Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070218\
Data File : VF059391.D
Acq On : 2 Jul 2018 17:09
Operator : VA/AP
Sample : J3802-05
Misc : 5.83g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Quant Time: Jul 03 01:09:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 5.02 | 168 | 99425 | 50.00 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 5.74 | 114 | 152043 | 50.00 | ug/l | | -0.02 |
| 63) Chlorobenzene-d5 | 9.90 | 117 | 98081 | 50.00 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152 | 73529 | 50.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.99 | 65 | 85999 | 66.95 | ug/l | | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 133.90% | | | | |
| 35) Dibromofluoromethane | 4.27 | 113 | 75106 | 67.61 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 135.22% | | | | |
| 50) Toluene-d8 | 7.69 | 98 | 98169 | 35.69 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 71.38% | | | | |
| 62) 4-Bromofluorobenzene | 11.50 | 95 | 80112 | 51.63 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.26% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Chloromethane | 1.10 | 50 | 1305 | 2.14 | ug/l | # | 41 |
| 5) Bromomethane | 1.36 | 94 | 441 | Below Cal | | # | 4 |
| 11) Tert butyl alcohol | 2.66 | 59 | 2606 | 30.47 | ug/l | # | 90 |
| 13) Acrolein | 2.07 | 56 | 1071 | 7.51 | ug/l | # | 57 |
| 15) Acrylonitrile | 3.07 | 53 | 1121 | 7.44 | ug/l | # | 10 |
| 16) Acetone | 2.33 | 43 | 22814 | 63.50 | ug/l | | 96 |
| 17) Carbon Disulfide | 1.86 | 76 | 1668 | 1.21 | ug/l | # | 71 |
| 18) Methyl Acetate | 2.53 | 43 | 6070 | 9.53 | ug/l | | 94 |
| 19) Methyl tert-butyl Ether | 2.53 | 73 | 12421 | 5.68 | ug/l | # | 77 |
| 20) Methylene Chloride | 2.27 | 84 | 18417 | 21.33 | ug/l | # | 84 |
| 25) 2-Butanone | 4.48 | 43 | 3890 | 7.34 | ug/l | | 95 |
| 28) Bromochloromethane | 3.75 | 49 | 149 | Below Cal | | # | 6 |
| 29) Tetrahydrofuran | 4.23 | 42 | 981 | Below Cal | | # | 44 |
| 30) Chloroform | 4.00 | 83 | 2471 | 1.13 | ug/l | # | 82 |
| 37) Ethyl Acetate | 4.24 | 43 | 194 | Below Cal | | # | 26 |
| 41) Methacrylonitrile | 4.86 | 41 | 615 | 1.36 | ug/l | # | 45 |
| 49) 1,4-Dioxane | 6.74 | 88 | 74 | Below Cal | | # | 20 |
| 58) 2-Chloroethyl Vinyl ether | 7.76 | 63 | 158 | 1.99 | ug/l | | 100 |
| 59) 2-Hexanone | 9.60 | 43 | 695 | Below Cal | | | 75 |
| 87) 1,3-Dichlorobenzene | 12.55 | 146 | 275 | Below Cal | | # | 67 |

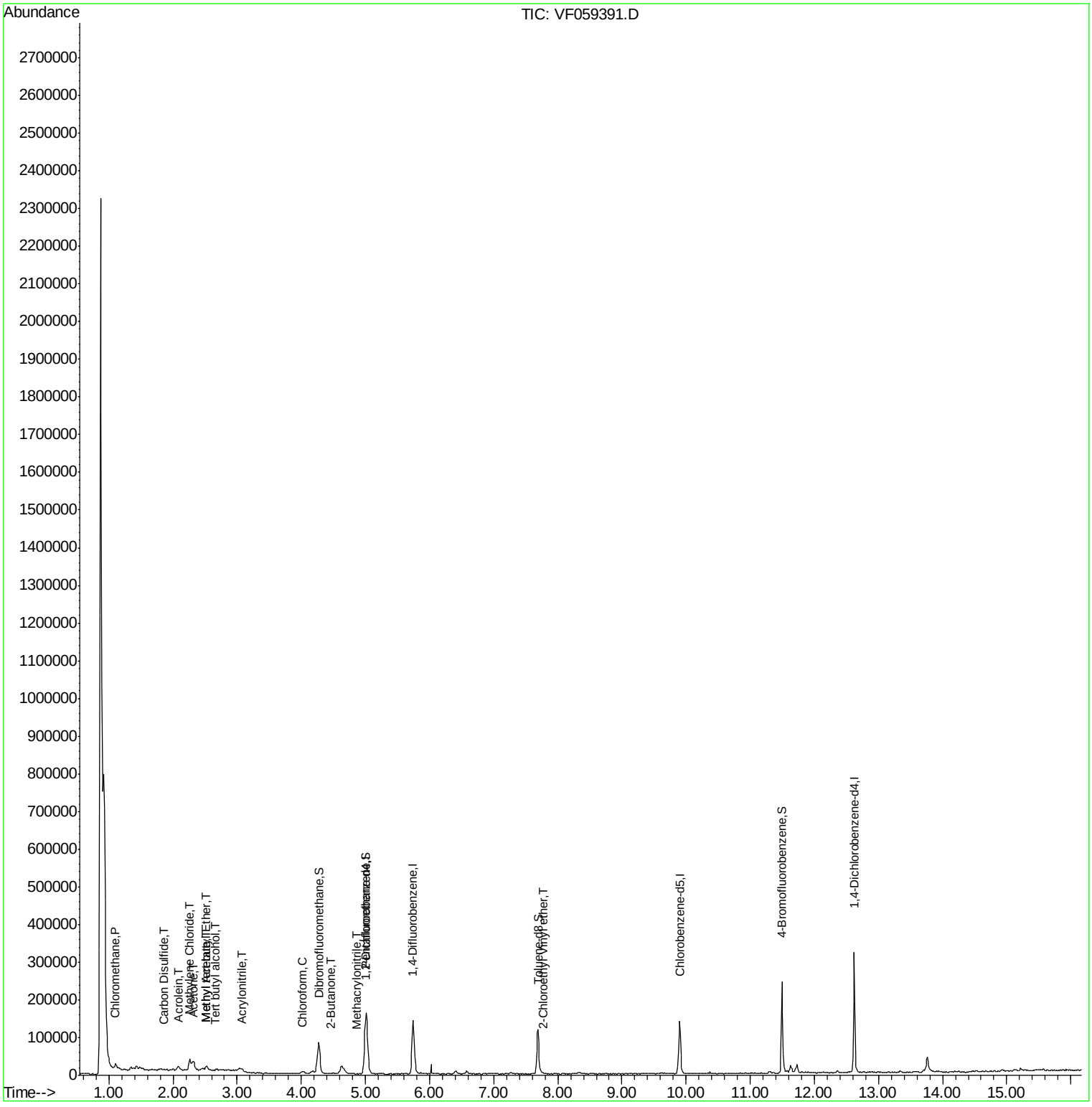
(#) = qualifier out of range (m) = manual integration (+) = signals summed

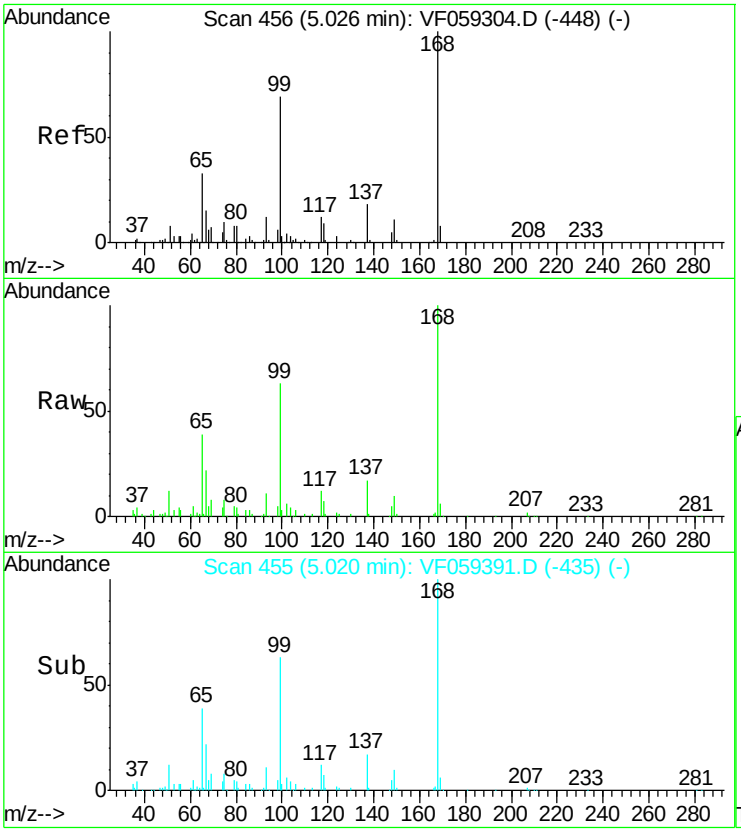
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
Data File : VF059391.D
Acq On : 2 Jul 2018 17:09
Operator : VA/AP
Sample : J3802-05
Misc : 5.83g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_F
**ClientSampleId :**
CF-5(6.0)

Quant Time: Jul 03 01:09:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration



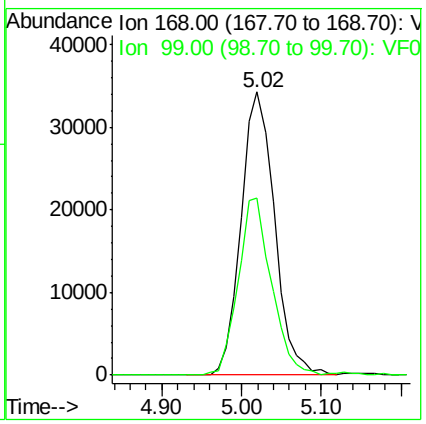


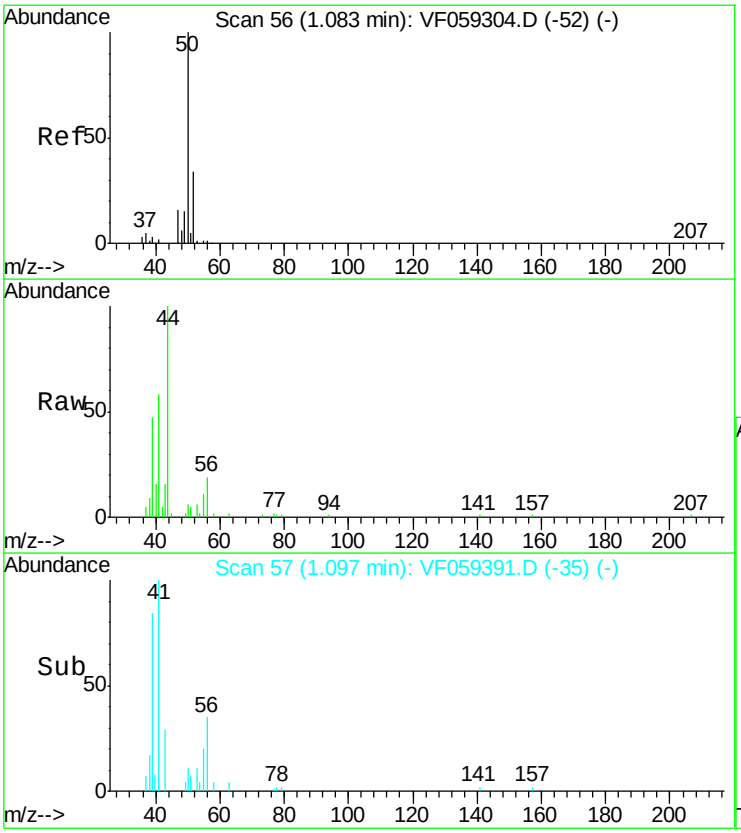

#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.02 min Scan# 455
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :**
MSVOA_F
**ClientSampleId :**
CF-5(6.0)

Tgt Ion:168 Resp: 99425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.6 | 54.9 | 82.3 |

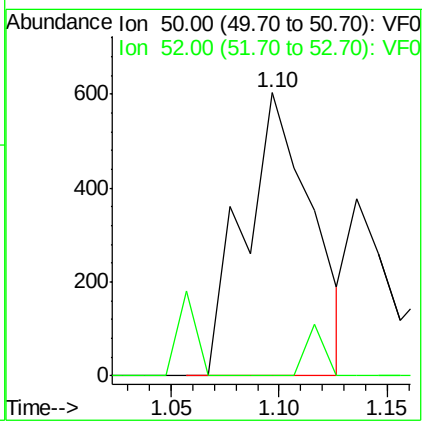


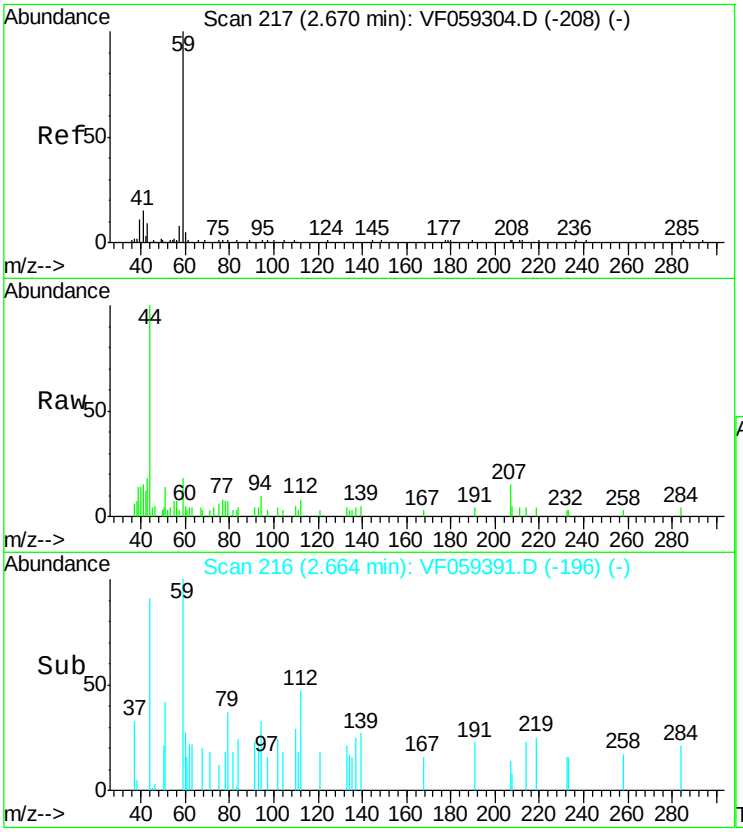




#3
Chloromethane
Concen: 2.14 ug/l
RT: 1.10 min Scan# 57
Delta R.T. 0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 50 Resp: 1305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 0.0 | 26.7 | 40.1# |



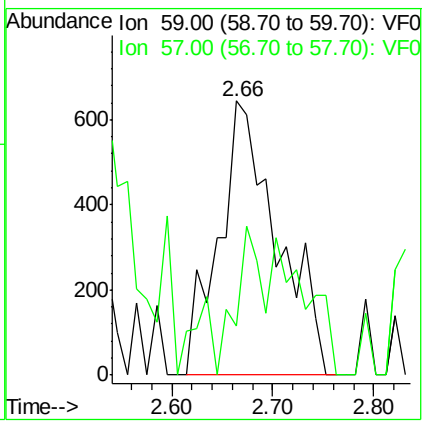


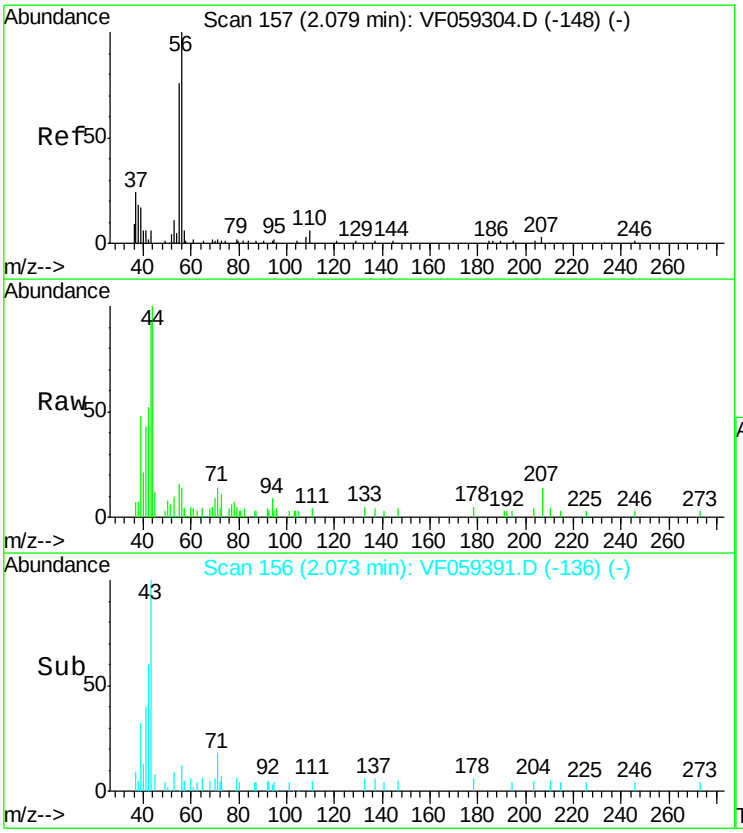

#11
Tert butyl alcohol
Concen: 30.47 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 59 Resp: 2606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 17.9 | 11.0 | 16.4# |

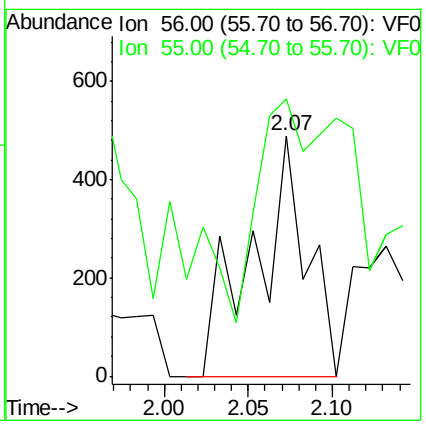


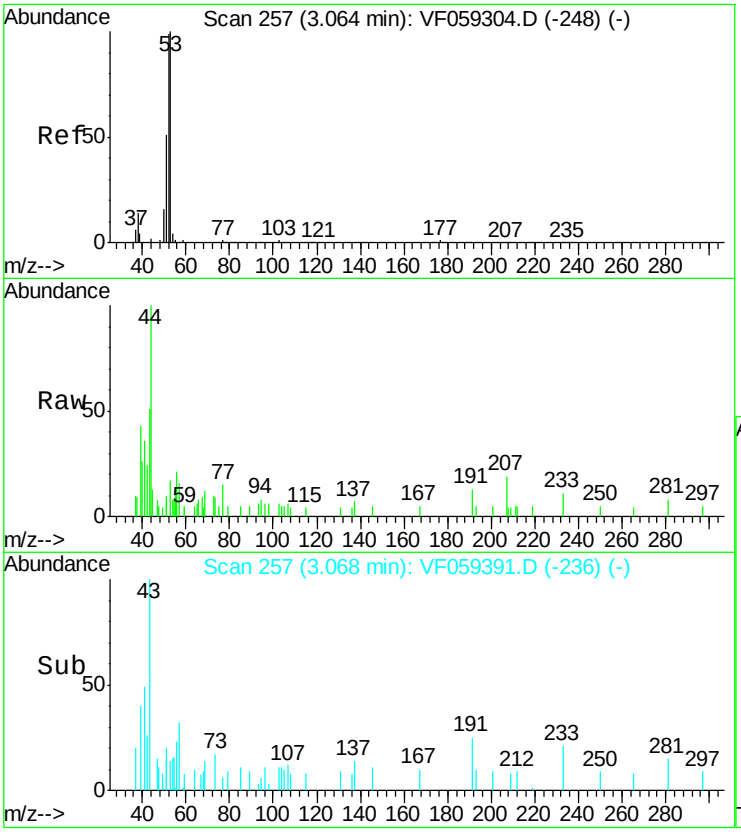




#13
Acrolein
Concen: 7.51 ug/l
RT: 2.07 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 56 Resp: 1071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 115.3 | 62.4 | 93.6# |



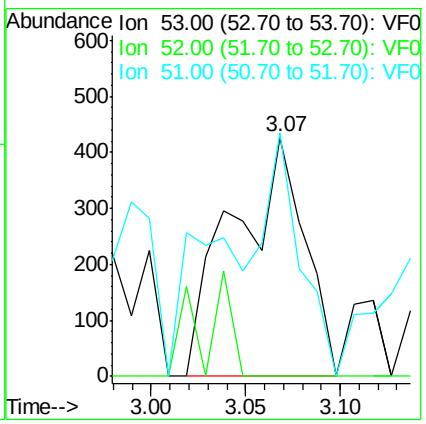


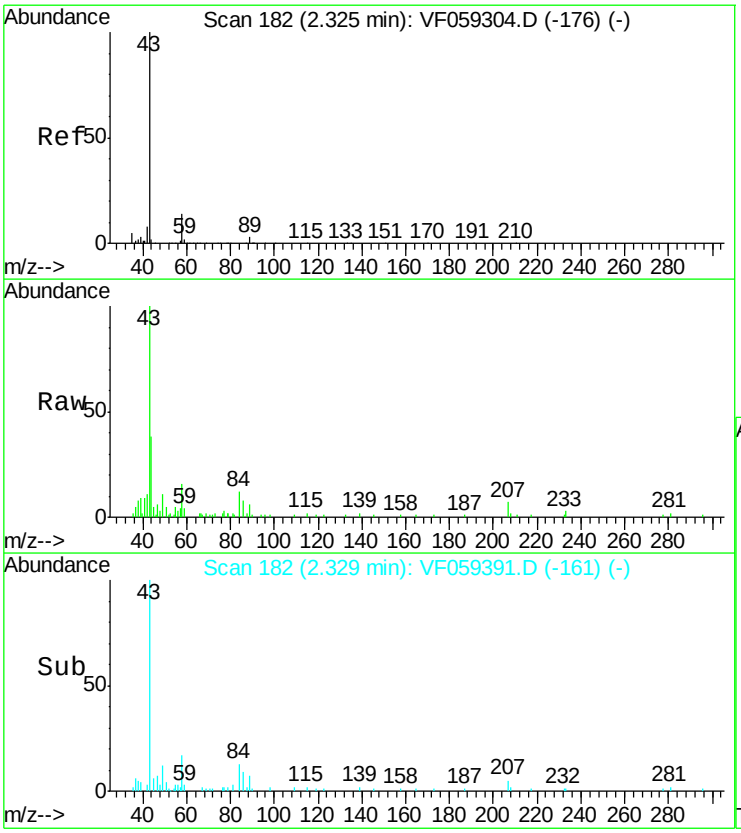

#15
Acrylonitrile
Concen: 7.44 ug/l
RT: 3.07 min Scan# 257
Delta R.T. 0.00 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 53 Resp: 1121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 0.0 | 79.2 | 118.8# |
| 51 | 101.9 | 40.9 | 61.3# |

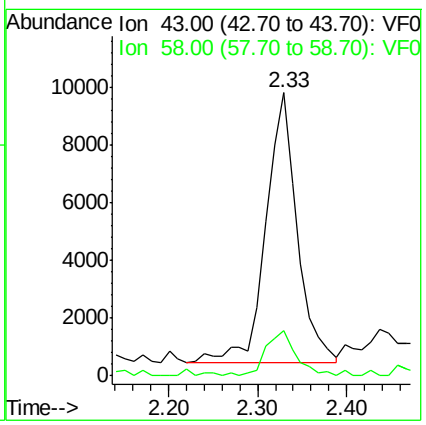


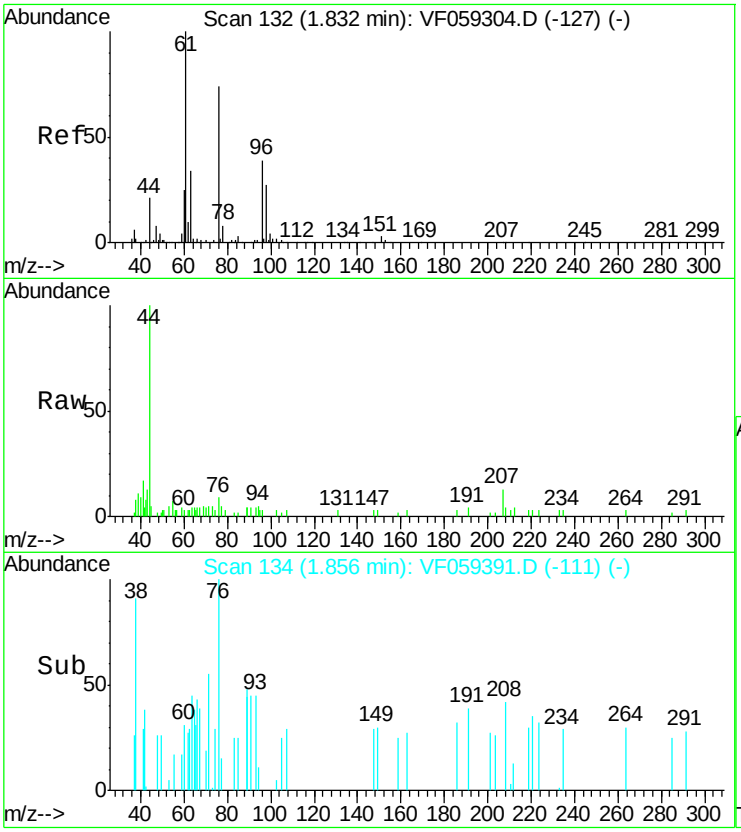




#16
Acetone
Concen: 63.50 ug/l
RT: 2.33 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 43 Resp: 22814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 16.0 | 11.4 | 17.0 |



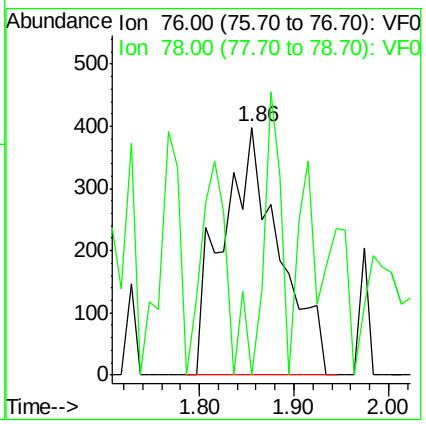


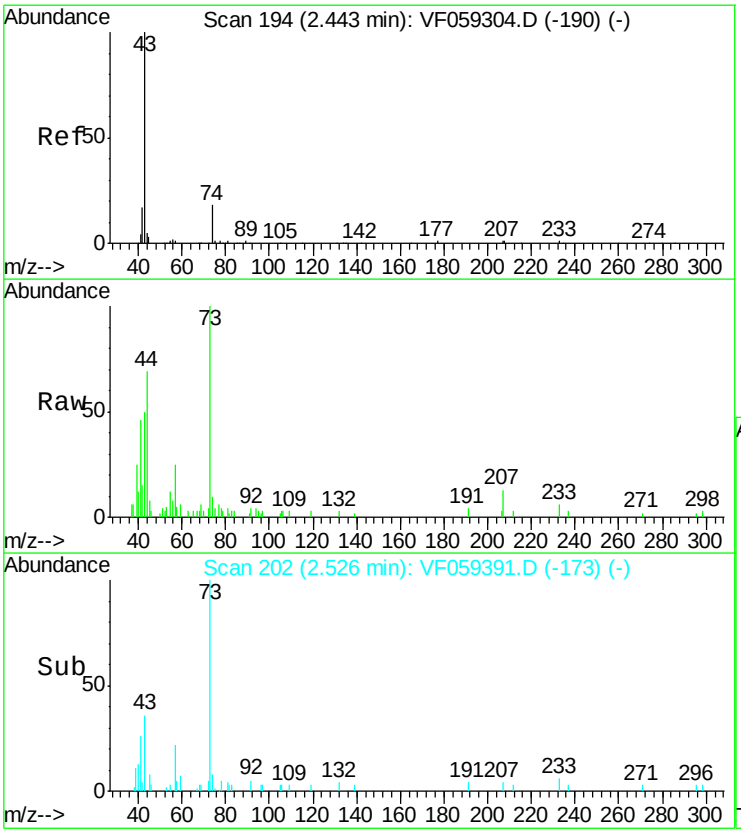

#17
Carbon Disulfide
Concen: 1.21 ug/l
RT: 1.86 min Scan# 134
Delta R.T. 0.02 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :**
MSVOA_F
**ClientSampleId :**
CF-5(6.0)

Tgt Ion: 76 Resp: 1668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 8.9 | 13.3# |

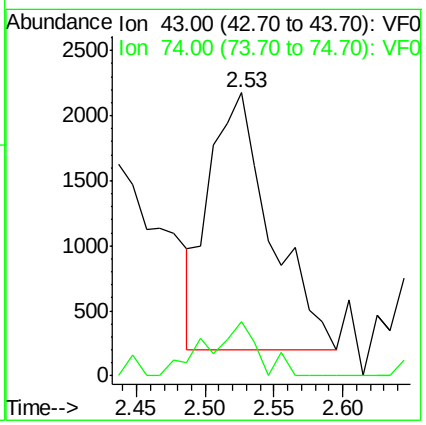


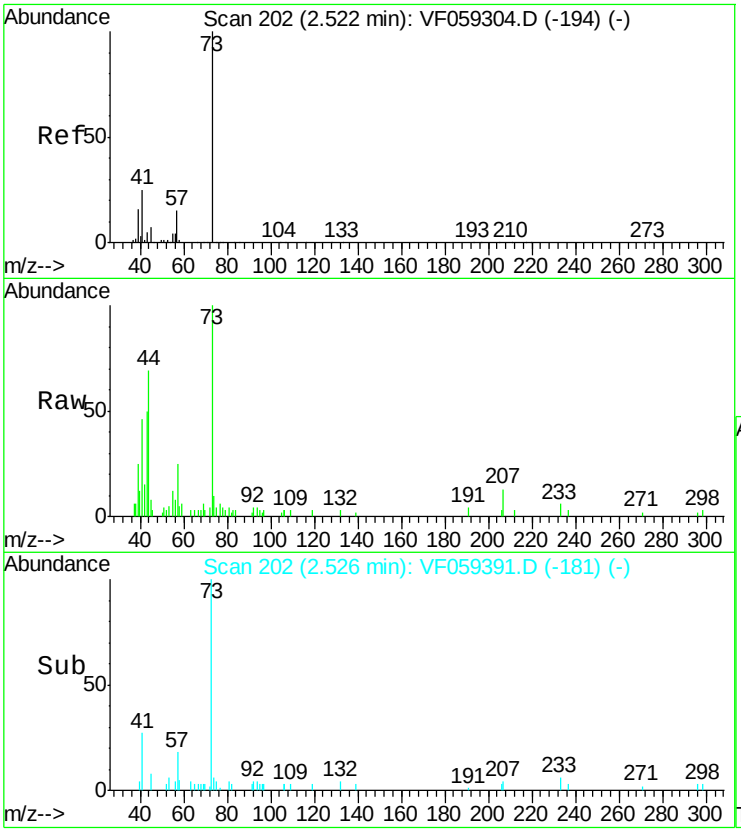




#18
Methyl Acetate
Concen: 9.53 ug/l
RT: 2.53 min Scan# 202
Delta R.T. 0.08 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 43 Resp: 6070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 19.0 | 13.3 | 19.9 |



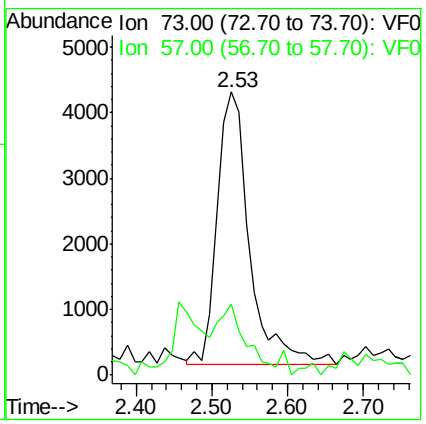


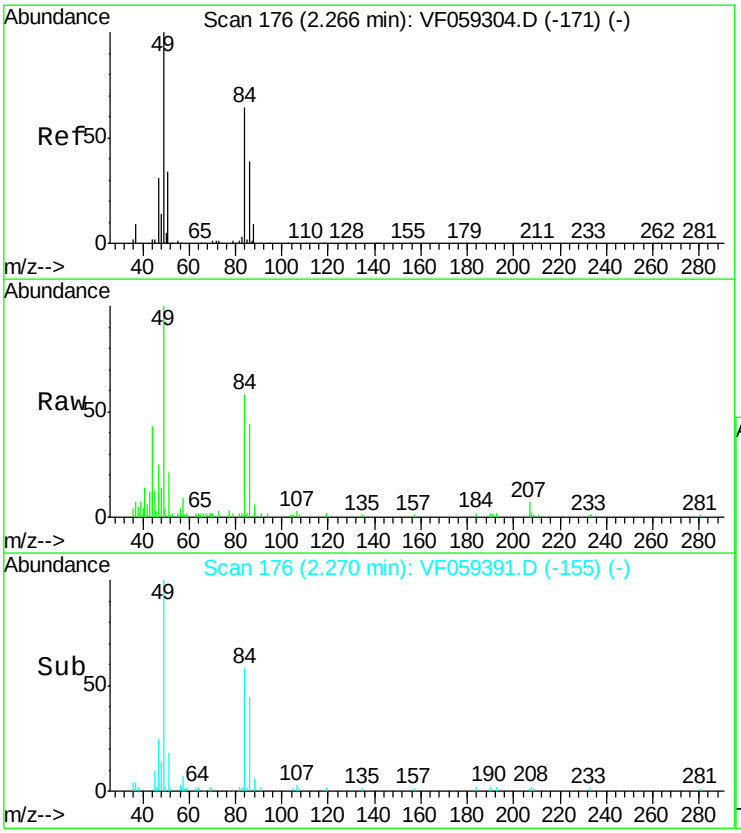

#19
Methyl tert-butyl Ether
Concen: 5.68 ug/l
RT: 2.53 min Scan# 202
Delta R.T. 0.00 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :**
MSVOA_F
**ClientSampleId :**
CF-5(6.0)

Tgt Ion: 73 Resp: 12421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 25.0 | 12.3 | 18.5# |

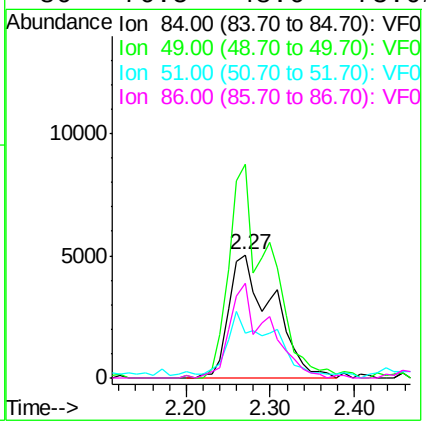


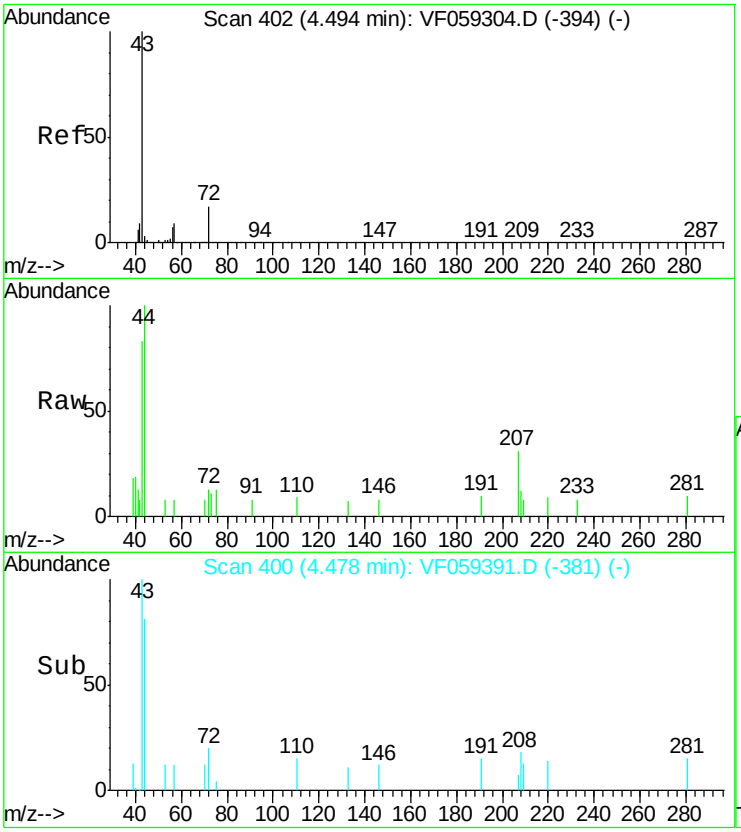




#20
Methylene Chloride
Concen: 21.33 ug/l
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 84 Resp: 18417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 173.0 | 126.5 | 189.7 |
| 51 | 36.3 | 42.9 | 64.3# |
| 86 | 76.5 | 48.6 | 73.0# |



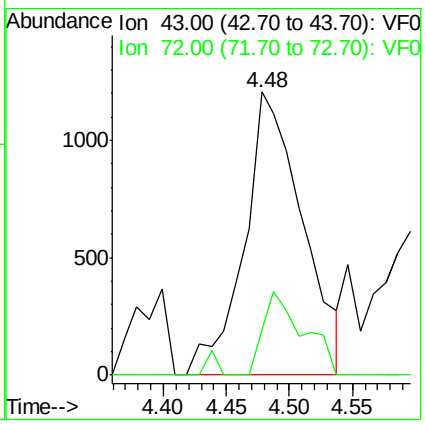


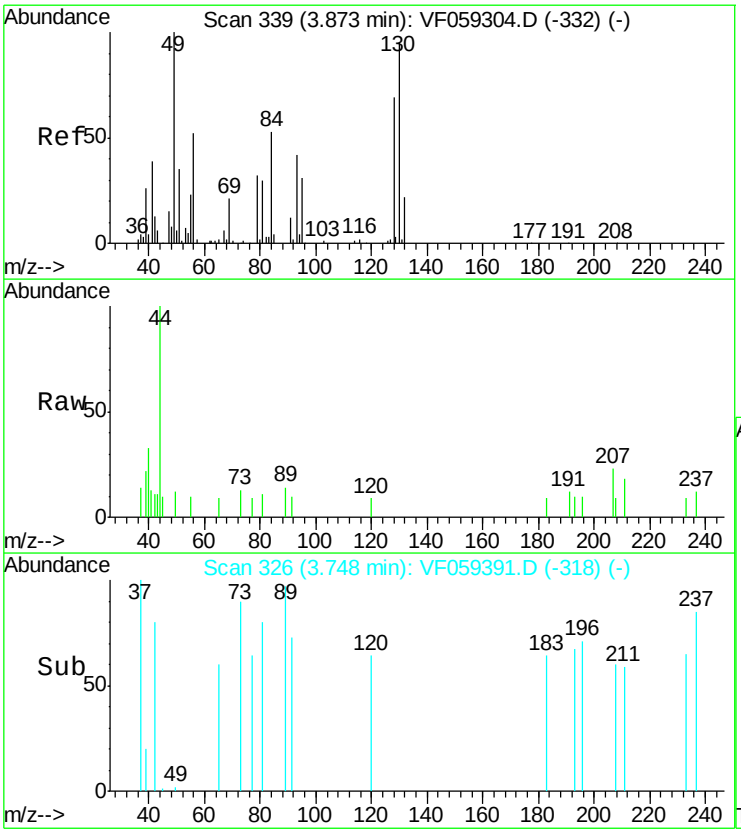

#25
2-Butanone
Concen: 7.34 ug/l
RT: 4.48 min Scan# 400
Delta R.T. -0.02 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 43 Resp: 3890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 16.0 | 14.4 | 21.6 |

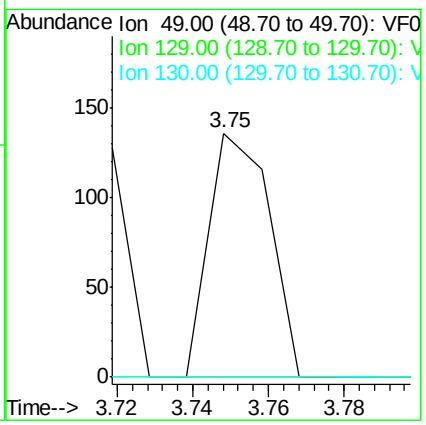


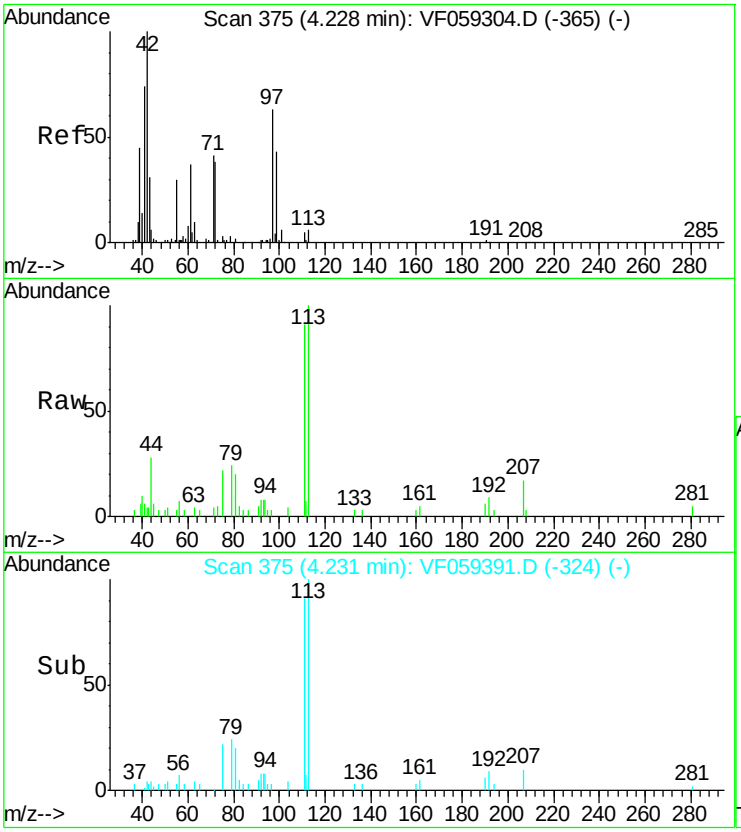




#28
Bromochloromethane
Concen: Below Cal
RT: 3.75 min Scan# 326
Delta R.T. -0.12 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 49 Resp: 149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 6.4 |
| 130 | 0.0 | 75.1 | 112.7# |



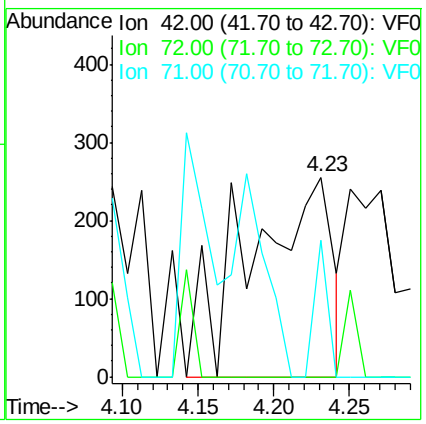


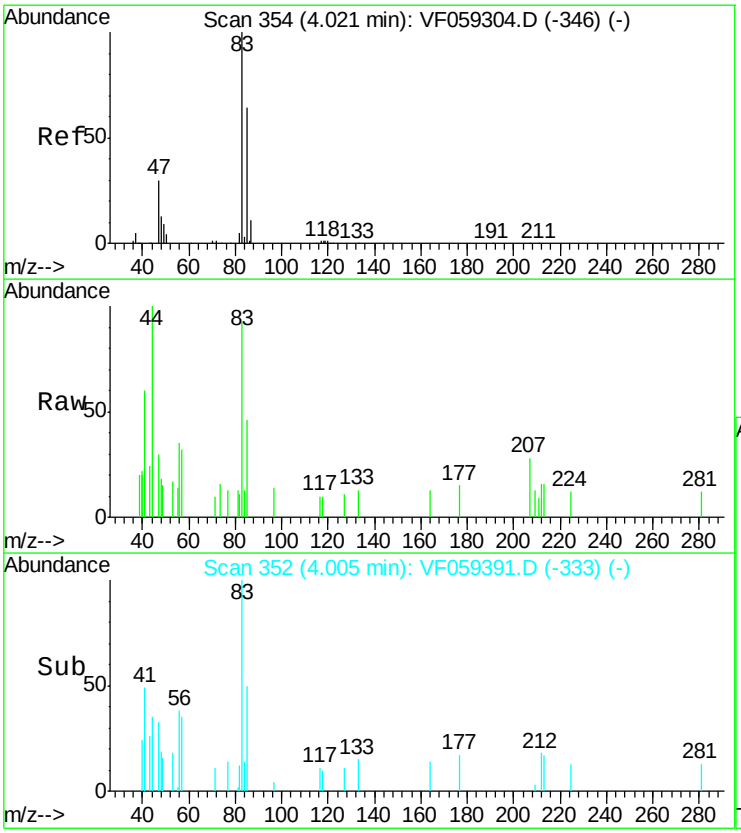

#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.23 min Scan# 375
Delta R.T. 0.00 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 42 Resp: 981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 30.5 | 45.7# |
| 71 | 10.5 | 32.5 | 48.7# |

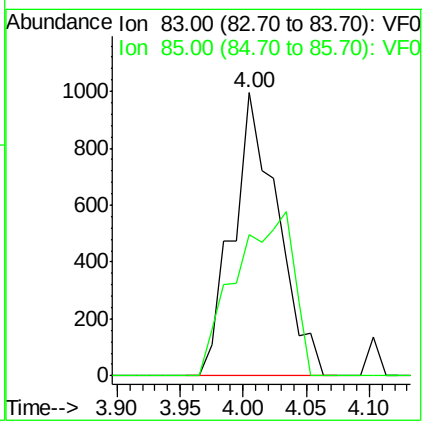


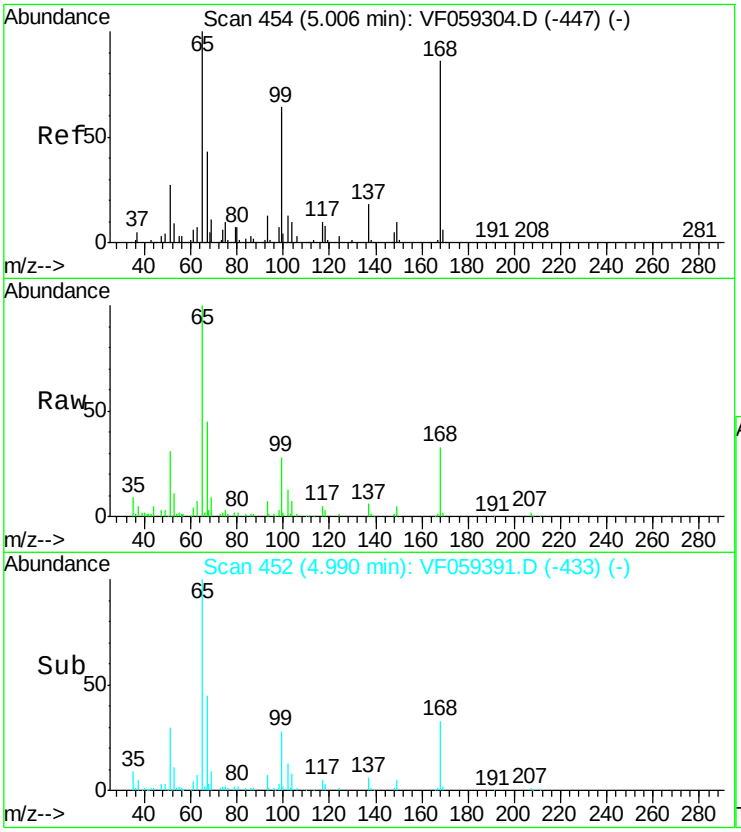




#30
Chloroform
Concen: 1.13 ug/l
RT: 4.00 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 83 Resp: 2471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 49.8 | 51.3 | 76.9# |



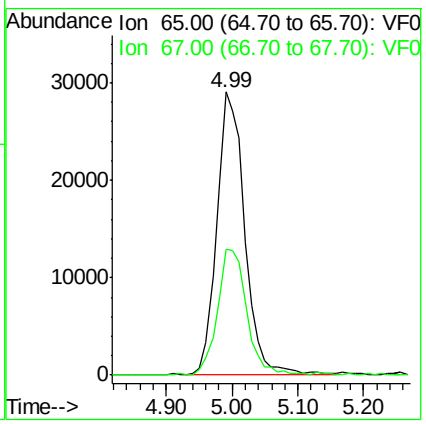


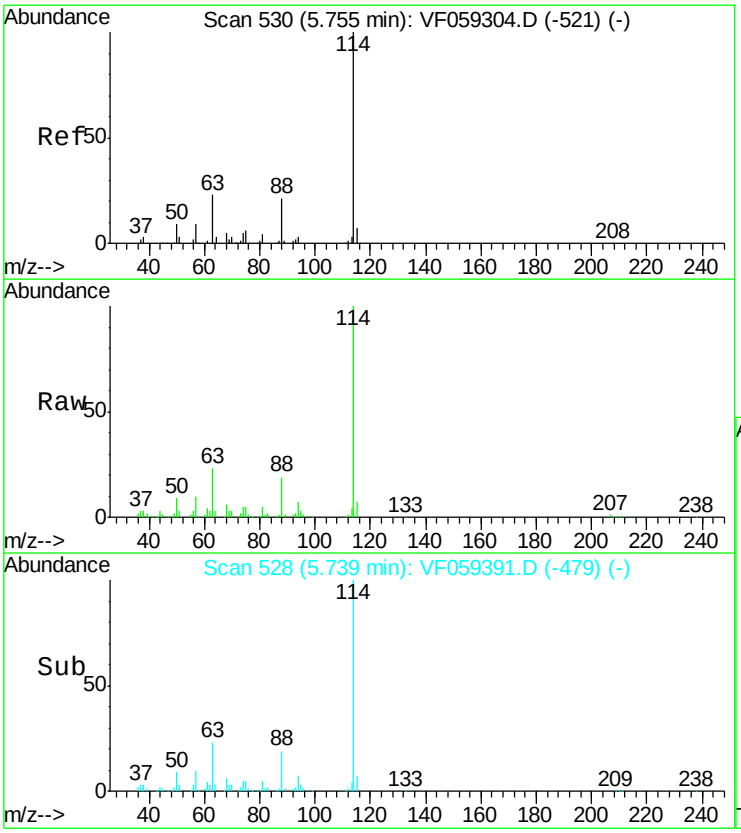

#33
1,2-Dichloroethane-d4
Concen: 66.95 ug/l
RT: 4.99 min Scan# 452
Delta R.T. -0.02 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 65 Resp: 85999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 44.6 | 0.0 | 96.8 |

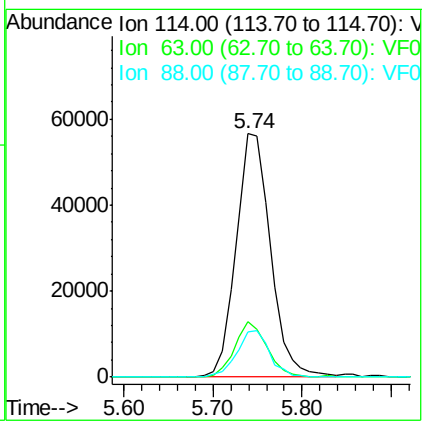


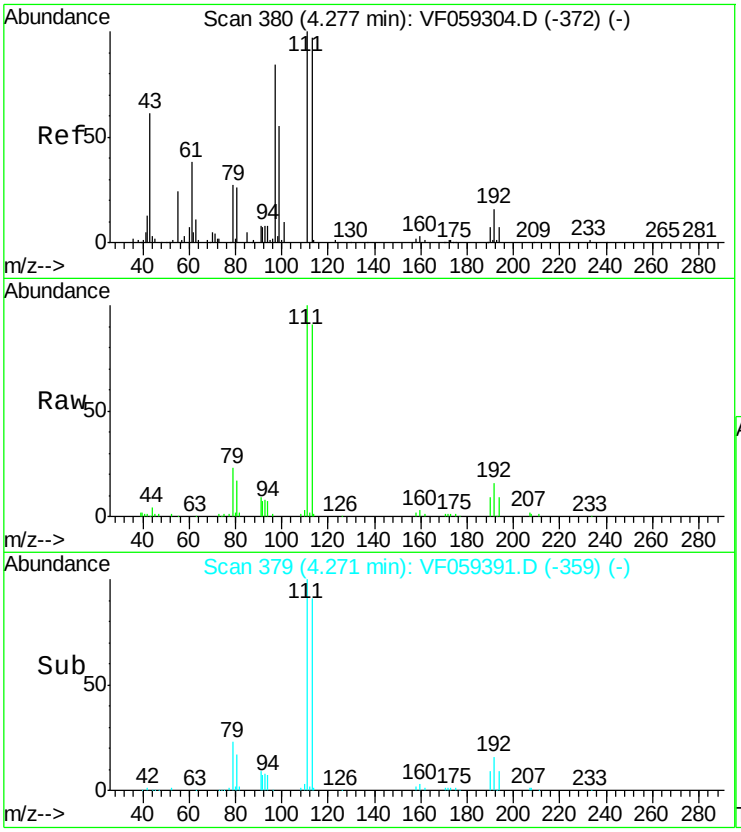




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 5.74 min Scan# 528
Delta R.T. -0.02 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion:114 Resp: 152043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.0 | 0.0 | 45.8 |
| 88 | 18.6 | 0.0 | 41.2 |



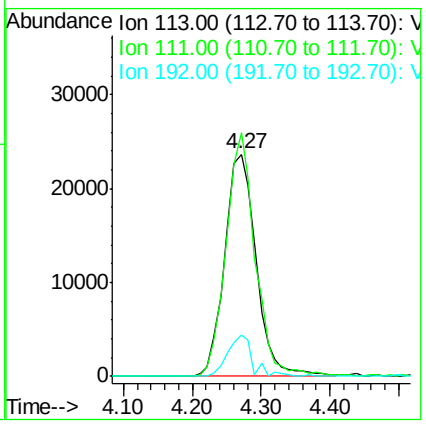


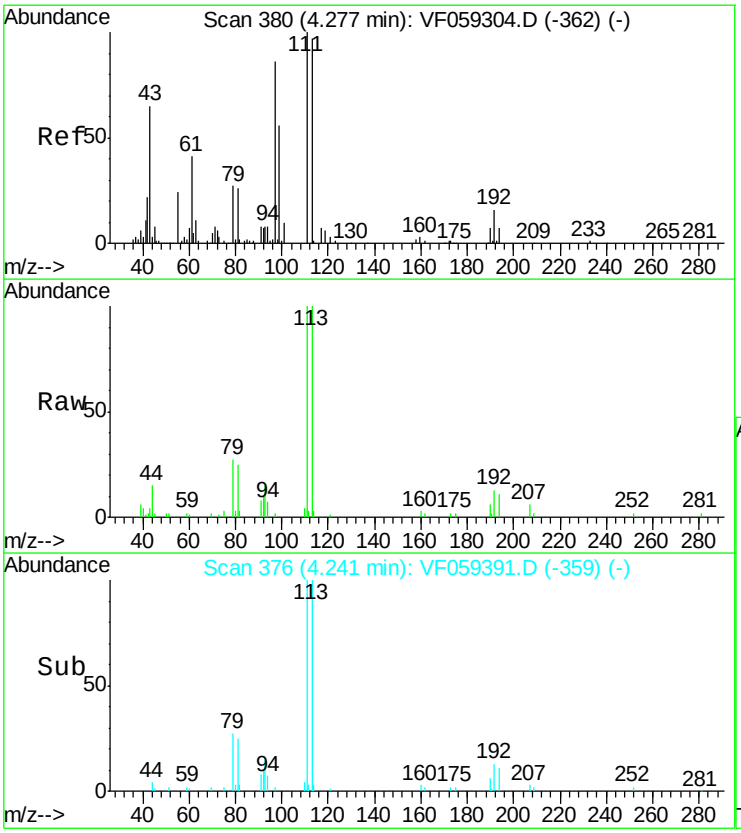

#35
Dibromofluoromethane
Concen: 67.61 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion:113 Resp: 75106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 109.6 | 82.1 | 123.1 |
| 192 | 18.4 | 13.0 | 19.6 |

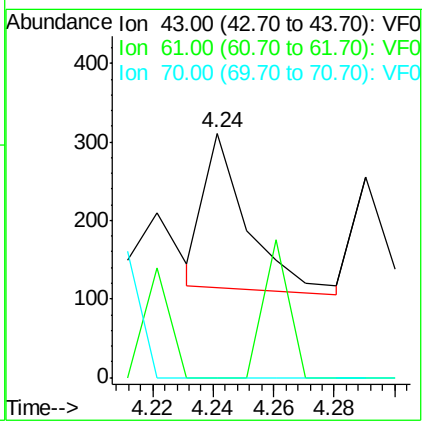


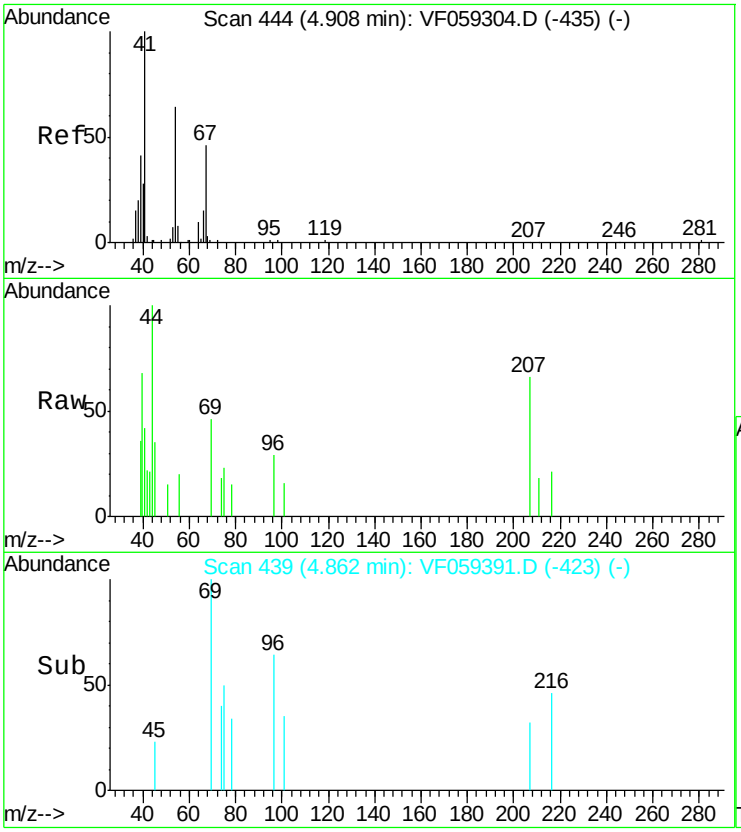




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.24 min Scan# 376
Delta R.T. -0.03 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 43 Resp: 194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 50.1 | 75.1# |
| 70 | 0.0 | 6.2 | 9.4# |



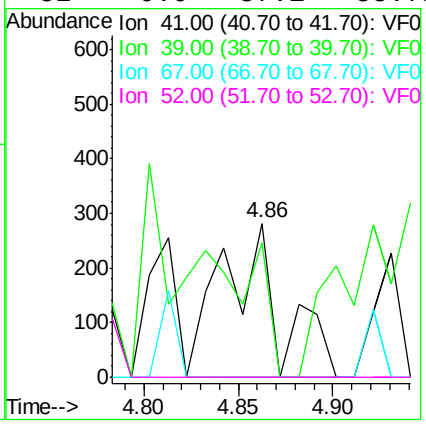


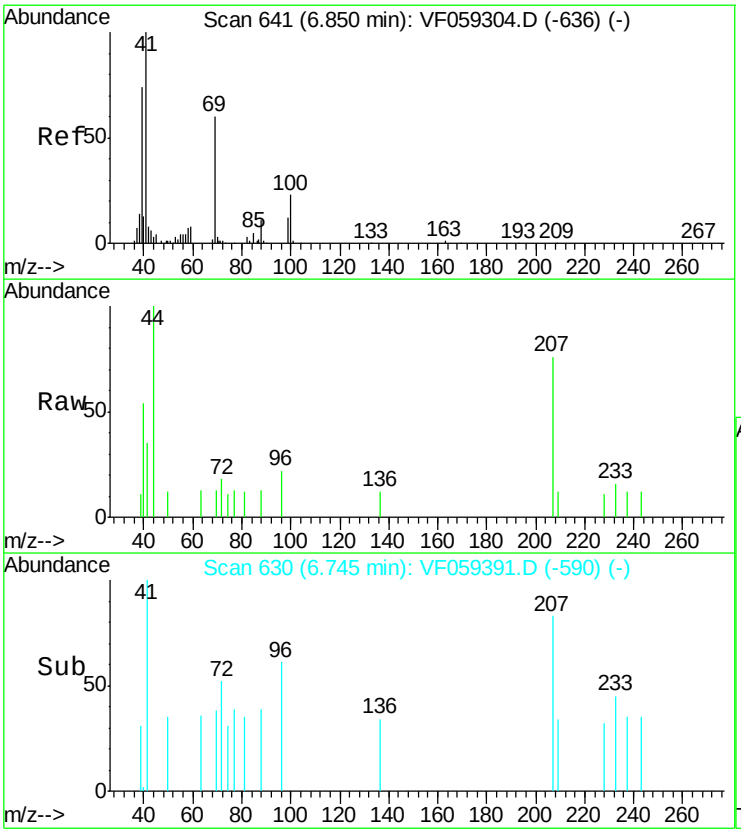

#41
Methacrylonitrile
Concen: 1.36 ug/l
RT: 4.86 min Scan# 439
Delta R.T. -0.05 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 41 Resp: 615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.2 | 50.0 | 75.0# |
| 67 | 0.0 | 37.0 | 55.6# |
| 52 | 0.0 | 37.1 | 55.7# |

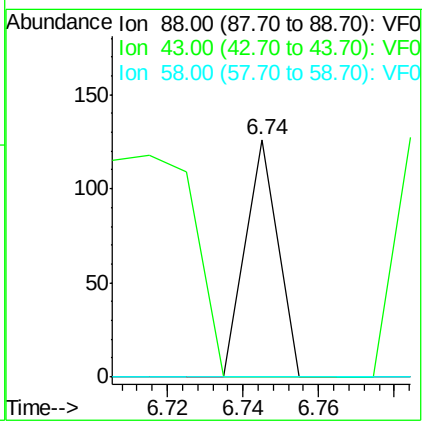


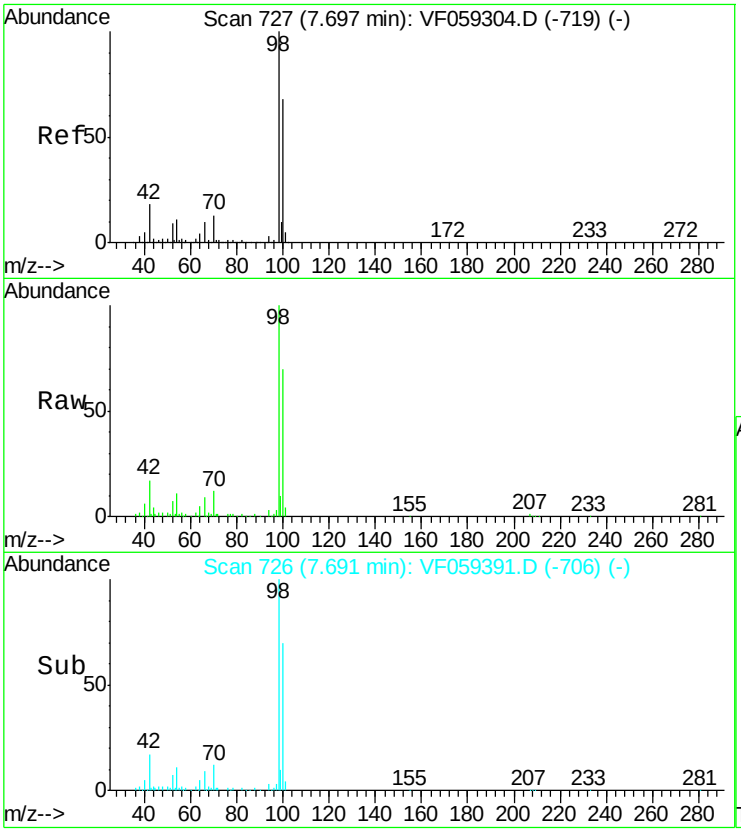




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.74 min Scan# 630
Delta R.T. -0.10 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 88 Resp: 74

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 50.6 | 75.8# |
| 58 | 0.0 | 46.6 | 69.8# |



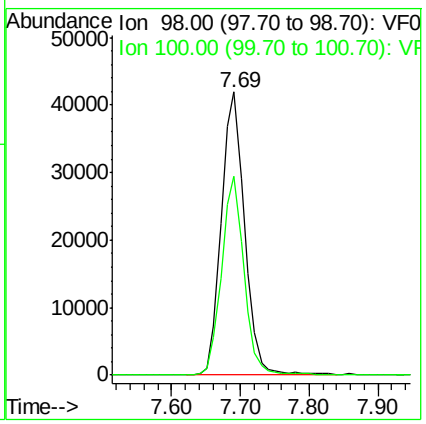


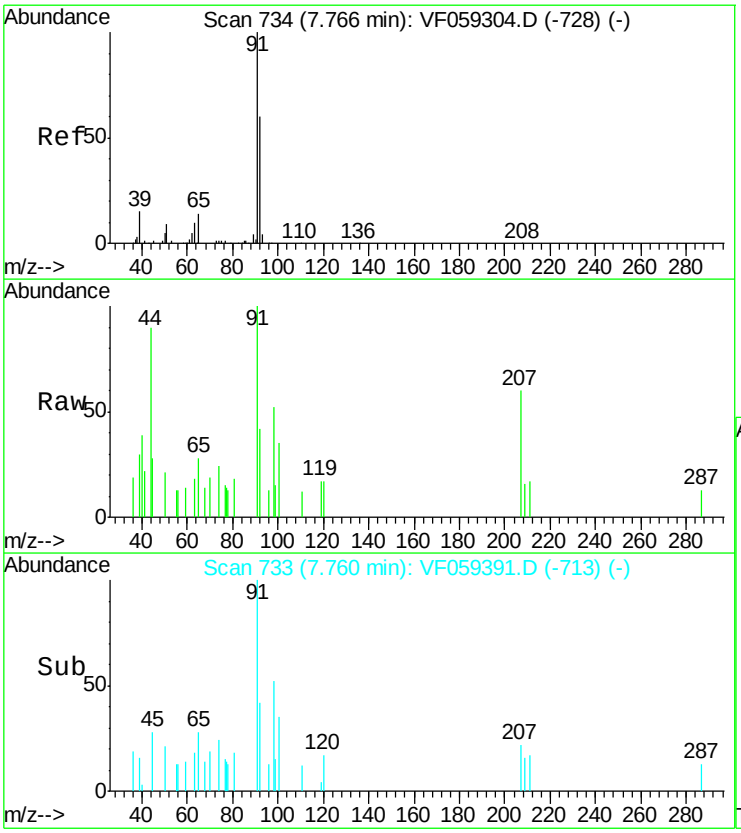

#50
Toluene-d8
Concen: 35.69 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion: 98 Resp: 98169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 70.1 | 54.6 | 82.0 |

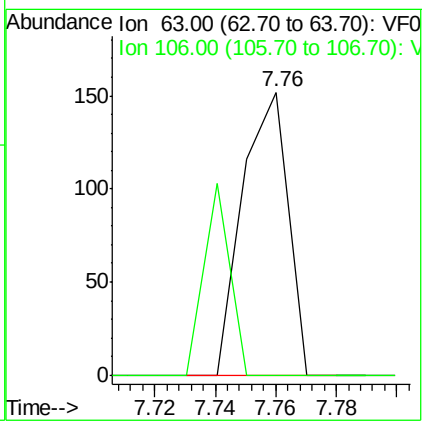


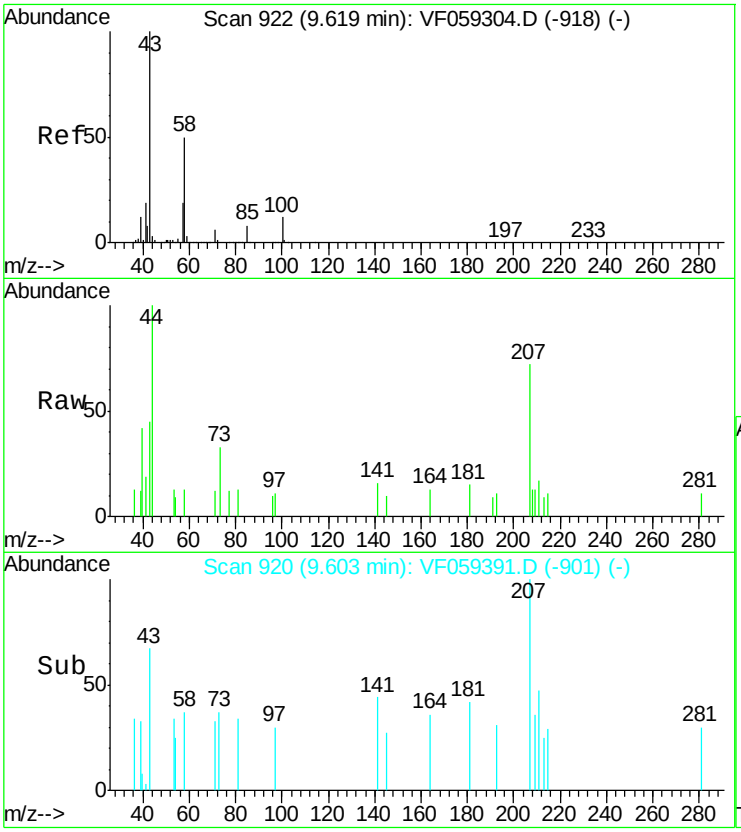




#58
2-Chloroethyl Vinyl ether
Concen: 1.99 ug/l
RT: 7.76 min Scan# 733
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 63 Resp: 158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 0.0 | 0.0 | 0.0 |



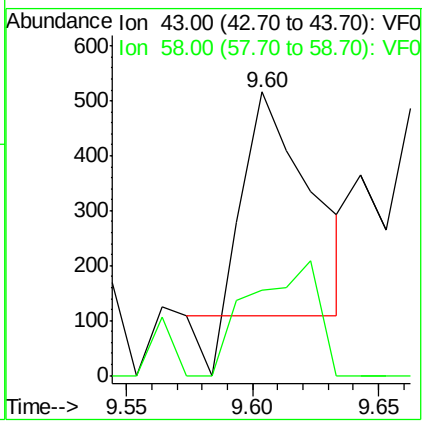


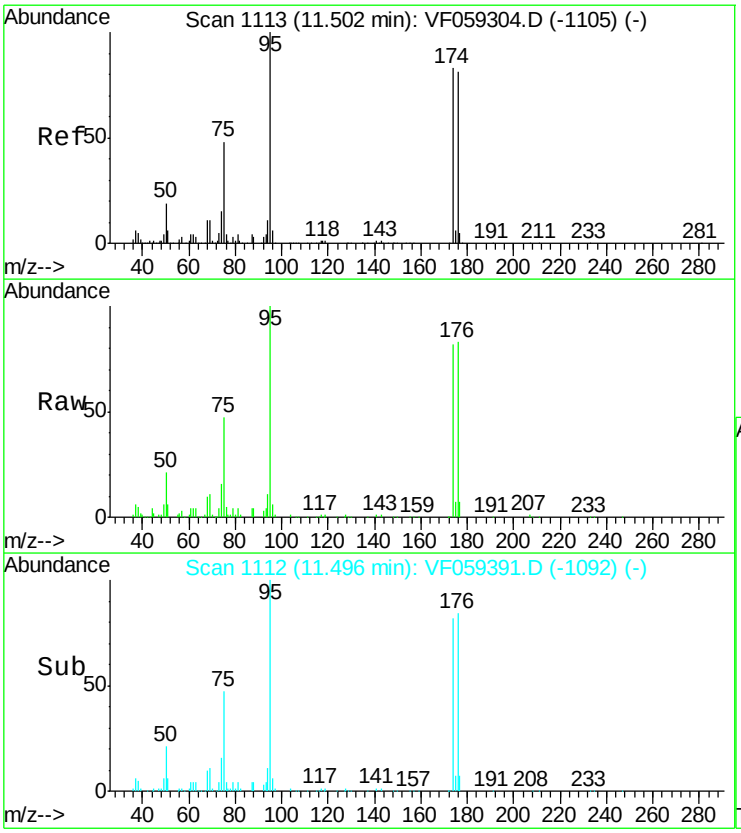

#59
2-Hexanone
Concen: Below Cal
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :**
MSVOA_F
**ClientSampleId :**
CF-5(6.0)

Tgt Ion: 43 Resp: 695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.2 | 23.3 | 69.9 |

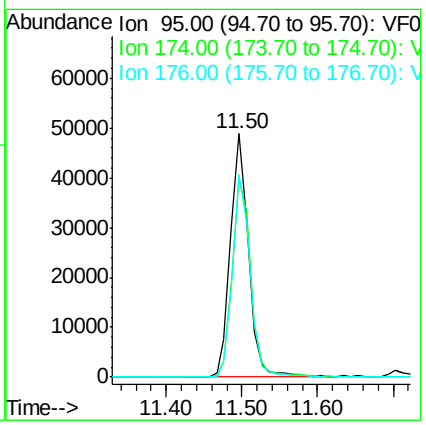


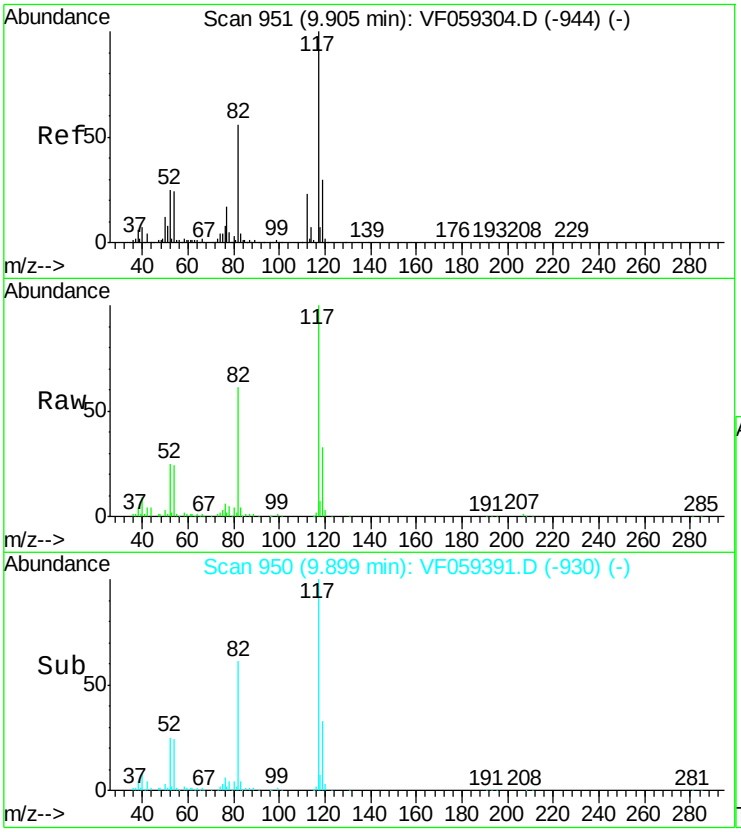




#62
4-Bromofluorobenzene
Concen: 51.63 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion: 95 Resp: 80112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.8 | 0.0 | 165.2 |
| 176 | 83.5 | 0.0 | 161.0 |



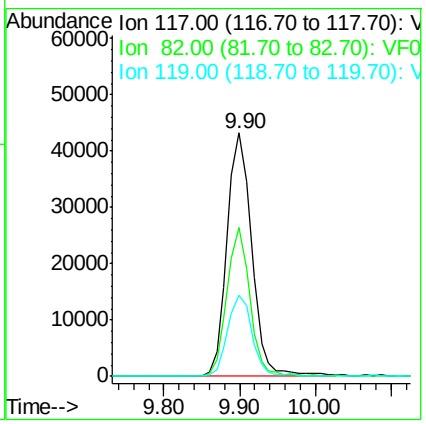


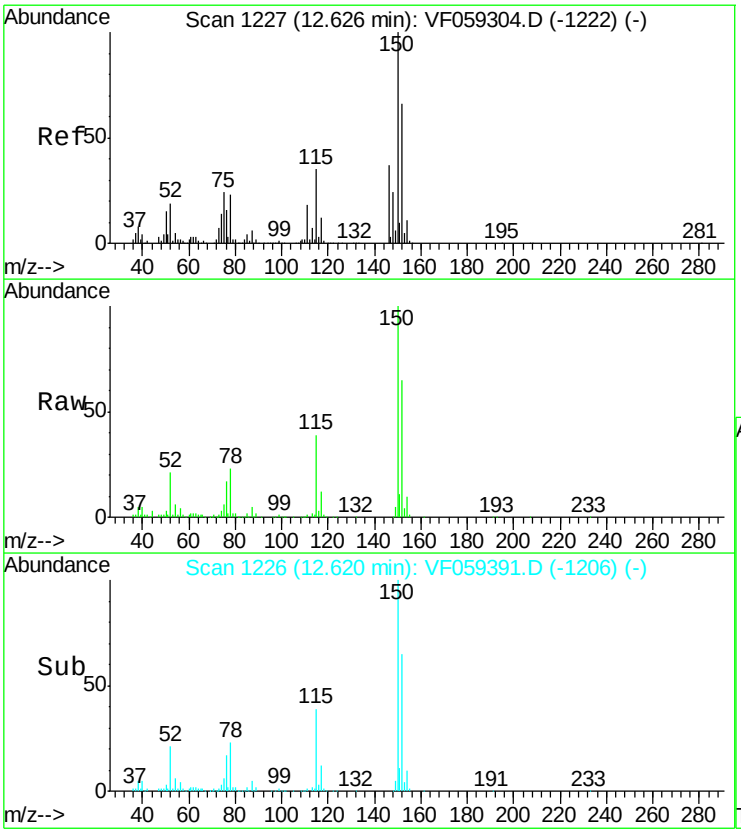

#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :** MSVOA_F
**ClientSampleId :** CF-5(6.0)

Tgt Ion:117 Resp: 98081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.0 | 44.6 | 66.8 |
| 119 | 33.4 | 24.1 | 36.1 |

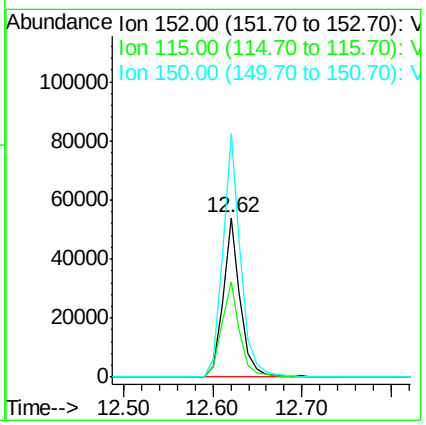


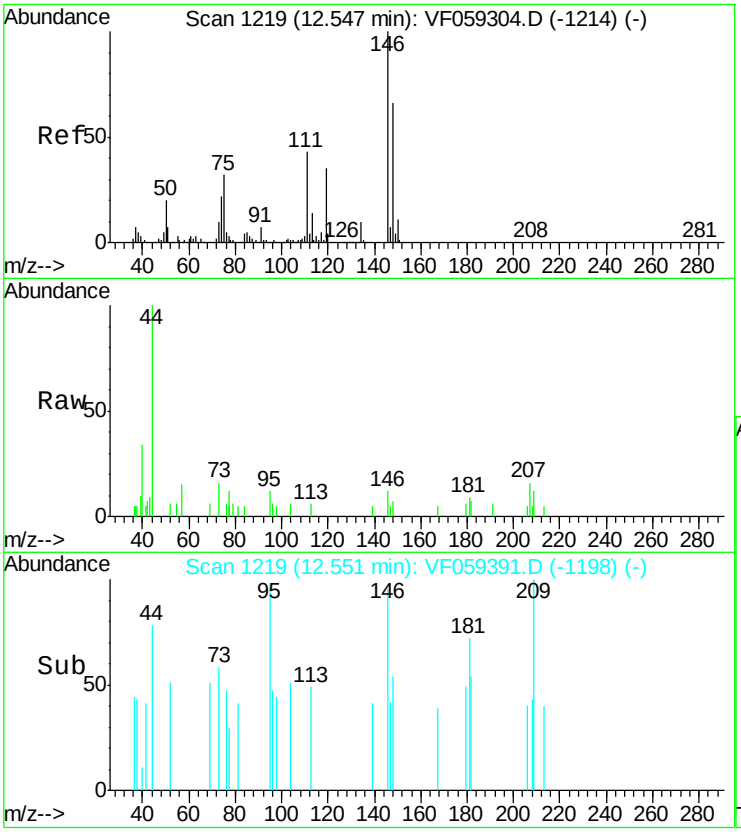




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

Tgt Ion:152 Resp: 73529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.3 | 27.1 | 81.3 |
| 150 | 152.7 | 0.0 | 305.2 |






#87
1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.55 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VF059391.D
Acq: 2 Jul 2018 17:09

**Instrument :**
MSVOA_F
**ClientSampleId :**
CF-5(6.0)

Tgt Ion:146 Resp: 275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 0.0 | 21.4 | 64.2# |
| 148 | 56.7 | 32.8 | 98.4 |