Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032442.D
Acq On : 31 Aug 2018 15:42
Operator : SY/AP
Sample : J4472-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Quant Time: Sep 01 02:01:15 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.80 | 49 | 1998667 | 10.00 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 7.34 | 114 | 3900949 | 10.00 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 12.29 | 117 | 3713062 | 10.00 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.62 | 95 | 2792917 | 10.13 | ppbv | -0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.30% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.11 | 85 | 21473 | 0.084 | ppbv | 90 |
| 3) Chlorodifluoromethane | 3.04 | 51 | 21692 | 0.120 | ppbv | 97 |
| 4) Chloromethane | 3.21 | 50 | 5676 | 0.052 | ppbv | 90 |
| 9) Propene | 3.06 | 41 | 546902 | 7.494 | ppbv | 99 |
| 11) Trichlorofluoromethane | 4.04 | 101 | 23172 | 0.101 | ppbv | 84 |
| 13) Ethanol | 3.69 | 45 | 123257 | 5.418 | ppbv | 93 |
| 15) Acetone | 3.95 | 43 | 146334 | 0.813 | ppbv | 98 |
| 16) 1,3-Butadiene | 3.37 | 39 | 5624 | 0.066 | ppbv # | 17 |
| 19) Isopropyl Alcohol | 4.08 | 45 | 102647 | 0.869 | ppbv # | 96 |
| 20) Methylene Chloride | 4.45 | 84 | 85992 | 1.253 | ppbv | 97 |
| 25) Ethyl Acetate | 5.82 | 43 | 99081 | 0.233 | ppbv # | 82 |
| 26) Hexane | 5.82 | 57 | 125729 | 0.661 | ppbv # | 44 |
| 34) 2-Butanone | 5.39 | 43 | 42935 | 0.166 | ppbv | 99 |
| 36) Benzene | 7.05 | 78 | 35929 | 0.108 | ppbv # | 93 |
| 39) 1,2-Dichloropropane | 7.33 | 63 | 1070536 | 7.537 | ppbv # | 25 |
| 53) Toluene | 9.99 | 91 | 27363 | 0.079 | ppbv | 100 |
| 75) 1,3-Dichlorobenzene | 17.35 | 146 | 571281 | 2.069 | ppbv | 98 |
| 76) 1,4-Dichlorobenzene | 17.35 | 146 | 571281 | 2.230 | ppbv | 99 |

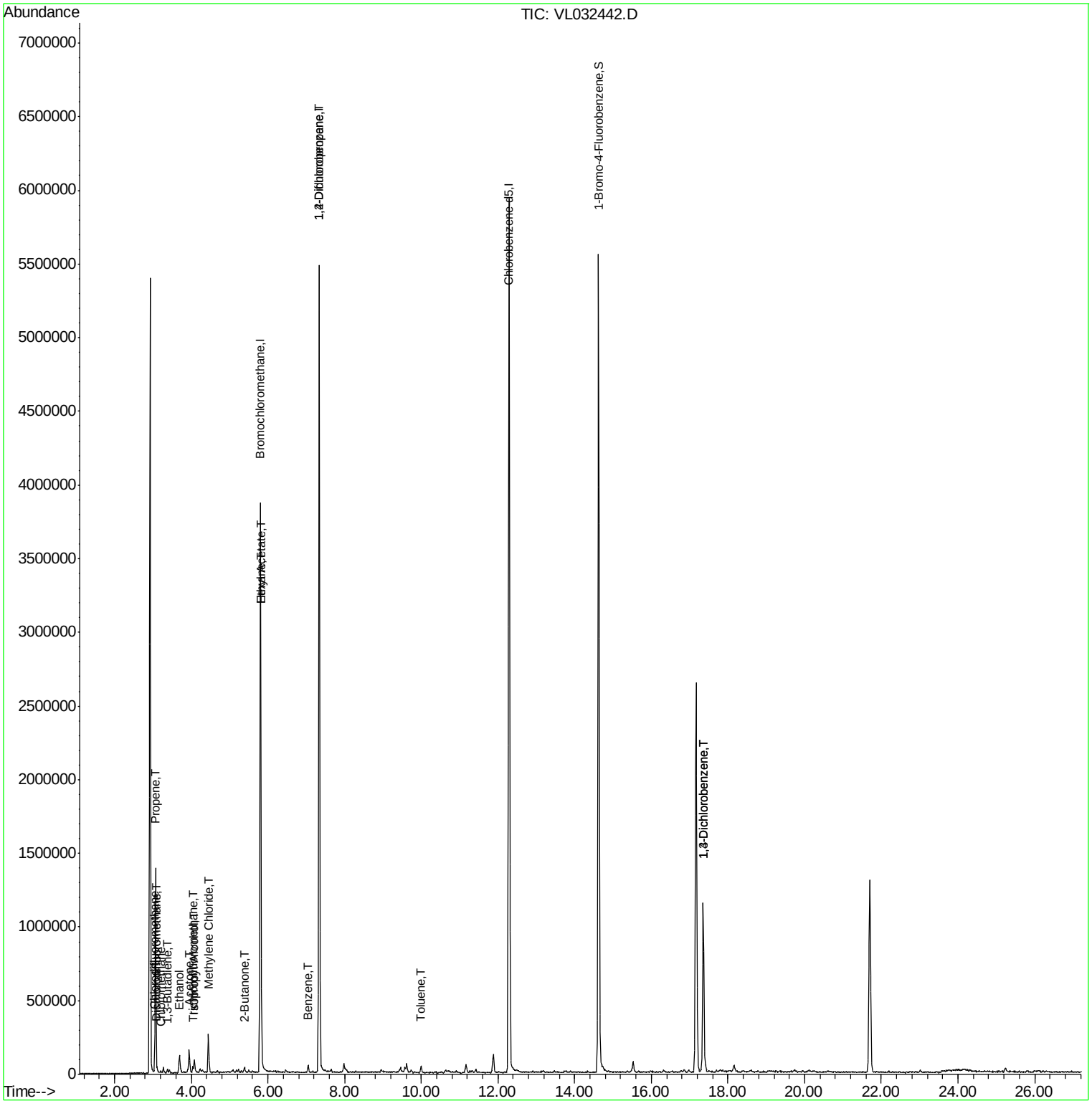
(#) = qualifier out of range (m) = manual integration (+) = signals summed

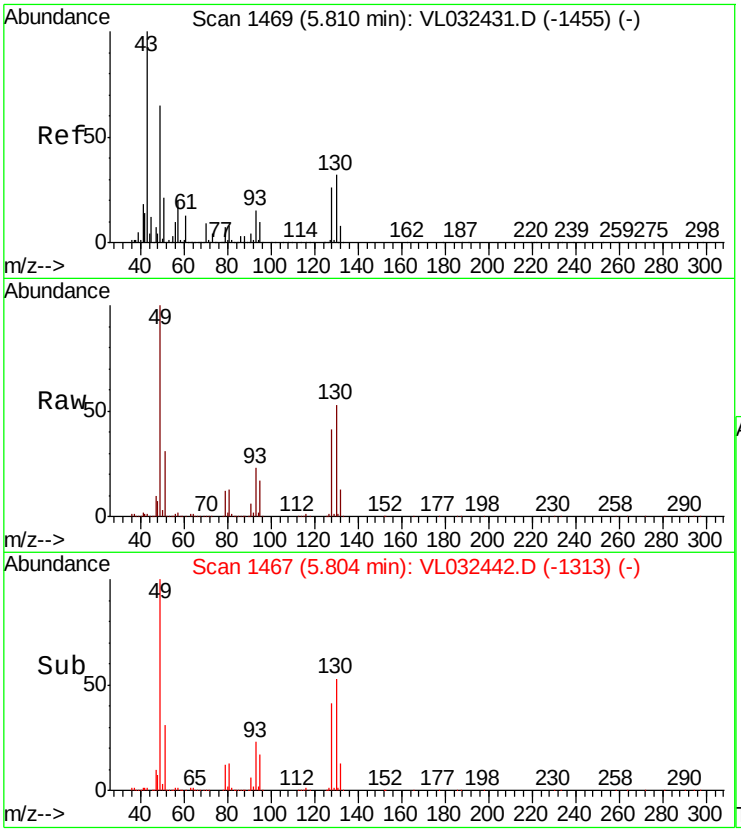
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032442.D
Acq On : 31 Aug 2018 15:42
Operator : SY/AP
Sample : J4472-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Quant Time: Sep 01 02:01:15 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration



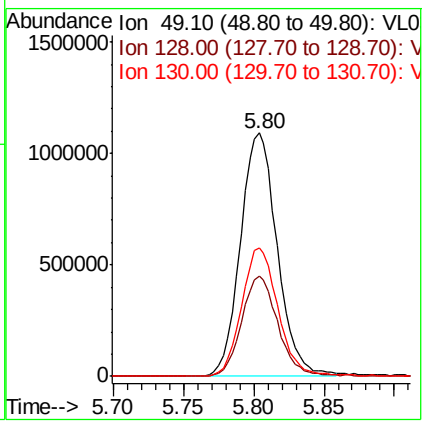


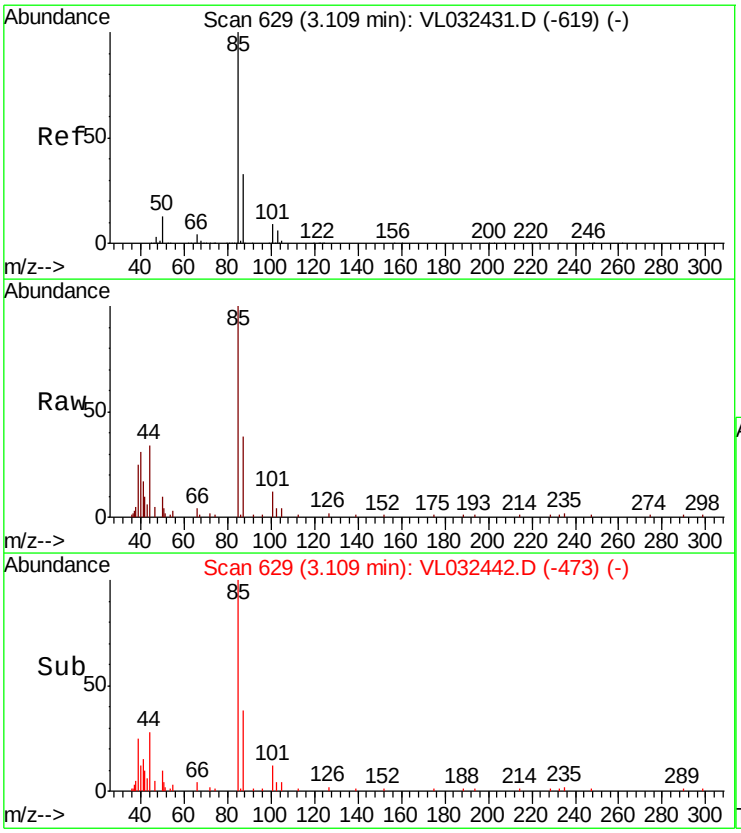

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.80 min Scan# 1467
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-1DL

Tgt Ion: 49 Resp: 1998667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 41.1 | 20.7 | 62.1 |
| 130 | 52.7 | 26.6 | 79.7 |

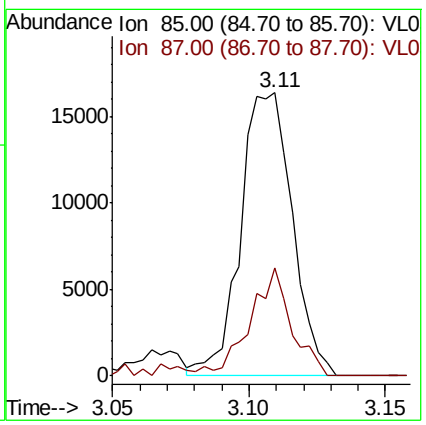


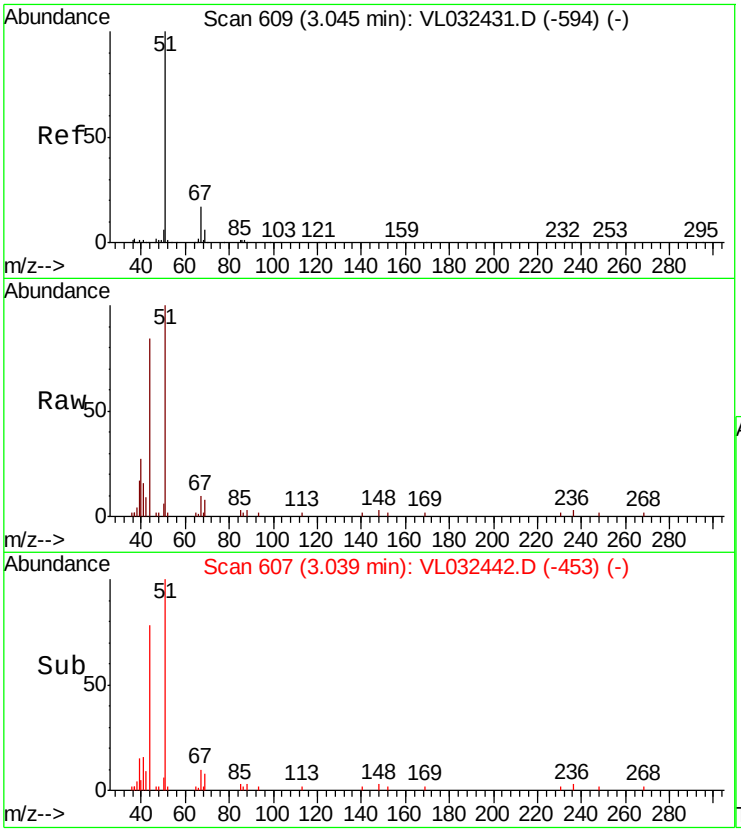




#2
Dichlorodifluoromethane
Concen: 0.084 ppbv
RT: 3.11 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 85 Resp: 21473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.3 | 26.2 | 39.4 |



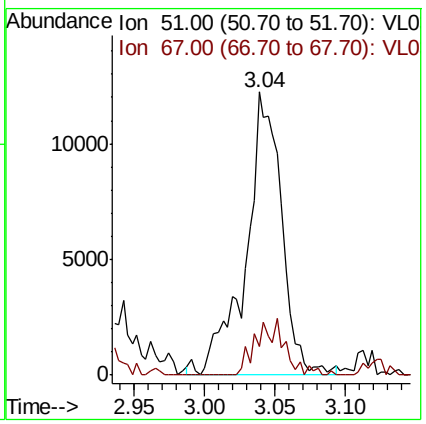


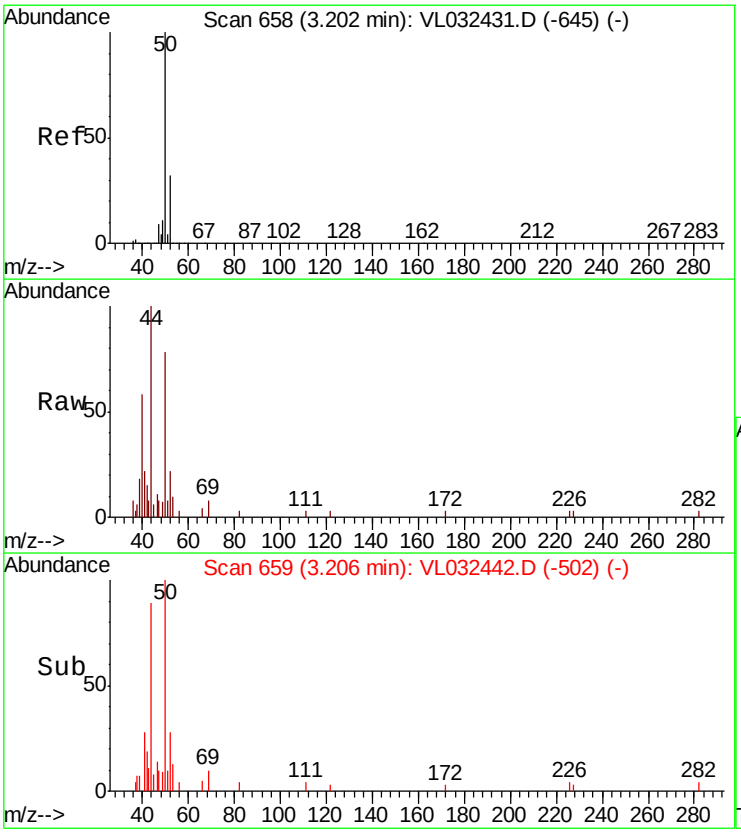

#3
Chlorodifluoromethane
Concen: 0.120 ppbv
RT: 3.04 min Scan# 607
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion: 51 Resp: 21692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 16.1 | 13.8 | 20.8 |

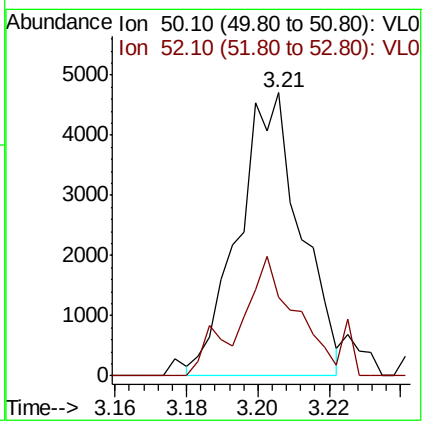


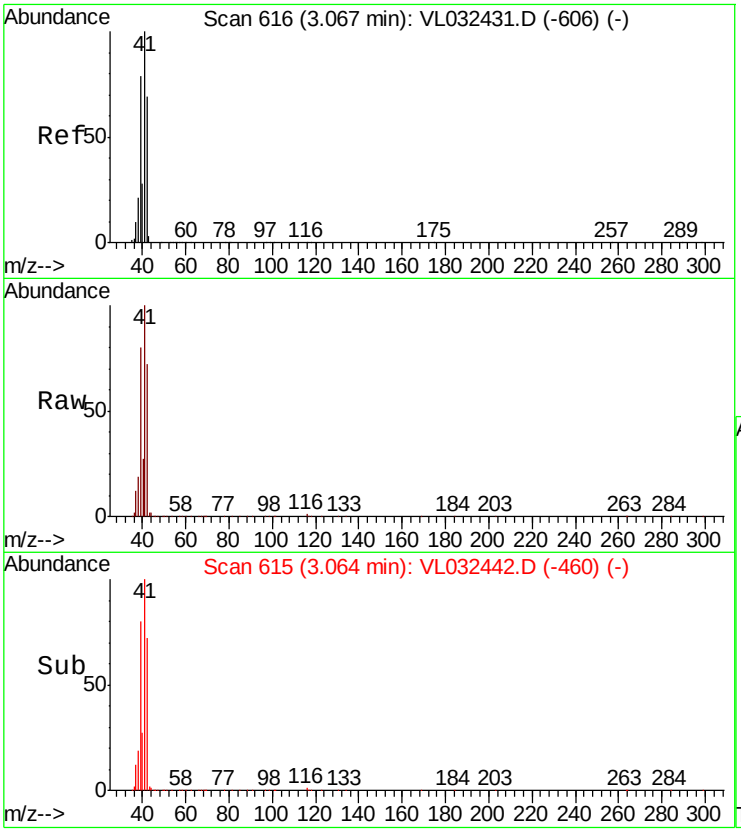




#4
Chloromethane
Concen: 0.052 ppbv
RT: 3.21 min Scan# 659
Delta R.T. 0.00 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 50 Resp: 5676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 26.2 | 25.6 | 38.4 |



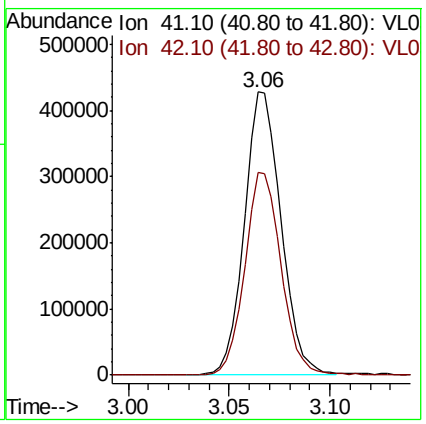


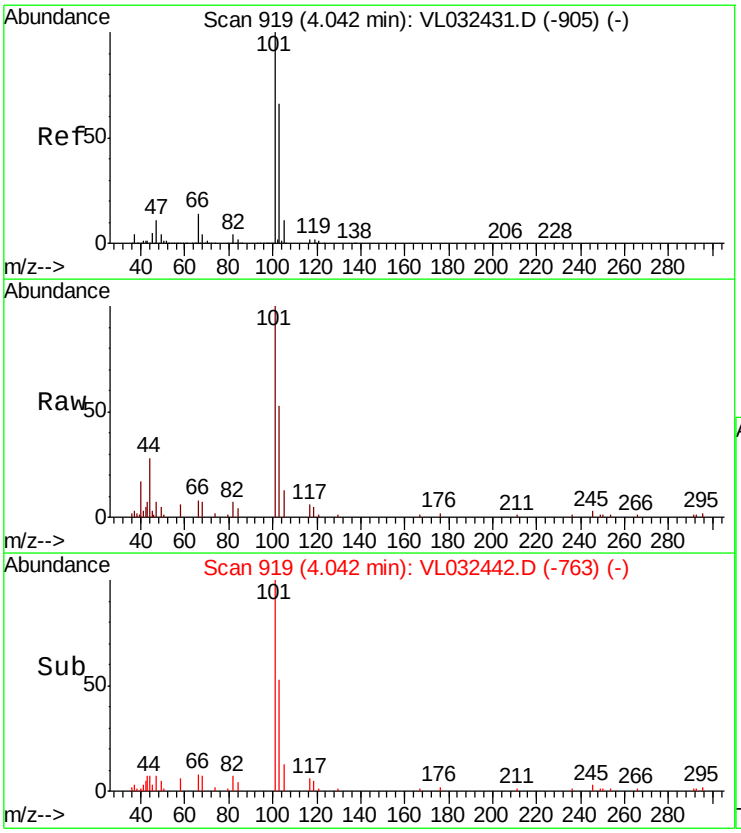

#9
Propene
Concen: 7.494 ppbv
RT: 3.06 min Scan# 615
Delta R.T. -0.00 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-1DL

Tgt Ion: 41 Resp: 546902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 71.2 | 56.6 | 84.8 |

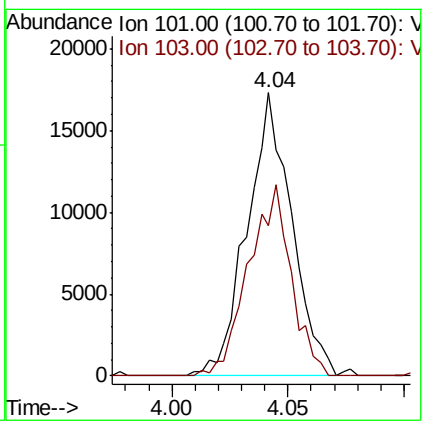


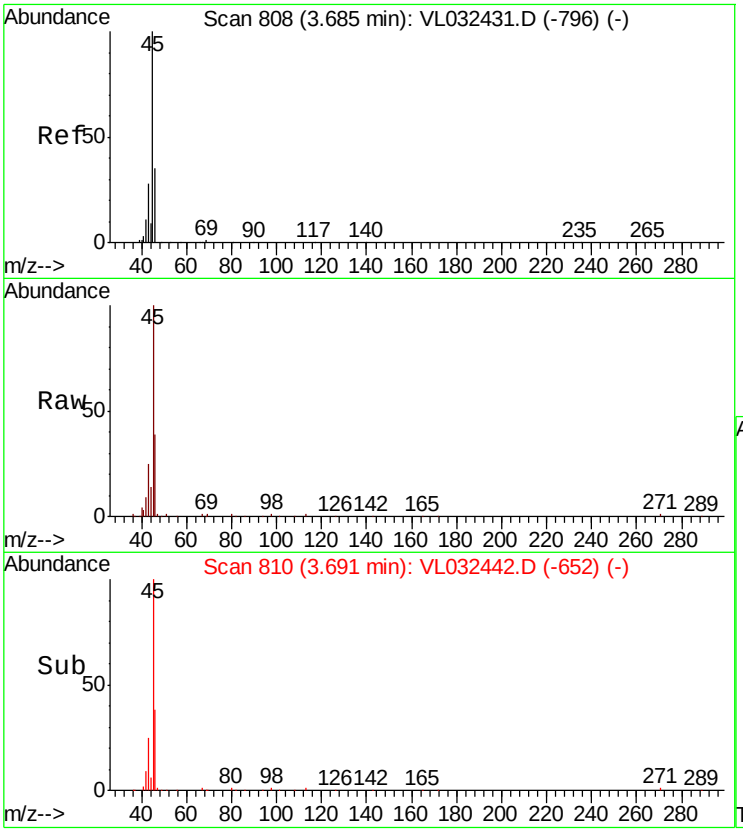




#11
Trichlorofluoromethane
Concen: 0.101 ppbv
RT: 4.04 min Scan# 919
Delta R.T. 0.00 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion:101 Resp: 23172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 53.0 | 52.8 | 79.2 |



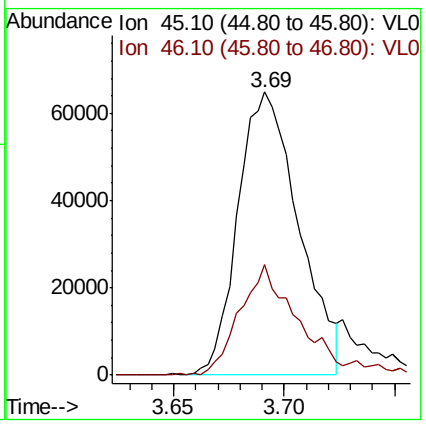


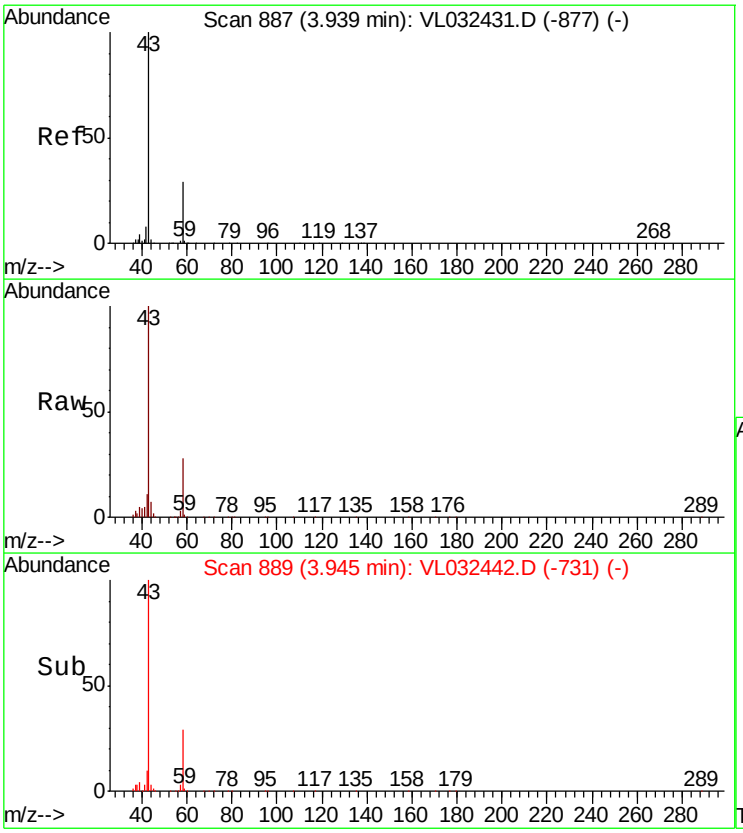

#13
Ethanol
Concen: 5.418 ppbv
RT: 3.69 min Scan# 810
Delta R.T. 0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion: 45 Resp: 123257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.6 | 14.2 | 56.8 |

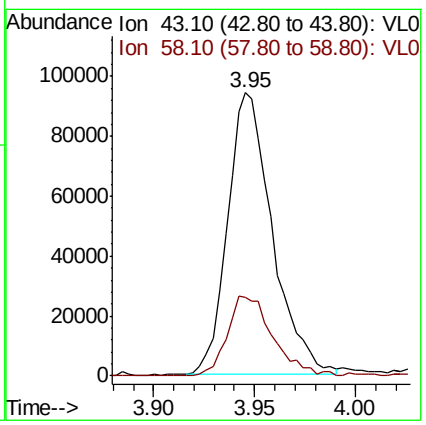


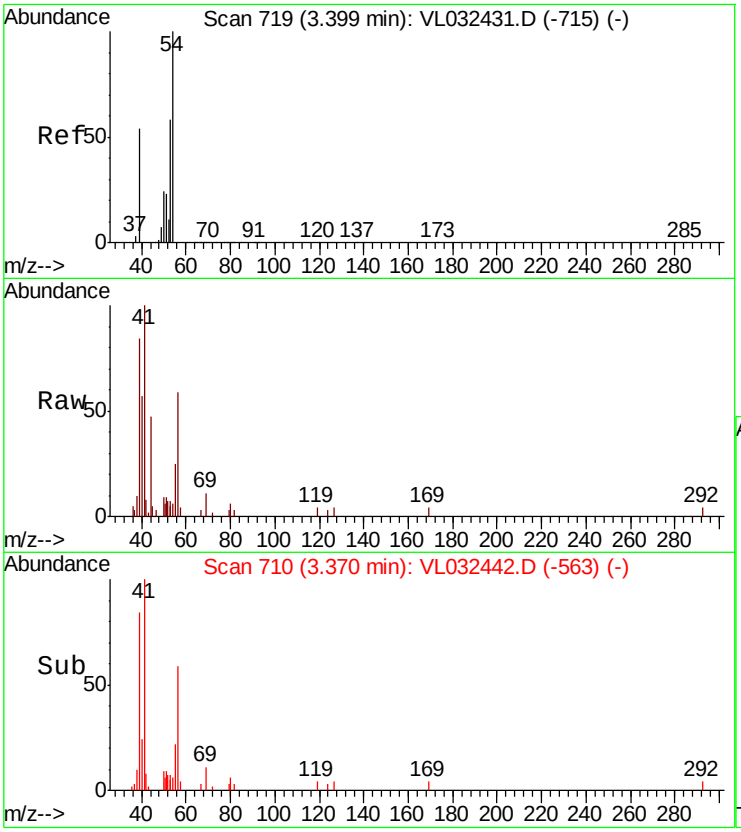




#15
Acetone
Concen: 0.813 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 43 Resp: 146334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.3 | 22.6 | 33.8 |



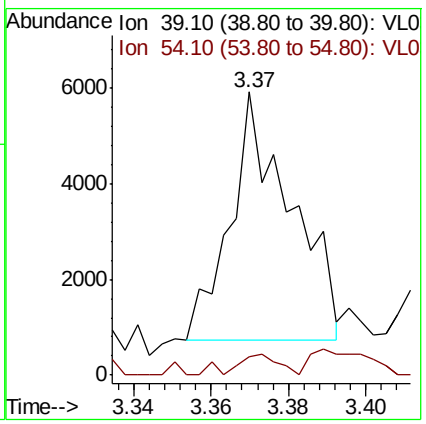


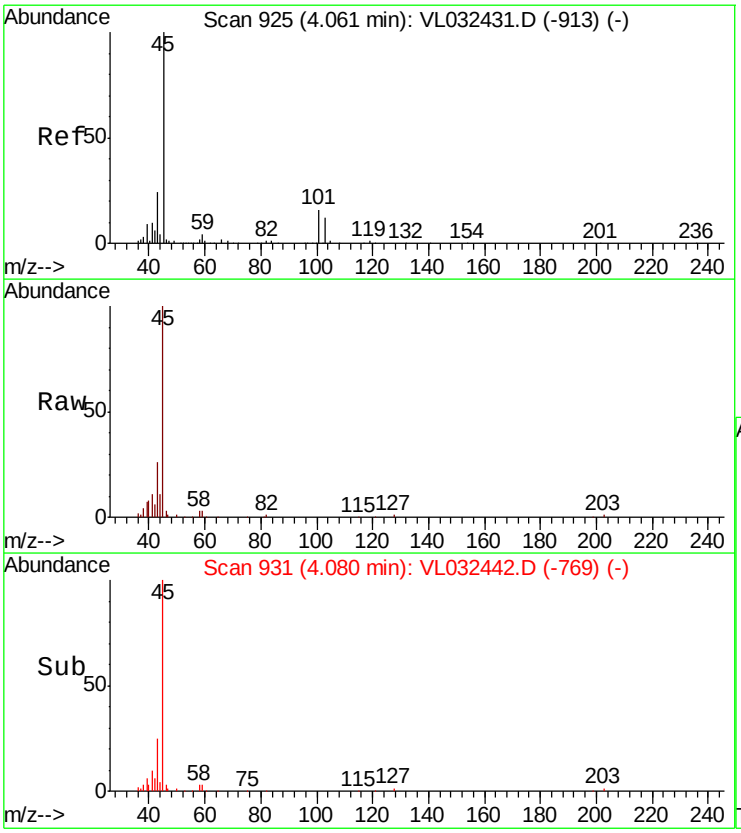

#16
1,3-Butadiene
Concen: 0.066 ppbv
RT: 3.37 min Scan# 710
Delta R.T. -0.03 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-1DL

Tgt Ion: 39 Resp: 5624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 17.5 | 80.8 | 121.2# |

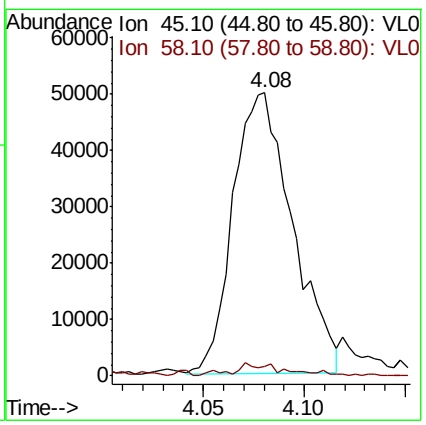


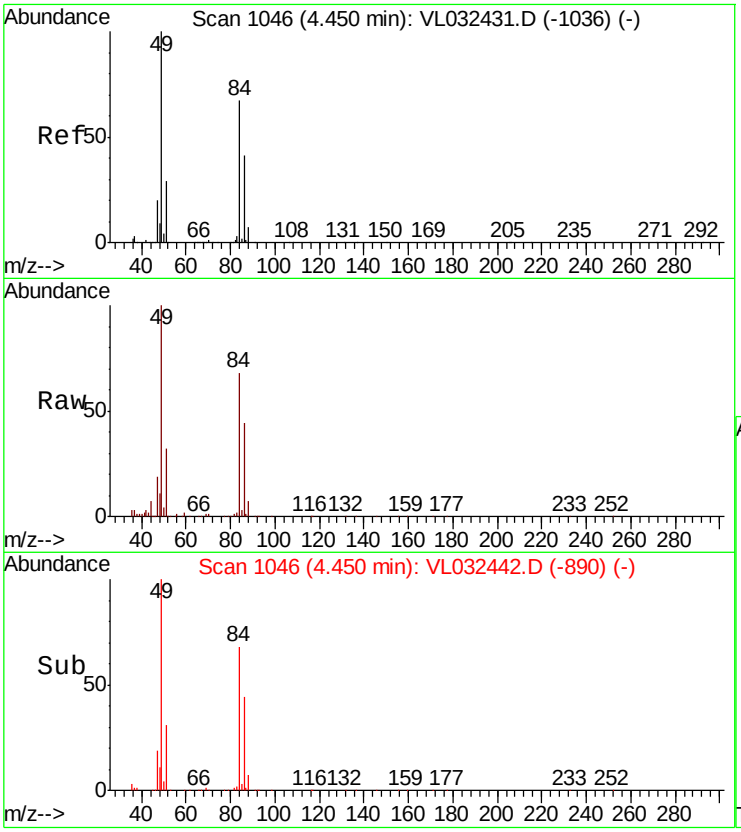




#19
Isopropyl Alcohol
Concen: 0.869 ppbv
RT: 4.08 min Scan# 931
Delta R.T. 0.02 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 45 Resp: 102647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 4.0 | 2.0 | 3.0# |



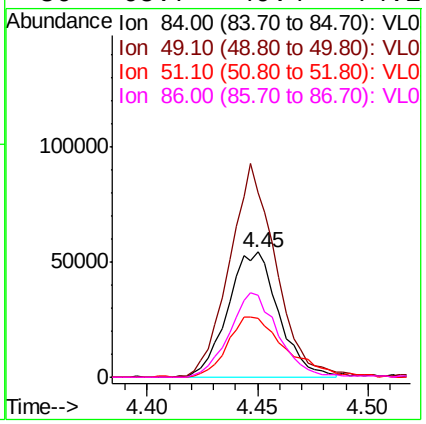


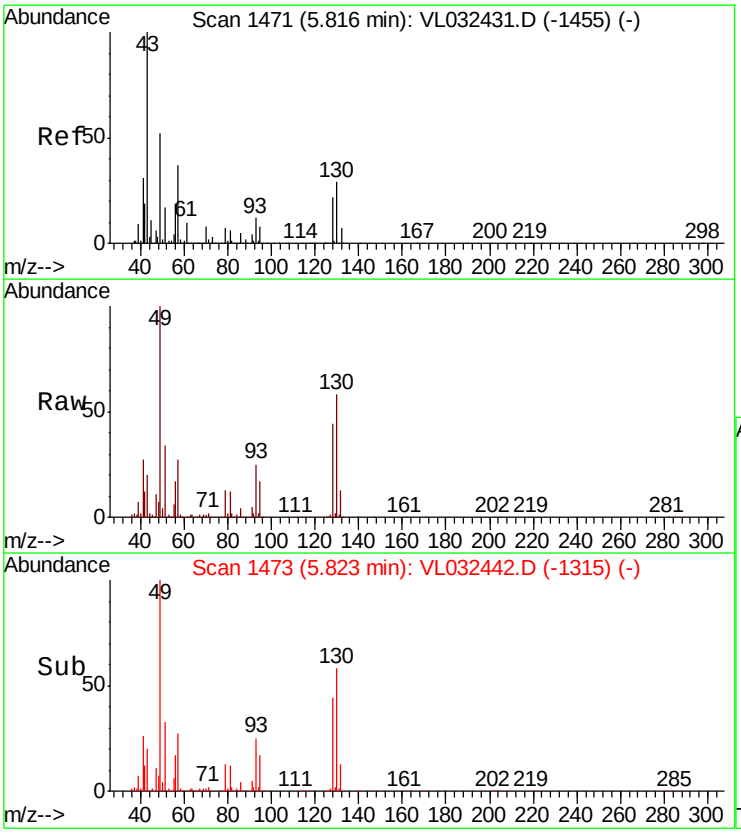

#20
Methylene Chloride
Concen: 1.253 ppbv
RT: 4.45 min Scan# 1046
Delta R.T. 0.00 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion: 84 Resp: 85992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 146.6 | 119.1 | 178.7 |
| 51 | 47.6 | 35.2 | 52.8 |
| 86 | 65.7 | 49.4 | 74.2 |

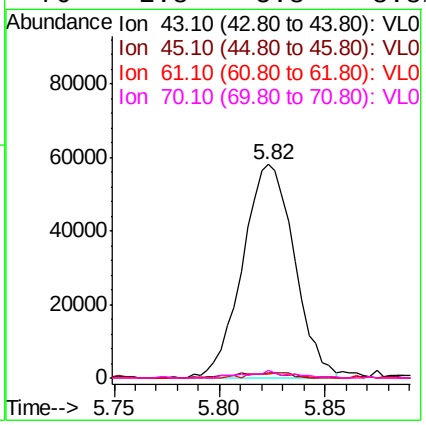


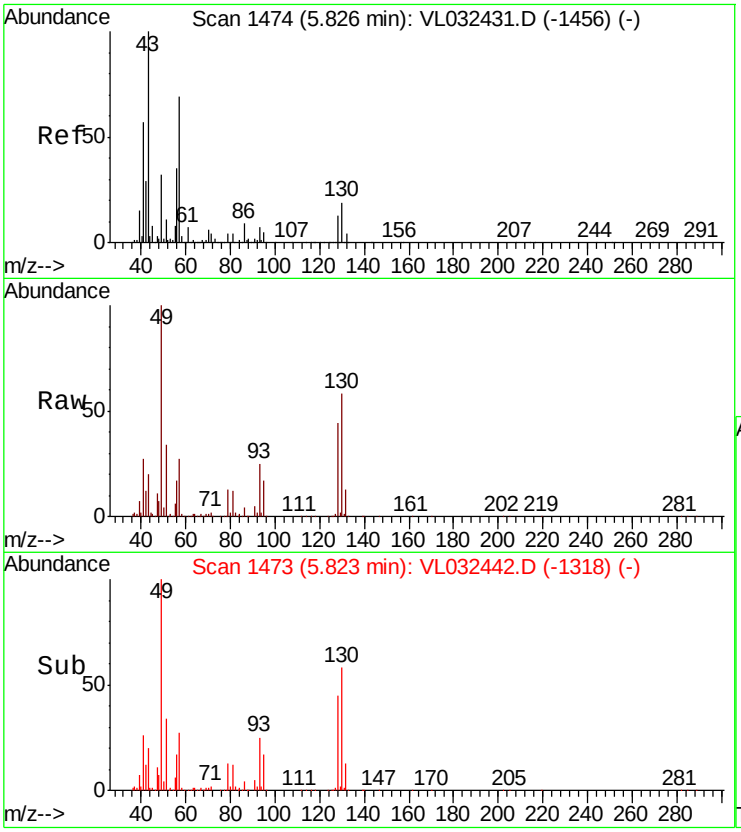




#25
Ethyl Acetate
Concen: 0.233 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. 0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 43 Resp: 99081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 2.9 | 8.0 | 12.0# |
| 61 | 1.9 | 7.6 | 11.4# |
| 70 | 2.8 | 5.8 | 8.8# |



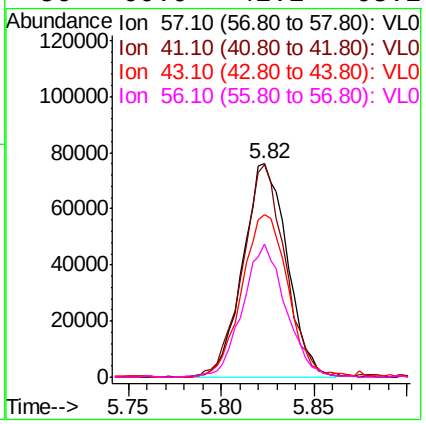


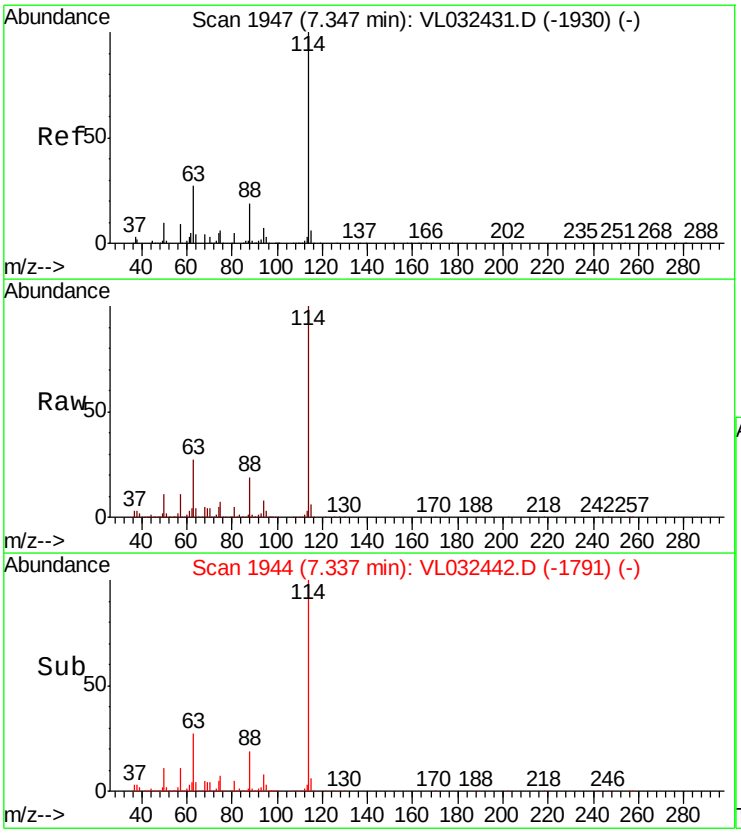

#26
Hexane
Concen: 0.661 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion: 57 Resp: 125729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.8 | 69.0 | 103.4 |
| 43 | 80.7 | 172.1 | 258.1# |
| 56 | 60.9 | 42.2 | 63.2 |

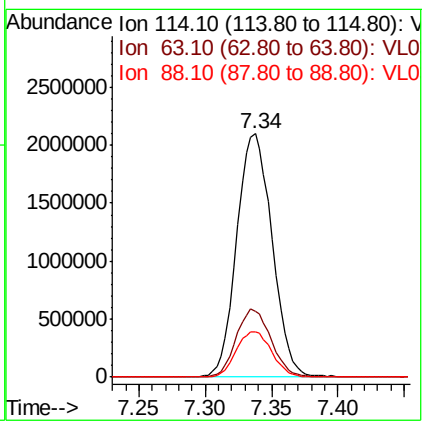


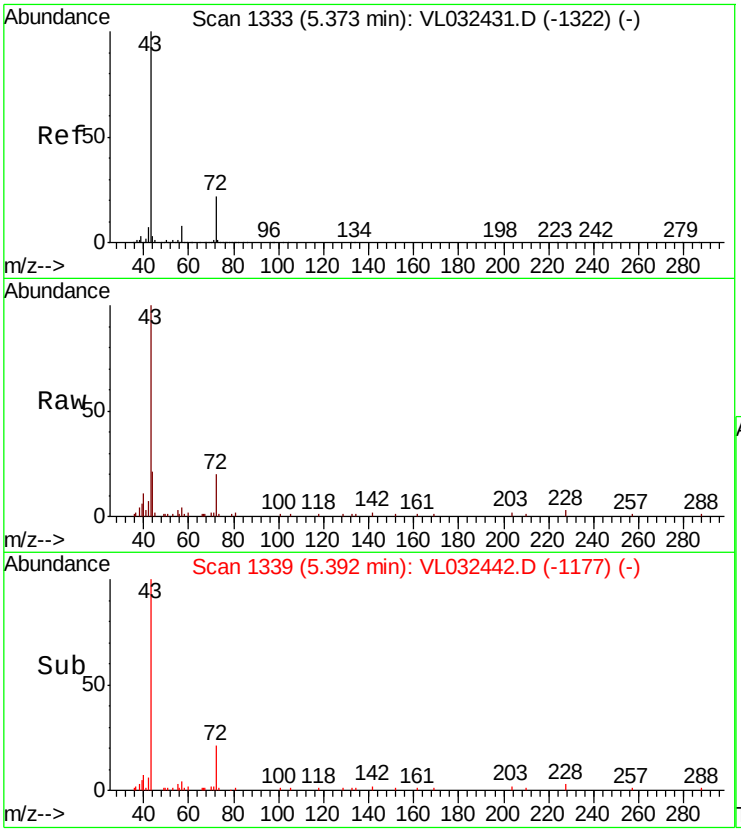




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion:114 Resp: 3900949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.5 | 22.2 | 33.4 |
| 88 | 18.9 | 15.0 | 22.4 |



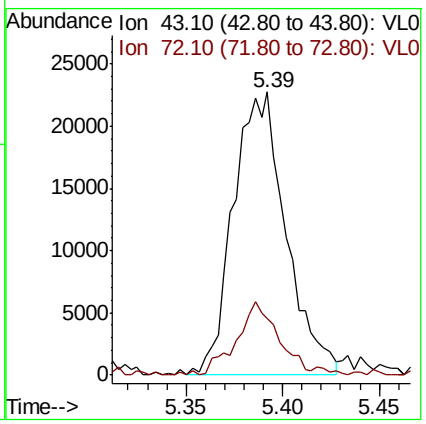


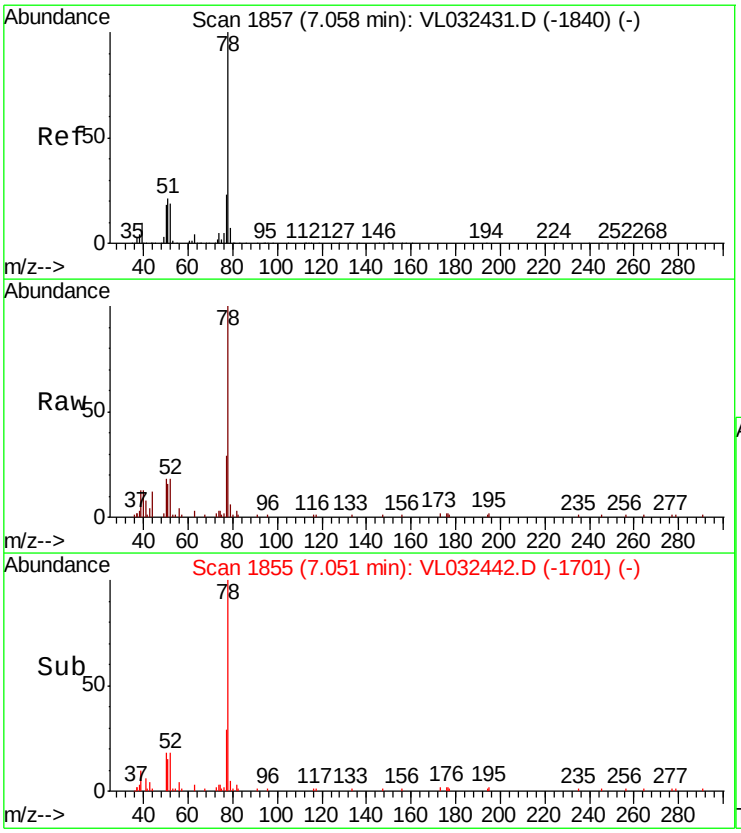

#34
2-Butanone
Concen: 0.166 ppbv
RT: 5.39 min Scan# 1339
Delta R.T. 0.02 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion: 43 Resp: 42935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.8 | 17.8 | 26.6 |

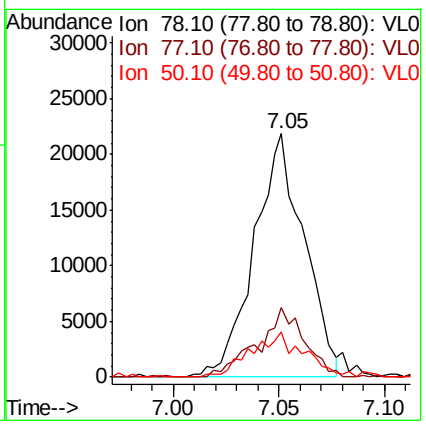


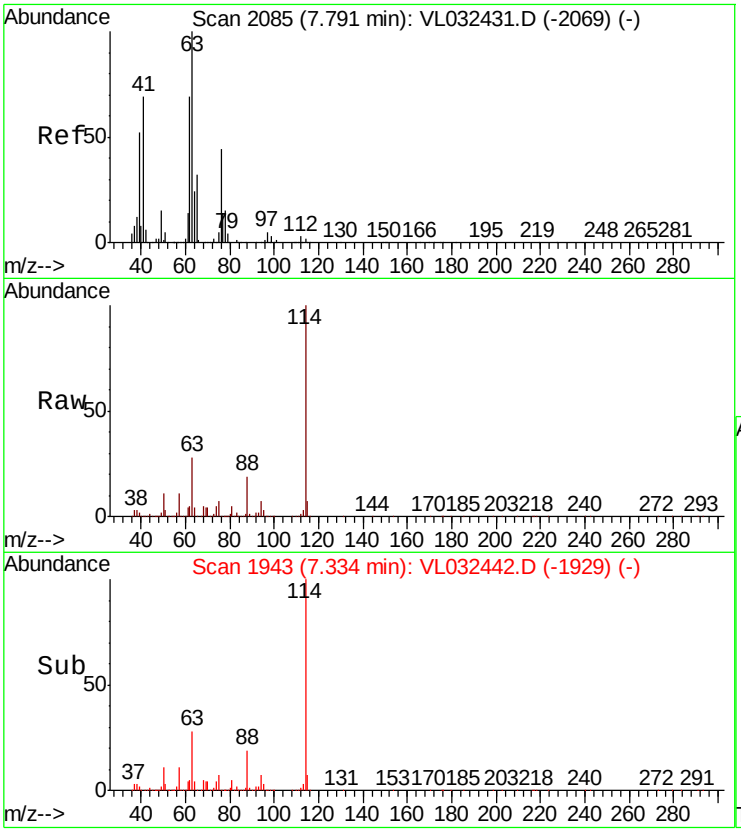




#36
Benzene
Concen: 0.108 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 78 Resp: 35929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 28.7 | 18.4 | 27.6# |
| 50 | 18.5 | 14.4 | 21.6 |



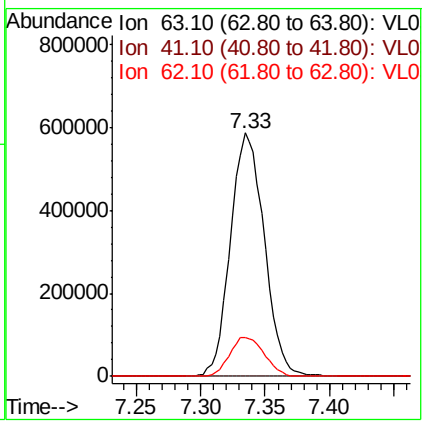


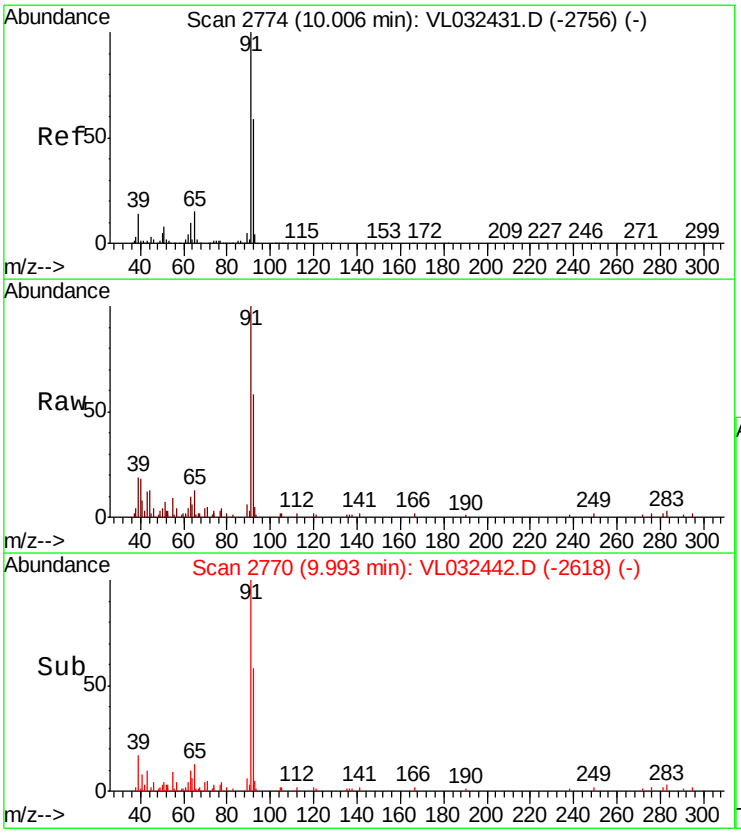

#39
1,2-Dichloropropane
Concen: 7.537 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. -0.46 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion: 63 Resp: 1070536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 55.4 | 83.0# |
| 62 | 16.1 | 55.4 | 83.0# |

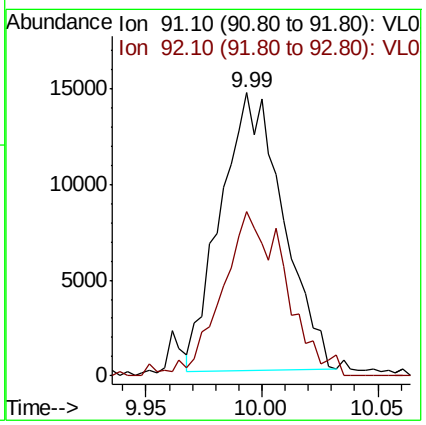


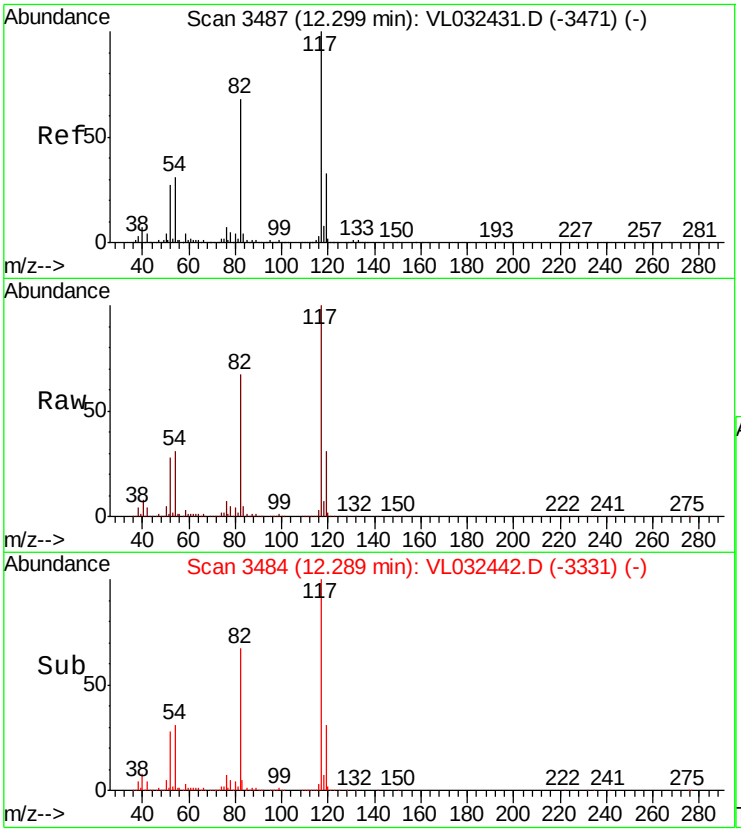




#53
Toluene
Concen: 0.079 ppbv
RT: 9.99 min Scan# 2770
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 91 Resp: 27363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.0 | 48.1 | 72.1 |



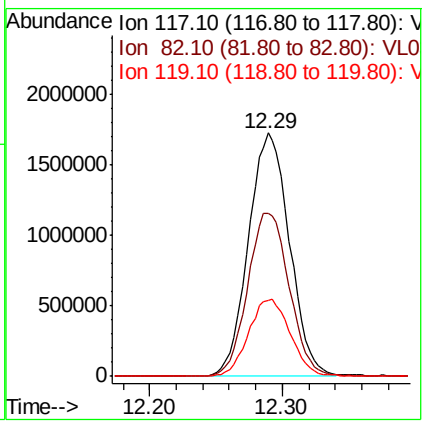


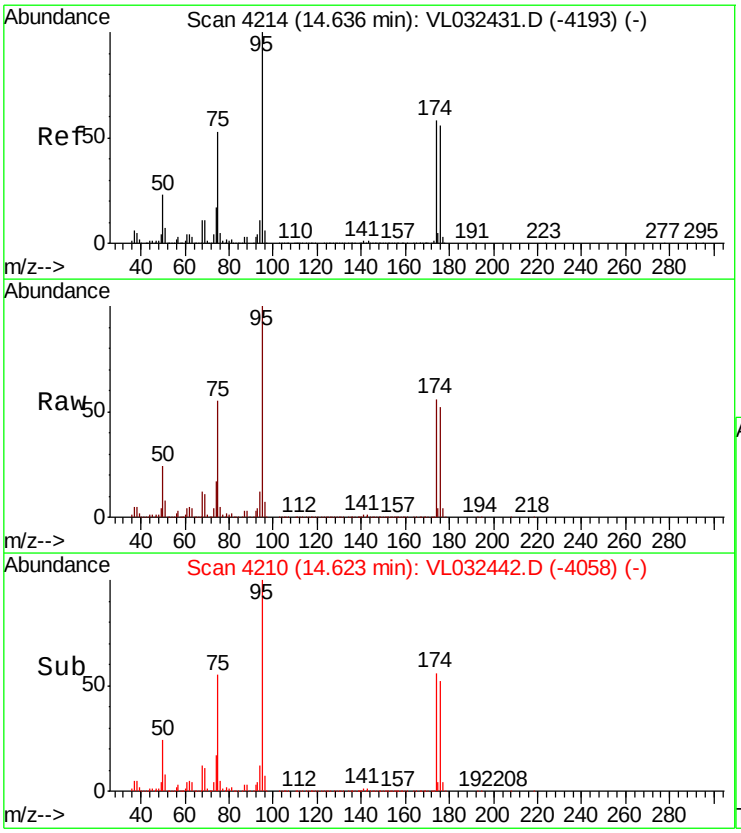

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :** MSVOA_L
**ClientSampleId :** SS-1DL

Tgt Ion:117 Resp: 3713062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.8 | 53.0 | 79.6 |
| 119 | 32.5 | 45.9 | 68.9# |

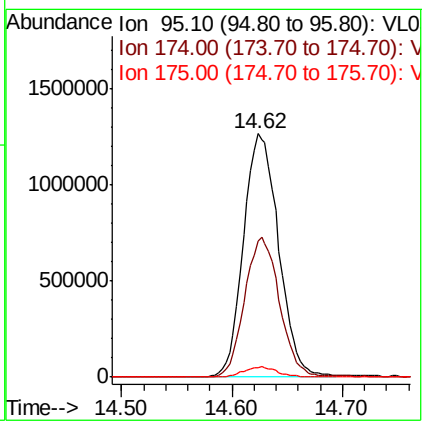


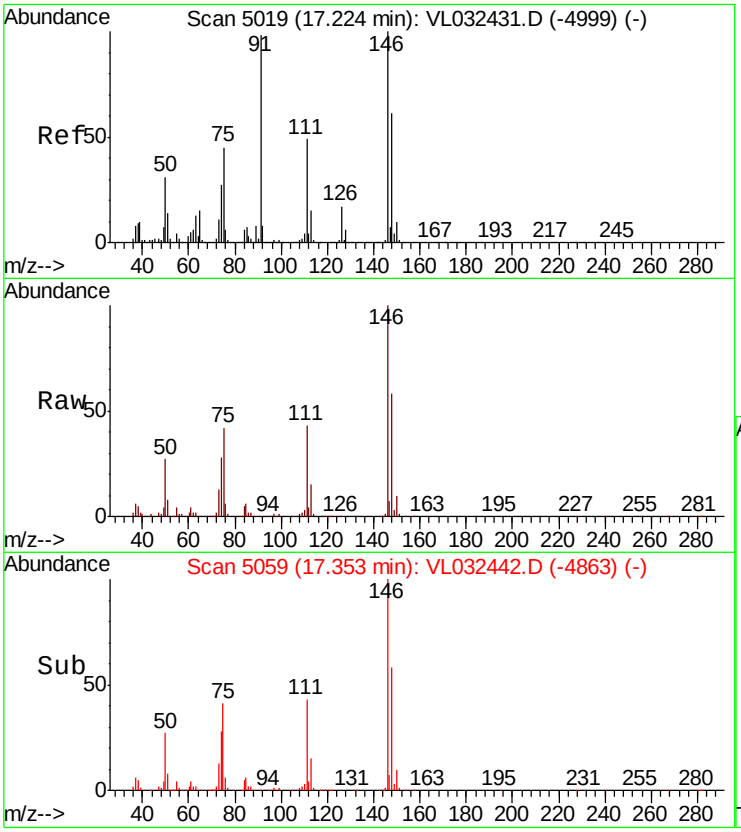




#68
1-Bromo-4-Fluorobenzene
Concen: 10.131 ppbv
RT: 14.62 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion: 95 Resp: 2792917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 57.8 | 46.3 | 69.5 |
| 175 | 4.1 | 3.4 | 5.0 |



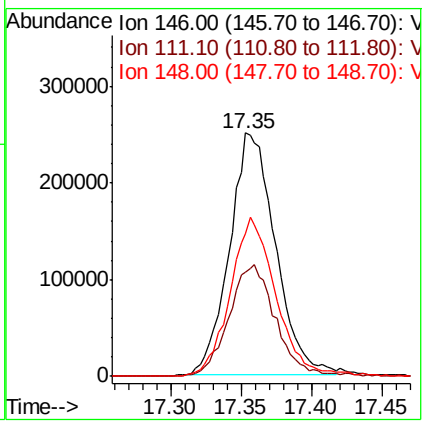


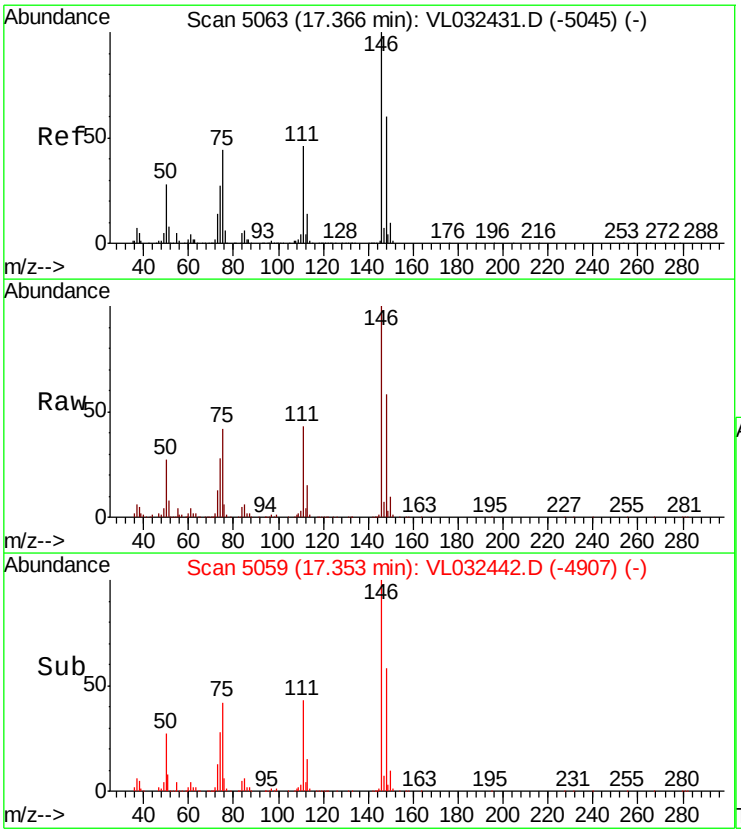

#75
1,3-Dichlorobenzene
Concen: 2.069 ppbv
RT: 17.35 min Scan# 5059
Delta R.T. 0.13 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-1DL

Tgt Ion:146 Resp: 571281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 24.5 | 73.5 |
| 148 | 65.7 | 32.0 | 96.2 |




#76
1,4-Dichlorobenzene
Concen: 2.230 ppbv
RT: 17.35 min Scan# 5059
Delta R.T. -0.01 min
Lab File: VL032442.D
Acq: 31 Aug 2018 15:42

Tgt Ion:146 Resp: 571281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.1 | 23.4 | 70.2 |
| 148 | 65.7 | 32.0 | 96.2 |