Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD120618\
Data File : VD060505.D
Acq On : 6 Dec 2018 15:08
Operator : VA/AP
Sample : J6234-01
Misc : 5.11g/5ml/MSVOA_D/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :**

Quant Time: Dec 07 03:36:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 6.40 | 168 | 46662 | 50.00 | ug/l | -0.02 |
| 34) 1,4-Difluorobenzene | 7.44 | 114 | 76387 | 50.00 | ug/l | -0.02 |
| 63) Chlorobenzene-d5 | 11.28 | 117 | 66666 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152 | 28912 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 6.78 | 65 | 27446 | 82.98 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 165.96% | | | |
| 35) Dibromofluoromethane | 6.33 | 113 | 28101 | 50.08 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 100.16% | | | |
| 50) Toluene-d8 | 9.45 | 98 | 61413 | 37.82 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 75.64% | | | |
| 62) 4-Bromofluorobenzene | 12.42 | 95 | 24408 | 42.01 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 84.02% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Bromomethane | 2.21 | 94 | 1206 | 12.599 | ug/l | 82 |
| 10) Methyl Iodide | 3.30 | 142 | 808 | 2.411 | ug/l # | 35 |
| 16) Acetone | 3.17 | 43 | 16391 | 309.179 | ug/l # | 89 |
| 18) Methyl Acetate | 3.58 | 43 | 1805 | 14.326 | ug/l # | 64 |
| 20) Methylene Chloride | 3.73 | 84 | 7448 | 11.892 | ug/l | 93 |
| 25) 2-Butanone | 5.64 | 43 | 3012 | 28.878 | ug/l # | 59 |
| 26) 2,2-Dichloropropane | 5.65 | 77 | 874 | 1.371 | ug/l # | 50 |
| 29) Tetrahydrofuran | 5.95 | 42 | 224 | 3.793 | ug/l # | 40 |
| 31) Cyclohexane | 6.39 | 56 | 308 | Below Cal | # | 28 |
| 36) 1,1-Dichloropropene | 6.40 | 75 | 3202 | 4.288 | ug/l # | 41 |
| 37) Ethyl Acetate | 5.64 | 43 | 3012 | 9.301 | ug/l # | 68 |
| 38) Carbon Tetrachloride | 6.40 | 117 | 3133 | 4.674 | ug/l # | 12 |
| 51) 4-Methyl-2-Pentanone | 9.44 | 43 | 386 | 1.552 | ug/l # | 42 |
| 55) 1,1,2-Trichloroethane | 10.08 | 97 | 1690 | 5.088 | ug/l # | 16 |
| 59) 2-Hexanone | 10.44 | 43 | 294 | 1.692 | ug/l # | 30 |
| 67) Ethyl Benzene | 11.42 | 91 | 3060 | 1.272 | ug/l | 96 |
| 68) m/p-Xylenes | 11.55 | 106 | 8207 | 9.221 | ug/l | 96 |
| 69) o-Xylene | 11.92 | 106 | 4028 | 4.749 | ug/l | 85 |
| 81) trans-1,4-Dichloro-2-buten | 12.42 | 75 | 10479 | 114.692 | ug/l # | 14 |
| 88) 1,4-Dichlorobenzene | 13.39 | 146 | 1150 | 1.204 | ug/l # | 56 |
| 93) 1,2,4-Trichlorobenzene | 14.78 | 180 | 717 | 1.153 | ug/l # | 58 |
| 95) Naphthalene | 14.97 | 128 | 1570 | 2.122 | ug/l # | 70 |

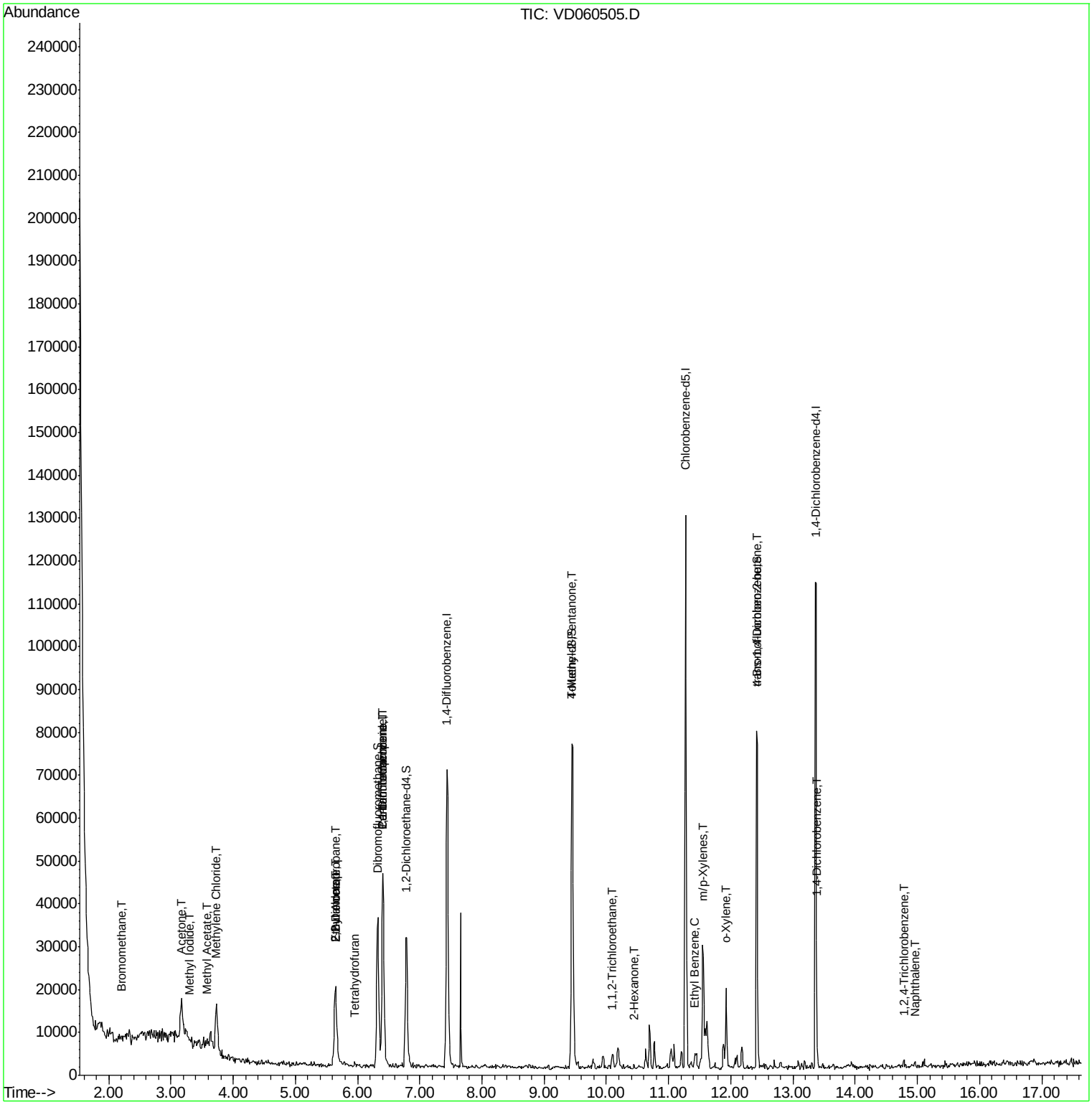
(#) = qualifier out of range (m) = manual integration (+) = signals summed

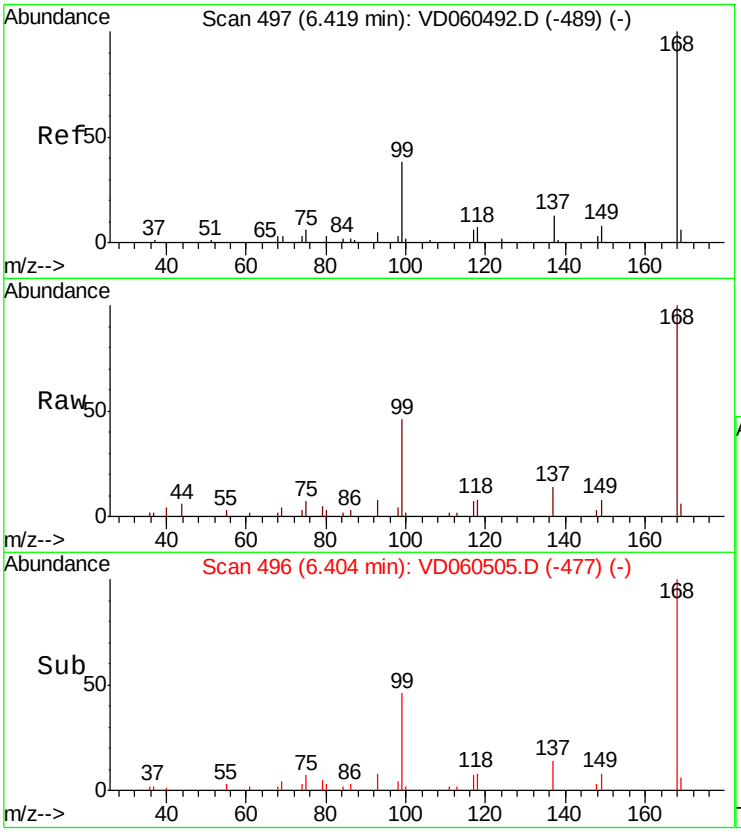
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120618\
Data File : VD060505.D
Acq On : 6 Dec 2018 15:08
Operator : VA/AP
Sample : J6234-01
Misc : 5.11g/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**

Quant Time: Dec 07 03:36:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration



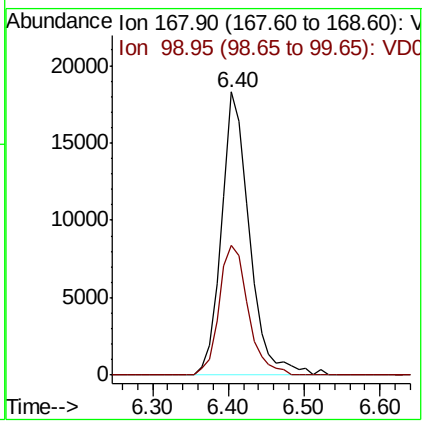


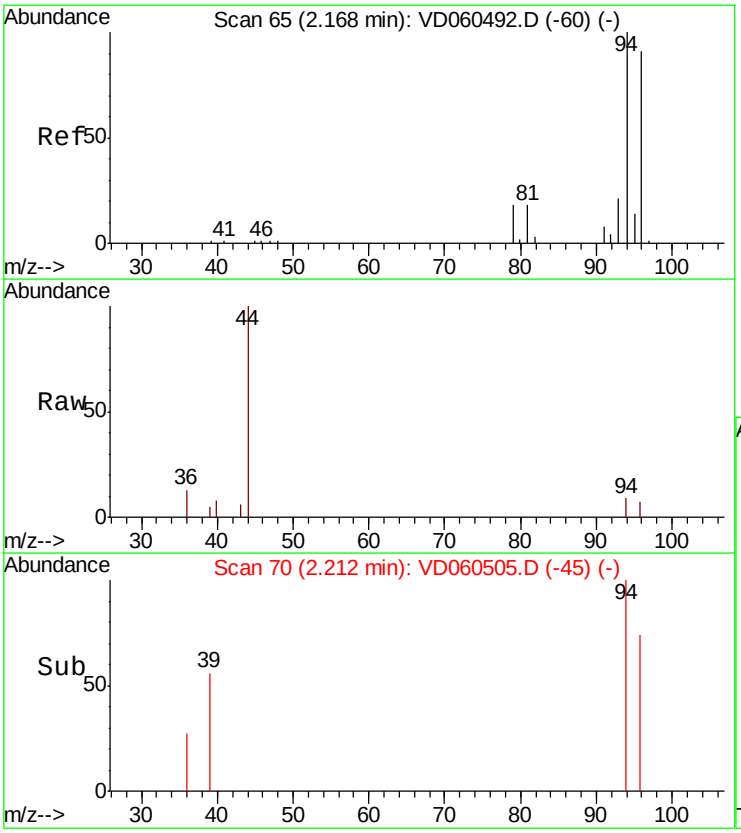

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 6.40 min Scan# 496
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion:168 Resp: 46662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 45.8 | 35.6 | 53.4 |

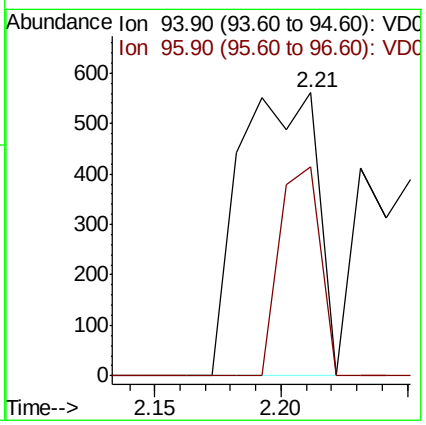


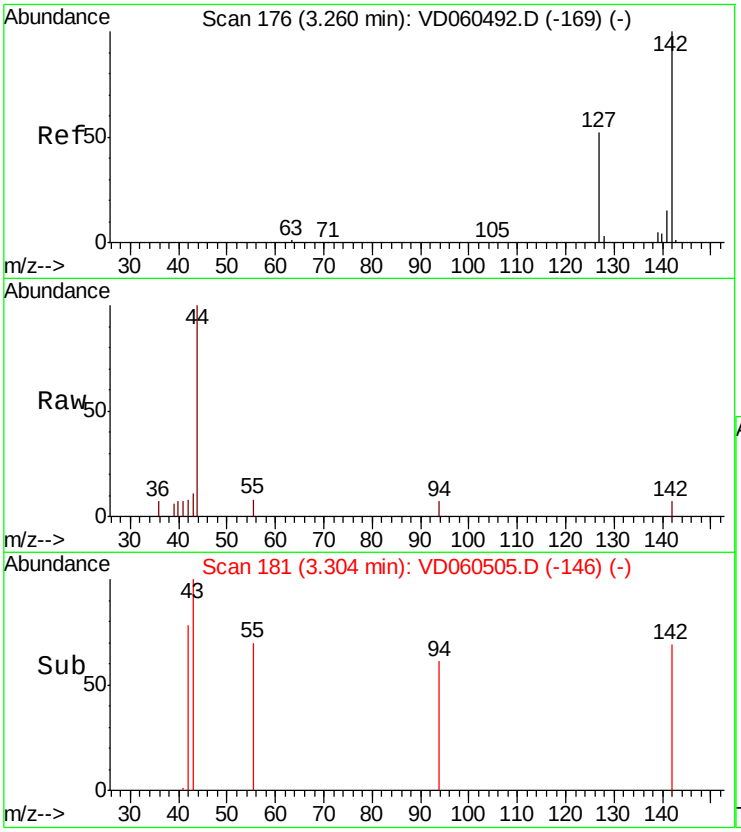




#5
Bromomethane
Concen: 12.599 ug/l
RT: 2.21 min Scan# 70
Delta R.T. 0.04 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 94 Resp: 1206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 73.8 | 72.6 | 108.8 |



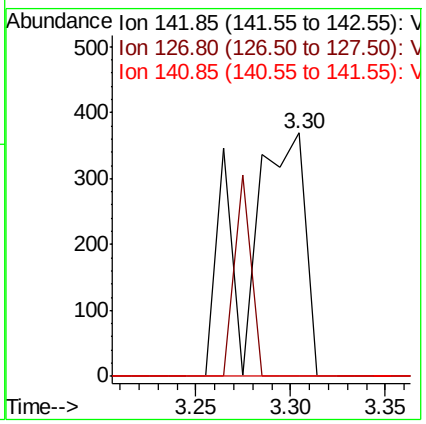


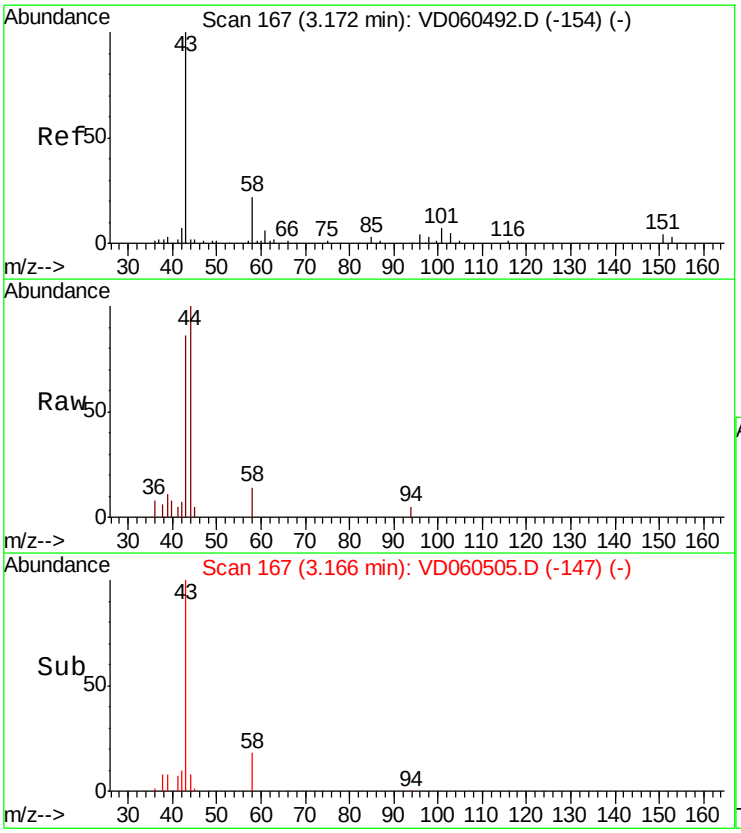

#10
Methyl Iodide
Concen: 2.411 ug/l
RT: 3.30 min Scan# 181
Delta R.T. 0.04 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion:142 Resp: 808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 0.0 | 41.2 | 61.8# |
| 141 | 0.0 | 11.9 | 17.9# |

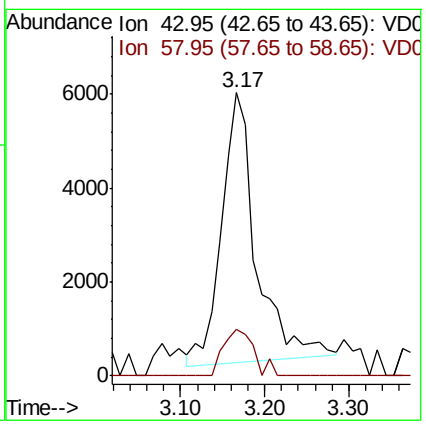


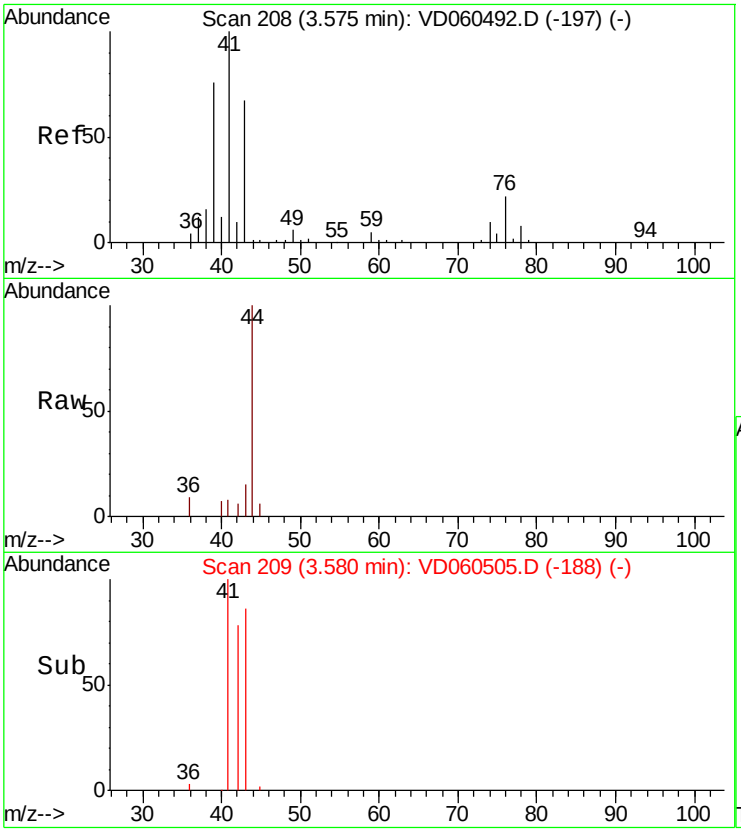




#16
Acetone
Concen: 309.179 ug/l
RT: 3.17 min Scan# 167
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 43 Resp: 16391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 16.5 | 17.3 | 25.9# |



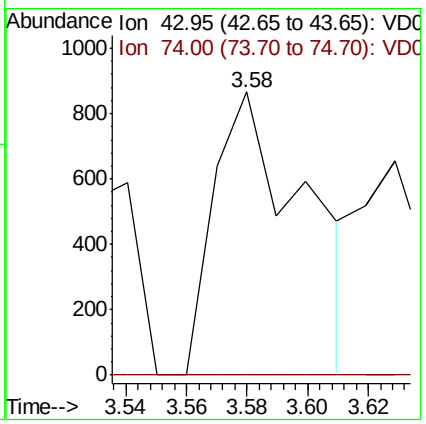


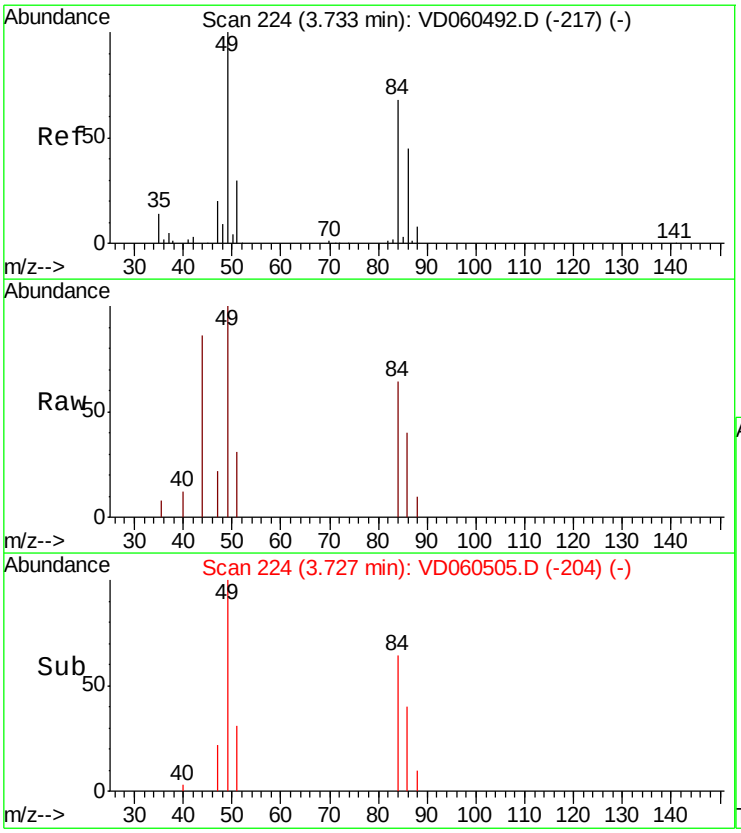

#18
Methyl Acetate
Concen: 14.326 ug/l
RT: 3.58 min Scan# 209
Delta R.T. 0.00 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :** MSVOA_D
**ClientSampleId :**

Tgt Ion: 43 Resp: 1805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 0.0 | 12.0 | 18.0# |

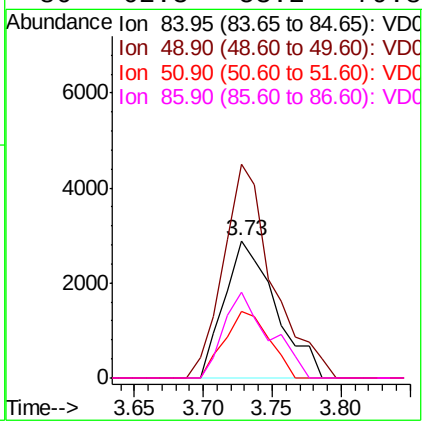


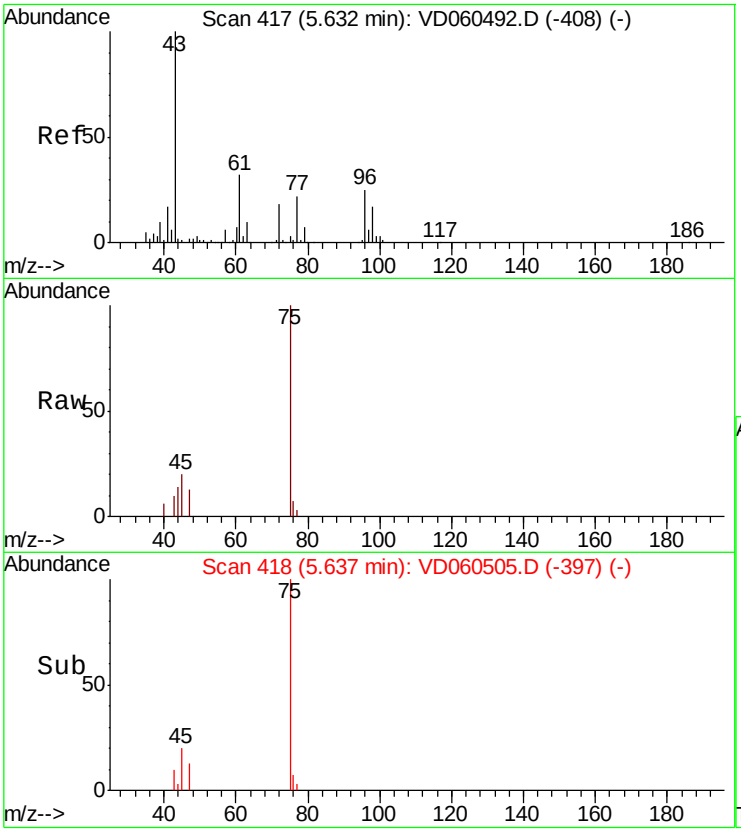




#20
Methylene Chloride
Concen: 11.892 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 84 Resp: 7448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.4 | 117.2 | 175.8 |
| 51 | 48.7 | 35.3 | 52.9 |
| 86 | 62.3 | 53.2 | 79.8 |



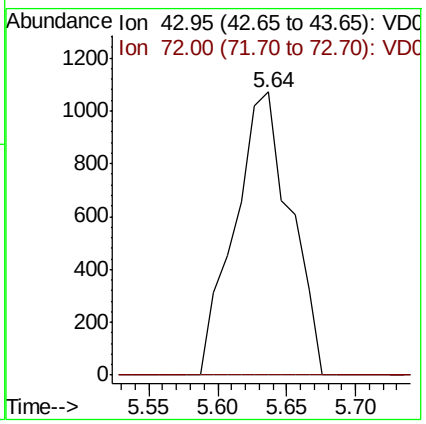


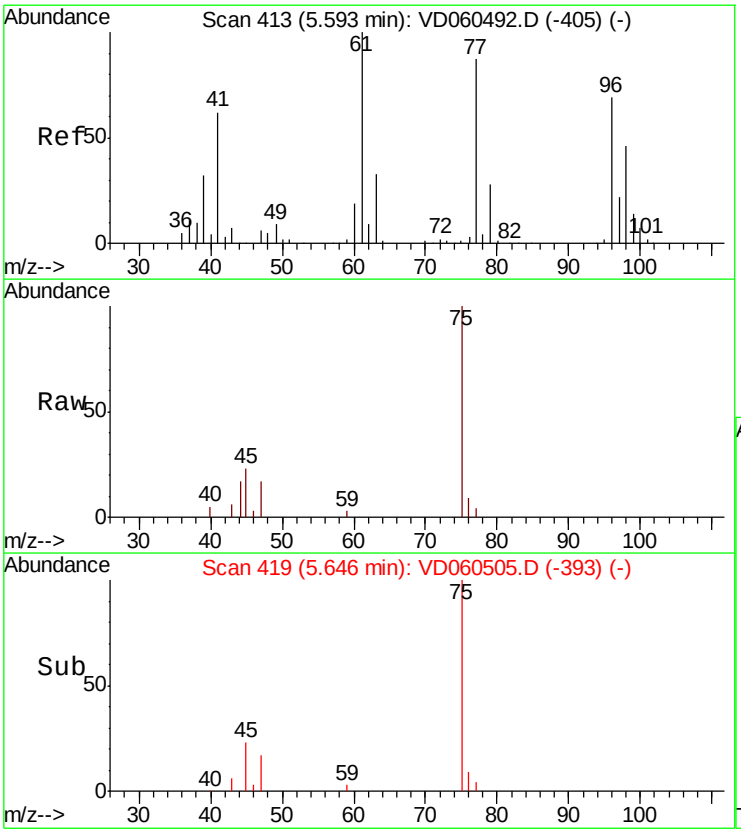

#25
2-Butanone
Concen: 28.878 ug/l
RT: 5.64 min Scan# 418
Delta R.T. 0.00 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :** MSVOA_D
**ClientSampleId :**

Tgt Ion: 43 Resp: 3012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 0.0 | 14.6 | 21.8# |

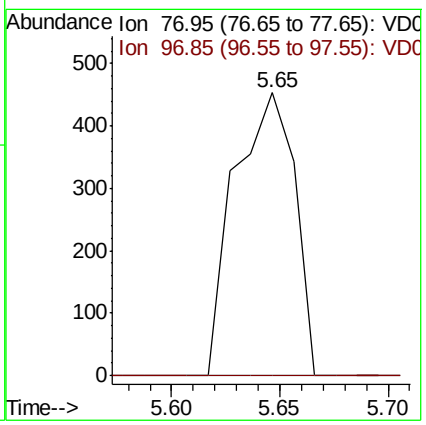


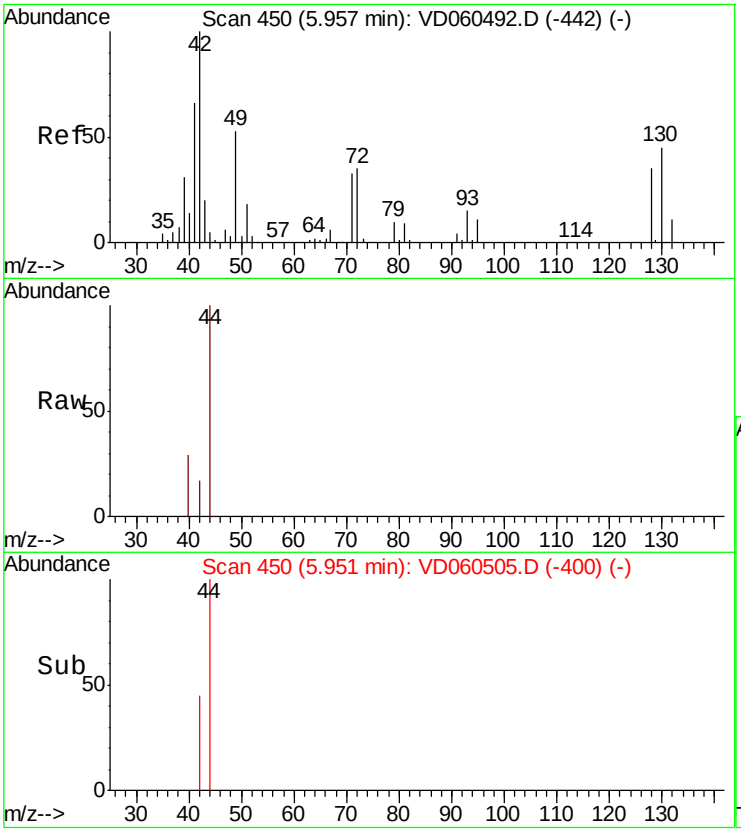




#26
2,2-Dichloropropane
Concen: 1.371 ug/l
RT: 5.65 min Scan# 419
Delta R.T. 0.05 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 77 Resp: 874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 0.0 | 12.7 | 38.0# |



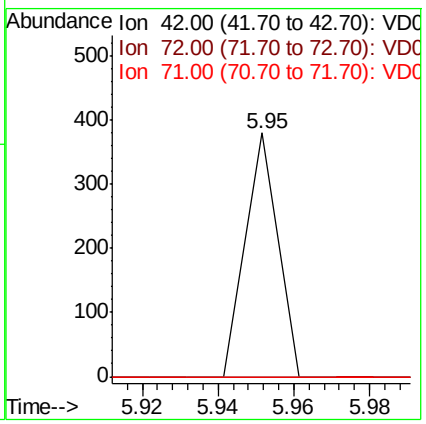


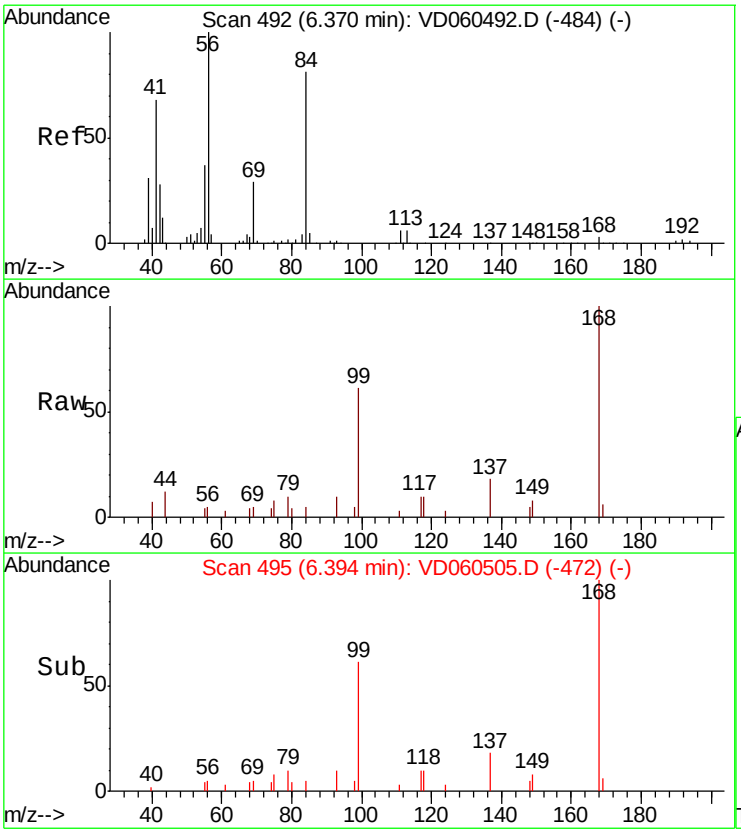

#29
Tetrahydrofuran
Concen: 3.793 ug/l
RT: 5.95 min Scan# 450
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion: 42 Resp: 224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 28.0 | 42.0# |
| 71 | 0.0 | 27.2 | 40.8# |

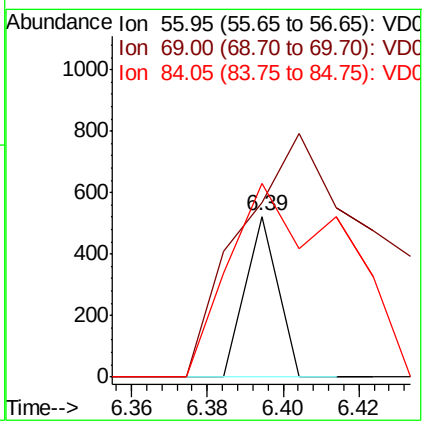


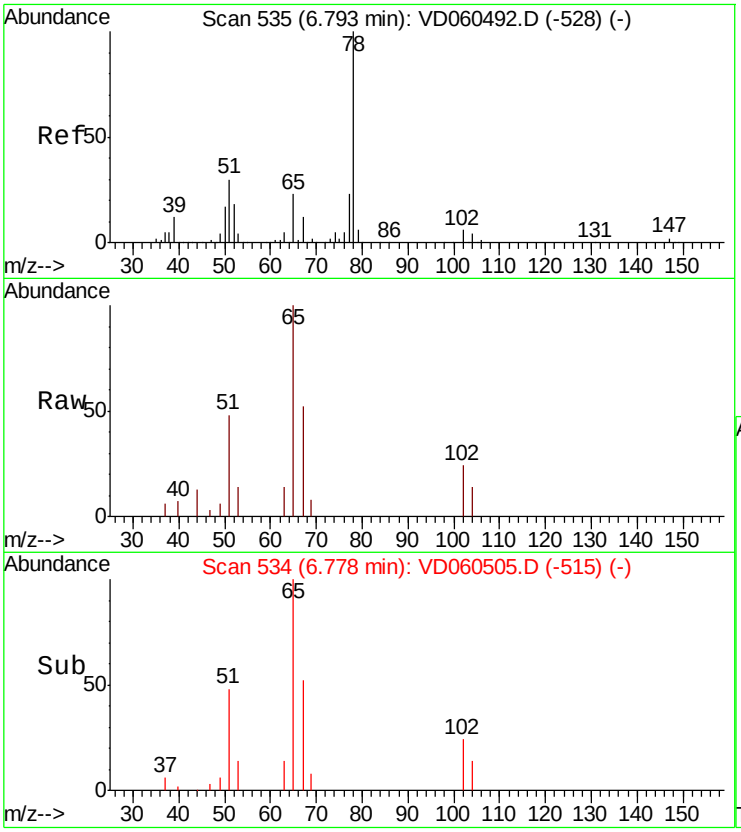




#31
Cyclohexane
Concen: Below Cal
RT: 6.39 min Scan# 495
Delta R.T. 0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 56 Resp: 308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 108.6 | 22.8 | 34.2# |
| 84 | 120.5 | 65.1 | 97.7# |



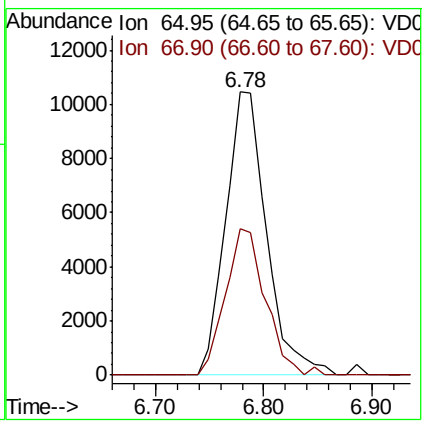


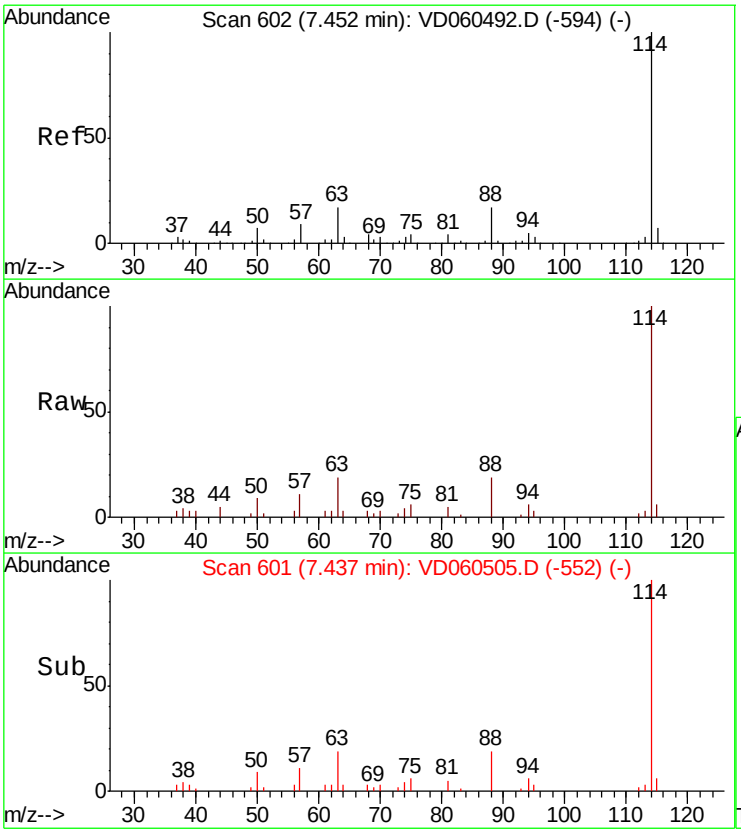

#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.78 min Scan# 534
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :** MSVOA_D
**ClientSampleId :**

Tgt Ion: 65 Resp: 27446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 106.8 |

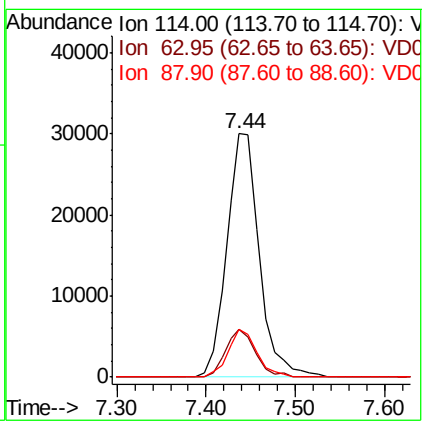


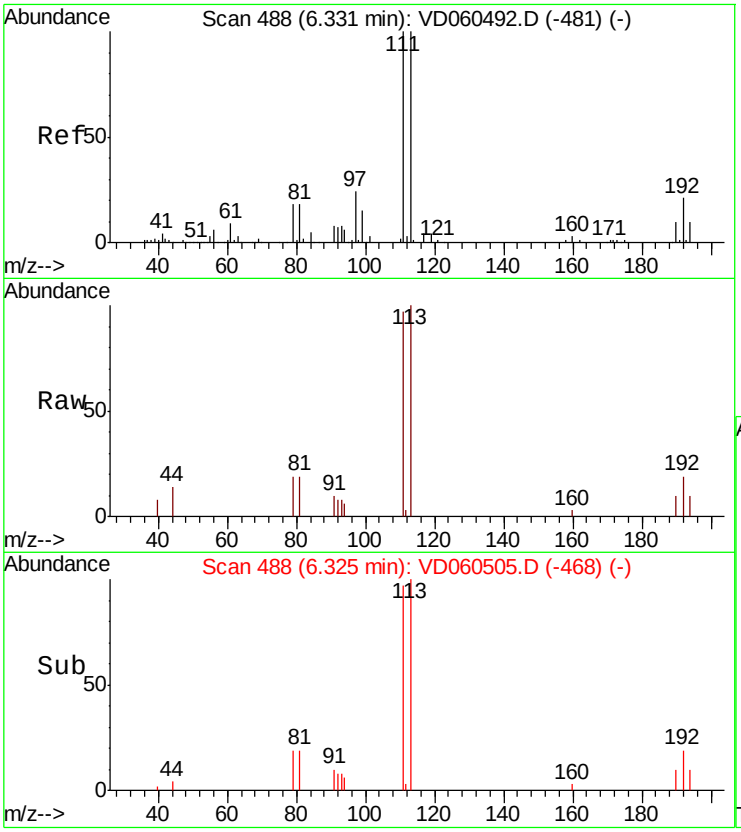




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.44 min Scan# 601
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:114 Resp: 76387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 34.2 |
| 88 | 19.5 | 0.0 | 35.0 |



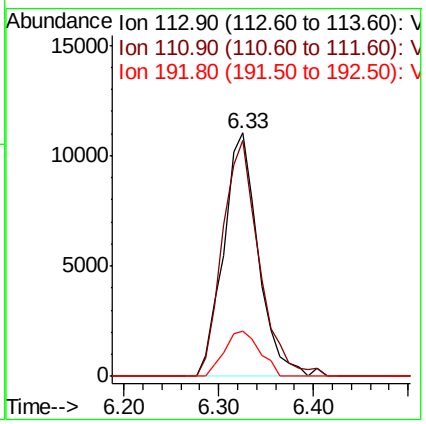


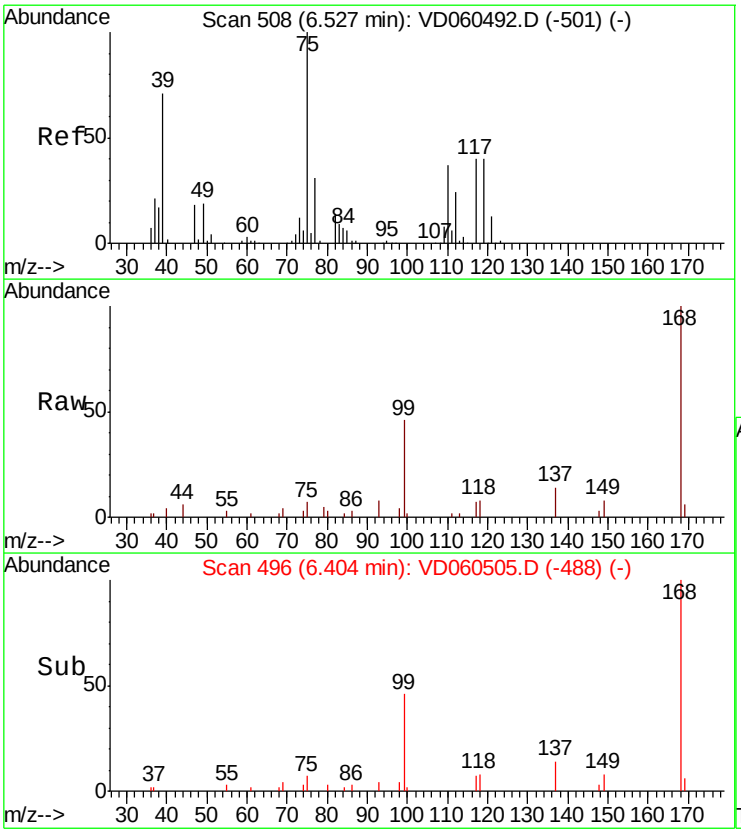

#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 488
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion:113 Resp: 28101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 97.1 | 80.2 | 120.4 |
| 192 | 18.8 | 16.6 | 24.8 |

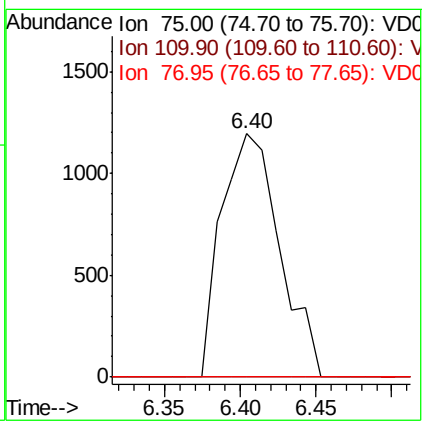


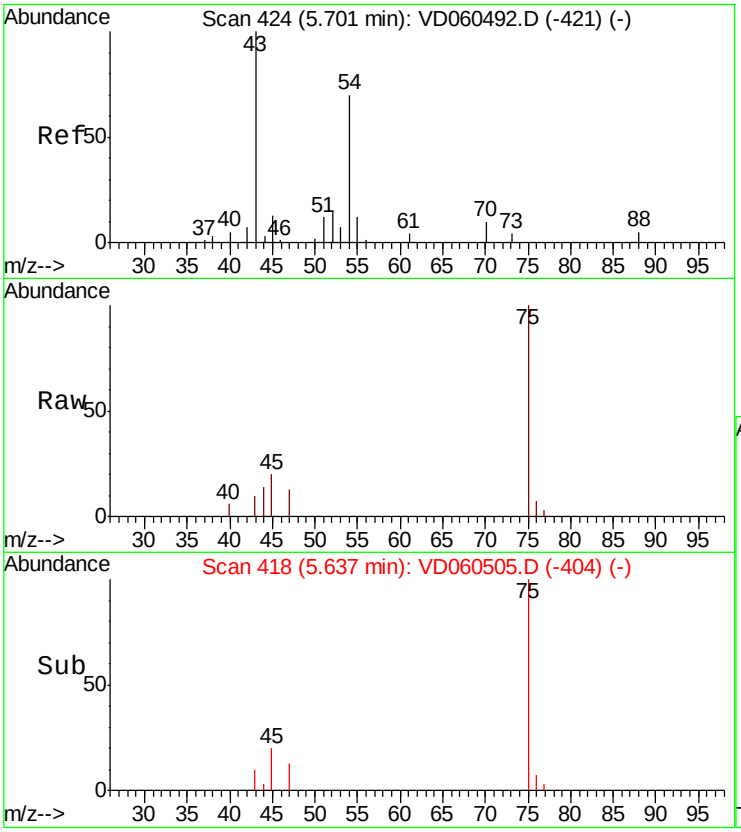




#36
1,1-Dichloropropene
Concen: 4.288 ug/l
RT: 6.40 min Scan# 496
Delta R.T. -0.12 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 75 Resp: 3202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 0.0 | 18.3 | 54.8# |
| 77 | 0.0 | 24.6 | 37.0# |



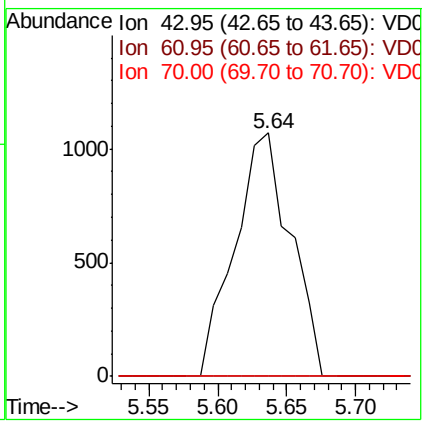


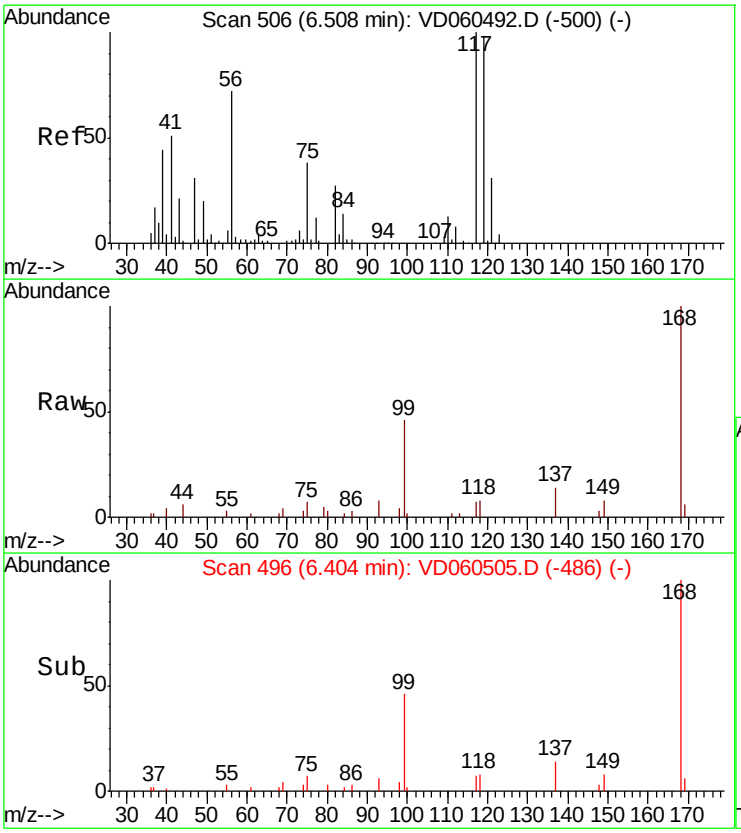

#37
Ethyl Acetate
Concen: 9.301 ug/l
RT: 5.64 min Scan# 418
Delta R.T. -0.06 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion: 43 Resp: 3012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 12.4 | 18.6# |
| 70 | 0.0 | 5.4 | 8.0# |

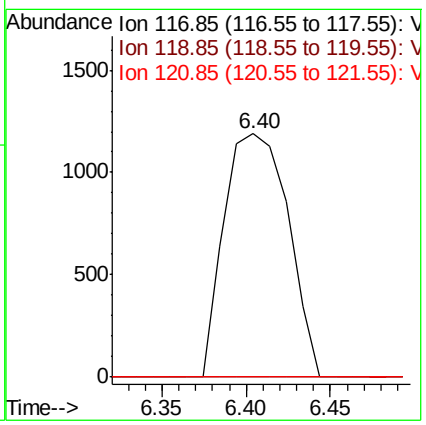


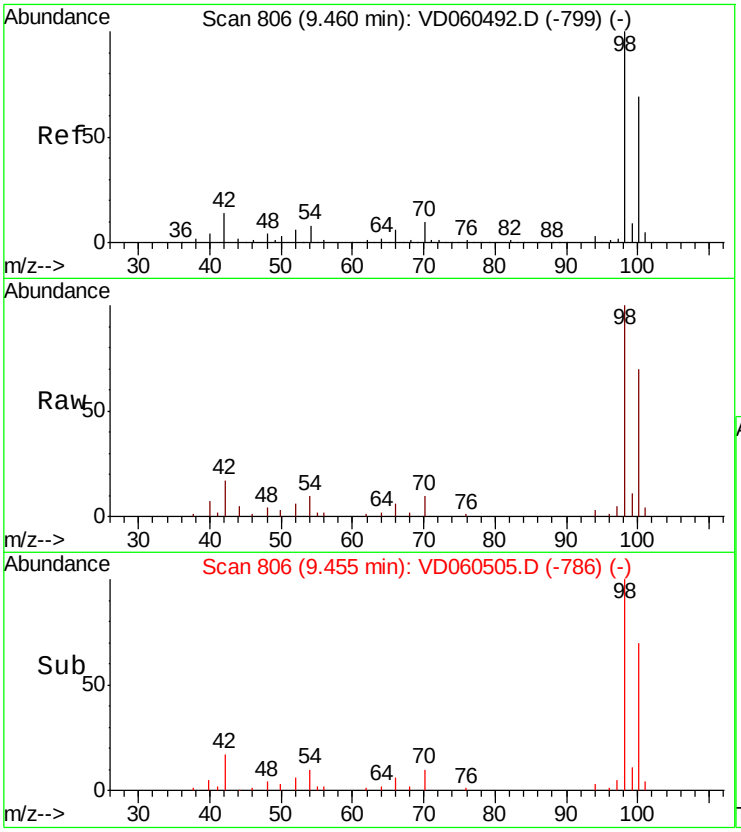




#38
Carbon Tetrachloride
Concen: 4.674 ug/l
RT: 6.40 min Scan# 496
Delta R.T. -0.10 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:117 Resp: 3133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 0.0 | 76.8 | 115.2# |
| 121 | 0.0 | 24.4 | 36.6# |



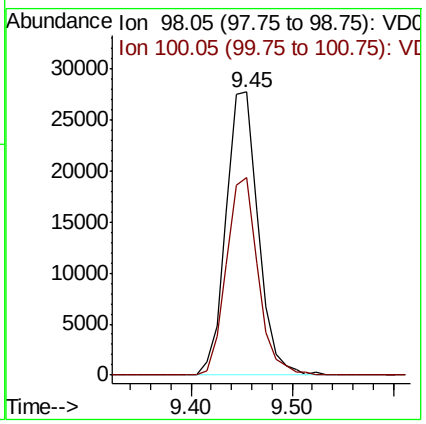


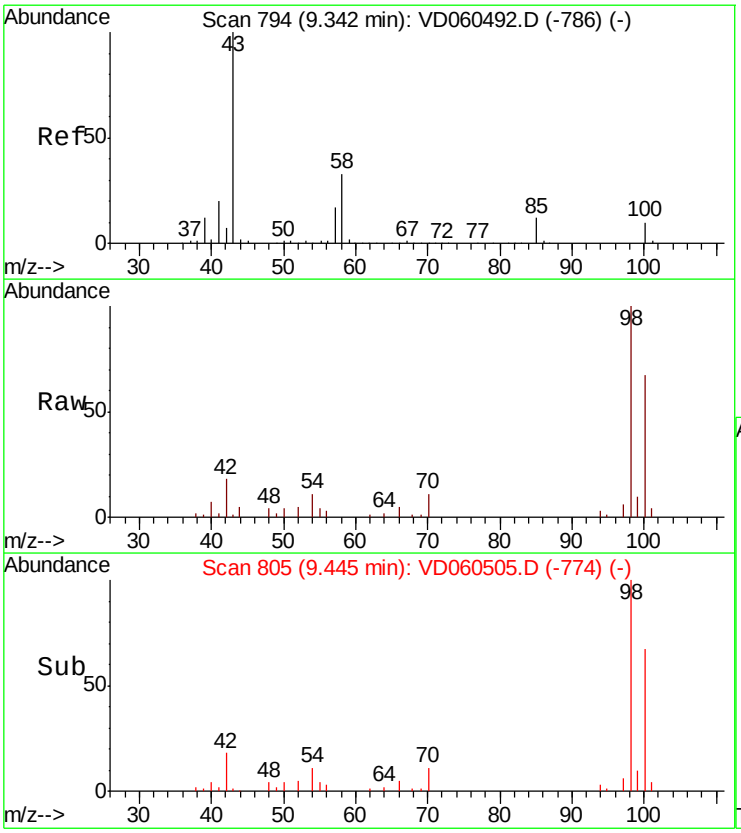

#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion: 98 Resp: 61413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 69.7 | 55.7 | 83.5 |

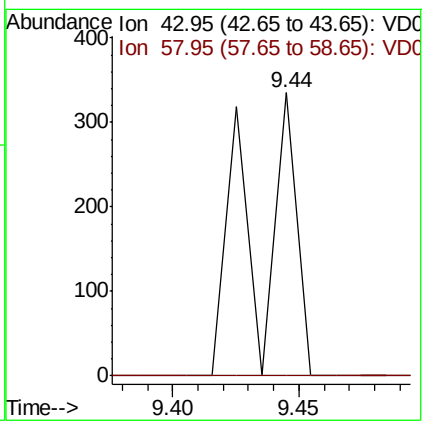


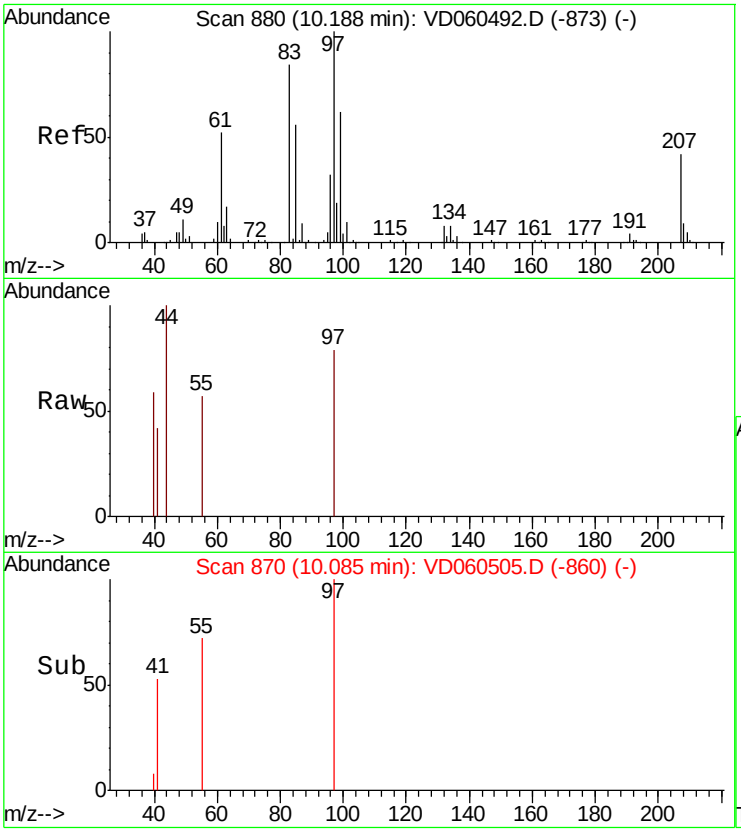




#51
4-Methyl-2-Pentanone
Concen: 1.552 ug/l
RT: 9.44 min Scan# 805
Delta R.T. 0.10 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 43 Resp: 386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 26.3 | 39.5# |



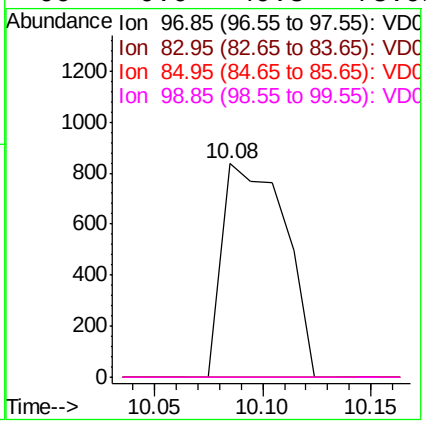


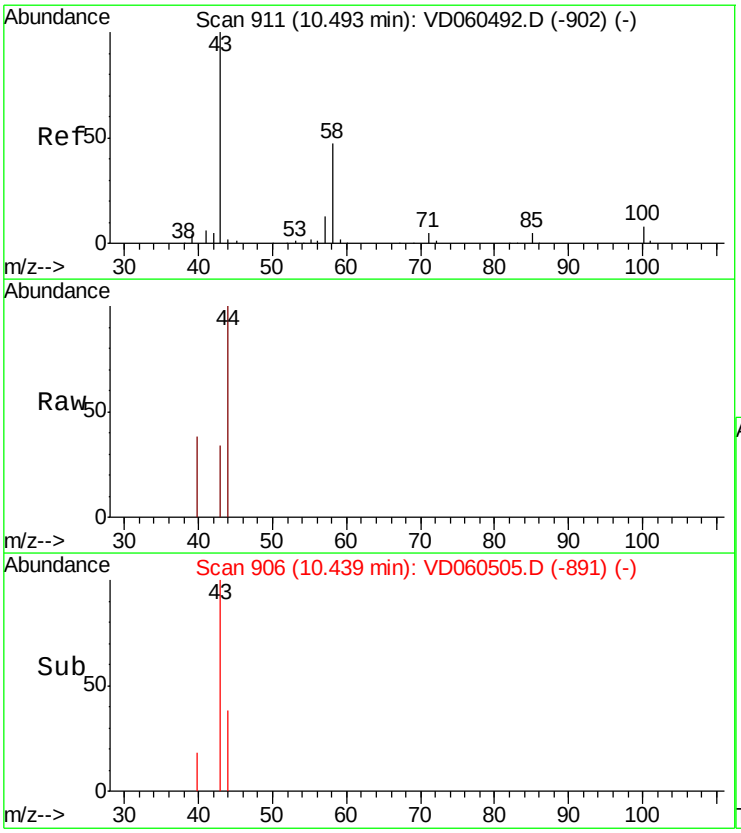

#55
1,1,2-Trichloroethane
Concen: 5.088 ug/l
RT: 10.08 min Scan# 870
Delta R.T. -0.10 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :** MSVOA_D
**ClientSampleId :**

Tgt Ion: 97 Resp: 1690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 0.0 | 67.2 | 100.8# |
| 85 | 0.0 | 44.5 | 66.7# |
| 99 | 0.0 | 49.3 | 73.9# |

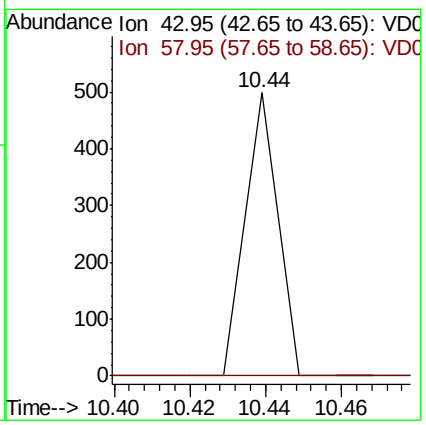


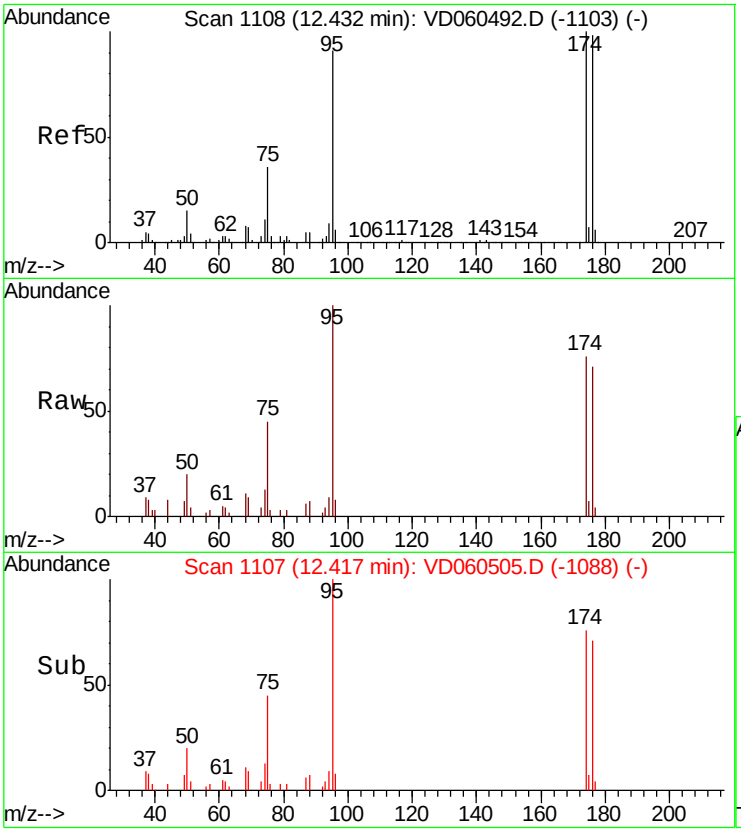




#59
2-Hexanone
Concen: 1.692 ug/l
RT: 10.44 min Scan# 906
Delta R.T. -0.05 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 43 Resp: 294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 23.4 | 70.2# |



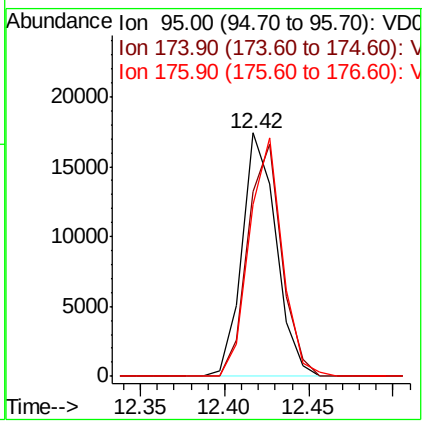


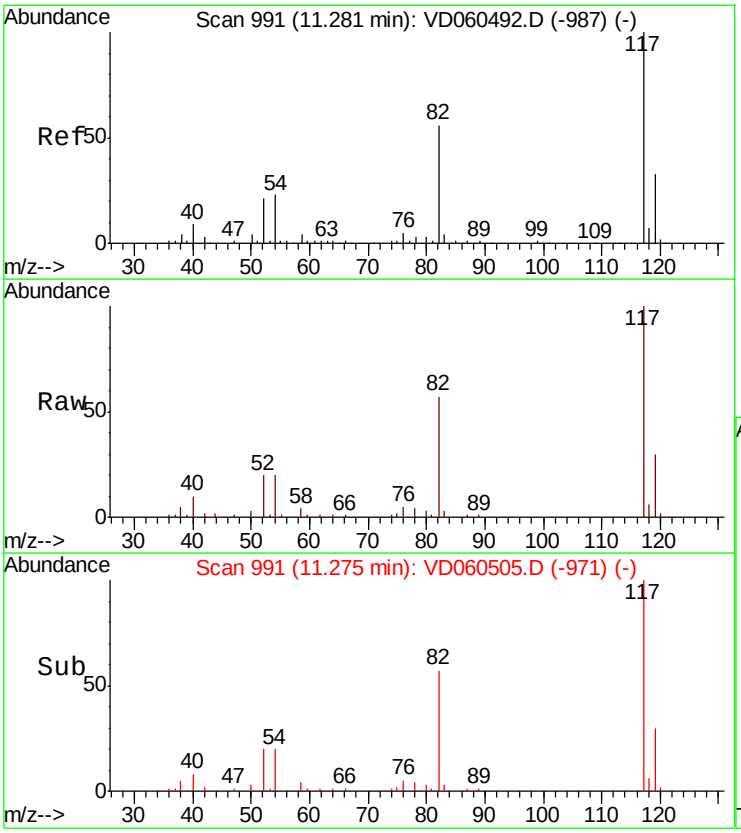

#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1107
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :** MSVOA_D
**ClientSampleId :**

Tgt Ion: 95 Resp: 24408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.9 | 0.0 | 219.4 |
| 176 | 70.7 | 0.0 | 214.6 |

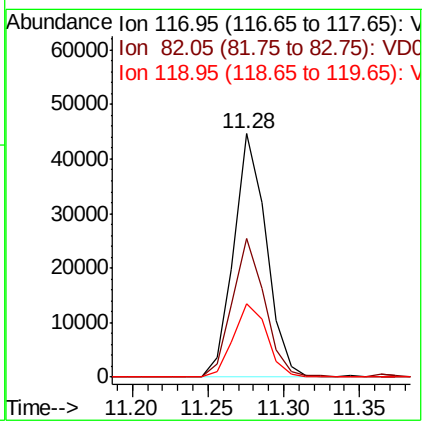


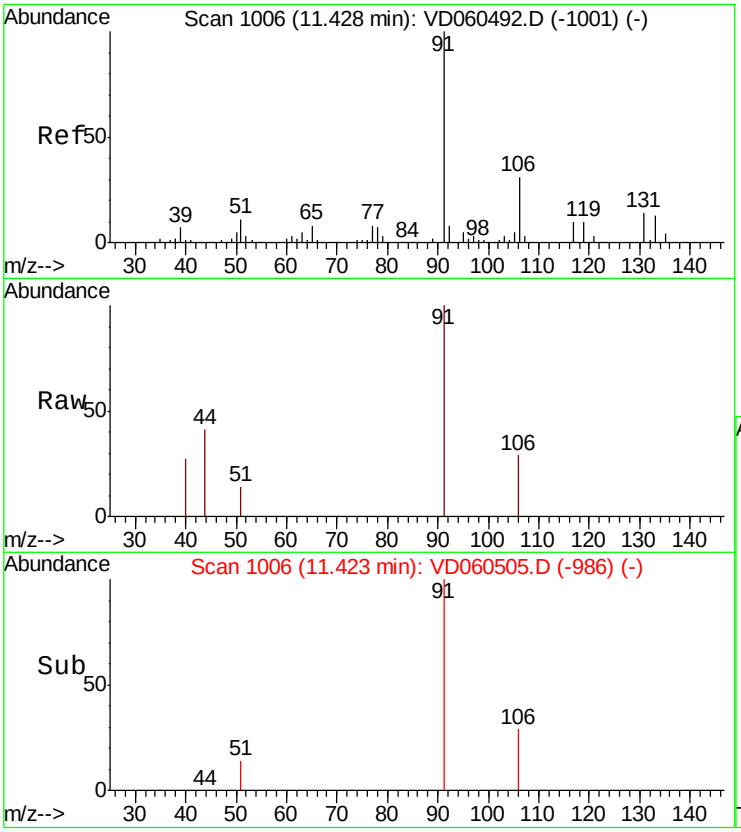




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:117 Resp: 66666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.9 | 45.2 | 67.8 |
| 119 | 30.0 | 26.1 | 39.1 |



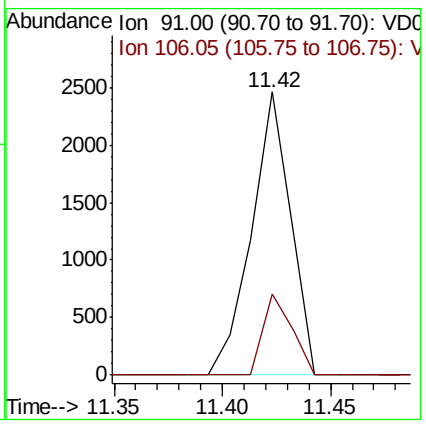


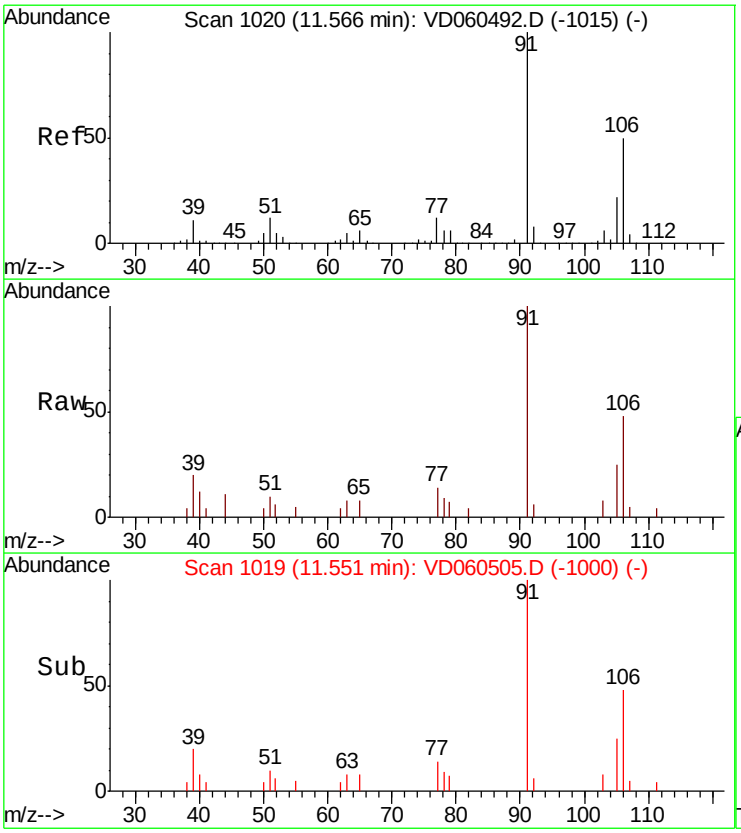

#67
Ethyl Benzene
Concen: 1.272 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion: 91 Resp: 3060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 24.6 | 37.0 |

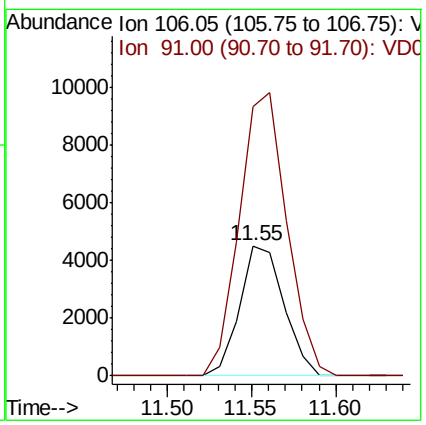


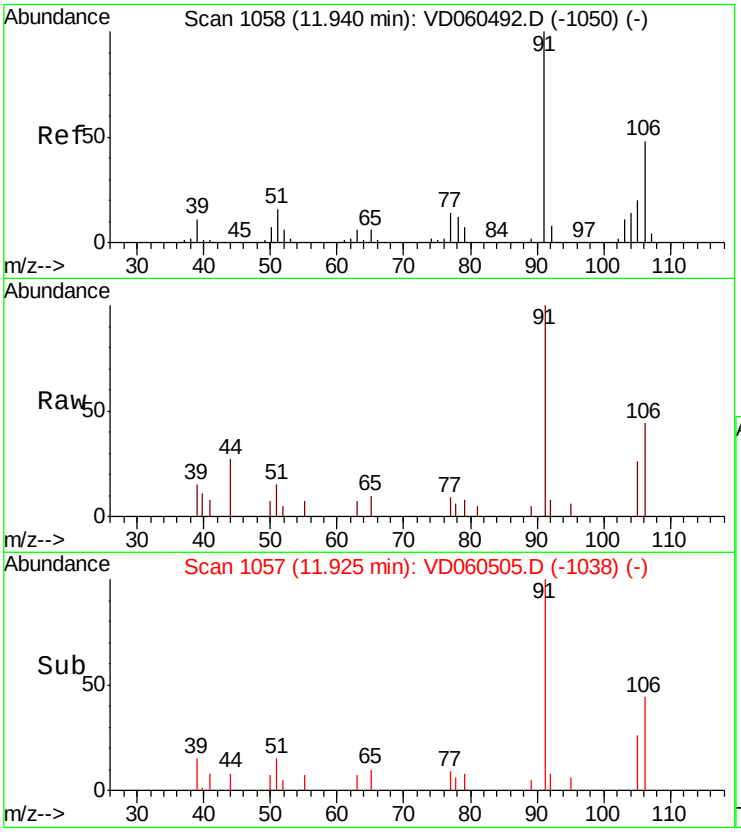




#68
m/p-Xylenes
Concen: 9.221 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:106 Resp: 8207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.8 | 160.5 | 240.7 |



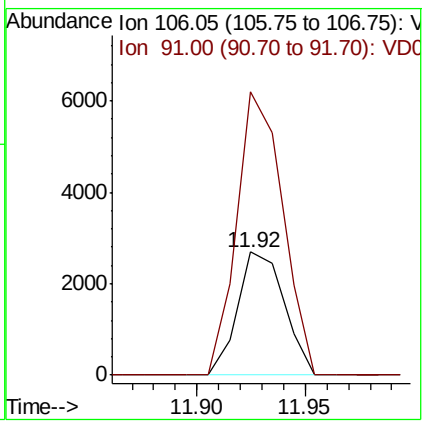


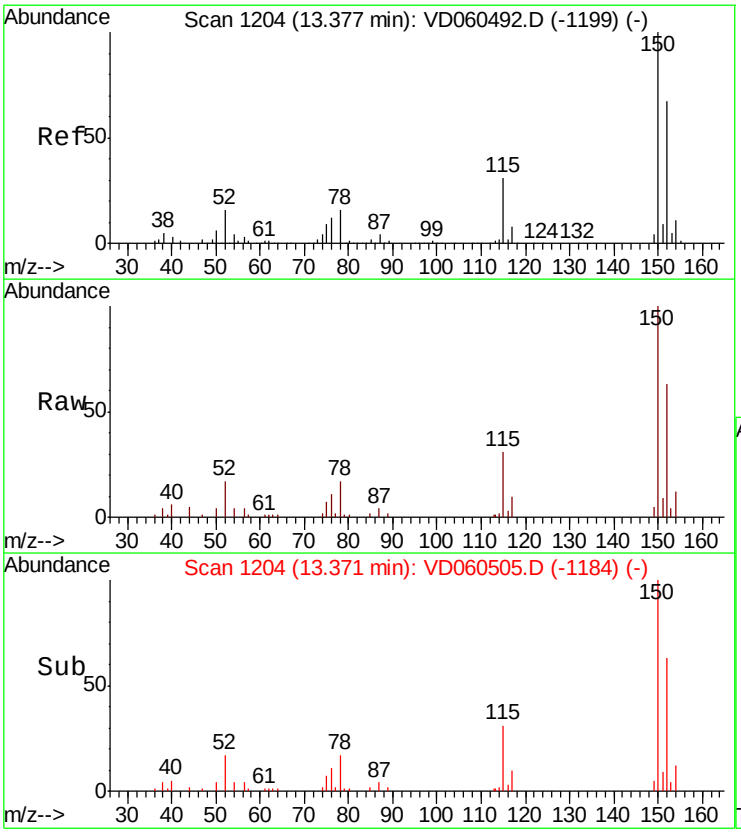

#69
o-Xylene
Concen: 4.749 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion:106 Resp: 4028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 229.7 | 103.4 | 310.1 |

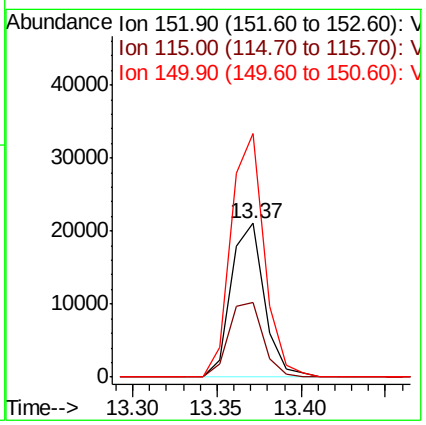


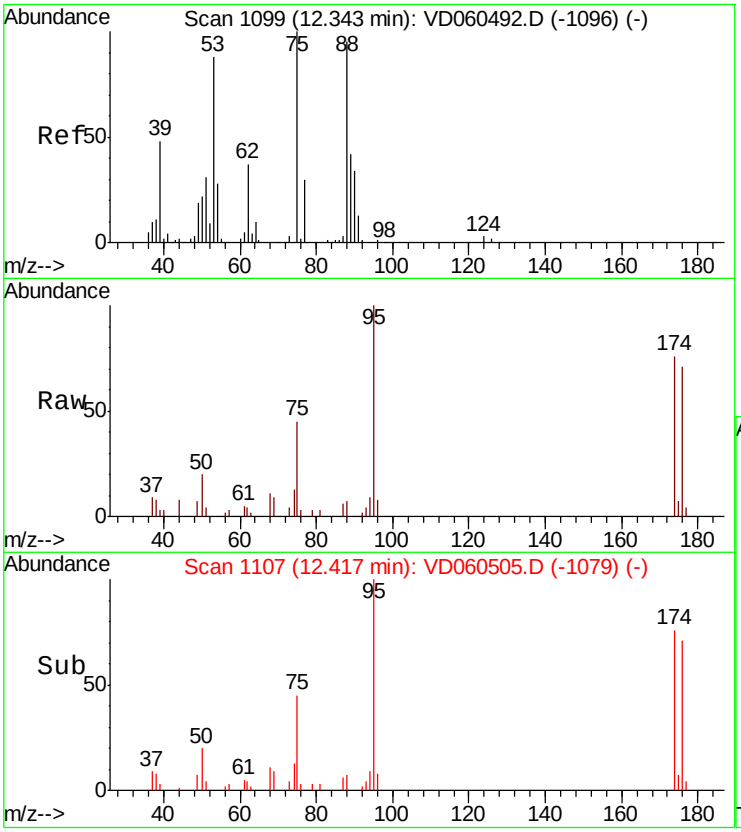




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:152 Resp: 28912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 48.7 | 24.6 | 74.0 |
| 150 | 158.2 | 0.0 | 309.0 |



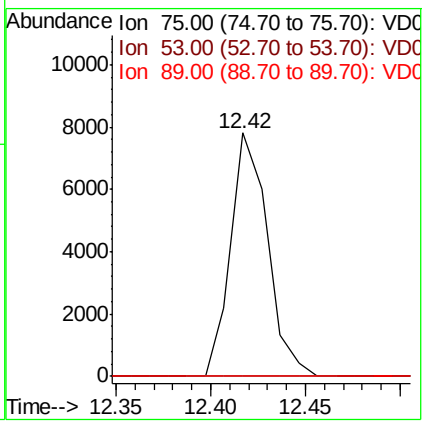


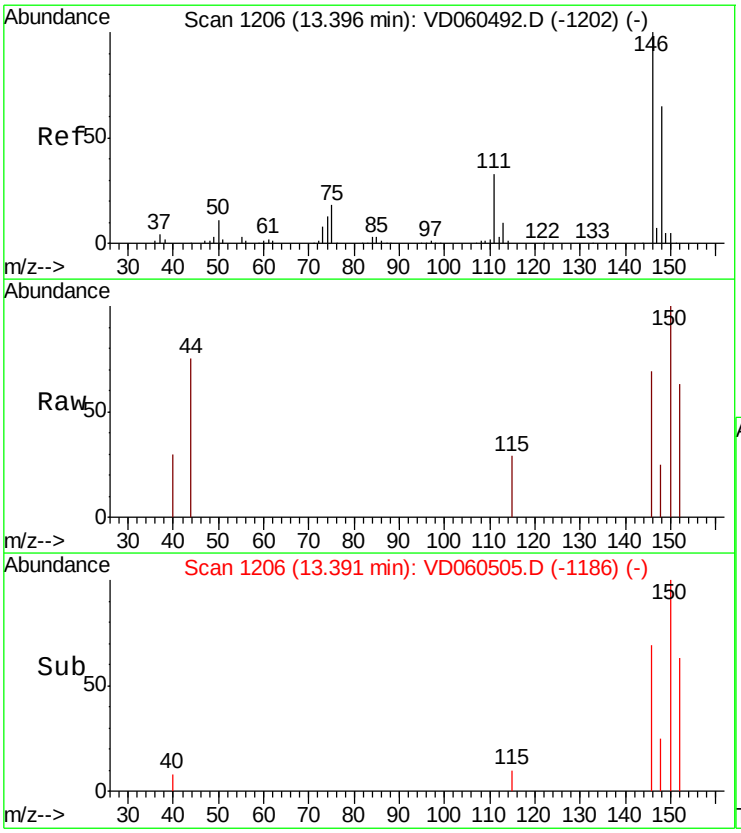

#81
trans-1,4-Dichloro-2-butene
Concen: 114.692 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.07 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :** MSVOA_D
**ClientSampleId :**

Tgt Ion: 75 Resp: 10479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 70.5 | 105.7# |
| 89 | 0.0 | 33.6 | 50.4# |

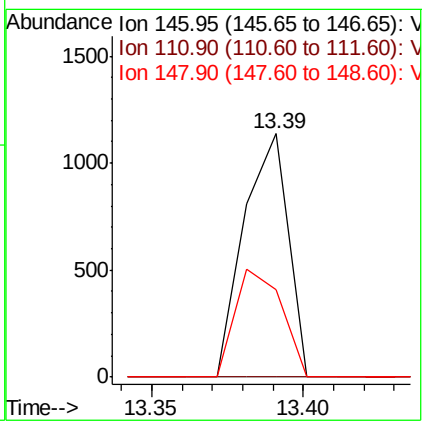


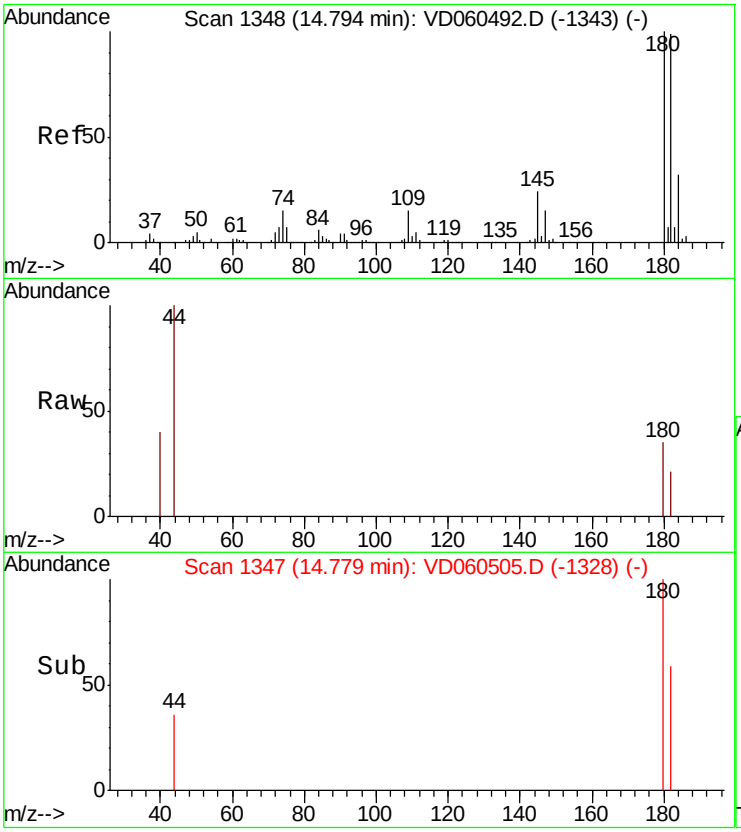




#88
1,4-Dichlorobenzene
Concen: 1.204 ug/l
RT: 13.39 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:146 Resp: 1150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 0.0 | 16.4 | 49.1# |
| 148 | 35.9 | 32.6 | 98.0 |



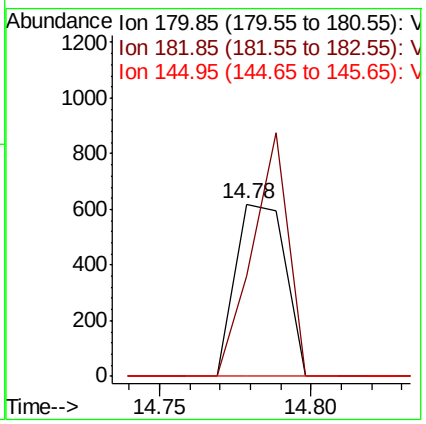


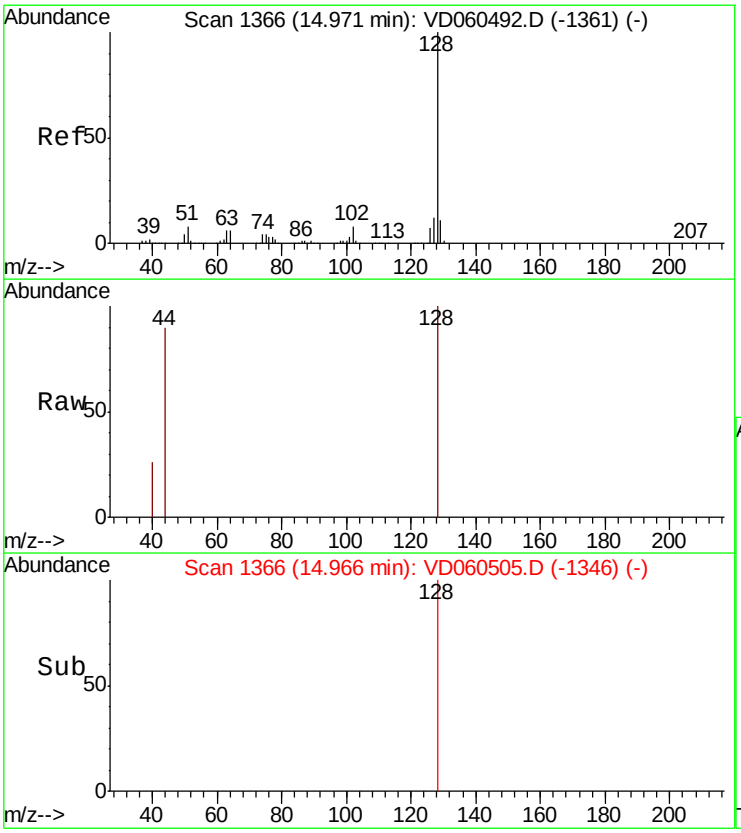

#93
1,2,4-Trichlorobenzene
Concen: 1.153 ug/l
RT: 14.78 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

**Instrument :**
MSVOA_D
**ClientSampleId :**

Tgt Ion:180 Resp: 717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 58.6 | 49.4 | 148.0 |
| 145 | 0.0 | 11.9 | 35.9# |




#95
Naphthalene
Concen: 2.122 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:128 Resp: 1570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 0.0 | 9.8 | 14.8# |
| 129 | 0.0 | 8.6 | 13.0# |