Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101818\

Quantitation Report (Not Reviewed)

Data File : VN051927.D
Acq On : 18 Oct 2018 20:02
Operator : MD\SY
Sample : PB113908ZHE#08
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** PB113908ZHE#08

Quant Time: Oct 19 06:51:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.67 | 168 | 962545 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.59 | 114 | 1430804 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.41 | 117 | 1240586 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152 | 419246 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.03 | 65 | 531668 | 59.58 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 119.16% | | | |
| 35) Dibromofluoromethane | 7.59 | 113 | 536528 | 59.00 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 118.00% | | | |
| 50) Toluene-d8 | 10.09 | 98 | 1936777 | 58.51 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 117.02% | | | |
| 62) 4-Bromofluorobenzene | 12.40 | 95 | 537476 | 48.65 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 97.30% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 2.06 | 50 | 1211 | 0.213 | ug/l # | 73 |
| 5) Bromomethane | 2.57 | 94 | 2014 | Below Cal | # | 75 |
| 11) Tert butyl alcohol | 4.74 | 59 | 226 | 0.433 | ug/l # | 72 |
| 13) Acrolein | 3.41 | 56 | 30 | Below Cal | # | 14 |
| 16) Acetone | 3.82 | 43 | 9317 | 5.897 | ug/l | 96 |
| 18) Methyl Acetate | 4.33 | 43 | 7854 | Below Cal | # | 86 |
| 20) Methylene Chloride | 4.56 | 84 | 13389 | 1.667 | ug/l # | 85 |
| 25) 2-Butanone | 6.84 | 43 | 1158 | 0.513 | ug/l # | 41 |
| 29) Tetrahydrofuran | 7.21 | 42 | 764 | 0.554 | ug/l | 89 |
| 31) Cyclohexane | 7.67 | 56 | 16084 | Below Cal | # | 15 |
| 36) 1,1-Dichloropropene | 7.67 | 75 | 59508 | 5.359 | ug/l # | 47 |
| 37) Ethyl Acetate | 6.91 | 43 | 227 | Below Cal | # | 64 |
| 38) Carbon Tetrachloride | 7.66 | 117 | 85833 | 6.563 | ug/l # | 15 |
| 43) Isopropyl Acetate | 8.17 | 43 | 301117 | 29.298 | ug/l # | 84 |
| 48) Methyl methacrylate | 9.18 | 41 | 5967 | 1.331 | ug/l # | 13 |
| 54) cis-1,3-Dichloropropene | 9.90 | 75 | 2860 | 0.236 | ug/l # | 72 |
| 59) 2-Hexanone | 10.76 | 43 | 16498 | 4.759 | ug/l # | 55 |
| 60) Dibromochloromethane | 10.63 | 129 | 70 | 2.057 | ug/l # | 11 |
| 71) Bromoform | 12.40 | 173 | 4971 | 3.904 | ug/l # | 1 |
| 76) 1,2,3-Trichloropropane | 12.40 | 75 | 268752 | 52.741 | ug/l # | 100 |
| 79) 2-Chlorotoluene | 12.68 | 91 | 97 | Below Cal | # | 36 |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105 | 5264 | 0.201 | ug/l | 93 |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75 | 268752 | 173.309 | ug/l # | 14 |
| 93) 1,2,4-Trichlorobenzene | 14.92 | 180 | 75 | 4.071 | ug/l # | 30 |
| 95) Naphthalene | 15.13 | 128 | 319 | 4.082 | ug/l # | 70 |

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

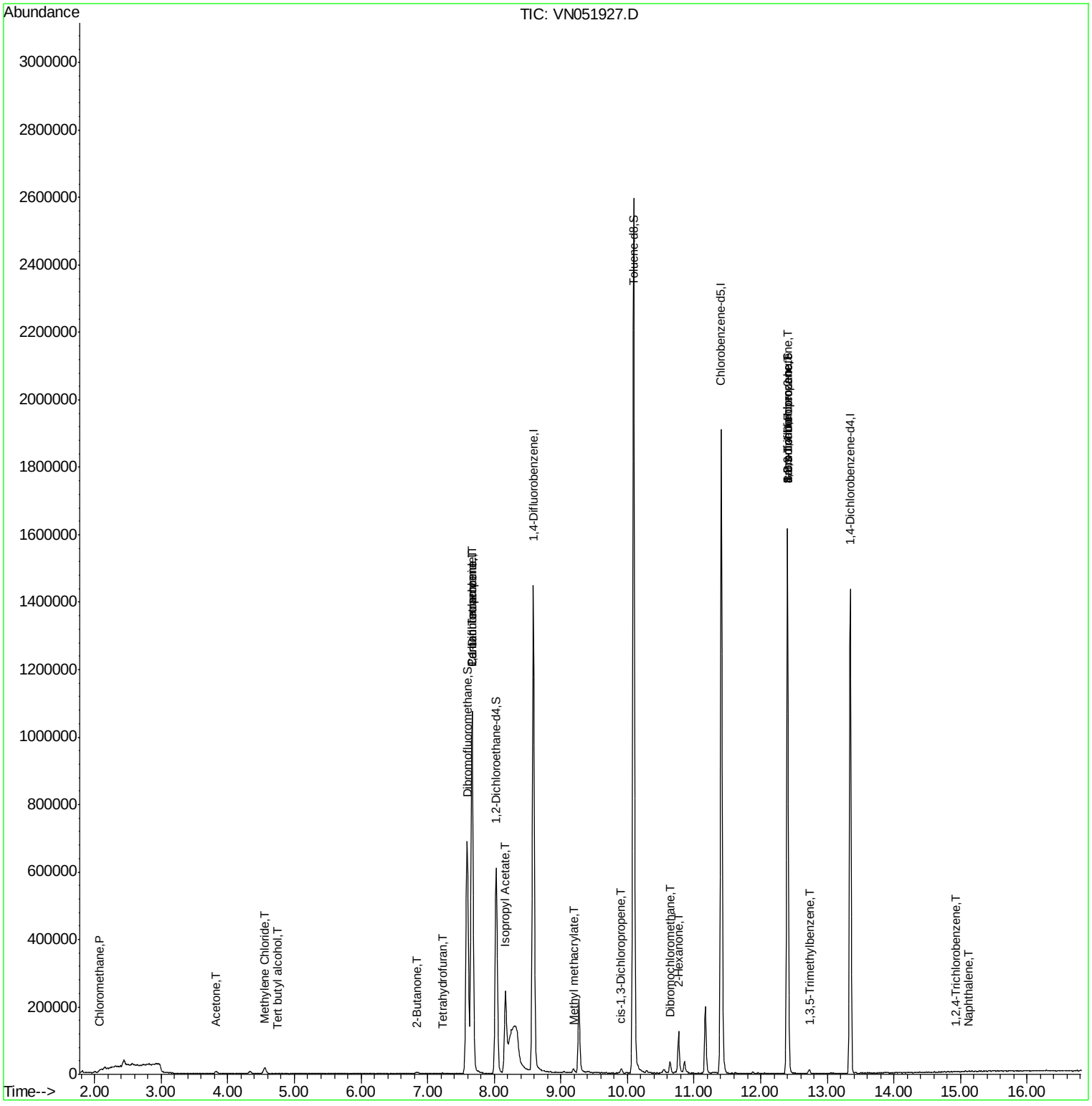
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101818\

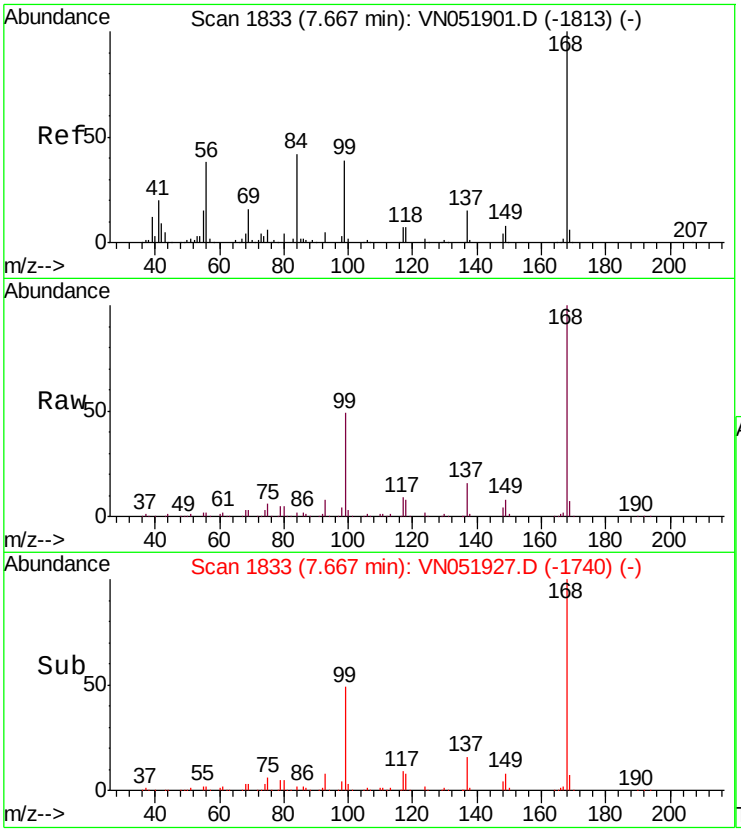
Quantitation Report (Not Reviewed)

Data File : VN051927.D
Acq On : 18 Oct 2018 20:02
Operator : MD\SY
Sample : PB113908ZHE#08
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 28

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Quant Time: Oct 19 06:51:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration



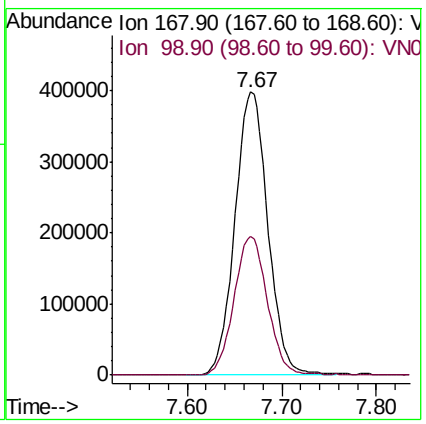


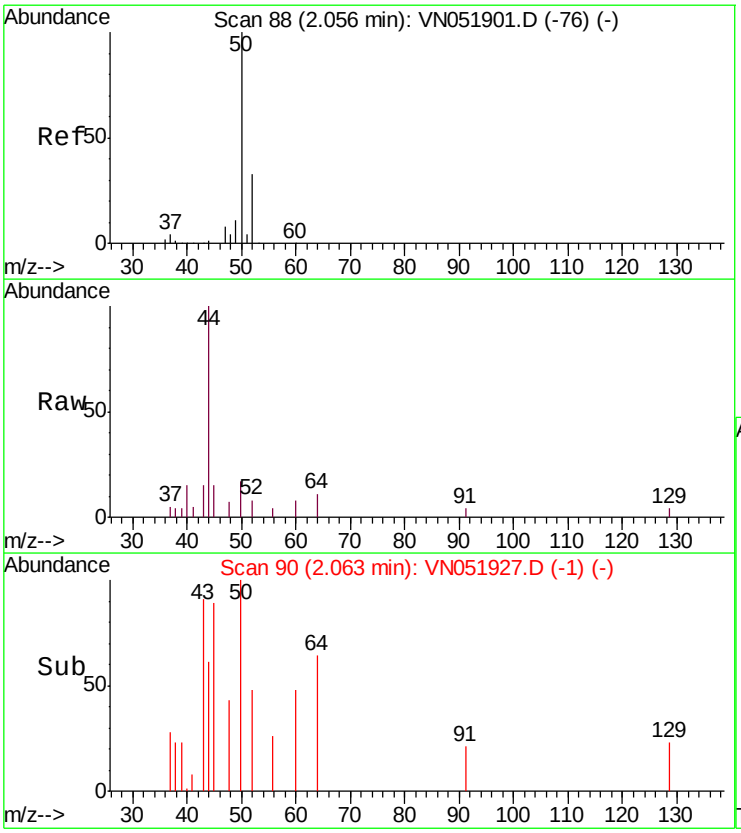

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion:168 Resp: 962545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.1 | 39.2 | 58.8 |

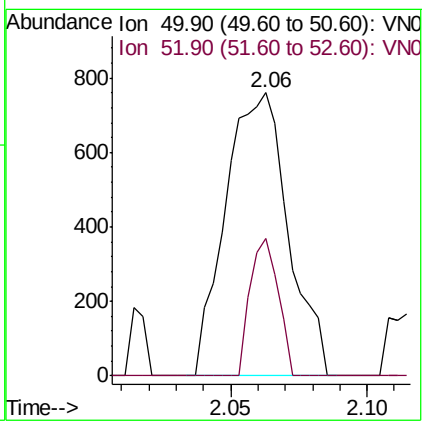


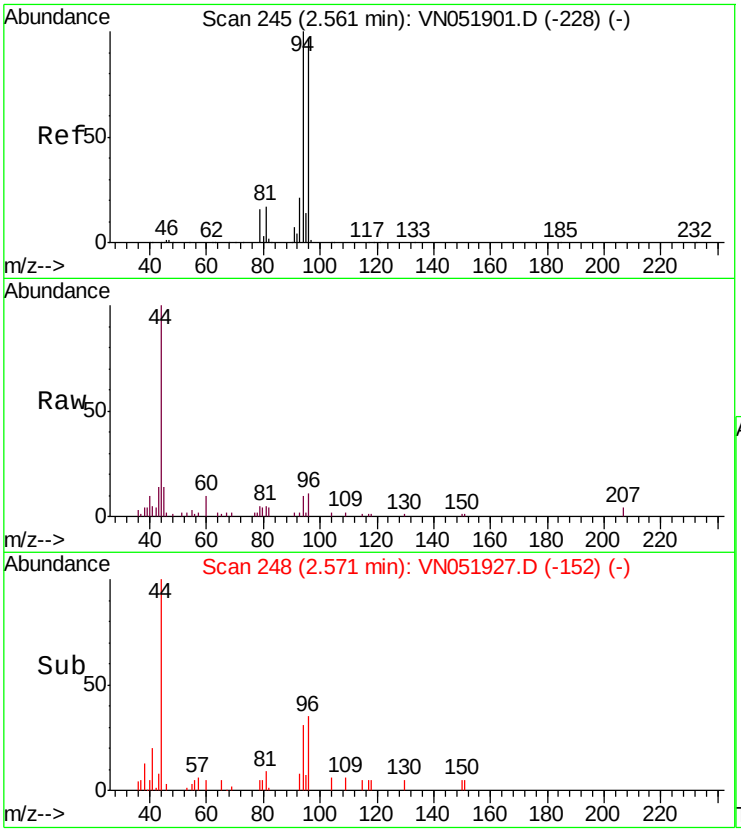




#3
Chloromethane
Concen: 0.213 ug/l
RT: 2.06 min Scan# 90
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 50 Resp: 1211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 48.4 | 26.3 | 39.5# |



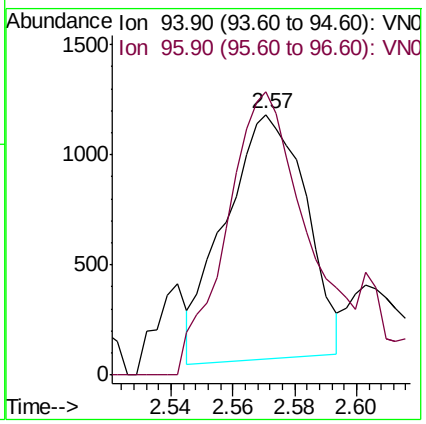


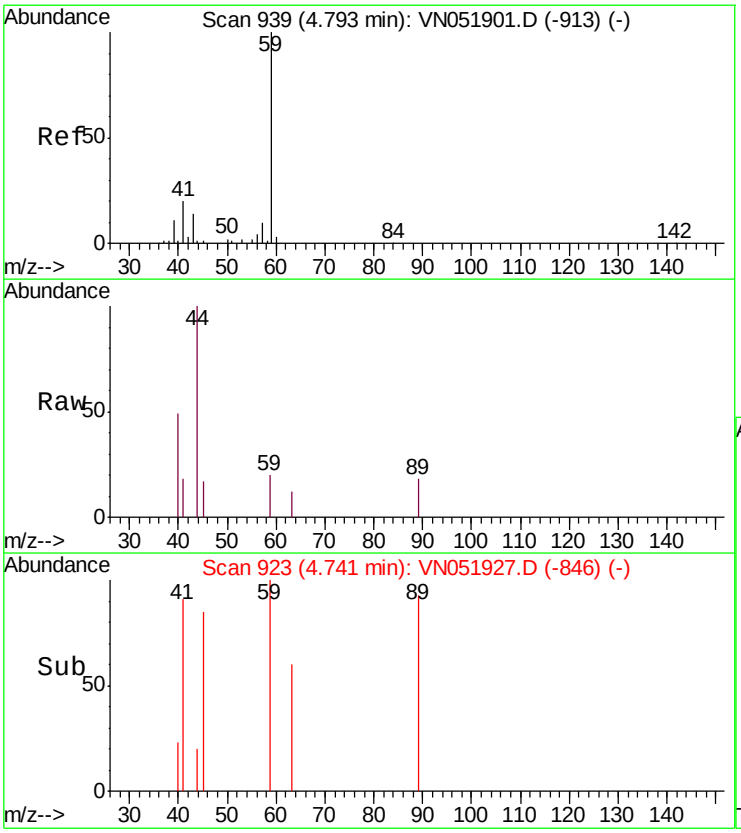

#5
Bromomethane
Concen: Below Cal
RT: 2.57 min Scan# 248
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 94 Resp: 2014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 121.3 | 77.5 | 116.3# |

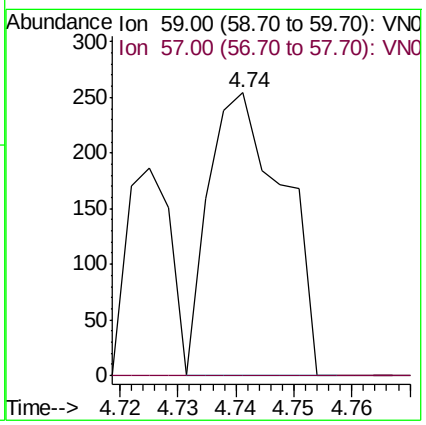


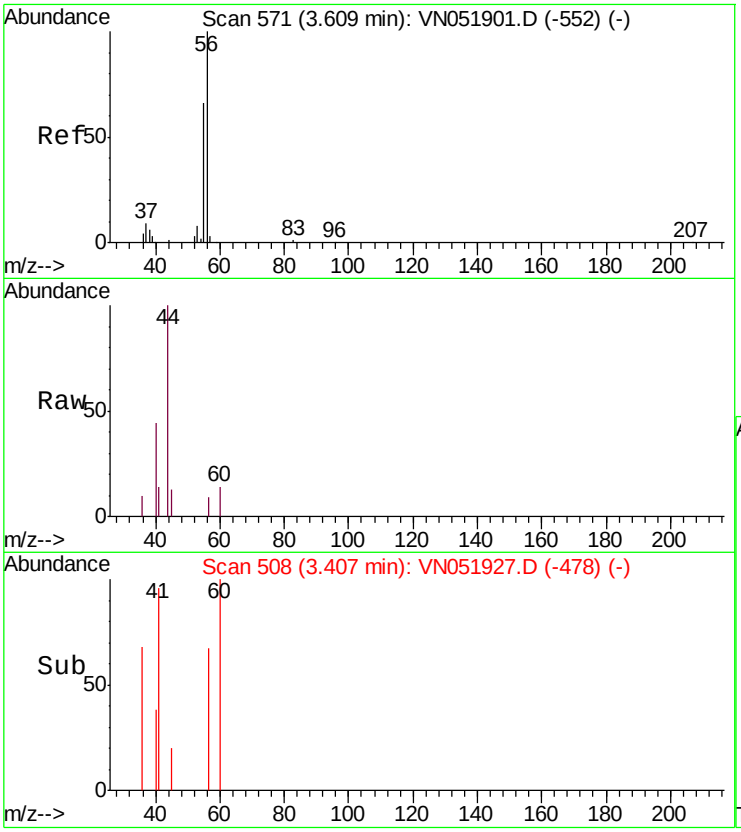




#11
Tert butyl alcohol
Concen: 0.433 ug/l
RT: 4.74 min Scan# 923
Delta R.T. -0.05 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 59 Resp: 226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.3 | 12.5# |



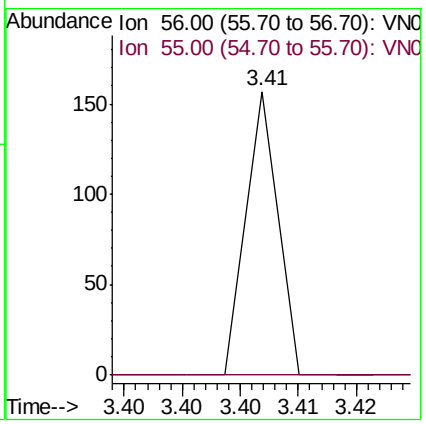


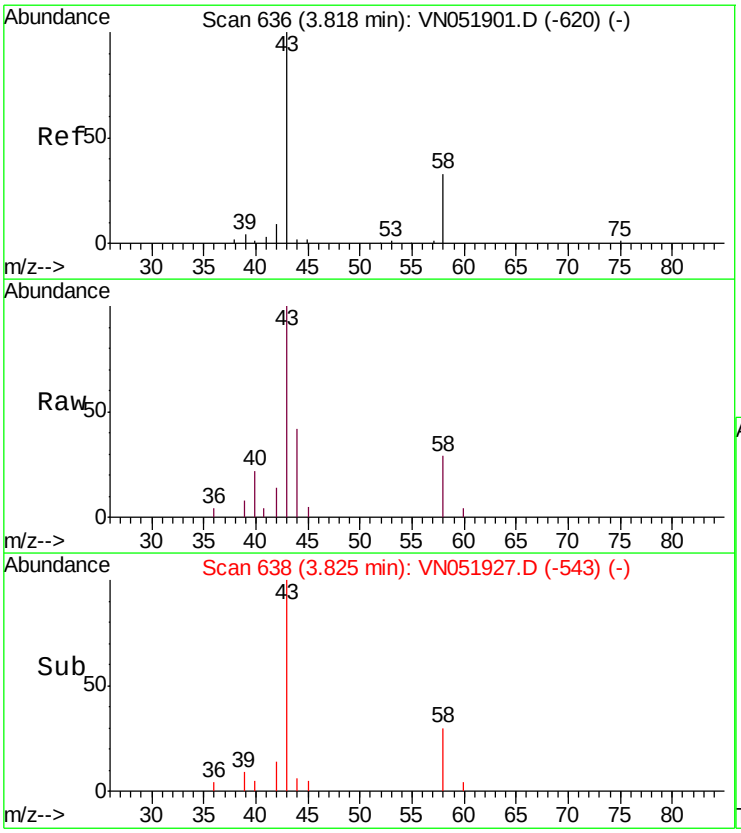

#13
Acrolein
Concen: Below Cal
RT: 3.41 min Scan# 508
Delta R.T. -0.20 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 56 Resp: 30

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 0.0 | 56.7 | 85.1# |

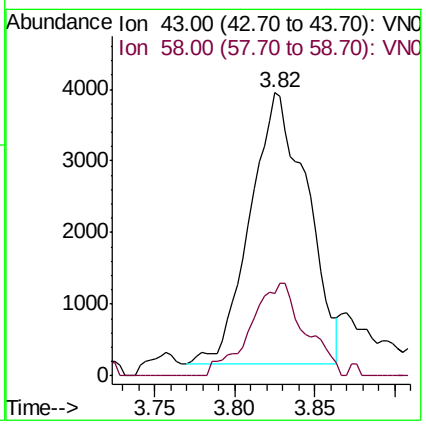


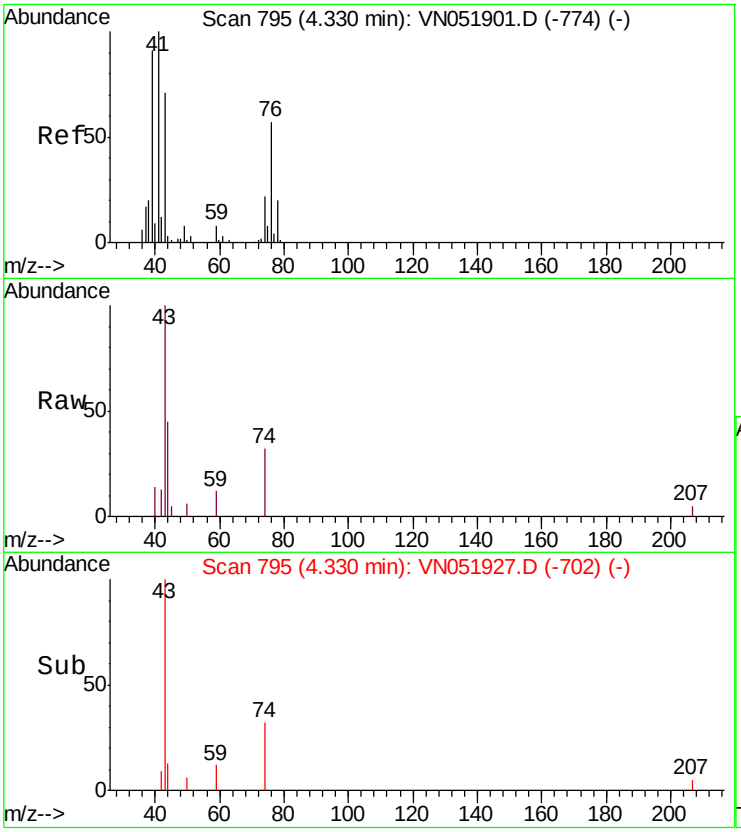




#16
Acetone
Concen: 5.897 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 43 Resp: 9317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.3 | 25.9 | 38.9 |



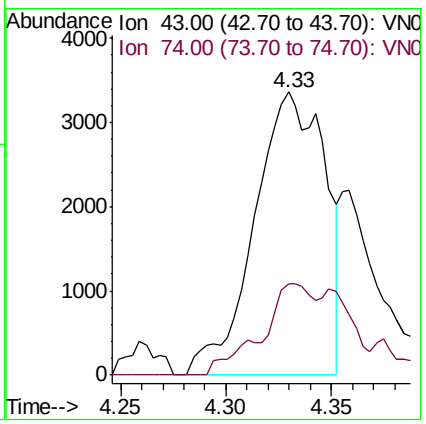


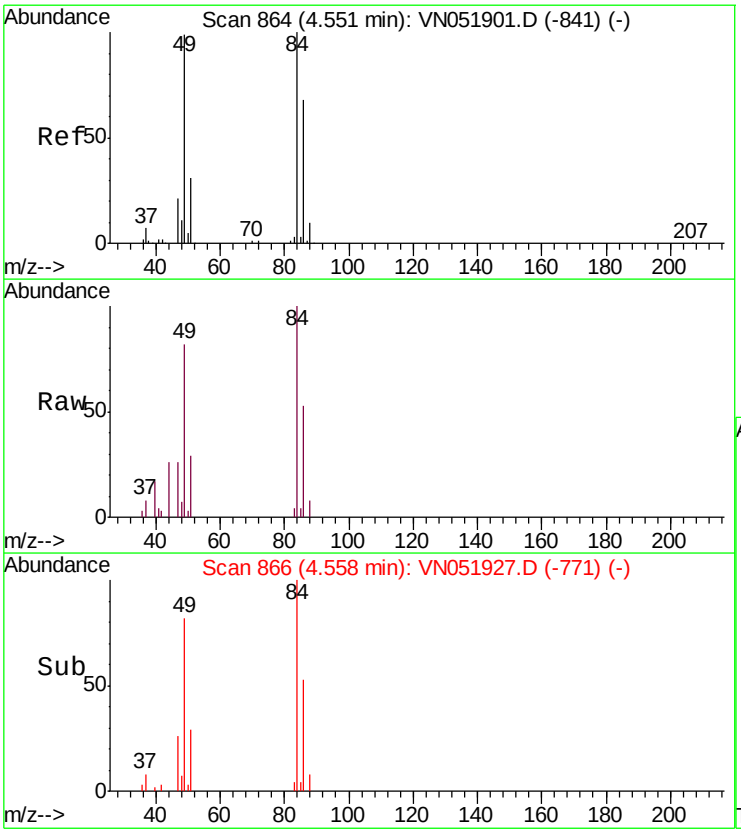

#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 43 Resp: 7854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.7 | 24.9 | 37.3# |

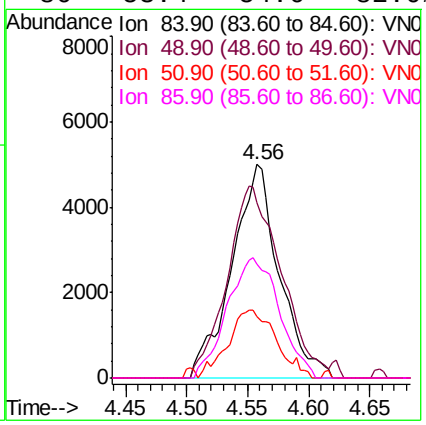


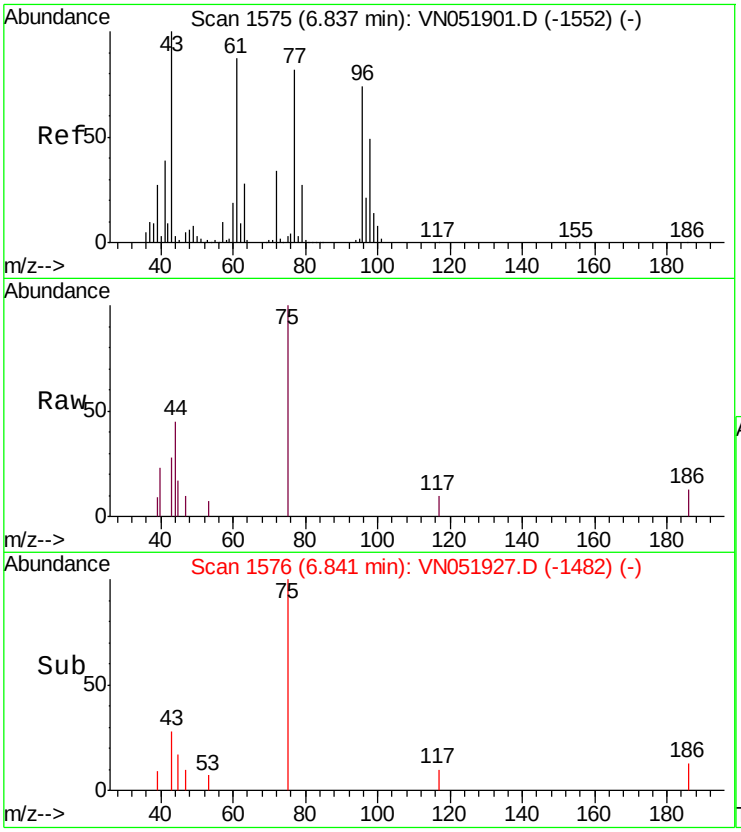




#20
Methylene Chloride
Concen: 1.667 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 84 Resp: 13389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 82.2 | 79.0 | 118.4 |
| 51 | 29.0 | 24.9 | 37.3 |
| 86 | 53.4 | 54.6 | 82.0# |



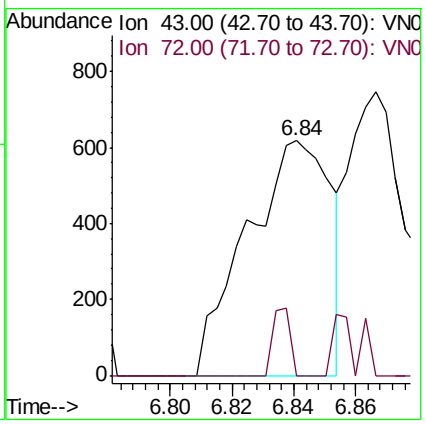


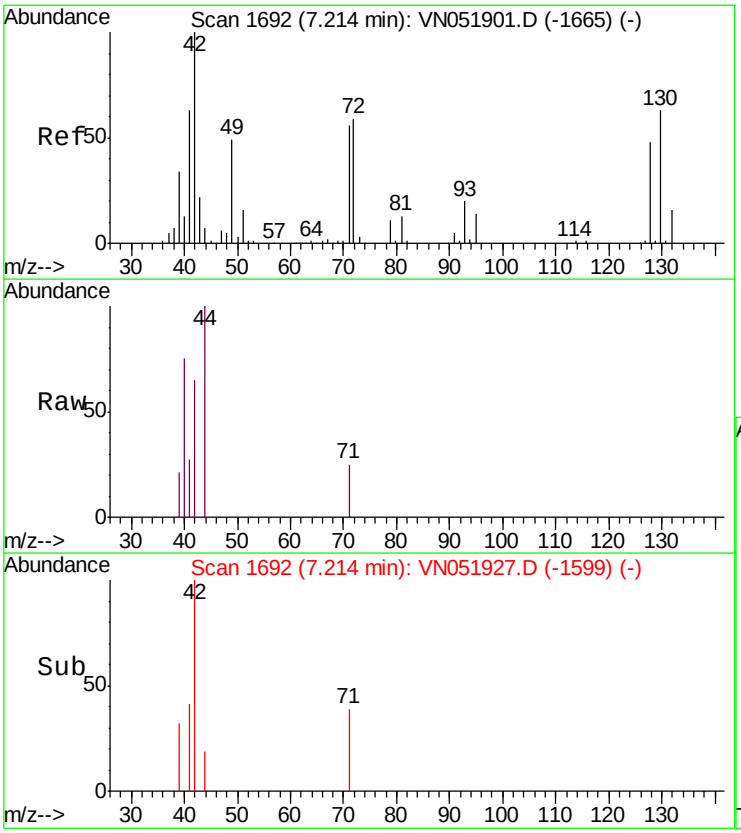

#25
2-Butanone
Concen: 0.513 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 43 Resp: 1158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 0.0 | 27.0 | 40.6# |

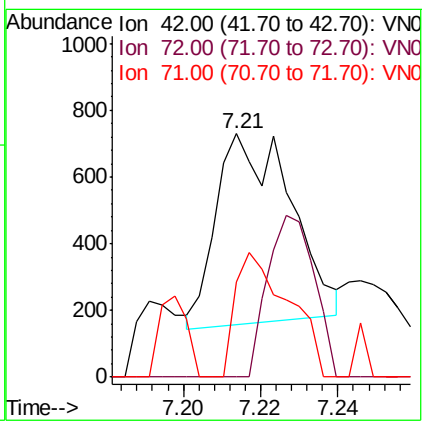


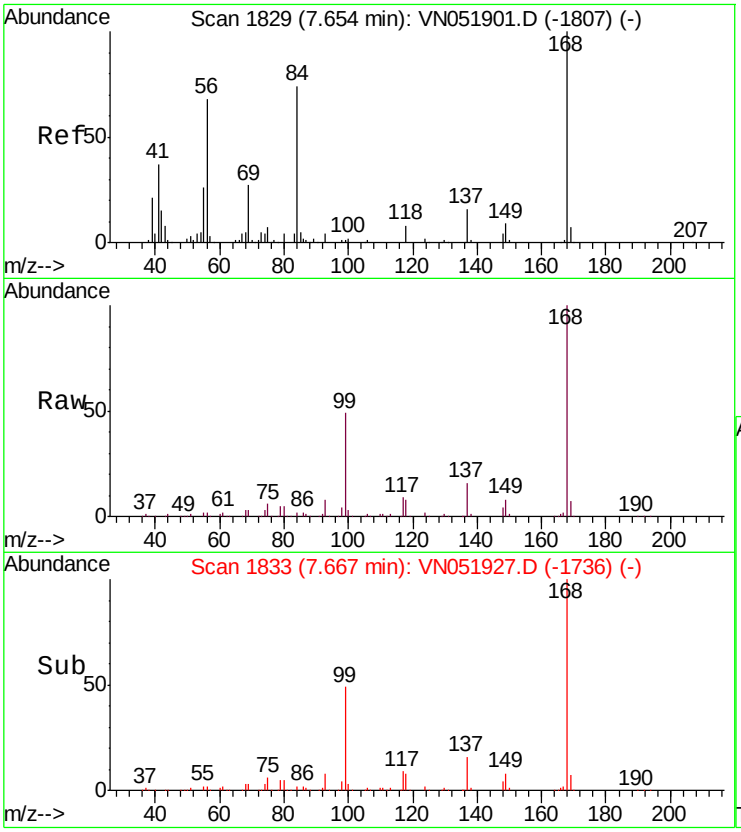




#29
Tetrahydrofuran
Concen: 0.554 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 42 Resp: 764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 53.4 | 47.7 | 71.5 |
| 71 | 46.6 | 45.4 | 68.0 |



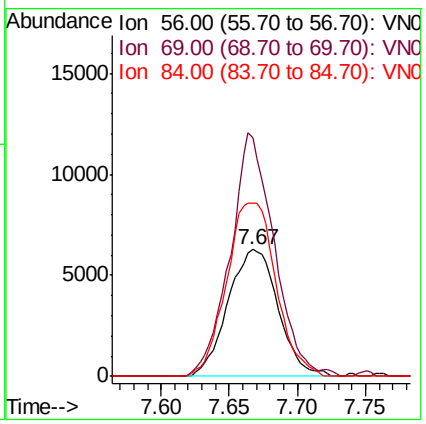


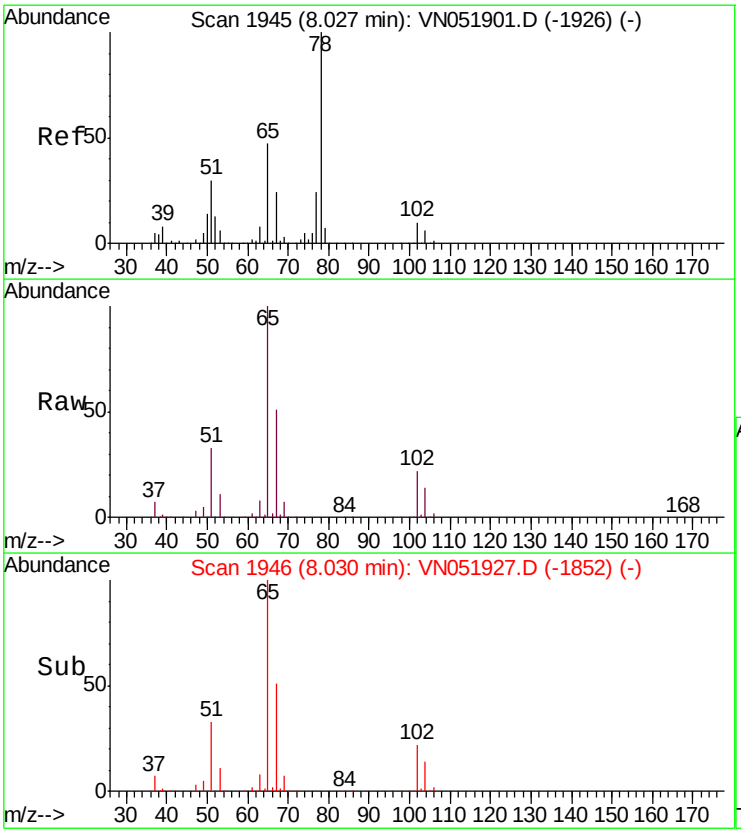

#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 56 Resp: 16084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 188.2 | 31.2 | 46.8# |
| 84 | 136.7 | 86.6 | 130.0# |

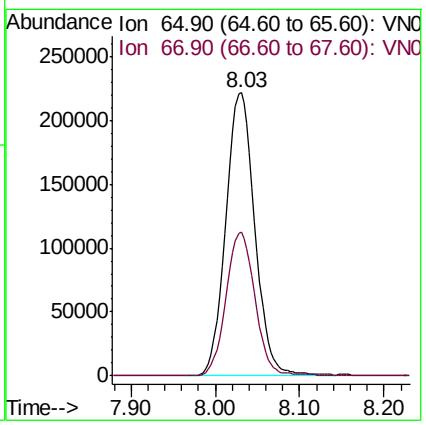


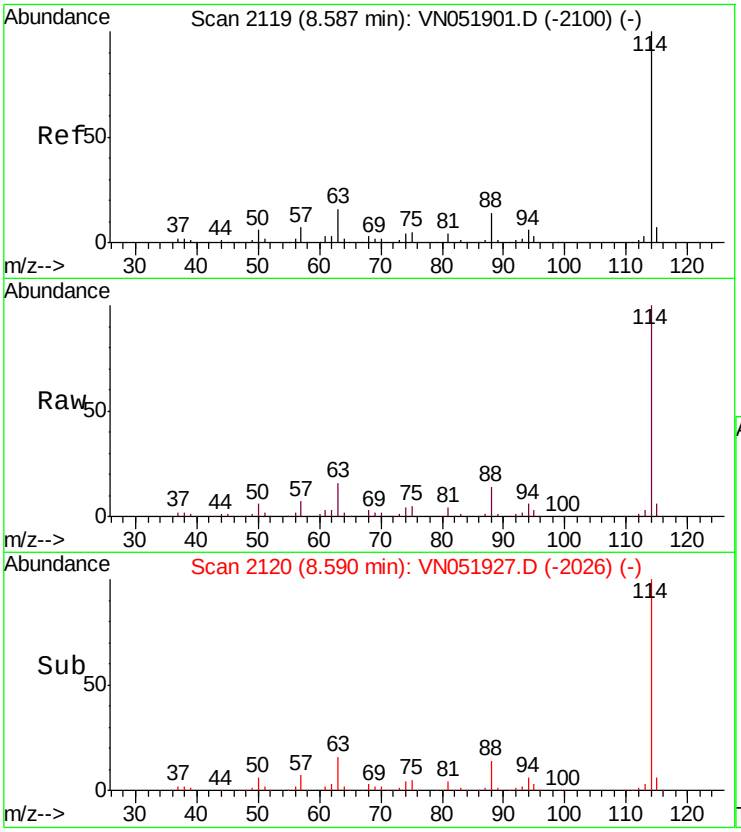




#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 65 Resp: 531668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.4 | 0.0 | 104.0 |



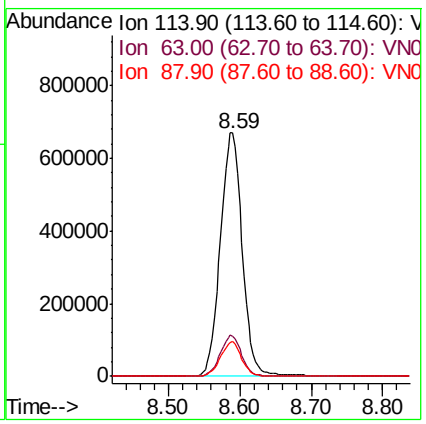


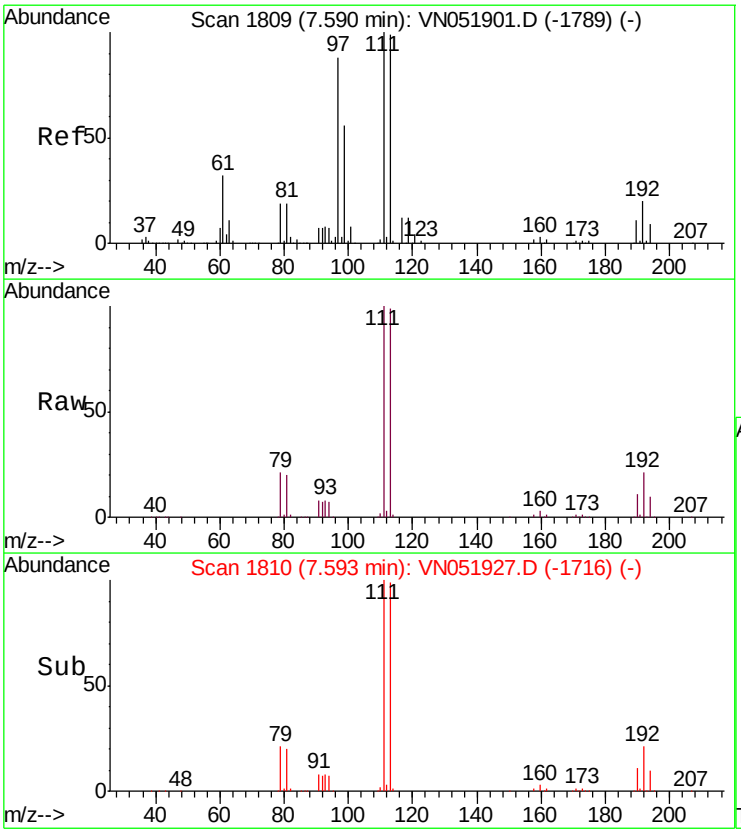

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2120
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion:114 Resp: 1430804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.5 | 0.0 | 31.8 |
| 88 | 14.1 | 0.0 | 28.0 |

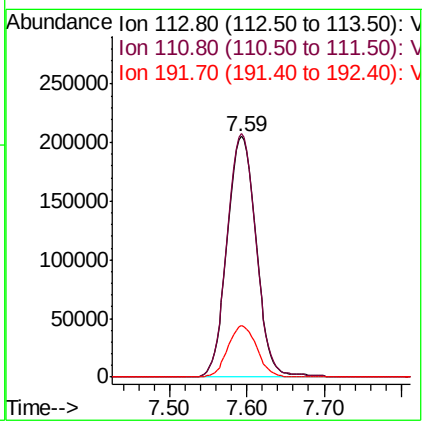


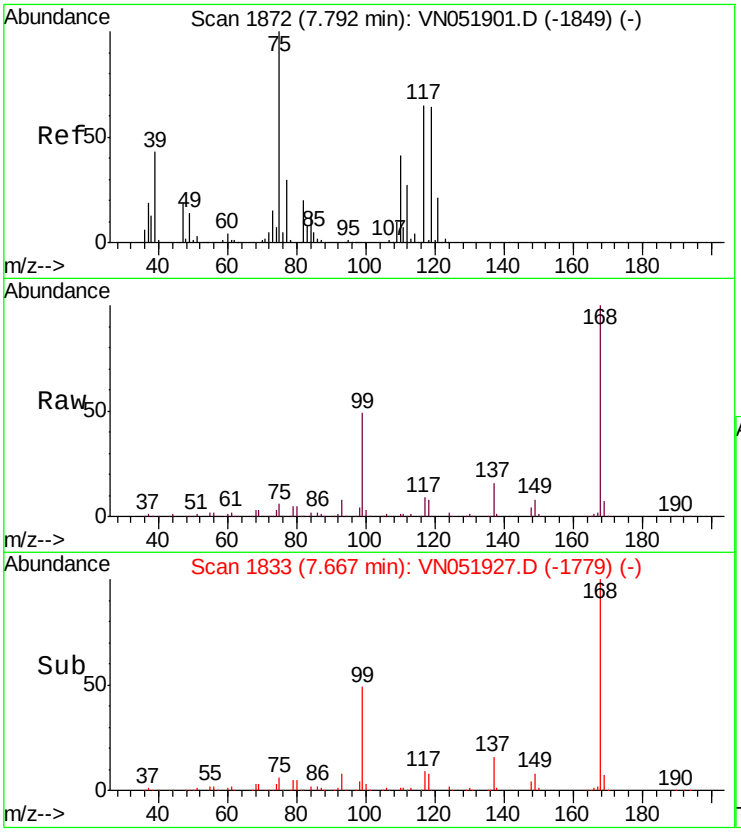




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion:113 Resp: 536528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.8 | 82.6 | 123.8 |
| 192 | 21.1 | 17.3 | 25.9 |



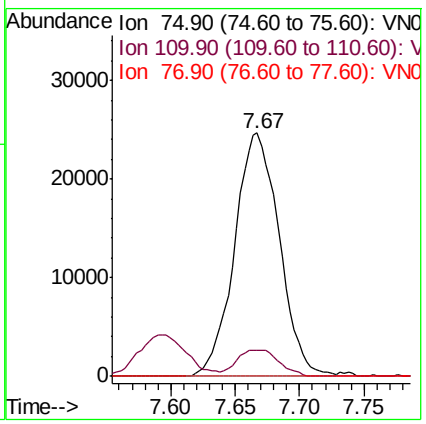


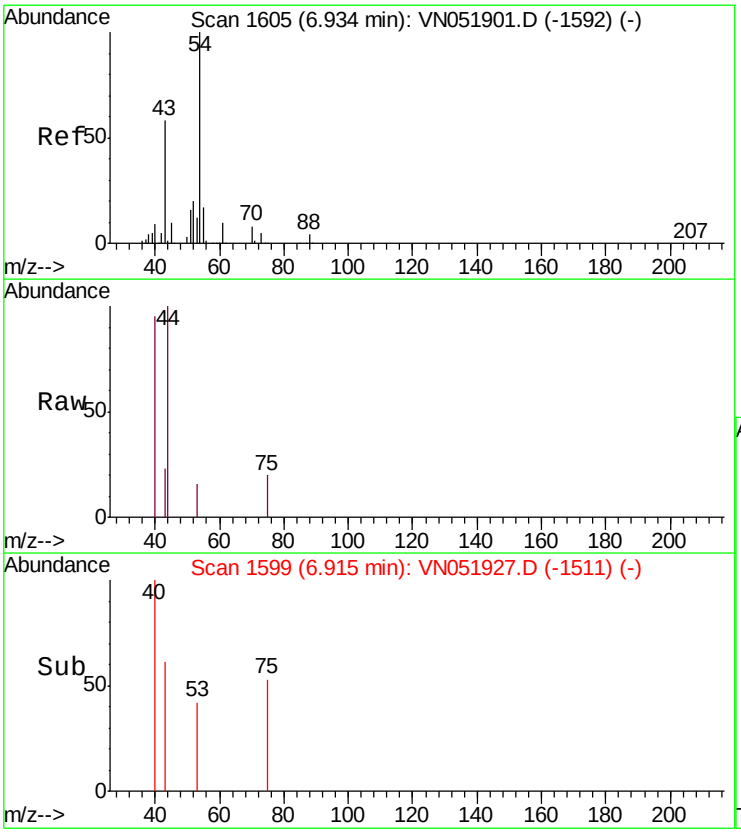

#36
1,1-Dichloropropene
Concen: 5.359 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :** MSVOA_N
**ClientSampleId :** PB113908ZHE#08

Tgt Ion: 75 Resp: 59508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 10.2 | 21.0 | 63.0# |
| 77 | 0.0 | 24.9 | 37.3# |

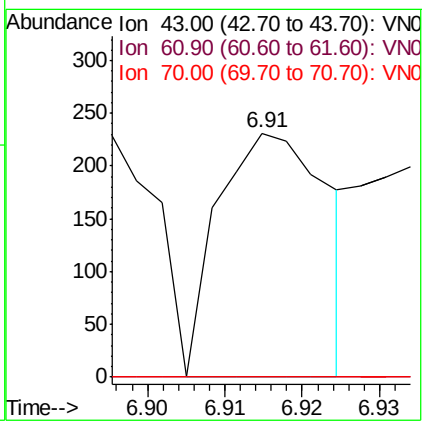


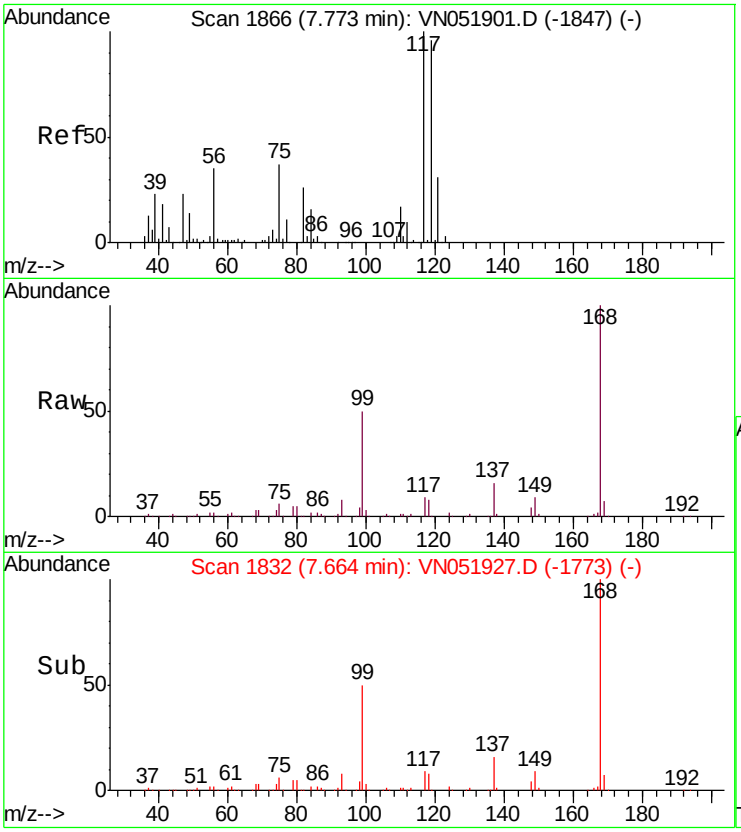




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.91 min Scan# 1599
Delta R.T. -0.02 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 43 Resp: 227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 13.0 | 19.6# |
| 70 | 0.0 | 10.4 | 15.6# |



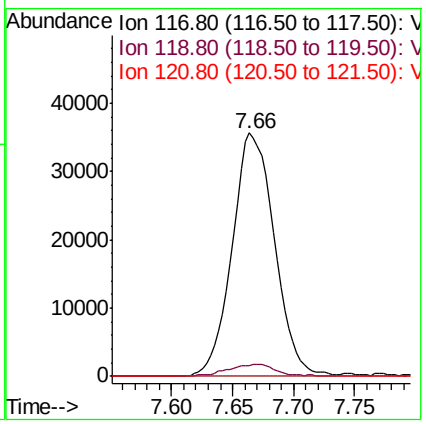


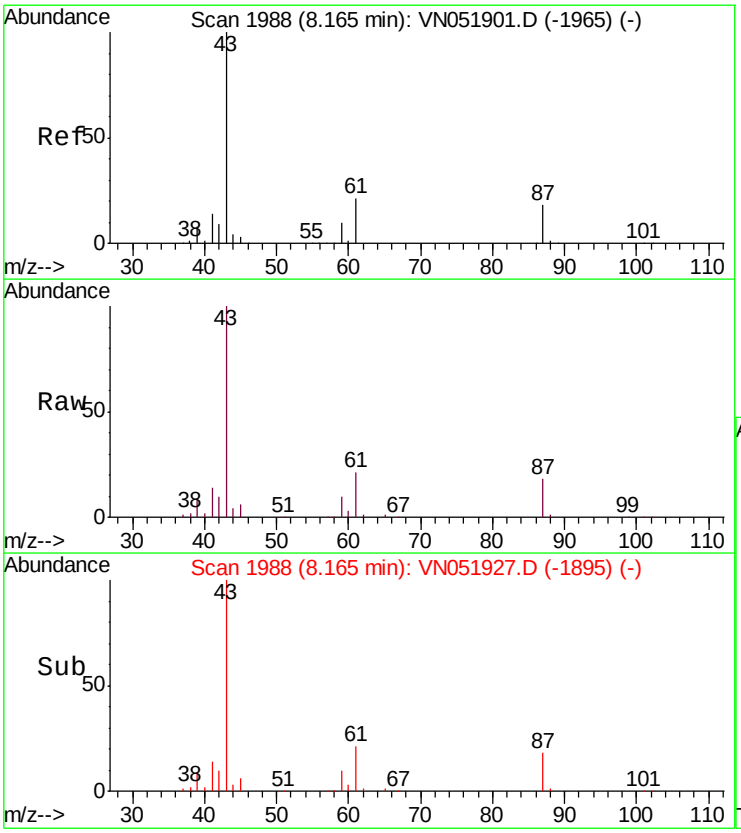

#38
Carbon Tetrachloride
Concen: 6.563 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion:117 Resp: 85833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 4.5 | 77.0 | 115.6# |
| 121 | 0.0 | 25.1 | 37.7# |

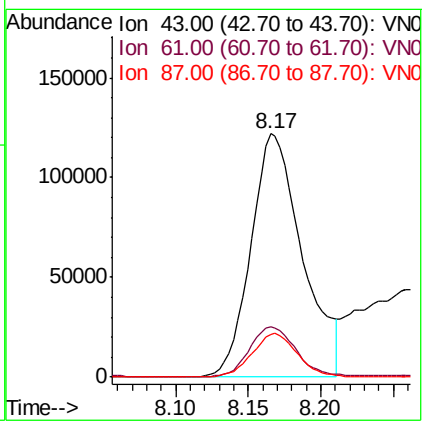


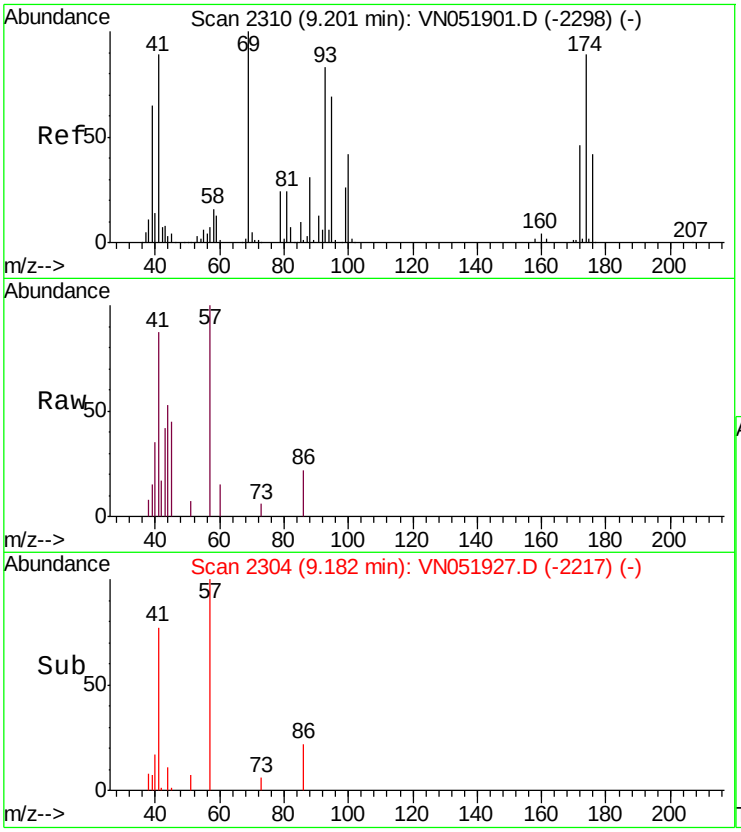




#43
Isopropyl Acetate
Concen: 29.298 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 43 Resp: 301117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.9 | 24.9 | 37.3# |
| 87 | 16.0 | 14.6 | 22.0 |



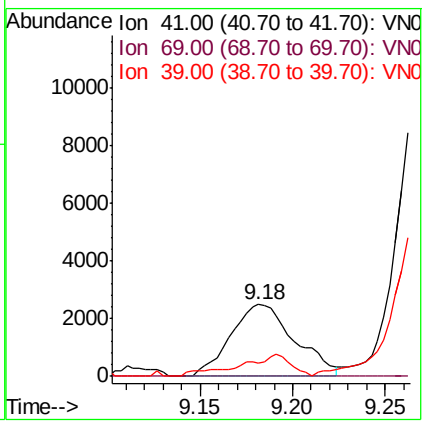


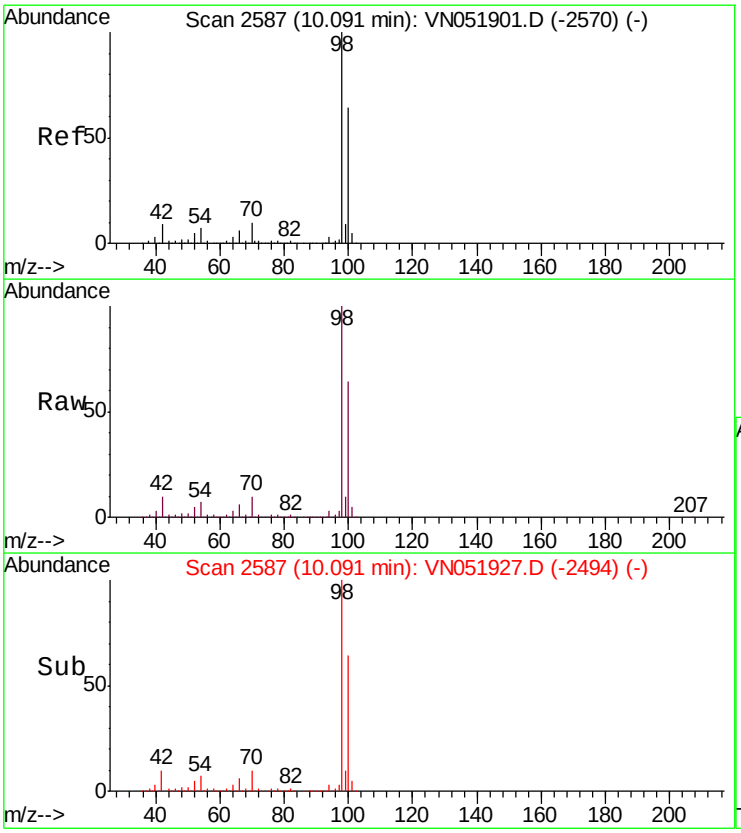

#48
Methyl methacrylate
Concen: 1.331 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 41 Resp: 5967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 0.0 | 90.2 | 135.2# |
| 39 | 24.8 | 59.7 | 89.5# |

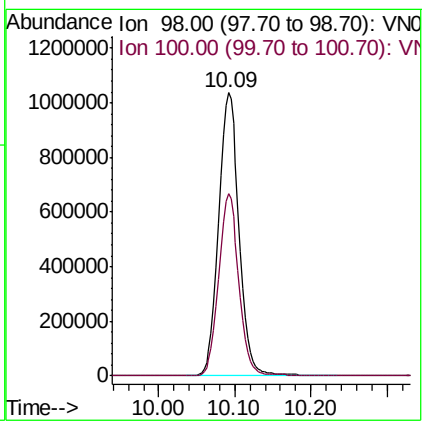


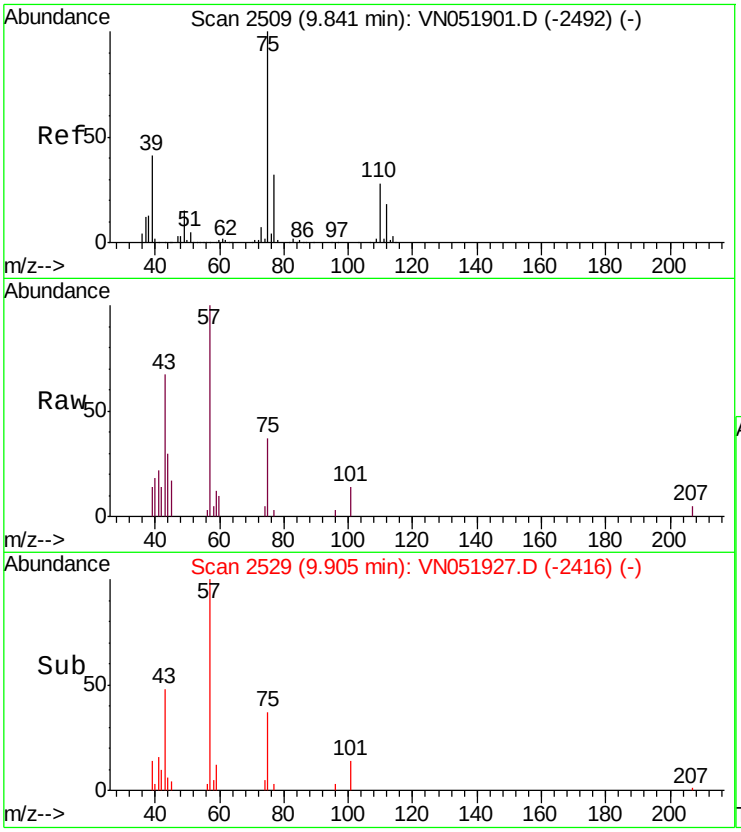




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 98 Resp: 1936777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.4 | 51.0 | 76.4 |



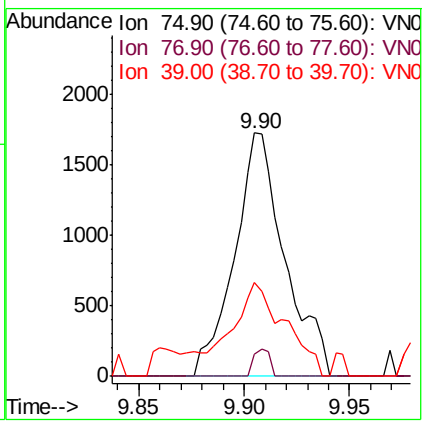


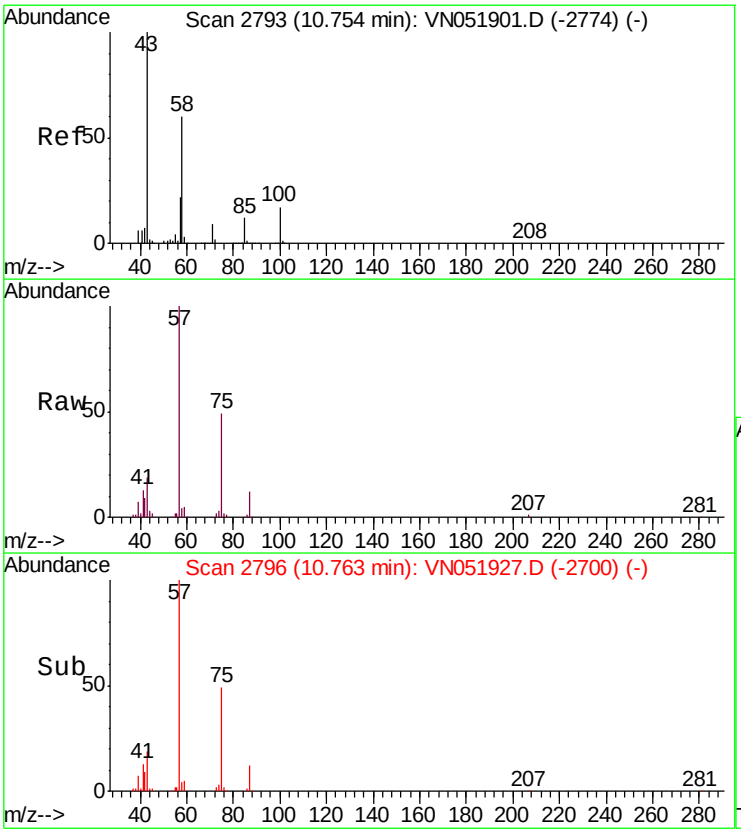

#54
cis-1,3-Dichloropropene
Concen: 0.236 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 75 Resp: 2860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 8.9 | 25.3 | 37.9# |
| 39 | 29.3 | 32.8 | 49.2# |

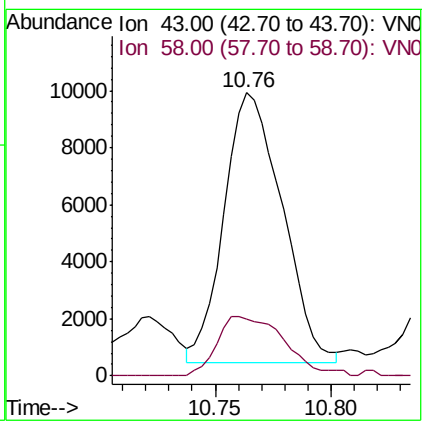


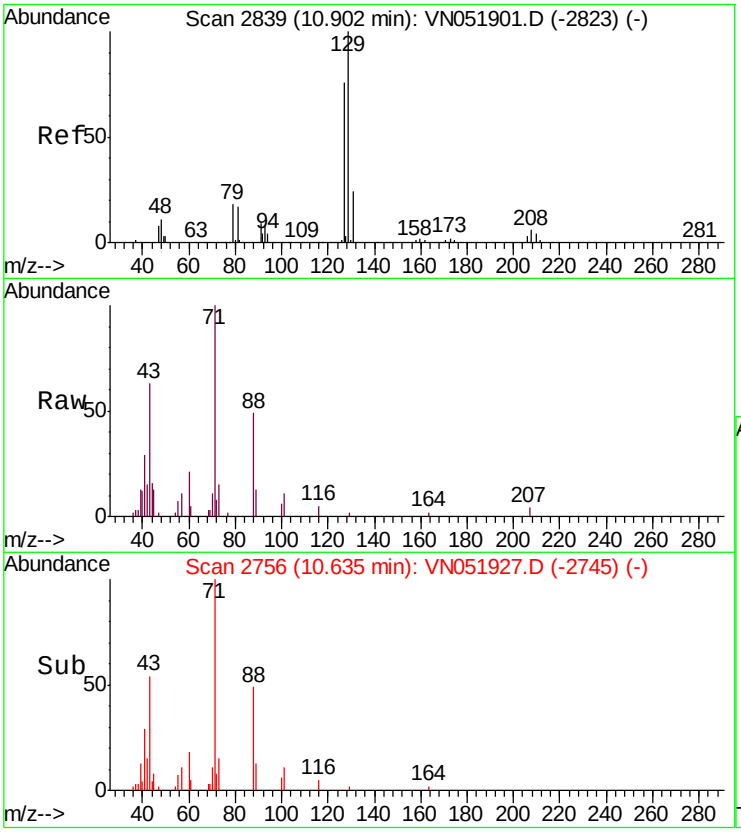




#59
2-Hexanone
Concen: 4.759 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 43 Resp: 16498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.4 | 29.8 | 89.5# |



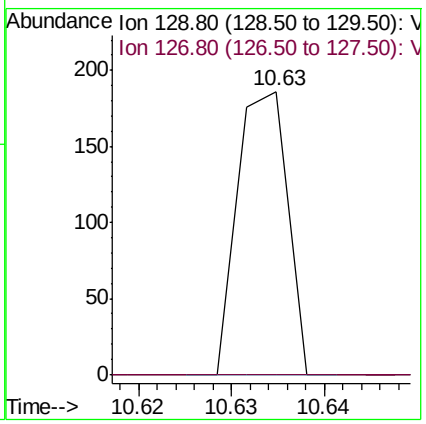


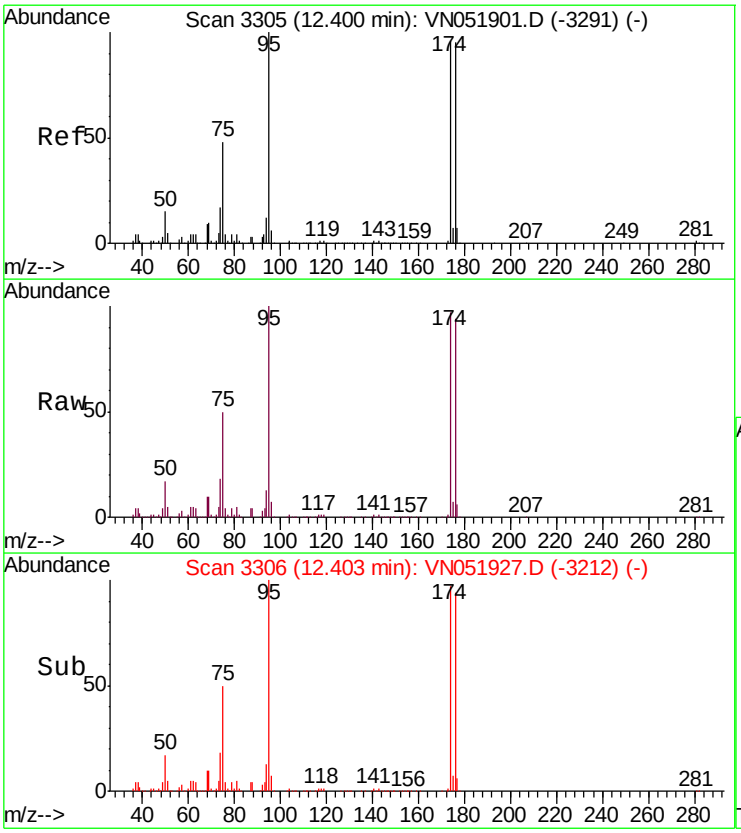

#60
Dibromochloromethane
Concen: 2.057 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :** MSVOA_N
**ClientSampleId :** PB113908ZHE#08

Tgt Ion:129 Resp: 70

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 0.0 | 38.3 | 114.8# |

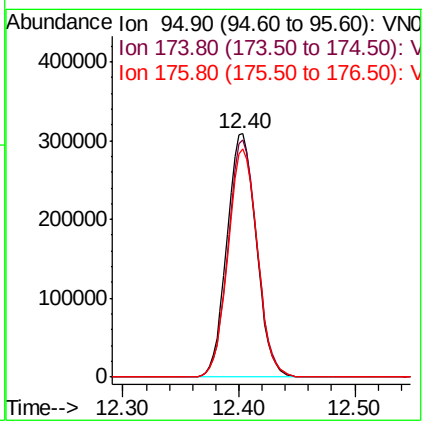


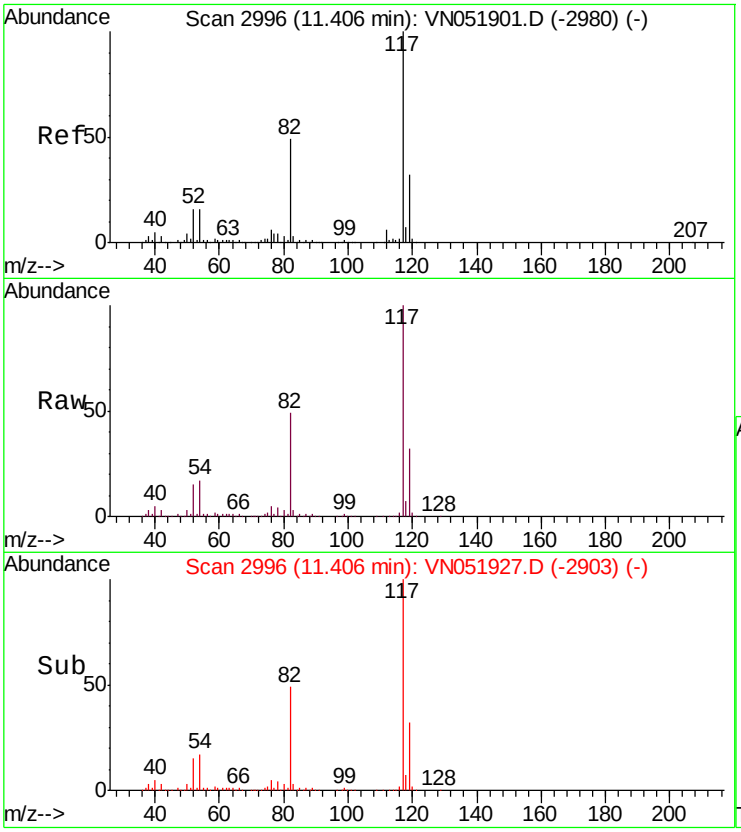




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 95 Resp: 537476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 96.7 | 0.0 | 195.0 |
| 176 | 93.7 | 0.0 | 191.4 |



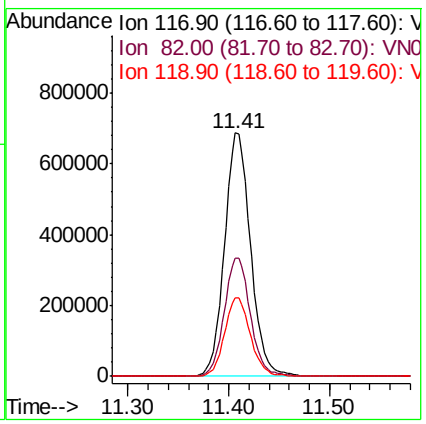


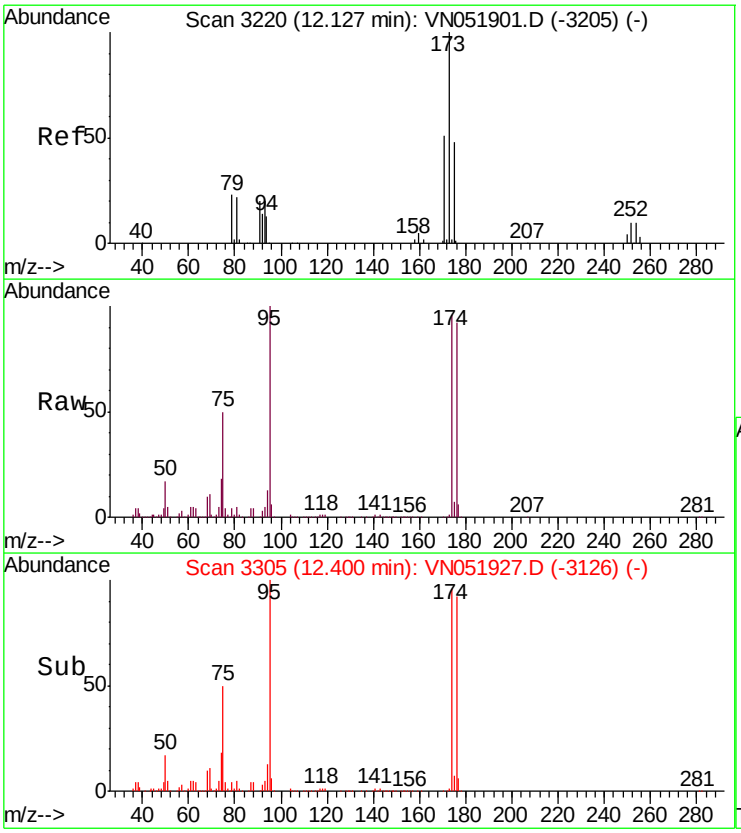

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion:117 Resp: 1240586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 48.6 | 38.9 | 58.3 |
| 119 | 32.4 | 25.9 | 38.9 |

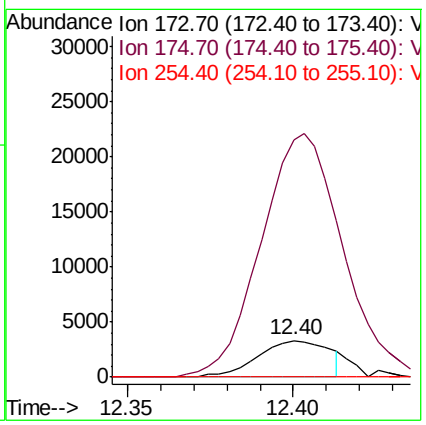


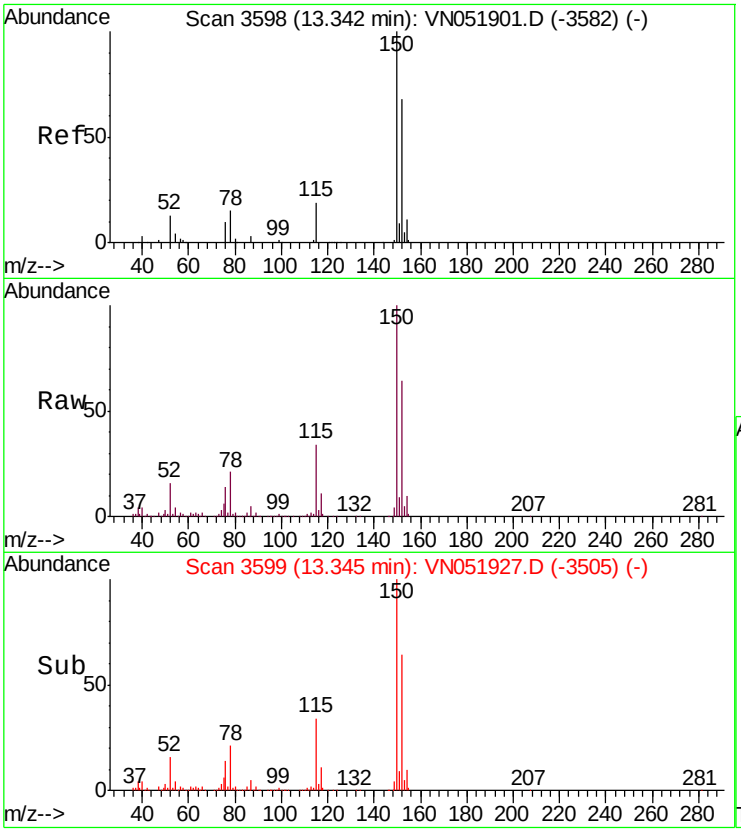




#71
Bromoform
Concen: 3.904 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion:173 Resp: 4971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 644.6 | 24.0 | 72.0# |
| 254 | 0.0 | 0.2 | 0.2# |



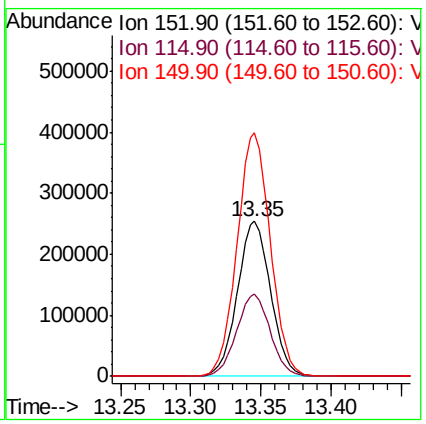


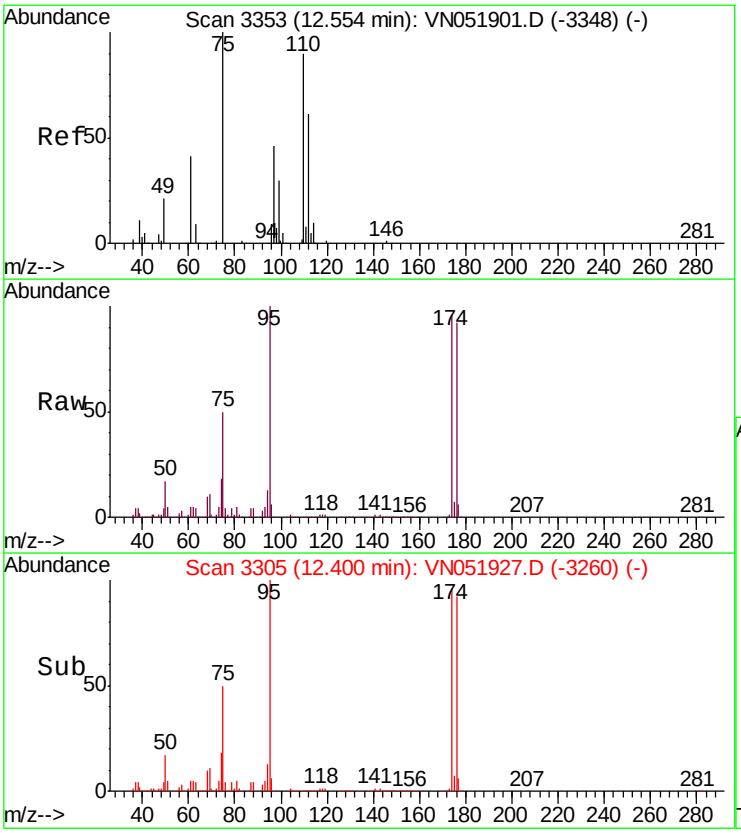

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :** MSVOA_N
**ClientSampleId :** PB113908ZHE#08

Tgt Ion:152 Resp: 419246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 53.7 | 26.7 | 80.1 |
| 150 | 157.6 | 0.0 | 346.4 |

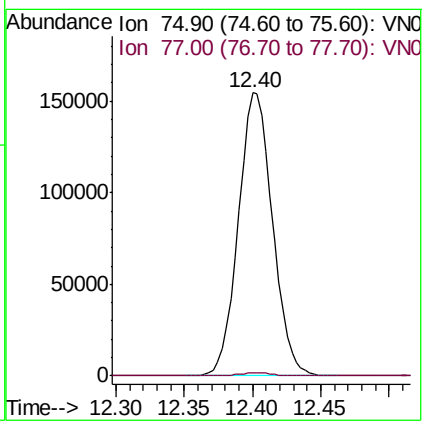


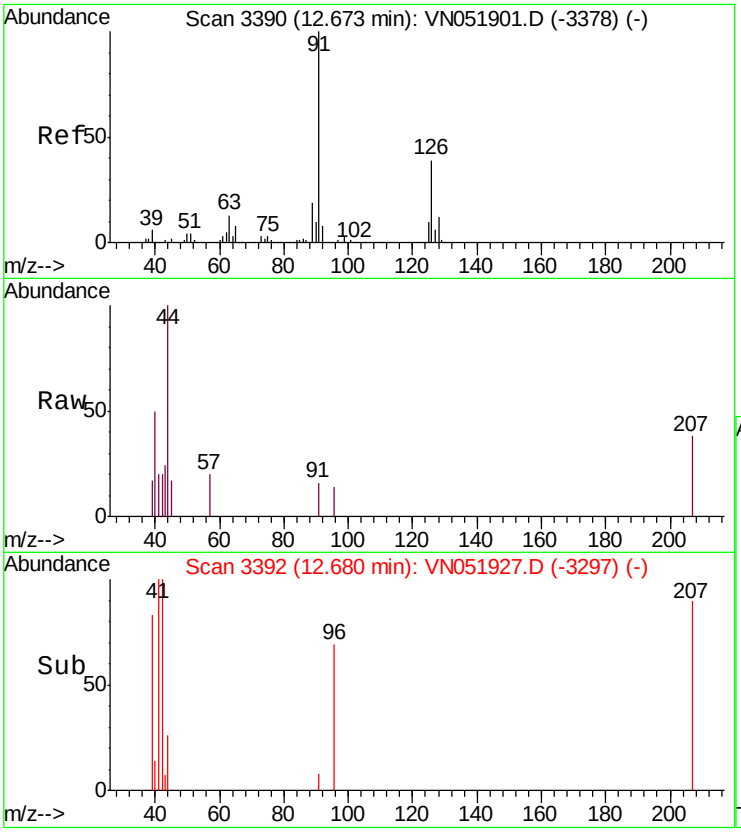




#76
1,2,3-Trichloropropane
Concen: 52.741 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion: 75 Resp: 268752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 1.0 | 0.0 | 0.0# |



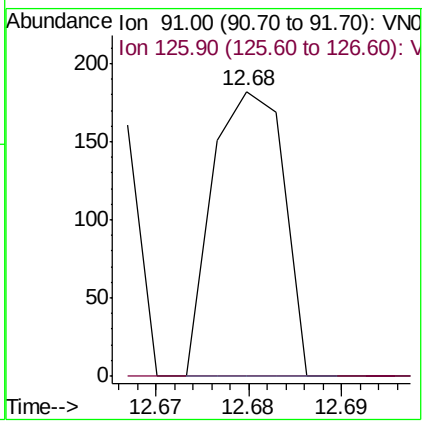


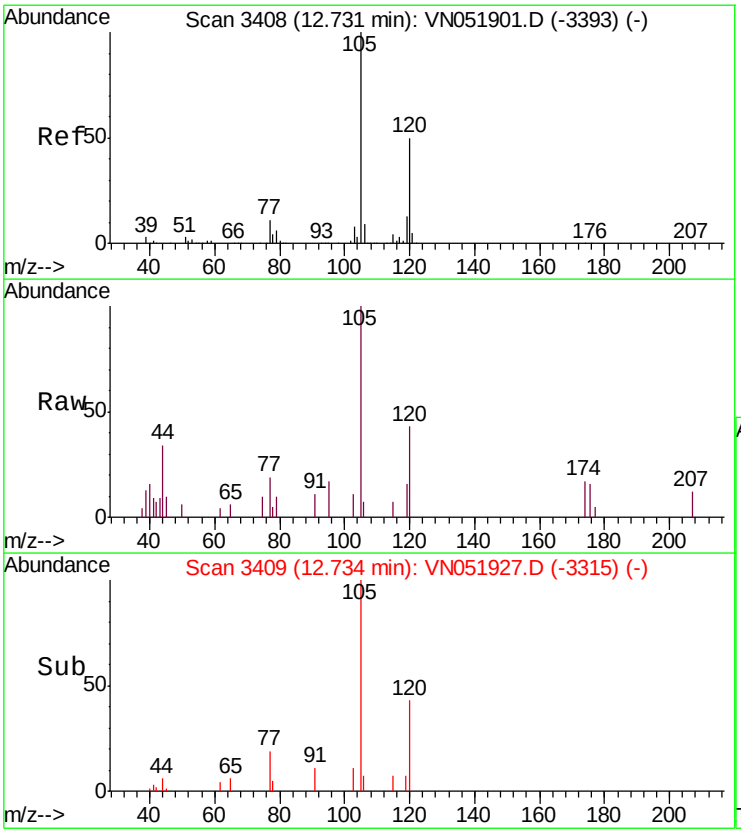

#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.68 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :** MSVOA_N
**ClientSampleId :** PB113908ZHE#08

Tgt Ion: 91 Resp: 97

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 19.6 | 58.7# |

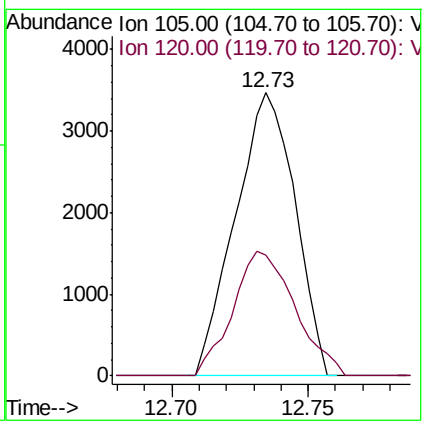


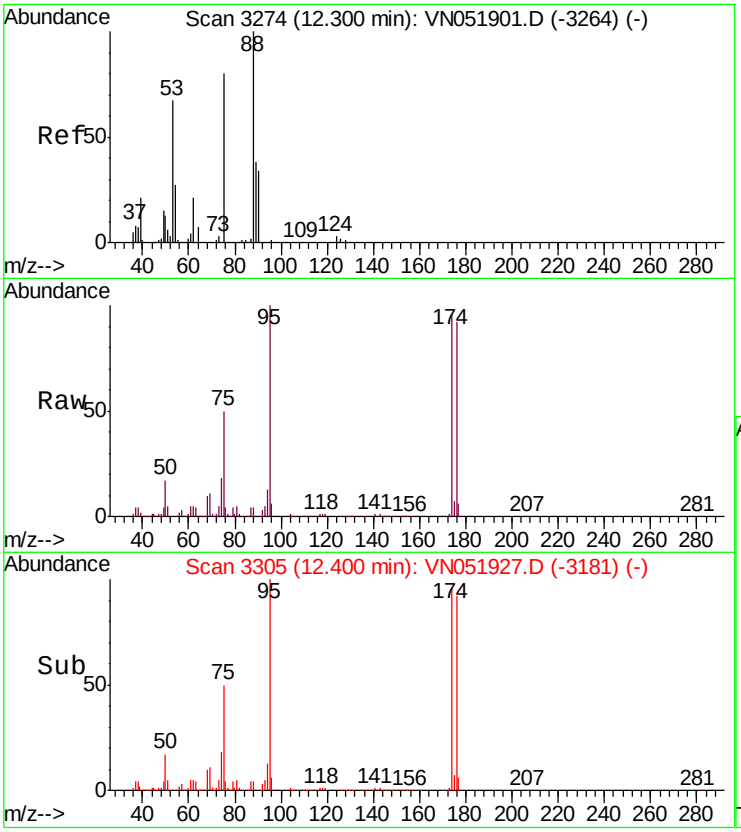




#80
1,3,5-Trimethylbenzene
Concen: 0.201 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion:105 Resp: 5264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 25.3 | 75.9 |



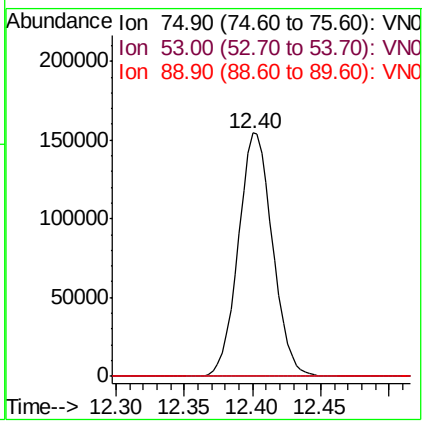


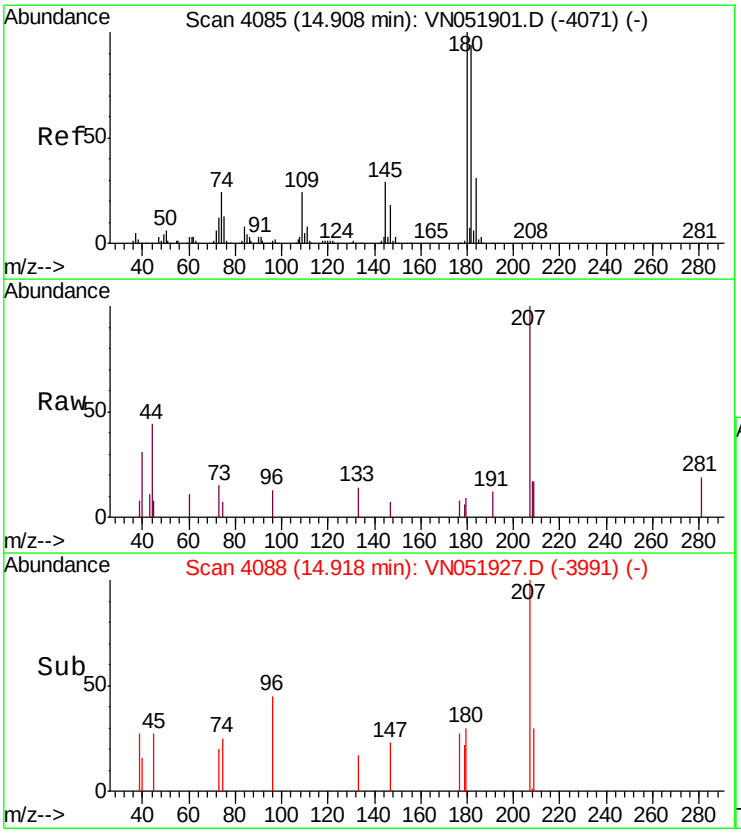

#81
trans-1,4-Dichloro-2-butene
Concen: 173.309 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion: 75 Resp: 268752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 68.5 | 102.7# |
| 89 | 0.0 | 39.0 | 58.6# |

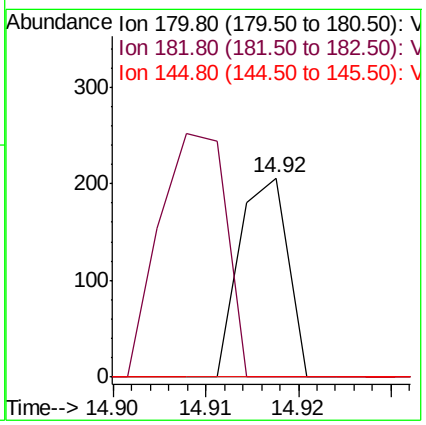


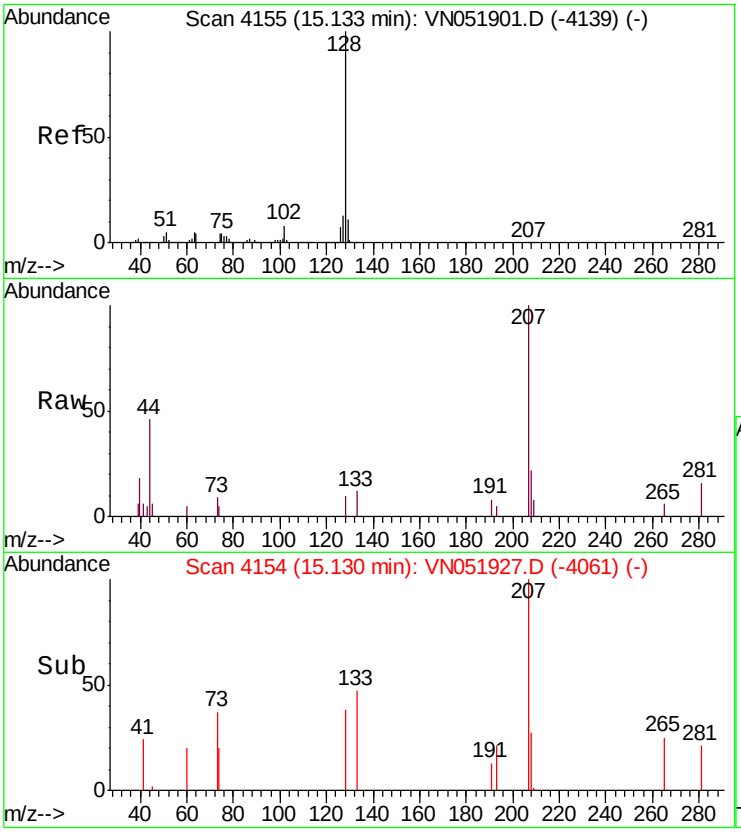




#93
1,2,4-Trichlorobenzene
Concen: 4.071 ug/l
RT: 14.92 min Scan# 4088
Delta R.T. 0.01 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

Tgt Ion:180 Resp: 75

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 166.7 | 47.3 | 141.9# |
| 145 | 0.0 | 14.5 | 43.5# |






#95
Naphthalene
Concen: 4.082 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN051927.D
Acq: 18 Oct 2018 20:02

**Instrument :**
MSVOA_N
**ClientSampleId :**
PB113908ZHE#08

Tgt Ion:128 Resp: 319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 0.0 | 10.2 | 15.2# |
| 129 | 0.0 | 8.5 | 12.7# |