Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
Data File : VX002137.D
Acq On : 30 May 2018 13:29
Operator : JC/MD
Sample : J3070-02 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 14B-2

Quant Time: May 31 02:08:46 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.03 | 128 | 51306 | 30.00 | ug/l | | 0.00 |
| 28) 1,4-Difluorobenzene | 6.87 | 114 | 289864 | 30.00 | ug/l | | 0.00 |
| 57) Chlorobenzene-d5 | 10.12 | 117 | 253199 | 30.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 27) 1,2-Dichloroethane-d4 | 6.07 | 65 | 125657 | 31.12 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 50 - 169 | | Recovery = 103.73% | | | | |
| 60) 4-Bromofluorobenzene | 11.14 | 95 | 117780 | 27.17 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 56 - 143 | | Recovery = 90.57% | | | | |
| 63) Toluene-d8 | 8.72 | 98 | 346715 | 30.72 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 66 - 137 | | Recovery = 102.40% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 5) Bromomethane | 1.66 | 94 | 1001 | 0.55 | ug/l | | 92 |
| 6) Chloroethane | 1.73 | 64 | 807 | 0.42 | ug/l | # | 80 |
| 11) Methyl Iodide | 2.53 | 142 | 876 | 0.22 | ug/l | # | 82 |
| 13) Acrolein | 2.22 | 56 | 93 | 0.26 | ug/l | | 90 |
| 15) Acetone | 2.45 | 58 | 1076 | 2.37 | ug/l | # | 64 |
| 18) Methylene Chloride | 2.86 | 84 | 1705 | 0.59 | ug/l | | 92 |
| 23) tert-Butyl Alcohol | 3.03 | 59 | 1093 | 1.24 | ug/l | # | 98 |
| 25) Chloroform | 5.22 | 83 | 334464 | 59.41 | ug/l | | 99 |
| 41) Bromodichloromethane | 7.90 | 83 | 55025 | 11.94 | ug/l | | 95 |
| 52) 1,3-Dichloropropane | 9.06 | 76 | 1634 | 0.30 | ug/l | # | 43 |
| 53) Dibromochloromethane | 9.59 | 129 | 4665 | 1.20 | ug/l | | 95 |
| 56) Bromoform | 11.15 | 173 | 1219 | 0.36 | ug/l | # | 1 |
| 58) 4-Methyl-2-Pentanone | 8.63 | 43 | 3062 | 0.56 | ug/l | # | 51 |
| 77) t-1,4-Dichloro-2-butene | 11.14 | 75 | 62565 | 39.55 | ug/l | # | 11 |

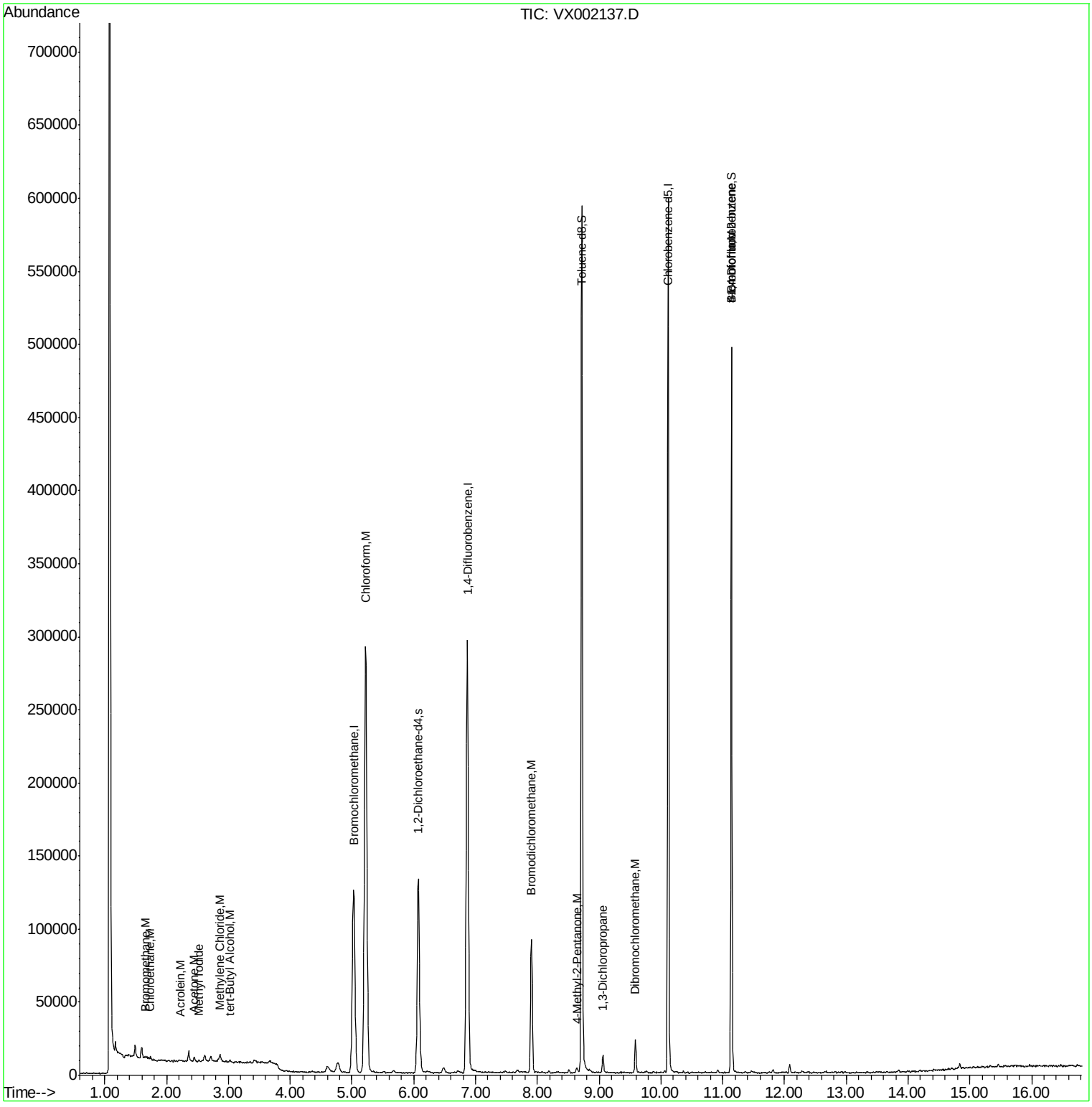
(#) = qualifier out of range (m) = manual integration (+) = signals summed

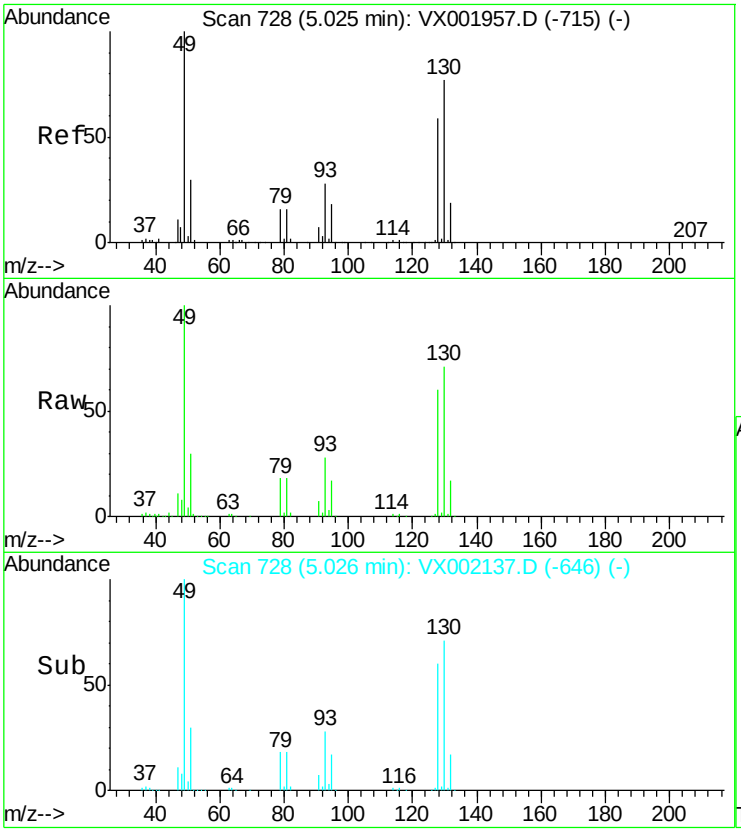
Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
Data File : VX002137.D
Acq On : 30 May 2018 13:29
Operator : JC/MD
Sample : J3070-02 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
14B-2

Quant Time: May 31 02:08:46 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration



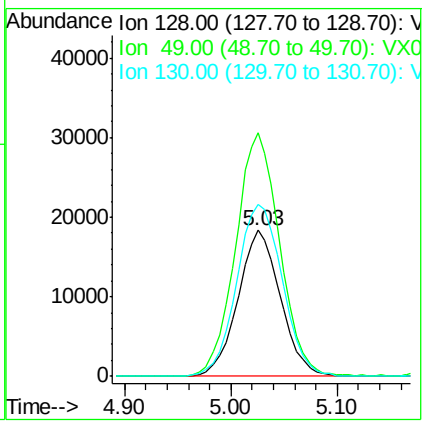


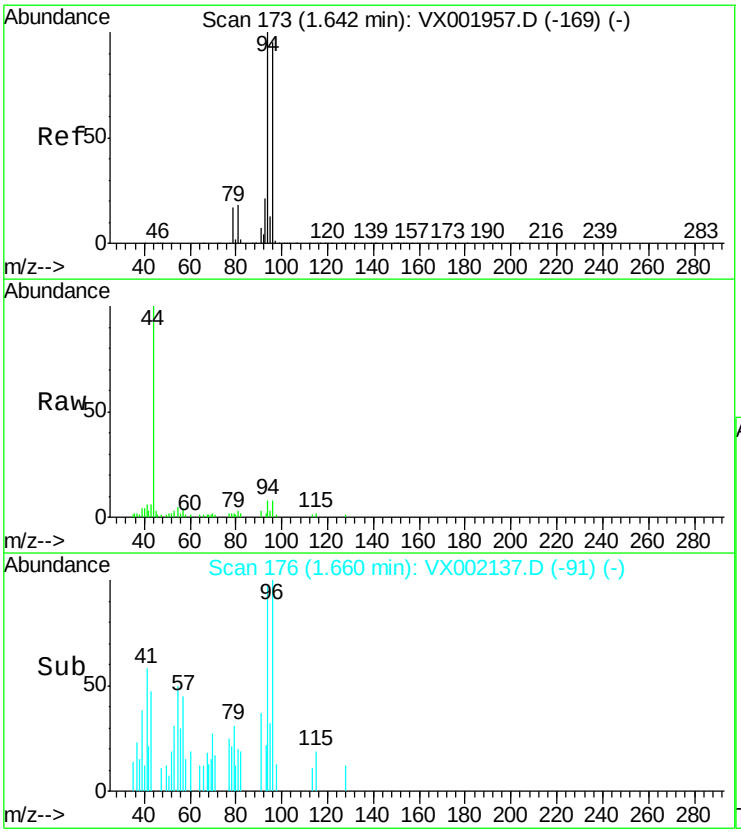

#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 5.03 min Scan# 728
Delta R.T. 0.00 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :**
MSVOA_X
**ClientSampleId :**
14B-2

Tgt Ion:128 Resp: 51306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 172.5 | 0.0 | 423.0 |
| 130 | 127.0 | 0.0 | 324.3 |

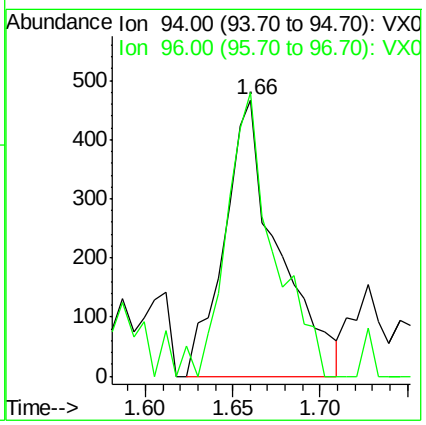


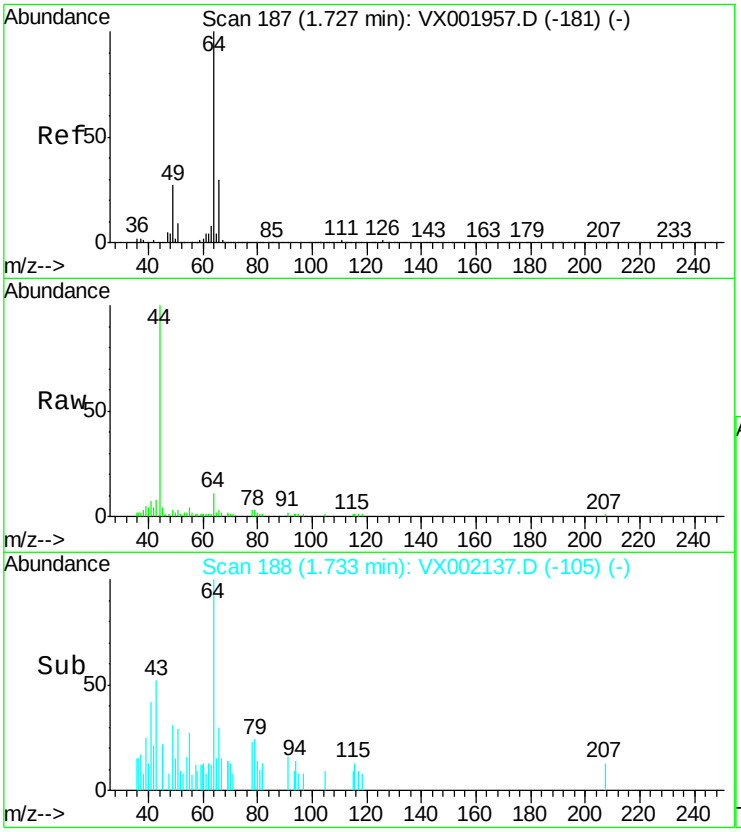




#5
Bromomethane
Concen: 0.55 ug/l
RT: 1.66 min Scan# 176
Delta R.T. 0.02 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 94 Resp: 1001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 102.6 | 75.7 | 113.5 |



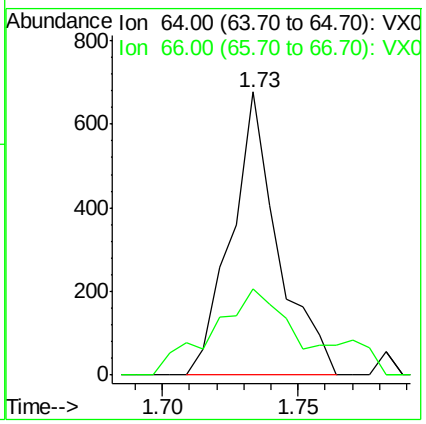


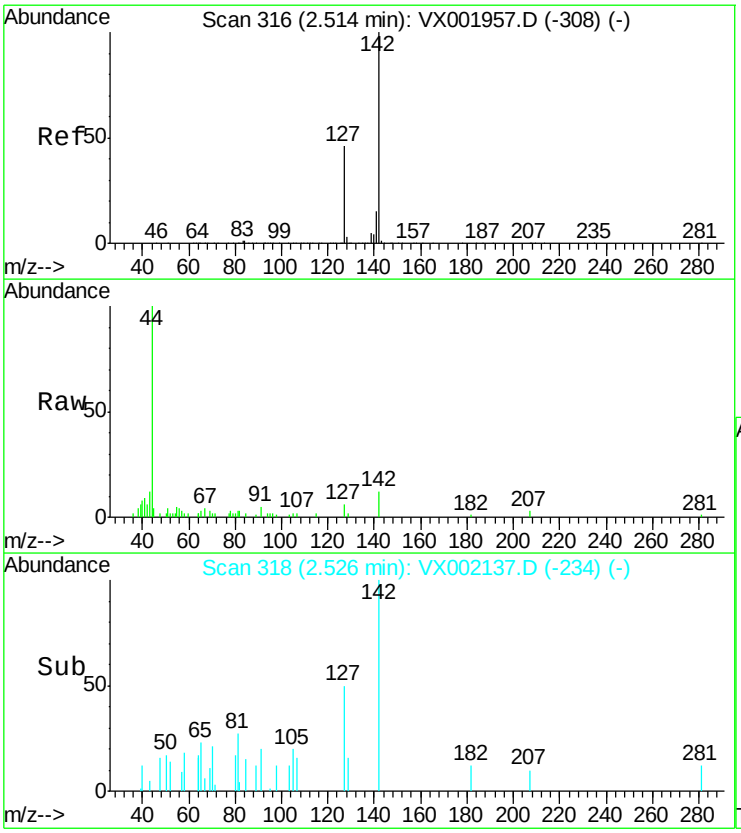

#6
Chloroethane
Concen: 0.42 ug/l
RT: 1.73 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :** MSVOA_X
**ClientSampleId :** 14B-2

Tgt Ion: 64 Resp: 807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 19.6 | 24.3 | 36.5# |

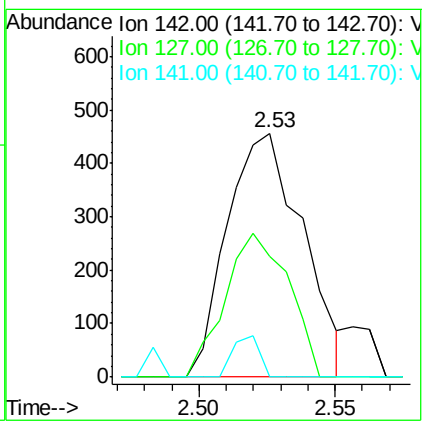


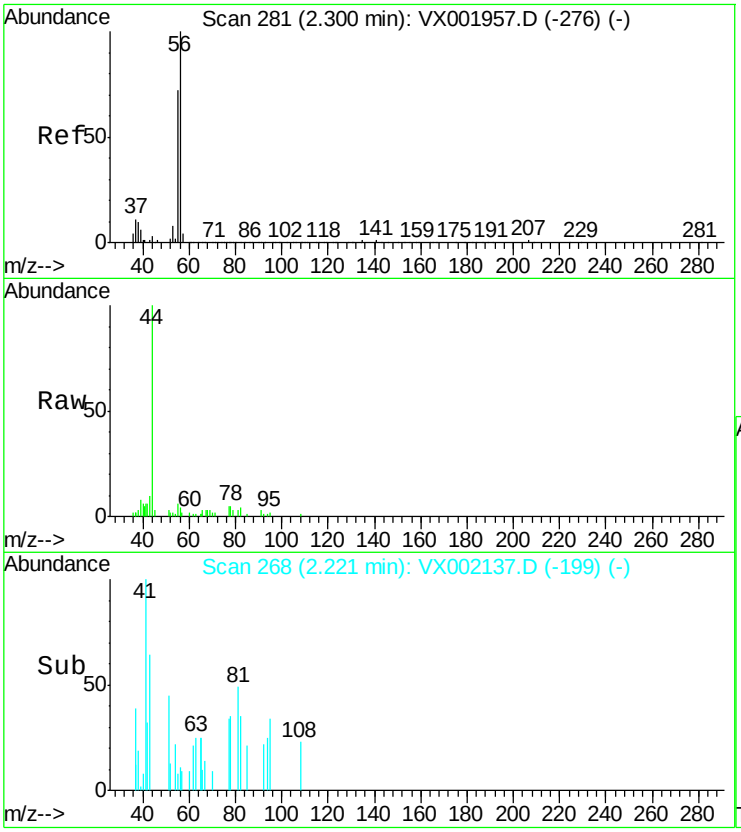




#11
Methyl Iodide
Concen: 0.22 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion:142 Resp: 876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 54.8 | 23.2 | 69.6 |
| 141 | 0.0 | 7.4 | 22.2# |



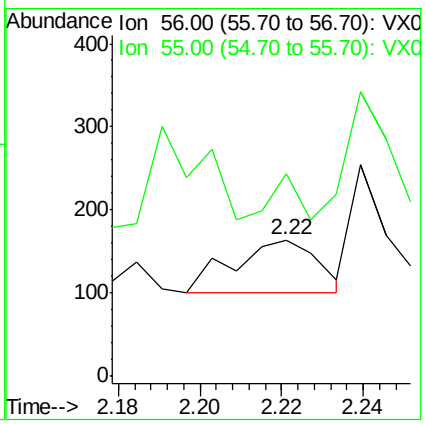


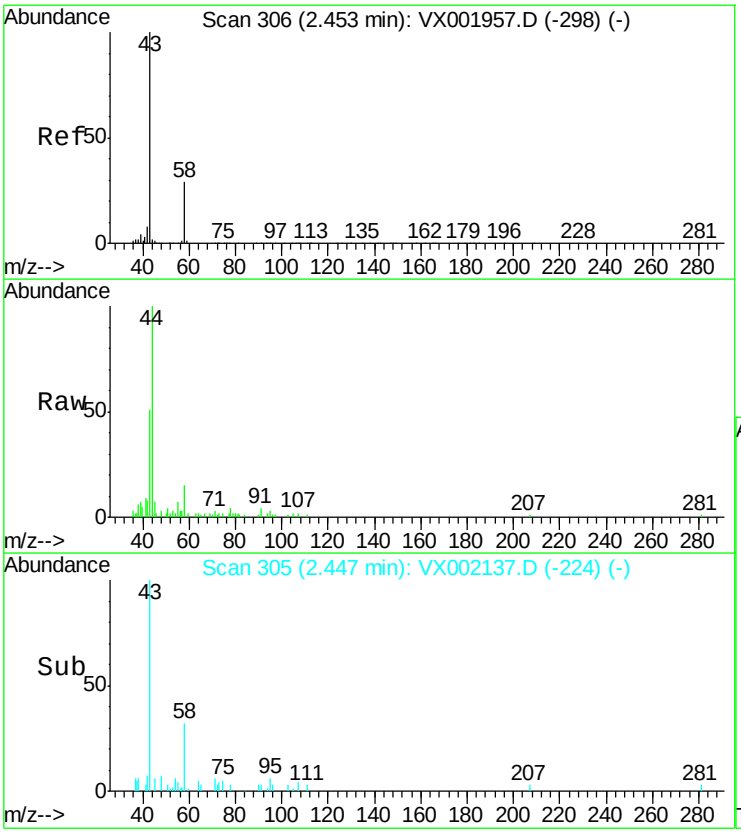

#13
Acrolein
Concen: 0.26 ug/l
RT: 2.22 min Scan# 268
Delta R.T. -0.08 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :**
MSVOA_X
**ClientSampleId :**
14B-2

Tgt Ion: 56 Resp: 93

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 79.6 | 57.3 | 85.9 |

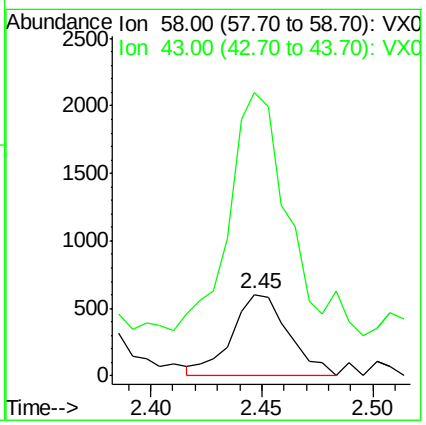


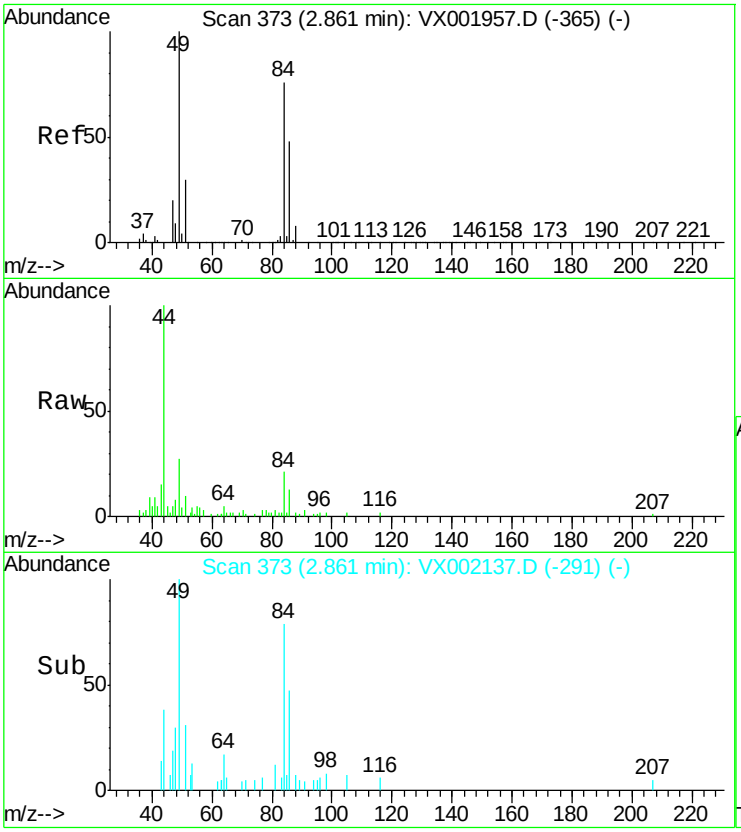




#15
Acetone
Concen: 2.37 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 58 Resp: 1076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 271.0 | 278.8 | 418.2# |



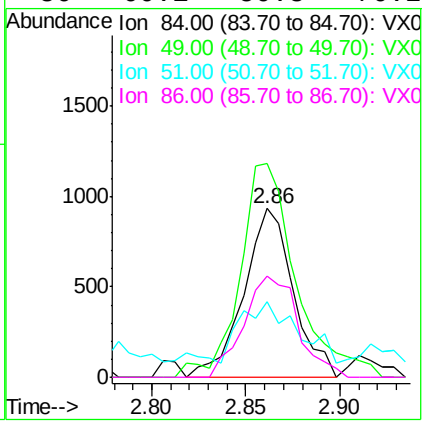


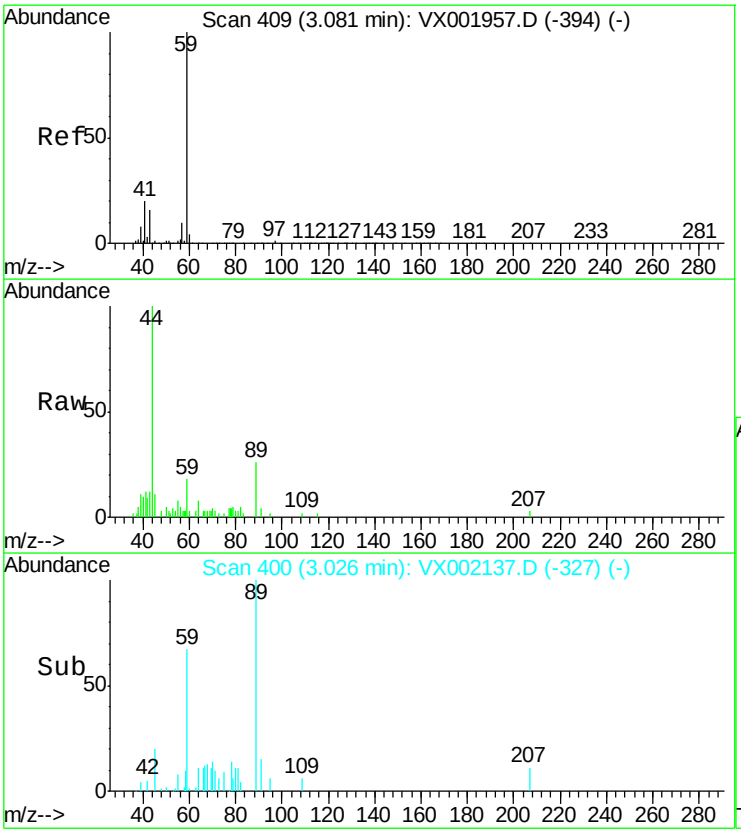

#18
Methylene Chloride
Concen: 0.59 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :** MSVOA_X
**ClientSampleId :** 14B-2

Tgt Ion: 84 Resp: 1705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 118.1 | 104.7 | 157.1 |
| 51 | 36.2 | 31.0 | 46.4 |
| 86 | 60.1 | 50.8 | 76.2 |

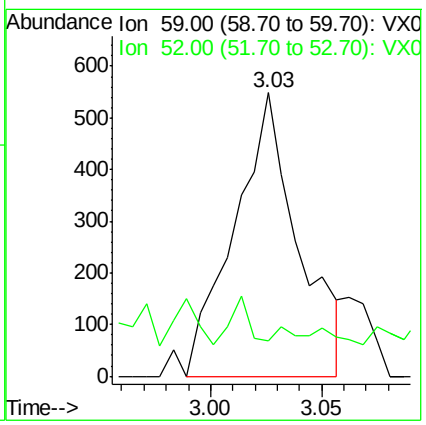


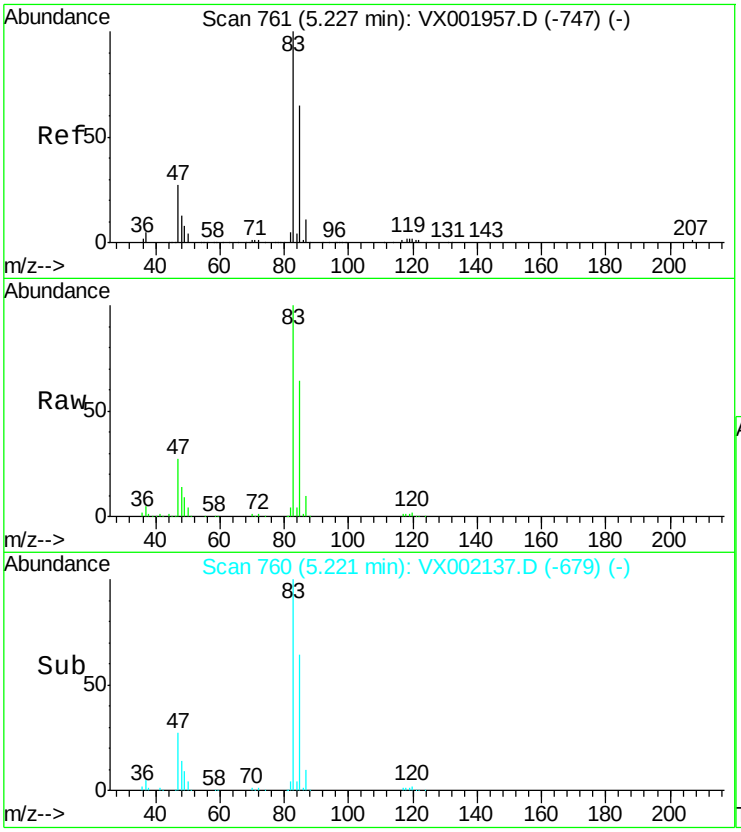




#23
tert-Butyl Alcohol
Concen: 1.24 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 59 Resp: 1093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 52 | 3.1 | 0.2 | 0.2# |



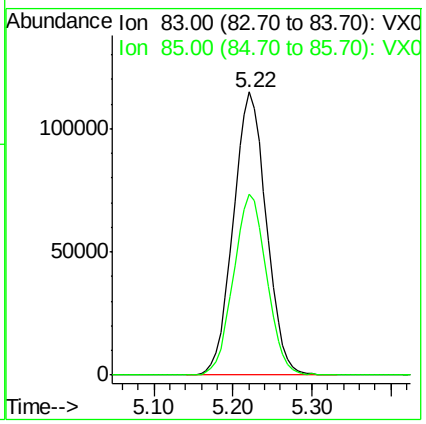


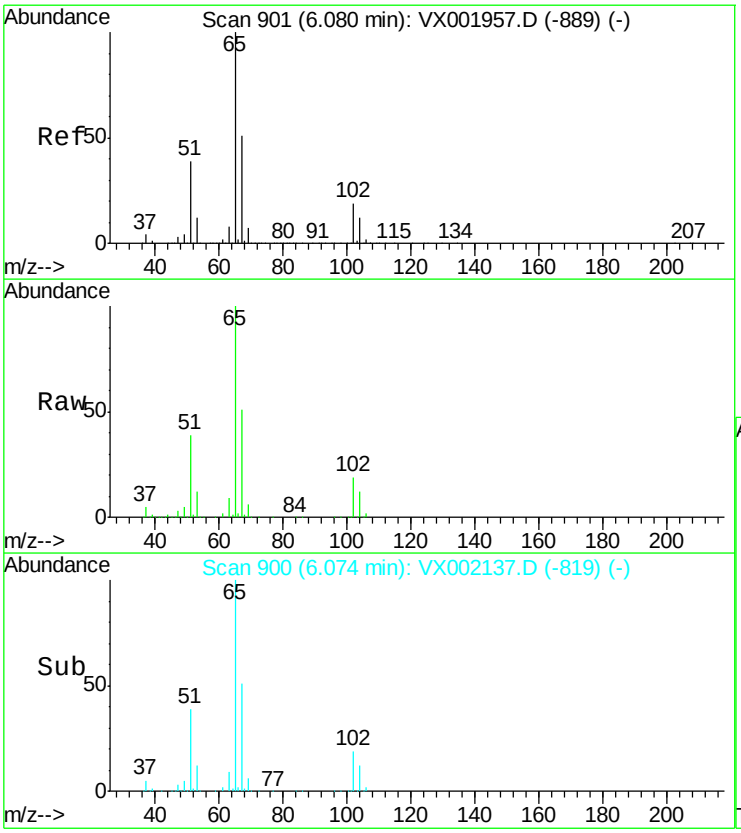

#25
Chloroform
Concen: 59.41 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :**
MSVOA_X
**ClientSampleId :**
14B-2

Tgt Ion: 83 Resp: 334464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 51.9 | 77.9 |

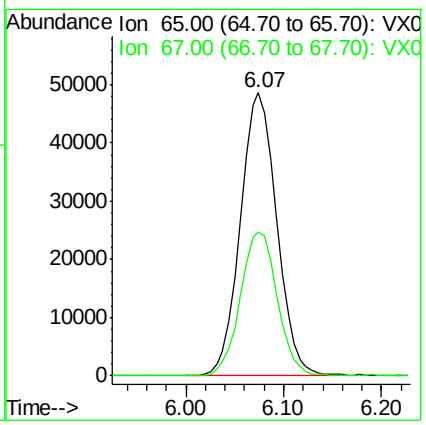


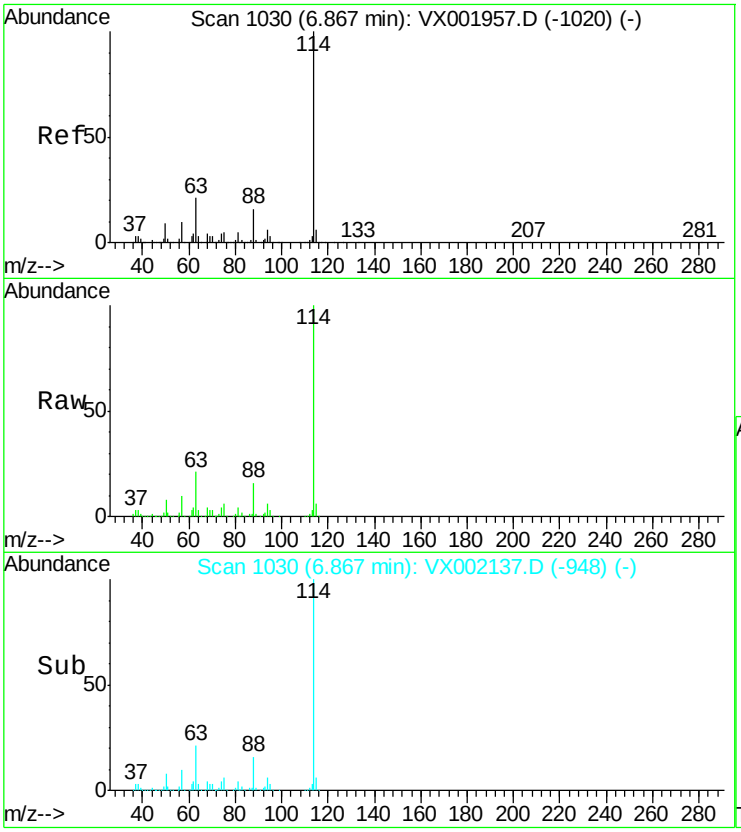




#27
1,2-Dichloroethane-d4
Concen: 31.12 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 65 Resp: 125657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.7 | 40.9 | 61.3 |



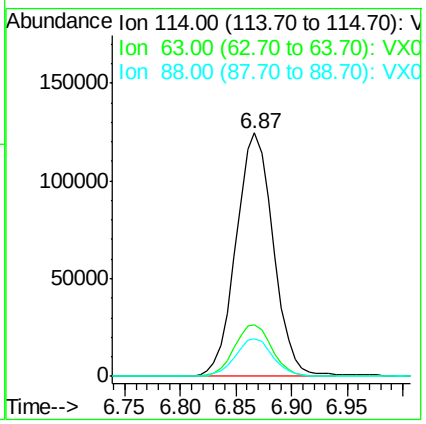


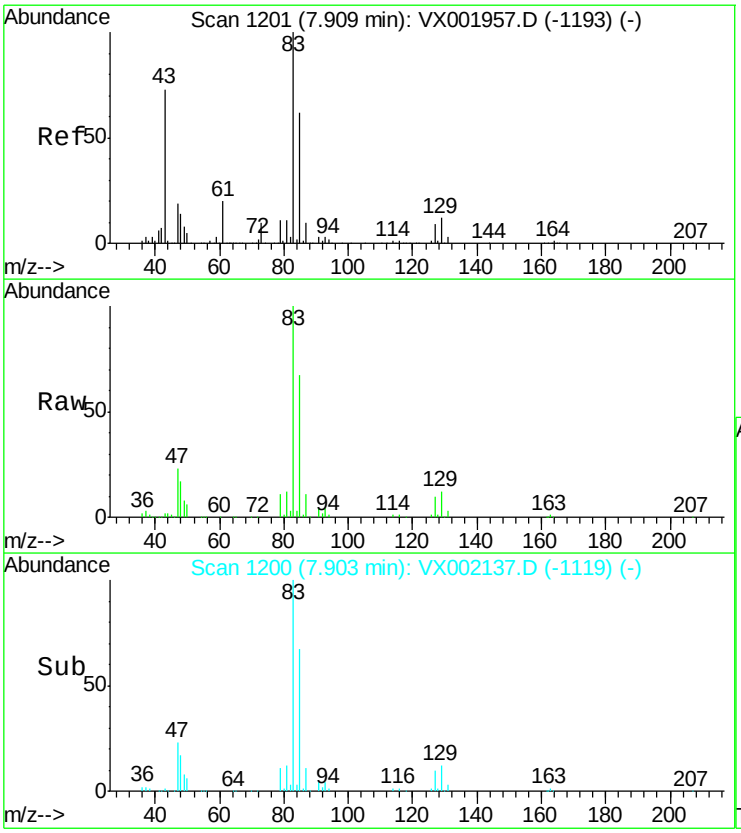

#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :** MSVOA_X
**ClientSampleId :** 14B-2

Tgt Ion:114 Resp: 289864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 17.1 | 25.7 |
| 88 | 15.5 | 12.6 | 19.0 |

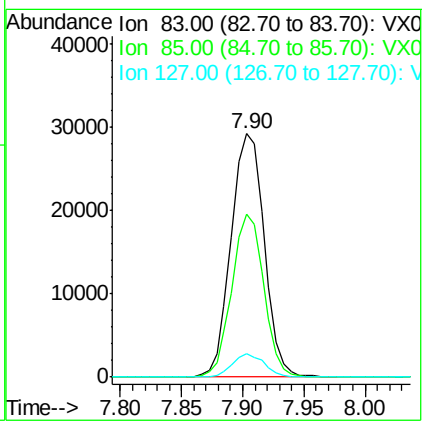


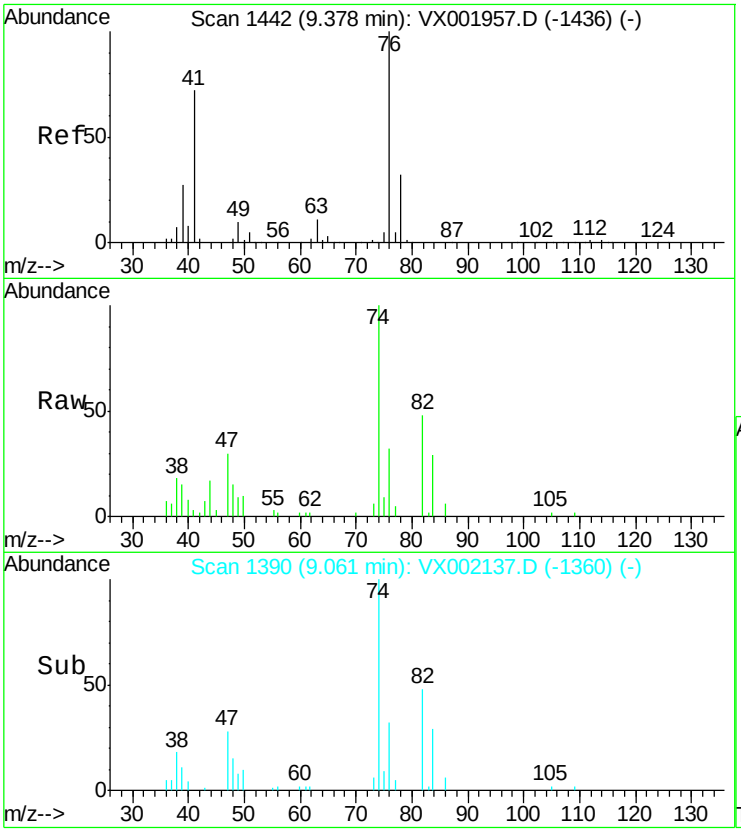




#41
Bromodichloromethane
Concen: 11.94 ug/l
RT: 7.90 min Scan# 1200
Delta R.T. -0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 83 Resp: 55025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.8 | 49.8 | 74.8 |
| 127 | 9.5 | 7.3 | 10.9 |



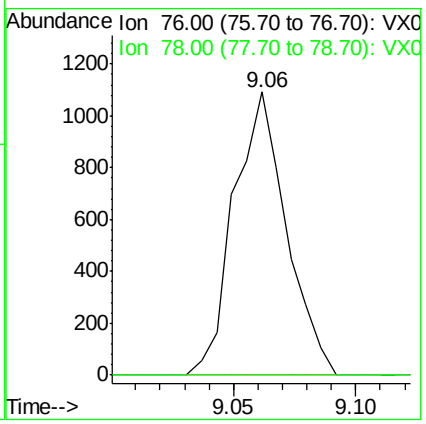


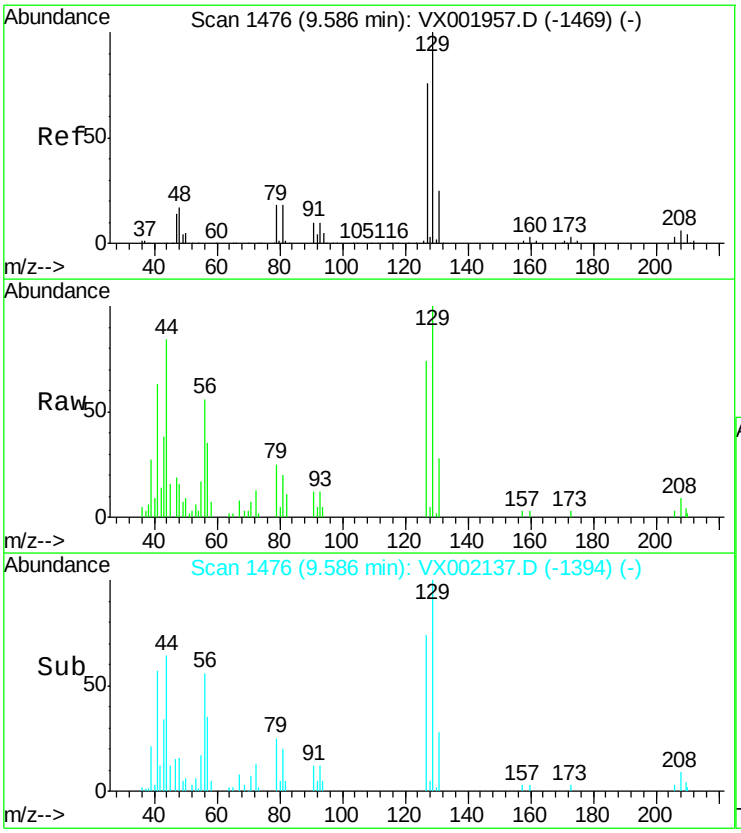

#52
1,3-Dichloropropane
Concen: 0.30 ug/l
RT: 9.06 min Scan# 1390
Delta R.T. -0.32 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :** MSVOA_X
**ClientSampleId :** 14B-2

Tgt Ion: 76 Resp: 1634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 63.4 |

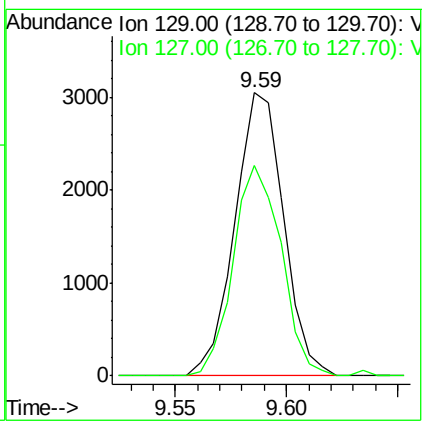


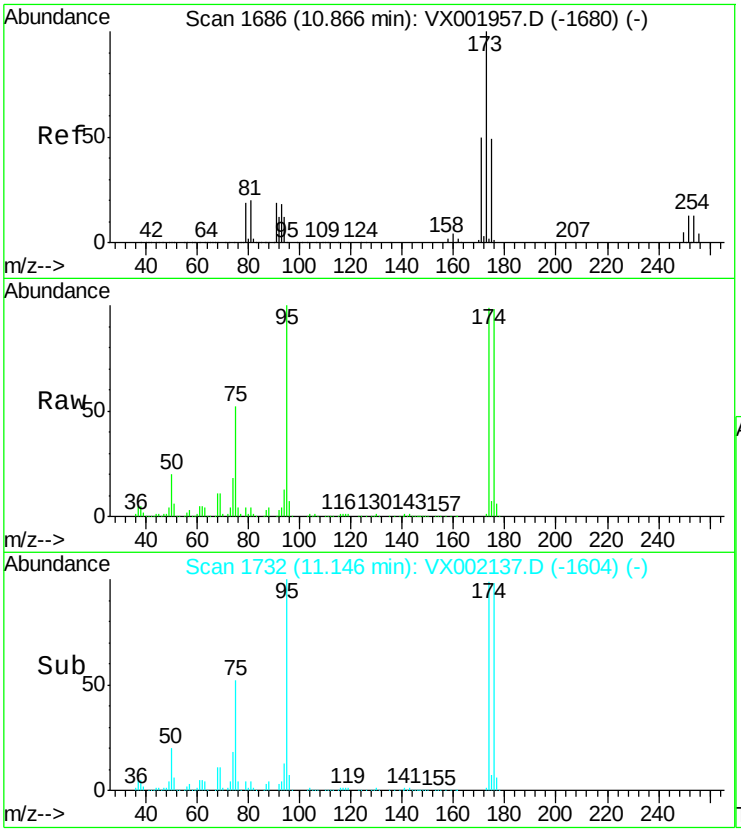




#53
Dibromochloromethane
Concen: 1.20 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion:129 Resp: 4665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 72.9 | 38.5 | 115.3 |



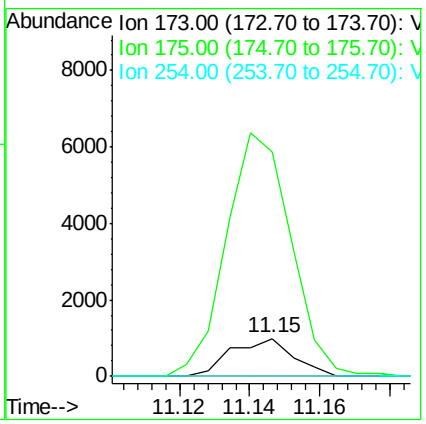


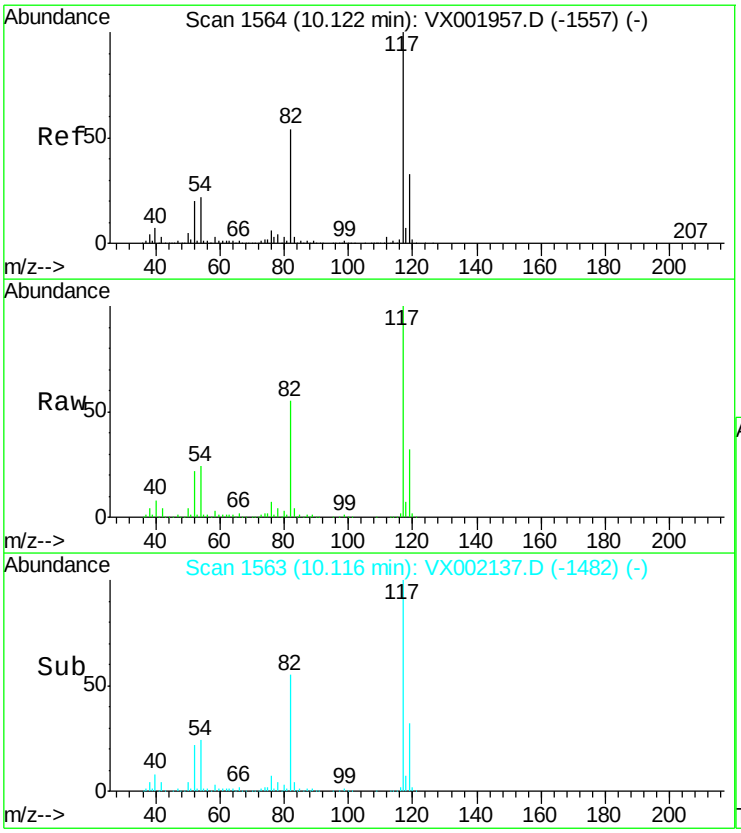

#56
Bromoform
Concen: 0.36 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.28 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :** MSVOA_X
**ClientSampleId :** 14B-2

Tgt Ion:173 Resp: 1219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 676.0 | 39.0 | 58.4# |
| 254 | 0.0 | 9.6 | 14.4# |

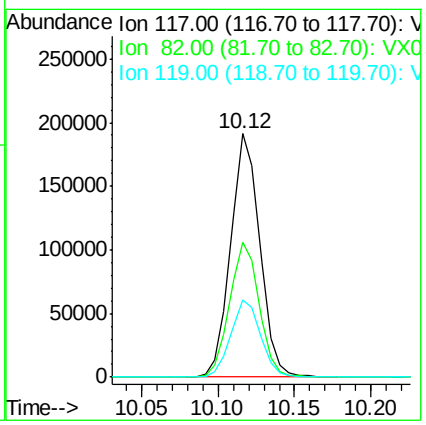


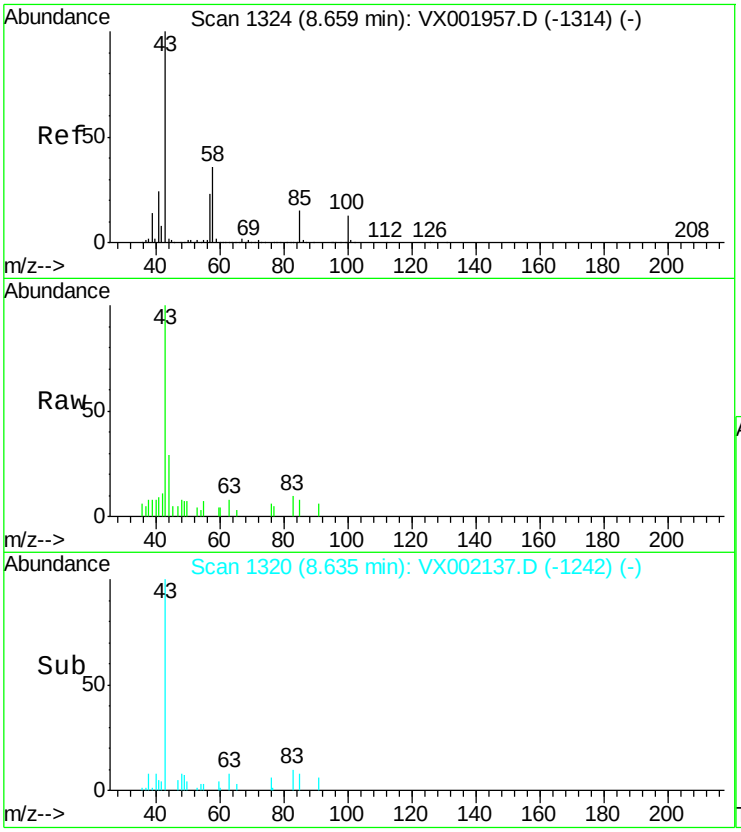




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion:117 Resp: 253199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.9 | 44.3 | 66.5 |
| 119 | 32.4 | 25.7 | 38.5 |



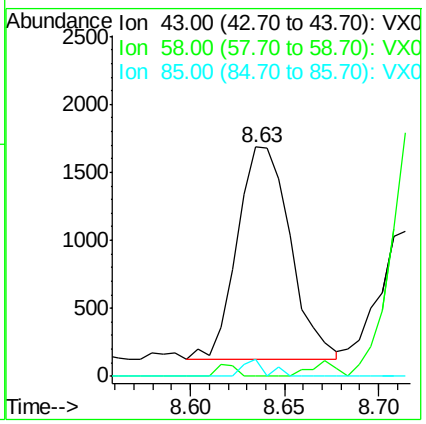


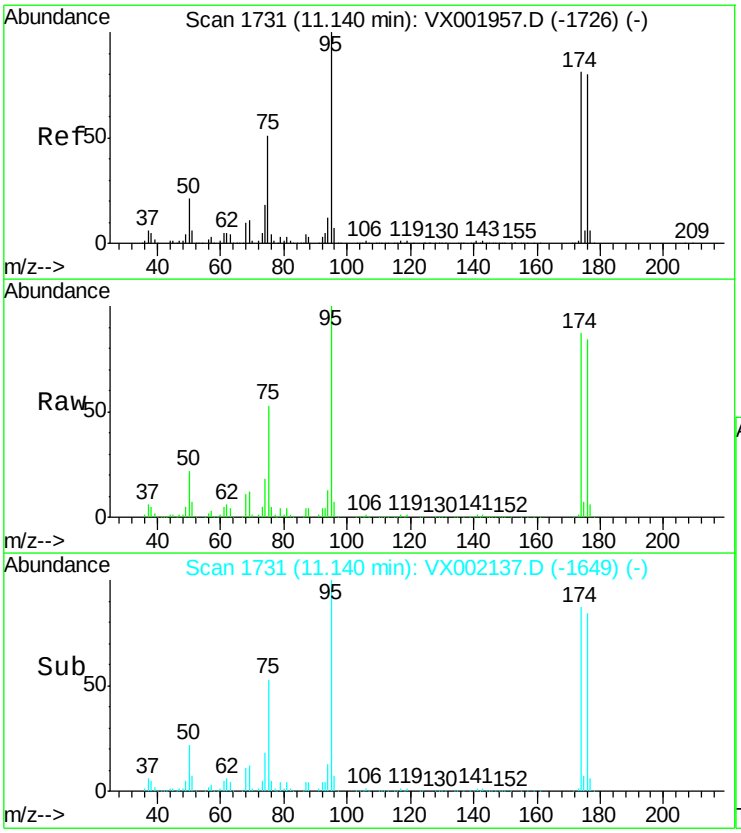

#58
4-Methyl-2-Pentanone
Concen: 0.56 ug/l
RT: 8.63 min Scan# 1320
Delta R.T. -0.02 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :**
MSVOA_X
**ClientSampleId :**
14B-2

Tgt Ion: 43 Resp: 3062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 1.9 | 28.2 | 42.4# |
| 85 | 2.6 | 12.4 | 18.6# |

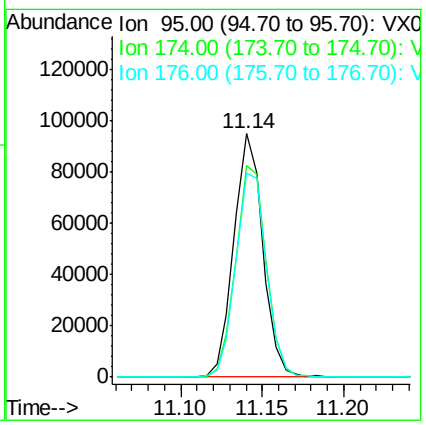


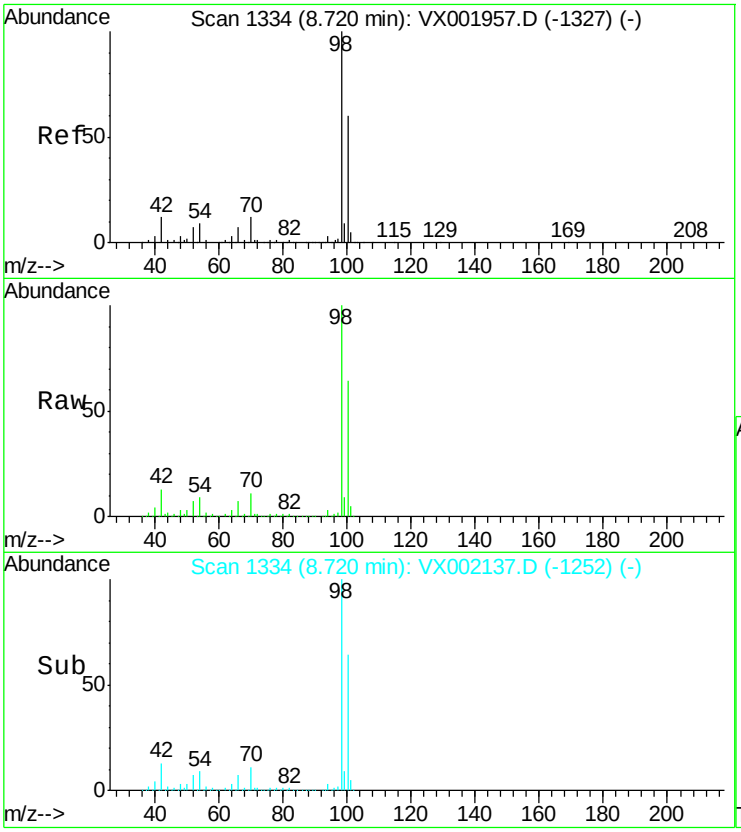




#60
4-Bromofluorobenzene
Concen: 27.17 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 95 Resp: 117780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.2 | 71.8 | 107.6 |
| 176 | 89.2 | 70.1 | 105.1 |



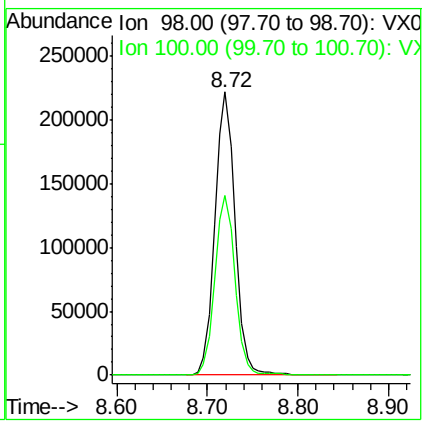


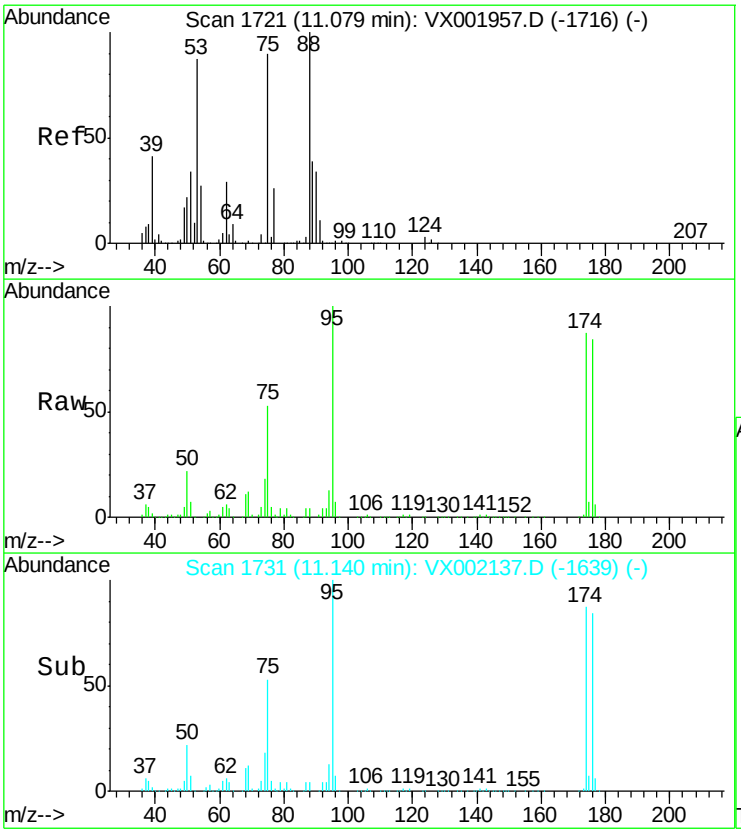

#63
Toluene-d8
Concen: 30.72 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

**Instrument :**
MSVOA_X
**ClientSampleId :**
14B-2

Tgt Ion: 98 Resp: 346715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.6 | 50.8 | 76.2 |




#77
t-1,4-Dichloro-2-butene
Concen: 39.55 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002137.D
Acq: 30 May 2018 13:29

Tgt Ion: 75 Resp: 62565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 48.3 | 144.9# |
| 89 | 0.0 | 21.8 | 65.4# |