Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL111020\
Data File : VL035904.D
Acq On : 11 Nov 2020 8:31
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :**

Quant Time: Nov 11 14:45:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.66 | 49 | 1112721 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.17 | 114 | 3972356 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.08 | 117 | 3632004 | 10.00 | ppbv | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.41 | 95 | 2707697 | 10.49 | ppbv | | -0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.90% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.04 | 85 | 6484 | 0.031 | ppbv | | 98 |
| 3) Chlorodifluoromethane | 2.98 | 51 | 6880 | 0.052 | ppbv | | 94 |
| 4) Chloromethane | 3.13 | 50 | 3539 | 0.055 | ppbv | | 90 |
| 7) Chloroethane | 3.56 | 64 | 1054 | 0.036 | ppbv | # | 86 |
| 8) Dichlorotetrafluoroethane | 3.18 | 85 | 10818 | 0.045 | ppbv | | 96 |
| 9) Propene | 3.01 | 41 | 3949 | 0.081 | ppbv | # | 55 |
| 11) Trichlorofluoromethane | 3.94 | 101 | 12499 | 0.048 | ppbv | # | 66 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 6535 | 0.033 | ppbv | # | 50 |
| 13) Ethanol | 3.61 | 45 | 2483 | 0.235 | ppbv | # | 35 |
| 15) Acetone | 3.86 | 43 | 11743 | 0.099 | ppbv | # | 40 |
| 16) 1,3-Butadiene | 3.32 | 39 | 1558 | 0.030 | ppbv | | 80 |
| 18) 1,1-Dichloroethene | 4.28 | 96 | 3508 | 0.039 | ppbv | | 93 |
| 20) Methylene Chloride | 4.34 | 84 | 14696 | 0.175 | ppbv | | 95 |
| 22) trans-1,2-Dichloroethene | 4.88 | 96 | 4466 | 0.049 | ppbv | # | 92 |
| 24) 1,1-Dichloroethane | 5.00 | 63 | 8093 | 0.051 | ppbv | # | 91 |
| 29) Chloroform | 5.74 | 83 | 12272 | 0.048 | ppbv | # | 80 |
| 34) 2-Butanone | 5.26 | 43 | 10616 | 0.082 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 7.01 | 117 | 8492 | 0.040 | ppbv | # | 94 |
| 37) 1,2-Dichloroethane | 6.30 | 62 | 4080 | 0.030 | ppbv | # | 79 |
| 39) 1,2-Dichloropropane | 7.17 | 63 | 819082 | 8.238 | ppbv | # | 30 |
| 47) 1,1,2-Trichloroethane | 9.46 | 97 | 4545 | 0.034 | ppbv | # | 86 |
| 57) Chlorobenzene | 12.14 | 112 | 8913 | 0.031 | ppbv | # | 39 |
| 75) 1,3-Dichlorobenzene | 17.00 | 146 | 10150 | 0.037 | ppbv | # | 52 |

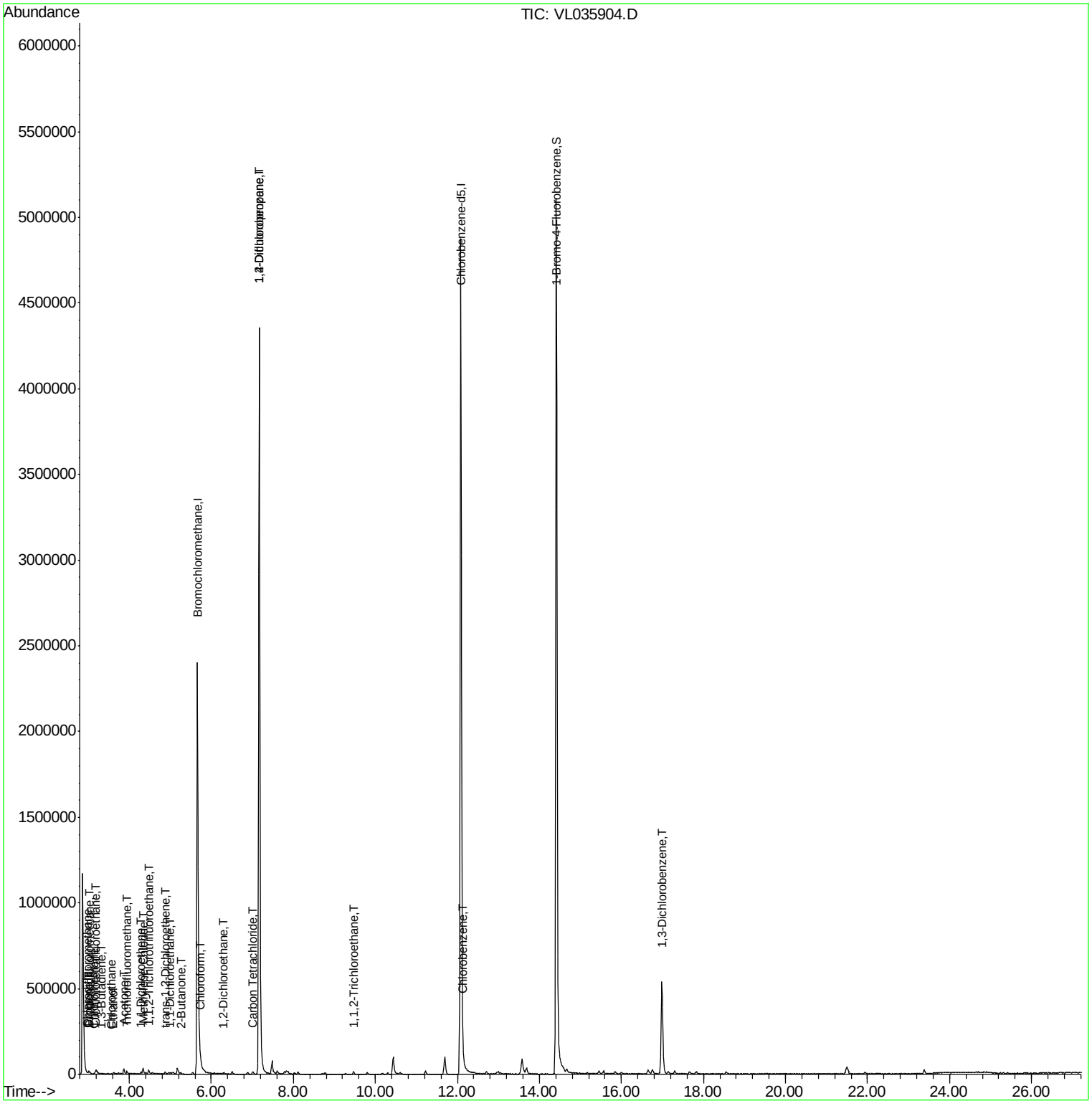
(#) = qualifier out of range (m) = manual integration (+) = signals summed

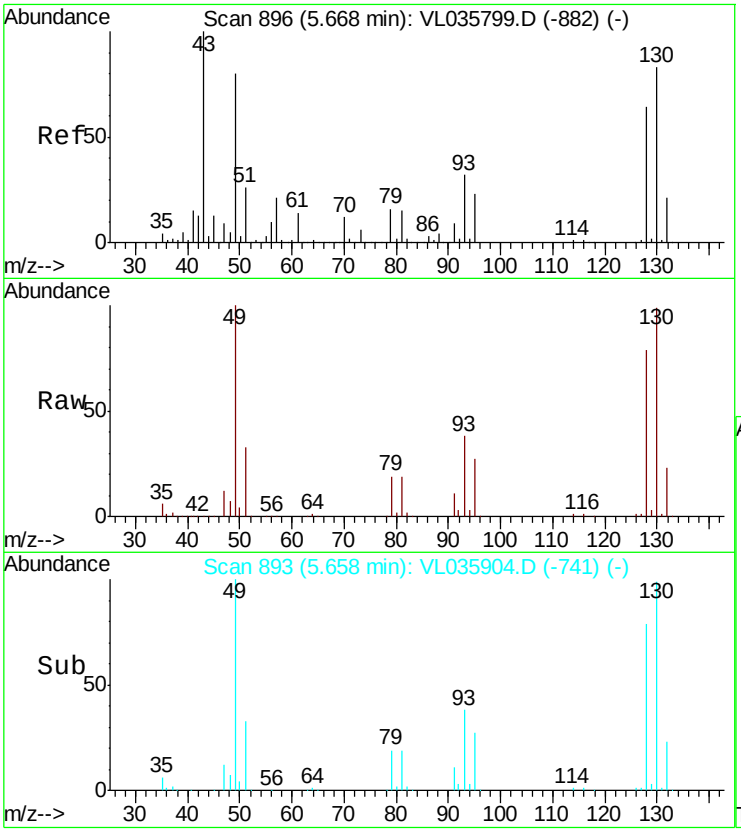
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL111020\
Data File : VL035904.D
Acq On : 11 Nov 2020 8:31
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**

Quant Time: Nov 11 14:45:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration



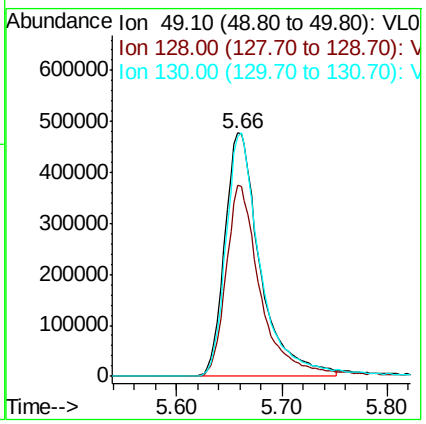


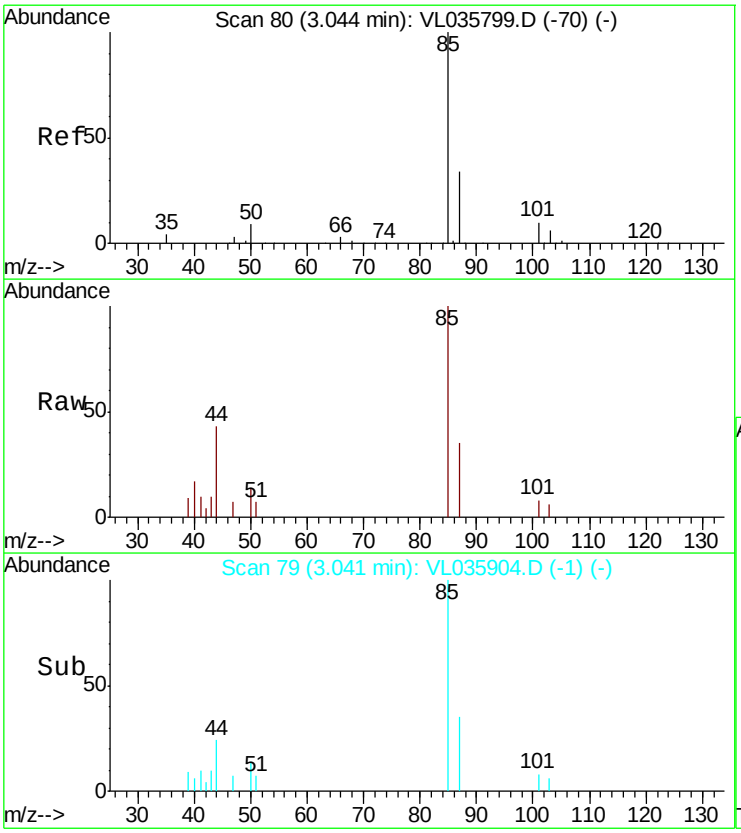

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion: 49 Resp: 1112721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 78.5 | 41.5 | 124.6 |
| 130 | 99.6 | 53.7 | 161.1 |

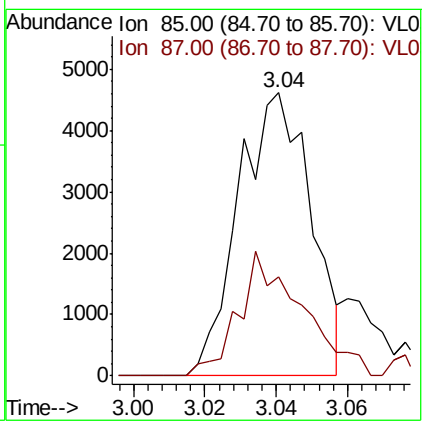


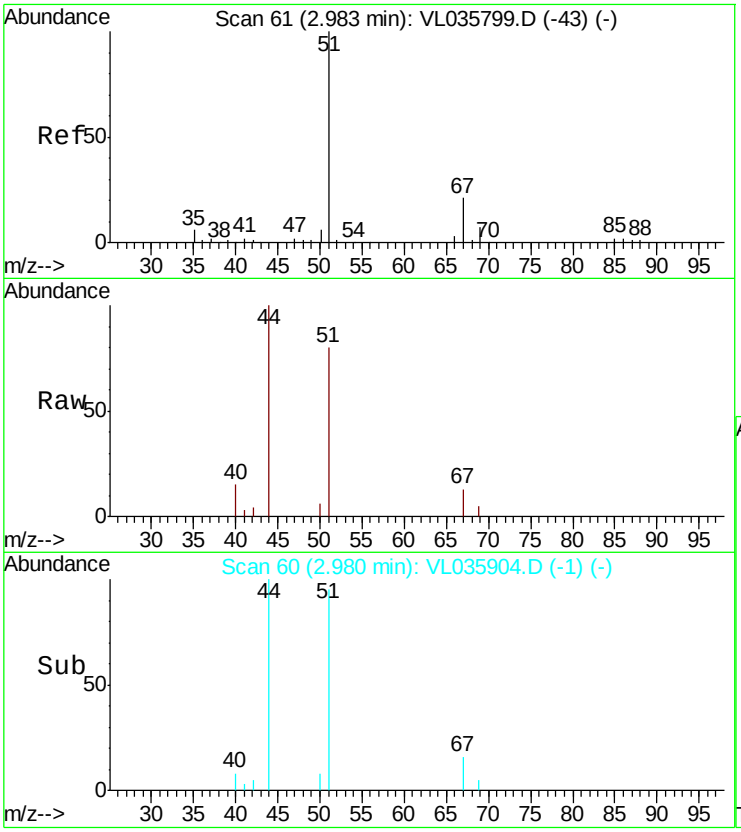




#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 85 Resp: 6484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 35.0 | 27.1 | 40.7 |



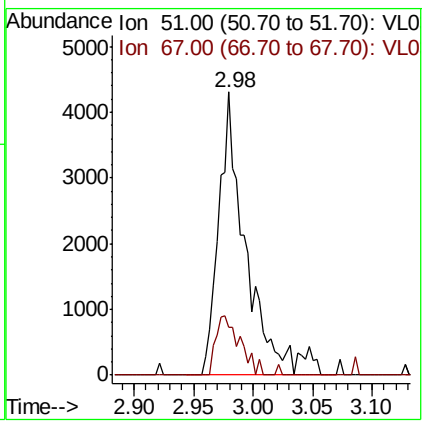


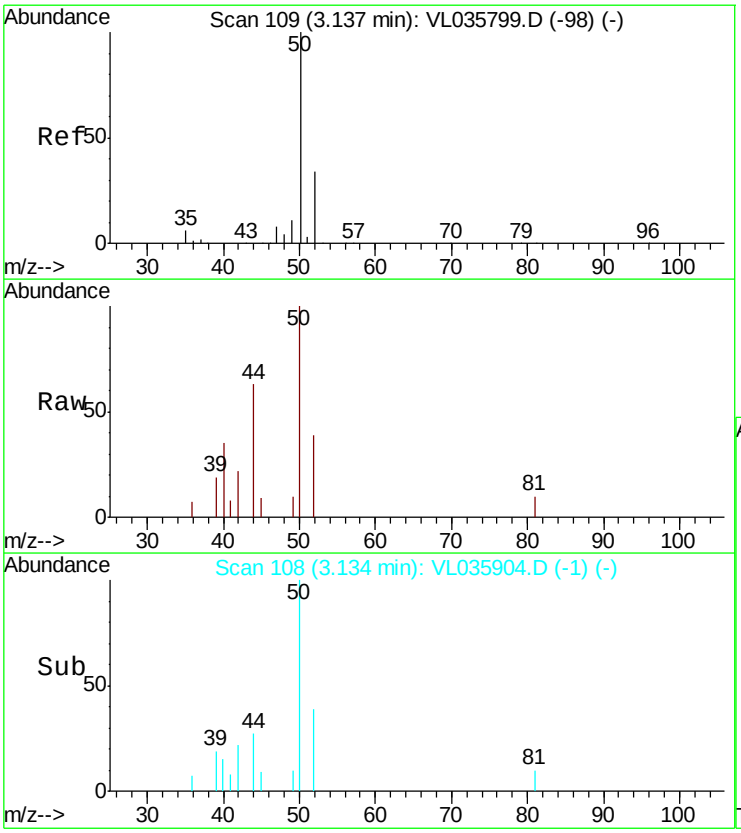

#3
Chlorodifluoromethane
Concen: 0.052 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion: 51 Resp: 6880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.3 | 17.0 | 25.4 |

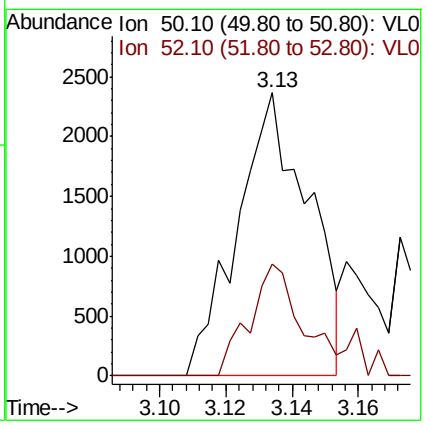


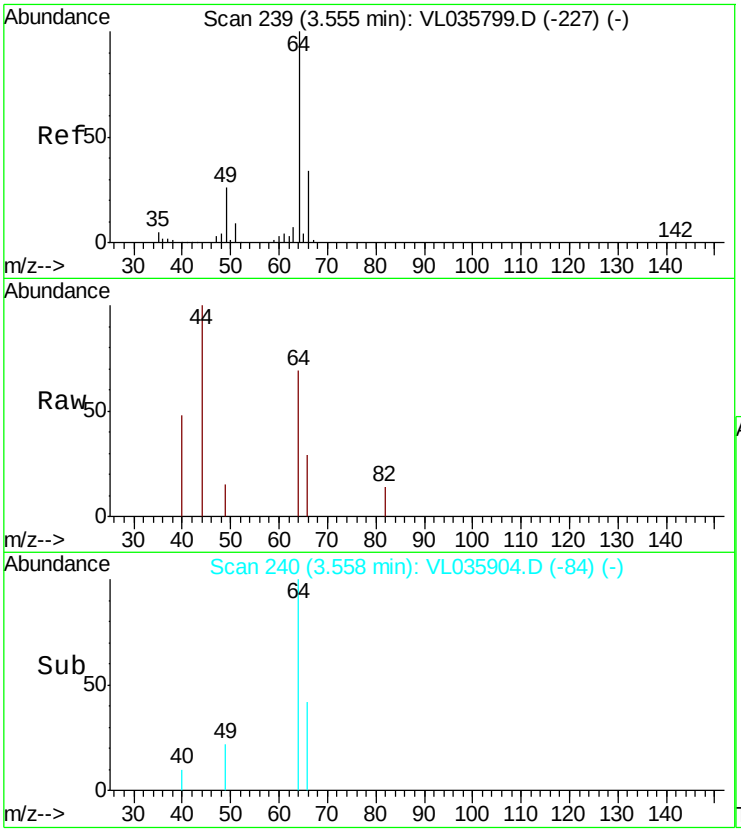




#4
Chloromethane
Concen: 0.055 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 50 Resp: 3539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 39.5 | 27.1 | 40.7 |



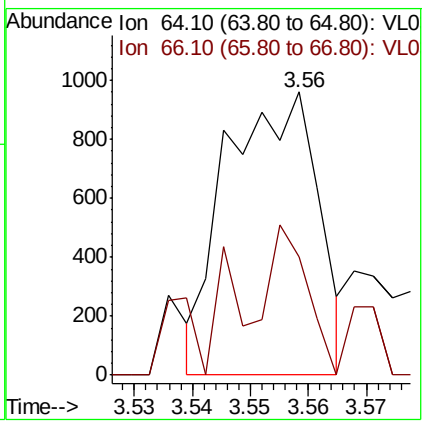


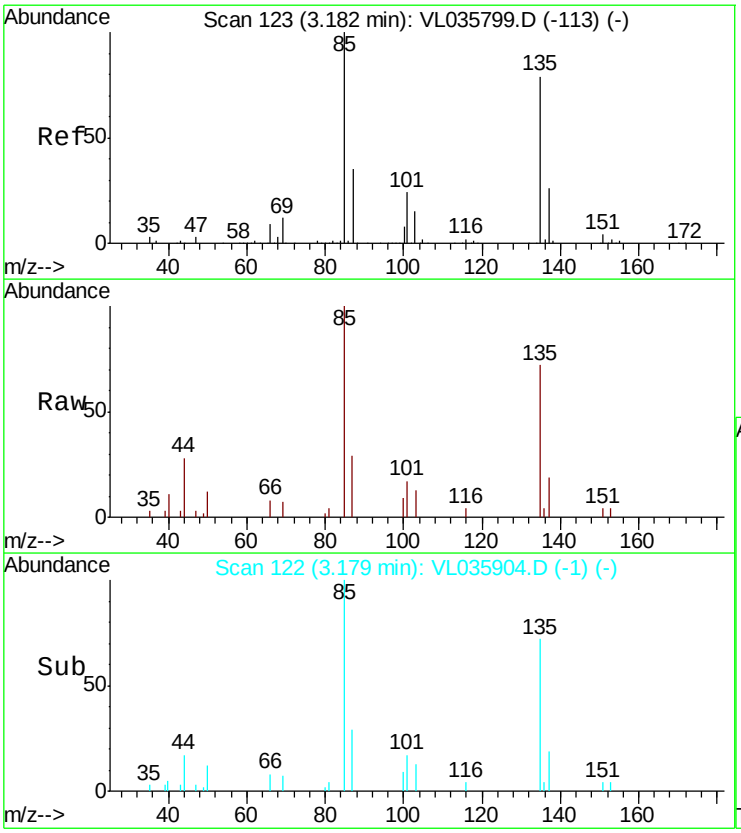

#7
Chloroethane
Concen: 0.036 ppbv
RT: 3.56 min Scan# 240
Delta R.T. 0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion: 64 Resp: 1054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 41.9 | 27.0 | 40.6# |

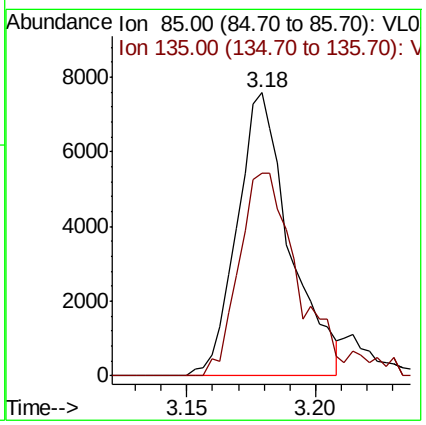


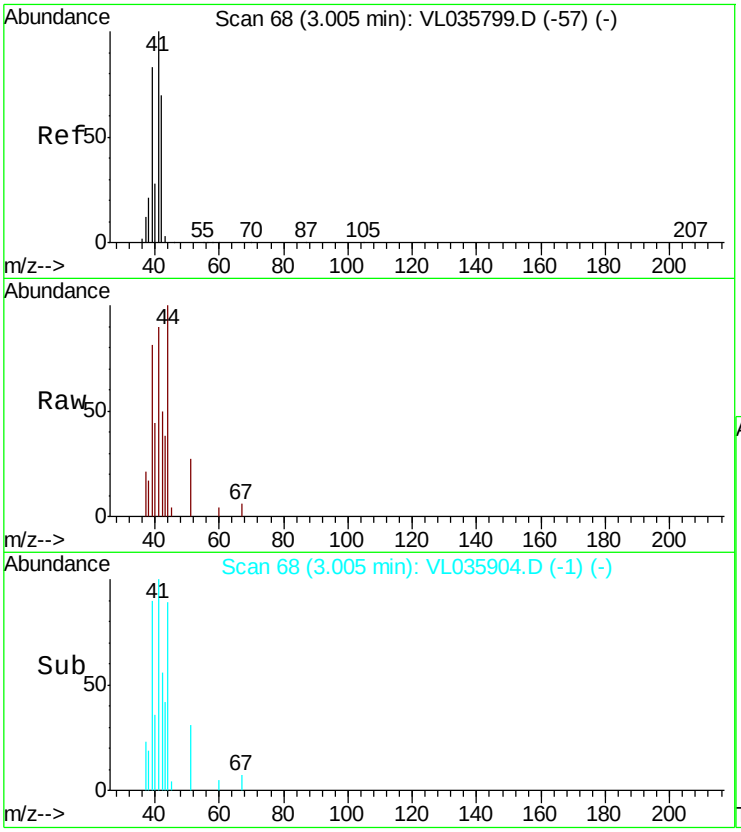




#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 3.18 min Scan# 122
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 85 Resp: 10818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 84.1 | 64.6 | 96.8 |



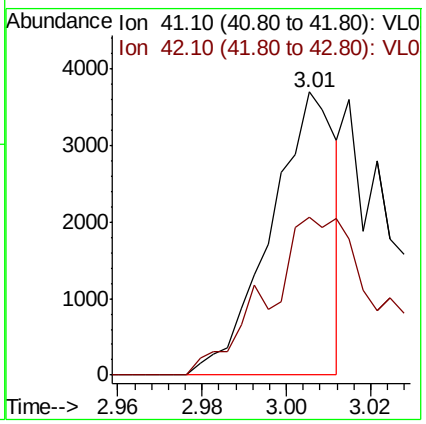


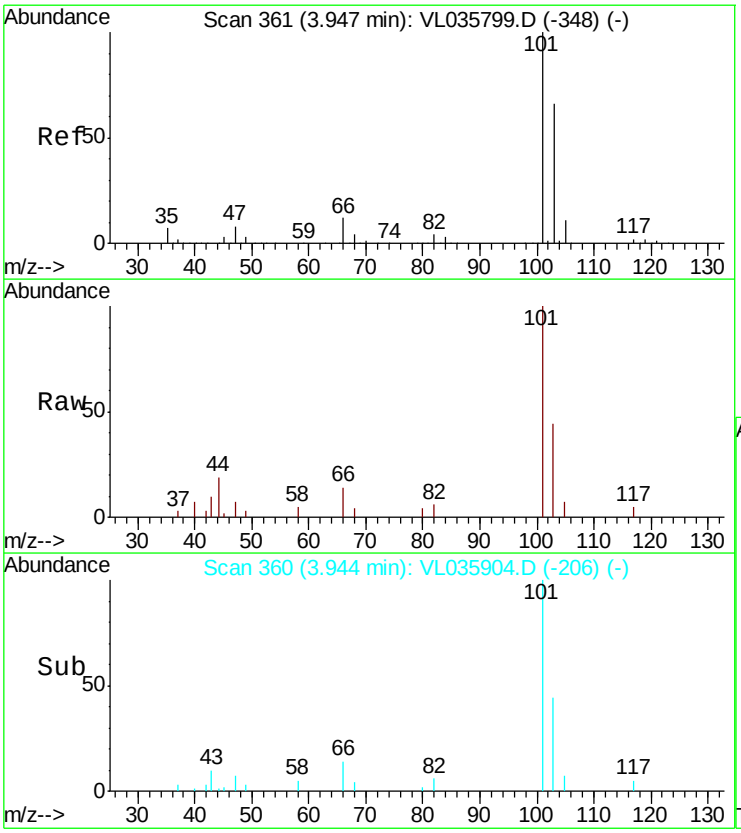

#9
Propene
Concen: 0.081 ppbv
RT: 3.01 min Scan# 68
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion: 41 Resp: 3949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 107.2 | 56.2 | 84.4# |

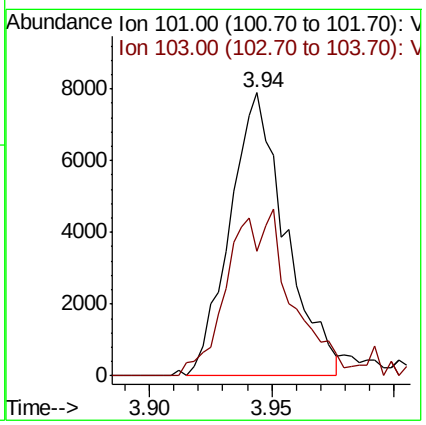


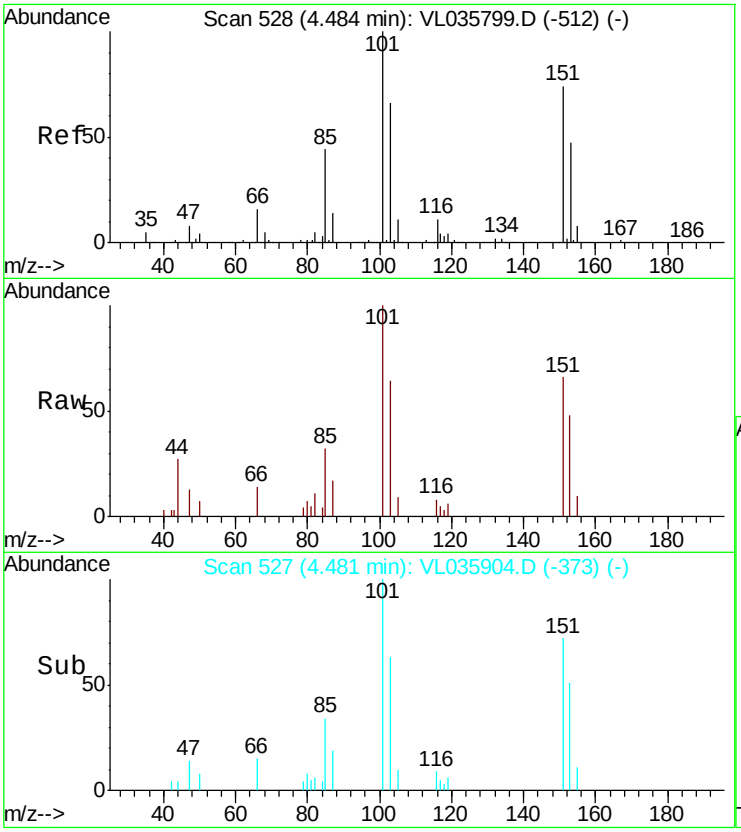




#11
Trichlorofluoromethane
Concen: 0.048 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion:101 Resp: 12499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 39.1 | 53.0 | 79.4# |



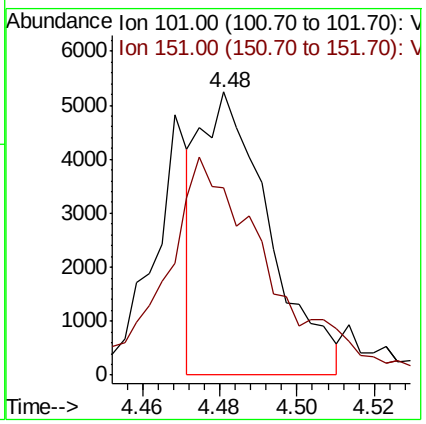


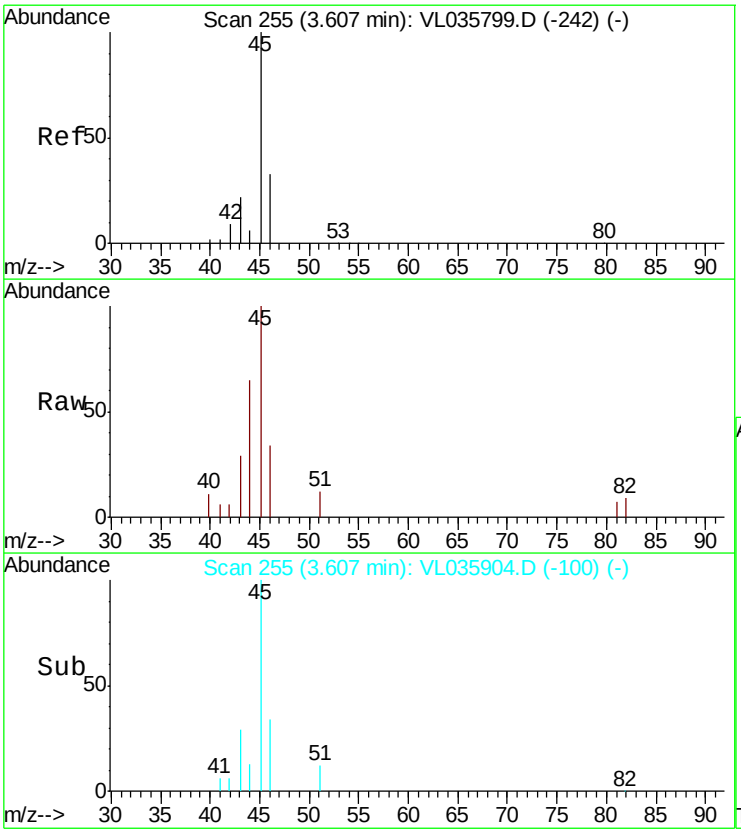

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.033 ppbv
RT: 4.48 min Scan# 527
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion:101 Resp: 6535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 115.7 | 58.9 | 88.3# |

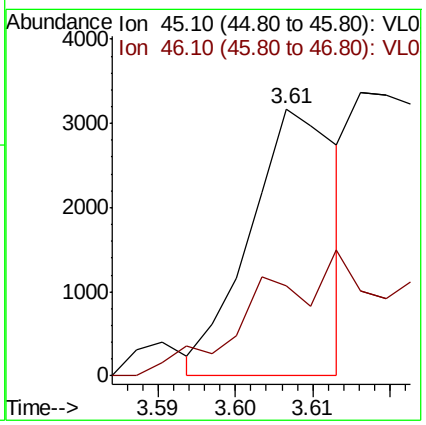


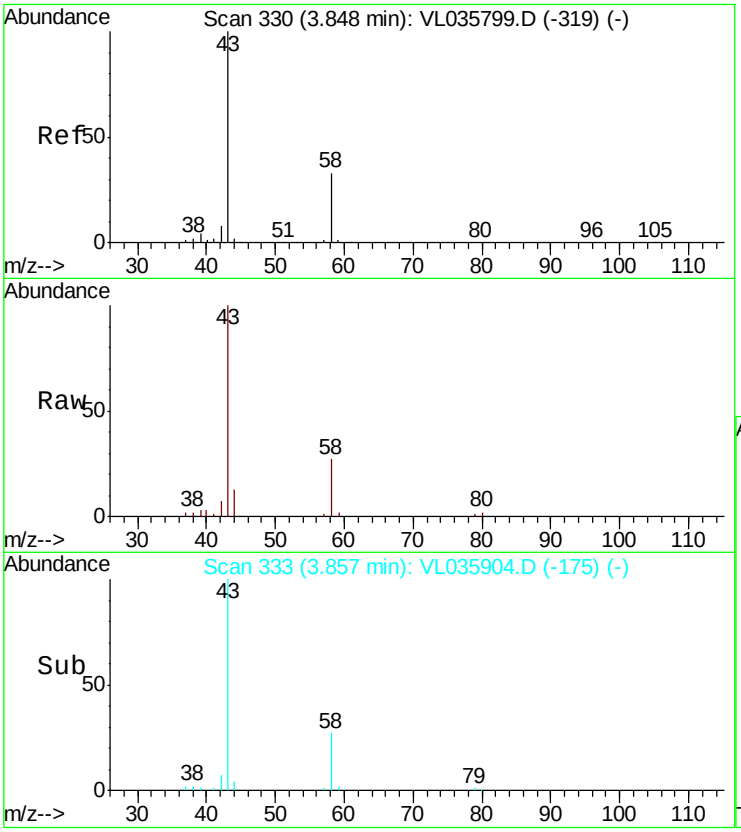




#13
Ethanol
Concen: 0.235 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 45 Resp: 2483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 16.1 | 64.5# |



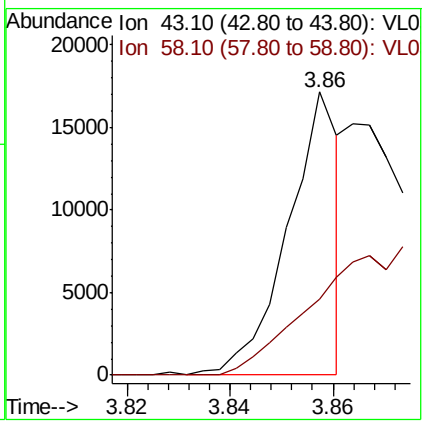


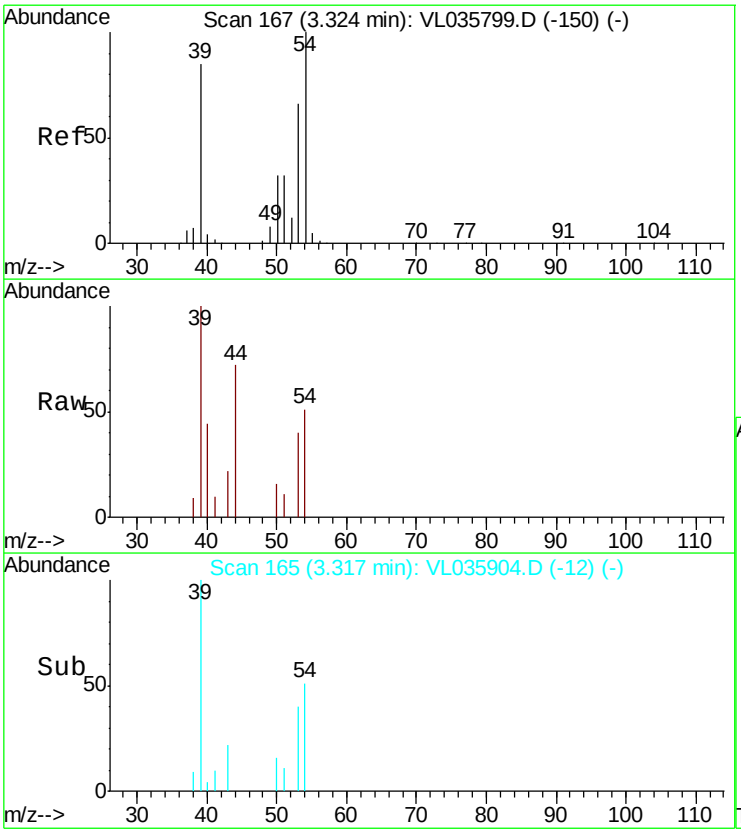

#15
Acetone
Concen: 0.099 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion: 43 Resp: 11743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 27.5 | 41.3# |

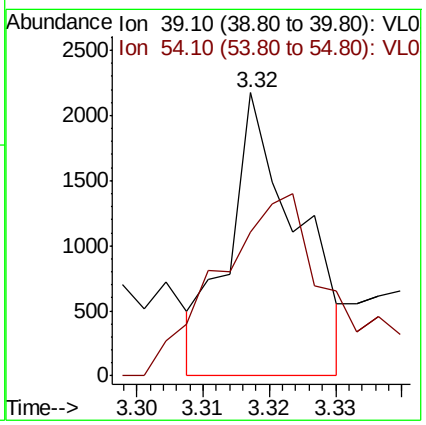


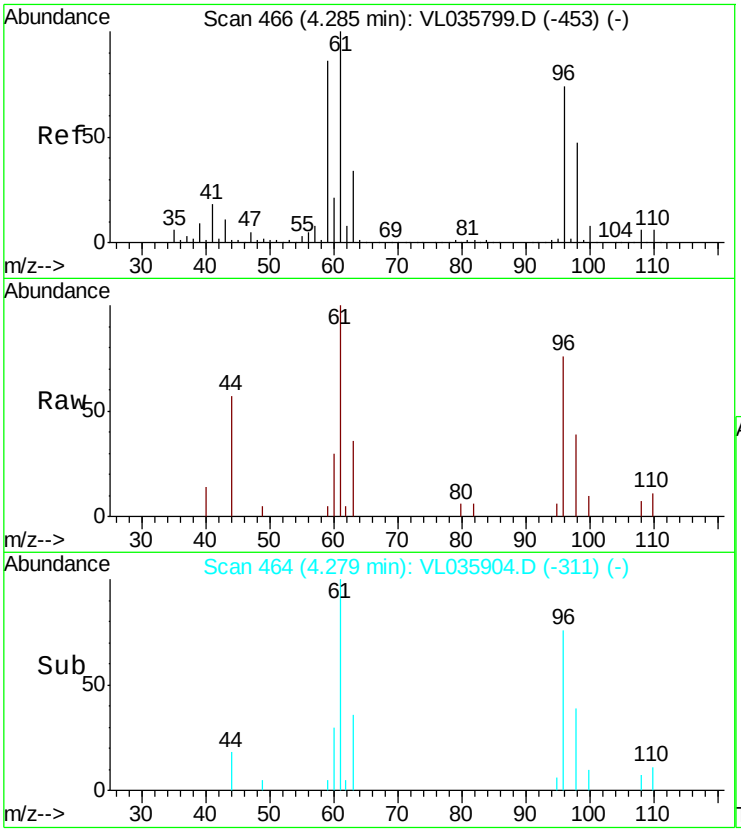




#16
1,3-Butadiene
Concen: 0.030 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 39 Resp: 1558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 129.5 | 87.1 | 130.7 |



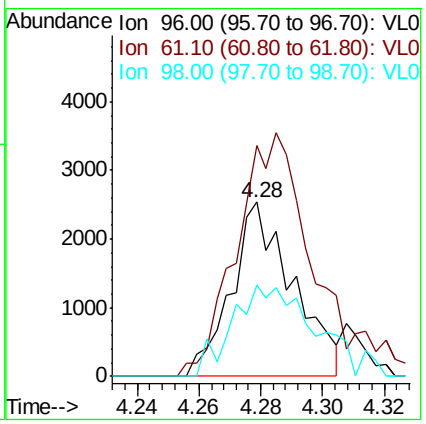


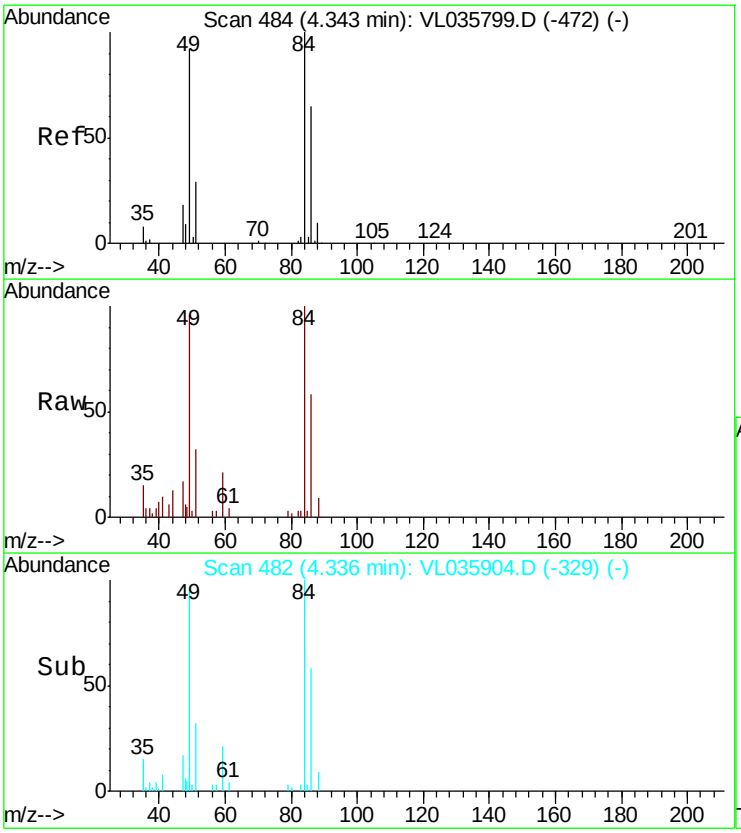

#18
1,1-Dichloroethene
Concen: 0.039 ppbv
RT: 4.28 min Scan# 464
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion: 96 Resp: 3508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.7 | 108.5 | 162.7 |
| 98 | 52.2 | 50.7 | 76.1 |

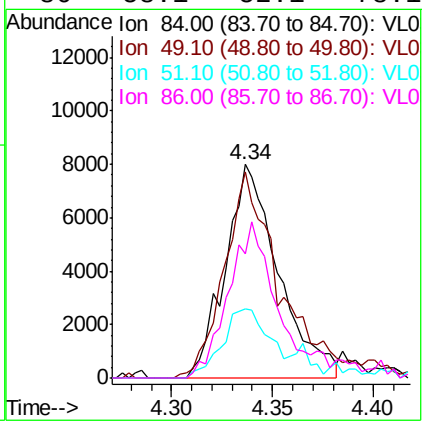


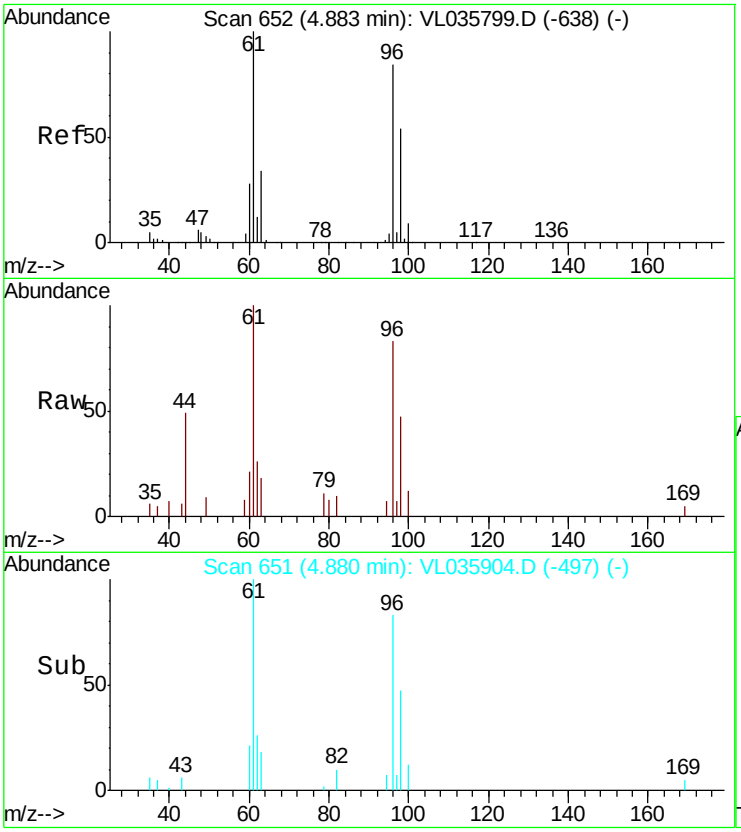




#20
Methylene Chloride
Concen: 0.175 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 84 Resp: 14696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 93.8 | 73.8 | 110.8 |
| 51 | 32.5 | 23.0 | 34.4 |
| 86 | 58.1 | 52.1 | 78.1 |



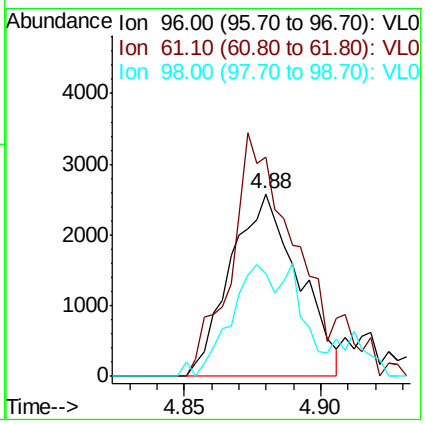


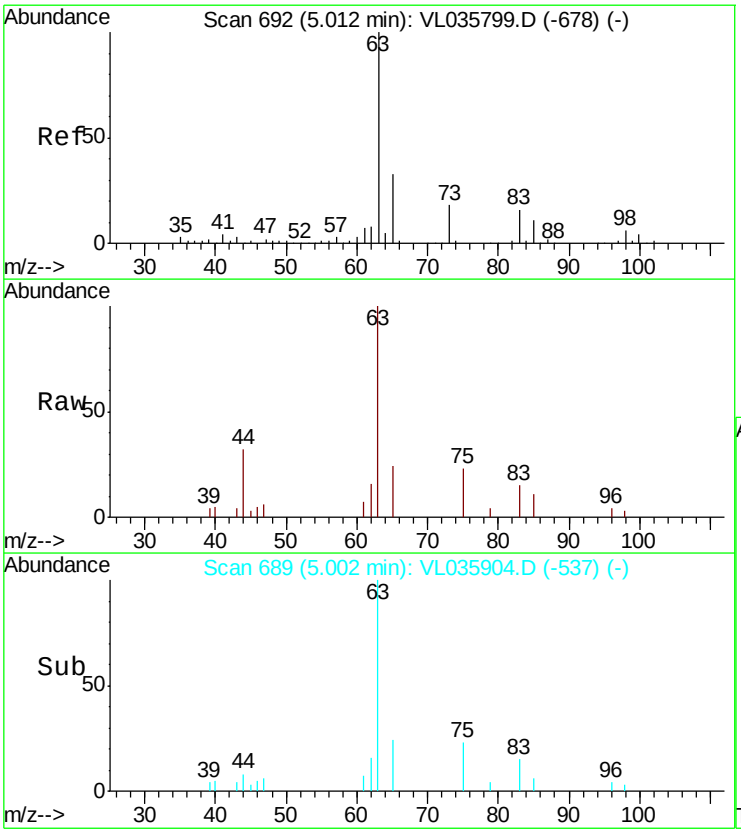

#22
trans-1,2-Dichloroethene
Concen: 0.049 ppbv
RT: 4.88 min Scan# 651
Delta R.T. -0.00 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion: 96 Resp: 4466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.5 | 95.4 | 143.0 |
| 98 | 48.4 | 51.8 | 77.6# |

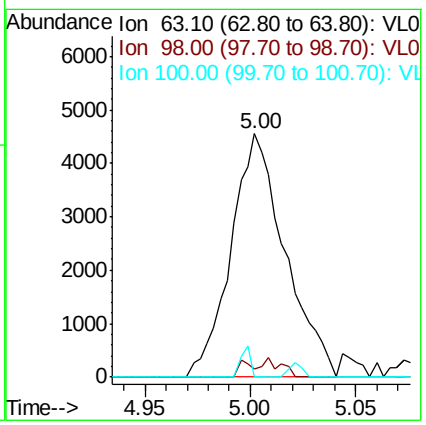


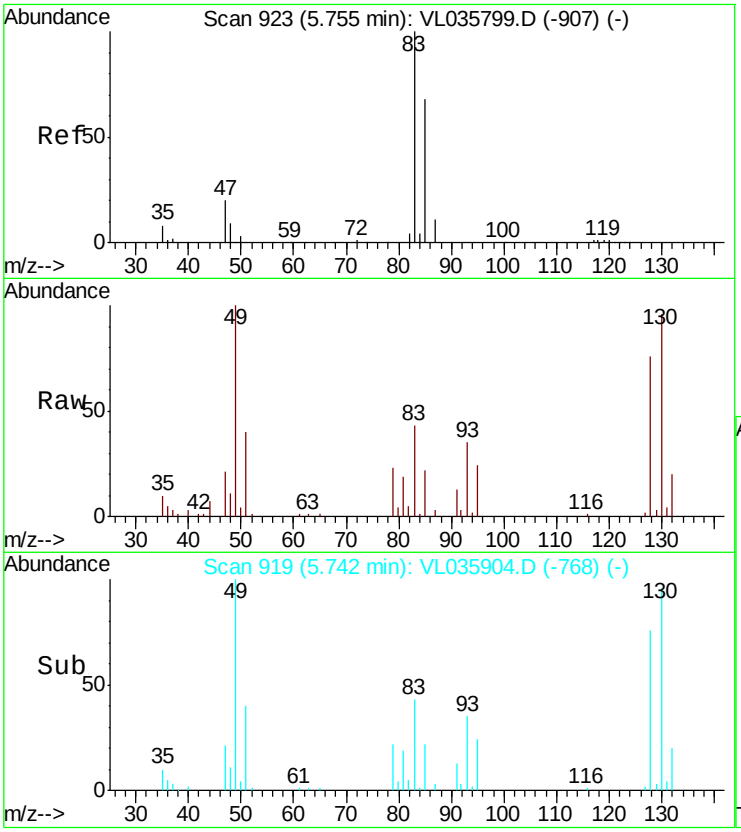




#24
1,1-Dichloroethane
Concen: 0.051 ppbv
RT: 5.00 min Scan# 689
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 63 Resp: 8093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.5 | 3.0 | 9.2 |
| 100 | 0.0 | 1.8 | 5.4# |



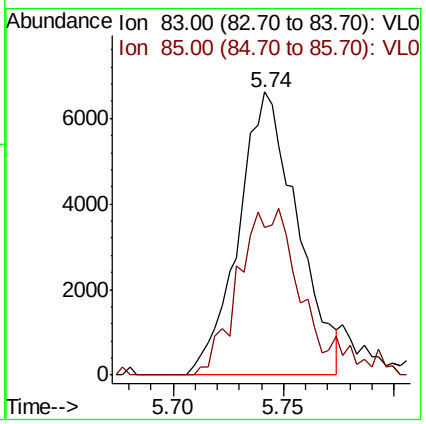


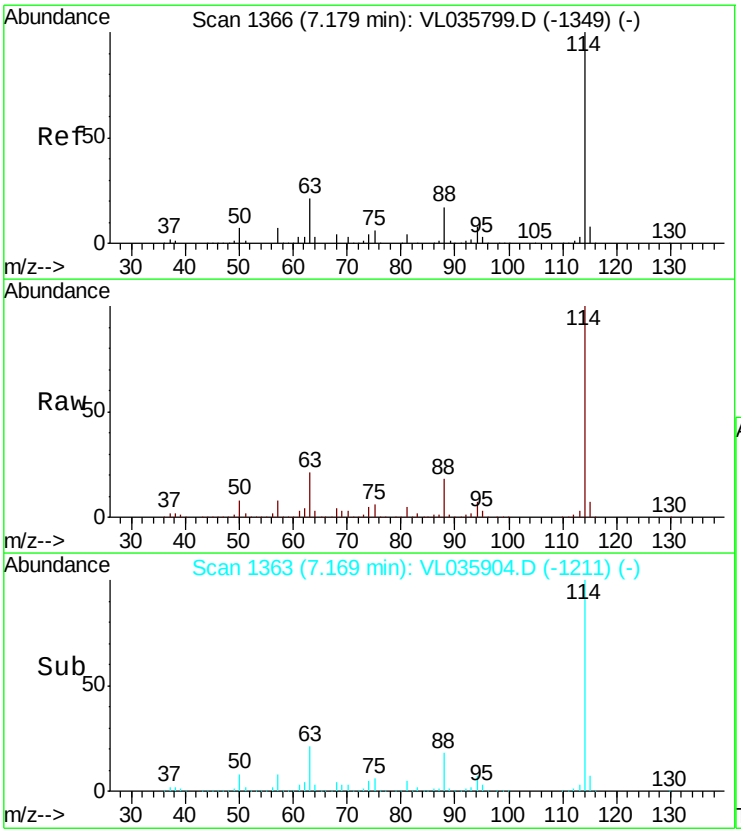

#29
Chloroform
Concen: 0.048 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion: 83 Resp: 12272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 52.0 | 54.6 | 81.8# |

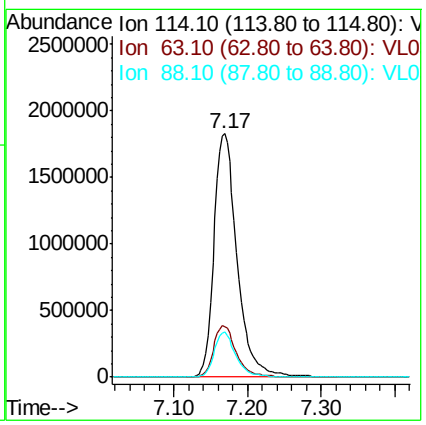


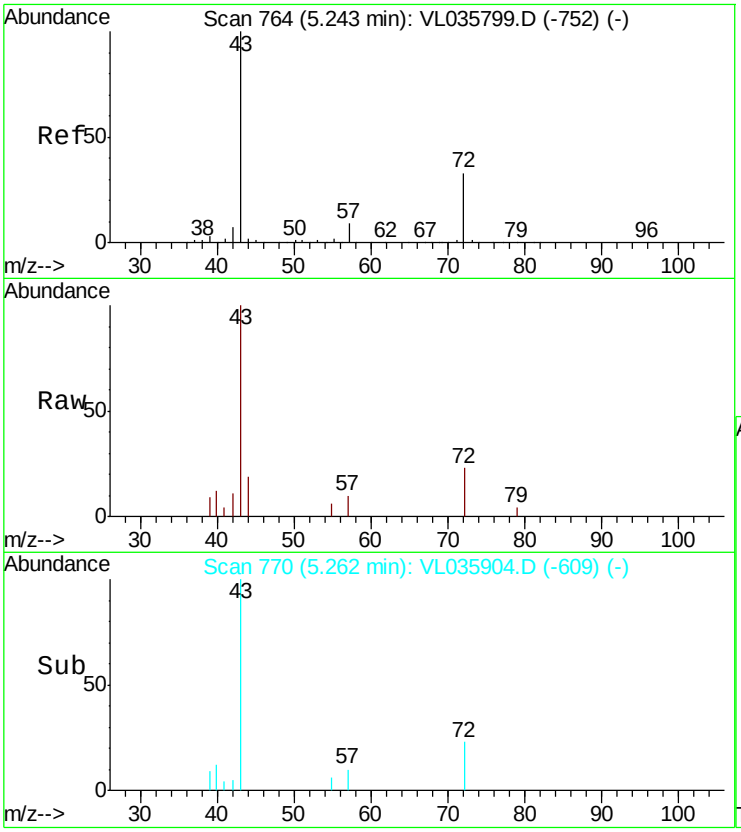




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion:114 Resp: 3972356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 16.1 | 24.1 |
| 88 | 17.4 | 13.7 | 20.5 |



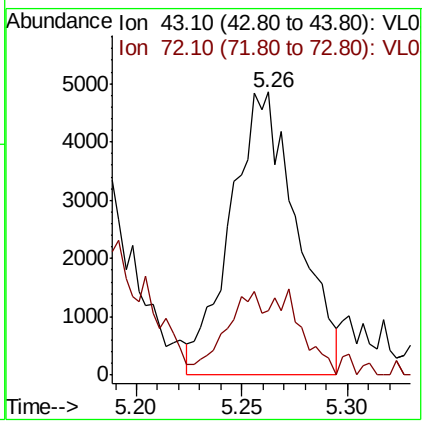


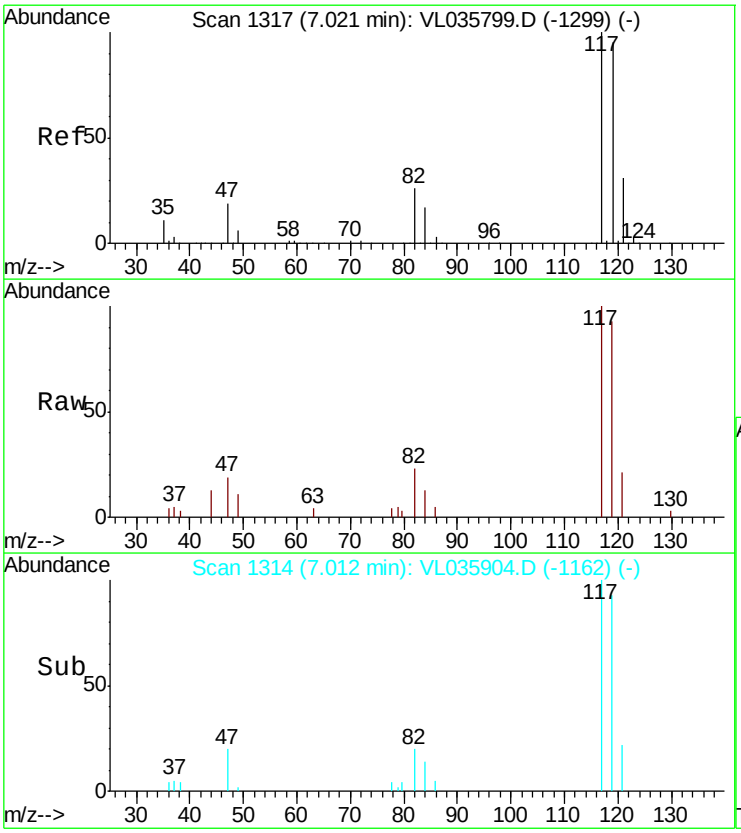

#34
2-Butanone
Concen: 0.082 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.02 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion: 43 Resp: 10616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.8 | 26.5 | 39.7 |

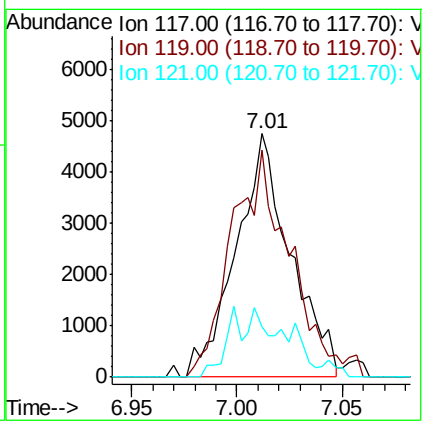


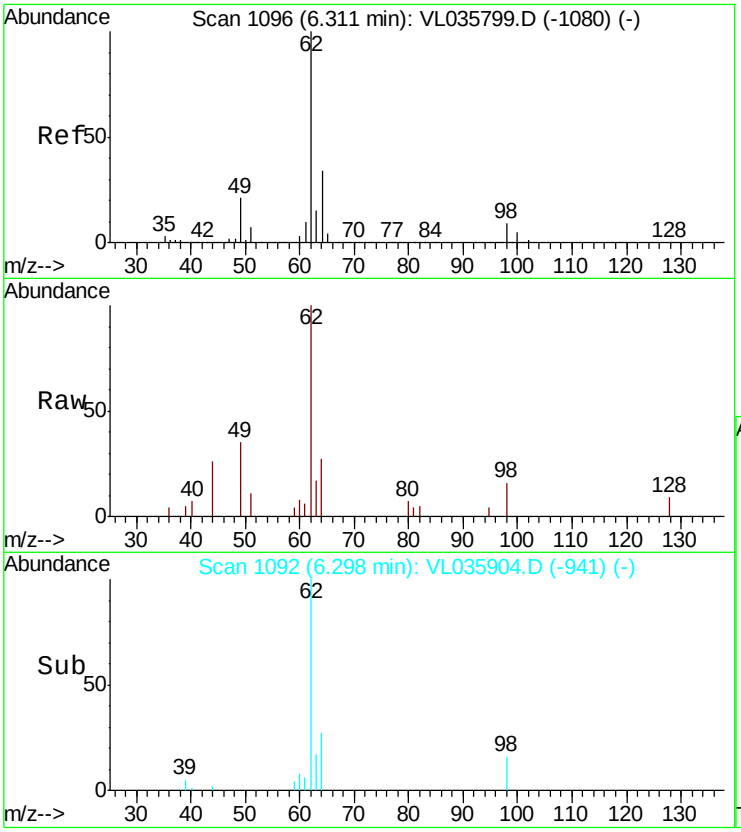




#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion:117 Resp: 8492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.3 | 75.6 | 113.4 |
| 121 | 20.7 | 25.1 | 37.7# |



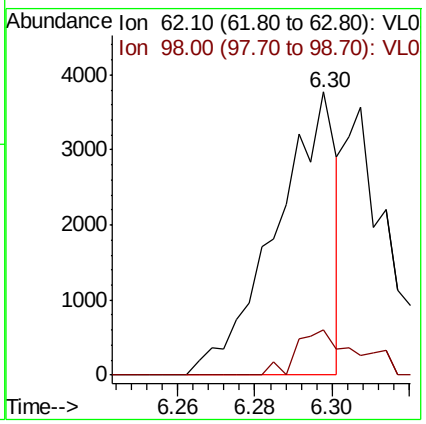


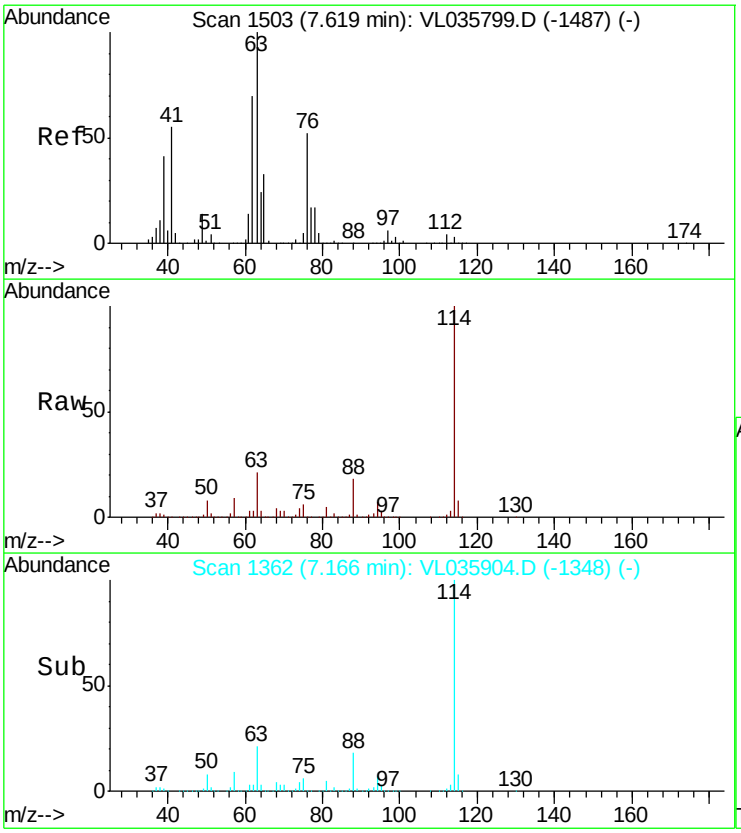

#37
1,2-Dichloroethane
Concen: 0.030 ppbv
RT: 6.30 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion: 62 Resp: 4080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 16.0 | 6.9 | 10.3# |

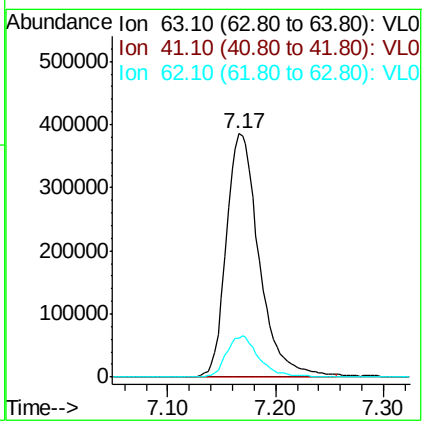


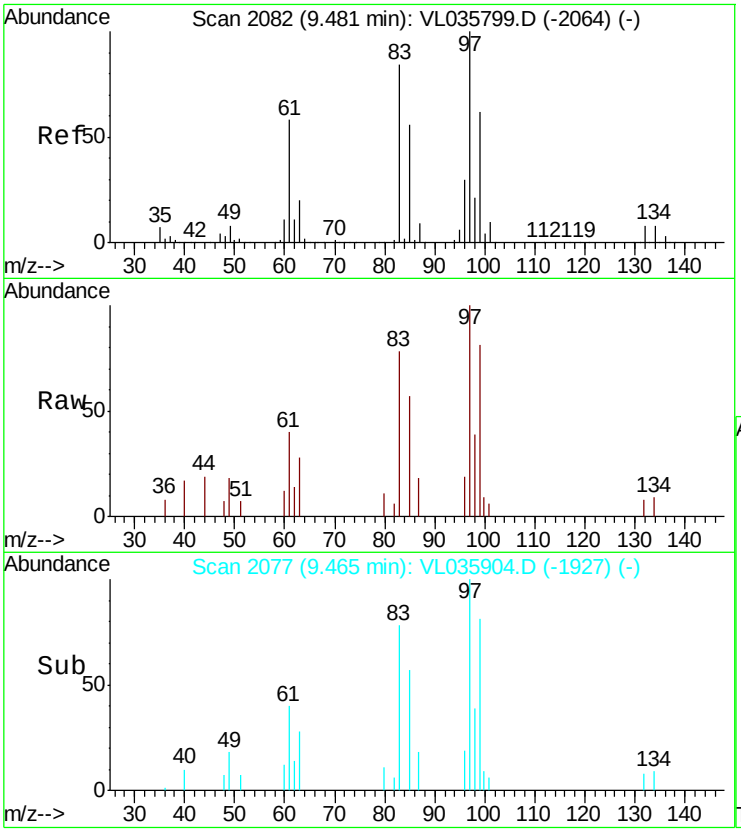




#39
1,2-Dichloropropane
Concen: 8.238 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.45 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 63 Resp: 819082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 43.8 | 65.6# |
| 62 | 16.2 | 56.2 | 84.2# |



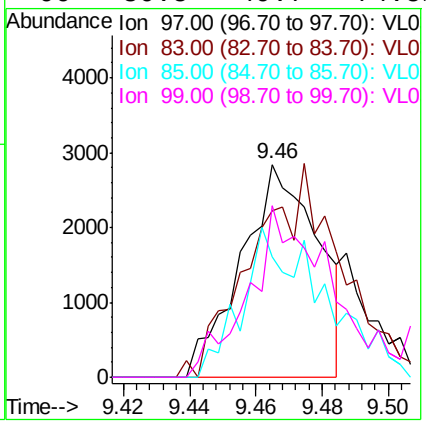


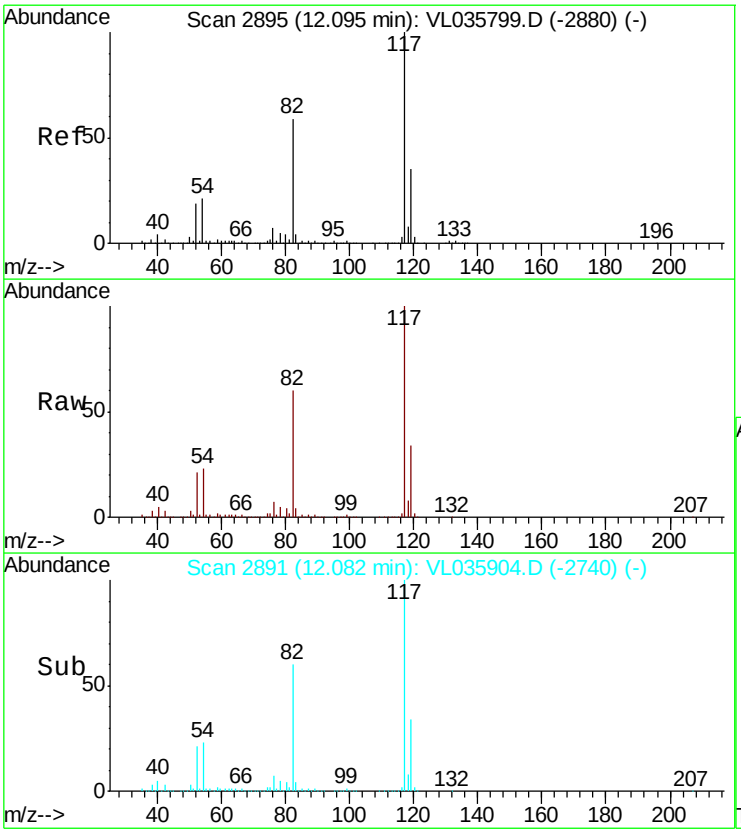

#47
1,1,2-Trichloroethane
Concen: 0.034 ppbv
RT: 9.46 min Scan# 2077
Delta R.T. -0.02 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion: 97 Resp: 4545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 70.2 | 67.1 | 100.7 |
| 85 | 56.7 | 44.7 | 67.1 |
| 99 | 80.5 | 49.7 | 74.5# |

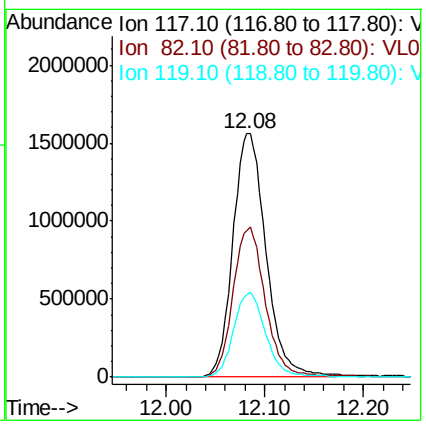


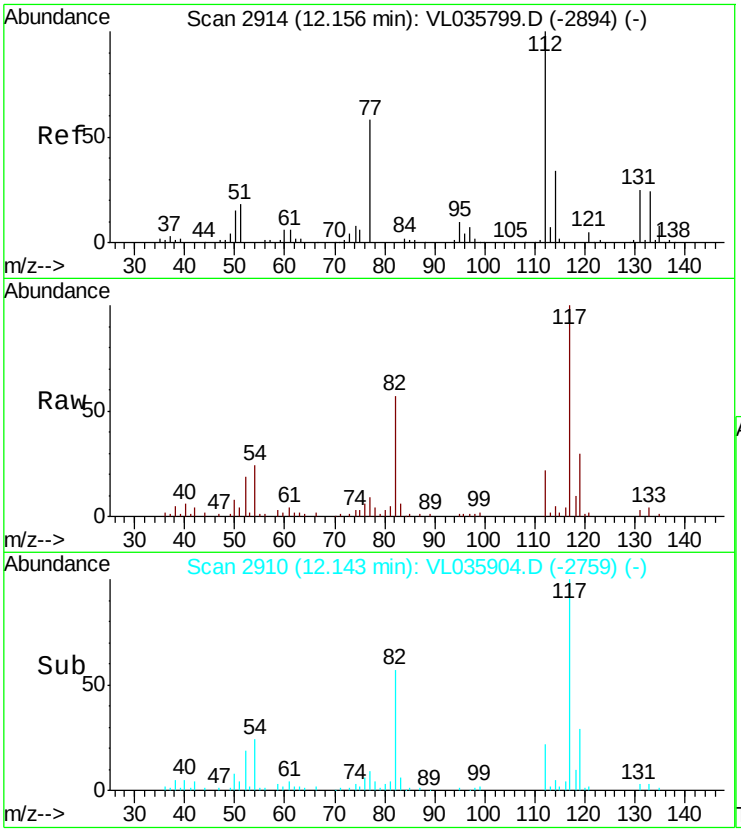




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion:117 Resp: 3632004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.2 | 50.6 | 76.0 |
| 119 | 34.4 | 52.6 | 78.8# |



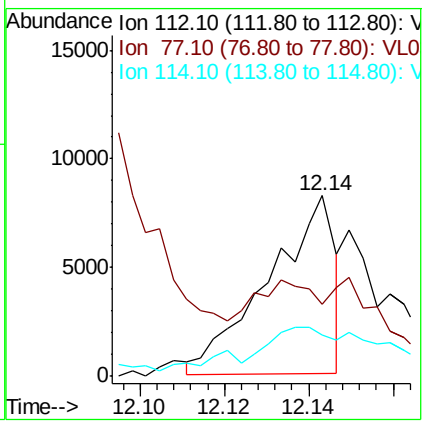


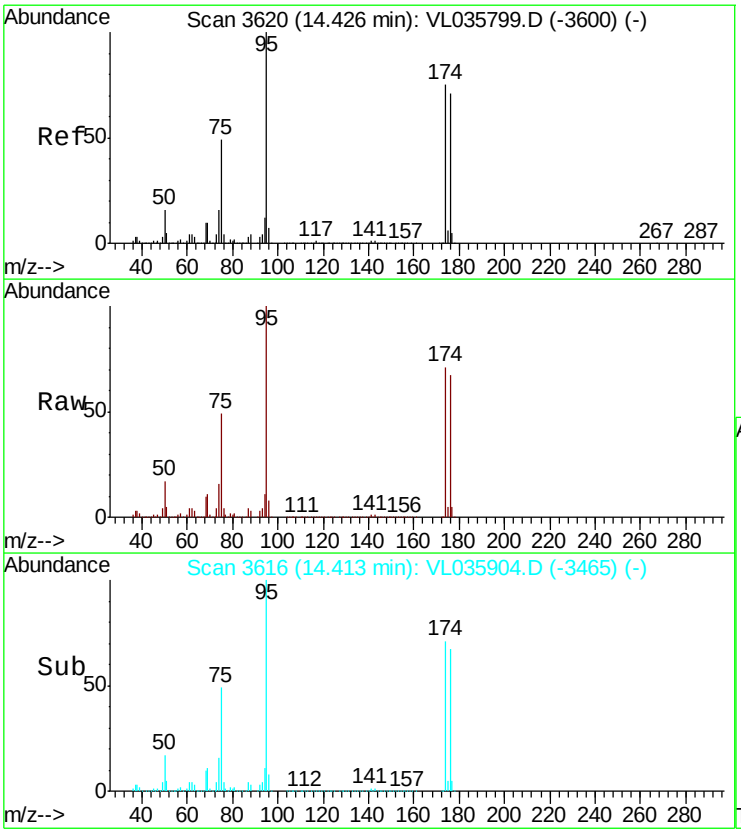

#57
Chlorobenzene
Concen: 0.031 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :** MSVOA_W
**ClientSampleId :**

Tgt Ion:112 Resp: 8913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 0.0 | 47.5 | 71.3# |
| 114 | 16.7 | 30.3 | 37.1# |

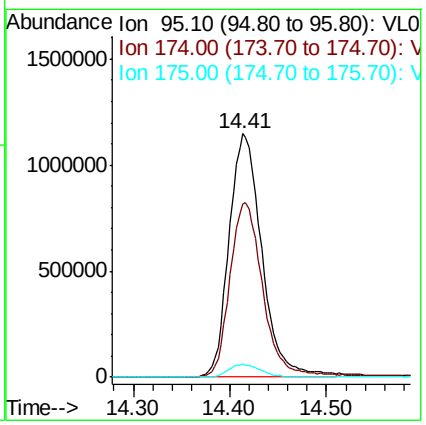


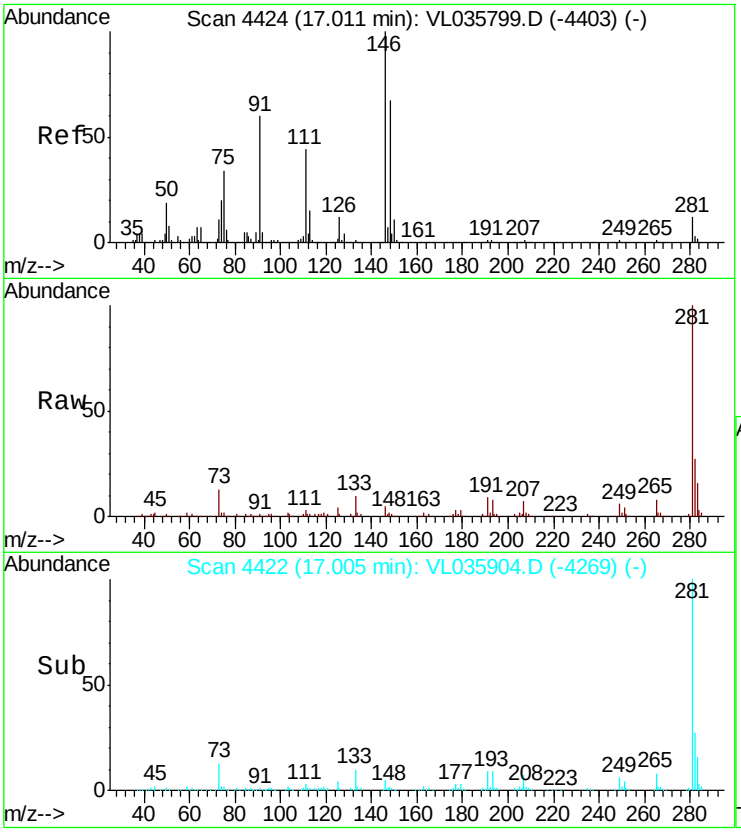




#68
1-Bromo-4-Fluorobenzene
Concen: 10.493 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

Tgt Ion: 95 Resp: 2707697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.2 | 59.8 | 89.6 |
| 175 | 5.2 | 4.3 | 6.5 |






#75
1,3-Dichlorobenzene
Concen: 0.037 ppbv
RT: 17.00 min Scan# 4422
Delta R.T. -0.01 min
Lab File: VL035904.D
Acq: 11 Nov 2020 8:31

**Instrument :**
MSVOA_W
**ClientSampleId :**

Tgt Ion:146 Resp: 10150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 91.9 | 21.8 | 65.4# |
| 148 | 88.2 | 32.5 | 97.5 |