Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051122\
Data File : VL039025.D
Acq On : 11 May 2022 18:25
Operator : SY/AP
Sample : N2753-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** IA1

Quant Time: May 12 01:55:14 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.65 | 49 | 959748 | 10.00 | ppbv | | -0.02 |
| 33) 1,4-Difluorobenzene | 7.16 | 114 | 2527815 | 10.00 | ppbv | | -0.02 |
| 55) Chlorobenzene-d5 | 12.06 | 117 | 2137442 | 10.00 | ppbv | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.39 | 95 | 1609478 | 9.51 | ppbv | | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.10% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.04 | 85 | 22811 | 0.15 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 2.98 | 51 | 87728 | 0.74 | ppbv | # | 73 |
| 4) Chloromethane | 3.13 | 50 | 40042 | 0.67 | ppbv | | 93 |
| 9) Propene | 3.20 | 41 | 67583 | 1.30 | ppbv | | 91 |
| 11) Trichlorofluoromethane | 3.94 | 101 | 24642 | 0.19 | ppbv | | 94 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101 | 3103 | 0.03 | ppbv | # | 11 |
| 13) Ethanol | 3.59 | 45 | 224422 | 60.98 | ppbv | | 91 |
| 15) Acetone | 3.83 | 43 | 1104733 | 12.20 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 3.96 | 45 | 42839 | 1.00 | ppbv | # | 95 |
| 20) Methylene Chloride | 4.33 | 84 | 773255 | 22.66 | ppbv | | 96 |
| 23) Vinyl Acetate | 5.05 | 43 | 10797 | 0.15 | ppbv | # | 86 |
| 25) Ethyl Acetate | 5.67 | 43 | 810628 | 3.74 | ppbv | # | 77 |
| 26) Hexane | 5.67 | 57 | 1146889 | 11.91 | ppbv | # | 38 |
| 29) Chloroform | 5.73 | 83 | 43180 | 0.28 | ppbv | | 85 |
| 30) Cyclohexane | 7.10 | 84 | 2952 | 0.04 | ppbv | # | 1 |
| 34) 2-Butanone | 5.23 | 43 | 22390 | 0.17 | ppbv | # | 9 |
| 36) Benzene | 6.87 | 78 | 26004 | 0.12 | ppbv | # | 87 |
| 39) 1,2-Dichloropropane | 7.15 | 63 | 609783 | 7.24 | ppbv | # | 26 |
| 41) Tetrahydrofuran | 6.00 | 42 | 5490 | 0.06 | ppbv | # | 62 |
| 44) 2,2,4-Trimethylpentane | 7.84 | 57 | 25133 | 0.07 | ppbv | # | 43 |
| 53) Toluene | 9.78 | 91 | 60818 | 0.25 | ppbv | # | 63 |
| 59) m/p-Xylene | 12.97 | 91 | 16609 | 0.06 | ppbv | # | 33 |
| 60) o-Xylene | 13.66 | 91 | 15805 | 0.06 | ppbv | # | 23 |
| 73) 1,3,5-Trimethylbenzene | 15.97 | 105 | 9563 | 0.04 | ppbv | | 87 |
| 74) 1,2,4-Trimethylbenzene | 16.73 | 105 | 36549 | 0.13 | ppbv | # | 61 |

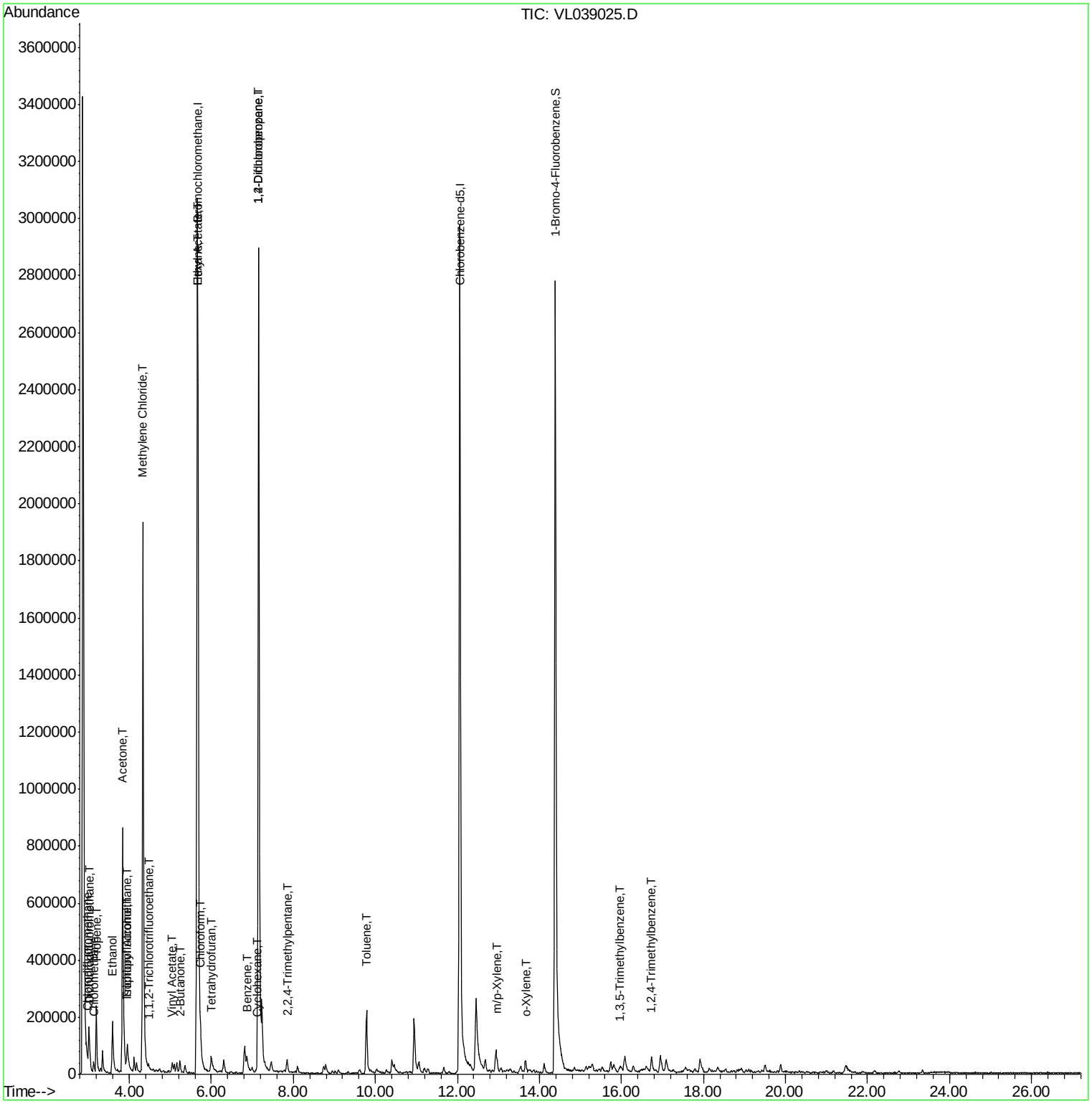
(#) = qualifier out of range (m) = manual integration (+) = signals summed

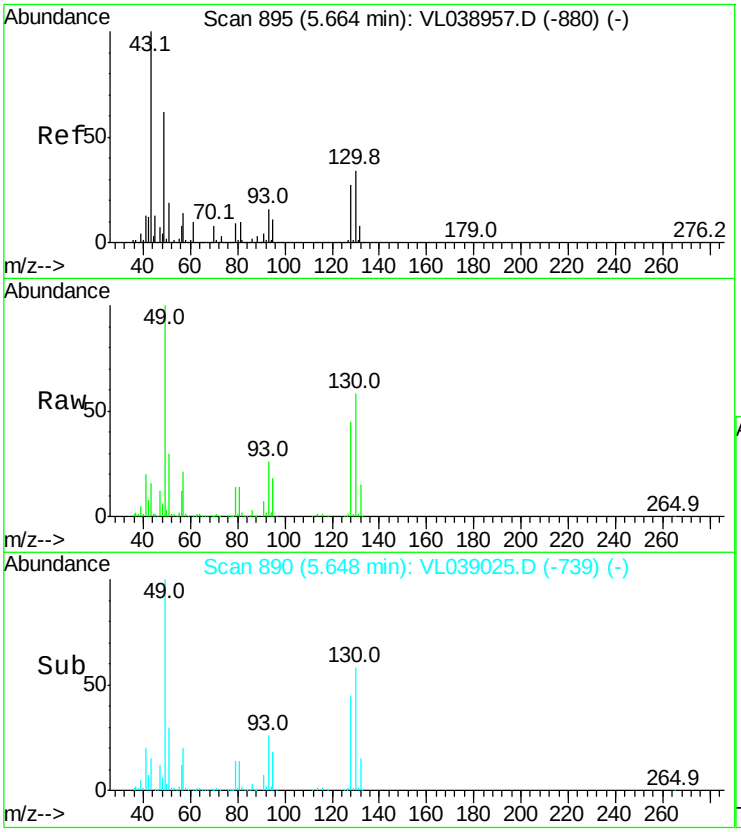
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051122\
Data File : VL039025.D
Acq On : 11 May 2022 18:25
Operator : SY/AP
Sample : N2753-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Quant Time: May 12 01:55:14 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration



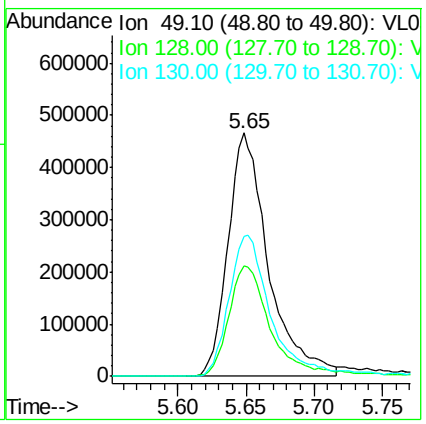


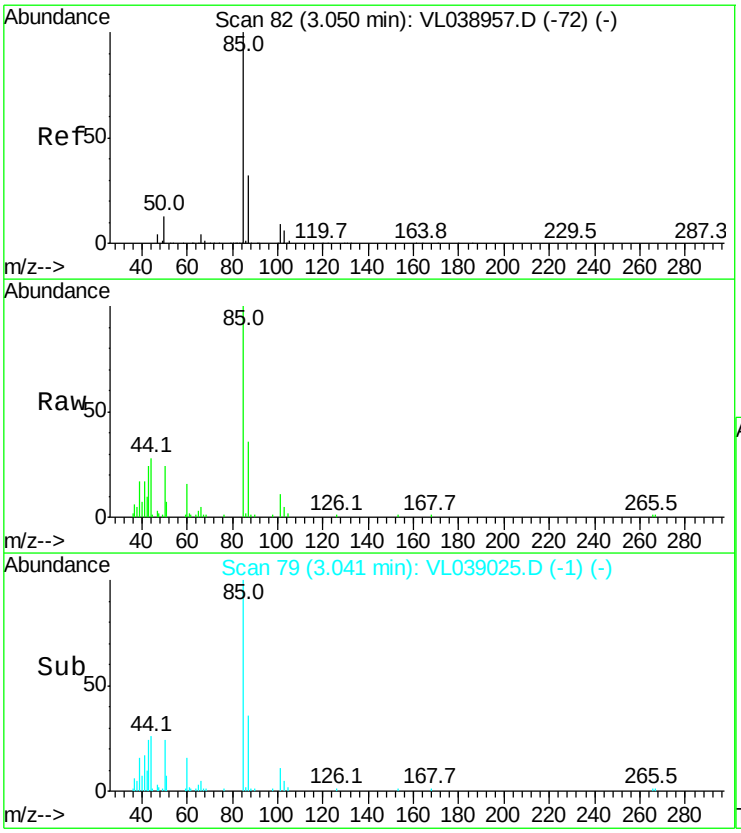

#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.65
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 49 Resp: 959748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 48.9 | 23.3 | 69.8 |
| 130 | 60.9 | 29.8 | 89.3 |

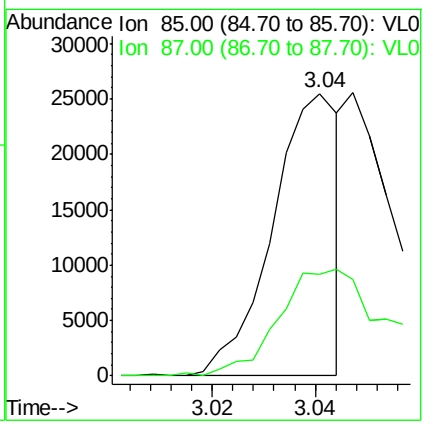


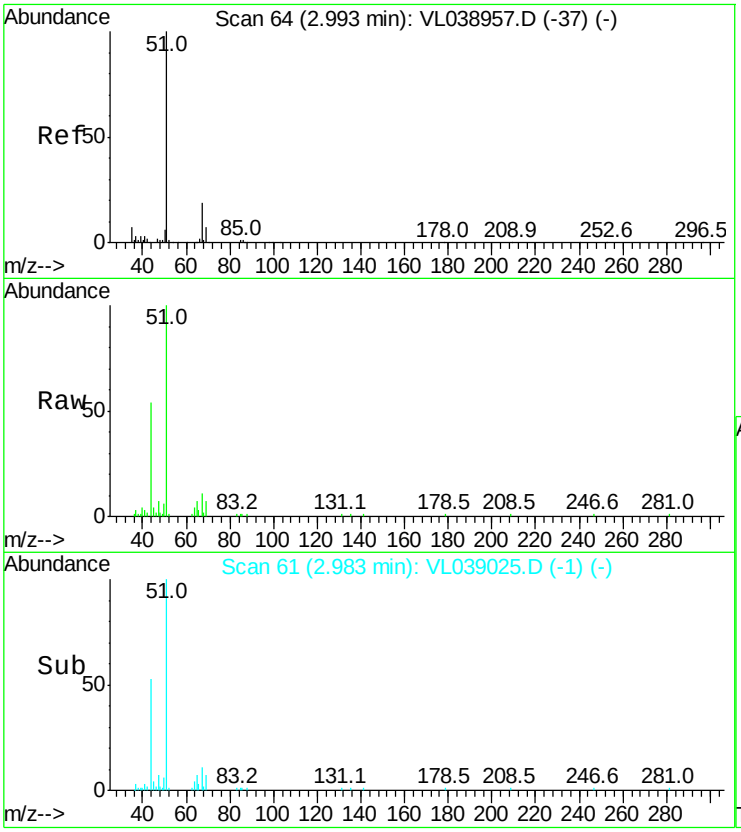




#2
Dichlorodifluoromethane
Concen: 0.15 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 85 Resp: 22811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.7 | 25.7 | 38.5 |



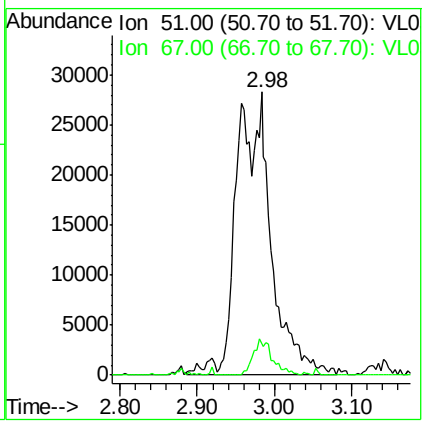


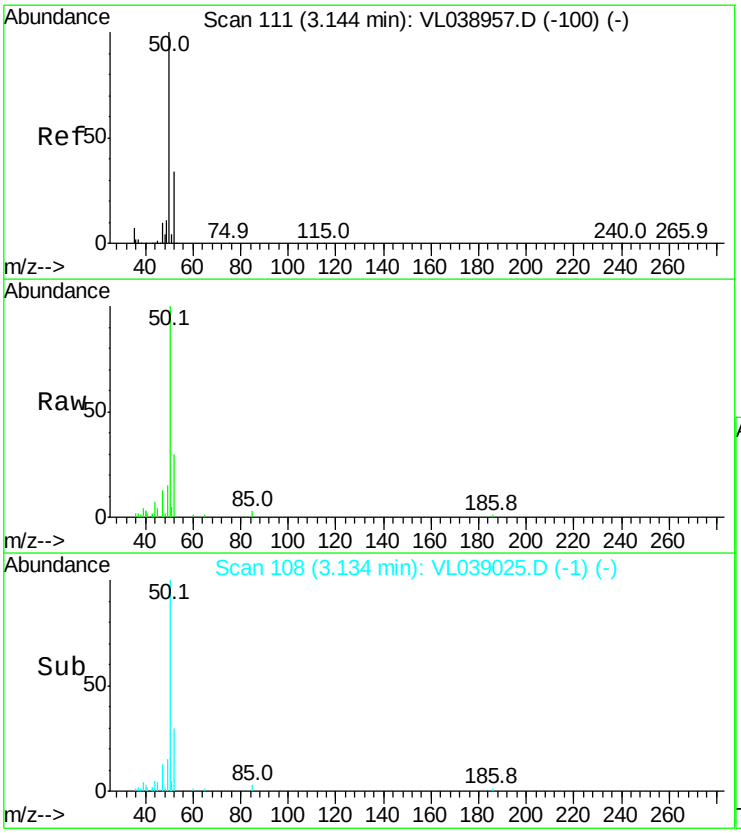

#3
Chlorodifluoromethane
Concen: 0.74 ppbv
RT: 2.98
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 51 Resp: 87728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 7.6 | 15.8 | 23.8# |

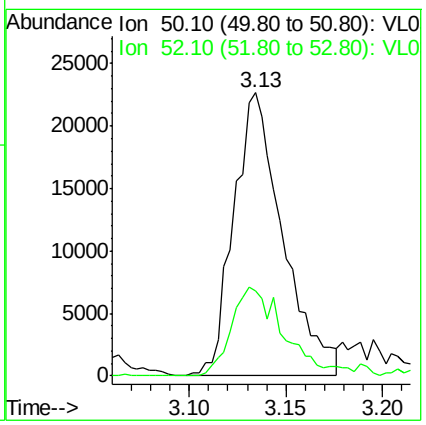


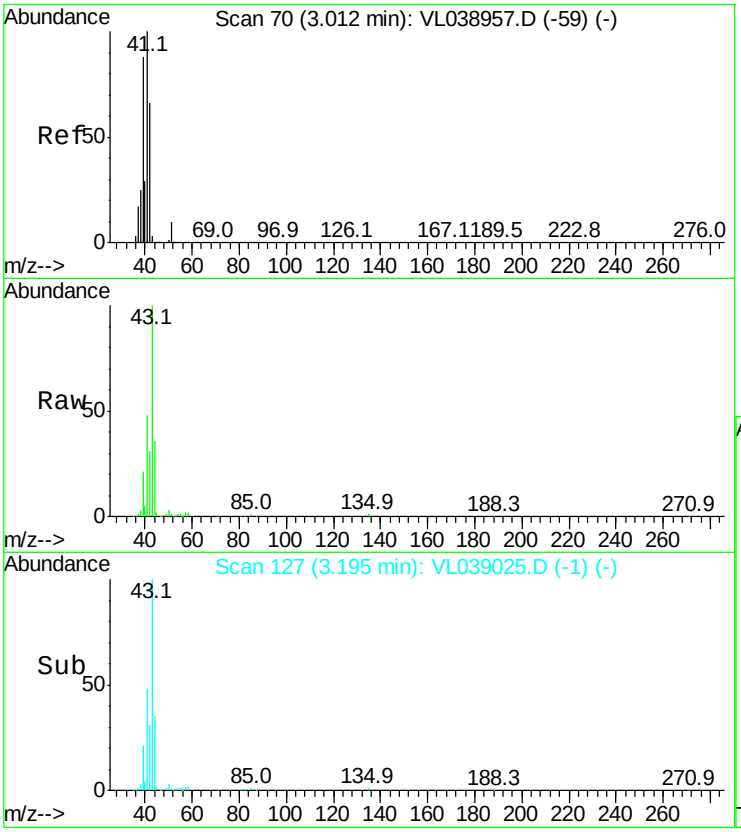




#4
Chloromethane
Concen: 0.67 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 50 Resp: 40042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.0 | 27.3 | 40.9 |



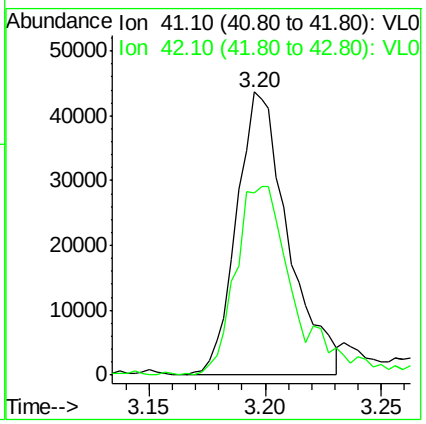


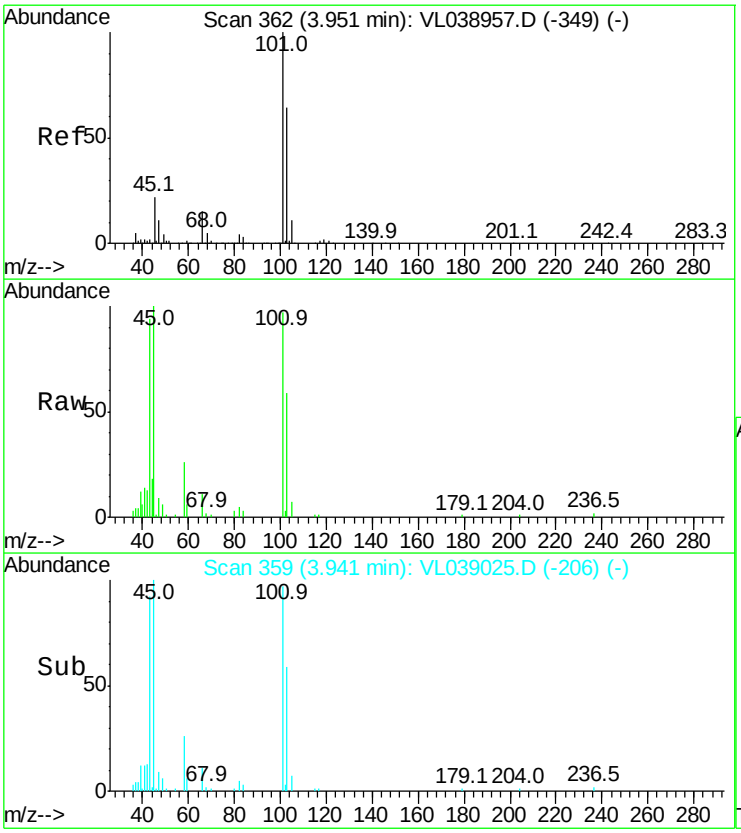

#9
Propene
Concen: 1.30 ppbv
RT: 3.20
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 41 Resp: 67583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 80.6 | 58.3 | 87.5 |

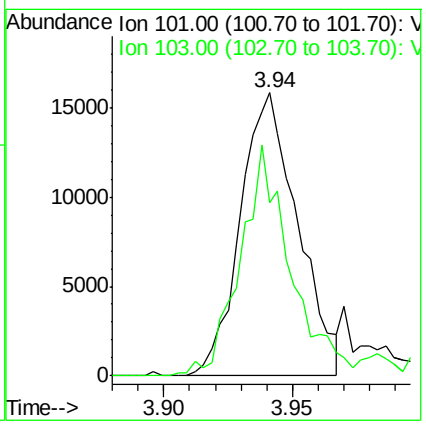


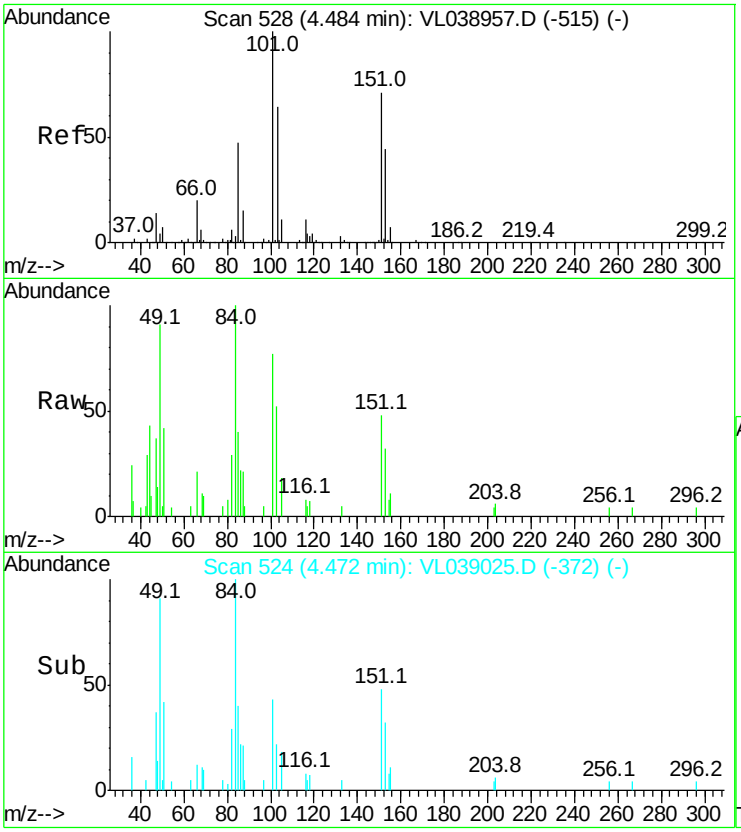




#11
Trichlorofluoromethane
Concen: 0.19 ppbv
RT: 3.94 min Scan# 359
Delta R.T. -0.01 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion:101 Resp: 24642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.1 | 51.5 | 77.3 |



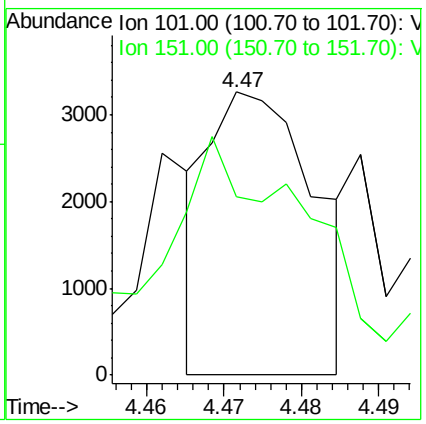


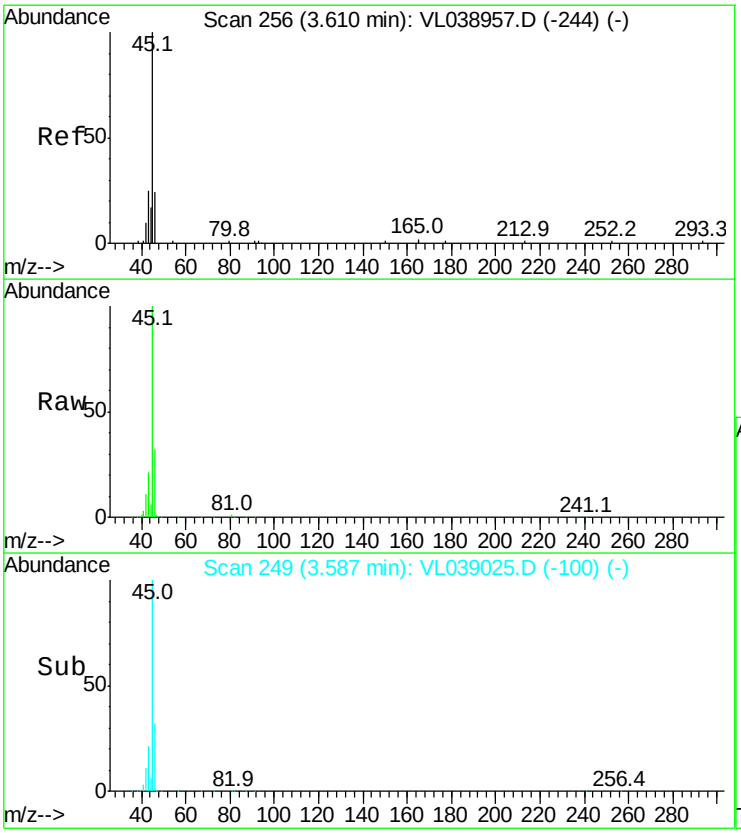

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.03 ppbv
RT: 4.47
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:101 Resp: 3103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 141.7 | 55.4 | 83.0# |

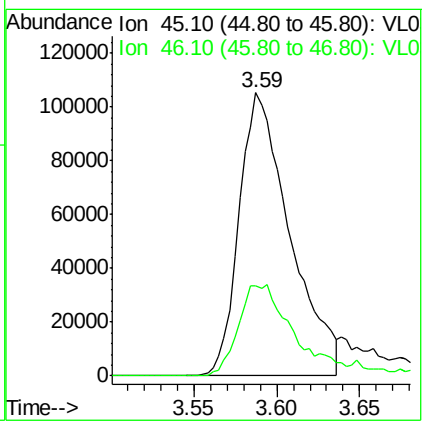


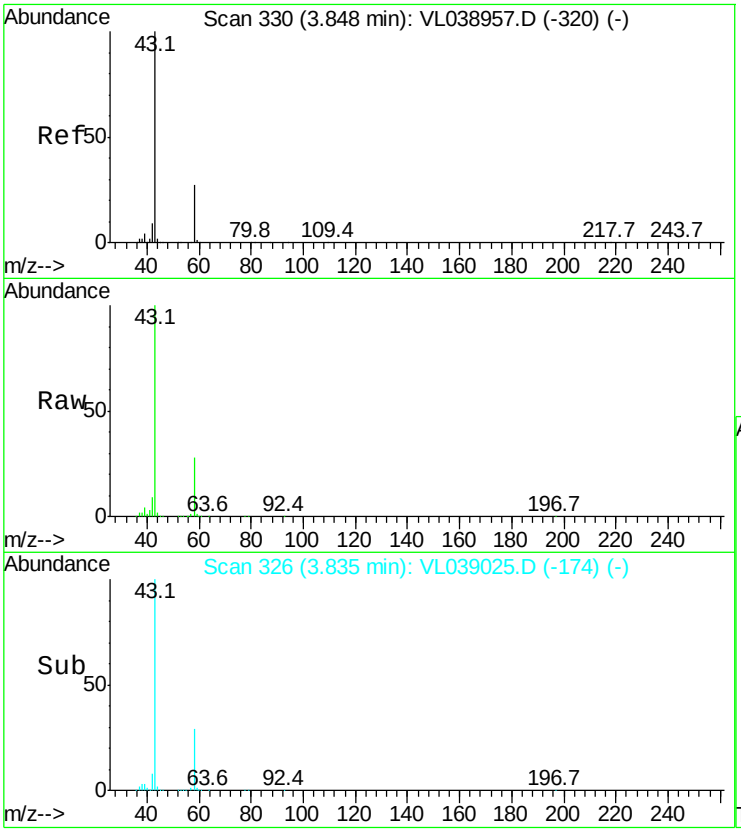




#13
Ethanol
Concen: 60.98 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 45 Resp: 224422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.9 | 18.0 | 72.2 |



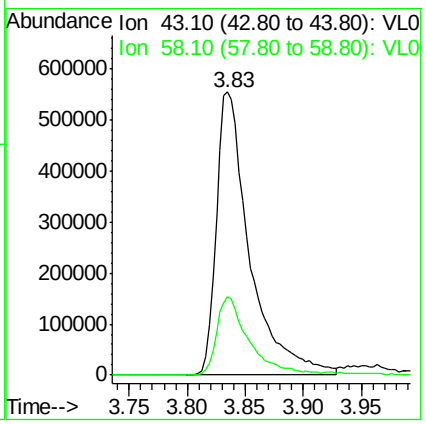


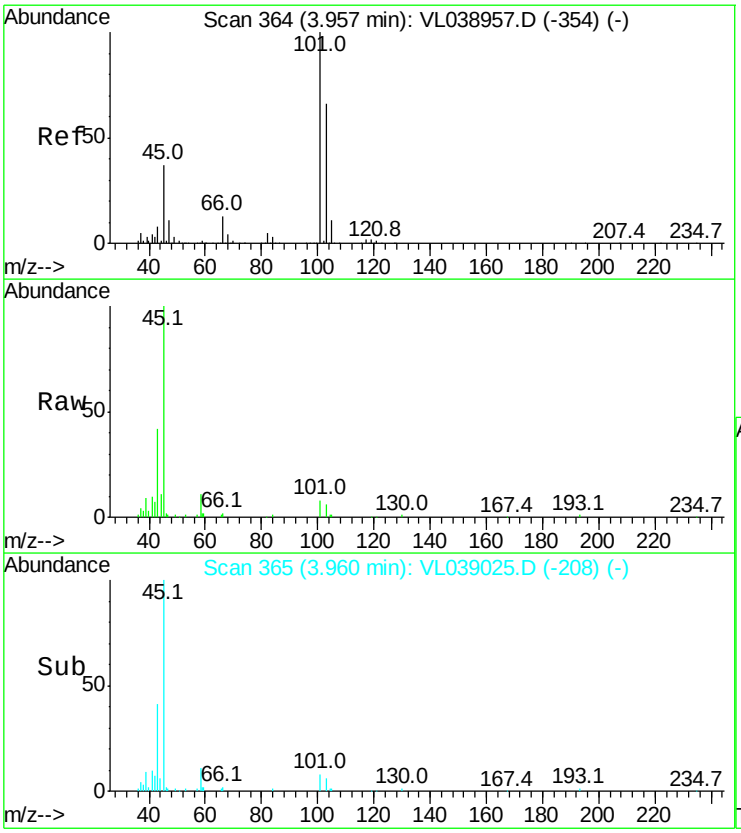

#15
Acetone
Concen: 12.20 ppbv
RT: 3.83
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 43 Resp: 1104733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.7 | 21.3 | 31.9 |

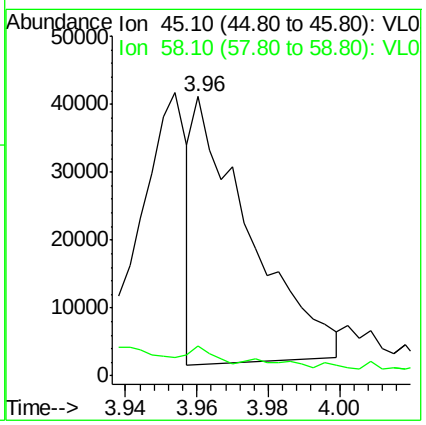


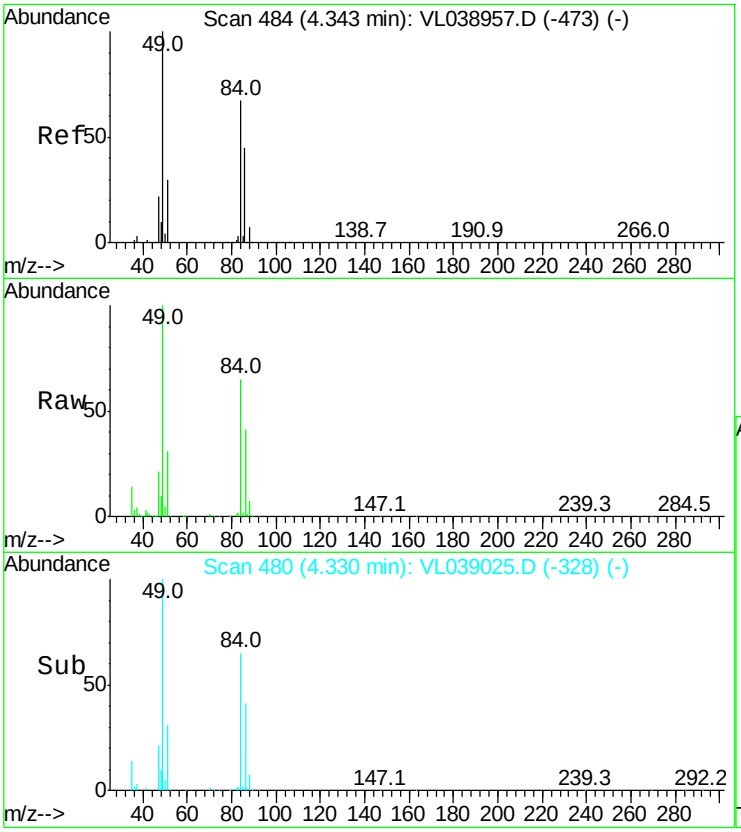




#19
Isopropyl Alcohol
Concen: 1.00 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.00 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 45 Resp: 42839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 1.4 | 2.2# |



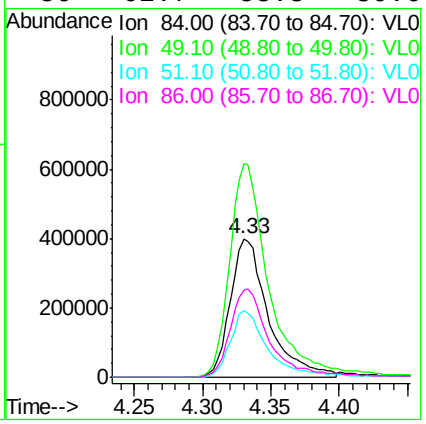


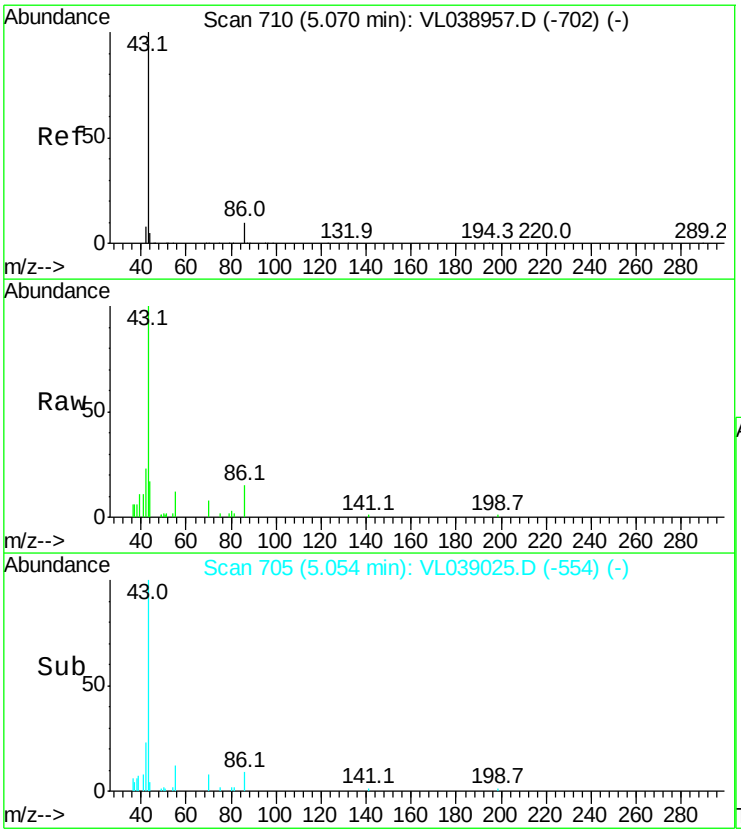

#20
Methylene Chloride
Concen: 22.66 ppbv
RT: 4.33
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 84 Resp: 773255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 153.9 | 119.9 | 179.9 |
| 51 | 47.9 | 35.7 | 53.5 |
| 86 | 62.7 | 53.8 | 80.6 |

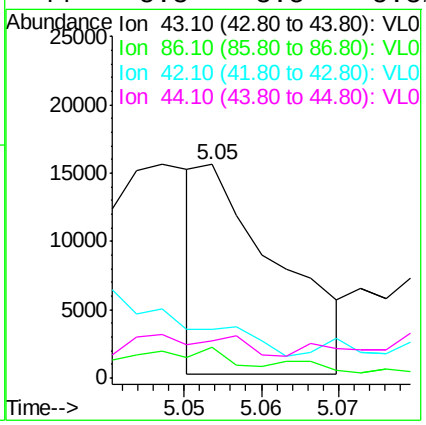


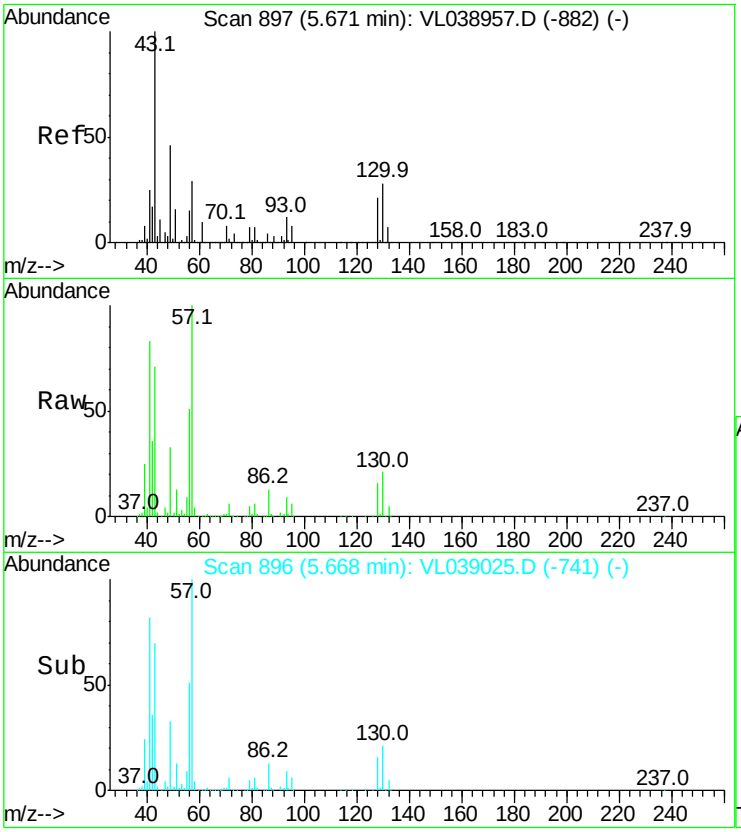




#23
Vinyl Acetate
Concen: 0.15 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 43 Resp: 10797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 17.0 | 6.6 | 9.8# |
| 42 | 6.0 | 8.1 | 12.1# |
| 44 | 5.3 | 3.5 | 5.3# |



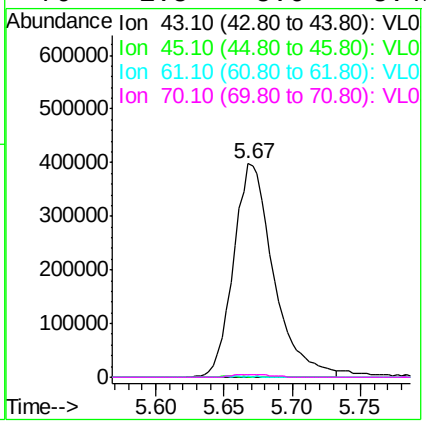


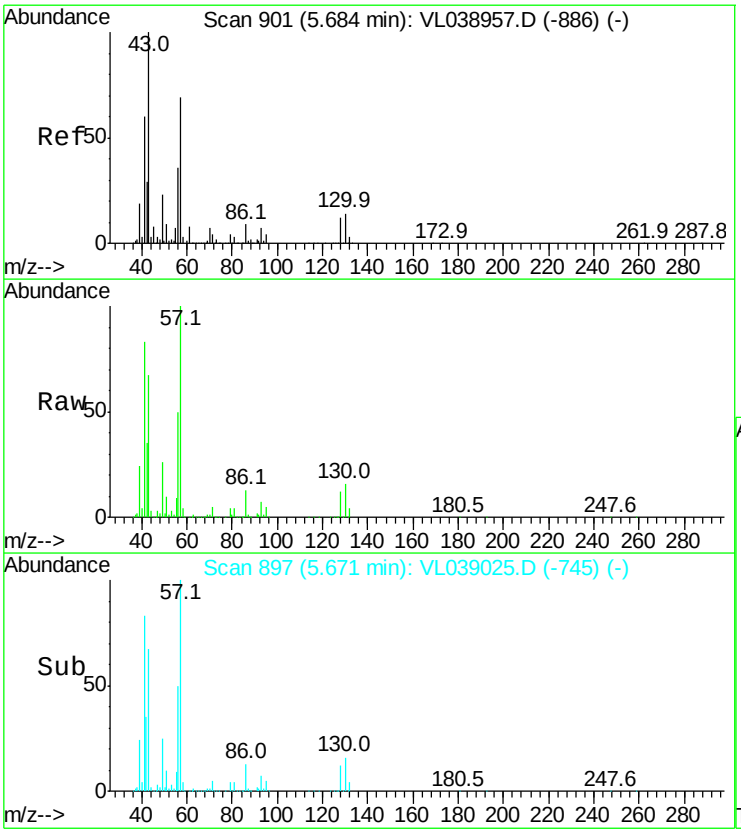

#25
Ethyl Acetate
Concen: 3.74 ppbv
RT: 5.67
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 43 Resp: 810628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.6 | 8.1 | 12.1# |
| 61 | 0.5 | 7.8 | 11.6# |
| 70 | 1.5 | 5.6 | 8.4# |

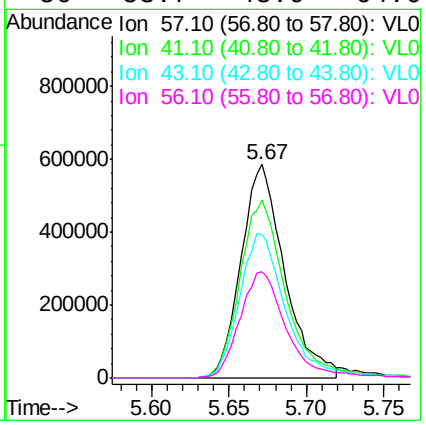


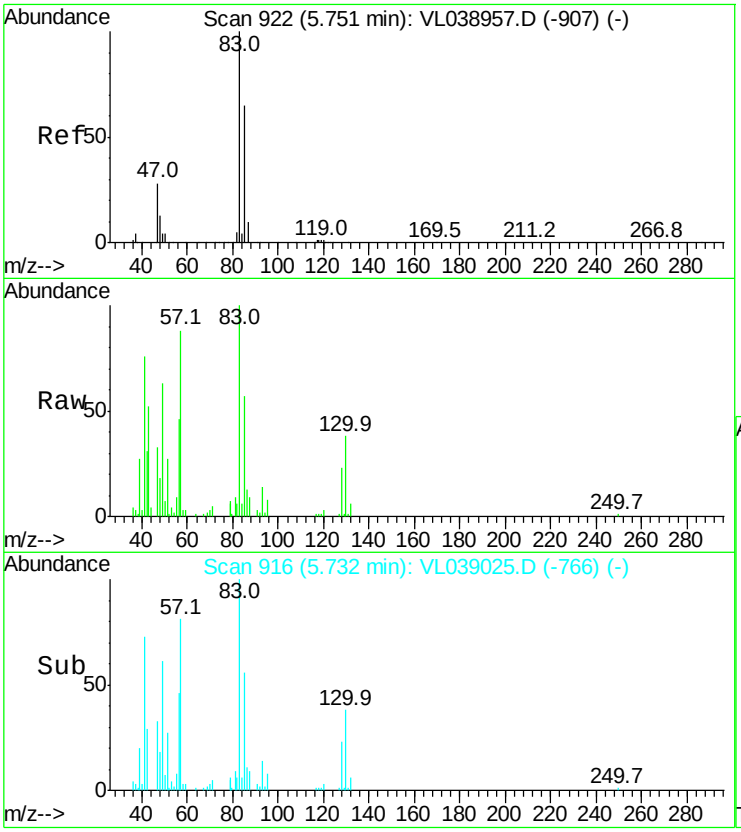




#26
Hexane
Concen: 11.91 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 57 Resp: 1146889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 89.4 | 75.2 | 112.8 |
| 43 | 72.7 | 190.8 | 286.2# |
| 56 | 53.7 | 43.0 | 64.6 |



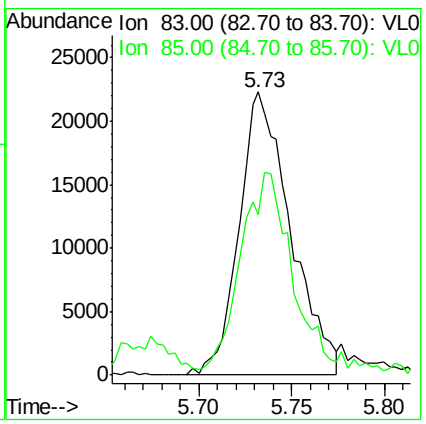


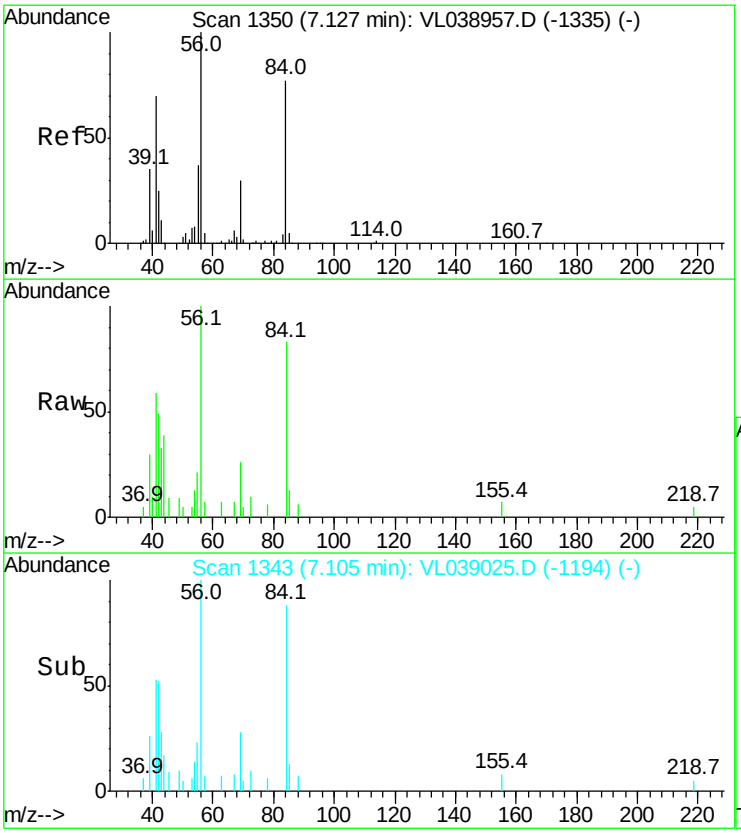

#29
Chloroform
Concen: 0.28 ppbv
RT: 5.73
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 83 Resp: 43180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 52.8 | 51.8 | 77.6 |

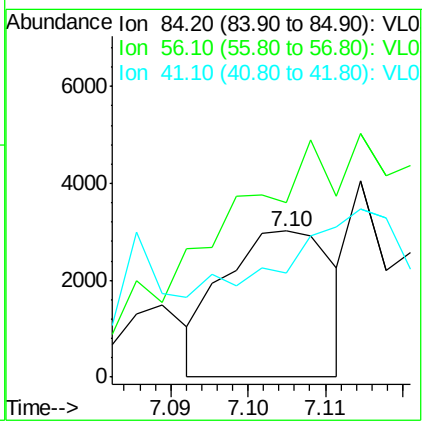


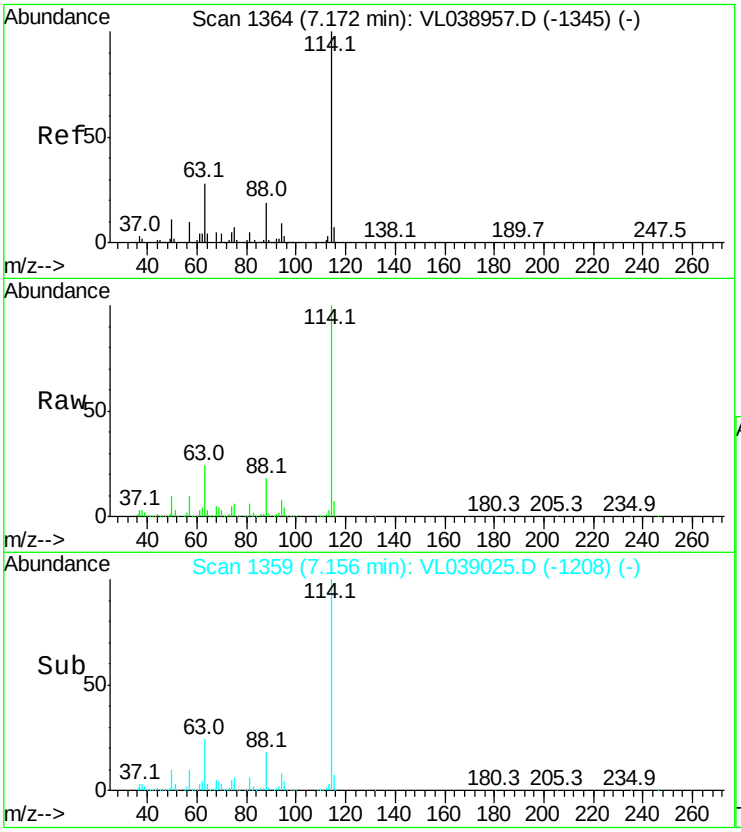




#30
Cyclohexane
Concen: 0.04 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 84 Resp: 2952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 115.3 | 172.9# |
| 41 | 0.0 | 72.0 | 108.0# |



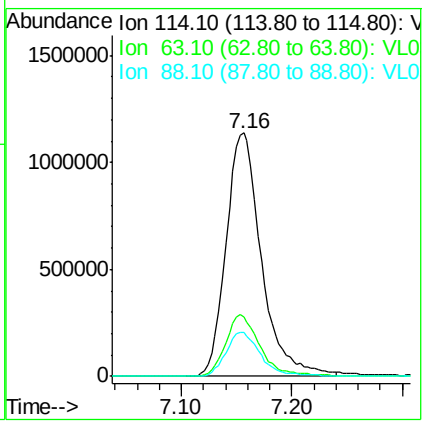


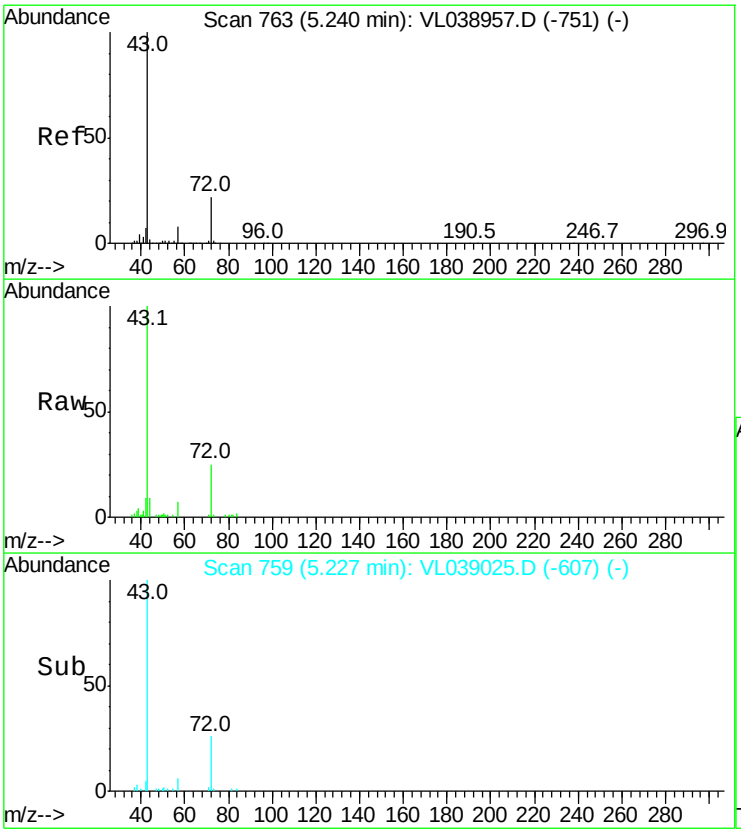

#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.16
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:114 Resp: 2527815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.0 | 22.6 | 33.8 |
| 88 | 18.2 | 15.4 | 23.0 |

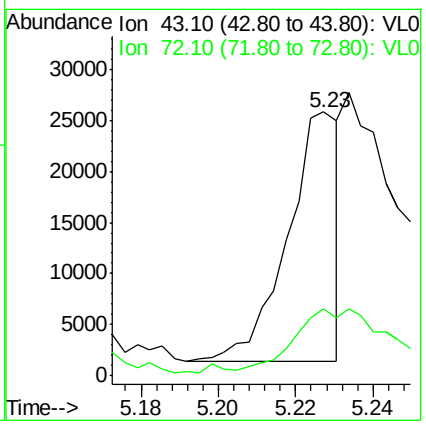


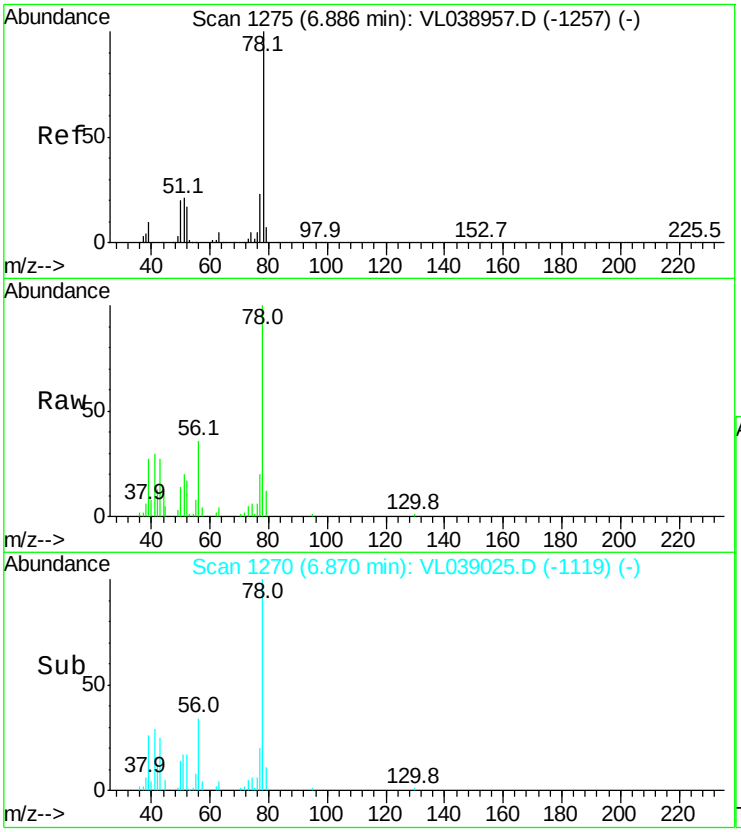




#34
2-Butanone
Concen: 0.17 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.01 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 43 Resp: 22390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 65.6 | 17.8 | 26.6# |



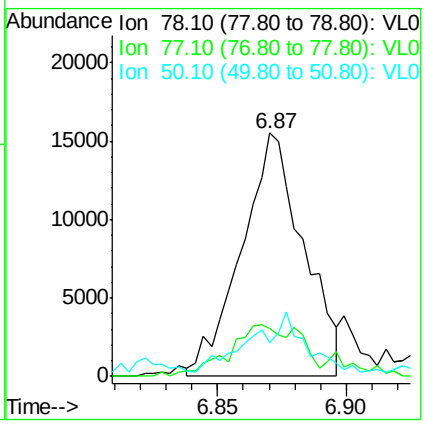


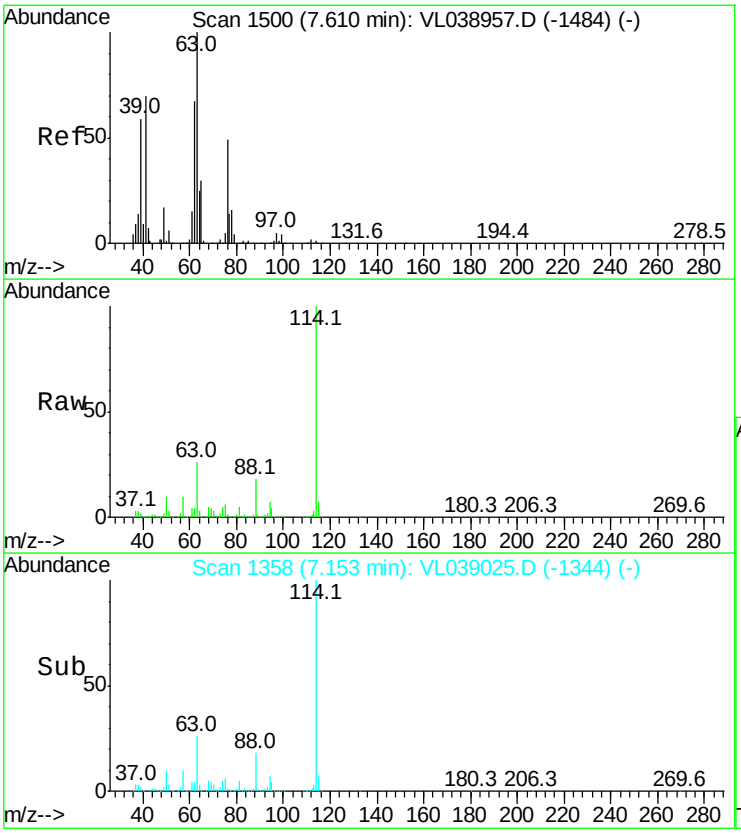

#36
Benzene
Concen: 0.12 ppbv
RT: 6.87
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 78 Resp: 26004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.5 | 18.6 | 28.0# |
| 50 | 11.7 | 15.6 | 23.4# |

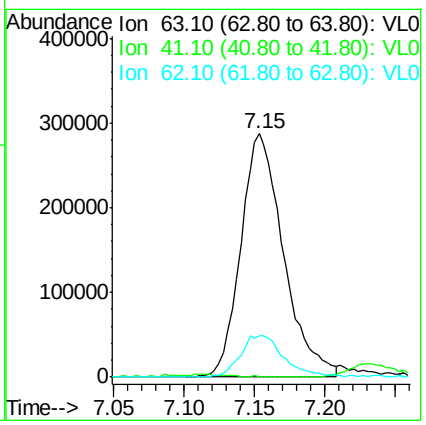


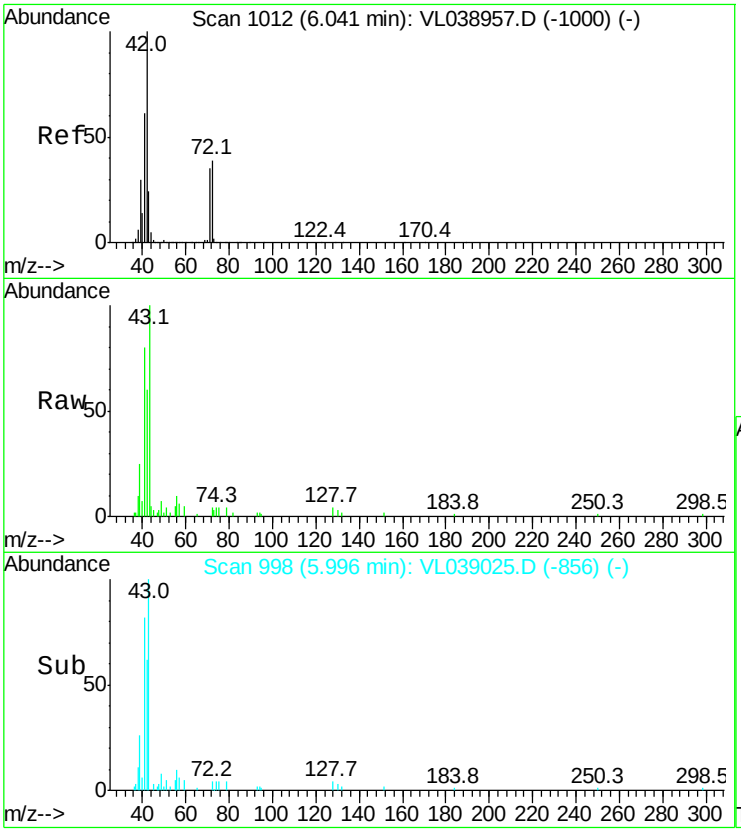




#39
1,2-Dichloropropane
Concen: 7.24 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.46 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 63 Resp: 609783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 55.9 | 83.9# |
| 62 | 17.1 | 53.8 | 80.6# |



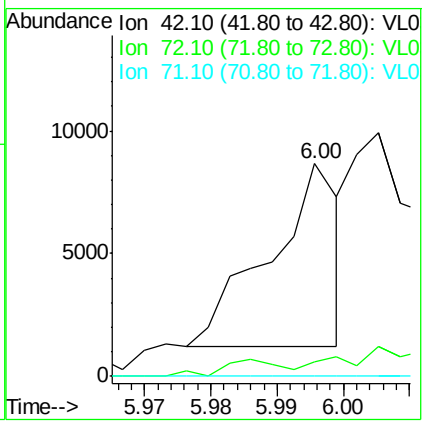


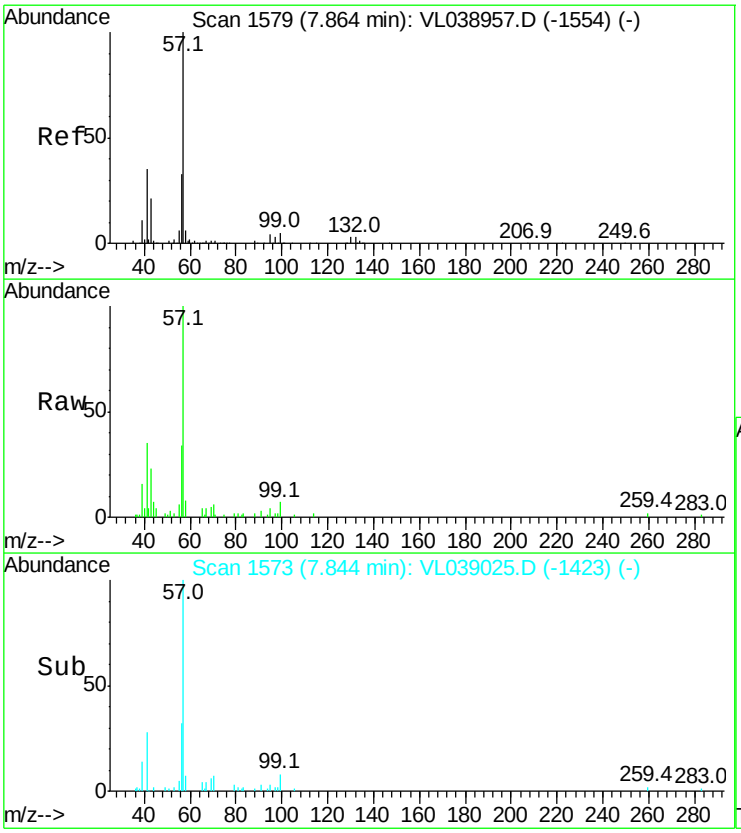

#41
Tetrahydrofuran
Concen: 0.06 ppbv
RT: 6.00
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 42 Resp: 5490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 31.4 | 31.8 | 47.6# |
| 71 | 0.0 | 30.6 | 45.8# |

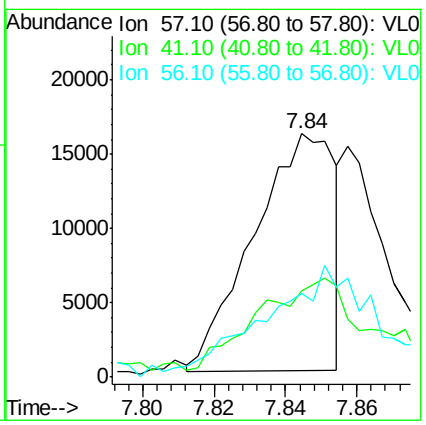


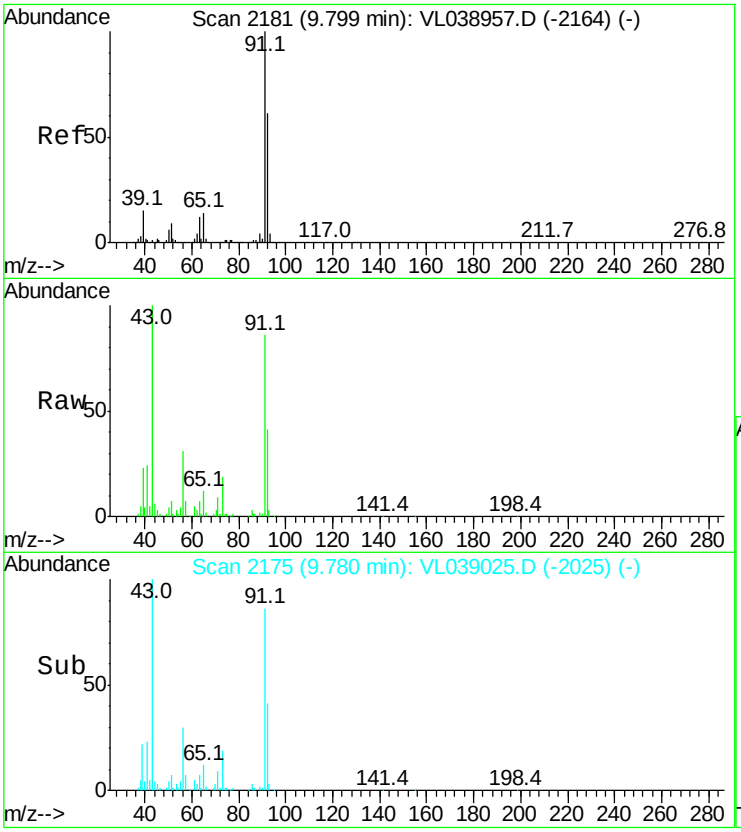




#44
2,2,4-Trimethylpentane
Concen: 0.07 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 57 Resp: 25133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 26.3 | 39.5# |
| 56 | 0.0 | 24.6 | 37.0# |



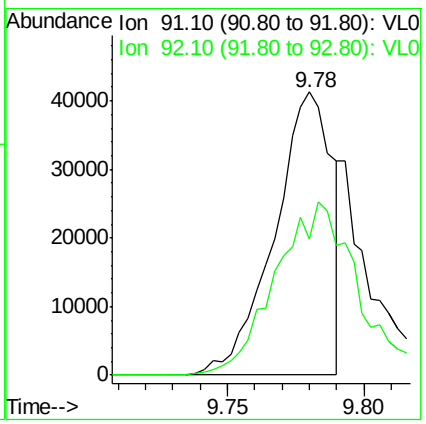


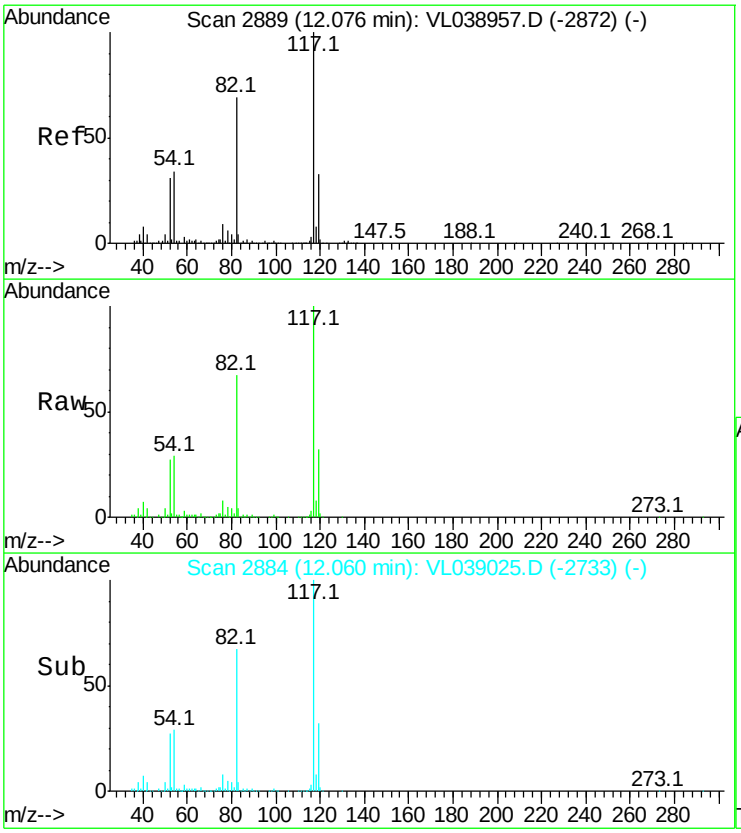

#53
Toluene
Concen: 0.25 ppbv
RT: 9.78
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 91 Resp: 60818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 88.1 | 48.2 | 72.2# |

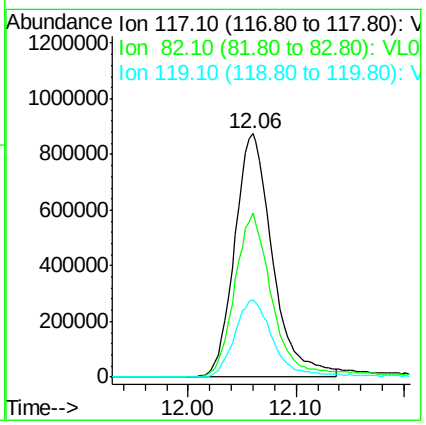


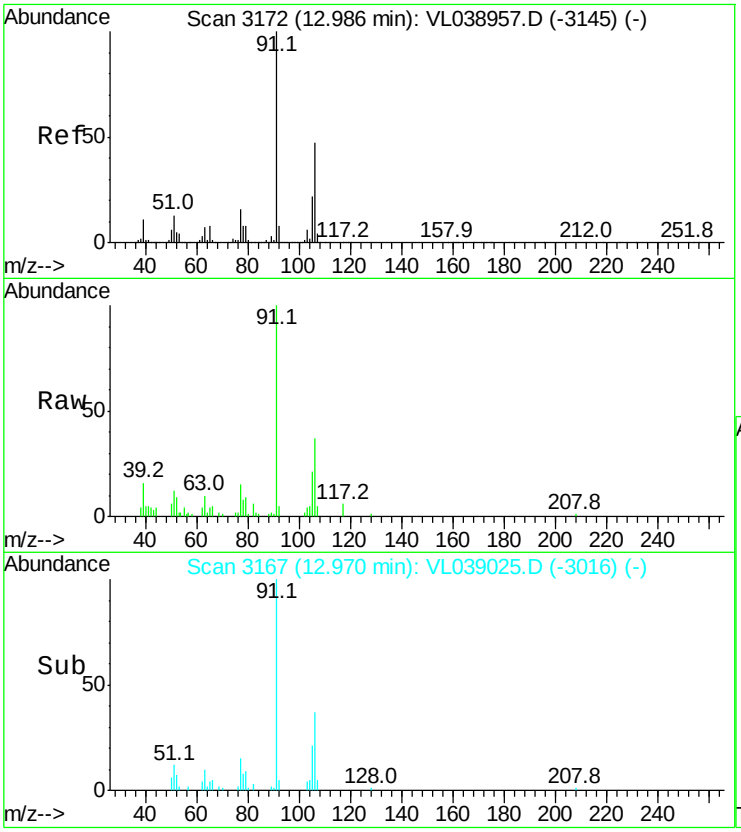




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion:117 Resp: 2137442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.1 | 57.0 | 85.6 |
| 119 | 33.2 | 27.2 | 40.8 |



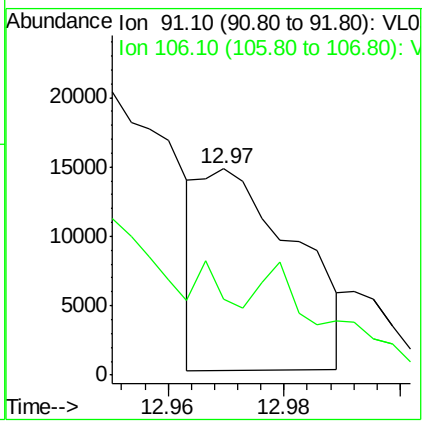


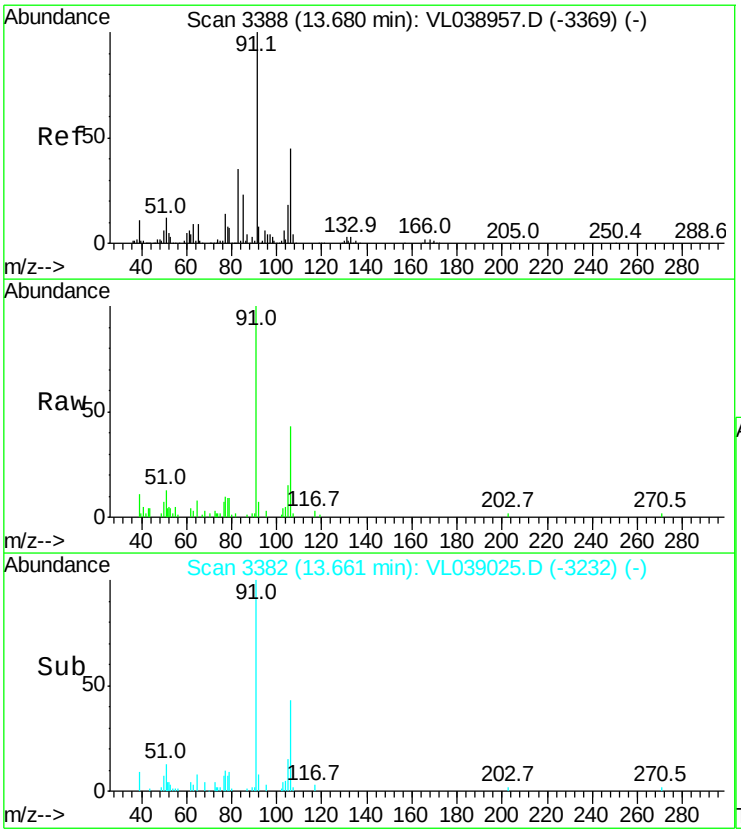

#59
m/p-Xylene
Concen: 0.06 ppbv
RT: 12.97
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 91 Resp: 16609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 34.6 | 52.0# |

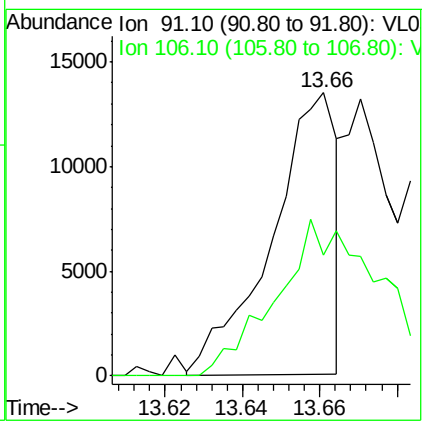


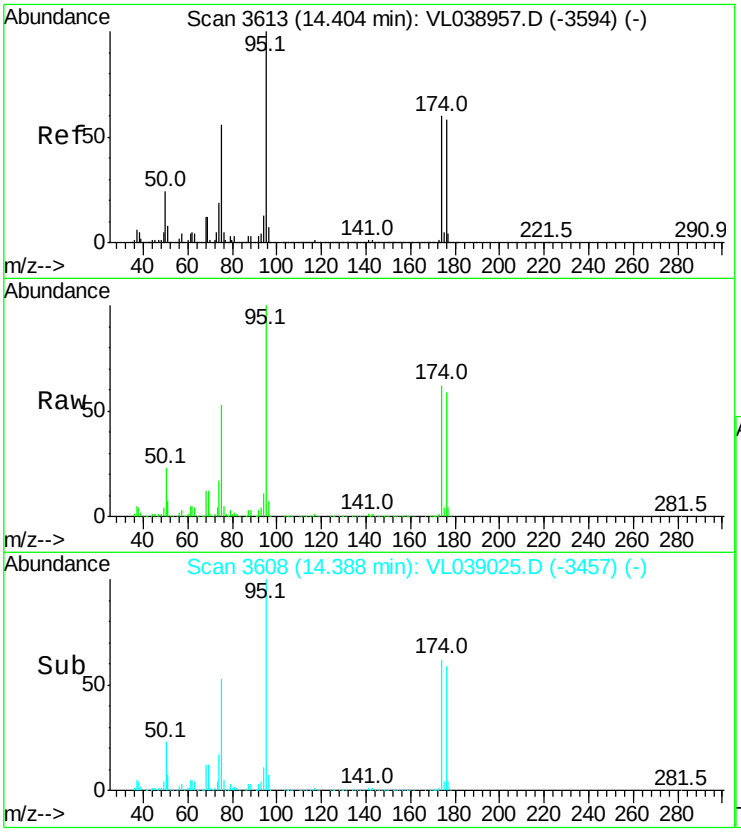




#60
o-Xylene
Concen: 0.06 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion: 91 Resp: 15805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 94.6 | 22.2 | 66.6# |



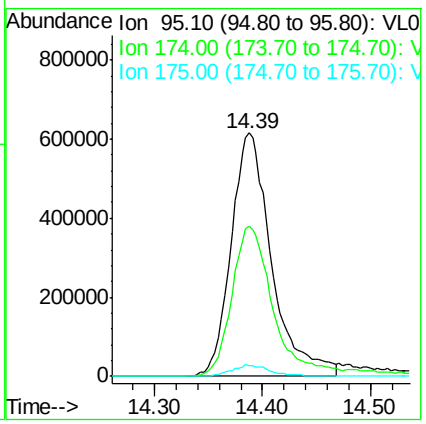


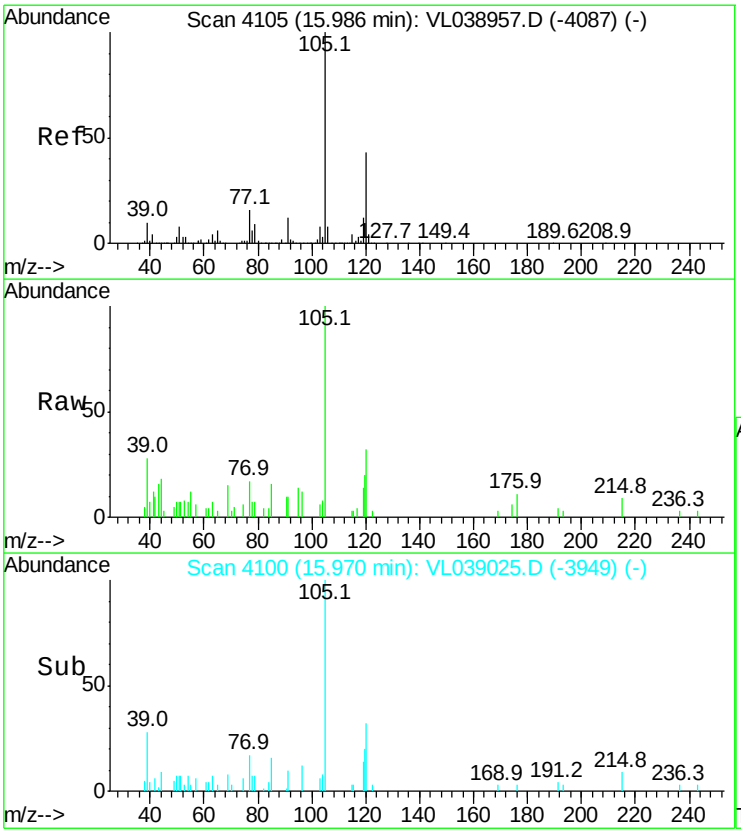

#68
1-Bromo-4-Fluorobenzene
Concen: 9.51 ppbv
RT: 14.39
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 95 Resp: 1609478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.7 | 50.8 | 76.2 |
| 175 | 4.8 | 3.8 | 5.6 |

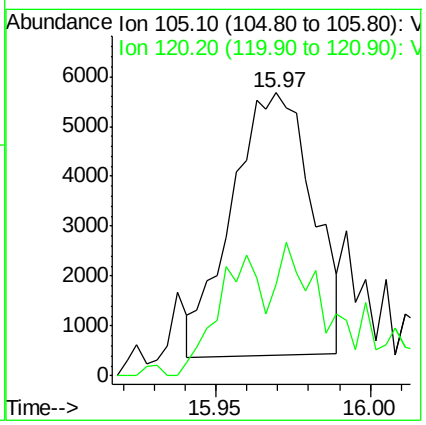


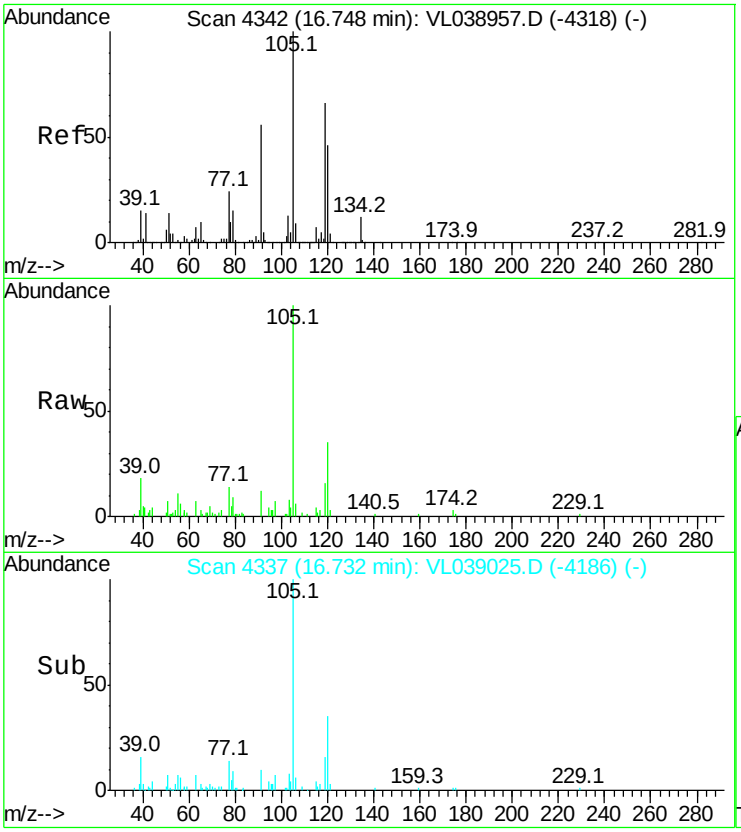




#73
1,3,5-Trimethylbenzene
Concen: 0.04 ppbv
RT: 15.97 min Scan# 4100
Delta R.T. -0.02 min
Lab File: VL039025.D
Acq: 11 May 2022 18:25

Tgt Ion:105 Resp: 9563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 34.9 | 34.4 | 51.6 |






#74
1,2,4-Trimethylbenzene
Concen: 0.13 ppbv
RT: 16.73
Delta R.T
Lab File:
Acq: 11 May 2022 18:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:105 Resp: 36549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.5 | 36.9 | 55.3# |
| 91 | 12.1 | 45.0 | 67.4# |
| 77 | 14.0 | 19.2 | 28.8# |