Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF012419\
Data File : VF061496.D
Acq On : 24 Jan 2019 13:15
Operator : VA/AP
Sample : K1216-01RE
Misc : 5.03g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MULCH-1RE

Quant Time: Jan 25 04:08:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 4.91 | 168 | 134849 | 50.00 | ug/l | 0.05 |
| 34) 1,4-Difluorobenzene | 5.64 | 114 | 205404 | 50.00 | ug/l | 0.05 |
| 63) Chlorobenzene-d5 | 9.81 | 117 | 107900 | 50.00 | ug/l | 0.05 |
| 72) 1,4-Dichlorobenzene-d4 | 12.58 | 152 | 25921 | 50.00 | ug/l | 0.04 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.88 | 65 | 66339 | 39.85 | ug/l | 0.05 |
| Spiked Amount 50.000 | | | Recovery = 79.70% | | | |
| 35) Dibromofluoromethane | 4.15 | 113 | 74498 | 45.96 | ug/l | 0.05 |
| Spiked Amount 50.000 | | | Recovery = 91.92% | | | |
| 50) Toluene-d8 | 7.59 | 98 | 135453 | 30.50 | ug/l | 0.05 |
| Spiked Amount 50.000 | | | Recovery = 61.00% | | | |
| 62) 4-Bromofluorobenzene | 11.44 | 95 | 29530 | 14.23 | ug/l | 0.04 |
| Spiked Amount 50.000 | | | Recovery = 28.46% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 11) Tert butyl alcohol | 2.58 | 59 | 198 | 2.810 | ug/l # | 1 |
| 13) Acrolein | 1.95 | 56 | 552 | 19.055 | ug/l | 89 |
| 14) Allyl chloride | 2.11 | 41 | 484 | Below Cal # | | 48 |
| 15) Acrylonitrile | 2.96 | 53 | 615 | 3.407 | ug/l # | 59 |
| 16) Acetone | 2.26 | 43 | 7085 | 21.213 | ug/l # | 86 |
| 18) Methyl Acetate | 2.38 | 43 | 5489 | 8.287 | ug/l # | 77 |
| 20) Methylene Chloride | 2.21 | 84 | 3097 | 1.010 | ug/l # | 75 |
| 23) Vinyl Acetate | 3.26 | 43 | 458 | 3.435 | ug/l # | 78 |
| 25) 2-Butanone | 4.39 | 43 | 1576 | 2.837 | ug/l # | 53 |
| 29) Tetrahydrofuran | 4.12 | 42 | 682 | 2.852 | ug/l # | 75 |
| 49) 1,4-Dioxane | 6.71 | 88 | 63 | Below Cal # | | 34 |
| 51) 4-Methyl-2-Pentanone | 8.29 | 43 | 2116 | 2.409 | ug/l | 92 |
| 58) 2-Chloroethyl Vinyl ether | 7.45 | 63 | 121 | 28.408 | ug/l # | 47 |
| 59) 2-Hexanone | 9.54 | 43 | 2780 | 4.539 | ug/l | 77 |
| 86) p-Isopropyltoluene | 12.48 | 119 | 6308 | 3.213 | ug/l | 92 |
| 87) 1,3-Dichlorobenzene | 12.49 | 146 | 671 | 1.079 | ug/l | 81 |
| 92) 1,2-Dibromo-3-Chloropropan | 13.66 | 75 | 71 | 1.066 | ug/l # | 1 |
| 93) 1,2,4-Trichlorobenzene | 14.22 | 180 | 630 | 1.080 | ug/l # | 75 |
| 95) Naphthalene | 14.48 | 128 | 6481 | 5.847 | ug/l # | 95 |

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

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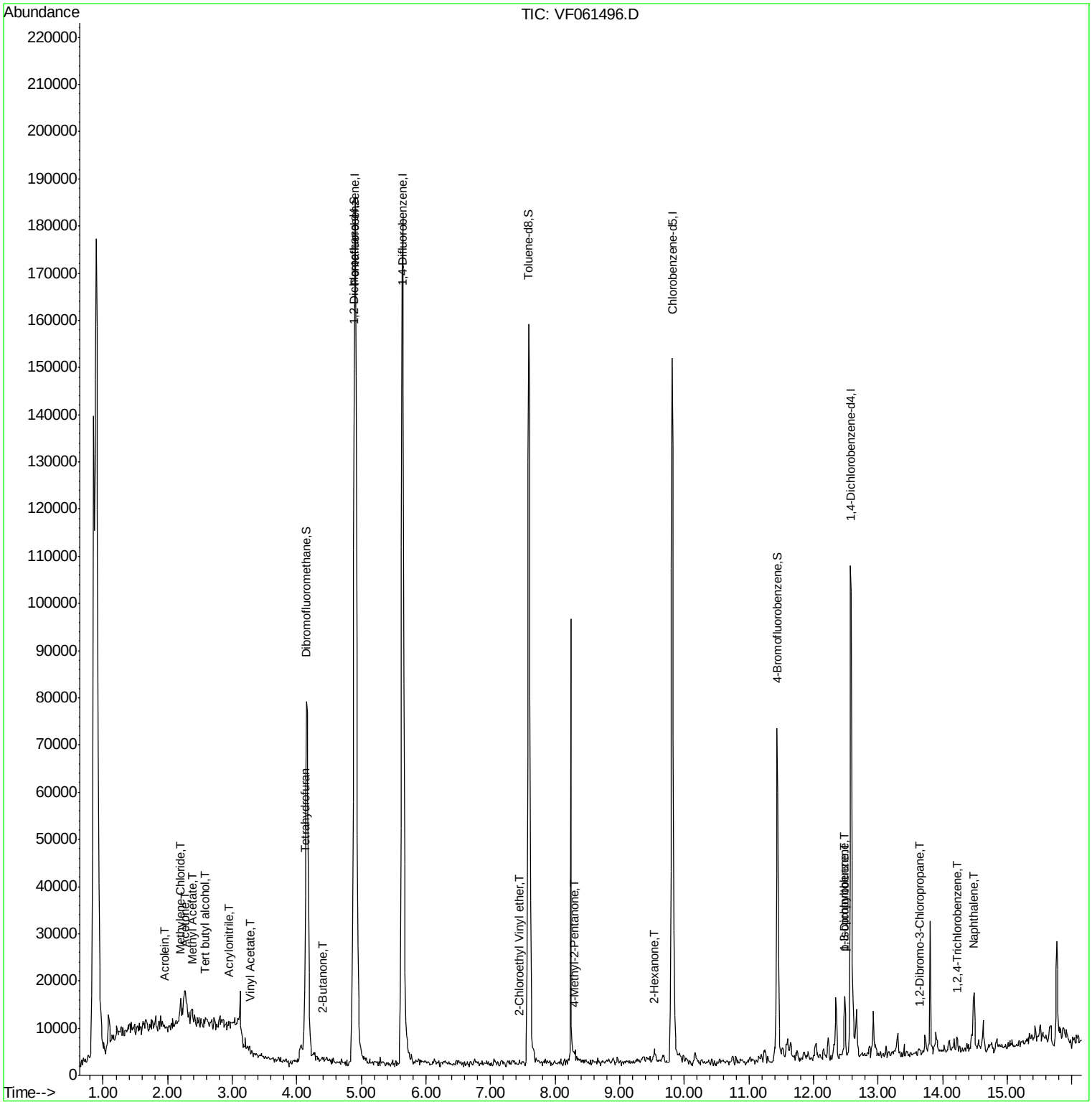
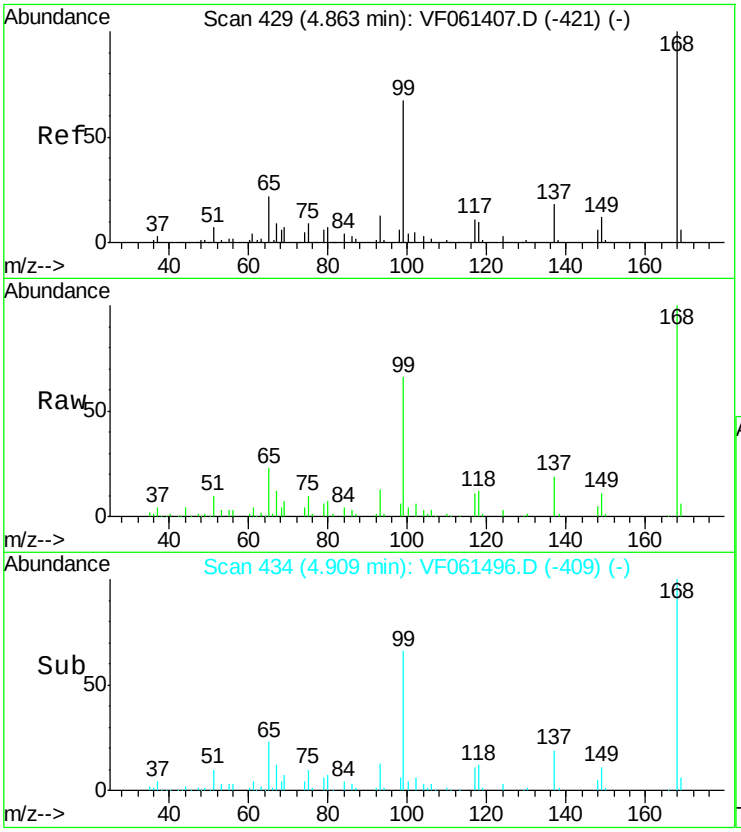
Misc : 5.03g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Quant Time: Jan 25 04:08:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration



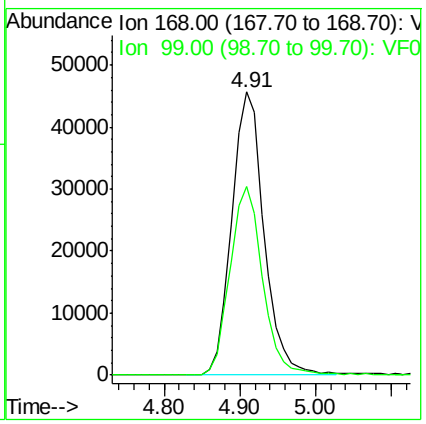


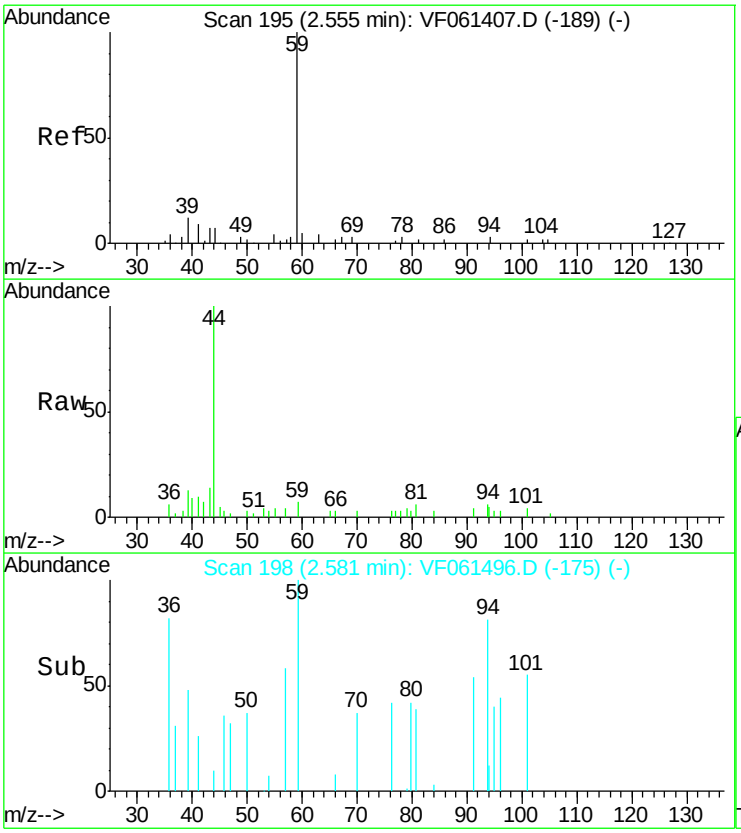

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.91 min Scan# 434
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion:168 Resp: 134849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.5 | 53.5 | 80.3 |

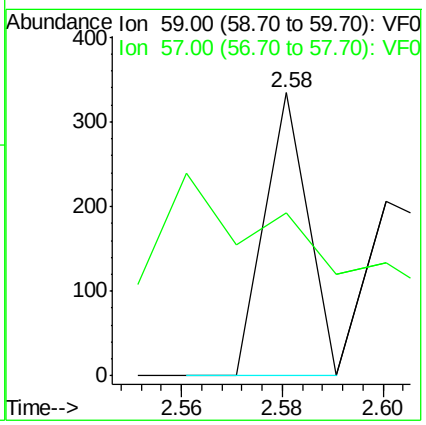


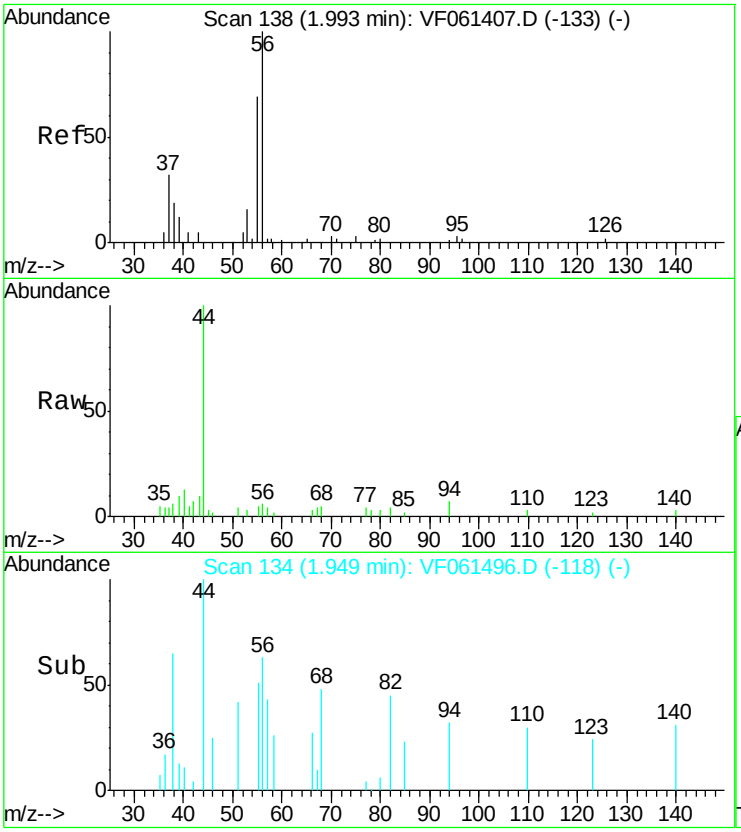




#11
Tert butyl alcohol
Concen: 2.810 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 59 Resp: 198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 57.8 | 11.9 | 17.9# |



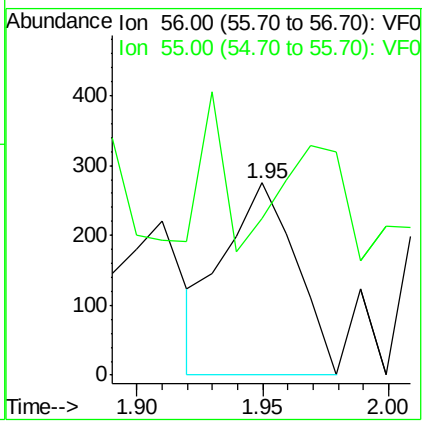


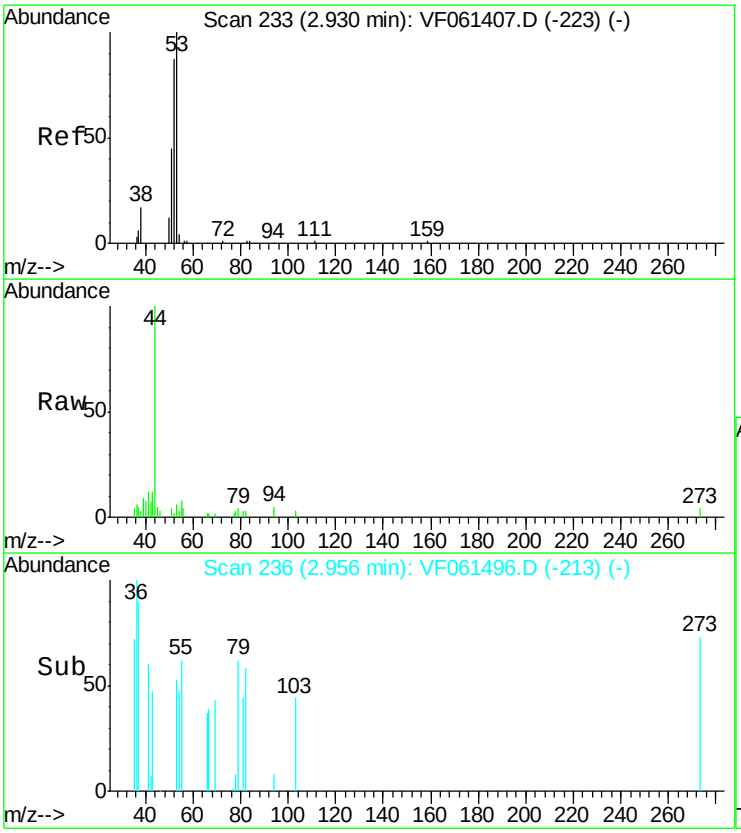

#13
Acrolein
Concen: 19.055 ug/l
RT: 1.95 min Scan# 134
Delta R.T. -0.04 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion: 56 Resp: 552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 81.5 | 57.5 | 86.3 |

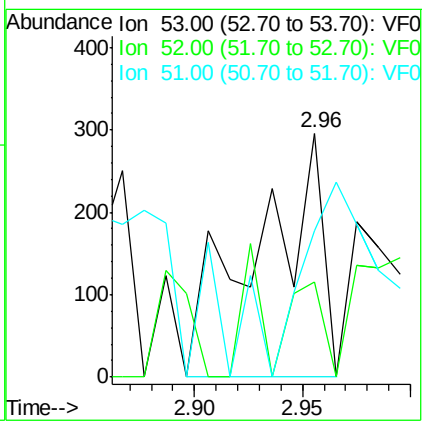


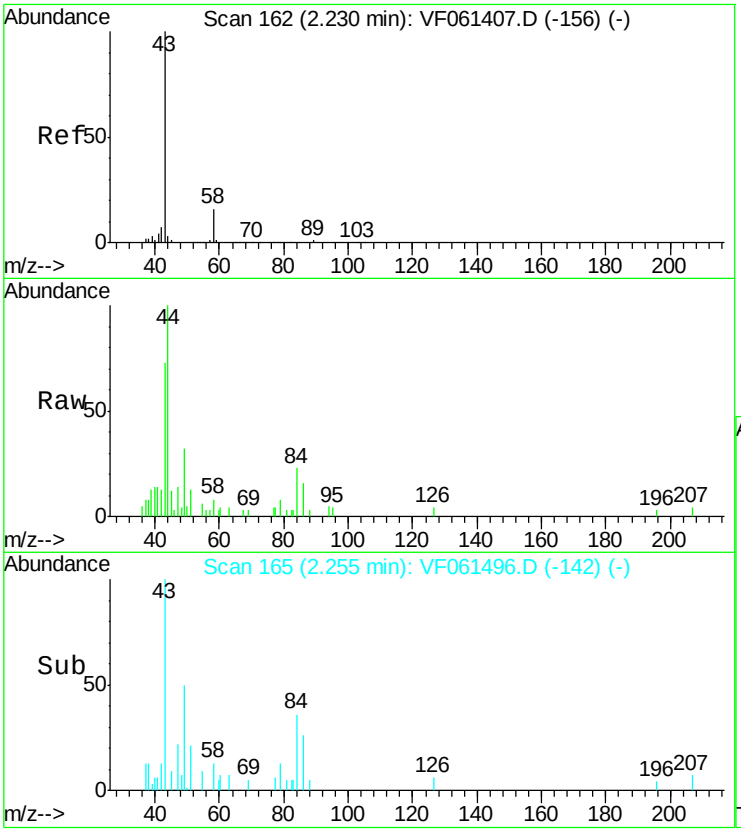




#15
Acrylonitrile
Concen: 3.407 ug/l
RT: 2.96 min Scan# 236
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 53 Resp: 615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 38.9 | 69.6 | 104.4# |
| 51 | 59.8 | 36.8 | 55.2# |



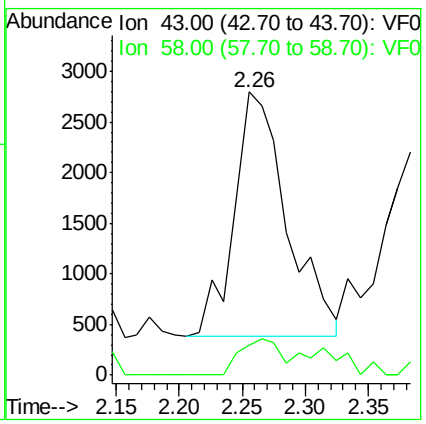


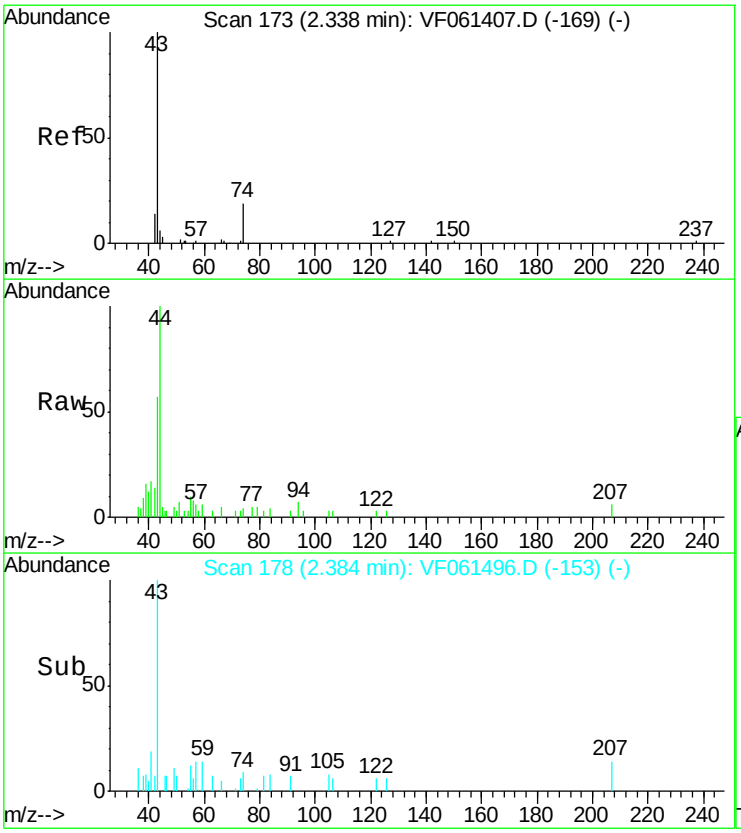

#16
Acetone
Concen: 21.213 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion: 43 Resp: 7085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 10.8 | 13.3 | 19.9# |

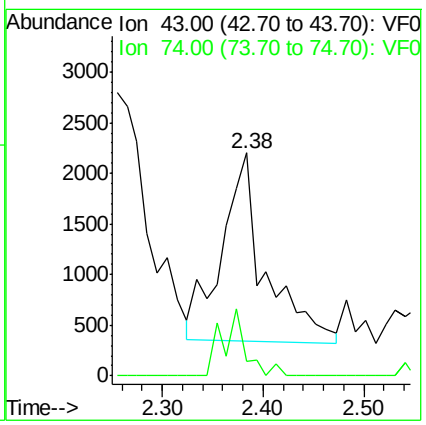


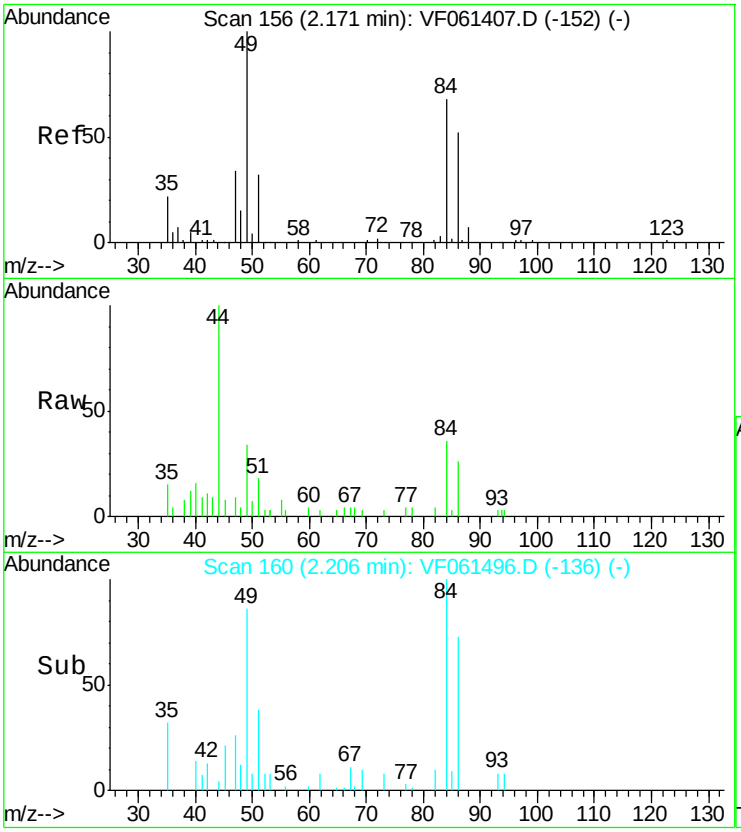




#18
Methyl Acetate
Concen: 8.287 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 43 Resp: 5489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 6.7 | 13.4 | 20.0# |



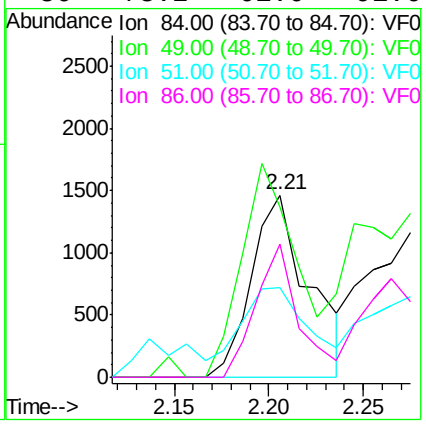


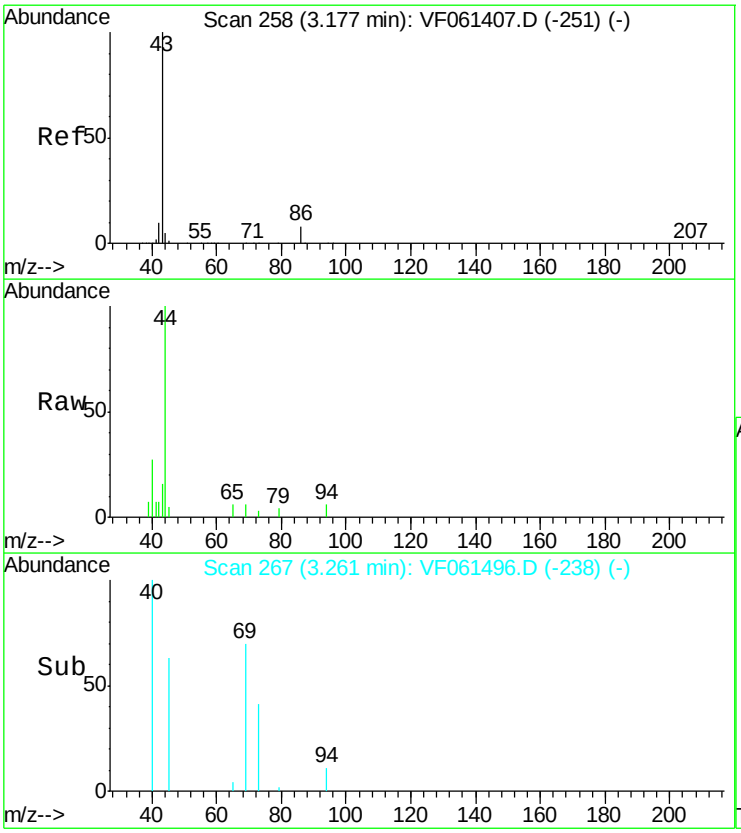

#20
Methylene Chloride
Concen: 1.010 ug/l
RT: 2.21 min Scan# 160
Delta R.T. 0.04 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :** MSVOA_F
**ClientSampleId :** MULCH-1RE

Tgt Ion: 84 Resp: 3097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 93.5 | 120.0 | 180.0# |
| 51 | 48.8 | 38.6 | 58.0 |
| 86 | 73.2 | 61.0 | 91.6 |

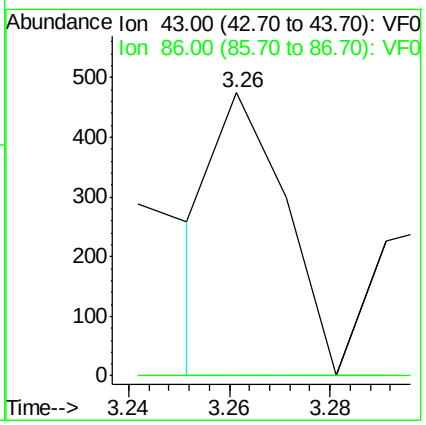


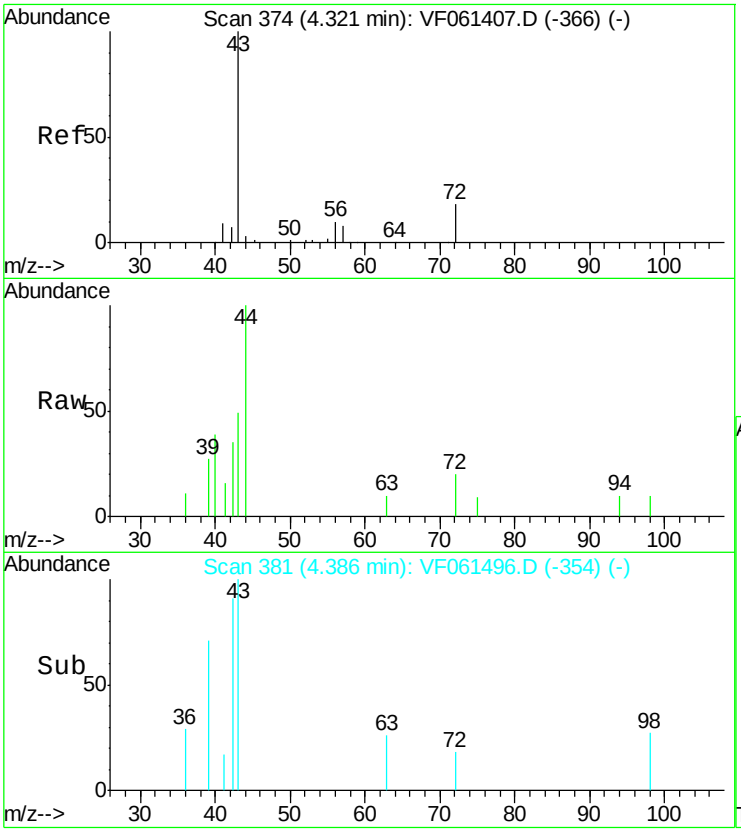




#23
Vinyl Acetate
Concen: 3.435 ug/l
RT: 3.26 min Scan# 267
Delta R.T. 0.09 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 43 Resp: 458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.0 | 6.2 | 9.4# |



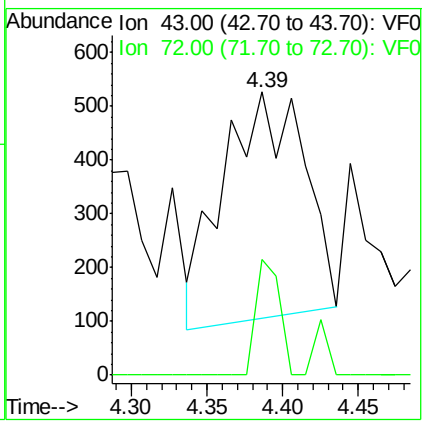


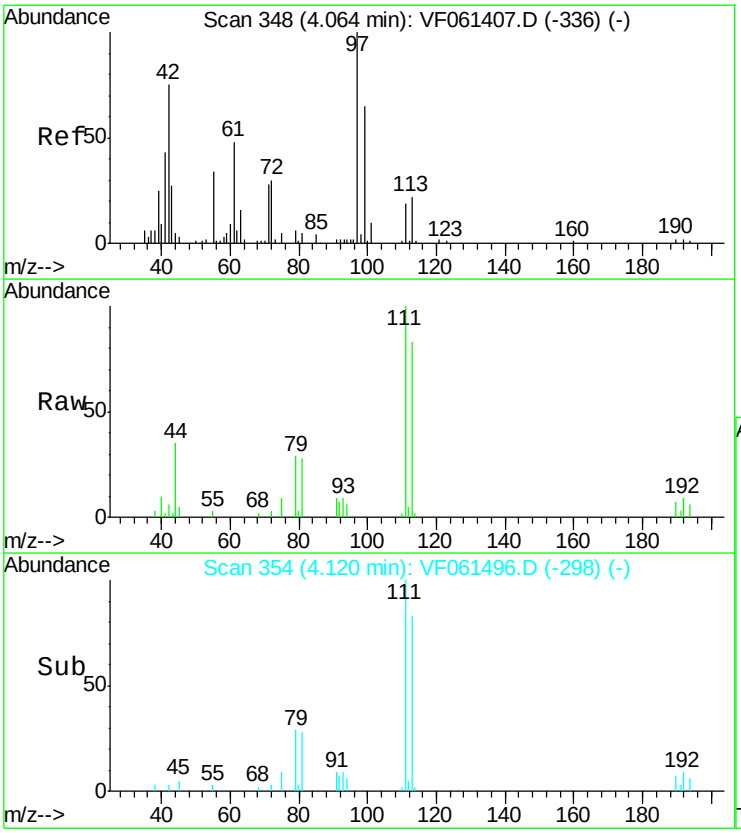

#25
2-Butanone
Concen: 2.837 ug/l
RT: 4.39 min Scan# 381
Delta R.T. 0.07 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :** MSVOA_F
**ClientSampleId :** MULCH-1RE

Tgt Ion: 43 Resp: 1576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 41.0 | 15.8 | 23.6# |

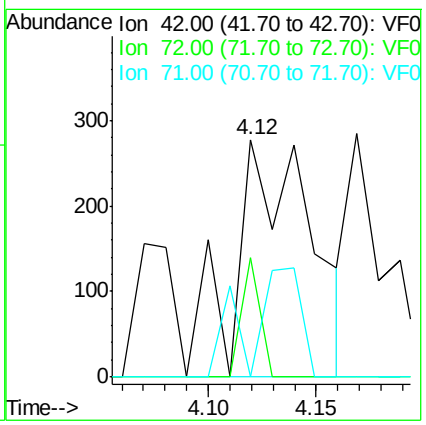


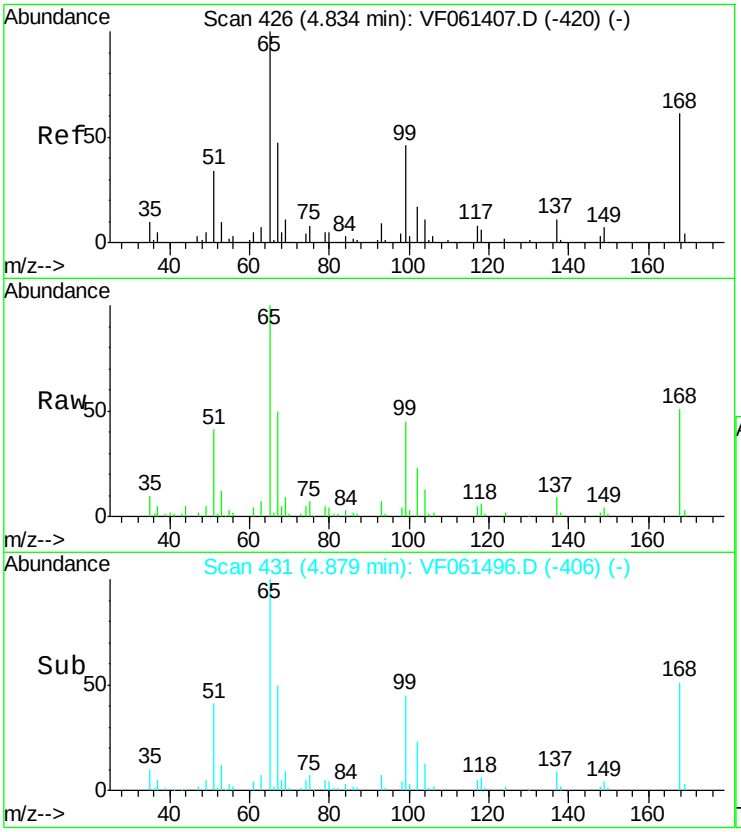




#29
Tetrahydrofuran
Concen: 2.852 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.06 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 42 Resp: 682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 12.2 | 28.9 | 43.3# |
| 71 | 31.2 | 29.6 | 44.4 |



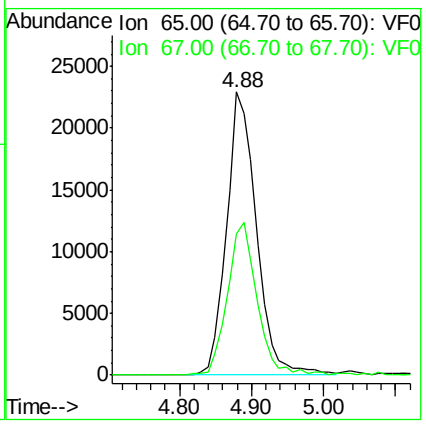


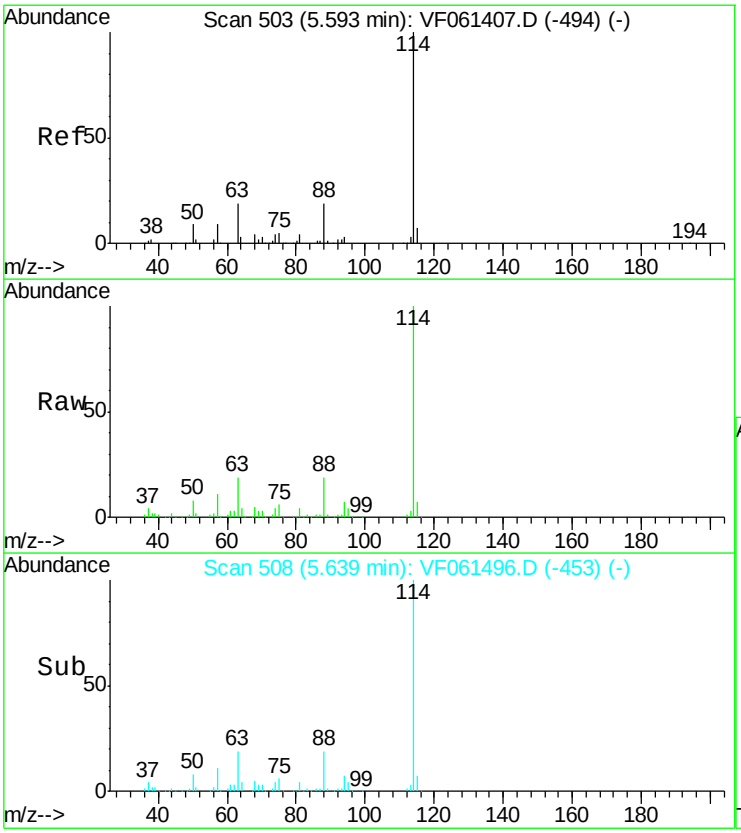

#33
1,2-Dichloroethane-d4
Concen: 39.846 ug/l
RT: 4.88 min Scan# 431
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :** MSVOA_F
**ClientSampleId :** MULCH-1RE

Tgt Ion: 65 Resp: 66339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.7 | 0.0 | 99.8 |

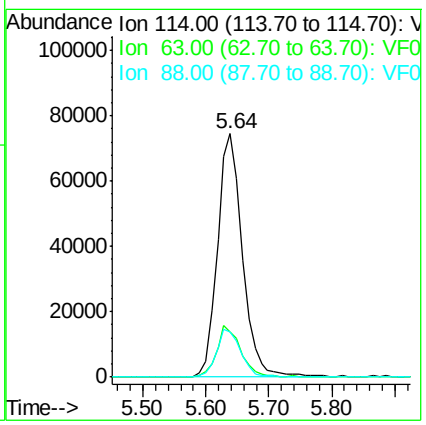


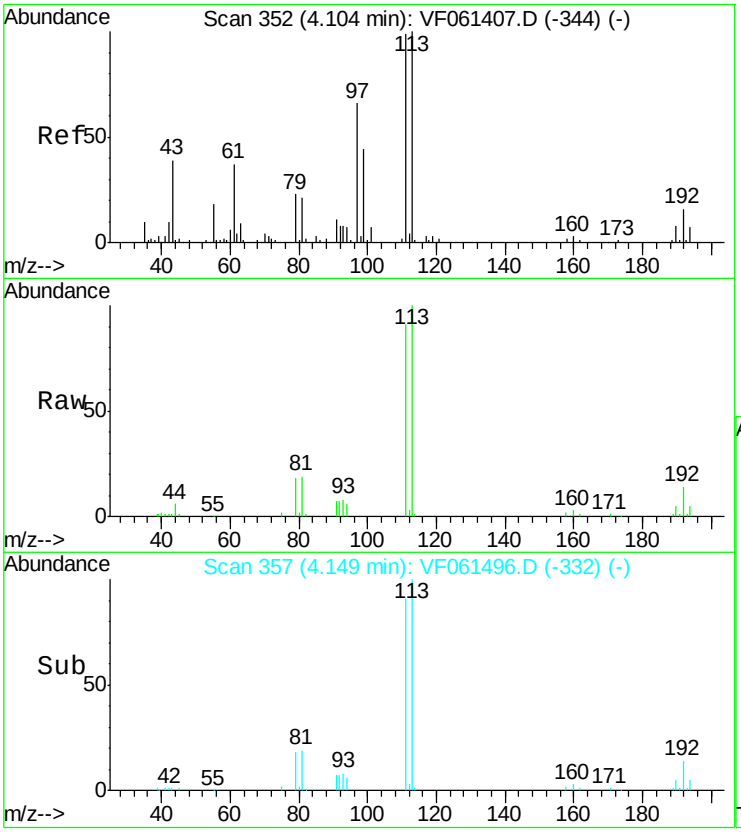




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.64 min Scan# 508
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion:114 Resp: 205404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 39.0 |
| 88 | 18.6 | 0.0 | 37.4 |



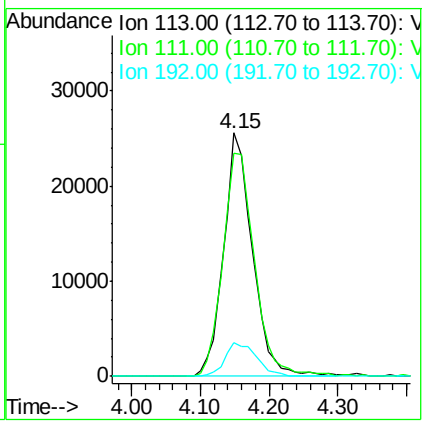


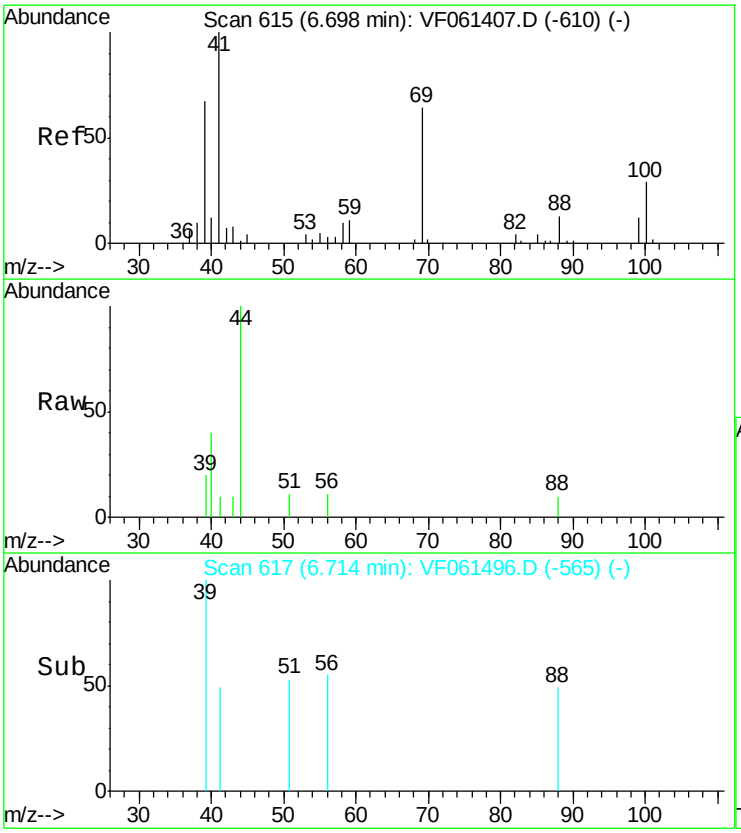

#35
Dibromofluoromethane
Concen: 45.963 ug/l
RT: 4.15 min Scan# 357
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion:113 Resp: 74498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 91.4 | 79.4 | 119.0 |
| 192 | 13.9 | 12.4 | 18.6 |

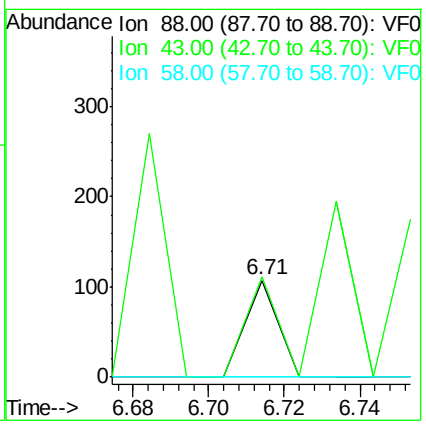


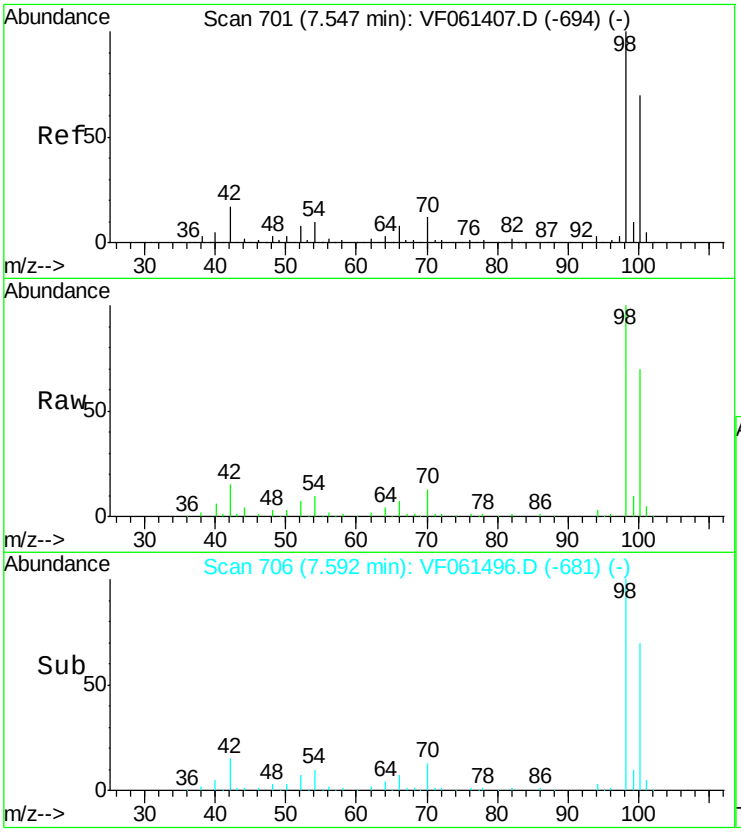




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.71 min Scan# 617
Delta R.T. 0.02 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 88 Resp: 63

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 103.7 | 55.5 | 83.3# |
| 58 | 0.0 | 59.9 | 89.9# |



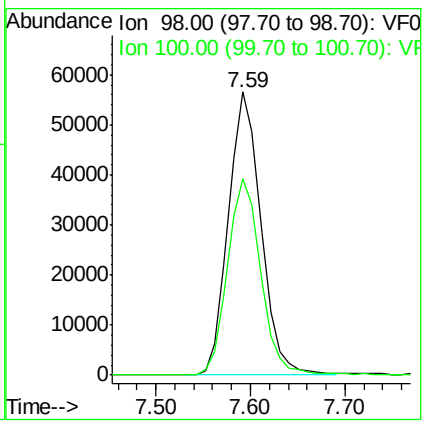


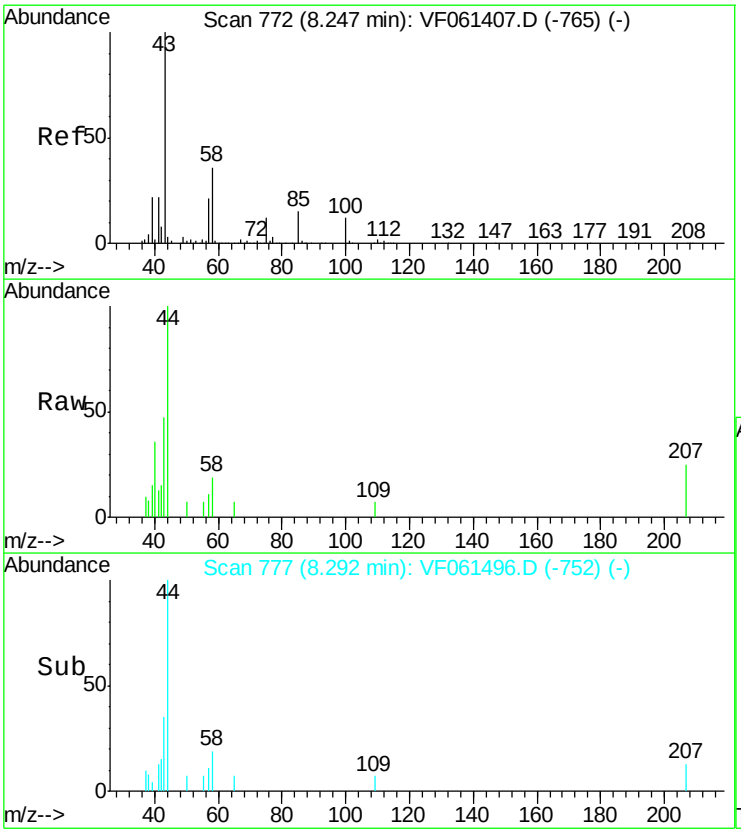

#50
Toluene-d8
Concen: 30.502 ug/l
RT: 7.59 min Scan# 706
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion: 98 Resp: 135453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 69.5 | 55.6 | 83.4 |

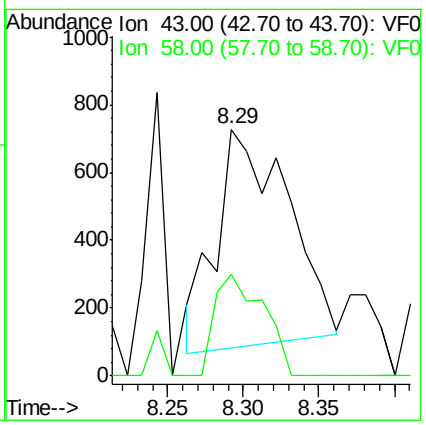


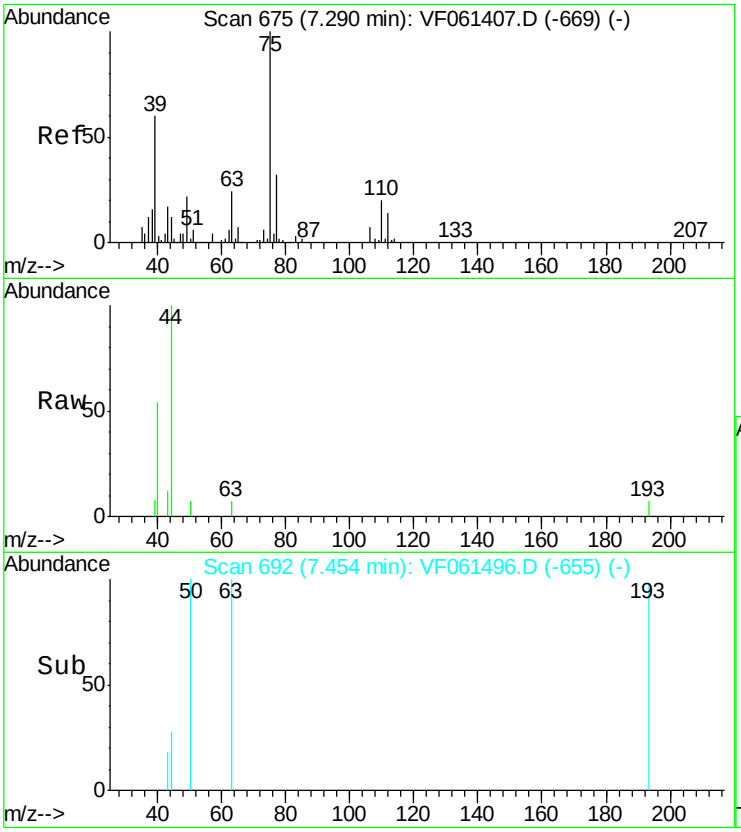




#51
4-Methyl-2-Pentanone
Concen: 2.409 ug/l
RT: 8.29 min Scan# 777
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 43 Resp: 2116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.0 | 28.8 | 43.2 |



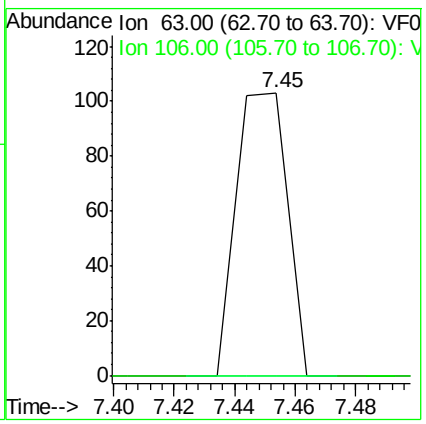


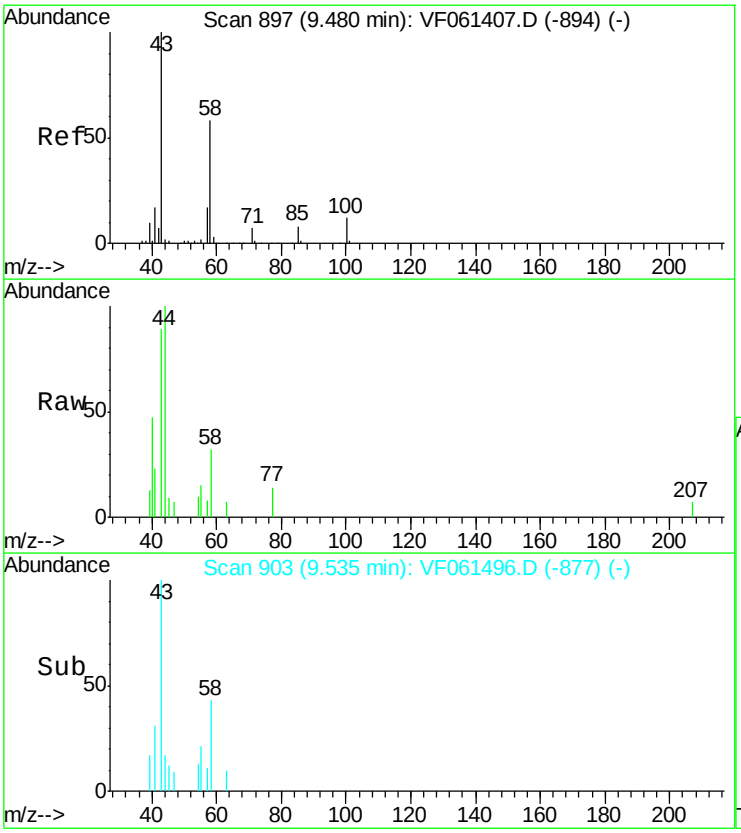

#58
2-Chloroethyl Vinyl ether
Concen: 28.408 ug/l
RT: 7.45 min Scan# 692
Delta R.T. 0.16 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :** MSVOA_F
**ClientSampleId :** MULCH-1RE

Tgt Ion: 63 Resp: 121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 0.0 | 21.9 | 32.9# |

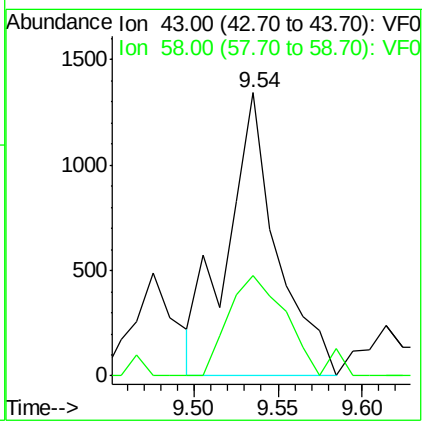


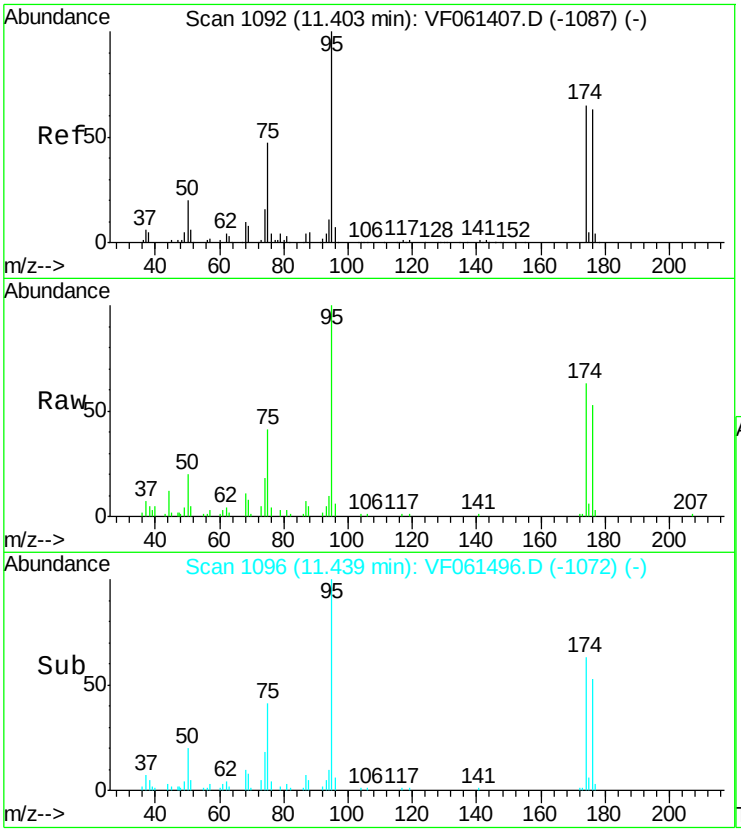




#59
2-Hexanone
Concen: 4.539 ug/l
RT: 9.54 min Scan# 903
Delta R.T. 0.06 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 43 Resp: 2780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.6 | 25.9 | 77.6 |



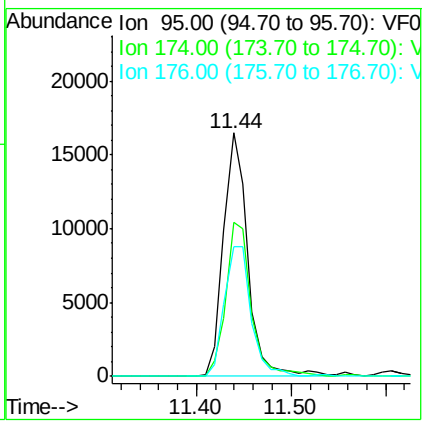


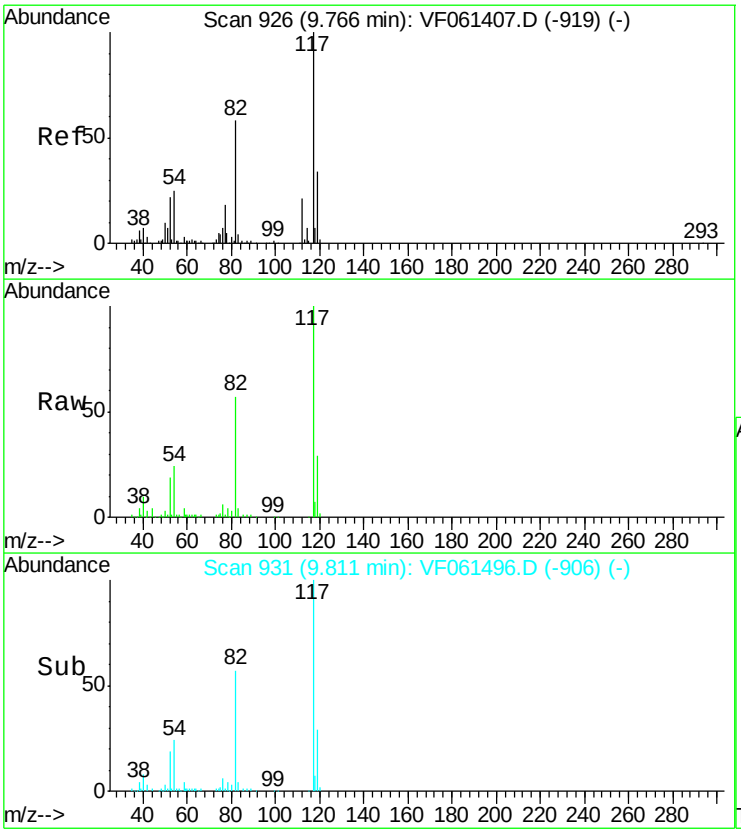

#62
4-Bromofluorobenzene
Concen: 14.232 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. 0.04 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion: 95 Resp: 29530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.4 | 0.0 | 130.4 |
| 176 | 53.2 | 0.0 | 126.2 |

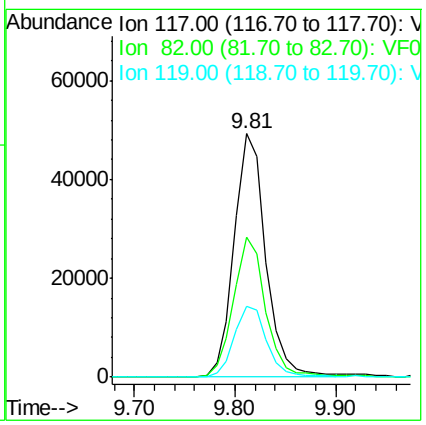


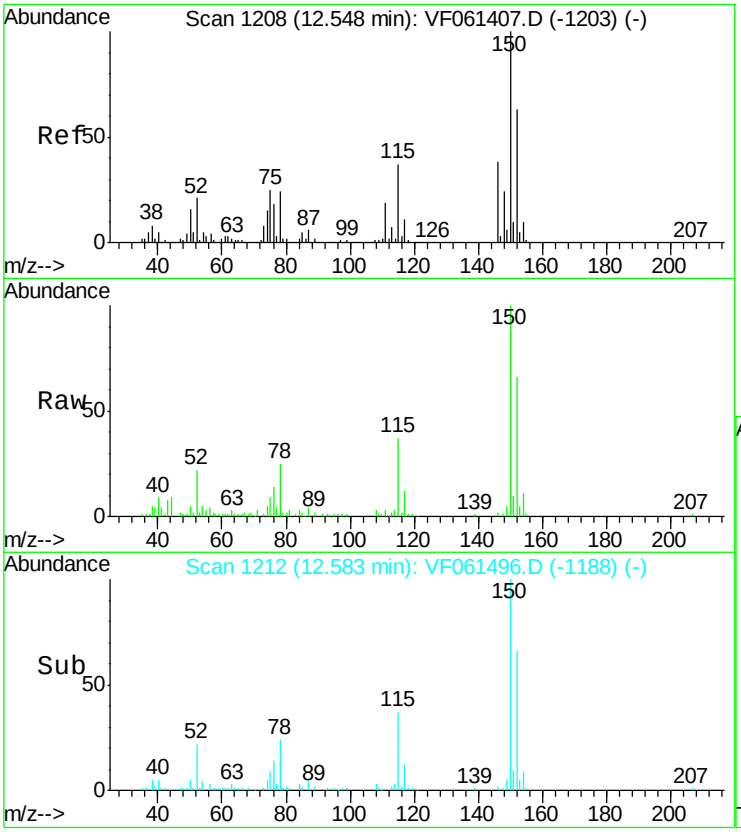




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.05 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion:117 Resp: 107900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.3 | 46.4 | 69.6 |
| 119 | 29.1 | 27.2 | 40.8 |



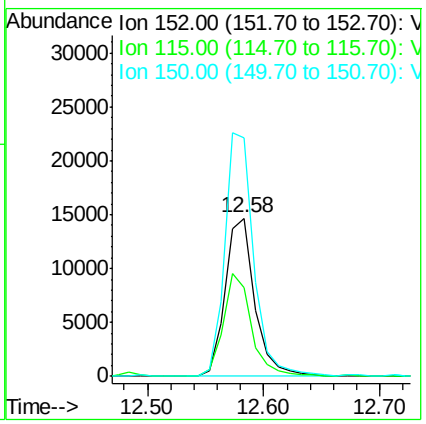


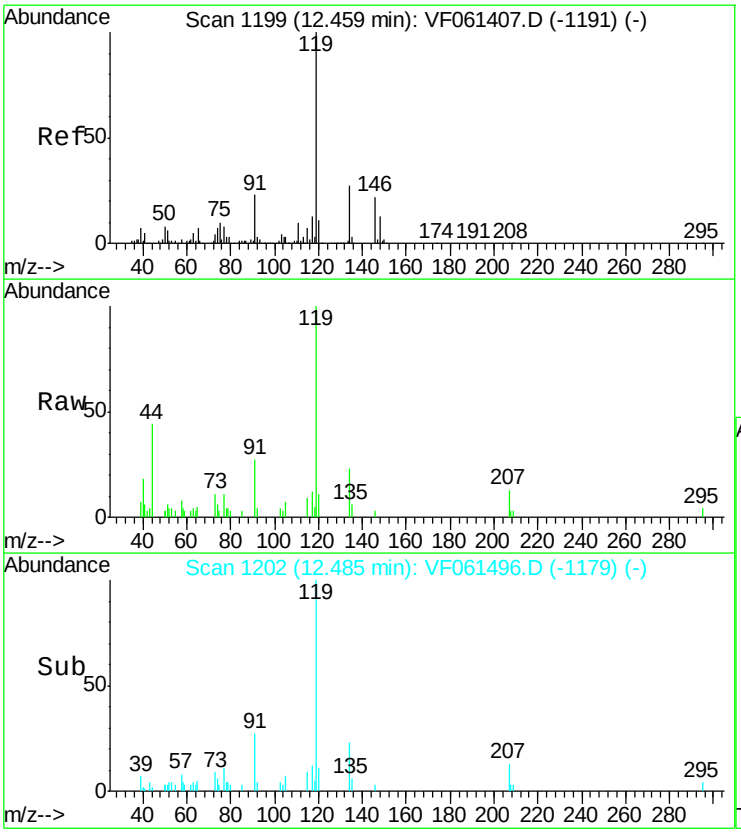

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1212
Delta R.T. 0.04 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :** MSVOA_F
**ClientSampleId :** MULCH-1RE

Tgt Ion:152 Resp: 25921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.9 | 30.0 | 90.0 |
| 150 | 150.4 | 0.0 | 321.4 |

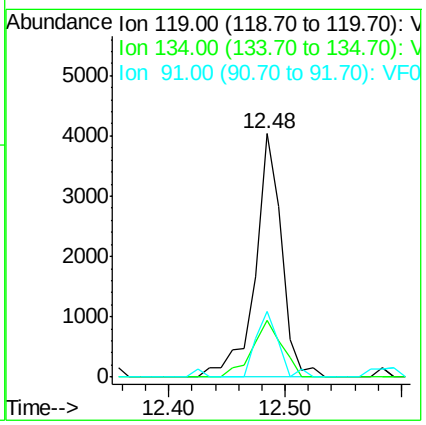


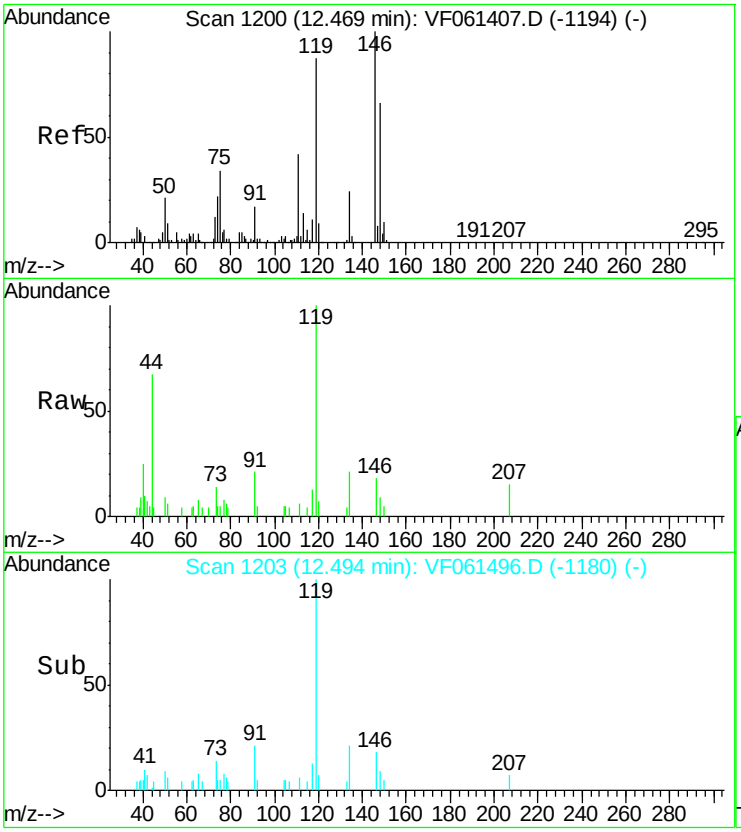




#86
p-Isopropyltoluene
Concen: 3.213 ug/l
RT: 12.48 min Scan# 1202
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion:119 Resp: 6308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.2 | 13.4 | 40.2 |
| 91 | 26.9 | 11.4 | 34.2 |



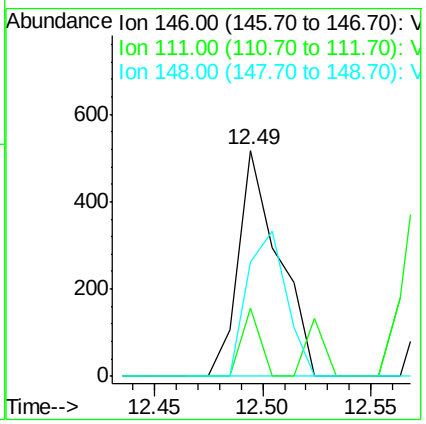


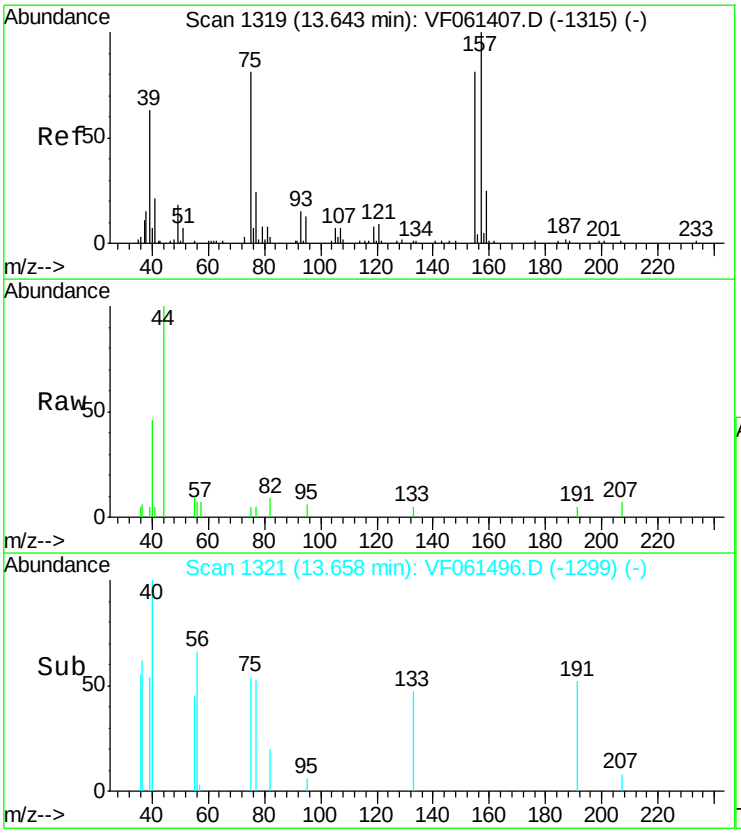

#87
1,3-Dichlorobenzene
Concen: 1.079 ug/l
RT: 12.49 min Scan# 1203
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion:146 Resp: 671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 30.3 | 21.1 | 63.4 |
| 148 | 50.8 | 32.9 | 98.6 |

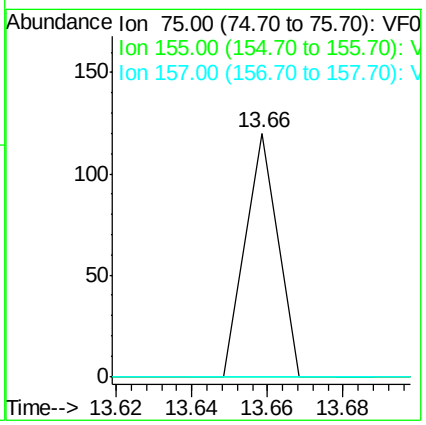


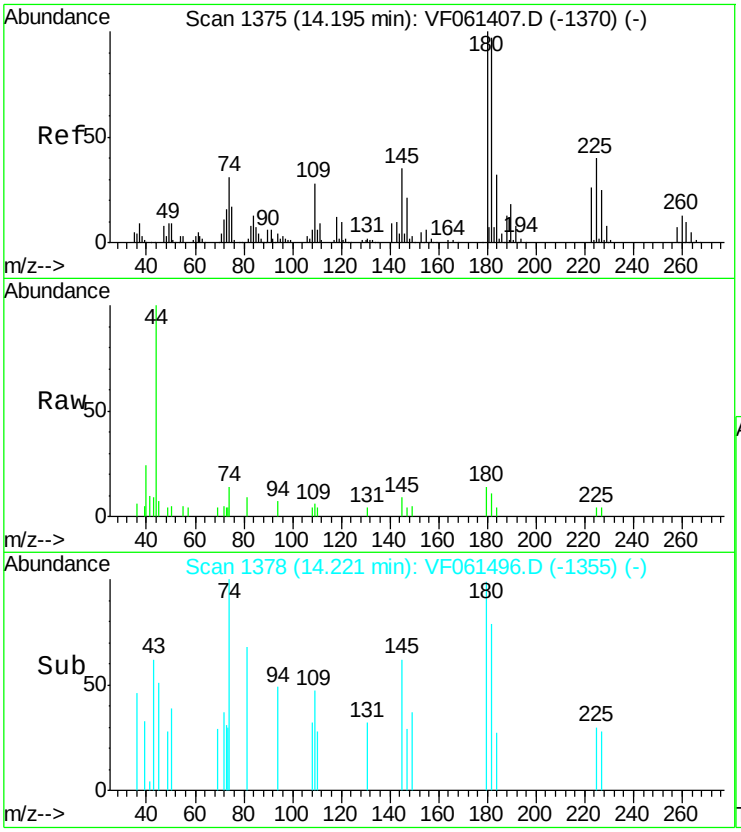




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.066 ug/l
RT: 13.66 min Scan# 1321
Delta R.T. 0.02 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 75 Resp: 71

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 0.0 | 49.7 | 149.1# |
| 157 | 0.0 | 61.4 | 184.1# |



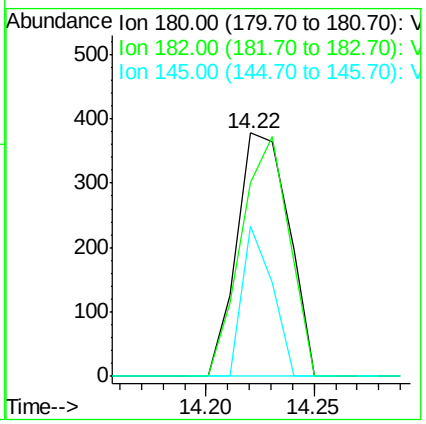


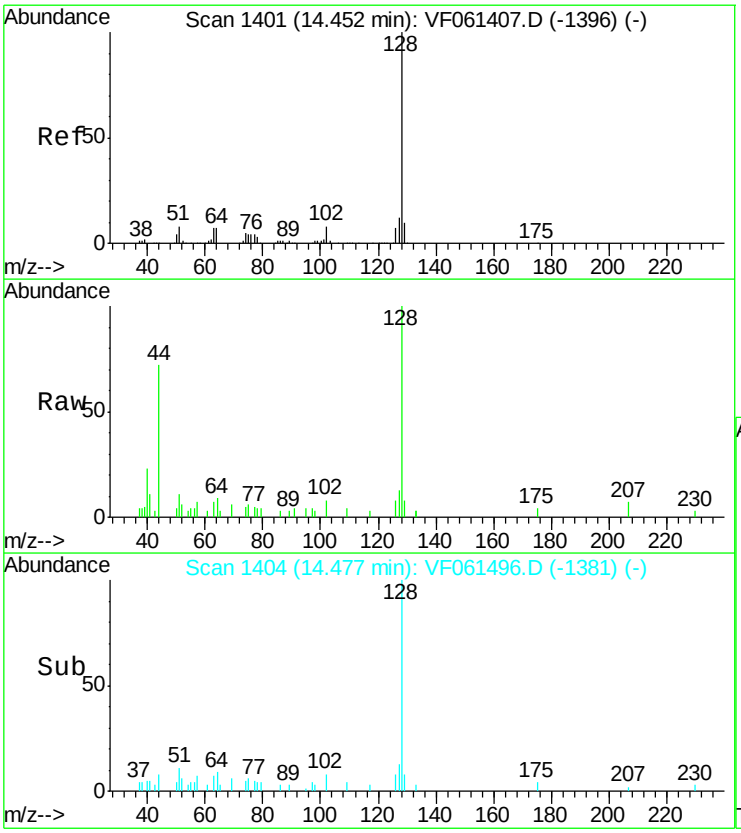

#93
1,2,4-Trichlorobenzene
Concen: 1.080 ug/l
RT: 14.22 min Scan# 1378
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

**Instrument :**
MSVOA_F
**ClientSampleId :**
MULCH-1RE

Tgt Ion:180 Resp: 630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 79.4 | 48.5 | 145.6 |
| 145 | 61.9 | 17.5 | 52.6# |




#95
Naphthalene
Concen: 5.847 ug/l
RT: 14.48 min Scan# 1404
Delta R.T. 0.03 min
Lab File: VF061496.D
Acq: 24 Jan 2019 13:15

Tgt Ion:128 Resp: 6481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 9.5 | 14.3 |
| 129 | 7.9 | 8.4 | 12.6# |