Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD101420\
Data File : VD067265.D
Acq On : 14 Oct 2020 12:32
Operator : VA/SY
Sample : L4214-03 2.5PPBMDL
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

Quant Time: Oct 15 07:54:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 14 03:30:30 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.98 | 168 | 245736 | 50.00 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.87 | 114 | 397800 | 50.00 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.65 | 117 | 386716 | 50.00 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152 | 195747 | 50.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.33 | 65 | 148817 | 60.45 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 120.90% | | | | |
| 35) Dibromofluoromethane | 7.92 | 113 | 138730 | 52.40 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 104.80% | | | | |
| 50) Toluene-d8 | 10.34 | 98 | 475939 | 49.68 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 99.36% | | | | |
| 62) 4-Bromofluorobenzene | 12.64 | 95 | 171379 | 51.44 | ug/l | | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 102.88% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.99 | 85 | 6756 | 3.031 | ug/l | | 90 |
| 3) Chloromethane | 2.21 | 50 | 5170 | 3.343 | ug/l | # | 70 |
| 4) Vinyl Chloride | 2.35 | 62 | 5617 | 3.310 | ug/l | | 91 |
| 5) Bromomethane | 2.77 | 94 | 4905 | 3.739 | ug/l | | 98 |
| 6) Chloroethane | 2.91 | 64 | 3499 | 3.311 | ug/l | | 93 |
| 7) Trichlorofluoromethane | 3.27 | 101 | 13980 | 3.272 | ug/l | | 94 |
| 8) Diethyl Ether | 3.71 | 74 | 2993 | 3.061 | ug/l | | 66 |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 7402 | 3.261 | ug/l | | 91 |
| 10) Methyl Iodide | 4.30 | 142 | 5777 | 2.759 | ug/l | # | 93 |
| 11) Tert butyl alcohol | 5.22 | 59 | 5742m | 32.115 | ug/l | | |
| 12) 1,1-Dichloroethene | 4.07 | 96 | 6044 | 2.980 | ug/l | # | 68 |
| 13) Acrolein | 3.94 | 56 | 2292m | 17.991 | ug/l | | |
| 14) Allyl chloride | 4.71 | 41 | 7402 | 3.187 | ug/l | # | 58 |
| 15) Acrylonitrile | 5.43 | 53 | 6154m | 18.863 | ug/l | | |
| 16) Acetone | 4.16 | 43 | 7642 | 22.164 | ug/l | # | 70 |
| 17) Carbon Disulfide | 4.41 | 76 | 18502 | 3.200 | ug/l | # | 94 |
| 18) Methyl Acetate | 4.73 | 43 | 4965 | 6.313 | ug/l | # | 69 |
| 19) Methyl tert-butyl Ether | 5.49 | 73 | 13212 | 3.276 | ug/l | # | 91 |
| 20) Methylene Chloride | 4.97 | 84 | 13537 | 5.207 | ug/l | # | 95 |
| 21) trans-1,2-Dichloroethene | 5.48 | 96 | 7168 | 3.071 | ug/l | | 91 |
| 22) Diisopropyl ether | 6.37 | 45 | 12867 | 3.033 | ug/l | # | 82 |
| 23) Vinyl Acetate | 6.31 | 43 | 30929 | 12.813 | ug/l | | 97 |
| 24) 1,1-Dichloroethane | 6.27 | 63 | 11323 | 3.118 | ug/l | | 97 |
| 25) 2-Butanone | 7.21 | 43 | 7693 | 19.574 | ug/l | | 95 |
| 26) 2,2-Dichloropropane | 7.21 | 77 | 12304 | 3.287 | ug/l | | 83 |
| 27) cis-1,2-Dichloroethene | 7.21 | 96 | 8263 | 3.230 | ug/l | | 98 |
| 28) Bromochloromethane | 7.55 | 49 | 4696m | 3.791 | ug/l | | |
| 29) Tetrahydrofuran | 7.57 | 42 | 4367 | 19.989 | ug/l | | 93 |
| 30) Chloroform | 7.71 | 83 | 13685 | 3.154 | ug/l | | 85 |
| 31) Cyclohexane | 7.98 | 56 | 12135 | 4.280 | ug/l | # | 68 |
| 32) 1,1,1-Trichloroethane | 7.91 | 97 | 13033 | 3.062 | ug/l | | 89 |
| 36) 1,1-Dichloropropene | 8.11 | 75 | 10505 | 3.116 | ug/l | | 93 |
| 37) Ethyl Acetate | 7.30 | 43 | 3980 | 4.012 | ug/l | # | 69 |
| 38) Carbon Tetrachloride | 8.10 | 117 | 12165 | 2.823 | ug/l | | 94 |

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Sample : L4214-03 2.5PPBMDL
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Manual Integrations APPROVED
MMDadoda
10/15/2020 12:18:48 PM

Quant Time: Oct 15 07:54:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 14 03:30:30 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 39) Methylcyclohexane | 9.36 | 83 | 9416 | 2.671 ug/l | # | 85 |
| 40) Benzene | 8.36 | 78 | 27244 | 2.945 ug/l | | 96 |
| 41) Methacrylonitrile | 7.53 | 41 | 2749 | 5.128 ug/l | # | 58 |
| 42) 1,2-Dichloroethane | 8.43 | 62 | 9694 | 3.349 ug/l | | 98 |
| 43) Isopropyl Acetate | 8.46 | 43 | 6504 | 3.304 ug/l | # | 76 |
| 44) Trichloroethene | 9.11 | 130 | 9262 | 3.127 ug/l | | 80 |
| 45) 1,2-Dichloropropane | 9.39 | 63 | 5948 | 2.775 ug/l | | 94 |
| 46) Dibromomethane | 9.48 | 93 | 4501 | 3.370 ug/l | | 93 |
| 47) Bromodichloromethane | 9.66 | 83 | 10928 | 3.054 ug/l | | 92 |
| 48) Methyl methacrylate | 9.46 | 41 | 3581 | 3.744 ug/l | | 87 |
| 49) 1,4-Dioxane | 9.47 | 88 | 1137 | 80.879 ug/l | # | 73 |
| 51) 4-Methyl-2-Pentanone | 10.23 | 43 | 15524 | 15.812 ug/l | | 94 |
| 52) Toluene | 10.41 | 92 | 18800 | 2.984 ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.63 | 75 | 10175 | 3.237 ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.09 | 75 | 11366 | 3.090 ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 10.80 | 97 | 6544 | 3.593 ug/l | # | 89 |
| 56) Ethyl methacrylate | 10.66 | 69 | 6024 | 3.189 ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.95 | 76 | 9765 | 3.369 ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.94 | 63 | 14528 | 14.993 ug/l | | 100 |
| 59) 2-Hexanone | 10.99 | 43 | 11474 | 17.103 ug/l | | 96 |
| 60) Dibromochloromethane | 11.15 | 129 | 8685 | 3.270 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.24 | 107 | 6225 | 3.467 ug/l | | 98 |
| 64) Tetrachloroethene | 10.88 | 164 | 8615 | 3.075 ug/l | # | 85 |
| 65) Chlorobenzene | 11.67 | 112 | 22524 | 3.037 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.74 | 131 | 7969 | 2.704 ug/l | | 87 |
| 67) Ethyl Benzene | 11.75 | 91 | 32870 | 2.586 ug/l | # | 84 |
| 68) m/p-Xylenes | 11.86 | 106 | 25066 | 5.121 ug/l | | 94 |
| 69) o-Xylene | 12.19 | 106 | 11729 | 2.587 ug/l | | 88 |
| 70) Styrene | 12.20 | 104 | 19408 | 2.487 ug/l | | 97 |
| 71) Bromoform | 12.36 | 173 | 5027 | 3.175 ug/l | # | 94 |
| 73) Isopropylbenzene | 12.48 | 105 | 30254 | 2.435 ug/l | | 98 |
| 74) N-amyl acetate | 12.30 | 43 | 5837 | 3.111 ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.73 | 83 | 5523 | 2.901 ug/l | | 92 |
| 76) 1,2,3-Trichloropropane | 12.79 | 75 | 3901m | 2.875 ug/l | | |
| 77) Bromobenzene | 12.77 | 156 | 8901 | 2.874 ug/l | | 91 |
| 78) n-propylbenzene | 12.83 | 91 | 39667 | 2.756 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.91 | 91 | 21631 | 2.591 ug/l | | 94 |
| 80) 1,3,5-Trimethylbenzene | 12.97 | 105 | 26994 | 2.500 ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75 | 1739m | 2.907 ug/l | | |
| 82) 4-Chlorotoluene | 13.01 | 91 | 23041 | 2.601 ug/l | | 99 |
| 83) tert-Butylbenzene | 13.23 | 119 | 22439 | 2.461 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.27 | 105 | 26160 | 2.452 ug/l | | 96 |
| 85) sec-Butylbenzene | 13.41 | 105 | 31315 | 2.503 ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.52 | 119 | 28786 | 2.437 ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.52 | 146 | 18829 | 3.158 ug/l | | 95 |
| 88) 1,4-Dichlorobenzene | 13.60 | 146 | 18466 | 3.126 ug/l | | 82 |
| 89) n-Butylbenzene | 13.85 | 91 | 26050 | 2.507 ug/l | | 97 |
| 90) Hexachloroethane | 14.12 | 117 | 5690 | 2.761 ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 13.90 | 146 | 16304 | 3.131 ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75 | 1116 | 3.227 ug/l | | 76 |

Quantitation Report (QT Reviewed)

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Operator : VA/SY
Sample : L4214-03 2.5PPBMDL
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

Quant Time: Oct 15 07:54:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 14 03:30:30 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180 | 10763 | 3.065 ug/l | 96 |
| 94) Hexachlorobutadiene | 15.28 | 225 | 6631 | 3.041 ug/l | 98 |
| 95) Naphthalene | 15.41 | 128 | 18163 | 3.151 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180 | 9324 | 3.074 ug/l | 98 |

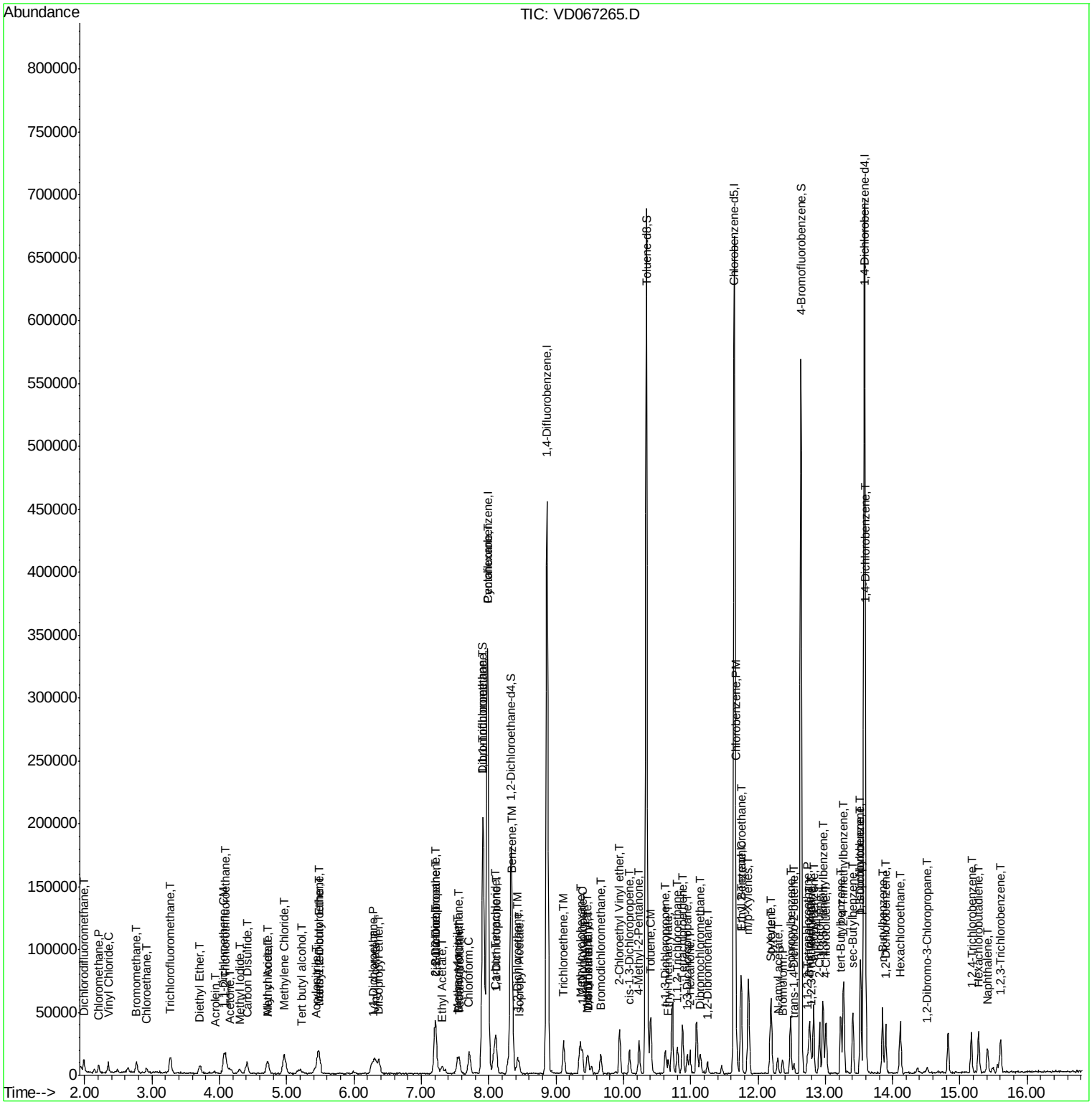
(#) = qualifier out of range (m) = manual integration (+) = signals summed

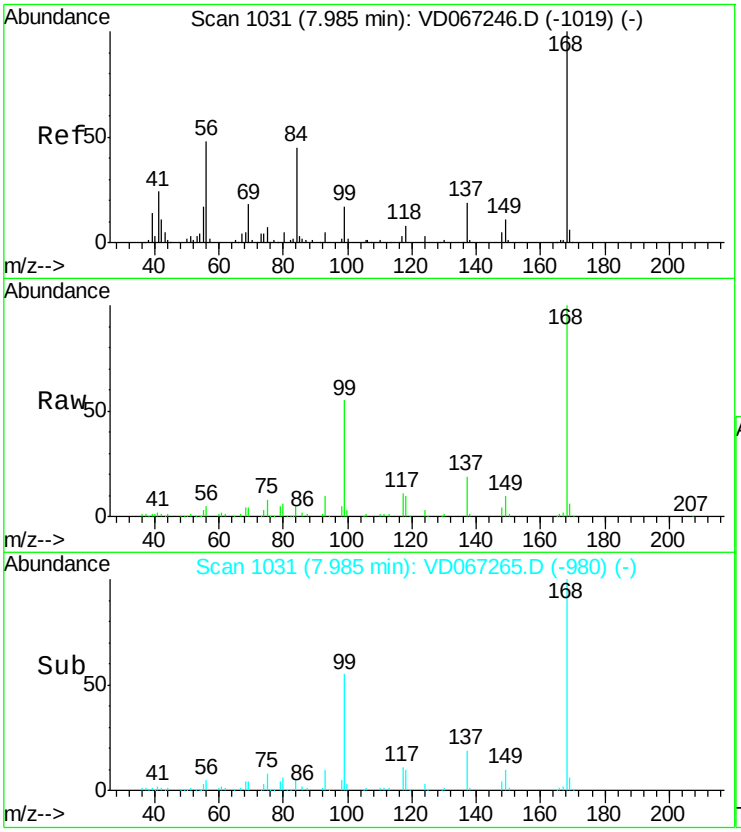
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD101420\
Data File : VD067265.D
Acq On : 14 Oct 2020 12:32
Operator : VA/SY
Sample : L4214-03 2.5PPBMDL
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 07:54:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 14 03:30:30 2020
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM





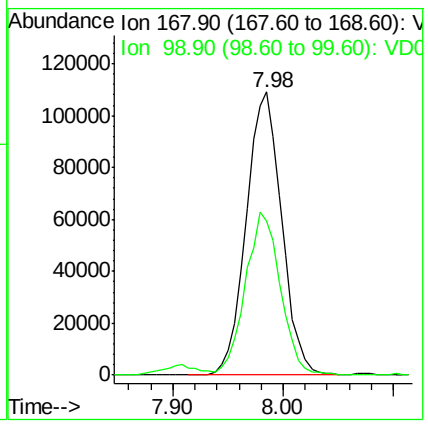

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

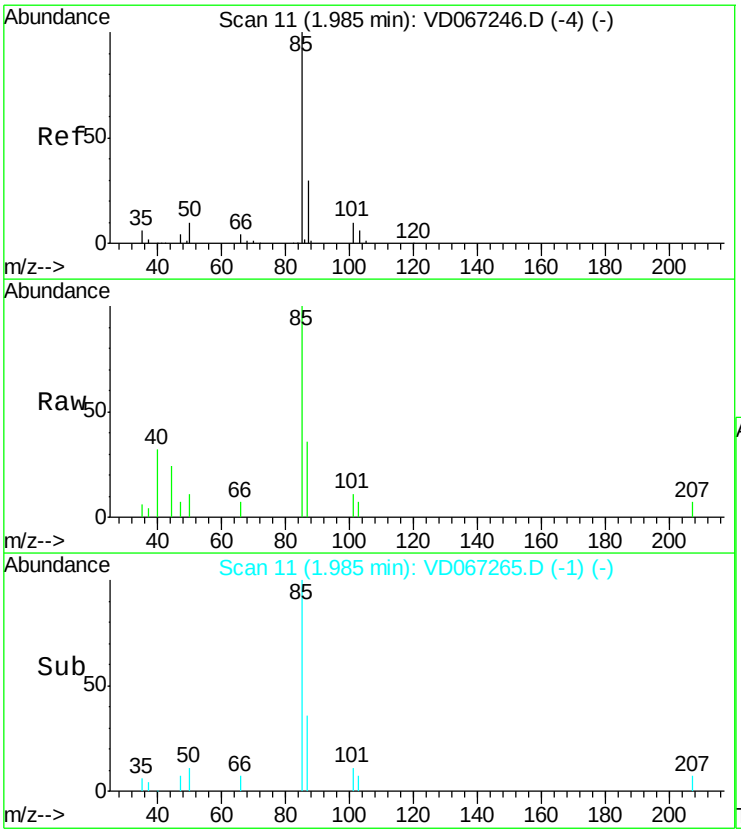
Tgt Ion:168 Resp: 245736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.2 | 45.9 | 68.9 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

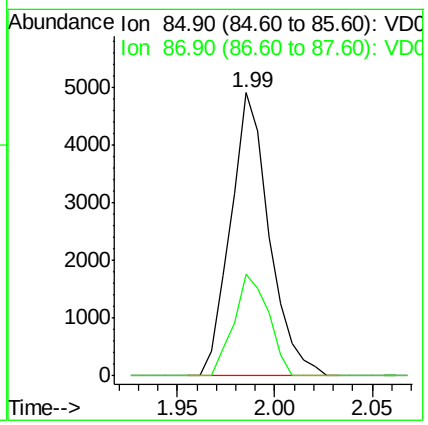


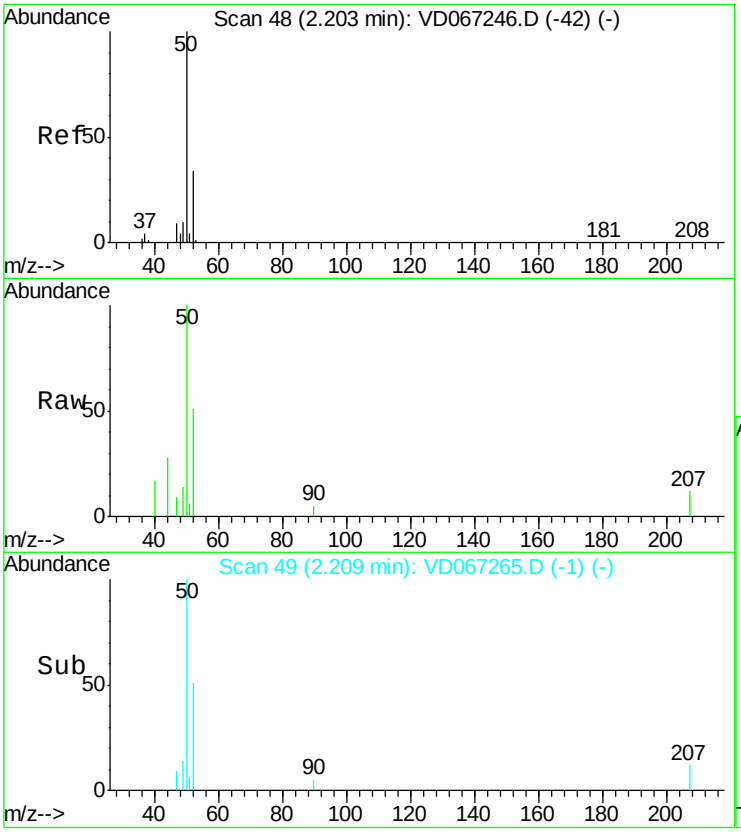




#2
Dichlorodifluoromethane
Concen: 3.031 ug/l
RT: 1.99 min Scan# 11
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 85 Resp: 6756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.0 | 15.2 | 45.6 |

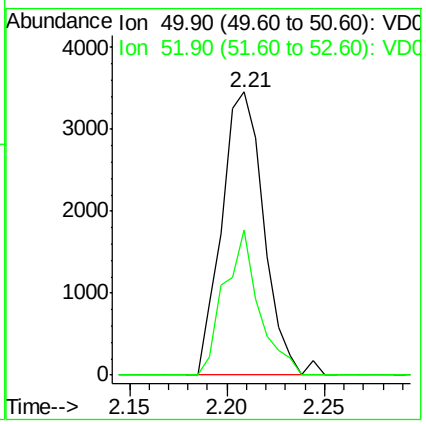





#3
Chloromethane
Concen: 3.343 ug/l
RT: 2.21 min Scan# 49
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

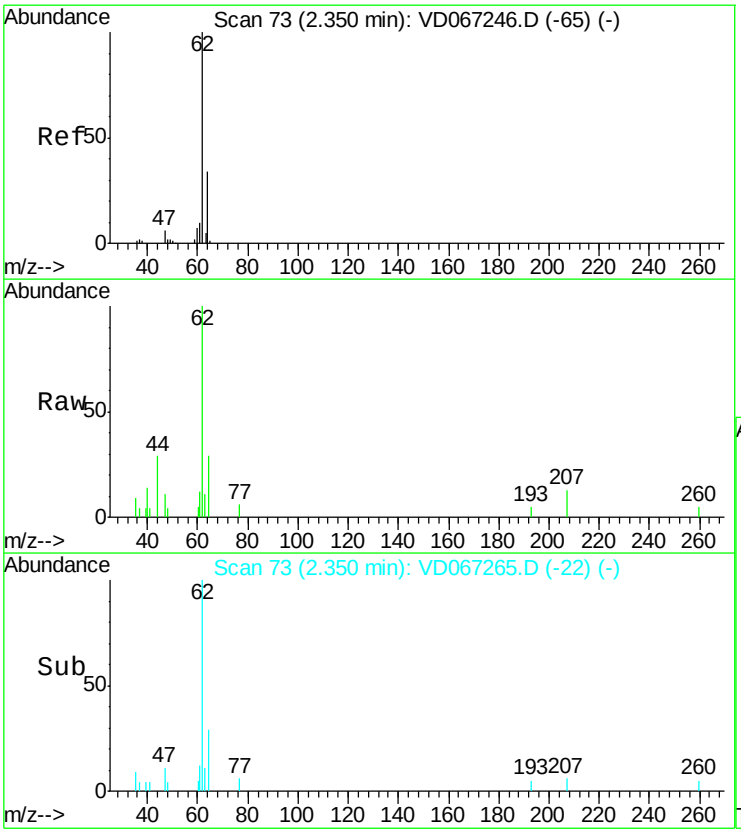
Tgt Ion: 50 Resp: 5170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 51.1 | 27.1 | 40.7# |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

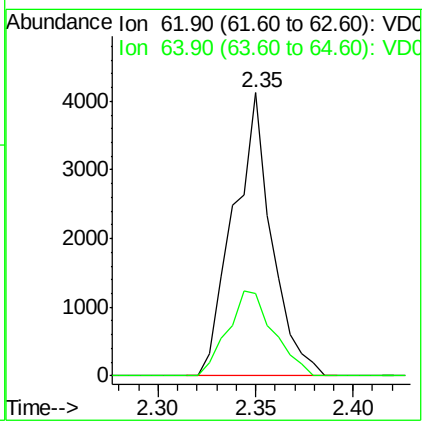
**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

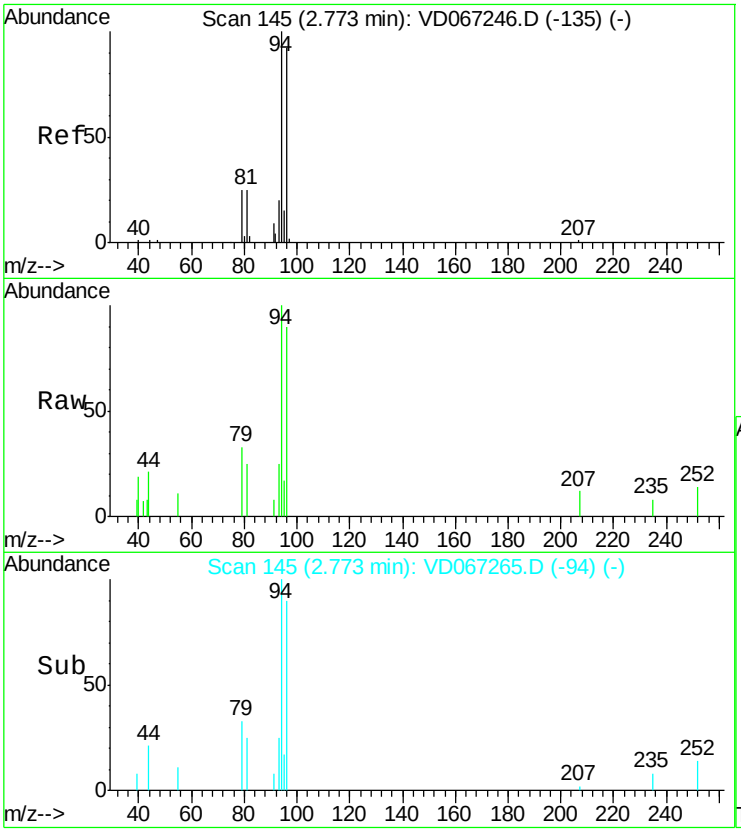



#4
Vinyl Chloride
Concen: 3.310 ug/l
RT: 2.35 min Scan# 73
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 62 Resp: 5617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.1 | 27.4 | 41.0 |





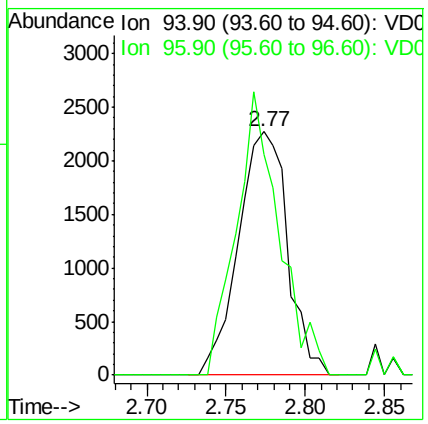

#5
Bromomethane
Concen: 3.739 ug/l
RT: 2.77 min Scan# 145
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

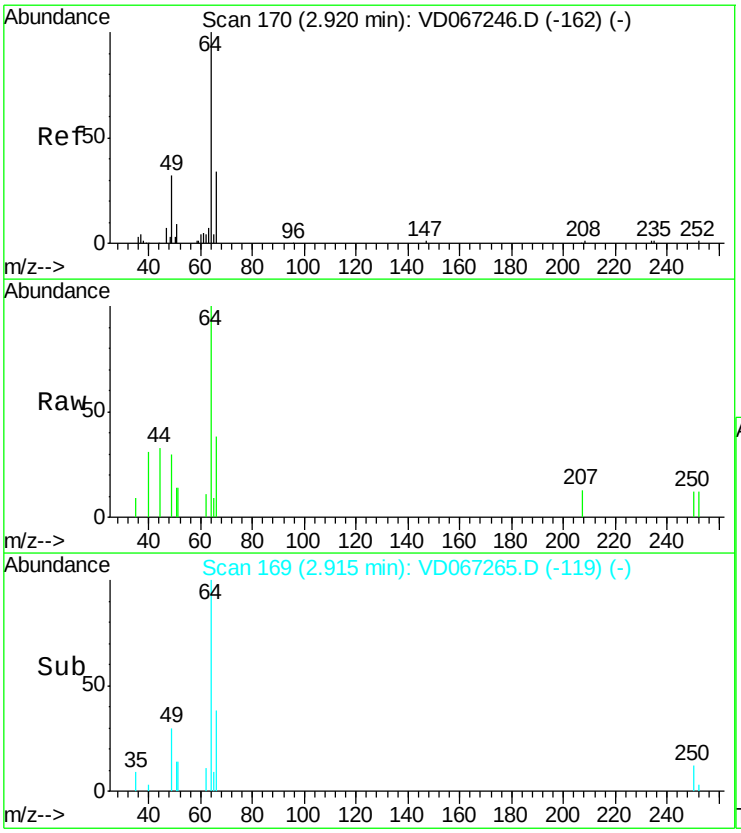
Tgt Ion: 94 Resp: 4905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.5 | 73.8 | 110.6 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

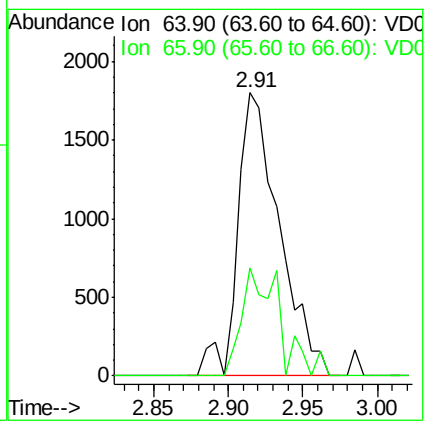


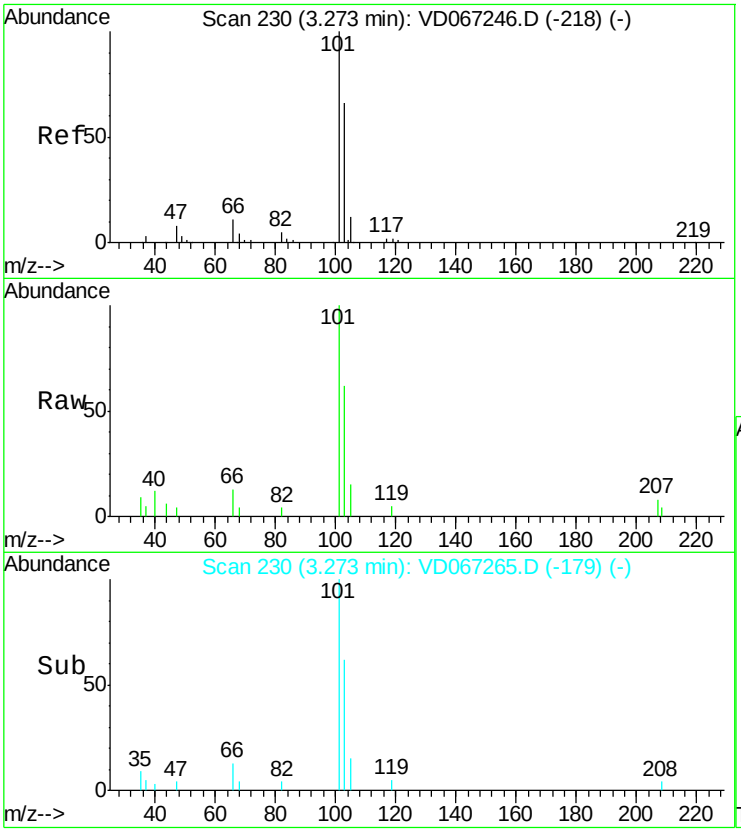




#6
Chloroethane
Concen: 3.311 ug/l
RT: 2.91 min Scan# 169
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 64 Resp: 3499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 38.1 | 27.4 | 41.0 |





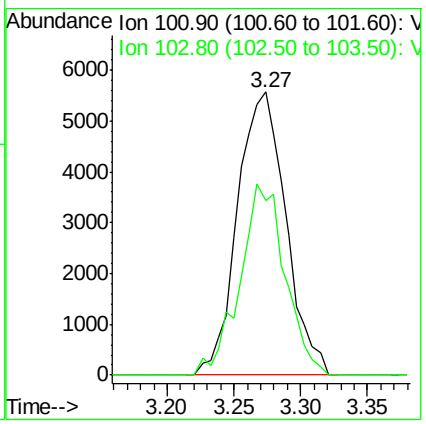

#7
Trichlorofluoromethane
Concen: 3.272 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

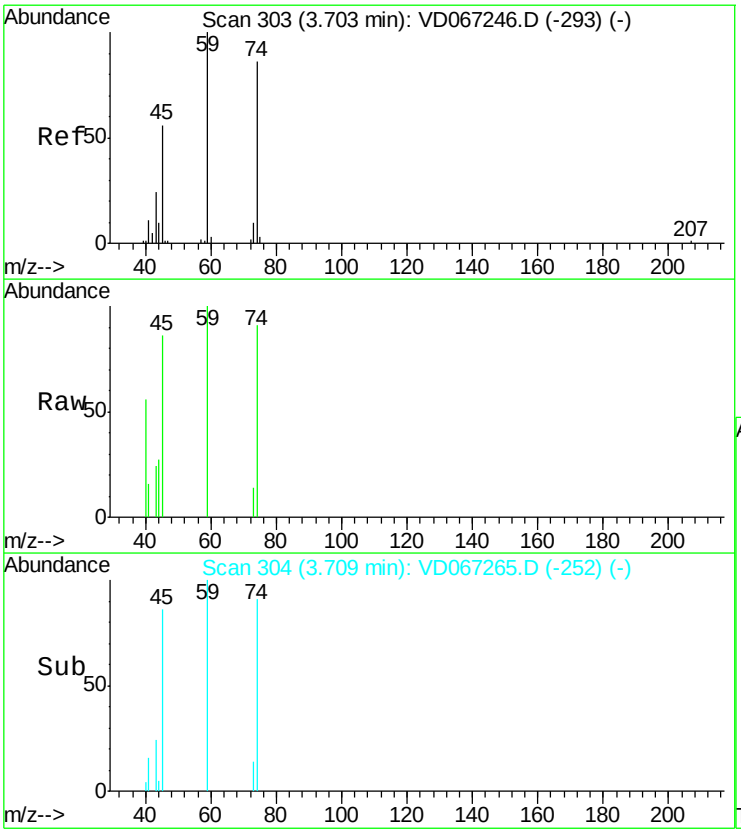
Tgt Ion:101 Resp: 13980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.6 | 53.1 | 79.7 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

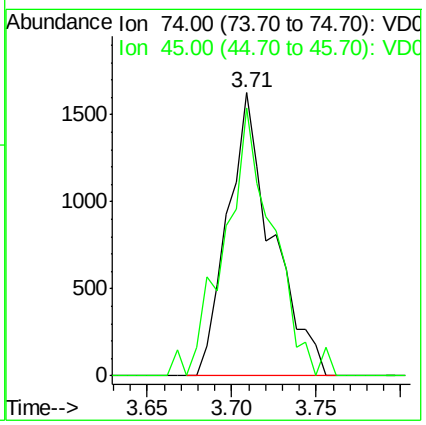


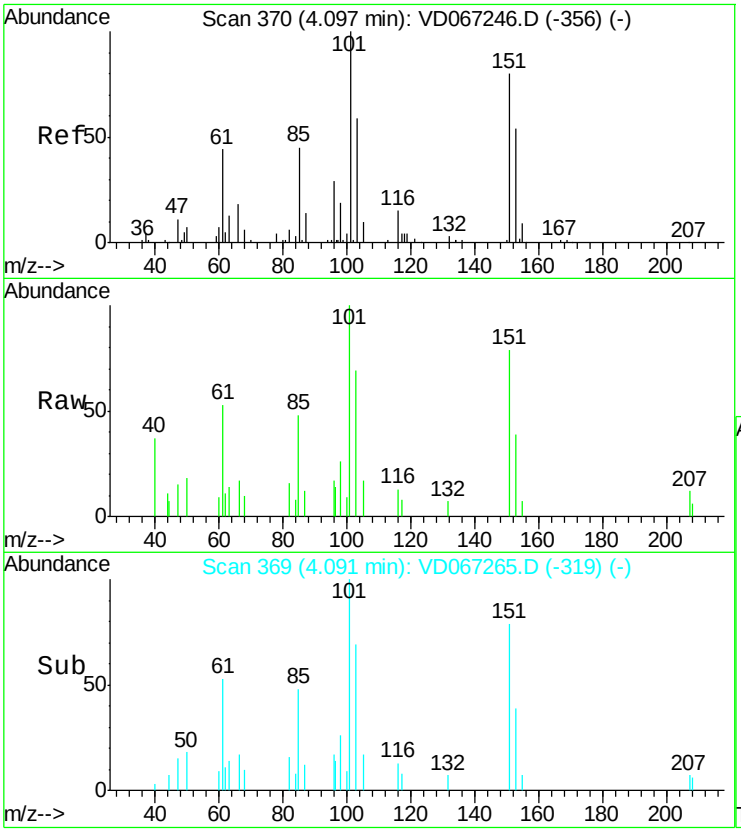




#8
Diethyl Ether
Concen: 3.061 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 74 Resp: 2993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 102.9 | 37.0 | 111.1 |

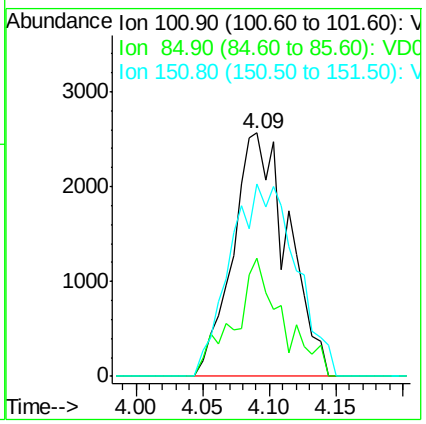





#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.261 ug/l
RT: 4.09 min Scan# 369
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:101 Resp: 7402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.4 | 34.2 | 51.4 |
| 151 | 94.3 | 66.3 | 99.5 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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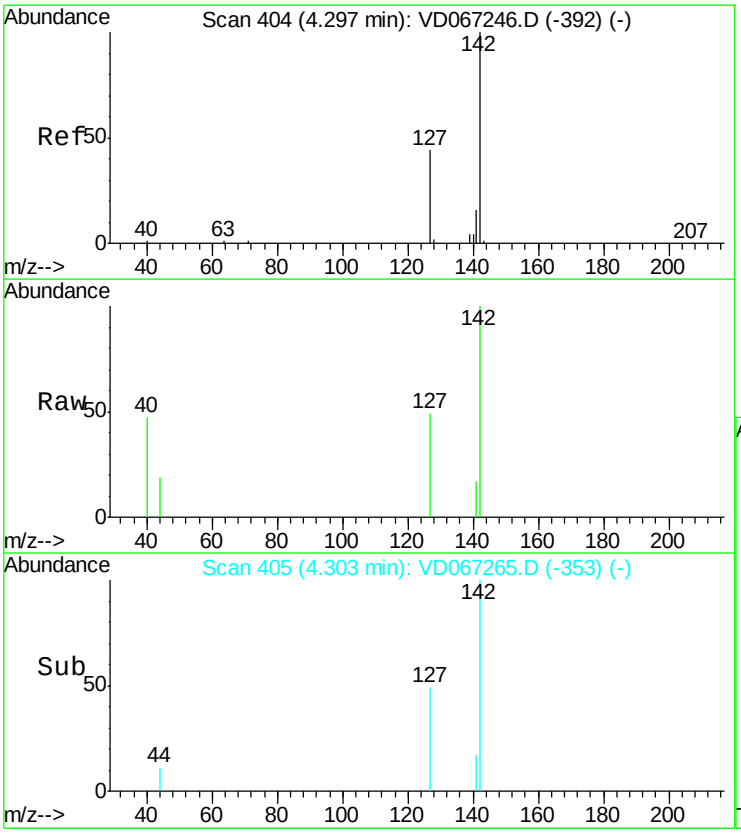
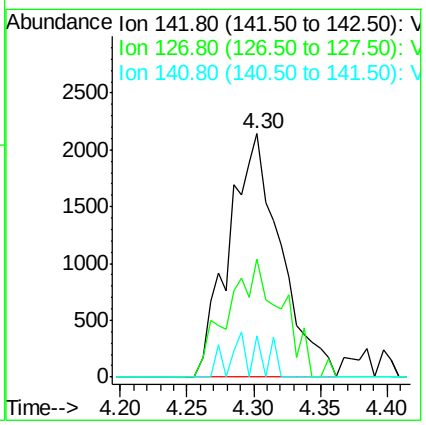
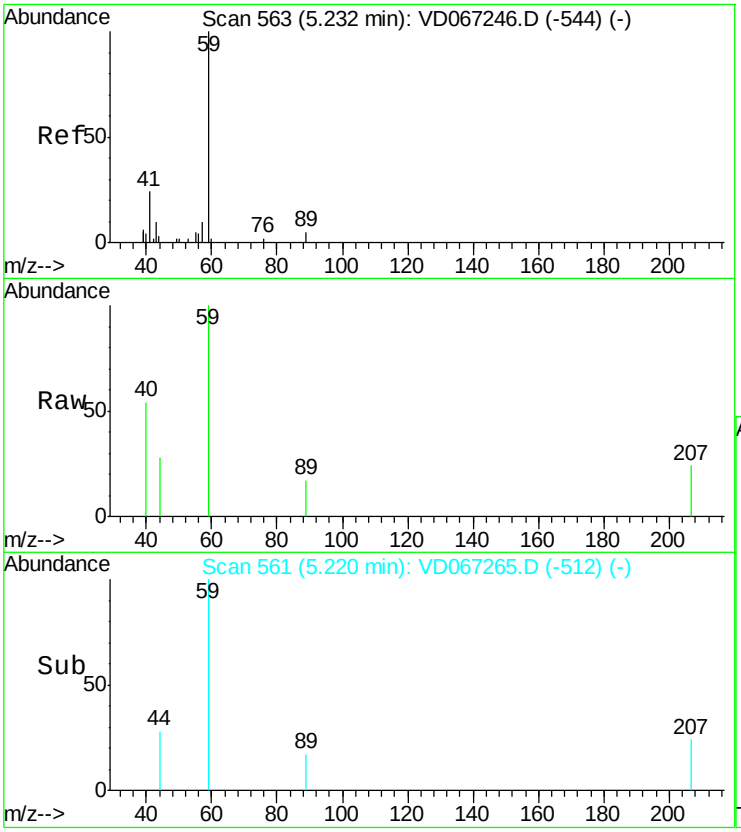



#10
Methyl Iodide
Concen: 2.759 ug/l
RT: 4.30 min Scan# 405
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:142 Resp: 5777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.9 | 38.4 | 57.6 |
| 141 | 5.6 | 11.6 | 17.4# |






#11
Tert butyl alcohol
Concen: 32.115 ug/l m
RT: 5.22 min Scan# 561
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 59 Resp: 5742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 5.1 | 7.7# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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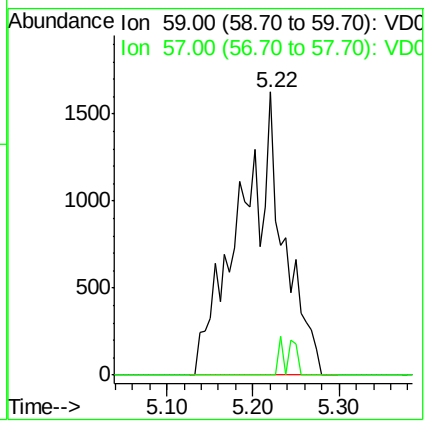
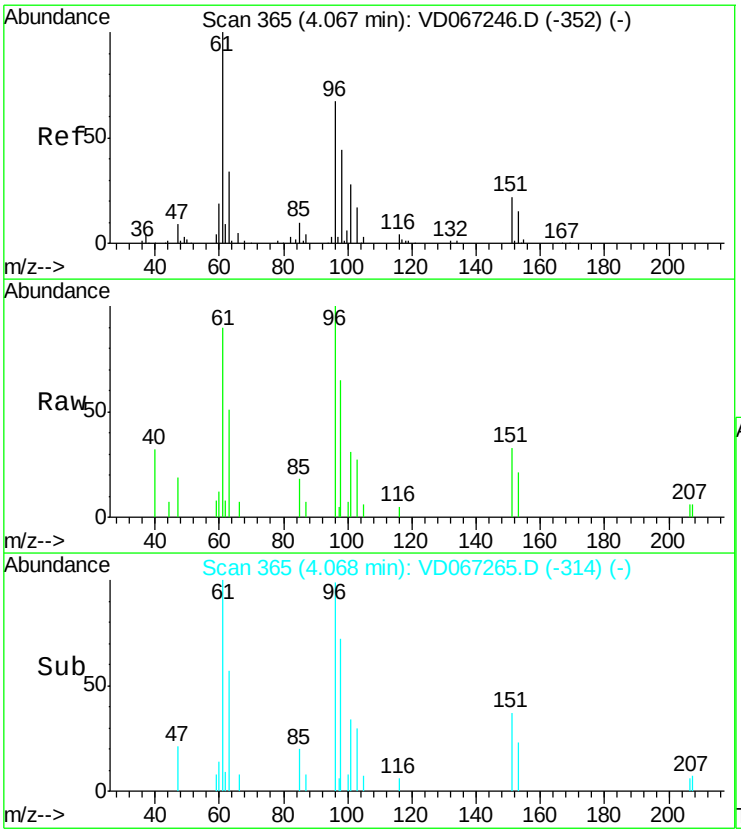
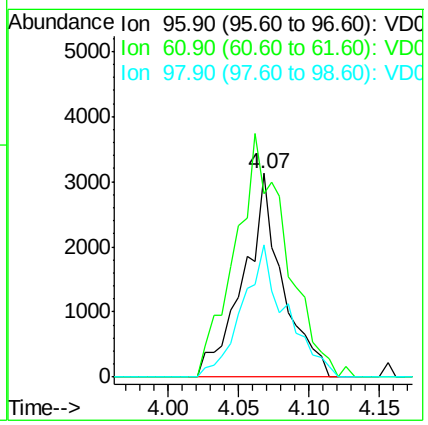


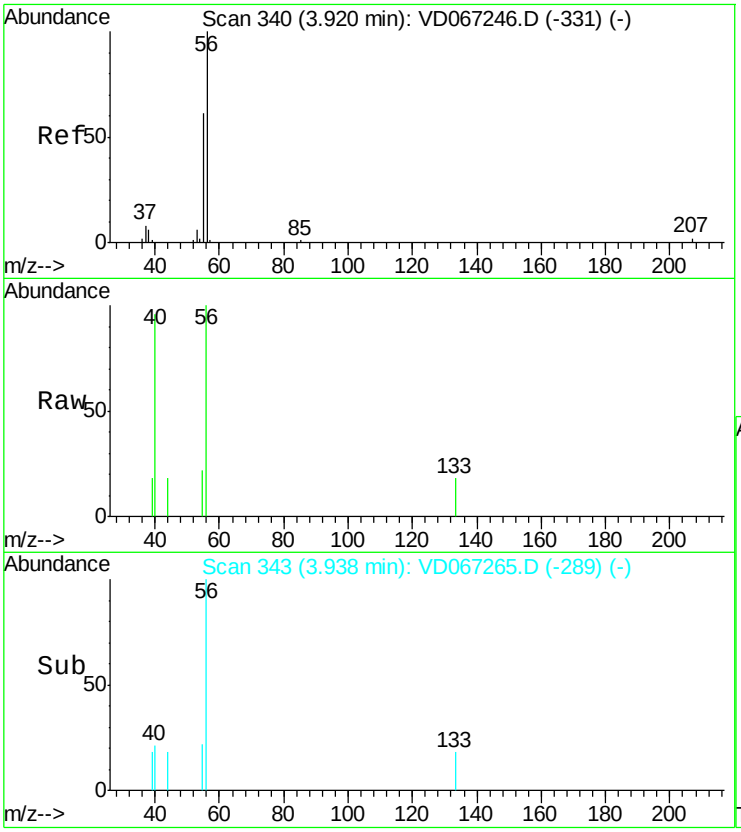




#12
1,1-Dichloroethene
Concen: 2.980 ug/l
RT: 4.07 min Scan# 365
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 96 Resp: 6044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 90.1 | 118.6 | 177.8# |
| 98 | 65.2 | 51.8 | 77.6 |

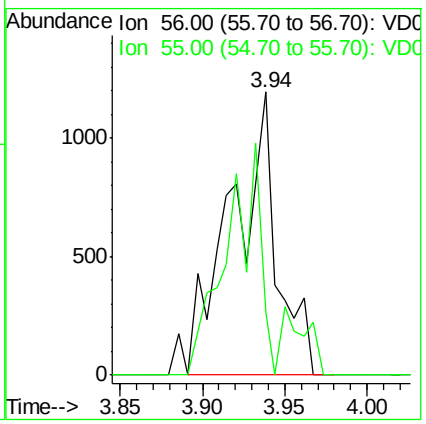





#13
Acrolein
Concen: 17.991 ug/l m
RT: 3.94 min Scan# 343
Delta R.T. 0.02 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 56 Resp: 2292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 0.0 | 56.0 | 84.0# |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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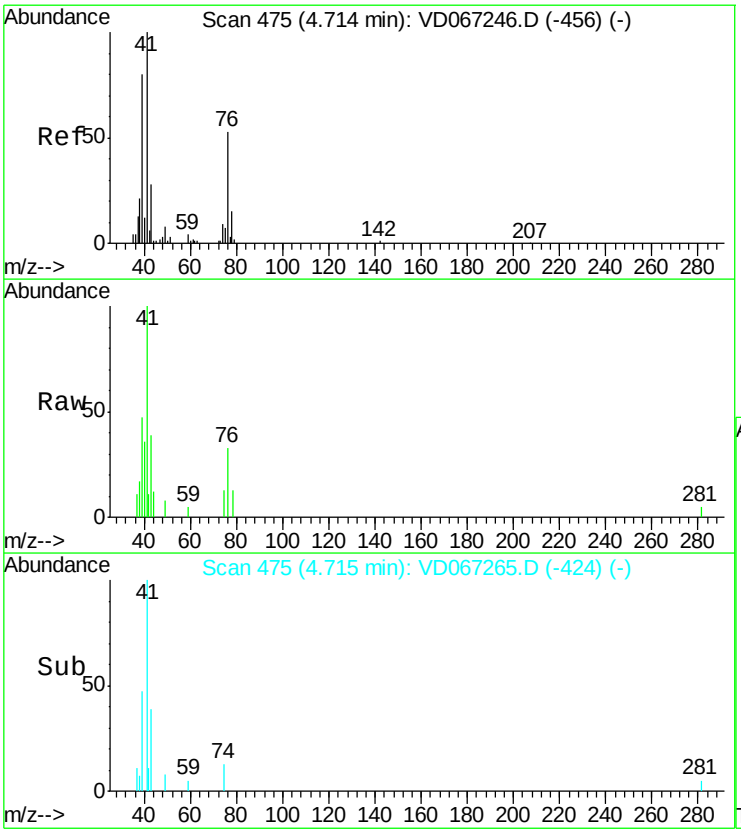
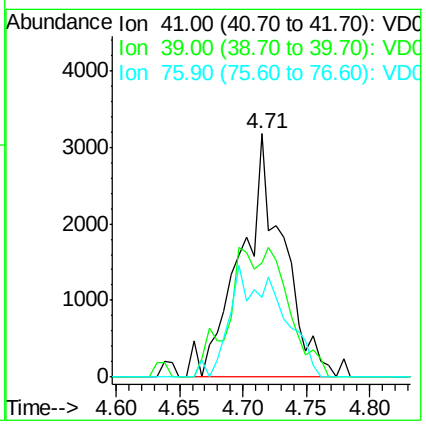
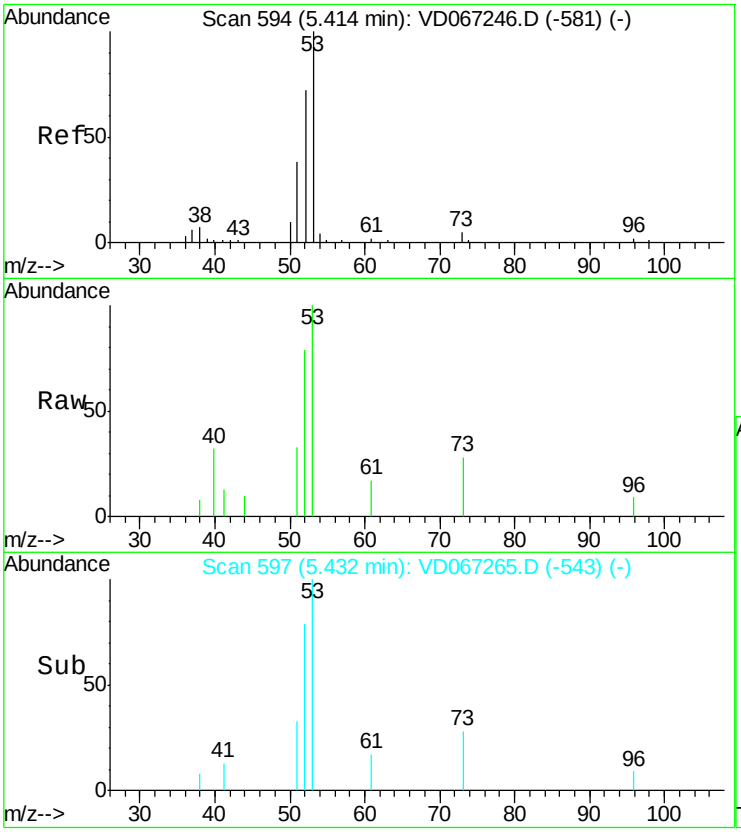



#14
Allyl chloride
Concen: 3.187 ug/l
RT: 4.71 min Scan# 475
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 41 Resp: 7402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 35.0 | 63.8 | 95.6# |
| 76 | 30.8 | 40.4 | 60.6# |

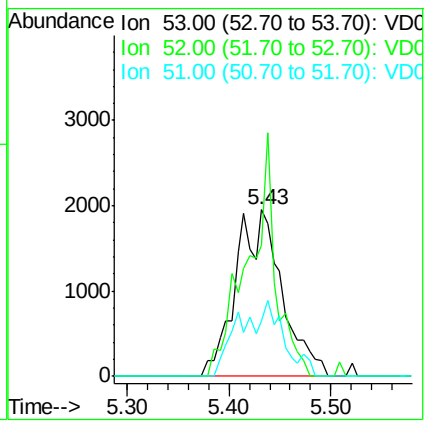





#15
Acrylonitrile
Concen: 18.863 ug/l m
RT: 5.43 min Scan# 597
Delta R.T. 0.02 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 53 Resp: 6154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 0.0 | 65.6 | 98.4# |
| 51 | 20.4 | 30.8 | 46.2# |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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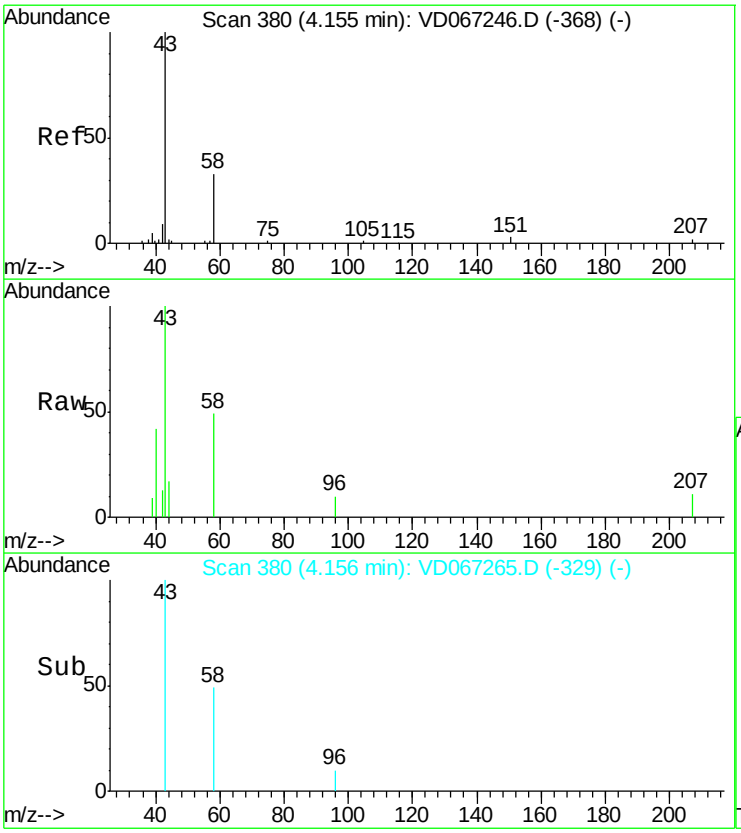
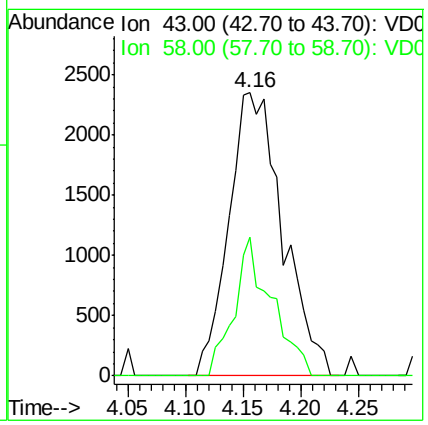
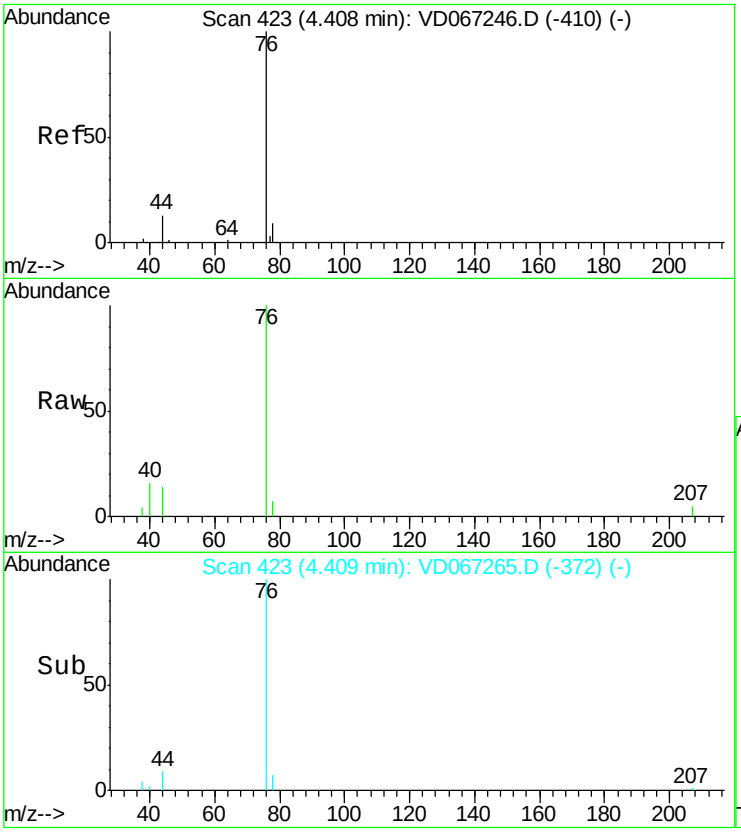



#16
Acetone
Concen: 22.164 ug/l
RT: 4.16 min Scan# 380
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 7642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.2 | 26.1 | 39.1# |






#17
Carbon Disulfide
Concen: 3.200 ug/l
RT: 4.41 min Scan# 423
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 76 Resp: 18502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.1 | 7.4 | 11.0# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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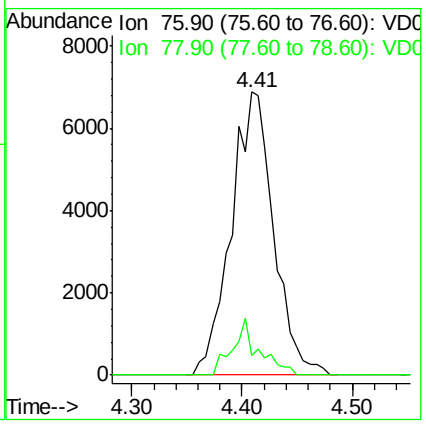
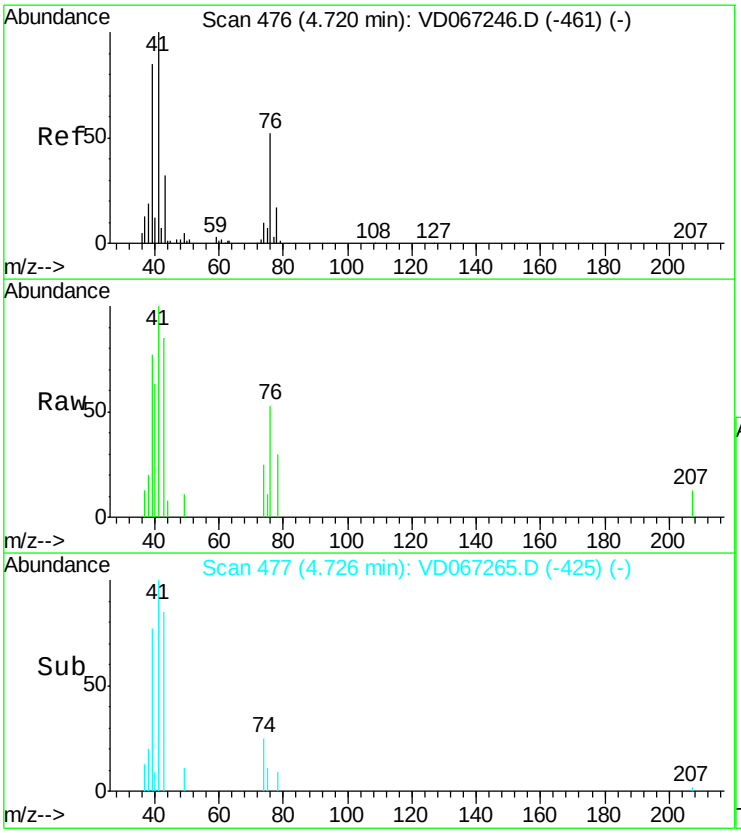
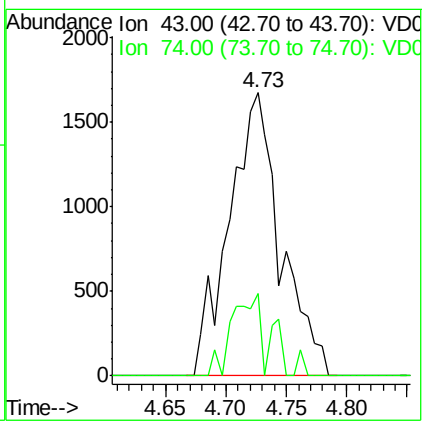


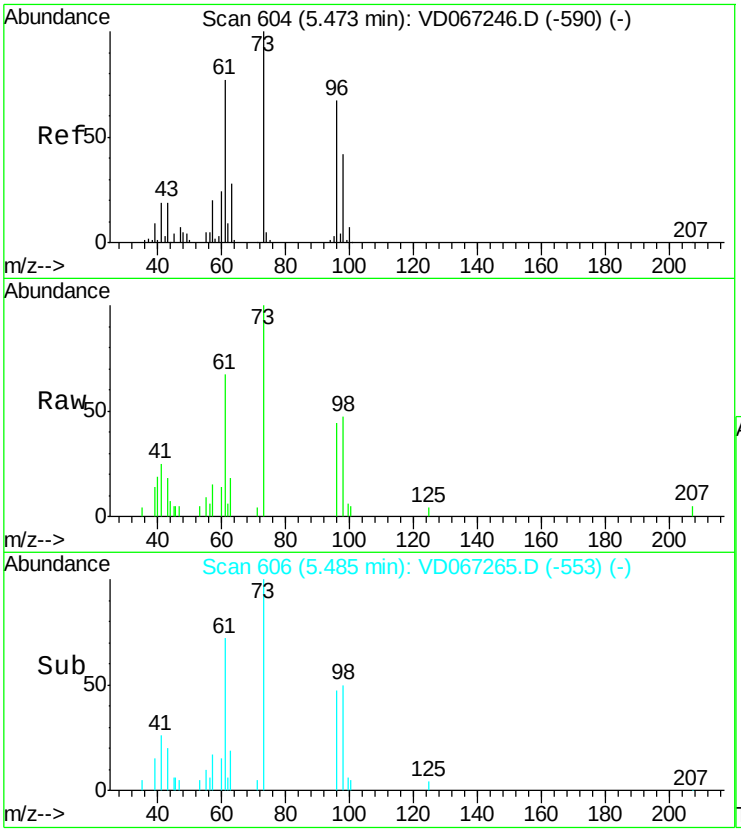




#18
Methyl Acetate
Concen: 6.313 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 4965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 15.6 | 26.6 | 39.8# |






#19
Methyl tert-butyl Ether
Concen: 3.276 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 73 Resp: 13212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 15.4 | 15.7 | 23.5# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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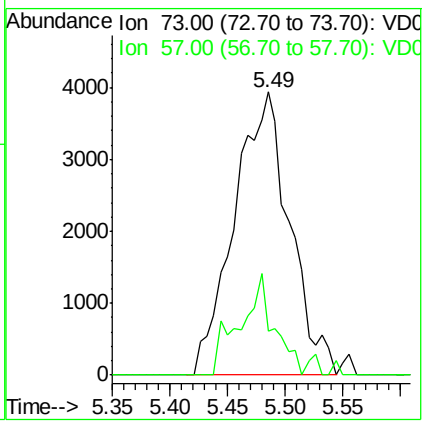
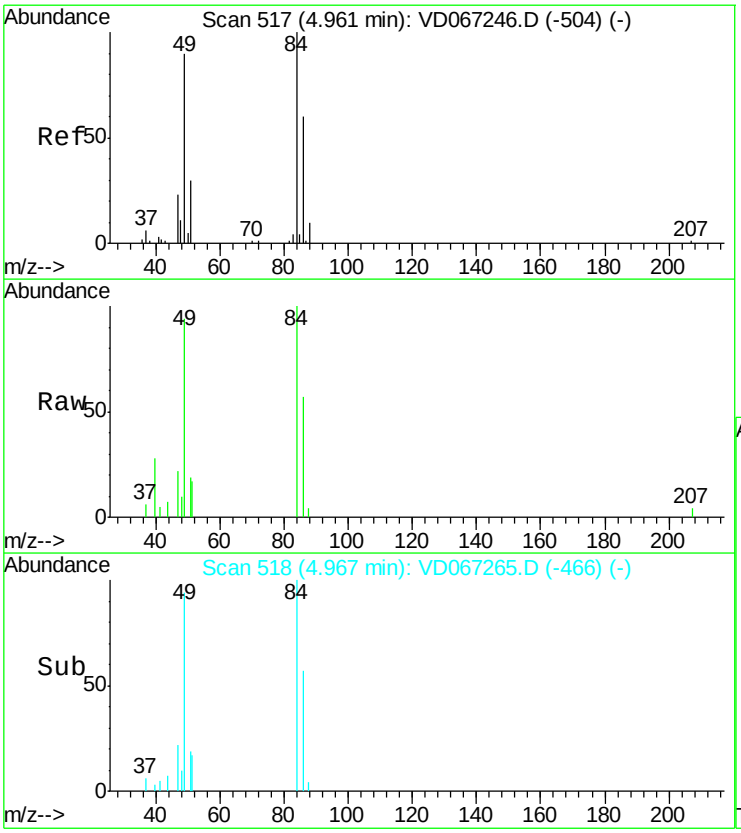
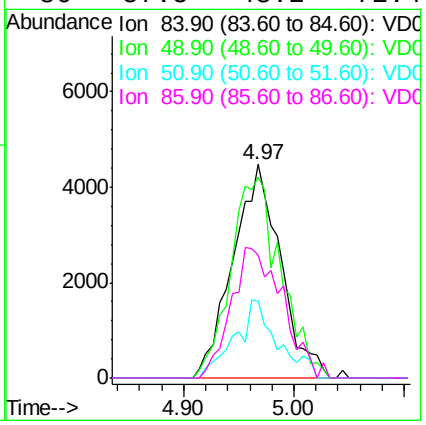


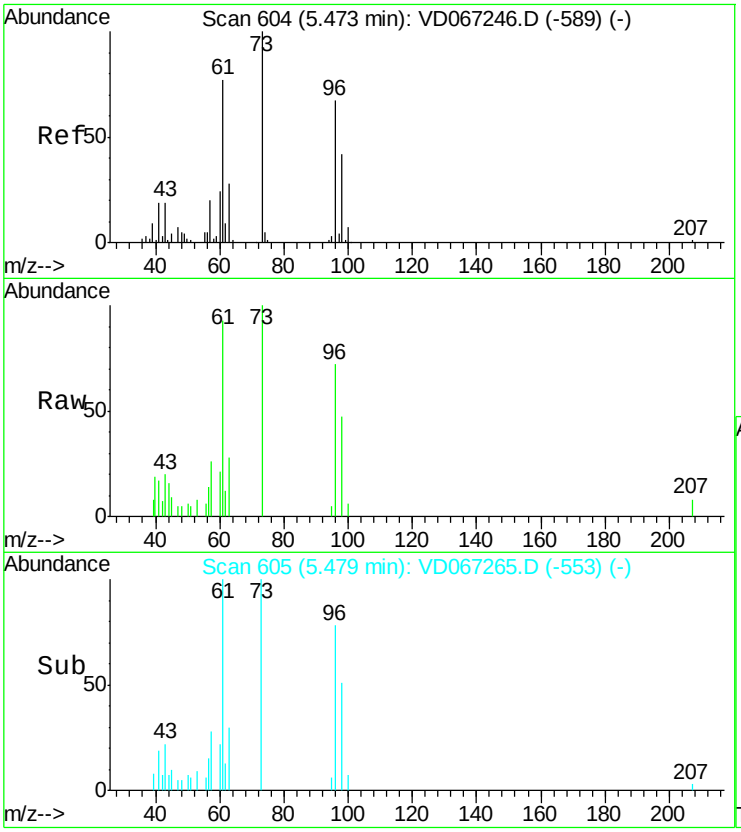




#20
Methylene Chloride
Concen: 5.207 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 84 Resp: 13537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 94.3 | 72.2 | 108.2 |
| 51 | 36.1 | 23.8 | 35.8# |
| 86 | 57.5 | 48.2 | 72.4 |

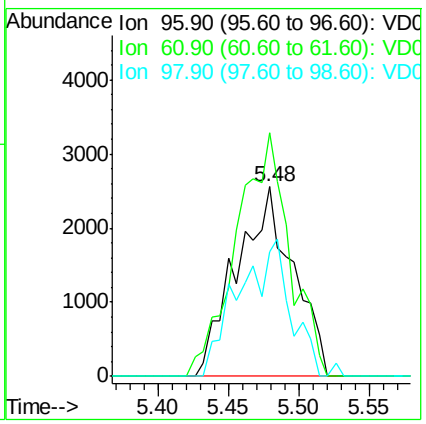





#21
trans-1,2-Dichloroethene
Concen: 3.071 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 96 Resp: 7168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.3 | 92.0 | 138.0 |
| 98 | 65.5 | 49.8 | 74.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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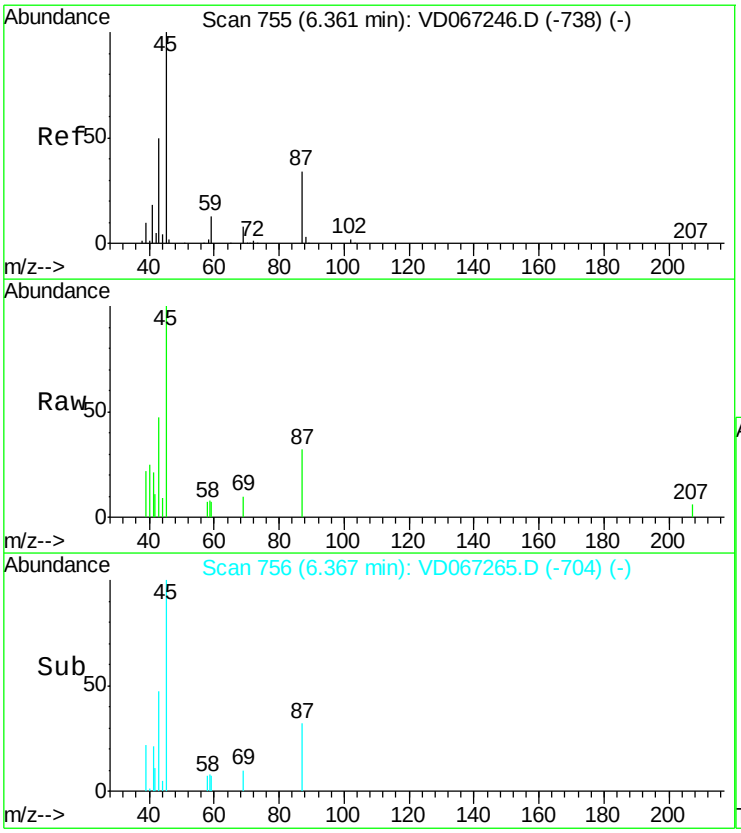
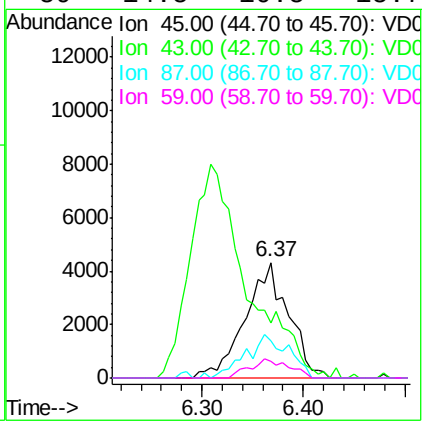
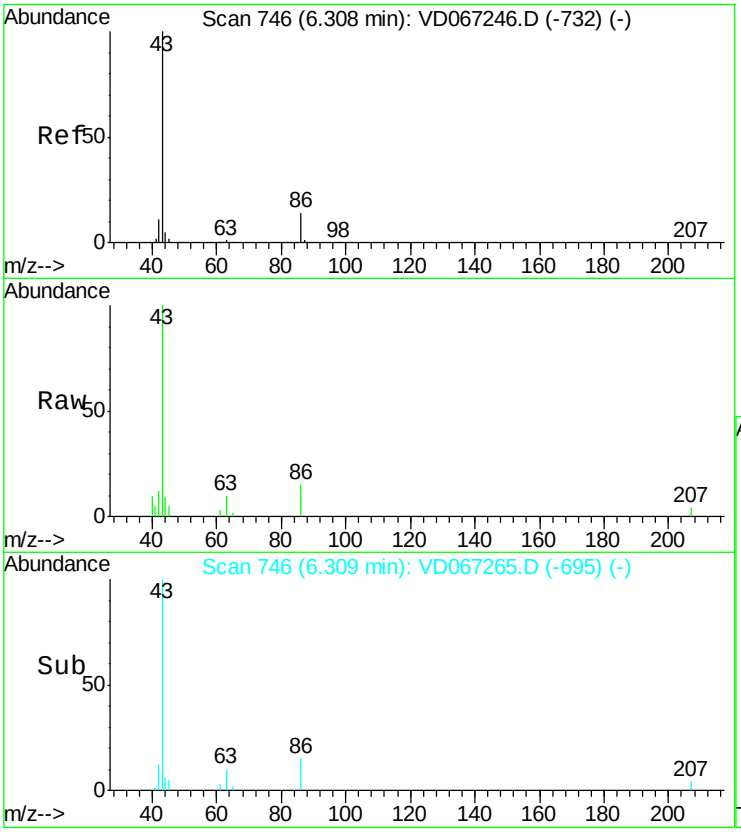



#22
Diisopropyl ether
Concen: 3.033 ug/l
RT: 6.37 min Scan# 756
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 45 Resp: 12867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 38.7 | 48.0 | 72.0# |
| 87 | 32.0 | 28.5 | 42.7 |
| 59 | 14.5 | 10.5 | 15.7 |






#23
Vinyl Acetate
Concen: 12.813 ug/l
RT: 6.31 min Scan# 746
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 30929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.1 | 11.0 | 16.6 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
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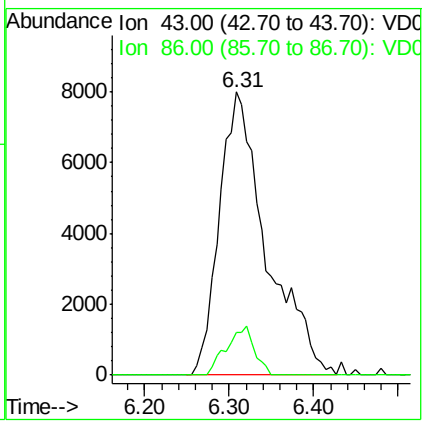
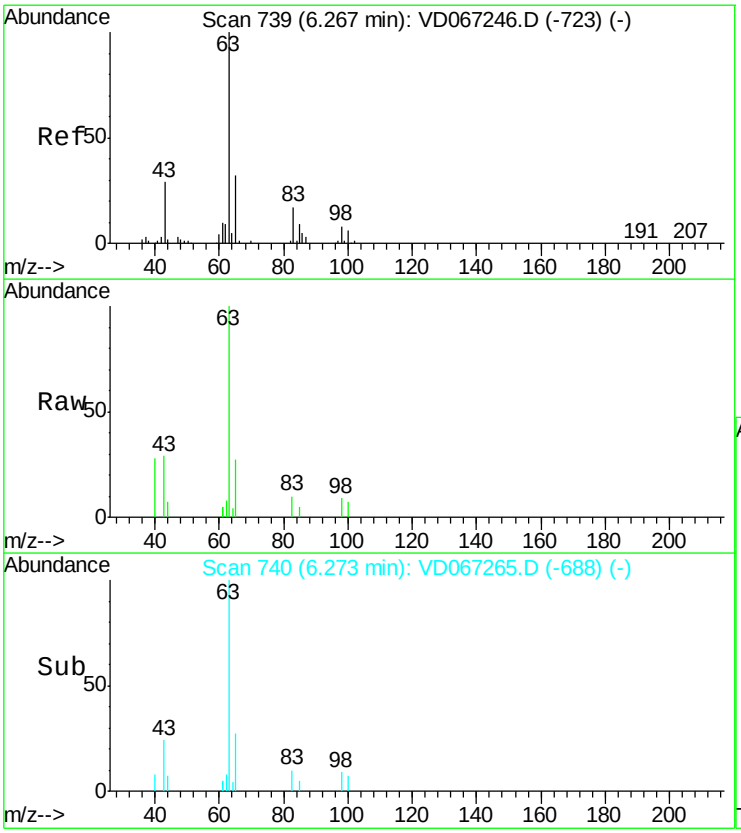
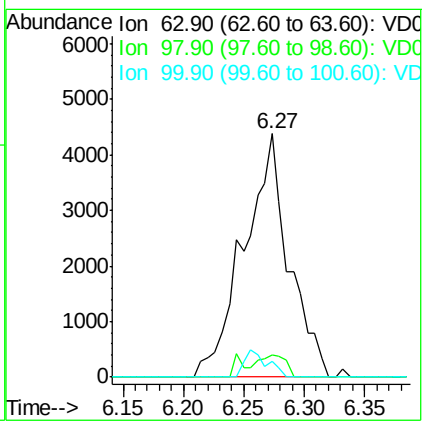


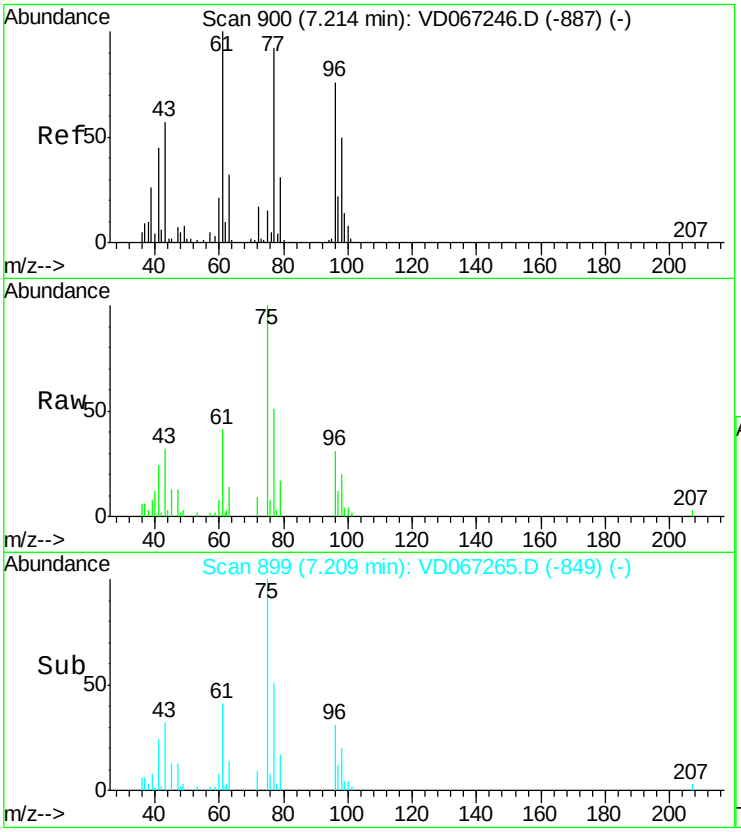




#24
1,1-Dichloroethane
Concen: 3.118 ug/l
RT: 6.27 min Scan# 740
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 63 Resp: 11323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 9.4 | 4.0 | 12.2 |
| 100 | 6.6 | 2.8 | 8.4 |

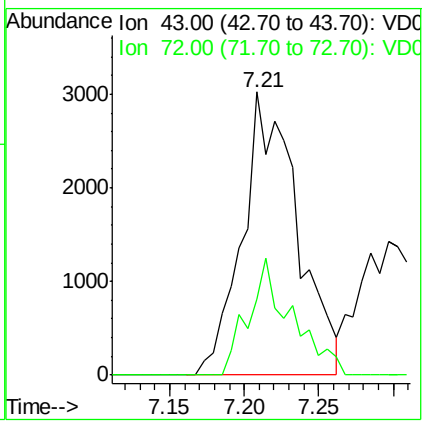





#25
2-Butanone
Concen: 19.574 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 7693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.0 | 23.7 | 35.5 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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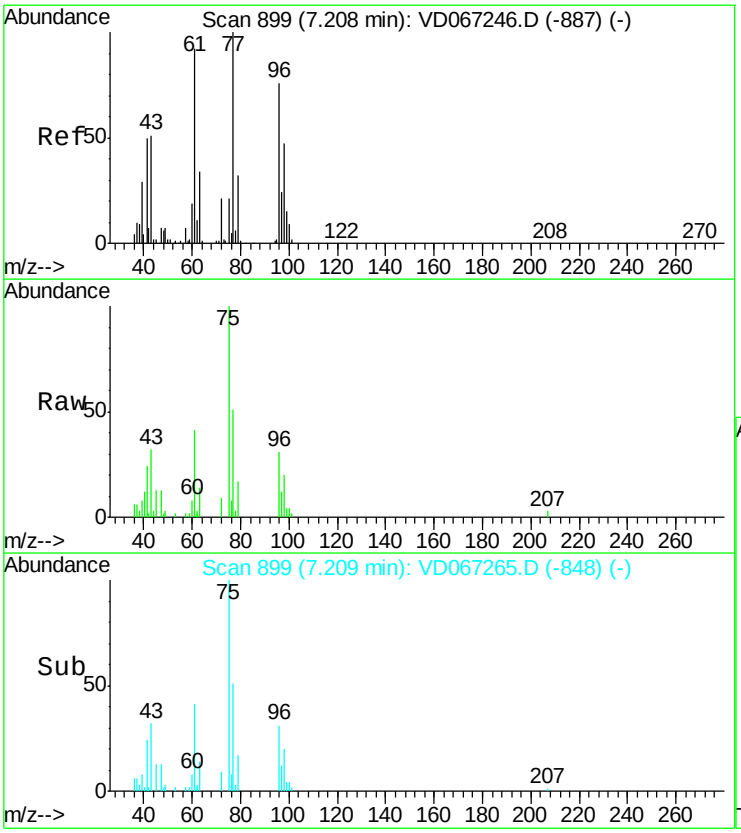
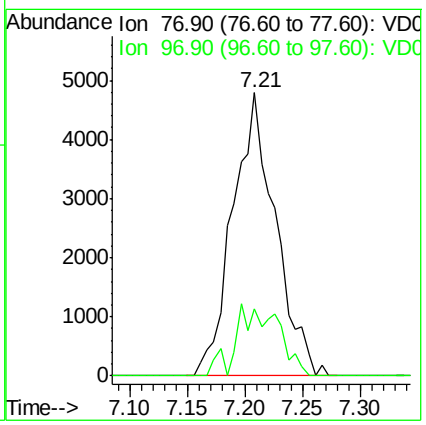
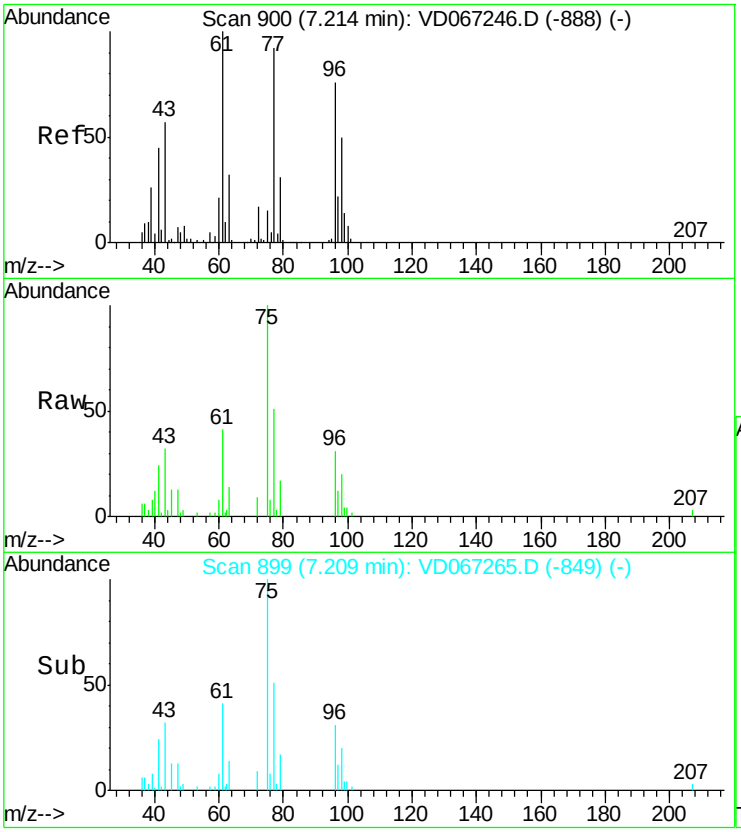



#26
2,2-Dichloropropane
Concen: 3.287 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 77 Resp: 12304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 14.5 | 11.4 | 34.2 |

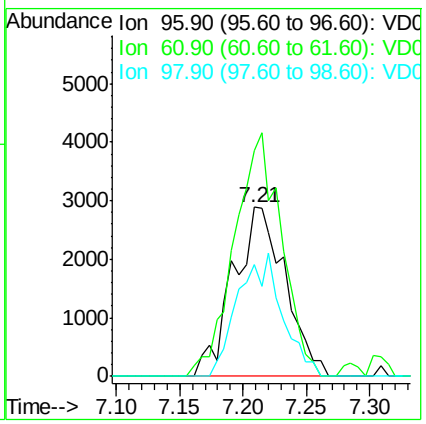





#27
cis-1,2-Dichloroethene
Concen: 3.230 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 96 Resp: 8263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.6 | 0.0 | 255.4 |
| 98 | 61.6 | 0.0 | 128.0 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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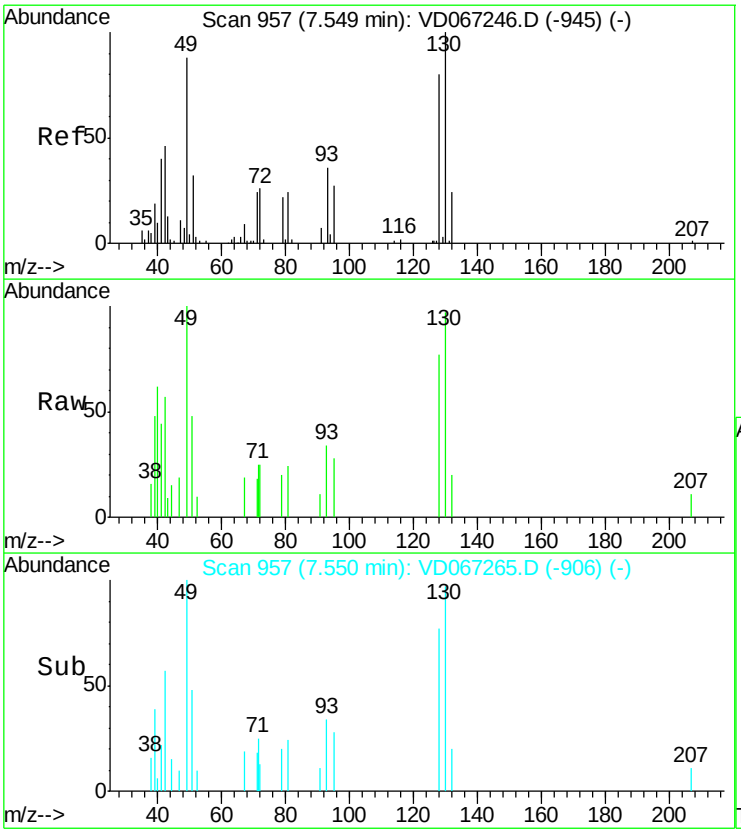
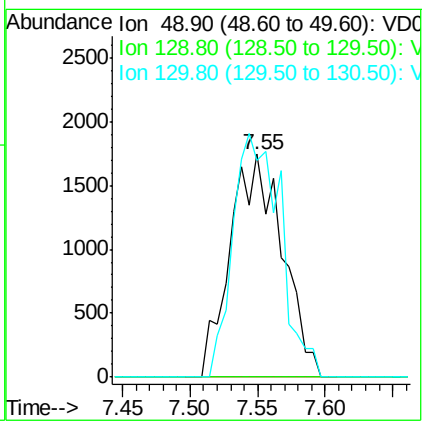
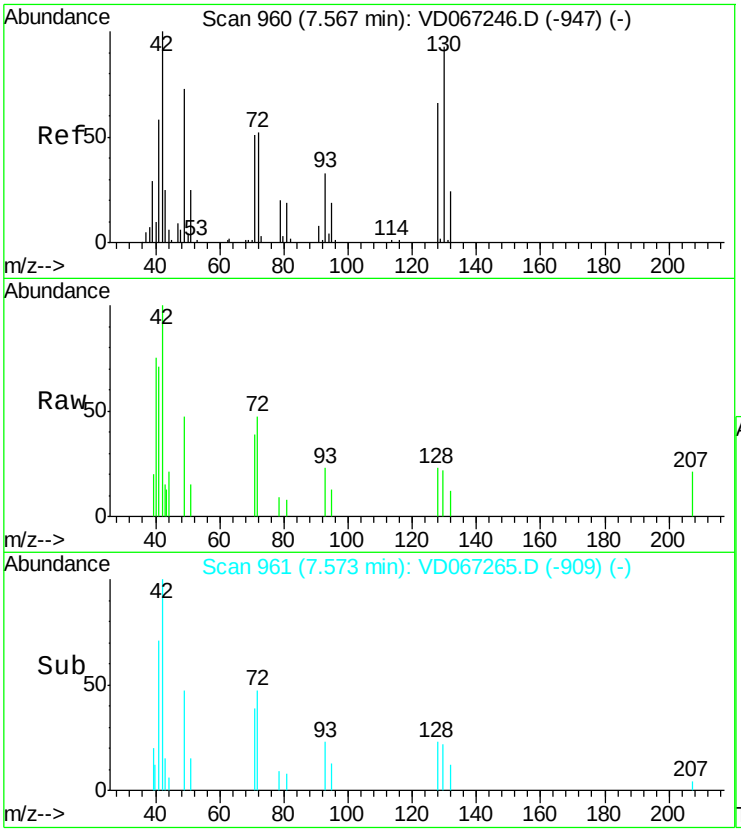



#28
Bromochloromethane
Concen: 3.791 ug/l m
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 49 Resp: 4696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 1.6 |
| 130 | 99.9 | 91.0 | 136.6 |

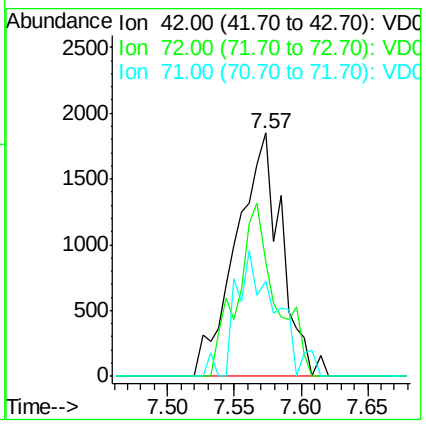





#29
Tetrahydrofuran
Concen: 19.989 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 42 Resp: 4367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.5 | 43.2 | 64.8 |
| 71 | 45.8 | 39.4 | 59.0 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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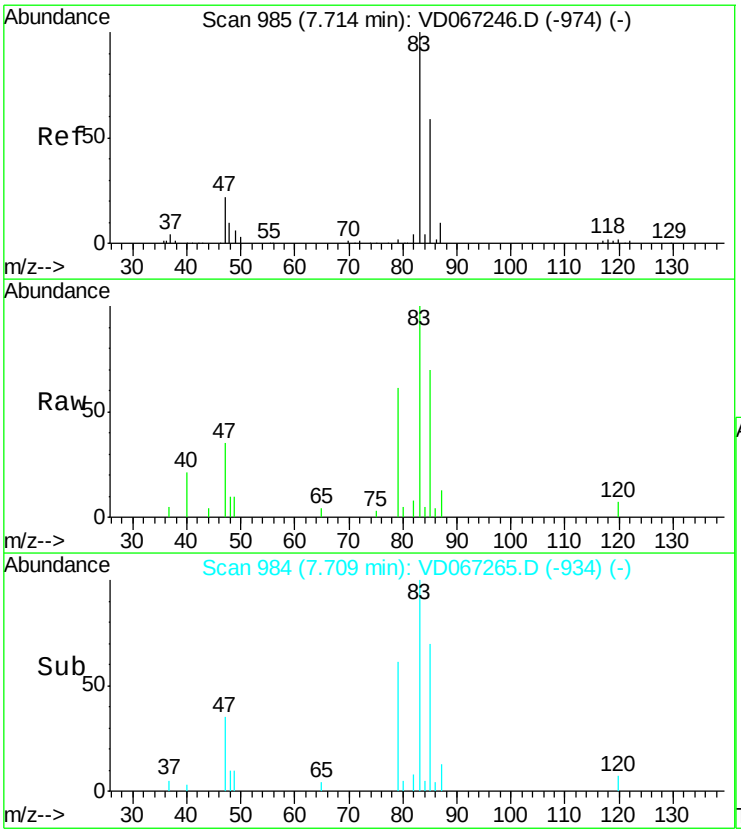
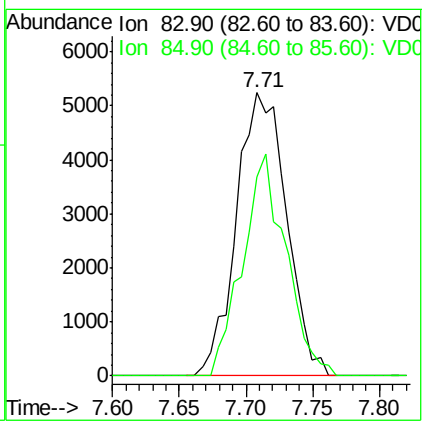
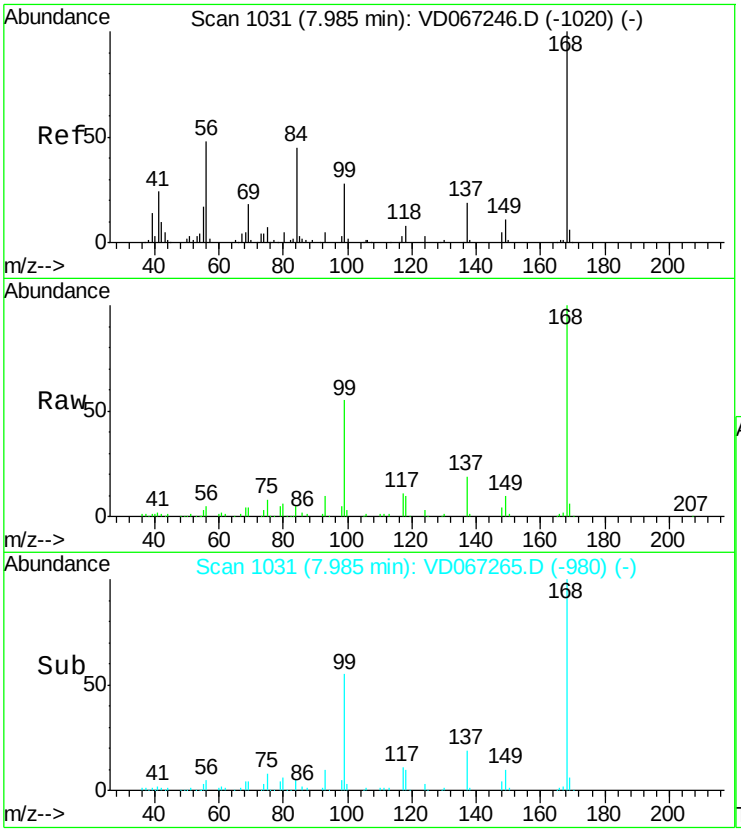



#30
Chloroform
Concen: 3.154 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 83 Resp: 13685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 70.5 | 47.3 | 70.9 |

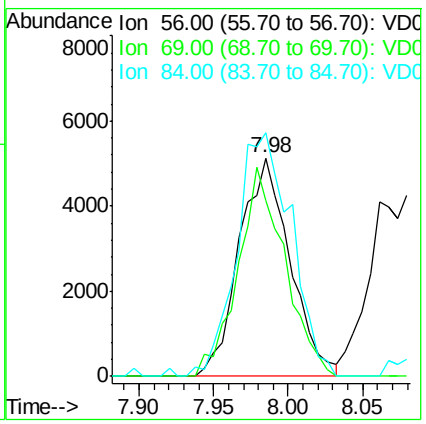





#31
Cyclohexane
Concen: 4.280 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 56 Resp: 12135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 80.5 | 29.8 | 44.6# |
| 84 | 111.4 | 76.6 | 114.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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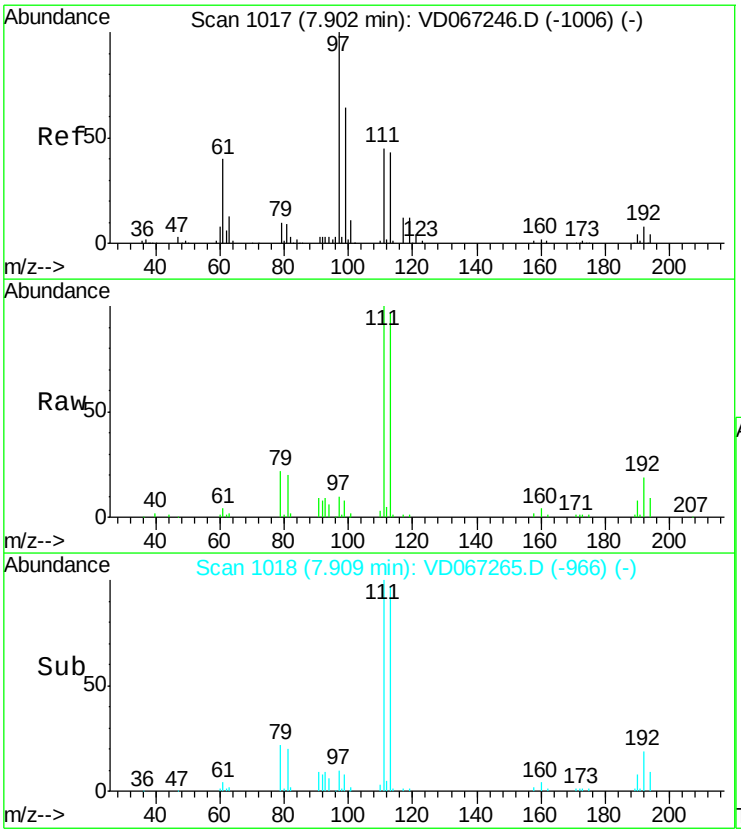
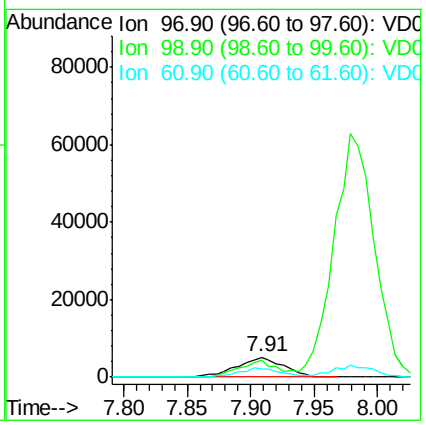
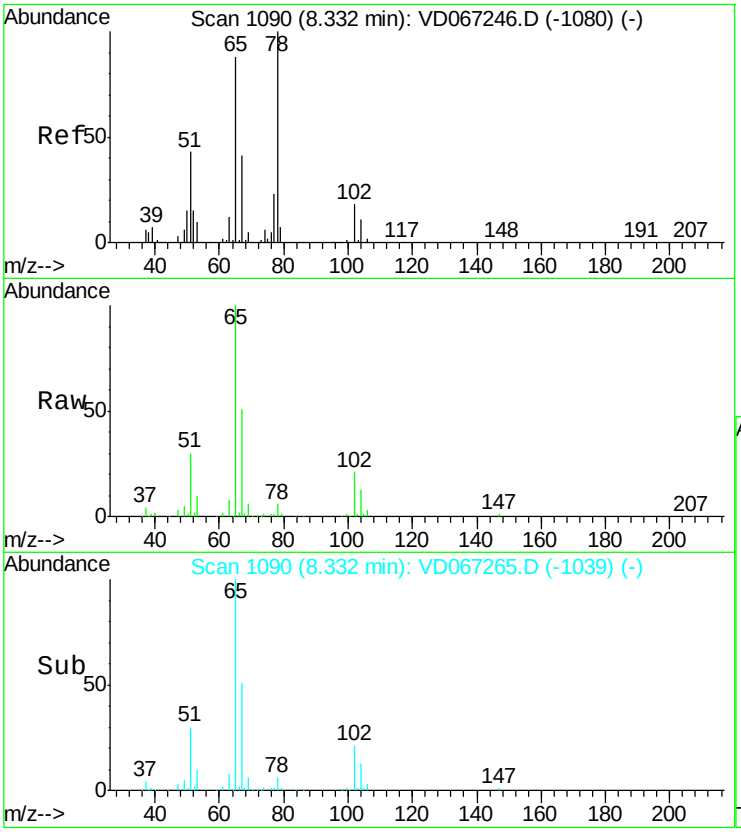



#32
1,1,1-Trichloroethane
Concen: 3.062 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 97 Resp: 13033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 72.5 | 50.2 | 75.4 |
| 61 | 42.7 | 30.5 | 45.7 |

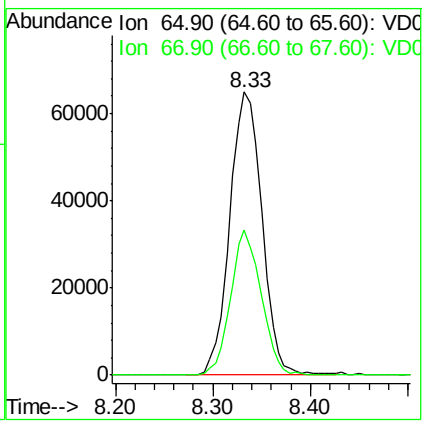





#33
1,2-Dichloroethane-d4
Concen: 60.448 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 65 Resp: 148817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.7 | 0.0 | 103.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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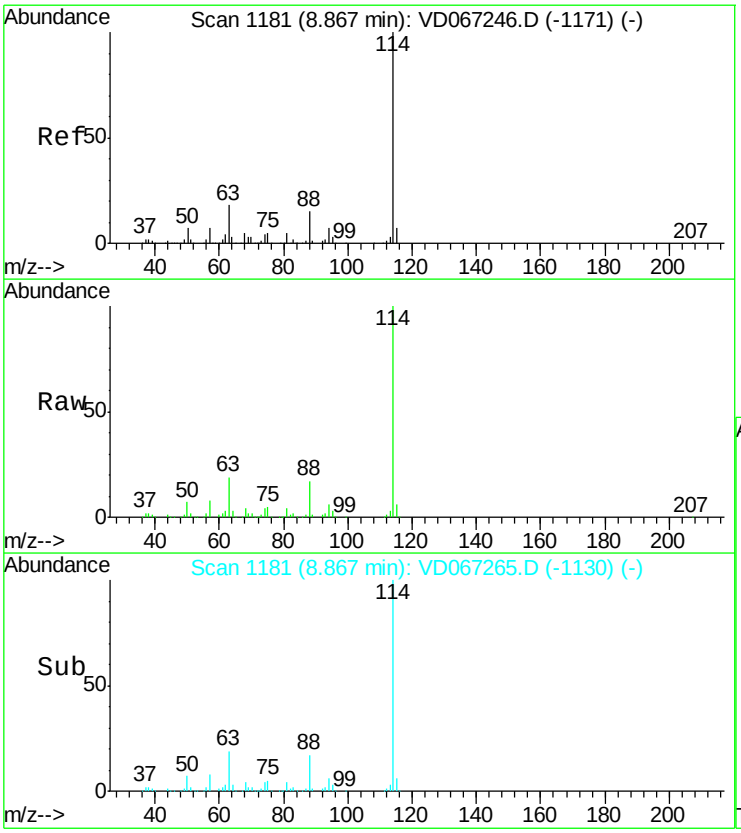
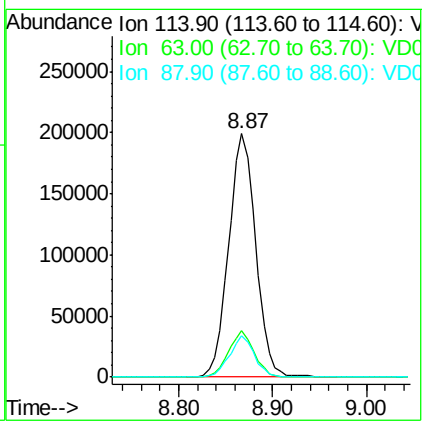
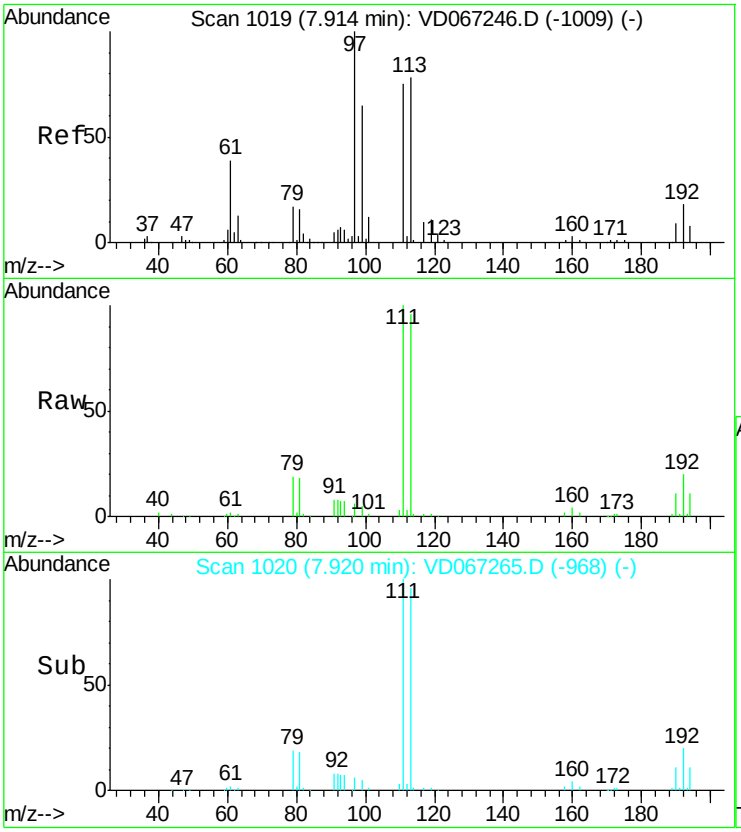



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:114 Resp: 397800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.3 | 0.0 | 35.0 |
| 88 | 16.9 | 0.0 | 30.6 |

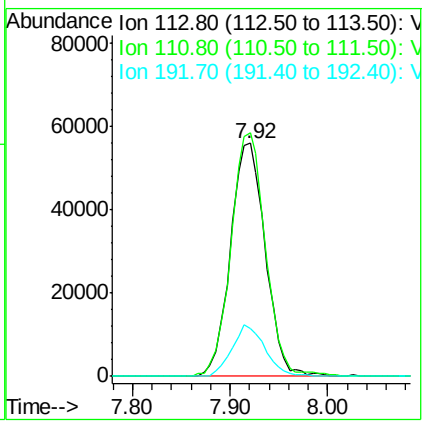





#35
Dibromofluoromethane
Concen: 52.403 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:113 Resp: 138730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.6 | 122.4 |
| 192 | 21.1 | 17.0 | 25.4 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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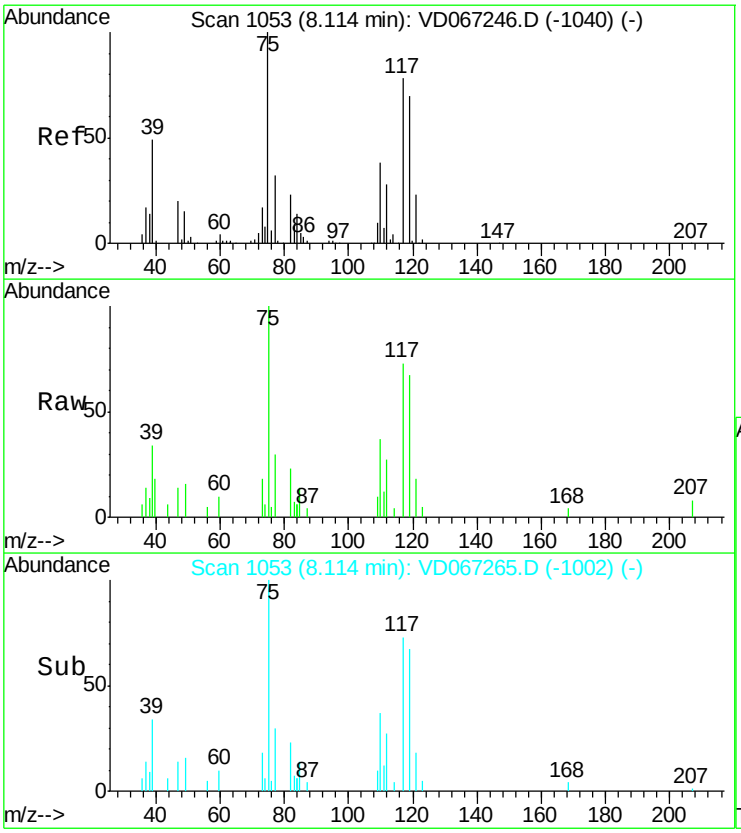
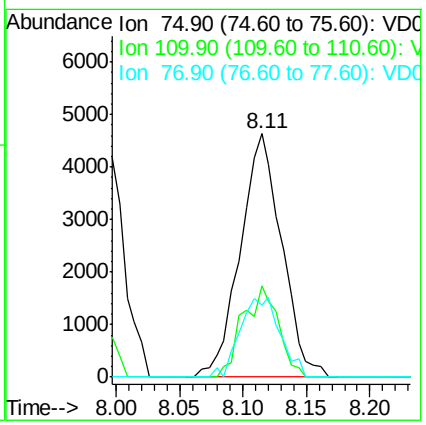
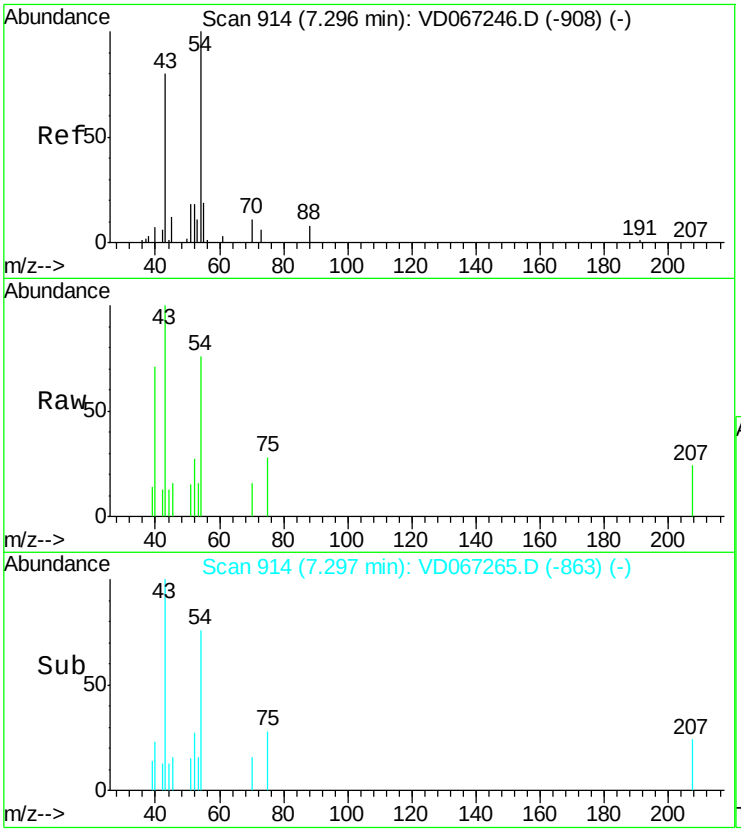



#36
1,1-Dichloropropene
Concen: 3.116 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 75 Resp: 10505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.1 | 19.6 | 58.7 |
| 77 | 31.9 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 4.012 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 3980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 15.6 | 23.4# |
| 70 | 7.2 | 10.4 | 15.6# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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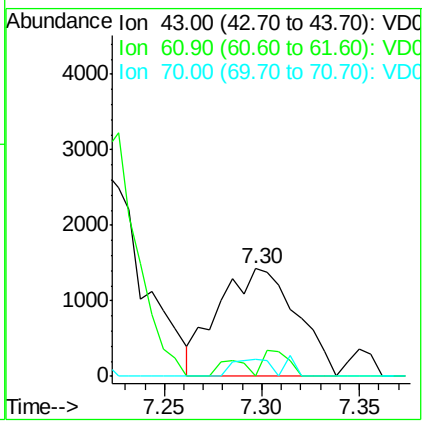
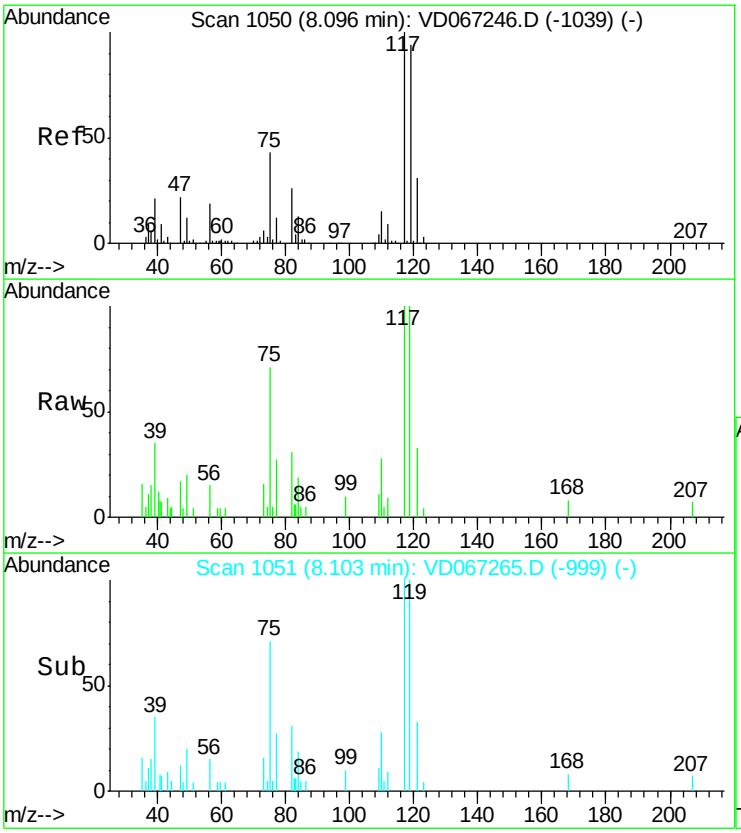
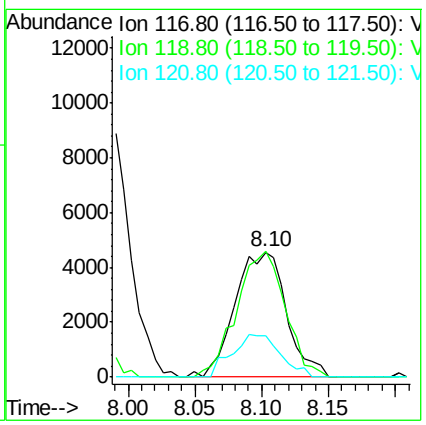


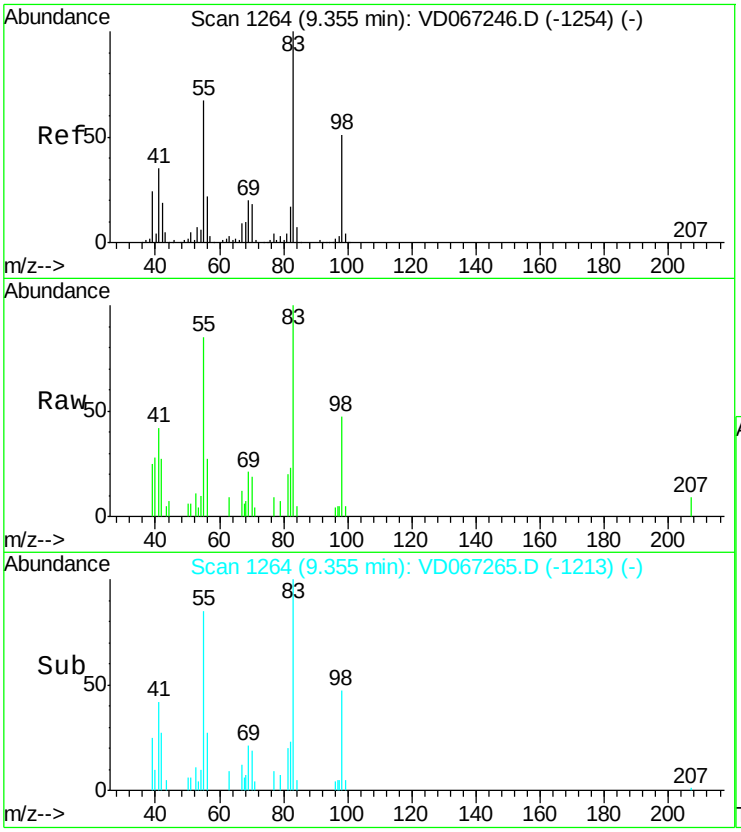




#38
Carbon Tetrachloride
Concen: 2.823 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:117 Resp: 12165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.4 | 75.0 | 112.4 |
| 121 | 33.4 | 24.9 | 37.3 |

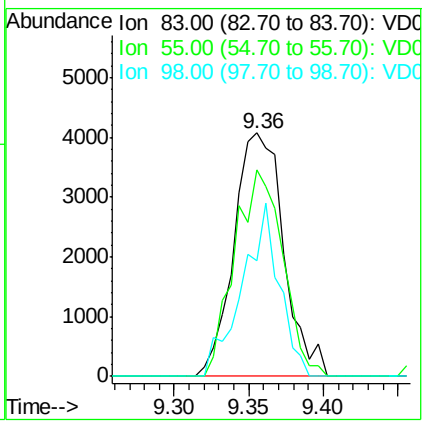





#39
Methylcyclohexane
Concen: 2.671 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 83 Resp: 9416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 85.0 | 53.3 | 79.9# |
| 98 | 47.3 | 41.0 | 61.4 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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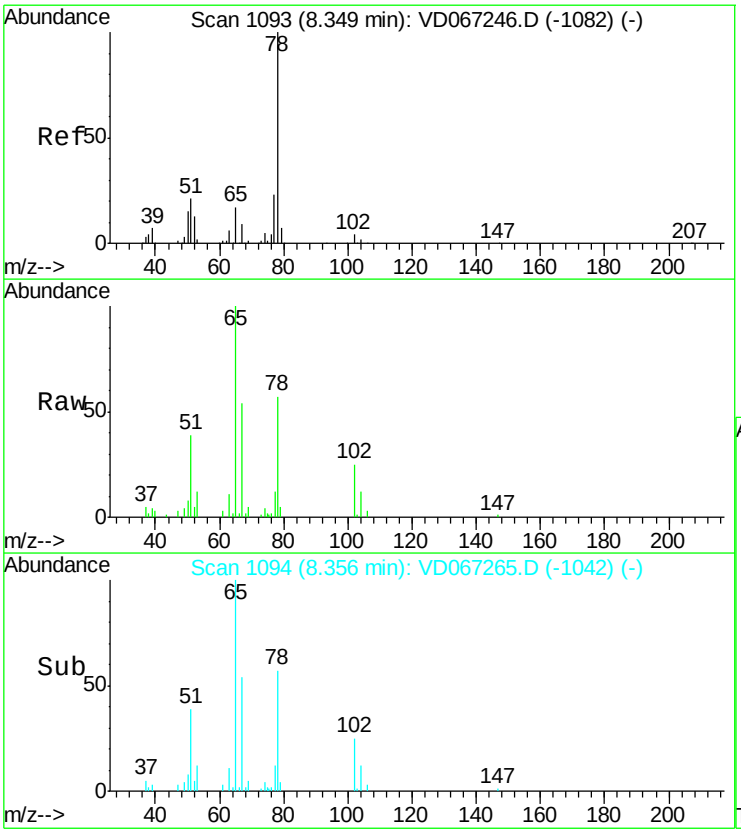
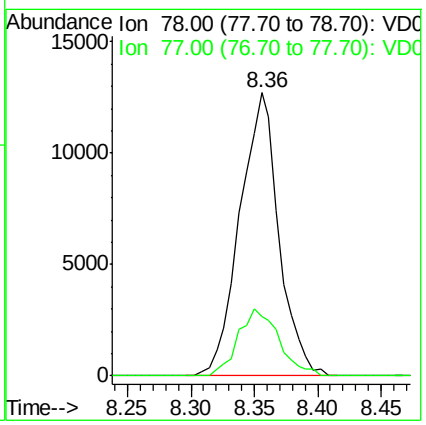
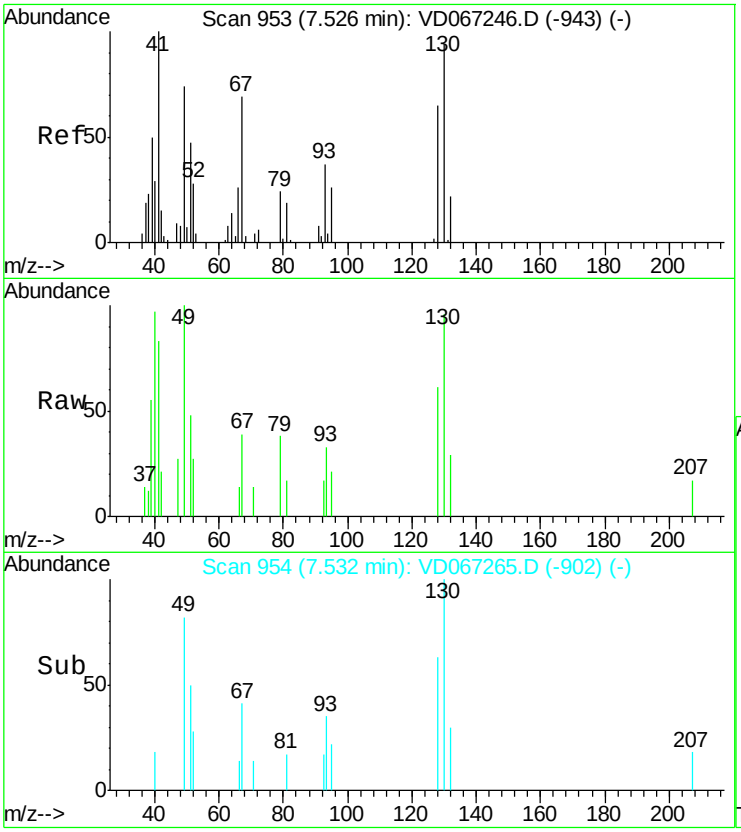



#40
Benzene
Concen: 2.945 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 78 Resp: 27244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.2 | 18.3 | 27.5 |

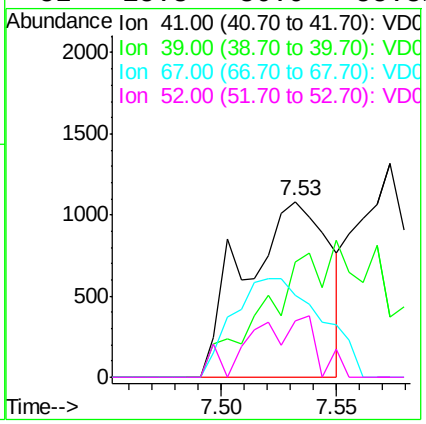





#41
Methacrylonitrile
Concen: 5.128 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 41 Resp: 2749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 50.5 | 60.0 | 90.0# |
| 67 | 59.1 | 88.9 | 133.3# |
| 52 | 15.8 | 36.9 | 55.3# |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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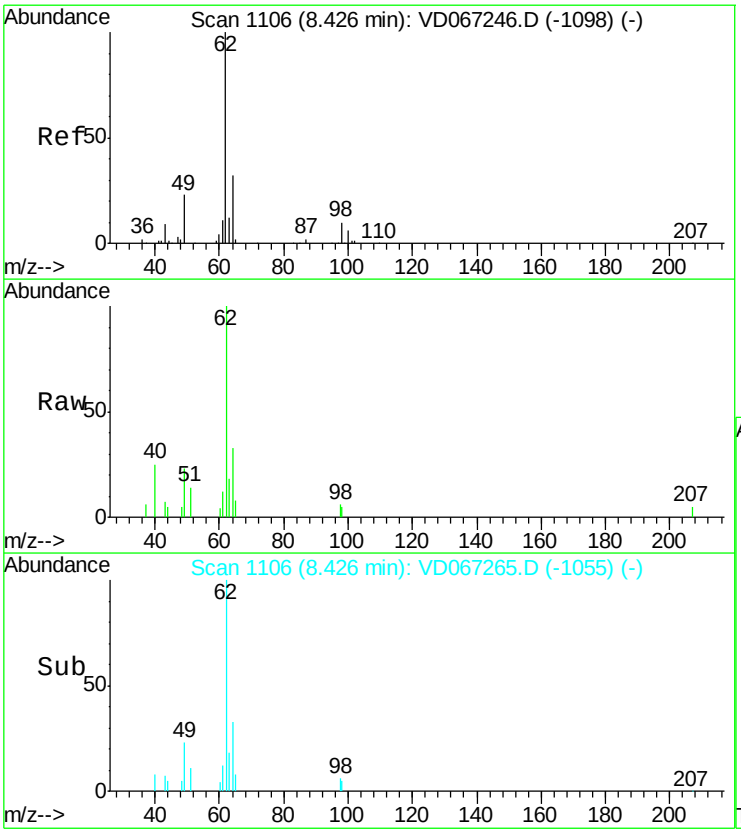
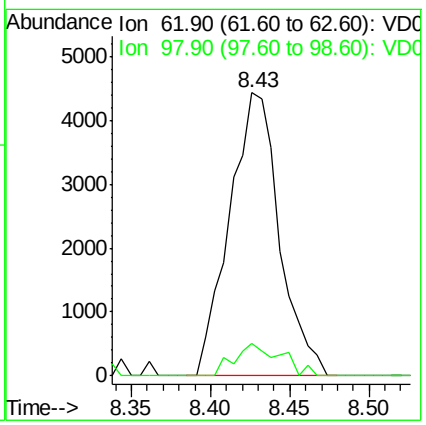
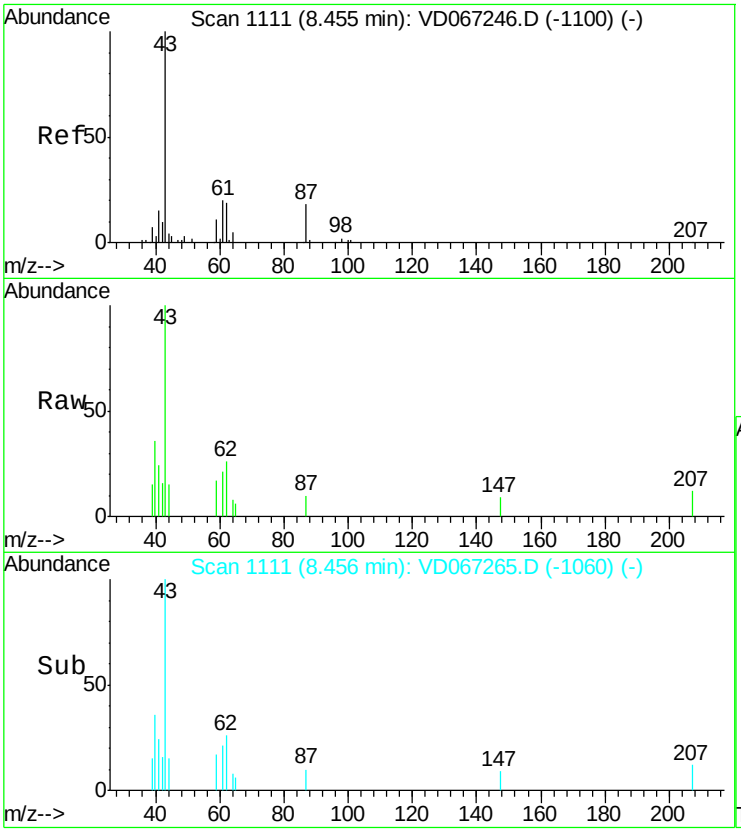



#42
1,2-Dichloroethane
Concen: 3.349 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 62 Resp: 9694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.6 | 0.0 | 19.4 |

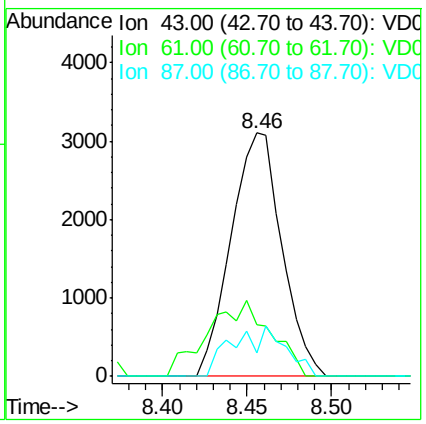





#43
Isopropyl Acetate
Concen: 3.304 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 6504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 29.5 | 44.3# |
| 87 | 11.1 | 14.2 | 21.4# |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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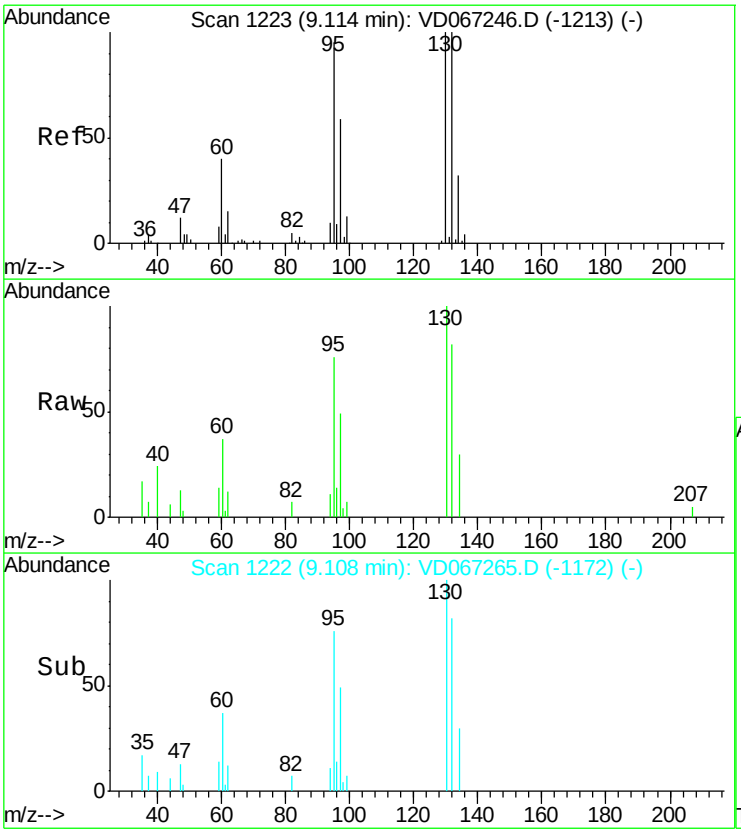
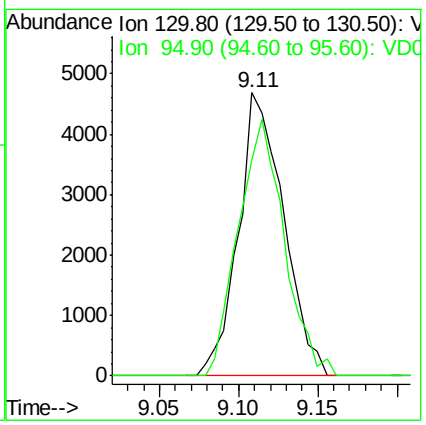
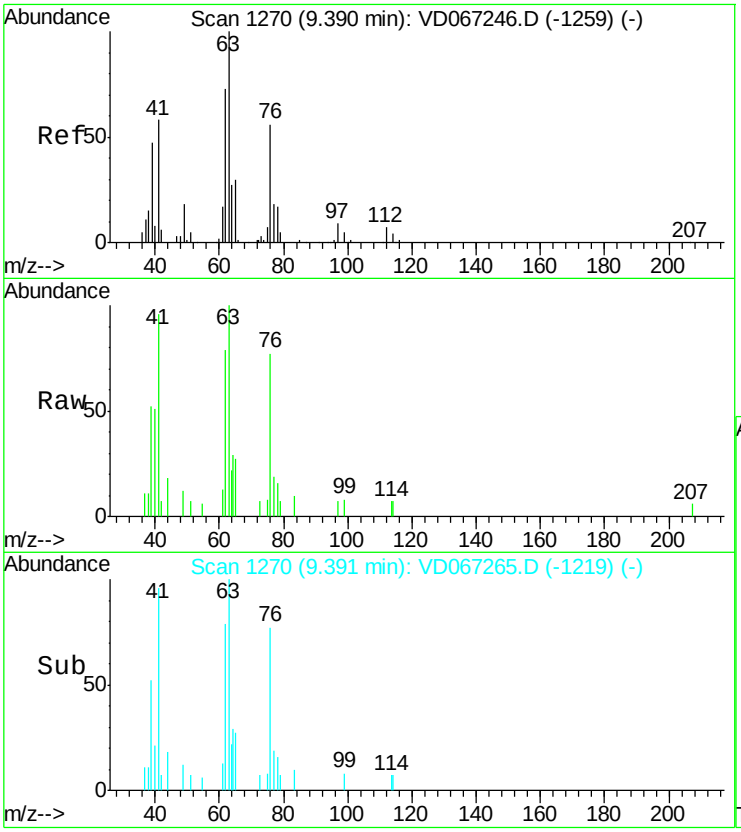



#44
Trichloroethene
Concen: 3.127 ug/l
RT: 9.11 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:130 Resp: 9262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 76.2 | 0.0 | 190.6 |

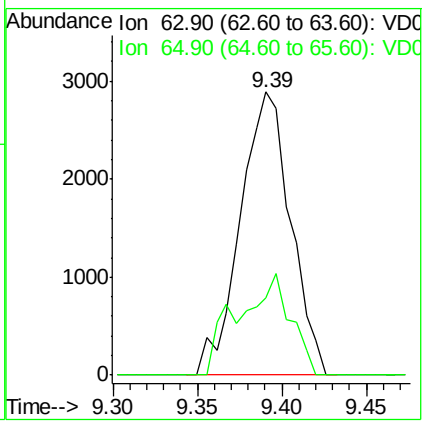





#45
1,2-Dichloropropane
Concen: 2.775 ug/l
RT: 9.39 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 63 Resp: 5948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 27.4 | 24.6 | 36.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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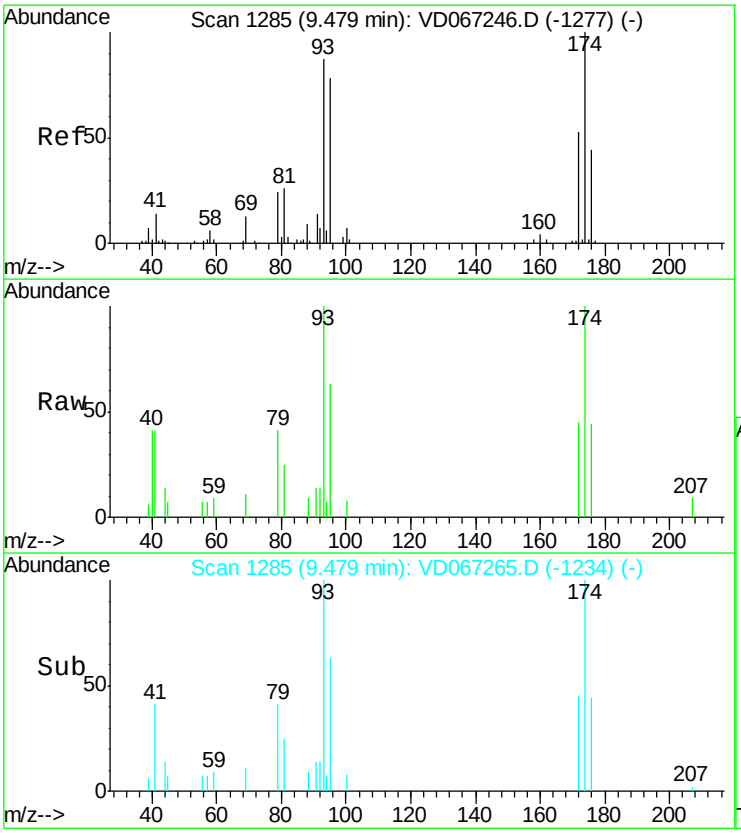
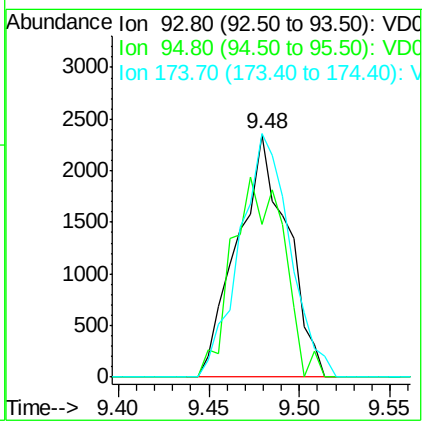
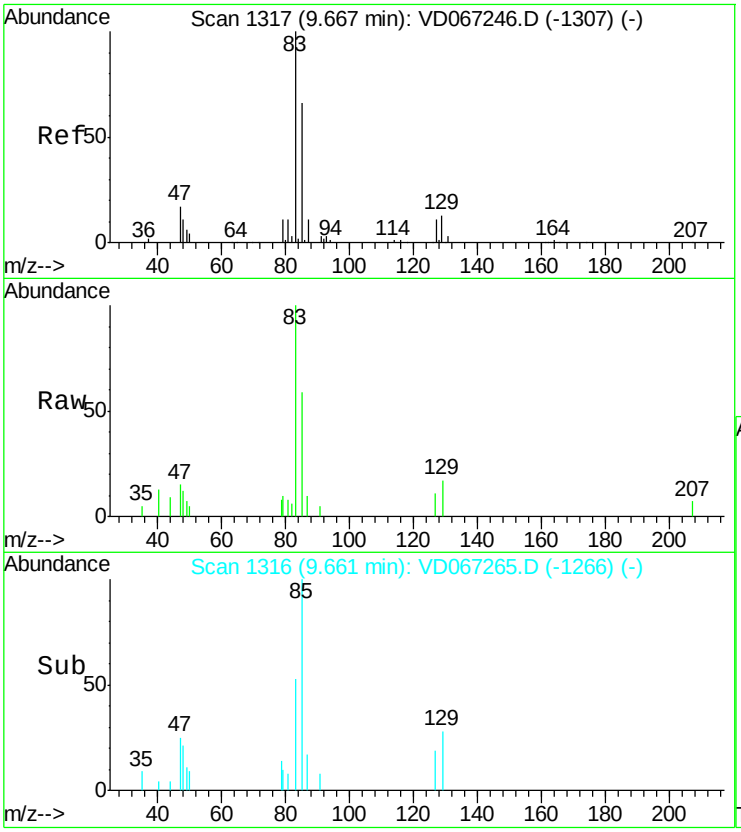



#46
Dibromomethane
Concen: 3.370 ug/l
RT: 9.48 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 93 Resp: 4501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 85.1 | 68.0 | 102.0 |
| 174 | 100.7 | 91.8 | 137.6 |

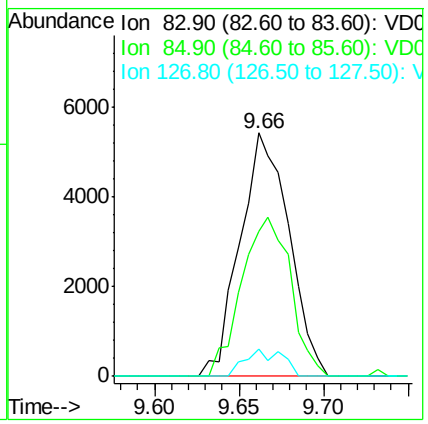





#47
Bromodichloromethane
Concen: 3.054 ug/l
RT: 9.66 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 83 Resp: 10928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.4 | 53.1 | 79.7 |
| 127 | 11.3 | 8.6 | 13.0 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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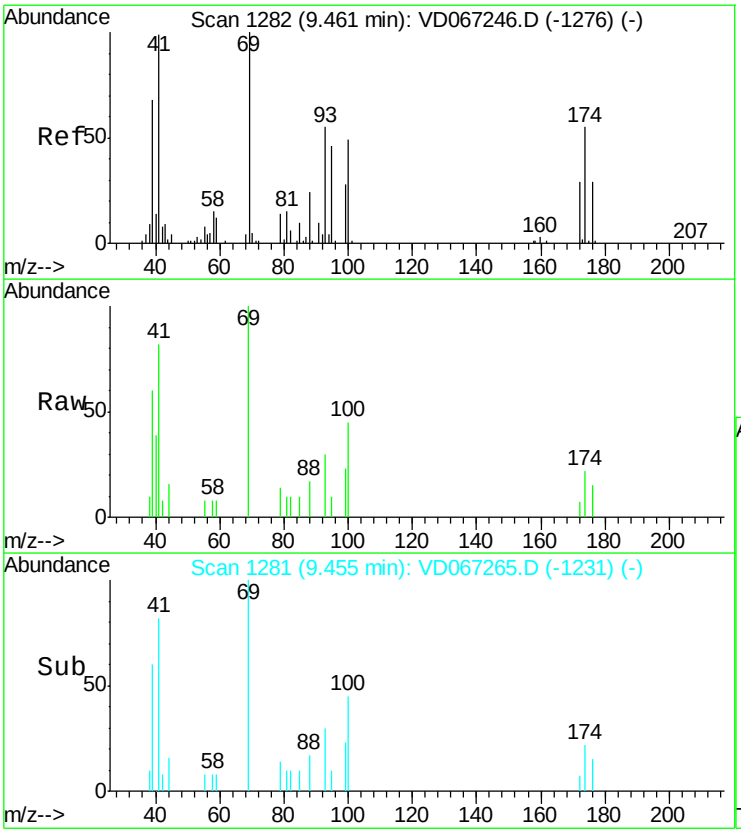
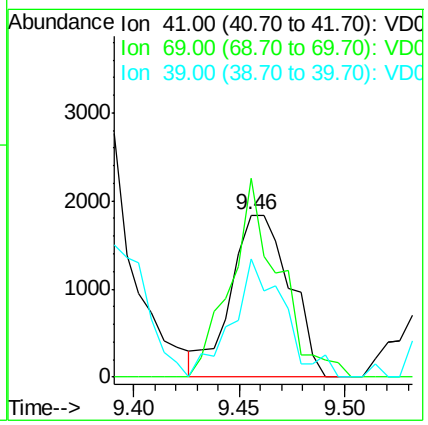
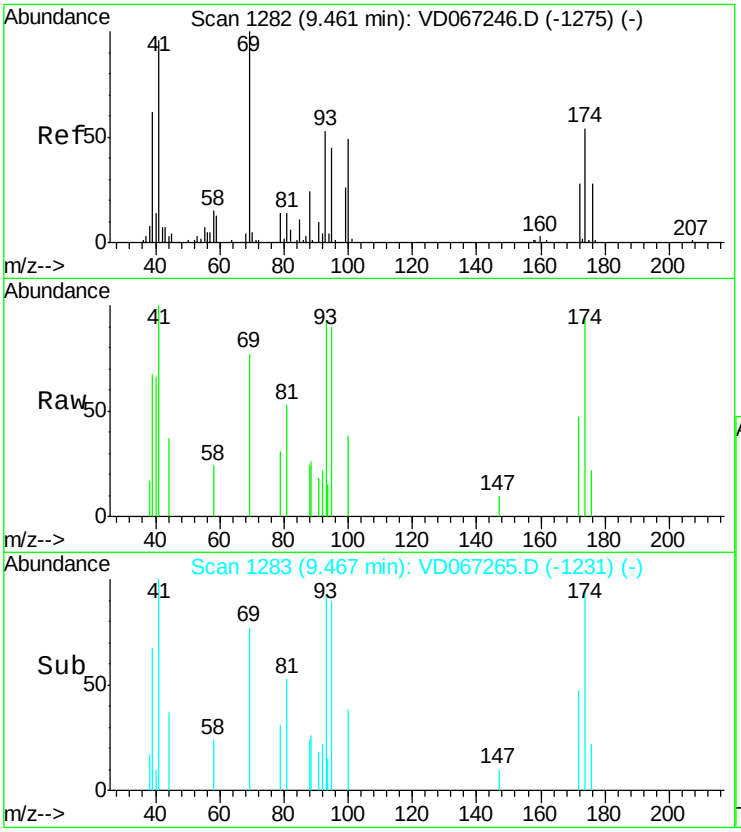



#48
Methyl methacrylate
Concen: 3.744 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 41 Resp: 3581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 98.8 | 89.0 | 133.6 |
| 39 | 63.3 | 60.2 | 90.2 |

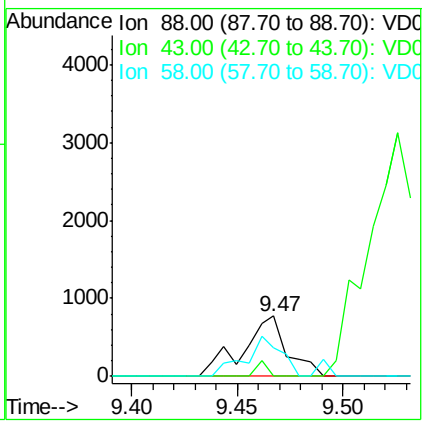





#49
1,4-Dioxane
Concen: 80.879 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 88 Resp: 1137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 23.9 | 35.9# |
| 58 | 53.3 | 51.0 | 76.6 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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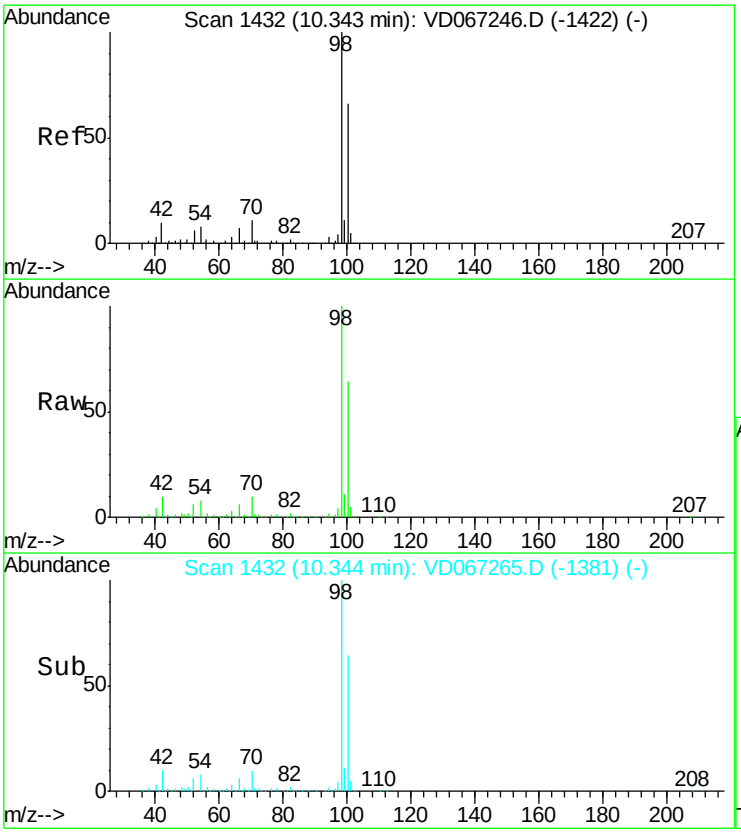
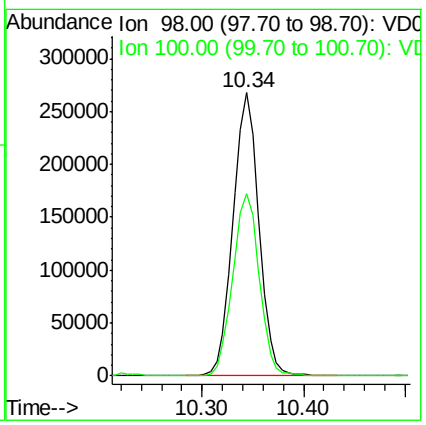
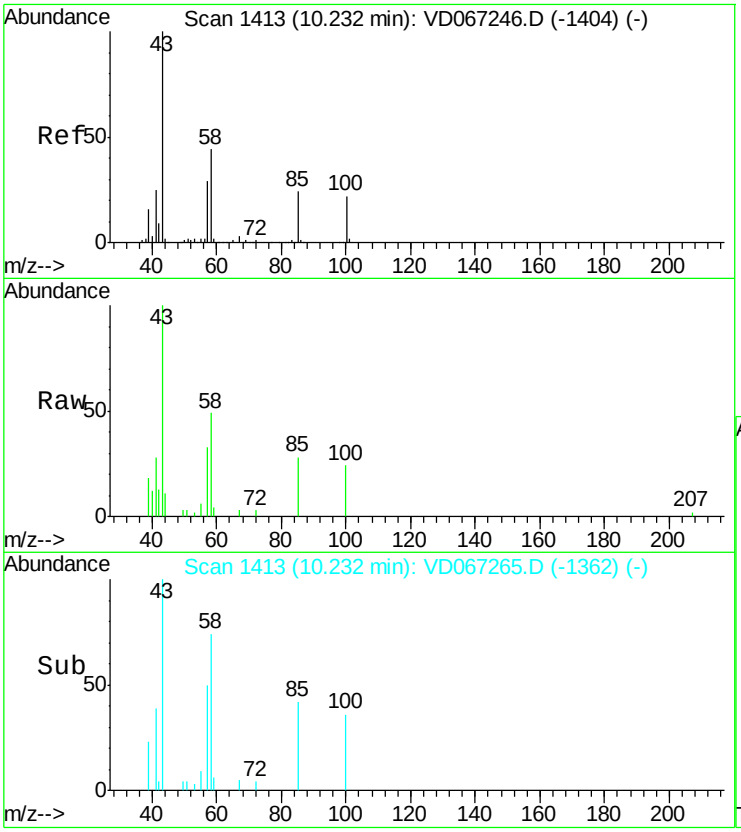



#50
Toluene-d8
Concen: 49.677 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 98 Resp: 475939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 53.1 | 79.7 |






#51
4-Methyl-2-Pentanone
Concen: 15.812 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 15524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.4 | 35.7 | 53.5 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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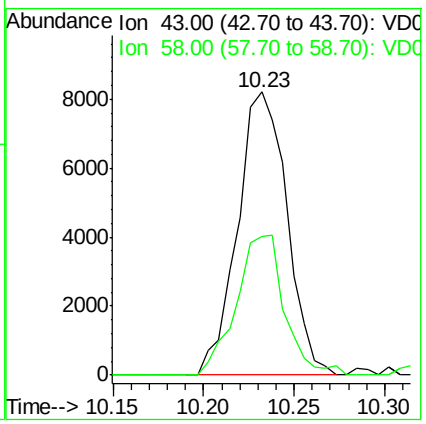
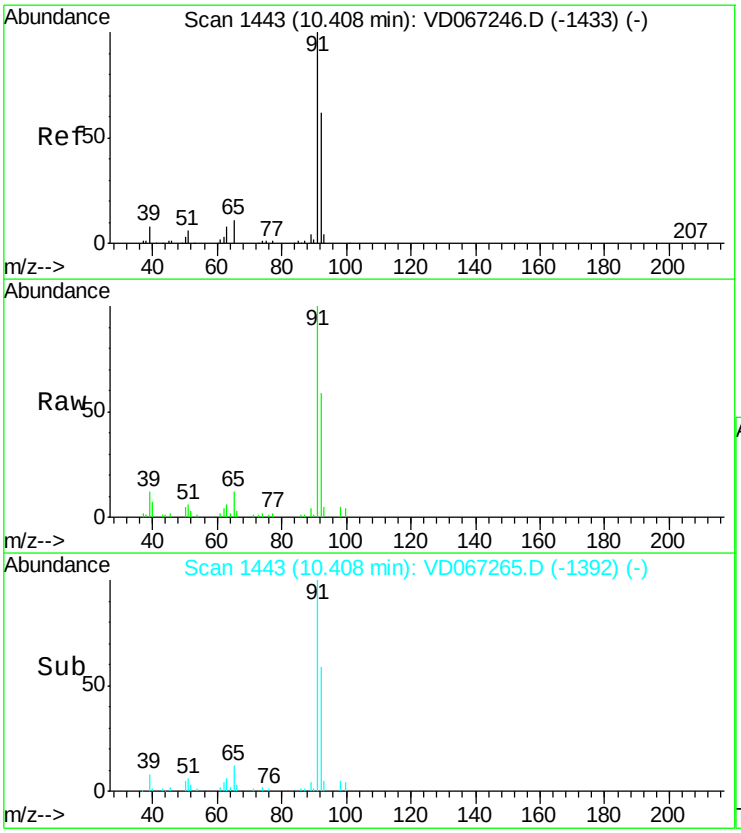
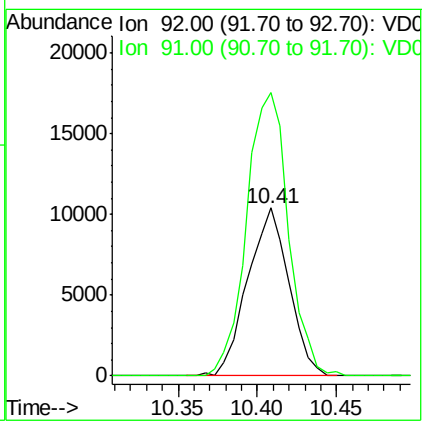


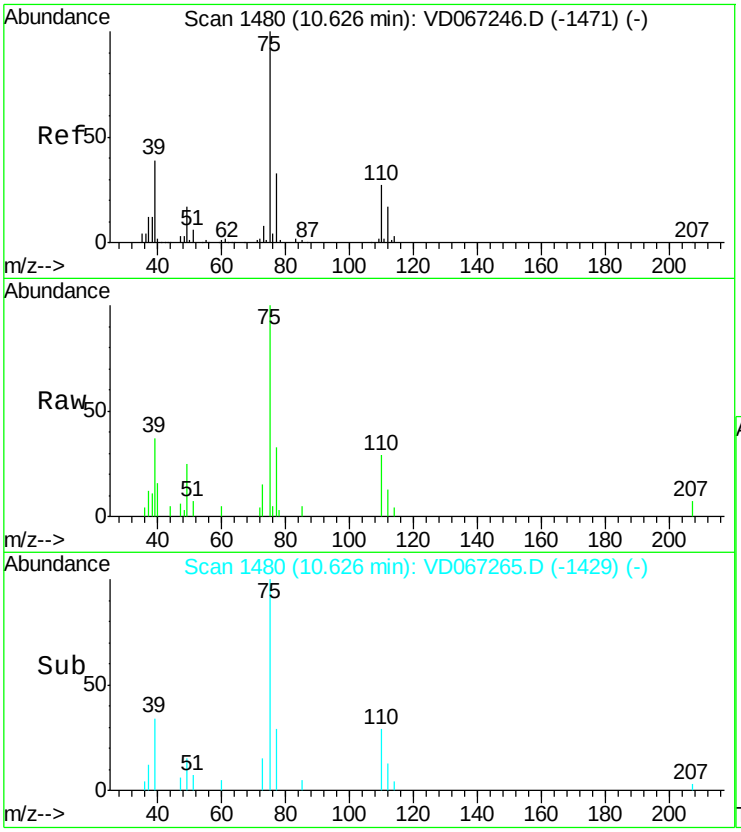




#52
Toluene
Concen: 2.984 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 92 Resp: 18800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.1 | 133.8 | 200.8 |






#53
t-1,3-Dichloropropene
Concen: 3.237 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 75 Resp: 10175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 26.5 | 39.7 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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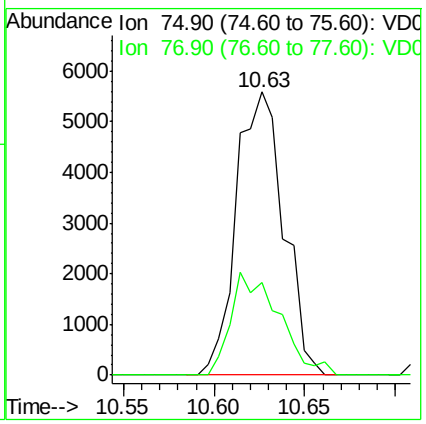
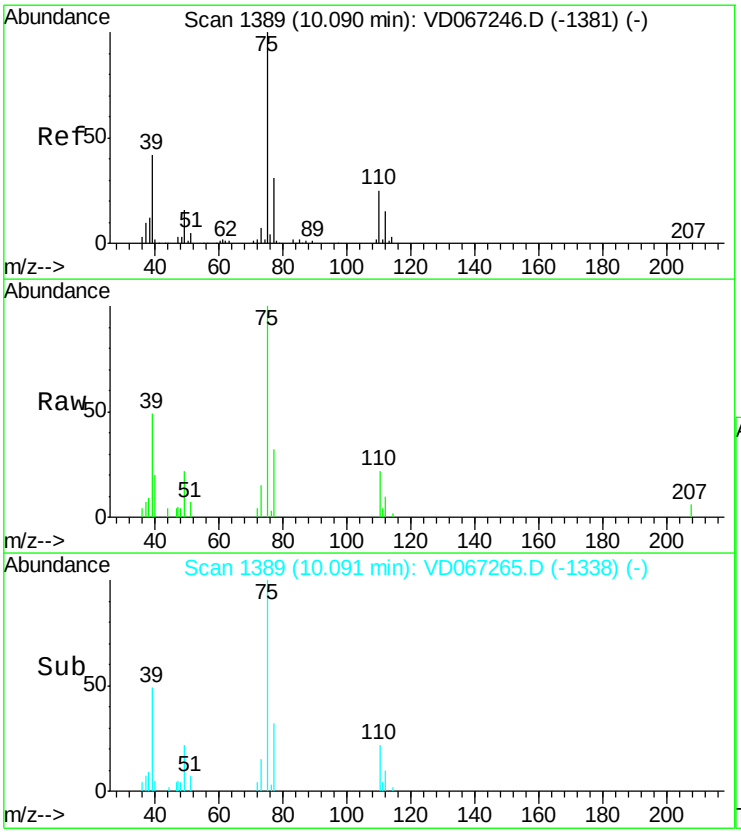
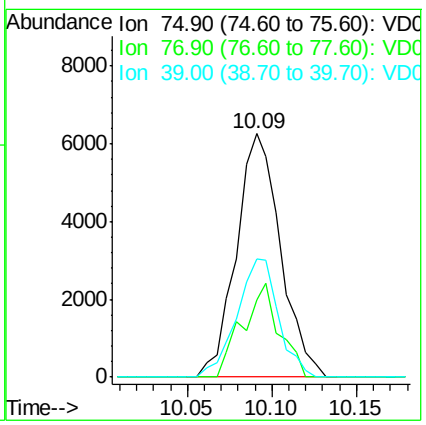


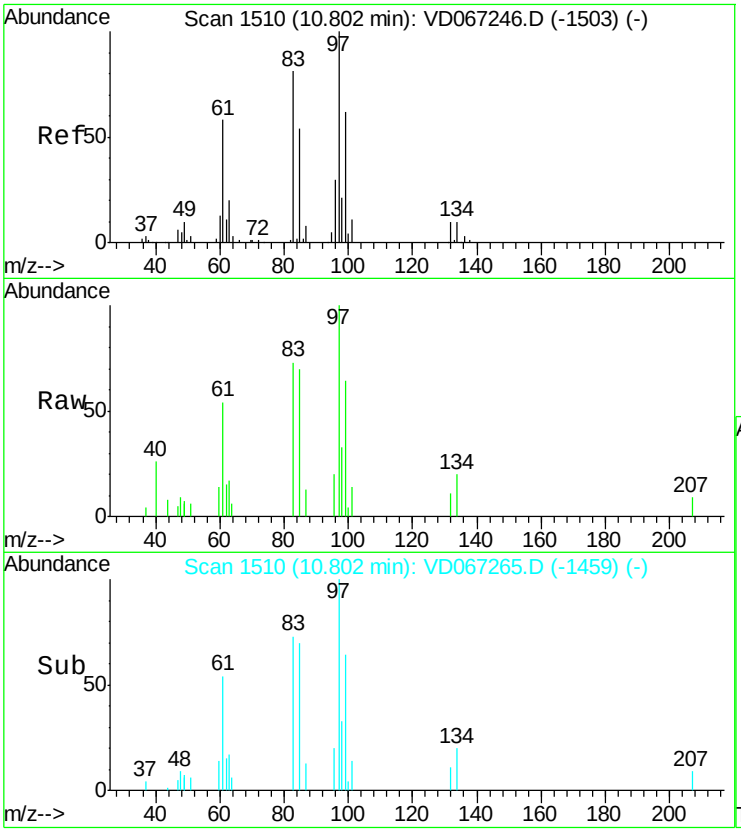




#54
cis-1,3-Dichloropropene
Concen: 3.090 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 75 Resp: 11366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 24.5 | 36.7 |
| 39 | 48.8 | 33.7 | 50.5 |

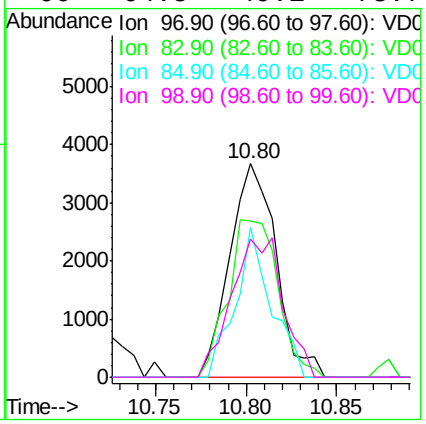





#55
1,1,2-Trichloroethane
Concen: 3.593 ug/l
RT: 10.80 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 97 Resp: 6544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 73.2 | 64.9 | 97.3 |
| 85 | 70.0 | 43.3 | 64.9# |
| 99 | 64.5 | 49.1 | 73.7 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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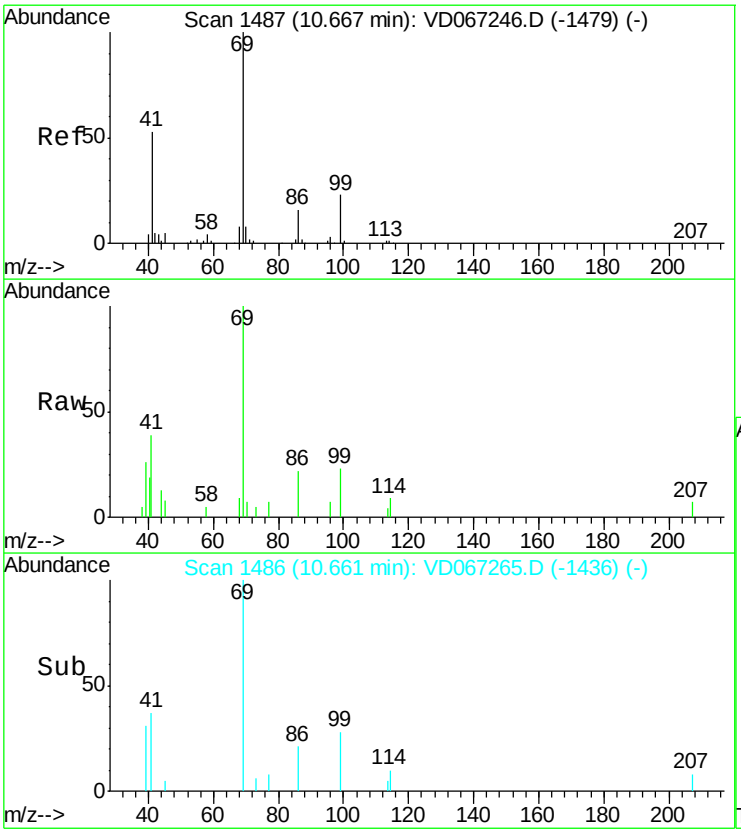
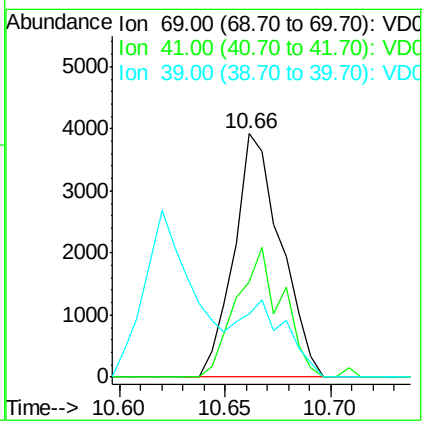
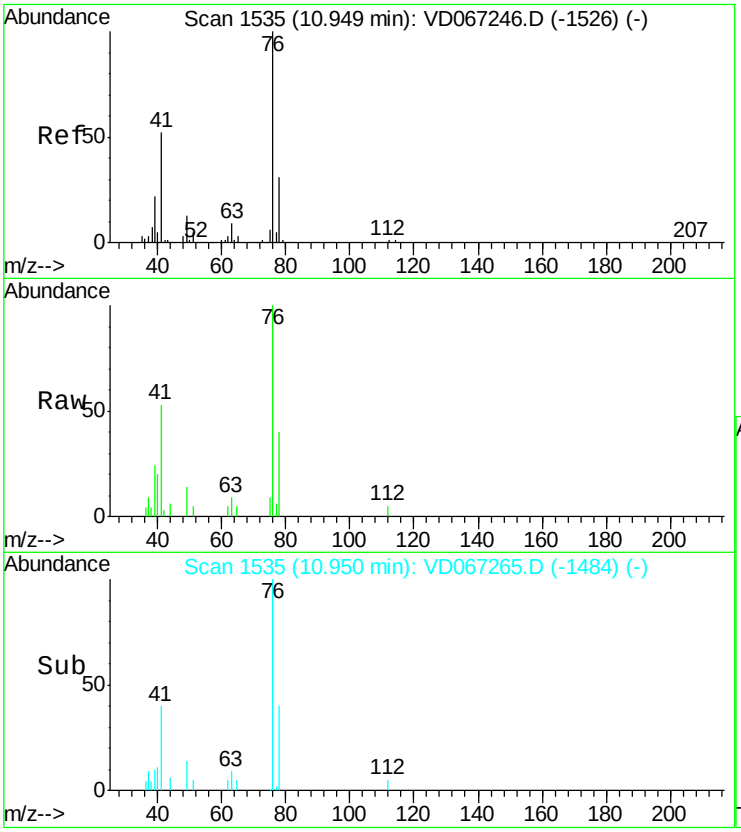



#56
Ethyl methacrylate
Concen: 3.189 ug/l
RT: 10.66 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 69 Resp: 6024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 52.1 | 44.7 | 67.1 |
| 39 | 32.4 | 26.2 | 39.2 |






#57
1,3-Dichloropropane
Concen: 3.369 ug/l
RT: 10.95 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 76 Resp: 9765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 35.1 | 26.8 | 40.2 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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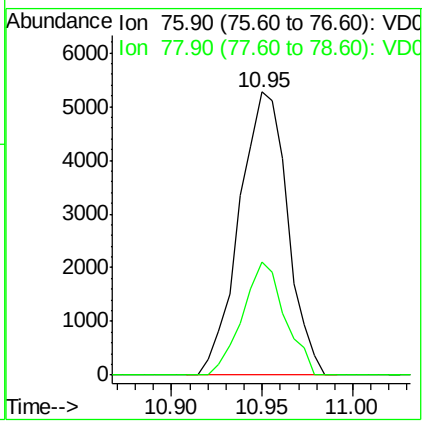
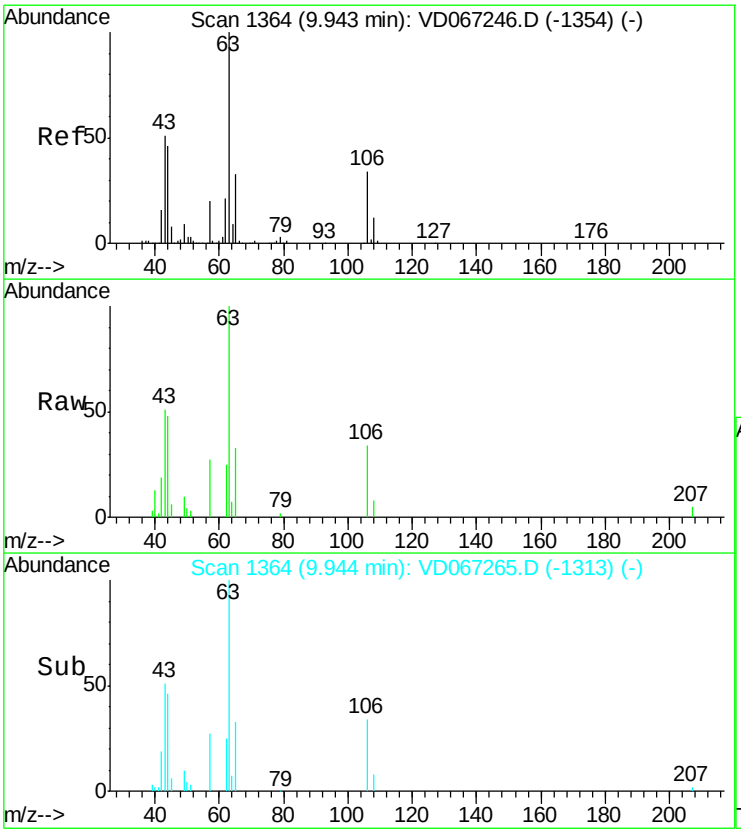
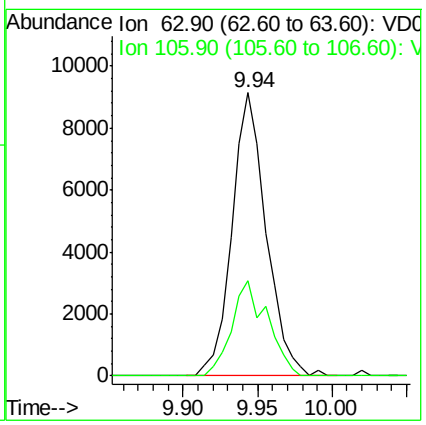


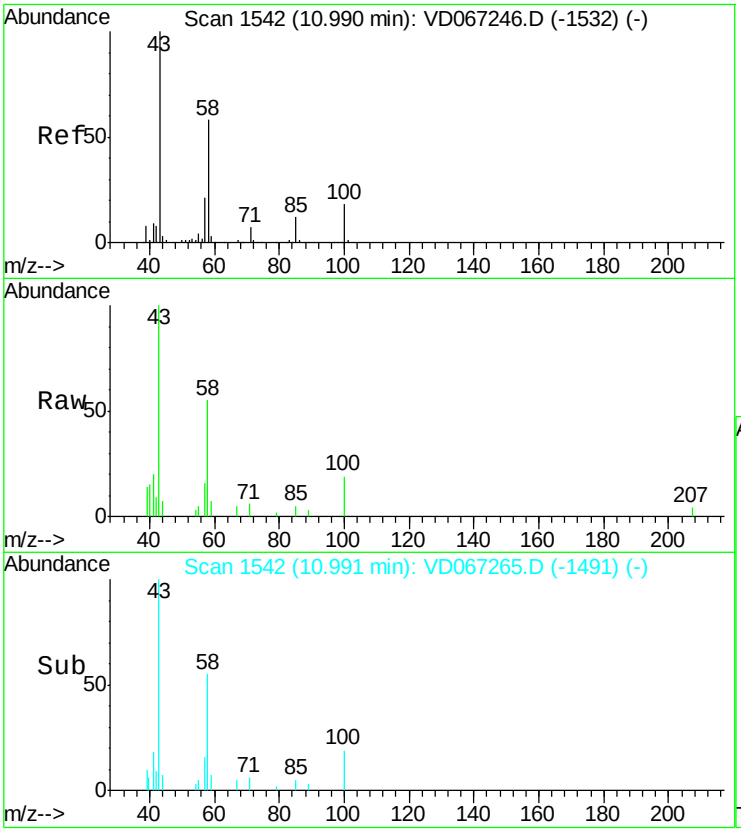




#58
2-Chloroethyl Vinyl ether
Concen: 14.993 ug/l
RT: 9.94 min Scan# 1364
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 63 Resp: 14528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 34.9 | 27.8 | 41.6 |






#59
2-Hexanone
Concen: 17.103 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 11474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.7 | 29.3 | 87.9 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
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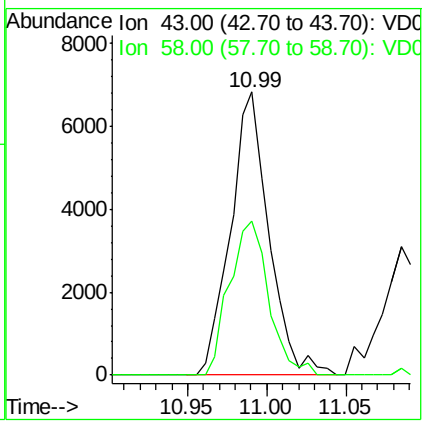
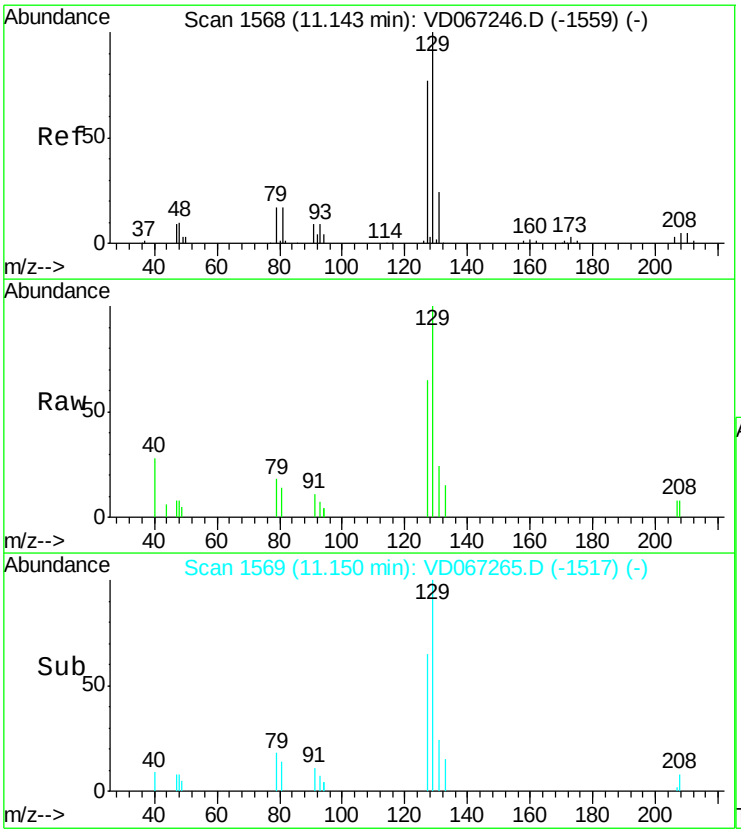
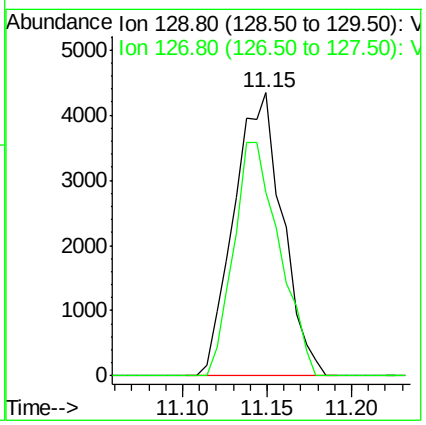


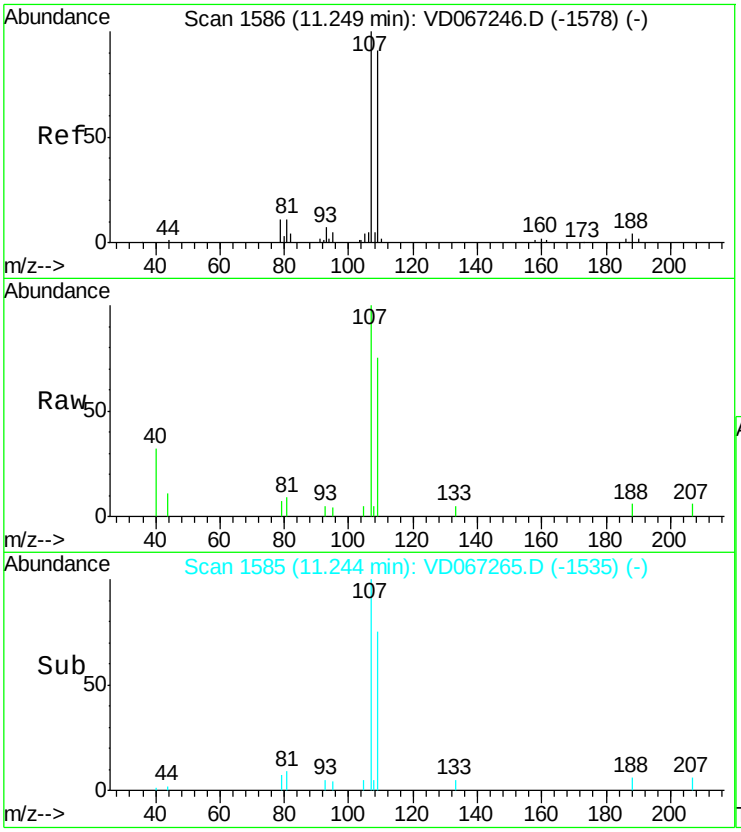




#60
Dibromochloromethane
Concen: 3.270 ug/l
RT: 11.15 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:129 Resp: 8685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 38.3 | 114.8 |

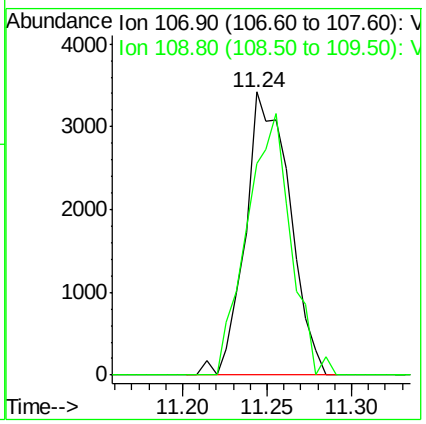





#61
1,2-Dibromoethane
Concen: 3.467 ug/l
RT: 11.24 min Scan# 1585
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:107 Resp: 6225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.0 | 74.6 | 112.0 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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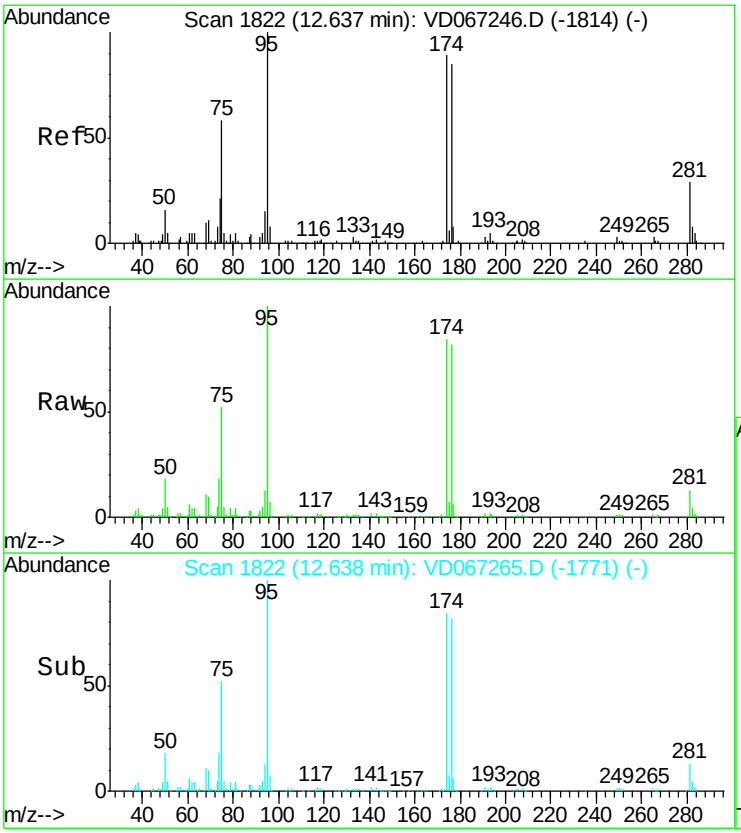
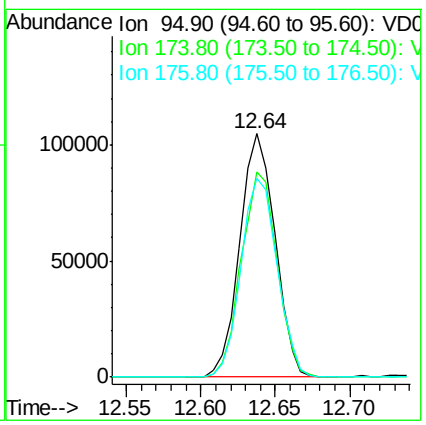
10/15/2020 12:18:48 PM

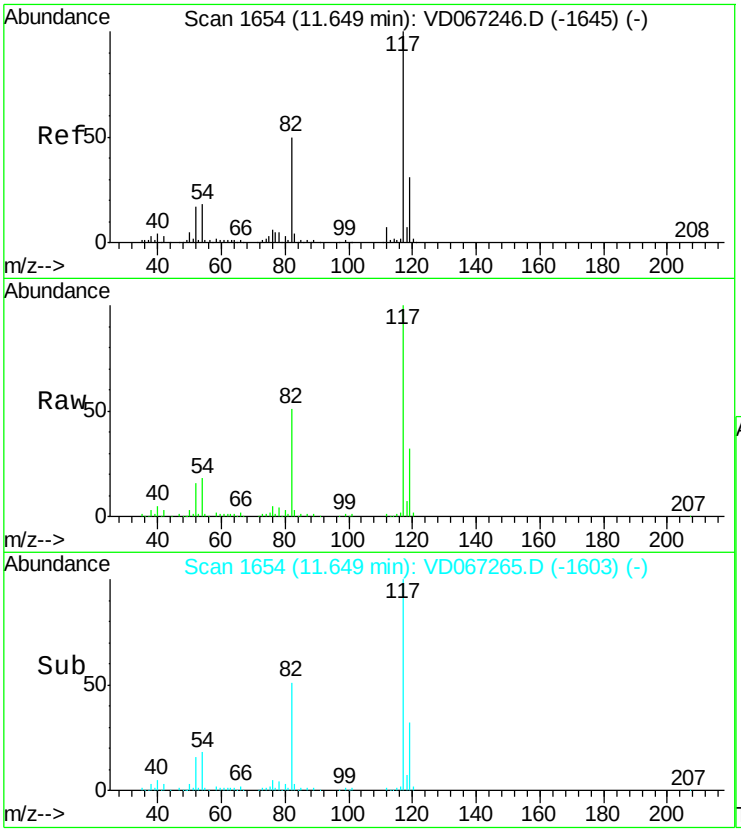



#62
4-Bromofluorobenzene
Concen: 51.444 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 95 Resp: 171379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.6 | 0.0 | 175.2 |
| 176 | 83.6 | 0.0 | 168.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:117 Resp: 386716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.5 | 39.9 | 59.9 |
| 119 | 32.5 | 24.9 | 37.3 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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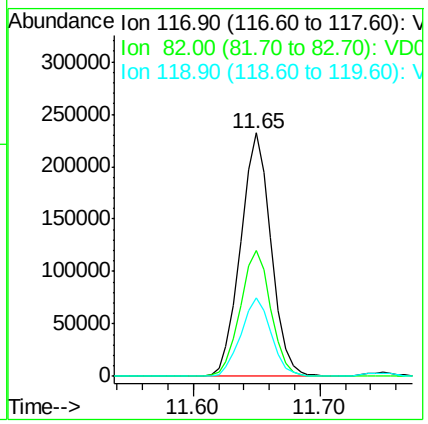
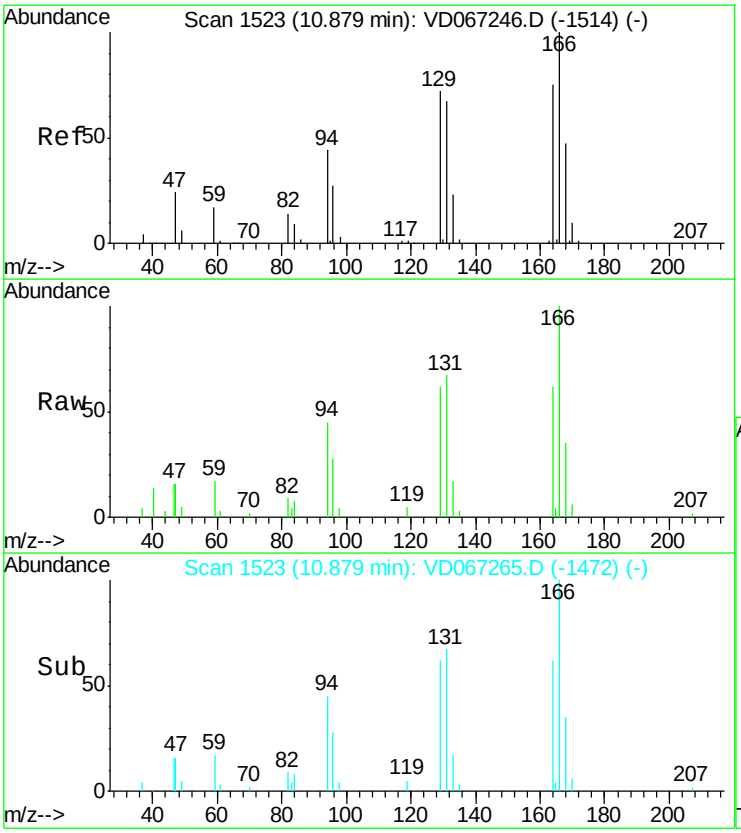
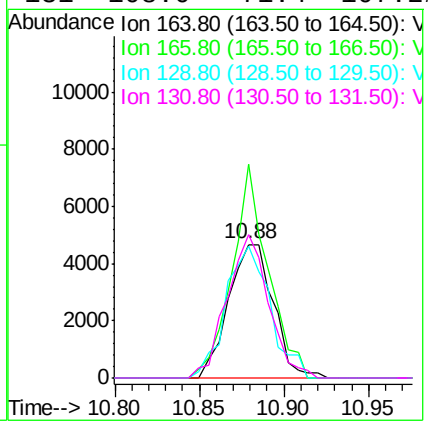


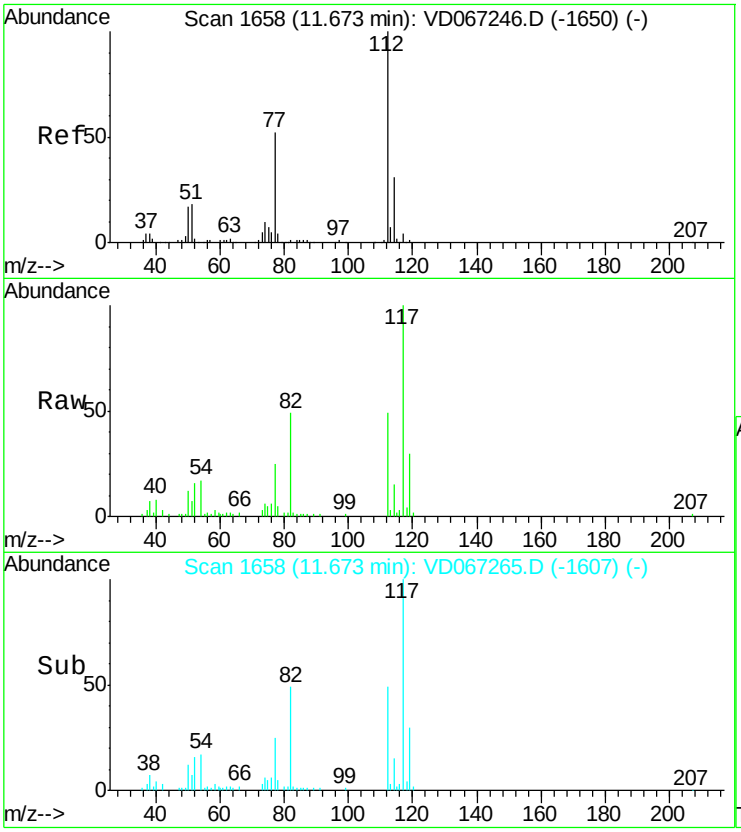




#64
Tetrachloroethene
Concen: 3.075 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:164 Resp: 8615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 160.3 | 107.3 | 160.9 |
| 129 | 98.7 | 77.3 | 115.9 |
| 131 | 108.0 | 71.4 | 107.2# |






#65
Chlorobenzene
Concen: 3.037 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:112 Resp: 22524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.2 | 25.0 | 37.4 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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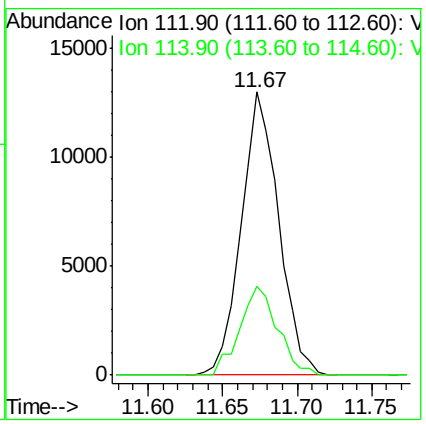
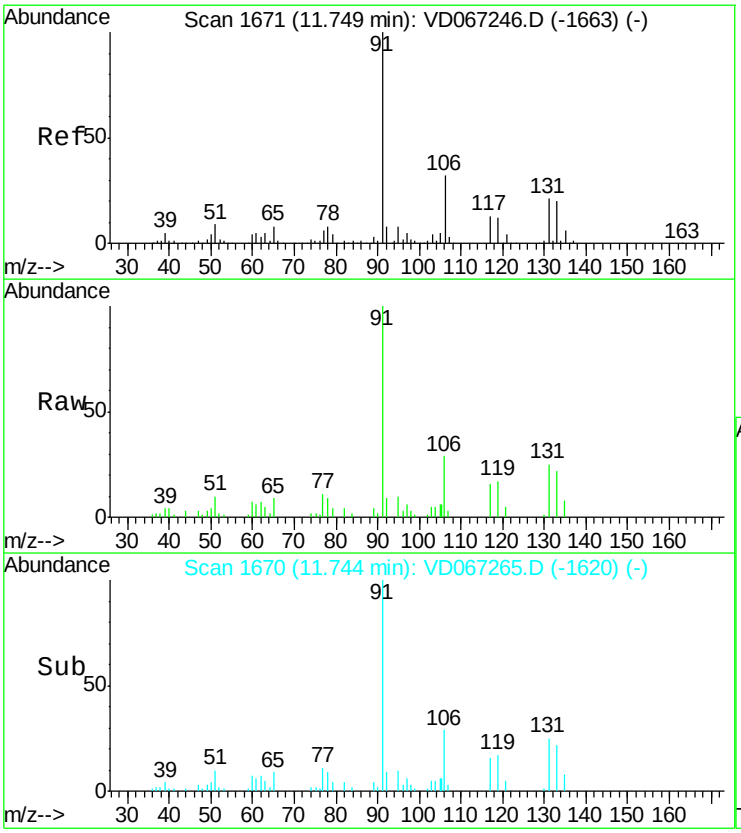
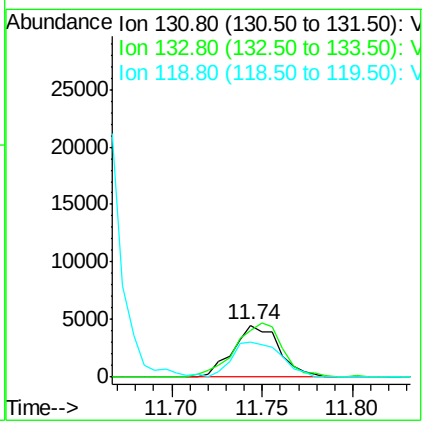


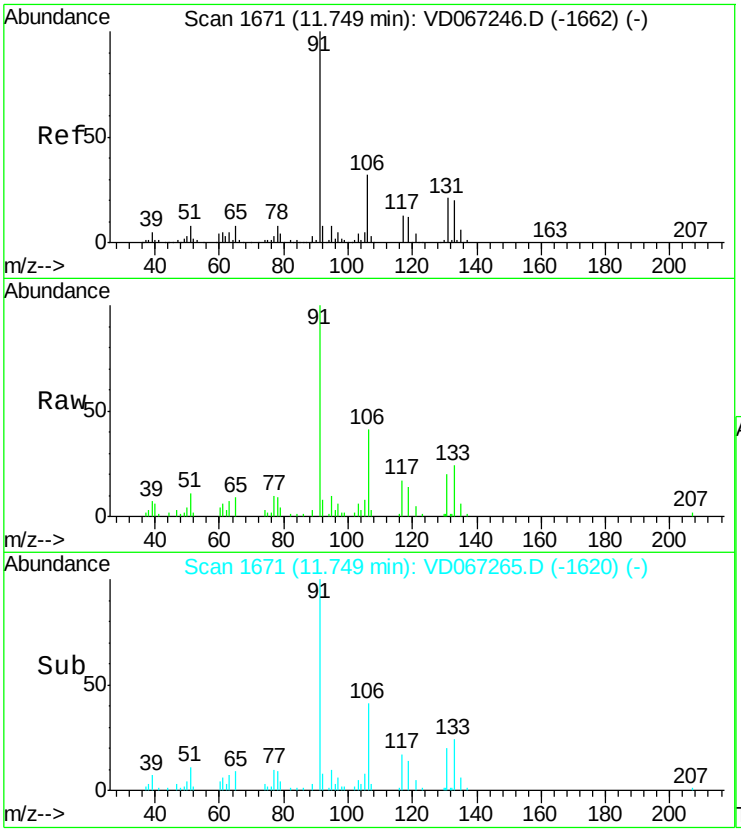




#66
1,1,1,2-Tetrachloroethane
Concen: 2.704 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:131 Resp: 7969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 108.5 | 48.1 | 144.3 |
| 119 | 71.3 | 30.0 | 90.0 |






#67
Ethyl Benzene
Concen: 2.586 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 91 Resp: 32870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.6 | 25.4 | 38.0# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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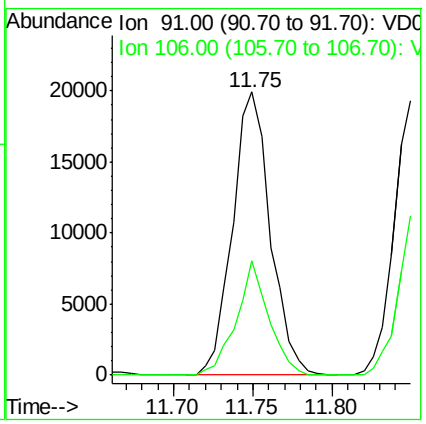
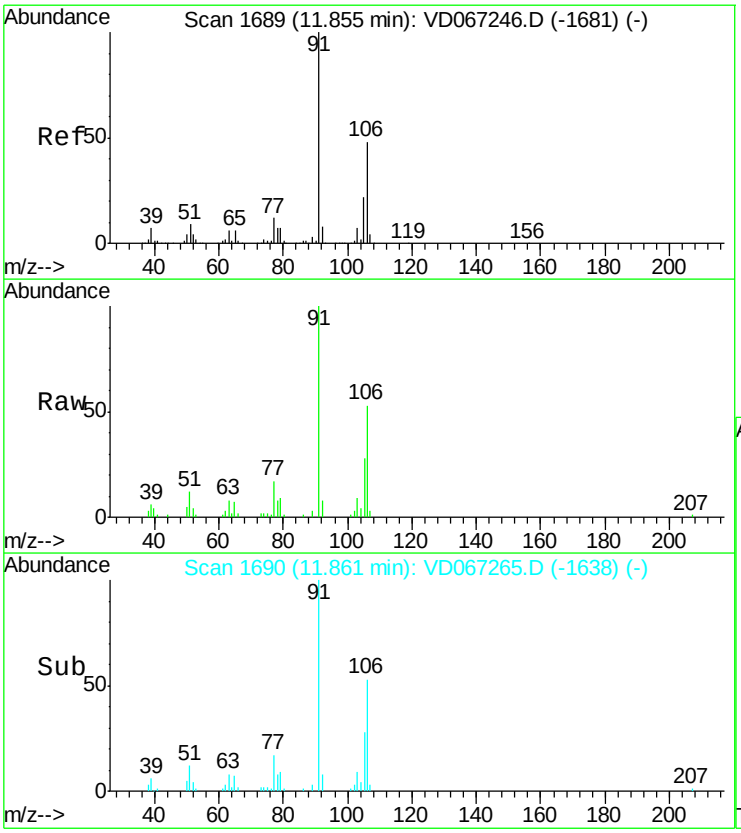
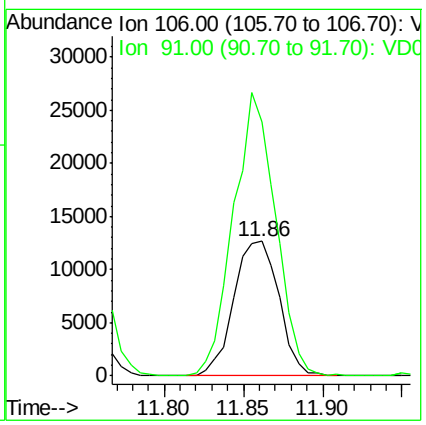


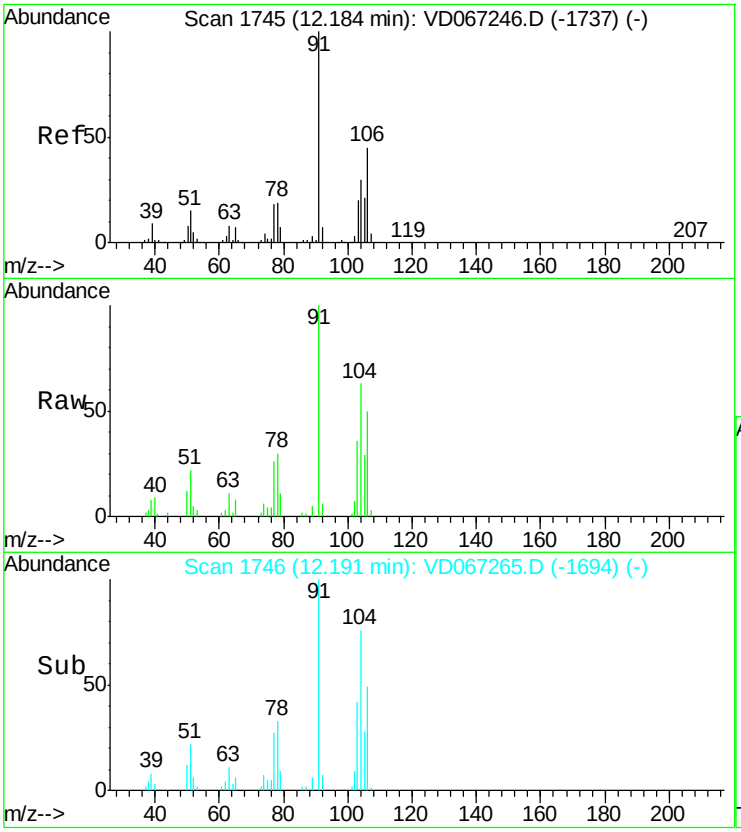




#68
m/p-Xylenes
Concen: 5.121 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:106 Resp: 25066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.1 | 163.8 | 245.8 |






#69
o-Xylene
Concen: 2.587 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:106 Resp: 11729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.5 | 109.1 | 327.3 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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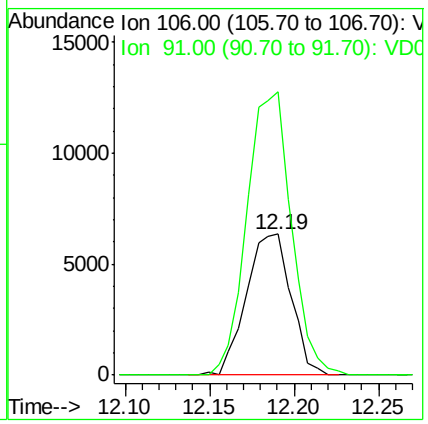
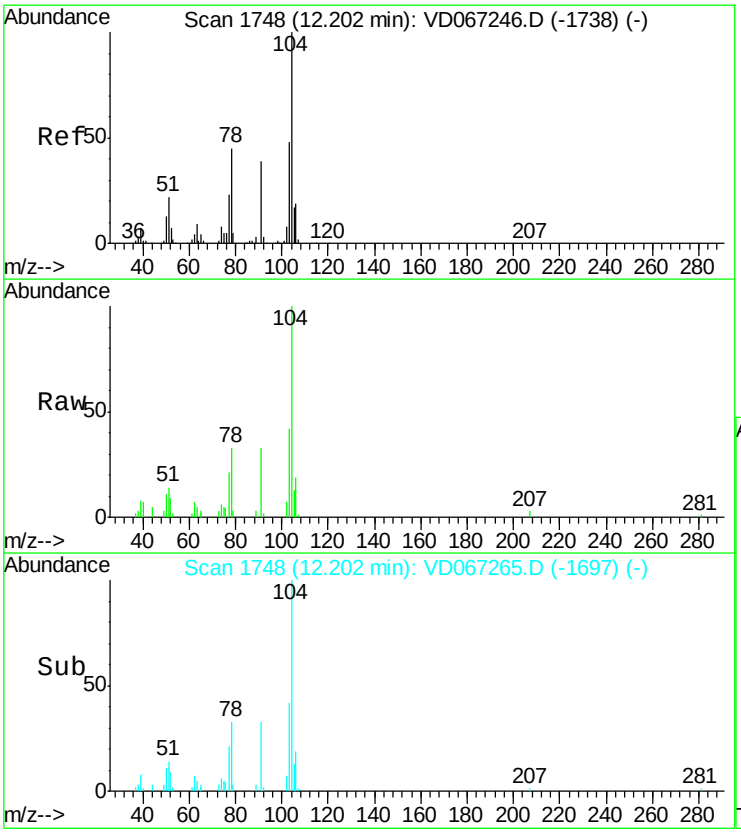
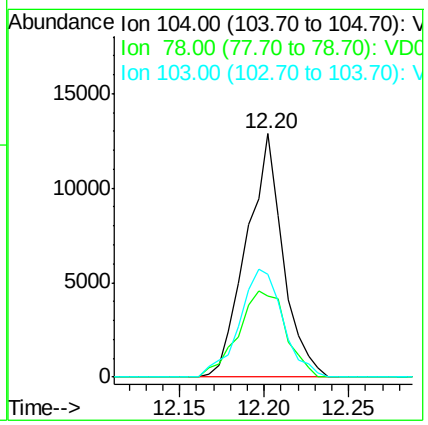


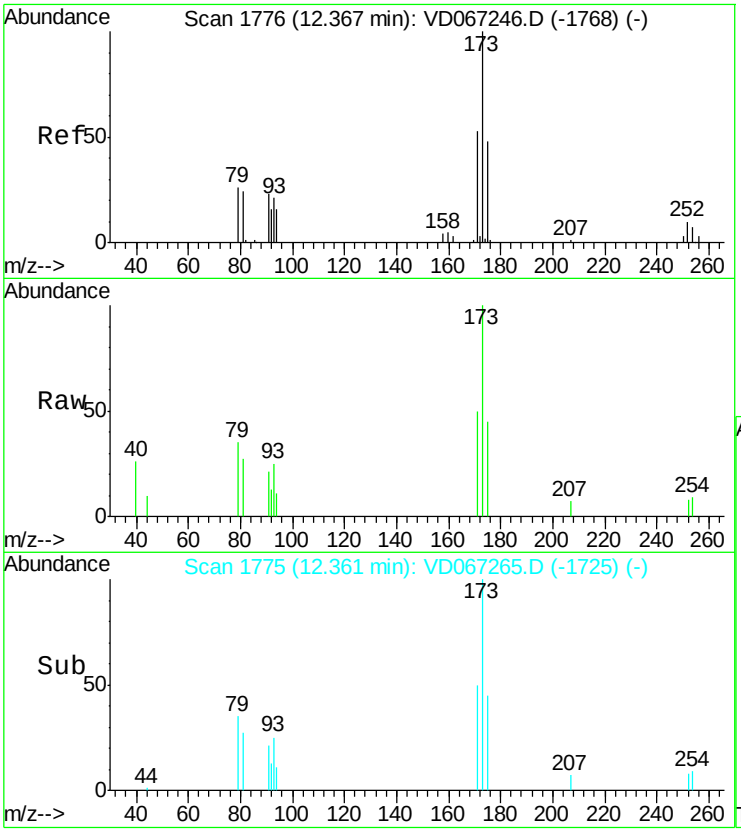




#70
Styrene
Concen: 2.487 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:104 Resp: 19408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.0 | 39.8 | 59.6 |
| 103 | 52.6 | 42.6 | 64.0 |






#71
Bromoform
Concen: 3.175 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:173 Resp: 5027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 52.3 | 24.2 | 72.6 |
| 254 | 0.0 | 0.1 | 0.1# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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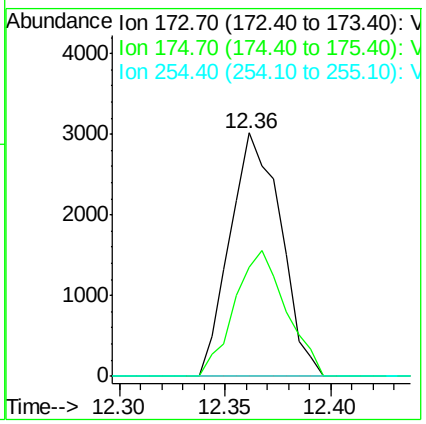
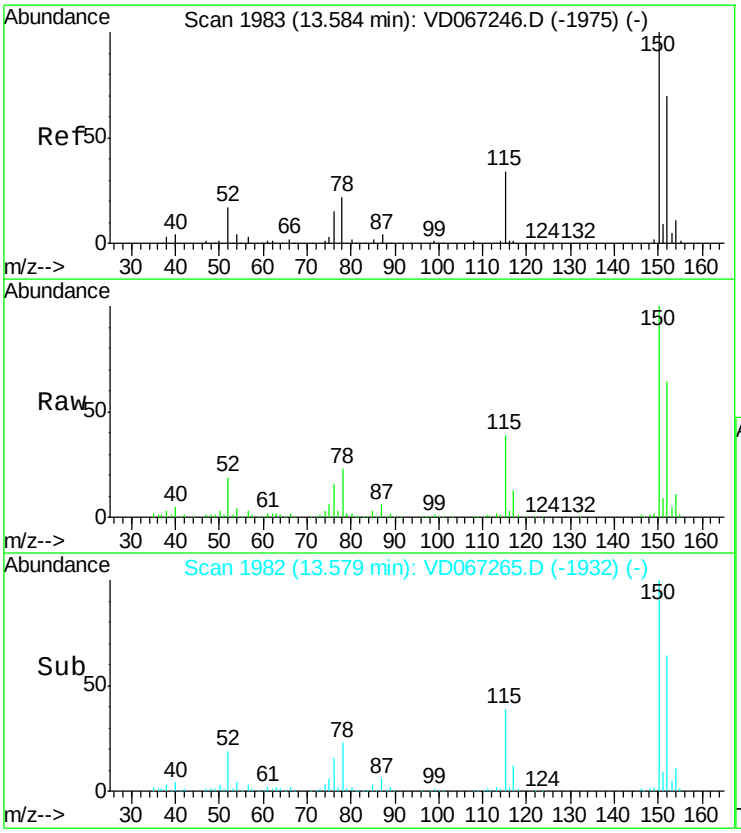
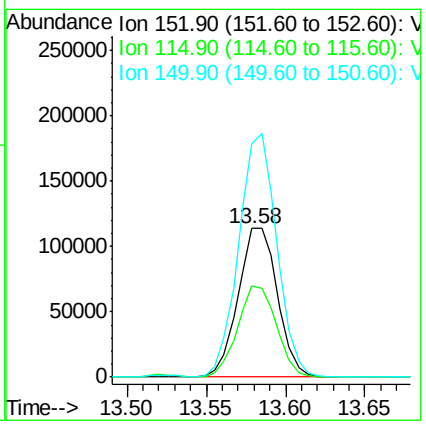


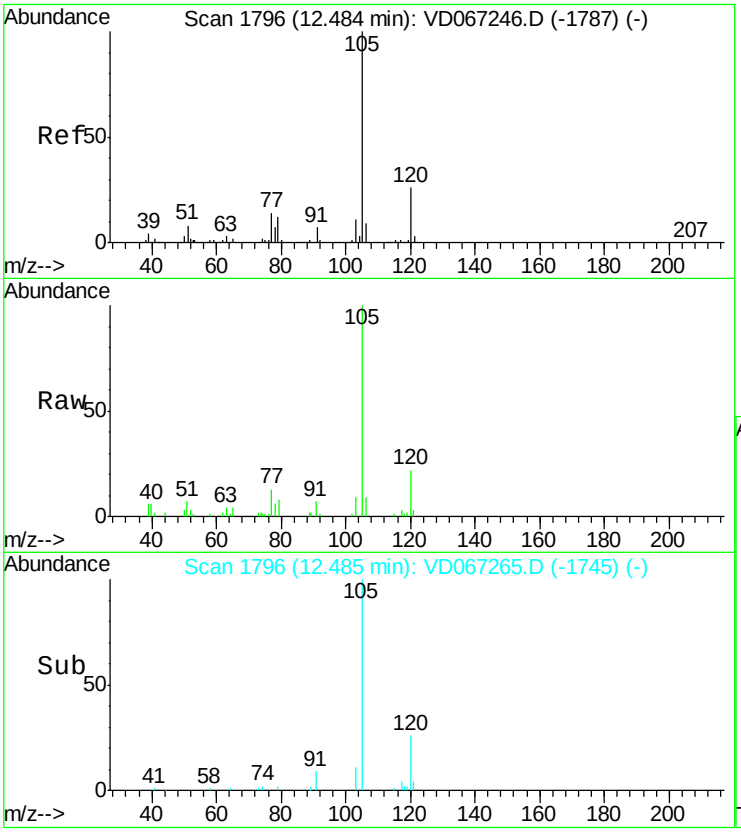




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:152 Resp: 195747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.6 | 29.3 | 87.9 |
| 150 | 158.8 | 0.0 | 339.0 |






#73
Isopropylbenzene
Concen: 2.435 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:105 Resp: 30254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.6 | 13.3 | 39.8 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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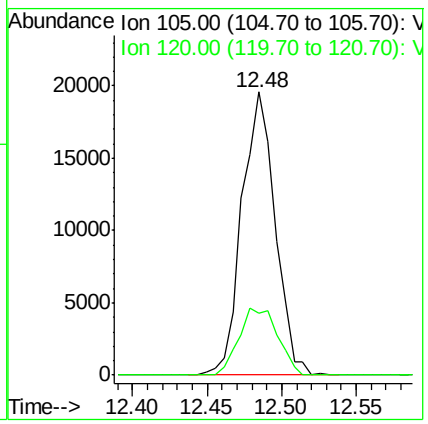
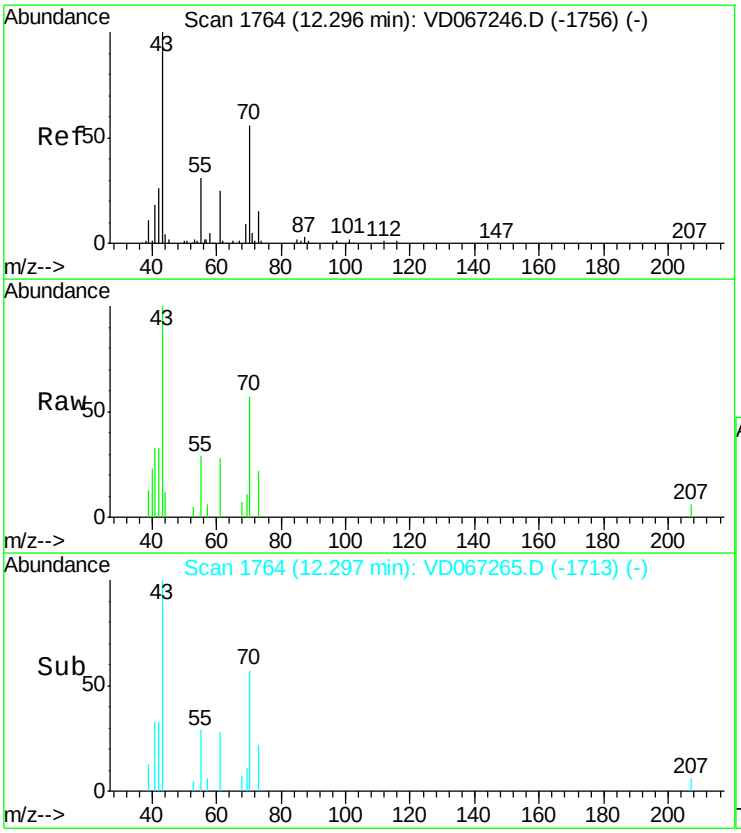
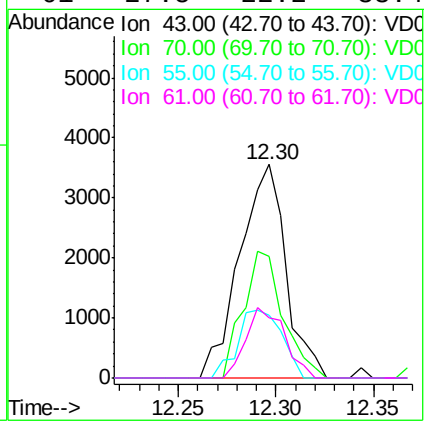


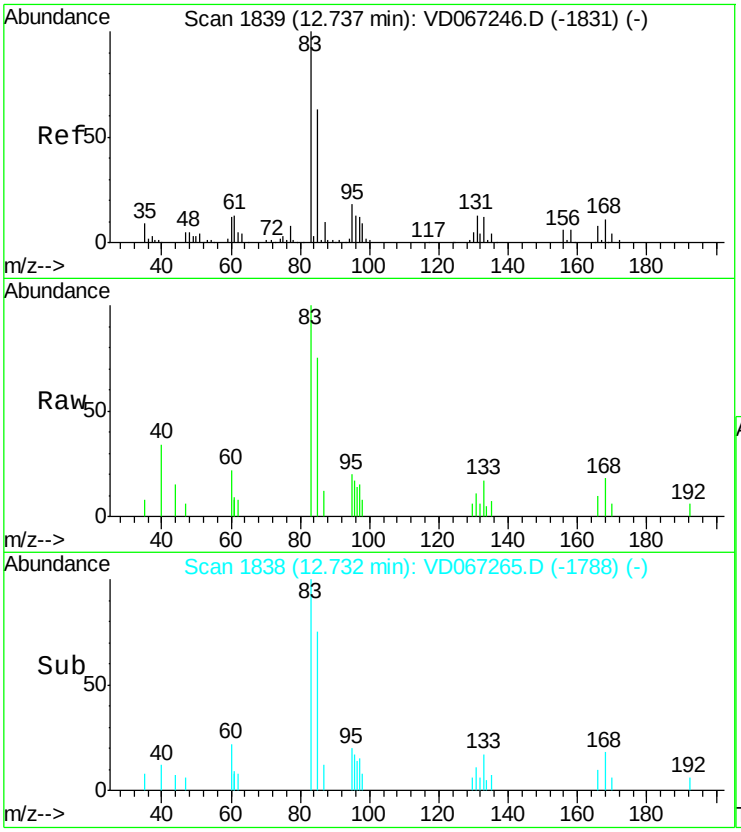




#74
N-amyl acetate
Concen: 3.111 ug/l
RT: 12.30 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 43 Resp: 5837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.4 | 42.7 | 64.1 |
| 55 | 30.4 | 24.0 | 36.0 |
| 61 | 27.5 | 22.2 | 33.4 |

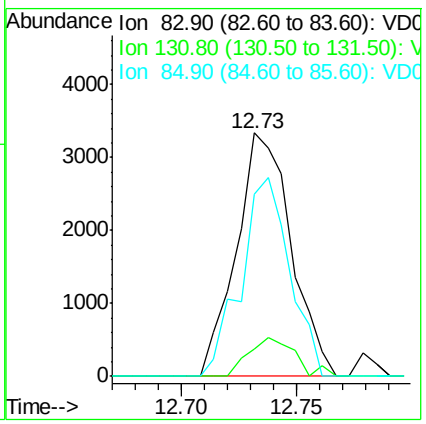





#75
1,1,2,2-Tetrachloroethane
Concen: 2.901 ug/l
RT: 12.73 min Scan# 1838
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 83 Resp: 5523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 13.4 | 6.5 | 19.5 |
| 85 | 72.4 | 32.6 | 97.7 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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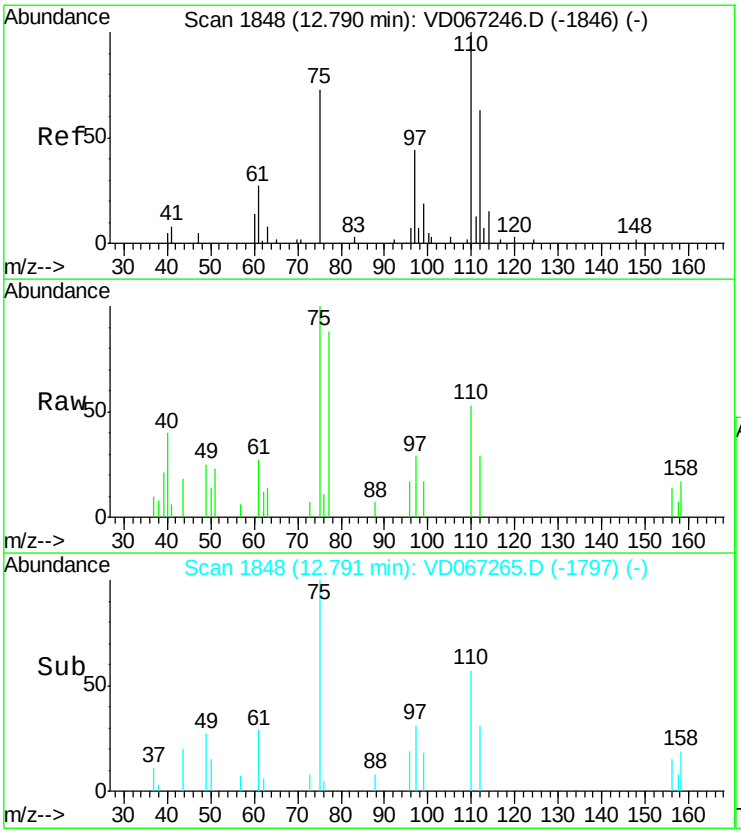
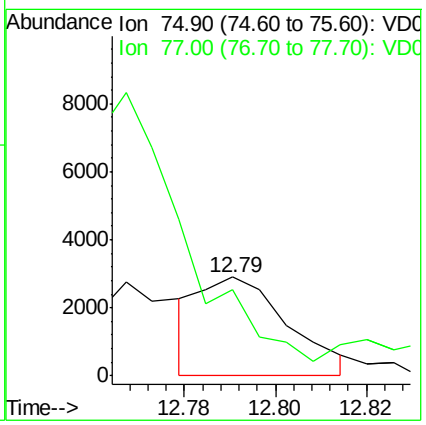
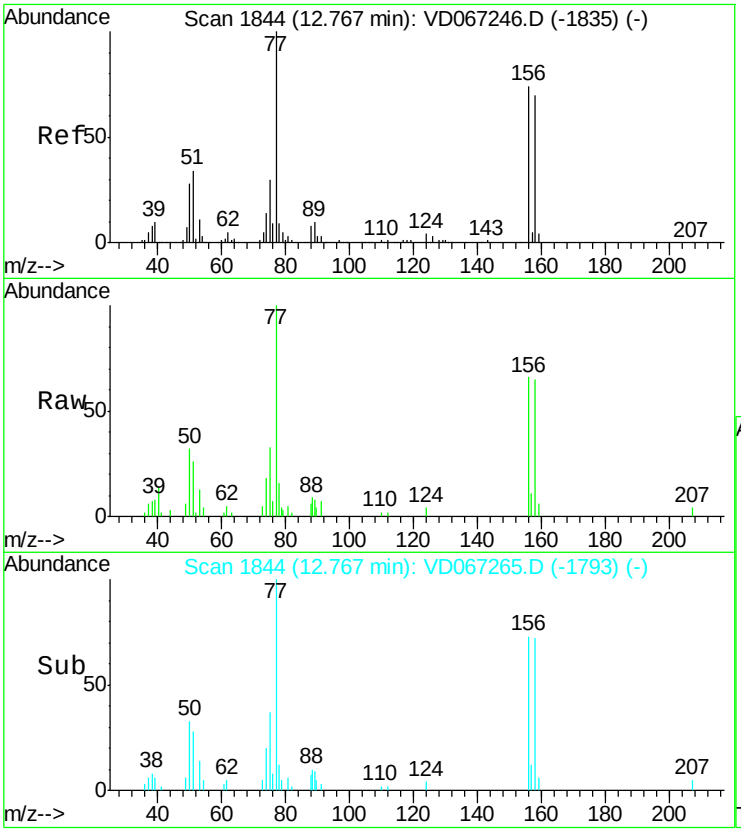



#76
1,2,3-Trichloropropane
Concen: 2.875 ug/l m
RT: 12.79 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 75 Resp: 3901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 392.8 | 0.0 | 0.0# |






#77
Bromobenzene
Concen: 2.874 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:156 Resp: 8901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.2 | 78.0 | 233.8 |
| 158 | 100.9 | 49.1 | 147.3 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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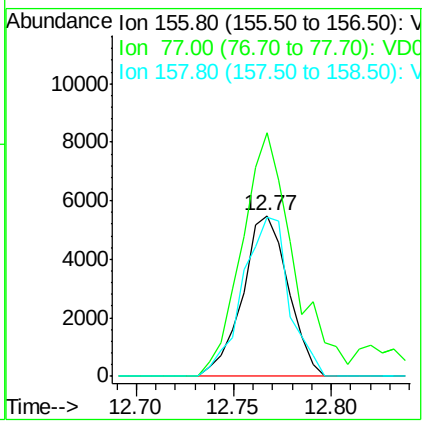
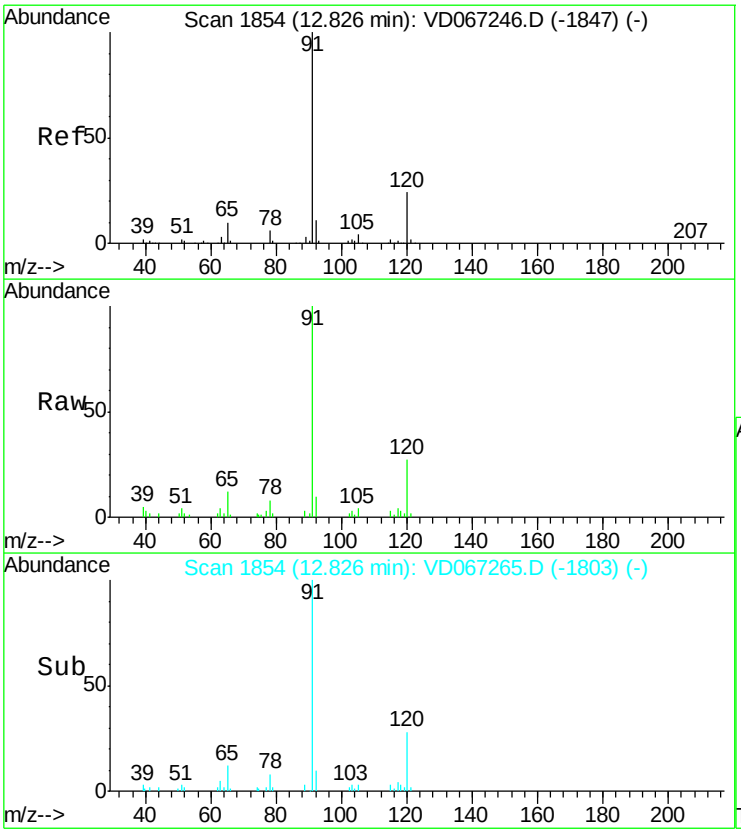
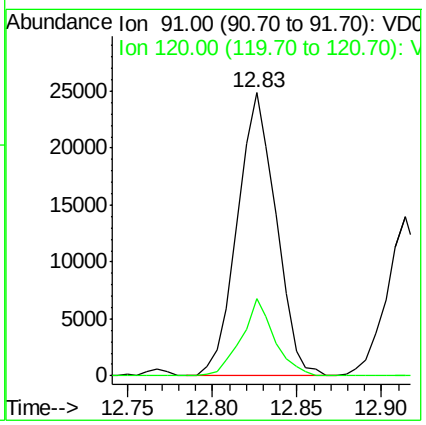


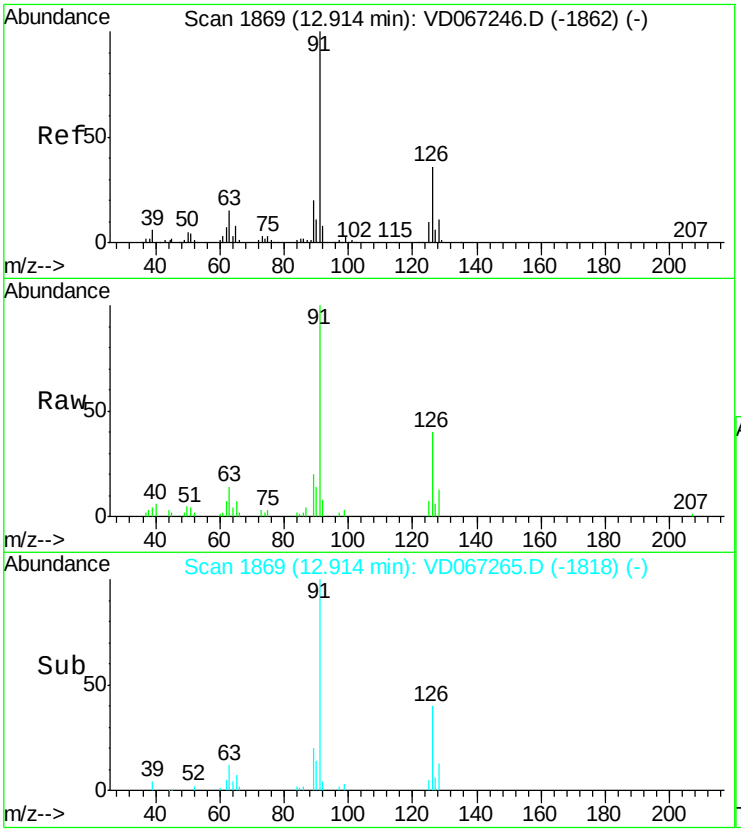




#78
n-propylbenzene
Concen: 2.756 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 91 Resp: 39667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.2 | 11.9 | 35.9 |





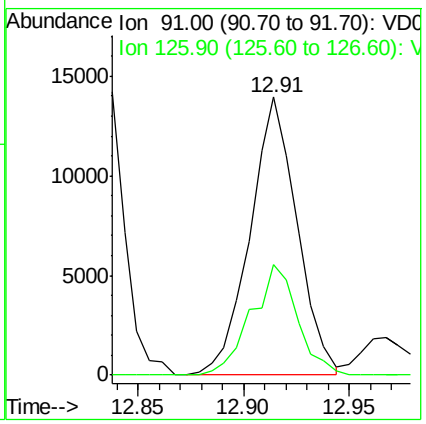

#79
2-Chlorotoluene
Concen: 2.591 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

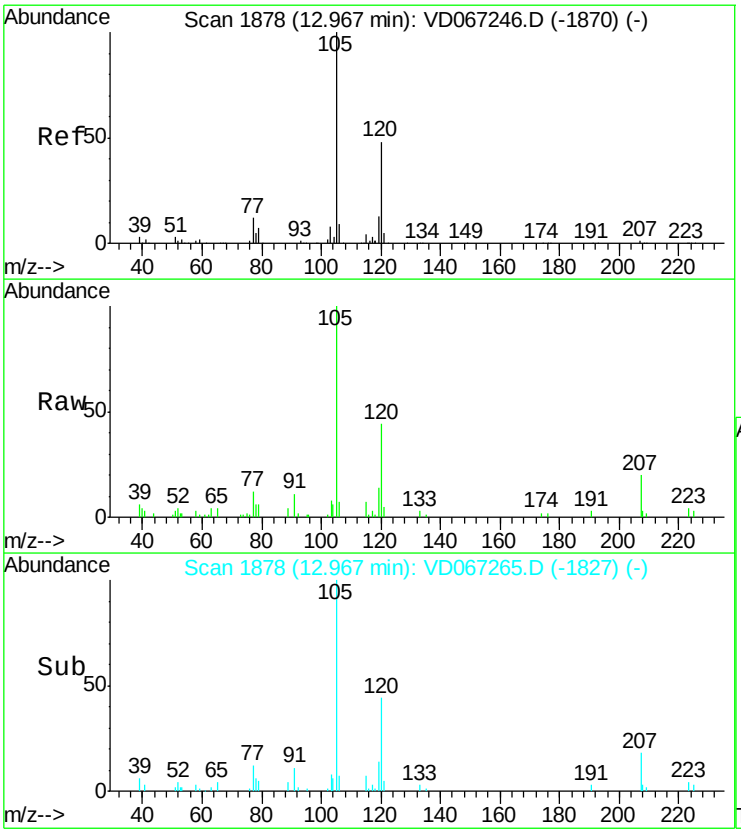
Tgt Ion: 91 Resp: 21631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 38.8 | 17.6 | 52.8 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
MMDadoda
10/15/2020 12:18:48 PM

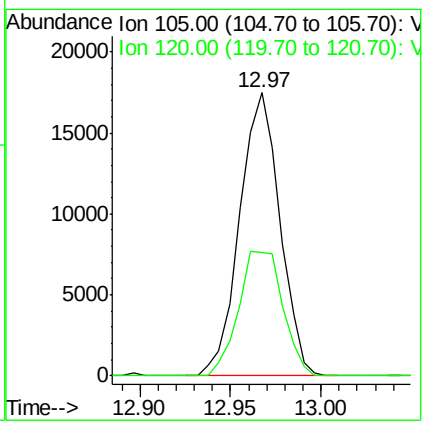


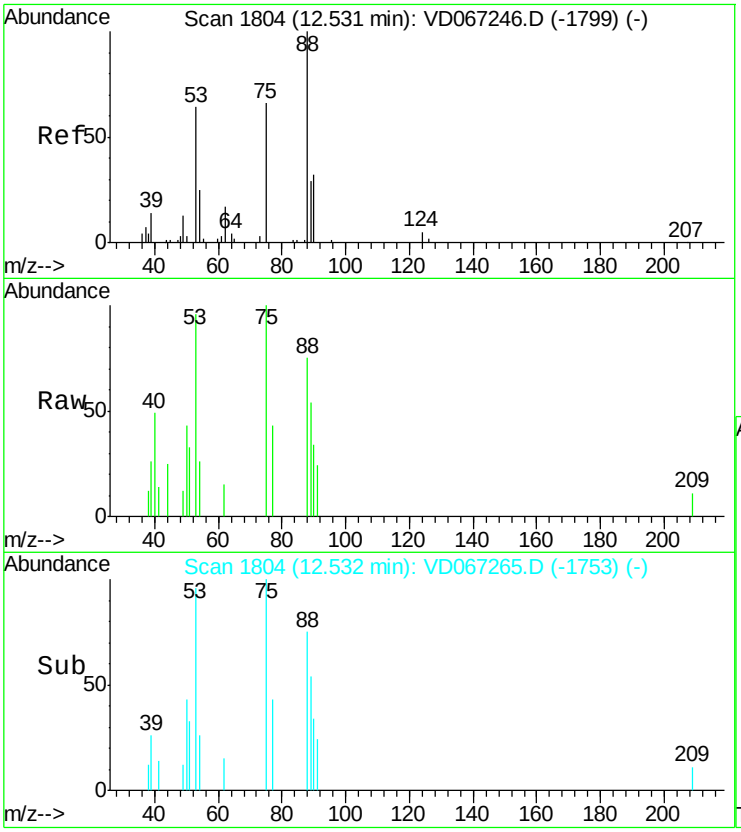




#80
1,3,5-Trimethylbenzene
Concen: 2.500 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:105 Resp: 26994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.6 | 24.3 | 72.8 |






#81
trans-1,4-Dichloro-2-butene
Concen: 2.907 ug/l m
RT: 12.53 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 75 Resp: 1739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 78.5 | 117.7# |
| 89 | 8.1 | 39.9 | 59.9# |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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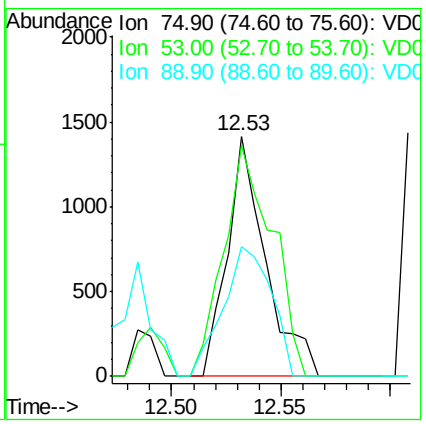
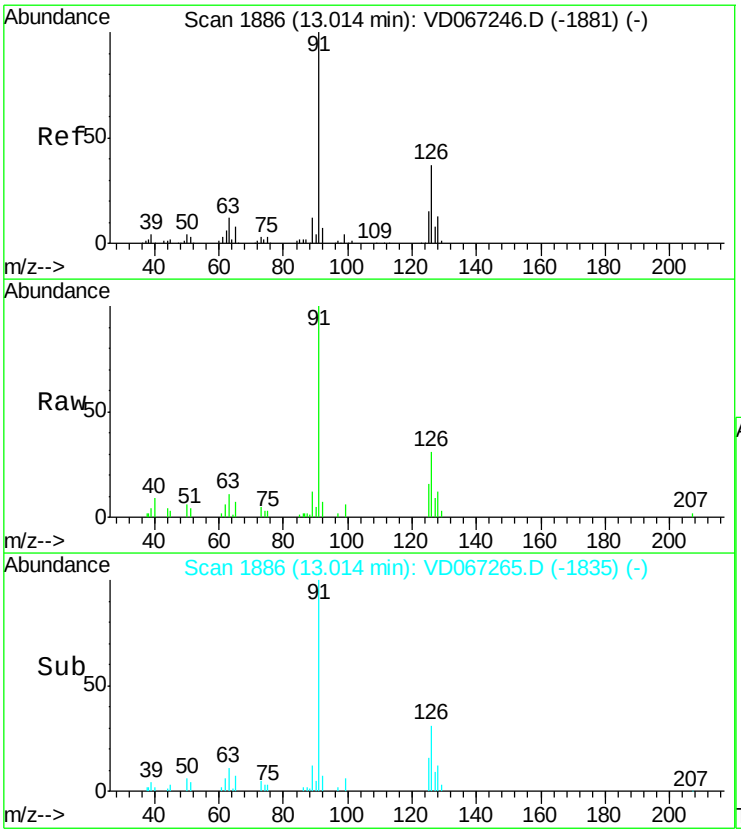
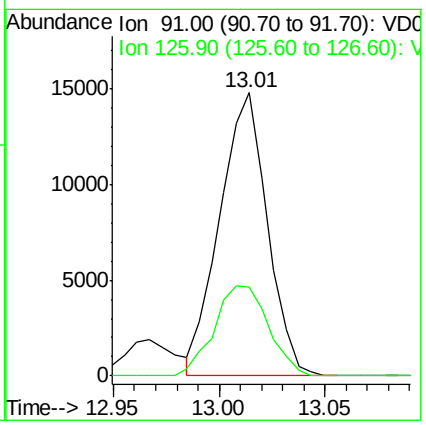


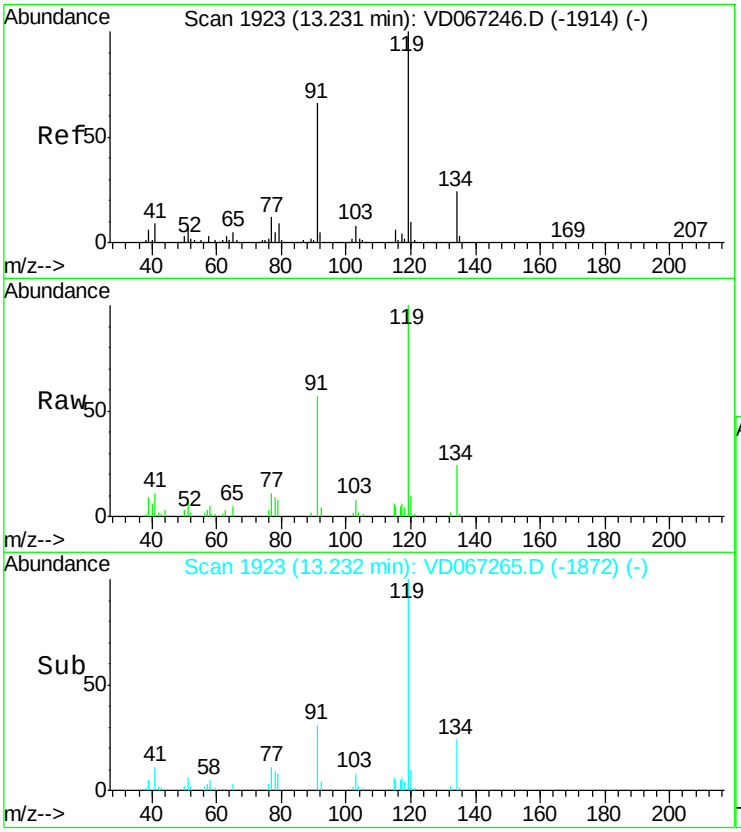




#82
4-Chlorotoluene
Concen: 2.601 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 91 Resp: 23041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.1 | 17.8 | 53.5 |






#83
tert-Butylbenzene
Concen: 2.461 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:119 Resp: 22439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.2 | 33.1 | 99.2 |
| 134 | 27.7 | 13.3 | 39.9 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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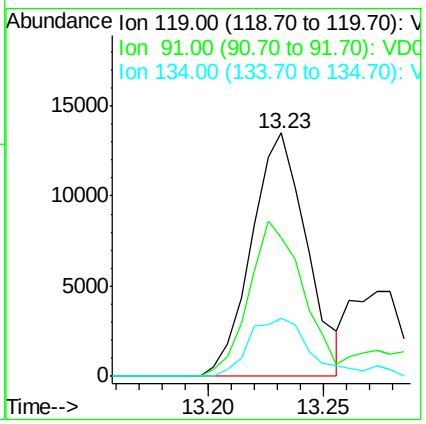
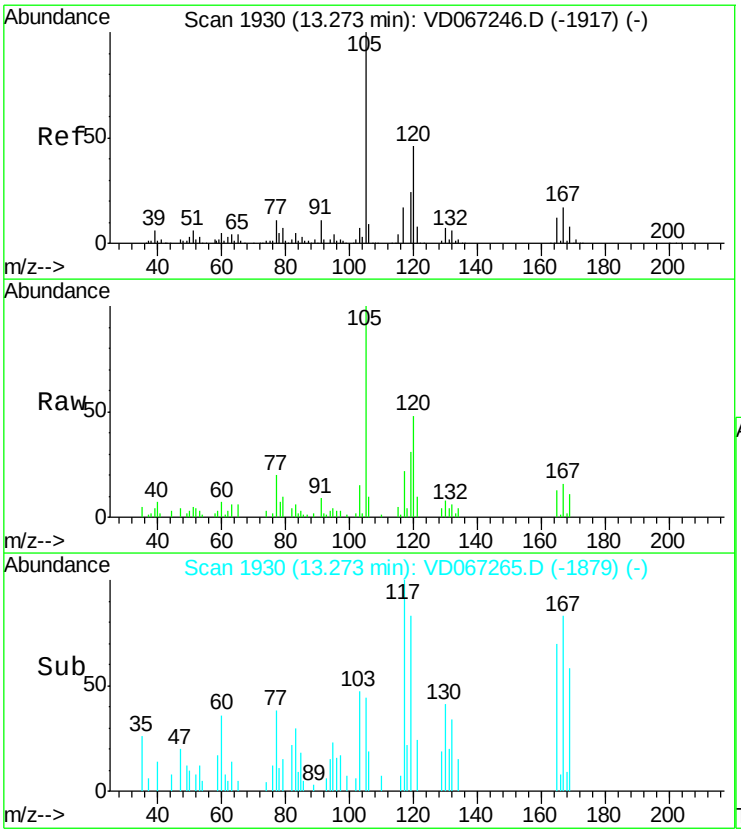
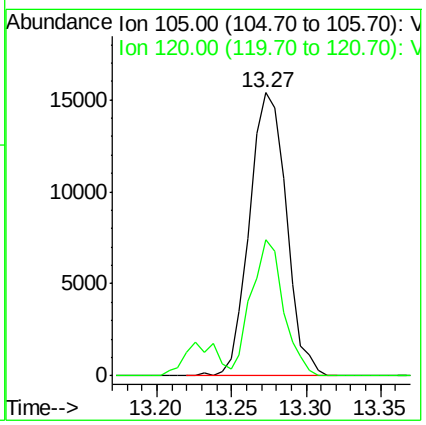


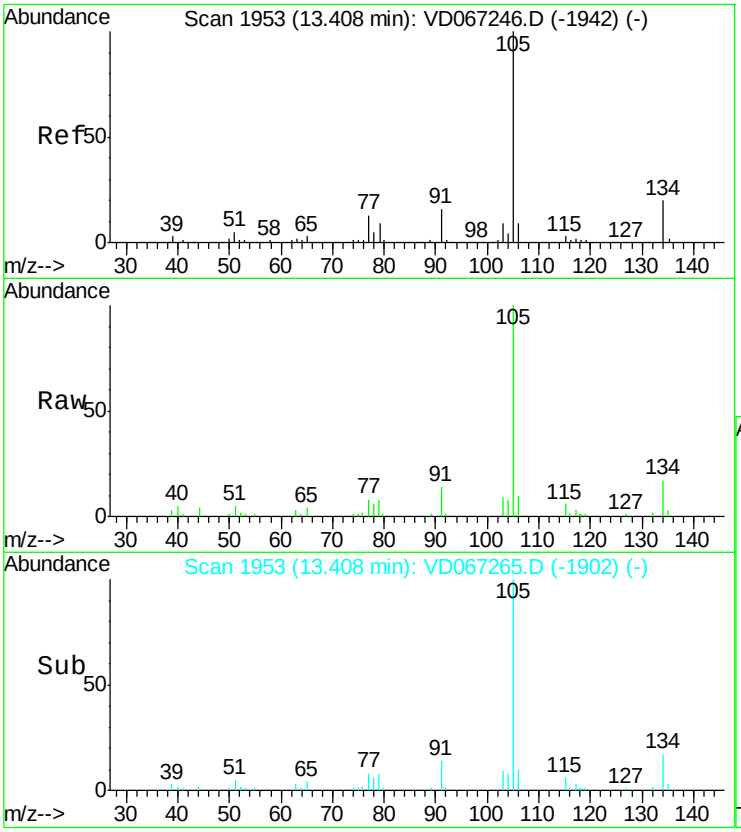




#84
1,2,4-Trimethylbenzene
Concen: 2.452 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:105 Resp: 26160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.2 | 22.4 | 67.3 |






#85
sec-Butylbenzene
Concen: 2.503 ug/l
RT: 13.41 min Scan# 1953
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:105 Resp: 31315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 10.5 | 31.5 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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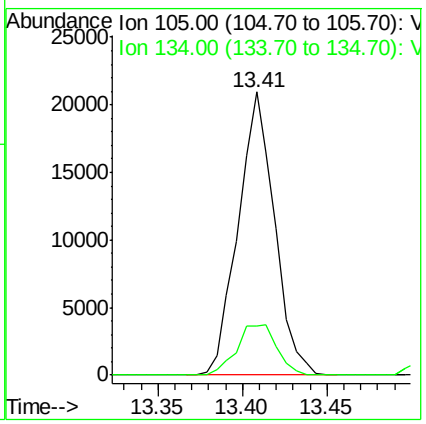
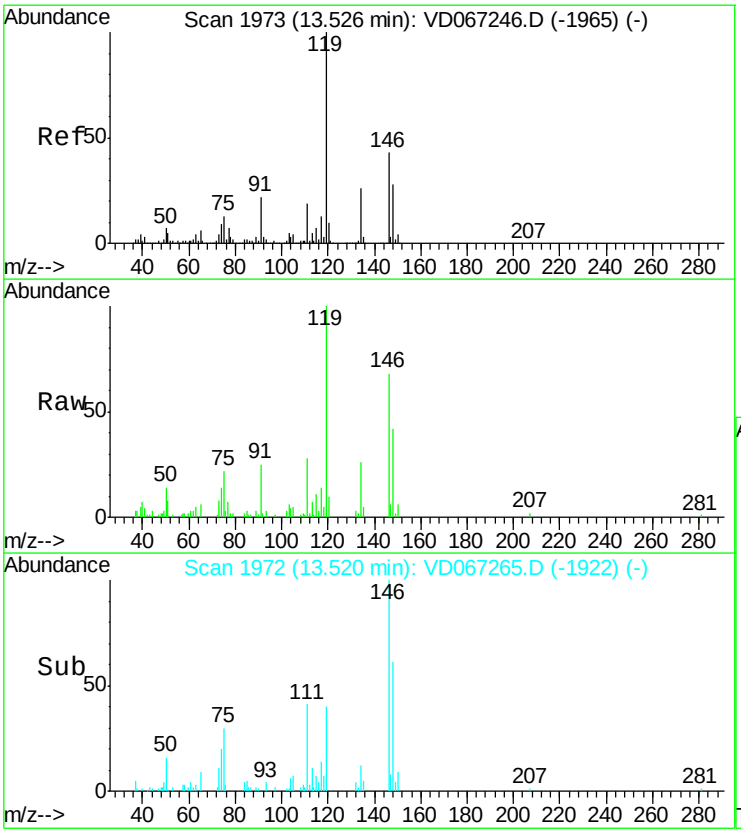
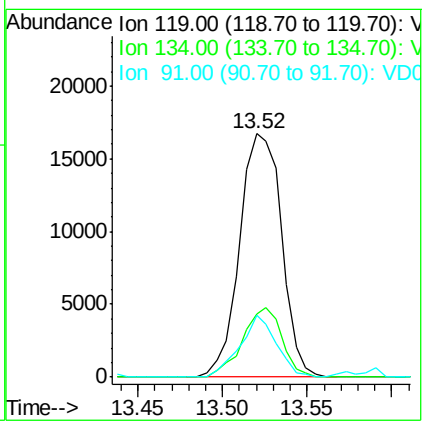


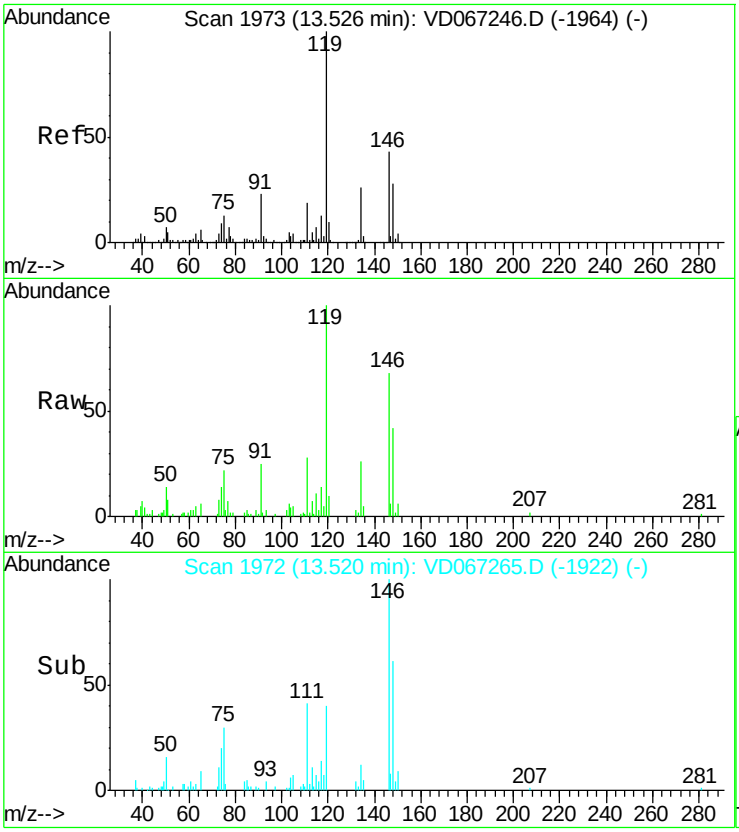




#86
p-Isopropyltoluene
Concen: 2.437 ug/l
RT: 13.52 min Scan# 1972
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:119 Resp: 28786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.1 | 39.3 |
| 91 | 22.1 | 11.9 | 35.9 |

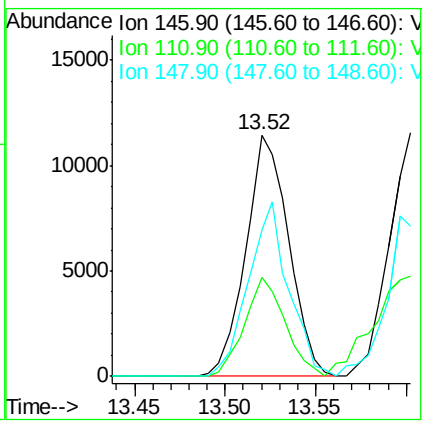





#87
1,3-Dichlorobenzene
Concen: 3.158 ug/l
RT: 13.52 min Scan# 1972
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:146 Resp: 18829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 21.1 | 63.3 |
| 148 | 67.8 | 31.9 | 95.9 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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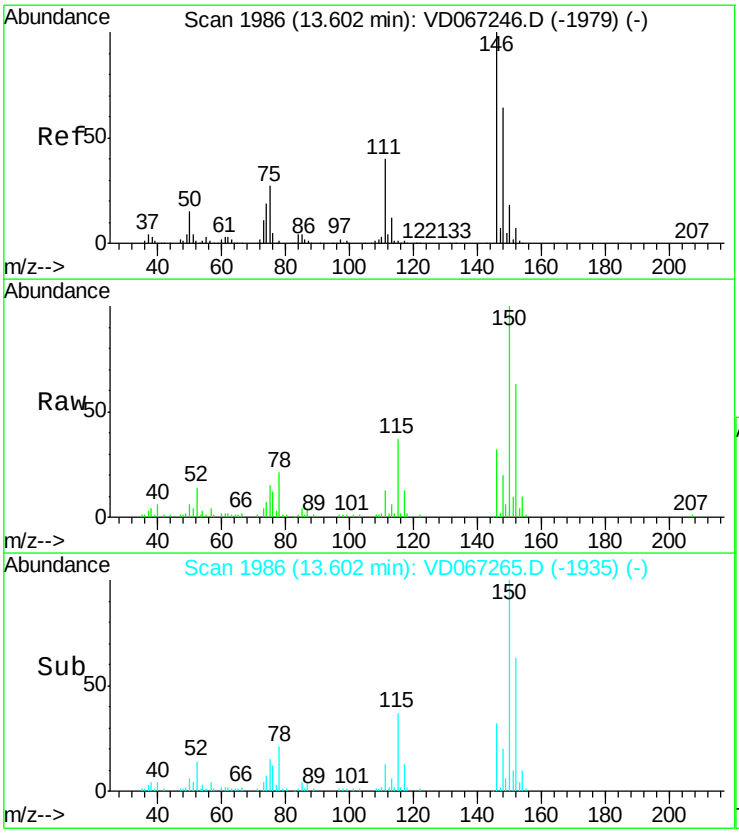
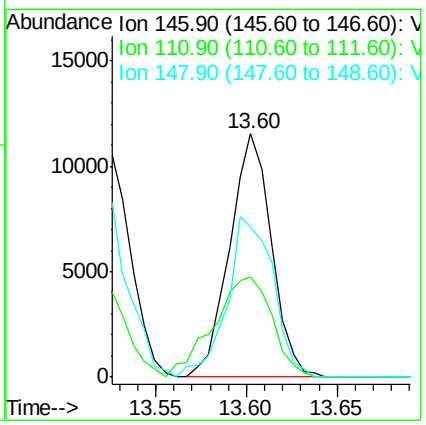
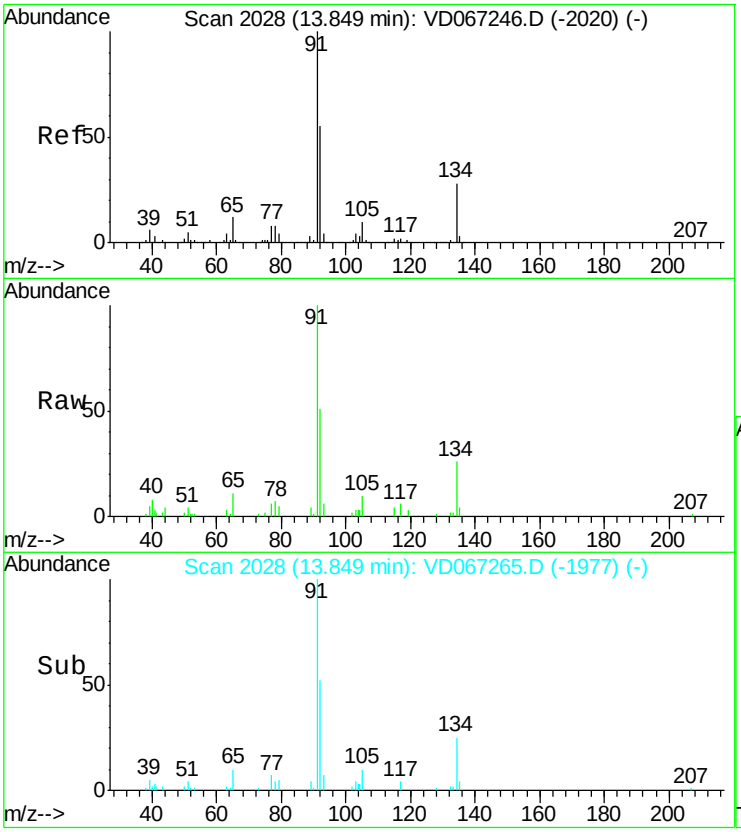



#88
1,4-Dichlorobenzene
Concen: 3.126 ug/l
RT: 13.60 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:146 Resp: 18466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 57.5 | 19.9 | 59.7 |
| 148 | 72.3 | 31.9 | 95.9 |






#89
n-Butylbenzene
Concen: 2.507 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 91 Resp: 26050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.7 | 80.0 |
| 134 | 25.5 | 14.2 | 42.6 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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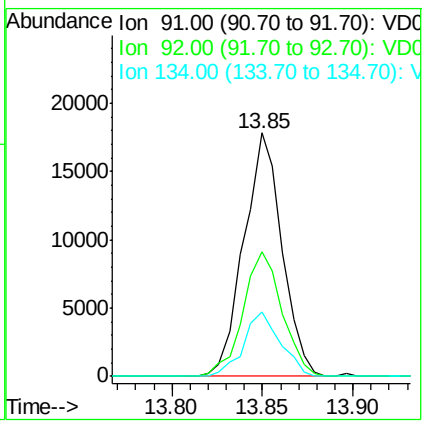
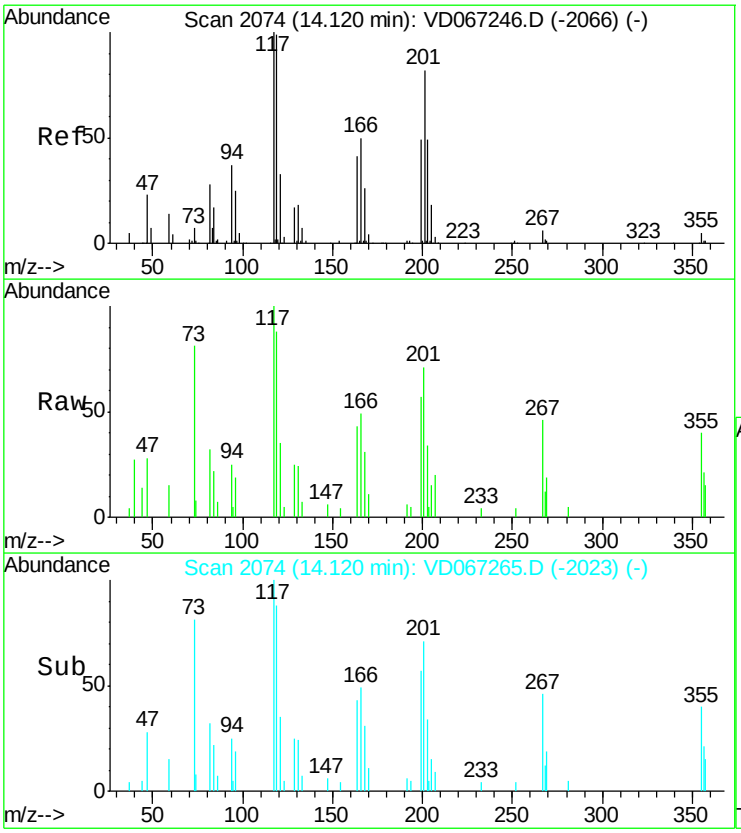
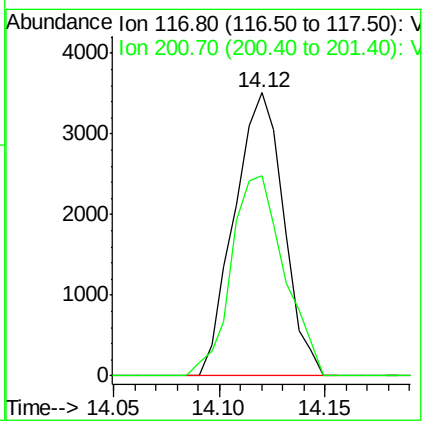


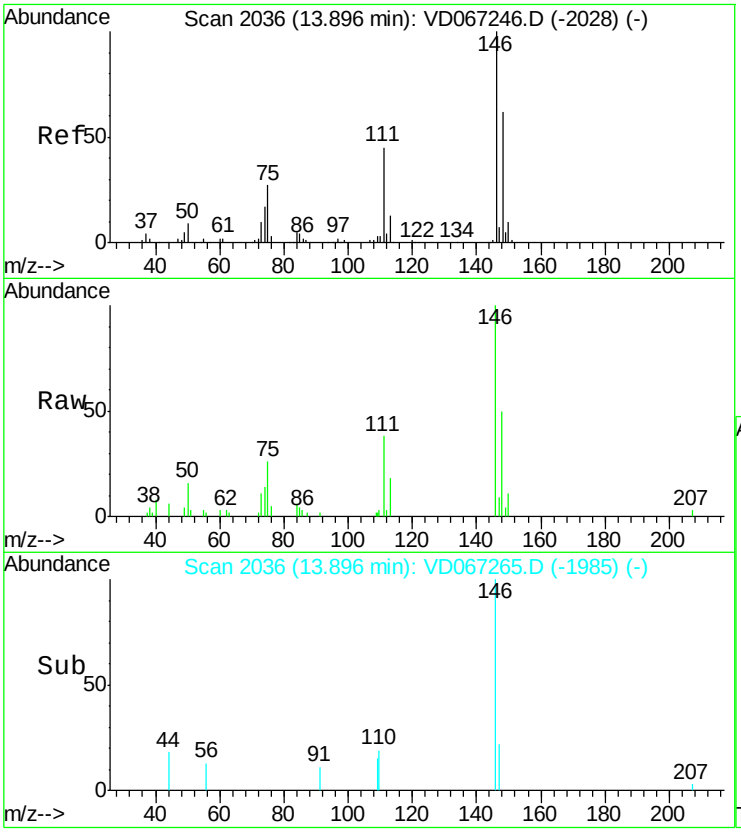




#90
Hexachloroethane
Concen: 2.761 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:117 Resp: 5690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.9 | 40.8 | 122.2 |

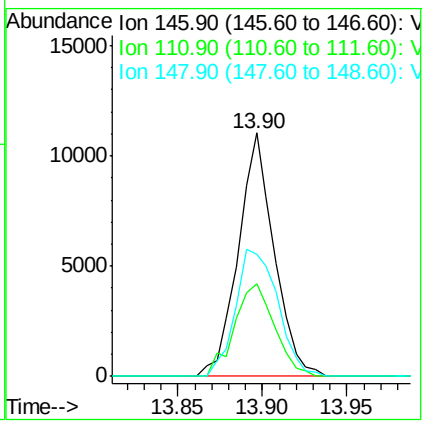





#91
1,2-Dichlorobenzene
Concen: 3.131 ug/l
RT: 13.90 min Scan# 2036
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:146 Resp: 16304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 22.0 | 66.0 |
| 148 | 61.5 | 32.5 | 97.5 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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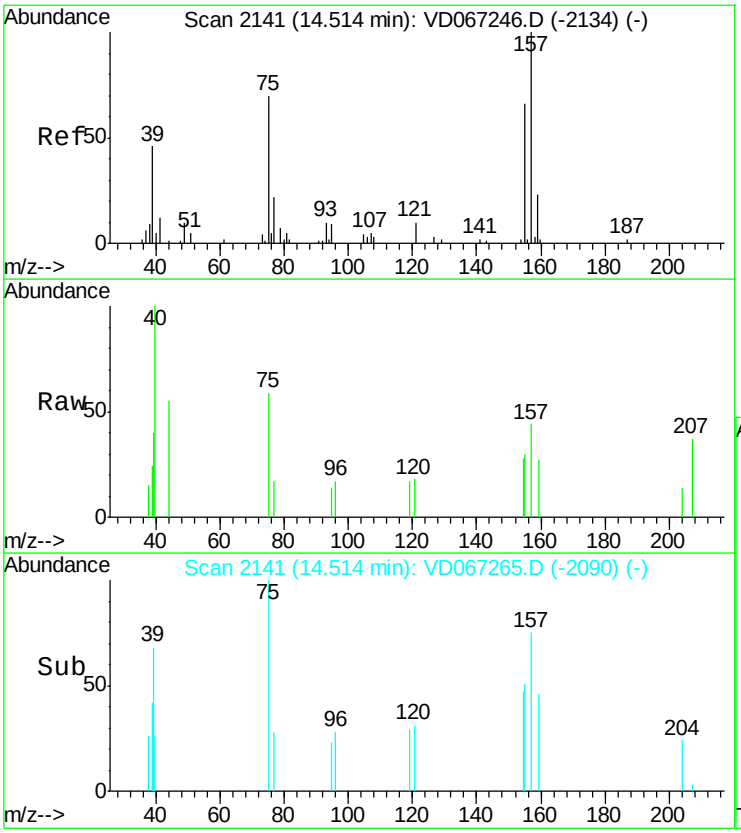
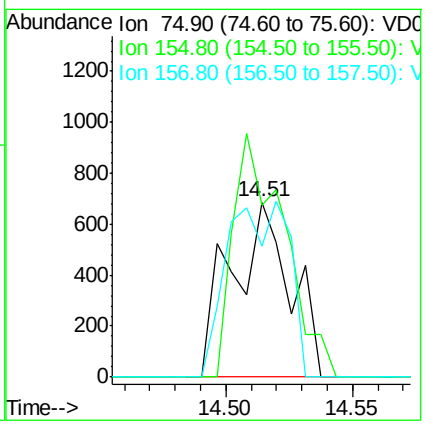
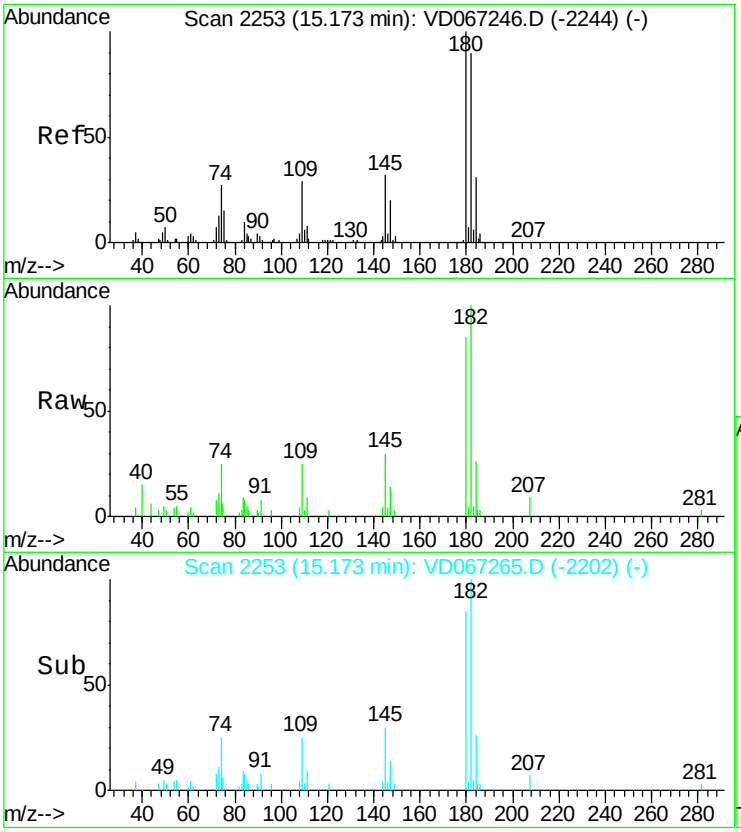



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.227 ug/l
RT: 14.51 min Scan# 2141
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion: 75 Resp: 1116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 119.4 | 44.8 | 134.4 |
| 157 | 104.5 | 62.5 | 187.4 |

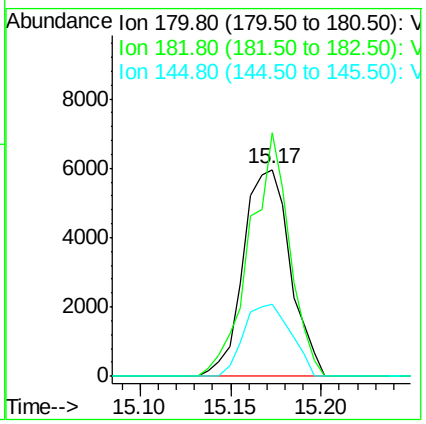





#93
1,2,4-Trichlorobenzene
Concen: 3.065 ug/l
RT: 15.17 min Scan# 2253
Delta R.T. 0.00 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:180 Resp: 10763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 99.7 | 48.1 | 144.4 |
| 145 | 34.8 | 16.3 | 48.9 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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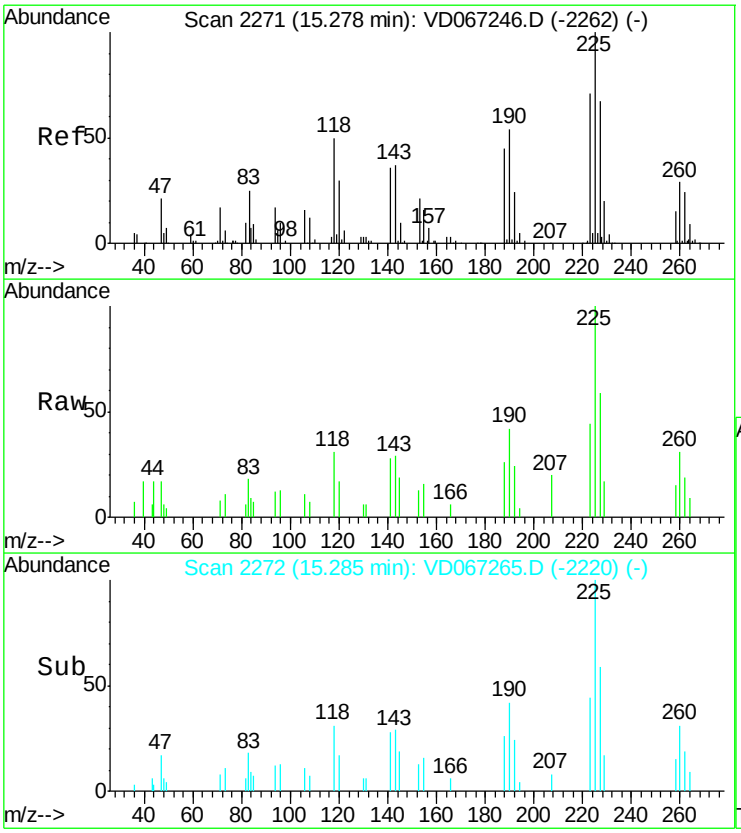
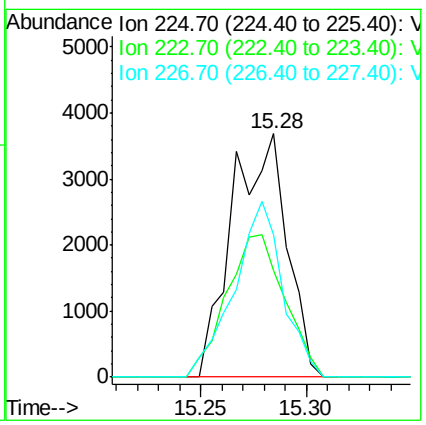
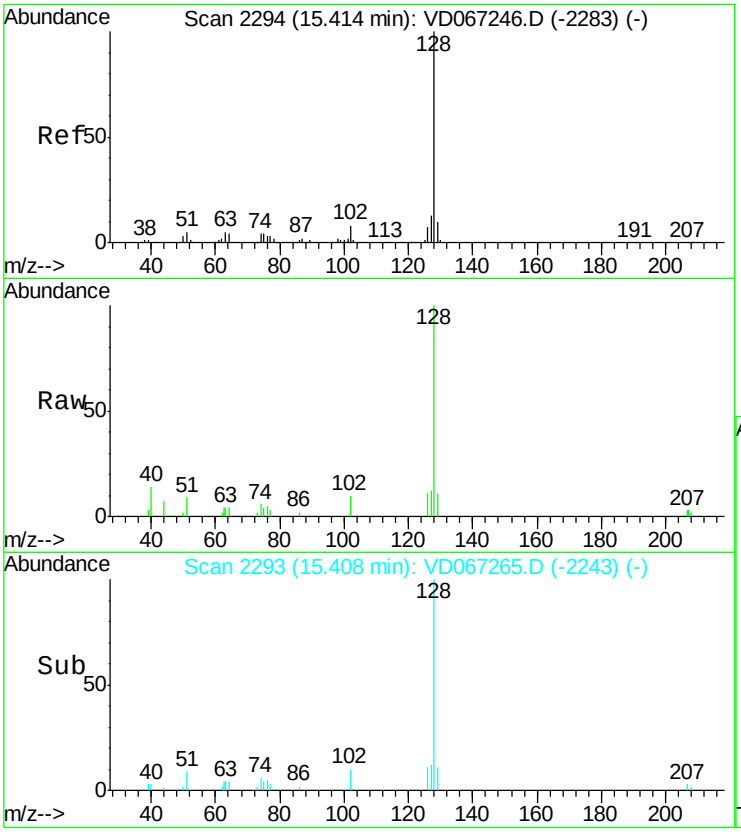



#94
Hexachlorobutadiene
Concen: 3.041 ug/l
RT: 15.28 min Scan# 2272
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:225 Resp: 6631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.1 | 31.9 | 95.7 |
| 227 | 64.0 | 31.2 | 93.6 |

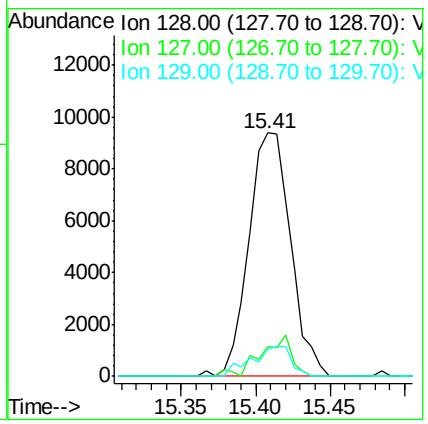





#95
Naphthalene
Concen: 3.151 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:128 Resp: 18163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.4 | 15.6 |
| 129 | 11.6 | 8.6 | 12.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT4-2020

**Manual Integrations APPROVED**
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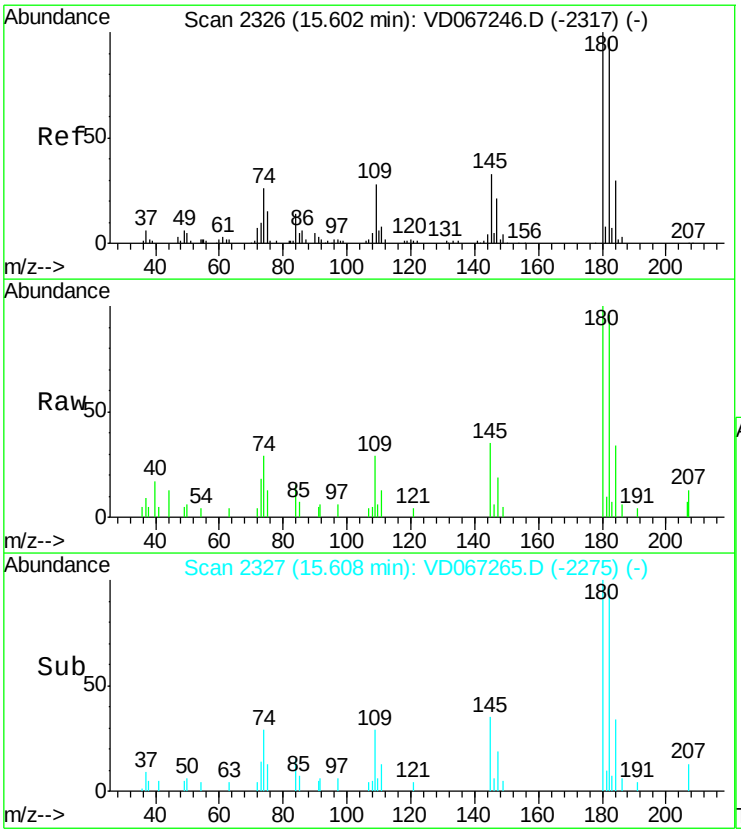
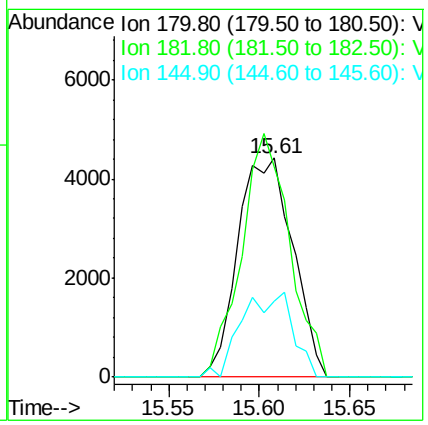



#96
1,2,3-Trichlorobenzene
Concen: 3.074 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.01 min
Lab File: VD067265.D
Acq: 14 Oct 2020 12:32

Tgt Ion:180 Resp: 9324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.8 | 48.1 | 144.3 |
| 145 | 35.8 | 17.3 | 51.9 |