

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072420\  
 Data File : VY003349.D  
 Acq On : 24 Jul 2020 22:02  
 Operator : SY/MD  
 Sample : L3436-17  
 Misc : 6.68G/5ML/MSVOA Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 17

Quant Time: Jul 25 01:44:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 437268   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 685393   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 576751   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 210270   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 216318   | 58.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 117.22% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 213535   | 54.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.28% |      |
| 50) Toluene-d8            | 10.18  | 98  | 812897   | 55.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.86% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 222610   | 42.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 84.04%  |      |

## Target Compounds

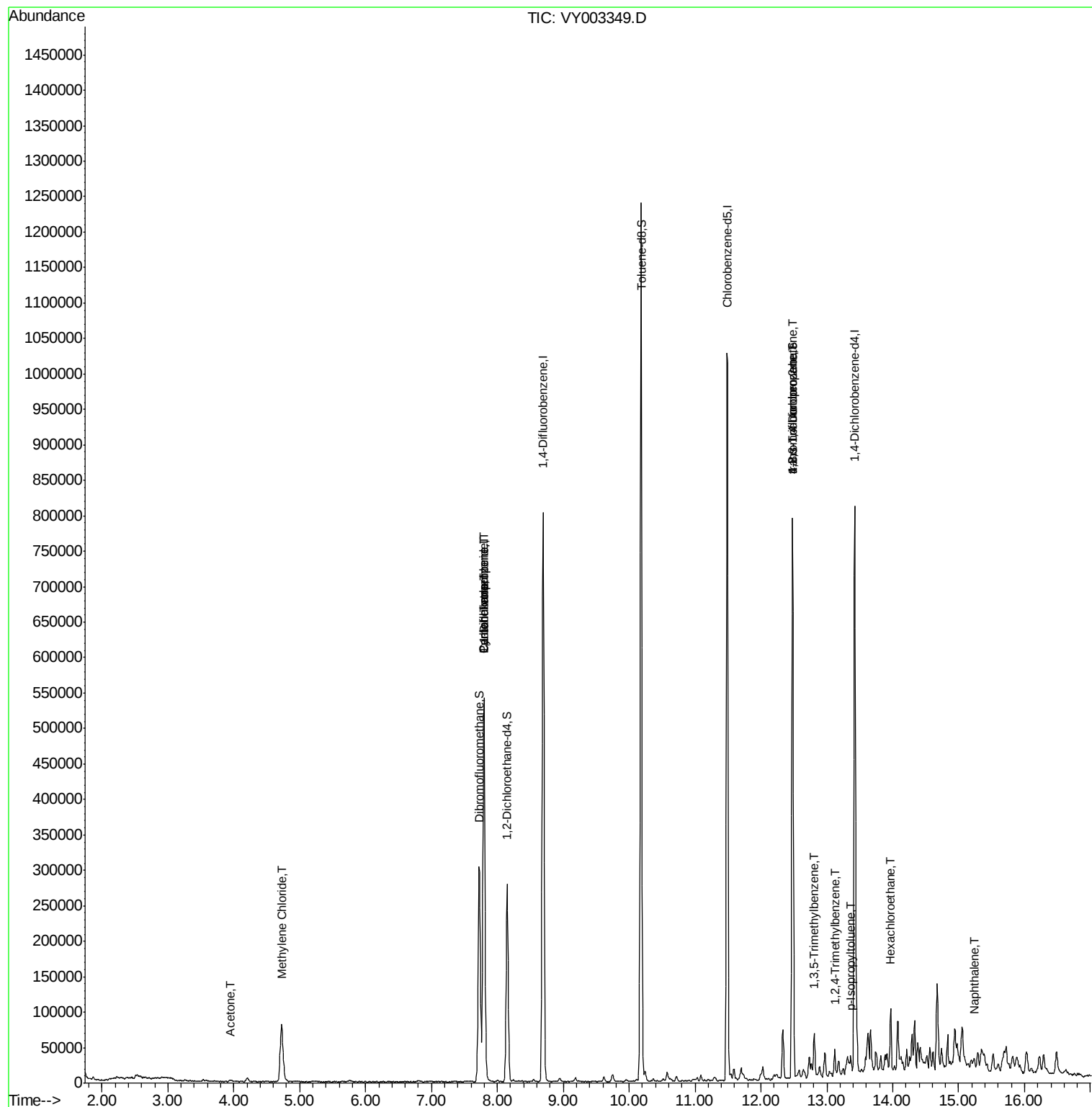
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 16) Acetone                    | 3.95  | 43  | 2762   | 3.350   | ug/l # | 86     |
| 20) Methylene Chloride         | 4.73  | 84  | 63132  | 10.926  | ug/l   | 96     |
| 31) Cyclohexane                | 7.80  | 56  | 8775   | 1.307   | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.80  | 75  | 31185  | 5.020   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117 | 39699  | 6.190   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 114717 | 61.634  | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105 | 23405  | 2.096   | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 114717 | 119.952 | ug/l # | 13     |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105 | 18205  | 1.620   | ug/l   | 91     |
| 86) p-Isopropyltoluene         | 13.37 | 119 | 13076  | 1.034   | ug/l   | 96     |
| 90) Hexachloroethane           | 13.97 | 117 | 4278   | 1.858   | ug/l # | 4      |
| 95) Naphthalene                | 15.23 | 128 | 8578   | 1.287   | ug/l # | 87     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY072420\  
Data File : VY003349.D  
Acq On : 24 Jul 2020 22:02  
Operator : SY/MD  
Sample : L3436-17  
Misc : 6.68G/5ML/MSVOA Y/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
17

Quant Time: Jul 25 01:44:17 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 10 13:18:03 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: VY003349.D

Acq: 24 Jul 2020 22:02

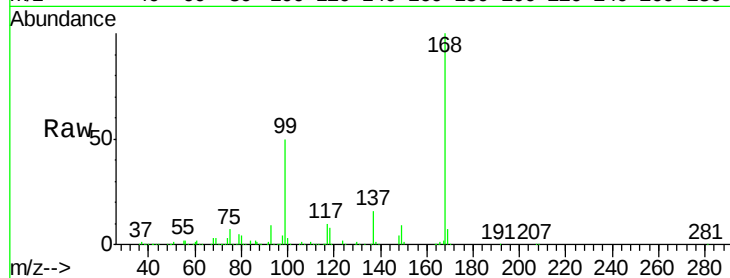
Instrument :  
MSVOA\_Y  
ClientSampleId :  
17

Tot Ion:168 Resp: 437268

Ion Ratio Lower Upper

168 100

99 49.8 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003349.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003349.D (-945) (-)

7.80

200000

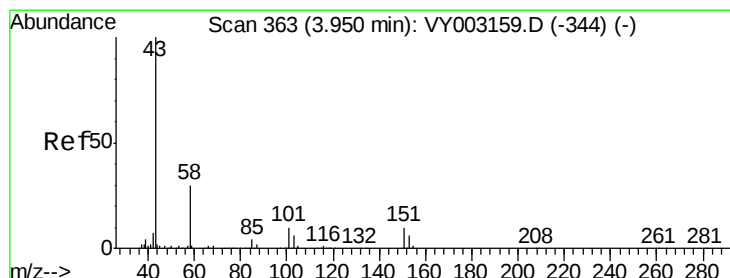
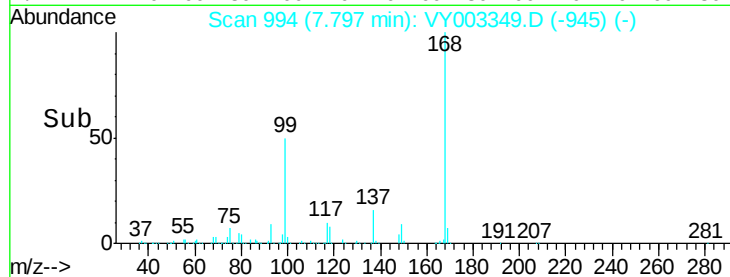
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 3.350 ug/l

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VY003349.D

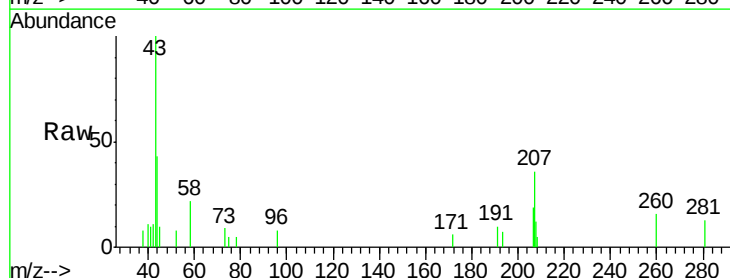
Acq: 24 Jul 2020 22:02

Tgt Ion: 43 Resp: 2762

Ion Ratio Lower Upper

43 100

58 22.1 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VY003349.D (-314) (-)

Ion 58.00 (57.70 to 58.70): VY003349.D (-314) (-)

3.95

1200

1000

800

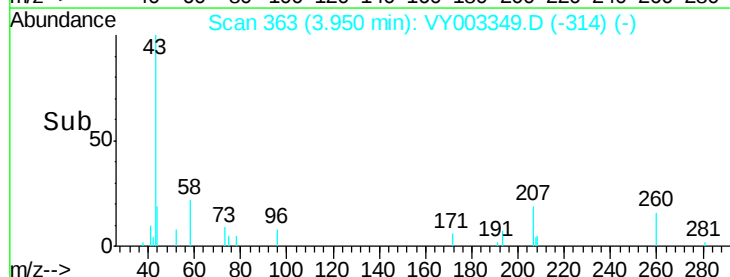
600

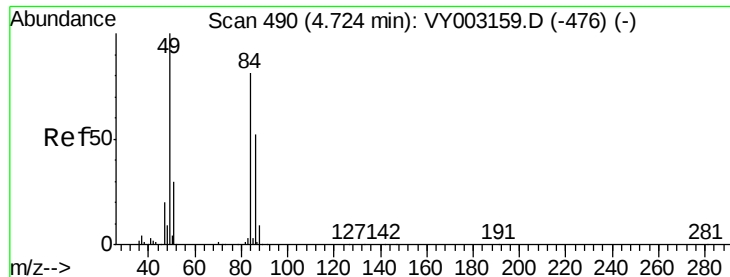
400

200

0

Time-->

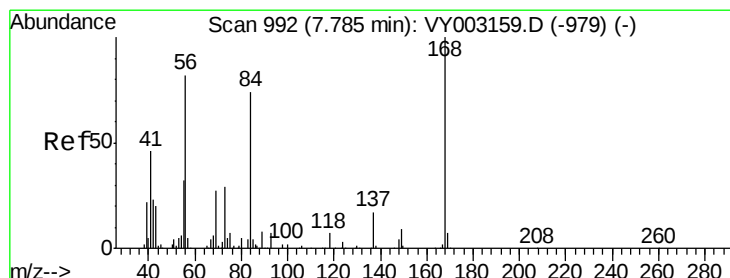
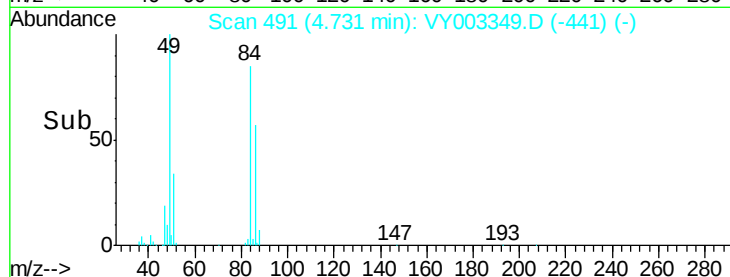
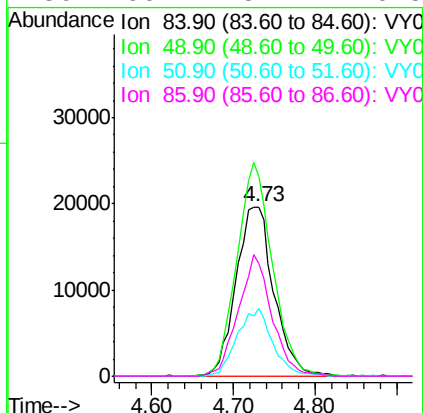
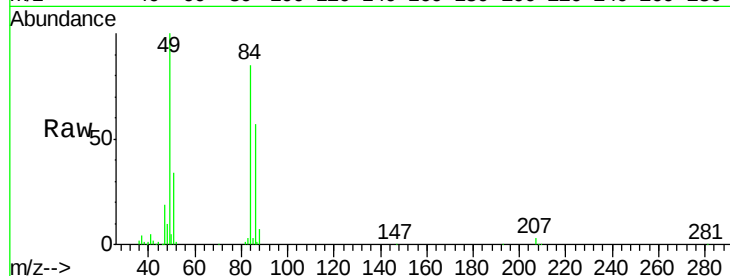




#20  
Methvlene Chloride  
Concen: 10.926 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. 0.01 min  
Lab File: VY003349.D  
Acq: 24 Jul 2020 22:02

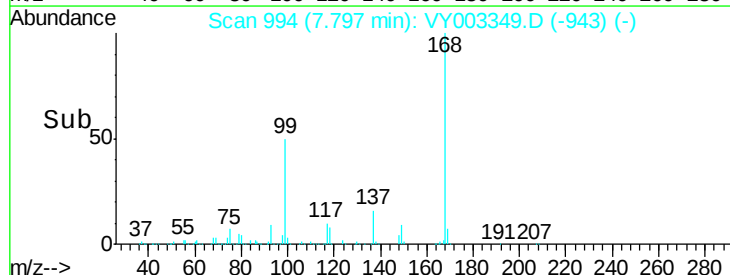
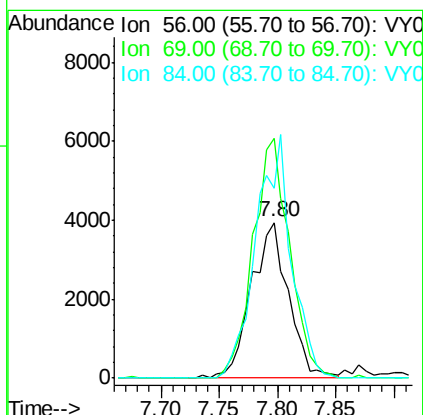
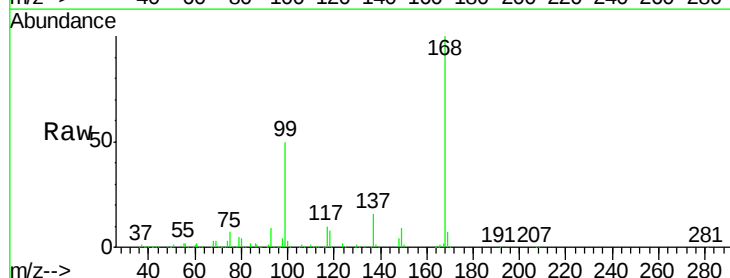
Instrument :  
MSVOA\_Y  
ClientSampleId :  
17

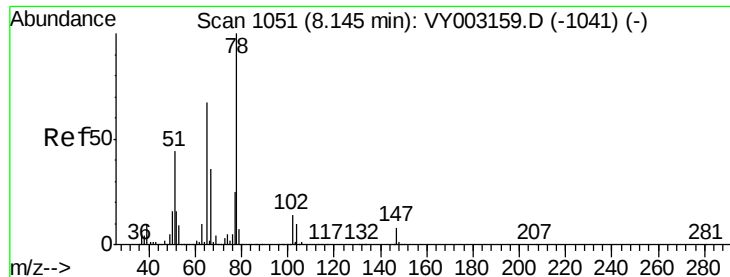
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 63132 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.1 | 98.2  | 147.4 |
| 51       | 40.1  | 29.8  | 44.6  |
| 86       | 66.7  | 51.2  | 76.8  |



#31  
Cyclohexane  
Concen: 1.307 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VY003349.D  
Acq: 24 Jul 2020 22:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8775   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 154.1 | 26.7  | 40.1#  |
| 84       | 121.7 | 72.3  | 108.5# |

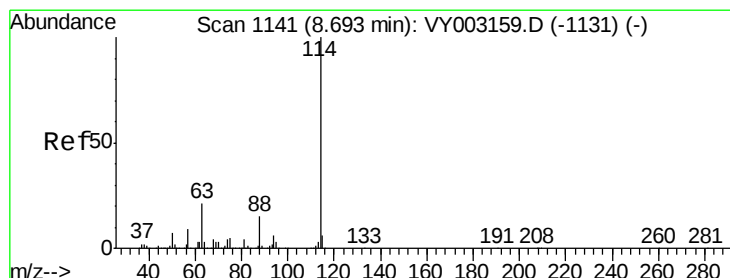
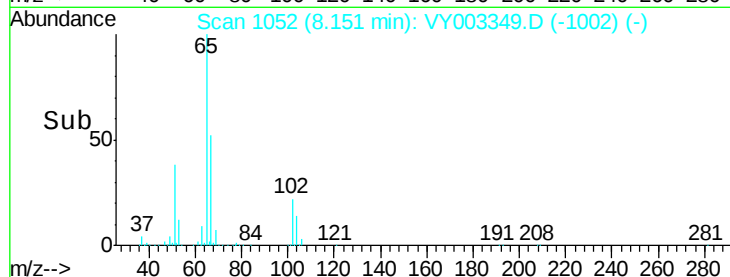
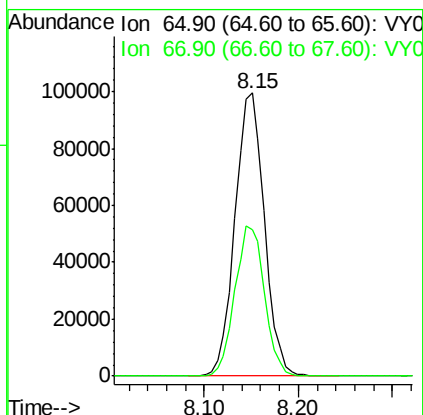
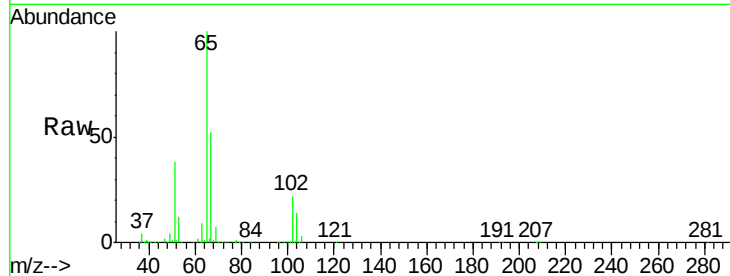




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.612 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. 0.01 min  
 Lab File: VY003349.D  
 Acq: 24 Jul 2020 22:02

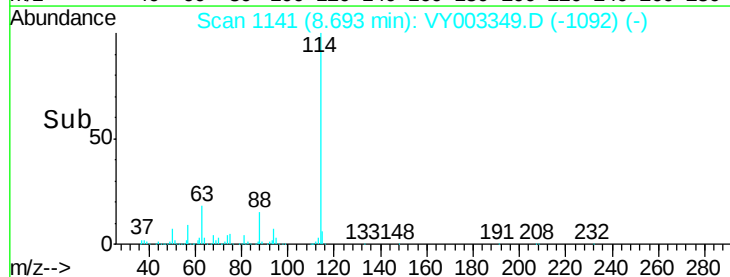
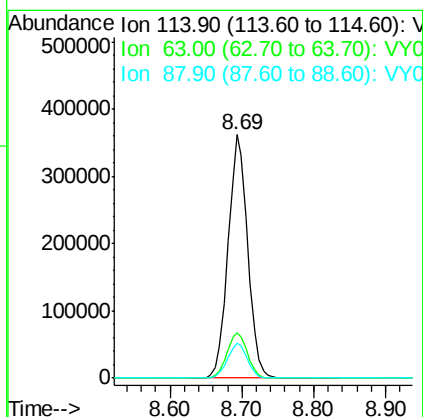
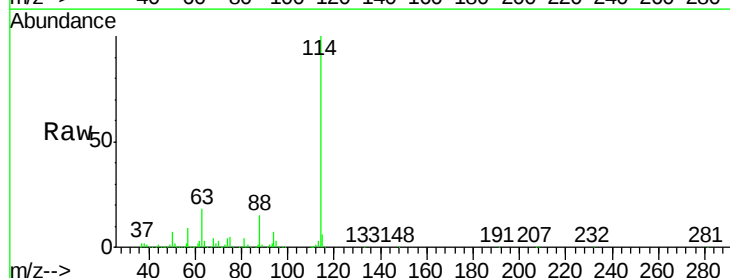
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 17

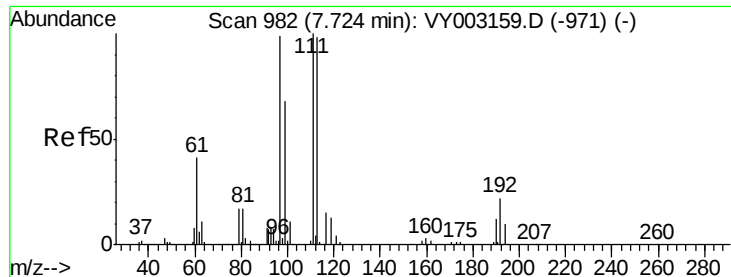
Tot Ion: 65 Resp: 216318  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY003349.D  
 Acq: 24 Jul 2020 22:02

Tgt Ion: 114 Resp: 685393  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 41.2  
 88 14.6 0.0 30.2

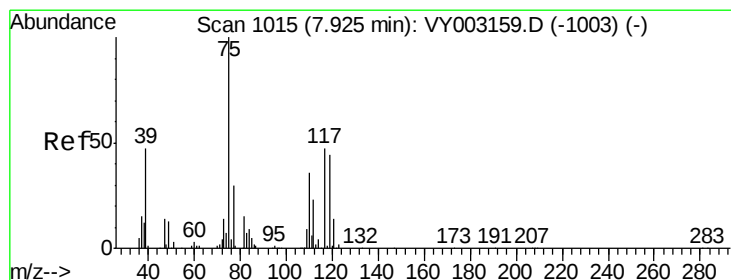
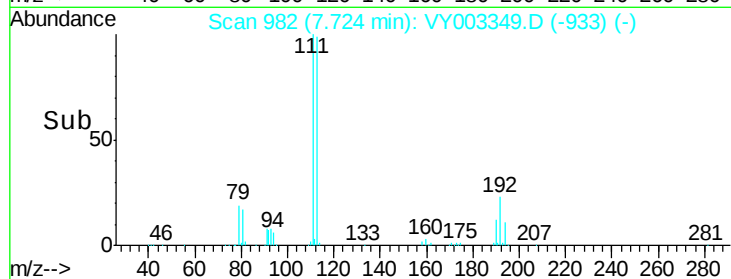
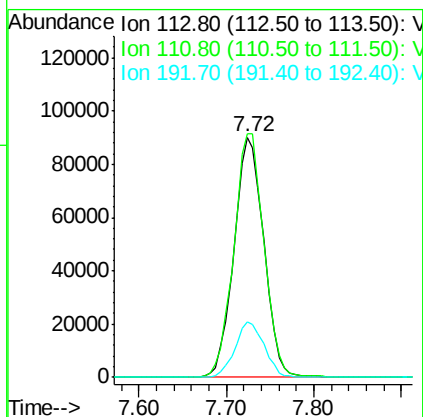
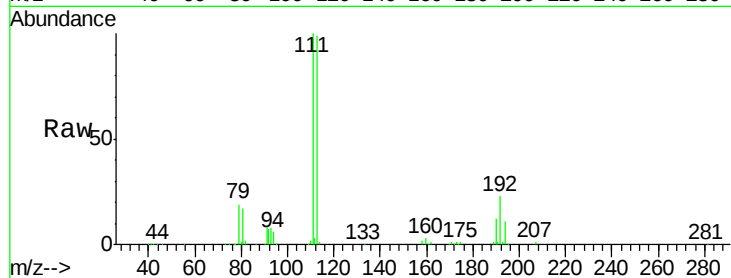




#35  
Dibromofluoromethane  
Concen: 54.138 ug/l  
RT: 7.72 min Scan# 982  
Delta R.T. 0.00 min  
Lab File: VY003349.D  
Acq: 24 Jul 2020 22:02

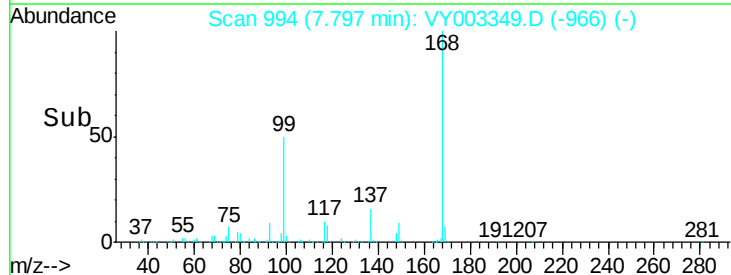
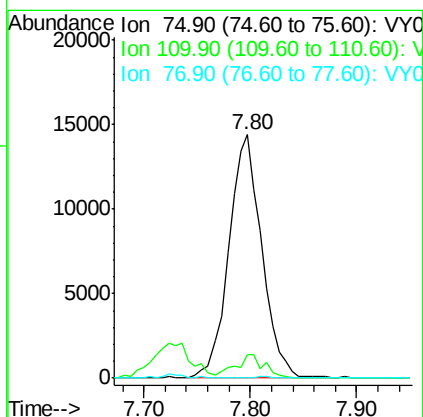
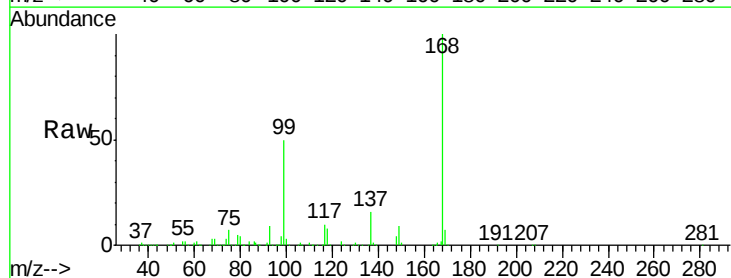
Instrument :  
MSVOA\_Y  
ClientSampleId :  
17

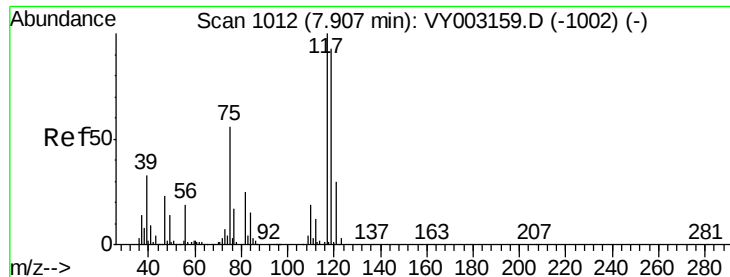
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 82.1  | 123.1 |
| 192     | 22.7  | 18.8  | 28.2  |



#36  
1,1-Dichloropropene  
Concen: 5.020 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.13 min  
Lab File: VY003349.D  
Acq: 24 Jul 2020 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 18.1  | 54.1# |
| 77      | 0.3   | 24.8  | 37.2# |





#38

Carbon Tetrachloride

Concen: 6.190 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003349.D

Acq: 24 Jul 2020 22:02

Instrument :

MSVOA\_Y

ClientSampleId :

17

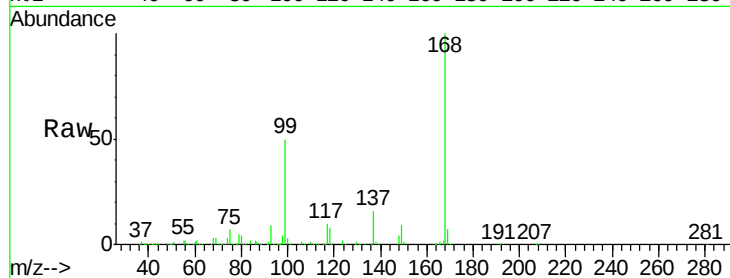
Tot Ion:117 Resp: 39699

Ion Ratio Lower Upper

117 100

119 3.9 74.5 111.7#

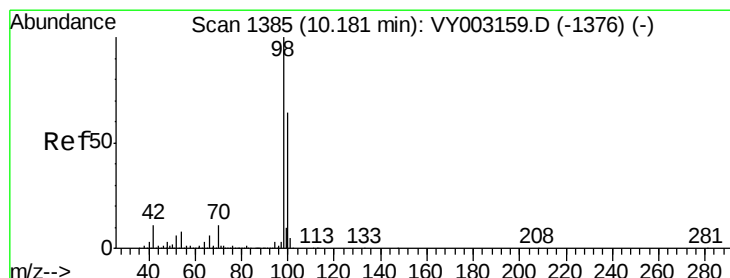
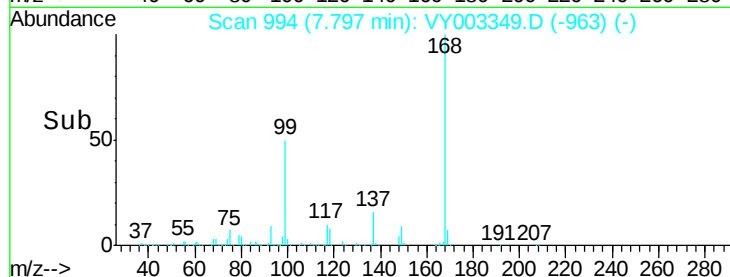
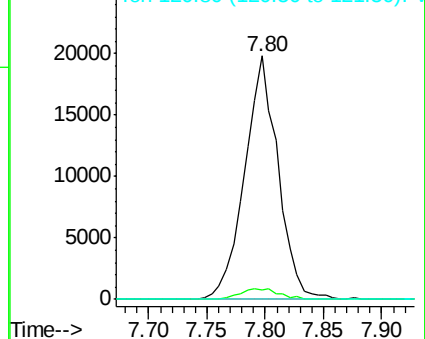
121 0.0 24.2 36.2#



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: 55.434 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY003349.D

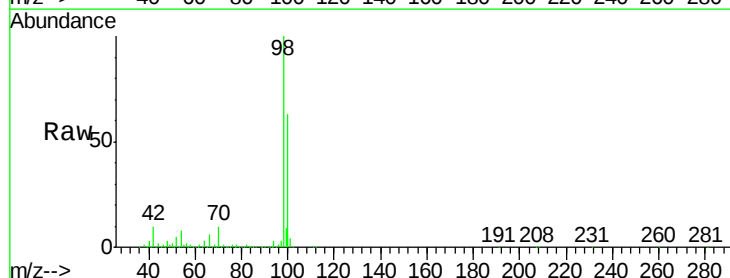
Acq: 24 Jul 2020 22:02

Tgt Ion: 98 Resp: 812897

Ion Ratio Lower Upper

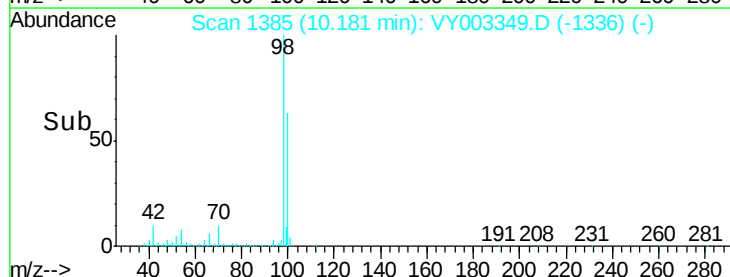
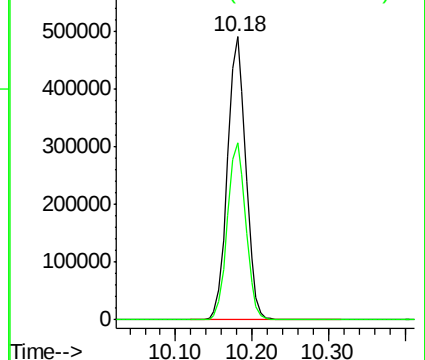
98 100

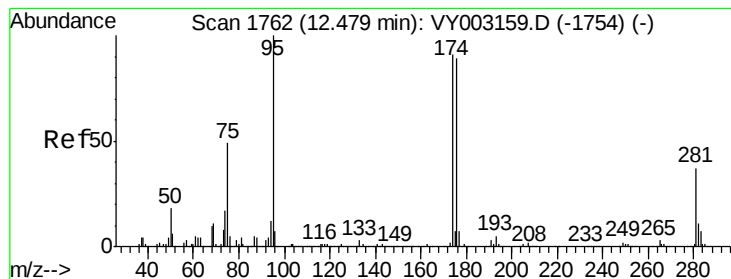
100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#62

4-Bromofluorobenzene

Concen: 42.021 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003349.D

Acq: 24 Jul 2020 22:02

Instrument :

MSVOA\_Y

ClientSampleId :

17

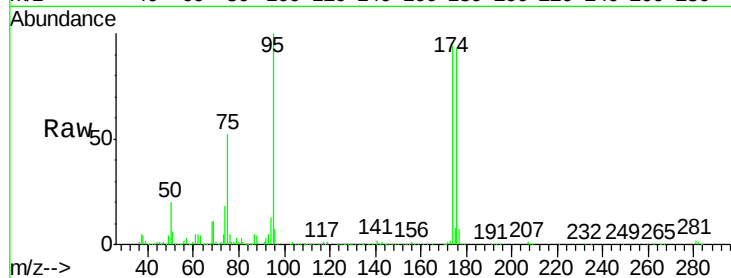
Tot Ion: 95 Resp: 222610

Ion Ratio Lower Upper

95 100

174 95.8 0.0 190.6

176 92.9 0.0 186.4

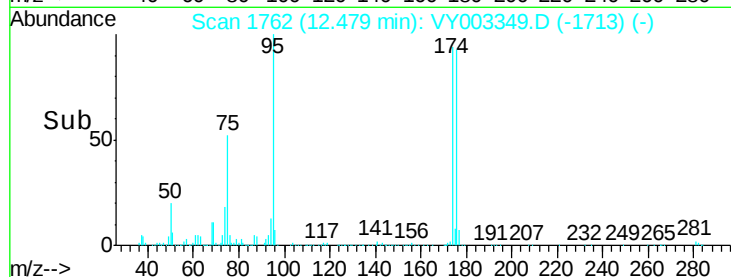


Abundance Ion 94.90 (94.60 to 95.60): VY003349.D (-1754) (-)

Ion 173.80 (173.50 to 174.50): VY003349.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY003349.D (-1754) (-)

Time-->

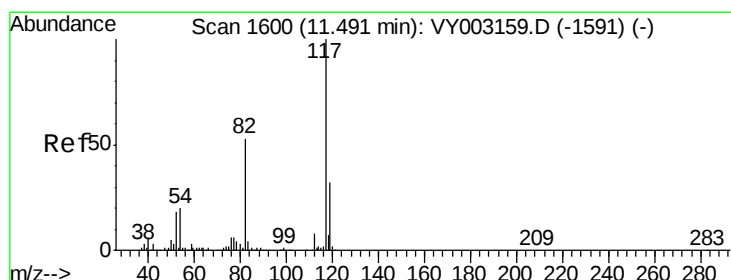


Abundance Ion 94.90 (94.60 to 95.60): VY003349.D (-1754) (-)

Ion 173.80 (173.50 to 174.50): VY003349.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY003349.D (-1754) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY003349.D

Acq: 24 Jul 2020 22:02

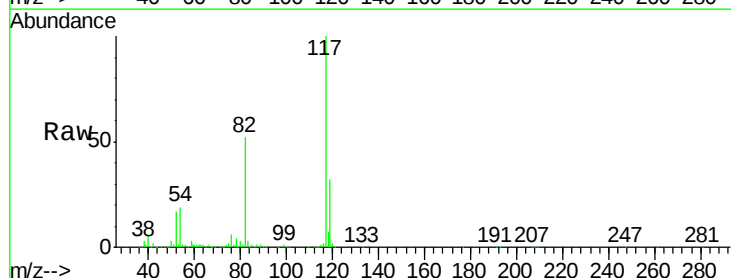
Tgt Ion: 117 Resp: 576751

Ion Ratio Lower Upper

117 100

82 51.8 42.0 63.0

119 32.0 25.5 38.3

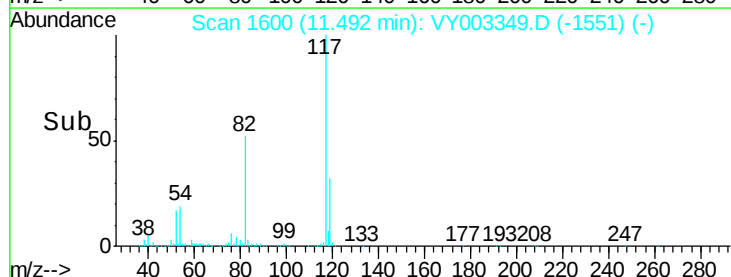


Abundance Ion 116.90 (116.60 to 117.60): VY003349.D (-1591) (-)

Ion 82.00 (81.70 to 82.70): VY003349.D (-1591) (-)

Ion 118.90 (118.60 to 119.60): VY003349.D (-1591) (-)

Time-->

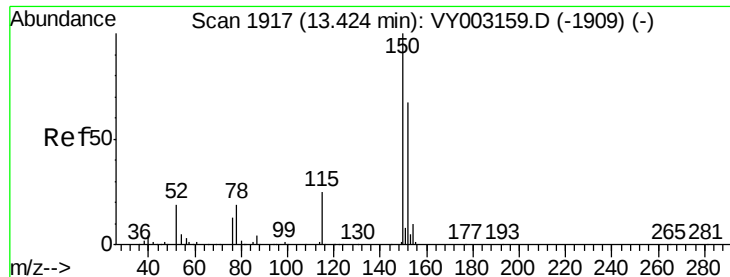


Abundance Ion 116.90 (116.60 to 117.60): VY003349.D (-1591) (-)

Ion 82.00 (81.70 to 82.70): VY003349.D (-1591) (-)

Ion 118.90 (118.60 to 119.60): VY003349.D (-1591) (-)

Time-->

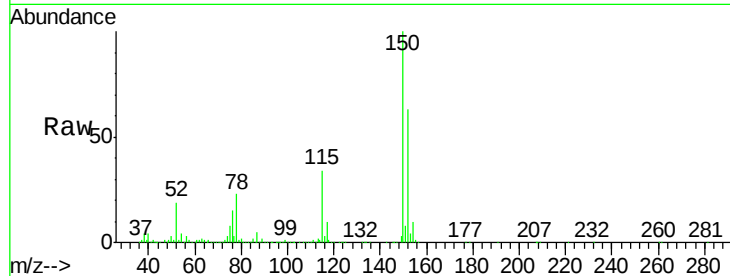


#72

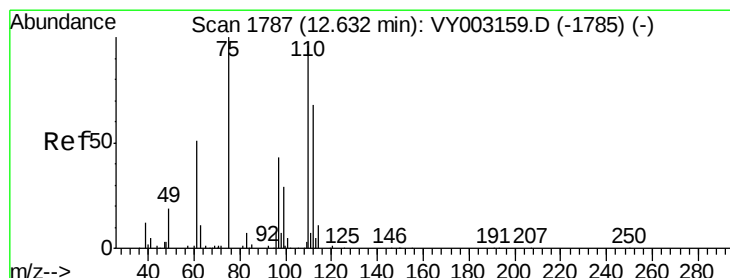
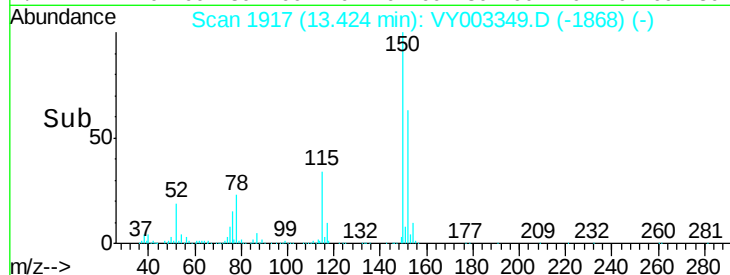
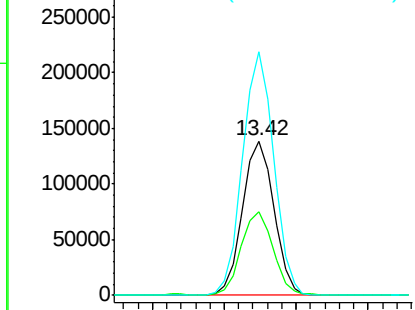
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY003349.D  
Acq: 24 Jul 2020 22:02

Instrument :  
MSVOA\_Y  
ClientSampleId :  
17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.9  | 26.9  | 80.7  |
| 150     | 155.9 | 0.0   | 338.0 |



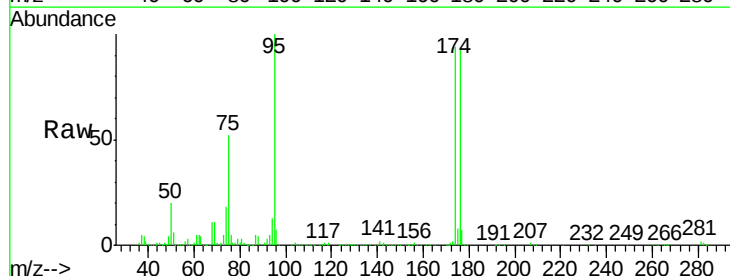
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



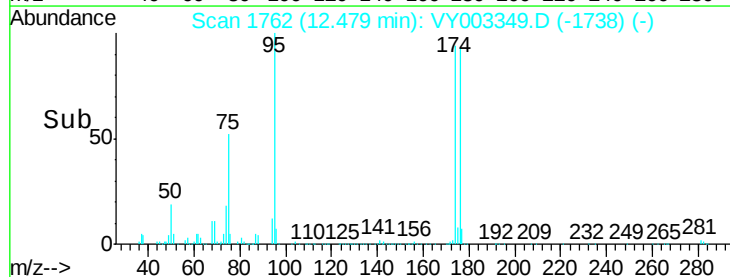
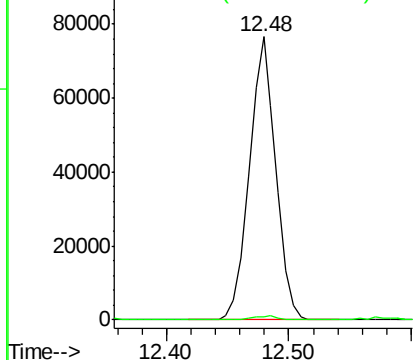
#76

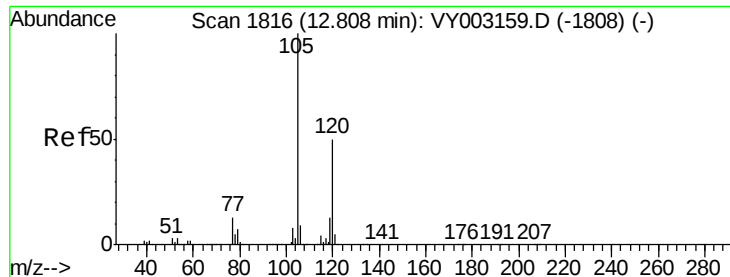
1,2,3-Trichloropropane  
Concen: 61.634 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY003349.D  
Acq: 24 Jul 2020 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.7   | 0.0   | 0.0   |



Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 77.00 (76.70 to 77.70): VY0

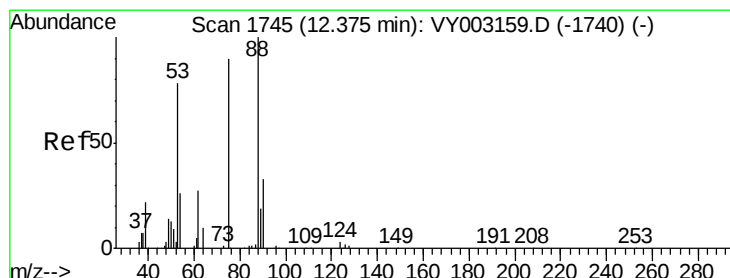
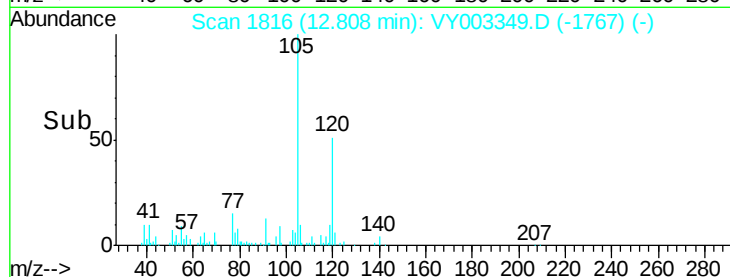
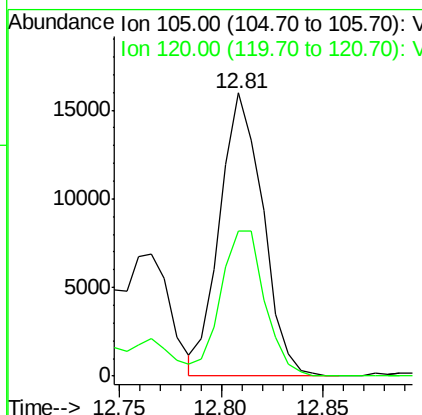
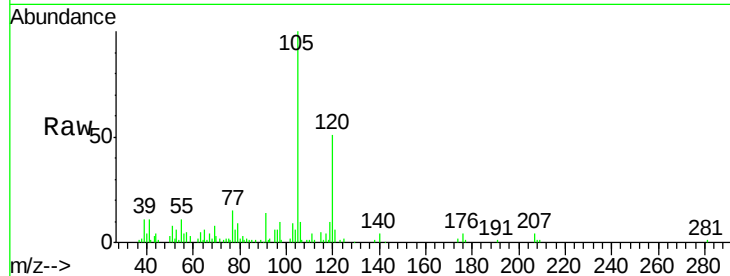




#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.096 ug/l  
 RT: 12.81 min Scan# 1816  
 Delta R.T. 0.00 min  
 Lab File: VY003349.D  
 Acq: 24 Jul 2020 22:02

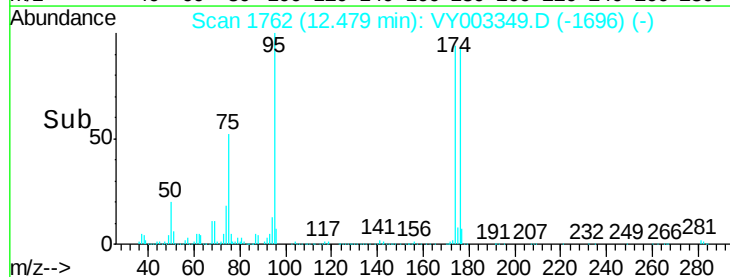
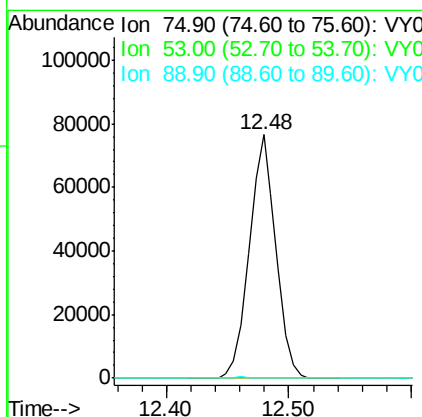
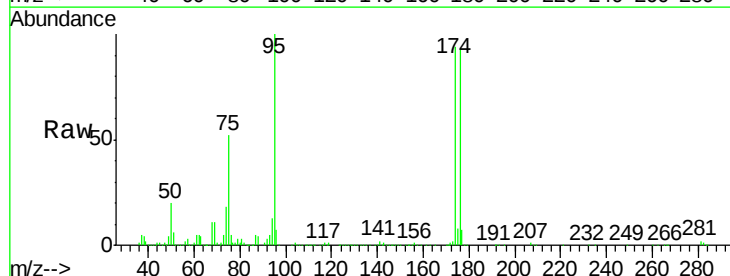
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 17

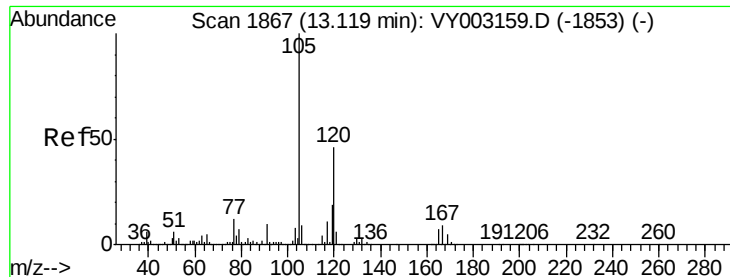
Tot Ion: 105 Resp: 23405  
 Ion Ratio Lower Upper  
 105 100  
 120 52.5 24.9 74.6



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 119.952 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. 0.10 min  
 Lab File: VY003349.D  
 Acq: 24 Jul 2020 22:02

Tgt Ion: 75 Resp: 114717  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.0 108.0#  
 89 0.0 37.3 55.9#

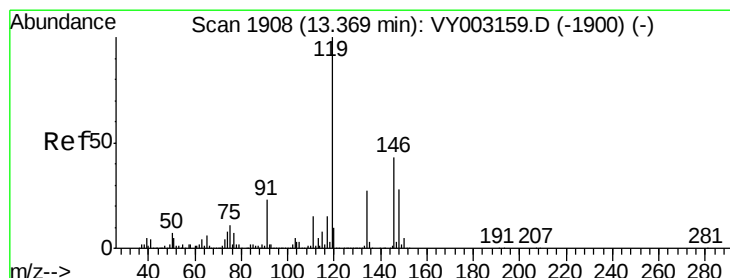
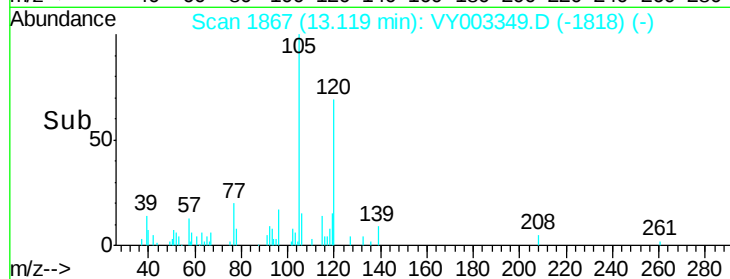
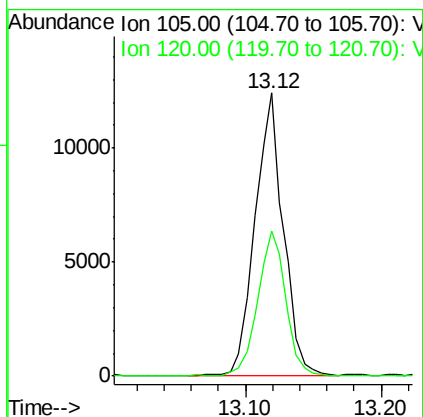
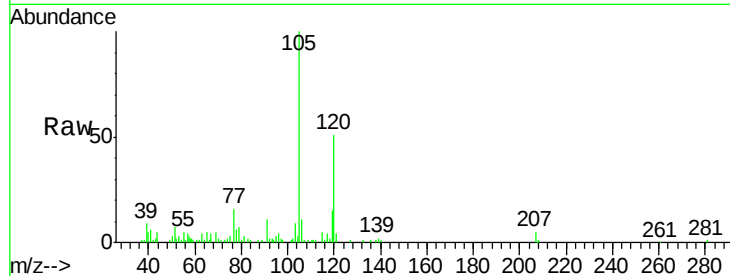




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.620 ug/l  
 RT: 13.12 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VY003349.D  
 Acq: 24 Jul 2020 22:02

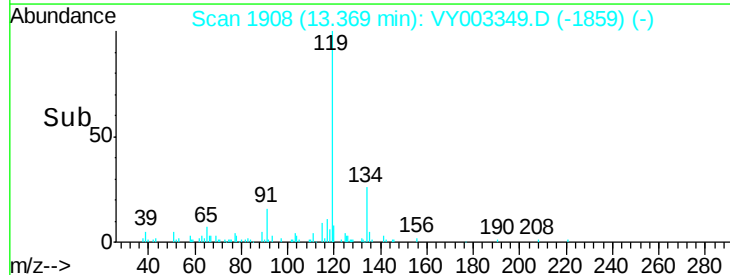
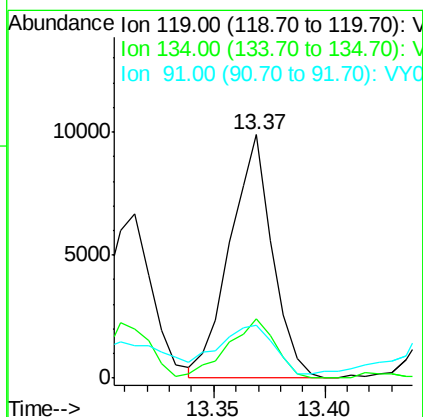
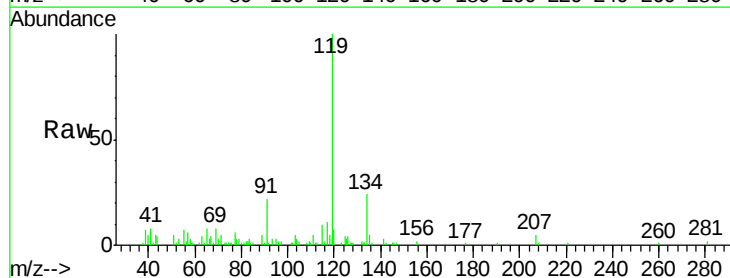
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 17

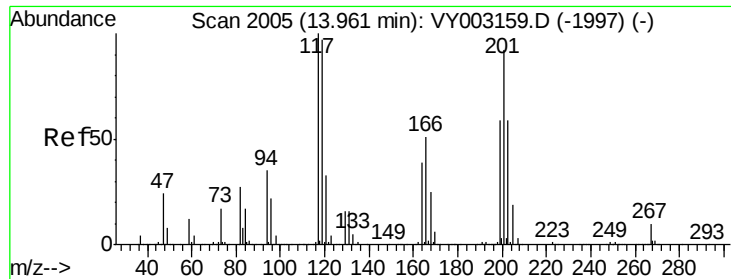
Tot Ion:105 Resp: 18205  
 Ion Ratio Lower Upper  
 105 100  
 120 50.6 22.5 67.5



#86  
 p-Isopropyltoluene  
 Concen: 1.034 ug/l  
 RT: 13.37 min Scan# 1908  
 Delta R.T. 0.00 min  
 Lab File: VY003349.D  
 Acq: 24 Jul 2020 22:02

Tgt Ion:119 Resp: 13076  
 Ion Ratio Lower Upper  
 119 100  
 134 27.6 13.4 40.2  
 91 26.1 11.2 33.6





#90

Hexachloroethane

Concen: 1.858 ug/l

RT: 13.97 min Scan# 2006

Delta R.T. 0.01 min

Lab File: VY003349.D

Acq: 24 Jul 2020 22:02

Instrument :

MSVOA\_Y

ClientSampleId :

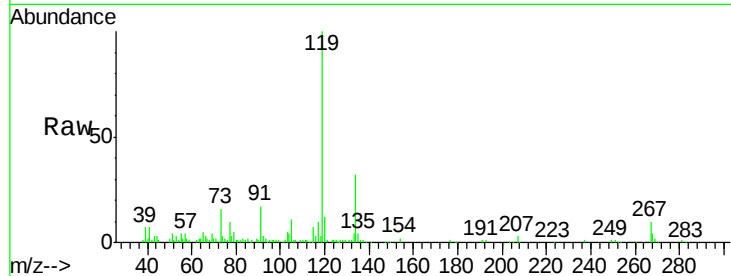
17

Tot Ion:117 Resp: 4278

Ion Ratio Lower Upper

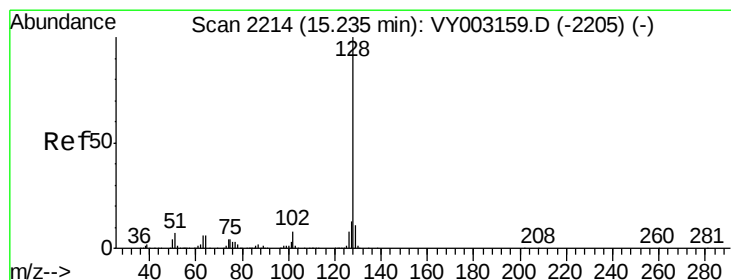
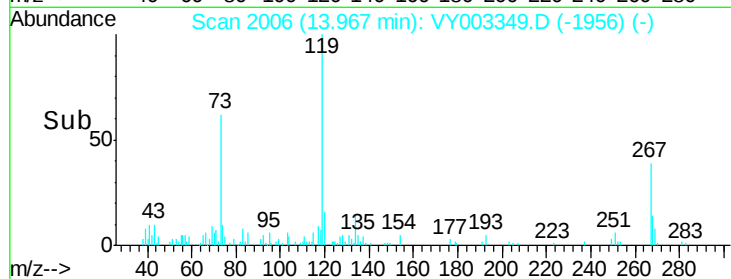
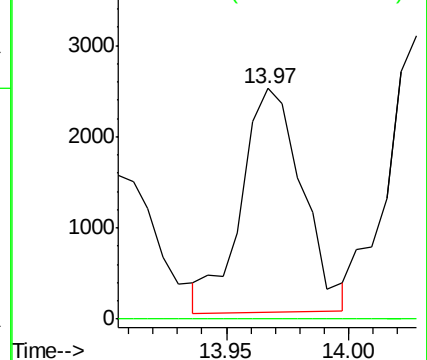
117 100

201 0.0 45.1 135.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.287 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY003349.D

Acq: 24 Jul 2020 22:02

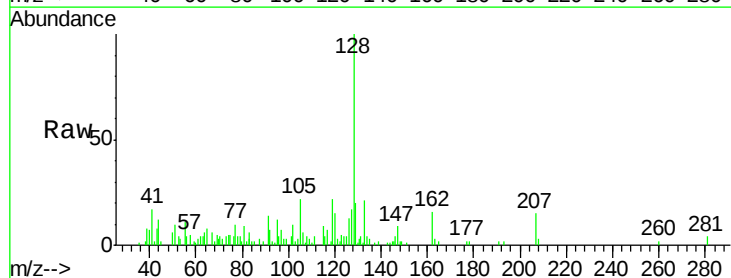
Tgt Ion:128 Resp: 8578

Ion Ratio Lower Upper

128 100

127 20.2 10.9 16.3#

129 14.6 9.0 13.6#



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

