Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
Data File : VV016285.D
Acq On : 28 May 2020 18:35
Operator : SY/MD
Sample : L2756-08DL 20X
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** ETKX0DL

Quant Time: May 29 03:00:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 29 01:10:53 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.64 | 114 | 88805 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.87 | 117 | 88091 | 5.00 | ug/L | 0.00 |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152 | 43783 | 5.00 | ug/L | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 4) Vinyl Chloride-d3 | 1.32 | 65 | 21932 | 3.84 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 76.80% | | | |
| 7) Chloroethane-d5 | 1.58 | 69 | 20910 | 4.17 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 83.40% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.12 | 63 | 32044 | 2.99 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 59.80%# | | | |
| 20) 2-Butanone-d5 | 3.95 | 46 | 73922 | 52.25 | ug/L | 0.01 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 104.50% | | | |
| 24) Chloroform-d | 4.37 | 84 | 42805 | 3.77 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 75.40% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.06 | 65 | 27817 | 4.63 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 92.60% | | | |
| 32) Benzene-d6 | 5.07 | 84 | 97234 | 4.46 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 89.20% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.10 | 67 | 31358 | 4.64 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 92.80% | | | |
| 41) Toluene-d8 | 7.34 | 98 | 84504 | 4.06 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 81.20% | | | |
| 45) trans-1,3-Dichloropropene- | 7.65 | 79 | 10185 | 4.05 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 81.00% | | | |
| 48) 2-Hexanone-d5 | 8.12 | 63 | 52360 | 45.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 90.74% | | | |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24 | 84 | 22310 | 4.47 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 89.40% | | | |
| 65) 1,2-Dichlorobenzene-d4 | 11.65 | 152 | 33010 | 4.51 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 90.20% | | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 16) Methylene chloride | 2.52 | 84 | 1908 | 0.318 | ug/L | 85 |
| 25) Chloroform | 4.40 | 83 | 8601 | 0.746 | ug/L | 95 |
| 29) 1,1,1-Trichloroethane | 4.63 | 97 | 1966 | 0.188 | ug/L # | 84 |
| 34) Trichloroethene | 5.94 | 95 | 5345 | 0.809 | ug/L | 93 |
| 35) Methylcyclohexane | 6.15 | 83 | 2970 | 0.267 | ug/L | 90 |
| 42) Toluene | 7.41 | 91 | 6280 | 0.227 | ug/L | 95 |
| 49) Tetrachloroethene | 8.00 | 164 | 3945 | 0.832 | ug/L | 97 |
| 54) Ethylbenzene | 9.04 | 91 | 7023 | 0.228 | ug/L | 91 |
| 55) m,p-xylene | 9.16 | 106 | 21662 | 1.875 | ug/L | 93 |
| 56) o-xylene | 9.57 | 106 | 7895 | 0.717 | ug/L | 96 |
| 57) Styrene | 9.59 | 104 | 13157 | 0.718 | ug/L | 99 |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
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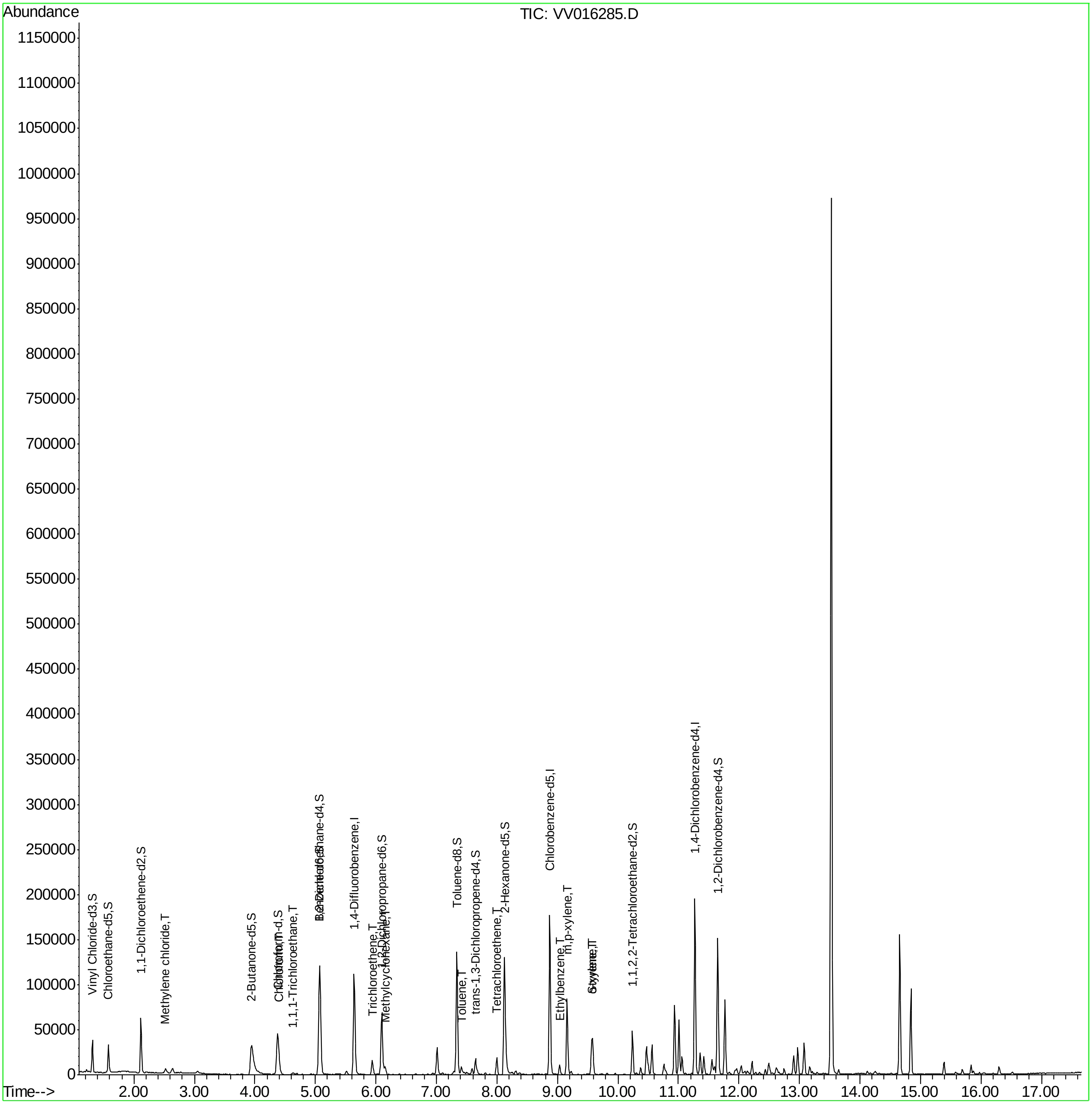
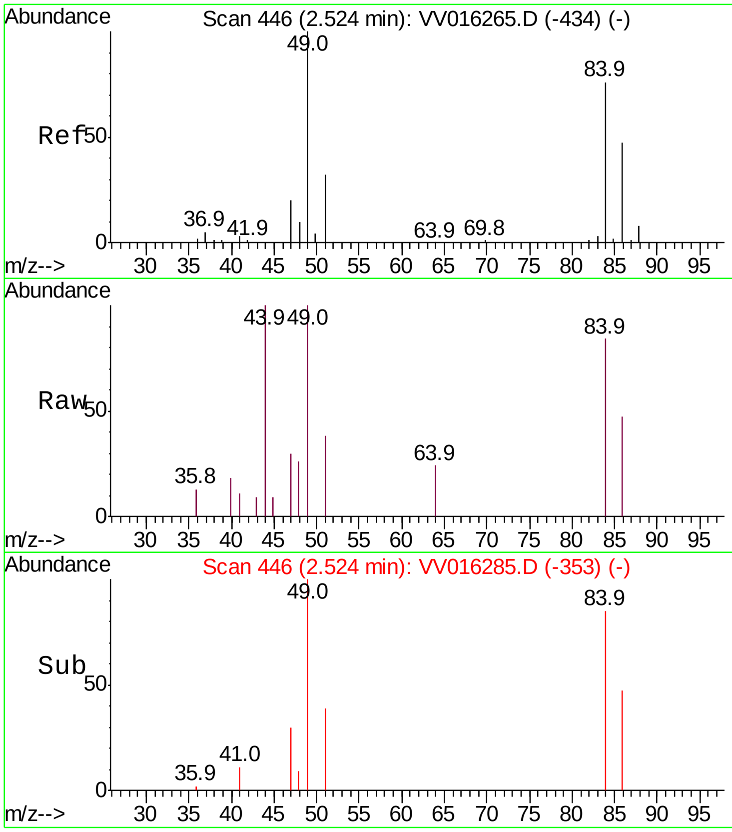
Operator : SY/MD
Sample : L2756-08DL 20X
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

Quant Time: May 29 03:00:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 29 01:10:53 2020
Response via : Initial Calibration



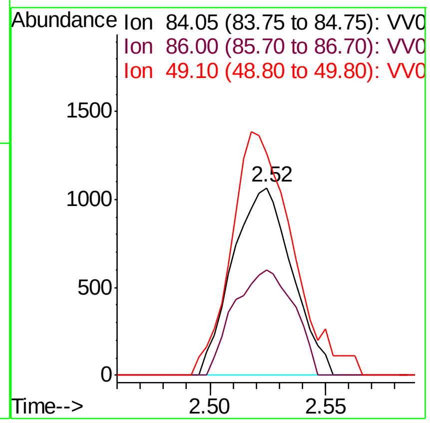


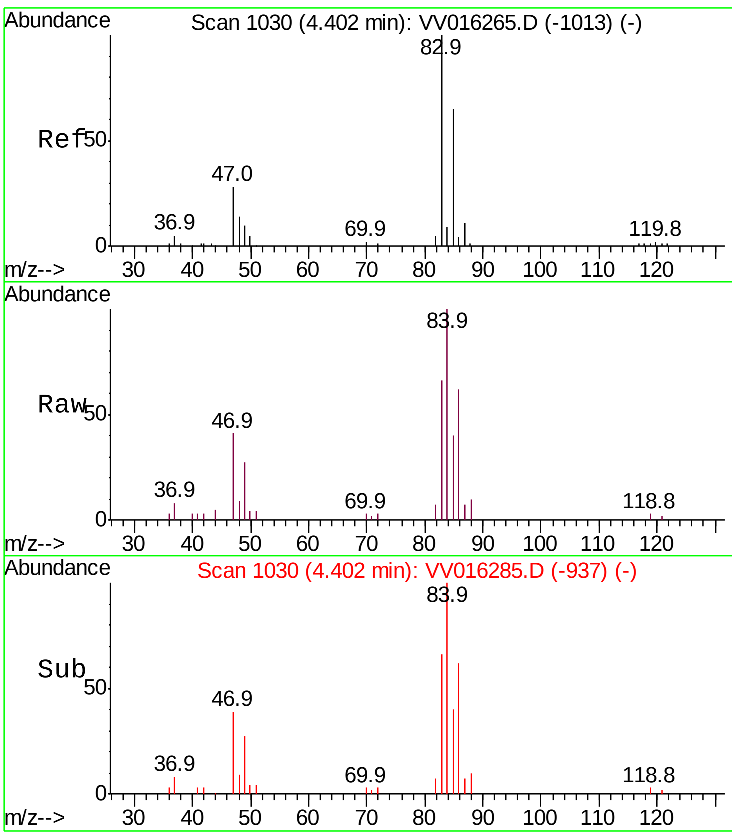

#16
Methylene chloride
Concen: 0.318 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

Tgt Ion: 84 Resp: 1908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 55.8 | 44.9 | 83.5 |
| 49 | 117.9 | 96.7 | 179.7 |

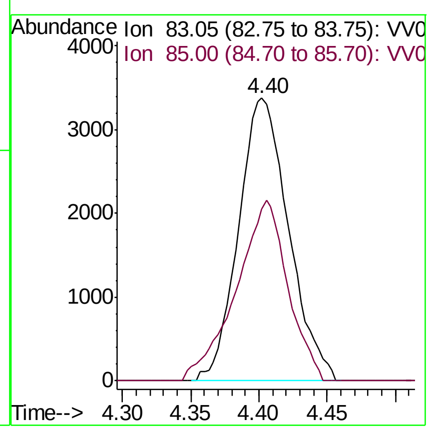


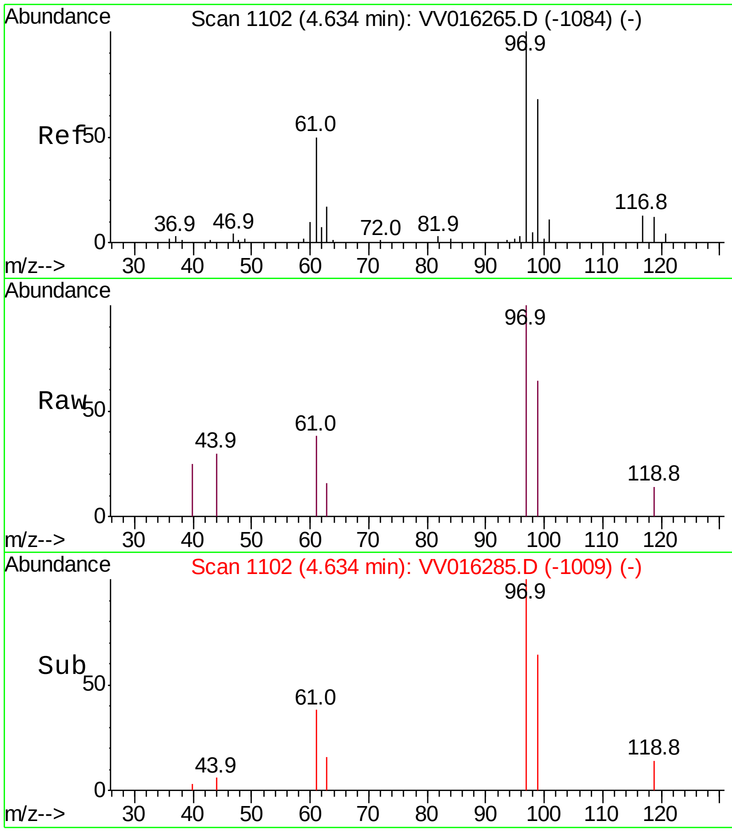




#25
Chloroform
Concen: 0.746 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

Tgt Ion: 83 Resp: 8601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.8 | 45.1 | 83.7 |



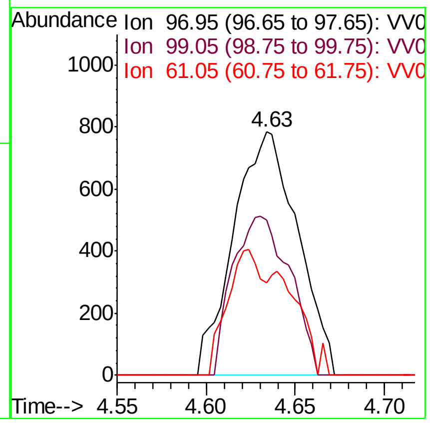


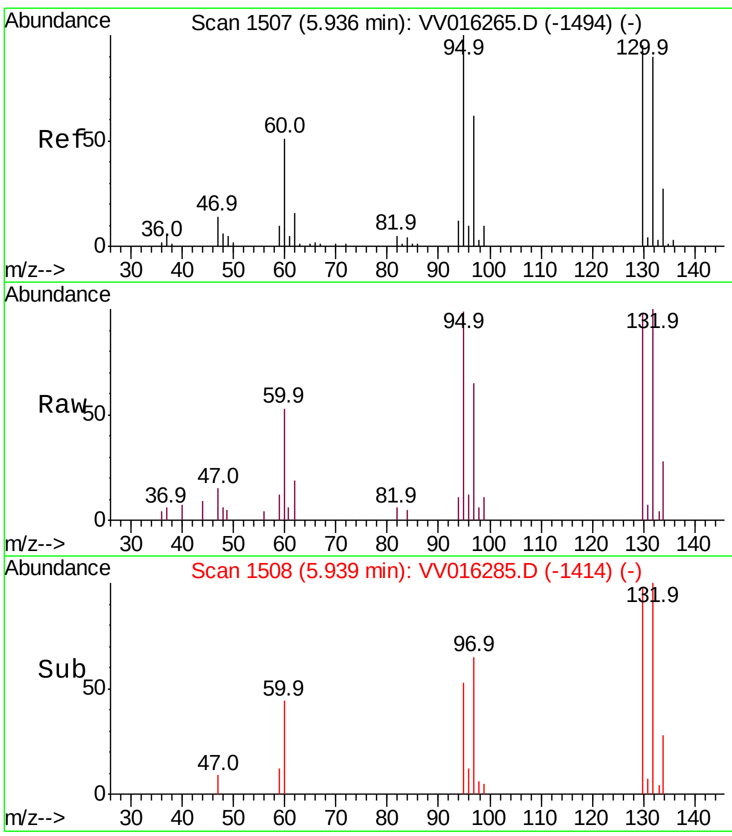

#29
1,1,1-Trichloroethane
Concen: 0.188 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

Tgt Ion: 97 Resp: 1966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 58.3 | 51.2 | 76.8 |
| 61 | 28.8 | 38.6 | 57.8# |

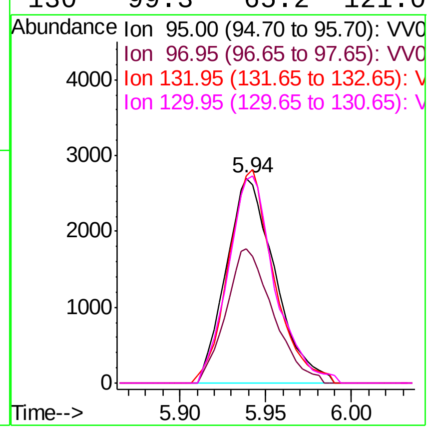


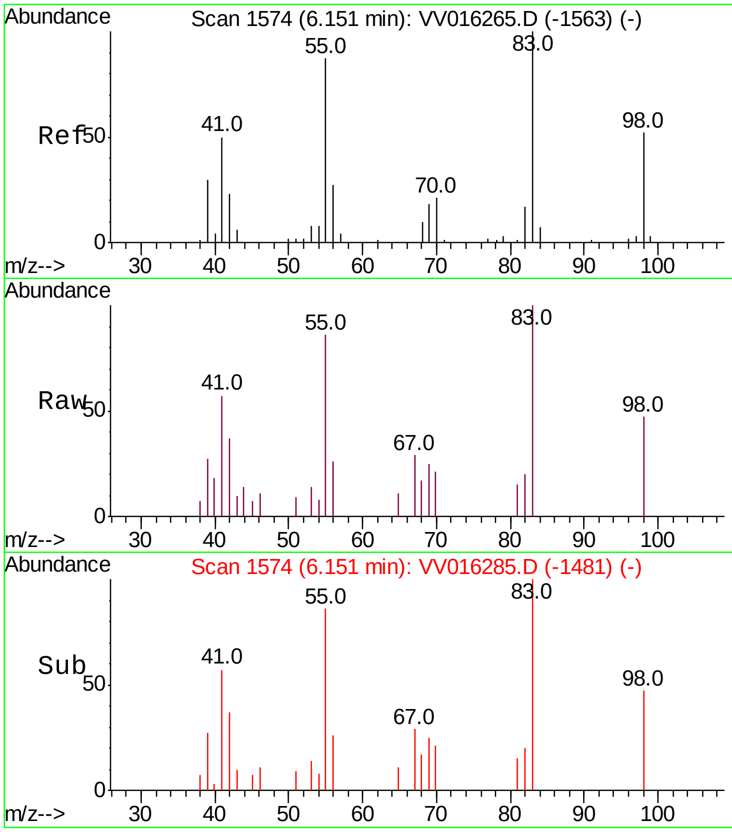




#34
Trichloroethene
Concen: 0.809 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

Tgt Ion: 95 Resp: 5345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 65.6 | 43.6 | 81.0 |
| 132 | 101.0 | 63.9 | 118.7 |
| 130 | 99.3 | 65.2 | 121.0 |



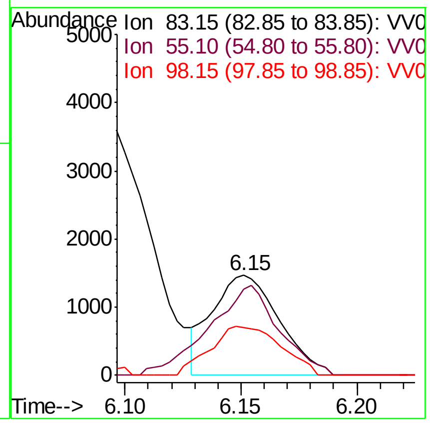


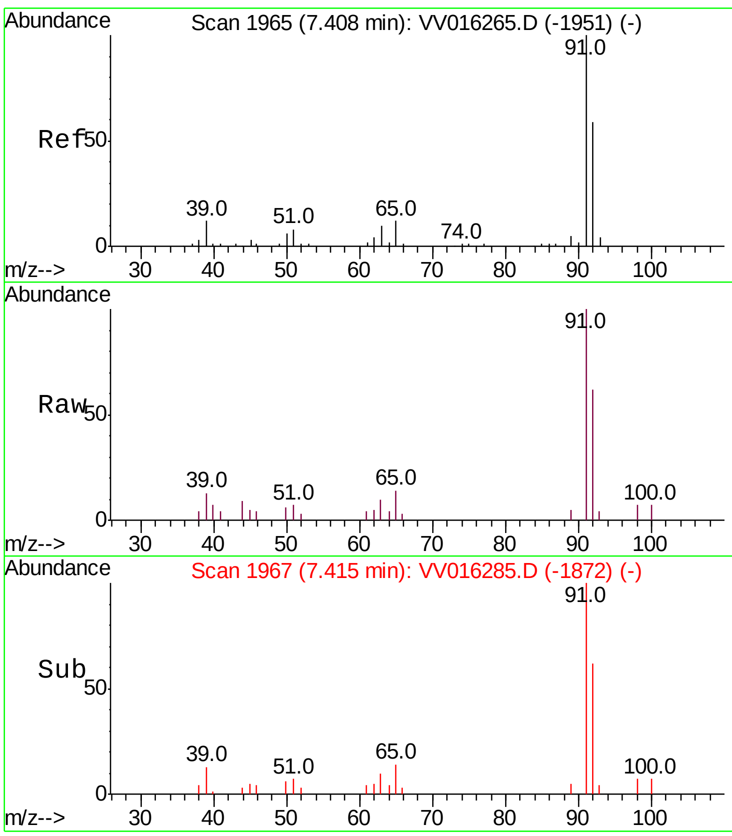

#35
Methylcyclohexane
Concen: 0.267 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

Tgt Ion: 83 Resp: 2970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 94.1 | 65.4 | 98.0 |
| 98 | 51.5 | 39.3 | 58.9 |

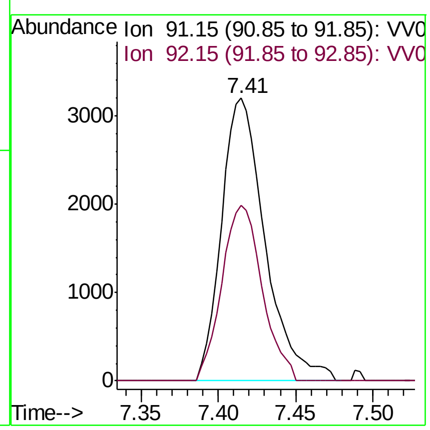


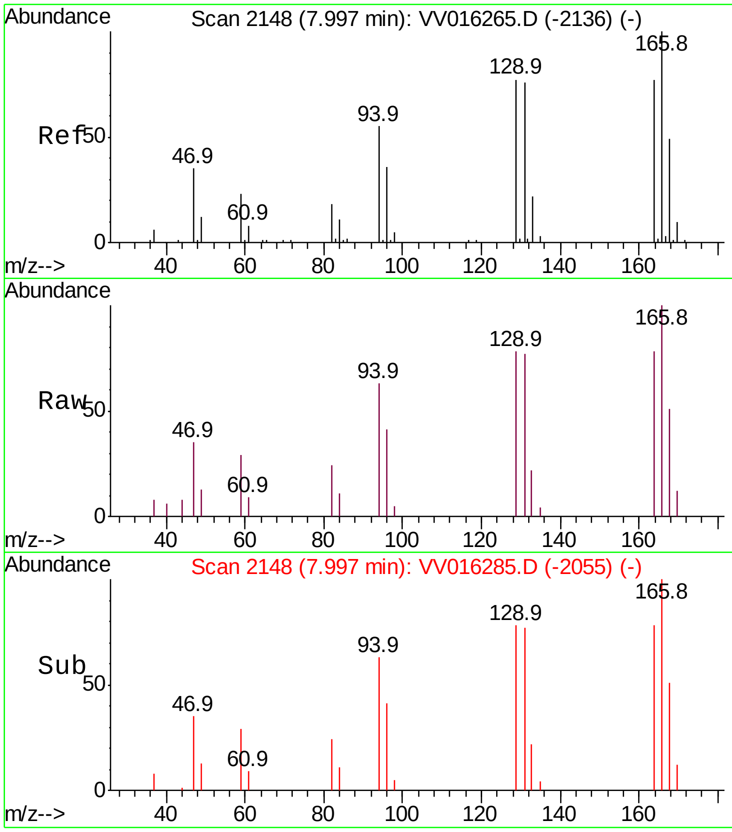

#42
Toluene
Concen: 0.227 ug/L
RT: 7.41 min Scan# 1967
Delta R.T. 0.01 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

Tgt Ion: 91 Resp: 6280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 62.0 | 40.9 | 76.0 |



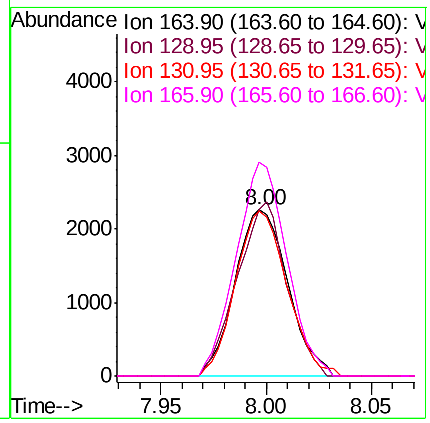
**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

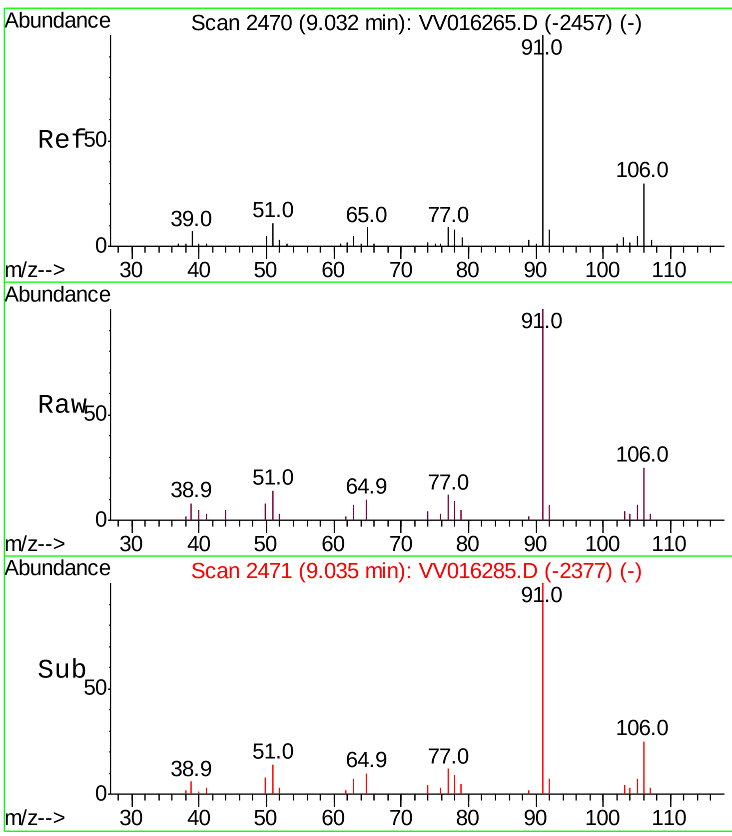



#49
Tetrachloroethene
Concen:    0.832 ug/L
RT: 8.00 min   Scan# 2148
Delta R.T.    -0.00 min
Lab File:    VV016285.D
Acq: 28 May 2020  18:35

Tgt Ion:164 Resp:    3945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 100.4 | 70.7 | 131.3 |
| 131 | 99.2 | 66.6 | 123.8 |
| 166 | 128.7 | 86.9 | 161.5 |

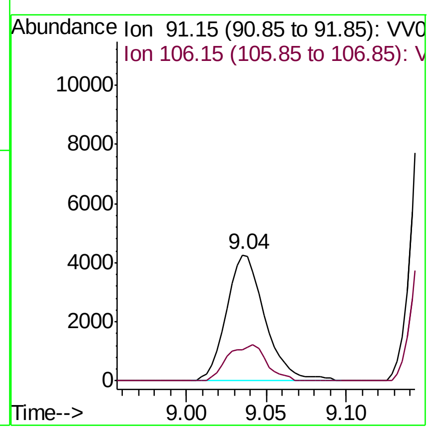


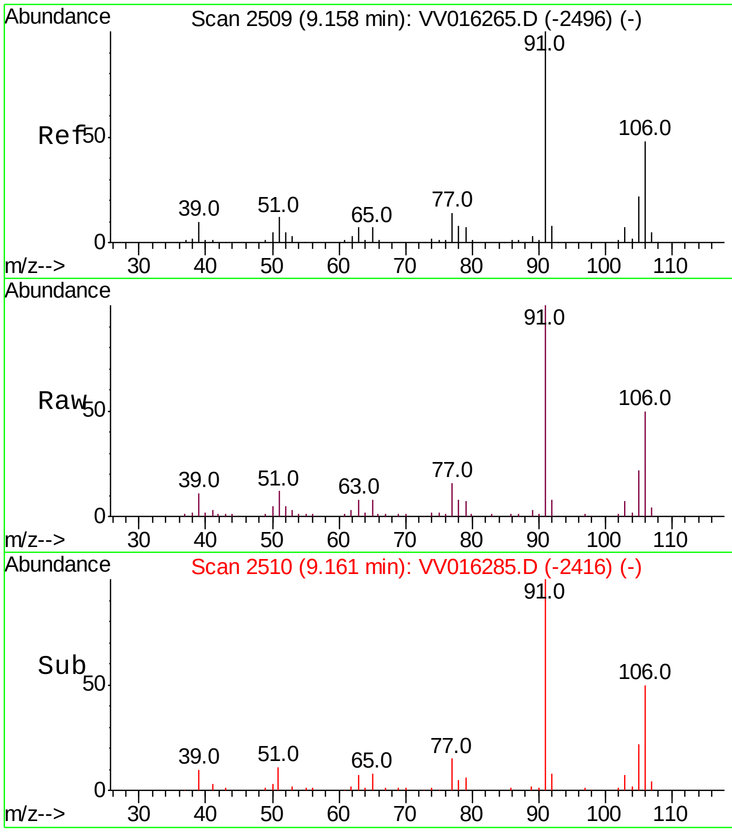




#54
Ethylbenzene
Concen:    0.228 ug/L
RT: 9.04 min   Scan# 2471
Delta R.T.    0.00 min
Lab File:    VV016285.D
Acq: 28 May 2020  18:35

Tgt Ion: 91 Resp:    7023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.2 | 21.0 | 39.0 |



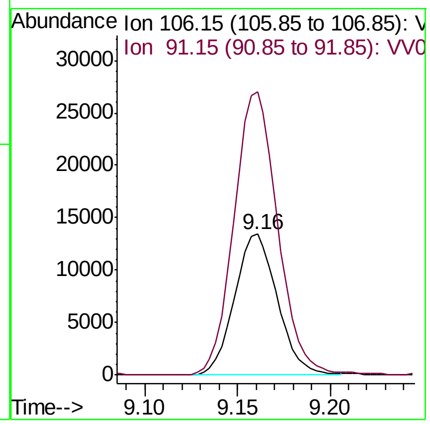


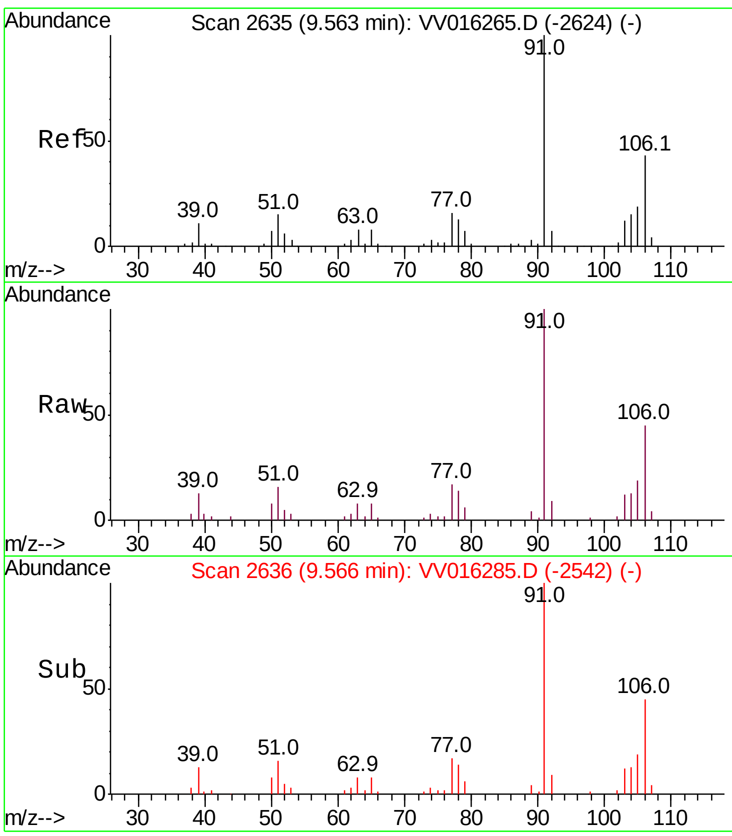

#55
m,p-xylene
Concen:    1.875 ug/L
RT: 9.16 min   Scan# 2510
Delta R.T.    0.00 min
Lab File:    VV016285.D
Acq: 28 May 2020   18:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

Tgt Ion:106 Resp:    21662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.2 | 148.1 | 275.0 |

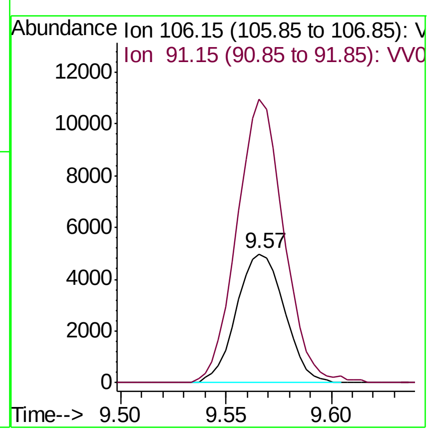


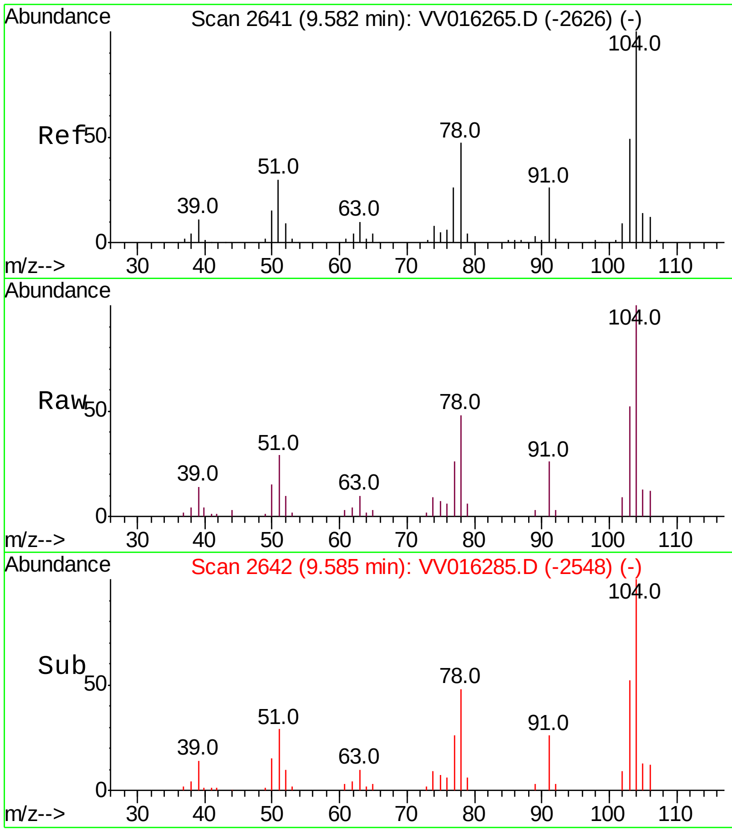




#56
o-xylene
Concen:    0.717 ug/L
RT: 9.57 min   Scan# 2636
Delta R.T.    0.00 min
Lab File:    VV016285.D
Acq: 28 May 2020   18:35

Tgt Ion:106 Resp:     7895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.1 | 158.8 | 294.8 |






#57
Styrene
Concen: 0.718 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV016285.D
Acq: 28 May 2020 18:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
ETKX0DL

Tgt Ion:104 Resp: 13157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.1 | 33.2 | 61.7 |