Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL072920\
Data File : VL035251.D
Acq On : 29 Jul 2020 18:09
Operator : SY/AP
Sample : L3474-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jul 30 02:50:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 07:14:29 2020
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.66 | 49 | 1386803 | 10.00 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 7.19 | 114 | 3183201 | 10.00 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 12.12 | 117 | 2904910 | 10.00 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.46 | 95 | 2381179 | 10.26 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.01 | 85 | 9588 | 0.058 | ppbv # | 87 |
| 3) Chlorodifluoromethane | 2.92 | 51 | 758881 | 4.943 | ppbv # | 56 |
| 4) Chloromethane | 3.10 | 50 | 5247 | 0.061 | ppbv # | 67 |
| 8) Dichlorotetrafluoroethane | 3.01 | 85 | 9588 | 0.046 | ppbv # | 19 |
| 9) Propene | 3.17 | 41 | 89511 | 1.673 | ppbv | 99 |
| 11) Trichlorofluoromethane | 3.92 | 101 | 7175 | 0.032 | ppbv | 88 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101 | 6702 | 0.042 | ppbv # | 14 |
| 13) Ethanol | 3.58 | 45 | 2331578 | 107.056 | ppbv | 95 |
| 15) Acetone | 3.82 | 43 | 12358546 | 66.810 | ppbv # | 68 |
| 17) tert-Butyl alcohol | 3.95 | 59 | 872871 | 4.889 | ppbv | 95 |
| 19) Isopropyl Alcohol | 3.96 | 45 | 15622661 | 128.055 | ppbv # | 97 |
| 20) Methylene Chloride | 4.33 | 84 | 415951 | 4.940 | ppbv | 99 |
| 21) Allyl Chloride | 3.95 | 41 | 2168572 | 20.585 | ppbv # | 77 |
| 25) Ethyl Acetate | 5.68 | 43 | 1520744 | 5.264 | ppbv # | 76 |
| 26) Hexane | 5.68 | 57 | 2203108 | 16.906 | ppbv # | 42 |
| 28) Methyl tert-Butyl Ether | 5.02 | 73 | 352745 | 1.893 | ppbv | 99 |
| 29) Chloroform | 5.75 | 83 | 747241 | 3.419 | ppbv | 99 |
| 34) 2-Butanone | 5.02 | 43 | 51821 | 0.320 | ppbv # | 67 |
| 39) 1,2-Dichloropropane | 7.18 | 63 | 865782 | 9.809 | ppbv # | 23 |
| 41) Tetrahydrofuran | 5.68 | 42 | 809754 | 10.201 | ppbv # | 46 |
| 53) Toluene | 9.83 | 91 | 56885 | 0.242 | ppbv | 94 |
| 58) Ethyl Benzene | 13.01 | 91 | 25988 | 0.084 | ppbv | 93 |
| 59) m/p-Xylene | 13.03 | 91 | 9725 | 0.034 | ppbv # | 30 |
| 60) o-Xylene | 13.73 | 91 | 10762 | 0.038 | ppbv # | 63 |

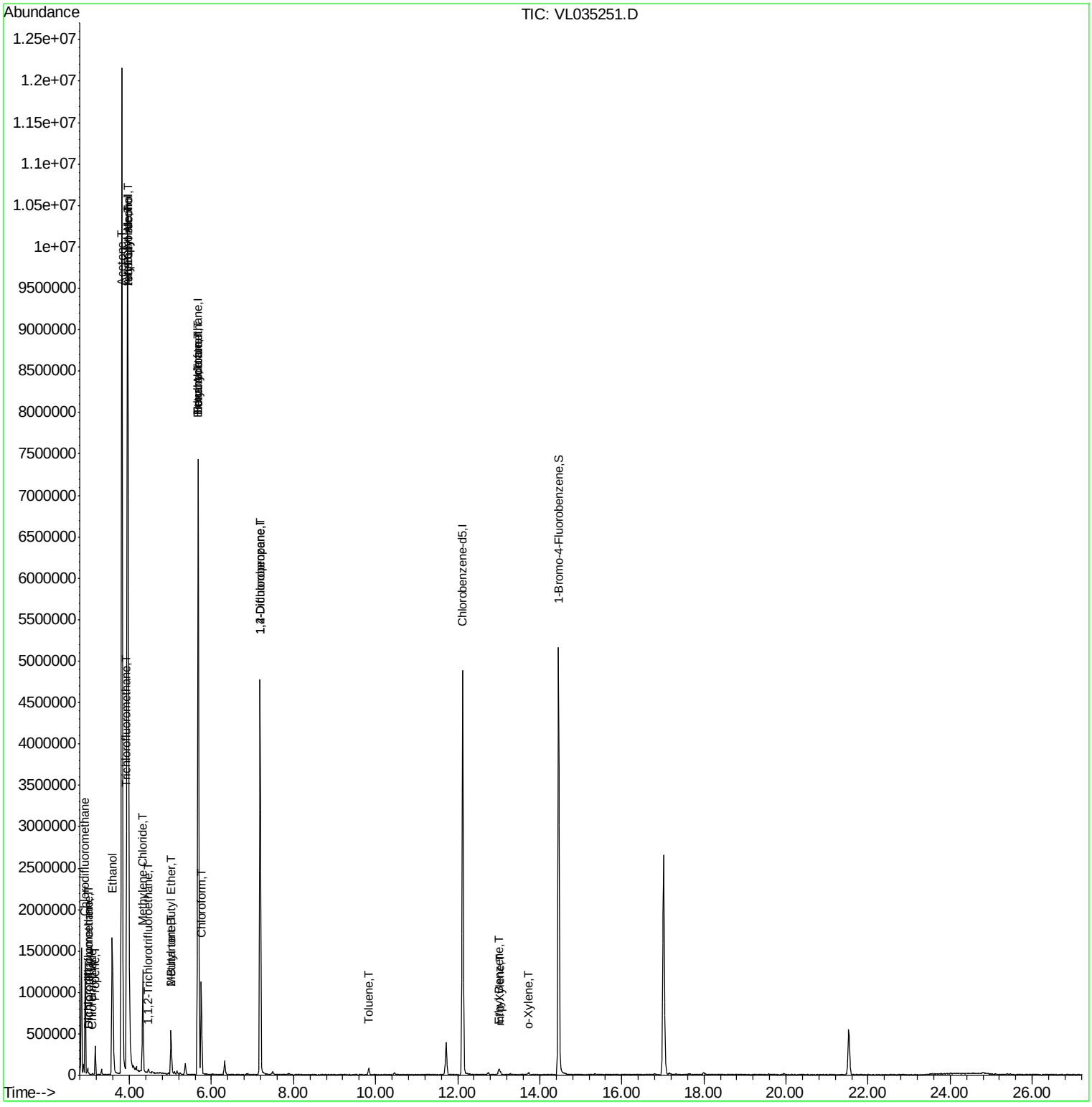
(#) = qualifier out of range (m) = manual integration (+) = signals summed

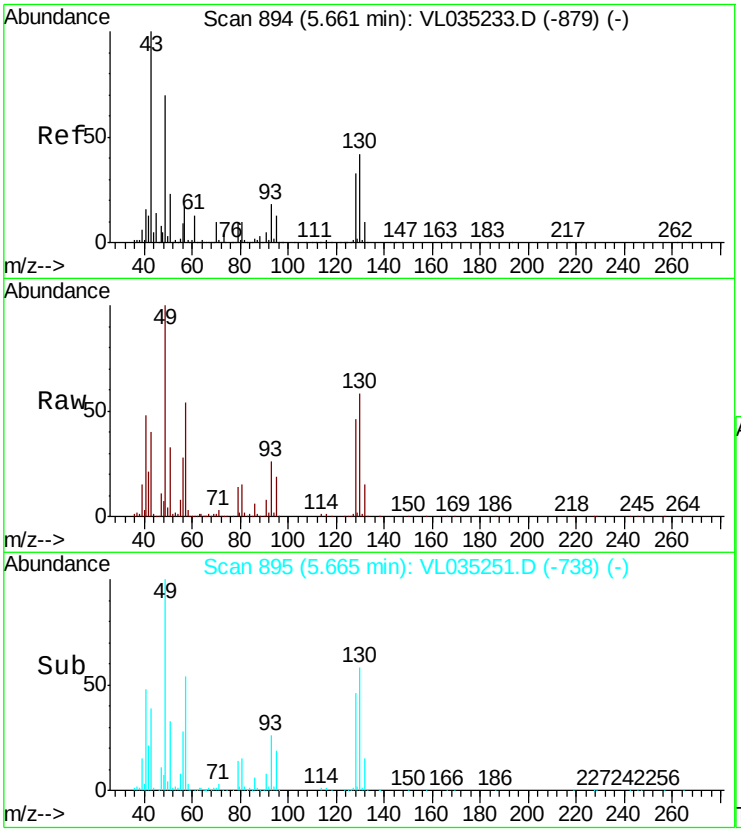
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL072920\
Data File : VL035251.D
Acq On : 29 Jul 2020 18:09
Operator : SY/AP
Sample : L3474-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jul 30 02:50:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 07:14:29 2020
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration



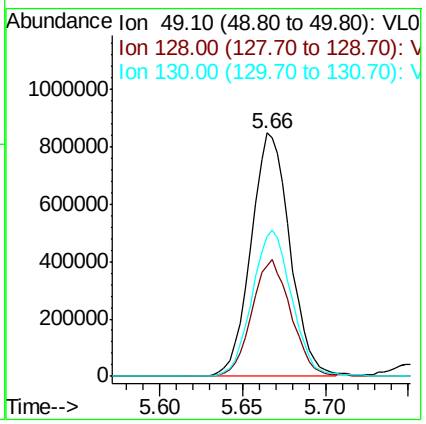


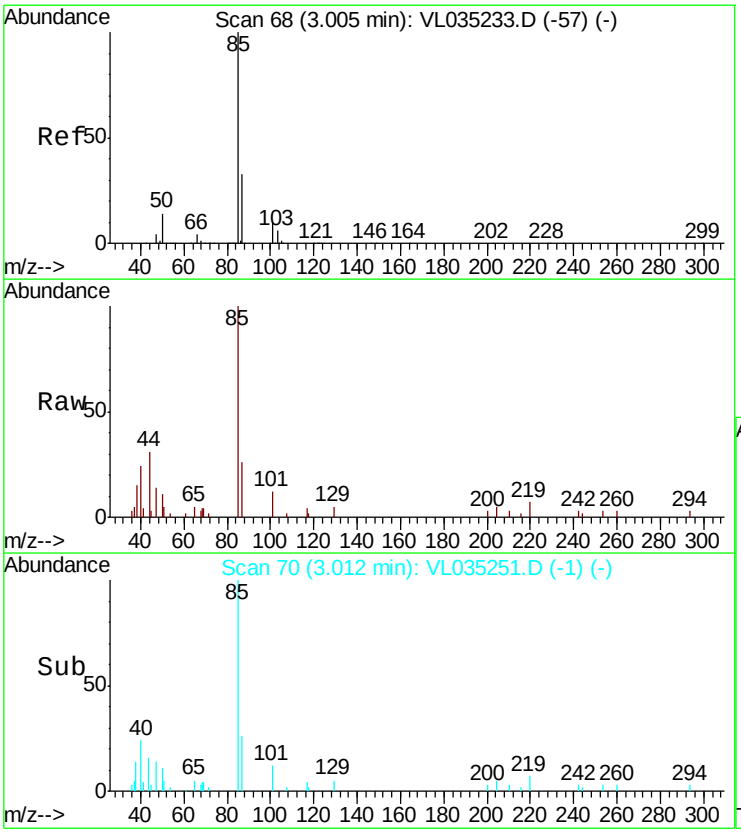

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 49 Resp: 1386803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 48.2 | 24.0 | 72.0 |
| 130 | 61.3 | 30.7 | 92.1 |

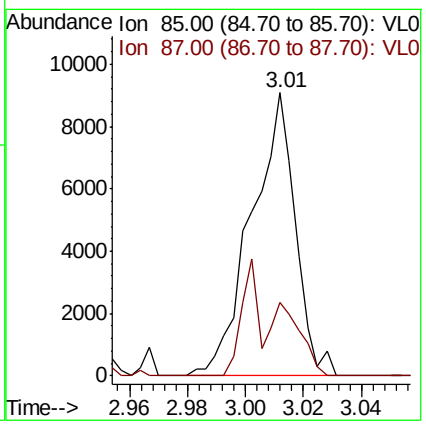


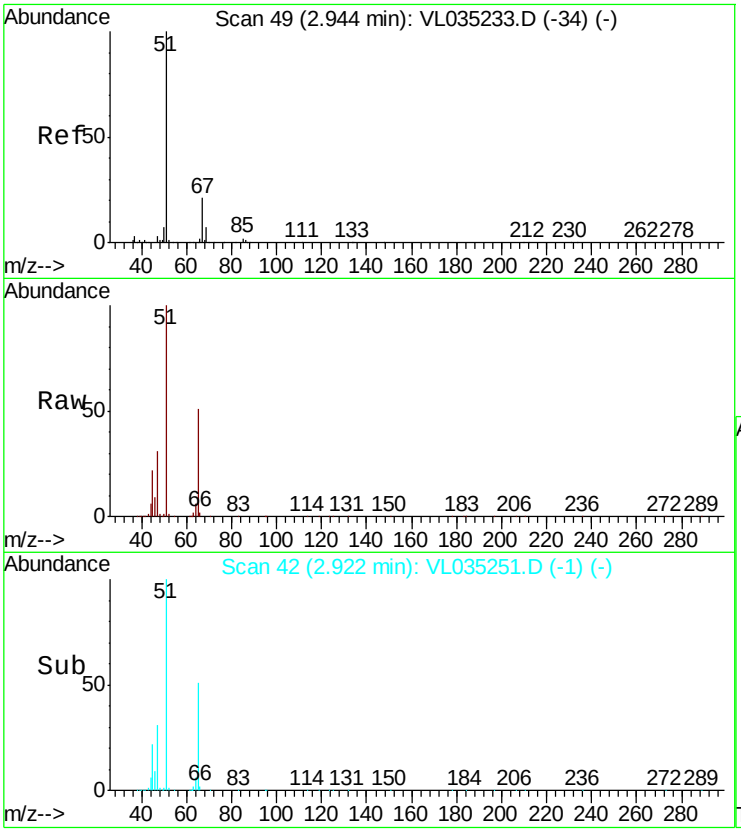




#2
Dichlorodifluoromethane
Concen: 0.058 ppbv
RT: 3.01 min Scan# 70
Delta R.T. 0.01 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 85 Resp: 9588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 25.8 | 26.7 | 40.1# |



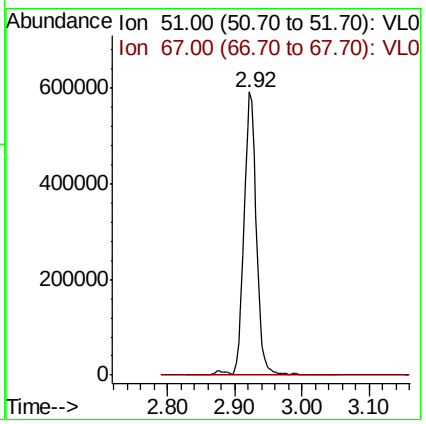


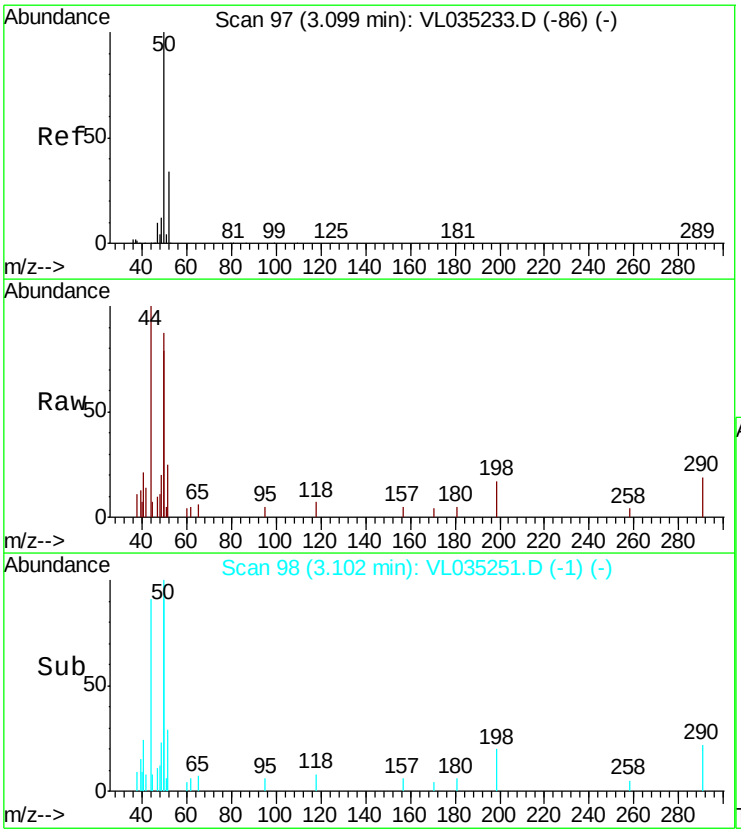

#3
Chlorodifluoromethane
Concen: 4.943 ppbv
RT: 2.92 min Scan# 42
Delta R.T. -0.02 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 51 Resp: 758881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 0.3 | 16.6 | 25.0# |

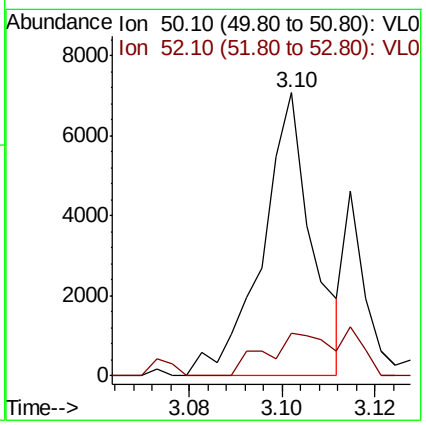


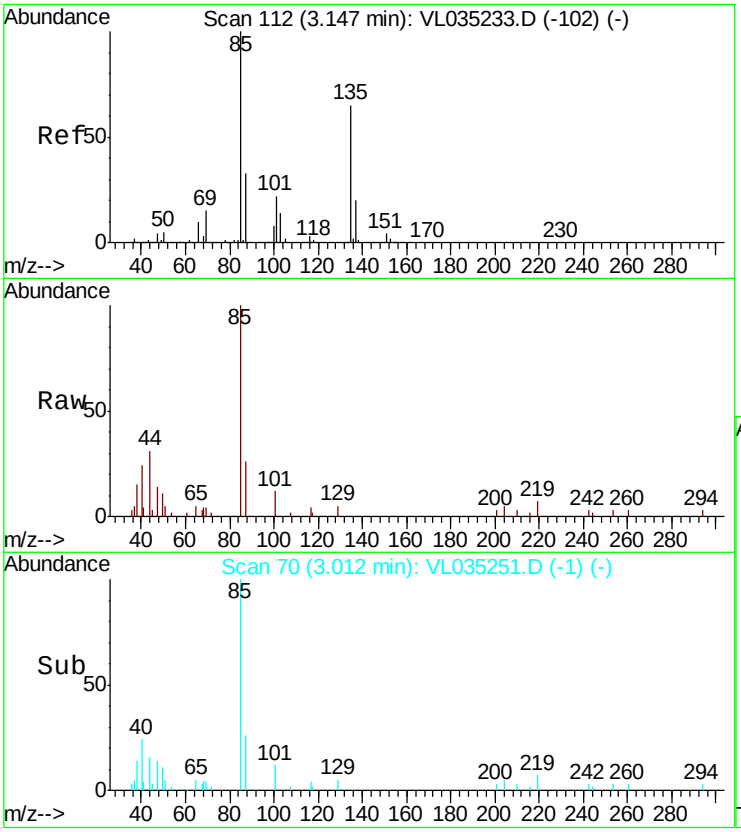




#4
Chloromethane
Concen: 0.061 ppbv
RT: 3.10 min Scan# 98
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 50 Resp: 5247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 15.1 | 27.1 | 40.7# |



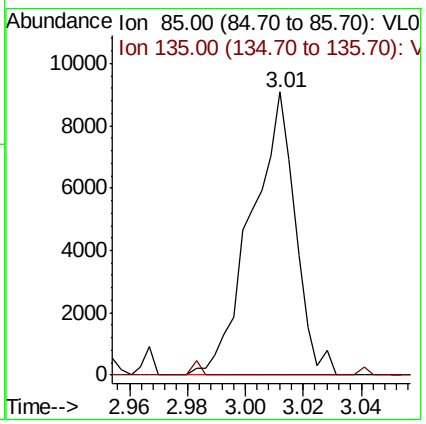


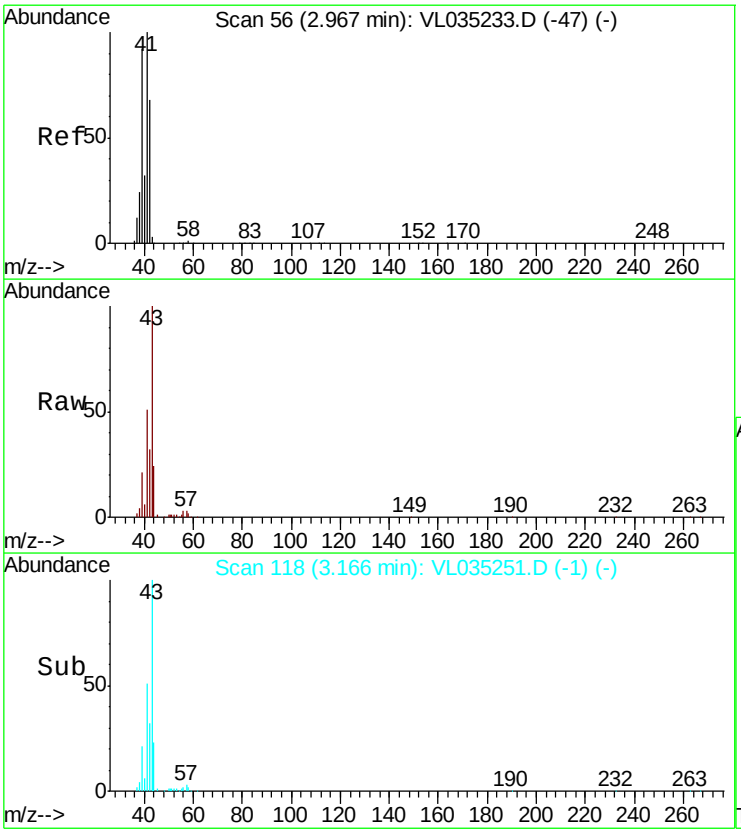

#8
Dichlorotetrafluoroethane
Concen: 0.046 ppbv
RT: 3.01 min Scan# 70
Delta R.T. -0.13 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 85 Resp: 9588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 0.5 | 51.4 | 77.0# |

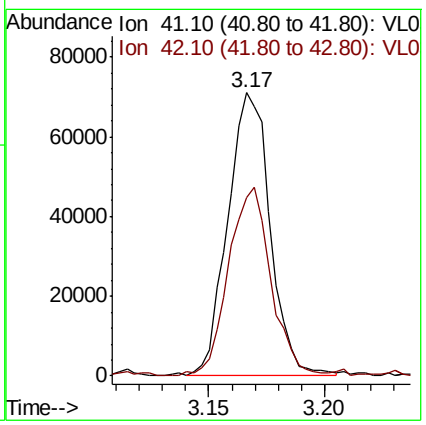


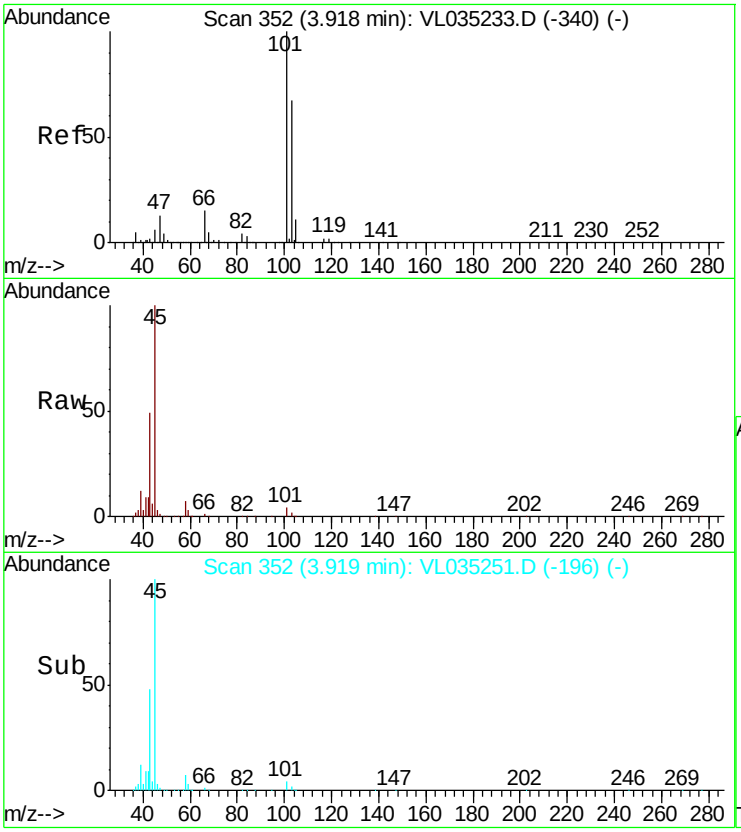




#9
Propene
Concen: 1.673 ppbv
RT: 3.17 min Scan# 118
Delta R.T. 0.20 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 41 Resp: 89511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 70.0 | 55.0 | 82.6 |



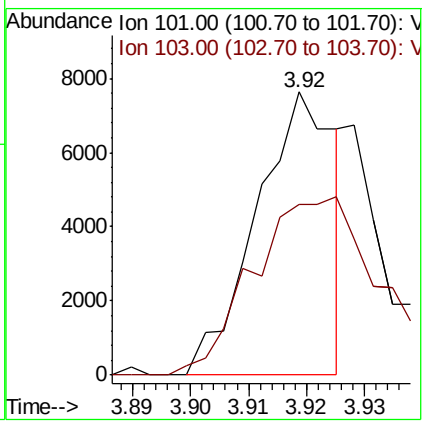


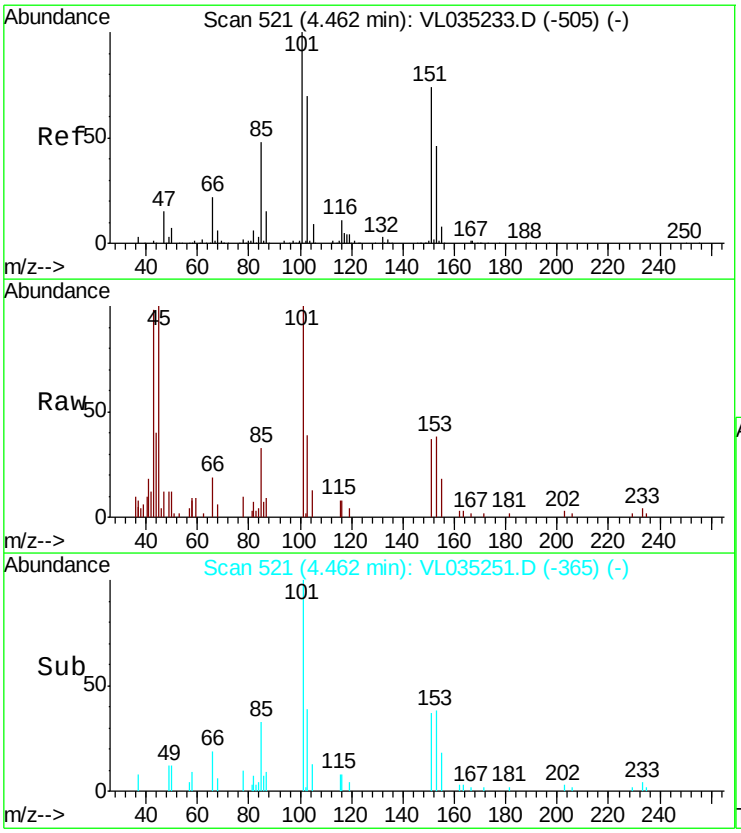

#11
Trichlorofluoromethane
Concen: 0.032 ppbv
RT: 3.92 min Scan# 352
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion:101 Resp: 7175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.0 | 53.4 | 80.0 |

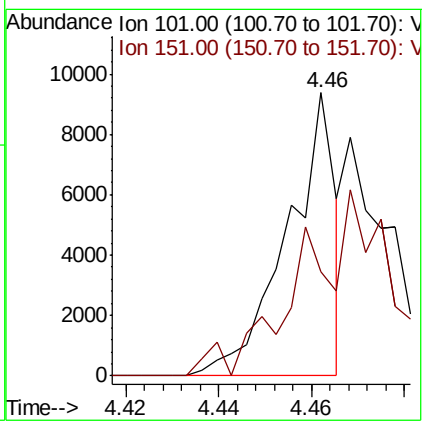


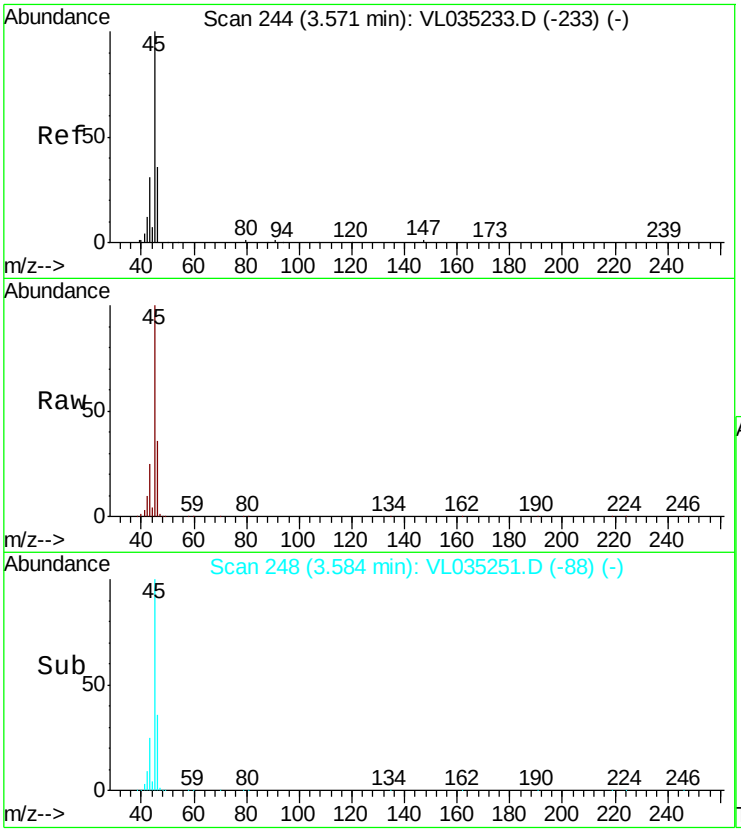




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.042 ppbv
RT: 4.46 min Scan# 521
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion:101 Resp: 6702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 0.0 | 56.6 | 85.0# |



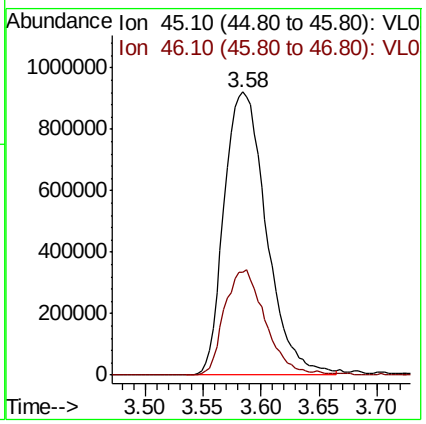


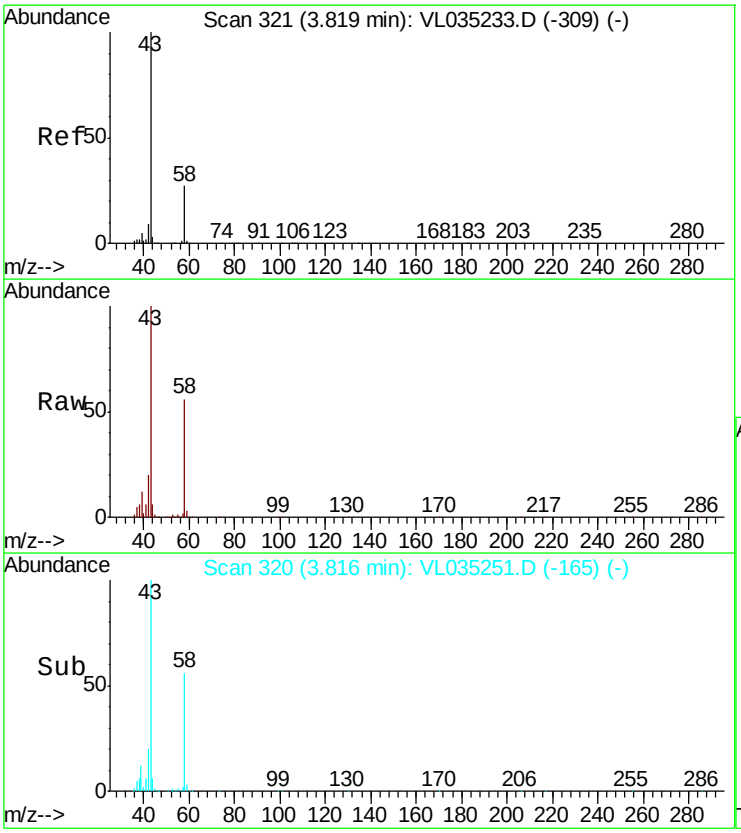

#13
Ethanol
Concen:  107.056 ppbv
RT: 3.58 min  Scan# 248
Delta R.T.  0.01 min
Lab File:  VL035251.D
Acq: 29 Jul 2020  18:09

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

Tgt Ion: 45 Resp: 2331578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.3 | 15.8 | 63.4 |

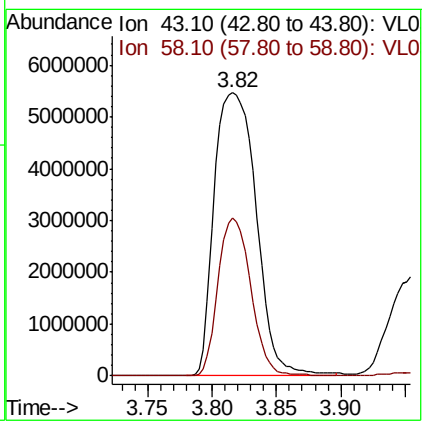


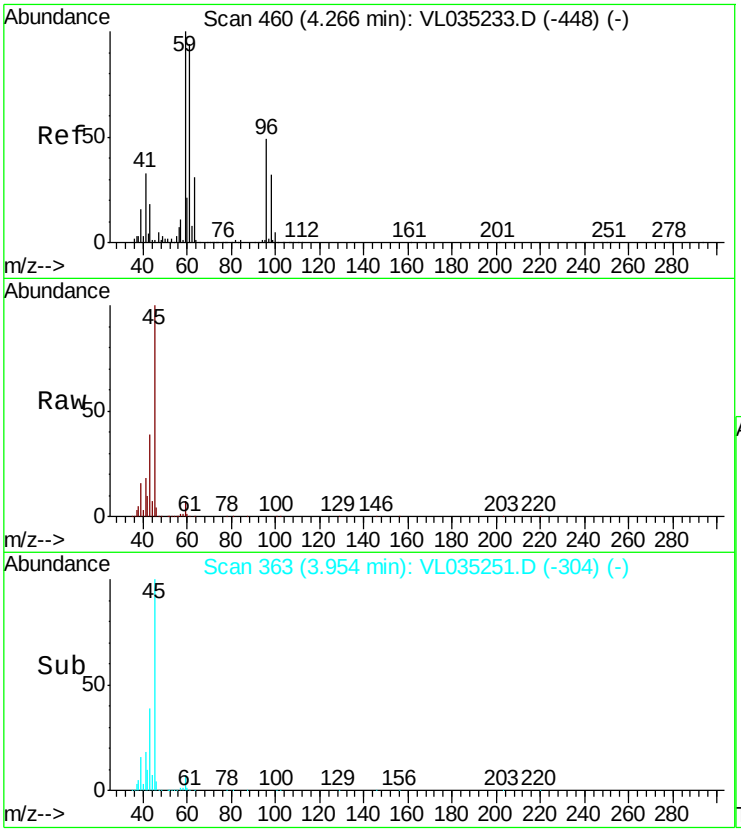




#15
Acetone
Concen:  66.810 ppbv
RT: 3.82 min  Scan# 320
Delta R.T.  -0.00 min
Lab File:  VL035251.D
Acq: 29 Jul 2020  18:09

Tgt Ion: 43 Resp:12358546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.9 | 21.8 | 32.6# |



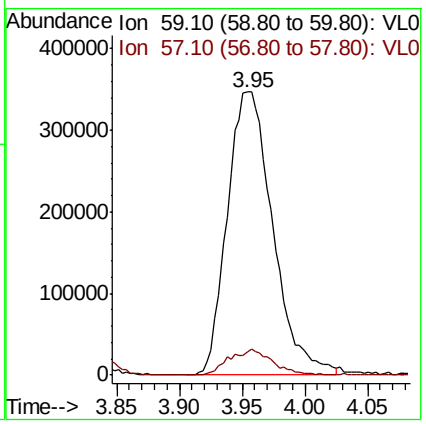


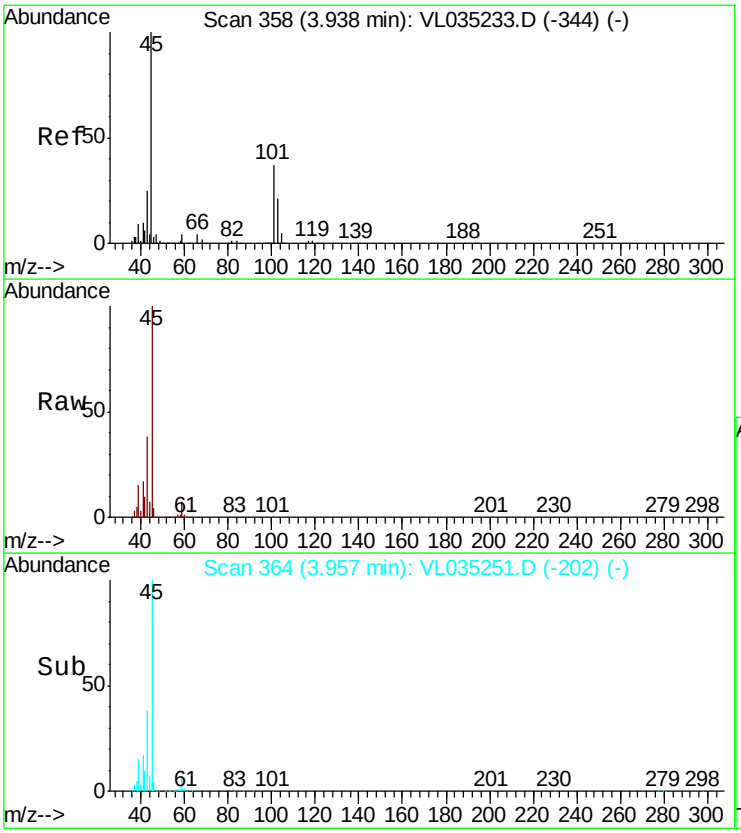

#17
tert-Butyl alcohol
Concen: 4.889 ppbv
RT: 3.95 min Scan# 363
Delta R.T. -0.31 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 59 Resp: 872871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.0 | 8.6 | 12.8 |

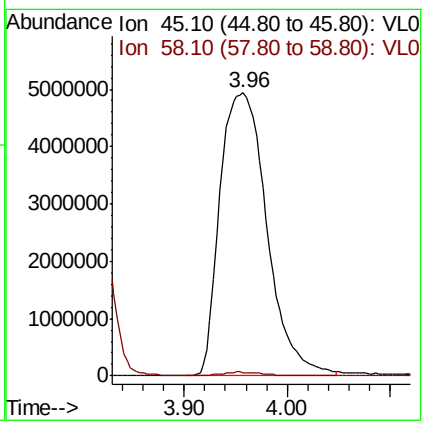


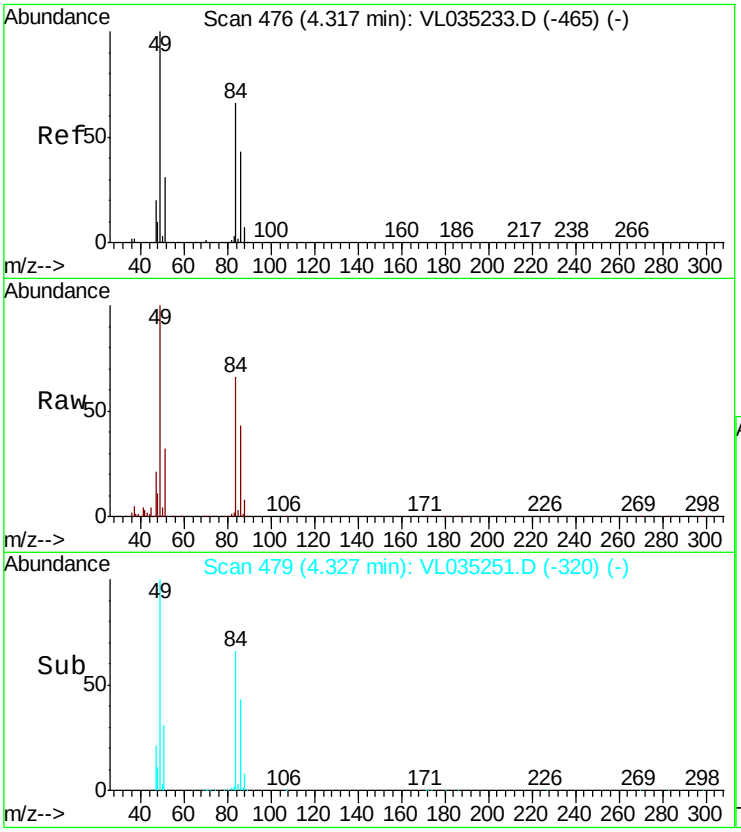




#19
Isopropyl Alcohol
Concen: 128.055 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.02 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 45 Resp:15622661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.4 | 1.9 | 2.9# |



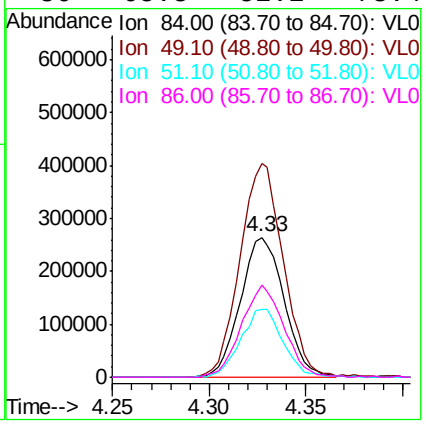


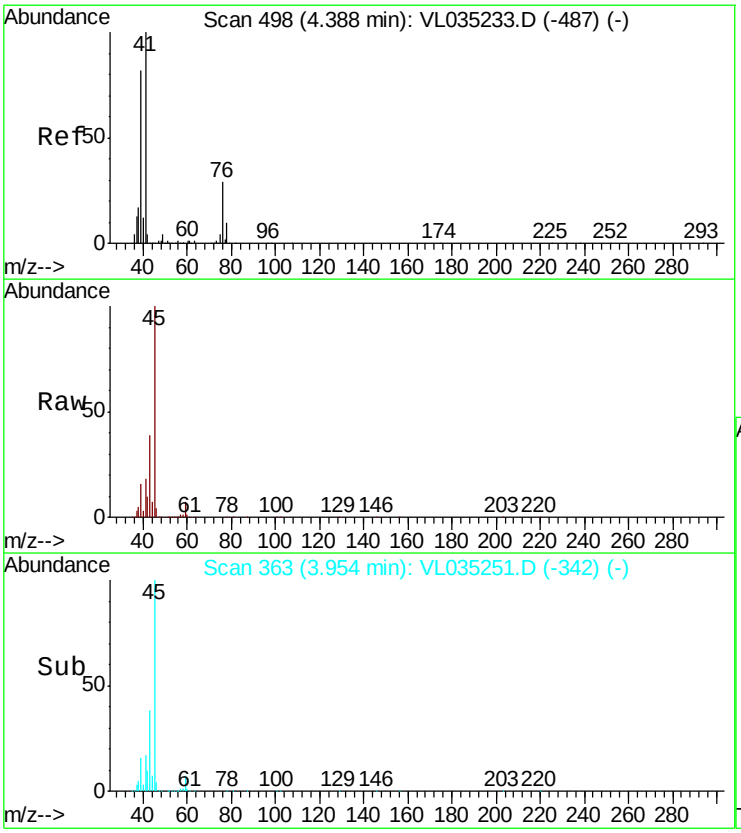

#20
Methylene Chloride
Concen: 4.940 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.01 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 84 Resp: 415951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 152.5 | 121.0 | 181.4 |
| 51 | 48.1 | 37.7 | 56.5 |
| 86 | 65.8 | 52.2 | 78.4 |

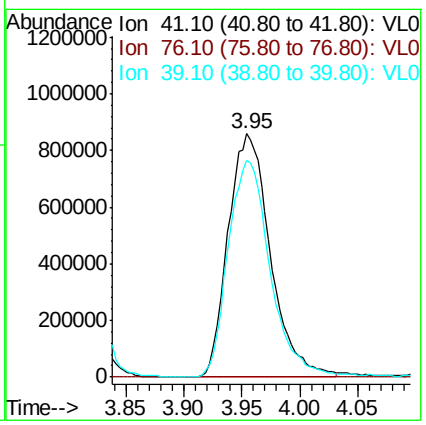


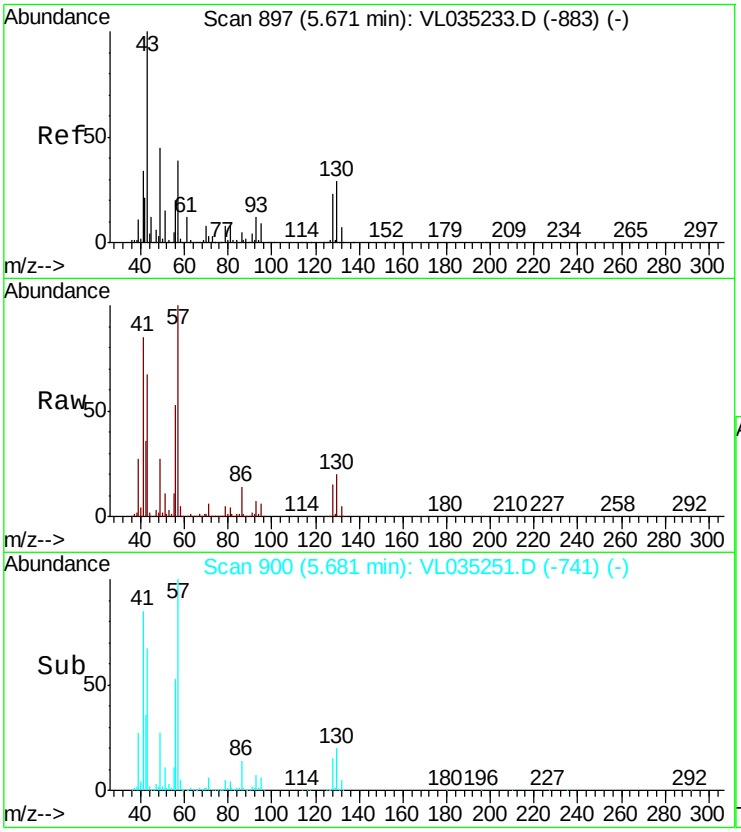




#21
Allyl Chloride
Concen: 20.585 ppbv
RT: 3.95 min Scan# 363
Delta R.T. -0.43 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 41 Resp: 2168572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 24.4 | 36.6# |
| 39 | 88.7 | 63.8 | 95.8 |



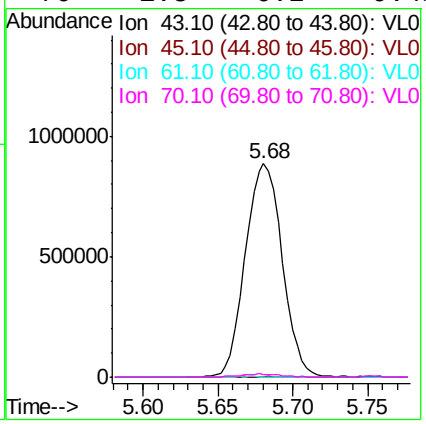


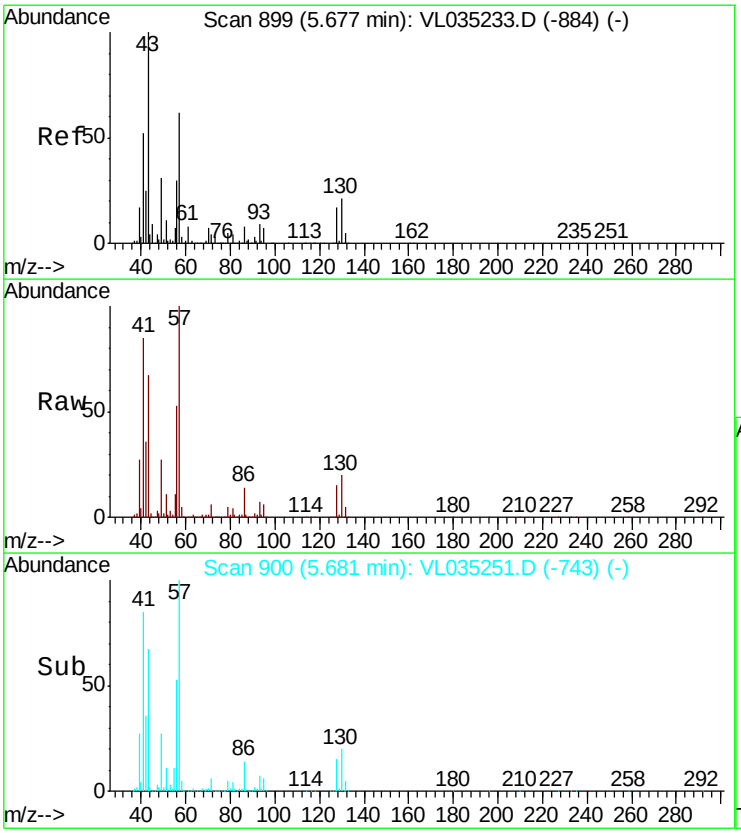

#25
Ethyl Acetate
Concen: 5.264 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 43 Resp: 1520744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.4 | 8.5 | 12.7# |
| 61 | 0.4 | 8.1 | 12.1# |
| 70 | 1.8 | 6.2 | 9.4# |

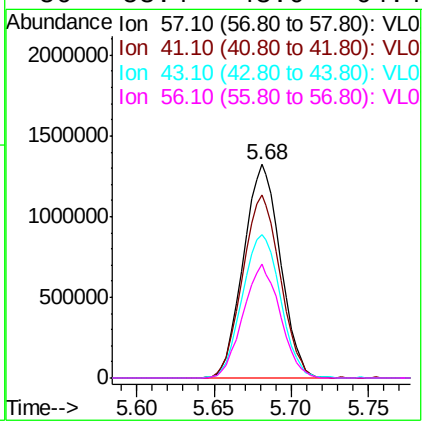


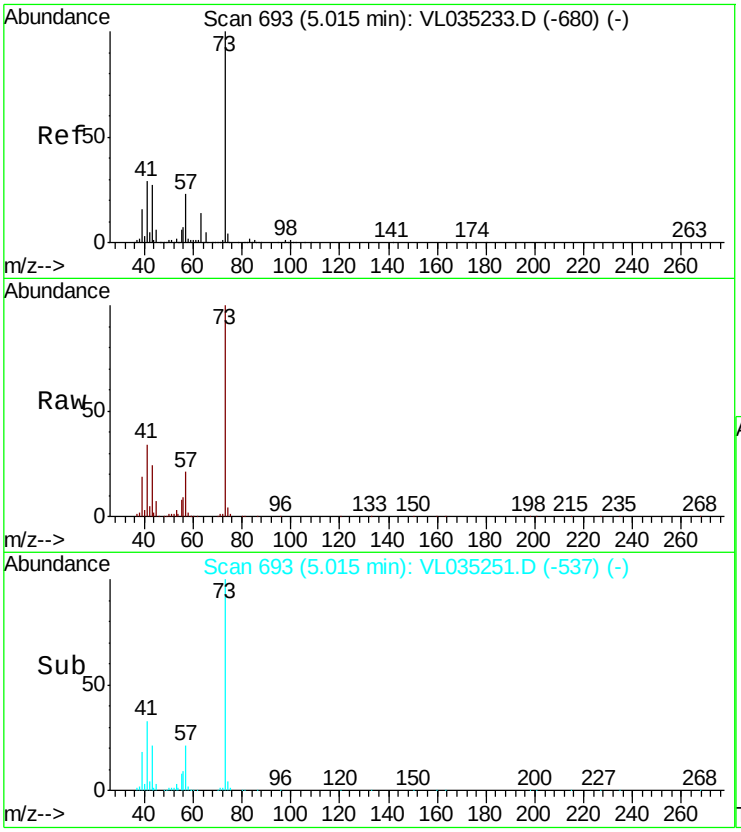




#26
Hexane
Concen: 16.906 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 57 Resp: 2203108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 87.2 | 73.9 | 110.9 |
| 43 | 69.6 | 177.6 | 266.4# |
| 56 | 53.4 | 43.0 | 64.4 |



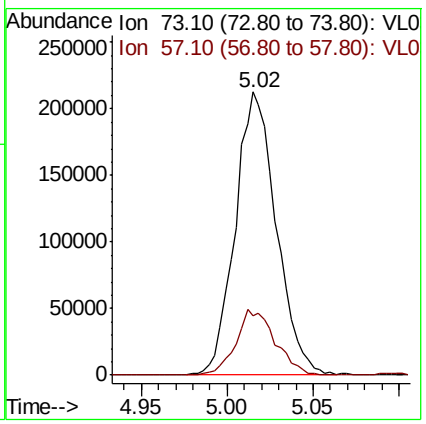


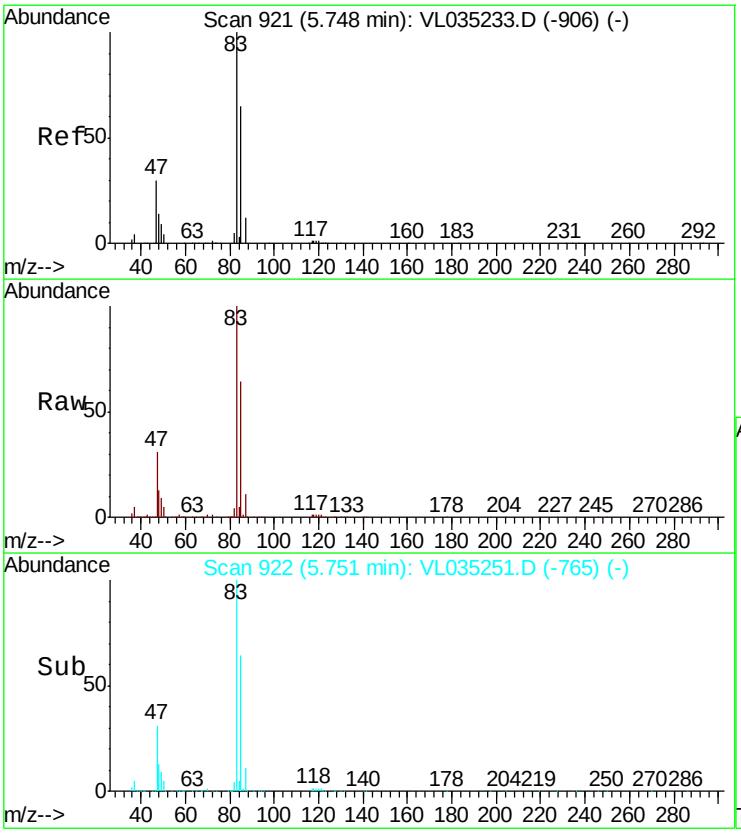

#28
Methyl tert-Butyl Ether
Concen: 1.893 ppbv
RT: 5.02 min Scan# 693
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 73 Resp: 352745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.2 | 27.4 |

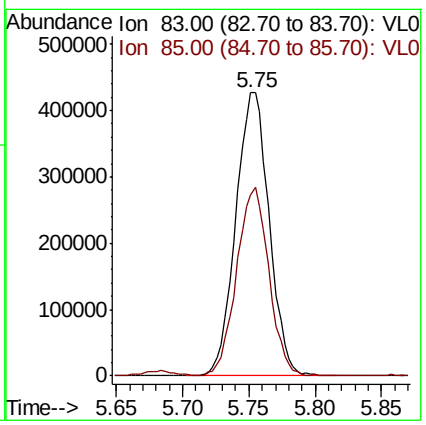


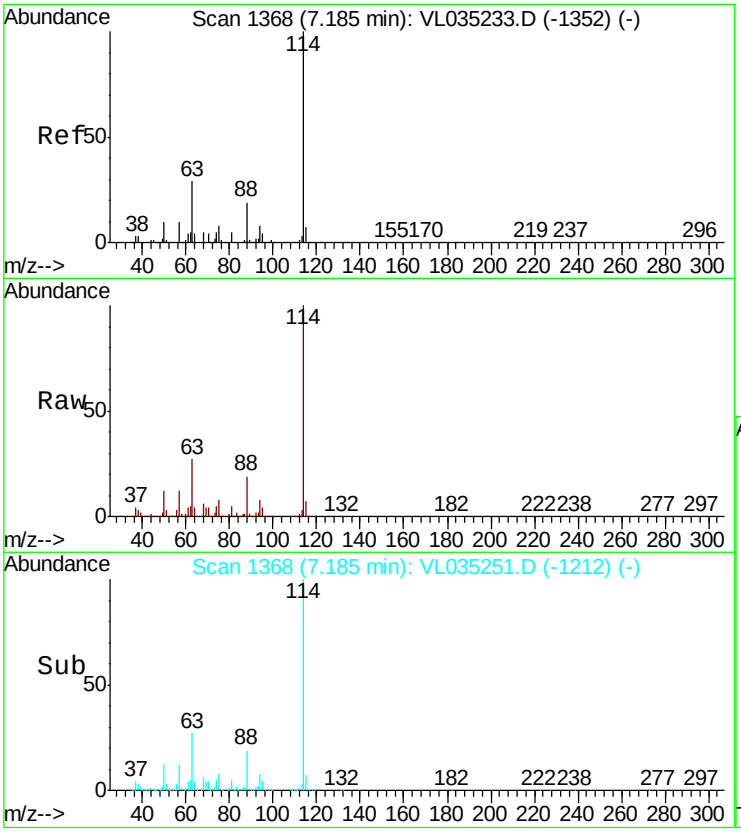




#29
Chloroform
Concen: 3.419 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 83 Resp: 747241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 51.7 | 77.5 |



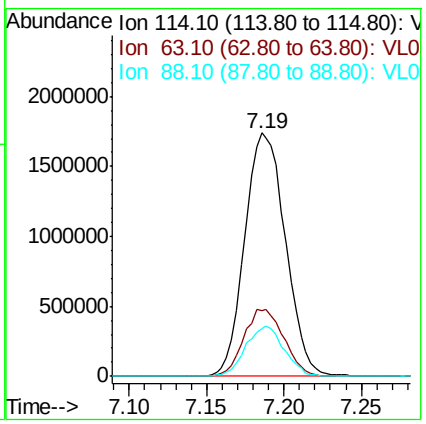


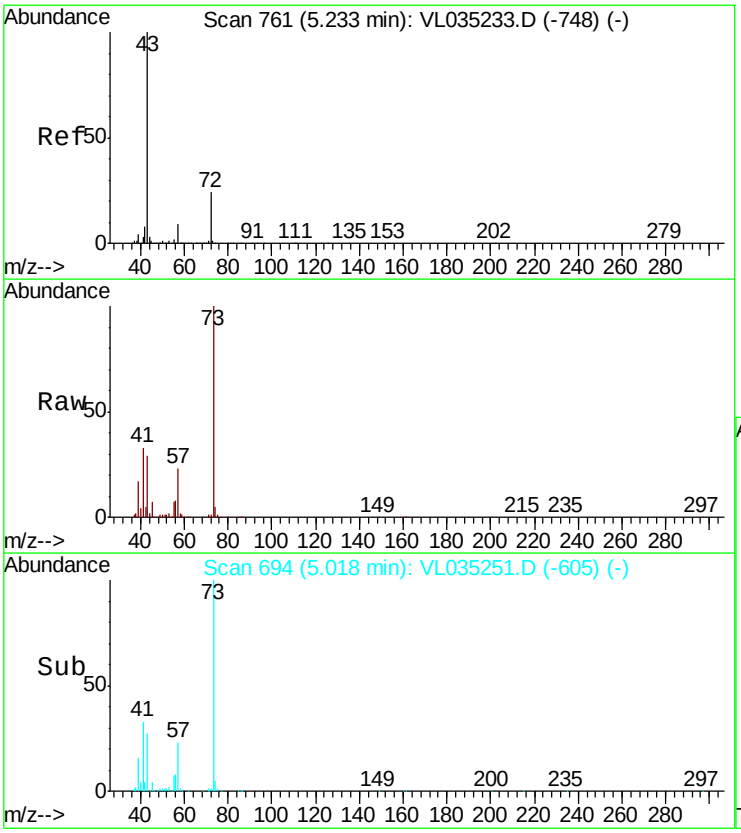

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion:114 Resp: 3183201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 22.2 | 33.2 |
| 88 | 19.7 | 15.4 | 23.0 |

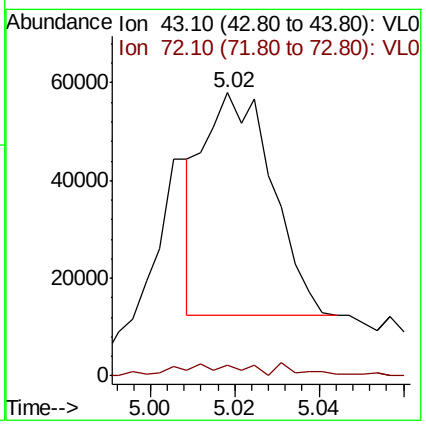


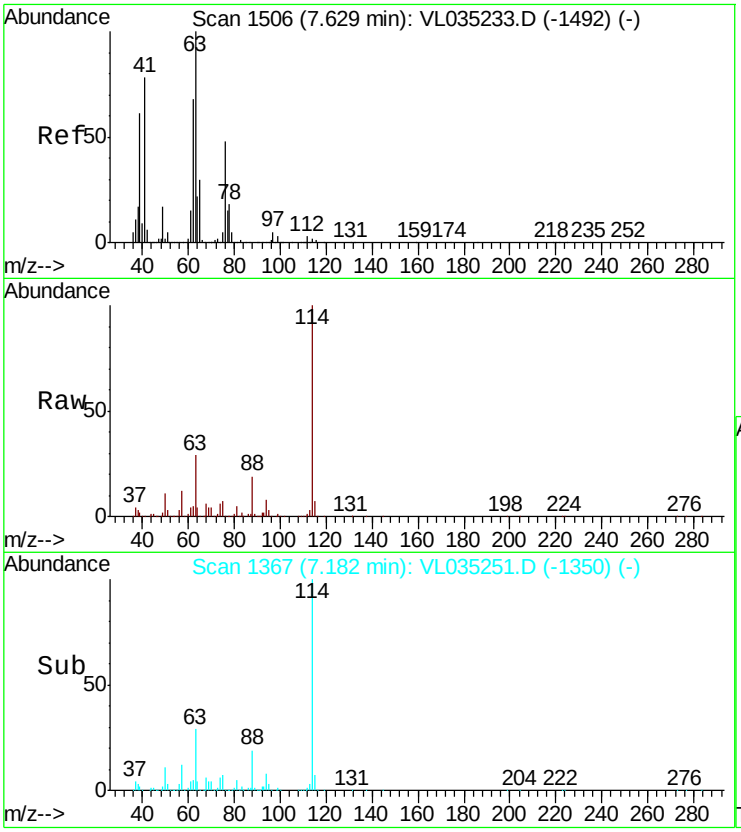




#34
2-Butanone
Concen: 0.320 ppbv
RT: 5.02 min Scan# 694
Delta R.T. -0.22 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 43 Resp: 51821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 7.6 | 19.2 | 28.8# |



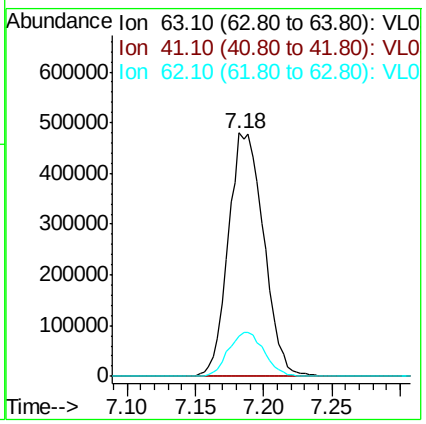


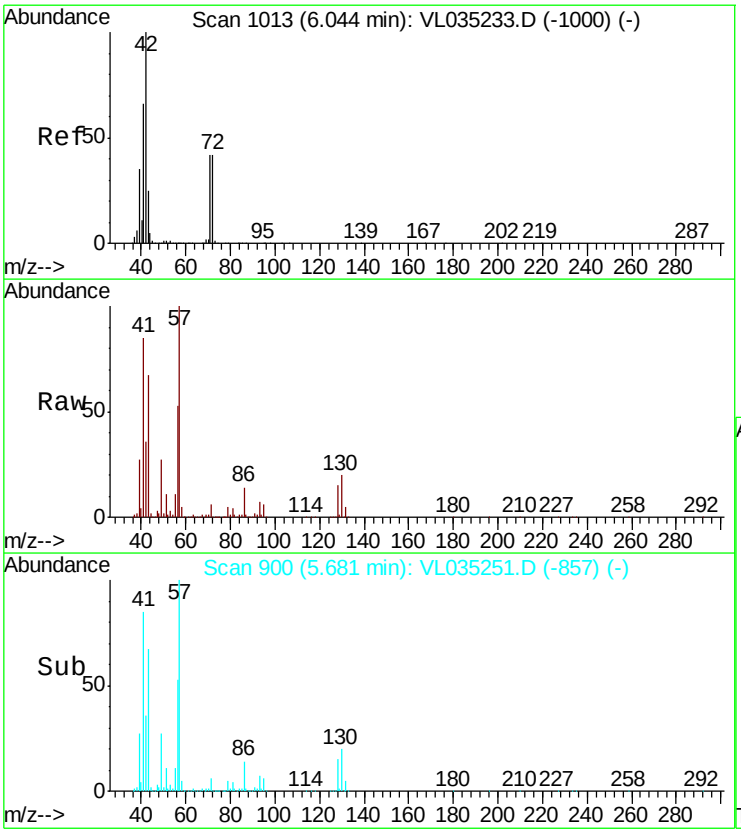

#39
1,2-Dichloropropane
Concen: 9.809 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.45 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 63 Resp: 865782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 62.2 | 93.4# |
| 62 | 16.5 | 54.2 | 81.2# |

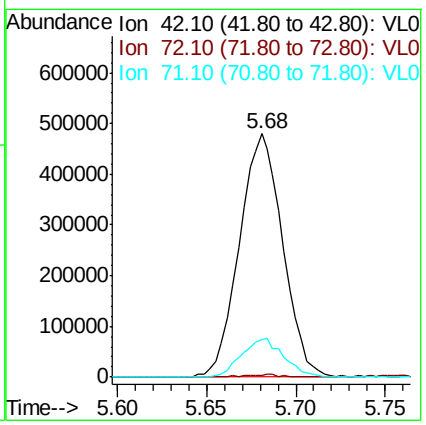


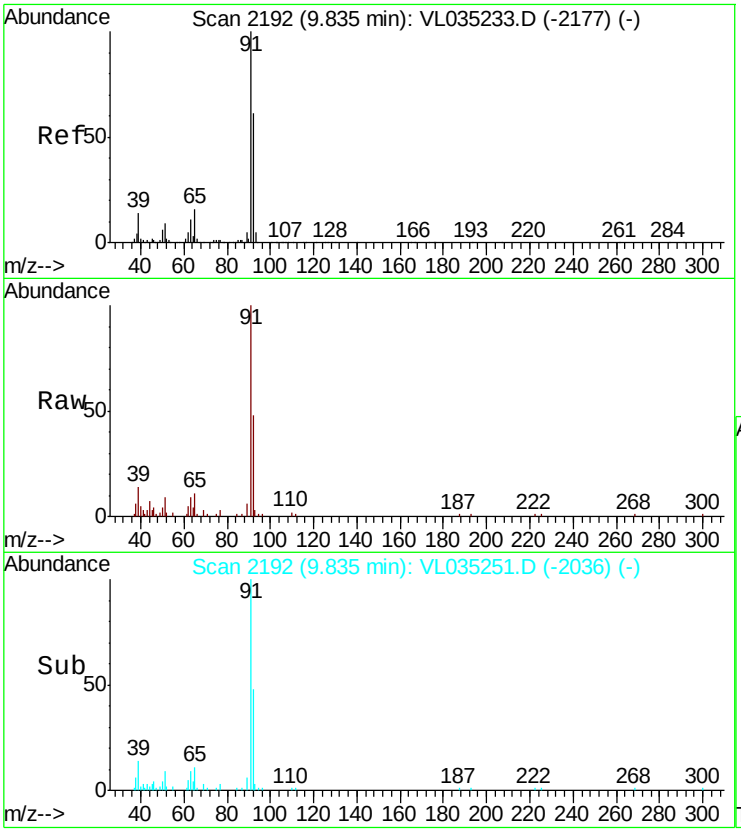




#41
Tetrahydrofuran
Concen: 10.201 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.36 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 42 Resp: 809754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.9 | 34.2 | 51.2# |
| 71 | 15.5 | 33.2 | 49.8# |



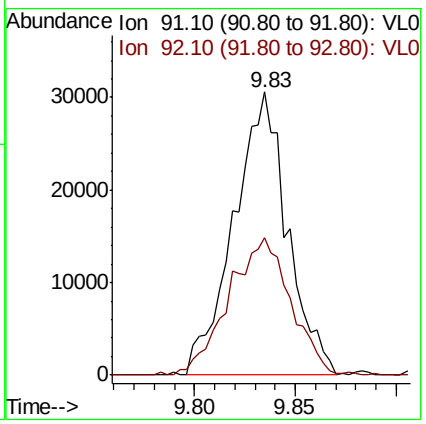


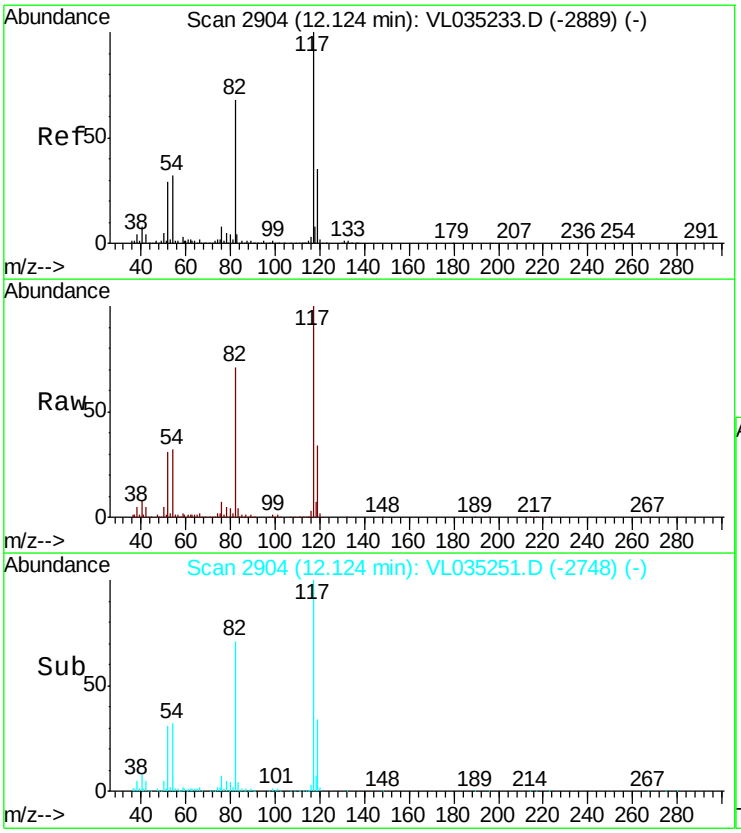

#53
Toluene
Concen: 0.242 ppbv
RT: 9.83 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 91 Resp: 56885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.8 | 48.5 | 72.7 |

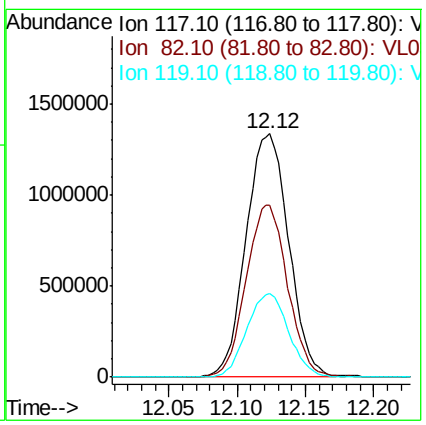


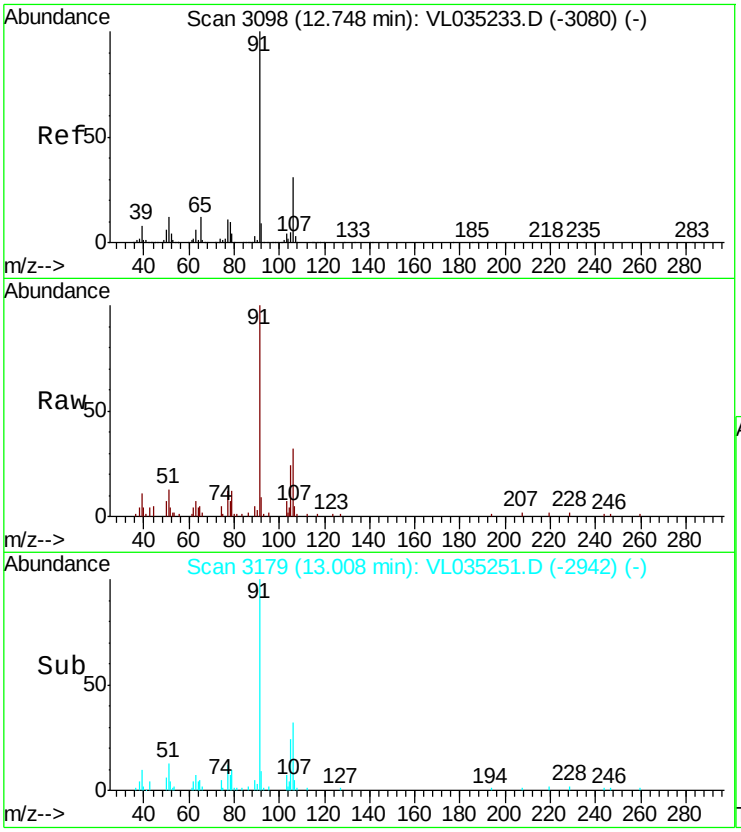




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion:117 Resp: 2904910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.8 | 52.4 | 78.6 |
| 119 | 33.9 | 24.6 | 36.8 |



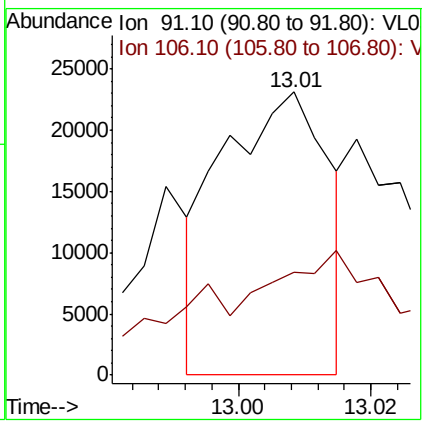


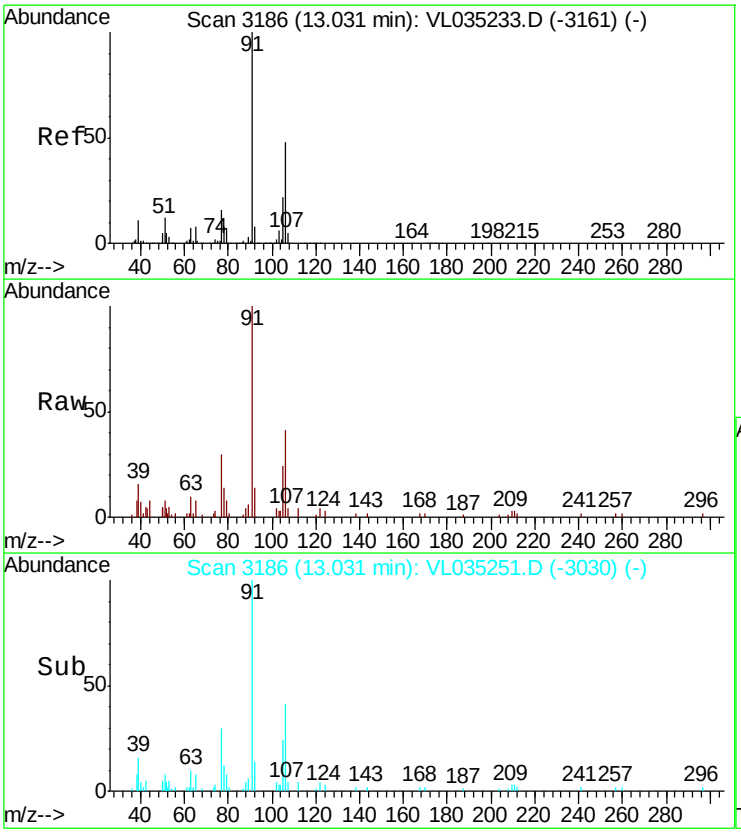

#58
Ethyl Benzene
Concen: 0.084 ppbv
RT: 13.01 min Scan# 3179
Delta R.T. 0.26 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 91 Resp: 25988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.5 | 25.0 | 37.6 |

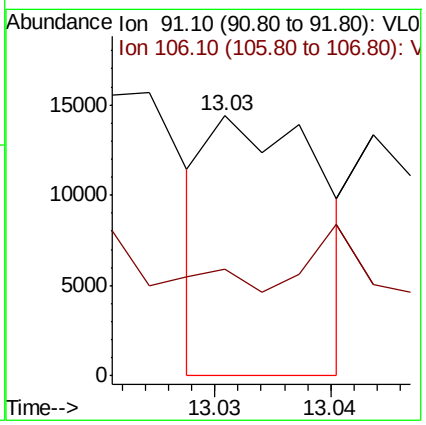


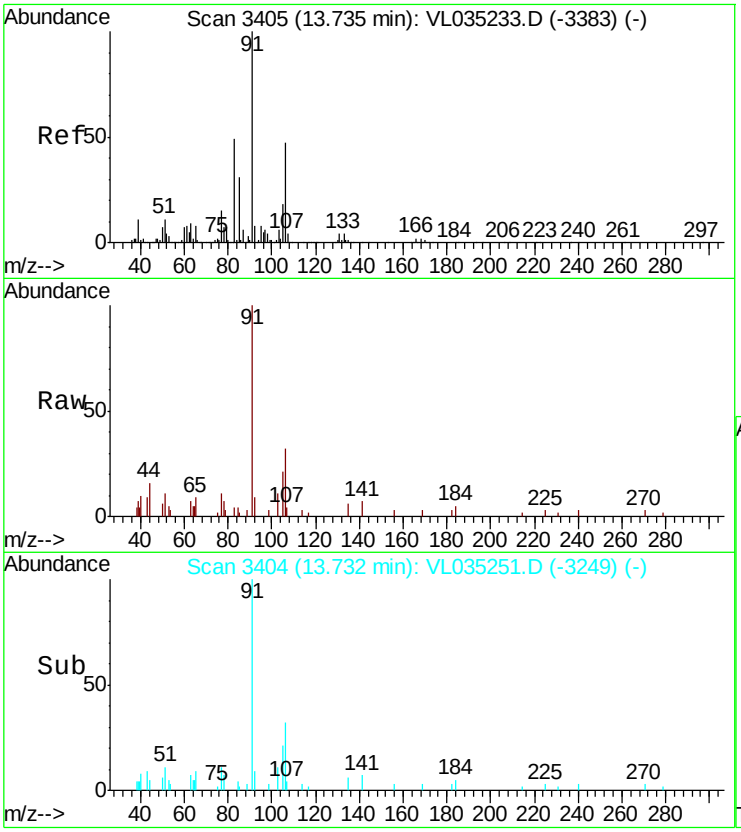




#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 13.03 min Scan# 3186
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 91 Resp: 9725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 37.2 | 55.8# |



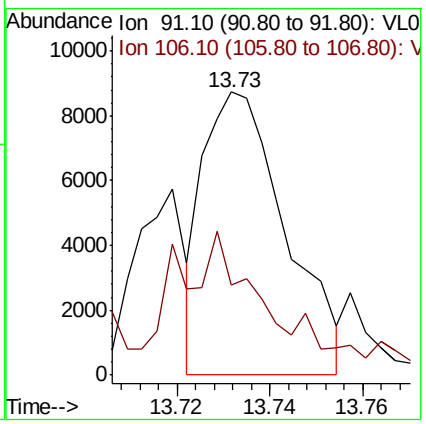


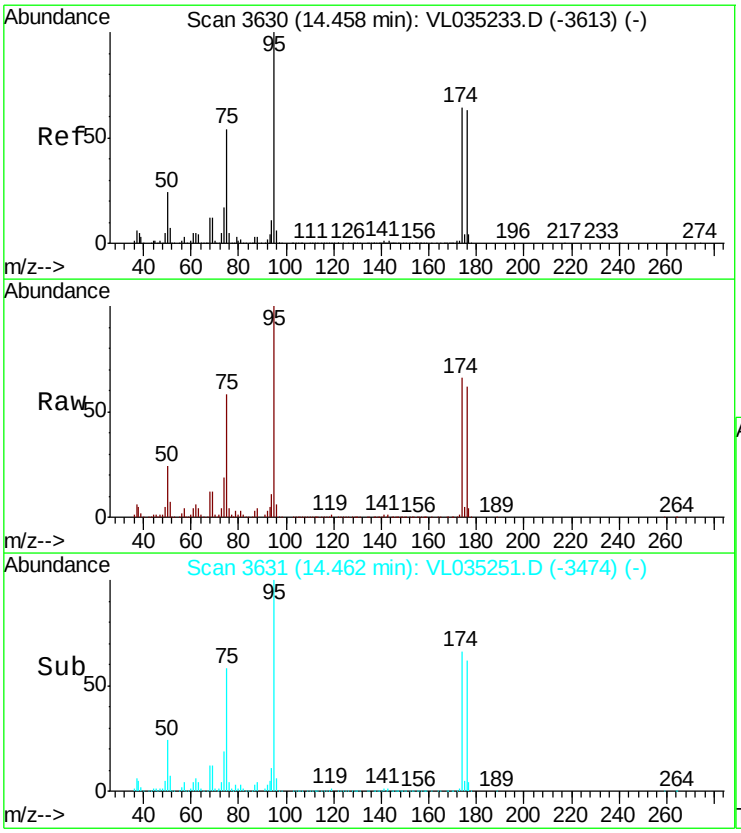

#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.73 min Scan# 3404
Delta R.T. -0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

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

Tgt Ion: 91 Resp: 10762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 68.5 | 22.4 | 67.0# |




#68
1-Bromo-4-Fluorobenzene
Concen: 10.258 ppbv
RT: 14.46 min Scan# 3631
Delta R.T. 0.00 min
Lab File: VL035251.D
Acq: 29 Jul 2020 18:09

Tgt Ion: 95 Resp: 2381179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.2 | 52.7 | 79.1 |
| 175 | 4.7 | 3.9 | 5.9 |