Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101119\
Data File : VN058684.D
Acq On : 10 Oct 2019 22:58
Operator : JC/SP
Sample : K5306-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 391009760.2-VOA

Quant Time: Oct 11 09:06:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 11 04:26:47 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 7.17 | 128 | 71265 | 30.00 | ug/l | 0.00 |
| 28) 1,4-Difluorobenzene | 8.57 | 114 | 399290 | 30.00 | ug/l | 0.00 |
| 57) Chlorobenzene-d5 | 11.41 | 117 | 353824 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 27) 1,2-Dichloroethane-d4 | 8.01 | 65 | 191231 | 31.62 | ug/l | 0.00 |
| Spiked Amount 30.000 | Range 50 - 169 | | Recovery = 105.40% | | | |
| 60) 4-Bromofluorobenzene | 12.40 | 95 | 178736 | 28.88 | ug/l | 0.00 |
| Spiked Amount 30.000 | Range 56 - 143 | | Recovery = 96.27% | | | |
| 63) Toluene-d8 | 10.08 | 98 | 504447 | 30.20 | ug/l | 0.00 |
| Spiked Amount 30.000 | Range 66 - 137 | | Recovery = 100.67% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) Diethyl Ether | 3.39 | 74 | 16001 | 6.394 | ug/l | 89 |
| 15) Acetone | 3.79 | 58 | 12712 | 18.218 | ug/l | 89 |
| 16) Carbon Disulfide | 4.03 | 76 | 5664 | 0.521 | ug/l # | 94 |
| 24) Methyl tert-Butyl Ether | 5.02 | 73 | 34696 | 2.494 | ug/l # | 67 |
| 30) 2-Butanone | 6.80 | 43 | 186742 | 52.576 | ug/l # | 79 |
| 34) Benzene | 8.02 | 78 | 49598 | 2.680 | ug/l # | 24 |
| 36) 1,2-Dichloroethane | 8.11 | 62 | 4548 | 0.643 | ug/l # | 89 |
| 45) 1,4-Dioxane | 9.19 | 88 | 5255 | 60.604 | ug/l # | 83 |
| 58) 4-Methyl-2-Pentanone | 9.98 | 43 | 71505 | 11.078 | ug/l # | 86 |
| 62) Toluene | 10.15 | 91 | 50355 | 2.646 | ug/l | 99 |
| 64) Chlorobenzene | 11.43 | 112 | 8244 | 0.708 | ug/l | 97 |
| 66) Ethyl Benzene | 11.51 | 91 | 17471 | 0.829 | ug/l | 99 |
| 67) m/p-Xylenes | 11.62 | 106 | 69201 | 8.789 | ug/l | 97 |
| 68) o-Xylene | 11.95 | 106 | 40907 | 5.359 | ug/l | 97 |
| 70) Isopropylbenzene | 12.25 | 105 | 17429 | 0.846 | ug/l | 99 |
| 76) 1,3,5-Trimethylbenzene | 12.74 | 105 | 12220 | 0.692 | ug/l | 88 |
| 80) 1,2,4-Trimethylbenzene | 13.04 | 105 | 43850 | 2.500 | ug/l | 97 |
| 84) 1,4-Dichlorobenzene | 13.37 | 146 | 30503 | 3.372 | ug/l | 98 |
| 87) 1,2-Dichlorobenzene | 13.66 | 146 | 3444 | 0.385 | ug/l | 91 |
| 91) Naphthalene | 15.13 | 128 | 35248 | 2.114 | ug/l | 98 |

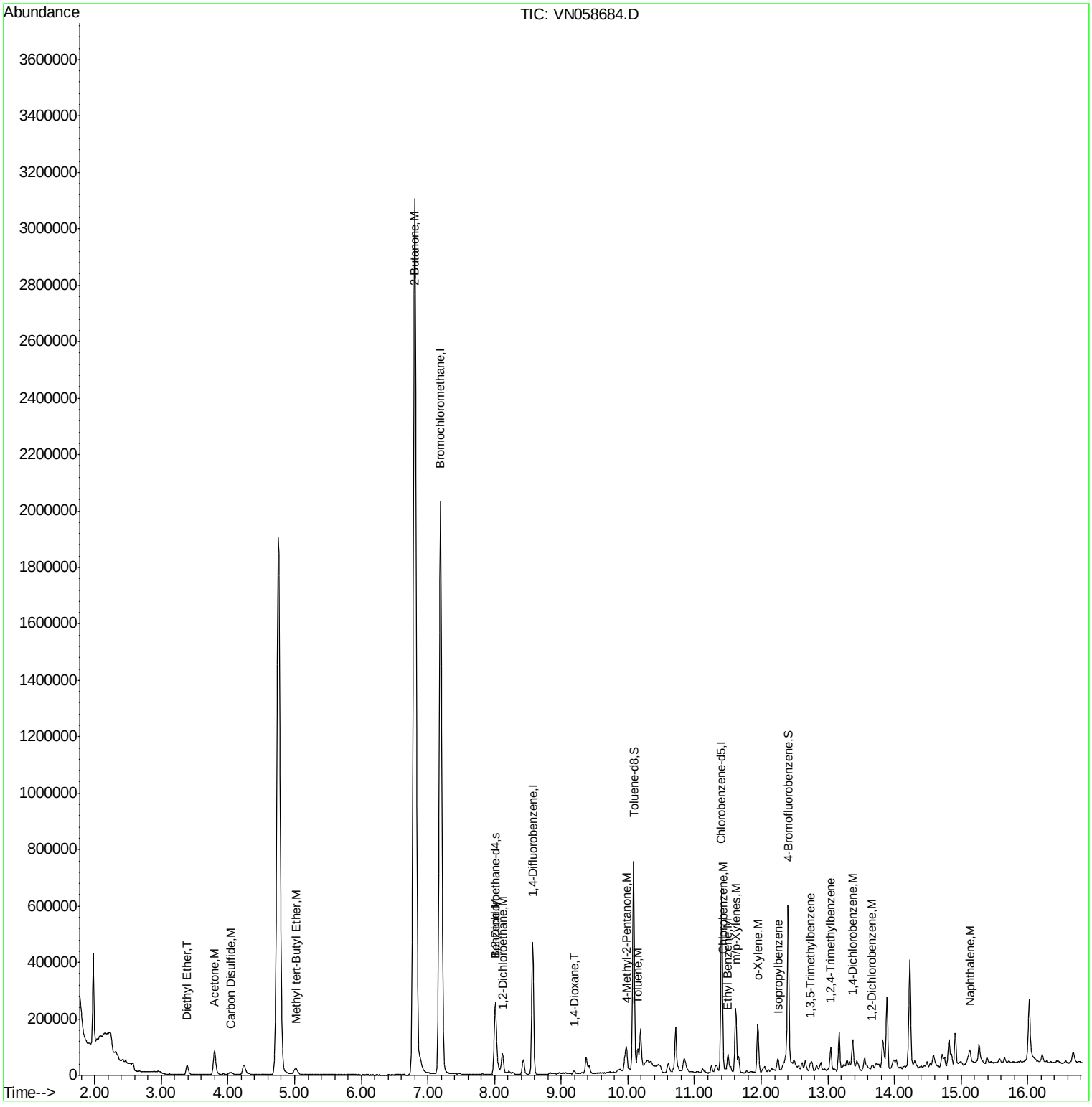
(#) = qualifier out of range (m) = manual integration (+) = signals summed

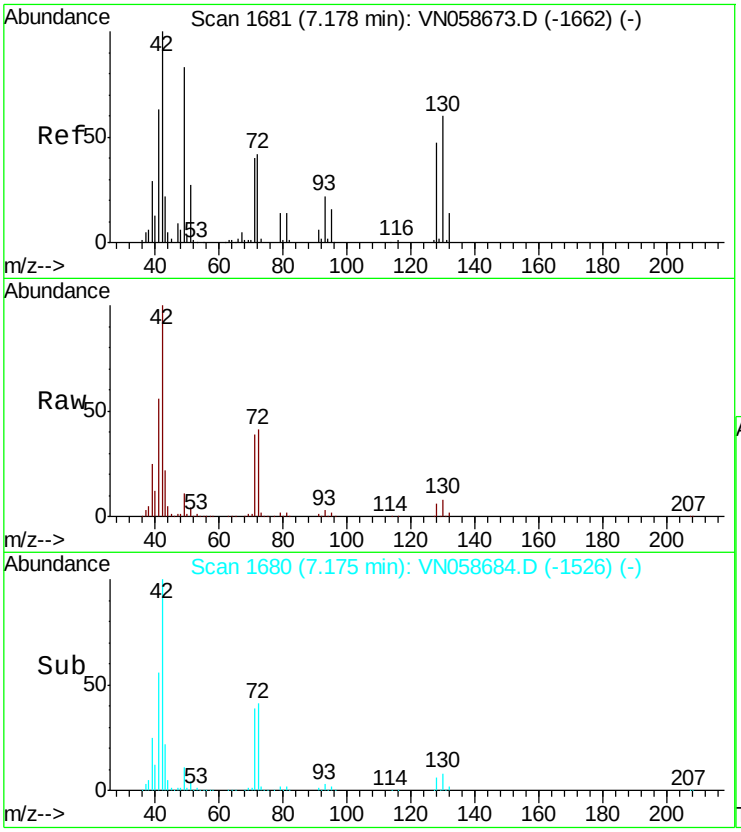
Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101119\
Data File : VN058684.D
Acq On : 10 Oct 2019 22:58
Operator : JC/SP
Sample : K5306-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Quant Time: Oct 11 09:06:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 11 04:26:47 2019
Response via : Initial Calibration



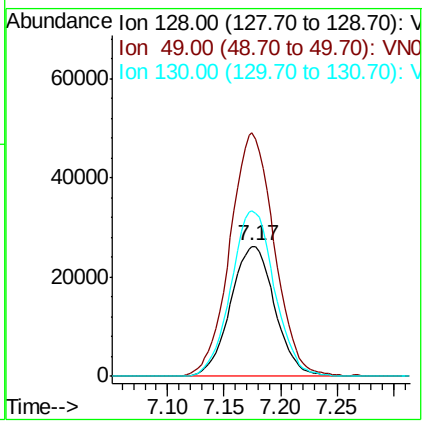


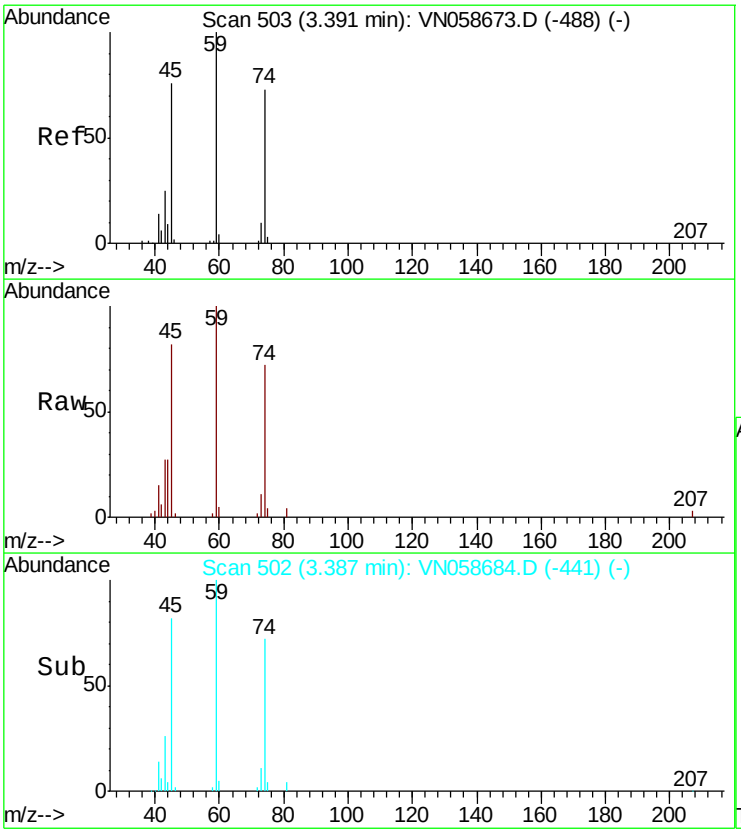

#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:128 Resp: 71265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 187.3 | 0.0 | 453.5 |
| 130 | 125.4 | 0.0 | 314.2 |

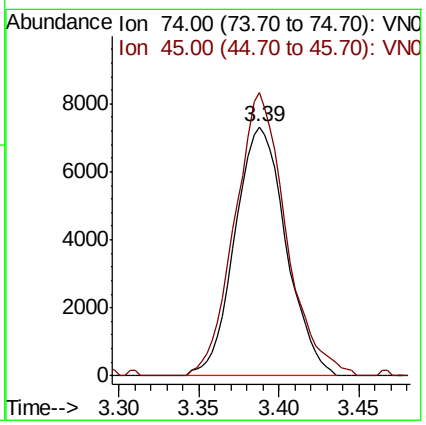


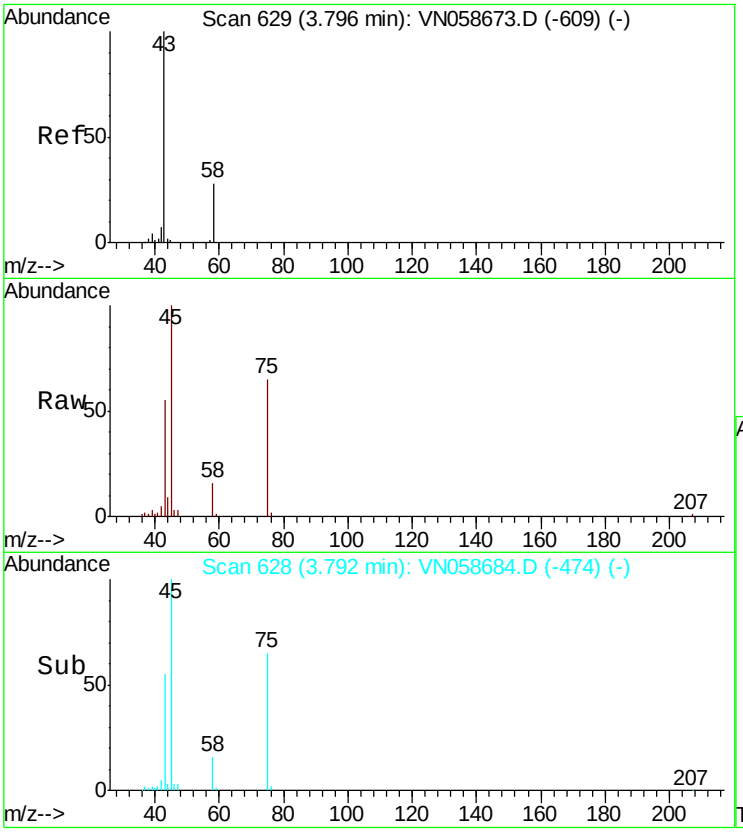




#8
Diethyl Ether
Concen: 6.394 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 74 Resp: 16001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 114.4 | 20.6 | 185.8 |



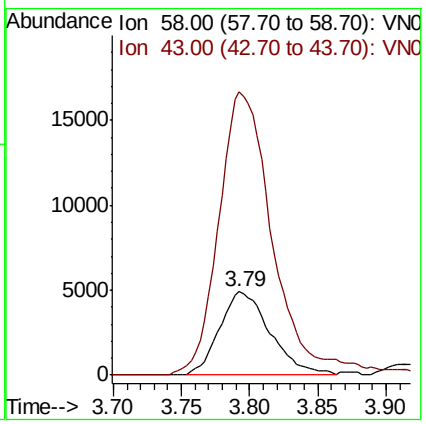


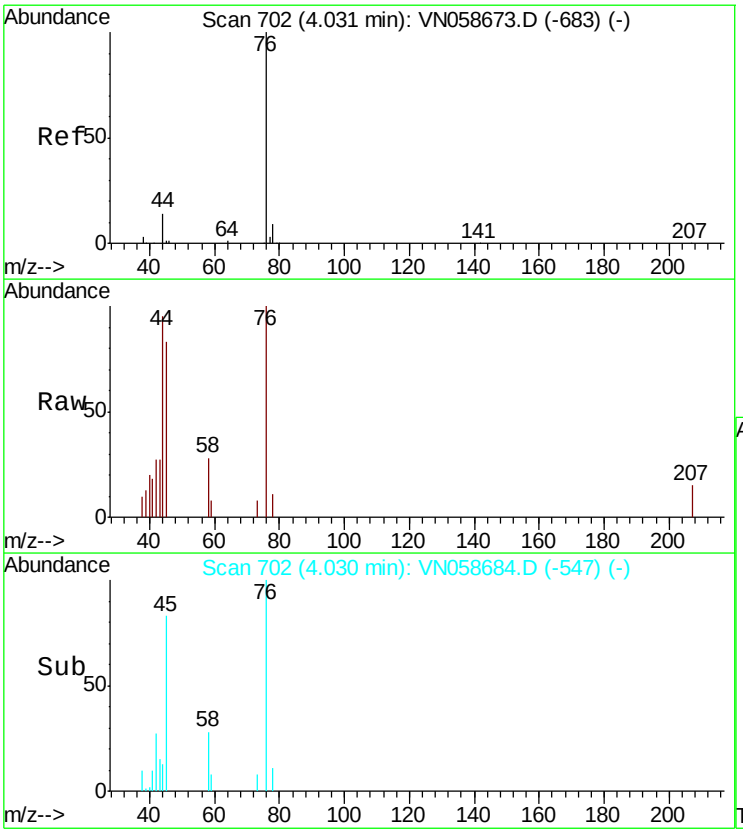

#15
Acetone
Concen: 18.218 ug/l
RT: 3.79 min Scan# 628
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion: 58 Resp: 12712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 327.8 | 281.7 | 422.5 |

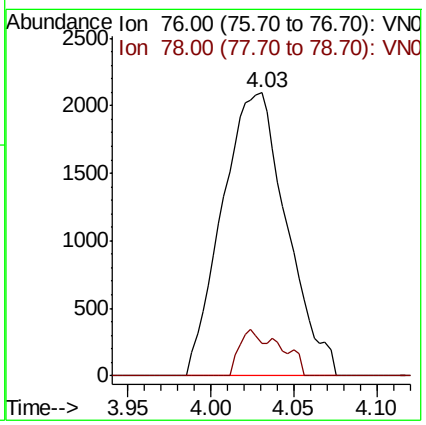


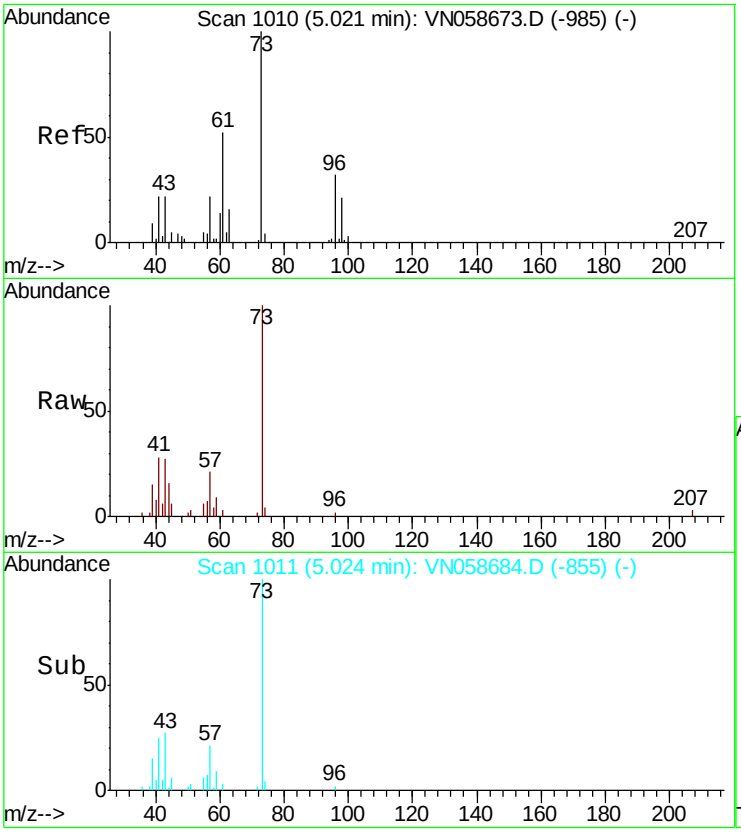




#16
Carbon Disulfide
Concen: 0.521 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 76 Resp: 5664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 11.5 | 7.4 | 11.0# |



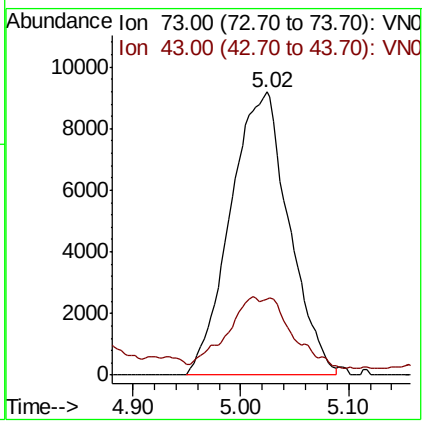


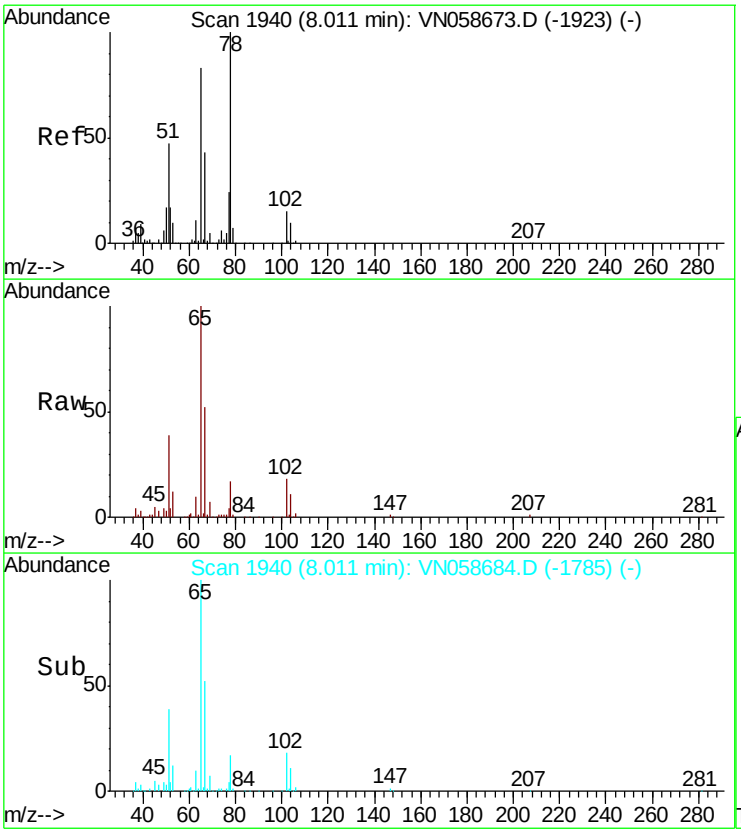

#24
Methyl tert-Butyl Ether
Concen: 2.494 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion: 73 Resp: 34696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 6.7 | 17.9 | 26.9# |

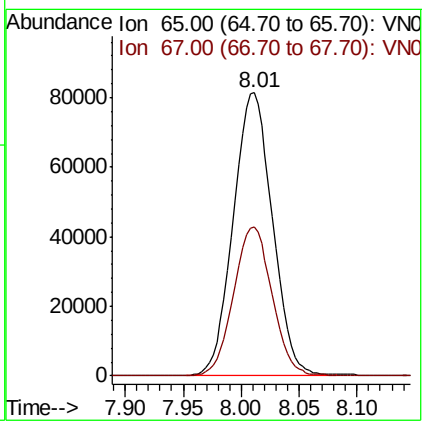


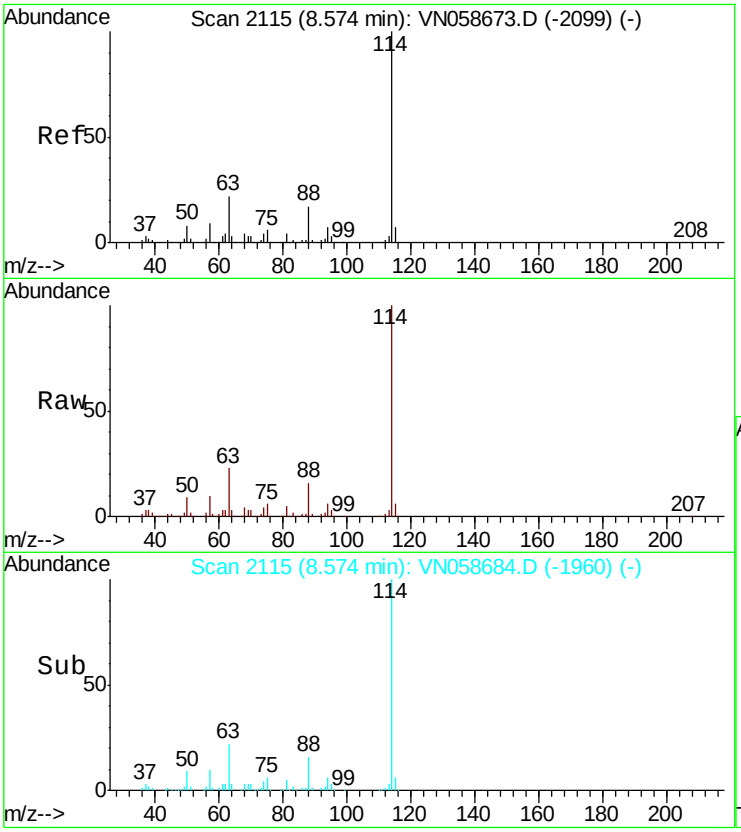




#27
1,2-Dichloroethane-d4
Concen: 31.616 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 65 Resp: 191231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.8 | 41.5 | 62.3 |



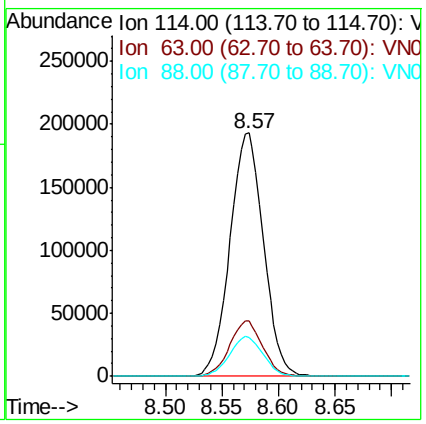


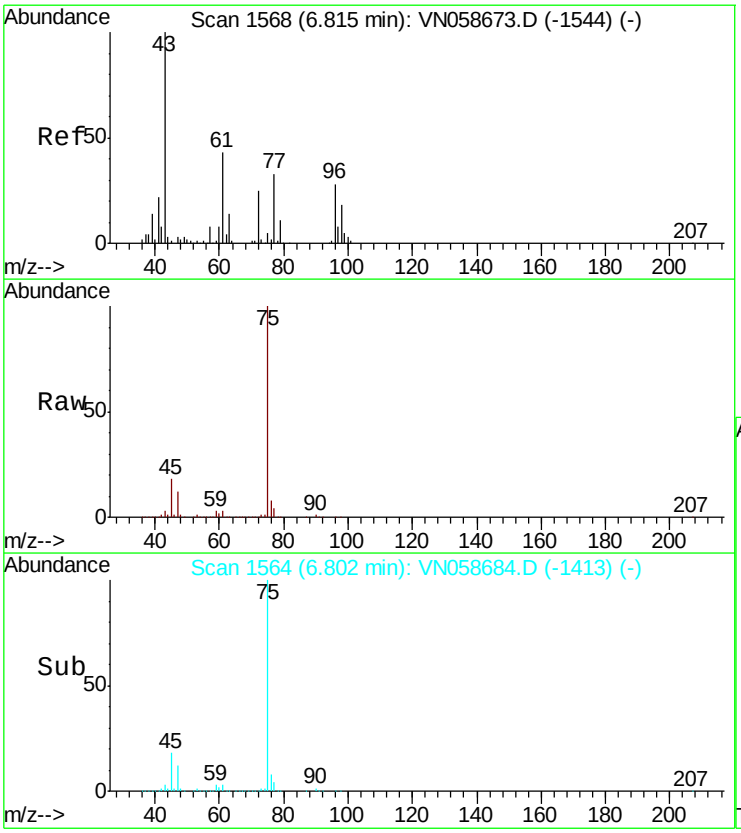

#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:114 Resp: 399290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.3 | 18.1 | 27.1 |
| 88 | 16.4 | 13.0 | 19.4 |

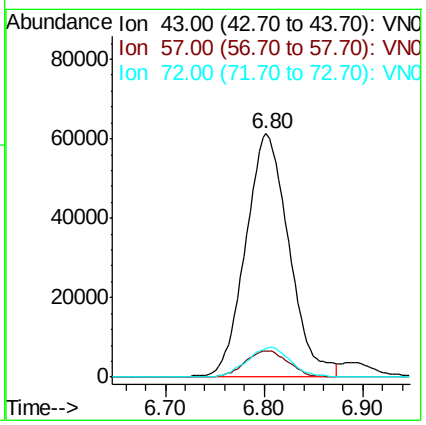


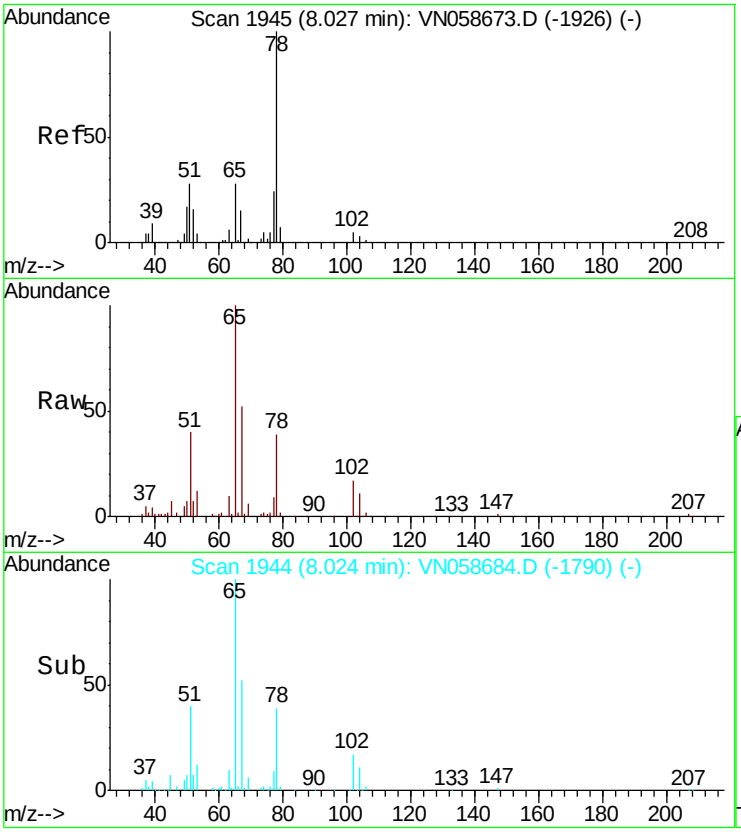




#30
2-Butanone
Concen: 52.576 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 43 Resp: 186742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 10.9 | 6.5 | 9.7# |
| 72 | 12.3 | 20.1 | 30.1# |



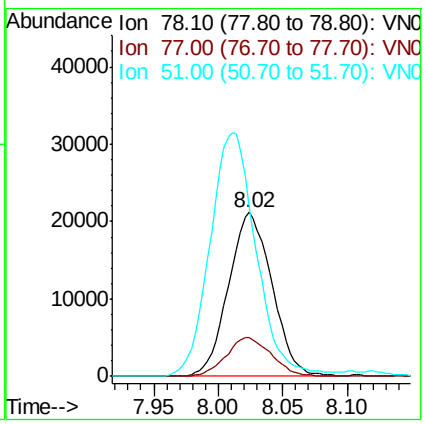


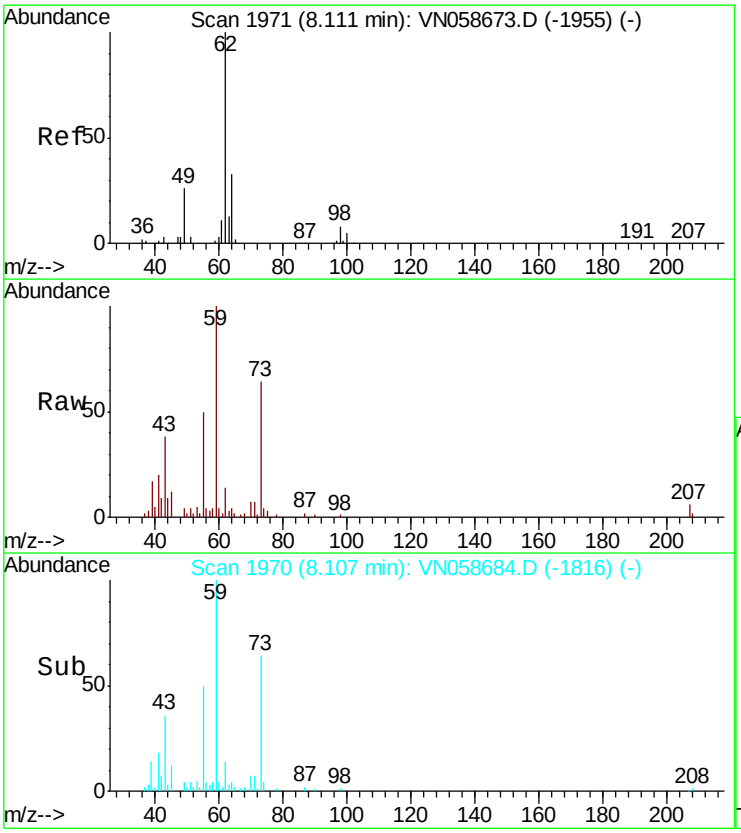

#34
Benzene
Concen: 2.680 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion: 78 Resp: 49598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 19.2 | 28.8 |
| 51 | 101.2 | 22.1 | 33.1# |

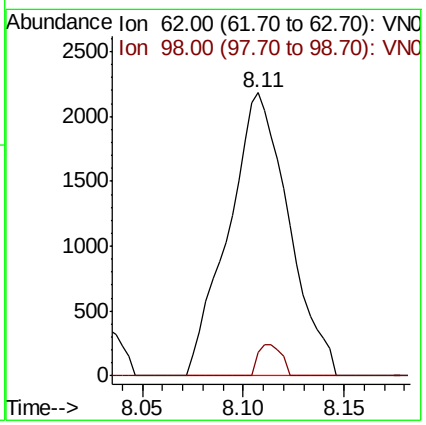


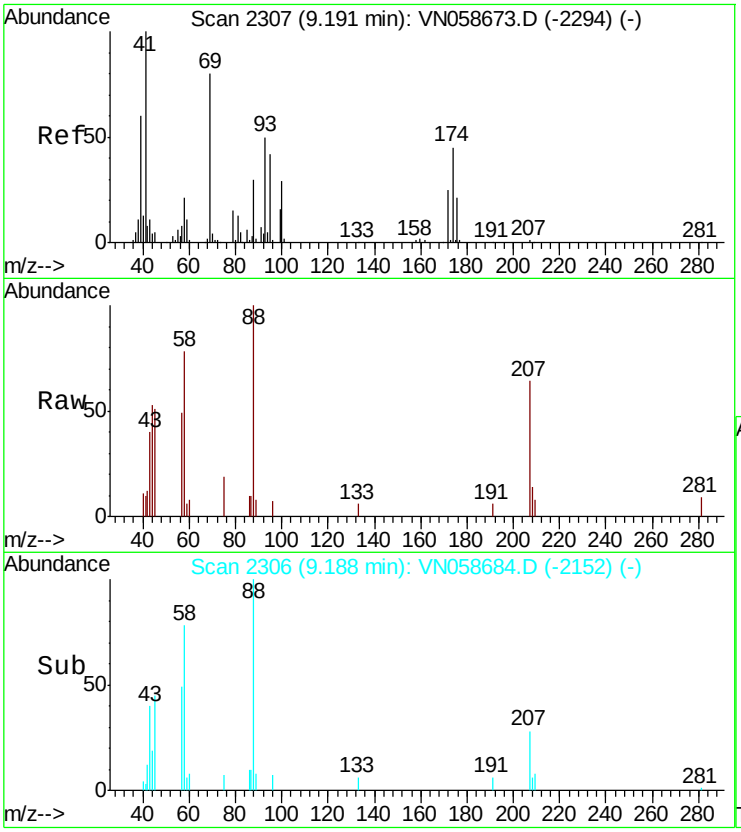




#36
1,2-Dichloroethane
Concen: 0.643 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 62 Resp: 4548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 4.3 | 6.4 | 9.6# |



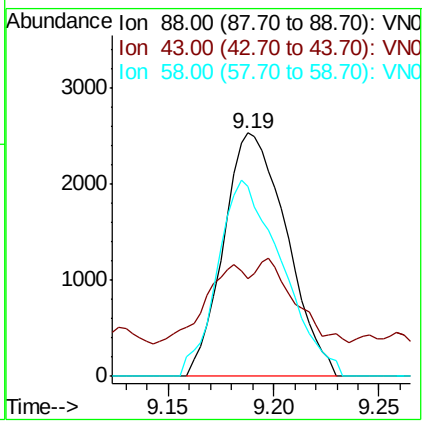


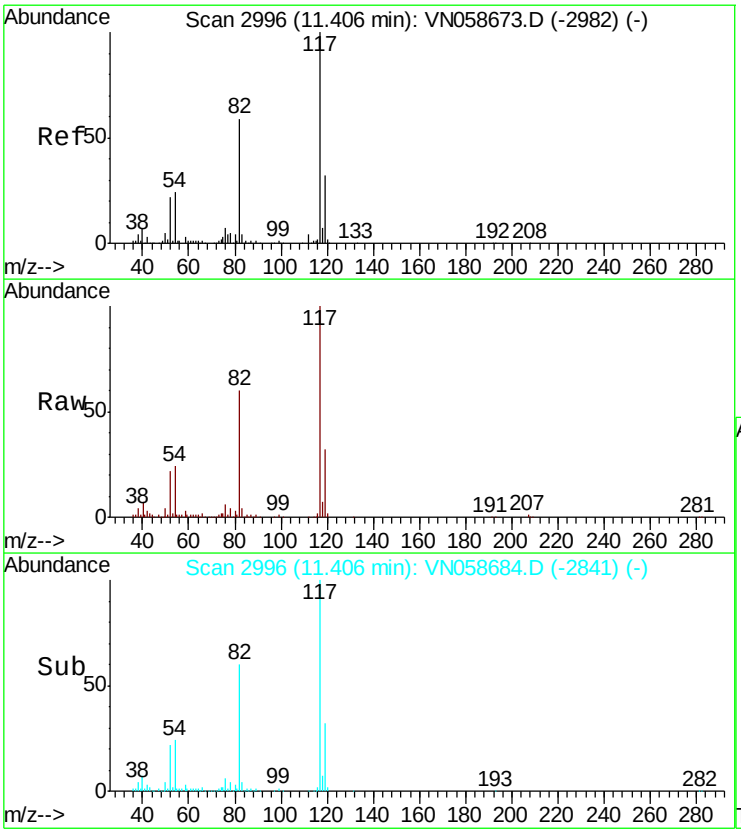

#45
1,4-Dioxane
Concen: 60.604 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion: 88 Resp: 5255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.6 | 29.8 | 44.8# |
| 58 | 82.7 | 58.2 | 87.4 |

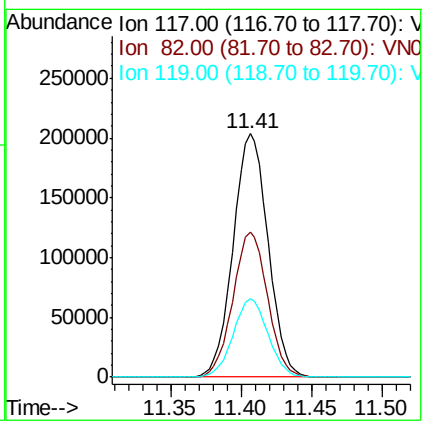


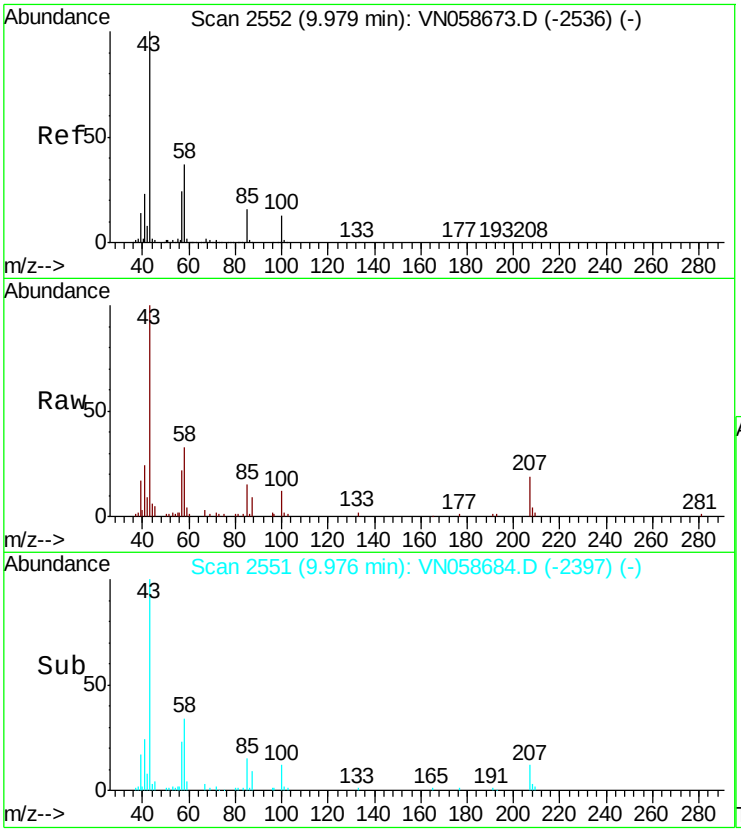




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion:117 Resp: 353824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.8 | 46.9 | 70.3 |
| 119 | 32.0 | 25.8 | 38.6 |



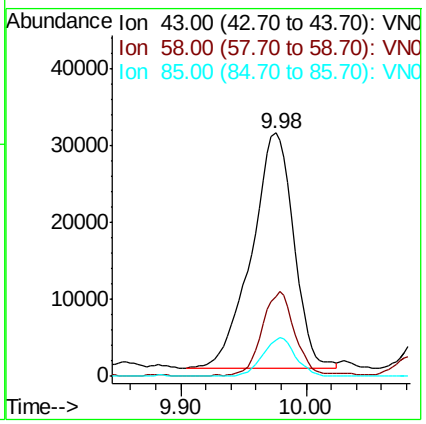


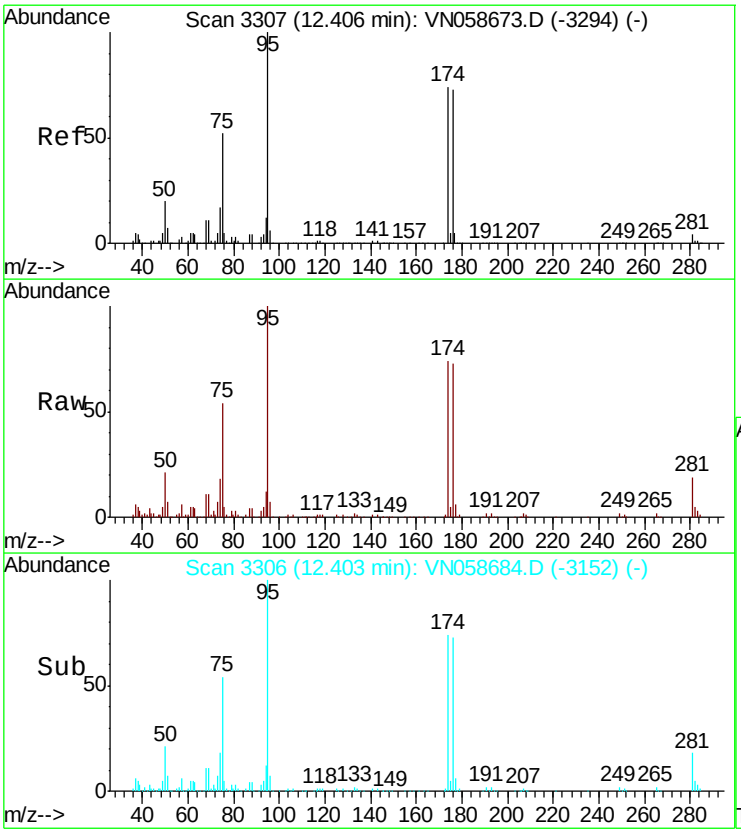

#58
4-Methyl-2-Pentanone
Concen: 11.078 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :** MSVOA_N
**ClientSampleId :** 391009760.2-VOA

Tgt Ion: 43 Resp: 71505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.2 | 30.1 | 45.1# |
| 85 | 12.7 | 13.2 | 19.8# |

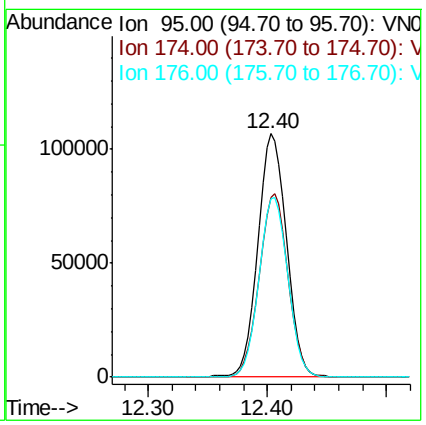


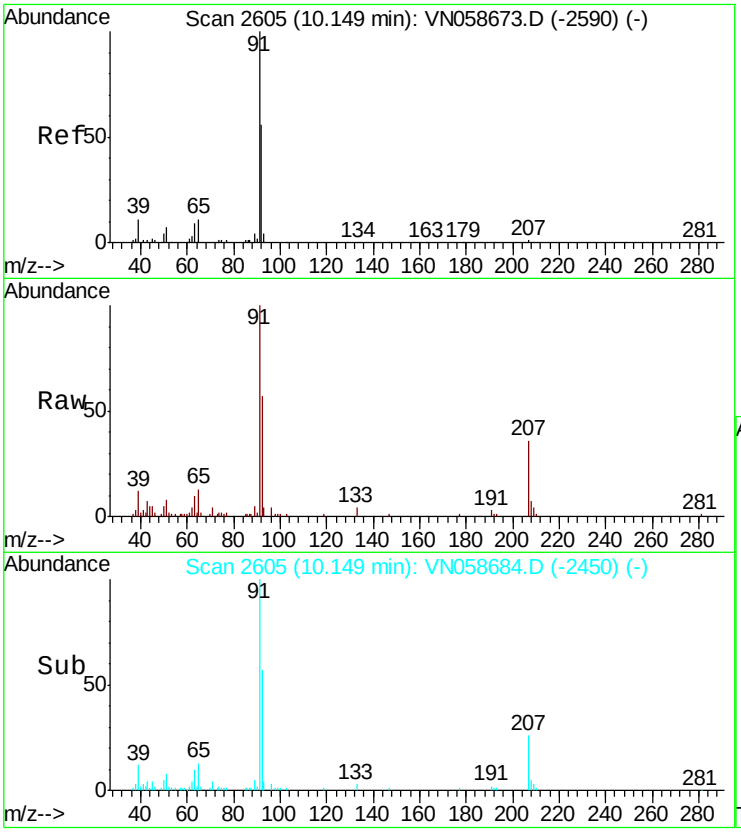




#60
4-Bromofluorobenzene
Concen: 28.878 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 95 Resp: 178736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.5 | 59.9 | 89.9 |
| 176 | 74.2 | 58.3 | 87.5 |



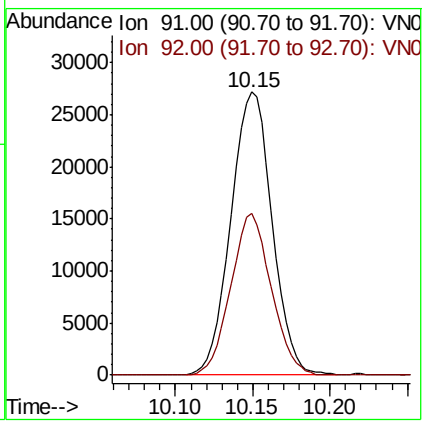


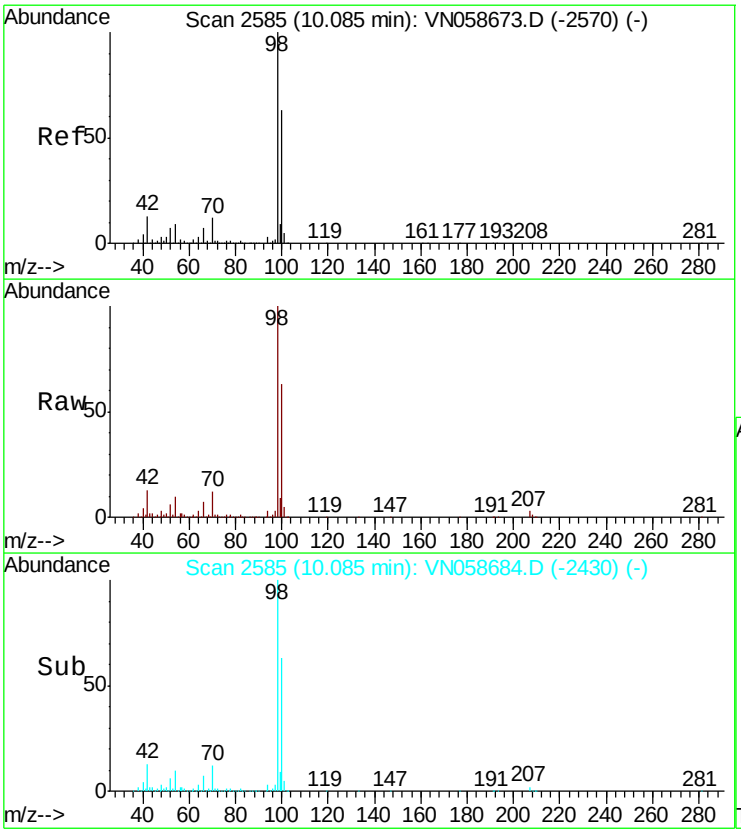

#62
Toluene
Concen: 2.646 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion: 91 Resp: 50355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.0 | 45.4 | 68.2 |

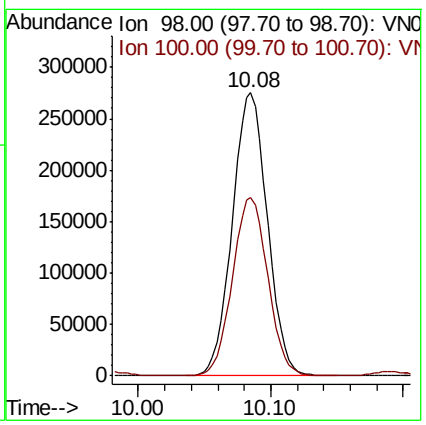


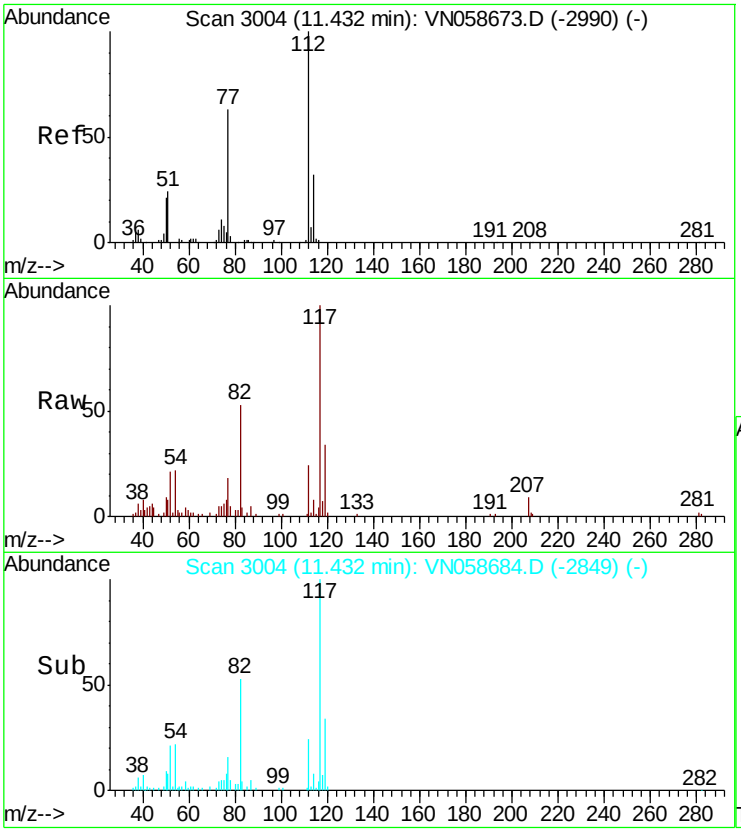




#63
Toluene-d8
Concen: 30.195 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 98 Resp: 504447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.8 | 50.6 | 75.8 |



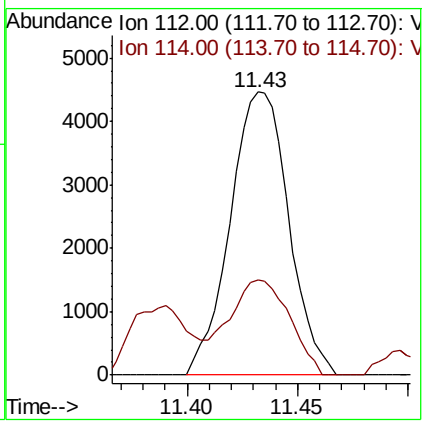


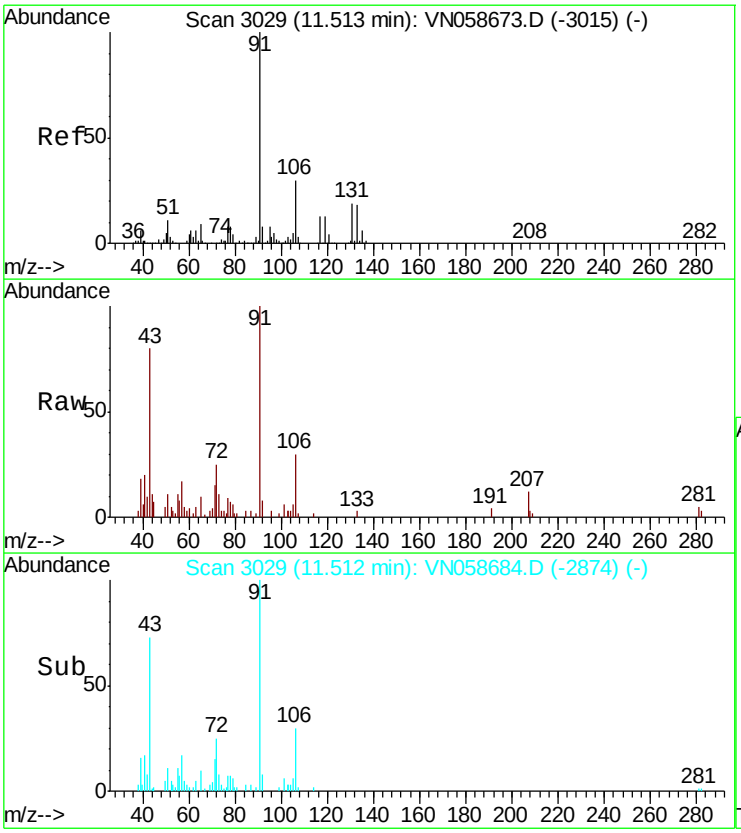

#64
Chlorobenzene
Concen: 0.708 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:112 Resp: 8244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.6 | 25.7 | 38.5 |

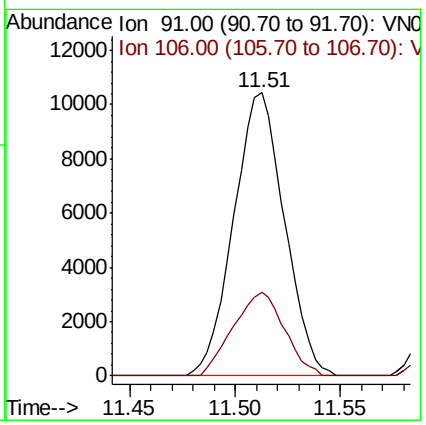


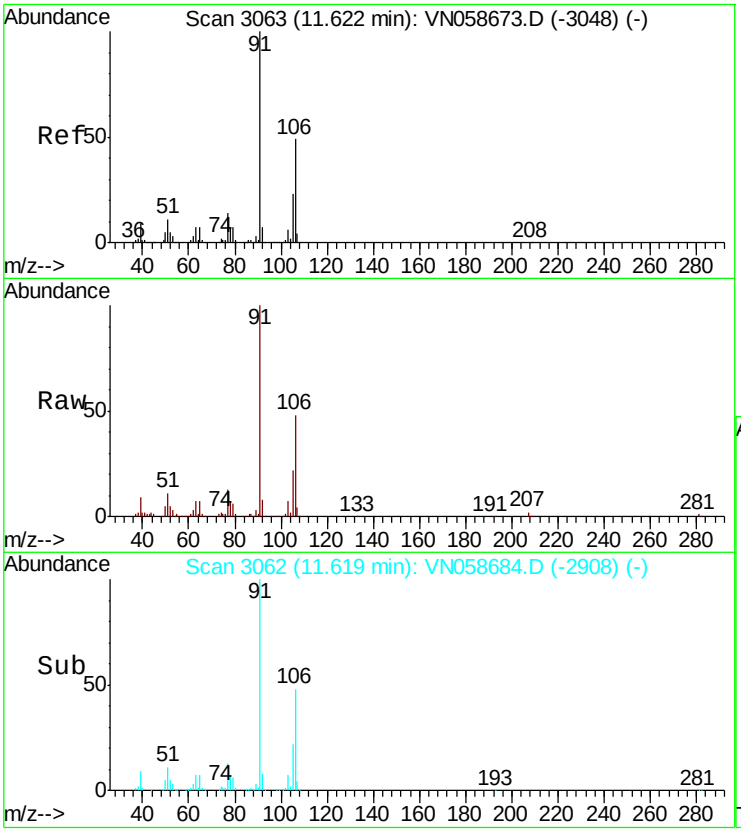




#66
Ethyl Benzene
Concen: 0.829 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion: 91 Resp: 17471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.5 | 24.2 | 36.4 |



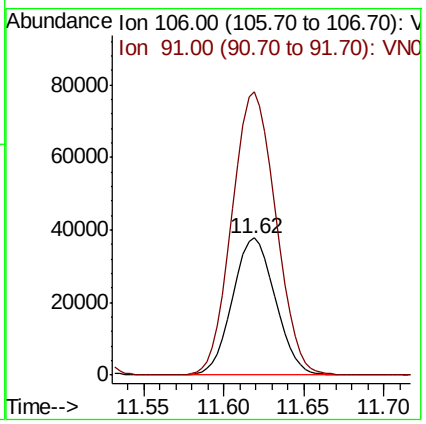


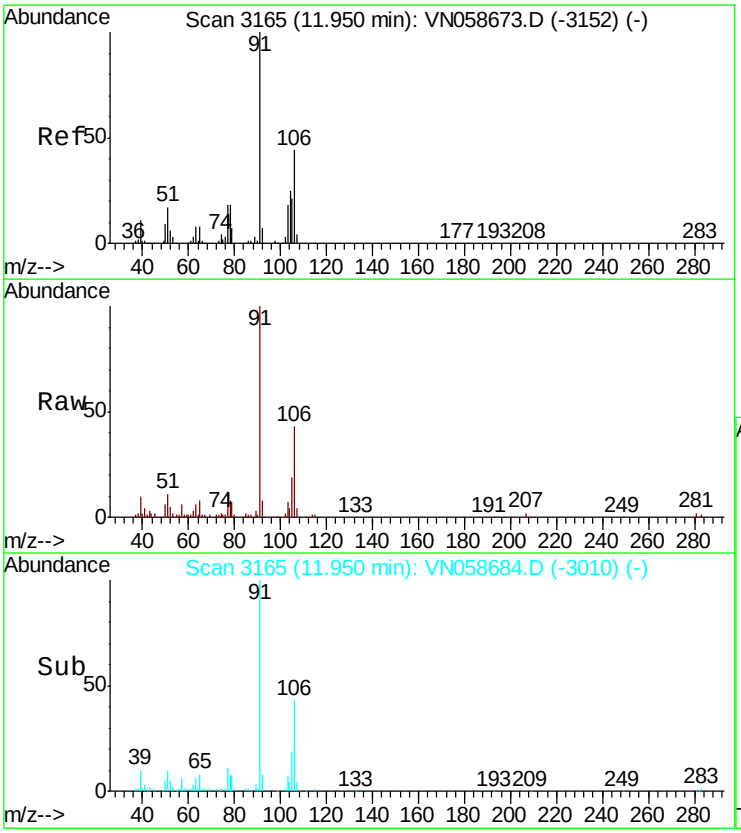

#67
m/p-Xylenes
Concen: 8.789 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:106 Resp: 69201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.8 | 165.6 | 248.4 |

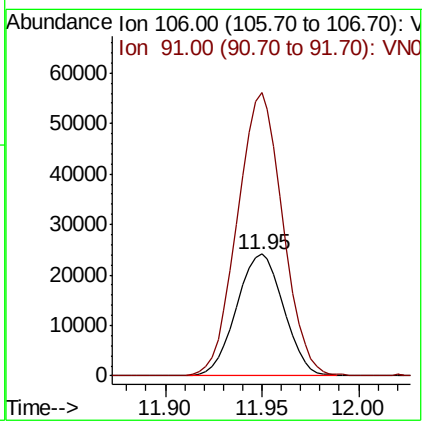


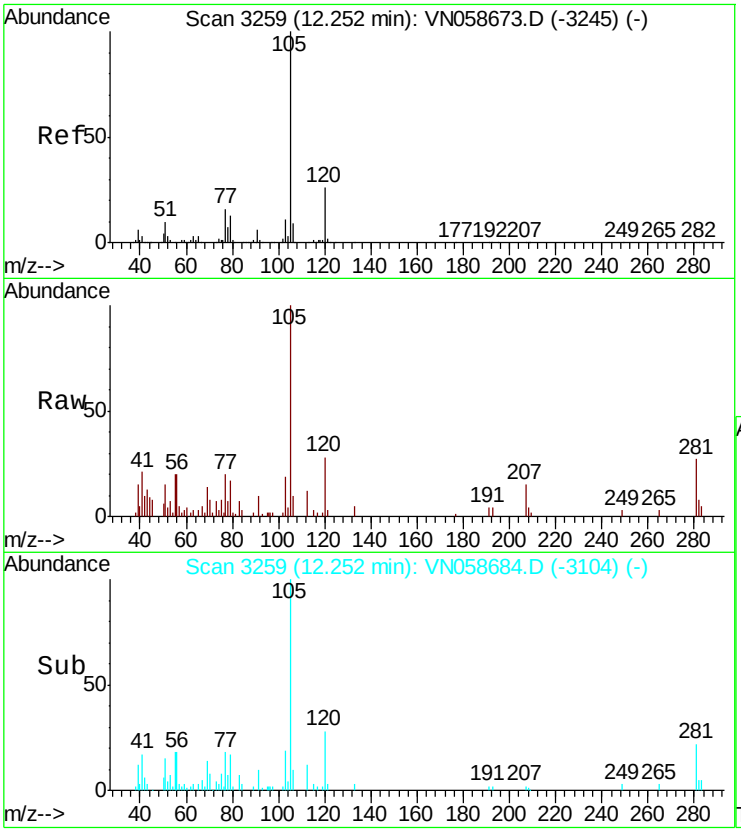




#68
o-Xylene
Concen: 5.359 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion:106 Resp: 40907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 224.2 | 109.8 | 329.4 |



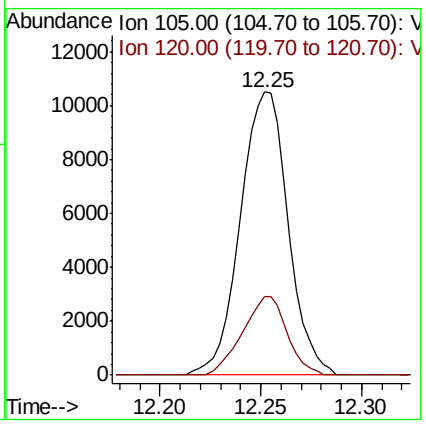


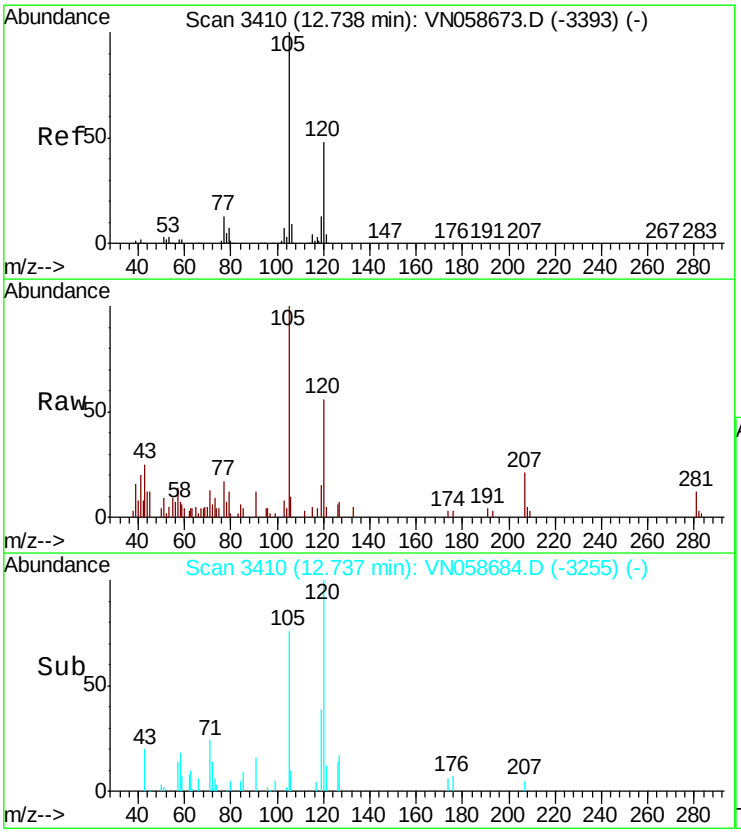

#70
Isopropylbenzene
Concen: 0.846 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:105 Resp: 17429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.8 | 18.4 | 34.2 |

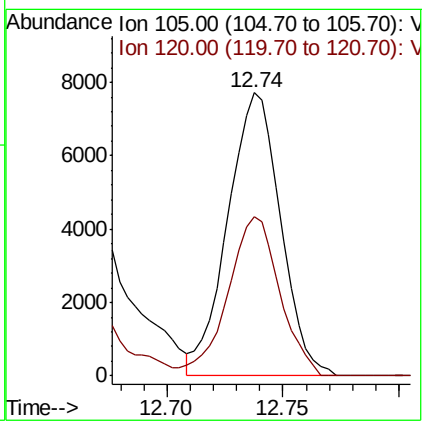


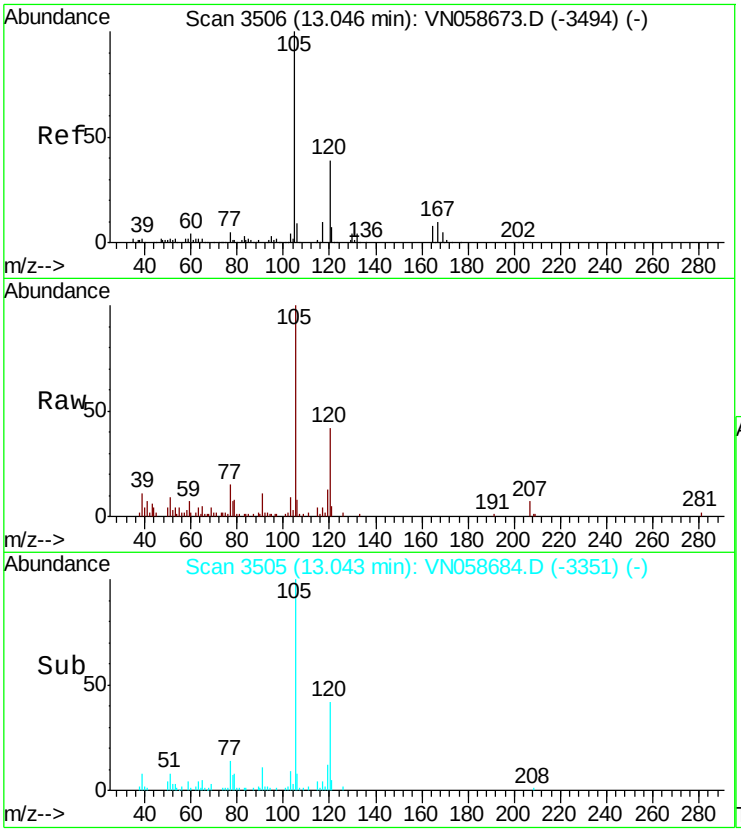




#76
1,3,5-Trimethylbenzene
Concen: 0.692 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion:105 Resp: 12220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 55.0 | 0.0 | 94.0 |



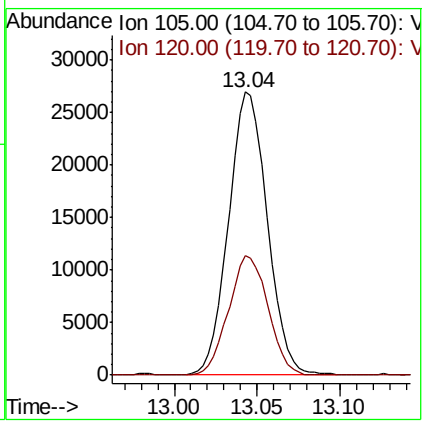


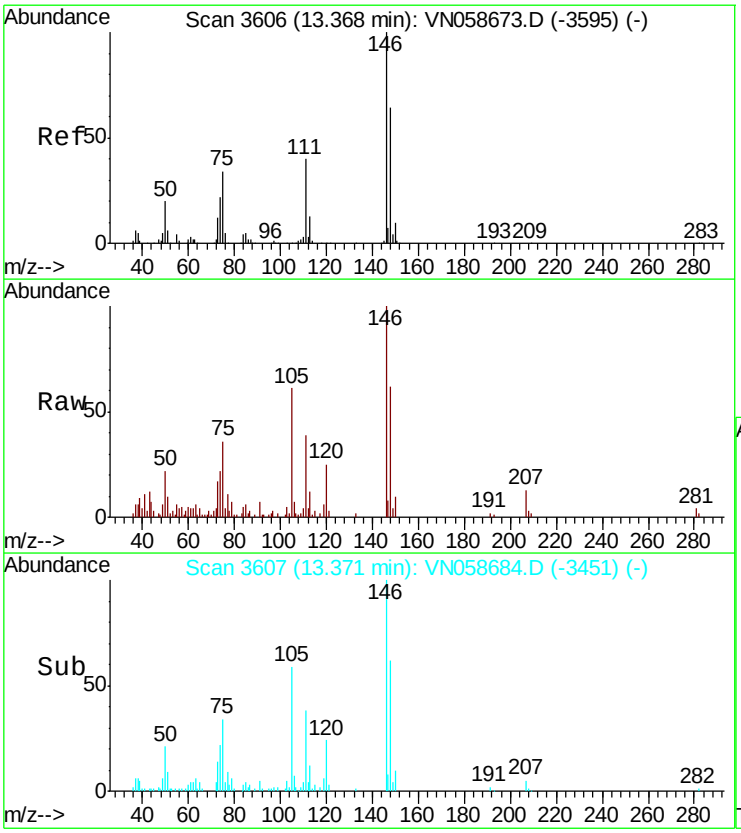

#80
1,2,4-Trimethylbenzene
Concen: 2.500 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:105 Resp: 43850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.7 | 0.0 | 89.2 |

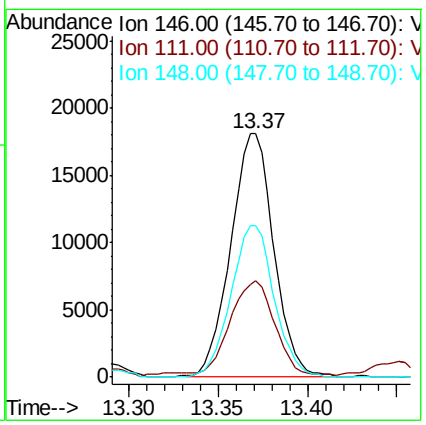


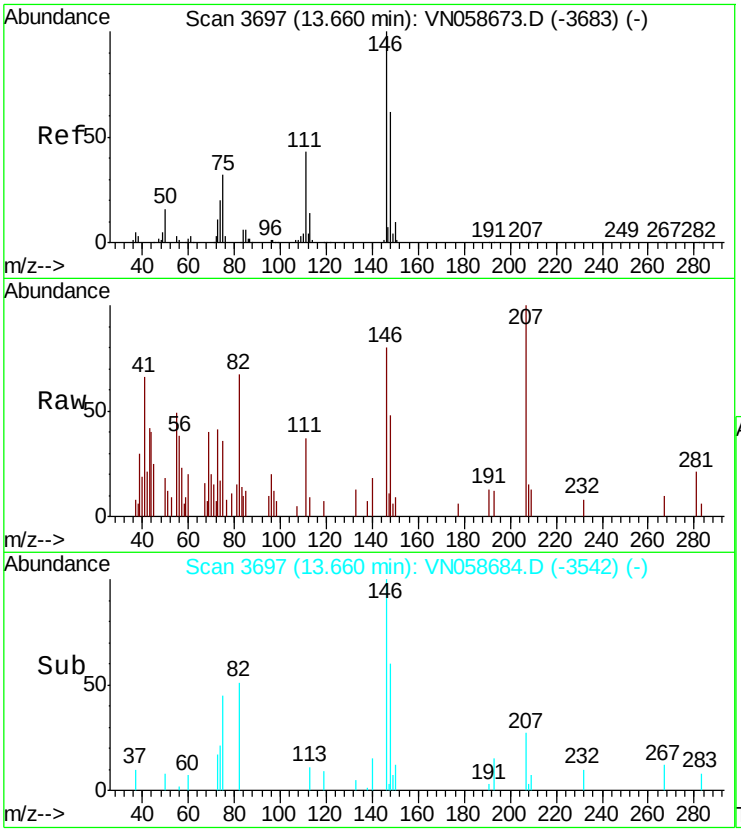




#84
1,4-Dichlorobenzene
Concen: 3.372 ug/l
RT: 13.37 min Scan# 3607
Delta R.T. 0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion:146 Resp: 30503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 19.8 | 59.4 |
| 148 | 62.5 | 31.6 | 94.8 |



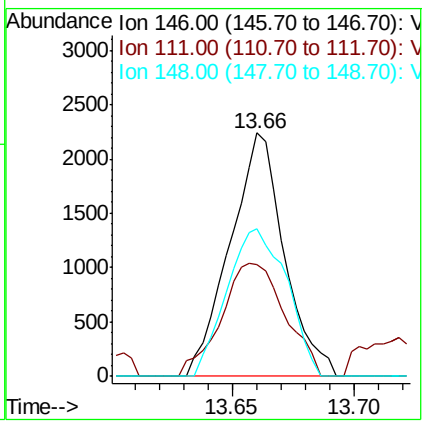


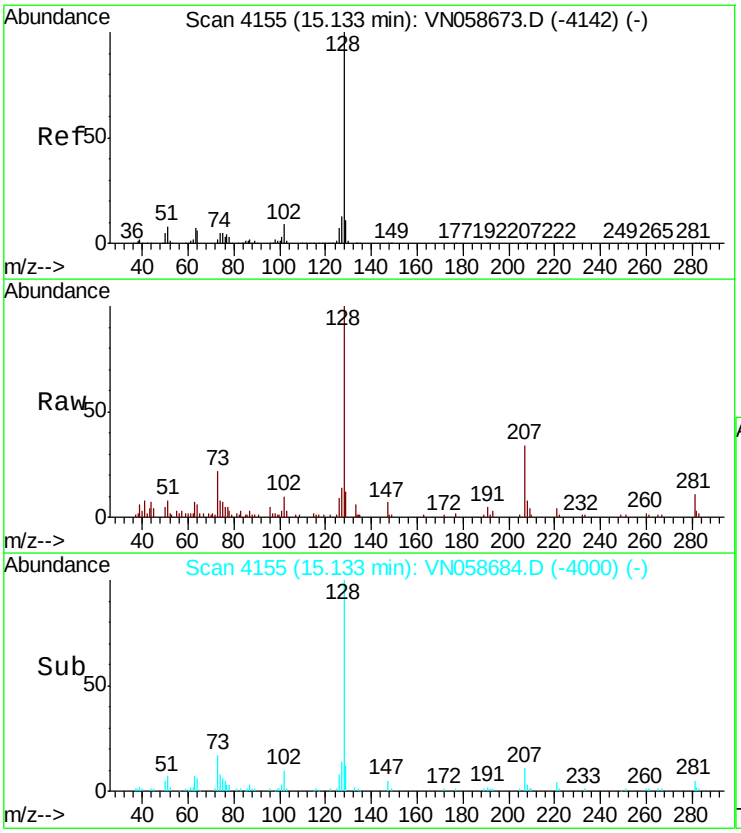

#87
1,2-Dichlorobenzene
Concen: 0.385 ug/l
RT: 13.66 min Scan# 3697
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
391009760.2-VOA

Tgt Ion:146 Resp: 3444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 54.7 | 21.8 | 65.4 |
| 148 | 67.4 | 32.1 | 96.5 |




#91
Naphthalene
Concen: 2.114 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058684.D
Acq: 10 Oct 2019 22:58

Tgt Ion:128 Resp: 35248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.2 | 15.2 |
| 129 | 11.5 | 8.6 | 13.0 |