Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112519\
Data File : VL034415.D
Acq On : 25 Nov 2019 20:59
Operator : SY/AP
Sample : K5971-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :**

Quant Time: Nov 26 00:45:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.67 | 49 | 927331 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.20 | 114 | 1808918 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.13 | 117 | 1766746 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.47 | 95 | 1534420 | 10.32 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 103.20% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.02 | 85 | 117571 | 0.701 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 2.96 | 51 | 68413 | 0.591 | ppbv | # | 80 |
| 4) Chloromethane | 3.12 | 50 | 33042 | 0.484 | ppbv | # | 87 |
| 9) Propene | 3.18 | 41 | 53383 | 1.039 | ppbv | | 91 |
| 10) Heptane | 8.14 | 43 | 5616 | 0.042 | ppbv | # | 27 |
| 11) Trichlorofluoromethane | 3.94 | 101 | 35425 | 0.212 | ppbv | | 94 |
| 13) Ethanol | 3.59 | 45 | 1880762 | 131.439 | ppbv | | 97 |
| 15) Acetone | 3.83 | 43 | 1009540 | 7.603 | ppbv | | 100 |
| 17) tert-Butyl alcohol | 3.96 | 59 | 132872 | 1.190 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 3.96 | 45 | 3504369 | 41.172 | ppbv | # | 99 |
| 20) Methylene Chloride | 4.34 | 84 | 98310 | 2.088 | ppbv | | 98 |
| 21) Allyl Chloride | 4.17 | 41 | 18994 | 0.239 | ppbv | # | 1 |
| 23) Vinyl Acetate | 5.07 | 43 | 51441 | 0.297 | ppbv | # | 83 |
| 25) Ethyl Acetate | 5.69 | 43 | 163397 | 0.690 | ppbv | # | 87 |
| 26) Hexane | 5.69 | 57 | 104534 | 1.027 | ppbv | # | 48 |
| 30) Cyclohexane | 7.15 | 84 | 4656 | 0.060 | ppbv | # | 1 |
| 34) 2-Butanone | 5.25 | 43 | 45135 | 0.303 | ppbv | | 100 |
| 36) Benzene | 6.91 | 78 | 38072 | 0.211 | ppbv | # | 94 |
| 39) 1,2-Dichloropropane | 7.19 | 63 | 541859 | 7.778 | ppbv | # | 24 |
| 44) 2,2,4-Trimethylpentane | 7.89 | 57 | 16386 | 0.050 | ppbv | # | 21 |
| 53) Toluene | 9.84 | 91 | 116702 | 0.568 | ppbv | | 98 |
| 60) o-Xylene | 13.75 | 91 | 7226 | 0.031 | ppbv | # | 33 |
| 76) 1,4-Dichlorobenzene | 17.20 | 146 | 13219 | 0.084 | ppbv | # | 6 |

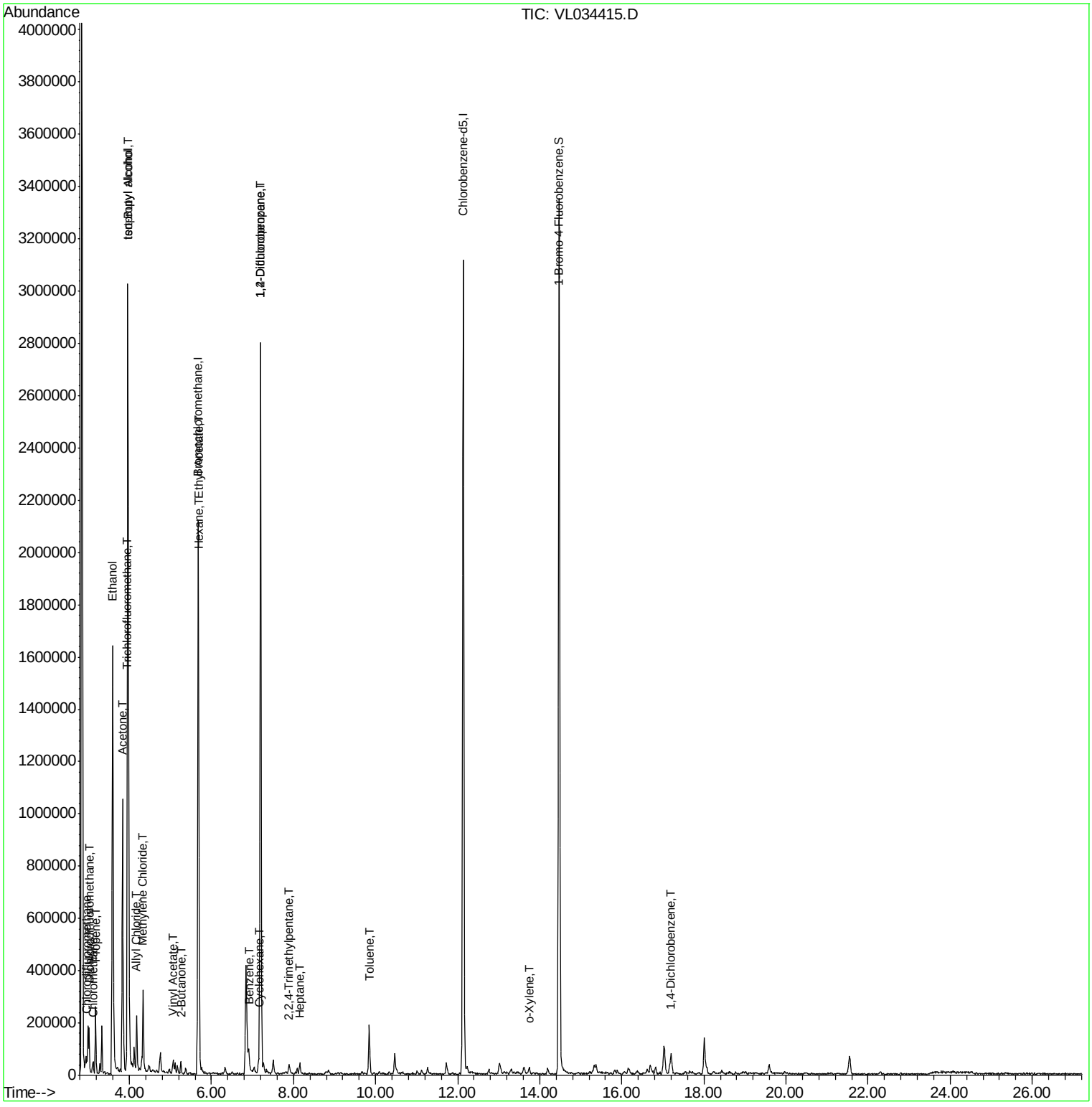
(#) = qualifier out of range (m) = manual integration (+) = signals summed

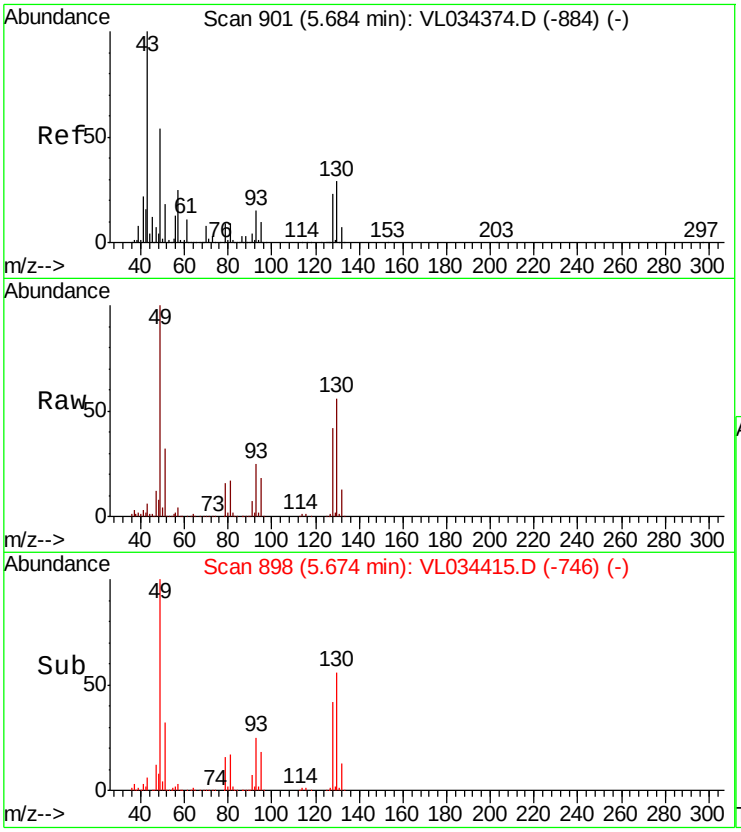
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112519\
Data File : VL034415.D
Acq On : 25 Nov 2019 20:59
Operator : SY/AP
Sample : K5971-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**

Quant Time: Nov 26 00:45:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration



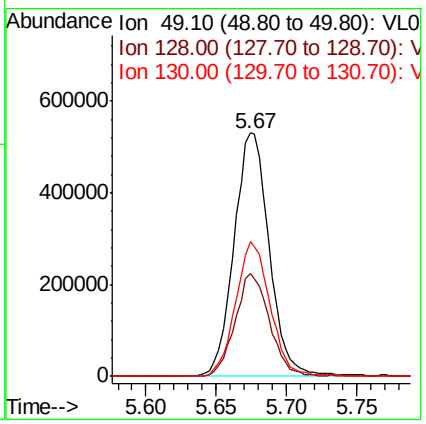


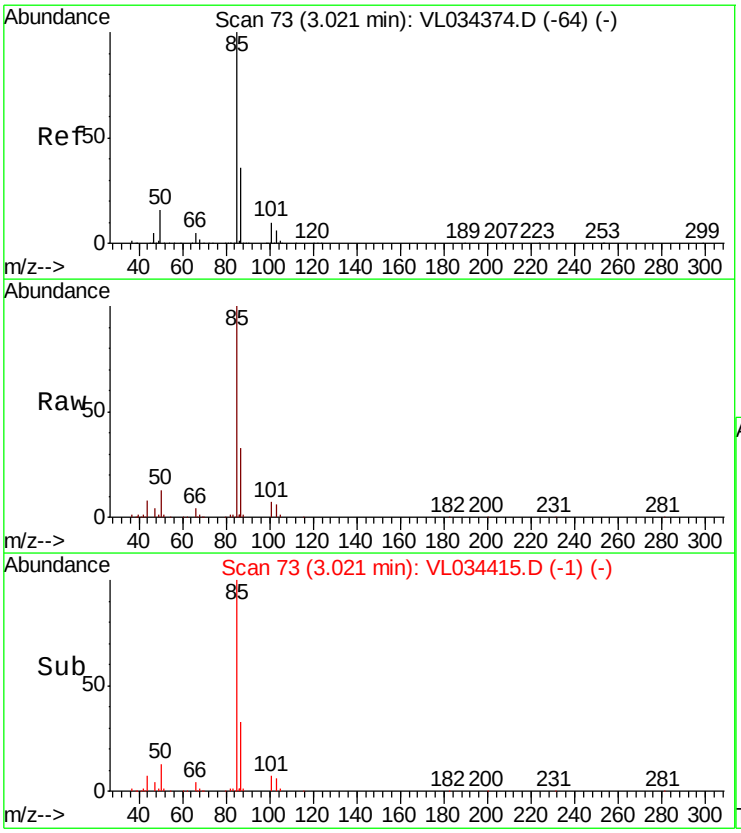

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 49 Resp: 927331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 41.8 | 21.8 | 65.3 |
| 130 | 54.6 | 28.0 | 84.0 |

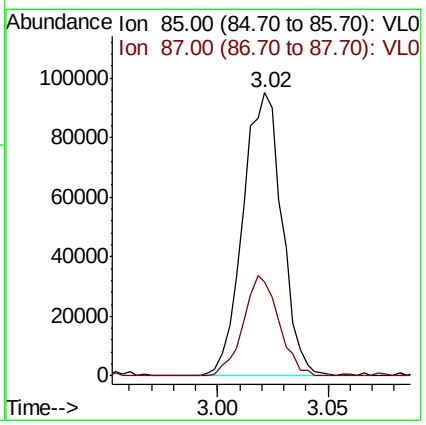


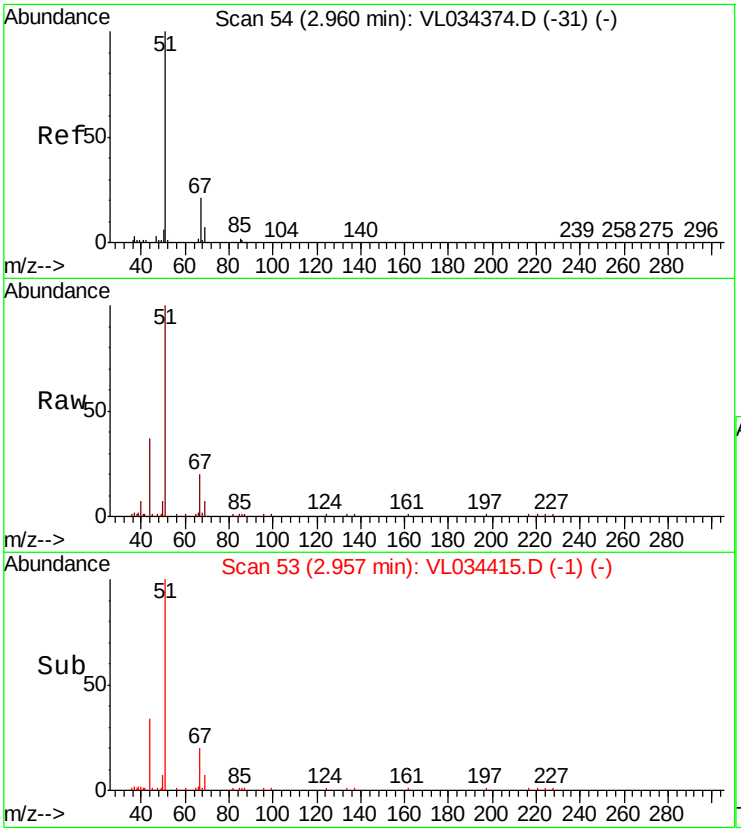




#2
Dichlorodifluoromethane
Concen: 0.701 ppbv
RT: 3.02 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 85 Resp: 117571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 28.5 | 42.7 |



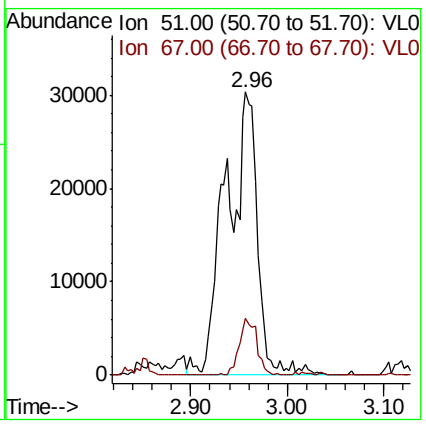


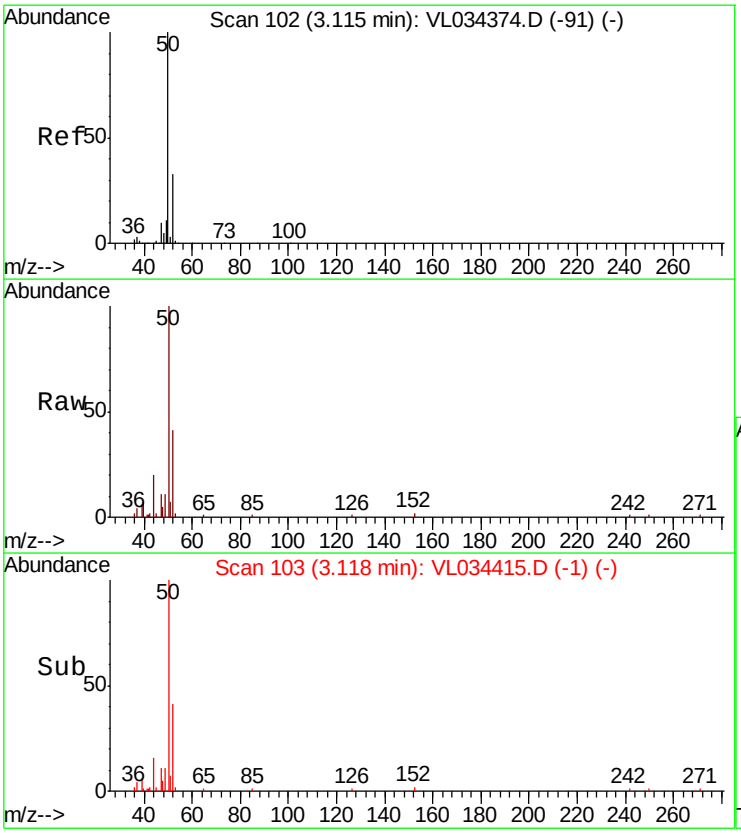

#3
Chlorodifluoromethane
Concen: 0.591 ppbv
RT: 2.96 min Scan# 53
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 51 Resp: 68413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 11.2 | 16.2 | 24.2# |

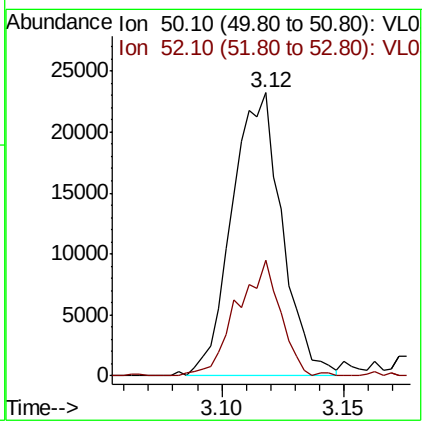


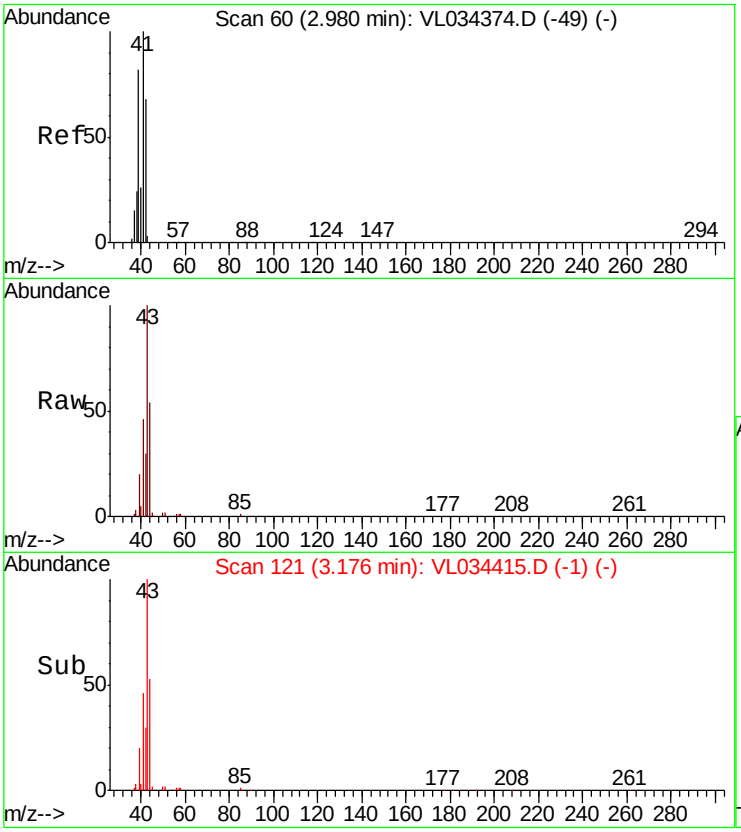




#4
Chloromethane
Concen: 0.484 ppbv
RT: 3.12 min Scan# 103
Delta R.T. 0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 50 Resp: 33042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 40.7 | 26.8 | 40.2# |



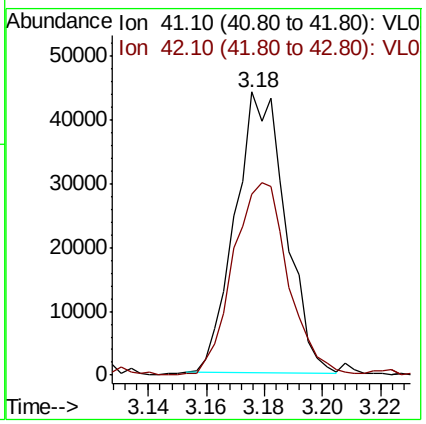


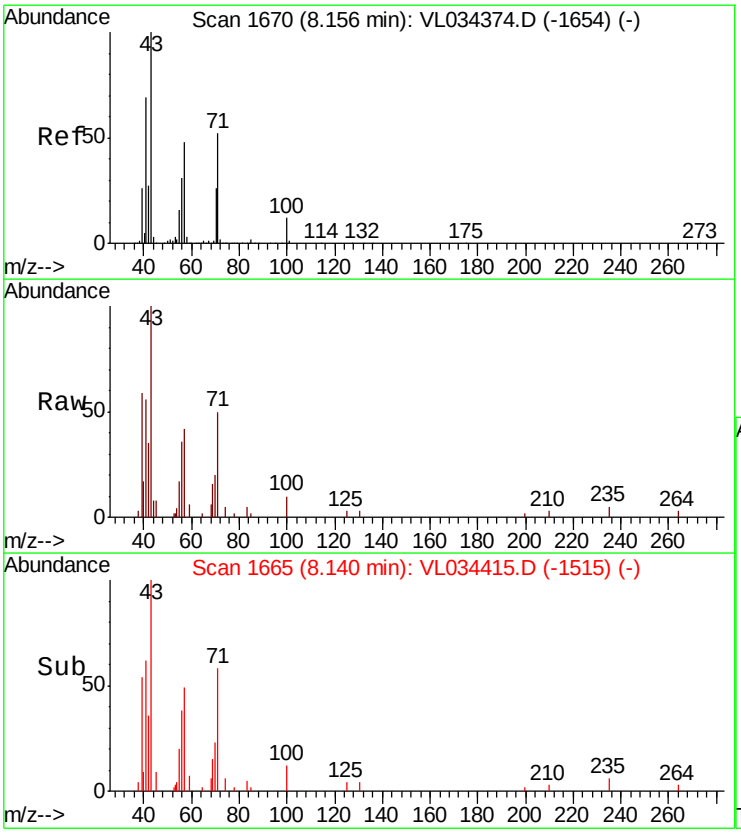

#9
Propene
Concen: 1.039 ppbv
RT: 3.18 min Scan# 121
Delta R.T. 0.20 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 41 Resp: 53383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 75.8 | 54.6 | 82.0 |

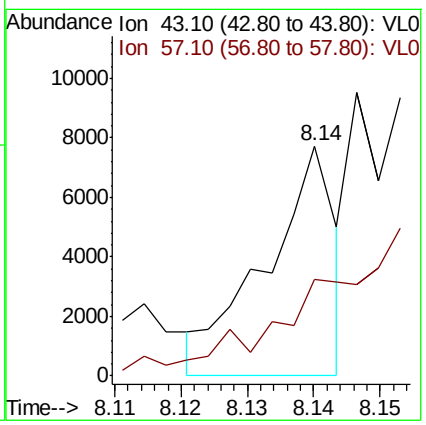


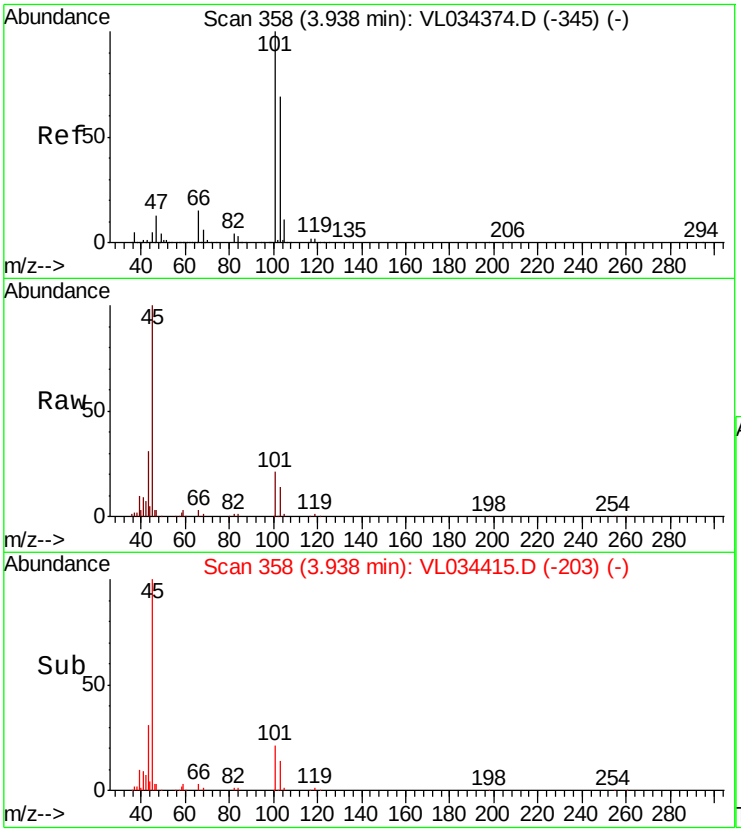




#10
Heptane
Concen: 0.042 ppbv
RT: 8.14 min Scan# 1665
Delta R.T. -0.02 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 43 Resp: 5616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 40.2 | 60.2# |



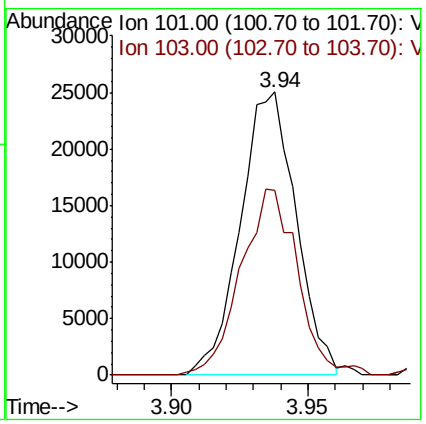


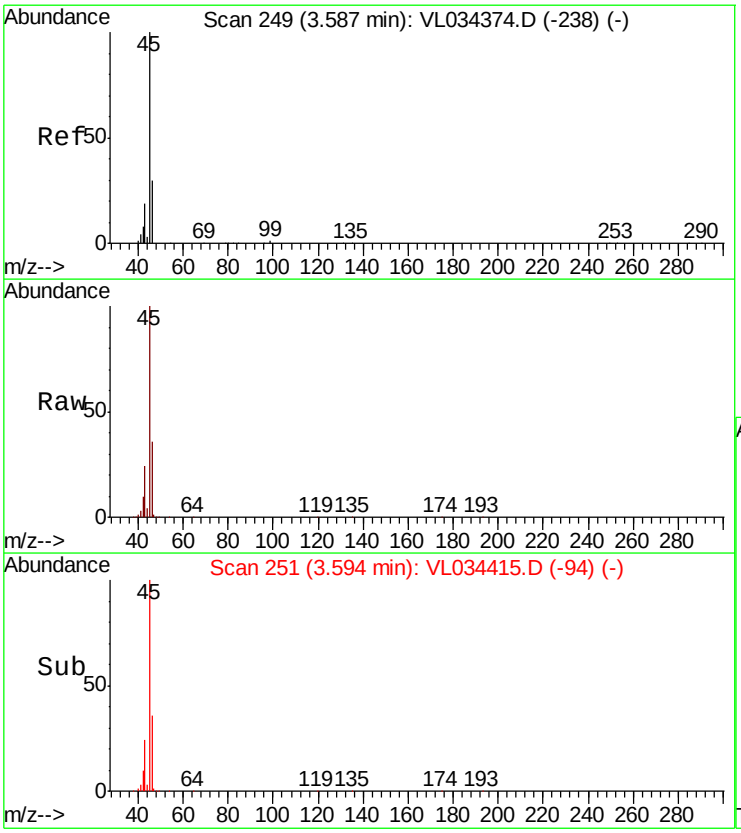

#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:101 Resp: 35425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 55.4 | 83.0 |

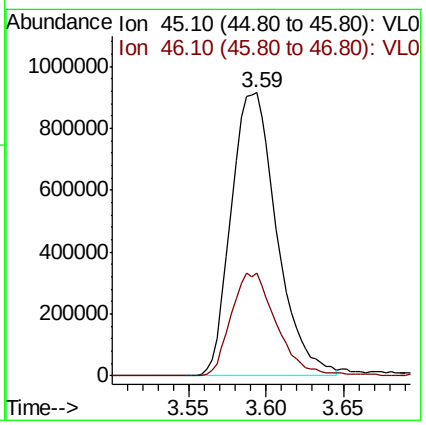


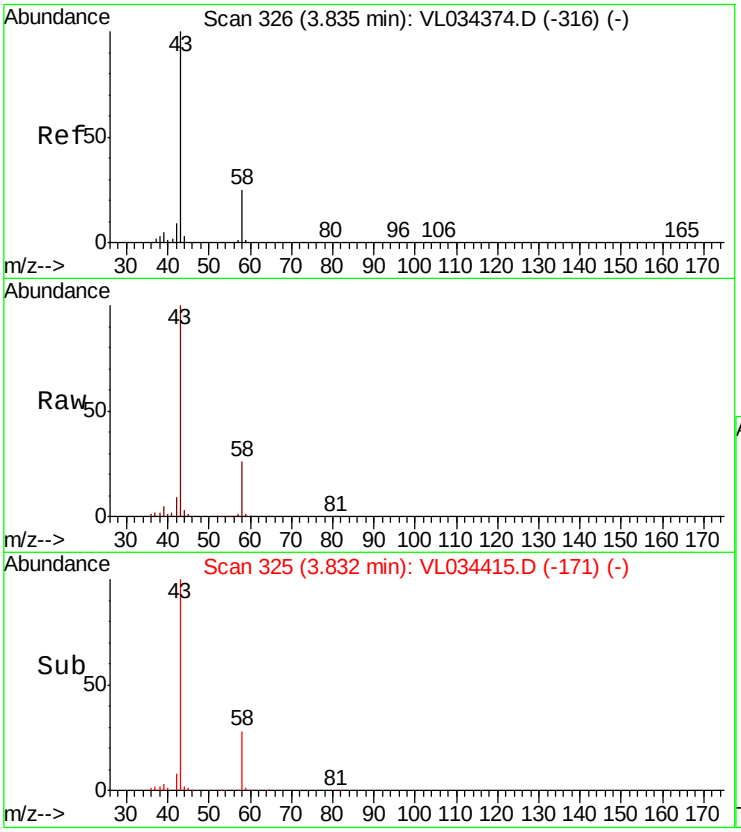




#13
Ethanol
Concen: 131.439 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 45 Resp: 1880762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.4 | 13.8 | 55.4 |



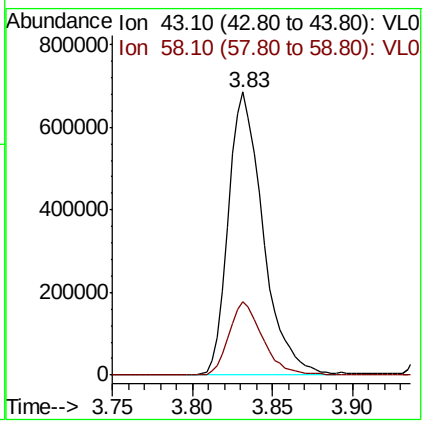


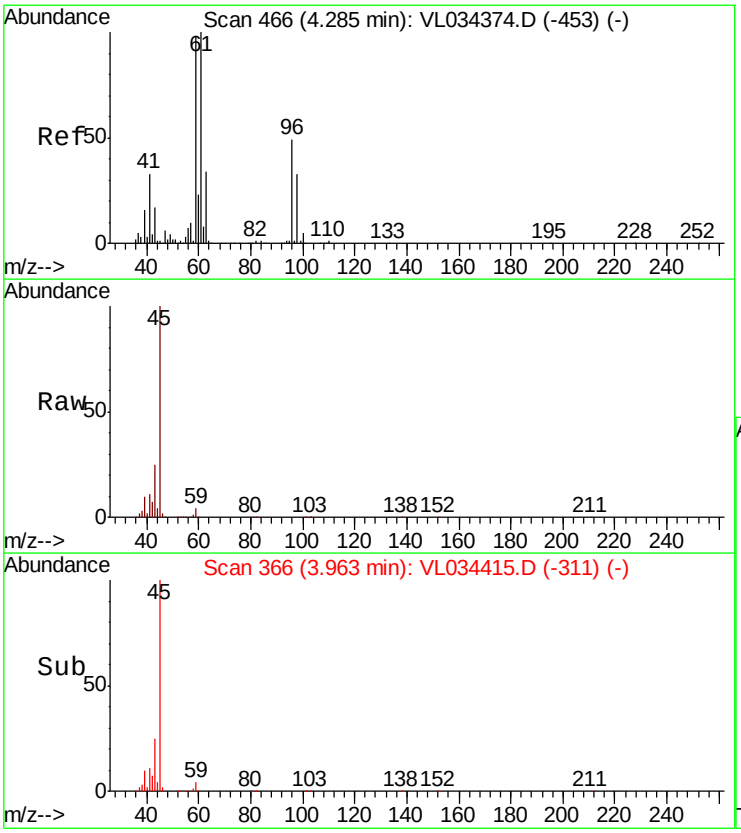

#15
Acetone
Concen: 7.603 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 43 Resp: 1009540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.3 | 20.2 | 30.4 |

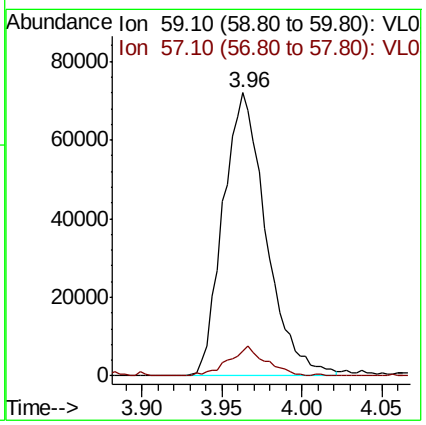


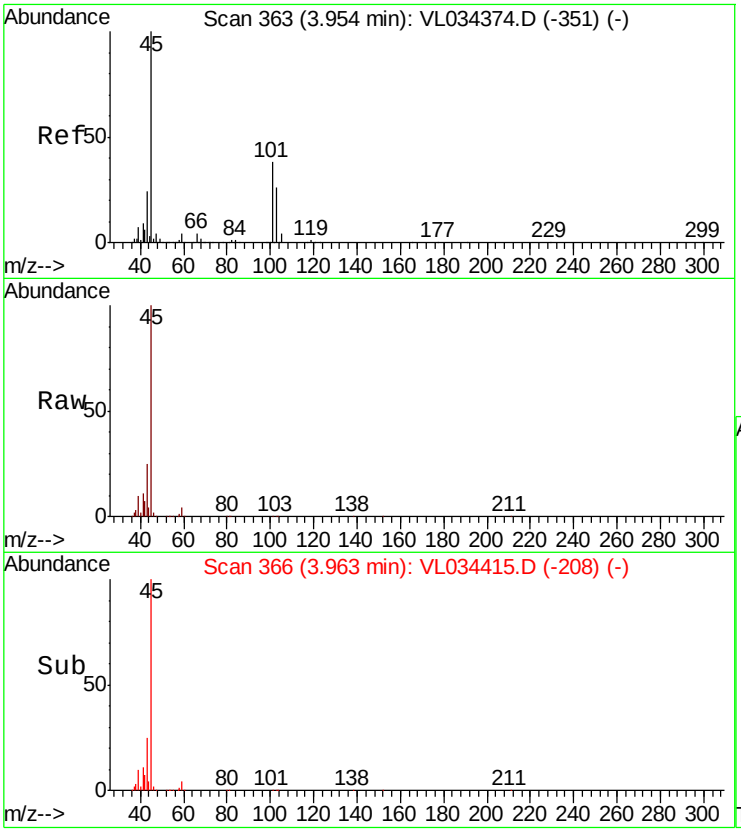




#17
tert-Butyl alcohol
Concen: 1.190 ppbv
RT: 3.96 min Scan# 366
Delta R.T. -0.32 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 59 Resp: 132872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.2 | 8.8 | 13.2 |



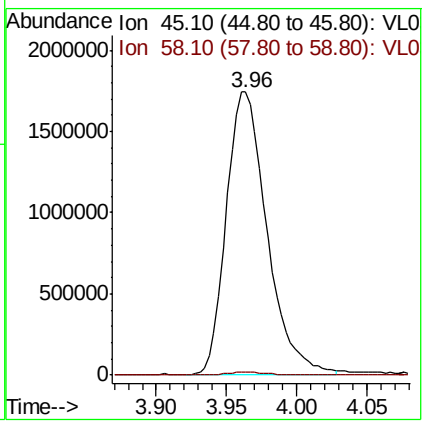


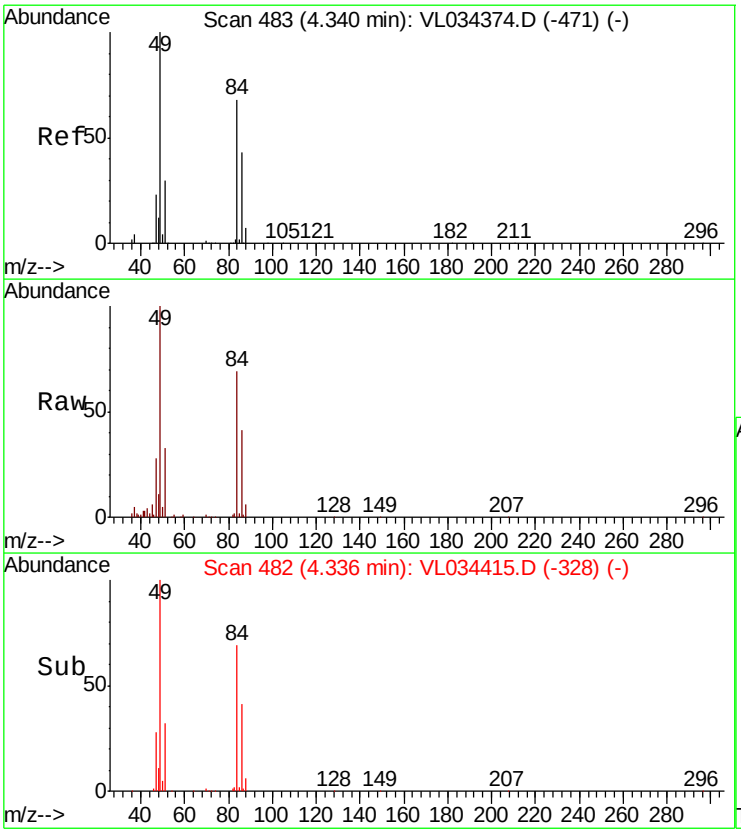

#19
Isopropyl Alcohol
Concen: 41.172 ppbv
RT: 3.96 min Scan# 366
Delta R.T. 0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 45 Resp: 3504369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.2 | 1.3 | 1.9# |

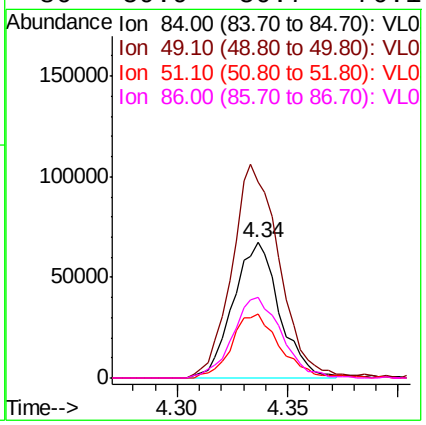


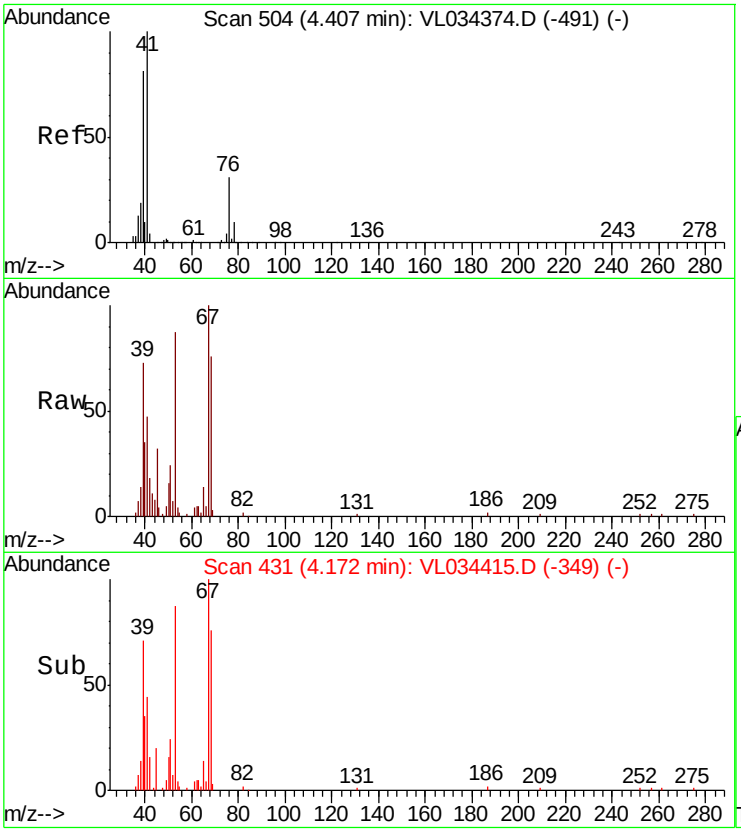




#20
Methylene Chloride
Concen: 2.088 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 84 Resp: 98310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 144.7 | 116.8 | 175.2 |
| 51 | 46.9 | 35.6 | 53.4 |
| 86 | 59.9 | 50.7 | 76.1 |



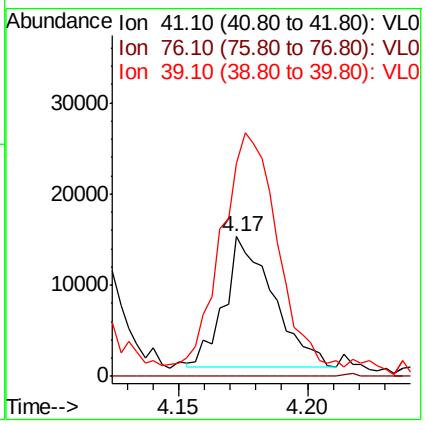


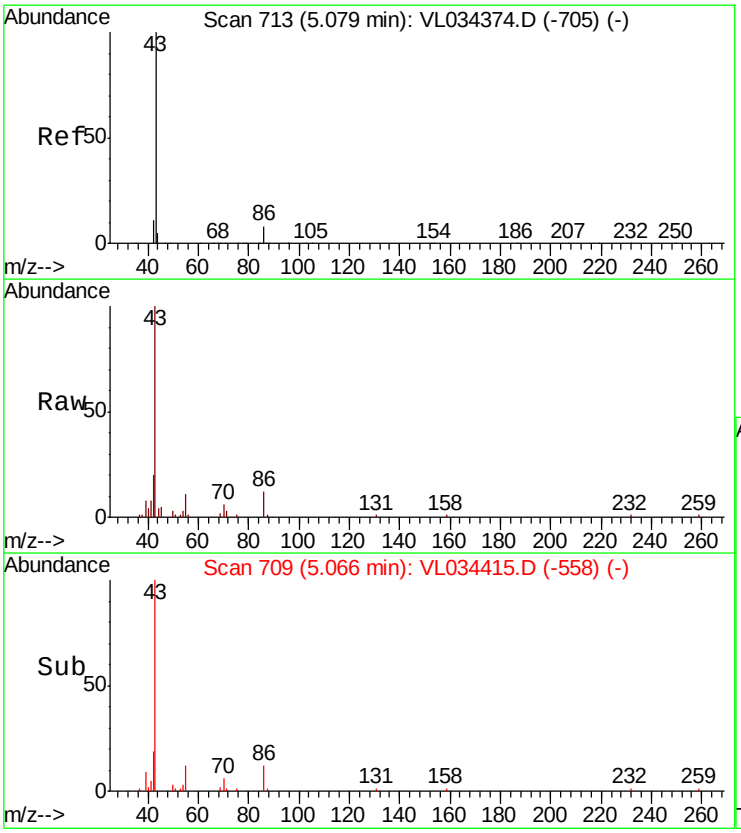

#21
Allyl Chloride
Concen: 0.239 ppbv
RT: 4.17 min Scan# 431
Delta R.T. -0.23 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :** MSVOA_L
**ClientSampleId :**

Tgt Ion: 41 Resp: 18994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.5 | 24.2 | 36.2# |
| 39 | 221.4 | 66.9 | 100.3# |

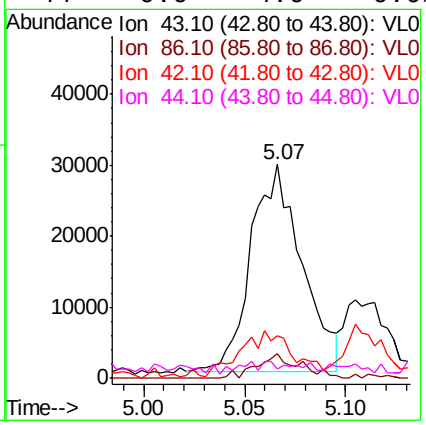


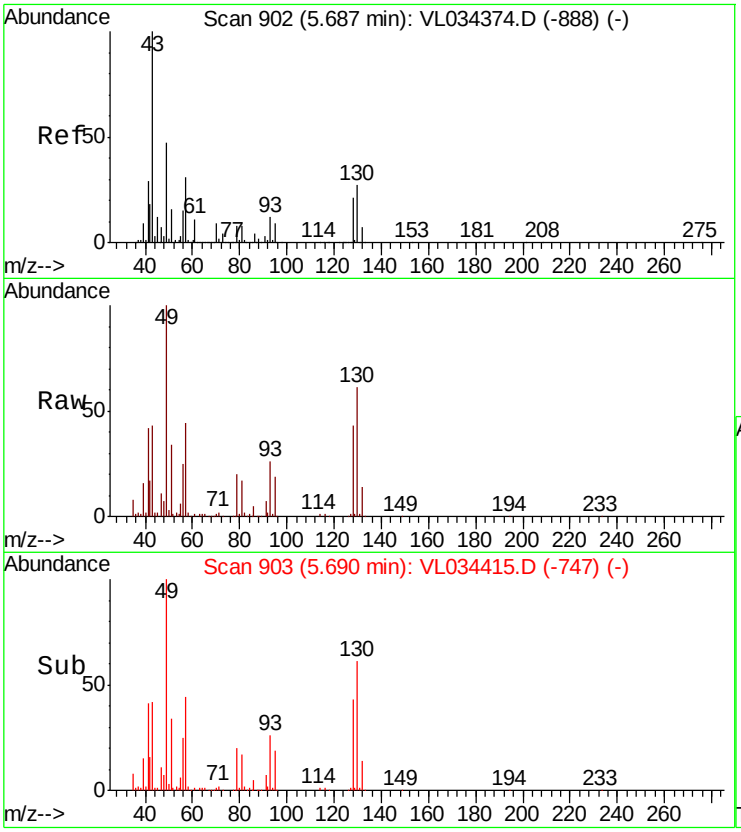




#23
Vinyl Acetate
Concen: 0.297 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 43 Resp: 51441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.1 | 5.8 | 8.6# |
| 42 | 18.9 | 8.9 | 13.3# |
| 44 | 0.0 | 4.0 | 6.0# |



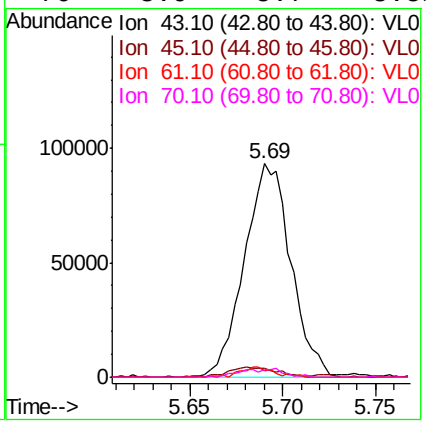


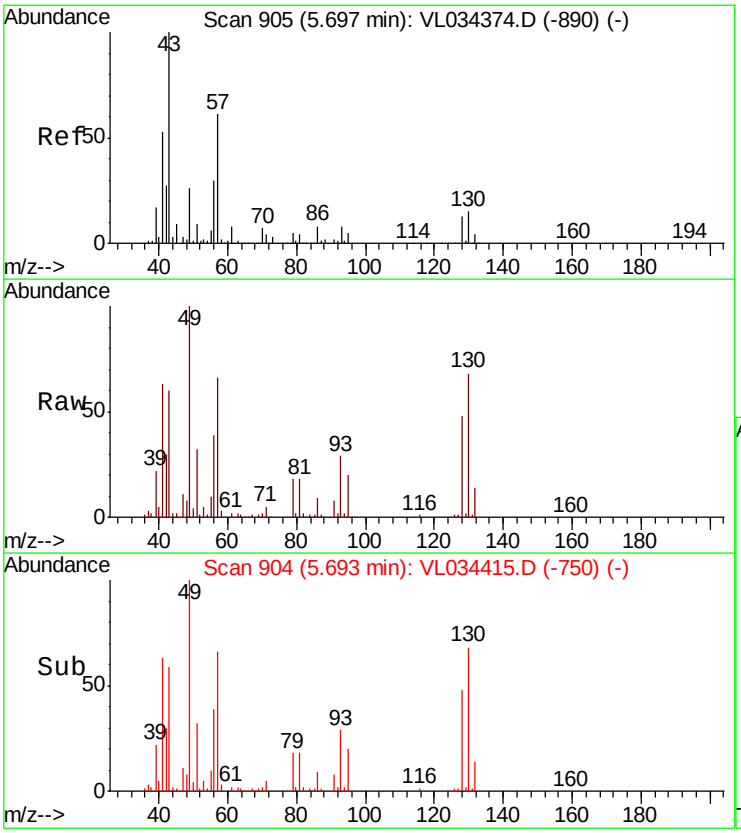

#25
Ethyl Acetate
Concen: 0.690 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :** MSVOA_L
**ClientSampleId :**

Tgt Ion: 43 Resp: 163397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 5.5 | 8.2 | 12.4# |
| 61 | 3.7 | 7.5 | 11.3# |
| 70 | 3.9 | 5.7 | 8.5# |

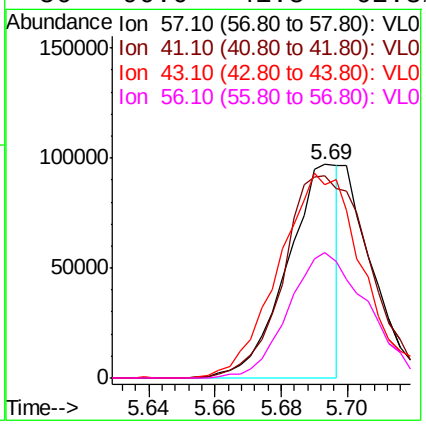


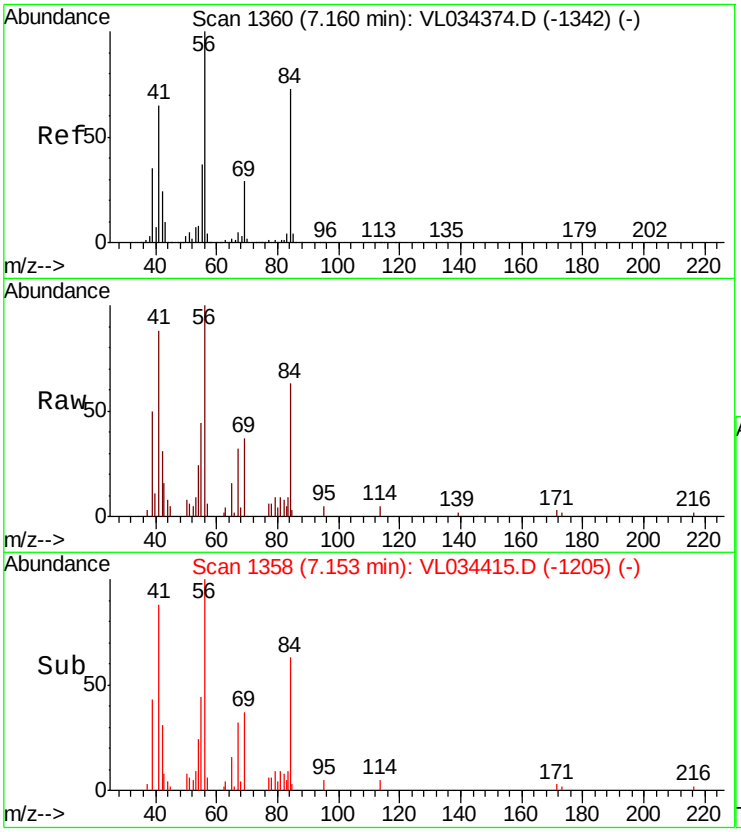




#26
Hexane
Concen: 1.027 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 57 Resp: 104534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 159.4 | 75.0 | 112.4# |
| 43 | 158.3 | 186.6 | 279.8# |
| 56 | 90.0 | 41.5 | 62.3# |



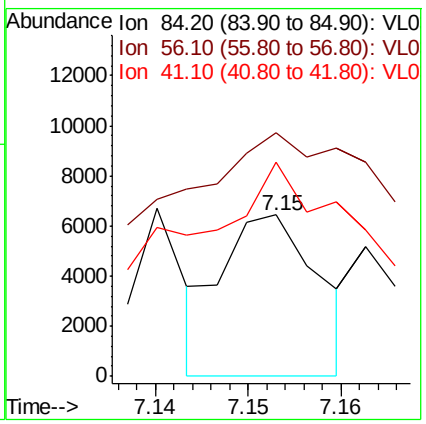


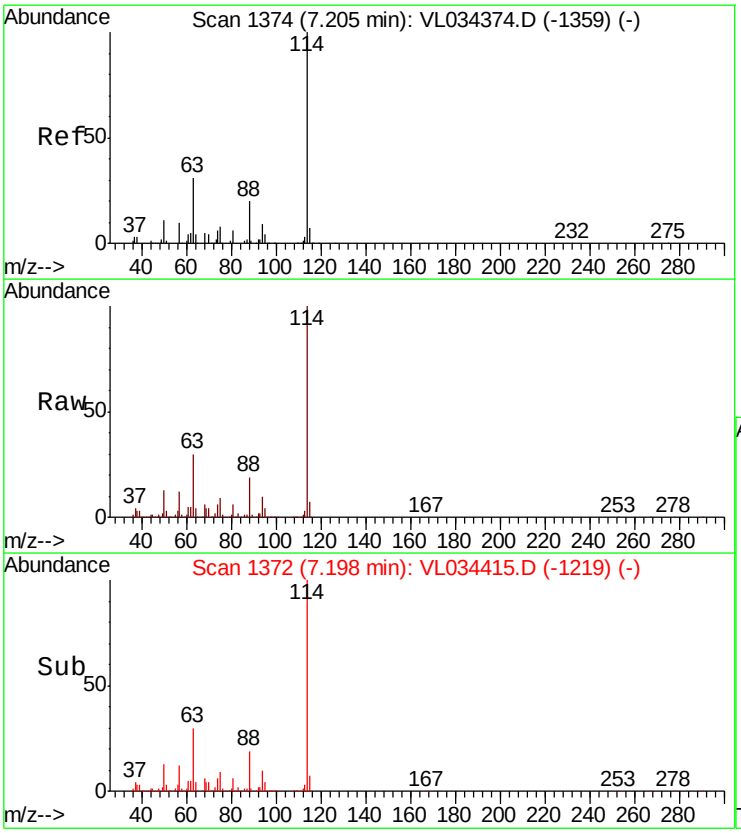

#30
Cyclohexane
Concen: 0.060 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 84 Resp: 4656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 112.6 | 169.0# |
| 41 | 334.5 | 73.4 | 110.2# |

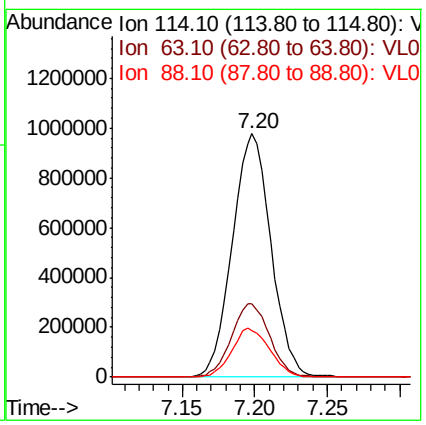


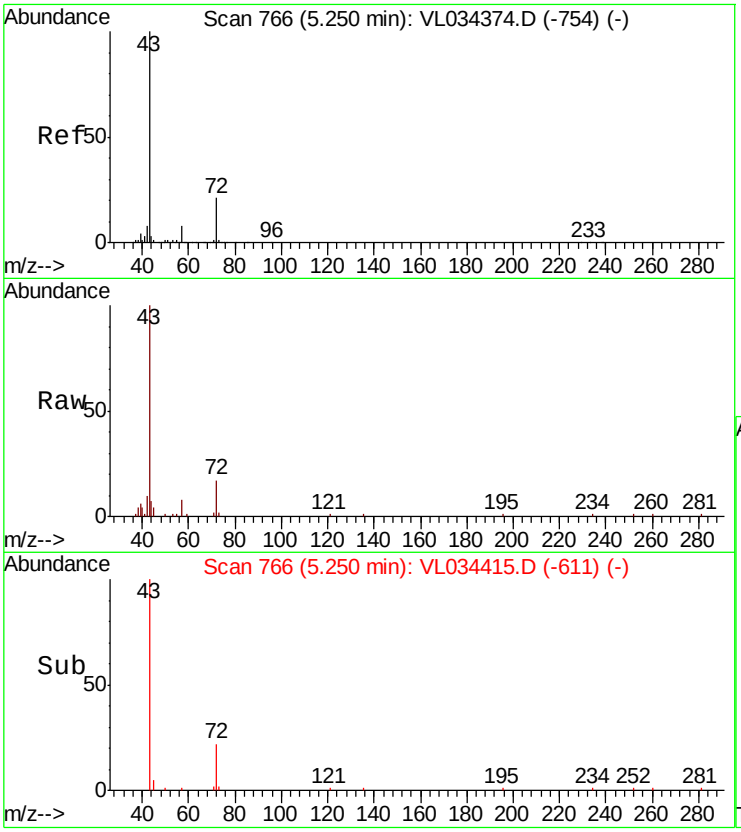




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion:114 Resp: 1808918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 30.1 | 24.2 | 36.4 |
| 88 | 19.9 | 15.9 | 23.9 |



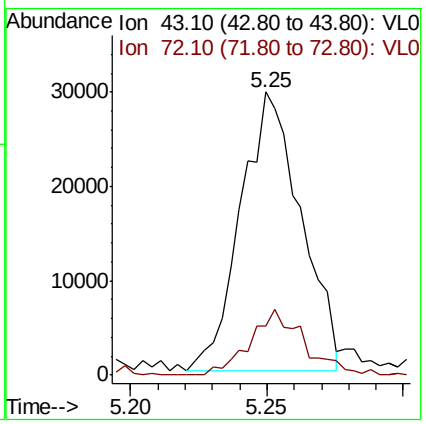


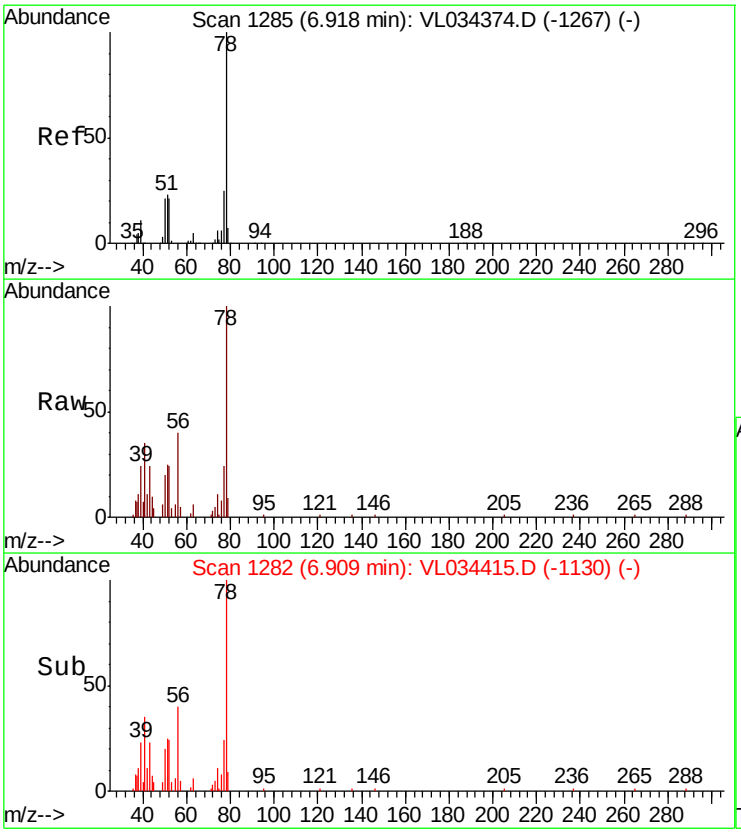

#34
2-Butanone
Concen: 0.303 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 43 Resp: 45135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.5 | 17.0 | 25.6 |

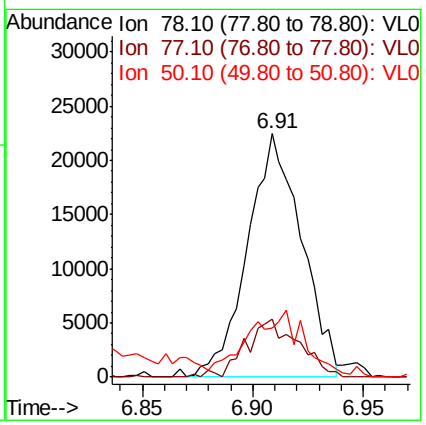


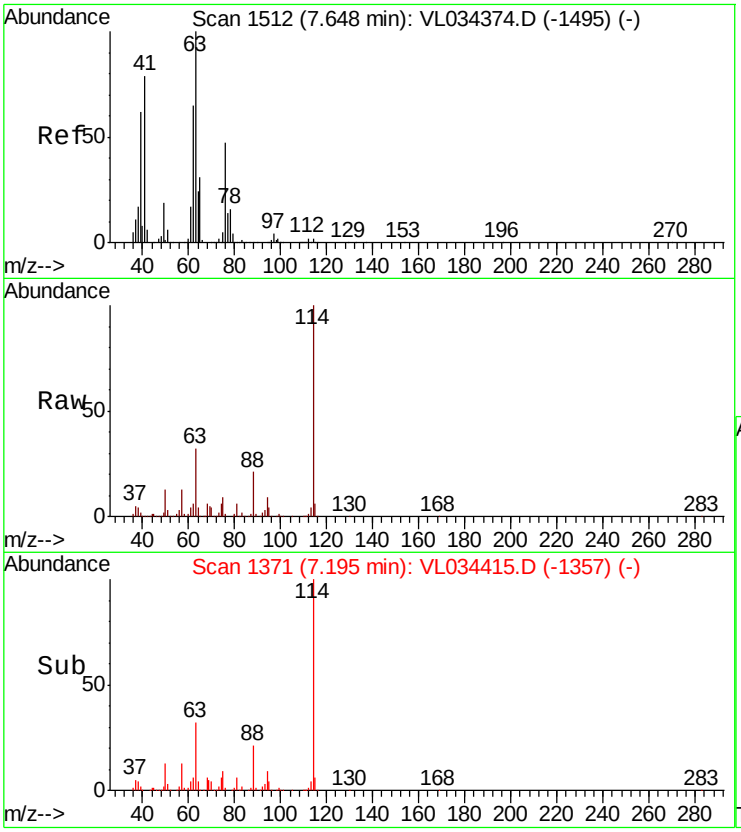




#36
Benzene
Concen: 0.211 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 78 Resp: 38072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.1 | 20.2 | 30.4 |
| 50 | 16.8 | 17.1 | 25.7# |



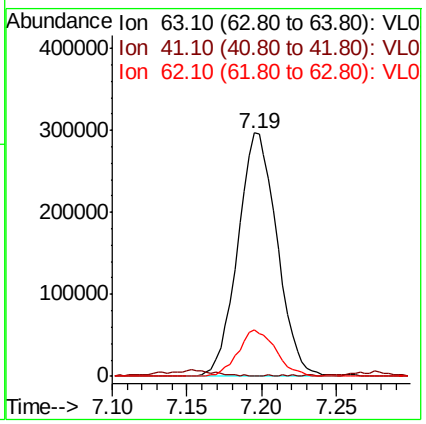


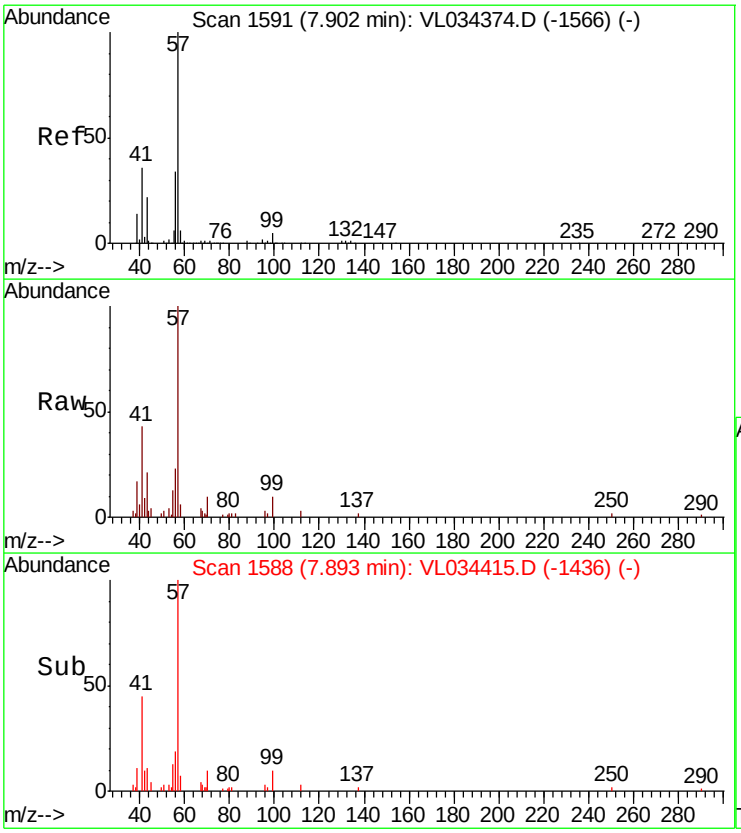

#39
1,2-Dichloropropane
Concen: 7.778 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.45 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 63 Resp: 541859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 63.1 | 94.7# |
| 62 | 19.3 | 52.3 | 78.5# |

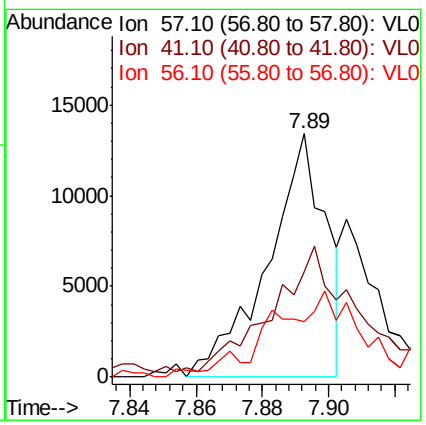


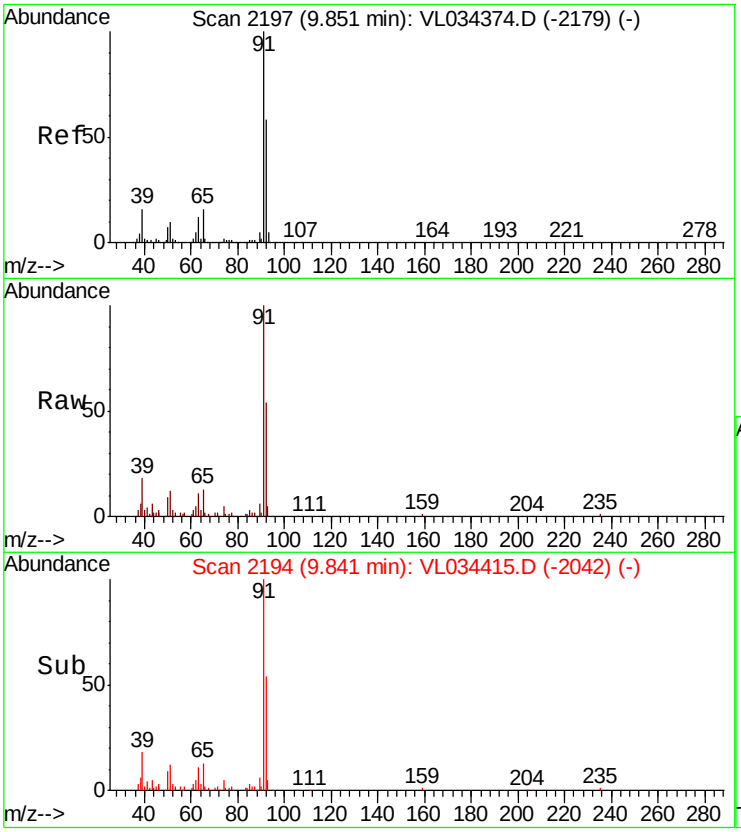




#44
2,2,4-Trimethylpentane
Concen: 0.050 ppbv
RT: 7.89 min Scan# 1588
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 57 Resp: 16386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 91.6 | 28.6 | 42.8# |
| 56 | 65.0 | 25.3 | 37.9# |



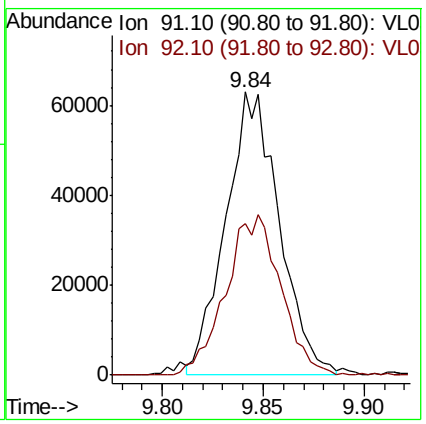


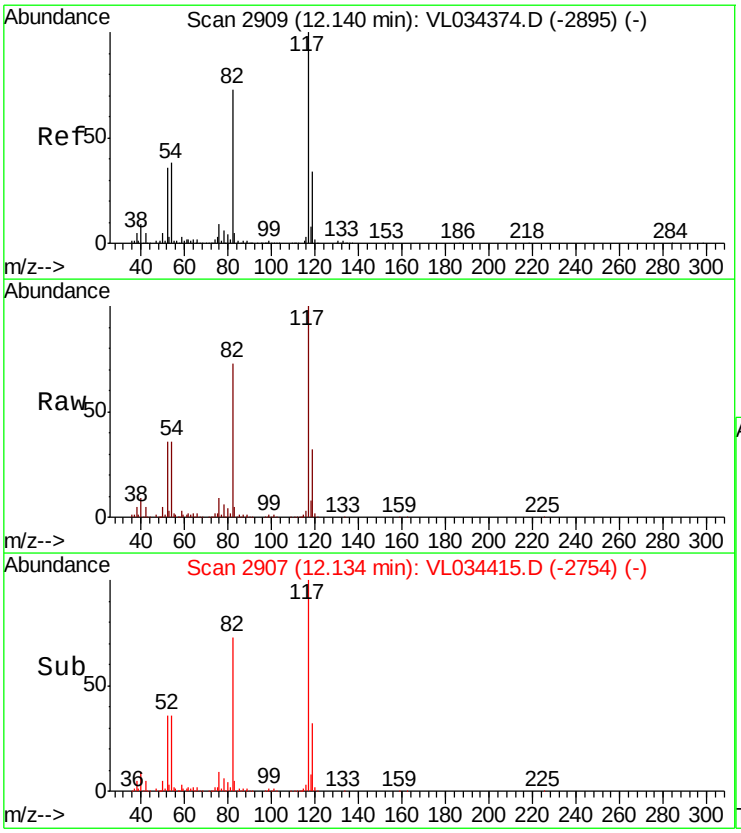

#53
Toluene
Concen: 0.568 ppbv
RT: 9.84 min Scan# 2194
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 91 Resp: 116702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.3 | 47.9 | 71.9 |

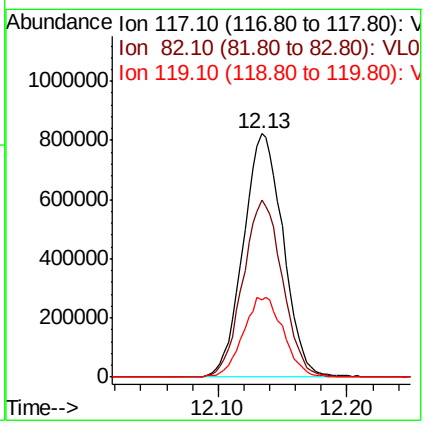


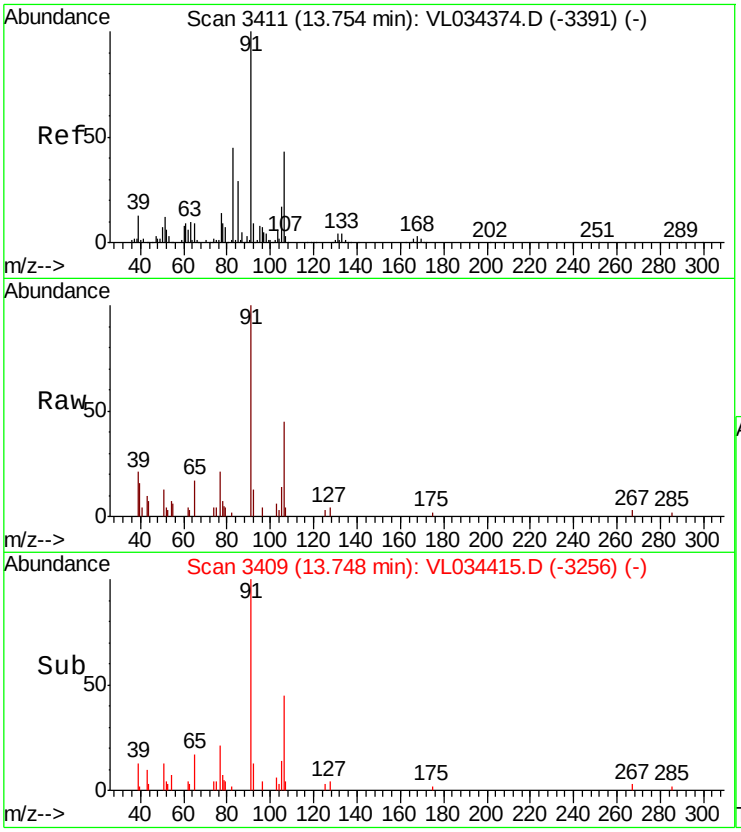




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion:117 Resp: 1766746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 72.6 | 57.5 | 86.3 |
| 119 | 33.4 | 25.4 | 38.2 |



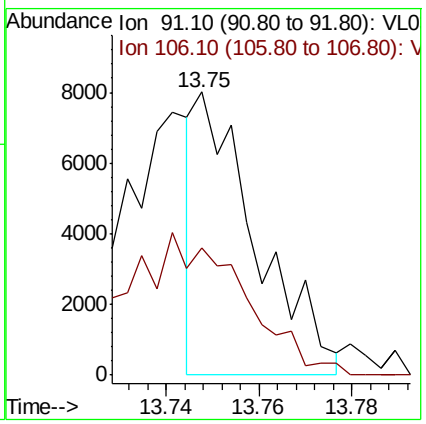


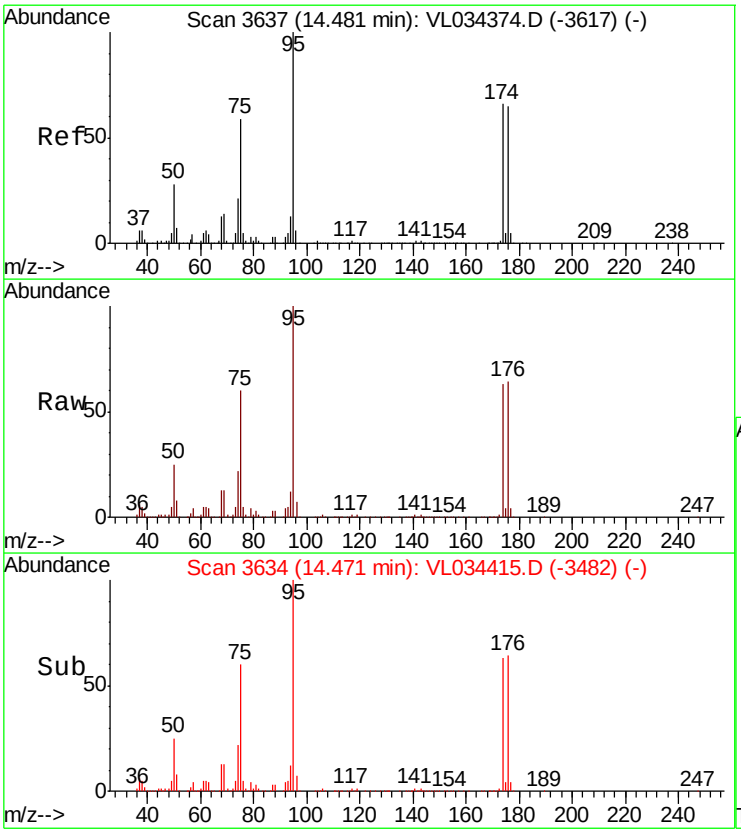

#60
o-Xylene
Concen: 0.031 ppbv
RT: 13.75 min Scan# 3409
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 91 Resp: 7226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 21.3 | 64.0# |

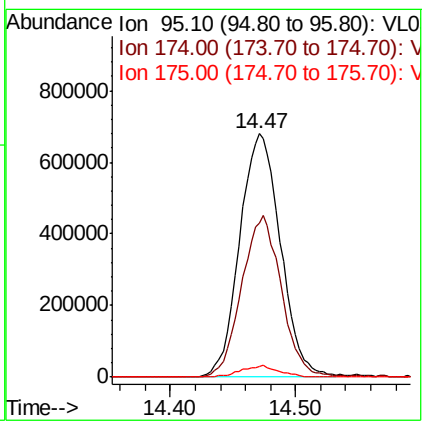


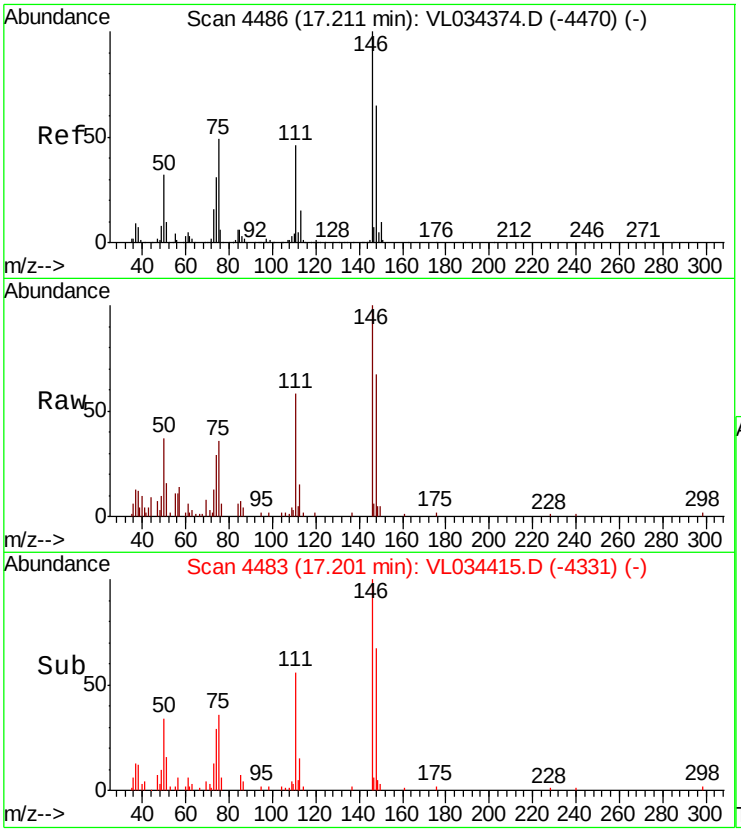




#68
1-Bromo-4-Fluorobenzene
Concen: 10.324 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 95 Resp: 1534420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.7 | 52.2 | 78.2 |
| 175 | 4.4 | 3.8 | 5.8 |






#76
1,4-Dichlorobenzene
Concen: 0.084 ppbv
RT: 17.20 min Scan# 4483
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:146 Resp: 13219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 122.8 | 24.1 | 72.3# |
| 148 | 0.0 | 32.9 | 98.6# |