Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV072018\
Data File : VV006657.D
Acq On : 20 Jul 2018 10:01
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD00571

Quant Time: Jul 26 02:02:37 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071918WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sun Jul 22 23:06:02 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.67 | 114 | 247826 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.90 | 117 | 226914 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152 | 110295 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.32 | 65 | 85979 | 4.94 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 98.80% | | | |
| 7) Chloroethane-d5 | 1.58 | 69 | 65098 | 5.55 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 111.00% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.13 | 63 | 174364 | 5.21 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 104.20% | | | |
| 20) 2-Butanone-d5 | 3.95 | 46 | 125158 | 33.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 66.26% | | | |
| 24) Chloroform-d | 4.40 | 84 | 152972 | 5.18 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 103.60% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.09 | 65 | 70973 | 5.13 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 102.60% | | | |
| 32) Benzene-d6 | 5.10 | 84 | 325518 | 5.28 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 105.60% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.12 | 67 | 101366 | 5.30 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 106.00% | | | |
| 41) Toluene-d8 | 7.36 | 98 | 307406 | 5.36 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 107.20% | | | |
| 43) trans-1,3-Dichloropropene- | 7.67 | 79 | 34113 | 5.26 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 105.20% | | | |
| 46) 2-Hexanone-d5 | 8.14 | 63 | 151982 | 47.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 94.02% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84 | 70780 | 5.09 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 101.80% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.68 | 152 | 104845 | 5.28 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 105.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.14 | 85 | 100210 | 4.253 | ug/L # | 84 |
| 3) Chloromethane | 1.26 | 50 | 107614 | 5.400 | ug/L | 98 |
| 5) Vinyl chloride | 1.32 | 62 | 137403 | 5.339 | ug/L | 92 |
| 6) Bromomethane | 1.52 | 94 | 36453 | 4.995 | ug/L | 95 |
| 8) Chloroethane | 1.59 | 64 | 80835 | 5.467 | ug/L | 100 |
| 9) Trichlorofluoromethane | 1.77 | 101 | 173627 | 5.621 | ug/L | 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 109499 | 5.656 | ug/L | 99 |
| 12) 1,1-Dichloroethene | 2.14 | 96 | 101148 | 5.513 | ug/L | 95 |
| 13) Acetone | 2.19 | 43 | 147261 | 50.832 | ug/L | 98 |
| 14) Carbon disulfide | 2.32 | 76 | 327354 | 5.502 | ug/L | 100 |
| 15) Methyl Acetate | 2.46 | 43 | 42602 | 5.012 | ug/L | 99 |
| 16) Methylene chloride | 2.54 | 84 | 112112 | 4.857 | ug/L | 99 |
| 17) Methyl tert-butyl Ether | 2.81 | 73 | 240542 | 5.311 | ug/L | 100 |
| 18) trans-1,2-Dichloroethene | 2.79 | 96 | 110899 | 5.484 | ug/L | 97 |
| 19) 1,1-Dichloroethane | 3.23 | 63 | 202925 | 5.684 | ug/L | 100 |
| 21) 2-Butanone | 4.03 | 43 | 253498 | 52.244 | ug/L | 98 |
| 22) cis-1,2-Dichloroethene | 3.96 | 96 | 117417 | 5.546 | ug/L | 97 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV072018\
Data File : VV006657.D
Acq On : 20 Jul 2018 10:01
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD00571

Quant Time: Jul 26 02:02:37 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071918WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sun Jul 22 23:06:02 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 23) Bromochloromethane | 4.30 | 128 | 47256 | 5.482 ug/L | 99 |
| 25) Chloroform | 4.43 | 83 | 196295 | 5.706 ug/L | 98 |
| 27) 1,2-Dichloroethane | 5.19 | 62 | 110852 | 5.515 ug/L | 99 |
| 29) 1,1,1-Trichloroethane | 4.66 | 97 | 160030 | 5.643 ug/L | 100 |
| 30) Cyclohexane | 4.72 | 56 | 177837 | 5.609 ug/L | 99 |
| 31) Carbon tetrachloride | 4.88 | 117 | 136433 | 5.624 ug/L | 100 |
| 33) Benzene | 5.15 | 78 | 451900 | 5.662 ug/L | 100 |
| 34) Trichloroethene | 5.96 | 95 | 110547 | 5.474 ug/L | 98 |
| 35) Methylcyclohexane | 6.18 | 83 | 191484 | 5.681 ug/L | 98 |
| 37) 1,2-Dichloropropane | 6.22 | 63 | 114891 | 5.643 ug/L | 100 |
| 38) Bromodichloromethane | 6.56 | 83 | 124419 | 5.501 ug/L | 99 |
| 39) cis-1,3-Dichloropropene | 7.07 | 75 | 149842 | 5.596 ug/L | 100 |
| 40) 4-Methyl-2-pentanone | 7.28 | 43 | 574604 | 52.203 ug/L | 99 |
| 42) Toluene | 7.43 | 91 | 471287 | 5.713 ug/L | 99 |
| 44) trans-1,3-Dichloropropene | 7.70 | 75 | 113823 | 5.468 ug/L | 100 |
| 45) 1,1,2-Trichloroethane | 7.89 | 97 | 73730 | 5.382 ug/L | 98 |
| 47) Tetrachloroethene | 8.02 | 164 | 91445 | 5.638 ug/L | 98 |
| 48) 2-Hexanone | 8.19 | 43 | 410131 | 53.302 ug/L | 99 |
| 49) Dibromochloromethane | 8.30 | 129 | 80909 | 5.574 ug/L | 100 |
| 50) 1,2-Dibromoethane | 8.40 | 107 | 65388 | 5.311 ug/L | 100 |
| 51) Chlorobenzene | 8.93 | 112 | 300641 | 5.608 ug/L | 98 |
| 52) Ethylbenzene | 9.06 | 91 | 508247 | 5.739 ug/L | 100 |
| 53) m,p-xylene | 9.19 | 106 | 197173 | 5.855 ug/L | 98 |
| 54) o-xylene | 9.59 | 106 | 190608 | 5.802 ug/L | 97 |
| 55) Styrene | 9.61 | 104 | 323699 | 5.885 ug/L | 99 |
| 56) Isopropylbenzene | 9.98 | 105 | 501656 | 5.820 ug/L | 100 |
| 58) 1,1,2,2-Tetrachloroethane | 10.29 | 83 | 88925 | 5.412 ug/L | 99 |
| 59) 1,2,3-Trichloropropane | 10.32 | 75 | 63047 | 5.251 ug/L | 100 |
| 61) Bromoform | 9.78 | 173 | 39923 | 5.237 ug/L | 99 |
| 62) 1,3-Dichlorobenzene | 11.23 | 146 | 223926 | 5.574 ug/L | 100 |
| 63) 1,4-Dichlorobenzene | 11.32 | 146 | 225922 | 5.535 ug/L | 100 |
| 65) 1,2-Dichlorobenzene | 11.70 | 146 | 214104 | 5.559 ug/L | 99 |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75 | 11864 | 5.191 ug/L | 91 |
| 67) 1,3,5-Trichlorobenzene | 12.70 | 180 | 176652 | 5.689 ug/L | 98 |
| 68) 1,2,4-trichlorobenzene | 13.31 | 180 | 136817 | 5.554 ug/L | 99 |
| 69) Naphthalene | 13.56 | 128 | 218781 | 5.131 ug/L | 100 |
| 70) 1,2,3-Trichlorobenzene | 13.80 | 180 | 127741 | 5.505 ug/L | 99 |

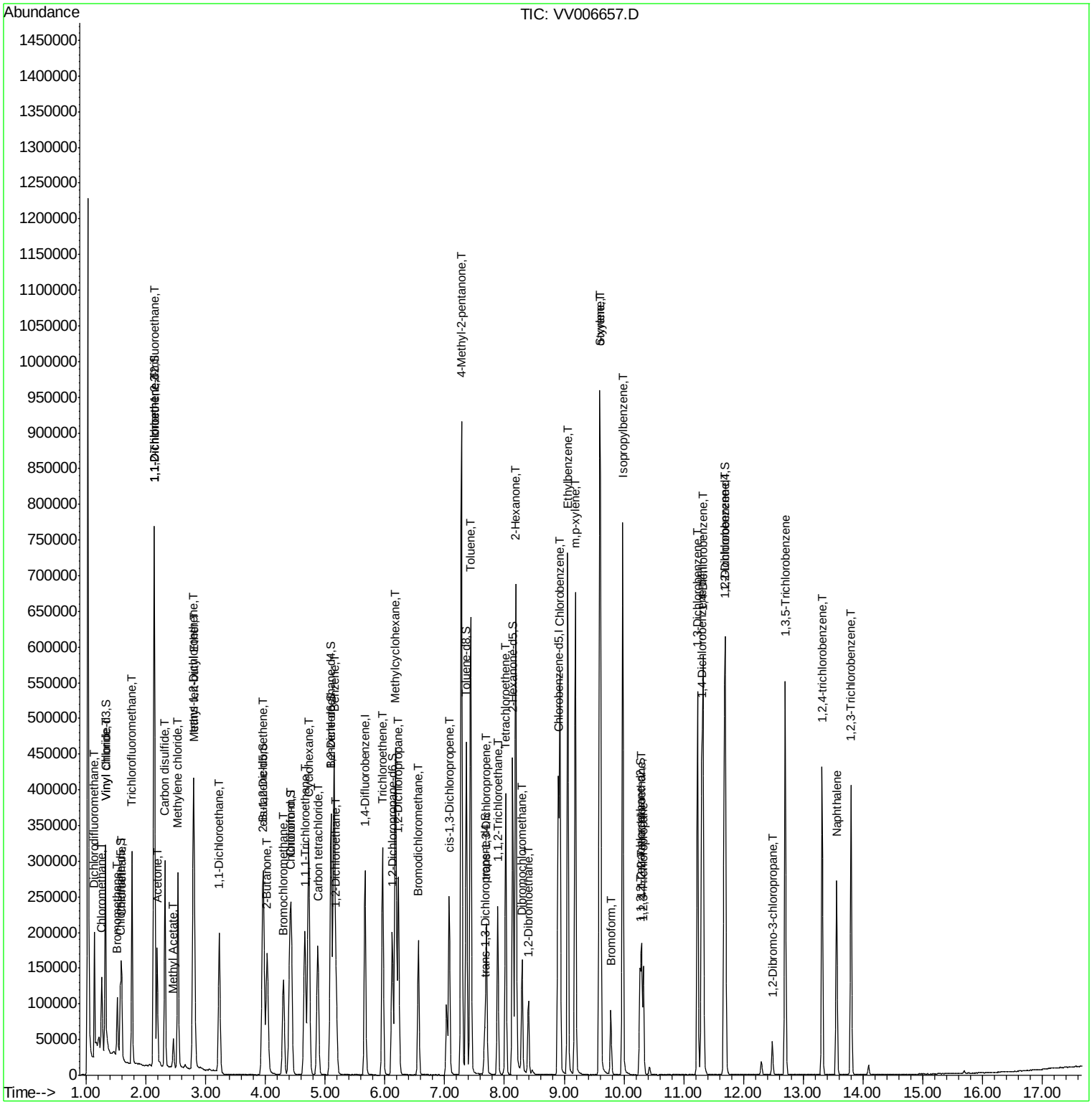
(#) = qualifier out of range (m) = manual integration (+) = signals summed

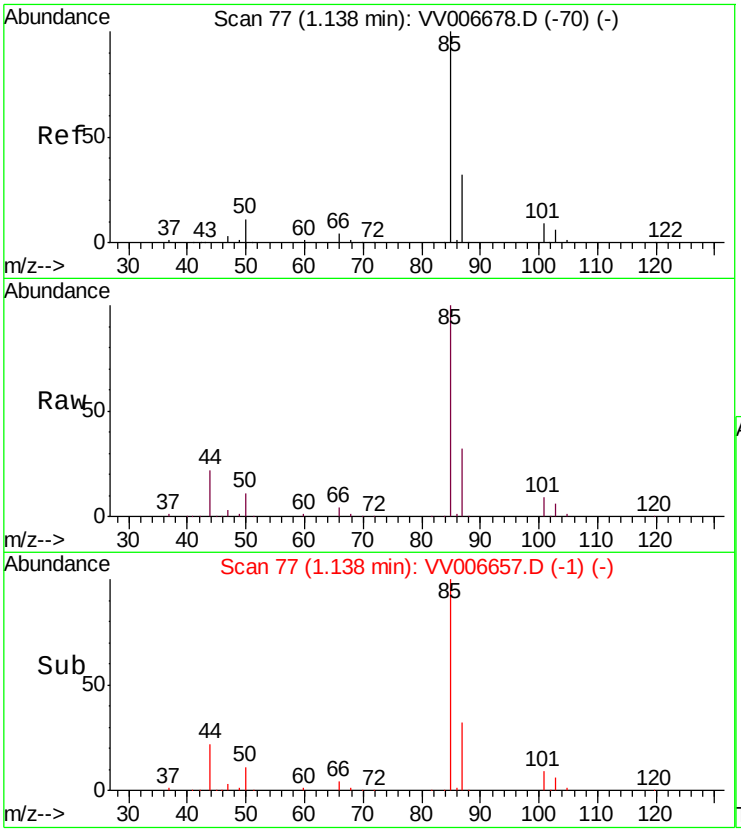
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV072018\
Data File : VV006657.D
Acq On : 20 Jul 2018 10:01
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Quant Time: Jul 26 02:02:37 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071918WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sun Jul 22 23:06:02 2018
Response via : Initial Calibration



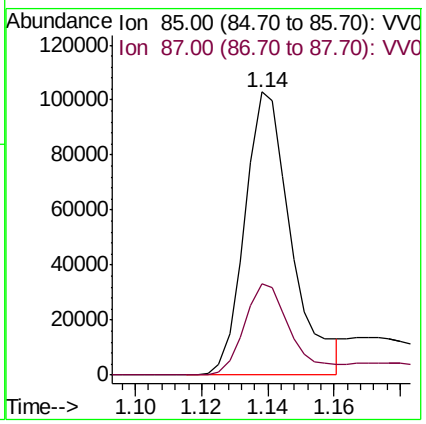


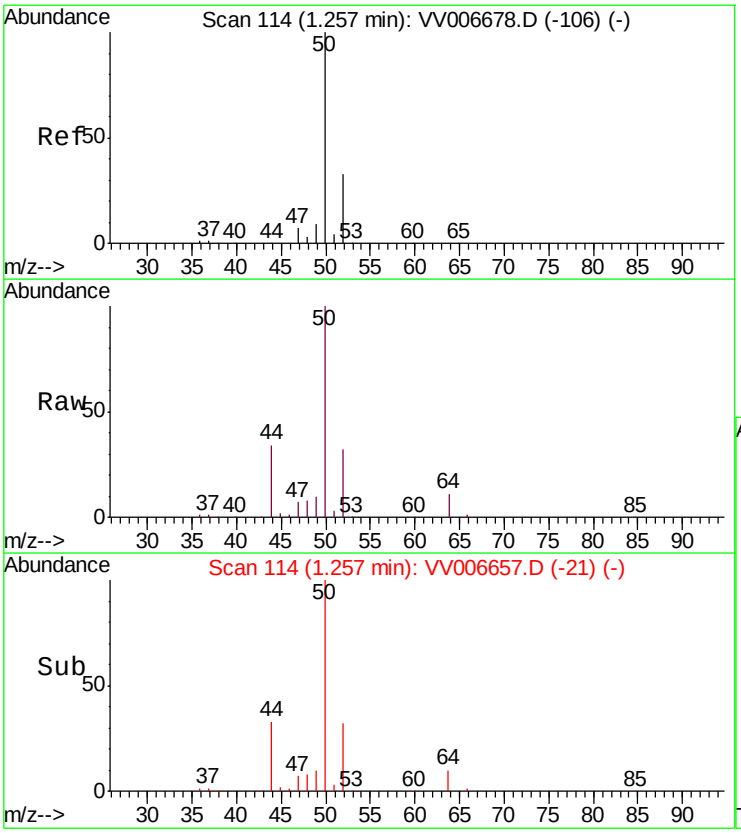

#2
Dichlorodifluoromethane
Concen: 4.253 ug/L
RT: 1.14 min Scan# 77
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 85 Resp: 100210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 19.4 | 29.2# |

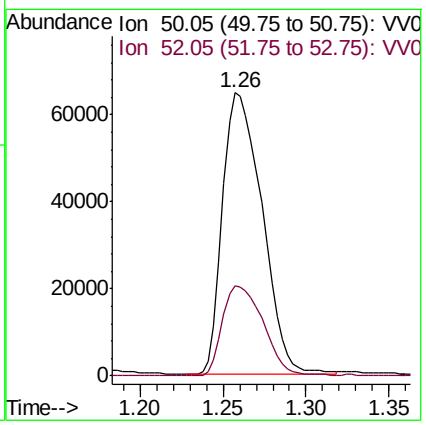


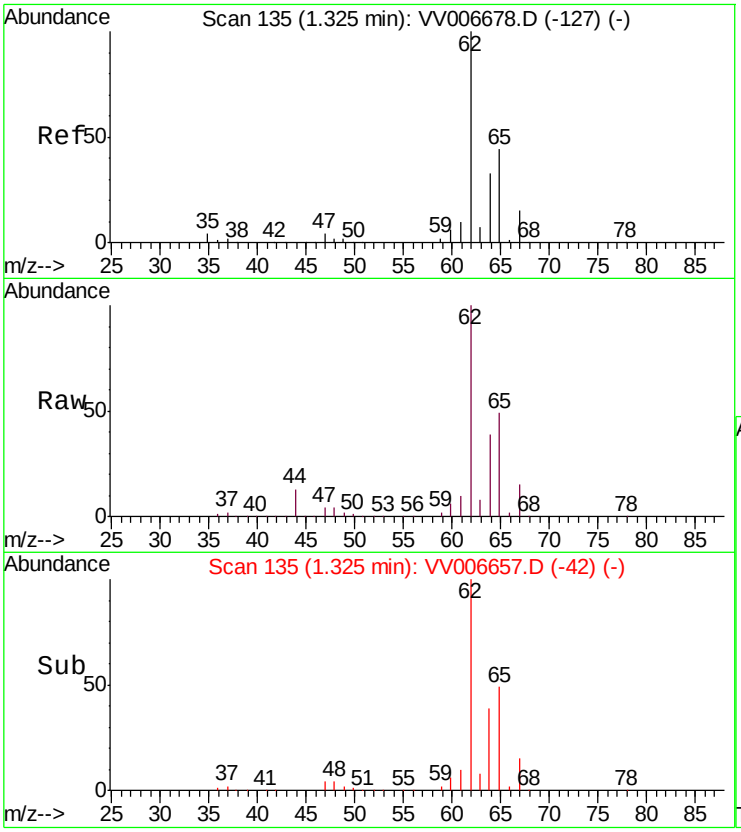




#3
Chloromethane
Concen: 5.400 ug/L
RT: 1.26 min Scan# 114
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 50 Resp: 107614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 23.2 | 43.0 |



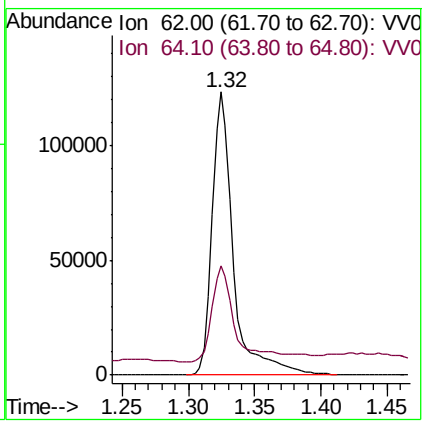


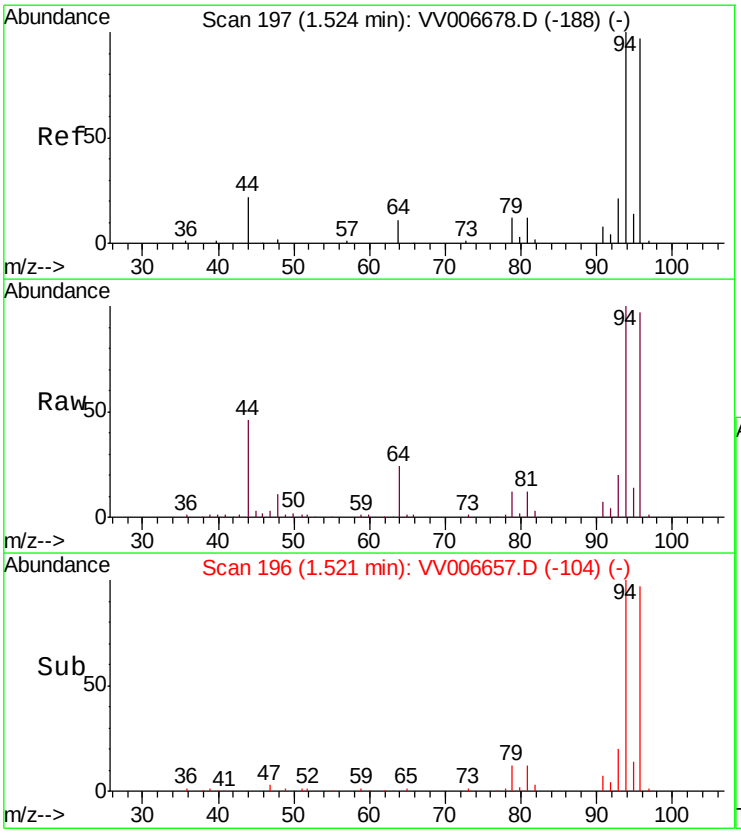

#5
Vinyl chloride
Concen: 5.339 ug/L
RT: 1.32 min Scan# 135
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 62 Resp: 137403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 38.6 | 23.7 | 44.1 |

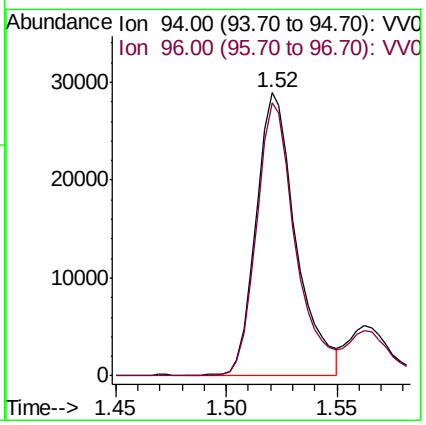


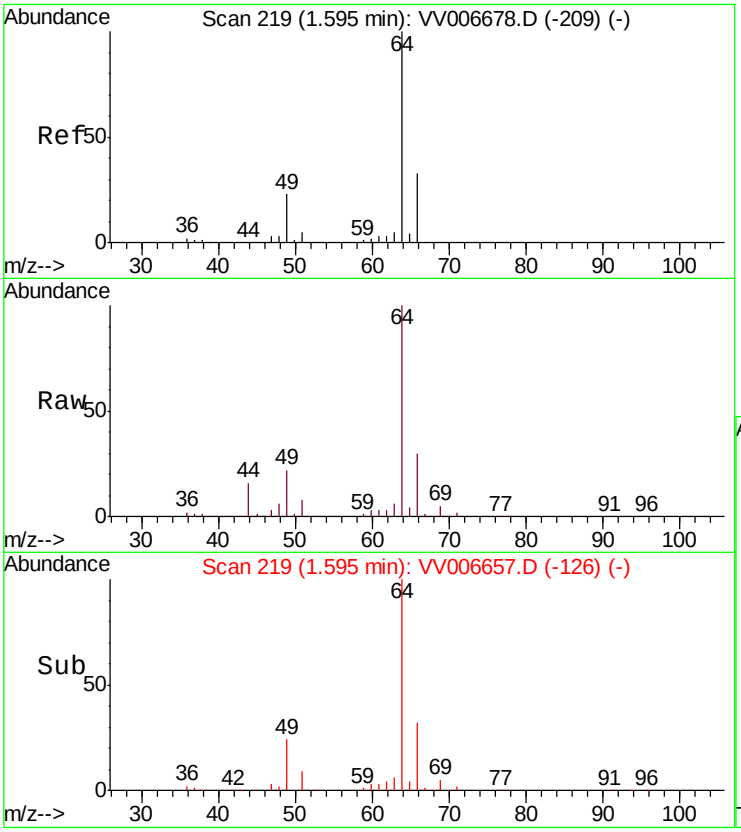




#6
Bromomethane
Concen: 4.995 ug/L
RT: 1.52 min Scan# 196
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 94 Resp: 36453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.7 | 64.5 | 119.7 |



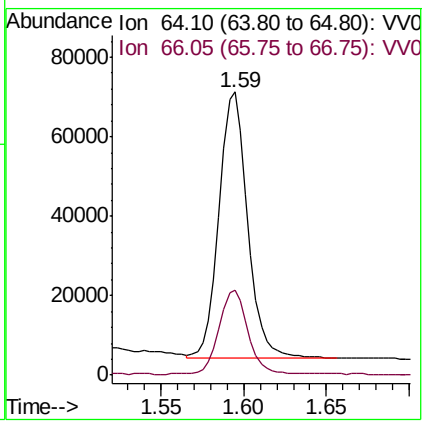


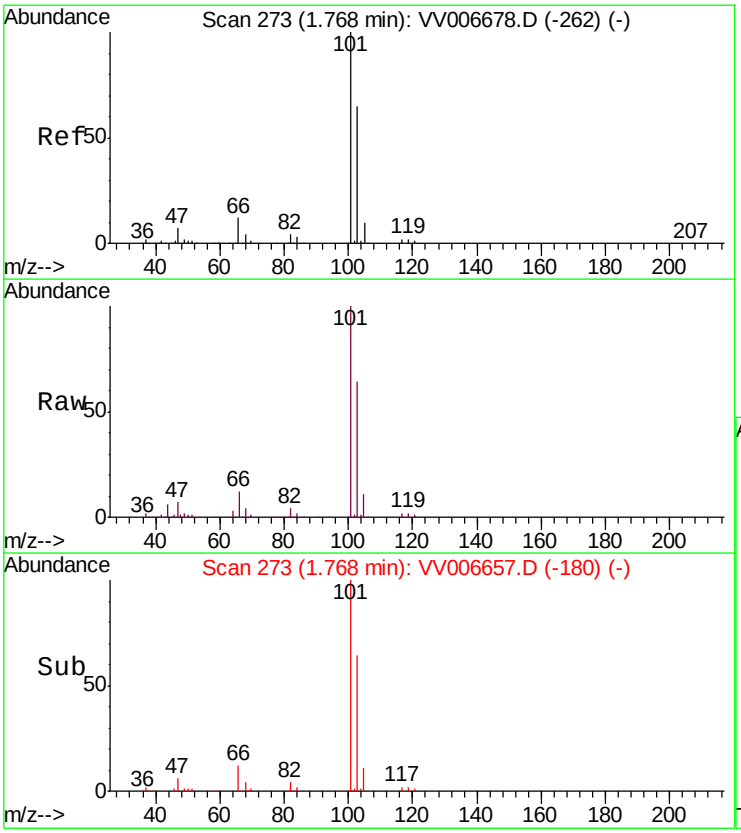

#8
Chloroethane
Concen: 5.467 ug/L
RT: 1.59 min Scan# 219
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 64 Resp: 80835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.1 | 21.1 | 39.3 |

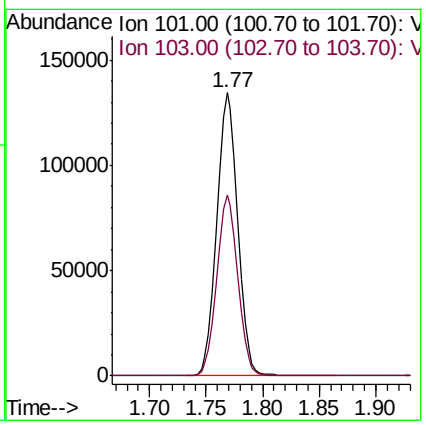


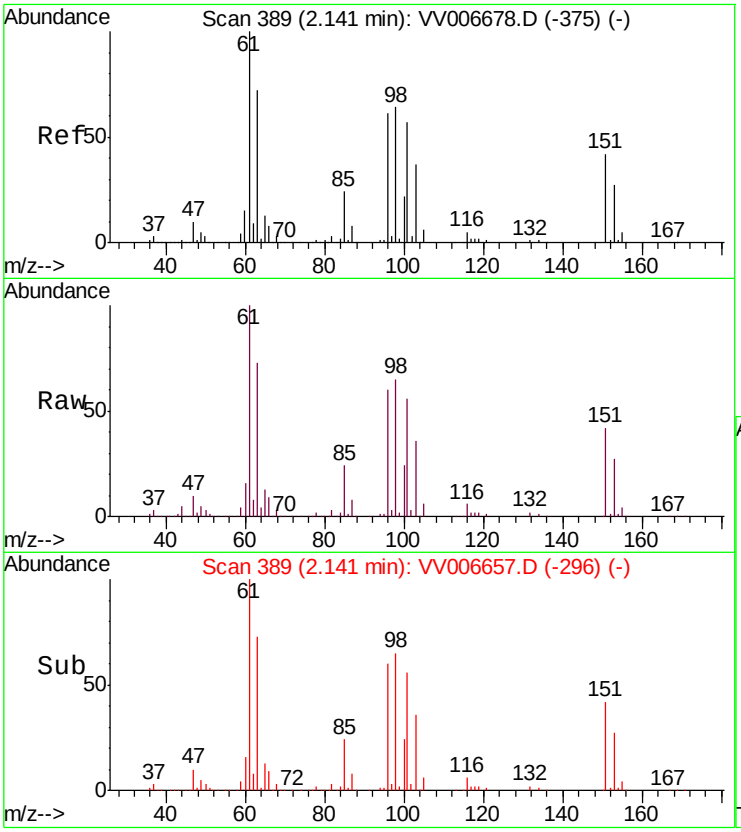




#9
Trichlorofluoromethane
Concen: 5.621 ug/L
RT: 1.77 min Scan# 273
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:101 Resp: 173627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.1 | 51.1 | 76.7 |



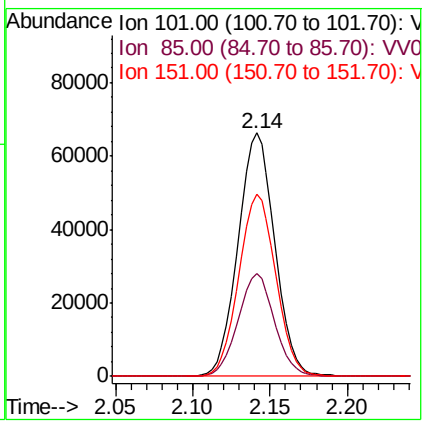


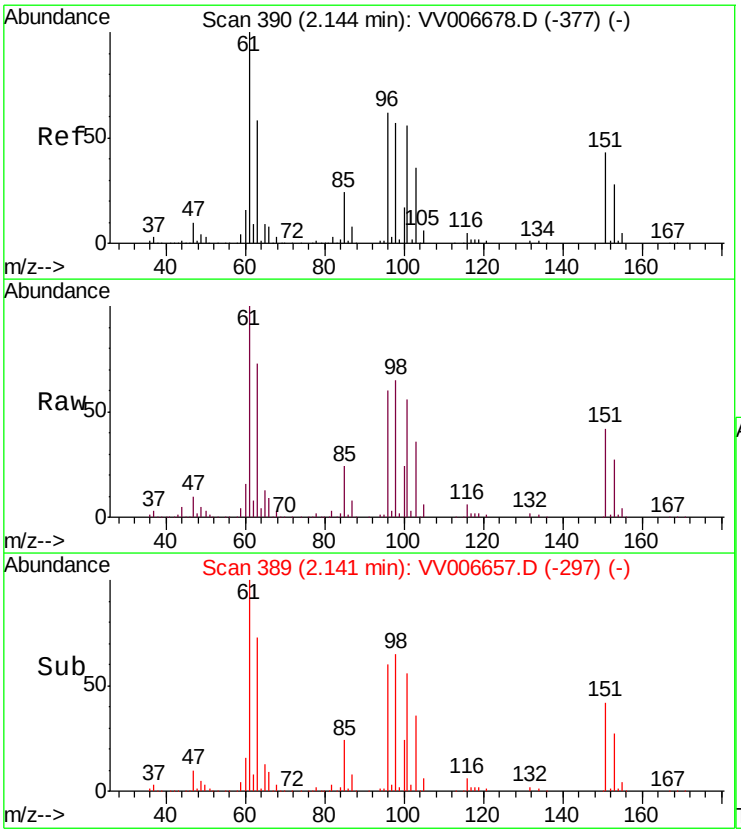

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.656 ug/L
RT: 2.14 min Scan# 389
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:101 Resp: 109499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 41.8 | 33.7 | 50.5 |
| 151 | 75.7 | 61.0 | 91.6 |

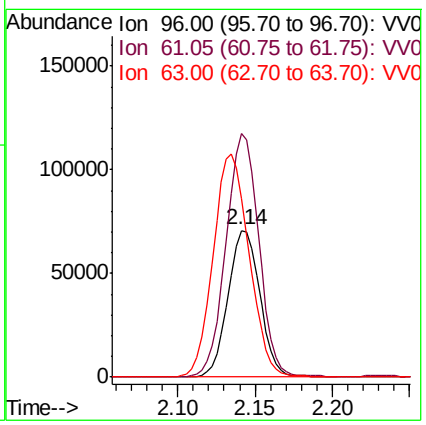


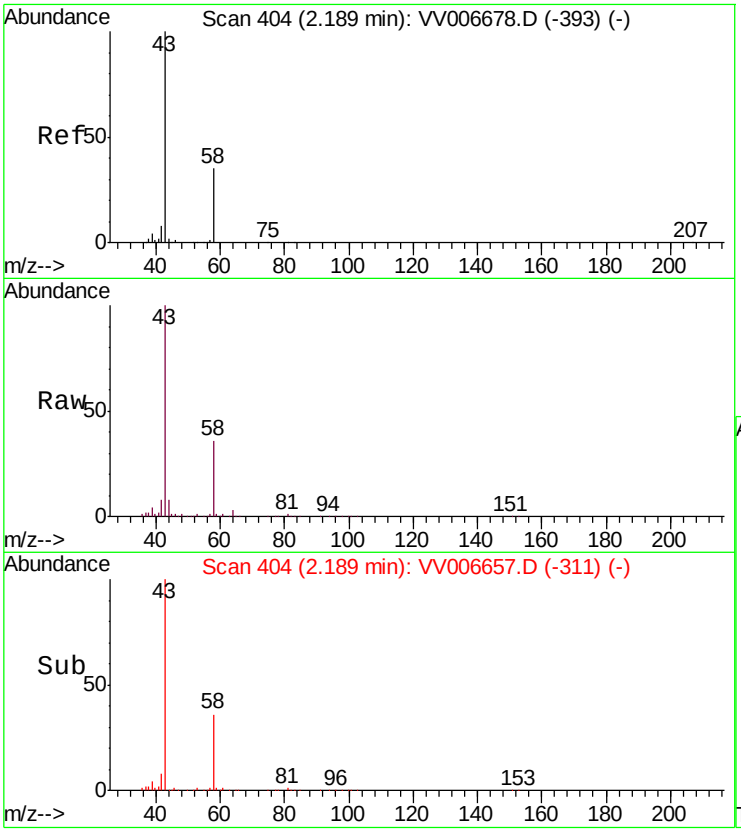




#12
1,1-Dichloroethene
Concen: 5.513 ug/L
RT: 2.14 min Scan# 389
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 96 Resp: 101148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.3 | 115.1 | 213.8 |
| 63 | 121.8 | 77.2 | 143.4 |



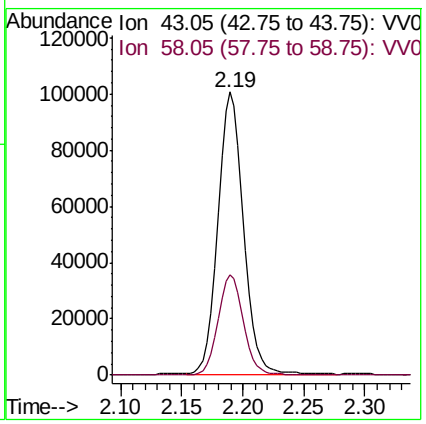


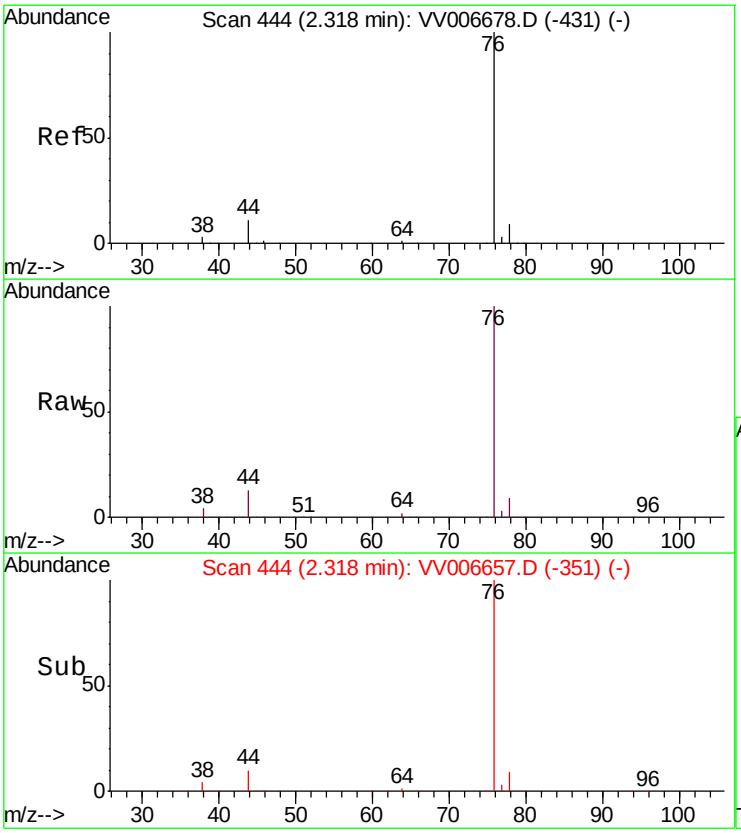

#13
Acetone
Concen: 50.832 ug/L
RT: 2.19 min Scan# 404
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 43 Resp: 147261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.3 | 0.0 | 72.8 |

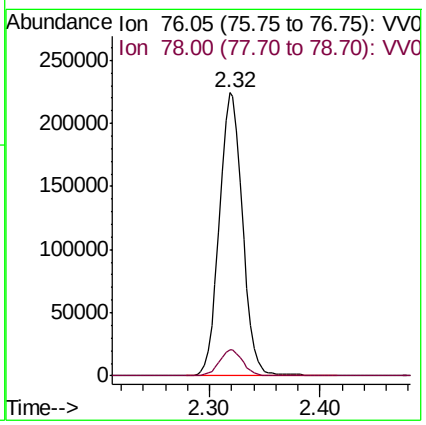


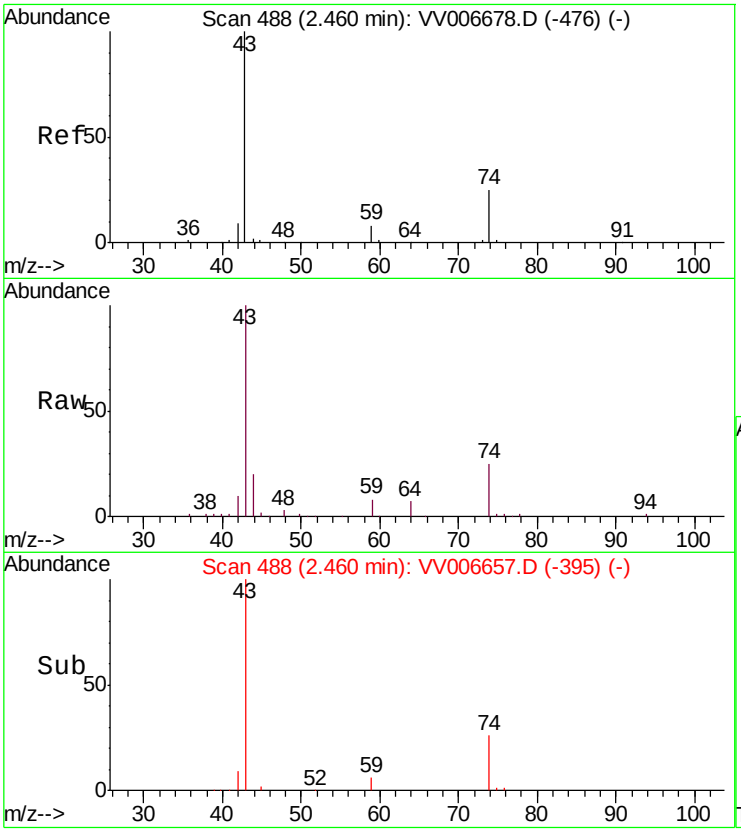




#14
Carbon disulfide
Concen: 5.502 ug/L
RT: 2.32 min Scan# 444
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 76 Resp: 327354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.3 | 10.9 |



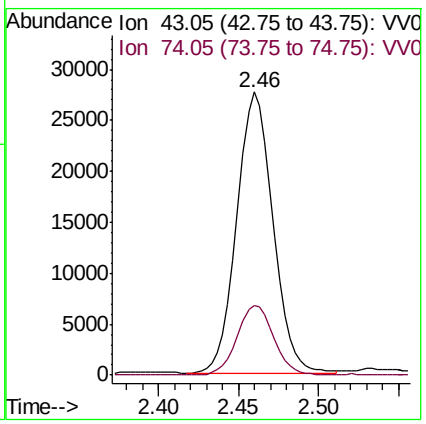


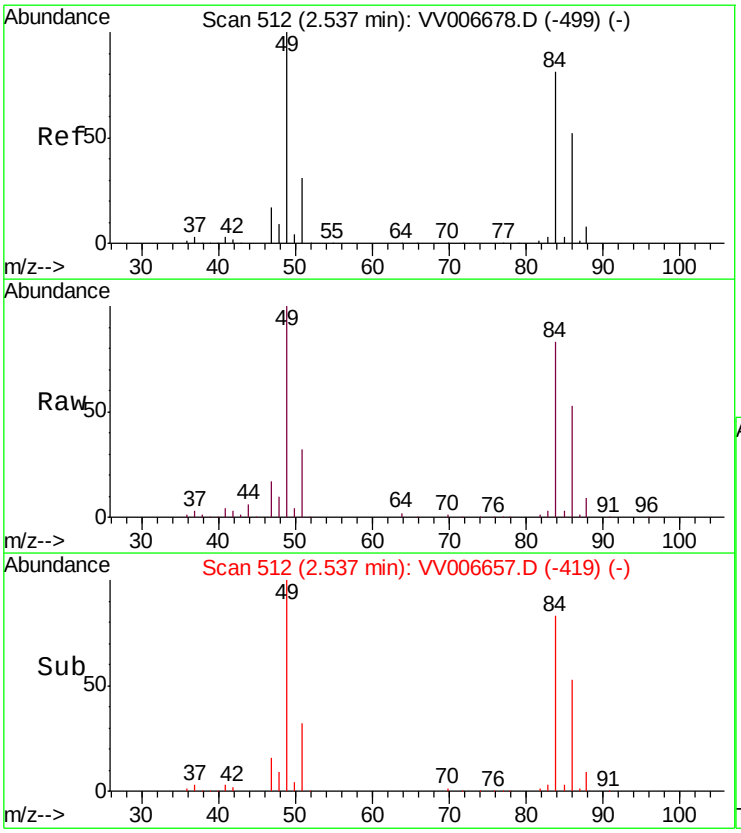

#15
Methyl Acetate
Concen: 5.012 ug/L
RT: 2.46 min Scan# 488
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 43 Resp: 42602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.1 | 20.3 | 30.5 |

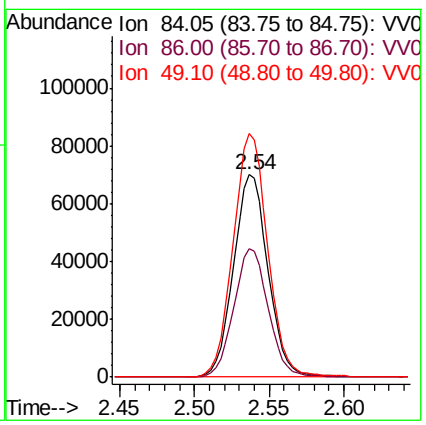


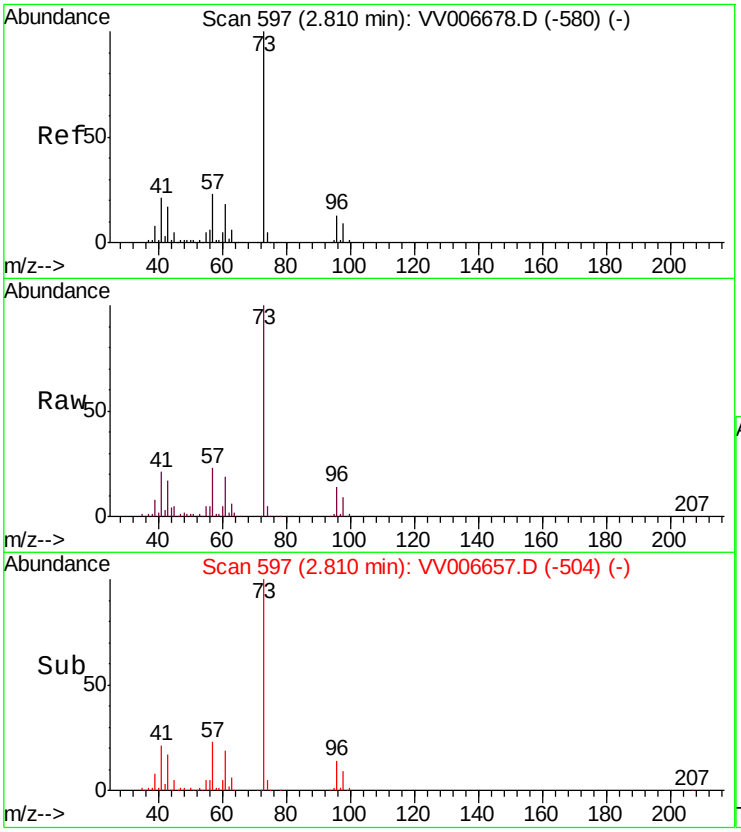




#16
Methylene chloride
Concen: 4.857 ug/L
RT: 2.54 min Scan# 512
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 84 Resp: 112112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 63.7 | 45.4 | 84.2 |
| 49 | 120.4 | 85.1 | 158.1 |



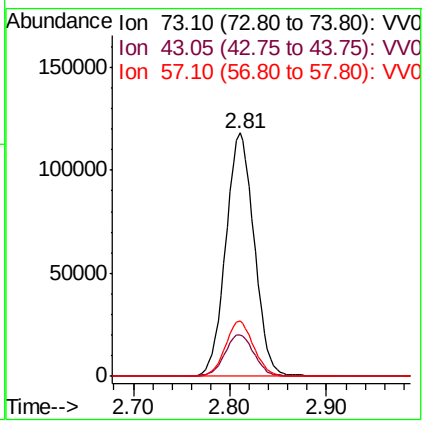


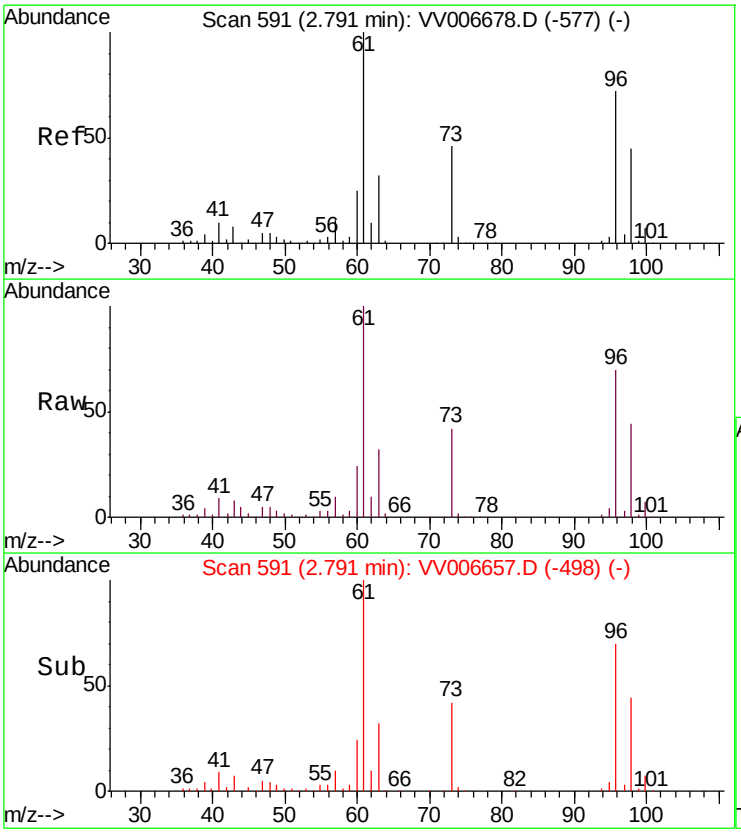

#17
Methyl tert-butyl Ether
Concen: 5.311 ug/L
RT: 2.81 min Scan# 597
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 73 Resp: 240542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 17.1 | 13.9 | 20.9 |
| 57 | 22.6 | 17.9 | 26.9 |

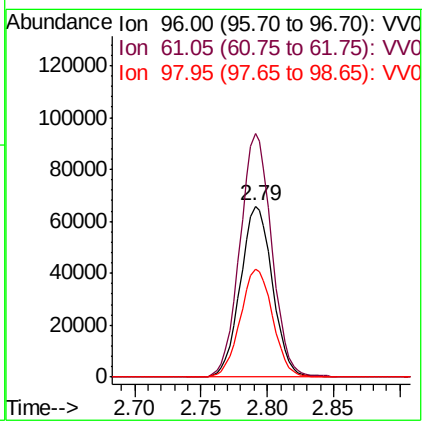


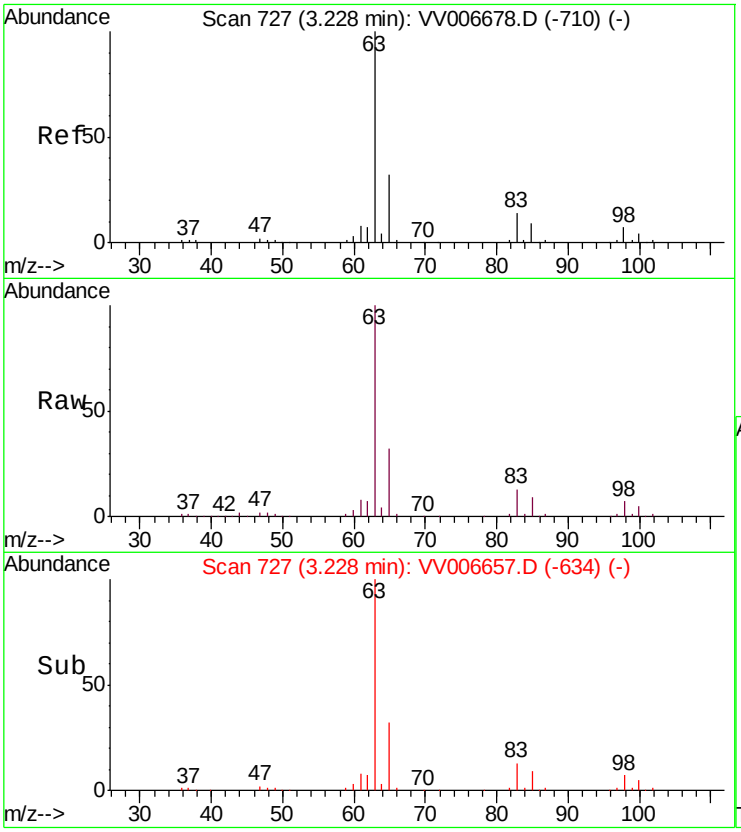




#18
trans-1,2-Dichloroethene
Concen: 5.484 ug/L
RT: 2.79 min Scan# 591
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 96 Resp: 110899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.2 | 96.0 | 178.4 |
| 98 | 63.2 | 43.5 | 80.9 |



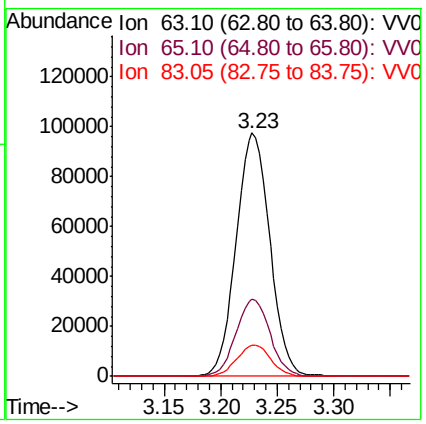


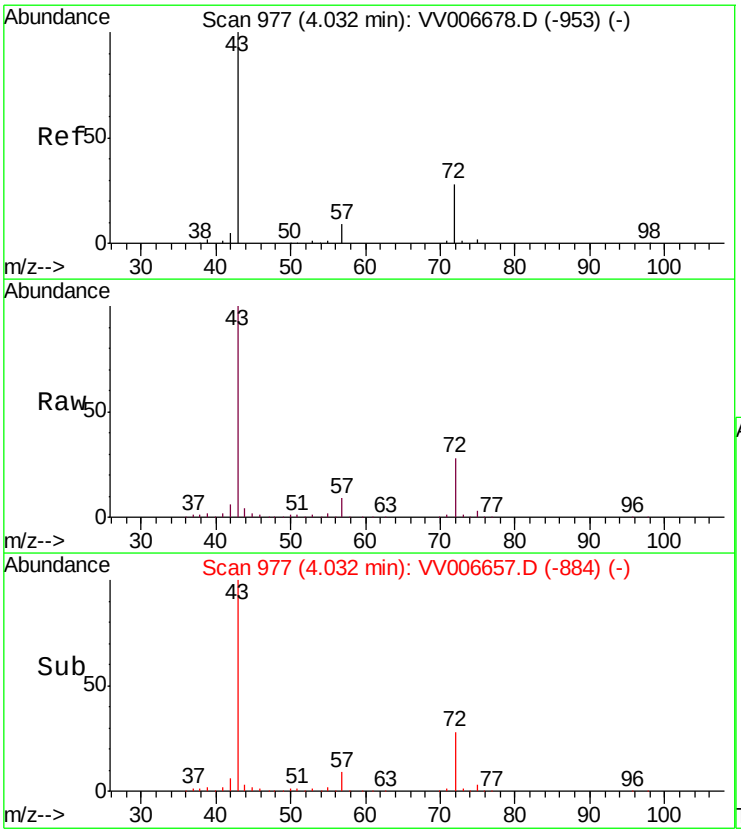

#19
1,1-Dichloroethane
Concen: 5.684 ug/L
RT: 3.23 min Scan# 727
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD00571

Tgt Ion: 63 Resp: 202925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.8 | 22.1 | 41.1 |
| 83 | 12.9 | 9.2 | 17.0 |

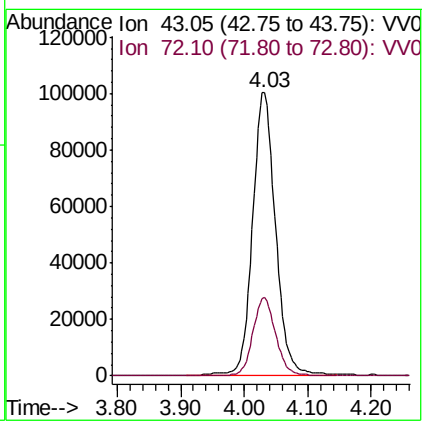


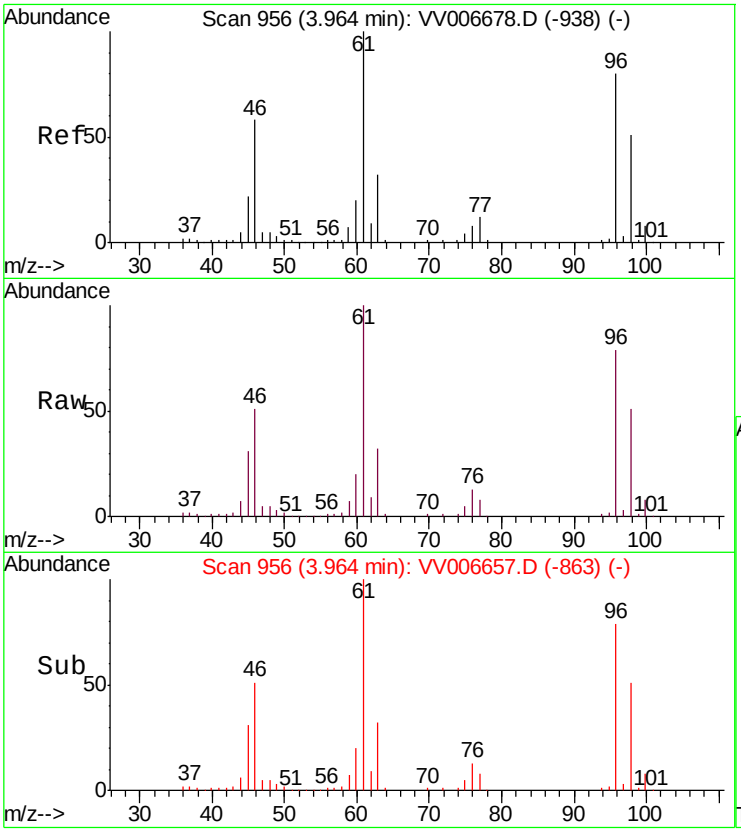




#21
2-Butanone
Concen: 52.244 ug/L
RT: 4.03 min Scan# 977
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 43 Resp: 253498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.4 | 13.9 | 41.6 |



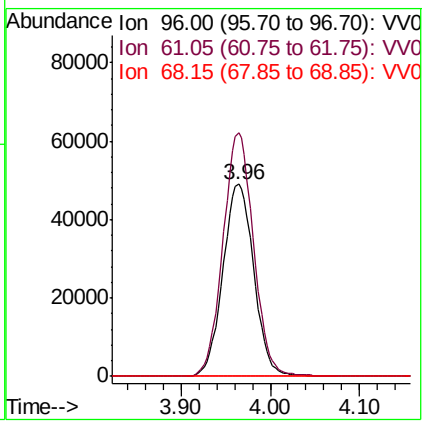


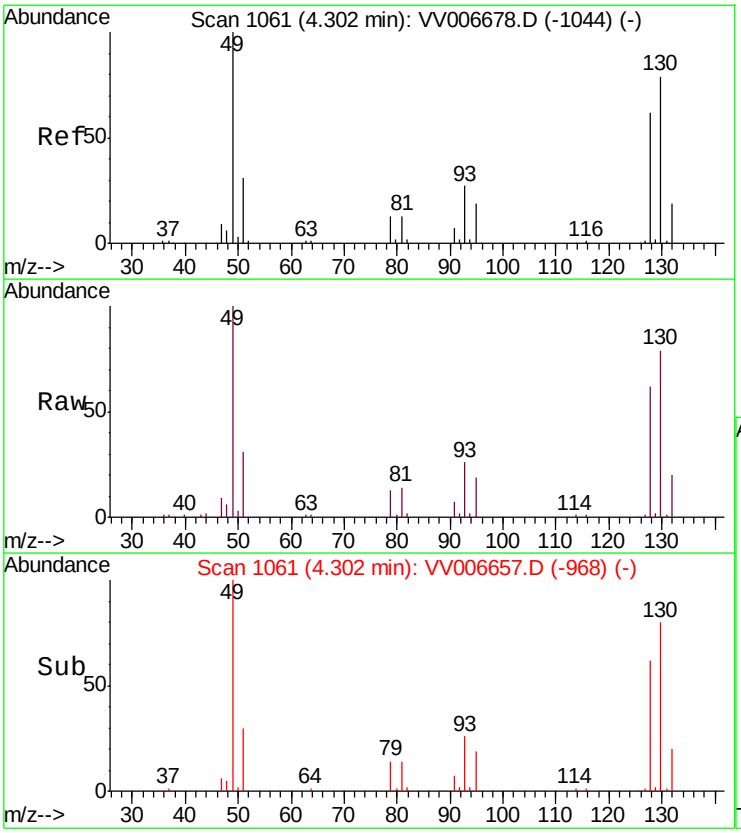

#22
cis-1,2-Dichloroethene
Concen: 5.546 ug/L
RT: 3.96 min Scan# 956
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 96 Resp: 117417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.8 | 86.2 | 160.0 |
| 68 | 0.0 | 0.0 | 0.0 |

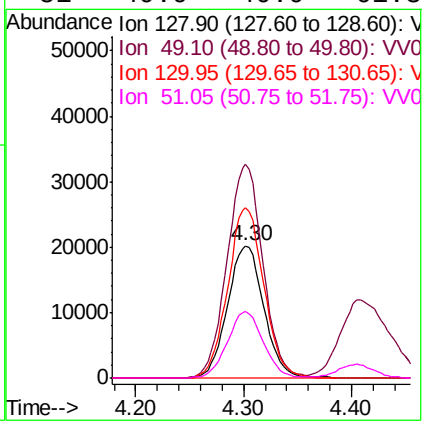


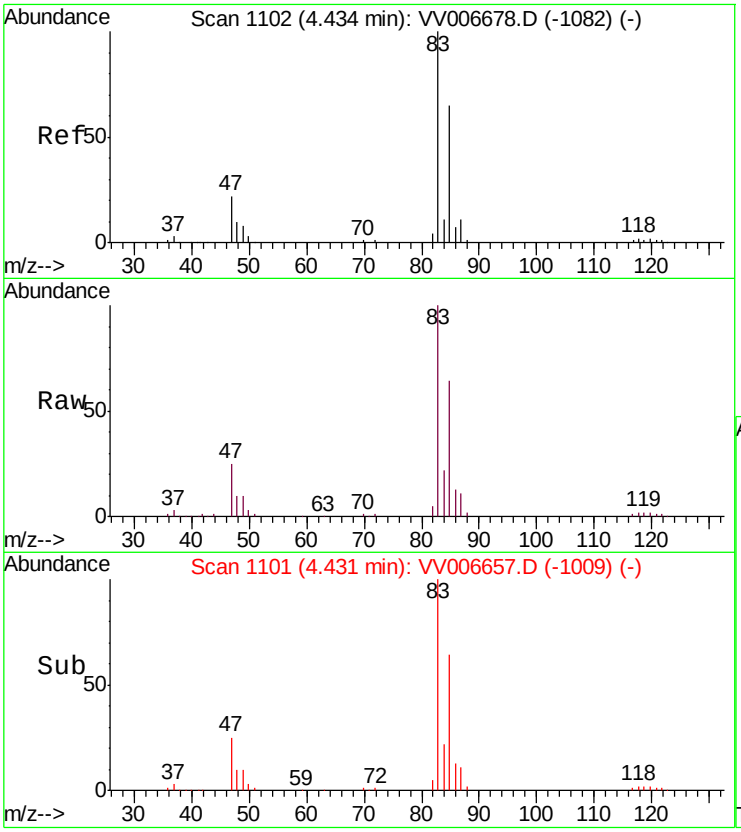




#23
Bromochloromethane
Concen: 5.482 ug/L
RT: 4.30 min Scan# 1061
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:128 Resp: 47256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 161.7 | 113.0 | 209.8 |
| 130 | 128.4 | 89.3 | 165.9 |
| 51 | 49.9 | 40.9 | 61.3 |



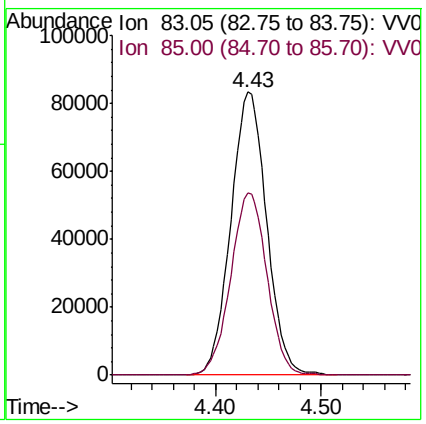


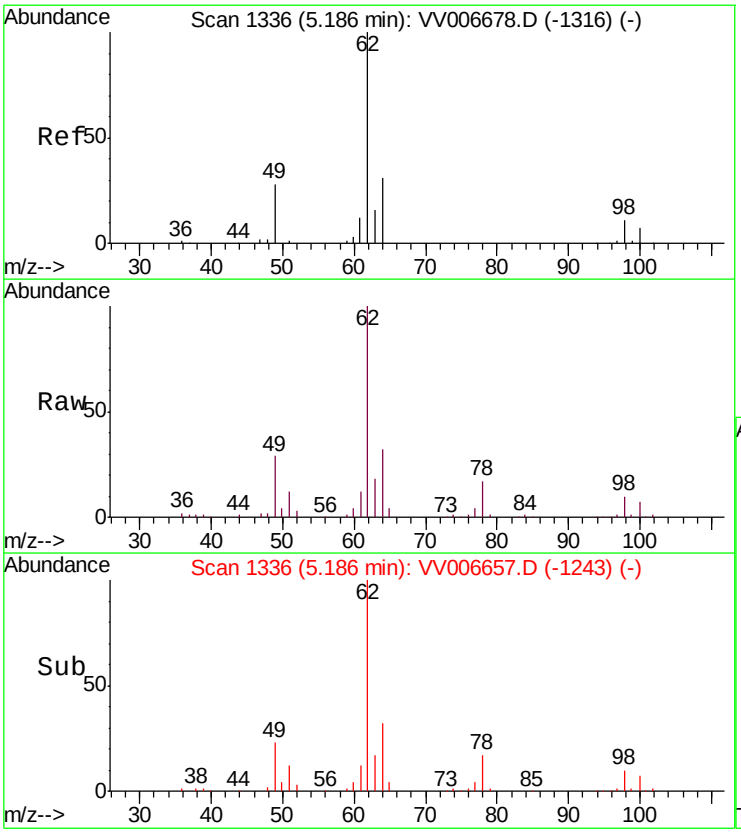

#25
Chloroform
Concen: 5.706 ug/L
RT: 4.43 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 83 Resp: 196295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 46.1 | 85.7 |

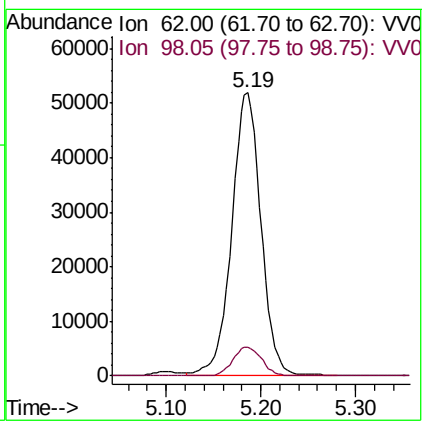


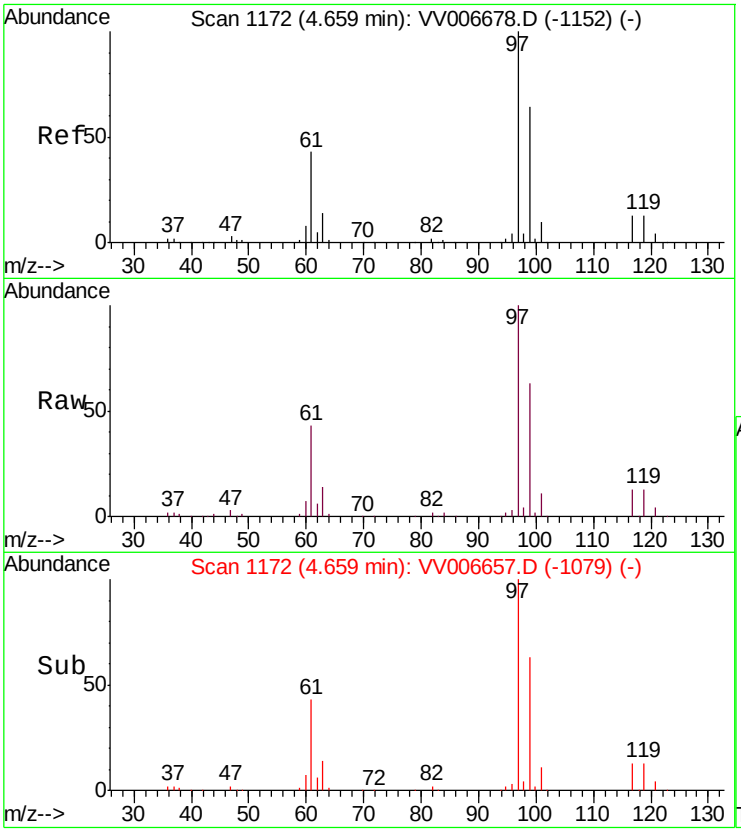




#27
1,2-Dichloroethane
Concen: 5.515 ug/L
RT: 5.19 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 62 Resp: 110852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 8.4 | 12.6 |



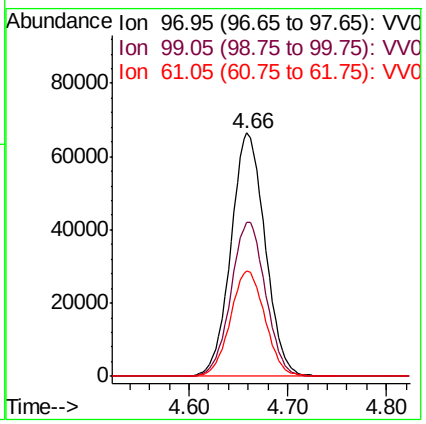


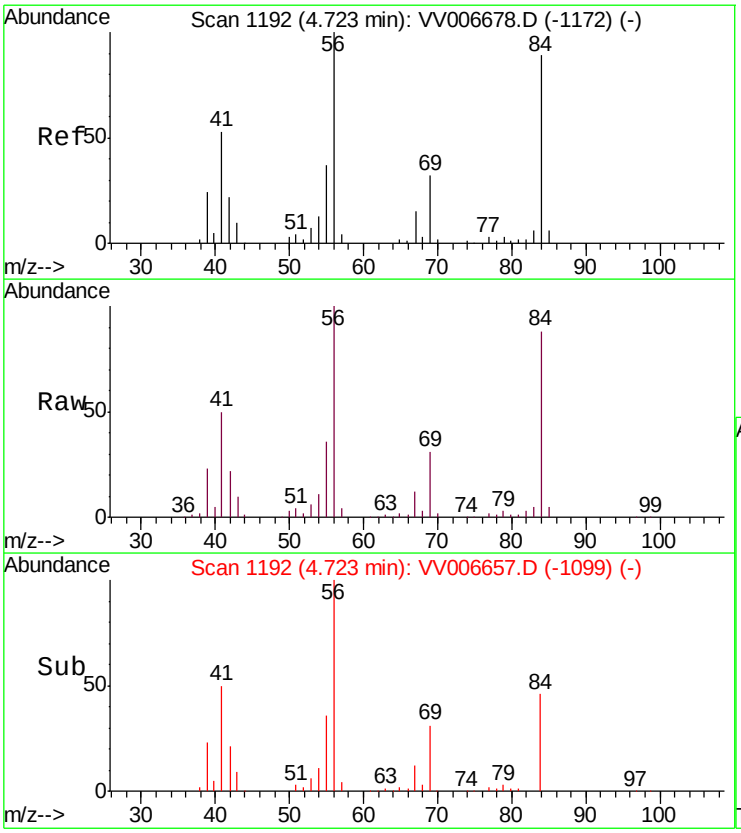

#29
1,1,1-Trichloroethane
Concen: 5.643 ug/L
RT: 4.66 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 97 Resp: 160030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.5 | 77.3 |
| 61 | 44.1 | 35.4 | 53.2 |

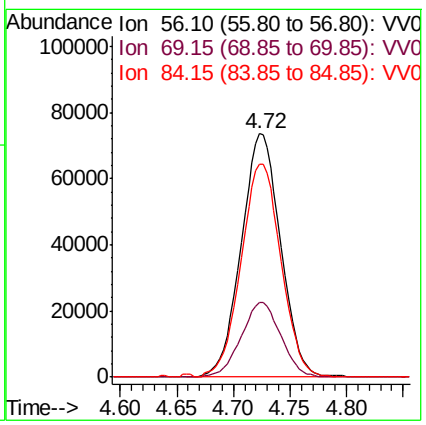


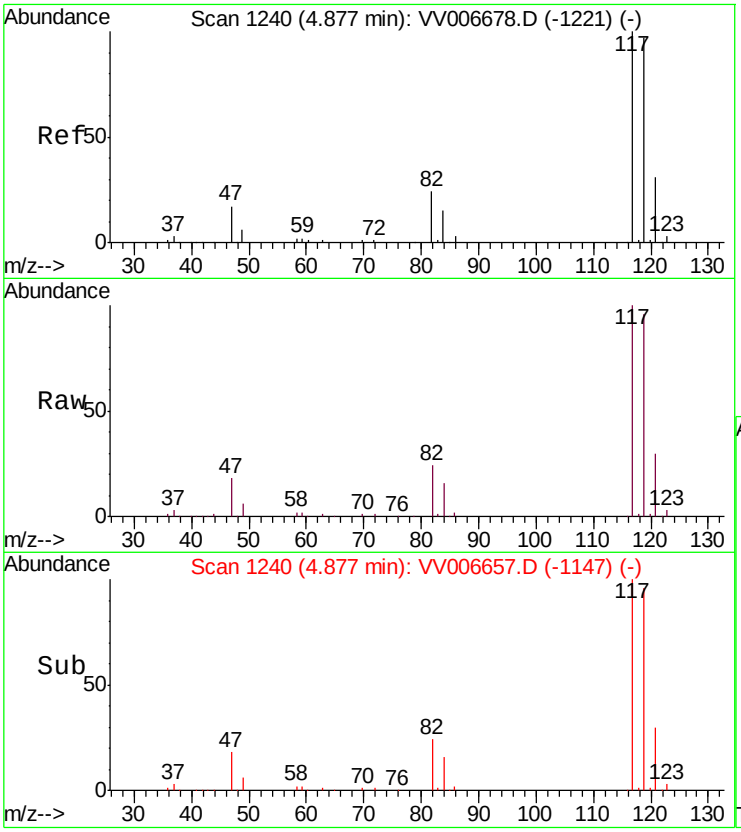




#30
Cyclohexane
Concen: 5.609 ug/L
RT: 4.72 min Scan# 1192
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 56 Resp: 177837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.9 | 24.0 | 36.0 |
| 84 | 89.1 | 71.0 | 106.6 |



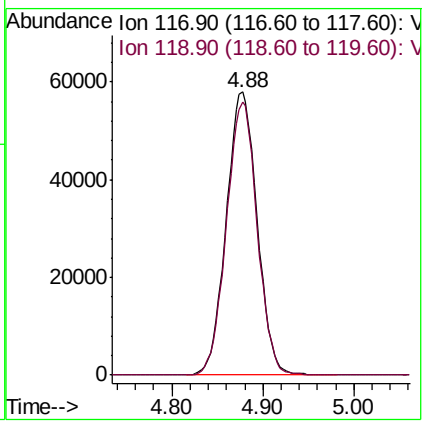


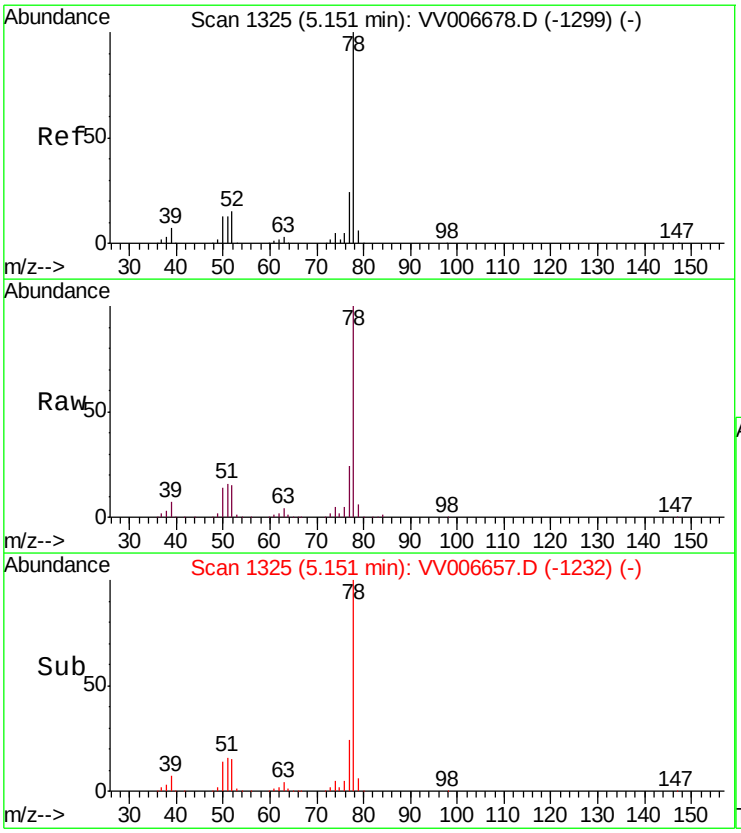

#31
Carbon tetrachloride
Concen: 5.624 ug/L
RT: 4.88 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:117 Resp: 136433

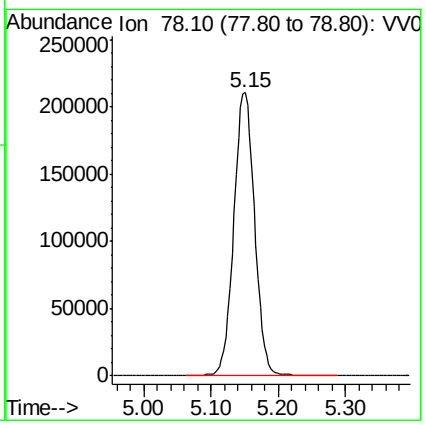
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.1 | 77.0 | 115.6 |

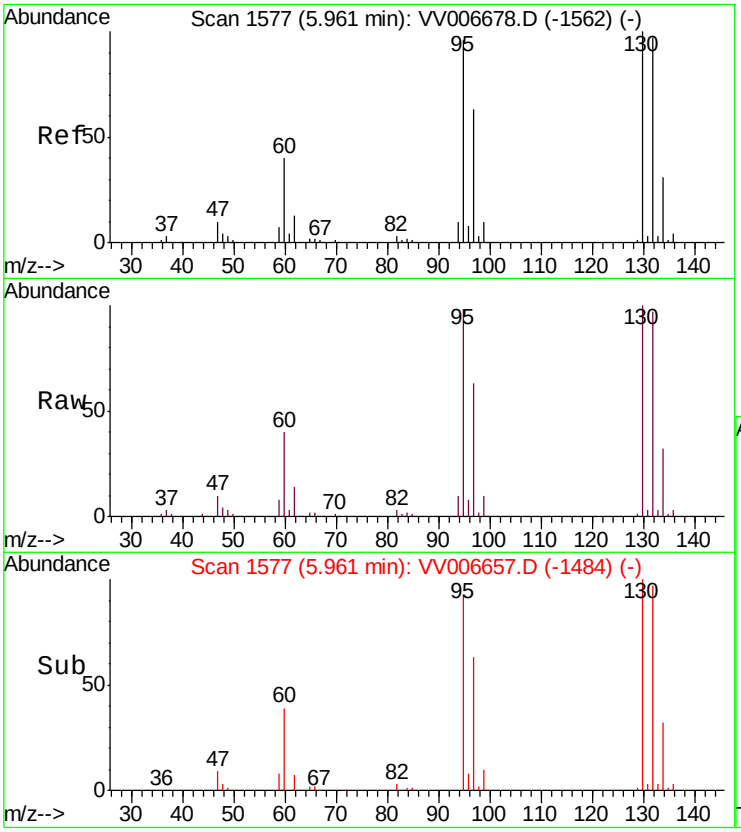



#33
Benzene
Concen: 5.662 ug/L
RT: 5.15 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 78 Resp: 451900



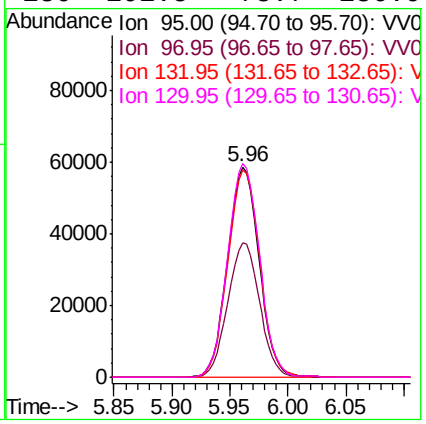


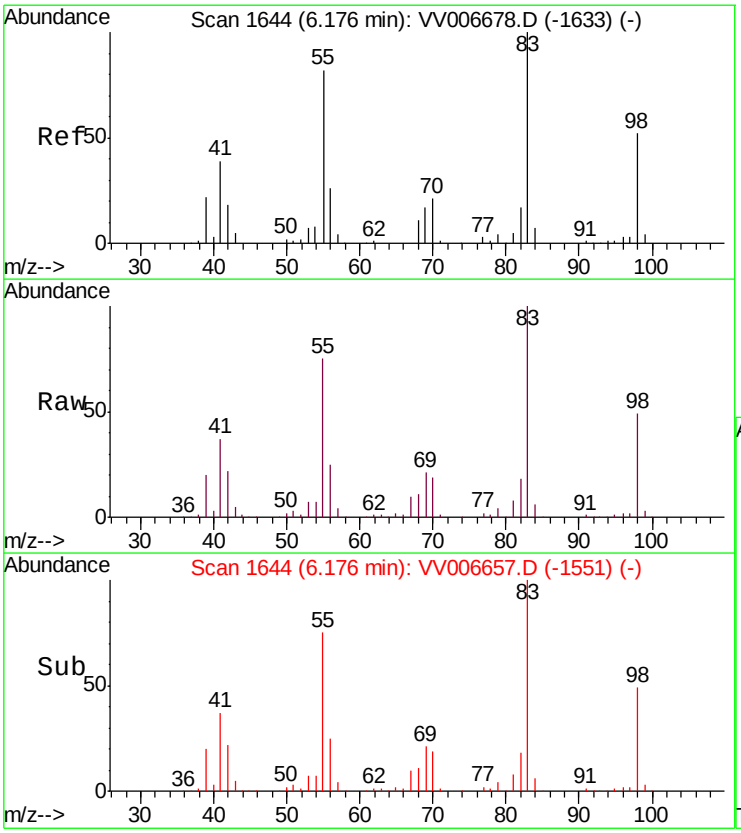

#34
Trichloroethene
Concen: 5.474 ug/L
RT: 5.96 min Scan# 1577
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 95 Resp: 110547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 64.1 | 45.3 | 84.1 |
| 132 | 98.4 | 70.3 | 130.7 |
| 130 | 101.5 | 73.7 | 136.9 |

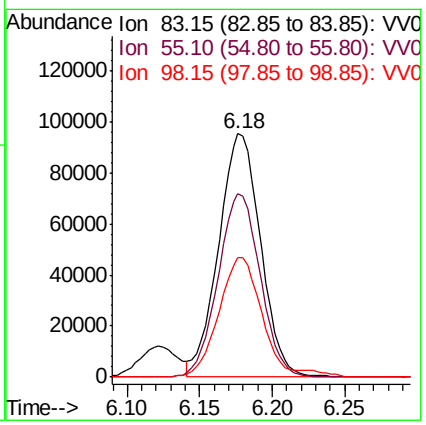


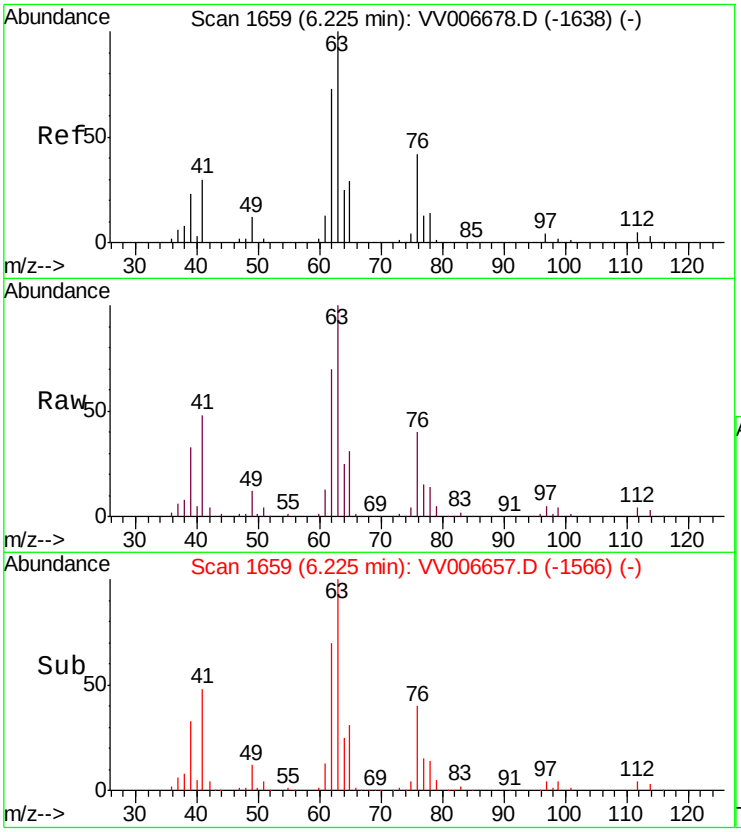




#35
Methylcyclohexane
Concen: 5.681 ug/L
RT: 6.18 min Scan# 1644
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 83 Resp: 191484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.6 | 61.3 | 91.9 |
| 98 | 51.5 | 39.4 | 59.0 |



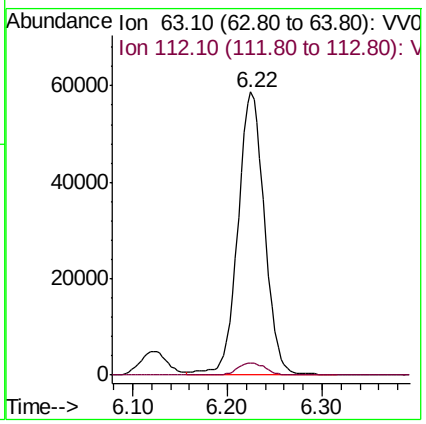


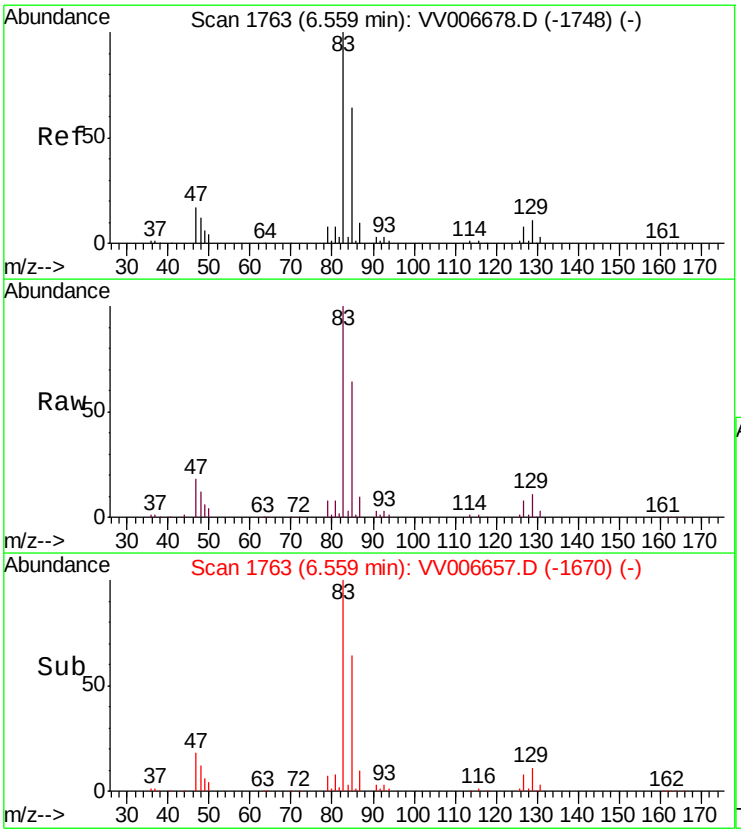

#37
1,2-Dichloropropane
Concen: 5.643 ug/L
RT: 6.22 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD00571

Tgt Ion: 63 Resp: 114891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 4.5 | 3.6 | 5.4 |

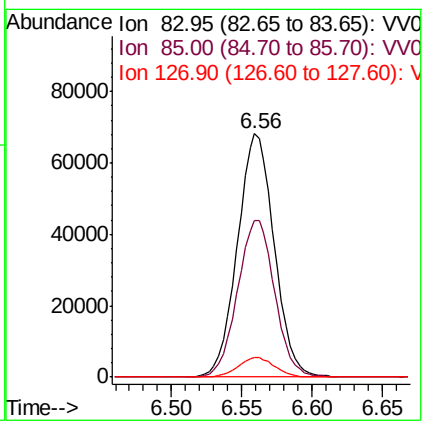


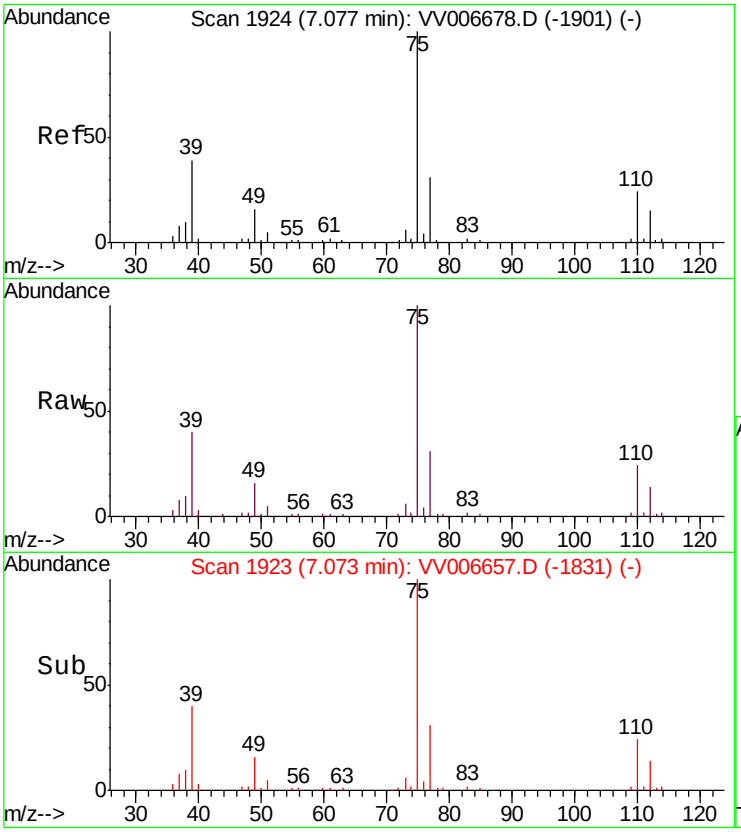




#38
Bromodichloromethane
Concen: 5.501 ug/L
RT: 6.56 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 83 Resp: 124419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 44.3 | 82.3 |
| 127 | 8.2 | 6.5 | 9.7 |



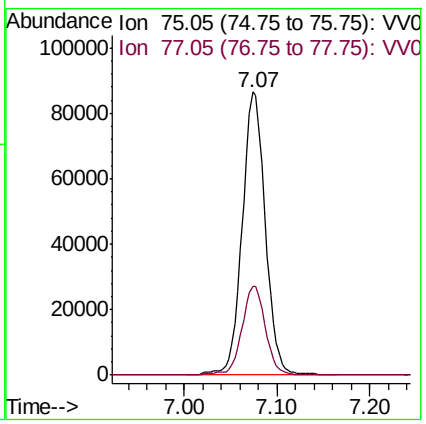


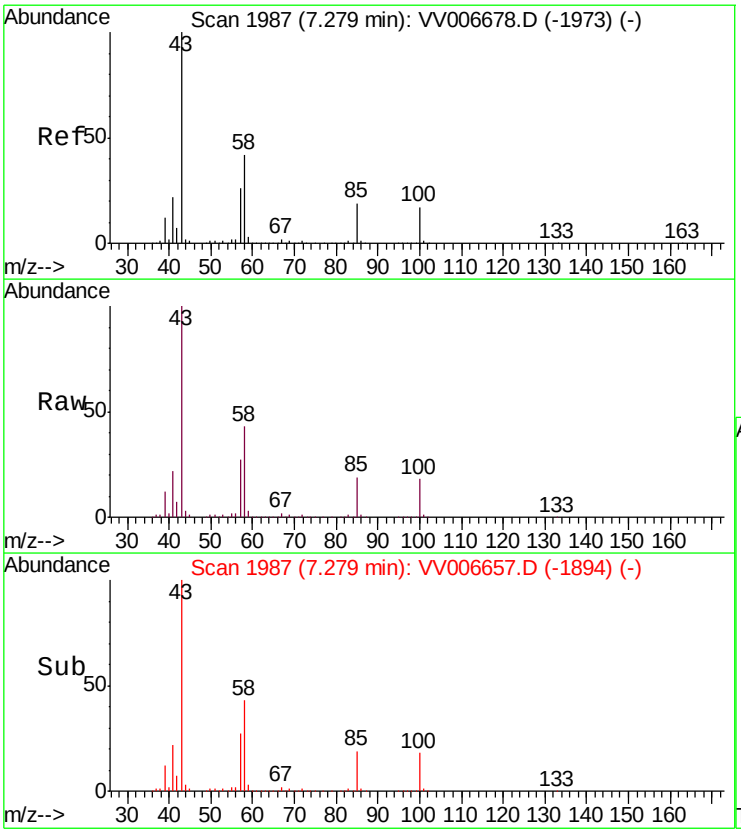

#39
cis-1,3-Dichloropropene
Concen: 5.596 ug/L
RT: 7.07 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 75 Resp: 149842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 22.2 | 41.2 |

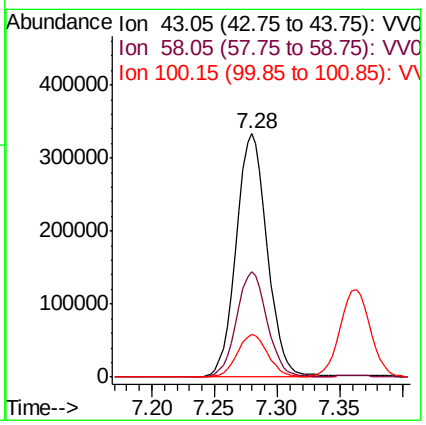


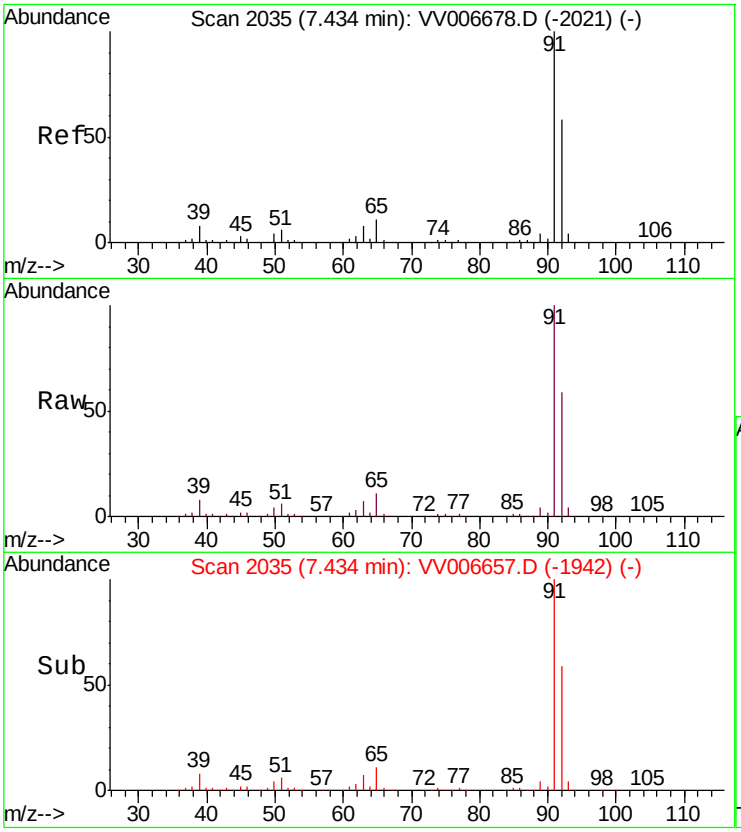




#40
4-Methyl-2-pentanone
Concen: 52.203 ug/L
RT: 7.28 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 43 Resp: 574604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.6 | 33.6 | 50.4 |
| 100 | 17.3 | 13.8 | 20.8 |



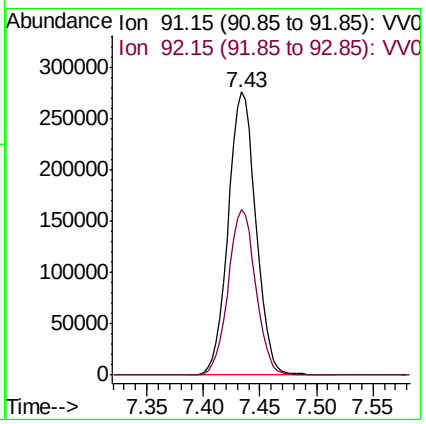


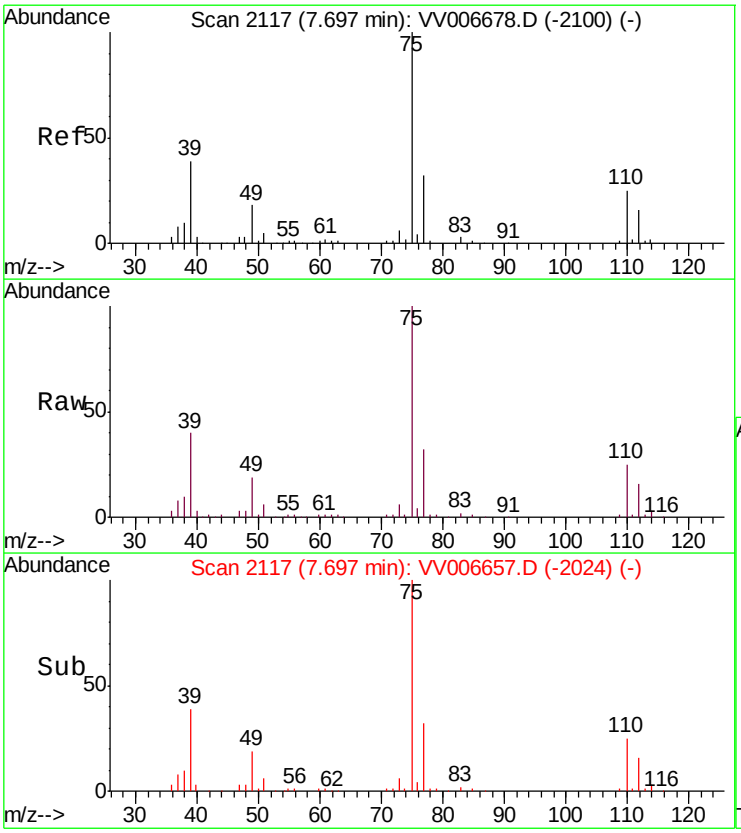

#42
Toluene
Concen: 5.713 ug/L
RT: 7.43 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 91 Resp: 471287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.6 | 41.4 | 76.8 |

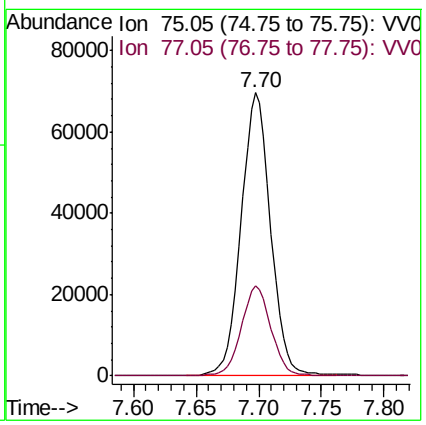


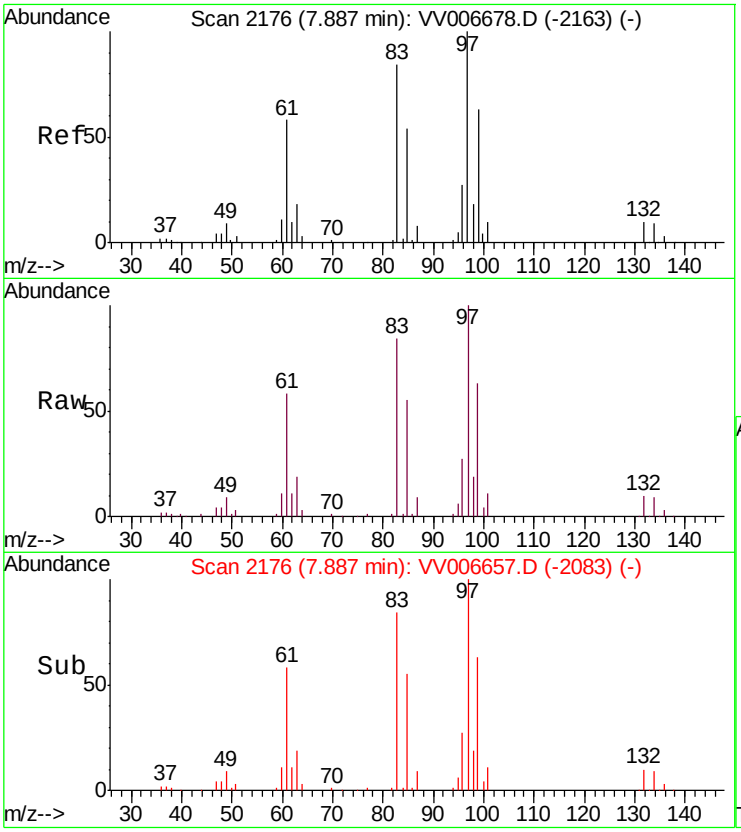




#44
trans-1,3-Dichloropropene
Concen: 5.468 ug/L
RT: 7.70 min Scan# 2117
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 75 Resp: 113823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 22.1 | 41.1 |



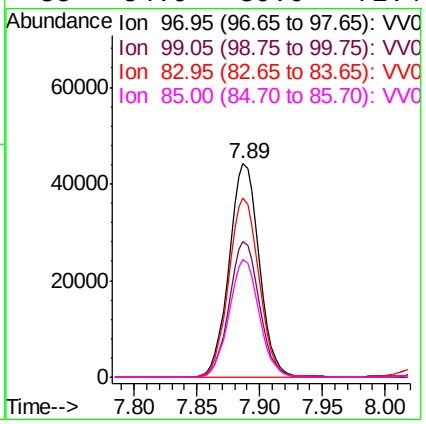


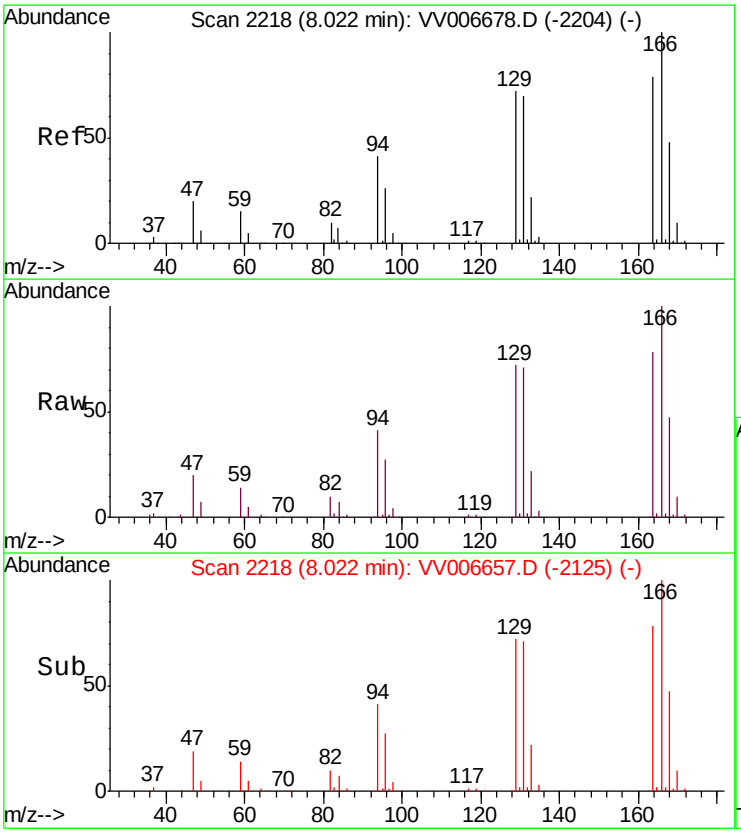

#45
1,1,2-Trichloroethane
Concen: 5.382 ug/L
RT: 7.89 min Scan# 2176
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 97 Resp: 73730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 45.2 | 84.0 |
| 83 | 83.7 | 60.5 | 112.3 |
| 85 | 54.9 | 39.0 | 72.4 |

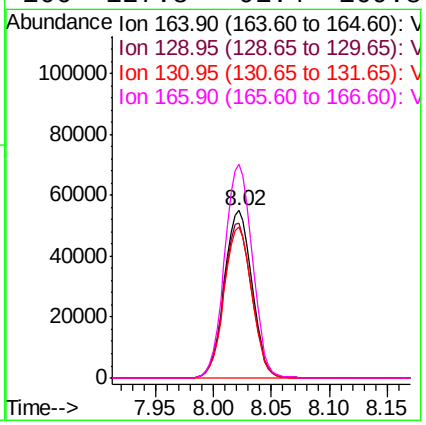


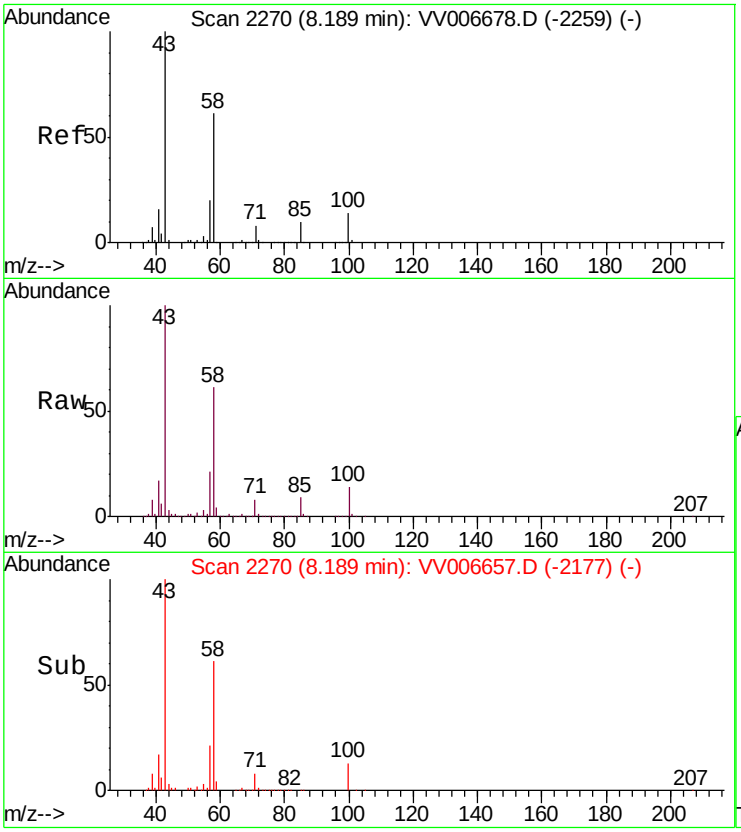




#47
Tetrachloroethene
Concen: 5.638 ug/L
RT: 8.02 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:164 Resp: 91445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 92.5 | 65.9 | 122.5 |
| 131 | 90.2 | 62.9 | 116.7 |
| 166 | 127.8 | 91.4 | 169.8 |



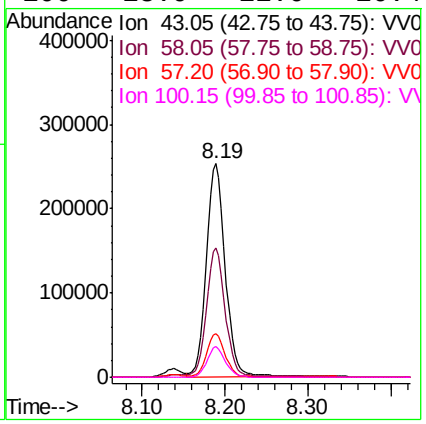


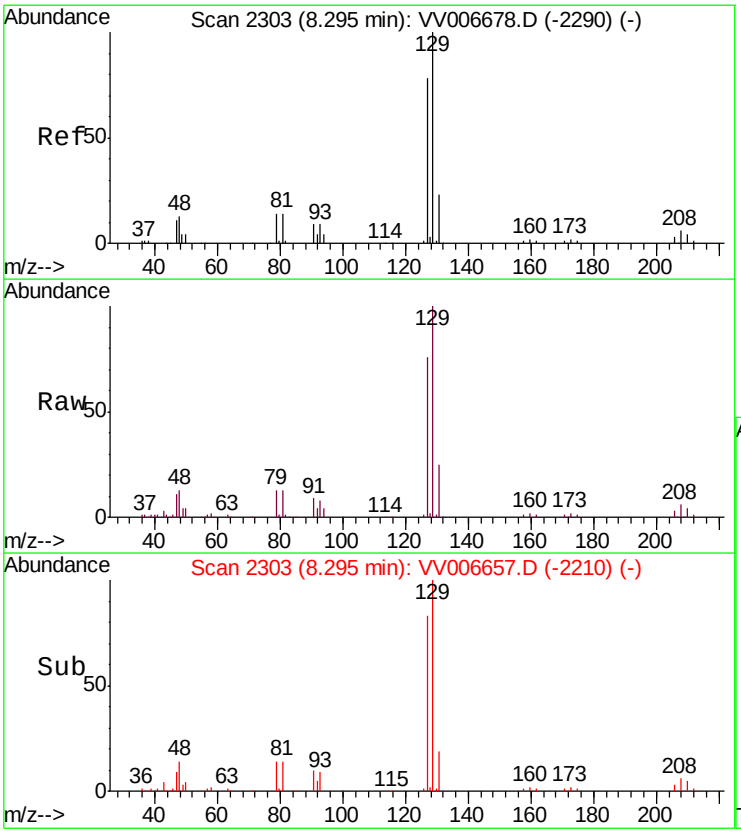

#48
2-Hexanone
Concen: 53.302 ug/L
RT: 8.19 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD00571

Tgt Ion: 43 Resp: 410131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.1 | 48.2 | 72.2 |
| 57 | 20.4 | 16.2 | 24.4 |
| 100 | 13.9 | 11.0 | 16.4 |

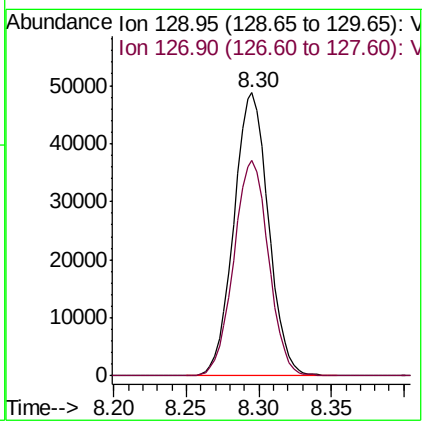


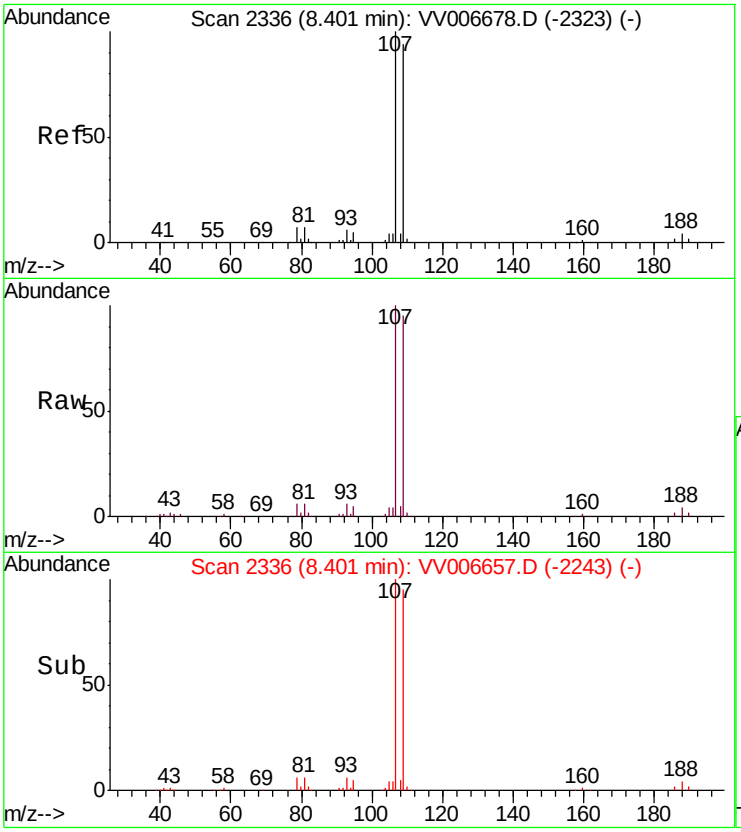




#49
Dibromochloromethane
Concen: 5.574 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:129 Resp: 80909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 53.6 | 99.6 |



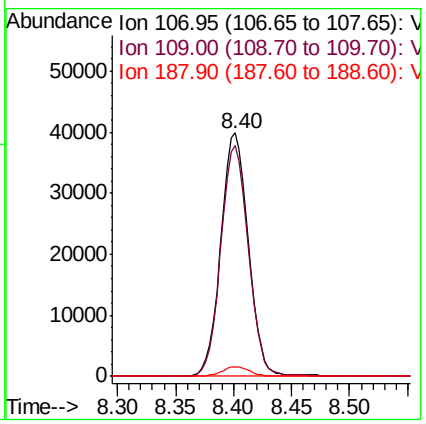


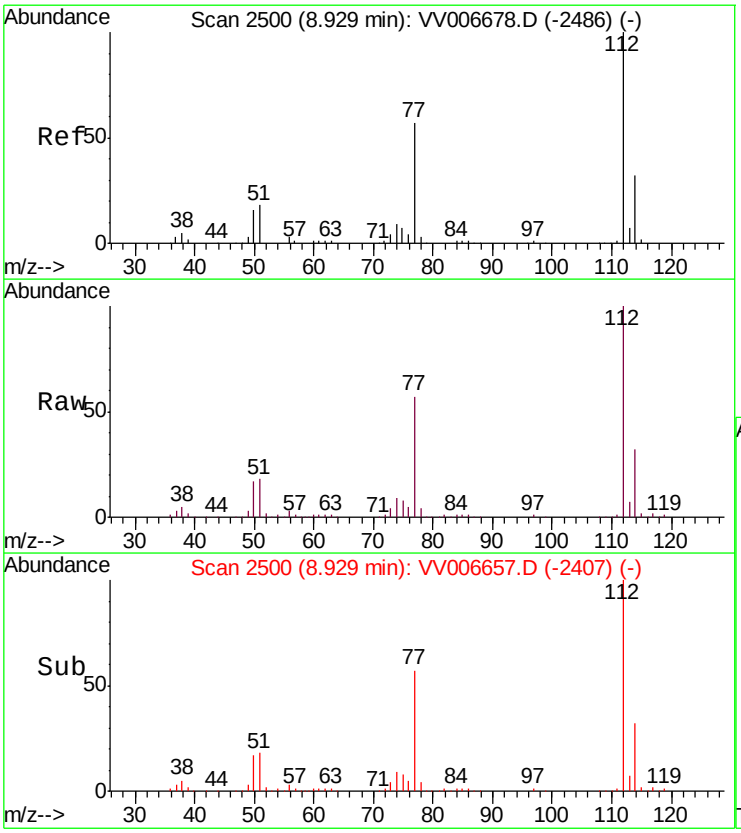

#50
1,2-Dibromoethane
Concen: 5.311 ug/L
RT: 8.40 min Scan# 2336
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD00571

Tgt Ion:107 Resp: 65388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 66.0 | 122.6 |
| 188 | 3.8 | 3.1 | 4.7 |

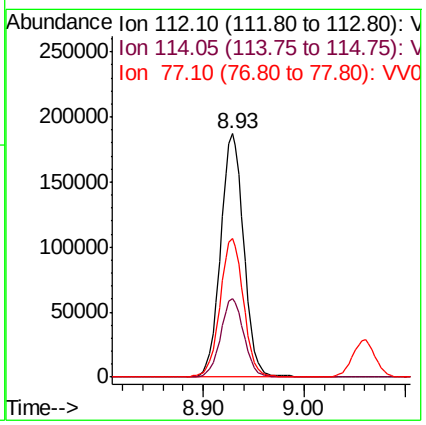


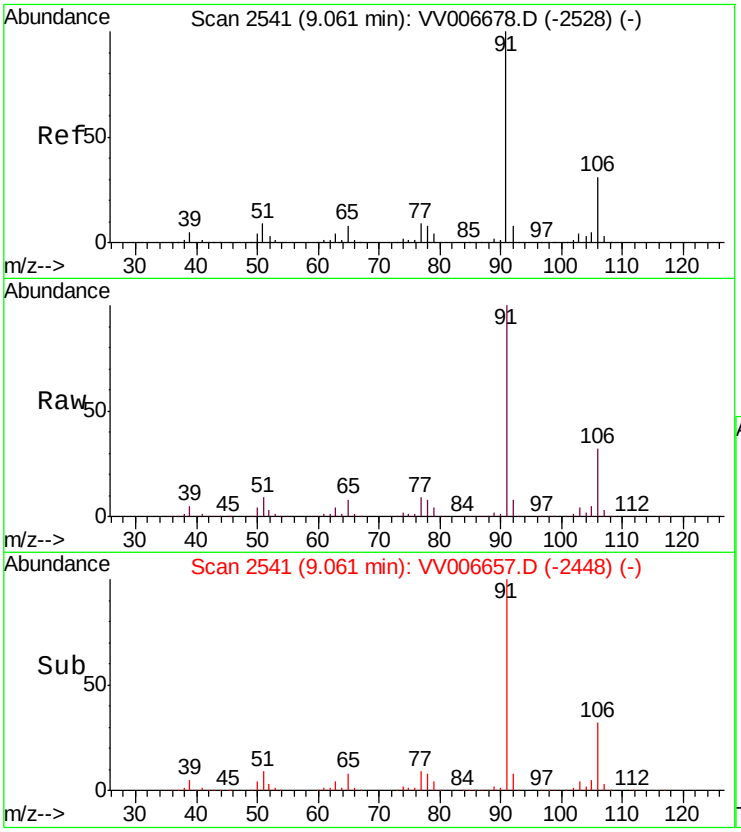




#51
Chlorobenzene
Concen: 5.608 ug/L
RT: 8.93 min Scan# 2500
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:112 Resp: 300641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 21.8 | 40.4 |
| 77 | 57.2 | 46.6 | 69.8 |



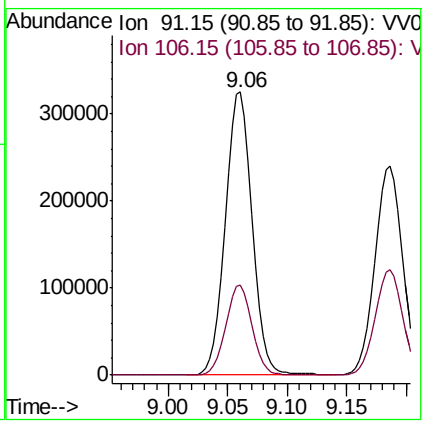


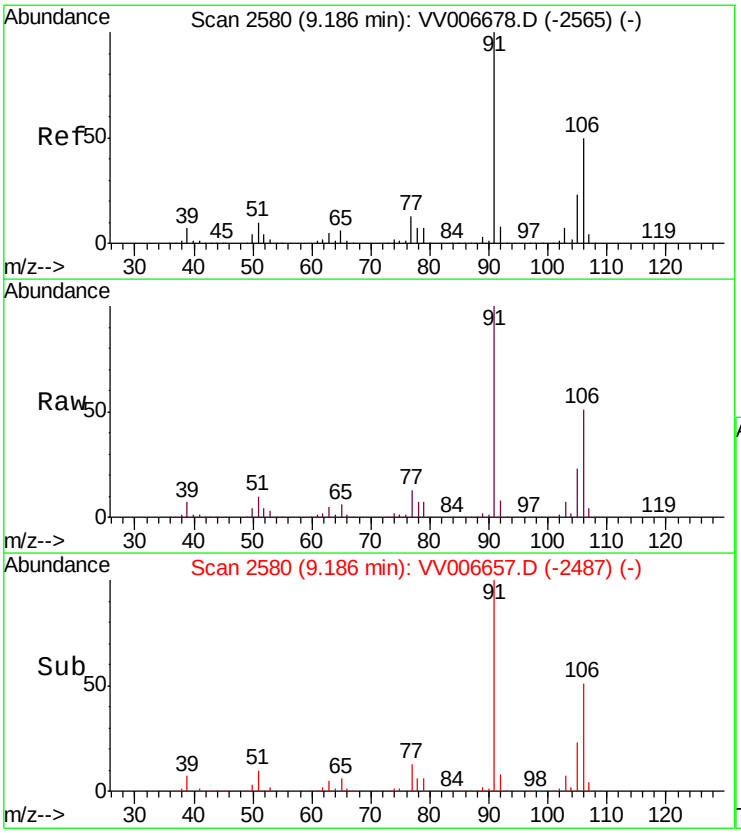

#52
Ethylbenzene
Concen: 5.739 ug/L
RT: 9.06 min Scan# 2541
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 91 Resp: 508247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 22.1 | 41.1 |

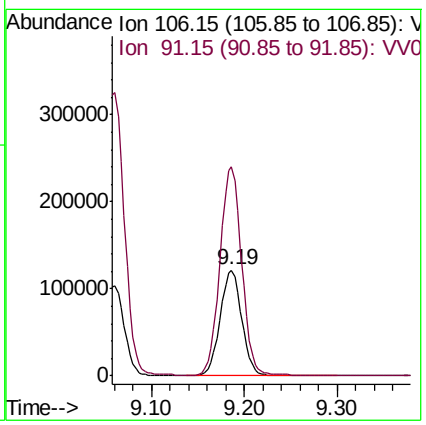


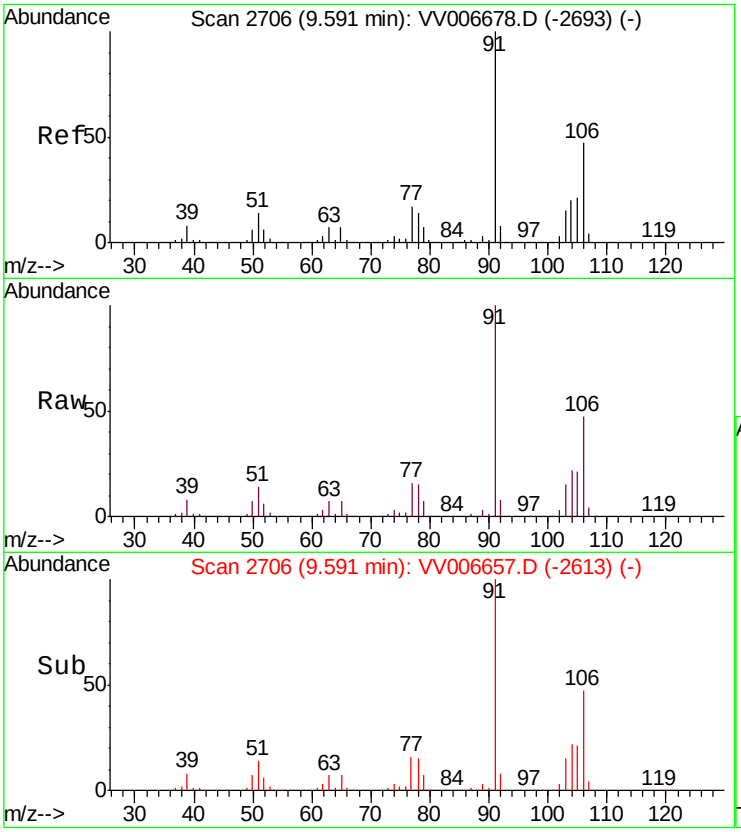




#53
m,p-xylene
Concen: 5.855 ug/L
RT: 9.19 min Scan# 2580
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:106 Resp: 197173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.7 | 140.3 | 260.5 |



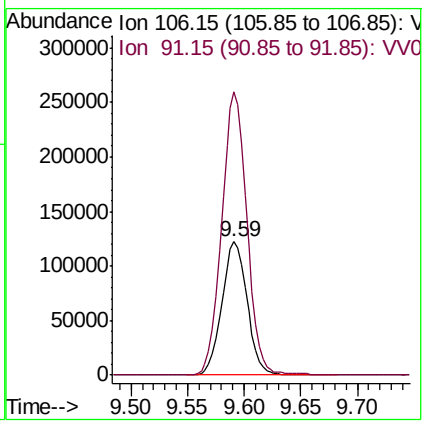


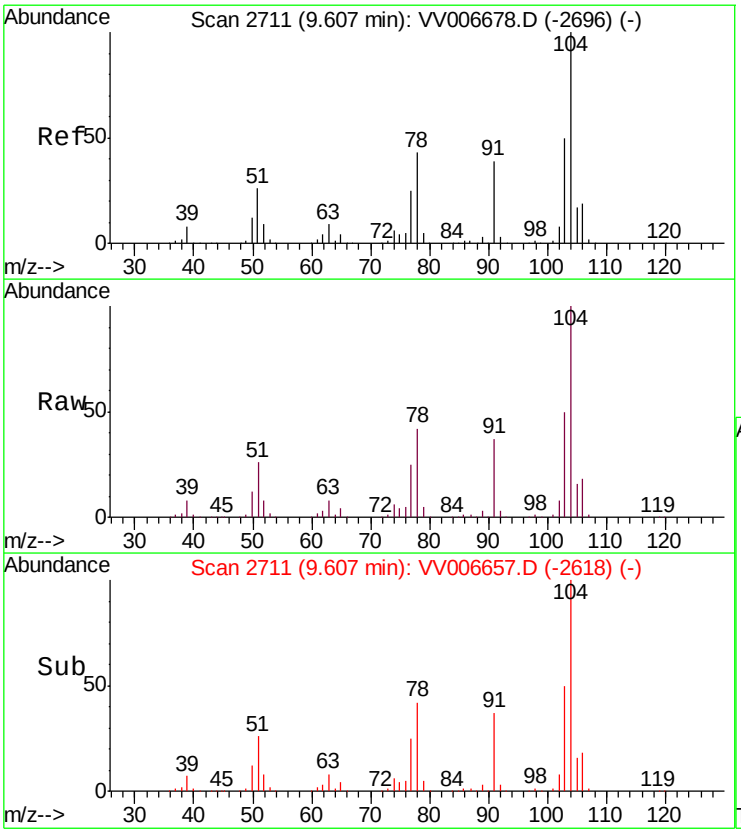

#54
o-xylene
Concen: 5.802 ug/L
RT: 9.59 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:106 Resp: 190608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.5 | 146.0 | 271.2 |

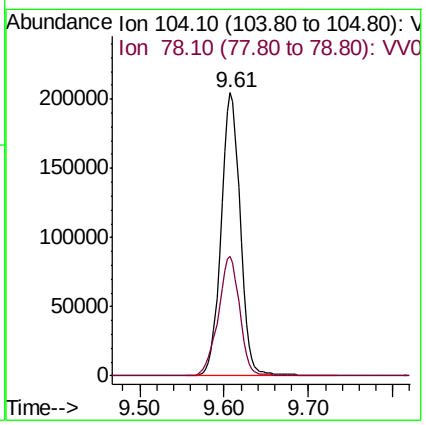


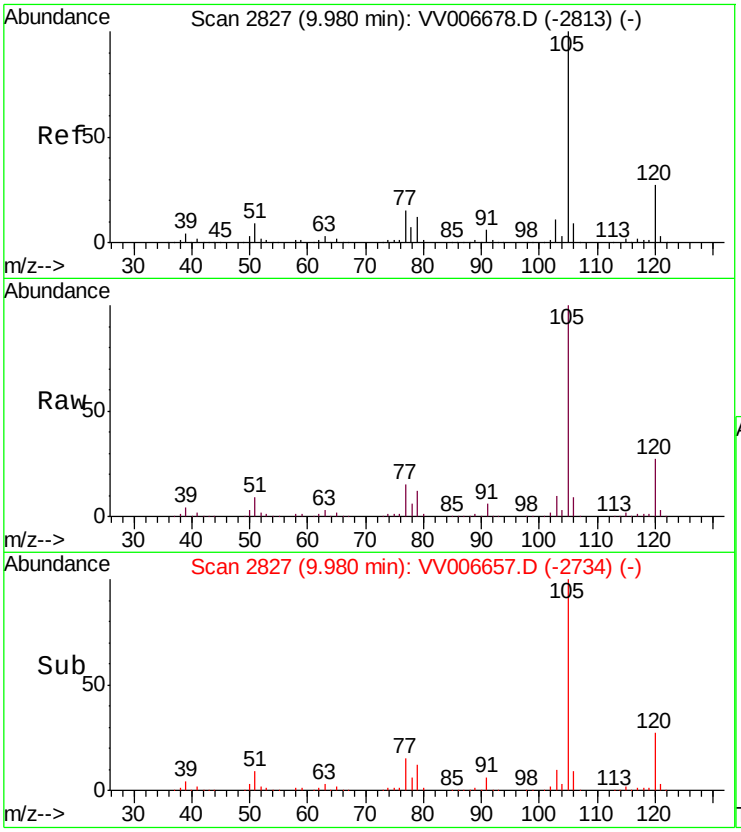




#55
Styrene
Concen: 5.885 ug/L
RT: 9.61 min Scan# 2711
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:104 Resp: 323699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 42.4 | 30.2 | 56.0 |



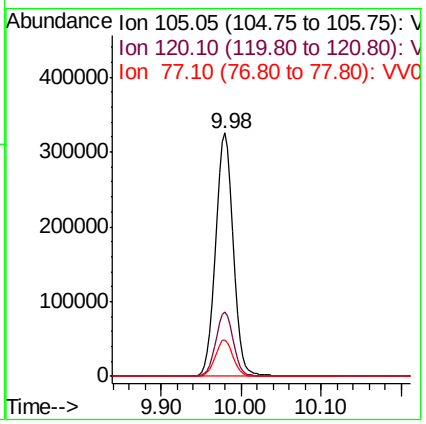


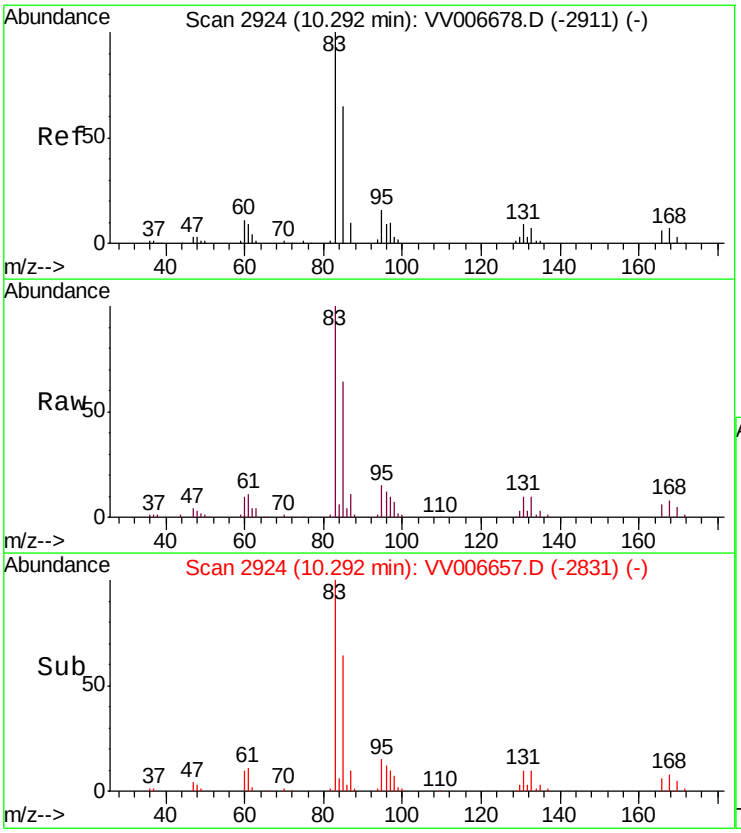

#56
Isopropylbenzene
Concen: 5.820 ug/L
RT: 9.98 min Scan# 2827
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:105 Resp: 501656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 21.2 | 31.8 |
| 77 | 15.2 | 11.9 | 17.9 |

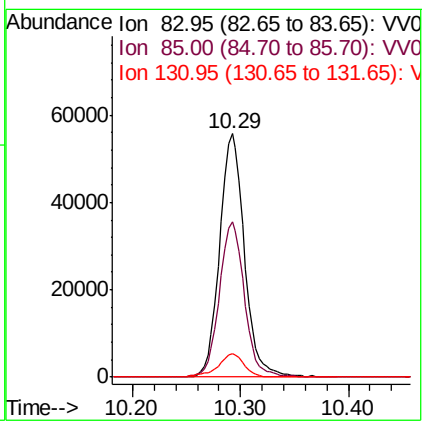


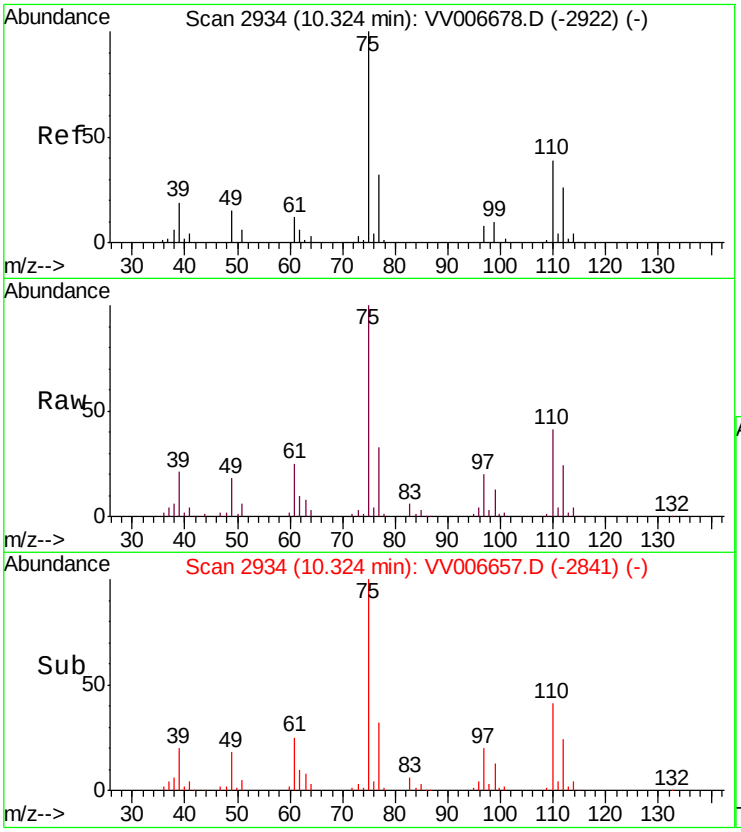




#58
1,1,2,2-Tetrachloroethane
Concen: 5.412 ug/L
RT: 10.29 min Scan# 2924
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 83 Resp: 88925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 44.4 | 82.5 |
| 131 | 9.6 | 7.4 | 11.2 |



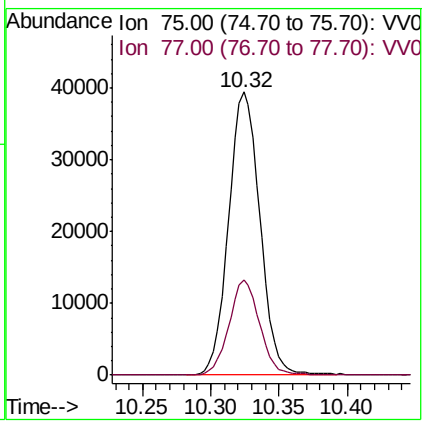


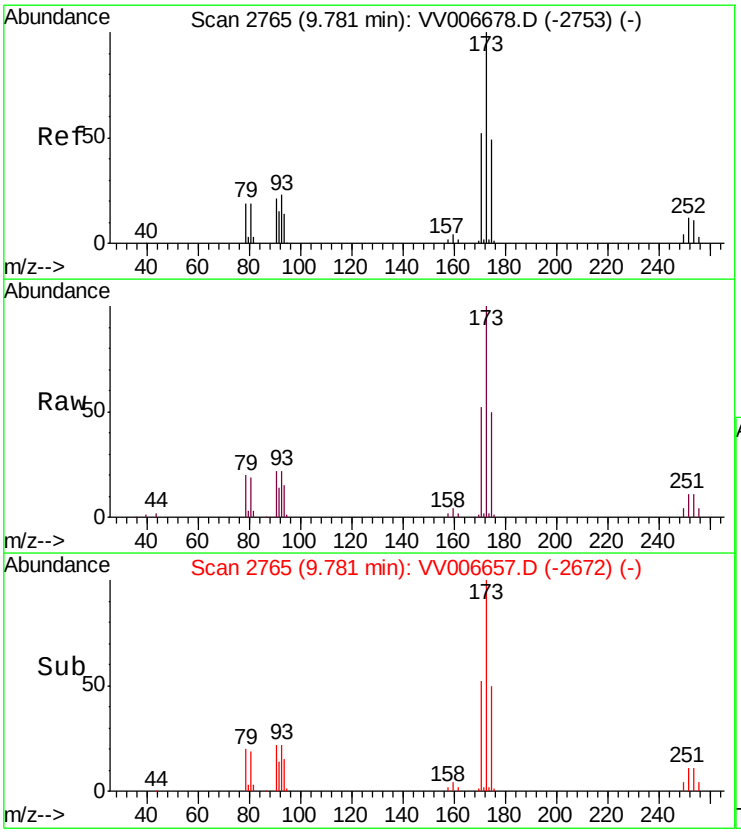

#59
1,2,3-Trichloropropane
Concen: 5.251 ug/L
RT: 10.32 min Scan# 2934
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion: 75 Resp: 63047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 26.2 | 39.4 |

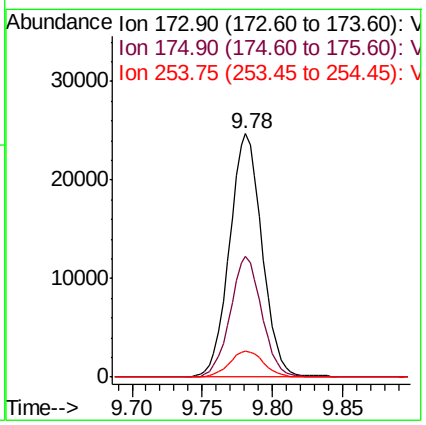


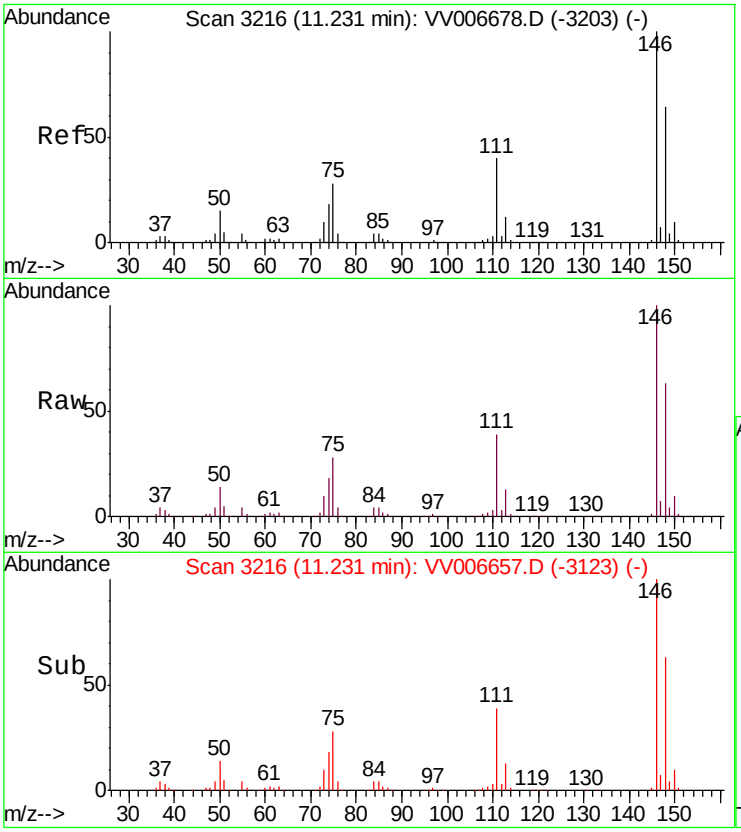




#61
Bromoform
Concen: 5.237 ug/L
RT: 9.78 min Scan# 2765
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:173 Resp: 39923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 38.9 | 58.3 |
| 254 | 11.0 | 9.1 | 13.7 |



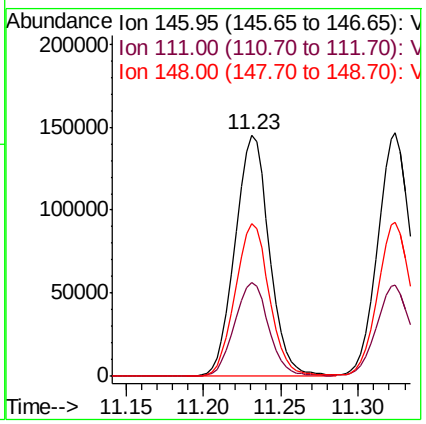


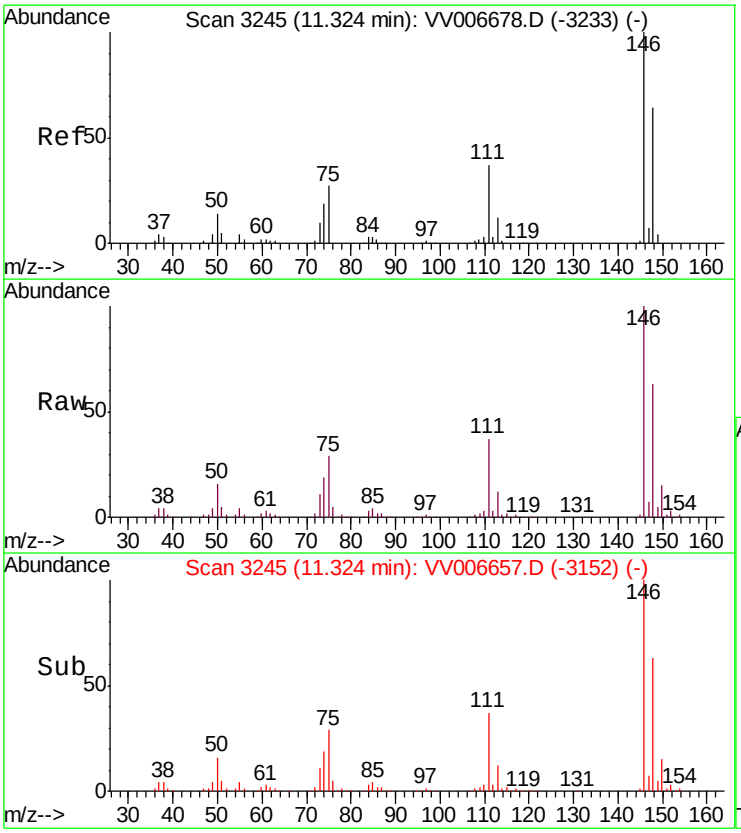

#62
1,3-Dichlorobenzene
Concen: 5.574 ug/L
RT: 11.23 min Scan# 3216
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:146 Resp: 223926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 27.2 | 50.6 |
| 148 | 63.4 | 44.4 | 82.4 |

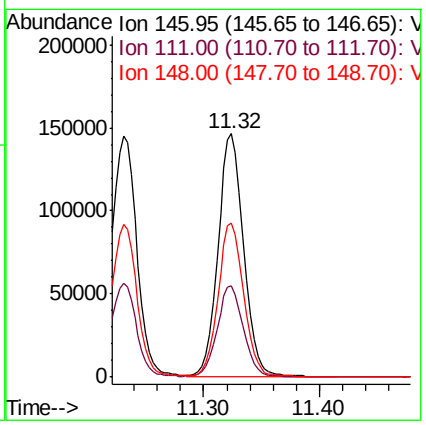


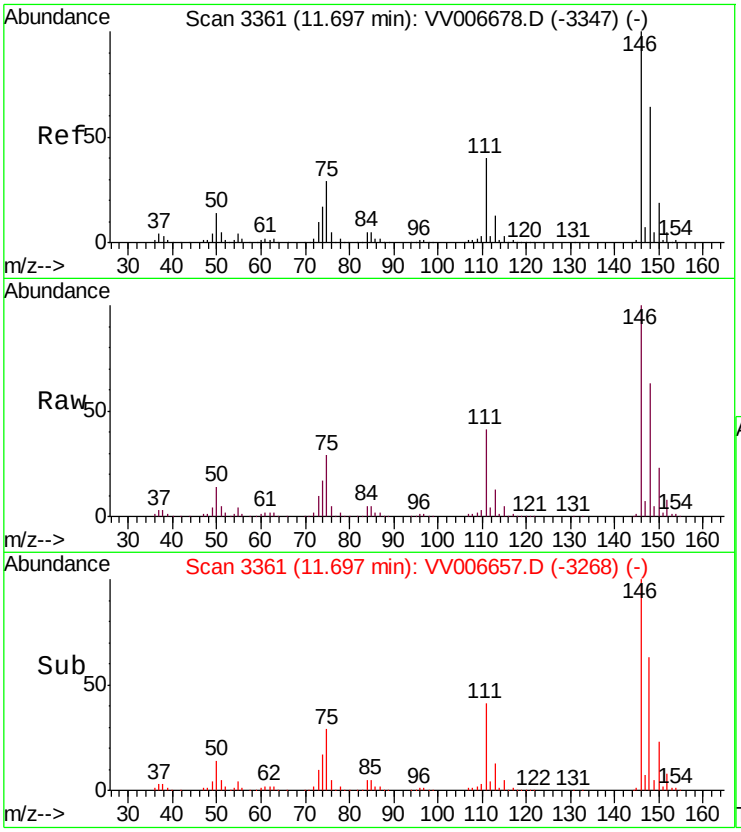




#63
1,4-Dichlorobenzene
Concen: 5.535 ug/L
RT: 11.32 min Scan# 3245
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:146 Resp: 225922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 26.0 | 48.4 |
| 148 | 63.4 | 44.6 | 82.8 |



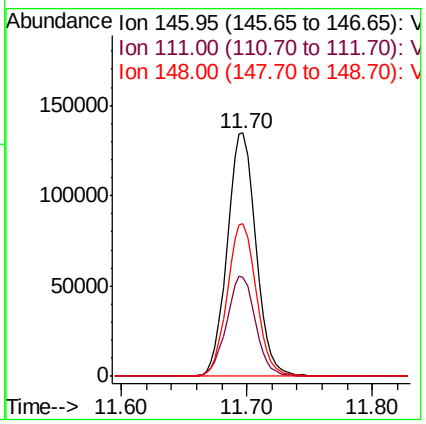


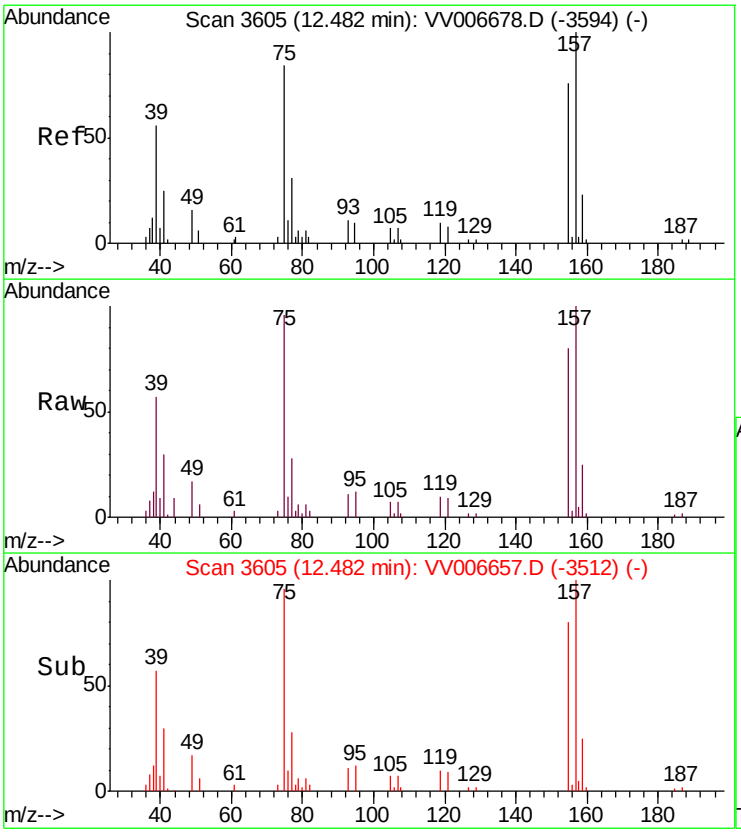

#65
1,2-Dichlorobenzene
Concen: 5.559 ug/L
RT: 11.70 min Scan# 3361
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:146 Resp: 214104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 32.6 | 49.0 |
| 148 | 62.5 | 50.8 | 76.2 |

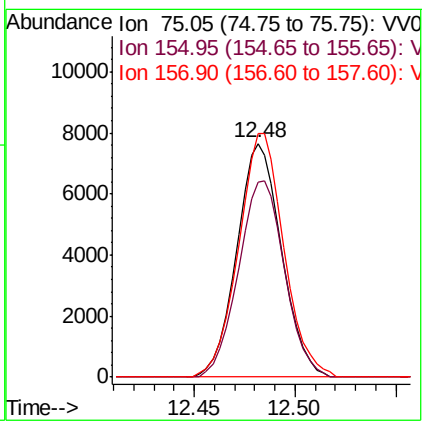


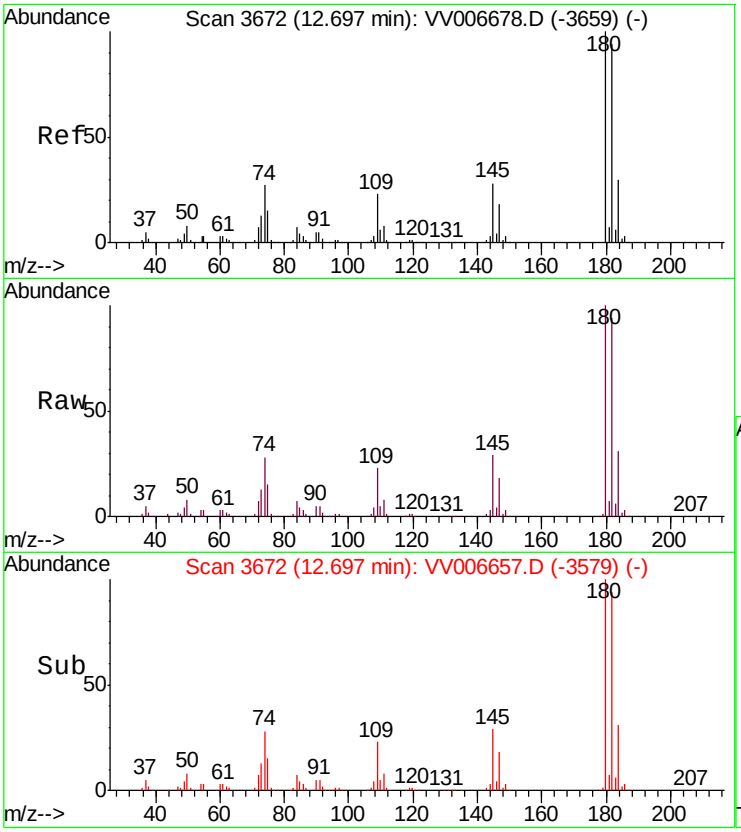




#66
1,2-Dibromo-3-chloropropane
Concen: 5.191 ug/L
RT: 12.48 min Scan# 3605
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion: 75 Resp: 11864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.5 | 69.8 | 104.6 |
| 157 | 104.1 | 95.0 | 142.6 |



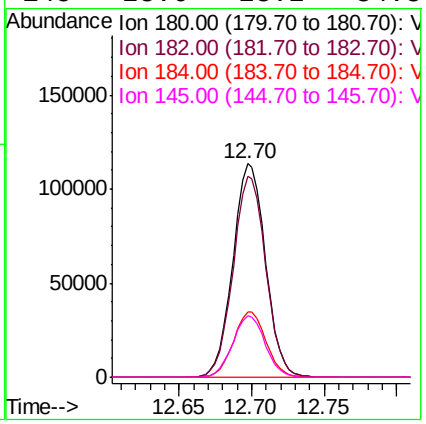


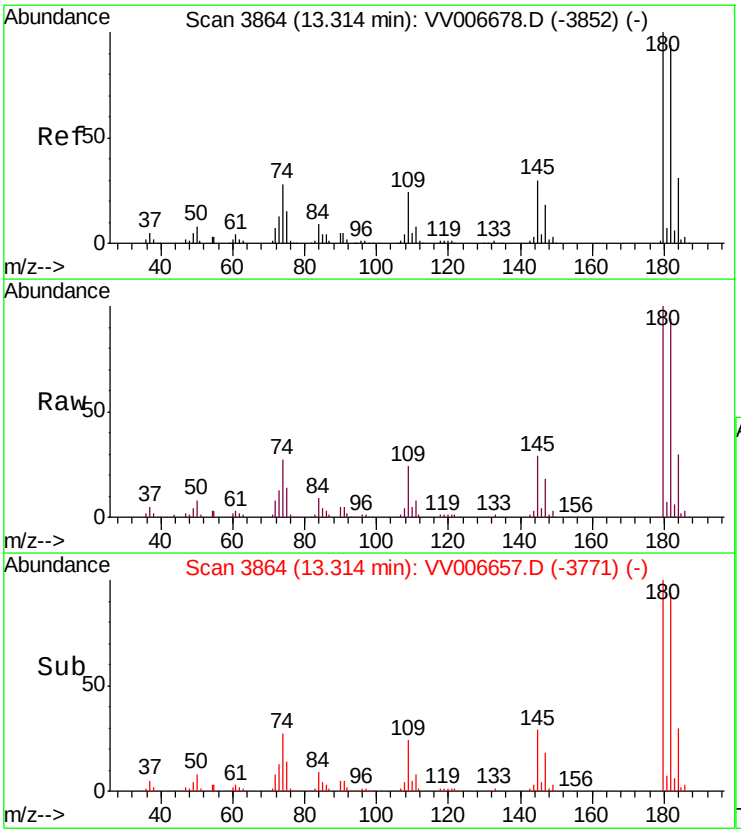

#67
1,3,5-Trichlorobenzene
Concen: 5.689 ug/L
RT: 12.70 min Scan# 3672
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:180 Resp: 176652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 77.4 | 116.0 |
| 184 | 30.5 | 24.2 | 36.2 |
| 145 | 28.6 | 23.2 | 34.8 |

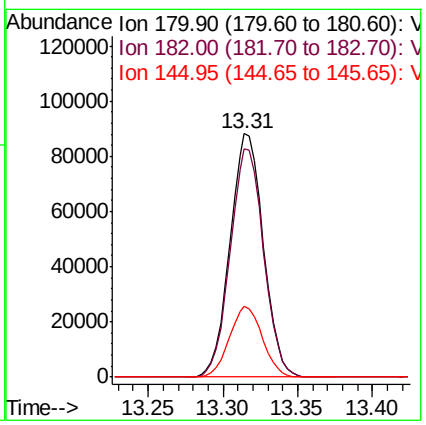


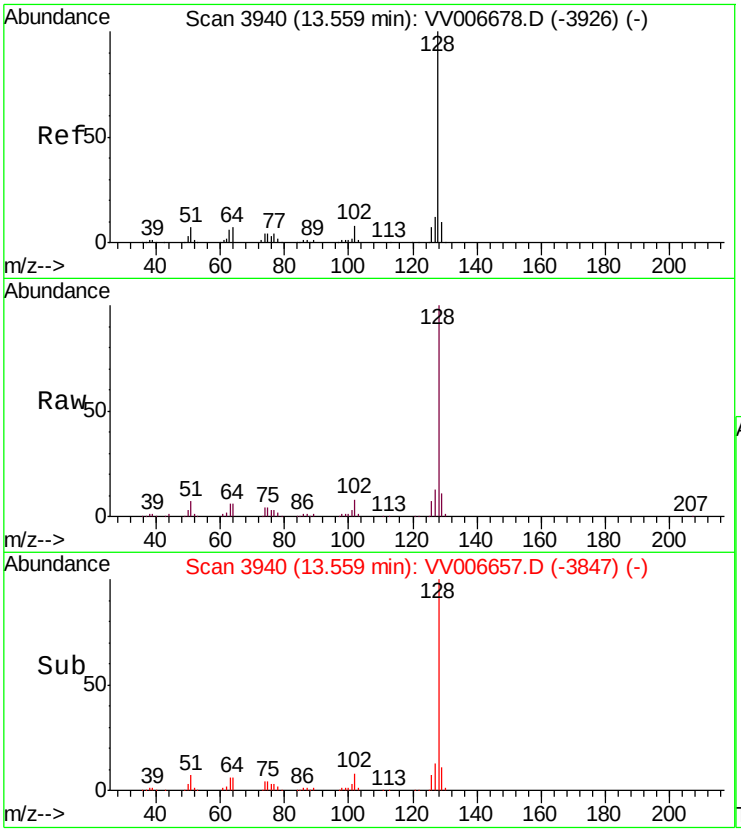




#68
1,2,4-trichlorobenzene
Concen: 5.554 ug/L
RT: 13.31 min Scan# 3864
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:180 Resp: 136817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 75.8 | 113.8 |
| 145 | 28.7 | 23.4 | 35.0 |



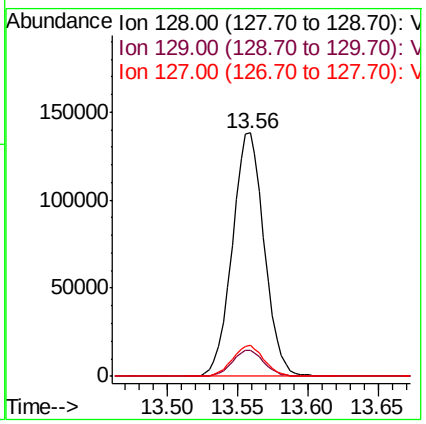


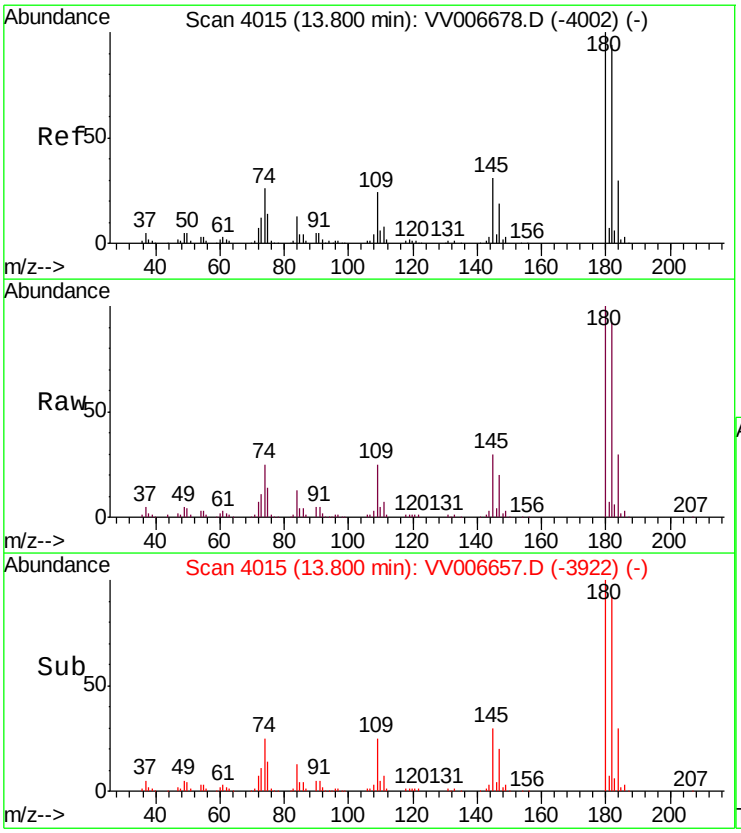

#69
Naphthalene
Concen: 5.131 ug/L
RT: 13.56 min Scan# 3940
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD00571

Tgt Ion:128 Resp: 218781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.7 | 8.5 | 12.7 |
| 127 | 12.5 | 10.2 | 15.4 |




#70
1,2,3-Trichlorobenzene
Concen: 5.505 ug/L
RT: 13.80 min Scan# 4015
Delta R.T. -0.00 min
Lab File: VV006657.D
Acq: 20 Jul 2018 10:01

Tgt Ion:180 Resp: 127741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 75.9 | 113.9 |
| 145 | 30.2 | 25.0 | 37.6 |