

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U050420\  
 Data File : VU038000.D  
 Acq On : 04 May 2020 12:39  
 Operator : JC/MD  
 Sample : VSTDICCC010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

apatel  
 5/5/2020 11:15:47 AM

Quant Time: May 05 02:00:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue May 05 01:36:34 2020  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 6.14 | 96   | 89896    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |         |      |
|----------------------------|-------|-----|----------|------|---------|------|
| 57) 4-Bromofluorobenzene   | 10.65 | 95  | 35078    | 1.01 | ug/l    | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 101.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 12.20 | 152 | 33024    | 0.94 | ug/l    | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 94.00%  |      |

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## Target Compounds

|                               |      |     |         |         | Ovalue   |
|-------------------------------|------|-----|---------|---------|----------|
| 2) Dichlorodifluoromethane    | 1.39 | 85  | 300947  | 7.208   | ug/l 100 |
| 3) Chloromethane              | 1.54 | 50  | 341761  | 8.117   | ug/l 100 |
| 4) Vinyl Chloride             | 1.62 | 62  | 353107  | 9.331   | ug/l 100 |
| 5) Bromomethane               | 1.87 | 94  | 175669  | 12.313  | ug/l 100 |
| 6) Chloroethane               | 1.95 | 64  | 211146  | 11.141  | ug/l 100 |
| 7) Trichlorofluoromethane     | 2.16 | 101 | 369141  | 8.153   | ug/l 100 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 228711  | 10.341  | ug/l 100 |
| 9) 1,1-Dichloroethene         | 2.60 | 96  | 225058  | 10.622  | ug/l 100 |
| 10) Iodomethane               | 2.75 | 142 | 205219  | 19.400  | ug/l 100 |
| 11) Allyl Chloride            | 2.95 | 41  | 426882  | 10.404  | ug/l 100 |
| 12) Acrylonitrile             | 3.35 | 53  | 125751  | 24.282  | ug/l 100 |
| 13) Acetone                   | 2.66 | 43  | 246699  | 44.809  | ug/l 100 |
| 14) Carbon Disulfide          | 2.82 | 76  | 824621  | 11.488  | ug/l 100 |
| 15) Methylene Chloride        | 3.07 | 84  | 267230  | 9.952   | ug/l 100 |
| 16) trans-1,2-Dichloroethene  | 3.38 | 96  | 249171  | 10.991  | ug/l 100 |
| 17) 1,1-Dichloroethane        | 3.91 | 63  | 470230  | 9.242   | ug/l 100 |
| 18) 2-Butanone                | 4.76 | 43  | 369973  | 44.555  | ug/l 100 |
| 19) Cyclohexane               | 5.42 | 56  | 460954m | 10.506  | ug/l 100 |
| 20) Methylcyclohexane         | 6.79 | 83  | 464724  | 10.682  | ug/l 100 |
| 21) 2,2-Dichloropropane       | 4.70 | 77  | 396522  | 8.634   | ug/l 100 |
| 22) cis-1,2-Dichloroethene    | 4.71 | 96  | 265725  | 9.734   | ug/l 100 |
| 23) Diethyl Ether             | 2.40 | 59  | 200136  | 11.016  | ug/l 100 |
| 24) tert-Butyl Alcohol        | 3.23 | 59  | 205919  | 105.778 | ug/l 100 |
| 25) Methyl tert-Butyl Ether   | 3.41 | 73  | 621409  | 10.087  | ug/l 100 |
| 26) Bromochloromethane        | 5.01 | 128 | 105824  | 8.927   | ug/l 100 |
| 27) Chloroform                | 5.13 | 83  | 438379  | 8.134   | ug/l 100 |
| 28) 1,1,1-Trichloroethane     | 5.35 | 97  | 370287  | 8.113   | ug/l 100 |
| 29) 1,1-Dichloropropene       | 5.56 | 75  | 370973  | 9.729   | ug/l 100 |
| 30) Carbon Tetrachloride      | 5.56 | 117 | 312298  | 7.900   | ug/l 100 |
| 31) Isopropyl Ether           | 4.04 | 45  | 787650  | 9.675   | ug/l 100 |
| 32) Ethyl-t-butyl ether       | 4.55 | 59  | 714915  | 9.373   | ug/l 100 |
| 33) Tert-Amyl methyl ether    | 5.98 | 73  | 612639  | 9.378   | ug/l 100 |
| 34) Propionitrile             | 4.82 | 54  | 105524  | 48.229  | ug/l 100 |
| 35) Benzene                   | 5.81 | 78  | 1027499 | 9.505   | ug/l 100 |
| 36) 1,2-Dichloroethane        | 5.83 | 62  | 302405  | 7.918   | ug/l 100 |
| 37) Trichloroethene           | 6.57 | 130 | 263527  | 9.275   | ug/l 100 |
| 38) 1,2-Dichloropropane       | 6.82 | 63  | 274335  | 9.288   | ug/l 100 |
| 39) Methacrylonitrile         | 5.02 | 41  | 95840   | 9.170   | ug/l 100 |
| 40) Methyl acrylate           | 4.89 | 55  | 146988  | 9.949   | ug/l 100 |
| 41) Tetrahydrofuran           | 5.10 | 42  | 93470   | 17.943  | ug/l 100 |
| 42) 1-Chlorobutane            | 5.49 | 56  | 534498  | 9.760   | ug/l 100 |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

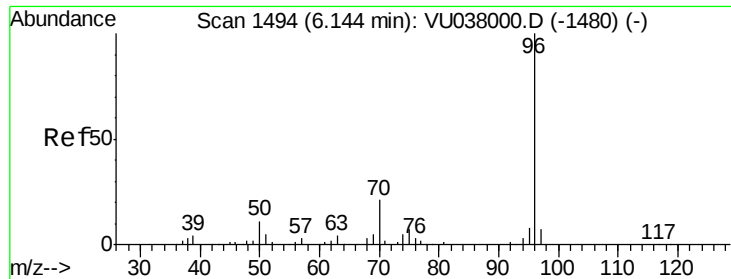
apatel  
 5/5/2020 11:15:47 AM

Quant Time: May 05 02:00:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue May 05 01:36:34 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 43) Dibromomethane             | 6.95  | 93   | 126378   | 8.470  | ug/l  | 100      |
| 44) Bromodichloromethane       | 7.13  | 83   | 327771   | 8.476  | ug/l  | 100      |
| 45) 4-Methyl-2-Pentanone       | 7.82  | 43   | 883686   | 44.040 | ug/l  | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.85 | 75   | 122739m  | 22.408 | ug/l  | 100      |
| 47) Methyl methacrylate        | 6.99  | 69   | 267177   | 21.187 | ug/l  | 100      |
| 48) Ethyl methacrylate         | 8.36  | 69   | 254188   | 10.225 | ug/l  | 100      |
| 49) Toluene                    | 7.99  | 92   | 659687   | 10.119 | ug/l  | 100      |
| 50) t-1,3-Dichloropropene      | 8.23  | 75   | 341487   | 9.622  | ug/l  | 100      |
| 51) cis-1,3-Dichloropropene    | 7.63  | 75   | 409003   | 9.988  | ug/l  | 100      |
| 52) 1,1,2-Trichloroethane      | 8.42  | 97   | 180766   | 9.011  | ug/l  | 100      |
| 53) 1,3-Dichloropropane        | 8.60  | 76   | 344388   | 9.575  | ug/l  | 100      |
| 54) 2-Hexanone                 | 8.71  | 43   | 622019   | 45.107 | ug/l  | 100      |
| 55) Dibromochloromethane       | 8.83  | 129  | 207598   | 8.494  | ug/l  | 100      |
| 56) 1,2-Dibromoethane          | 8.95  | 107  | 172103   | 9.150  | ug/l  | 100      |
| 58) Tetrachloroethene          | 8.57  | 164  | 256322   | 9.608  | ug/l  | 100      |
| 59) Chlorobenzene              | 9.47  | 112  | 698198   | 9.603  | ug/l  | 100      |
| 60) 1,1,1,2-Tetrachloroethane  | 9.56  | 131  | 215763   | 8.353  | ug/l  | 100      |
| 61) Pentachloroethane          | 11.44 | 117  | 164131   | 8.322  | ug/l  | 100      |
| 62) Hexachloroethane           | 12.49 | 117  | 167287   | 7.987  | ug/l  | 100      |
| 63) Ethyl Benzene              | 9.59  | 91   | 1265479  | 10.201 | ug/l  | 100      |
| 64) m/p-Xylenes                | 9.71  | 106  | 980571   | 20.878 | ug/l  | 100      |
| 65) o-Xylene                   | 10.12 | 106  | 470999   | 10.366 | ug/l  | 100      |
| 66) Styrene                    | 10.13 | 104  | 796639   | 10.731 | ug/l  | 100      |
| 67) Bromoform                  | 10.31 | 173  | 111384   | 8.685  | ug/l  | 100      |
| 69) Isopropylbenzene           | 10.50 | 105  | 1247957  | 10.113 | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 236460   | 8.988  | ug/l  | 100      |
| 71) 1,2,3-Trichloropropane     | 10.84 | 75   | 182520m  | 8.798  | ug/l  | 100      |
| 72) Bromobenzene               | 10.80 | 156  | 276689   | 9.266  | ug/l  | 100      |
| 73) n-propylbenzene            | 10.92 | 120  | 347844   | 10.610 | ug/l  | 100      |
| 74) 2-Chlorotoluene            | 11.00 | 126  | 282184   | 9.619  | ug/l  | 100      |
| 75) 1,3,5-Trimethylbenzene     | 11.10 | 105  | 1037709  | 9.817  | ug/l  | 100      |
| 76) 4-Chlorotoluene            | 11.11 | 126  | 296558   | 9.992  | ug/l  | 100      |
| 77) tert-Butylbenzene          | 11.44 | 119  | 981263   | 9.514  | ug/l  | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.48 | 105  | 1066672  | 10.016 | ug/l  | 100      |
| 79) sec-Butylbenzene           | 11.66 | 105  | 1410374  | 9.977  | ug/l  | 100      |
| 80) Nitrobenzene               | 13.23 | 77   | 34046    | 56.773 | ug/l  | 100      |
| 81) p-Isopropyltoluene         | 11.81 | 119  | 1153861  | 10.375 | ug/l  | 100      |
| 82) 1,3-Dichlorobenzene        | 11.76 | 146  | 562232   | 9.533  | ug/l  | 100      |
| 83) 1,4-Dichlorobenzene        | 11.85 | 146  | 562541   | 9.420  | ug/l  | 100      |
| 84) n-Butylbenzene             | 12.22 | 91   | 1164121  | 10.940 | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene        | 12.22 | 146  | 520004   | 9.135  | ug/l  | 100      |
| 86) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 35909    | 7.987  | ug/l  | 100      |
| 87) 1,2,4-Trichlorobenzene     | 13.87 | 180  | 379081   | 12.657 | ug/l  | 100      |
| 88) Hexachlorobutadiene        | 14.05 | 225  | 174446   | 9.754  | ug/l  | 100      |
| 89) Naphthalene                | 14.12 | 128  | 747902   | 14.403 | ug/l  | 100      |
| 90) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 343203   | 11.897 | ug/l  | 100      |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.14 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

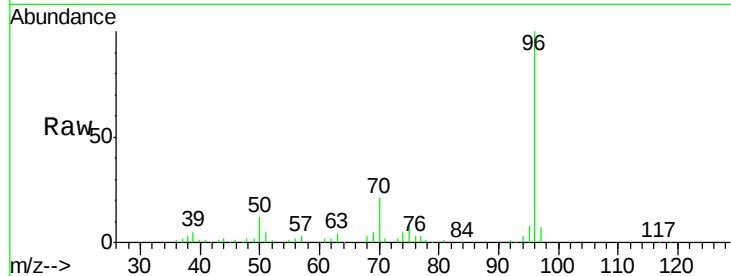
ClientSampleId :

VSTDICCC010

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 96    | Resp: | 89896 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 70        | 18.0  | 14.4  | 21.6  |
| 95        | 8.9   | 7.1   | 10.7  |
| 97        | 0.0   | 0.0   | 0.0   |

Manual Integrations  
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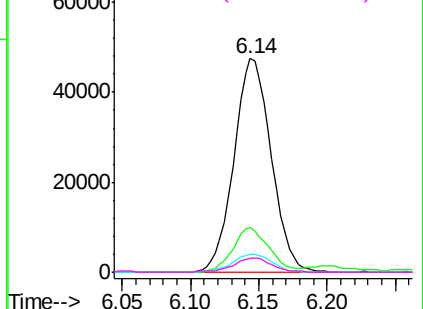
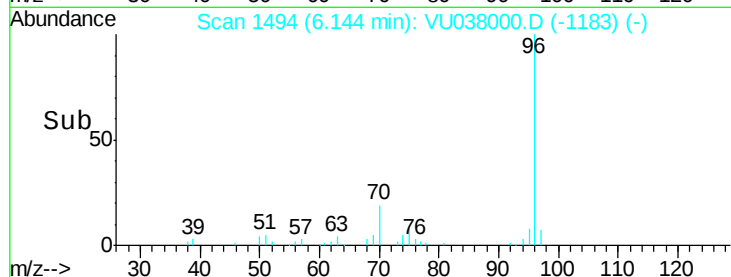


Abundance Ion 96.00 (95.70 to 96.70): VU038000.D (-1480) (-)

Ion 70.00 (69.70 to 70.70): VU038000.D (-1480) (-)

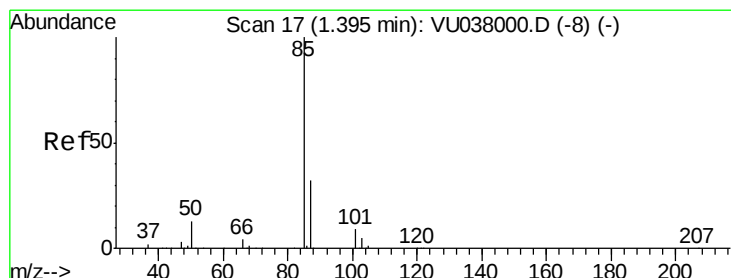
Ion 95.00 (94.70 to 95.70): VU038000.D (-1480) (-)

Ion 97.00 (96.70 to 97.70): VU038000.D (-1480) (-)



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#2

Dichlorodifluoromethane

Concen: 7.208 ug/l

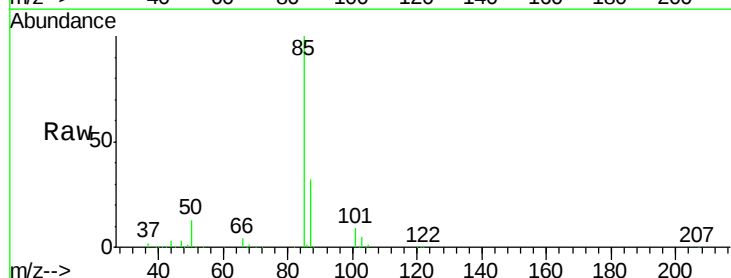
RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038000.D

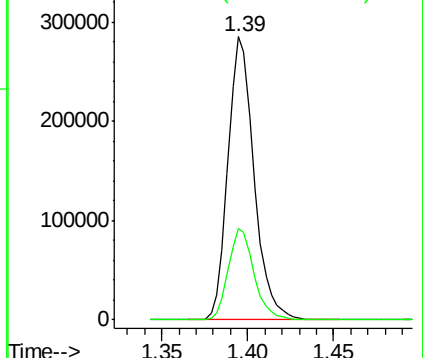
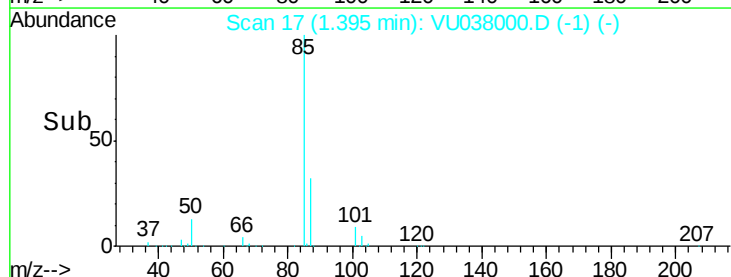
Acq: 04 May 2020 12:39

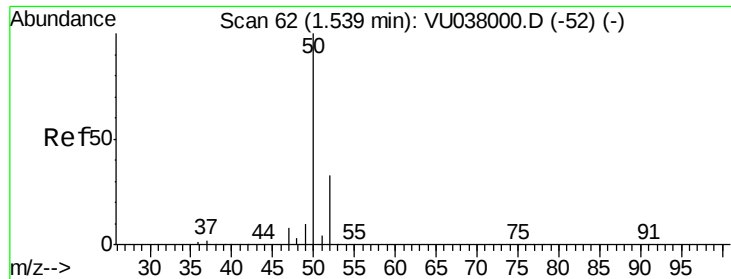
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 85    | Resp: | 300947 |
| Ion Ratio | Lower | Upper |        |
| 85        | 100   |       |        |
| 87        | 32.3  | 16.2  | 48.5   |



Abundance Ion 85.00 (84.70 to 85.70): VU038000.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU038000.D (-8) (-)





#3

Chloromethane

Concen: 8.117 ug/l

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

VSTDICCC010

Tot Ion: 50 Resp: 341761

Ion Ratio Lower Upper

50 100

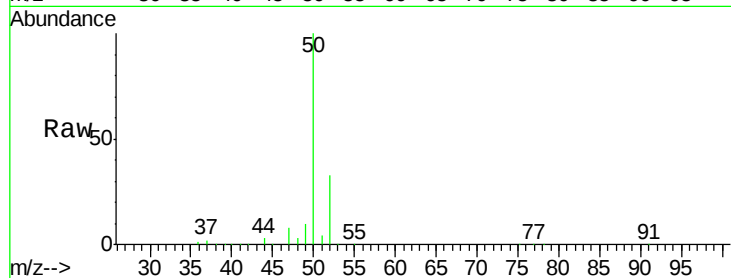
52 32.6 26.1 39.1

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VU038000.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU038000.D (-52) (-)

1.54

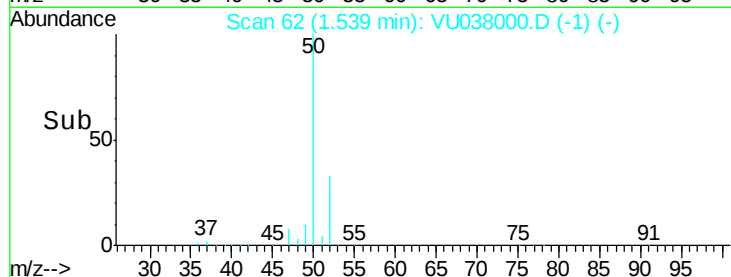
300000

200000

100000

0

Time-->



Abundance Ion 50.00 (49.70 to 50.70): VU038000.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU038000.D (-1) (-)

1.54

300000

200000

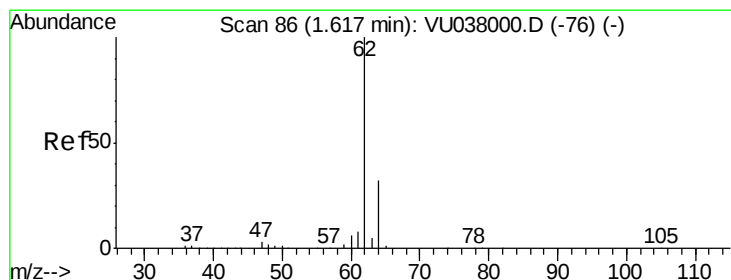
100000

0

Time-->

apatel

5/5/2020 11:15:47 AM



#4

Vinyl Chloride

Concen: 9.331 ug/l

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038000.D

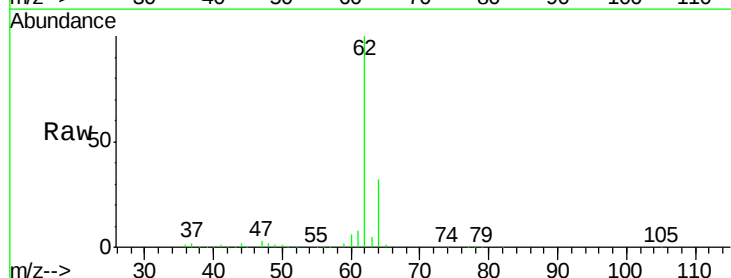
Acq: 04 May 2020 12:39

Tgt Ion: 62 Resp: 353107

Ion Ratio Lower Upper

62 100

64 32.1 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VU038000.D (-76) (-)

Ion 64.00 (63.70 to 64.70): VU038000.D (-76) (-)

1.62

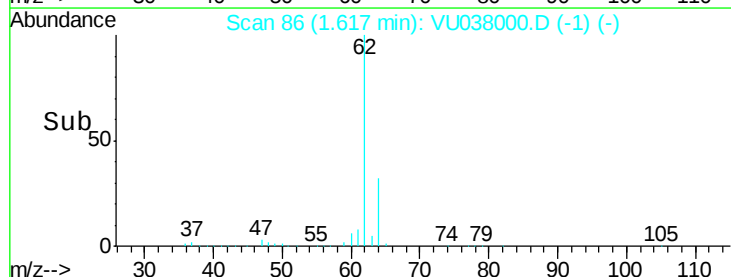
300000

200000

100000

0

Time-->



Abundance Ion 62.00 (61.70 to 62.70): VU038000.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU038000.D (-1) (-)

1.62

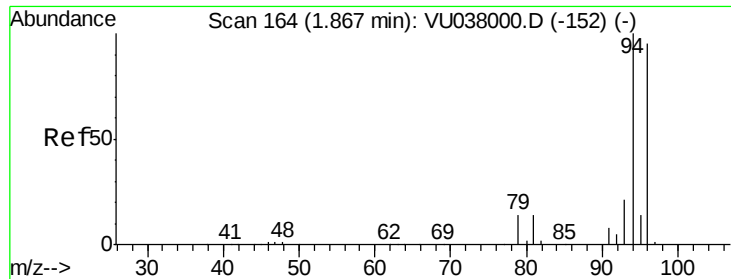
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 12.313 ug/l

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

VSTDICCC010

Tot Ion: 94 Resp: 175669

Ion Ratio Lower Upper

94 100

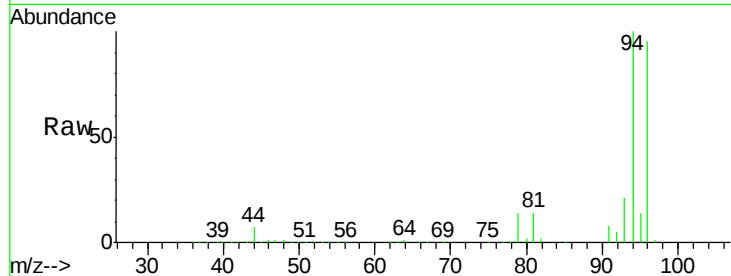
96 95.1 76.1 114.1

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Abundance Ion 94.00 (93.70 to 94.70): VU038000.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU038000.D (-152) (-)

1.87

100000

50000

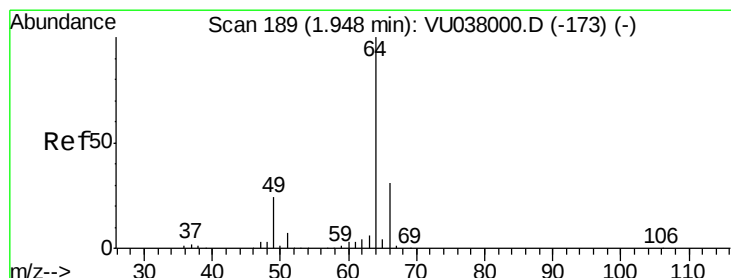
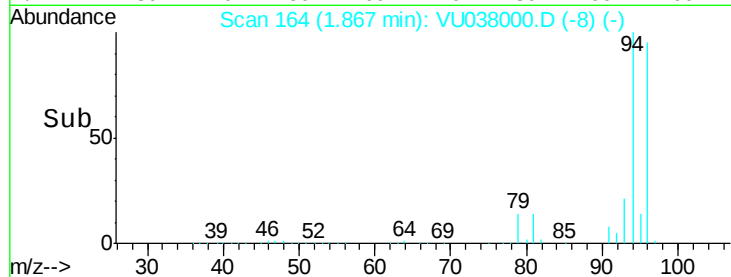
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1.80 1.85 1.90 1.95 2.00

Time-->

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#6

Chloroethane

Concen: 11.141 ug/l

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU038000.D

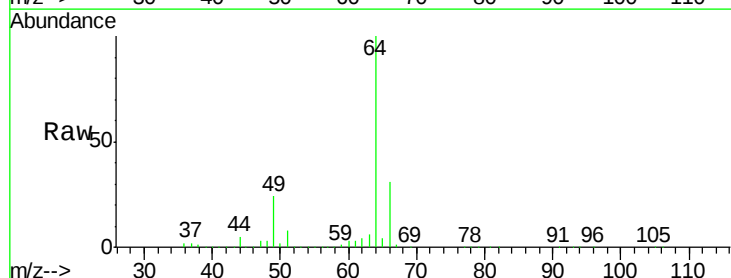
Acq: 04 May 2020 12:39

Tgt Ion: 64 Resp: 211146

Ion Ratio Lower Upper

64 100

66 31.0 24.8 37.2



Abundance Ion 64.00 (63.70 to 64.70): VU038000.D (-173) (-)

Ion 66.00 (65.70 to 66.70): VU038000.D (-173) (-)

1.95

150000

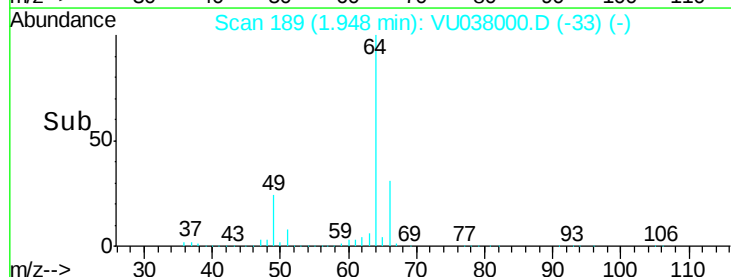
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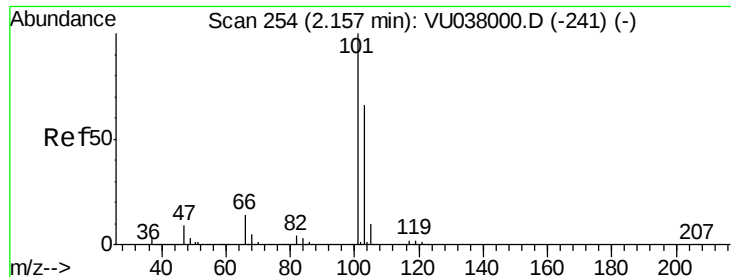
50000

0

1.85 1.90 1.95 2.00 2.05

Time-->





#7

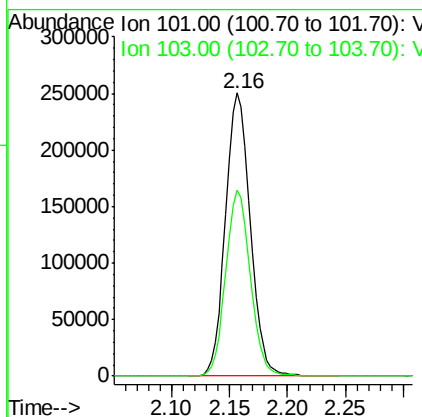
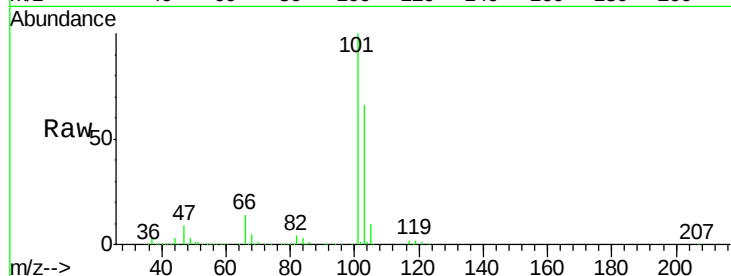
Trichlorofluoromethane  
Concen: 8.153 ug/l  
RT: 2.16 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 65.7  | 52.6  | 78.8  |

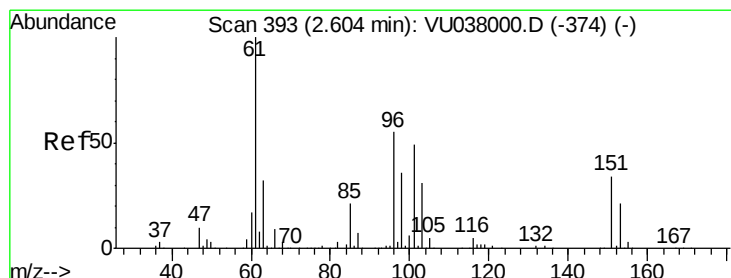
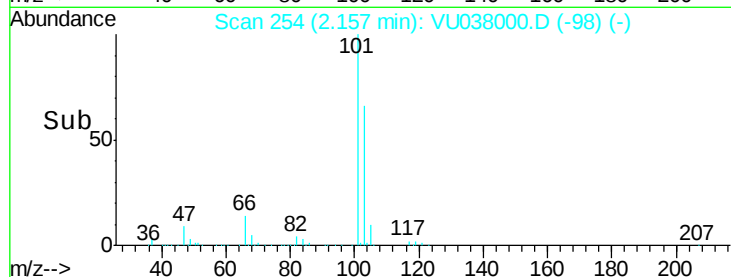
Manual Integrations  
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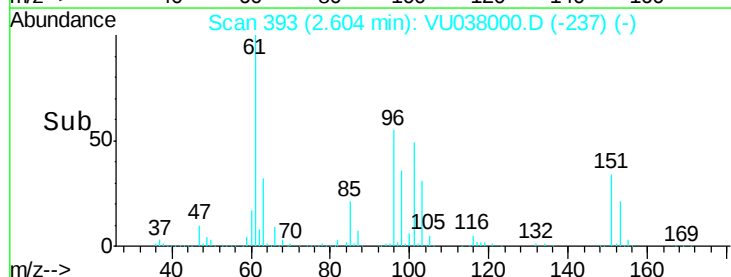
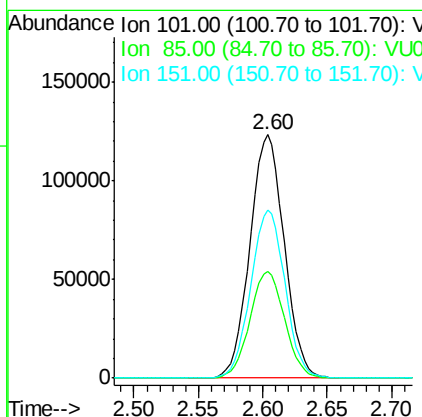
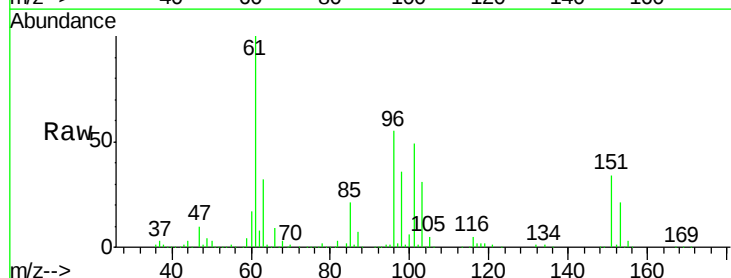
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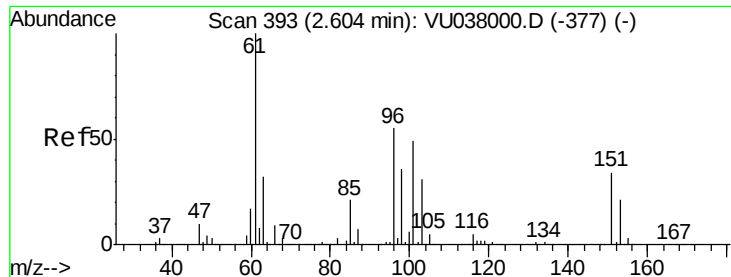


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 10.341 ug/l  
RT: 2.60 min Scan# 393  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 44.4  | 35.5  | 53.3  |
| 151     | 69.0  | 55.2  | 82.8  |





#9

1,1-Dichloroethene

Concen: 10.622 ug/l

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

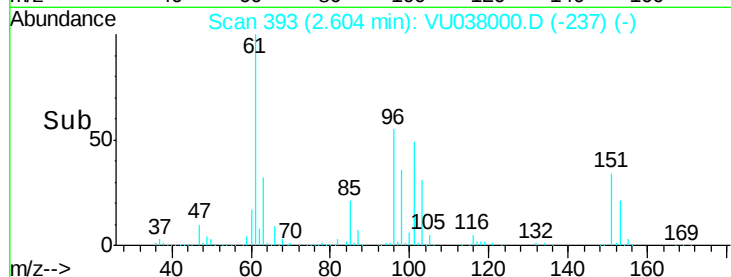
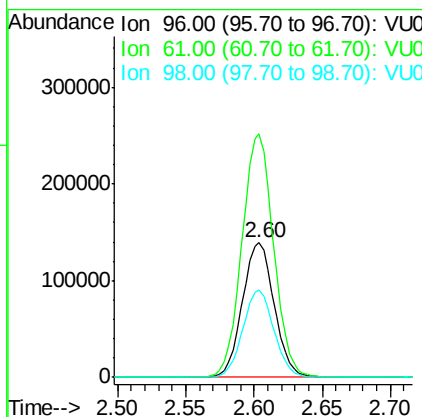
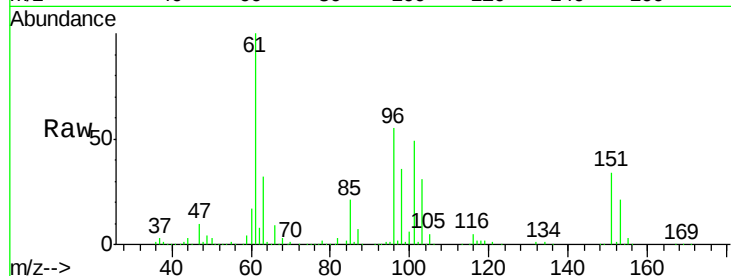
ClientSampled :

VSTDICCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 96    | Resp: | 225058 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 181.0 | 0.0   | 543.0  |
| 98        | 64.7  | 0.0   | 129.4  |

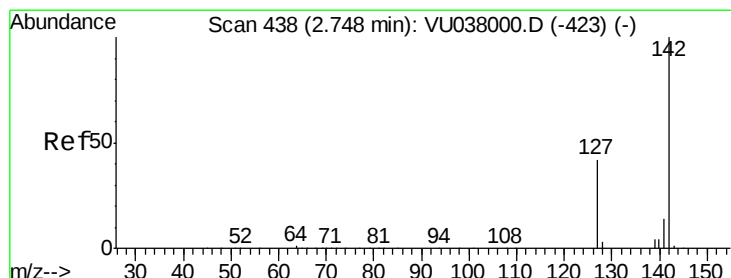
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#10

Iodomethane

Concen: 19.400 ug/l

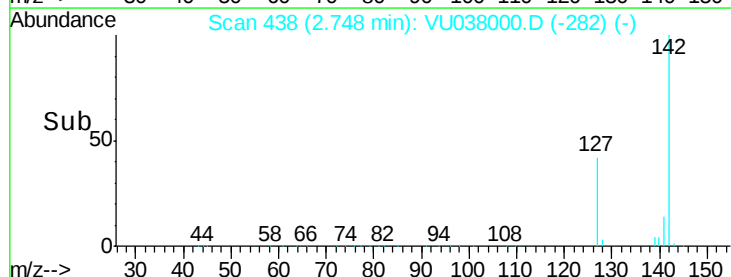
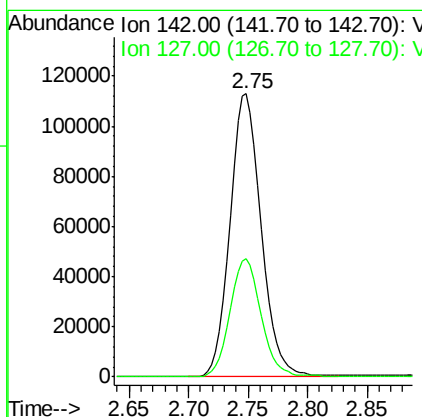
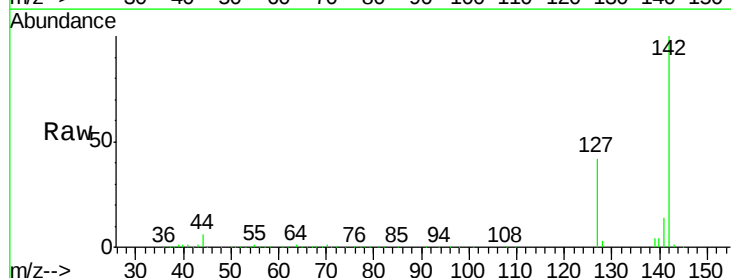
RT: 2.75 min Scan# 438

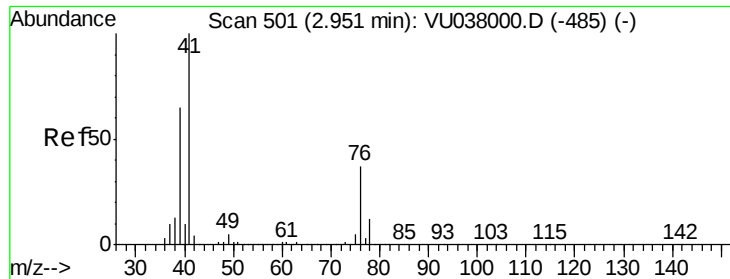
Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 205219 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 41.9  | 33.5  | 50.3   |





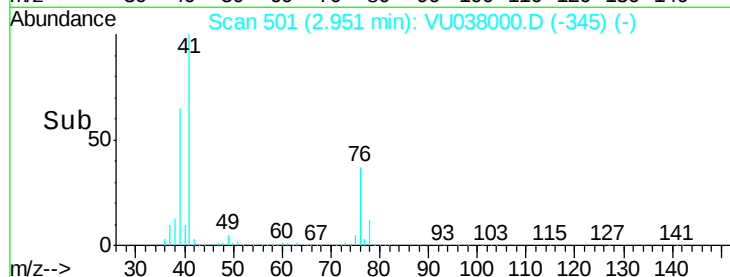
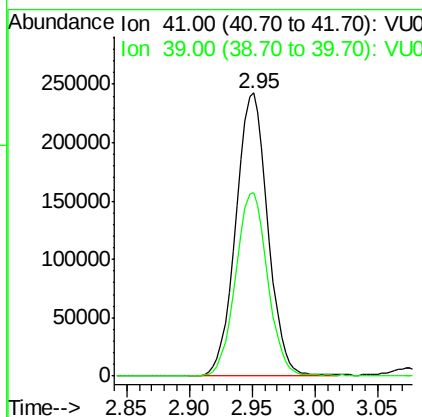
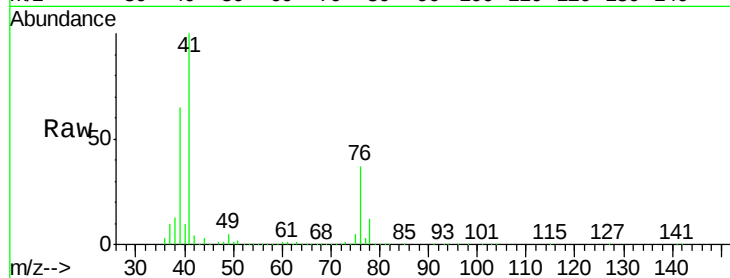
#11  
Allvl Chloride  
Concen: 10.404 ug/l  
RT: 2.95 min Scan# 501  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDICCC010

Tot Ion: 41 Resp: 426882  
Ion Ratio Lower Upper  
41 100  
39 64.6 51.7 77.5

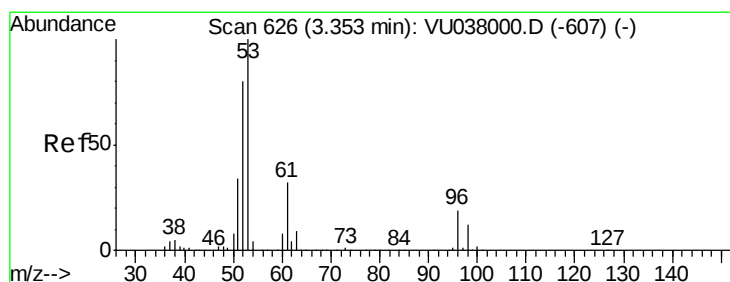
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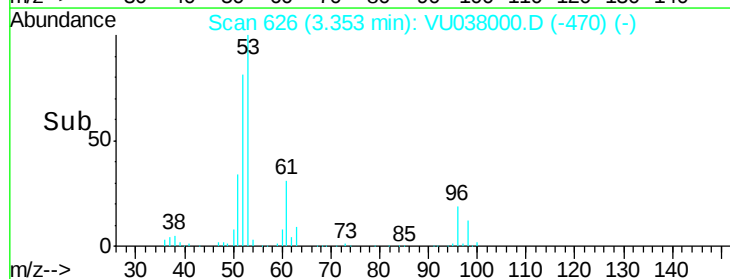
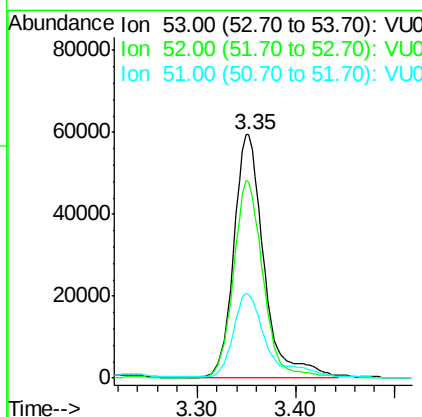
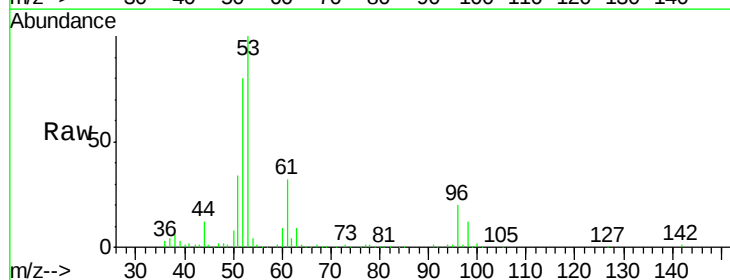
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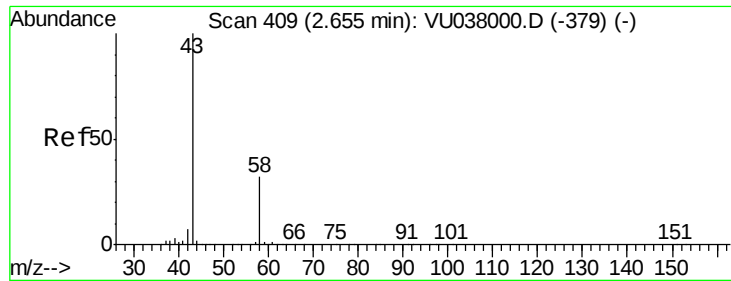
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#12  
Acrylonitrile  
Concen: 24.282 ug/l  
RT: 3.35 min Scan# 626  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Tgt Ion: 53 Resp: 125751  
Ion Ratio Lower Upper  
53 100  
52 79.1 63.3 94.9  
51 37.7 30.2 45.2





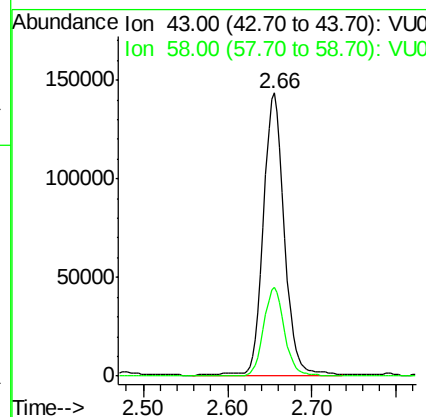
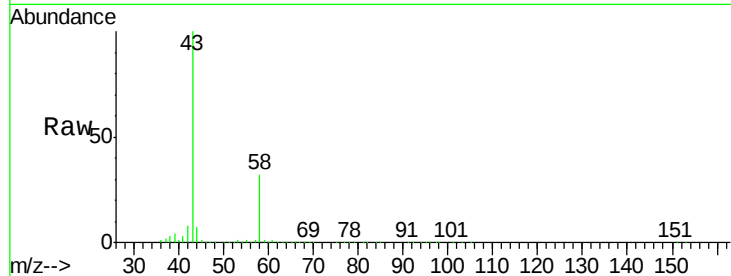
#13  
Acetone  
Concen: 44.809 ug/l  
RT: 2.66 min Scan# 409  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 31.5  | 25.2  | 37.8  |

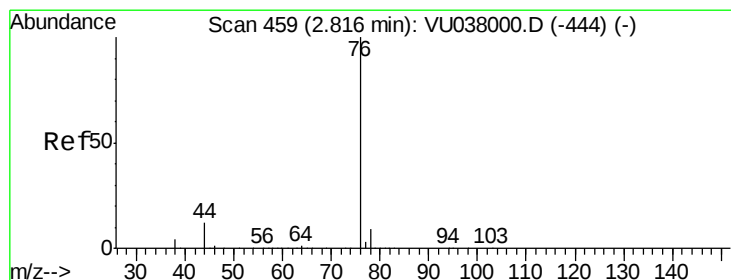
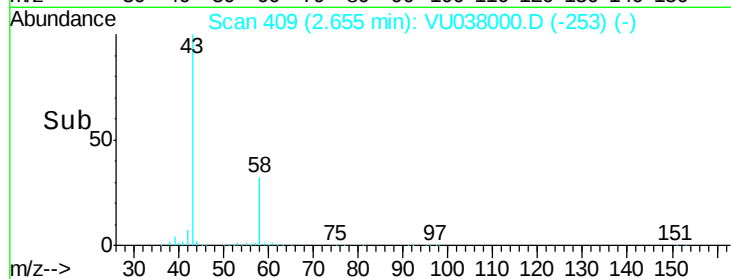
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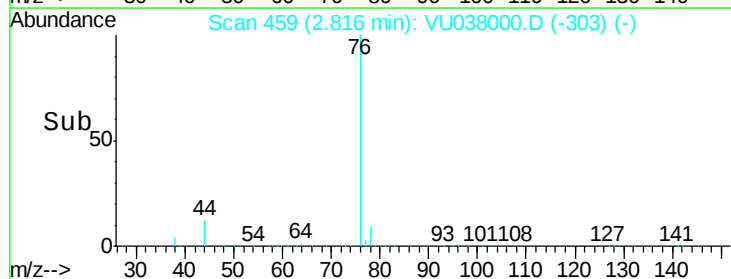
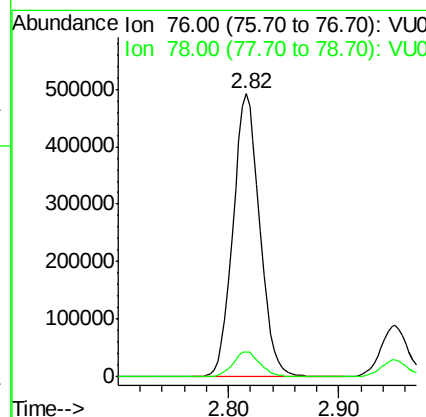
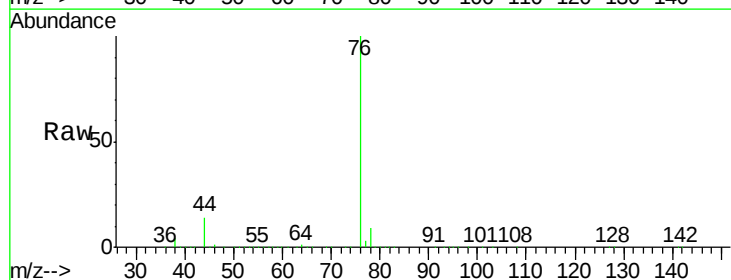
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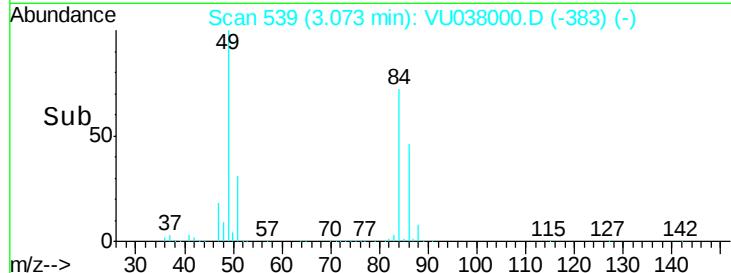
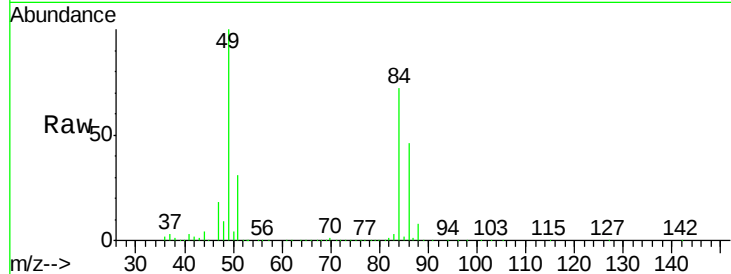
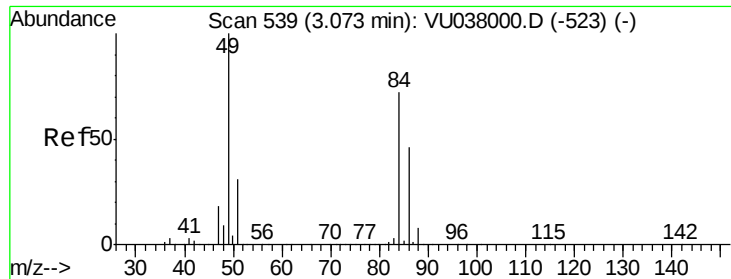
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#14  
Carbon Disulfide  
Concen: 11.488 ug/l  
RT: 2.82 min Scan# 459  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

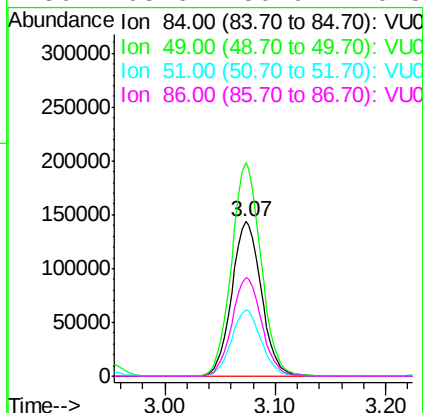
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 8.8   | 7.0   | 10.6  |





#15  
Methvlene Chloride  
Concen: 9.952 ug/l  
RT: 3.07 min Scan# 539  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 84      | 100   |       |       |       |
| 49      | 138.3 | 110.6 | 166.0 |       |
| 51      | 42.7  | 0.0   | 85.4  |       |
| 86      | 63.6  | 50.9  | 76.3  |       |



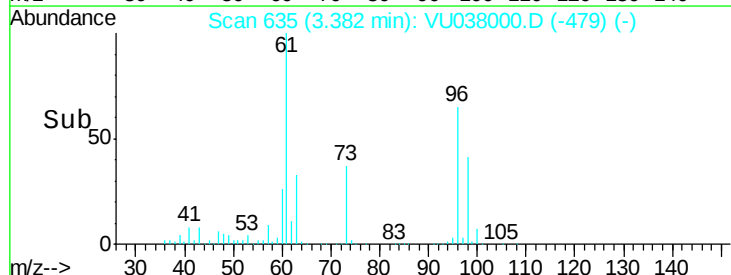
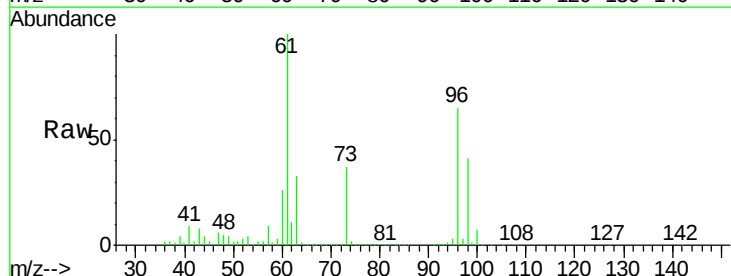
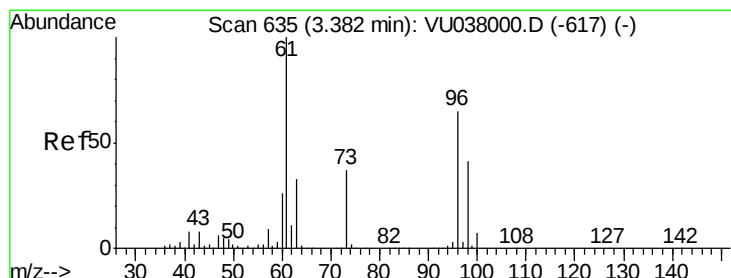
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

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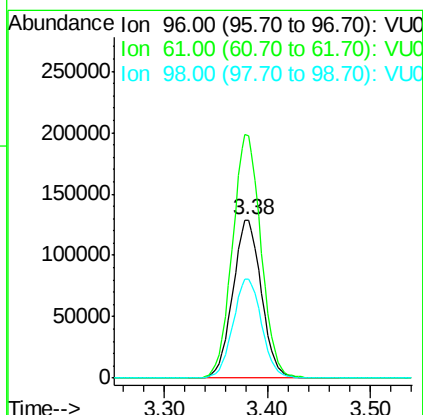
apatel

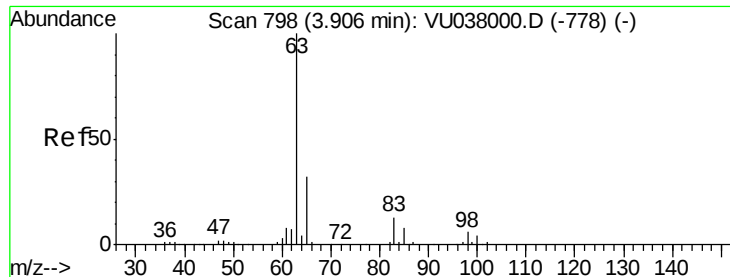
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#16  
trans-1,2-Dichloroethene  
Concen: 10.991 ug/l  
RT: 3.38 min Scan# 635  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |
| 61      | 153.0 | 122.4 | 183.6 |       |
| 98      | 62.6  | 50.1  | 75.1  |       |





#17

1,1-Dichloroethane

Concen: 9.242 ug/l

RT: 3.91 min Scan# 798

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

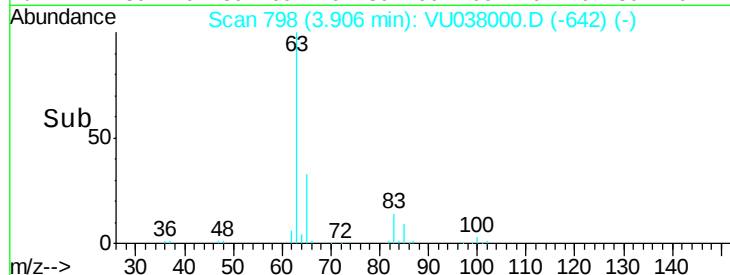
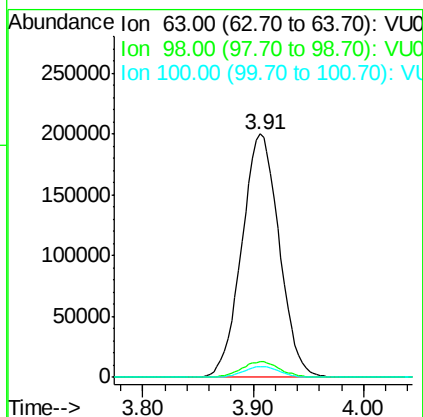
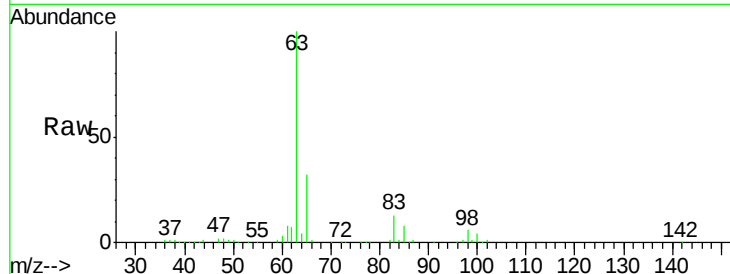
ClientSampleId :

VSTDICCC010

| Tot Ion   | 63    | Resp  | 470230 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 98        | 6.3   | 3.1   | 9.4    |
| 100       | 4.4   | 2.2   | 6.6    |

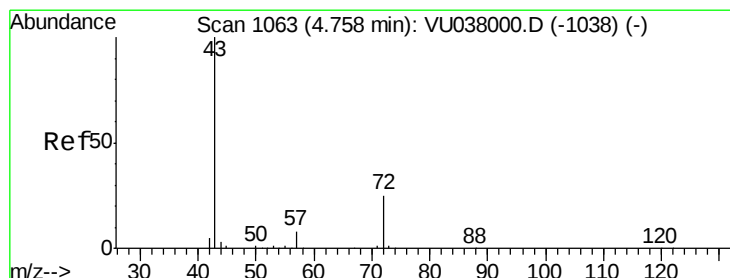
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#18

2-Butanone

Concen: 44.555 ug/l

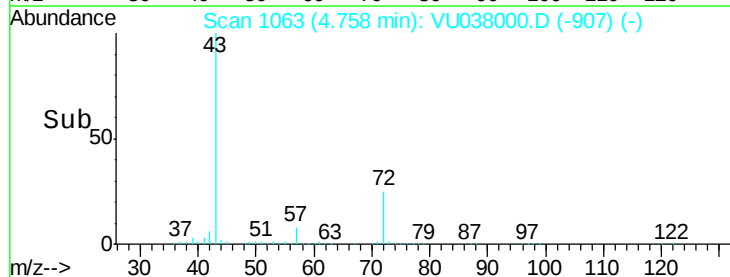
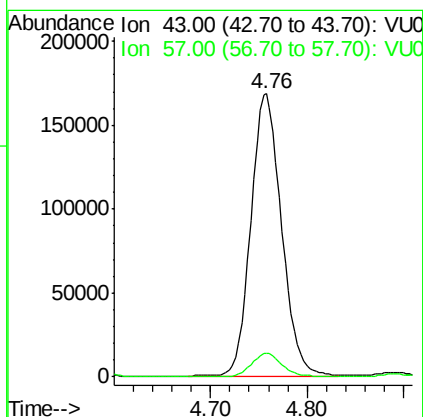
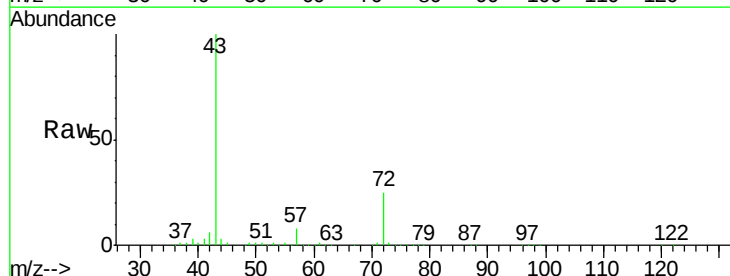
RT: 4.76 min Scan# 1063

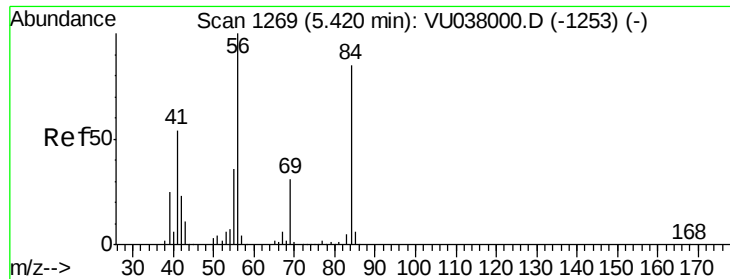
Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

| Tgt Ion   | 43    | Resp  | 369973 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 57        | 8.3   | 0.0   | 16.6   |





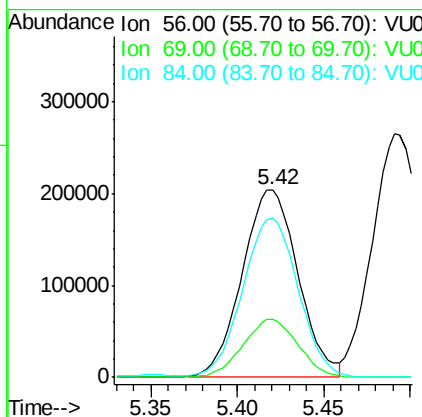
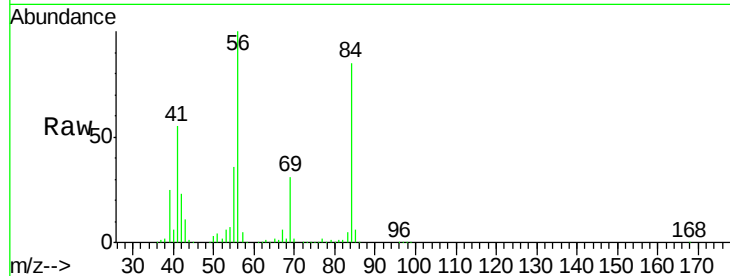
#19  
Cyclohexane  
Concen: 10.506 ug/l m  
RT: 5.42 min Scan# 1269  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 30.4  | 24.3  | 36.5  |
| 84      | 82.9  | 66.3  | 99.5  |

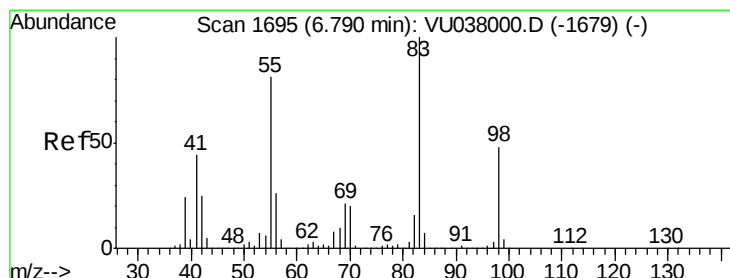
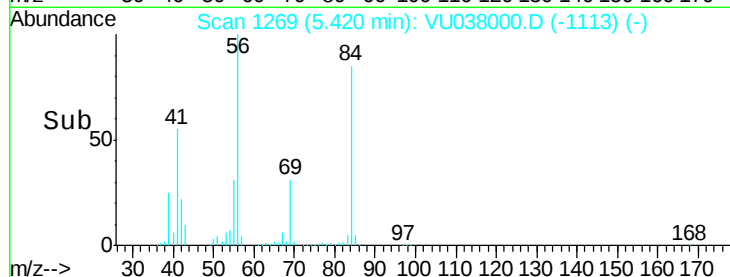
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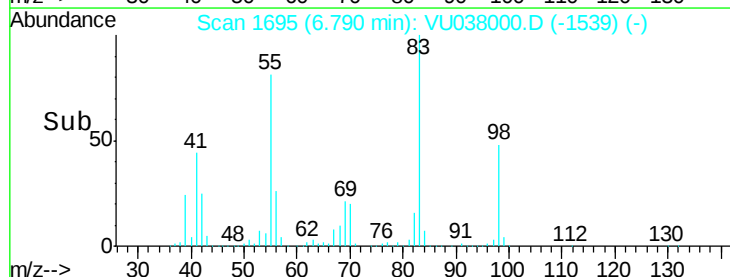
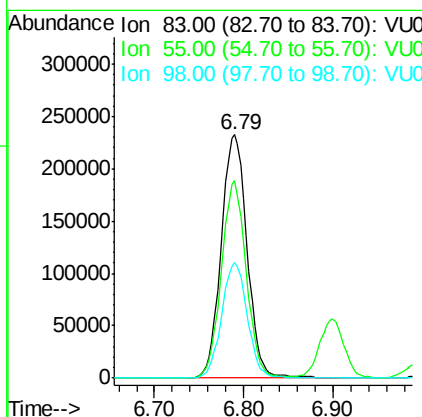
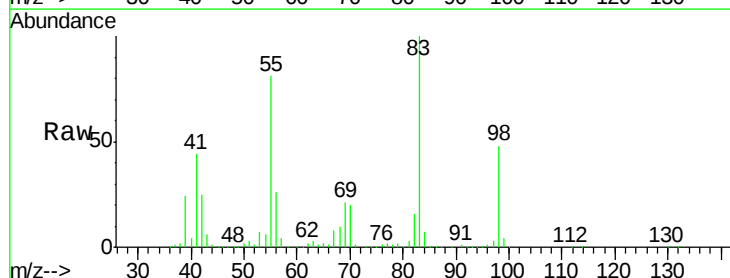
apatel

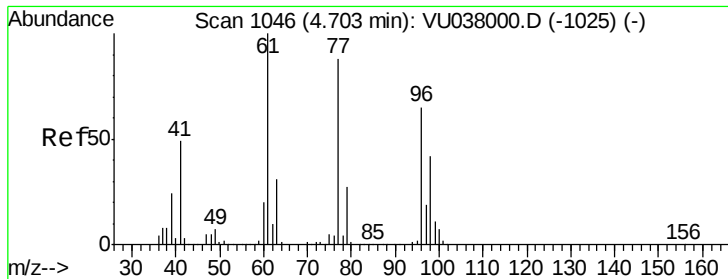
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#20  
Methylcyclohexane  
Concen: 10.682 ug/l  
RT: 6.79 min Scan# 1695  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 76.9  | 61.5  | 92.3  |
| 98      | 46.6  | 37.3  | 55.9  |





#21

2,2-Dichloropropane

Concen: 8.634 ug/l

RT: 4.70 min Scan# 1046

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampled :

VSTDICCC010

Tot Ion: 77 Resp: 396522

Ion Ratio Lower Upper

77 100

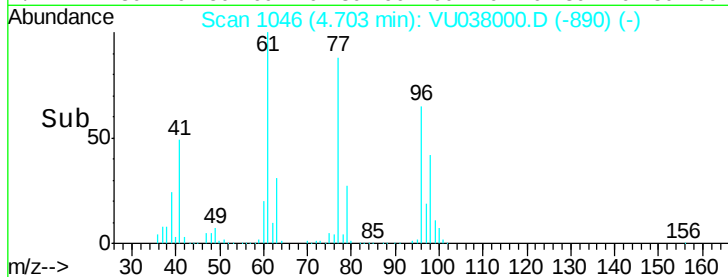
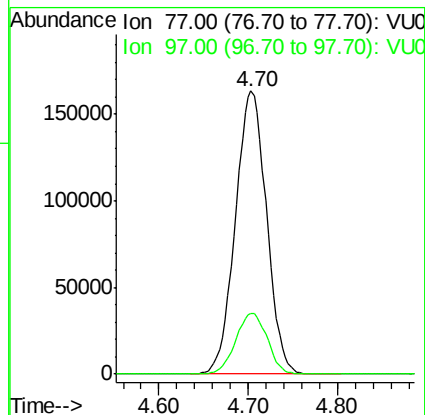
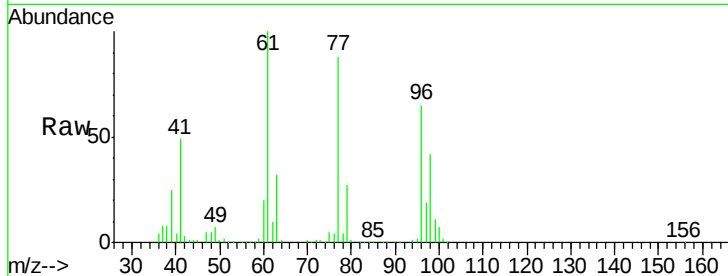
97 21.8 17.4 26.2

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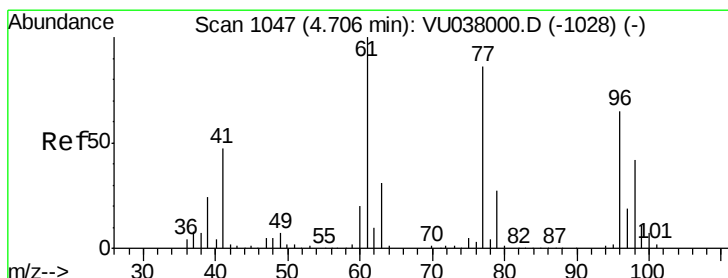
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#22

cis-1,2-Dichloroethene

Concen: 9.734 ug/l

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

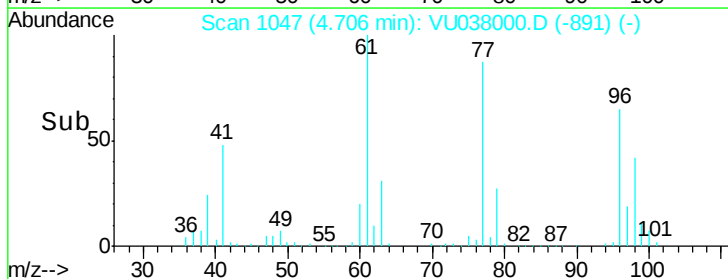
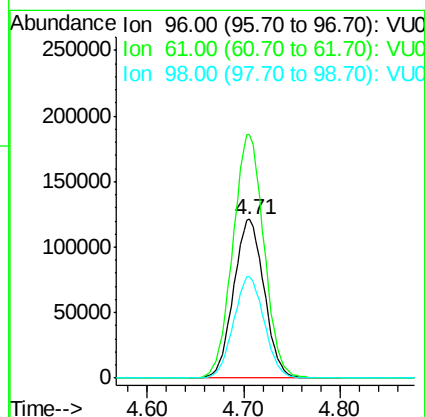
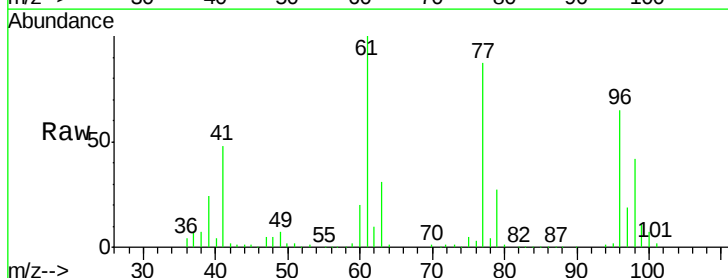
Tgt Ion: 96 Resp: 265725

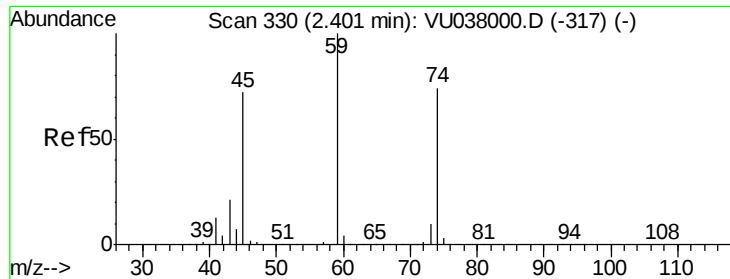
Ion Ratio Lower Upper

96 100

61 155.7 0.0 389.3

98 64.2 32.1 96.3





#23

Diethyl Ether

Concen: 11.016 ug/l

RT: 2.40 min Scan# 330

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

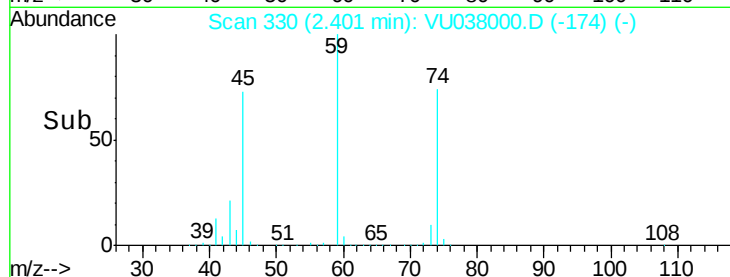
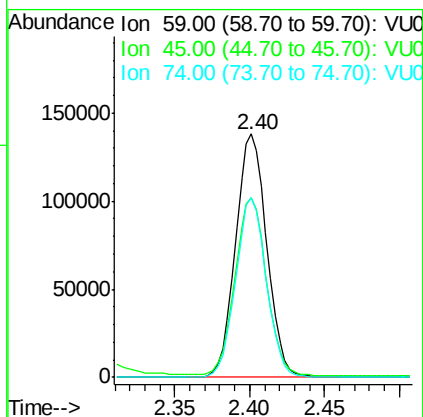
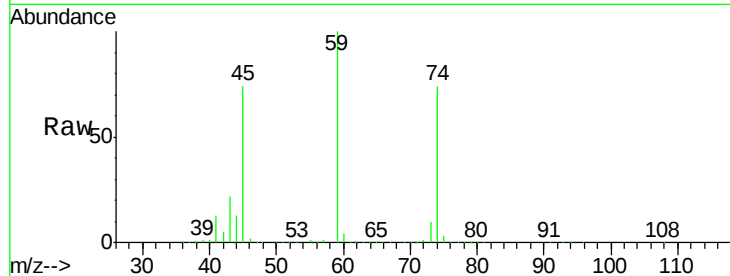
ClientSampleId :

VSTDICCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 59    | Resp: | 200136 |
| Ion Ratio | Lower | Upper |        |
| 59        | 100   |       |        |
| 45        | 74.7  | 59.8  | 89.6   |
| 74        | 72.8  | 58.2  | 87.4   |

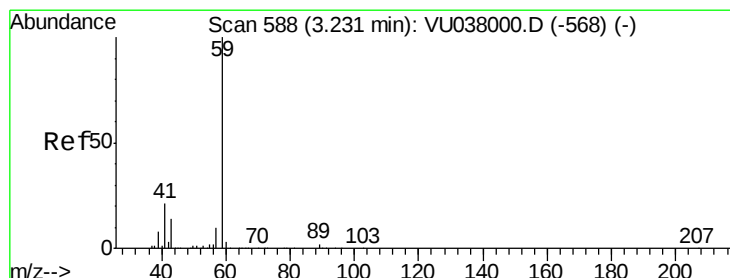
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#24

tert-Butyl Alcohol

Concen: 105.778 ug/l

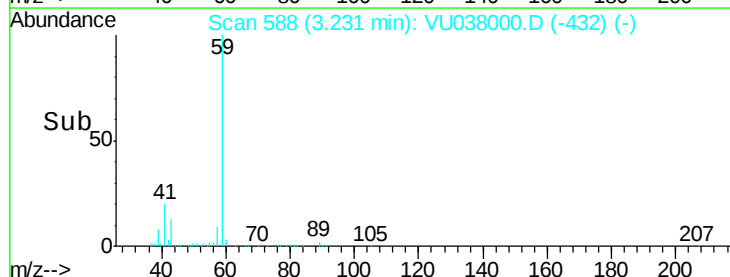
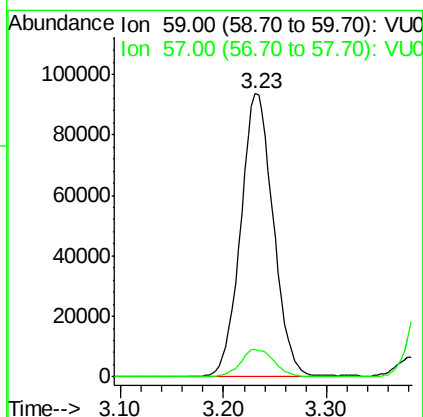
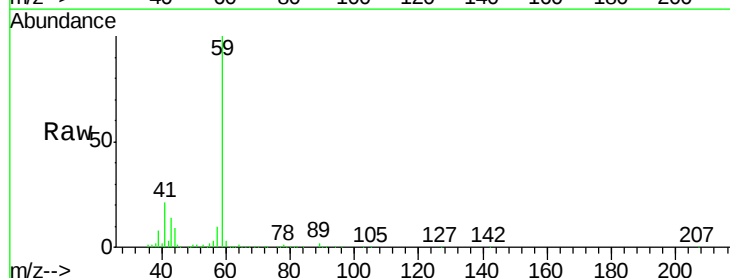
RT: 3.23 min Scan# 588

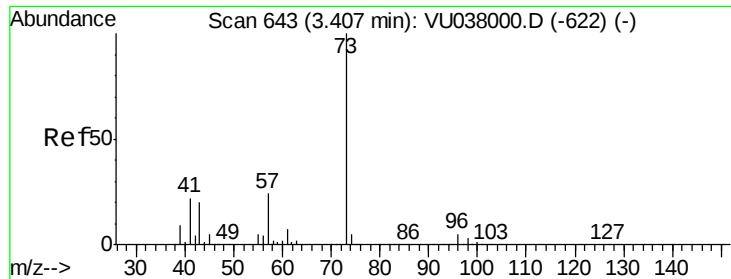
Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 59    | Resp: | 205919 |
| Ion Ratio | Lower | Upper |        |
| 59        | 100   |       |        |
| 57        | 10.3  | 8.2   | 12.4   |





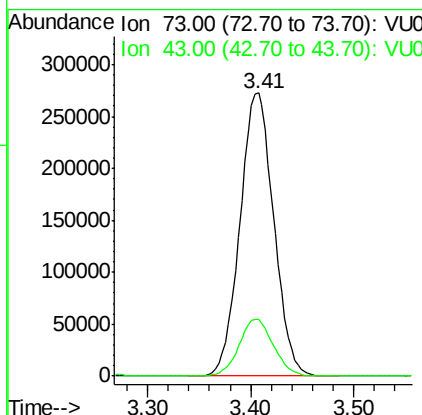
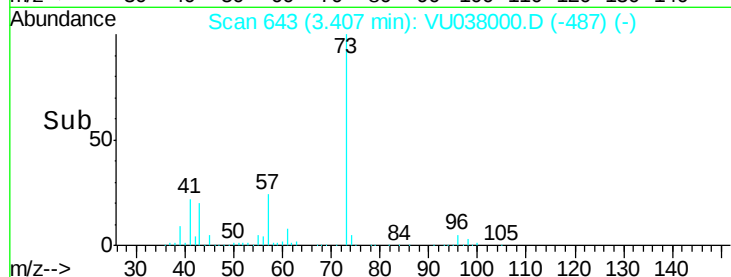
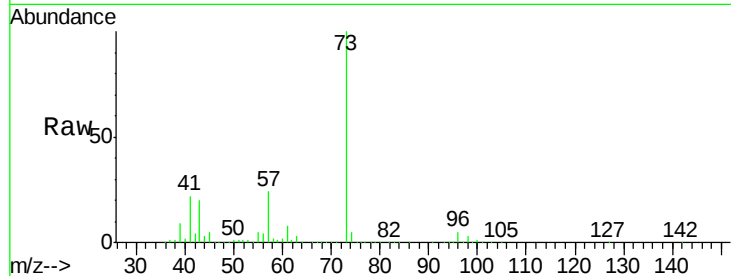
#25  
Methvl tert-Butvl Ether  
Concen: 10.087 ug/l  
RT: 3.41 min Scan# 643  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

Tot Ion: 73 Resp: 621409  
Ion Ratio Lower Upper  
73 100  
43 20.2 16.2 24.2

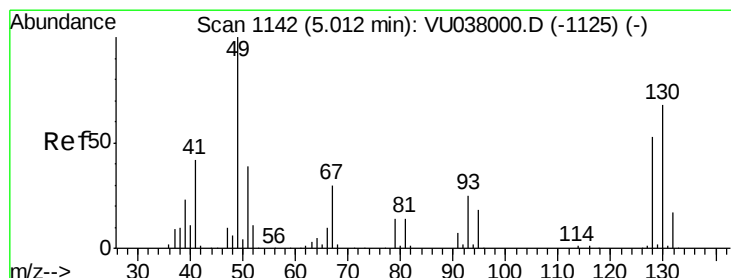
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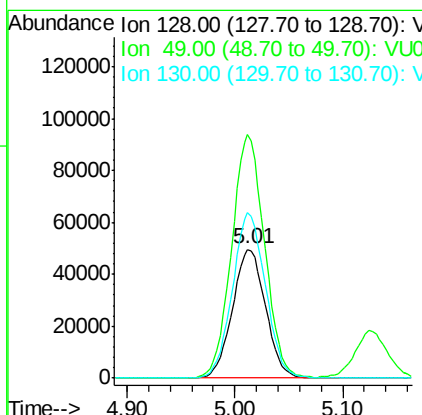
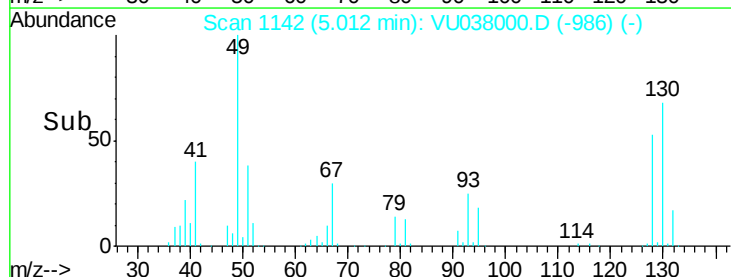
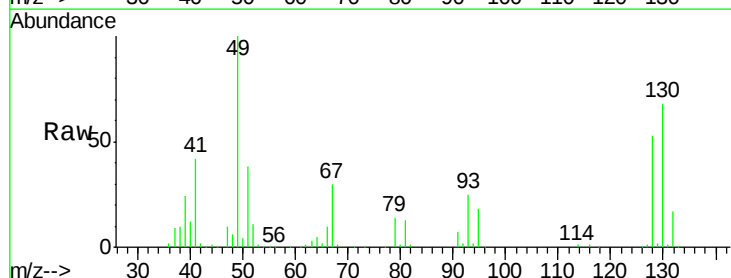
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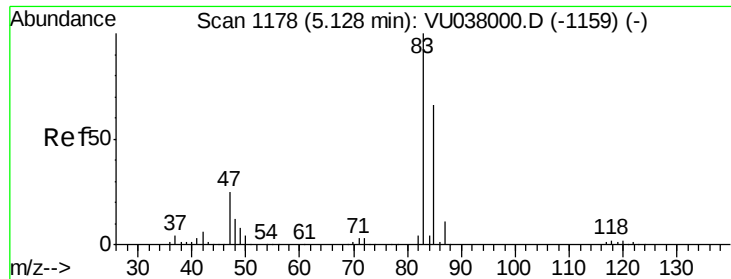
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#26  
Bromochloromethane  
Concen: 8.927 ug/l  
RT: 5.01 min Scan# 1142  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Tgt Ion: 128 Resp: 105824  
Ion Ratio Lower Upper  
128 100  
49 188.0 0.0 376.0  
130 128.2 102.6 153.8





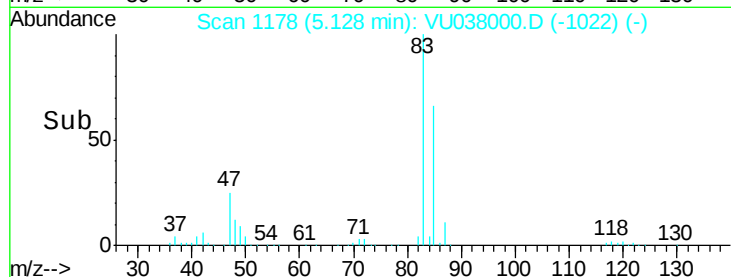
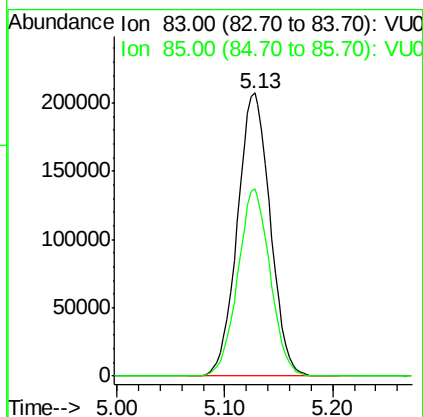
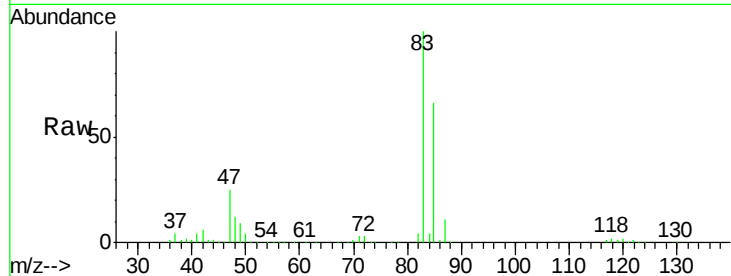
#27  
Chloroform  
Concen: 8.134 ug/l  
RT: 5.13 min Scan# 1178  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 85      | 66.0  | 0.0  | 132.0 |       |

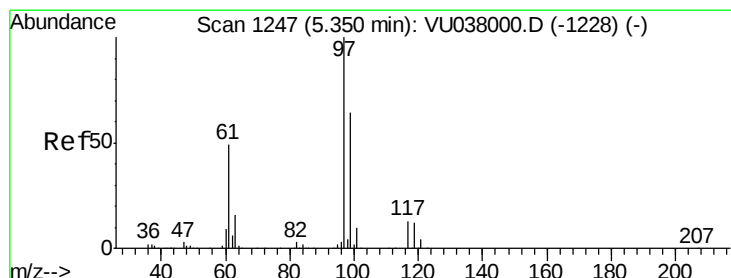
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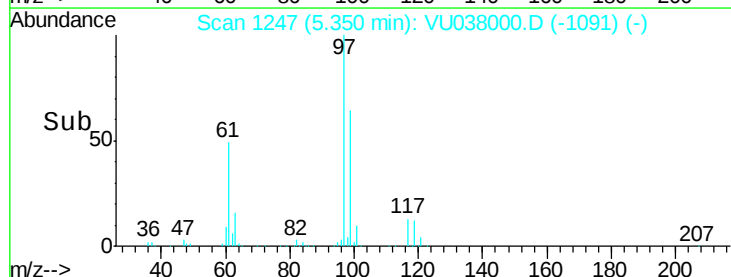
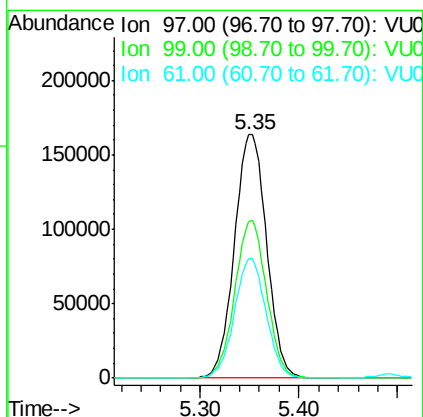
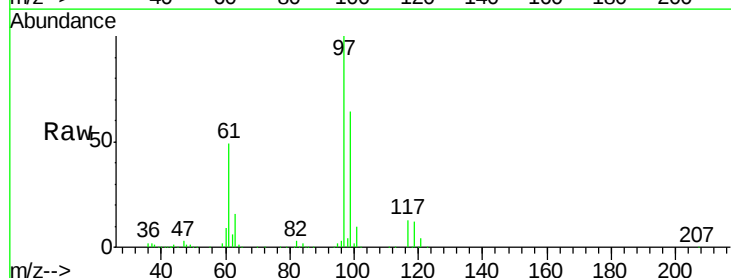
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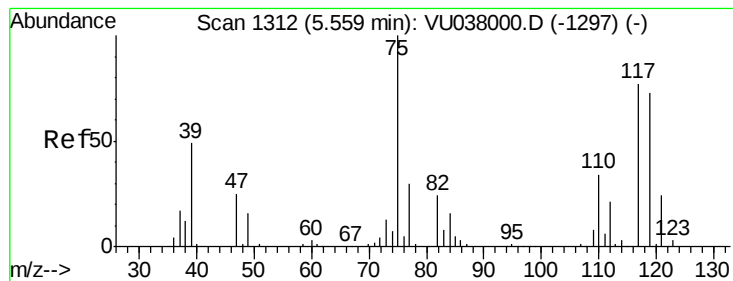
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#28  
1,1,1-Trichloroethane  
Concen: 8.113 ug/l  
RT: 5.35 min Scan# 1247  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 97      | 100   |      |       |       |
| 99      | 63.9  | 31.9 | 95.9  |       |
| 61      | 48.3  | 24.1 | 72.4  |       |





#29

1,1-Dichloropropene

Concen: 9.729 ug/l

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 370973

Ion Ratio Lower Upper

75 100

110 33.4 16.7 50.1

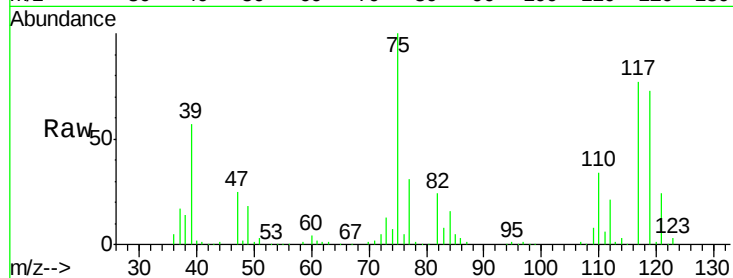
77 30.6 24.5 36.7

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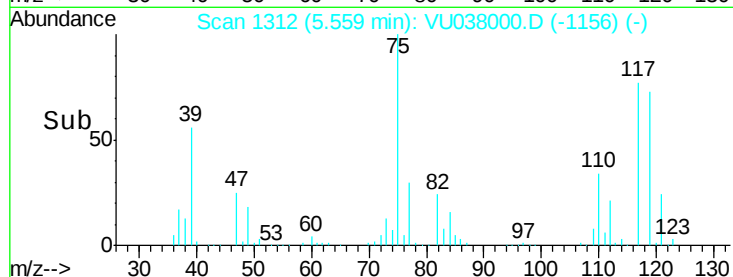
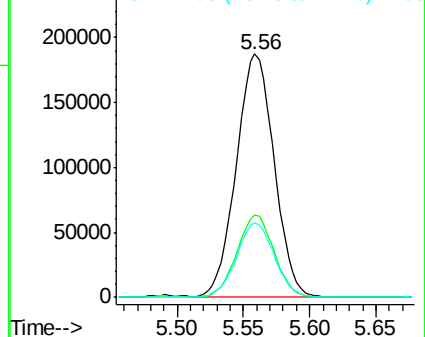
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Abundance Ion 75.00 (74.70 to 75.70): VU038000.D (-1297) (-)

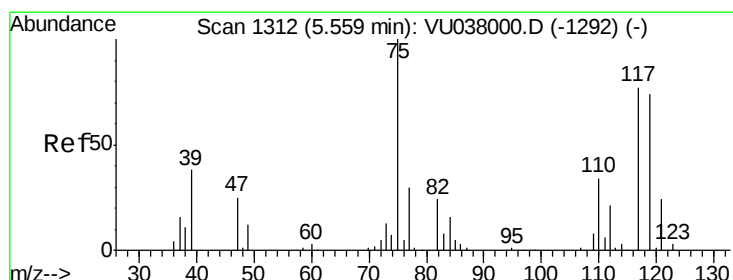
Ion 110.00 (109.70 to 110.70): VU038000.D (-1297) (-)

Ion 77.00 (76.70 to 77.70): VU038000.D (-1297) (-)



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#30

Carbon Tetrachloride

Concen: 7.900 ug/l

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

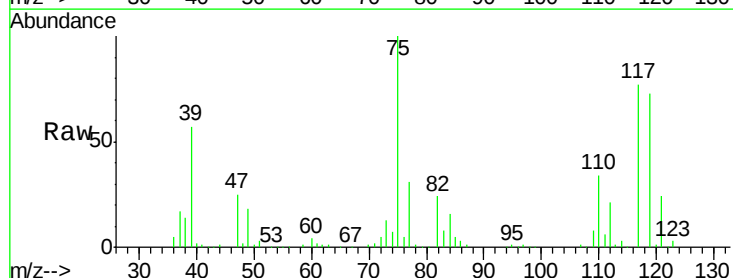
Tgt Ion: 117 Resp: 312298

Ion Ratio Lower Upper

117 100

119 95.4 76.3 114.5

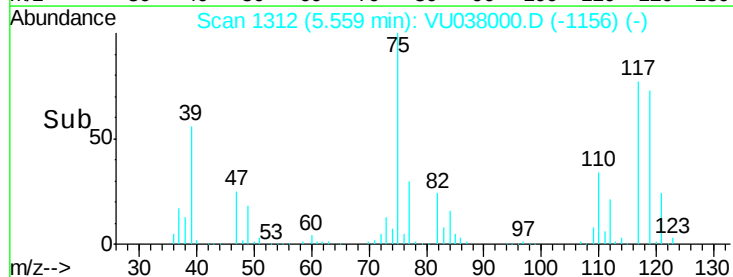
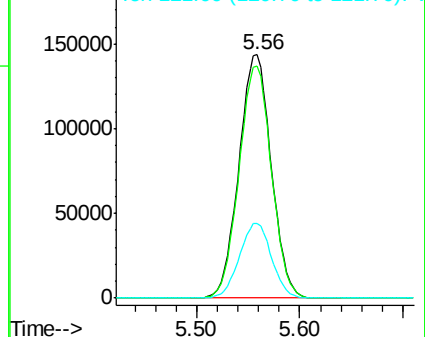
121 30.9 24.7 37.1

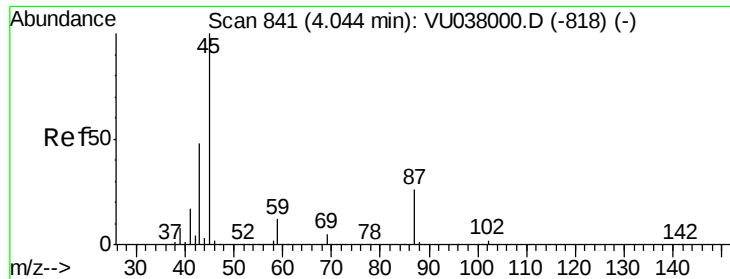


Abundance Ion 117.00 (116.70 to 117.70): VU038000.D (-1292) (-)

Ion 119.00 (118.70 to 119.70): VU038000.D (-1292) (-)

Ion 121.00 (120.70 to 121.70): VU038000.D (-1292) (-)





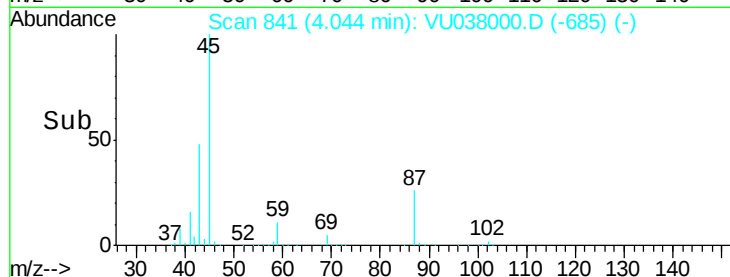
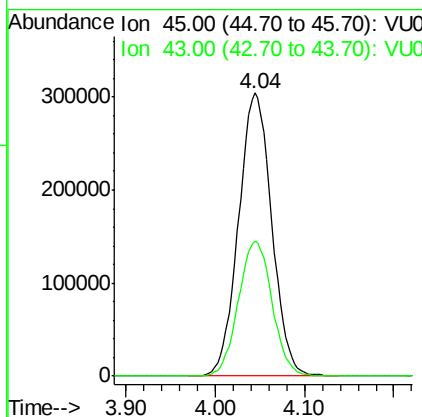
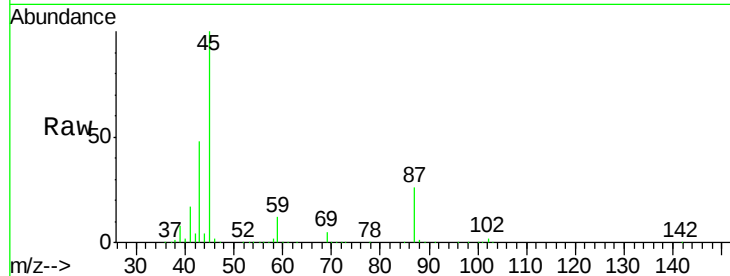
#31  
Isopropyl Ether  
Concen: 9.675 ug/l  
RT: 4.04 min Scan# 841  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

Tot Ion: 45 Resp: 787650  
Ion Ratio Lower Upper  
45 100  
43 48.4 24.2 72.6

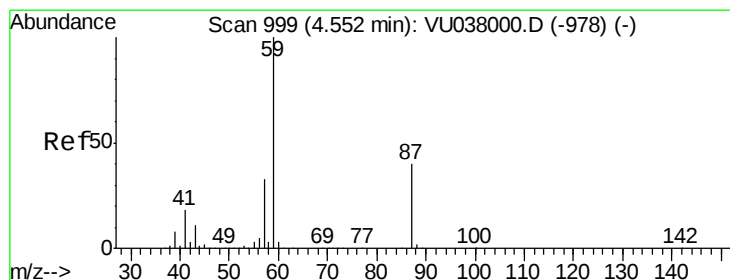
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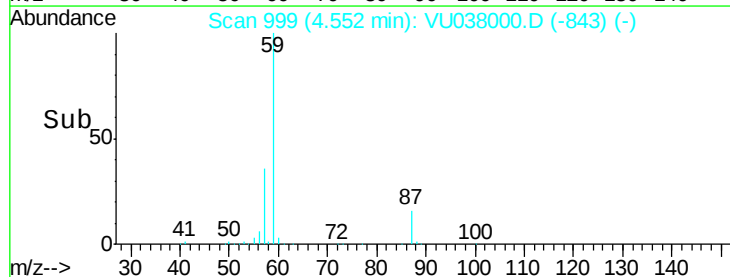
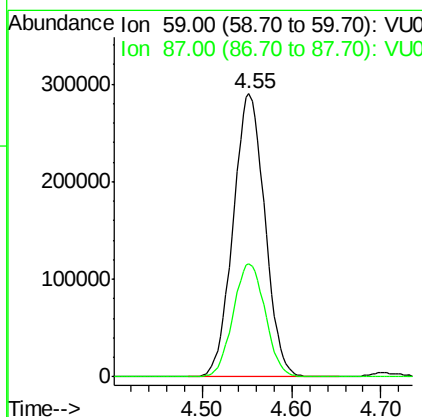
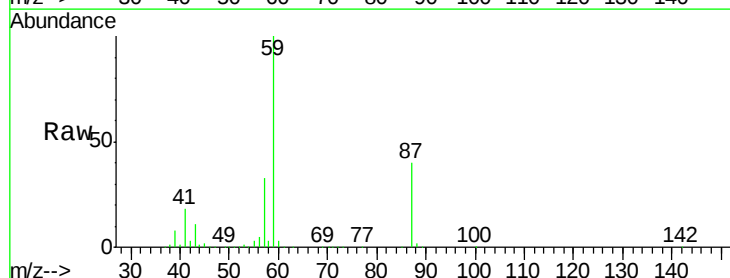
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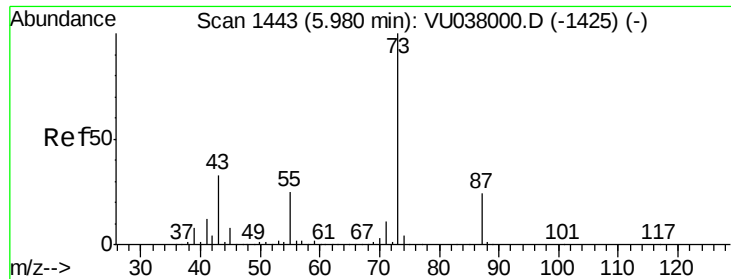
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#32  
Ethyl-t-butyl ether  
Concen: 9.373 ug/l  
RT: 4.55 min Scan# 999  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Tgt Ion: 59 Resp: 714915  
Ion Ratio Lower Upper  
59 100  
87 40.5 32.4 48.6





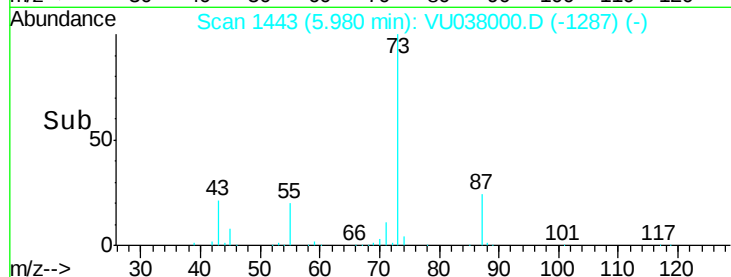
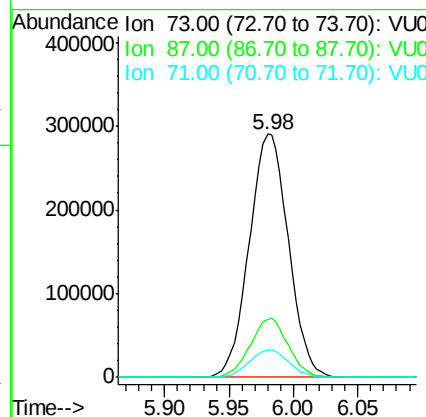
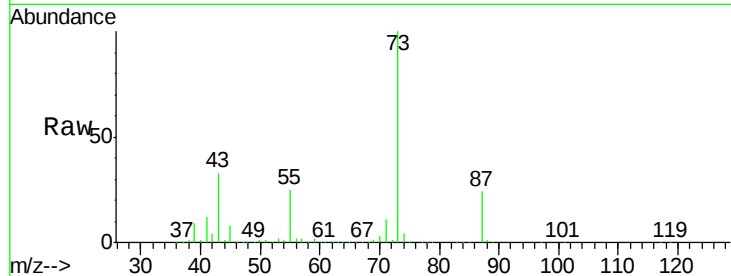
#33  
Tert-Butyl methyl ether  
Concen: 9.378 ug/l  
RT: 5.98 min Scan# 1443  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 23.6  | 18.9  | 28.3  |
| 71      | 11.4  | 9.1   | 13.7  |

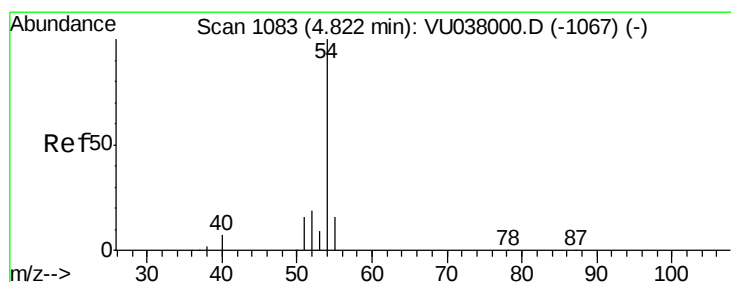
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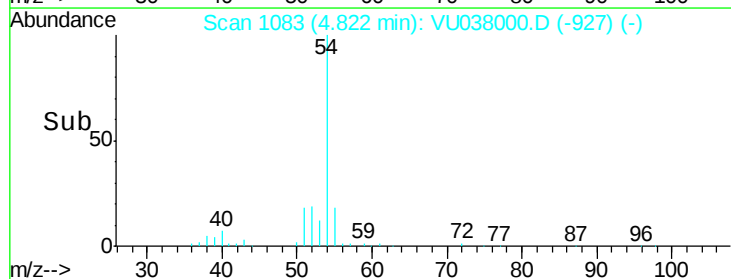
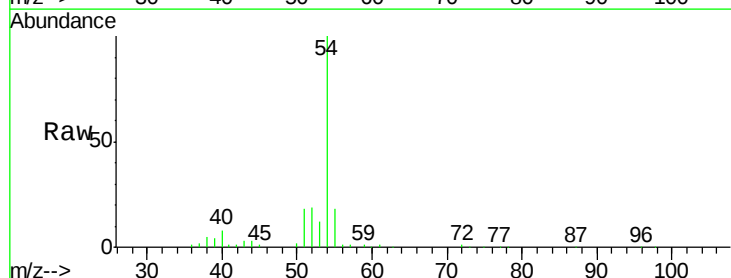
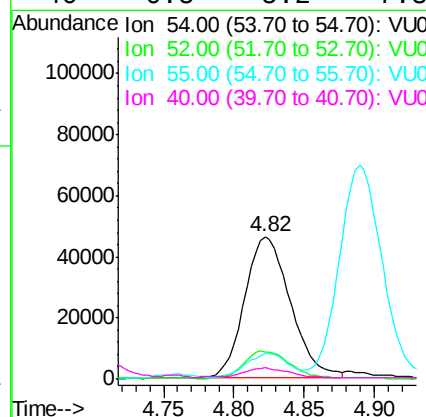
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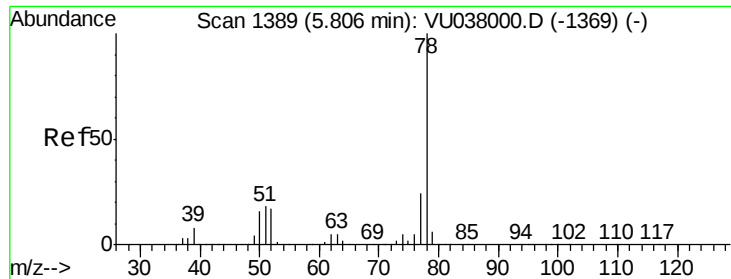
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#34  
Propionitrile  
Concen: 48.229 ug/l  
RT: 4.82 min Scan# 1083  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 19.8  | 15.8  | 23.8  |
| 55      | 16.5  | 13.2  | 19.8  |
| 40      | 6.5   | 5.2   | 7.8   |





#35

Benzene

Concen: 9.505 ug/l

RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Tot Ion: 78 Resp: 1027499

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9

Instrument :

MSVOA\_U

ClientSampled :

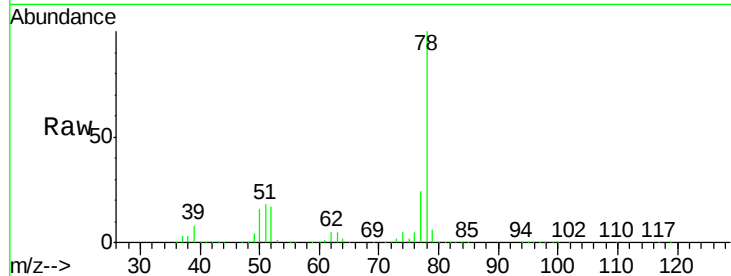
VSTDICCC010

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Abundance Ion 78.10 (77.80 to 78.80): VU038000.D (-1369) (-)

Ion 77.00 (76.70 to 77.70): VU038000.D (-1369) (-)

500000

400000

300000

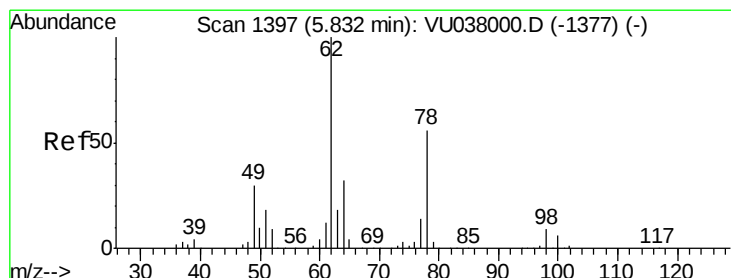
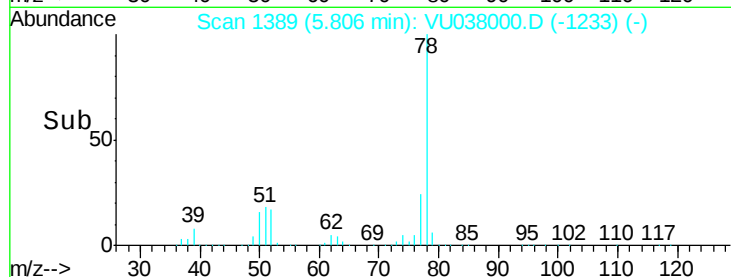
200000

100000

0

5.70 5.75 5.80 5.85 5.90

Time-->



#36

1,2-Dichloroethane

Concen: 7.918 ug/l

RT: 5.83 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VU038000.D

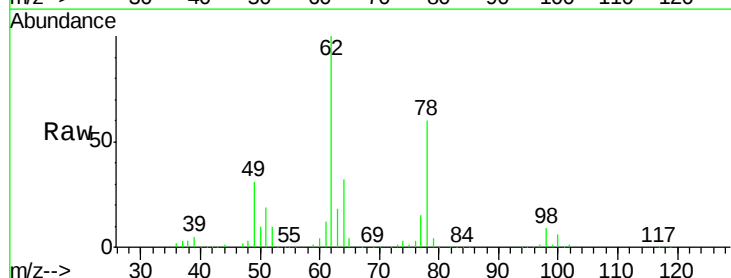
Acq: 04 May 2020 12:39

Tgt Ion: 62 Resp: 302405

Ion Ratio Lower Upper

62 100

98 9.1 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU038000.D (-1377) (-)

Ion 98.00 (97.70 to 98.70): VU038000.D (-1377) (-)

150000

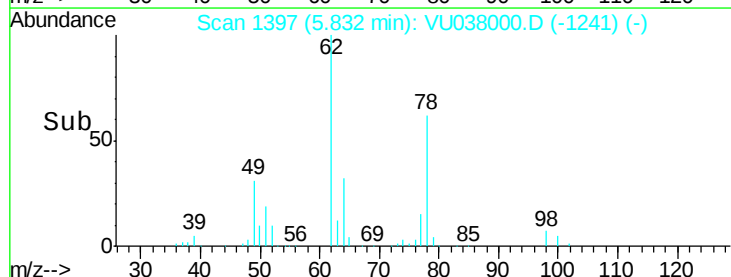
100000

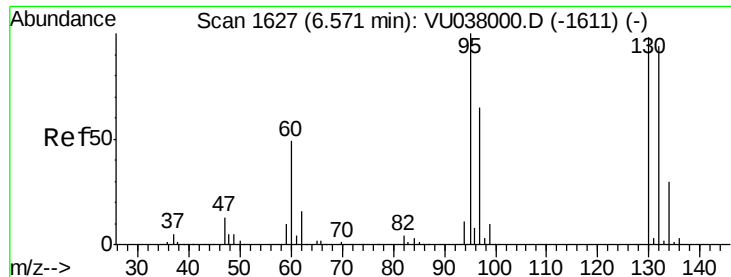
50000

0

5.75 5.80 5.85 5.90

Time-->





#37

Trichloroethene

Concen: 9.275 ug/l

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampled :

VSTDICCC010

Tot Ion:130 Resp: 263527

Ion Ratio Lower Upper

130 100

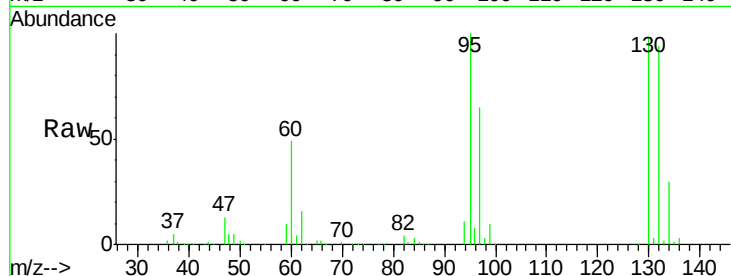
95 102.0 81.6 122.4

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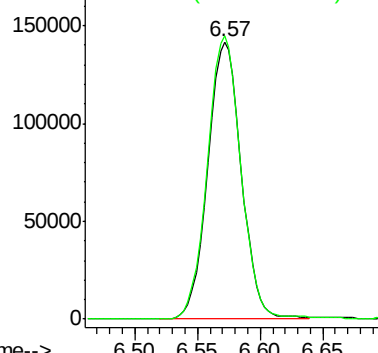
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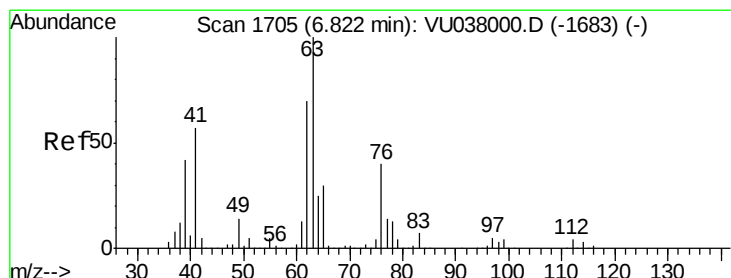
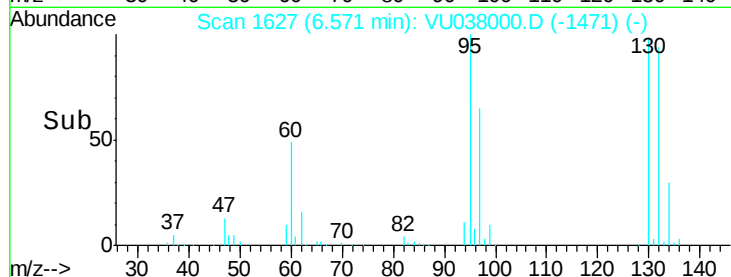
Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0



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#38

1,2-Dichloropropane

Concen: 9.288 ug/l

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU038000.D

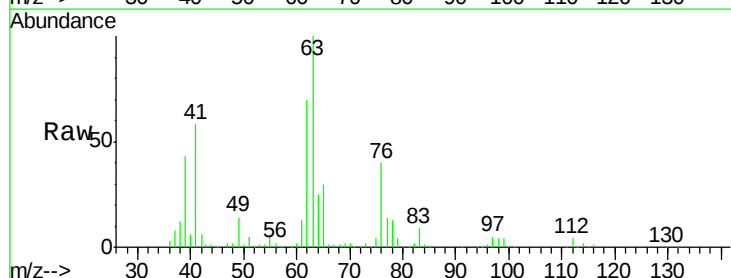
Acq: 04 May 2020 12:39

Tgt Ion: 63 Resp: 274335

Ion Ratio Lower Upper

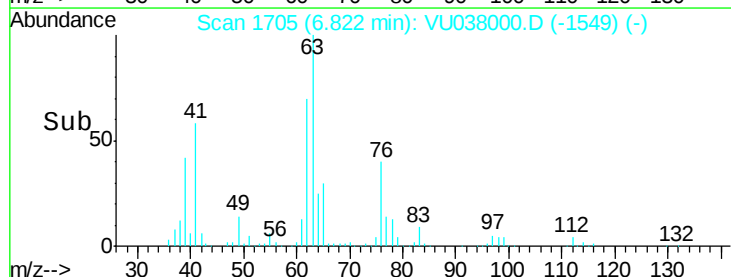
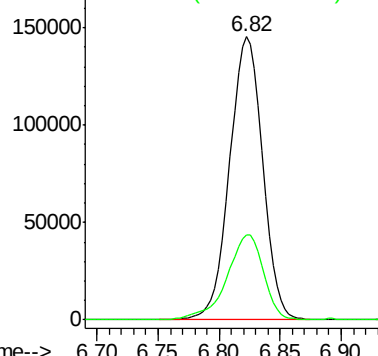
63 100

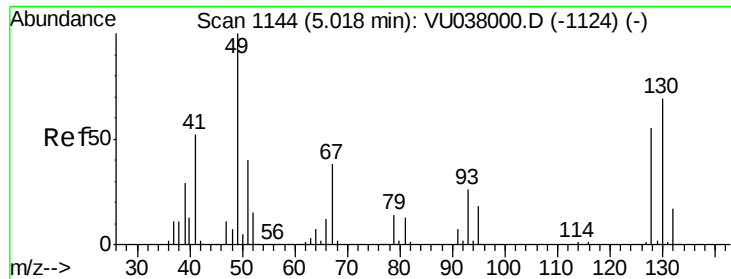
65 30.1 24.1 36.1



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





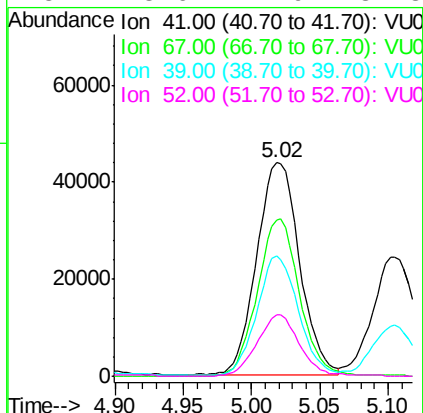
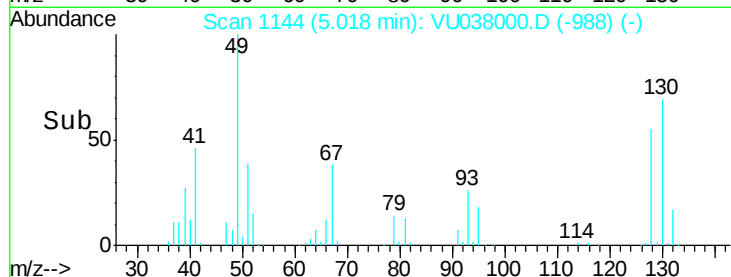
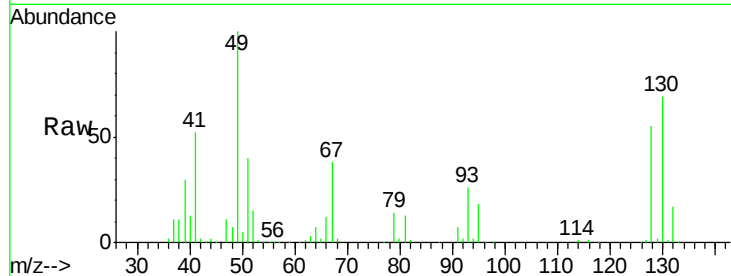
#39  
Methacrylonitrile  
Concen: 9.170 ug/l  
RT: 5.02 min Scan# 1144  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 95840 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 67       | 72.5  | 58.0  | 87.0  |
| 39       | 54.0  | 43.2  | 64.8  |
| 52       | 28.6  | 22.9  | 34.3  |

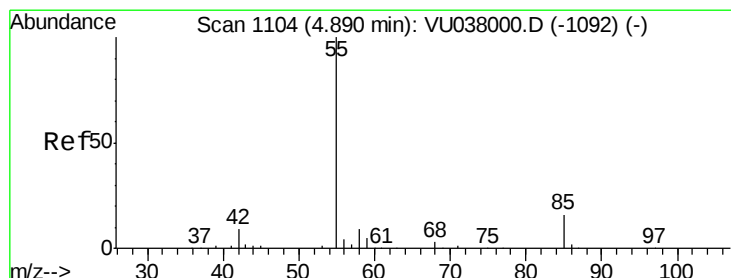
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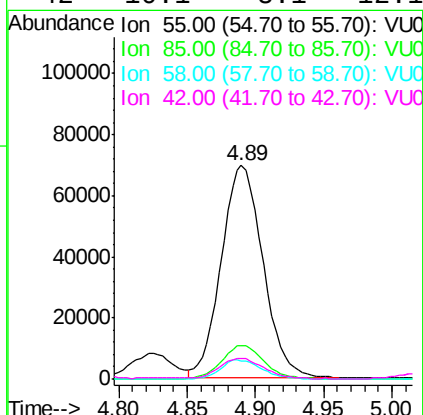
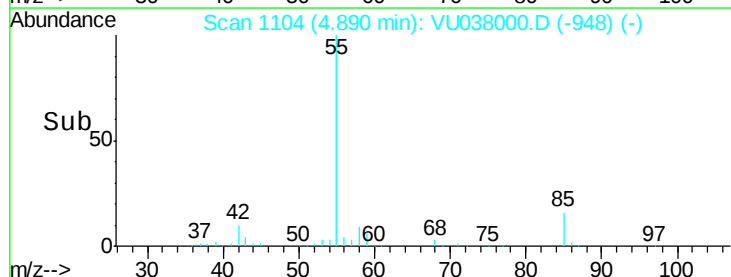
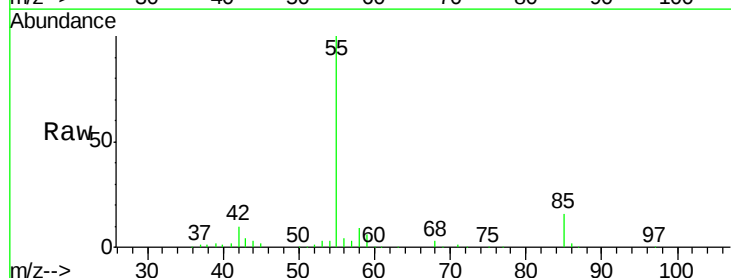
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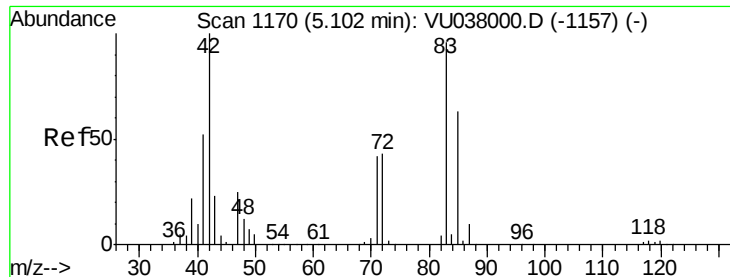
5/5/2020 11:15:47 AM



#40  
Methyl acrylate  
Concen: 9.949 ug/l  
RT: 4.89 min Scan# 1104  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 55    | Resp: | 146988 |
| Ion      | Ratio | Lower | Upper  |
| 55       | 100   |       |        |
| 85       | 16.1  | 12.9  | 19.3   |
| 58       | 9.0   | 7.2   | 10.8   |
| 42       | 10.1  | 8.1   | 12.1   |





#41

Tetrahydrofuran

Concen: 17.943 ug/l

RT: 5.10 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

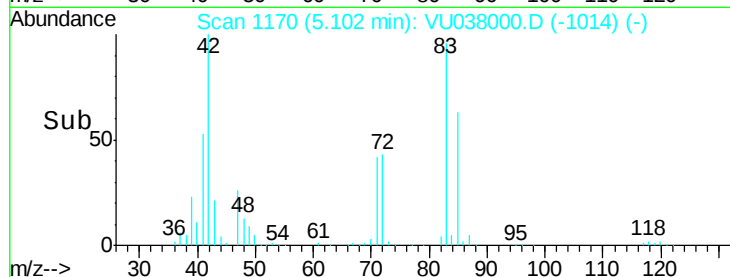
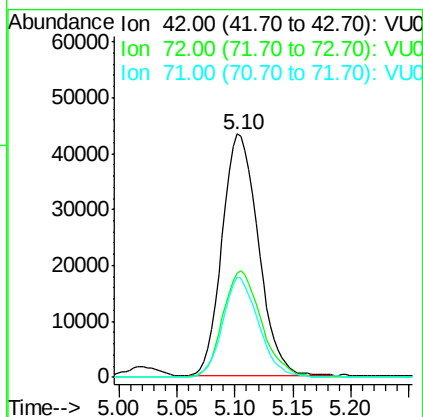
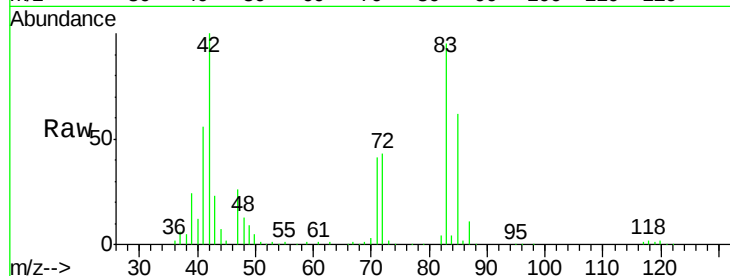
ClientSampled :

VSTDICCC010

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 93470 |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 46.8  | 37.4  | 56.2  |
| 71       | 41.0  | 32.8  | 49.2  |

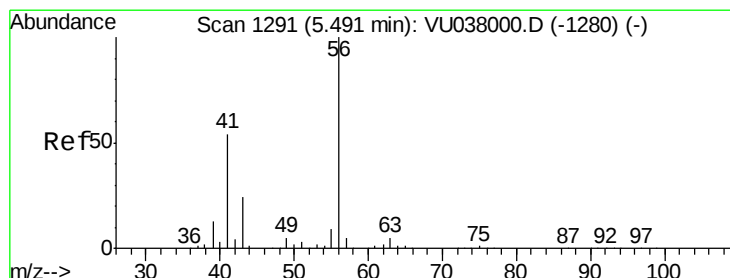
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#42

1-Chlorobutane

Concen: 9.760 ug/l

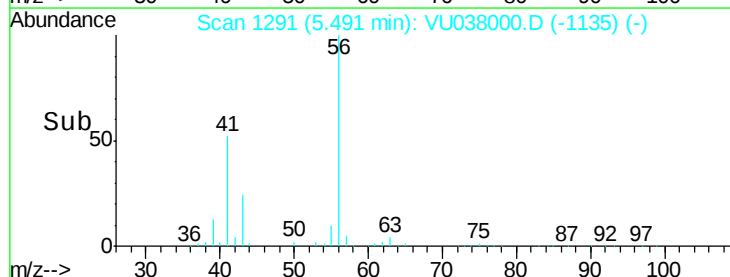
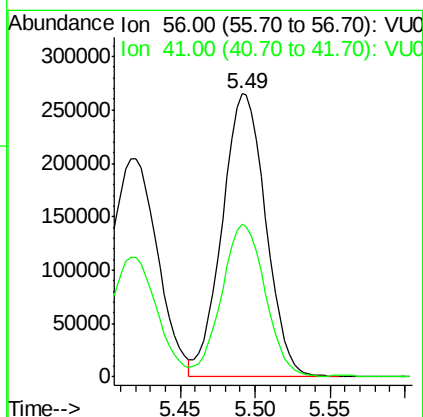
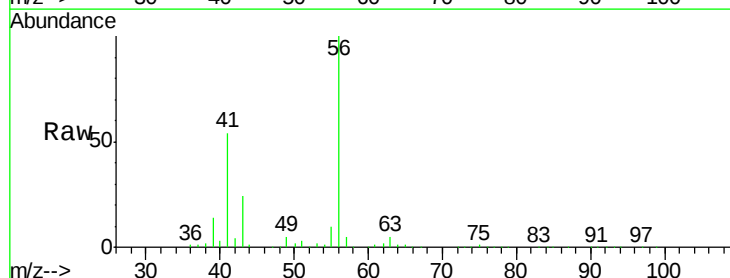
RT: 5.49 min Scan# 1291

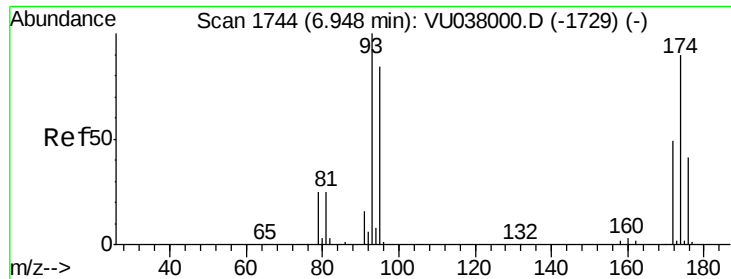
Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 534498 |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 41       | 53.6  | 26.8  | 80.4   |





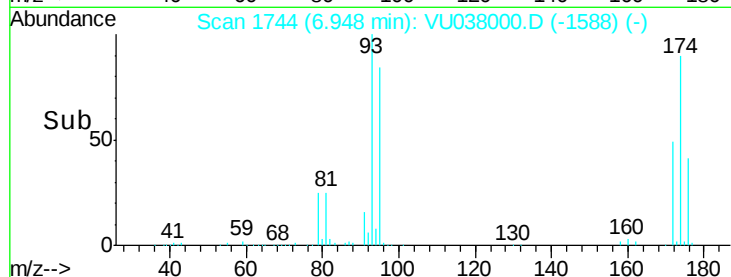
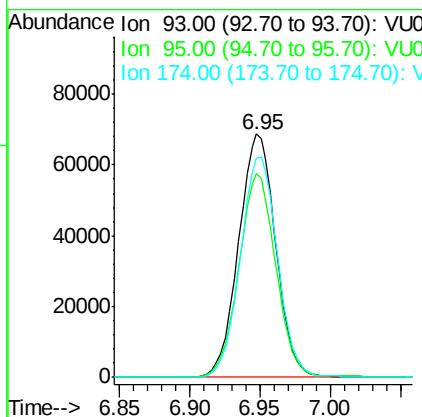
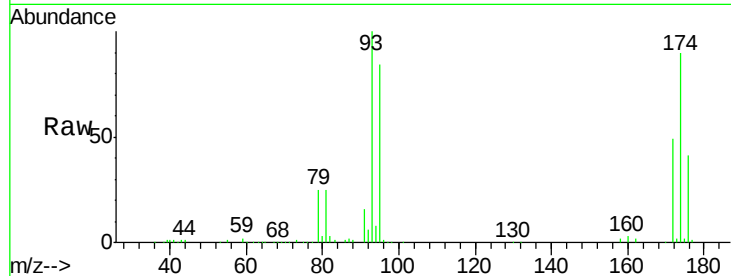
#43  
Dibromomethane  
Concen: 8.470 ug/l  
RT: 6.95 min Scan# 1744  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 82.6  | 66.1  | 99.1  |
| 174     | 91.0  | 72.8  | 109.2 |

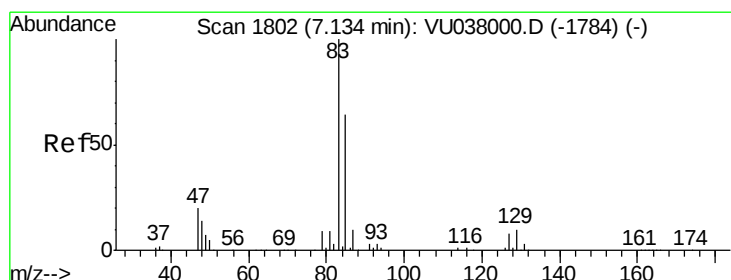
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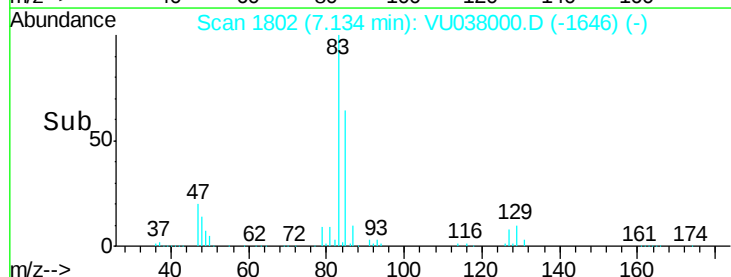
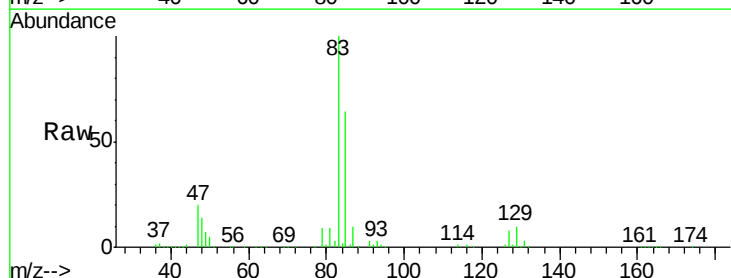
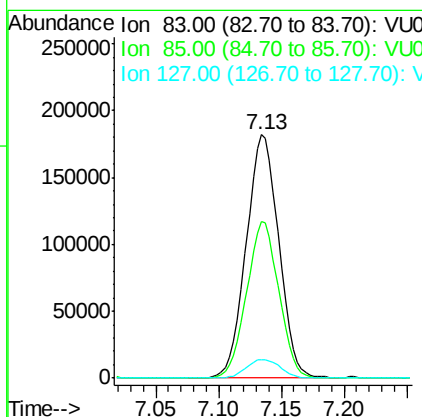
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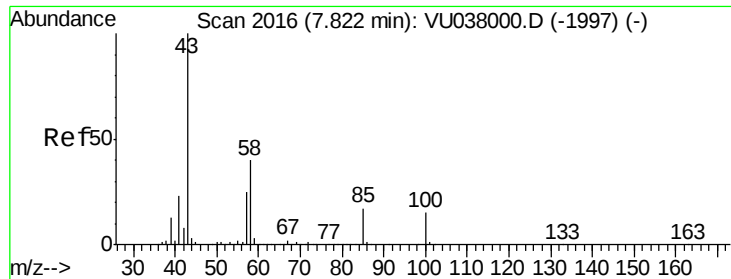
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#44  
Bromodichloromethane  
Concen: 8.476 ug/l  
RT: 7.13 min Scan# 1802  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.2  | 51.4  | 77.0  |
| 127     | 7.7   | 6.2   | 9.2   |





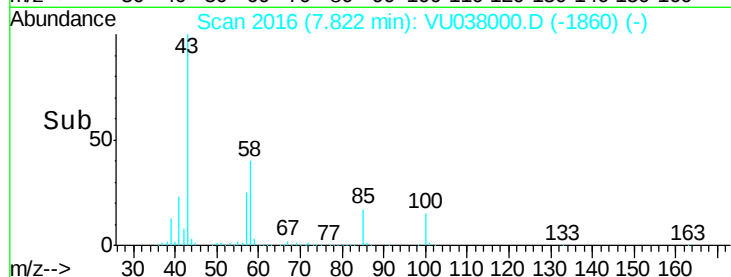
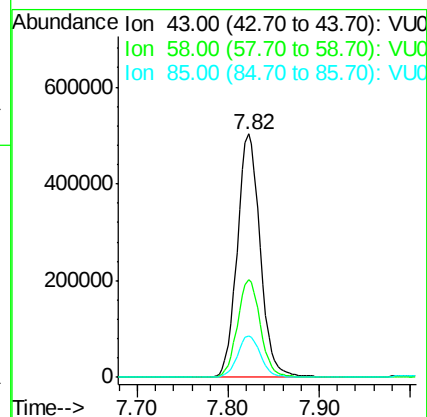
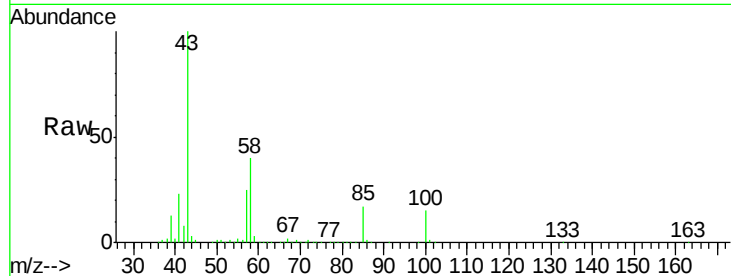
#45  
4-Methyl-2-Pentanone  
Concen: 44.040 ug/l  
RT: 7.82 min Scan# 2016  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.2  | 20.1  | 60.3  |
| 85      | 17.1  | 13.7  | 20.5  |

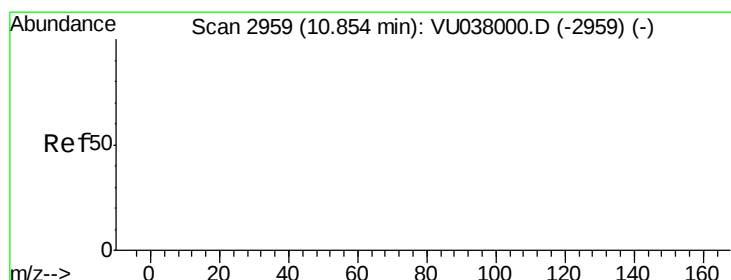
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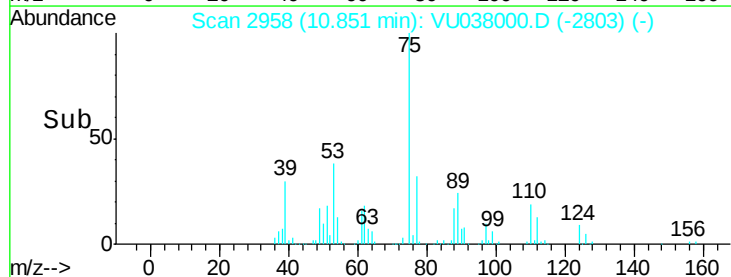
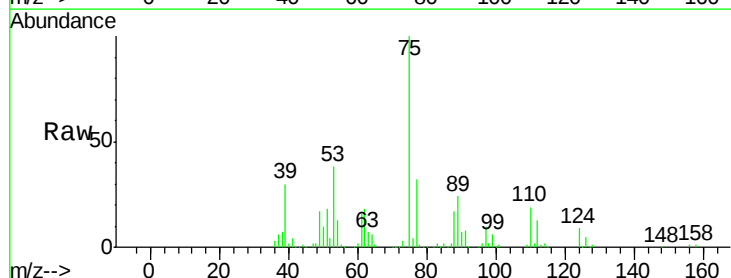
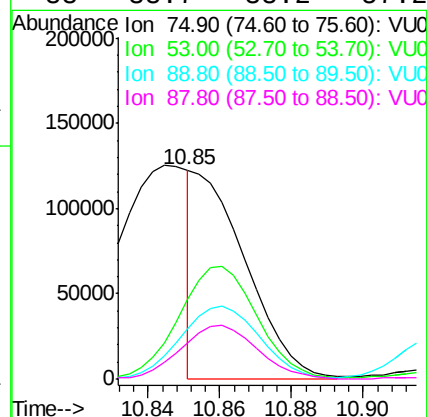
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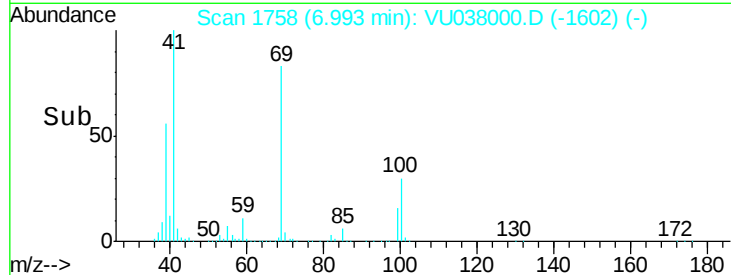
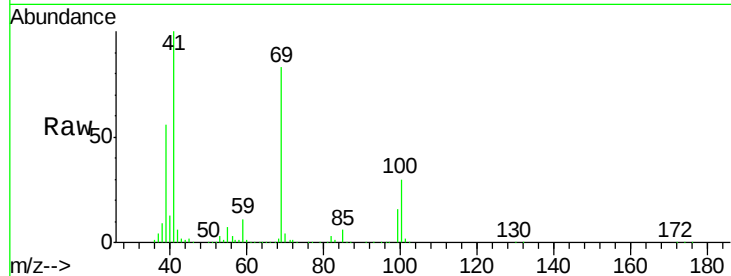
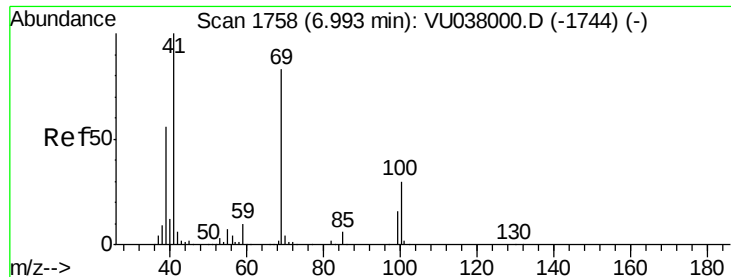
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#46  
t-1,4-Dichloro-2-butene  
Concen: 22.408 ug/l m  
RT: 10.85 min Scan# 2958  
Delta R.T. -0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

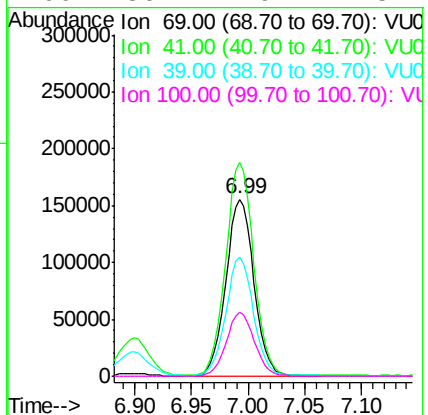
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 82.3  | 81.1  | 121.7 |
| 89      | 53.9  | 53.2  | 79.8  |
| 88      | 38.7  | 38.2  | 57.2  |





#47  
Methyl methacrylate  
Concen: 21.187 ug/l  
RT: 6.99 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tot Ion   | 69    | Resp  | 267177 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 69        | 100   |       |        |
| 41        | 120.8 | 0.0   | 241.6  |
| 39        | 66.1  | 52.9  | 79.3   |
| 100       | 36.4  | 29.1  | 43.7   |



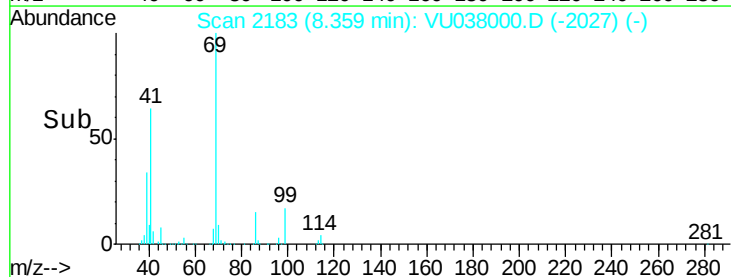
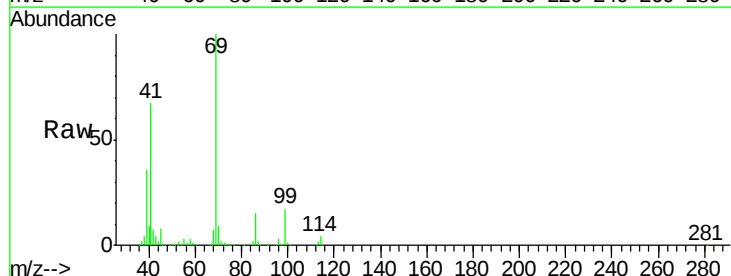
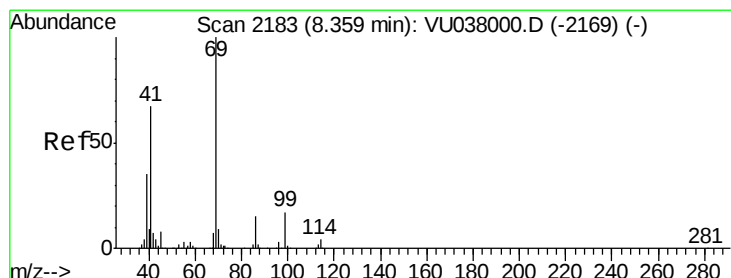
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

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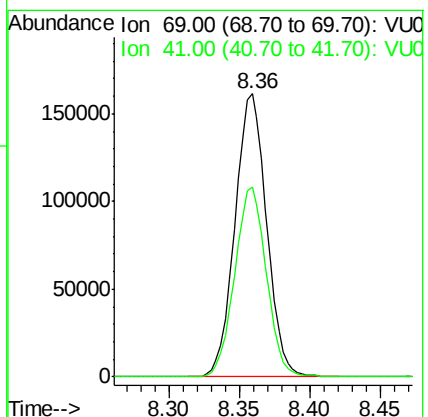
apatel

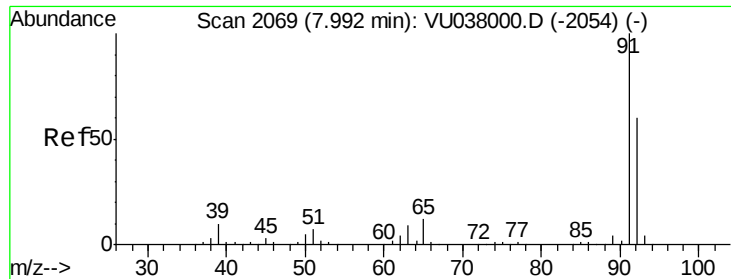
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#48  
Ethyl methacrylate  
Concen: 10.225 ug/l  
RT: 8.36 min Scan# 2183  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion   | 69    | Resp  | 254188 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 69        | 100   |       |        |
| 41        | 67.2  | 33.6  | 100.8  |





#49

Toluene

Concen: 10.119 ug/l

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

VSTDICCC010

Tot Ion: 92 Resp: 659687

Ion Ratio Lower Upper

92 100

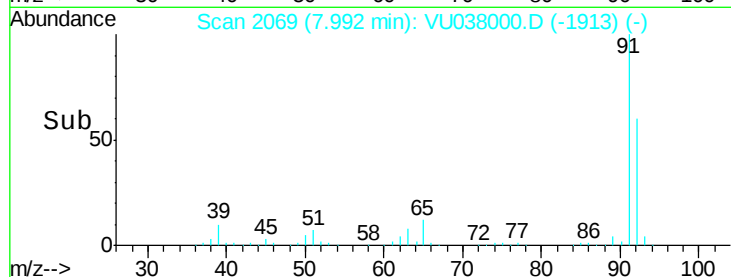
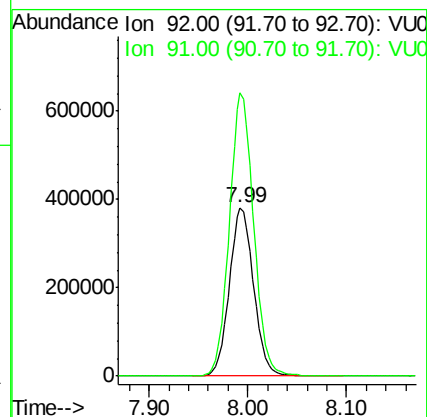
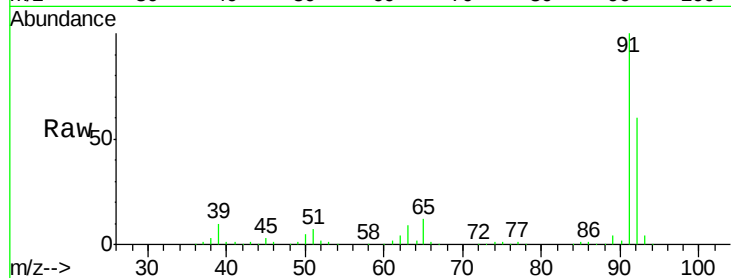
91 168.0 134.4 201.6

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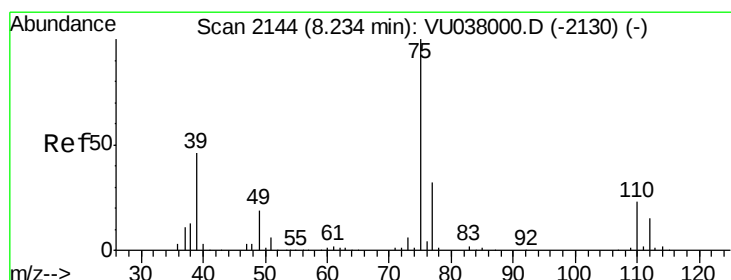
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#50

t-1,3-Dichloropropene

Concen: 9.622 ug/l

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038000.D

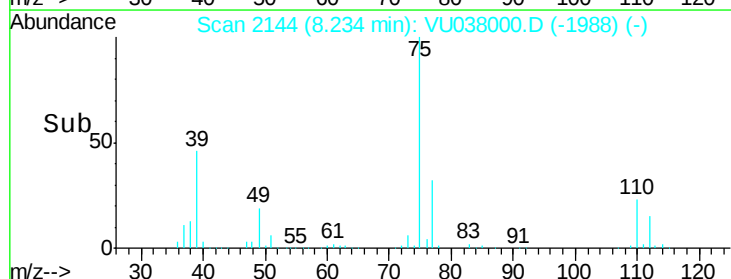
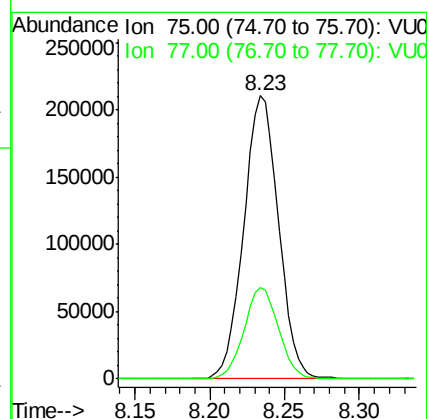
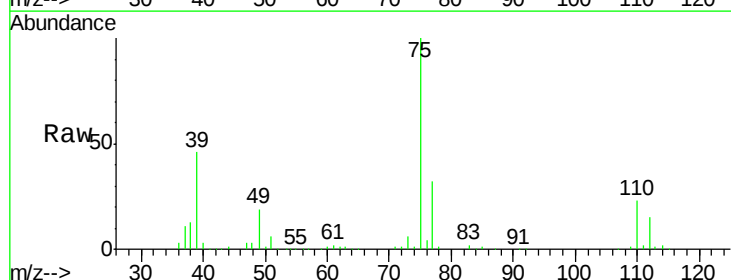
Acq: 04 May 2020 12:39

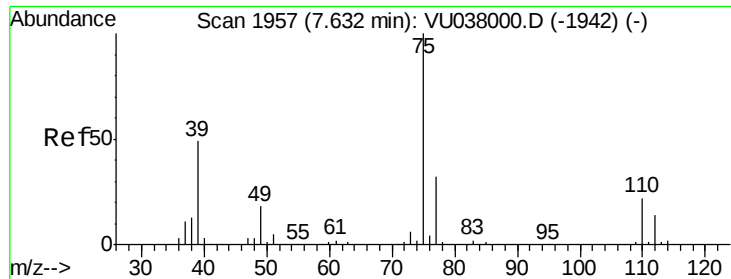
Tgt Ion: 75 Resp: 341487

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.8





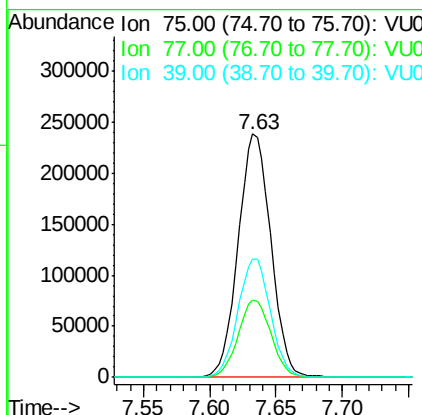
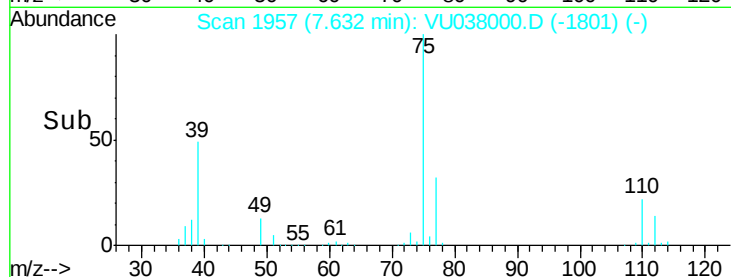
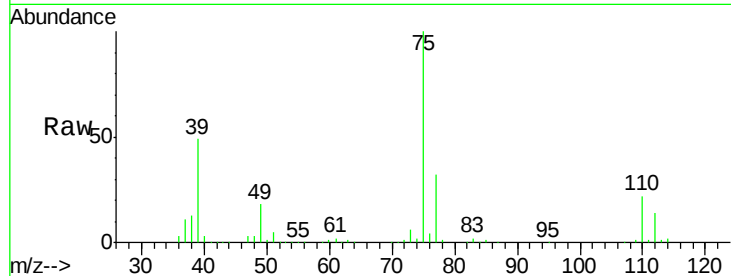
#51  
 cis-1,3-Dichloropropene  
 Concen: 9.988 ug/l  
 RT: 7.63 min Scan# 1957  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 75    | Resp: | 409003 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 31.9  | 25.5  | 38.3   |
| 39       | 48.7  | 39.0  | 58.4   |

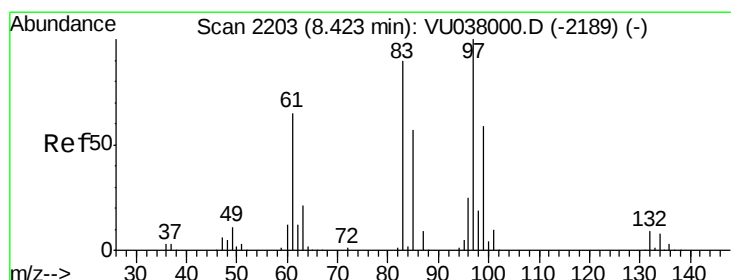
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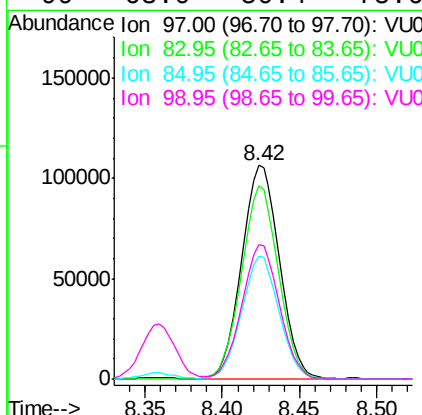
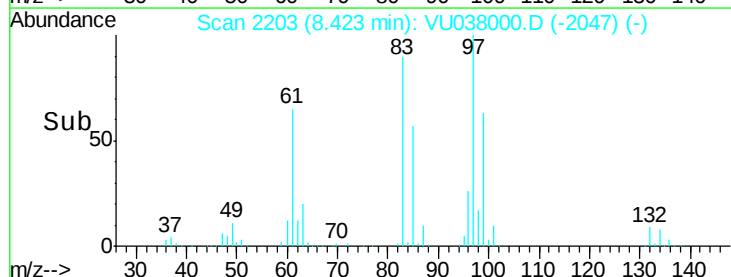
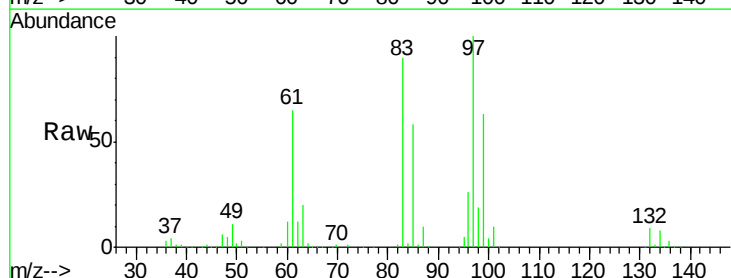
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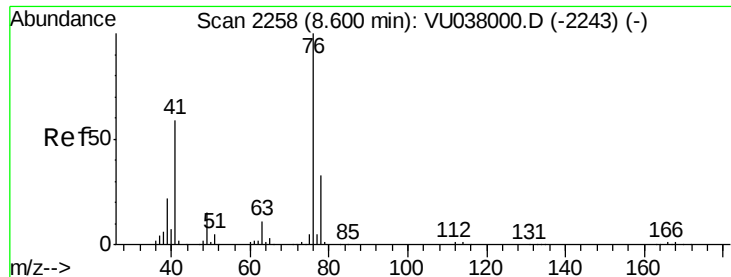
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#52  
 1,1,2-Trichloroethane  
 Concen: 9.011 ug/l  
 RT: 8.42 min Scan# 2203  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 180766 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 90.5  | 72.4  | 108.6  |
| 85       | 57.5  | 46.0  | 69.0   |
| 99       | 63.0  | 50.4  | 75.6   |





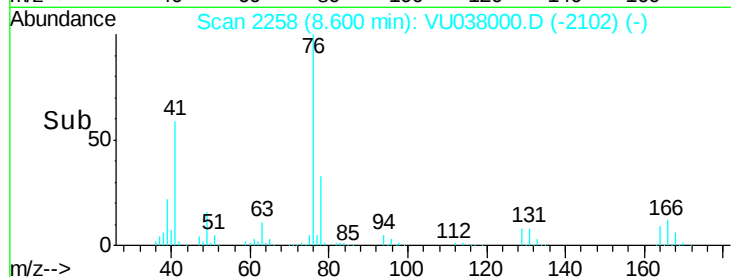
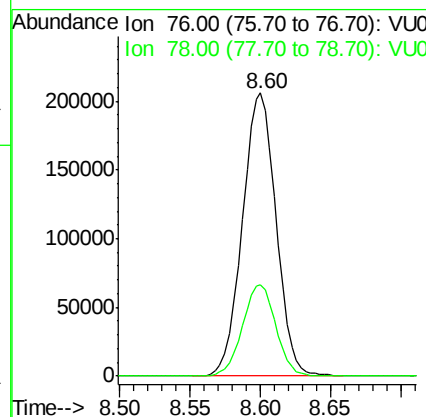
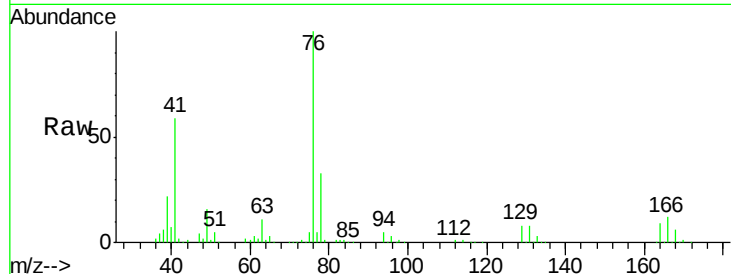
#53  
 1,3-Dichloropropane  
 Concen: 9.575 ug/l  
 RT: 8.60 min Scan# 2258  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.2  | 25.8  | 38.6  |

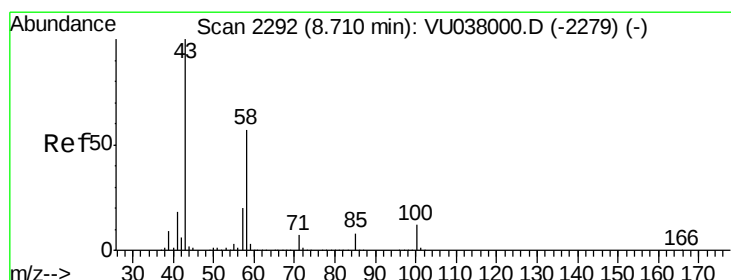
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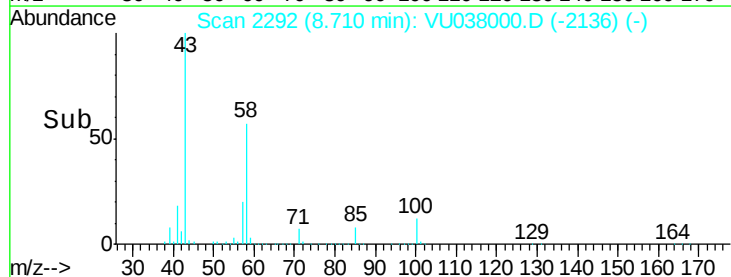
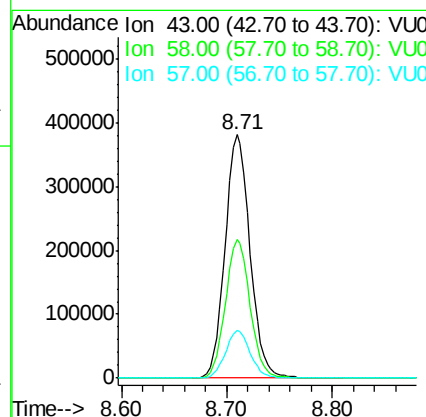
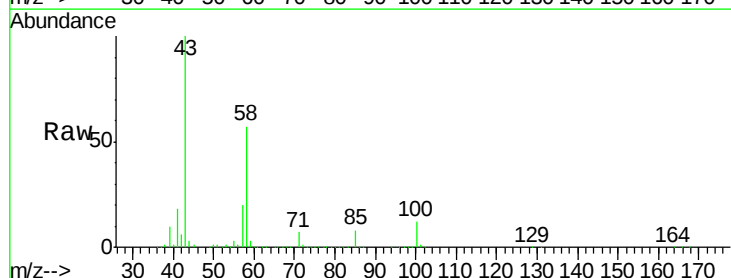
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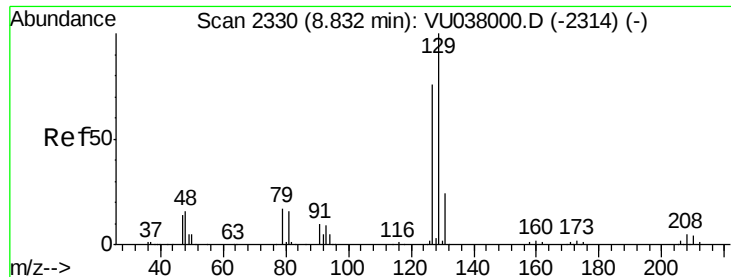
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#54  
 2-Hexanone  
 Concen: 45.107 ug/l  
 RT: 8.71 min Scan# 2292  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 56.5  | 36.5  | 76.5  |
| 57      | 19.5  | 0.0   | 39.5  |





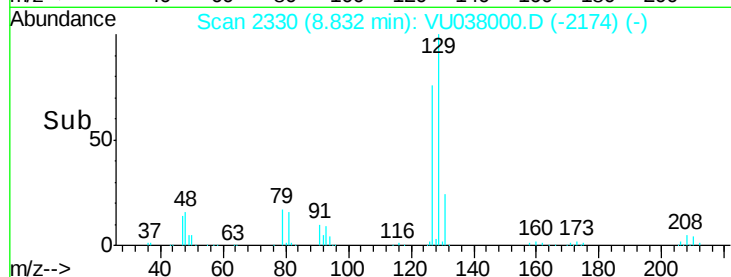
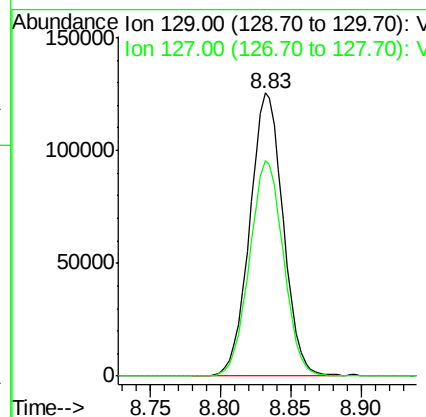
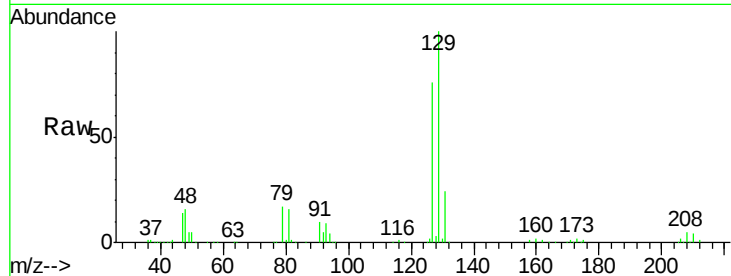
#55  
Dibromochloromethane  
Concen: 8.494 ug/l  
RT: 8.83 min Scan# 2330  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 77.7  | 62.2  | 93.2  |

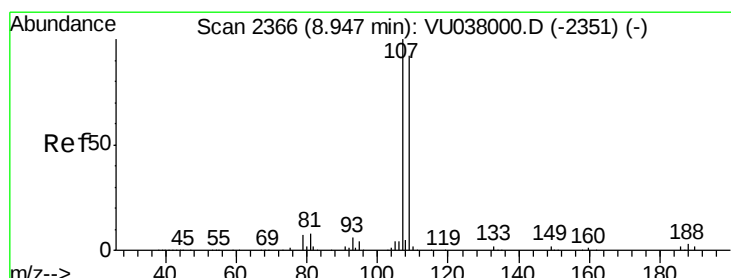
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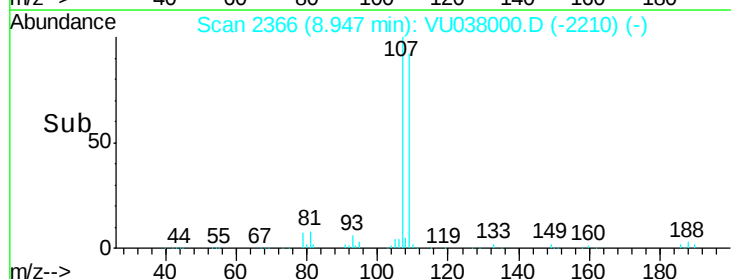
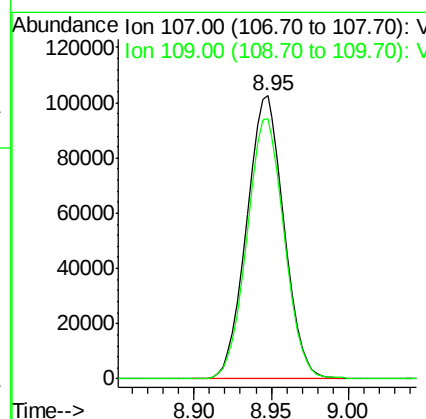
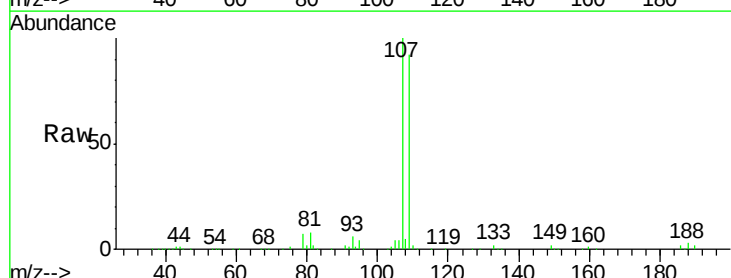
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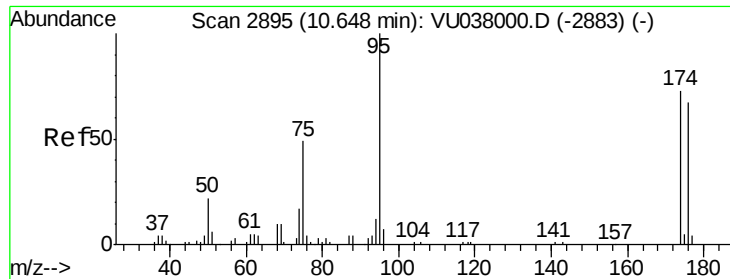
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#56  
1,2-Dibromoethane  
Concen: 9.150 ug/l  
RT: 8.95 min Scan# 2366  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.3  | 0.0   | 184.6 |





#57

4-Bromofluorobenzene

Concen: 1.007 ug/l

RT: 10.65 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

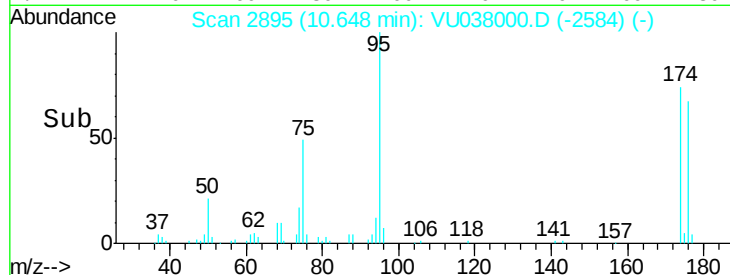
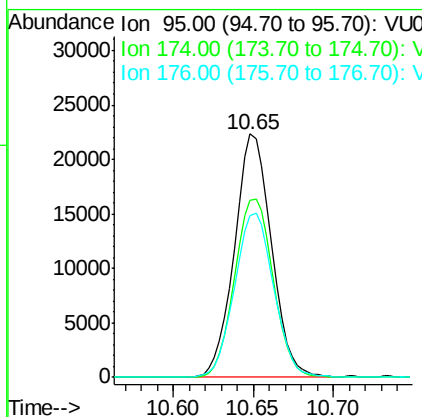
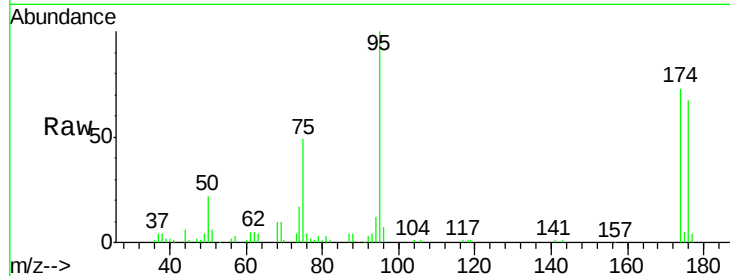
ClientSampleId :

VSTDICCC010

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 95    | Resp: | 35078 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 76.5  | 61.2  | 91.8  |
| 176       | 71.4  | 57.1  | 85.7  |

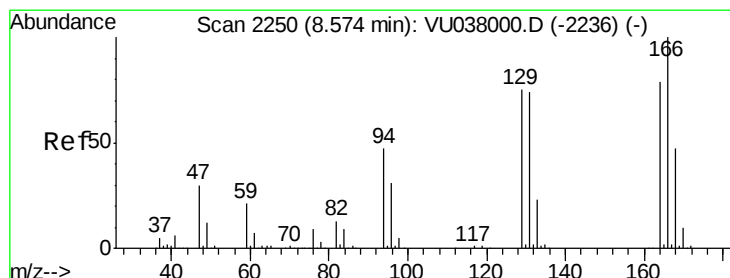
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#58

Tetrachloroethene

Concen: 9.608 ug/l

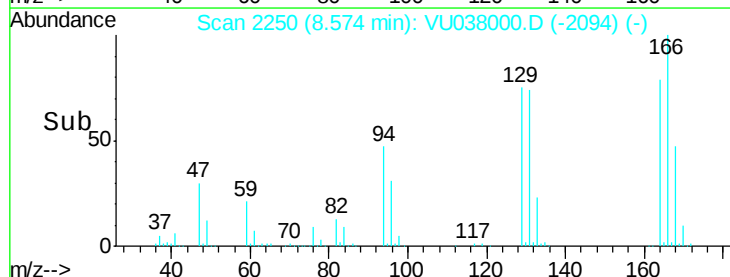
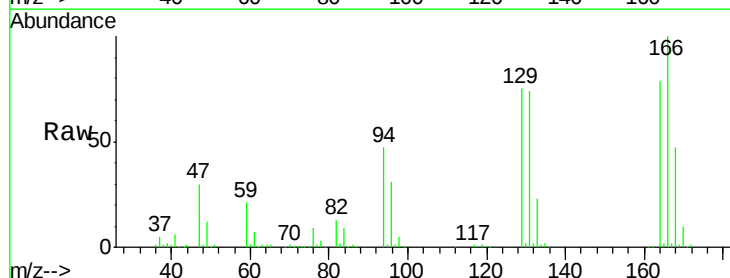
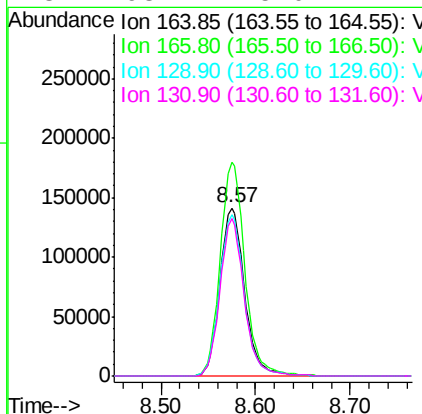
RT: 8.57 min Scan# 2250

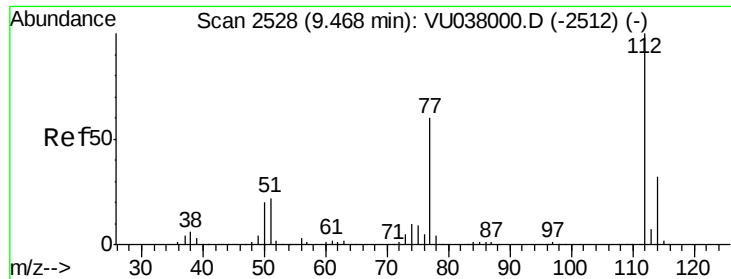
Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 256322 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 166       | 126.9 | 101.5 | 152.3  |
| 129       | 95.7  | 76.6  | 114.8  |
| 131       | 93.7  | 75.0  | 112.4  |





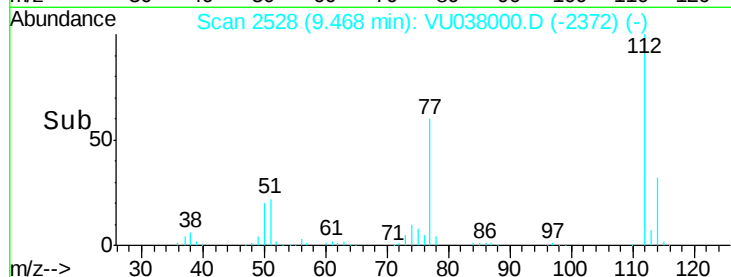
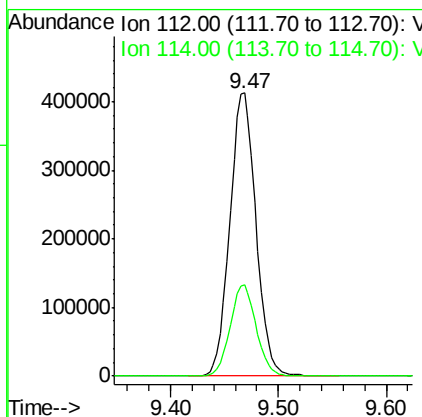
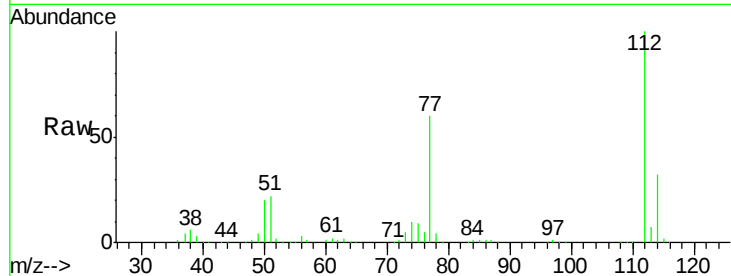
#59  
Chlorobenzene  
Concen: 9.603 ug/l  
RT: 9.47 min Scan# 2528  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.1  | 25.7  | 38.5  |

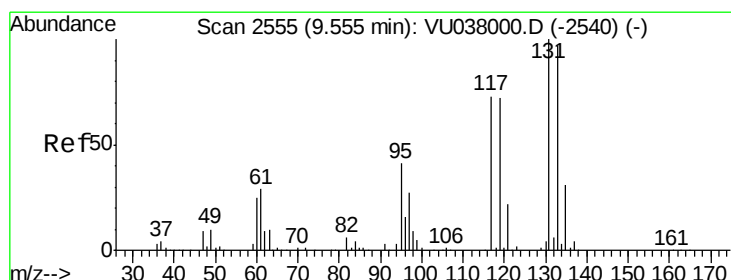
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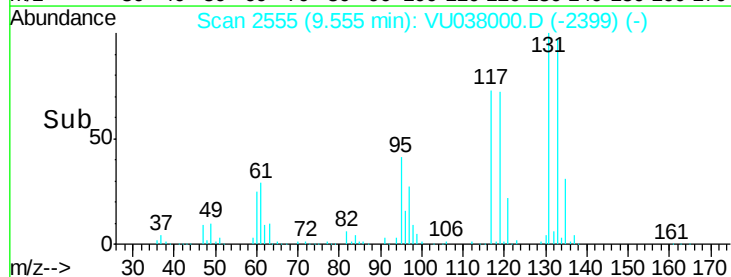
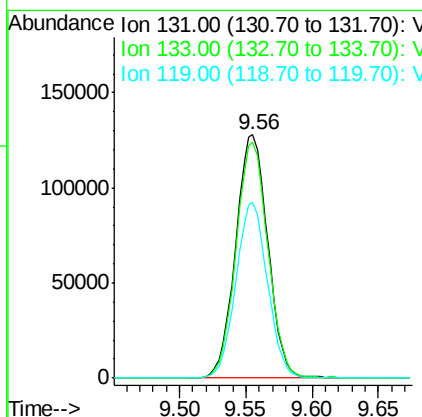
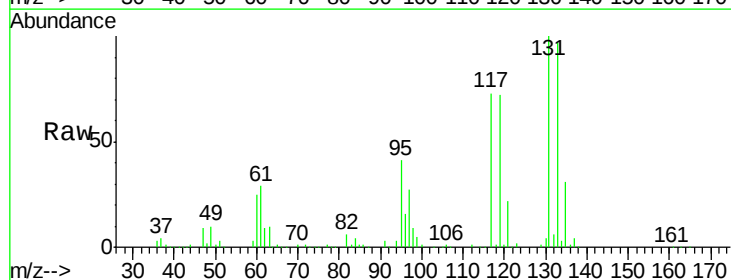
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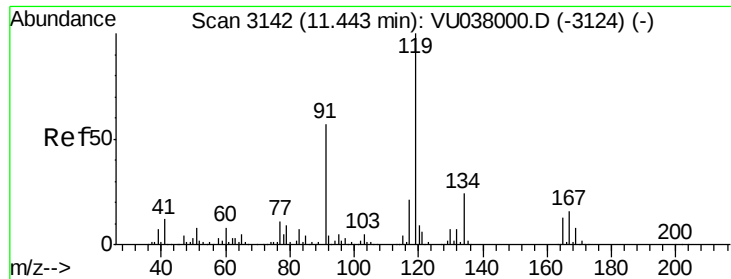
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#60  
1,1,1,2-Tetrachloroethane  
Concen: 8.353 ug/l  
RT: 9.56 min Scan# 2555  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 96.0  | 76.8  | 115.2 |
| 119     | 70.9  | 56.7  | 85.1  |





#61

Pentachloroethane

Concen: 8.322 ug/l

RT: 11.44 min Scan# 3142

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampled :

VSTDICCC010

Tot Ion:117 Resp: 164131

Ion Ratio Lower Upper

117 100

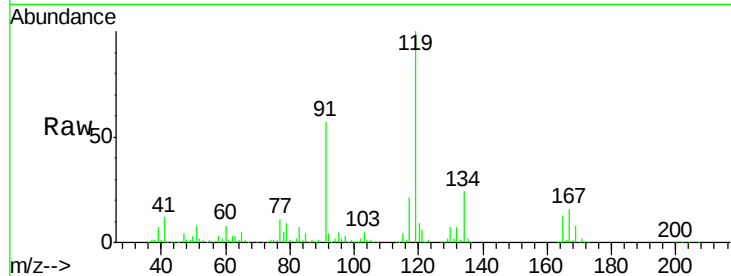
167 75.4 60.3 90.5

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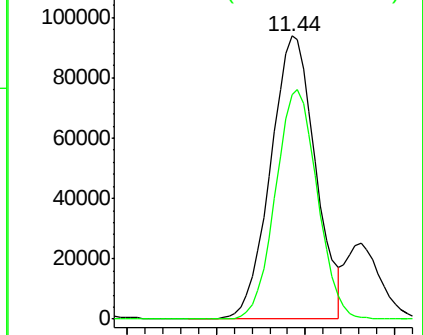
apatel

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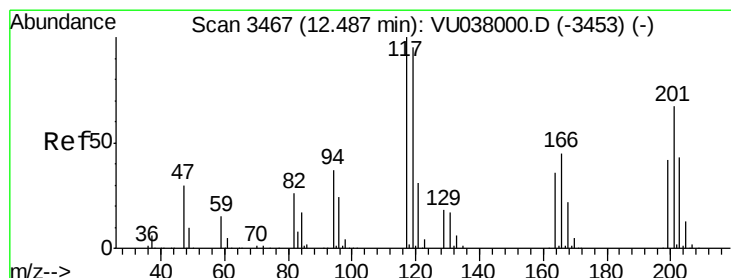
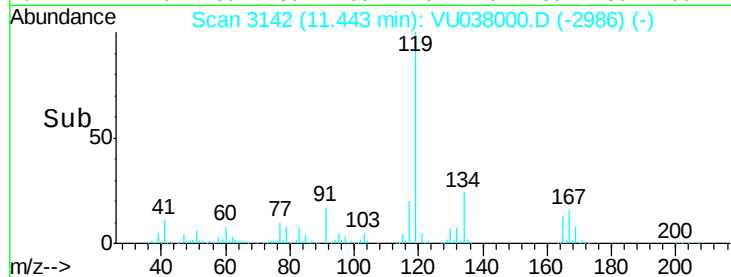
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



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#62

Hexachloroethane

Concen: 7.987 ug/l

RT: 12.49 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VU038000.D

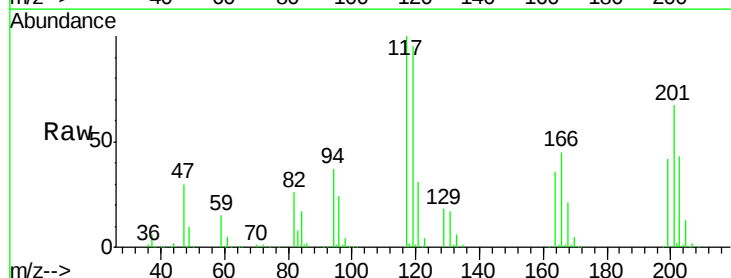
Acq: 04 May 2020 12:39

Tgt Ion:117 Resp: 167287

Ion Ratio Lower Upper

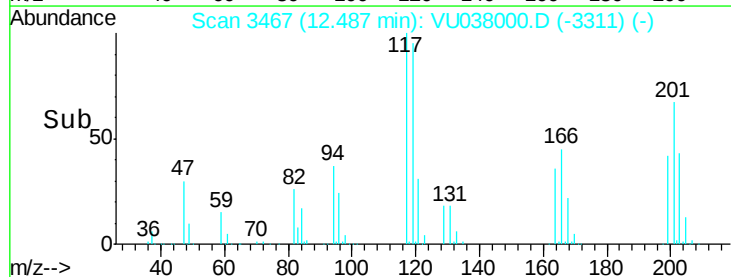
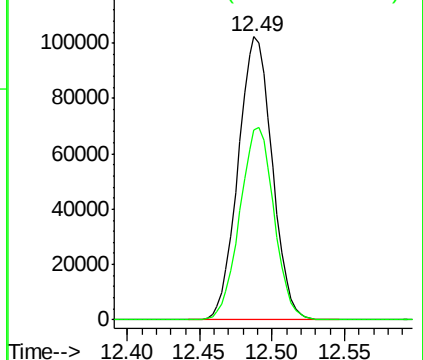
117 100

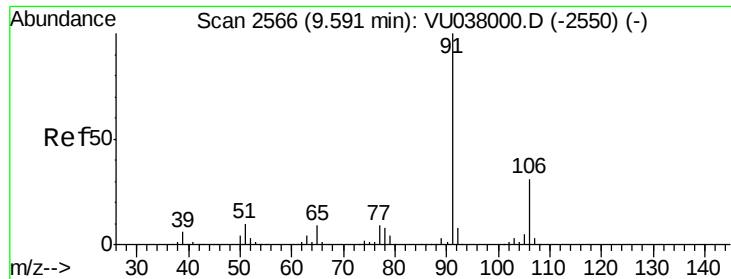
201 68.4 54.7 82.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





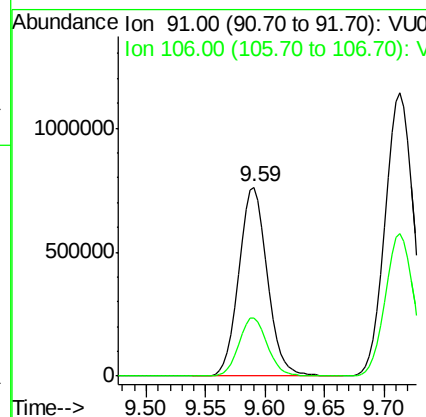
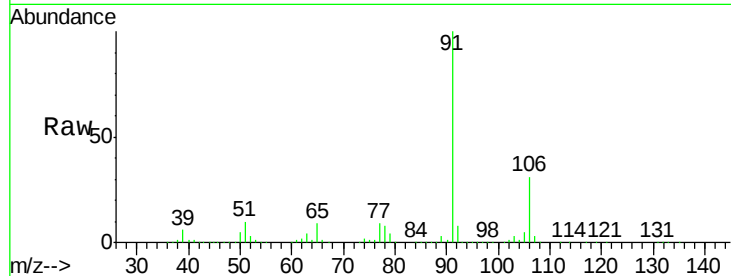
#63  
Ethyl Benzene  
Concen: 10.201 ug/l  
RT: 9.59 min Scan# 2566  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

Tot Ion: 91 Resp: 1265479  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.9 37.3

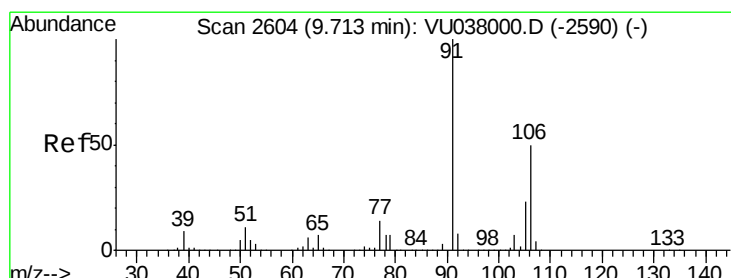
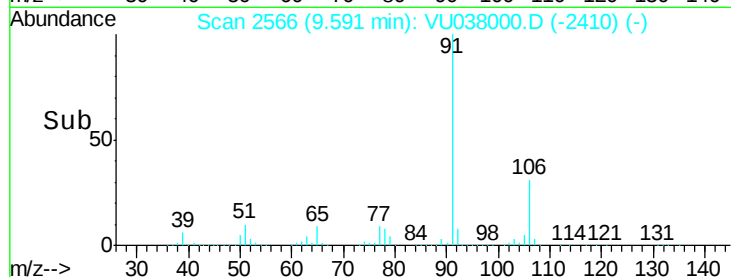
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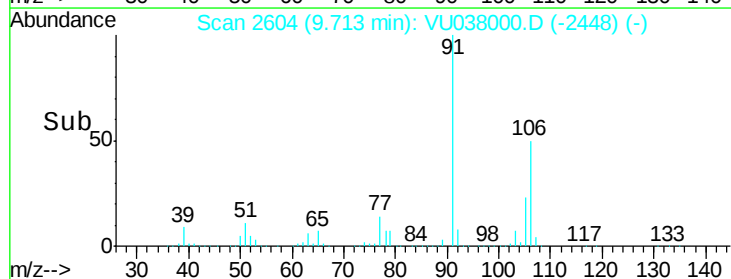
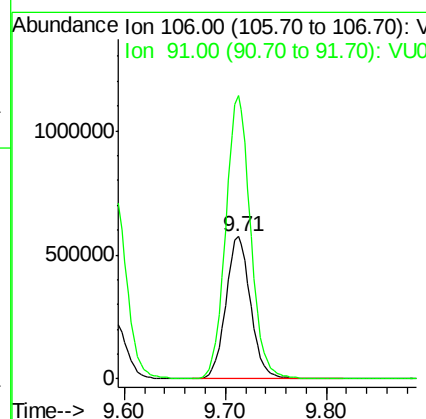
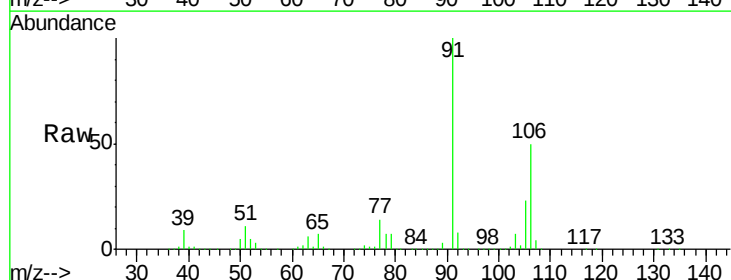
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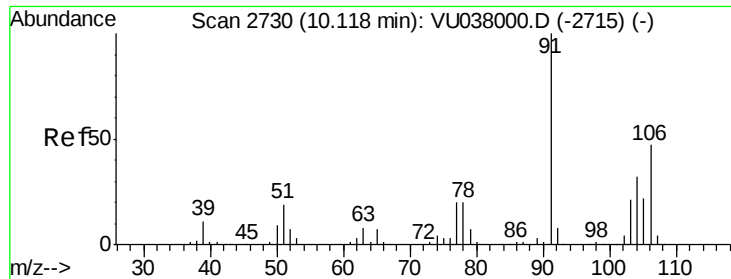
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#64  
m/p-Xylenes  
Concen: 20.878 ug/l  
RT: 9.71 min Scan# 2604  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Tgt Ion: 106 Resp: 980571  
Ion Ratio Lower Upper  
106 100  
91 199.4 159.5 239.3





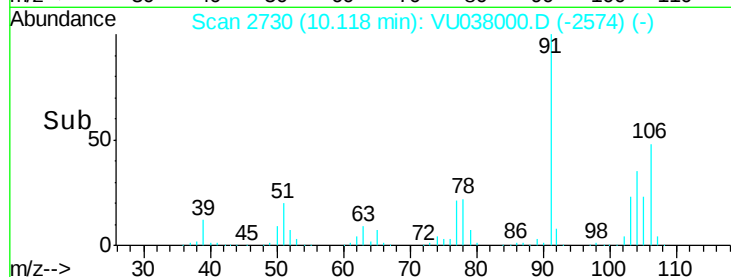
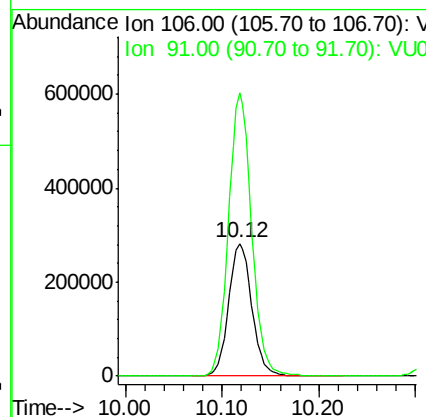
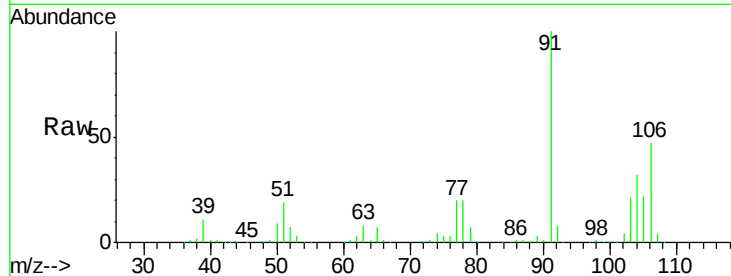
#65  
o-Xylene  
Concen: 10.366 ug/l  
RT: 10.12 min Scan# 2730  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

Tot Ion:106 Resp: 470999  
Ion Ratio Lower Upper  
106 100  
91 211.3 105.7 317.0

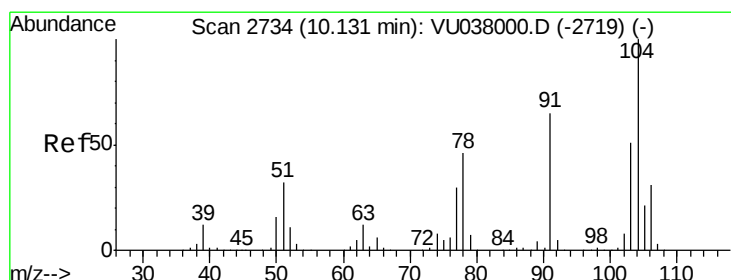
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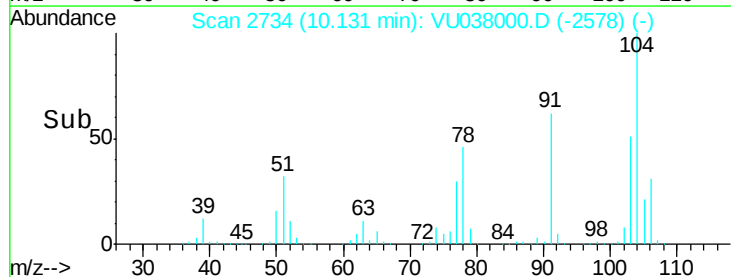
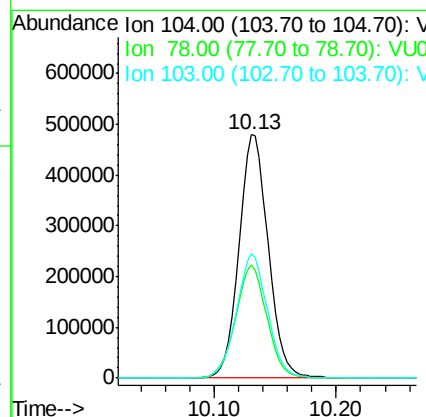
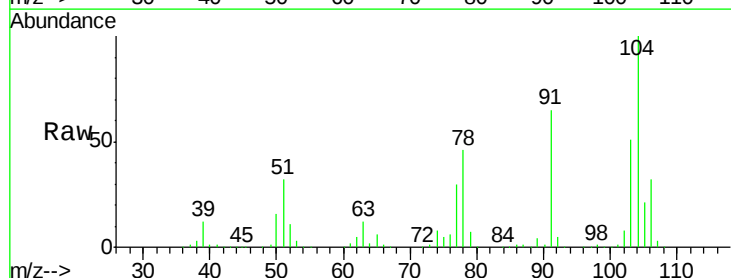
apatel

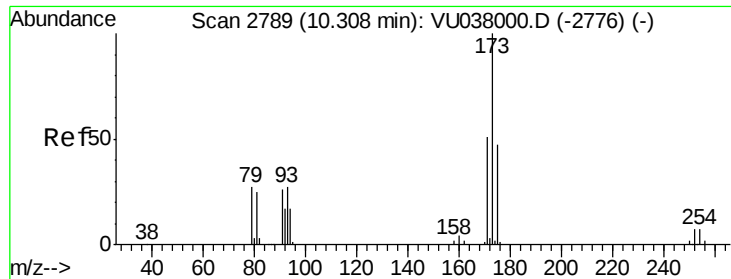
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#66  
Styrene  
Concen: 10.731 ug/l  
RT: 10.13 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Tgt Ion:104 Resp: 796639  
Ion Ratio Lower Upper  
104 100  
78 49.9 39.9 59.9  
103 54.3 43.4 65.2





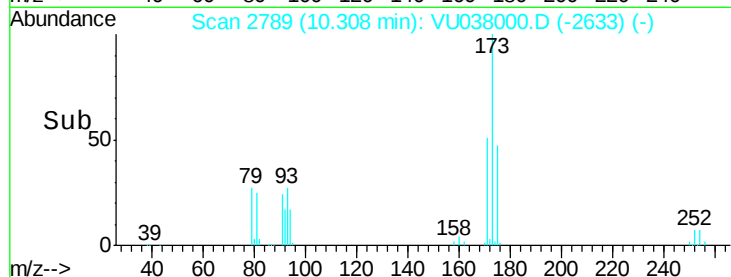
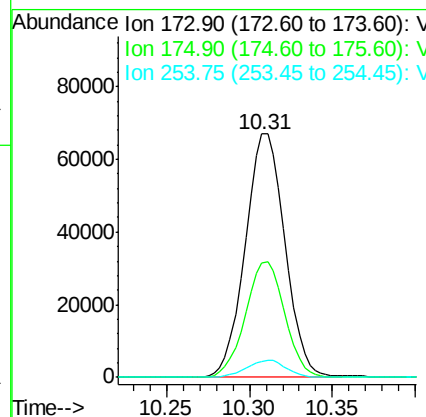
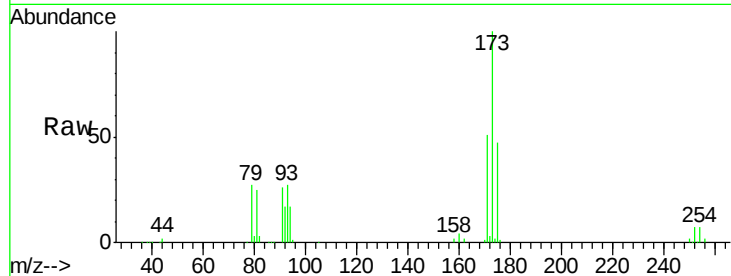
#67  
Bromoform  
Concen: 8.685 ug/l  
RT: 10.31 min Scan# 2789  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 47.0  | 37.6  | 56.4  |
| 254     | 6.9   | 5.5   | 8.3   |

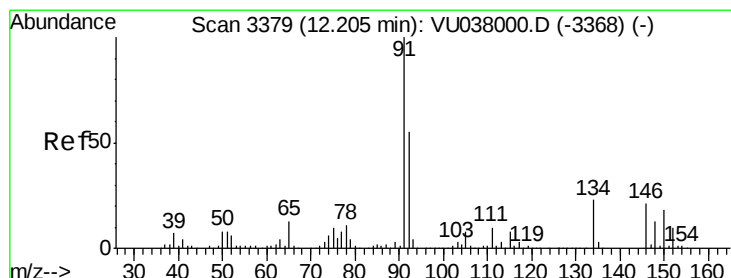
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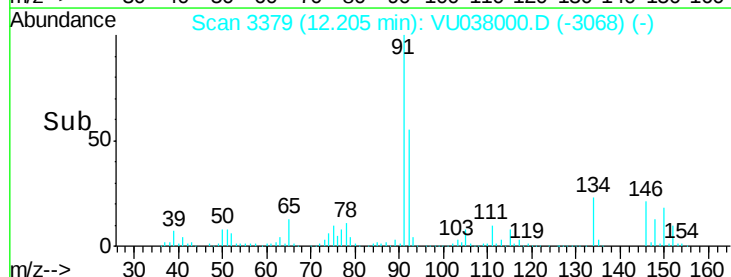
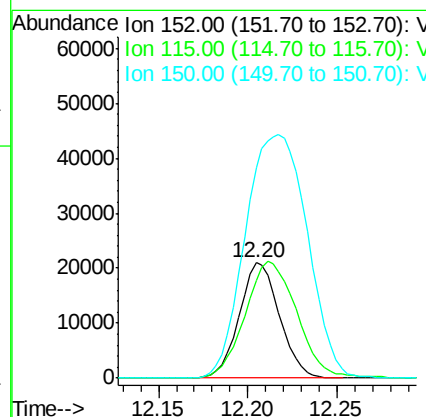
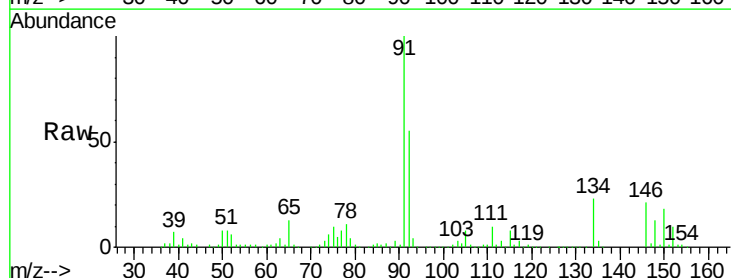
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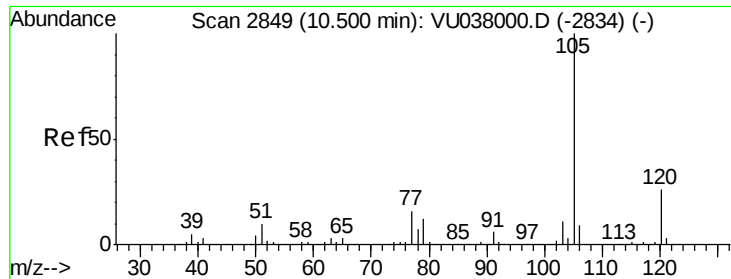
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#68  
1,2-Dichlorobenzene-d4  
Concen: 0.944 ug/l  
RT: 12.20 min Scan# 3379  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 130.5 | 0.0   | 261.0 |
| 150     | 325.1 | 0.0   | 650.2 |





#69

Isopropylbenzene

Concen: 10.113 ug/l

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampled :

VSTDICCC010

Tot Ion:105 Resp: 1247957

Ion Ratio Lower Upper

105 100

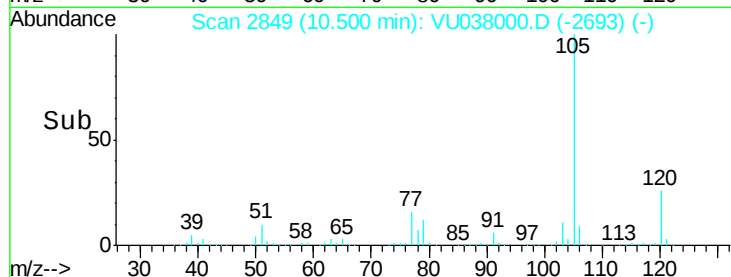
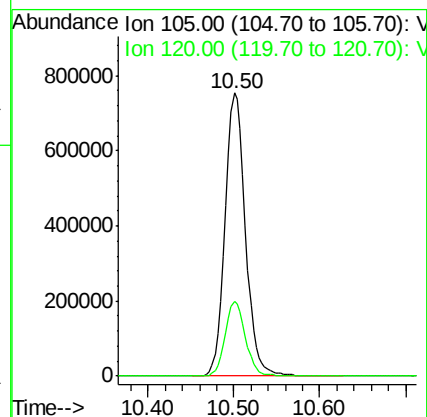
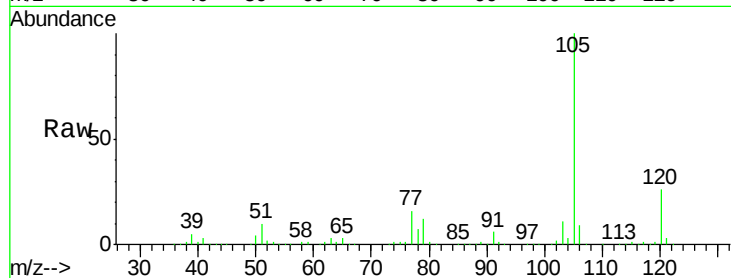
120 26.2 13.1 39.3

Manual Integrations

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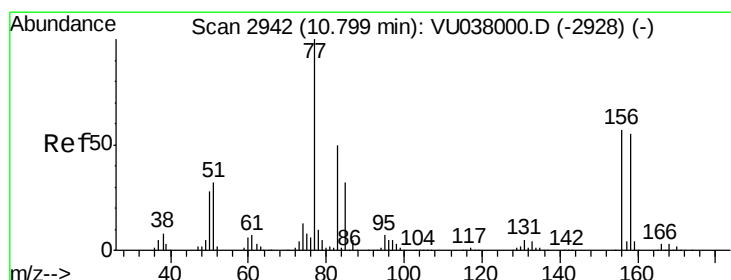
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#70

1,1,2,2-Tetrachloroethane

Concen: 8.988 ug/l

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

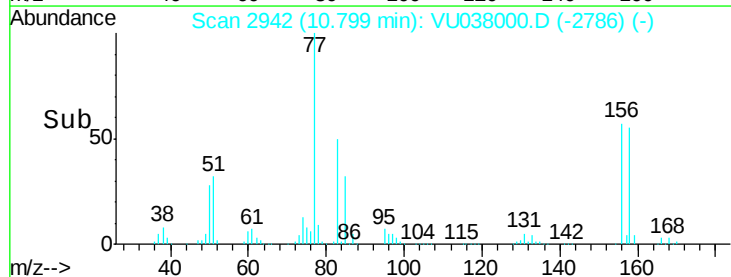
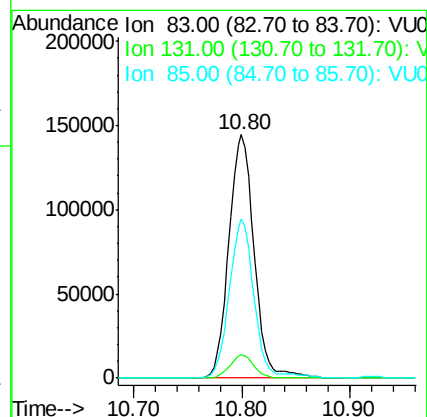
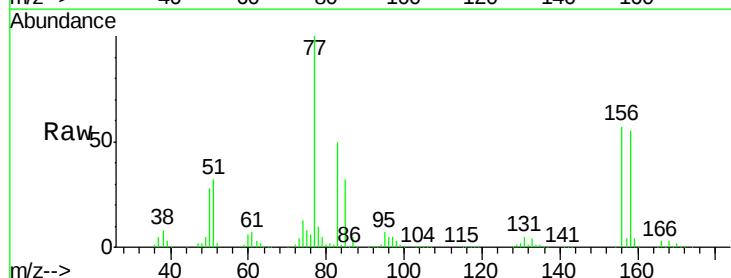
Tgt Ion: 83 Resp: 236460

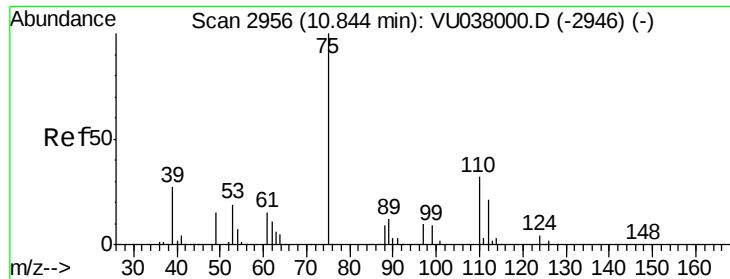
Ion Ratio Lower Upper

83 100

131 9.0 7.2 10.8

85 62.5 50.0 75.0





#71

1,2,3-Trichloropropane

Concen: 8.798 ug/l m

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

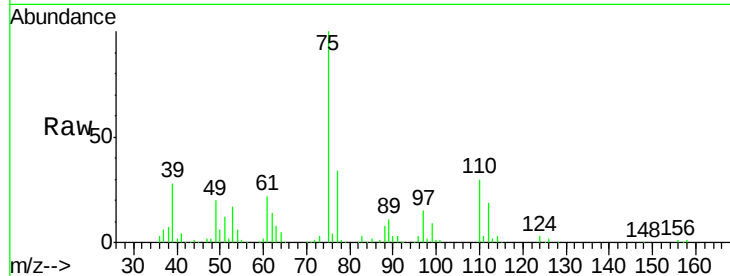
VSTDICCC010

| Tot Ion   | 75    | Resp  | 182520 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 47.3  | 0.0   | 108.6  |
| 110       | 34.5  | 0.0   | 79.4   |
| 97        | 17.6  | 0.0   | 40.4   |

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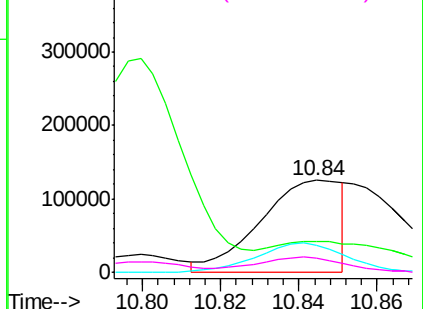
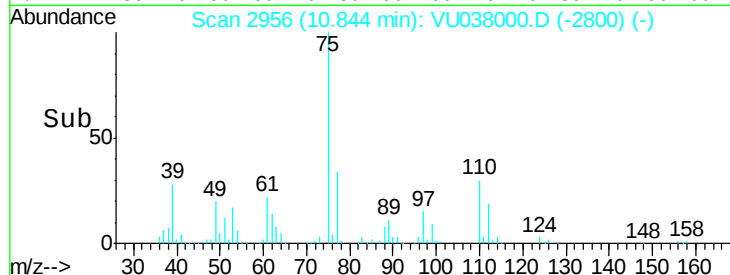


Abundance Ion 75.00 (74.70 to 75.70): VU038000.D (-2946) (-)

Ion 77.00 (76.70 to 77.70): VU038000.D (-2946) (-)

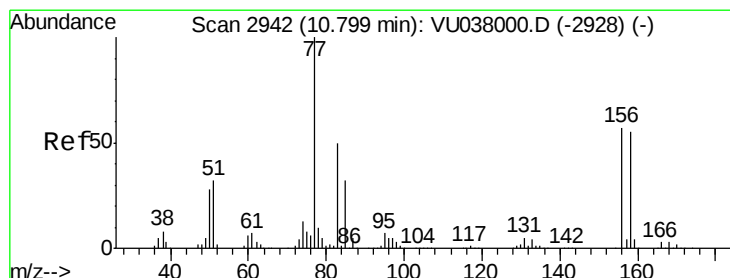
Ion 110.00 (109.70 to 110.70): VU038000.D (-2946) (-)

Ion 97.00 (96.70 to 97.70): VU038000.D (-2946) (-)



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#72

Bromobenzene

Concen: 9.266 ug/l

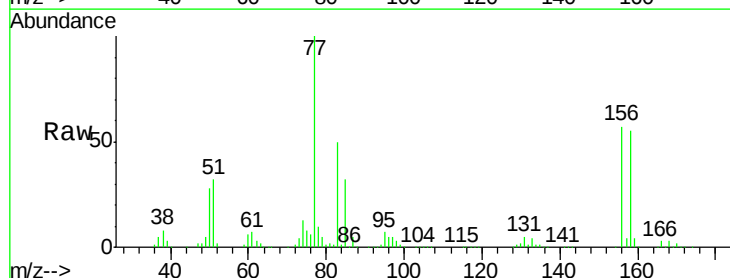
RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

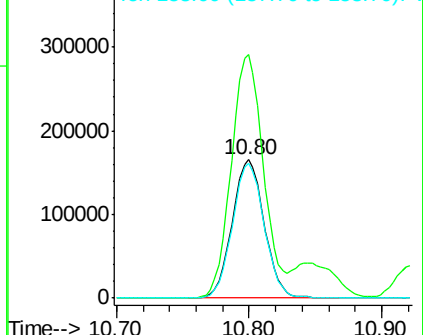
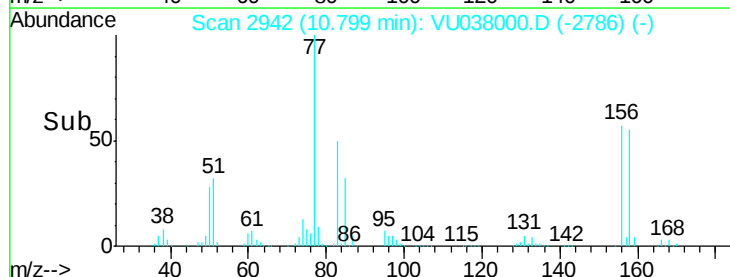
| Tgt Ion   | 156   | Resp  | 276689 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 177.8 | 0.0   | 355.6  |
| 158       | 97.0  | 0.0   | 194.0  |

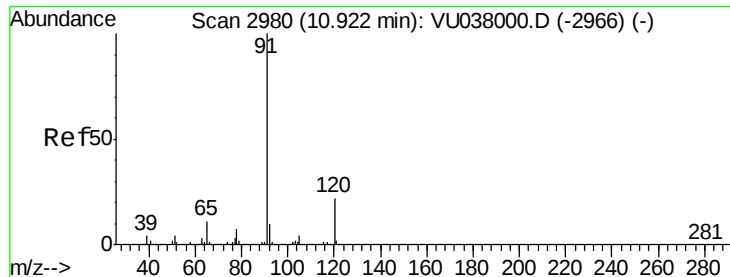


Abundance Ion 156.00 (155.70 to 156.70): VU038000.D (-2928) (-)

Ion 77.00 (76.70 to 77.70): VU038000.D (-2928) (-)

Ion 158.00 (157.70 to 158.70): VU038000.D (-2928) (-)





#73

n-propylbenzene

Concen: 10.610 ug/l

RT: 10.92 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

VSTDICCC010

Tot Ion:120 Resp: 347844

Ion Ratio Lower Upper

120 100

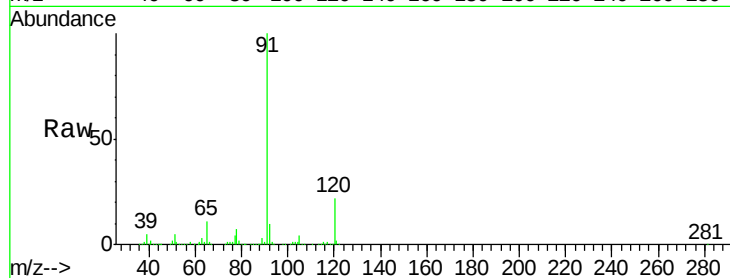
91 444.2 355.4 533.0

Manual Integrations

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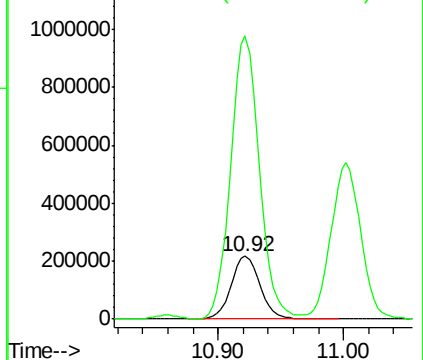
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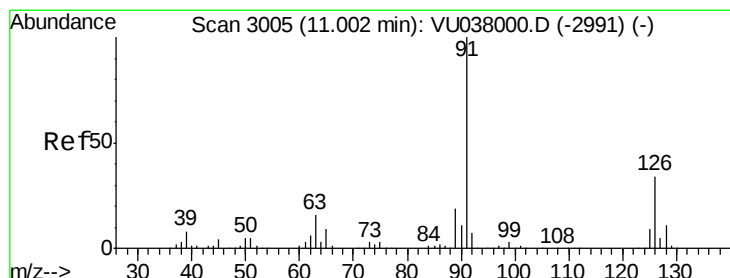
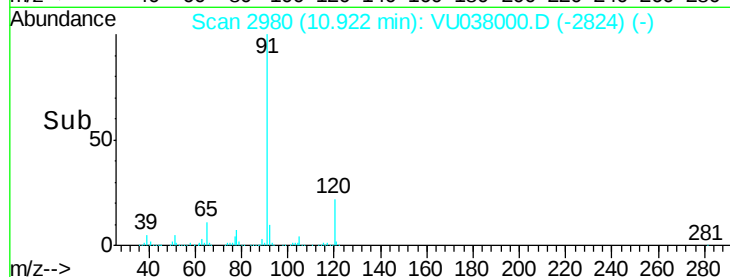
Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



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#74

2-Chlorotoluene

Concen: 9.619 ug/l

RT: 11.00 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU038000.D

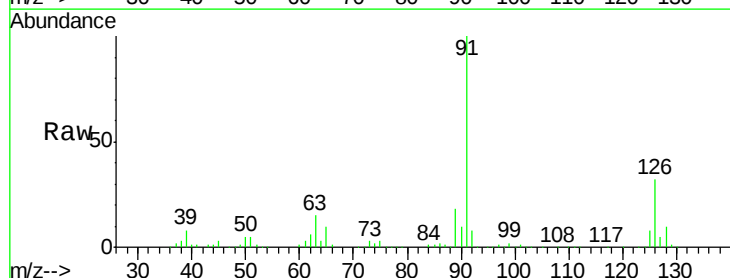
Acq: 04 May 2020 12:39

Tgt Ion:126 Resp: 282184

Ion Ratio Lower Upper

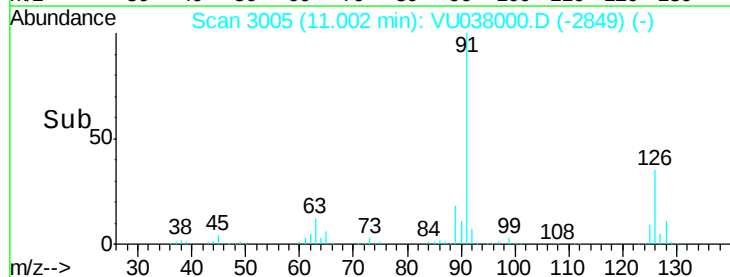
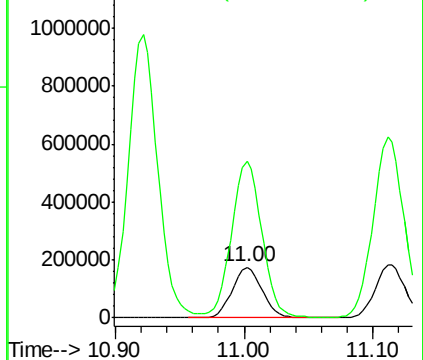
126 100

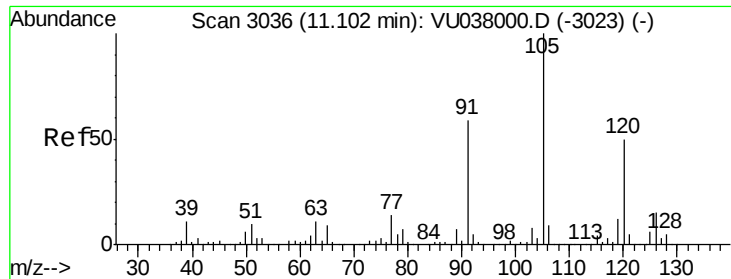
91 312.9 0.0 625.8



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 9.817 ug/l

RT: 11.10 min Scan# 3036

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampled :

VSTDICCC010

Tot Ion:105 Resp: 1037709

Ion Ratio Lower Upper

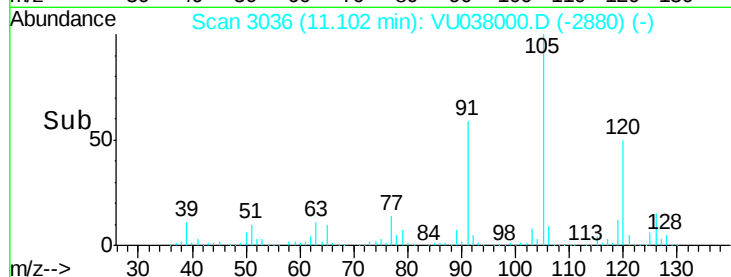
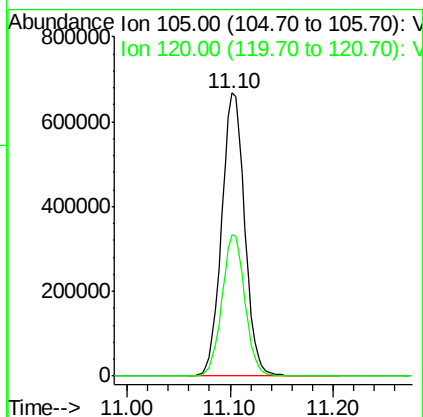
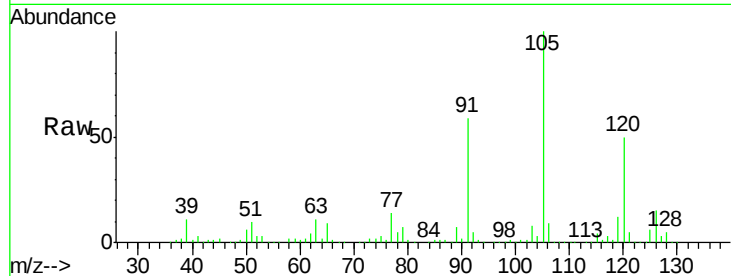
105 100

120 49.7 39.8 59.6

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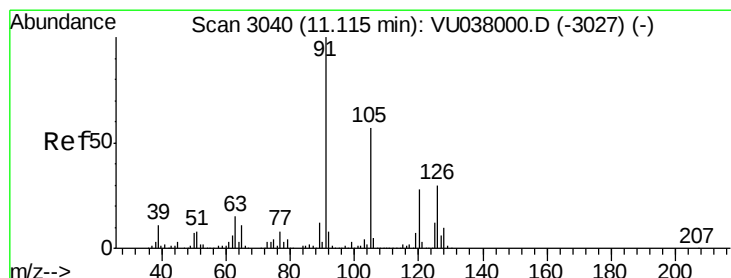
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#76

4-Chlorotoluene

Concen: 9.992 ug/l

RT: 11.11 min Scan# 3040

Delta R.T. 0.00 min

Lab File: VU038000.D

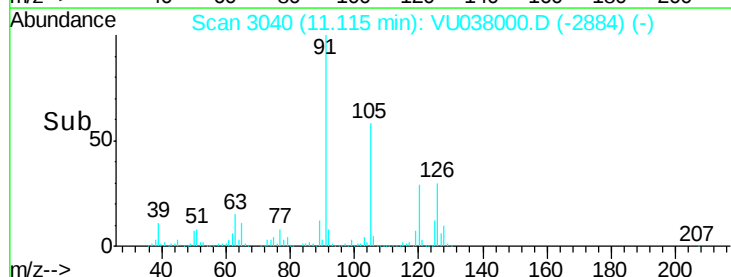
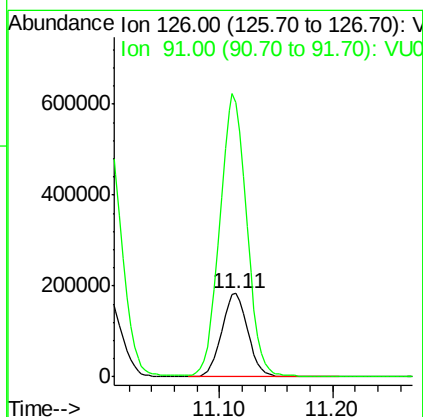
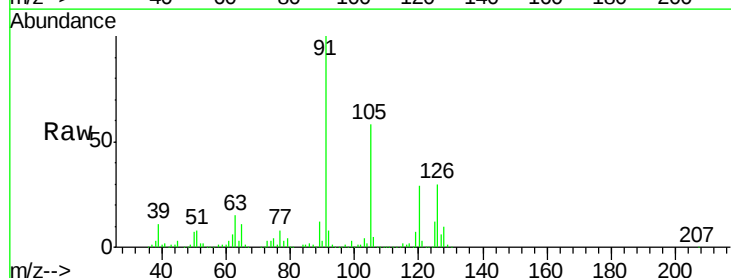
Acq: 04 May 2020 12:39

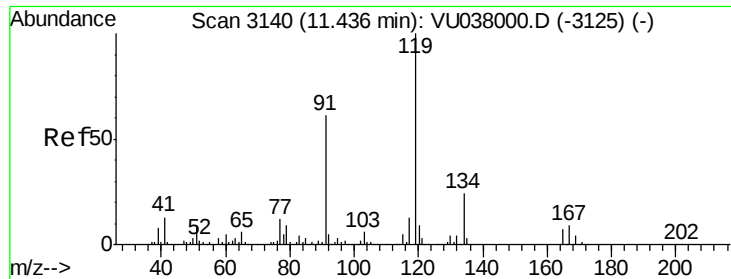
Tgt Ion:126 Resp: 296558

Ion Ratio Lower Upper

126 100

91 349.3 0.0 698.6





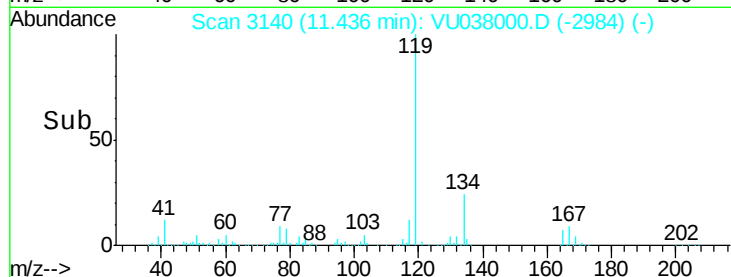
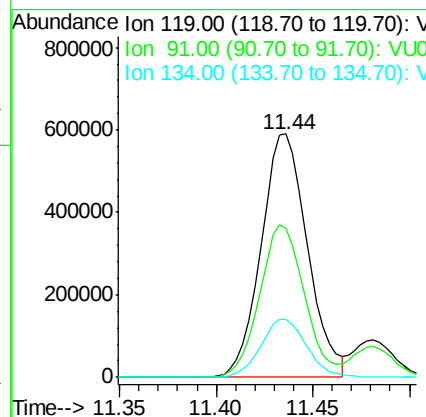
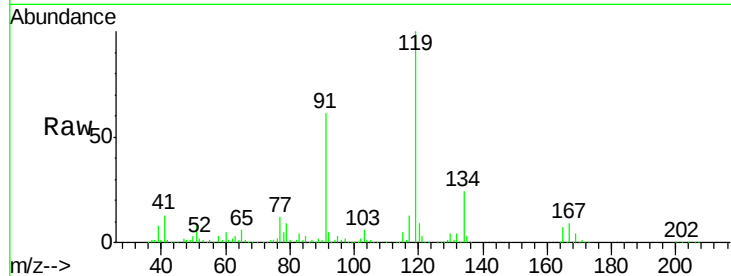
#77  
tert-Butylbenzene  
Concen: 9.514 ug/l  
RT: 11.44 min Scan# 3140  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDICCC010

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 981263 |       |       |
| 91      | 60.3  |        | 30.1  | 90.5  |
| 134     | 23.8  |        | 19.0  | 28.6  |

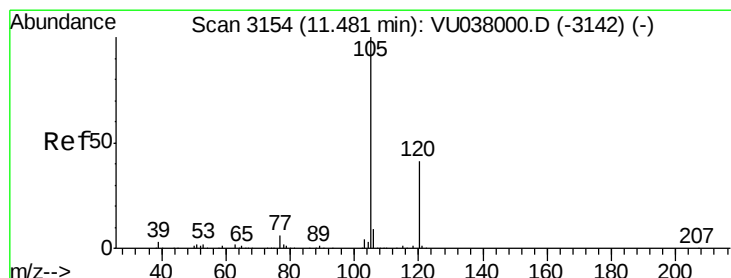
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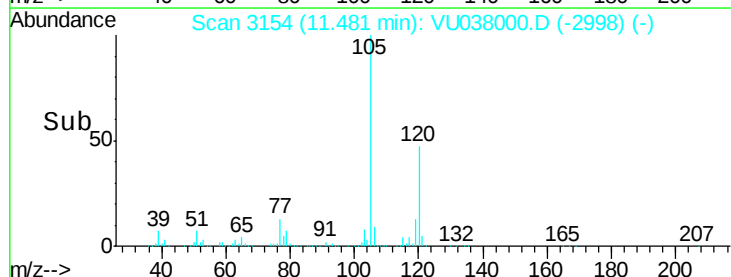
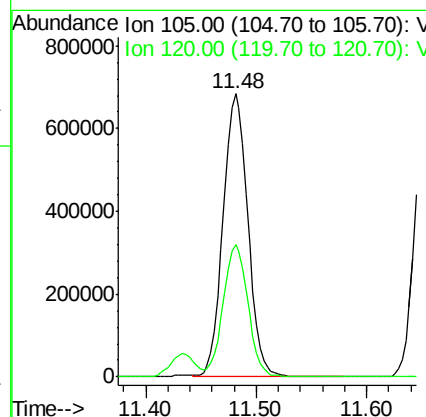
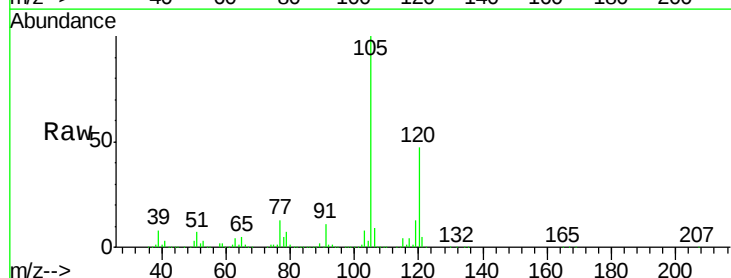
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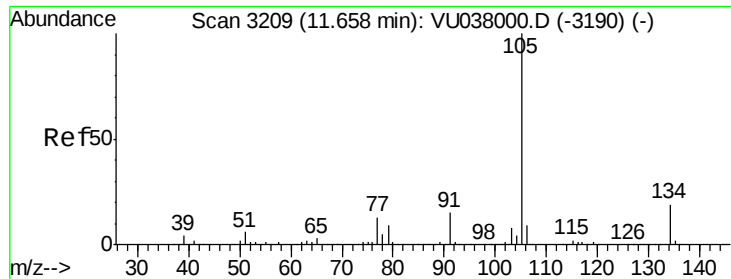
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#78  
1,2,4-Trimethylbenzene  
Concen: 10.016 ug/l  
RT: 11.48 min Scan# 3154  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 105     | 100   | 1066672 |       |       |
| 120     | 46.7  |         | 23.4  | 70.0  |





#79

sec-Butylbenzene

Concen: 9.977 ug/l

RT: 11.66 min Scan# 3209

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

Instrument :

MSVOA\_U

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 1410374

Ion Ratio Lower Upper

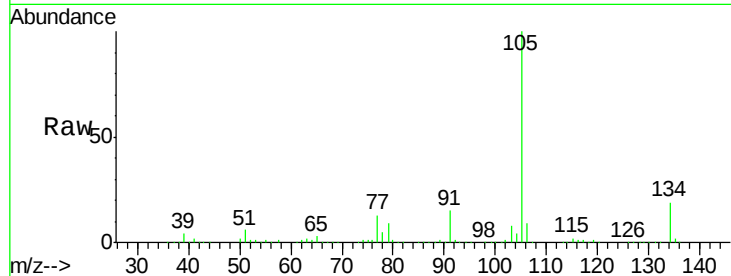
105 100

134 19.2 15.4 23.0

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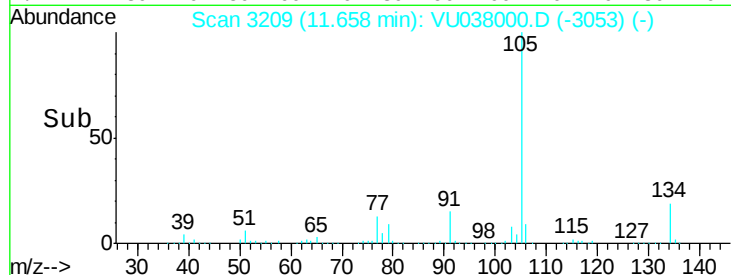
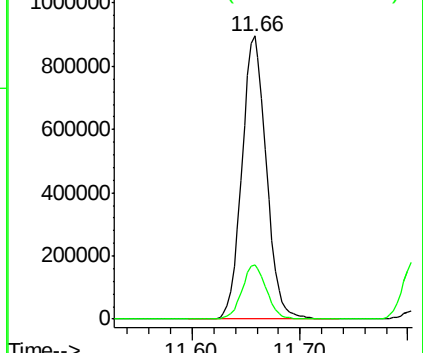
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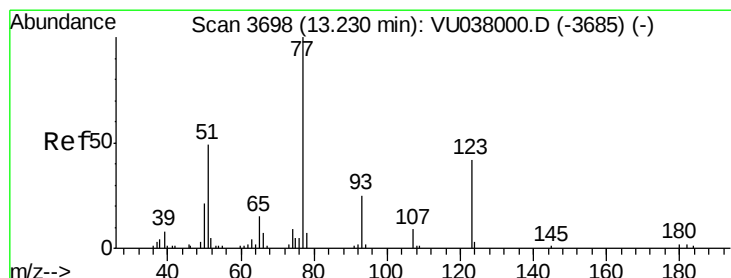
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



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#80

Nitrobenzene

Concen: 56.773 ug/l

RT: 13.23 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VU038000.D

Acq: 04 May 2020 12:39

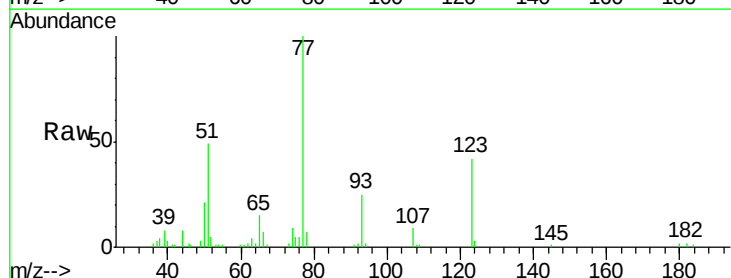
Tgt Ion: 77 Resp: 34046

Ion Ratio Lower Upper

77 100

123 40.1 17.6 62.6

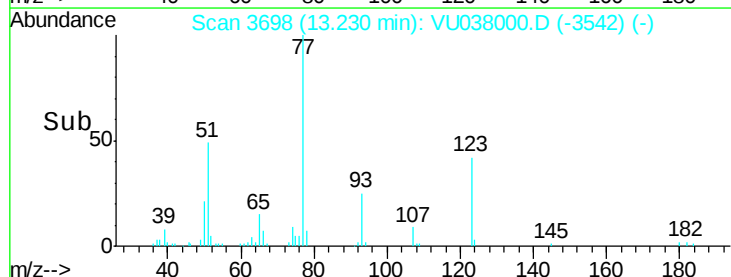
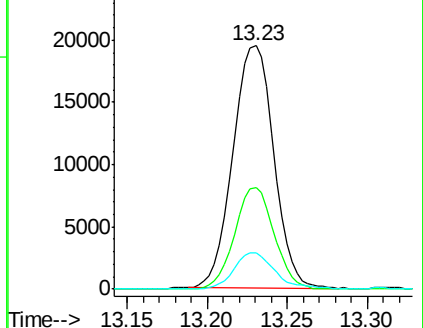
65 15.0 13.2 16.8

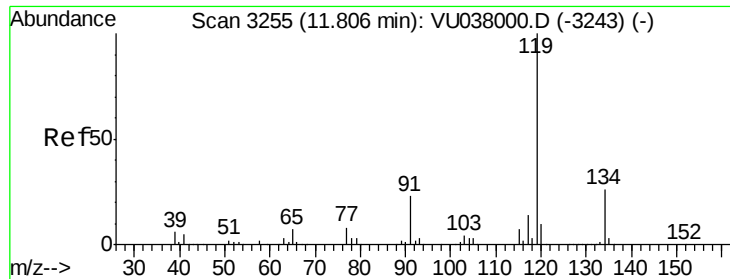


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





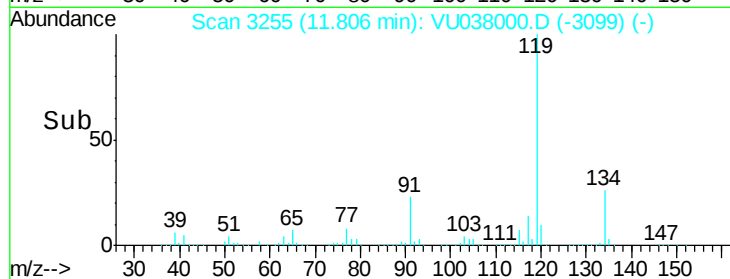
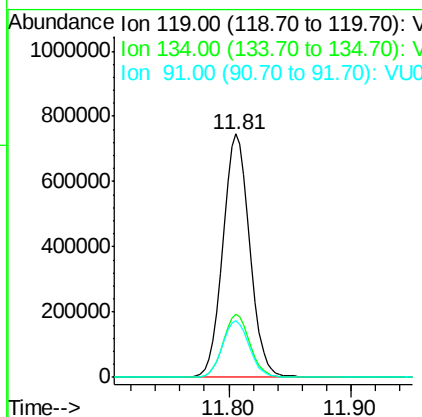
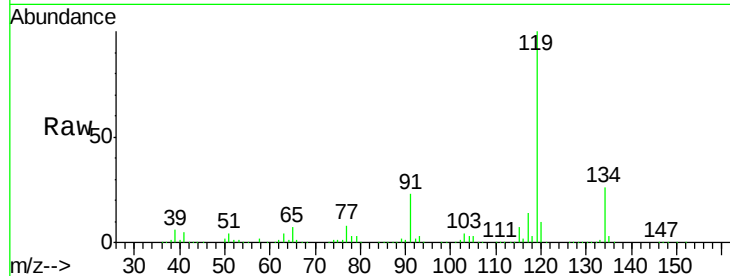
#81  
 p-Isopropyltoluene  
 Concen: 10.375 ug/l  
 RT: 11.81 min Scan# 3255  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.8  | 20.6  | 31.0  |
| 91      | 23.3  | 18.6  | 28.0  |

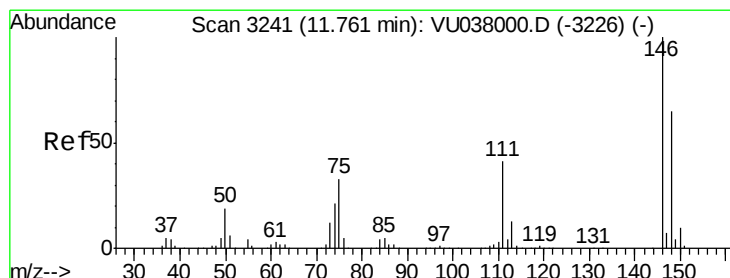
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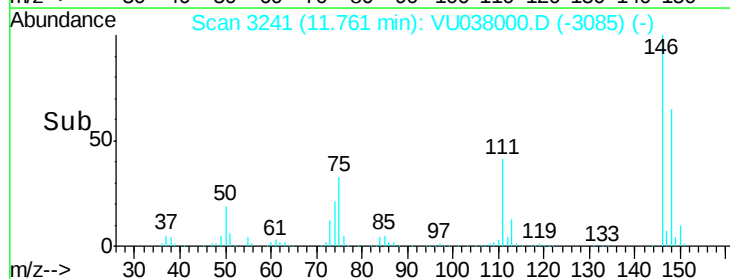
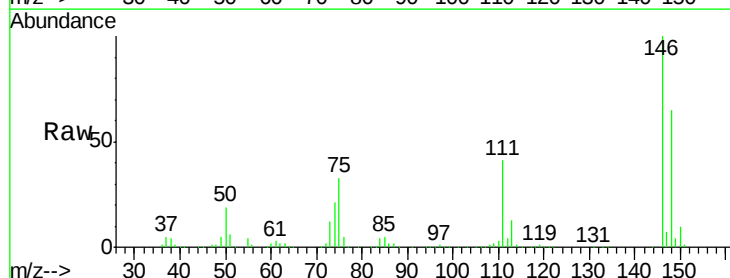
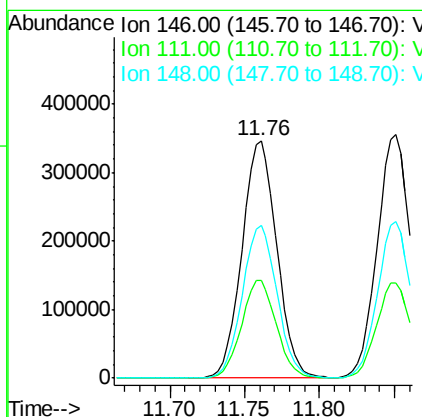
apatel

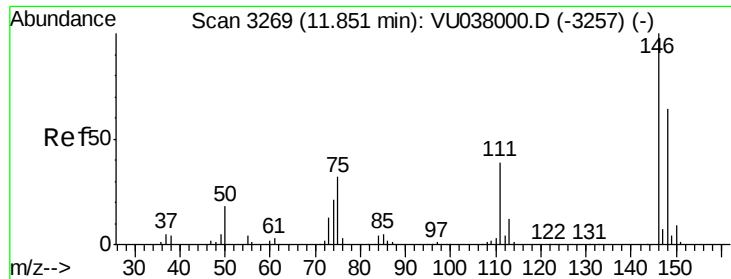
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#82  
 1,3-Dichlorobenzene  
 Concen: 9.533 ug/l  
 RT: 11.76 min Scan# 3241  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 33.0  | 49.4  |
| 148     | 64.3  | 51.4  | 77.2  |





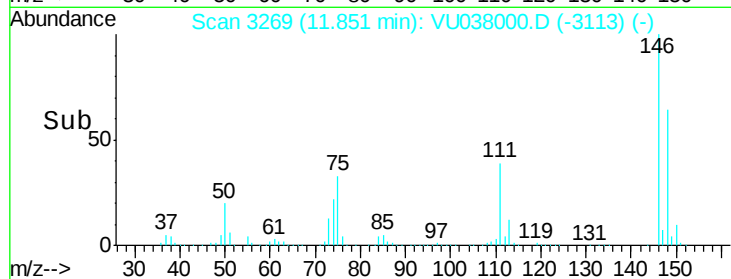
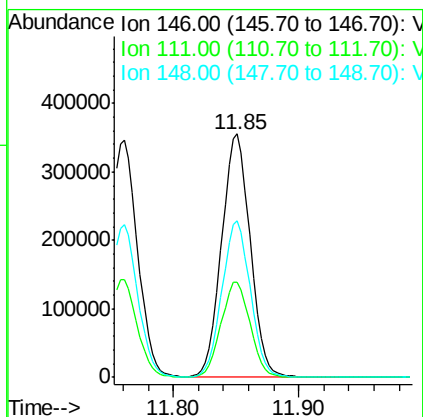
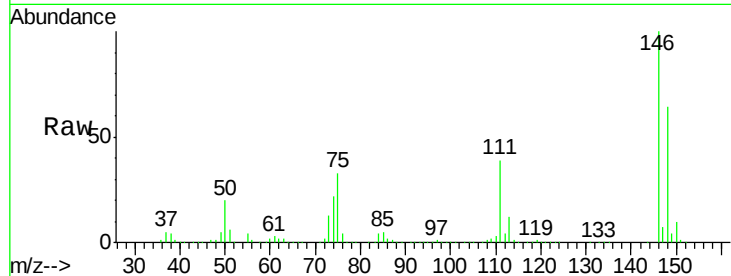
#83  
 1,4-Dichlorobenzene  
 Concen: 9.420 ug/l  
 RT: 11.85 min Scan# 3269  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 31.8  | 47.6  |
| 148     | 64.0  | 51.2  | 76.8  |

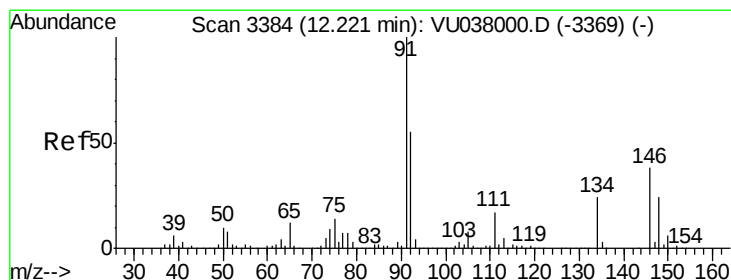
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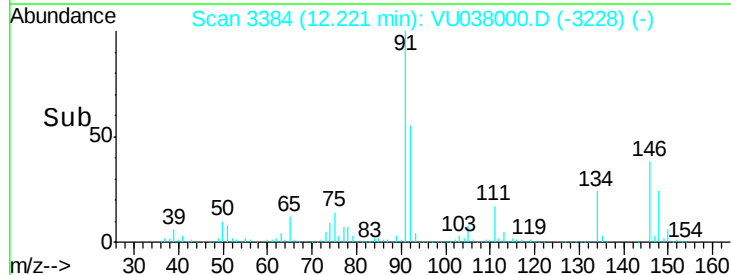
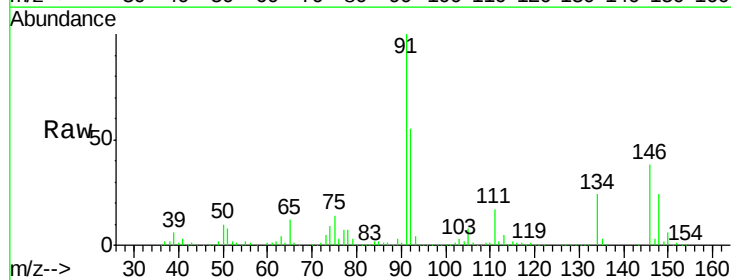
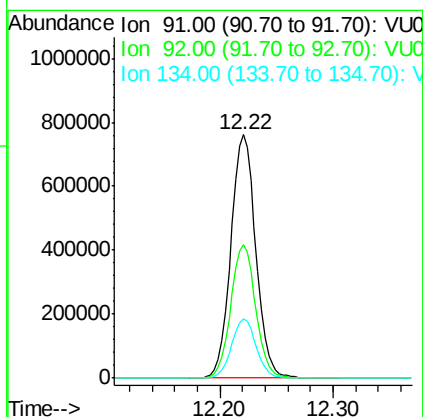
apatel

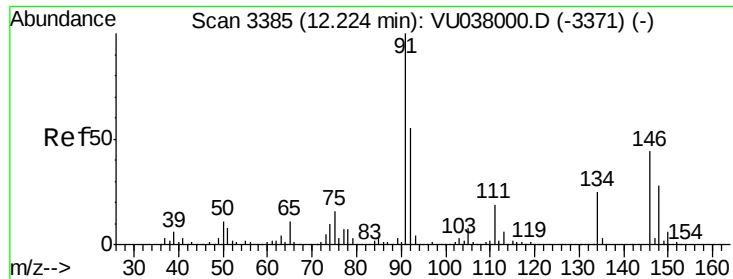
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#84  
 n-Butylbenzene  
 Concen: 10.940 ug/l  
 RT: 12.22 min Scan# 3384  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.7  | 43.8  | 65.6  |
| 134     | 24.3  | 19.4  | 29.2  |





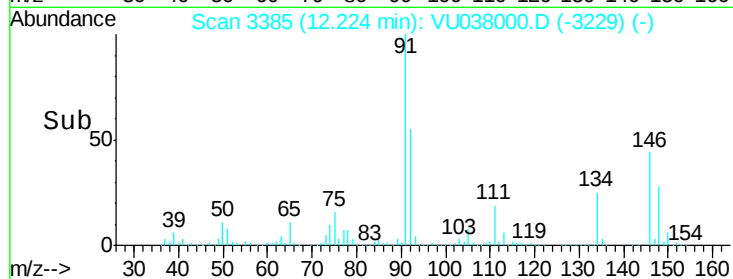
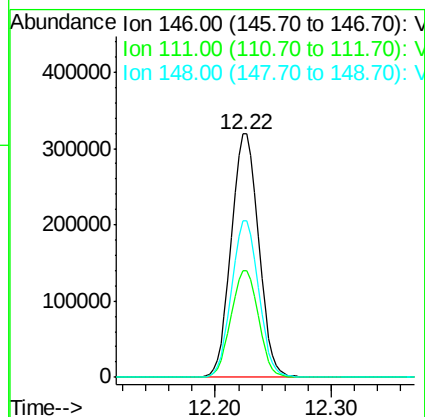
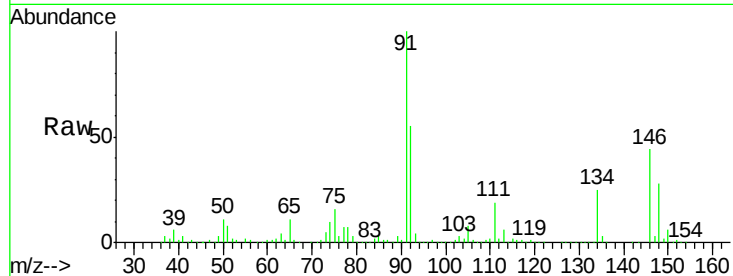
#85  
 1,2-Dichlorobenzene  
 Concen: 9.135 ug/l  
 RT: 12.22 min Scan# 3385  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.9  | 21.9  | 65.8  |
| 148     | 63.6  | 31.8  | 95.4  |

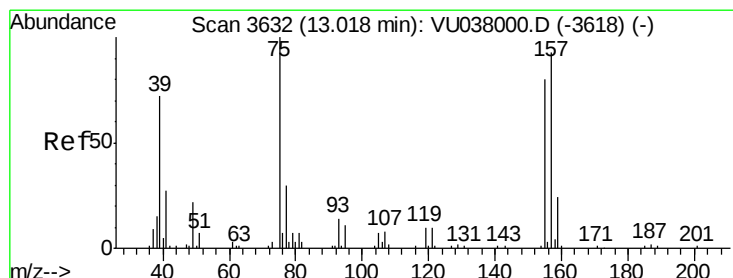
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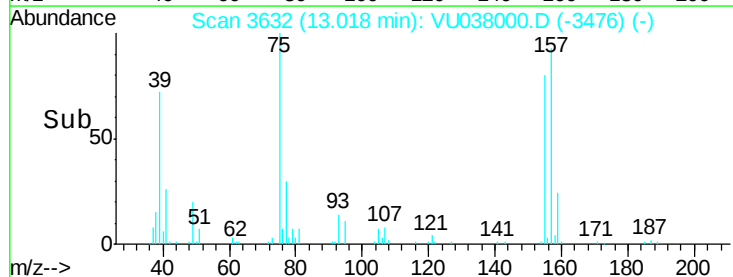
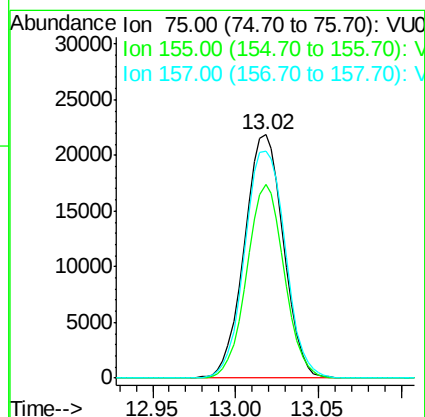
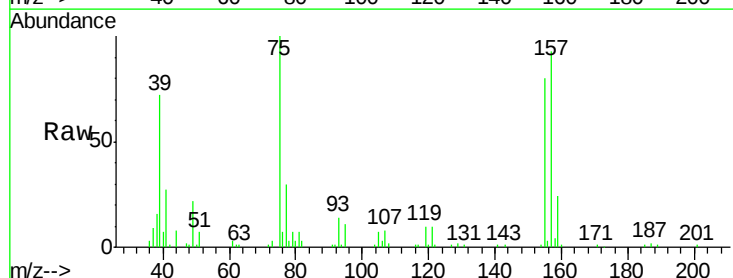
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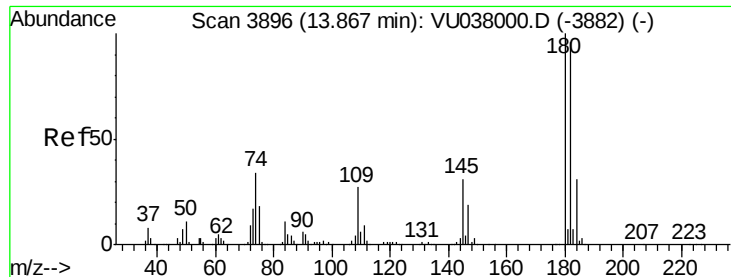
5/5/2020 11:15:47 AM



#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 7.987 ug/l  
 RT: 13.02 min Scan# 3632  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 76.1  | 60.9  | 91.3  |
| 157     | 97.6  | 78.1  | 117.1 |





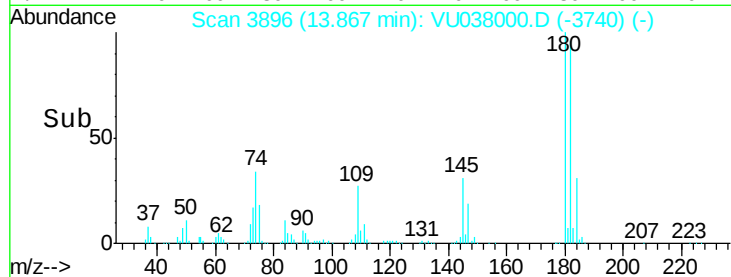
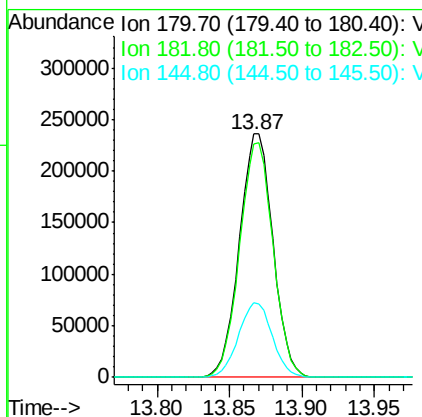
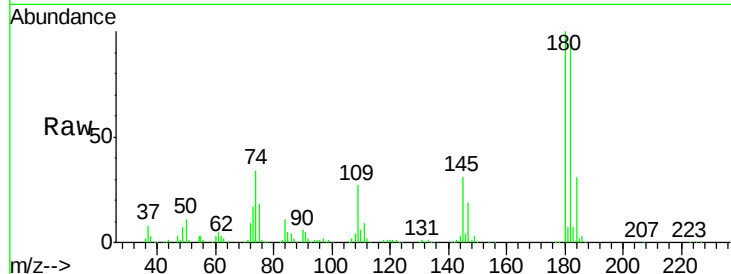
#87  
 1,2,4-Trichlorobenzene  
 Concen: 12.657 ug/l  
 RT: 13.87 min Scan# 3896  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.1  | 76.9  | 115.3 |
| 145     | 30.9  | 24.7  | 37.1  |

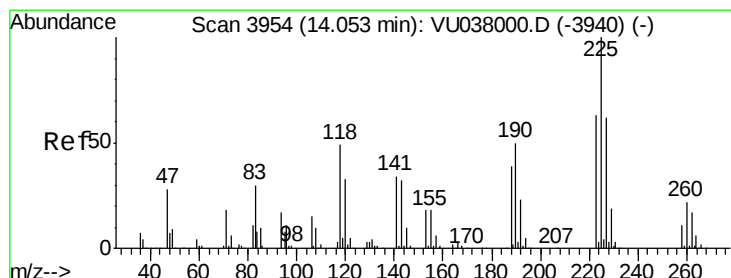
Manual Integrations  
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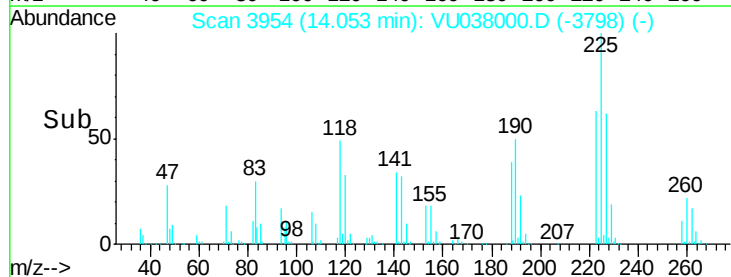
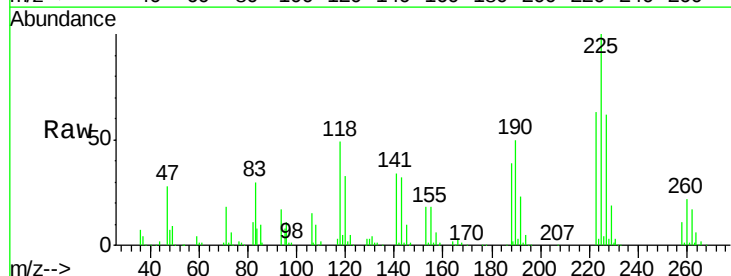
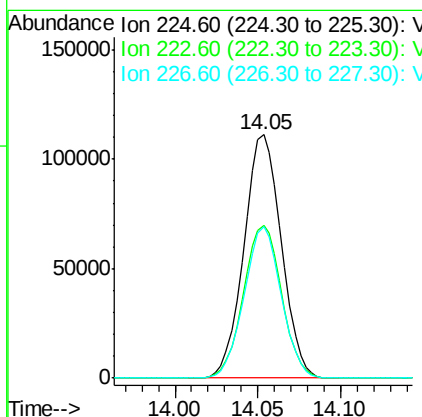
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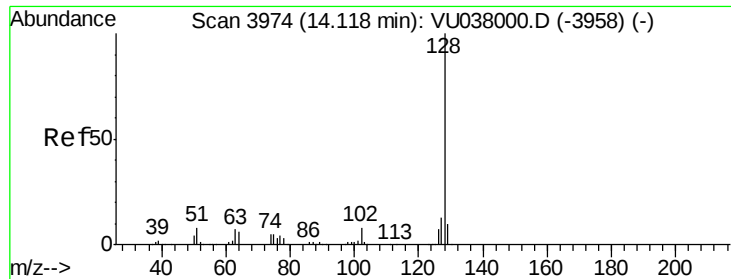
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#88  
 Hexachlorobutadiene  
 Concen: 9.754 ug/l  
 RT: 14.05 min Scan# 3954  
 Delta R.T. 0.00 min  
 Lab File: VU038000.D  
 Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.1  | 51.3  | 76.9  |
| 227     | 61.5  | 49.2  | 73.8  |





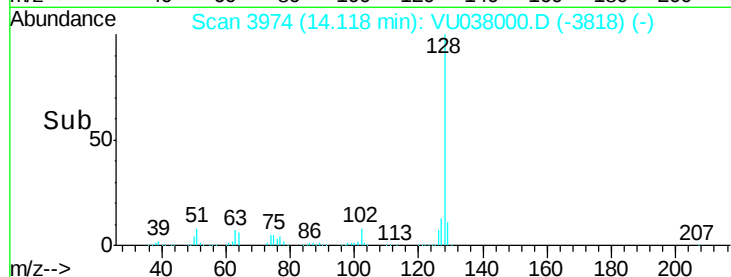
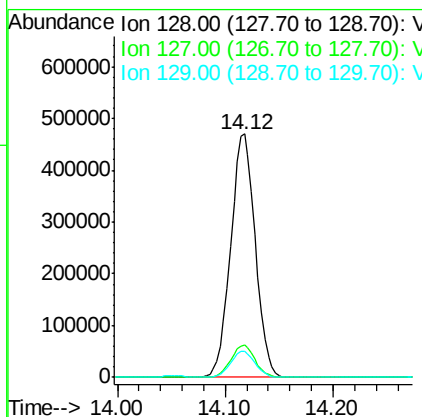
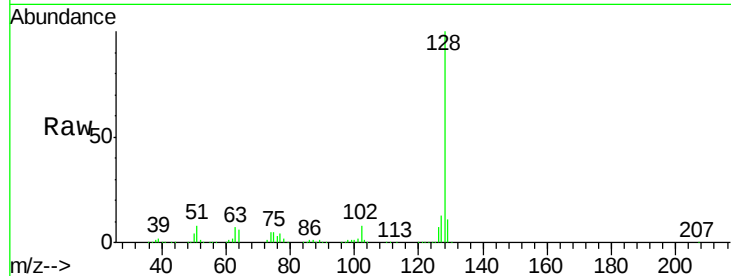
#89  
Naphthalene  
Concen: 14.403 ug/l  
RT: 14.12 min Scan# 3974  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.4  | 15.6  |
| 129     | 10.7  | 8.6   | 12.8  |

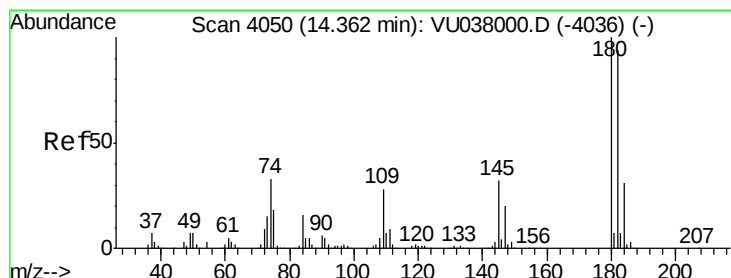
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#90  
1,2,3-Trichlorobenzene  
Concen: 11.897 ug/l  
RT: 14.36 min Scan# 4050  
Delta R.T. 0.00 min  
Lab File: VU038000.D  
Acq: 04 May 2020 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 75.9  | 113.9 |
| 145     | 32.5  | 26.0  | 39.0  |

