

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072420\  
 Data File : VY003339.D  
 Acq On : 24 Jul 2020 18:03  
 Operator : SY/MD  
 Sample : L3436-07  
 Misc : 6.70G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 7

Quant Time: Jul 25 01:40:36 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  | 452231   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 708707   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 593961   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 221910   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.14  | 65   | 218489   | 57.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.48% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 213769   | 52.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.82% |          |
| 50) Toluene-d8              | 10.18 | 98   | 830736   | 54.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.58% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 231315   | 42.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.46%  |          |

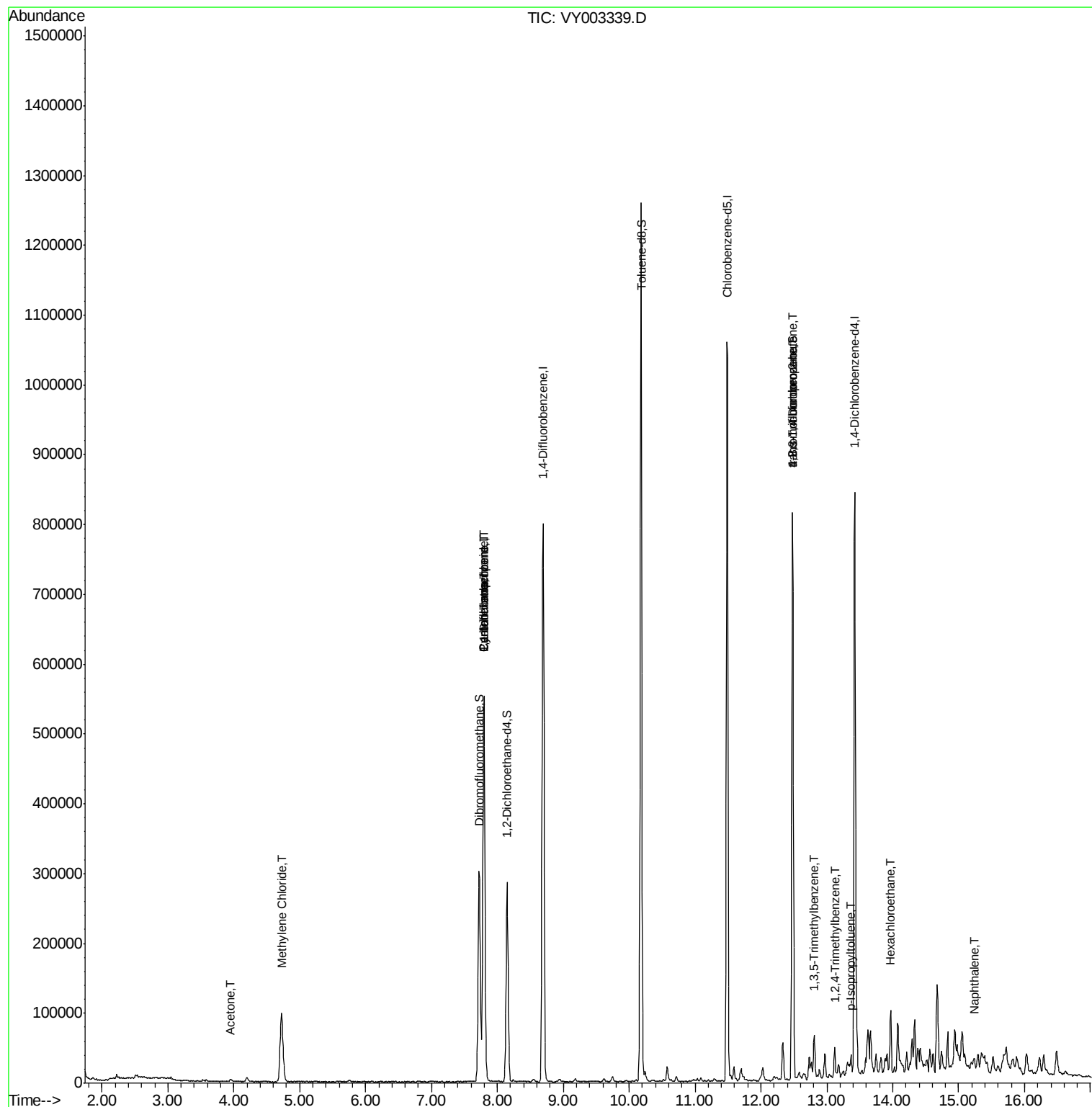
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 3.95  | 43   | 4129     | 4.843   | ug/l   | 97     |
| 20) Methylene Chloride         | 4.72  | 84   | 77616    | 14.153  | ug/l   | 93     |
| 31) Cyclohexane                | 7.79  | 56   | 8227     | 1.185   | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 30791    | 4.794   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 40861    | 6.162   | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 116513   | 59.316  | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 26989    | 2.290   | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 116513   | 115.440 | ug/l # | 13     |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 22502    | 1.897   | ug/l   | 97     |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 14726    | 1.103   | ug/l   | 97     |
| 90) Hexachloroethane           | 13.97 | 117  | 4379     | 1.802   | ug/l # | 8      |
| 95) Naphthalene                | 15.23 | 128  | 12411    | 1.765   | ug/l   | 97     |

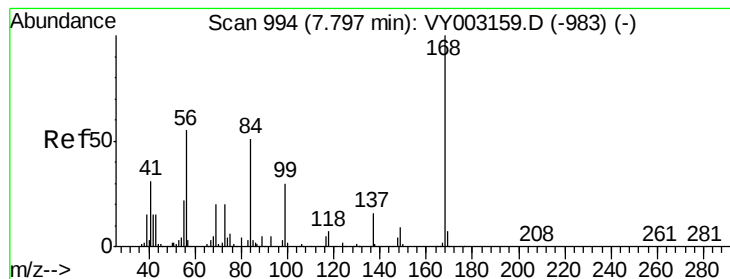
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
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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: VY003339.D

Acq: 24 Jul 2020 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

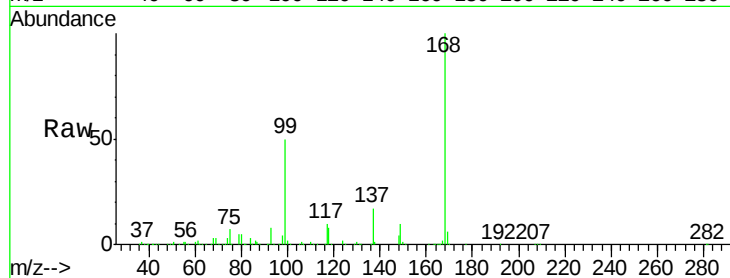
7

Tot Ion:168 Resp: 452231

Ion Ratio Lower Upper

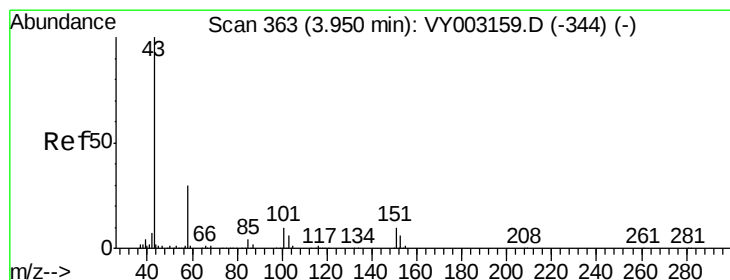
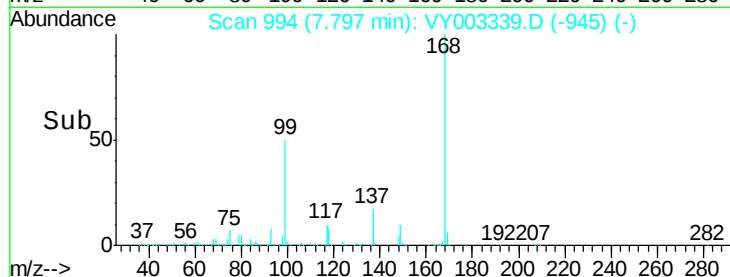
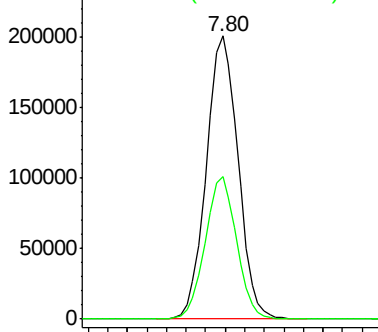
168 100

99 50.2 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY0

Ion 98.90 (98.60 to 99.60): VY0



#16

Acetone

Concen: 4.843 ug/l

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VY003339.D

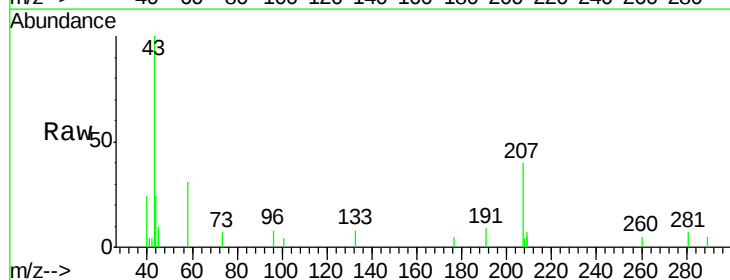
Acq: 24 Jul 2020 18:03

Tgt Ion: 43 Resp: 4129

Ion Ratio Lower Upper

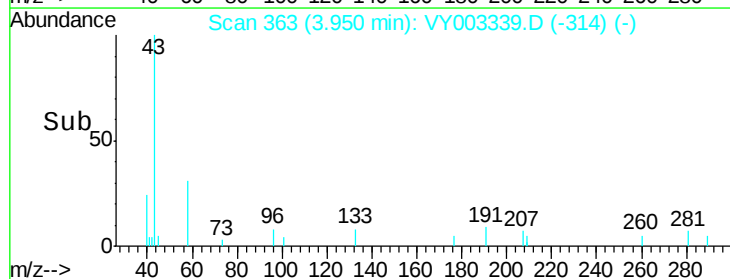
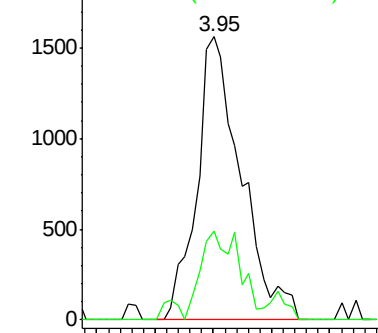
43 100

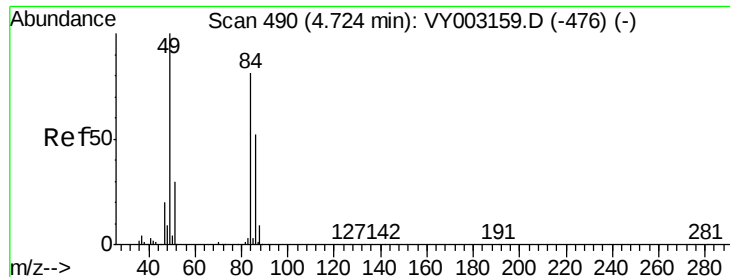
58 31.2 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

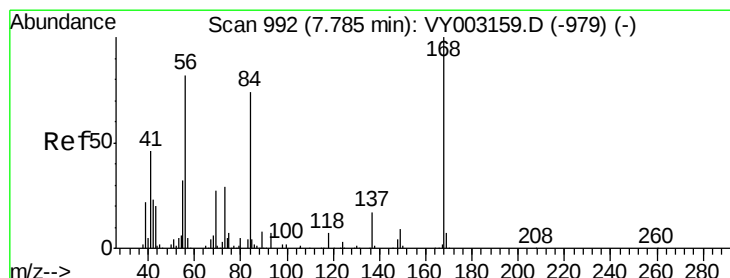
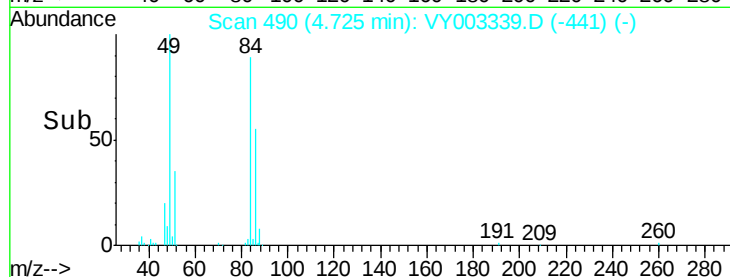
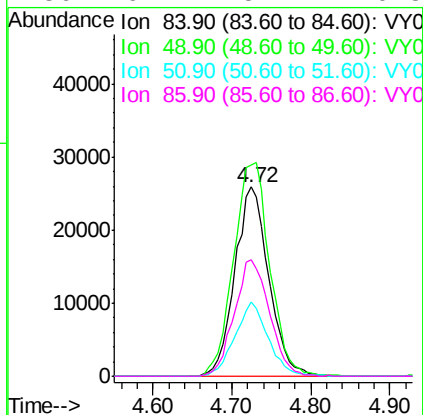
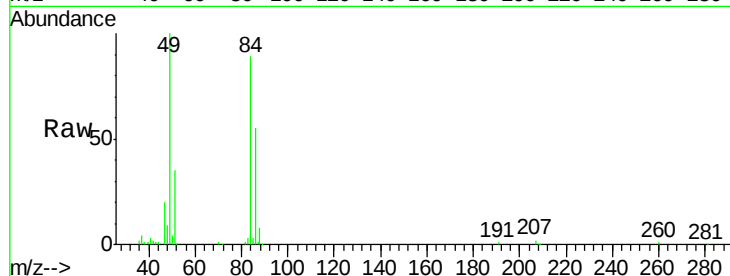




#20  
Methylene Chloride  
Concen: 14.153 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

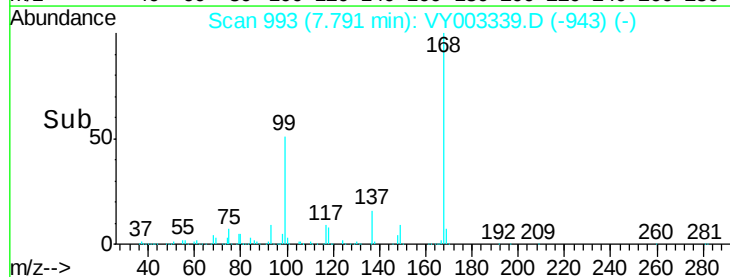
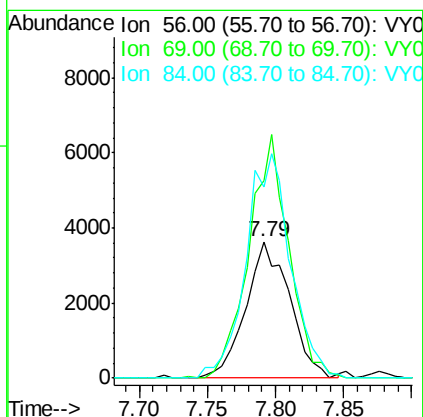
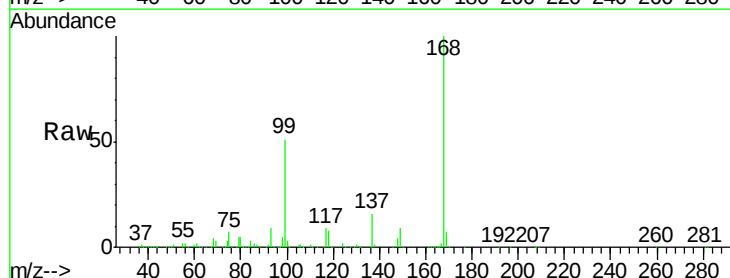
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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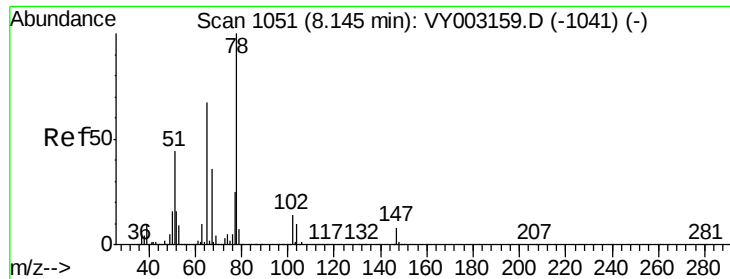
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 77616 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 112.0 | 98.2  | 147.4 |
| 51       | 39.1  | 29.8  | 44.6  |
| 86       | 61.7  | 51.2  | 76.8  |



#31  
Cyclohexane  
Concen: 1.185 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8227   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 142.7 | 26.7  | 40.1#  |
| 84       | 139.4 | 72.3  | 108.5# |

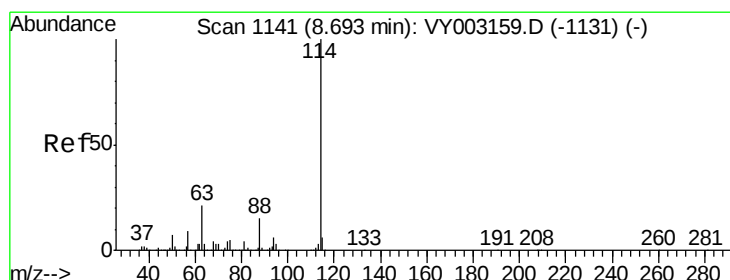
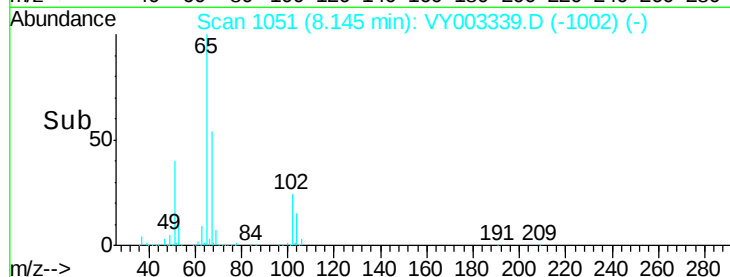
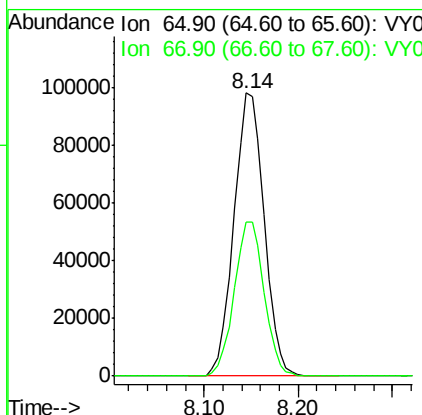
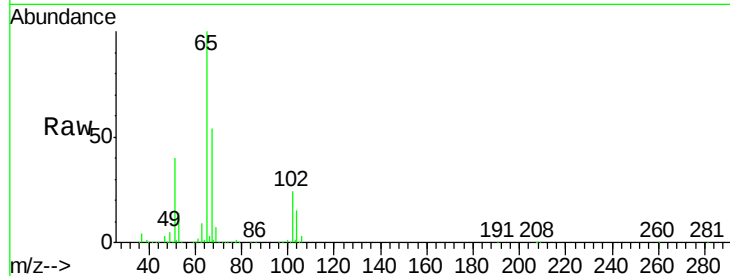




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.241 ug/l  
 RT: 8.14 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VY003339.D  
 Acq: 24 Jul 2020 18:03

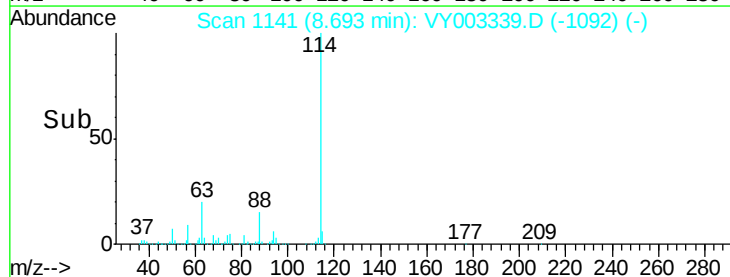
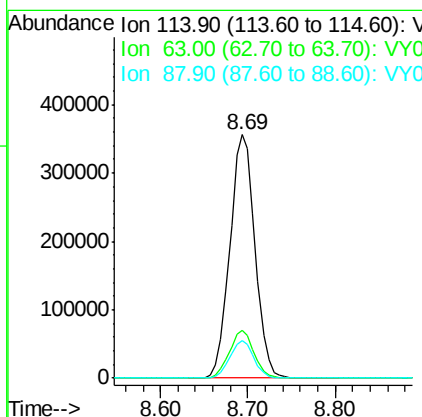
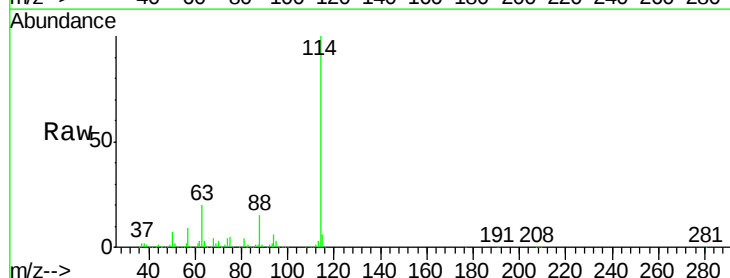
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
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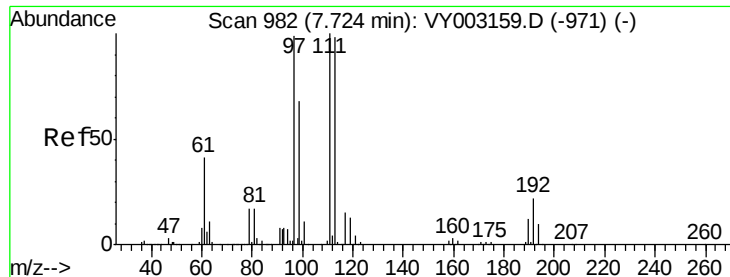
Tot Ion: 65 Resp: 218489  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY003339.D  
 Acq: 24 Jul 2020 18:03

Tgt Ion: 114 Resp: 708707  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 41.2  
 88 15.2 0.0 30.2

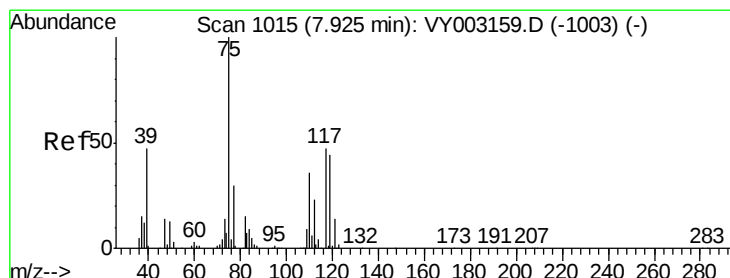
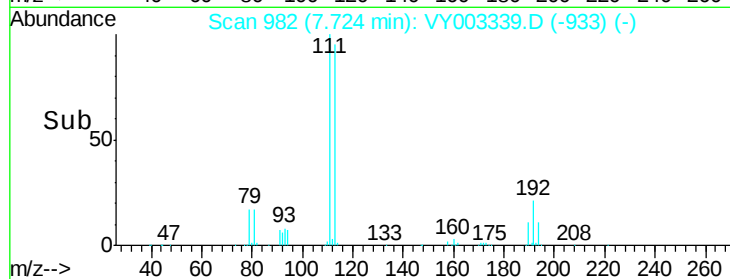
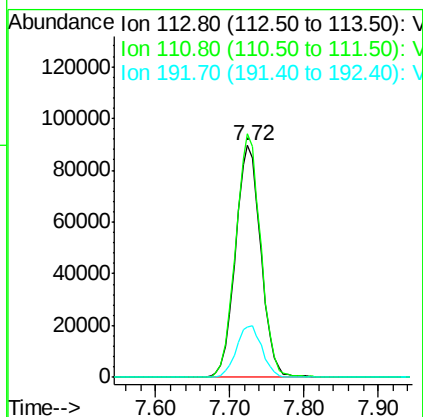
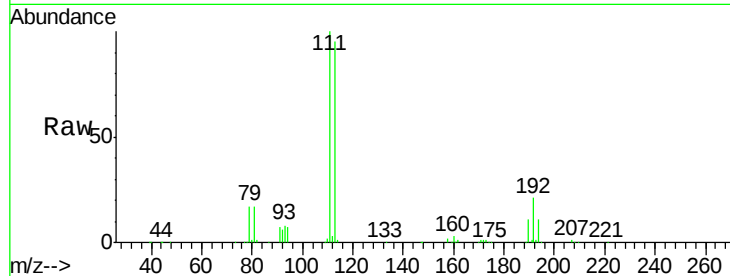




#35  
Dibromofluoromethane  
Concen: 52.414 ug/l  
RT: 7.72 min Scan# 982  
Delta R.T. 0.00 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

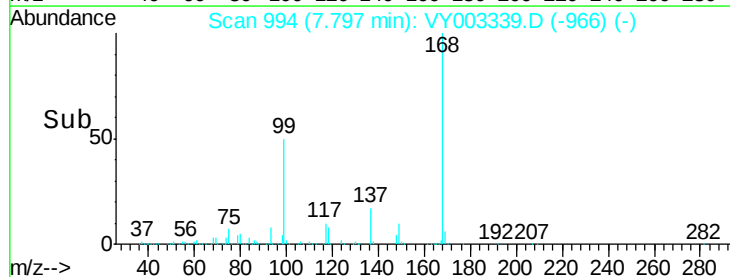
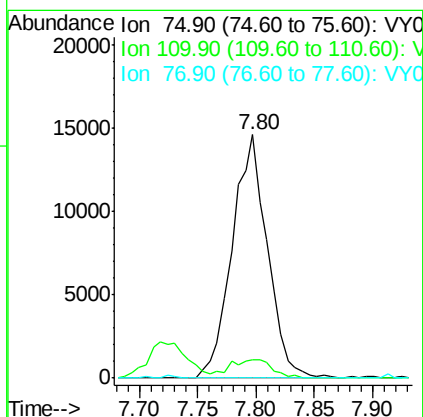
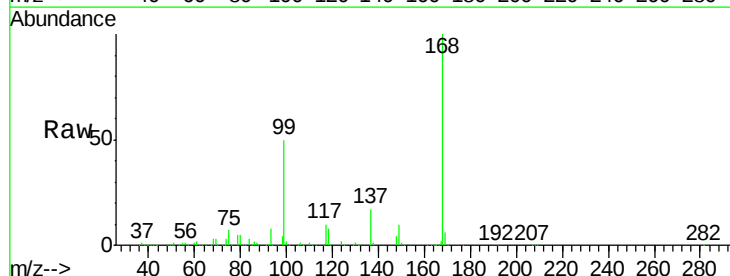
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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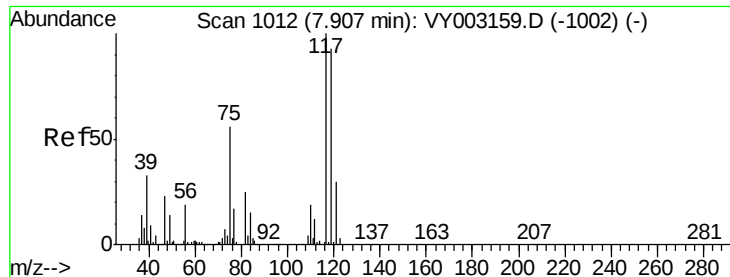
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.1  | 123.1 |
| 192     | 22.5  | 18.8  | 28.2  |



#36  
1,1-Dichloropropene  
Concen: 4.794 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.13 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 18.1  | 54.1# |
| 77      | 0.0   | 24.8  | 37.2# |

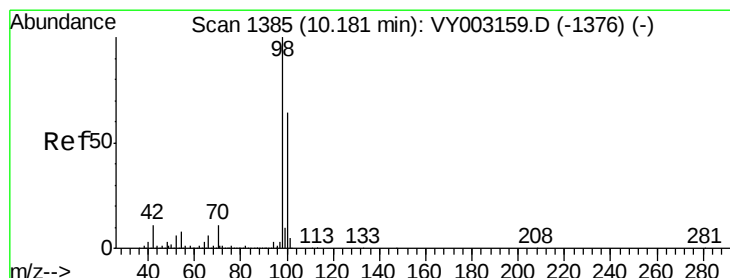
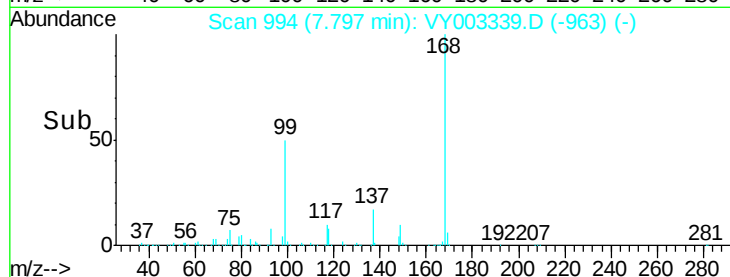
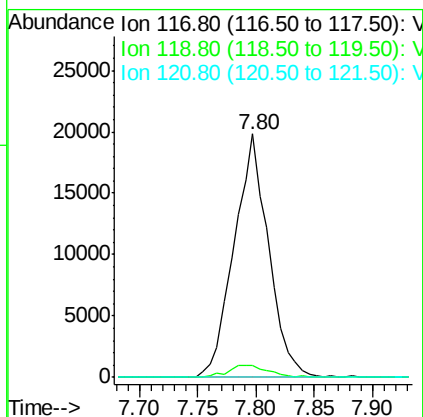
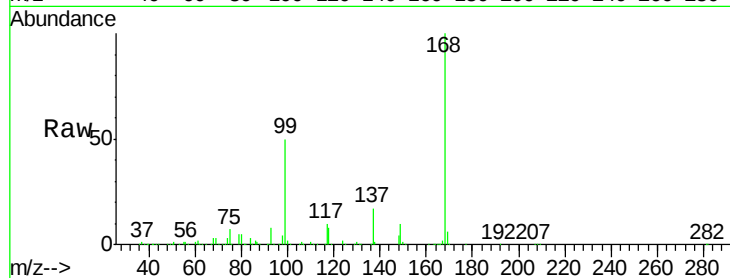




#38  
Carbon Tetrachloride  
Concen: 6.162 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.11 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

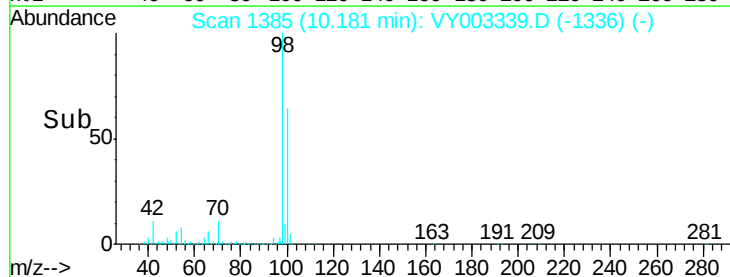
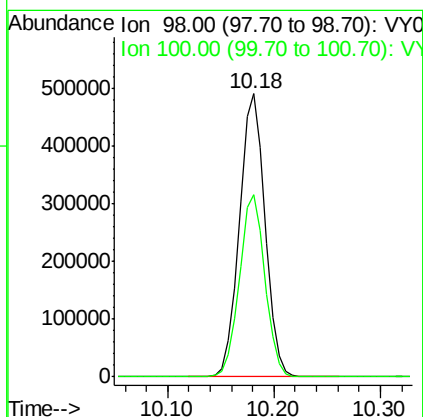
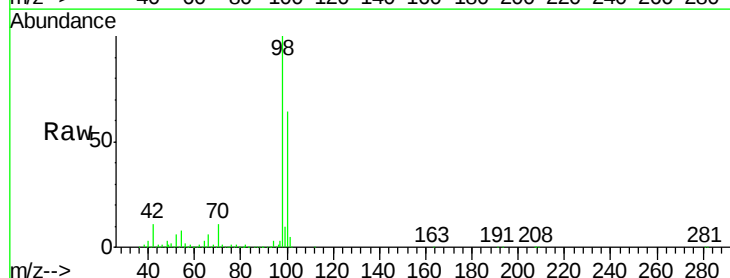
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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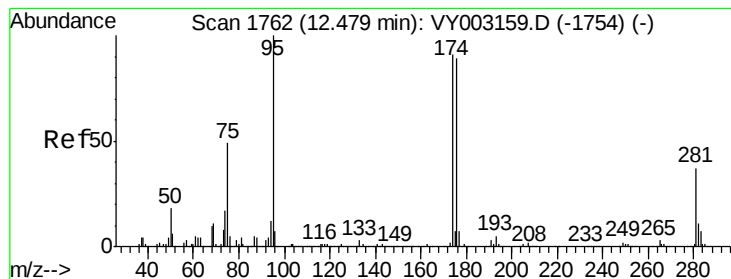
Tot Ion:117 Resp: 40861  
Ion Ratio Lower Upper  
117 100  
119 4.8 74.5 111.7#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 54.787 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

Tgt Ion: 98 Resp: 830736  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.7 76.1





#62

4-Bromofluorobenzene

Concen: 42.228 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

Instrument :

MSVOA\_Y

ClientSampled :

7

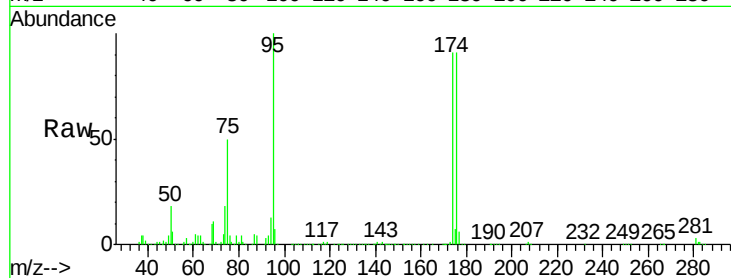
Tot Ion: 95 Resp: 231315

Ion Ratio Lower Upper

95 100

174 94.5 0.0 190.6

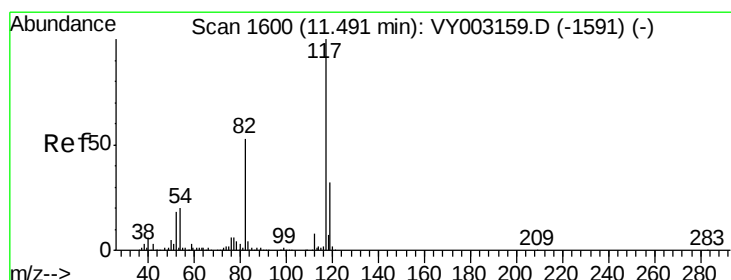
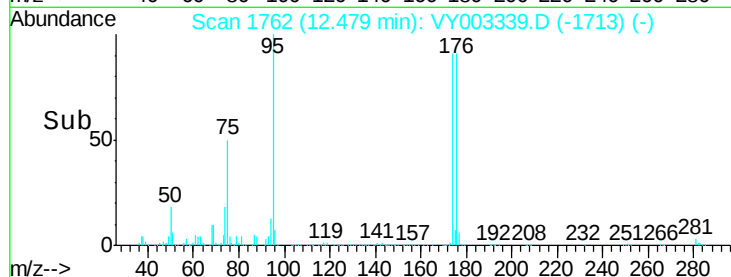
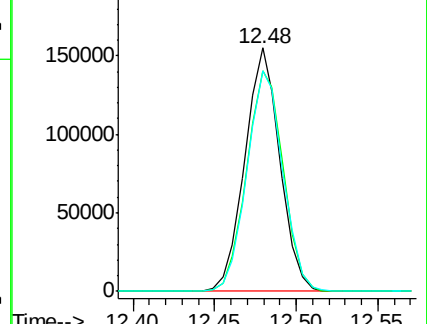
176 92.9 0.0 186.4



Abundance Ion 94.90 (94.60 to 95.60): VY003339.D (-1754) (-)

Ion 173.80 (173.50 to 174.50): VY003339.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY003339.D (-1754) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

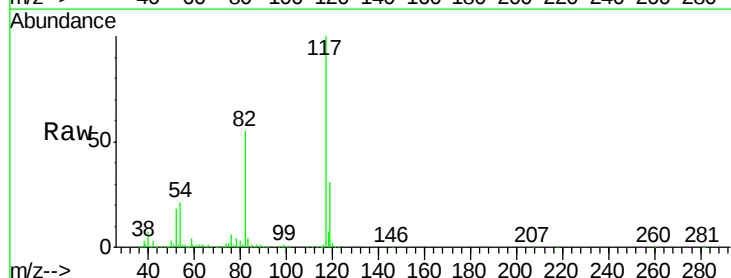
Tgt Ion: 117 Resp: 593961

Ion Ratio Lower Upper

117 100

82 54.6 42.0 63.0

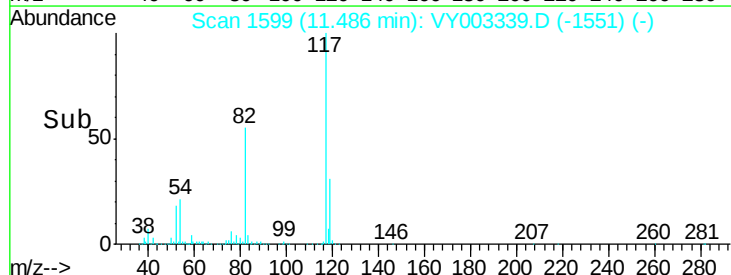
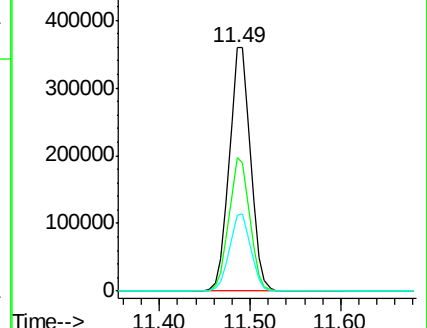
119 31.1 25.5 38.3

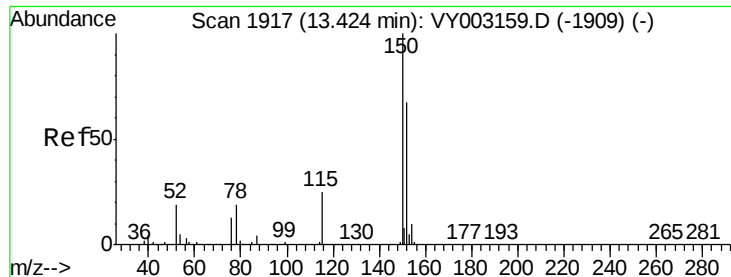


Abundance Ion 116.90 (116.60 to 117.60): VY003339.D (-1551) (-)

Ion 82.00 (81.70 to 82.70): VY003339.D (-1551) (-)

Ion 118.90 (118.60 to 119.60): VY003339.D (-1551) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

7

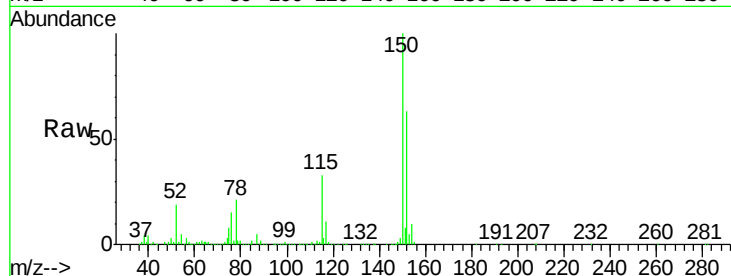
Tot Ion:152 Resp: 221910

Ion Ratio Lower Upper

152 100

115 53.5 26.9 80.7

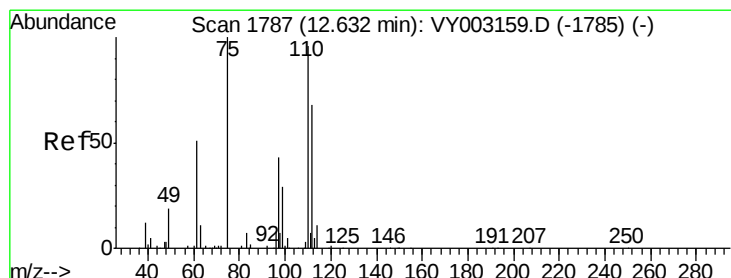
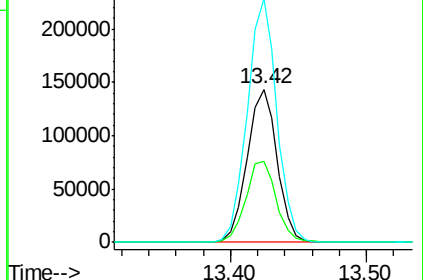
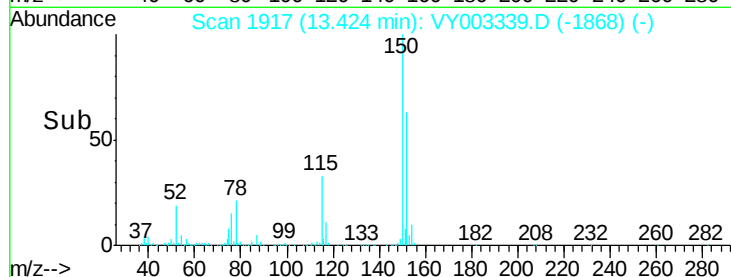
150 156.3 0.0 338.0



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: 59.316 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003339.D

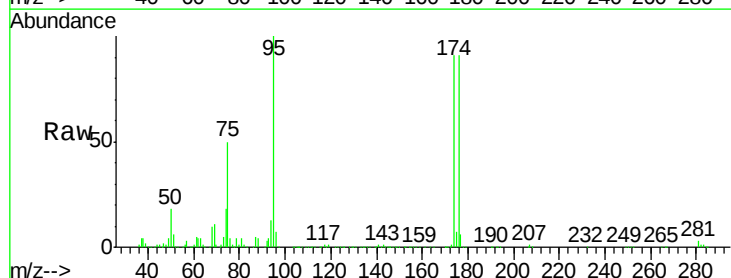
Acq: 24 Jul 2020 18:03

Tgt Ion: 75 Resp: 116513

Ion Ratio Lower Upper

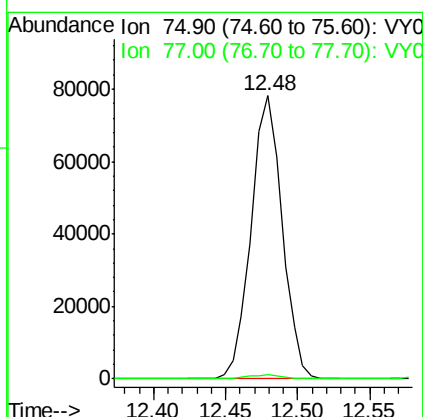
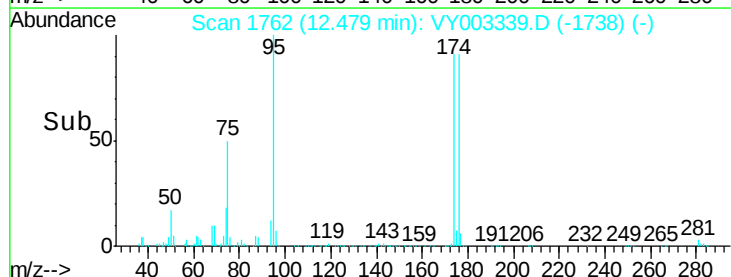
75 100

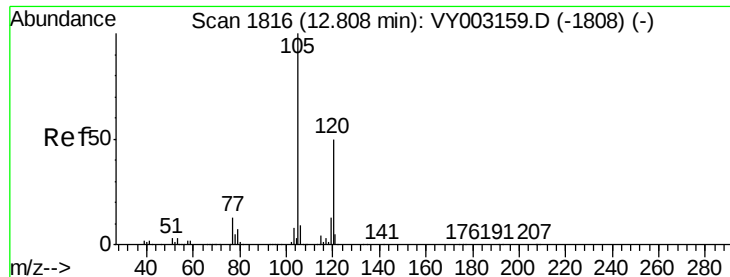
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#80

1,3,5-Trimethylbenzene

Concen: 2.290 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

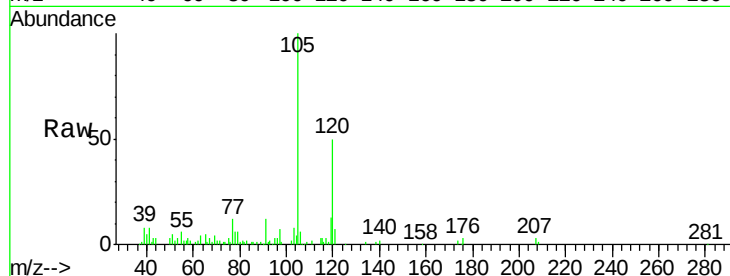
7

Tot Ion:105 Resp: 26989

Ion Ratio Lower Upper

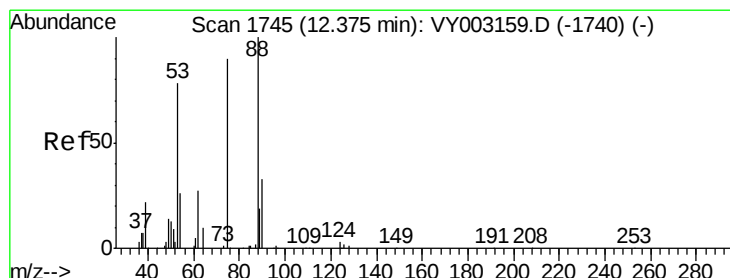
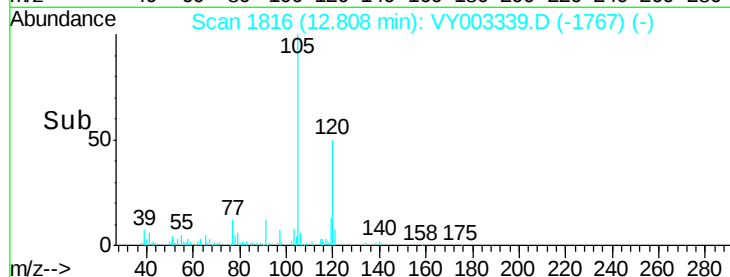
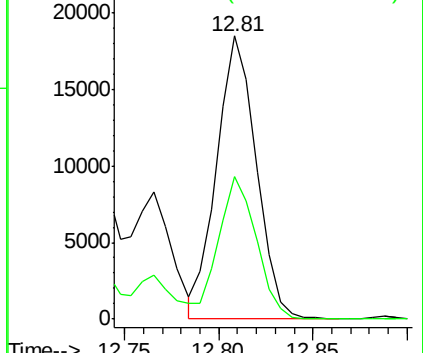
105 100

120 48.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 115.440 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

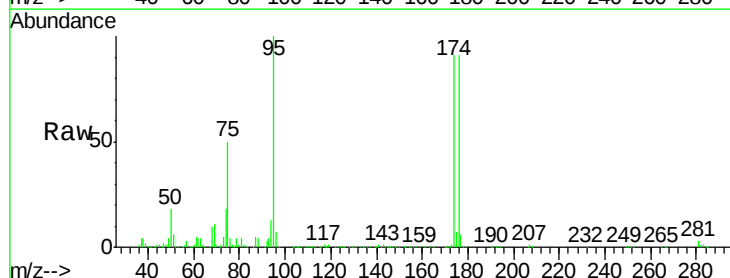
Tgt Ion: 75 Resp: 116513

Ion Ratio Lower Upper

75 100

53 0.2 72.0 108.0#

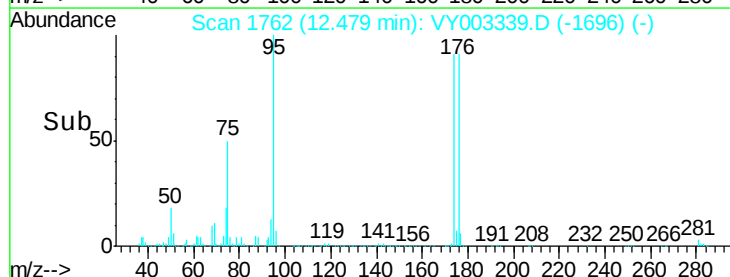
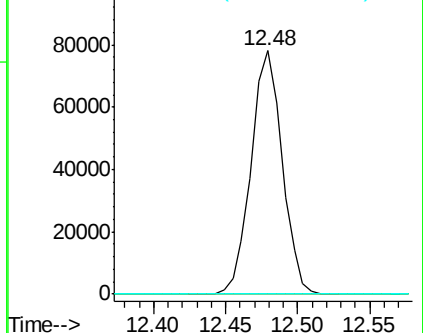
89 0.0 37.3 55.9#

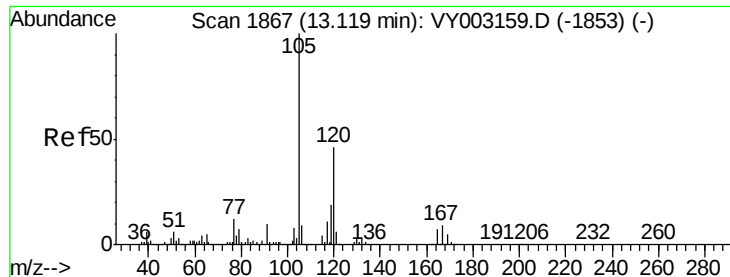


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

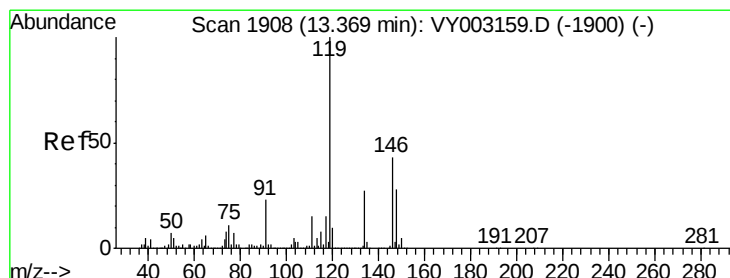
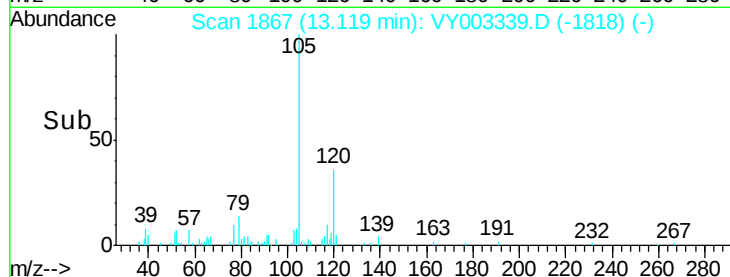
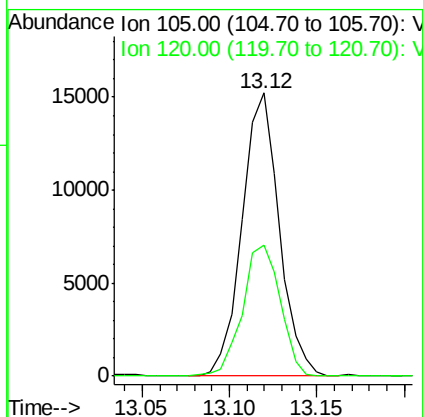
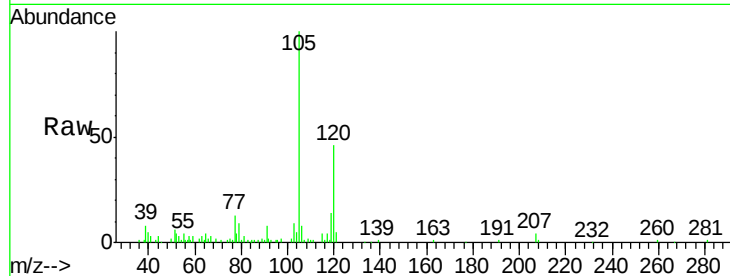




#84  
1,2,4-Trimethylbenzene  
Concen: 1.897 ug/l  
RT: 13.12 min Scan# 1867  
Delta R.T. 0.00 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

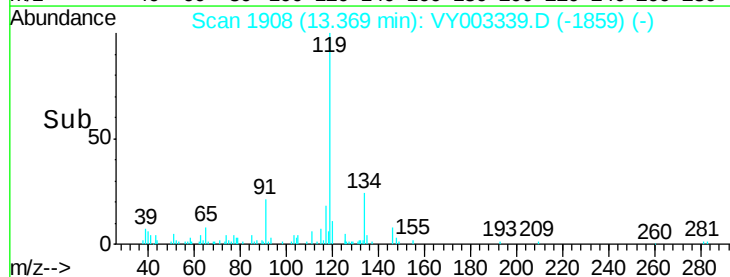
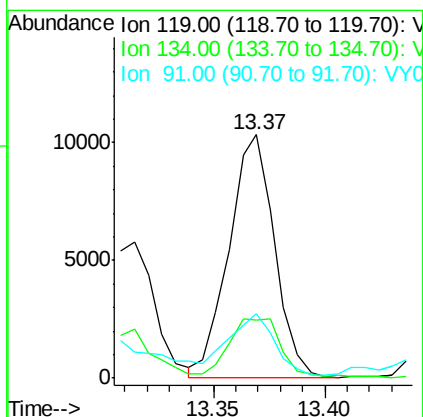
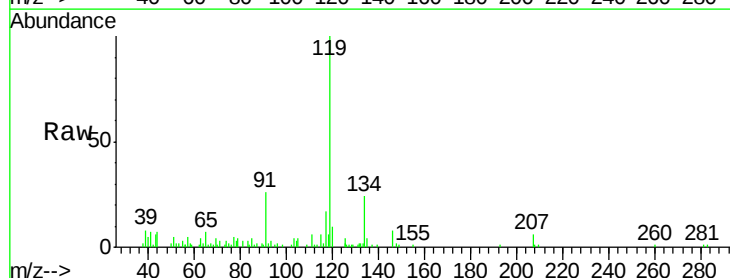
Instrument :  
MSVOA\_Y  
ClientSampleId :  
7

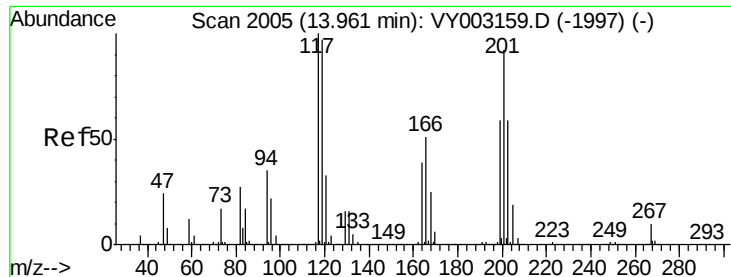
Tot Ion:105 Resp: 22502  
Ion Ratio Lower Upper  
105 100  
120 47.1 22.5 67.5



#86  
p-Isopropyltoluene  
Concen: 1.103 ug/l  
RT: 13.37 min Scan# 1908  
Delta R.T. 0.00 min  
Lab File: VY003339.D  
Acq: 24 Jul 2020 18:03

Tgt Ion:119 Resp: 14726  
Ion Ratio Lower Upper  
119 100  
134 26.5 13.4 40.2  
91 25.1 11.2 33.6





#90

Hexachloroethane

Concen: 1.802 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

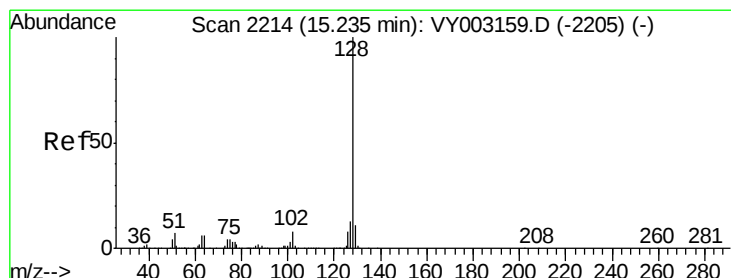
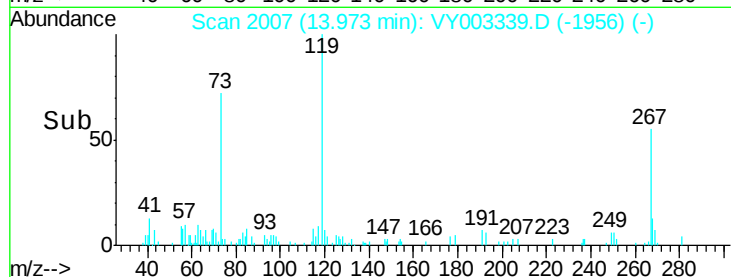
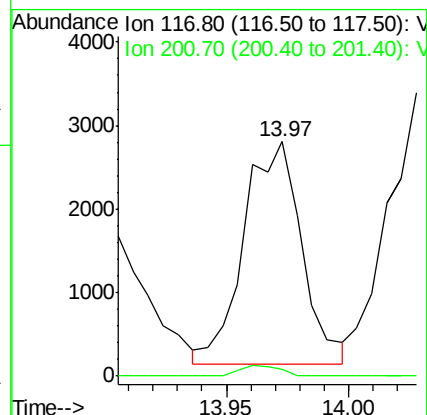
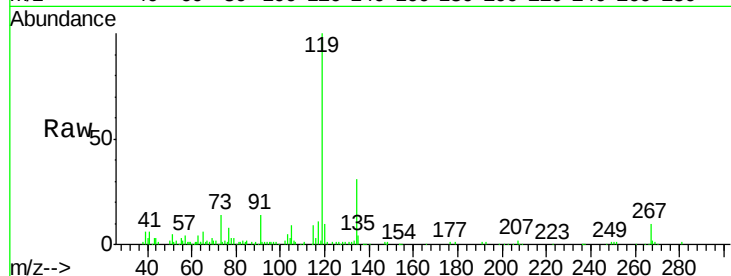
7

Tot Ion:117 Resp: 4379

Ion Ratio Lower Upper

117 100

201 3.3 45.1 135.3#



#95

Naphthalene

Concen: 1.765 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.01 min

Lab File: VY003339.D

Acq: 24 Jul 2020 18:03

Tgt Ion:128 Resp: 12411

Ion Ratio Lower Upper

128 100

127 15.1 10.9 16.3

129 12.0 9.0 13.6

