Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121223\
Data File : VU056793.D
Acq On : 12 Dec 2023 18:09
Operator : MD/SY
Sample : 05664-13
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Quant Time: Dec 13 00:34:53 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 13 00:30:00 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Difluorobenzene | 6.245 | 114 | 243743 | 5.000 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.412 | 117 | 240327 | 5.000 | ug/L | 0.00 |
| 58) 1,4-Dichlorobenzene-d4 | 11.807 | 152 | 103219 | 5.000 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) Vinyl Chloride-d3 | 1.595 | 65 | 88275 | 4.225 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 84.600% | | | |
| 7) Chloroethane-d5 | 1.911 | 69 | 70818 | 4.530 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 90.600% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.563 | 65 | 40376 | 4.517 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 90.400% | | | |
| 20) 2-Butanone-d5 | 4.624 | 46 | 221904 | 53.781 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 107.560% | | | |
| 24) Chloroform-d | 5.055 | 84 | 190313 | 4.810 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 96.200% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.695 | 65 | 94032 | 5.023 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 100.400% | | | |
| 32) Benzene-d6 | 5.721 | 84 | 372092 | 4.992 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 99.800% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.685 | 67 | 115921 | 4.968 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 99.400% | | | |
| 41) Toluene-d8 | 7.894 | 98 | 312554 | 4.691 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 93.800% | | | |
| 43) trans-1,3-Dichloroprop... | 8.177 | 79 | 42419 | 4.688 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 93.800% | | | |
| 46) 2-Hexanone-d5 | 8.631 | 63 | 171881 | 50.367 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 100.740% | | | |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84 | 85192 | 5.047 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 101.000% | | | |
| 66) 1,2-Dichlorobenzene-d4 | 12.187 | 152 | 106462 | 5.247 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 105.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl chloride | 1.602 | 62 | 264627 | 10.611 | ug/L | 98 |
| 18) trans-1,2-Dichloroethene | 3.351 | 96 | 3766 | 0.188 | ug/L | 80 |
| 22) cis-1,2-Dichloroethene | 4.656 | 96 | 672609 | 30.815 | ug/L | 99 |
| 25) Chloroform | 5.084 | 83 | 33320 | 0.824 | ug/L | 93 |
| 30) Cyclohexane | 5.380 | 56 | 13332 | 0.409 | ug/L | 98 |
| 33) Benzene | 5.769 | 78 | 104239 | 1.234 | ug/L | 100 |
| 34) Trichloroethene | 6.537 | 95 | 61991 | 2.676 | ug/L | 98 |
| 35) Methylcyclohexane | 6.759 | 83 | 11011 | 0.322 | ug/L | 92 |
| 40) 4-Methyl-2-pentanone | 7.788 | 43 | 52909 | 5.157 | ug/L | 98 |
| 42) Toluene | 7.965 | 91 | 146756 | 1.679 | ug/L | 99 |
| 51) Chlorobenzene | 9.444 | 112 | 17903 | 0.321 | ug/L | 96 |
| 52) Ethylbenzene | 9.569 | 91 | 23412 | 0.243 | ug/L | 96 |
| 53) m,p-Xylene | 9.692 | 106 | 5703 | 0.159 | ug/L | 97 |
| 63) 1,2,4-Trimethylbenzene | 11.466 | 105 | 12161 | 0.184 | ug/L | 97 |
| 65) 1,4-Dichlorobenzene | 11.833 | 146 | 9058 | 0.238 | ug/L | 94 |

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

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Quant Time: Dec 13 00:34:53 2023
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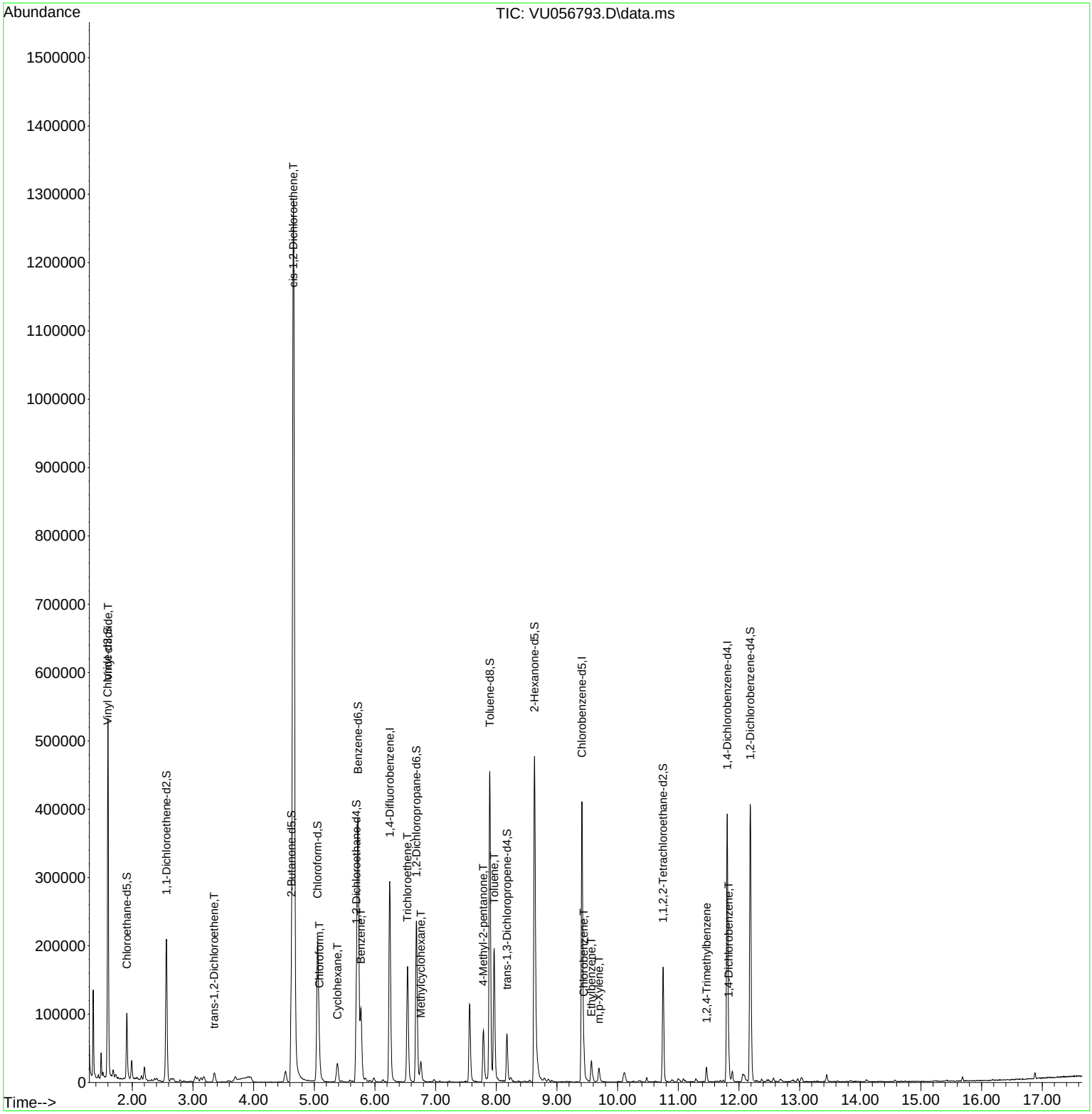
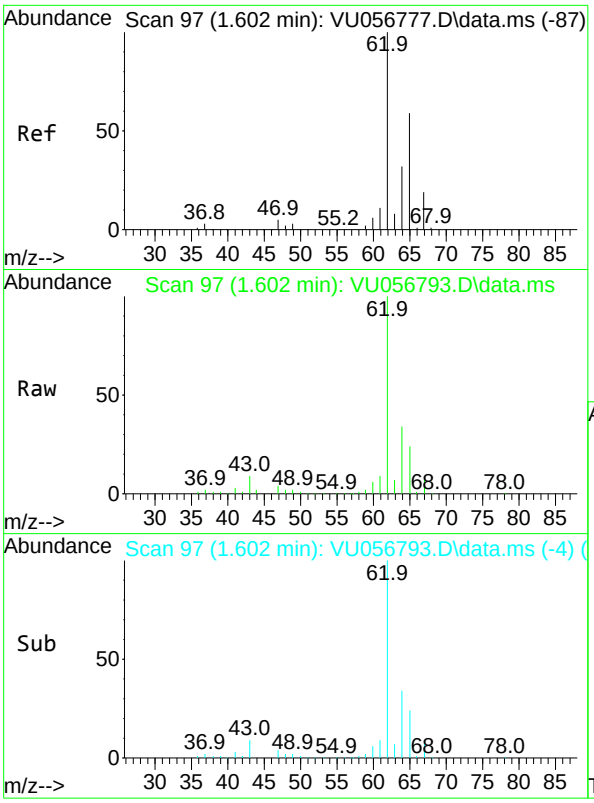
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 13 00:30:00 2023
Response via : Initial Calibration



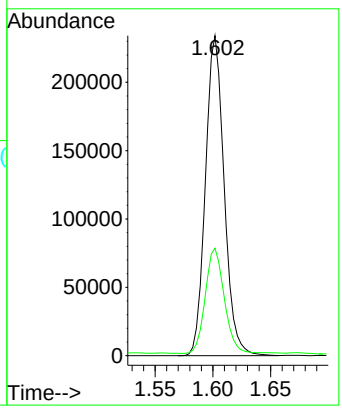


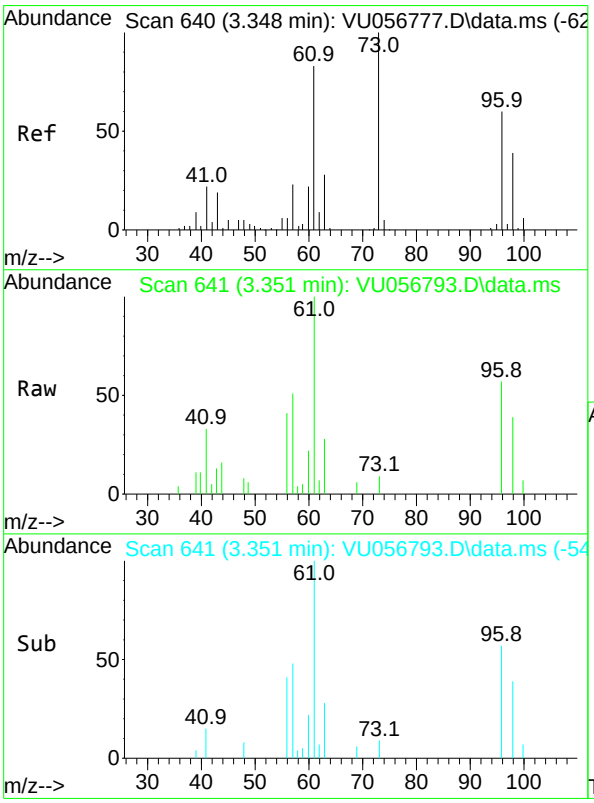

#5
Vinyl chloride
Concen: 10.611 ug/L
RT: 1.602 min Scan# 9
Delta R.T. -0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion: 62 Resp: 264627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.6 | 22.8 | 42.4 |

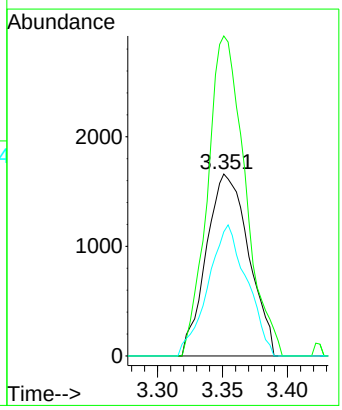


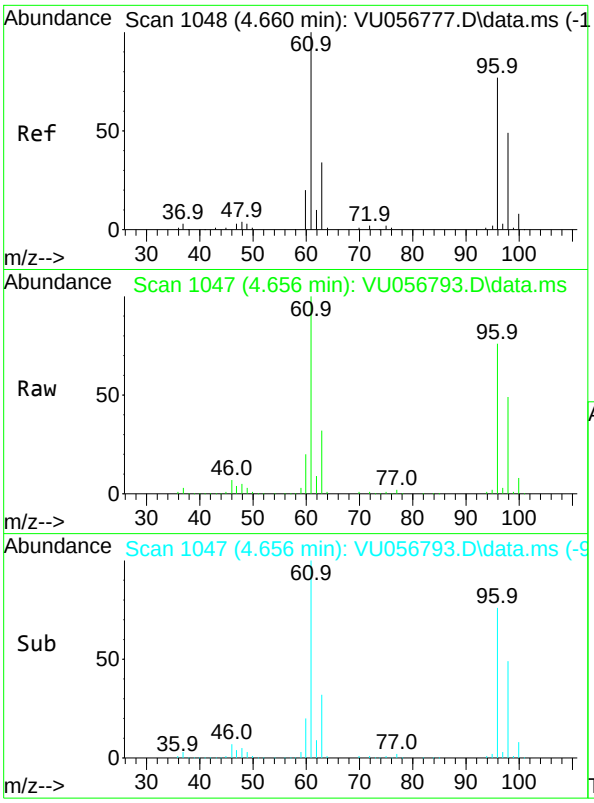




#18
trans-1,2-Dichloroethene
Concen: 0.188 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion: 96 Resp: 3766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 175.9 | 101.8 | 189.0 |
| 98 | 68.3 | 43.0 | 79.8 |



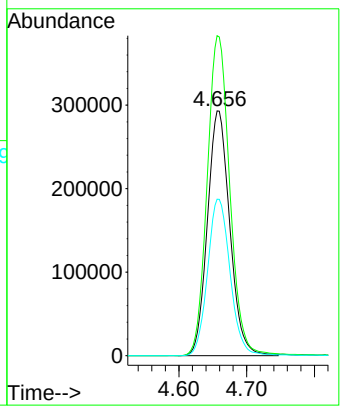


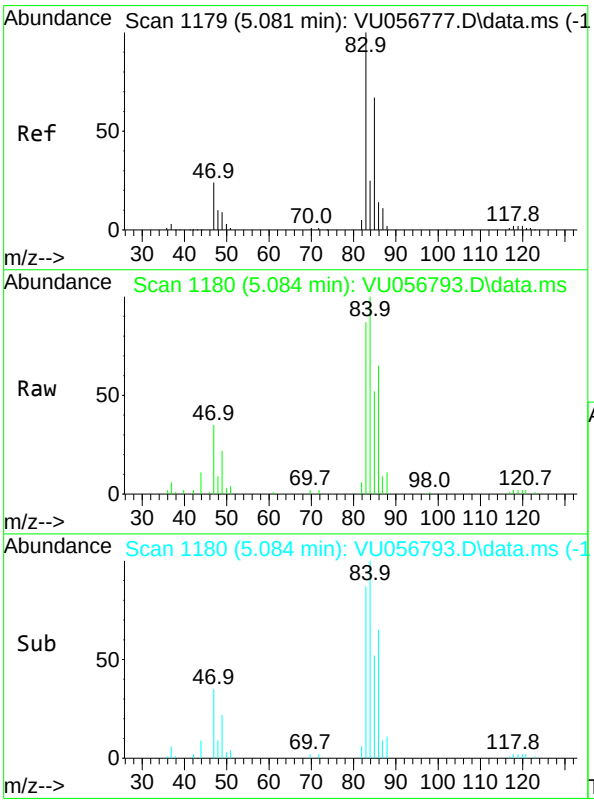

#22
cis-1,2-Dichloroethene
Concen: 30.815 ug/L
RT: 4.656 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion: 96 Resp: 672609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.7 | 91.3 | 169.6 |
| 98 | 64.0 | 44.2 | 82.0 |

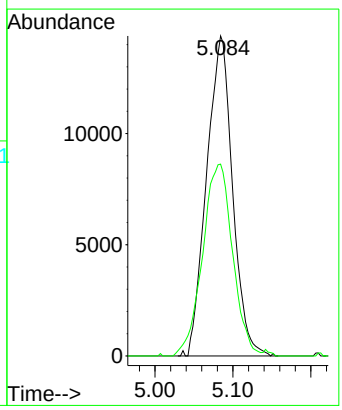


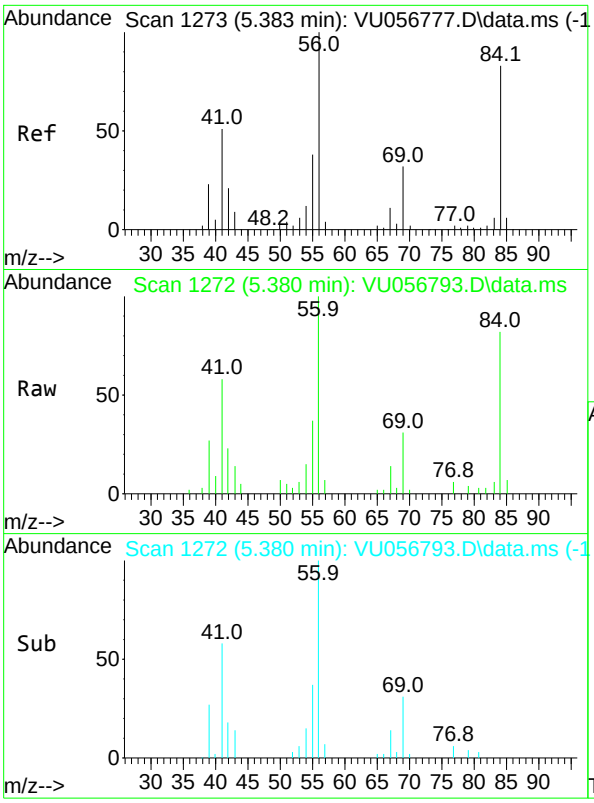




#25
Chloroform
Concen: 0.824 ug/L
RT: 5.084 min Scan# 1180
Delta R.T. 0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion: 83 Resp: 33320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.0 | 45.8 | 85.0 |



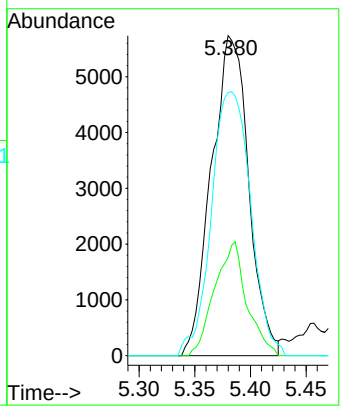


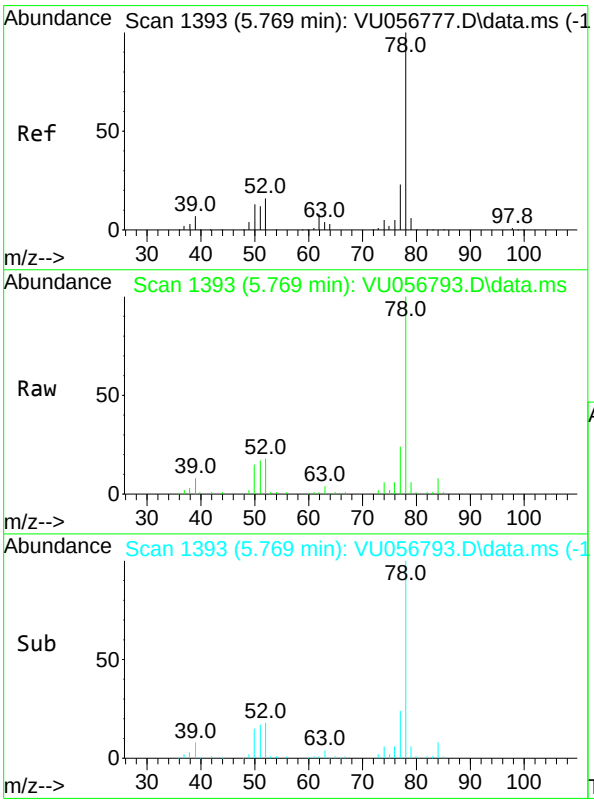

#30
Cyclohexane
Concen: 0.409 ug/L
RT: 5.380 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion: 56 Resp: 13332

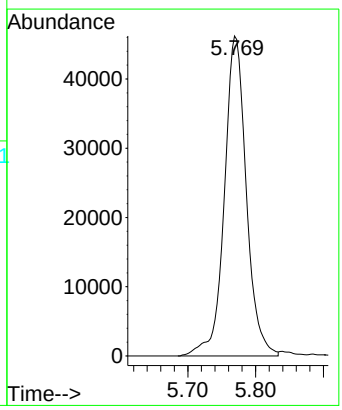
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.7 | 24.9 | 37.3 |
| 84 | 87.1 | 67.6 | 101.4 |

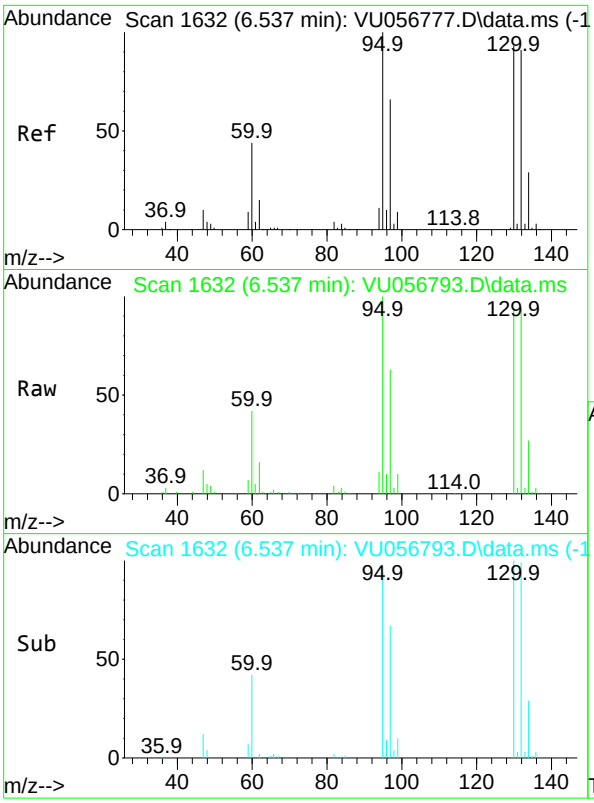



#33
Benzene
Concen: 1.234 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. -0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion: 78 Resp: 104239



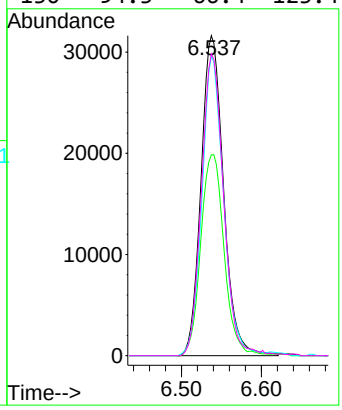


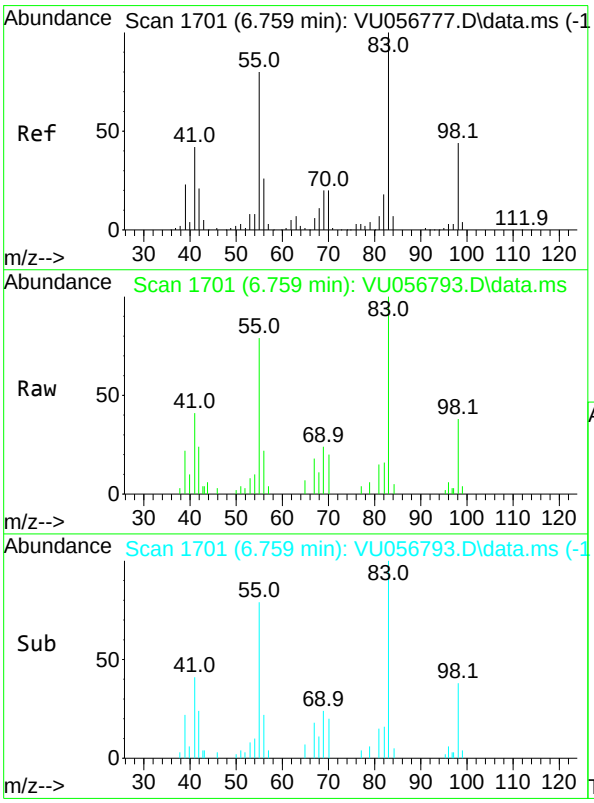

#34
Trichloroethene
Concen: 2.676 ug/L
RT: 6.537 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion: 95 Resp: 61991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 62.7 | 46.1 | 85.5 |
| 132 | 93.7 | 63.6 | 118.0 |
| 130 | 94.3 | 66.4 | 123.4 |

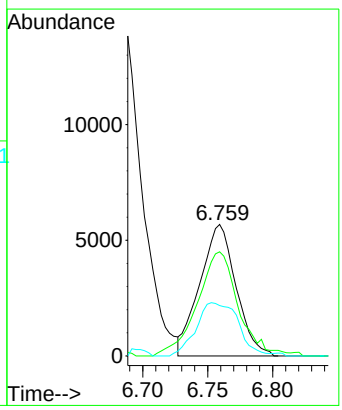


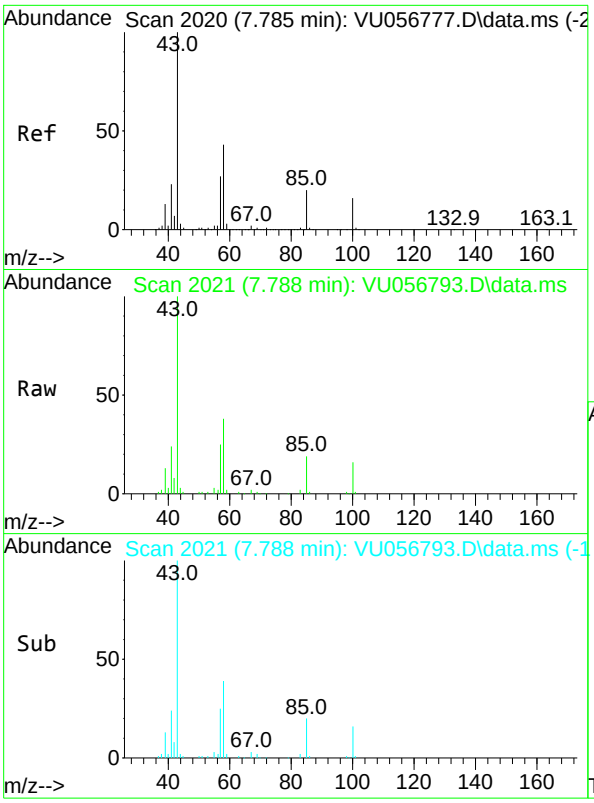




#35
Methylcyclohexane
Concen: 0.322 ug/L
RT: 6.759 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion: 83 Resp: 11011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 90.1 | 64.6 | 97.0 |
| 98 | 47.1 | 36.1 | 54.1 |



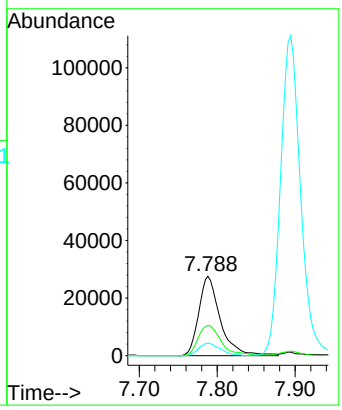


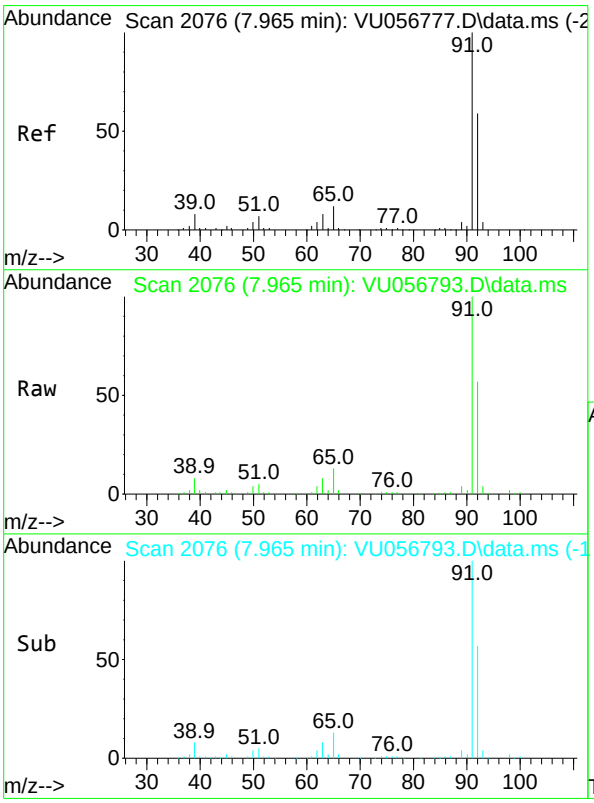

#40
4-Methyl-2-pentanone
Concen: 5.157 ug/L
RT: 7.788 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion: 43 Resp: 52909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.5 | 33.7 | 50.5 |
| 100 | 15.8 | 13.0 | 19.4 |

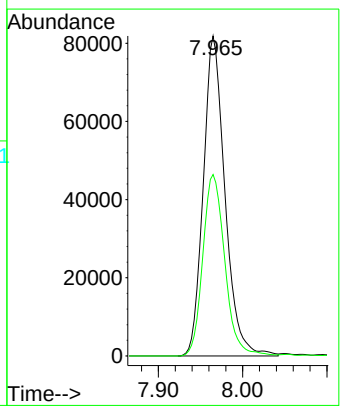


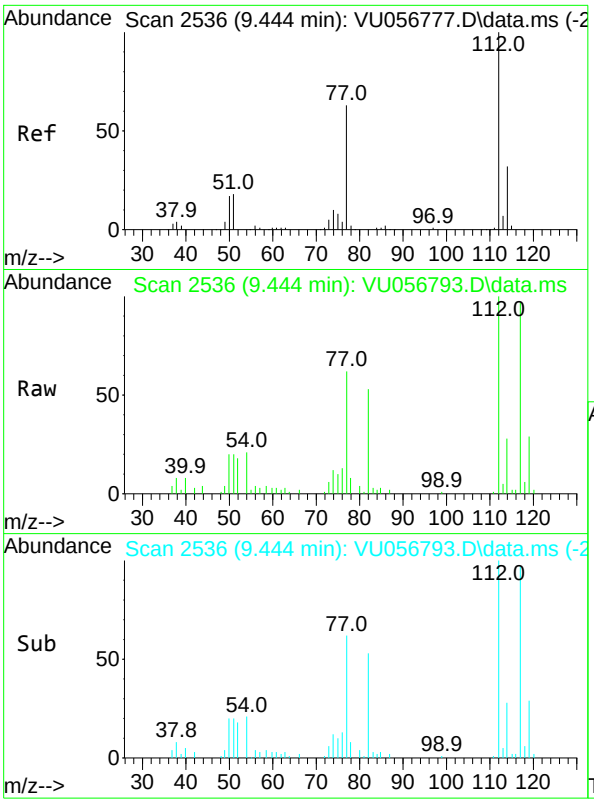




#42
Toluene
Concen: 1.679 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion: 91 Resp: 146756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.7 | 40.4 | 75.0 |



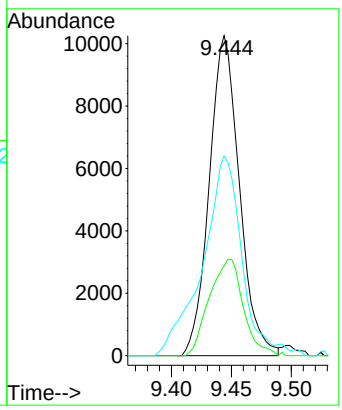


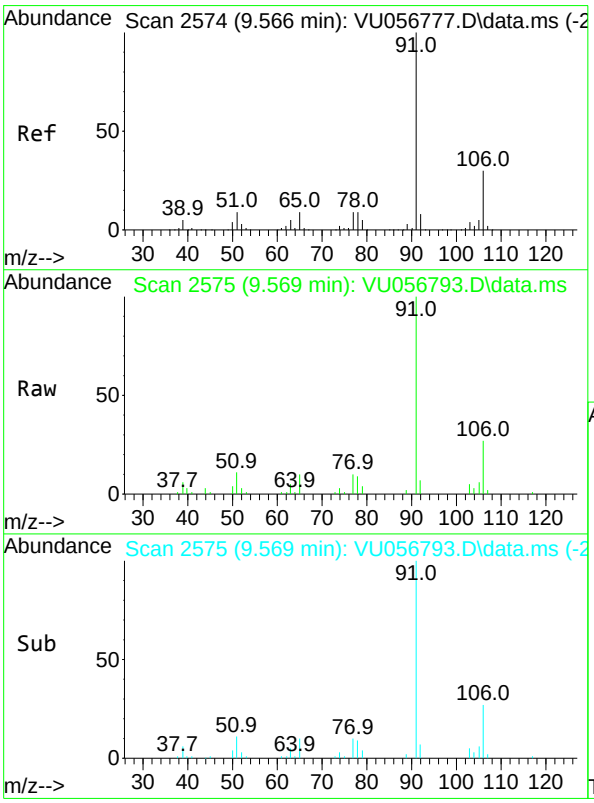

#51
Chlorobenzene
Concen: 0.321 ug/L
RT: 9.444 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion:112 Resp: 17903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 28.2 | 21.9 | 40.7 |
| 77 | 62.4 | 51.6 | 77.4 |

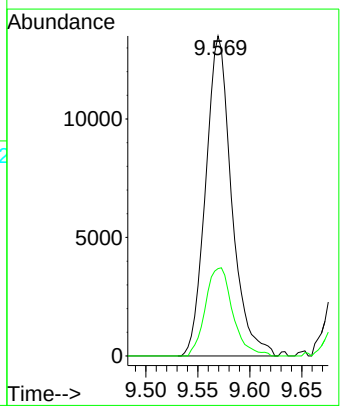


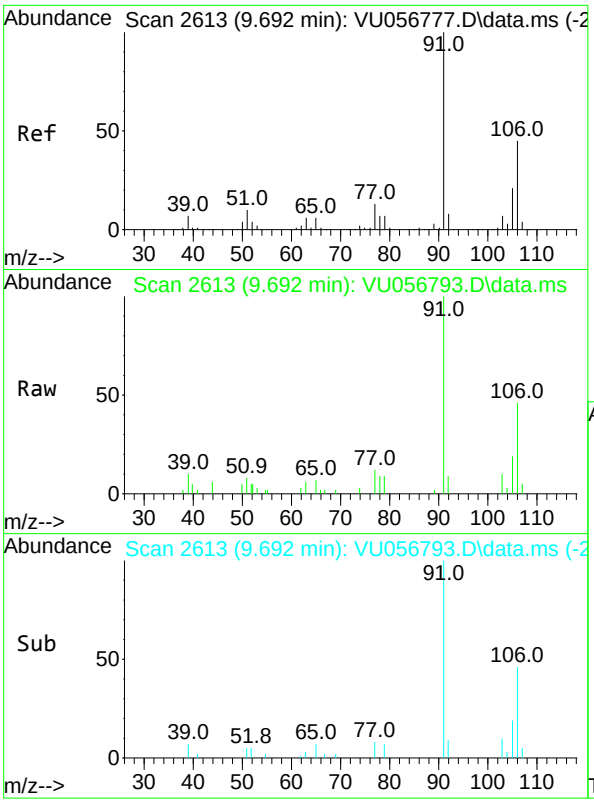




#52
Ethylbenzene
Concen: 0.243 ug/L
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion: 91 Resp: 23412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.3 | 20.6 | 38.4 |



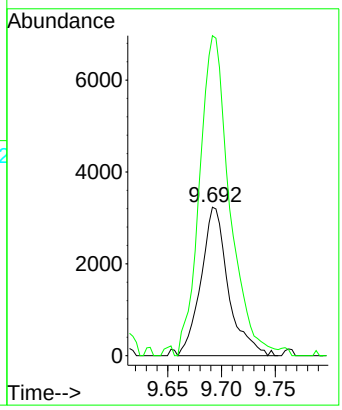


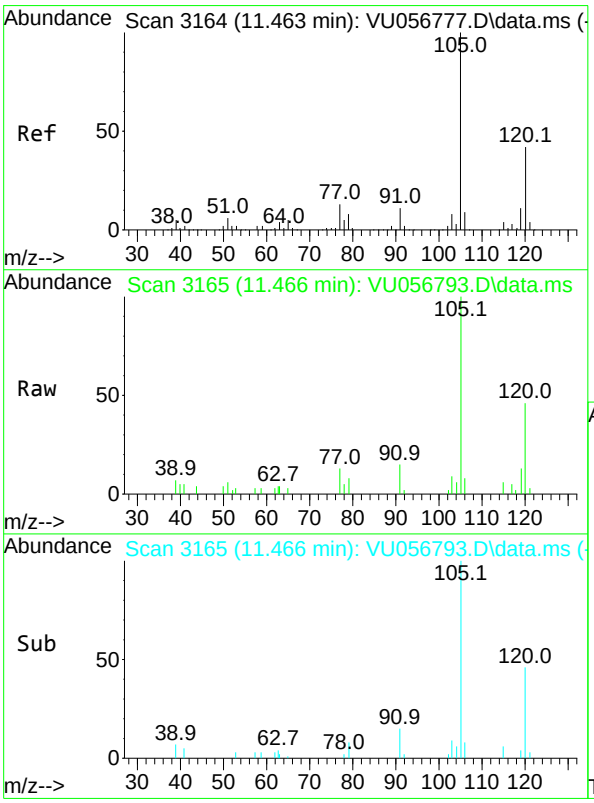

#53
m,p-Xylene
Concen: 0.159 ug/L
RT: 9.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion:106 Resp: 5703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.6 | 154.0 | 286.0 |

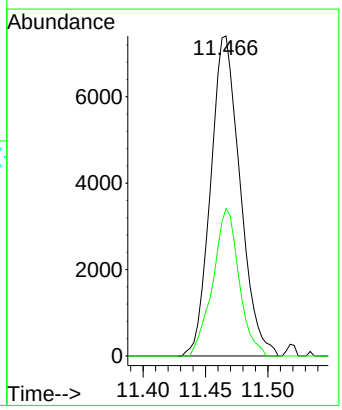


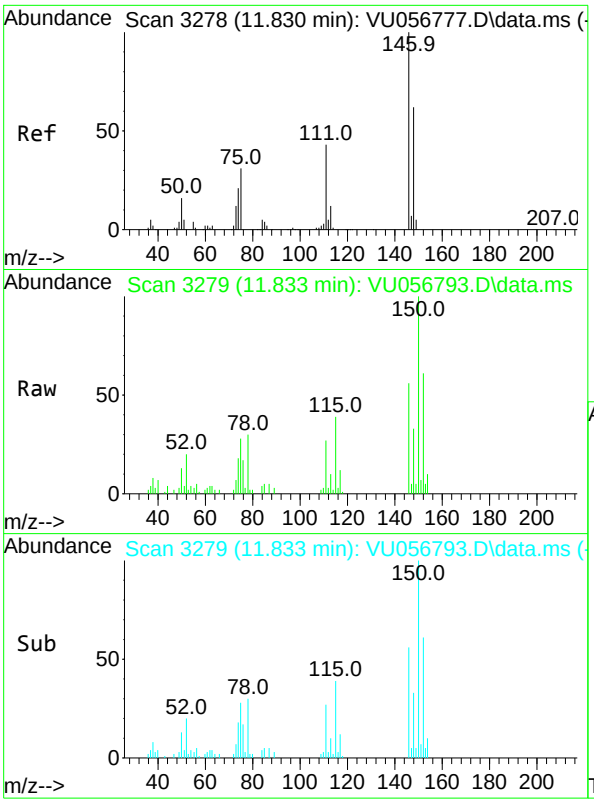




#63
1,2,4-Trimethylbenzene
Concen: 0.184 ug/L
RT: 11.466 min Scan# 3165
Delta R.T. 0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

Tgt Ion:105 Resp: 12161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.0 | 34.2 | 51.4 |






#65
1,4-Dichlorobenzene
Concen: 0.238 ug/L
RT: 11.833 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU056793.D
Acq: 12 Dec 2023 18:09

**Instrument :**
MSVOA_U
**ClientSampleId :**
E0Y71

Tgt Ion:146 Resp: 9058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.7 | 31.2 | 58.0 |
| 148 | 59.4 | 45.6 | 84.8 |