Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112122\
Data File : VU052003.D
Acq On : 21 Nov 2022 18:29
Operator : JC/MD
Sample : N5716-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Quant Time: Nov 22 01:05:17 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112122WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Nov 22 01:03:12 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Difluorobenzene | 6.247 | 114 | 516864 | 50.000 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.417 | 117 | 510440 | 50.000 | ug/L | 0.00 |
| 58) 1,4-Dichlorobenzene-d4 | 11.809 | 152 | 240233 | 50.000 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) Vinyl Chloride-d3 | 1.600 | 65 | 213679 | 47.707 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 95.420% | | | |
| 7) Chloroethane-d5 | 1.896 | 69 | 171612 | 48.379 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 96.760% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.562 | 63 | 245915 | 37.040 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 74.080% | | | |
| 21) 2-Butanone-d5 | 4.616 | 46 | 248725 | 92.410 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 92.410% | | | |
| 24) Chloroform-d | 5.060 | 84 | 327799 | 44.668 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 89.340% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.700 | 65 | 205591 | 46.580 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 93.160% | | | |
| 32) Benzene-d6 | 5.722 | 84 | 728277 | 47.867 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 95.740% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.687 | 67 | 229043 | 46.860 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 93.720% | | | |
| 41) Toluene-d8 | 7.896 | 98 | 681199 | 50.112 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.220% | | | |
| 43) trans-1,3-Dichloroprop... | 8.176 | 79 | 96198 | 46.233 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 92.460% | | | |
| 47) 2-Hexanone-d5 | 8.632 | 63 | 191819 | 100.602 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 100.600% | | | |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754 | 84 | 363249 | 46.975 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 93.960% | | | |
| 66) 1,2-Dichlorobenzene-d4 | 12.192 | 152 | 245594 | 49.436 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.880% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.385 | 85 | 72249 | 26.039 | ug/L | 99 |
| 3) Chloromethane | 1.523 | 50 | 199819 | 50.252 | ug/L | 100 |
| 6) Bromomethane | 1.832 | 94 | 64241 | 31.349 | ug/L | 98 |
| 9) Trichlorofluoromethane | 2.131 | 101 | 160002 | 32.783 | ug/L | 99 |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578 | 101 | 144325 | 46.055 | ug/L | 99 |
| 13) Acetone | 2.620 | 43 | 1127894 | 458.728 | ug/L | 99 |
| 15) Methyl Acetate | 2.941 | 43 | 429031 | 109.297 | ug/L | 100 |
| 16) Methylene chloride | 3.044 | 84 | 119762 | 26.274 | ug/L | 97 |
| 18) Methyl tert-butyl Ether | 3.359 | 73 | 1226613 | 118.592 | ug/L | 100 |
| 22) 2-Butanone | 4.697 | 43 | 189231 | 61.727 | ug/L | 99 |
| 27) 1,2-Dichloroethane | 5.790 | 62 | 417260 | 82.279 | ug/L | 98 |
| 29) Cyclohexane | 5.385 | 56 | 120425 | 26.903 | ug/L | 99 |
| 34) Trichloroethene | 6.539 | 95 | 163807 | 46.427 | ug/L | 99 |
| 35) Methylcyclohexane | 6.761 | 83 | 424293 | 87.743 | ug/L | 99 |
| 40) 4-Methyl-2-pentanone | 7.790 | 43 | 822546 | 153.087 | ug/L | 100 |
| 42) Toluene | 7.967 | 91 | 1158831 | 74.161 | ug/L | 99 |
| 46) Tetrachloroethene | 8.552 | 164 | 64202 | 24.120 | ug/L | 98 |
| 48) 2-Hexanone | 8.684 | 43 | 535451 | 120.425 | ug/L | 98 |
| 51) Chlorobenzene | 9.446 | 112 | 293616 | 28.559 | ug/L | 99 |

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112122\
Data File : VU052003.D
Acq On : 21 Nov 2022 18:29
Operator : JC/MD
Sample : N5716-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Quant Time: Nov 22 01:05:17 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112122WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Nov 22 01:03:12 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 52) Ethylbenzene | 9.568 | 91 | 573439 | 36.042 | ug/L | 98 |
| 53) m,p-Xylene | 9.687 | 106 | 659965 | 107.360 | ug/L | 99 |
| 54) o-Xylene | 10.098 | 106 | 315435 | 50.715 | ug/L | 98 |
| 55) Styrene | 10.111 | 104 | 803306 | 76.235 | ug/L | 97 |
| 61) Isopropylbenzene | 10.481 | 105 | 989383 | 67.495 | ug/L | 100 |
| 65) 1,4-Dichlorobenzene | 11.835 | 146 | 168744 | 23.306 | ug/L | 98 |
| 67) 1,2-Dichlorobenzene | 12.211 | 146 | 180396 | 24.229 | ug/L | 96 |
| 70) 1,2,4-trichlorobenzene | 13.838 | 180 | 86587 | 22.722 | ug/L | 100 |
| 72) 1,2,3-Trichlorobenzene | 14.327 | 180 | 279645 | 67.736 | ug/L | 99 |

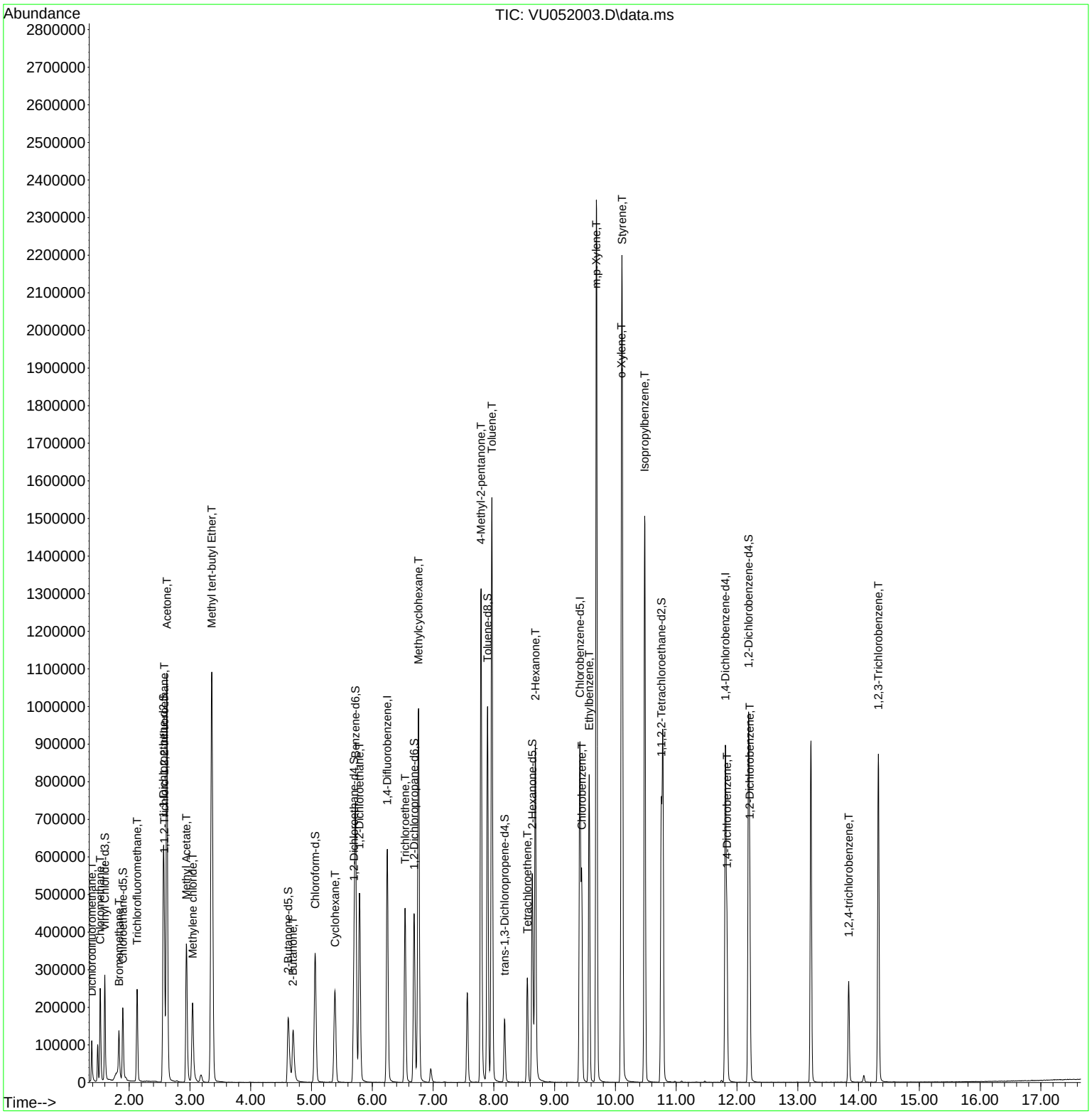
(#) = qualifier out of range (m) = manual integration (+) = signals summed

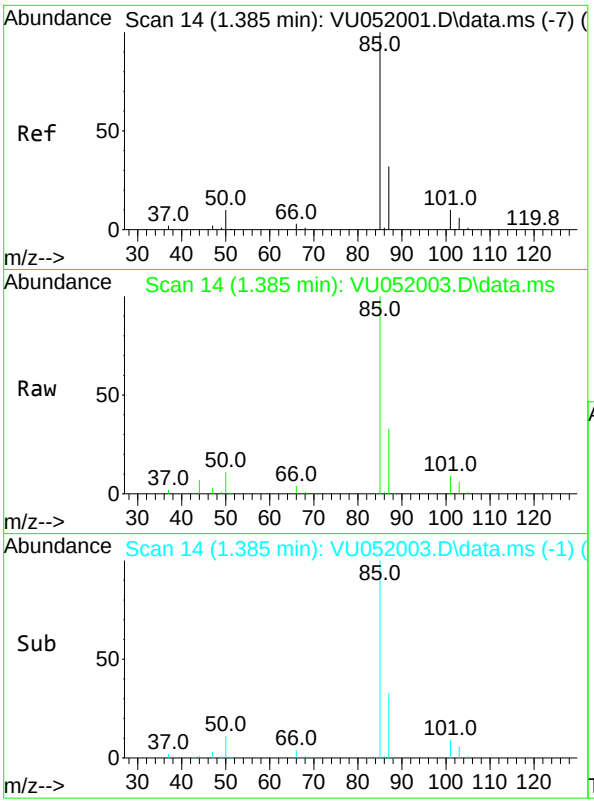
Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112122\
Data File : VU052003.D
Acq On : 21 Nov 2022 18:29
Operator : JC/MD
Sample : N5716-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Quant Time: Nov 22 01:05:17 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112122WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Nov 22 01:03:12 2022
Response via : Initial Calibration



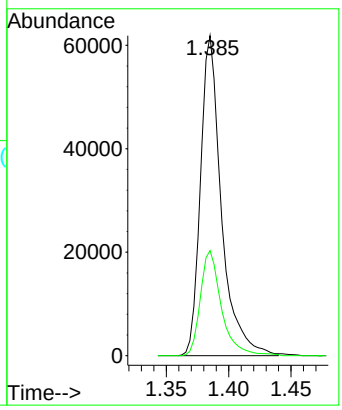


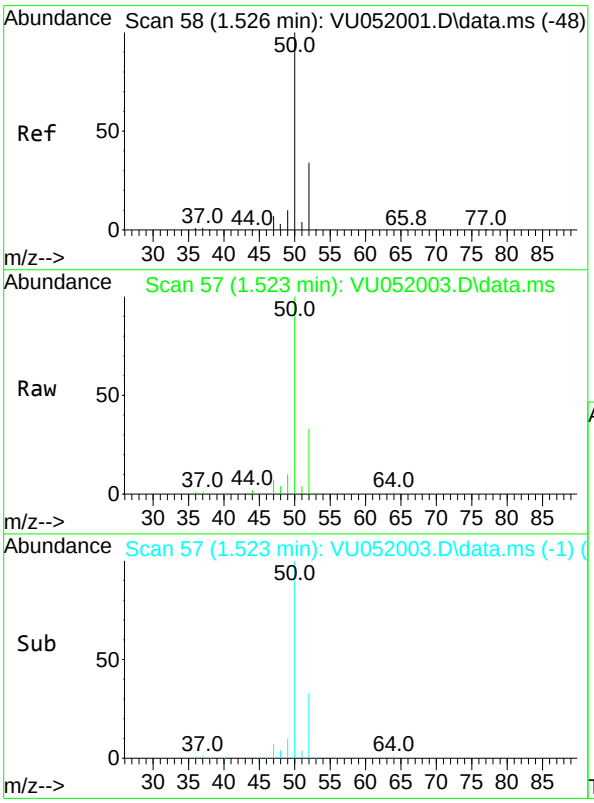

#2
Dichlorodifluoromethane
Concen: 26.039 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 85 Resp: 72249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 25.9 | 38.9 |

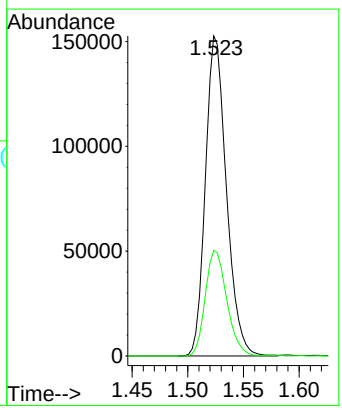


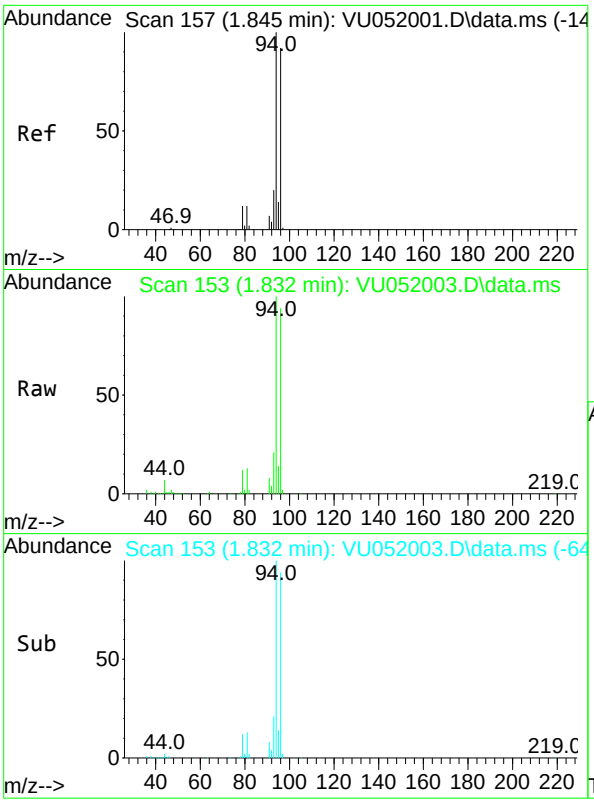




#3
Chloromethane
Concen: 50.252 ug/L
RT: 1.523 min Scan# 57
Delta R.T. -0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 50 Resp: 199819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 23.1 | 42.9 |



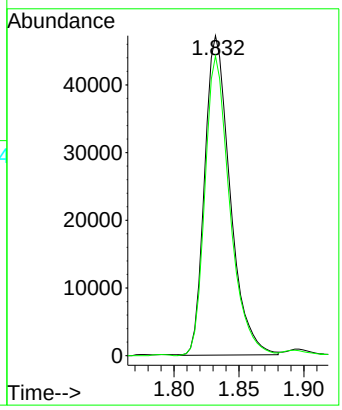


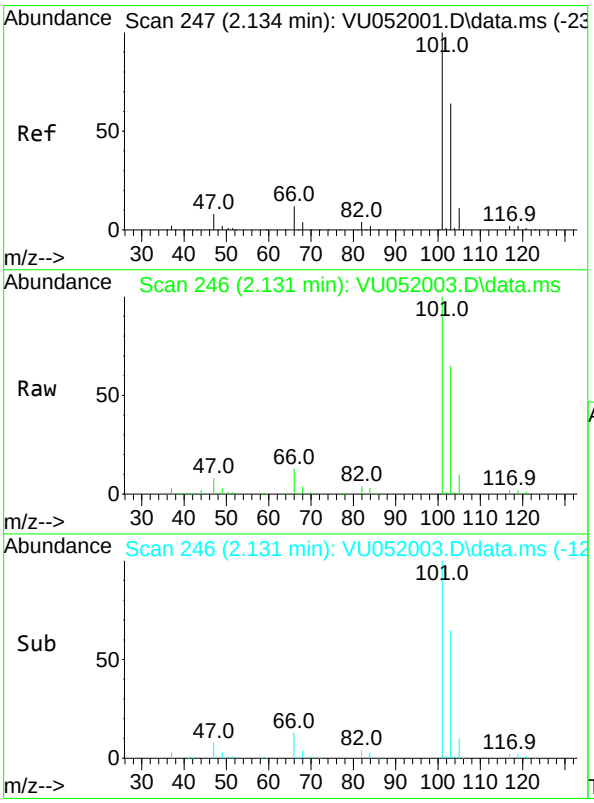

#6
Bromomethane
Concen: 31.349 ug/L
RT: 1.832 min Scan# 1
Delta R.T. -0.013 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 94 Resp: 64241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.7 | 66.8 | 124.0 |

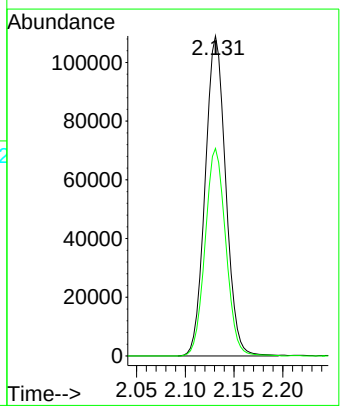


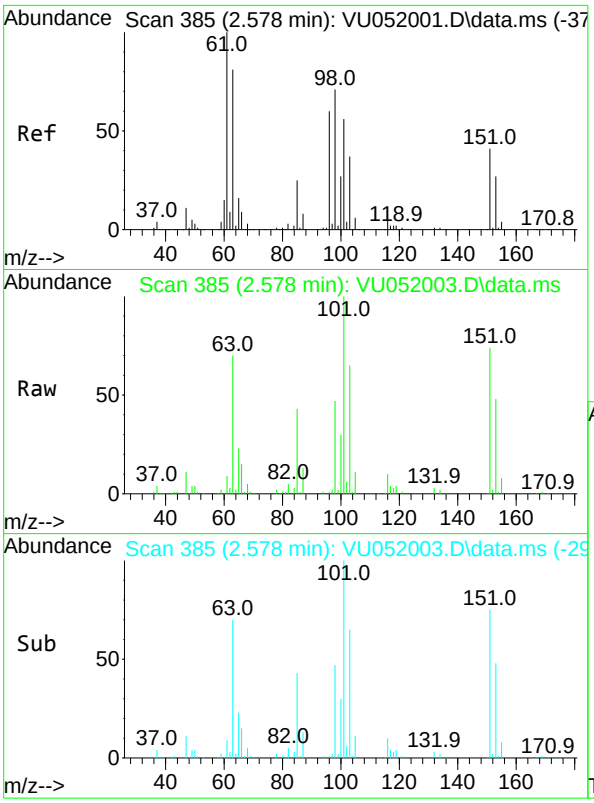




#9
Trichlorofluoromethane
Concen: 32.783 ug/L
RT: 2.131 min Scan# 246
Delta R.T. -0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion:101 Resp: 160002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.2 | 51.5 | 77.3 |



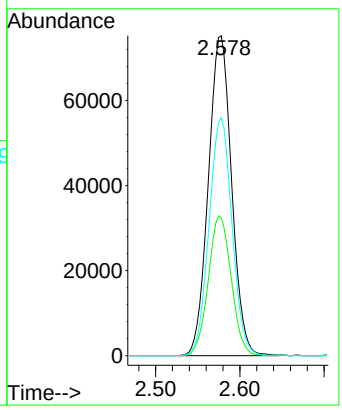


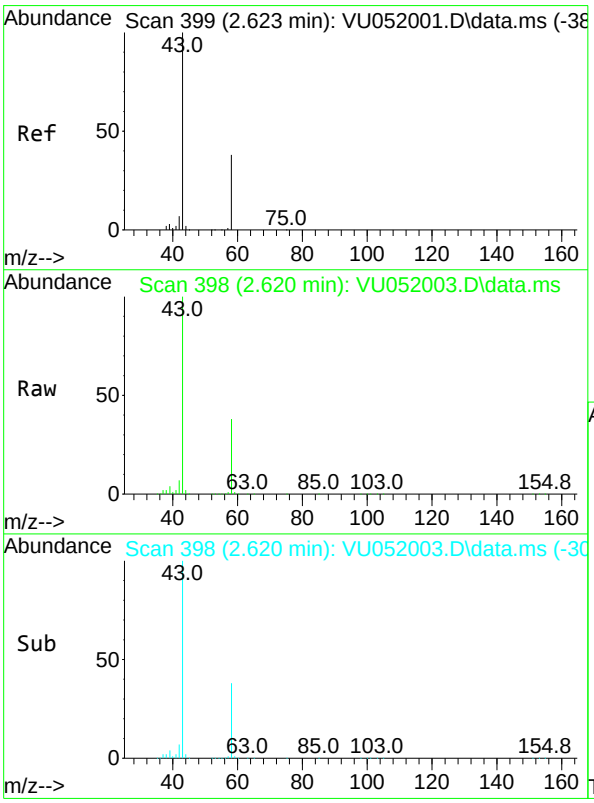

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 46.055 ug/L
RT: 2.578 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:101 Resp: 144325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.1 | 33.6 | 50.4 |
| 151 | 73.5 | 58.9 | 88.3 |

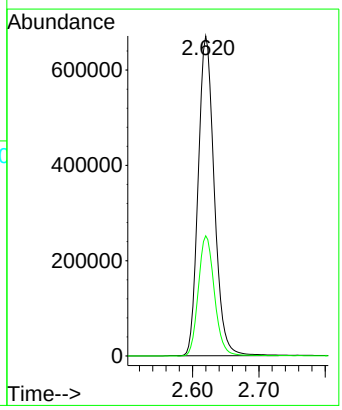


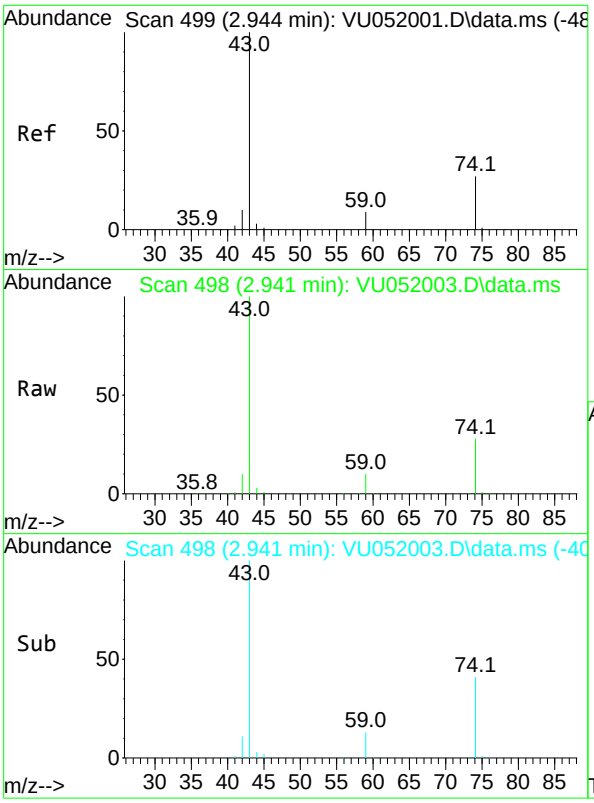




#13
Acetone
Concen: 458.728 ug/L
RT: 2.620 min Scan# 398
Delta R.T. -0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 43 Resp: 1127894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.6 | 0.0 | 76.6 |



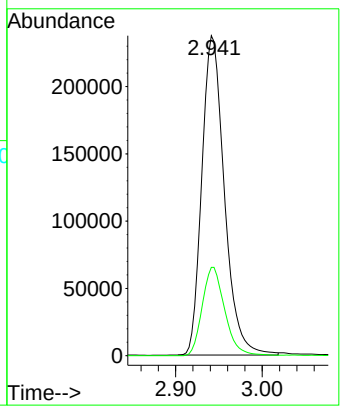


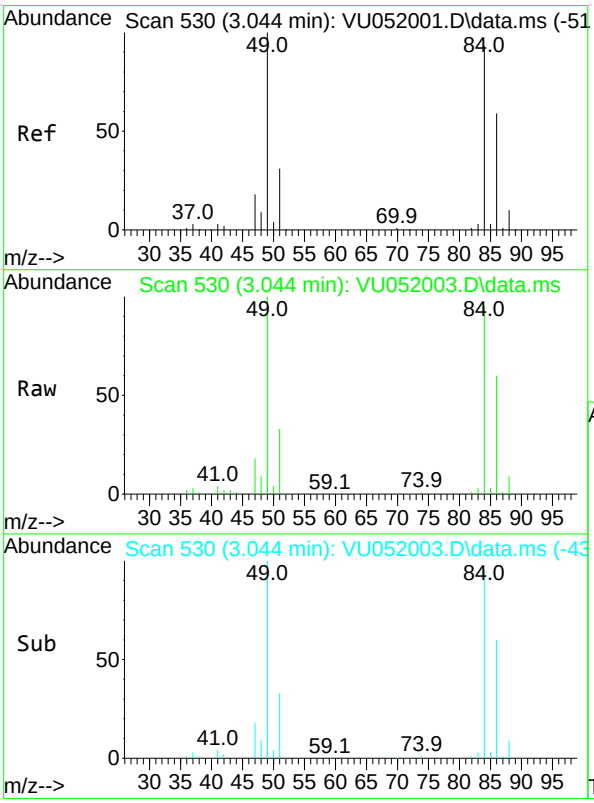

#15
Methyl Acetate
Concen: 109.297 ug/L
RT: 2.941 min Scan# 4
Delta R.T. -0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 43 Resp: 429031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.7 | 22.2 | 33.4 |

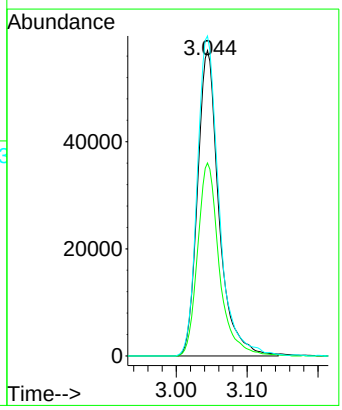


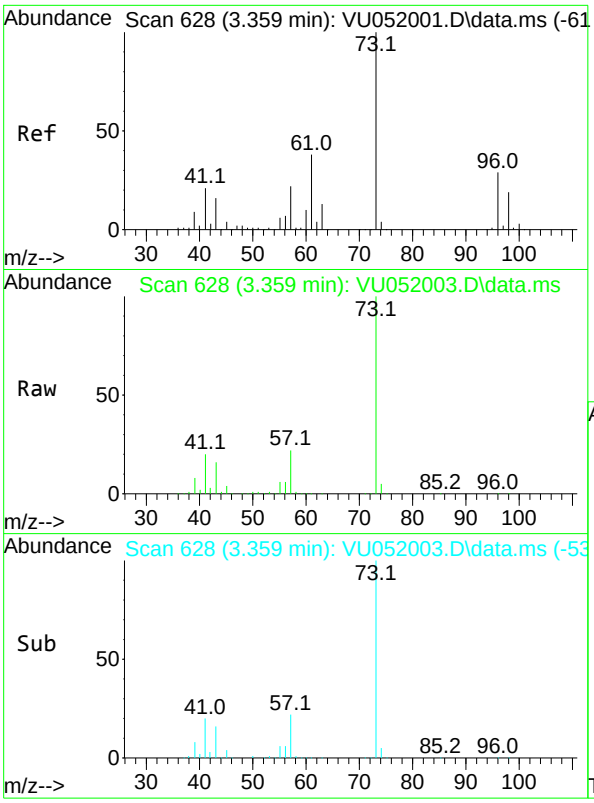




#16
Methylene chloride
Concen: 26.274 ug/L
RT: 3.044 min Scan# 530
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 84 Resp: 119762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 63.2 | 45.2 | 84.0 |
| 49 | 104.8 | 75.9 | 141.1 |



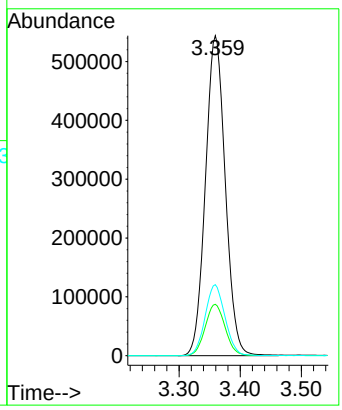


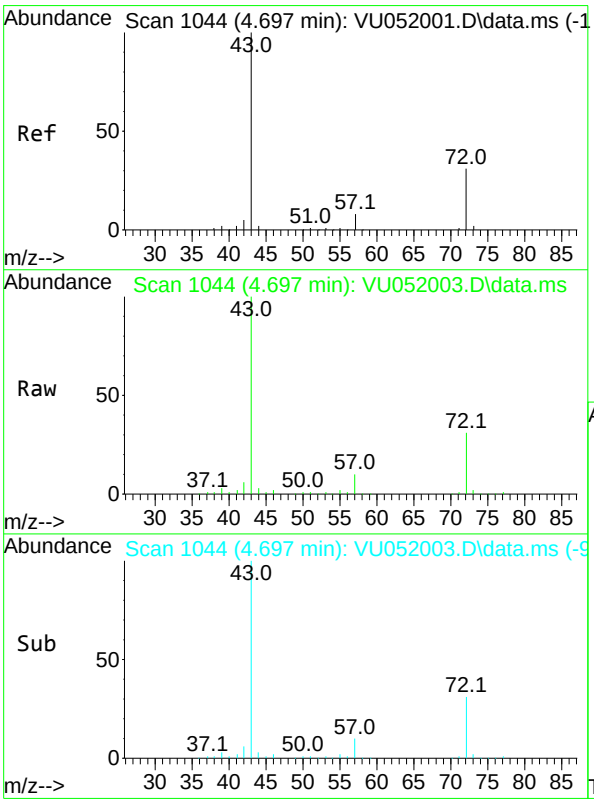

#18
Methyl tert-butyl Ether
Concen: 118.592 ug/L
RT: 3.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 73 Resp: 1226613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 16.1 | 13.1 | 19.7 |
| 57 | 22.3 | 17.8 | 26.6 |

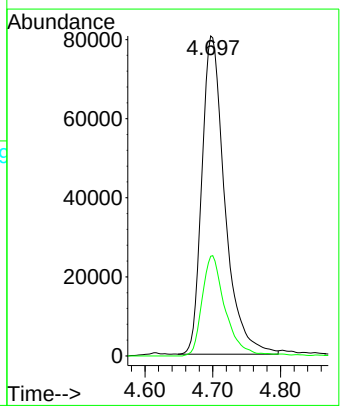


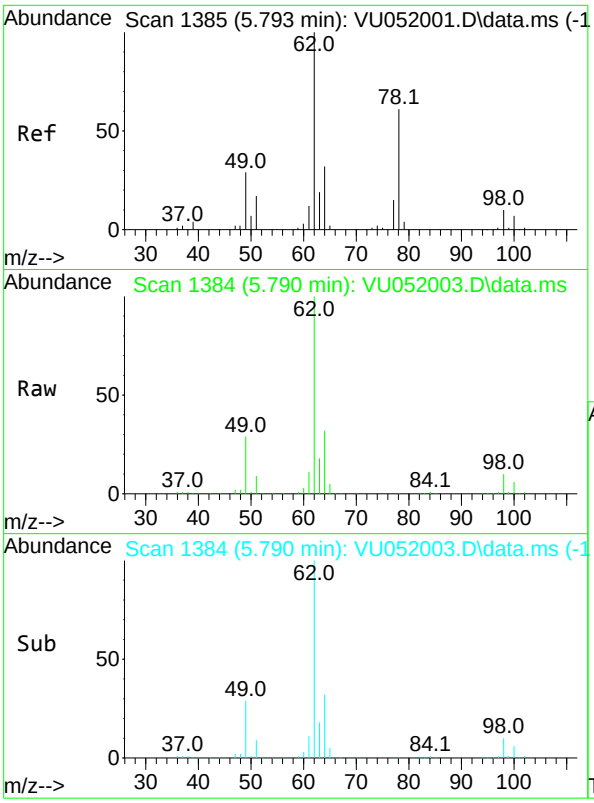




#22
2-Butanone
Concen: 61.727 ug/L
RT: 4.697 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 43 Resp: 189231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.4 | 15.9 | 47.7 |



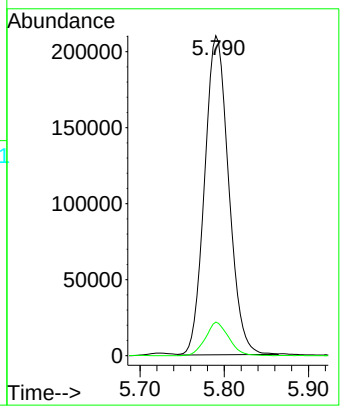


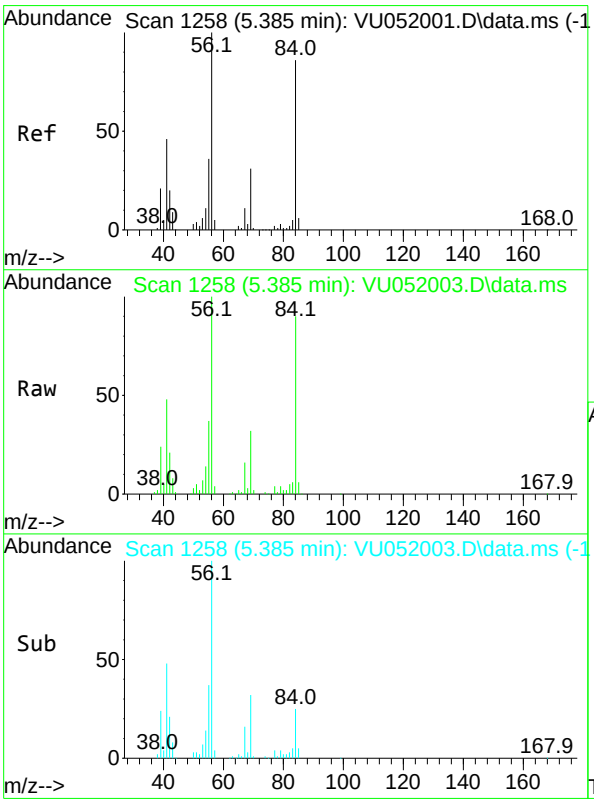

#27
1,2-Dichloroethane
Concen: 82.279 ug/L
RT: 5.790 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 62 Resp: 417260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.5 | 7.9 | 11.9 |

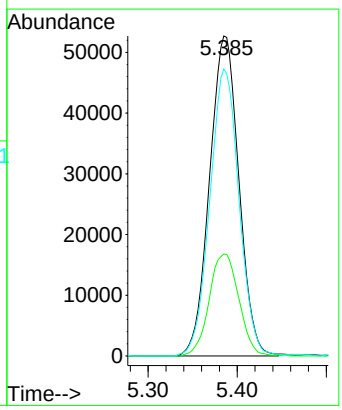


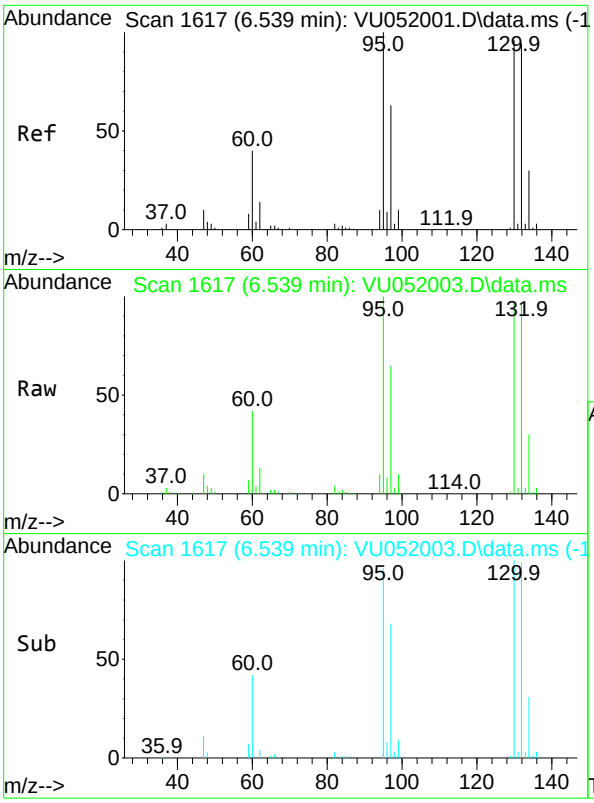




#29
Cyclohexane
Concen: 26.903 ug/L
RT: 5.385 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 56 Resp: 120425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.3 | 25.7 | 38.5 |
| 84 | 89.4 | 70.2 | 105.2 |



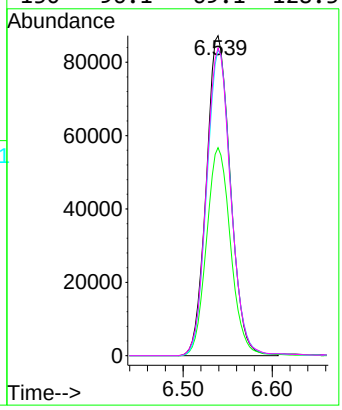


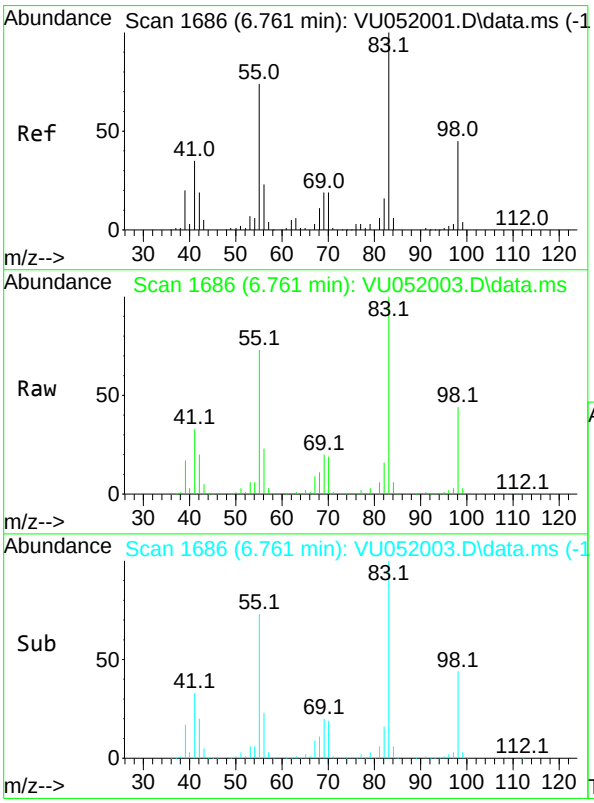

#34
Trichloroethene
Concen: 46.427 ug/L
RT: 6.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 95 Resp: 163807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 65.0 | 45.3 | 84.1 |
| 132 | 95.6 | 66.8 | 124.2 |
| 130 | 96.1 | 69.1 | 128.3 |

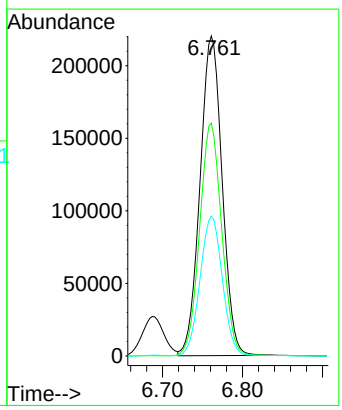


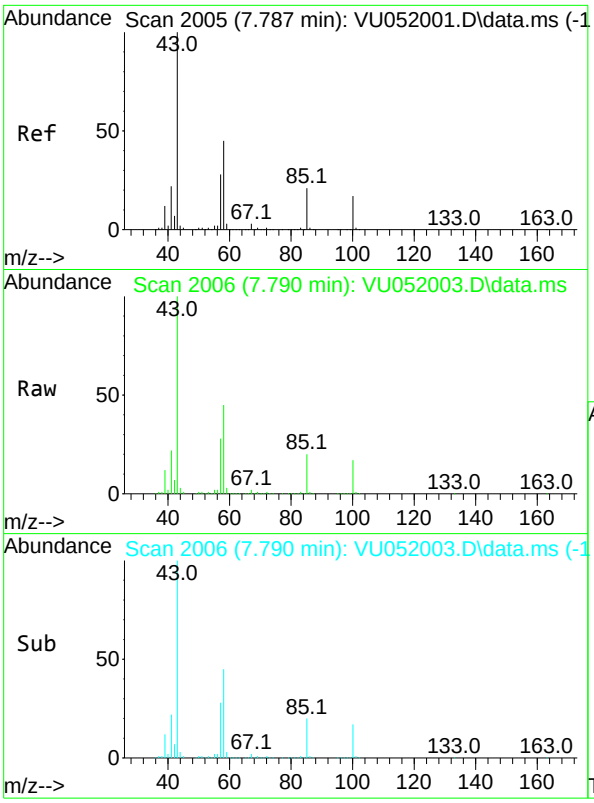




#35
Methylcyclohexane
Concen: 87.743 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 83 Resp: 424293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.5 | 59.0 | 88.6 |
| 98 | 44.1 | 36.0 | 54.0 |



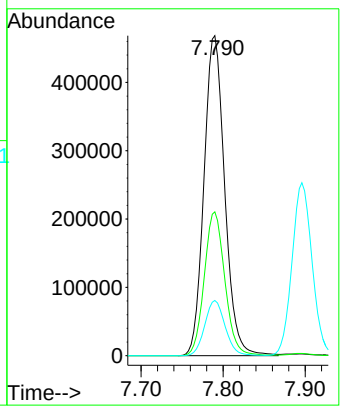


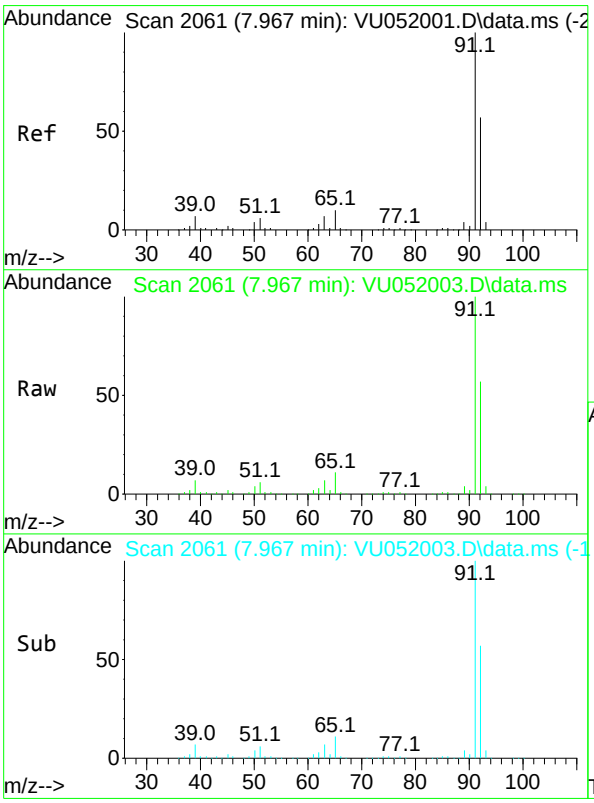

#40
4-Methyl-2-pentanone
Concen: 153.087 ug/L
RT: 7.790 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion: 43 Resp: 822546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.5 | 35.8 | 53.6 |
| 100 | 17.0 | 13.5 | 20.3 |

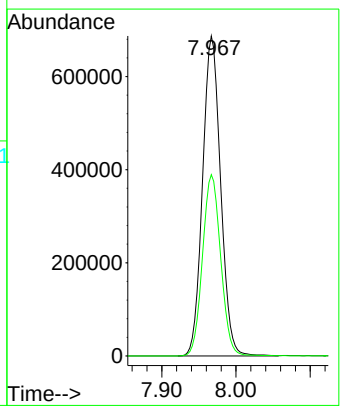


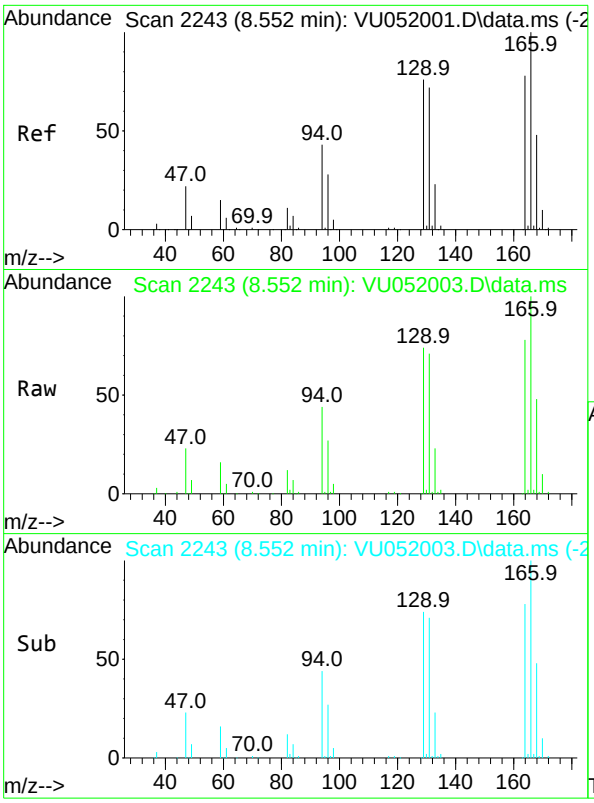




#42
Toluene
Concen: 74.161 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 91 Resp: 1158831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.7 | 39.2 | 72.8 |



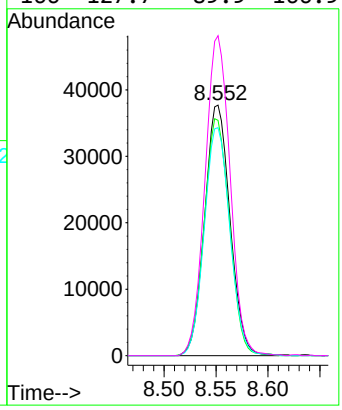


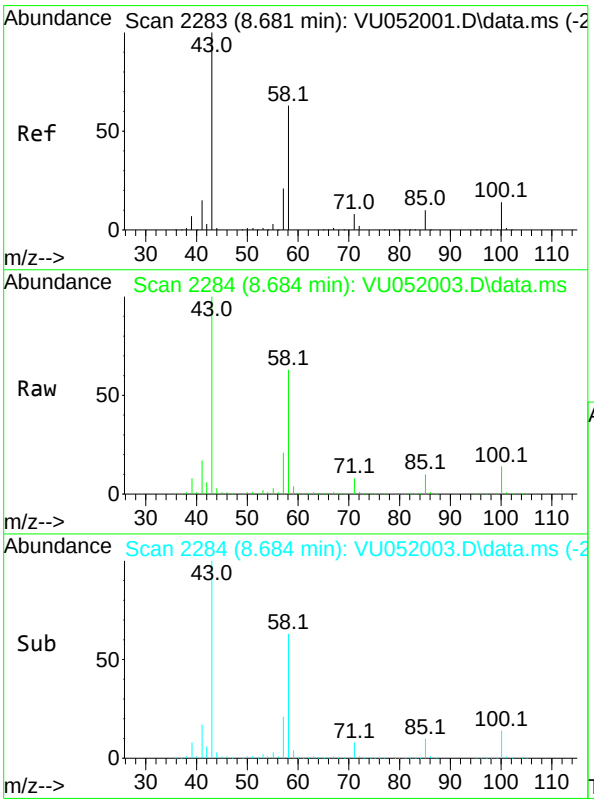

#46
Tetrachloroethene
Concen: 24.120 ug/L
RT: 8.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:164 Resp: 64202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 93.9 | 67.3 | 124.9 |
| 131 | 91.0 | 65.2 | 121.2 |
| 166 | 127.7 | 89.9 | 166.9 |

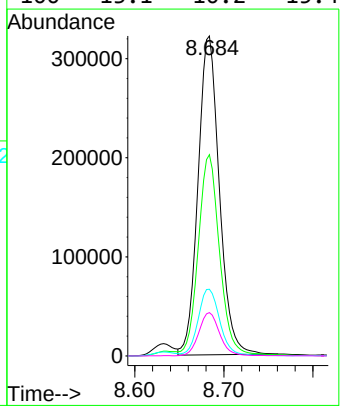


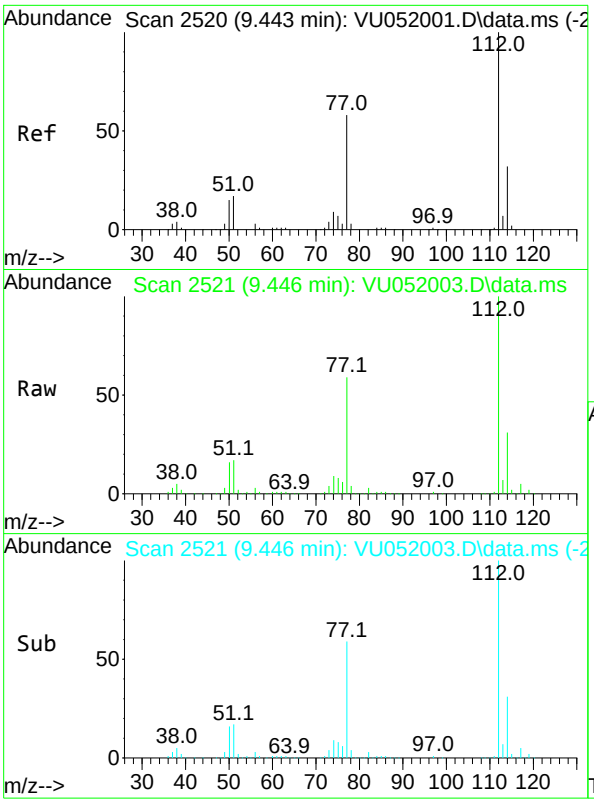




#48
2-Hexanone
Concen: 120.425 ug/L
RT: 8.684 min Scan# 2284
Delta R.T. 0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 43 Resp: 535451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 63.7 | 49.6 | 74.4 |
| 57 | 21.5 | 16.8 | 25.2 |
| 100 | 13.1 | 10.2 | 15.4 |



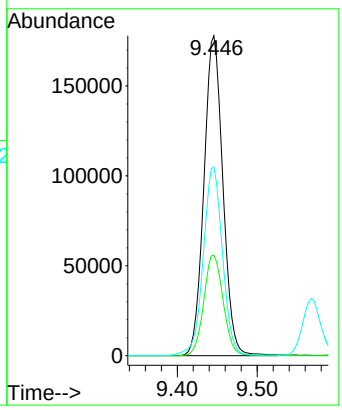


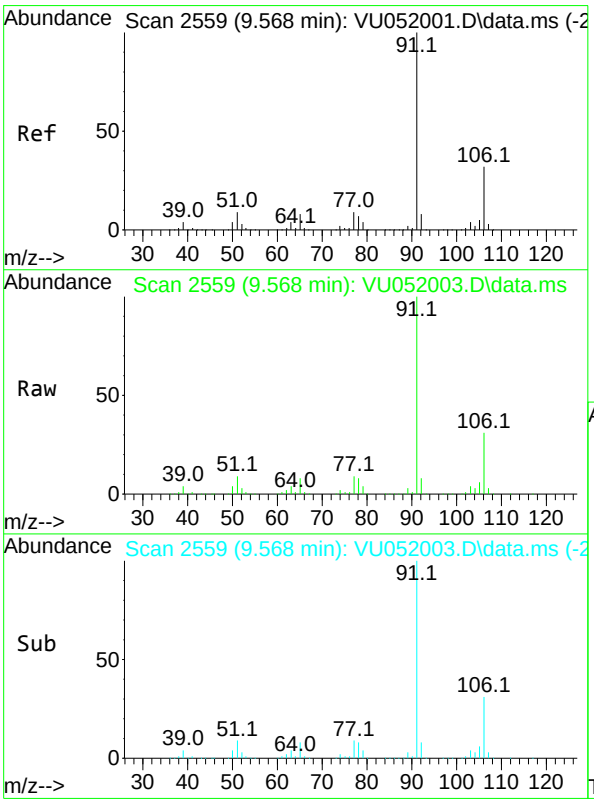

#51
Chlorobenzene
Concen: 28.559 ug/L
RT: 9.446 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:112 Resp: 293616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.4 | 22.2 | 41.2 |
| 77 | 58.9 | 46.5 | 69.7 |

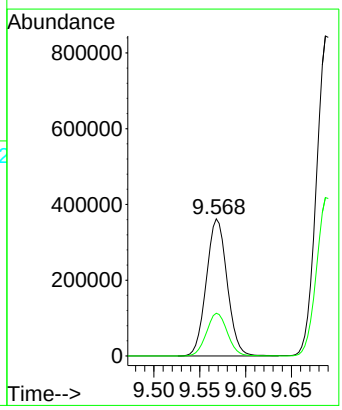


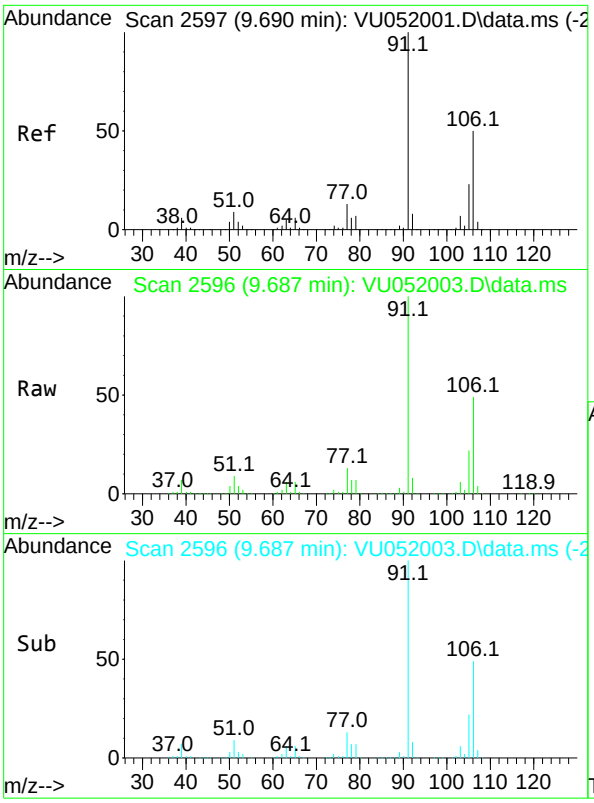




#52
Ethylbenzene
Concen: 36.042 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion: 91 Resp: 573439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 21.2 | 39.4 |



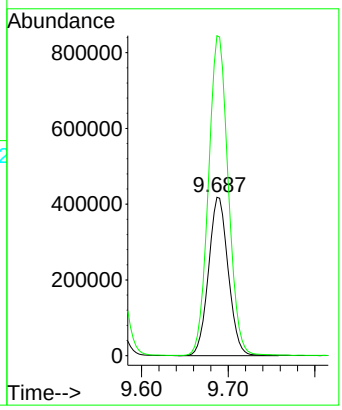


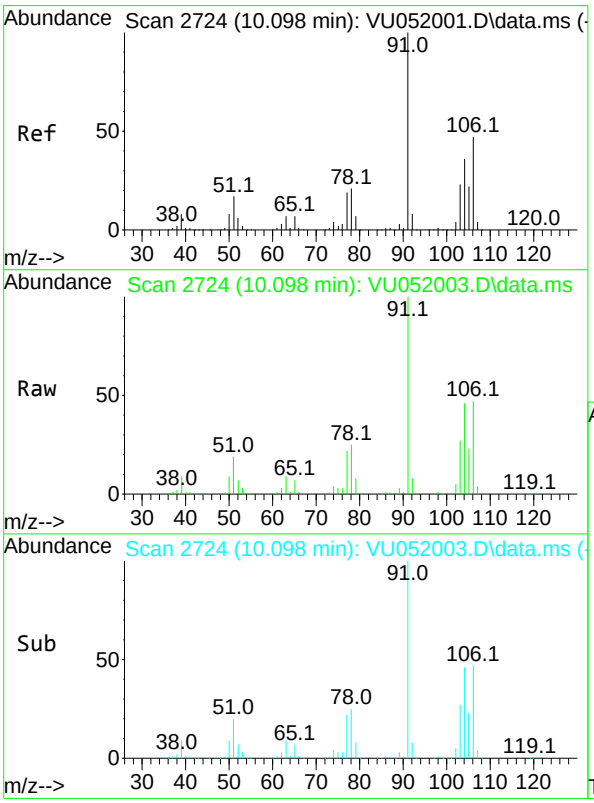

#53
m,p-Xylene
Concen: 107.360 ug/L
RT: 9.687 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:106 Resp: 659965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.1 | 140.3 | 260.6 |

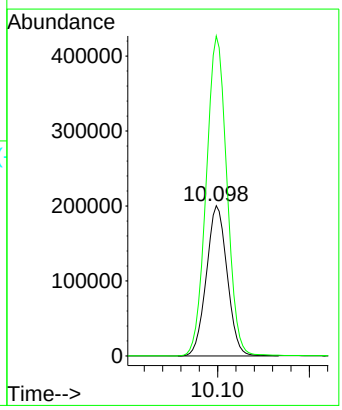


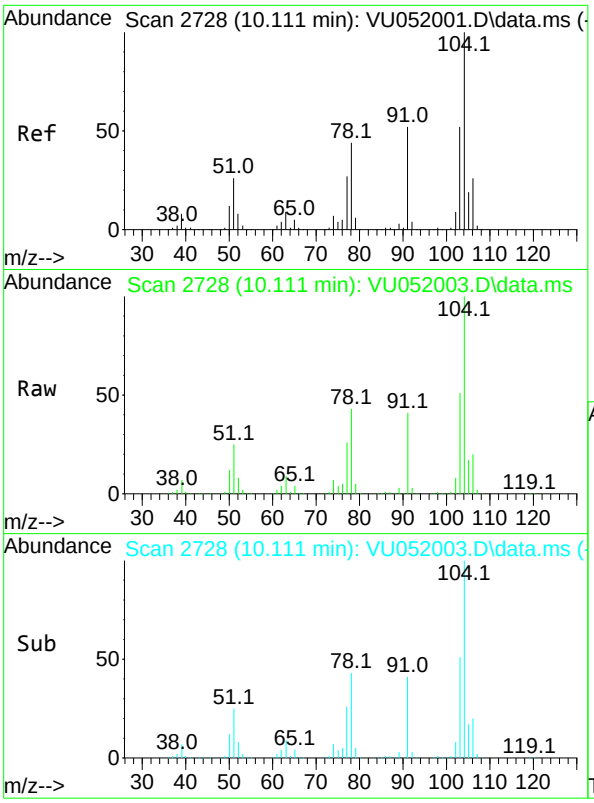




#54
o-Xylene
Concen: 50.715 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion:106 Resp: 315435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.0 | 146.7 | 272.4 |



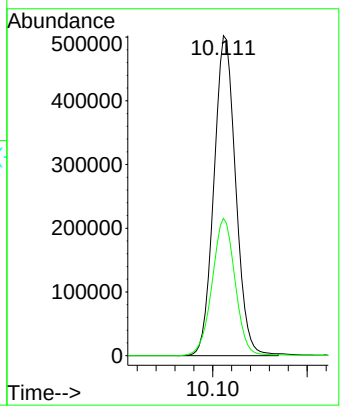


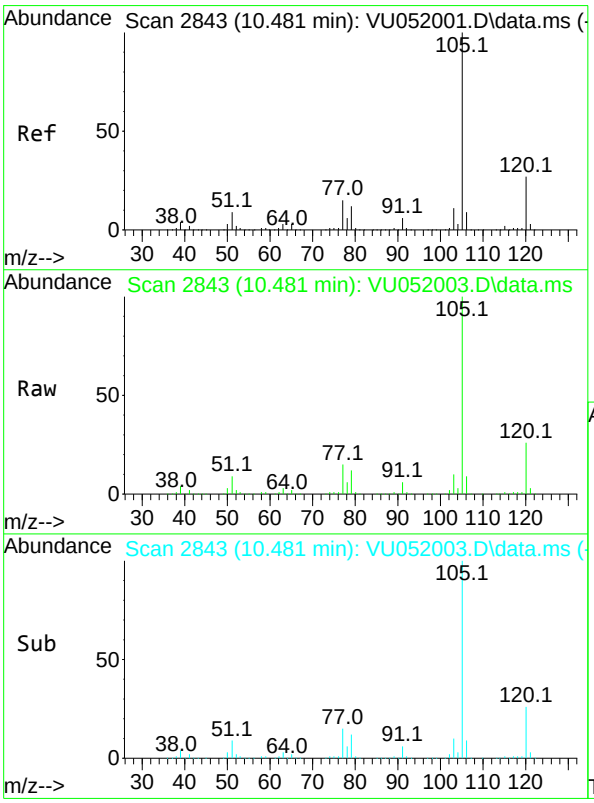

#55
Styrene
Concen: 76.235 ug/L
RT: 10.111 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:104 Resp: 803306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 42.9 | 31.2 | 58.0 |

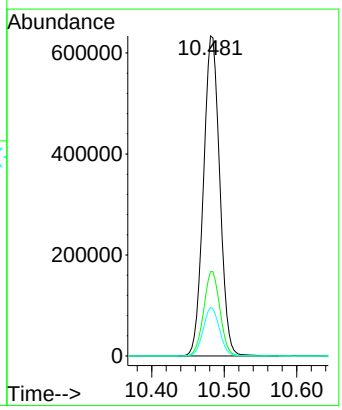


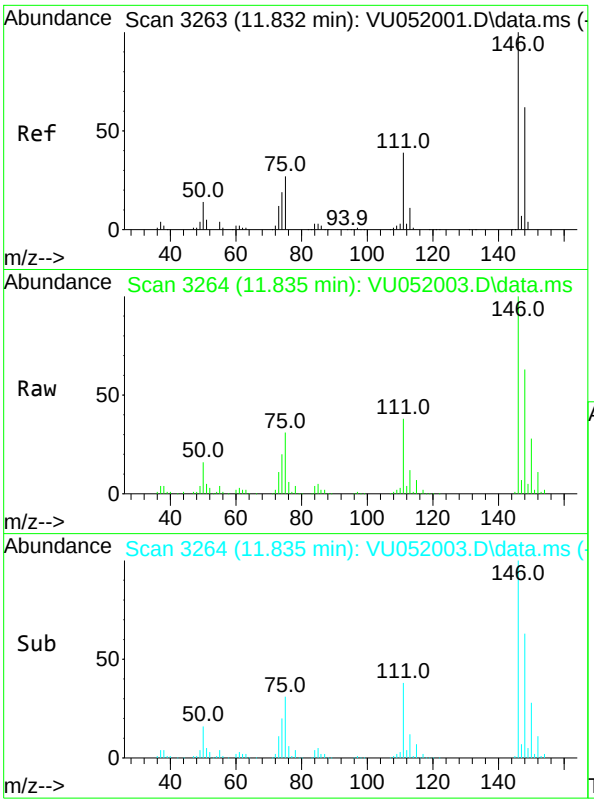




#61
Isopropylbenzene
Concen: 67.495 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion:105 Resp: 989383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 21.1 | 31.7 |
| 77 | 15.1 | 12.4 | 18.6 |



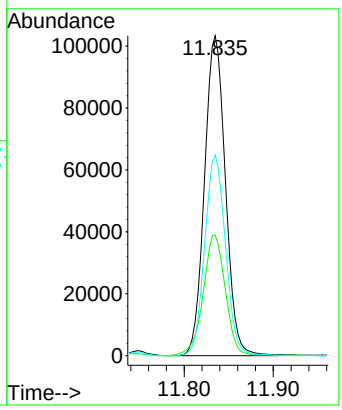


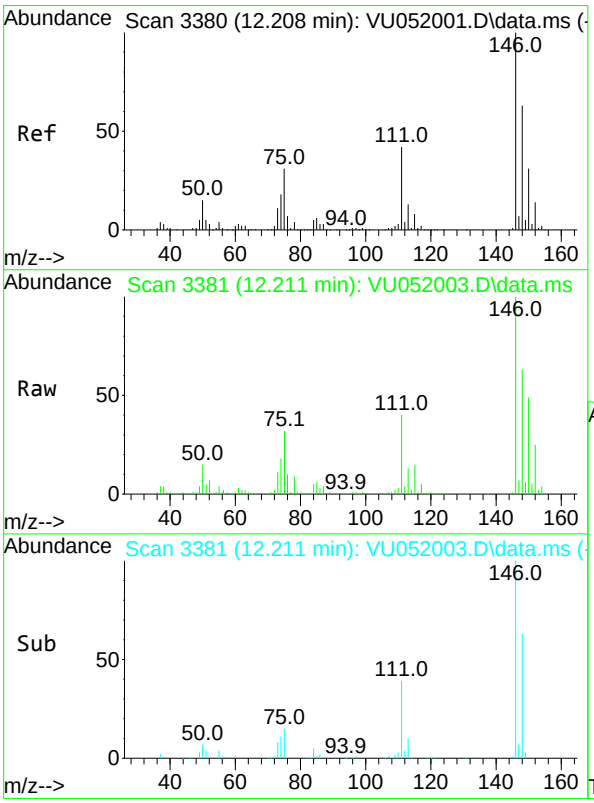

#65
1,4-Dichlorobenzene
Concen: 23.306 ug/L
RT: 11.835 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:146 Resp: 168744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.7 | 27.6 | 51.2 |
| 148 | 62.8 | 44.8 | 83.2 |

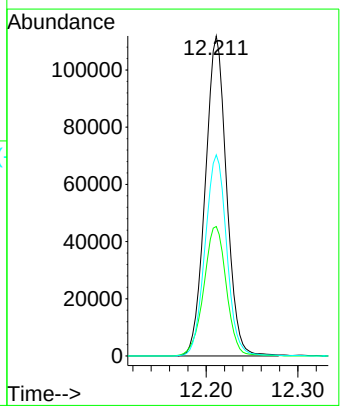


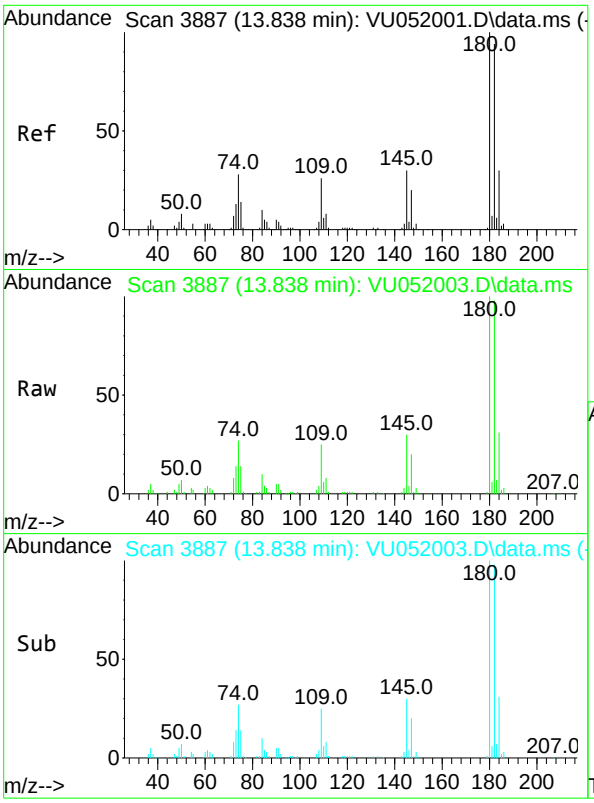




#67
1,2-Dichlorobenzene
Concen: 24.229 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.003 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion:146 Resp: 180396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 34.2 | 51.4 |
| 148 | 62.8 | 52.6 | 79.0 |



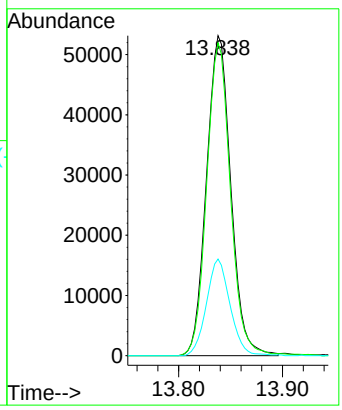


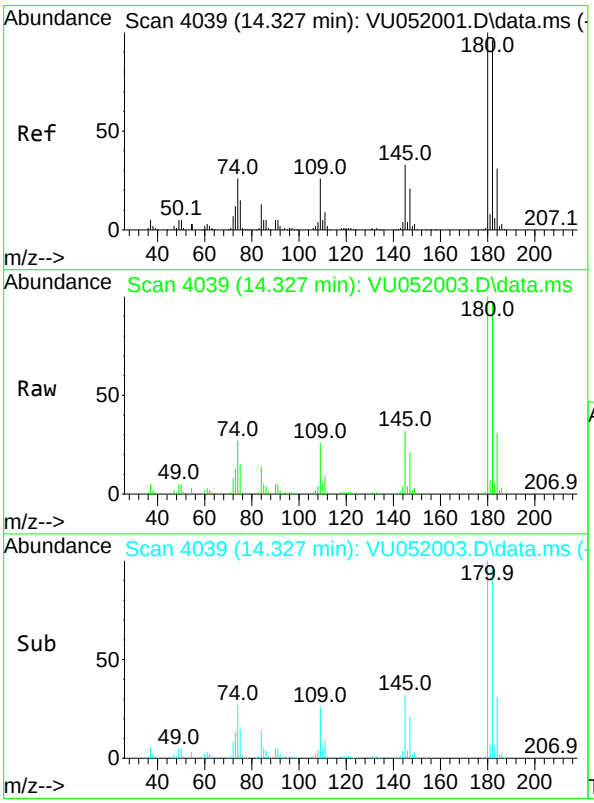

#70
1,2,4-trichlorobenzene
Concen: 22.722 ug/L
RT: 13.838 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

**Instrument :**
MSVOA_U
**ClientSampleId :**
A0B26

Tgt Ion:180 Resp: 86587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 75.4 | 113.2 |
| 145 | 29.2 | 23.4 | 35.0 |




#72
1,2,3-Trichlorobenzene
Concen: 67.736 ug/L
RT: 14.327 min Scan# 4039
Delta R.T. 0.000 min
Lab File: VU052003.D
Acq: 21 Nov 2022 18:29

Tgt Ion:180 Resp: 279645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.1 | 76.1 | 114.1 |
| 145 | 31.8 | 25.8 | 38.6 |