Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121020\
Data File : VU041551.D
Acq On : 10 Dec 2020 21:18
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Quant Time: Dec 11 06:10:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 11 06:06:19 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 6.26 | 114 | 46181 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.42 | 117 | 45565 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152 | 27133 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.60 | 65 | 11042 | 4.66 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 93.20% | | | |
| 7) Chloroethane-d5 | 1.92 | 69 | 10546 | 5.07 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 101.40% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.58 | 63 | 27887 | 4.85 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 97.00% | | | |
| 20) 2-Butanone-d5 | 4.66 | 46 | 32309 | 36.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 72.64% | | | |
| 24) Chloroform-d | 5.08 | 84 | 33501 | 5.11 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 102.20% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.72 | 65 | 20611 | 4.68 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 93.60% | | | |
| 32) Benzene-d6 | 5.74 | 84 | 49834 | 4.91 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 98.20% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.70 | 67 | 12699 | 4.28 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 85.60% | | | |
| 41) Toluene-d8 | 7.91 | 98 | 52141 | 5.24 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 104.80% | | | |
| 43) trans-1,3-Dichloropropene- | 8.19 | 79 | 8213 | 4.67 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 93.40% | | | |
| 46) 2-Hexanone-d5 | 8.64 | 63 | 25426 | 34.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 69.48% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75 | 84 | 13207 | 4.04 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 80.80% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 12.19 | 152 | 24204 | 5.22 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 104.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.39 | 85 | 18801 | 4.598 | ug/L | 99 |
| 3) Chloromethane | 1.53 | 50 | 10564 | 3.997 | ug/L | 95 |
| 5) Vinyl chloride | 1.61 | 62 | 13647 | 4.331 | ug/L | 97 |
| 6) Bromomethane | 1.87 | 94 | 11169 | 5.127 | ug/L | 92 |
| 8) Chloroethane | 1.94 | 64 | 9011 | 4.396 | ug/L | 90 |
| 9) Trichlorofluoromethane | 2.15 | 101 | 36014 | 5.130 | ug/L | 98 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 15836 | 5.033 | ug/L | 90 |
| 12) 1,1-Dichloroethene | 2.59 | 96 | 13349 | 4.938 | ug/L | 98 |
| 13) Acetone | 2.66 | 43 | 26029 | 37.589 | ug/L | 98 |
| 14) Carbon disulfide | 2.81 | 76 | 37058 | 4.447 | ug/L | 97 |
| 15) Methyl Acetate | 2.97 | 43 | 4845 | 3.824 | ug/L | 96 |
| 16) Methylene chloride | 3.06 | 84 | 15369 | 4.259 | ug/L | 85 |
| 17) Methyl tert-butyl Ether | 3.38 | 73 | 36624 | 4.465 | ug/L | 96 |
| 18) trans-1,2-Dichloroethene | 3.37 | 96 | 13758 | 5.039 | ug/L | 87 |
| 19) 1,1-Dichloroethane | 3.89 | 63 | 23196 | 4.598 | ug/L | 94 |
| 21) 2-Butanone | 4.74 | 43 | 32905 | 37.976 | ug/L | 99 |
| 22) cis-1,2-Dichloroethene | 4.69 | 96 | 14758 | 4.874 | ug/L | 91 |

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121020\
Data File : VU041551.D
Acq On : 10 Dec 2020 21:18
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Quant Time: Dec 11 06:10:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 11 06:06:19 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 23) Bromochloromethane | 4.99 | 128 | 8049 | 5.086 ug/L | 91 |
| 25) Chloroform | 5.11 | 83 | 31557 | 4.910 ug/L | 99 |
| 27) 1,2-Dichloroethane | 5.81 | 62 | 23392 | 4.657 ug/L | 98 |
| 29) 1,1,1-Trichloroethane | 5.33 | 97 | 32071 | 4.912 ug/L | 96 |
| 30) Cyclohexane | 5.41 | 56 | 16519 | 4.023 ug/L | 88 |
| 31) Carbon tetrachloride | 5.54 | 117 | 30463 | 5.038 ug/L | 98 |
| 33) Benzene | 5.79 | 78 | 51419 | 4.559 ug/L | 100 |
| 34) Trichloroethene | 6.55 | 95 | 16630 | 4.886 ug/L | 93 |
| 35) Methylcyclohexane | 6.77 | 83 | 21652 | 4.663 ug/L | 94 |
| 37) 1,2-Dichloropropane | 6.80 | 63 | 11620 | 4.397 ug/L | 100 |
| 38) Bromodichloromethane | 7.11 | 83 | 23374 | 4.841 ug/L | 98 |
| 39) cis-1,3-Dichloropropene | 7.61 | 75 | 20843 | 4.366 ug/L | 97 |
| 40) 4-Methyl-2-pentanone | 7.80 | 43 | 76544 | 36.148 ug/L # | 94 |
| 42) Toluene | 7.98 | 91 | 61534 | 4.848 ug/L | 99 |
| 44) trans-1,3-Dichloropropene | 8.22 | 75 | 21652 | 4.541 ug/L | 93 |
| 45) 1,1,2-Trichloroethane | 8.40 | 97 | 11491 | 4.508 ug/L | 94 |
| 47) Tetrachloroethene | 8.56 | 164 | 15204 | 5.655 ug/L | 98 |
| 48) 2-Hexanone | 8.69 | 43 | 59916 | 35.213 ug/L # | 95 |
| 49) Dibromochloromethane | 8.82 | 129 | 18058 | 5.200 ug/L | 98 |
| 50) 1,2-Dibromoethane | 8.93 | 107 | 12092 | 4.703 ug/L | 95 |
| 51) Chlorobenzene | 9.45 | 112 | 43115 | 5.097 ug/L | 96 |
| 52) Ethylbenzene | 9.57 | 91 | 70039 | 4.815 ug/L | 98 |
| 53) m,p-Xylene | 9.69 | 106 | 26701 | 5.057 ug/L | 98 |
| 54) o-Xylene | 10.10 | 106 | 25244 | 4.931 ug/L | 94 |
| 55) Styrene | 10.11 | 104 | 45713 | 5.258 ug/L | 91 |
| 56) Isopropylbenzene | 10.48 | 105 | 72696 | 5.030 ug/L | 98 |
| 58) 1,1,2,2-Tetrachloroethane | 10.78 | 83 | 13416 | 4.285 ug/L | 97 |
| 59) 1,2,3-Trichloropropane | 10.82 | 75 | 11002 | 4.290 ug/L | 97 |
| 61) Bromoform | 10.29 | 173 | 11977 | 5.253 ug/L | 98 |
| 62) 1,3-Dichlorobenzene | 11.74 | 146 | 39538 | 5.171 ug/L | 96 |
| 63) 1,4-Dichlorobenzene | 11.83 | 146 | 38798 | 4.949 ug/L | 97 |
| 65) 1,2-Dichlorobenzene | 12.21 | 146 | 37801 | 4.993 ug/L | 97 |
| 66) 1,2-Dibromo-3-chloropropan | 12.99 | 75 | 3122 | 4.210 ug/L # | 85 |
| 67) 1,3,5-Trichlorobenzene | 13.21 | 180 | 30671 | 5.020 ug/L | 99 |
| 68) 1,2,4-trichlorobenzene | 13.83 | 180 | 23172 | 4.738 ug/L | 99 |
| 69) Naphthalene | 14.08 | 128 | 31259 | 4.068 ug/L | 99 |
| 70) 1,2,3-Trichlorobenzene | 14.32 | 180 | 22313 | 5.155 ug/L | 96 |

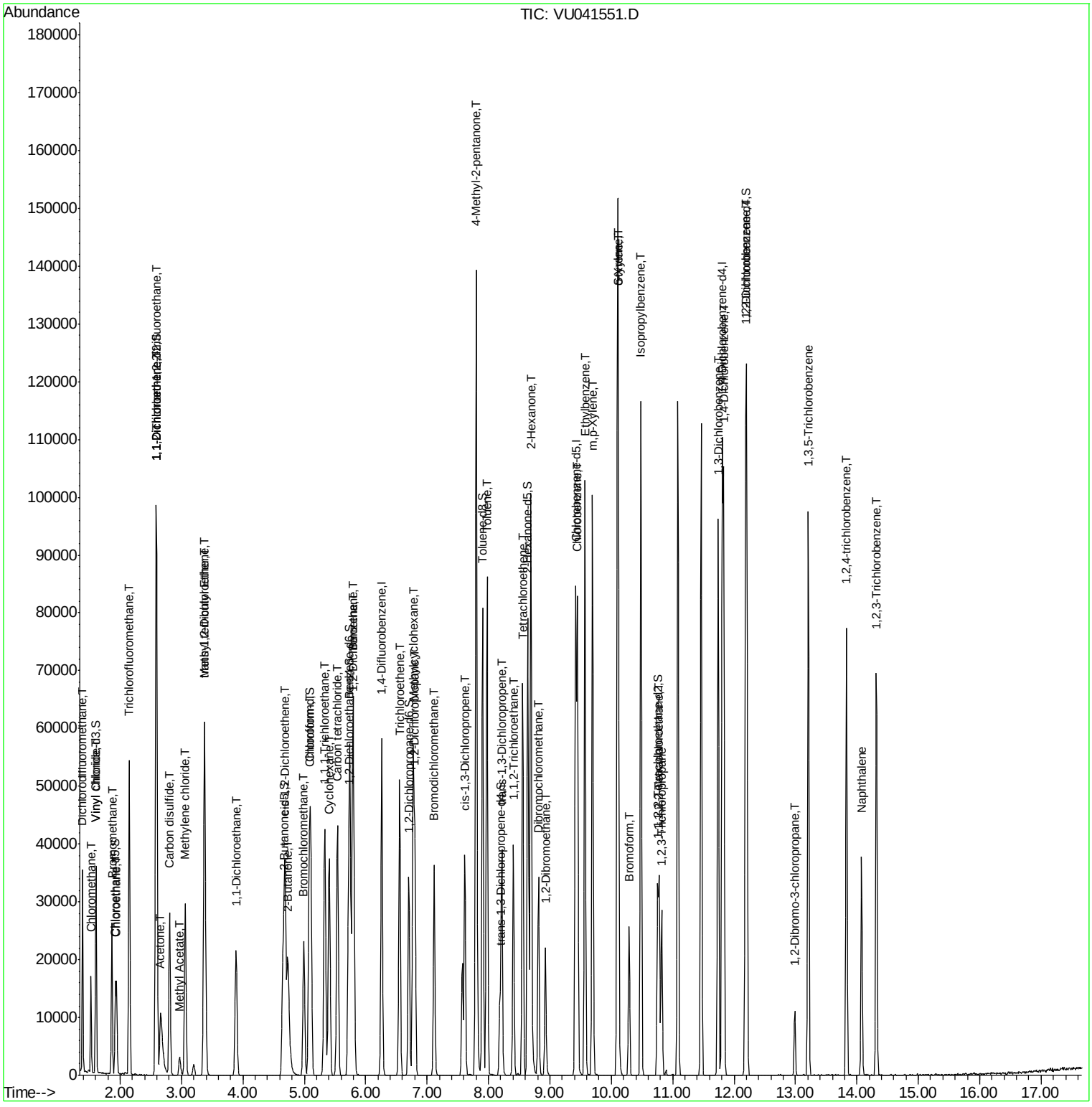
(#) = qualifier out of range (m) = manual integration (+) = signals summed

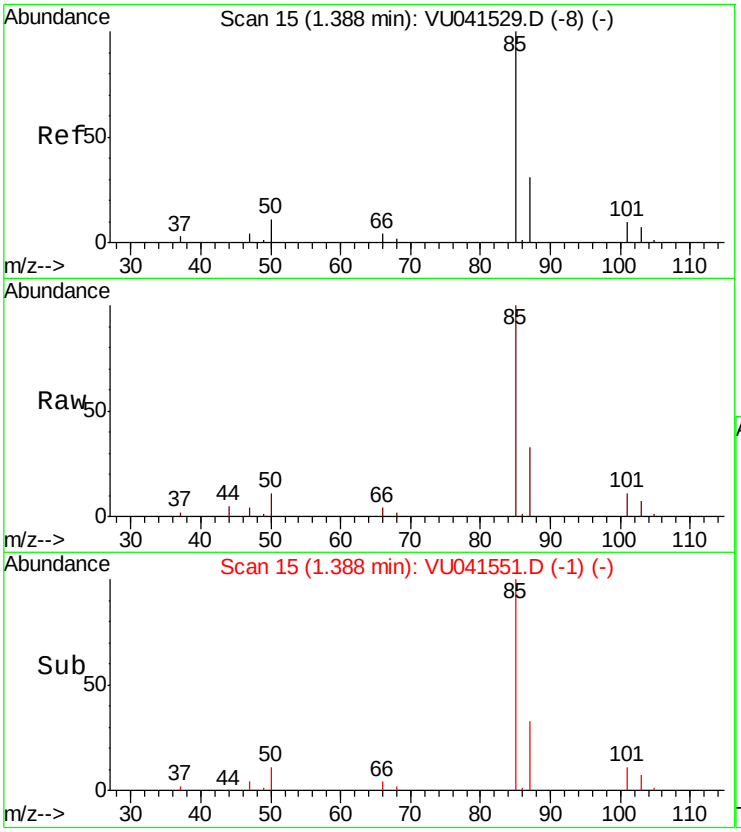
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121020\
Data File : VU041551.D
Acq On : 10 Dec 2020 21:18
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Quant Time: Dec 11 06:10:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 11 06:06:19 2020
Response via : Initial Calibration



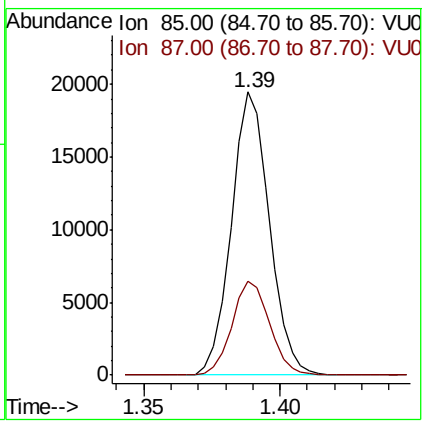


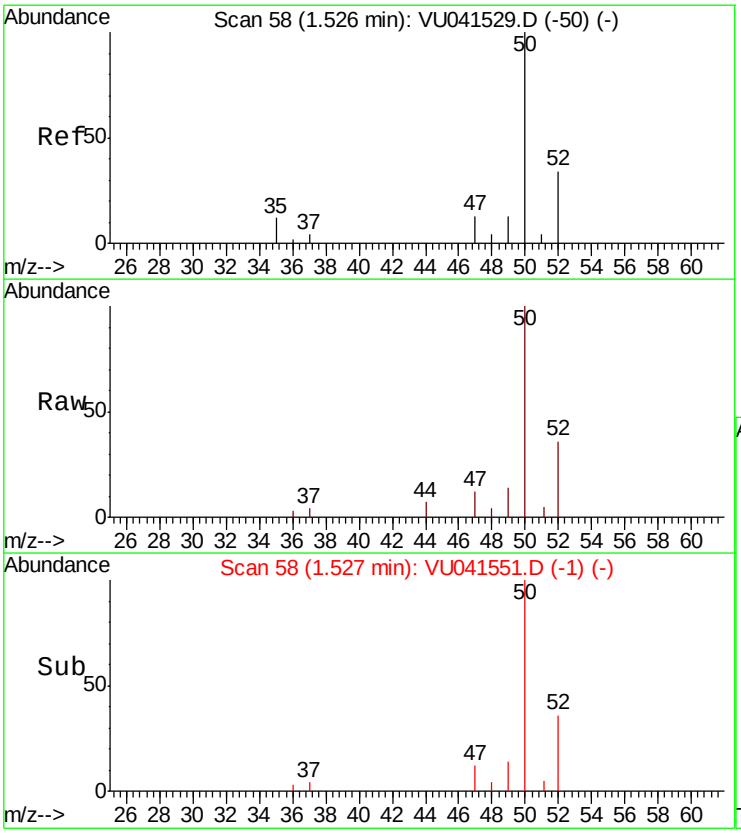

#2
Dichlorodifluoromethane
Concen: 4.598 ug/L
RT: 1.39 min Scan# 15
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 85 Resp: 18801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 26.9 | 40.3 |

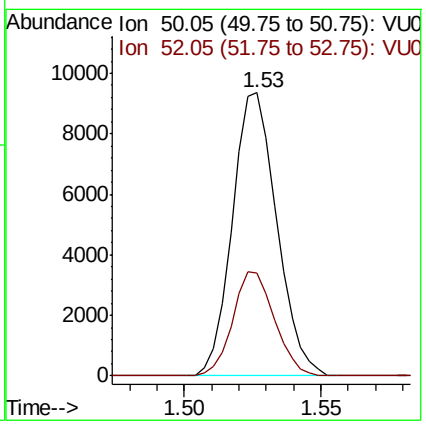


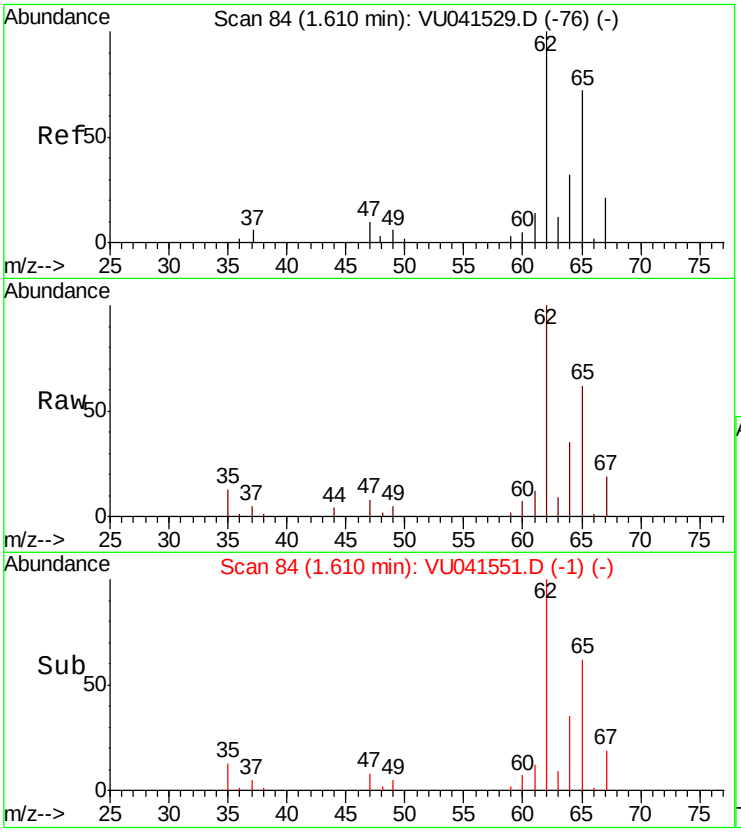




#3
Chloromethane
Concen: 3.997 ug/L
RT: 1.53 min Scan# 58
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 50 Resp: 10564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.2 | 23.3 | 43.3 |



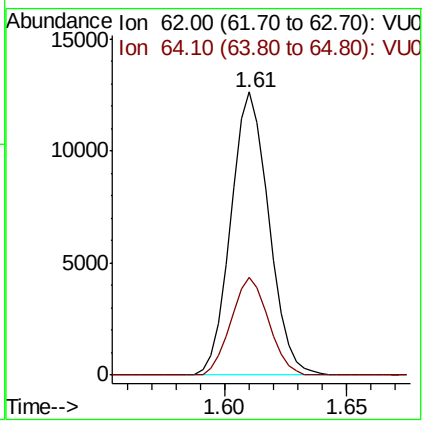


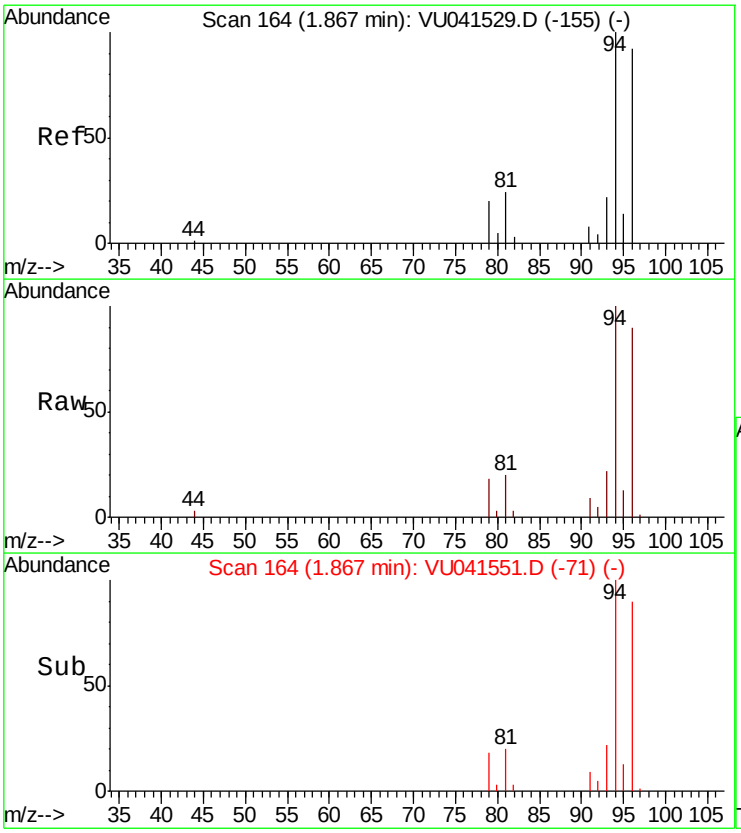

#5
Vinyl chloride
Concen: 4.331 ug/L
RT: 1.61 min Scan# 84
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 62 Resp: 13647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.6 | 23.0 | 42.8 |

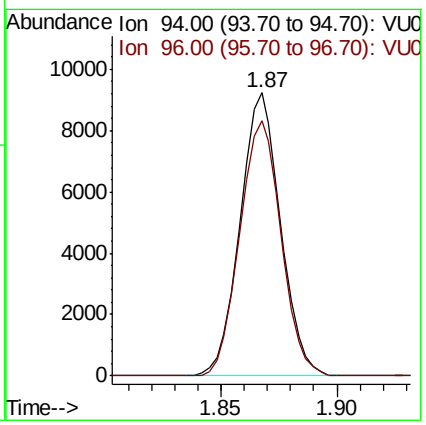


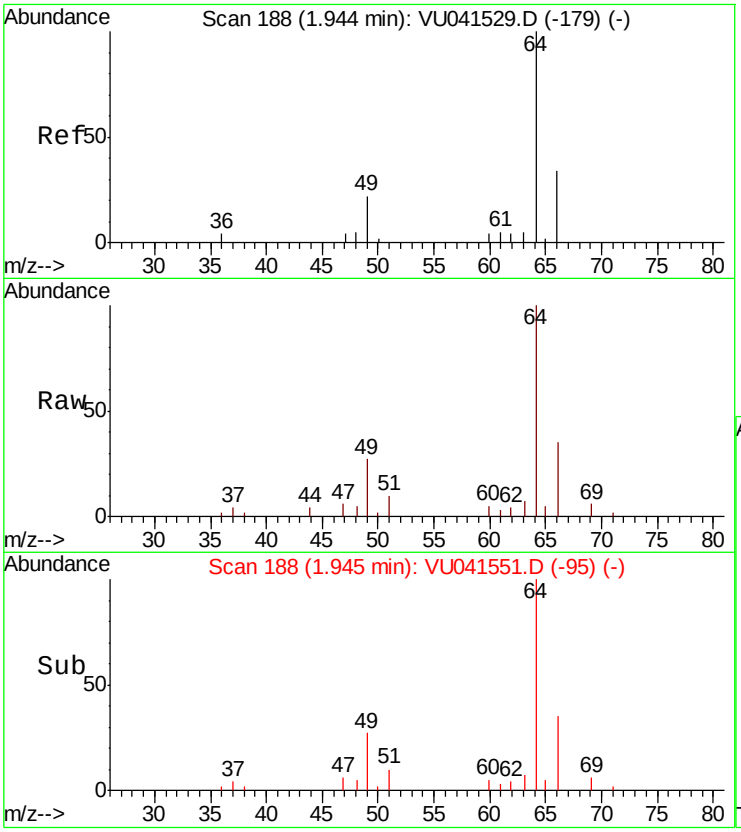




#6
Bromomethane
Concen: 5.127 ug/L
RT: 1.87 min Scan# 164
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 94 Resp: 11169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.0 | 68.5 | 127.1 |



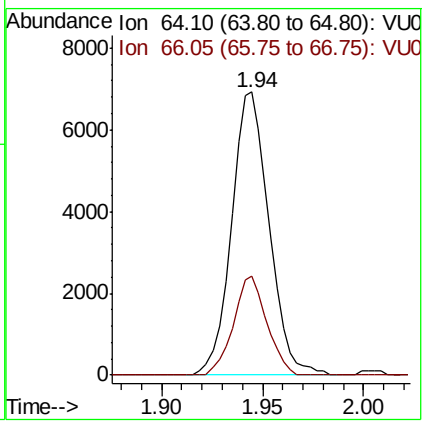


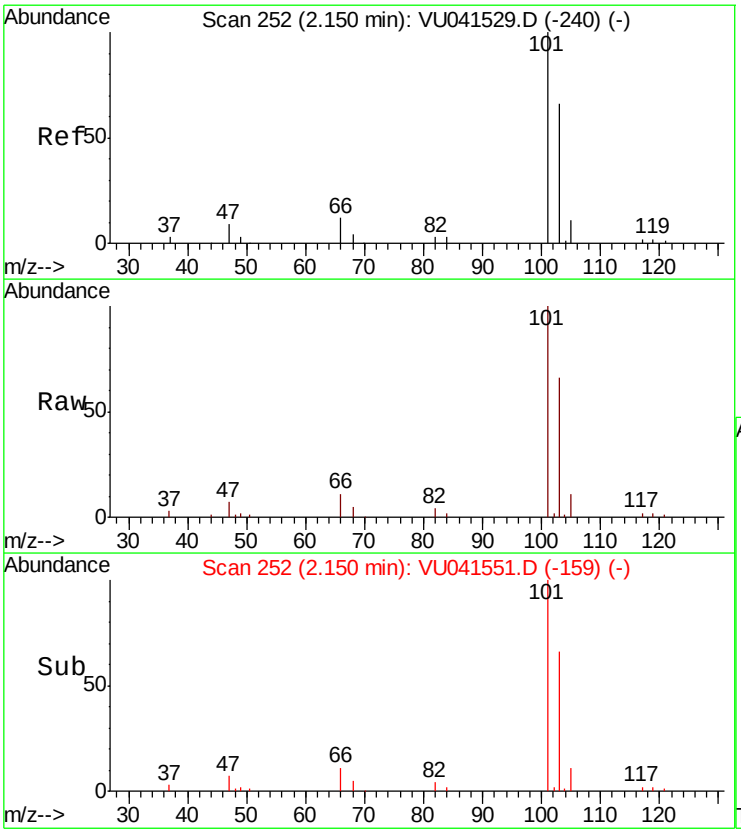

#8
Chloroethane
Concen: 4.396 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 64 Resp: 9011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 35.1 | 20.9 | 38.9 |

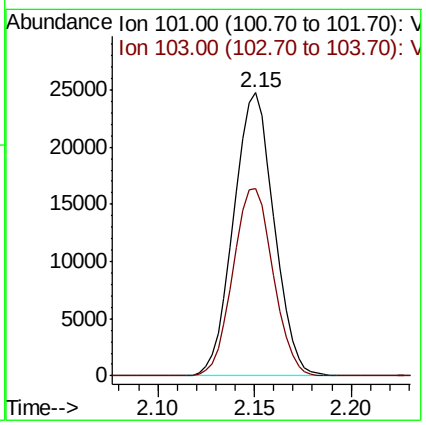


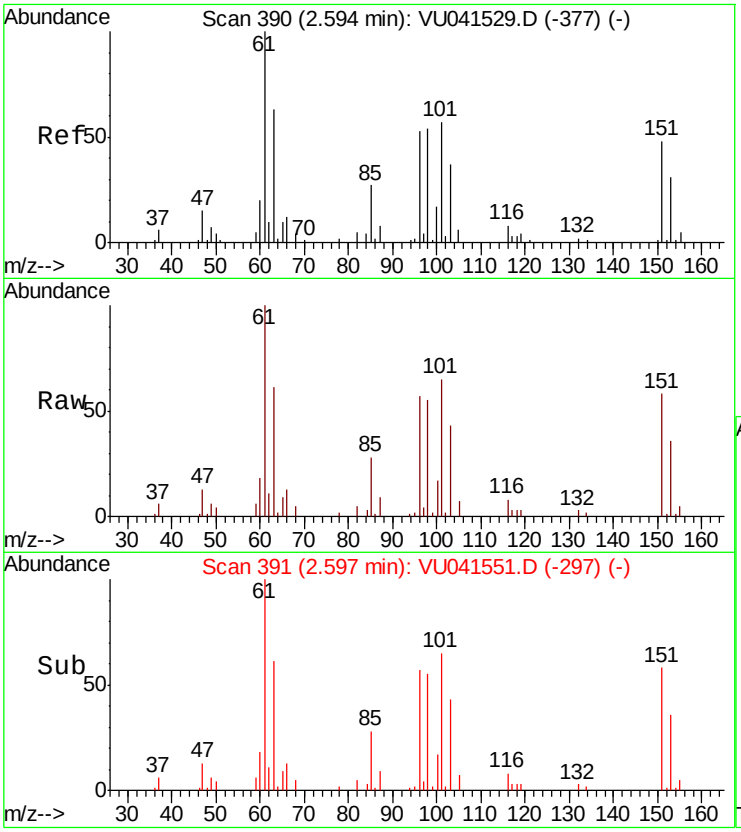




#9
Trichlorofluoromethane
Concen: 5.130 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:101 Resp: 36014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.7 | 51.4 | 77.0 |



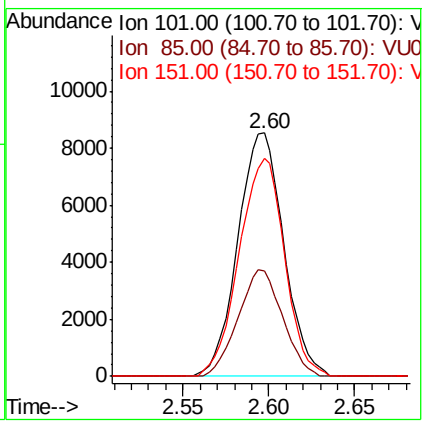


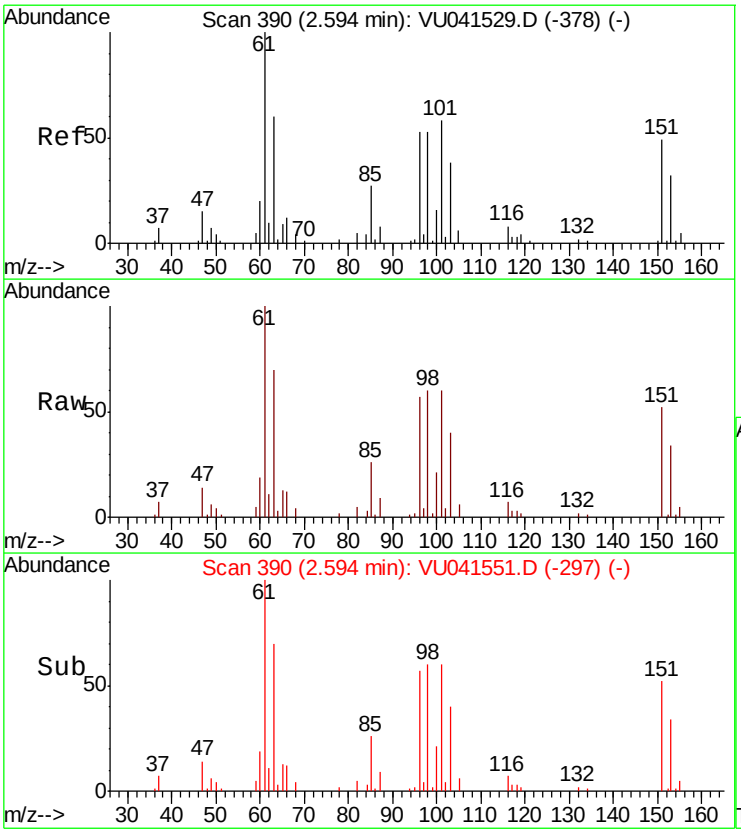

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.033 ug/L
RT: 2.60 min Scan# 391
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:101 Resp: 15836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.3 | 39.4 | 59.2 |
| 151 | 88.4 | 63.8 | 95.8 |

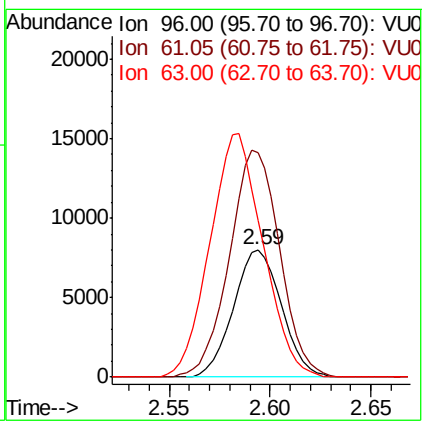


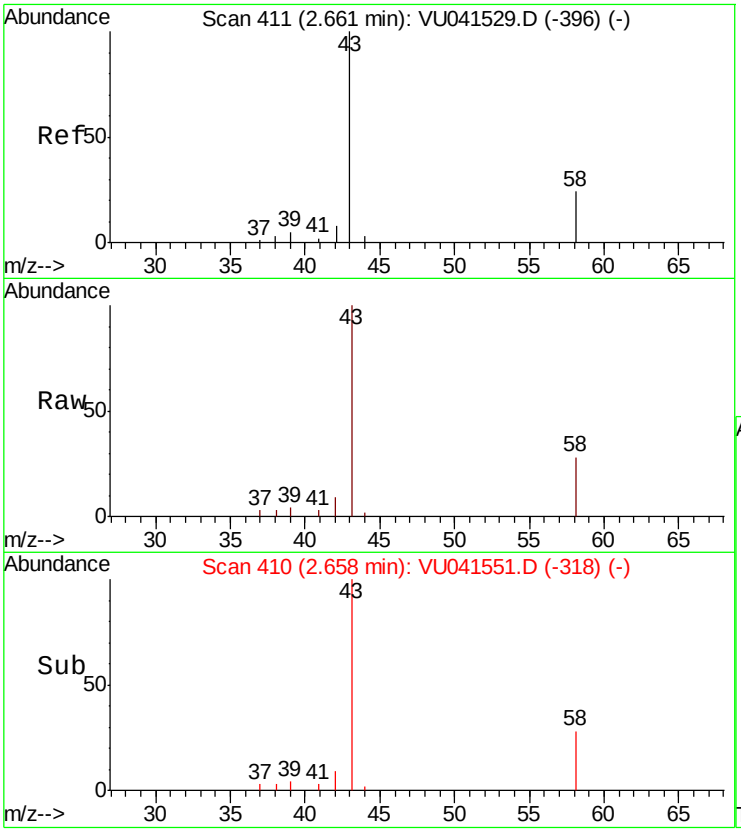




#12
1,1-Dichloroethene
Concen: 4.938 ug/L
RT: 2.59 min Scan# 390
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 96 Resp: 13349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.8 | 127.8 | 237.4 |
| 63 | 123.0 | 86.2 | 160.0 |



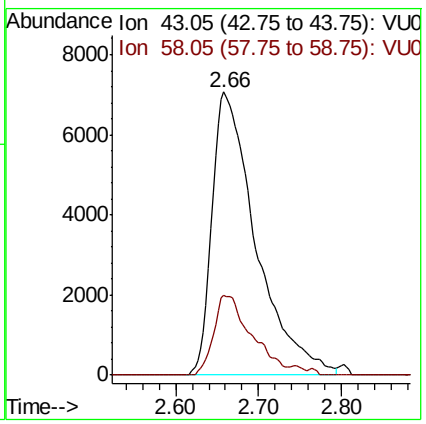


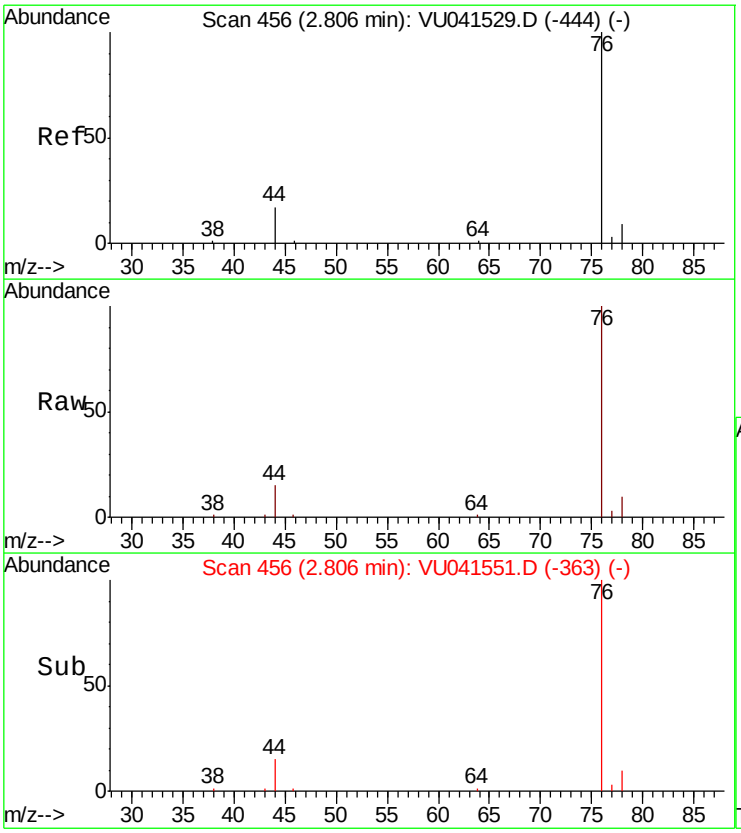

#13
Acetone
Concen: 37.589 ug/L
RT: 2.66 min Scan# 410
Delta R.T. -0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion: 43 Resp: 26029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.2 | 0.0 | 50.0 |

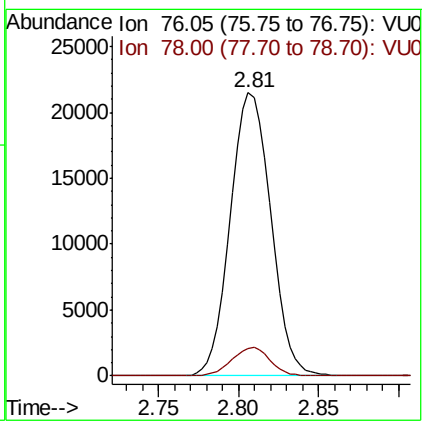


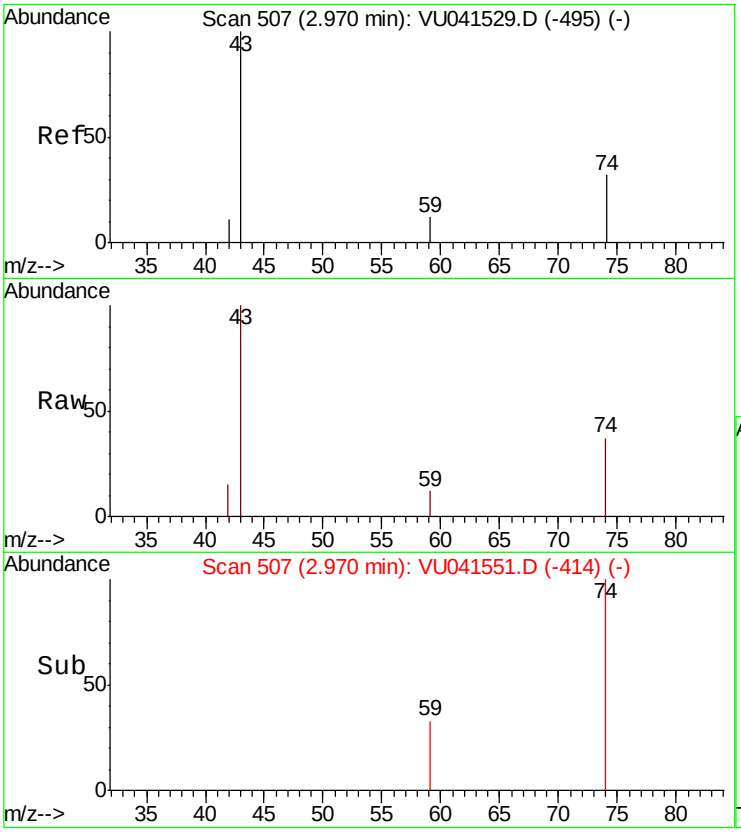




#14
Carbon disulfide
Concen: 4.447 ug/L
RT: 2.81 min Scan# 456
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 76 Resp: 37058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 6.8 | 10.2 |



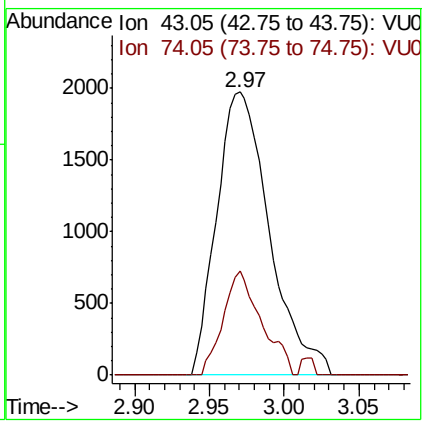


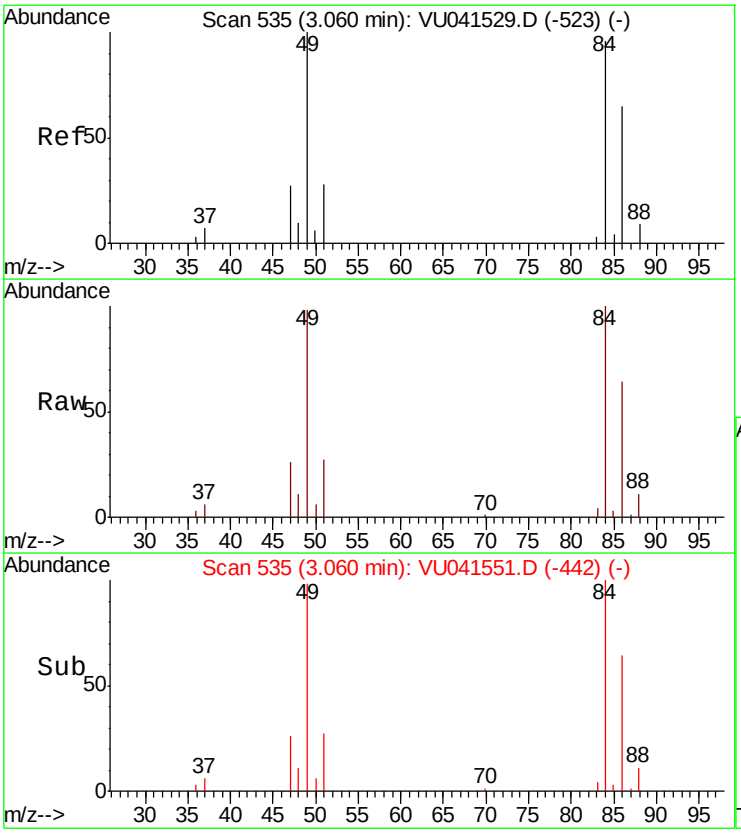

#15
Methyl Acetate
Concen: 3.824 ug/L
RT: 2.97 min Scan# 507
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion: 43 Resp: 4845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.8 | 19.7 | 29.5 |

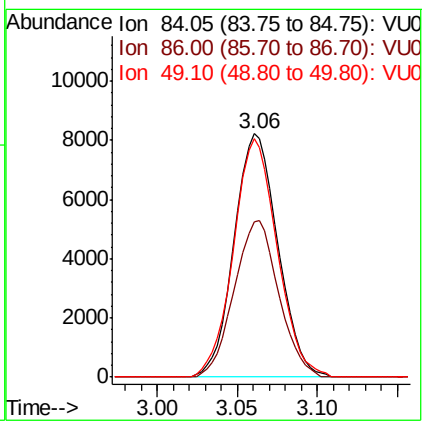


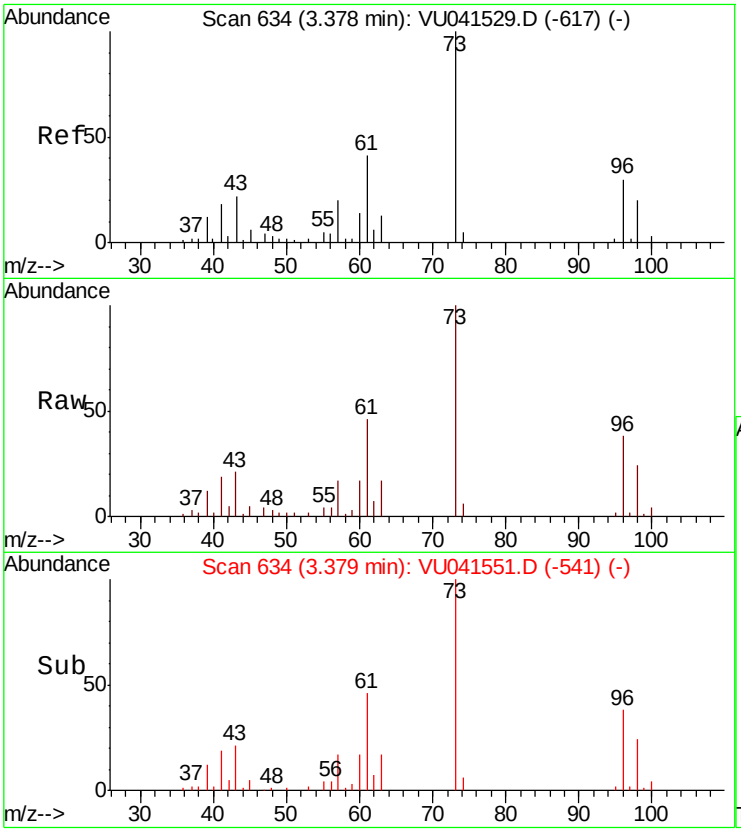




#16
Methylene chloride
Concen: 4.259 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 84 Resp: 15369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 63.7 | 44.1 | 81.9 |
| 49 | 97.8 | 86.1 | 159.9 |



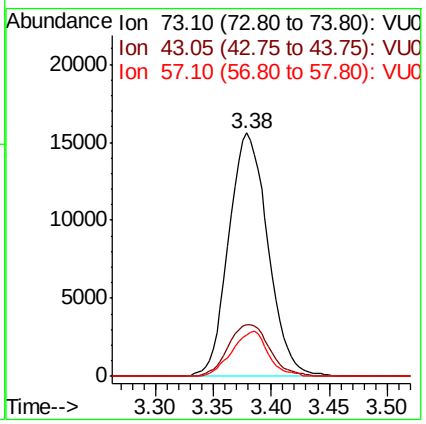


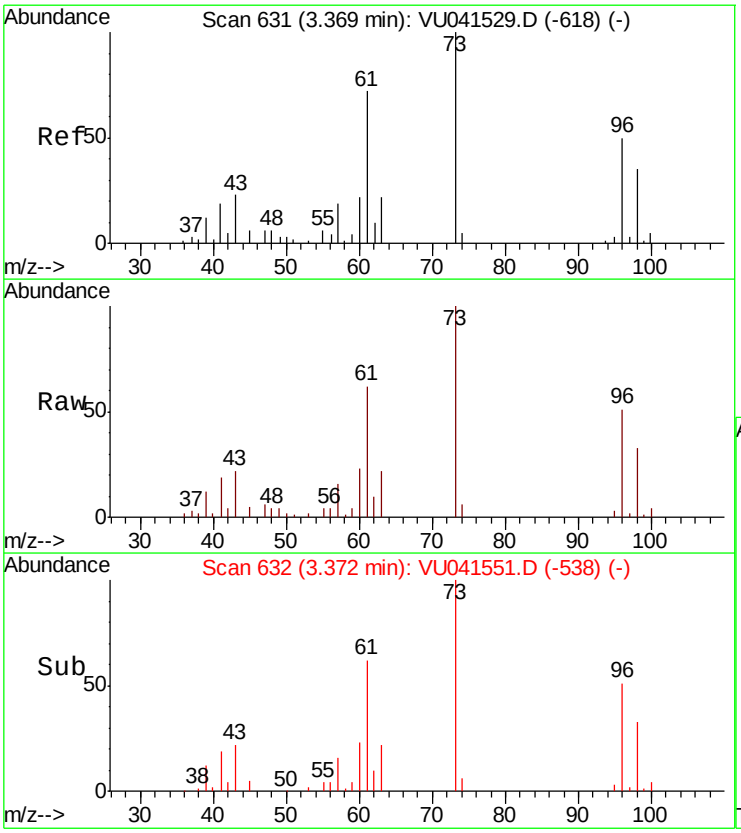

#17
Methyl tert-butyl Ether
Concen: 4.465 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion: 73 Resp: 36624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 22.4 | 19.1 | 28.7 |
| 57 | 17.2 | 15.5 | 23.3 |

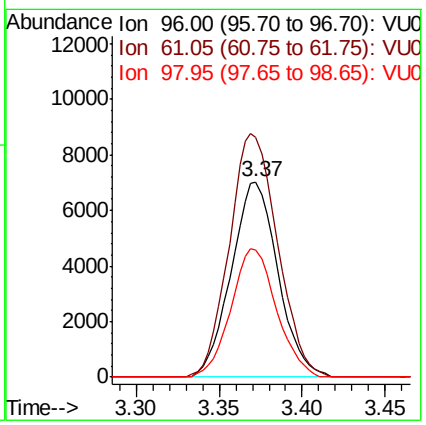


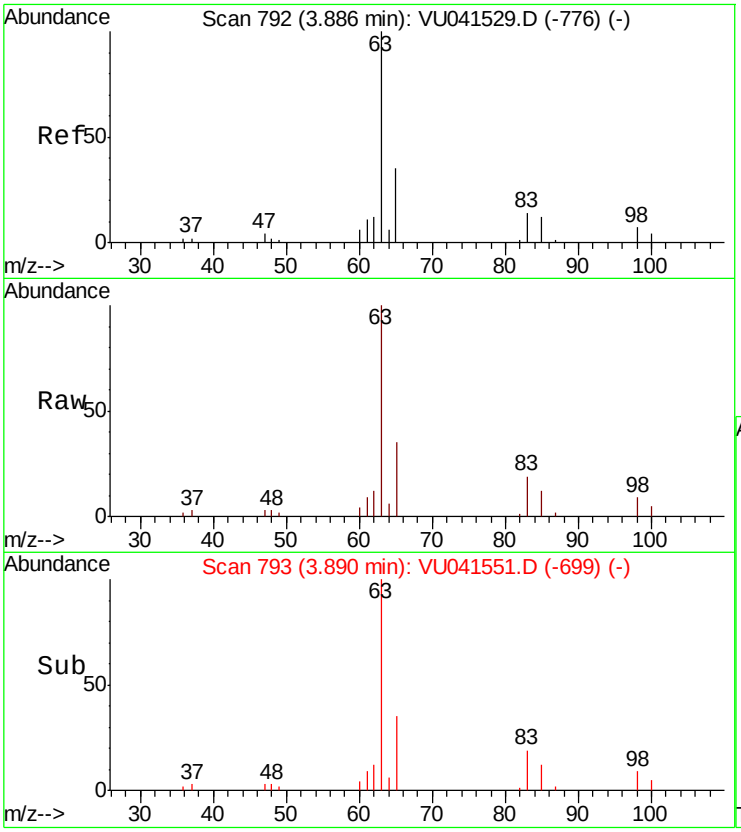




#18
trans-1,2-Dichloroethene
Concen: 5.039 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 96 Resp: 13758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 122.3 | 98.8 | 183.4 |
| 98 | 65.2 | 41.7 | 77.5 |



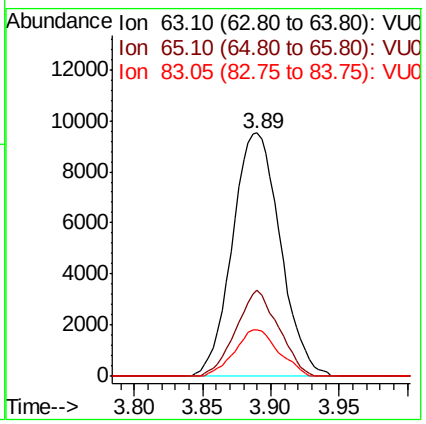


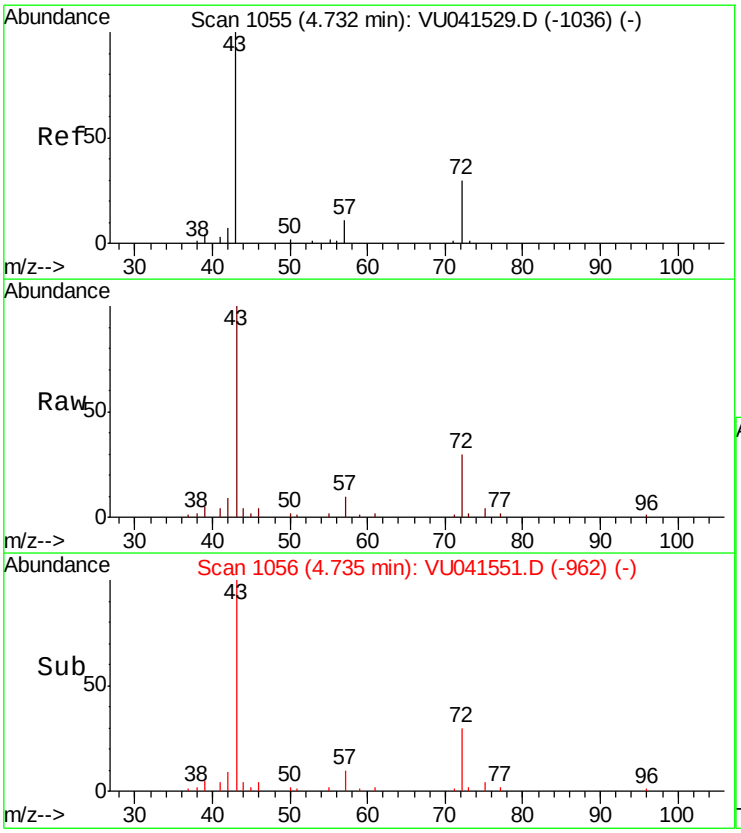

#19
1,1-Dichloroethane
Concen: 4.598 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion: 63 Resp: 23196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 35.3 | 22.3 | 41.5 |
| 83 | 19.0 | 11.1 | 20.7 |

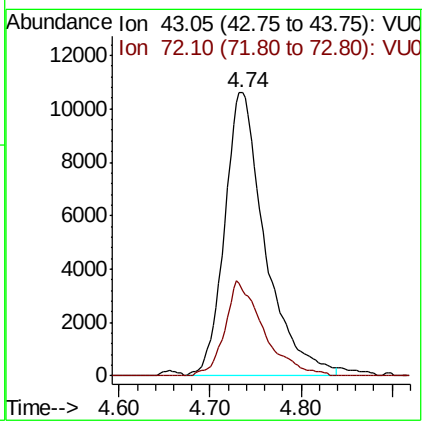


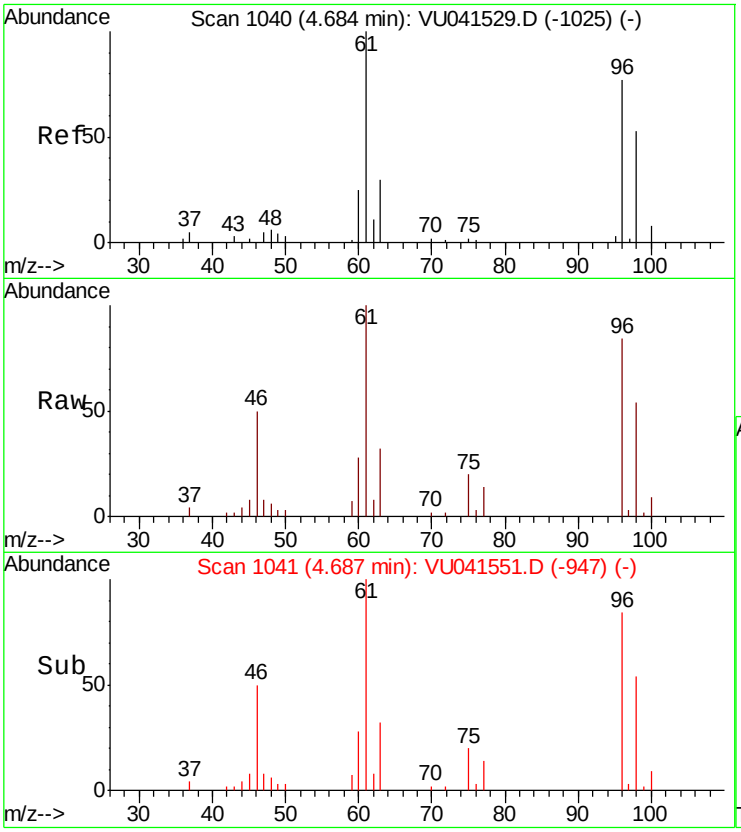




#21
2-Butanone
Concen: 37.976 ug/L
RT: 4.74 min Scan# 1056
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 43 Resp: 32905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.0 | 15.7 | 47.1 |



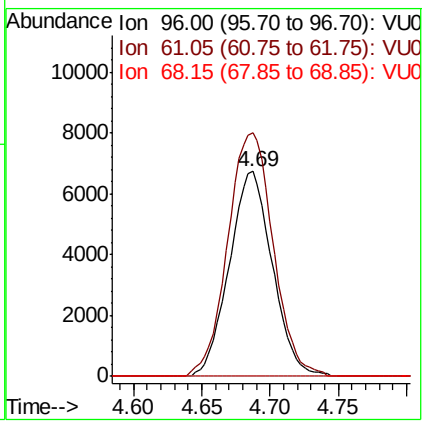


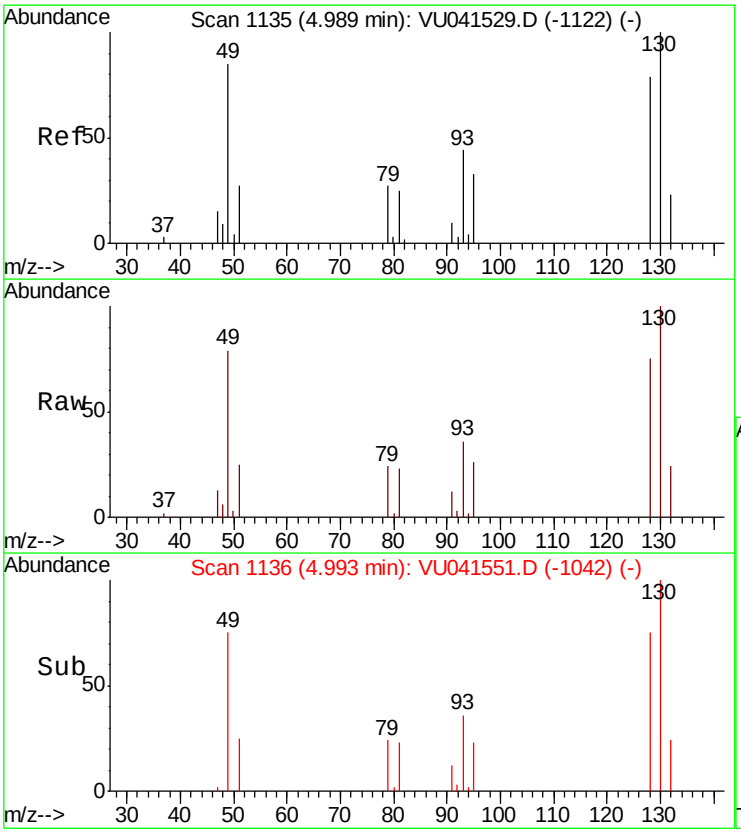

#22
cis-1,2-Dichloroethene
Concen: 4.874 ug/L
RT: 4.69 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 96 Resp: 14758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.9 | 90.5 | 168.1 |
| 68 | 0.0 | 0.0 | 0.0 |

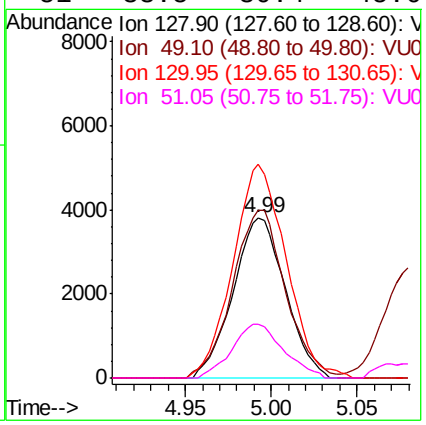


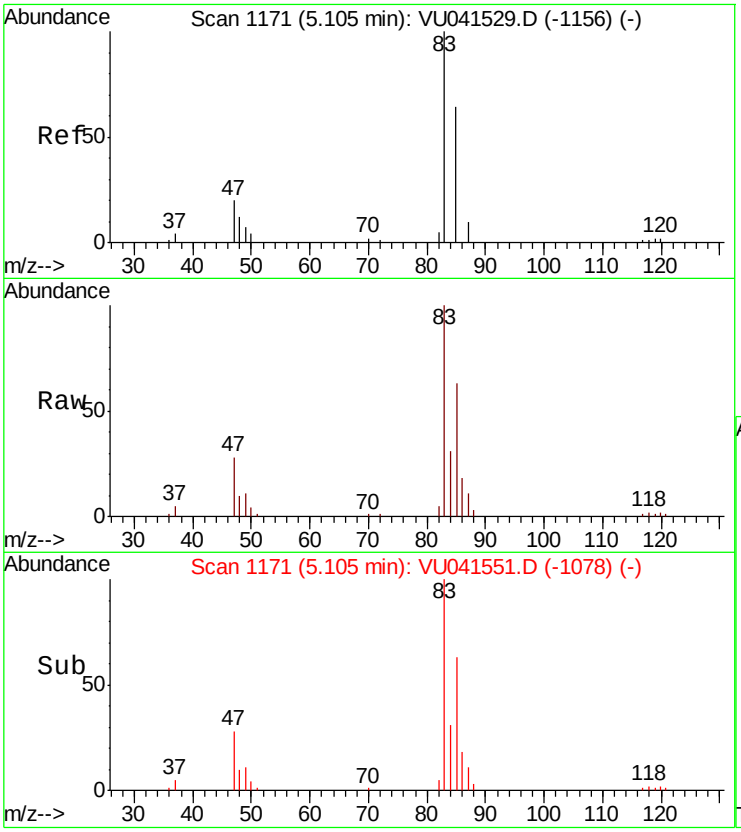




#23
Bromochloromethane
Concen: 5.086 ug/L
RT: 4.99 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:128 Resp: 8049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 104.6 | 84.2 | 156.4 |
| 130 | 133.2 | 89.9 | 167.0 |
| 51 | 33.5 | 30.4 | 45.6 |



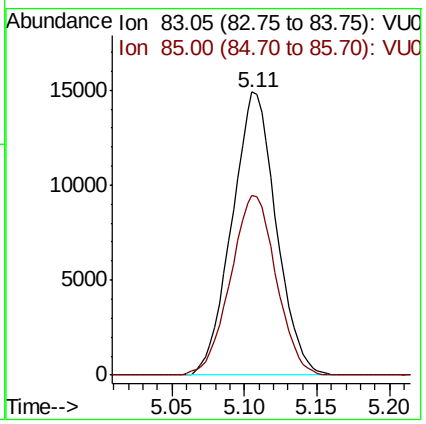


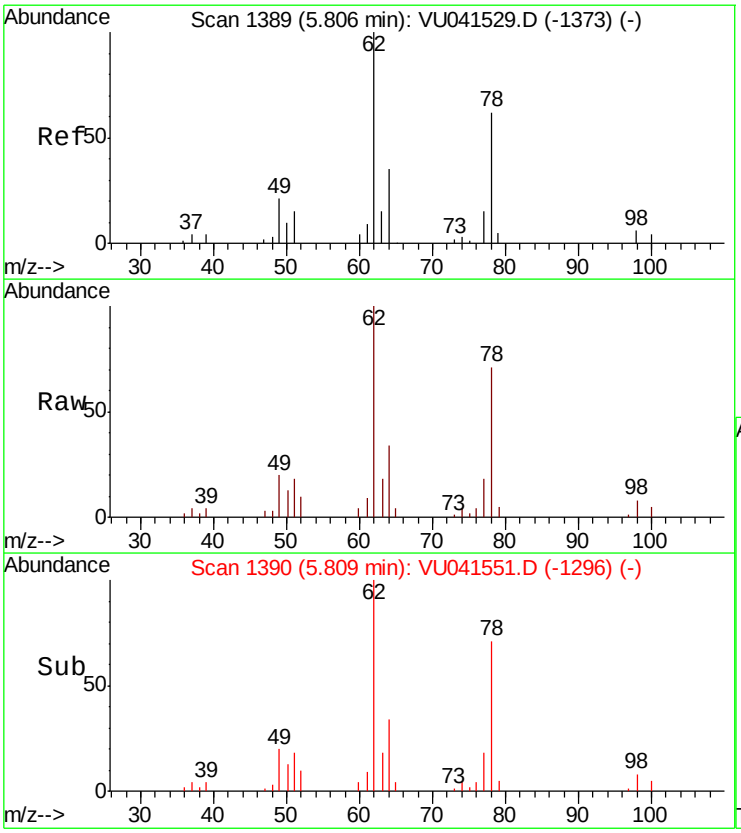

#25
Chloroform
Concen: 4.910 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 83 Resp: 31557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 44.7 | 82.9 |

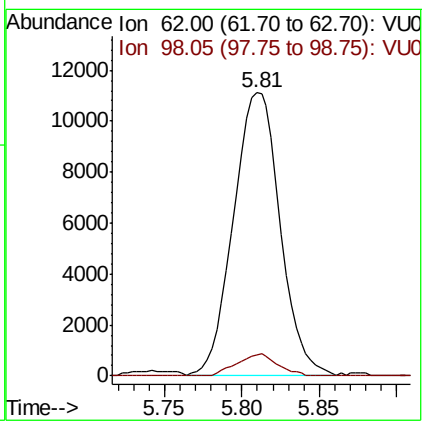


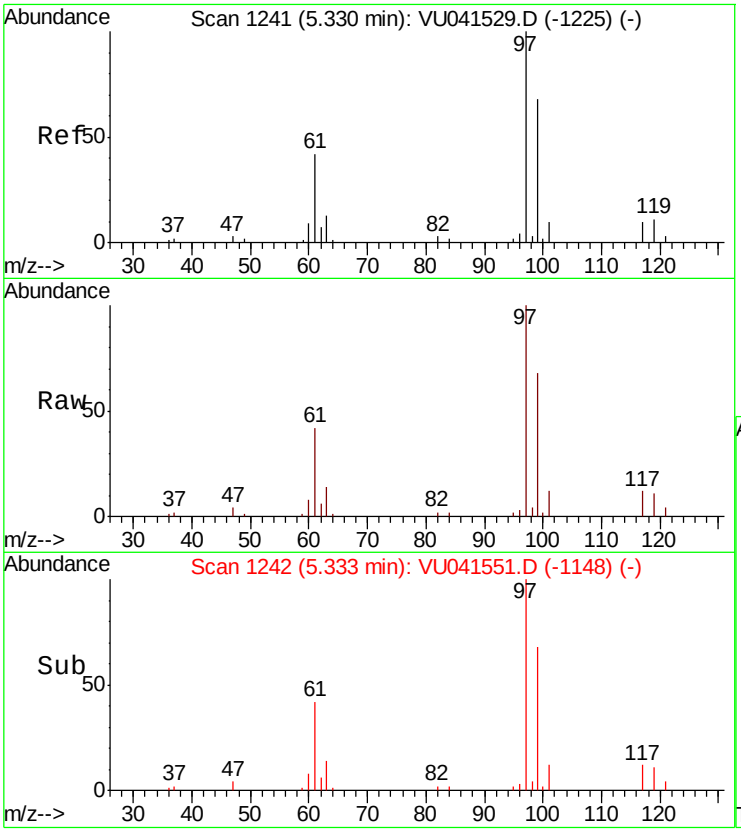




#27
1,2-Dichloroethane
Concen: 4.657 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 62 Resp: 23392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 5.7 | 8.5 |



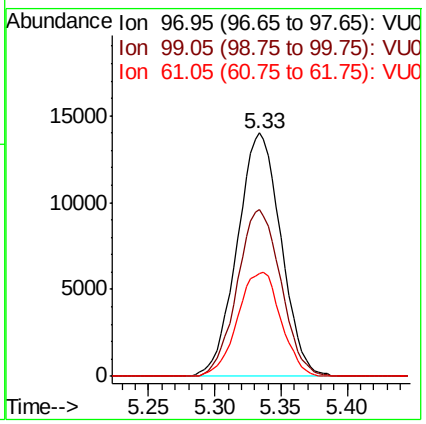


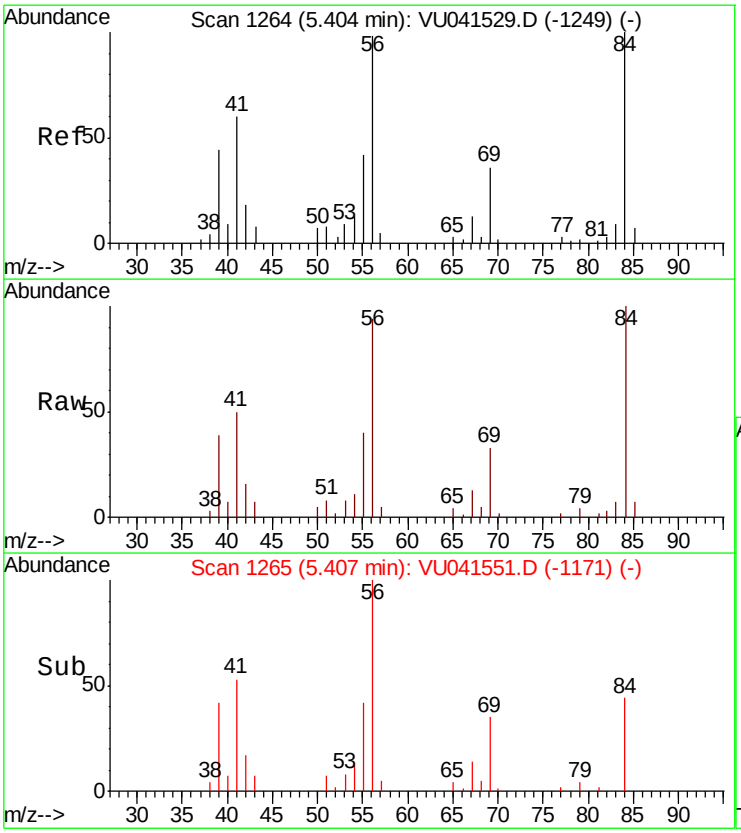

#29
1,1,1-Trichloroethane
Concen: 4.912 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 97 Resp: 32071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 68.4 | 51.0 | 76.6 |
| 61 | 42.3 | 34.6 | 52.0 |

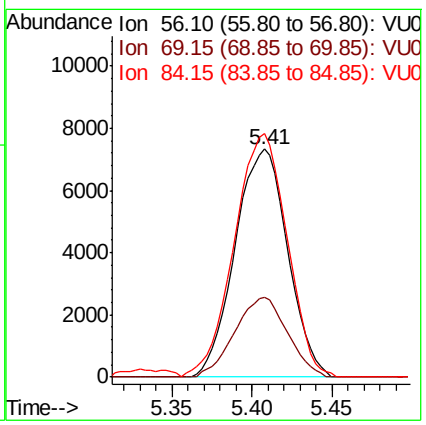


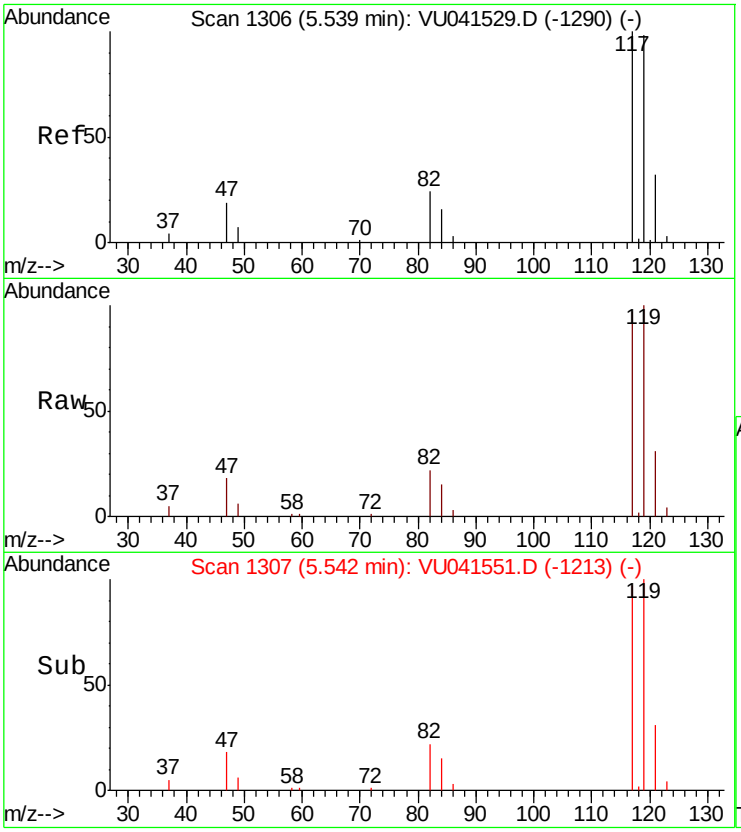




#30
Cyclohexane
Concen: 4.023 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 56 Resp: 16519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.1 | 25.9 | 38.9 |
| 84 | 107.1 | 74.9 | 112.3 |



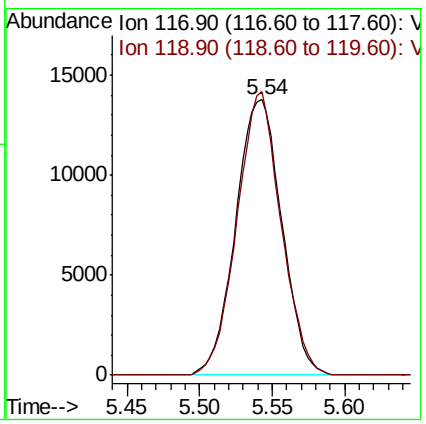


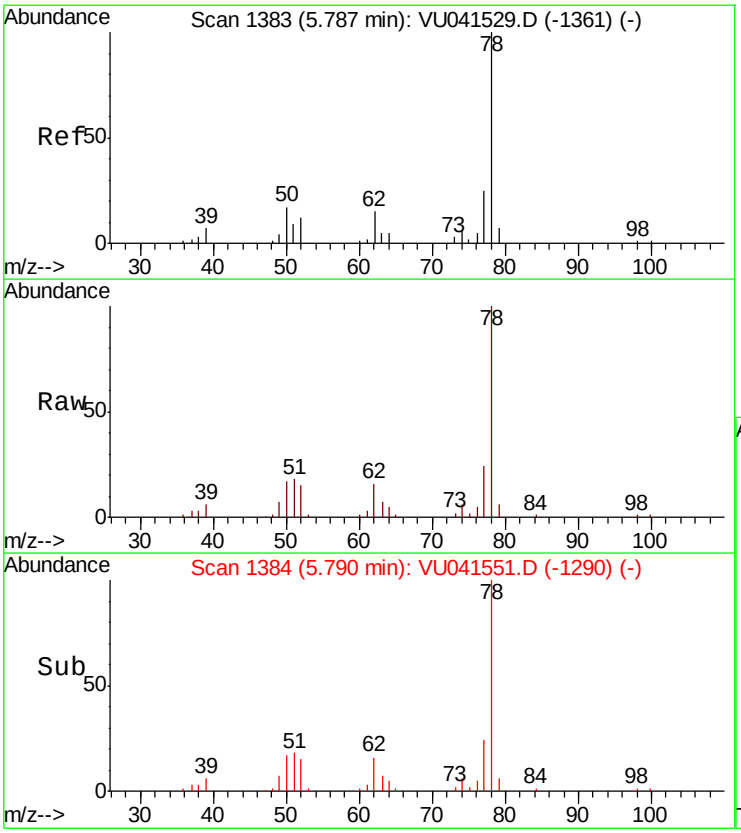

#31
Carbon tetrachloride
Concen: 5.038 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:117 Resp: 30463

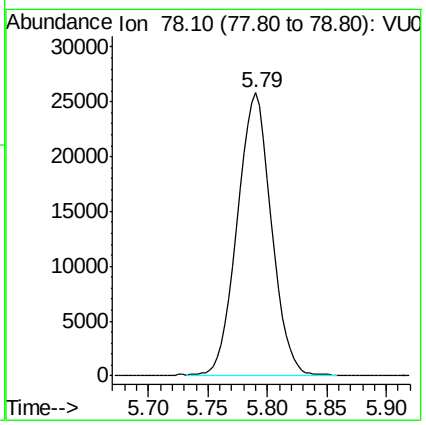
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 77.2 | 115.8 |

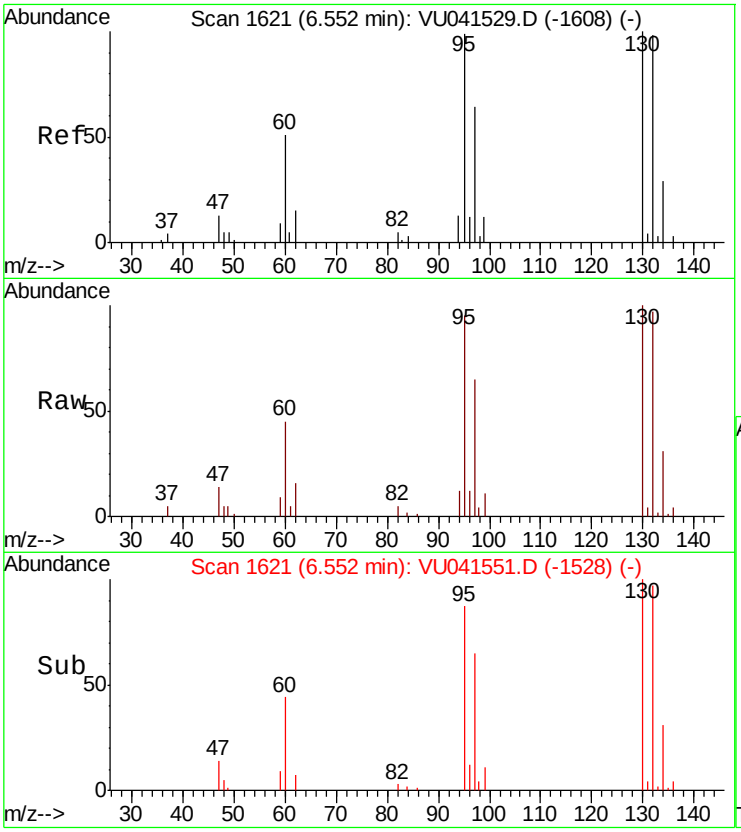



#33
Benzene
Concen: 4.559 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 78 Resp: 51419



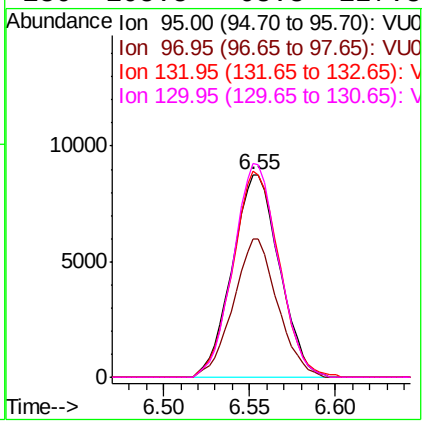


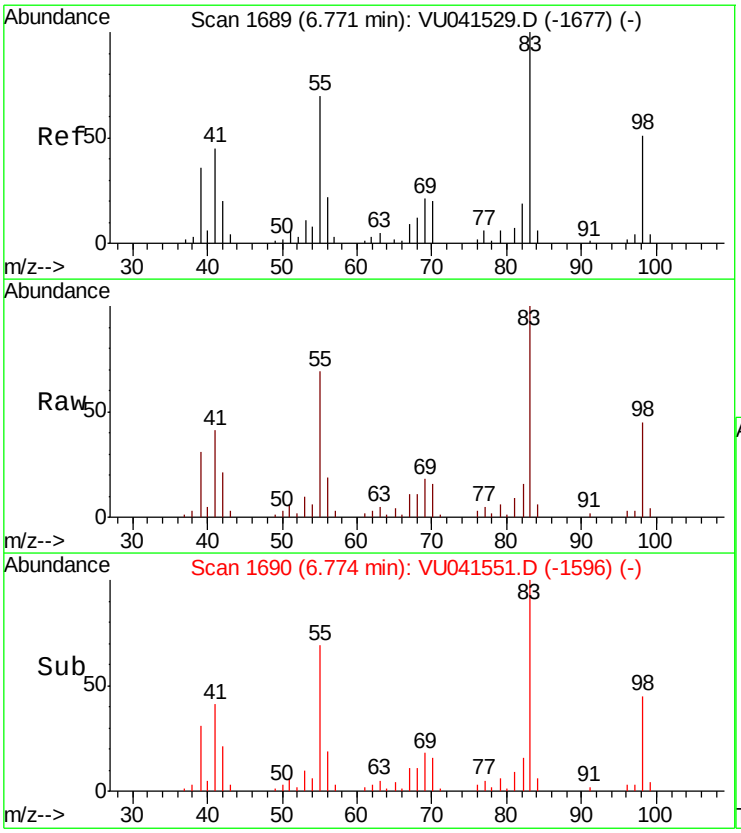

#34
Trichloroethene
Concen: 4.886 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 95 Resp: 16630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 68.5 | 44.7 | 83.1 |
| 132 | 101.9 | 65.7 | 121.9 |
| 130 | 105.5 | 68.8 | 127.8 |

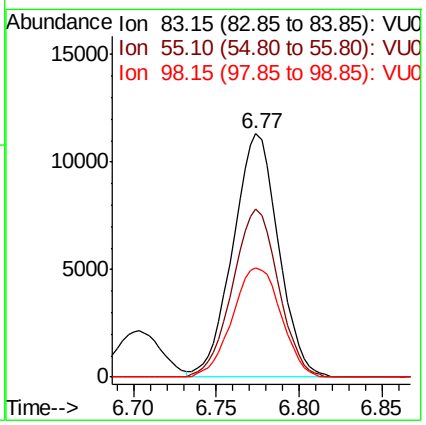


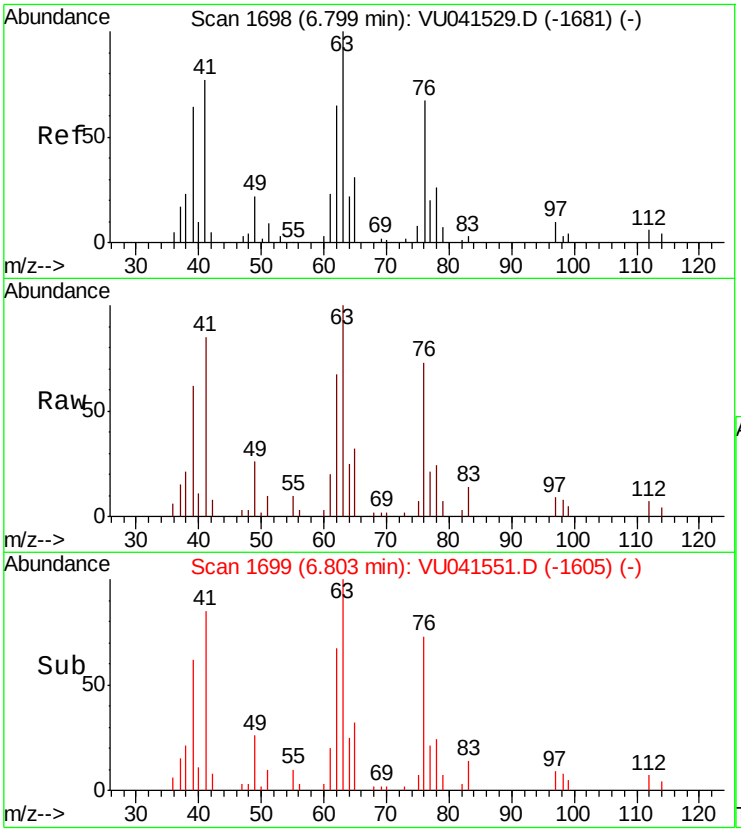




#35
Methylcyclohexane
Concen: 4.663 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 83 Resp: 21652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.3 | 62.1 | 93.1 |
| 98 | 48.1 | 38.7 | 58.1 |



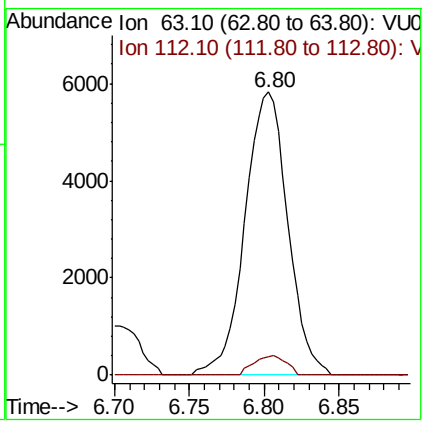


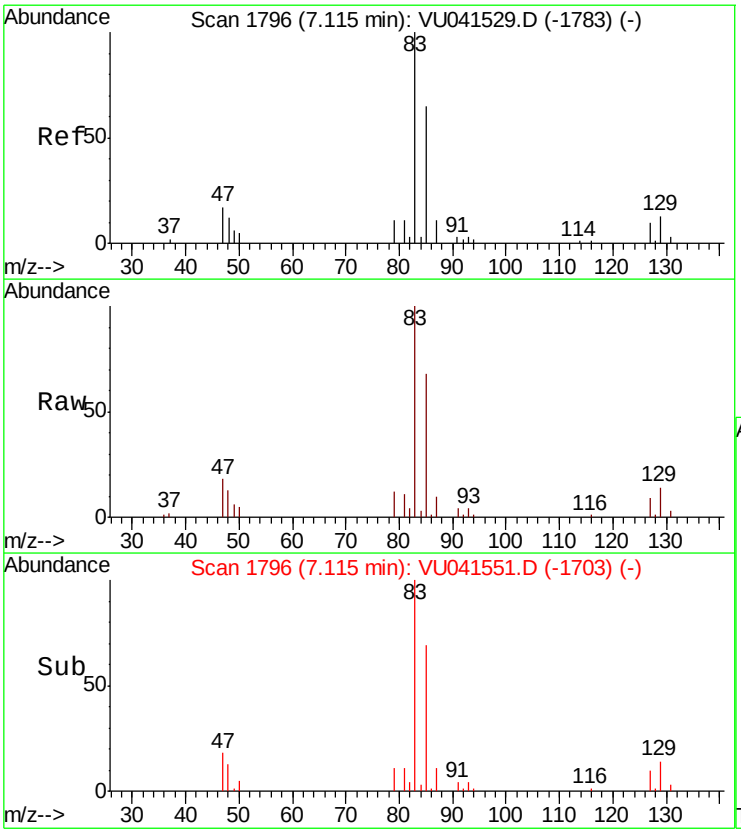

#37
1,2-Dichloropropane
Concen: 4.397 ug/L
RT: 6.80 min Scan# 1699
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 63 Resp: 11620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 5.2 | 4.2 | 6.2 |

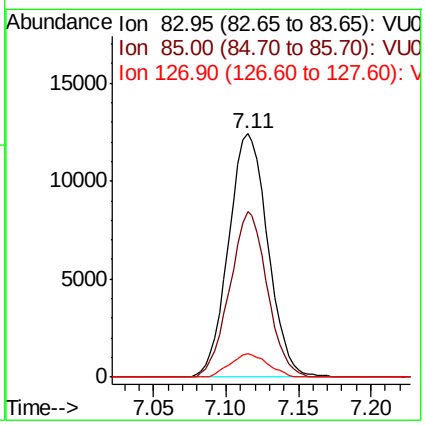


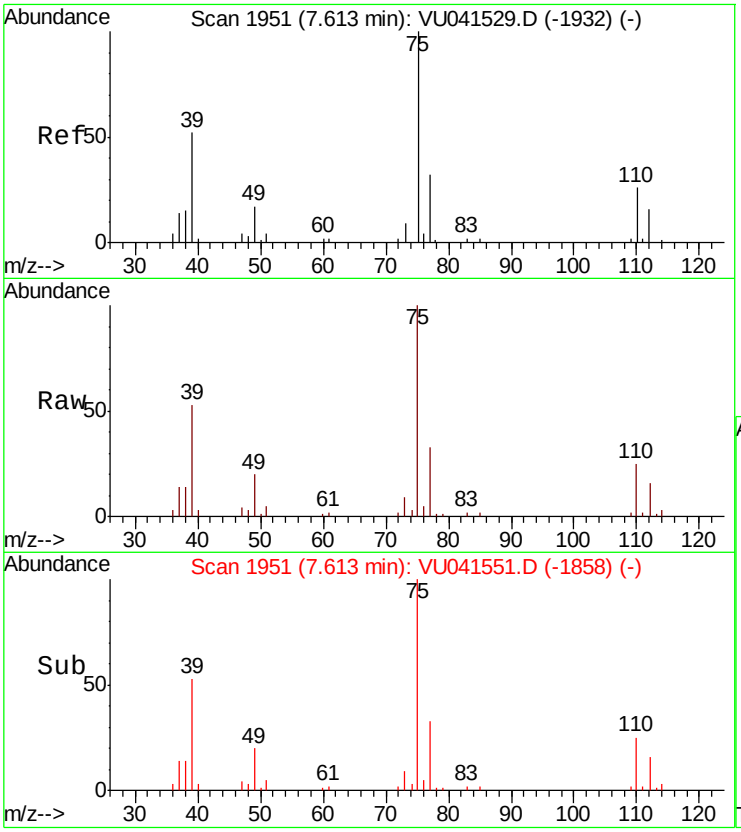




#38
Bromodichloromethane
Concen: 4.841 ug/L
RT: 7.11 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 83 Resp: 23374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.8 | 46.7 | 86.7 |
| 127 | 9.4 | 6.6 | 10.0 |



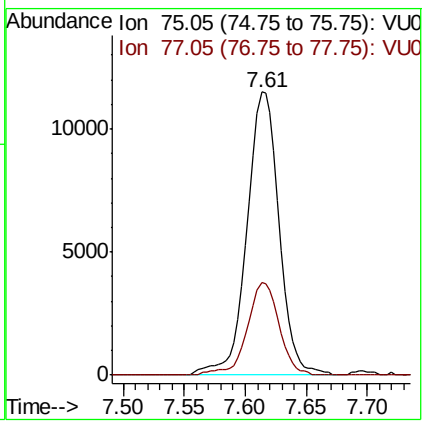


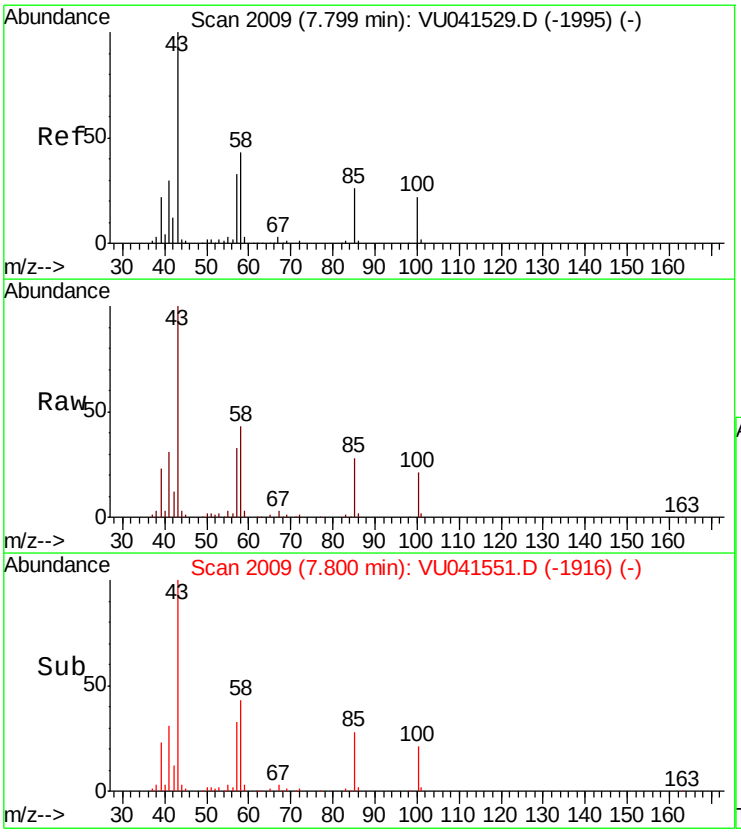

#39
cis-1,3-Dichloropropene
Concen: 4.366 ug/L
RT: 7.61 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 75 Resp: 20843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 24.0 | 44.6 |

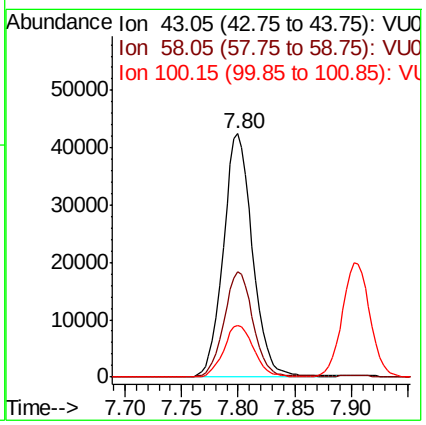


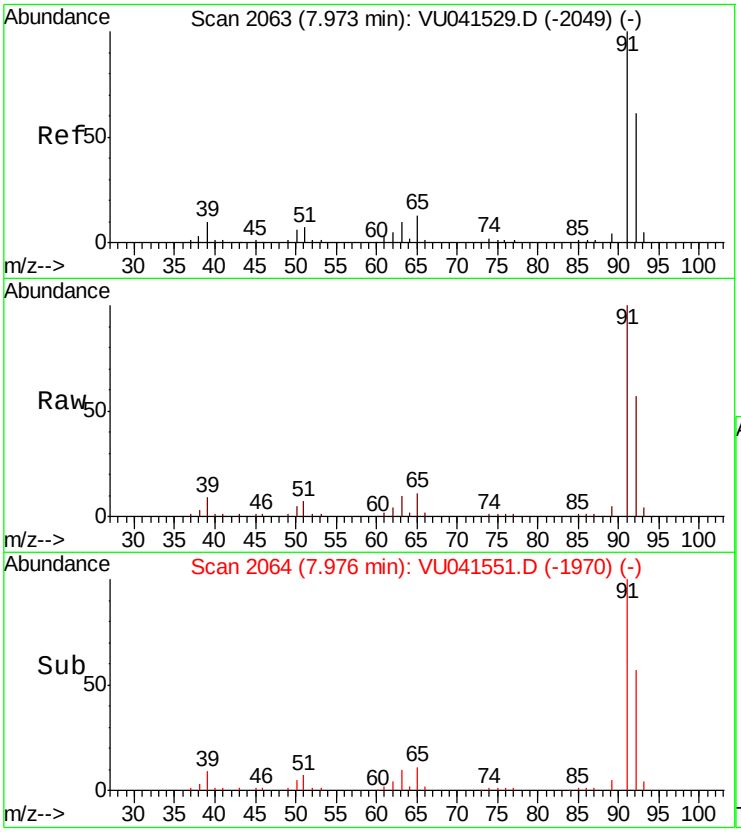




#40
4-Methyl-2-pentanone
Concen: 36.148 ug/L
RT: 7.80 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 43 Resp: 76544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.1 | 32.0 | 48.0 |
| 100 | 21.9 | 14.2 | 21.2# |



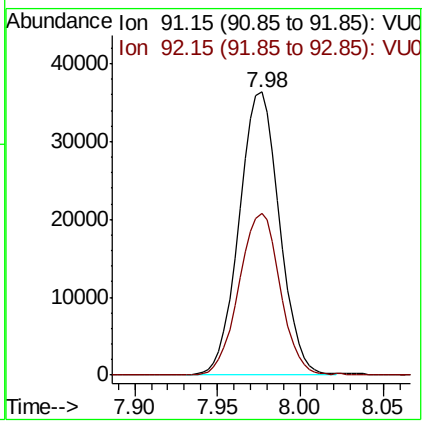


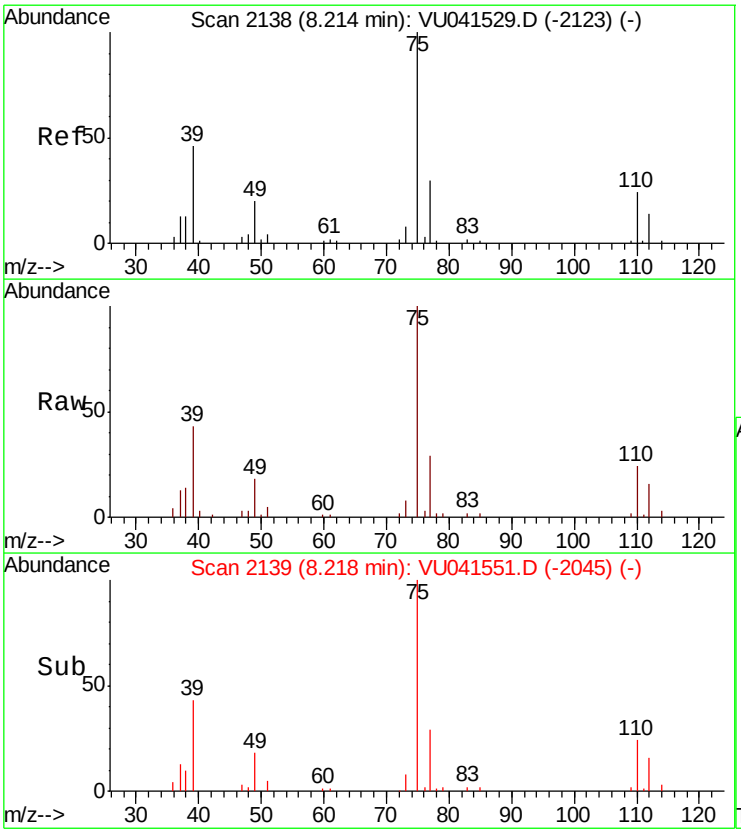

#42
Toluene
Concen: 4.848 ug/L
RT: 7.98 min Scan# 2064
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 91 Resp: 61534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.3 | 40.8 | 75.8 |

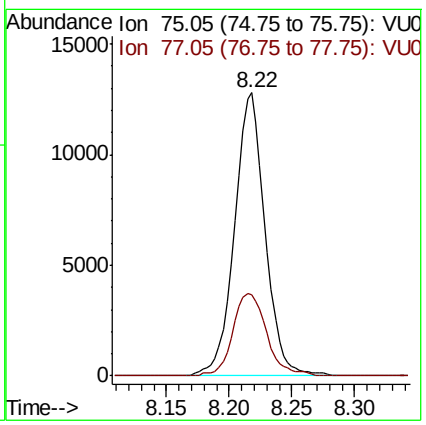


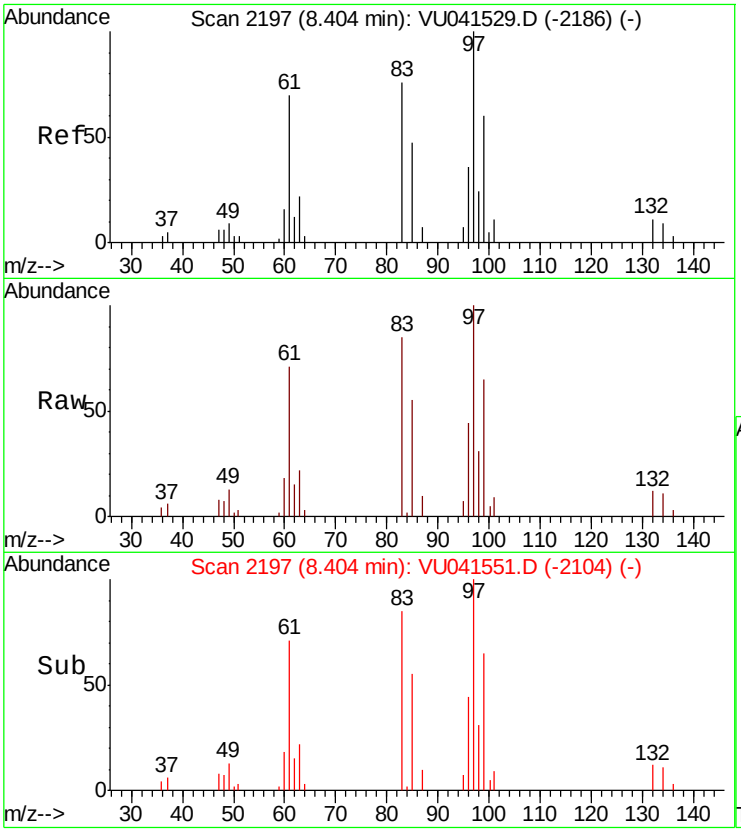




#44
trans-1,3-Dichloropropene
Concen: 4.541 ug/L
RT: 8.22 min Scan# 2139
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 75 Resp: 21652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.6 | 22.7 | 42.3 |



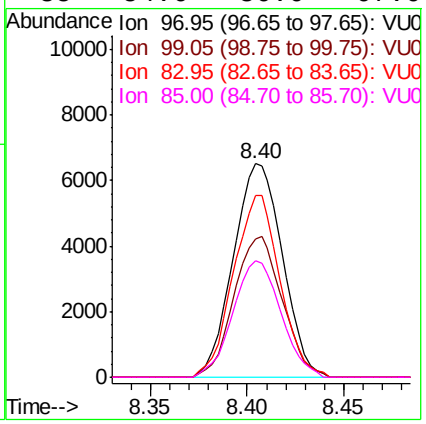


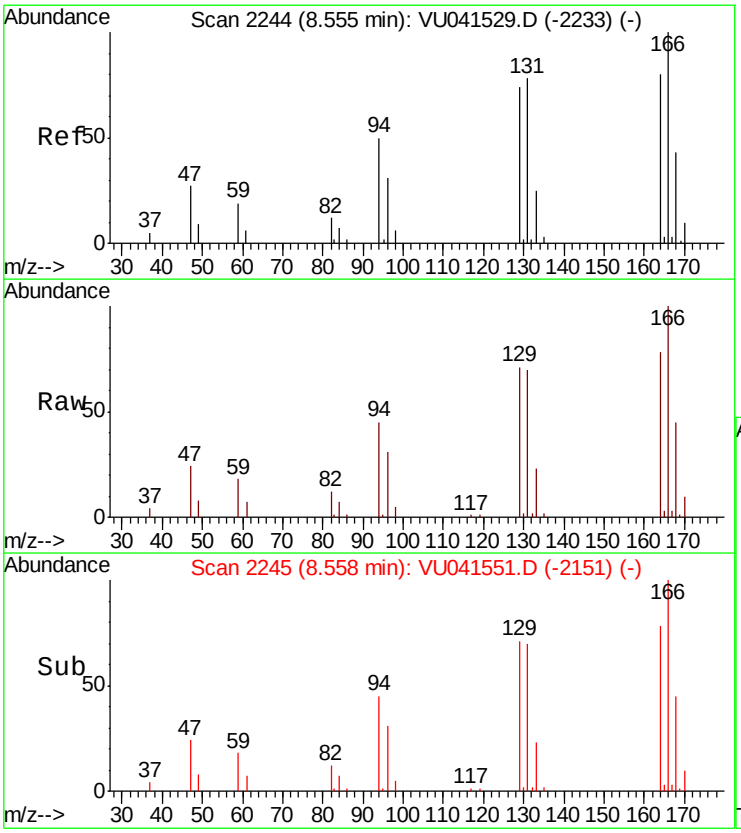

#45
1,1,2-Trichloroethane
Concen: 4.508 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion: 97 Resp: 11491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 40.7 | 75.7 |
| 83 | 85.2 | 56.2 | 104.4 |
| 85 | 54.6 | 36.0 | 67.0 |

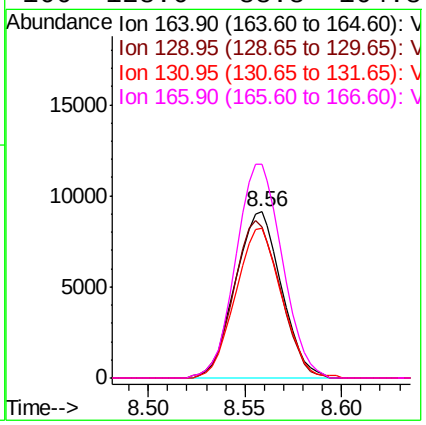


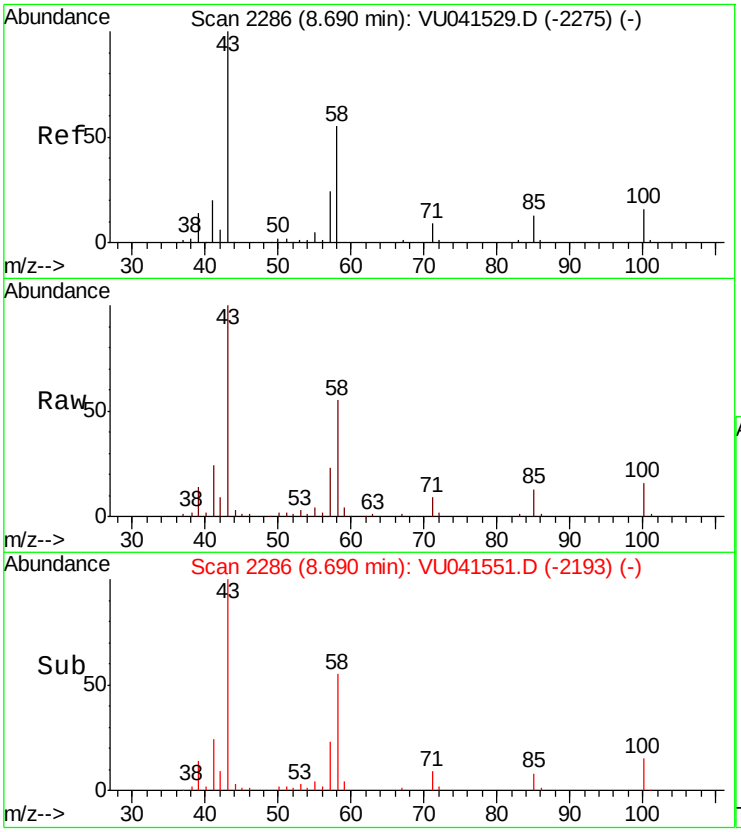




#47
Tetrachloroethene
Concen: 5.655 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:164 Resp: 15204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 90.8 | 67.1 | 124.7 |
| 131 | 90.4 | 63.3 | 117.7 |
| 166 | 128.6 | 88.8 | 164.8 |



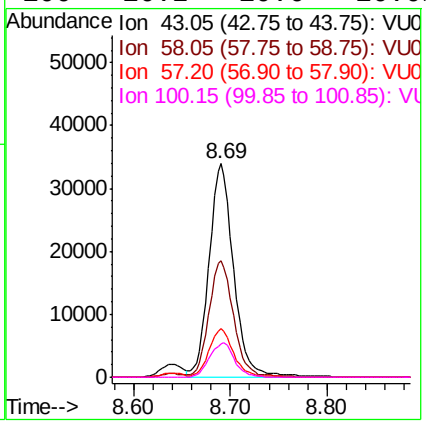


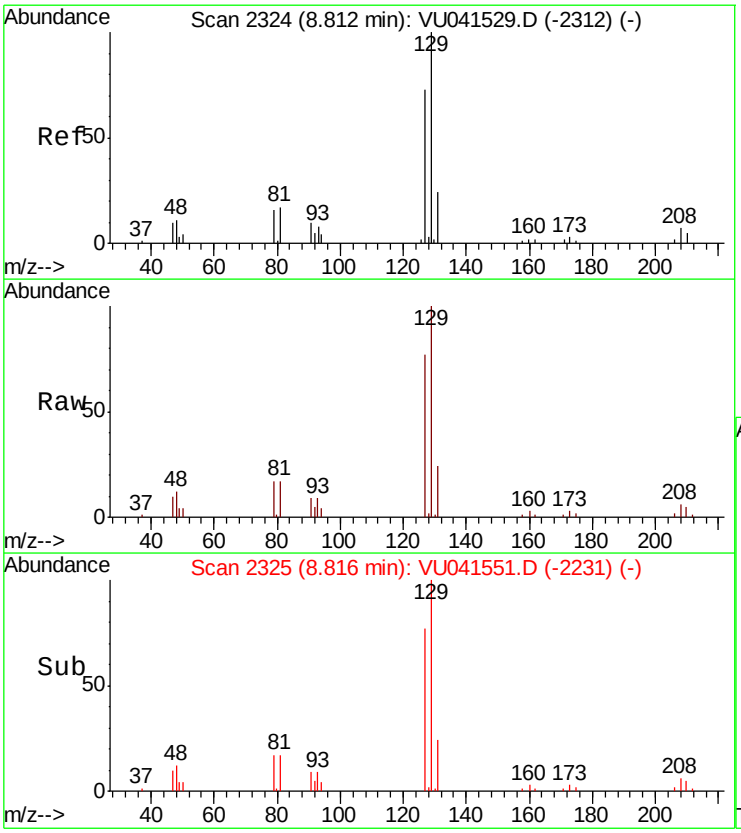

#48
2-Hexanone
Concen: 35.213 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion: 43 Resp: 59916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 41.4 | 62.0 |
| 57 | 22.8 | 17.1 | 25.7 |
| 100 | 16.2 | 10.6 | 16.0# |

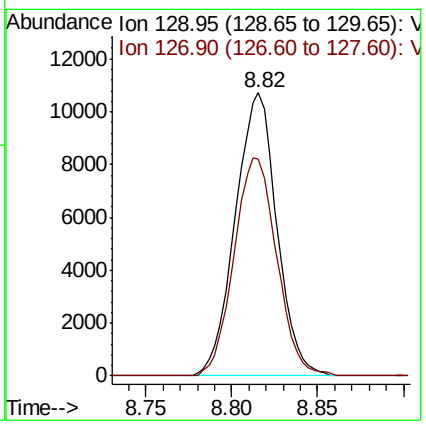


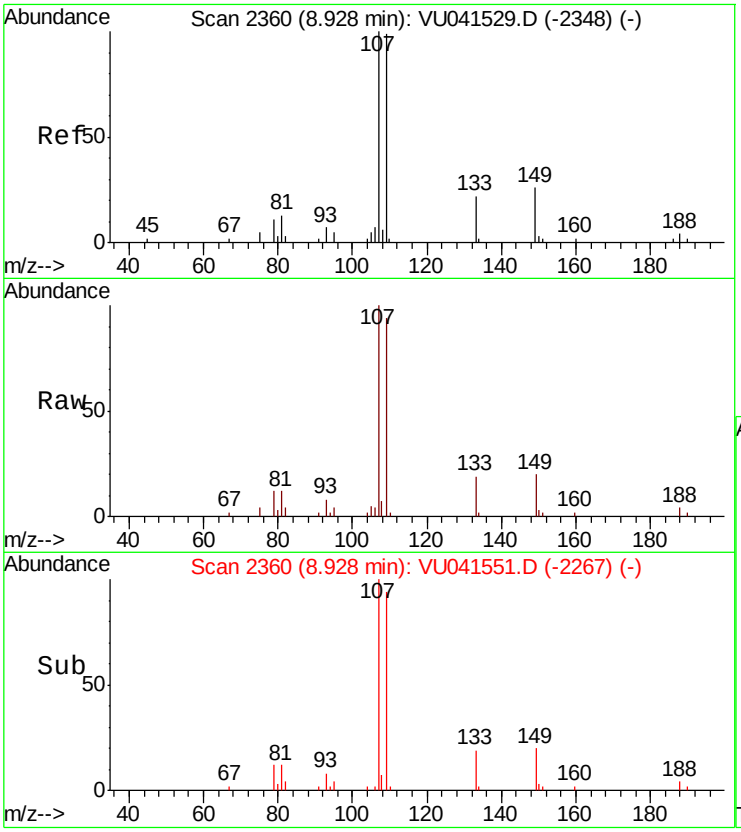




#49
Dibromochloromethane
Concen: 5.200 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:129 Resp: 18058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 52.4 | 97.2 |



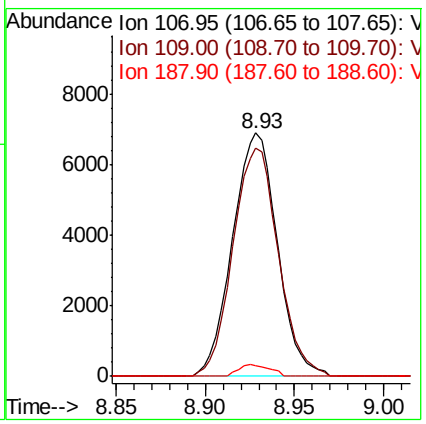


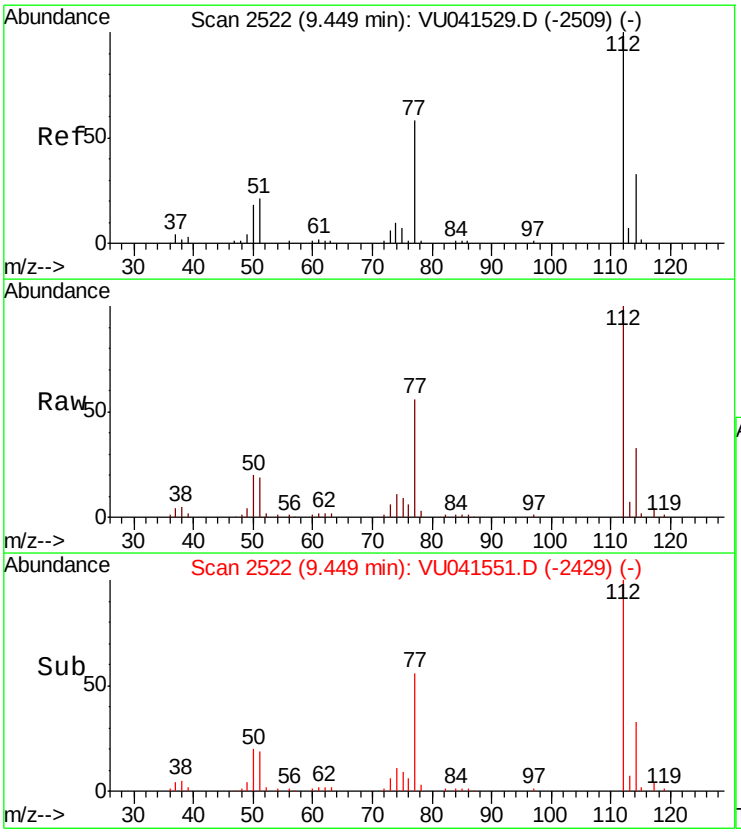

#50
1,2-Dibromoethane
Concen: 4.703 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:107 Resp: 12092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 62.3 | 115.7 |
| 188 | 4.4 | 4.2 | 6.4 |

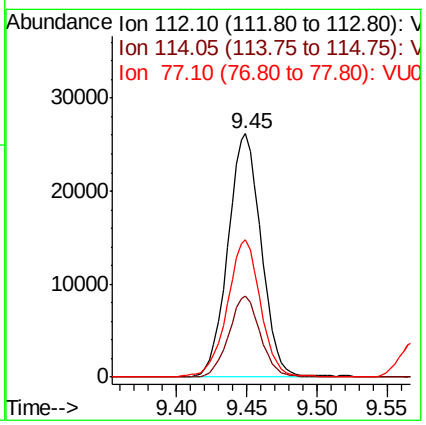


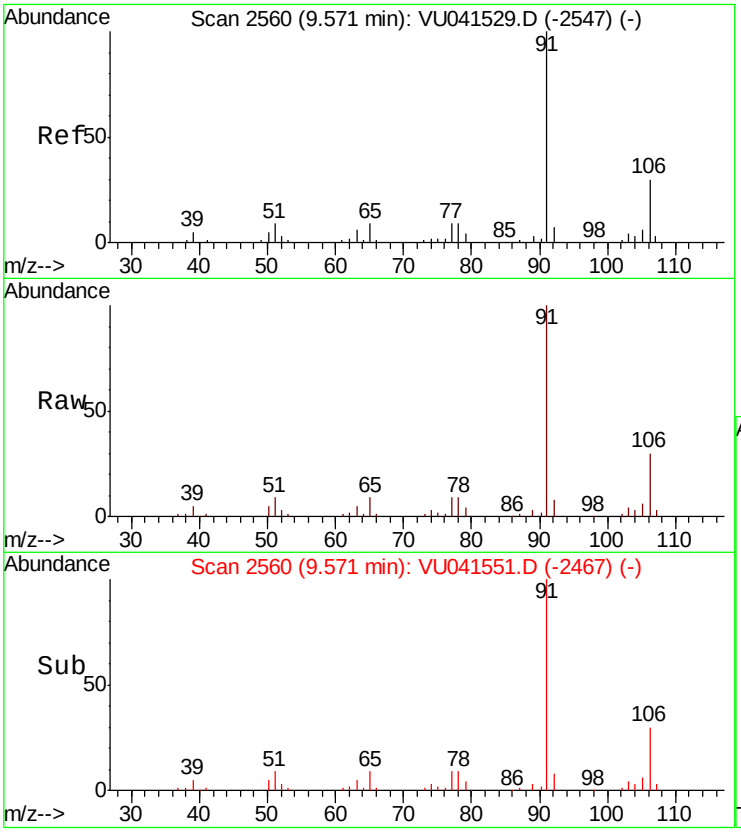




#51
Chlorobenzene
Concen: 5.097 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:112 Resp: 43115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.2 | 22.7 | 42.1 |
| 77 | 56.3 | 48.2 | 72.2 |

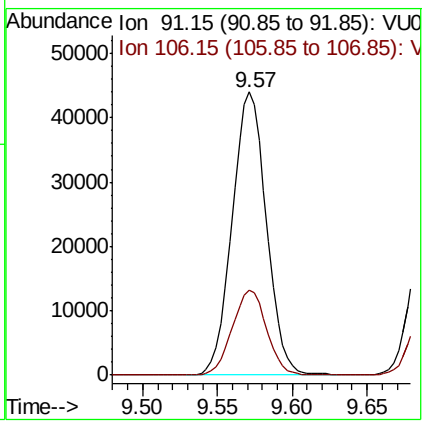




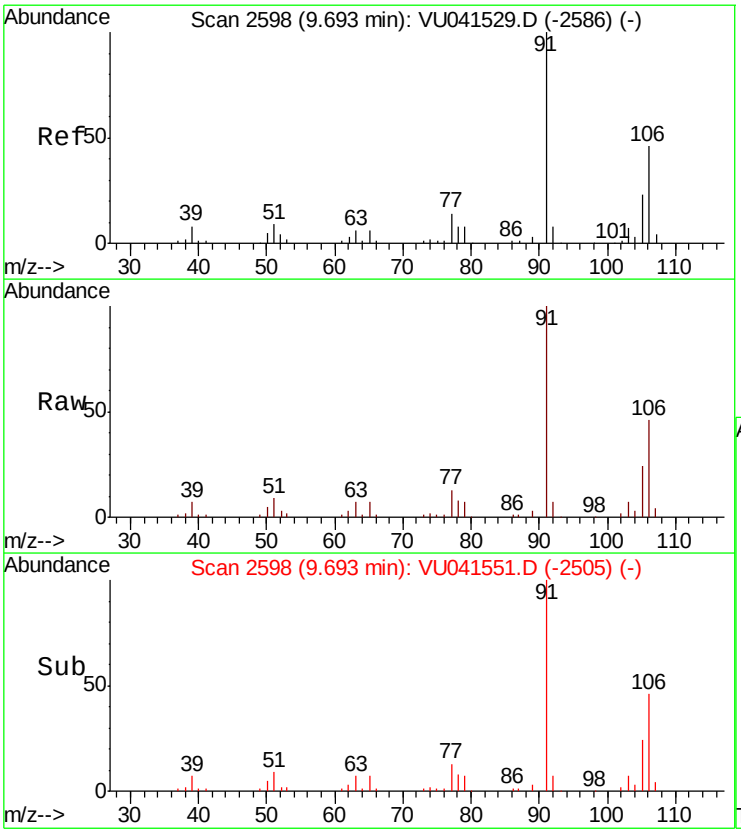

#52
Ethylbenzene
Concen: 4.815 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 91 Resp: 70039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 21.8 | 40.4 |



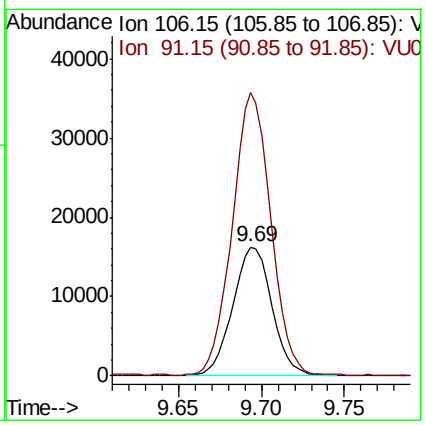

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

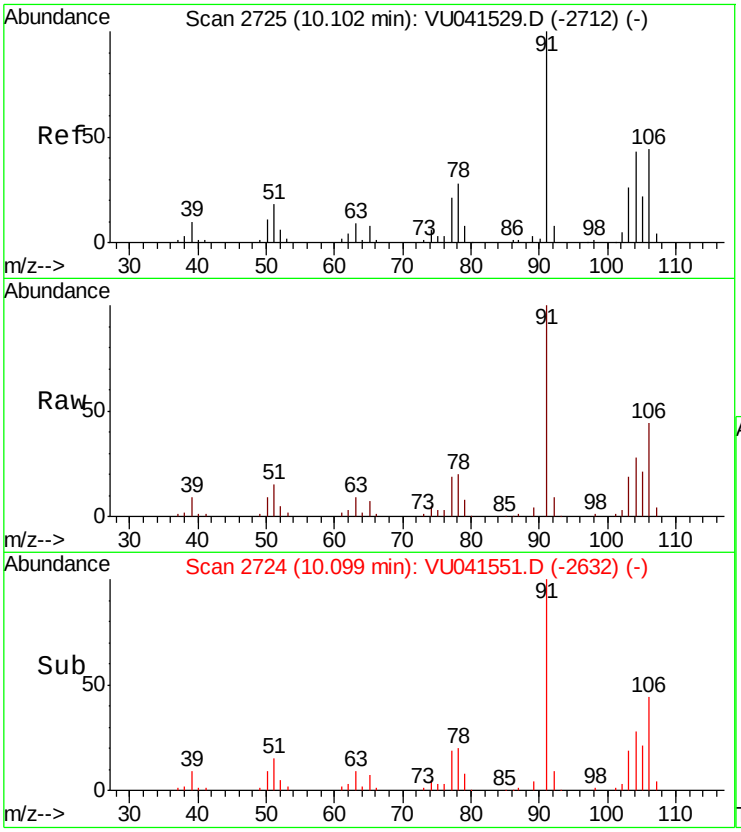



#53
m,p-Xylene
Concen: 5.057 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:106 Resp: 26701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 151.8 | 282.0 |



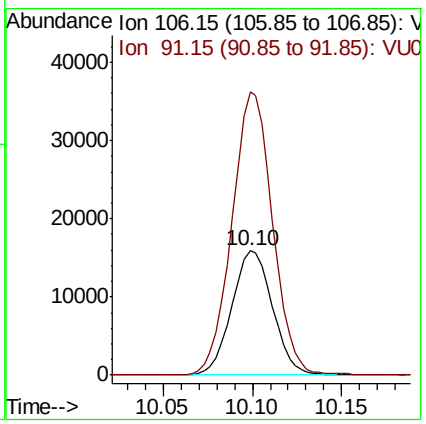


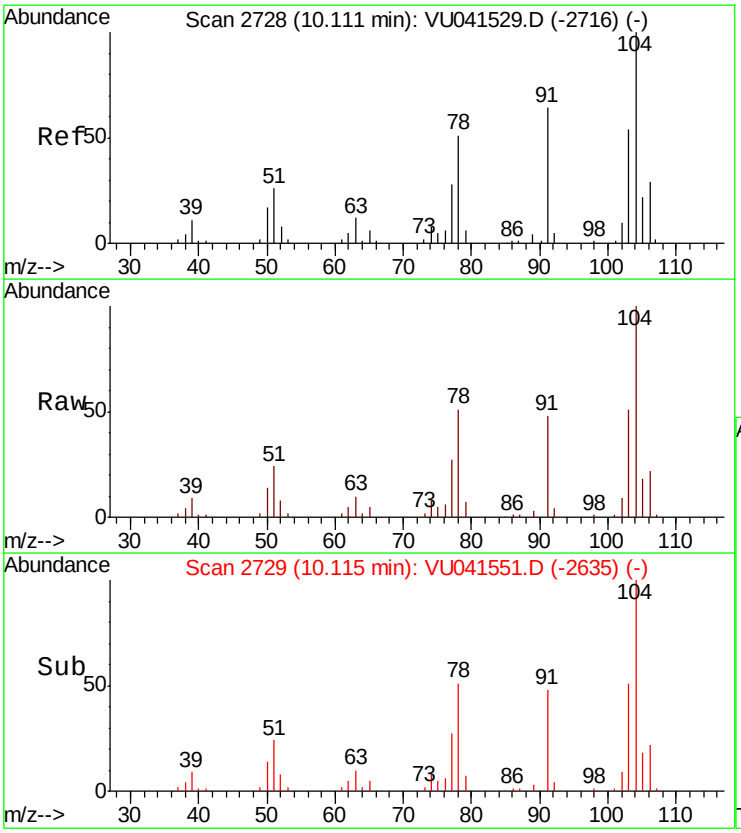

#54
o-Xylene
Concen: 4.931 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion:106 Resp: 25244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 227.5 | 165.8 | 308.0 |

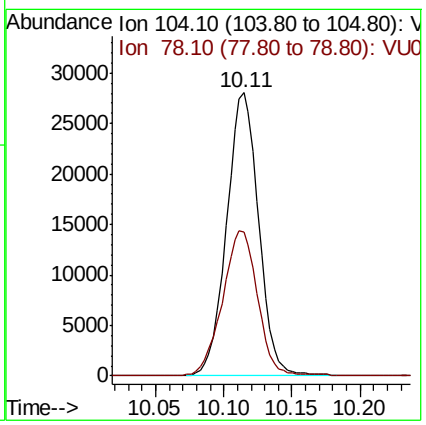


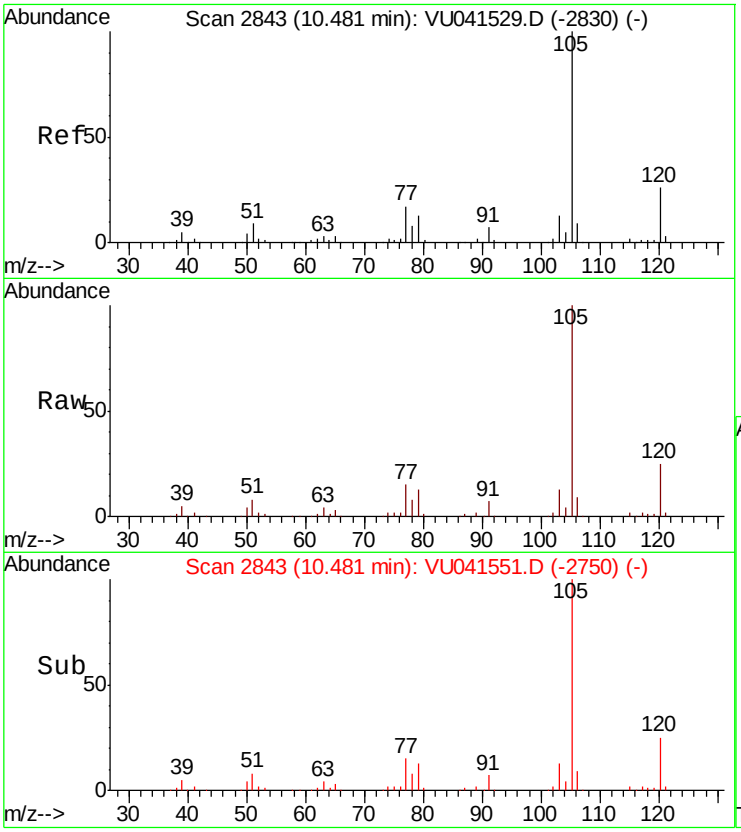




#55
Styrene
Concen: 5.258 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:104 Resp: 45713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.6 | 39.8 | 74.0 |



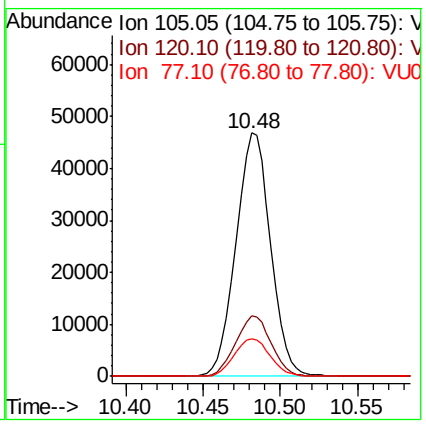


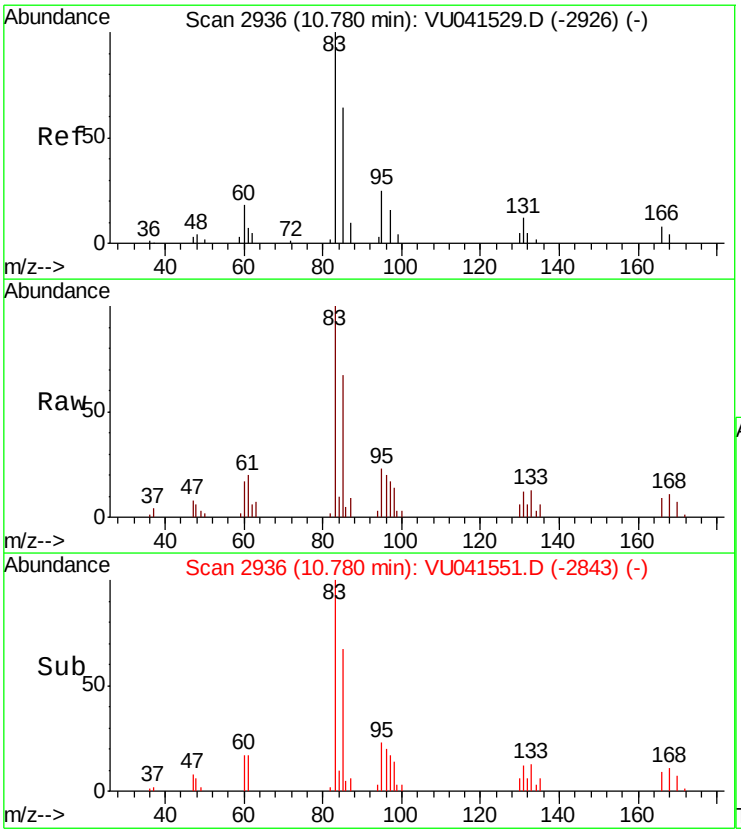

#56
Isopropylbenzene
Concen: 5.030 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:105 Resp: 72696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 20.0 | 30.0 |
| 77 | 15.9 | 13.9 | 20.9 |

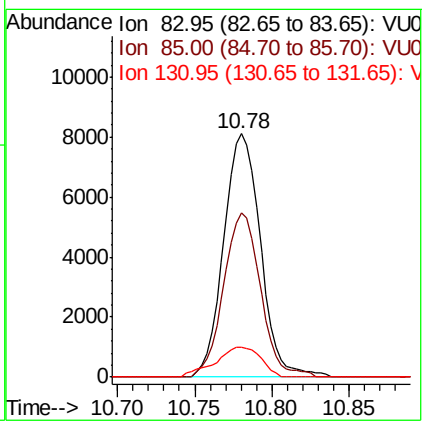


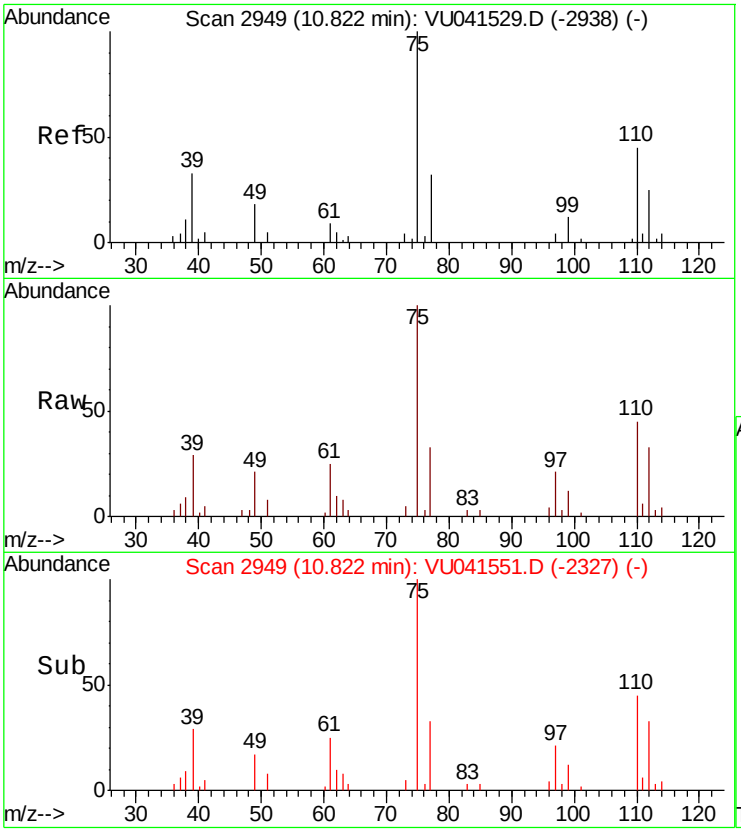




#58
1,1,2,2-Tetrachloroethane
Concen: 4.285 ug/L
RT: 10.78 min Scan# 2936
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 83 Resp: 13416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.4 | 45.2 | 84.0 |
| 131 | 12.2 | 9.1 | 13.7 |



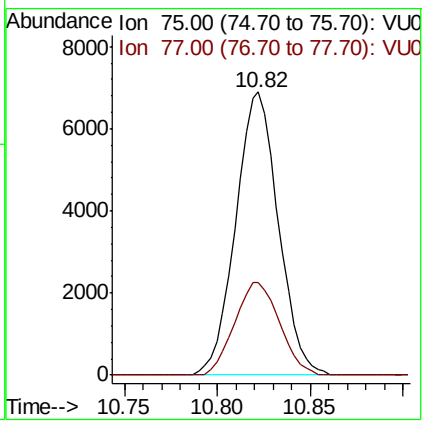


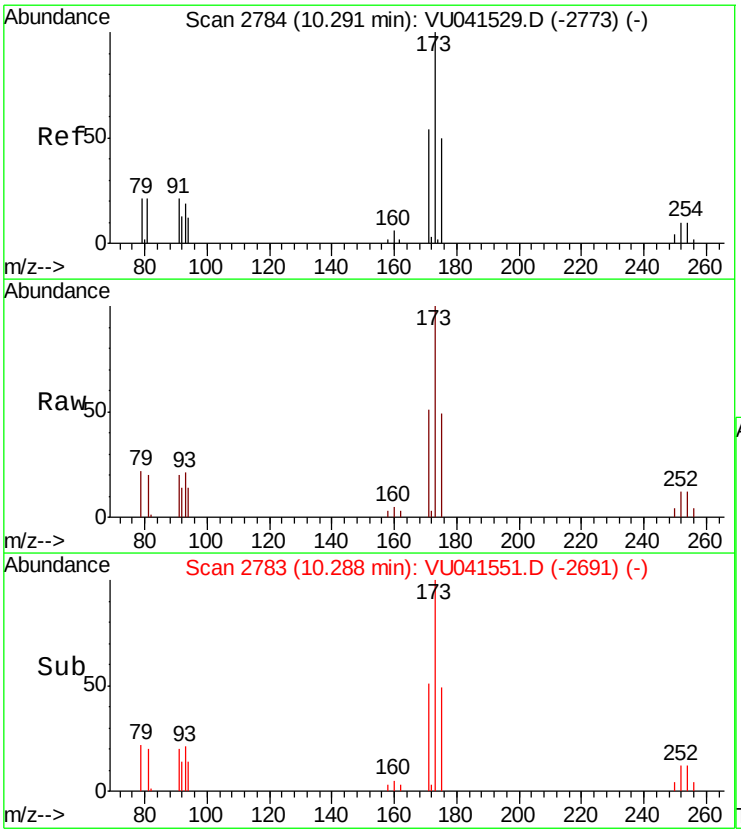

#59
1,2,3-Trichloropropane
Concen: 4.290 ug/L
RT: 10.82 min Scan# 2949
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00510

Tgt Ion: 75 Resp: 11002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.4 | 26.3 | 39.5 |

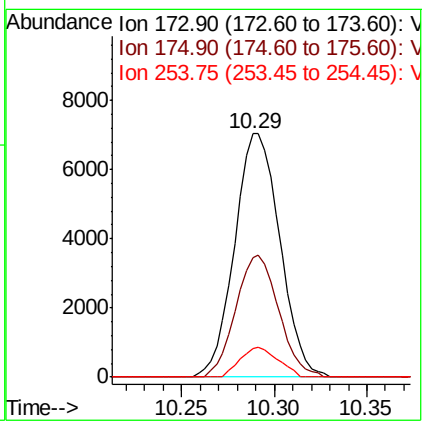


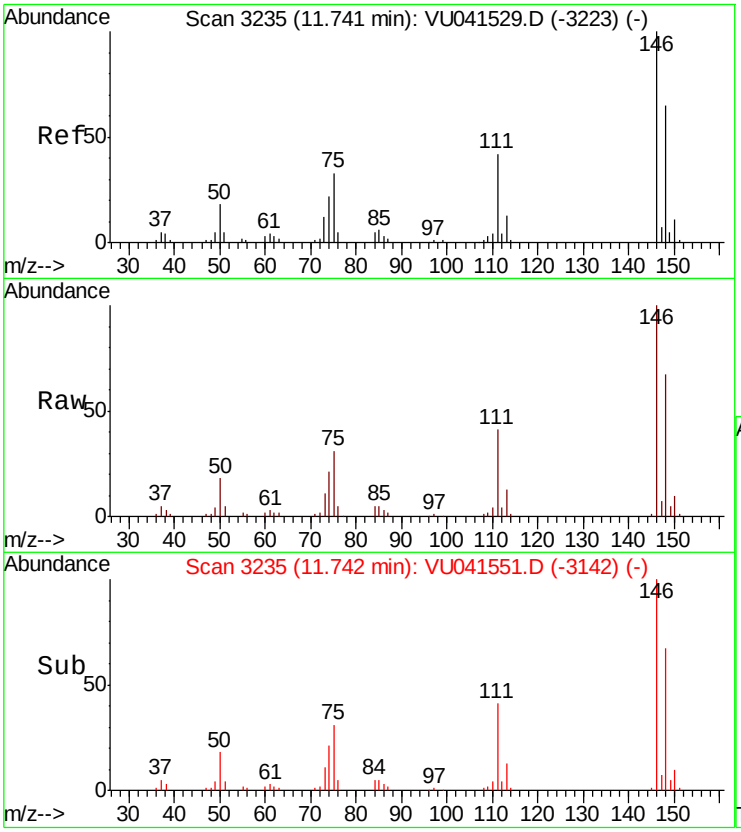




#61
Bromoform
Concen: 5.253 ug/L
RT: 10.29 min Scan# 2783
Delta R.T. -0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:173 Resp: 11977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 38.8 | 58.2 |
| 254 | 10.1 | 7.6 | 11.4 |



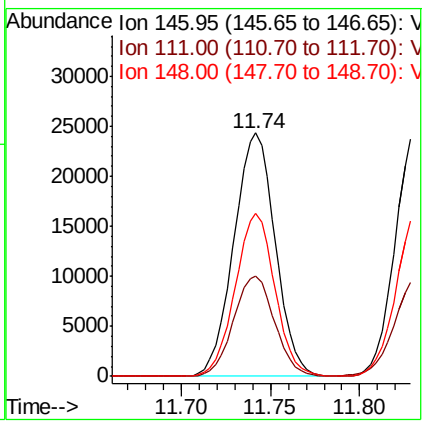


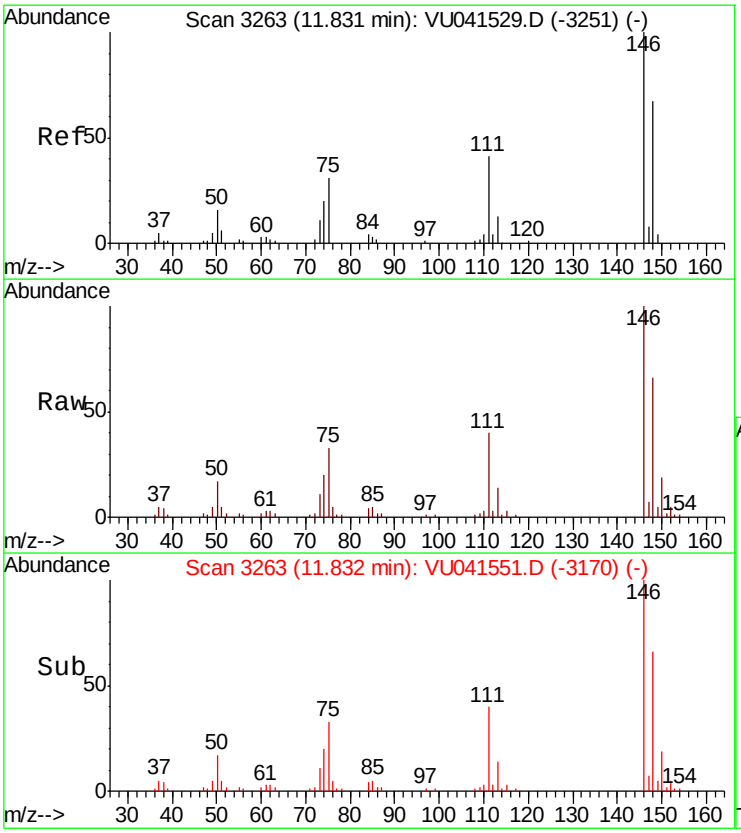

#62
1,3-Dichlorobenzene
Concen: 5.171 ug/L
RT: 11.74 min Scan# 3235
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:146 Resp: 39538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 30.2 | 56.0 |
| 148 | 66.8 | 44.0 | 81.6 |

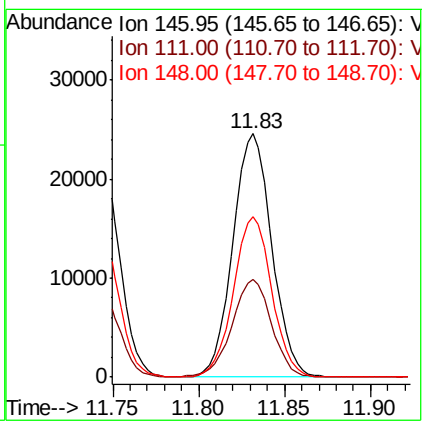


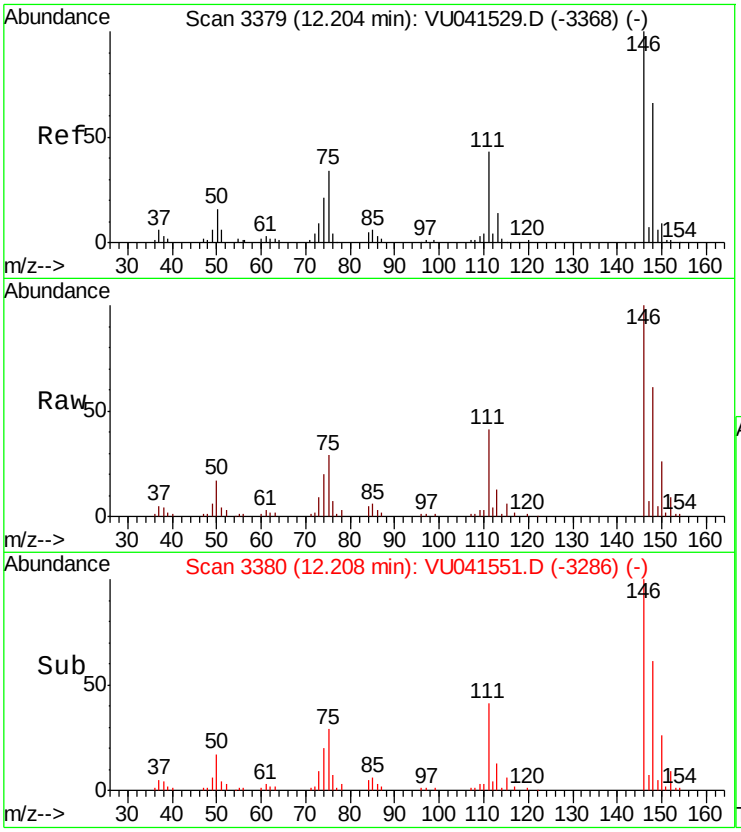




#63
1,4-Dichlorobenzene
Concen: 4.949 ug/L
RT: 11.83 min Scan# 3263
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:146 Resp: 38798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 30.7 | 57.1 |
| 148 | 66.1 | 45.8 | 85.2 |



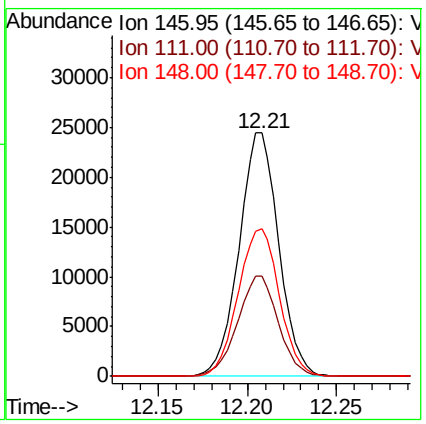


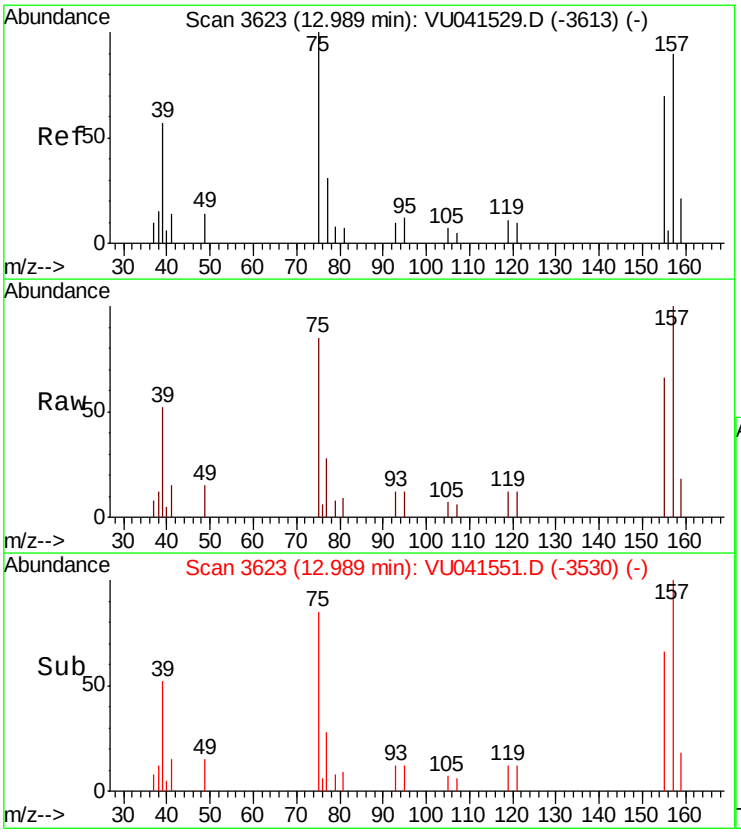

#65
1,2-Dichlorobenzene
Concen: 4.993 ug/L
RT: 12.21 min Scan# 3380
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:146 Resp: 37801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 36.0 | 54.0 |
| 148 | 60.8 | 49.0 | 73.6 |

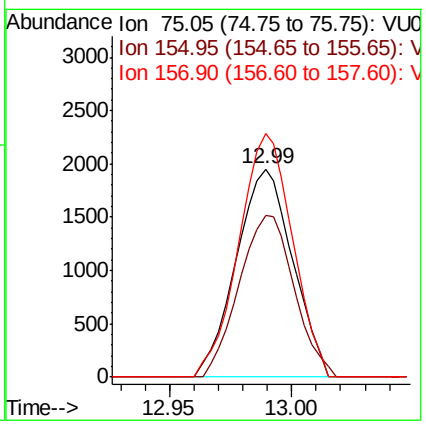


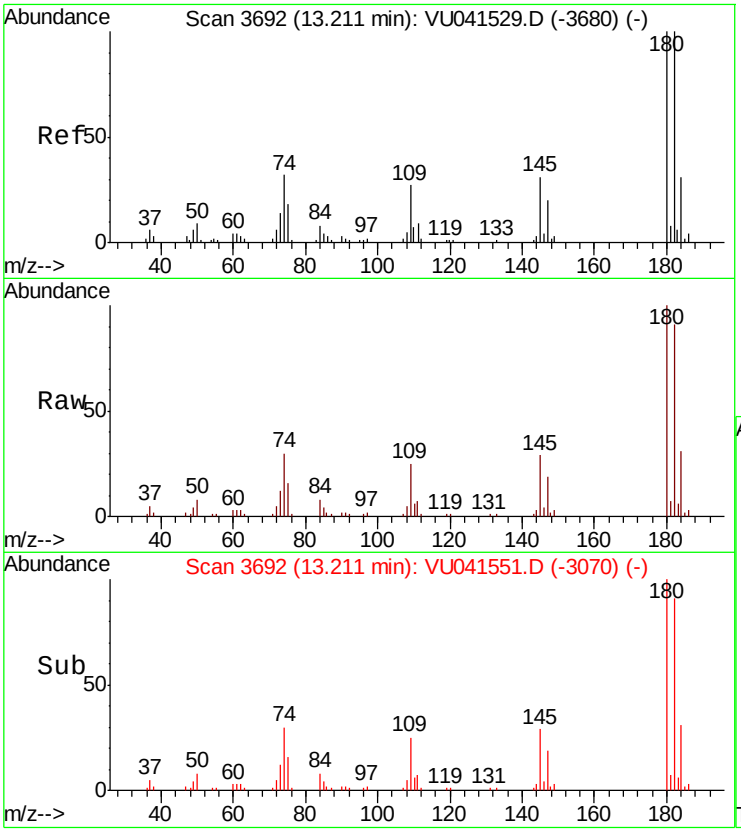




#66
1,2-Dibromo-3-chloropropane
Concen: 4.210 ug/L
RT: 12.99 min Scan# 3623
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion: 75 Resp: 3122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.5 | 58.0 | 87.0 |
| 157 | 117.0 | 77.1 | 115.7# |



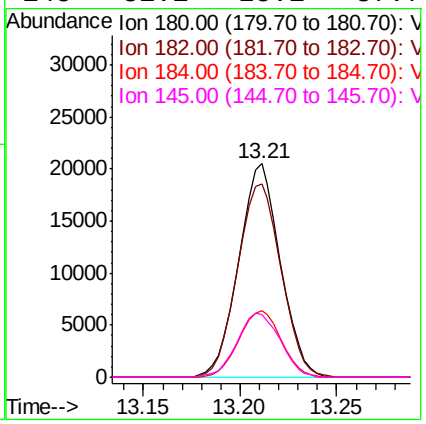


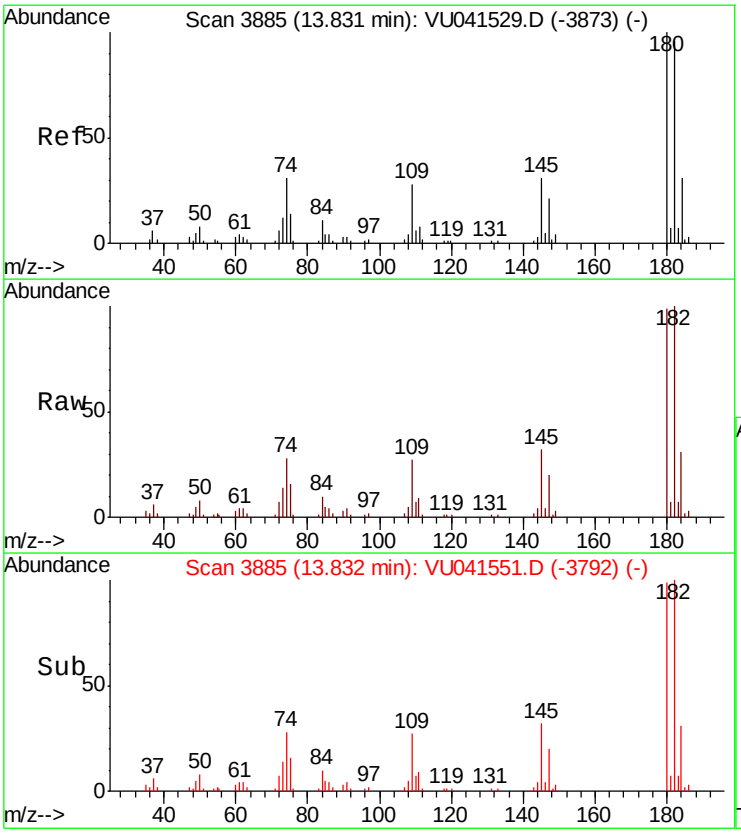

#67
1,3,5-Trichlorobenzene
Concen: 5.020 ug/L
RT: 13.21 min Scan# 3692
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:180 Resp: 30671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 76.3 | 114.5 |
| 184 | 31.9 | 23.8 | 35.6 |
| 145 | 31.1 | 25.1 | 37.7 |

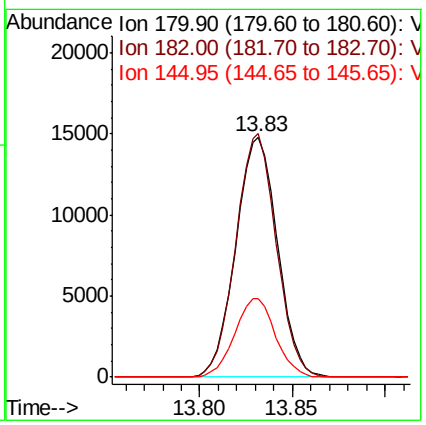


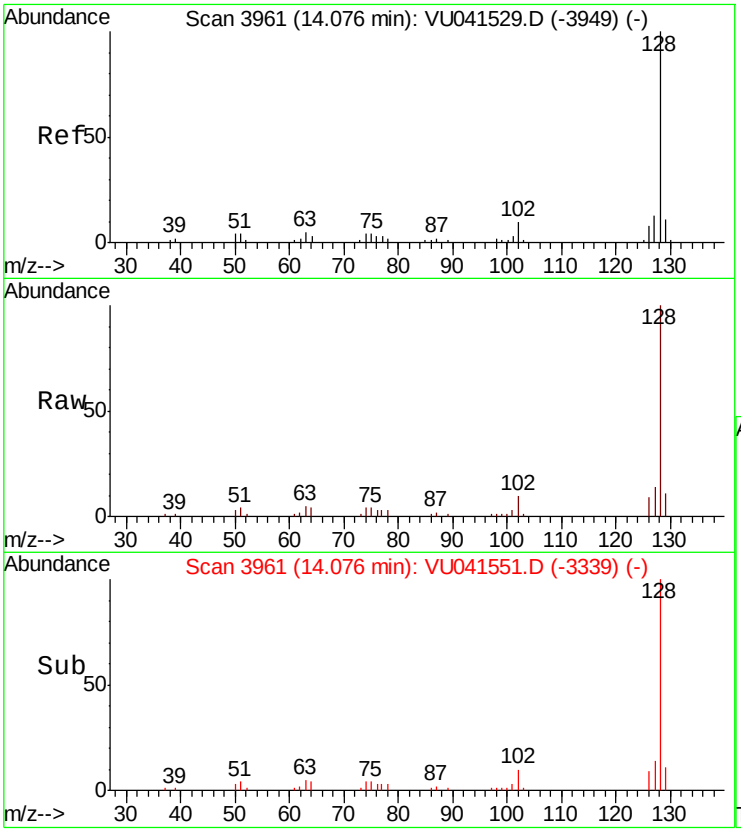




#68
1,2,4-trichlorobenzene
Concen: 4.738 ug/L
RT: 13.83 min Scan# 3885
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:180 Resp: 23172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.5 | 77.8 | 116.8 |
| 145 | 31.9 | 26.4 | 39.6 |



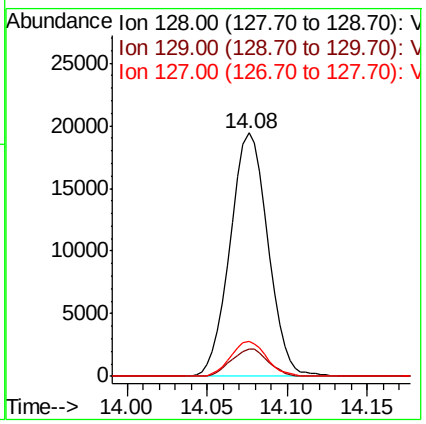


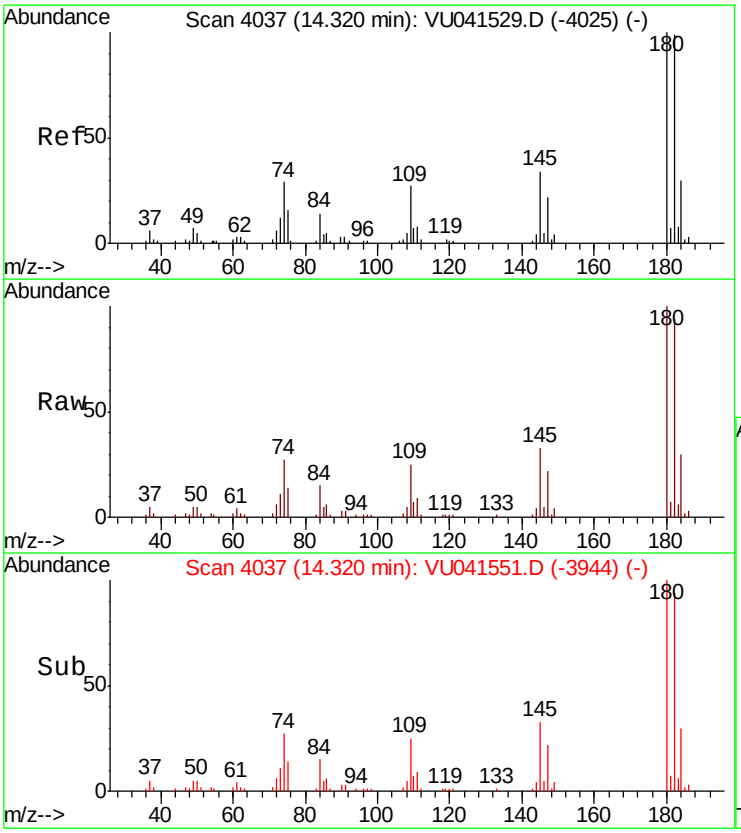

#69
Naphthalene
Concen: 4.068 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00510

Tgt Ion:128 Resp: 31259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.6 | 12.8 |
| 127 | 13.4 | 10.9 | 16.3 |




#70
1,2,3-Trichlorobenzene
Concen: 5.155 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. 0.00 min
Lab File: VU041551.D
Acq: 10 Dec 2020 21:18

Tgt Ion:180 Resp: 22313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 79.1 | 118.7 |
| 145 | 33.8 | 27.8 | 41.8 |