Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF031919\
Data File : VF062018.D
Acq On : 19 Mar 2019 15:14
Operator : VA/AP
Sample : K1951-04
Misc : 5.58g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :**

Quant Time: Mar 20 05:21:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
Quant Title : SW846 8260
QLast Update : Mon Mar 18 07:28:40 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 4.86 | 168 | 262830 | 50.00 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 5.58 | 114 | 405768 | 50.00 | ug/l | -0.02 |
| 63) Chlorobenzene-d5 | 9.75 | 117 | 294313 | 50.00 | ug/l | -0.02 |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152 | 104779 | 50.00 | ug/l | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.83 | 65 | 112194 | 59.30 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 118.60% | | | |
| 35) Dibromofluoromethane | 4.10 | 113 | 159693 | 58.61 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 117.22% | | | |
| 50) Toluene-d8 | 7.53 | 98 | 394167 | 49.48 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 98.96% | | | |
| 62) 4-Bromofluorobenzene | 11.40 | 95 | 136198 | 43.04 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 86.08% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 11) Tert butyl alcohol | 2.56 | 59 | 628 | 5.425 | ug/l # | 1 |
| 13) Acrolein | 1.89 | 56 | 440 | 3.521 | ug/l | 98 |
| 15) Acrylonitrile | 2.92 | 53 | 448 | 1.273 | ug/l # | 23 |
| 16) Acetone | 2.24 | 43 | 26383 | 62.100 | ug/l | 92 |
| 20) Methylene Chloride | 2.24 | 84 | 2931 | 1.340 | ug/l | 93 |
| 25) 2-Butanone | 4.32 | 43 | 2904 | 3.451 | ug/l | 90 |
| 29) Tetrahydrofuran | 4.08 | 42 | 1990 | 5.438 | ug/l # | 64 |
| 37) Ethyl Acetate | 4.00 | 43 | 7032 | 4.274 | ug/l # | 71 |
| 44) Trichloroethene | 5.48 | 130 | 3074 | 1.034 | ug/l | 91 |
| 49) 1,4-Dioxane | 6.77 | 88 | 59 | 5.272 | ug/l # | 1 |
| 51) 4-Methyl-2-Pentanone | 8.25 | 43 | 3522 | 2.548 | ug/l # | 82 |
| 52) Toluene | 7.61 | 92 | 6929 | 1.168 | ug/l | 80 |
| 56) Ethyl methacrylate | 8.60 | 69 | 3042 | 1.616 | ug/l # | 61 |
| 69) o-Xylene | 10.70 | 106 | 5511 | 1.460 | ug/l | 81 |
| 80) 1,3,5-Trimethylbenzene | 11.81 | 105 | 21917 | 3.748 | ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 12.19 | 105 | 13594 | 2.321 | ug/l | 92 |
| 86) p-Isopropyltoluene | 12.41 | 119 | 9253 | 1.342 | ug/l | 93 |
| 89) n-Butylbenzene | 12.82 | 91 | 6861 | 1.059 | ug/l # | 1 |
| 95) Naphthalene | 14.44 | 128 | 11262 | 2.947 | ug/l # | 82 |

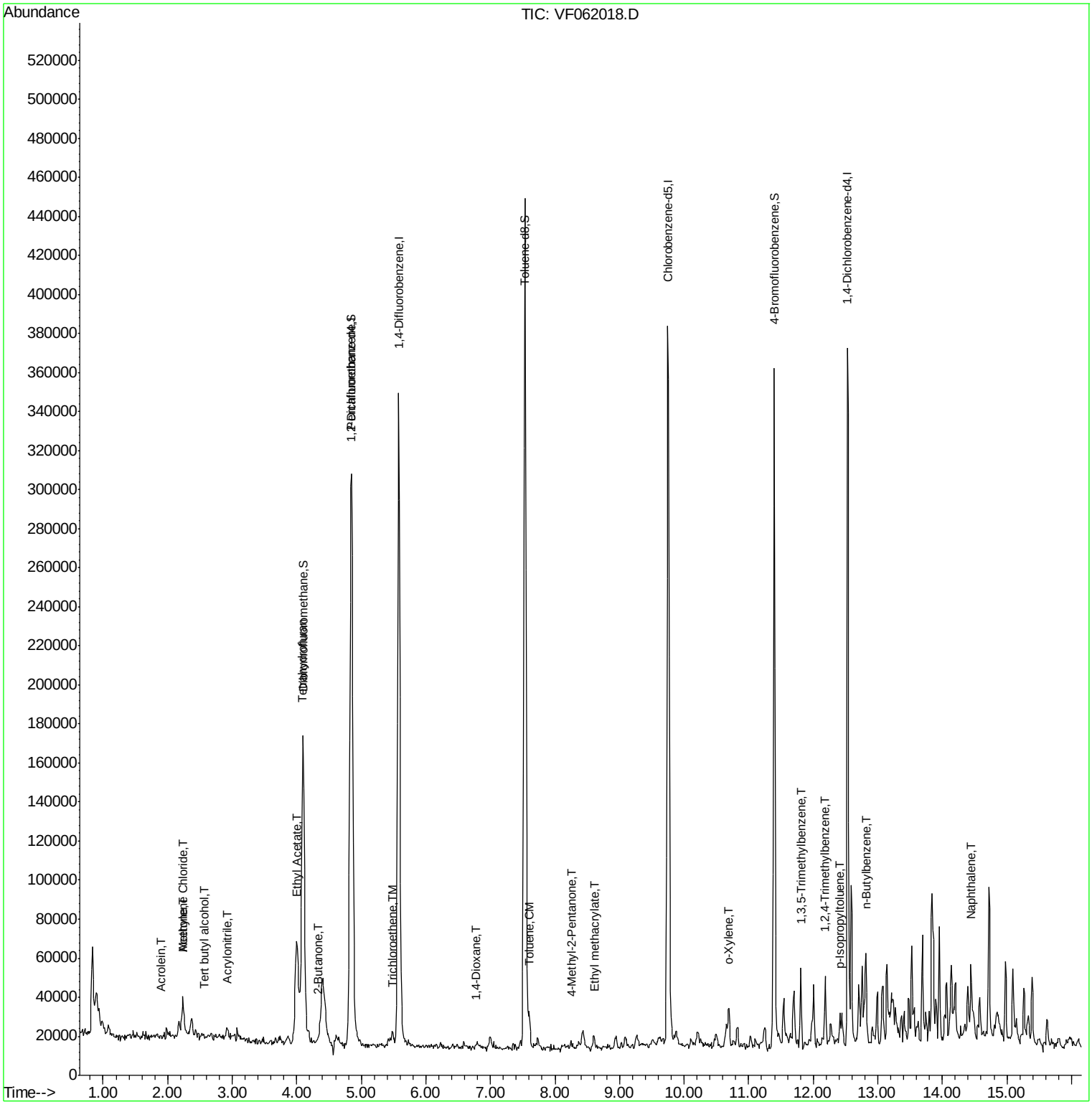
(#) = qualifier out of range (m) = manual integration (+) = signals summed

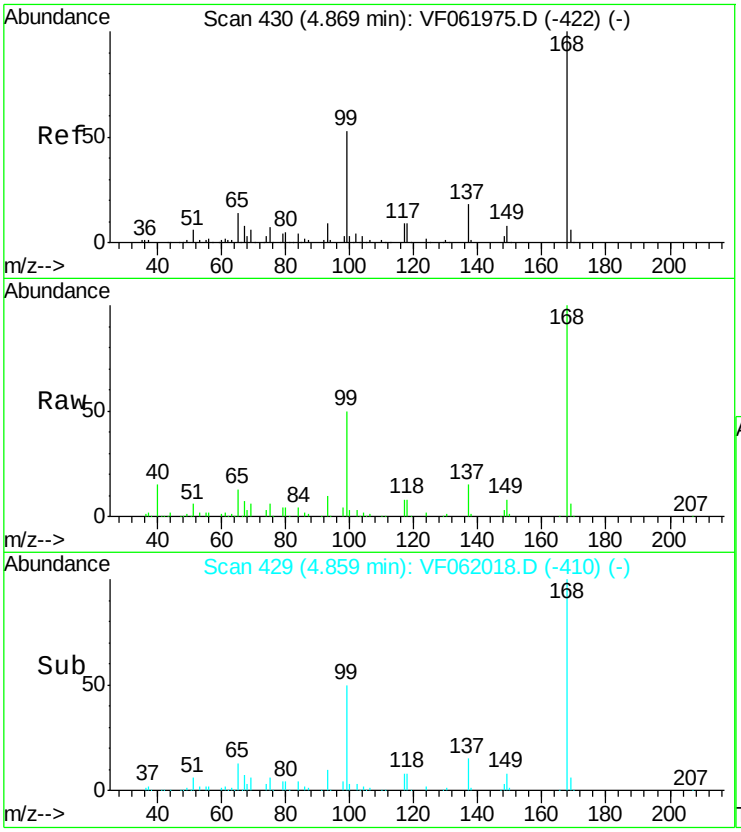
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031919\
Data File : VF062018.D
Acq On : 19 Mar 2019 15:14
Operator : VA/AP
Sample : K1951-04
Misc : 5.58g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_F
**ClientSampleId :**

Quant Time: Mar 20 05:21:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
Quant Title : SW846 8260
QLast Update : Mon Mar 18 07:28:40 2019
Response via : Initial Calibration



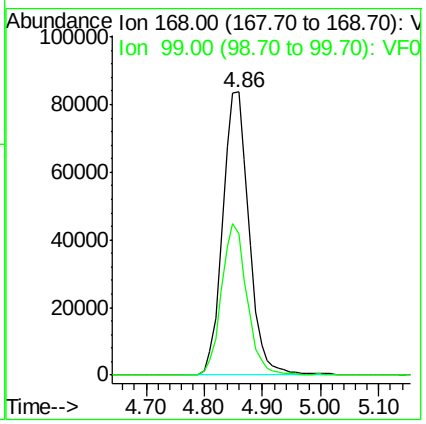


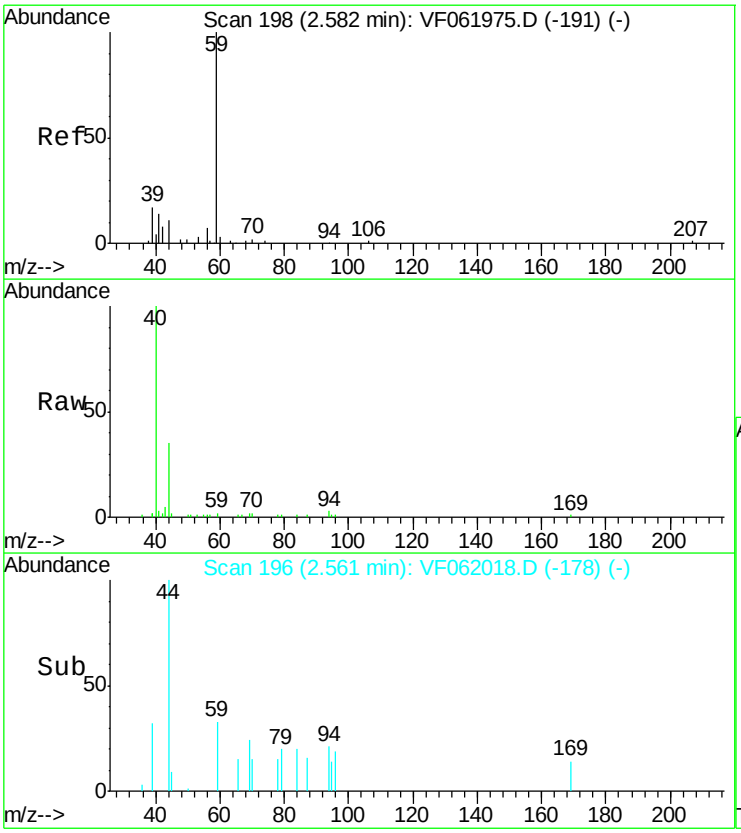

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.86 min Scan# 429
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion:168 Resp: 262830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.9 | 42.4 | 63.6 |

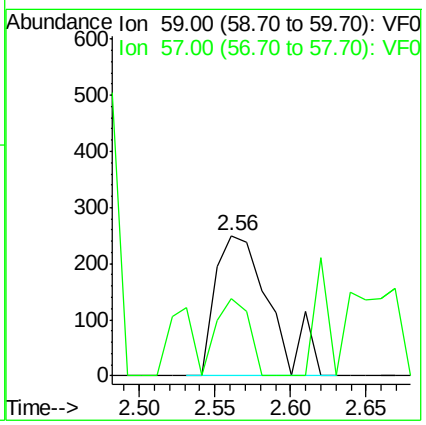


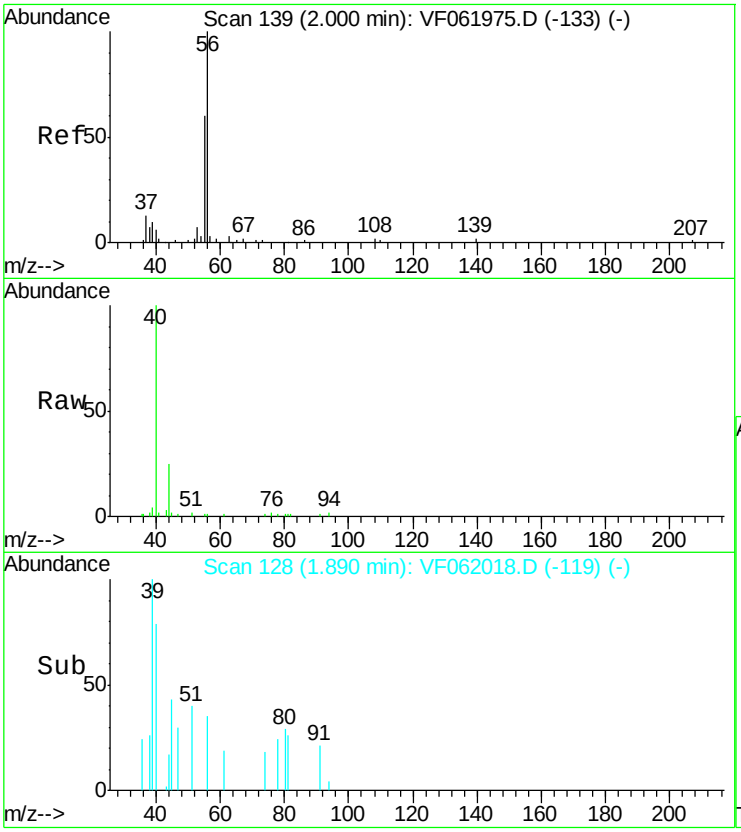




#11
Tert butyl alcohol
Concen: 5.425 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 59 Resp: 628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 55.2 | 8.7 | 13.1# |



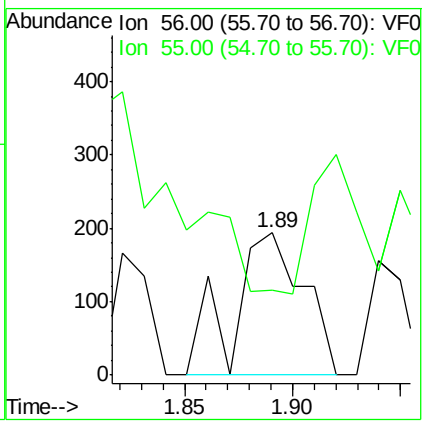


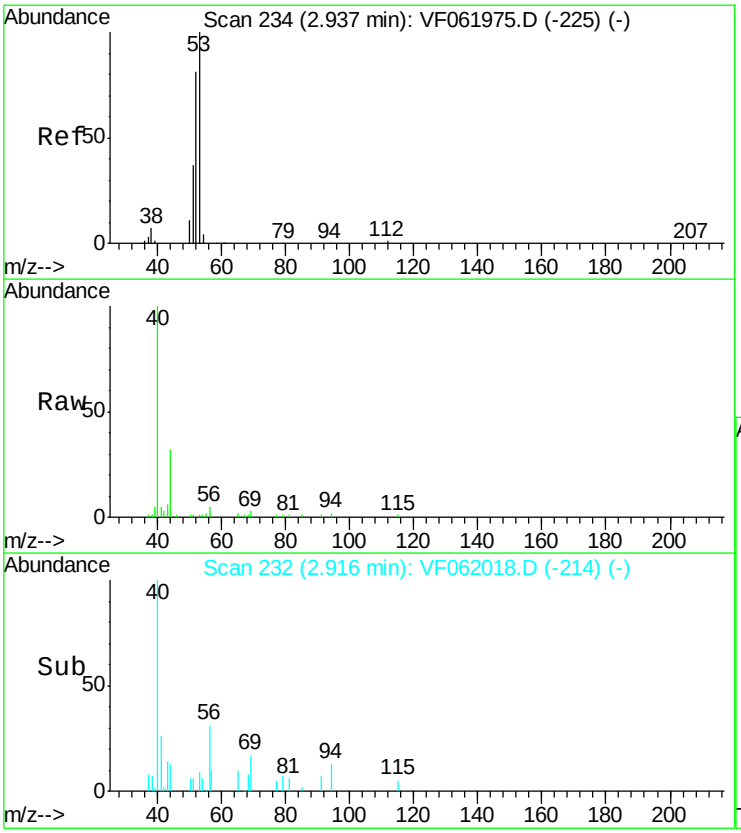

#13
Acrolein
Concen: 3.521 ug/l
RT: 1.89 min Scan# 128
Delta R.T. -0.11 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion: 56 Resp: 440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 59.8 | 49.1 | 73.7 |

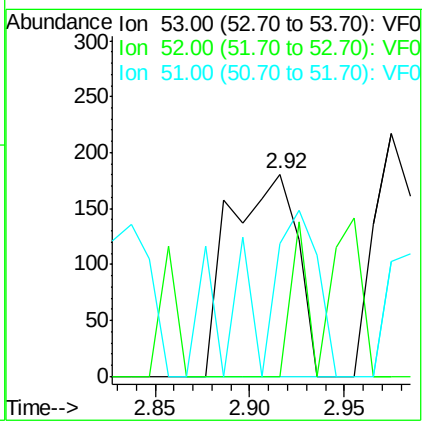


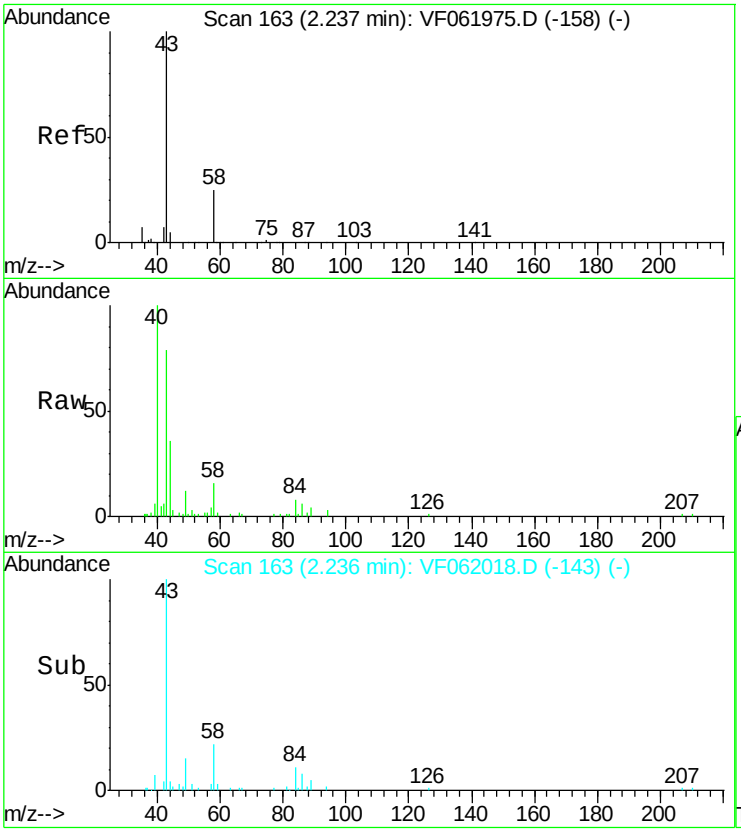




#15
Acrylonitrile
Concen: 1.273 ug/l
RT: 2.92 min Scan# 232
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 53 Resp: 448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 0.0 | 64.4 | 96.6# |
| 51 | 65.7 | 30.3 | 45.5# |



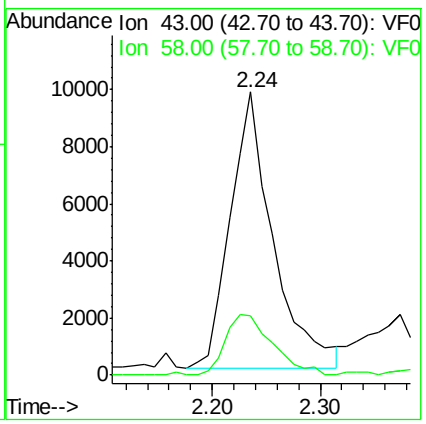


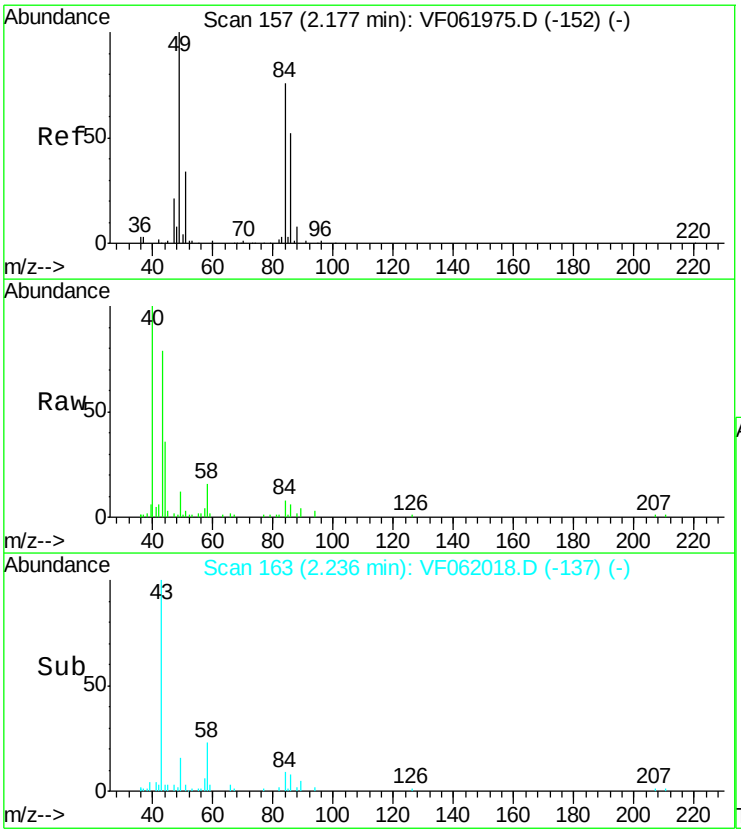

#16
Acetone
Concen: 62.100 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion: 43 Resp: 26383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.8 | 19.9 | 29.9 |

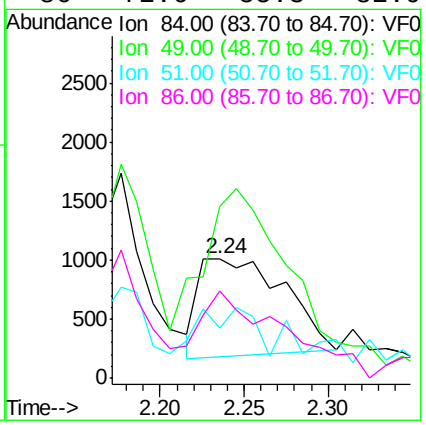


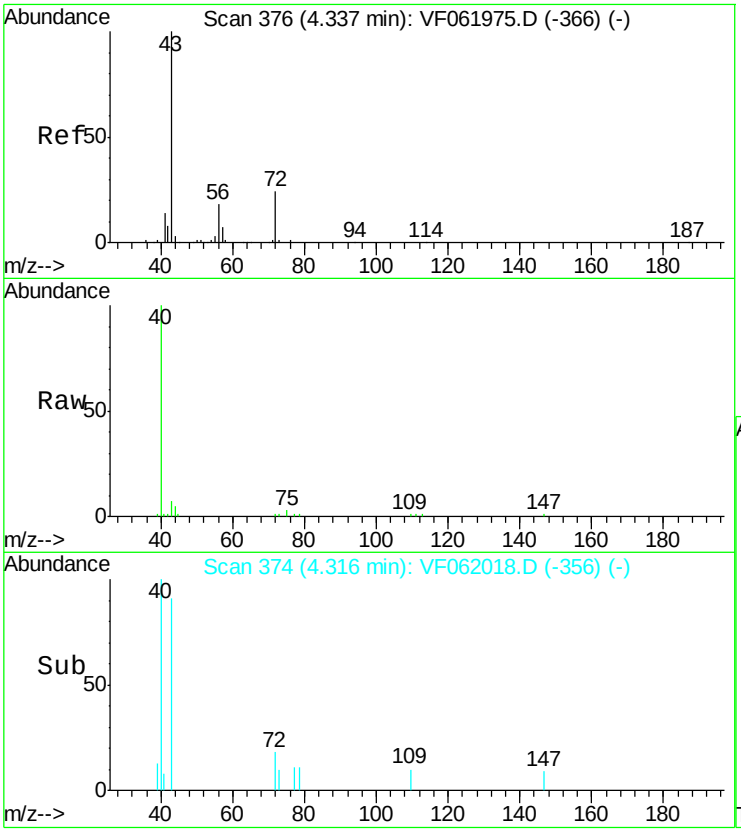




#20
Methylene Chloride
Concen: 1.340 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.06 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 84 Resp: 2931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 143.4 | 107.0 | 160.6 |
| 51 | 41.4 | 37.2 | 55.8 |
| 86 | 72.6 | 55.3 | 82.9 |



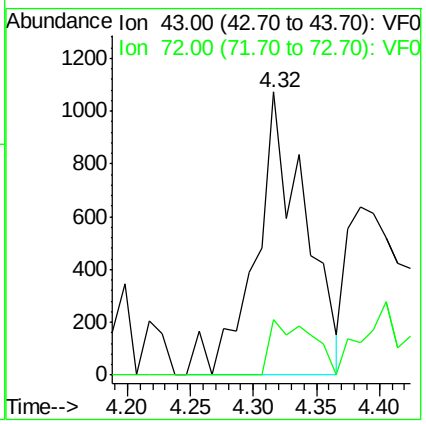


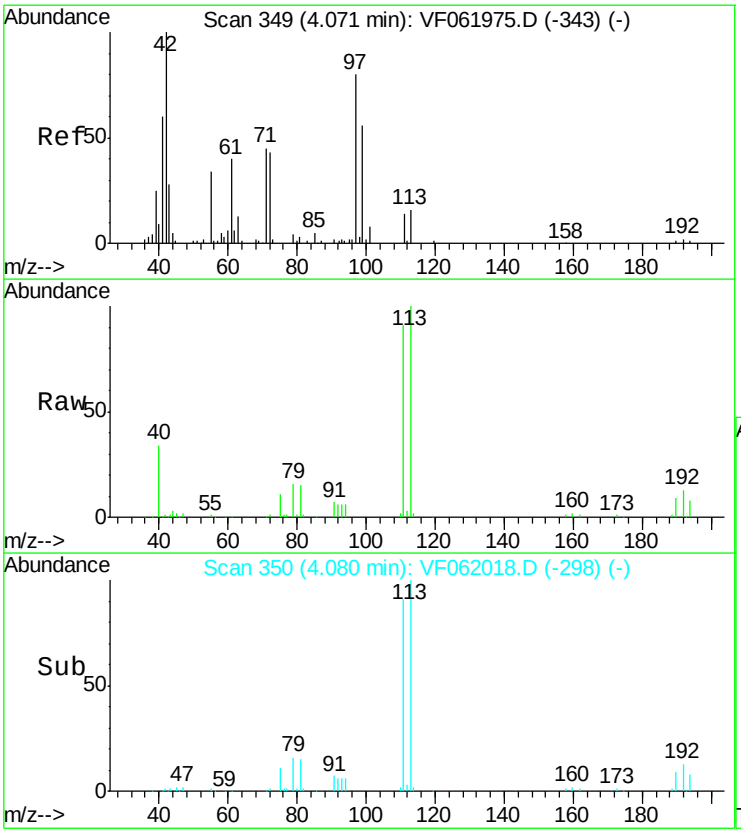

#25
2-Butanone
Concen: 3.451 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion: 43 Resp: 2904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 19.8 | 19.8 | 29.6 |

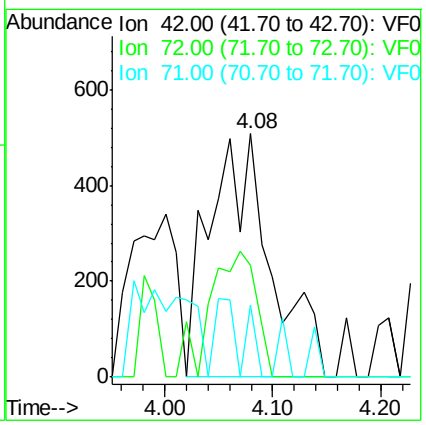


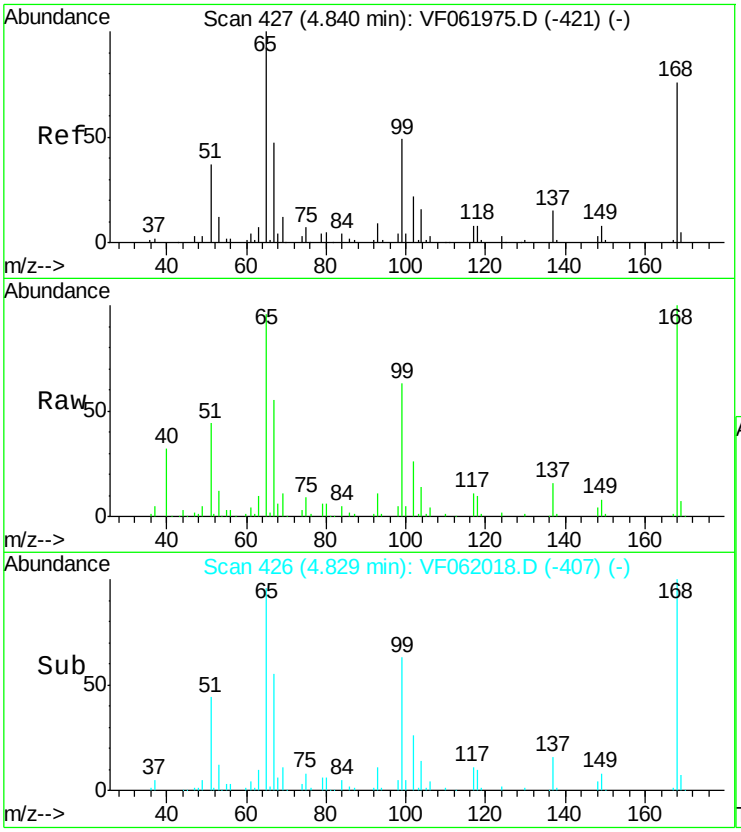




#29
Tetrahydrofuran
Concen: 5.438 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 42 Resp: 1990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.3 | 34.0 | 51.0 |
| 71 | 0.0 | 34.2 | 51.4# |



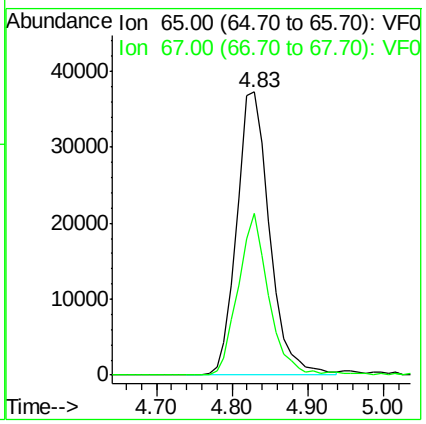


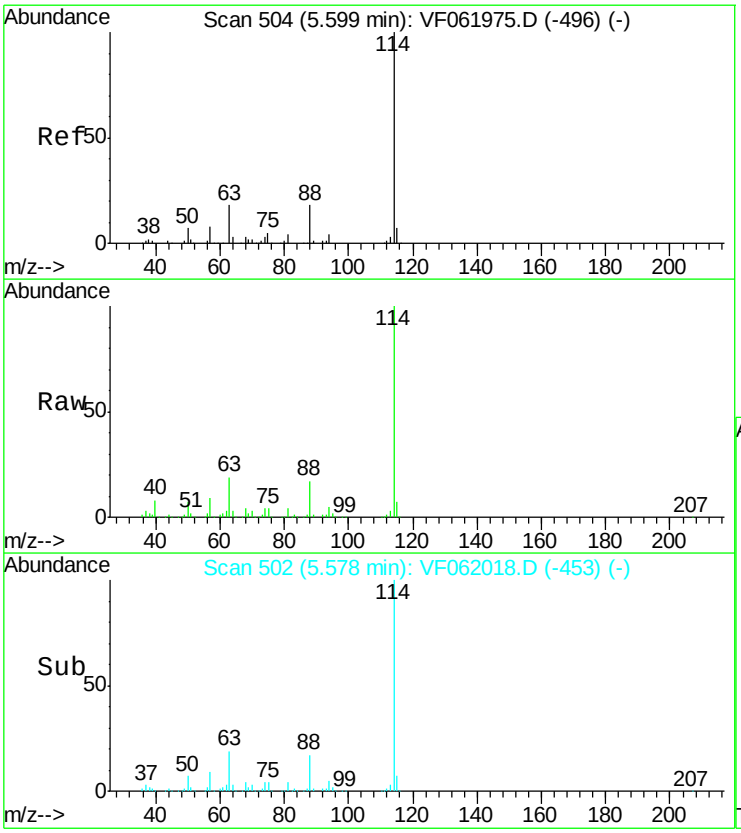

#33
1,2-Dichloroethane-d4
Concen: 59.301 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion: 65 Resp: 112194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 57.0 | 0.0 | 109.4 |

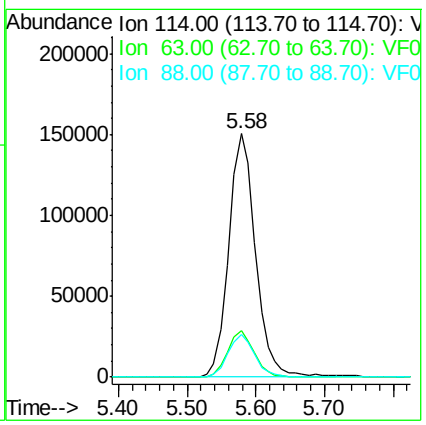


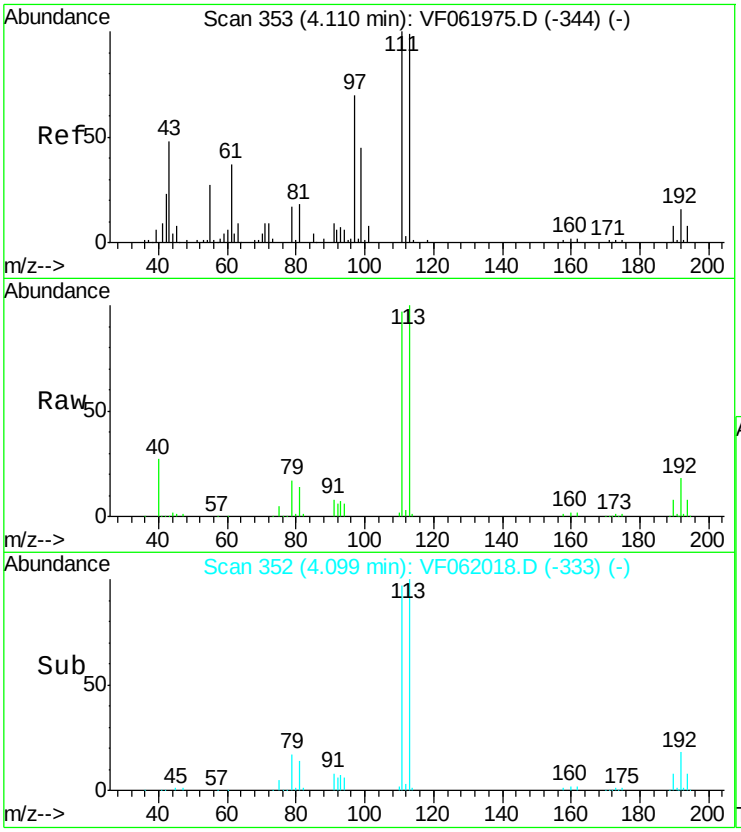




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.58 min Scan# 502
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion:114 Resp: 405768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 36.4 |
| 88 | 17.5 | 0.0 | 36.4 |



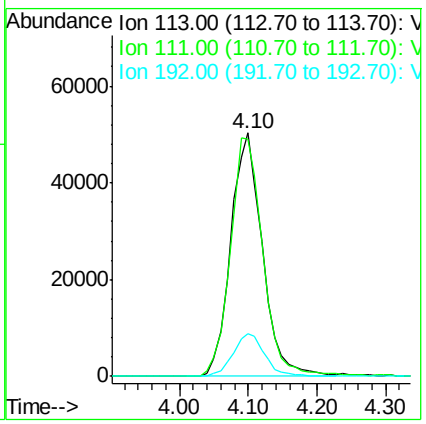


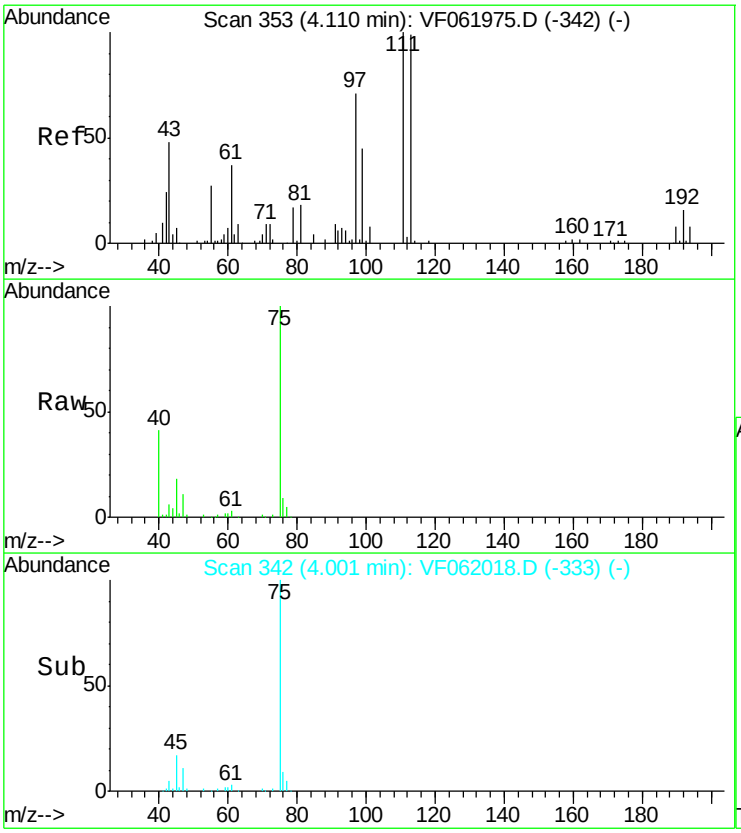

#35
Dibromofluoromethane
Concen: 58.607 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion:113 Resp: 159693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 97.4 | 80.8 | 121.2 |
| 192 | 17.6 | 13.0 | 19.6 |

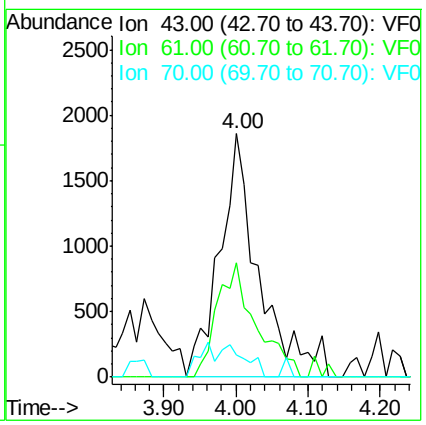


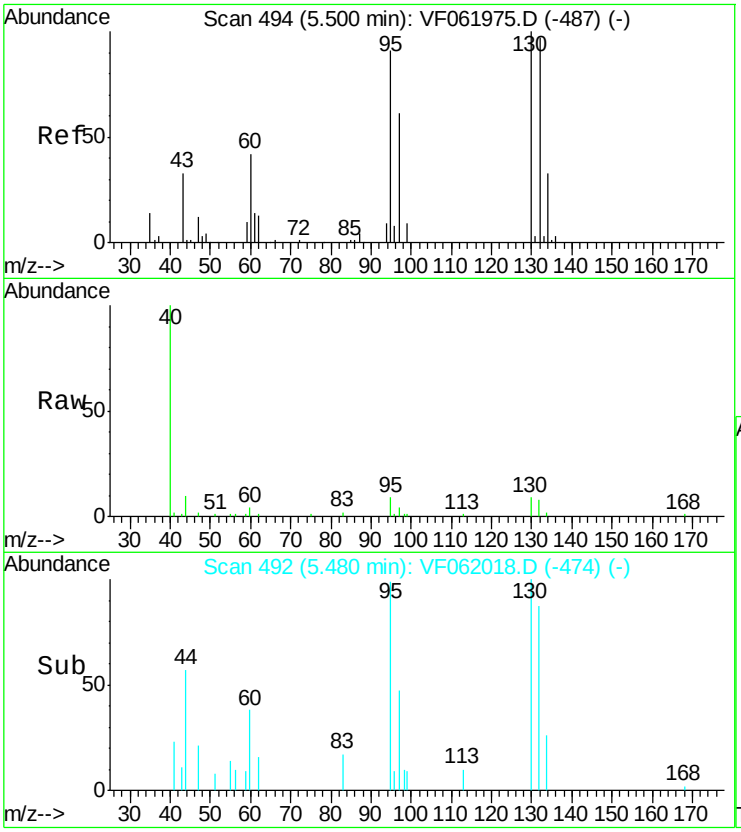




#37
Ethyl Acetate
Concen: 4.274 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.11 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 43 Resp: 7032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 46.8 | 59.8 | 89.6# |
| 70 | 9.1 | 7.8 | 11.8 |



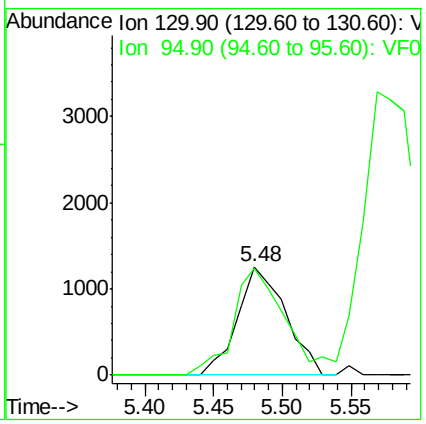


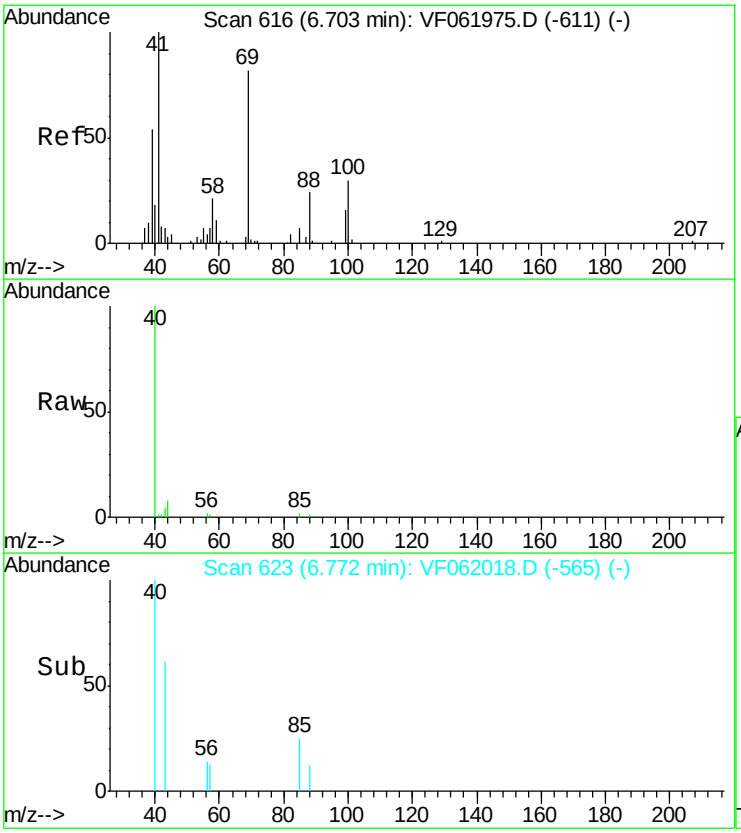

#44
Trichloroethene
Concen: 1.034 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion:130 Resp: 3074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.9 | 0.0 | 181.4 |

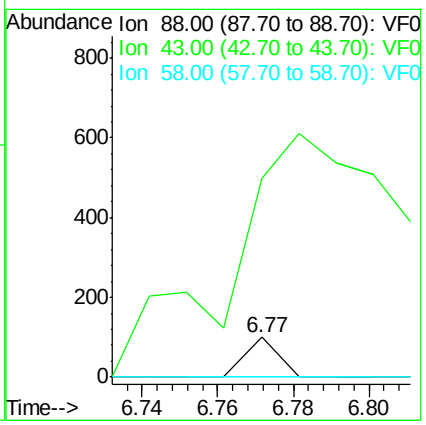


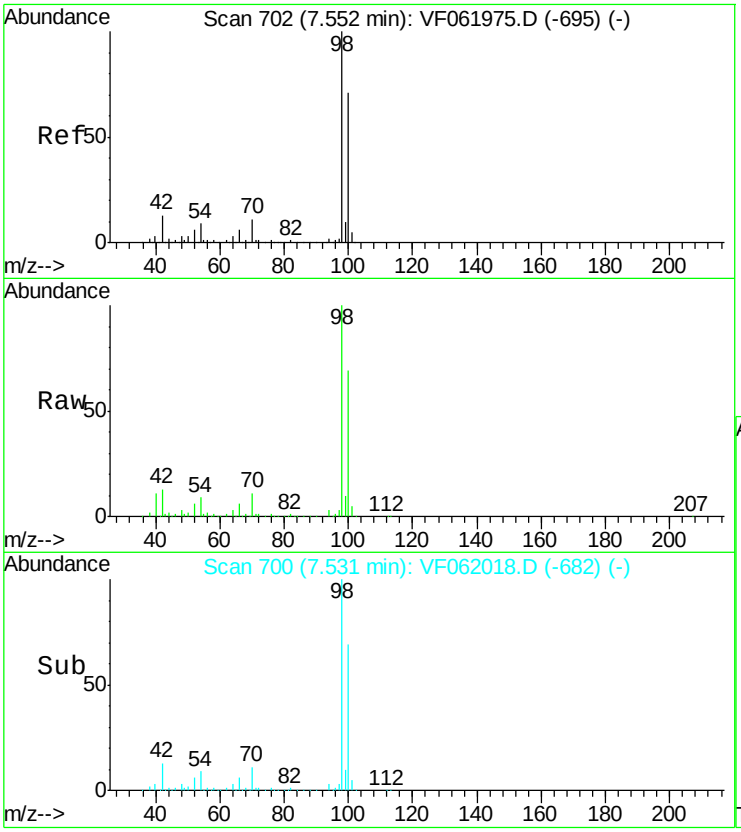




#49
1,4-Dioxane
Concen: 5.272 ug/l
RT: 6.77 min Scan# 623
Delta R.T. 0.07 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 88 Resp: 59

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 498.0 | 31.2 | 46.8# |
| 58 | 0.0 | 69.9 | 104.9# |



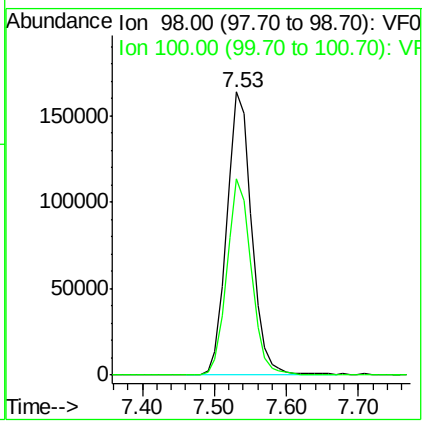


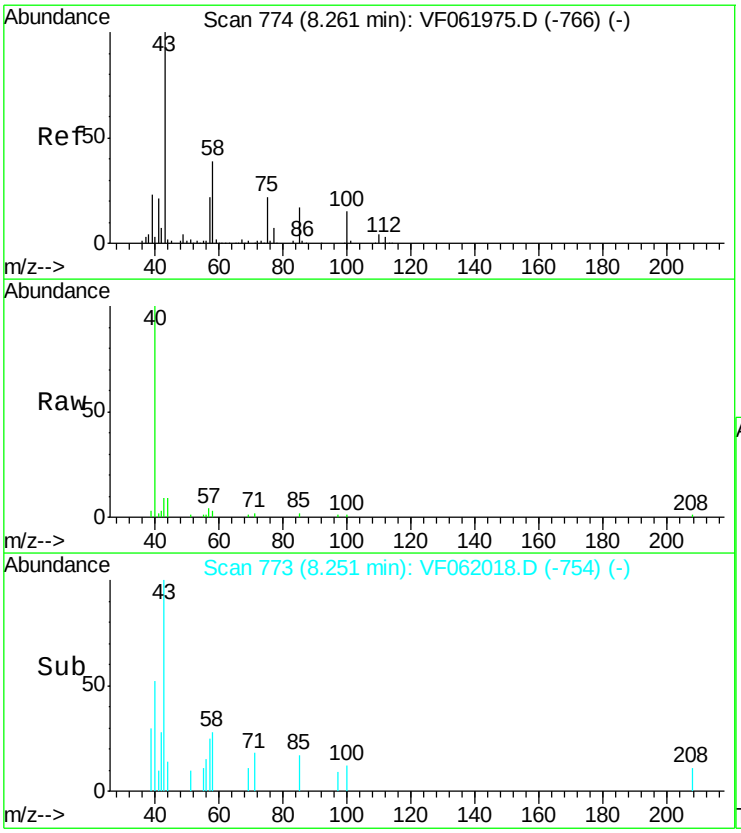

#50
Toluene-d8
Concen: 49.485 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :** MSVOA_F
**ClientSampleId :**

Tgt Ion: 98 Resp: 394167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 69.3 | 56.8 | 85.2 |

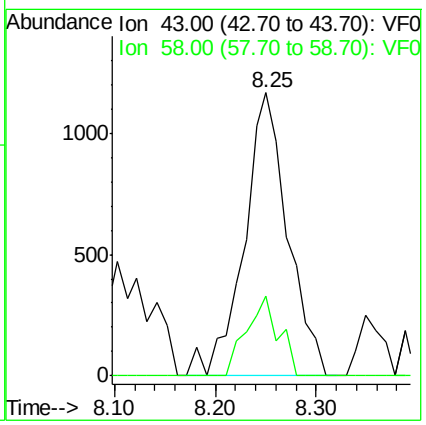


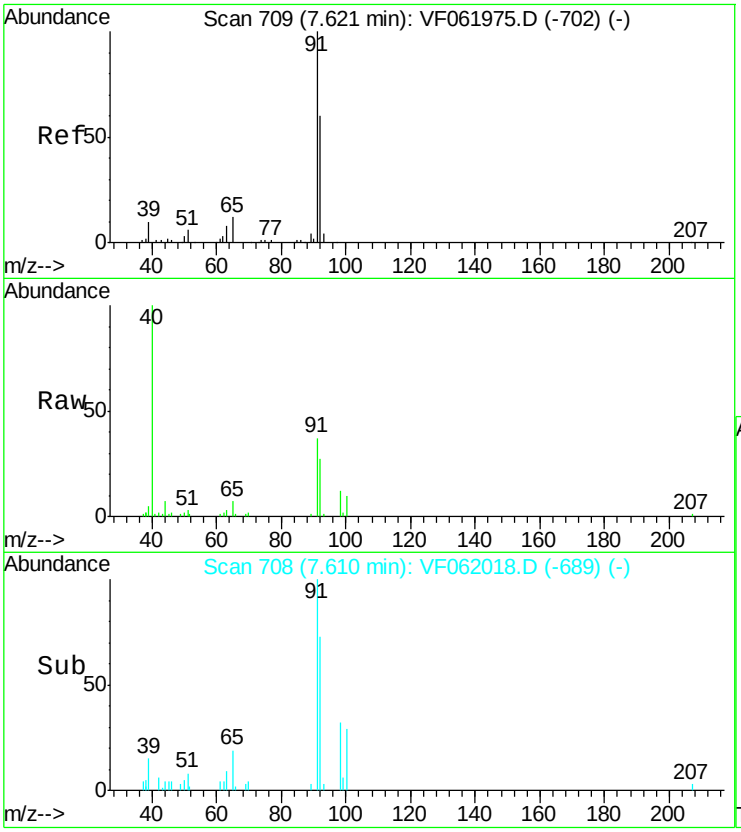




#51
4-Methyl-2-Pentanone
Concen: 2.548 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 43 Resp: 3522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.0 | 31.1 | 46.7# |



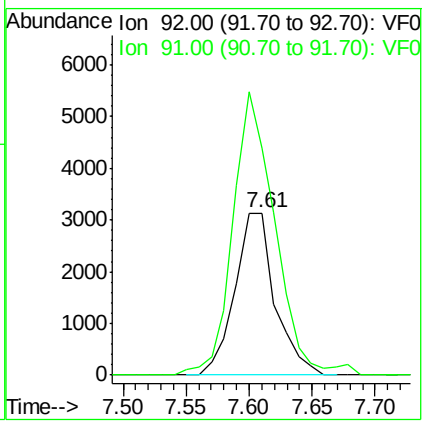


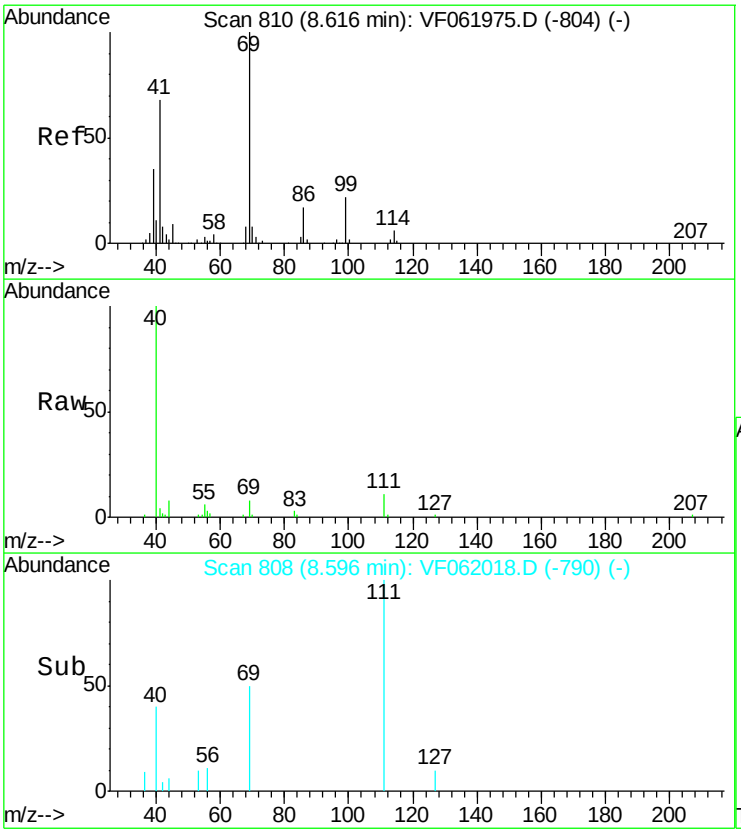

#52
Toluene
Concen: 1.168 ug/l
RT: 7.61 min Scan# 708
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion: 92 Resp: 6929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 140.0 | 134.0 | 201.0 |

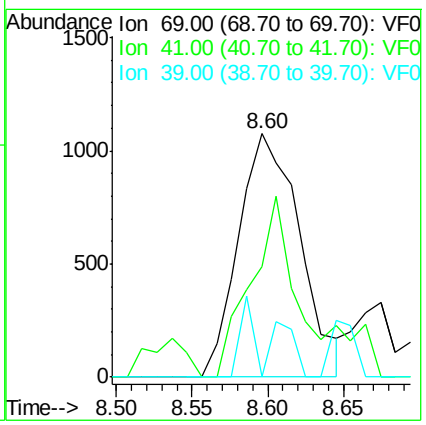


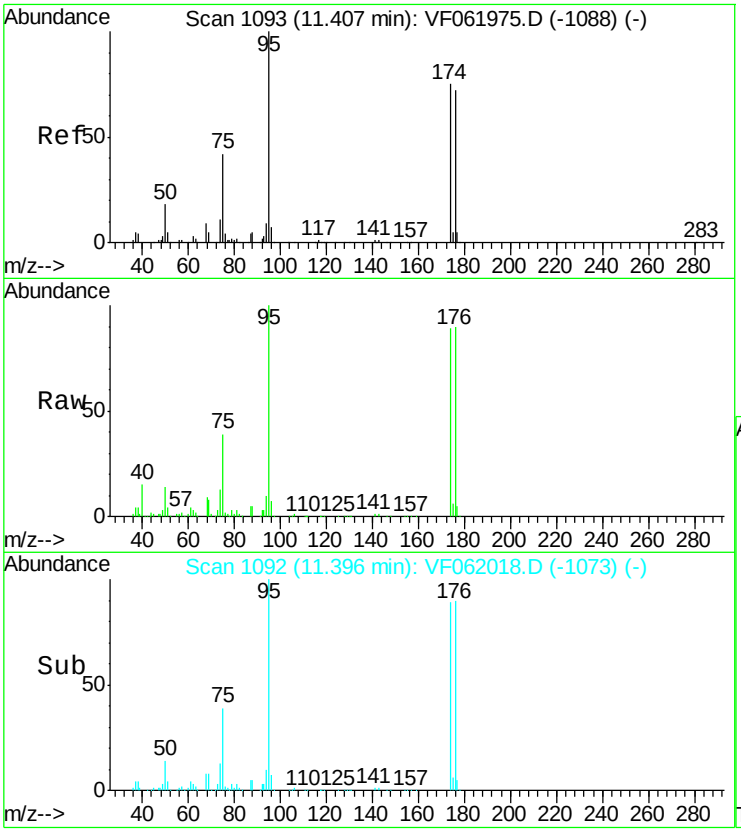




#56
Ethyl methacrylate
Concen: 1.616 ug/l
RT: 8.60 min Scan# 808
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 69 Resp: 3042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 45.4 | 54.7 | 82.1# |
| 39 | 0.0 | 27.9 | 41.9# |



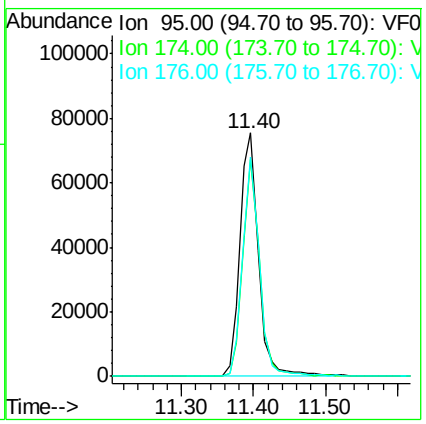


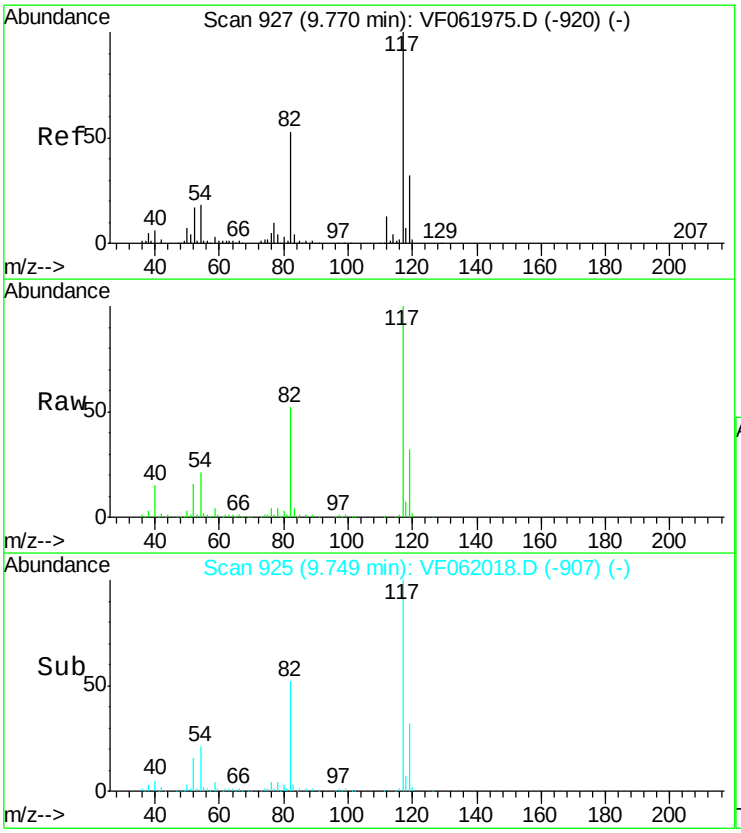

#62
4-Bromofluorobenzene
Concen: 43.041 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion: 95 Resp: 136198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 89.1 | 0.0 | 149.4 |
| 176 | 90.0 | 0.0 | 143.4 |

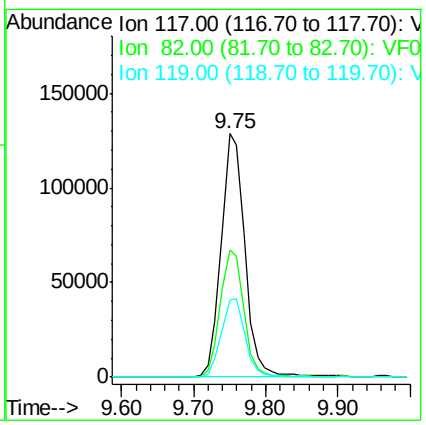


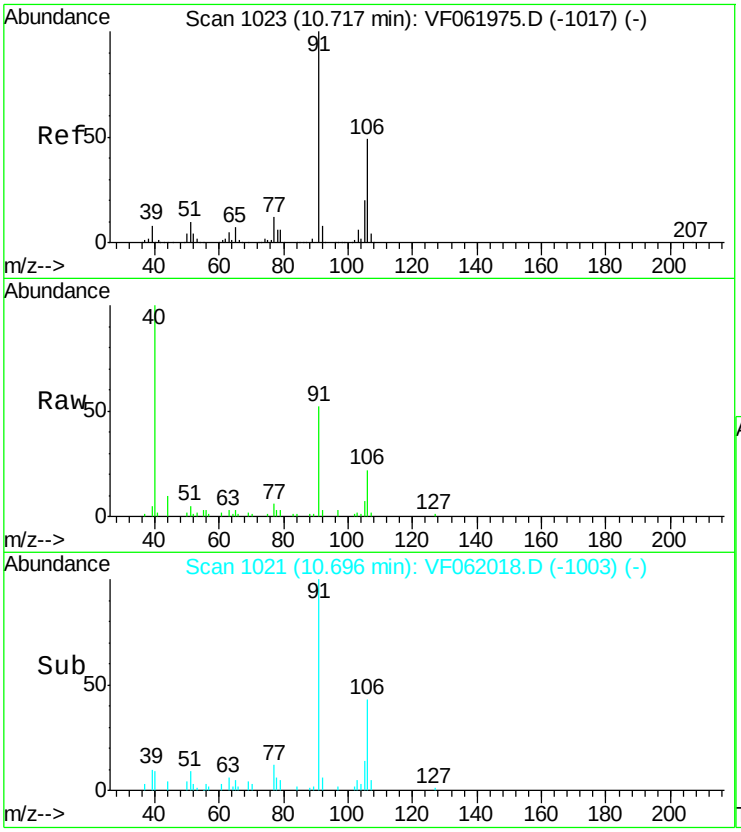




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion:117 Resp: 294313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.5 | 42.5 | 63.7 |
| 119 | 31.6 | 25.4 | 38.0 |



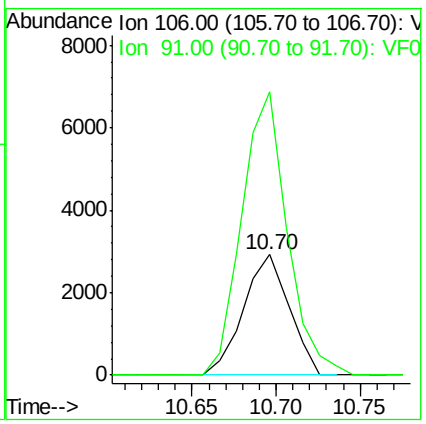


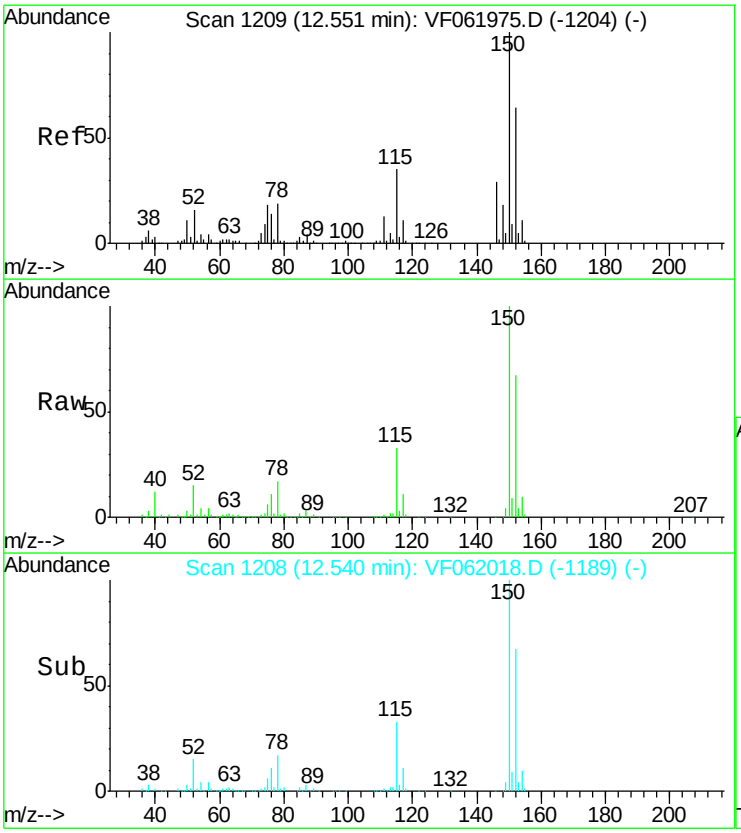

#69
o-Xylene
Concen: 1.460 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion:106 Resp: 5511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 234.3 | 102.3 | 306.8 |

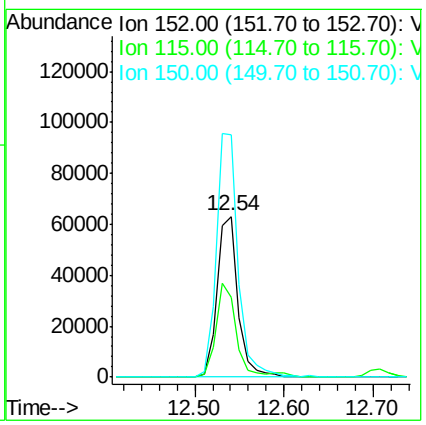


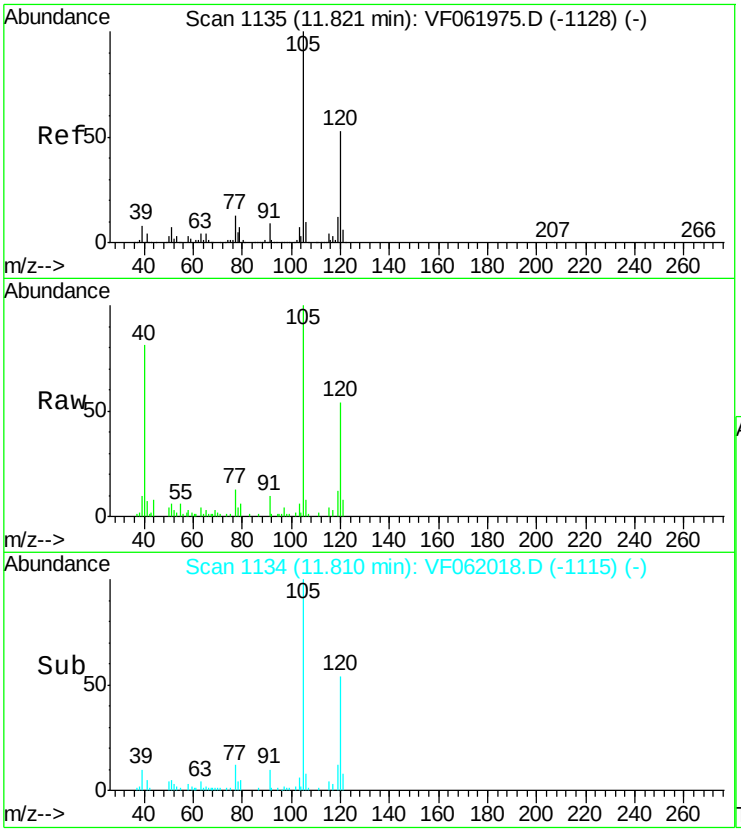




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion:152 Resp: 104779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 49.6 | 27.3 | 81.9 |
| 150 | 150.2 | 0.0 | 316.2 |



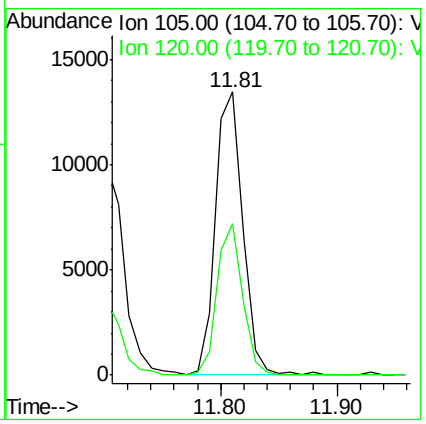


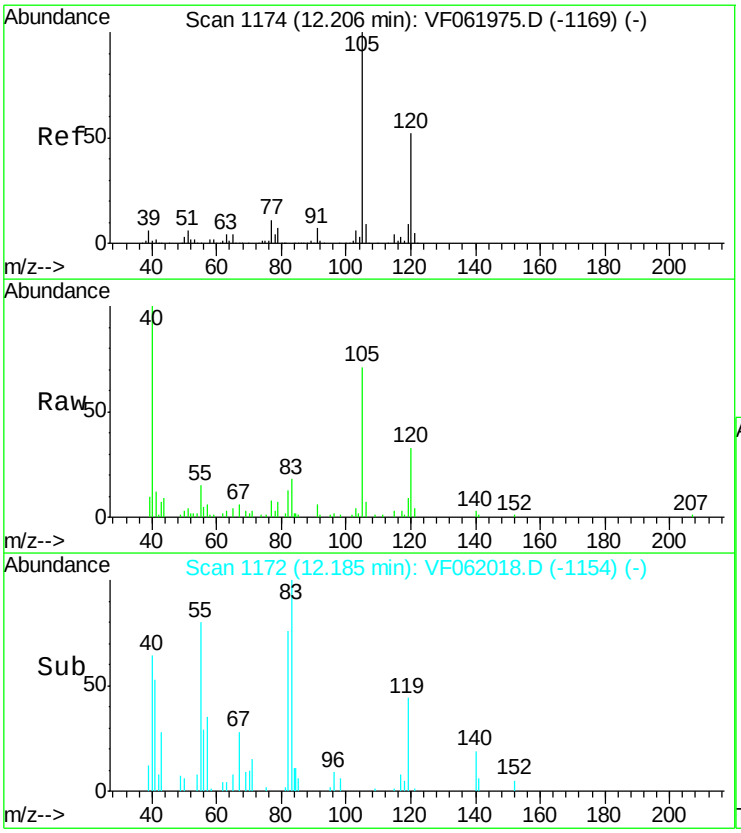

#80
1,3,5-Trimethylbenzene
Concen: 3.748 ug/l
RT: 11.81 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion:105 Resp: 21917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 53.6 | 26.6 | 79.7 |

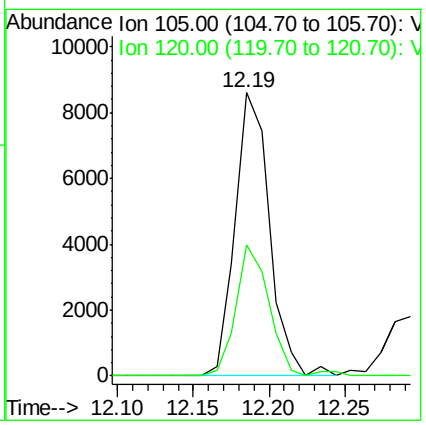


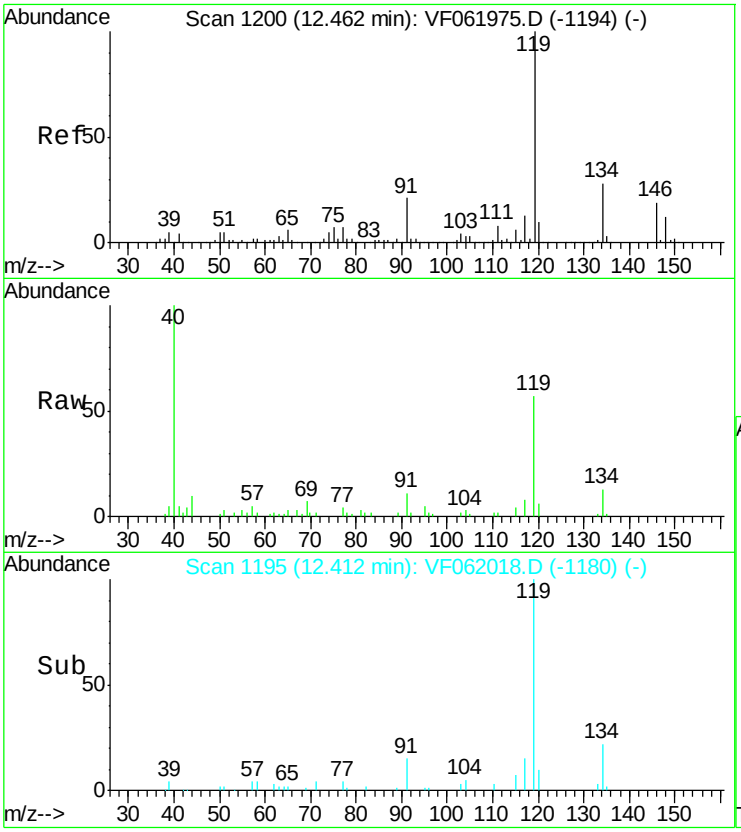




#84
1,2,4-Trimethylbenzene
Concen: 2.321 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion:105 Resp: 13594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 25.9 | 77.8 |



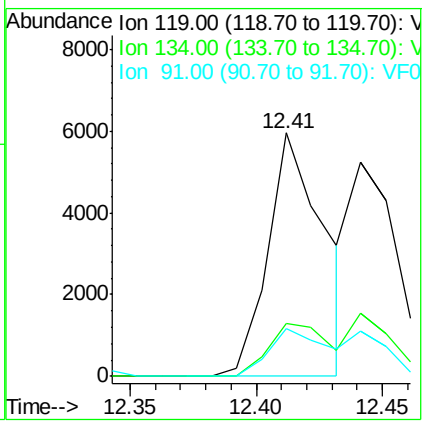


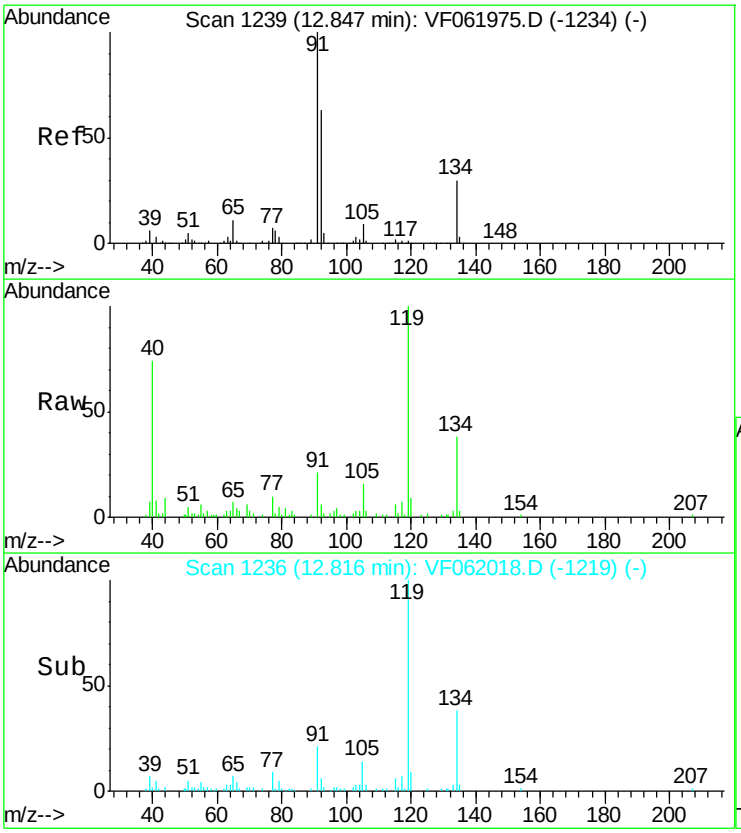

#86
p-Isopropyltoluene
Concen: 1.342 ug/l
RT: 12.41 min Scan# 1195
Delta R.T. -0.05 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :** MSVOA_F
**ClientSampleId :**

Tgt Ion:119 Resp: 9253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 21.8 | 13.9 | 41.7 |
| 91 | 19.8 | 10.4 | 31.1 |

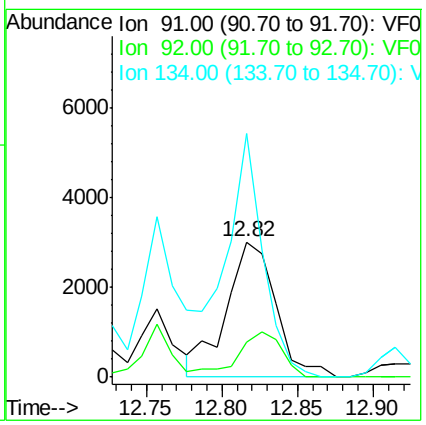


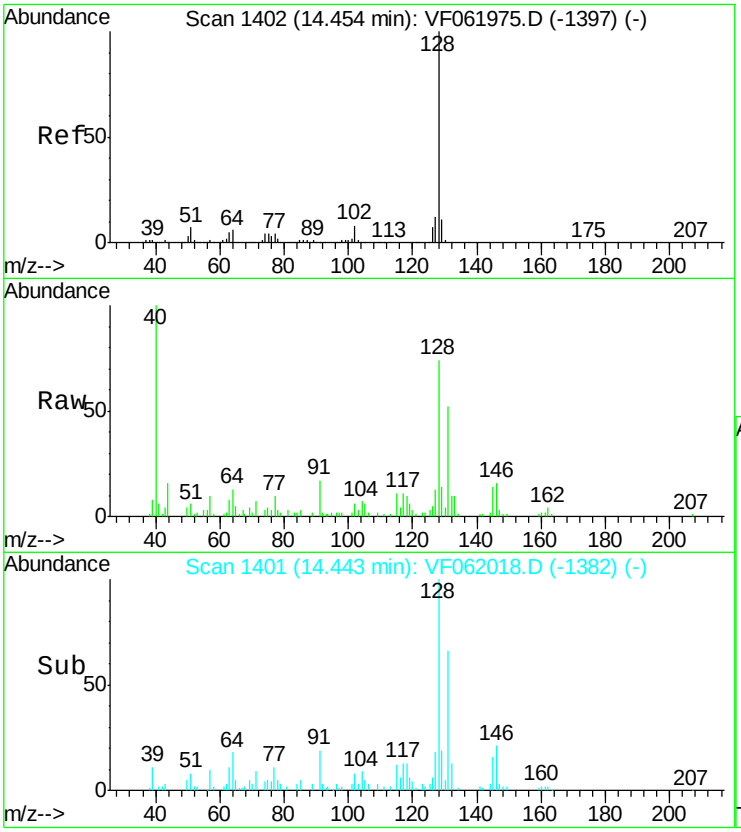




#89
n-Butylbenzene
Concen: 1.059 ug/l
RT: 12.82 min Scan# 1236
Delta R.T. -0.03 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

Tgt Ion: 91 Resp: 6861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 26.3 | 31.7 | 95.1# |
| 134 | 179.9 | 15.1 | 45.3# |






#95
Naphthalene
Concen: 2.947 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF062018.D
Acq: 19 Mar 2019 15:14

**Instrument :**
MSVOA_F
**ClientSampleId :**

Tgt Ion:128 Resp: 11262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 17.5 | 9.3 | 13.9# |
| 129 | 19.3 | 9.1 | 13.7# |