Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102219\
Data File : VU035358.D
Acq On : 22 Oct 2019 12:26
Operator : JC/SP
Sample : K5461-16
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Oct 23 06:52:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 6.29 | 114 | 299319 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.45 | 117 | 282707 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152 | 100047 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.62 | 65 | 125089 | 6.85 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 137.00%# | | | |
| 7) Chloroethane-d5 | 1.93 | 69 | 105216 | 6.31 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 126.20% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.60 | 63 | 164436 | 4.87 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 97.40% | | | |
| 20) 2-Butanone-d5 | 4.71 | 46 | 240295 | 45.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 91.64% | | | |
| 24) Chloroform-d | 5.11 | 84 | 180393 | 5.41 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 108.20% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.75 | 65 | 105650 | 5.72 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 114.40% | | | |
| 32) Benzene-d6 | 5.77 | 84 | 396384 | 6.13 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 122.60% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.74 | 67 | 127615 | 6.22 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 124.40% | | | |
| 41) Toluene-d8 | 7.93 | 98 | 348372 | 5.63 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 112.60% | | | |
| 43) trans-1,3-Dichloropropene- | 8.22 | 79 | 40889 | 4.10 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 82.00% | | | |
| 46) 2-Hexanone-d5 | 8.69 | 63 | 192801 | 43.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 87.76% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79 | 84 | 101426 | 5.54 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 110.80% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 12.22 | 152 | 103470 | 5.68 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 113.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 1.61 | 50 | 18469 | 0.731 | ug/L # | 79 |
| 5) Vinyl chloride | 1.62 | 62 | 494097 | 19.039 | ug/L | 100 |
| 12) 1,1-Dichloroethene | 2.61 | 96 | 9613 | 0.500 | ug/L # | 1 |
| 13) Acetone | 2.67 | 43 | 10394 | 2.849 | ug/L | 92 |
| 15) Methyl Acetate | 2.99 | 43 | 4323 | 0.476 | ug/L # | 55 |
| 16) Methylene chloride | 3.08 | 84 | 3608 | 0.156 | ug/L | 87 |
| 17) Methyl tert-butyl Ether | 3.43 | 73 | 62809 | 1.214 | ug/L # | 80 |
| 18) trans-1,2-Dichloroethene | 3.39 | 96 | 37909 | 1.827 | ug/L | 98 |
| 19) 1,1-Dichloroethane | 3.92 | 63 | 73398 | 1.956 | ug/L | 99 |
| 21) 2-Butanone | 4.79 | 43 | 10519 | 1.769 | ug/L | 95 |
| 22) cis-1,2-Dichloroethene | 4.72 | 96 | 2342600 | 102.129 | ug/L | 99 |
| 25) Chloroform | 5.14 | 83 | 18802 | 0.457 | ug/L | 94 |
| 33) Benzene | 5.82 | 78 | 45429 | 0.546 | ug/L | 100 |
| 34) Trichloroethene | 6.58 | 95 | 1548941 | 69.263 | ug/L | 97 |
| 35) Methylcyclohexane | 6.74 | 83 | 30374 | 0.813 | ug/L # | 19 |
| 39) cis-1,3-Dichloropropene | 7.61 | 75 | 2810 | 0.080 | ug/L # | 39 |
| 42) Toluene | 8.01 | 91 | 13652 | 0.149 | ug/L | 94 |

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102219\
Data File : VU035358.D
Acq On : 22 Oct 2019 12:26
Operator : JC/SP
Sample : K5461-16
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Oct 23 06:52:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) Tetrachloroethene | 8.58 | 164 | 15518 | 0.833 | ug/L | | 96 |
| 48) 2-Hexanone | 8.74 | 43 | 11096 | 1.110 | ug/L | # | 42 |
| 49) Dibromochloromethane | 8.58 | 129 | 14254 | 0.717 | ug/L | # | 11 |
| 59) 1,2,3-Trichloropropane | 11.84 | 75 | 11876 | 0.807 | ug/L | # | 86 |

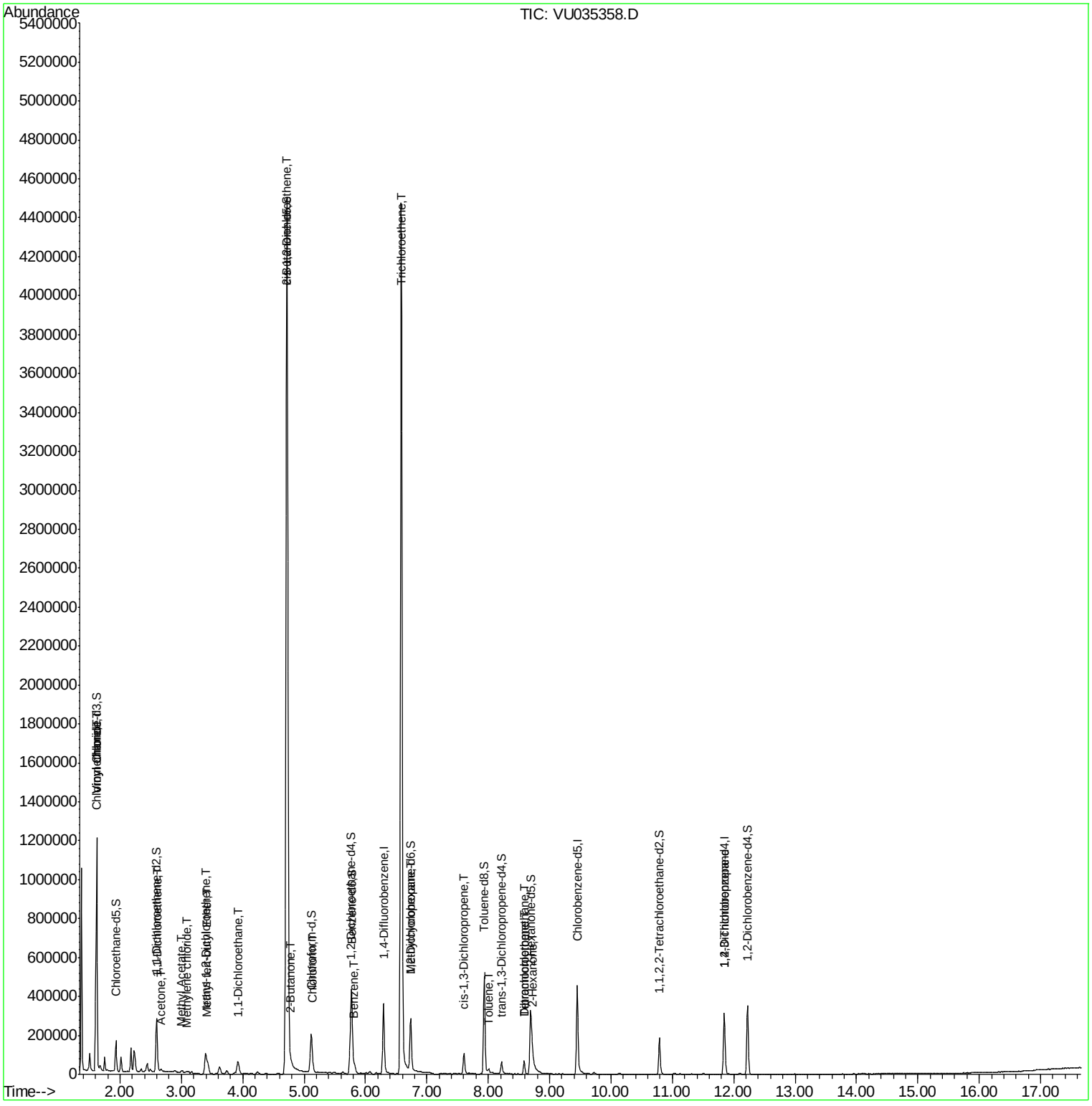
(#) = qualifier out of range (m) = manual integration (+) = signals summed

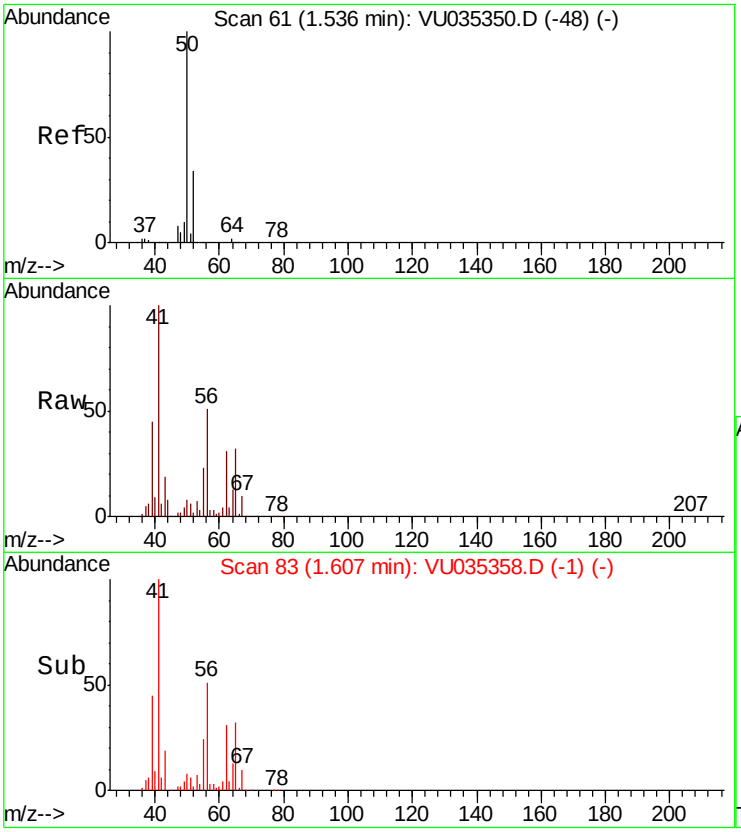
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102219\
Data File : VU035358.D
Acq On : 22 Oct 2019 12:26
Operator : JC/SP
Sample : K5461-16
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Oct 23 06:52:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration



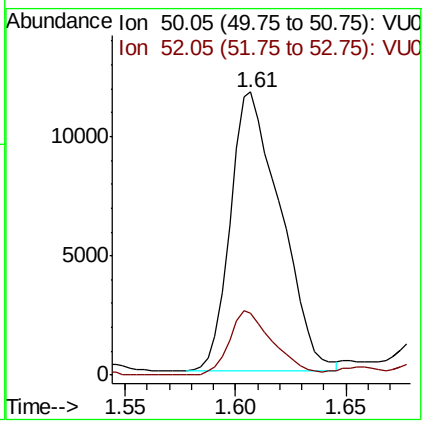


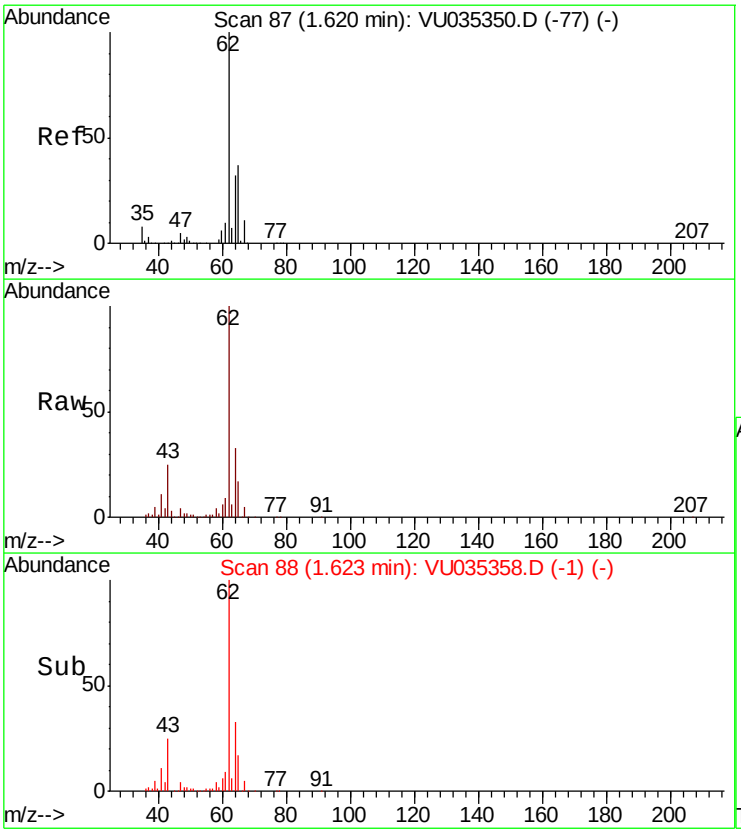

#3
Chloromethane
Concen: 0.731 ug/L
RT: 1.61 min Scan# 83
Delta R.T. 0.07 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 50 Resp: 18469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 21.7 | 23.5 | 43.7# |

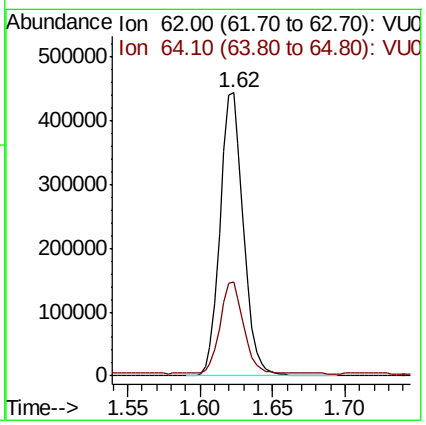


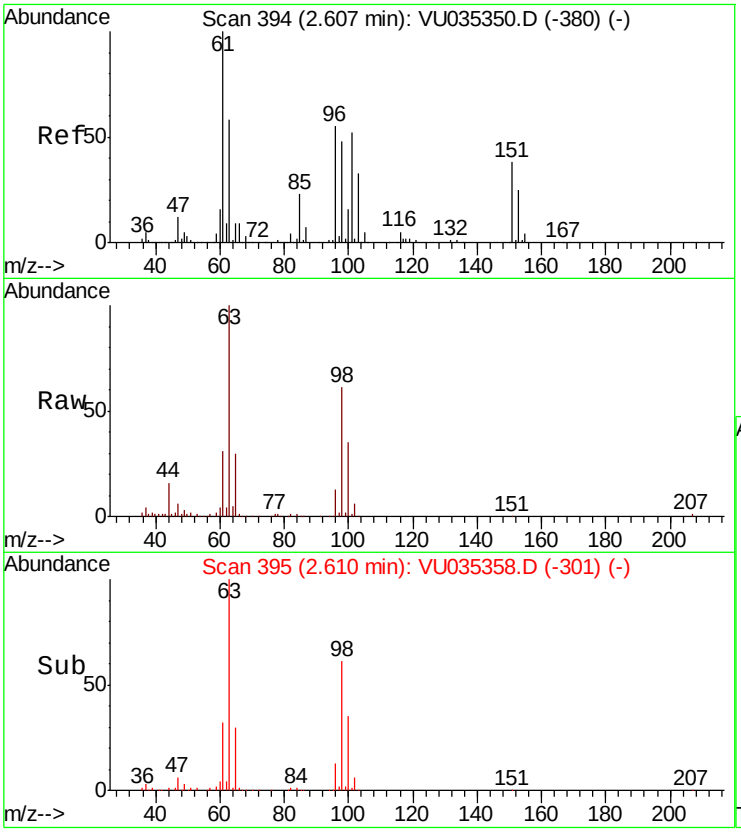




#5
Vinyl chloride
Concen: 19.039 ug/L
RT: 1.62 min Scan# 88
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 62 Resp: 494097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 22.9 | 42.5 |



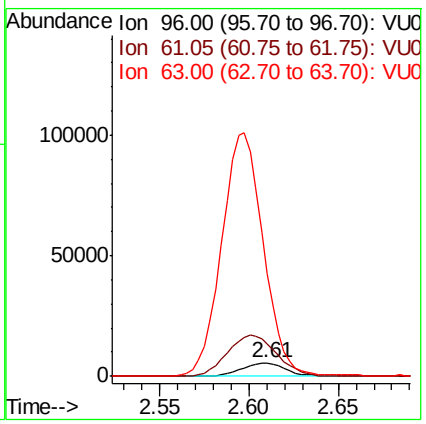


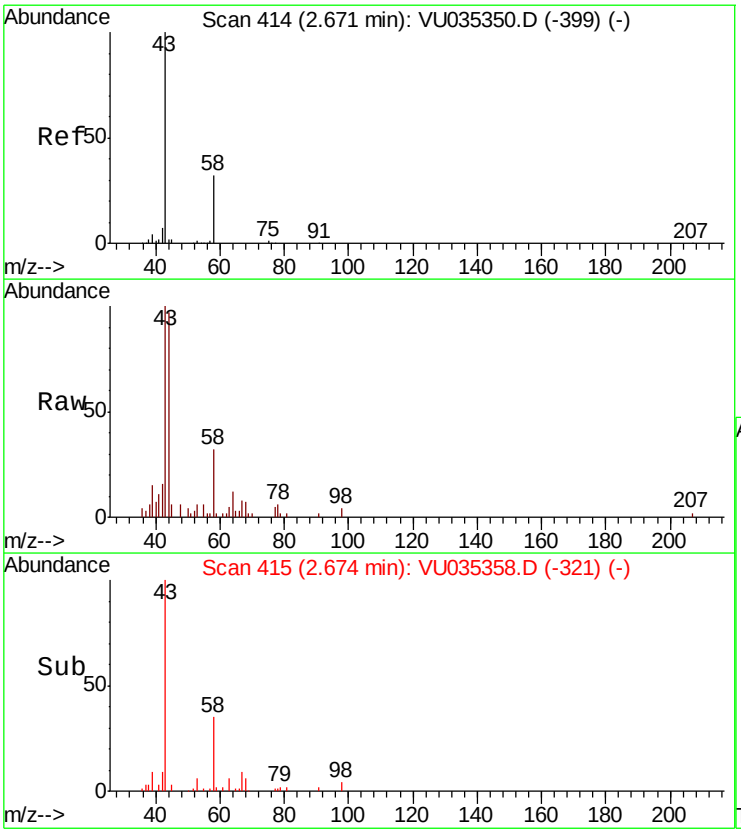

#12
1,1-Dichloroethene
Concen: 0.500 ug/L
RT: 2.61 min Scan# 395
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 96 Resp: 9613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 241.6 | 120.6 | 224.0# |
| 63 | 767.2 | 86.8 | 161.2# |

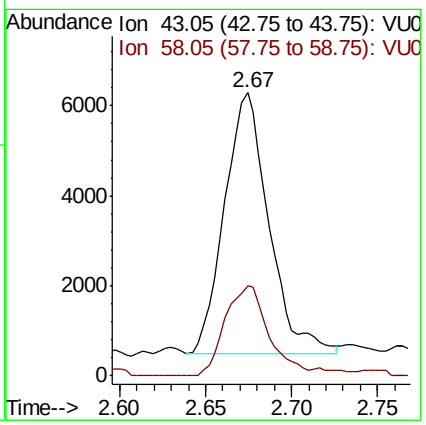


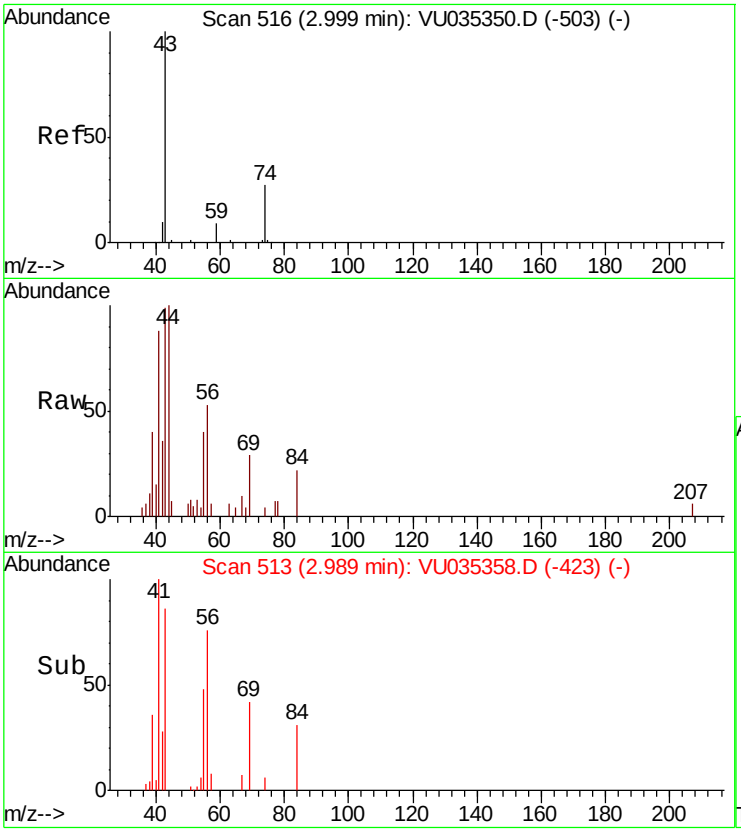




#13
Acetone
Concen: 2.849 ug/L
RT: 2.67 min Scan# 415
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 43 Resp: 10394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.0 | 0.0 | 61.8 |



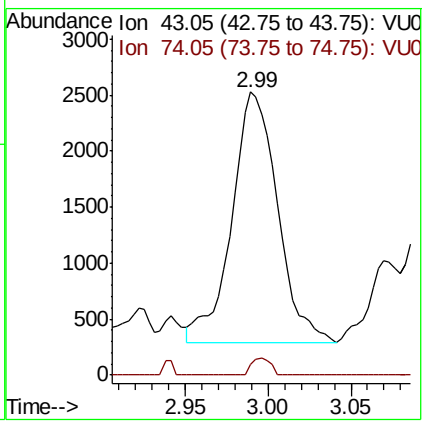


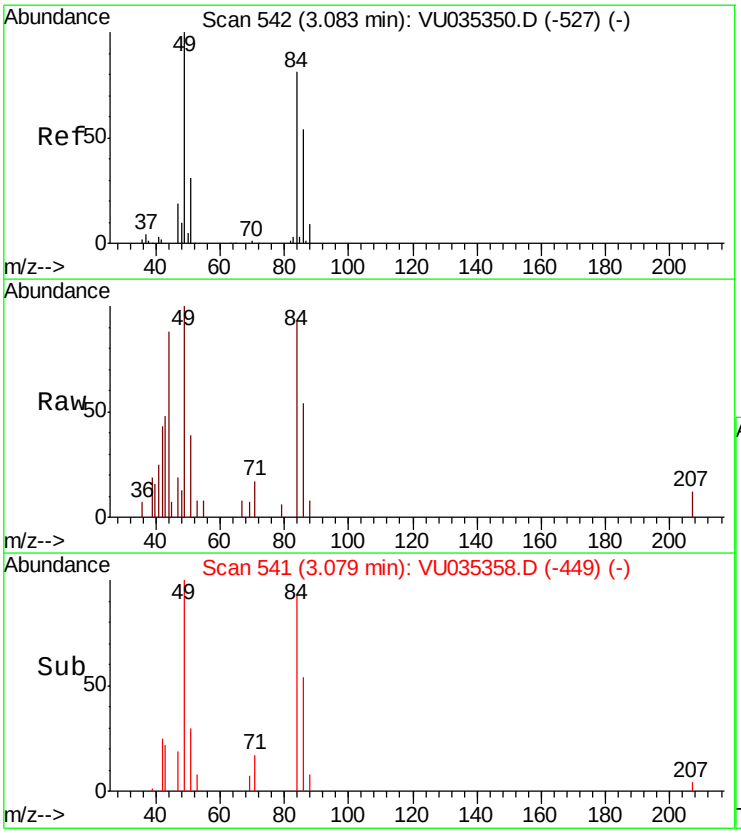

#15
Methyl Acetate
Concen: 0.476 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.01 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 43 Resp: 4323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 2.8 | 20.3 | 30.5# |

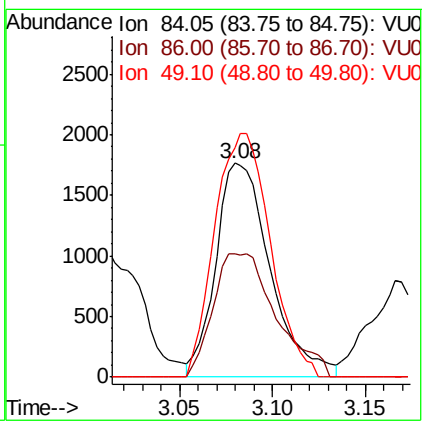


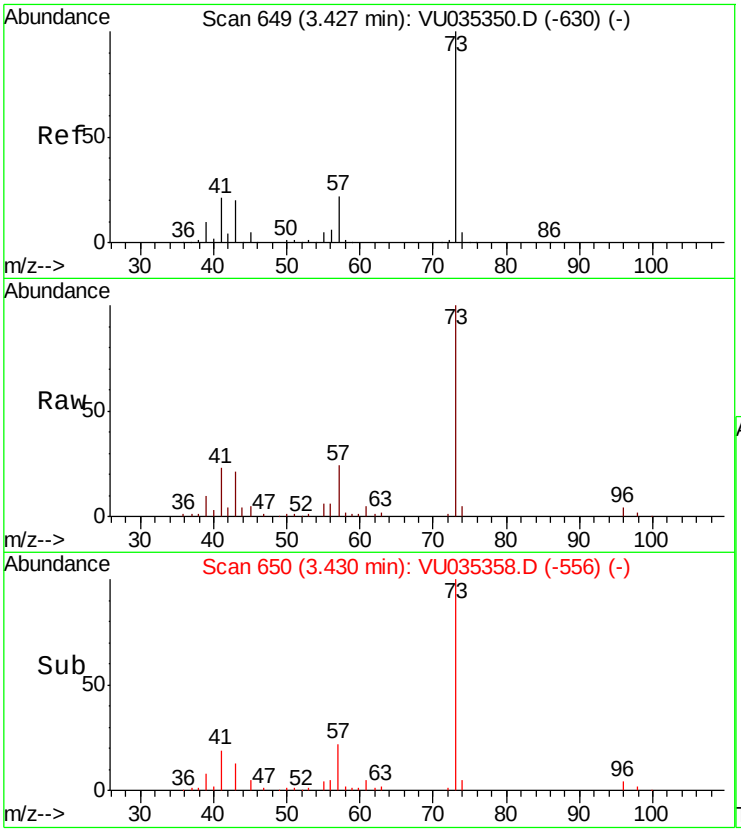




#16
Methylene chloride
Concen: 0.156 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 84 Resp: 3608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 57.8 | 45.4 | 84.2 |
| 49 | 107.0 | 86.8 | 161.2 |



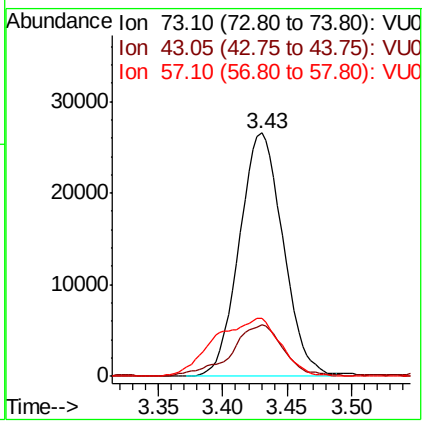


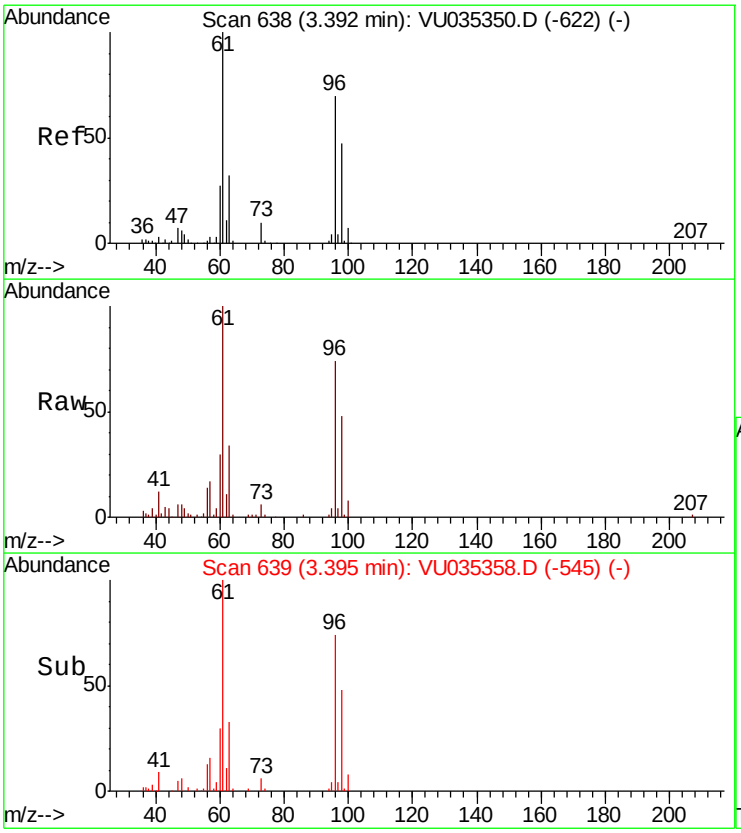

#17
Methyl tert-butyl Ether
Concen: 1.214 ug/L
RT: 3.43 min Scan# 650
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 73 Resp: 62809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 25.2 | 16.0 | 24.0# |
| 57 | 35.5 | 17.4 | 26.2# |

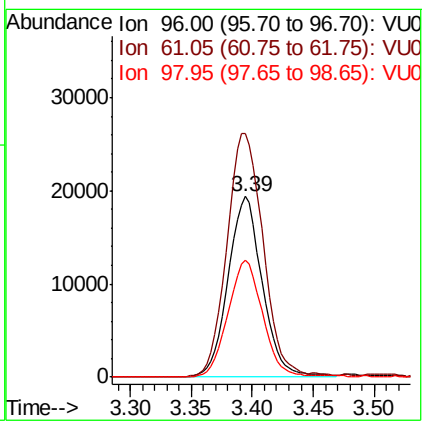


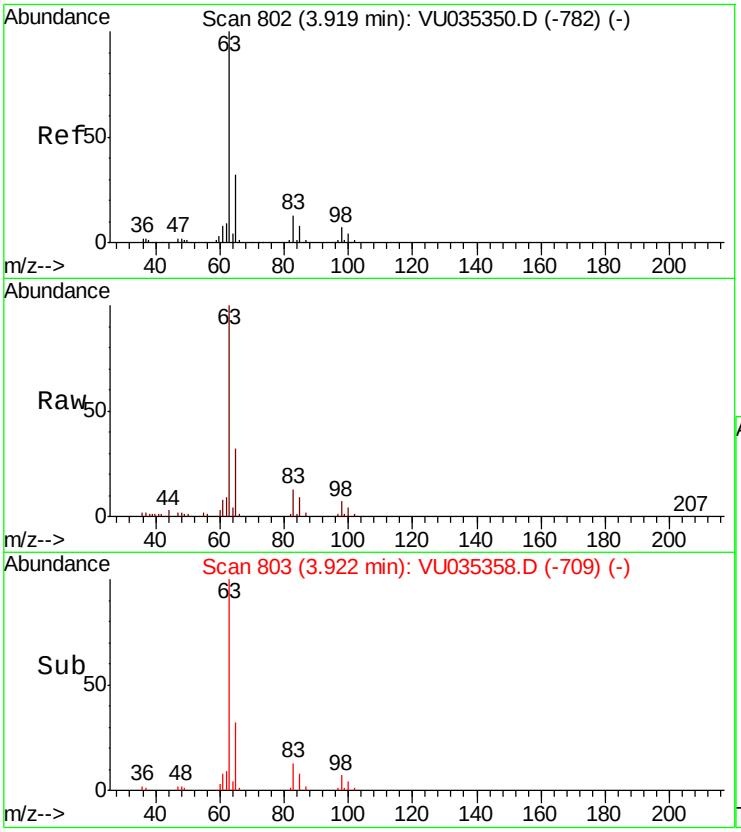




#18
trans-1,2-Dichloroethene
Concen: 1.827 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 96 Resp: 37909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.0 | 93.0 | 172.6 |
| 98 | 65.0 | 43.7 | 81.1 |



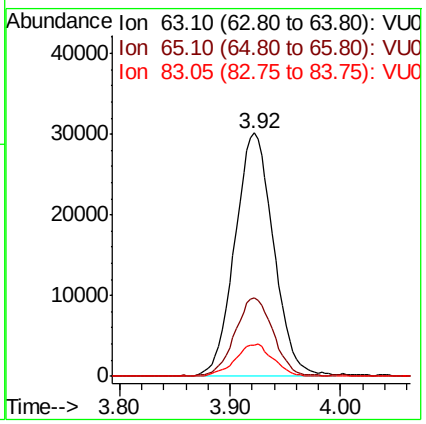


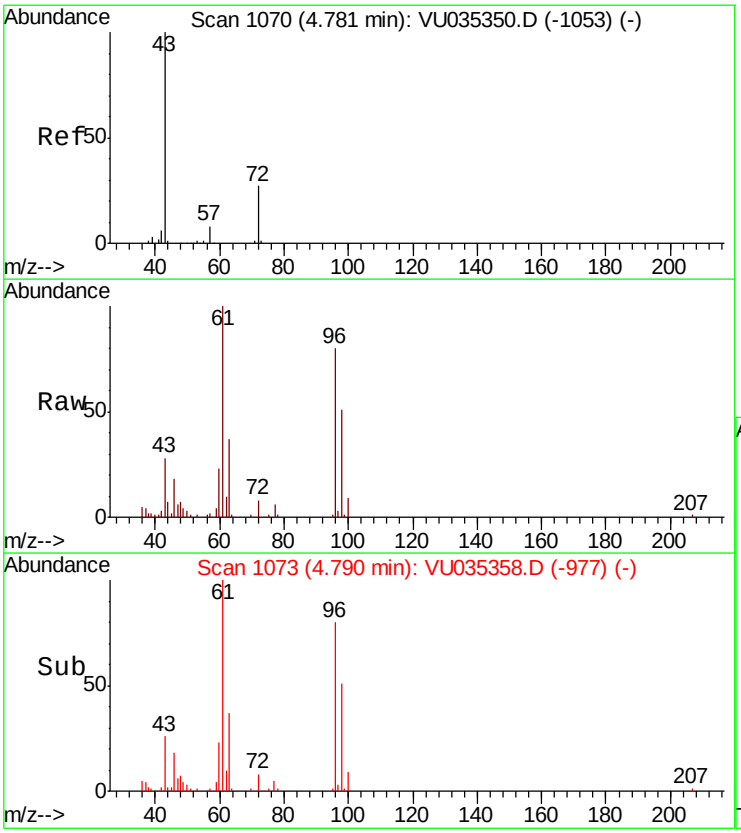

#19
1,1-Dichloroethane
Concen: 1.956 ug/L
RT: 3.92 min Scan# 803
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 63 Resp: 73398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.2 | 22.4 | 41.6 |
| 83 | 12.9 | 9.3 | 17.3 |

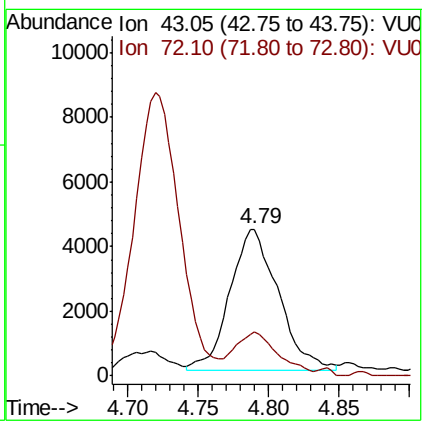


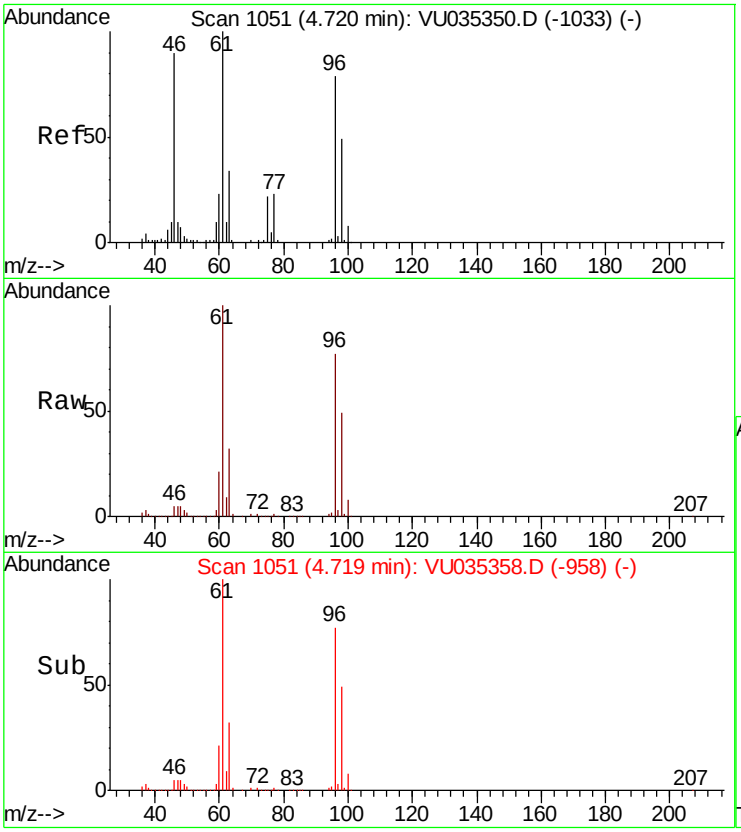




#21
2-Butanone
Concen: 1.769 ug/L
RT: 4.79 min Scan# 1073
Delta R.T. 0.01 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 43 Resp: 10519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.6 | 13.6 | 40.8 |



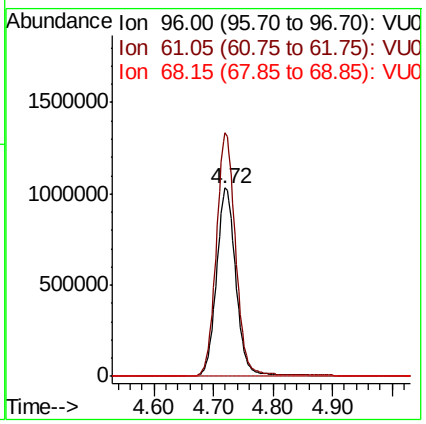


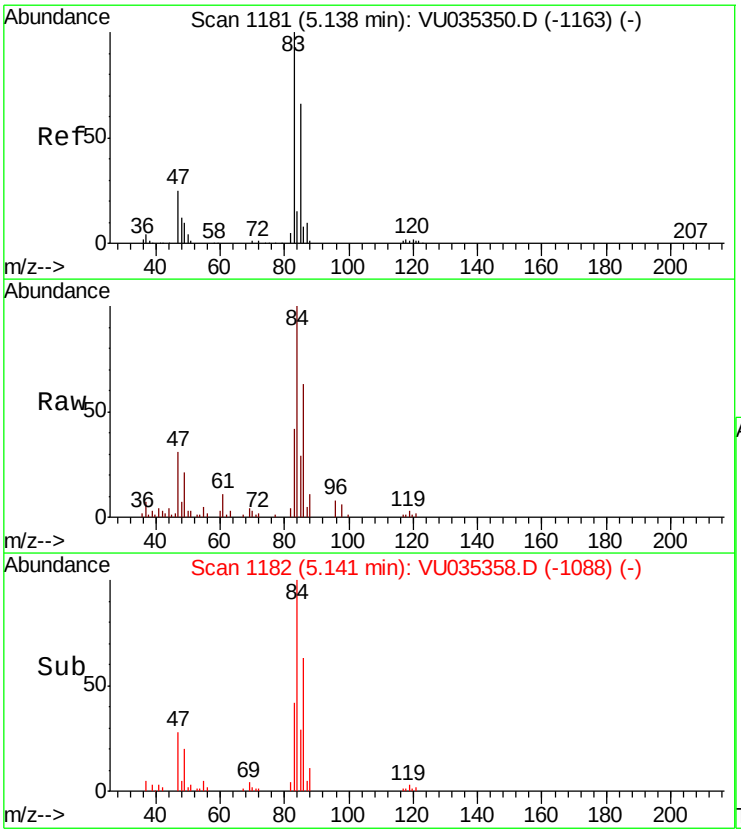

#22
cis-1,2-Dichloroethene
Concen: 102.129 ug/L
RT: 4.72 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 96 Resp: 2342600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.5 | 89.7 | 166.5 |
| 68 | 0.0 | 0.0 | 0.0 |

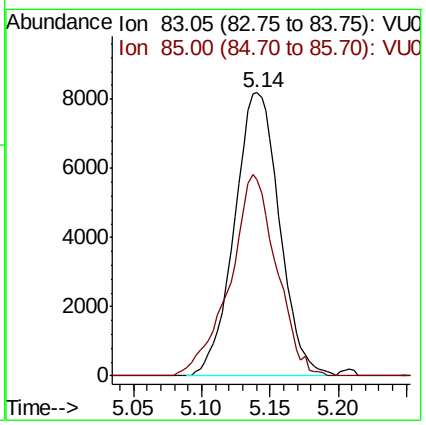


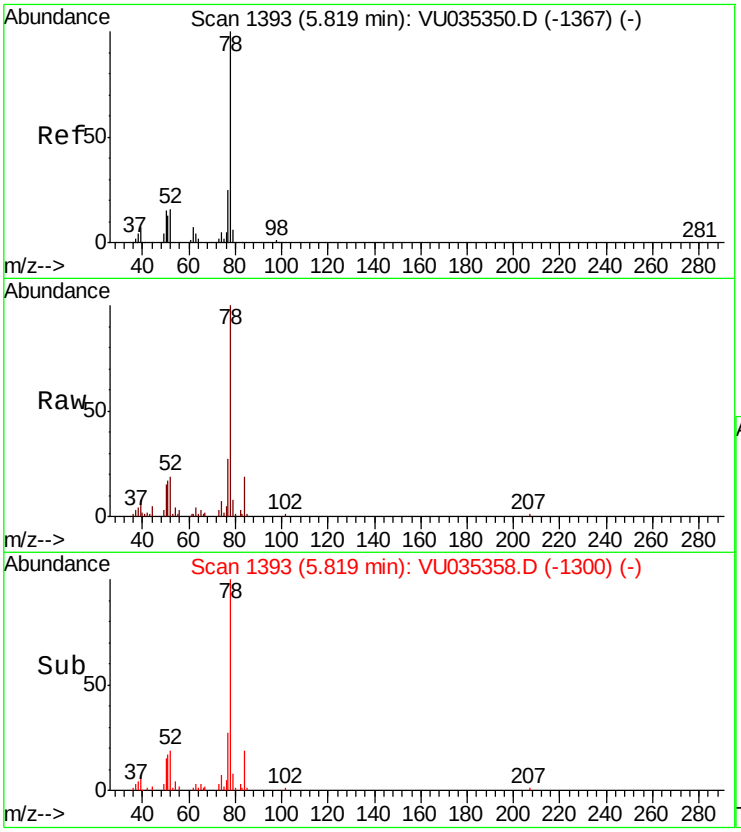




#25
Chloroform
Concen: 0.457 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 83 Resp: 18802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.5 | 45.1 | 83.9 |

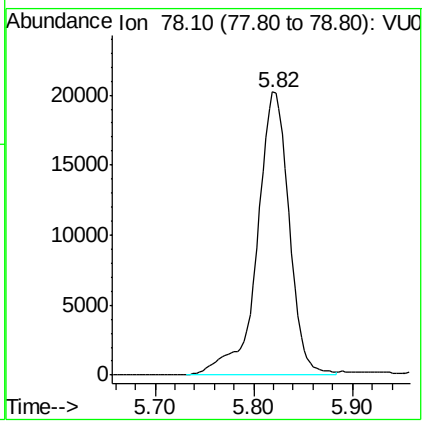


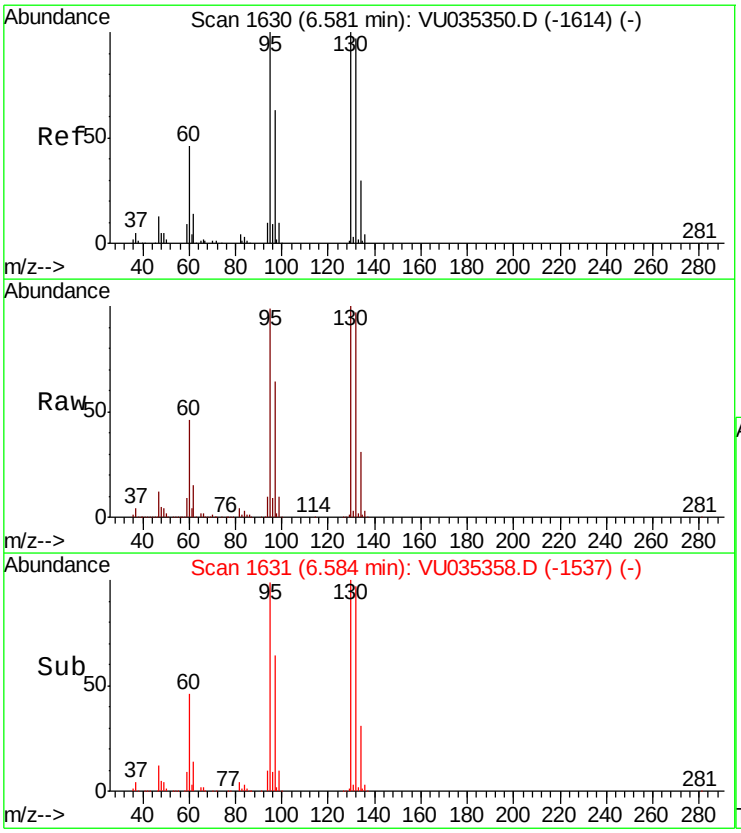



#33
Benzene
Concen: 0.546 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 78 Resp: 45429

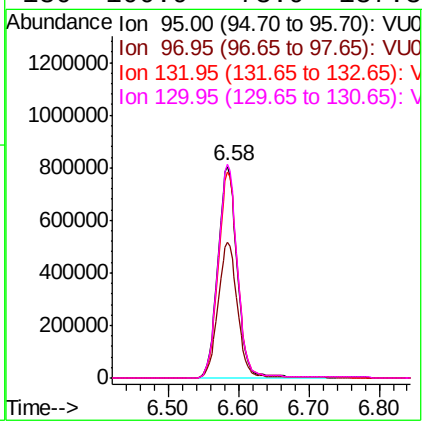


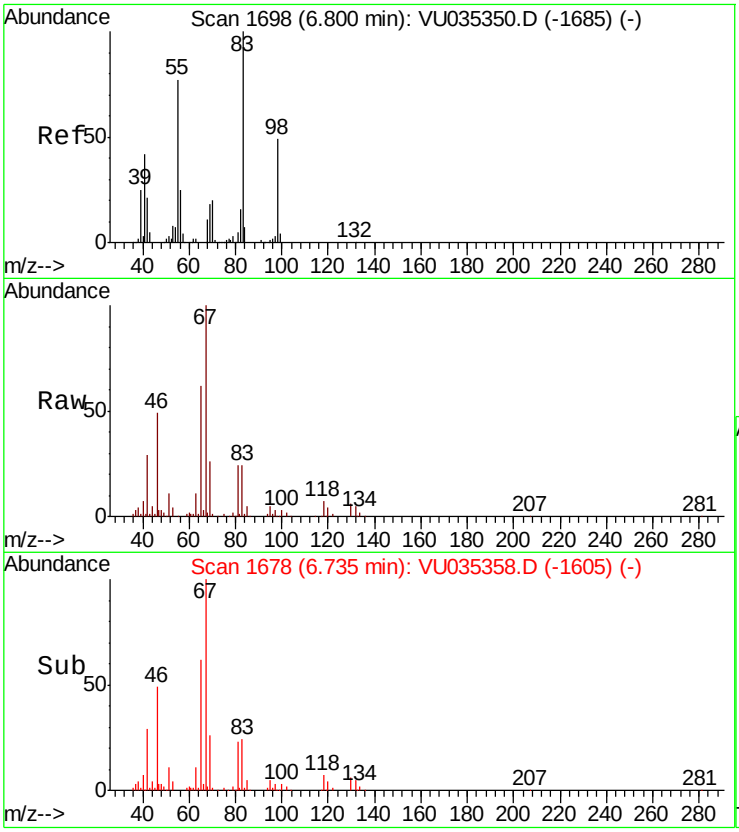




#34
Trichloroethene
Concen: 69.263 ug/L
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 95 Resp: 1548941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 64.2 | 46.6 | 86.6 |
| 132 | 97.6 | 68.7 | 127.7 |
| 130 | 100.9 | 73.9 | 137.3 |



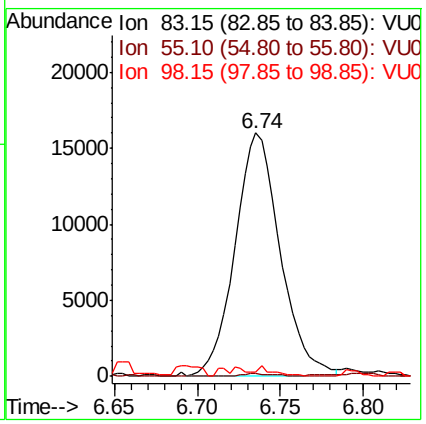


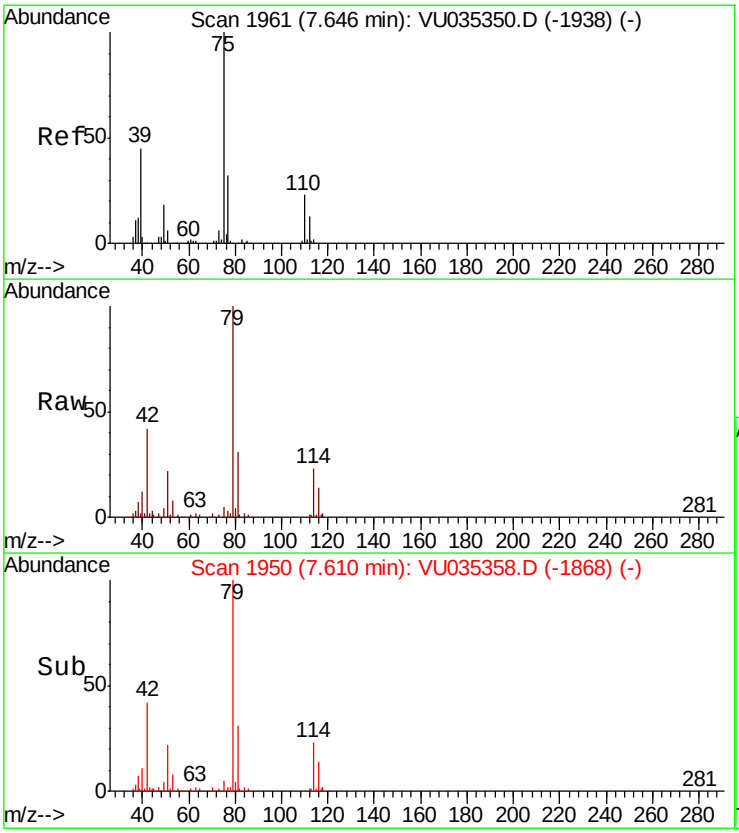

#35
Methylcyclohexane
Concen: 0.813 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.06 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 83 Resp: 30374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 0.8 | 60.4 | 90.6# |
| 98 | 0.0 | 39.5 | 59.3# |

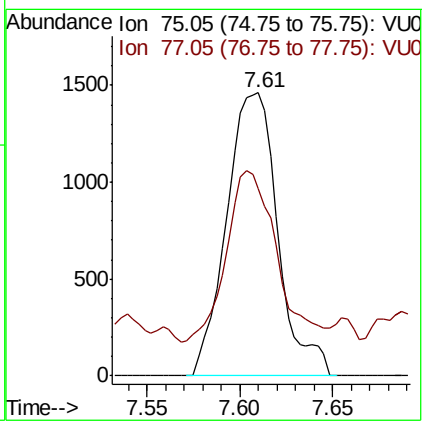


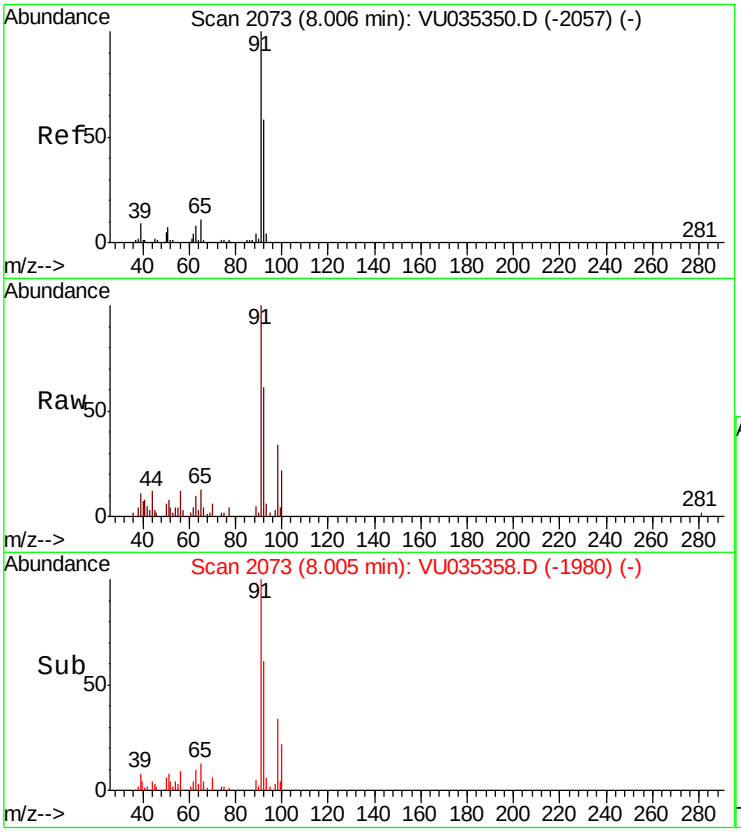




#39
cis-1,3-Dichloropropene
Concen: 0.080 ug/L
RT: 7.61 min Scan# 1950
Delta R.T. -0.04 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion: 75 Resp: 2810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 66.3 | 22.7 | 42.1# |



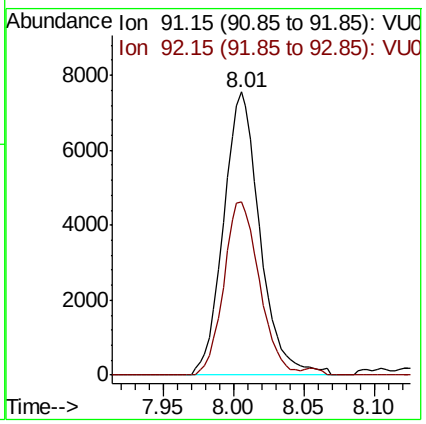


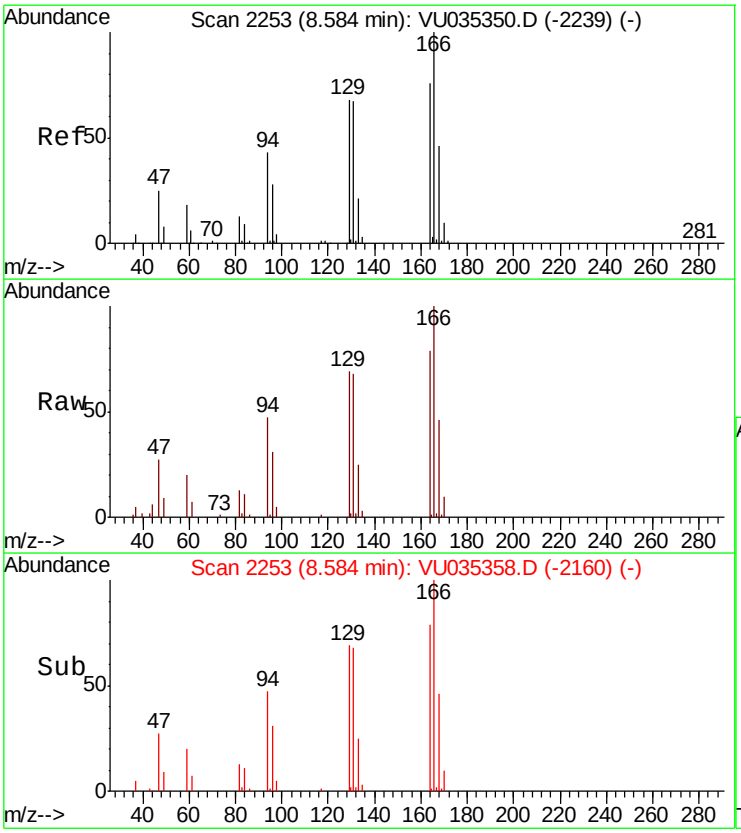

#42
Toluene
Concen: 0.149 ug/L
RT: 8.01 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 91 Resp: 13652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.4 | 39.9 | 74.1 |

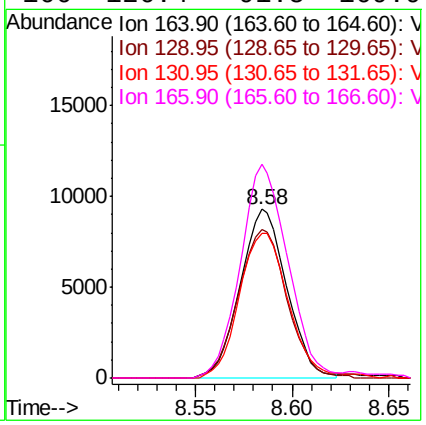


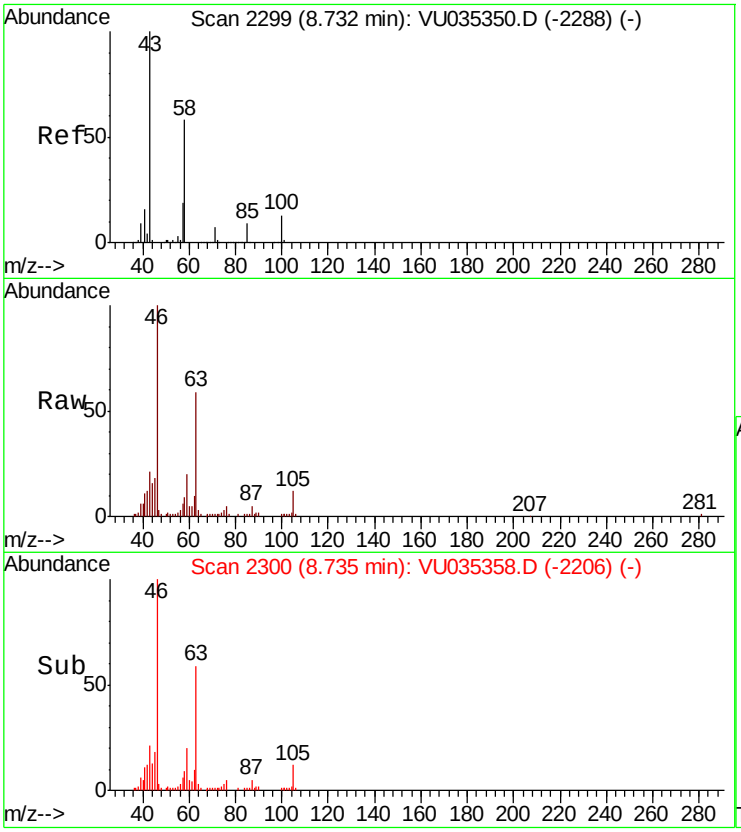




#47
Tetrachloroethene
Concen: 0.833 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion:164 Resp: 15518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 87.8 | 65.2 | 121.0 |
| 131 | 85.9 | 62.9 | 116.9 |
| 166 | 126.4 | 91.5 | 169.9 |



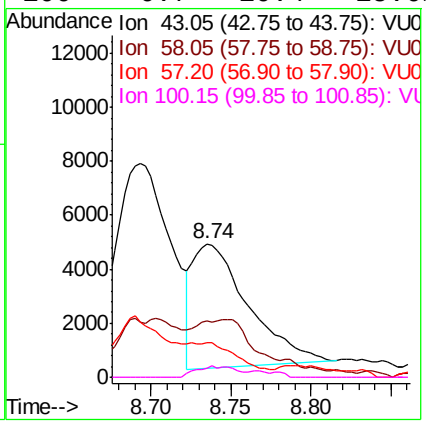


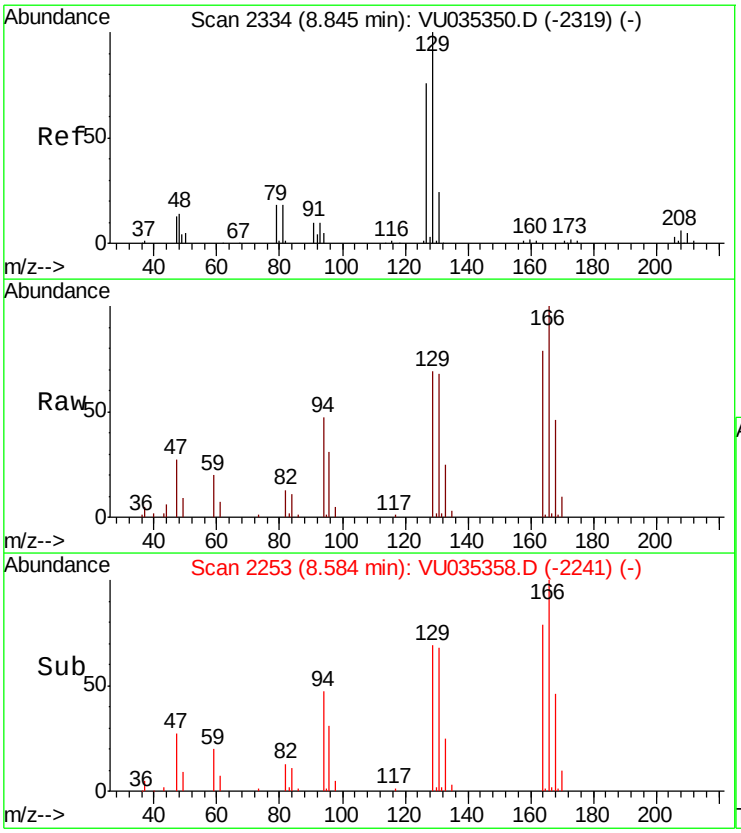

#48
2-Hexanone
Concen: 1.110 ug/L
RT: 8.74 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 43 Resp: 11096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 1.6 | 45.1 | 67.7# |
| 57 | 2.4 | 16.0 | 24.0# |
| 100 | 6.7 | 10.4 | 15.6# |

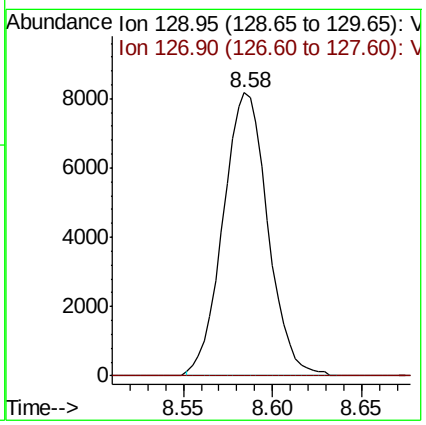


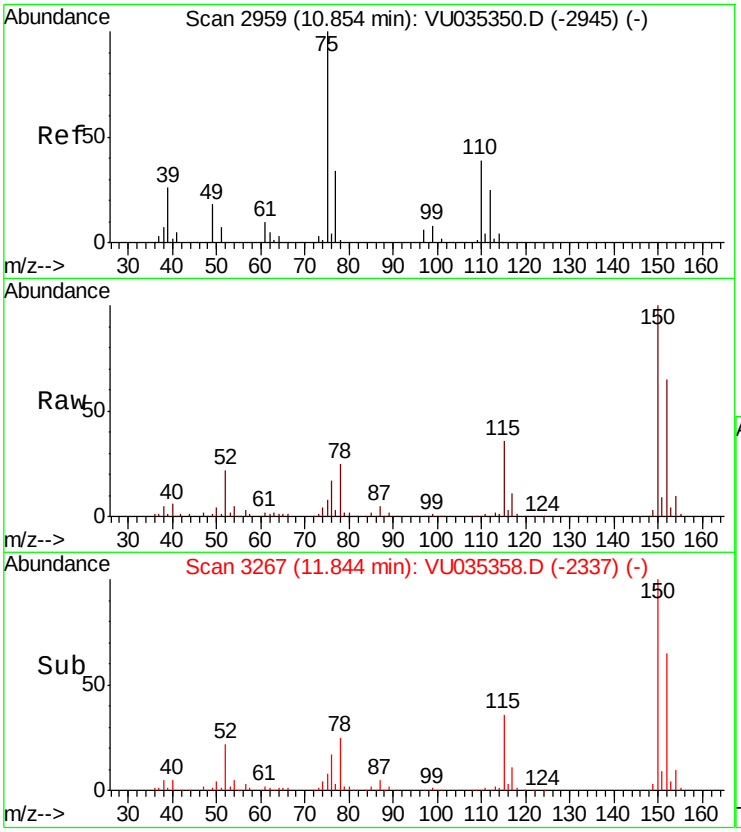




#49
Dibromochloromethane
Concen: 0.717 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.26 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

Tgt Ion:129 Resp: 14254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 0.0 | 53.8 | 99.8# |






#59
1,2,3-Trichloropropane
Concen: 0.807 ug/L
RT: 11.84 min Scan# 3267
Delta R.T. 0.99 min
Lab File: VU035358.D
Acq: 22 Oct 2019 12:26

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

Tgt Ion: 75 Resp: 11876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 40.3 | 26.2 | 39.2# |