Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070318\
Data File : VF059411.D
Acq On : 3 Jul 2018 14:50
Operator : VA/AP
Sample : J3774-07RE
Misc : 5.62g/5mL/MSVOA-F/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** SB-6(4-6)RE

Quant Time: Jul 04 00:11:11 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 | 5.00 | 168 | 26707 | 50.00 | ug/l | -0.02 |
| 34) 1,4-Difluorobenzene | 5.72 | 114 | 34821 | 50.00 | ug/l | -0.03 |
| 63) Chlorobenzene-d5 | 9.88 | 117 | 27473 | 50.00 | ug/l | -0.02 |
| 72) 1,4-Dichlorobenzene-d4 | 12.60 | 152 | 10429 | 50.00 | ug/l | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.97 | 65 | 7898 | 22.89 | ug/l | -0.03 |
| Spiked Amount 50.000 | | | Recovery = 45.78% | | | |
| 35) Dibromofluoromethane | 4.25 | 113 | 9824 | 38.61 | ug/l | -0.03 |
| Spiked Amount 50.000 | | | Recovery = 77.22% | | | |
| 50) Toluene-d8 | 7.68 | 98 | 29332 | 46.56 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 93.12% | | | |
| 62) 4-Bromofluorobenzene | 11.48 | 95 | 10363 | 29.16 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 58.32% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 0.99 | 85 | 468 | 1.918 | ug/l # | 40 |
| 3) Chloromethane | 1.09 | 50 | 504 | 3.075 | ug/l # | 41 |
| 5) Bromomethane | 1.32 | 94 | 561 | Below Cal | # | 4 |
| 8) Diethyl Ether | 1.62 | 74 | 155 | 1.895 | ug/l | 48 |
| 11) Tert butyl alcohol | 2.62 | 59 | 123 | 5.355 | ug/l # | 66 |
| 13) Acrolein | 2.10 | 56 | 77 | Below Cal | # | 10 |
| 14) Allyl chloride | 2.17 | 41 | 444 | 1.502 | ug/l # | 68 |
| 15) Acrylonitrile | 2.92 | 53 | 64 | 1.582 | ug/l # | 9 |
| 16) Acetone | 2.31 | 43 | 1268 | 4.707 | ug/l # | 65 |
| 18) Methyl Acetate | 2.46 | 43 | 502 | 2.109 | ug/l # | 61 |
| 20) Methylene Chloride | 2.26 | 84 | 1612 | 1.104 | ug/l # | 78 |
| 25) 2-Butanone | 4.49 | 43 | 187 | Below Cal | # | 59 |
| 28) Bromochloromethane | 3.84 | 49 | 86 | Below Cal | # | 6 |
| 29) Tetrahydrofuran | 4.24 | 42 | 183 | Below Cal | # | 36 |
| 37) Ethyl Acetate | 4.26 | 43 | 226 | Below Cal | # | 26 |
| 48) Methyl methacrylate | 6.82 | 41 | 227 | 1.337 | ug/l # | 50 |
| 49) 1,4-Dioxane | 6.98 | 88 | 82 | 50.085 | ug/l # | 20 |
| 51) 4-Methyl-2-Pentanone | 8.41 | 43 | 390 | 2.078 | ug/l # | 39 |
| 58) 2-Chloroethyl Vinyl ether | 7.69 | 63 | 61 | 3.351 | ug/l | 100 |
| 59) 2-Hexanone | 9.61 | 43 | 936 | Below Cal | # | 30 |
| 68) m/p-Xylenes | 10.25 | 106 | 323 | 1.051 | ug/l # | 2 |
| 74) N-amyl acetate | 11.43 | 43 | 353 | 1.601 | ug/l # | 34 |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75 | 83 | 1.205 | ug/l # | 65 |
| 92) 1,2-Dibromo-3-Chloropropan | 13.74 | 75 | 81 | 2.381 | ug/l # | 23 |

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

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ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Quant Time: Jul 04 00:11:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
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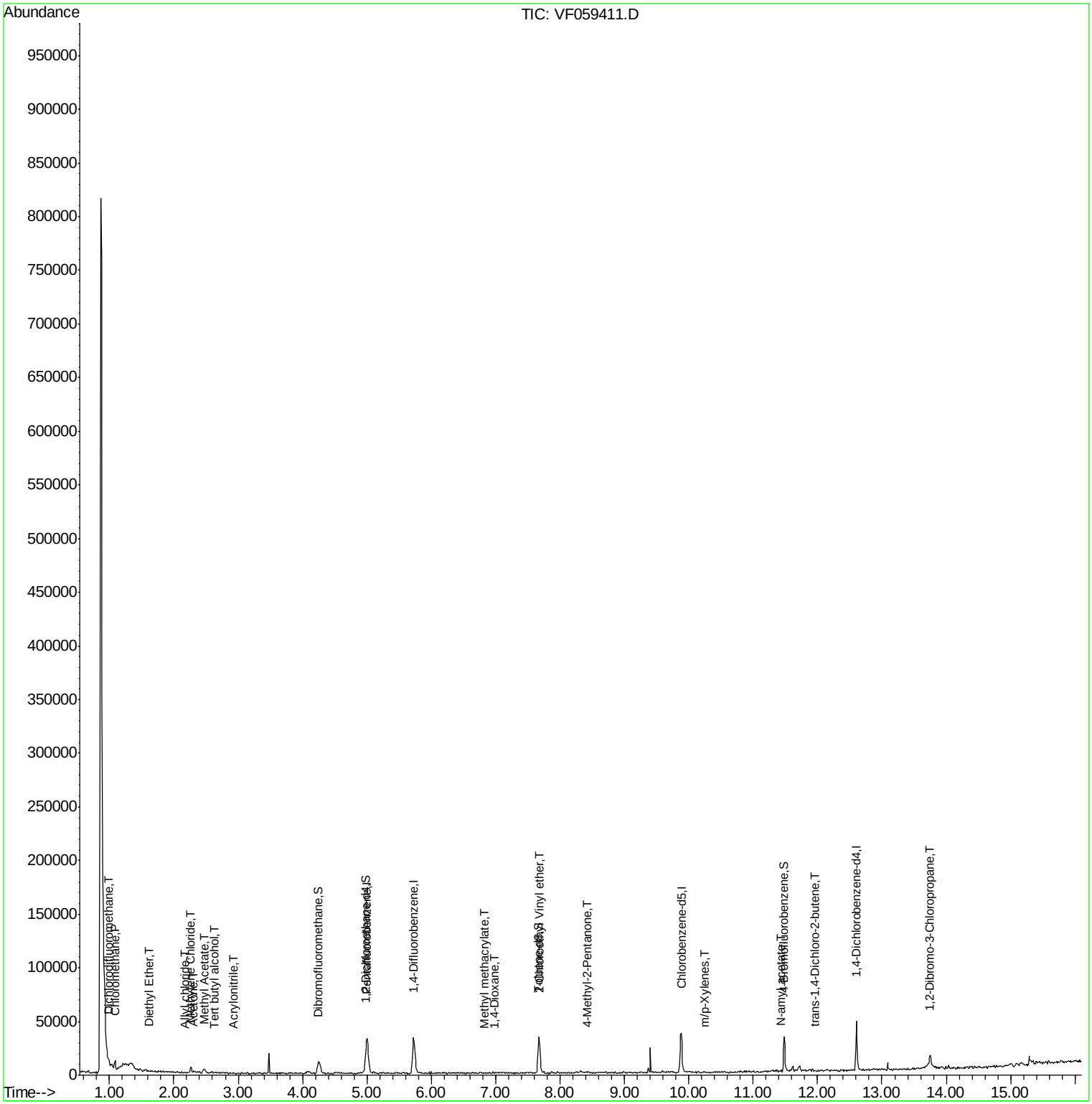
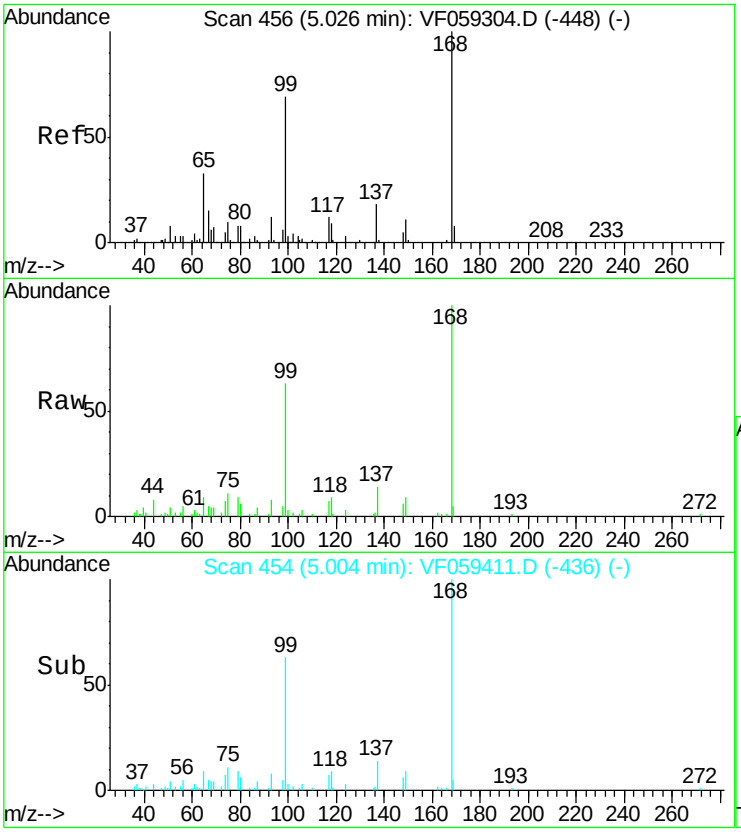


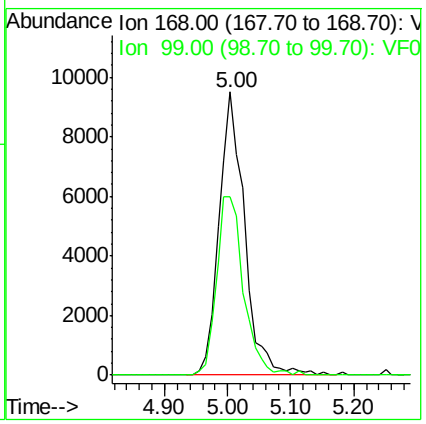


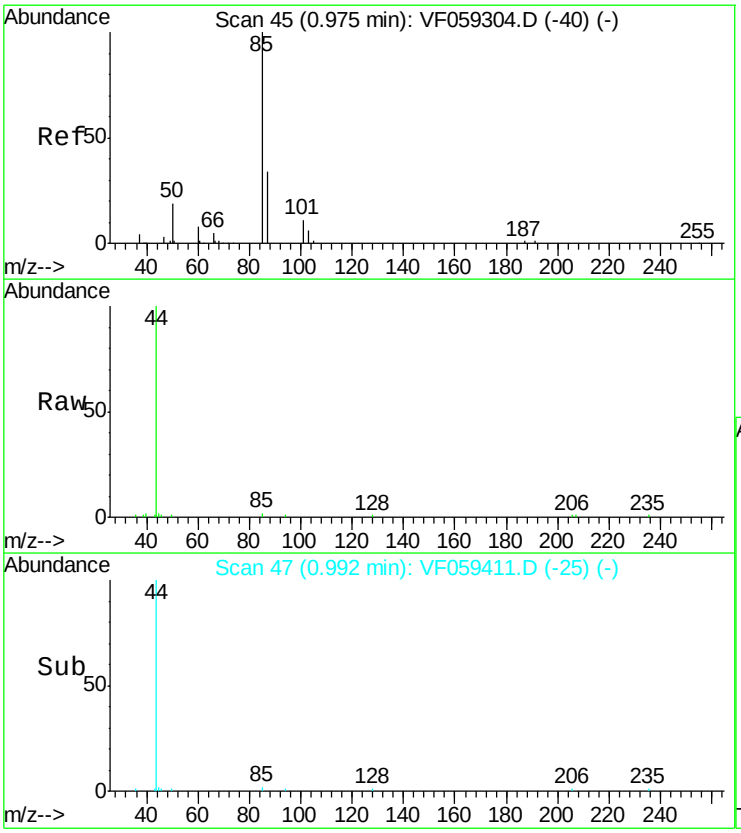

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.00 min Scan# 454
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion:168 Resp: 26707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.9 | 54.9 | 82.3 |

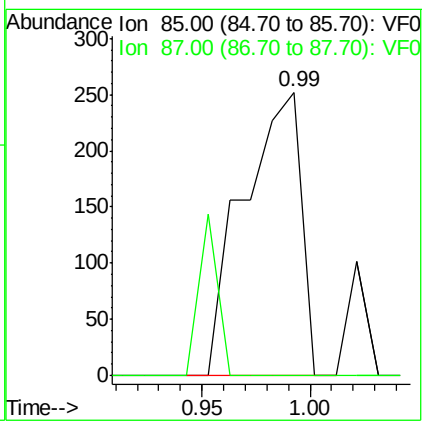


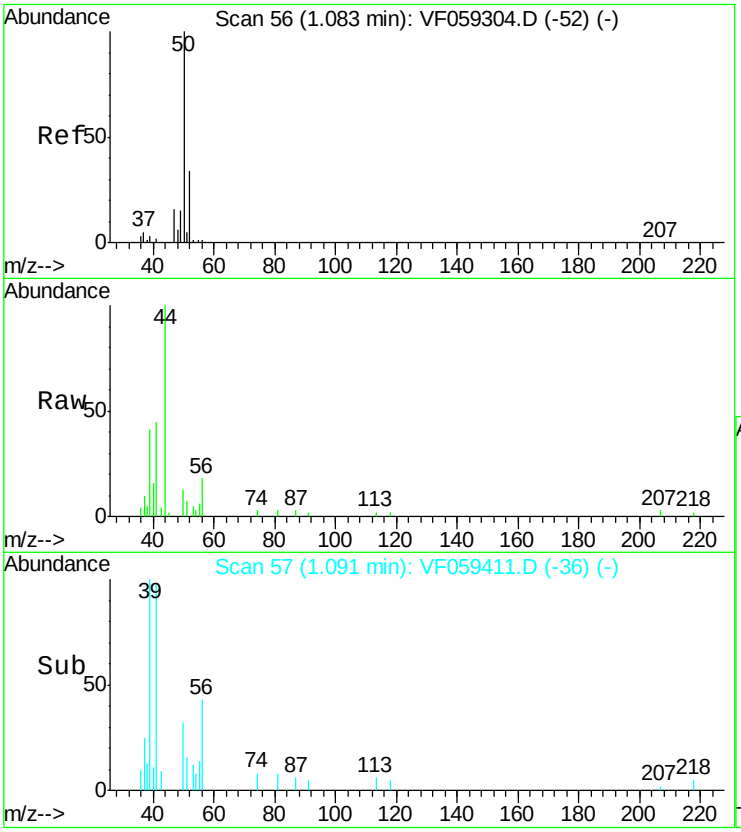




#2
Dichlorodifluoromethane
Concen: 1.918 ug/l
RT: 0.99 min Scan# 47
Delta R.T. 0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 85 Resp: 468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 0.0 | 17.1 | 51.3# |



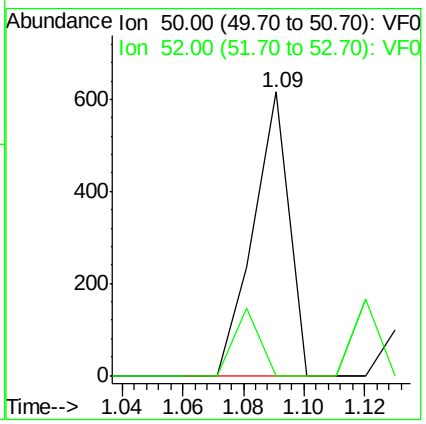


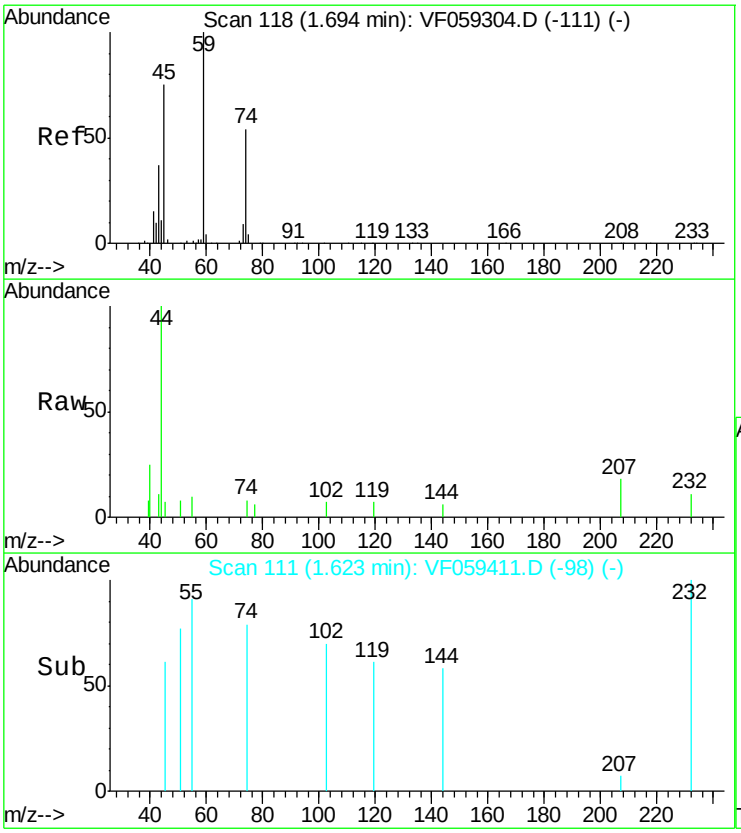

#3
Chloromethane
Concen: 3.075 ug/l
RT: 1.09 min Scan# 57
Delta R.T. 0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :** MSVOA_F
**ClientSampleId :** SB-6(4-6)RE

Tgt Ion: 50 Resp: 504

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

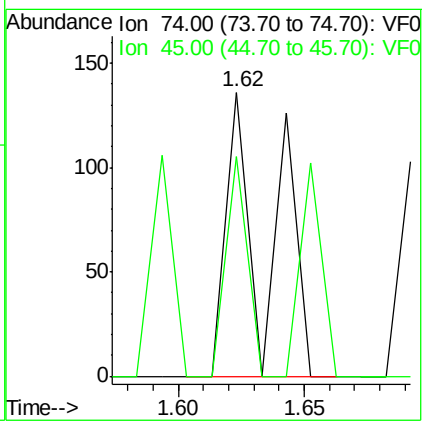


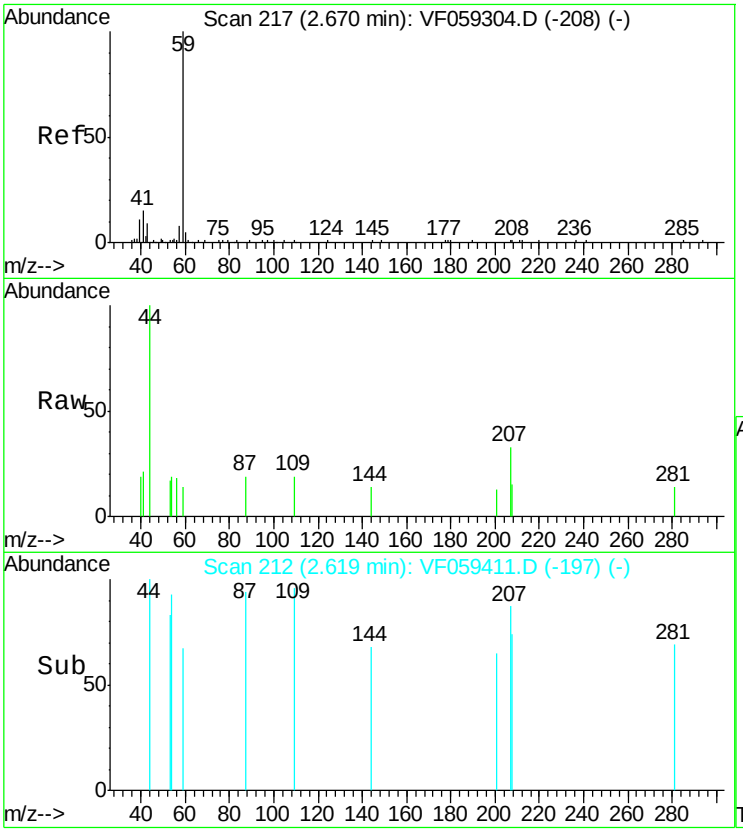




#8
Diethyl Ether
Concen: 1.895 ug/l
RT: 1.62 min Scan# 111
Delta R.T. -0.07 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 74 Resp: 155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 77.2 | 70.0 | 210.0 |



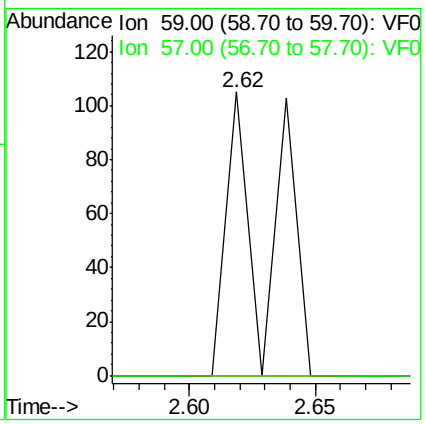


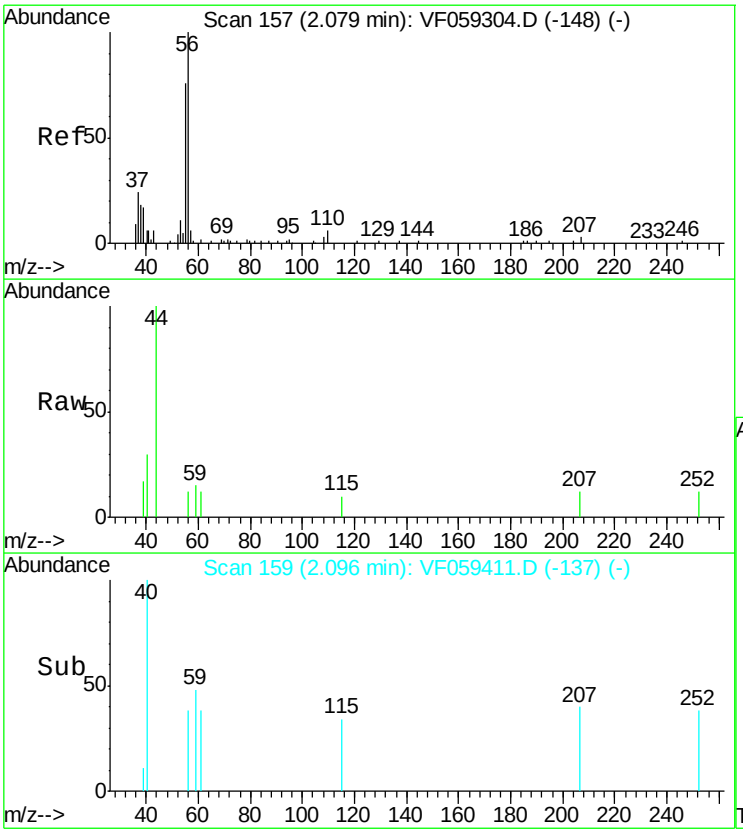

#11
Tert butyl alcohol
Concen: 5.355 ug/l
RT: 2.62 min Scan# 212
Delta R.T. -0.05 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 59 Resp: 123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 11.0 | 16.4# |

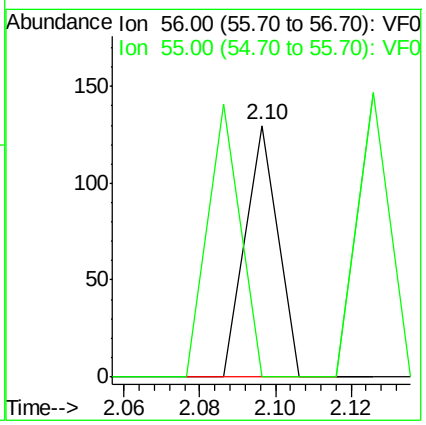


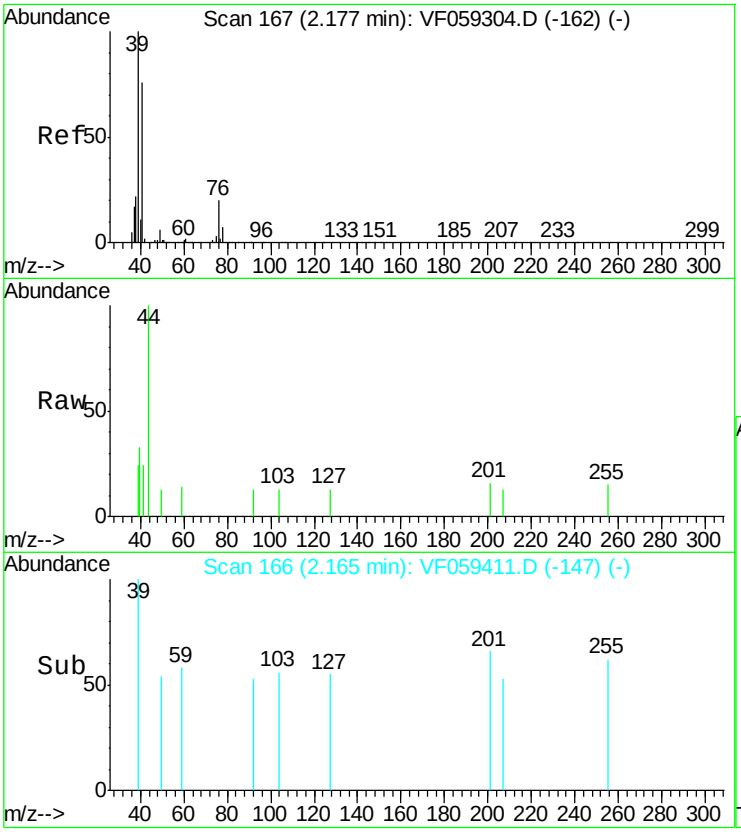




#13
Acrolein
Concen: Below Cal
RT: 2.10 min Scan# 159
Delta R.T. 0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 56 Resp: 77

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 0.0 | 62.4 | 93.6# |



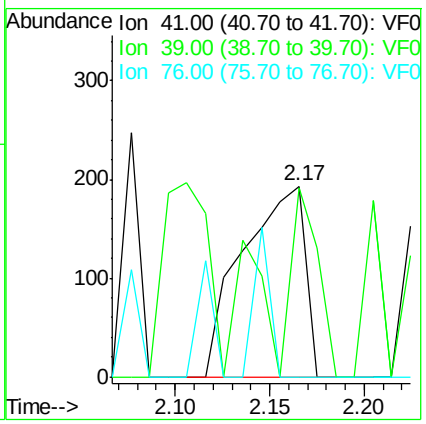


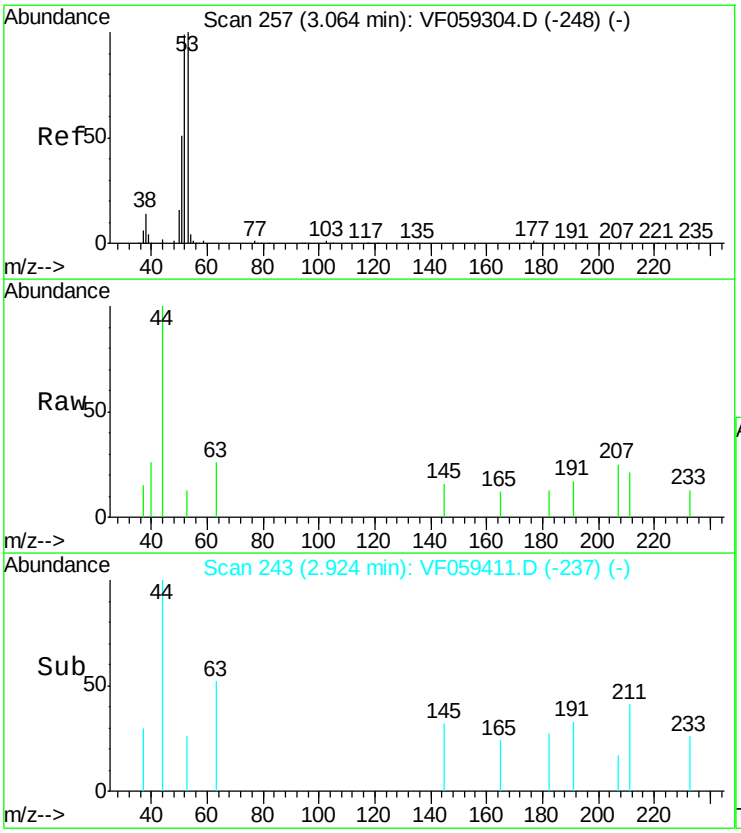

#14
Allyl chloride
Concen: 1.502 ug/l
RT: 2.17 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :** MSVOA_F
**ClientSampleId :** SB-6(4-6)RE

Tgt Ion: 41 Resp: 444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 99.5 | 105.6 | 158.4# |
| 76 | 0.0 | 21.6 | 32.4# |

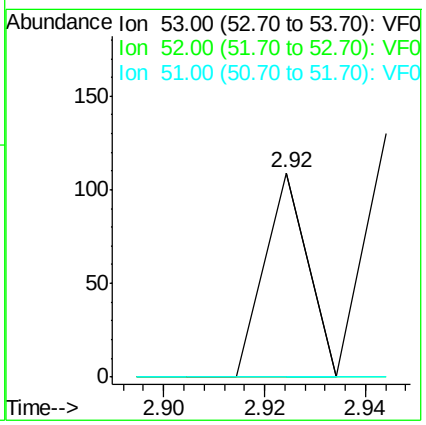


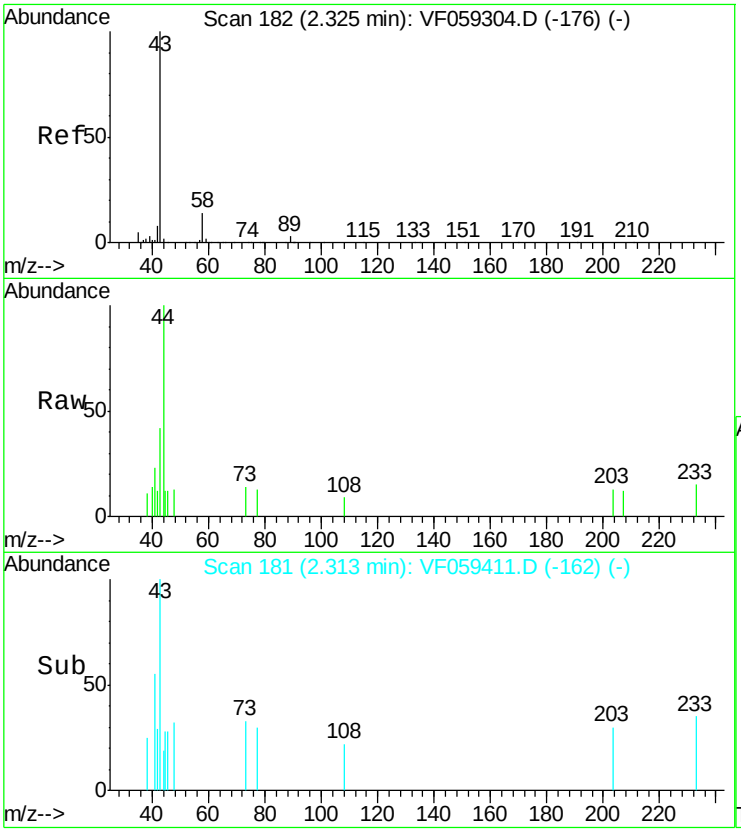




#15
Acrylonitrile
Concen: 1.582 ug/l
RT: 2.92 min Scan# 243
Delta R.T. -0.14 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 53 Resp: 64

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



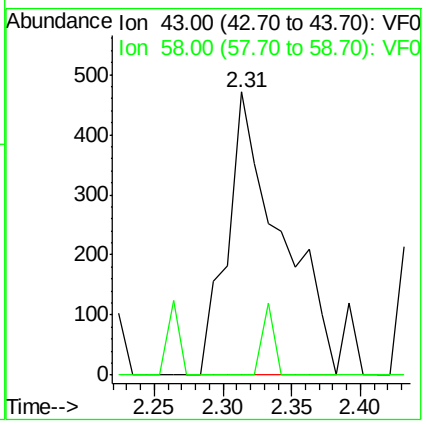


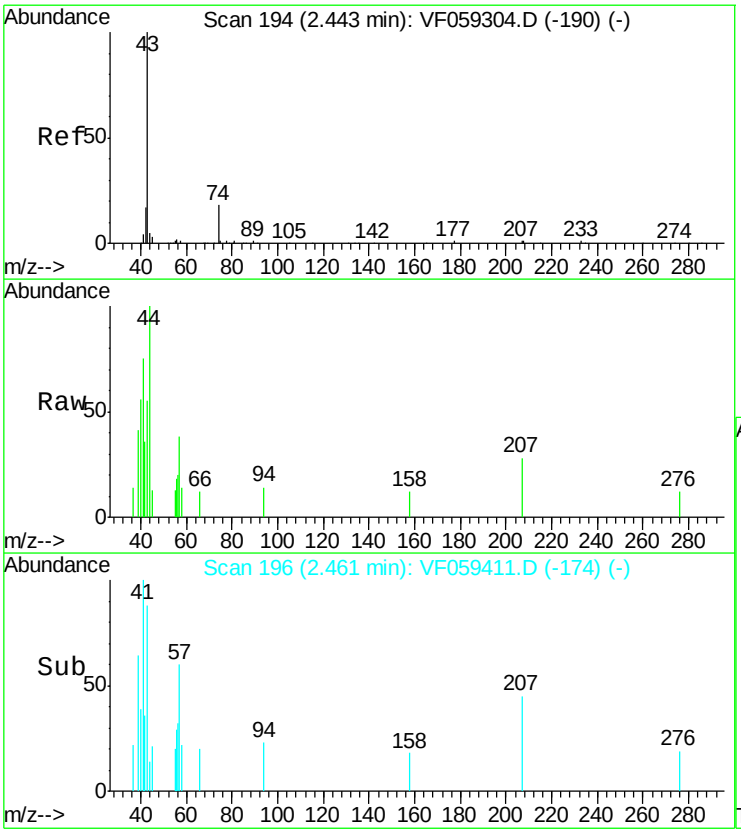

#16
Acetone
Concen: 4.707 ug/l
RT: 2.31 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 43 Resp: 1268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 11.4 | 17.0# |

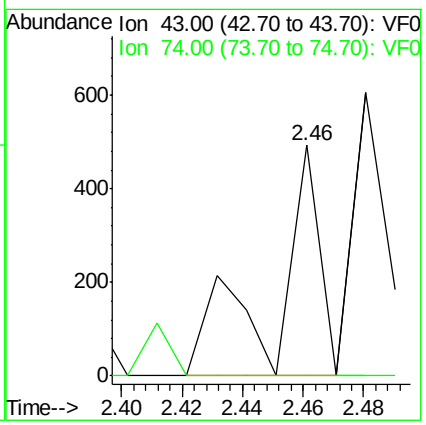


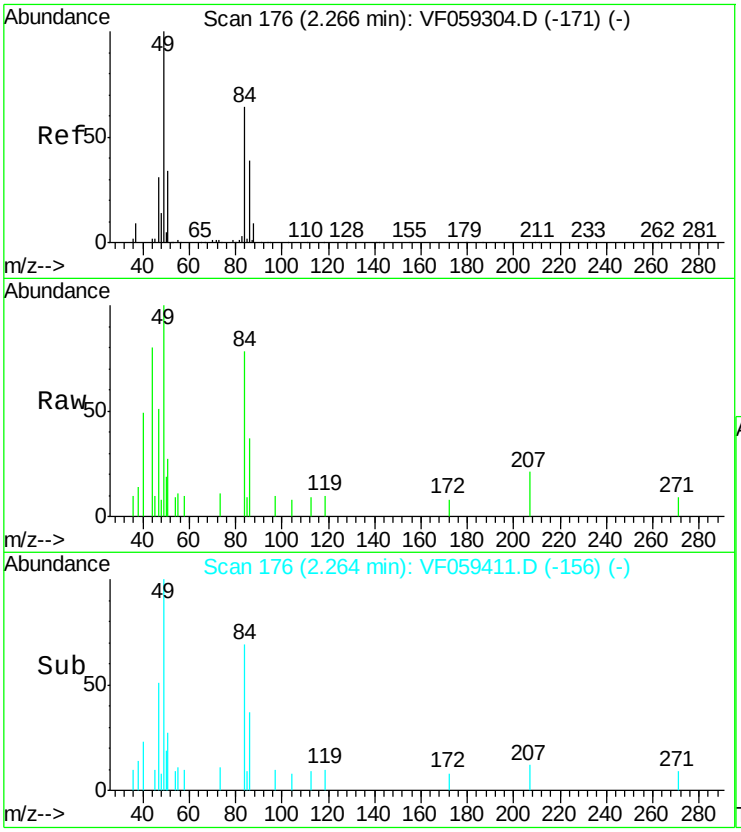




#18
Methyl Acetate
Concen: 2.109 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 43 Resp: 502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 0.0 | 13.3 | 19.9# |



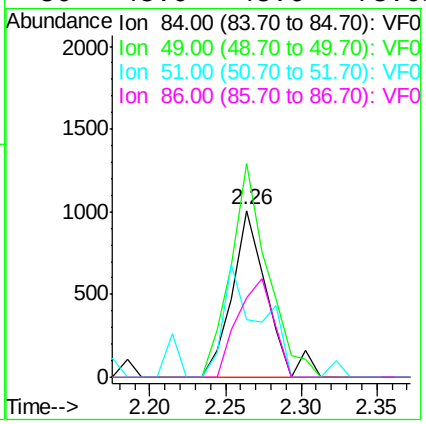


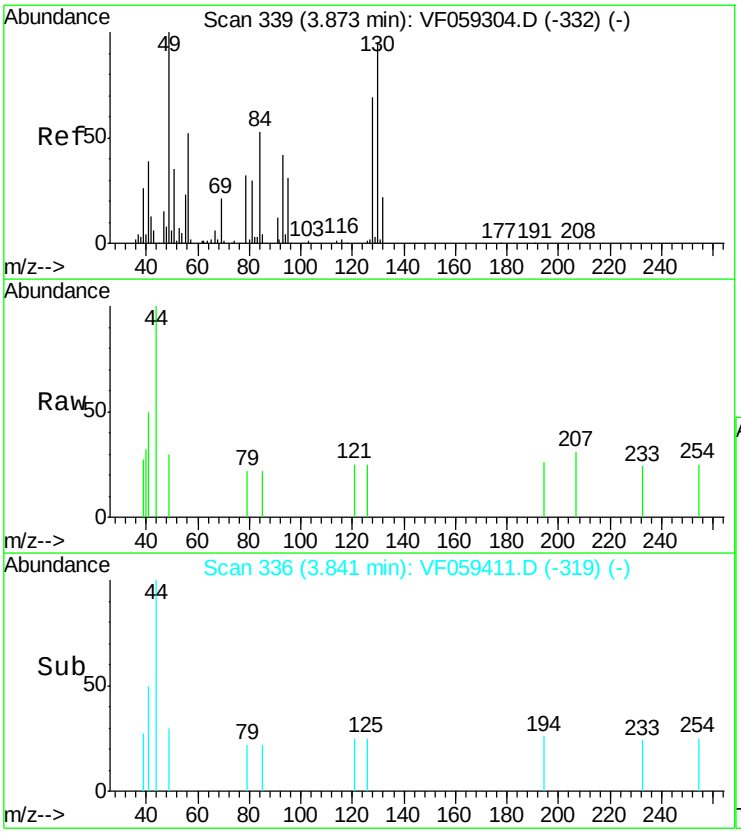

#20
Methylene Chloride
Concen: 1.104 ug/l
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 84 Resp: 1612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 128.2 | 126.5 | 189.7 |
| 51 | 34.9 | 42.9 | 64.3# |
| 86 | 48.0 | 48.6 | 73.0# |

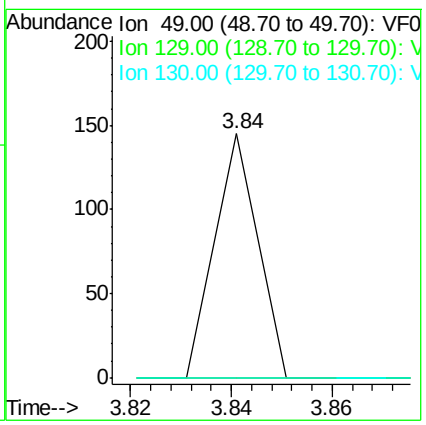


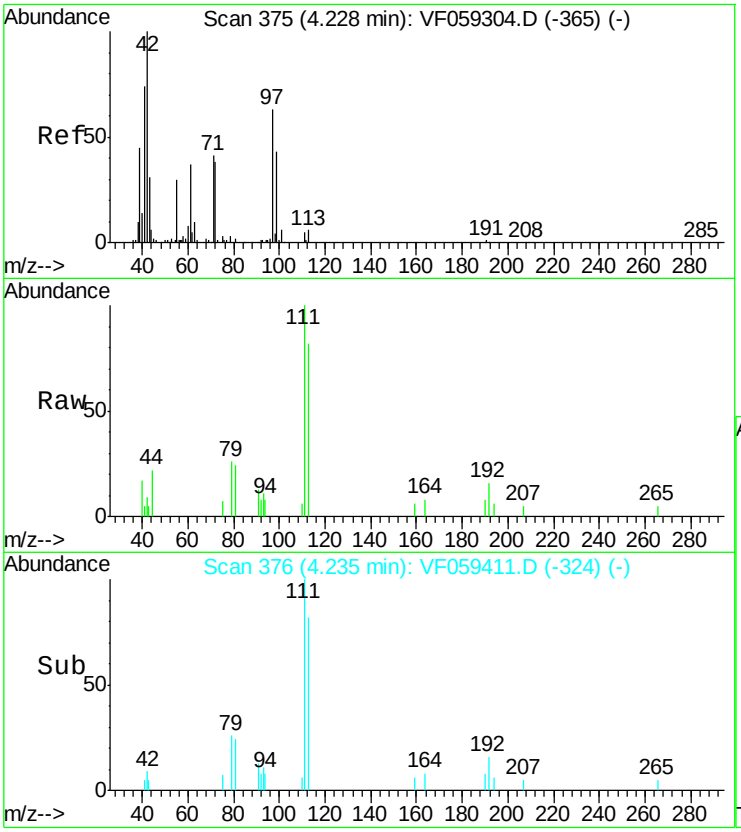




#28
Bromochloromethane
Concen: Below Cal
RT: 3.84 min Scan# 336
Delta R.T. -0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 49 Resp: 86

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



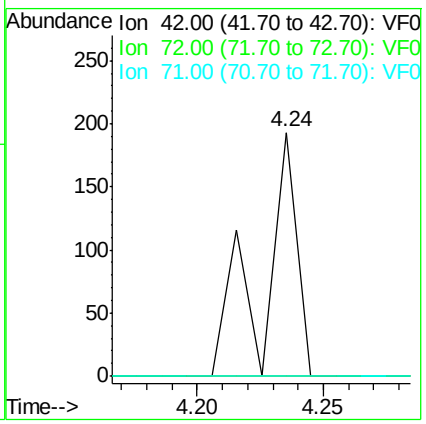


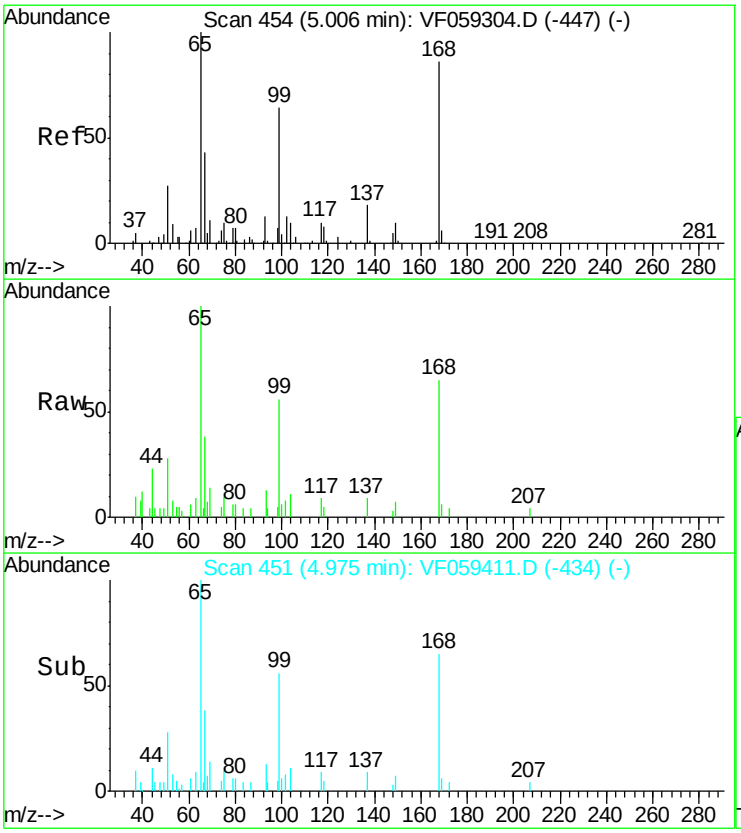

#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 42 Resp: 183

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

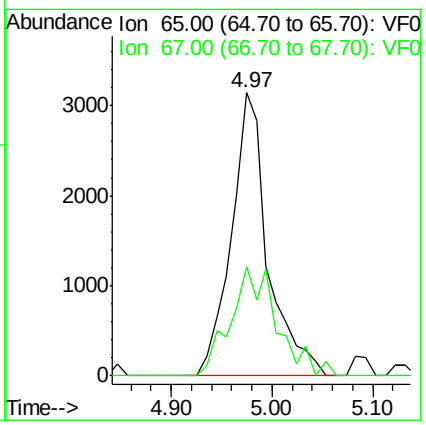


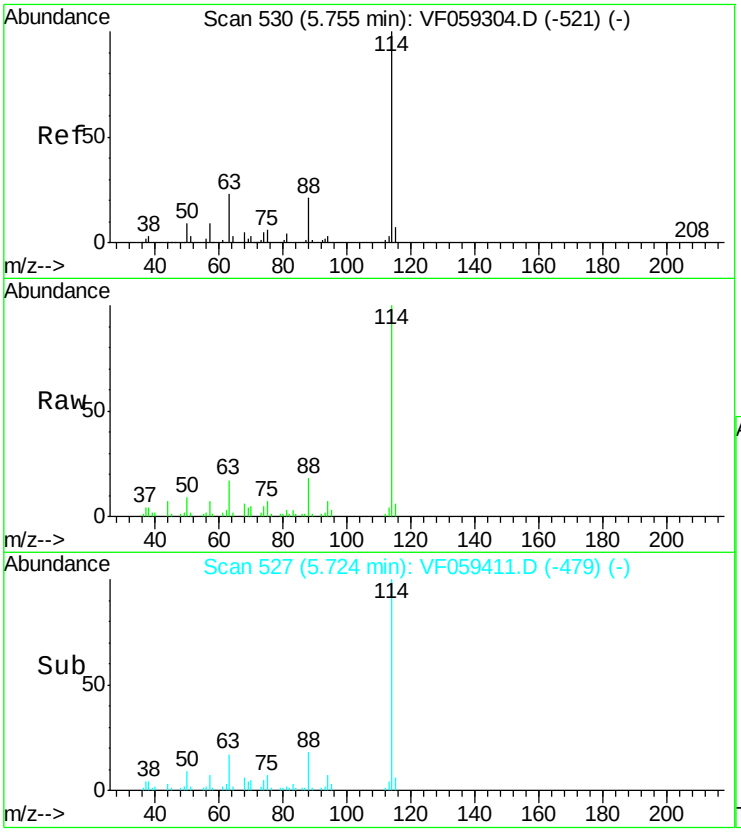




#33
1,2-Dichloroethane-d4
Concen: 22.889 ug/l
RT: 4.97 min Scan# 451
Delta R.T. -0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 65 Resp: 7898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 38.4 | 0.0 | 96.8 |



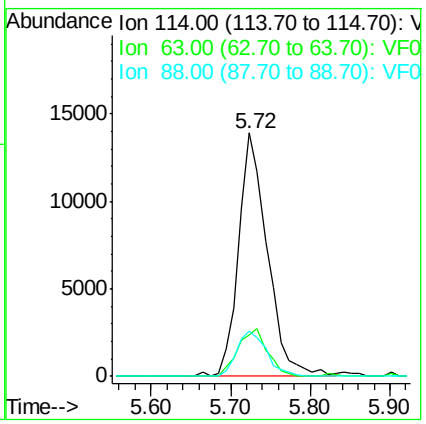


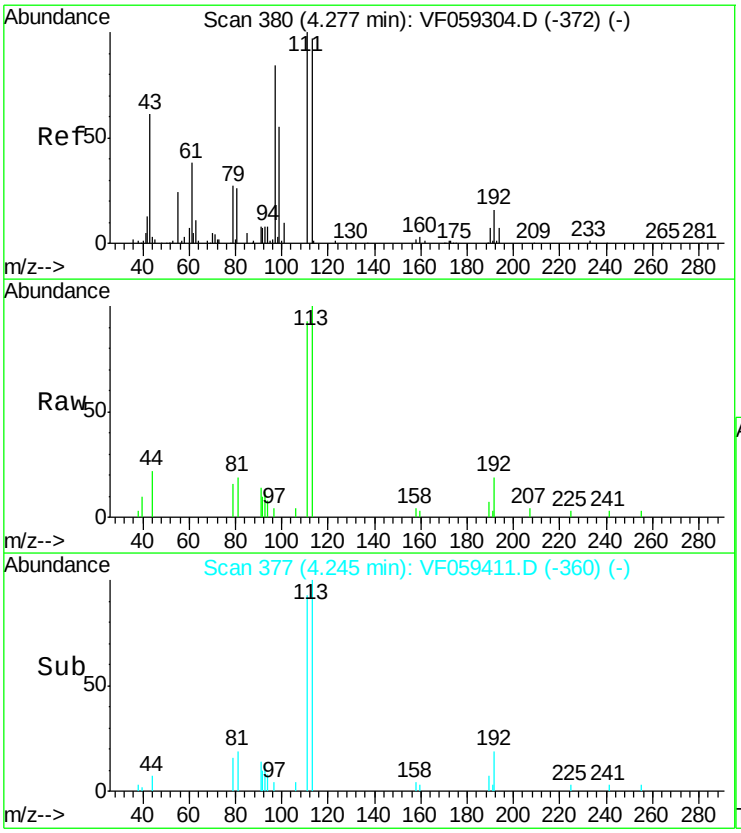

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.72 min Scan# 527
Delta R.T. -0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion:114 Resp: 34821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.9 | 0.0 | 45.8 |
| 88 | 18.4 | 0.0 | 41.2 |

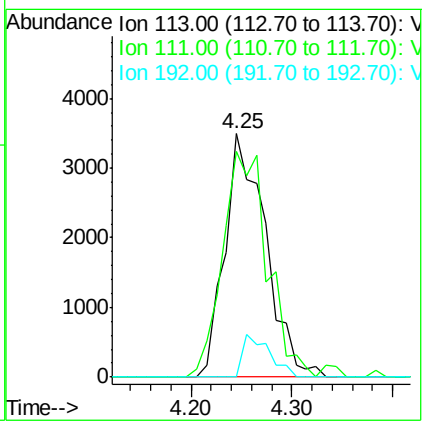


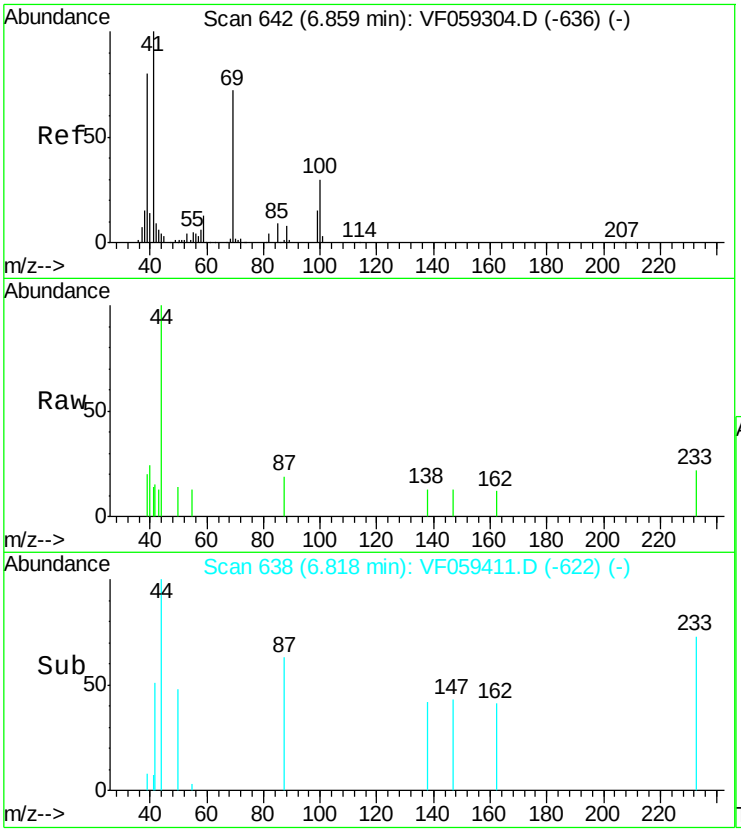




#35
Dibromofluoromethane
Concen: 38.612 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion:113 Resp: 9824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 92.9 | 82.1 | 123.1 |
| 192 | 0.0 | 13.0 | 19.6# |



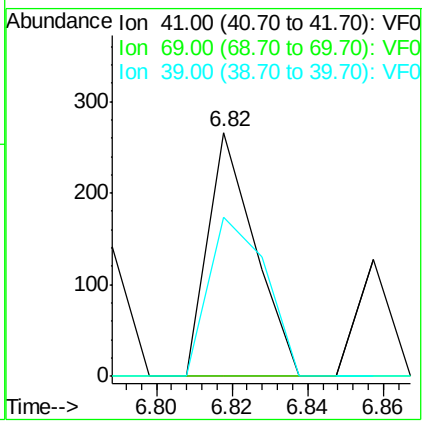


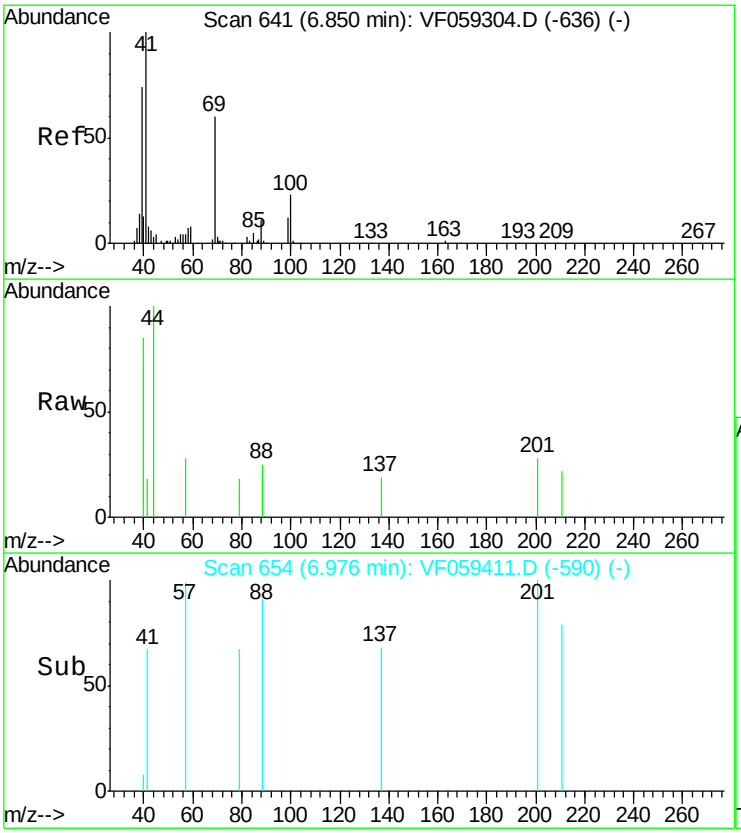

#48
Methyl methacrylate
Concen: 1.337 ug/l
RT: 6.82 min Scan# 638
Delta R.T. -0.04 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 41 Resp: 227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 0.0 | 57.3 | 85.9# |
| 39 | 65.4 | 64.4 | 96.6 |

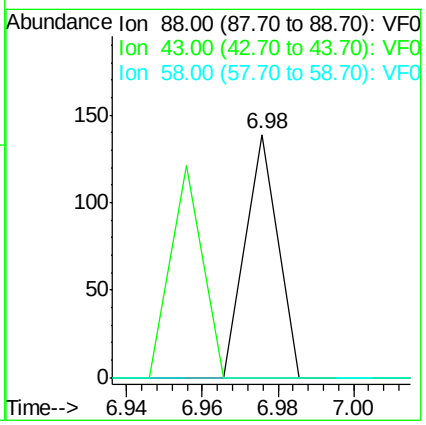


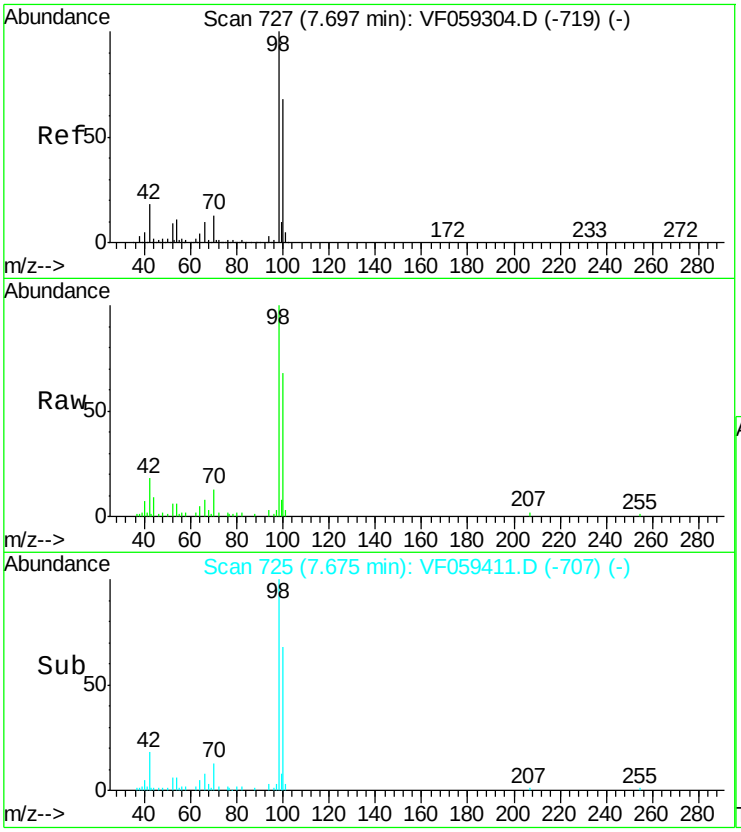




#49
1,4-Dioxane
Concen: 50.085 ug/l
RT: 6.98 min Scan# 654
Delta R.T. 0.13 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 88 Resp: 82

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



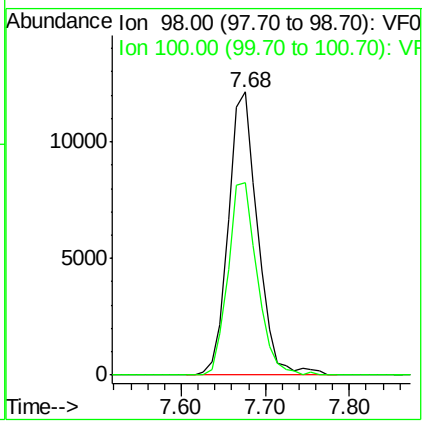


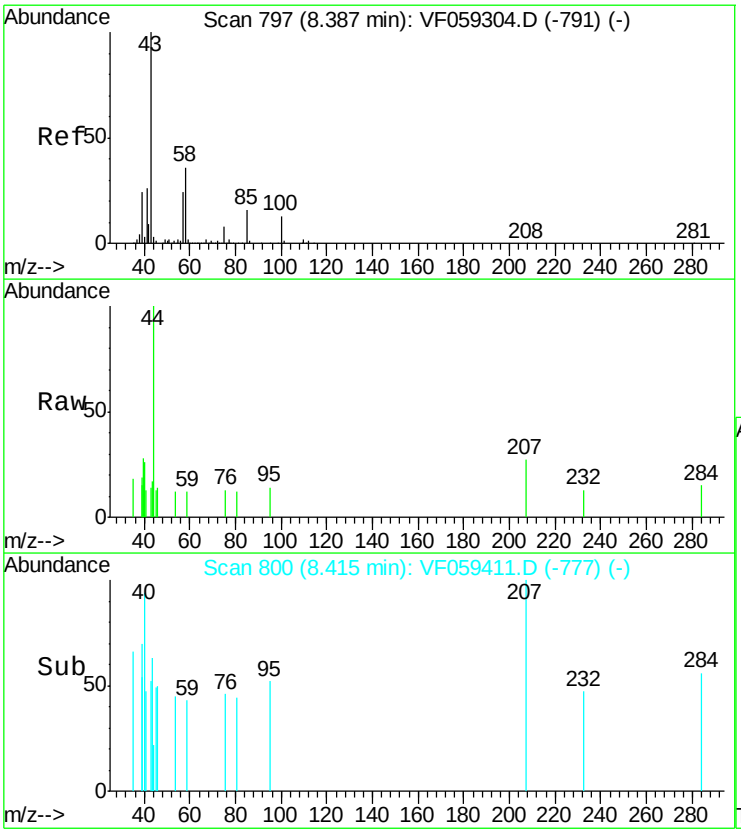

#50
Toluene-d8
Concen: 46.564 ug/l
RT: 7.68 min Scan# 725
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 98 Resp: 29332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 68.1 | 54.6 | 82.0 |

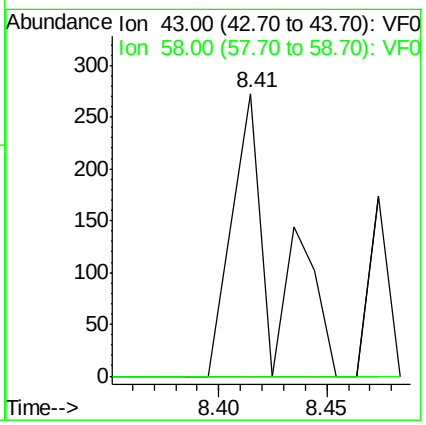


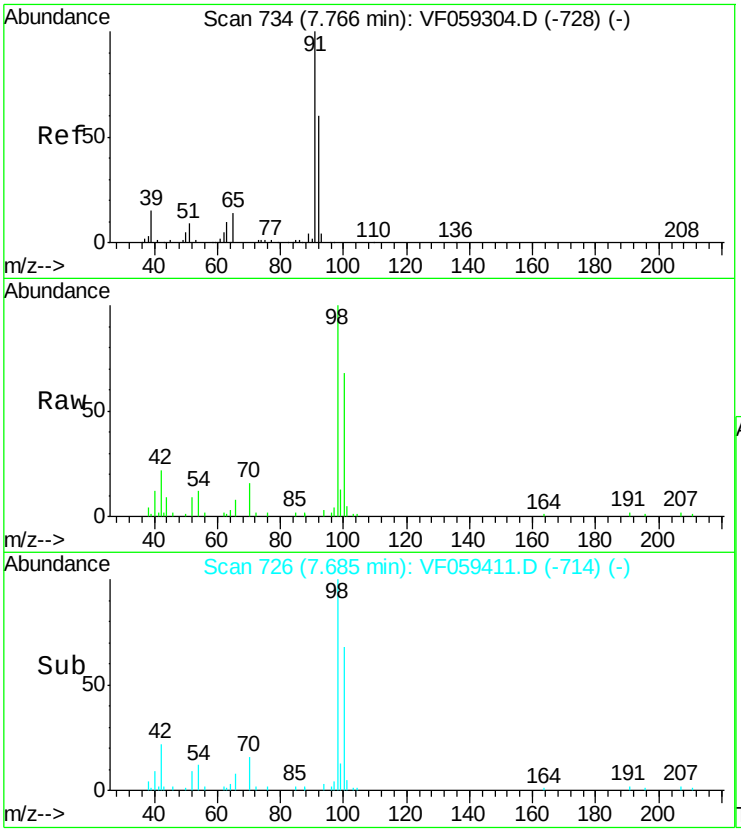




#51
4-Methyl-2-Pentanone
Concen: 2.078 ug/l
RT: 8.41 min Scan# 800
Delta R.T. 0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 43 Resp: 390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 28.4 | 42.6# |



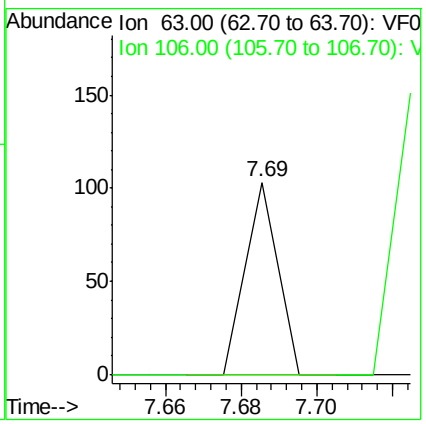


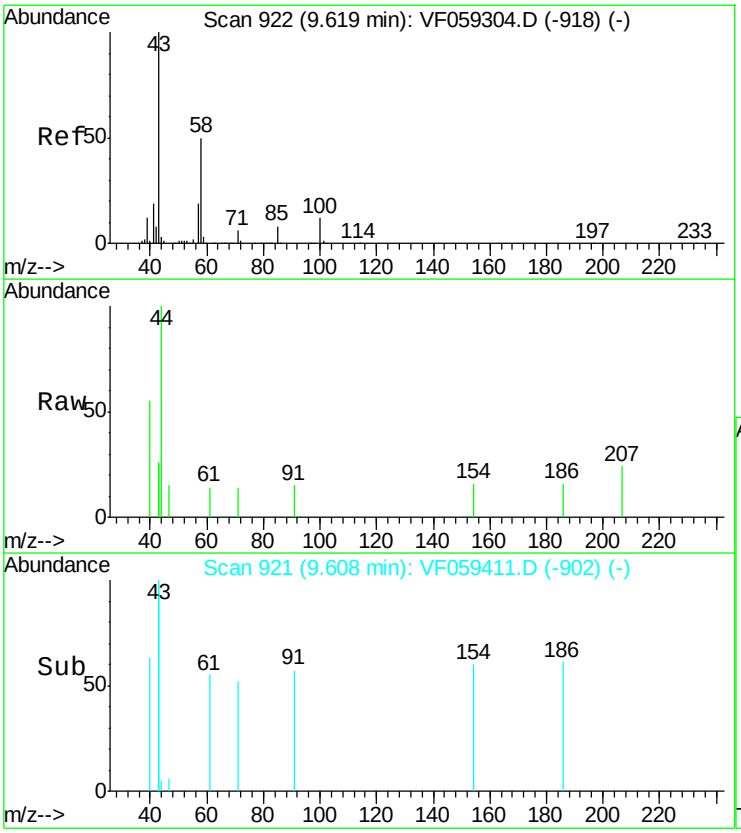

#58
2-Chloroethyl Vinyl ether
Concen: 3.351 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.08 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 63 Resp: 61

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

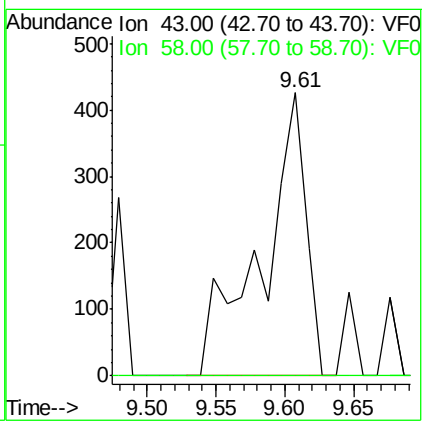


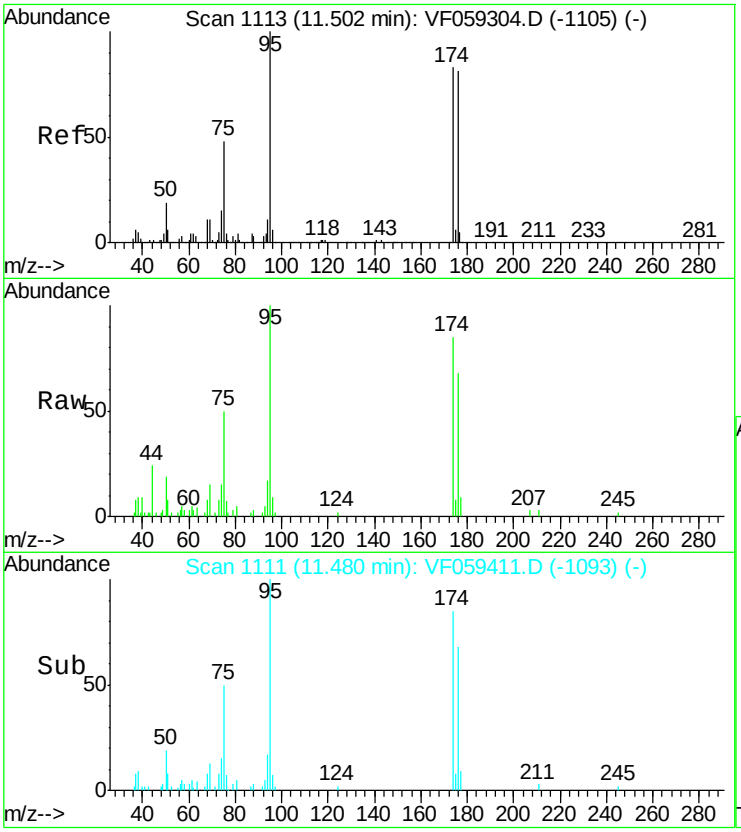




#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 43 Resp: 936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 23.3 | 69.9# |



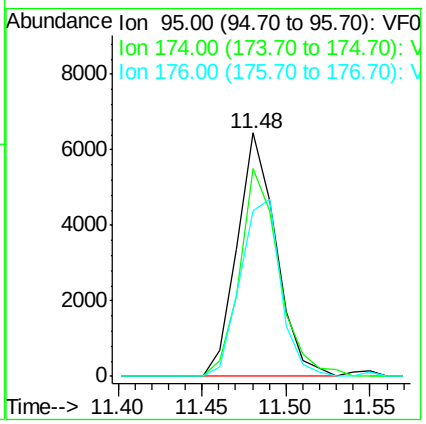


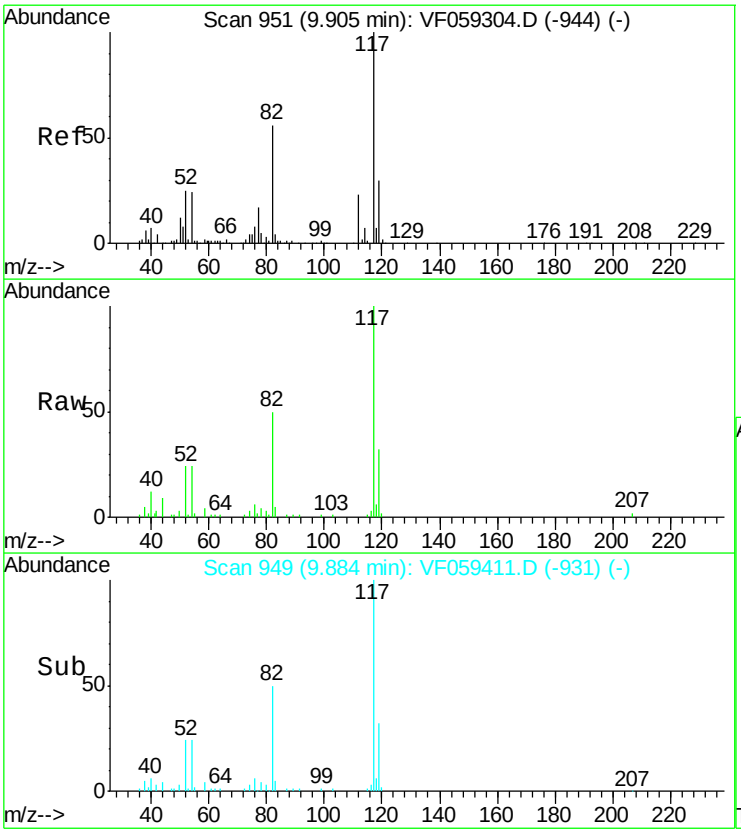

#62
4-Bromofluorobenzene
Concen: 29.164 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 95 Resp: 10363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.3 | 0.0 | 165.2 |
| 176 | 68.2 | 0.0 | 161.0 |

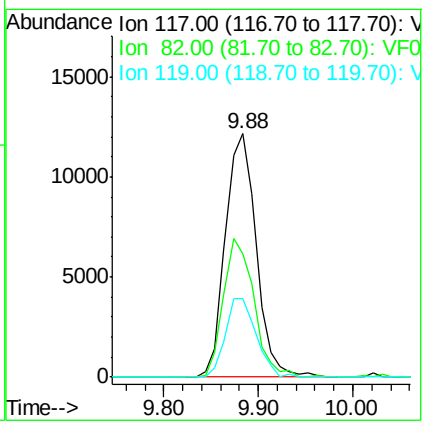


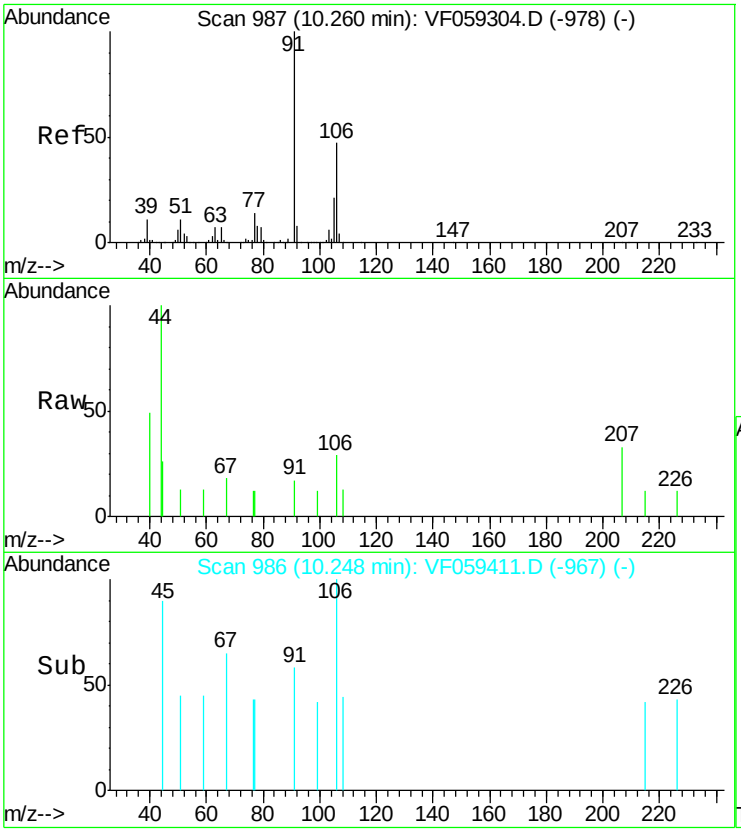




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion:117 Resp: 27473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.4 | 44.6 | 66.8 |
| 119 | 32.4 | 24.1 | 36.1 |



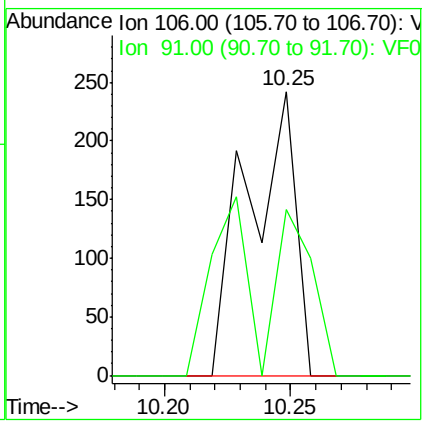


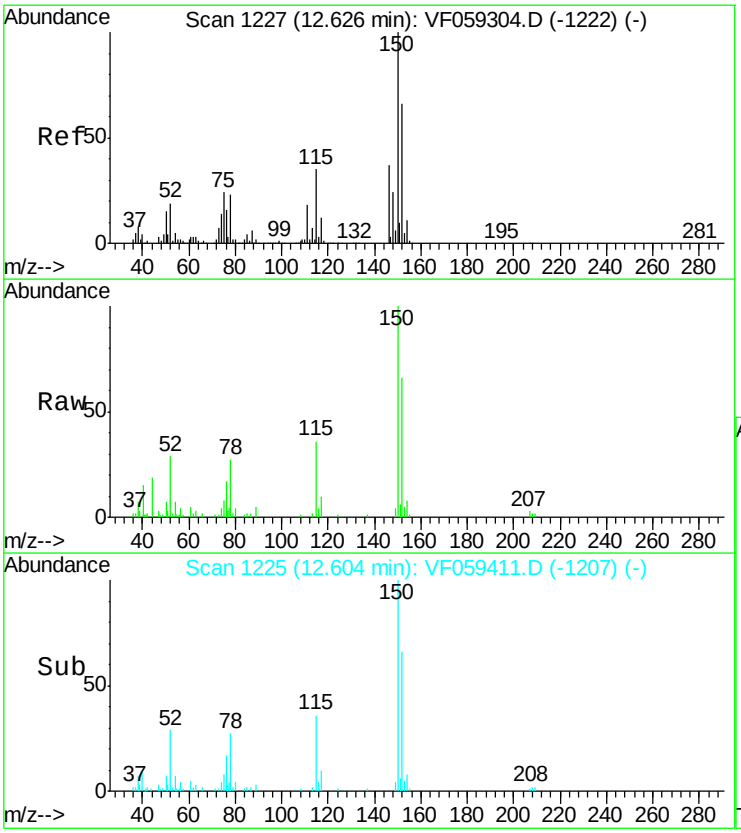

#68
m/p-Xylenes
Concen: 1.051 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion:106 Resp: 323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 58.3 | 170.8 | 256.2# |

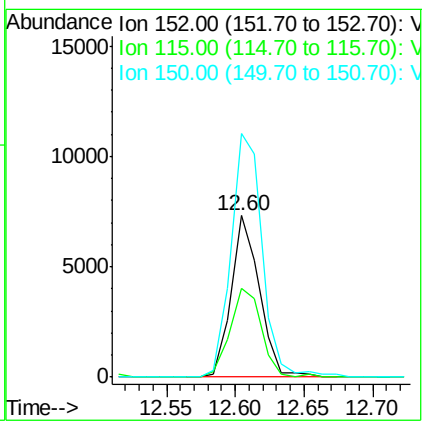


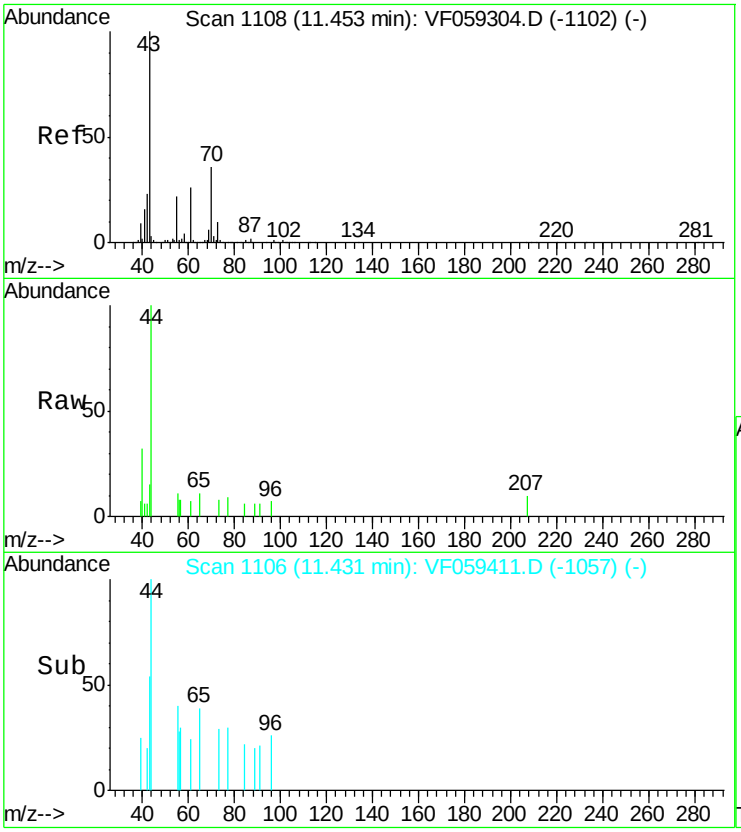




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion:152 Resp: 10429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.8 | 27.1 | 81.3 |
| 150 | 151.1 | 0.0 | 305.2 |



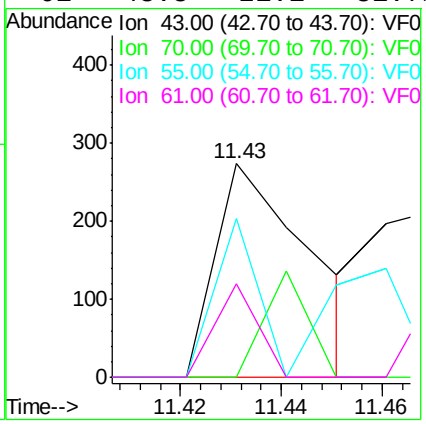


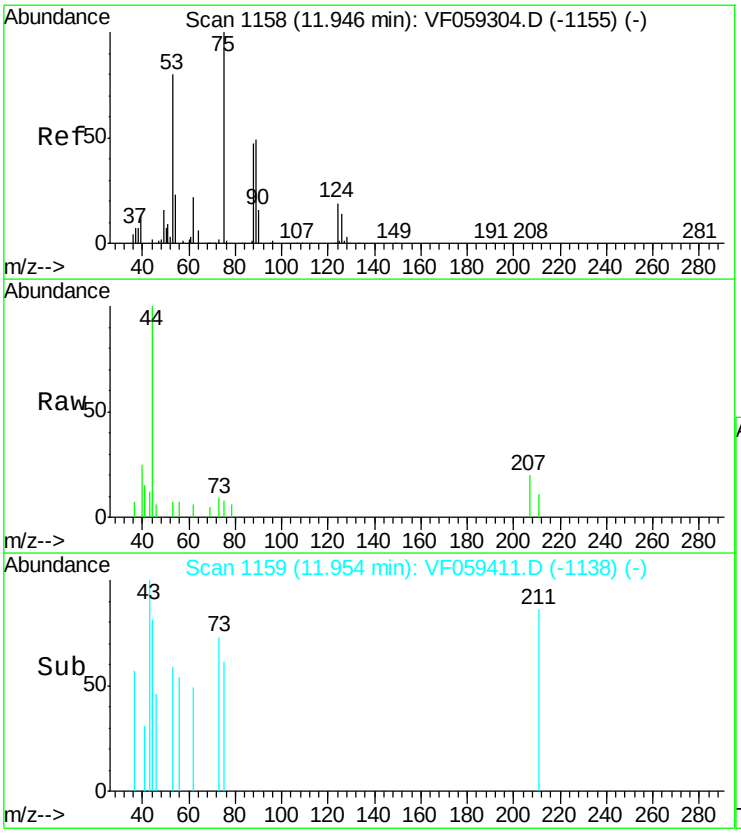

#74
N-amyl acetate
Concen: 1.601 ug/l
RT: 11.43 min Scan# 1106
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 43 Resp: 353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 0.0 | 28.8 | 43.2# |
| 55 | 74.5 | 17.4 | 26.0# |
| 61 | 43.8 | 21.1 | 31.7# |

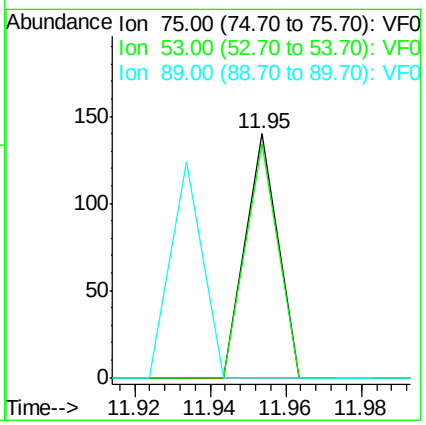


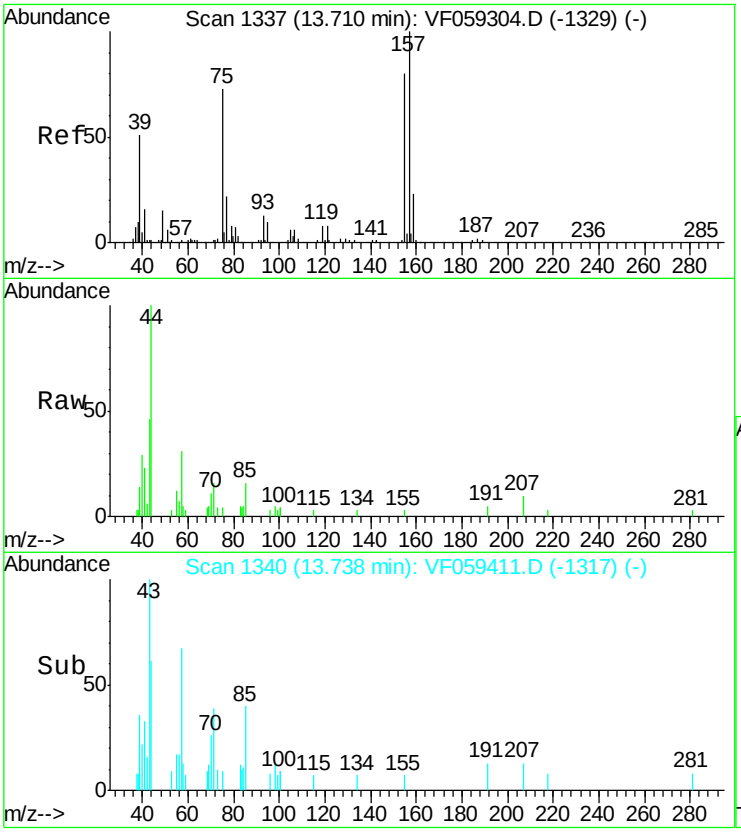




#81
trans-1,4-Dichloro-2-butene
Concen: 1.205 ug/l
RT: 11.95 min Scan# 1159
Delta R.T. 0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 75 Resp: 83

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.7 | 68.8 | 103.2 |
| 89 | 0.0 | 42.0 | 63.0# |






#92
1,2-Dibromo-3-Chloropropane
Concen: 2.381 ug/l
RT: 13.74 min Scan# 1340
Delta R.T. 0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

**Instrument :**
MSVOA_F
**ClientSampleId :**
SB-6(4-6)RE

Tgt Ion: 75 Resp: 81

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 78.1 | 54.6 | 163.8 |
| 157 | 0.0 | 68.7 | 205.9# |