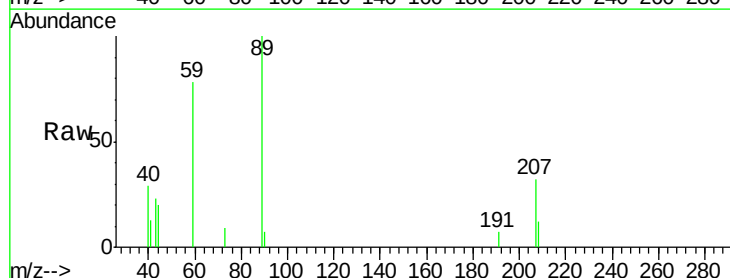
Acq: 18 Jun 2020 19:35

Tgt Ion: 59 Resp: 1695

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY002930.D (-481) (-)

Ion 57.00 (56.70 to 57.70): VY002930.D (-481) (-)

4.95

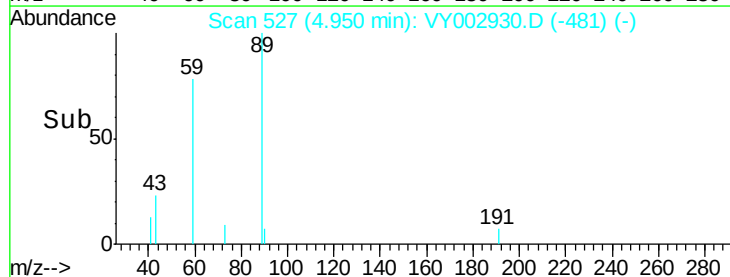
600

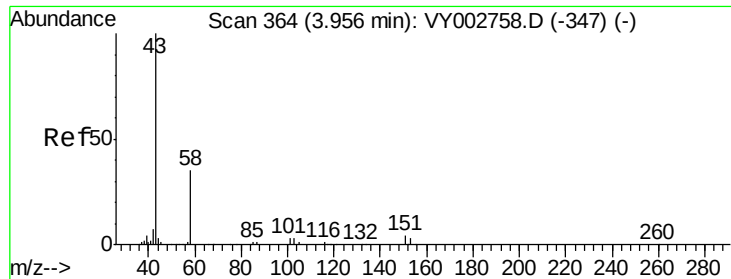
400

200

0

Time-->





#16

Acetone

Concen: 29.483 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

Instrument :

MSVOA\_Y

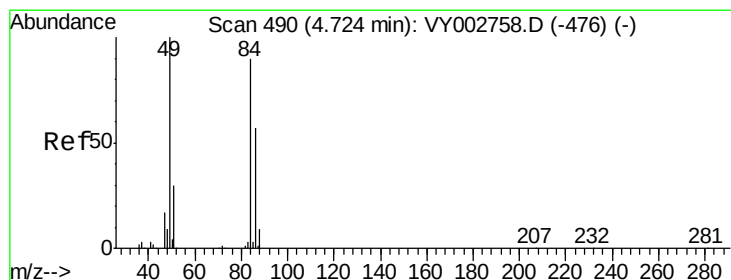
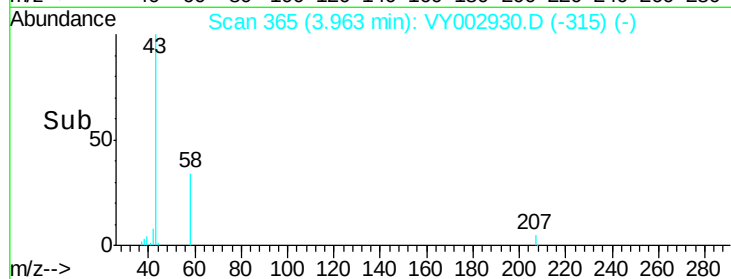
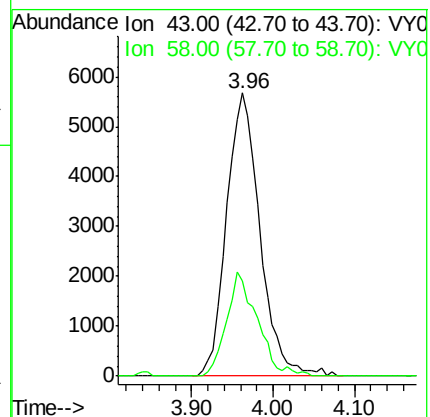
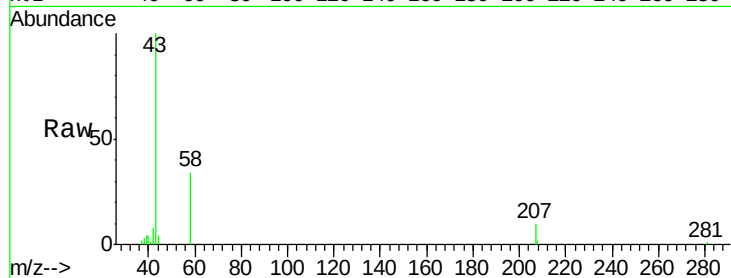
ClientSampleId :

Tot Ion: 43 Resp: 16052

Ion Ratio Lower Upper

43 100

58 33.7 27.7 41.5



#20

Methylene Chloride

Concen: 6.511 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

Tgt Ion: 84 Resp: 17325

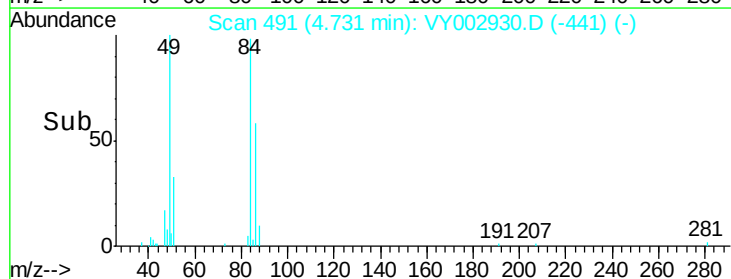
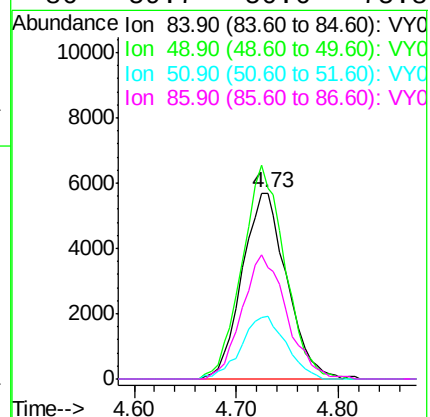
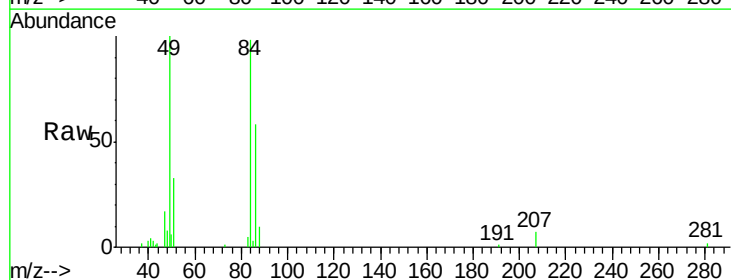
Ion Ratio Lower Upper

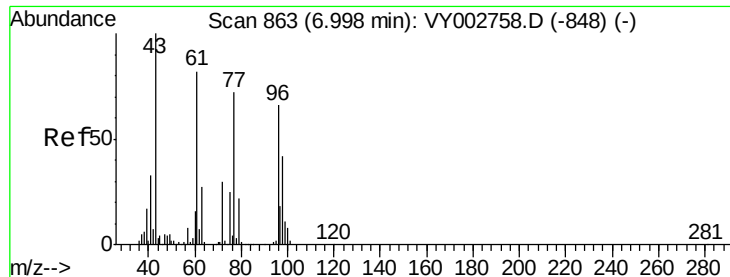
84 100

49 102.3 88.5 132.7

51 33.9 26.8 40.2

86 59.7 50.6 75.8

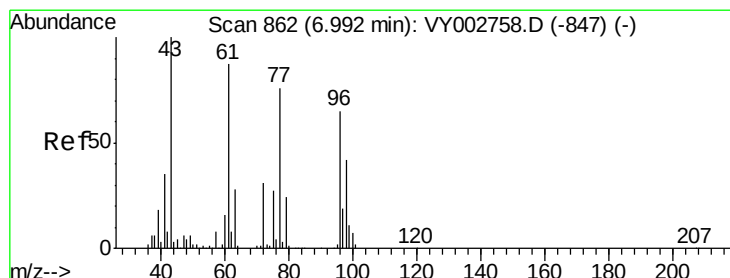
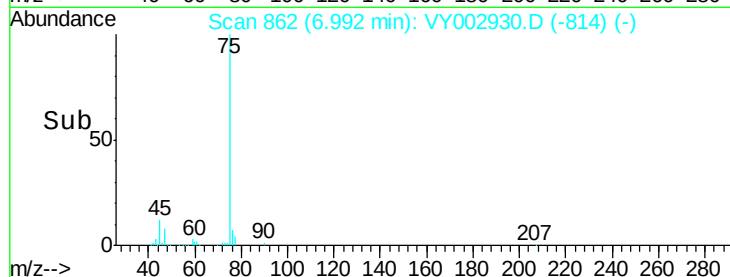
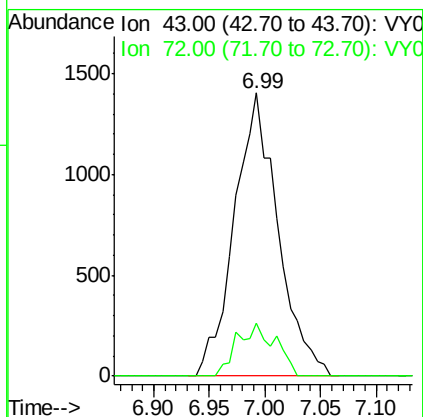
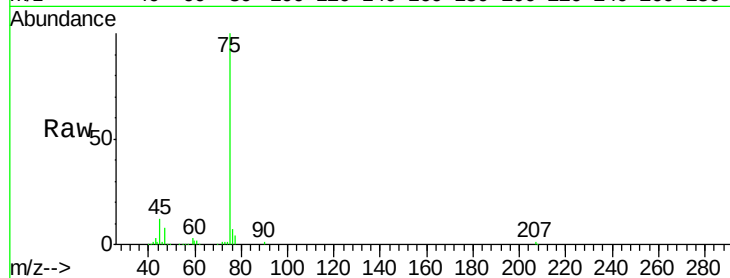




#25  
 2-Butanone  
 Concen: 4.512 ug/l  
 RT: 6.99 min Scan# 862  
 Delta R.T. -0.01 min  
 Lab File: VY002930.D  
 Acq: 18 Jun 2020 19:35

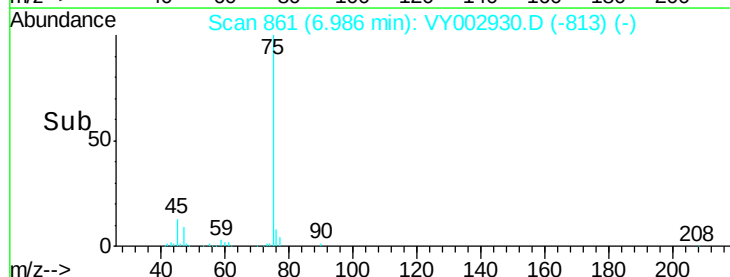
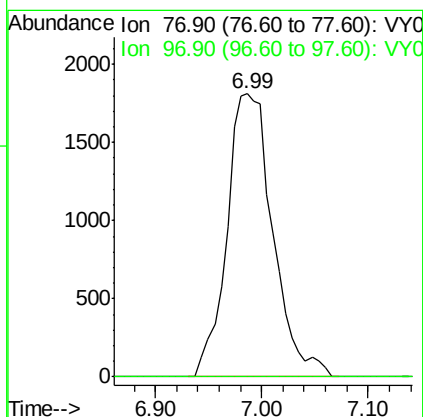
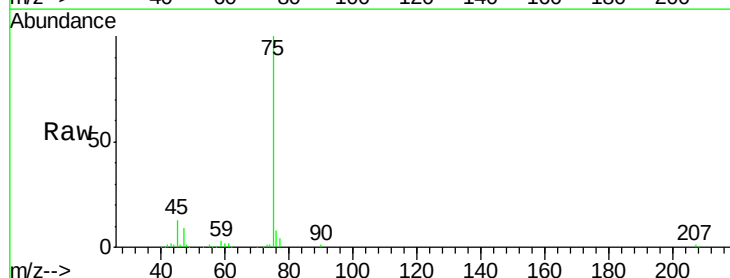
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

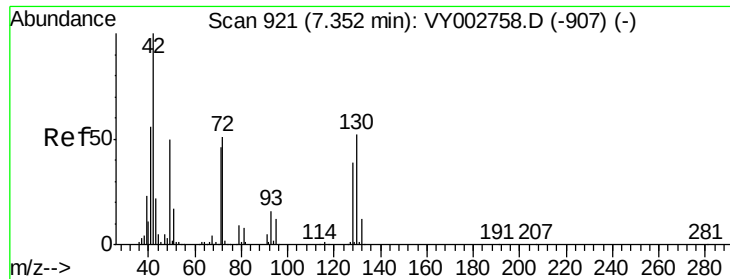
Tot Ion: 43 Resp: 3827  
 Ion Ratio Lower Upper  
 43 100  
 72 18.5 23.9 35.9#



#26  
 2,2-Dichloropropane  
 Concen: 1.436 ug/l  
 RT: 6.99 min Scan# 861  
 Delta R.T. -0.01 min  
 Lab File: VY002930.D  
 Acq: 18 Jun 2020 19:35

Tgt Ion: 77 Resp: 5461  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 12.2 36.6#

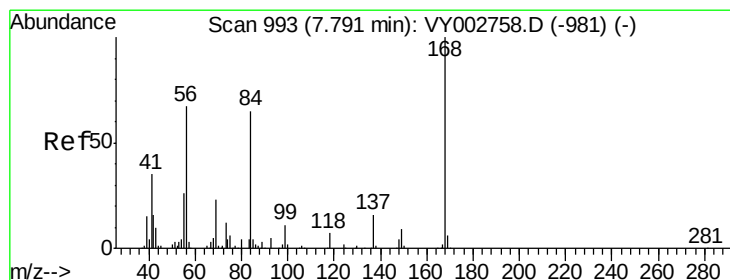
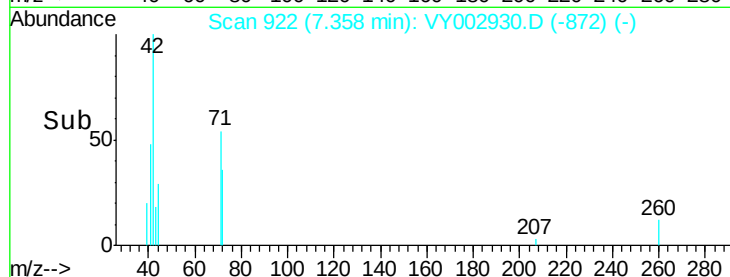
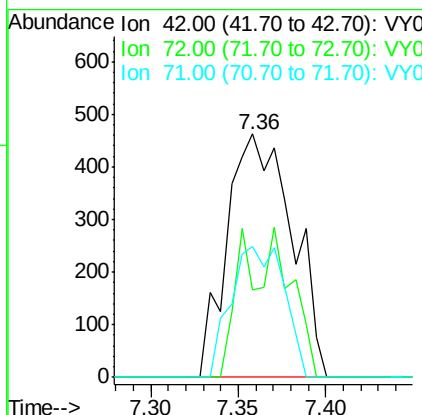
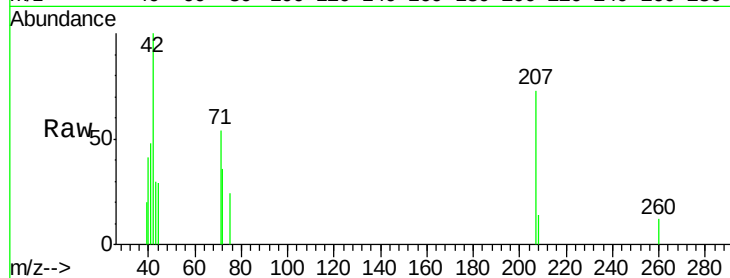




#29  
Tetrahydrofuran  
Concen: 2.177 ug/l  
RT: 7.36 min Scan# 922  
Delta R.T. 0.01 min  
Lab File: VY002930.D  
Acq: 18 Jun 2020 19:35

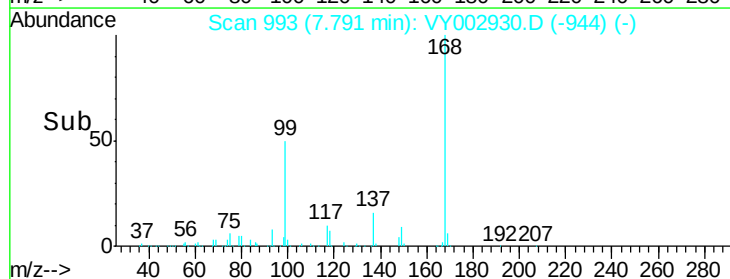
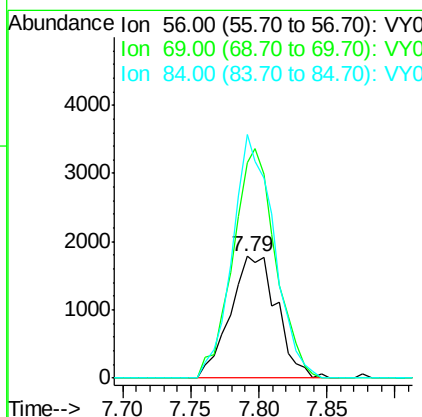
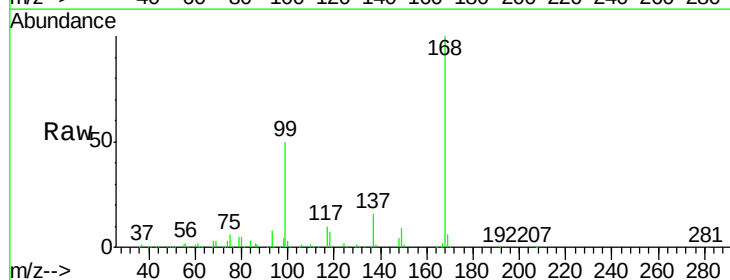
Instrument :  
MSVOA\_Y  
ClientSampleId :

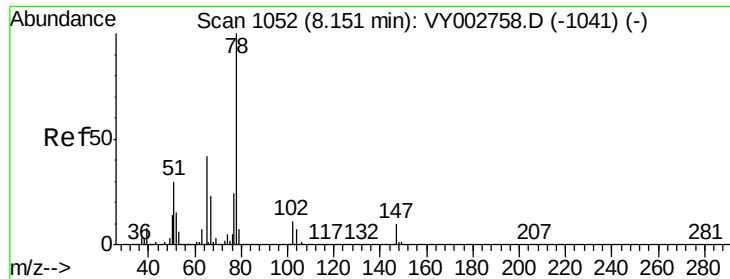
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 22.7  | 38.6  | 58.0# |
| 71      | 44.0  | 35.8  | 53.8  |



#31  
Cyclohexane  
Concen: 1.082 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: VY002930.D  
Acq: 18 Jun 2020 19:35

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 176.7 | 28.0  | 42.0#  |
| 84      | 200.0 | 77.7  | 116.5# |

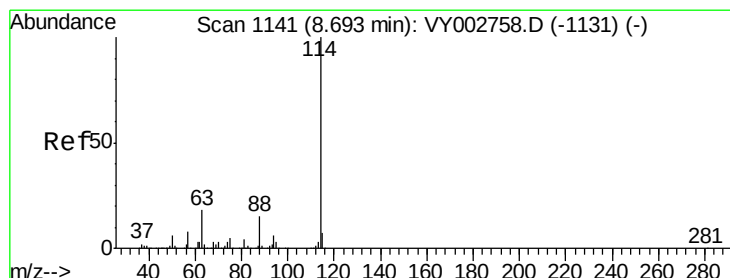
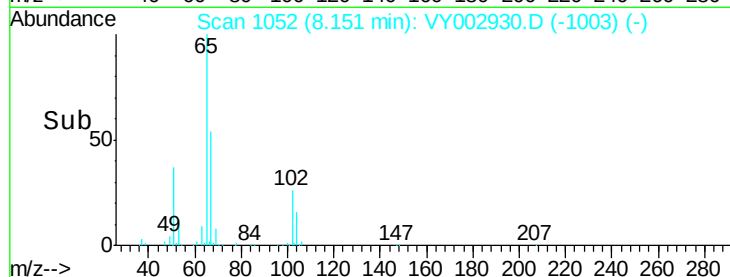
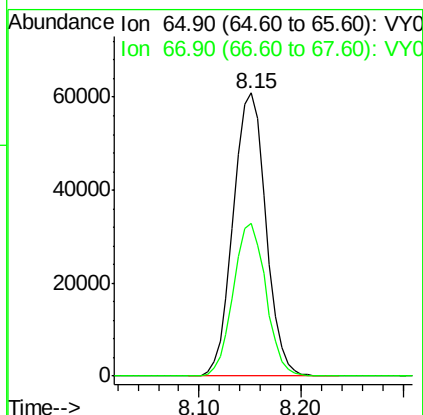
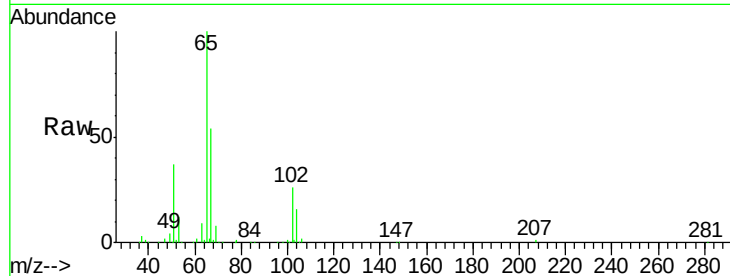




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.231 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. 0.00 min  
 Lab File: VY002930.D  
 Acq: 18 Jun 2020 19:35

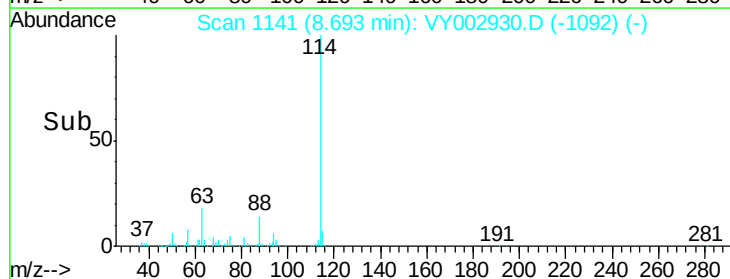
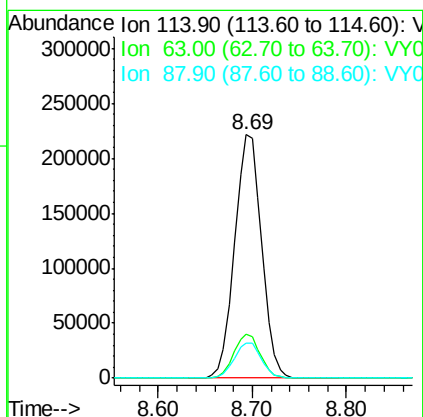
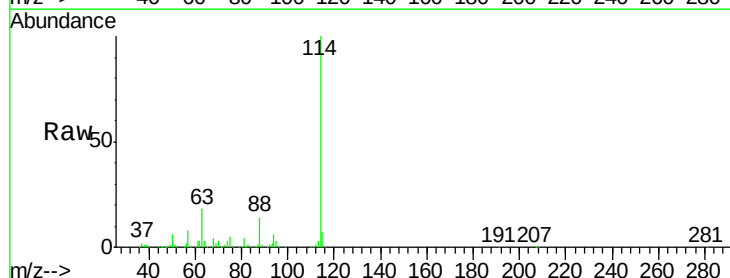
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

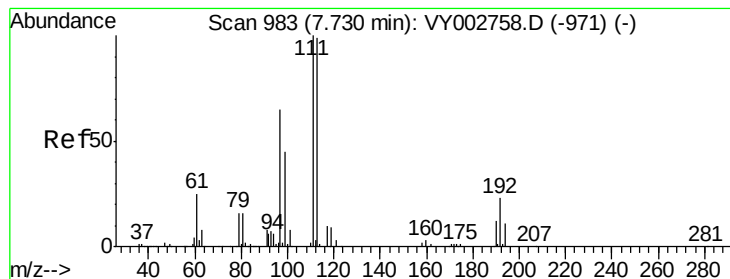
Tot Ion: 65 Resp: 135206  
 Ion Ratio Lower Upper  
 65 100  
 67 53.8 0.0 111.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY002930.D  
 Acq: 18 Jun 2020 19:35

Tgt Ion: 114 Resp: 439430  
 Ion Ratio Lower Upper  
 114 100  
 63 17.9 0.0 35.2  
 88 14.3 0.0 29.2





#35

Dibromofluoromethane

Concen: 53.421 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.00 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

Instrument :  
MSVOA\_Y  
ClientSampleId :

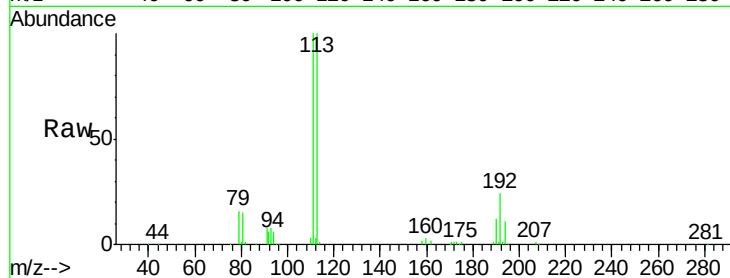
Tot Ion:113 Resp: 137573

Ion Ratio Lower Upper

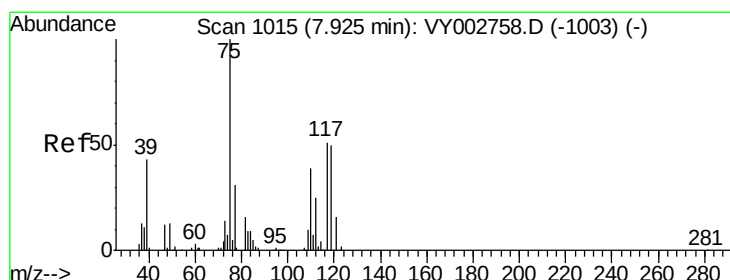
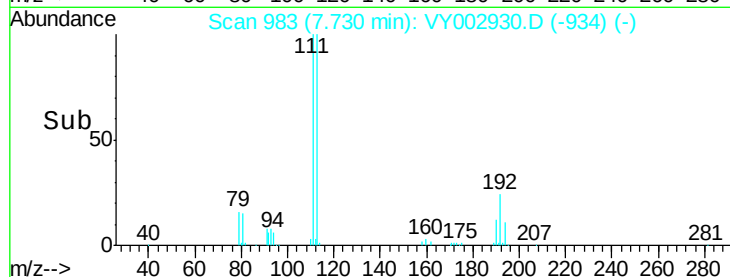
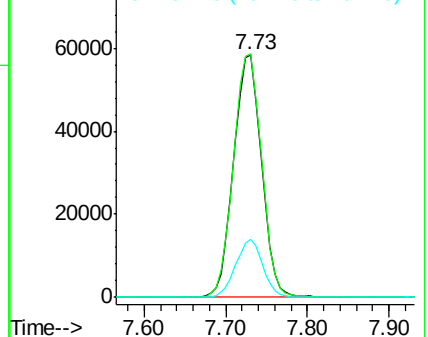
113 100

111 101.5 82.0 123.0

192 23.1 18.9 28.3



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: 4.501 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

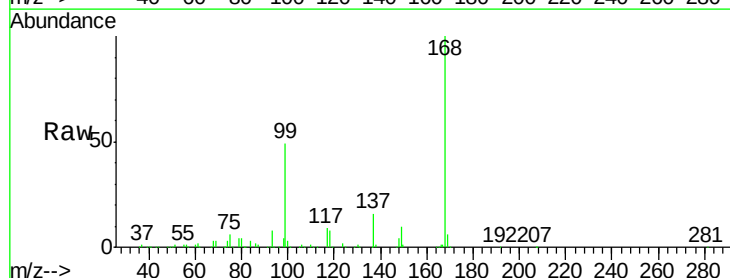
Tgt Ion: 75 Resp: 16660

Ion Ratio Lower Upper

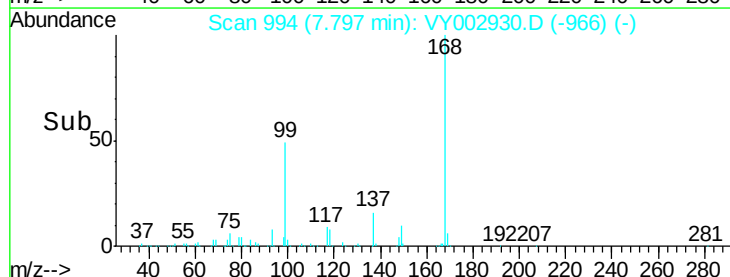
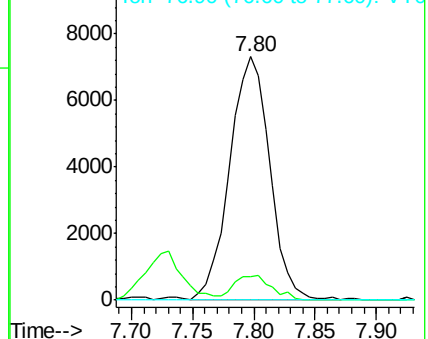
75 100

110 9.7 19.3 57.9#

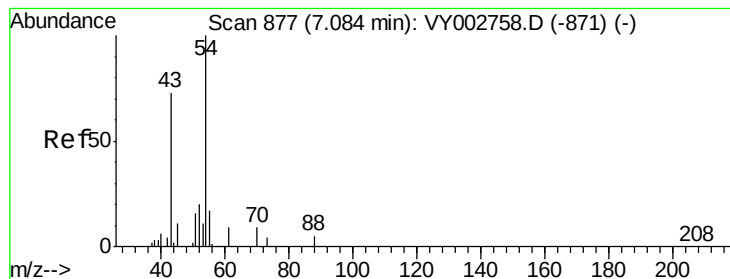
77 0.0 24.8 37.2#



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: 1.900 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.09 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

Instrument :

MSVOA\_Y

ClientSampleId :

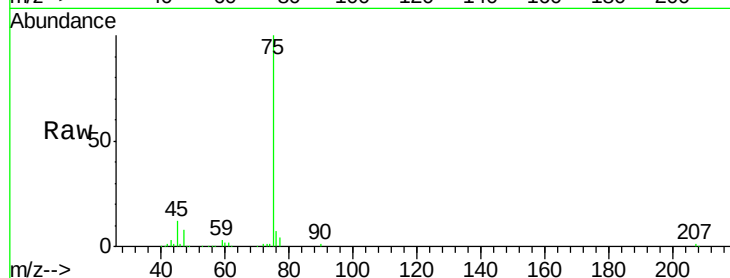
Tot Ion: 43 Resp: 3827

Ion Ratio Lower Upper

43 100

61 85.4 11.9 17.9#

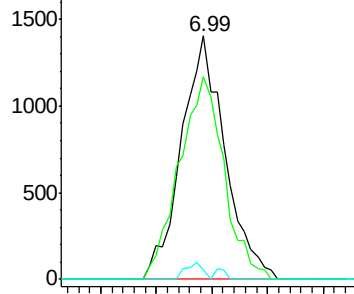
70 2.6 9.1 13.7#



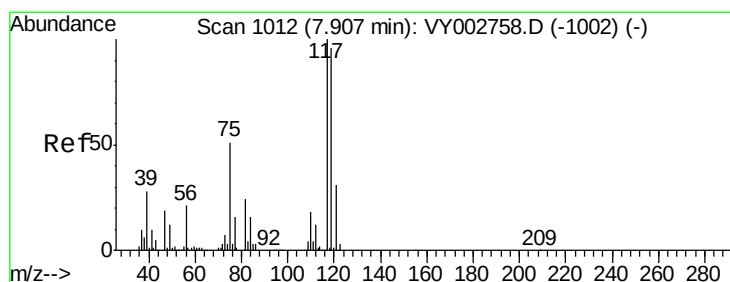
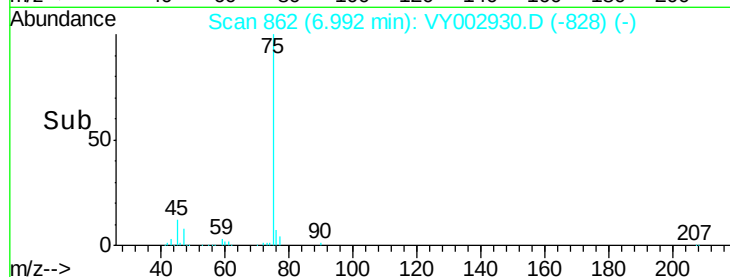
Abundance Ion 43.00 (42.70 to 43.70): VY002930.D (-862) (-)

Ion 60.90 (60.60 to 61.60): VY002930.D (-862) (-)

Ion 70.00 (69.70 to 70.70): VY002930.D (-862) (-)



Time-->



#38

Carbon Tetrachloride

Concen: 5.897 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

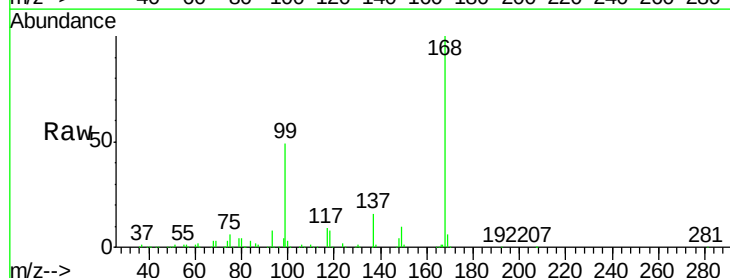
Tgt Ion: 117 Resp: 24249

Ion Ratio Lower Upper

117 100

119 4.2 76.8 115.2#

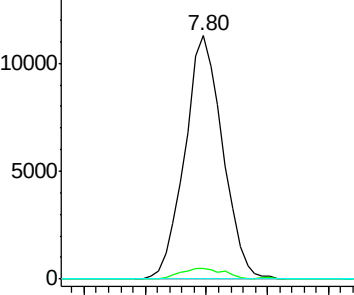
121 0.0 24.8 37.2#



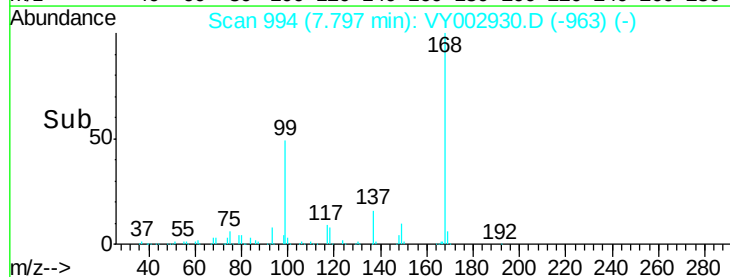
Abundance Ion 116.80 (116.50 to 117.50): VY002930.D (-994) (-)

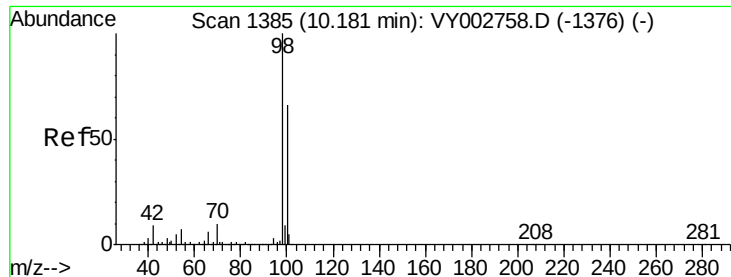
Ion 118.80 (118.50 to 119.50): VY002930.D (-994) (-)

Ion 120.80 (120.50 to 121.50): VY002930.D (-994) (-)



Time-->





#50

Toluene-d8

Concen: 49.539 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

Instrument :

MSVOA\_Y

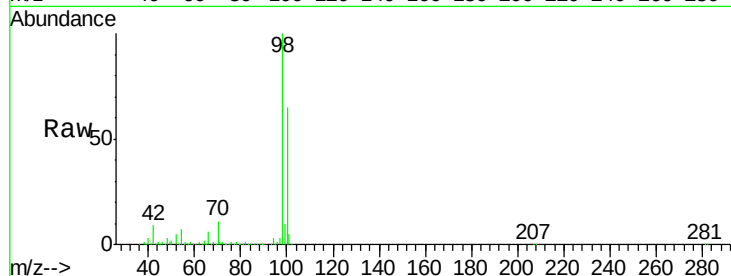
ClientSampleId :

Tot Ion: 98 Resp: 515832

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY002930.D (-1376) (-)

Ion 100.00 (99.70 to 100.70): VY002930.D (-1376) (-)

10.18

300000

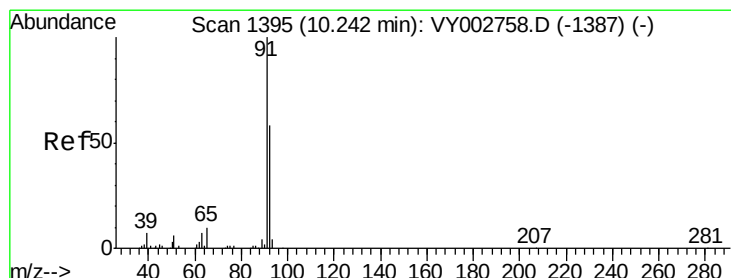
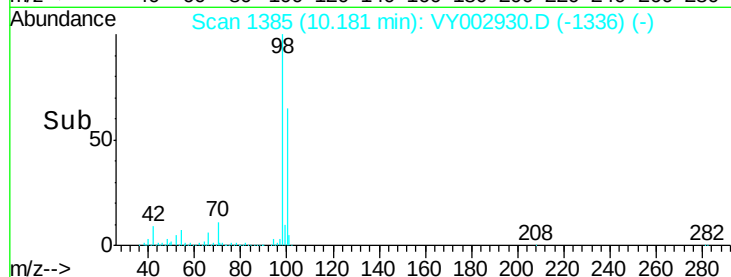
200000

100000

0

Time-->

10.10 10.20 10.30



#52

Toluene

Concen: 1.190 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. 0.00 min

Lab File: VY002930.D

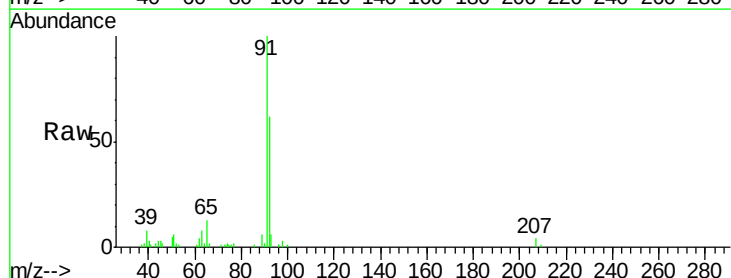
Acq: 18 Jun 2020 19:35

Tgt Ion: 92 Resp: 8518

Ion Ratio Lower Upper

92 100

91 171.2 138.5 207.7



Abundance Ion 92.00 (91.70 to 92.70): VY002930.D (-1346) (-)

Ion 91.00 (90.70 to 91.70): VY002930.D (-1346) (-)

10.24

10000

8000

6000

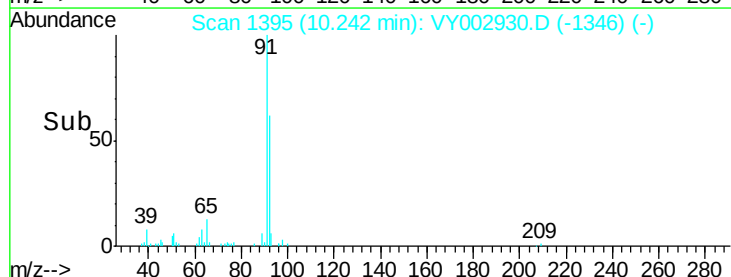
4000

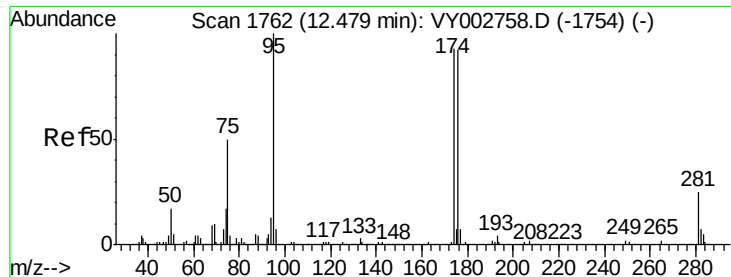
2000

0

Time-->

10.20 10.25 10.30

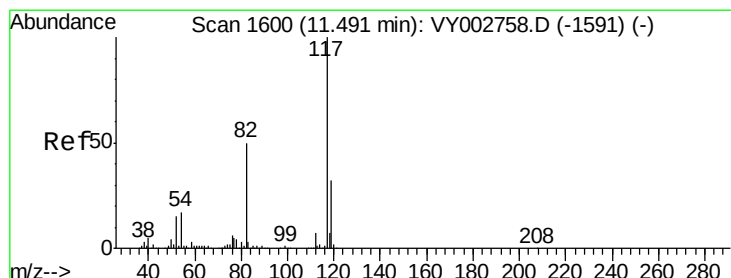
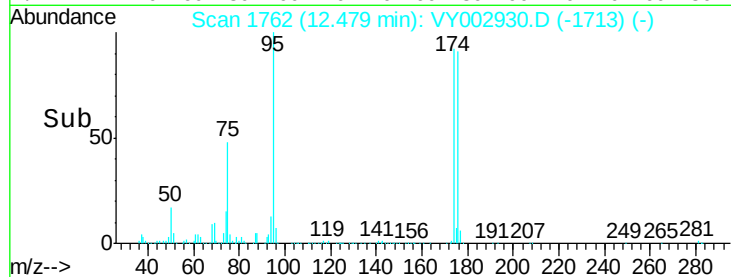
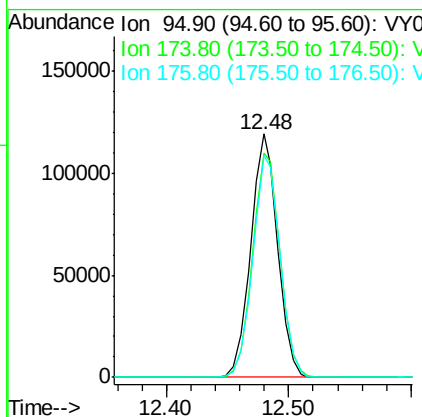
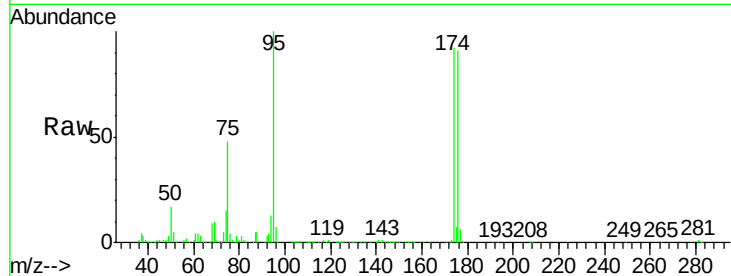




#62  
4-Bromofluorobenzene  
Concen: 51.260 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. 0.00 min  
Lab File: VY002930.D  
Acq: 18 Jun 2020 19:35

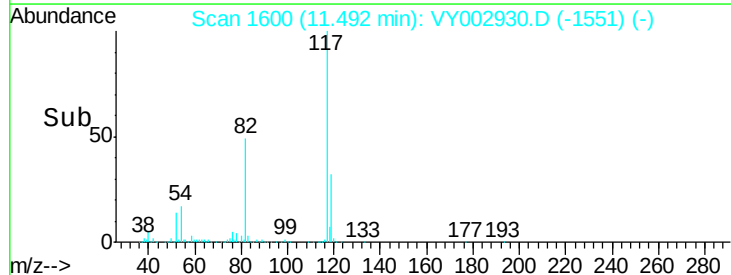
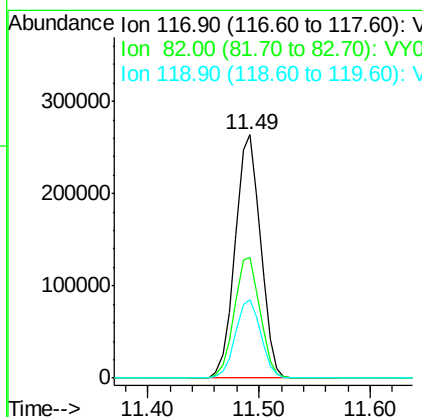
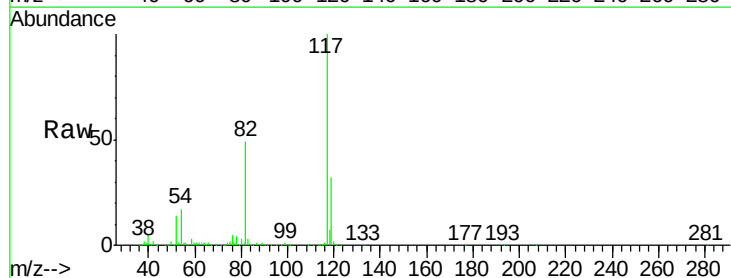
Instrument :  
MSVOA\_Y  
ClientSampleId :

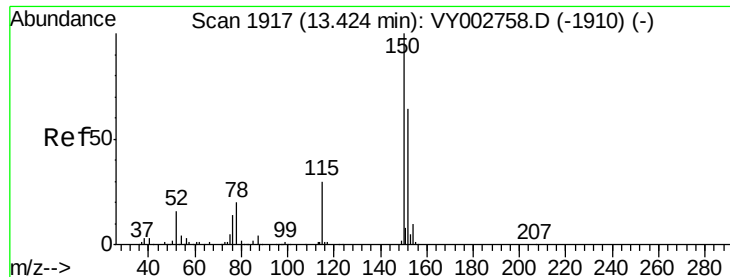
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 94.6  | 0.0   | 191.2 |
| 176     | 92.3  | 0.0   | 188.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY002930.D  
Acq: 18 Jun 2020 19:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.5  | 40.2  | 60.4  |
| 119     | 32.4  | 25.8  | 38.8  |



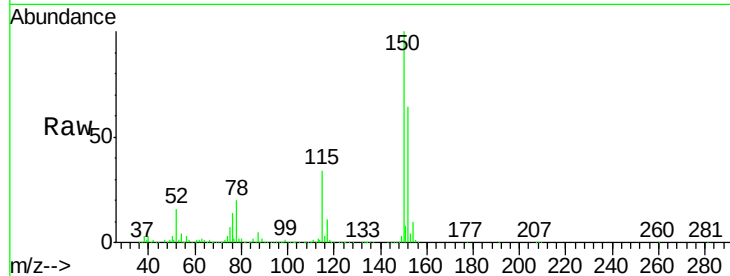


#72

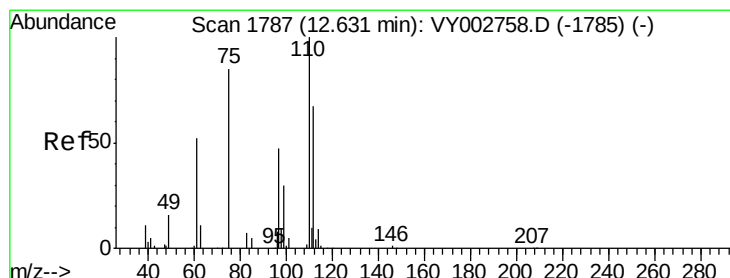
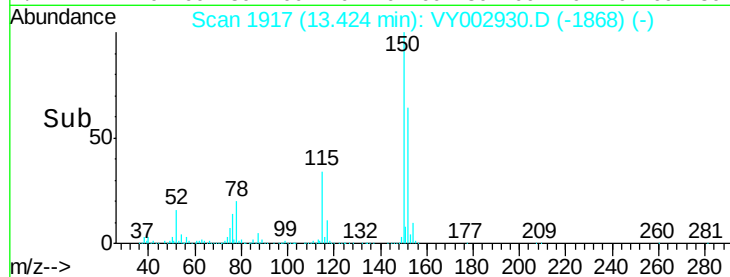
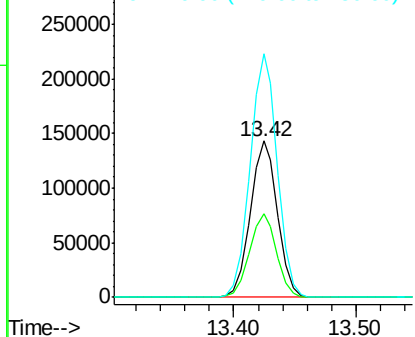
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY002930.D  
Acq: 18 Jun 2020 19:35

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.6  | 27.0  | 81.0  |
| 150     | 156.3 | 0.0   | 344.8 |



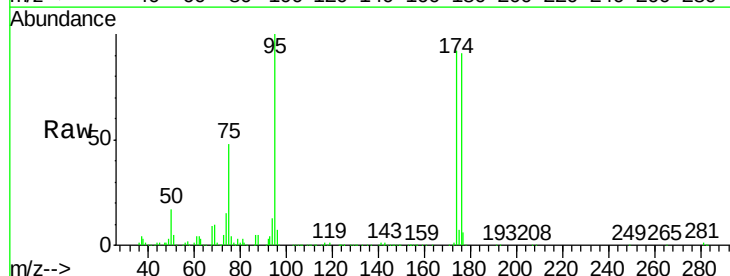
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



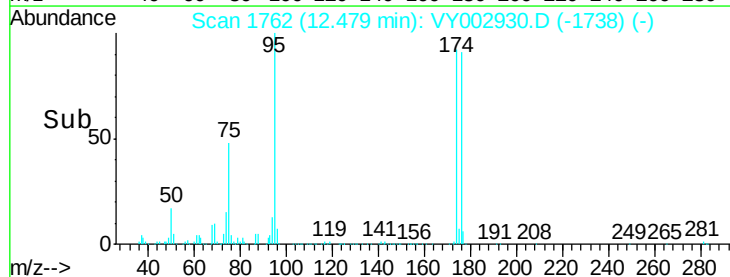
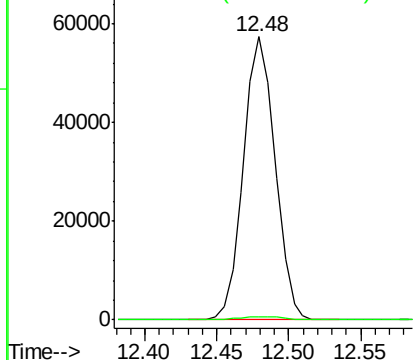
#76

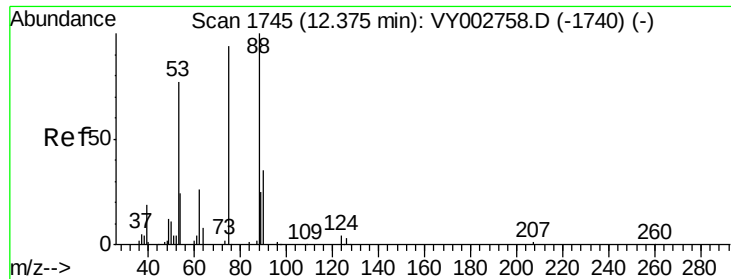
1,2,3-Trichloropropane  
Concen: 44.243 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY002930.D  
Acq: 18 Jun 2020 19:35

| Tgt 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: 83.353 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002930.D

Acq: 18 Jun 2020 19:35

Instrument :

MSVOA\_Y

ClientSampleId :

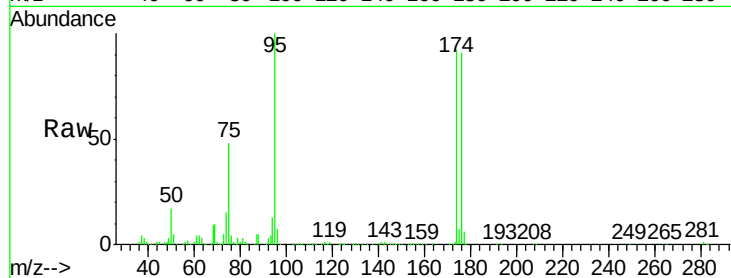
Tot Ion: 75 Resp: 87367

Ion Ratio Lower Upper

75 100

53 0.0 64.0 96.0#

89 0.1 37.4 56.2#



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

