Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032919\
Data File : VL033508.D
Acq On : 29 Mar 2019 18:52
Operator : SY/AP
Sample : K2042-19DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Mar 30 01:11:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.76 | 49 | 742310 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.29 | 114 | 1796493 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.24 | 117 | 1800401 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.57 | 95 | 1426248 | 10.10 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.08 | 85 | 8835 | 0.08 | ppbv | # | 83 |
| 3) Chlorodifluoromethane | 3.02 | 51 | 6522 | 0.08 | ppbv | # | 81 |
| 4) Chloromethane | 3.17 | 50 | 1751 | 0.04 | ppbv | # | 79 |
| 9) Propene | 3.05 | 41 | 4421 | 0.12 | ppbv | | 90 |
| 13) Ethanol | 3.66 | 45 | 17692 | 1.91 | ppbv | | 74 |
| 15) Acetone | 3.92 | 43 | 33871 | 0.38 | ppbv | | 98 |
| 19) Isopropyl Alcohol | 4.05 | 45 | 1927 | 0.03 | ppbv | # | 1 |
| 20) Methylene Chloride | 4.40 | 84 | 6940 | 0.18 | ppbv | | 95 |
| 26) Hexane | 5.78 | 57 | 6965 | 0.09 | ppbv | # | 37 |
| 30) Cyclohexane | 7.27 | 84 | 2911 | 0.05 | ppbv | # | 1 |
| 39) 1,2-Dichloropropane | 7.29 | 63 | 483284 | 8.18 | ppbv | # | 24 |

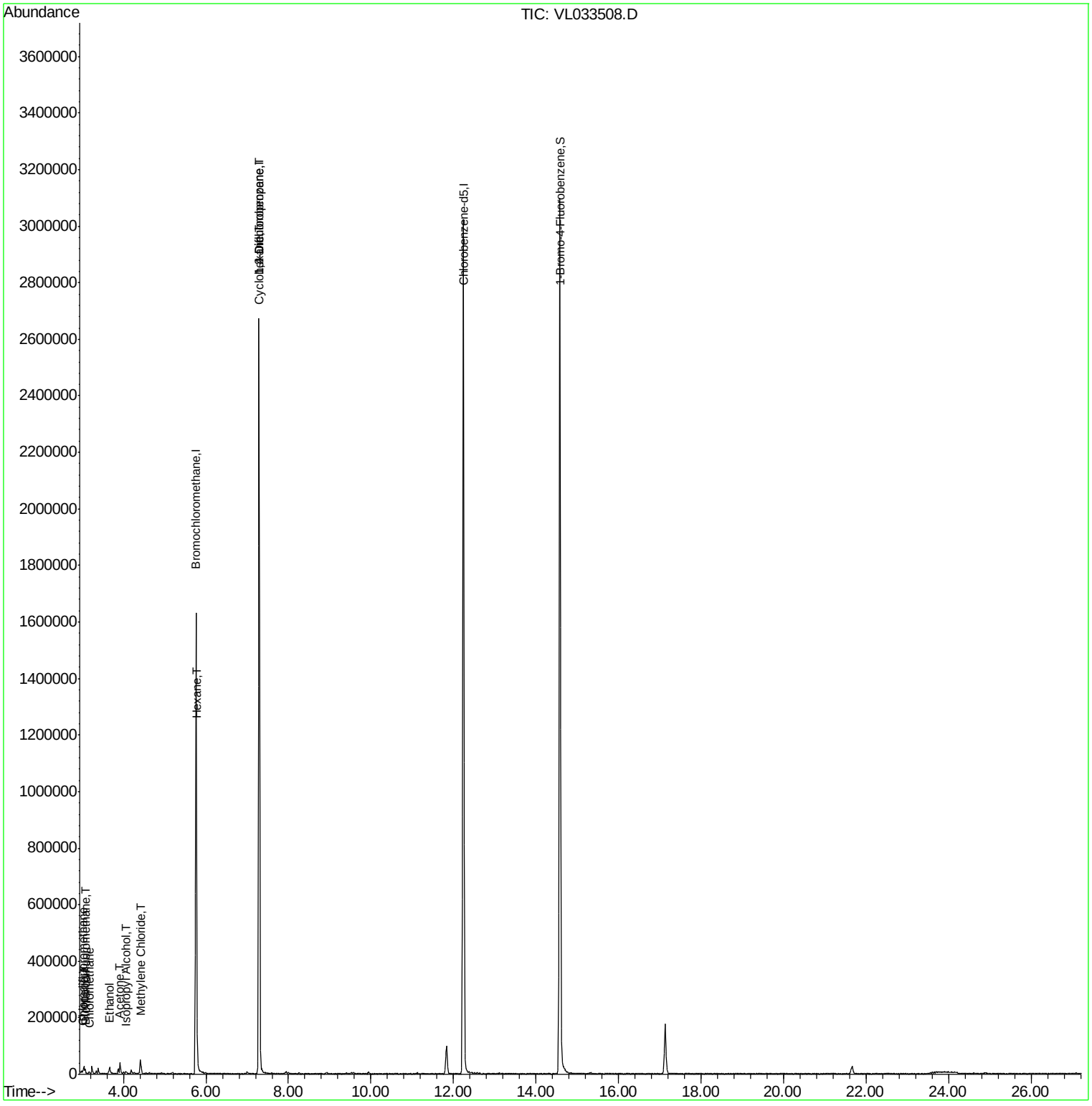
(#) = qualifier out of range (m) = manual integration (+) = signals summed

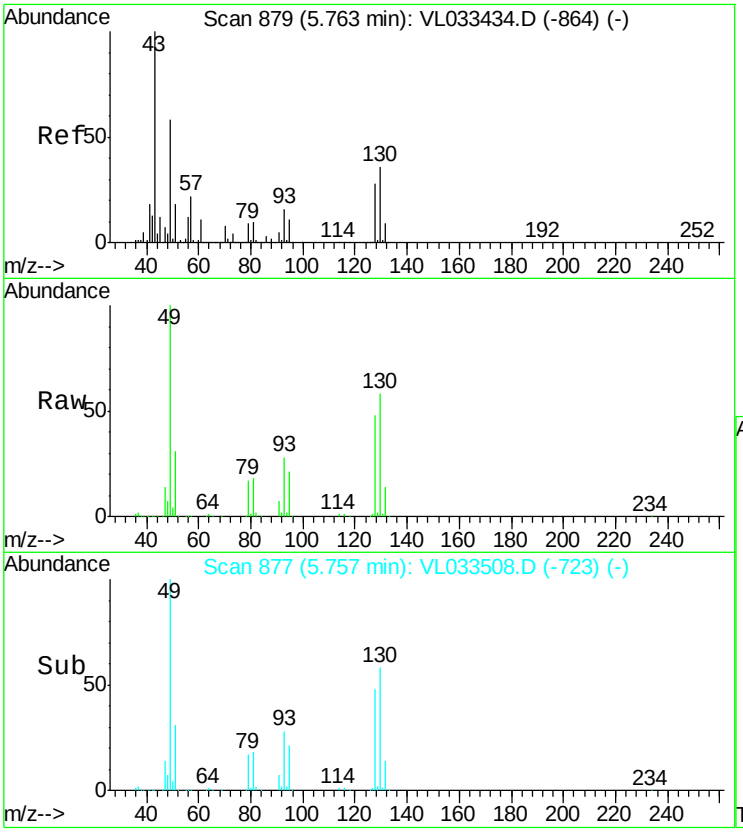
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032919\
Data File : VL033508.D
Acq On : 29 Mar 2019 18:52
Operator : SY/AP
Sample : K2042-19DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Mar 30 01:11:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration



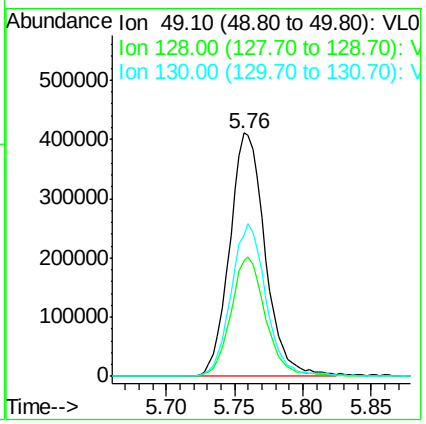


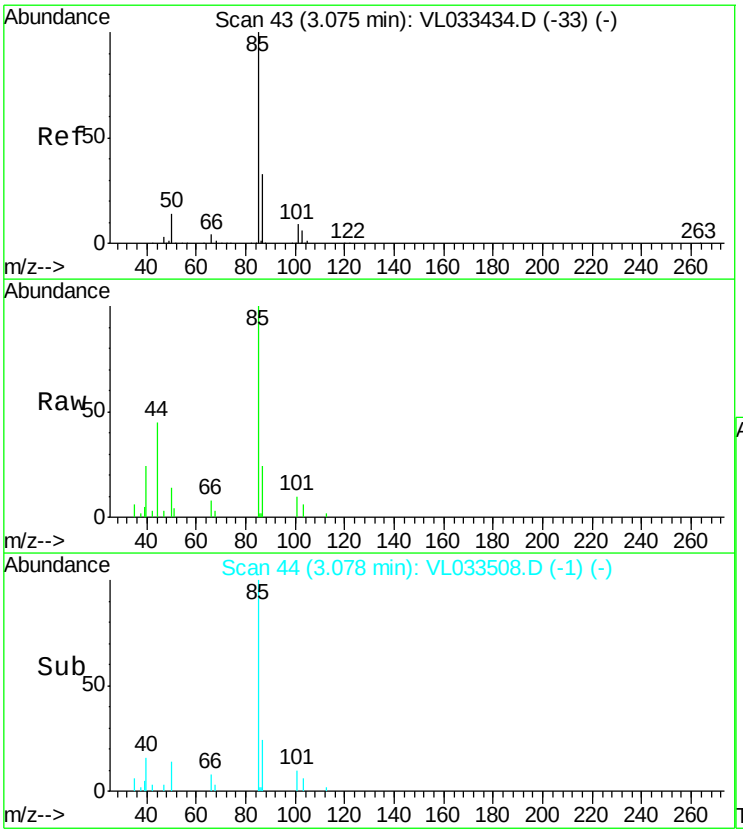

#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

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

Tgt Ion: 49 Resp: 742310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 47.9 | 24.0 | 72.0 |
| 130 | 62.0 | 31.2 | 93.6 |

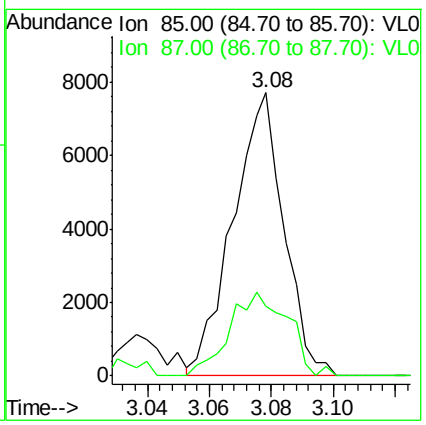


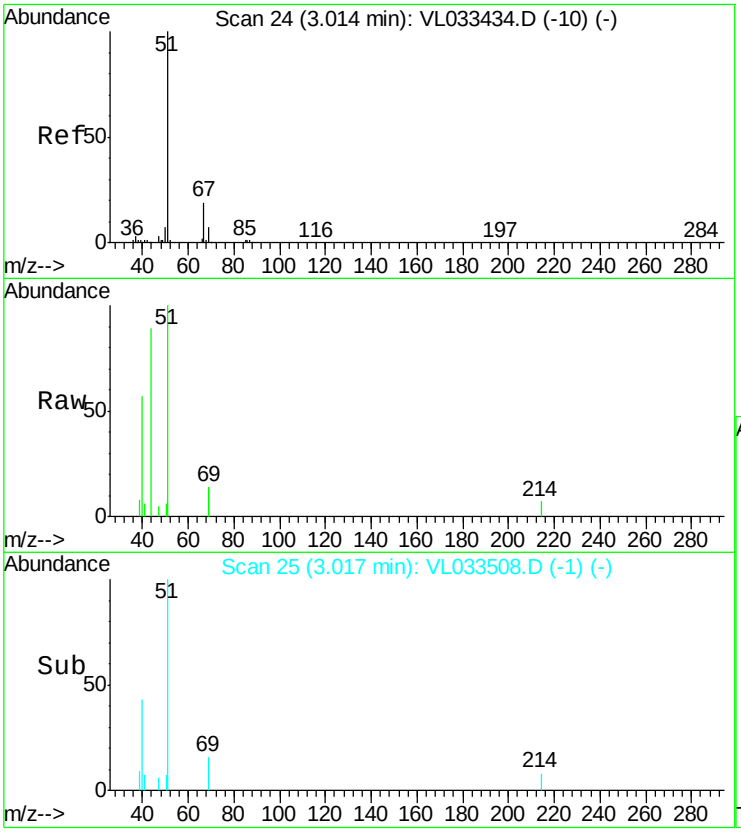




#2
Dichlorodifluoromethane
Concen: 0.08 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 85 Resp: 8835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 23.9 | 26.7 | 40.1# |

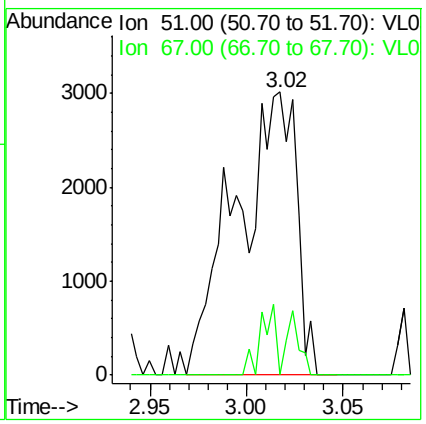




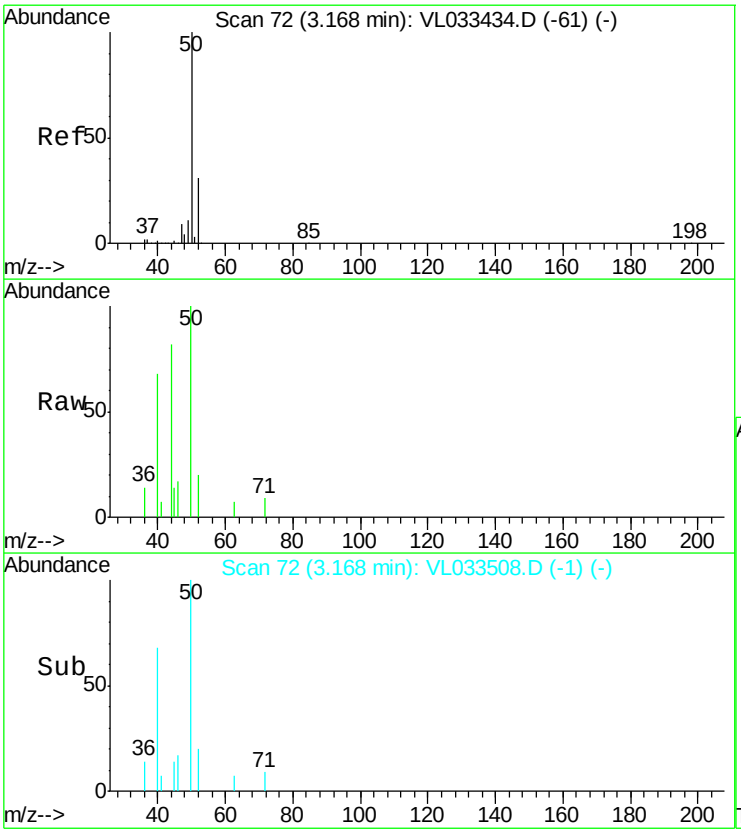

#3
Chlorodifluoromethane
Concen: 0.08 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 51 Resp: 6522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 10.9 | 15.7 | 23.5# |



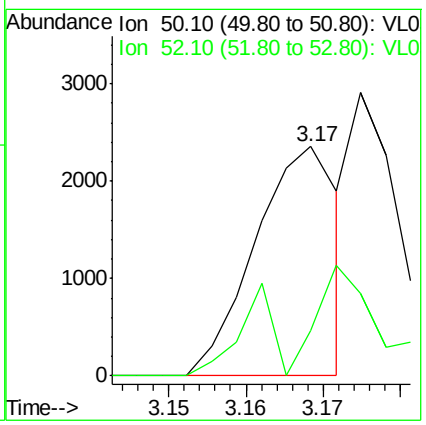

**Instrument :**
MSVOA_L
**ClientSampleId :**

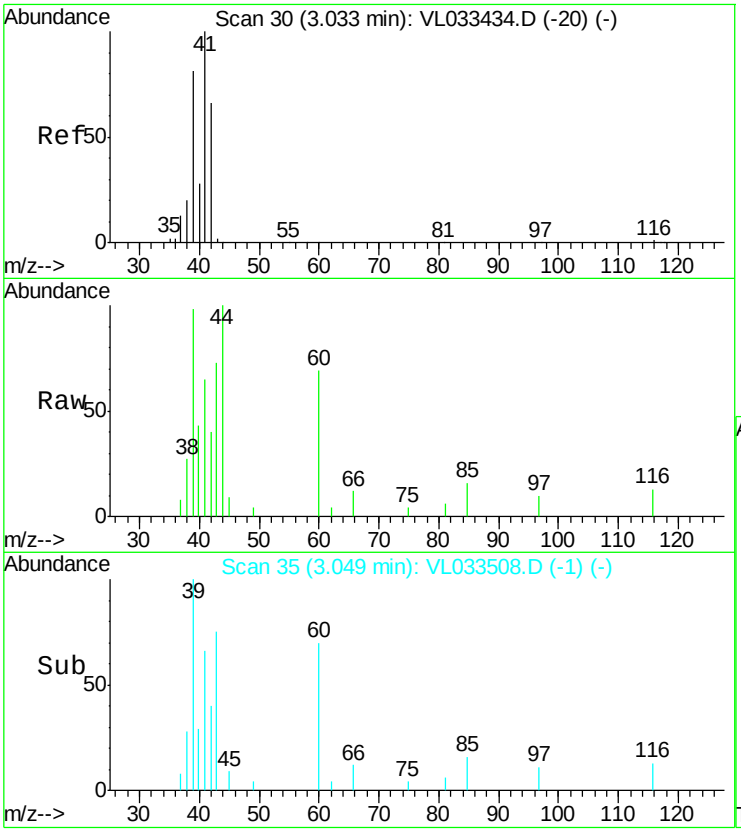



#4
Chloromethane
Concen: 0.04 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 50 Resp: 1751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 19.8 | 25.0 | 37.6# |

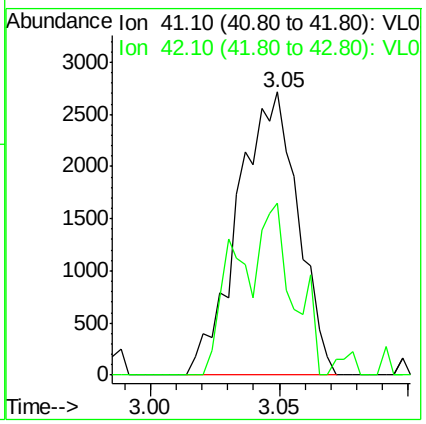




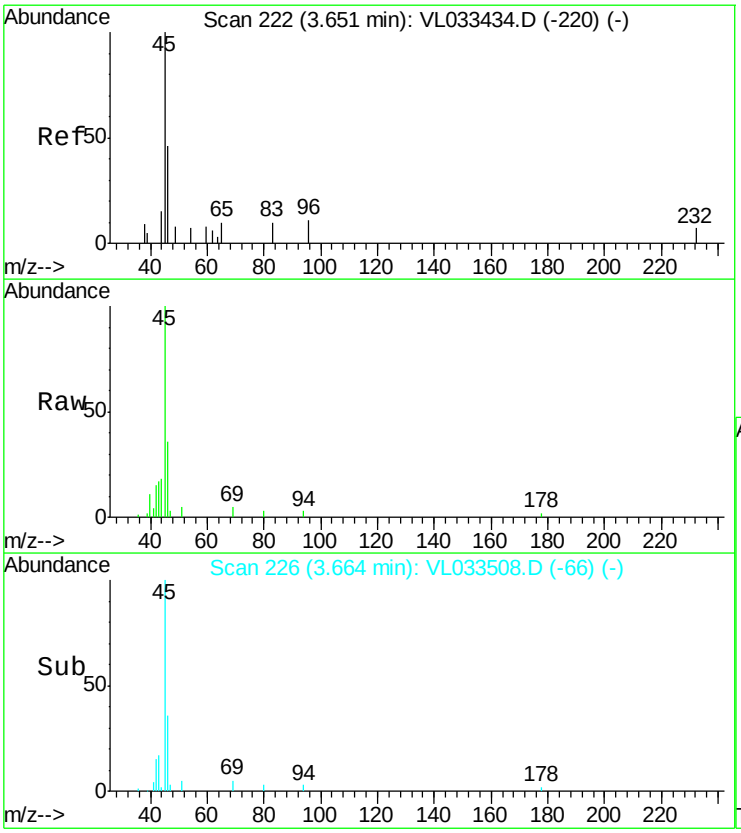

#9
Propene
Concen: 0.12 ppbv
RT: 3.05 min Scan# 35
Delta R.T. 0.02 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 41 Resp: 4421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.4 | 53.9 | 80.9 |



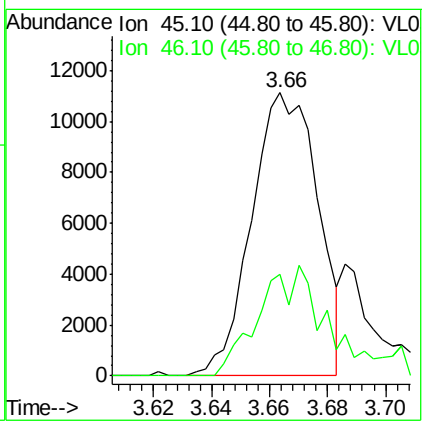

**Instrument :**
MSVOA_L
**ClientSampleId :**

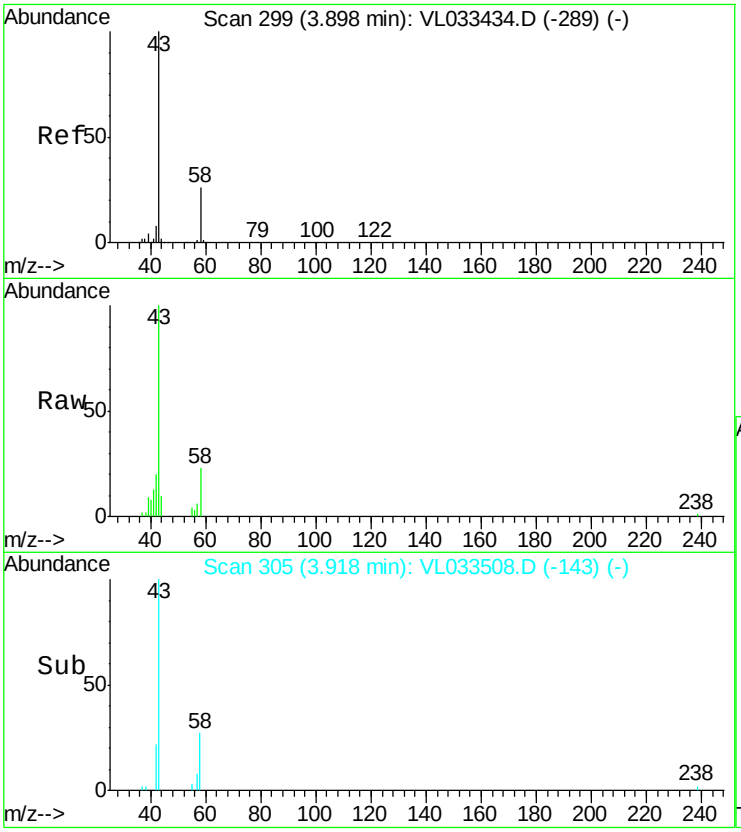



#13
Ethanol
Concen: 1.91 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 45 Resp: 17692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 43.1 | 25.4 | 101.8 |



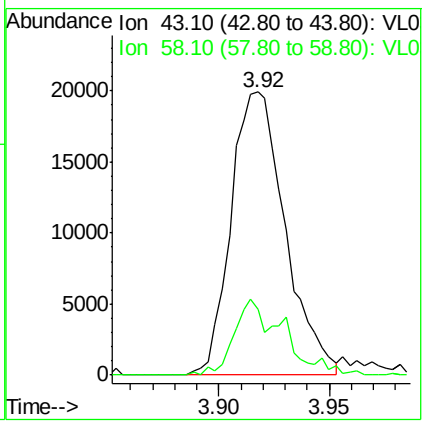


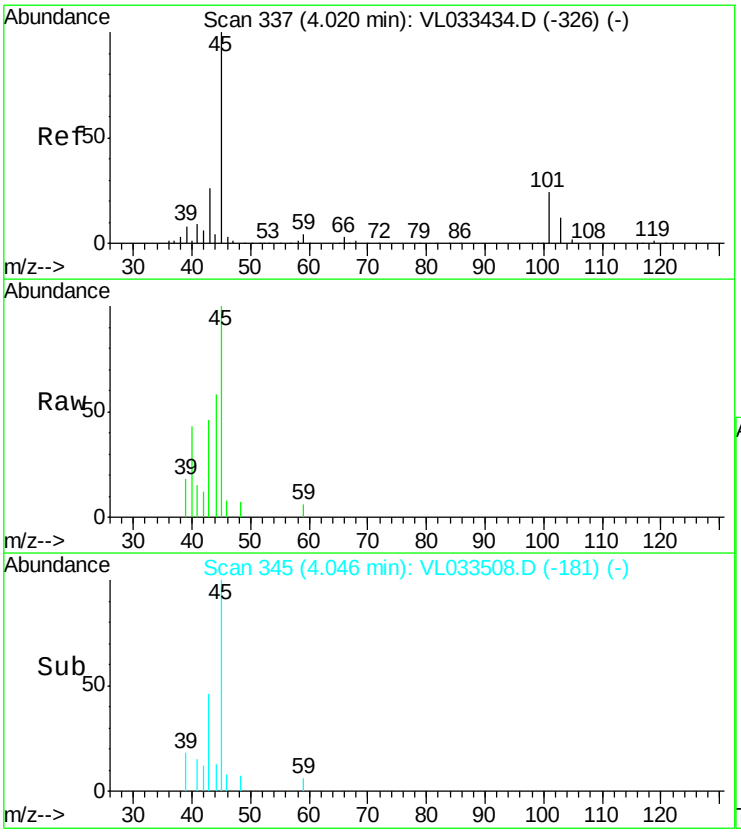

#15
Acetone
Concen: 0.38 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.02 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

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

Tgt Ion: 43 Resp: 33871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.6 | 20.5 | 30.7 |

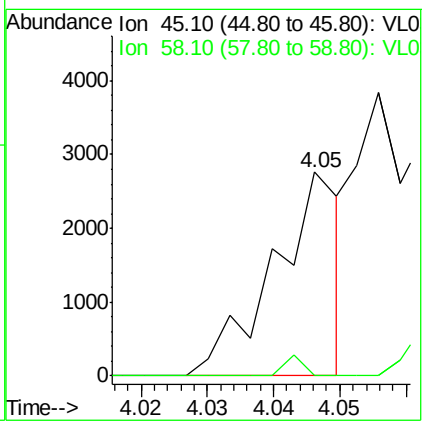


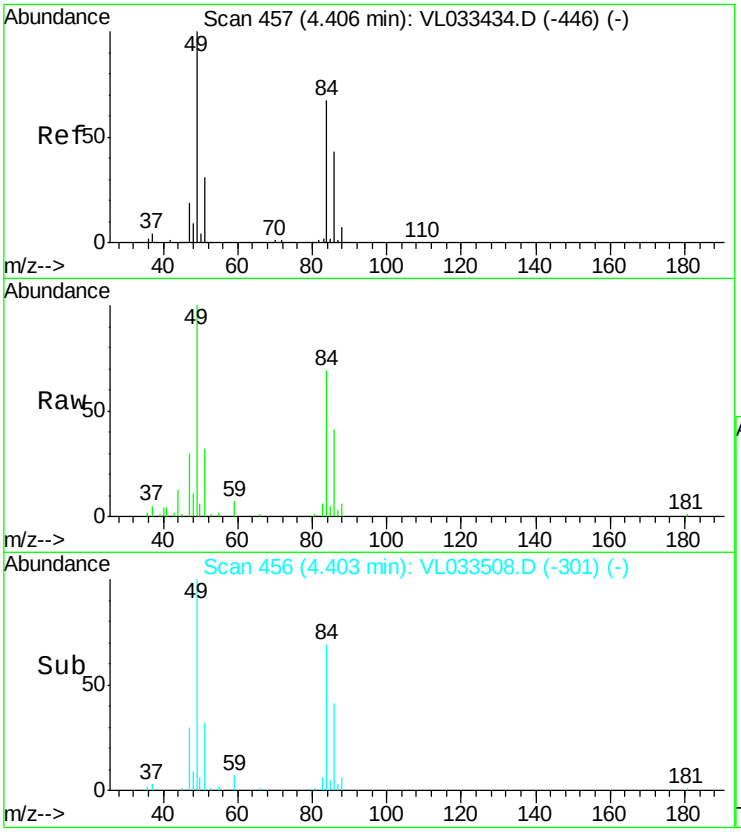




#19
Isopropyl Alcohol
Concen: 0.03 ppbv
RT: 4.05 min Scan# 345
Delta R.T. 0.03 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 45 Resp: 1927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 432.6 | 1.4 | 2.2# |



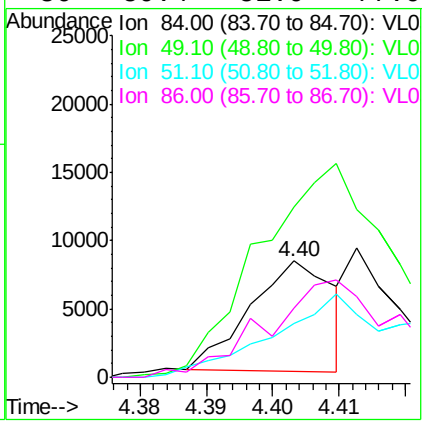


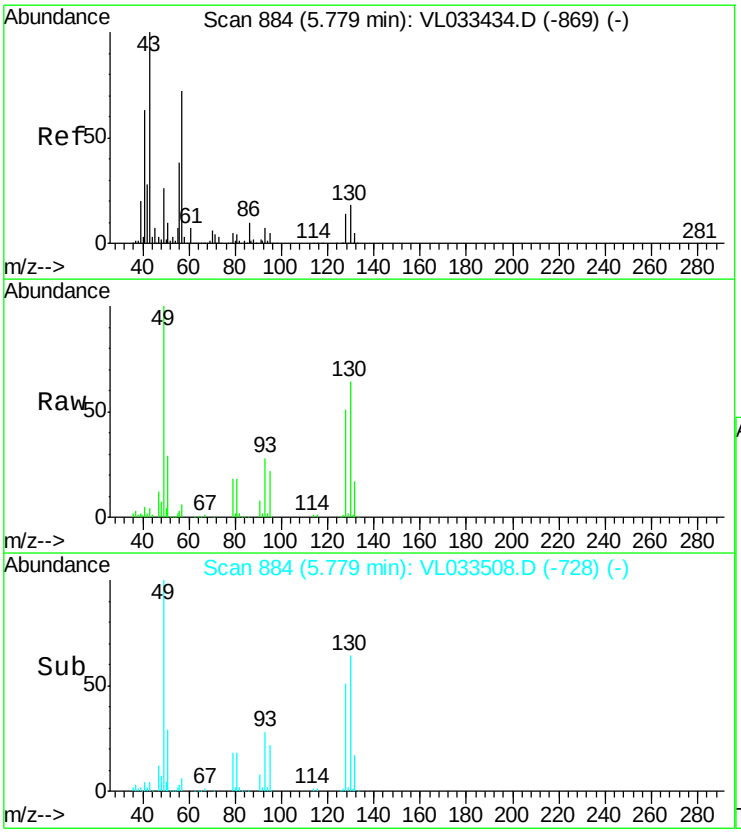

#20
Methylene Chloride
Concen: 0.18 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

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

Tgt Ion: 84 Resp: 6940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 146.0 | 120.0 | 180.0 |
| 51 | 40.1 | 36.7 | 55.1 |
| 86 | 59.4 | 51.9 | 77.9 |

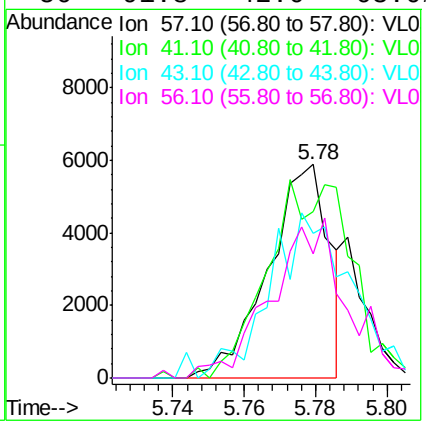


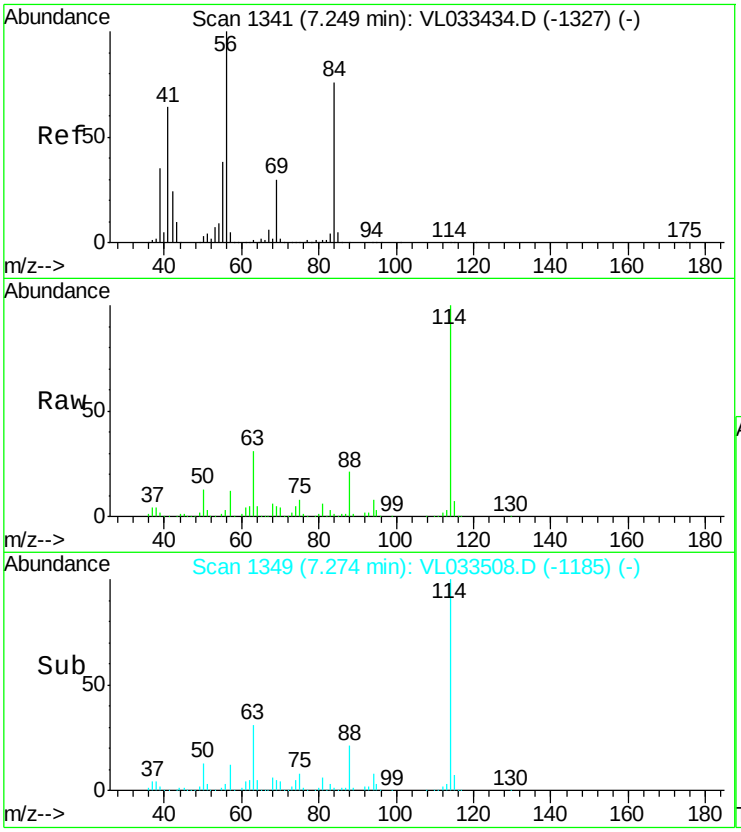




#26
Hexane
Concen: 0.09 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 57 Resp: 6965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 127.9 | 70.7 | 106.1# |
| 43 | 107.6 | 182.6 | 274.0# |
| 56 | 91.8 | 42.0 | 63.0# |



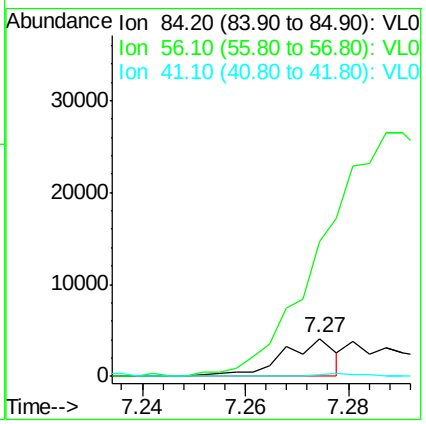


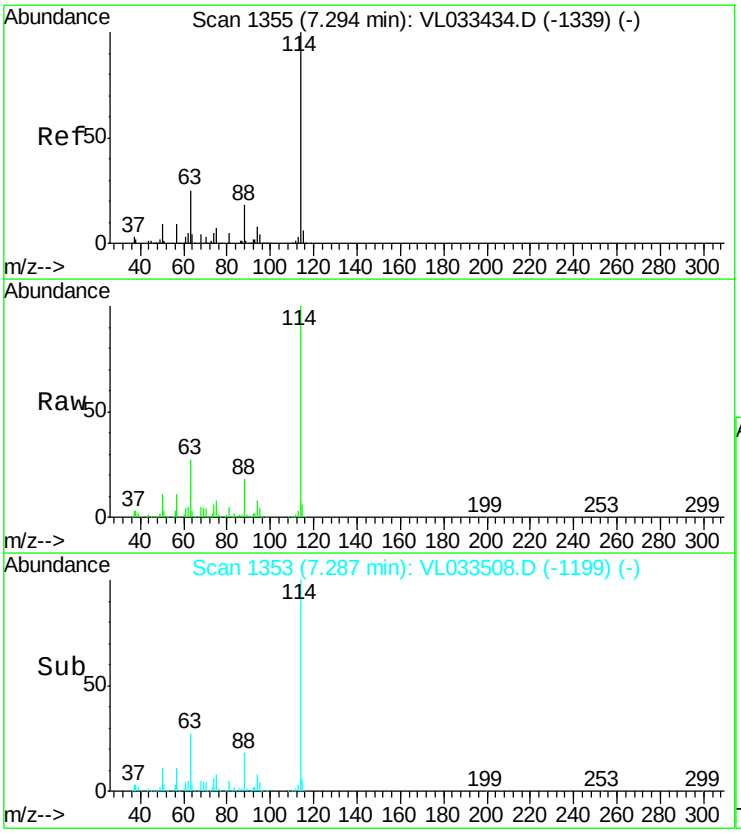

#30
Cyclohexane
Concen: 0.05 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. 0.03 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

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

Tgt Ion: 84 Resp: 2911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 109.7 | 164.5# |
| 41 | 12.0 | 68.2 | 102.2# |

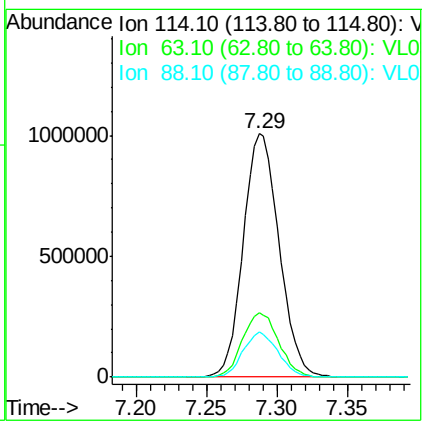


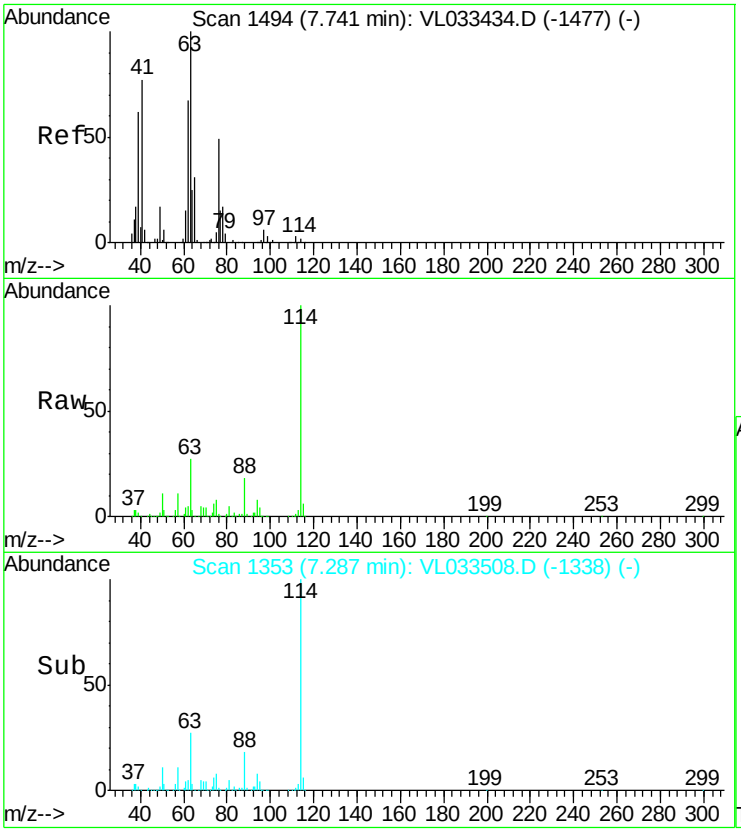




#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion:114 Resp: 1796493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.0 | 21.5 | 32.3 |
| 88 | 18.1 | 14.5 | 21.7 |



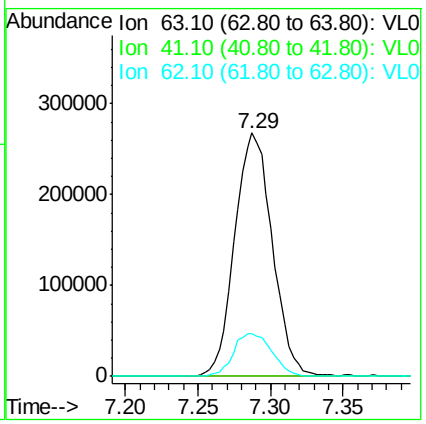


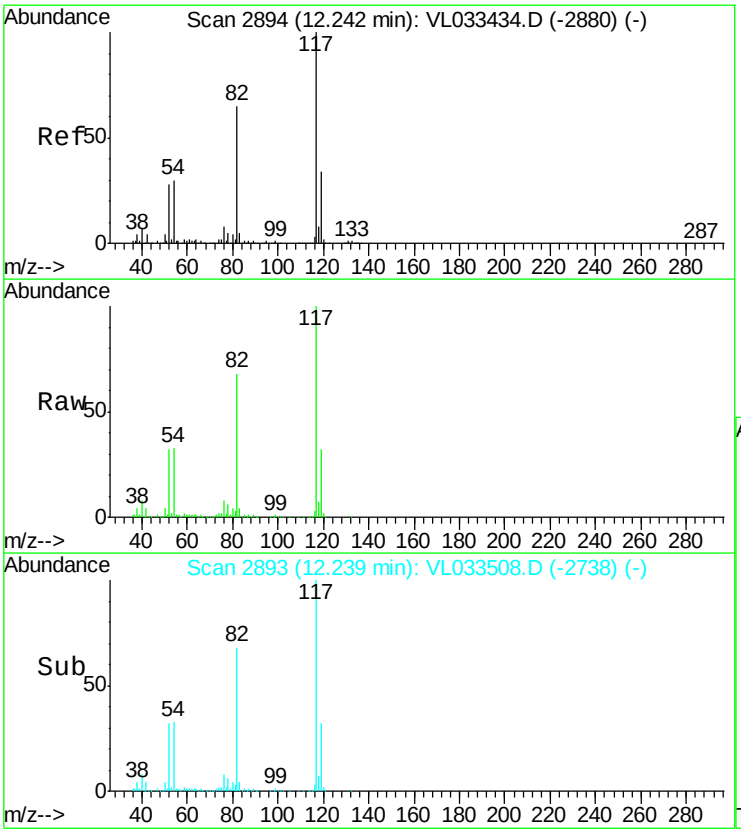

#39
1,2-Dichloropropane
Concen: 8.18 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.45 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

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

Tgt Ion: 63 Resp: 483284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 61.2 | 91.8# |
| 62 | 17.5 | 54.0 | 81.0# |

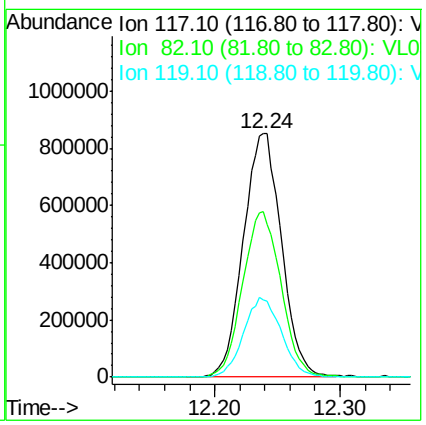


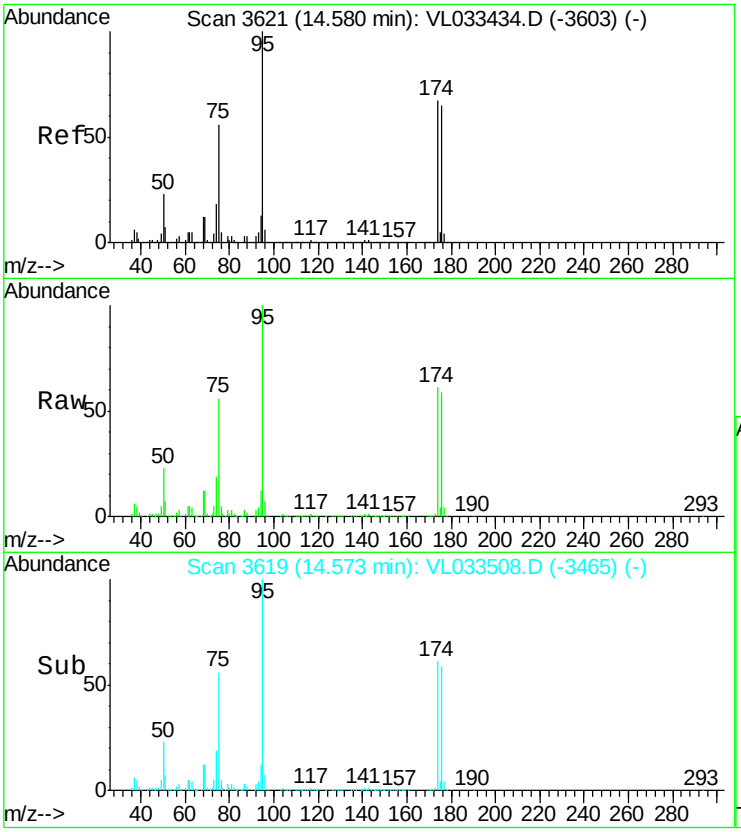




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion:117 Resp: 1800401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.5 | 51.5 | 77.3 |
| 119 | 32.7 | 25.5 | 38.3 |






#68
1-Bromo-4-Fluorobenzene
Concen: 10.10 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

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

Tgt Ion: 95 Resp: 1426248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.3 | 52.9 | 79.3 |
| 175 | 4.8 | 3.8 | 5.6 |