Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
Data File : VL033314.D
Acq On : 14 Mar 2019 13:36
Operator : SY/AP
Sample : K1758-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** BP-VPB201-AIR-DW-20190305

Quant Time: Mar 15 02:06:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 14 00:01:31 2019
QLast Update : Thu Mar 14 00:01:31 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.76 | 49 | 766952 | 10.00 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 7.29 | 114 | 1698120 | 10.00 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 12.24 | 117 | 1917091 | 10.00 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.58 | 95 | 1519063 | 10.38 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 103.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.08 | 85 | 66604 | 0.469 | ppbv | 96 |
| 3) Chlorodifluoromethane | 3.02 | 51 | 44179 | 0.442 | ppbv # | 87 |
| 4) Chloromethane | 3.17 | 50 | 25029 | 0.462 | ppbv | 99 |
| 9) Propene | 3.05 | 41 | 27882 | 0.618 | ppbv # | 74 |
| 10) Heptane | 8.25 | 43 | 2725 | 0.025 | ppbv # | 28 |
| 11) Trichlorofluoromethane | 4.00 | 101 | 32290 | 0.226 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101 | 4891 | 0.051 | ppbv # | 14 |
| 13) Ethanol | 3.67 | 45 | 89595 | 6.483 | ppbv | 100 |
| 15) Acetone | 3.90 | 43 | 320499 | 3.039 | ppbv # | 89 |
| 19) Isopropyl Alcohol | 4.06 | 45 | 11159 | 0.173 | ppbv # | 95 |
| 20) Methylene Chloride | 4.41 | 84 | 121007 | 2.834 | ppbv | 97 |
| 23) Vinyl Acetate | 5.15 | 43 | 3299 | 0.022 | ppbv # | 1 |
| 25) Ethyl Acetate | 5.78 | 43 | 79760 | 0.415 | ppbv # | 84 |
| 26) Hexane | 5.78 | 57 | 91889 | 1.024 | ppbv # | 47 |
| 34) 2-Butanone | 5.34 | 43 | 33371 | 0.284 | ppbv | 98 |
| 35) Carbon Tetrachloride | 7.13 | 117 | 7813 | 0.060 | ppbv | 90 |
| 36) Benzene | 7.00 | 78 | 32472 | 0.195 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 6.41 | 62 | 3067 | 0.031 | ppbv # | 84 |
| 39) 1,2-Dichloropropane | 7.29 | 63 | 460039 | 7.183 | ppbv # | 24 |
| 44) 2,2,4-Trimethylpentane | 7.98 | 57 | 7473 | 0.026 | ppbv # | 1 |
| 53) Toluene | 9.95 | 91 | 232154 | 1.216 | ppbv | 98 |
| 60) o-Xylene | 13.85 | 91 | 4776 | 0.021 | ppbv # | 5 |

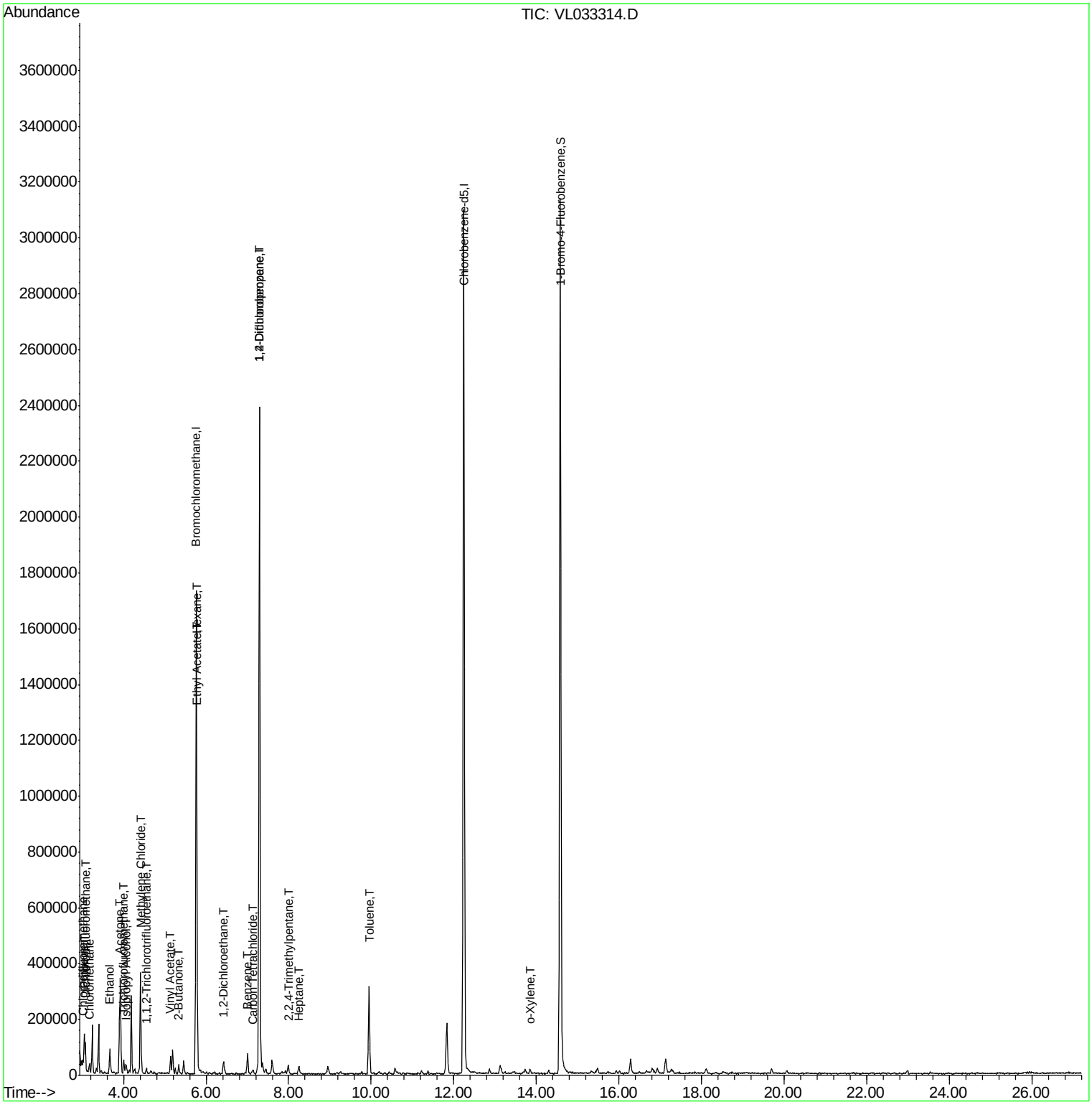
(#) = qualifier out of range (m) = manual integration (+) = signals summed

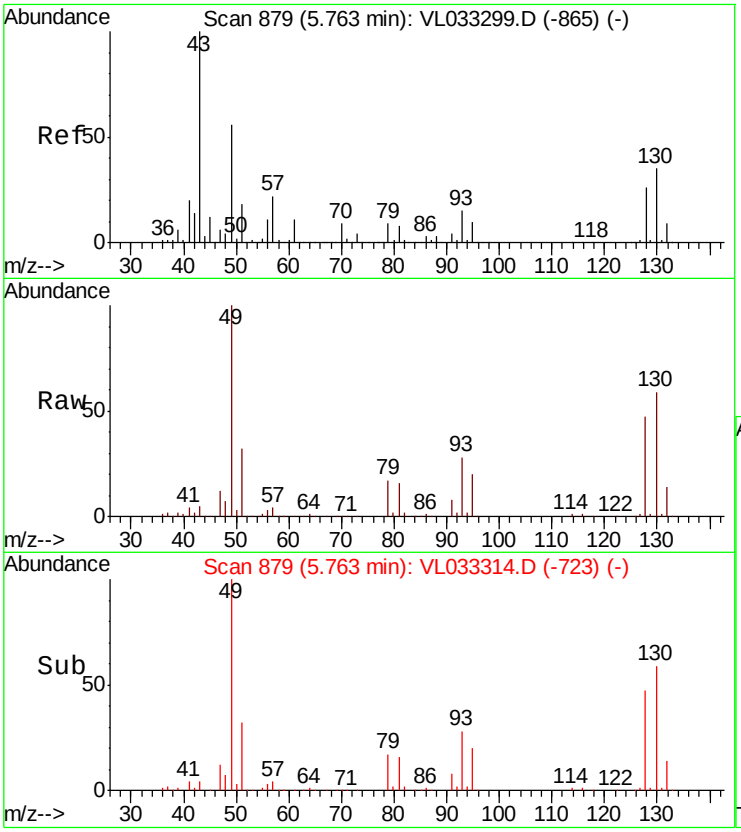
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
Data File : VL033314.D
Acq On : 14 Mar 2019 13:36
Operator : SY/AP
Sample : K1758-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Quant Time: Mar 15 02:06:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 14 00:01:31 2019
QLast Update : Thu Mar 14 00:01:31 2019
Response via : Initial Calibration



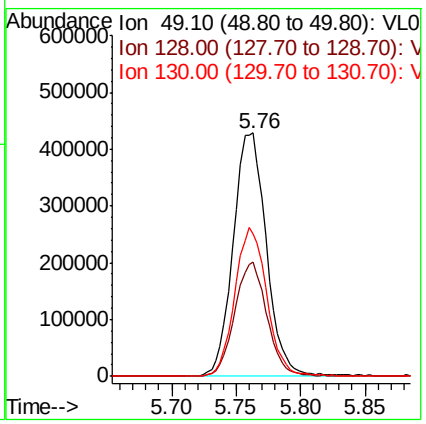


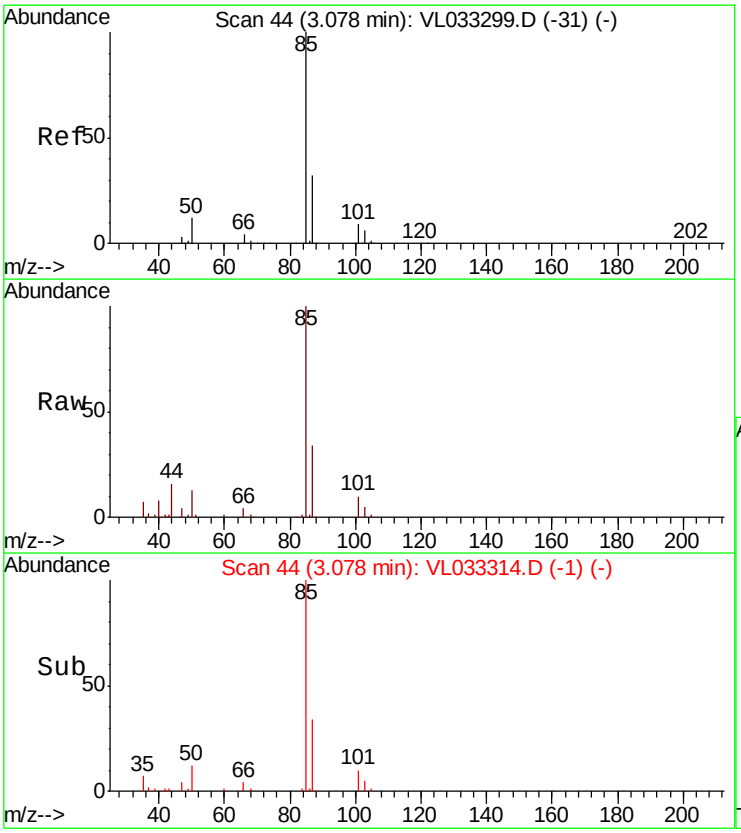

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 49 Resp: 766952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 23.4 | 70.3 |
| 130 | 59.2 | 29.9 | 89.7 |

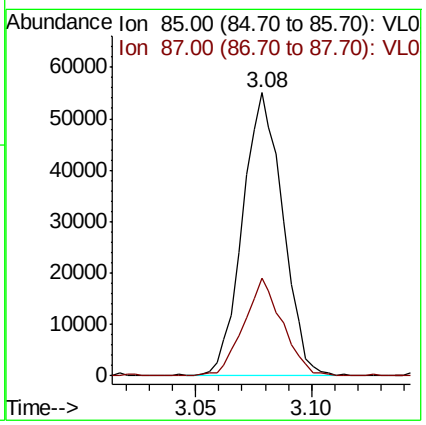


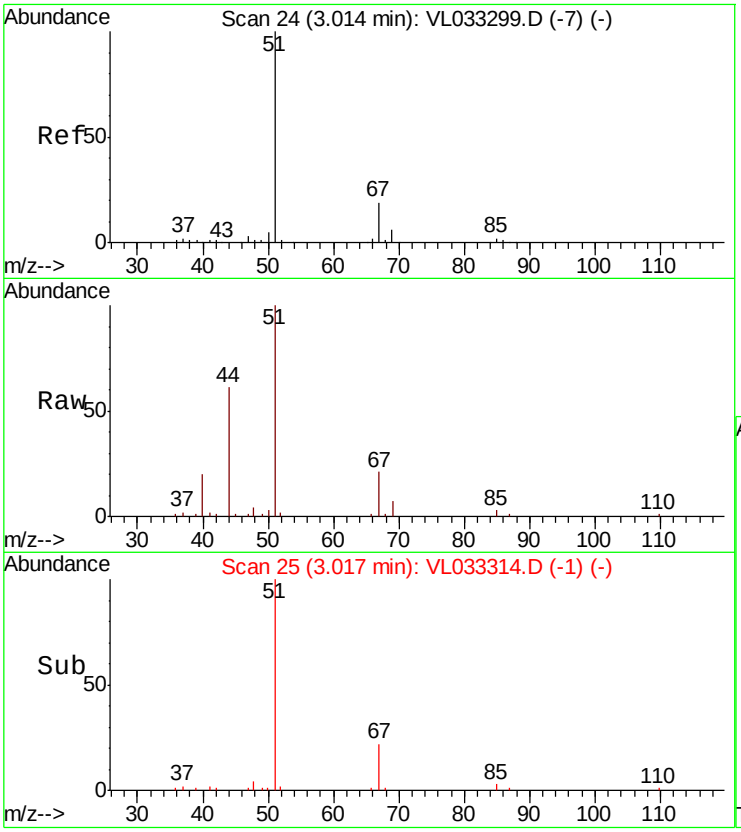




#2
Dichlorodifluoromethane
Concen: 0.469 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 85 Resp: 66604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.4 | 25.8 | 38.8 |



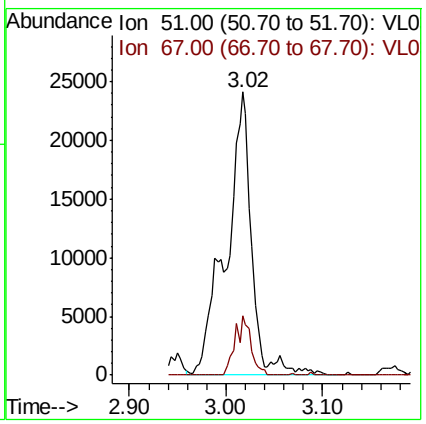


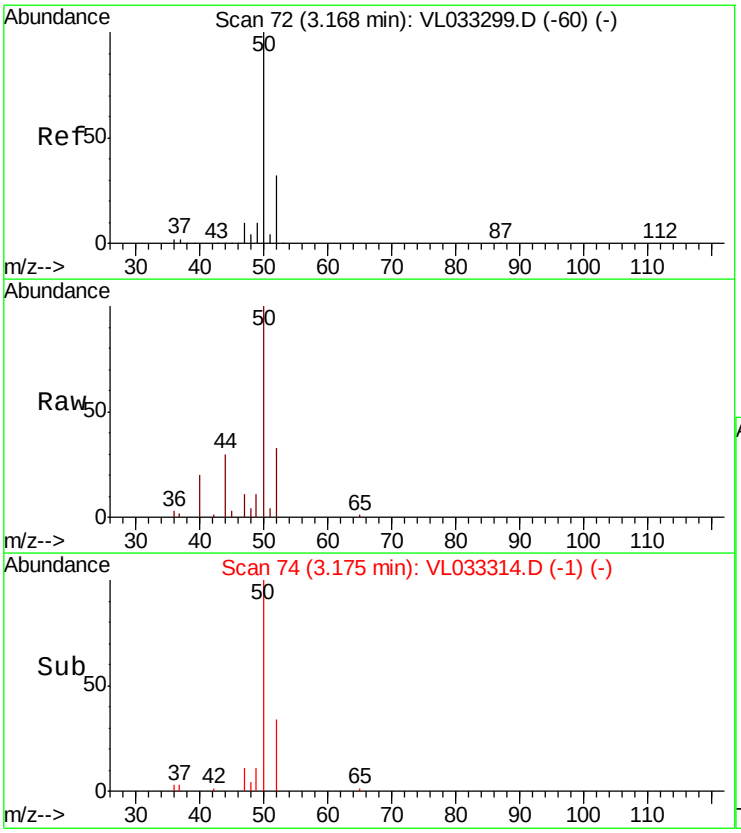

#3
Chlorodifluoromethane
Concen: 0.442 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 51 Resp: 44179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 13.0 | 14.9 | 22.3# |

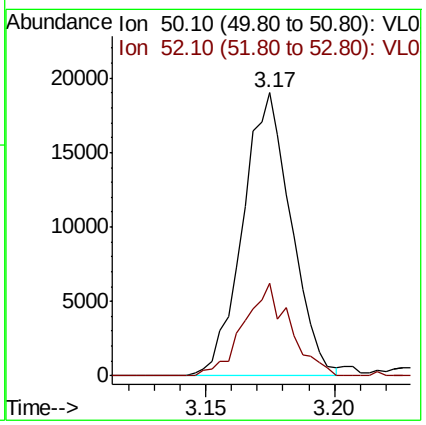


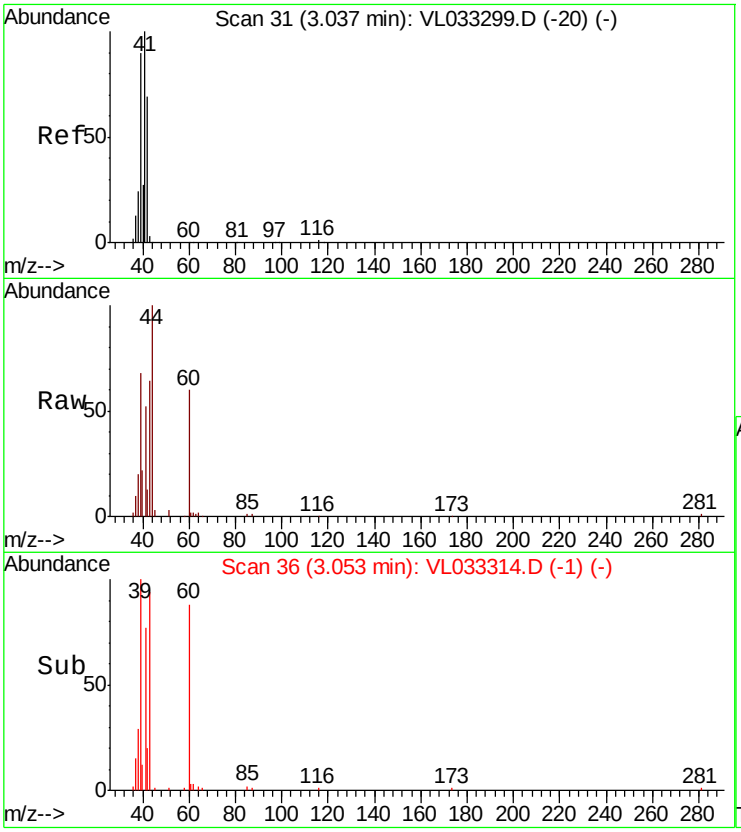




#4
Chloromethane
Concen: 0.462 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 50 Resp: 25029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 25.7 | 38.5 |



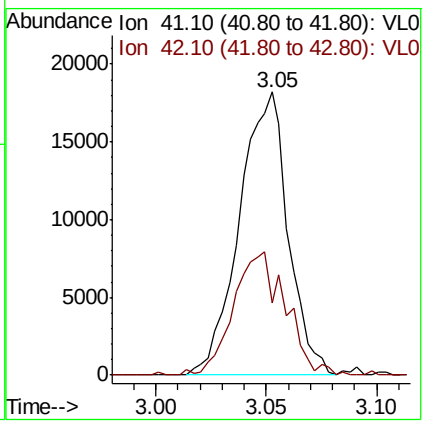


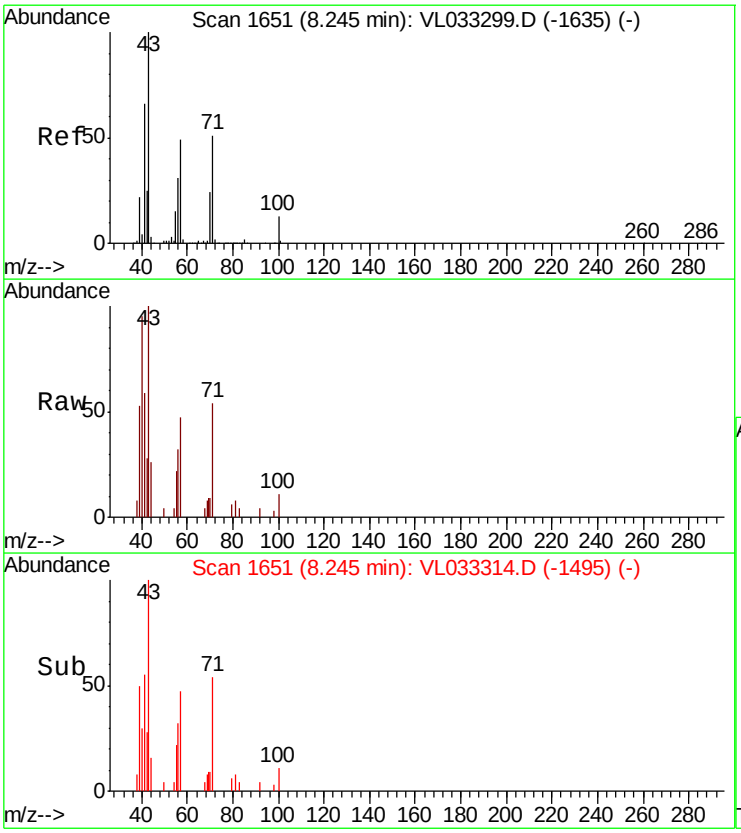

#9
Propene
Concen: 0.618 ppbv
RT: 3.05 min Scan# 36
Delta R.T. 0.02 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 41 Resp: 27882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 46.9 | 54.4 | 81.6# |

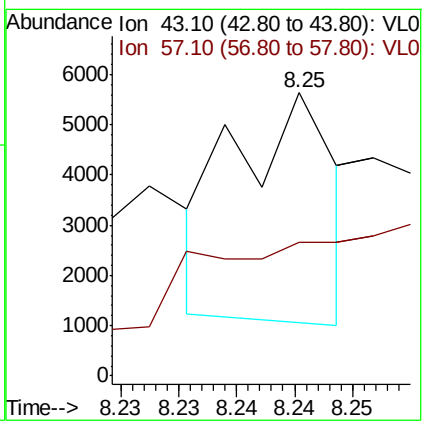


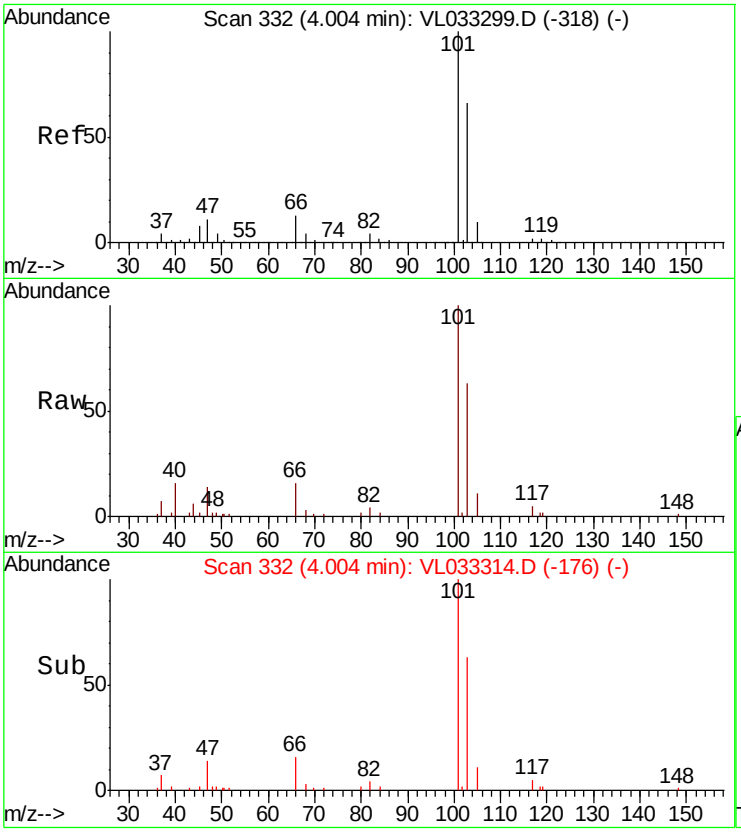




#10
Heptane
Concen: 0.025 ppbv
RT: 8.25 min Scan# 1651
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 43 Resp: 2725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.6 | 59.4# |



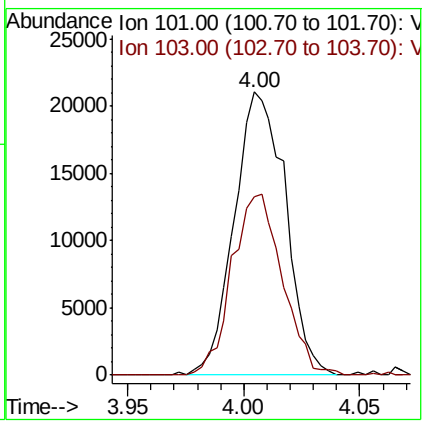


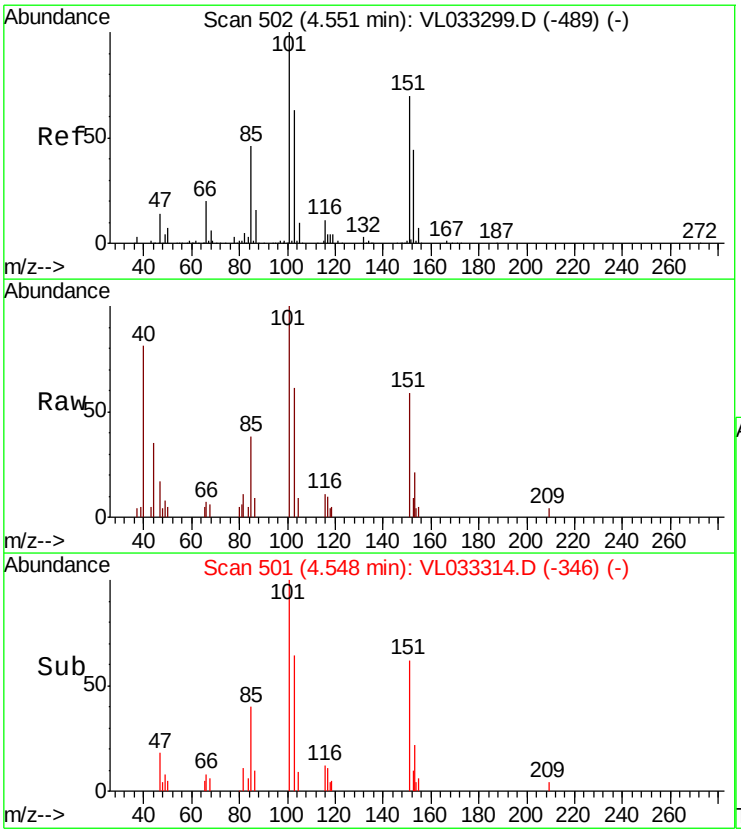

#11
Trichlorofluoromethane
Concen: 0.226 ppbv
RT: 4.00 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion:101 Resp: 32290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.2 | 52.5 | 78.7 |

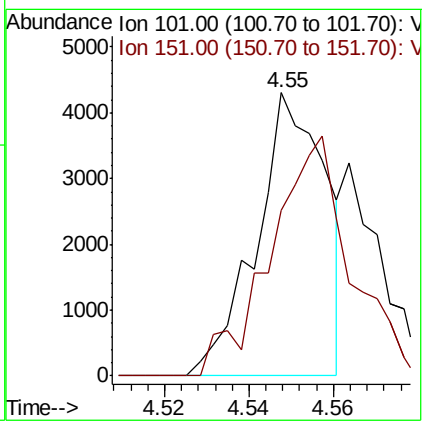


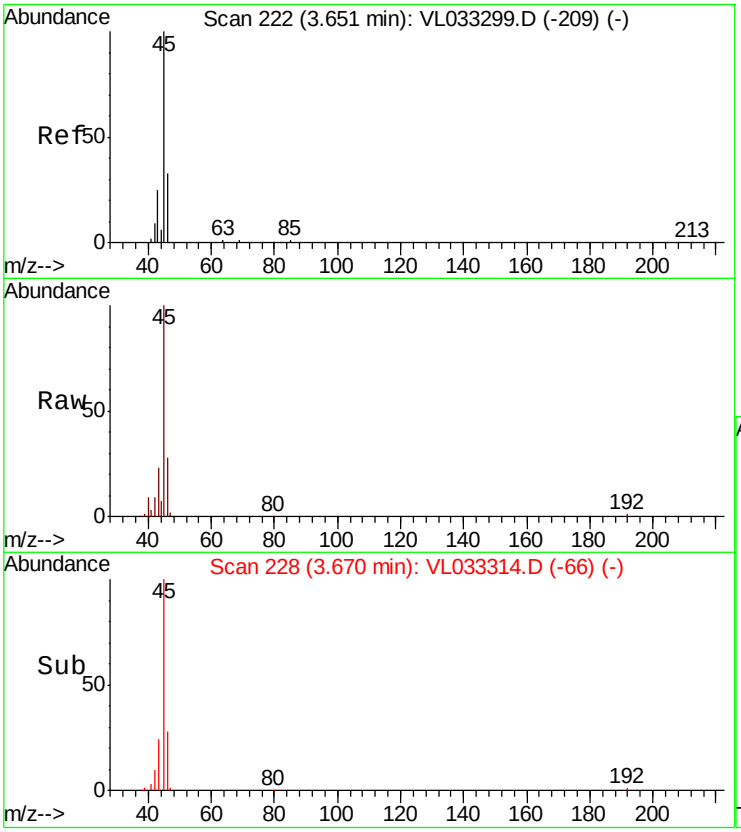




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.051 ppbv
RT: 4.55 min Scan# 501
Delta R.T. -0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion:101 Resp: 4891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 0.0 | 57.2 | 85.8# |



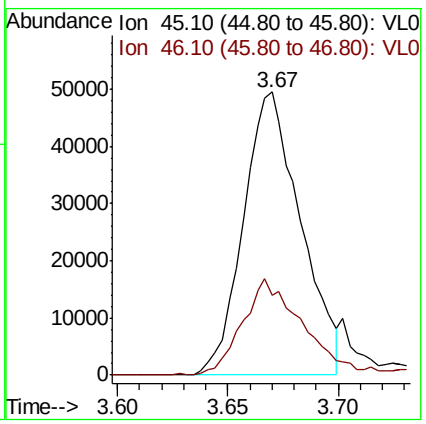


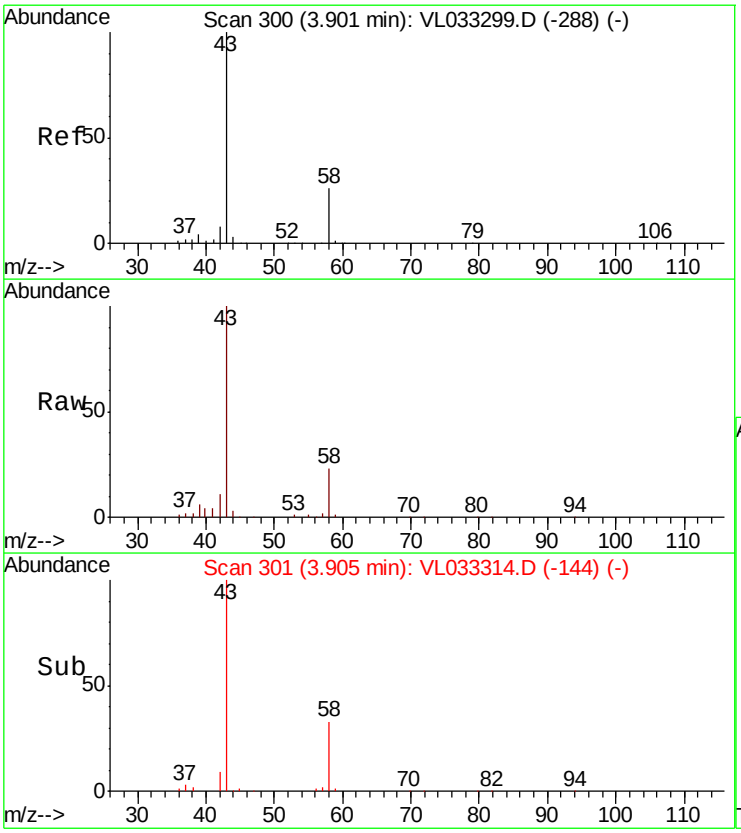

#13
Ethanol
Concen: 6.483 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.02 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 45 Resp: 89595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.9 | 14.9 | 59.5 |

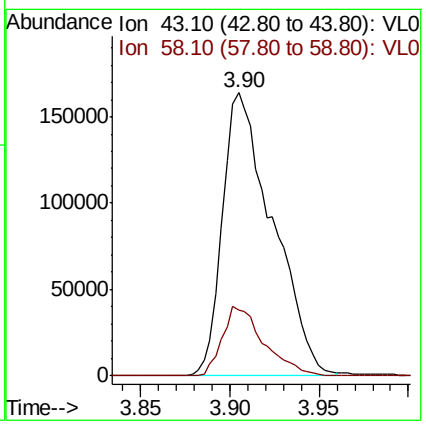


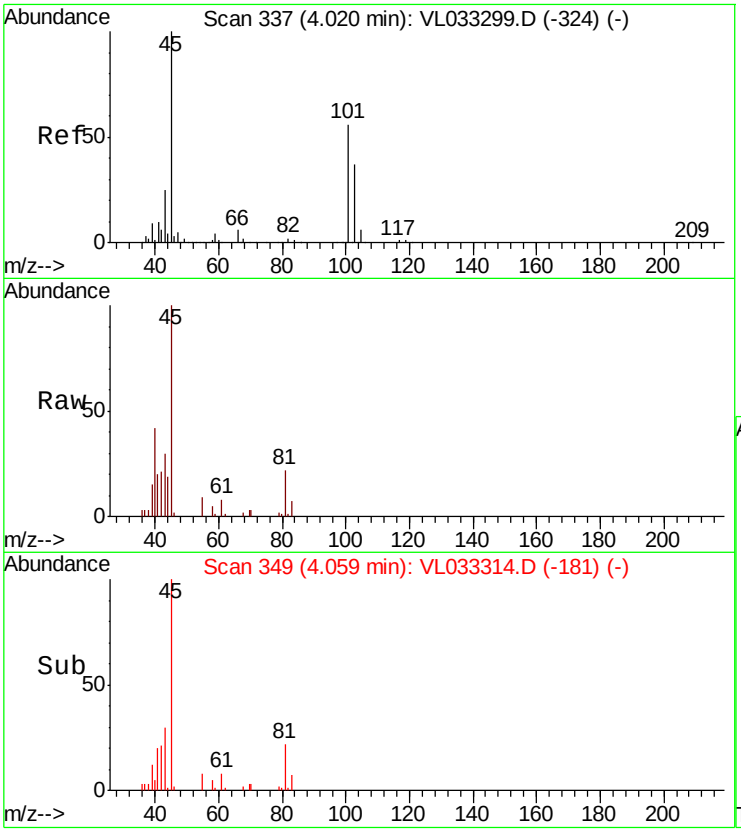




#15
Acetone
Concen: 3.039 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 43 Resp: 320499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.4 | 20.6 | 31.0# |



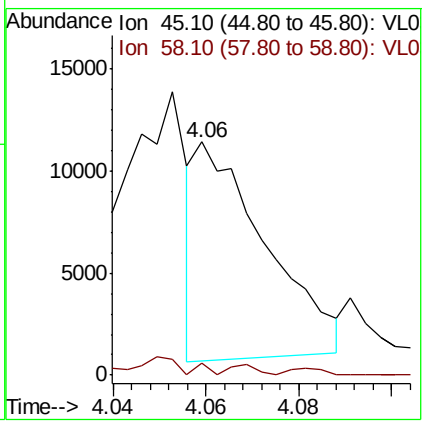


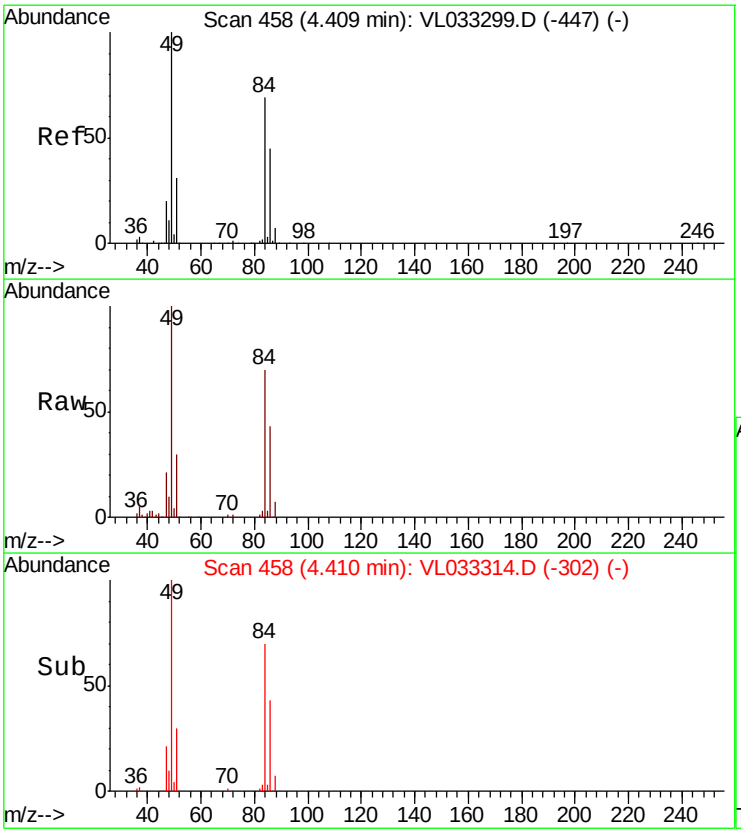

#19
Isopropyl Alcohol
Concen: 0.173 ppbv
RT: 4.06 min Scan# 349
Delta R.T. 0.04 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 45 Resp: 11159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 1.4 | 2.0# |

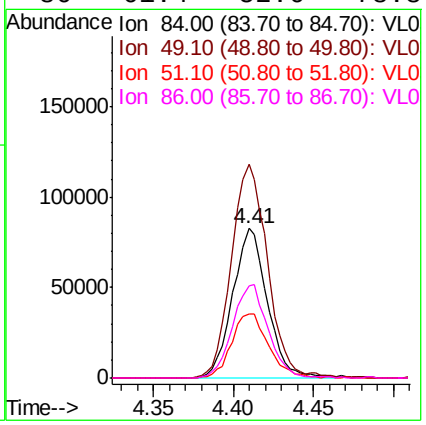


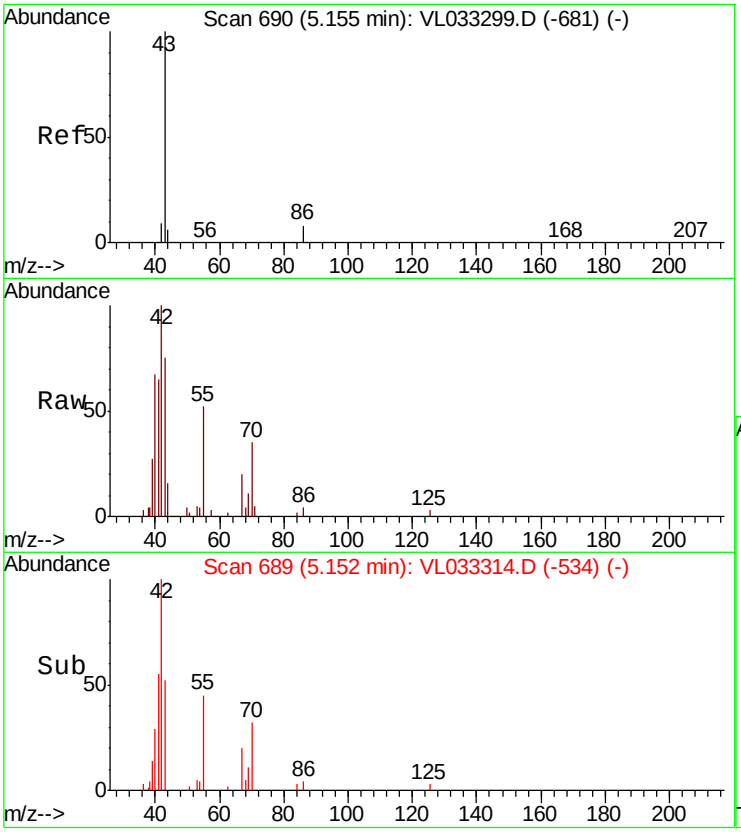




#20
Methylene Chloride
Concen: 2.834 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 84 Resp: 121007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 142.5 | 115.4 | 173.2 |
| 51 | 42.5 | 35.7 | 53.5 |
| 86 | 61.4 | 52.6 | 78.8 |



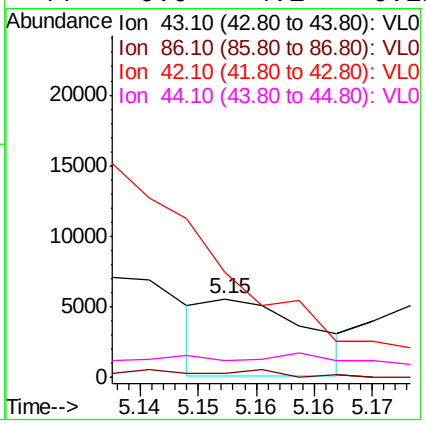


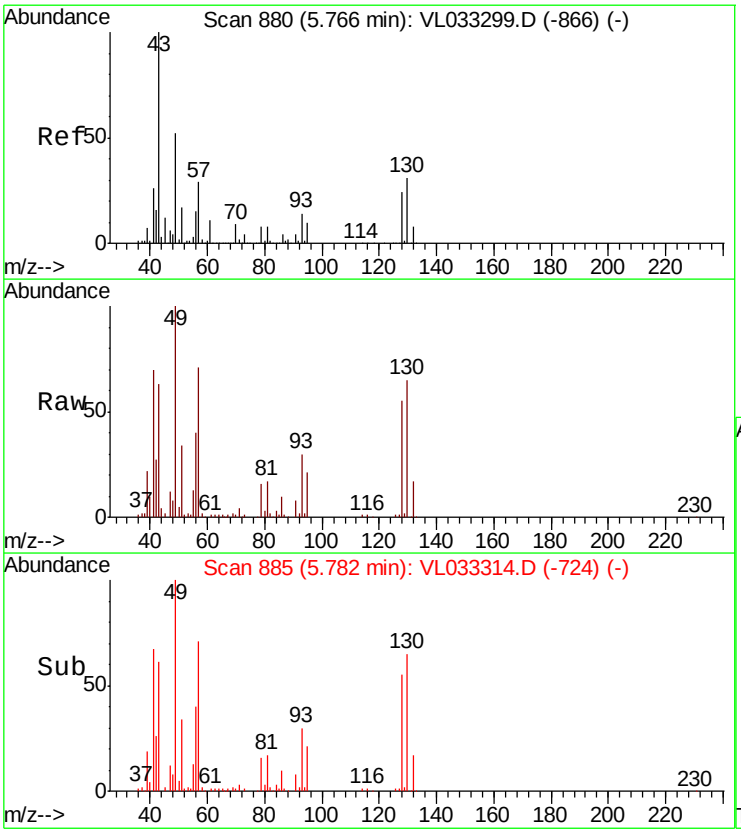

#23
Vinyl Acetate
Concen: 0.022 ppbv
RT: 5.15 min Scan# 689
Delta R.T. -0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 43 Resp: 3299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 2.9 | 5.8 | 8.8# |
| 42 | 198.3 | 7.8 | 11.8# |
| 44 | 0.0 | 4.1 | 6.1# |

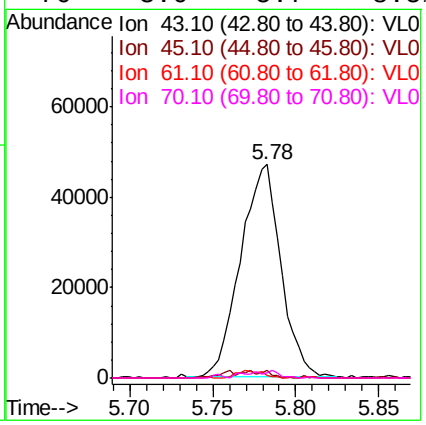


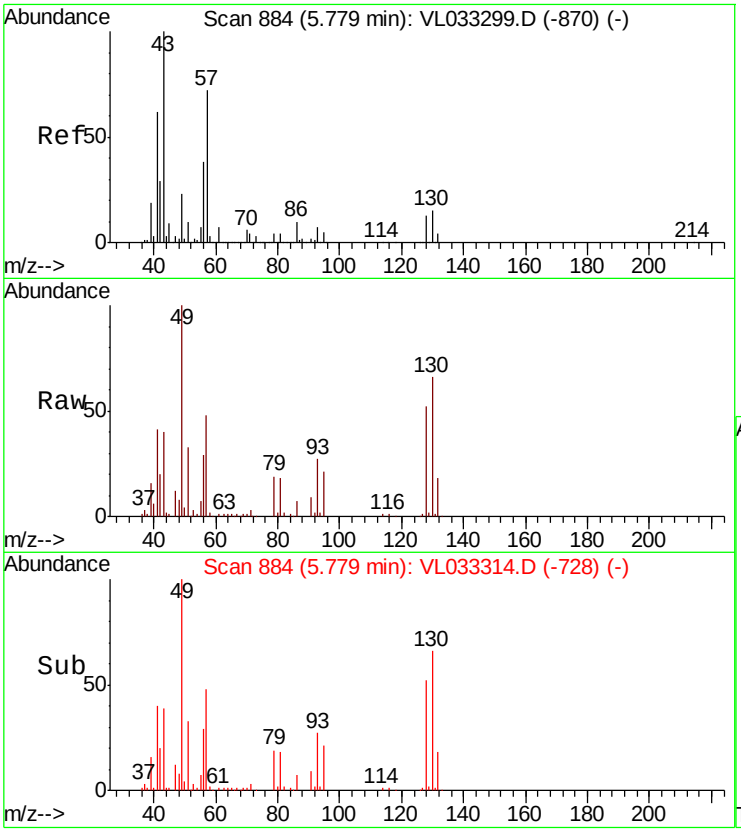




#25
Ethyl Acetate
Concen: 0.415 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.02 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 43 Resp: 79760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 3.6 | 8.0 | 12.0# |
| 61 | 2.6 | 7.5 | 11.3# |
| 70 | 3.0 | 5.7 | 8.5# |



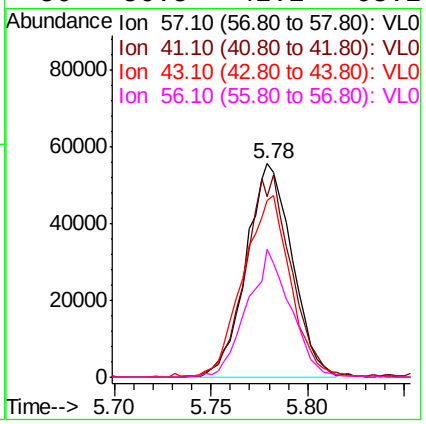


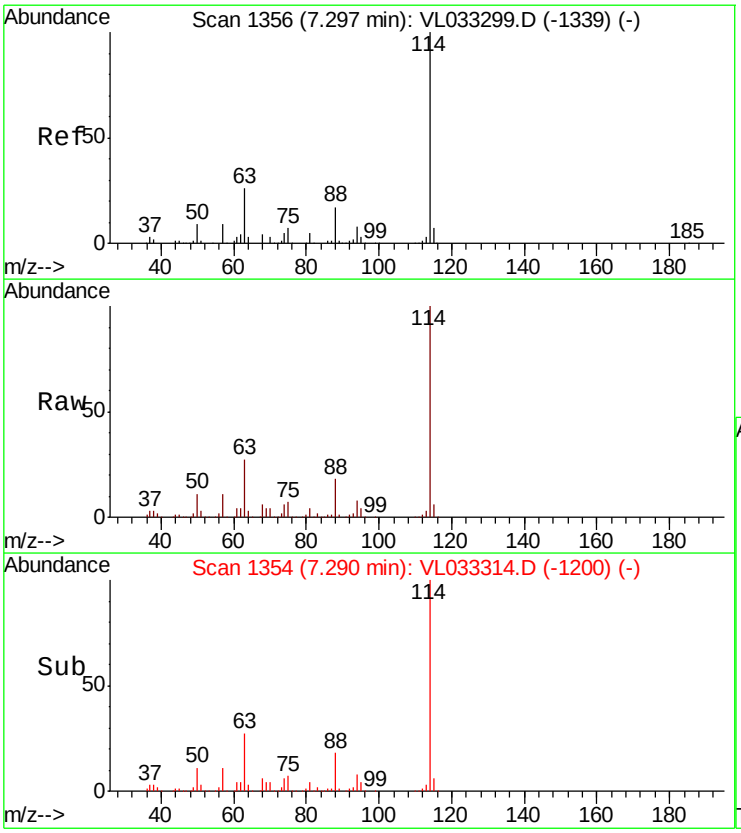

#26
Hexane
Concen: 1.024 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 57 Resp: 91889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.4 | 71.6 | 107.4 |
| 43 | 88.4 | 179.2 | 268.8# |
| 56 | 56.5 | 42.2 | 63.2 |

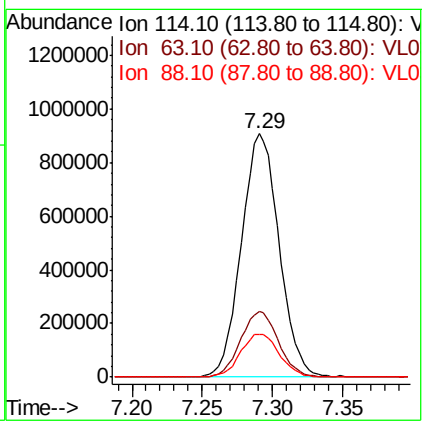


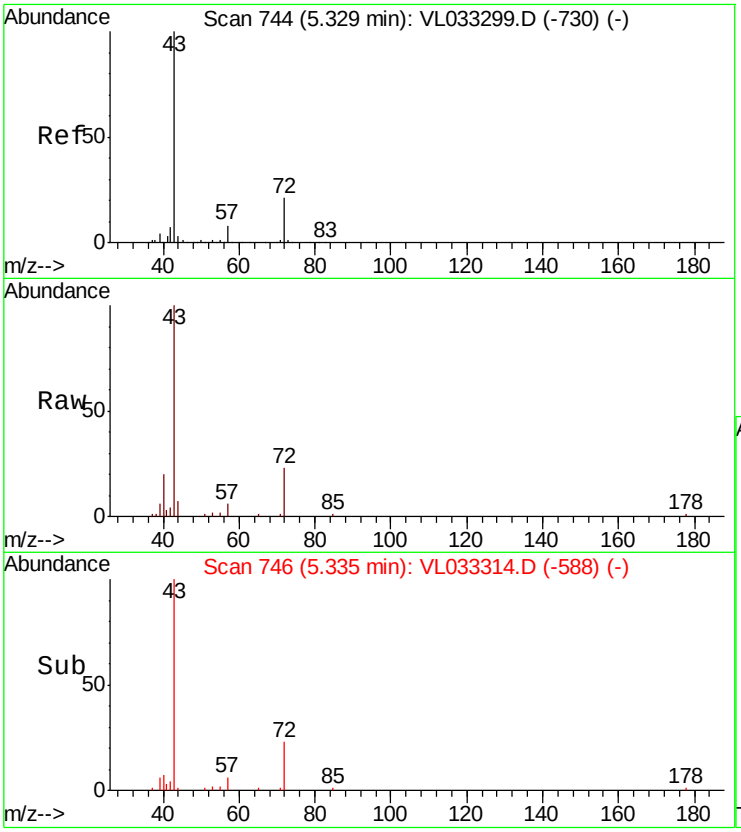




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion:114 Resp: 1698120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.3 | 21.3 | 31.9 |
| 88 | 18.3 | 14.5 | 21.7 |



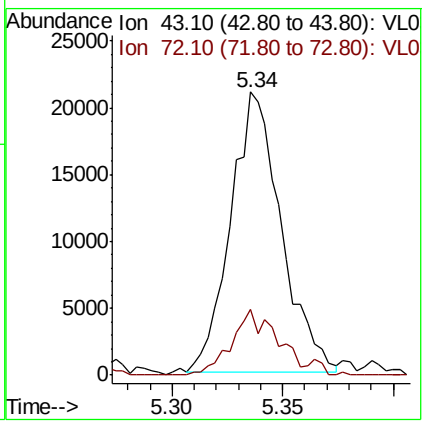


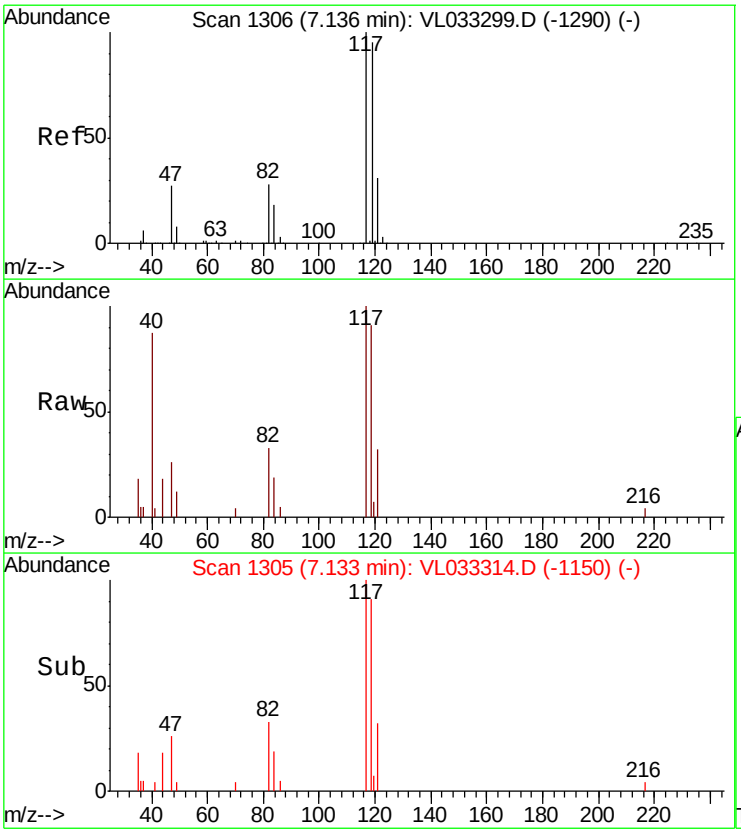

#34
2-Butanone
Concen: 0.284 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.01 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 43 Resp: 33371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.5 | 17.2 | 25.8 |

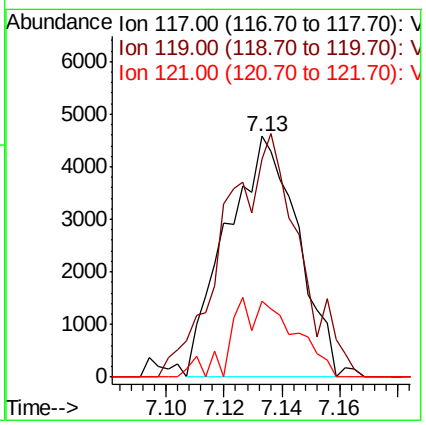


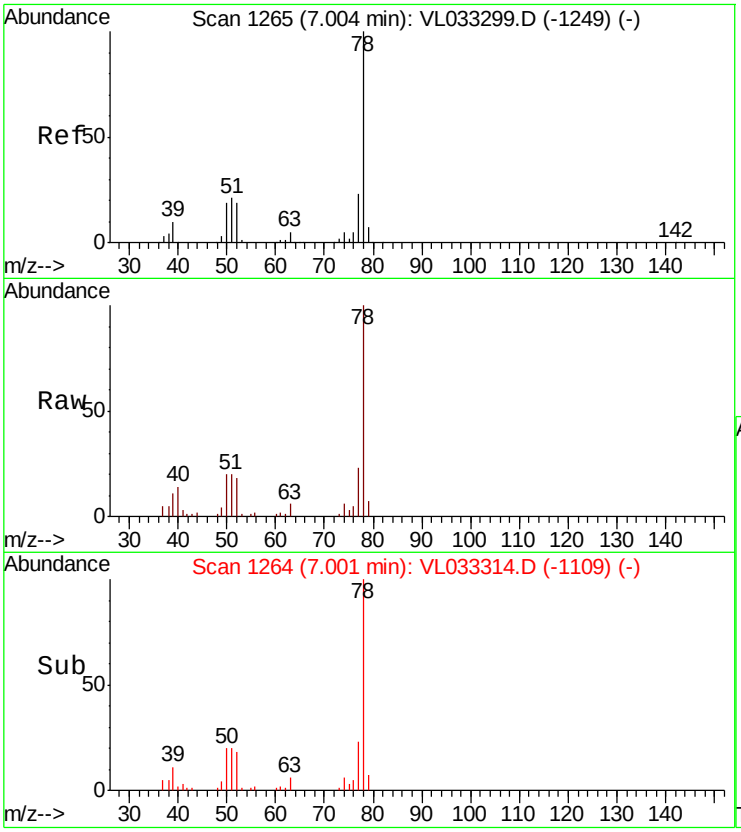




#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion:117 Resp: 7813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 82.5 | 75.9 | 113.9 |
| 121 | 31.7 | 25.2 | 37.8 |



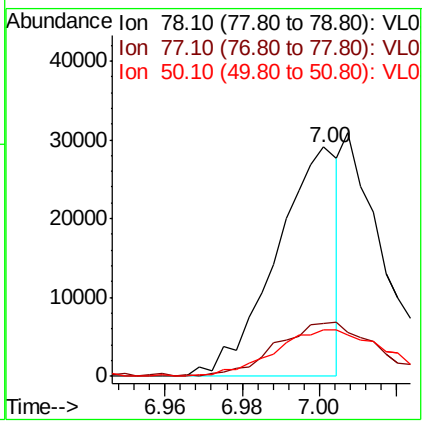


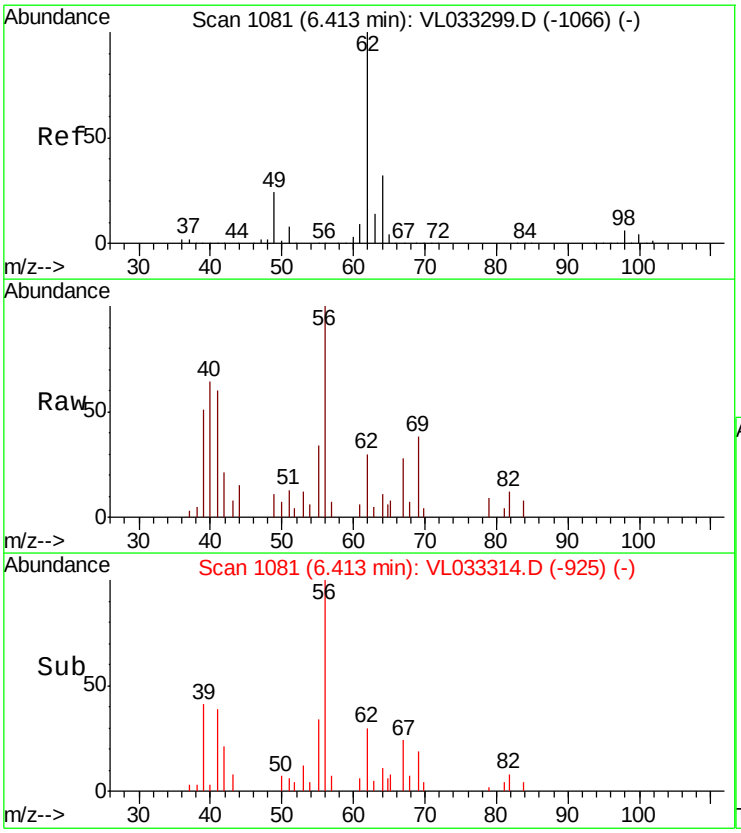

#36
Benzene
Concen: 0.195 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 78 Resp: 32472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.2 | 18.6 | 28.0 |
| 50 | 20.2 | 15.2 | 22.8 |

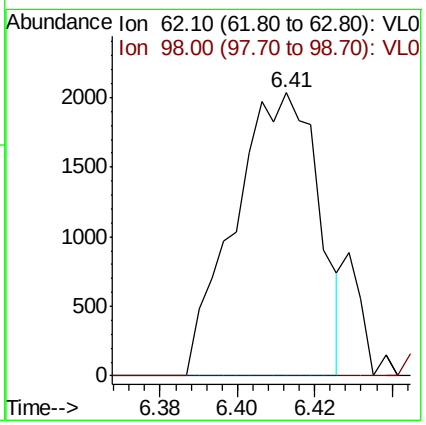


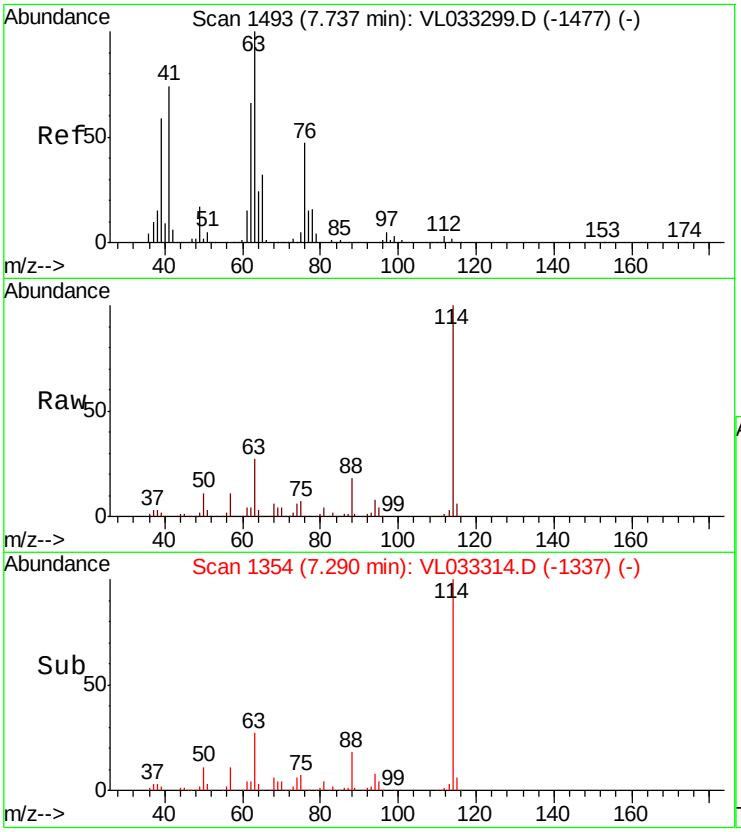




#37
1,2-Dichloroethane
Concen: 0.031 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 62 Resp: 3067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 4.4 | 6.6# |



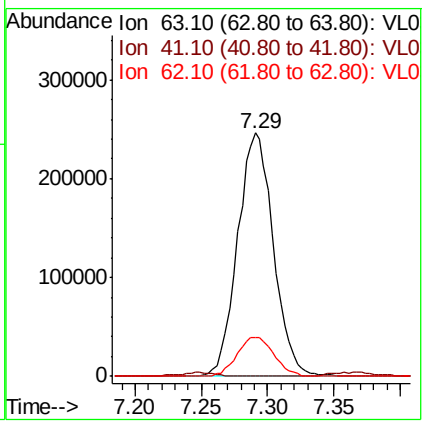


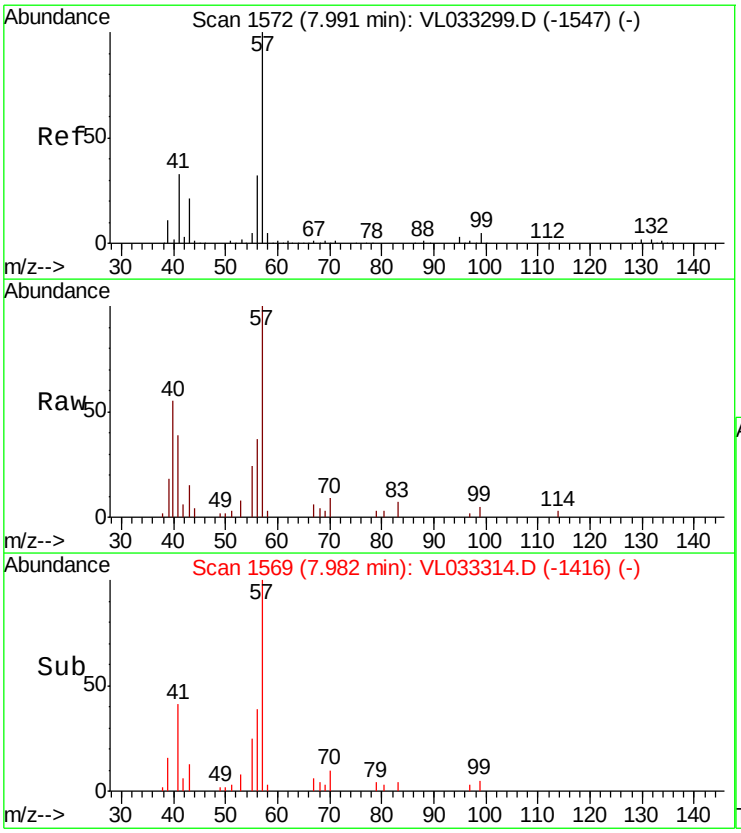

#39
1,2-Dichloropropane
Concen: 7.183 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.45 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 63 Resp: 460039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 59.0 | 88.4# |
| 62 | 16.0 | 53.0 | 79.4# |

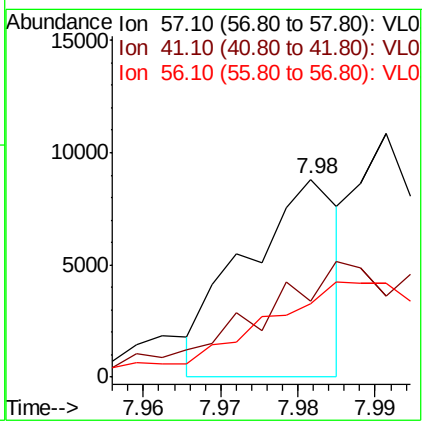


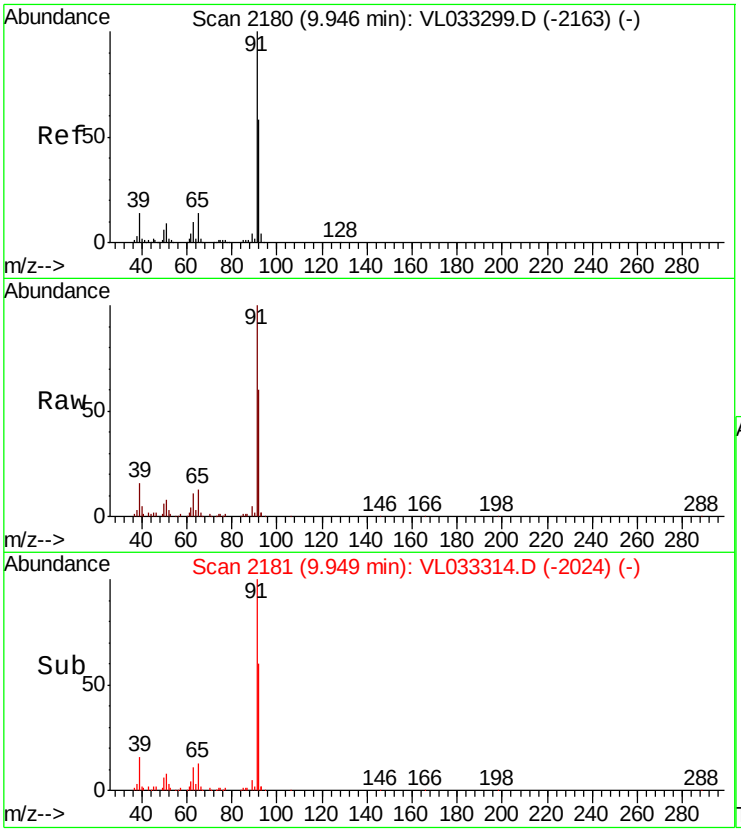




#44
2,2,4-Trimethylpentane
Concen: 0.026 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 57 Resp: 7473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 158.0 | 25.9 | 38.9# |
| 56 | 130.7 | 24.6 | 36.8# |



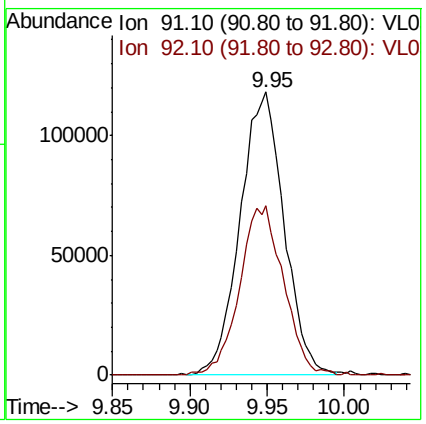


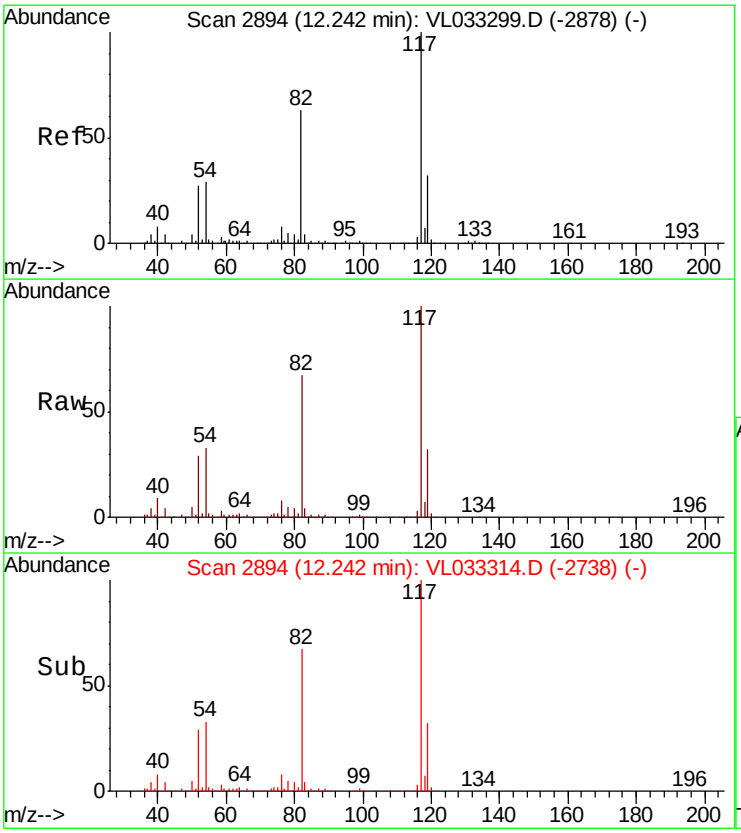

#53
Toluene
Concen: 1.216 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 91 Resp: 232154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.6 | 47.4 | 71.2 |

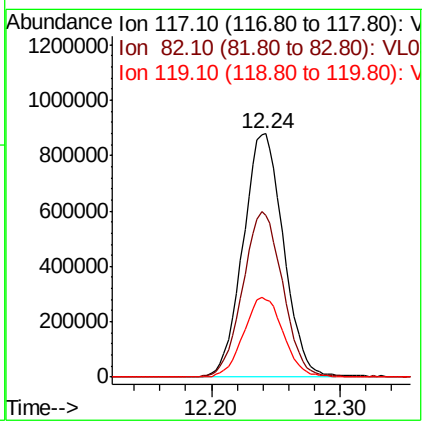


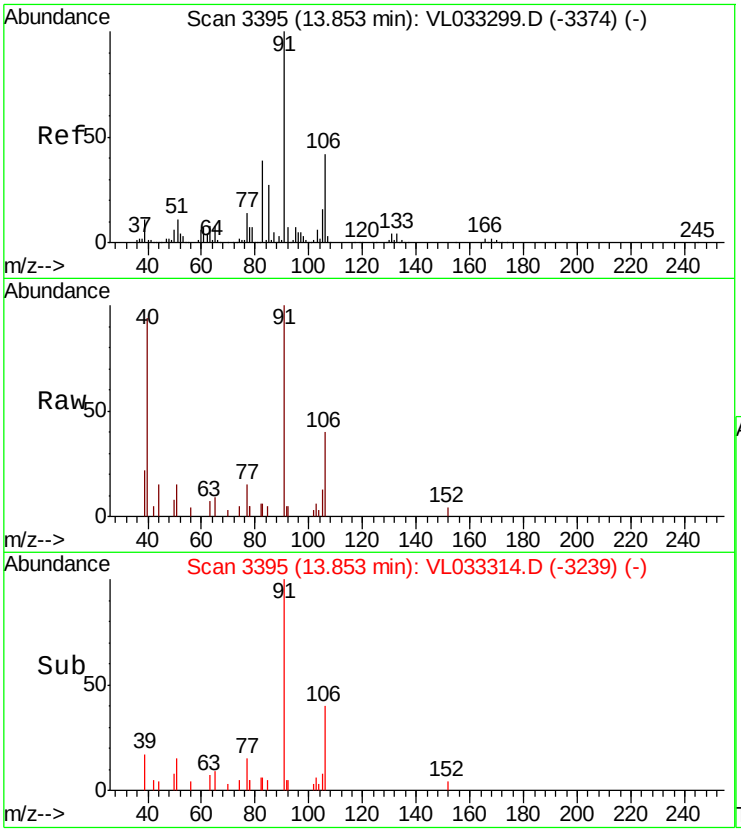




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion:117 Resp: 1917091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.0 | 51.3 | 76.9 |
| 119 | 32.4 | 27.0 | 40.4 |



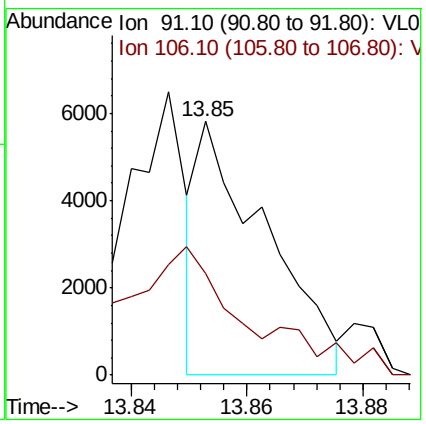


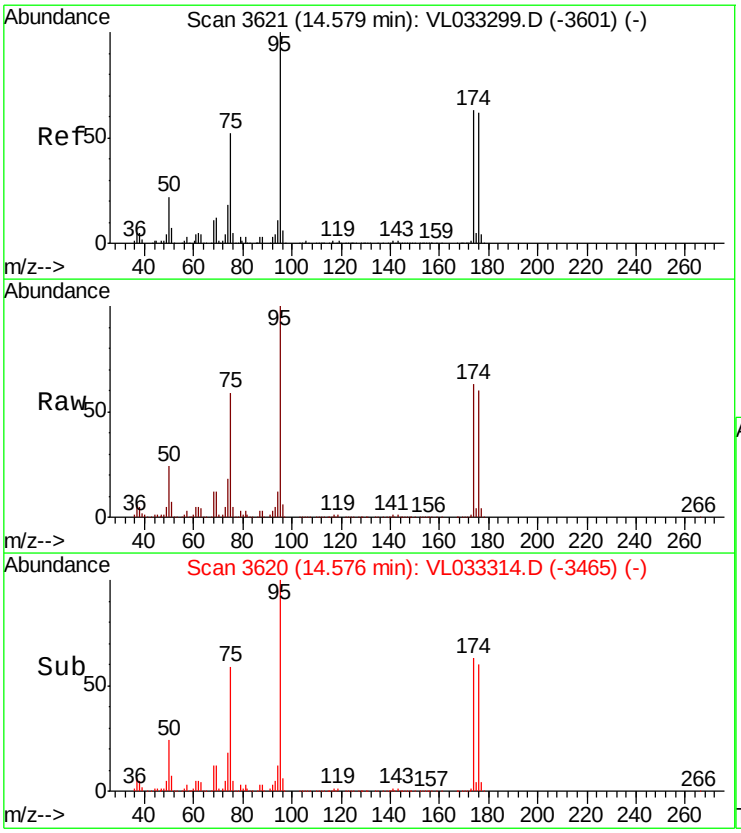

#60
o-Xylene
Concen: 0.021 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
BP-VPB201-AIR-DW-20190305

Tgt Ion: 91 Resp: 4776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 103.4 | 21.4 | 64.3# |




#68
1-Bromo-4-Fluorobenzene
Concen: 10.376 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033314.D
Acq: 14 Mar 2019 13:36

Tgt Ion: 95 Resp: 1519063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.9 | 51.9 | 77.9 |
| 175 | 4.6 | 3.9 | 5.9 |