

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU033119\  
 Data File : VU030577.D  
 Acq On : 30 Mar 2019 17:27  
 Operator : JC/SP  
 Sample : K1560-09  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 31 01:17:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U033119DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Sun Mar 31 01:11:51 2019  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 5.74 | 96   | 46678    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |         |      |
|----------------------------|-------|-----|----------|------|---------|------|
| 57) 4-Bromofluorobenzene   | 10.31 | 95  | 16487    | 0.93 | ug/l    | 0.00 |
| Spiked Amount              | 1.000 |     | Recovery | =    | 93.00%  |      |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 16760    | 1.01 | ug/l    | 0.00 |
| Spiked Amount              | 1.000 |     | Recovery | =    | 101.00% |      |

## Target Compounds

|                               |      |     |       |       | Ovalue    |
|-------------------------------|------|-----|-------|-------|-----------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 5661  | 0.288 | ug/l 96   |
| 3) Chloromethane              | 1.33 | 50  | 8331  | 0.328 | ug/l 94   |
| 4) Vinyl Chloride             | 1.40 | 62  | 6399  | 0.292 | ug/l 93   |
| 5) Bromomethane               | 1.63 | 94  | 2210  | 0.234 | ug/l 94   |
| 6) Chloroethane               | 1.70 | 64  | 4033  | 0.319 | ug/l # 87 |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 7120  | 0.296 | ug/l 99   |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 4101  | 0.335 | ug/l 94   |
| 9) 1,1-Dichloroethene         | 2.28 | 96  | 3719  | 0.302 | ug/l 90   |
| 10) Iodomethane               | 2.40 | 142 | 807   | 0.555 | ug/l # 51 |
| 11) Allyl Chloride            | 2.59 | 41  | 7160  | 0.267 | ug/l 86   |
| 12) Acrylonitrile             | 2.94 | 53  | 2305  | 0.659 | ug/l 97   |
| 13) Acetone                   | 2.32 | 43  | 5947  | 1.816 | ug/l 97   |
| 14) Carbon Disulfide          | 2.47 | 76  | 14246 | 0.317 | ug/l 96   |
| 15) Methylene Chloride        | 2.69 | 84  | 5994  | 0.384 | ug/l 95   |
| 16) trans-1,2-Dichloroethene  | 2.97 | 96  | 4213  | 0.303 | ug/l 95   |
| 17) 1,1-Dichloroethane        | 3.43 | 63  | 8905  | 0.315 | ug/l 97   |
| 18) 2-Butanone                | 4.30 | 43  | 3855  | 0.910 | ug/l 97   |
| 19) Cyclohexane               | 4.98 | 56  | 5542  | 0.233 | ug/l 87   |
| 20) Methylcyclohexane         | 6.41 | 83  | 5198  | 0.249 | ug/l 93   |
| 21) 2,2-Dichloropropane       | 4.22 | 77  | 5635  | 0.260 | ug/l # 88 |
| 22) cis-1,2-Dichloroethene    | 4.22 | 96  | 4086  | 0.274 | ug/l 97   |
| 23) Diethyl Ether             | 2.10 | 59  | 3915  | 0.335 | ug/l 93   |
| 24) tert-Butyl Alcohol        | 2.84 | 59  | 2380  | 1.965 | ug/l 96   |
| 25) Methyl tert-Butyl Ether   | 3.00 | 73  | 11386 | 0.320 | ug/l 92   |
| 26) Bromochloromethane        | 4.55 | 128 | 1744  | 0.298 | ug/l 97   |
| 27) Chloroform                | 4.67 | 83  | 7974  | 0.302 | ug/l 100  |
| 28) 1,1,1-Trichloroethane     | 4.91 | 97  | 6045  | 0.278 | ug/l 93   |
| 29) 1,1-Dichloropropene       | 5.13 | 75  | 5490  | 0.281 | ug/l 94   |
| 30) Carbon Tetrachloride      | 5.12 | 117 | 5114  | 0.281 | ug/l 89   |
| 31) Isopropyl Ether           | 3.58 | 45  | 13177 | 0.280 | ug/l 89   |
| 32) Ethyl-t-butyl ether       | 4.08 | 59  | 11012 | 0.294 | ug/l 99   |
| 33) Tert-Amyl methyl ether    | 5.59 | 73  | 7433  | 0.248 | ug/l 93   |
| 34) Propionitrile             | 4.35 | 54  | 778   | 0.676 | ug/l # 67 |
| 35) Benzene                   | 5.39 | 78  | 15353 | 0.266 | ug/l # 85 |
| 36) 1,2-Dichloroethane        | 5.41 | 62  | 4916  | 0.279 | ug/l # 94 |
| 37) Trichloroethene           | 6.19 | 130 | 3777  | 0.273 | ug/l 92   |
| 38) 1,2-Dichloropropane       | 6.43 | 63  | 4797  | 0.300 | ug/l 99   |
| 39) Methacrylonitrile         | 4.57 | 41  | 1128  | 0.217 | ug/l # 64 |
| 41) Tetrahydrofuran           | 4.66 | 42  | 754   | 0.256 | ug/l # 85 |
| 42) 1-Chlorobutane            | 5.06 | 56  | 7616  | 0.261 | ug/l 83   |
| 43) Dibromomethane            | 6.56 | 93  | 2053  | 0.283 | ug/l 96   |

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Quant Time: Mar 31 01:17:30 2019  
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 QLast Update : Sun Mar 31 01:11:51 2019  
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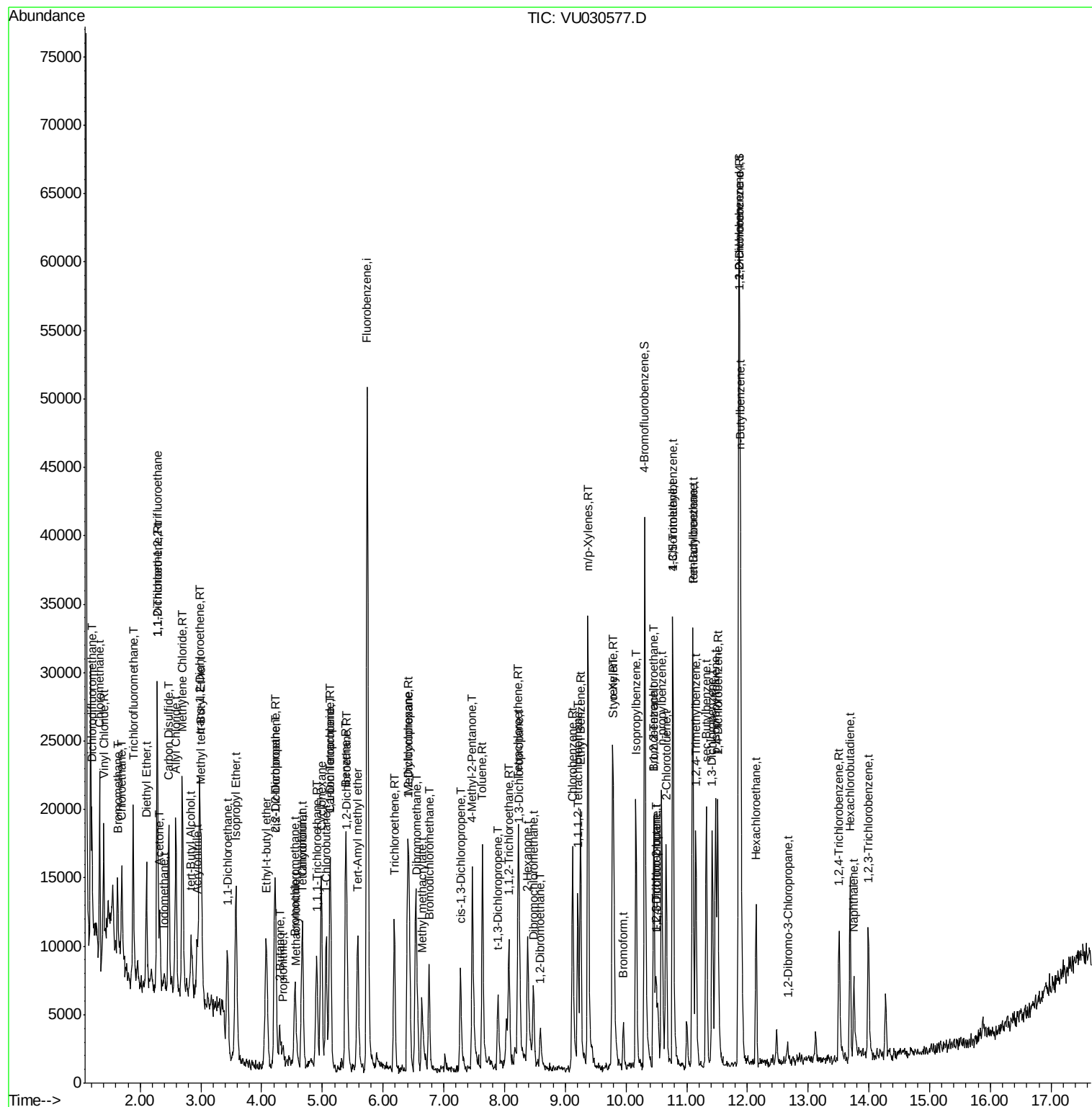
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 44) Bromodichloromethane       | 6.76  | 83   | 5710     | 0.297 | ug/l # | 81       |
| 45) 4-Methyl-2-Pentanone       | 7.47  | 43   | 12508    | 1.254 | ug/l   | 98       |
| 46) t-1,4-Dichloro-2-butene    | 10.50 | 75   | 2104     | 0.657 | ug/l # | 59       |
| 47) Methyl methacrylate        | 6.64  | 69   | 2858     | 0.465 | ug/l # | 92       |
| 49) Toluene                    | 7.64  | 92   | 7422     | 0.235 | ug/l   | 90       |
| 50) t-1,3-Dichloropropene      | 7.89  | 75   | 3861     | 0.240 | ug/l # | 87       |
| 51) cis-1,3-Dichloropropene    | 7.28  | 75   | 4962     | 0.248 | ug/l   | 91       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 2698     | 0.273 | ug/l   | 94       |
| 53) 1,3-Dichloropropane        | 8.25  | 76   | 4719     | 0.261 | ug/l   | 91       |
| 54) 2-Hexanone                 | 8.38  | 43   | 9313     | 1.383 | ug/l   | 85       |
| 55) Dibromochloromethane       | 8.48  | 129  | 3389     | 0.296 | ug/l   | 84       |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 2737     | 0.298 | ug/l   | 83       |
| 58) Tetrachloroethene          | 8.22  | 164  | 3683     | 0.297 | ug/l   | 95       |
| 59) Chlorobenzene              | 9.13  | 112  | 9969     | 0.292 | ug/l   | 94       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 3730     | 0.294 | ug/l   | 96       |
| 61) Pentachloroethane          | 11.10 | 117  | 2771     | 0.284 | ug/l   | 92       |
| 62) Hexachloroethane           | 12.15 | 117  | 2368     | 0.278 | ug/l   | 91       |
| 63) Ethyl Benzene              | 9.25  | 91   | 13986    | 0.230 | ug/l   | 96       |
| 64) m/p-Xylenes                | 9.37  | 106  | 9804     | 0.442 | ug/l   | 86       |
| 65) o-Xylene                   | 9.78  | 106  | 5178     | 0.243 | ug/l   | 97       |
| 66) Styrene                    | 9.80  | 104  | 7320     | 0.203 | ug/l # | 88       |
| 67) Bromoform                  | 9.96  | 173  | 1639     | 0.261 | ug/l # | 96       |
| 69) Isopropylbenzene           | 10.17 | 105  | 13388    | 0.230 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 4368     | 0.316 | ug/l # | 94       |
| 71) 1,2,3-Trichloropropane     | 10.50 | 75   | 2104     | 0.238 | ug/l # | 96       |
| 72) Bromobenzene               | 10.46 | 156  | 3676     | 0.264 | ug/l   | 95       |
| 73) n-propylbenzene            | 10.59 | 120  | 3326     | 0.223 | ug/l   | 91       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 3096     | 0.224 | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 10515    | 0.215 | ug/l   | 99       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 3456     | 0.246 | ug/l   | 93       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 11354    | 0.246 | ug/l   | 95       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 10737    | 0.222 | ug/l   | 97       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 13667    | 0.217 | ug/l   | 100      |
| 81) p-Isopropyltoluene         | 11.48 | 119  | 10542    | 0.218 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene        | 11.42 | 146  | 8297     | 0.298 | ug/l   | 97       |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 7646     | 0.274 | ug/l   | 92       |
| 84) n-Butylbenzene             | 11.89 | 91   | 10851    | 0.232 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 8024     | 0.306 | ug/l   | 94       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.67 | 75   | 444      | 0.219 | ug/l # | 75       |
| 87) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 4210     | 0.281 | ug/l   | 93       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 2725     | 0.289 | ug/l   | 96       |
| 89) Naphthalene                | 13.75 | 128  | 7626     | 0.292 | ug/l # | 92       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 4247     | 0.299 | ug/l   | 92       |
| -----                          |       |      |          |       |        |          |

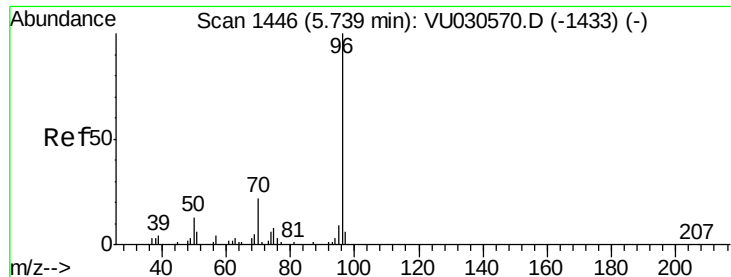
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 96 Resp: 46678

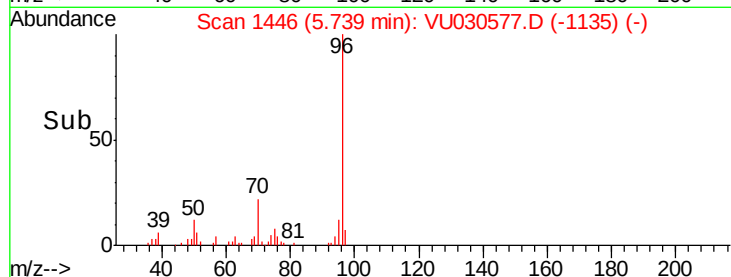
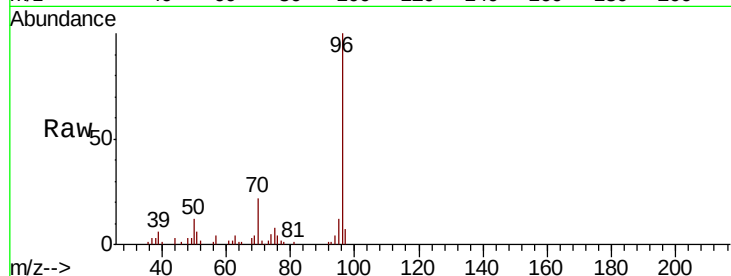
Ion Ratio Lower Upper

96 100

70 23.9 15.6 23.4#

95 10.8 7.3 10.9

97 6.2 0.0 0.0#

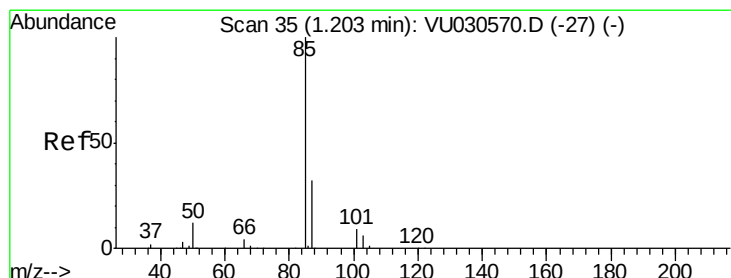
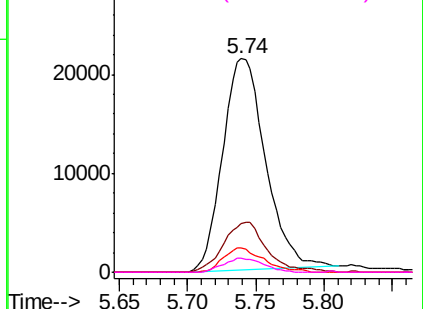


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 0.288 ug/l

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030577.D

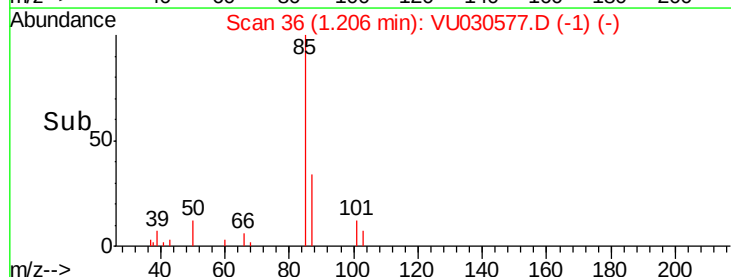
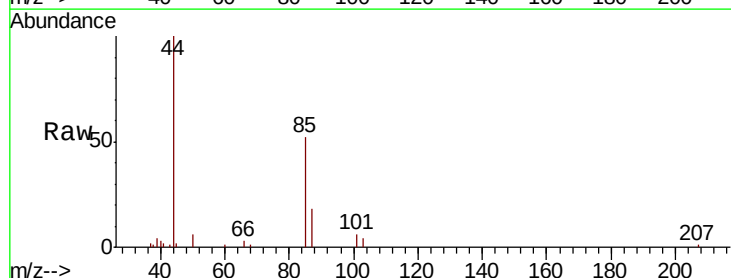
Acq: 30 Mar 2019 17:27

Tgt Ion: 85 Resp: 5661

Ion Ratio Lower Upper

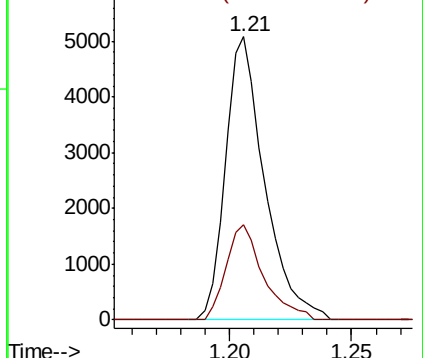
85 100

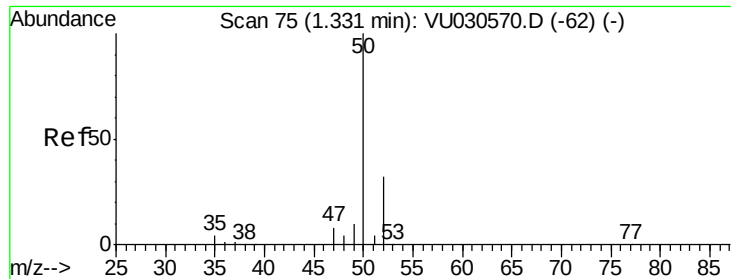
87 33.9 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 0.328 ug/l

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

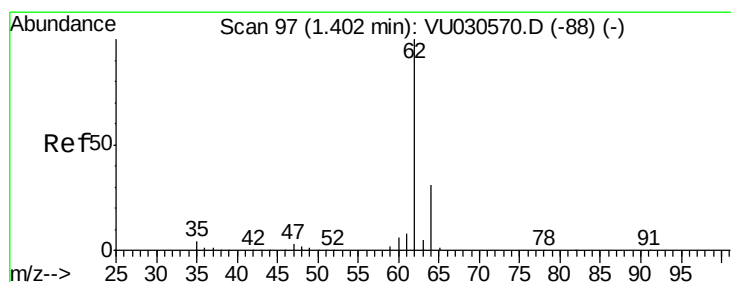
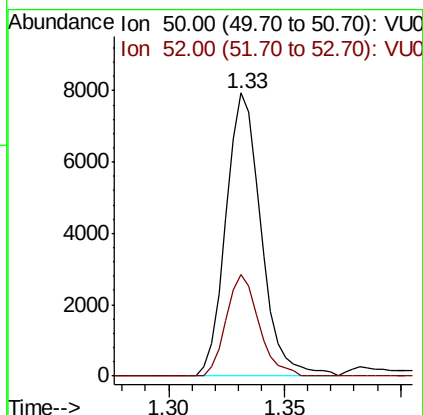
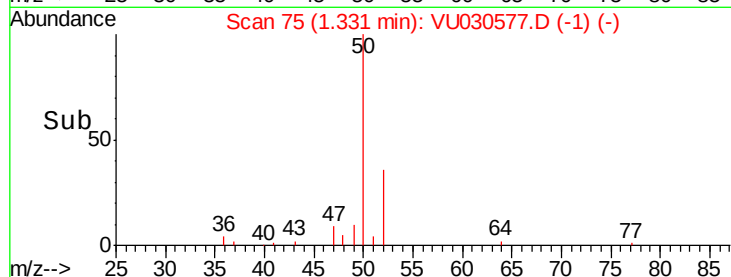
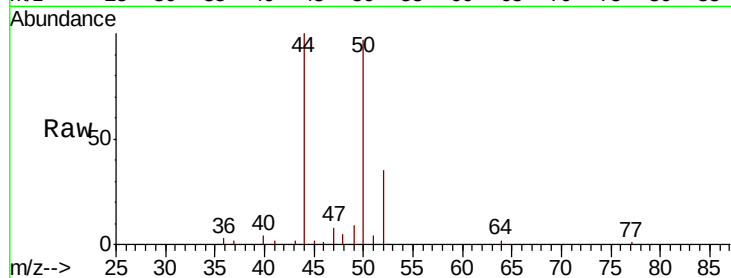
ClientSampleId :

Tot Ion: 50 Resp: 8331

Ion Ratio Lower Upper

50 100

52 35.9 25.8 38.8



#4

Vinyl Chloride

Concen: 0.292 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030577.D

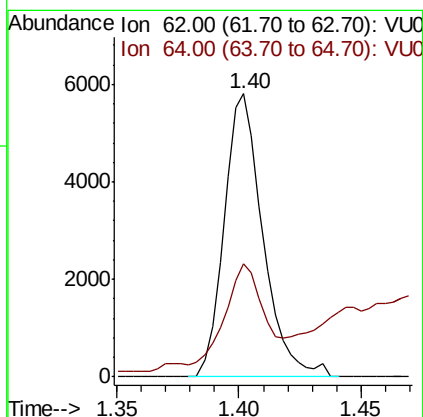
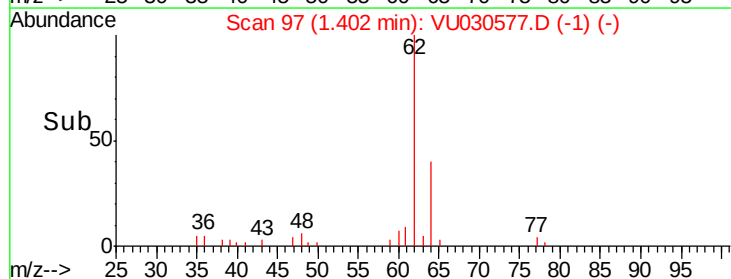
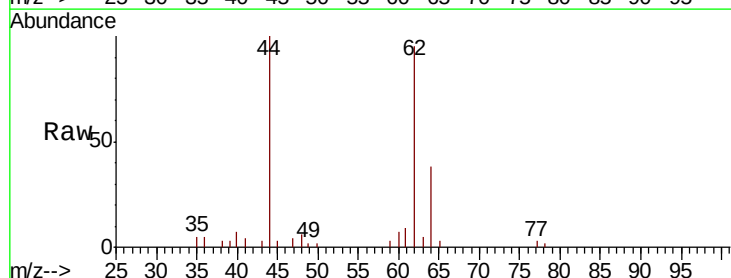
Acq: 30 Mar 2019 17:27

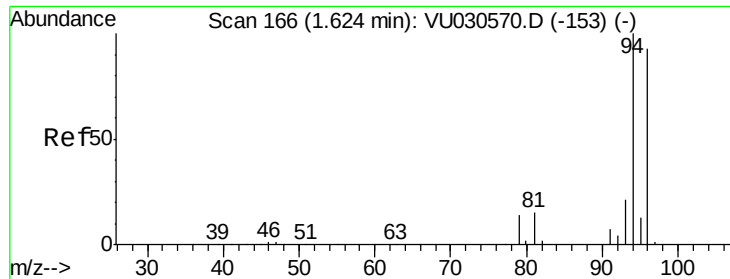
Tgt Ion: 62 Resp: 6399

Ion Ratio Lower Upper

62 100

64 35.4 25.1 37.7

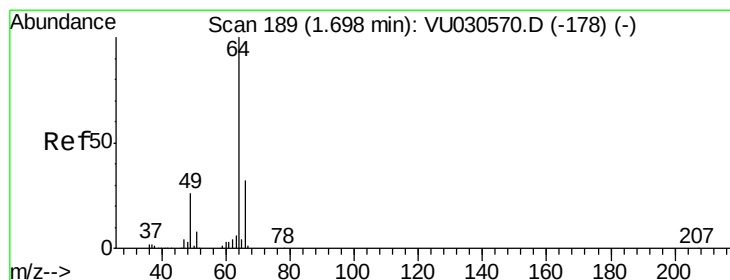
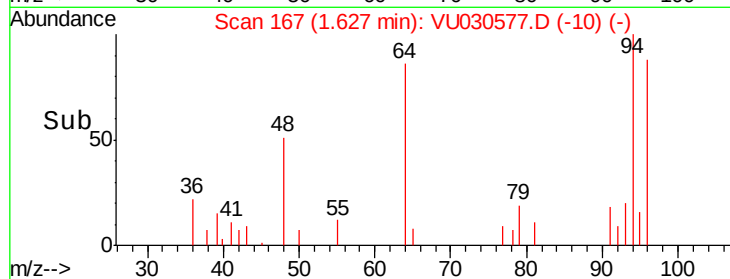
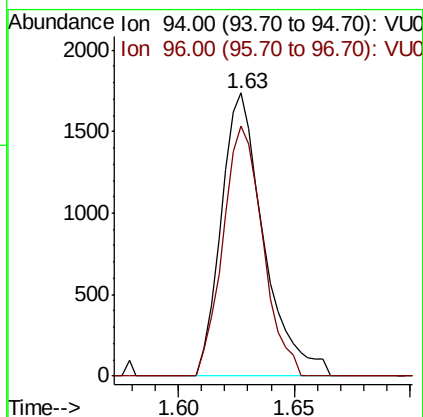
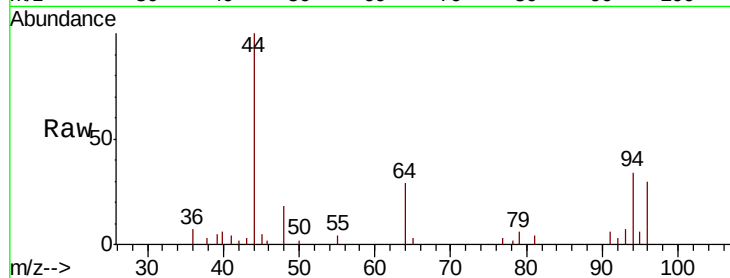




#5  
Bromomethane  
Concen: 0.234 ug/l  
RT: 1.63 min Scan# 167  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

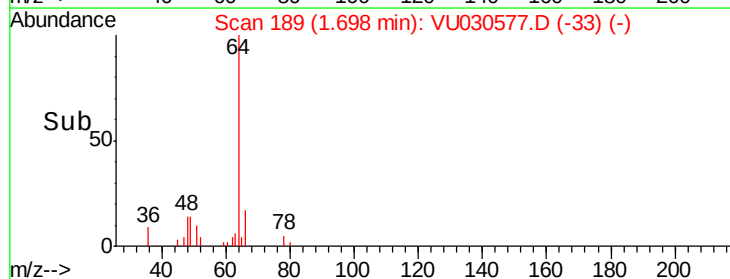
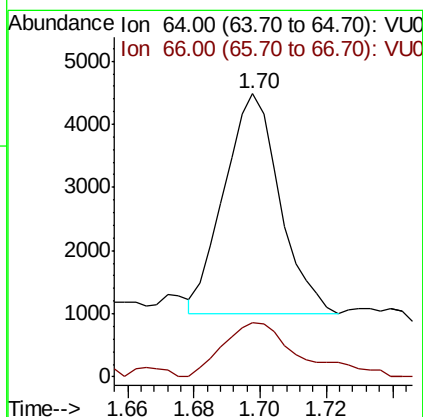
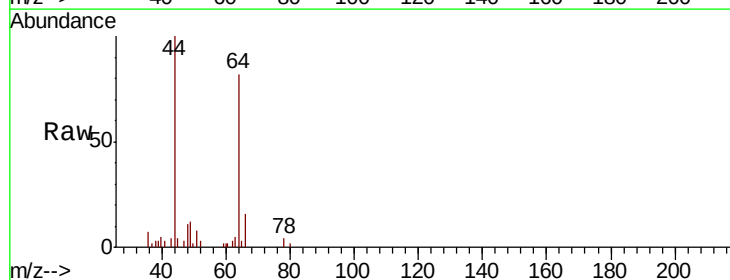
Instrument :  
MSVOA\_U  
ClientSampleId :

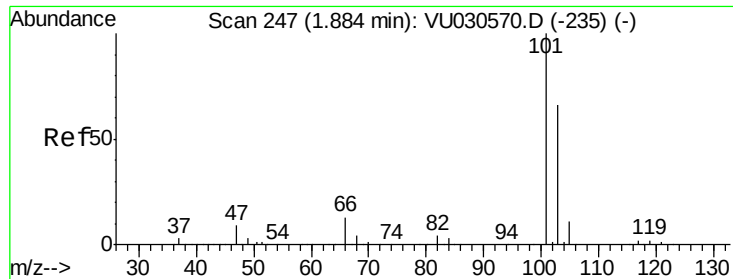
Tot Ion: 94 Resp: 2210  
Ion Ratio Lower Upper  
94 100  
96 88.2 74.8 112.2



#6  
Chloroethane  
Concen: 0.319 ug/l  
RT: 1.70 min Scan# 189  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 64 Resp: 4033  
Ion Ratio Lower Upper  
64 100  
66 24.6 25.5 38.3#



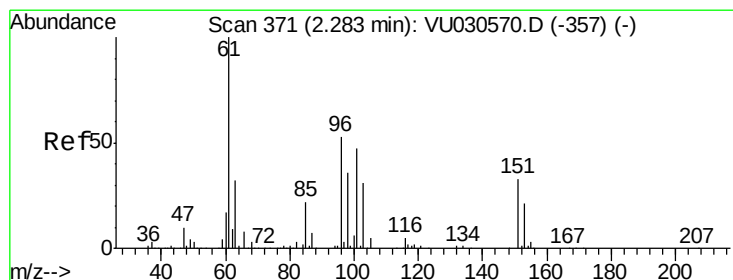
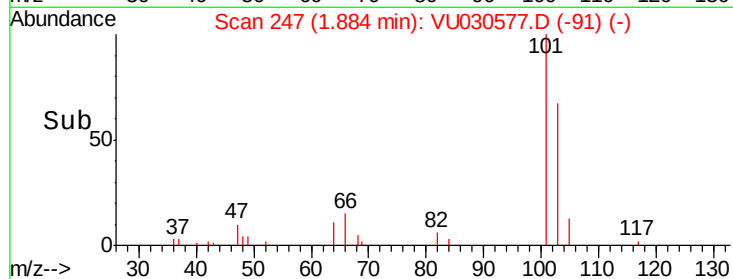
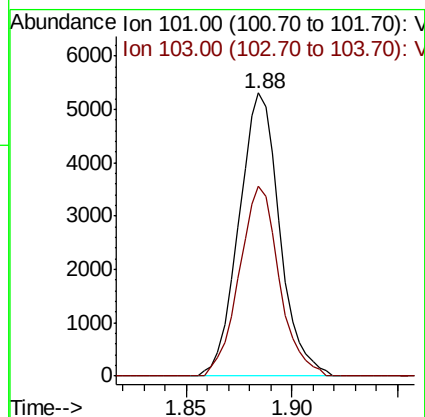
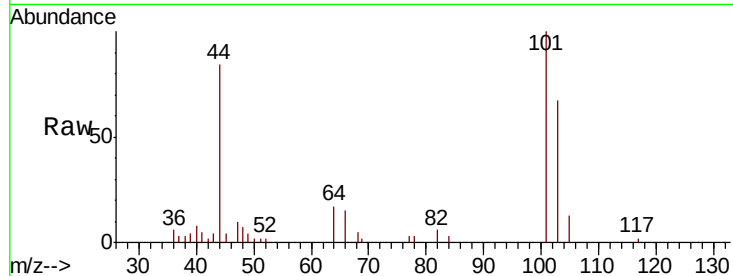


#7

Trichlorofluoromethane  
 Concen: 0.296 ug/l  
 RT: 1.88 min Scan# 247  
 Delta R.T. 0.00 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :

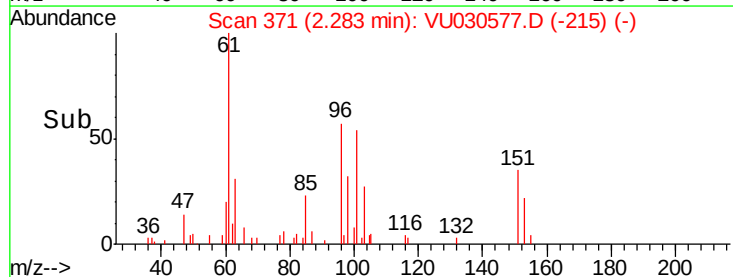
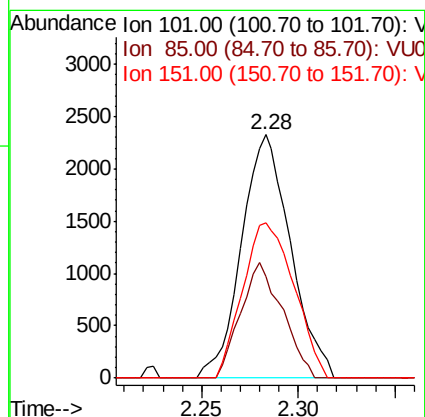
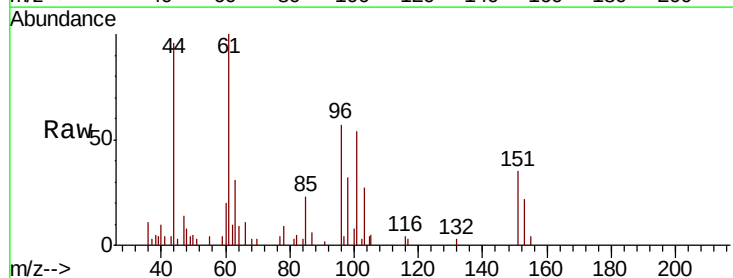
Tot Ion:101 Resp: 7120  
 Ion Ratio Lower Upper  
 101 100  
 103 66.9 52.6 79.0

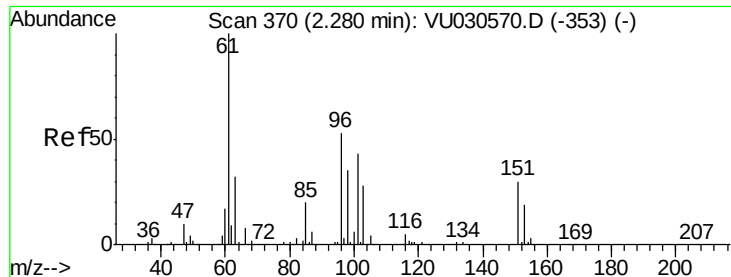


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.335 ug/l  
 RT: 2.28 min Scan# 371  
 Delta R.T. 0.00 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion:101 Resp: 4101  
 Ion Ratio Lower Upper  
 101 100  
 85 40.4 36.5 54.7  
 151 66.7 56.5 84.7





#9

1,1-Dichloroethene

Concen: 0.302 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :  
MSVOA\_U  
ClientSampleId :

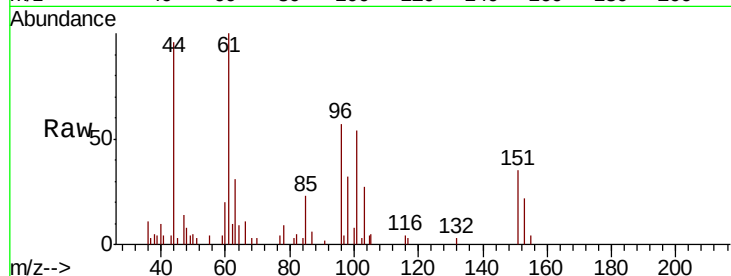
Tot Ion: 96 Resp: 3719

Ion Ratio Lower Upper

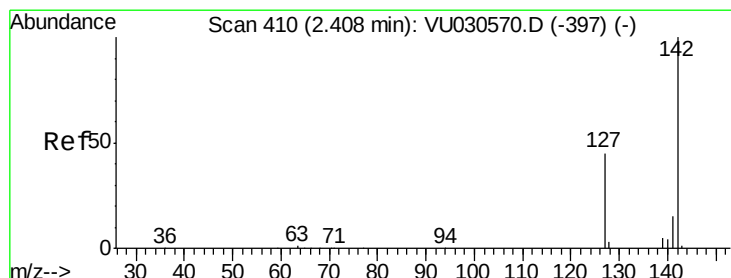
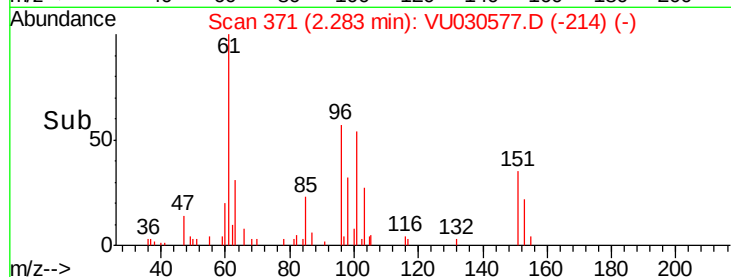
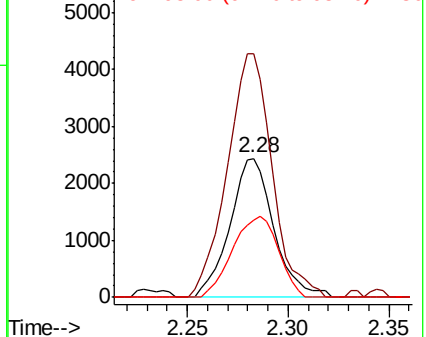
96 100

61 175.1 0.0 567.0

98 56.0 0.0 132.2



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0



#10

Iodomethane

Concen: 0.555 ug/l

RT: 2.40 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU030577.D

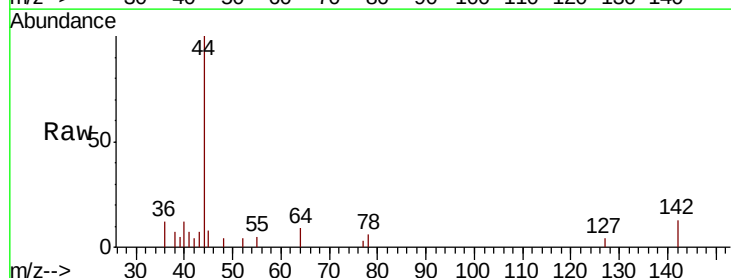
Acq: 30 Mar 2019 17:27

Tgt Ion: 142 Resp: 807

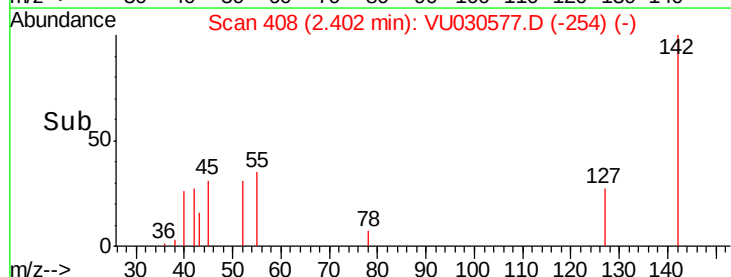
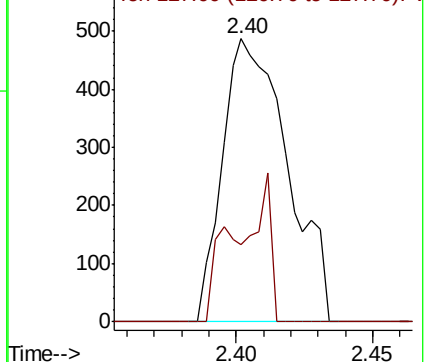
Ion Ratio Lower Upper

142 100

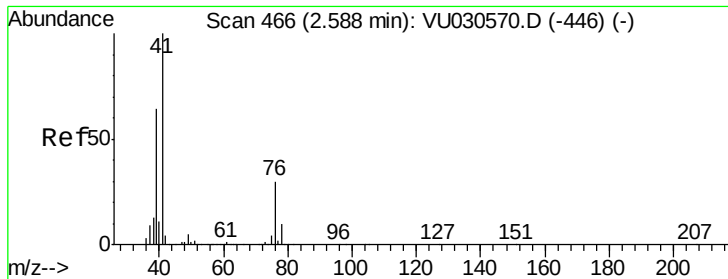
127 13.9 36.8 55.2#



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V



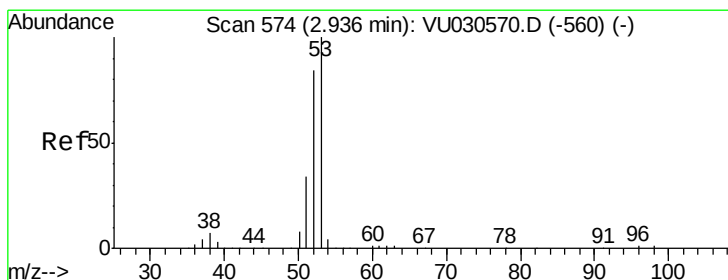
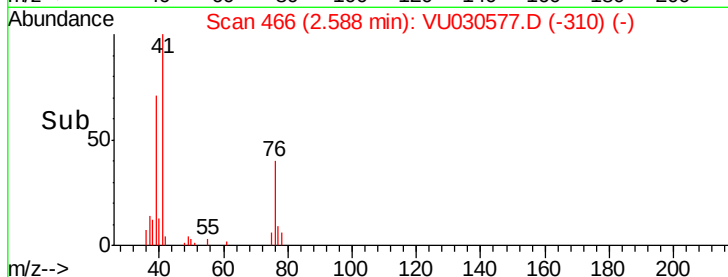
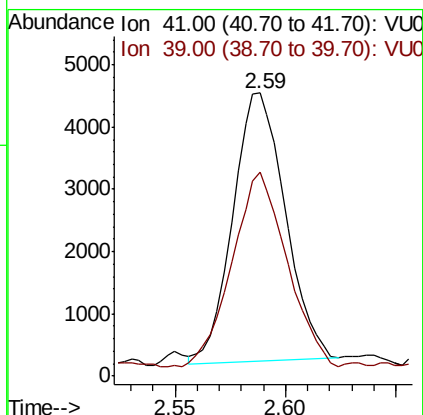
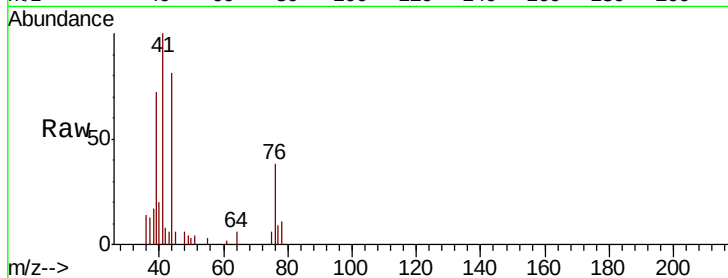




#11  
Allvl Chloride  
Concen: 0.267 ug/l  
RT: 2.59 min Scan# 466  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

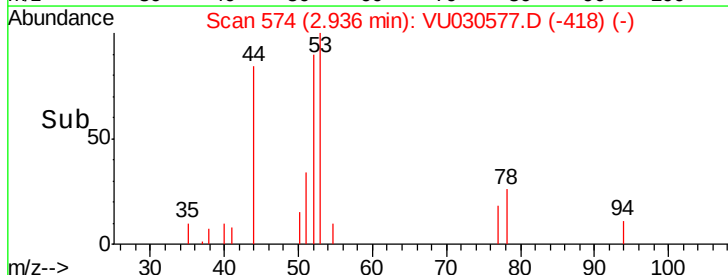
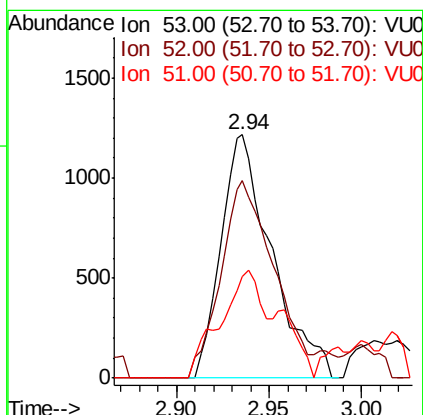
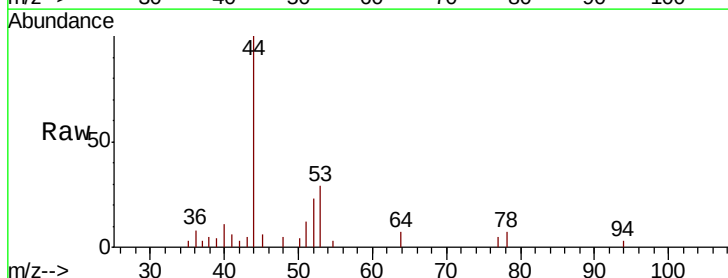
Instrument :  
MSVOA\_U  
ClientSampled :

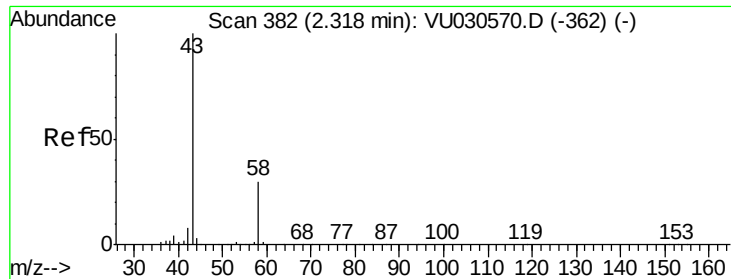
Tot Ion: 41 Resp: 7160  
Ion Ratio Lower Upper  
41 100  
39 75.5 51.8 77.6



#12  
Acrylonitrile  
Concen: 0.659 ug/l  
RT: 2.94 min Scan# 574  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 53 Resp: 2305  
Ion Ratio Lower Upper  
53 100  
52 85.4 69.1 103.7  
51 38.6 27.9 41.9





#13

Acetone

Concen: 1.816 ug/l

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

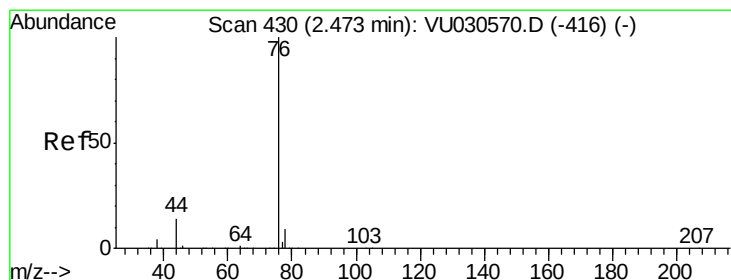
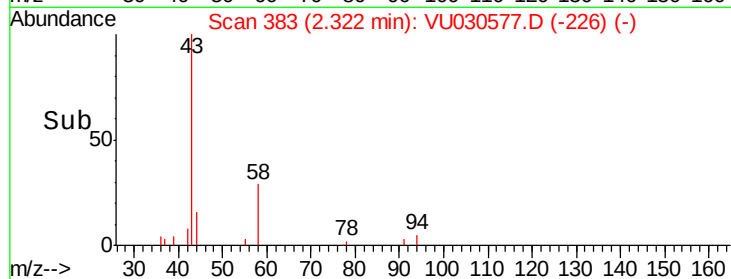
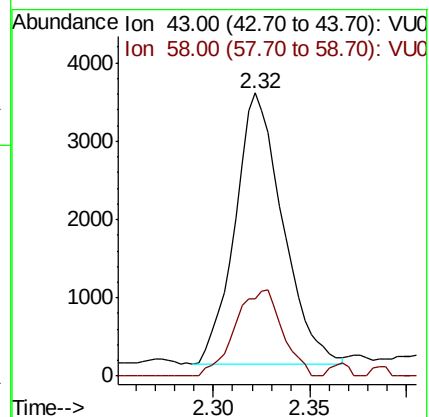
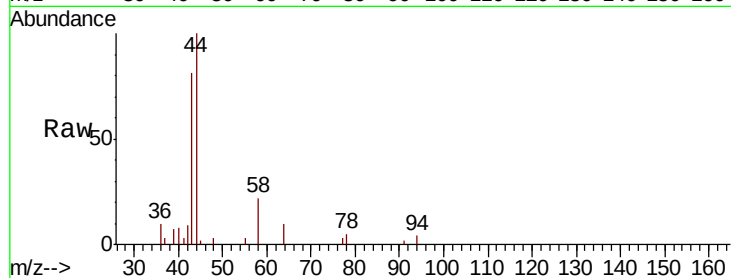
ClientSampleId :

Tot Ion: 43 Resp: 5947

Ion Ratio Lower Upper

43 100

58 28.5 24.2 36.4



#14

Carbon Disulfide

Concen: 0.317 ug/l

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030577.D

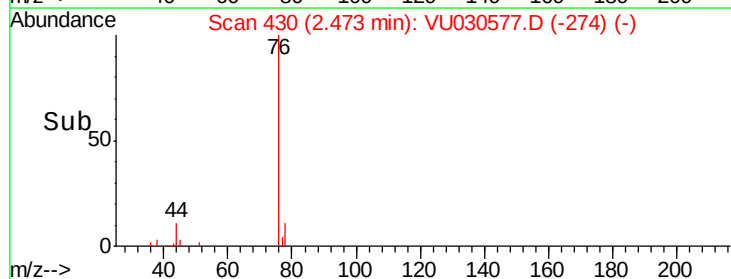
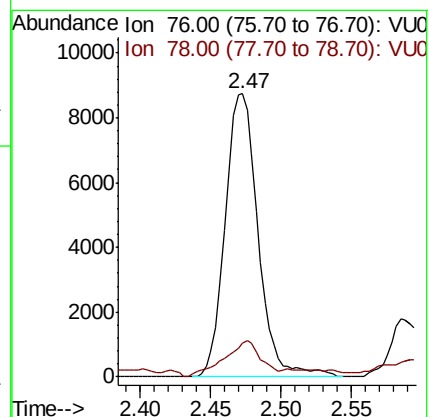
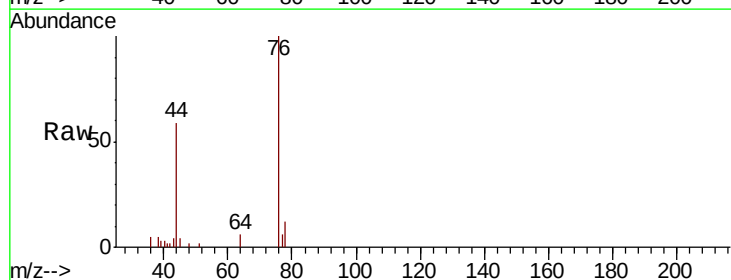
Acq: 30 Mar 2019 17:27

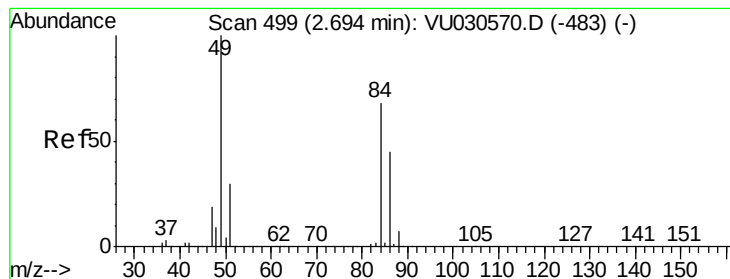
Tgt Ion: 76 Resp: 14246

Ion Ratio Lower Upper

76 100

78 10.7 7.3 10.9





#15

Methylene Chloride

Concen: 0.384 ug/l

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 84 Resp: 5994

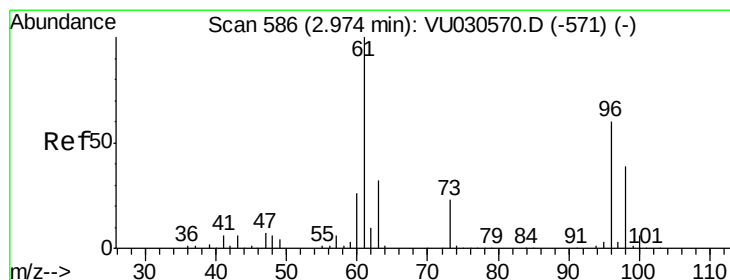
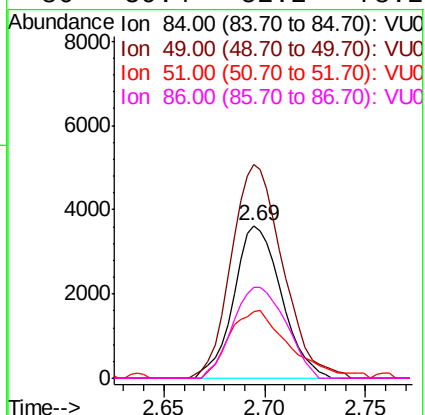
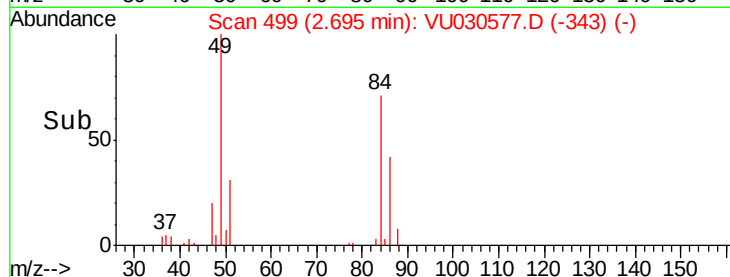
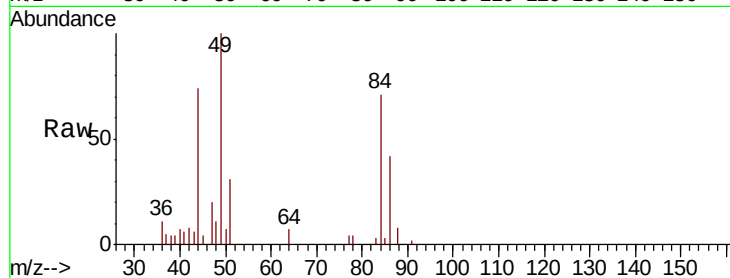
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 140.1 | 117.0 | 175.6 |
| 51  | 43.9  | 0.0   | 88.6  |
| 86  | 59.4  | 52.2  | 78.2  |

84 100

49 140.1 117.0 175.6

51 43.9 0.0 88.6

86 59.4 52.2 78.2



#16

trans-1,2-Dichloroethene

Concen: 0.303 ug/l

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

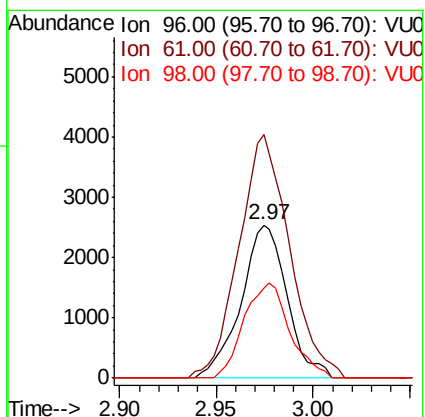
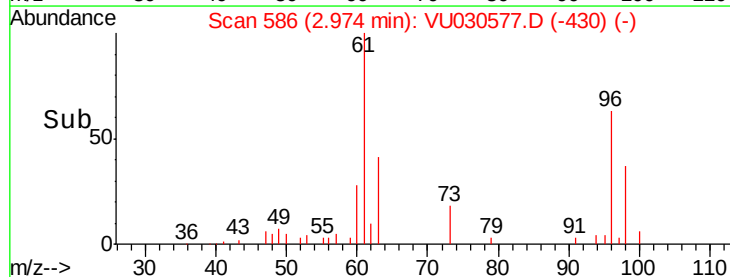
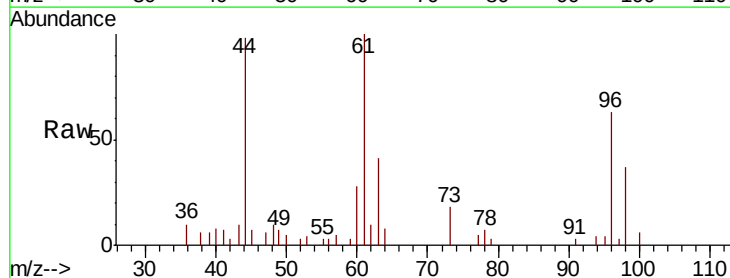
Tgt Ion: 96 Resp: 4213

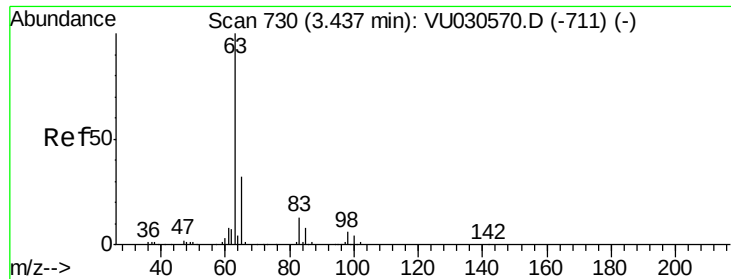
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 159.0 | 132.3 | 198.5 |
| 98  | 58.5  | 51.3  | 76.9  |

96 100

61 159.0 132.3 198.5

98 58.5 51.3 76.9

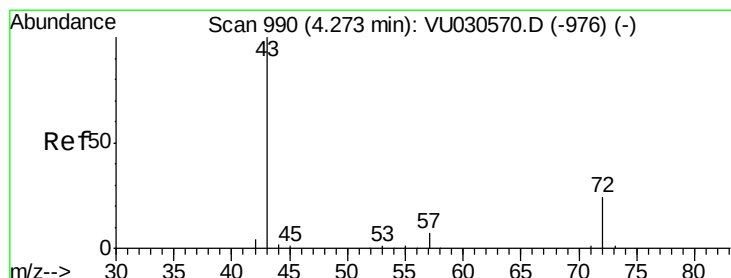
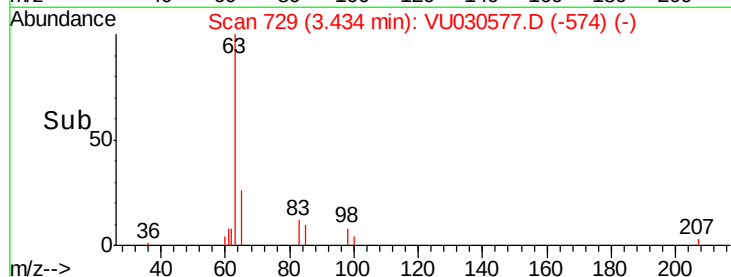
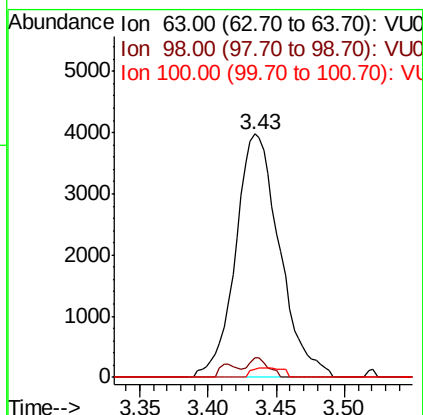
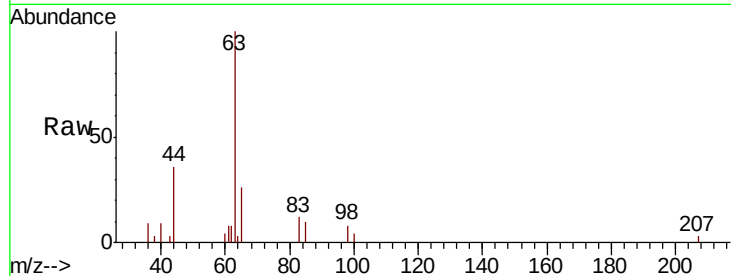




#17  
 1,1-Dichloroethane  
 Concen: 0.315 ug/l  
 RT: 3.43 min Scan# 729  
 Delta R.T. -0.00 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

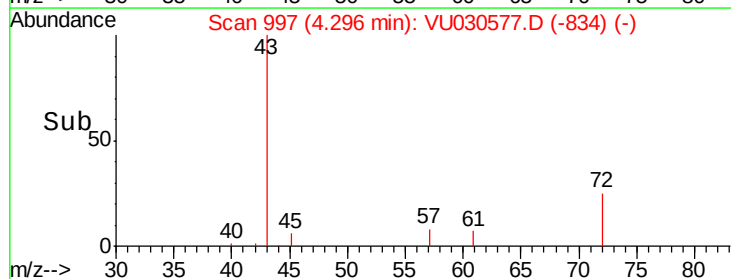
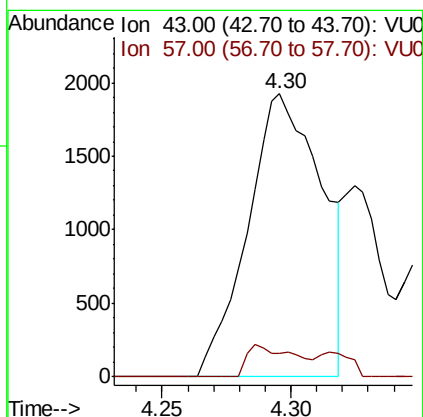
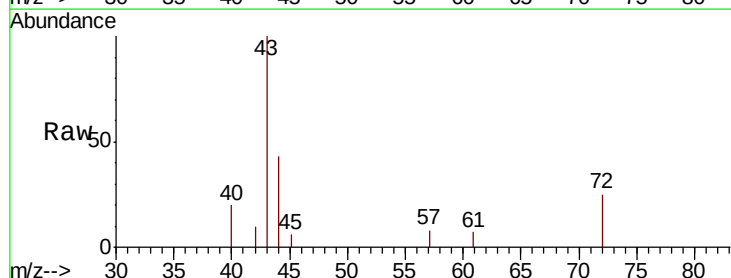
Instrument :  
 MSVOA\_U  
 ClientSampleId :

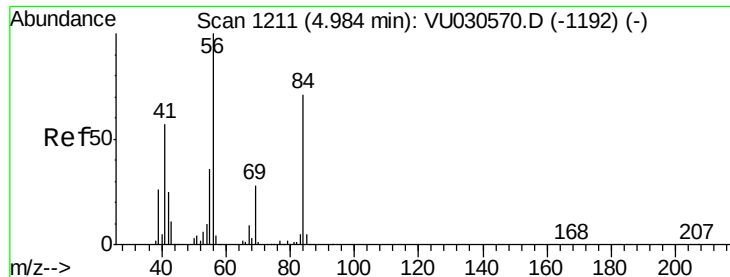
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 8905  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 7.8   | 3.0   | 9.0   |
| 100      | 3.6   | 1.8   | 5.5   |



#18  
 2-Butanone  
 Concen: 0.910 ug/l  
 RT: 4.30 min Scan# 997  
 Delta R.T. 0.02 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3855  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 57       | 8.4   | 0.0   | 14.4  |

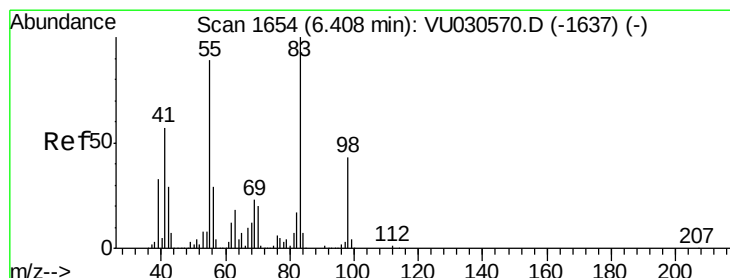
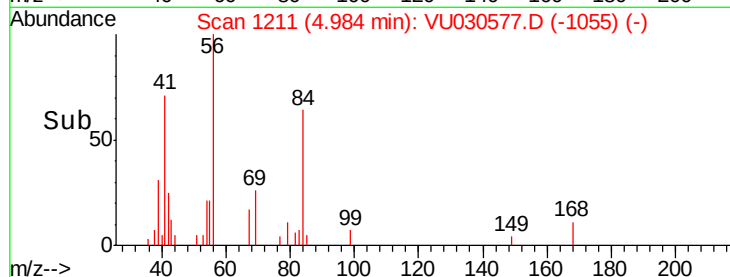
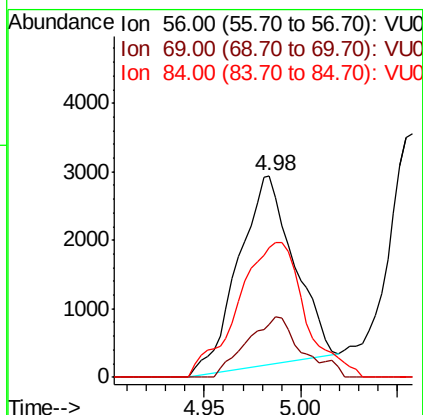
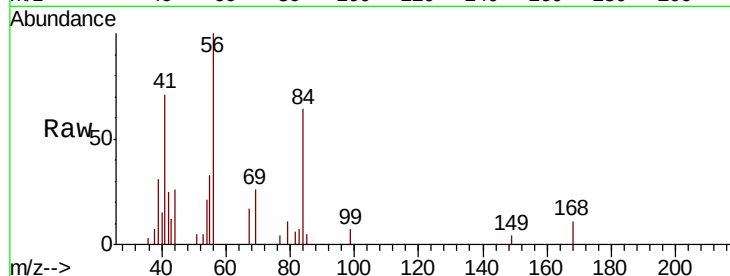




#19  
Cyclohexane  
Concen: 0.233 ug/l  
RT: 4.98 min Scan# 1211  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

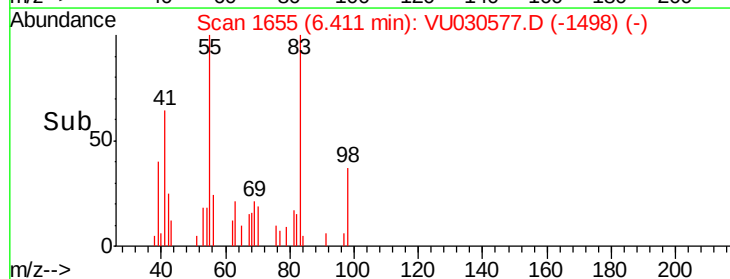
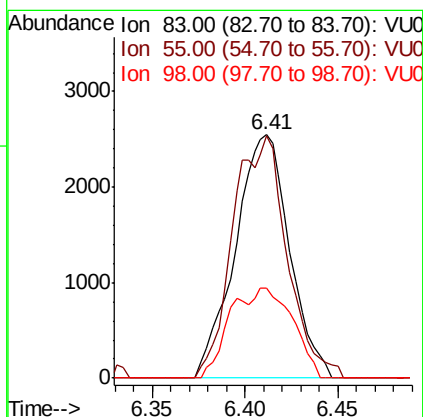
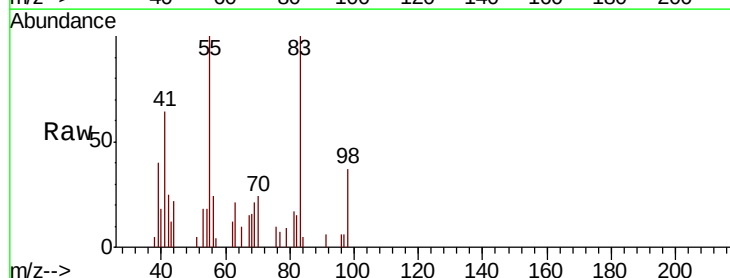
Instrument :  
MSVOA\_U  
ClientSampleId :

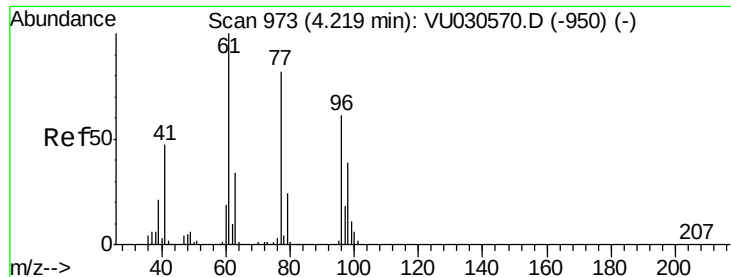
Tot Ion: 56 Resp: 5542  
Ion Ratio Lower Upper  
56 100  
69 31.5 22.3 33.5  
84 85.0 57.6 86.4



#20  
Methylcyclohexane  
Concen: 0.249 ug/l  
RT: 6.41 min Scan# 1655  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 83 Resp: 5198  
Ion Ratio Lower Upper  
83 100  
55 99.3 72.0 108.0  
98 42.5 35.0 52.4





#21

2,2-Dichloropropane

Concen: 0.260 ug/l

RT: 4.22 min Scan# 972

Delta R.T. -0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

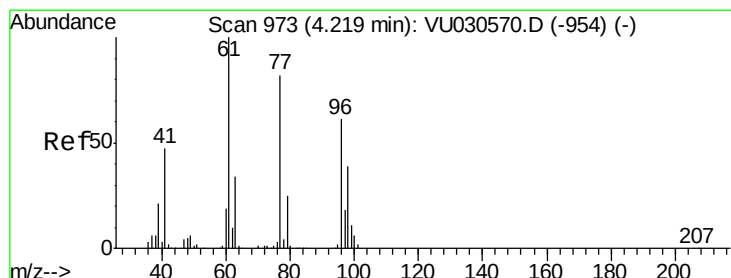
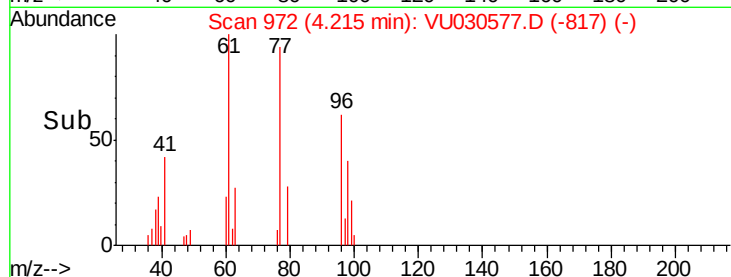
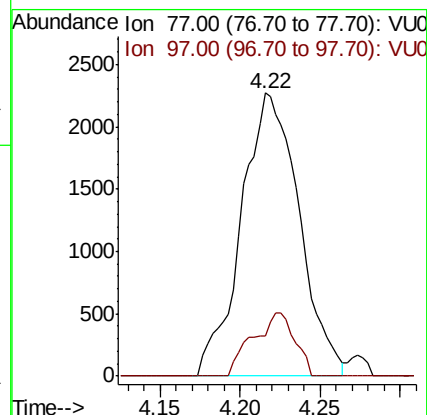
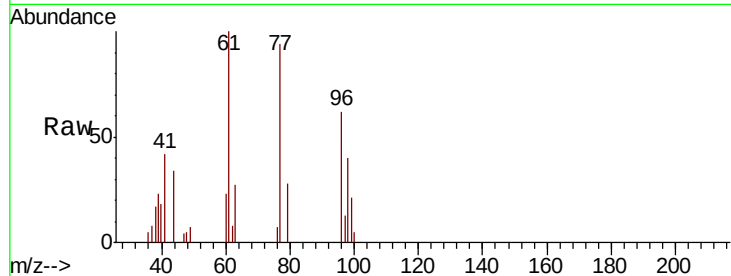
ClientSampled :

Tot Ion: 77 Resp: 5635

Ion Ratio Lower Upper

77 100

97 16.2 17.6 26.4#



#22

cis-1,2-Dichloroethene

Concen: 0.274 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

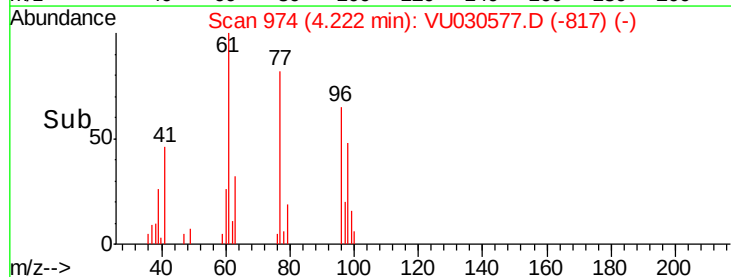
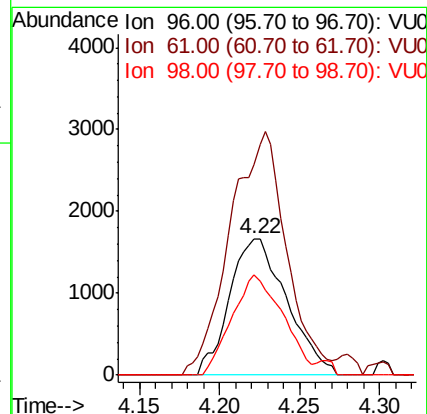
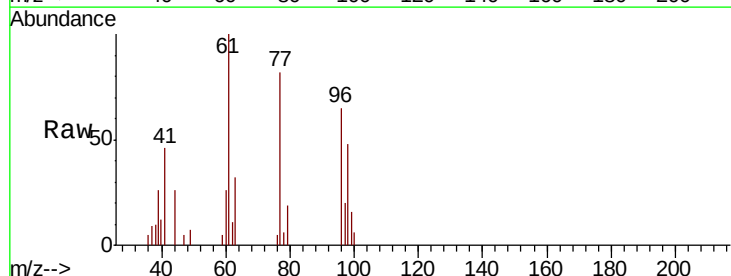
Tgt Ion: 96 Resp: 4086

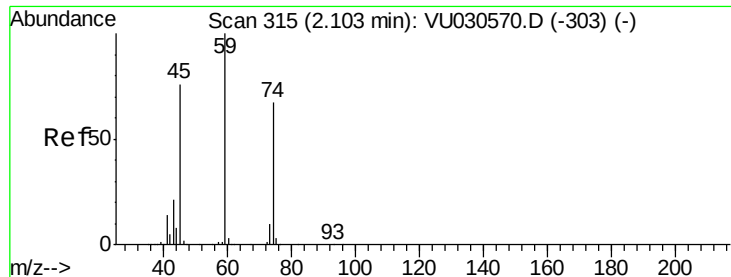
Ion Ratio Lower Upper

96 100

61 176.6 0.0 427.0

98 65.2 32.5 97.4

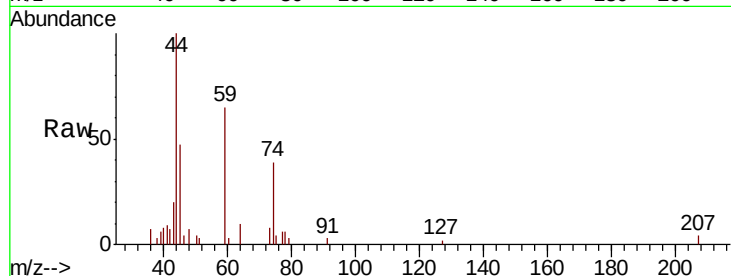




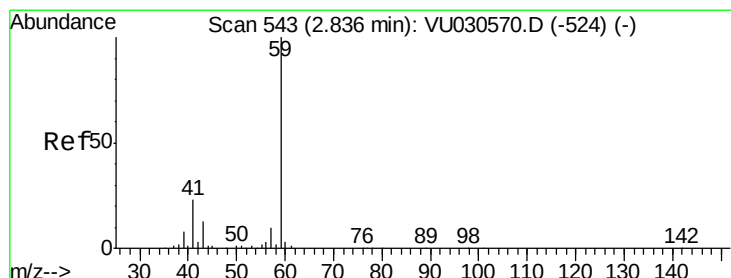
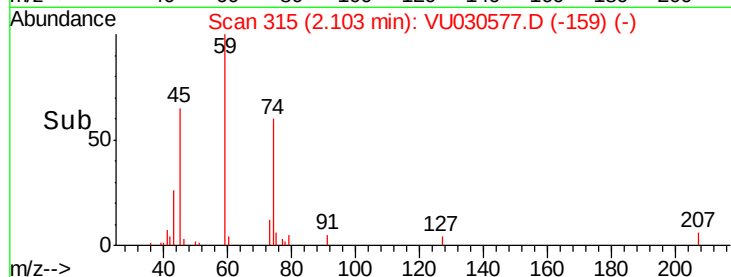
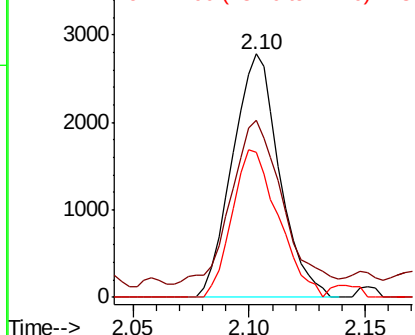
#23  
Diethyl Ether  
Concen: 0.335 ug/l  
RT: 2.10 min Scan# 315  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 59 Resp: 3915  
Ion Ratio Lower Upper  
59 100  
45 71.7 61.6 92.4  
74 59.5 53.2 79.8

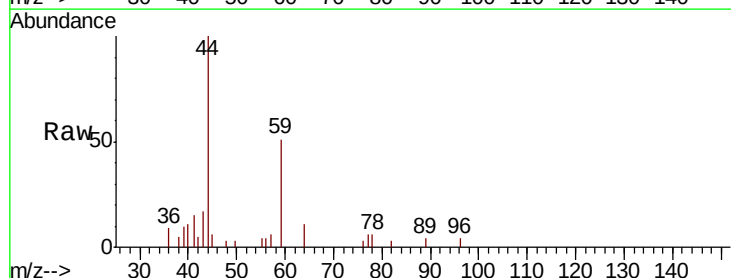


Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 45.00 (44.70 to 45.70): VU0  
Ion 74.00 (73.70 to 74.70): VU0

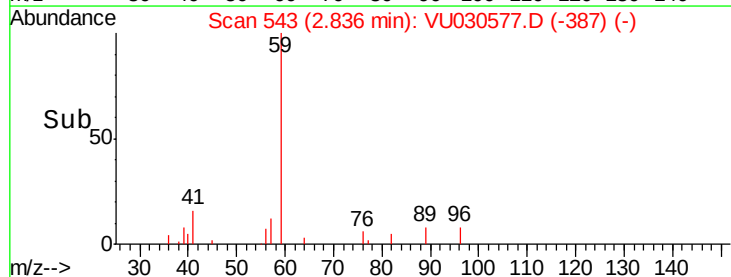
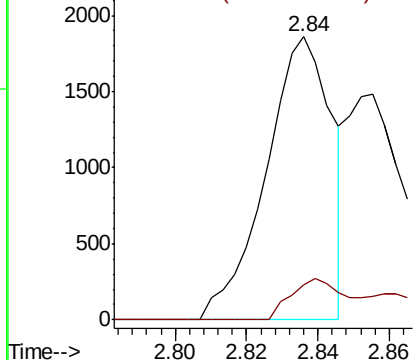


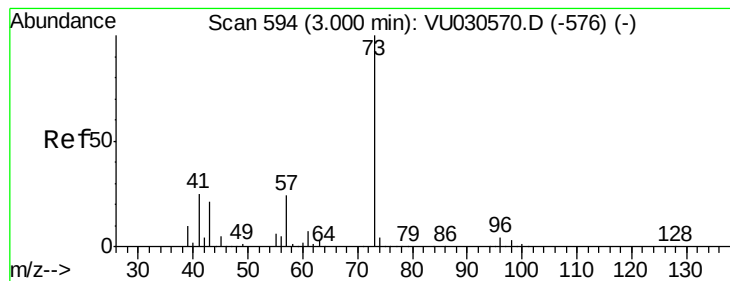
#24  
tert-Butyl Alcohol  
Concen: 1.965 ug/l  
RT: 2.84 min Scan# 543  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 59 Resp: 2380  
Ion Ratio Lower Upper  
59 100  
57 12.1 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0



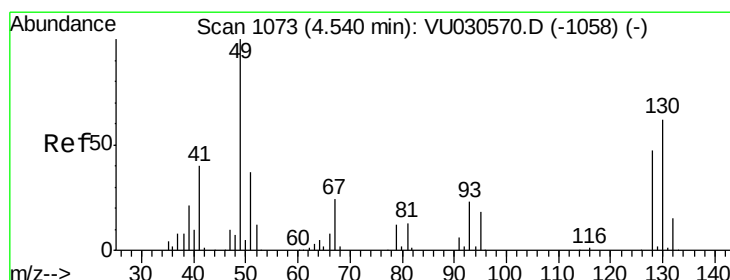
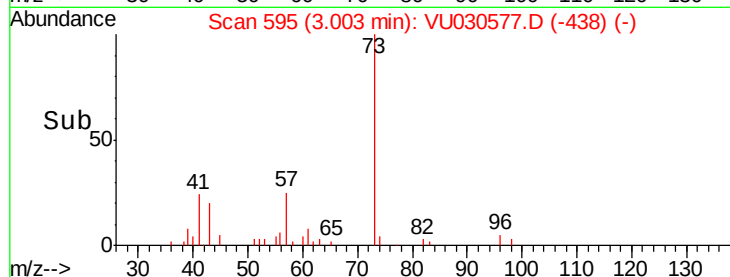
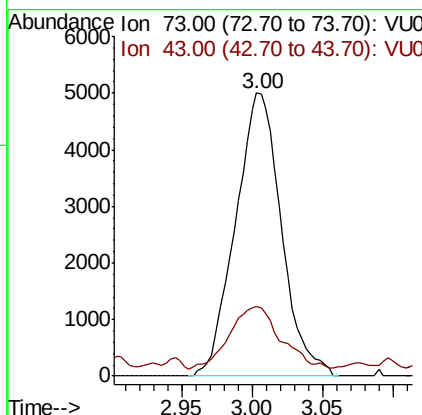
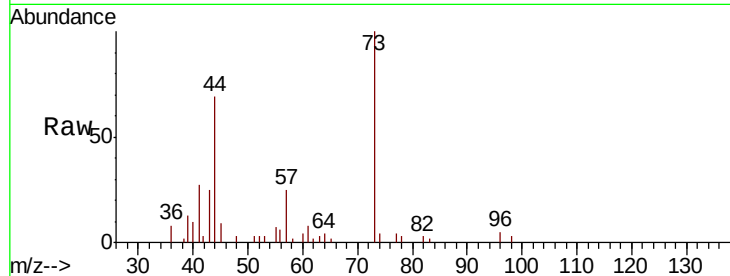


#25

Methyl tert-Butyl Ether  
 Concen: 0.320 ug/l  
 RT: 3.00 min Scan# 595  
 Delta R.T. 0.00 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampled :

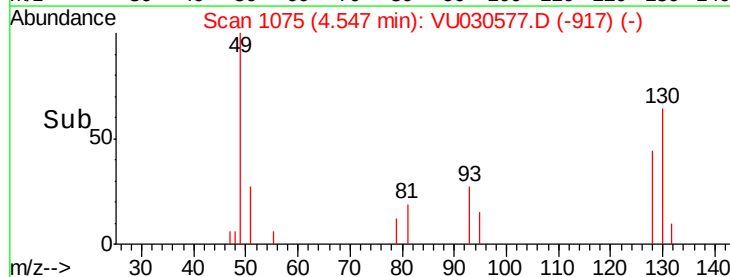
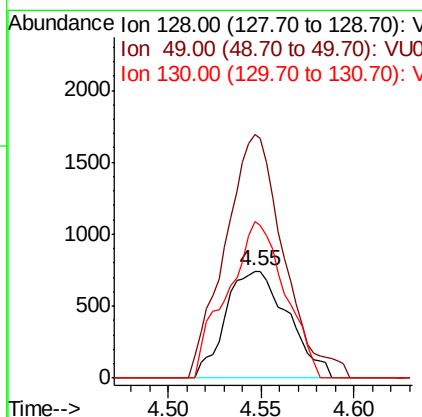
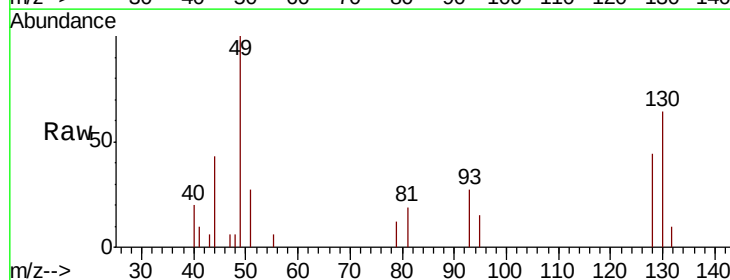
Tot Ion: 73 Resp: 11386  
 Ion Ratio Lower Upper  
 73 100  
 43 24.5 16.6 24.8



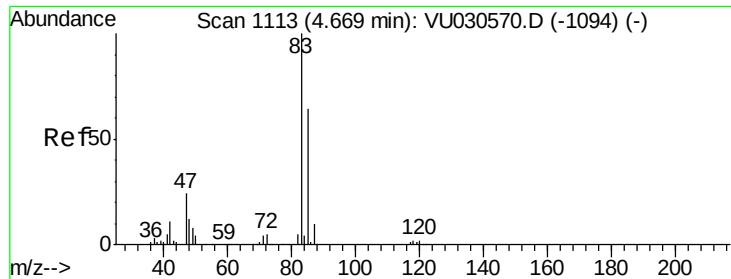
#26

Bromochloromethane  
 Concen: 0.298 ug/l  
 RT: 4.55 min Scan# 1075  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion: 128 Resp: 1744  
 Ion Ratio Lower Upper  
 128 100  
 49 213.0 0.0 418.2  
 130 135.1 103.4 155.0



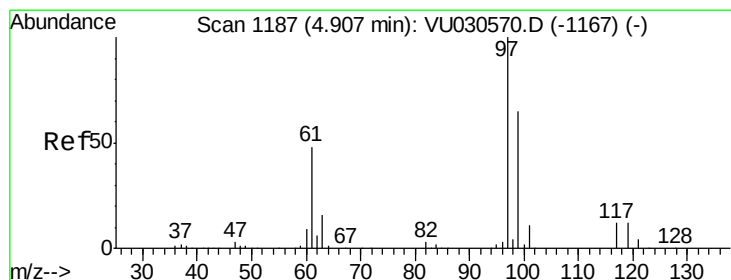
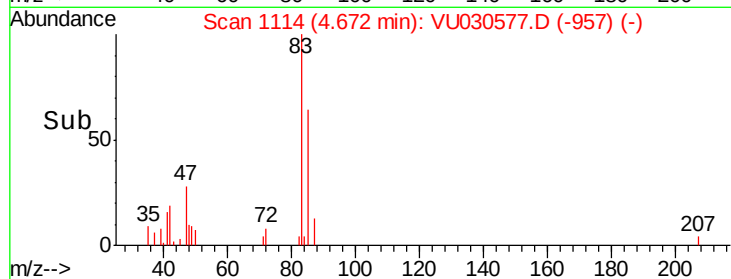
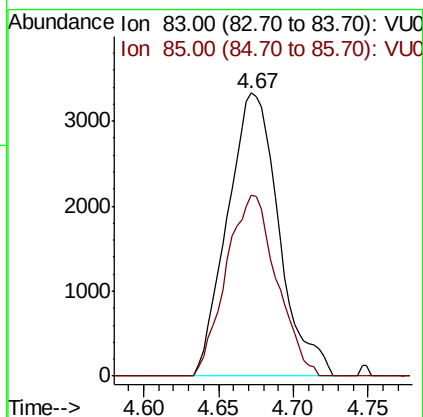
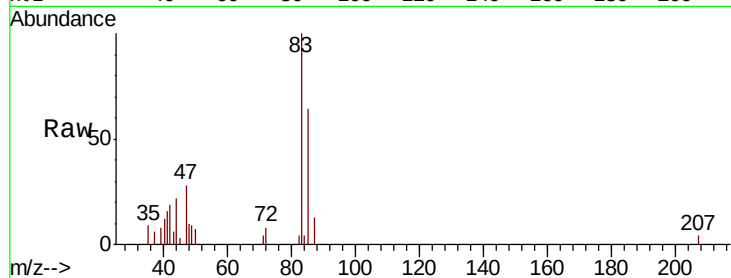




#27  
Chloroform  
Concen: 0.302 ug/l  
RT: 4.67 min Scan# 1114  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

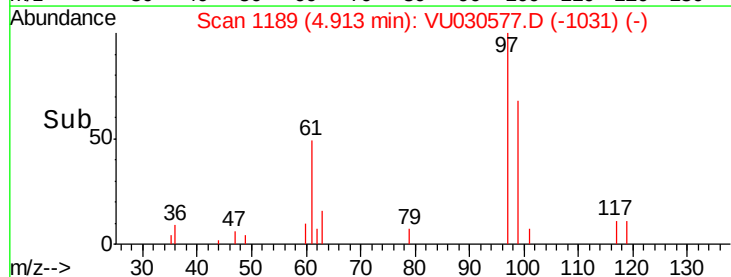
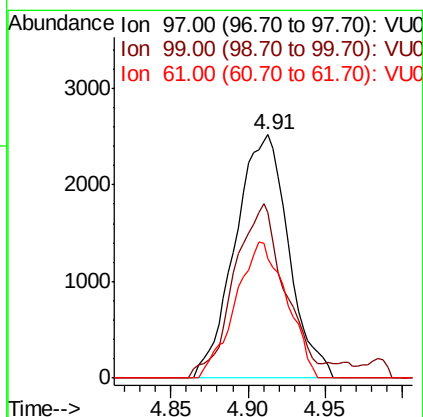
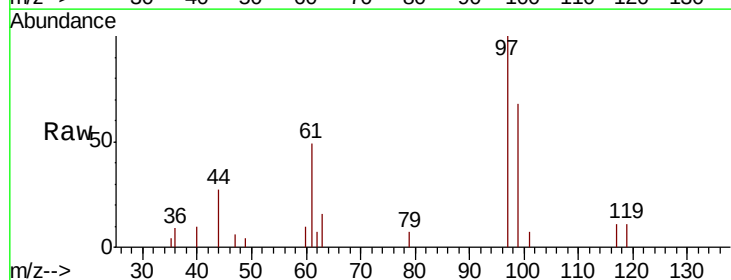
Instrument :  
MSVOA\_U  
ClientSampleId :

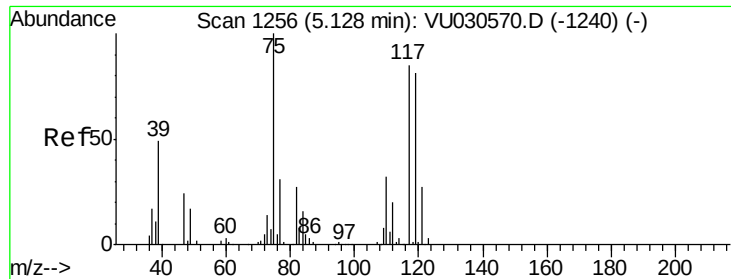
Tot Ion: 83 Resp: 7974  
Ion Ratio Lower Upper  
83 100  
85 64.1 0.0 128.4



#28  
1,1,1-Trichloroethane  
Concen: 0.278 ug/l  
RT: 4.91 min Scan# 1189  
Delta R.T. 0.01 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 97 Resp: 6045  
Ion Ratio Lower Upper  
97 100  
99 68.3 32.0 96.0  
61 53.5 24.0 72.0

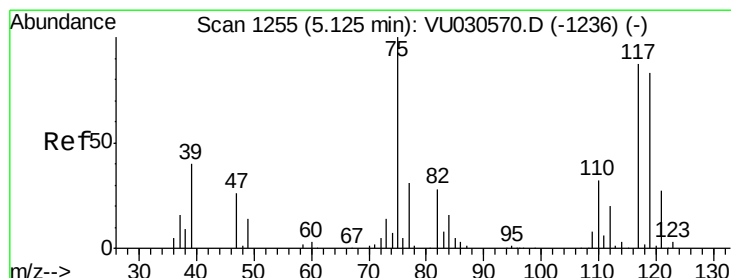
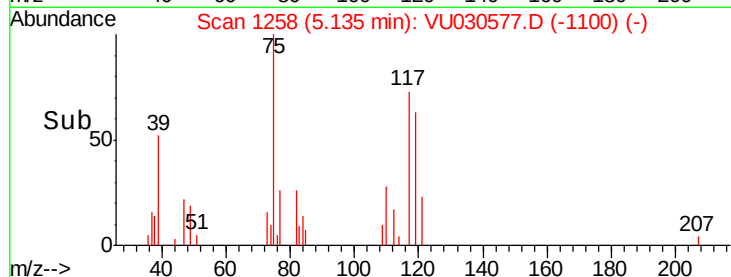
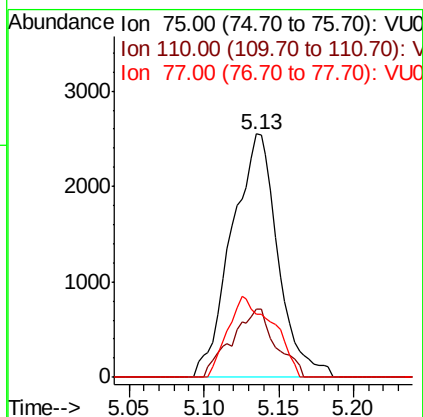
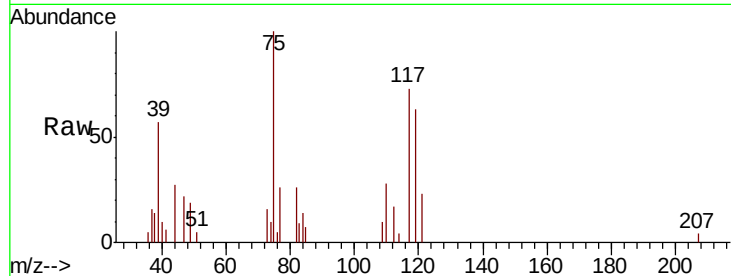




#29  
 1,1-Dichloropropene  
 Concen: 0.281 ug/l  
 RT: 5.13 min Scan# 1258  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

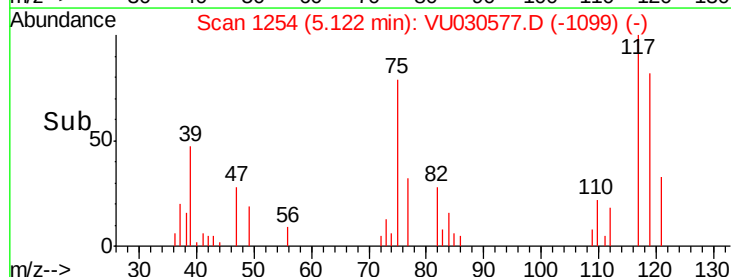
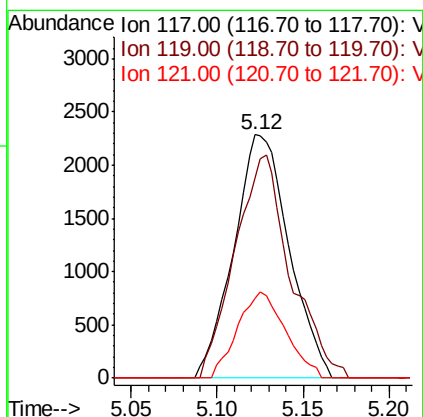
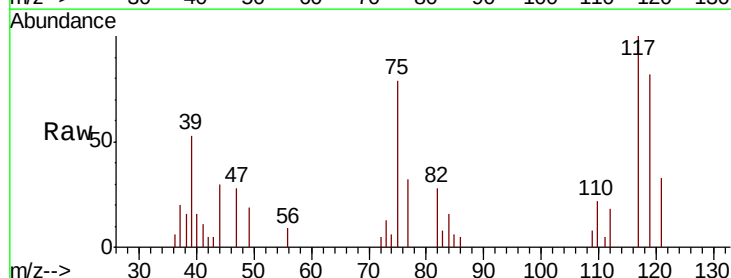
Instrument :  
 MSVOA\_U  
 ClientSampled :

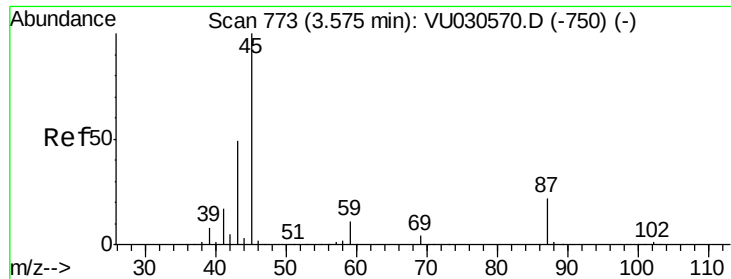
Tot Ion: 75 Resp: 5490  
 Ion Ratio Lower Upper  
 75 100  
 110 26.7 16.0 48.0  
 77 32.5 24.8 37.2



#30  
 Carbon Tetrachloride  
 Concen: 0.281 ug/l  
 RT: 5.12 min Scan# 1254  
 Delta R.T. -0.00 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion: 117 Resp: 5114  
 Ion Ratio Lower Upper  
 117 100  
 119 82.3 76.4 114.6  
 121 32.9 24.7 37.1





#31

Isopropyl Ether

Concen: 0.280 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

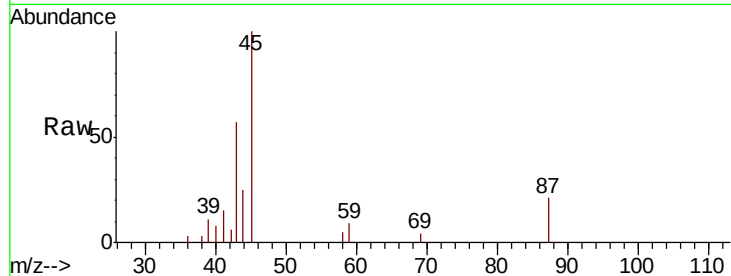
ClientSampleId :

Tot Ion: 45 Resp: 13177

Ion Ratio Lower Upper

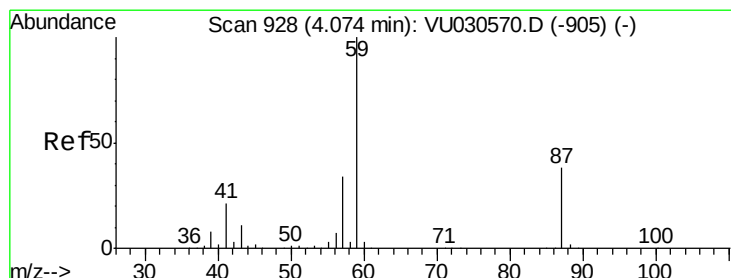
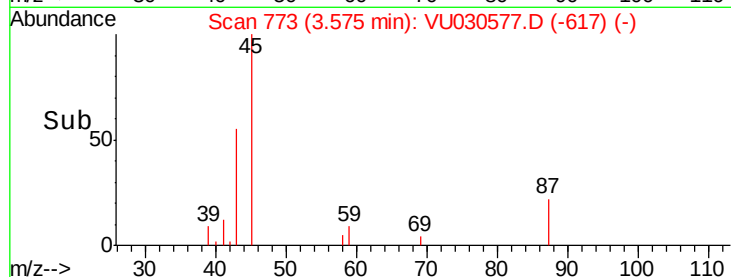
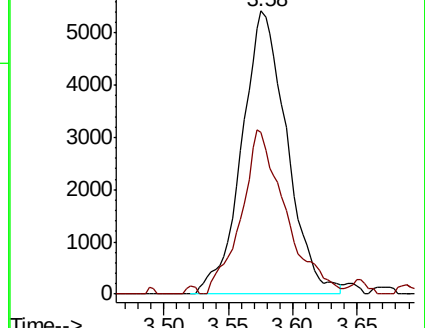
45 100

43 57.2 25.0 75.0



Abundance Ion 45.00 (44.70 to 45.70): VU030577.D (-617) (-)

Ion 43.00 (42.70 to 43.70): VU030577.D (-617) (-)



#32

Ethyl-t-butyl ether

Concen: 0.294 ug/l

RT: 4.08 min Scan# 929

Delta R.T. 0.00 min

Lab File: VU030577.D

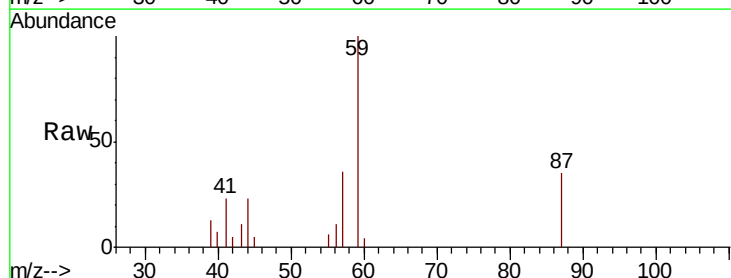
Acq: 30 Mar 2019 17:27

Tgt Ion: 59 Resp: 11012

Ion Ratio Lower Upper

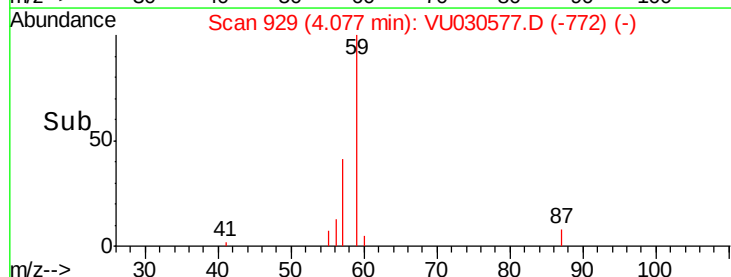
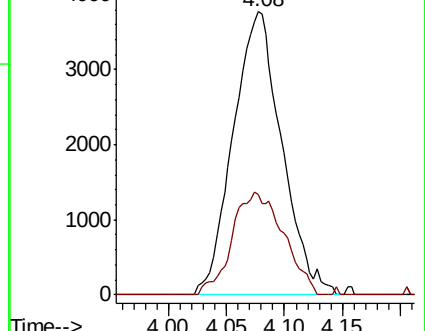
59 100

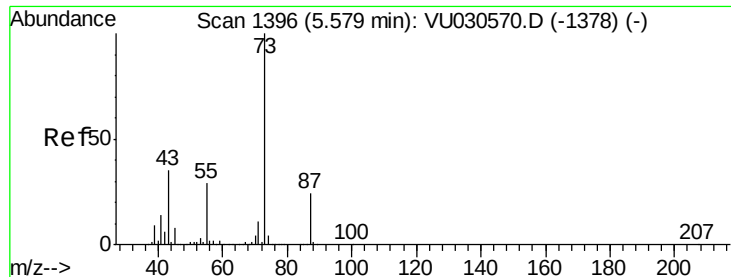
87 38.3 30.1 45.1



Abundance Ion 59.00 (58.70 to 59.70): VU030577.D (-772) (-)

Ion 87.00 (86.70 to 87.70): VU030577.D (-772) (-)

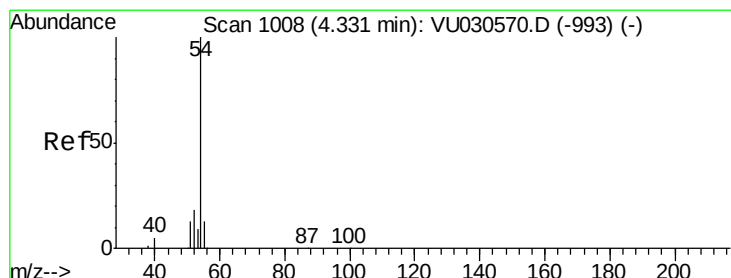
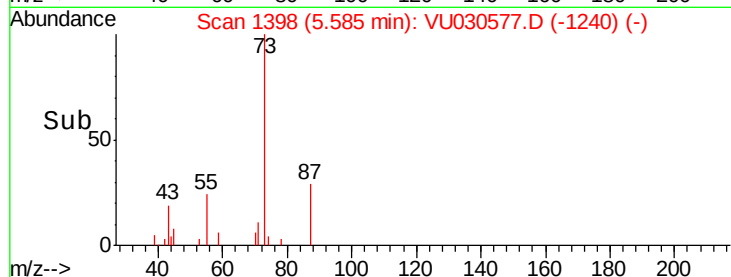
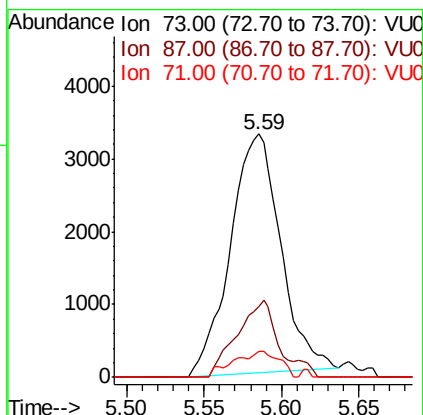
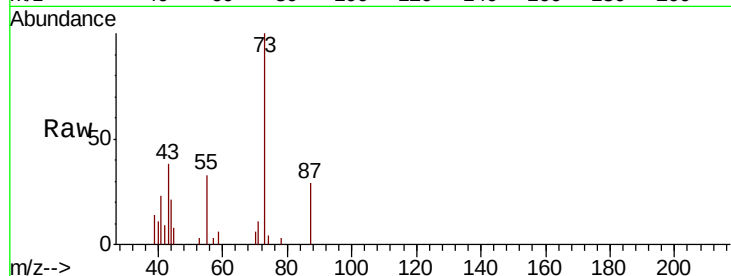




#33  
Tert-Butyl methyl ether  
Concen: 0.248 ug/l  
RT: 5.59 min Scan# 1398  
Delta R.T. 0.01 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

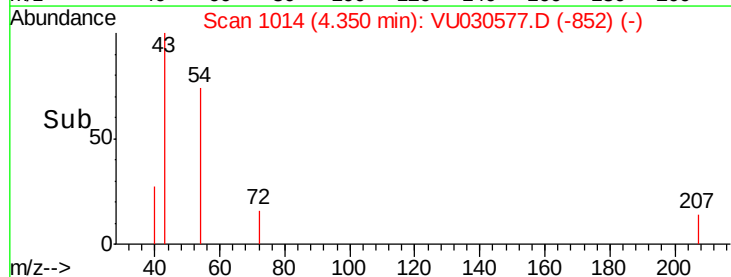
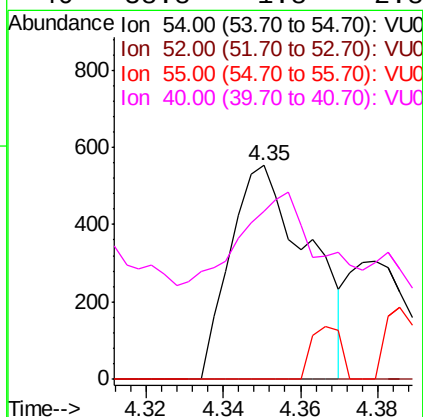
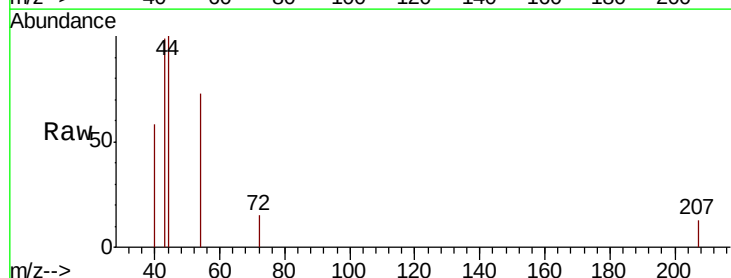
Instrument :  
MSVOA\_U  
ClientSampleId :

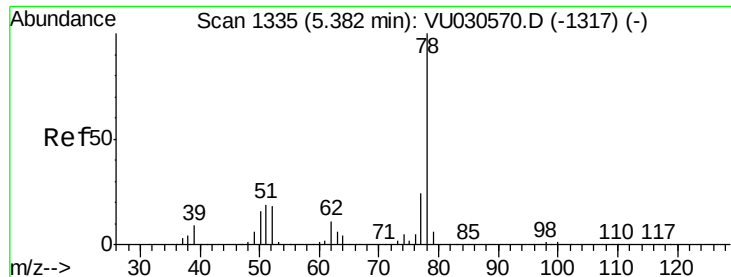
Tot Ion: 73 Resp: 7433  
Ion Ratio Lower Upper  
73 100  
87 27.1 18.6 27.8  
71 9.9 9.0 13.4



#34  
Propionitrile  
Concen: 0.676 ug/l  
RT: 4.35 min Scan# 1014  
Delta R.T. 0.02 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 54 Resp: 778  
Ion Ratio Lower Upper  
54 100  
52 0.0 14.1 21.1#  
55 9.3 10.4 15.6#  
40 38.8 1.8 2.8#





#35

Benzene

Concen: 0.266 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

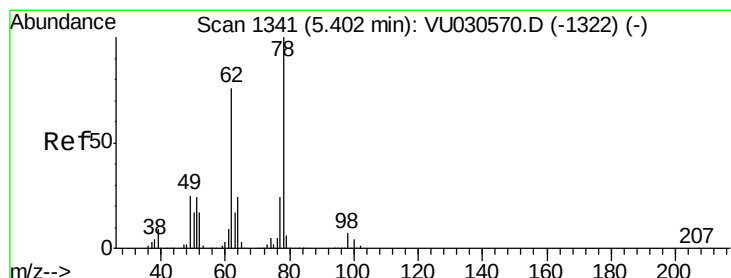
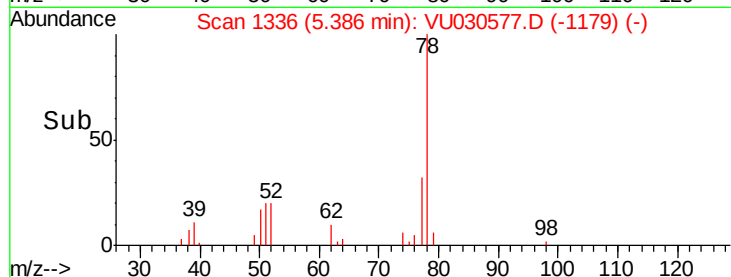
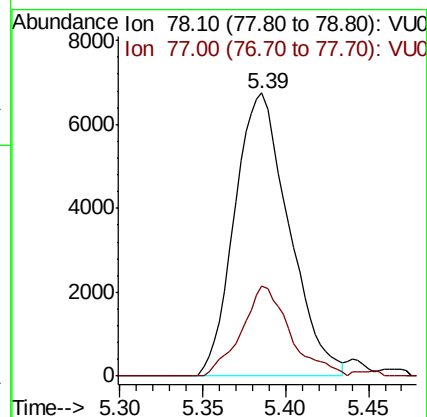
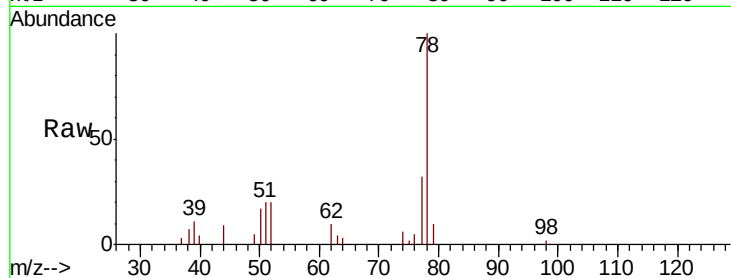
ClientSampleId :

Tot Ion: 78 Resp: 15353

Ion Ratio Lower Upper

78 100

77 32.0 19.5 29.3#



#36

1,2-Dichloroethane

Concen: 0.279 ug/l

RT: 5.41 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VU030577.D

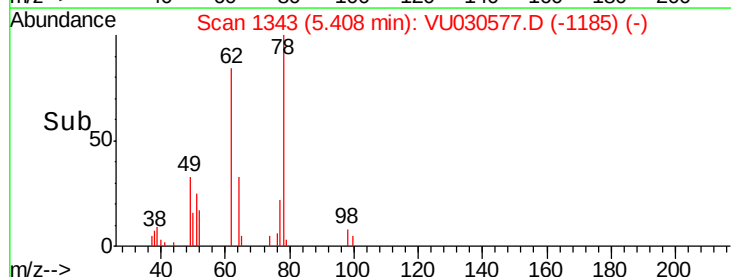
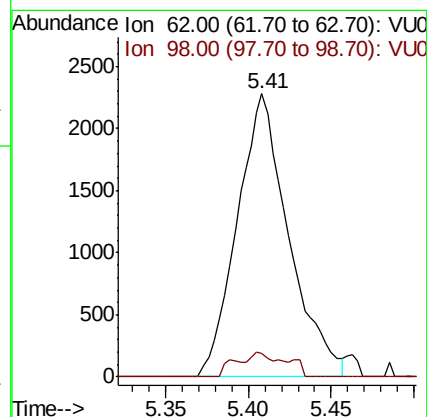
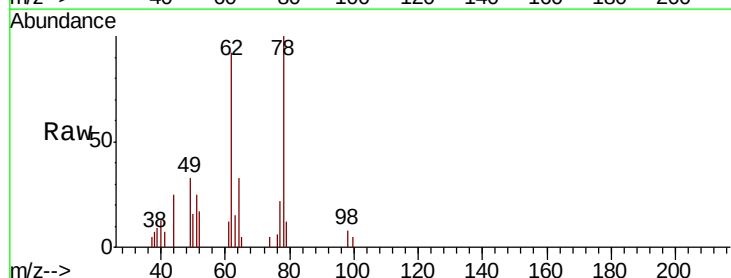
Acq: 30 Mar 2019 17:27

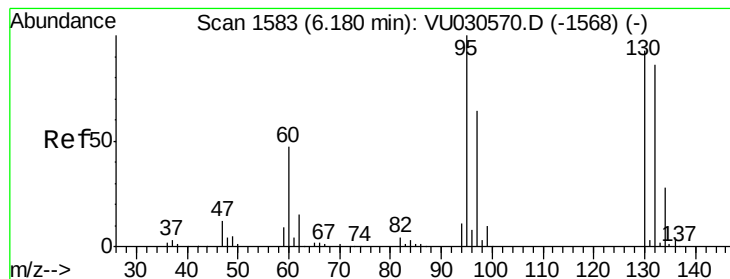
Tgt Ion: 62 Resp: 4916

Ion Ratio Lower Upper

62 100

98 6.3 6.8 10.2#





#37

Trichloroethene

Concen: 0.273 ug/l

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

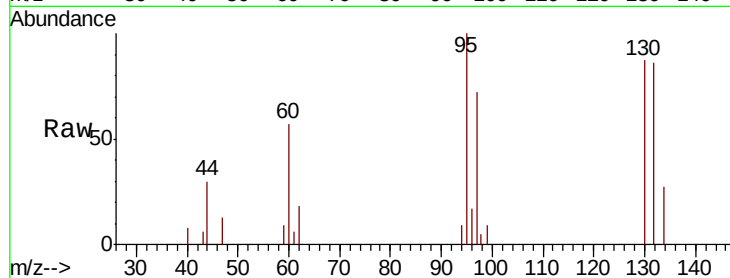
ClientSampleId :

Tot Ion:130 Resp: 3777

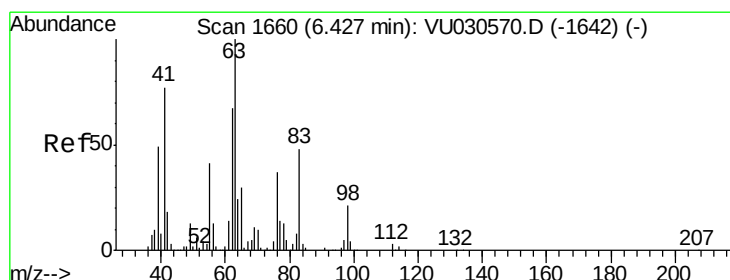
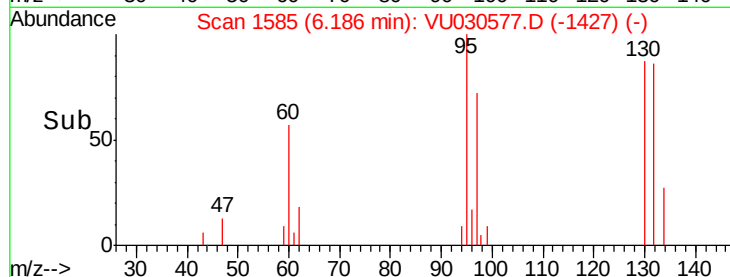
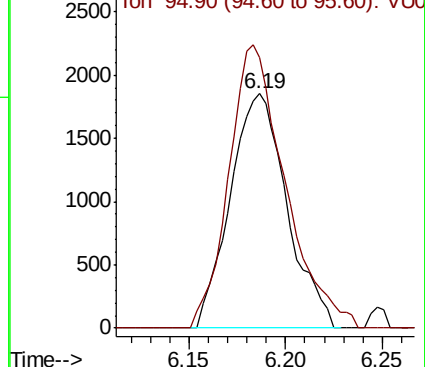
Ion Ratio Lower Upper

130 100

95 115.5 85.8 128.8



Abundance Ion 129.90 (129.60 to 130.60): VU030577.D (-1568) (-)



#38

1,2-Dichloropropane

Concen: 0.300 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030577.D

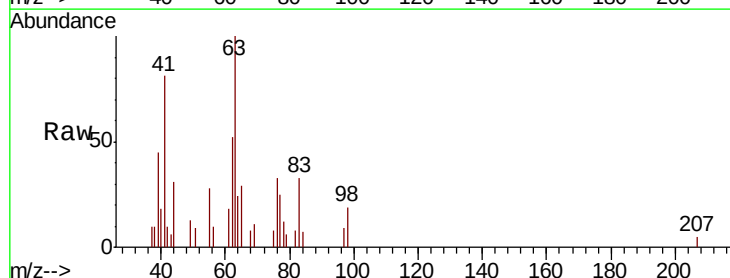
Acq: 30 Mar 2019 17:27

Tgt Ion: 63 Resp: 4797

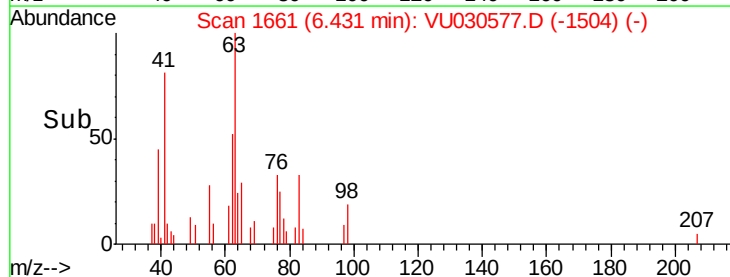
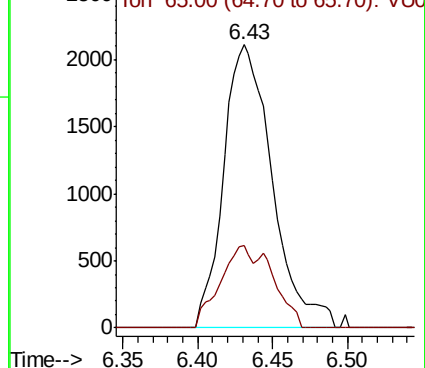
Ion Ratio Lower Upper

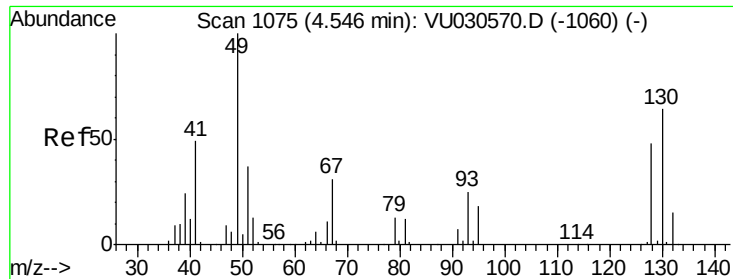
63 100

65 29.3 23.9 35.9



Abundance Ion 63.00 (62.70 to 63.70): VU030577.D (-1504) (-)

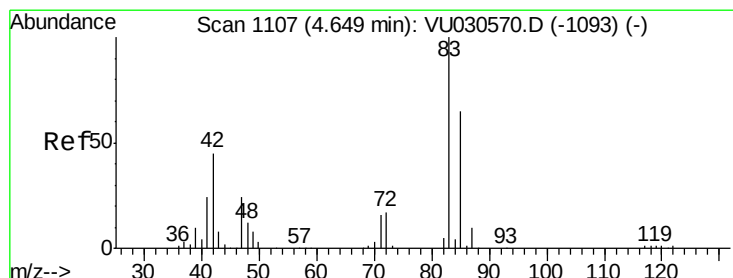
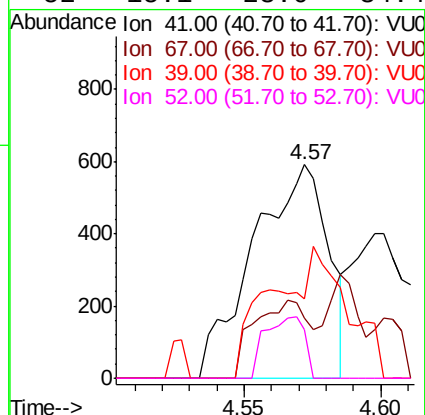
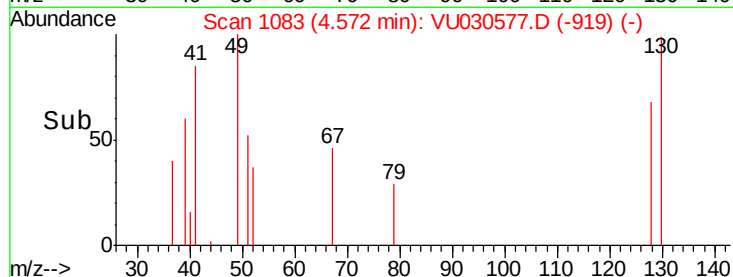
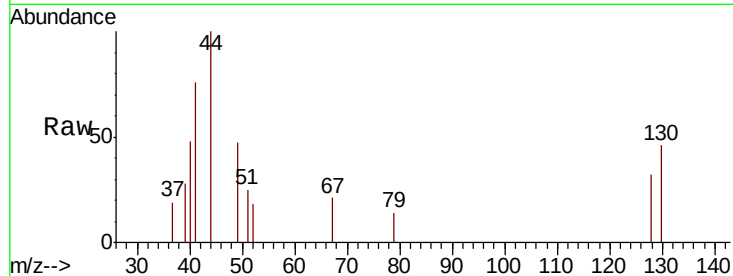




#39  
Methacrylonitrile  
Concen: 0.217 ug/l  
RT: 4.57 min Scan# 1083  
Delta R.T. 0.03 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

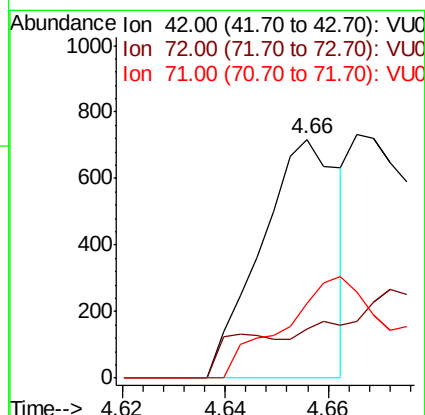
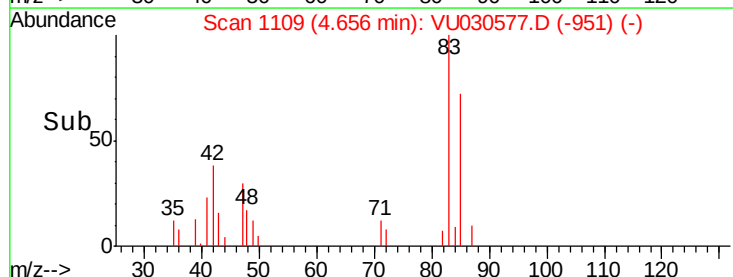
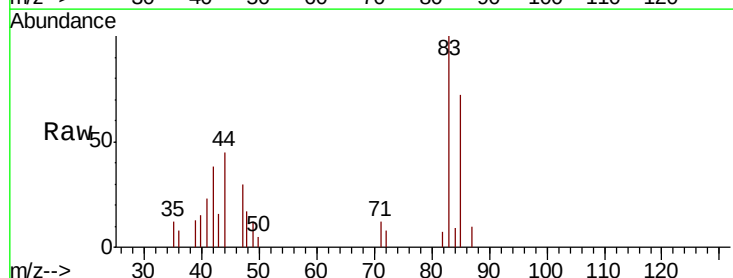
Instrument :  
MSVOA\_U  
ClientSampled :

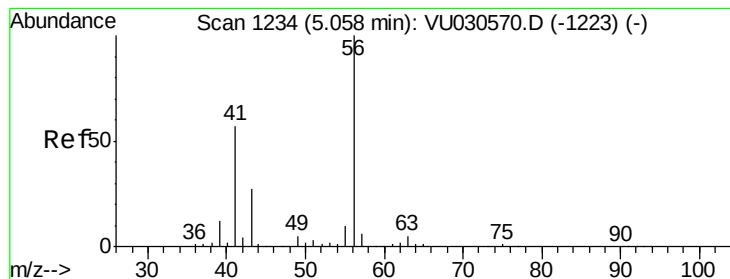
Tot Ion: 41 Resp: 1128  
Ion Ratio Lower Upper  
41 100  
67 26.3 50.2 75.4#  
39 31.0 40.7 61.1#  
52 15.1 23.0 34.4#



#41  
Tetrahydrofuran  
Concen: 0.256 ug/l  
RT: 4.66 min Scan# 1109  
Delta R.T. 0.01 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 42 Resp: 754  
Ion Ratio Lower Upper  
42 100  
72 47.3 33.4 50.0  
71 48.9 28.8 43.2#





#42

1-Chlorobutane

Concen: 0.261 ug/l

RT: 5.06 min Scan# 1234

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

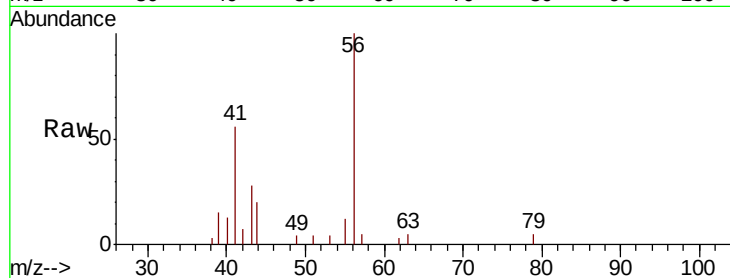
ClientSampleId :

Tot Ion: 56 Resp: 7616

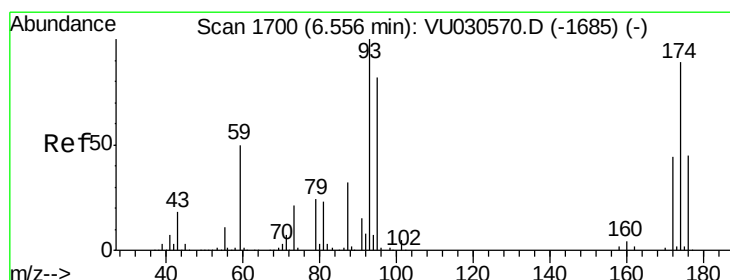
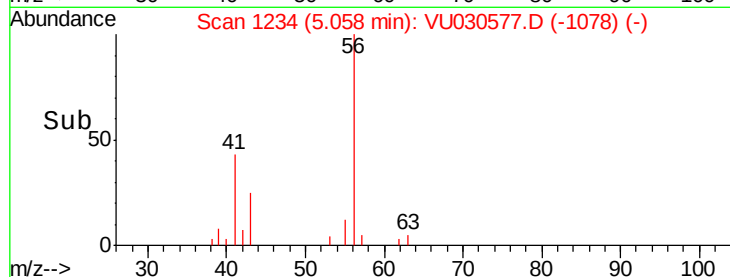
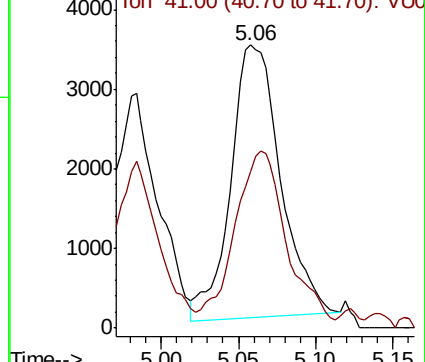
Ion Ratio Lower Upper

56 100

41 69.9 28.5 85.6



Abundance Ion 56.00 (55.70 to 56.70): VU030577.D (-1078) (-)



#43

Dibromomethane

Concen: 0.283 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

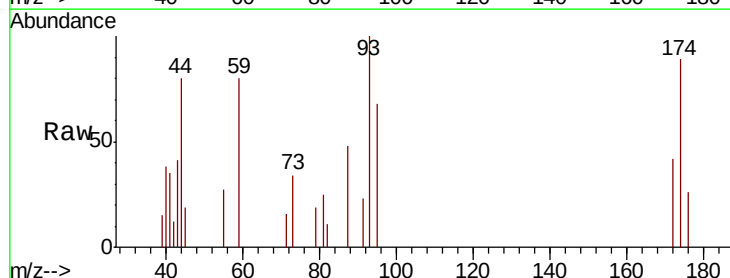
Tgt Ion: 93 Resp: 2053

Ion Ratio Lower Upper

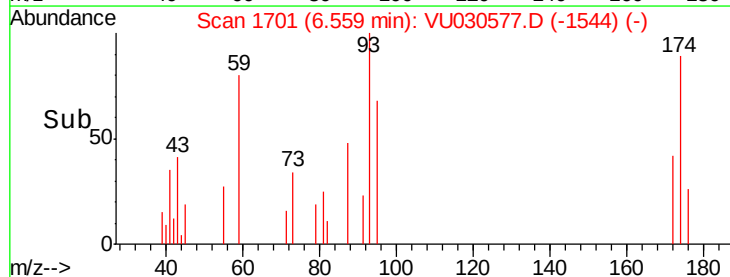
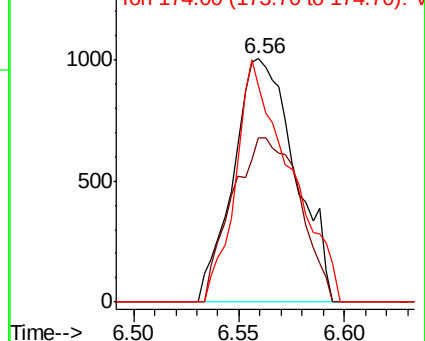
93 100

95 73.4 63.9 95.9

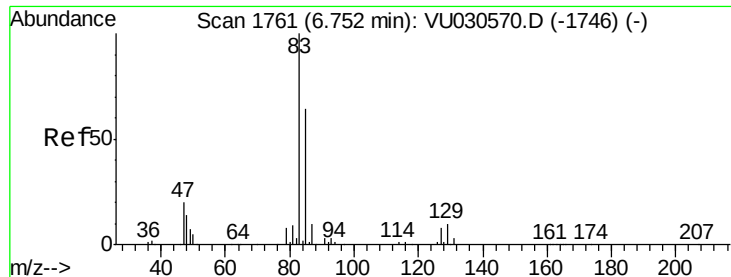
174 87.6 71.0 106.4



Abundance Ion 93.00 (92.70 to 93.70): VU030577.D (-1544) (-)







#44

Bromodichloromethane

Concen: 0.297 ug/l

RT: 6.76 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

ClientSampleId :

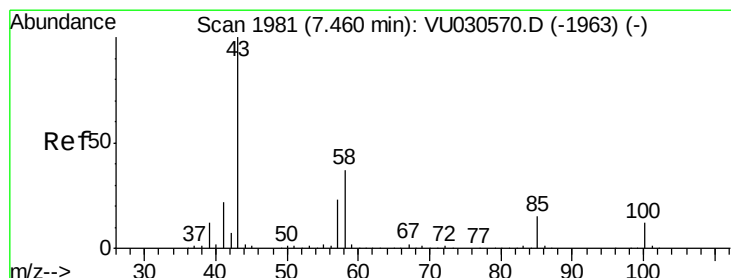
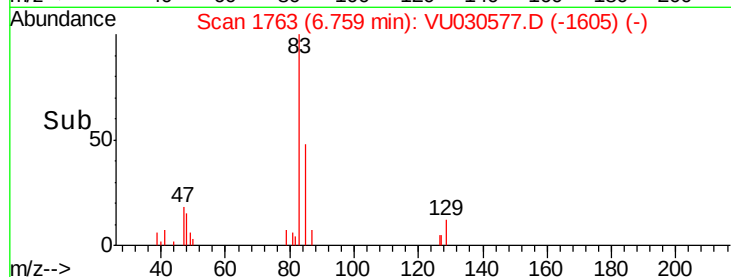
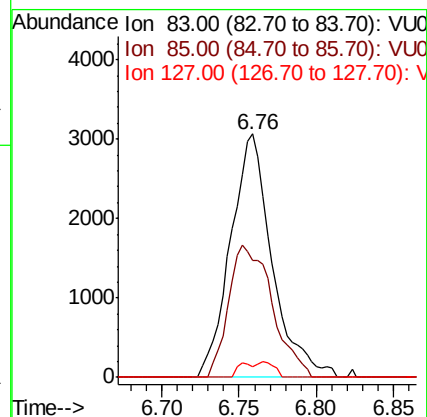
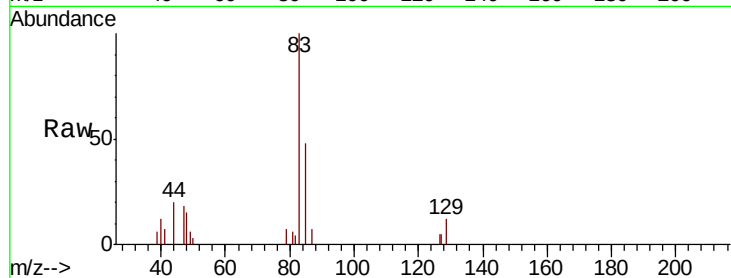
Tot Ion: 83 Resp: 5710

Ion Ratio Lower Upper

83 100

85 48.0 51.1 76.7#

127 4.5 6.1 9.1#



#45

4-Methyl-2-Pentanone

Concen: 1.254 ug/l

RT: 7.47 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

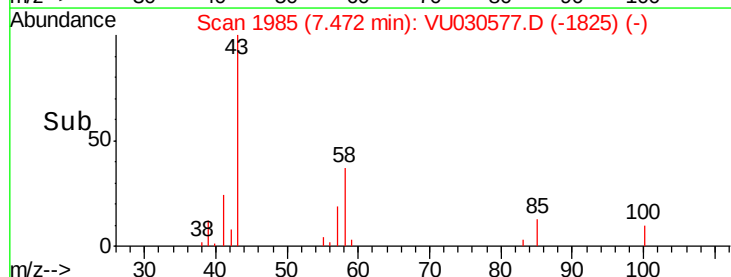
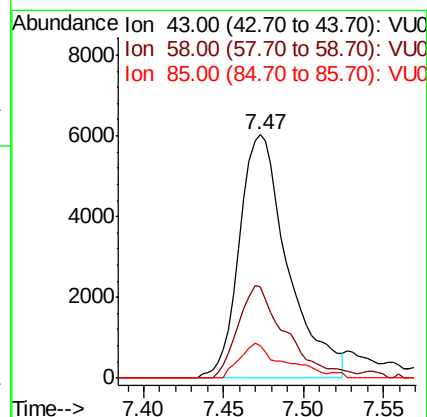
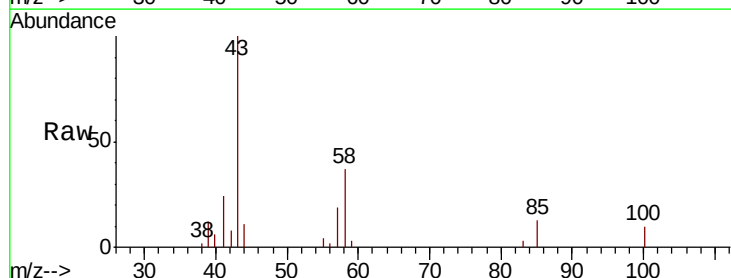
Tgt Ion: 43 Resp: 12508

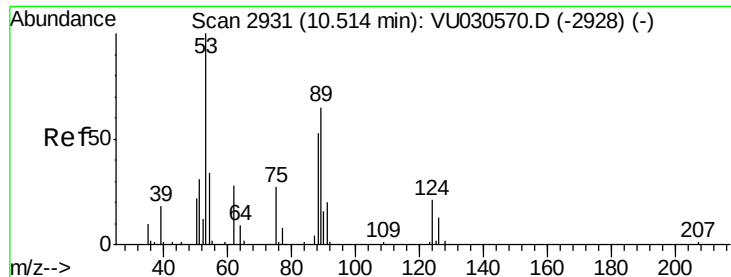
Ion Ratio Lower Upper

43 100

58 37.6 18.6 55.8

85 13.0 11.8 17.6

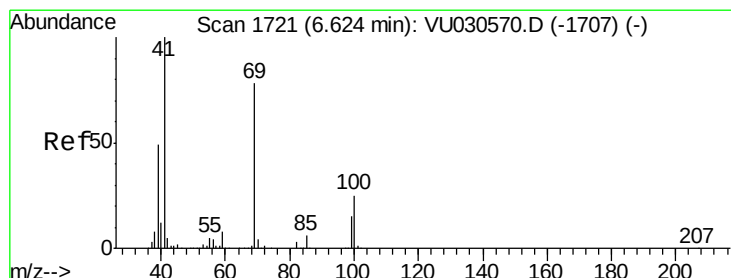
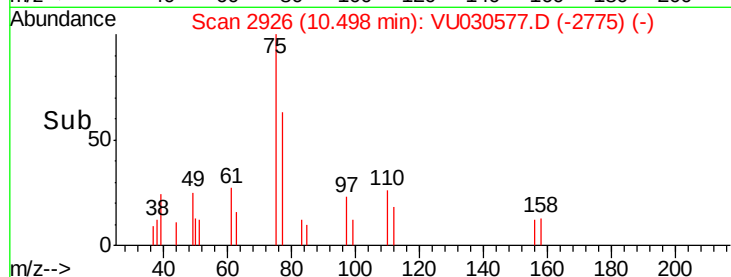
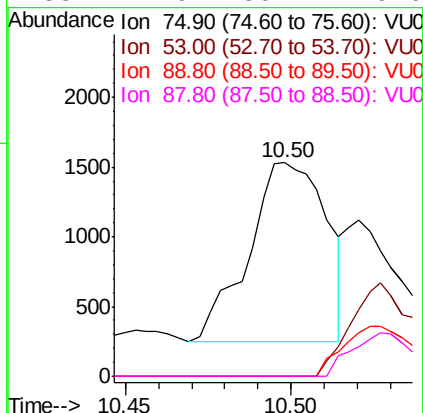
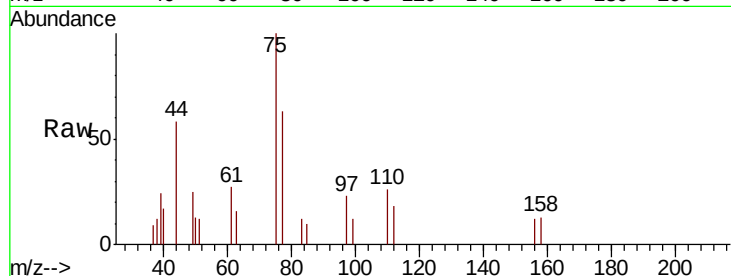




#46  
t-1,4-Dichloro-2-butene  
Concen: 0.657 ug/l  
RT: 10.50 min Scan# 2926  
Delta R.T. -0.02 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

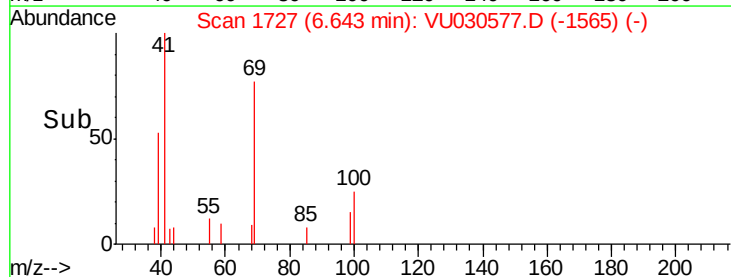
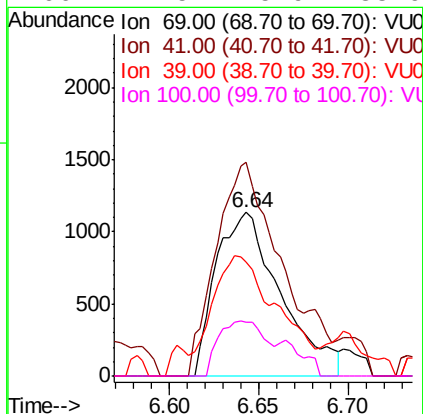
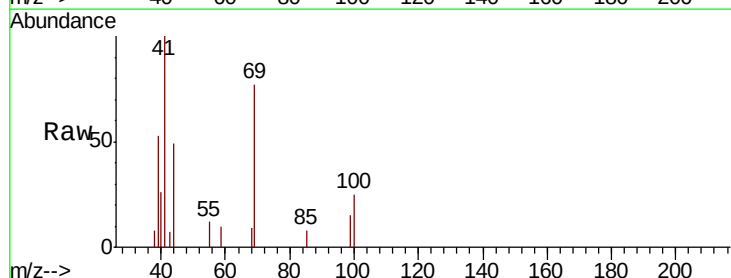
Instrument :  
MSVOA\_U  
ClientSampleId :

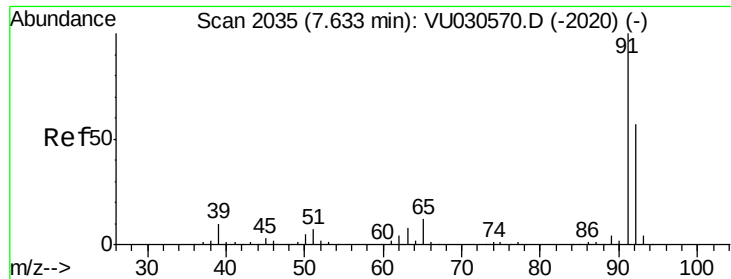
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 35.6  | 63.4  | 95.2# |
| 89      | 26.7  | 39.1  | 58.7# |
| 88      | 17.9  | 30.4  | 45.6# |



#47  
Methyl methacrylate  
Concen: 0.465 ug/l  
RT: 6.64 min Scan# 1727  
Delta R.T. 0.02 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 133.8 | 0.0   | 258.0 |
| 39      | 74.5  | 51.0  | 76.4  |
| 100     | 24.5  | 25.9  | 38.9# |





#49

Toluene

Concen: 0.235 ug/l

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

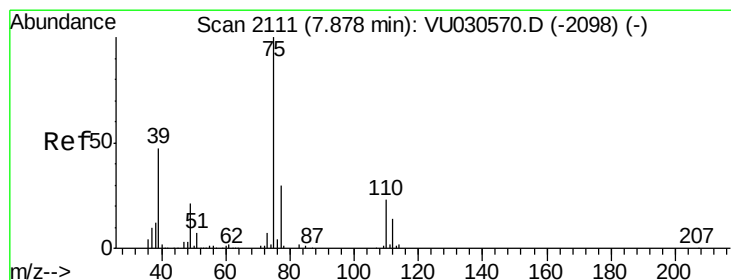
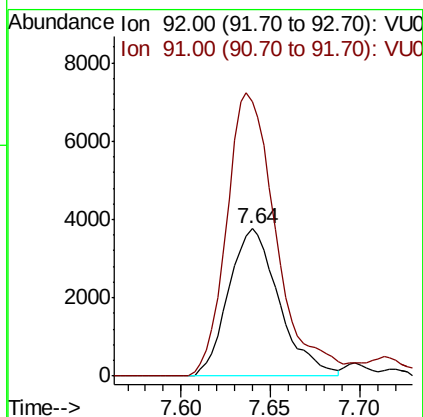
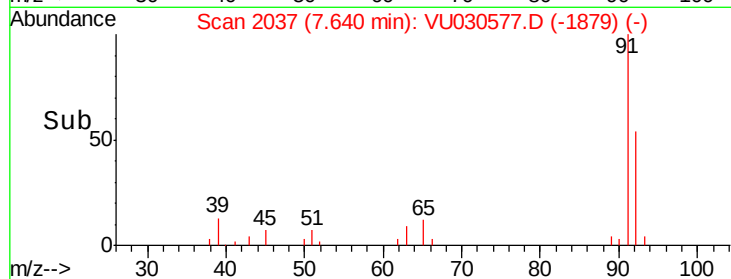
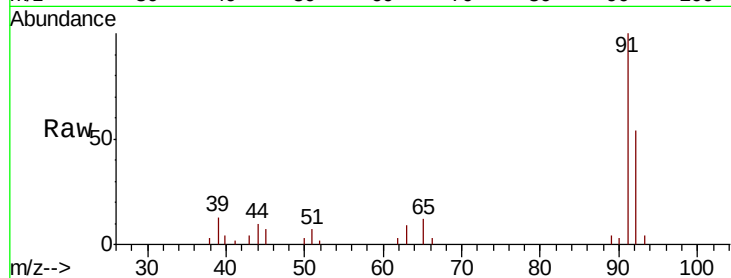
ClientSampled :

Tot Ion: 92 Resp: 7422

Ion Ratio Lower Upper

92 100

91 188.7 140.2 210.4



#50

t-1,3-Dichloropropene

Concen: 0.240 ug/l

RT: 7.89 min Scan# 2116

Delta R.T. 0.02 min

Lab File: VU030577.D

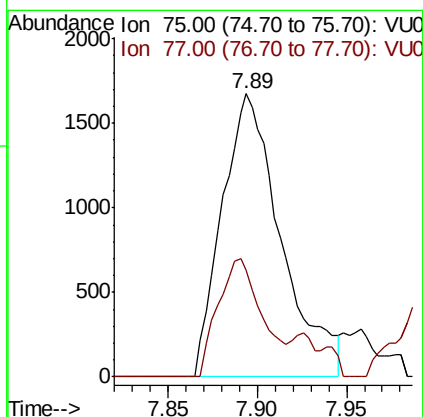
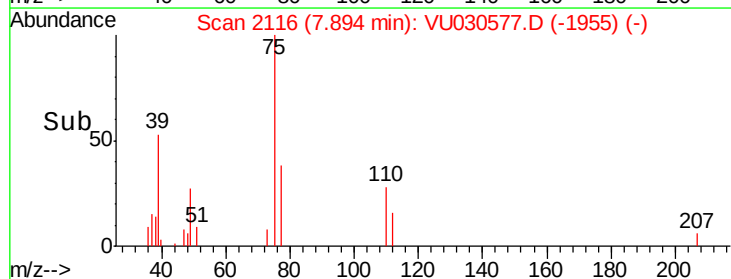
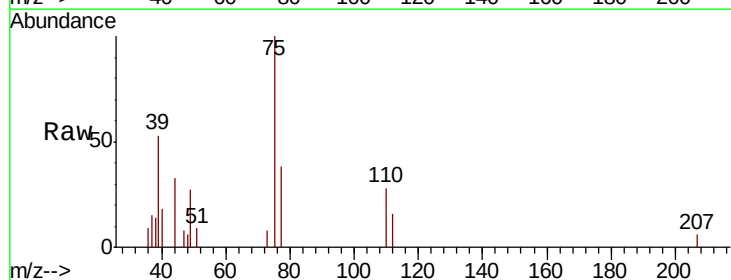
Acq: 30 Mar 2019 17:27

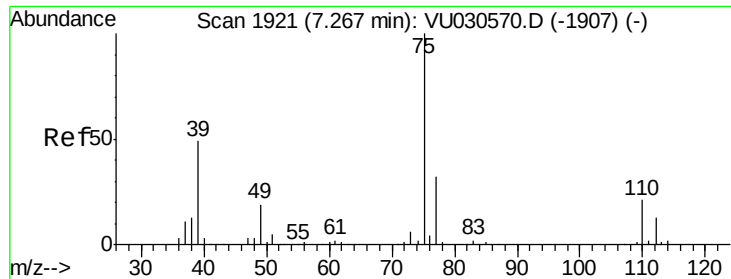
Tgt Ion: 75 Resp: 3861

Ion Ratio Lower Upper

75 100

77 37.7 24.4 36.6#

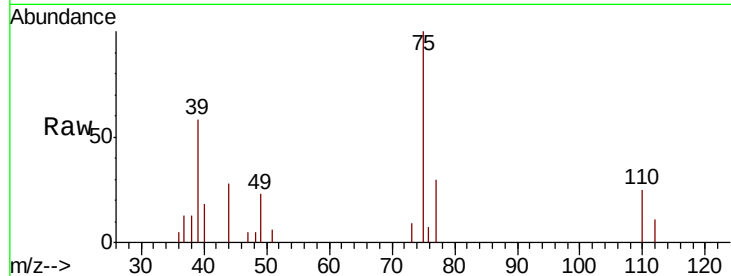




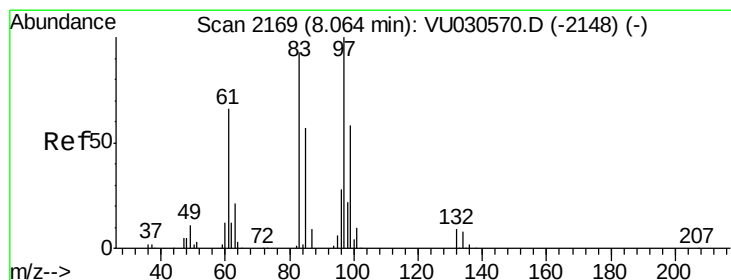
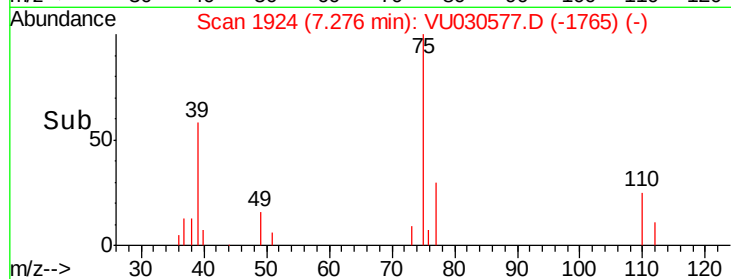
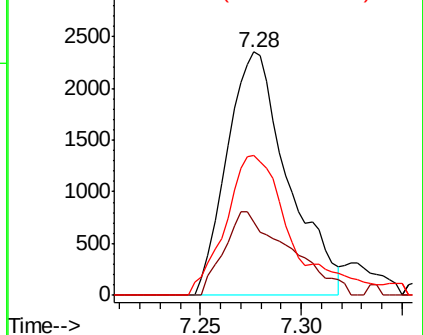
#51  
 cis-1,3-Dichloropropene  
 Concen: 0.248 ug/l  
 RT: 7.28 min Scan# 1924  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 75 Resp: 4962  
 Ion Ratio Lower Upper  
 75 100  
 77 30.0 25.8 38.6  
 39 57.7 39.3 58.9



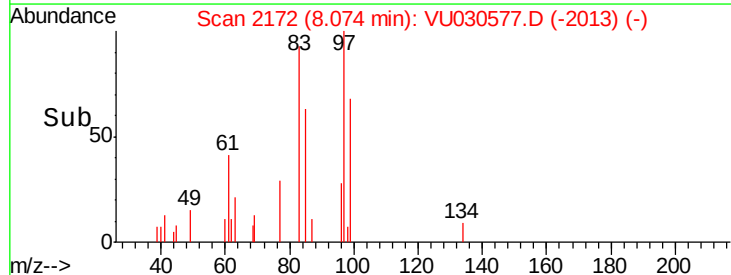
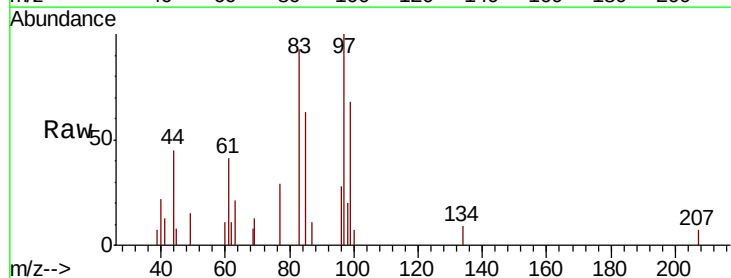
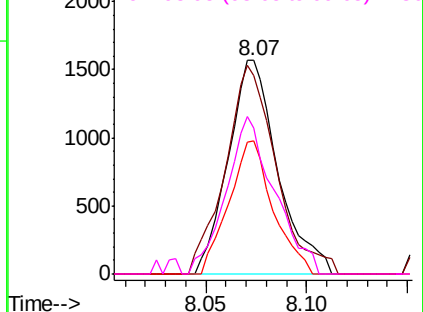
Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0  
 Ion 39.00 (38.70 to 39.70): VU0

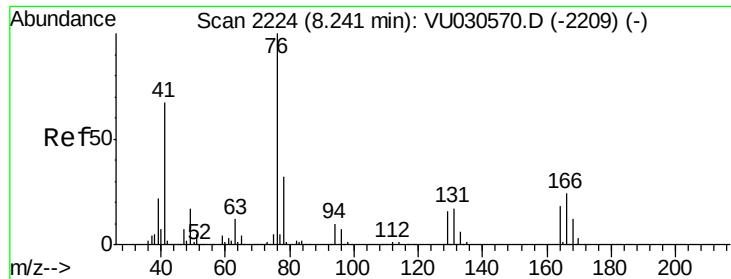


#52  
 1,1,2-Trichloroethane  
 Concen: 0.273 ug/l  
 RT: 8.07 min Scan# 2172  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion: 97 Resp: 2698  
 Ion Ratio Lower Upper  
 97 100  
 83 92.7 74.3 111.5  
 85 62.6 45.4 68.0  
 99 68.5 46.6 70.0

Abundance Ion 97.00 (96.70 to 97.70): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 84.95 (84.65 to 85.65): VU0  
 Ion 98.95 (98.65 to 99.65): VU0





#53

1,3-Dichloropropane

Concen: 0.261 ug/l

RT: 8.25 min Scan# 2226

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

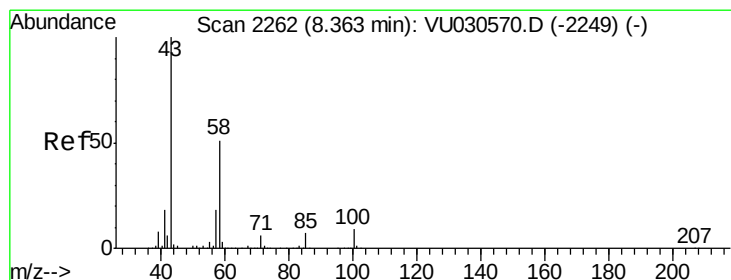
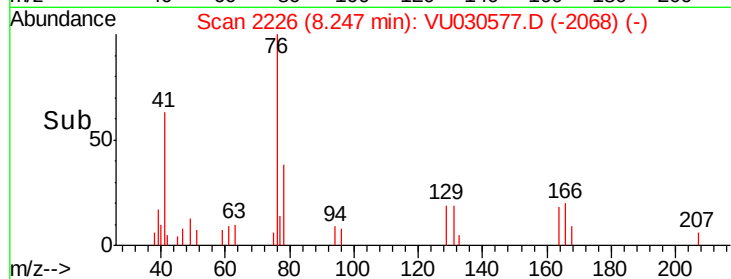
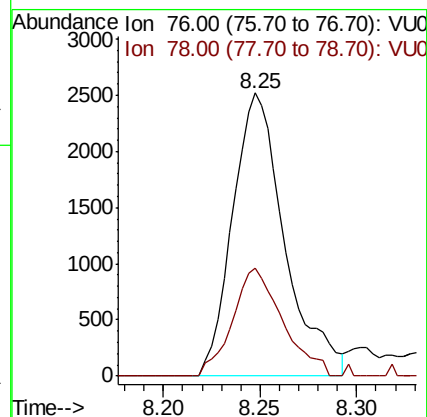
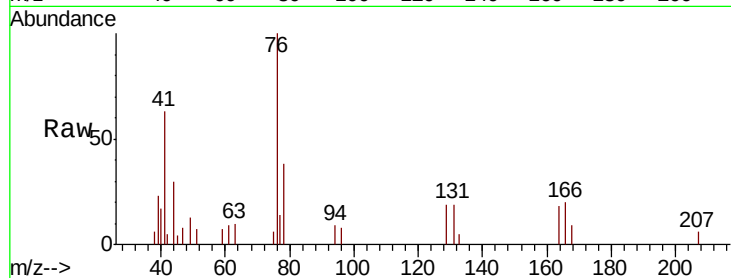
ClientSampleId :

Tot Ion: 76 Resp: 4719

Ion Ratio Lower Upper

76 100

78 36.6 25.3 37.9



#54

2-Hexanone

Concen: 1.383 ug/l

RT: 8.38 min Scan# 2268

Delta R.T. 0.02 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

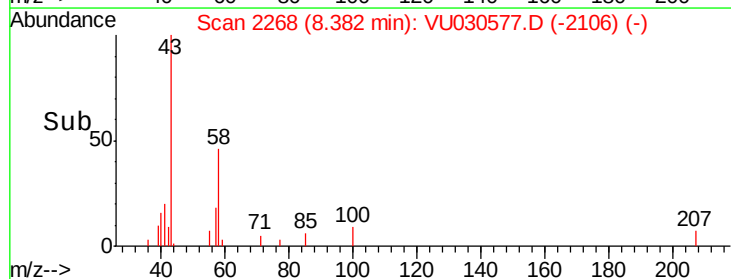
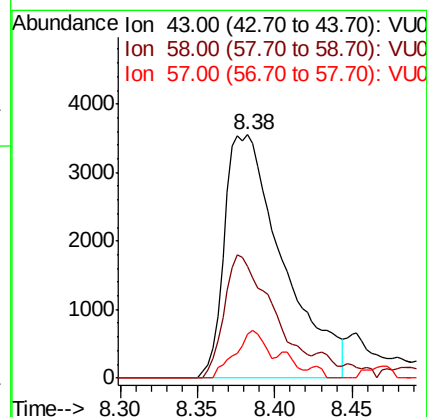
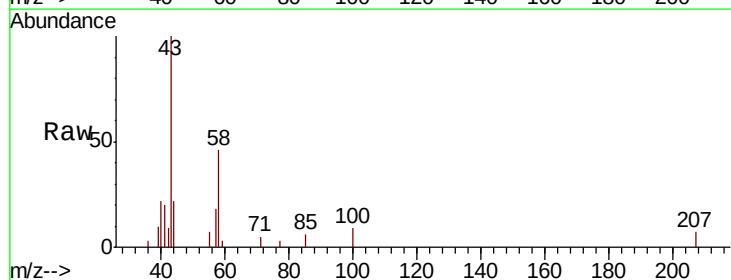
Tgt Ion: 43 Resp: 9313

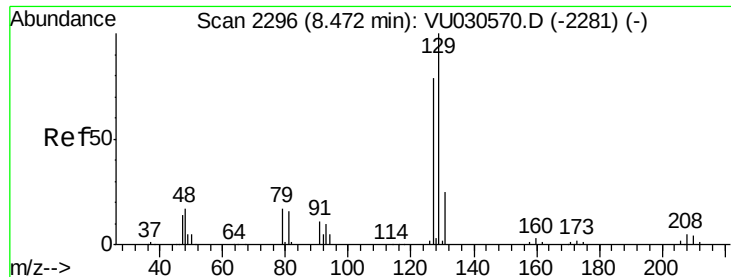
Ion Ratio Lower Upper

43 100

58 42.4 32.5 72.5

57 10.3 0.0 37.6





#55

Dibromochloromethane

Concen: 0.296 ug/l

RT: 8.48 min Scan# 2297

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

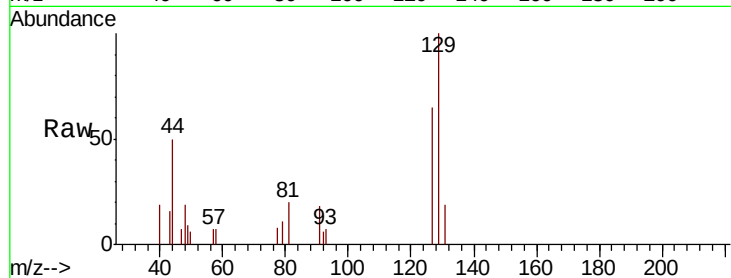
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:129 Resp: 3389

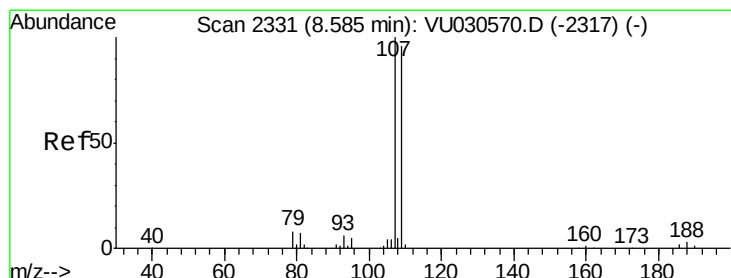
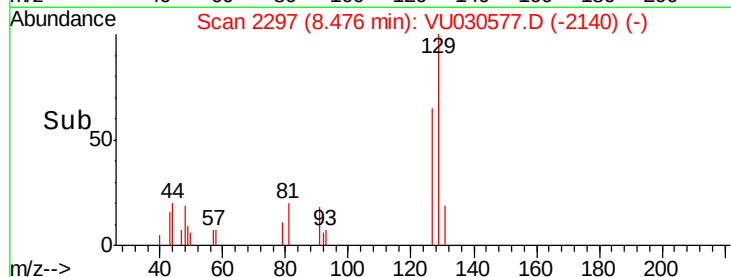
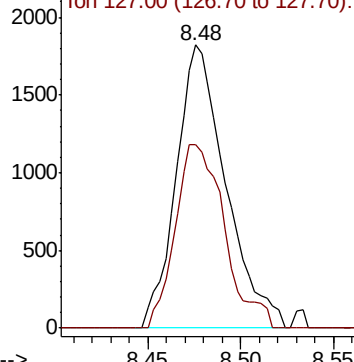
Ion Ratio Lower Upper

129 100

127 64.3 62.2 93.4



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.298 ug/l

RT: 8.59 min Scan# 2332

Delta R.T. 0.00 min

Lab File: VU030577.D

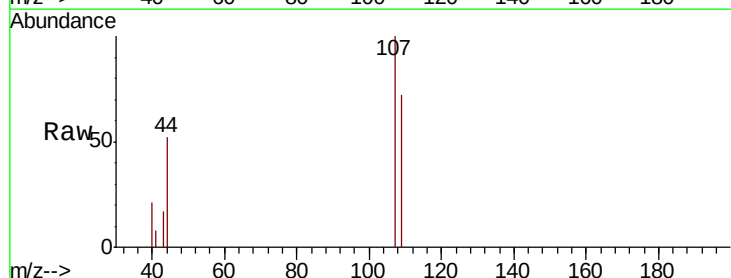
Acq: 30 Mar 2019 17:27

Tgt Ion:107 Resp: 2737

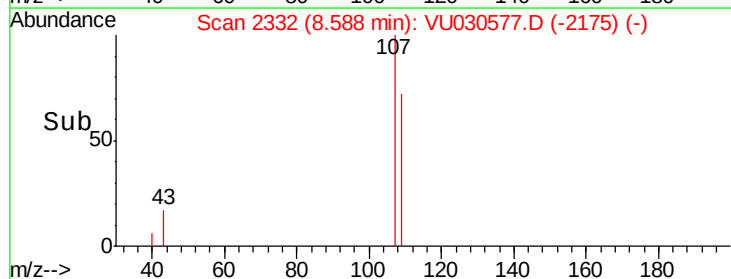
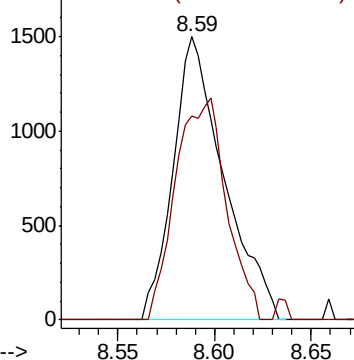
Ion Ratio Lower Upper

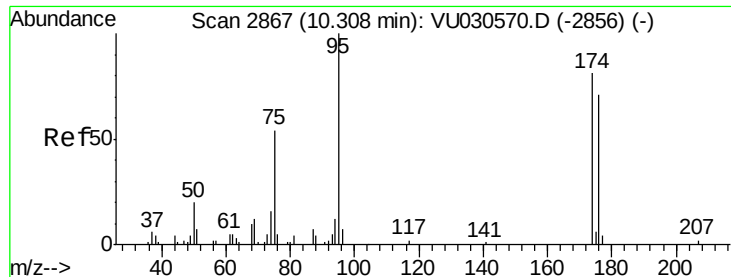
107 100

109 78.3 0.0 190.0



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V

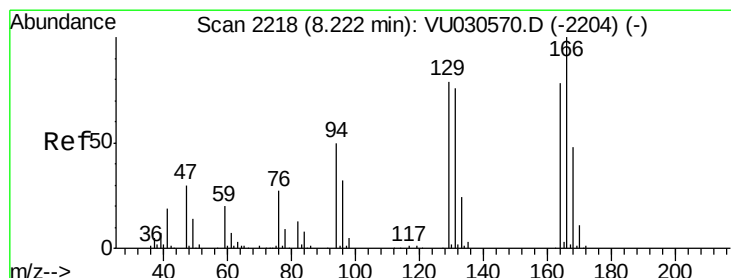
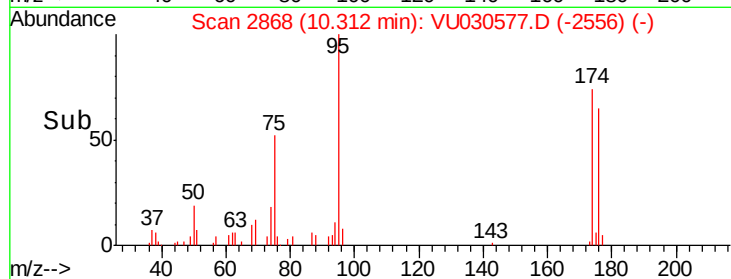
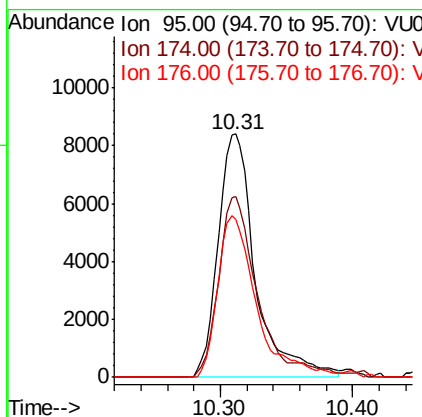
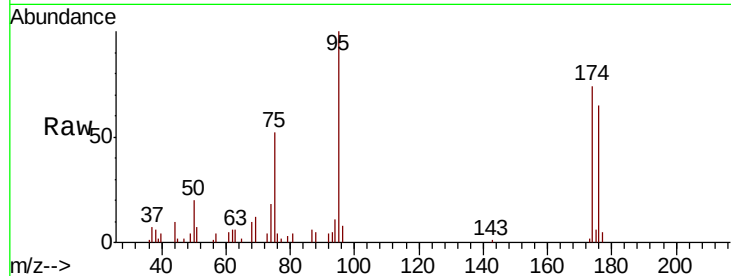




#57  
4-Bromofluorobenzene  
Concen: 0.298 ug/l  
RT: 10.31 min Scan# 2868  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

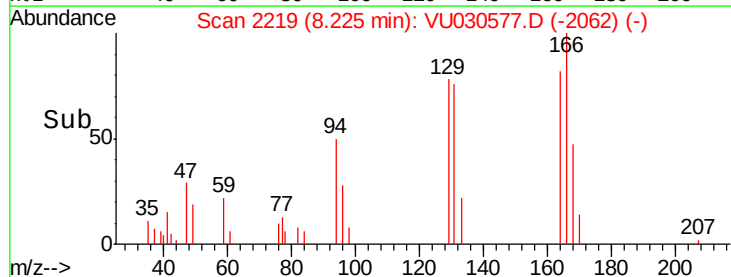
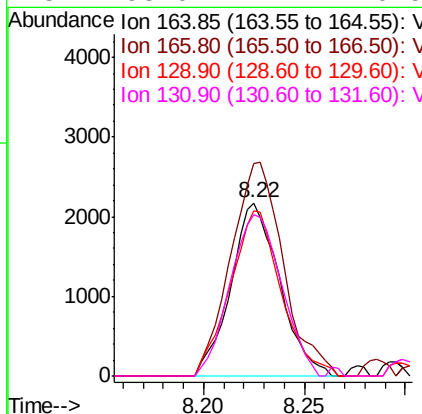
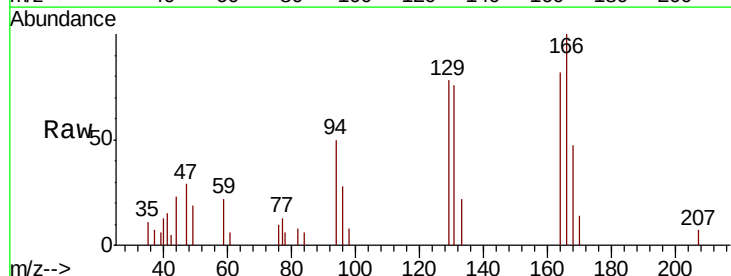
Instrument :  
MSVOA\_U  
ClientSampleId :

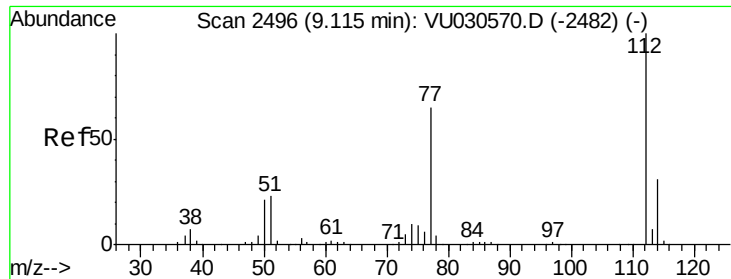
Tot Ion: 95 Resp: 16487  
Ion Ratio Lower Upper  
95 100  
174 72.9 60.5 90.7  
176 68.8 57.9 86.9



#58  
Tetrachloroethene  
Concen: 0.297 ug/l  
RT: 8.22 min Scan# 2219  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 164 Resp: 3683  
Ion Ratio Lower Upper  
164 100  
166 122.2 102.4 153.6  
129 95.6 81.4 122.0  
131 93.0 77.7 116.5





#59

Chlorobenzene

Concen: 0.292 ug/l

RT: 9.13 min Scan# 2499

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

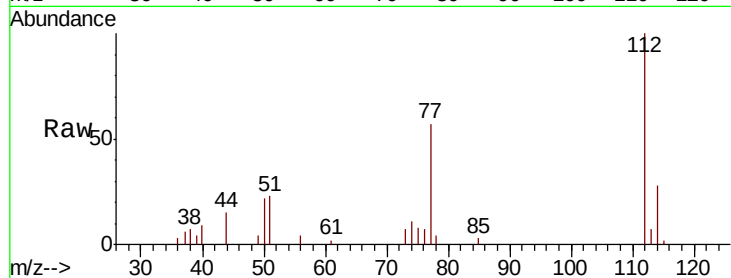
ClientSampled :

Tot Ion:112 Resp: 9969

Ion Ratio Lower Upper

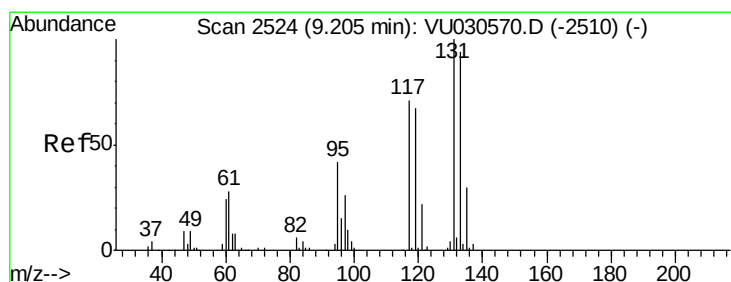
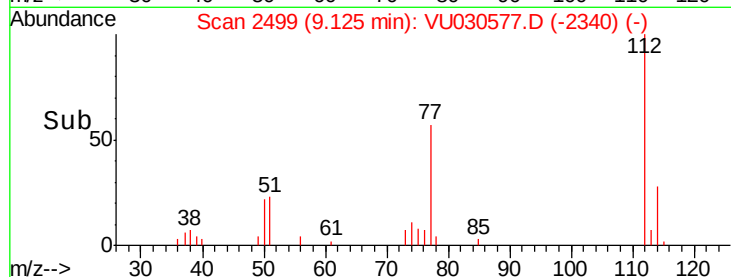
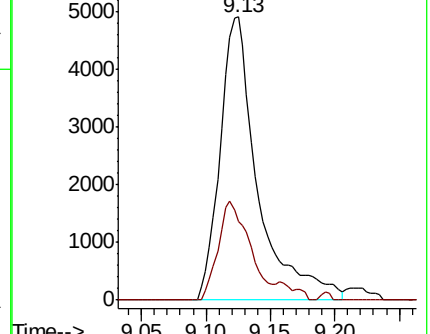
112 100

114 27.9 24.9 37.3



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#60

1,1,1,2-Tetrachloroethane

Concen: 0.294 ug/l

RT: 9.21 min Scan# 2524

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

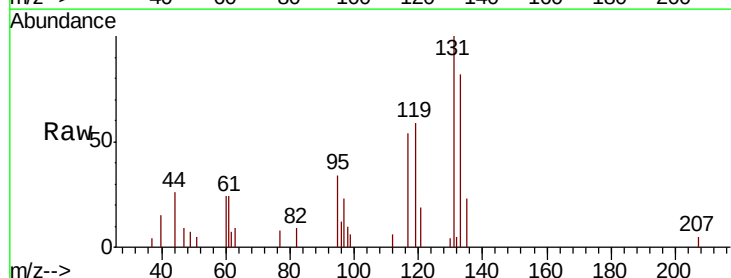
Tgt Ion:131 Resp: 3730

Ion Ratio Lower Upper

131 100

133 93.8 77.5 116.3

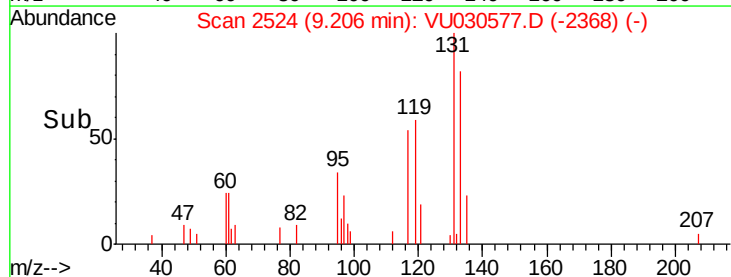
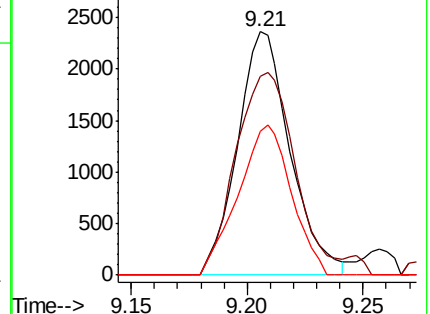
119 62.2 53.2 79.8



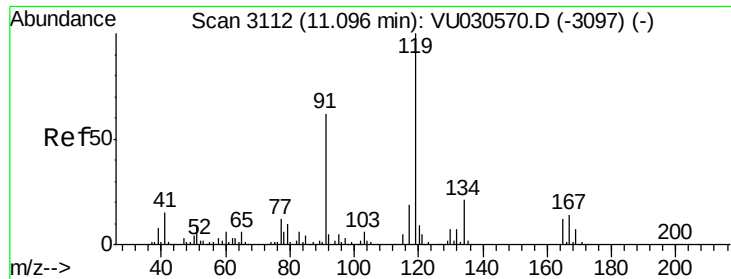
Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



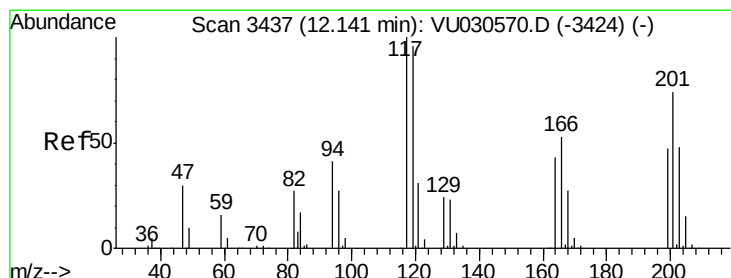
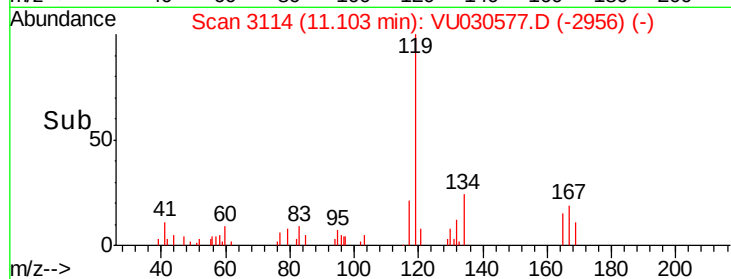
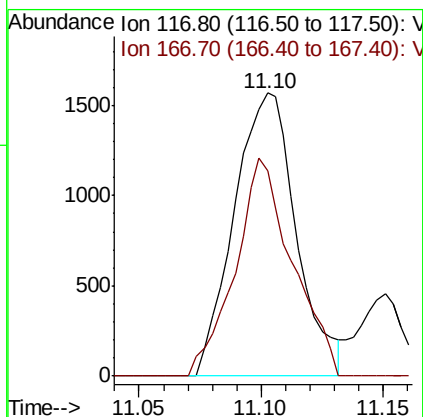
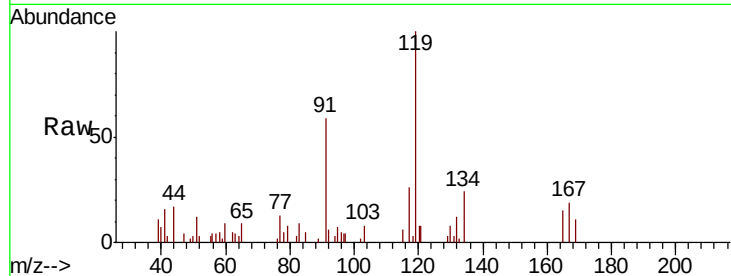




#61  
 Pentachloroethane  
 Concen: 0.284 ug/l  
 RT: 11.10 min Scan# 3114  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

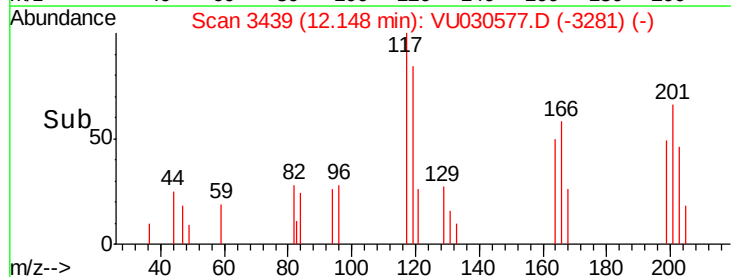
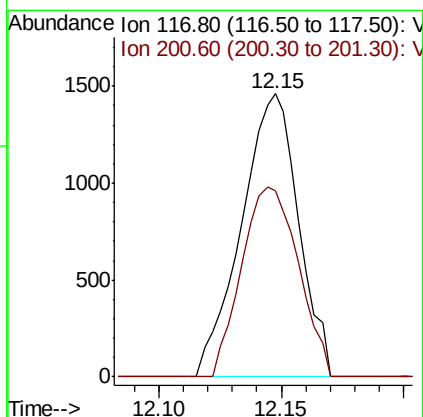
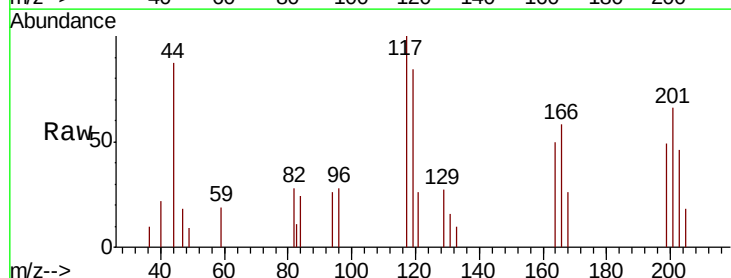
Instrument :  
 MSVOA\_U  
 ClientSampleId :

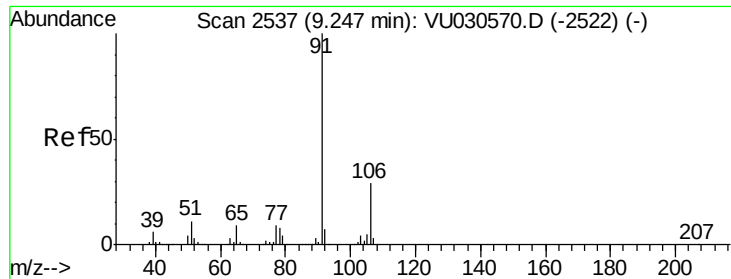
Tot Ion:117 Resp: 2771  
 Ion Ratio Lower Upper  
 117 100  
 167 70.9 62.6 93.8



#62  
 Hexachloroethane  
 Concen: 0.278 ug/l  
 RT: 12.15 min Scan# 3439  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion:117 Resp: 2368  
 Ion Ratio Lower Upper  
 117 100  
 201 66.7 59.1 88.7

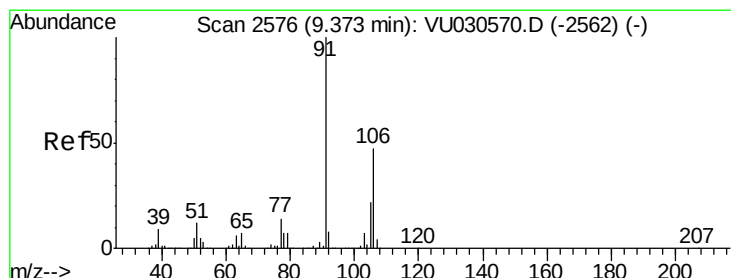
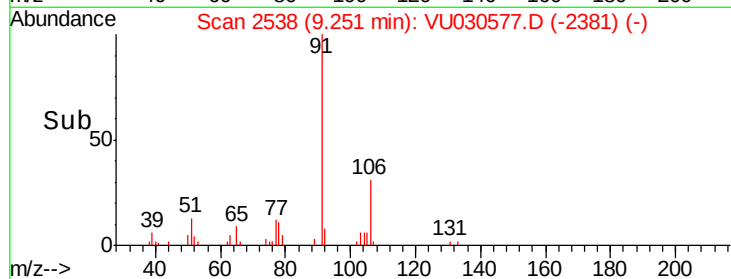
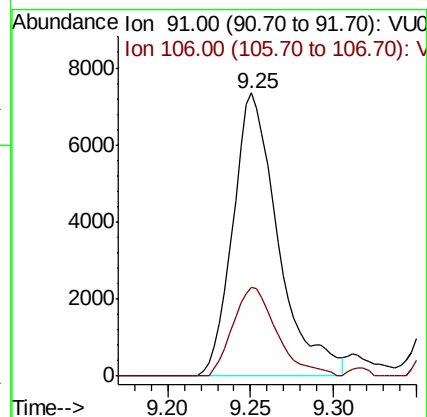
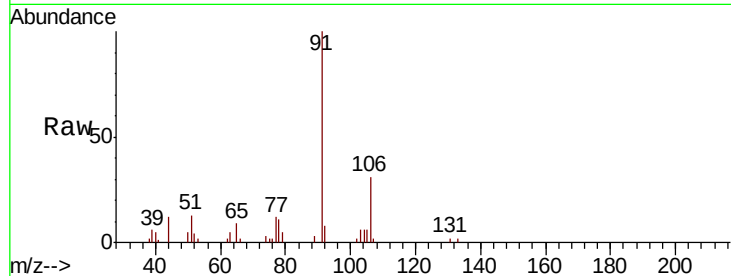




#63  
Ethyl Benzene  
Concen: 0.230 ug/l  
RT: 9.25 min Scan# 2538  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

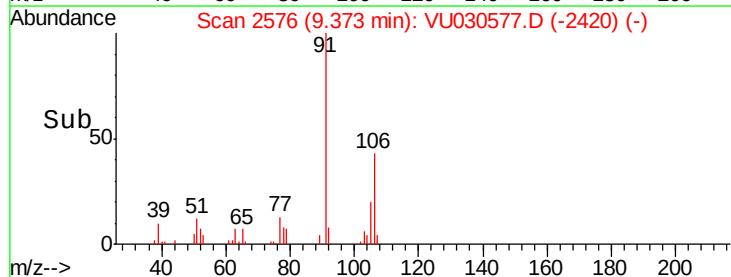
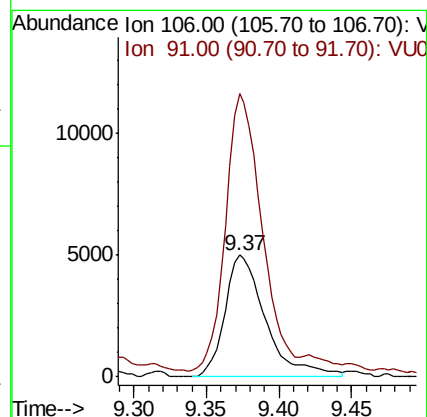
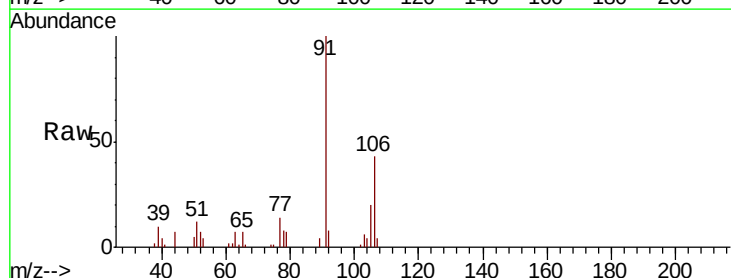
Instrument :  
MSVOA\_U  
ClientSampleId :

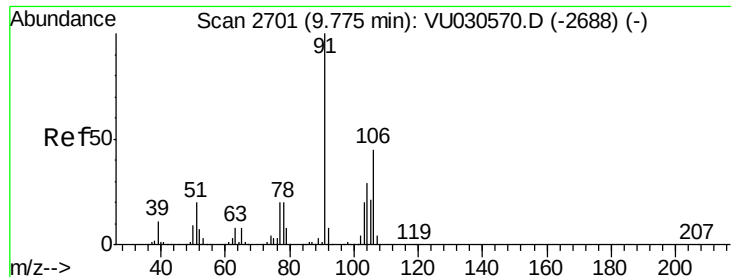
Tot Ion: 91 Resp: 13986  
Ion Ratio Lower Upper  
91 100  
106 31.2 23.1 34.7



#64  
m/p-Xylenes  
Concen: 0.442 ug/l  
RT: 9.37 min Scan# 2576  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion: 106 Resp: 9804  
Ion Ratio Lower Upper  
106 100  
91 201.3 179.4 269.0





#65

o-Xylene

Concen: 0.243 ug/l

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

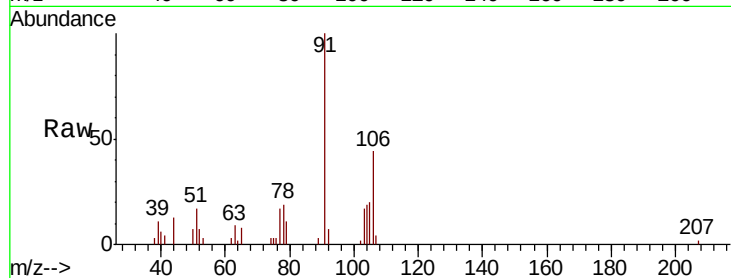
ClientSampled :

Tot Ion:106 Resp: 5178

Ion Ratio Lower Upper

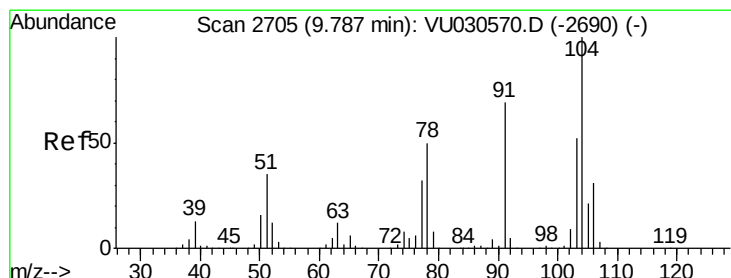
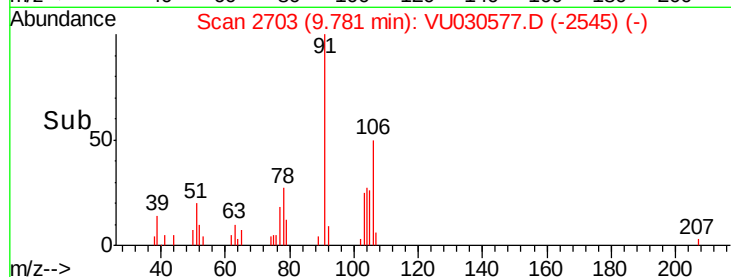
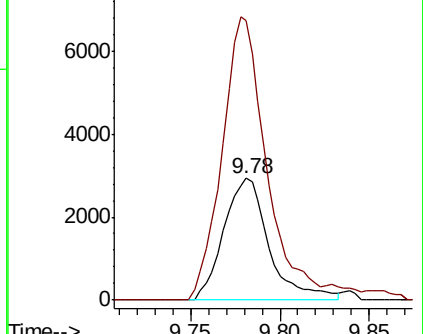
106 100

91 225.7 115.5 346.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 0.203 ug/l

RT: 9.80 min Scan# 2708

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

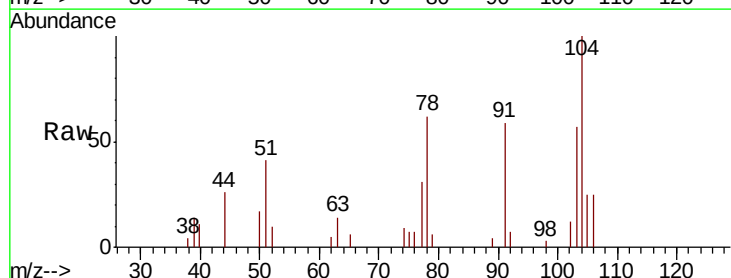
Tgt Ion:104 Resp: 7320

Ion Ratio Lower Upper

104 100

78 65.7 42.3 63.5#

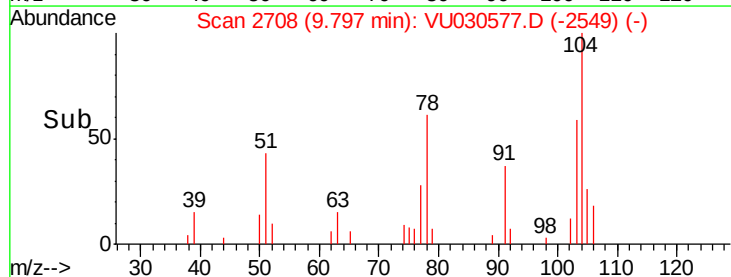
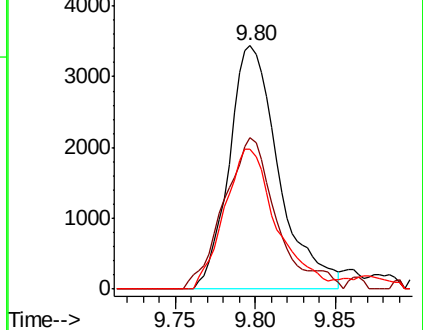
103 60.0 44.7 67.1

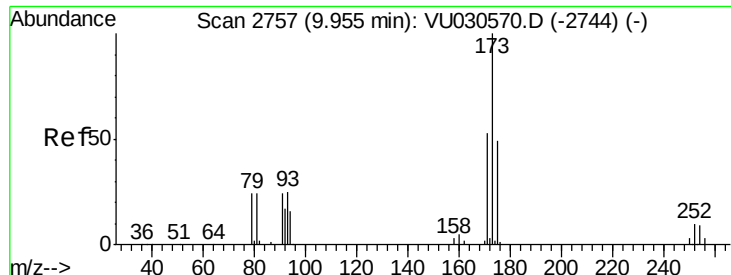


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V

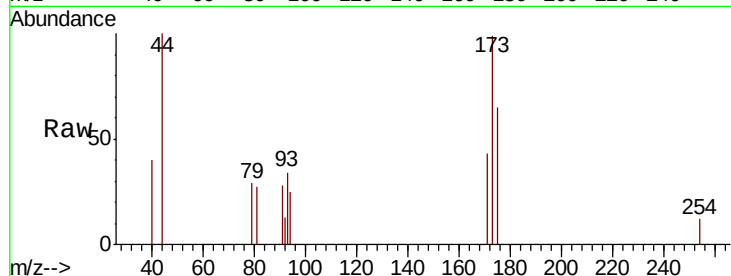




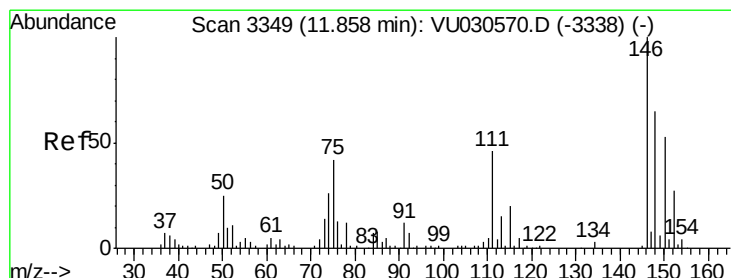
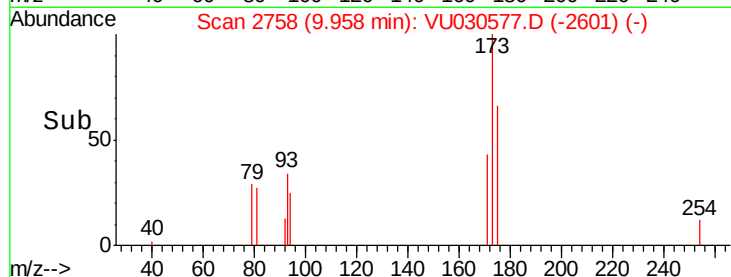
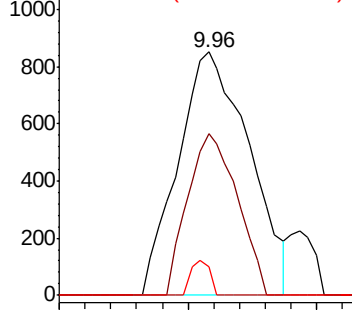
#67  
Bromoform  
Concen: 0.261 ug/l  
RT: 9.96 min Scan# 2758  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:173 Resp: 1639  
Ion Ratio Lower Upper  
173 100  
175 46.6 38.6 57.8  
254 3.8 6.9 10.3#

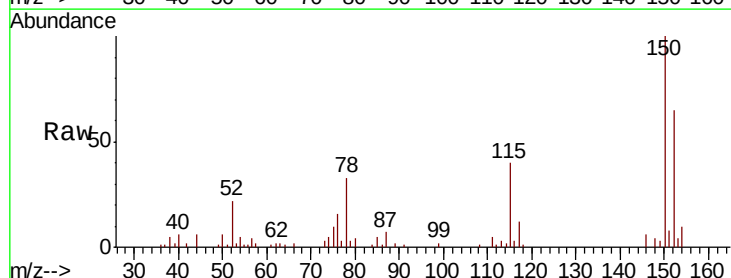


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V

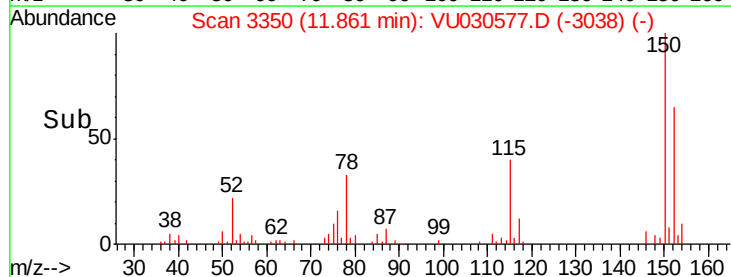
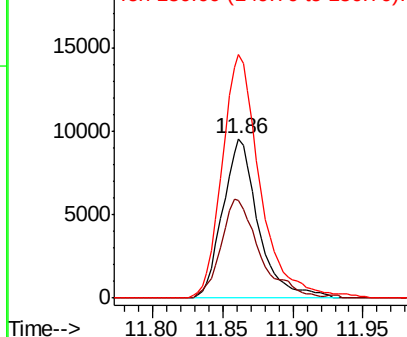


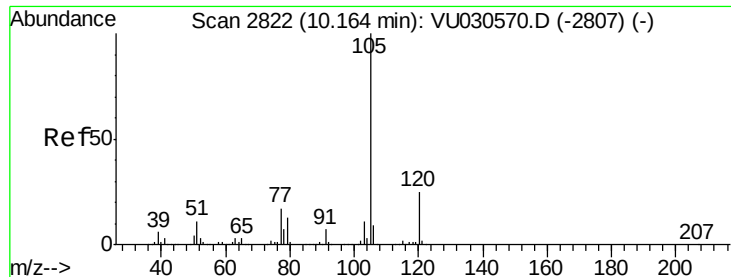
#68  
1,2-Dichlorobenzene-d4  
Concen: 0.261 ug/l  
RT: 11.86 min Scan# 3350  
Delta R.T. 0.00 min  
Lab File: VU030577.D  
Acq: 30 Mar 2019 17:27

Tgt Ion:152 Resp: 16760  
Ion Ratio Lower Upper  
152 100  
115 67.4 0.0 136.2  
150 163.9 0.0 634.6



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 0.230 ug/l

RT: 10.17 min Scan# 2823

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

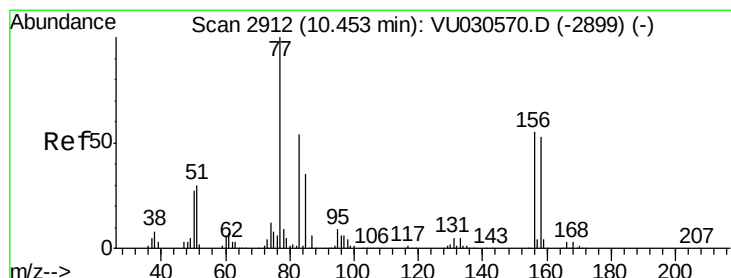
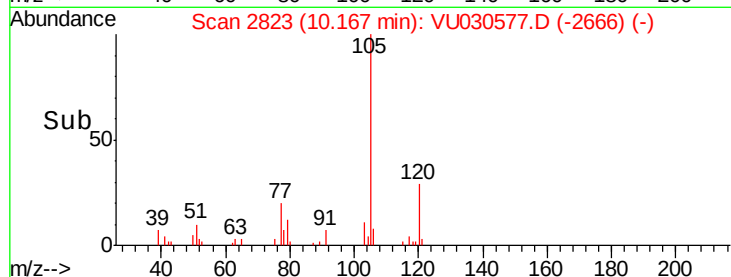
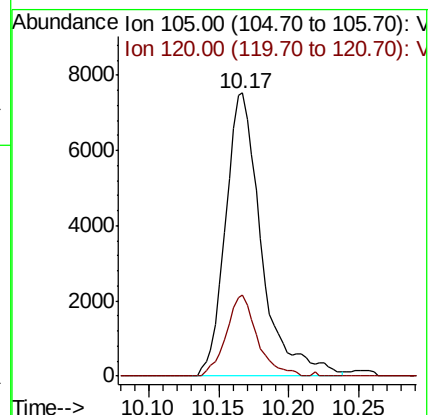
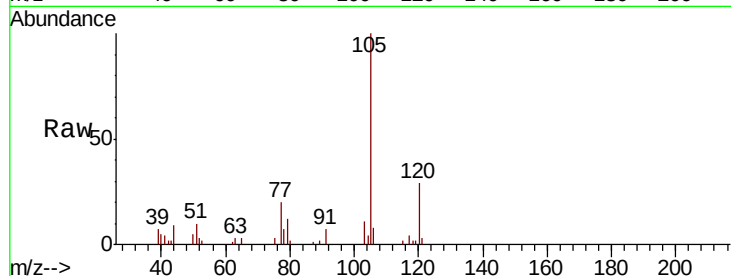
ClientSampleId :

Tot Ion:105 Resp: 13388

Ion Ratio Lower Upper

105 100

120 24.7 12.6 37.6



#70

1,1,2,2-Tetrachloroethane

Concen: 0.316 ug/l

RT: 10.46 min Scan# 2914

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

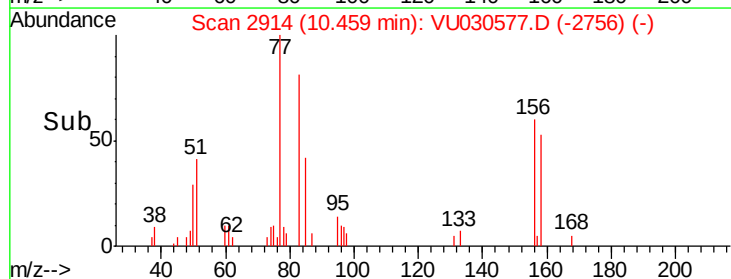
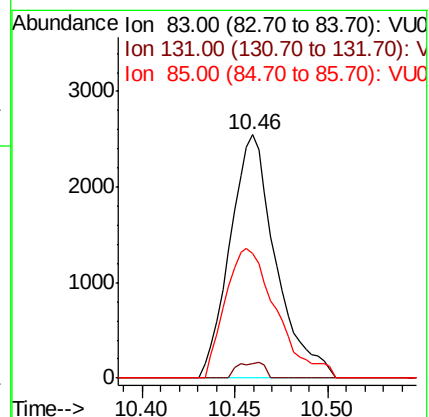
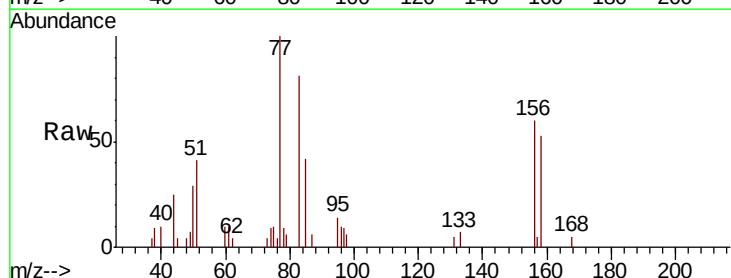
Tgt Ion: 83 Resp: 4368

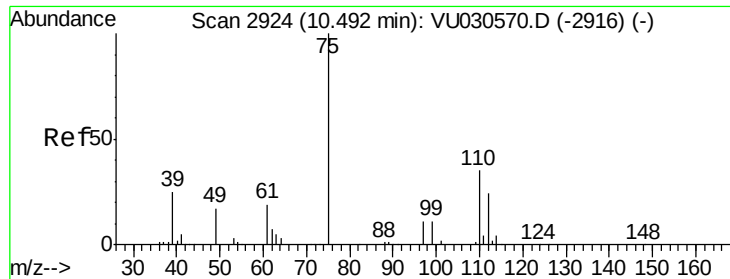
Ion Ratio Lower Upper

83 100

131 3.8 7.0 10.6#

85 59.9 51.0 76.4

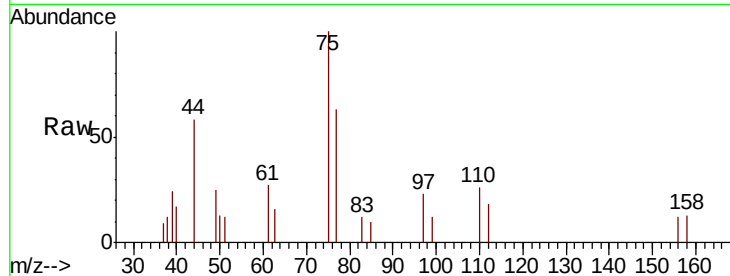




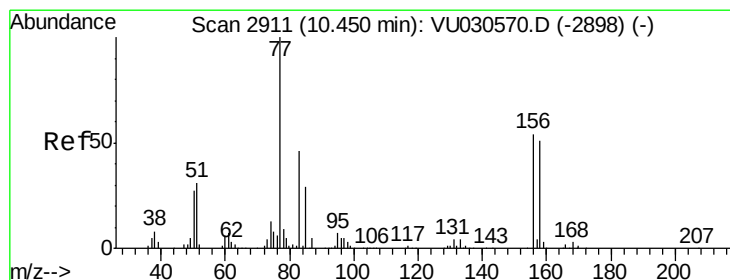
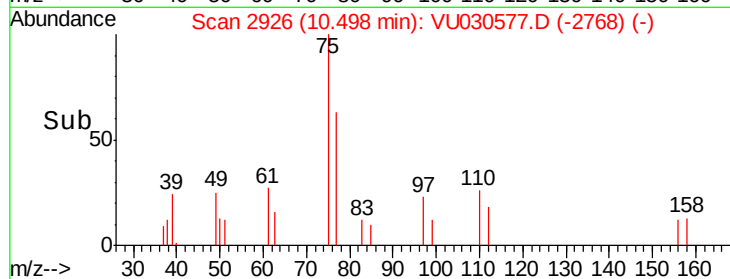
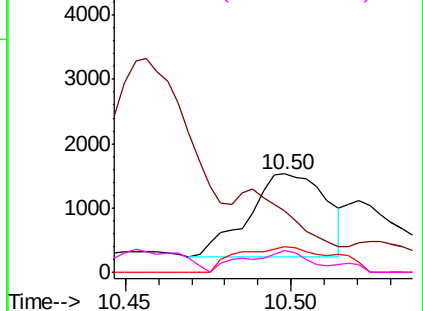
#71  
 1,2,3-Trichloropropane  
 Concen: 0.238 ug/l  
 RT: 10.50 min Scan# 2926  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 2104  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 0.0   | 0.0   |
| 110      | 38.1  | 0.0   | 83.8  |
| 97       | 21.3  | 0.0   | 42.8  |

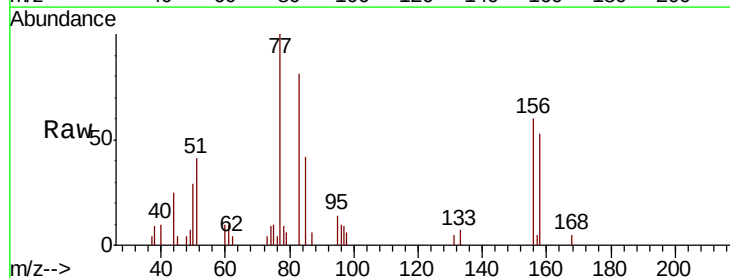


Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0  
 Ion 110.00 (109.70 to 110.70): V  
 Ion 97.00 (96.70 to 97.70): VU0

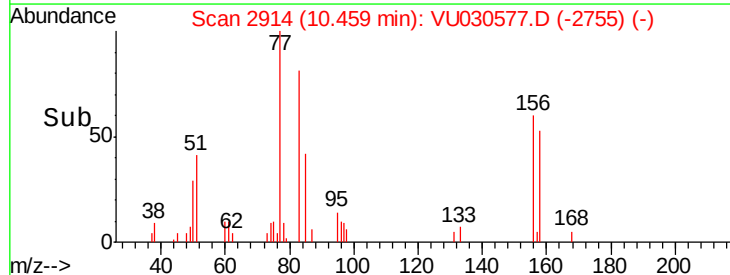
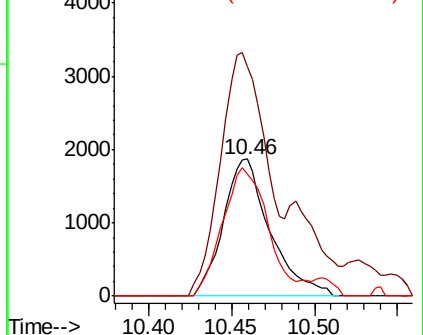


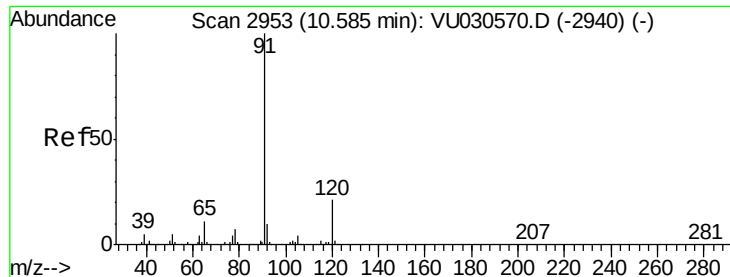
#72  
 Bromobenzene  
 Concen: 0.264 ug/l  
 RT: 10.46 min Scan# 2914  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 156   | Resp: | 3676  |
| Ion      | Ratio | Lower | Upper |
| 156      | 100   |       |       |
| 77       | 174.3 | 0.0   | 363.0 |
| 158      | 90.9  | 0.0   | 193.2 |



Abundance Ion 156.00 (155.70 to 156.70): V  
 Ion 77.00 (76.70 to 77.70): VU0  
 Ion 158.00 (157.70 to 158.70): V





#73

n-propylbenzene

Concen: 0.223 ug/l

RT: 10.59 min Scan# 2955

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

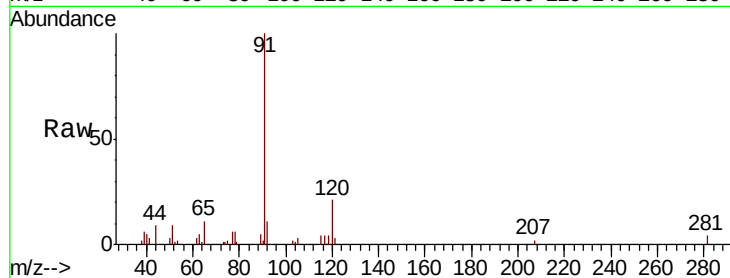
ClientSampled :

Tot Ion:120 Resp: 3326

Ion Ratio Lower Upper

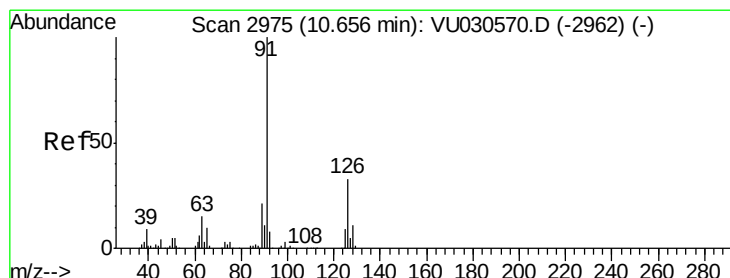
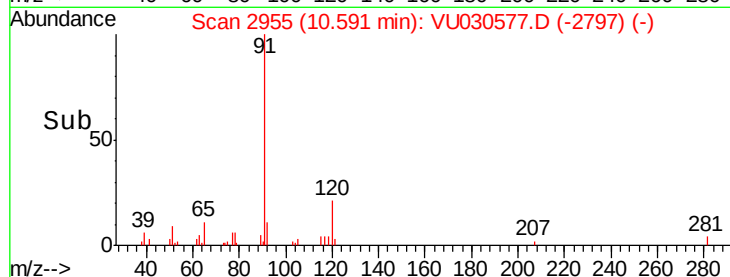
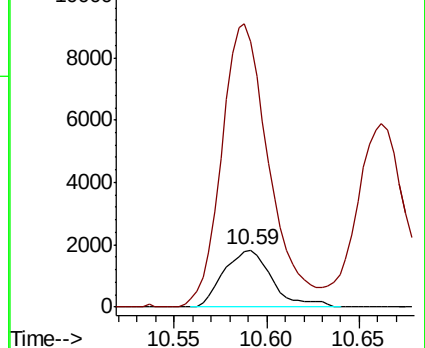
120 100

91 487.3 371.6 557.4



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.224 ug/l

RT: 10.66 min Scan# 2977

Delta R.T. 0.01 min

Lab File: VU030577.D

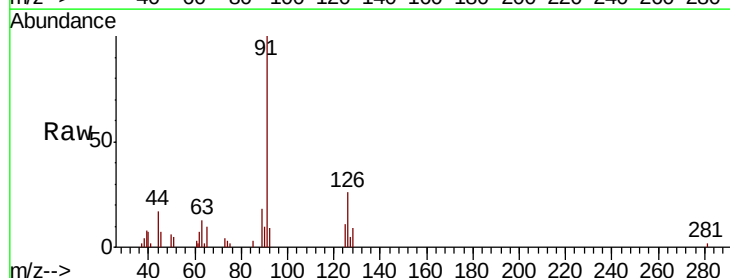
Acq: 30 Mar 2019 17:27

Tgt Ion:126 Resp: 3096

Ion Ratio Lower Upper

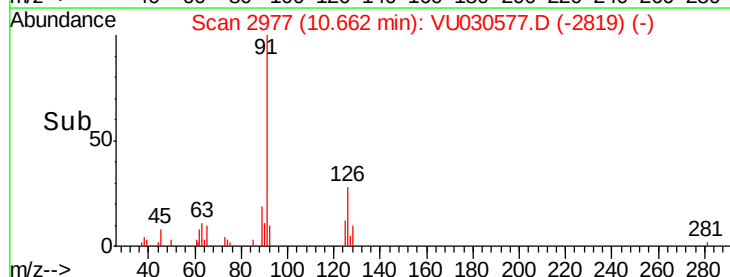
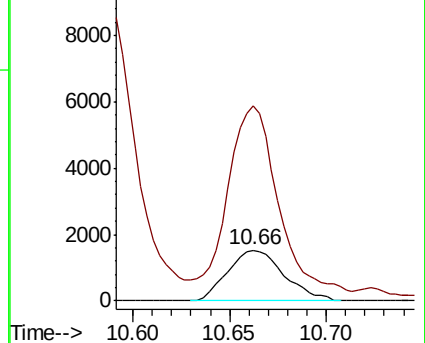
126 100

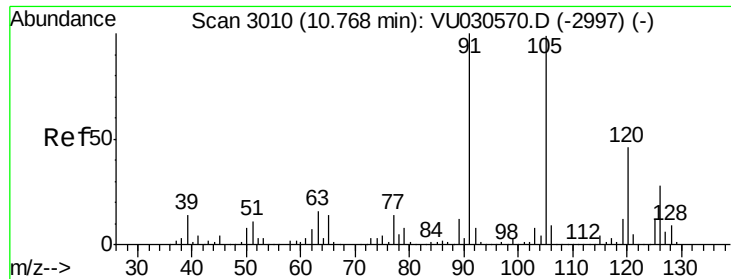
91 330.3 0.0 656.8



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: 0.215 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

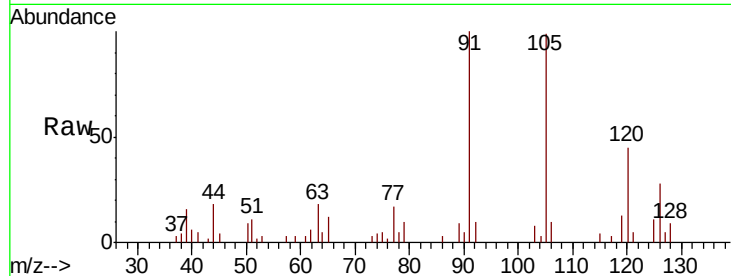
ClientSampled :

Tot Ion:105 Resp: 10515

Ion Ratio Lower Upper

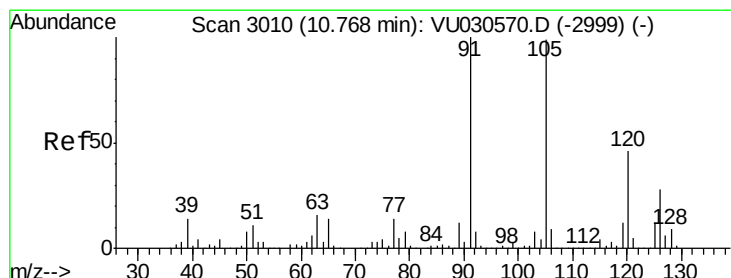
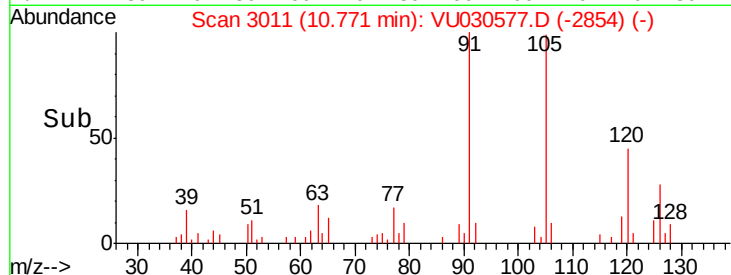
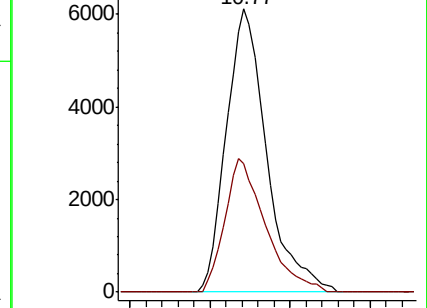
105 100

120 47.6 37.6 56.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 0.246 ug/l

RT: 10.77 min Scan# 3012

Delta R.T. 0.01 min

Lab File: VU030577.D

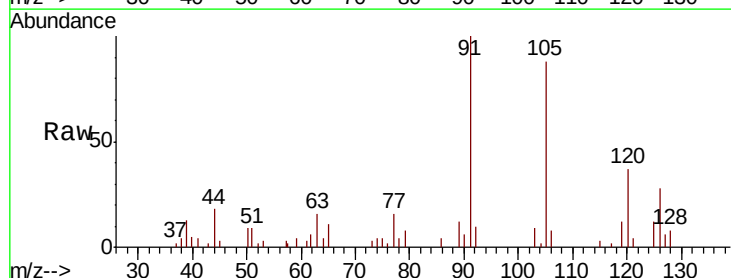
Acq: 30 Mar 2019 17:27

Tgt Ion:126 Resp: 3456

Ion Ratio Lower Upper

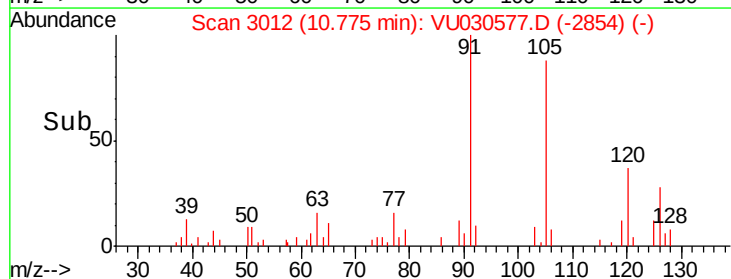
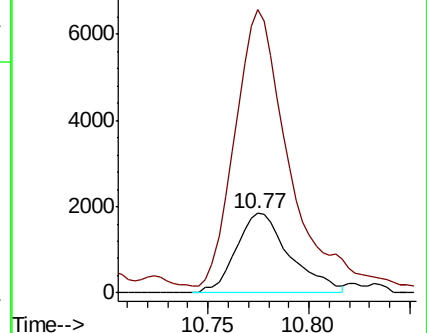
126 100

91 344.5 0.0 721.6

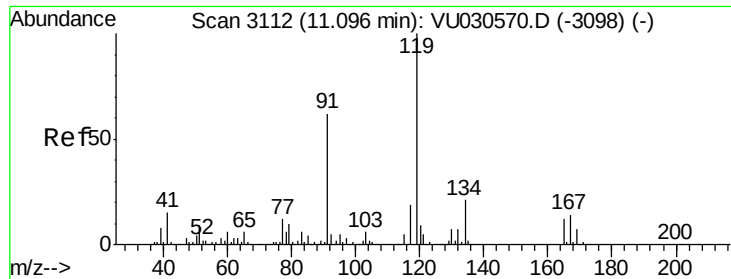


Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



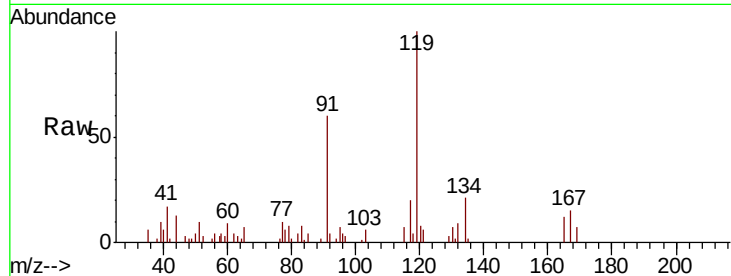




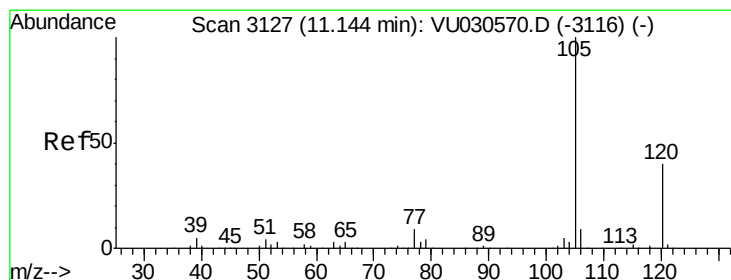
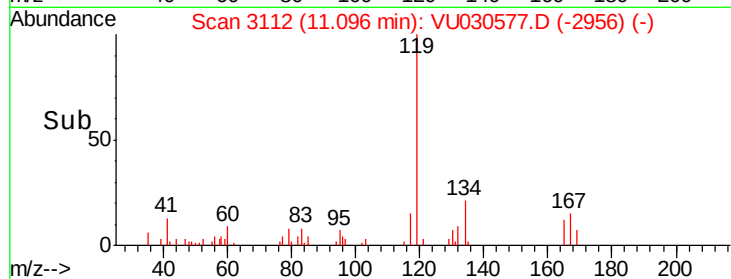
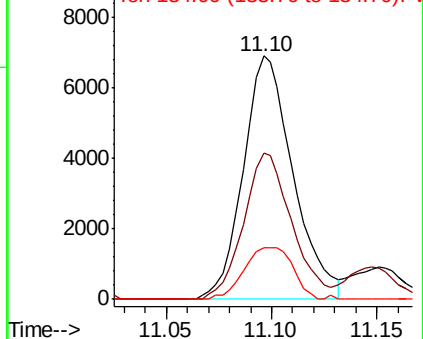
#77  
 tert-Butylbenzene  
 Concen: 0.246 ug/l  
 RT: 11.10 min Scan# 3112  
 Delta R.T. 0.00 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:119 Resp: 11354  
 Ion Ratio Lower Upper  
 119 100  
 91 57.8 30.9 92.8  
 134 20.6 17.6 26.4

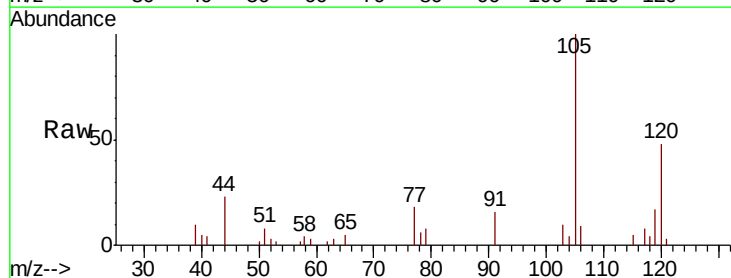


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 91.00 (90.70 to 91.70): VU  
 Ion 134.00 (133.70 to 134.70): V

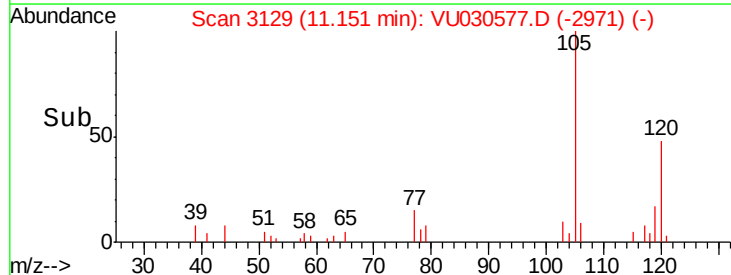
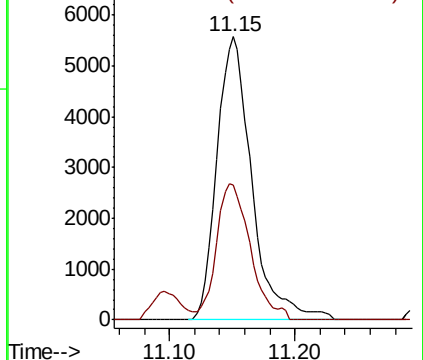


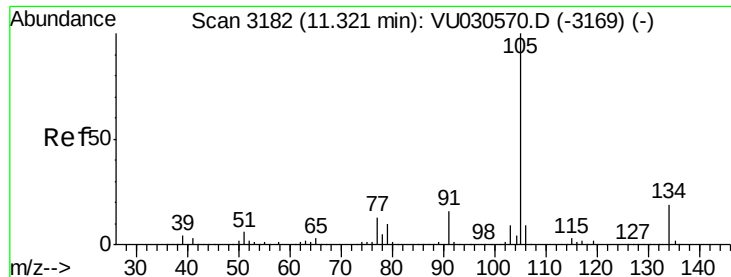
#78  
 1,2,4-Trimethylbenzene  
 Concen: 0.222 ug/l  
 RT: 11.15 min Scan# 3129  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion:105 Resp: 10737  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 0.217 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

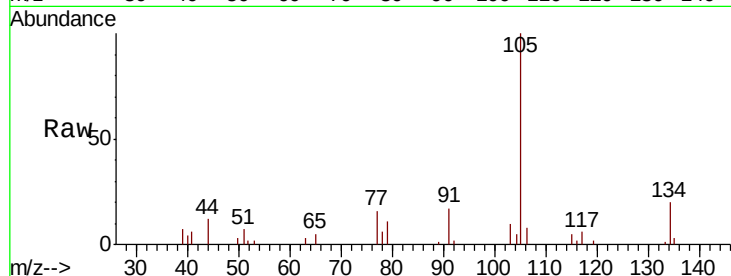
ClientSampleId :

Tot Ion:105 Resp: 13667

Ion Ratio Lower Upper

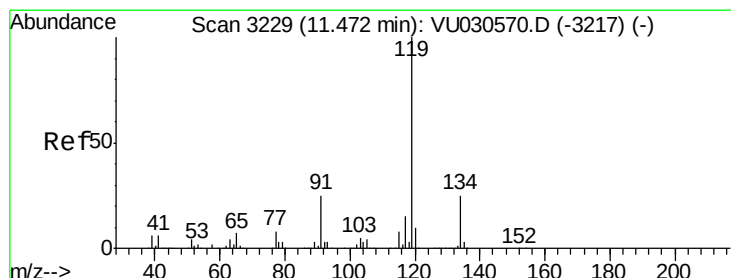
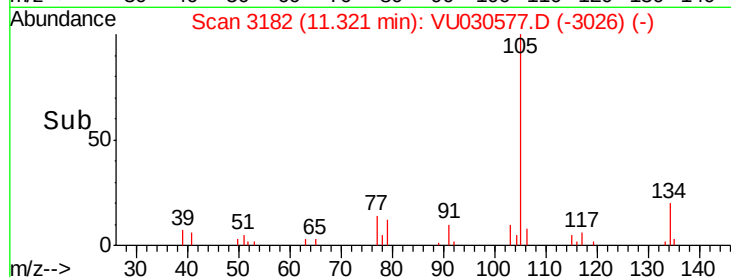
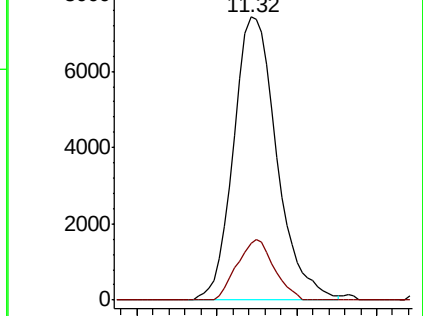
105 100

134 18.2 14.7 22.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#81

p-Isopropyltoluene

Concen: 0.218 ug/l

RT: 11.48 min Scan# 3230

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

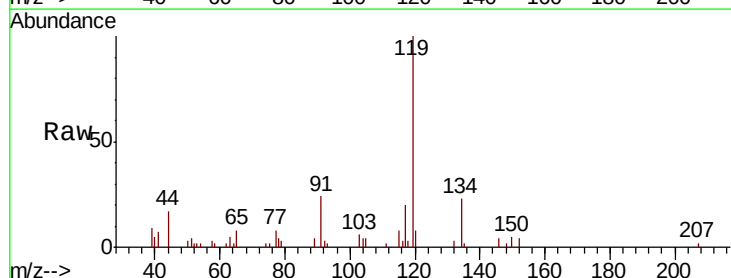
Tgt Ion:119 Resp: 10542

Ion Ratio Lower Upper

119 100

134 25.7 20.6 31.0

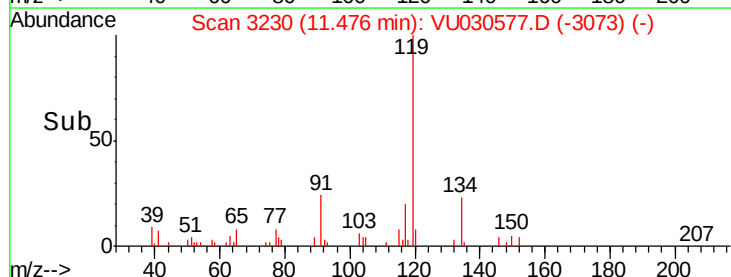
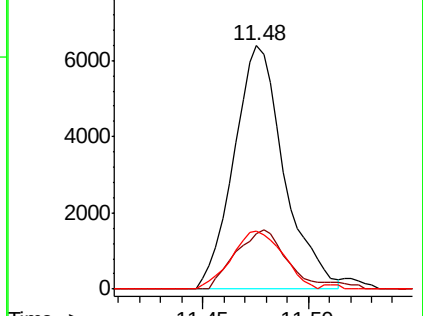
91 24.3 20.4 30.6

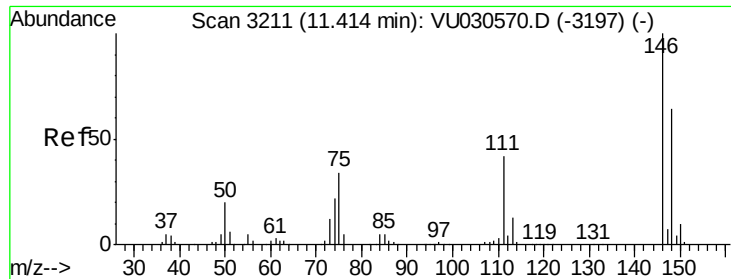


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

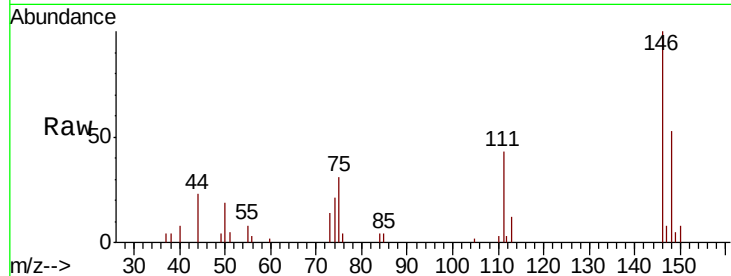




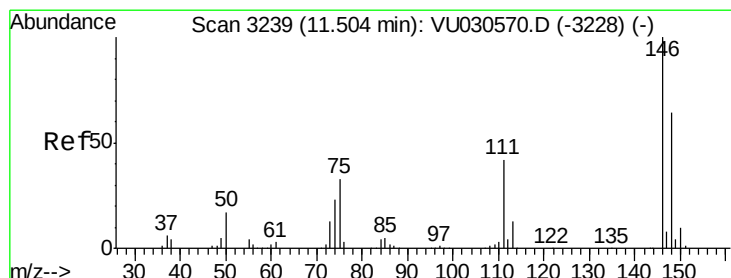
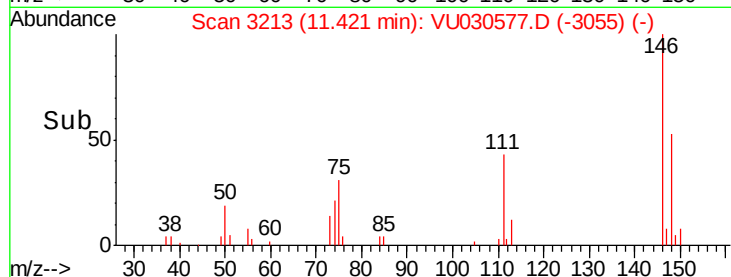
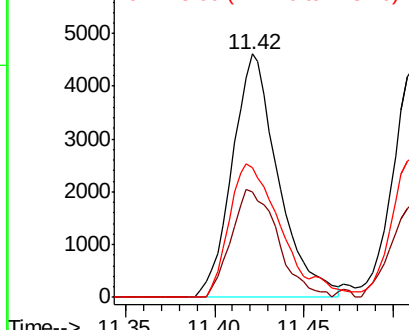
#82  
 1,3-Dichlorobenzene  
 Concen: 0.298 ug/l  
 RT: 11.42 min Scan# 3213  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:146 Resp: 8297  
 Ion Ratio Lower Upper  
 146 100  
 111 44.6 34.0 51.0  
 148 61.9 51.0 76.6

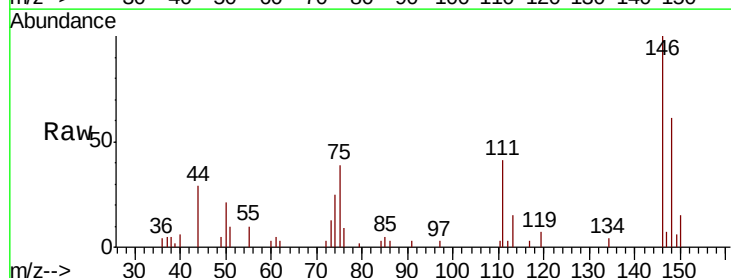


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

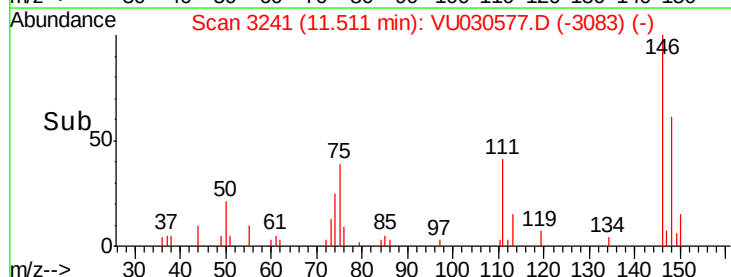
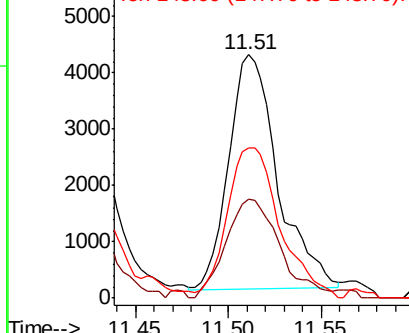


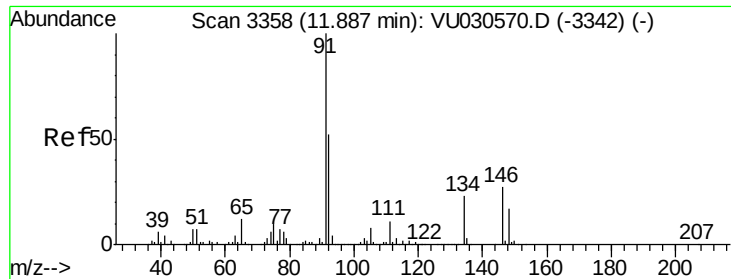
#83  
 1,4-Dichlorobenzene  
 Concen: 0.274 ug/l  
 RT: 11.51 min Scan# 3241  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion:146 Resp: 7646  
 Ion Ratio Lower Upper  
 146 100  
 111 46.7 32.8 49.2  
 148 69.3 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V





#84

n-Butylbenzene

Concen: 0.232 ug/l

RT: 11.89 min Scan# 3360

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

ClientSampled :

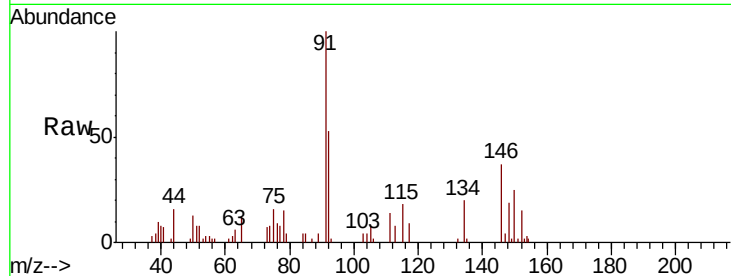
Tot Ion: 91 Resp: 10851

Ion Ratio Lower Upper

91 100

92 53.6 41.7 62.5

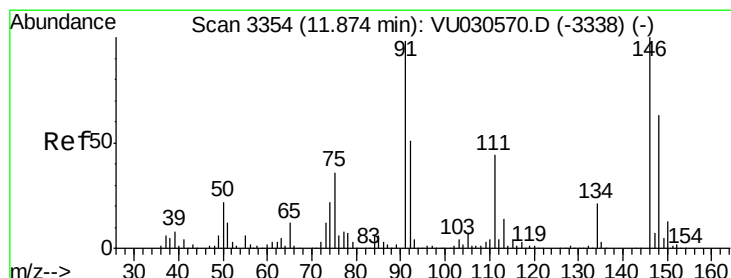
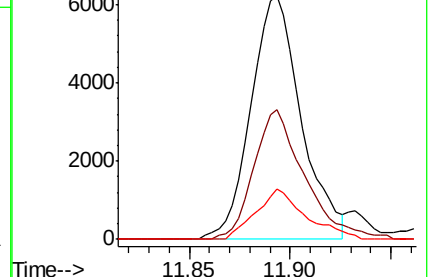
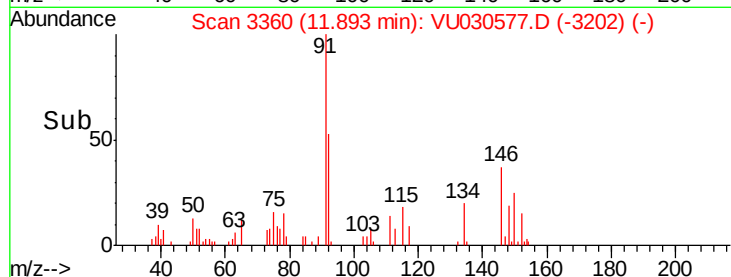
134 20.5 18.3 27.5



Abundance Ion 91.00 (90.70 to 91.70): VU030577.D (-3360) (-)

Ion 92.00 (91.70 to 92.70): VU030577.D (-3360) (-)

Ion 134.00 (133.70 to 134.70): VU030577.D (-3360) (-)



#85

1,2-Dichlorobenzene

Concen: 0.306 ug/l

RT: 11.88 min Scan# 3356

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

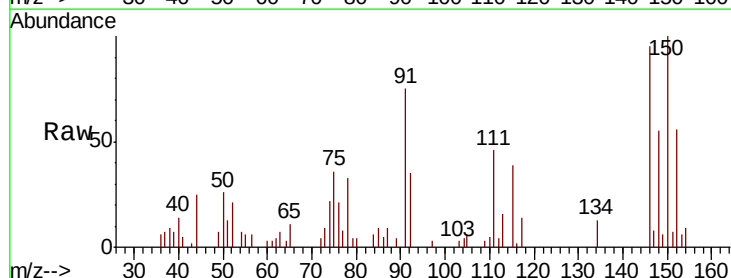
Tgt Ion: 146 Resp: 8024

Ion Ratio Lower Upper

146 100

111 47.5 21.9 65.5

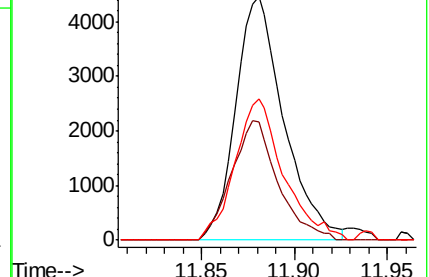
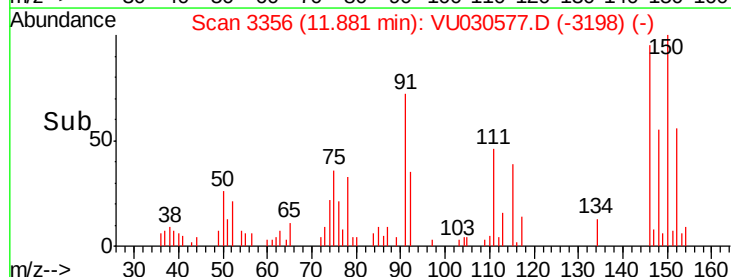
148 58.5 31.5 94.5

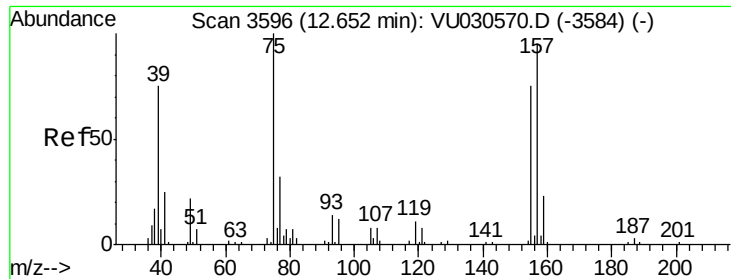


Abundance Ion 146.00 (145.70 to 146.70): VU030577.D (-3356) (-)

Ion 111.00 (110.70 to 111.70): VU030577.D (-3356) (-)

Ion 148.00 (147.70 to 148.70): VU030577.D (-3356) (-)

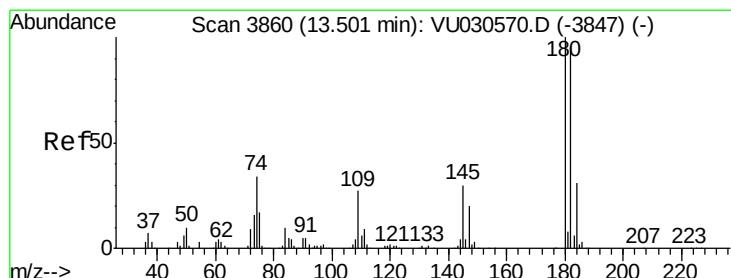
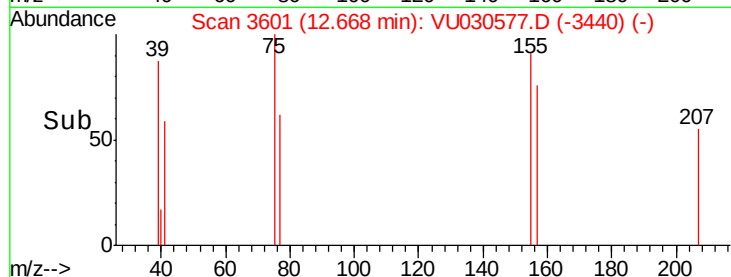
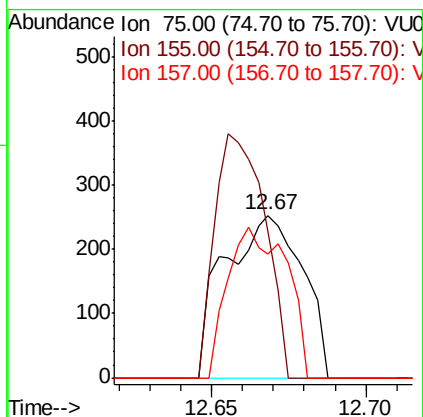
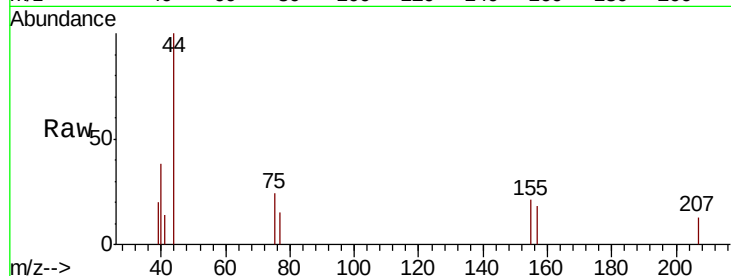




#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.219 ug/l  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.02 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

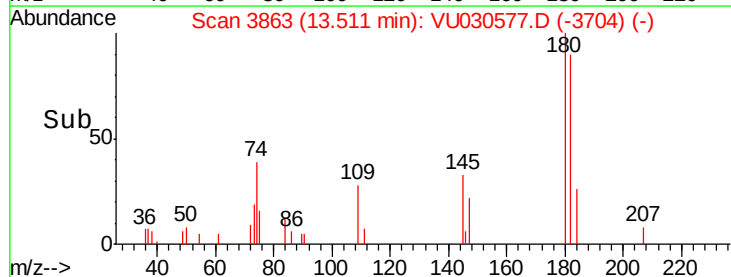
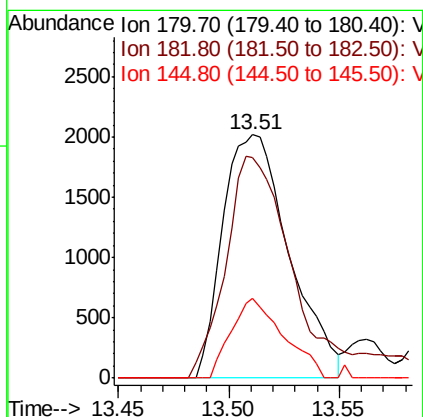
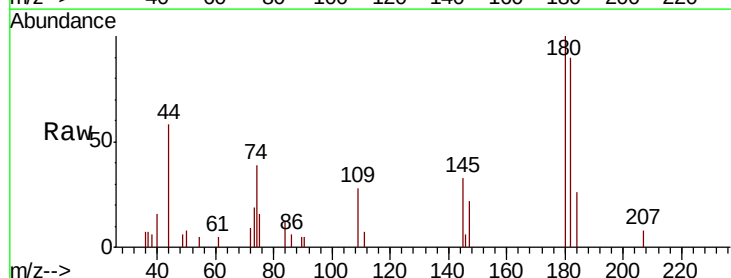
Instrument :  
 MSVOA\_U  
 ClientSampleId :

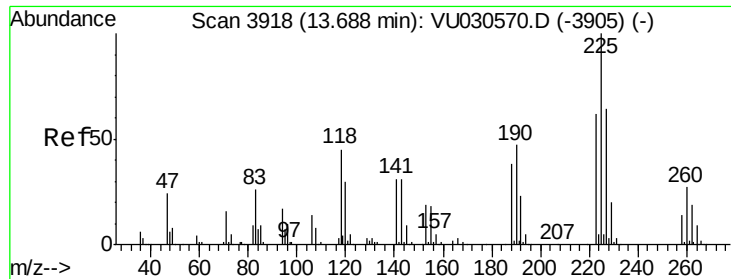
Tot Ion: 75 Resp: 444  
 Ion Ratio Lower Upper  
 75 100  
 155 96.6 59.7 89.5#  
 157 69.6 73.7 110.5#



#87  
 1,2,4-Trichlorobenzene  
 Concen: 0.281 ug/l  
 RT: 13.51 min Scan# 3863  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Tgt Ion: 180 Resp: 4210  
 Ion Ratio Lower Upper  
 180 100  
 182 89.0 76.0 114.0  
 145 25.9 24.3 36.5





#88

Hexachlorobutadiene

Concen: 0.289 ug/l

RT: 13.69 min Scan# 3918

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA\_U

ClientSampleId :

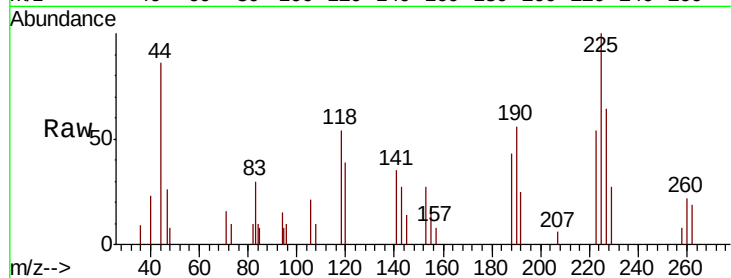
Tot Ion:225 Resp: 2725

Ion Ratio Lower Upper

225 100

223 63.5 50.7 76.1

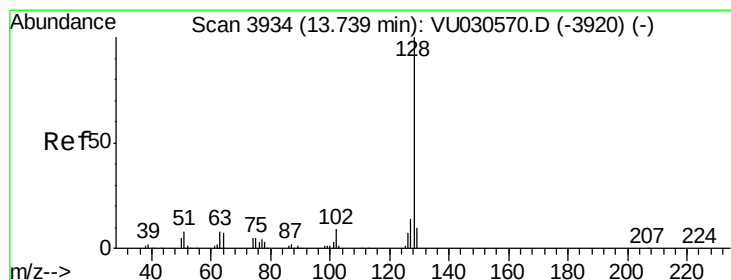
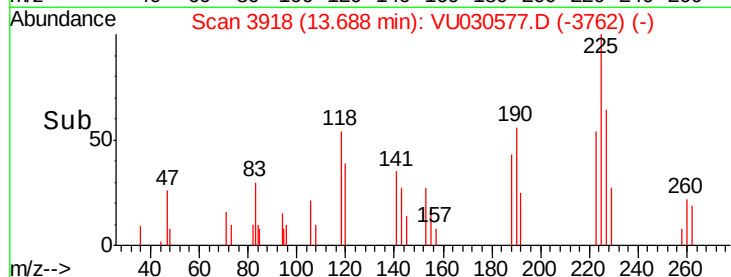
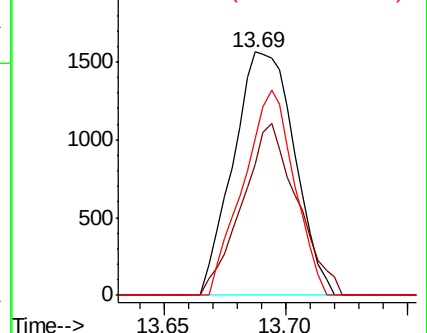
227 69.9 50.8 76.2



Abundance Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V



#89

Naphthalene

Concen: 0.292 ug/l

RT: 13.75 min Scan# 3938

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

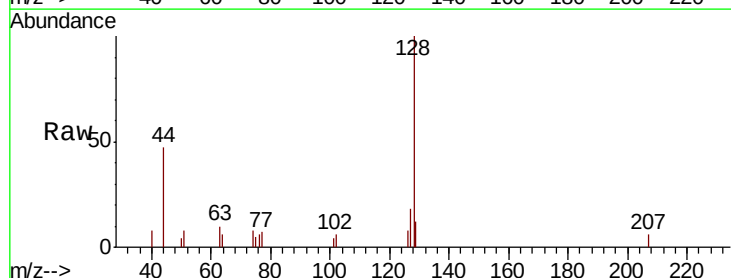
Tgt Ion:128 Resp: 7626

Ion Ratio Lower Upper

128 100

127 10.3 10.4 15.6#

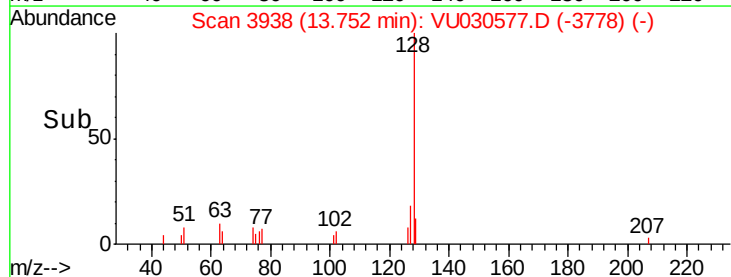
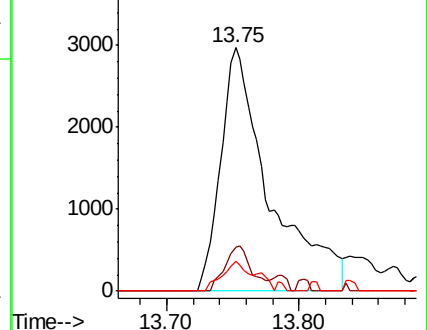
129 6.2 7.8 11.8#

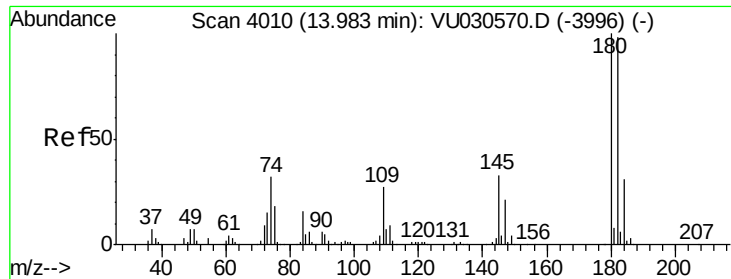


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

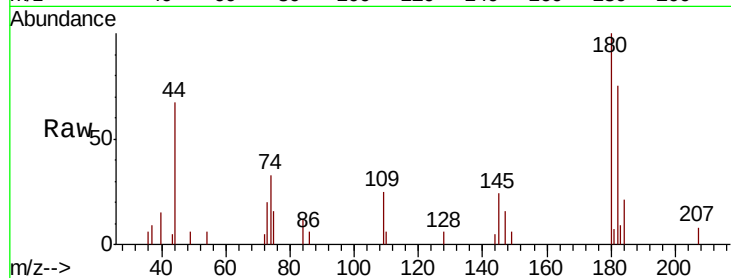




#90  
 1,2,3-Trichlorobenzene  
 Concen: 0.299 ug/l  
 RT: 13.99 min Scan# 4012  
 Delta R.T. 0.01 min  
 Lab File: VU030577.D  
 Acq: 30 Mar 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 89.1  | 76.6  | 114.8 |
| 145     | 26.0  | 25.9  | 38.9  |



Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.70 (181.40 to 182.40): V  
 Ion 144.80 (144.50 to 145.50): V

