Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032719\

Quantitation Report (Not Reviewed)

Data File : VU030483.D
Acq On : 27 Mar 2019 15:07
Operator : JC/SP
Sample : K2063-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Quant Time: Mar 28 01:31:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 01:25:46 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.88 | 114 | 425468 | 50.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.09 | 117 | 404569 | 50.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152 | 183118 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.40 | 65 | 154988 | 45.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 90.52% | | | |
| 7) Chloroethane-d5 | 1.68 | 69 | 129831 | 47.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 95.68% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.27 | 63 | 226265 | 34.83 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 69.66% | | | |
| 21) 2-Butanone-d5 | 4.17 | 46 | 330750 | 102.76 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 102.76% | | | |
| 24) Chloroform-d | 4.64 | 84 | 294060 | 49.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 99.68% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.31 | 65 | 196224 | 50.83 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 101.66% | | | |
| 32) Benzene-d6 | 5.34 | 84 | 576254 | 49.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 99.34% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.32 | 67 | 205659 | 51.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 103.62% | | | |
| 41) Toluene-d8 | 7.56 | 98 | 500983 | 48.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.16% | | | |
| 43) trans-1,3-Dichloropropene- | 7.85 | 79 | 90638 | 48.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 97.12% | | | |
| 47) 2-Hexanone-d5 | 8.31 | 63 | 212110 | 98.61 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 98.61% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84 | 280223 | 49.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 98.66% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 184783 | 50.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.72% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 1888 | 0.608 | ug/L # | 21 |
| 13) Acetone | 2.32 | 43 | 28095 | 8.631 | ug/L | 93 |
| 22) 2-Butanone | 4.28 | 43 | 10508 | 2.671 | ug/L | 94 |
| 25) Chloroform | 4.67 | 83 | 183649 | 29.480 | ug/L | 96 |
| 27) 1,2-Dichloroethane | 5.40 | 62 | 26431 | 5.407 | ug/L # | 93 |
| 29) Cyclohexane | 4.99 | 56 | 57783 | 9.438 | ug/L | 94 |
| 33) Benzene | 5.39 | 78 | 1544735 | 112.165 | ug/L | 100 |
| 35) Methylcyclohexane | 6.41 | 83 | 50567 | 9.077 | ug/L # | 84 |
| 37) 1,2-Dichloropropane | 6.32 | 63 | 21178 | 5.419 | ug/L # | 93 |
| 38) Bromodichloromethane | 6.76 | 83 | 25139 | 5.413 | ug/L | 95 |
| 40) 4-Methyl-2-pentanone | 7.47 | 43 | 5724 | 0.872 | ug/L # | 66 |
| 42) Toluene | 7.63 | 91 | 3415403 | 238.958 | ug/L | 99 |
| 44) trans-1,3-Dichloropropene | 7.84 | 75 | 3737 | 0.756 | ug/L # | 67 |
| 45) 1,1,2-Trichloroethane | 8.04 | 97 | 2673 | 0.809 | ug/L # | 16 |
| 48) 2-Hexanone | 8.36 | 43 | 17154 | 3.188 | ug/L # | 79 |
| 49) Dibromochloromethane | 8.48 | 129 | 3199 | 0.932 | ug/L | 91 |
| 51) Chlorobenzene | 9.12 | 112 | 7382 | 0.852 | ug/L | 92 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032719\

Quantitation Report (Not Reviewed)

Data File : VU030483.D
Acq On : 27 Mar 2019 15:07
Operator : JC/SP
Sample : K2063-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Quant Time: Mar 28 01:31:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 01:25:46 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) Ethylbenzene | 9.25 | 91 | 695084 | 44.893 | ug/L | | 99 |
| 53) m,p-Xylene | 9.37 | 106 | 670440 | 119.924 | ug/L | | 99 |
| 54) o-xylene | 9.77 | 106 | 313235 | 57.422 | ug/L | | 98 |
| 55) Styrene | 9.77 | 104 | 18041 | 1.920 | ug/L | # | 1 |
| 56) Isopropylbenzene | 10.16 | 105 | 42261 | 2.926 | ug/L | | 98 |
| 59) 1,2,3-Trichloropropane | 11.48 | 75 | 25679 | 5.398 | ug/L | | 92 |
| 63) 1,4-Dichlorobenzene | 11.51 | 146 | 4069 | 0.660 | ug/L | | 91 |
| 65) 1,2-Dichlorobenzene | 11.88 | 146 | 7226 | 1.193 | ug/L | | 94 |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180 | 1784 | 0.458 | ug/L | # | 76 |
| 69) Naphthalene | 13.75 | 128 | 48482 | 3.500 | ug/L | | 100 |

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

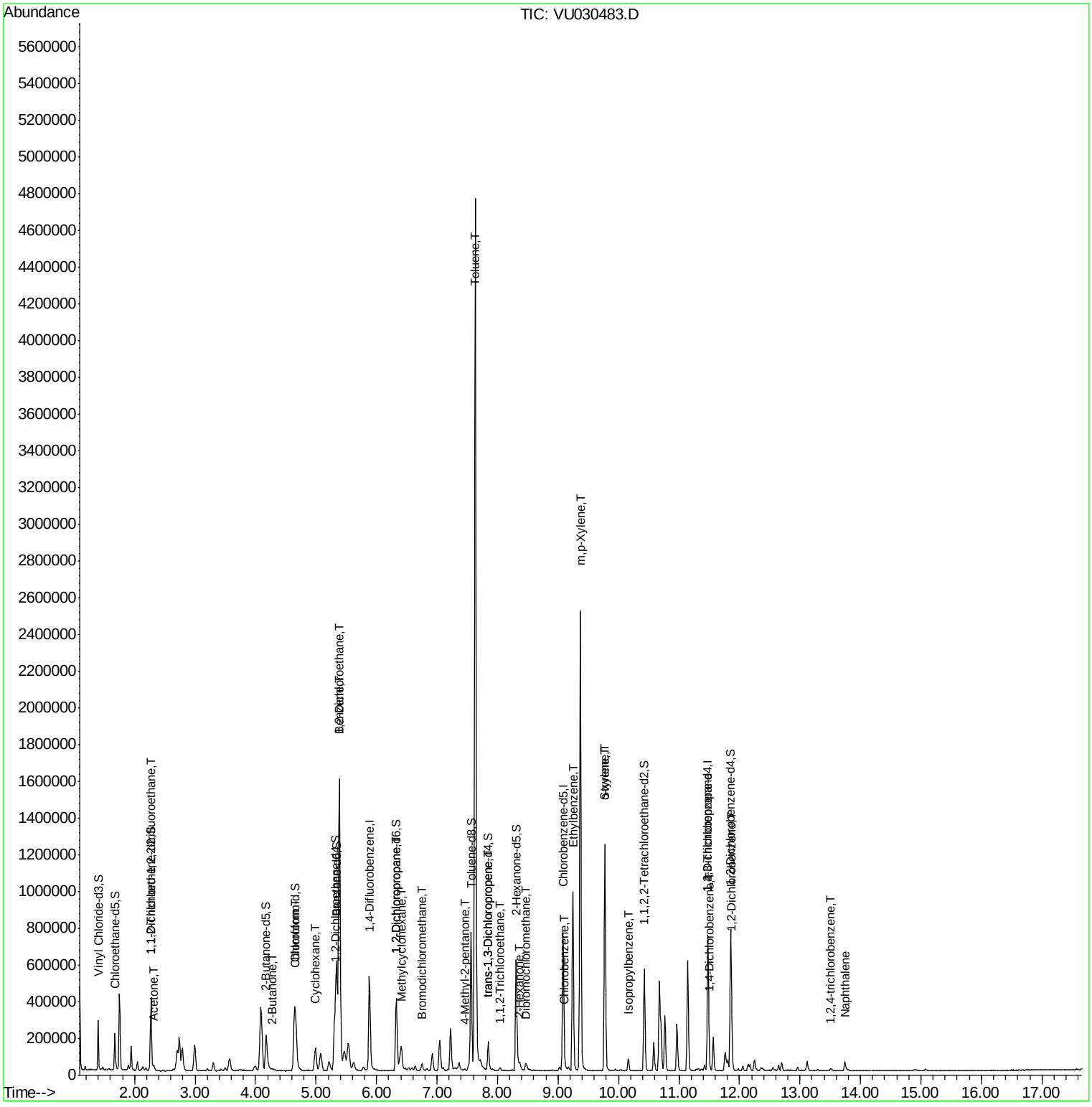
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032719\

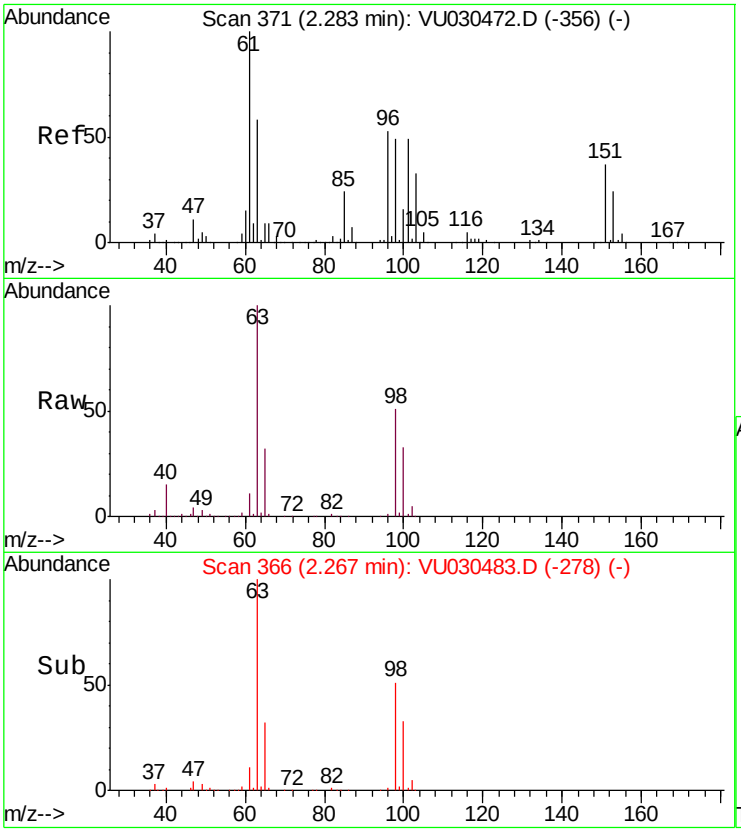
Quantitation Report (Not Reviewed)

Data File : VU030483.D
Acq On : 27 Mar 2019 15:07
Operator : JC/SP
Sample : K2063-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Quant Time: Mar 28 01:31:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 01:25:46 2019
Response via : Initial Calibration



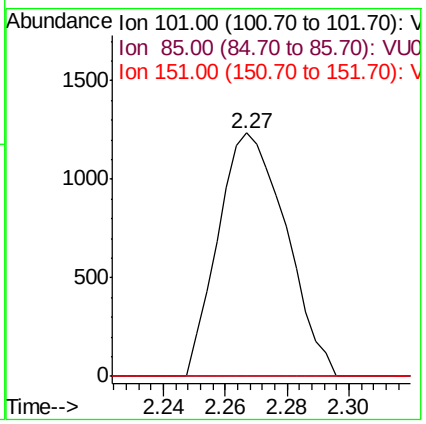


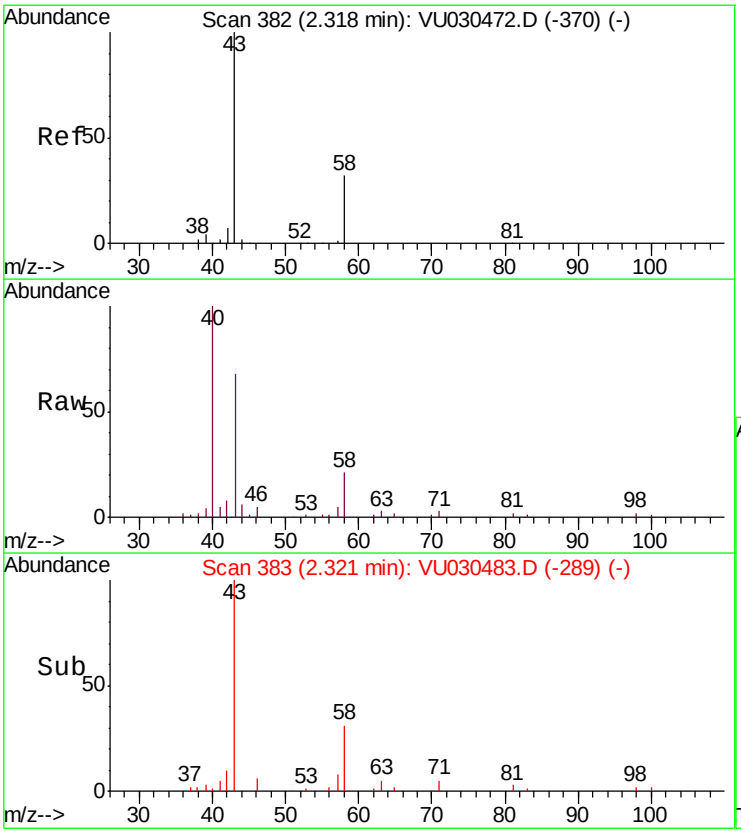

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.608 ug/L
RT: 2.27 min Scan# 366
Delta R.T. -0.02 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion:101 Resp: 1888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 0.0 | 34.8 | 52.2# |
| 151 | 0.0 | 56.6 | 85.0# |

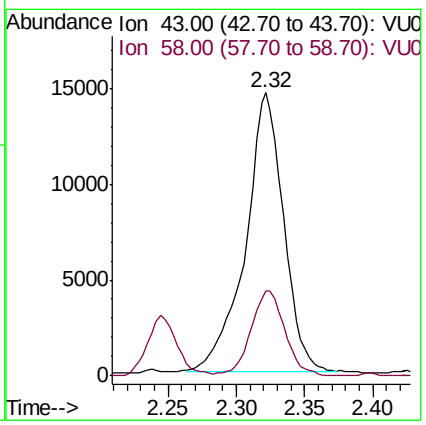


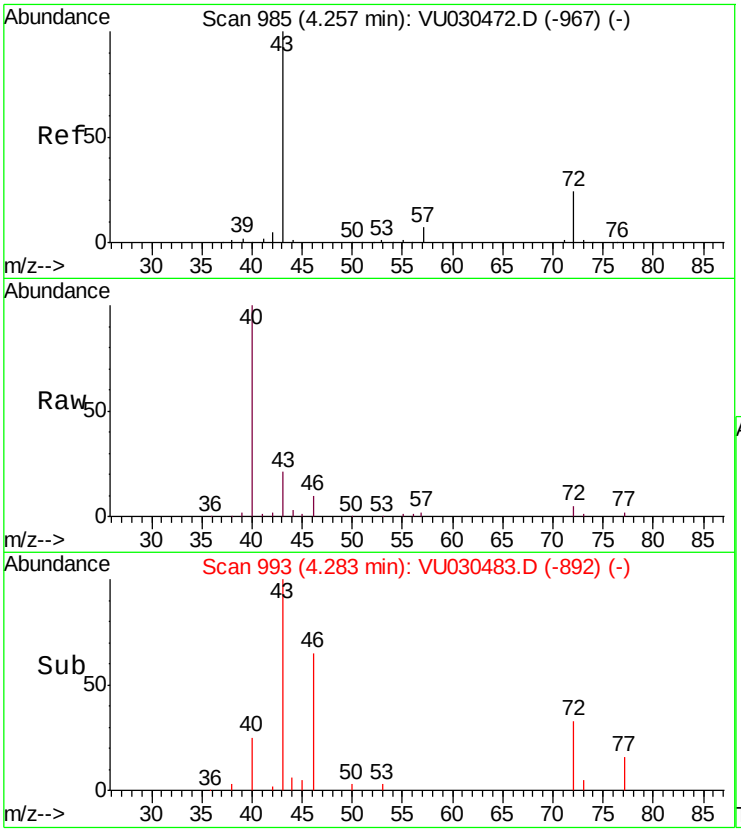




#13
Acetone
Concen: 8.631 ug/L
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 43 Resp: 28095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.5 | 0.0 | 62.8 |



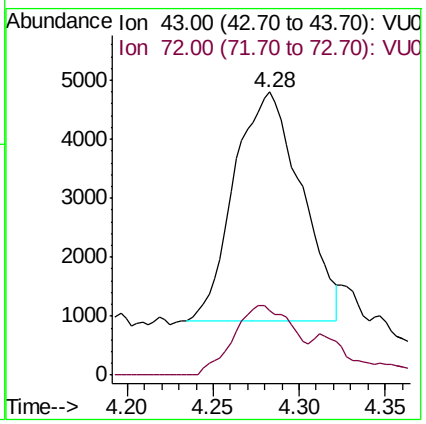


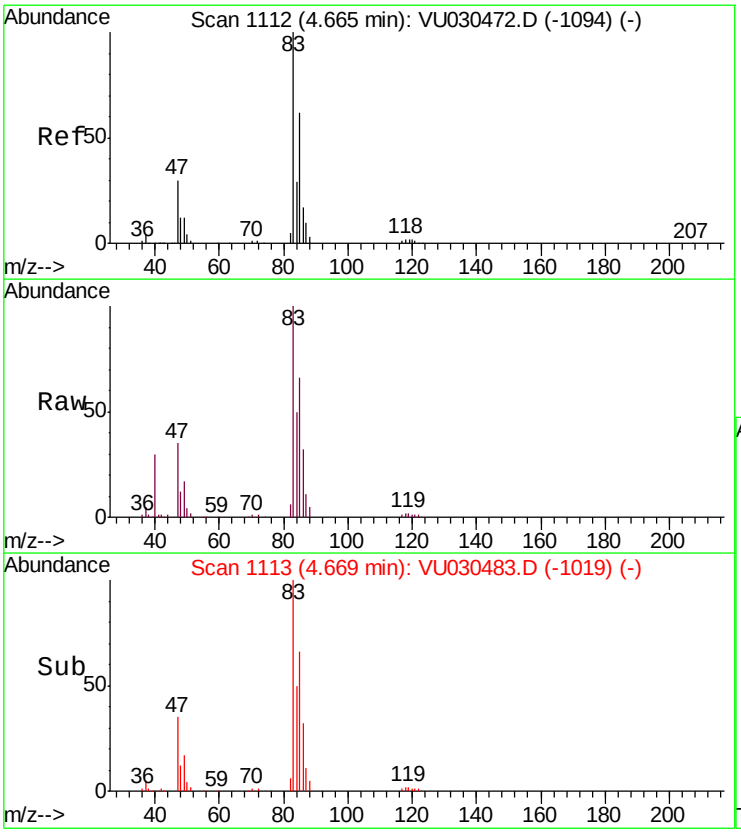

#22
2-Butanone
Concen: 2.671 ug/L
RT: 4.28 min Scan# 993
Delta R.T. 0.03 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 43 Resp: 10508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 12.0 | 36.1 |

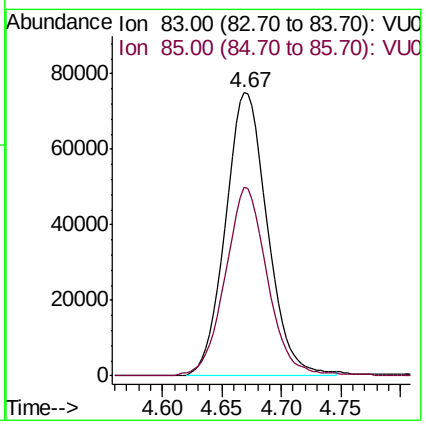


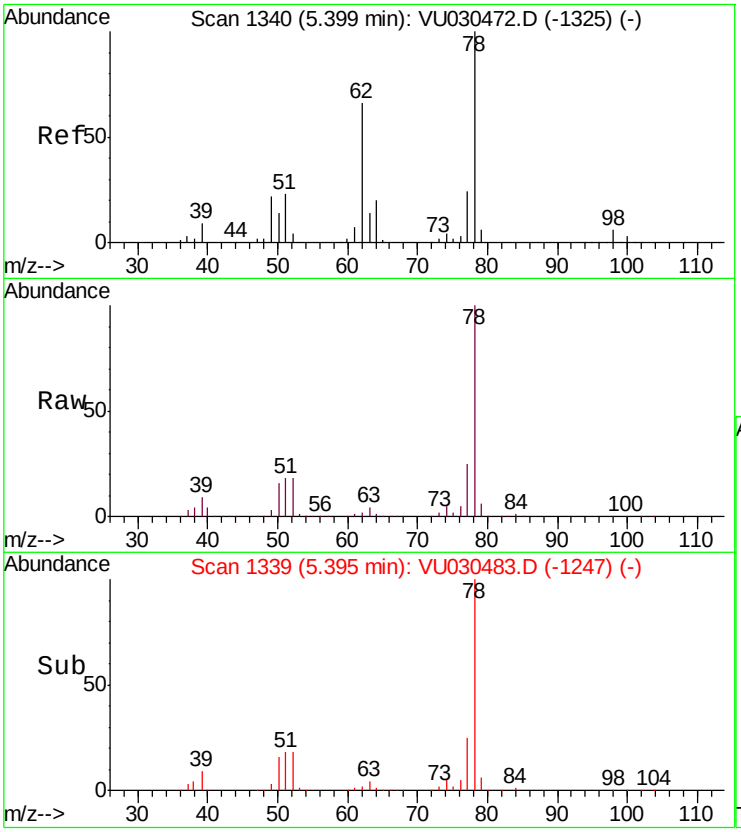




#25
Chloroform
Concen: 29.480 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 83 Resp: 183649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.5 | 44.4 | 82.4 |



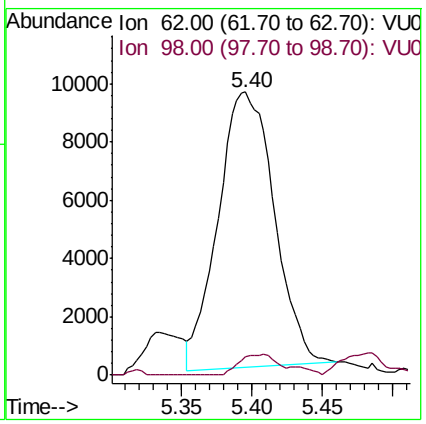


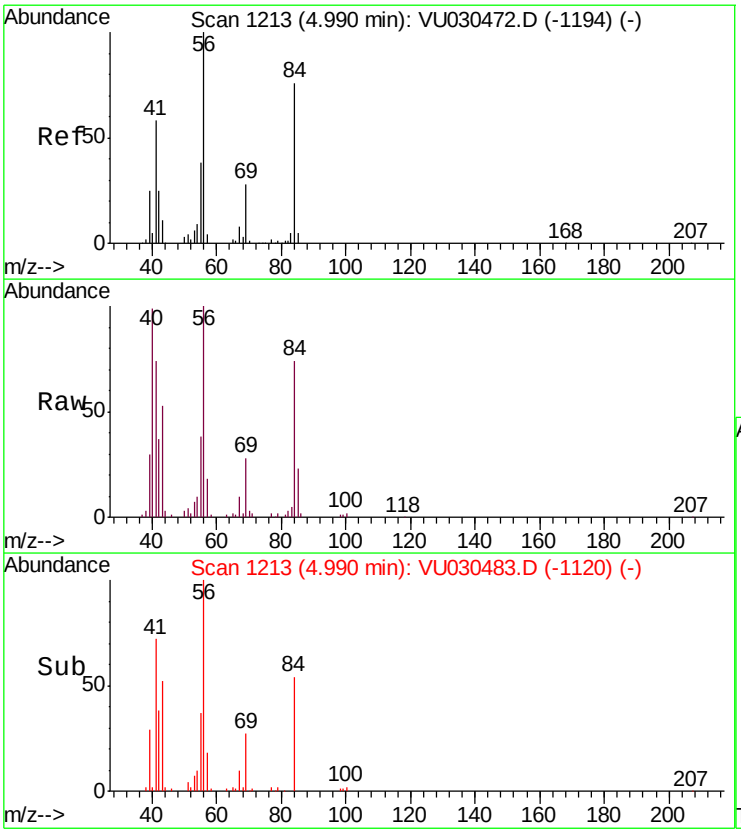

#27
1,2-Dichloroethane
Concen: 5.407 ug/L
RT: 5.40 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 62 Resp: 26431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 7.2 | 10.8# |

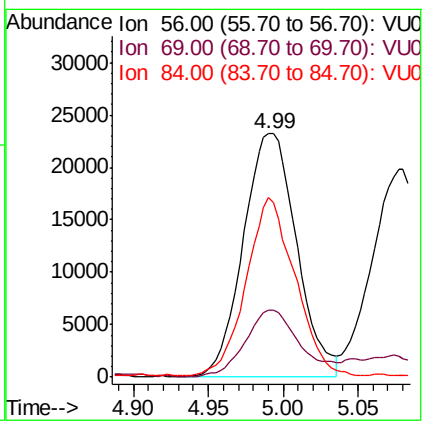


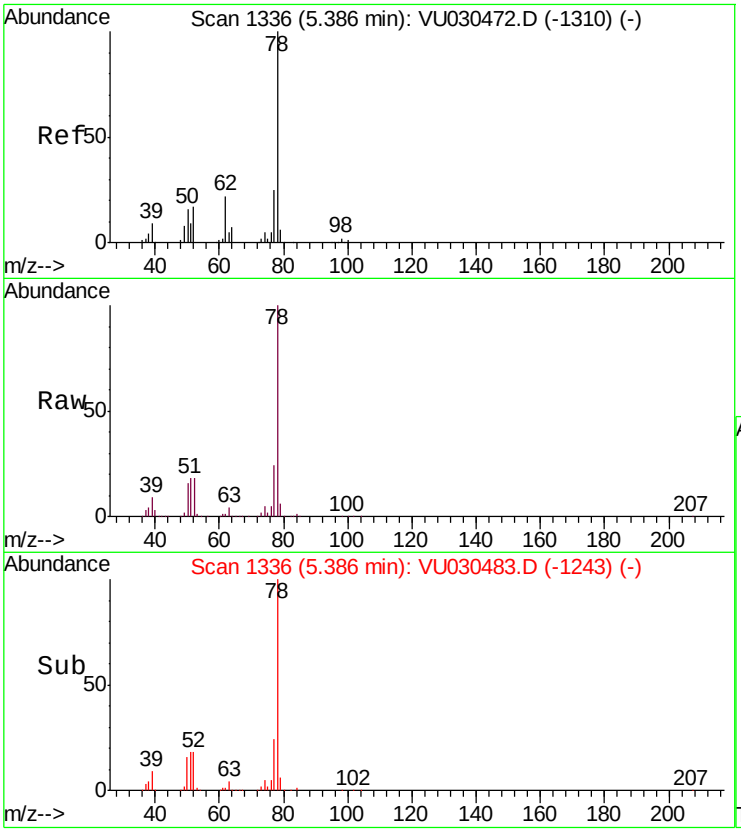




#29
Cyclohexane
Concen: 9.438 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 56 Resp: 57783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 28.4 | 22.9 | 34.3 |
| 84 | 67.1 | 58.9 | 88.3 |

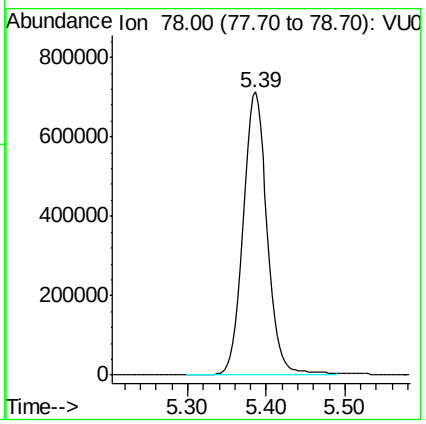


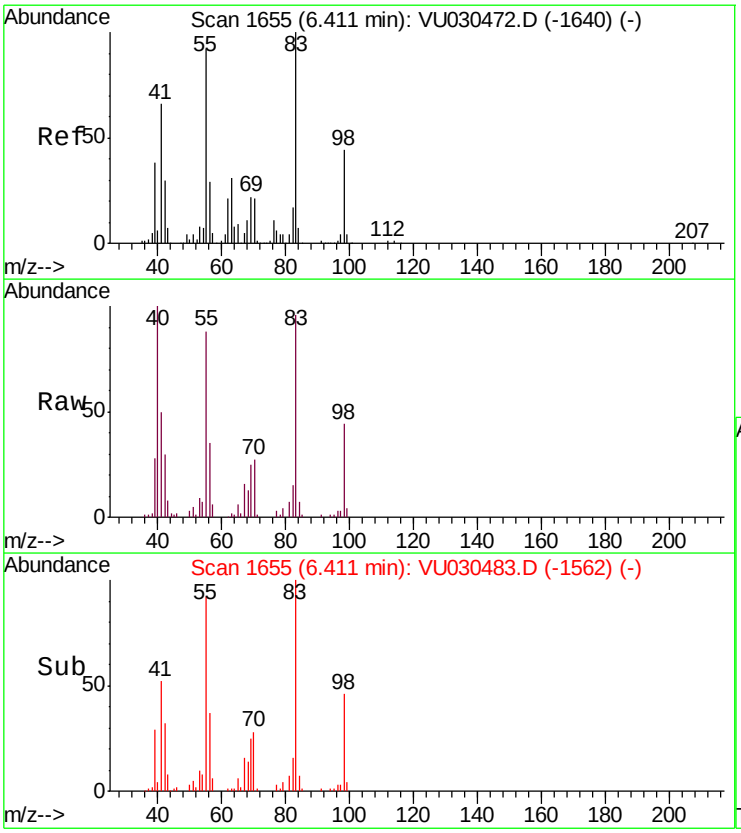



#33
Benzene
Concen: 112.165 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion: 78 Resp: 1544735

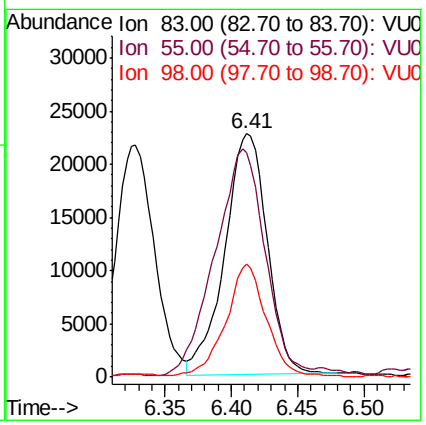


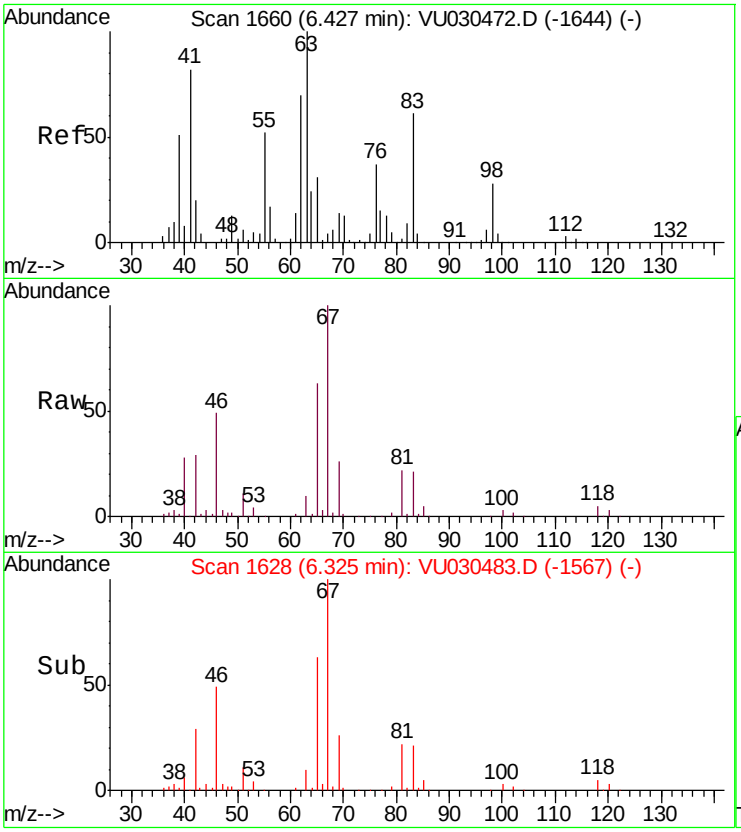




#35
Methylcyclohexane
Concen: 9.077 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 83 Resp: 50567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 111.0 | 71.4 | 107.0# |
| 98 | 45.2 | 36.0 | 54.0 |



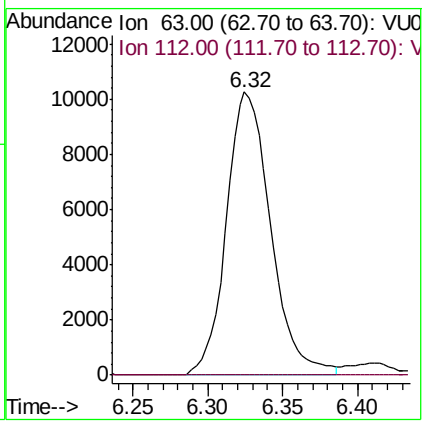


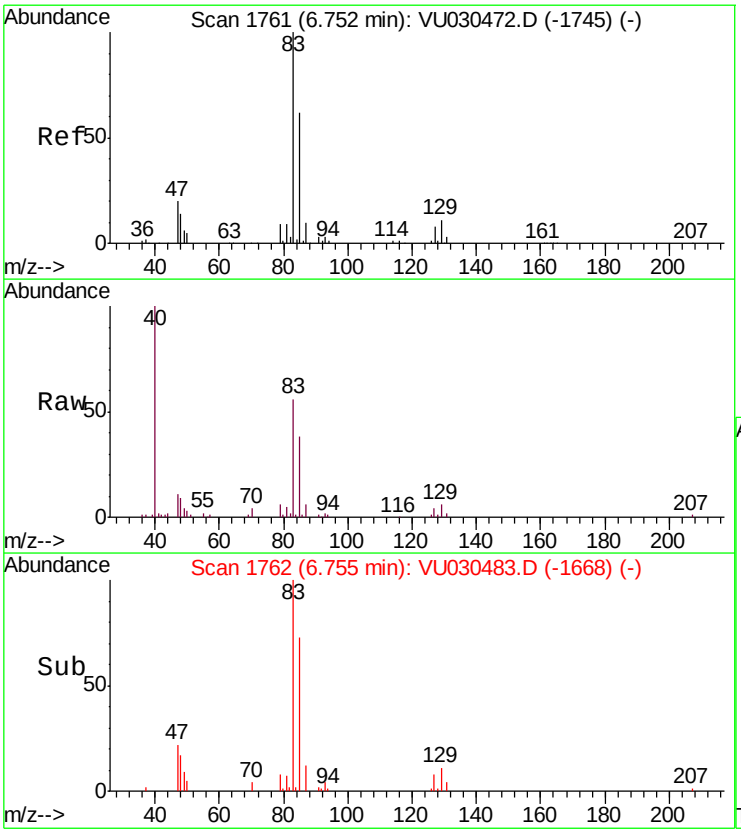

#37
1,2-Dichloropropane
Concen: 5.419 ug/L
RT: 6.32 min Scan# 1628
Delta R.T. -0.10 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 63 Resp: 21178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 0.8 | 2.6 | 4.0# |

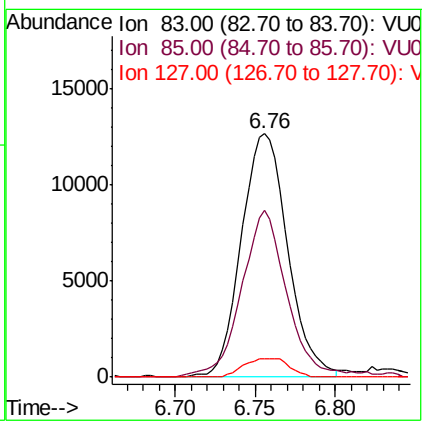


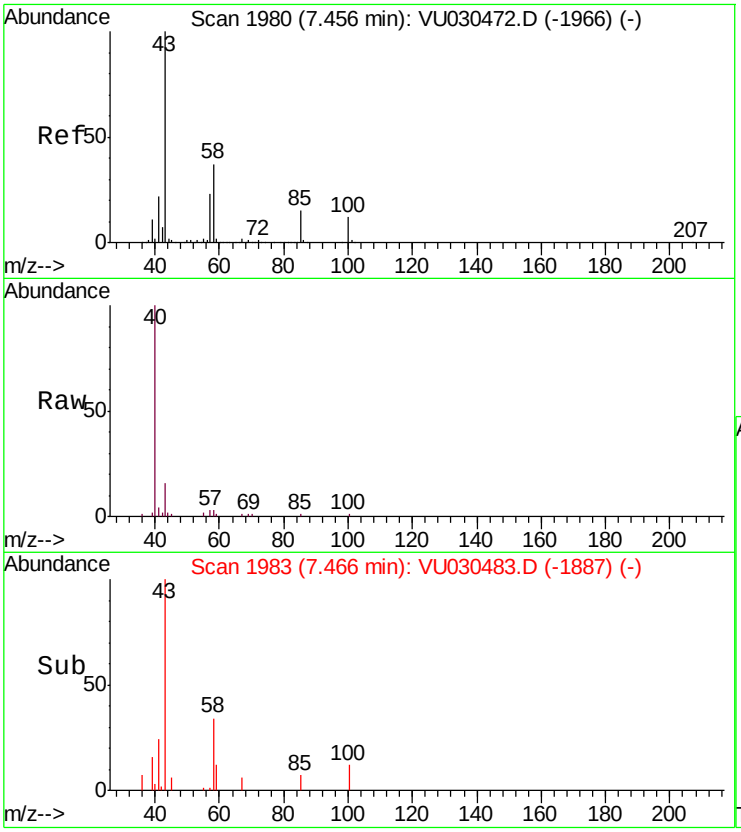




#38
Bromodichloromethane
Concen: 5.413 ug/L
RT: 6.76 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 83 Resp: 25139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.4 | 45.0 | 83.6 |
| 127 | 7.5 | 6.6 | 10.0 |



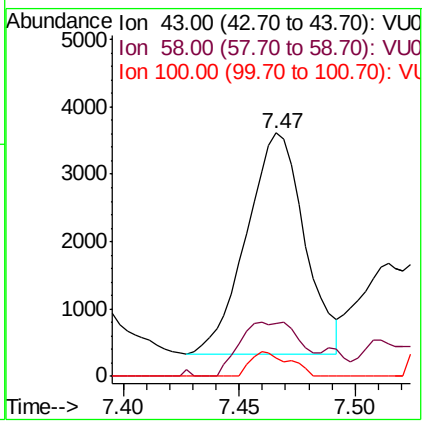


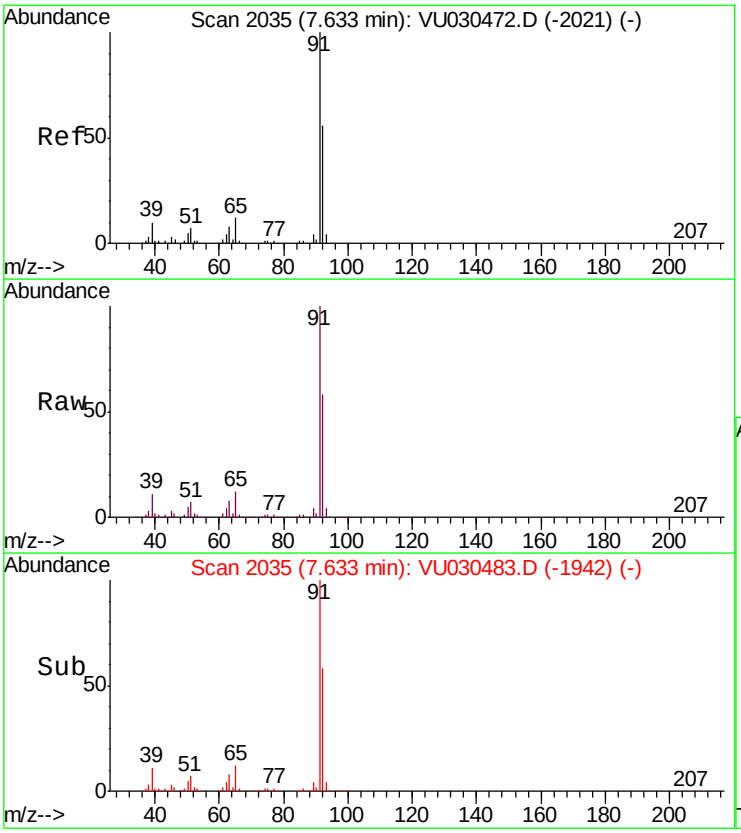

#40
4-Methyl-2-pentanone
Concen: 0.872 ug/L
RT: 7.47 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 43 Resp: 5724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 13.5 | 30.6 | 45.8# |
| 100 | 7.5 | 9.5 | 14.3# |

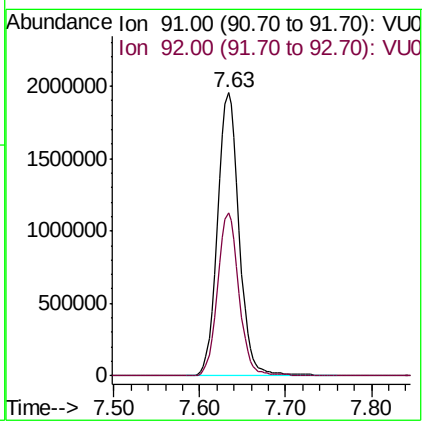


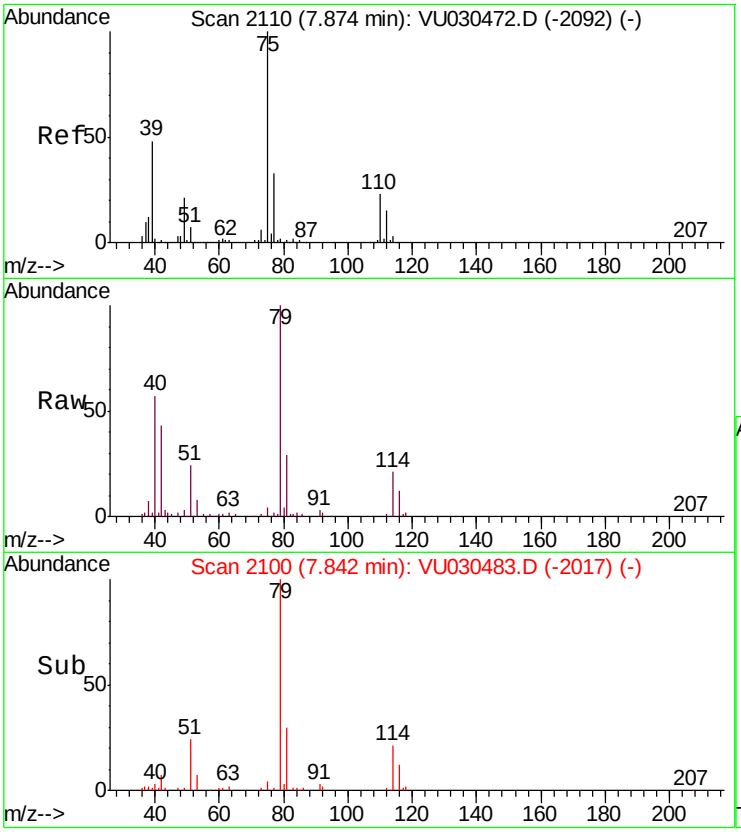




#42
Toluene
Concen: 238.958 ug/L
RT: 7.63 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 91 Resp: 3415403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.7 | 39.7 | 73.7 |



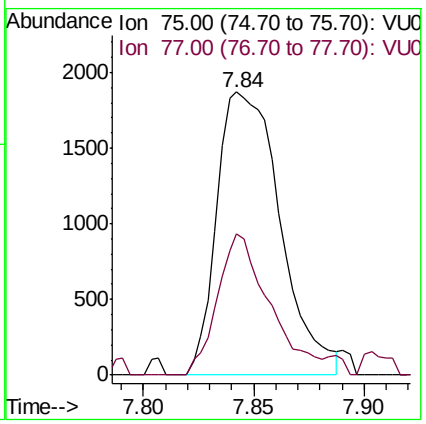


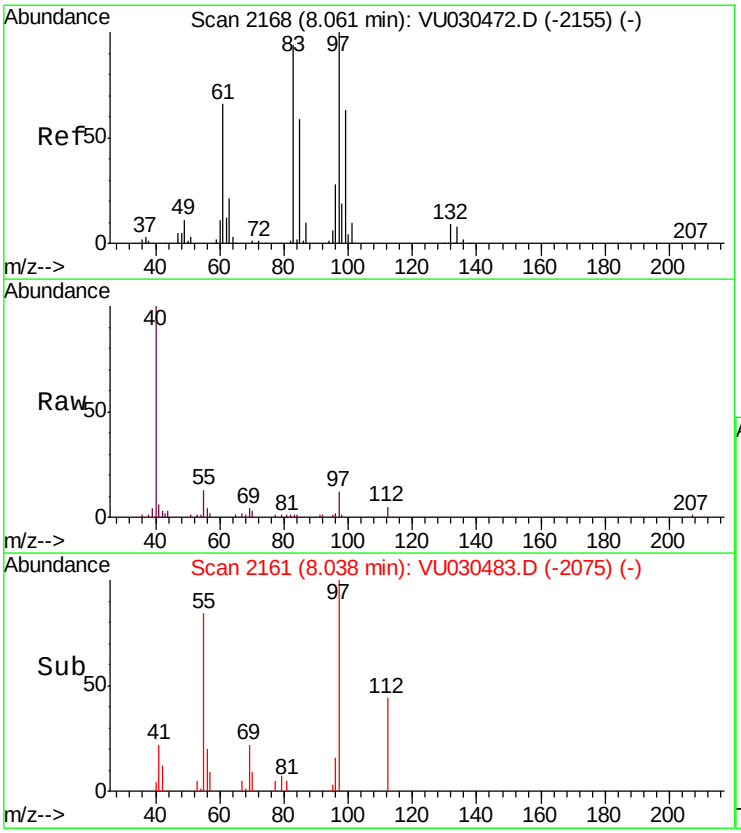

#44
trans-1,3-Dichloropropene
Concen: 0.756 ug/L
RT: 7.84 min Scan# 2100
Delta R.T. -0.03 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 75 Resp: 3737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 49.7 | 22.0 | 40.8# |

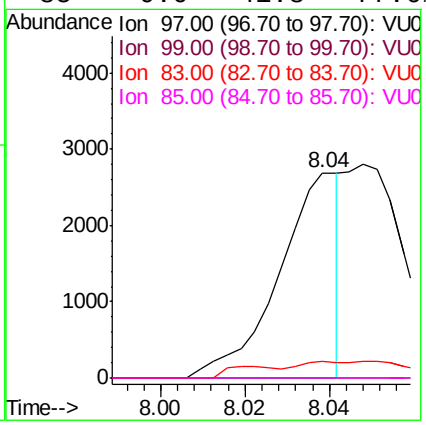


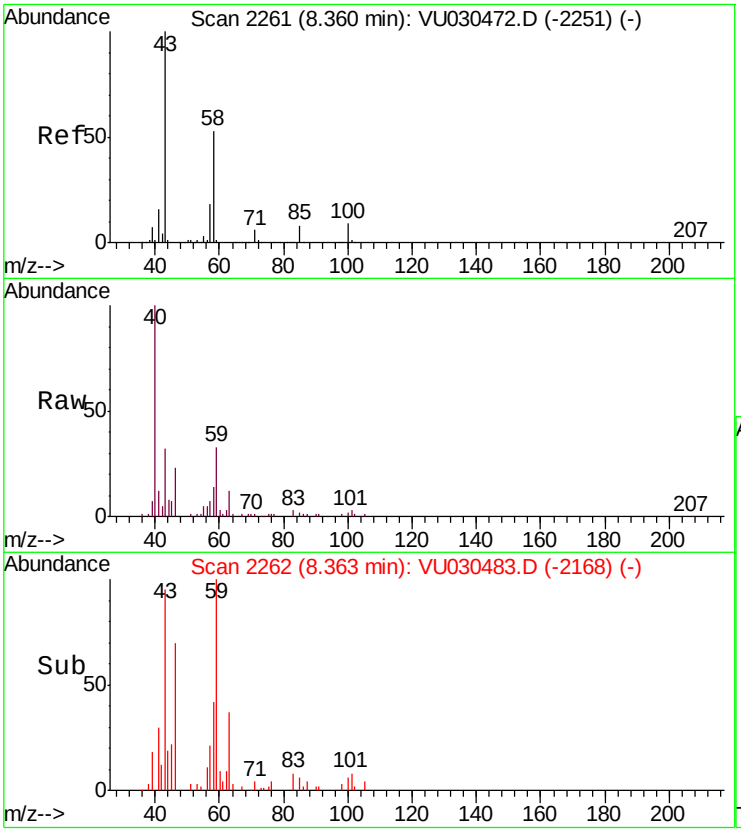




#45
1,1,2-Trichloroethane
Concen: 0.809 ug/L
RT: 8.04 min Scan# 2161
Delta R.T. -0.02 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 97 Resp: 2673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 0.0 | 44.0 | 81.8# |
| 83 | 8.2 | 65.3 | 121.3# |
| 85 | 0.0 | 41.8 | 77.6# |



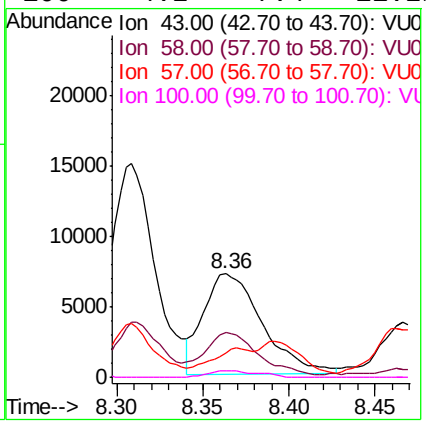


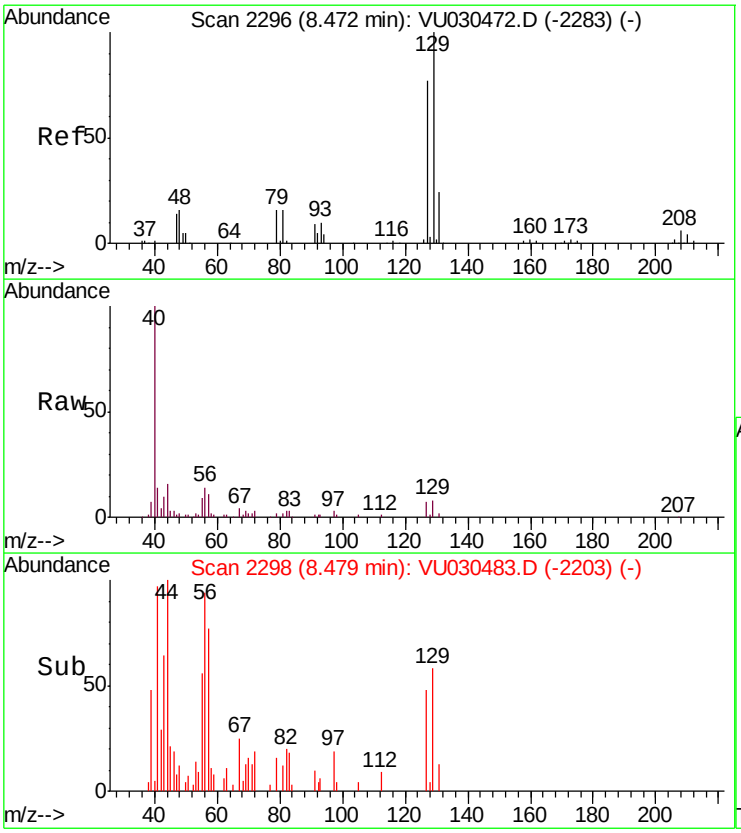

#48
2-Hexanone
Concen: 3.188 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 43 Resp: 17154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 42.5 | 63.7# |
| 57 | 11.8 | 15.0 | 22.6# |
| 100 | 4.2 | 7.4 | 11.2# |

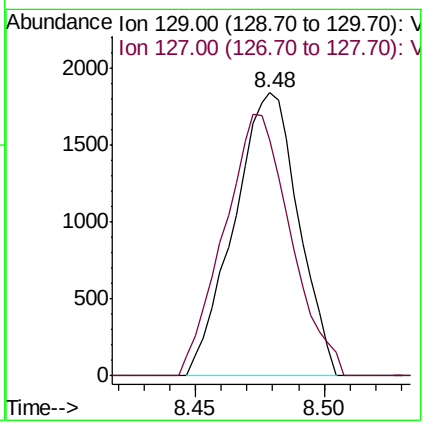


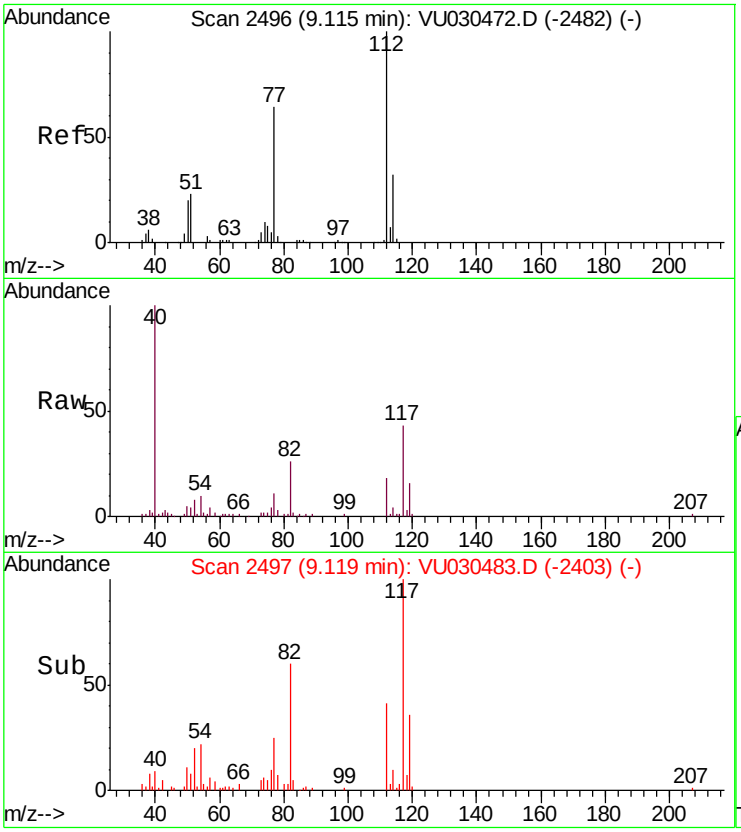




#49
Dibromochloromethane
Concen: 0.932 ug/L
RT: 8.48 min Scan# 2298
Delta R.T. 0.01 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion:129 Resp: 3199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 83.5 | 53.2 | 98.8 |



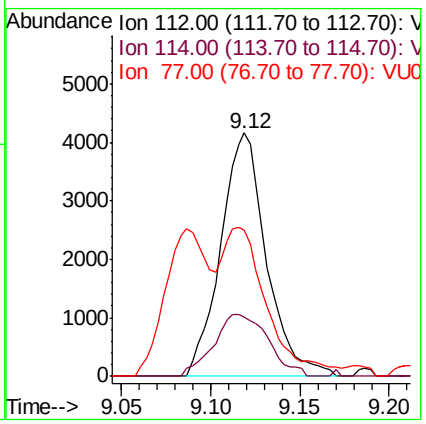


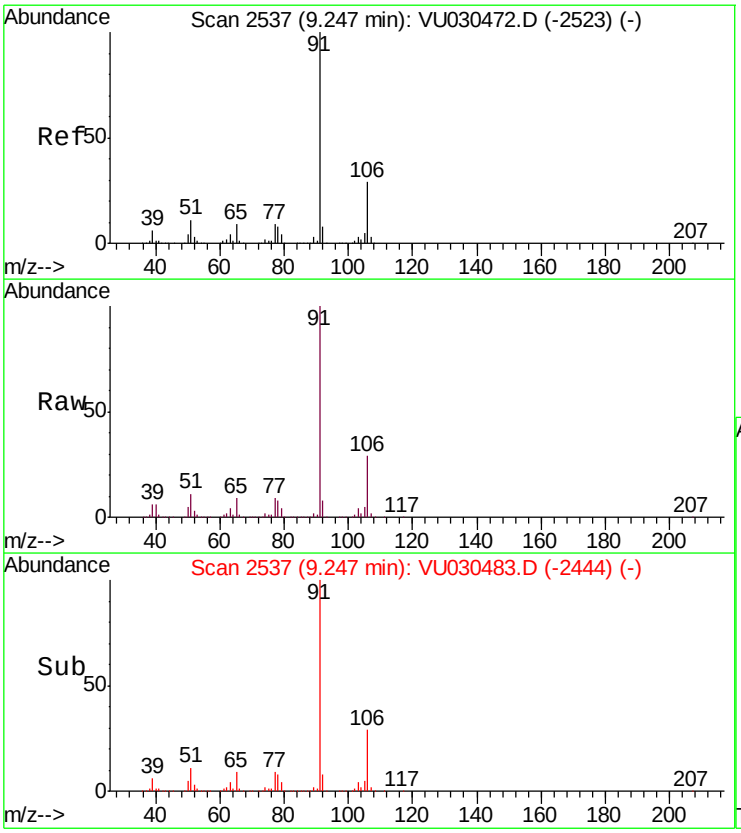

#51
Chlorobenzene
Concen: 0.852 ug/L
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion:112 Resp: 7382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 24.3 | 21.5 | 39.9 |
| 77 | 59.9 | 51.4 | 77.0 |

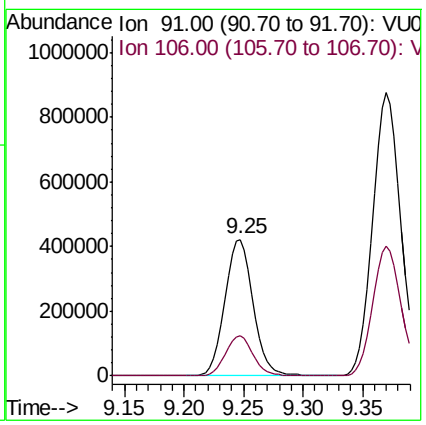


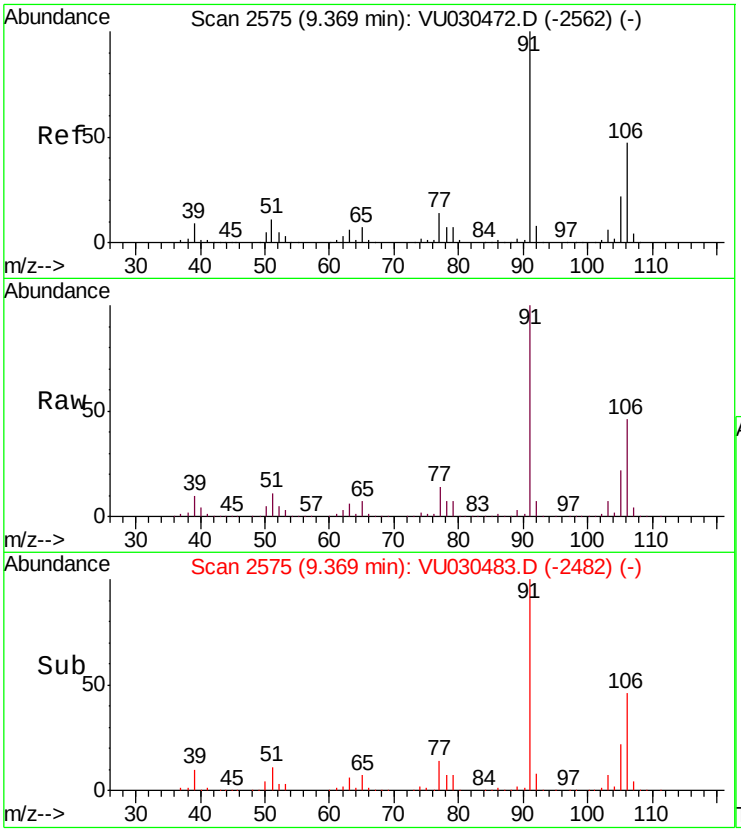




#52
Ethylbenzene
Concen: 44.893 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion: 91 Resp: 695084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 20.6 | 38.2 |



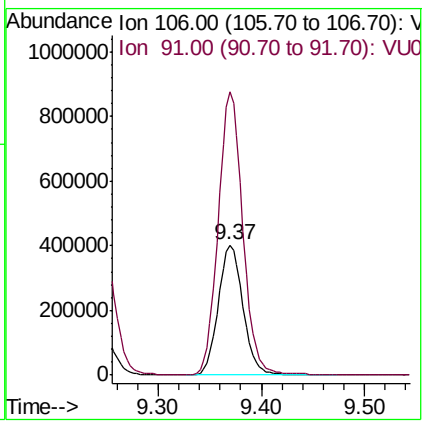


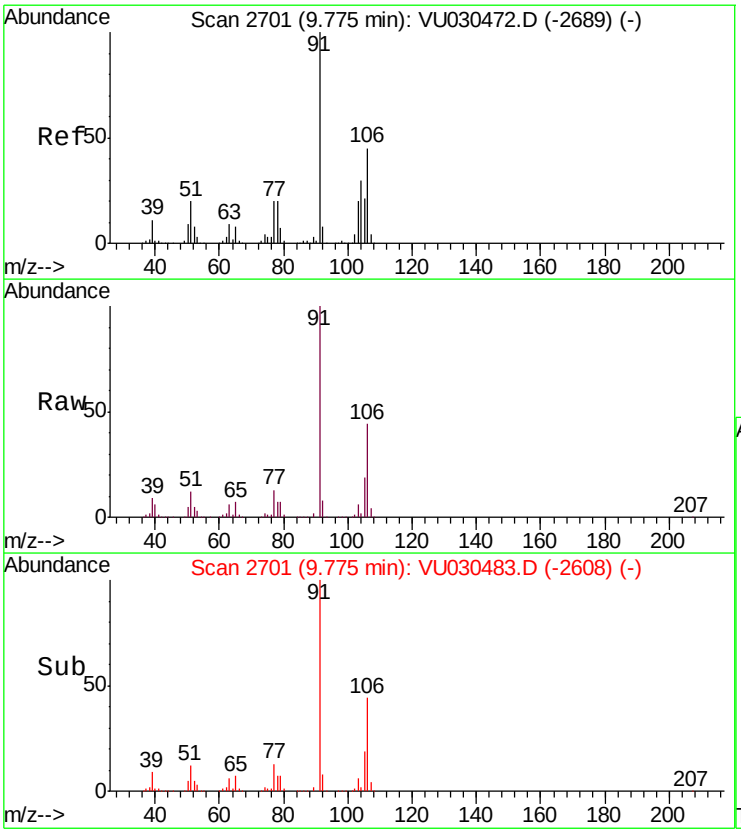

#53
m,p-Xylene
Concen: 119.924 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion:106 Resp: 670440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.0 | 151.2 | 280.8 |

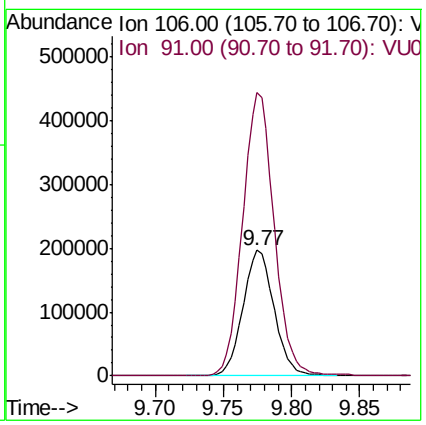


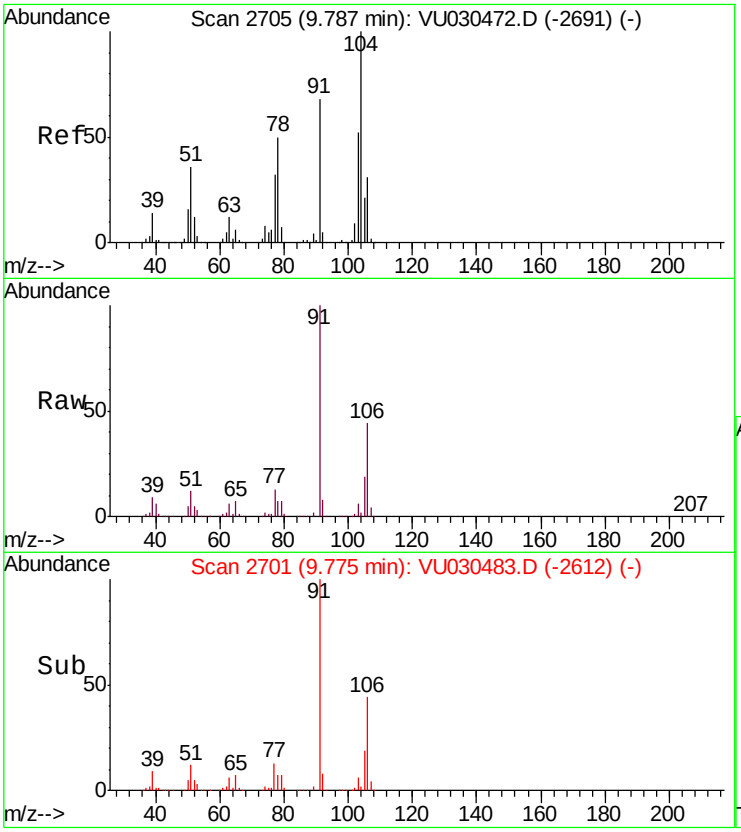




#54
o-xylene
Concen: 57.422 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion:106 Resp: 313235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 224.9 | 159.6 | 296.4 |



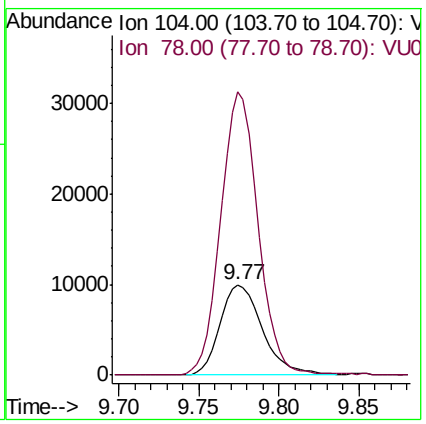


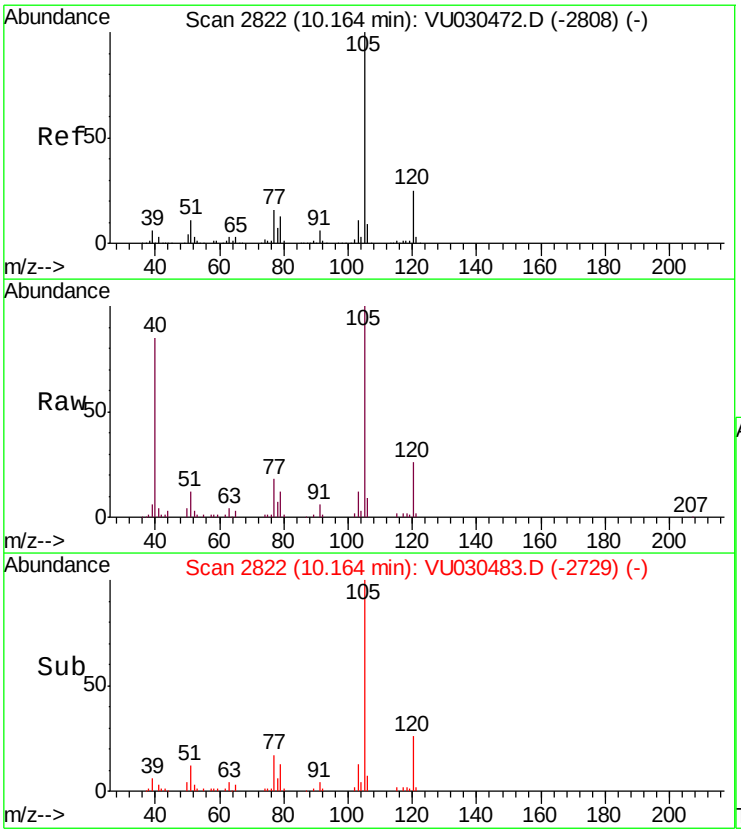

#55
Styrene
Concen: 1.920 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.01 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion:104 Resp: 18041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 314.0 | 35.1 | 65.3# |

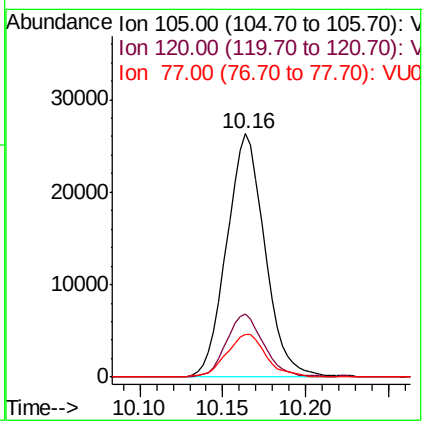


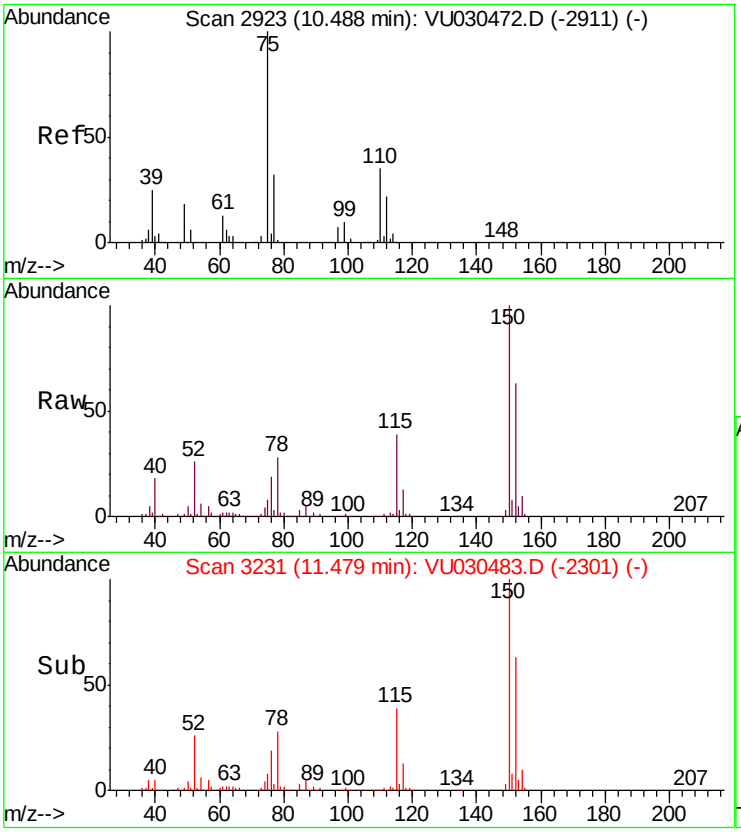




#56
Isopropylbenzene
Concen: 2.926 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion:105 Resp: 42261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.2 | 20.2 | 30.2 |
| 77 | 18.1 | 13.2 | 19.8 |



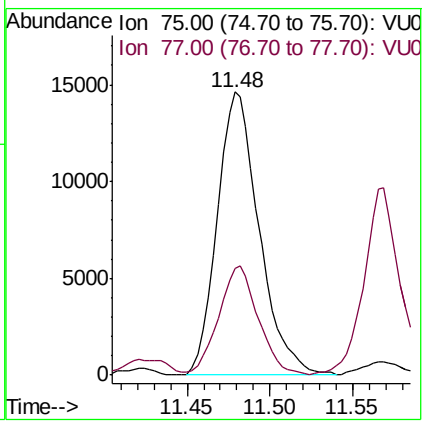


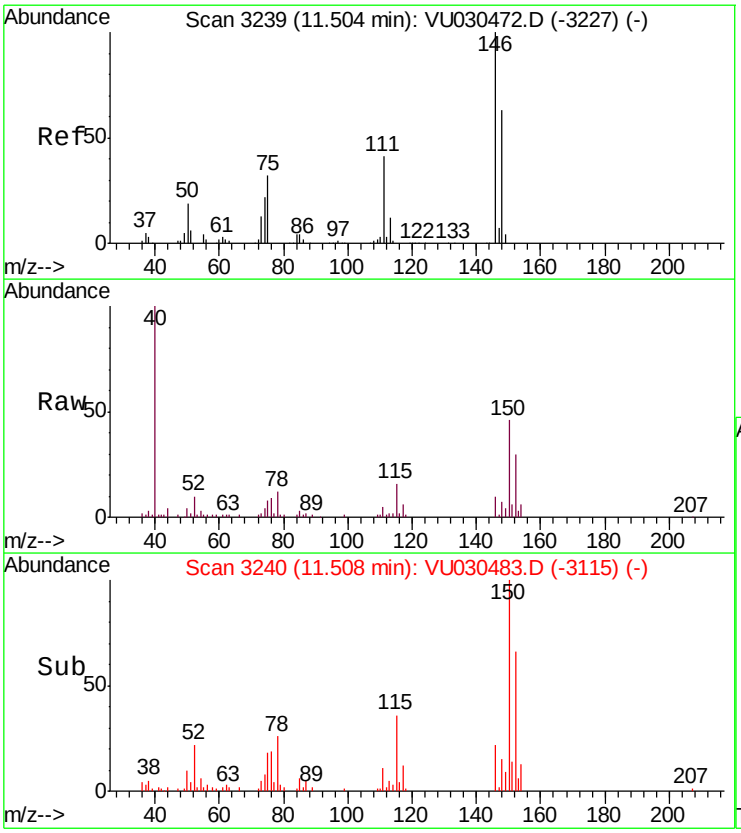

#59
1,2,3-Trichloropropane
Concen: 5.398 ug/L
RT: 11.48 min Scan# 3231
Delta R.T. 0.99 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :** MSVOA_U
**ClientSampleId :** DB6S1

Tgt Ion: 75 Resp: 25679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 36.4 | 25.4 | 38.2 |

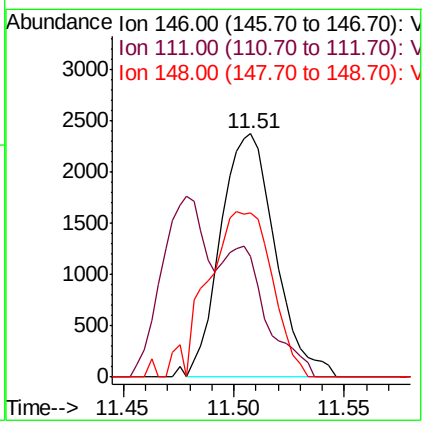


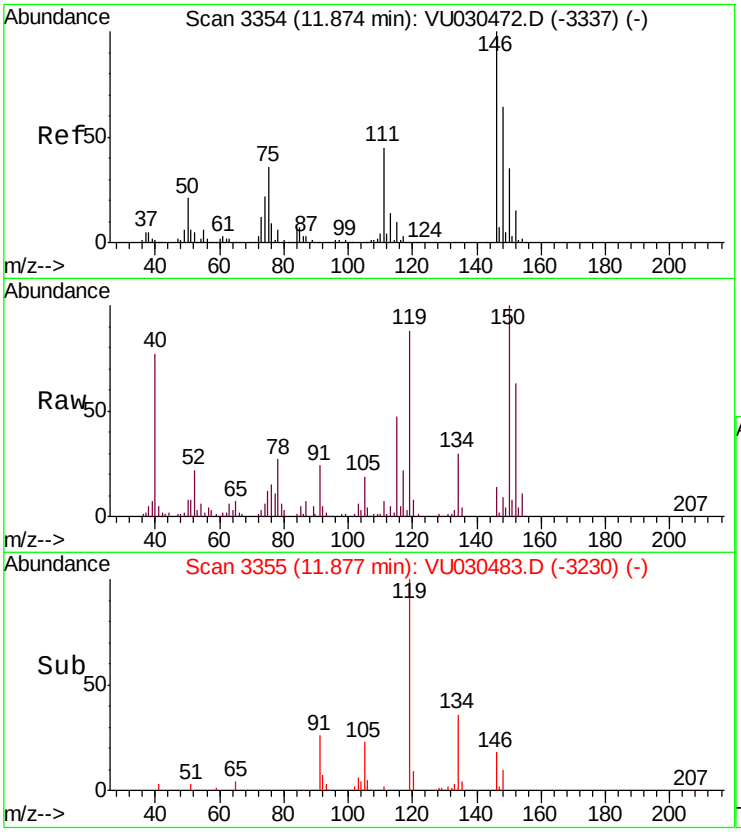




#63
1,4-Dichlorobenzene
Concen: 0.660 ug/L
RT: 11.51 min Scan# 3240
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion:146 Resp: 4069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.8 | 28.7 | 53.3 |
| 148 | 67.5 | 44.3 | 82.3 |



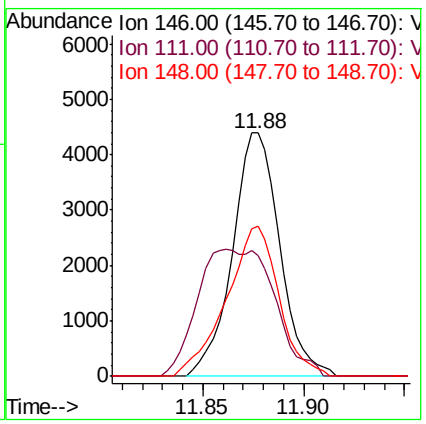


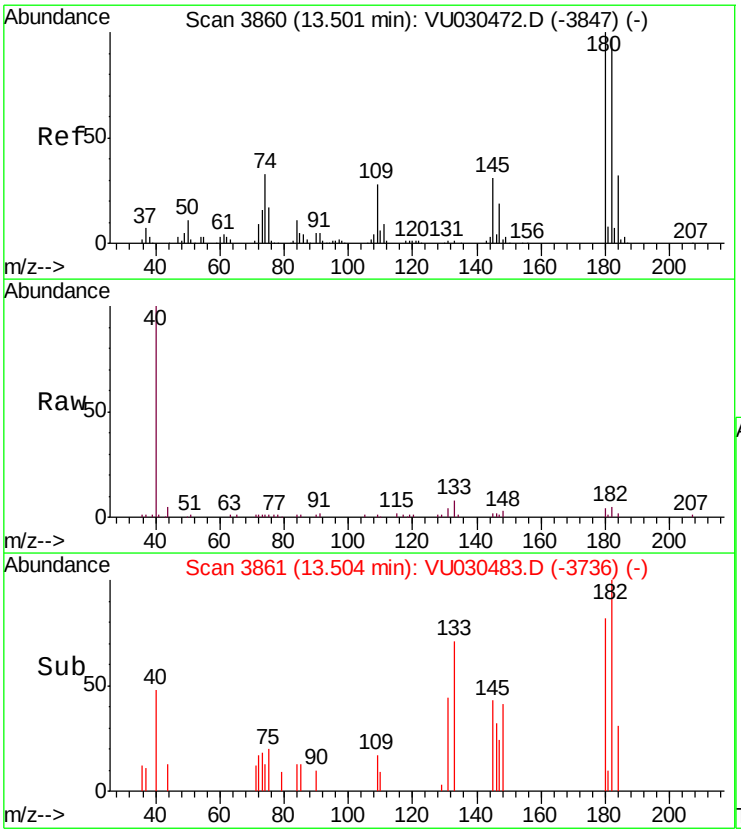

#65
1,2-Dichlorobenzene
Concen: 1.193 ug/L
RT: 11.88 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion:146 Resp: 7226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.8 | 34.9 | 52.3 |
| 148 | 61.6 | 51.2 | 76.8 |

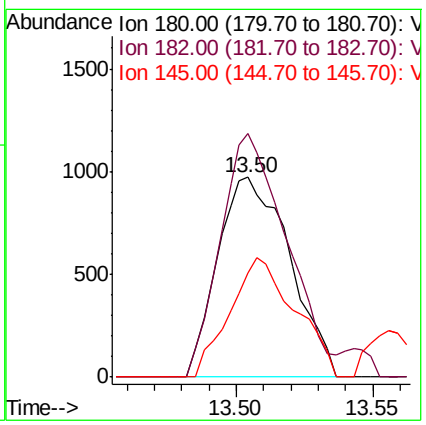


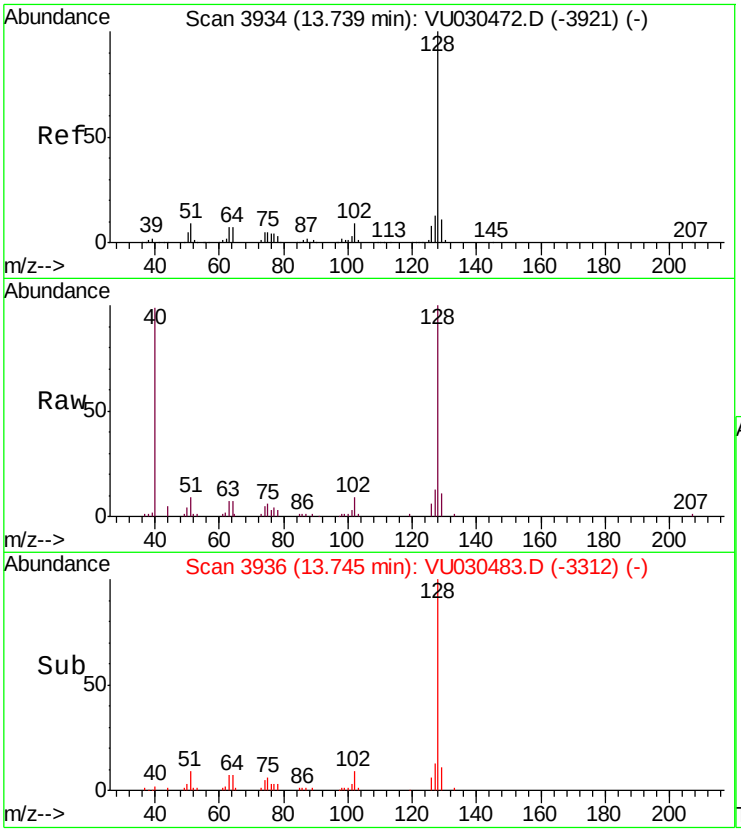




#68
1,2,4-trichlorobenzene
Concen: 0.458 ug/L
RT: 13.50 min Scan# 3861
Delta R.T. 0.00 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

Tgt Ion:180 Resp: 1784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 112.2 | 76.1 | 114.1 |
| 145 | 53.9 | 24.5 | 36.7# |






#69
Naphthalene
Concen: 3.500 ug/L
RT: 13.75 min Scan# 3936
Delta R.T. 0.01 min
Lab File: VU030483.D
Acq: 27 Mar 2019 15:07

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6S1

Tgt Ion:128 Resp: 48482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.4 | 15.6 |
| 129 | 10.5 | 8.4 | 12.6 |