

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY041420\  
 Data File : VY002304.D  
 Acq On : 14 Apr 2020 13:34  
 Operator : SY/MD  
 Sample : L2230-31  
 Misc : 7.18G/5ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-20

Quant Time: Apr 15 05:34:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y040820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 08 15:15:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 139959   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 281392   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 246628   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 84637    | 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   | 79110    | 50.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.66% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 85373    | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |
| 50) Toluene-d8              | 10.18 | 98   | 343059   | 48.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.90%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 96887    | 41.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.80%  |          |

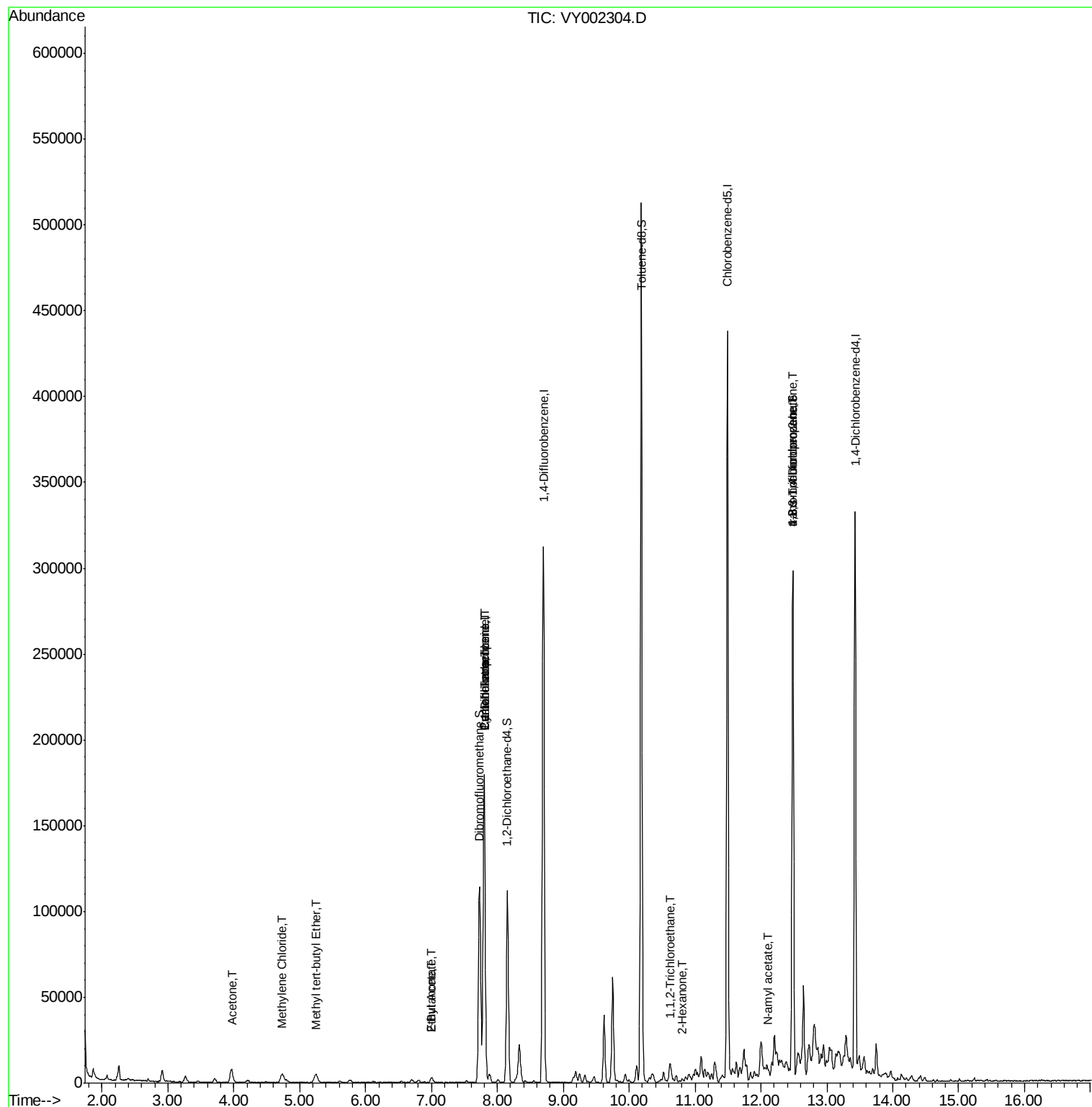
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.97  | 59   | 50       | Below Cal | #      | 77     |
| 16) Acetone                    | 3.97  | 43   | 14471    | 35.300    | ug/l   | 91     |
| 19) Methyl tert-butyl Ether    | 5.25  | 73   | 5635     | 1.268     | ug/l # | 34     |
| 20) Methylene Chloride         | 4.73  | 84   | 3340     | 1.658     | ug/l   | 87     |
| 25) 2-Butanone                 | 7.00  | 43   | 4929     | 7.598     | ug/l   | 99     |
| 31) Cyclohexane                | 7.80  | 56   | 3460     | 1.055     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 10898    | 3.932     | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.00  | 43   | 4929     | 3.113     | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 13957    | 5.887     | ug/l # | 16     |
| 55) 1,1,2-Trichloroethane      | 10.63 | 97   | 3835     | 2.401     | ug/l # | 28     |
| 59) 2-Hexanone                 | 10.80 | 43   | 1065     | 1.020     | ug/l # | 21     |
| 74) N-amyl acetate             | 12.11 | 43   | 1963     | 1.040     | ug/l # | 40     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 46728    | 47.545    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 46728    | 92.474    | ug/l # | 19     |

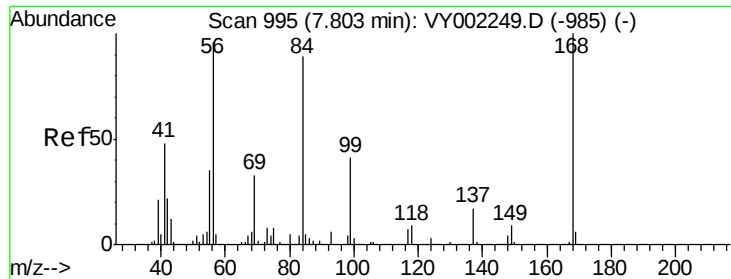
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY041420\  
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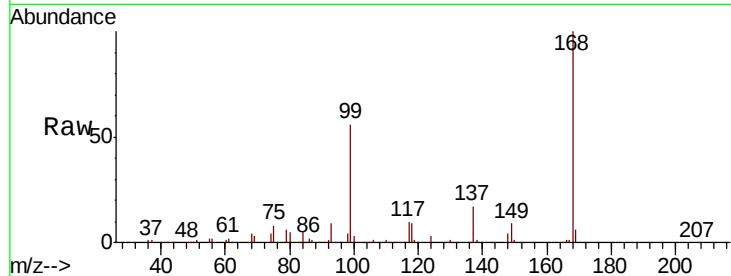


#1

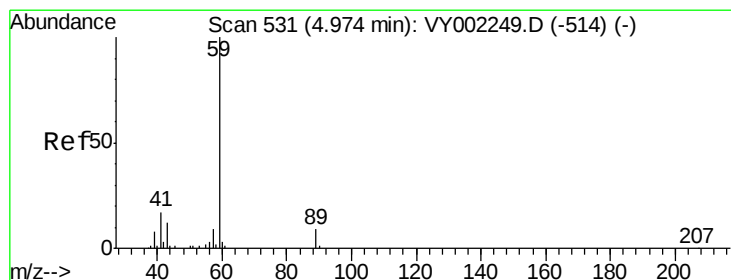
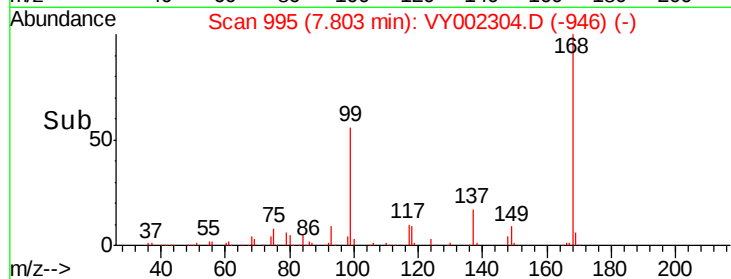
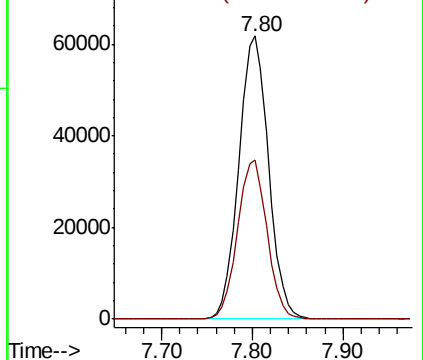
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.00 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-20

Tot Ion:168 Resp: 139959  
 Ion Ratio Lower Upper  
 168 100  
 99 56.1 48.0 72.0



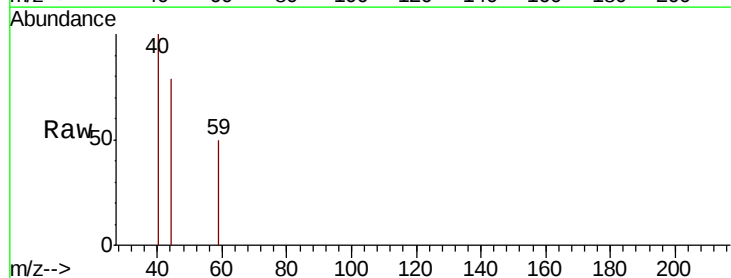
Abundance Ion 167.90 (167.60 to 168.60): VY002249.D (-985) (-)  
 Ion 98.90 (98.60 to 99.60): VY002249.D (-985) (-)



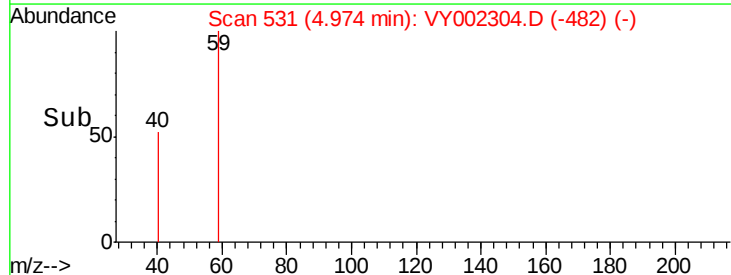
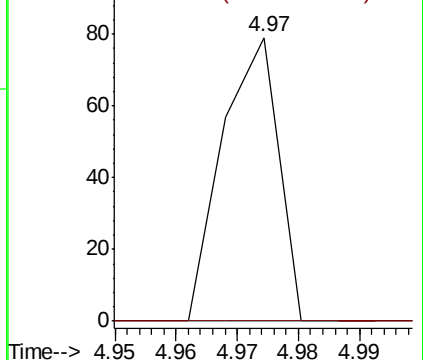
#11

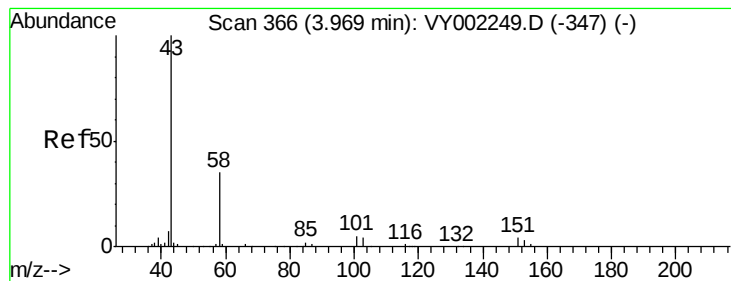
Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.97 min Scan# 531  
 Delta R.T. 0.00 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

Tgt Ion: 59 Resp: 50  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.6 9.8#



Abundance Ion 59.00 (58.70 to 59.70): VY002249.D (-514) (-)  
 Ion 57.00 (56.70 to 57.70): VY002249.D (-514) (-)





#16

Acetone

Concen: 35.300 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.00 min

Lab File: VY002304.D

Acq: 14 Apr 2020 13:34

Instrument :

MSVOA\_Y

ClientSampled :

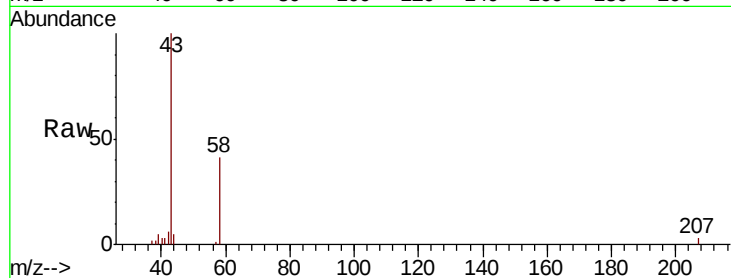
TP-20

Tot Ion: 43 Resp: 14471

Ion Ratio Lower Upper

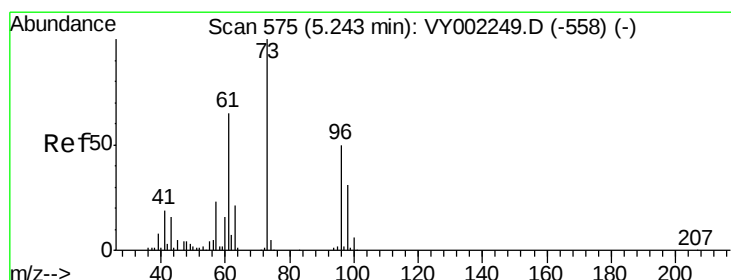
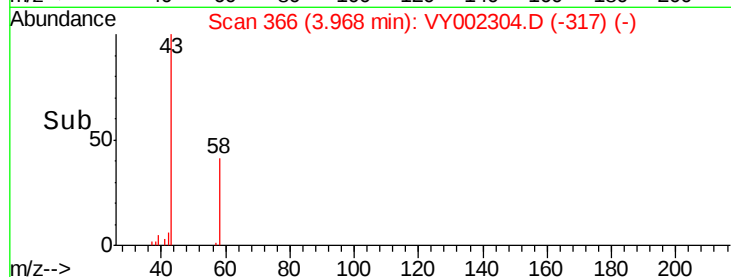
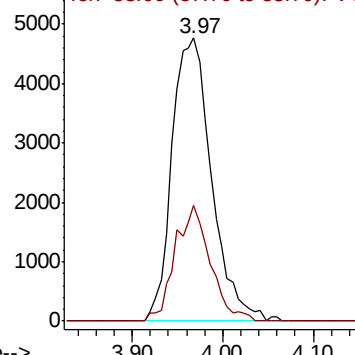
43 100

58 41.1 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#19

Methyl tert-butyl Ether

Concen: 1.268 ug/l

RT: 5.25 min Scan# 576

Delta R.T. 0.01 min

Lab File: VY002304.D

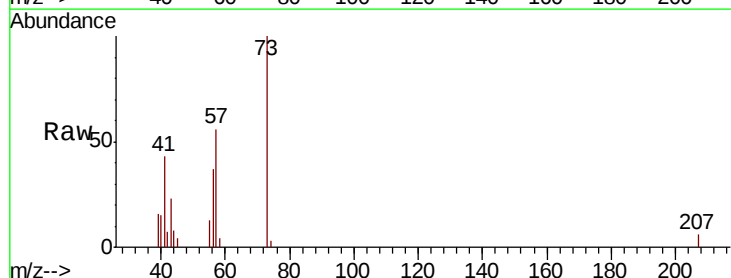
Acq: 14 Apr 2020 13:34

Tgt Ion: 73 Resp: 5635

Ion Ratio Lower Upper

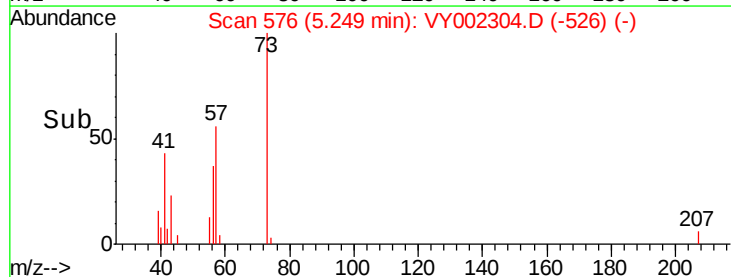
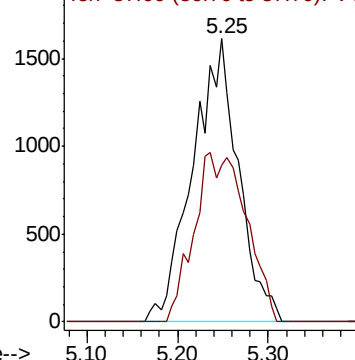
73 100

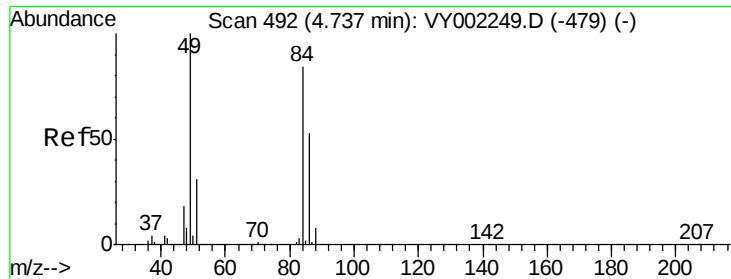
57 55.5 18.7 28.1#



Abundance Ion 73.00 (72.70 to 73.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

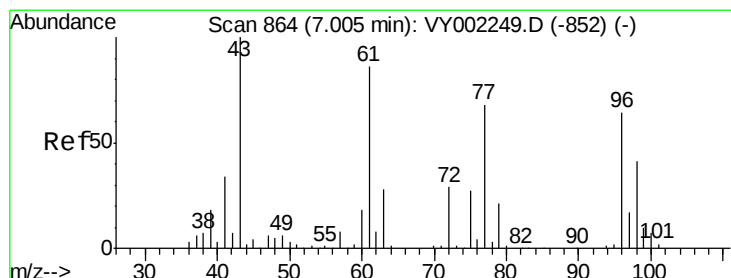
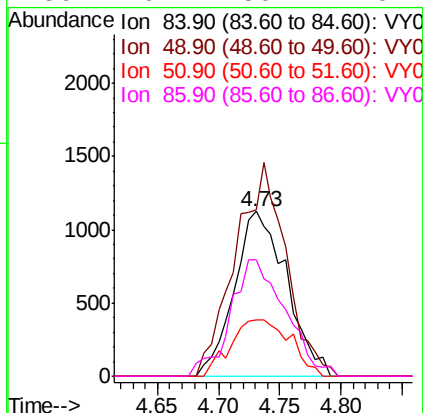
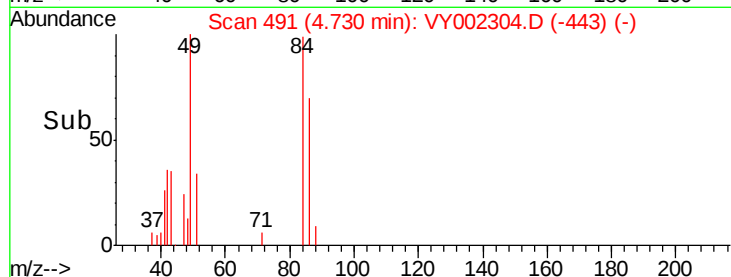
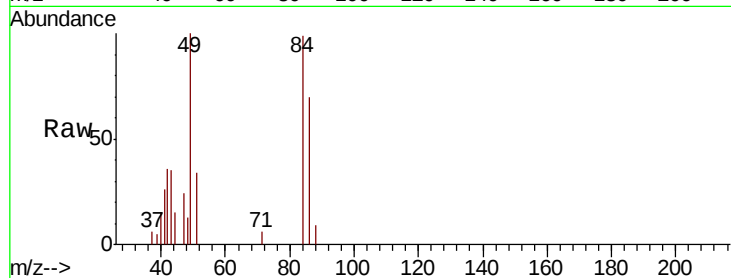




#20  
Methylene Chloride  
Concen: 1.658 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: VY002304.D  
Acq: 14 Apr 2020 13:34

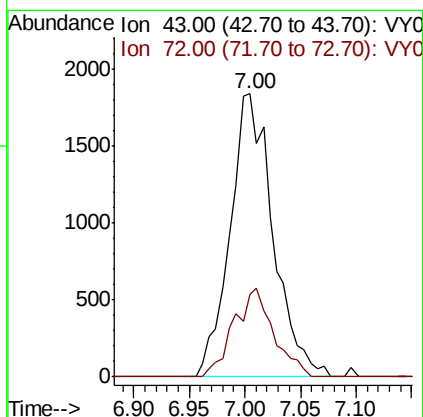
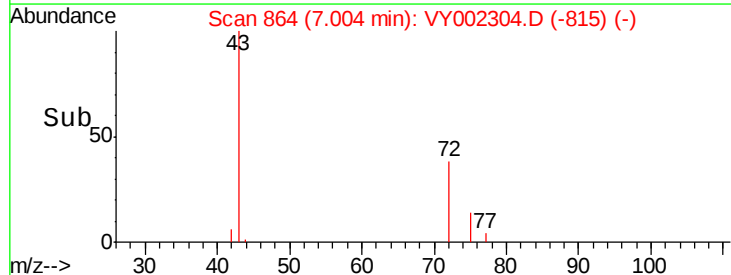
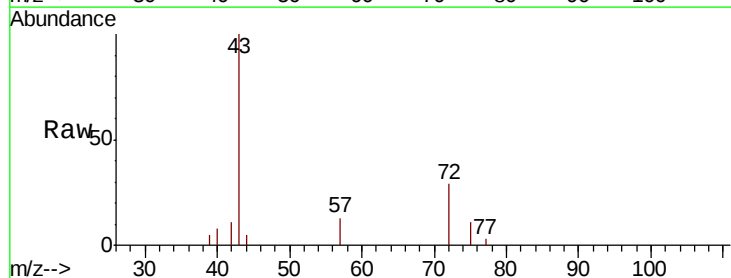
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-20

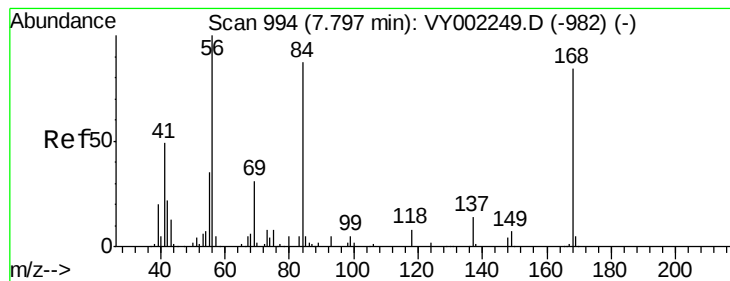
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 3340  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 100.5 | 95.5  | 143.3 |
| 51       | 34.2  | 29.5  | 44.3  |
| 86       | 70.7  | 50.7  | 76.1  |



#25  
2-Butanone  
Concen: 7.598 ug/l  
RT: 7.00 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VY002304.D  
Acq: 14 Apr 2020 13:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4929  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 29.3  | 23.2  | 34.8  |





#31

Cyclohexane

Concen: 1.055 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY002304.D

Acq: 14 Apr 2020 13:34

Instrument :

MSVOA\_Y

ClientSampled :

TP-20

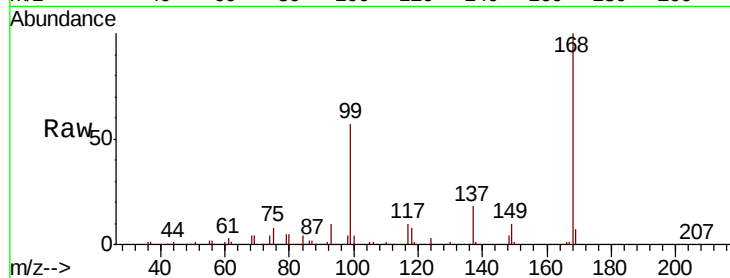
Tot Ion: 56 Resp: 3460

Ion Ratio Lower Upper

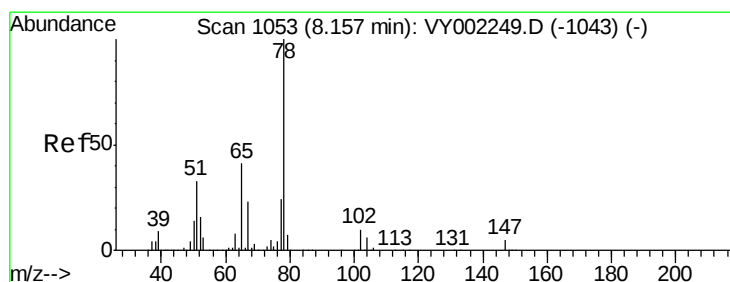
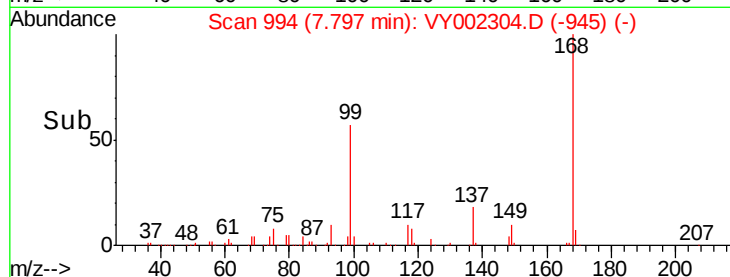
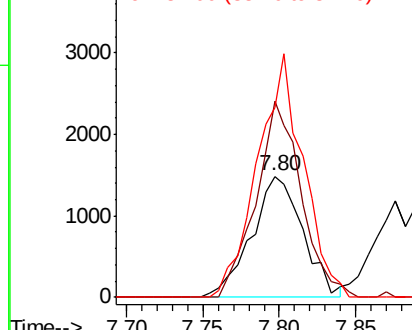
56 100

69 162.0 25.0 37.6#

84 157.0 69.7 104.5#



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



#33

1,2-Dichloroethane-d4

Concen: 50.827 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY002304.D

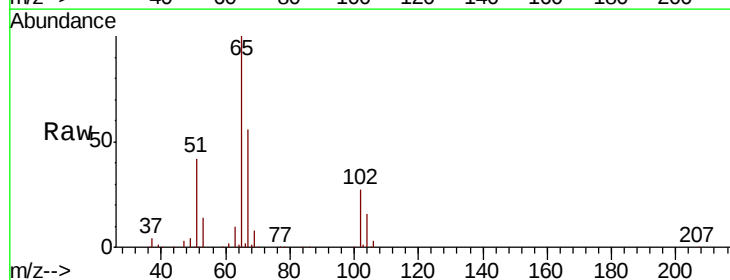
Acq: 14 Apr 2020 13:34

Tgt Ion: 65 Resp: 79110

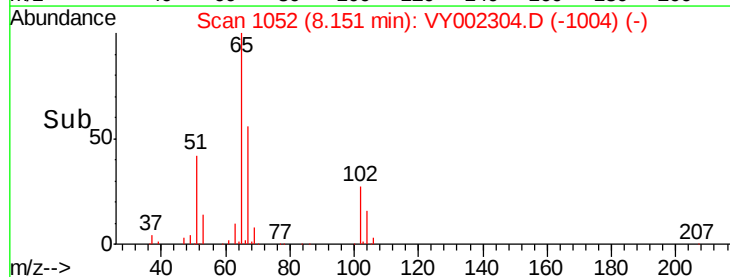
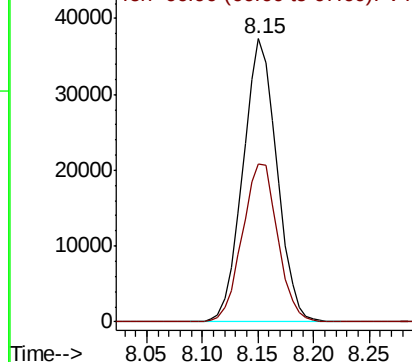
Ion Ratio Lower Upper

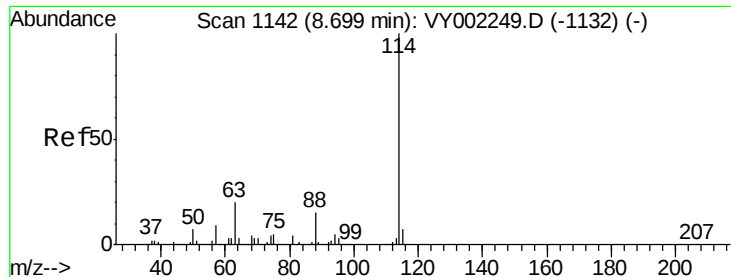
65 100

67 58.5 0.0 114.0



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

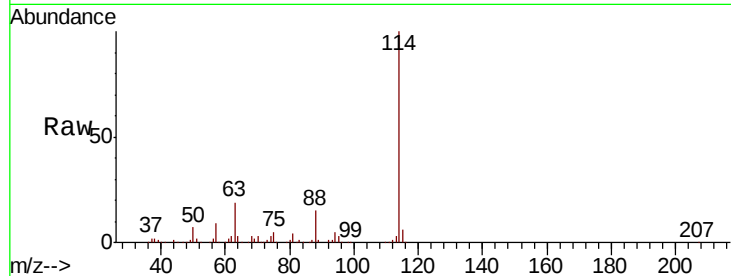




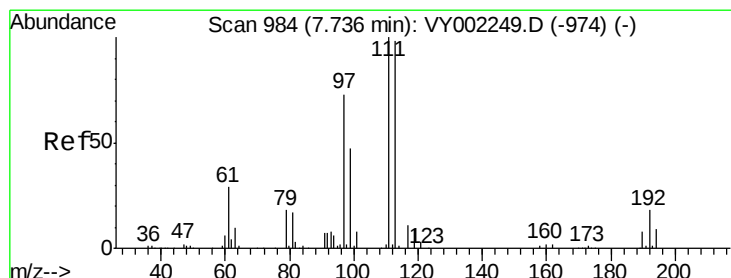
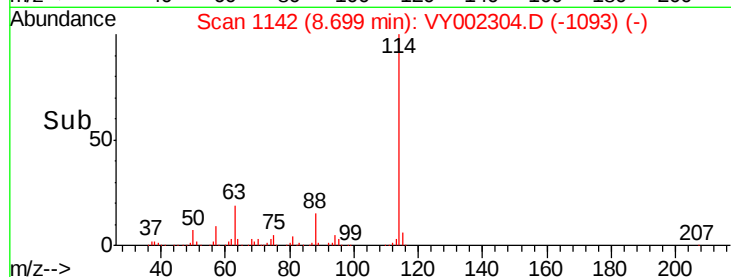
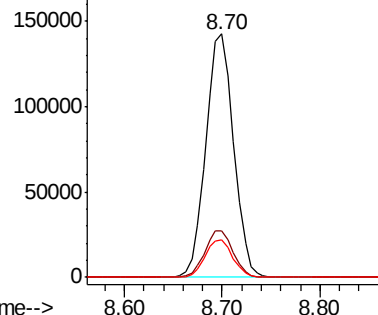
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.3  | 0.0   | 39.0  |
| 88      | 15.4  | 0.0   | 31.0  |

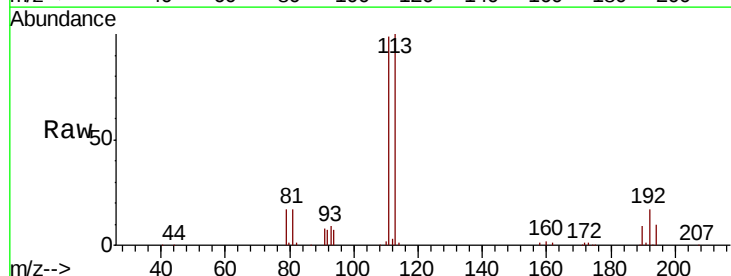


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

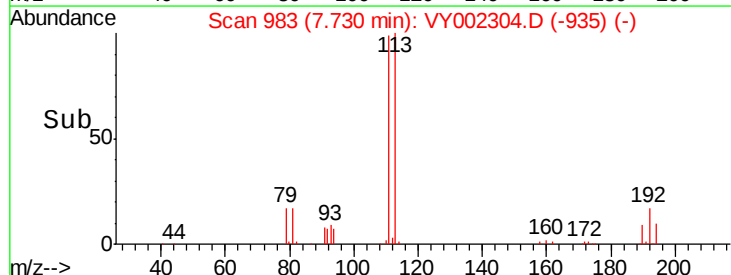
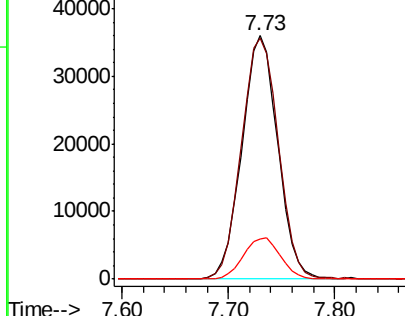


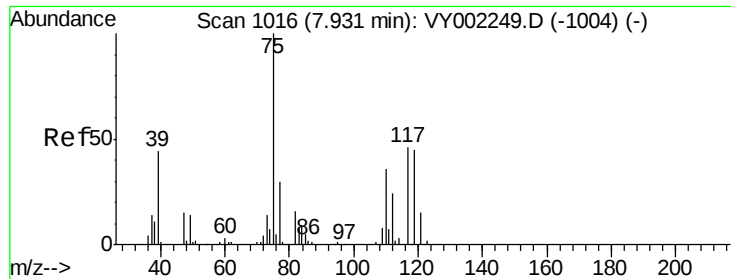
#35  
 Dibromofluoromethane  
 Concen: 50.988 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.01 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 83.5  | 125.3 |
| 192     | 17.5  | 14.7  | 22.1  |



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

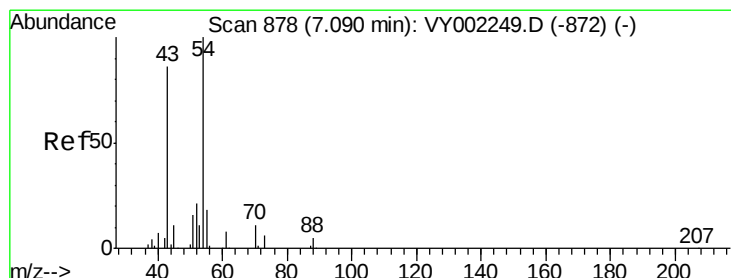
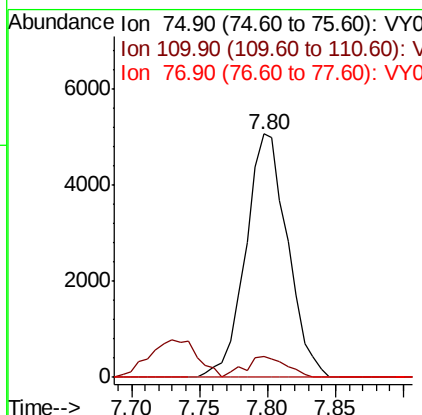
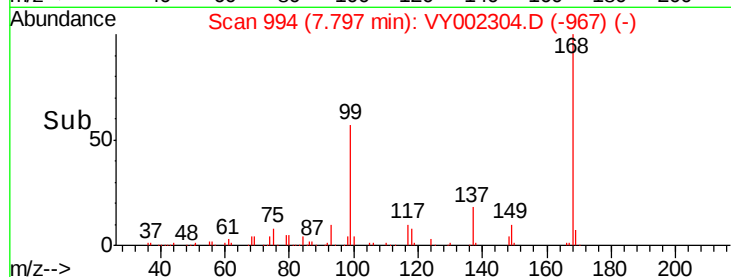
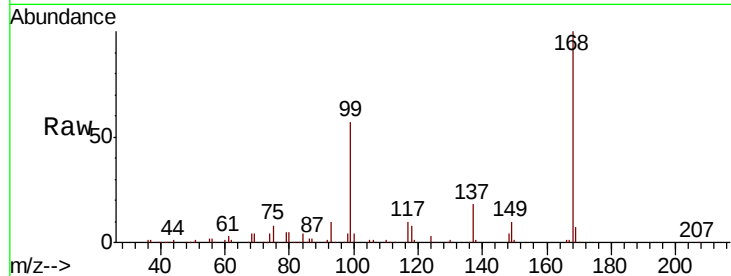




#36  
 1,1-Dichloropropene  
 Concen: 3.932 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

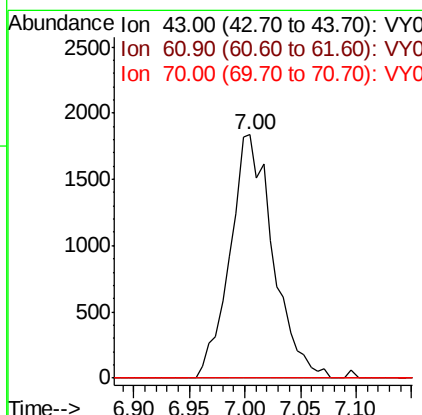
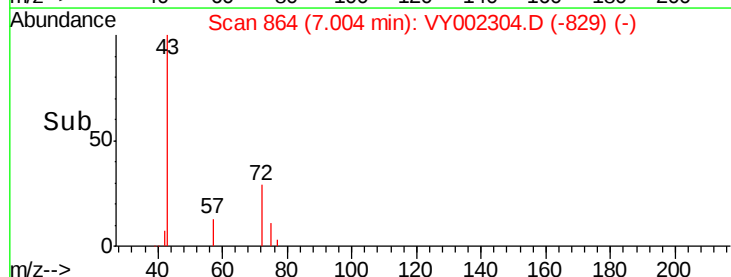
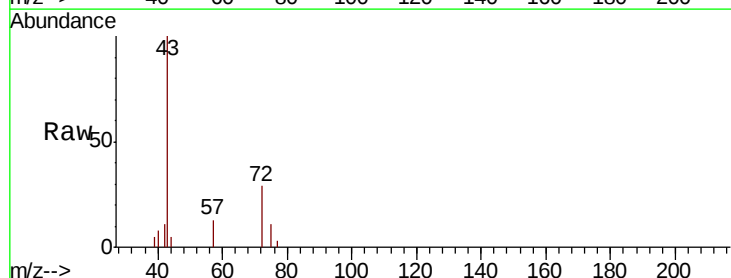
Instrument :  
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 ClientSampled :  
 TP-20

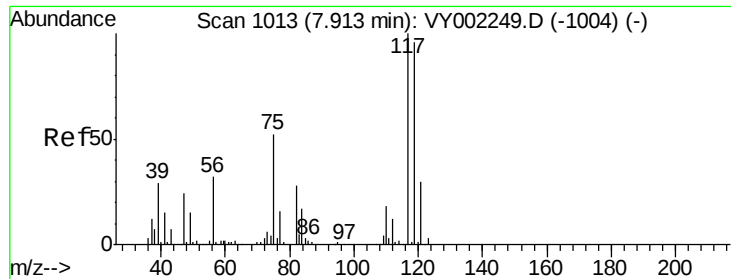
Tot Ion: 75 Resp: 10898  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 17.8 53.3#  
 77 0.0 24.4 36.6#



#37  
 Ethyl Acetate  
 Concen: 3.113 ug/l  
 RT: 7.00 min Scan# 864  
 Delta R.T. -0.09 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

Tgt Ion: 43 Resp: 4929  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.8 17.6#  
 70 0.0 9.1 13.7#





#38

Carbon Tetrachloride

Concen: 5.887 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY002304.D

Acq: 14 Apr 2020 13:34

Instrument :

MSVOA\_Y

ClientSampled :

TP-20

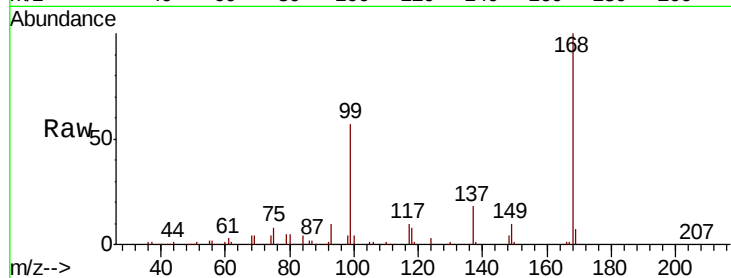
Tot Ion:117 Resp: 13957

Ion Ratio Lower Upper

117 100

119 6.0 77.1 115.7#

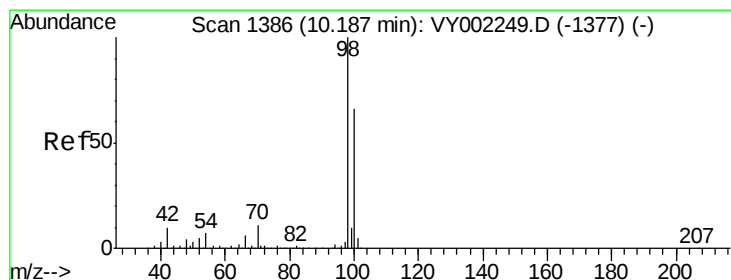
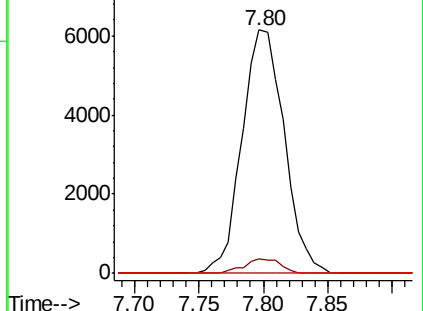
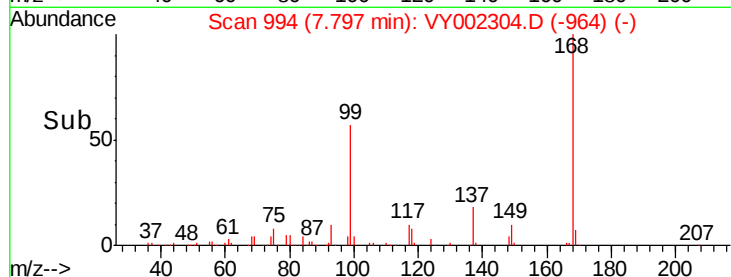
121 0.0 23.9 35.9#



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: 48.951 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002304.D

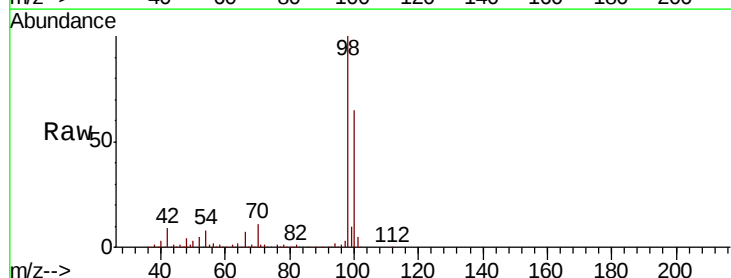
Acq: 14 Apr 2020 13:34

Tgt Ion: 98 Resp: 343059

Ion Ratio Lower Upper

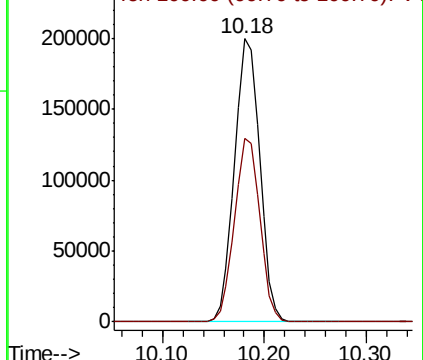
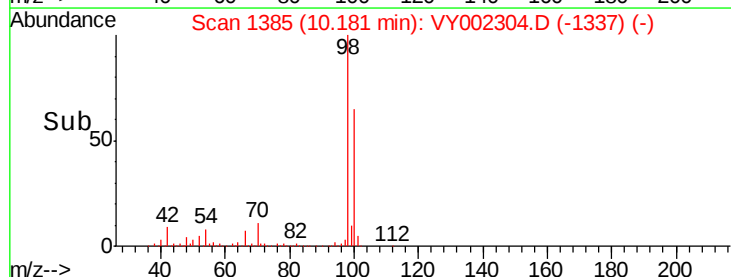
98 100

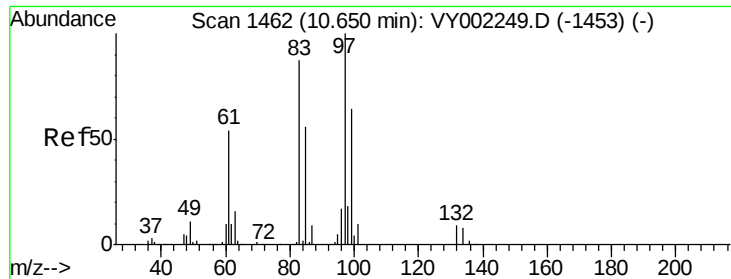
100 64.9 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#55

1,1,2-Trichloroethane

Concen: 2.401 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.02 min

Lab File: VY002304.D

Acq: 14 Apr 2020 13:34

Instrument :

MSVOA\_Y

ClientSampled :

TP-20

Tot Ion: 97 Resp: 3835

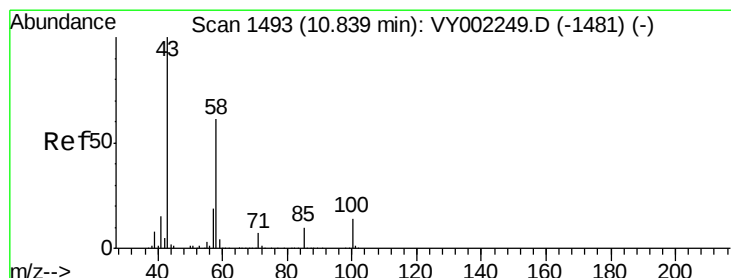
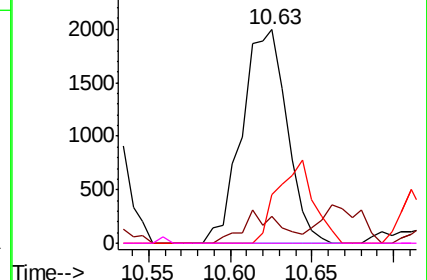
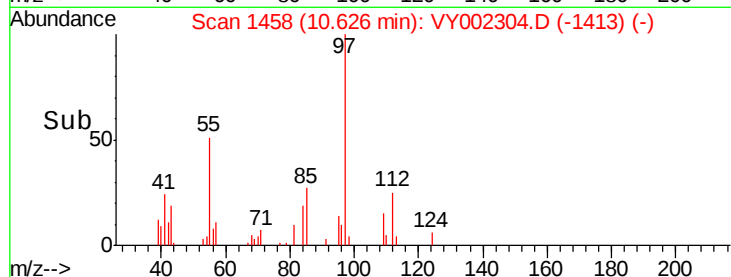
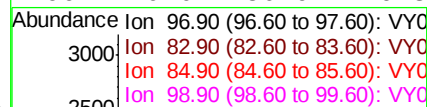
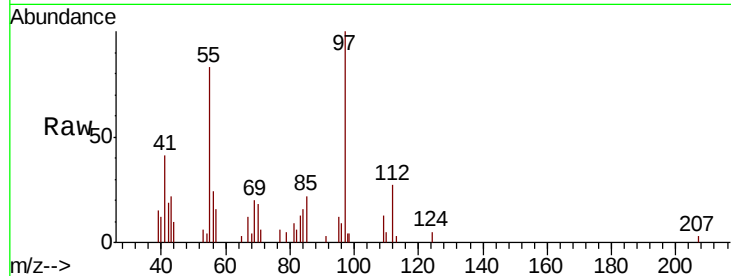
Ion Ratio Lower Upper

97 100

83 12.5 69.5 104.3#

85 22.5 45.2 67.8#

99 0.0 50.9 76.3#



#59

2-Hexanone

Concen: 1.020 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.04 min

Lab File: VY002304.D

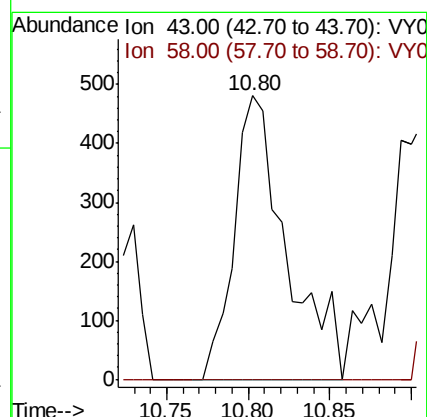
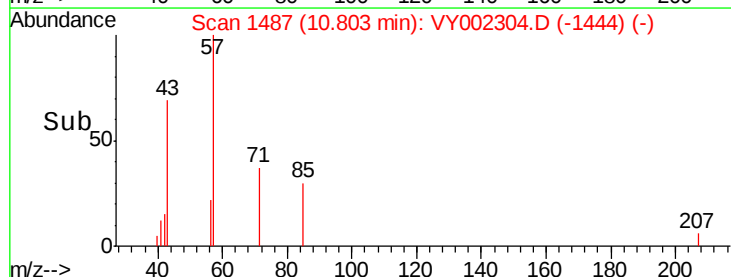
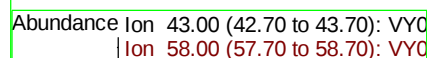
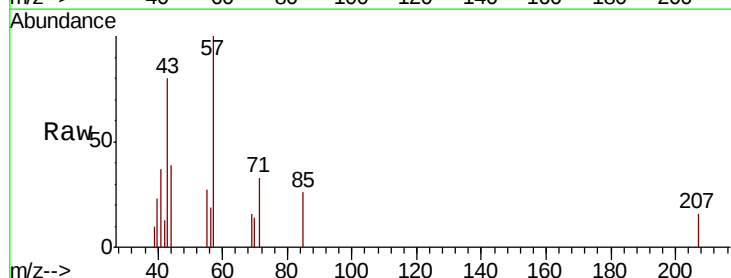
Acq: 14 Apr 2020 13:34

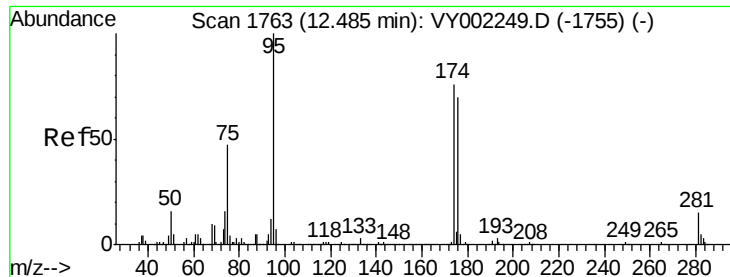
Tgt Ion: 43 Resp: 1065

Ion Ratio Lower Upper

43 100

58 0.0 29.8 89.3#

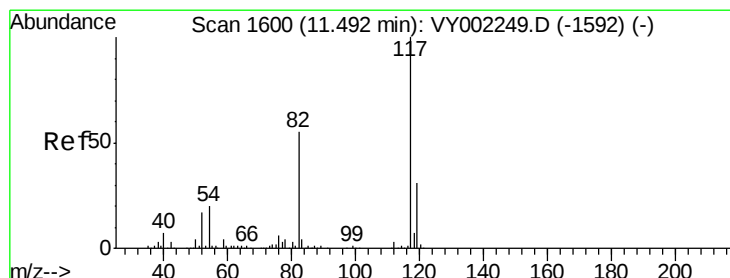
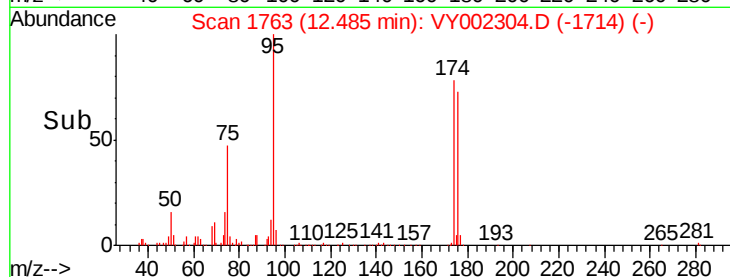
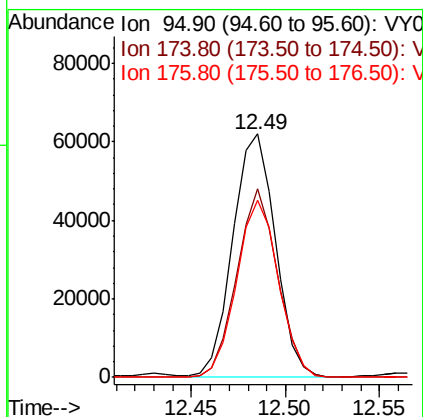
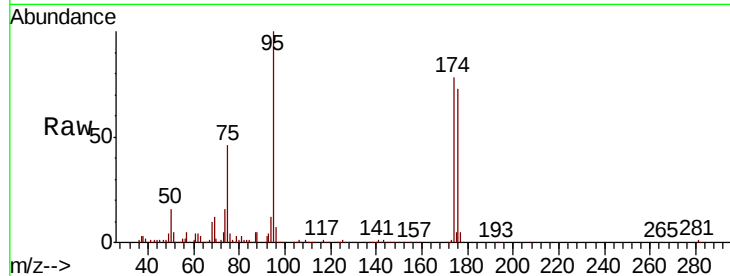




#62  
4-Bromofluorobenzene  
Concen: 41.904 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. -0.00 min  
Lab File: VY002304.D  
Acq: 14 Apr 2020 13:34

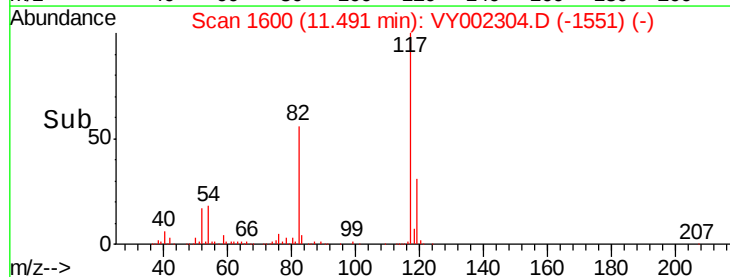
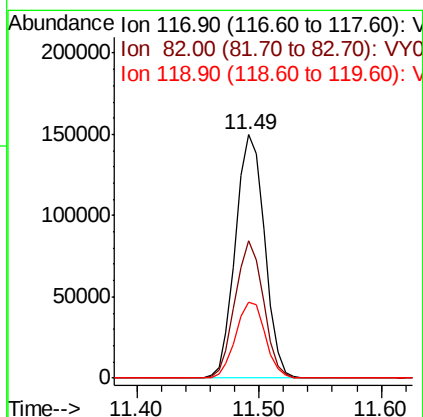
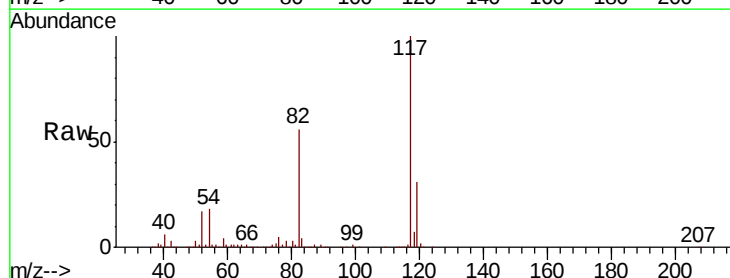
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-20

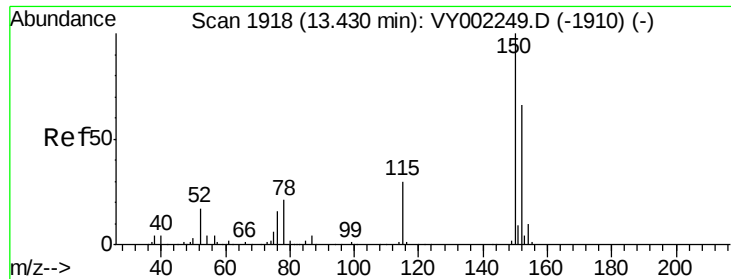
Tot Ion: 95 Resp: 96887  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 150.6  
176 71.7 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY002304.D  
Acq: 14 Apr 2020 13:34

Tgt Ion: 117 Resp: 246628  
Ion Ratio Lower Upper  
117 100  
82 56.2 44.2 66.4  
119 31.2 25.1 37.7



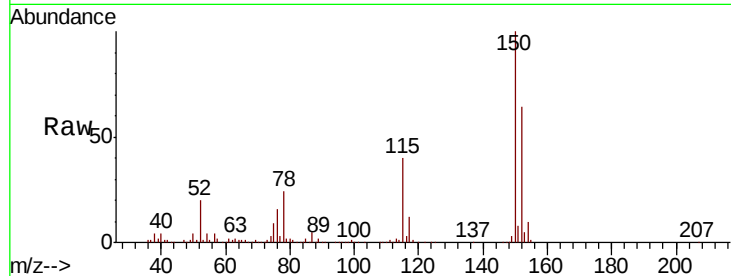


#72

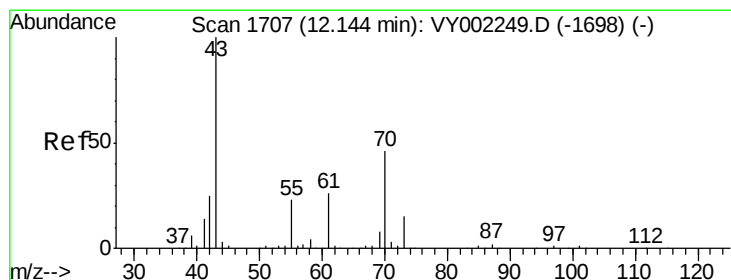
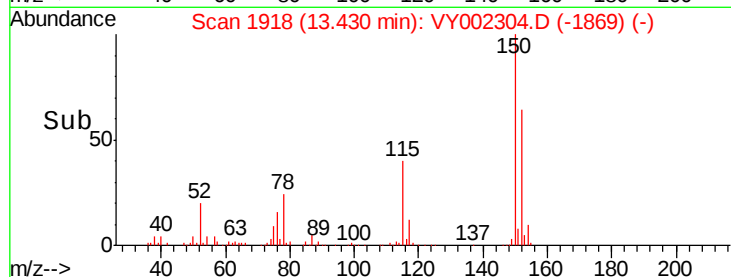
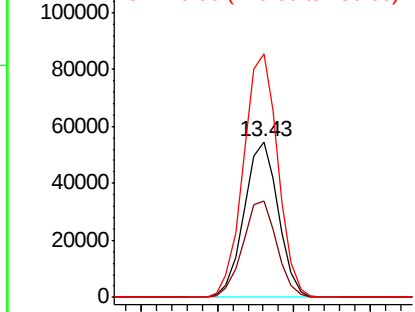
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.00 min  
Lab File: VY002304.D  
Acq: 14 Apr 2020 13:34

Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-20

Tot Ion:152 Resp: 84637  
Ion Ratio Lower Upper  
152 100  
115 61.8 30.7 92.1  
150 157.5 0.0 350.6



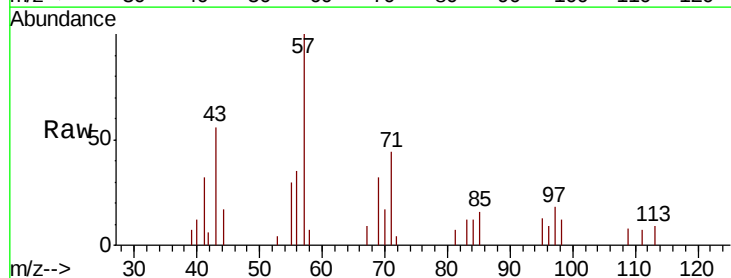
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



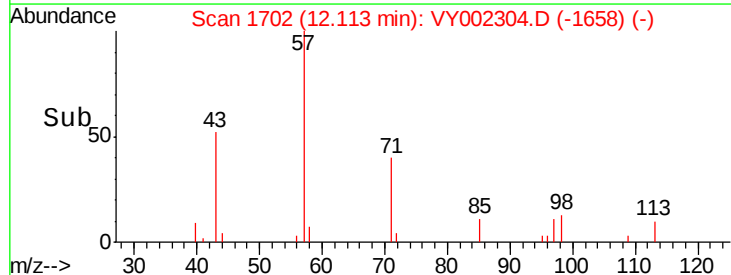
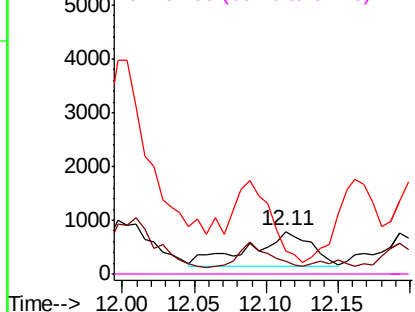
#74

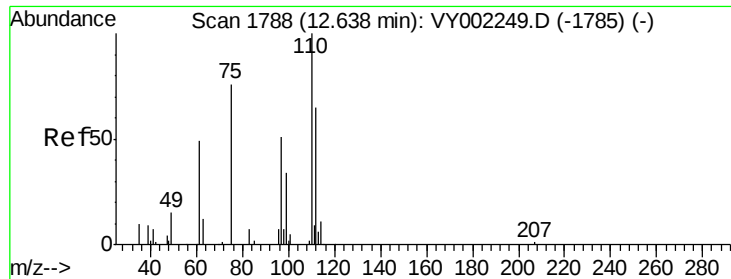
N-ethyl acetate  
Concen: 1.040 ug/l  
RT: 12.11 min Scan# 1702  
Delta R.T. -0.03 min  
Lab File: VY002304.D  
Acq: 14 Apr 2020 13:34

Tgt Ion: 43 Resp: 1963  
Ion Ratio Lower Upper  
43 100  
70 0.0 37.5 56.3#  
55 0.0 19.0 28.6#  
61 0.0 21.6 32.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 70.00 (69.70 to 70.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0  
Ion 61.00 (60.70 to 61.70): VY0

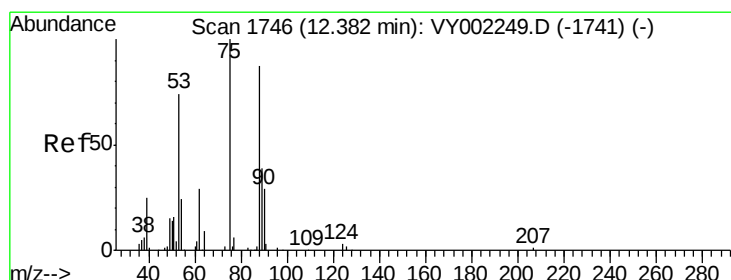
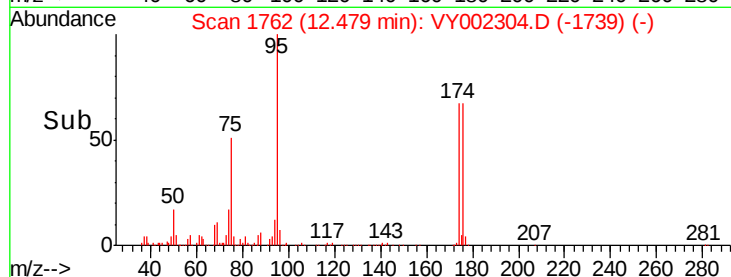
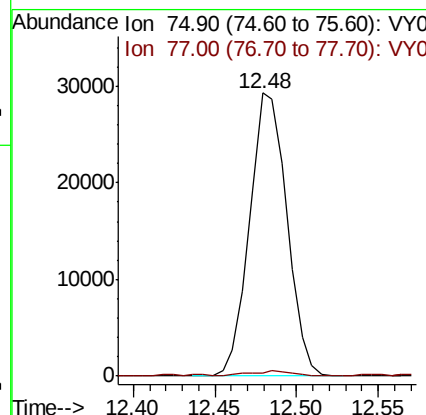
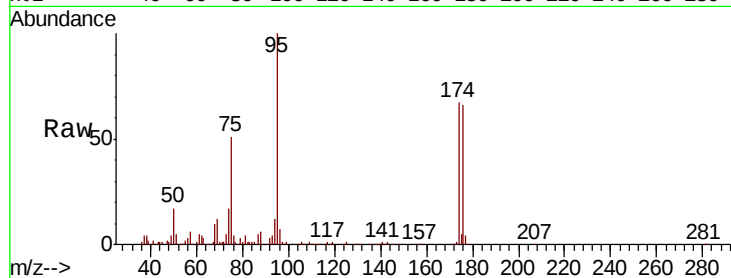




#76  
 1,2,3-Trichloropropane  
 Concen: 47.545 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. -0.16 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-20

Tot Ion: 75 Resp: 46728  
 Ion Ratio Lower Upper  
 75 100  
 77 2.1 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 92.474 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. 0.10 min  
 Lab File: VY002304.D  
 Acq: 14 Apr 2020 13:34

Tgt Ion: 75 Resp: 46728  
 Ion Ratio Lower Upper  
 75 100  
 53 0.5 59.8 89.8#  
 89 0.0 37.0 55.6#

