Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD101619\
Data File : VD063991.D
Acq On : 16 Oct 2019 17:11
Operator : VA/SY
Sample : K5401-01
Misc : 4.41G/5.00ml/MSVOA_D/SOIL
ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Oct 16 18:09:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
Quant Title : SW846 8260
QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.98 | 168 | 17729 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.87 | 114 | 33971 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.65 | 117 | 32965 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152 | 17244 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.33 | 65 | 14947 | 86.60 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 173.20% | | | |
| 35) Dibromofluoromethane | 7.93 | 113 | 10619 | 51.15 | ug/l | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 102.30% | | | |
| 50) Toluene-d8 | 10.34 | 98 | 39708 | 47.12 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 94.24% | | | |
| 62) 4-Bromofluorobenzene | 12.64 | 95 | 14152 | 48.33 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 96.66% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 2.21 | 50 | 298 | Below Cal | # | 40 |
| 8) Diethyl Ether | 3.68 | 74 | 122 | 1.415 | ug/l | 72 |
| 11) Tert butyl alcohol | 5.39 | 59 | 54 | Below Cal | # | 71 |
| 12) 1,1-Dichloroethene | 3.99 | 96 | 187 | 1.259 | ug/l # | 1 |
| 13) Acrolein | 3.94 | 56 | 77 | 4.995 | ug/l # | 1 |
| 15) Acrylonitrile | 5.50 | 53 | 59 | 1.552 | ug/l # | 17 |
| 16) Acetone | 4.14 | 43 | 57 | 1.268 | ug/l # | 42 |
| 18) Methyl Acetate | 4.73 | 43 | 274 | 3.117 | ug/l # | 49 |
| 20) Methylene Chloride | 4.98 | 84 | 98 | Below Cal | # | 7 |
| 25) 2-Butanone | 7.26 | 43 | 164 | 3.079 | ug/l # | 51 |
| 28) Bromochloromethane | 7.56 | 49 | 68 | 2.418 | ug/l # | 10 |
| 29) Tetrahydrofuran | 7.58 | 42 | 76 | 2.445 | ug/l # | 31 |
| 31) Cyclohexane | 7.99 | 56 | 598 | Below Cal | # | 16 |
| 37) Ethyl Acetate | 7.26 | 43 | 164 | Below Cal | # | 60 |
| 38) Carbon Tetrachloride | 7.99 | 117 | 1895 | 6.037 | ug/l # | 15 |
| 41) Methacrylonitrile | 7.48 | 41 | 133 | 1.847 | ug/l # | 31 |
| 48) Methyl methacrylate | 9.45 | 41 | 265 | 2.123 | ug/l # | 29 |
| 49) 1,4-Dioxane | 9.30 | 88 | 99 | 58.454 | ug/l # | 24 |
| 59) 2-Hexanone | 11.08 | 43 | 156 | 1.596 | ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.64 | 75 | 8185 | 70.869 | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75 | 8185 | 125.409 | ug/l # | 12 |
| 92) 1,2-Dibromo-3-Chloropropan | 14.54 | 75 | 59 | Below Cal | # | 11 |

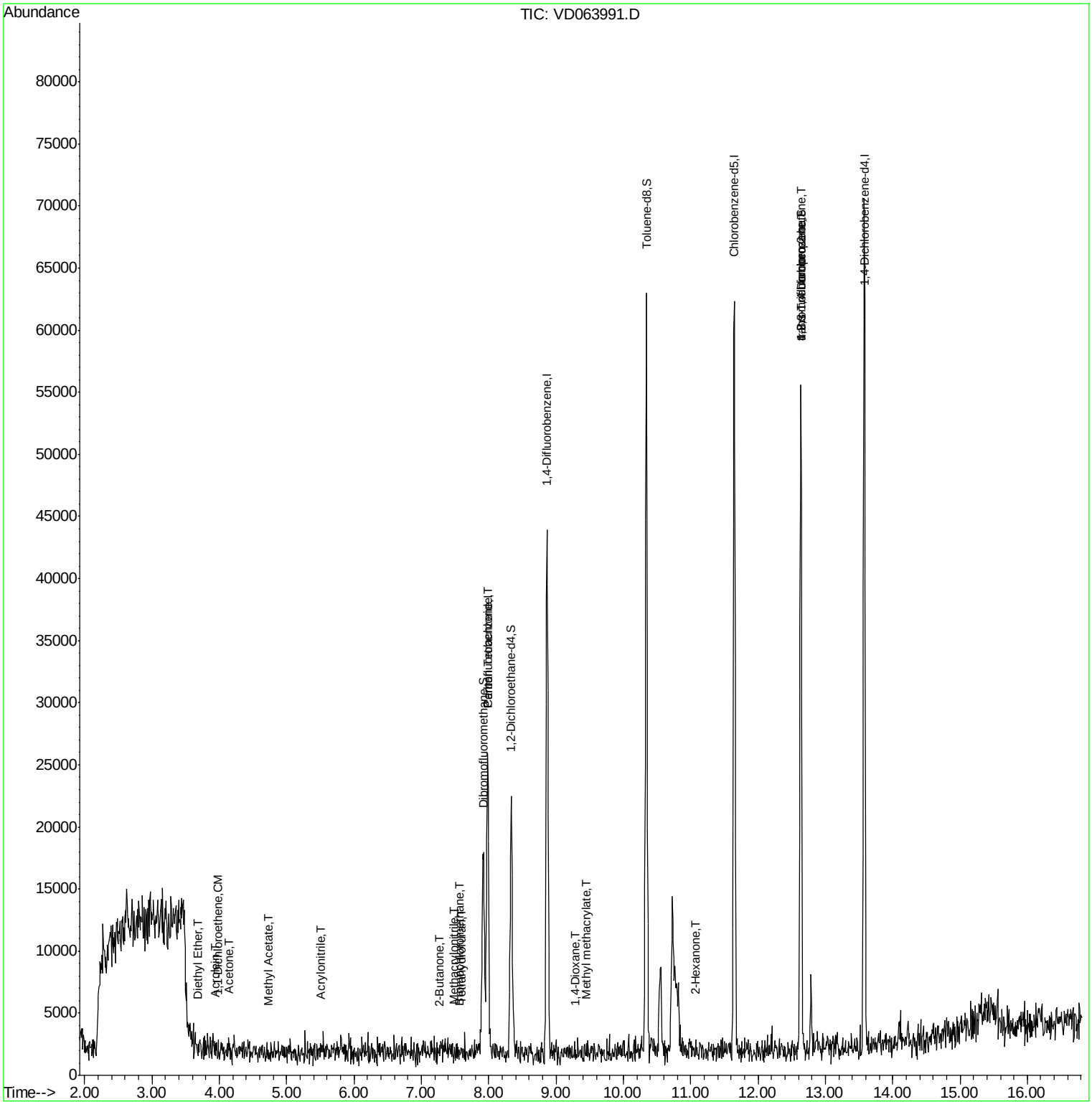
(#) = qualifier out of range (m) = manual integration (+) = signals summed

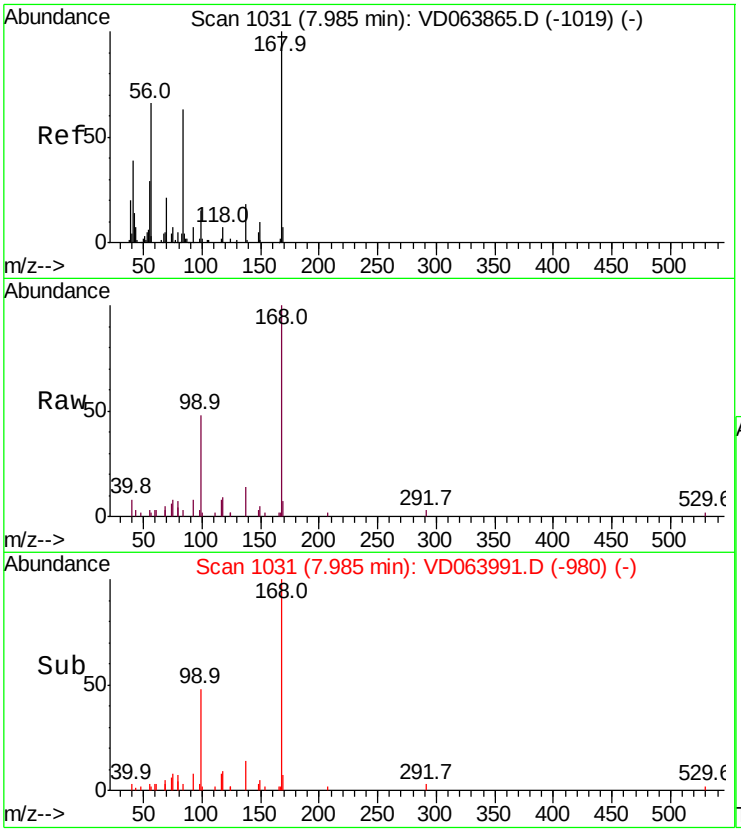
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD101619\
Data File : VD063991.D
Acq On : 16 Oct 2019 17:11
Operator : VA/SY
Sample : K5401-01
Misc : 4.41G/5.00ml/MSVOA_D/SOIL
ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Oct 16 18:09:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
Quant Title : SW846 8260
QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration



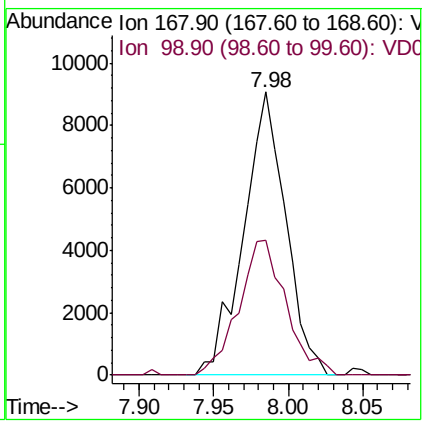


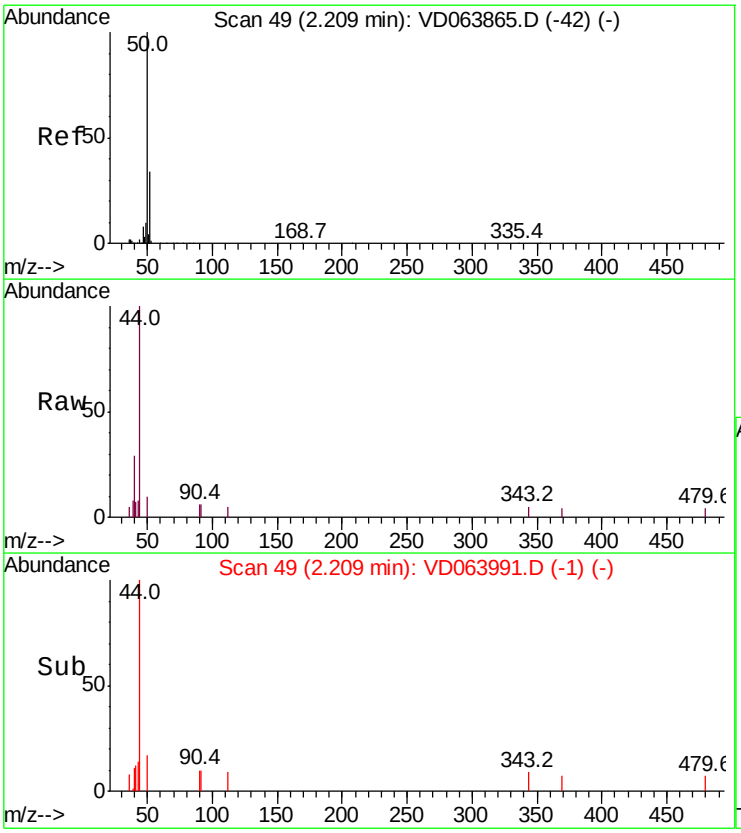

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion:168 Resp: 17729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 47.8 | 43.0 | 64.4 |

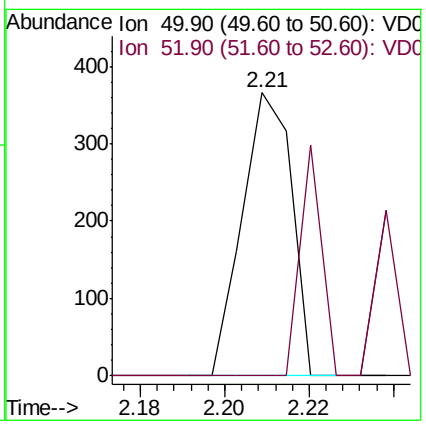


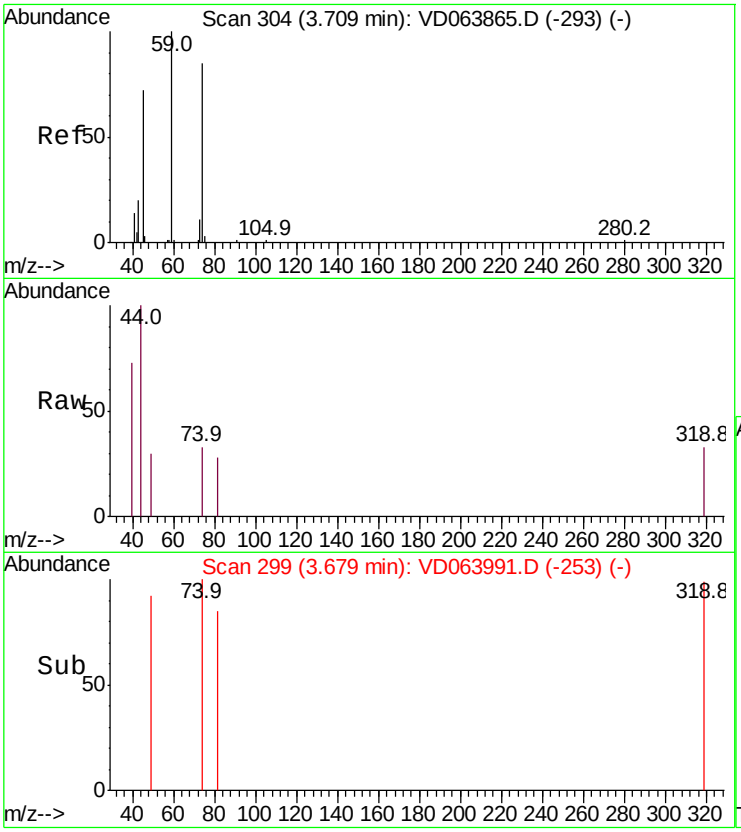




#3
Chloromethane
Concen: Below Cal
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 50 Resp: 298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 0.0 | 27.5 | 41.3# |



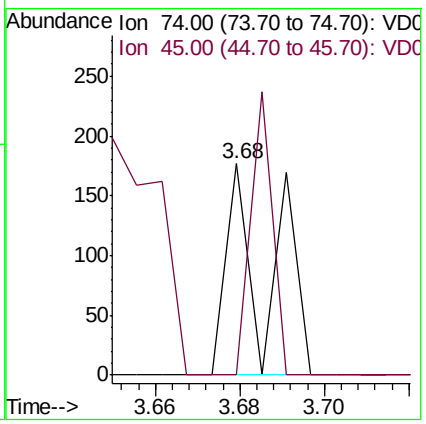


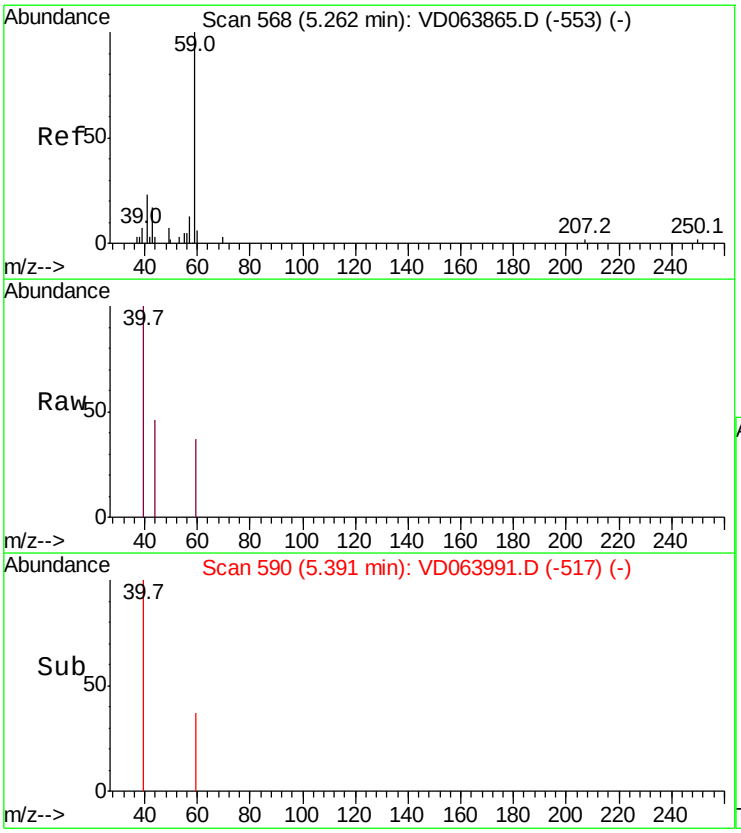

#8
Diethyl Ether
Concen: 1.415 ug/l
RT: 3.68 min Scan# 299
Delta R.T. -0.03 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 74 Resp: 122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 68.9 | 48.1 | 144.4 |

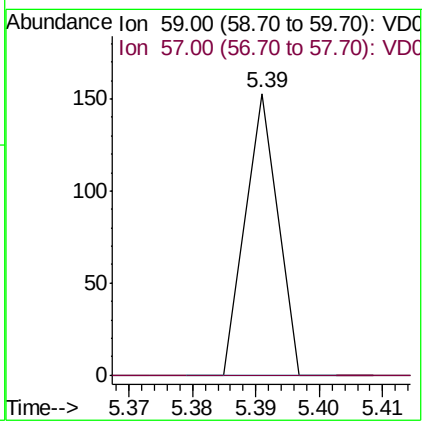


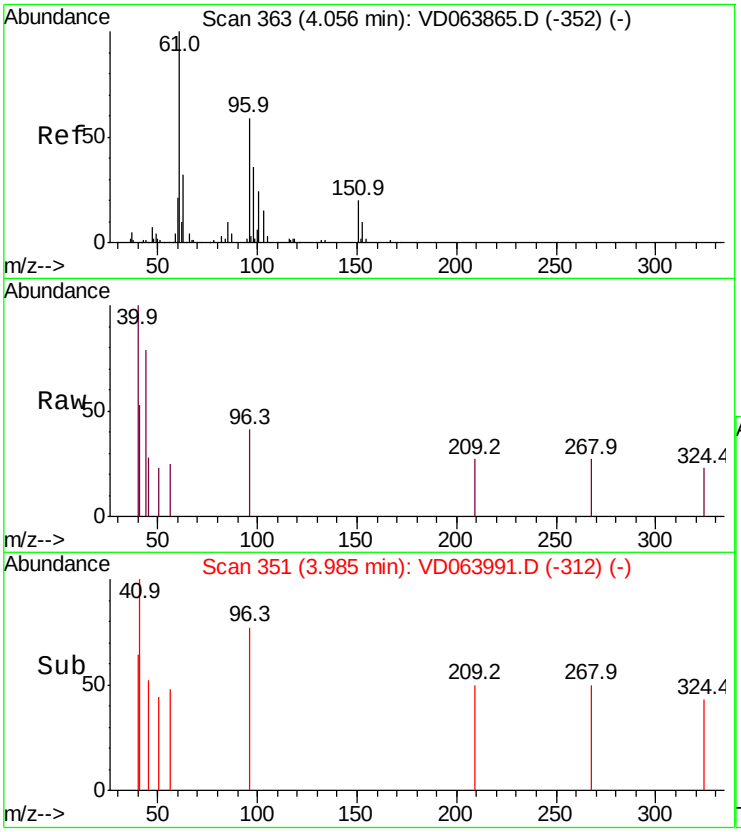




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.39 min Scan# 590
Delta R.T. 0.13 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 59 Resp: 54

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.8 | 13.2# |



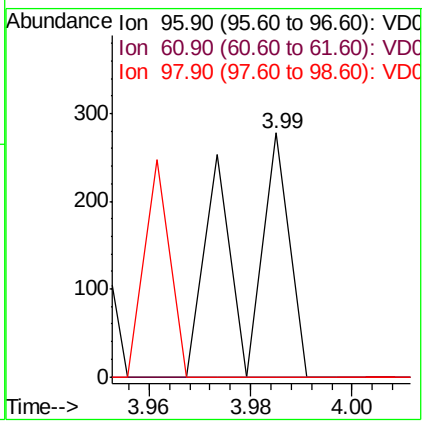


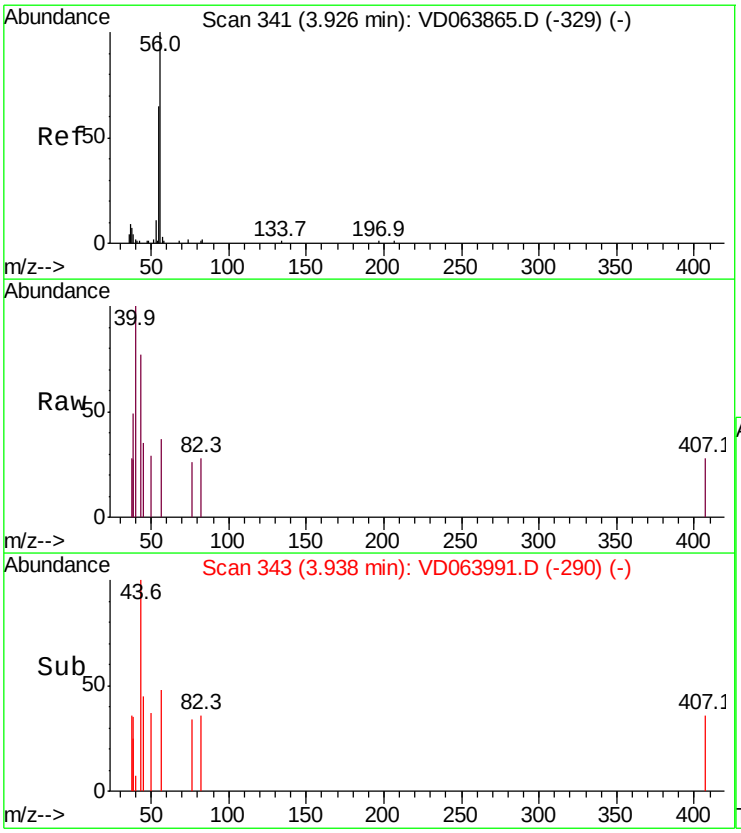

#12
1,1-Dichloroethene
Concen: 1.259 ug/l
RT: 3.99 min Scan# 351
Delta R.T. -0.07 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 96 Resp: 187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 0.0 | 135.6 | 203.4# |
| 98 | 0.0 | 49.2 | 73.8# |

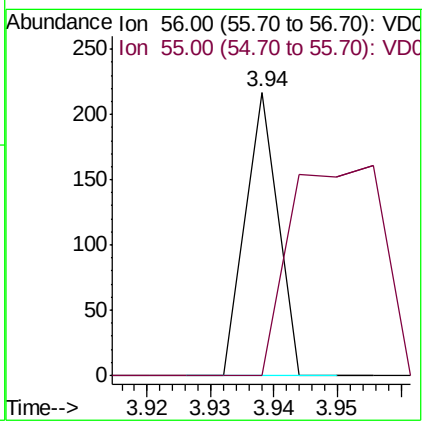


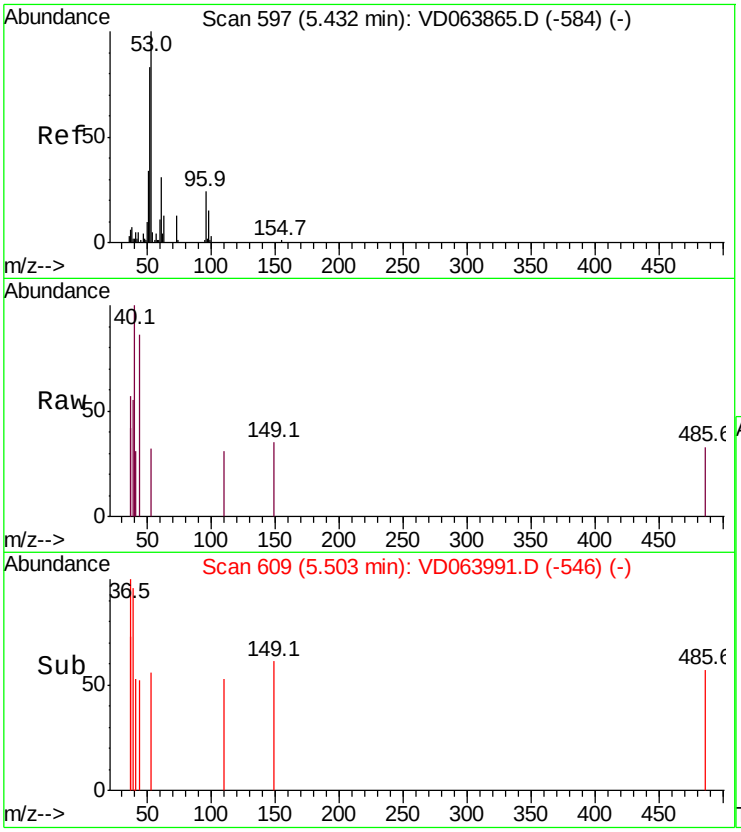




#13
Acrolein
Concen: 4.995 ug/l
RT: 3.94 min Scan# 343
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 56 Resp: 77

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 214.3 | 53.0 | 79.6# |



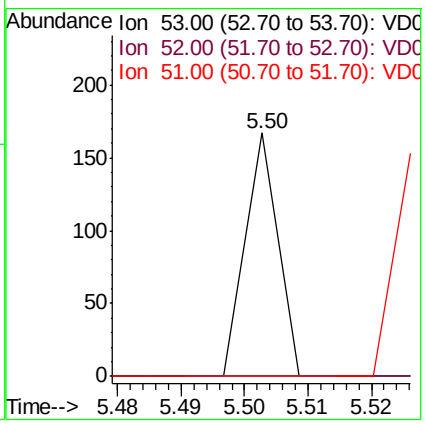


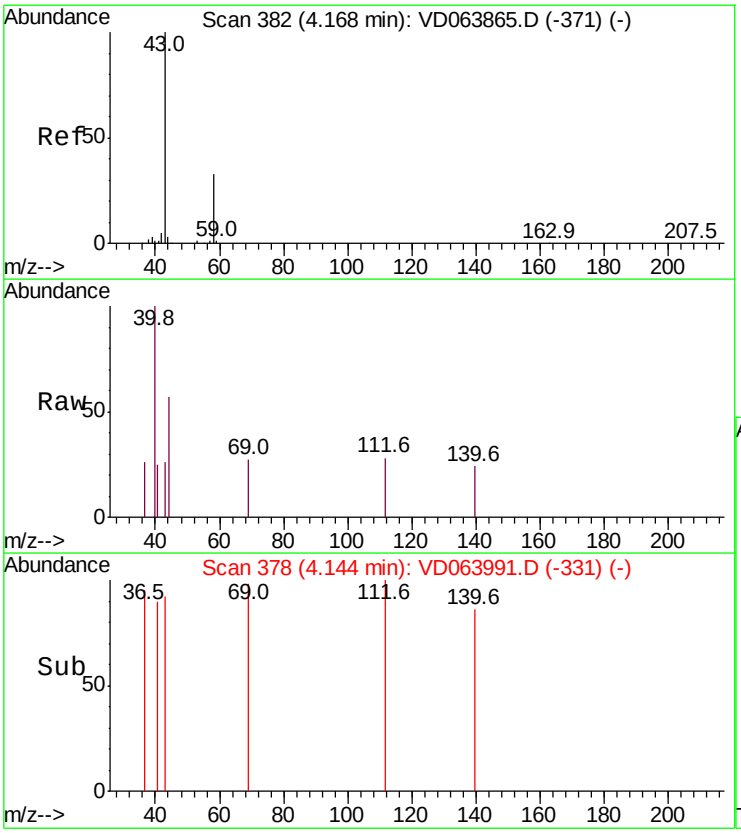

#15
Acrylonitrile
Concen: 1.552 ug/l
RT: 5.50 min Scan# 609
Delta R.T. 0.07 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 53 Resp: 59

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 0.0 | 67.3 | 100.9# |
| 51 | 0.0 | 30.5 | 45.7# |

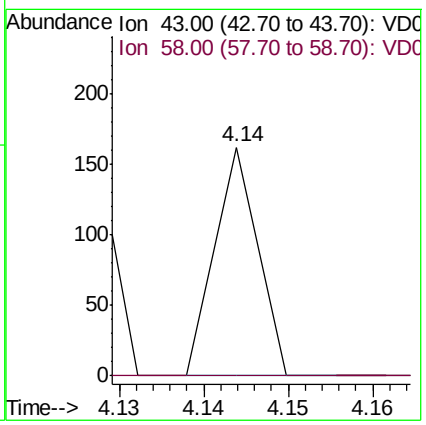


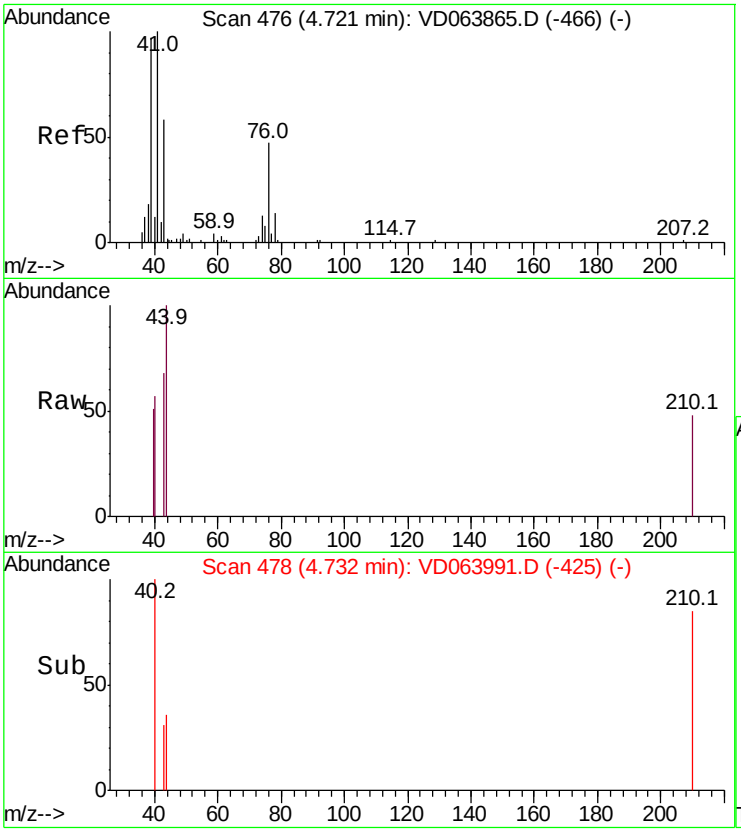




#16
Acetone
Concen: 1.268 ug/l
RT: 4.14 min Scan# 378
Delta R.T. -0.02 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 43 Resp: 57

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 26.2 | 39.4# |



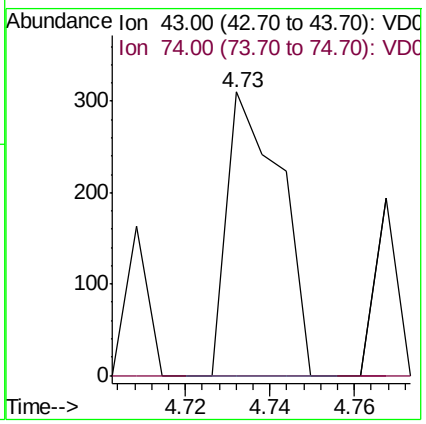


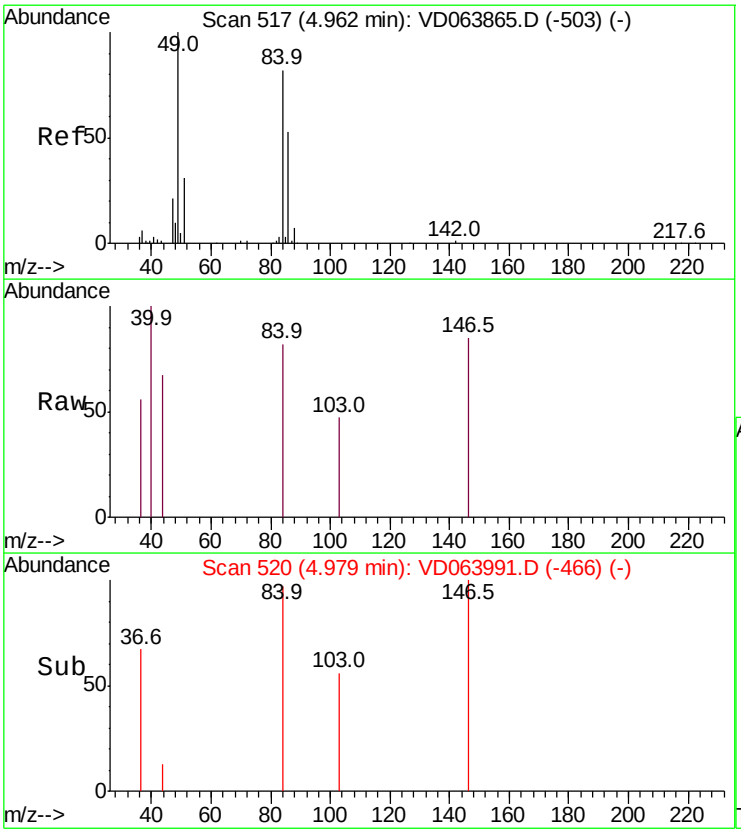

#18
Methyl Acetate
Concen: 3.117 ug/l
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 43 Resp: 274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 0.0 | 20.8 | 31.2# |

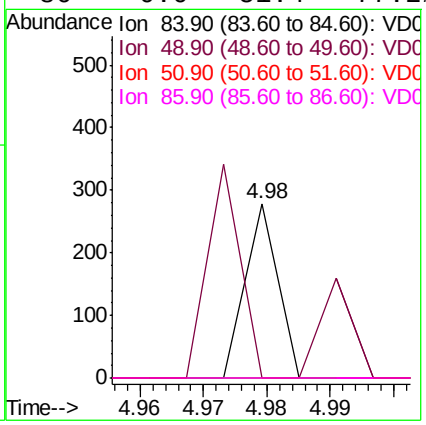


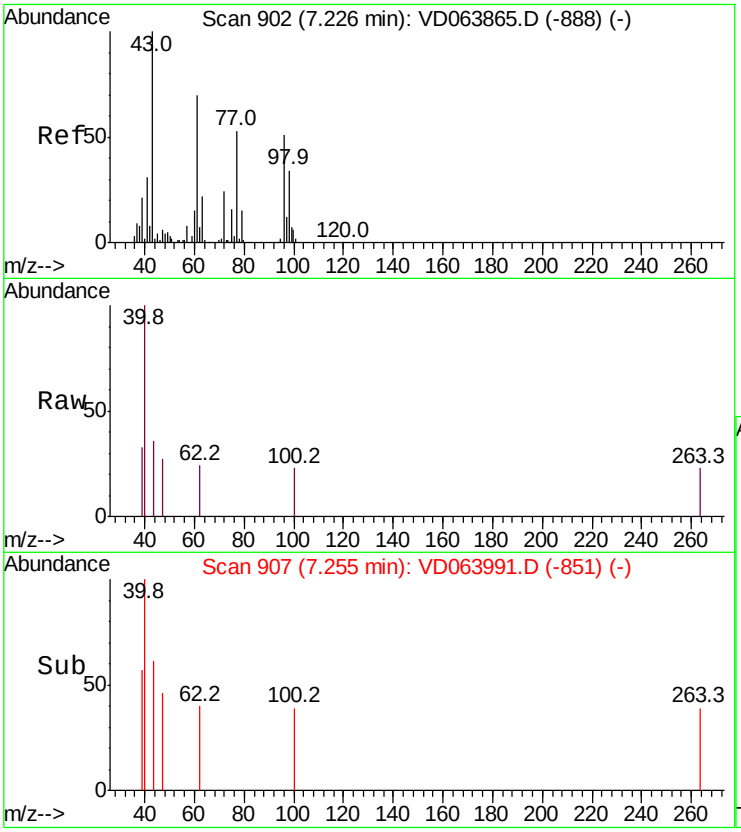




#20
Methylene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 84 Resp: 98

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 0.0 | 97.3 | 145.9# |
| 51 | 0.0 | 30.1 | 45.1# |
| 86 | 0.0 | 51.4 | 77.2# |



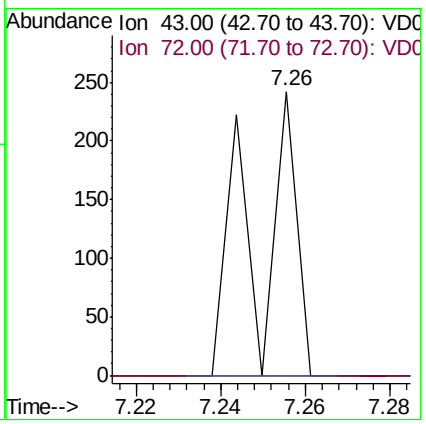


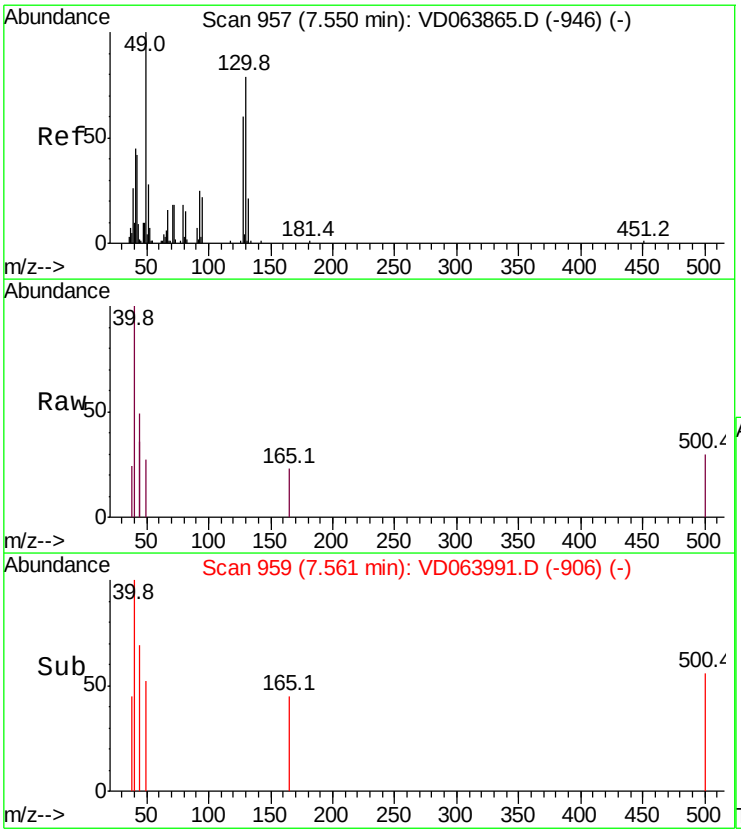

#25
2-Butanone
Concen: 3.079 ug/l
RT: 7.26 min Scan# 907
Delta R.T. 0.03 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 43 Resp: 164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 0.0 | 19.2 | 28.8# |

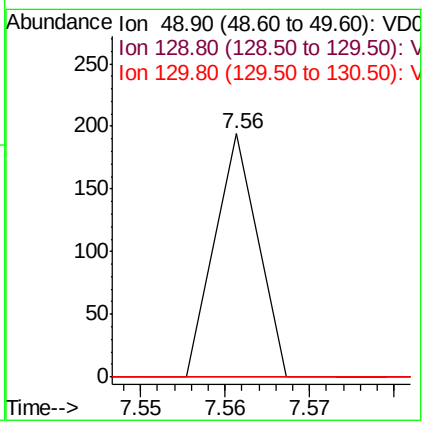


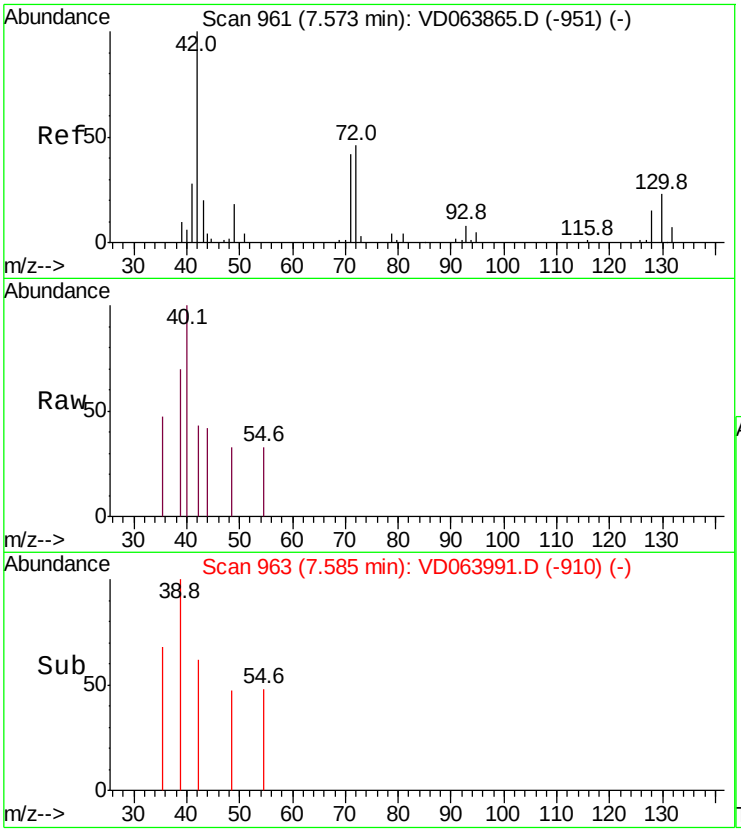




#28
Bromochloromethane
Concen: 2.418 ug/l
RT: 7.56 min Scan# 959
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 49 Resp: 68

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 5.6 |
| 130 | 0.0 | 66.8 | 100.2# |



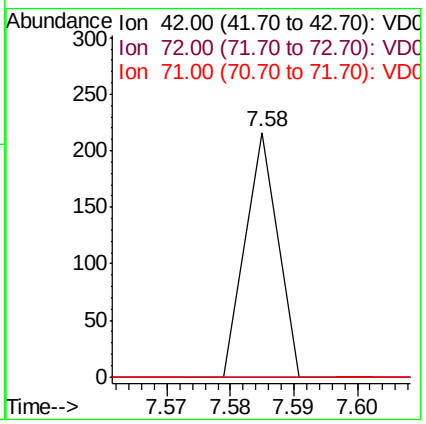


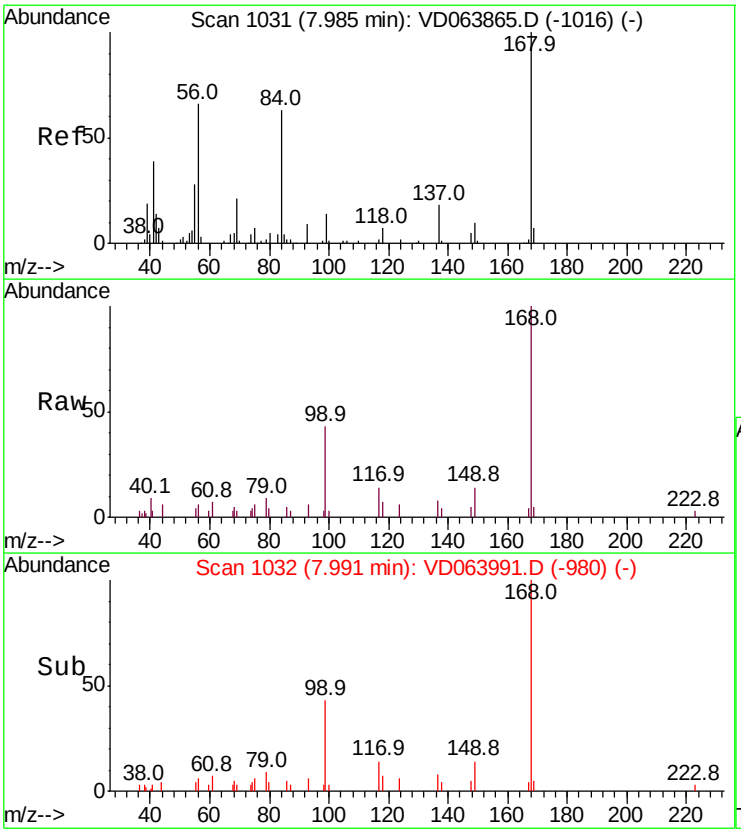

#29
Tetrahydrofuran
Concen: 2.445 ug/l
RT: 7.58 min Scan# 963
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 42 Resp: 76

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 37.6 | 56.4# |
| 71 | 0.0 | 35.0 | 52.6# |

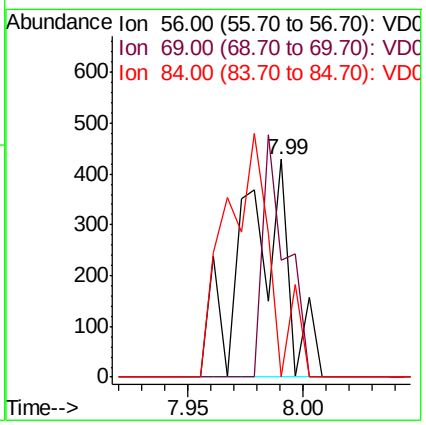


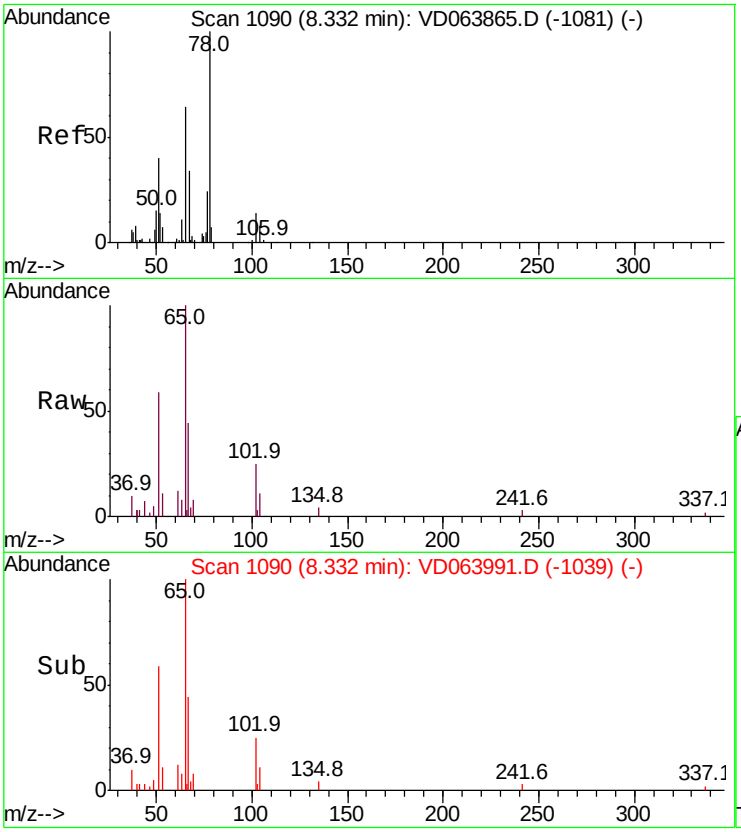




#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 56 Resp: 598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 53.8 | 25.0 | 37.4# |
| 84 | 0.0 | 76.3 | 114.5# |



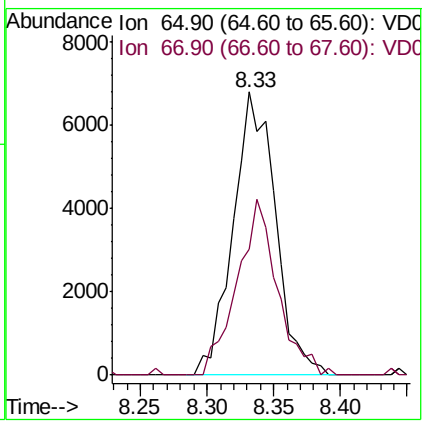


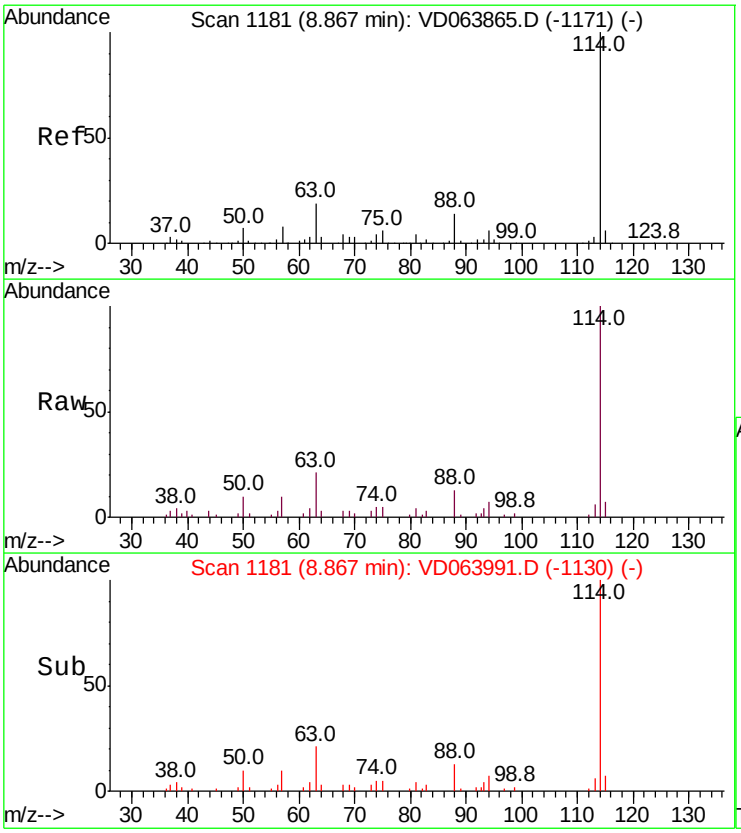

#33
1,2-Dichloroethane-d4
Concen: 86.596 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 65 Resp: 14947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 59.0 | 0.0 | 106.4 |

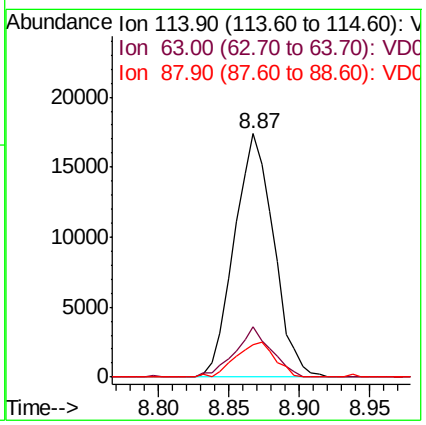


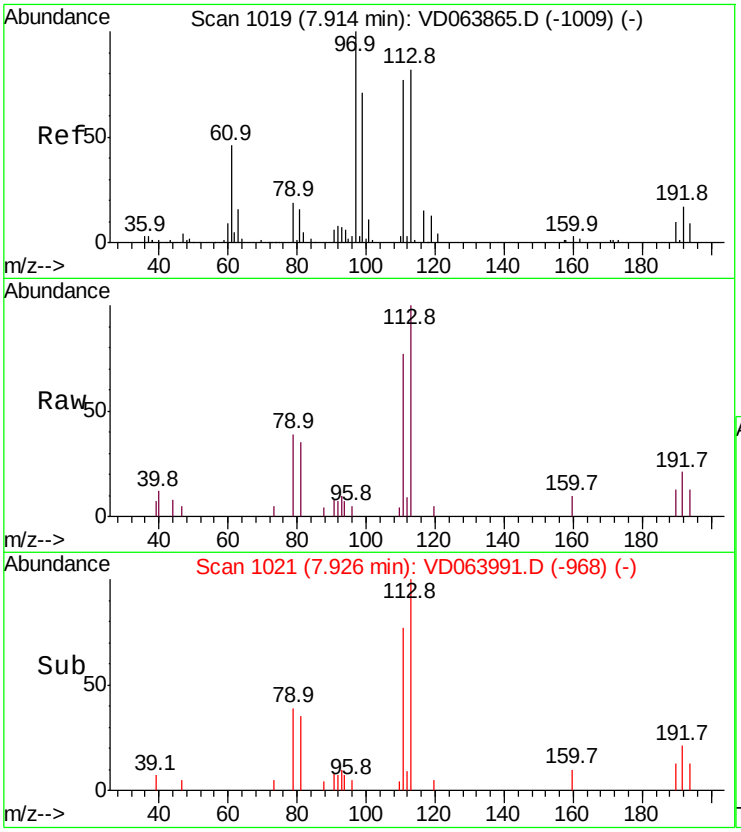




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion:114 Resp: 33971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 38.4 |
| 88 | 13.5 | 0.0 | 27.4 |



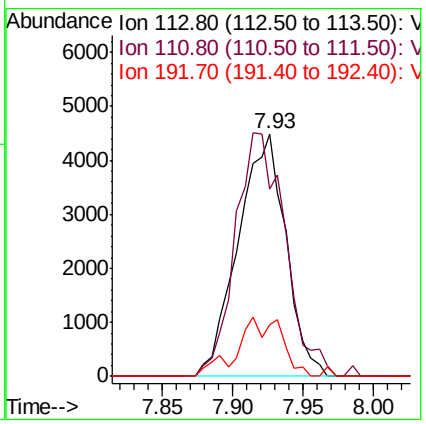


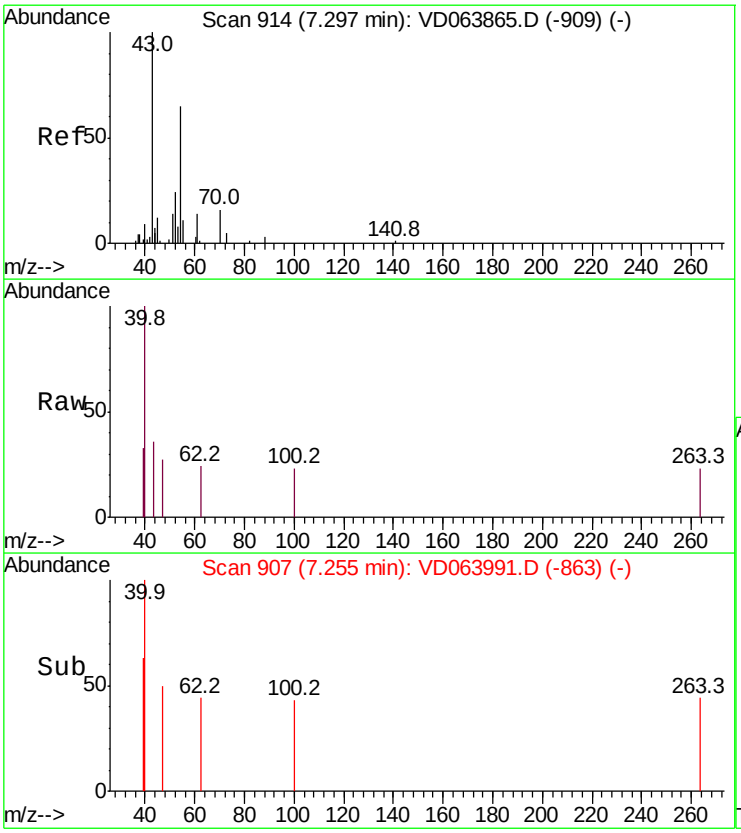

#35
Dibromofluoromethane
Concen: 51.149 ug/l
RT: 7.93 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion:113 Resp: 10619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.3 | 82.6 | 123.8 |
| 192 | 13.2 | 17.1 | 25.7# |

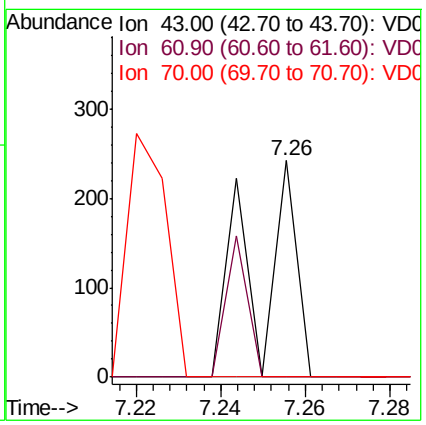


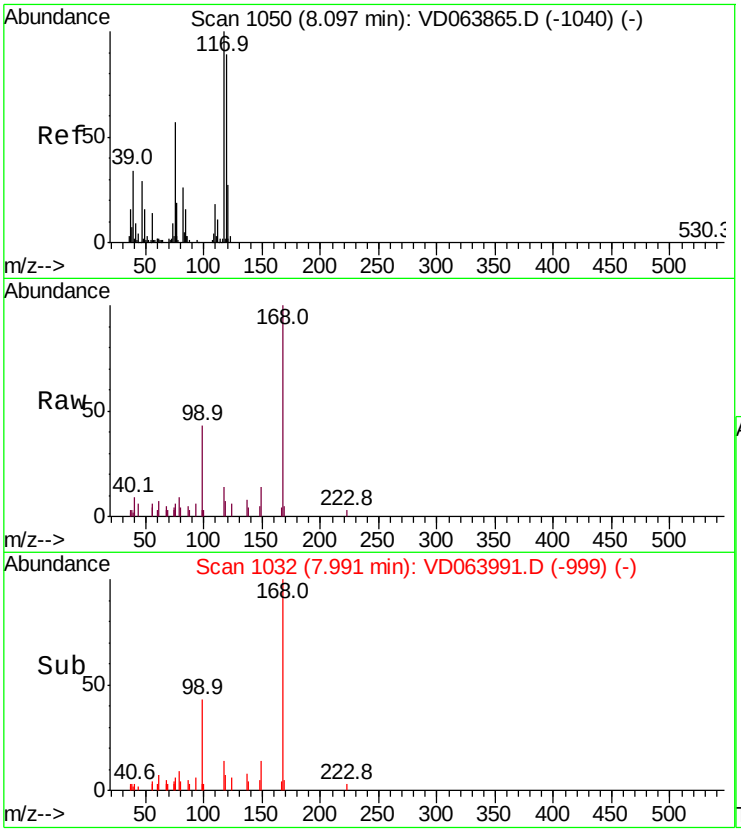




#37
Ethyl Acetate
Concen: Below Cal
RT: 7.26 min Scan# 907
Delta R.T. -0.04 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 43 Resp: 164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.1 | 11.5 | 17.3# |
| 70 | 0.0 | 8.2 | 12.4# |



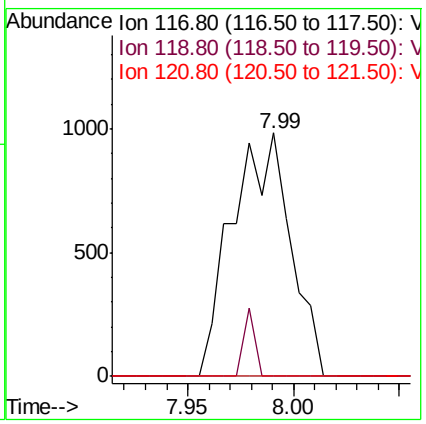


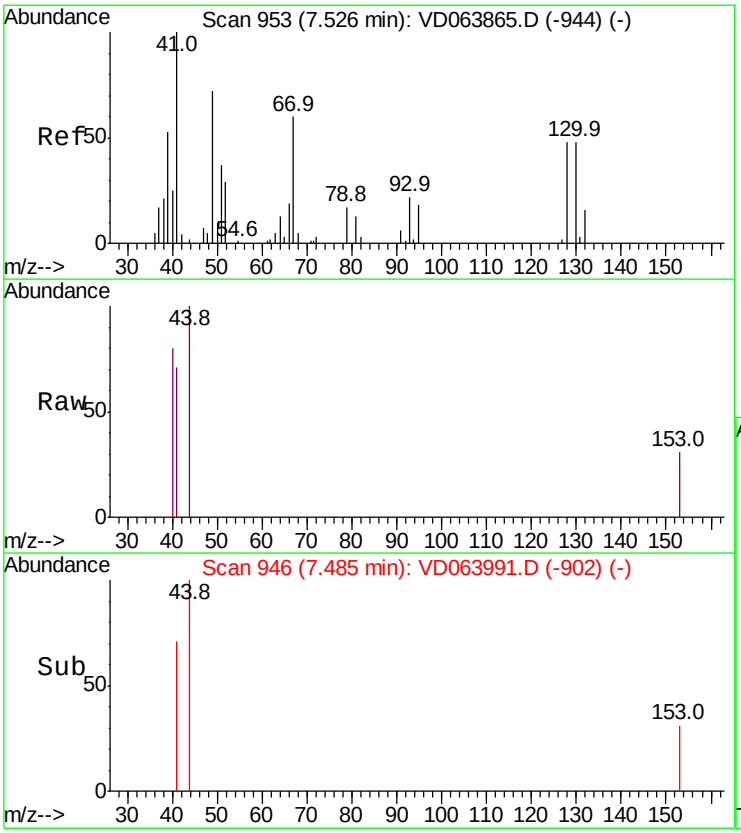

#38
Carbon Tetrachloride
Concen: 6.037 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.11 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion:117 Resp: 1895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 0.0 | 70.8 | 106.2# |
| 121 | 0.0 | 21.4 | 32.0# |

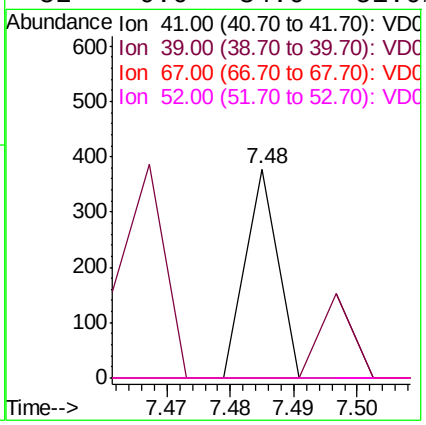


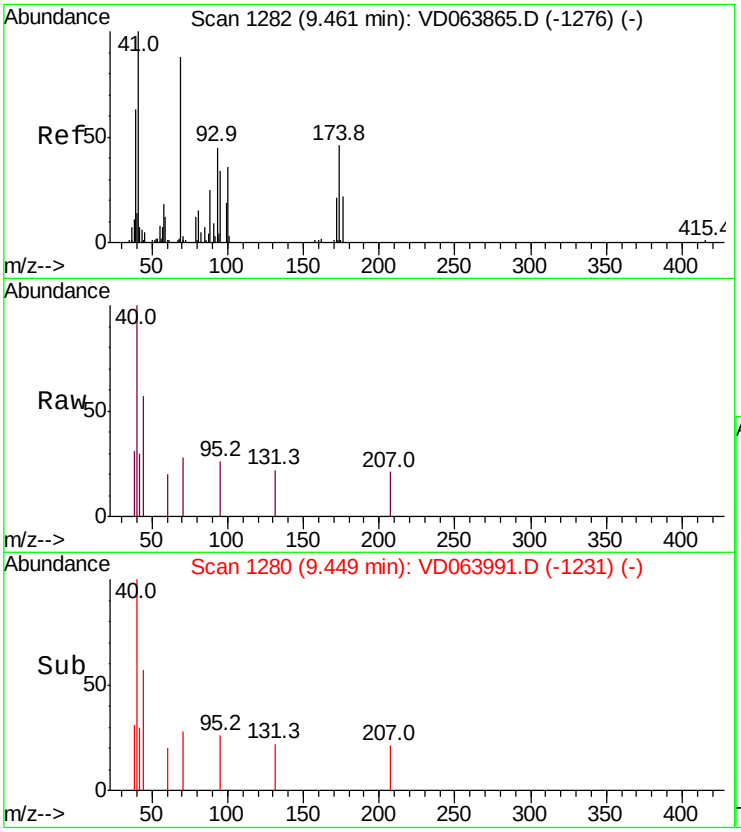




#41
Methacrylonitrile
Concen: 1.847 ug/l
RT: 7.48 min Scan# 946
Delta R.T. -0.04 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 41 Resp: 133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 40.6 | 52.6 | 78.8# |
| 67 | 0.0 | 74.2 | 111.2# |
| 52 | 0.0 | 34.0 | 51.0# |



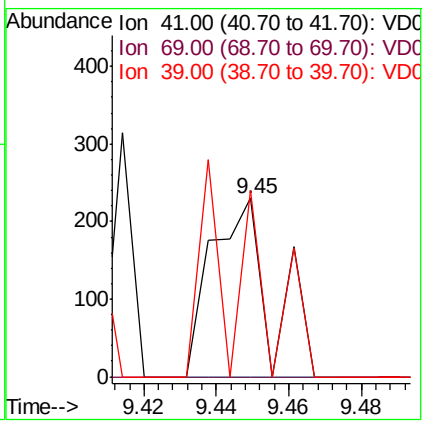


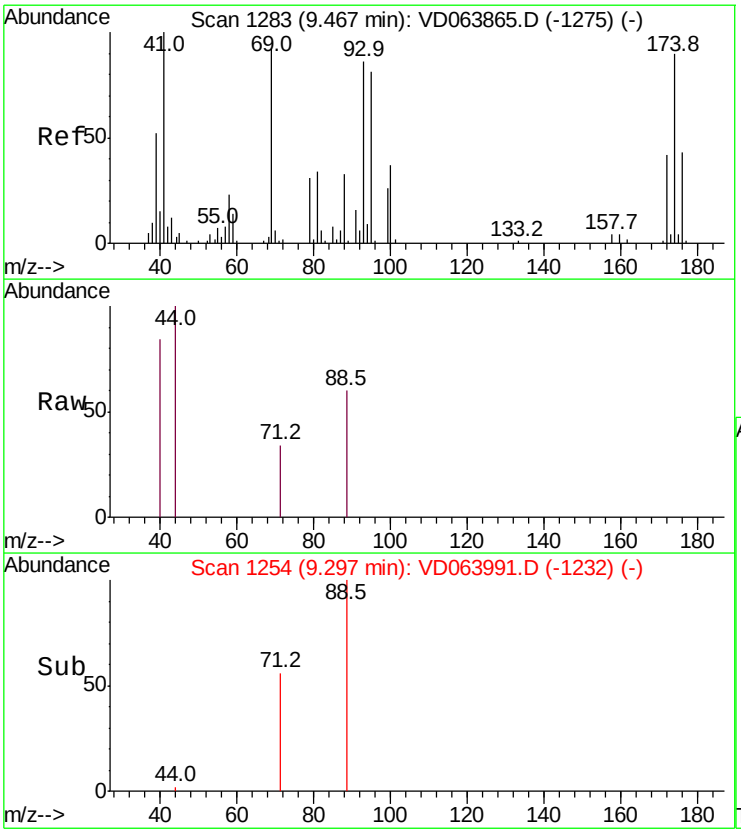

#48
Methyl methacrylate
Concen: 2.123 ug/l
RT: 9.45 min Scan# 1280
Delta R.T. -0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 41 Resp: 265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 0.0 | 75.1 | 112.7# |
| 39 | 37.4 | 50.2 | 75.2# |

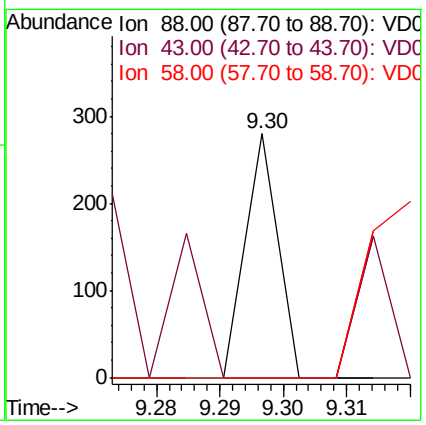


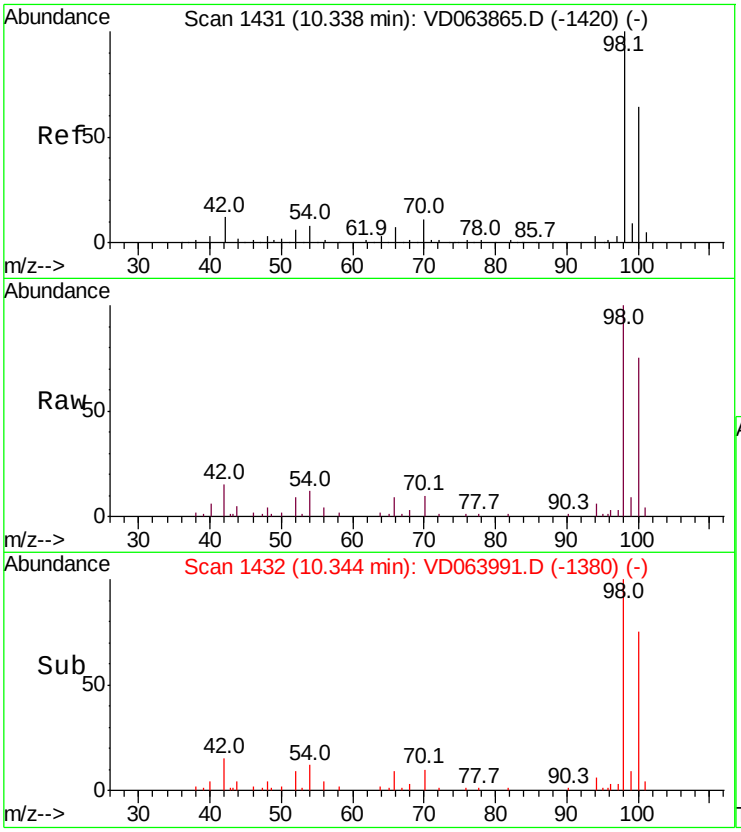




#49
1,4-Dioxane
Concen: 58.454 ug/l
RT: 9.30 min Scan# 1254
Delta R.T. -0.17 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 88 Resp: 99

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 27.6 | 41.4# |
| 58 | 0.0 | 54.1 | 81.1# |



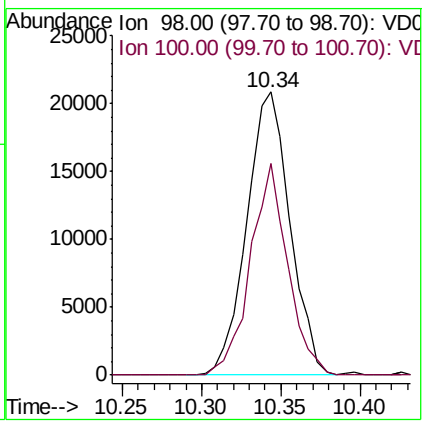


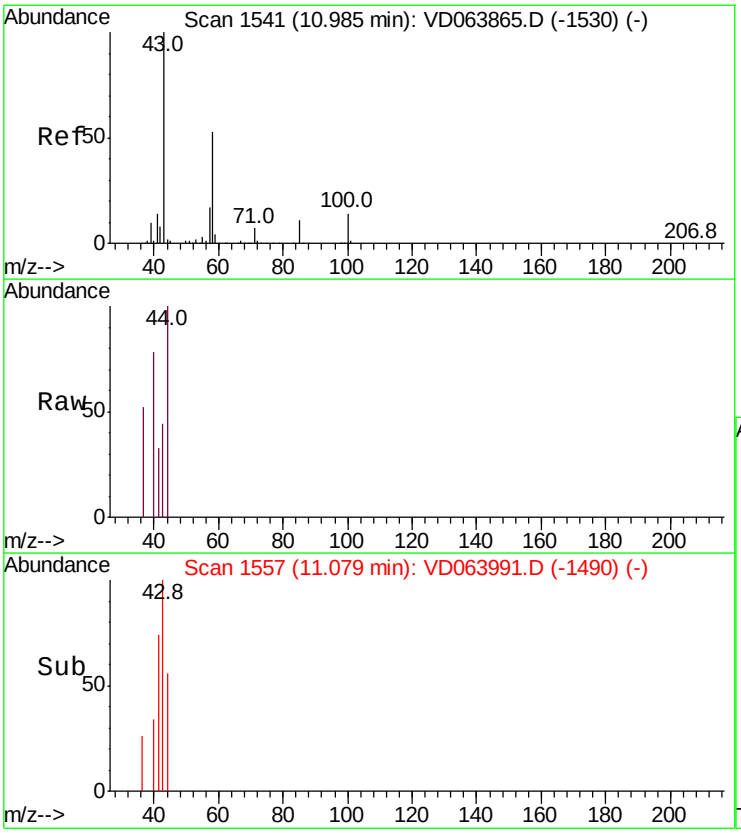

#50
Toluene-d8
Concen: 47.123 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 98 Resp: 39708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.1 | 78.1 |

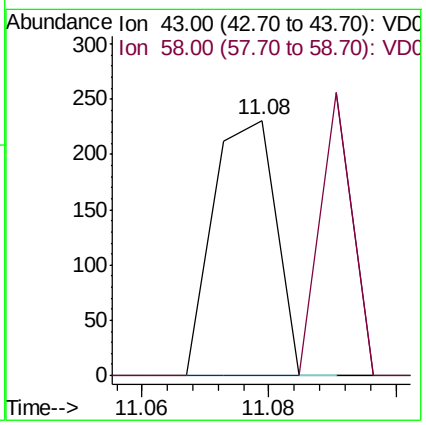


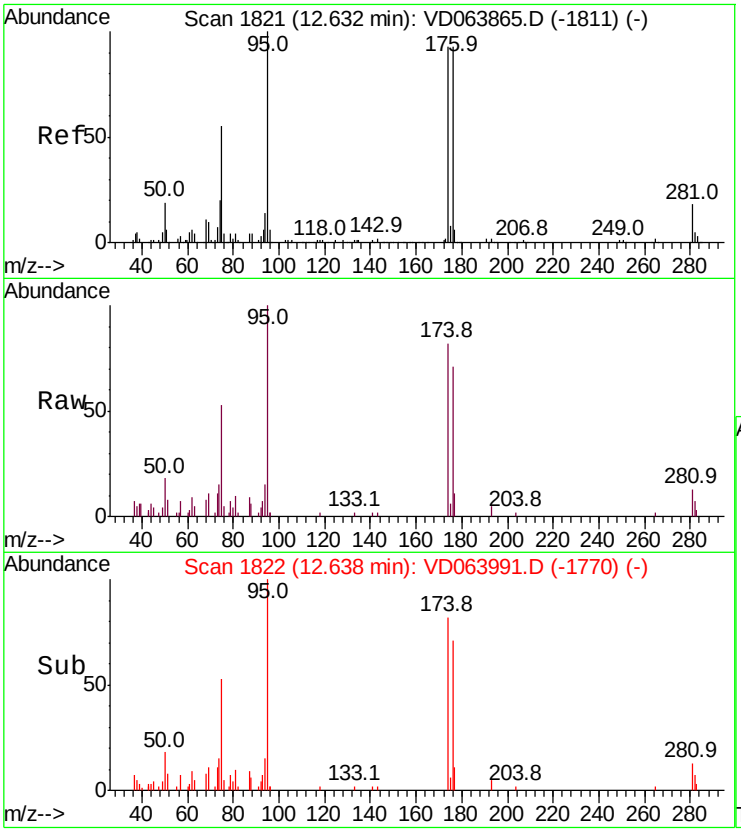




#59
2-Hexanone
Concen: 1.596 ug/l
RT: 11.08 min Scan# 1557
Delta R.T. 0.09 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 43 Resp: 156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.7 | 27.7 | 83.0 |



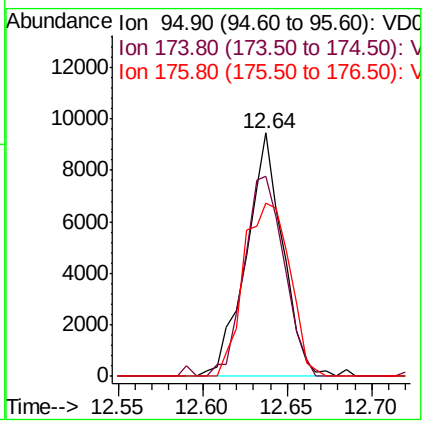


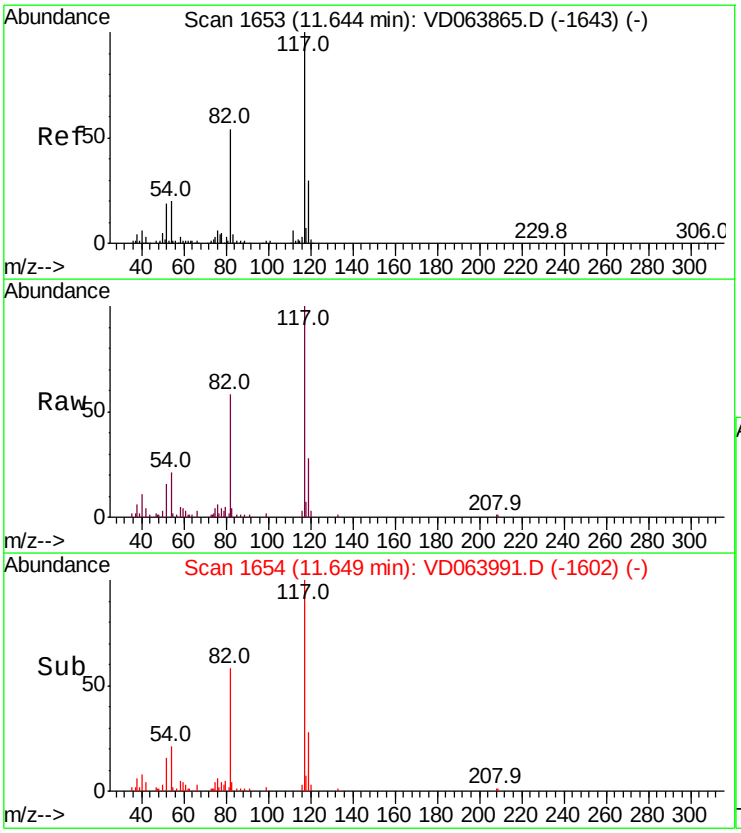

#62
4-Bromofluorobenzene
Concen: 48.330 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 95 Resp: 14152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 90.6 | 0.0 | 186.4 |
| 176 | 89.7 | 0.0 | 184.2 |

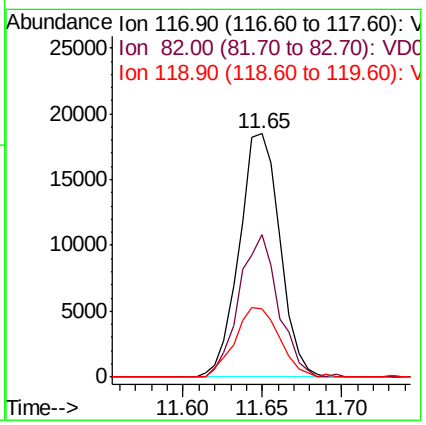


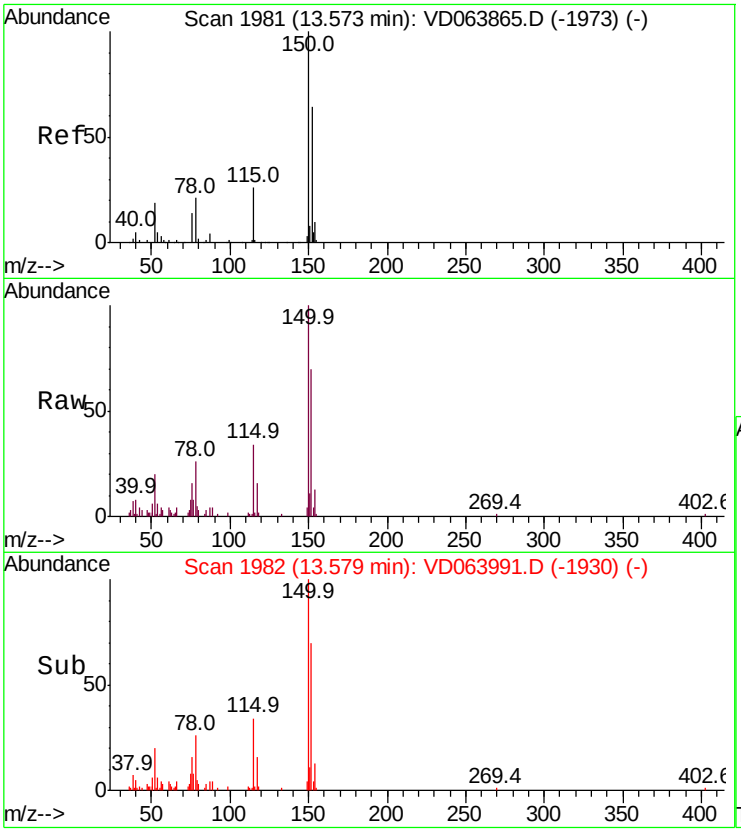




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion:117 Resp: 32965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 42.8 | 64.2 |
| 119 | 28.2 | 24.4 | 36.6 |



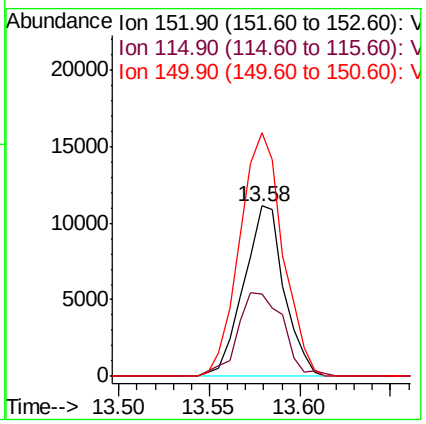


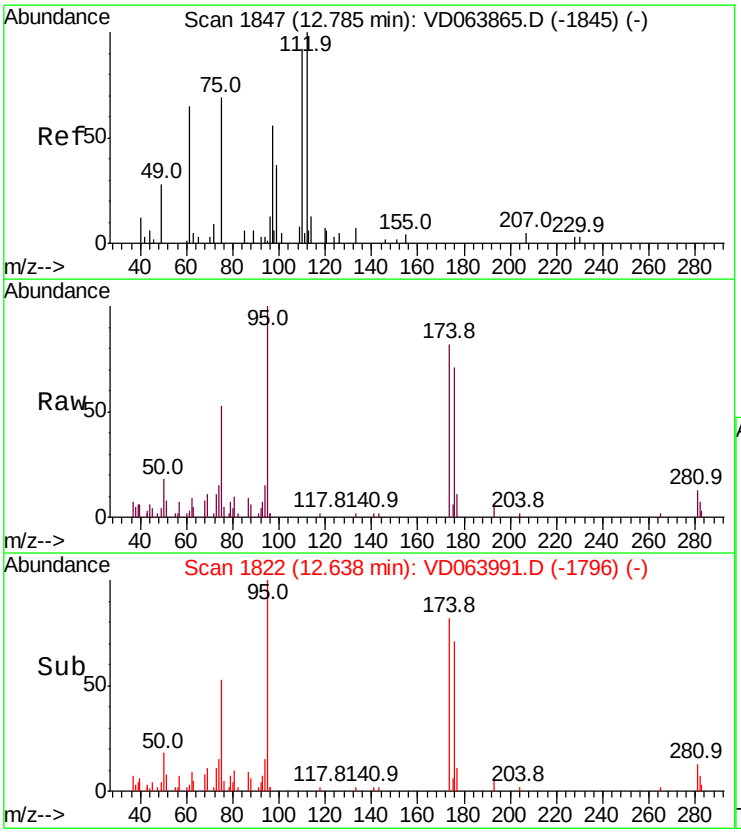

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion:152 Resp: 17244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.5 | 25.9 | 77.7 |
| 150 | 152.0 | 0.0 | 344.2 |

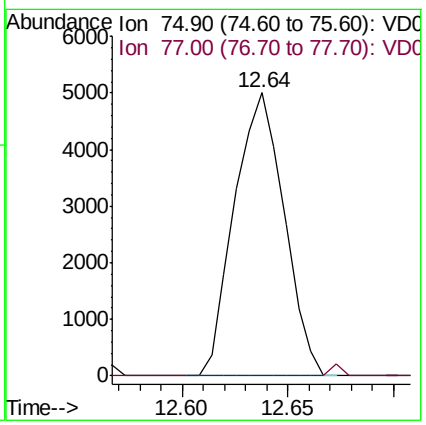


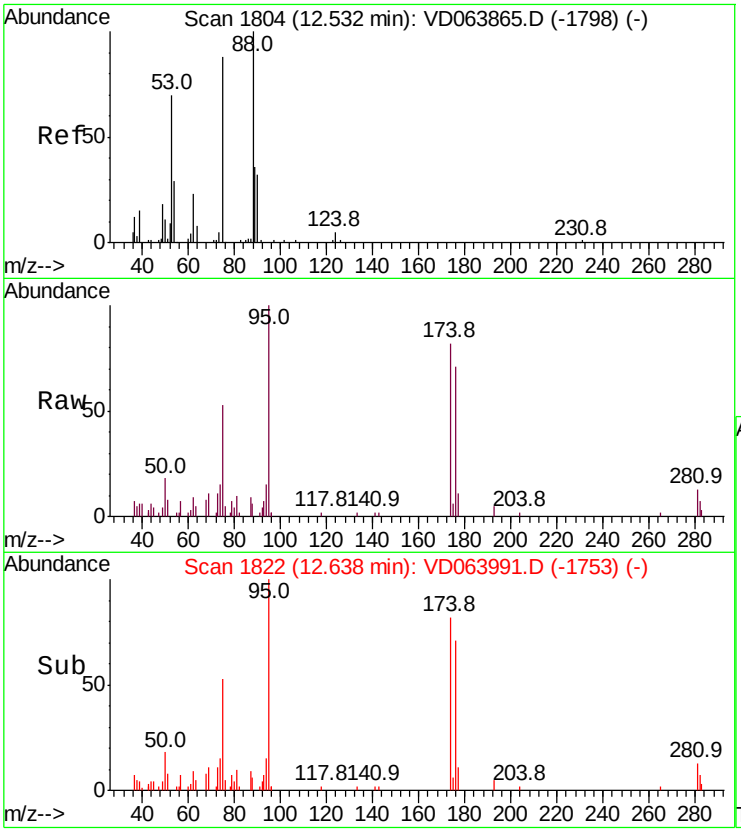




#76
1,2,3-Trichloropropane
Concen: 70.869 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

Tgt Ion: 75 Resp: 8185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 125.409 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD063991.D
Acq: 16 Oct 2019 17:11

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

Tgt Ion: 75 Resp: 8185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 75.0 | 112.6# |
| 89 | 0.0 | 38.2 | 57.4# |