Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032443.D
Acq On : 31 Aug 2018 16:23
Operator : SY/AP
Sample : J4472-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Quant Time: Sep 01 02:01:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.80 | 49 | 1837758 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.34 | 114 | 3455637 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.29 | 117 | 3498106 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.63 | 95 | 2678040 | 10.31 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 103.10% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.11 | 85 | 115254 | 0.490 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 3.04 | 51 | 122397 | 0.736 | ppbv | # | 89 |
| 4) Chloromethane | 3.20 | 50 | 123141 | 1.222 | ppbv | | 93 |
| 6) Bromomethane | 3.54 | 94 | 4198 | 0.080 | ppbv | | 93 |
| 7) Chloroethane | 3.63 | 64 | 4054 | 0.118 | ppbv | # | 56 |
| 9) Propene | 3.06 | 41 | 596384 | 8.887 | ppbv | | 98 |
| 10) Heptane | 8.29 | 43 | 15866 | 0.066 | ppbv | # | 34 |
| 11) Trichlorofluoromethane | 4.04 | 101 | 706571 | 3.333 | ppbv | | 96 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.58 | 101 | 13428 | 0.093 | ppbv | | 94 |
| 13) Ethanol | 3.68 | 45 | 588280 | 28.124 | ppbv | | 96 |
| 15) Acetone | 3.93 | 43 | 3054624 | 18.458 | ppbv | | 98 |
| 16) 1,3-Butadiene | 3.37 | 39 | 19942 | 0.256 | ppbv | # | 38 |
| 17) tert-Butyl alcohol | 4.40 | 59 | 20004 | 0.785 | ppbv | # | 100 |
| 19) Isopropyl Alcohol | 4.07 | 45 | 1780486 | 16.400 | ppbv | # | 98 |
| 20) Methylene Chloride | 4.44 | 84 | 433473 | 6.869 | ppbv | | 95 |
| 21) Allyl Chloride | 4.44 | 41 | 20320 | 0.185 | ppbv | # | 65 |
| 23) Vinyl Acetate | 5.20 | 43 | 546607 | 1.993 | ppbv | # | 90 |
| 25) Ethyl Acetate | 5.82 | 43 | 584315 | 1.495 | ppbv | # | 91 |
| 26) Hexane | 5.82 | 57 | 487256 | 2.784 | ppbv | # | 63 |
| 27) Carbon Disulfide | 4.66 | 76 | 9688 | 0.060 | ppbv | # | 57 |
| 29) Chloroform | 5.89 | 83 | 59248 | 0.222 | ppbv | | 93 |
| 34) 2-Butanone | 5.37 | 43 | 1043672 | 4.547 | ppbv | | 100 |
| 35) Carbon Tetrachloride | 7.18 | 117 | 16204 | 0.070 | ppbv | | 85 |
| 36) Benzene | 7.05 | 78 | 235620 | 0.801 | ppbv | | 97 |
| 38) Trichloroethene | 8.01 | 130 | 34240 | 0.307 | ppbv | | 91 |
| 39) 1,2-Dichloropropane | 7.34 | 63 | 942459 | 7.490 | ppbv | # | 24 |
| 41) Tetrahydrofuran | 6.16 | 42 | 6629 | 0.053 | ppbv | # | 61 |
| 44) 2,2,4-Trimethylpentane | 8.03 | 57 | 84305 | 0.148 | ppbv | # | 71 |
| 50) 4-Methyl-2-Pentanone | 8.93 | 43 | 125231 | 0.362 | ppbv | | 93 |
| 51) 2-Hexanone | 10.32 | 43 | 137207 | 0.616 | ppbv | # | 97 |
| 52) Tetrachloroethene | 11.42 | 164 | 45234 | 0.496 | ppbv | | 91 |
| 53) Toluene | 10.00 | 91 | 1045353 | 3.401 | ppbv | | 100 |
| 57) Chlorobenzene | 12.35 | 112 | 8609 | 0.031 | ppbv | # | 40 |
| 58) Ethyl Benzene | 12.91 | 91 | 49819 | 0.119 | ppbv | | 91 |
| 59) m/p-Xylene | 13.21 | 91 | 26331 | 0.071 | ppbv | # | 31 |
| 60) o-Xylene | 13.90 | 91 | 111063 | 0.303 | ppbv | | 99 |
| 61) Styrene | 13.74 | 104 | 49270 | 0.208 | ppbv | | 93 |
| 69) p-Isopropyltoluene | 17.86 | 119 | 36695 | 0.071 | ppbv | # | 80 |
| 71) 2-Chlorotoluene | 15.76 | 91 | 13917 | 0.035 | ppbv | # | 49 |
| 72) 4-Ethyltoluene | 16.05 | 105 | 12823 | 0.032 | ppbv | # | 51 |
| 73) 1,3,5-Trimethylbenzene | 16.21 | 105 | 25444 | 0.063 | ppbv | | 87 |

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032443.D
Acq On : 31 Aug 2018 16:23
Operator : SY/AP
Sample : J4472-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Quant Time: Sep 01 02:01:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 74) 1,2,4-Trimethylbenzene | 16.98 | 105 | 89080 | 0.203 | ppbv # | 69 |
| 75) 1,3-Dichlorobenzene | 17.36 | 146 | 8232460 | 31.649 | ppbv | 99 |
| 76) 1,4-Dichlorobenzene | 17.36 | 146 | 8232460 | 34.109 | ppbv | 98 |
| 79) Naphthalene | 22.47 | 128 | 40500 | 0.114 | ppbv | 95 |
| 80) Naphthalene,2-methyl- | 25.16 | 142 | 8532 | 0.090 | ppbv | 87 |

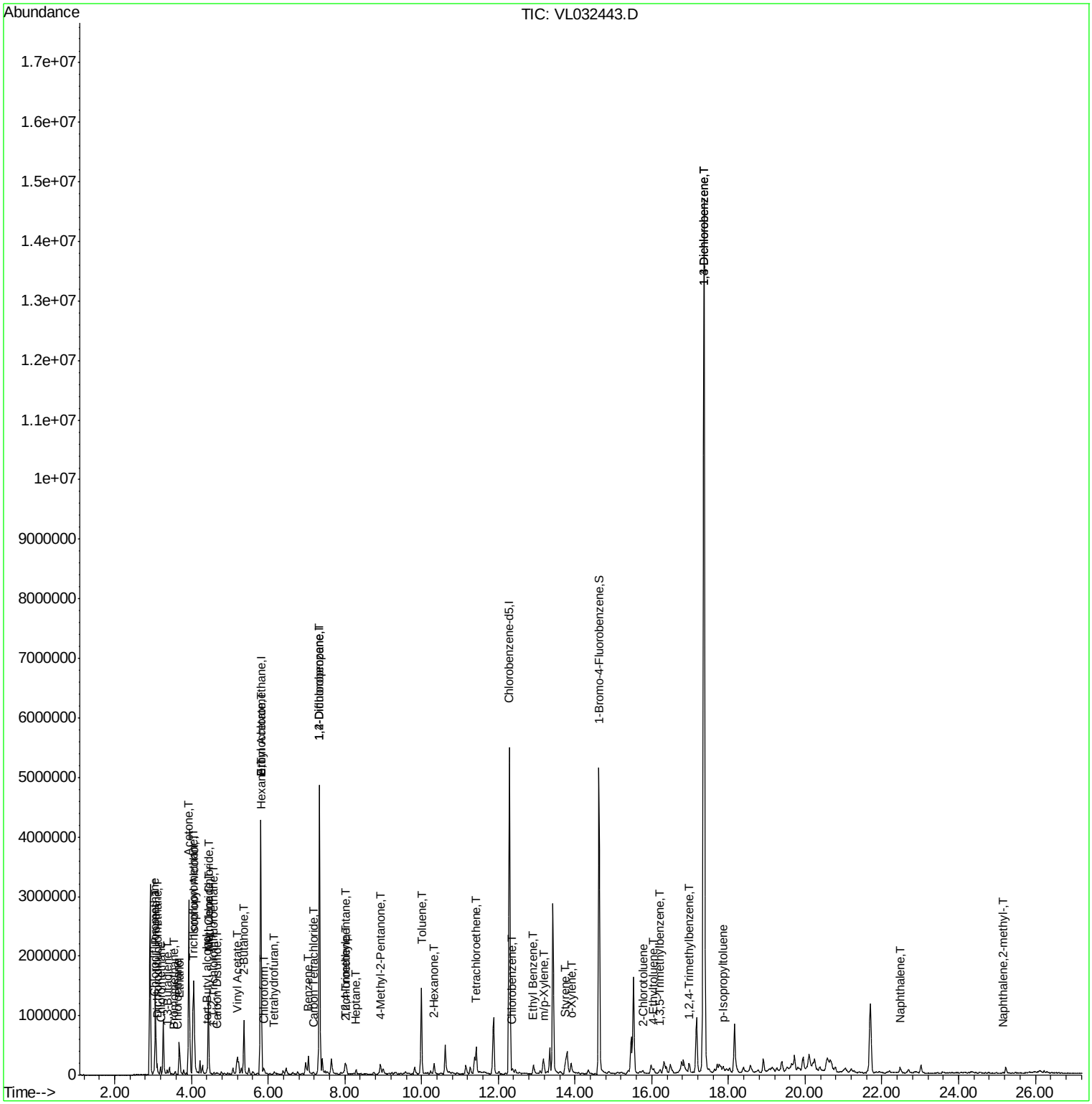
(#) = qualifier out of range (m) = manual integration (+) = signals summed

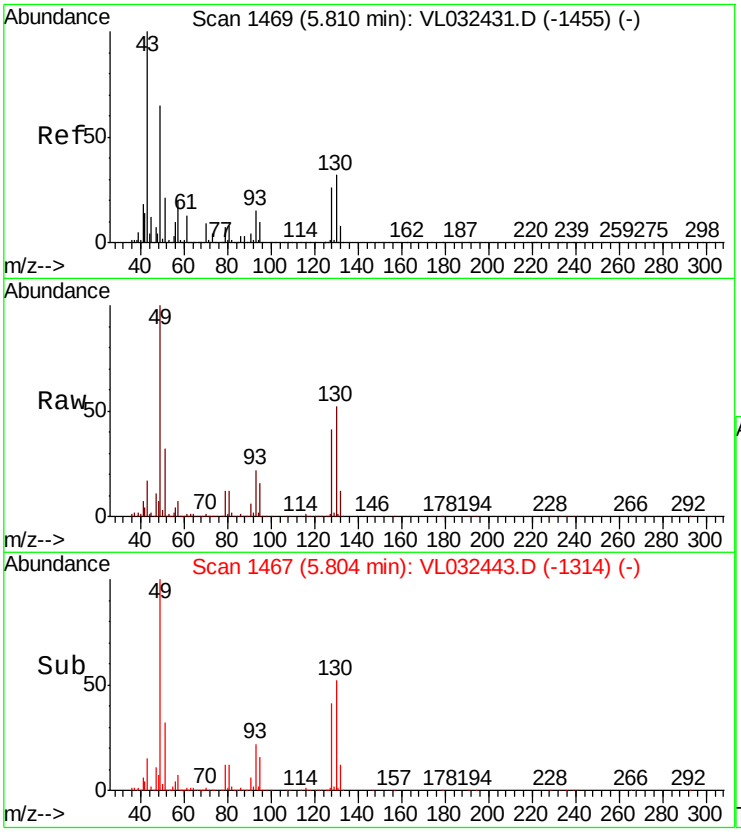
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032443.D
Acq On : 31 Aug 2018 16:23
Operator : SY/AP
Sample : J4472-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Quant Time: Sep 01 02:01:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration



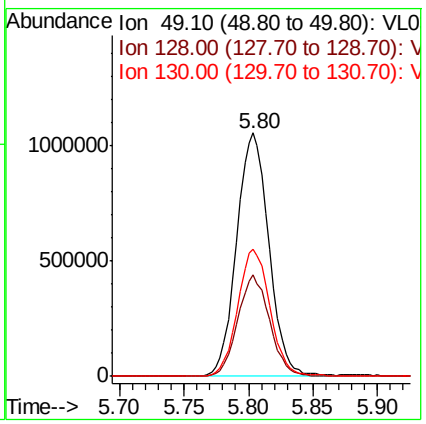


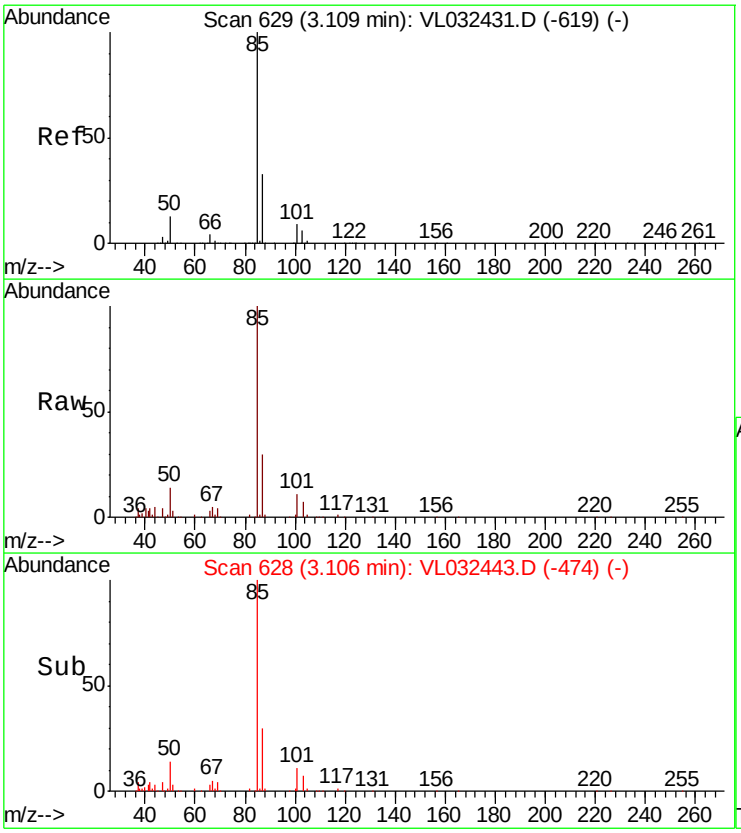

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.80 min Scan# 1467
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 49 Resp: 1837758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 41.2 | 20.7 | 62.1 |
| 130 | 52.5 | 26.6 | 79.7 |

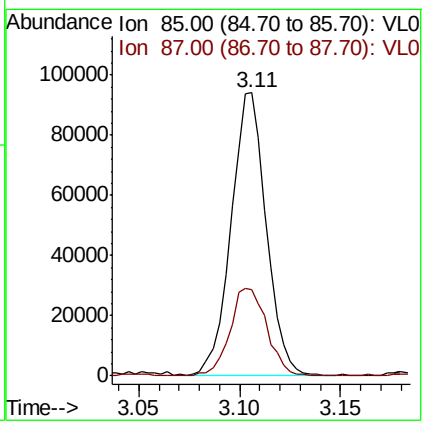


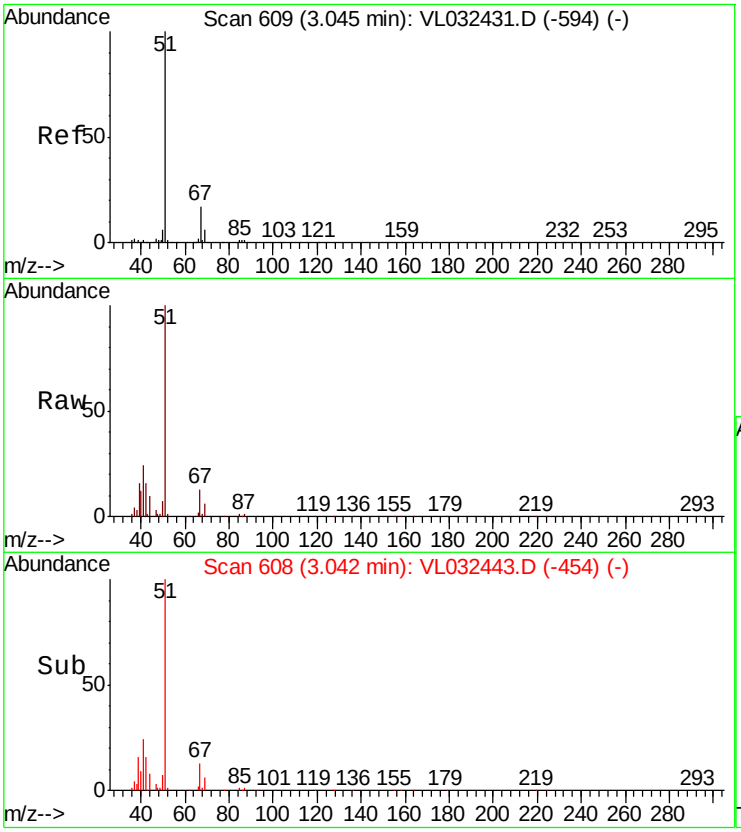




#2
Dichlorodifluoromethane
Concen: 0.490 ppbv
RT: 3.11 min Scan# 628
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 85 Resp: 115254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.3 | 26.2 | 39.4 |



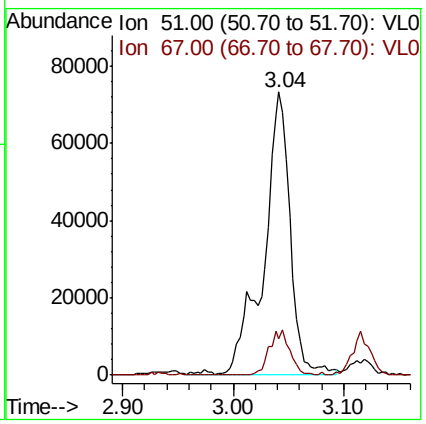


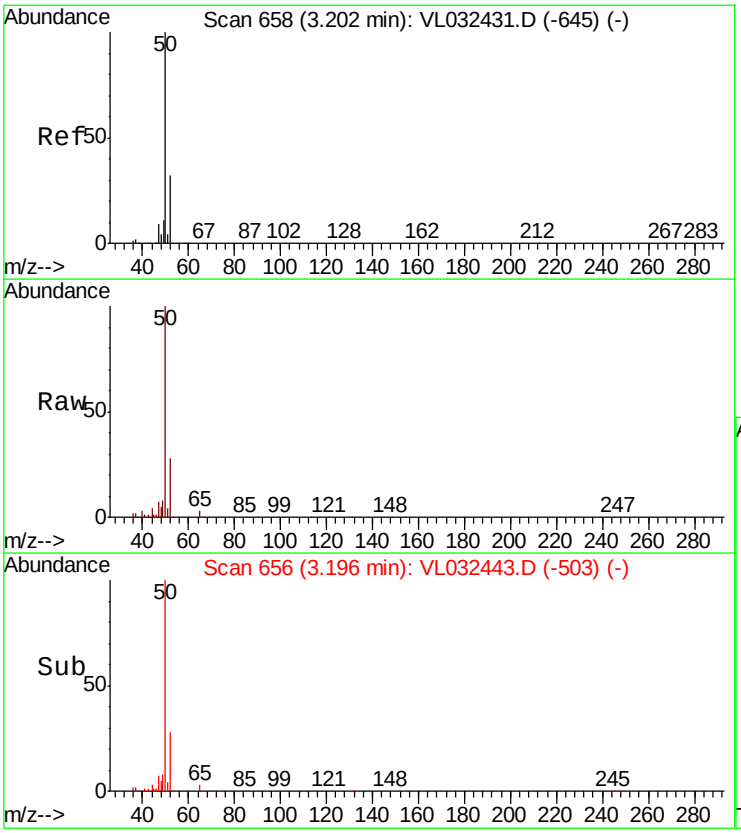

#3
Chlorodifluoromethane
Concen: 0.736 ppbv
RT: 3.04 min Scan# 608
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 51 Resp: 122397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 12.3 | 13.8 | 20.8# |

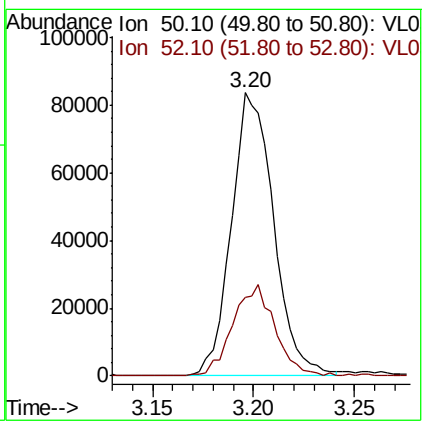


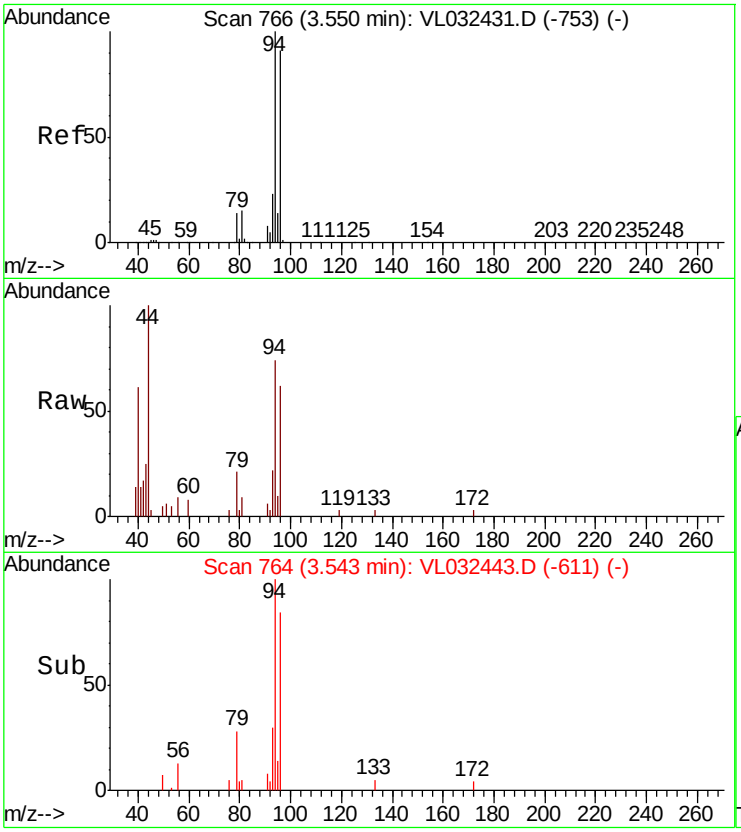




#4
Chloromethane
Concen: 1.222 ppbv
RT: 3.20 min Scan# 656
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 50 Resp: 123141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.0 | 25.6 | 38.4 |



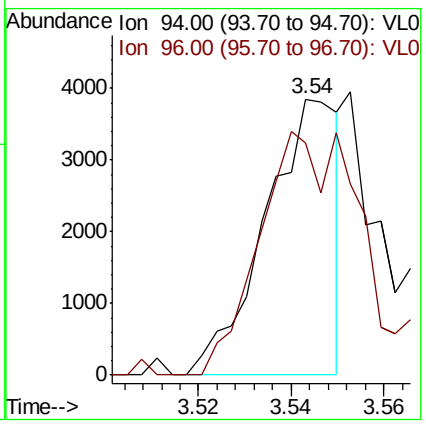


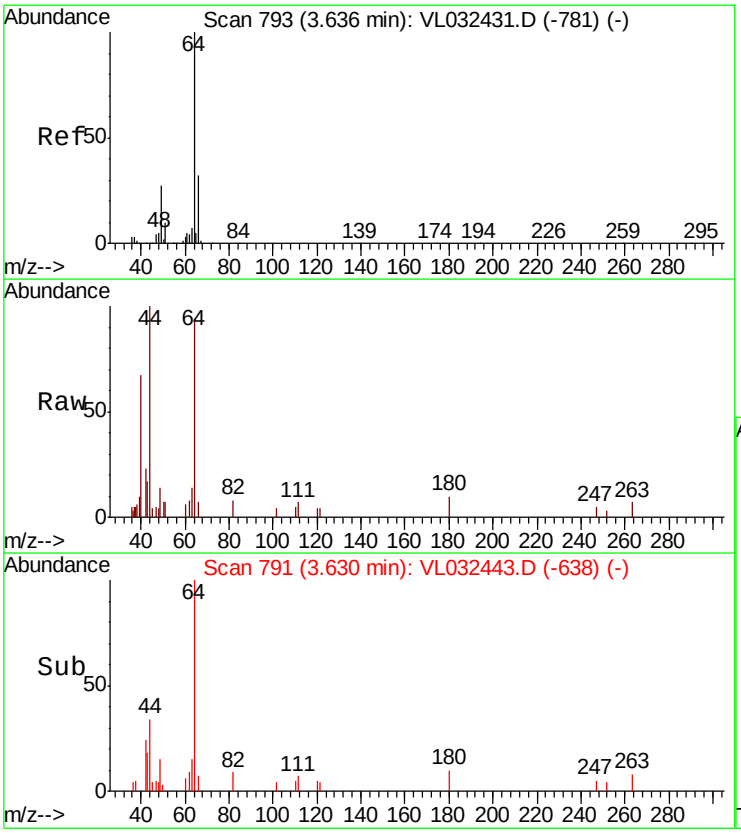

#6
Bromomethane
Concen: 0.080 ppbv
RT: 3.54 min Scan# 764
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 94 Resp: 4198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 84.1 | 72.8 | 109.2 |

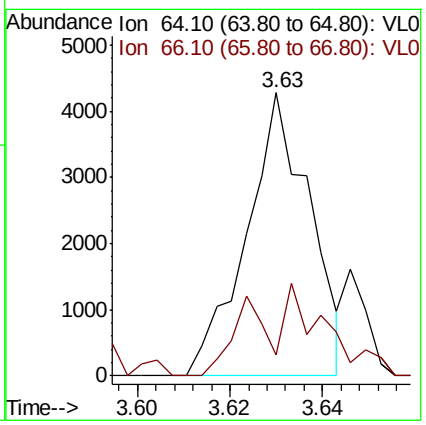


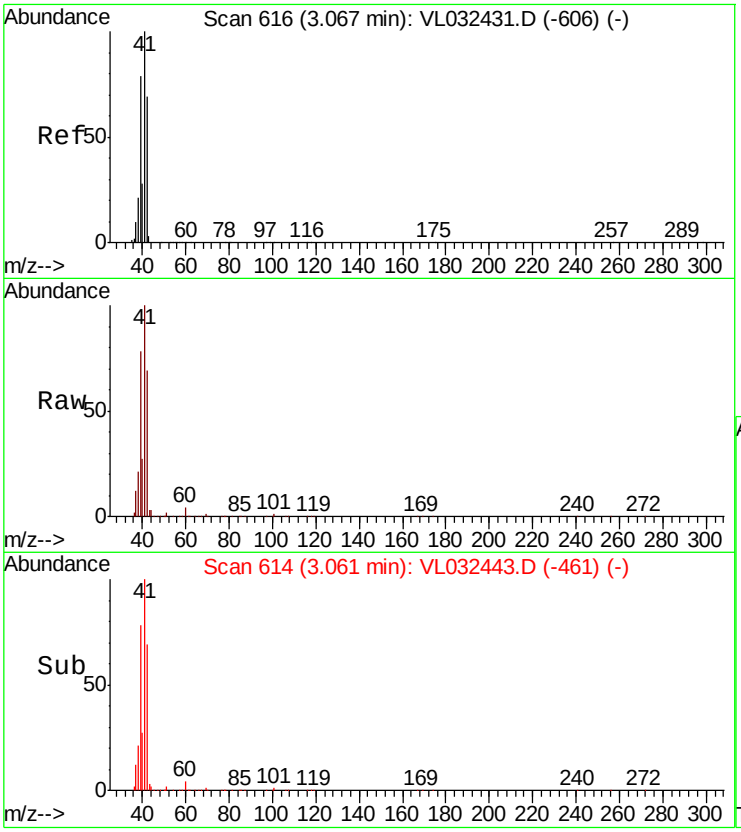




#7
Chloroethane
Concen: 0.118 ppbv
RT: 3.63 min Scan# 791
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 64 Resp: 4054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 7.4 | 25.8 | 38.6# |



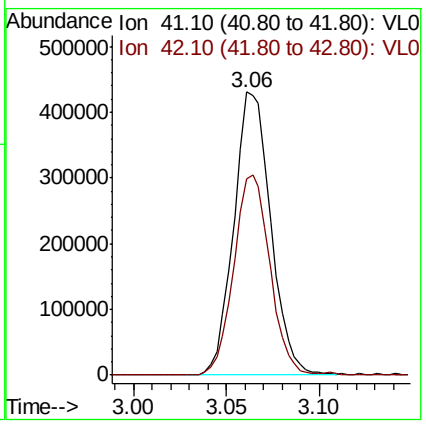


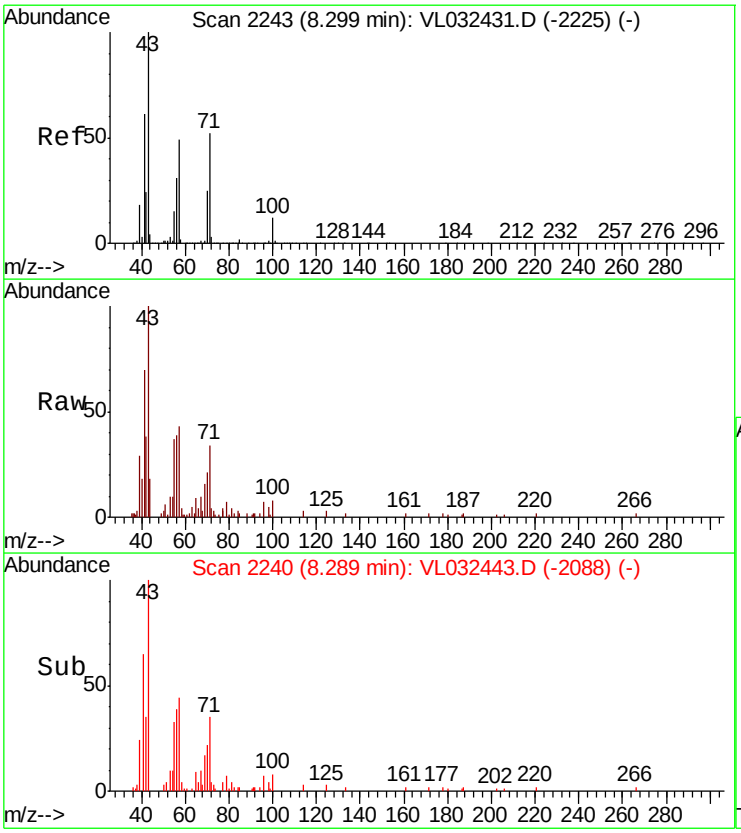

#9
Propene
Concen: 8.887 ppbv
RT: 3.06 min Scan# 614
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 41 Resp: 596384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.3 | 56.6 | 84.8 |

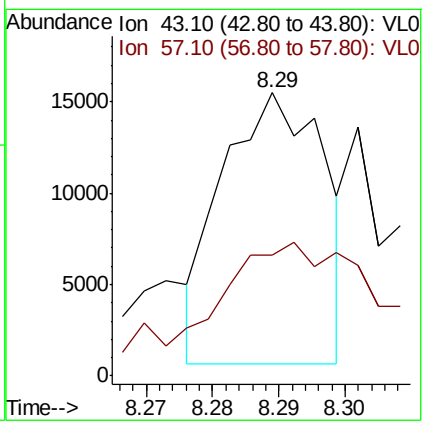


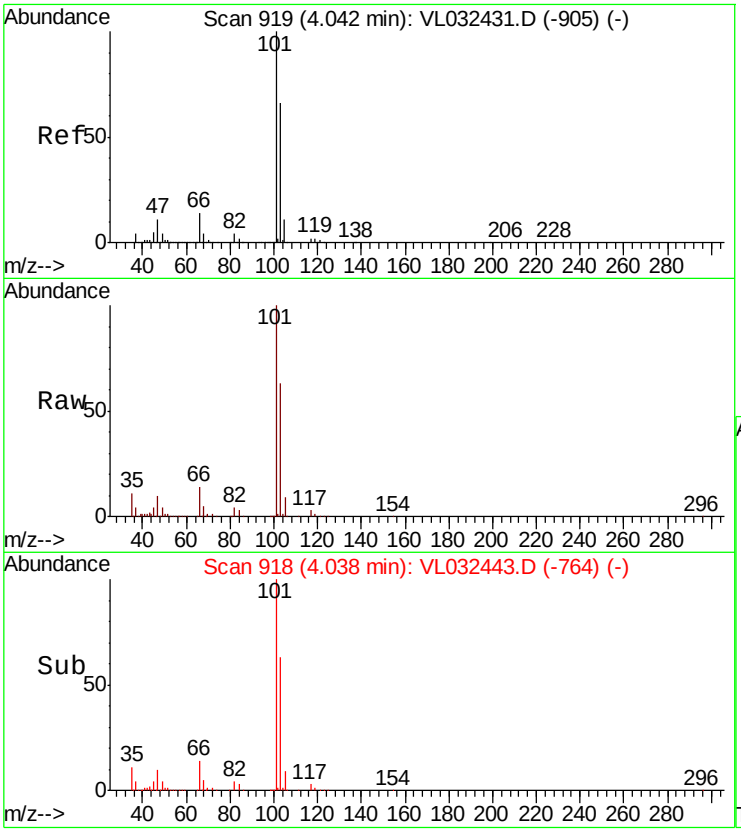




#10
Heptane
Concen: 0.066 ppbv
RT: 8.29 min Scan# 2240
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 15866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 94.8 | 39.6 | 59.4# |



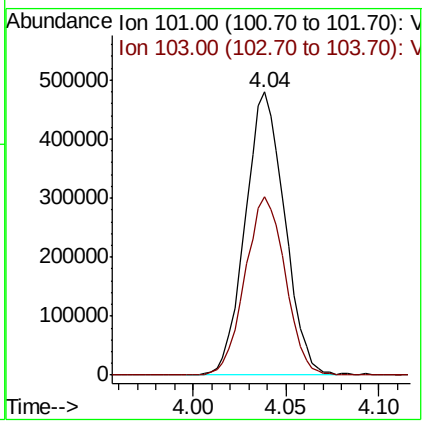


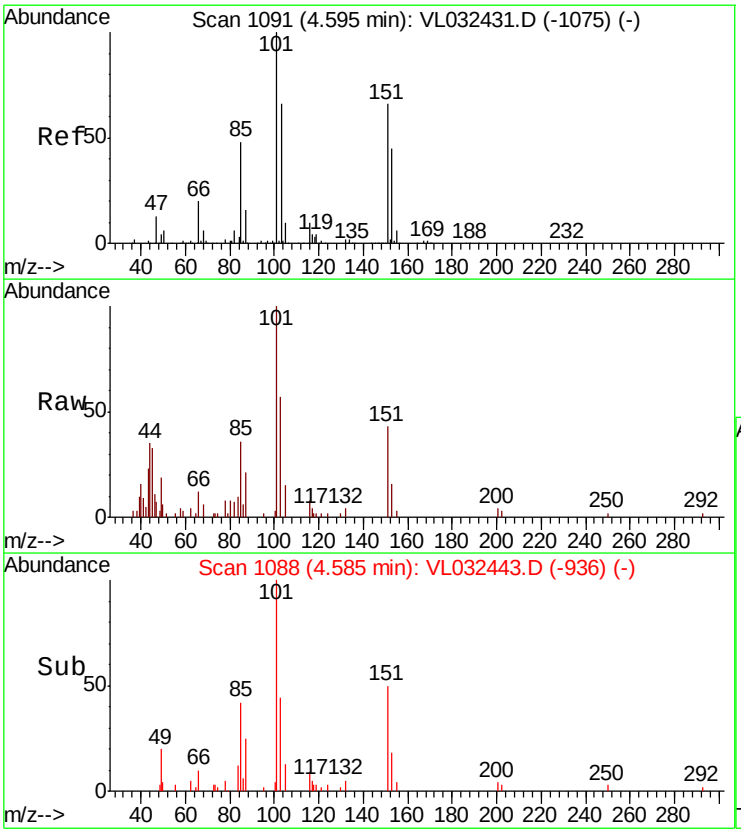

#11
Trichlorofluoromethane
Concen: 3.333 ppbv
RT: 4.04 min Scan# 918
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:101 Resp: 706571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.0 | 52.8 | 79.2 |

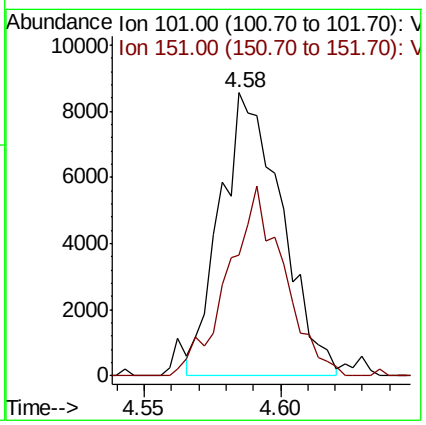


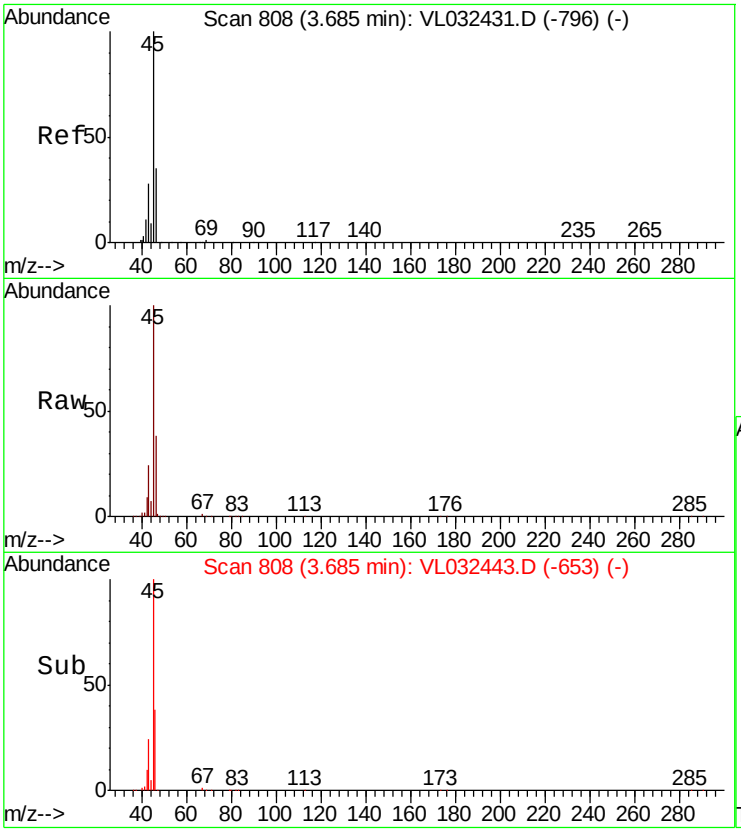




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.093 ppbv
RT: 4.58 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:101 Resp: 13428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 60.8 | 52.6 | 78.8 |



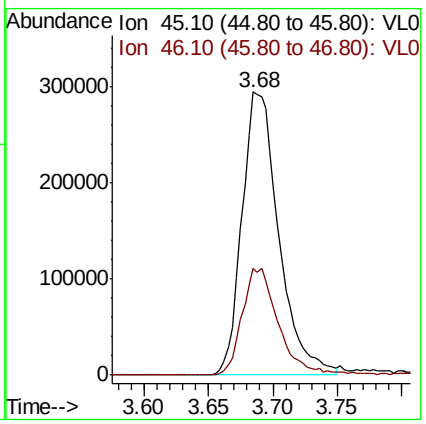


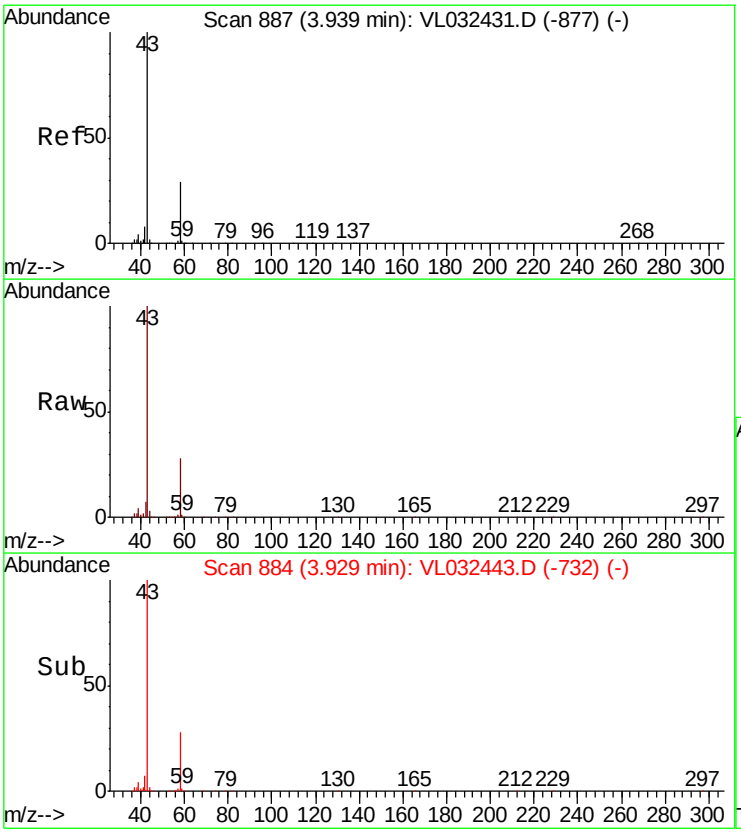

#13
Ethanol
Concen:  28.124 ppbv
RT: 3.68 min  Scan# 808
Delta R.T.  -0.00 min
Lab File:  VL032443.D
Acq: 31 Aug 2018  16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 45 Resp:  588280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.9 | 14.2 | 56.8 |

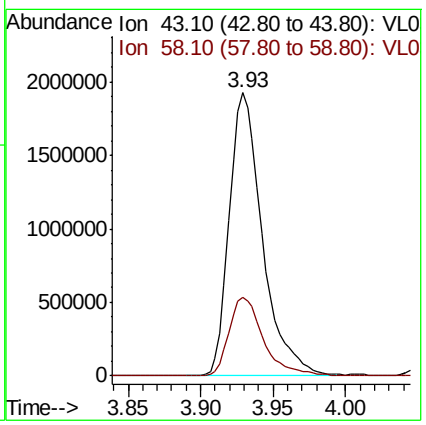


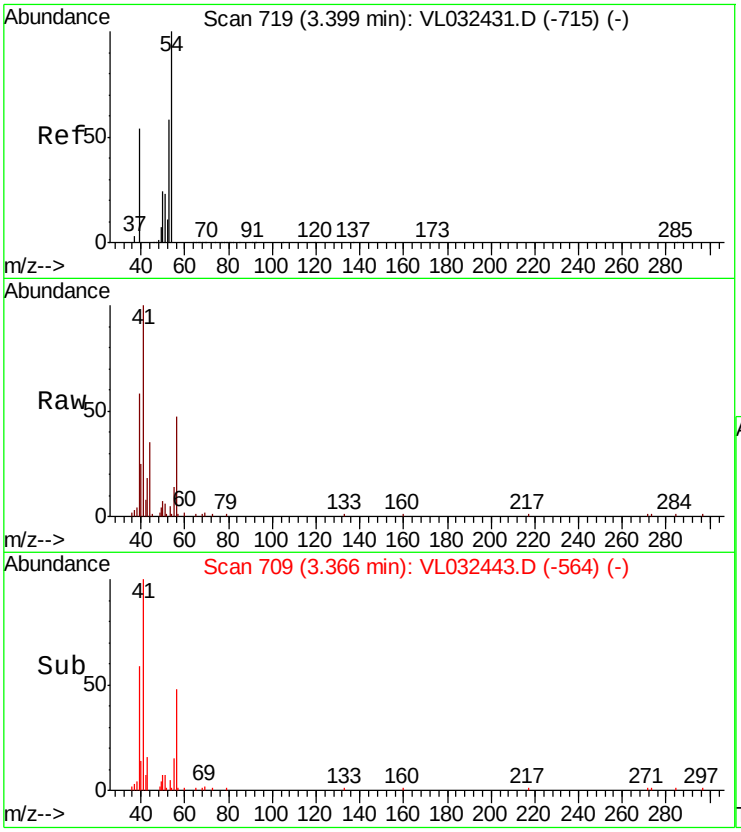




#15
Acetone
Concen:  18.458 ppbv
RT: 3.93 min  Scan# 884
Delta R.T.  -0.01 min
Lab File:  VL032443.D
Acq: 31 Aug 2018  16:23

Tgt Ion: 43 Resp: 3054624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.0 | 22.6 | 33.8 |



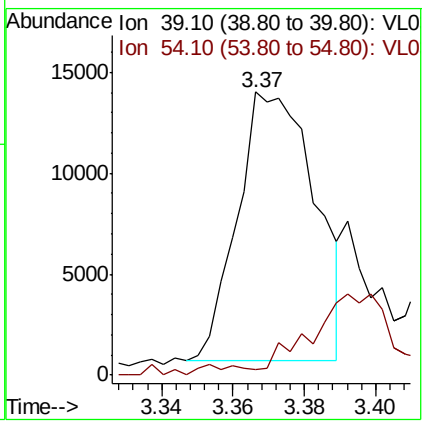


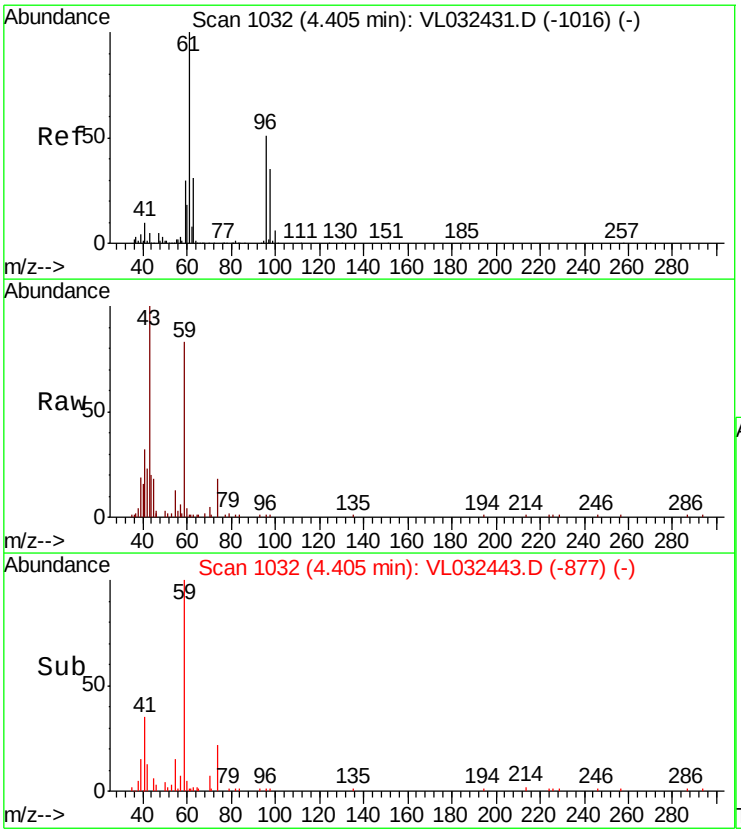

#16
1,3-Butadiene
Concen: 0.256 ppbv
RT: 3.37 min Scan# 709
Delta R.T. -0.03 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 39 Resp: 19942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 38.4 | 80.8 | 121.2# |

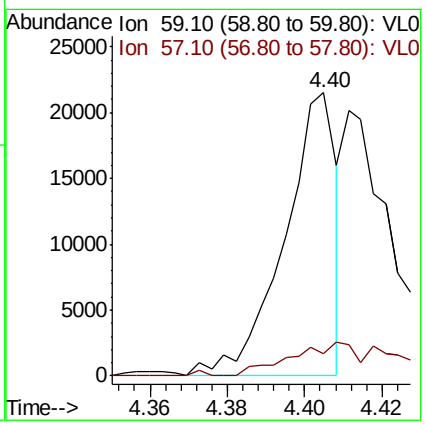


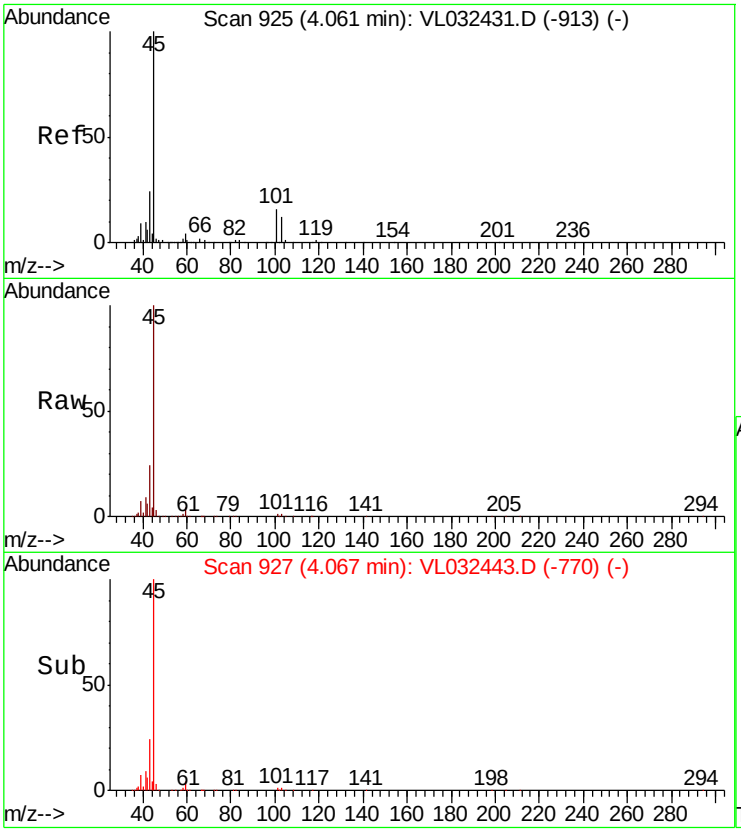




#17
tert-Butyl alcohol
Concen: 0.785 ppbv
RT: 4.40 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 59 Resp: 20004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 0.0 | 0.0 |



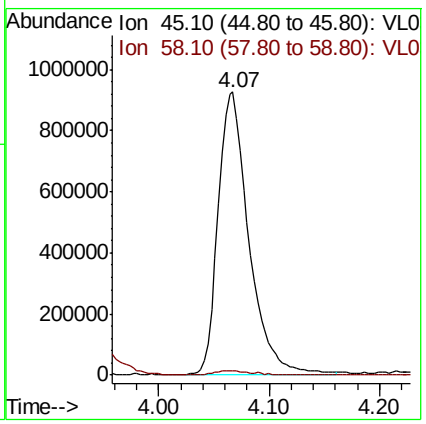


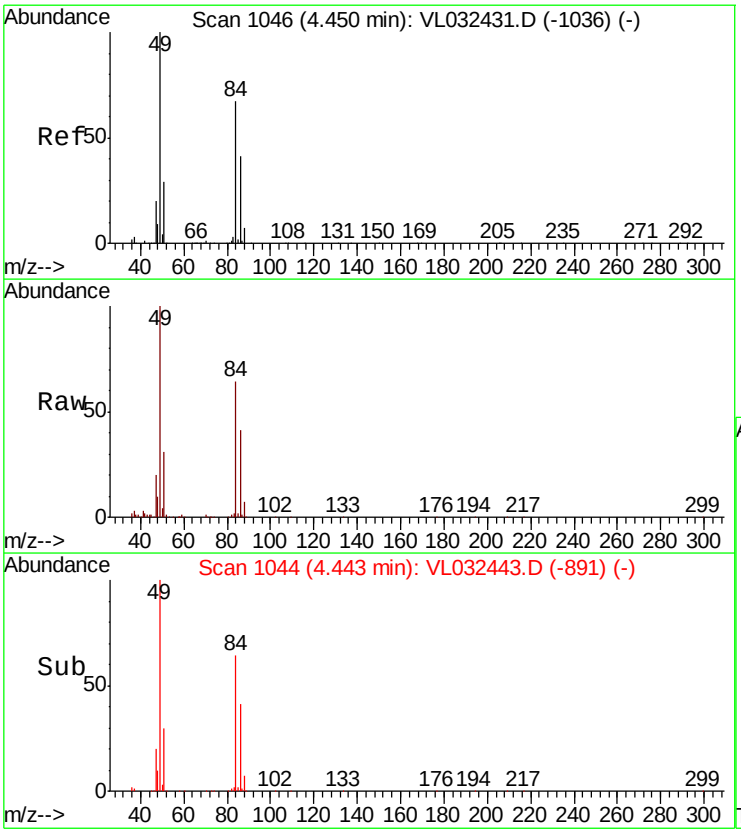

#19
Isopropyl Alcohol
Concen: 16.400 ppbv
RT: 4.07 min Scan# 927
Delta R.T. 0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 45 Resp: 1780486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.0 | 2.0 | 3.0# |

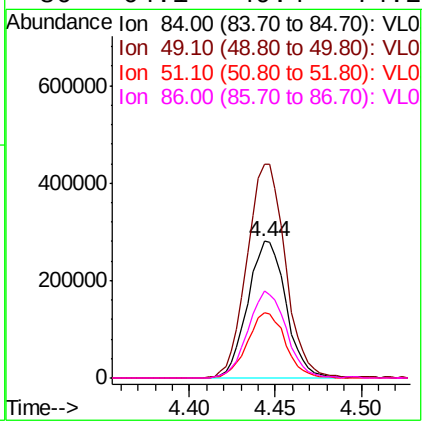


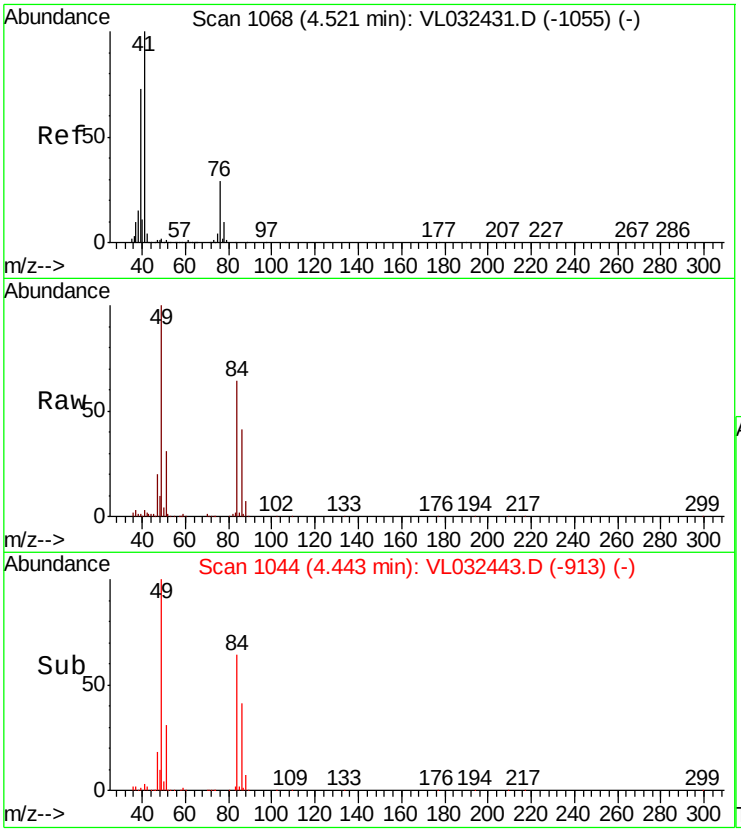




#20
Methylene Chloride
Concen: 6.869 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 84 Resp: 433473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.5 | 119.1 | 178.7 |
| 51 | 47.9 | 35.2 | 52.8 |
| 86 | 64.1 | 49.4 | 74.2 |



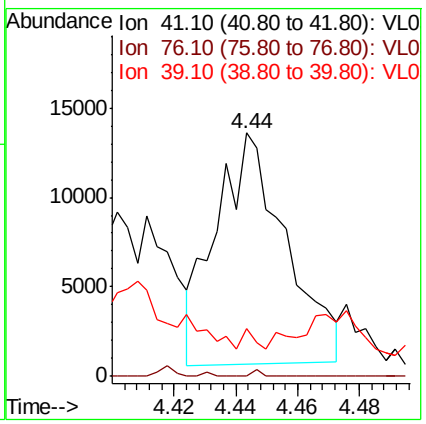


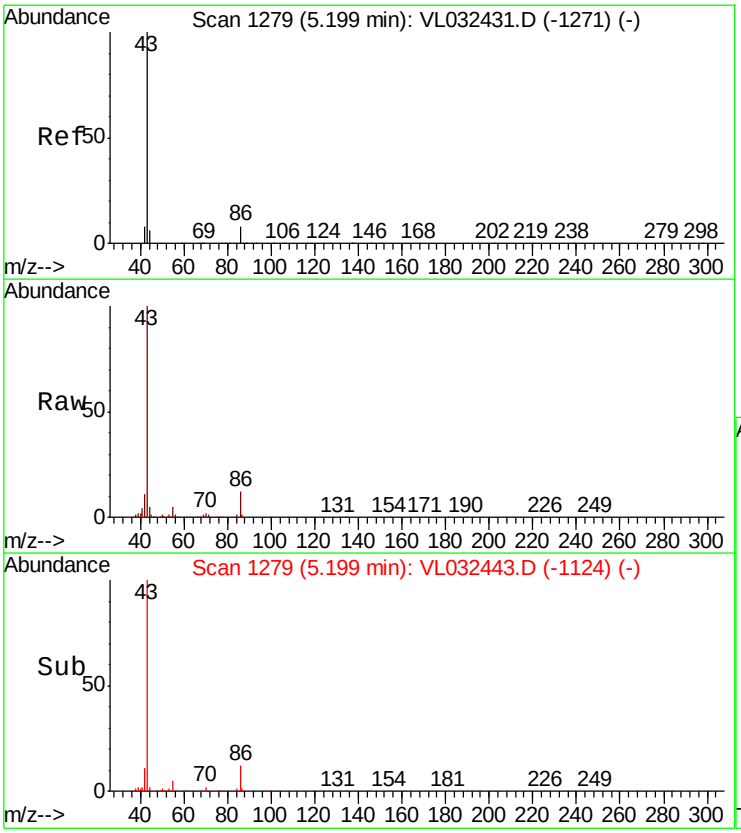

#21
Allyl Chloride
Concen: 0.185 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.08 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 41 Resp: 20320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 23.6 | 35.4# |
| 39 | 49.1 | 57.7 | 86.5# |

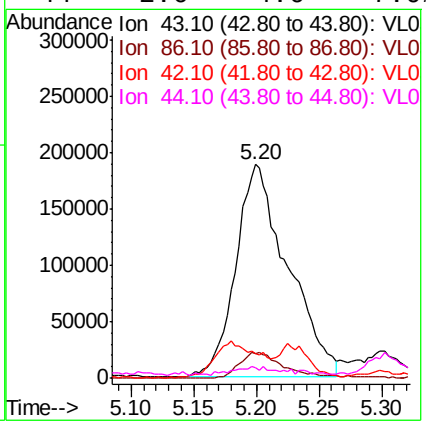


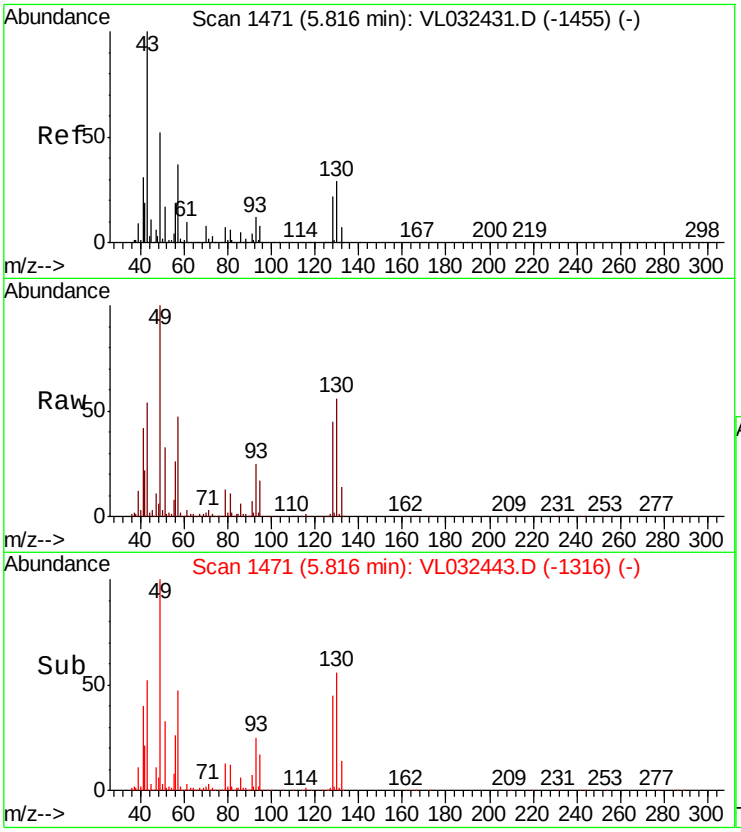




#23
Vinyl Acetate
Concen: 1.993 ppbv
RT: 5.20 min Scan# 1279
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 546607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.1 | 5.9 | 8.9# |
| 42 | 10.8 | 6.9 | 10.3# |
| 44 | 2.6 | 4.6 | 7.0# |



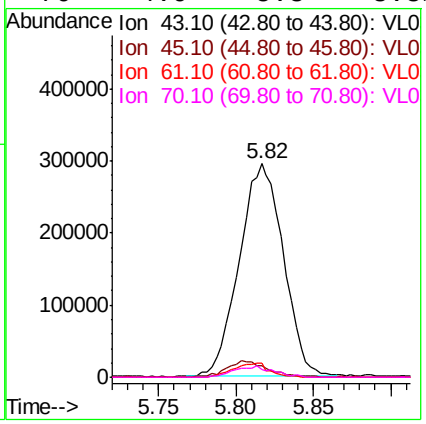


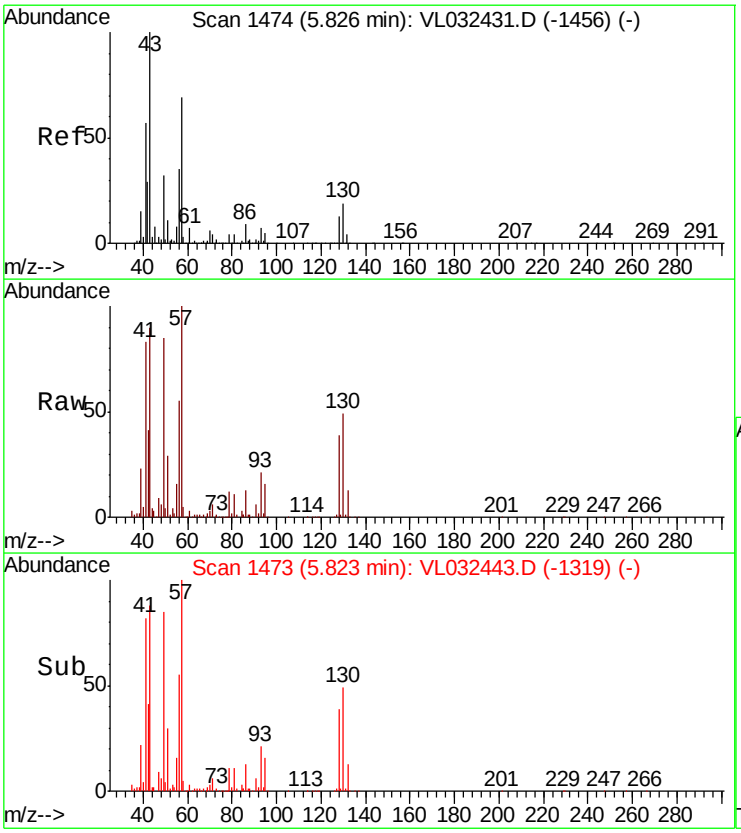

#25
Ethyl Acetate
Concen: 1.495 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 43 Resp: 584315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 7.1 | 8.0 | 12.0# |
| 61 | 5.5 | 7.6 | 11.4# |
| 70 | 4.9 | 5.8 | 8.8# |

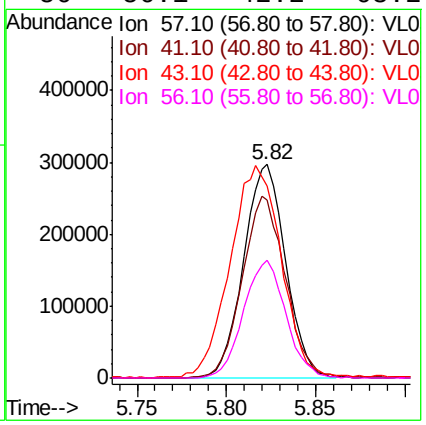


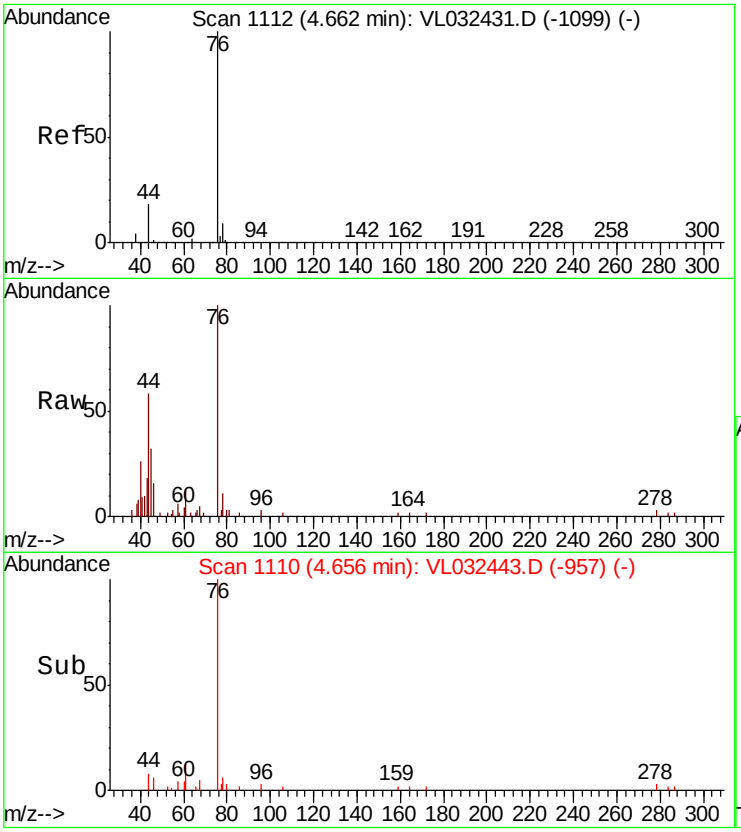




#26
Hexane
Concen: 2.784 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 57 Resp: 487256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 88.0 | 69.0 | 103.4 |
| 43 | 122.2 | 172.1 | 258.1# |
| 56 | 56.1 | 42.2 | 63.2 |



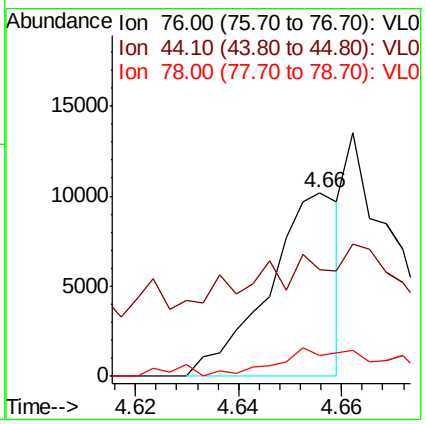


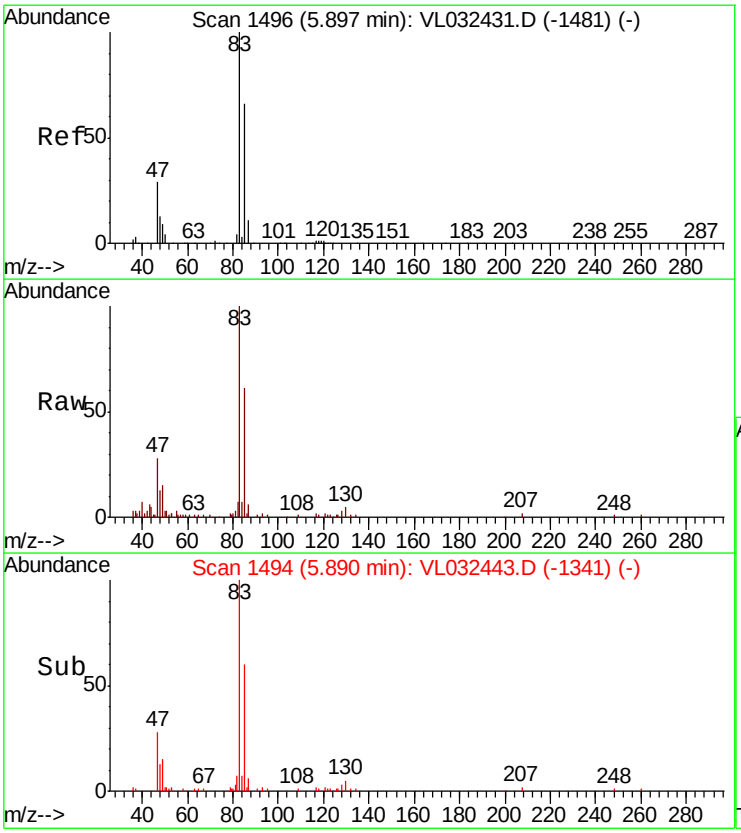

#27
Carbon Disulfide
Concen: 0.060 ppbv
RT: 4.66 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 76 Resp: 9688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 14.0 | 21.0# |
| 78 | 27.7 | 7.5 | 11.3# |

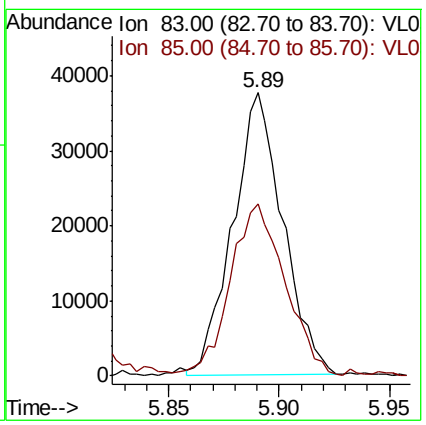


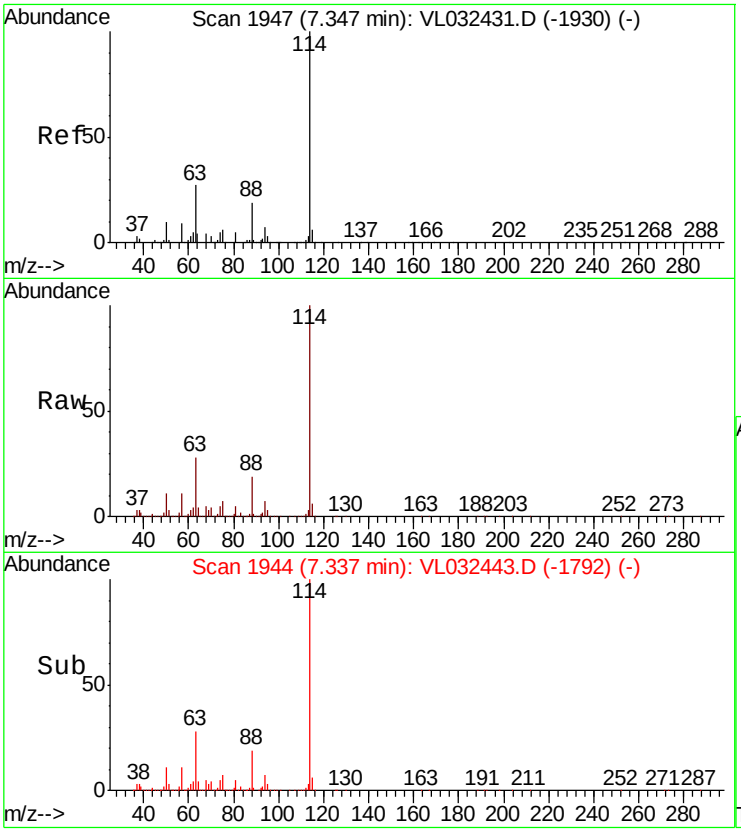




#29
Chloroform
Concen: 0.222 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 83 Resp: 59248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.4 | 52.5 | 78.7 |



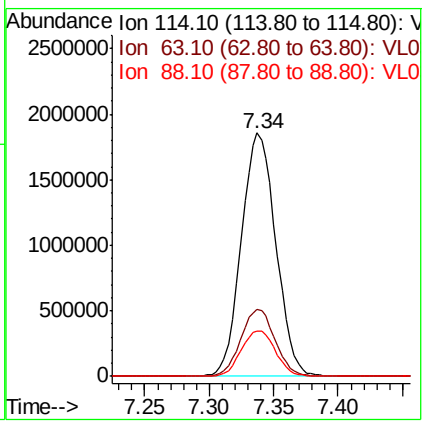


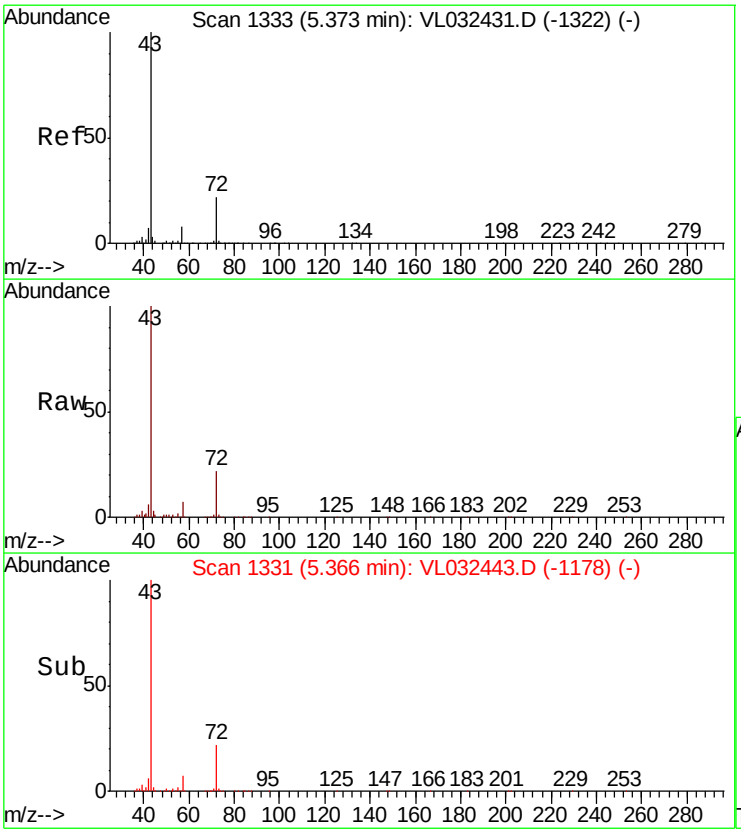

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:114 Resp: 3455637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.4 | 22.2 | 33.4 |
| 88 | 18.8 | 15.0 | 22.4 |

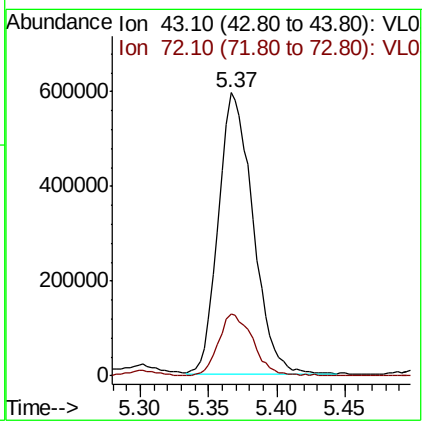


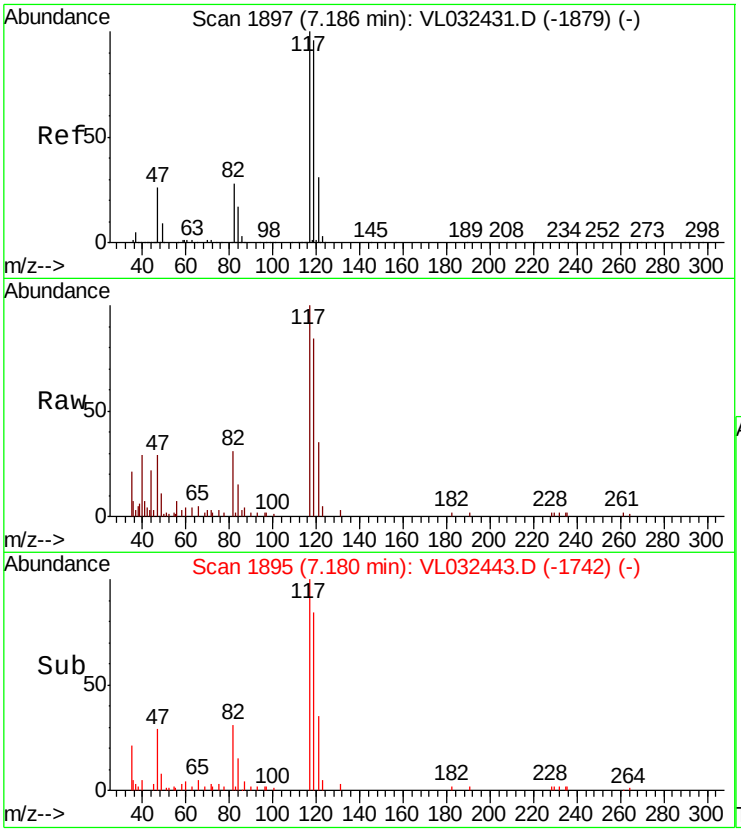




#34
2-Butanone
Concen: 4.547 ppbv
RT: 5.37 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 1043672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.0 | 17.8 | 26.6 |



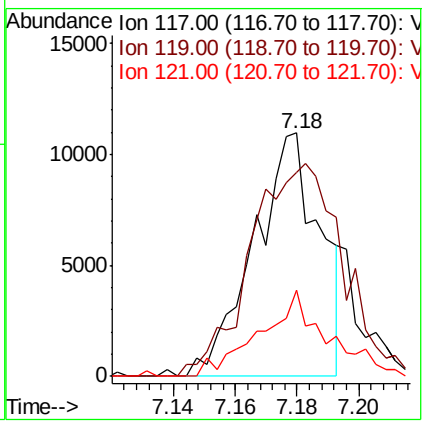


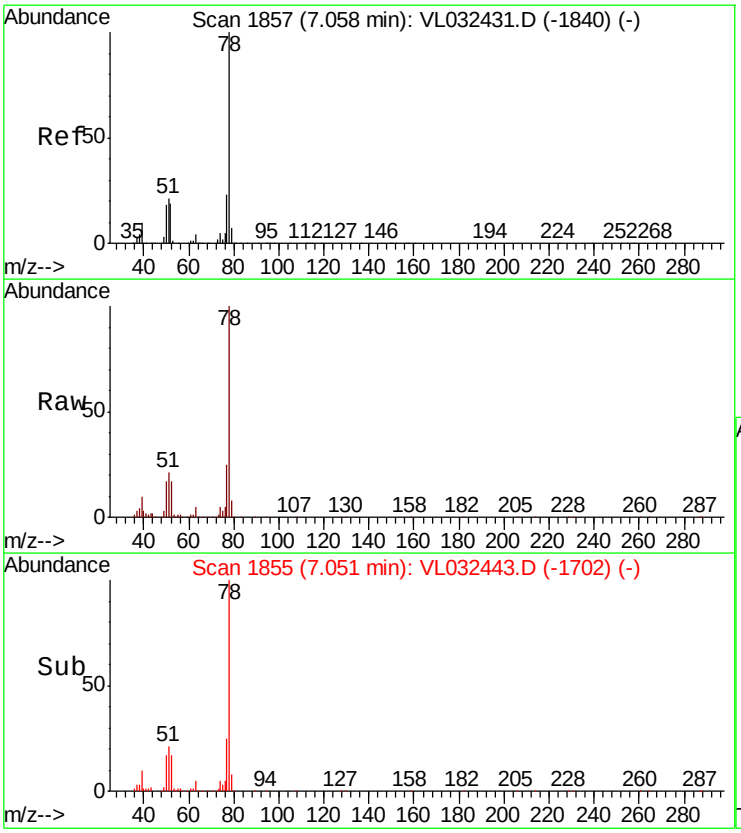

#35
Carbon Tetrachloride
Concen: 0.070 ppbv
RT: 7.18 min Scan# 1895
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:117 Resp: 16204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 78.9 | 76.6 | 115.0 |
| 121 | 35.2 | 24.6 | 36.8 |

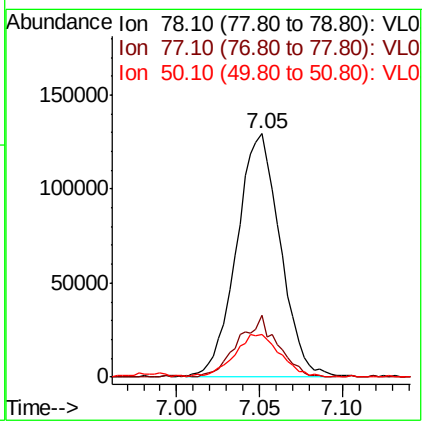


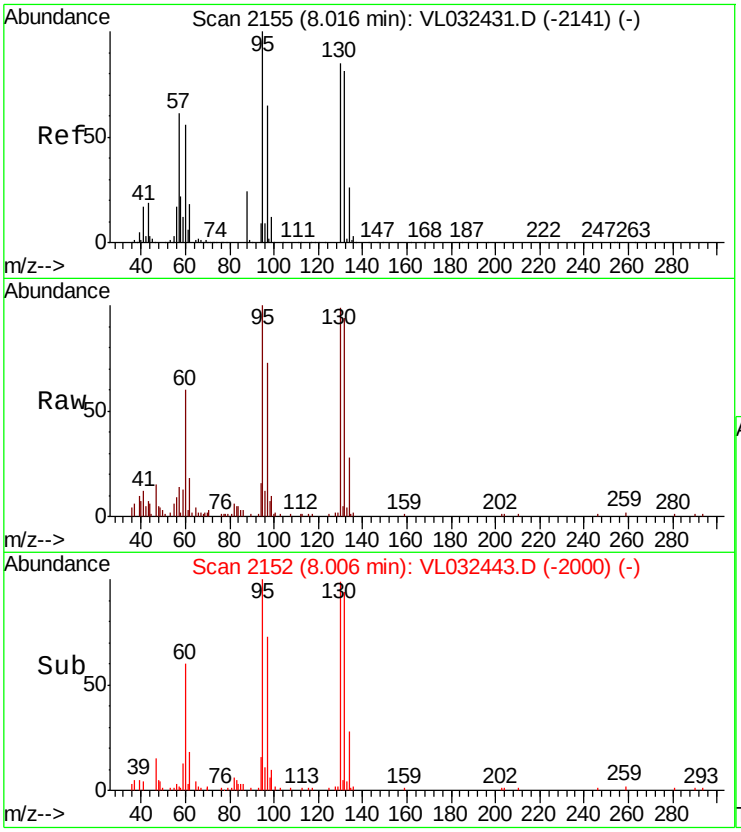




#36
Benzene
Concen: 0.801 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 78 Resp: 235620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.1 | 18.4 | 27.6 |
| 50 | 16.9 | 14.4 | 21.6 |



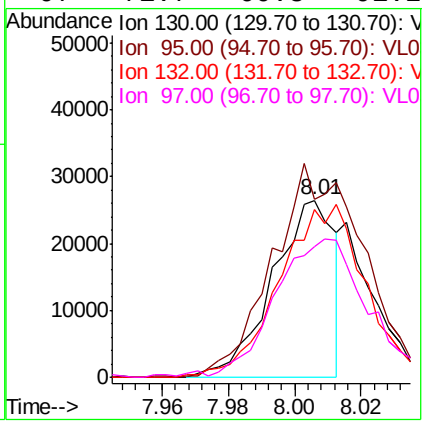


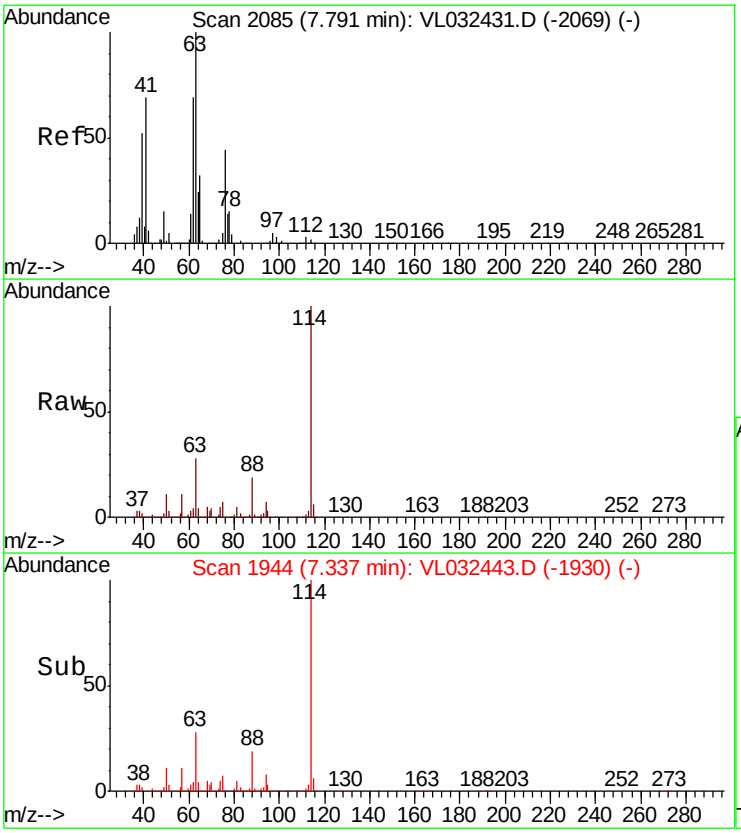

#38
Trichloroethene
Concen: 0.307 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion:130 Resp: 34240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.8 | 94.2 | 141.4 |
| 132 | 93.6 | 76.2 | 114.4 |
| 97 | 71.7 | 60.8 | 91.2 |

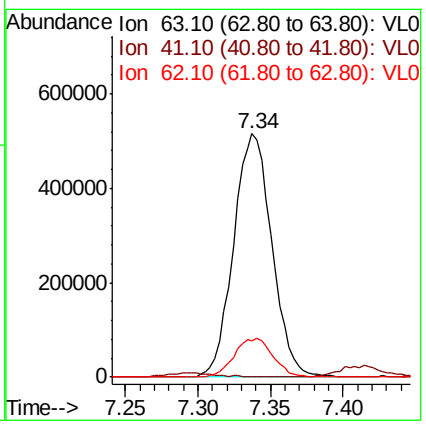


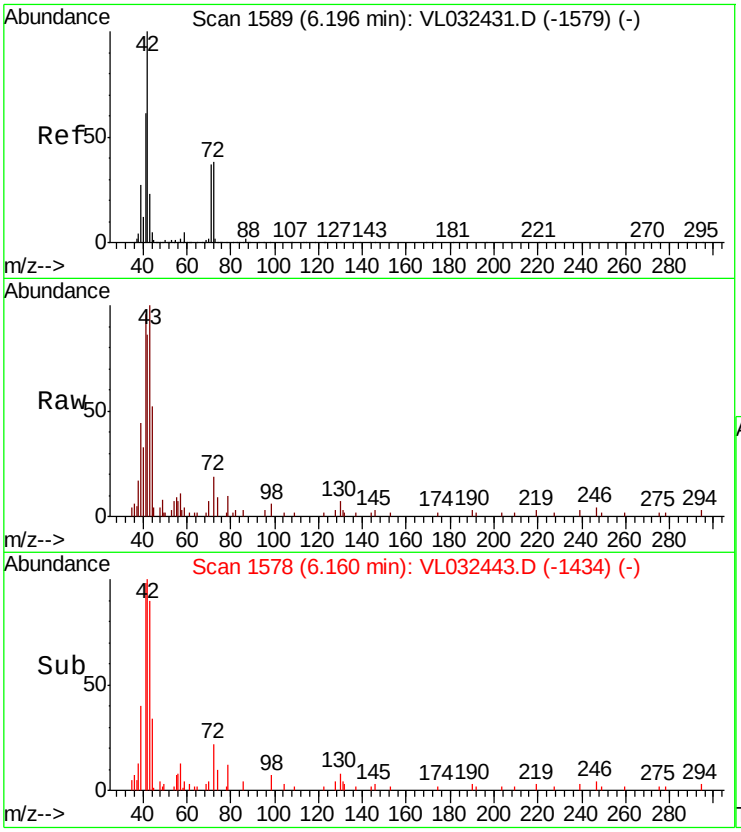




#39
1,2-Dichloropropane
Concen: 7.490 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.45 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 63 Resp: 942459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 55.4 | 83.0# |
| 62 | 15.0 | 55.4 | 83.0# |



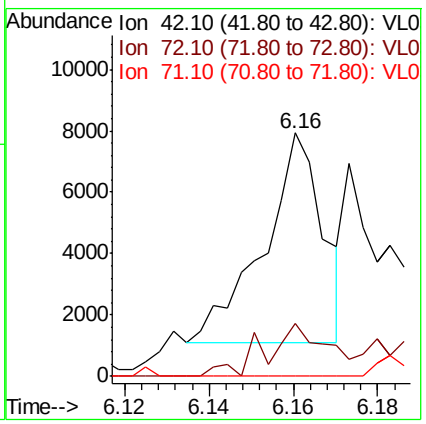


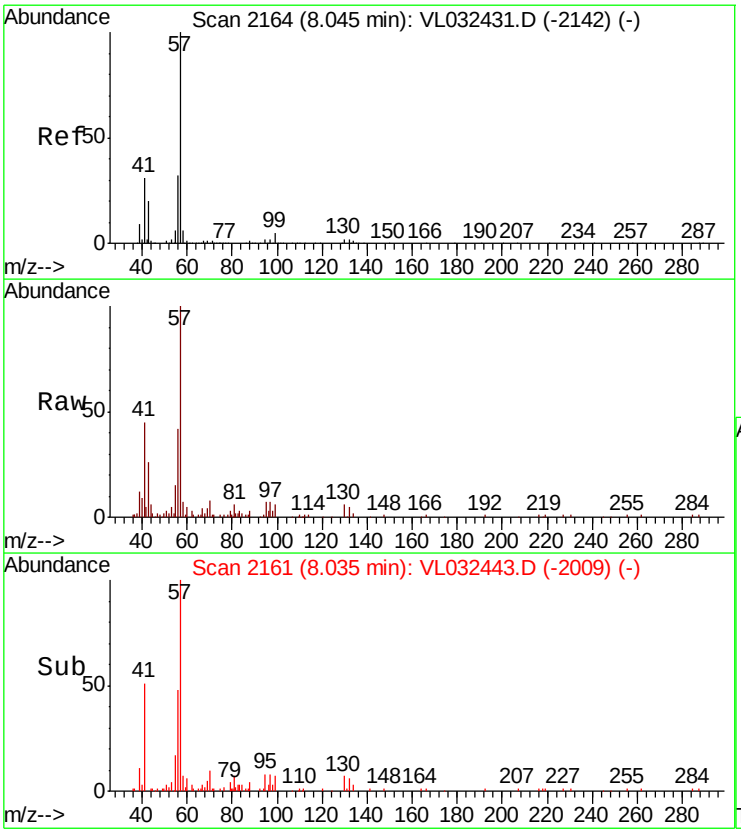

#41
Tetrahydrofuran
Concen: 0.053 ppbv
RT: 6.16 min Scan# 1578
Delta R.T. -0.04 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 42 Resp: 6629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.5 | 29.5 | 44.3# |
| 71 | 0.0 | 28.3 | 42.5# |

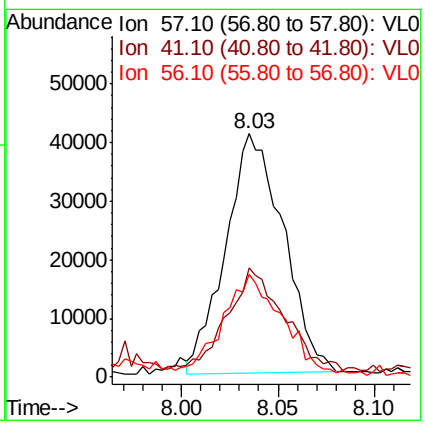


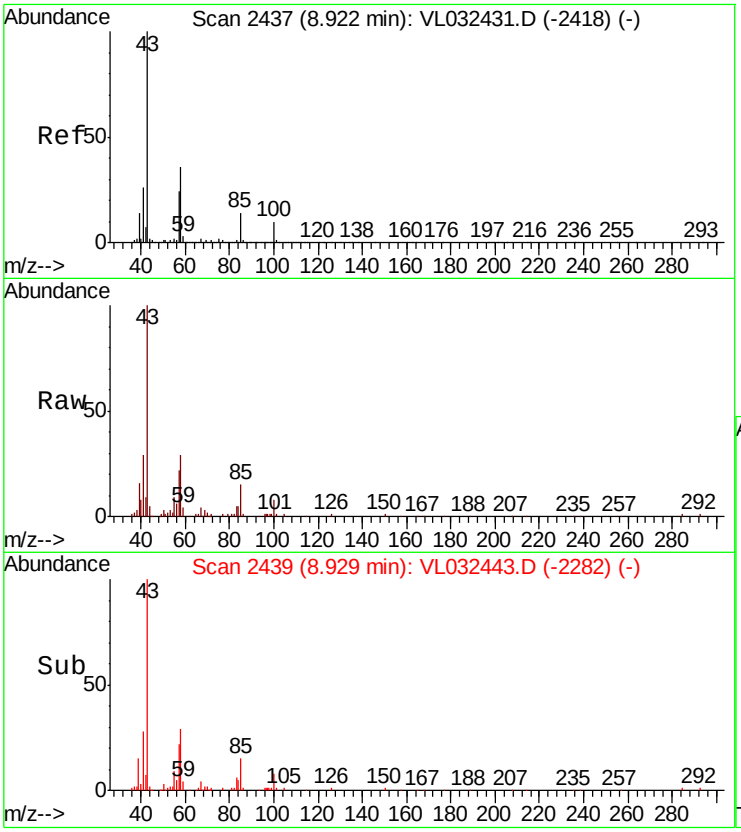




#44
2,2,4-Trimethylpentane
Concen: 0.148 ppbv
RT: 8.03 min Scan# 2161
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 57 Resp: 84305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 43.5 | 24.4 | 36.6# |
| 56 | 50.6 | 25.7 | 38.5# |



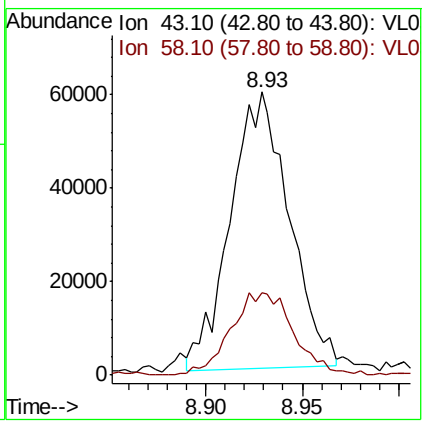


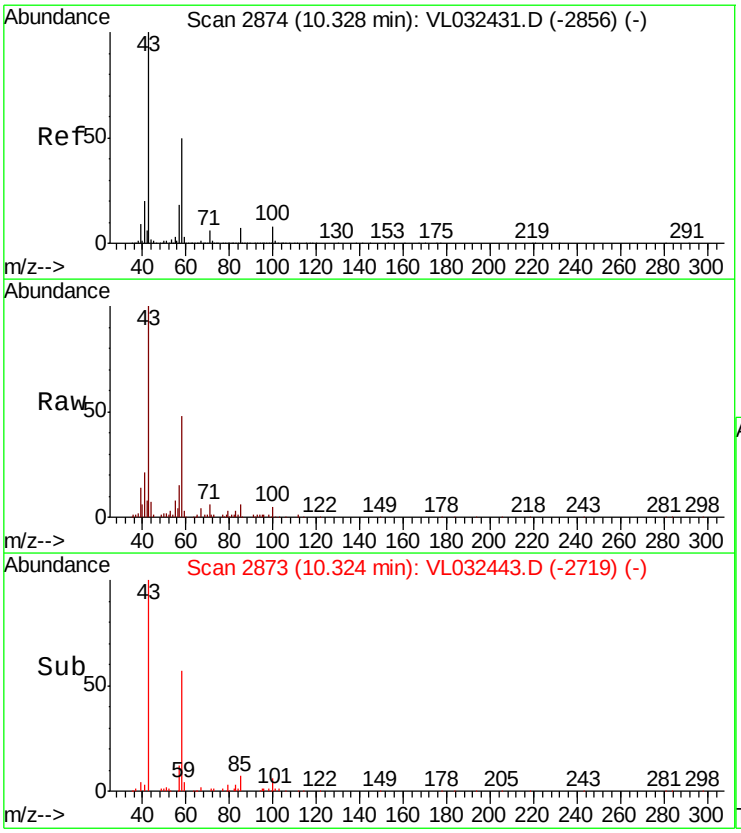

#50
4-Methyl-2-Pentanone
Concen: 0.362 ppbv
RT: 8.93 min Scan# 2439
Delta R.T. 0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 43 Resp: 125231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 29.0 | 43.4 |

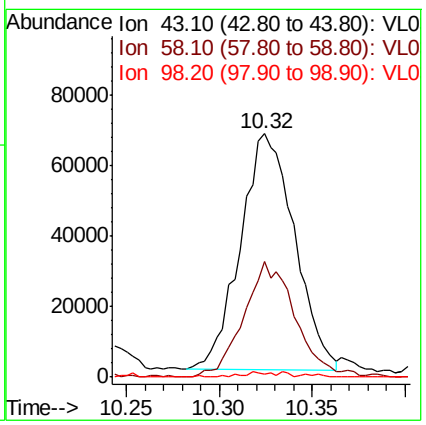


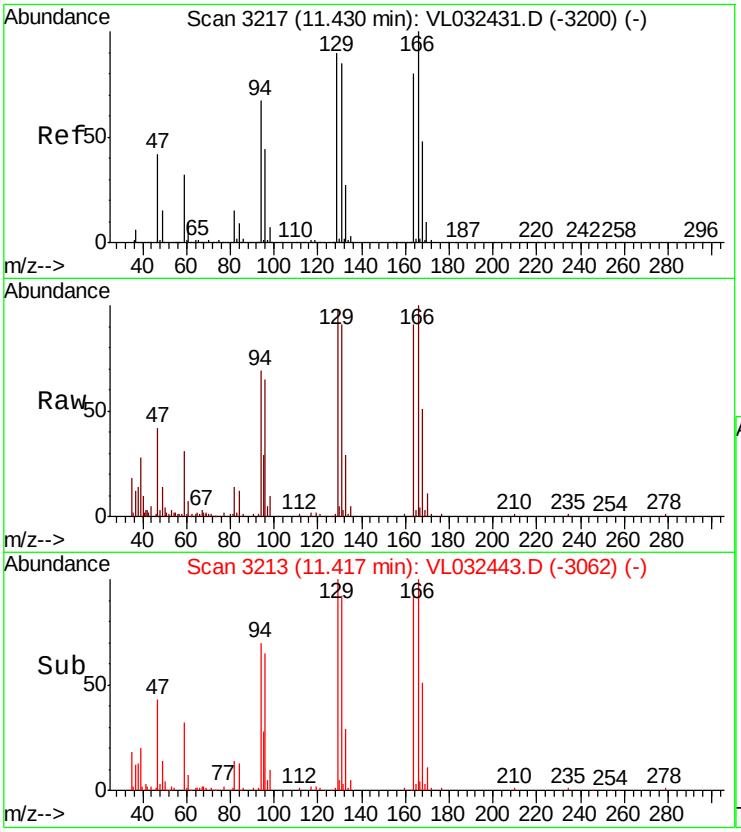




#51
2-Hexanone
Concen: 0.616 ppbv
RT: 10.32 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 137207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.9 | 39.2 | 58.8 |
| 98 | 2.1 | 0.4 | 0.6# |



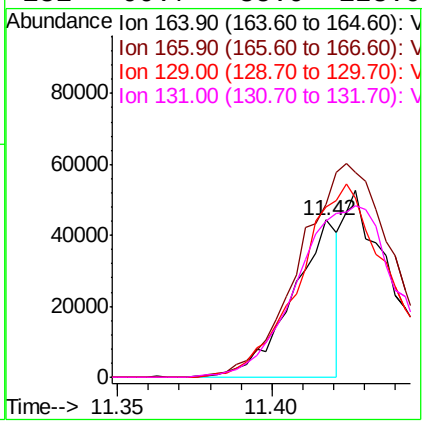


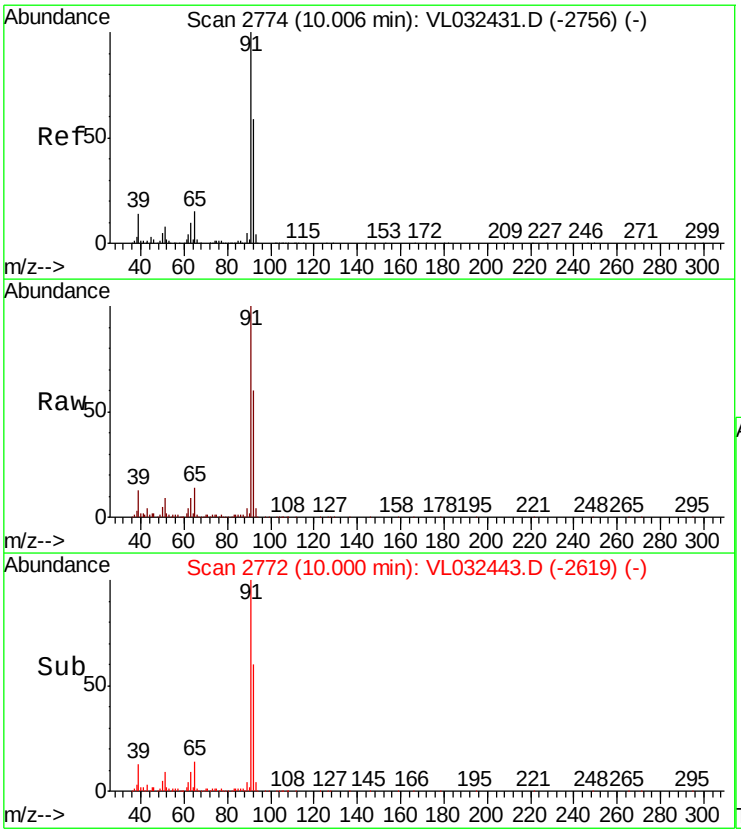

#52
Tetrachloroethene
Concen: 0.496 ppbv
RT: 11.42 min Scan# 3213
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:164 Resp: 45234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 109.9 | 100.6 | 150.8 |
| 129 | 108.0 | 89.9 | 134.9 |
| 131 | 99.7 | 85.9 | 128.9 |

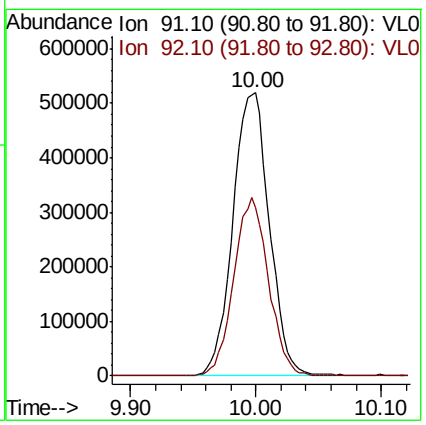


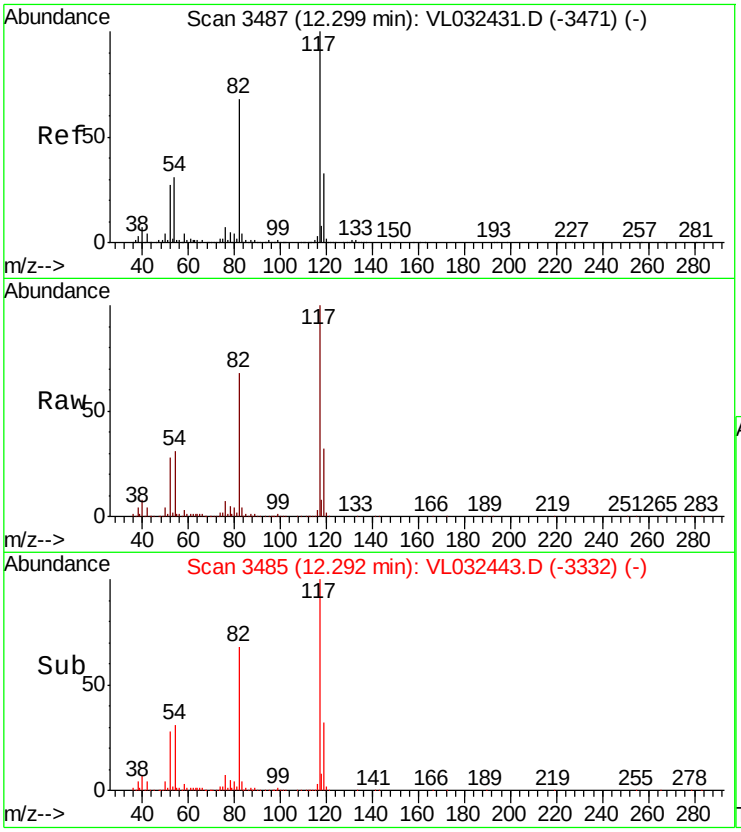




#53
Toluene
Concen: 3.401 ppbv
RT: 10.00 min Scan# 2772
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 91 Resp: 1045353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.3 | 48.1 | 72.1 |



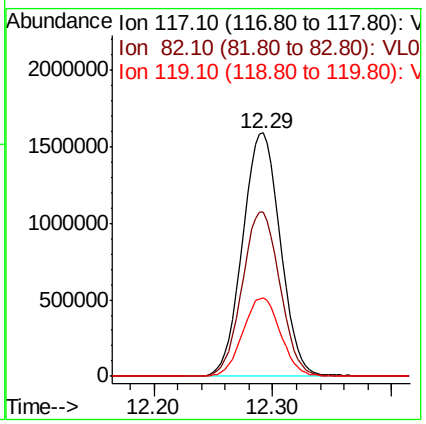


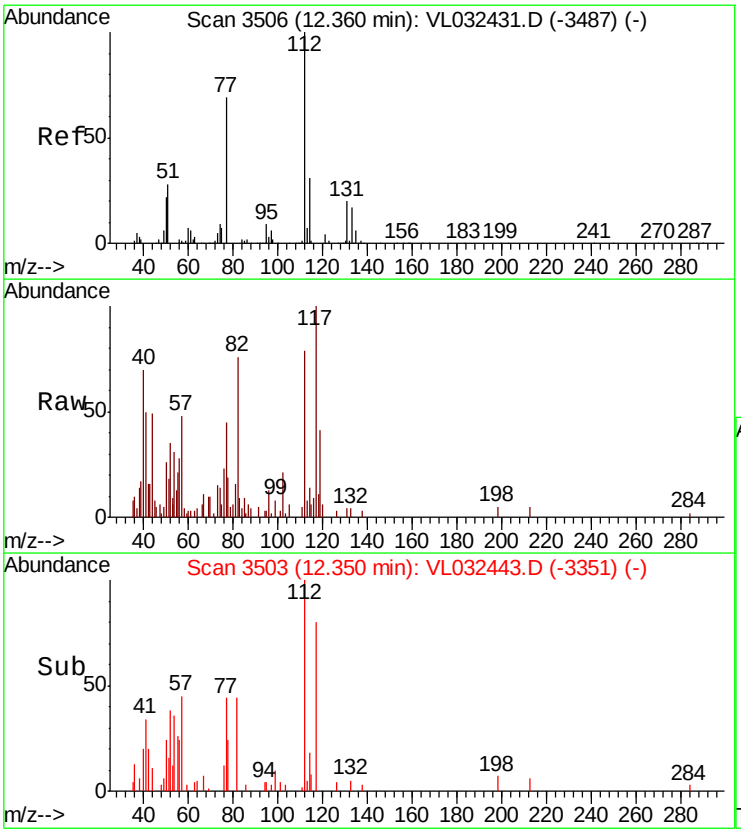

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion:117 Resp: 3498106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.6 | 53.0 | 79.6 |
| 119 | 32.3 | 45.9 | 68.9# |

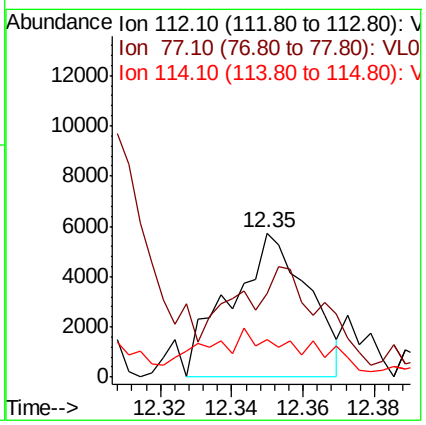


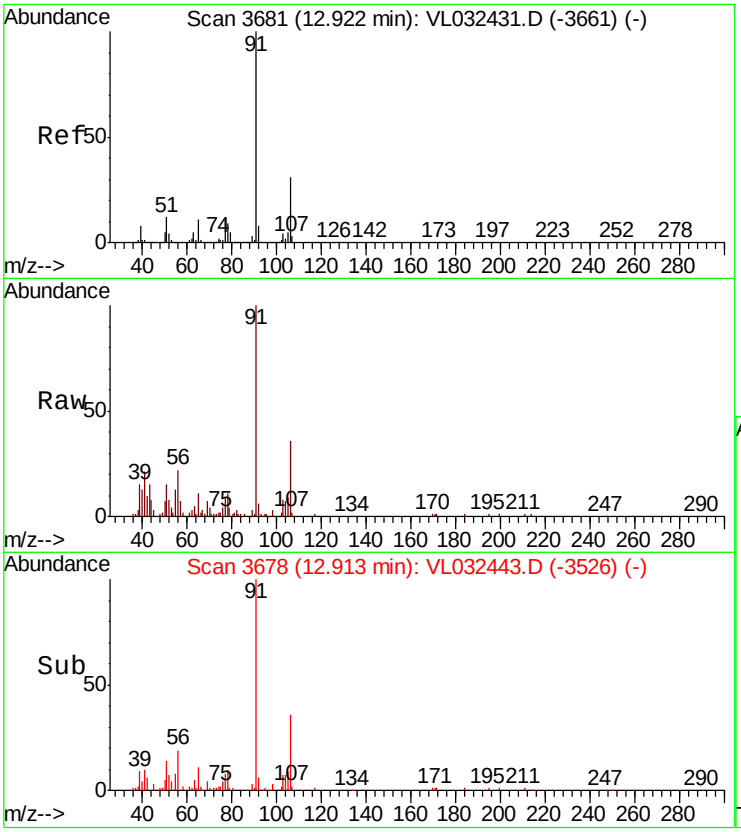




#57
Chlorobenzene
Concen: 0.031 ppbv
RT: 12.35 min Scan# 3503
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:112 Resp: 8609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 14.1 | 56.1 | 84.1# |
| 114 | 7.5 | 27.8 | 34.0# |



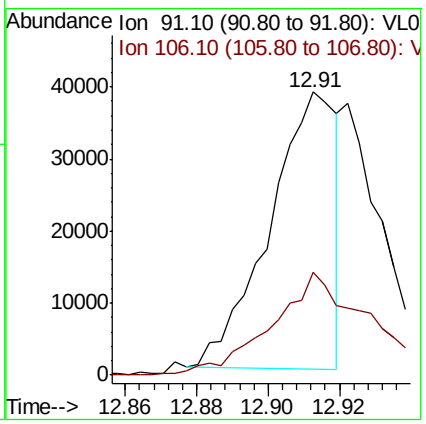


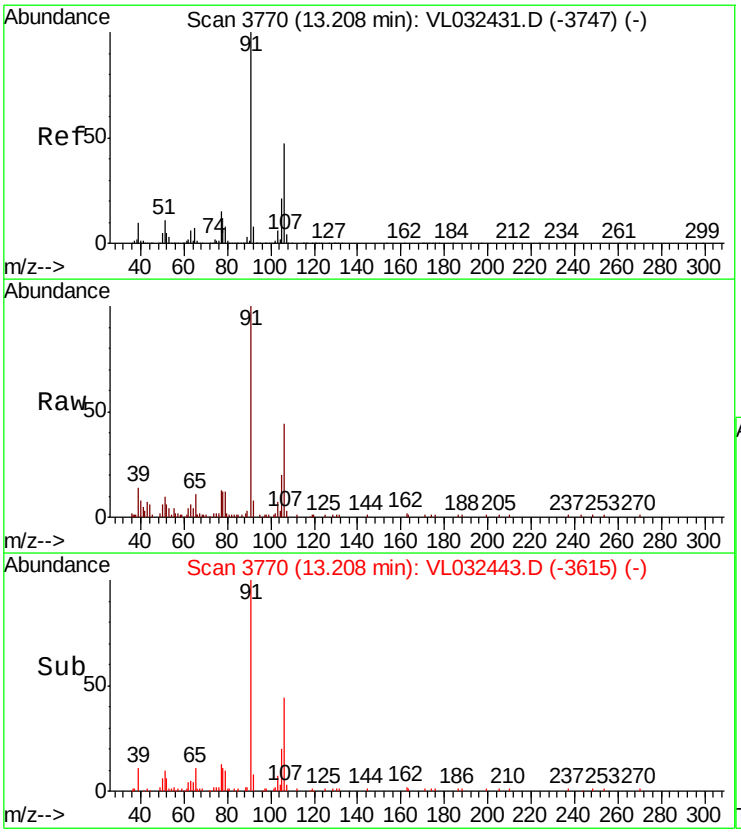

#58
Ethyl Benzene
Concen: 0.119 ppbv
RT: 12.91 min Scan# 3678
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 91 Resp: 49819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 36.1 | 24.8 | 37.2 |

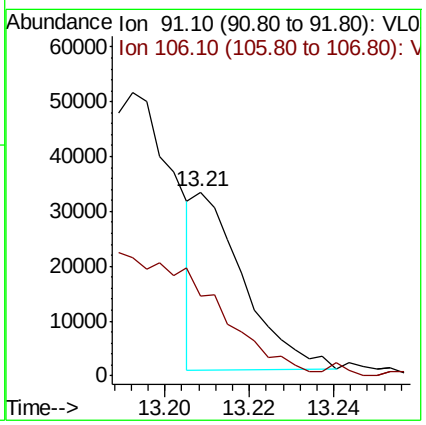


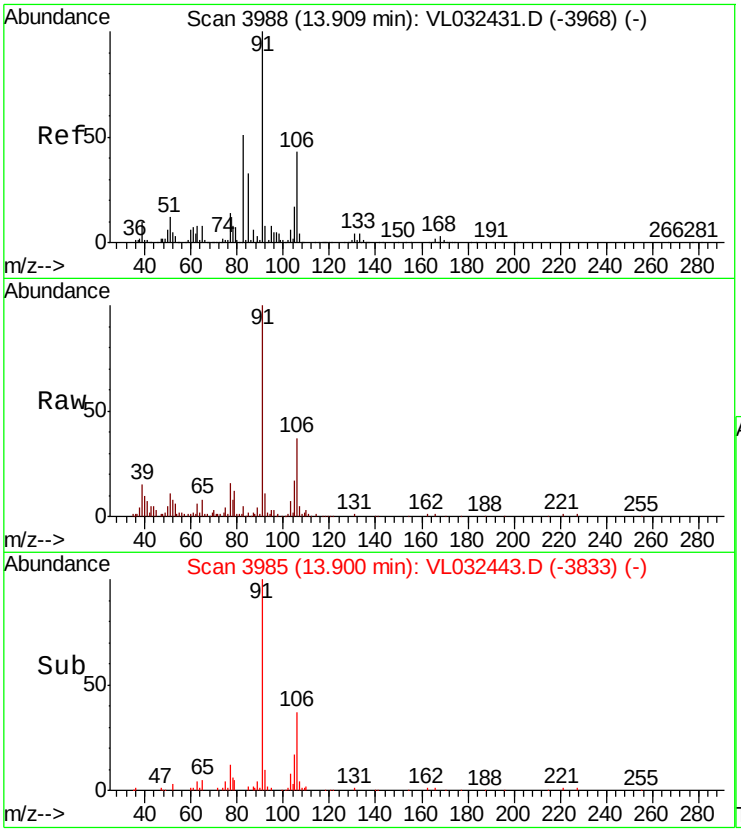




#59
m/p-Xylene
Concen: 0.071 ppbv
RT: 13.21 min Scan# 3770
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 91 Resp: 26331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.6 | 55.0# |



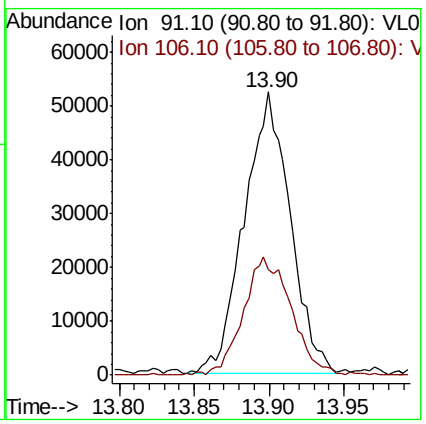


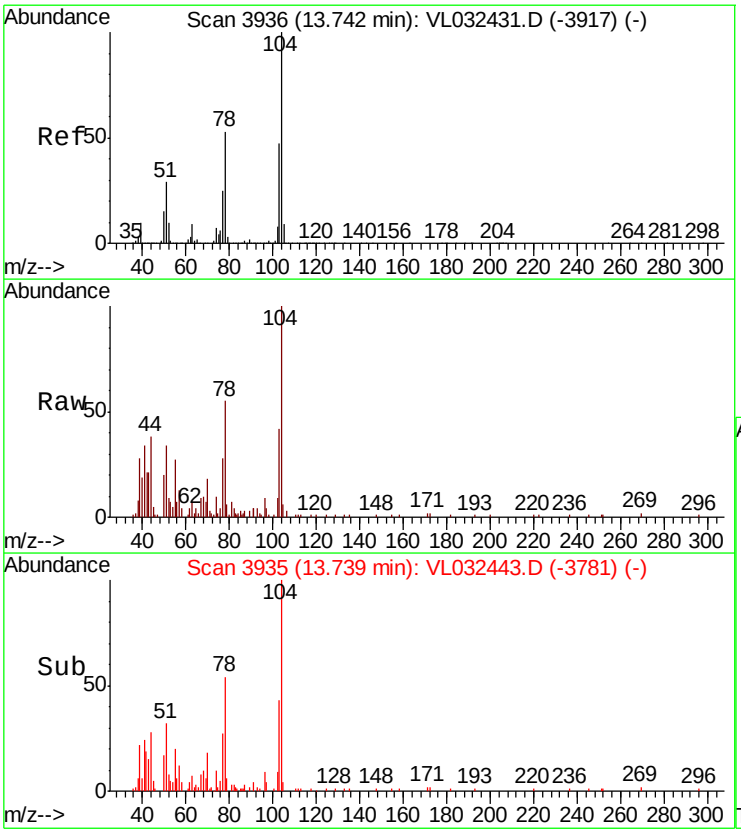

#60
o-Xylene
Concen: 0.303 ppbv
RT: 13.90 min Scan# 3985
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 91 Resp: 111063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.4 | 21.9 | 65.7 |

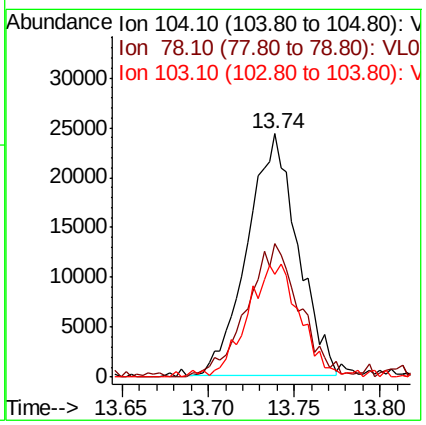


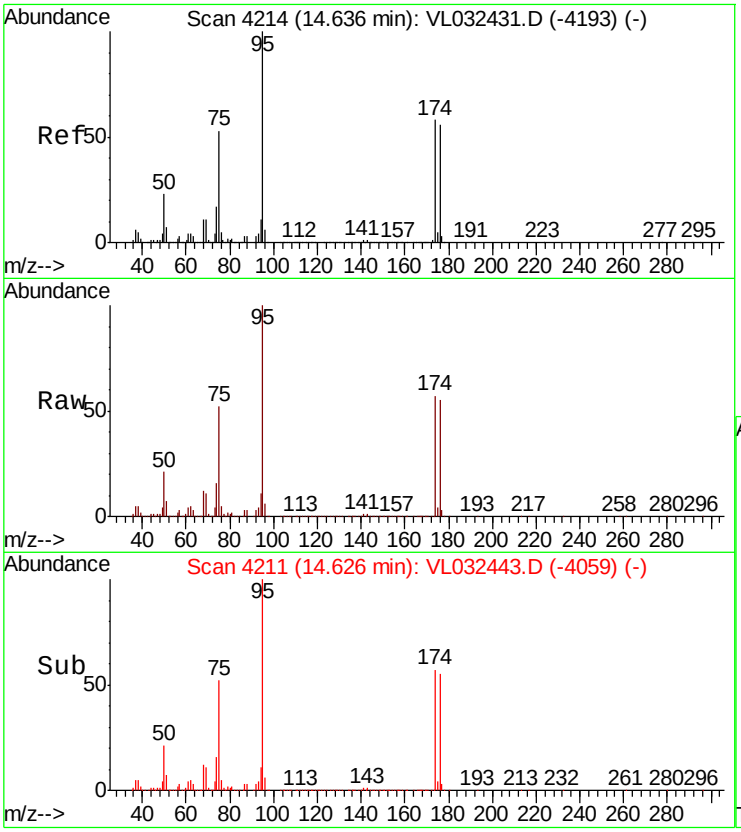




#61
Styrene
Concen: 0.208 ppbv
RT: 13.74 min Scan# 3935
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:104 Resp: 49270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.0 | 41.8 | 62.8 |
| 103 | 50.8 | 38.0 | 57.0 |



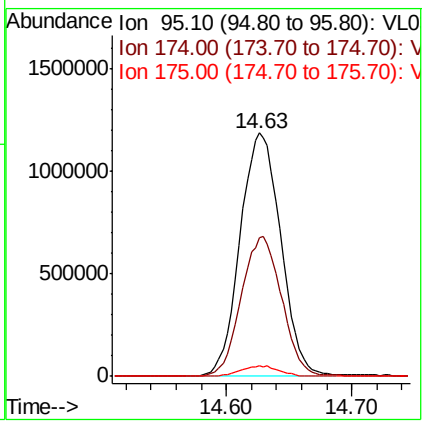


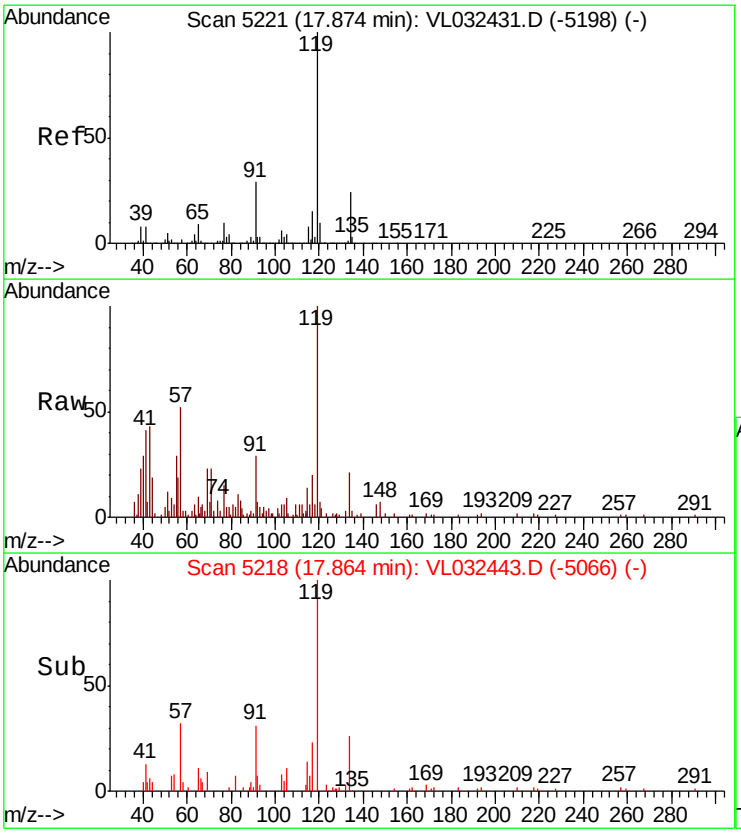

#68
1-Bromo-4-Fluorobenzene
Concen: 10.312 ppbv
RT: 14.63 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion: 95 Resp: 2678040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 57.3 | 46.3 | 69.5 |
| 175 | 4.2 | 3.4 | 5.0 |

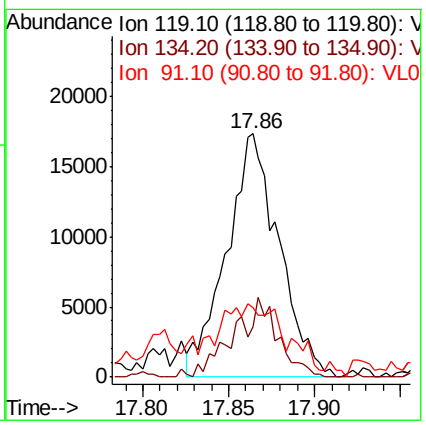


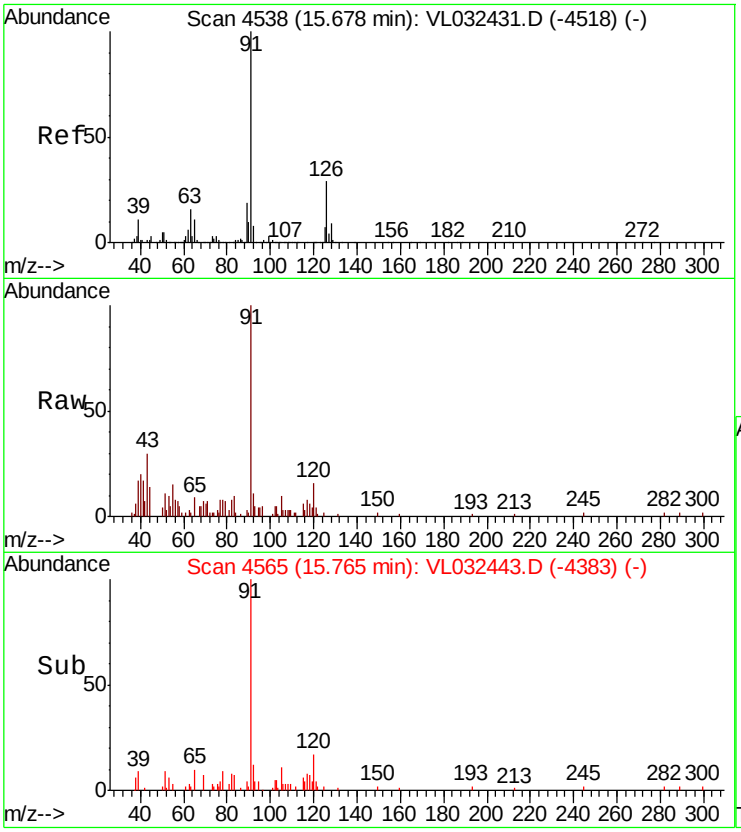




#69
p-Isopropyltoluene
Concen: 0.071 ppbv
RT: 17.86 min Scan# 5218
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:119 Resp: 36695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 28.0 | 20.4 | 30.6 |
| 91 | 47.1 | 23.4 | 35.2# |



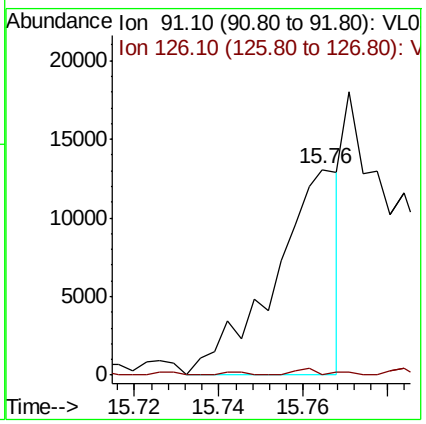


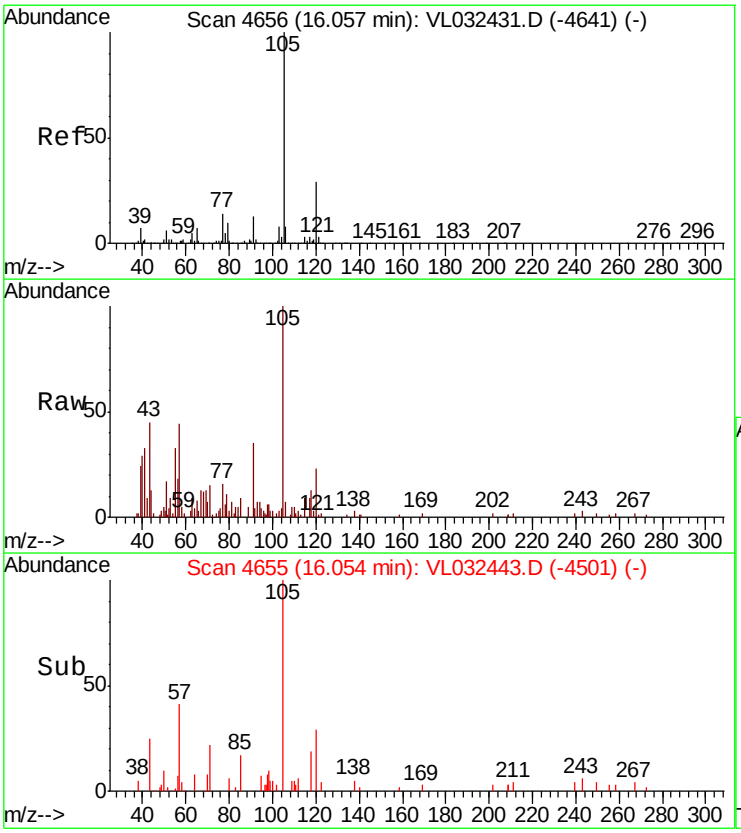

#71
2-Chlorotoluene
Concen: 0.035 ppbv
RT: 15.76 min Scan# 4565
Delta R.T. 0.09 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :** MSVOA_L
**ClientSampleId :** SS-2

Tgt Ion: 91 Resp: 13917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 2.4 | 11.9 | 47.7# |

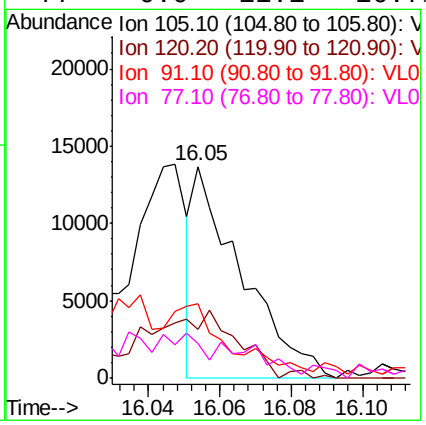


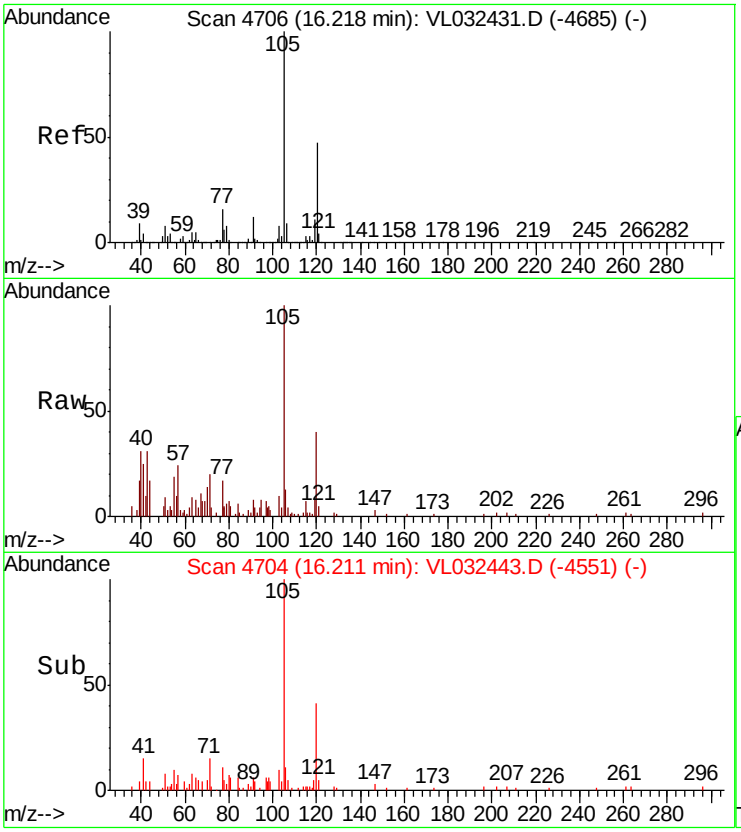




#72
4-Ethyltoluene
Concen: 0.032 ppbv
RT: 16.05 min Scan# 4655
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:105 Resp: 12823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 62.9 | 23.5 | 35.3# |
| 91 | 0.0 | 10.2 | 15.2# |
| 77 | 0.0 | 11.1 | 16.7# |



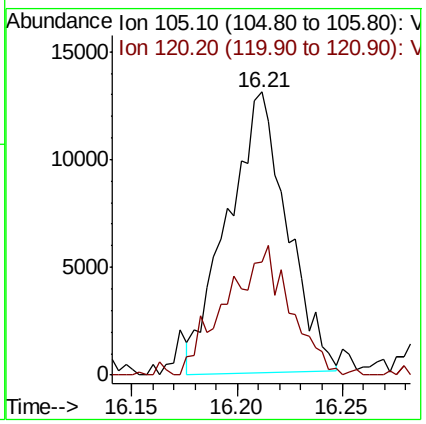


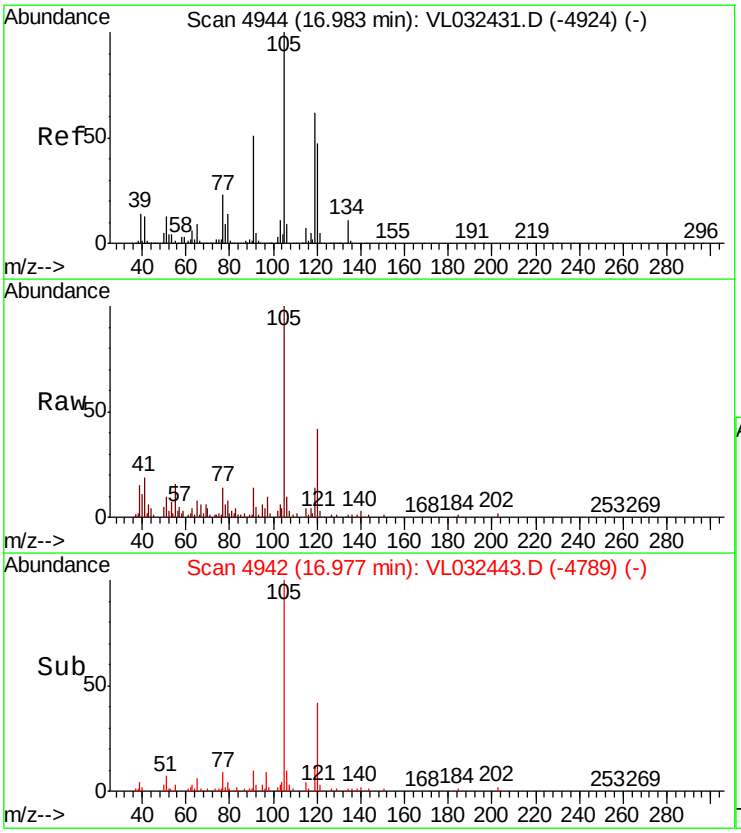

#73
1,3,5-Trimethylbenzene
Concen: 0.063 ppbv
RT: 16.21 min Scan# 4704
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:105 Resp: 25444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.6 | 37.9 | 56.9 |

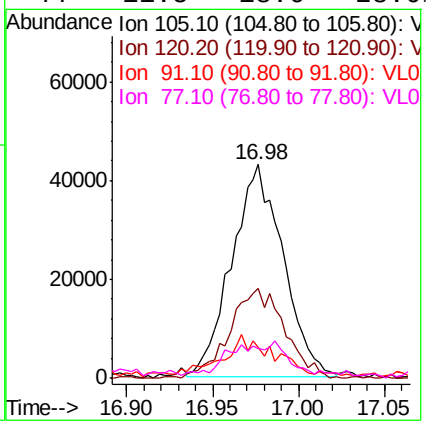


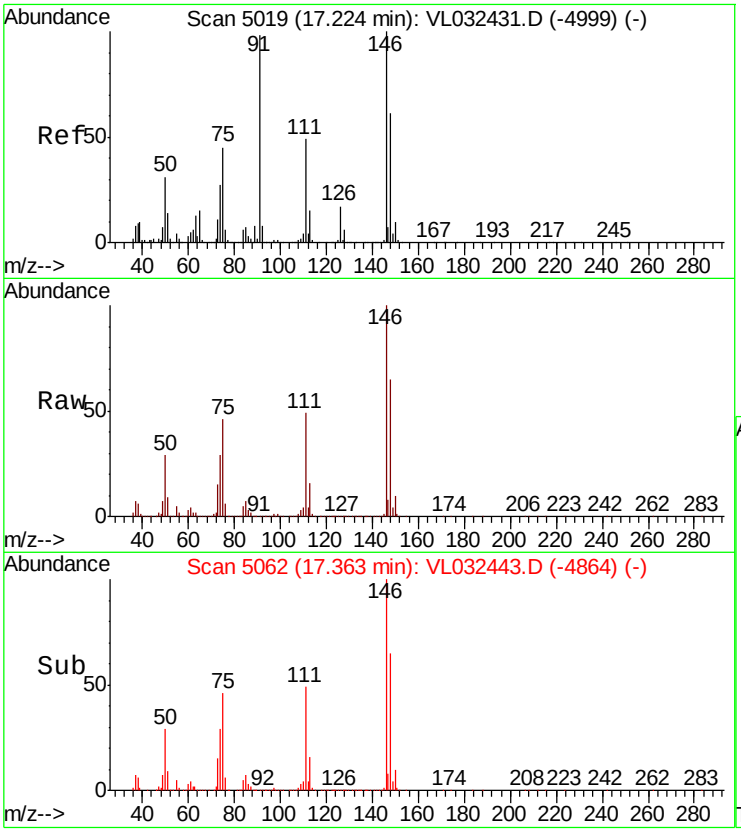




#74
1,2,4-Trimethylbenzene
Concen: 0.203 ppbv
RT: 16.98 min Scan# 4942
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:105 Resp: 89080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.1 | 37.8 | 56.8 |
| 91 | 12.5 | 41.4 | 62.0# |
| 77 | 11.5 | 18.6 | 28.0# |



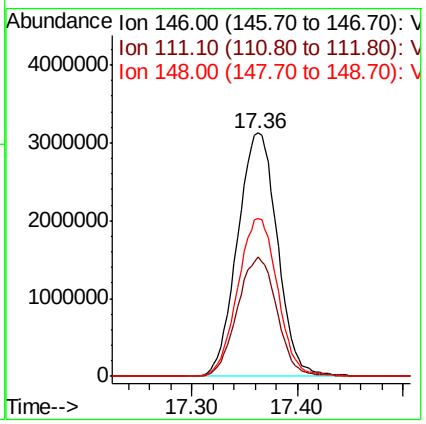


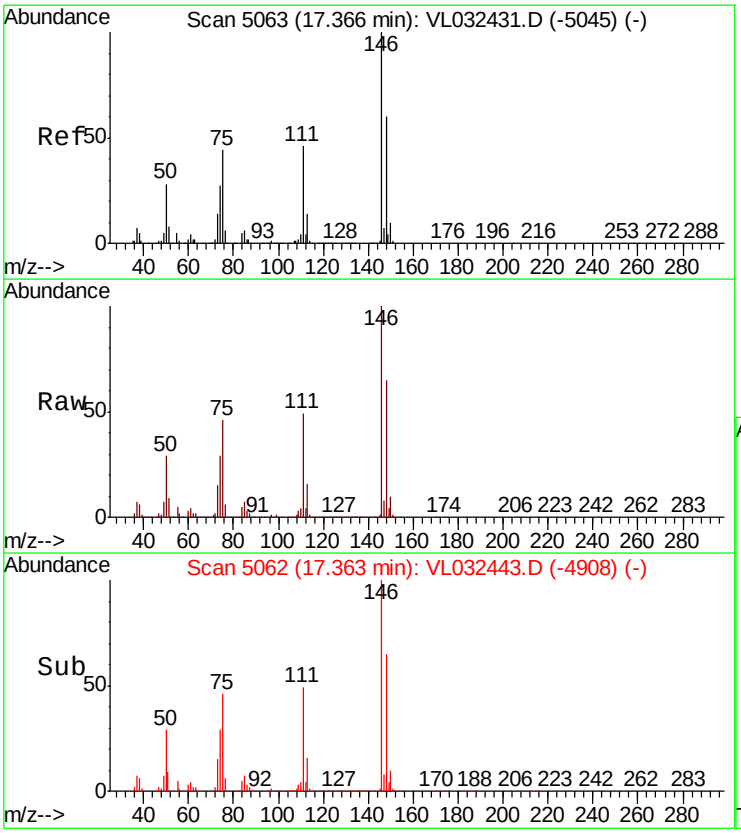

#75
1,3-Dichlorobenzene
Concen: 31.649 ppbv
RT: 17.36 min Scan# 5062
Delta R.T. 0.14 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:146 Resp: 8232460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.5 | 24.5 | 73.5 |
| 148 | 64.9 | 32.0 | 96.2 |

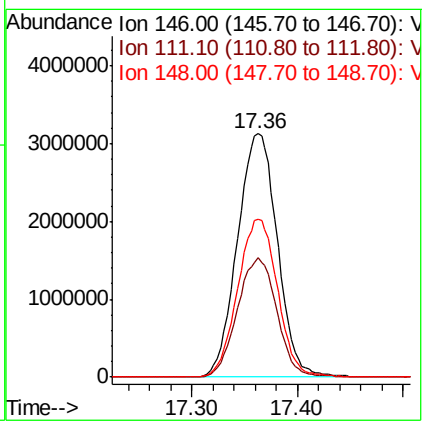


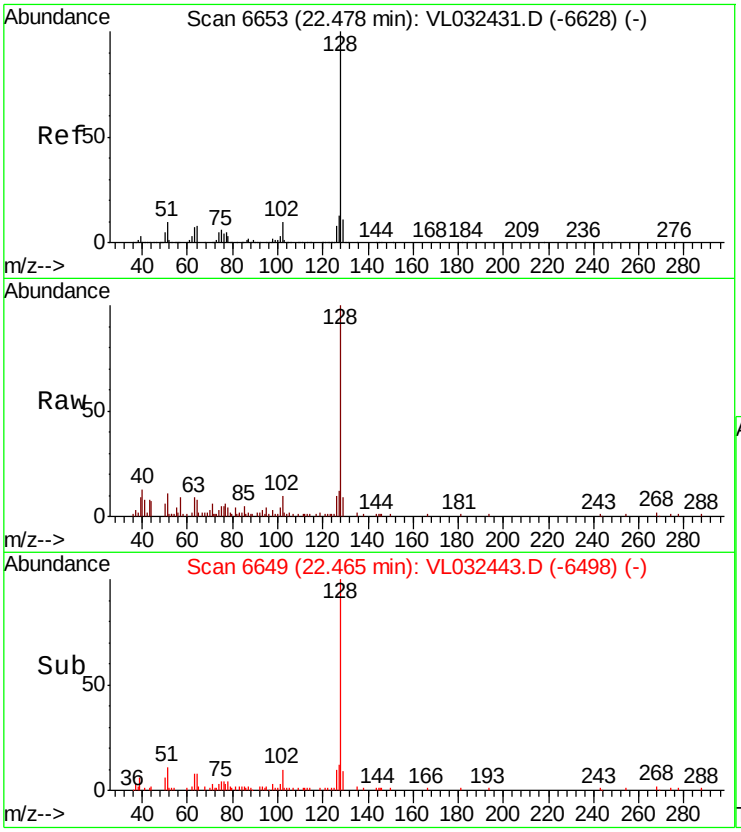




#76
1,4-Dichlorobenzene
Concen: 34.109 ppbv
RT: 17.36 min Scan# 5062
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:146 Resp: 8232460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.4 | 23.4 | 70.2 |
| 148 | 64.9 | 32.0 | 96.2 |



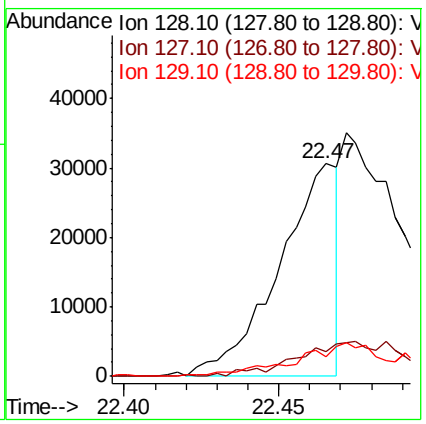


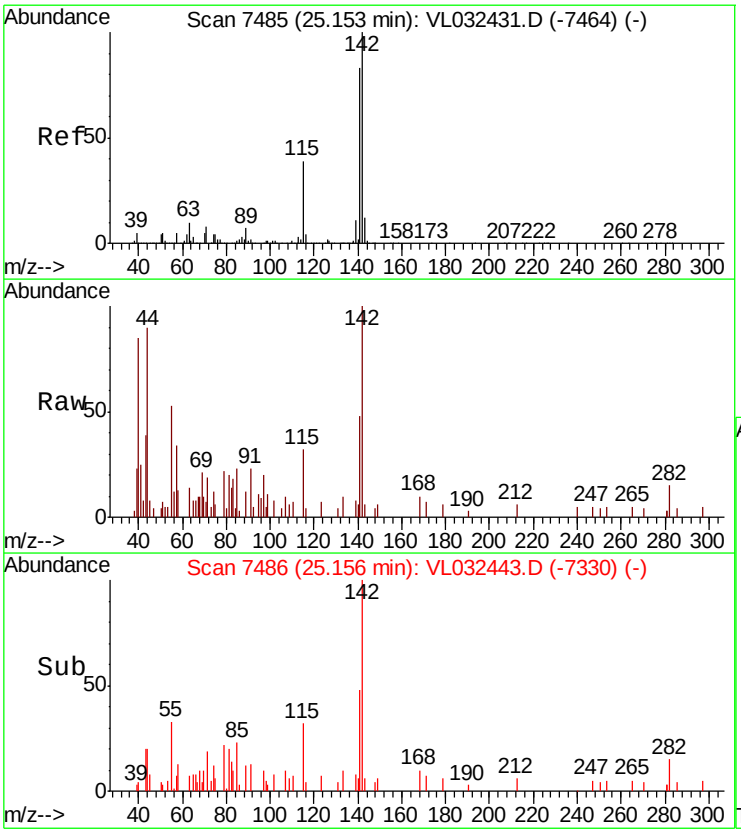

#79
Naphthalene
Concen: 0.114 ppbv
RT: 22.47 min Scan# 6649
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
SS-2

Tgt Ion:128 Resp: 40500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 10.8 | 10.2 | 15.2 |
| 129 | 9.0 | 8.5 | 12.7 |




#80
Naphthalene,2-methyl-
Concen: 0.090 ppbv
RT: 25.16 min Scan# 7486
Delta R.T. 0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:142 Resp: 8532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 69.8 | 67.0 | 100.6 |
| 115 | 44.7 | 31.3 | 46.9 |