Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU021919\

Quantitation Report (Not Reviewed)

Data File : VU029562.D
Acq On : 19 Feb 2019 18:02
Operator : JC/SP
Sample : K1488-14DL 40X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** ESXF0DL

Quant Time: Feb 20 00:13:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 20 00:07:58 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.88 | 114 | 208388 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.09 | 117 | 201297 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152 | 106210 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.40 | 65 | 54149 | 3.87 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 77.40% | | | |
| 7) Chloroethane-d5 | 1.68 | 69 | 48757 | 3.94 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 78.80% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.27 | 63 | 83788 | 2.75 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 55.00%# | | | |
| 20) 2-Butanone-d5 | 4.19 | 46 | 149410 | 51.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 102.64% | | | |
| 24) Chloroform-d | 4.65 | 84 | 90165 | 4.05 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 81.00% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.31 | 65 | 55694 | 4.70 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 94.00% | | | |
| 32) Benzene-d6 | 5.34 | 84 | 206034 | 4.26 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 85.20% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.33 | 67 | 66234 | 4.63 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 92.60% | | | |
| 41) Toluene-d8 | 7.56 | 98 | 194997 | 4.08 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 81.60% | | | |
| 43) trans-1,3-Dichloropropene- | 7.85 | 79 | 24534 | 3.84 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 76.80% | | | |
| 46) 2-Hexanone-d5 | 8.31 | 63 | 148330 | 50.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 100.86% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84 | 58716 | 4.73 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 94.60% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 88911 | 4.54 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 90.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Vinyl chloride | 1.40 | 62 | 191251 | 9.530 | ug/L | 99 |
| 8) Chloroethane | 1.55 | 64 | 18562 | 1.420 | ug/L # | 53 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 738 | 0.041 | ug/L # | 19 |
| 12) 1,1-Dichloroethene | 2.28 | 96 | 1677 | 0.098 | ug/L # | 1 |
| 18) trans-1,2-Dichloroethene | 2.98 | 96 | 1321 | 0.072 | ug/L # | 65 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 133579 | 7.941 | ug/L | 94 |
| 25) Chloroform | 4.67 | 83 | 12432 | 0.451 | ug/L | 93 |
| 27) 1,2-Dichloroethane | 5.34 | 62 | 1006 | 0.063 | ug/L # | 72 |
| 34) Trichloroethene | 6.19 | 95 | 2850 | 0.171 | ug/L | 98 |
| 35) Methylcyclohexane | 6.33 | 83 | 15893 | 0.567 | ug/L # | 21 |
| 37) 1,2-Dichloropropane | 6.33 | 63 | 7220 | 0.487 | ug/L # | 87 |
| 39) cis-1,3-Dichloropropene | 7.22 | 75 | 1736 | 0.074 | ug/L # | 70 |
| 47) Tetrachloroethene | 8.22 | 164 | 15256 | 1.000 | ug/L | 94 |
| 49) Dibromochloromethane | 8.22 | 129 | 13606 | 0.888 | ug/L # | 11 |
| 59) 1,2,3-Trichloropropane | 11.48 | 75 | 10505 | 1.103 | ug/L | 93 |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75 | 919 | 0.414 | ug/L # | 1 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU021919\

Quantitation Report (Not Reviewed)

Data File : VU029562.D
Acq On : 19 Feb 2019 18:02
Operator : JC/SP
Sample : K1488-14DL 40X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
ESXF0DL

Quant Time: Feb 20 00:13:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 20 00:07:58 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

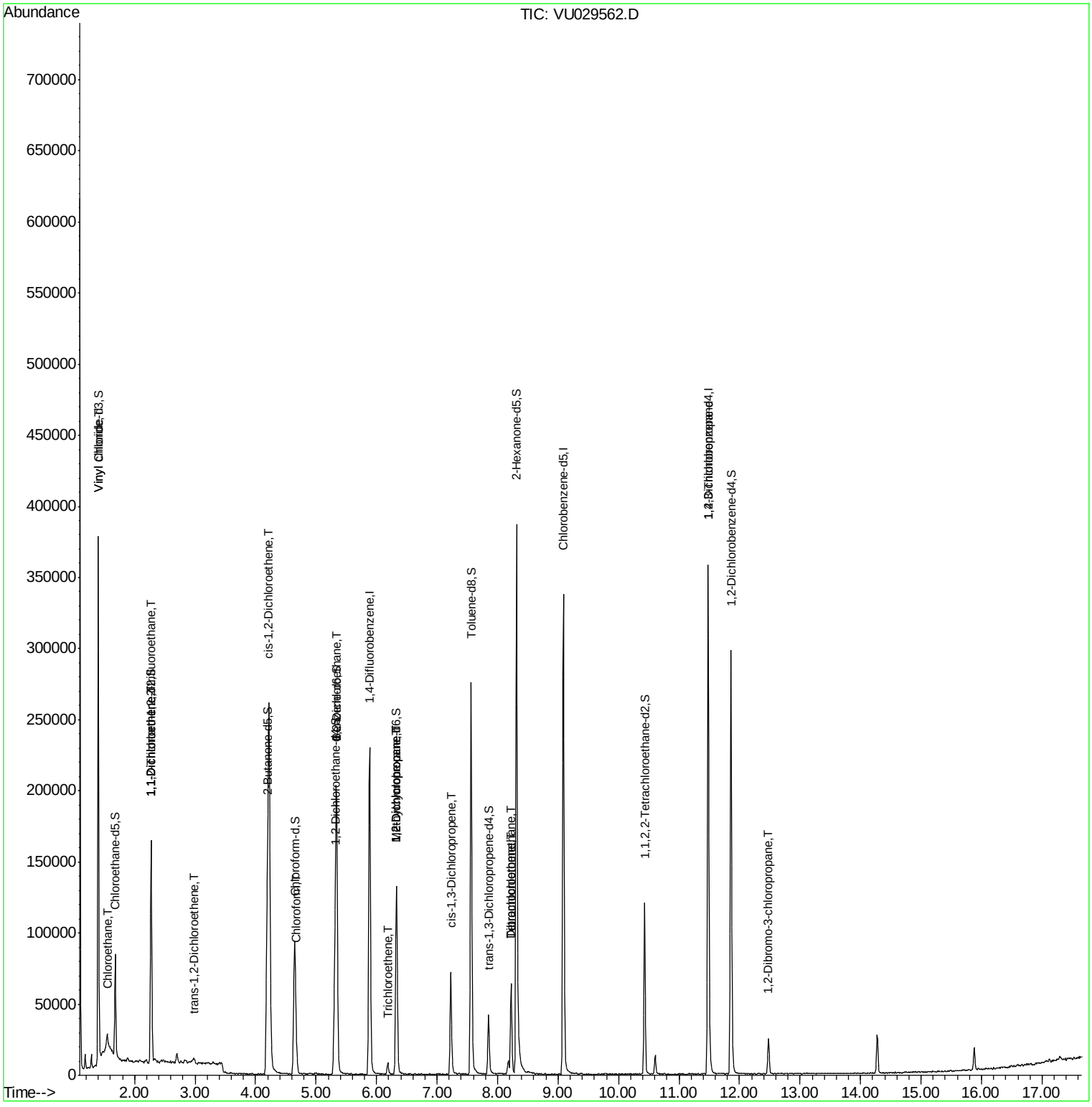
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU021919\

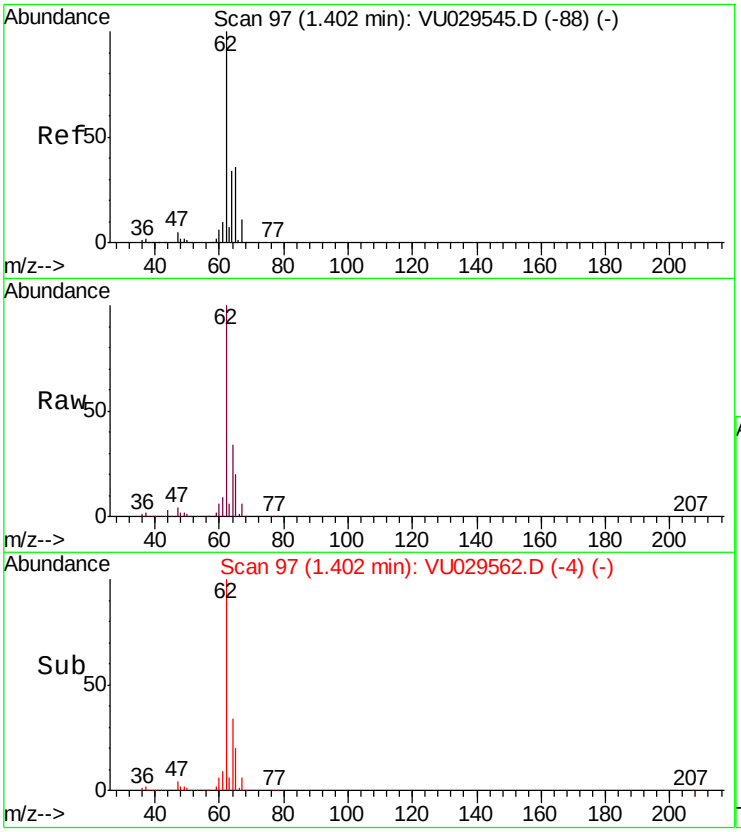
Quantitation Report (Not Reviewed)

Data File : VU029562.D
Acq On : 19 Feb 2019 18:02
Operator : JC/SP
Sample : K1488-14DL 40X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
ESXF0DL

Quant Time: Feb 20 00:13:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 20 00:07:58 2019
Response via : Initial Calibration



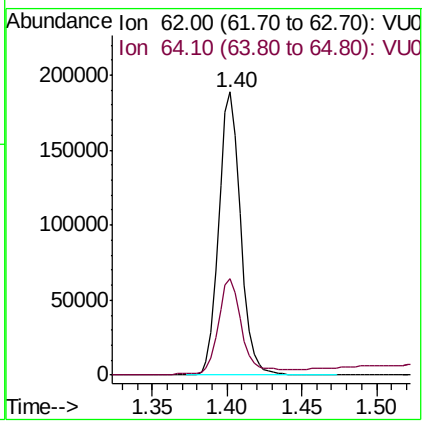


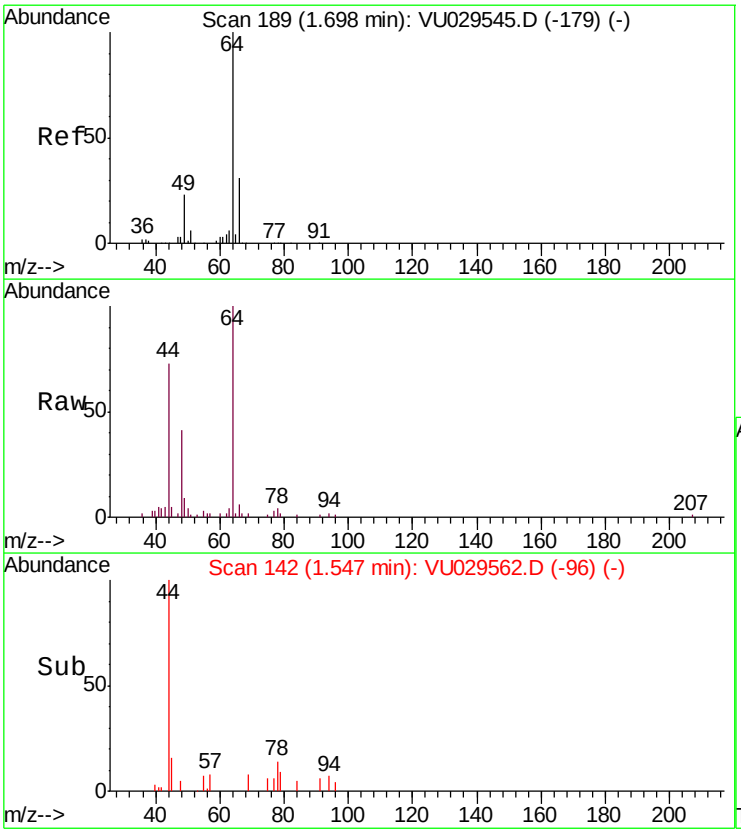

#5
Vinyl chloride
Concen: 9.530 ug/L
RT: 1.40 min Scan# 97
Delta R.T. 0.00 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :**
MSVOA_U
**ClientSampleId :**
ESXF0DL

Tgt Ion: 62 Resp: 191251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.0 | 23.5 | 43.7 |

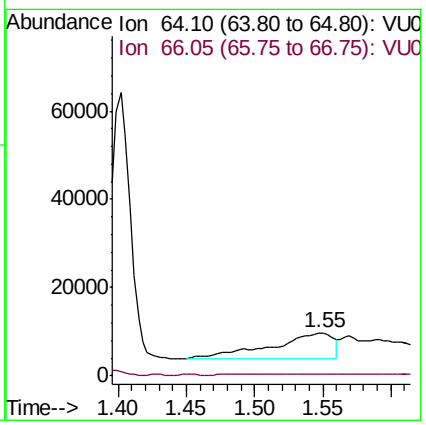


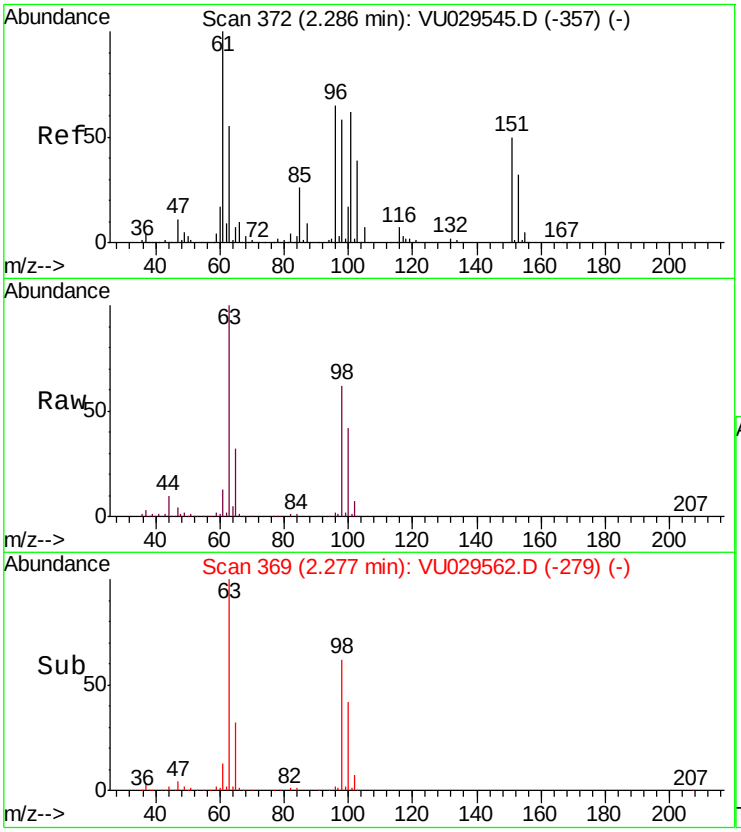




#8
Chloroethane
Concen: 1.420 ug/L
RT: 1.55 min Scan# 142
Delta R.T. -0.15 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 64 Resp: 18562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 5.6 | 22.0 | 40.8# |



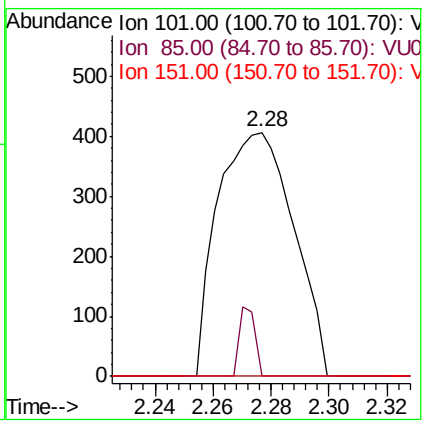


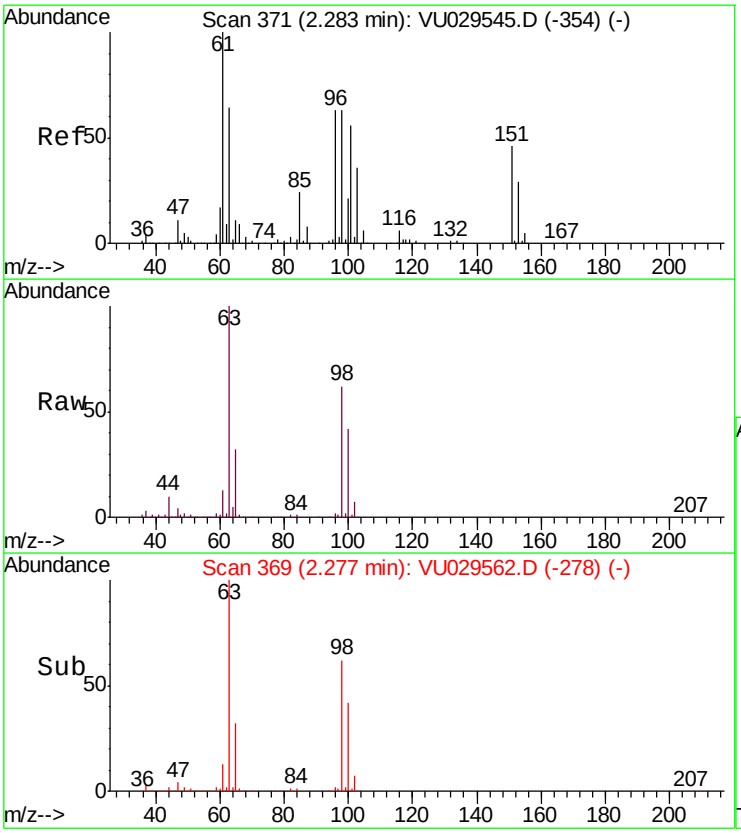

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.041 ug/L
RT: 2.28 min Scan# 369
Delta R.T. -0.01 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :**
MSVOA_U
**ClientSampleId :**
ESXF0DL

Tgt Ion:101 Resp: 738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 5.8 | 35.1 | 52.7# |
| 151 | 0.0 | 67.0 | 100.6# |

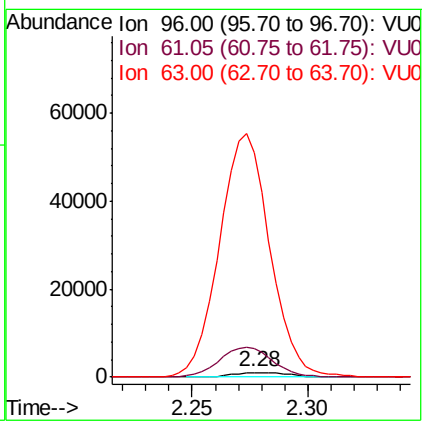


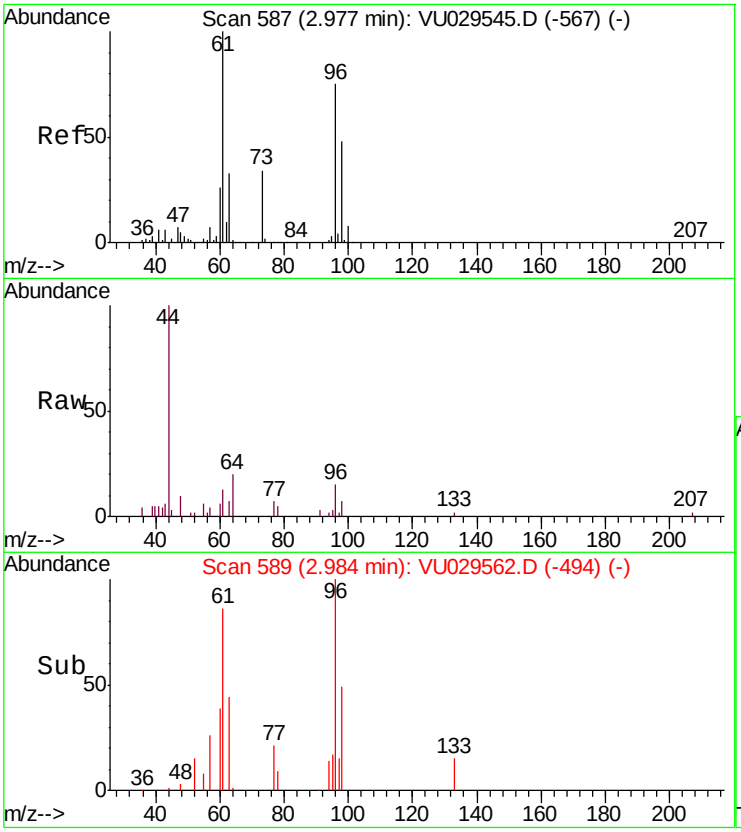




#12
1,1-Dichloroethene
Concen: 0.098 ug/L
RT: 2.28 min Scan# 369
Delta R.T. -0.01 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 96 Resp: 1677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 667.6 | 115.1 | 213.7# |
| 63 | 5270.6 | 83.5 | 155.1# |



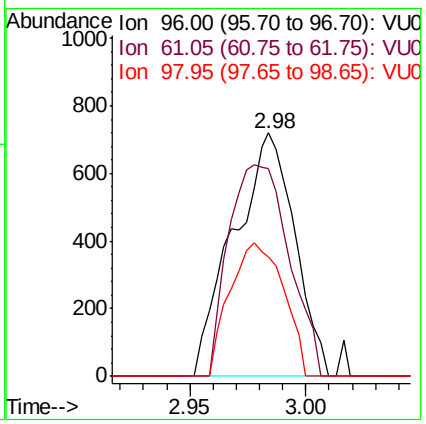


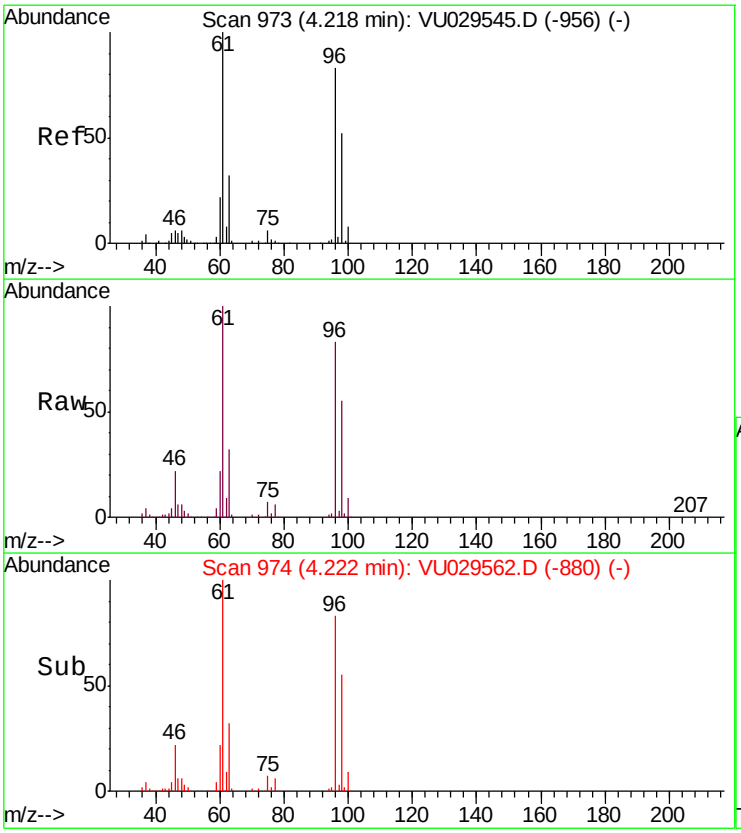

#18
trans-1,2-Dichloroethene
Concen: 0.072 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.01 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :** MSVOA_U
**ClientSampleId :** ESXF0DL

Tgt Ion: 96 Resp: 1321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 85.6 | 95.4 | 177.2# |
| 98 | 49.2 | 45.8 | 85.2 |

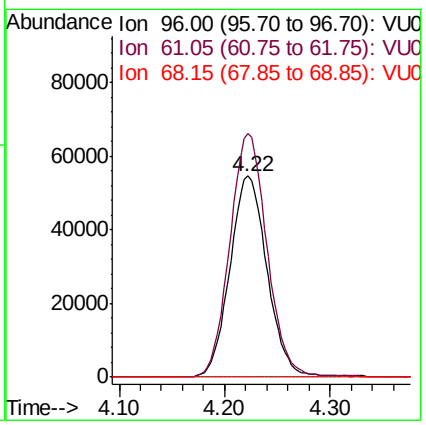


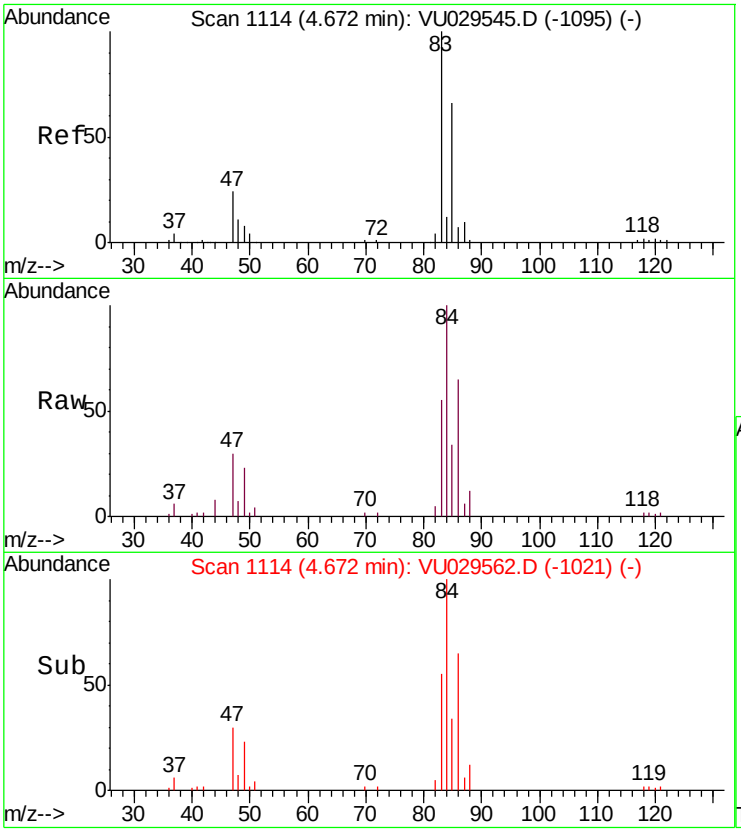




#22
cis-1,2-Dichloroethene
Concen: 7.941 ug/L
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 96 Resp: 133579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.1 | 79.9 | 148.5 |
| 68 | 0.0 | 0.0 | 0.0 |



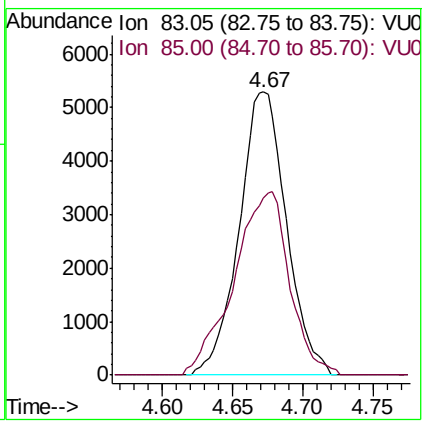


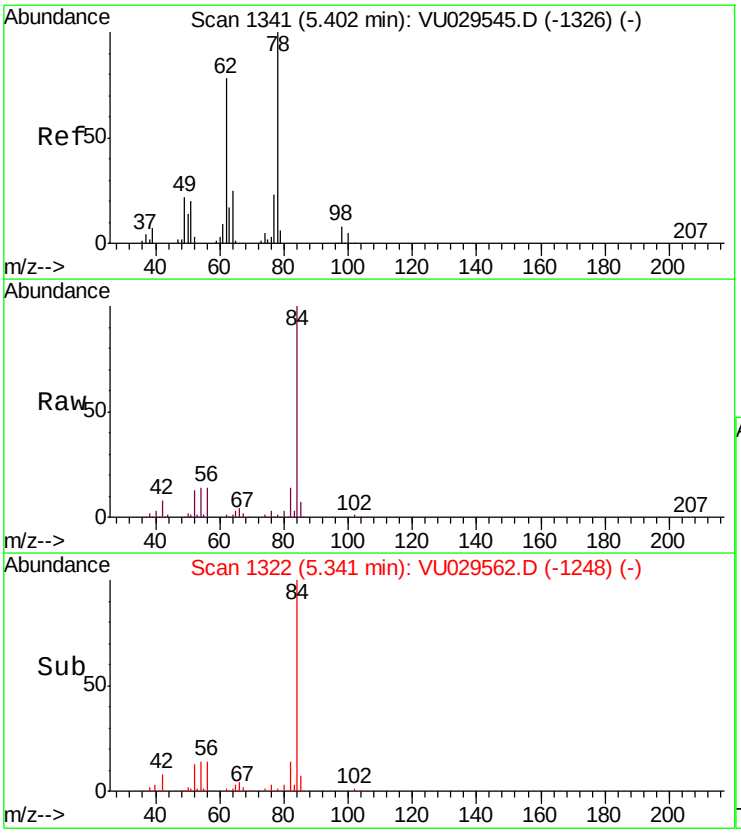

#25
Chloroform
Concen: 0.451 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :** MSVOA_U
**ClientSampleId :** ESXF0DL

Tgt Ion: 83 Resp: 12432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 47.8 | 88.8 |

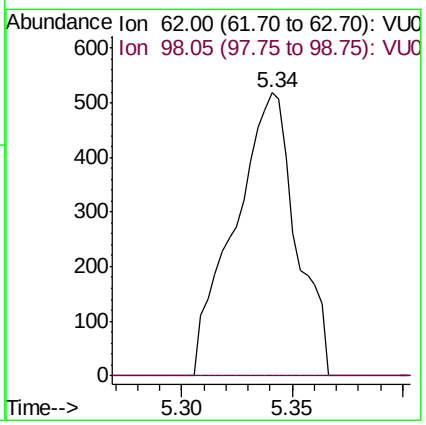


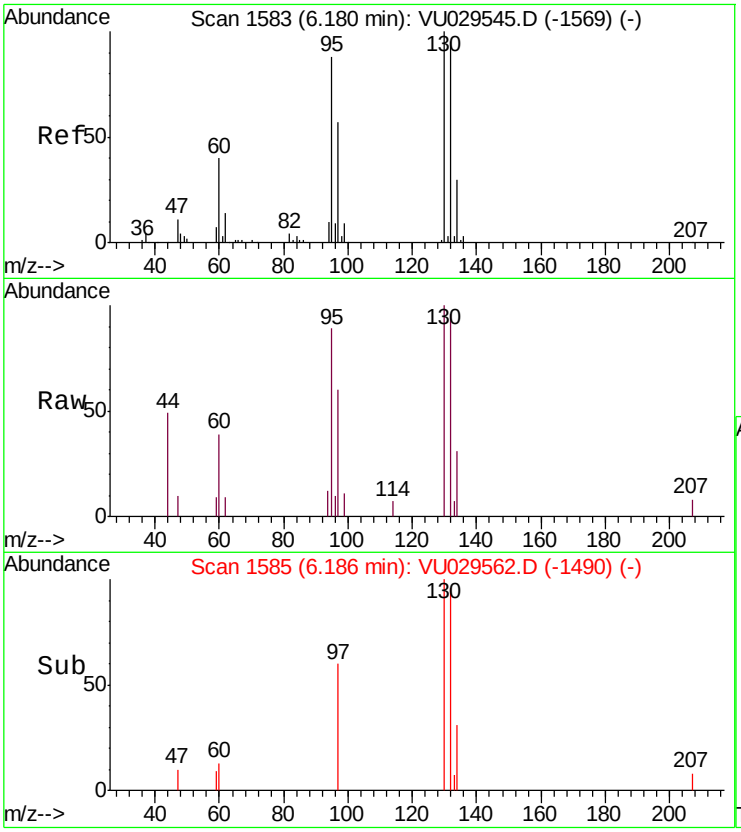




#27
1,2-Dichloroethane
Concen: 0.063 ug/L
RT: 5.34 min Scan# 1322
Delta R.T. -0.06 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 62 Resp: 1006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 8.4 | 12.6# |



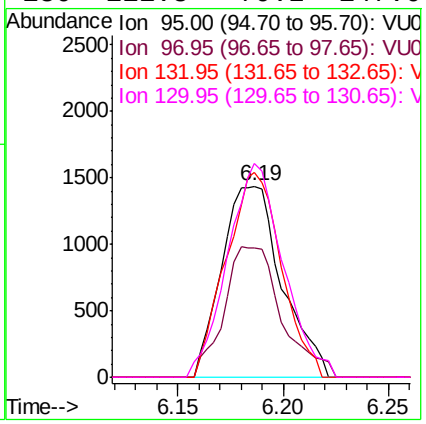


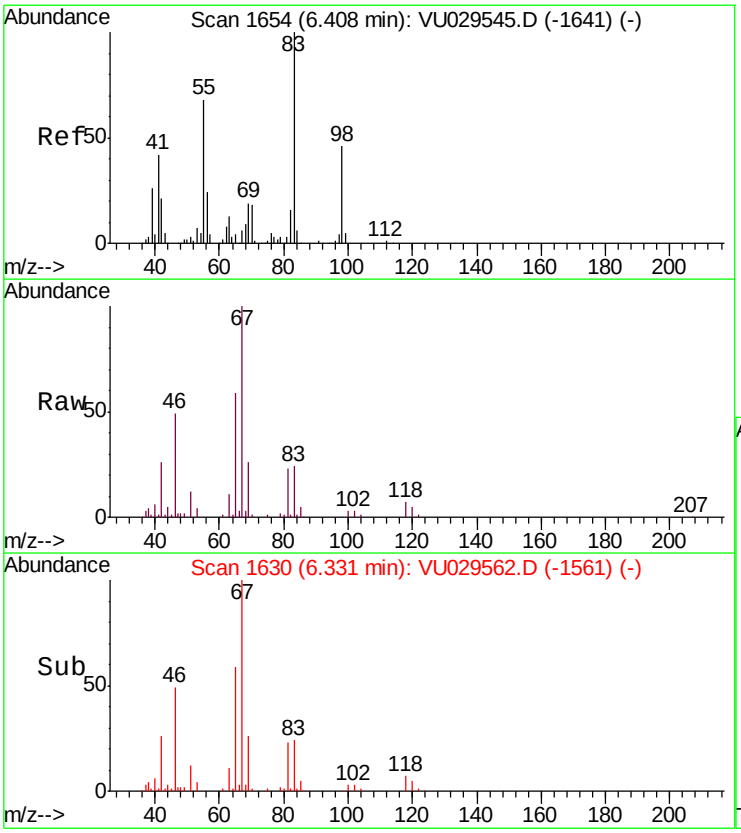

#34
Trichloroethene
Concen: 0.171 ug/L
RT: 6.19 min Scan# 1585
Delta R.T. 0.01 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :** MSVOA_U
**ClientSampleId :** ESXF0DL

Tgt Ion: 95 Resp: 2850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 67.4 | 46.3 | 86.1 |
| 132 | 106.9 | 72.9 | 135.3 |
| 130 | 111.8 | 79.2 | 147.0 |

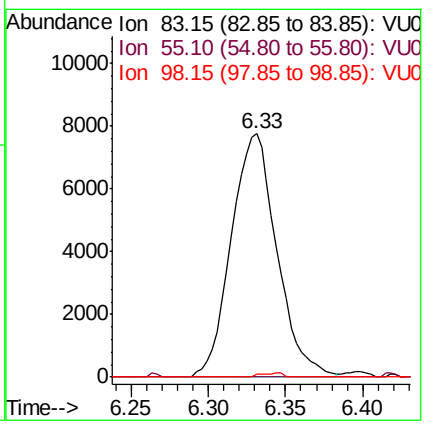


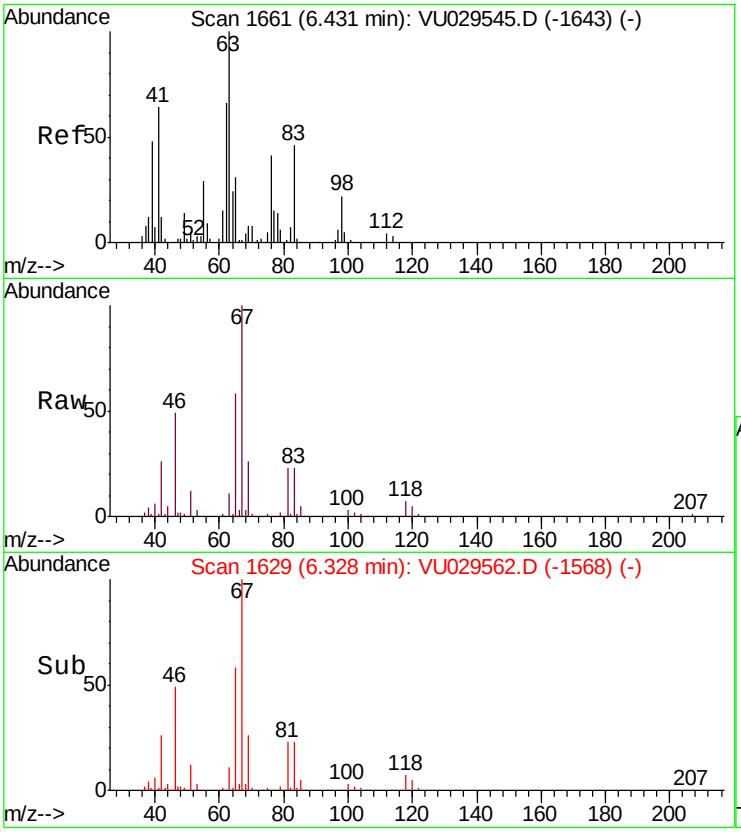




#35
Methylcyclohexane
Concen: 0.567 ug/L
RT: 6.33 min Scan# 1630
Delta R.T. -0.08 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 83 Resp: 15893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 0.3 | 55.9 | 83.9# |
| 98 | 0.8 | 38.6 | 57.8# |



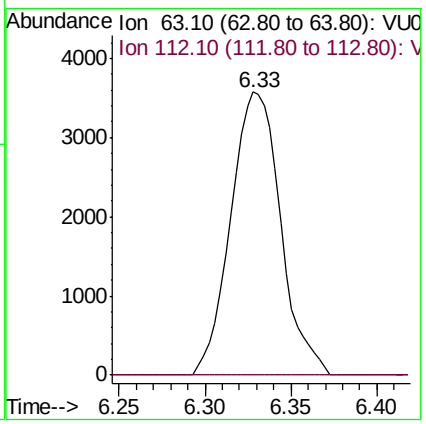


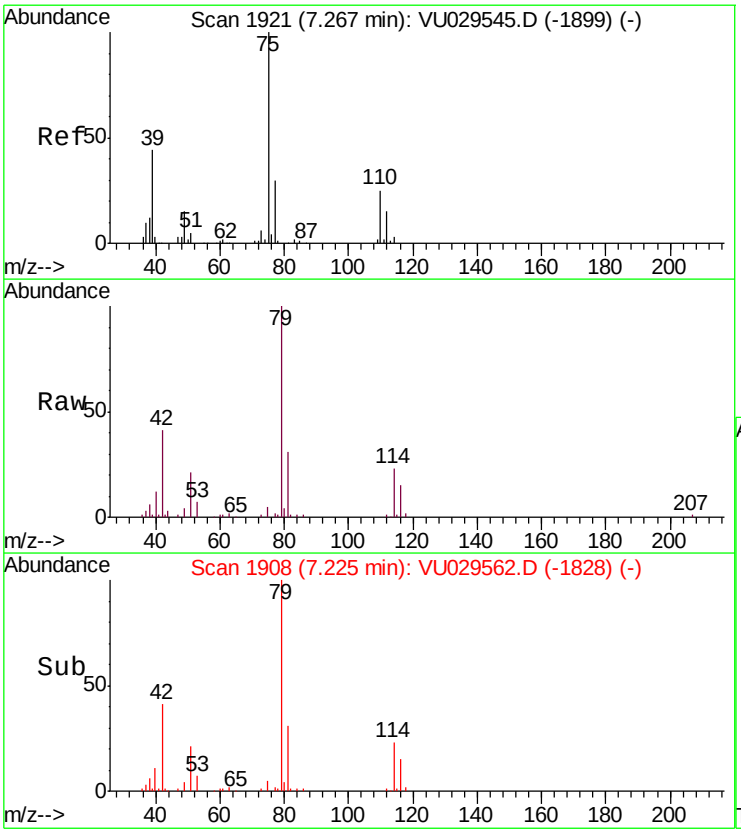

#37
1,2-Dichloropropane
Concen: 0.487 ug/L
RT: 6.33 min Scan# 1629
Delta R.T. -0.10 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :**
MSVOA_U
**ClientSampleId :**
ESXF0DL

Tgt Ion: 63 Resp: 7220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 0.0 | 3.5 | 5.3# |

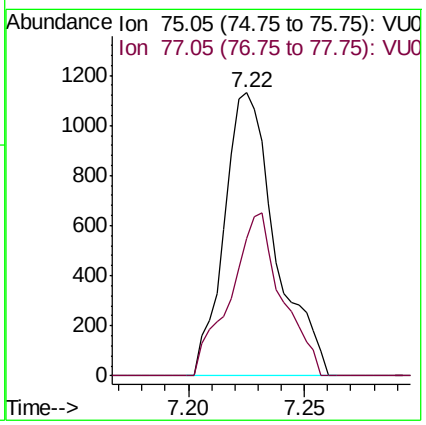


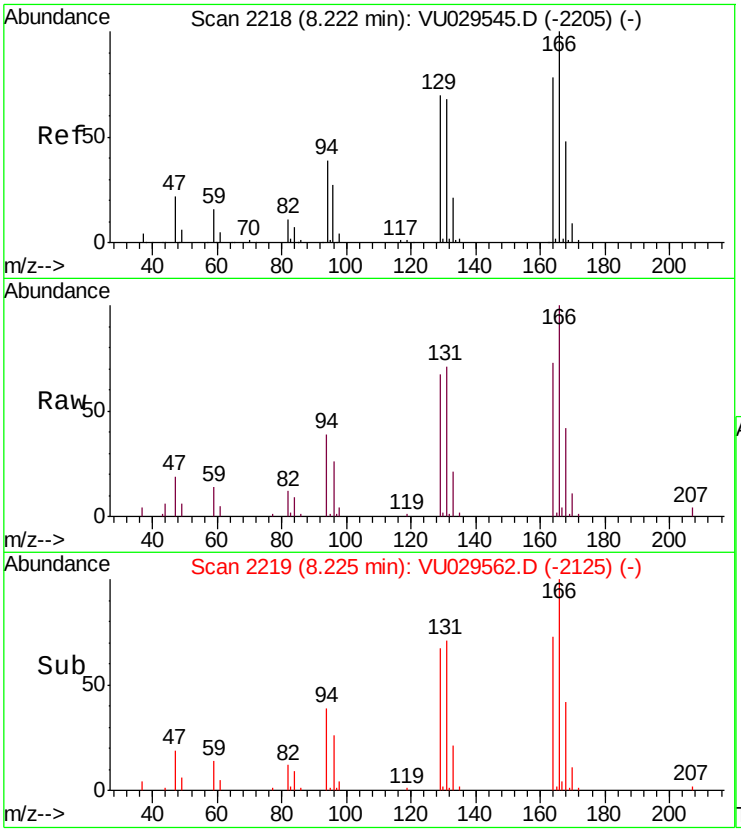




#39
cis-1,3-Dichloropropene
Concen: 0.074 ug/L
RT: 7.22 min Scan# 1908
Delta R.T. -0.04 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 75 Resp: 1736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 48.5 | 22.3 | 41.3# |



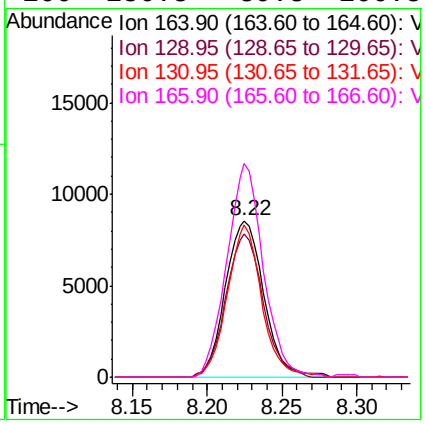


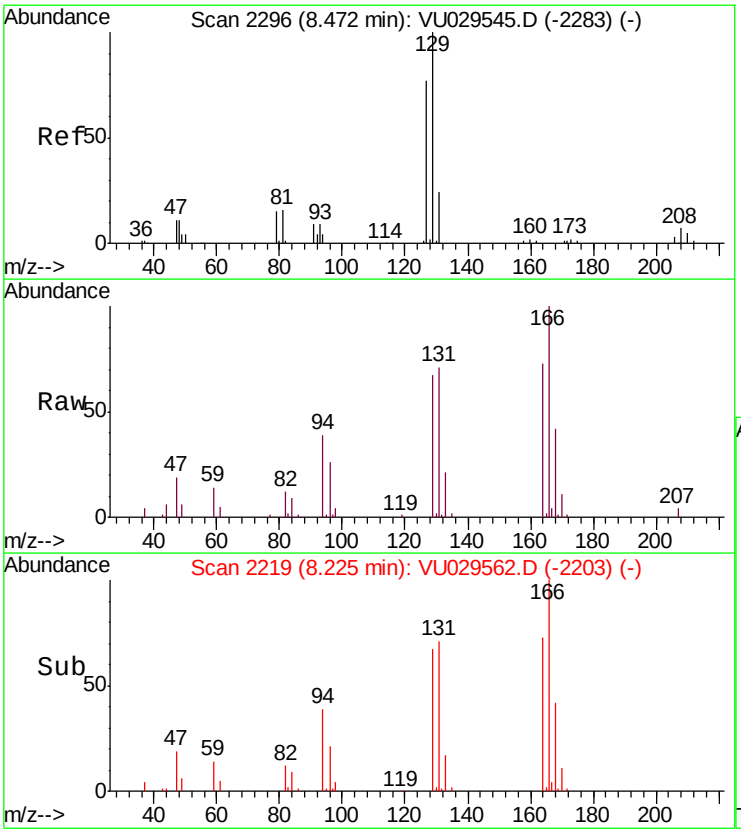

#47
Tetrachloroethene
Concen: 1.000 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :** MSVOA_U
**ClientSampleId :** ESXF0DL

Tgt Ion:164 Resp: 15256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 91.4 | 62.9 | 116.9 |
| 131 | 96.9 | 62.1 | 115.3 |
| 166 | 136.3 | 89.8 | 166.8 |

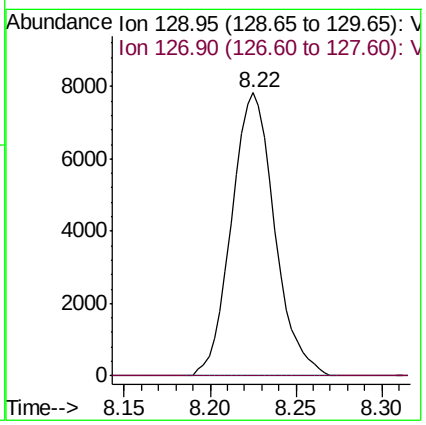


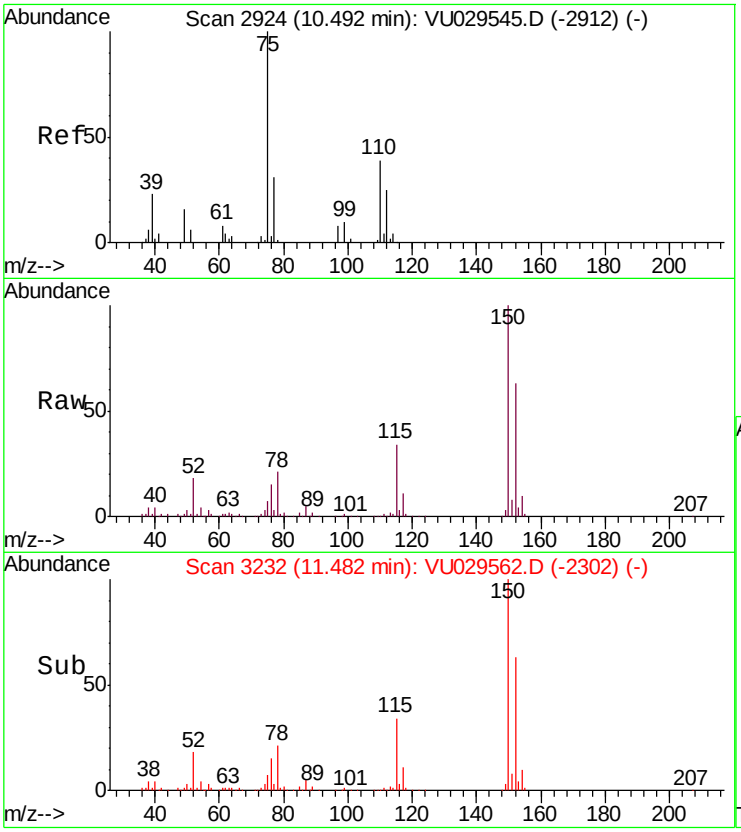




#49
Dibromochloromethane
Concen: 0.888 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. -0.25 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion:129 Resp: 13606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 0.0 | 53.3 | 99.1# |



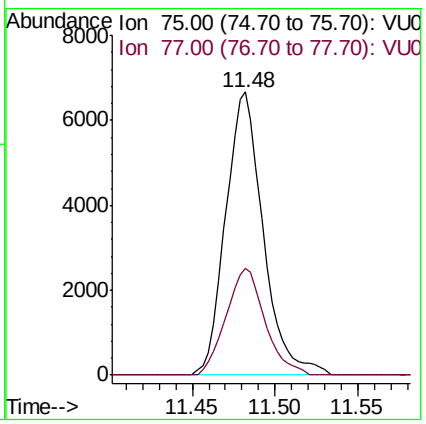


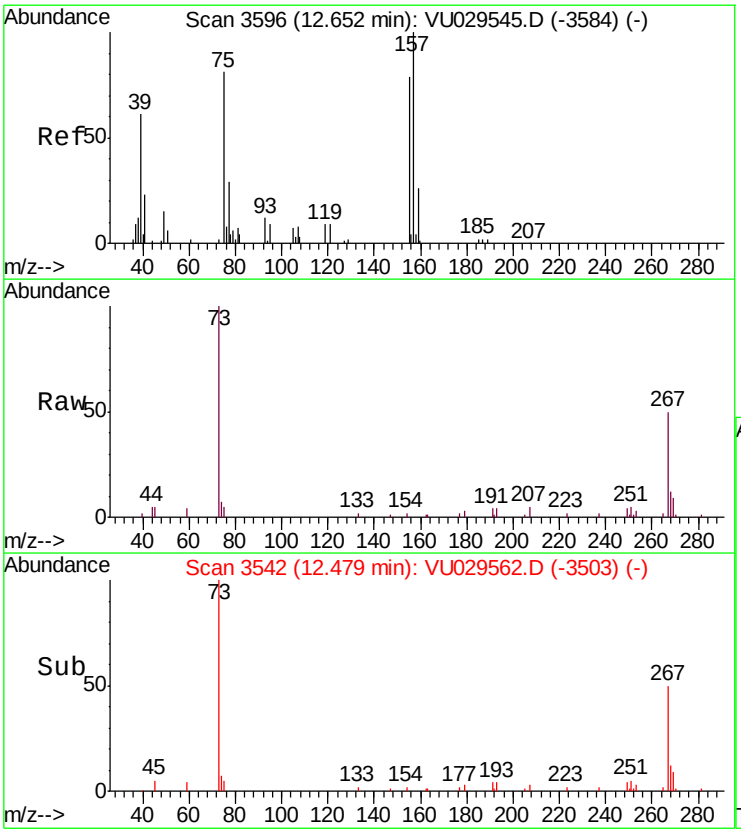

#59
1,2,3-Trichloropropane
Concen: 1.103 ug/L
RT: 11.48 min Scan# 3232
Delta R.T. 0.99 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

**Instrument :**
MSVOA_U
**ClientSampleId :**
ESXF0DL

Tgt Ion: 75 Resp: 10505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 39.1 | 28.2 | 42.2 |




#66
1,2-Dibromo-3-chloropropane
Concen: 0.414 ug/L
RT: 12.48 min Scan# 3542
Delta R.T. -0.17 min
Lab File: VU029562.D
Acq: 19 Feb 2019 18:02

Tgt Ion: 75 Resp: 919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 0.0 | 75.3 | 112.9# |
| 157 | 0.0 | 103.0 | 154.4# |