Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021920\

Quantitation Report (Not Reviewed)

Data File : VL034653.D
Acq On : 19 Feb 2020 20:18
Operator : SY/AP
Sample : L1553-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Quant Time: Feb 20 06:50:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.65 | 49 | 818498 | 10.00 | ppbv | | -0.01 |
| 33) 1,4-Difluorobenzene | 7.17 | 114 | 1726972 | 10.00 | ppbv | | -0.01 |
| 55) Chlorobenzene-d5 | 12.11 | 117 | 1696782 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.44 | 95 | 1509975 | 10.53 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.30% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.01 | 85 | 37291 | 0.207 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 2.94 | 51 | 49228 | 0.498 | ppbv | # | 86 |
| 4) Chloromethane | 3.10 | 50 | 27271 | 0.451 | ppbv | | 99 |
| 9) Propene | 3.16 | 41 | 1065106 | 27.660 | ppbv | | 86 |
| 10) Heptane | 8.12 | 43 | 8820 | 0.091 | ppbv | # | 74 |
| 11) Trichlorofluoromethane | 3.92 | 101 | 47832 | 0.292 | ppbv | | 90 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101 | 5832 | 0.055 | ppbv | # | 35 |
| 13) Ethanol | 3.57 | 45 | 1612504 | 156.332 | ppbv | | 99 |
| 15) Acetone | 3.82 | 43 | 602155 | 5.006 | ppbv | # | 89 |
| 16) 1,3-Butadiene | 3.31 | 39 | 181801 | 3.806 | ppbv | # | 11 |
| 19) Isopropyl Alcohol | 3.94 | 45 | 128580 | 1.832 | ppbv | # | 91 |
| 20) Methylene Chloride | 4.31 | 84 | 155693 | 3.399 | ppbv | | 94 |
| 23) Vinyl Acetate | 5.04 | 43 | 25814 | 0.188 | ppbv | # | 1 |
| 25) Ethyl Acetate | 5.67 | 43 | 142614 | 0.732 | ppbv | # | 82 |
| 26) Hexane | 5.67 | 57 | 175733 | 2.154 | ppbv | # | 42 |
| 29) Chloroform | 5.74 | 83 | 13466 | 0.093 | ppbv | | 85 |
| 30) Cyclohexane | 7.13 | 84 | 3366 | 0.056 | ppbv | # | 1 |
| 34) 2-Butanone | 5.23 | 43 | 28315 | 0.226 | ppbv | | 96 |
| 36) Benzene | 6.89 | 78 | 65202 | 0.425 | ppbv | # | 89 |
| 37) 1,2-Dichloroethane | 6.29 | 62 | 6466 | 0.050 | ppbv | # | 86 |
| 39) 1,2-Dichloropropane | 7.17 | 63 | 506882 | 7.962 | ppbv | # | 19 |
| 53) Toluene | 9.82 | 91 | 662633 | 3.928 | ppbv | | 97 |
| 58) Ethyl Benzene | 12.74 | 91 | 40988 | 0.181 | ppbv | | 99 |
| 59) m/p-Xylene | 13.01 | 91 | 76122 | 0.379 | ppbv | # | 32 |
| 60) o-Xylene | 13.72 | 91 | 30355 | 0.151 | ppbv | # | 48 |
| 61) Styrene | 13.55 | 104 | 6456 | 0.048 | ppbv | # | 52 |
| 80) Naphthalene,2-methyl- | 25.01 | 142 | 3649 | 0.050 | ppbv | # | 84 |

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

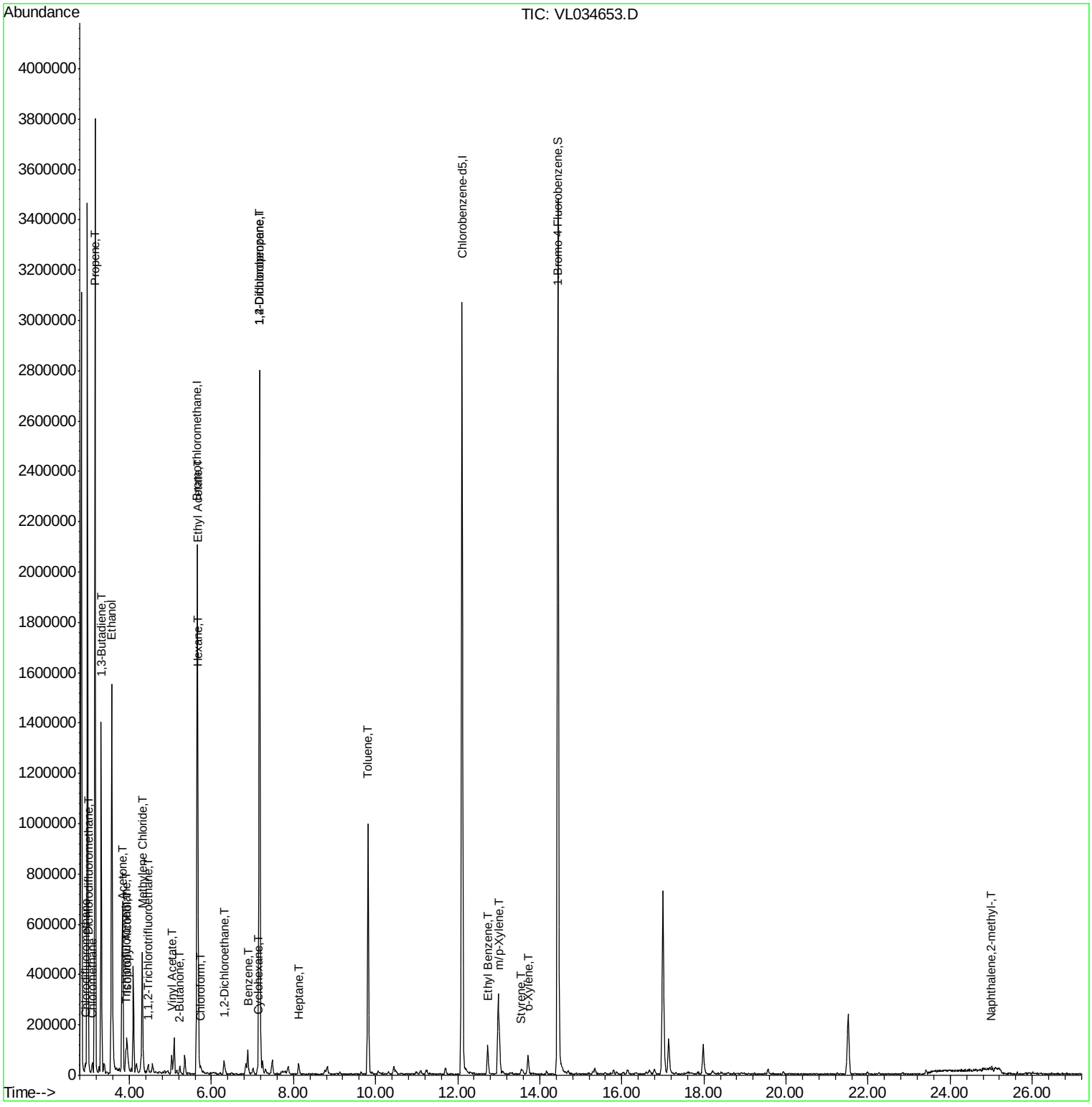
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021920\

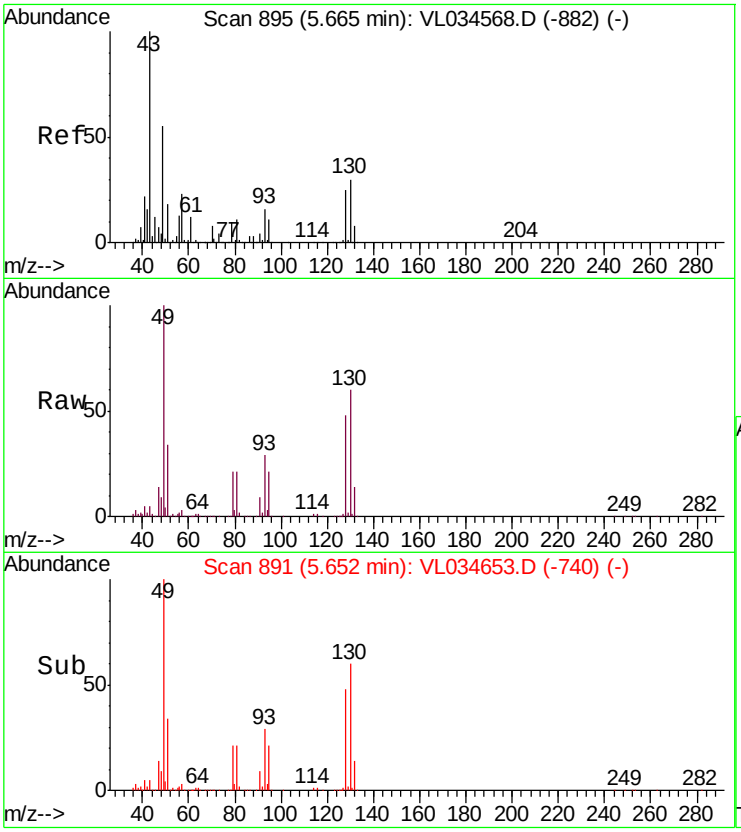
Quantitation Report (Not Reviewed)

Data File : VL034653.D
Acq On : 19 Feb 2020 20:18
Operator : SY/AP
Sample : L1553-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Quant Time: Feb 20 06:50:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration



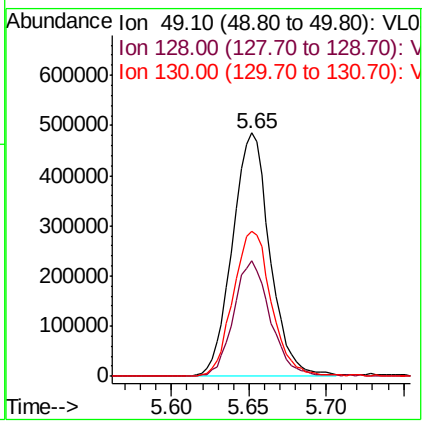


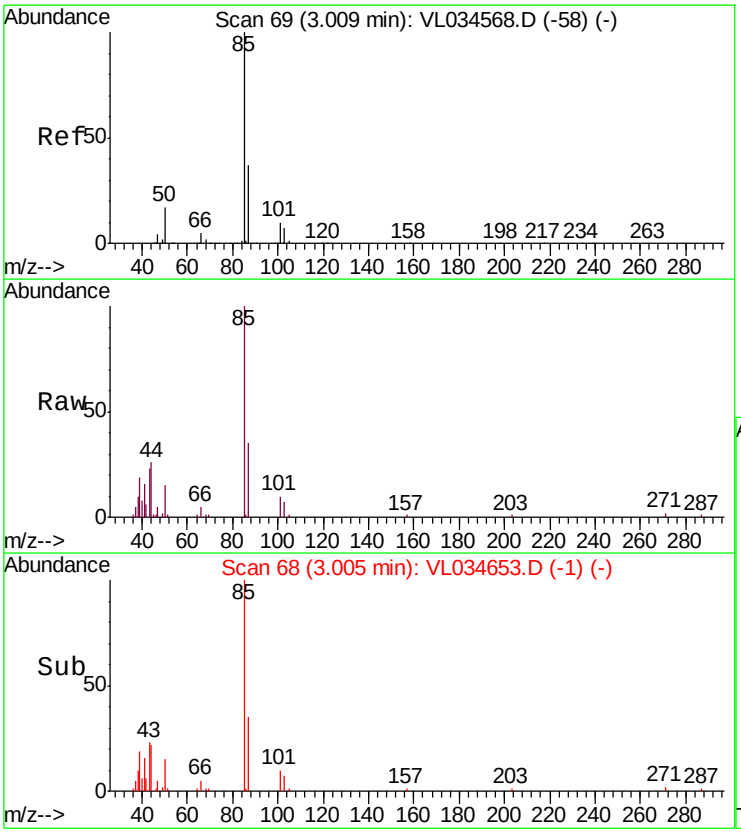

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 49 Resp: 818498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.7 | 22.7 | 68.1 |
| 130 | 61.3 | 28.6 | 85.8 |

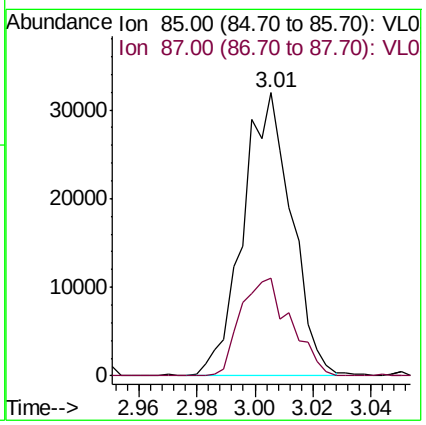


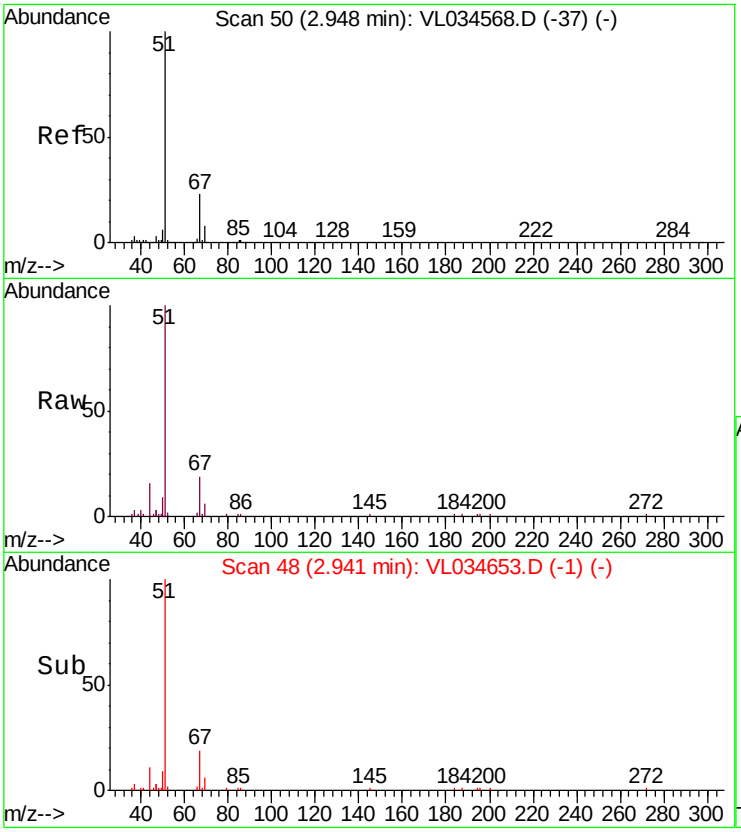




#2
Dichlorodifluoromethane
Concen: 0.207 ppbv
RT: 3.01 min Scan# 68
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 85 Resp: 37291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.7 | 29.5 | 44.3 |



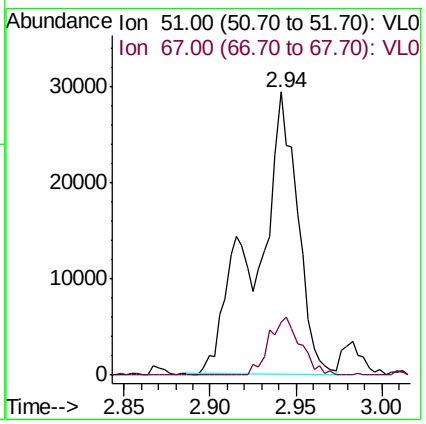


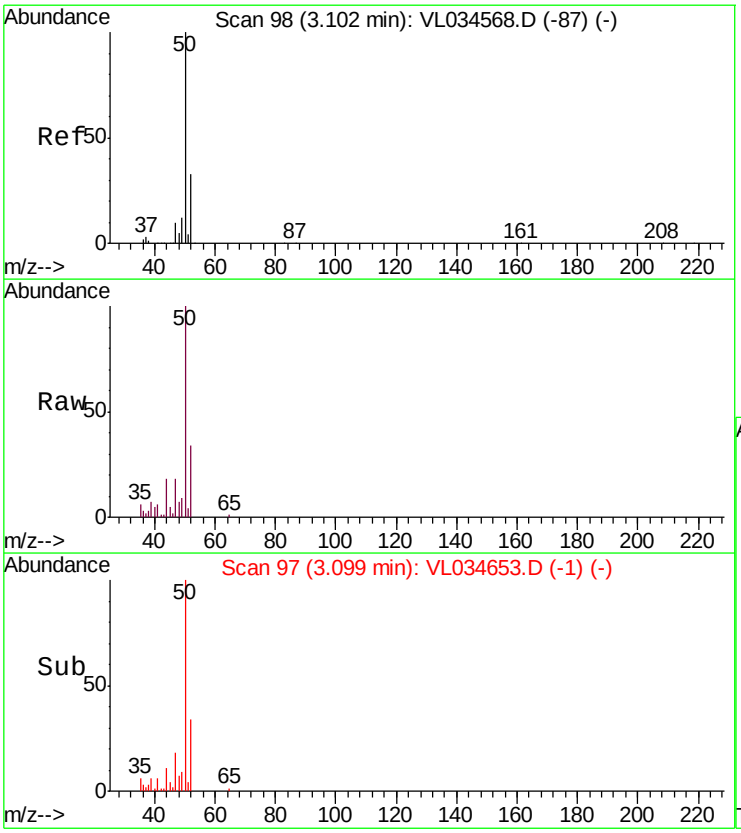

#3
Chlorodifluoromethane
Concen: 0.498 ppbv
RT: 2.94 min Scan# 48
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Tgt Ion: 51 Resp: 49228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 15.7 | 17.8 | 26.8# |

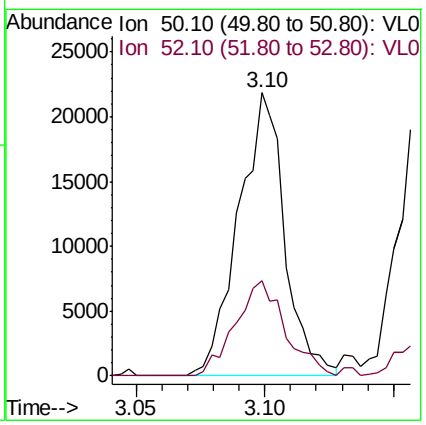


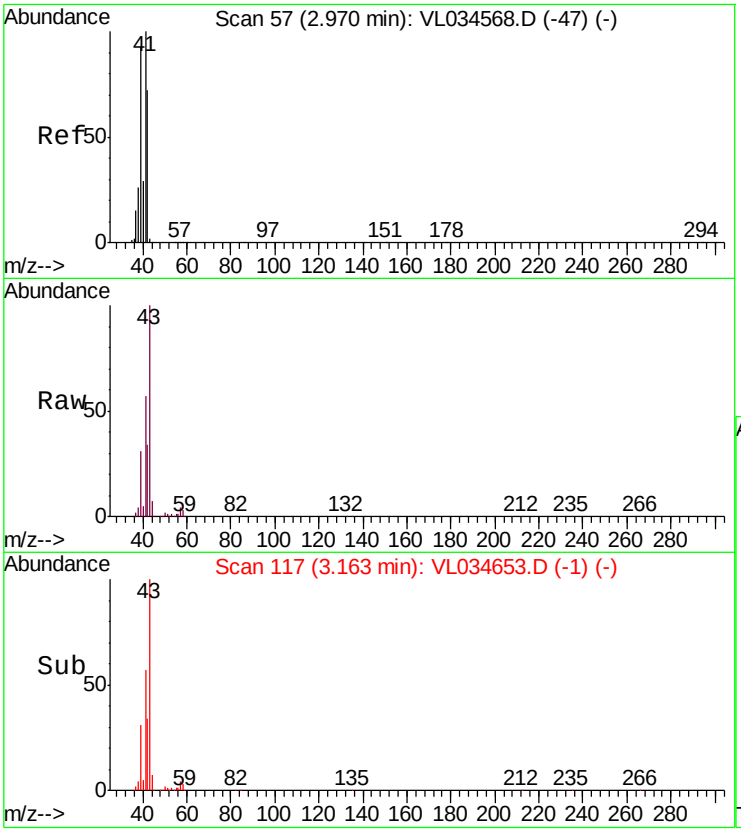




#4
Chloromethane
Concen: 0.451 ppbv
RT: 3.10 min Scan# 97
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 50 Resp: 27271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.8 | 26.6 | 39.8 |



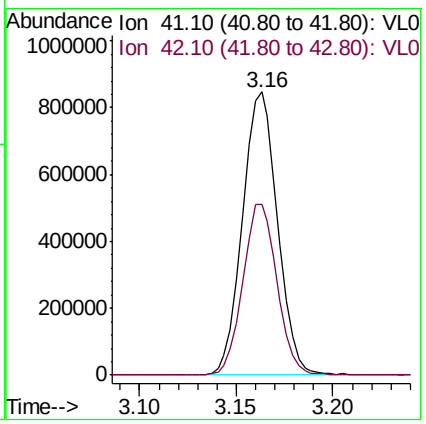


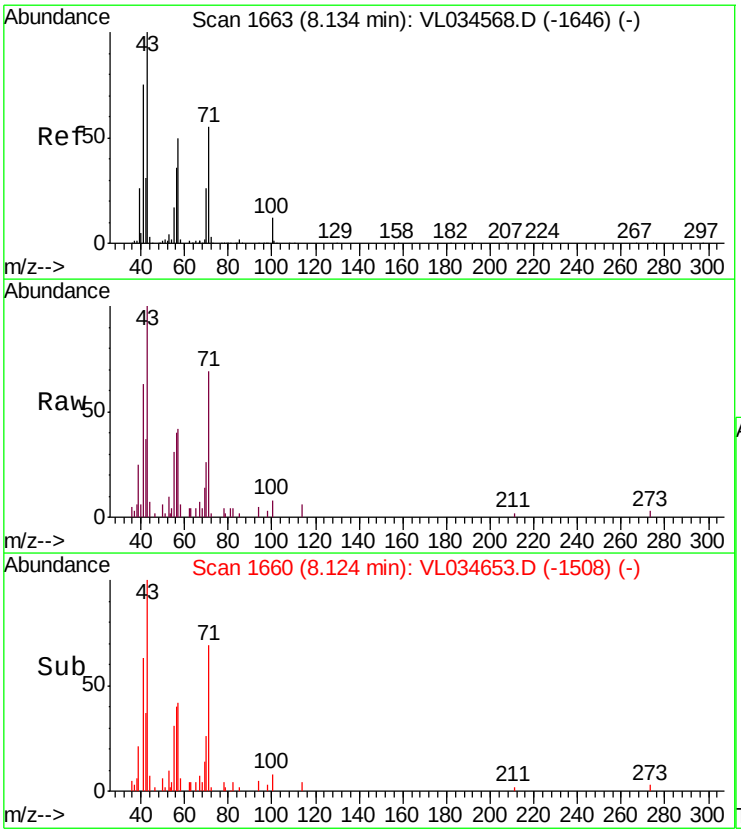

#9
Propene
Concen: 27.660 ppbv
RT: 3.16 min Scan# 117
Delta R.T. 0.19 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 41 Resp: 1065106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.4 | 57.0 | 85.4 |

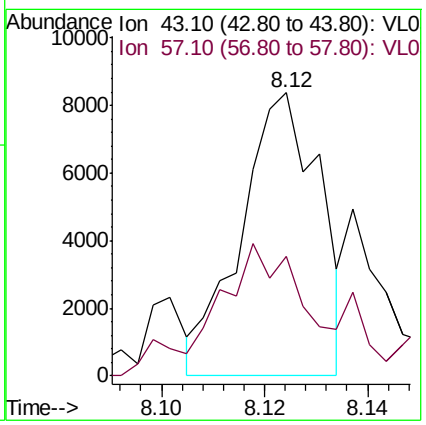


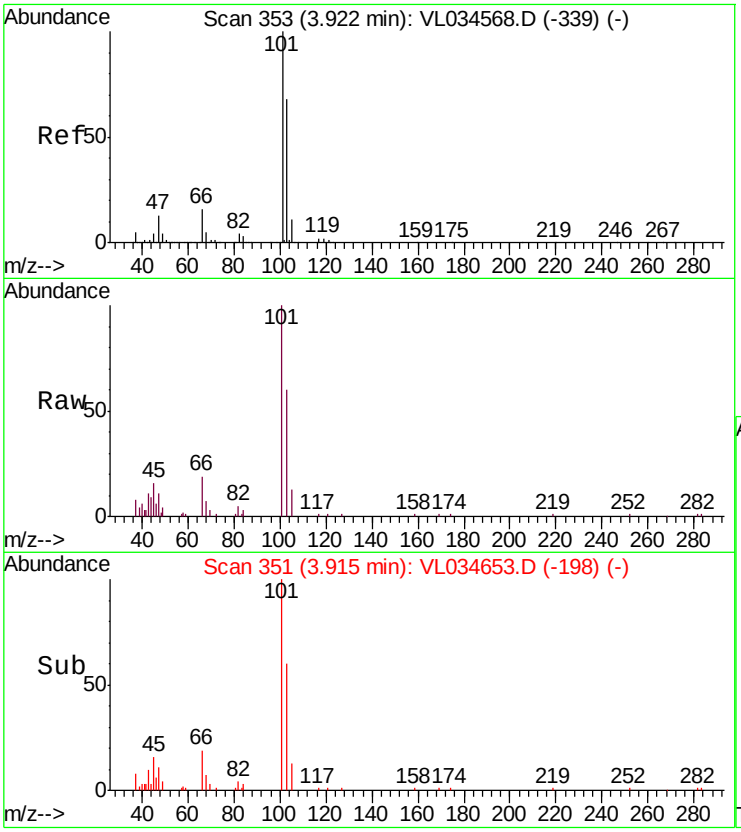




#10
Heptane
Concen: 0.091 ppbv
RT: 8.12 min Scan# 1660
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 43 Resp: 8820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 69.5 | 41.2 | 61.8# |



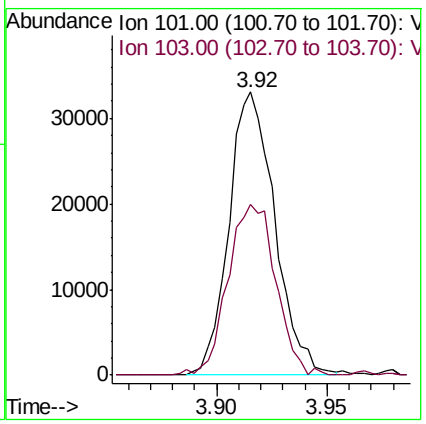


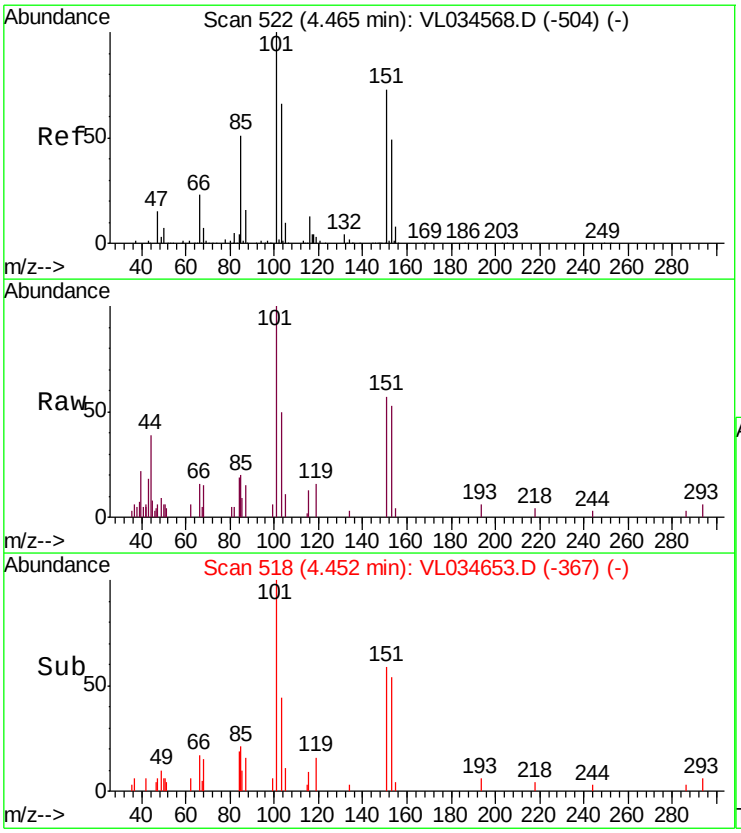

#11
Trichlorofluoromethane
Concen: 0.292 ppbv
RT: 3.92 min Scan# 351
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion:101 Resp: 47832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.2 | 54.4 | 81.6 |

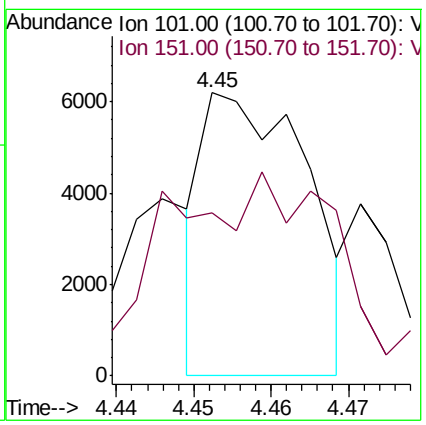


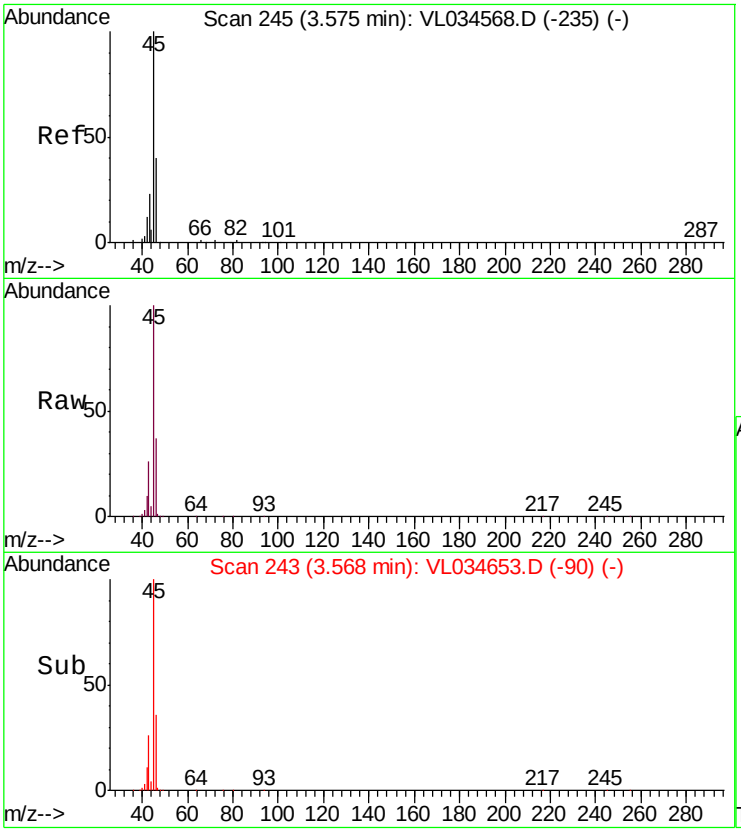




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.055 ppbv
RT: 4.45 min Scan# 518
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion:101 Resp: 5832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 125.2 | 57.0 | 85.6# |



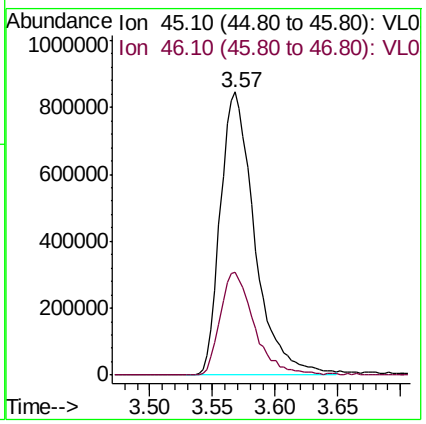


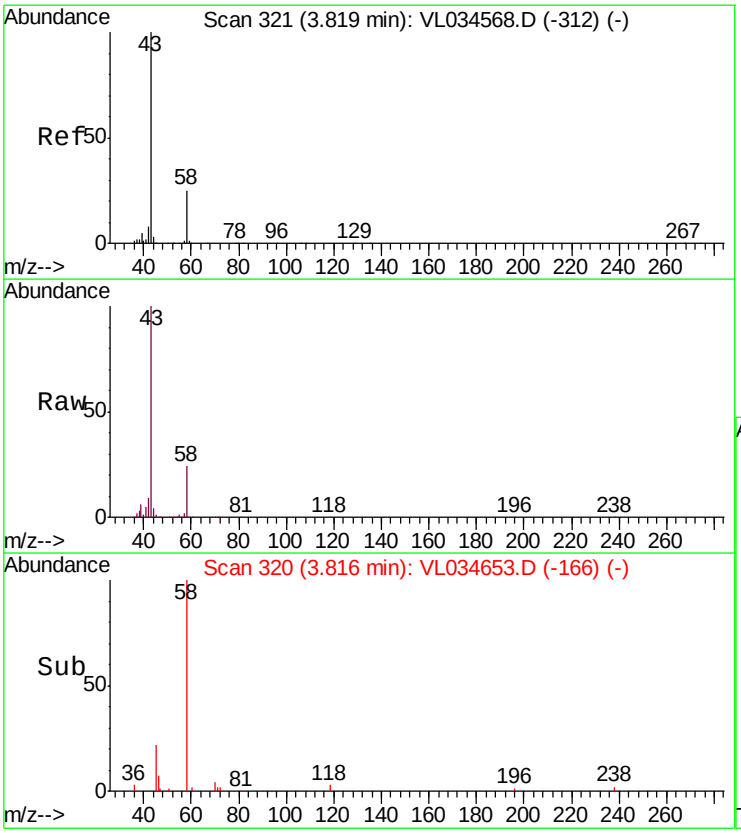

#13
Ethanol
Concen:  156.332 ppbv
RT: 3.57 min  Scan# 243
Delta R.T.  -0.01 min
Lab File:  VL034653.D
Acq: 19 Feb 2020  20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 45 Resp: 1612504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.4 | 14.8 | 59.2 |

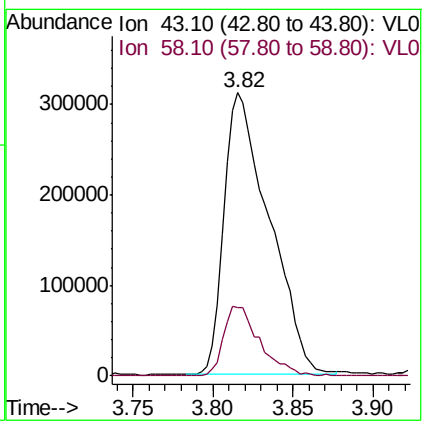


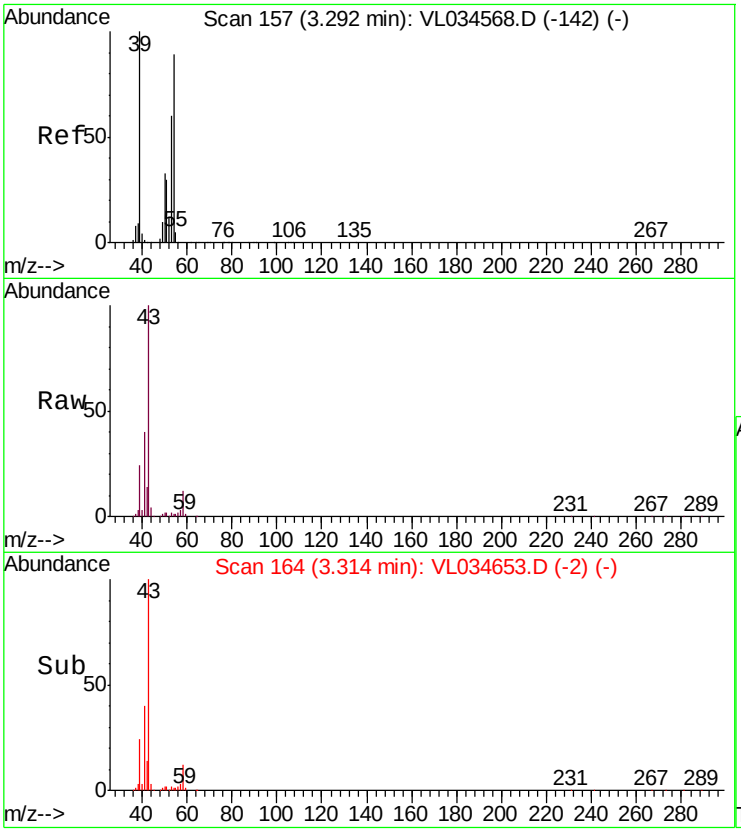




#15
Acetone
Concen:  5.006 ppbv
RT: 3.82 min  Scan# 320
Delta R.T.  -0.00 min
Lab File:  VL034653.D
Acq: 19 Feb 2020  20:18

Tgt Ion: 43 Resp:  602155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.8 | 20.3 | 30.5# |



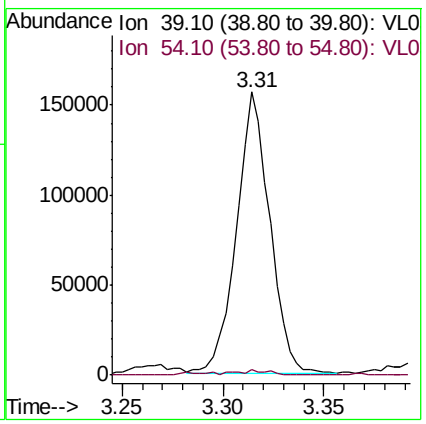


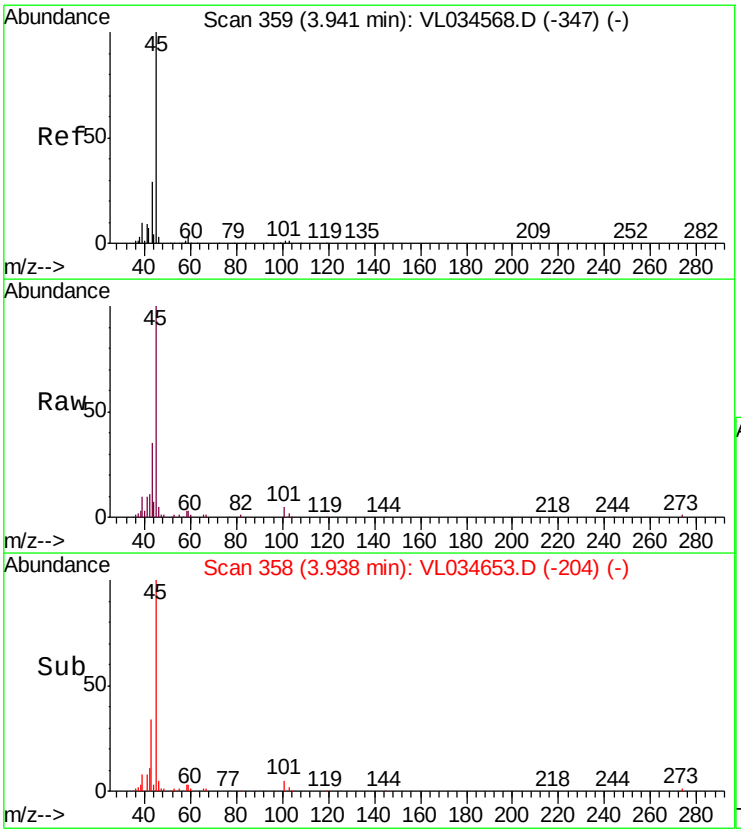

#16
1,3-Butadiene
Concen: 3.806 ppbv
RT: 3.31 min Scan# 164
Delta R.T. 0.02 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 39 Resp: 181801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 2.7 | 66.7 | 100.1# |

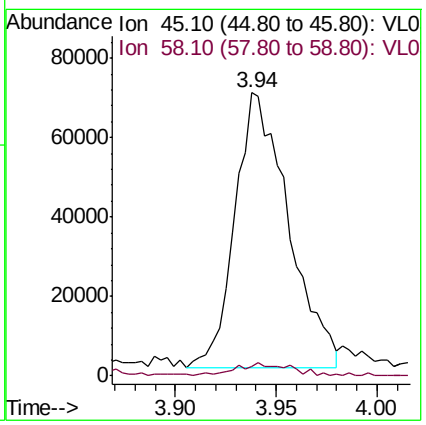


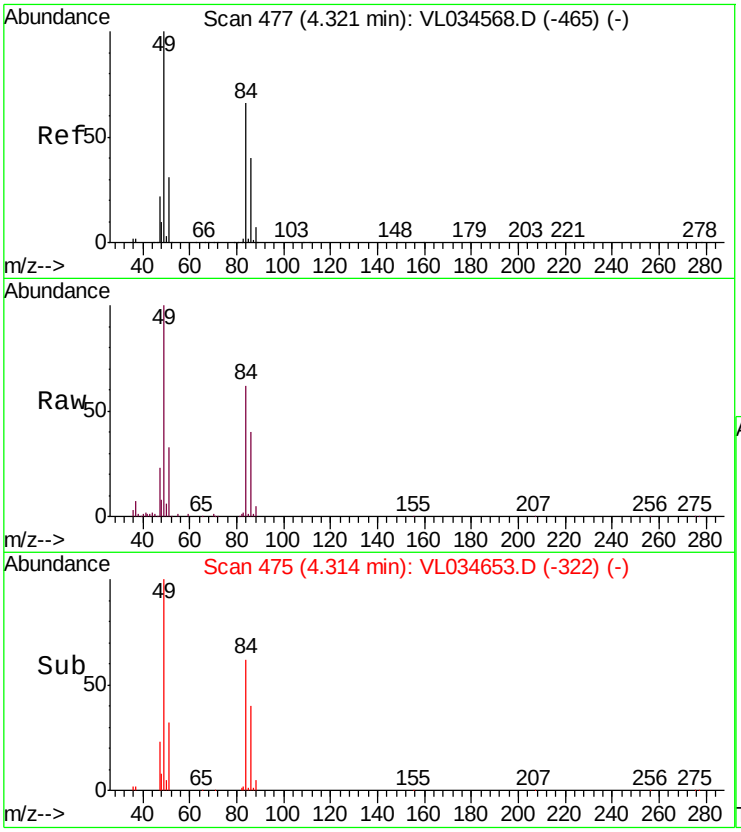




#19
Isopropyl Alcohol
Concen: 1.832 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 45 Resp: 128580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 5.4 | 1.7 | 2.5# |



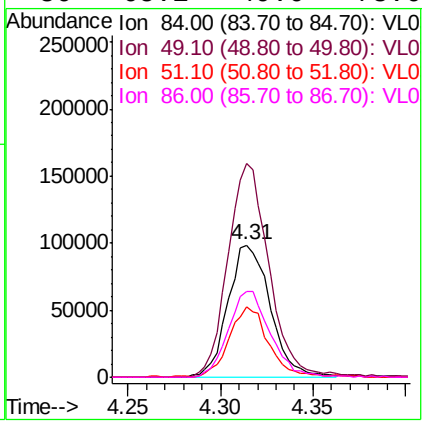


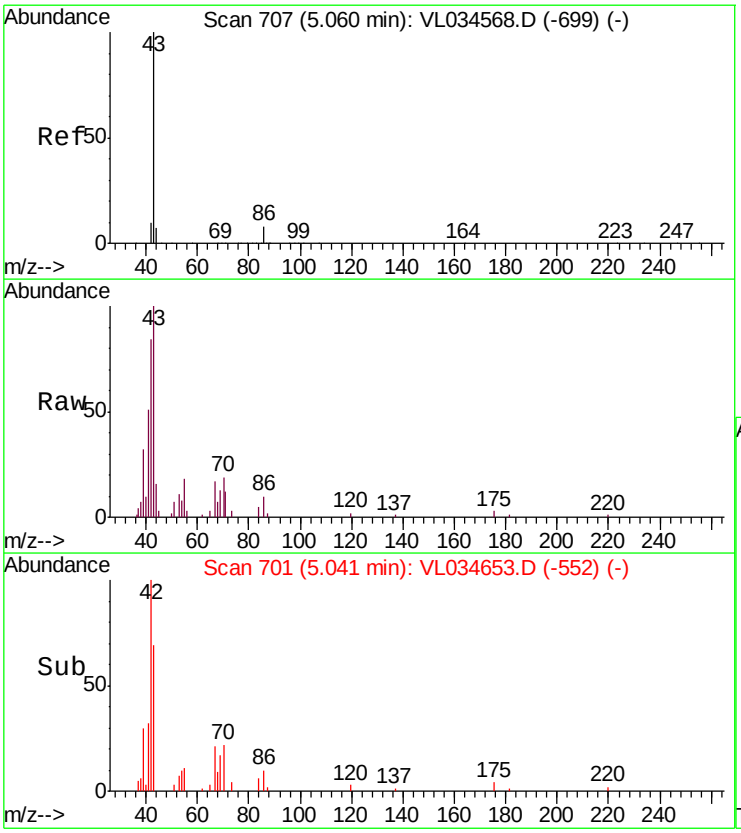

#20
Methylene Chloride
Concen: 3.399 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Tgt Ion: 84 Resp: 155693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 161.0 | 122.4 | 183.6 |
| 51 | 52.5 | 38.6 | 57.8 |
| 86 | 65.1 | 49.0 | 73.6 |

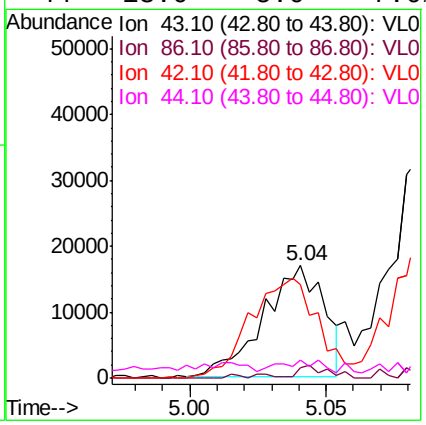


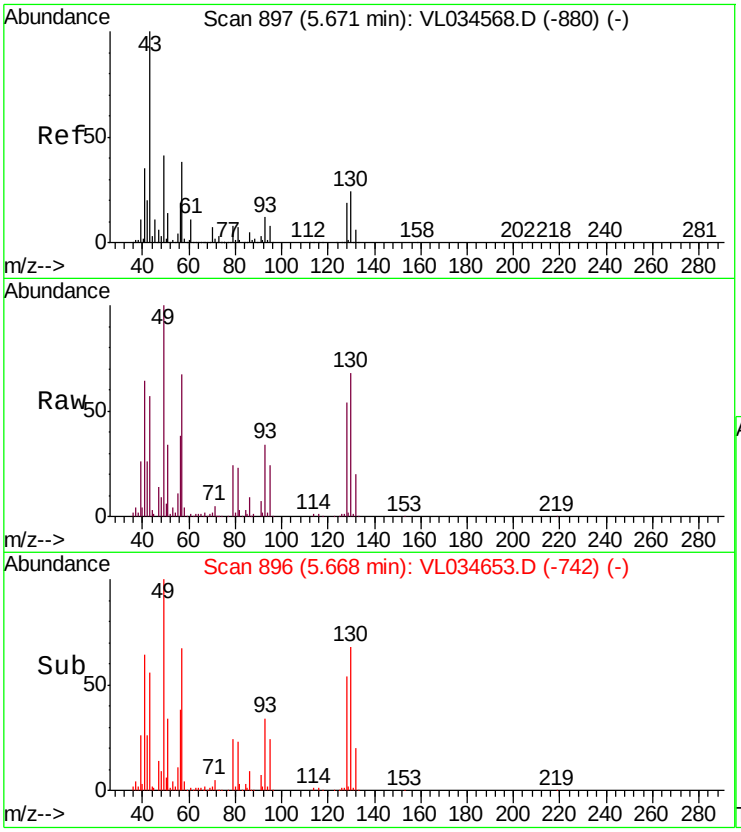




#23
Vinyl Acetate
Concen: 0.188 ppbv
RT: 5.04 min Scan# 701
Delta R.T. -0.02 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 43 Resp: 25814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.9 | 5.9 | 8.9# |
| 42 | 96.1 | 8.8 | 13.2# |
| 44 | 13.0 | 5.0 | 7.6# |



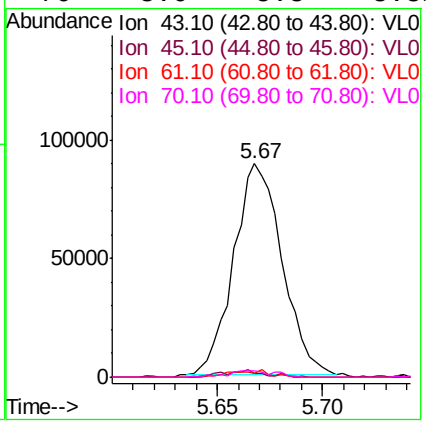


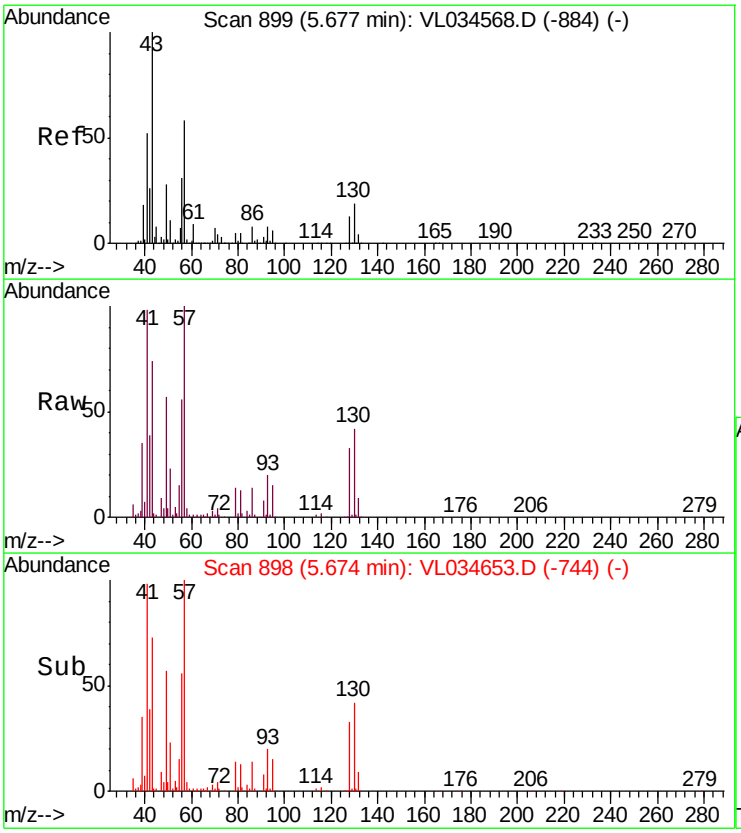

#25
Ethyl Acetate
Concen: 0.732 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 43 Resp: 142614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 3.0 | 8.5 | 12.7# |
| 61 | 2.5 | 7.8 | 11.6# |
| 70 | 3.0 | 5.8 | 8.8# |

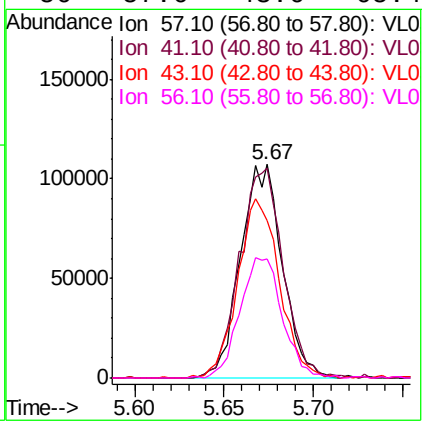


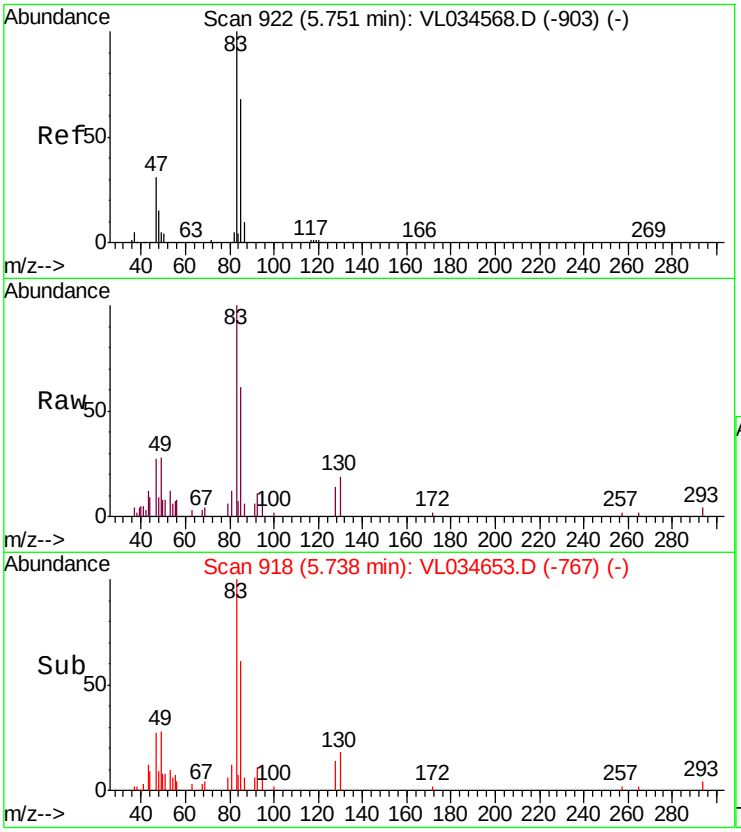




#26
Hexane
Concen: 2.154 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 57 Resp: 175733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 102.5 | 76.2 | 114.2 |
| 43 | 83.6 | 189.9 | 284.9# |
| 56 | 57.6 | 43.6 | 65.4 |



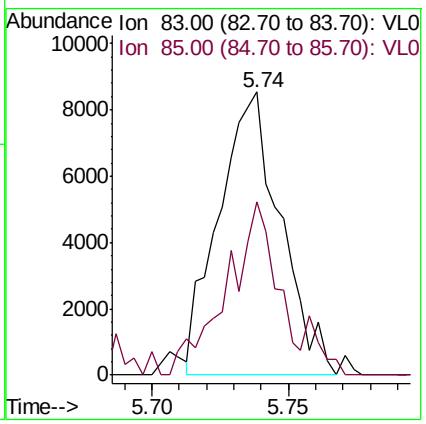


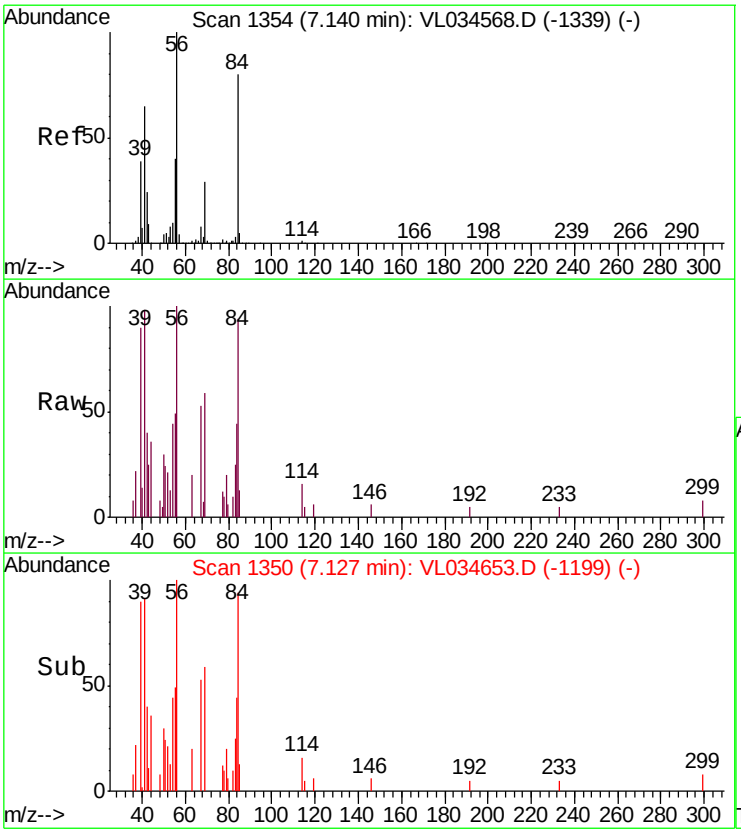

#29
Chloroform
Concen: 0.093 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 83 Resp: 13466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 55.5 | 54.0 | 81.0 |

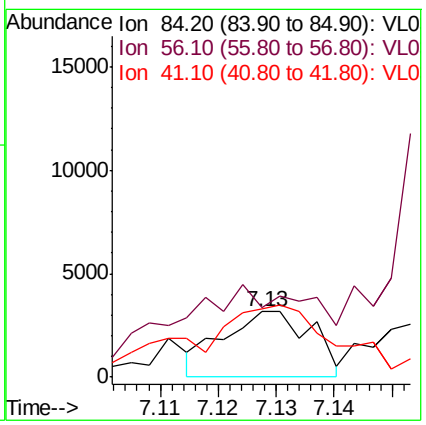


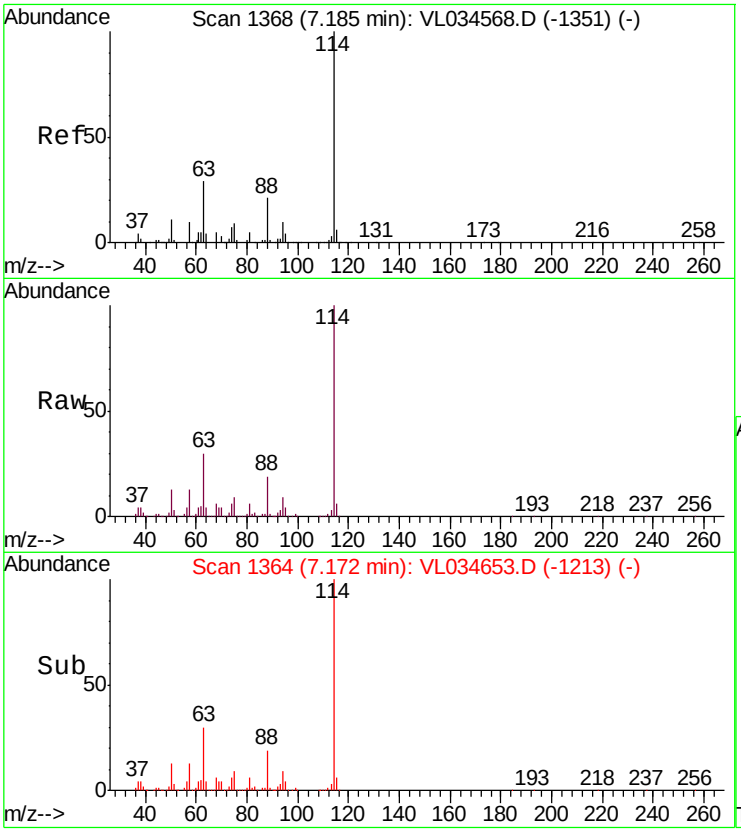




#30
Cyclohexane
Concen: 0.056 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 84 Resp: 3366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 110.5 | 165.7# |
| 41 | 234.9 | 71.9 | 107.9# |



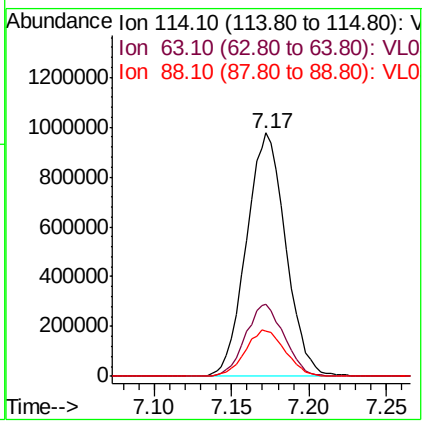


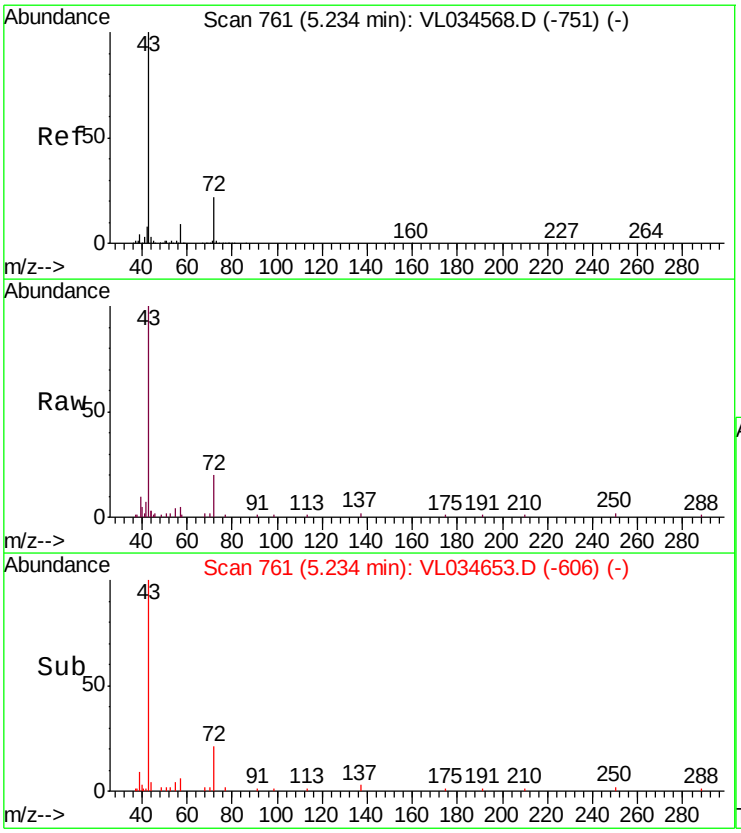

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion:114 Resp: 1726972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 29.4 | 24.1 | 36.1 |
| 88 | 19.3 | 15.9 | 23.9 |

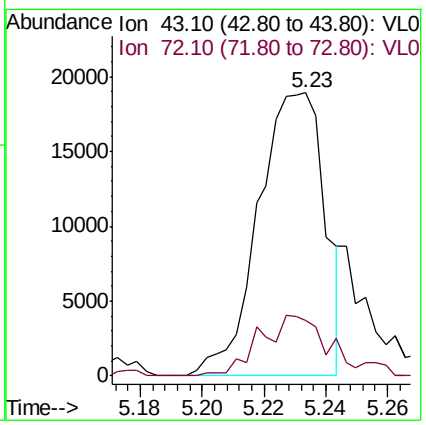


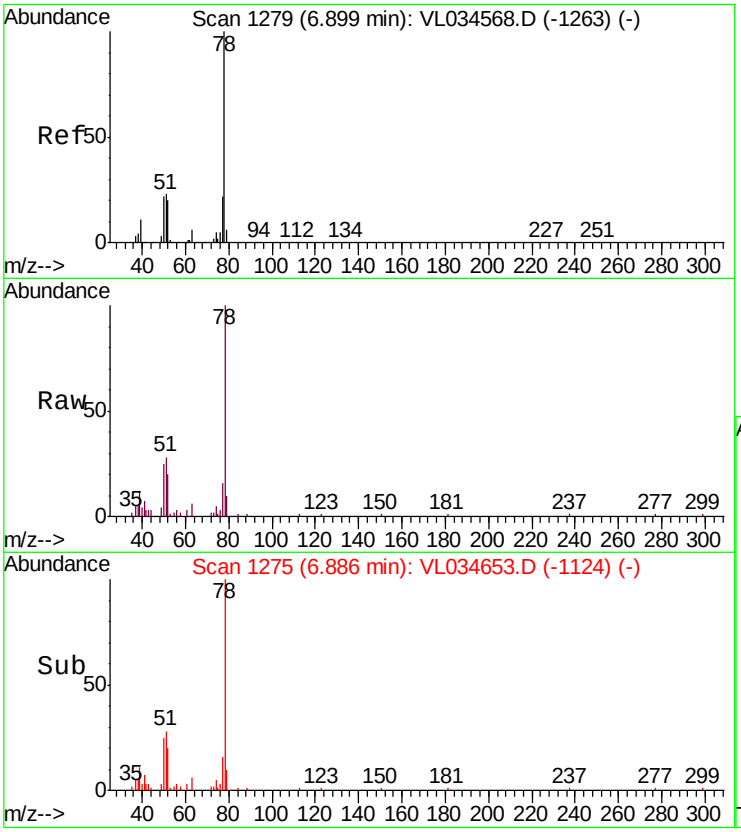




#34
2-Butanone
Concen: 0.226 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 43 Resp: 28315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.3 | 17.2 | 25.8 |



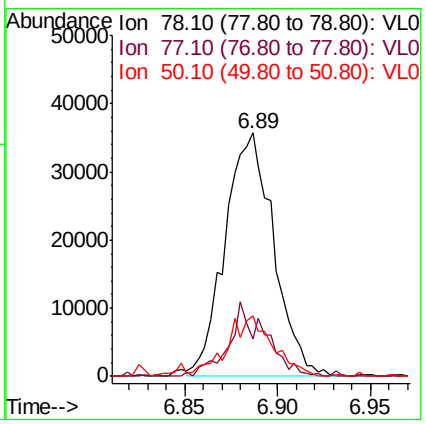


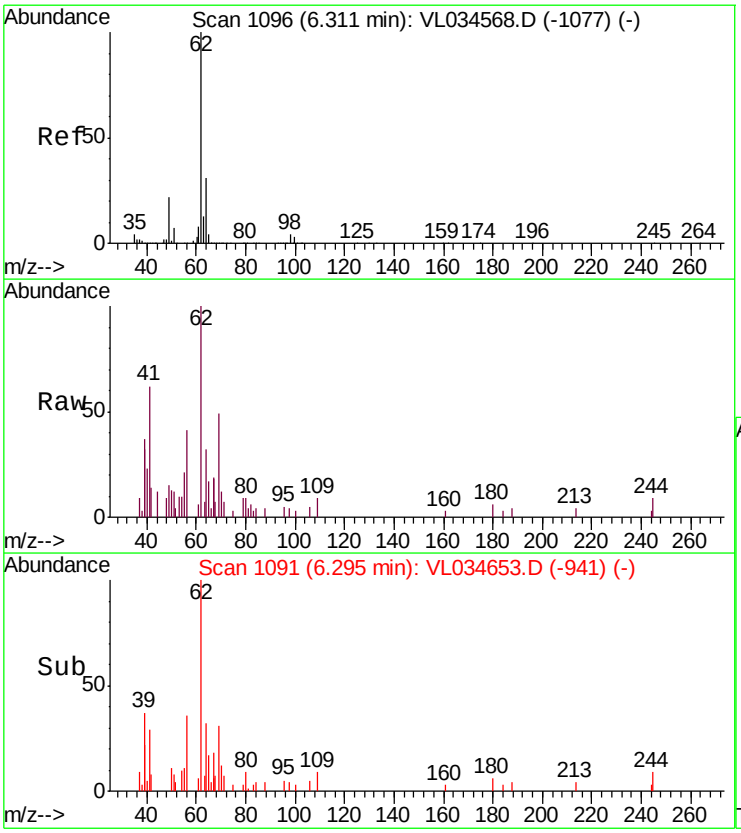

#36
Benzene
Concen: 0.425 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 78 Resp: 65202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 14.0 | 17.3 | 25.9# |
| 50 | 24.2 | 17.4 | 26.2 |

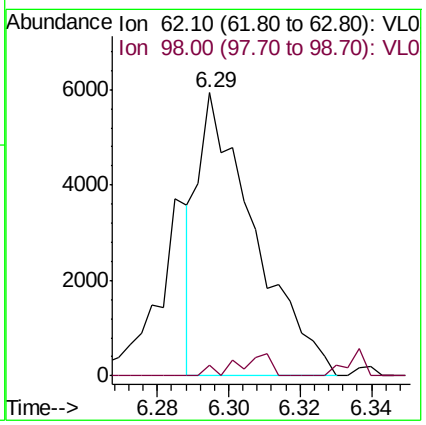


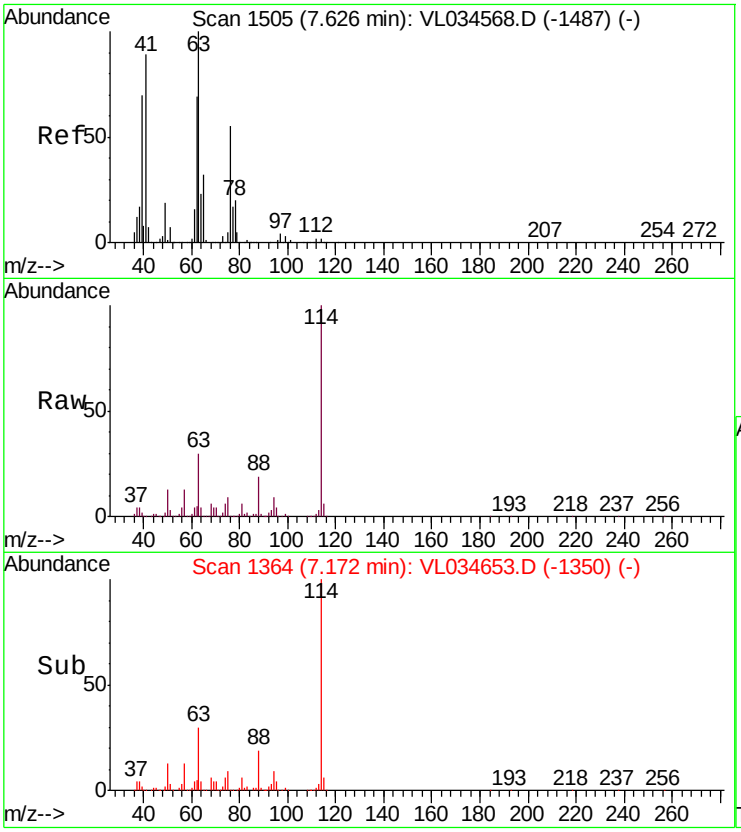




#37
1,2-Dichloroethane
Concen: 0.050 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.02 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 62 Resp: 6466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 3.7 | 5.5# |



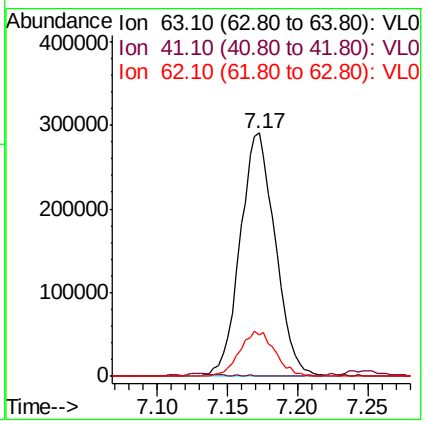


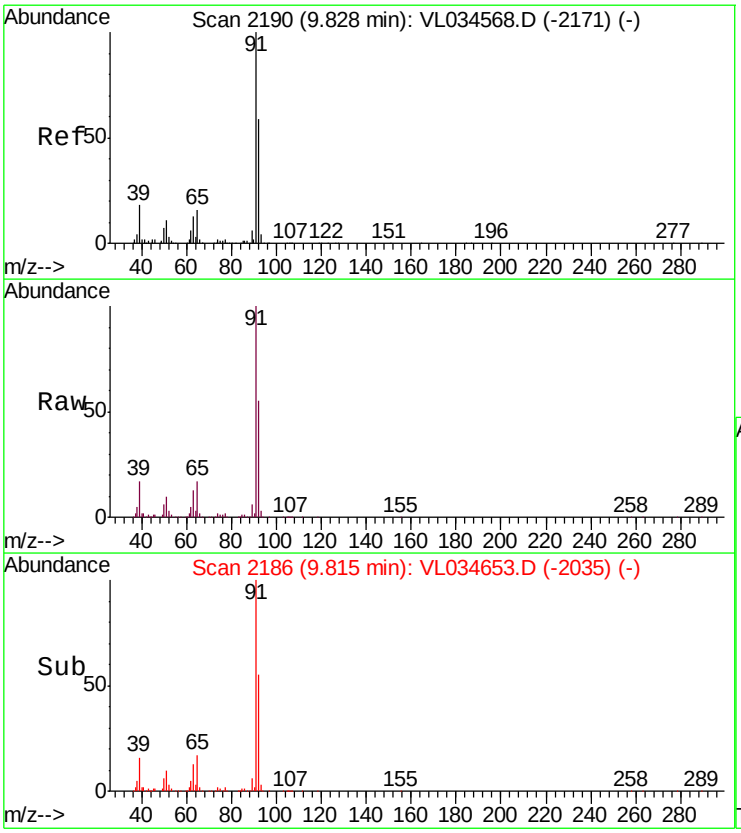

#39
1,2-Dichloropropane
Concen: 7.962 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.45 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Tgt Ion: 63 Resp: 506882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 71.0 | 106.4# |
| 62 | 16.9 | 55.4 | 83.0# |

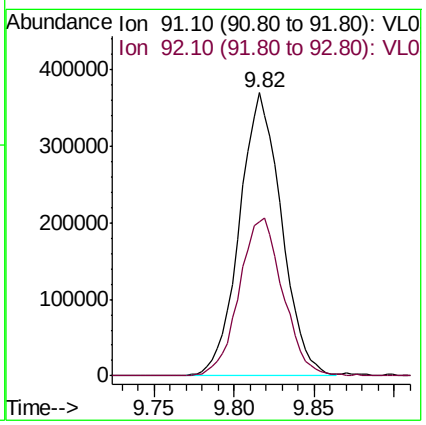


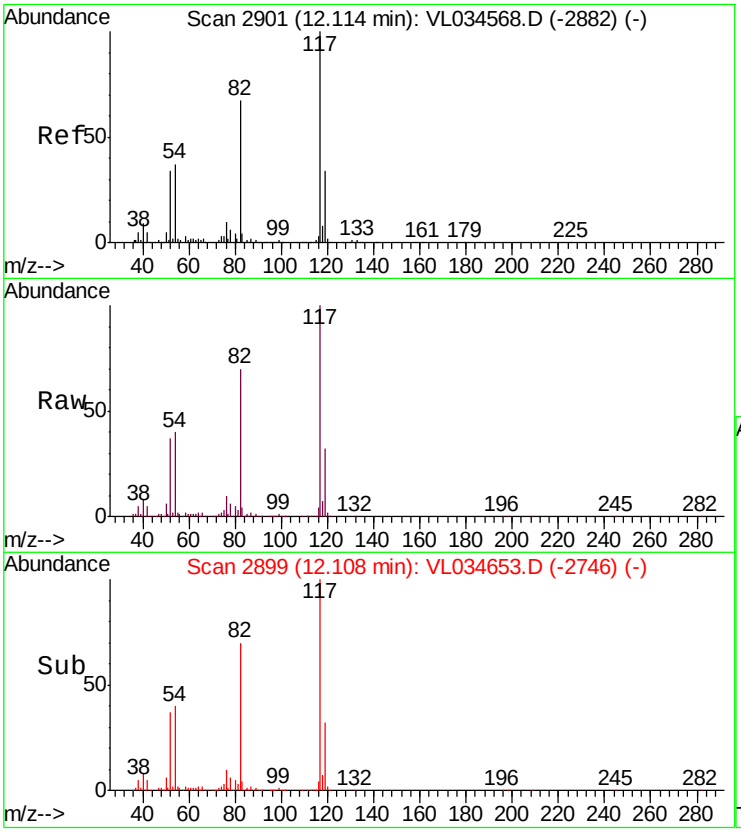




#53
Toluene
Concen: 3.928 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 91 Resp: 662633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.2 | 48.2 | 72.2 |



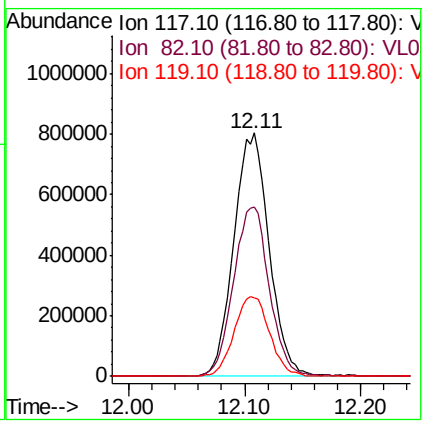


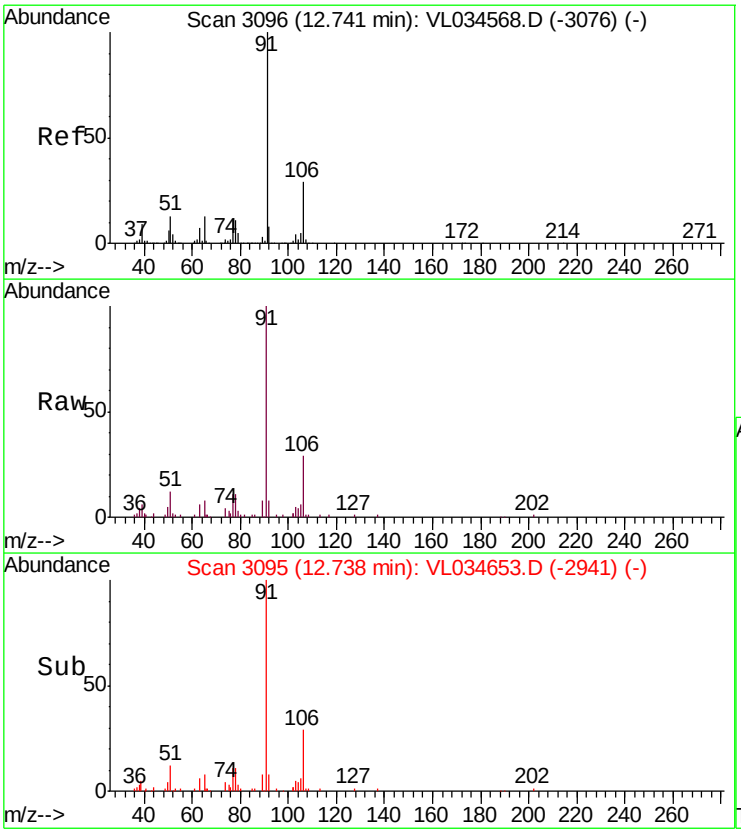

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Tgt Ion:117 Resp: 1696782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.9 | 54.2 | 81.4 |
| 119 | 33.2 | 26.1 | 39.1 |

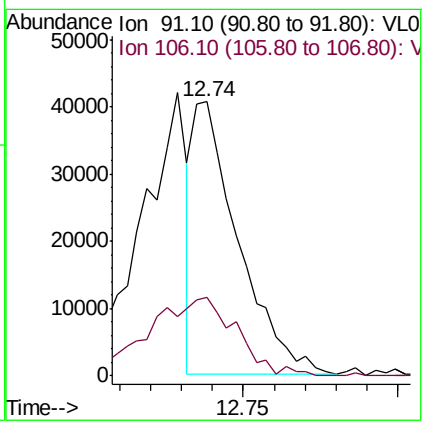


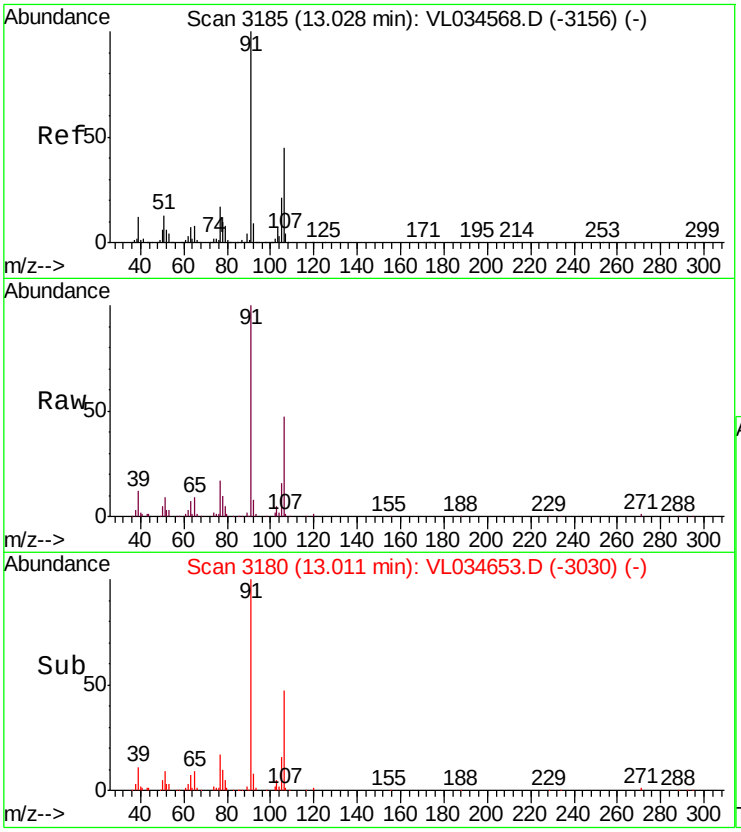




#58
Ethyl Benzene
Concen: 0.181 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 91 Resp: 40988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.8 | 23.3 | 34.9 |



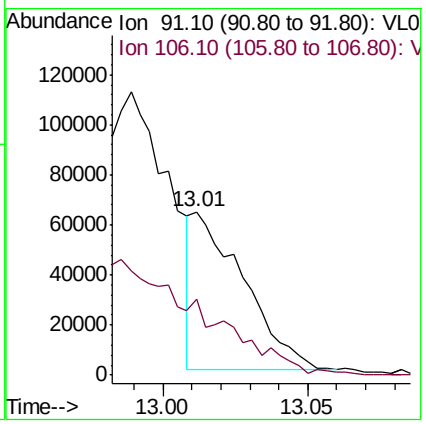


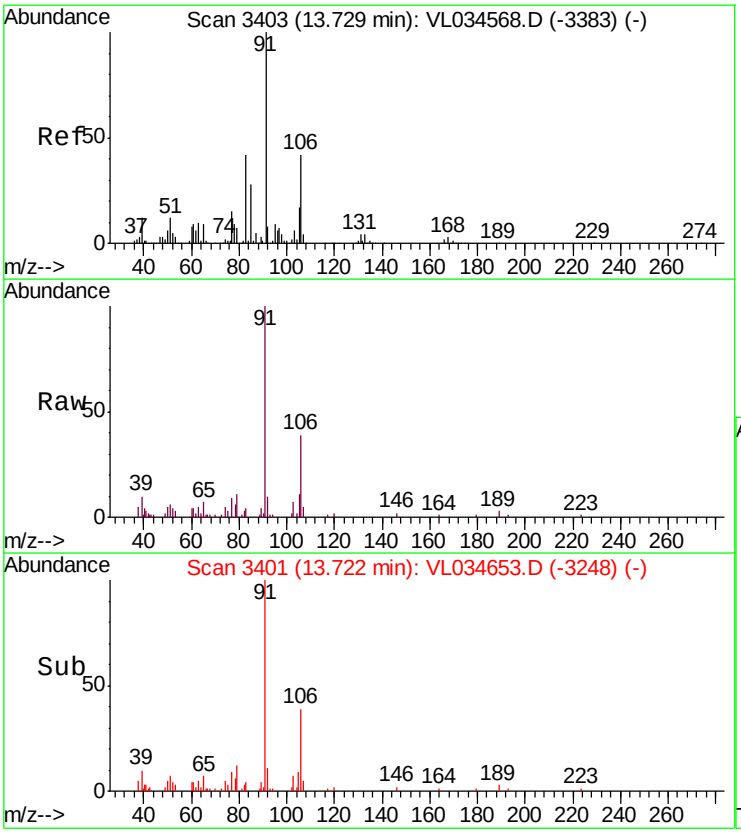

#59
m/p-Xylene
Concen: 0.379 ppbv
RT: 13.01 min Scan# 3180
Delta R.T. -0.02 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion: 91 Resp: 76122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.3 | 52.9# |

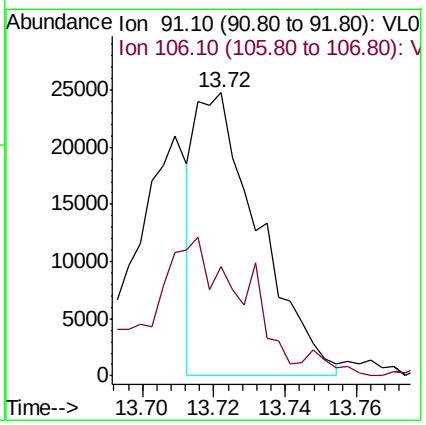


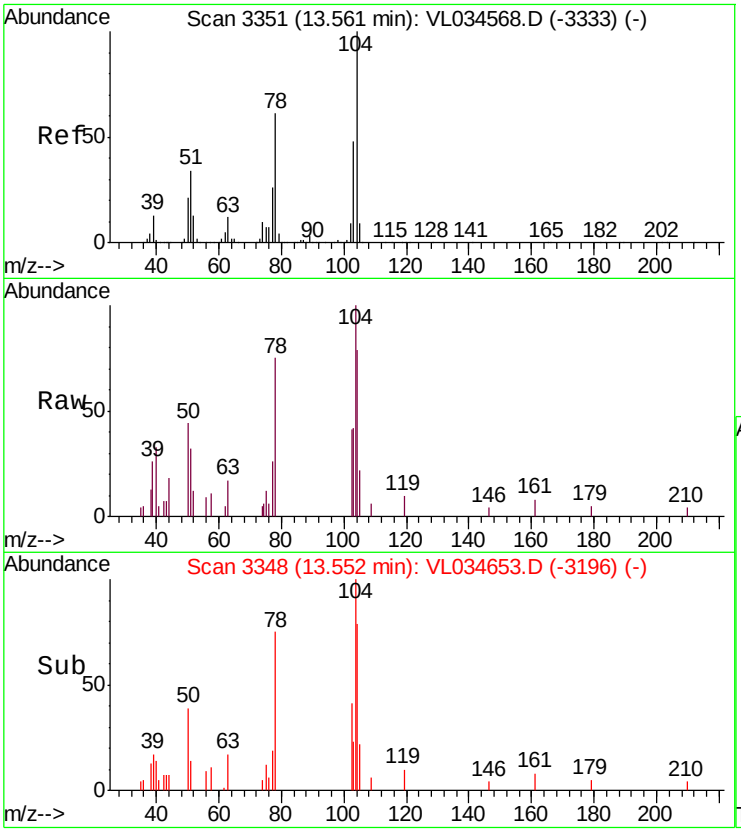




#60
o-Xylene
Concen: 0.151 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 91 Resp: 30355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 76.6 | 21.6 | 65.0# |



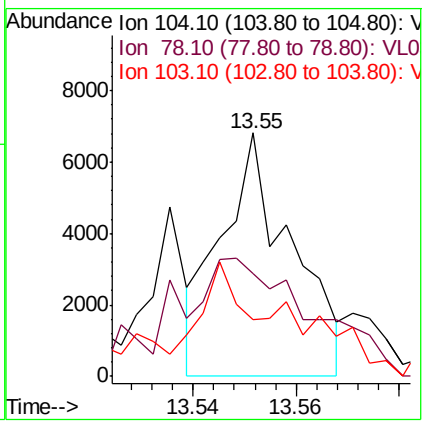


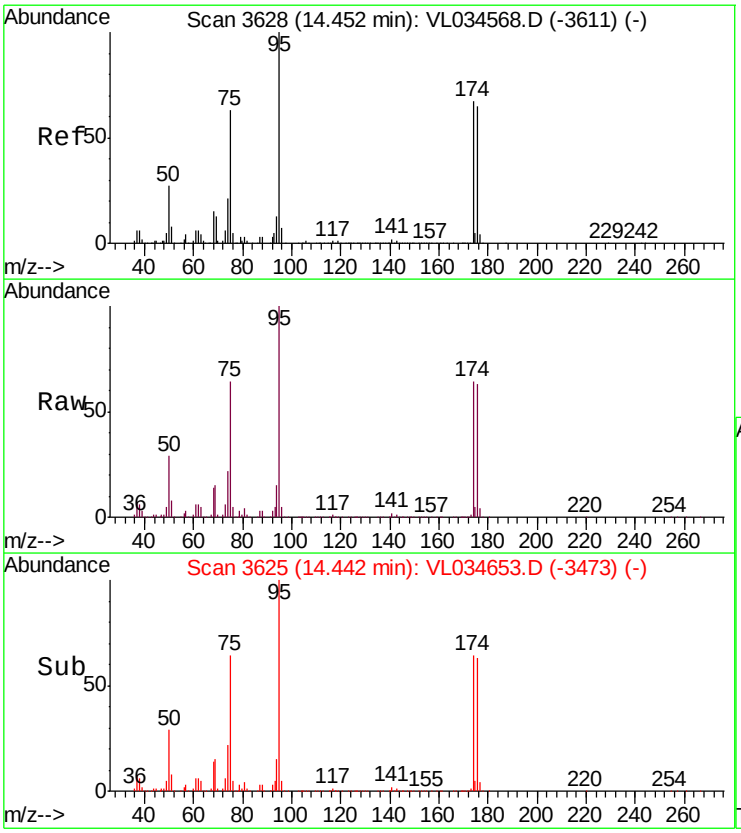

#61
Styrene
Concen: 0.048 ppbv
RT: 13.55 min Scan# 3348
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :** MSVOA_L
**ClientSampleId :** IA-1

Tgt Ion:104 Resp: 6456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 98.3 | 47.0 | 70.6# |
| 103 | 76.7 | 38.5 | 57.7# |

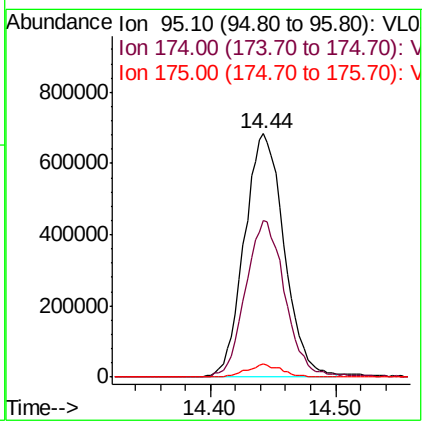


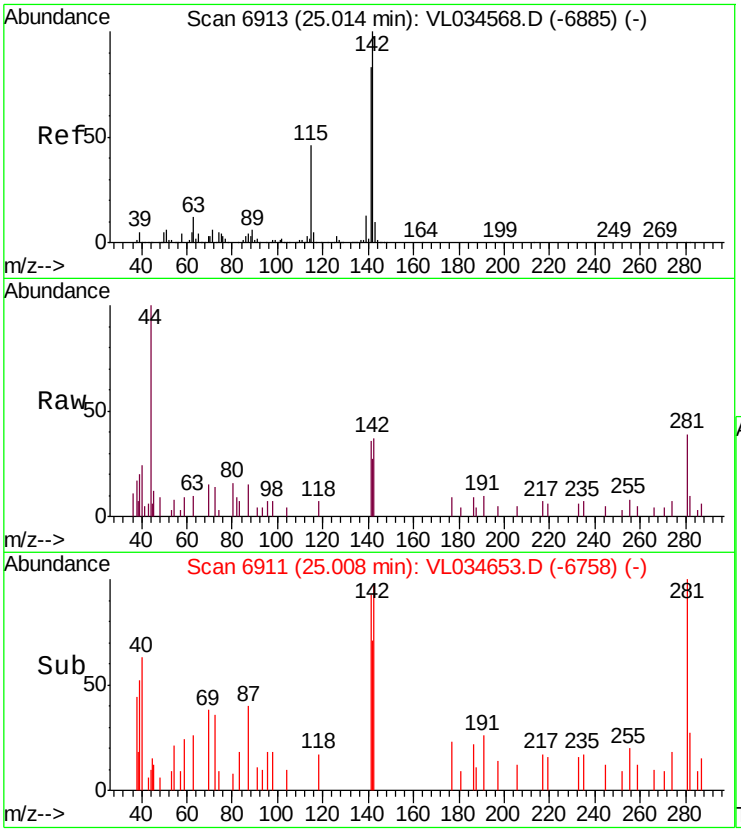




#68
1-Bromo-4-Fluorobenzene
Concen: 10.530 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 95 Resp: 1509975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.4 | 52.3 | 78.5 |
| 175 | 4.7 | 3.8 | 5.6 |






#80
Naphthalene,2-methyl-
Concen: 0.050 ppbv
RT: 25.01 min Scan# 6911
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-1

Tgt Ion:142 Resp: 3649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.5 | 67.0 | 100.4 |
| 115 | 29.3 | 39.5 | 59.3# |