Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR100918\
Data File : VR026019.D
Acq On : 9 Oct 2018 18:06
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_R
**ClientSampleId :**

Quant Time: Oct 10 05:43:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR092718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 10 05:39:19 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 8.46 | 114 | 443657 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 11.29 | 117 | 399010 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152 | 163127 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 2.16 | 65 | 155331 | 4.44 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 88.80% | | | |
| 7) Chloroethane-d5 | 2.62 | 69 | 148902 | 5.21 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 104.20% | | | |
| 11) 1,1-Dichloroethene-d2 | 3.63 | 63 | 389673 | 4.74 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 94.80% | | | |
| 20) 2-Butanone-d5 | 6.59 | 46 | 212012 | 54.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 108.72% | | | |
| 24) Chloroform-d | 7.20 | 84 | 300801 | 4.94 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 98.80% | | | |
| 26) 1,2-Dichloroethane-d4 | 7.90 | 65 | 136772 | 5.22 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 104.40% | | | |
| 32) Benzene-d6 | 7.85 | 84 | 568261 | 4.28 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 85.60% | | | |
| 36) 1,2-Dichloropropane-d6 | 8.90 | 67 | 165402 | 4.62 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 92.40% | | | |
| 41) Toluene-d8 | 9.97 | 98 | 541960 | 4.34 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 86.80% | | | |
| 43) trans-1,3-Dichloropropene- | 10.24 | 79 | 42544 | 5.24 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 104.80% | | | |
| 46) 2-Hexanone-d5 | 10.59 | 63 | 182685 | 58.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 117.94% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36 | 84 | 80696 | 5.56 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 111.20% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 13.51 | 152 | 123645 | 4.73 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 94.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.84 | 85 | 105729 | 3.921 | ug/L | 91 |
| 3) Chloromethane | 2.02 | 50 | 191448 | 4.993 | ug/L | 92 |
| 5) Vinyl chloride | 2.17 | 62 | 195328 | 5.118 | ug/L | 97 |
| 6) Bromomethane | 2.52 | 94 | 125830 | 5.280 | ug/L | 96 |
| 8) Chloroethane | 2.66 | 64 | 124847 | 5.749 | ug/L | 100 |
| 9) Trichlorofluoromethane | 2.94 | 101 | 97768 | 1.845 | ug/L # | 56 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 171222 | 5.286 | ug/L | 94 |
| 12) 1,1-Dichloroethene | 3.65 | 96 | 176452 | 5.269 | ug/L | 85 |
| 13) Acetone | 3.70 | 43 | 127603 | 45.138 | ug/L | 96 |
| 14) Carbon disulfide | 3.95 | 76 | 378978 | 4.674 | ug/L | 99 |
| 15) Methyl Acetate | 4.20 | 43 | 38149 | 4.867 | ug/L | 92 |
| 16) Methylene chloride | 4.40 | 84 | 167128 | 5.427 | ug/L | 84 |
| 17) Methyl tert-butyl Ether | 4.90 | 73 | 189287 | 5.104 | ug/L | 98 |
| 18) trans-1,2-Dichloroethene | 4.89 | 96 | 128719 | 4.647 | ug/L | 95 |
| 19) 1,1-Dichloroethane | 5.69 | 63 | 257024 | 4.687 | ug/L | 95 |
| 21) 2-Butanone | 6.70 | 43 | 190621 | 49.025 | ug/L | 97 |
| 22) cis-1,2-Dichloroethene | 6.67 | 96 | 133230 | 4.780 | ug/L # | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR100918\
Data File : VR026019.D
Acq On : 9 Oct 2018 18:06
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_R
**ClientSampleId :**

Quant Time: Oct 10 05:43:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR092718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 10 05:39:19 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 23) Bromochloromethane | 7.05 | 128 | 40688 | 5.381 ug/L # | 81 |
| 25) Chloroform | 7.23 | 83 | 264199 | 4.947 ug/L | 99 |
| 27) 1,2-Dichloroethane | 7.99 | 62 | 135902 | 5.100 ug/L | 100 |
| 29) 1,1,1-Trichloroethane | 7.43 | 97 | 207820 | 4.632 ug/L | 99 |
| 30) Cyclohexane | 7.52 | 56 | 210219 | 3.750 ug/L | 95 |
| 31) Carbon tetrachloride | 7.63 | 117 | 184167 | 4.740 ug/L | 98 |
| 33) Benzene | 7.91 | 78 | 596307 | 4.456 ug/L | 100 |
| 34) Trichloroethene | 8.71 | 95 | 147119 | 4.172 ug/L | 91 |
| 35) Methylcyclohexane | 8.96 | 83 | 212463 | 4.007 ug/L | 96 |
| 37) 1,2-Dichloropropane | 9.00 | 63 | 133095 | 4.636 ug/L | 98 |
| 38) Bromodichloromethane | 9.28 | 83 | 150465 | 4.857 ug/L | 93 |
| 39) cis-1,3-Dichloropropene | 9.72 | 75 | 164015 | 5.095 ug/L | 98 |
| 40) 4-Methyl-2-pentanone | 9.87 | 43 | 527487 | 52.249 ug/L | 98 |
| 42) Toluene | 10.04 | 91 | 664599 | 4.779 ug/L | 95 |
| 44) trans-1,3-Dichloropropene | 10.26 | 75 | 115007 | 5.472 ug/L | 95 |
| 45) 1,1,2-Trichloroethane | 10.45 | 97 | 63141 | 4.862 ug/L | 97 |
| 47) Tetrachloroethene | 10.51 | 164 | 100399 | 4.621 ug/L | 94 |
| 48) 2-Hexanone | 10.63 | 43 | 358975 | 54.309 ug/L | 96 |
| 49) Dibromochloromethane | 10.79 | 129 | 70617 | 5.358 ug/L | 94 |
| 50) 1,2-Dibromoethane | 10.89 | 107 | 52557 | 5.129 ug/L # | 94 |
| 51) Chlorobenzene | 11.32 | 112 | 362060 | 4.908 ug/L | 93 |
| 52) Ethylbenzene | 11.39 | 91 | 767122 | 4.833 ug/L | 98 |
| 53) m,p-Xylene | 11.50 | 106 | 273742 | 4.844 ug/L | 96 |
| 54) o-Xylene | 11.83 | 106 | 256913 | 4.884 ug/L | 91 |
| 55) Styrene | 11.84 | 104 | 422304 | 5.158 ug/L | 95 |
| 56) Isopropylbenzene | 12.13 | 105 | 737101 | 5.081 ug/L | 98 |
| 58) 1,1,2,2-Tetrachloroethane | 12.39 | 83 | 65945 | 5.270 ug/L | 96 |
| 59) 1,2,3-Trichloropropane | 12.43 | 75 | 48343 | 5.191 ug/L | 96 |
| 61) Bromoform | 12.01 | 173 | 24268 | 4.921 ug/L # | 92 |
| 62) 1,3-Dichlorobenzene | 13.16 | 146 | 213046 | 4.469 ug/L | 91 |
| 63) 1,4-Dichlorobenzene | 13.24 | 146 | 222579 | 4.564 ug/L | 98 |
| 65) 1,2-Dichlorobenzene | 13.53 | 146 | 181526 | 4.739 ug/L | 94 |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75 | 6141 | 3.813 ug/L # | 87 |
| 67) 1,3,5-Trichlorobenzene | 14.29 | 180 | 132809 | 4.676 ug/L | 97 |
| 68) 1,2,4-trichlorobenzene | 14.78 | 180 | 85978 | 4.749 ug/L | 97 |
| 69) Naphthalene | 15.00 | 128 | 102826 | 4.451 ug/L | 99 |
| 70) 1,2,3-Trichlorobenzene | 15.18 | 180 | 62927 | 5.010 ug/L | 99 |

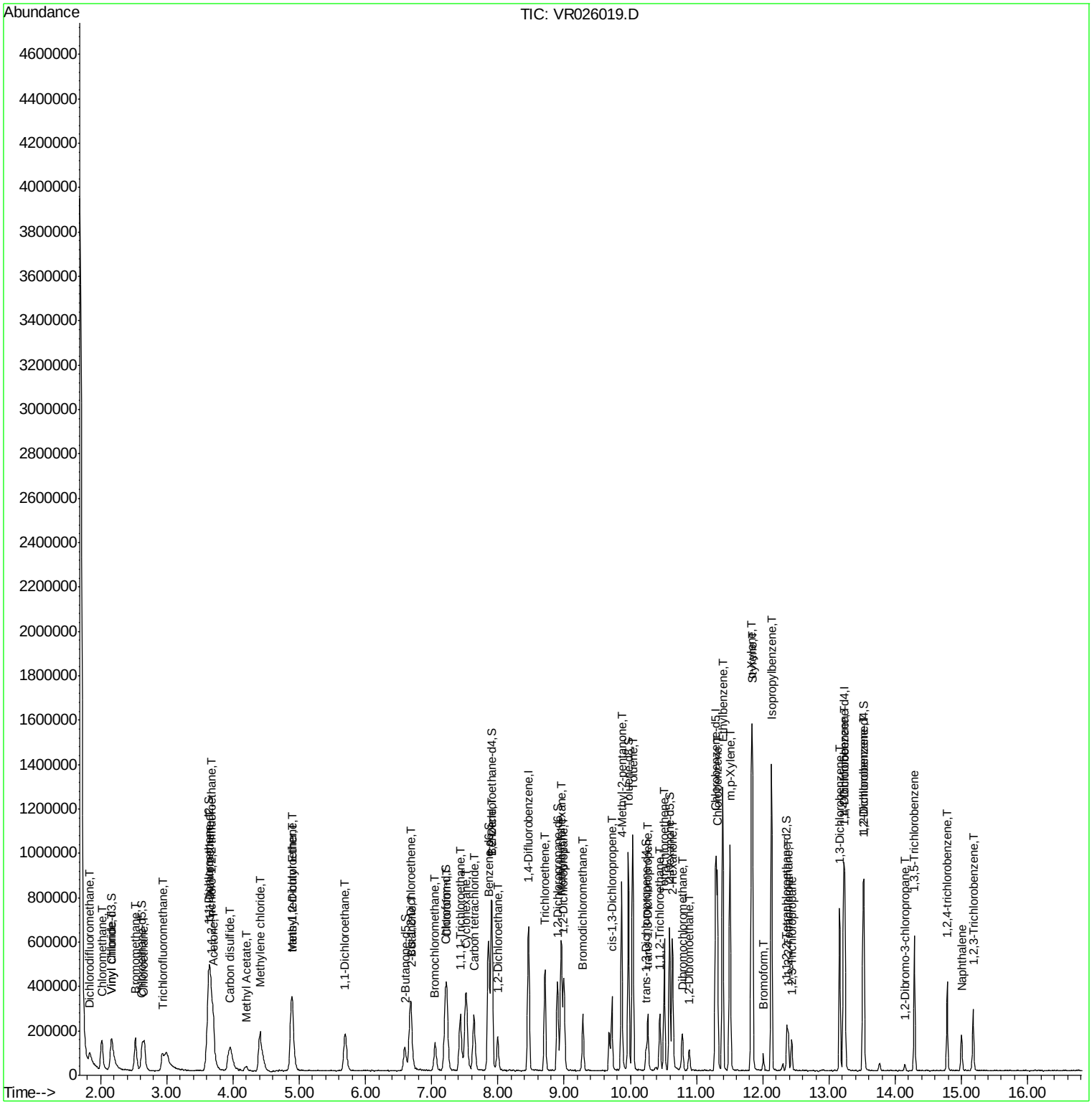
(#) = qualifier out of range (m) = manual integration (+) = signals summed

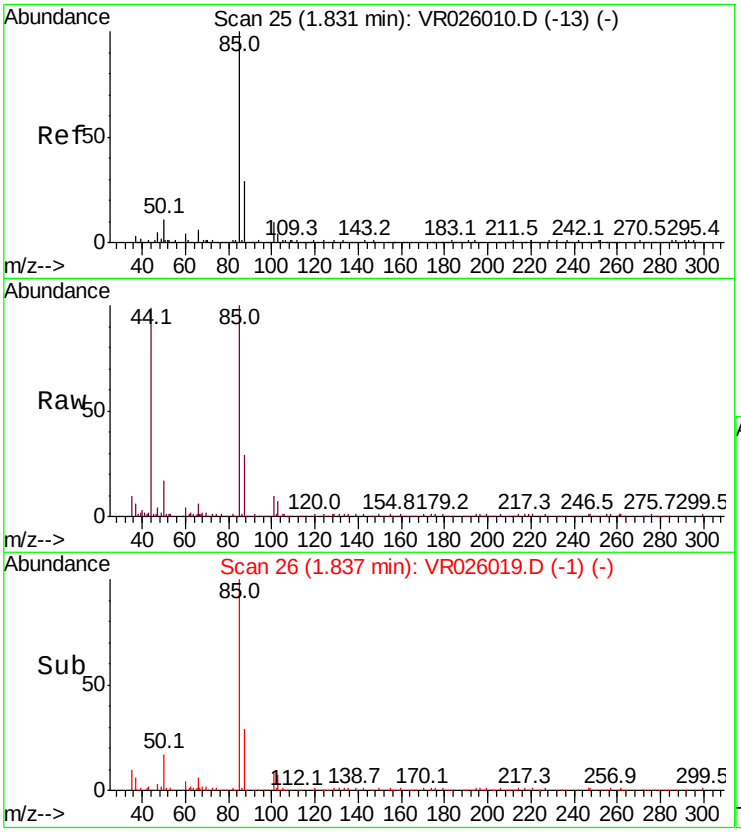
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR100918\
Data File : VR026019.D
Acq On : 9 Oct 2018 18:06
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_R
**ClientSampleId :**

Quant Time: Oct 10 05:43:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR092718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 10 05:39:19 2018
Response via : Initial Calibration



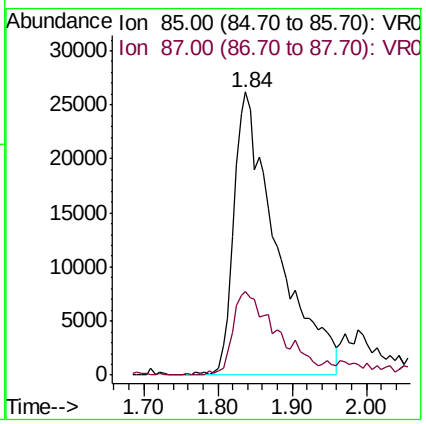


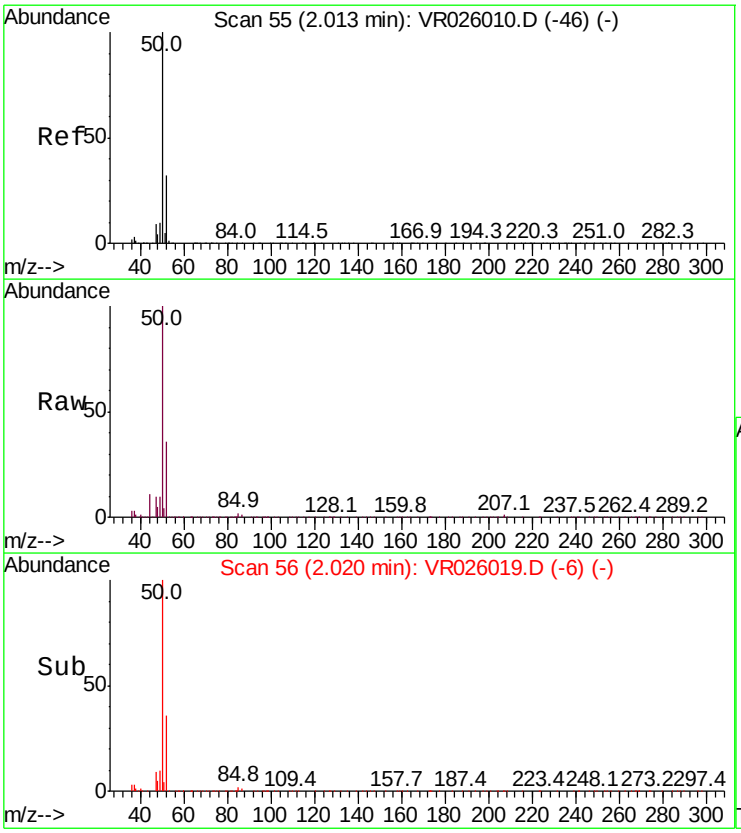

#2
Dichlorodifluoromethane
Concen: 3.921 ug/L
RT: 1.84 min Scan# 26
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 85 Resp: 105729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 26.4 | 25.1 | 37.7 |

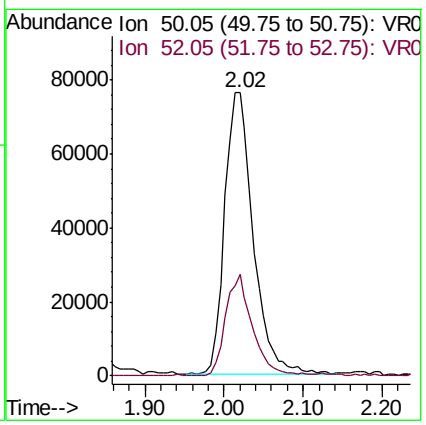


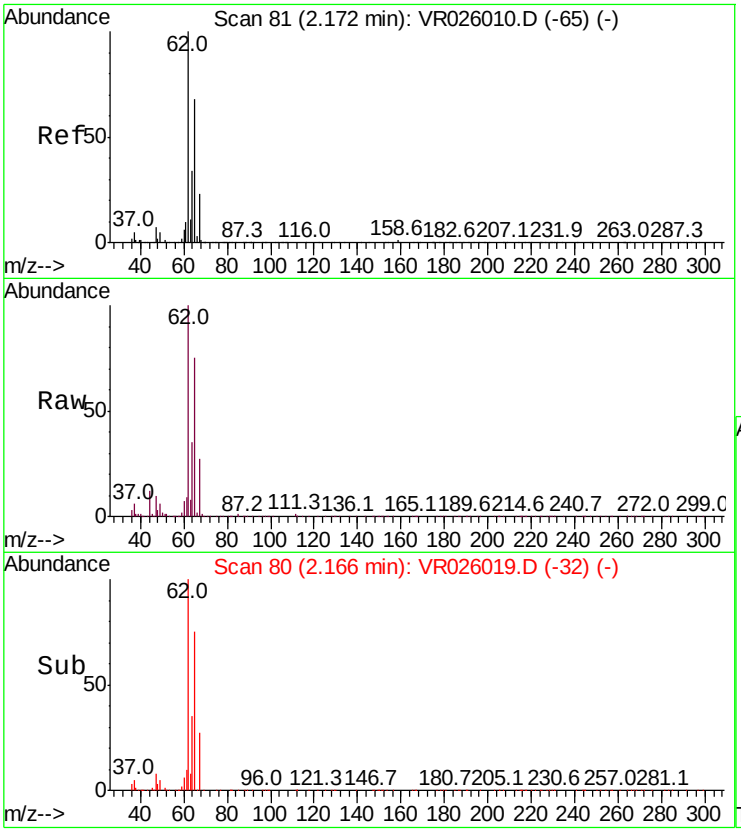




#3
Chloromethane
Concen: 4.993 ug/L
RT: 2.02 min Scan# 56
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 50 Resp: 191448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.0 | 22.1 | 41.1 |



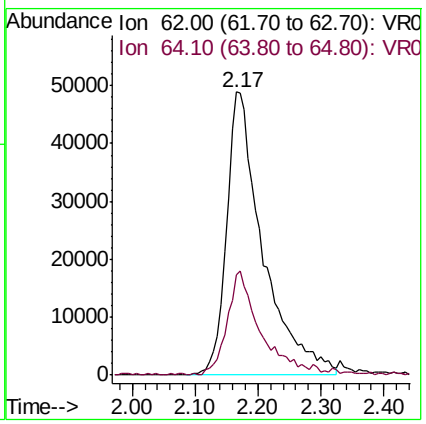


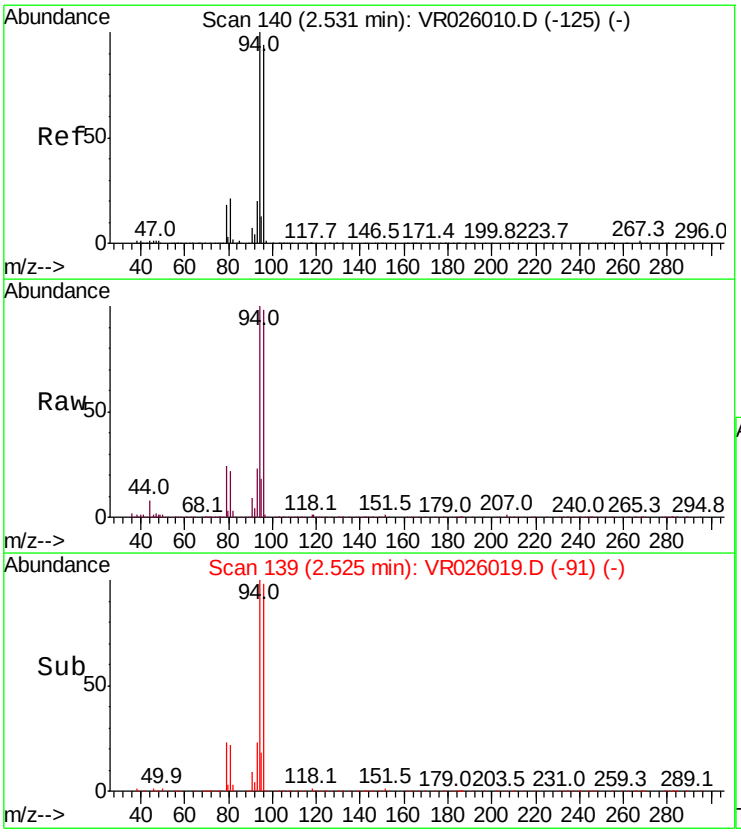

#5
Vinyl chloride
Concen: 5.118 ug/L
RT: 2.17 min Scan# 80
Delta R.T. -0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 62 Resp: 195328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 35.3 | 23.5 | 43.7 |

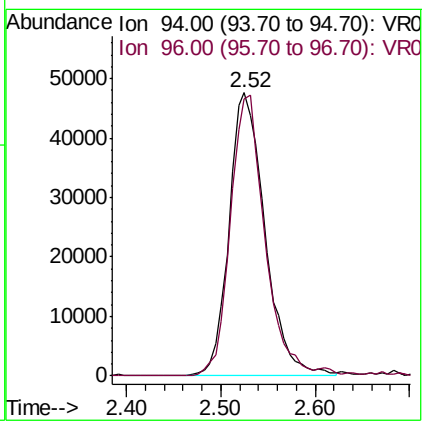


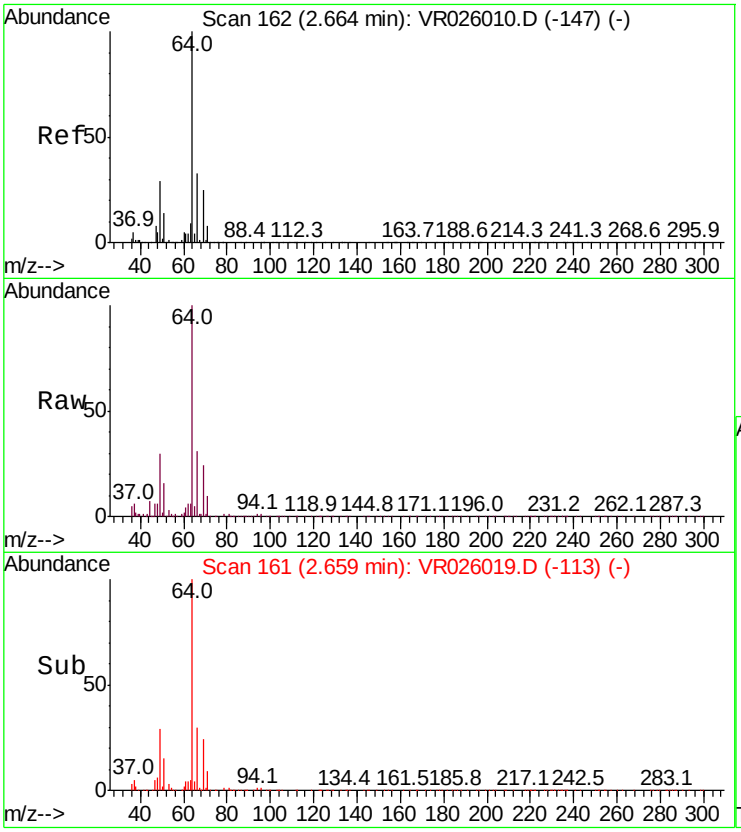




#6
Bromomethane
Concen: 5.280 ug/L
RT: 2.52 min Scan# 139
Delta R.T. -0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 94 Resp: 125830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 98.0 | 66.1 | 122.8 |



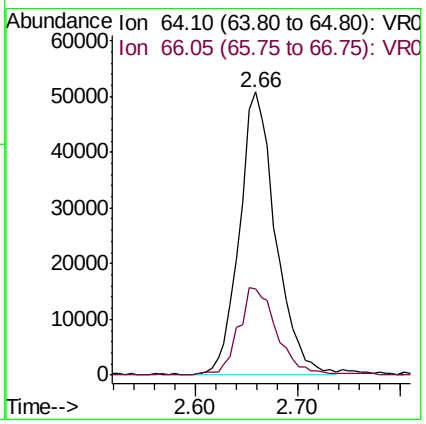


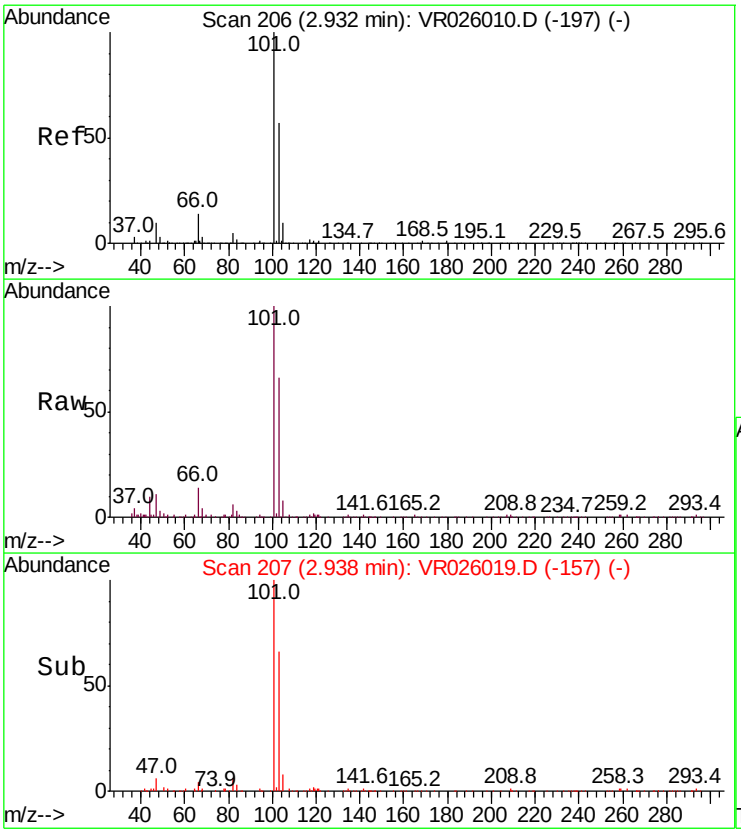

#8
Chloroethane
Concen: 5.749 ug/L
RT: 2.66 min Scan# 161
Delta R.T. -0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 64 Resp: 124847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 21.3 | 39.5 |

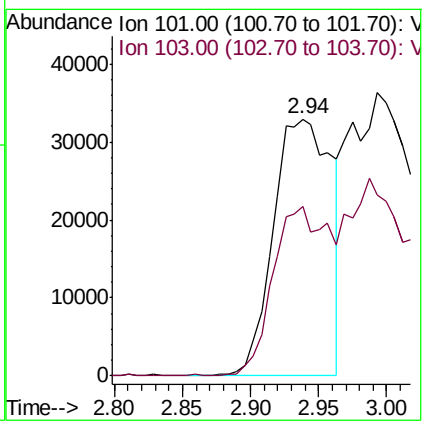


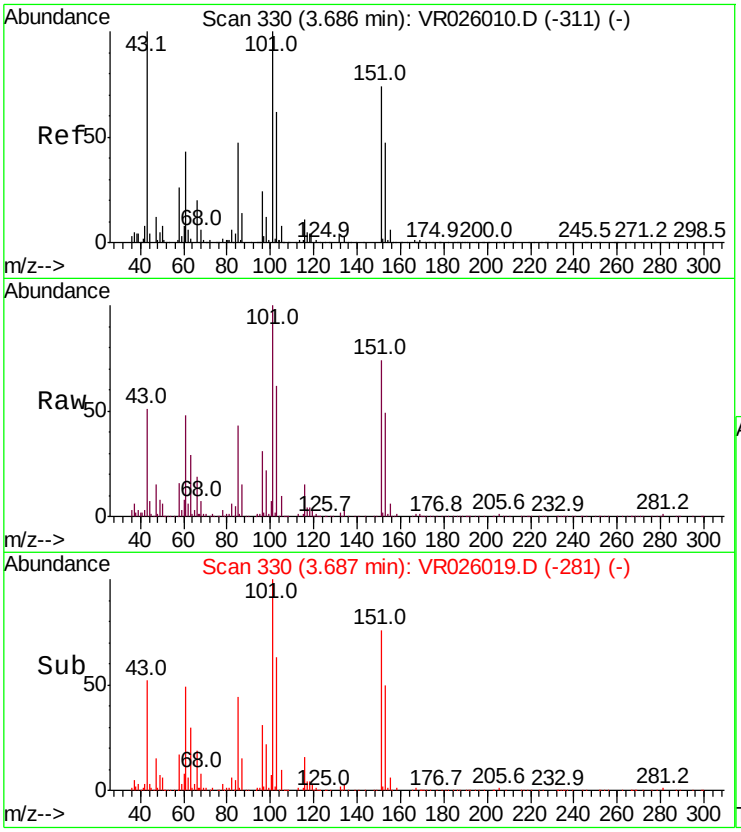




#9
Trichlorofluoromethane
Concen: 1.845 ug/L
RT: 2.94 min Scan# 207
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:101 Resp: 97768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 50.7 | 22.1 | 33.1# |



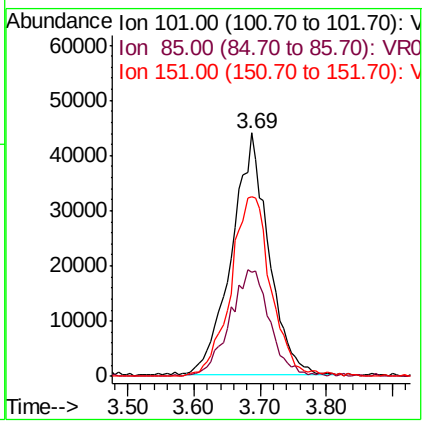


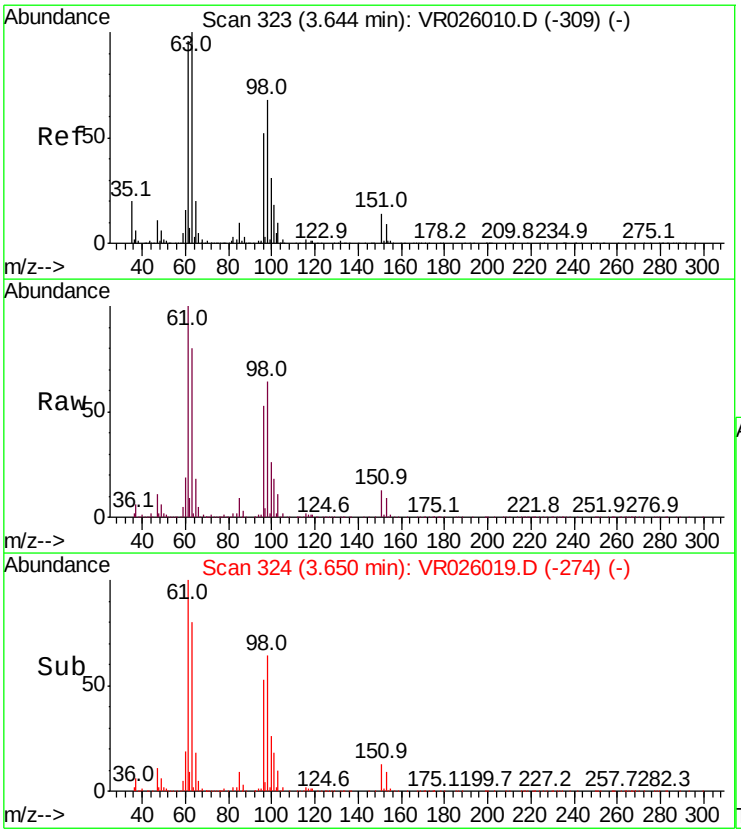

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.286 ug/L
RT: 3.69 min Scan# 330
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:101 Resp: 171222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.7 | 38.2 | 57.4 |
| 151 | 80.0 | 58.4 | 87.6 |

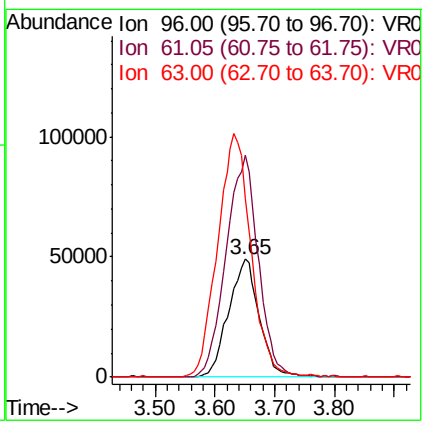


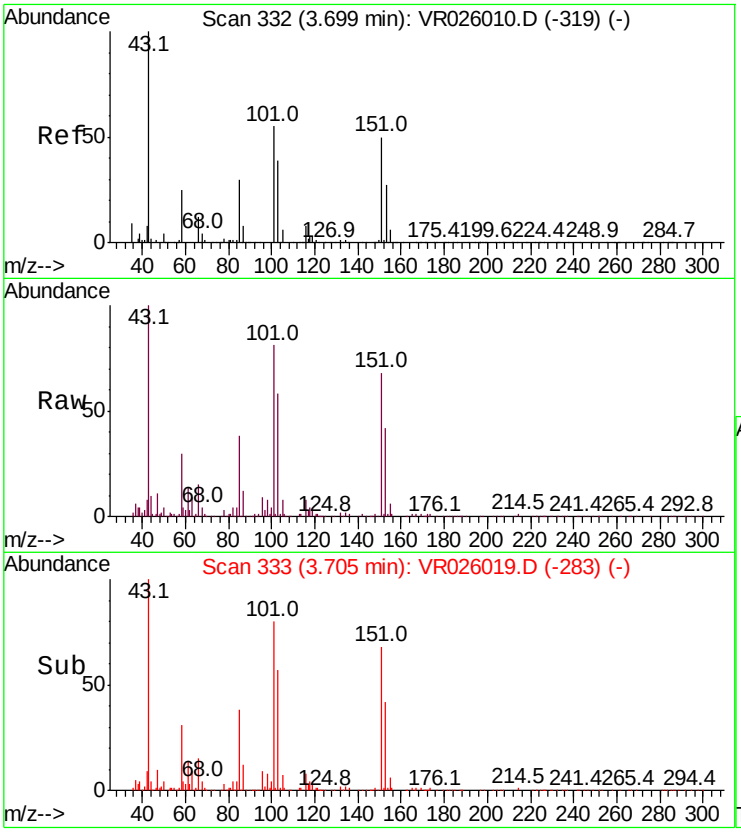




#12
1,1-Dichloroethene
Concen: 5.269 ug/L
RT: 3.65 min Scan# 324
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 96 Resp: 176452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 188.4 | 145.0 | 269.4 |
| 63 | 151.5 | 123.8 | 230.0 |



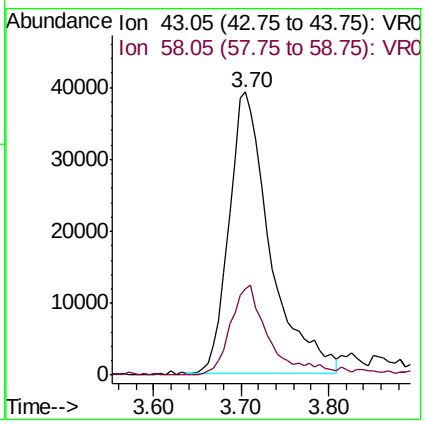


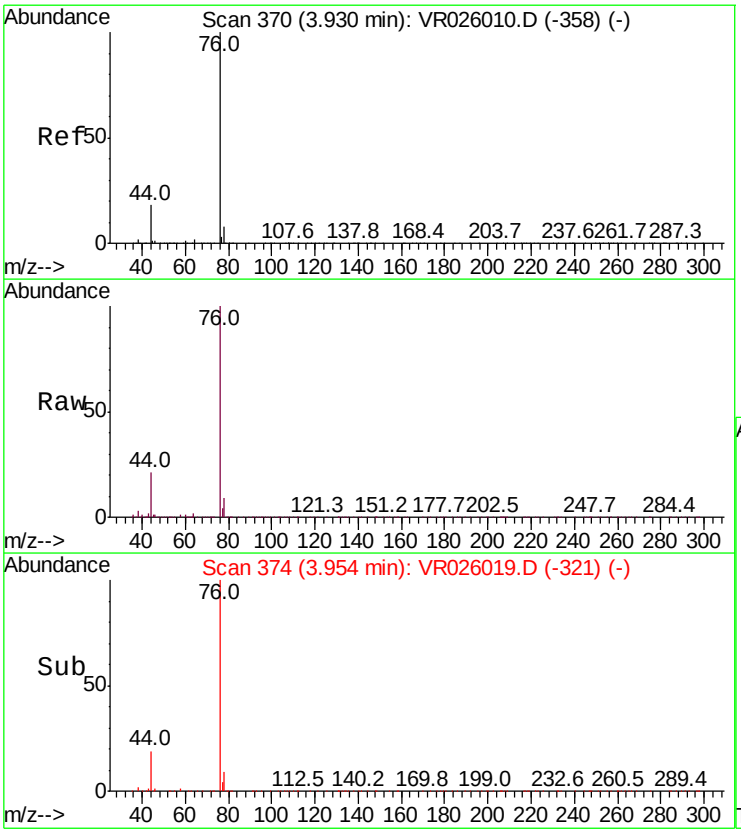

#13
Acetone
Concen: 45.138 ug/L
RT: 3.70 min Scan# 333
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 43 Resp: 127603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.8 | 0.0 | 51.4 |

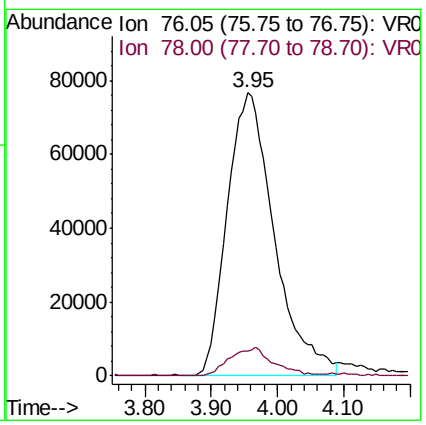


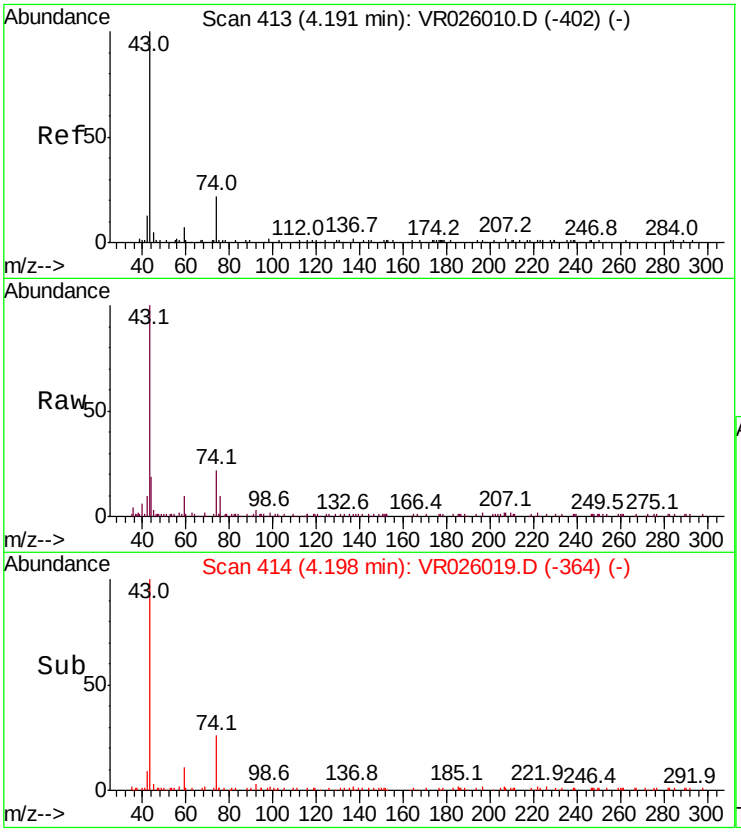




#14
Carbon disulfide
Concen: 4.674 ug/L
RT: 3.95 min Scan# 374
Delta R.T. 0.02 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 76 Resp: 378978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.0 | 10.6 |



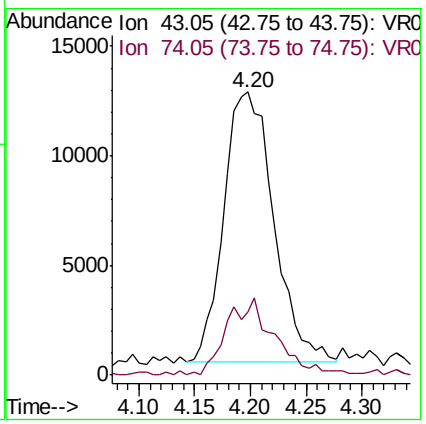


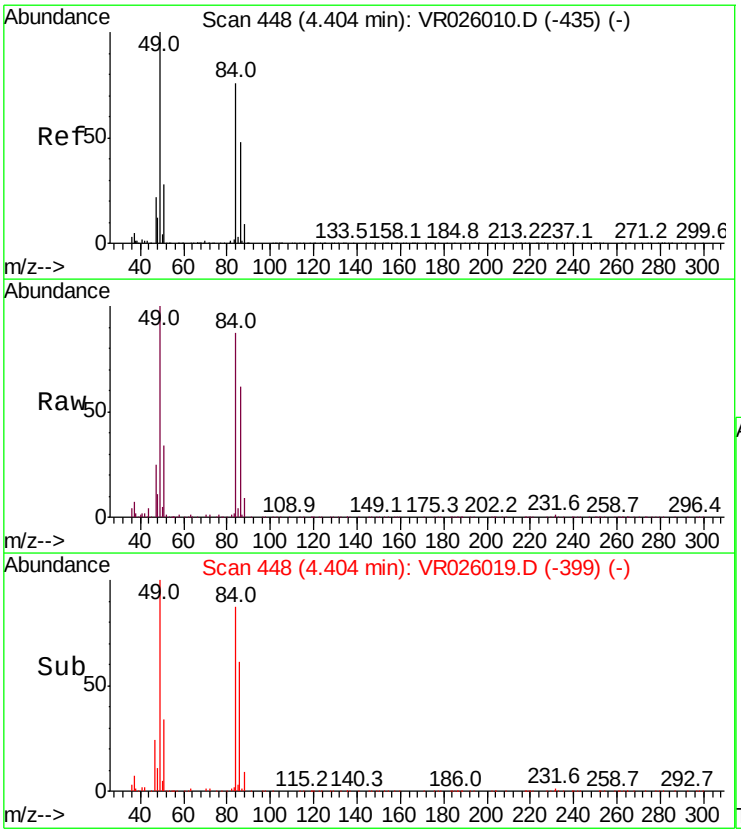

#15
Methyl Acetate
Concen: 4.867 ug/L
RT: 4.20 min Scan# 414
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 43 Resp: 38149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.5 | 19.0 | 28.4 |

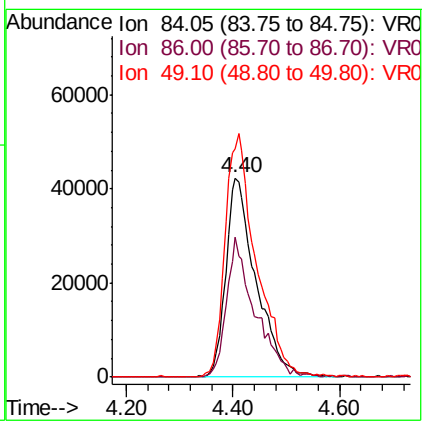


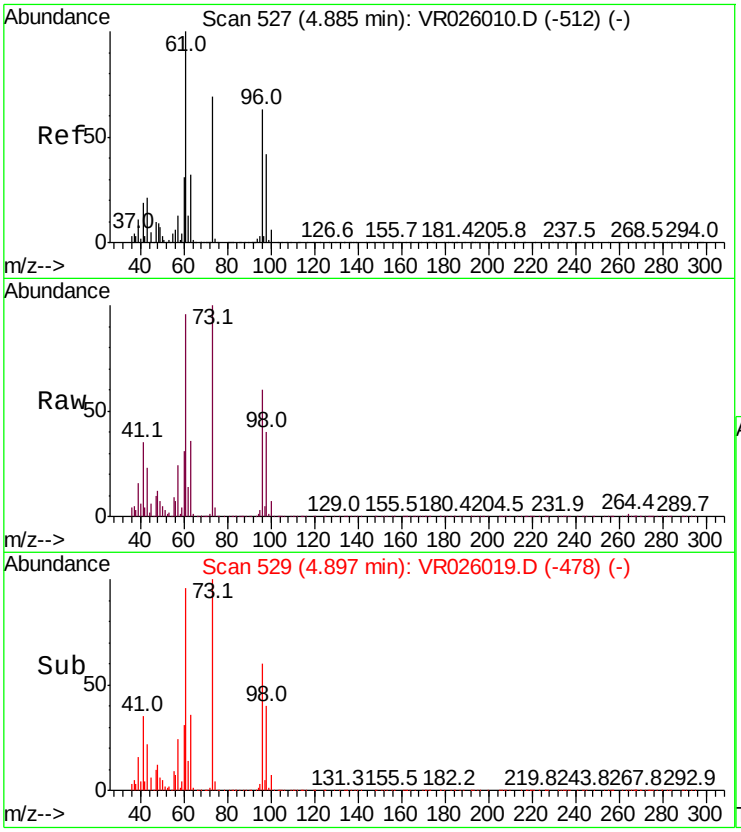




#16
Methylene chloride
Concen: 5.427 ug/L
RT: 4.40 min Scan# 448
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 84 Resp: 167128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 70.4 | 43.1 | 80.1 |
| 49 | 114.4 | 95.5 | 177.3 |



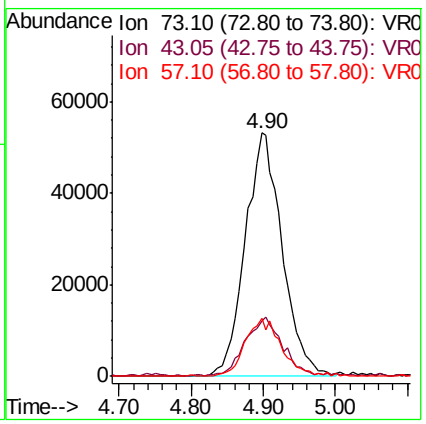


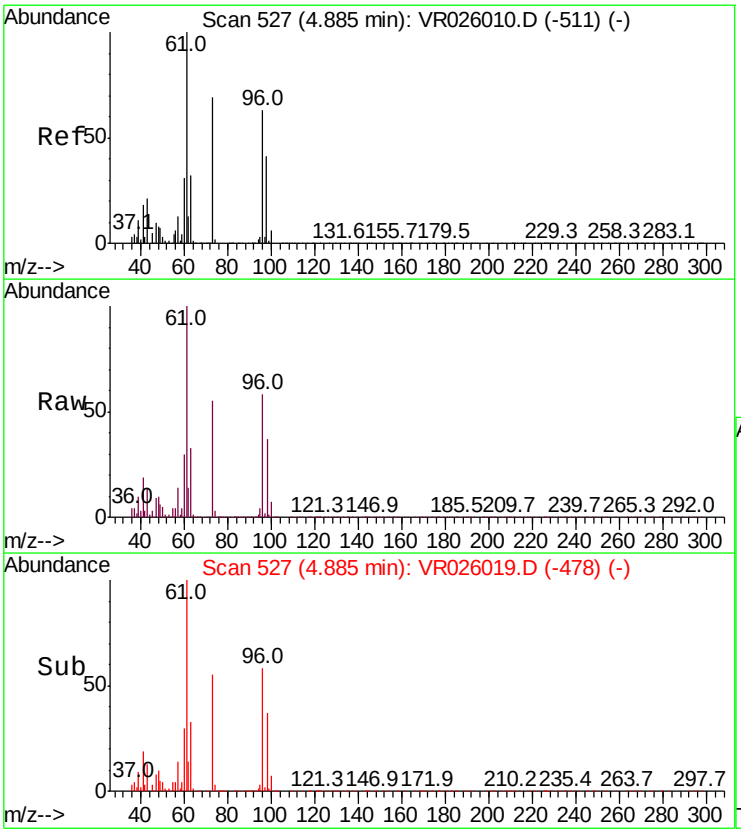

#17
Methyl tert-butyl Ether
Concen: 5.104 ug/L
RT: 4.90 min Scan# 529
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 73 Resp: 189287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 23.7 | 19.8 | 29.8 |
| 57 | 23.1 | 17.9 | 26.9 |

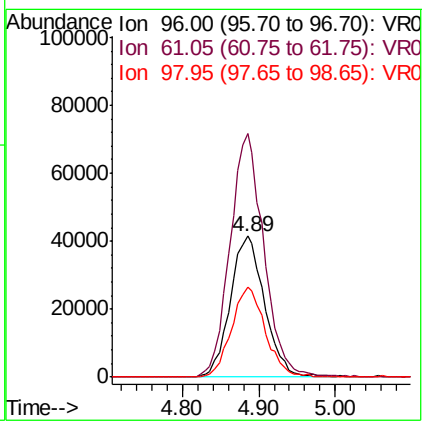


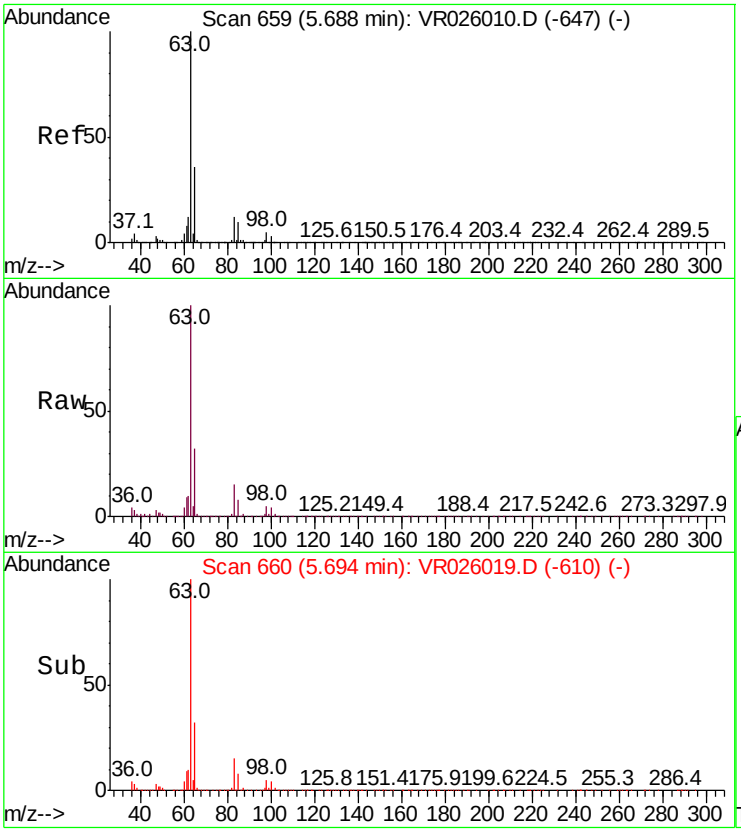




#18
trans-1,2-Dichloroethene
Concen: 4.647 ug/L
RT: 4.89 min Scan# 527
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 96 Resp: 128719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 172.9 | 127.4 | 236.6 |
| 98 | 63.8 | 43.8 | 81.3 |



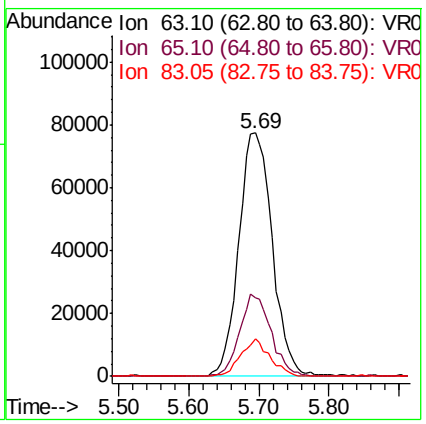


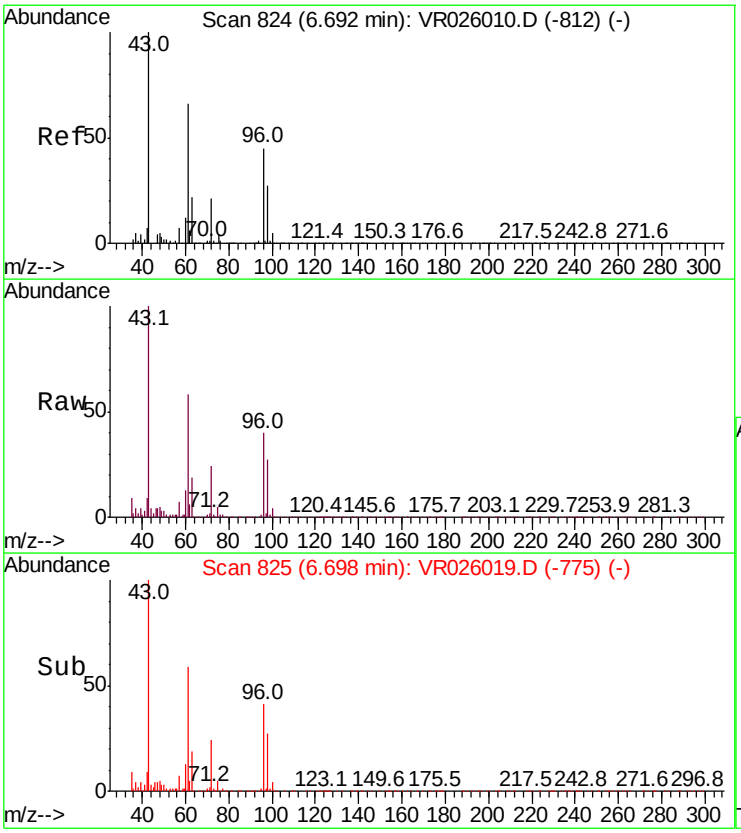

#19
1,1-Dichloroethane
Concen: 4.687 ug/L
RT: 5.69 min Scan# 660
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 63 Resp: 257024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.2 | 21.1 | 39.1 |
| 83 | 15.2 | 8.9 | 16.5 |

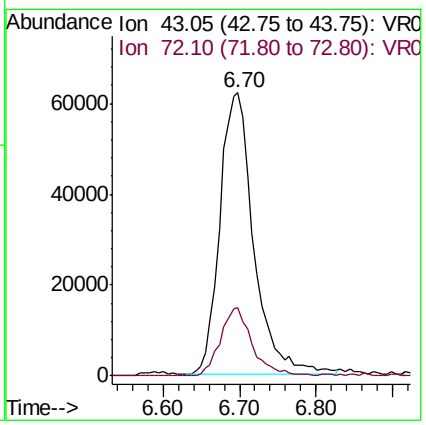


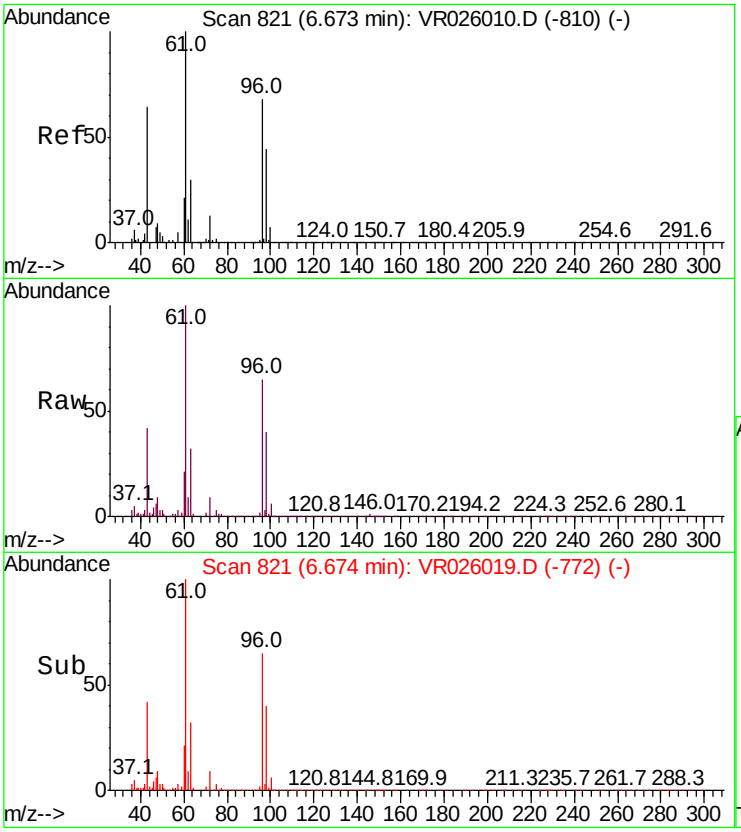




#21
2-Butanone
Concen: 49.025 ug/L
RT: 6.70 min Scan# 825
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 43 Resp: 190621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 11.9 | 35.7 |



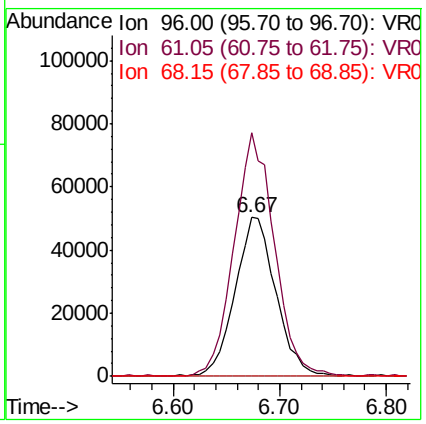


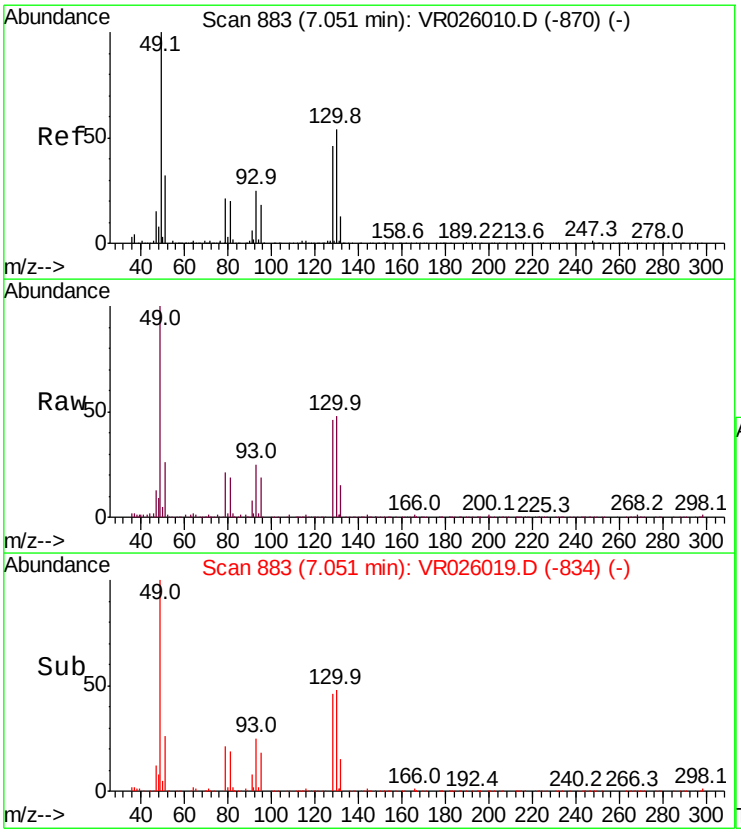

#22
cis-1,2-Dichloroethene
Concen: 4.780 ug/L
RT: 6.67 min Scan# 821
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :** MSVOA_R
**ClientSampleId :**

Tgt Ion: 96 Resp: 133230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.3 | 108.7 | 201.9 |
| 68 | 0.0 | 0.1 | 0.1# |

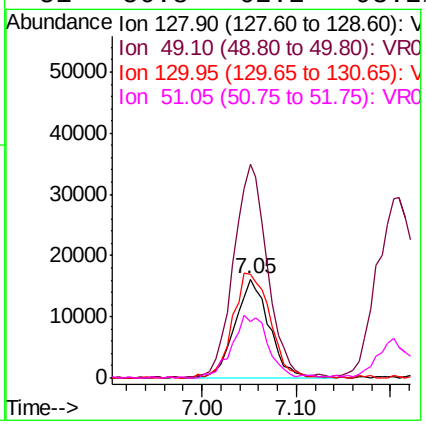


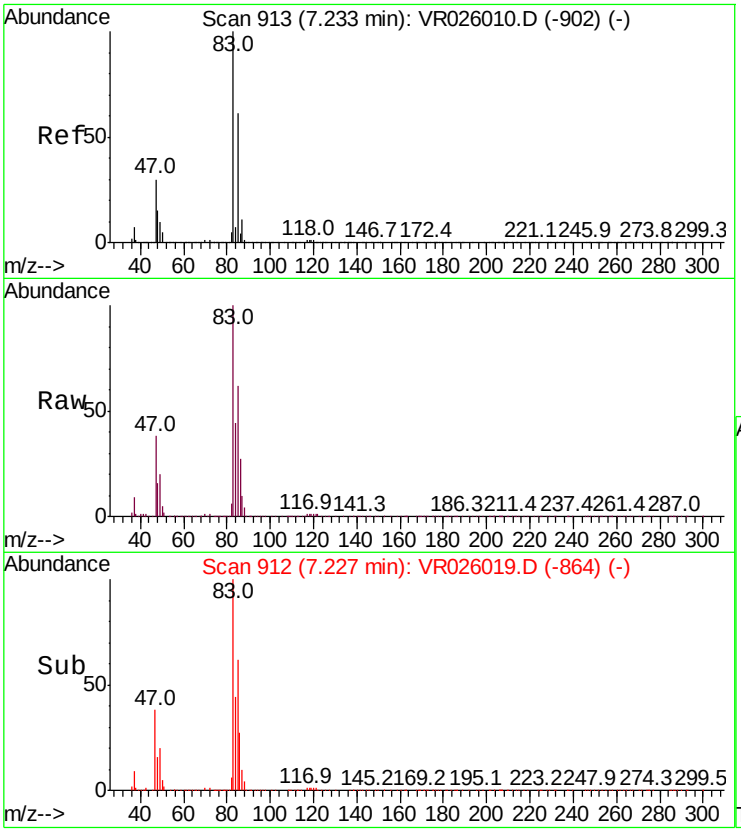




#23
Bromochloromethane
Concen: 5.381 ug/L
RT: 7.05 min Scan# 883
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:128 Resp: 40688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 216.2 | 175.0 | 325.0 |
| 130 | 104.6 | 85.6 | 159.0 |
| 51 | 56.8 | 62.2 | 93.2# |



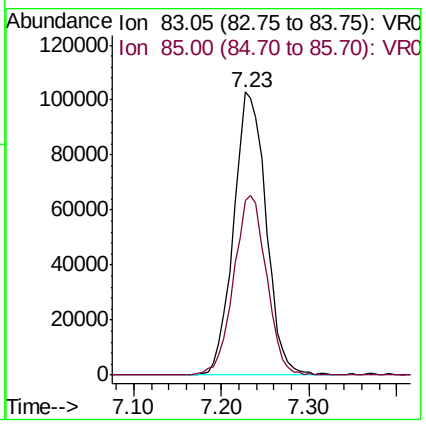


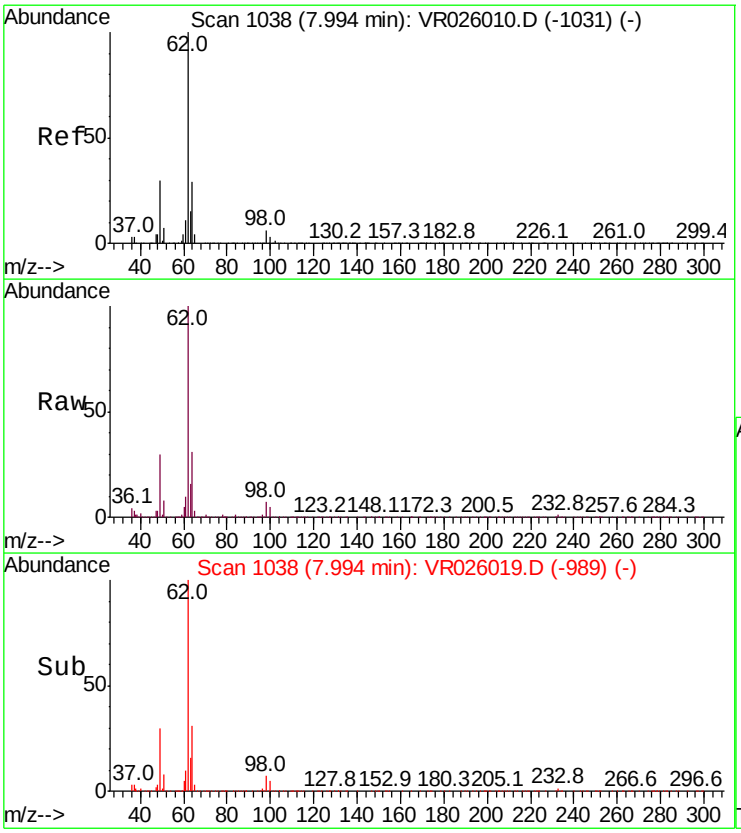

#25
Chloroform
Concen: 4.947 ug/L
RT: 7.23 min Scan# 912
Delta R.T. -0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 83 Resp: 264199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.7 | 43.8 | 81.4 |

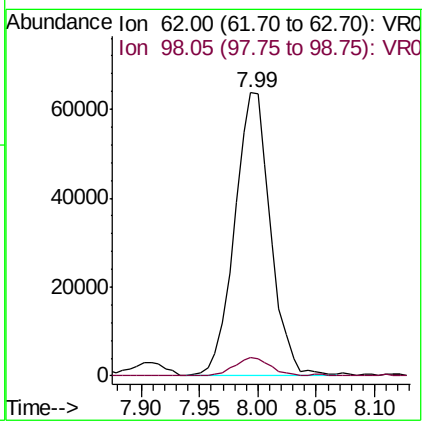


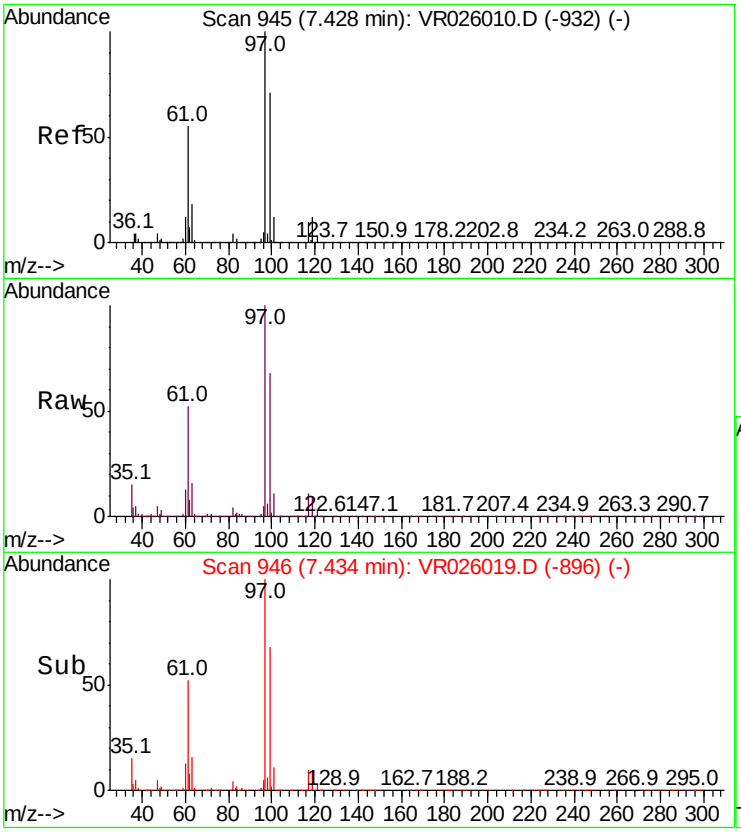




#27
1,2-Dichloroethane
Concen: 5.100 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 62 Resp: 135902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.7 | 5.2 | 7.8 |



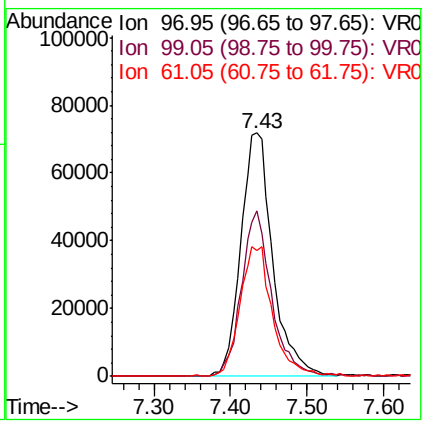


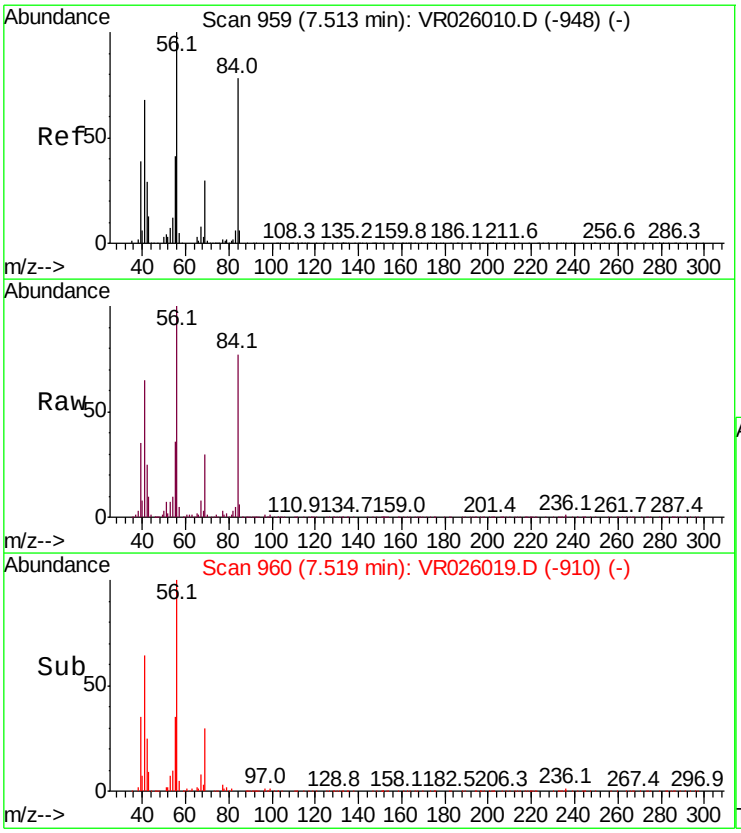

#29
1,1,1-Trichloroethane
Concen: 4.632 ug/L
RT: 7.43 min Scan# 946
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 97 Resp: 207820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.0 | 76.6 |
| 61 | 54.1 | 41.6 | 62.4 |

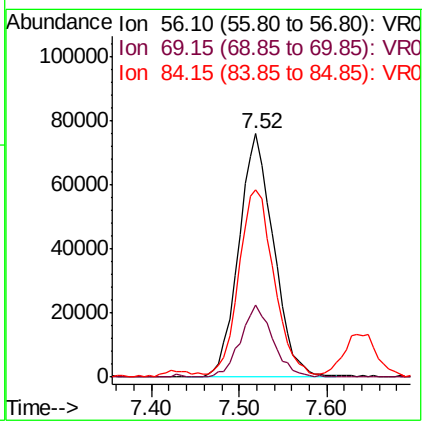


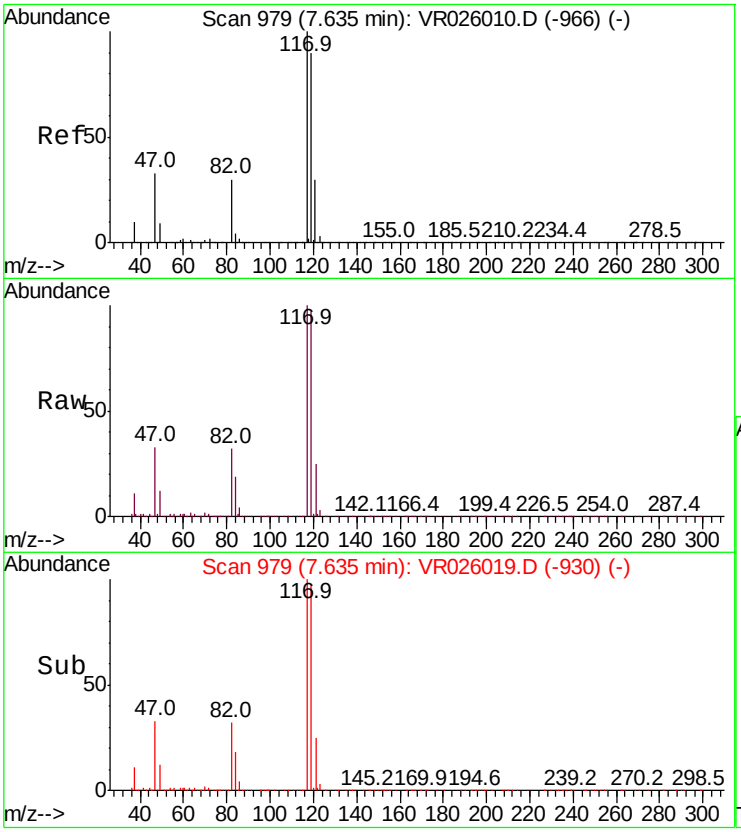




#30
Cyclohexane
Concen: 3.750 ug/L
RT: 7.52 min Scan# 960
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 56 Resp: 210219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 27.3 | 24.8 | 37.2 |
| 84 | 78.0 | 59.8 | 89.8 |



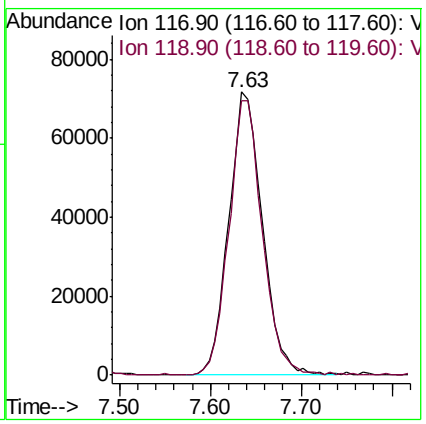


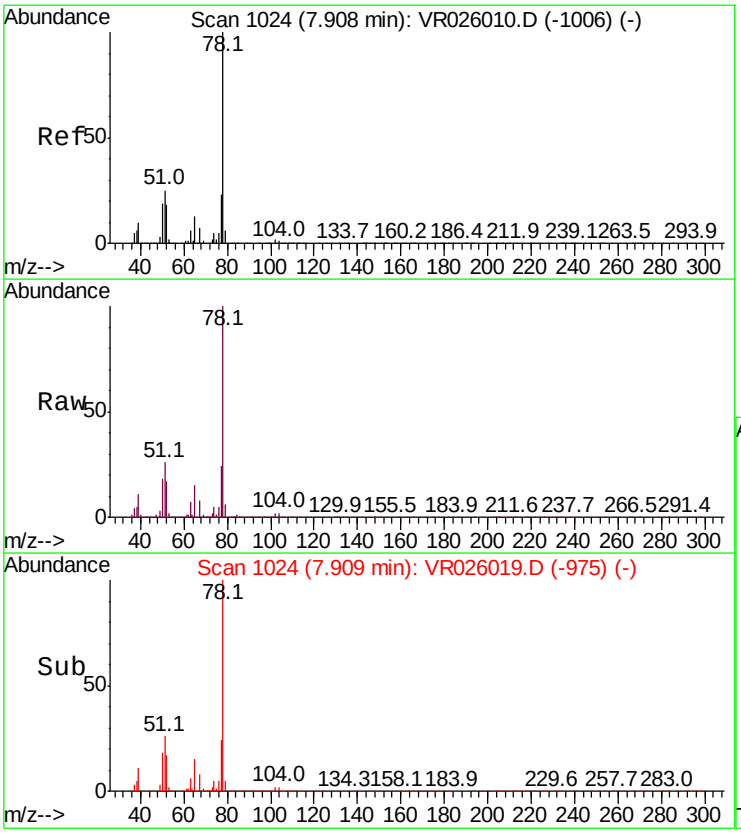

#31
Carbon tetrachloride
Concen: 4.740 ug/L
RT: 7.63 min Scan# 979
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :** MSVOA_R
**ClientSampleId :**

Tgt Ion:117 Resp: 184167

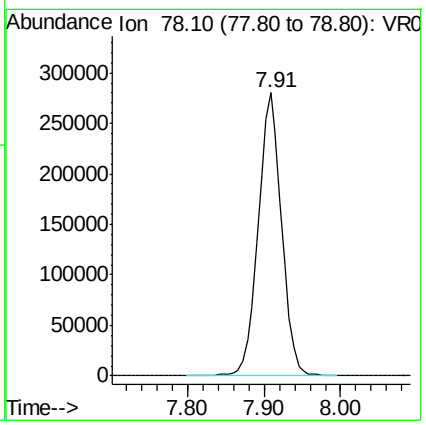
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.1 | 75.6 | 113.4 |

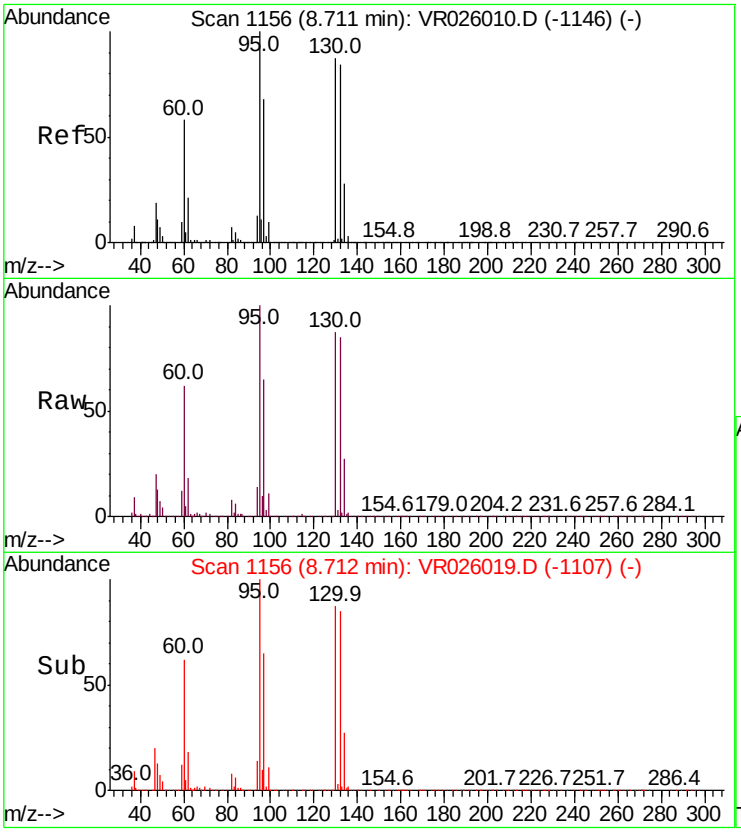



#33
Benzene
Concen: 4.456 ug/L
RT: 7.91 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 78 Resp: 596307



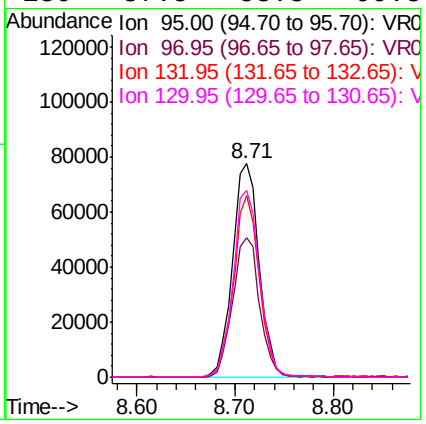


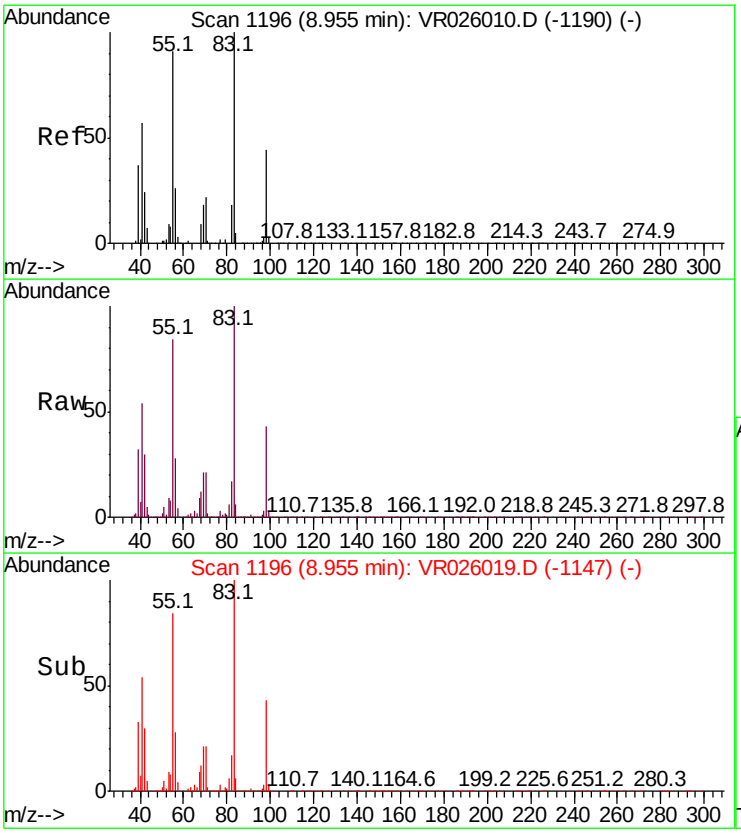

#34
Trichloroethene
Concen: 4.172 ug/L
RT: 8.71 min Scan# 1156
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 95 Resp: 147119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 65.4 | 43.9 | 81.5 |
| 132 | 85.0 | 53.3 | 98.9 |
| 130 | 87.5 | 53.8 | 99.8 |

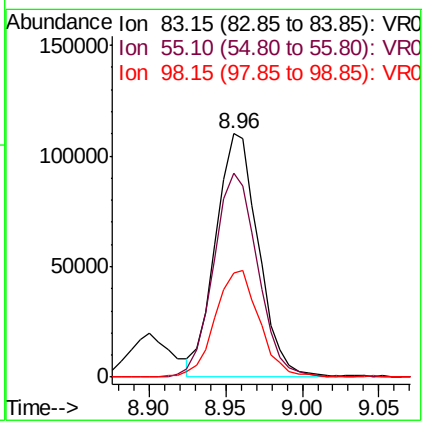


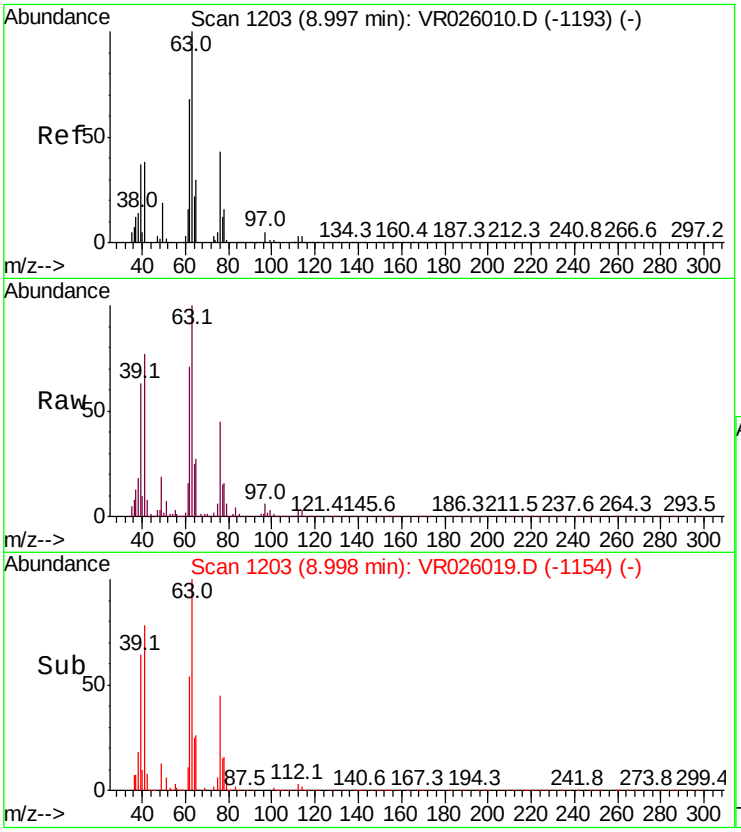




#35
Methylcyclohexane
Concen: 4.007 ug/L
RT: 8.96 min Scan# 1196
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 83 Resp: 212463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 86.2 | 71.8 | 107.6 |
| 98 | 45.3 | 34.2 | 51.4 |

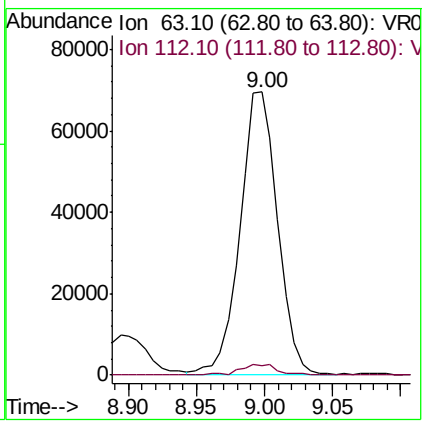




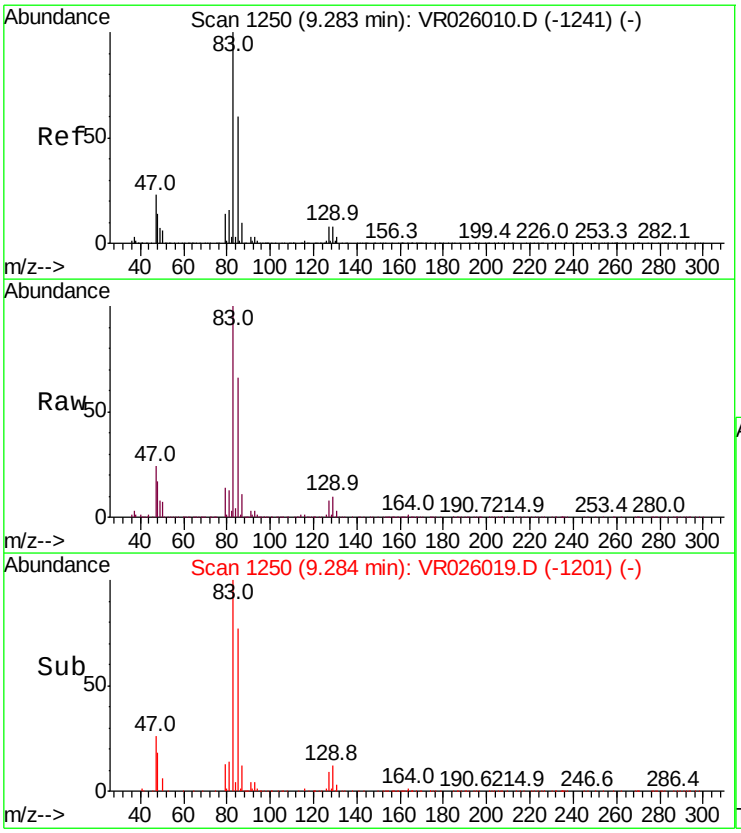

#37
1,2-Dichloropropane
Concen: 4.636 ug/L
RT: 9.00 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 63 Resp: 133095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 3.7 | 2.5 | 3.7 |



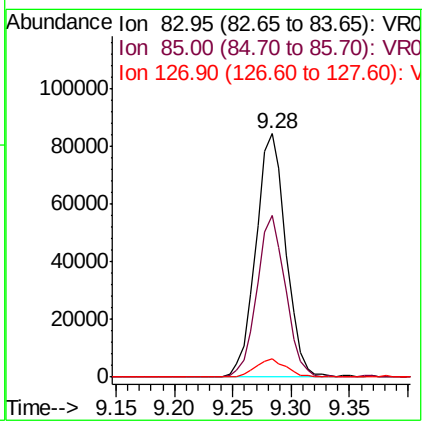

**Instrument :**
MSVOA_R
**ClientSampleId :**

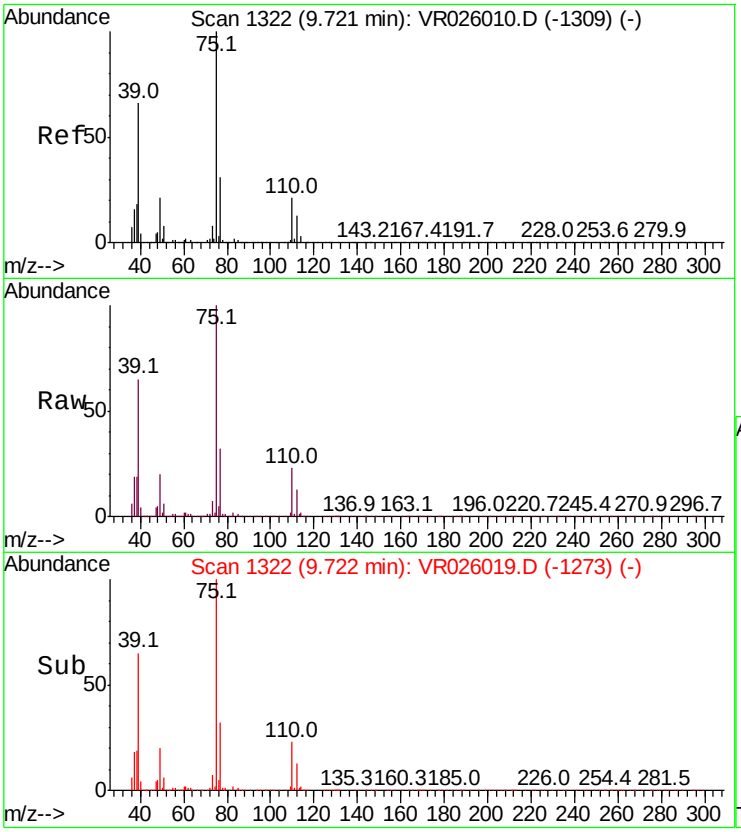



#38
Bromodichloromethane
Concen: 4.857 ug/L
RT: 9.28 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 83 Resp: 150465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.5 | 42.8 | 79.4 |
| 127 | 7.7 | 5.6 | 8.4 |



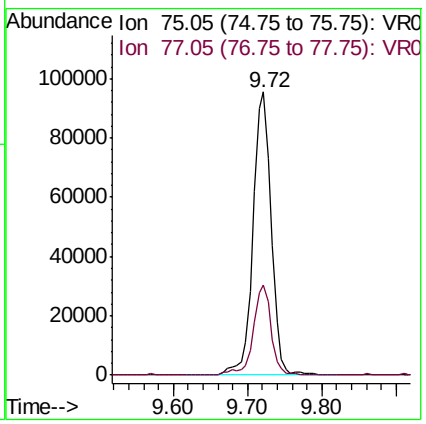


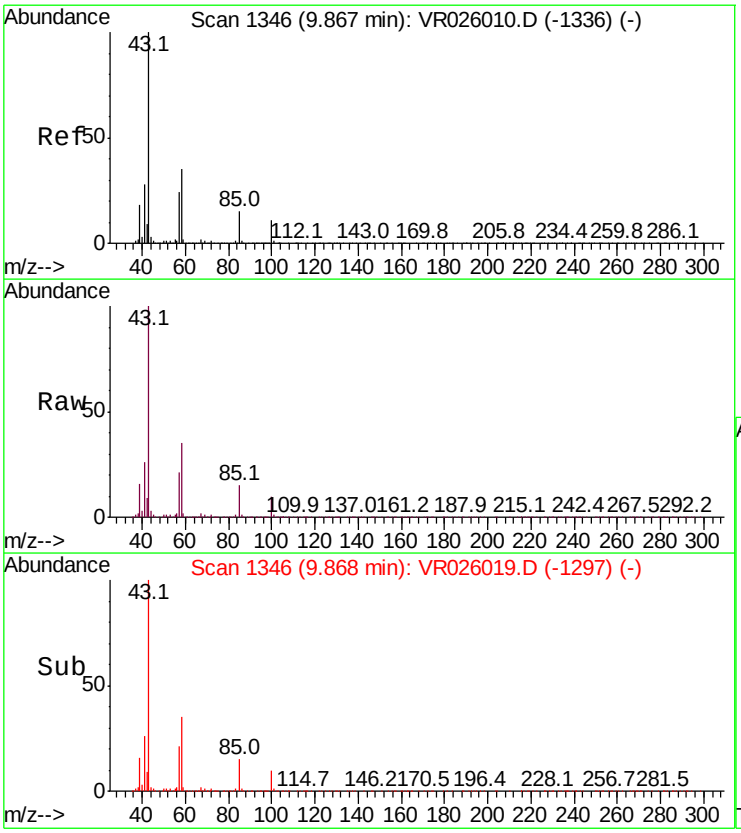

#39
cis-1,3-Dichloropropene
Concen: 5.095 ug/L
RT: 9.72 min Scan# 1322
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :** MSVOA_R
**ClientSampleId :**

Tgt Ion: 75 Resp: 164015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 21.5 | 39.9 |

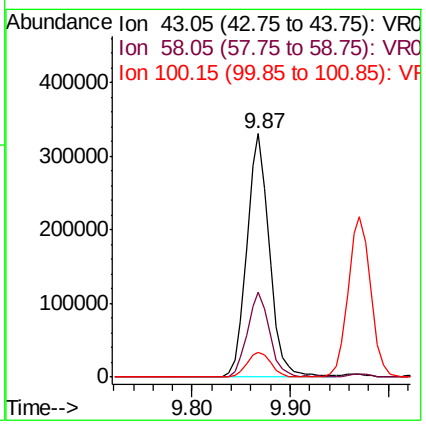


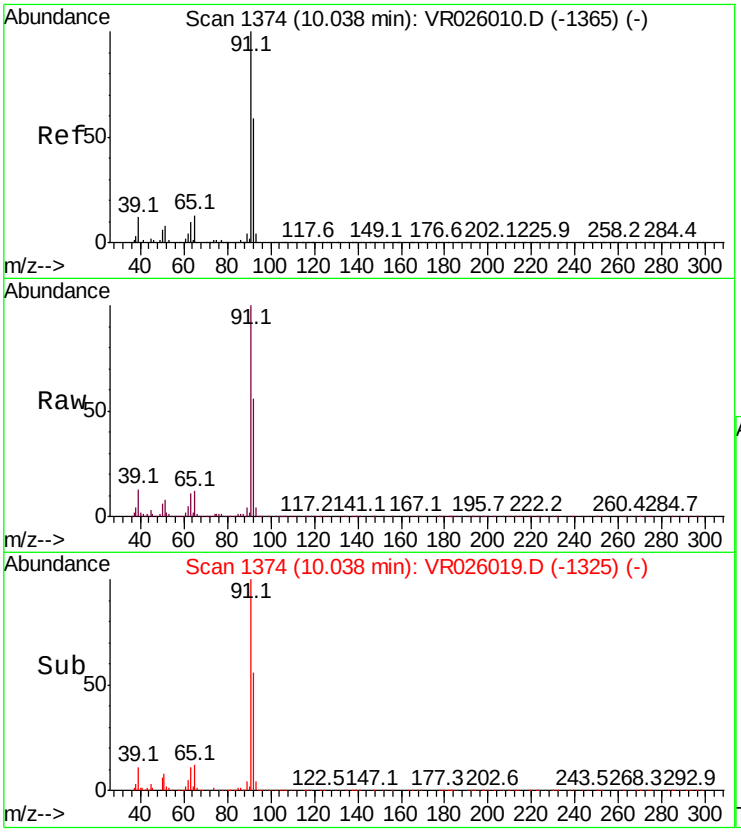




#40
4-Methyl-2-pentanone
Concen: 52.249 ug/L
RT: 9.87 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 43 Resp: 527487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.5 | 28.6 | 43.0 |
| 100 | 10.9 | 9.0 | 13.4 |



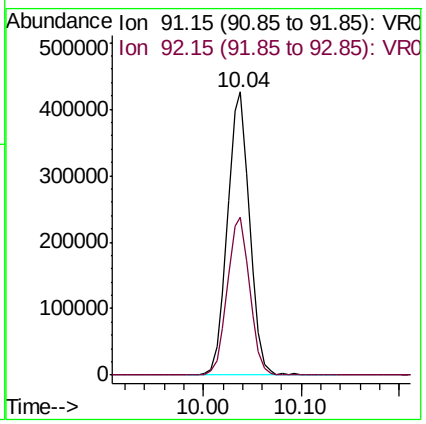


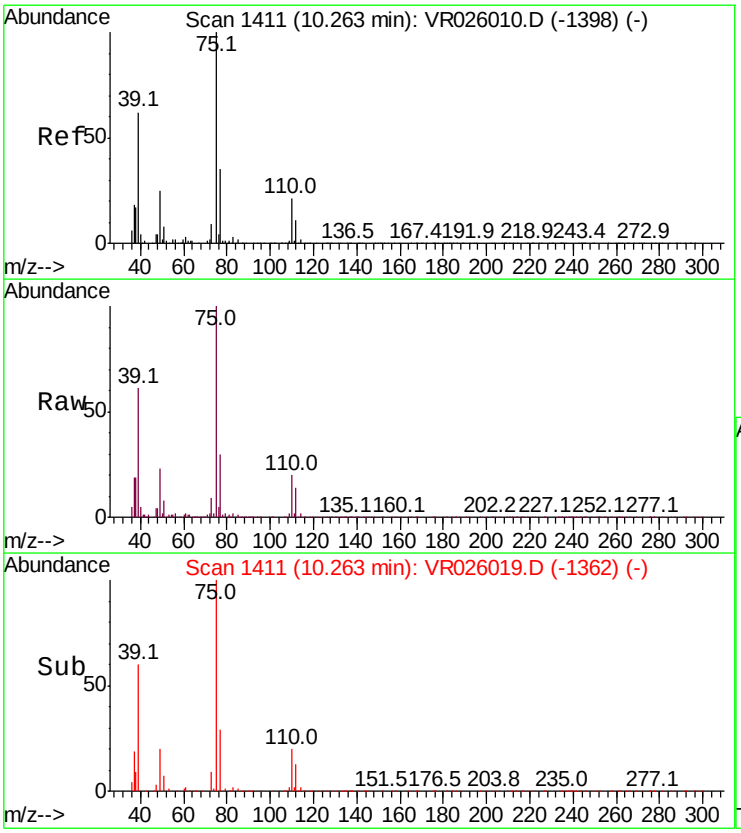

#42
Toluene
Concen: 4.779 ug/L
RT: 10.04 min Scan# 1374
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 91 Resp: 664599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.7 | 41.8 | 77.6 |

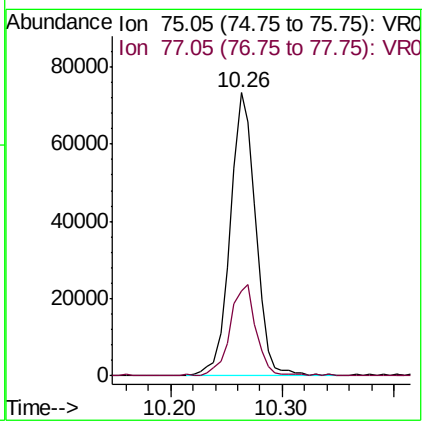


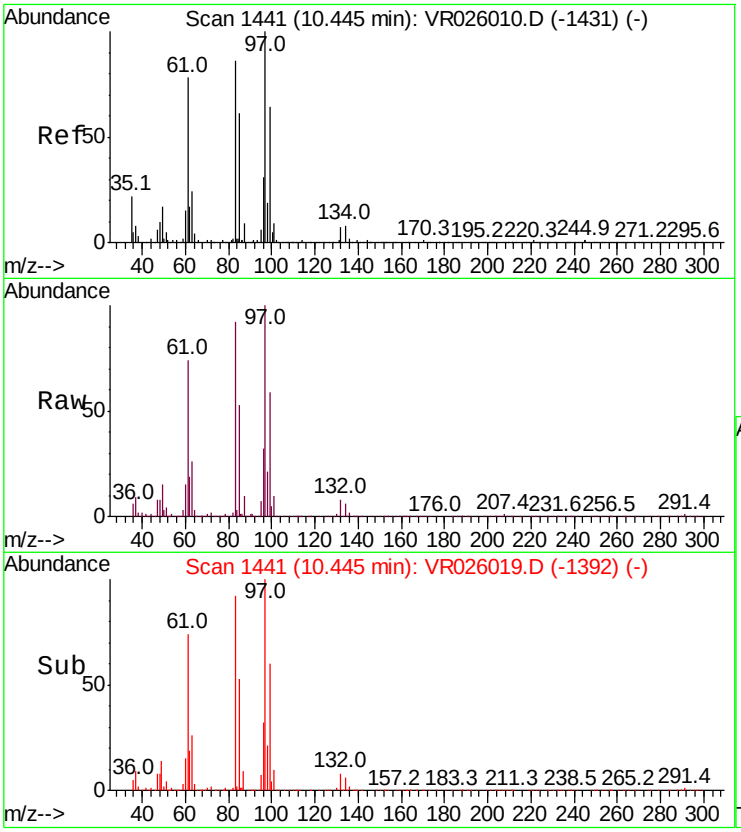




#44
trans-1,3-Dichloropropene
Concen: 5.472 ug/L
RT: 10.26 min Scan# 1411
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 75 Resp: 115007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.0 | 23.0 | 42.8 |



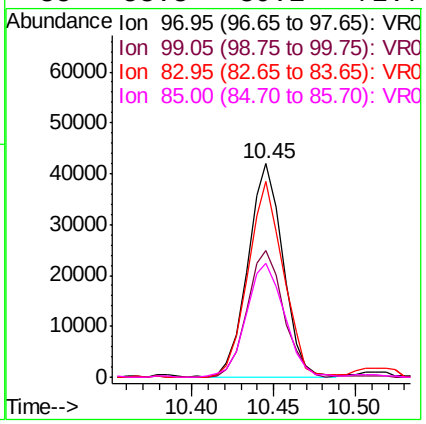


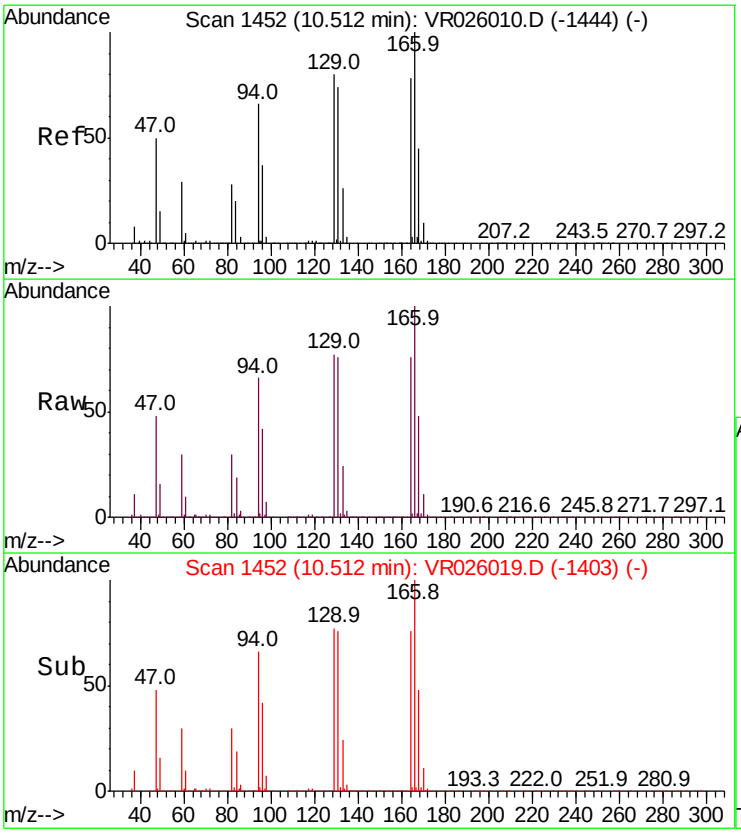

#45
1,1,2-Trichloroethane
Concen: 4.862 ug/L
RT: 10.45 min Scan# 1441
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 97 Resp: 63141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 59.3 | 39.6 | 73.6 |
| 83 | 91.6 | 62.2 | 115.6 |
| 85 | 53.3 | 39.1 | 72.7 |

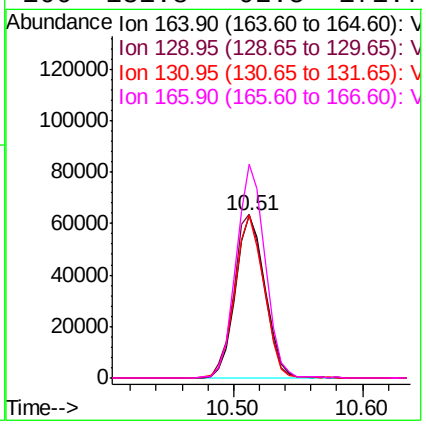


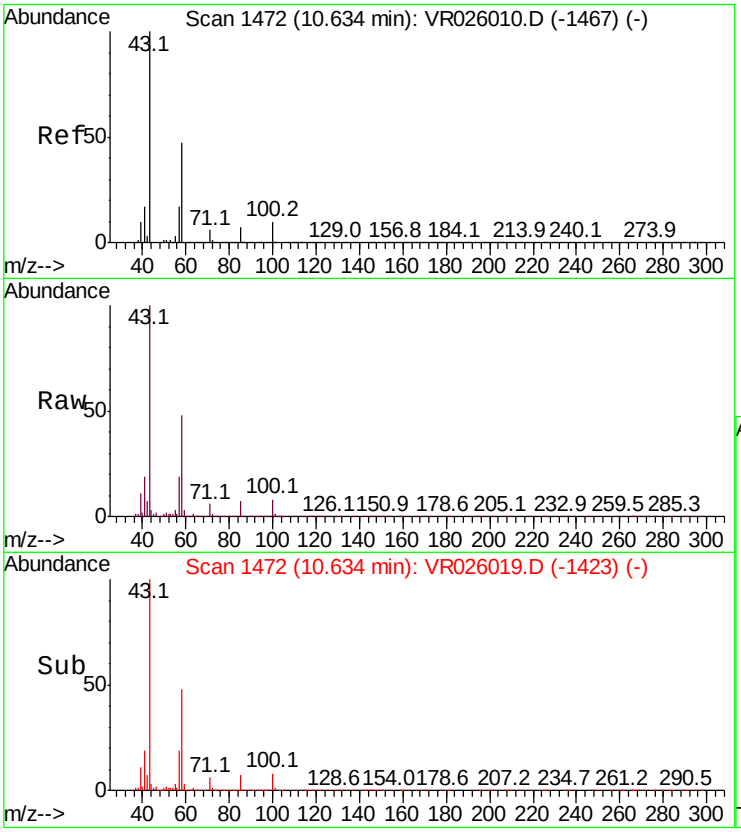




#47
Tetrachloroethene
Concen: 4.621 ug/L
RT: 10.51 min Scan# 1452
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:164 Resp: 100399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 101.5 | 80.8 | 150.2 |
| 131 | 100.0 | 74.5 | 138.3 |
| 166 | 131.8 | 92.5 | 171.7 |



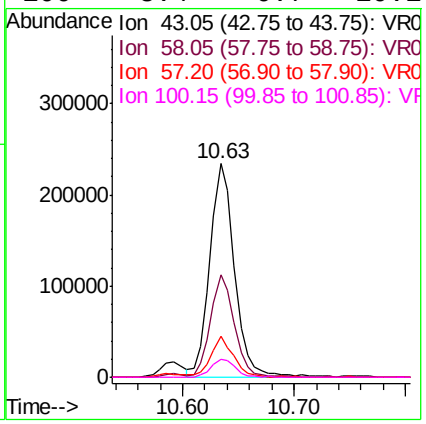


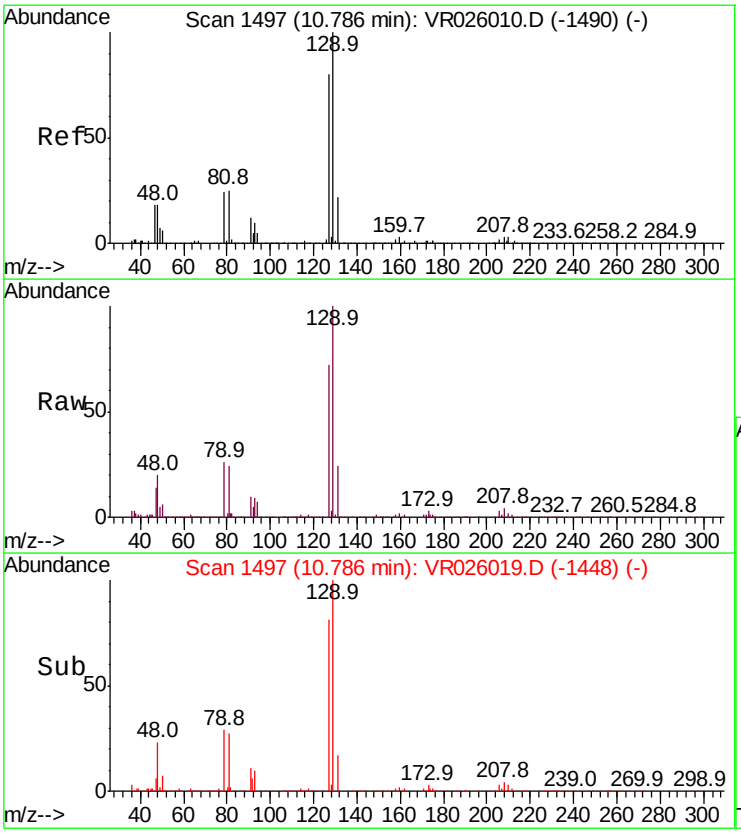

#48
2-Hexanone
Concen: 54.309 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :** MSVOA_R
**ClientSampleId :**

Tgt Ion: 43 Resp: 358975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.4 | 39.5 | 59.3 |
| 57 | 16.7 | 14.6 | 21.8 |
| 100 | 8.4 | 6.7 | 10.1 |

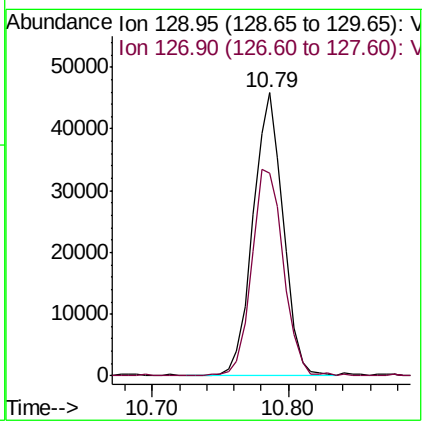


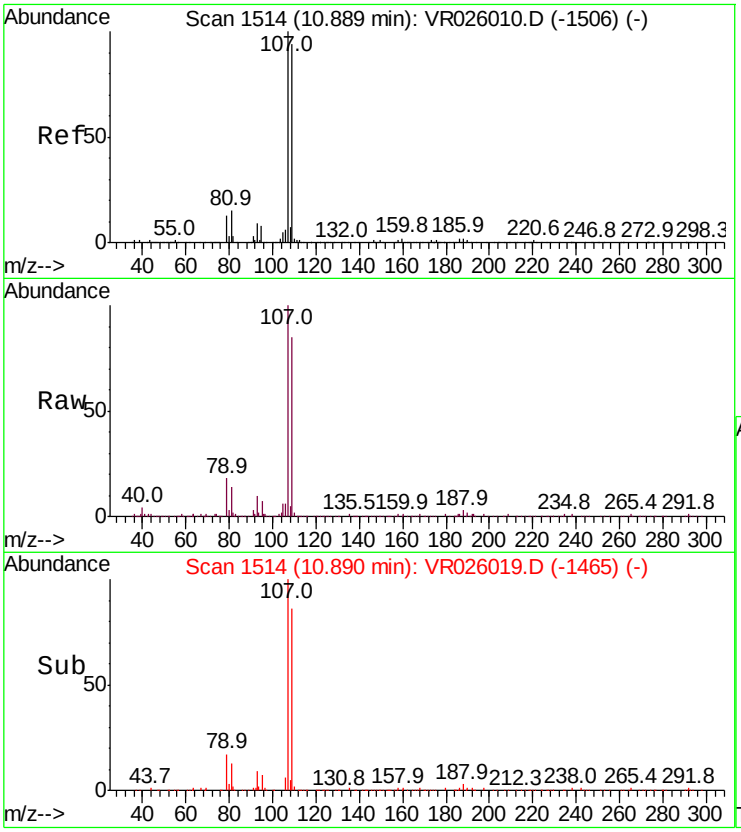




#49
Dibromochloromethane
Concen: 5.358 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:129 Resp: 70617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 71.7 | 54.1 | 100.5 |



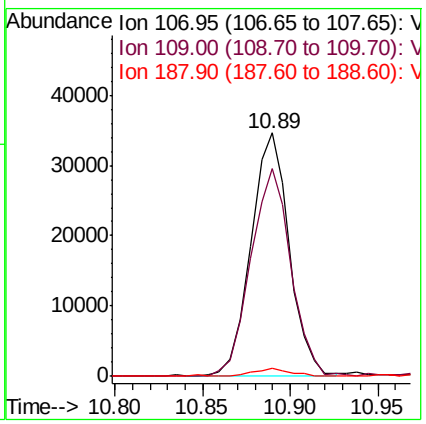


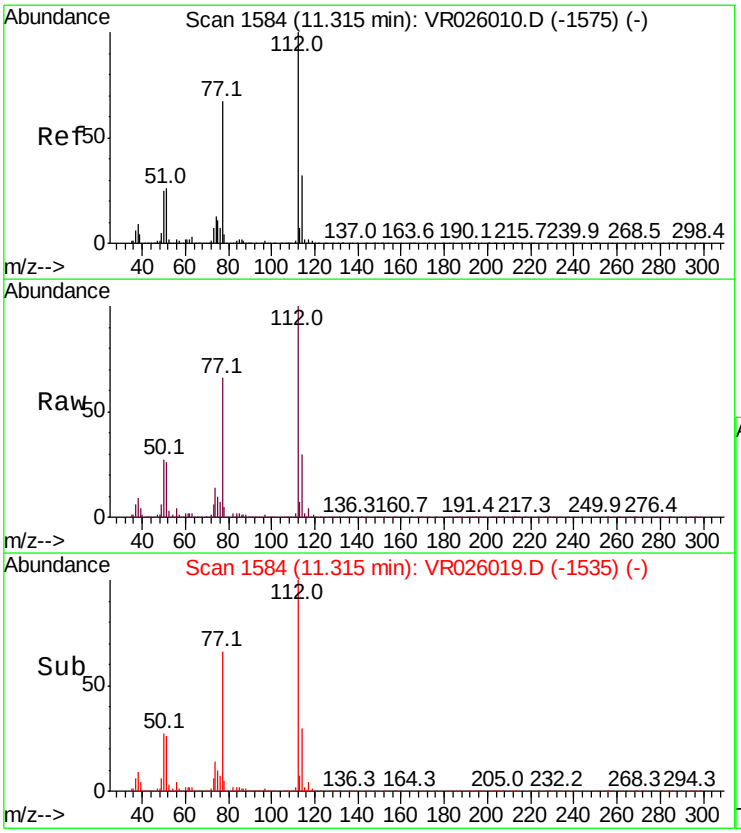

#50
1,2-Dibromoethane
Concen: 5.129 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :** MSVOA_R
**ClientSampleId :**

Tgt Ion:107 Resp: 52557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 85.2 | 63.5 | 117.9 |
| 188 | 3.4 | 1.7 | 2.5# |

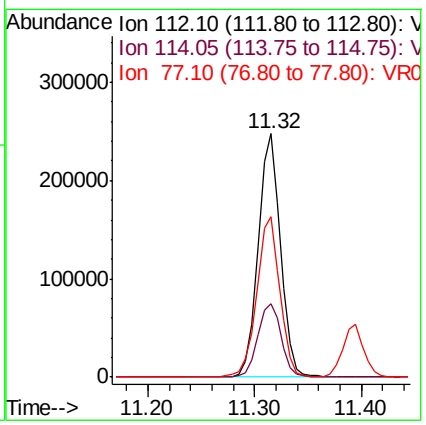


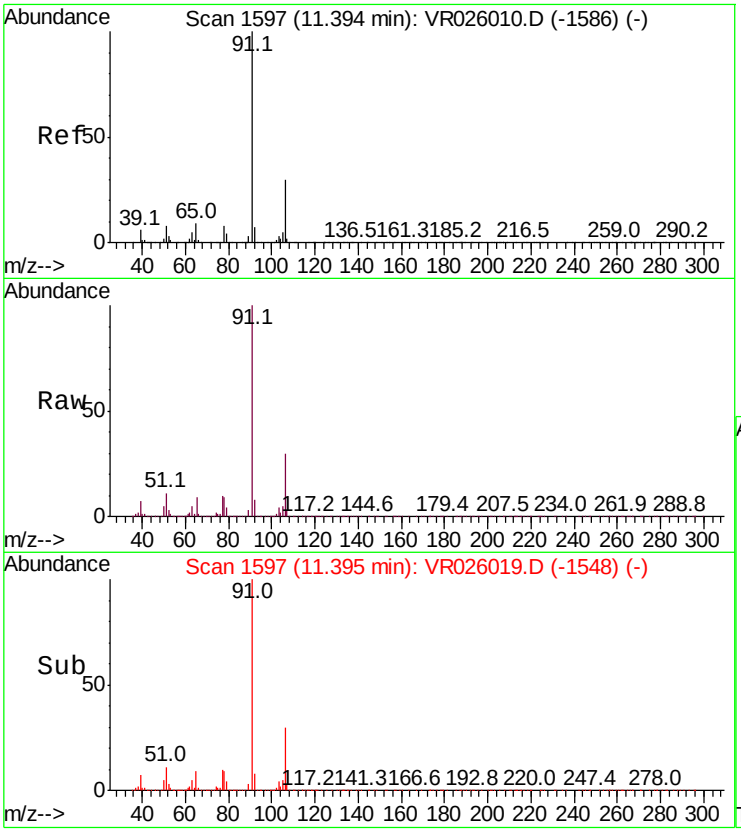




#51
Chlorobenzene
Concen: 4.908 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:112 Resp: 362060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.4 | 22.7 | 42.3 |
| 77 | 66.0 | 58.5 | 87.7 |



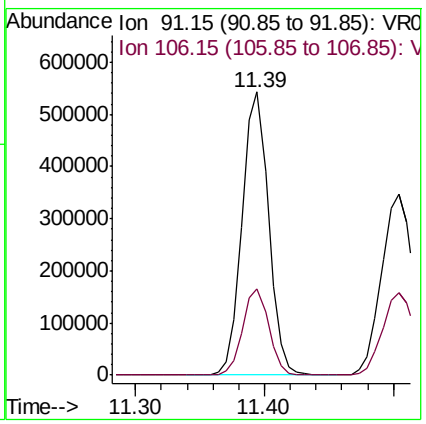


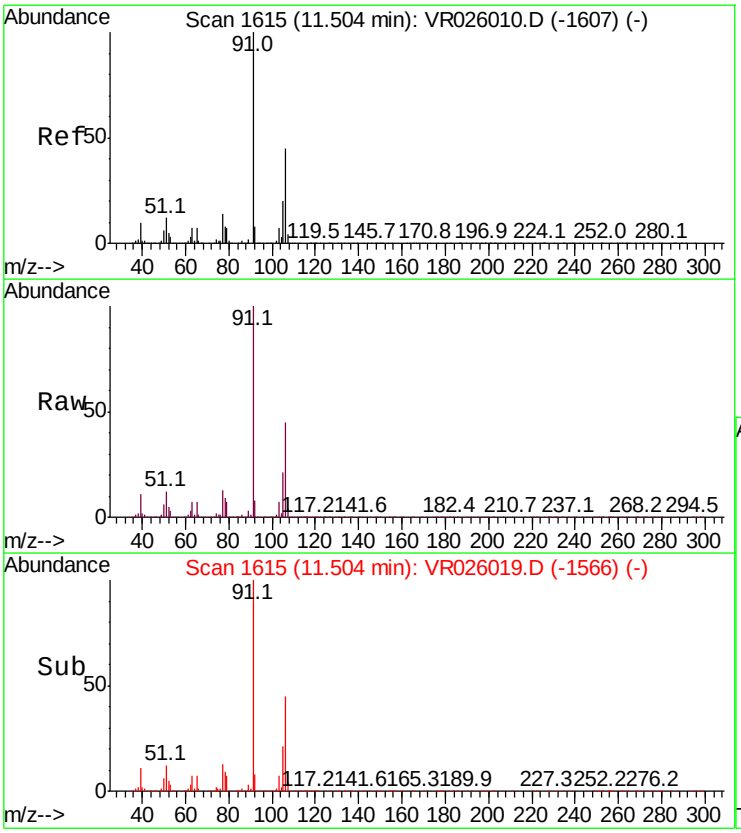

#52
Ethylbenzene
Concen: 4.833 ug/L
RT: 11.39 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 91 Resp: 767122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 20.6 | 38.4 |

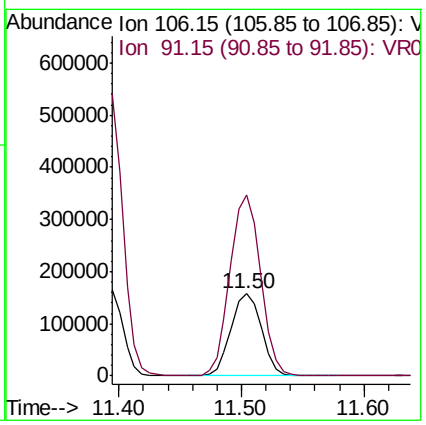


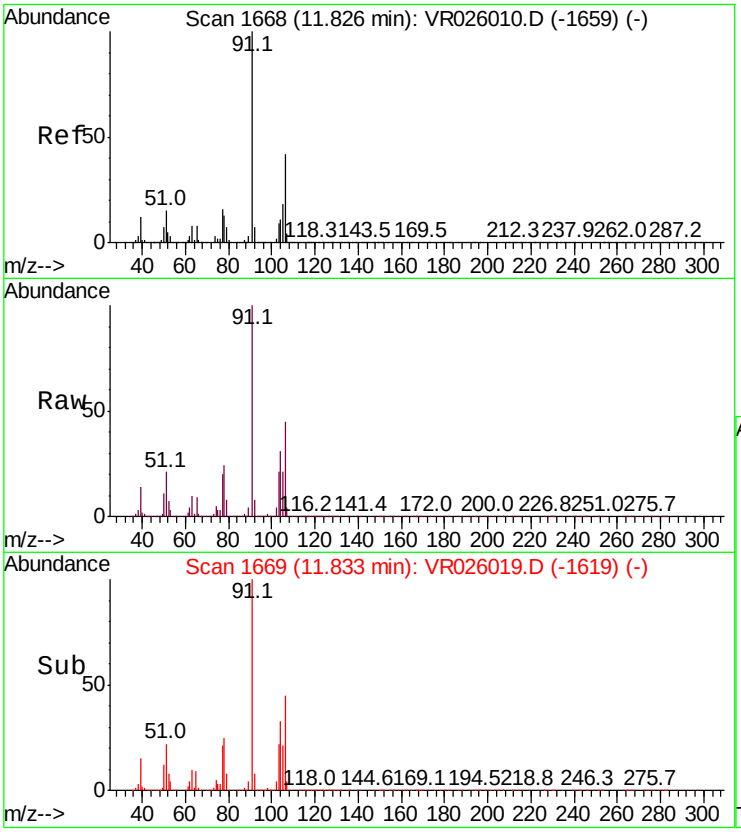




#53
m,p-Xylene
Concen: 4.844 ug/L
RT: 11.50 min Scan# 1615
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:106 Resp: 273742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.0 | 159.7 | 296.5 |



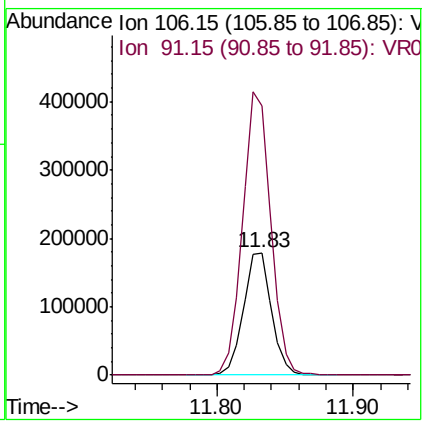


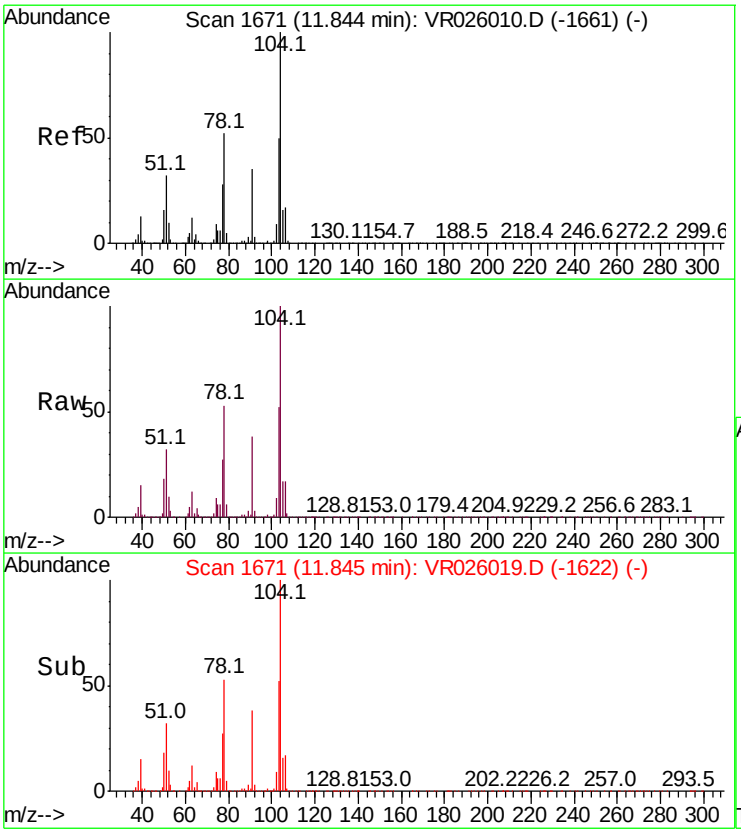

#54
o-Xylene
Concen: 4.884 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. 0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:106 Resp: 256913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.6 | 164.5 | 305.5 |

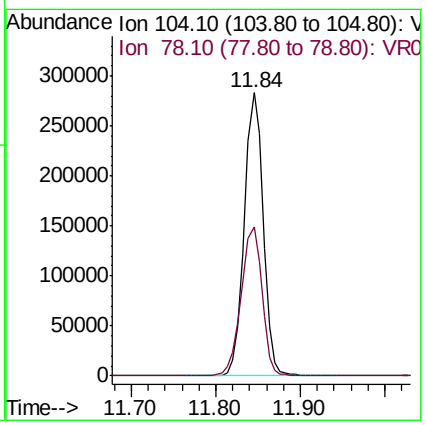


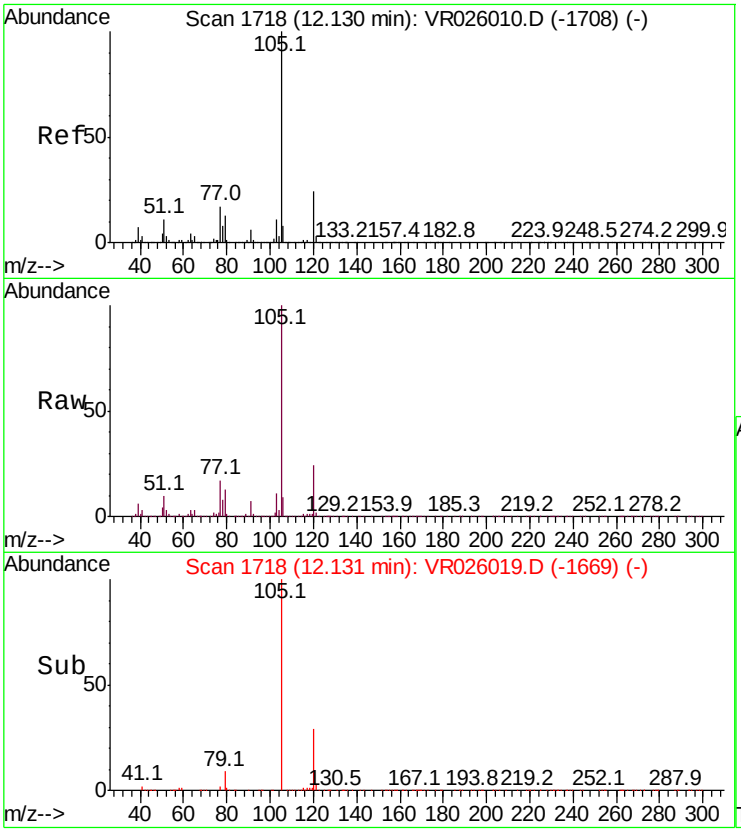




#55
Styrene
Concen: 5.158 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:104 Resp: 422304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 39.3 | 72.9 |



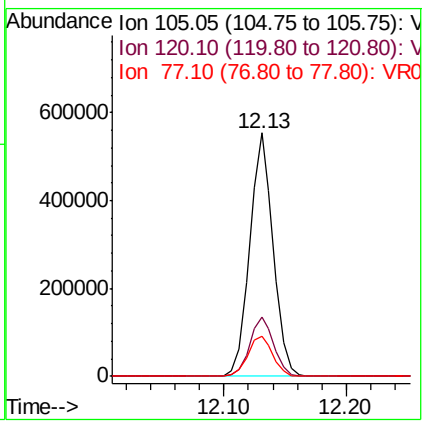


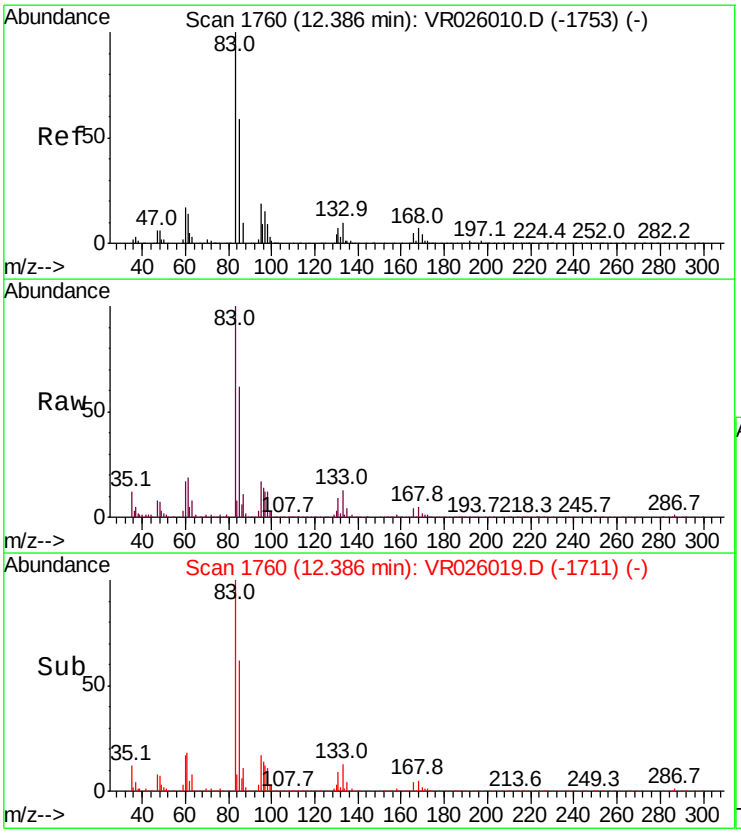

#56
Isopropylbenzene
Concen: 5.081 ug/L
RT: 12.13 min Scan# 1718
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:105 Resp: 737101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.1 | 19.8 | 29.8 |
| 77 | 17.5 | 15.5 | 23.3 |

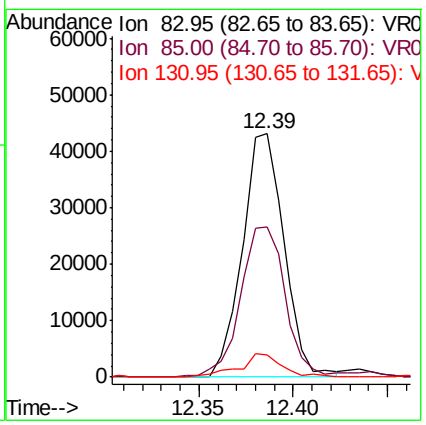


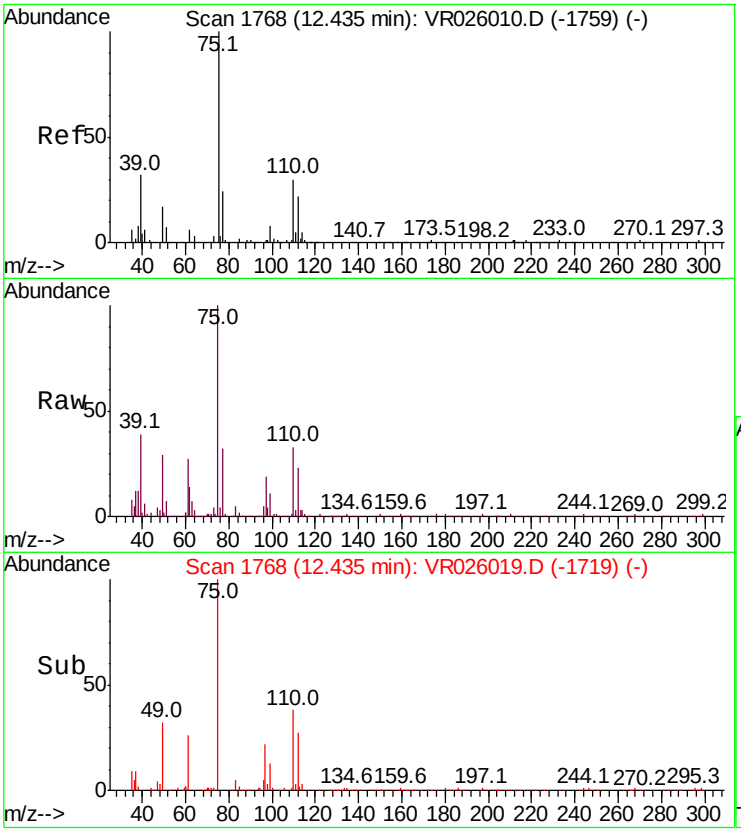




#58
1,1,2,2-Tetrachloroethane
Concen: 5.270 ug/L
RT: 12.39 min Scan# 1760
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 83 Resp: 65945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.7 | 45.8 | 85.0 |
| 131 | 9.0 | 6.6 | 9.8 |



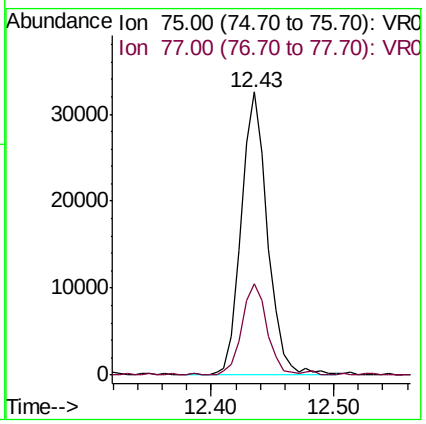


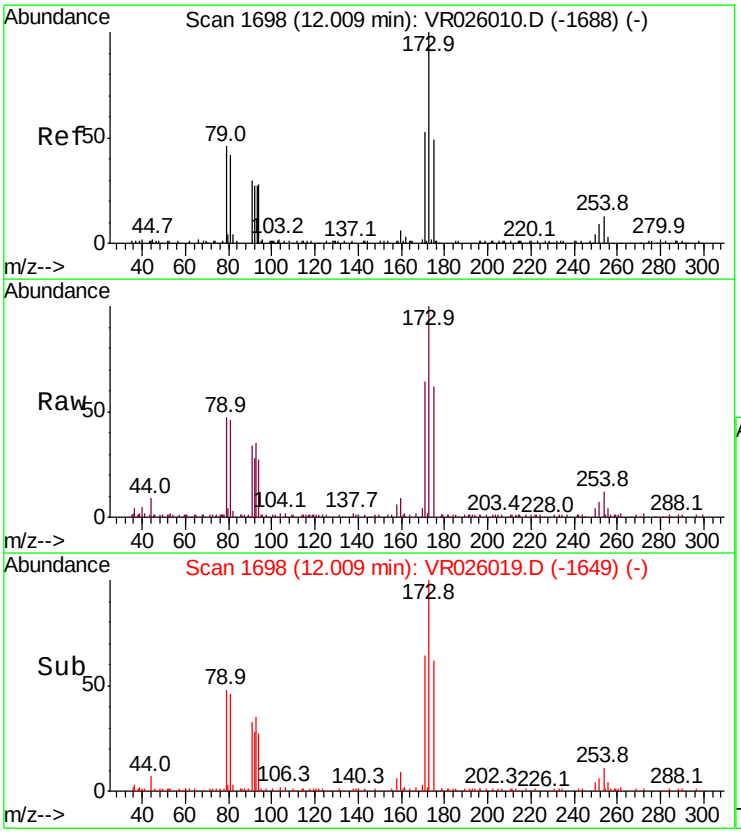

#59
1,2,3-Trichloropropane
Concen: 5.191 ug/L
RT: 12.43 min Scan# 1768
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion: 75 Resp: 48343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 25.8 | 38.6 |

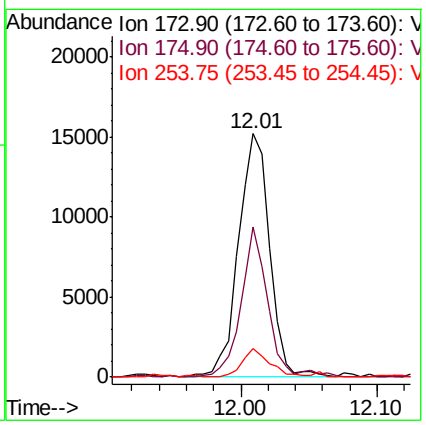


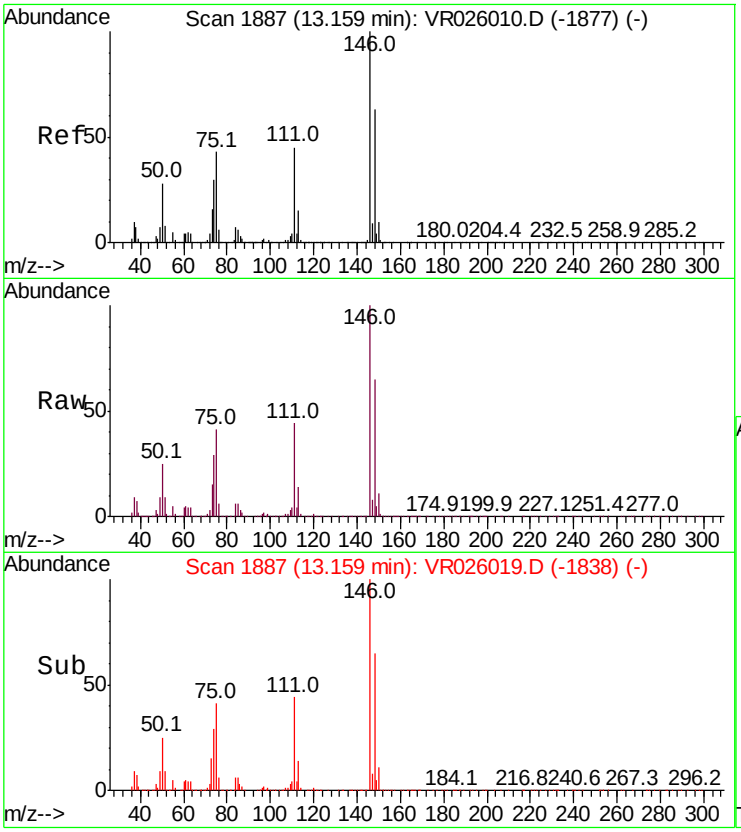




#61
Bromoform
Concen: 4.921 ug/L
RT: 12.01 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:173 Resp: 24268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.6 | 36.9 | 55.3 |
| 254 | 10.5 | 6.6 | 10.0# |



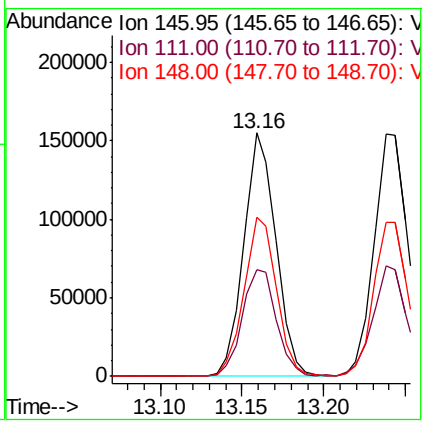


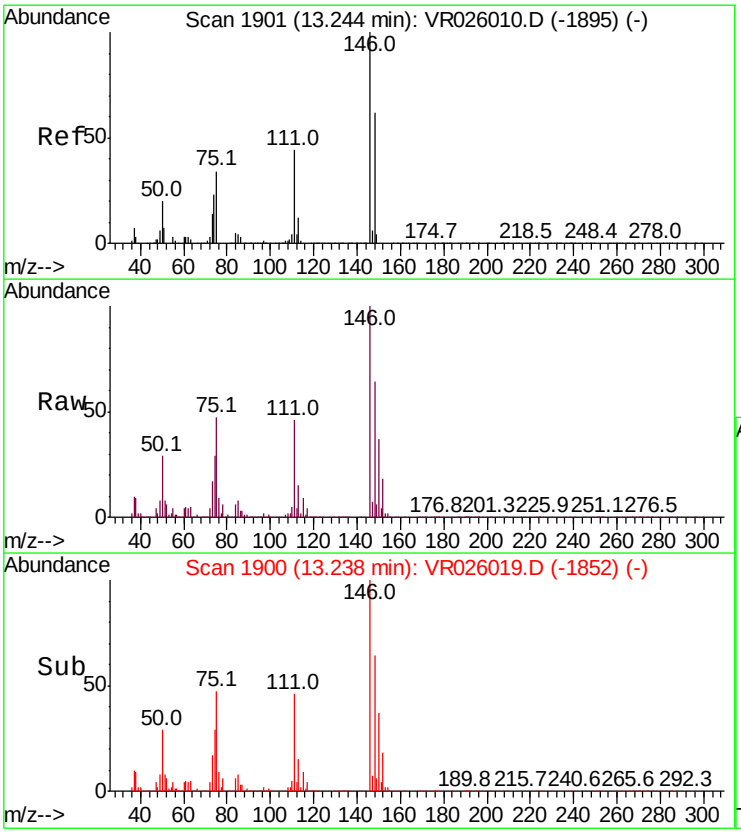

#62
1,3-Dichlorobenzene
Concen: 4.469 ug/L
RT: 13.16 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:146 Resp: 213046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 36.6 | 68.0 |
| 148 | 65.1 | 41.9 | 77.7 |

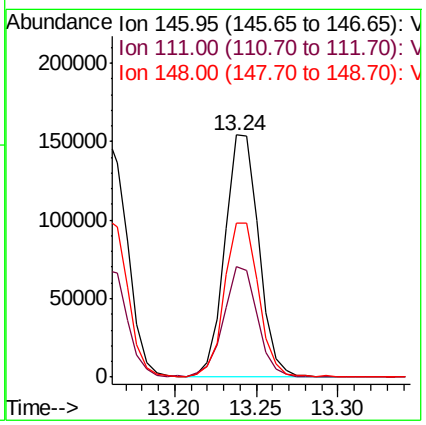


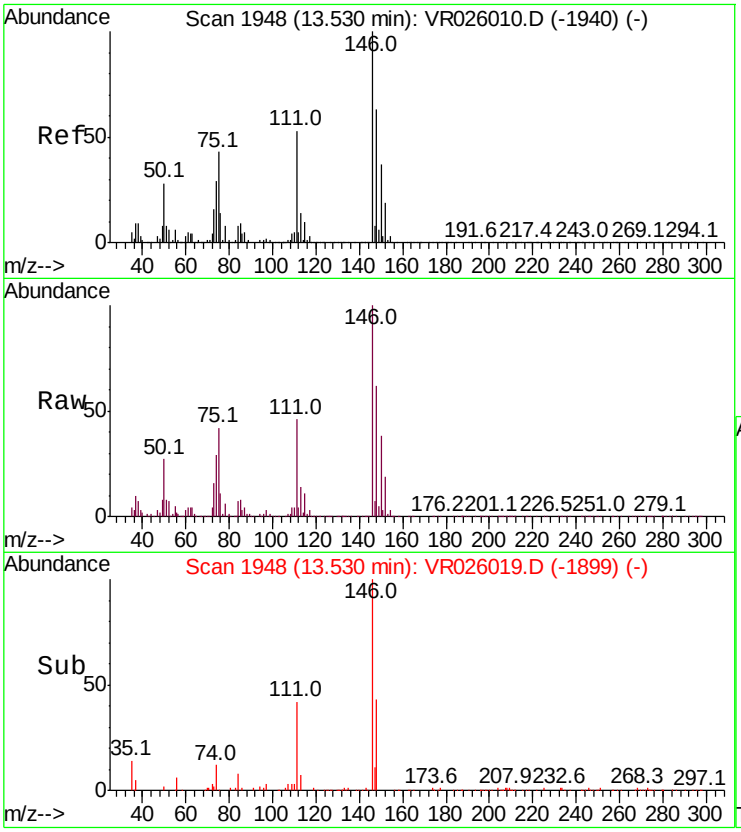




#63
1,4-Dichlorobenzene
Concen: 4.564 ug/L
RT: 13.24 min Scan# 1900
Delta R.T. -0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:146 Resp: 222579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.9 | 32.9 | 61.1 |
| 148 | 63.7 | 45.5 | 84.5 |



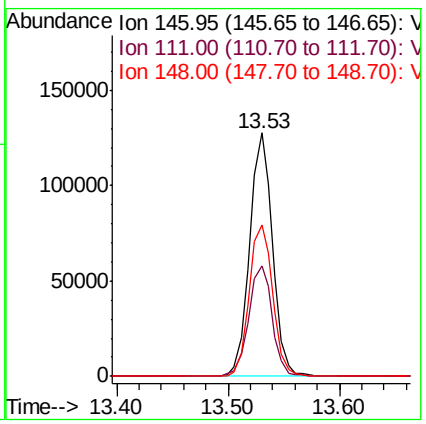


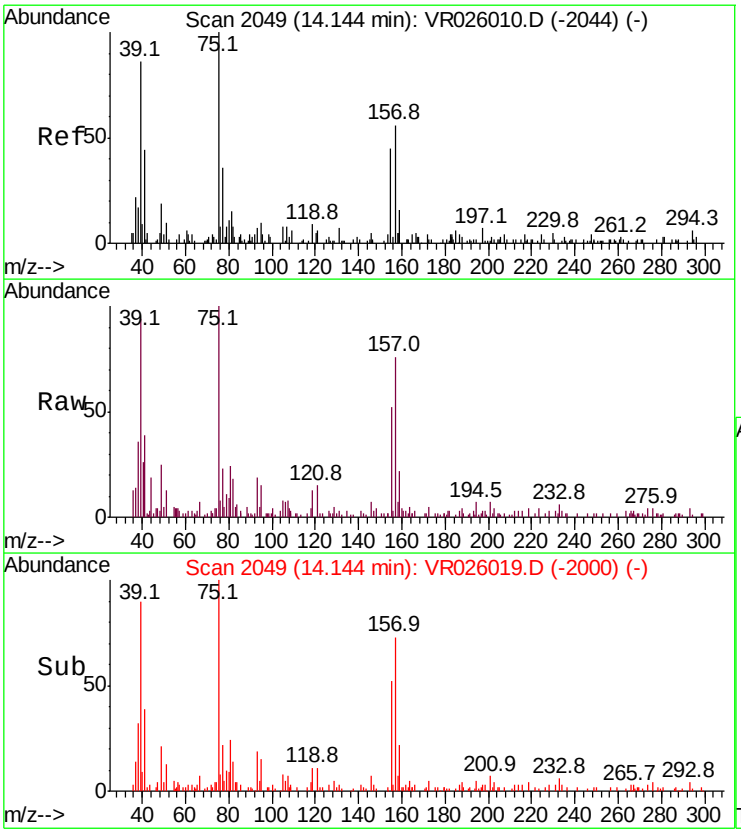

#65
1,2-Dichlorobenzene
Concen: 4.739 ug/L
RT: 13.53 min Scan# 1948
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:146 Resp: 181526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.5 | 39.4 | 59.0 |
| 148 | 62.1 | 53.5 | 80.3 |

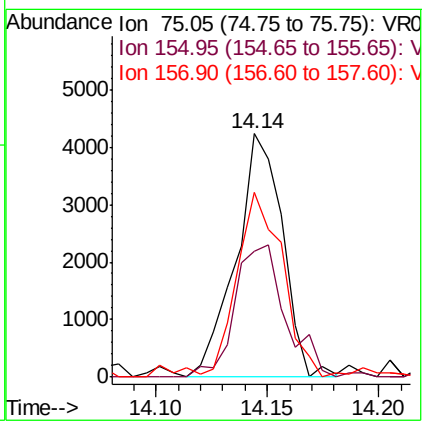


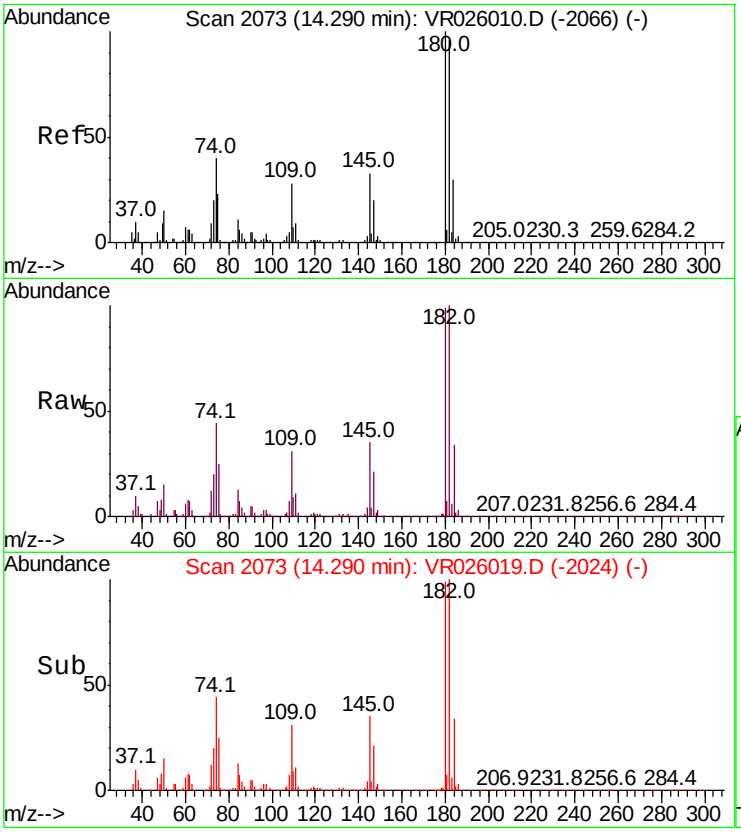




#66
1,2-Dibromo-3-chloropropane
Concen: 3.813 ug/L
RT: 14.14 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion: 75 Resp: 6141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 51.7 | 37.8 | 56.6 |
| 157 | 76.0 | 49.7 | 74.5# |



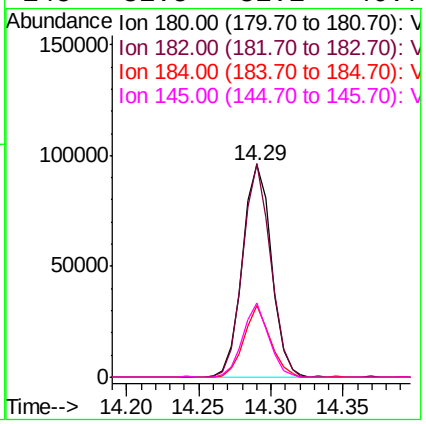


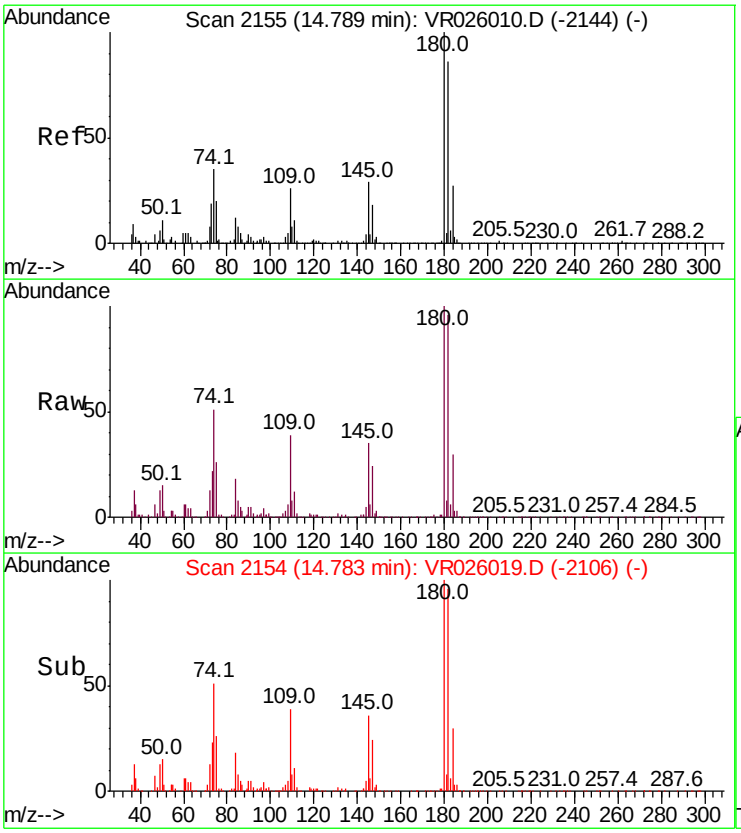

#67
1,3,5-Trichlorobenzene
Concen: 4.676 ug/L
RT: 14.29 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:180 Resp: 132809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 77.2 | 115.8 |
| 184 | 30.5 | 24.5 | 36.7 |
| 145 | 31.5 | 31.1 | 46.7 |

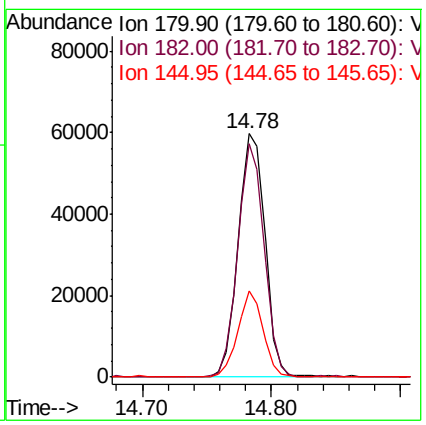


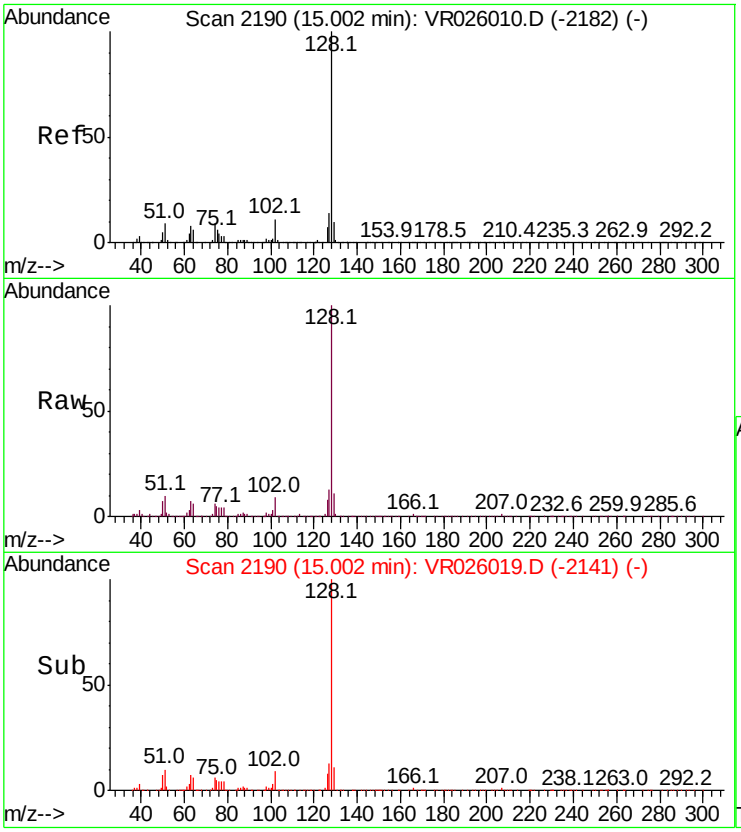




#68
1,2,4-trichlorobenzene
Concen: 4.749 ug/L
RT: 14.78 min Scan# 2154
Delta R.T. -0.01 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:180 Resp: 85978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 75.2 | 112.8 |
| 145 | 32.6 | 30.5 | 45.7 |



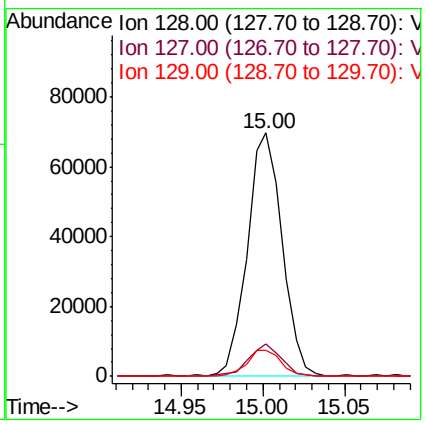


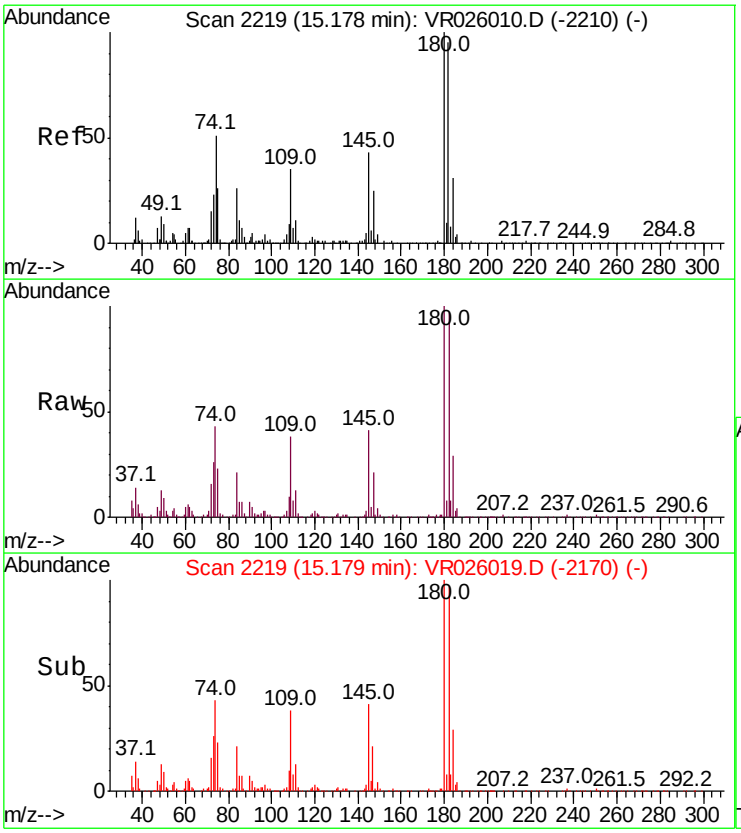

#69
Naphthalene
Concen: 4.451 ug/L
RT: 15.00 min Scan# 2190
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

**Instrument :**
MSVOA_R
**ClientSampleId :**

Tgt Ion:128 Resp: 102826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.5 | 15.7 |
| 129 | 11.1 | 9.4 | 14.2 |




#70
1,2,3-Trichlorobenzene
Concen: 5.010 ug/L
RT: 15.18 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VR026019.D
Acq: 9 Oct 2018 18:06

Tgt Ion:180 Resp: 62927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 74.7 | 112.1 |
| 145 | 36.9 | 31.3 | 46.9 |