

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
 Data File : VD059793.D  
 Acq On : 15 Aug 2018 6:02  
 Operator : VA/AP  
 Sample : J3762-03  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

Quant Time: Aug 15 17:51:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 16:08:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 282141   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 375773   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 308940   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 167227   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.02   | 65  | 194811   | 53.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.48% |      |
| 35) Dibromofluoromethane  | 5.55   | 113 | 172113   | 52.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.12% |      |
| 50) Toluene-d8            | 8.71   | 98  | 414363   | 53.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.84% |      |
| 62) 4-Bromofluorobenzene  | 11.93  | 95  | 173577   | 49.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.92%  |      |

## Target Compounds

|                               |      |     |       |       |        | Qvalue |
|-------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.35 | 85  | 7535  | 2.19  | ug/l   | 96     |
| 3) Chloromethane              | 1.49 | 50  | 4267  | 2.26  | ug/l # | 78     |
| 4) Vinyl Chloride             | 1.57 | 62  | 4089  | 2.05  | ug/l   | 91     |
| 5) Bromomethane               | 1.81 | 94  | 2402  | 3.77  | ug/l # | 74     |
| 6) Chloroethane               | 1.89 | 64  | 1927  | 2.31  | ug/l # | 43     |
| 7) Trichlorofluoromethane     | 2.10 | 101 | 7081  | 2.26  | ug/l # | 79     |
| 8) Diethyl Ether              | 2.36 | 74  | 1082  | 1.79  | ug/l   | 63     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.57 | 101 | 3878  | 2.20  | ug/l   | 93     |
| 10) Methyl Iodide             | 2.71 | 142 | 2899  | 4.43  | ug/l # | 77     |
| 11) Tert butyl alcohol        | 3.27 | 59  | 930   | 7.25  | ug/l # | 74     |
| 12) 1,1-Dichloroethene        | 2.56 | 96  | 2837  | 2.23  | ug/l   | 90     |
| 13) Acrolein                  | 2.47 | 56  | 283   | 21.32 | ug/l # | 11     |
| 14) Allyl chloride            | 2.93 | 41  | 6775  | 2.12  | ug/l # | 88     |
| 15) Acrylonitrile             | 3.36 | 53  | 5017  | 11.17 | ug/l # | 80     |
| 16) Acetone                   | 2.62 | 43  | 7145  | 12.49 | ug/l # | 88     |
| 17) Carbon Disulfide          | 2.77 | 76  | 8856  | 2.08  | ug/l   | 97     |
| 18) Methyl Acetate            | 2.94 | 43  | 3663  | 3.00  | ug/l # | 63     |
| 19) Methyl tert-butyl Ether   | 3.40 | 73  | 13458 | 2.17  | ug/l   | 92     |
| 20) Methylene Chloride        | 3.08 | 84  | 11088 | 4.33  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 3.40 | 96  | 5737  | 2.29  | ug/l   | 83     |
| 22) Diisopropyl ether         | 4.08 | 45  | 19521 | 2.26  | ug/l # | 92     |
| 23) Vinyl Acetate             | 4.01 | 43  | 50265 | 10.29 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.98 | 63  | 11982 | 2.34  | ug/l # | 88     |
| 25) 2-Butanone                | 4.84 | 43  | 9966  | 11.38 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 4.81 | 77  | 10147 | 2.17  | ug/l   | 90     |
| 27) cis-1,2-Dichloroethene    | 4.80 | 96  | 5522  | 2.01  | ug/l   | 87     |
| 28) Bromochloromethane        | 5.16 | 49  | 4524  | 2.25  | ug/l # | 80     |
| 29) Tetrahydrofuran           | 5.20 | 42  | 3984  | 10.66 | ug/l   | 93     |
| 30) Chloroform                | 5.33 | 83  | 13318 | 2.17  | ug/l   | 96     |
| 31) Cyclohexane               | 5.62 | 56  | 15295 | 4.15  | ug/l # | 56     |
| 32) 1,1,1-Trichloroethane     | 5.52 | 97  | 11206 | 2.07  | ug/l   | 87     |
| 36) 1,1-Dichloropropene       | 5.75 | 75  | 10310 | 2.67  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.93 | 43  | 4313  | 2.24  | ug/l # | 72     |
| 38) Carbon Tetrachloride      | 5.73 | 117 | 9980  | 2.15  | ug/l # | 93     |

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 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 MDL-SOIL-03-QT3-2018

Quant Time: Aug 15 17:51:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 16:08:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.28  | 83   | 7419     | 2.22   | ug/l # | 90       |
| 40) Benzene                    | 6.02  | 78   | 19193    | 2.35   | ug/l   | 96       |
| 41) Methacrylonitrile          | 5.13  | 41   | 1663     | 1.80   | ug/l # | 61       |
| 42) 1,2-Dichloroethane         | 6.13  | 62   | 10393    | 2.35   | ug/l   | 82       |
| 43) Isopropyl Acetate          | 7.62  | 43   | 5220     | 2.14   | ug/l # | 86       |
| 44) Trichloroethene            | 6.99  | 130  | 6181     | 2.21   | ug/l   | 91       |
| 45) 1,2-Dichloropropane        | 7.36  | 63   | 4556     | 2.14   | ug/l # | 85       |
| 46) Dibromomethane             | 7.47  | 93   | 3292     | 1.89   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.74  | 83   | 8484     | 1.99   | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.50  | 41   | 2811     | 1.77   | ug/l # | 83       |
| 49) 1,4-Dioxane                | 7.50  | 88   | 178      | 12.72  | ug/l # | 21       |
| 51) 4-Methyl-2-Pentanone       | 8.60  | 43   | 19380    | 10.53  | ug/l   | 89       |
| 52) Toluene                    | 8.81  | 92   | 13258    | 2.53   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.19  | 75   | 6987     | 1.98   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.36  | 75   | 7565     | 1.98   | ug/l   | 85       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 4926     | 2.55   | ug/l   | 90       |
| 56) Ethyl methacrylate         | 9.31  | 69   | 4176     | 1.99   | ug/l # | 82       |
| 57) 1,3-Dichloropropane        | 9.67  | 76   | 7247     | 2.39   | ug/l # | 73       |
| 58) 2-Chloroethyl Vinyl ether  | 8.20  | 63   | 11403    | 11.02  | ug/l   | 93       |
| 59) 2-Hexanone                 | 9.79  | 43   | 12123    | 9.19   | ug/l   | 91       |
| 60) Dibromochloromethane       | 9.96  | 129  | 5145     | 1.83   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 4567     | 2.13   | ug/l   | 87       |
| 64) Tetrachloroethene          | 9.51  | 164  | 5985     | 2.25   | ug/l # | 90       |
| 65) Chlorobenzene              | 10.72 | 112  | 15120    | 2.42   | ug/l   | 91       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.85 | 131  | 5776     | 2.29   | ug/l   | 95       |
| 67) Ethyl Benzene              | 10.86 | 91   | 27427    | 2.55   | ug/l # | 88       |
| 68) m/p-Xylenes                | 11.01 | 106  | 17987    | 4.93   | ug/l   | 96       |
| 69) o-Xylene                   | 11.40 | 106  | 7933     | 2.26   | ug/l   | 90       |
| 70) Styrene                    | 11.43 | 104  | 14413    | 2.32   | ug/l   | 96       |
| 71) Bromoform                  | 11.60 | 173  | 2754     | 1.50   | ug/l # | 89       |
| 73) Isopropylbenzene           | 11.78 | 105  | 25384    | 2.40   | ug/l   | 98       |
| 74) N-amyl acetate             | 11.65 | 43   | 5888     | 1.81   | ug/l # | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.07 | 83   | 5079     | 2.36   | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 5836     | 2.46   | ug/l   | 90       |
| 77) Bromobenzene               | 12.04 | 156  | 7307     | 2.41   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.15 | 91   | 30472    | 2.31   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.22 | 91   | 19882    | 2.50   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.32 | 105  | 21229    | 2.50   | ug/l   | 89       |
| 81) trans-1,4-Dichloro-2-buten | 11.92 | 75   | 87456    | 157.55 | ug/l # | 1        |
| 82) 4-Chlorotoluene            | 12.33 | 91   | 22179    | 2.45   | ug/l   | 94       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 21172    | 2.26   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 21266    | 2.33   | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 26108    | 2.40   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.89 | 119  | 21638    | 2.38   | ug/l   | 91       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 13177    | 2.43   | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene        | 12.93 | 146  | 13900    | 2.58   | ug/l   | 93       |
| 89) n-Butylbenzene             | 13.19 | 91   | 23834    | 2.59   | ug/l   | 96       |
| 90) Hexachloroethane           | 13.40 | 117  | 4673     | 2.05   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 12395    | 2.78   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 696      | 1.81   | ug/l   | 88       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
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Sample : J3762-03  
Misc : 5.00µl/5ml/MSVOA D/SOIL  
ALS Vial : 37 Sample Multiplier: 1

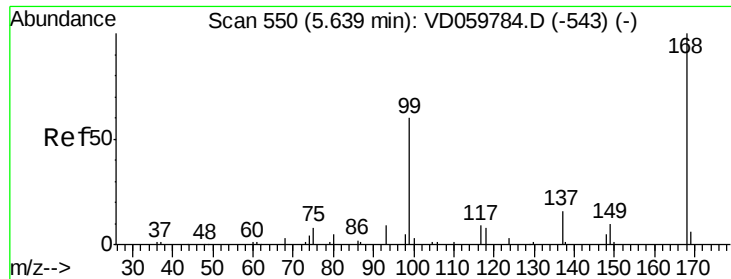
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Quant Time: Aug 15 17:51:41 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 15 16:08:23 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.33 | 180  | 8602     | 2.31 | ug/l  | 90       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 6148     | 2.23 | ug/l  | 91       |
| 95) Naphthalene            | 14.51 | 128  | 13482    | 2.36 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 7929     | 2.41 | ug/l  | 91       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

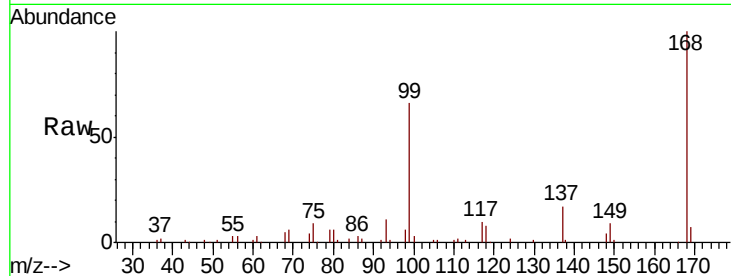
MDL-SOIL-03-QT3-2018

Tot Ion:168 Resp: 282141

Ion Ratio Lower Upper

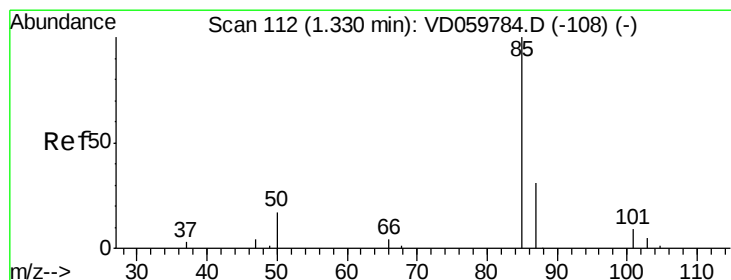
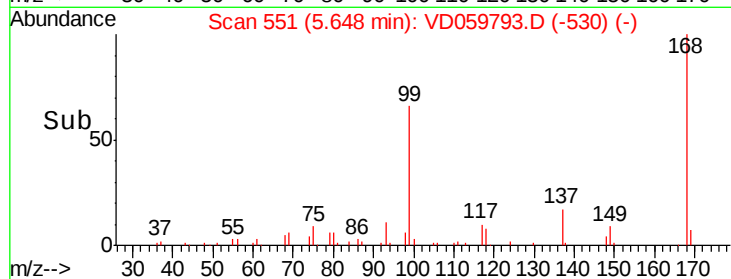
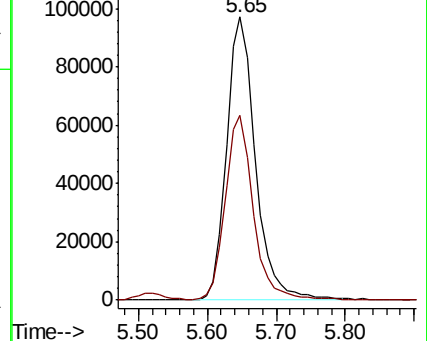
168 100

99 65.5 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 2.19 ug/l

RT: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD059793.D

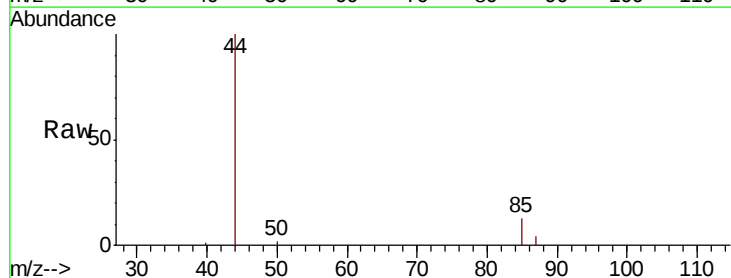
Acq: 15 Aug 2018 6:02

Tgt Ion: 85 Resp: 7535

Ion Ratio Lower Upper

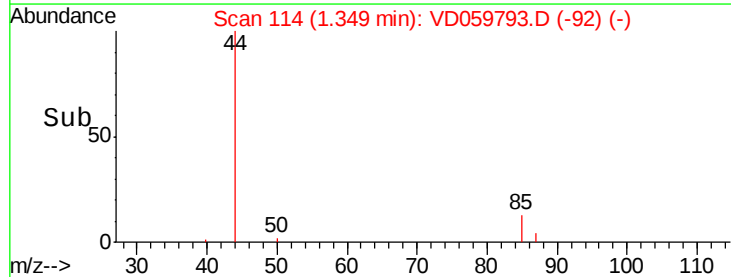
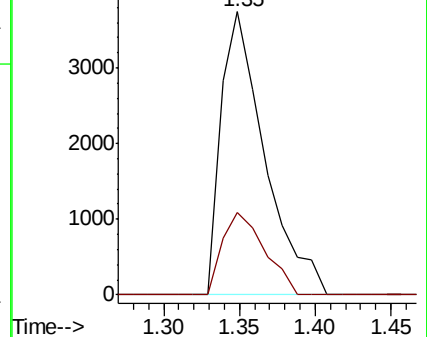
85 100

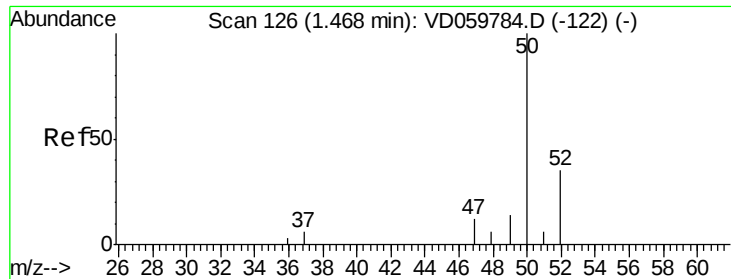
87 29.1 15.7 47.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

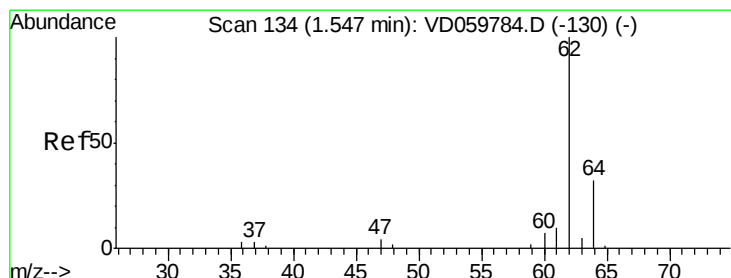
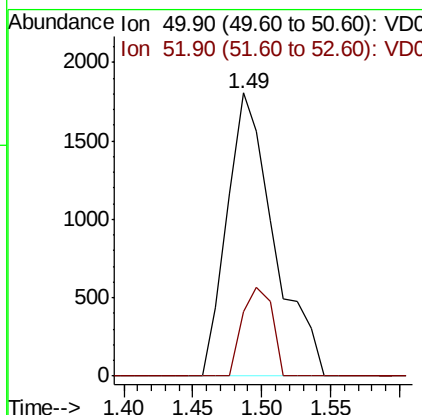
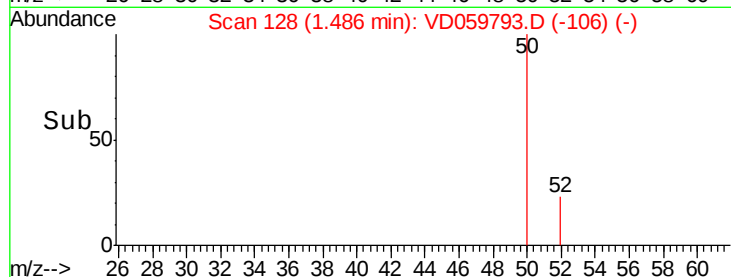
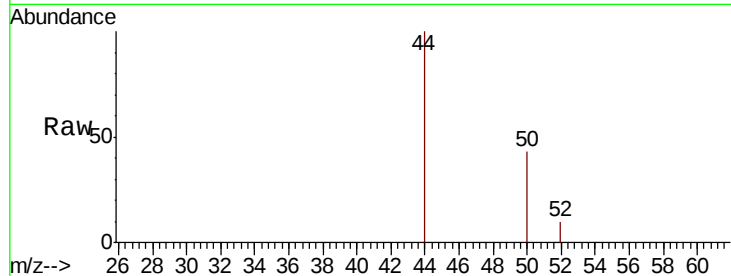




#3  
Chloromethane  
Concen: 2.26 ug/l  
RT: 1.49 min Scan# 128  
Delta R.T. 0.02 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

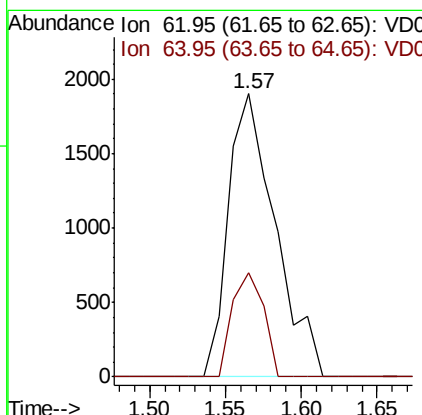
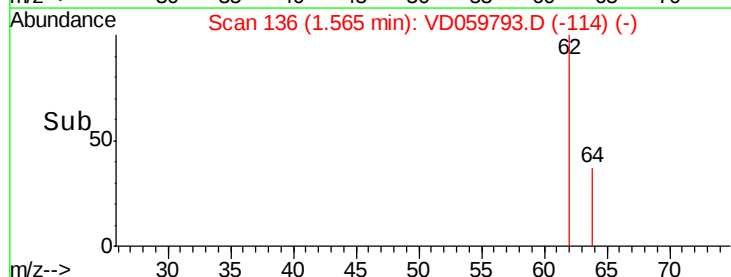
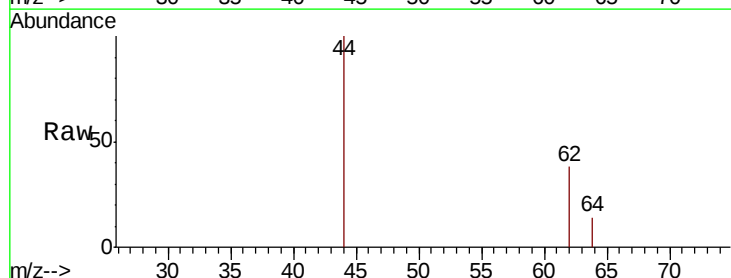
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

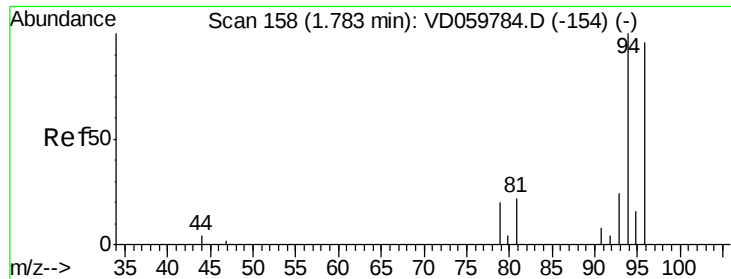
Tot Ion: 50 Resp: 4267  
Ion Ratio Lower Upper  
50 100  
52 22.6 28.4 42.6#



#4  
Vinyl Chloride  
Concen: 2.05 ug/l  
RT: 1.57 min Scan# 136  
Delta R.T. 0.02 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 62 Resp: 4089  
Ion Ratio Lower Upper  
62 100  
64 37.0 25.5 38.3





#5

Bromomethane

Concen: 3.77 ug/l

RT: 1.81 min Scan# 161

Delta R.T. 0.03 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

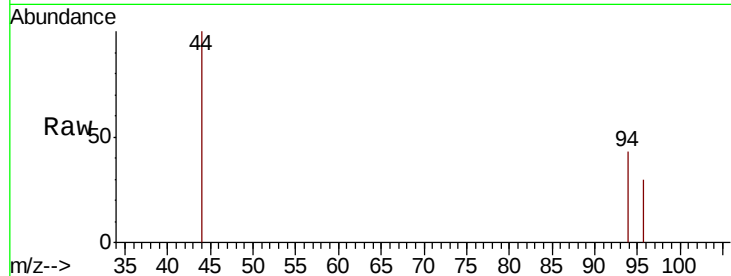
MDL-SOIL-03-QT3-2018

Tot Ion: 94 Resp: 2402

Ion Ratio Lower Upper

94 100

96 70.1 76.7 115.1#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.81

1500

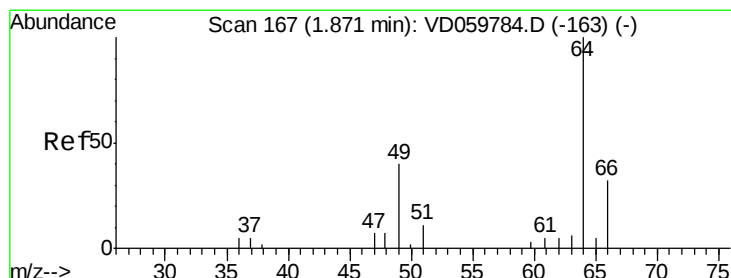
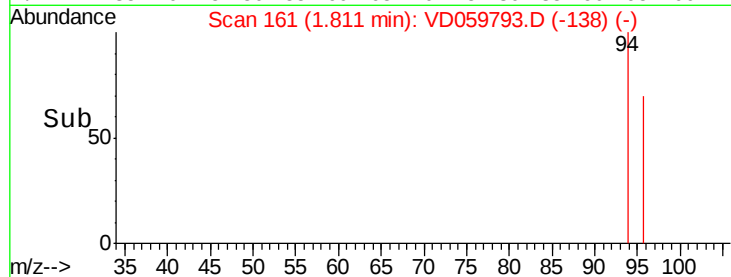
1000

500

0

Time-->

1.75 1.80 1.85



#6

Chloroethane

Concen: 2.31 ug/l

RT: 1.89 min Scan# 169

Delta R.T. 0.02 min

Lab File: VD059793.D

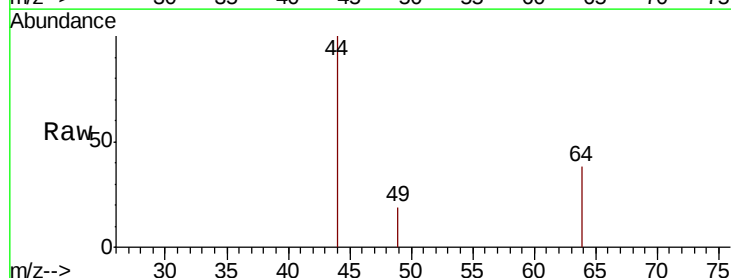
Acq: 15 Aug 2018 6:02

Tgt Ion: 64 Resp: 1927

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.89

1200

1000

800

600

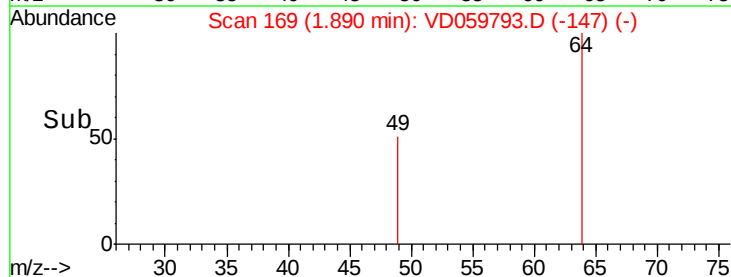
400

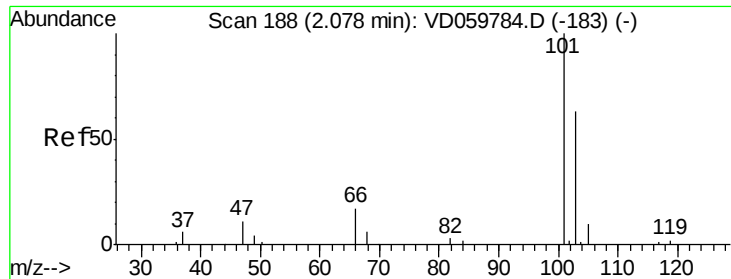
200

0

Time-->

1.85 1.90 1.95





#7

Trichlorofluoromethane

Concen: 2.26 ug/l

RT: 2.10 min Scan# 190

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

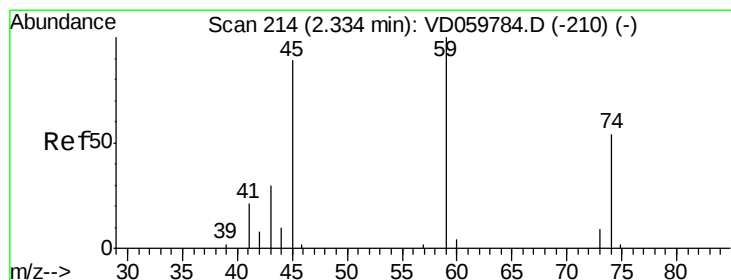
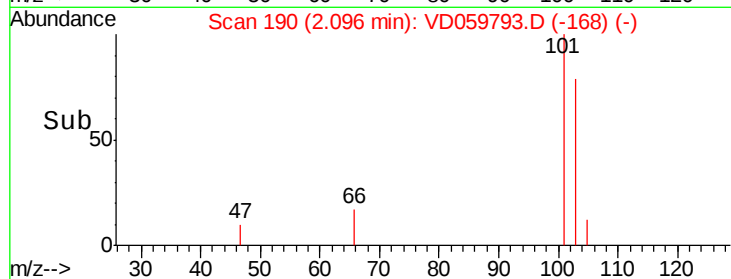
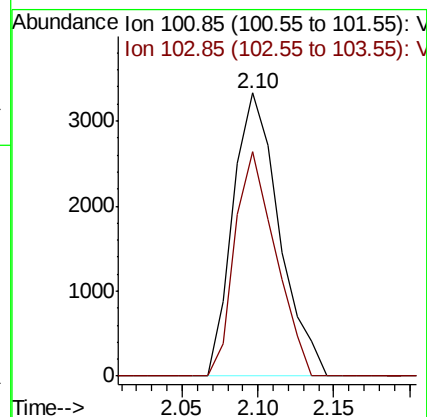
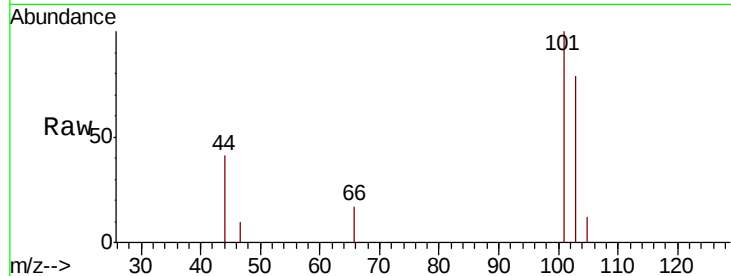
MDL-SOIL-03-QT3-2018

Tot Ion:101 Resp: 7081

Ion Ratio Lower Upper

101 100

103 79.2 50.4 75.6#



#8

Diethyl Ether

Concen: 1.79 ug/l

RT: 2.36 min Scan# 217

Delta R.T. 0.03 min

Lab File: VD059793.D

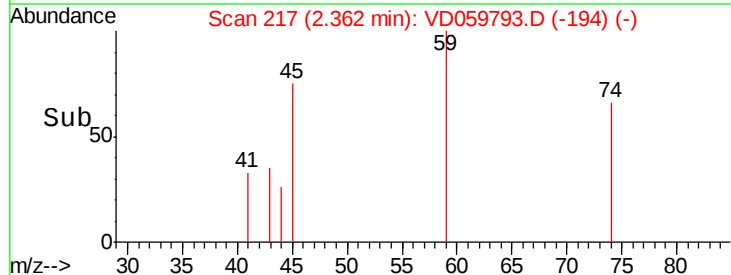
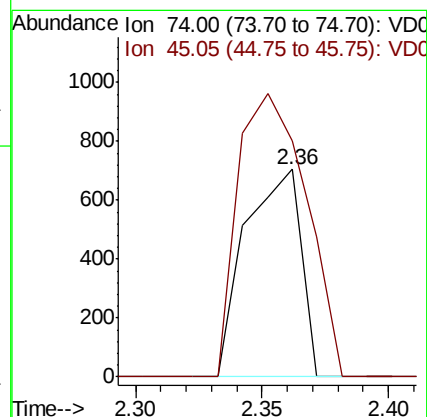
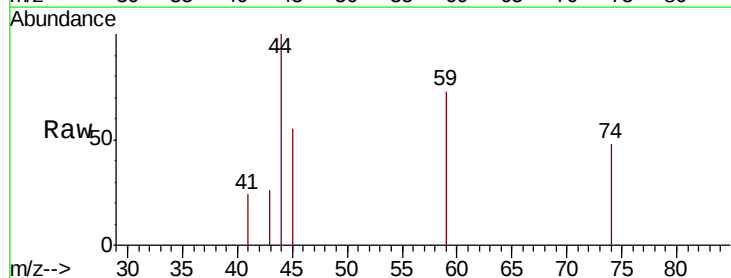
Acq: 15 Aug 2018 6:02

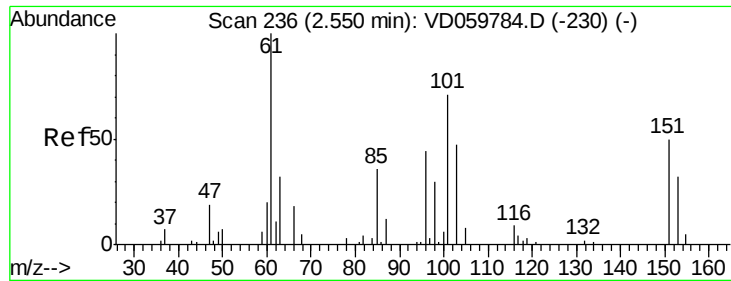
Tgt Ion: 74 Resp: 1082

Ion Ratio Lower Upper

74 100

45 114.0 81.6 244.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.20 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

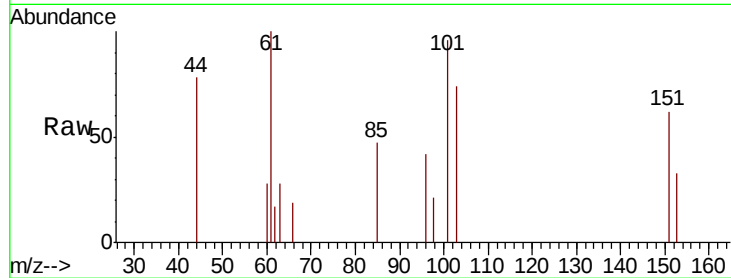
Tot Ion:101 Resp: 3878

Ion Ratio Lower Upper

101 100

85 48.9 40.6 61.0

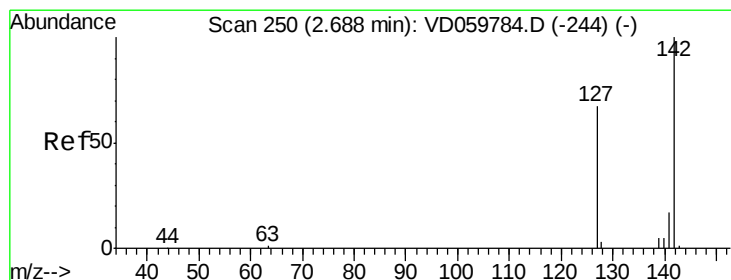
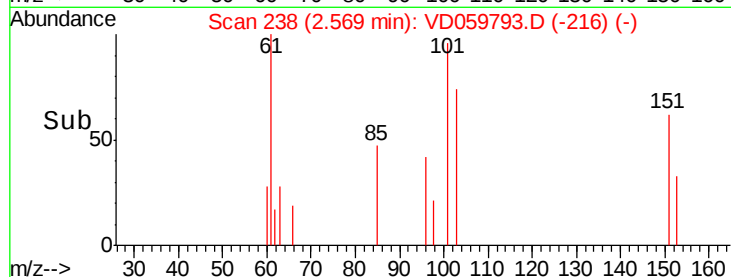
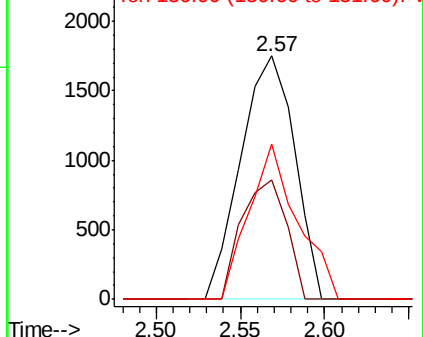
151 63.8 57.1 85.7



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 4.43 ug/l

RT: 2.71 min Scan# 252

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

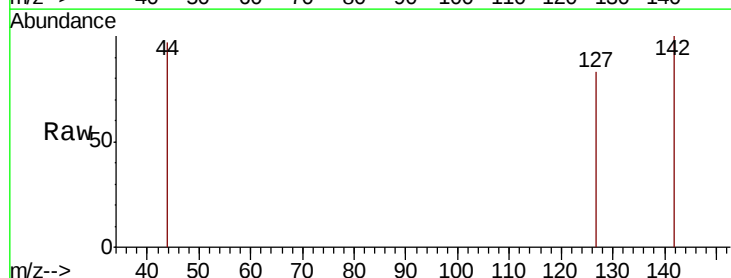
Tgt Ion:142 Resp: 2899

Ion Ratio Lower Upper

142 100

127 83.3 54.0 81.0#

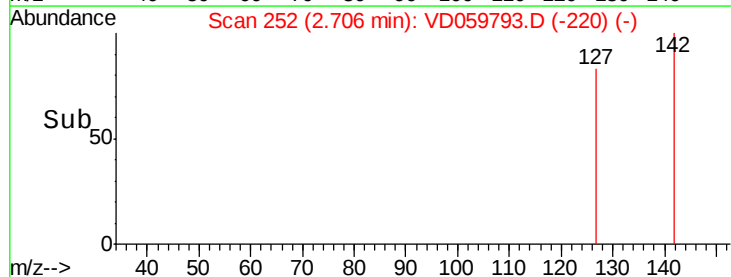
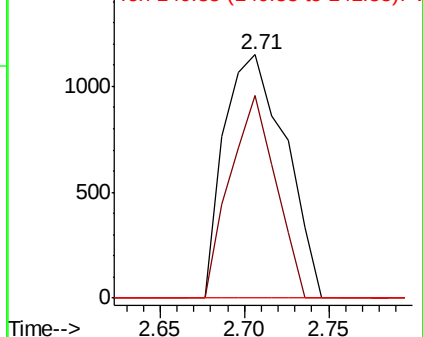
141 0.0 13.3 19.9#

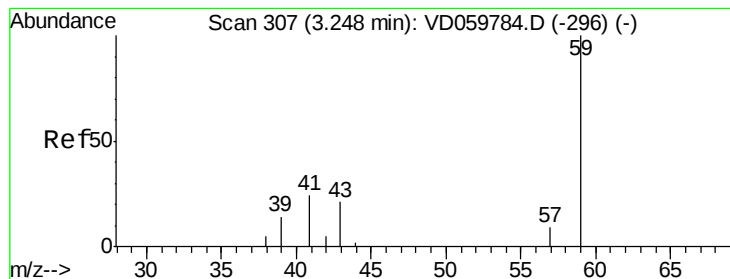


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butvl alcohol

Concen: 7.25 ug/l

RT: 3.27 min Scan# 309

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

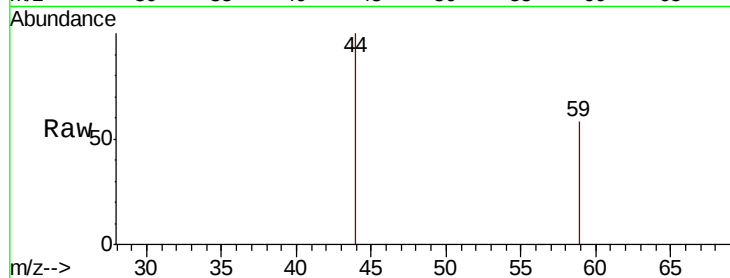
MDL-SOIL-03-QT3-2018

Tot Ion: 59 Resp: 930

Ion Ratio Lower Upper

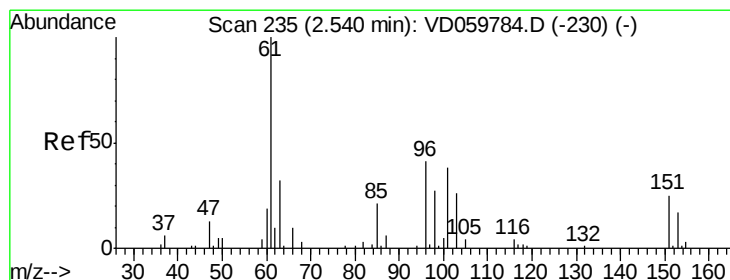
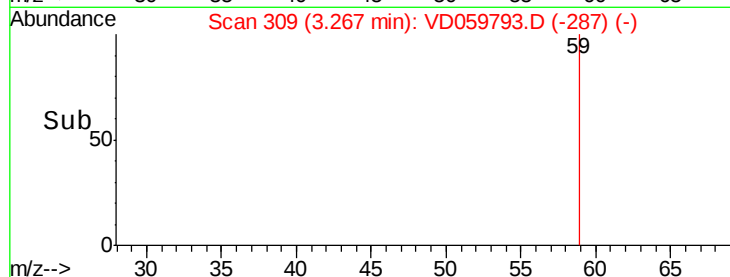
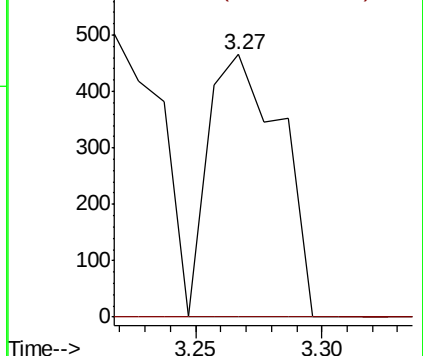
59 100

57 0.0 7.5 11.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#12

1,1-Dichloroethene

Concen: 2.23 ug/l

RT: 2.56 min Scan# 237

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

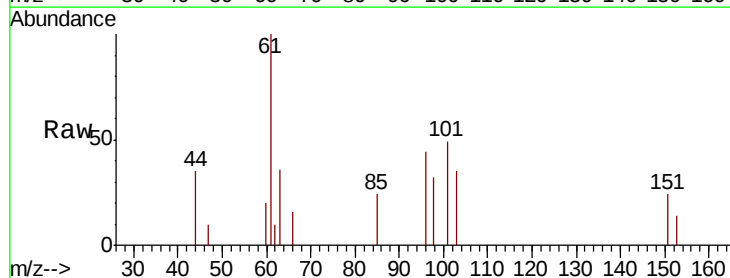
Tgt Ion: 96 Resp: 2837

Ion Ratio Lower Upper

96 100

61 225.3 194.1 291.1

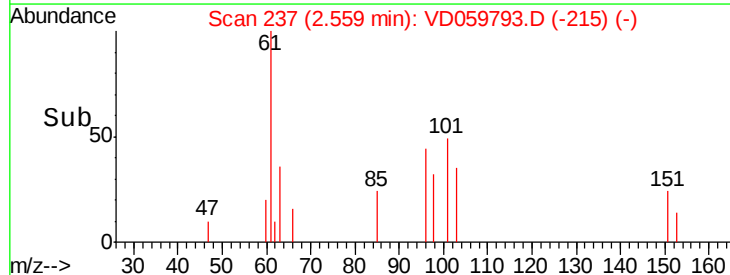
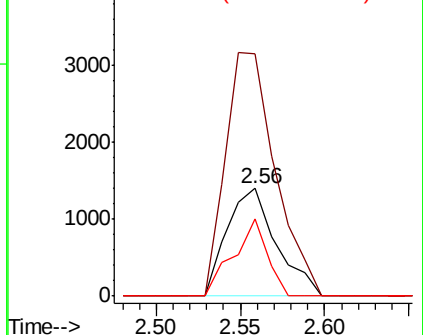
98 71.9 52.3 78.5

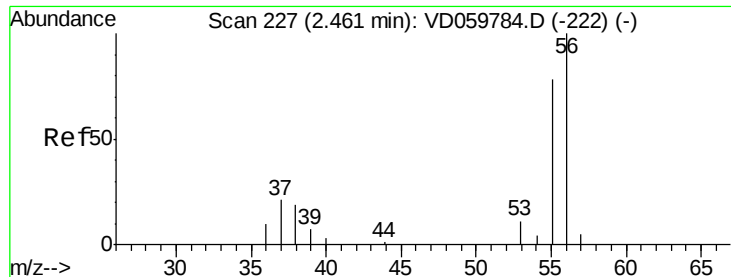


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 21.32 ug/l

RT: 2.47 min Scan# 228

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

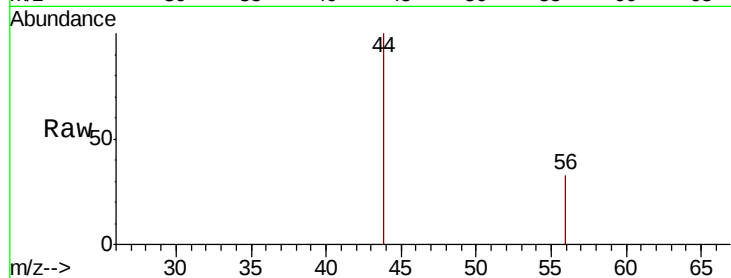
MDL-SOIL-03-QT3-2018

Tot Ion: 56 Resp: 283

Ion Ratio Lower Upper

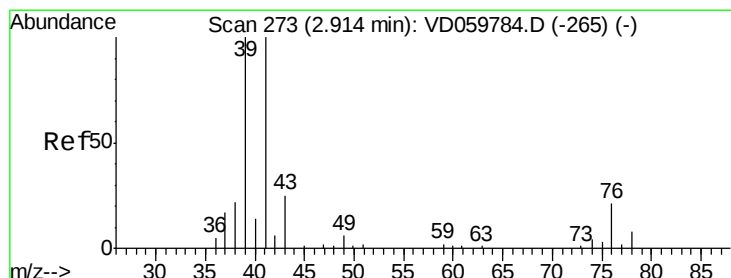
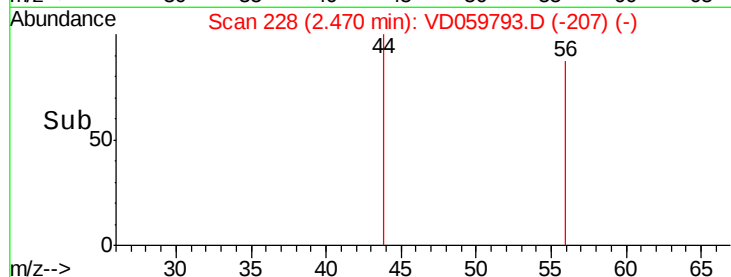
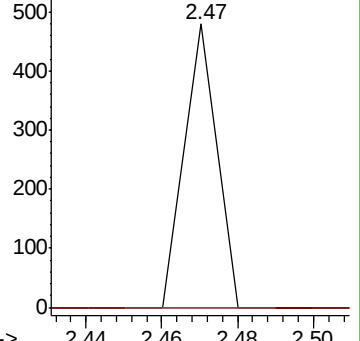
56 100

55 0.0 62.2 93.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.12 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

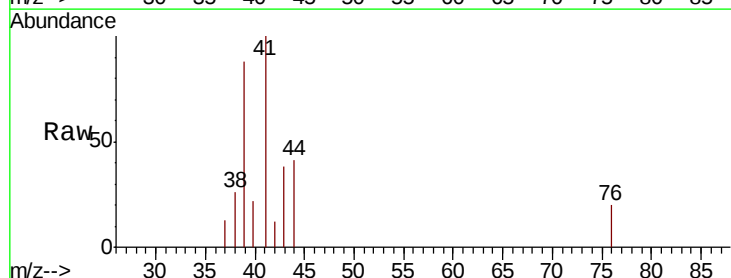
Tgt Ion: 41 Resp: 6775

Ion Ratio Lower Upper

41 100

39 88.0 79.8 119.6

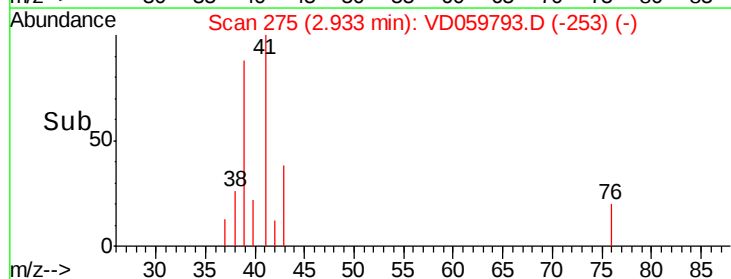
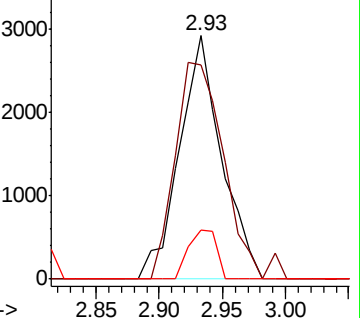
76 19.9 20.4 30.6#

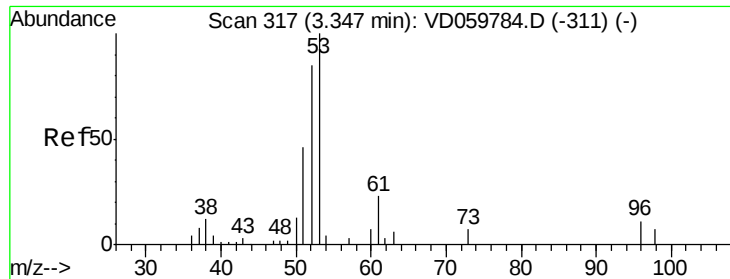


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 11.17 ug/l

RT: 3.36 min Scan# 318

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

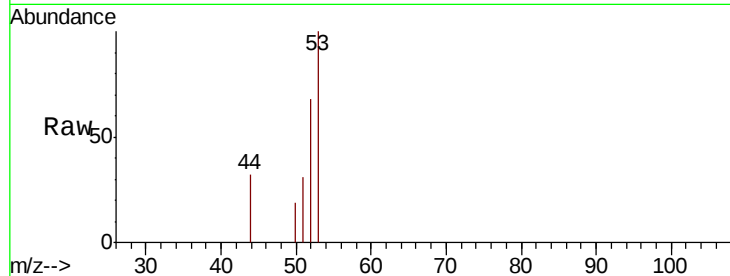
Tot Ion: 53 Resp: 5017

Ion Ratio Lower Upper

53 100

52 67.7 68.2 102.2#

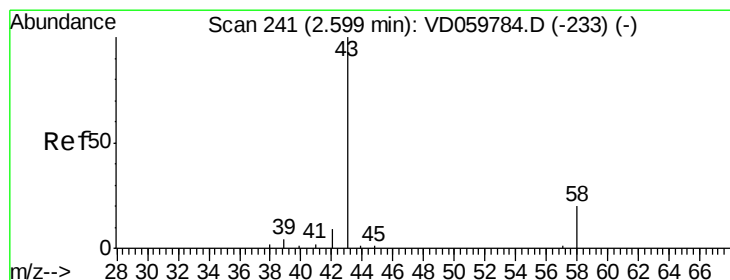
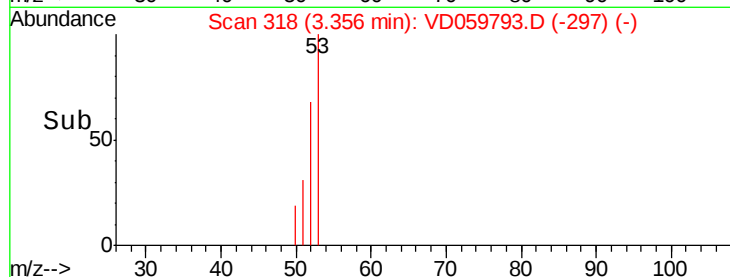
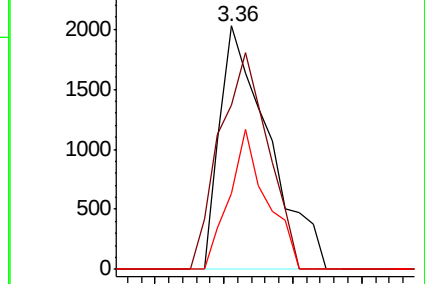
51 31.2 36.6 54.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 12.49 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD059793.D

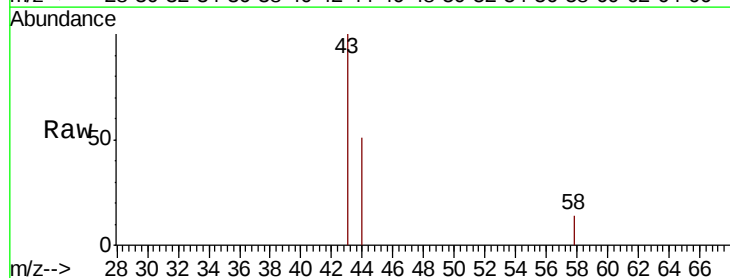
Acq: 15 Aug 2018 6:02

Tgt Ion: 43 Resp: 7145

Ion Ratio Lower Upper

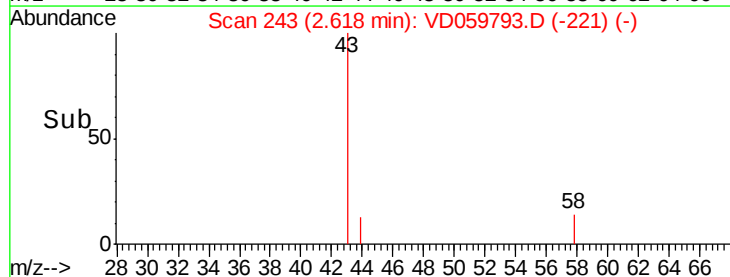
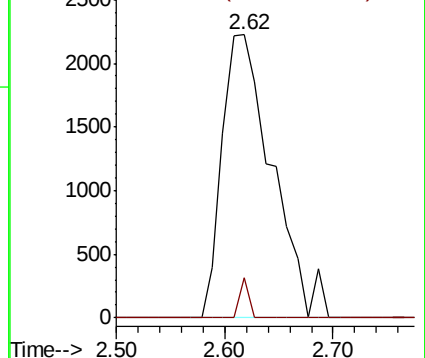
43 100

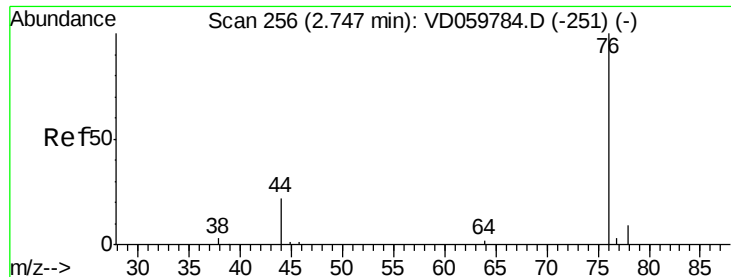
58 14.2 15.7 23.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

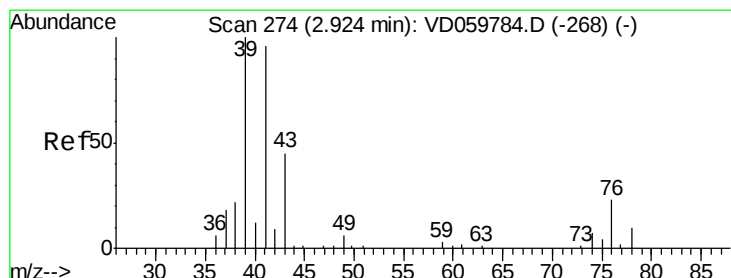
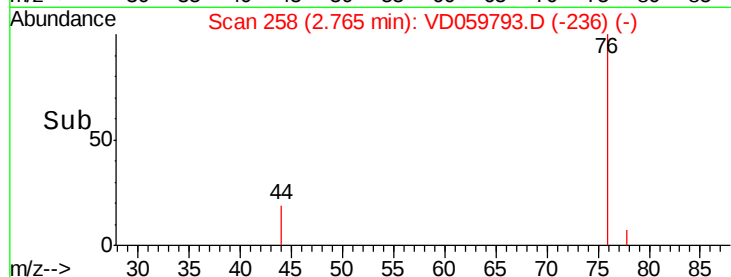
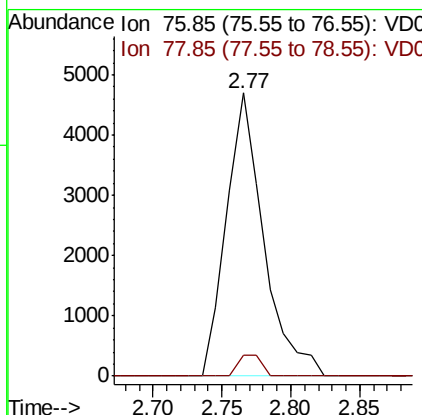
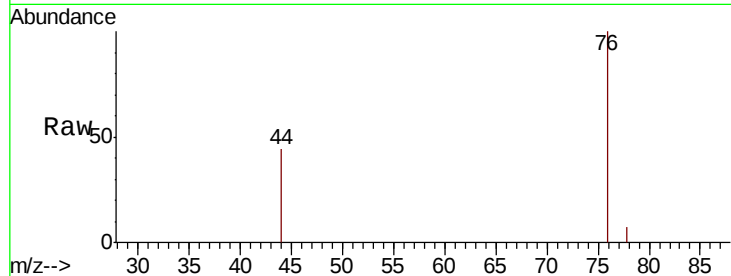




#17  
Carbon Disulfide  
Concen: 2.08 ug/l  
RT: 2.77 min Scan# 258  
Delta R.T. 0.02 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

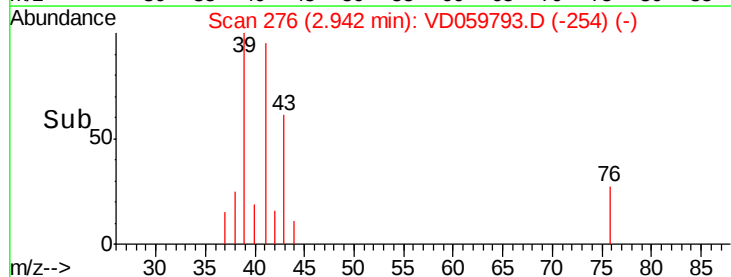
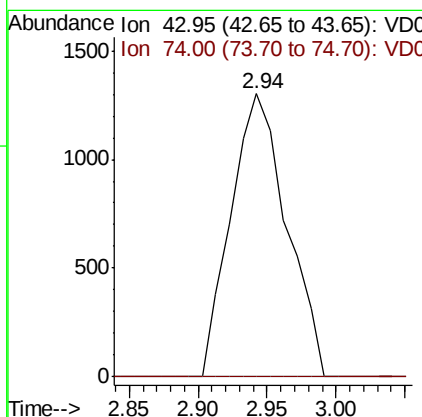
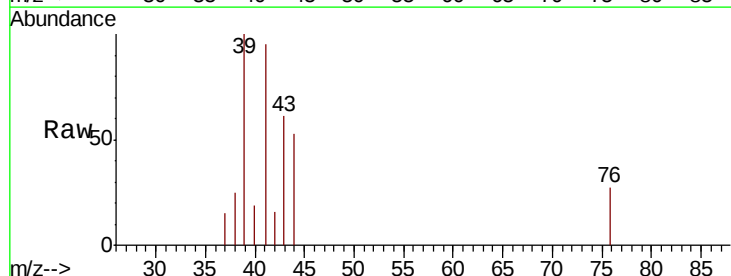
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

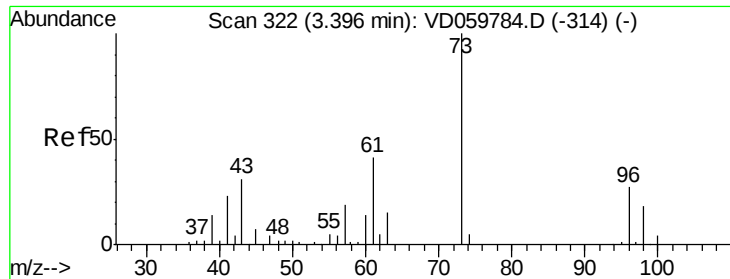
Tot Ion: 76 Resp: 8856  
Ion Ratio Lower Upper  
76 100  
78 7.4 6.9 10.3



#18  
Methyl Acetate  
Concen: 3.00 ug/l  
RT: 2.94 min Scan# 276  
Delta R.T. 0.02 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 43 Resp: 3663  
Ion Ratio Lower Upper  
43 100  
74 0.0 12.4 18.6#

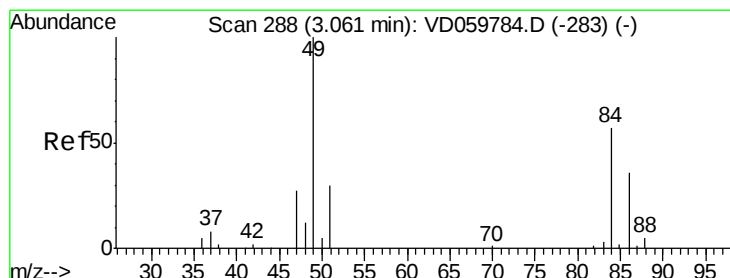
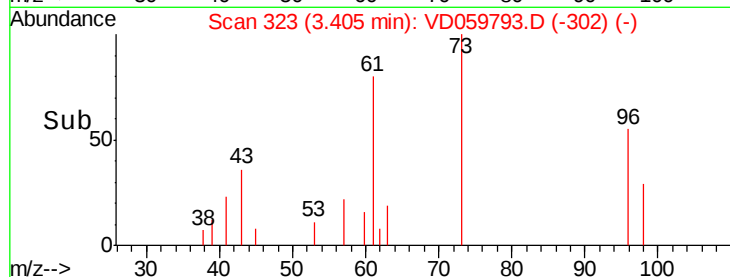
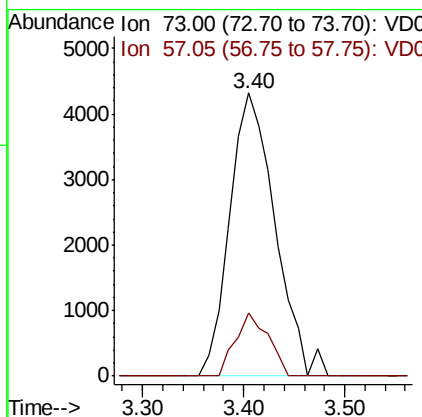
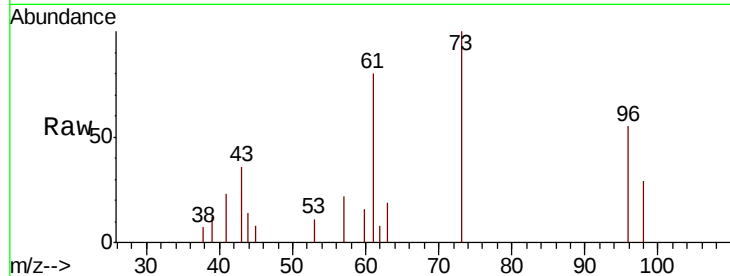




#19  
Methvl tert-butvl Ether  
Concen: 2.17 ug/l  
RT: 3.40 min Scan# 323  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

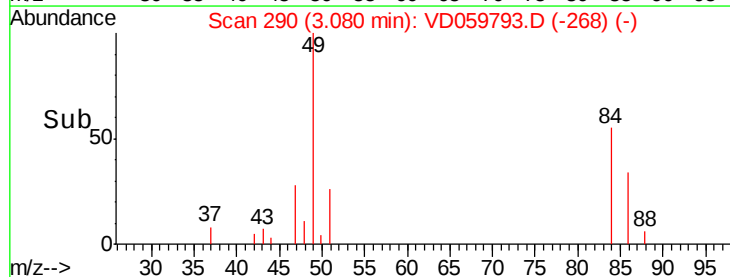
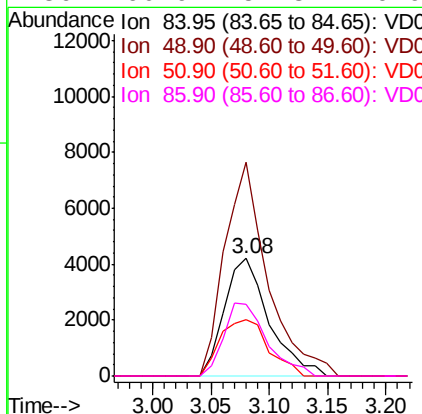
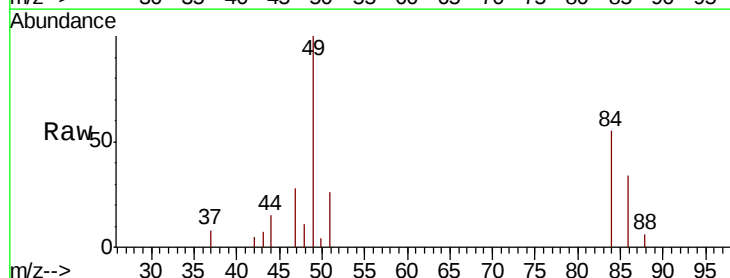
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

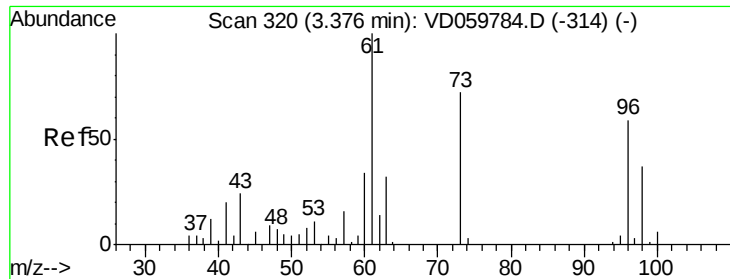
Tot Ion: 73 Resp: 13458  
Ion Ratio Lower Upper  
73 100  
57 22.1 14.8 22.2



#20  
Methylene Chloride  
Concen: 4.33 ug/l  
RT: 3.08 min Scan# 290  
Delta R.T. 0.02 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 84 Resp: 11088  
Ion Ratio Lower Upper  
84 100  
49 181.6 140.9 211.3  
51 48.1 42.8 64.2  
86 60.9 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 2.29 ug/l

RT: 3.40 min Scan# 323

Delta R.T. 0.03 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

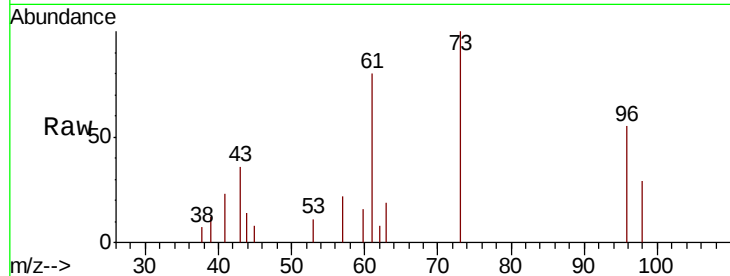
Tot Ion: 96 Resp: 5737

Ion Ratio Lower Upper

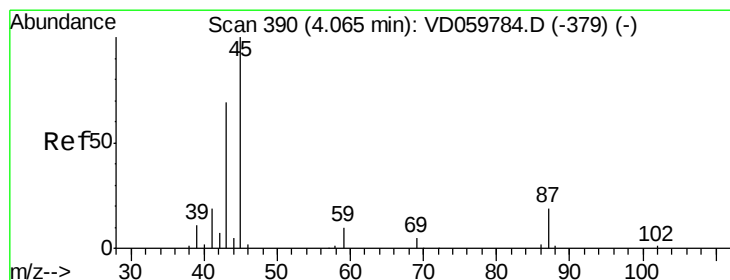
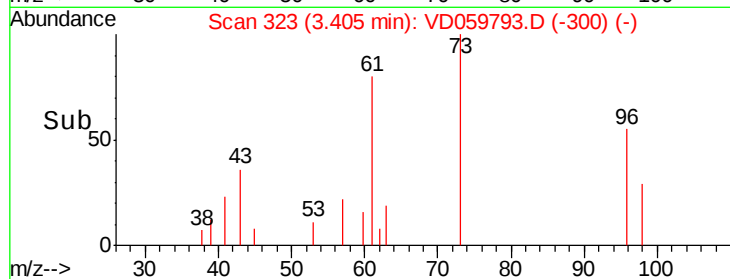
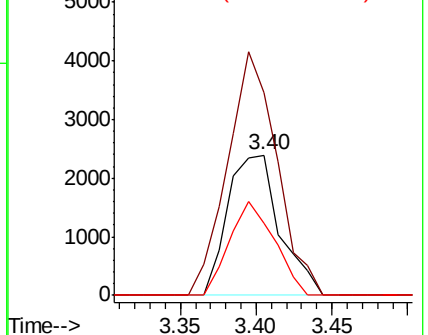
96 100

61 144.0 134.8 202.2

98 51.4 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 2.26 ug/l

RT: 4.08 min Scan# 392

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Tgt Ion: 45 Resp: 19521

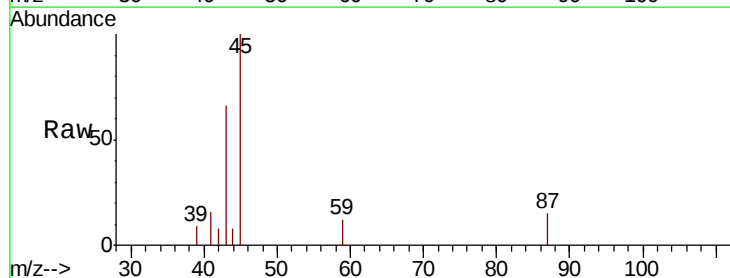
Ion Ratio Lower Upper

45 100

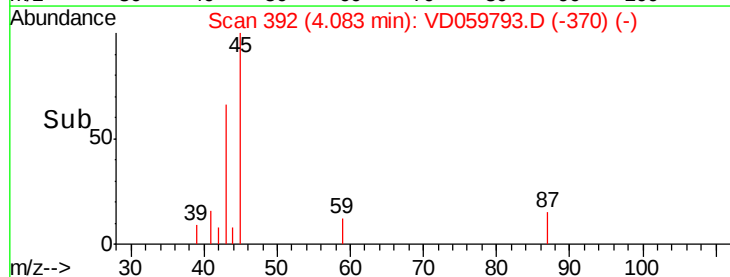
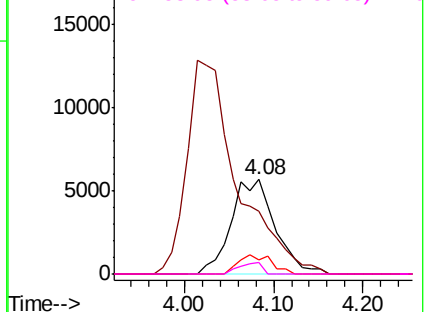
43 65.8 57.5 86.3

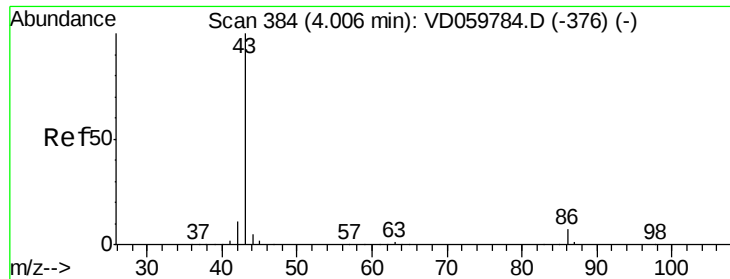
87 14.6 16.1 24.1#

59 12.1 8.4 12.6



Abundance Ion 45.05 (44.75 to 45.75): VDC  
Ion 43.05 (42.75 to 43.75): VDC  
Ion 87.00 (86.70 to 87.70): VDC  
Ion 58.95 (58.65 to 59.65): VDC

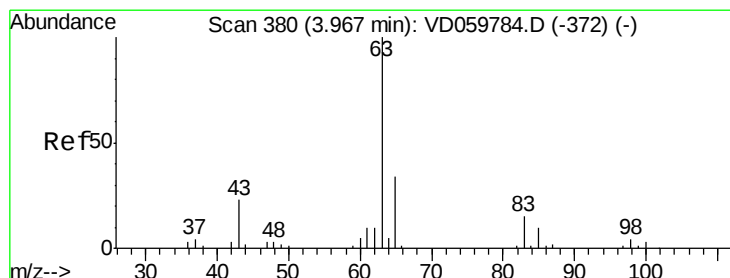
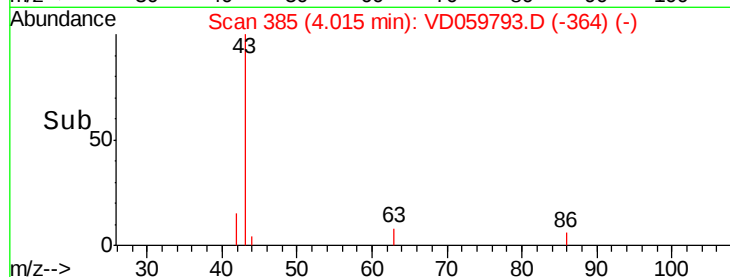
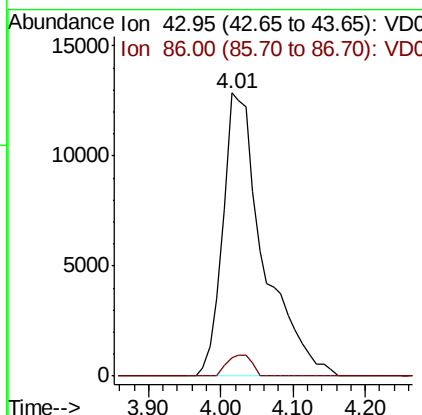
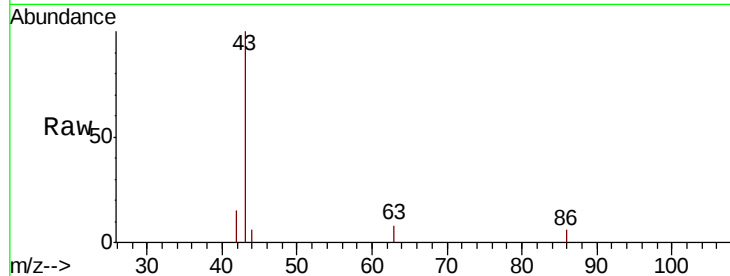




#23  
 Vinyl Acetate  
 Concen: 10.29 ug/l  
 RT: 4.01 min Scan# 385  
 Delta R.T. 0.01 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

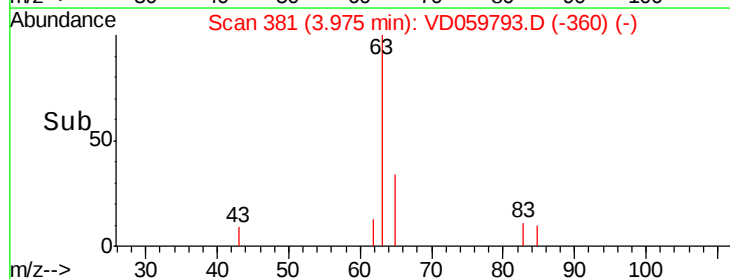
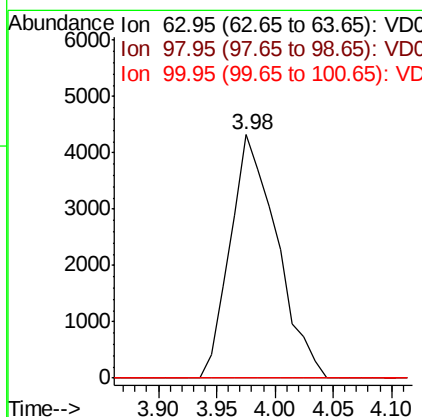
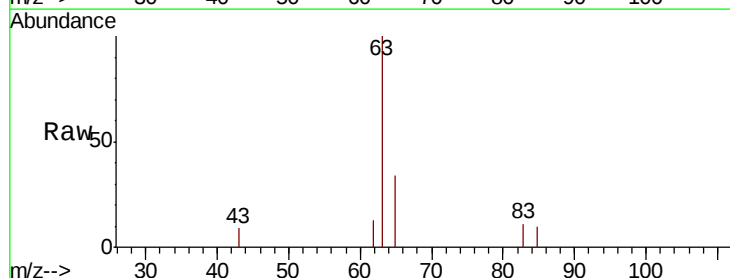
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

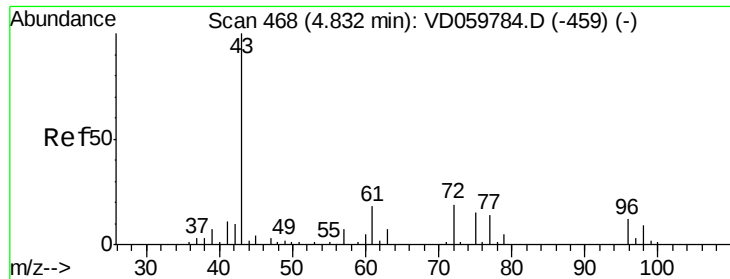
Tot Ion: 43 Resp: 50265  
 Ion Ratio Lower Upper  
 43 100  
 86 6.4 5.4 8.0



#24  
 1,1-Dichloroethane  
 Concen: 2.34 ug/l  
 RT: 3.98 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Tgt Ion: 63 Resp: 11982  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 2.2 6.6#  
 100 0.0 1.6 4.7#





#25

2-Butanone

Concen: 11.38 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

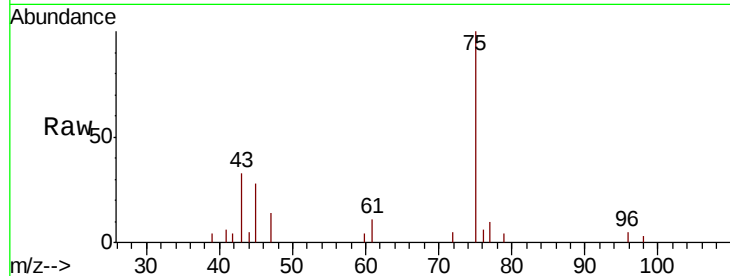
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 9966

Ion Ratio Lower Upper

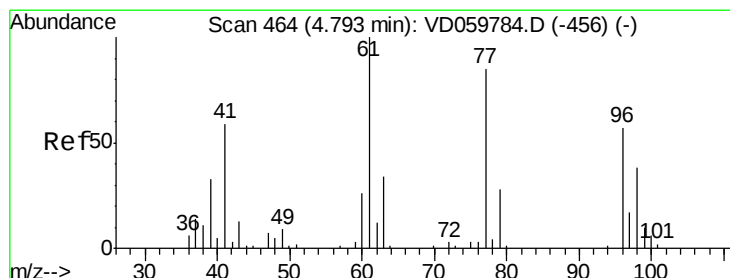
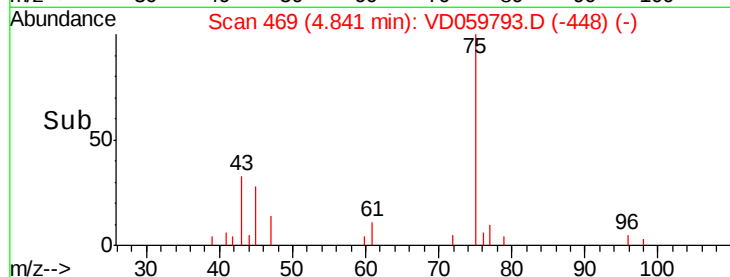
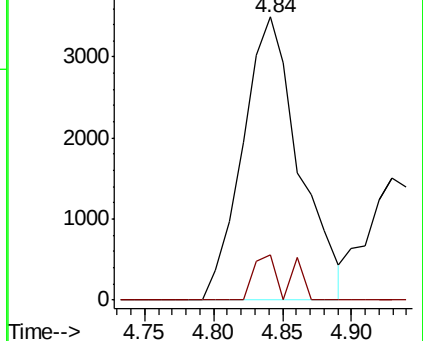
43 100

72 16.0 14.9 22.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.17 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.02 min

Lab File: VD059793.D

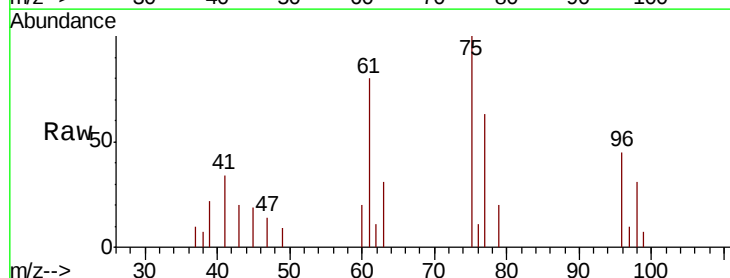
Acq: 15 Aug 2018 6:02

Tgt Ion: 77 Resp: 10147

Ion Ratio Lower Upper

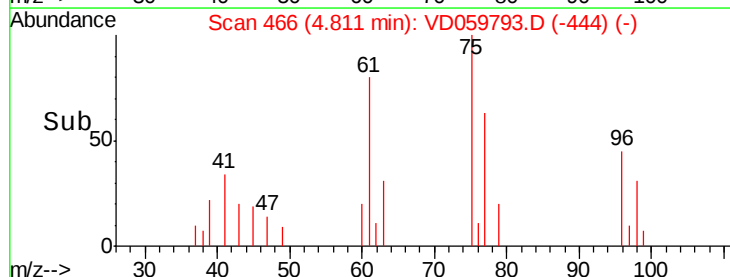
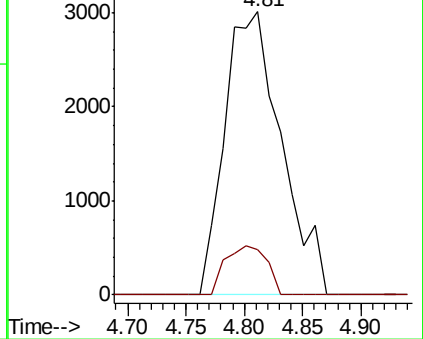
77 100

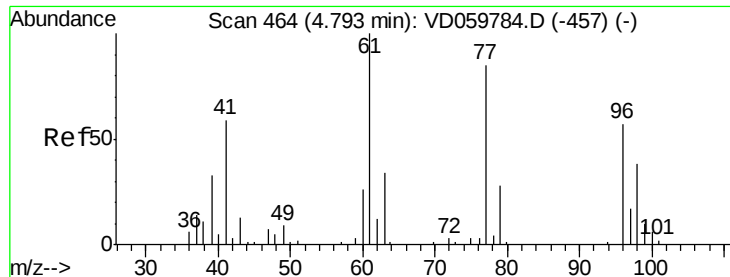
97 15.9 10.3 30.8



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 2.01 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

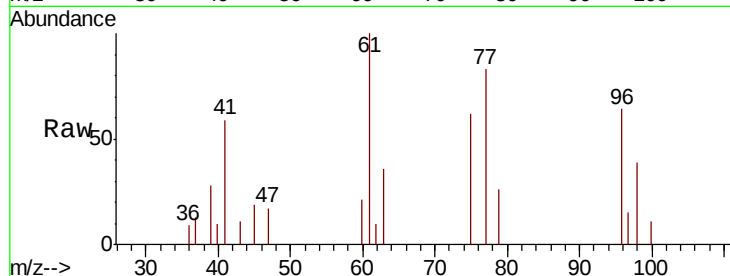
Tot Ion: 96 Resp: 5522

Ion Ratio Lower Upper

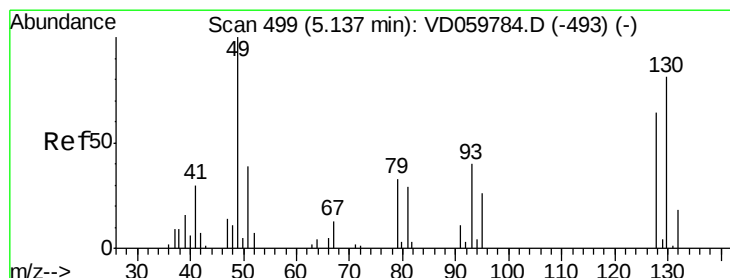
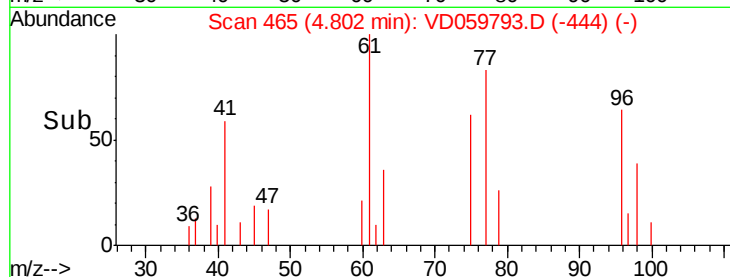
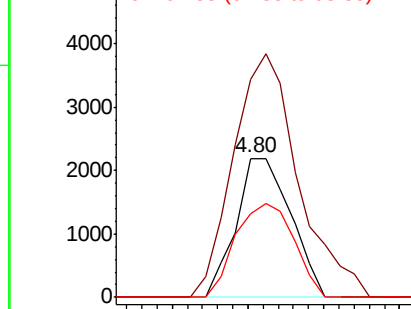
96 100

61 156.4 0.0 351.6

98 60.4 0.0 135.2



Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 2.25 ug/l

RT: 5.16 min Scan# 501

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

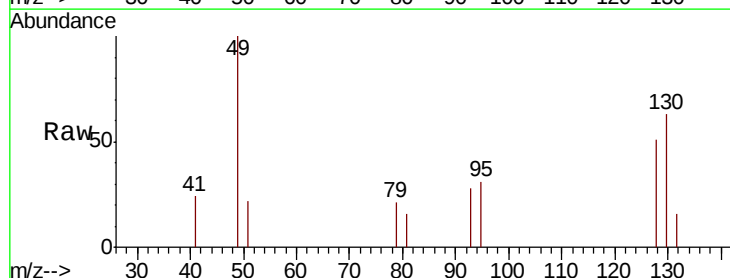
Tgt Ion: 49 Resp: 4524

Ion Ratio Lower Upper

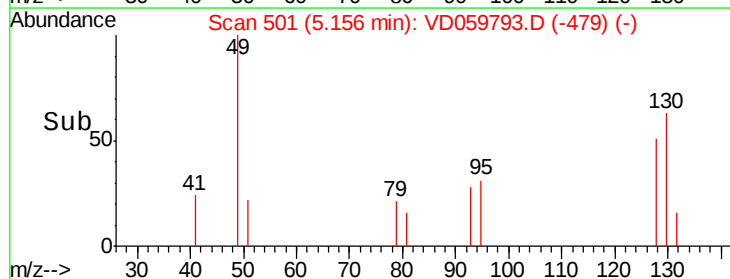
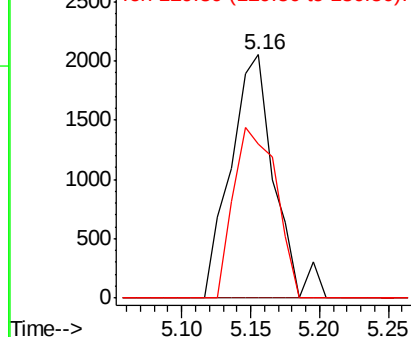
49 100

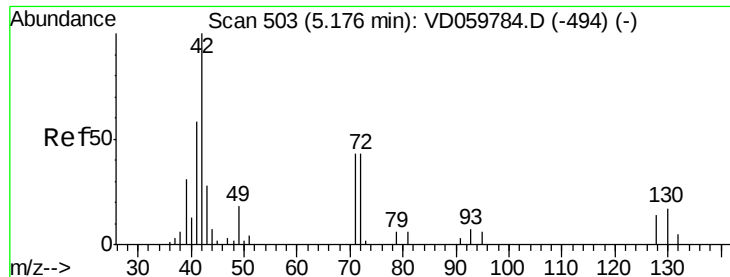
129 0.0 0.0 7.0

130 63.0 64.8 97.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 10.66 ug/l

RT: 5.20 min Scan# 505

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

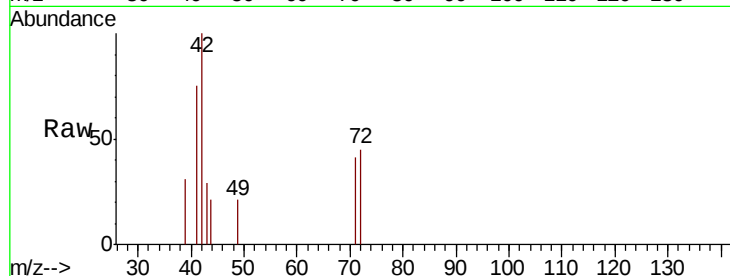
Tot Ion: 42 Resp: 3984

Ion Ratio Lower Upper

42 100

72 39.1 34.3 51.5

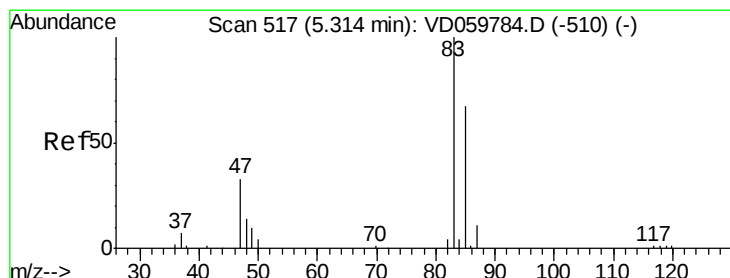
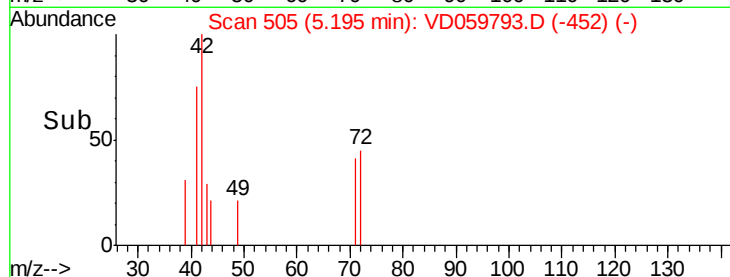
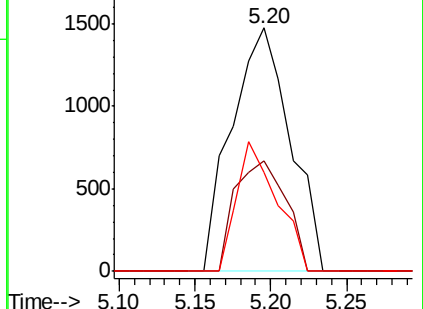
71 36.5 33.0 49.6



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 2.17 ug/l

RT: 5.33 min Scan# 519

Delta R.T. 0.02 min

Lab File: VD059793.D

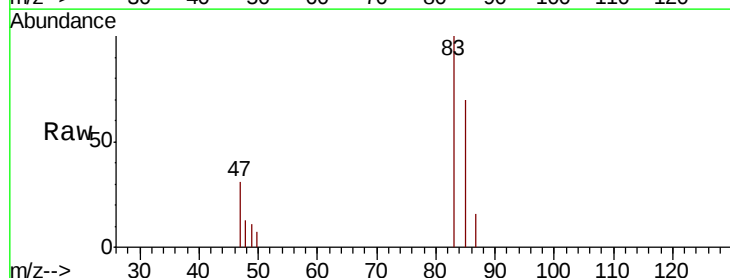
Acq: 15 Aug 2018 6:02

Tgt Ion: 83 Resp: 13318

Ion Ratio Lower Upper

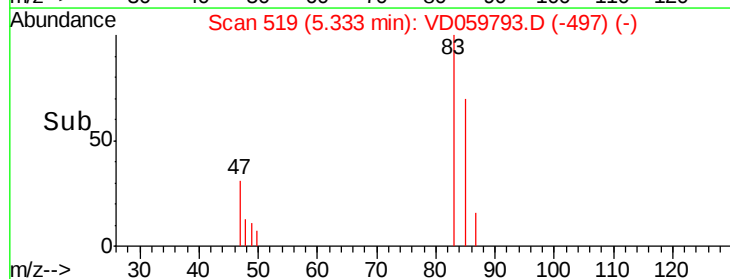
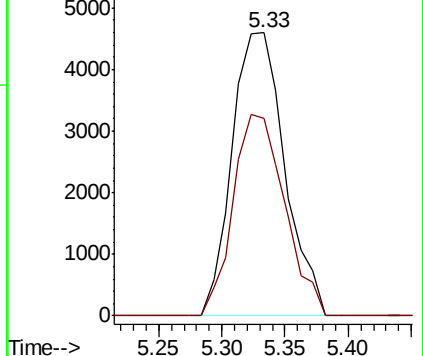
83 100

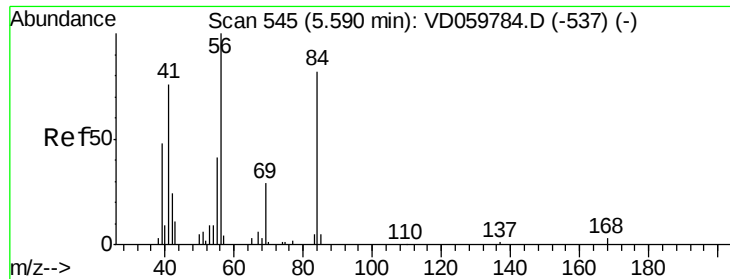
85 69.8 53.4 80.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

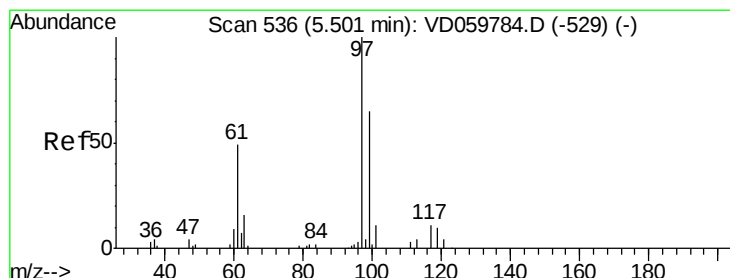
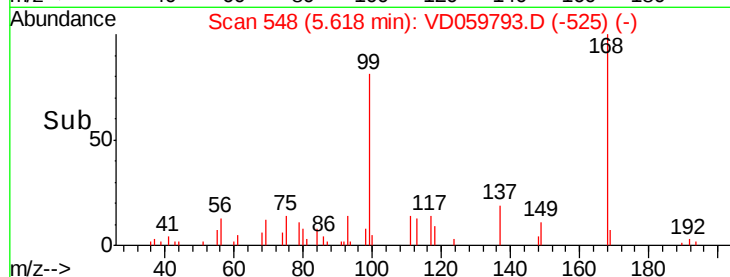
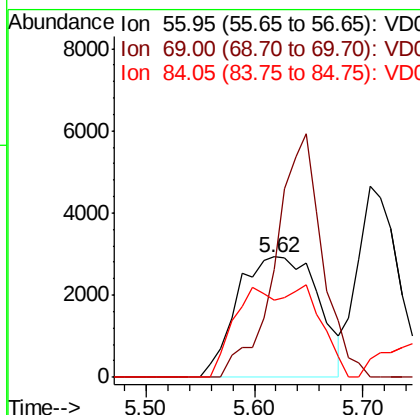
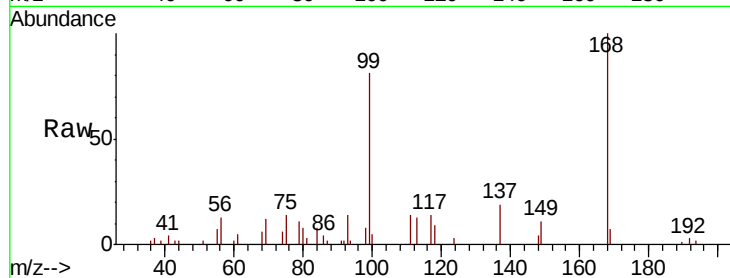




#31  
Cvclohexane  
Concen: 4.15 ug/l  
RT: 5.62 min Scan# 548  
Delta R.T. 0.03 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

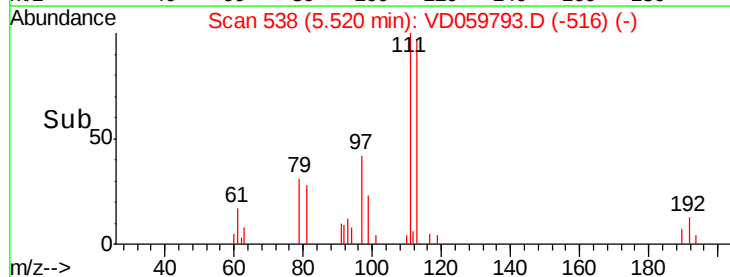
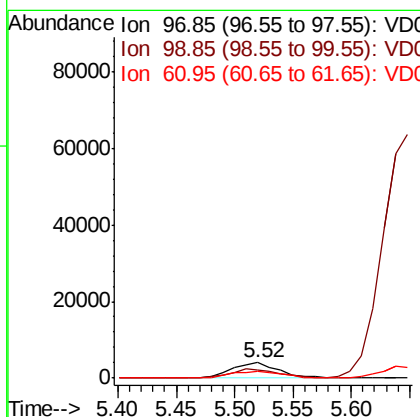
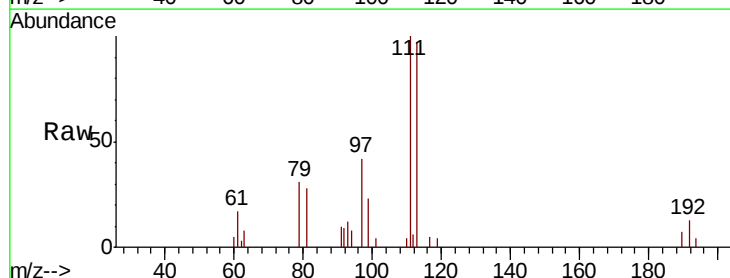
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

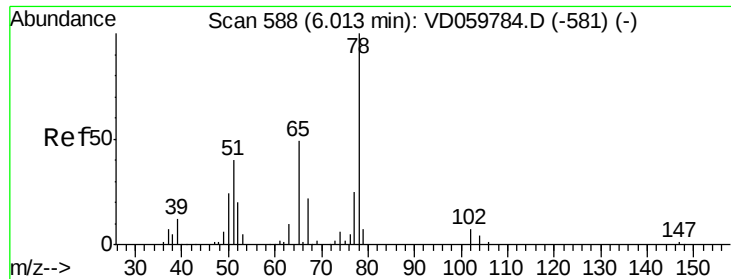
Tot Ion: 56 Resp: 15295  
Ion Ratio Lower Upper  
56 100  
69 89.3 23.4 35.2#  
84 64.2 65.4 98.2#



#32  
1,1,1-Trichloroethane  
Concen: 2.07 ug/l  
RT: 5.52 min Scan# 538  
Delta R.T. 0.02 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 97 Resp: 11206  
Ion Ratio Lower Upper  
97 100  
99 54.5 52.2 78.2  
61 40.9 39.6 59.4

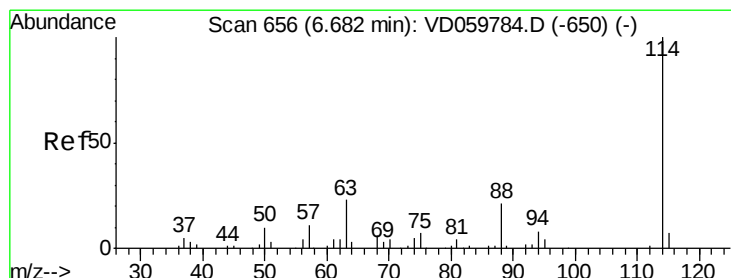
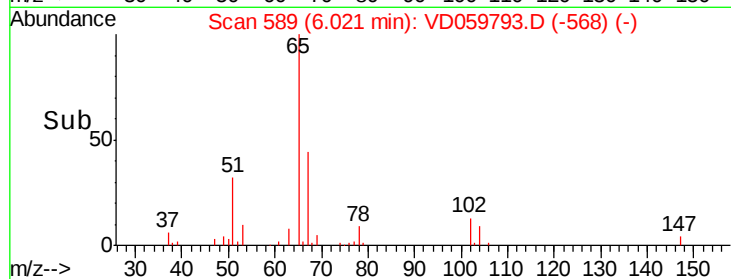
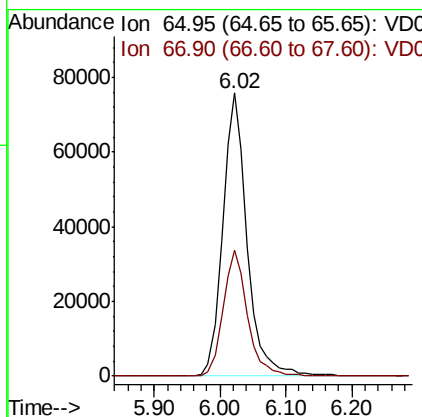
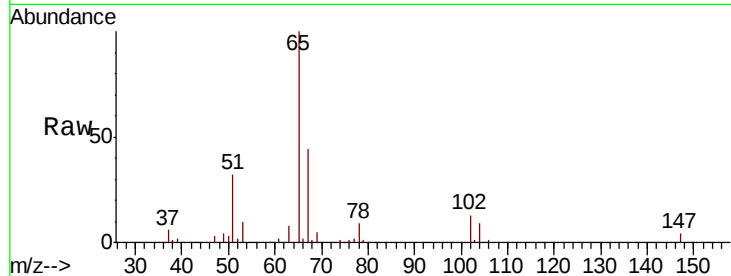




#33  
 1,2-Dichloroethane-d4  
 Concen: 2.07 ug/l  
 RT: 6.02 min Scan# 589  
 Delta R.T. 0.01 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

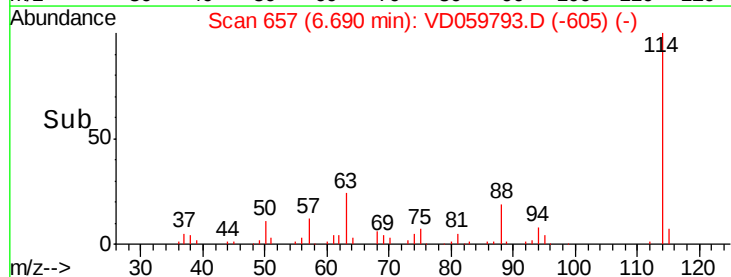
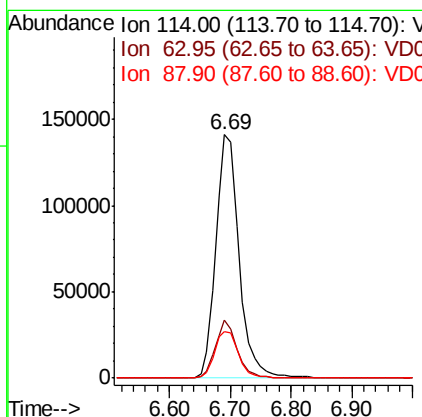
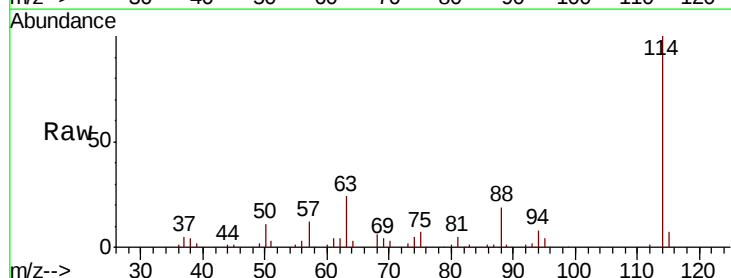
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

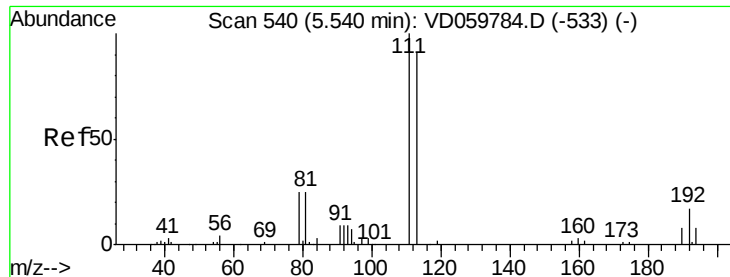
Tot Ion: 65 Resp: 194811  
 Ion Ratio Lower Upper  
 65 100  
 67 44.4 0.0 87.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.69 min Scan# 657  
 Delta R.T. 0.01 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Tgt Ion: 114 Resp: 375773  
 Ion Ratio Lower Upper  
 114 100  
 63 23.6 0.0 45.0  
 88 18.9 0.0 41.2

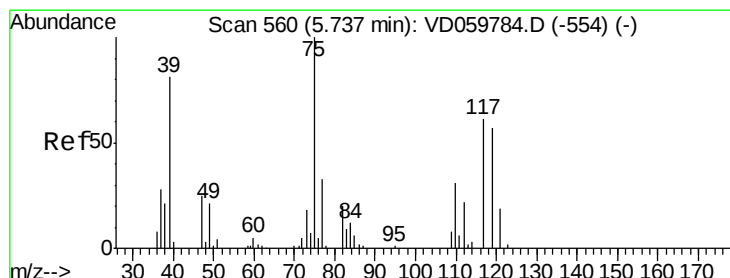
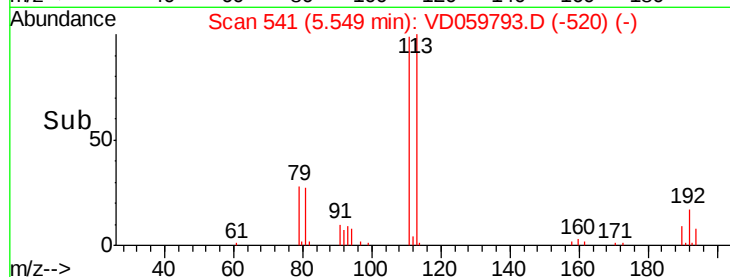
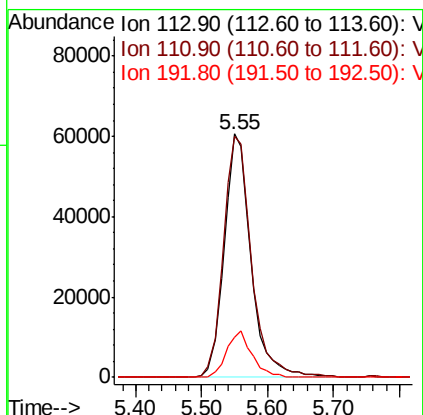
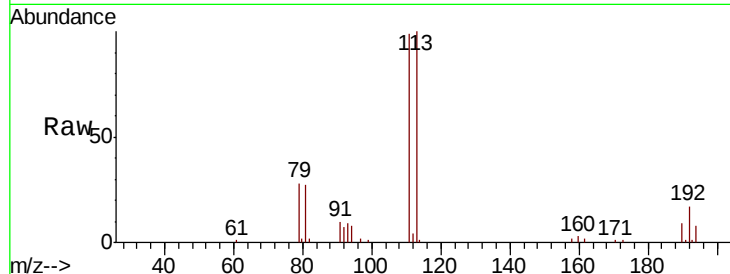




#35  
Dibromofluoromethane  
Concen: 50.00 ug/l  
RT: 5.55 min Scan# 541  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

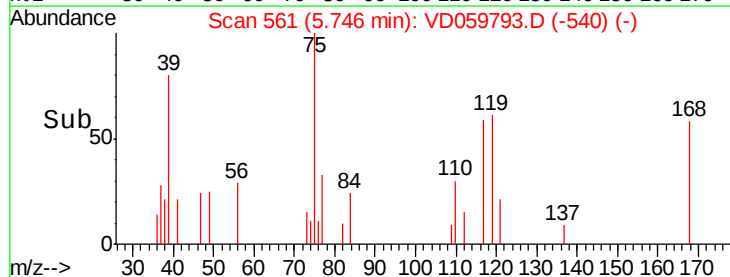
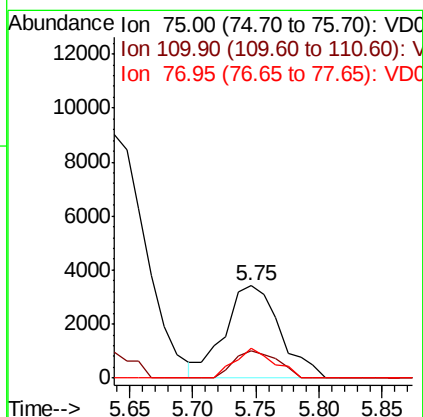
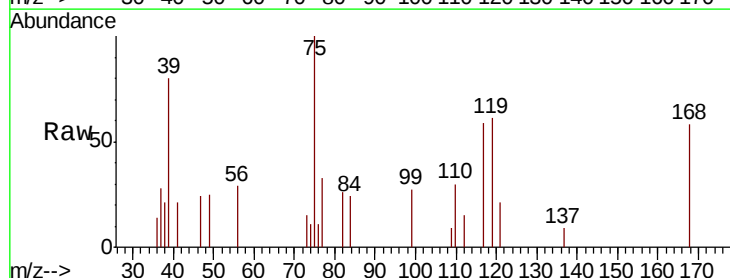
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

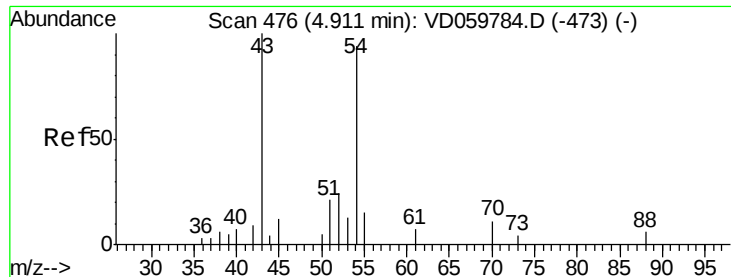
Tot Ion:113 Resp: 172113  
Ion Ratio Lower Upper  
113 100  
111 98.8 87.7 131.5  
192 16.5 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 2.67 ug/l  
RT: 5.75 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 75 Resp: 10310  
Ion Ratio Lower Upper  
75 100  
110 30.0 15.3 45.8  
77 32.5 26.2 39.4





#37

Ethyl Acetate

Concen: 2.24 ug/l

RT: 4.93 min Scan# 478

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

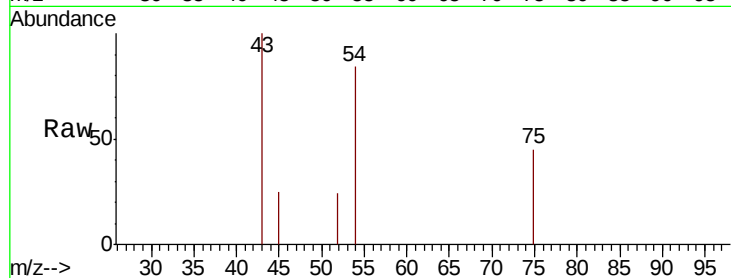
Tot Ion: 43 Resp: 4313

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

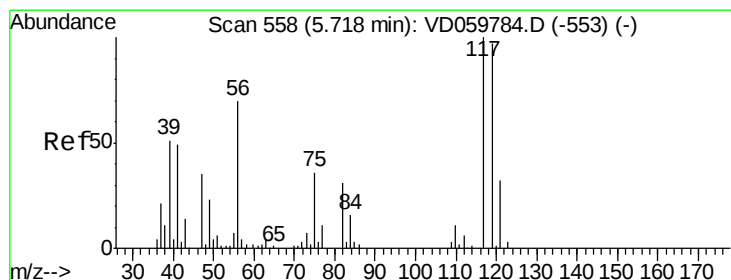
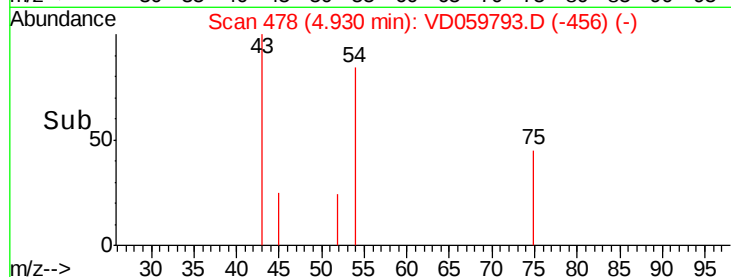
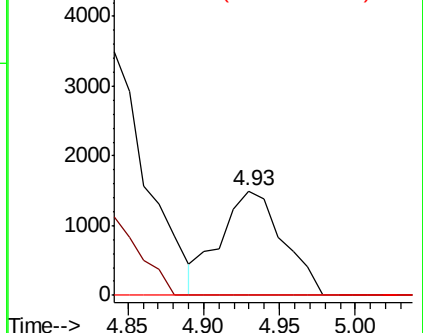
70 0.0 5.8 8.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 2.15 ug/l

RT: 5.73 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

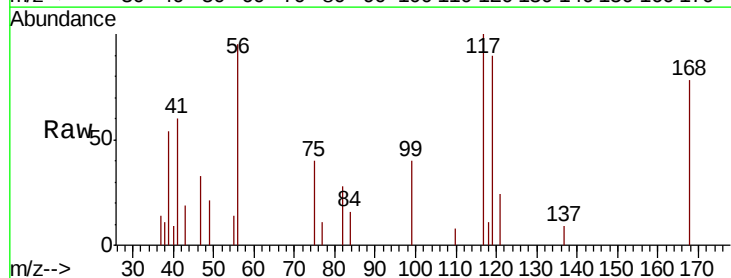
Tgt Ion: 117 Resp: 9980

Ion Ratio Lower Upper

117 100

119 89.5 75.7 113.5

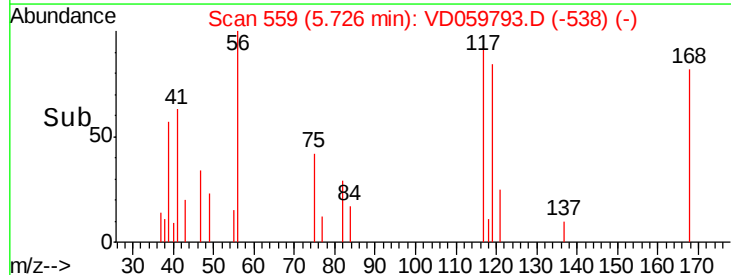
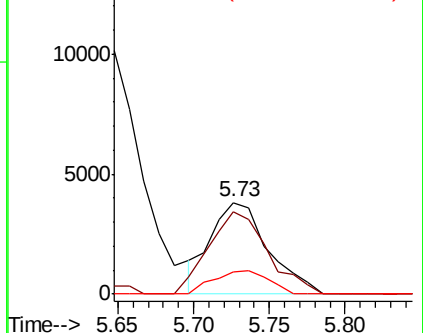
121 23.7 24.7 37.1#

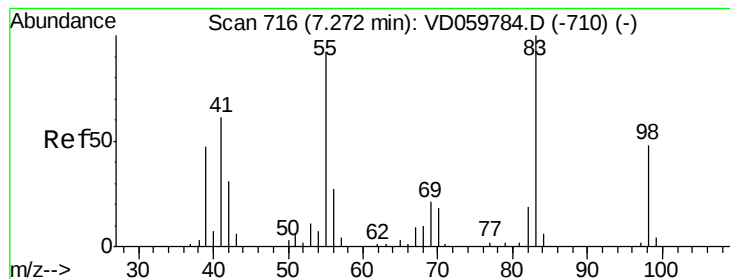


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methylcyclohexane

Concen: 2.22 ug/l

RT: 7.28 min Scan# 717

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

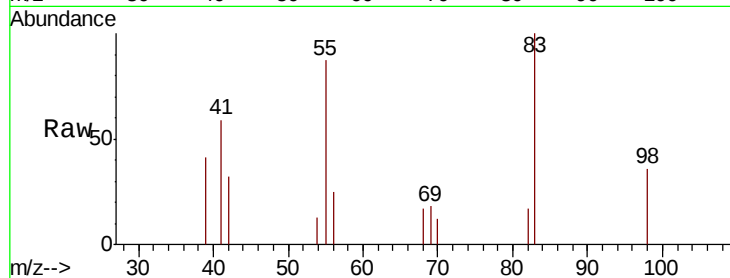
Tot Ion: 83 Resp: 7419

Ion Ratio Lower Upper

83 100

55 87.3 73.8 110.6

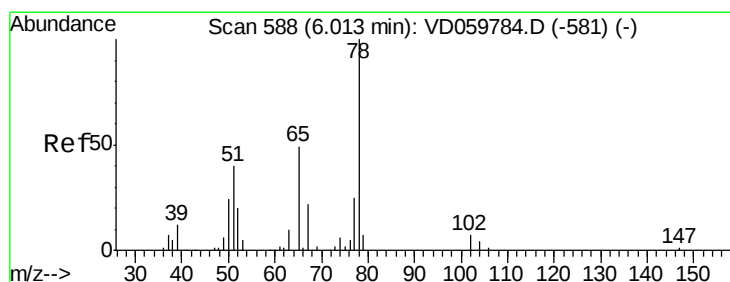
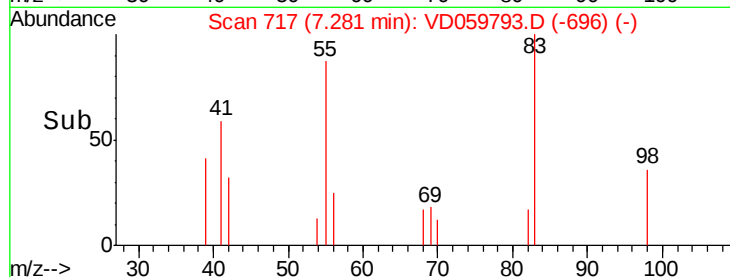
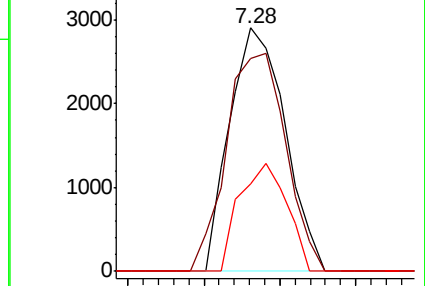
98 35.8 38.4 57.6#



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 2.35 ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD059793.D

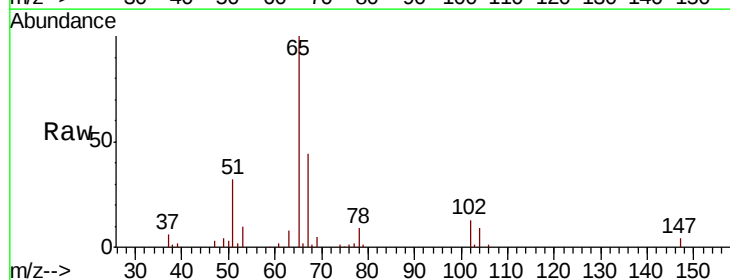
Acq: 15 Aug 2018 6:02

Tgt Ion: 78 Resp: 19193

Ion Ratio Lower Upper

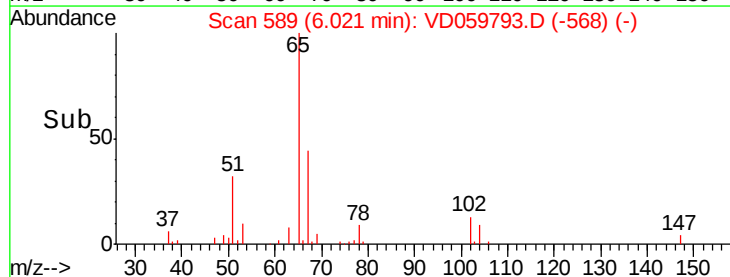
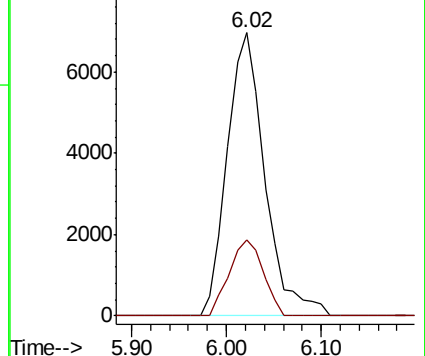
78 100

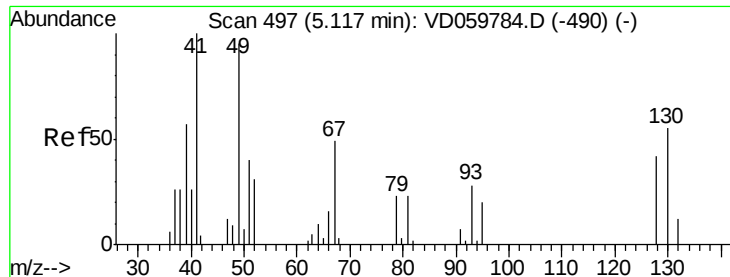
77 26.7 19.6 29.4



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 1.80 ug/l

RT: 5.13 min Scan# 498

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 41 Resp: 1663

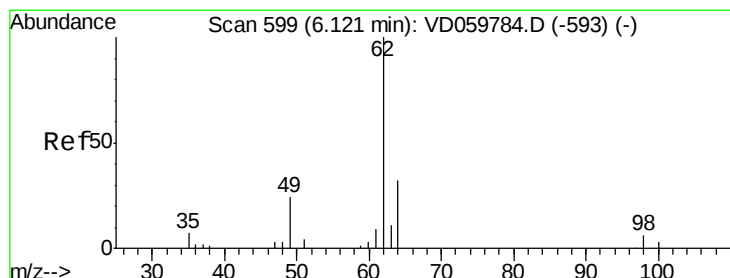
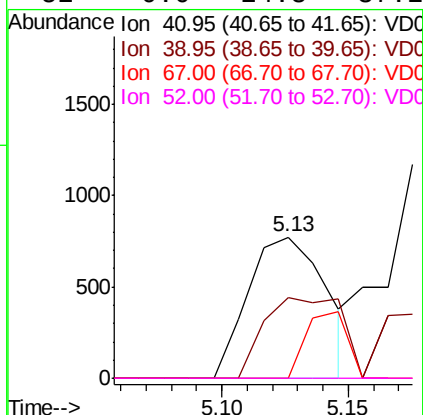
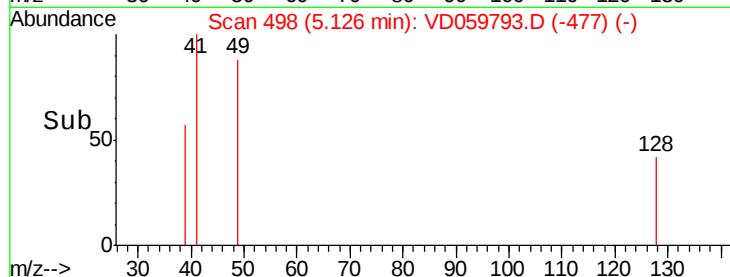
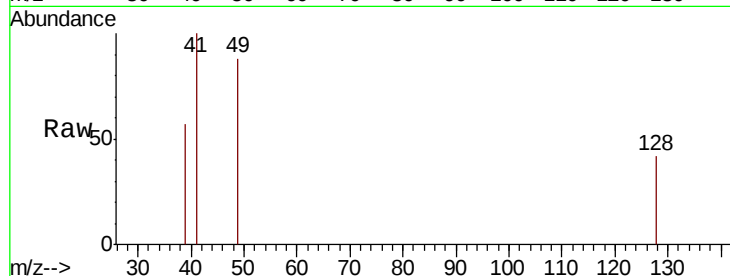
Ion Ratio Lower Upper

41 100

39 57.0 45.4 68.2

67 0.0 39.5 59.3#

52 0.0 24.8 37.2#



#42

1,2-Dichloroethane

Concen: 2.35 ug/l

RT: 6.13 min Scan# 600

Delta R.T. 0.01 min

Lab File: VD059793.D

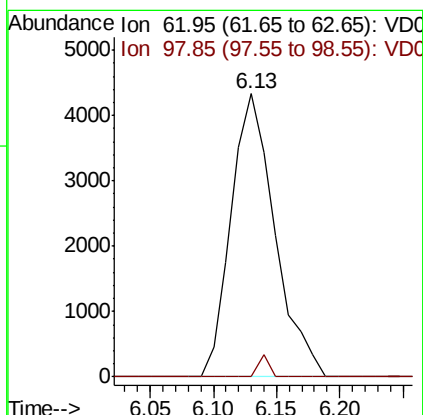
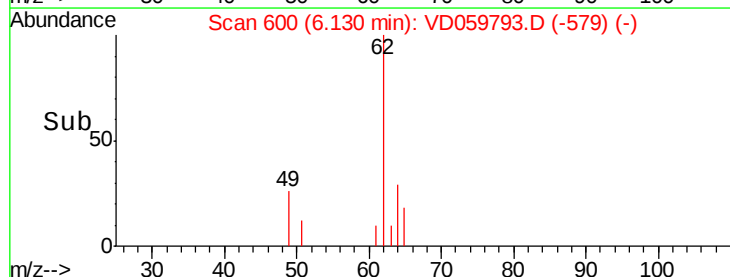
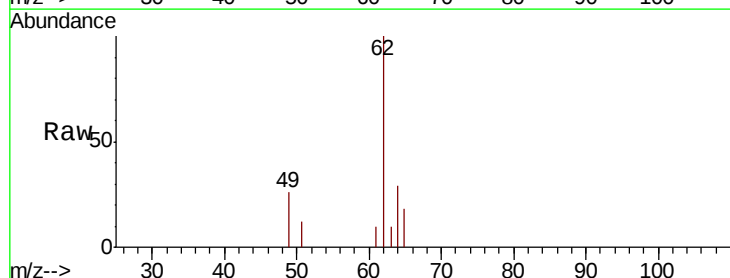
Acq: 15 Aug 2018 6:02

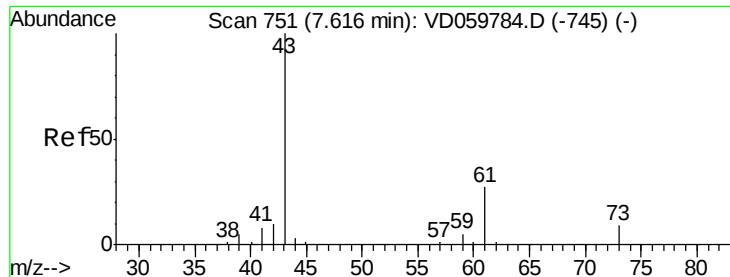
Tgt Ion: 62 Resp: 10393

Ion Ratio Lower Upper

62 100

98 0.0 0.0 12.0





#43

Isopropyl Acetate

Concen: 2.14 ug/l

RT: 7.62 min Scan# 751

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

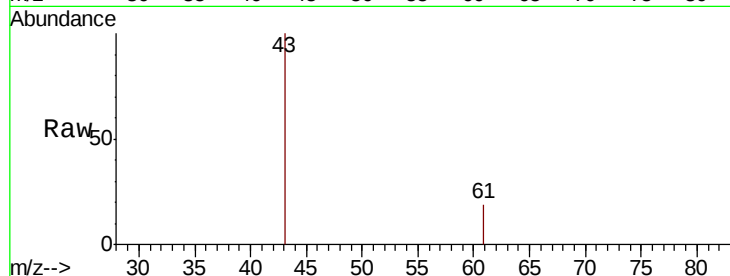
Tot Ion: 43 Resp: 5220

Ion Ratio Lower Upper

43 100

61 19.1 21.2 31.8#

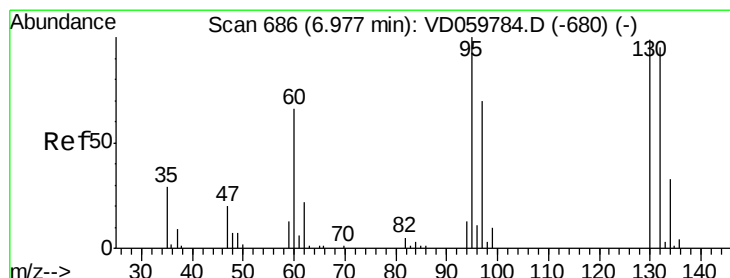
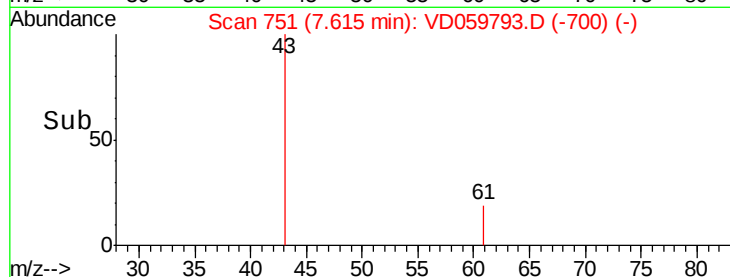
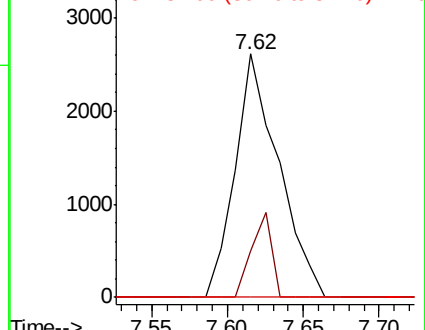
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 2.21 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD059793.D

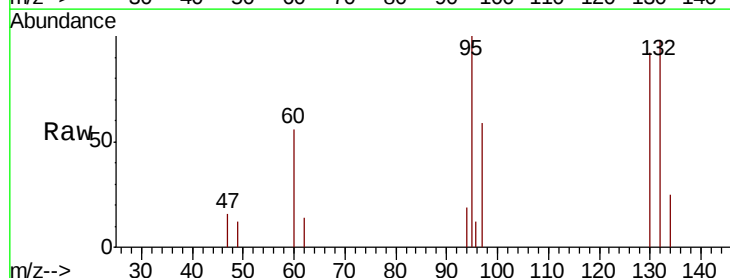
Acq: 15 Aug 2018 6:02

Tgt Ion: 130 Resp: 6181

Ion Ratio Lower Upper

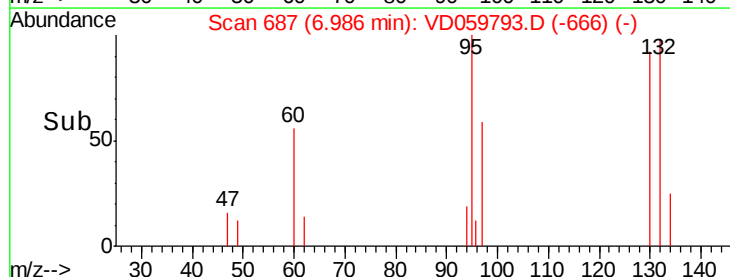
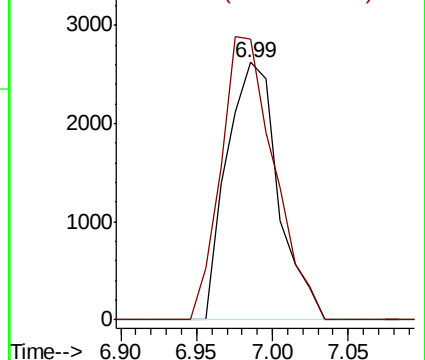
130 100

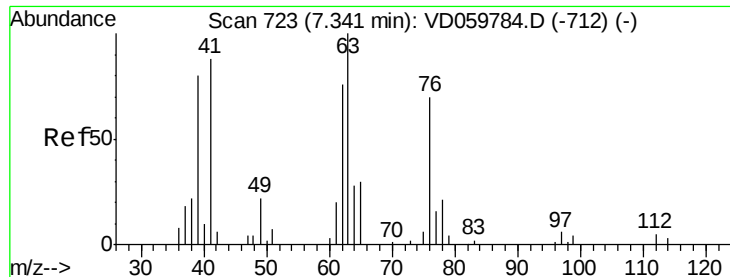
95 109.2 0.0 201.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 2.14 ug/l

RT: 7.36 min Scan# 725

Delta R.T. 0.02 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

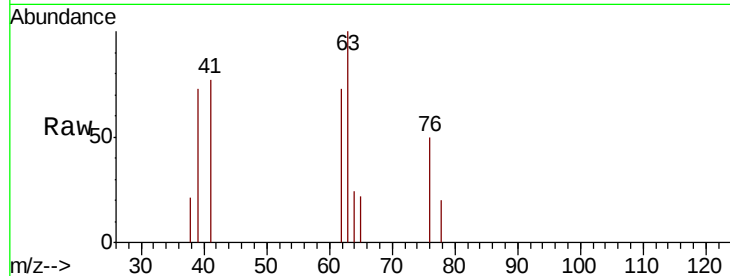
MDL-SOIL-03-QT3-2018

Tot Ion: 63 Resp: 4556

Ion Ratio Lower Upper

63 100

65 22.1 24.2 36.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

7.36

2000

1500

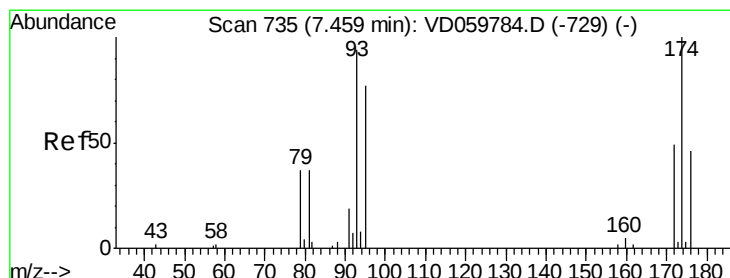
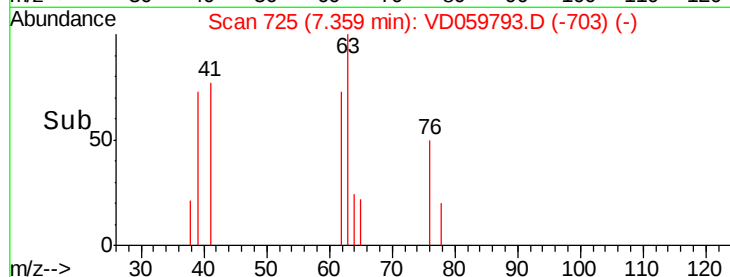
1000

500

0

7.30 7.35 7.40

Time-->



#46

Dibromomethane

Concen: 1.89 ug/l

RT: 7.47 min Scan# 736

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

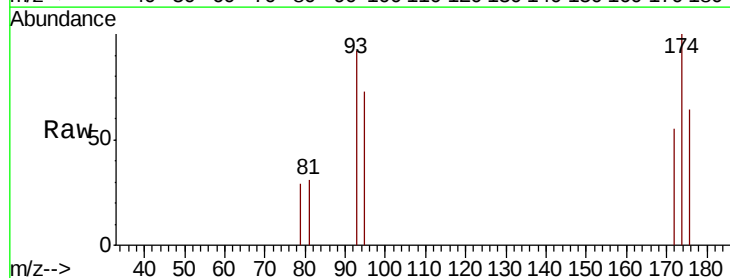
Tgt Ion: 93 Resp: 3292

Ion Ratio Lower Upper

93 100

95 79.4 66.2 99.4

174 109.2 85.5 128.3



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

2000

1500

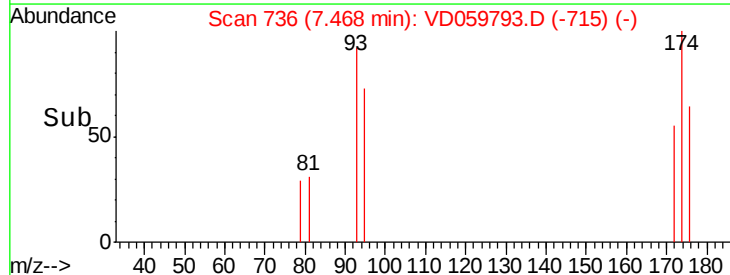
1000

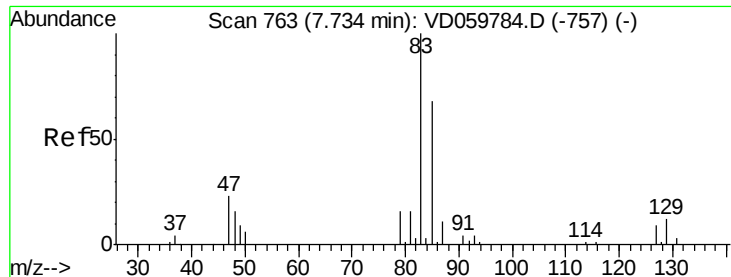
500

0

7.40 7.45 7.50

Time-->





#47

Bromodichloromethane

Concen: 1.99 ug/l

RT: 7.74 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

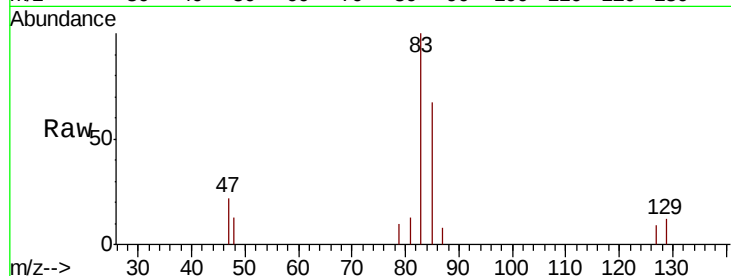
Tot Ion: 83 Resp: 8484

Ion Ratio Lower Upper

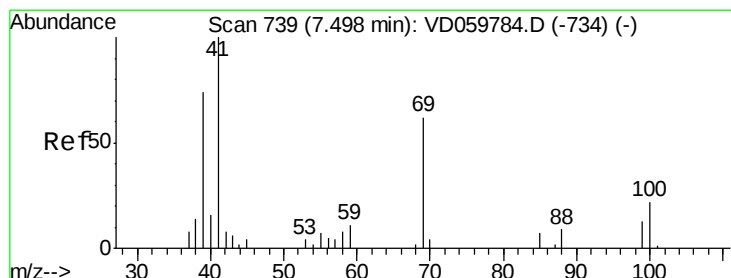
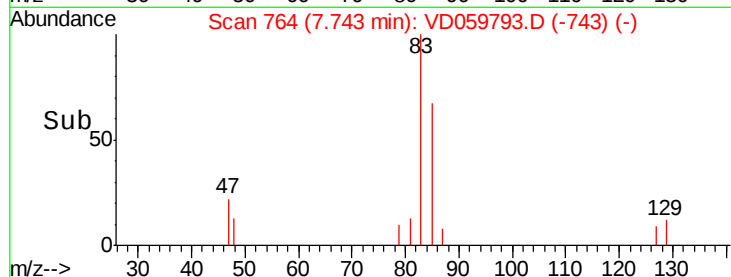
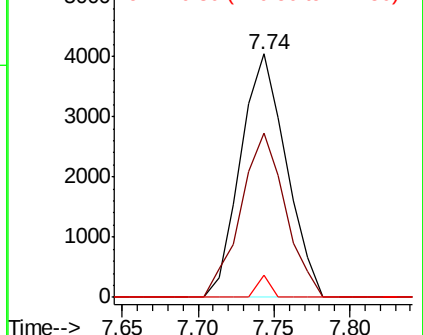
83 100

85 67.5 54.1 81.1

127 9.2 7.5 11.3



Abundance Ion 82.85 (82.55 to 83.55): VDC  
Ion 84.95 (84.65 to 85.65): VDC  
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 1.77 ug/l

RT: 7.50 min Scan# 739

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

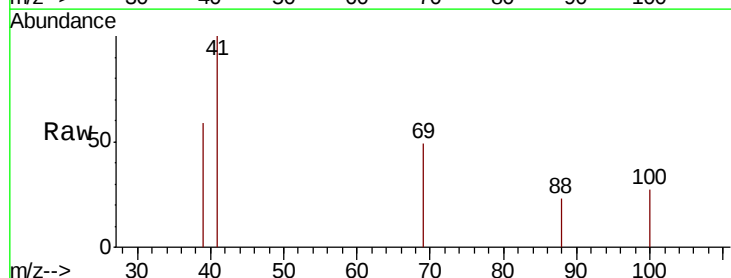
Tgt Ion: 41 Resp: 2811

Ion Ratio Lower Upper

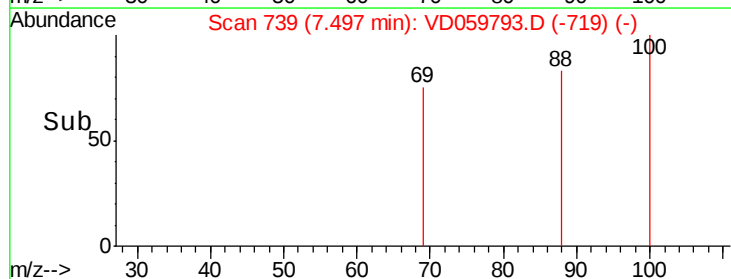
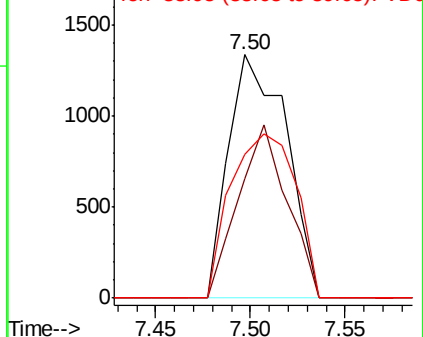
41 100

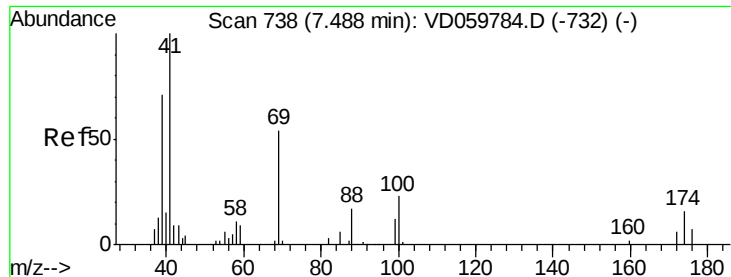
69 48.8 49.8 74.8#

39 58.9 59.0 88.4#



Abundance Ion 40.95 (40.65 to 41.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 38.95 (38.65 to 39.65): VDC

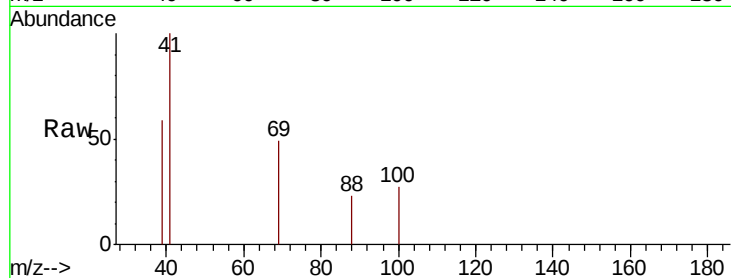




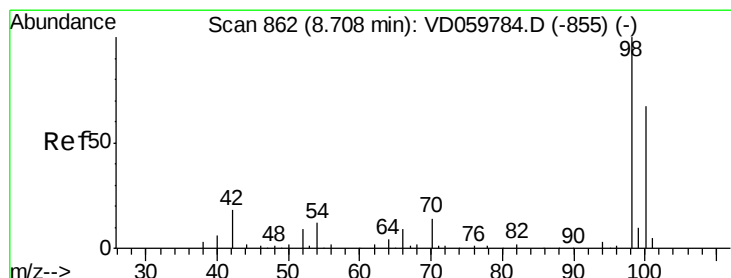
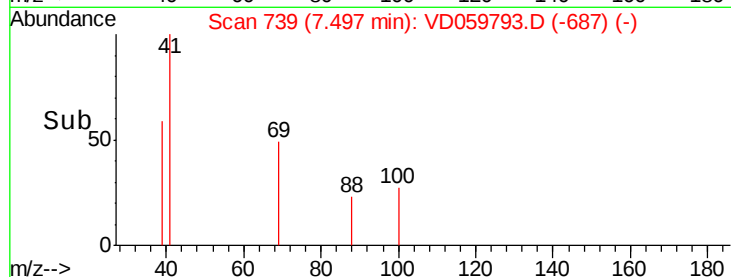
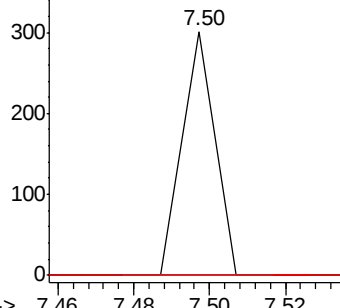
#49  
1,4-Dioxane  
Concen: 12.72 ug/l  
RT: 7.50 min Scan# 739  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Tot Ion: 88 Resp: 178  
Ion Ratio Lower Upper  
88 100  
43 0.0 42.0 63.0#  
58 0.0 51.4 77.0#

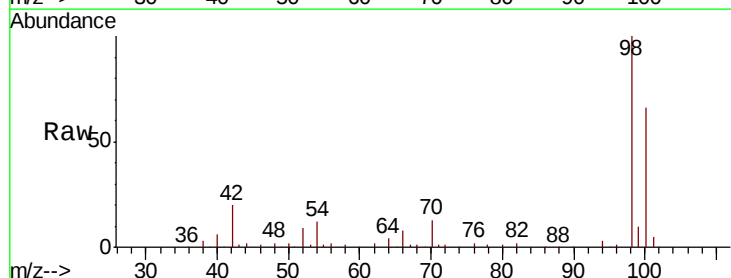


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.05 (42.75 to 43.75): VDC  
Ion 57.95 (57.65 to 58.65): VDC

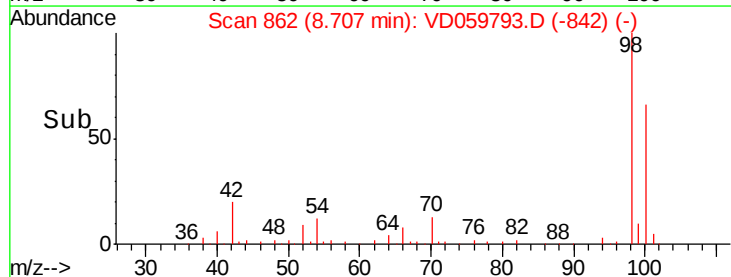
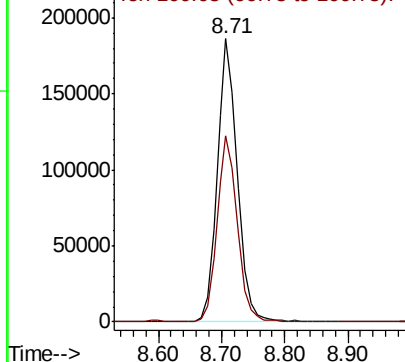


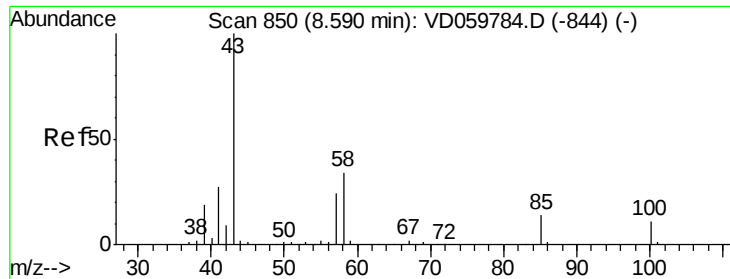
#50  
Toluene-d8  
Concen: 12.72 ug/l  
RT: 8.71 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 98 Resp: 414363  
Ion Ratio Lower Upper  
98 100  
100 65.6 54.2 81.4



Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 10.53 ug/l

RT: 8.60 min Scan# 851

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

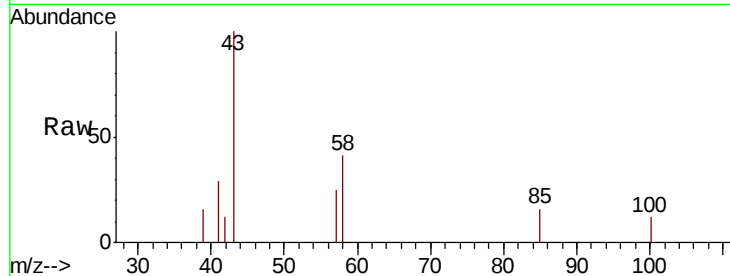
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 19380

Ion Ratio Lower Upper

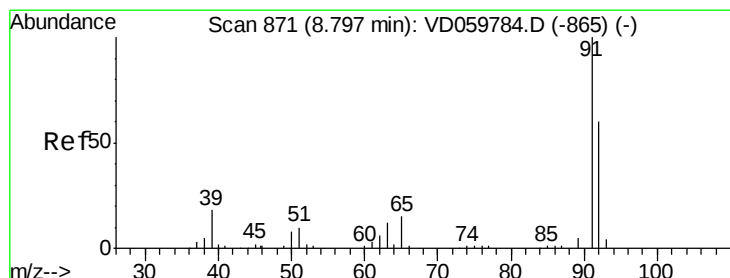
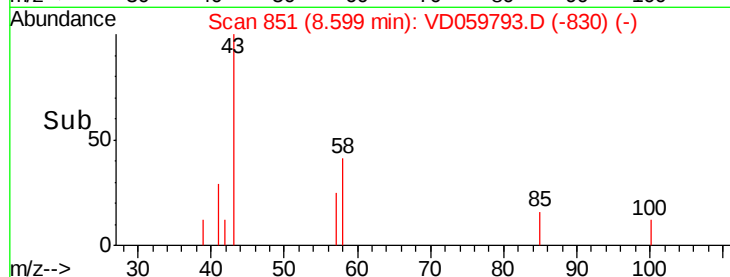
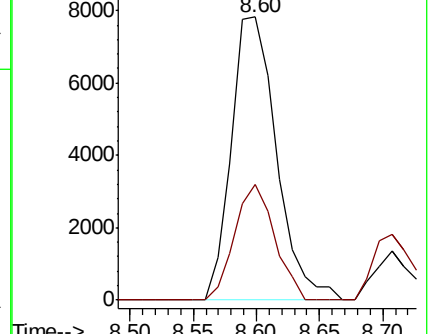
43 100

58 40.7 27.5 41.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 2.53 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.01 min

Lab File: VD059793.D

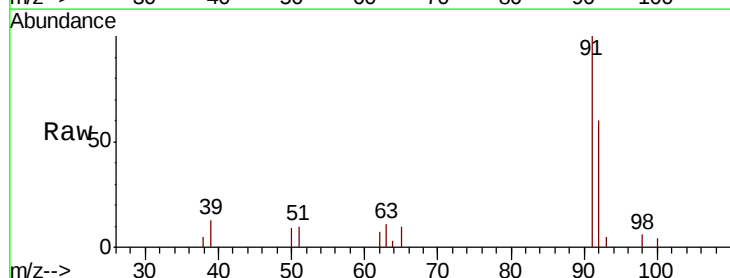
Acq: 15 Aug 2018 6:02

Tgt Ion: 92 Resp: 13258

Ion Ratio Lower Upper

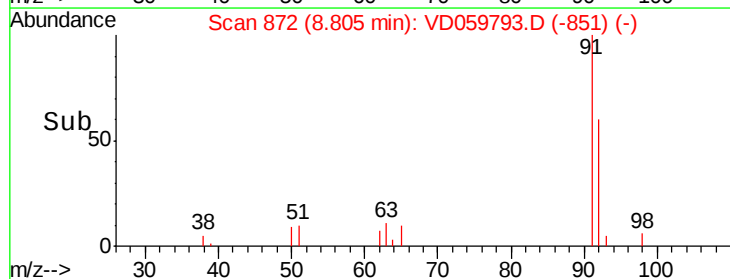
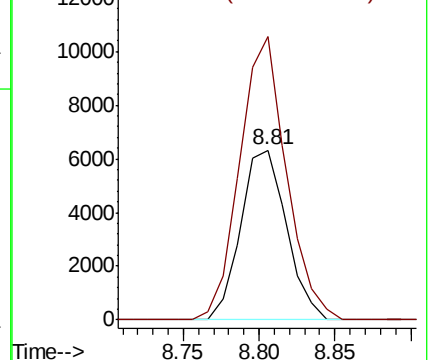
92 100

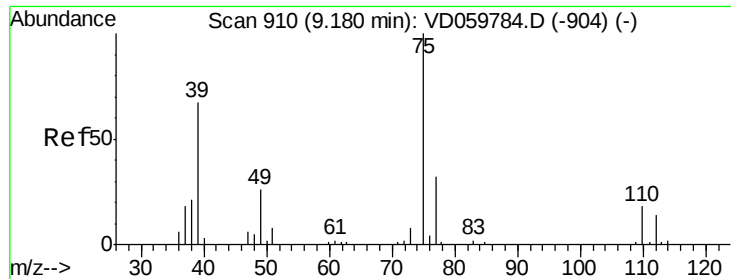
91 166.9 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 1.98 ug/l

RT: 9.19 min Scan# 911

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

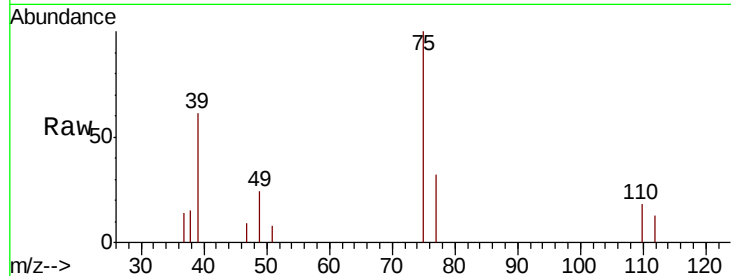
MDL-SOIL-03-QT3-2018

Tot Ion: 75 Resp: 6987

Ion Ratio Lower Upper

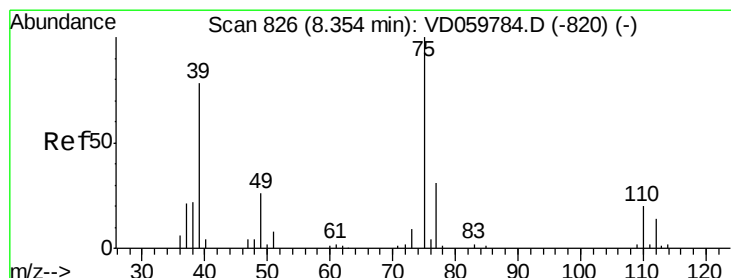
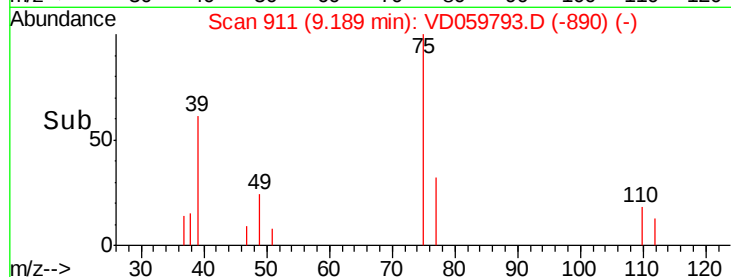
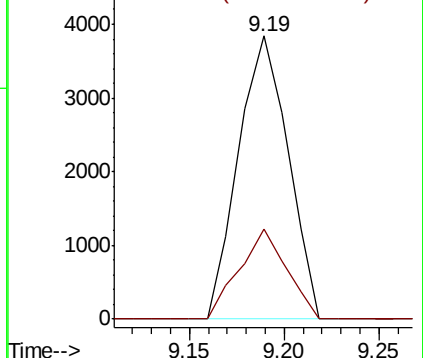
75 100

77 32.0 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 1.98 ug/l

RT: 8.36 min Scan# 827

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

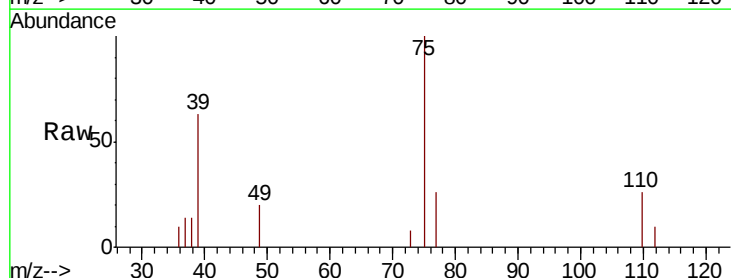
Tgt Ion: 75 Resp: 7565

Ion Ratio Lower Upper

75 100

77 26.0 24.8 37.2

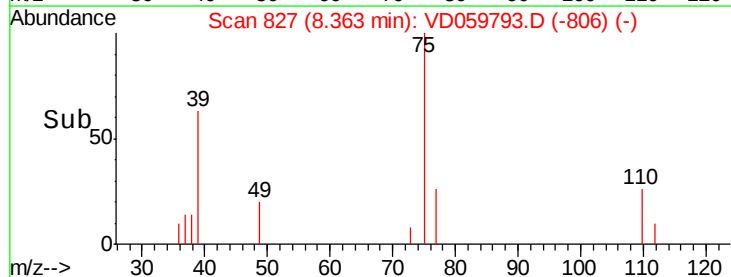
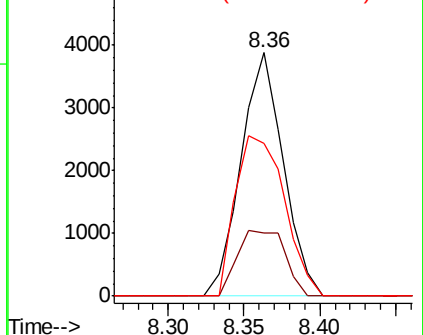
39 62.5 62.5 93.7

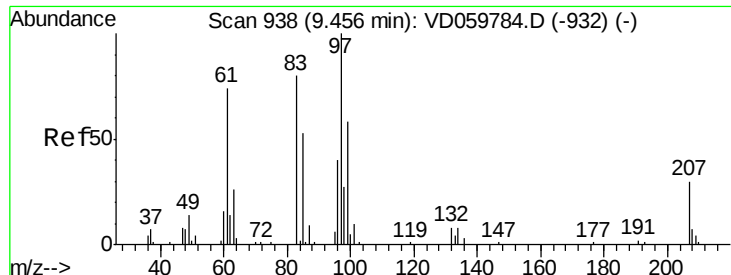


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 2.55 ug/l

RT: 9.45 min Scan# 938

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 97 Resp: 4926

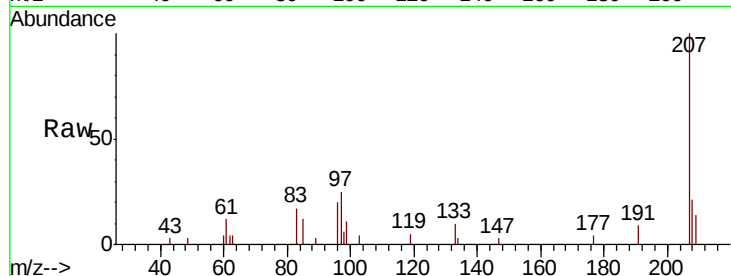
Ion Ratio Lower Upper

97 100

83 71.2 63.8 95.8

85 49.0 42.5 63.7

99 46.7 46.2 69.4

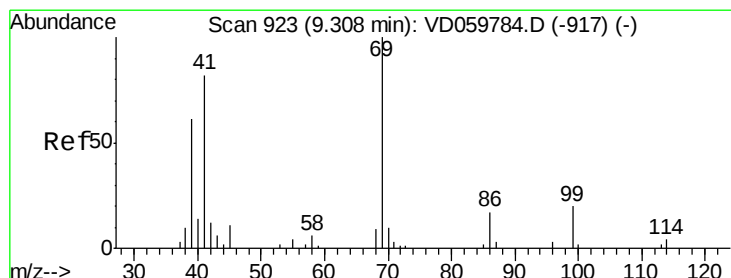
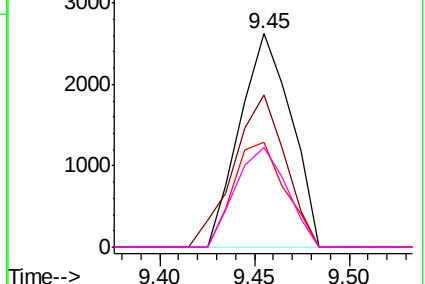
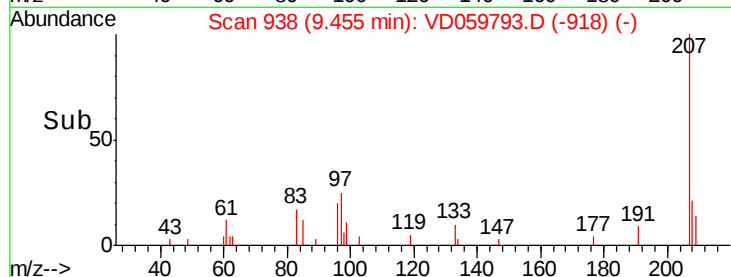


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 1.99 ug/l

RT: 9.31 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

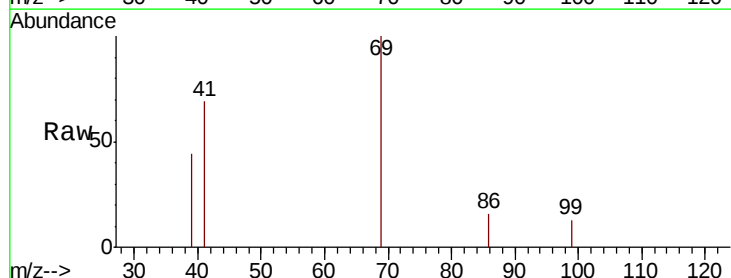
Tgt Ion: 69 Resp: 4176

Ion Ratio Lower Upper

69 100

41 69.0 65.8 98.8

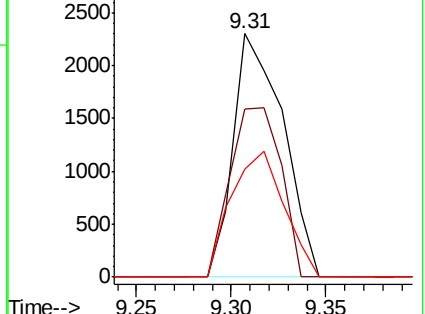
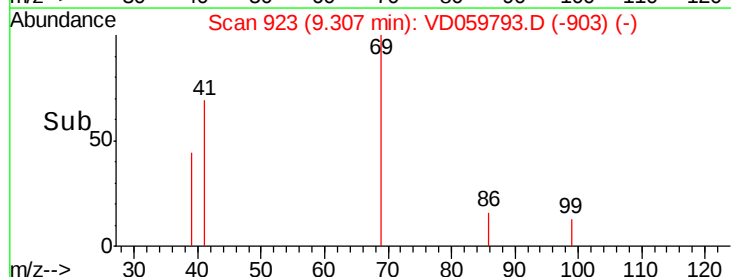
39 44.2 49.7 74.5#

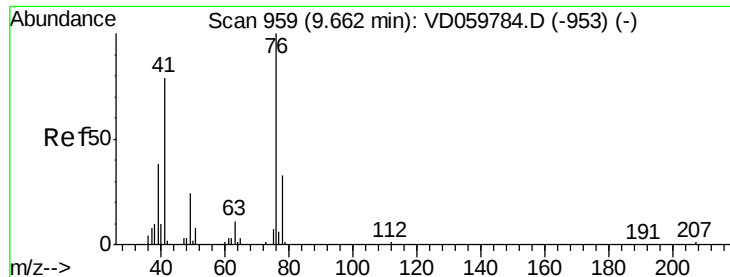


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 2.39 ug/l

RT: 9.67 min Scan# 960

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

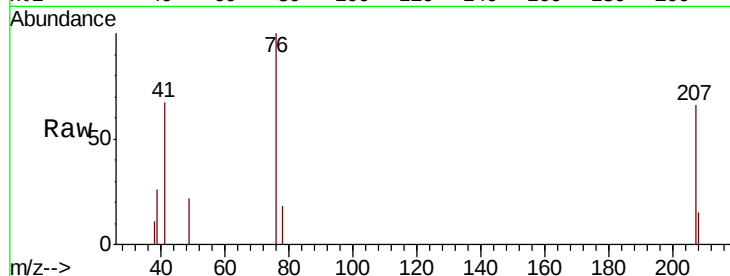
MDL-SOIL-03-QT3-2018

Tot Ion: 76 Resp: 7247

Ion Ratio Lower Upper

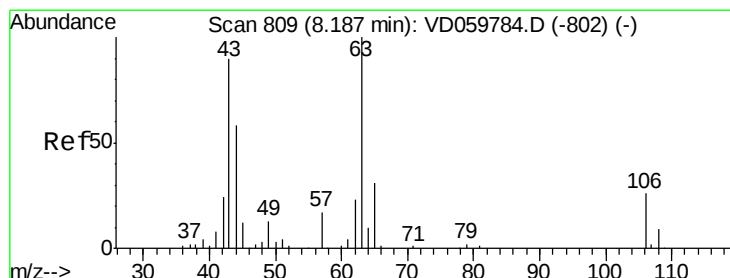
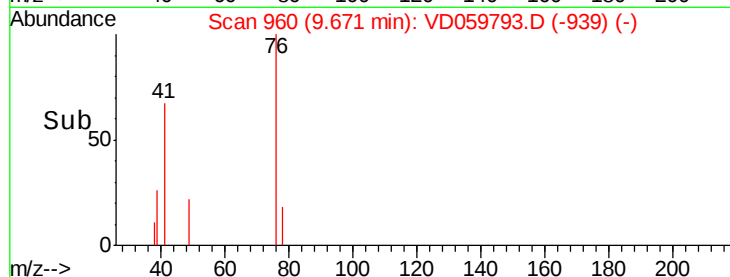
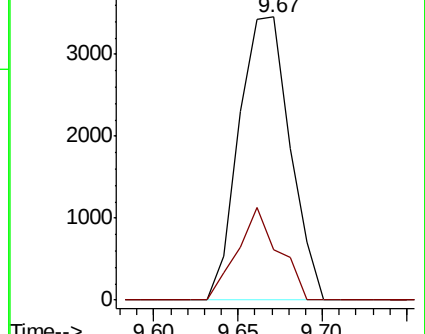
76 100

78 17.7 26.4 39.6#



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 11.02 ug/l

RT: 8.20 min Scan# 810

Delta R.T. 0.01 min

Lab File: VD059793.D

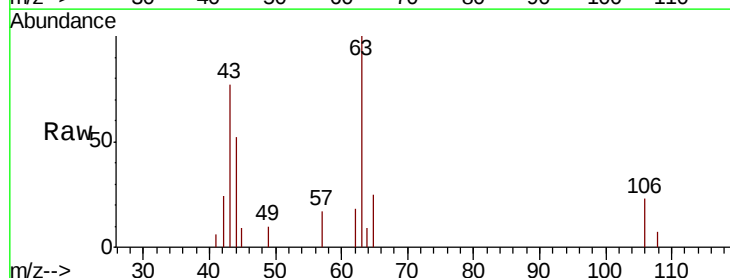
Acq: 15 Aug 2018 6:02

Tgt Ion: 63 Resp: 11403

Ion Ratio Lower Upper

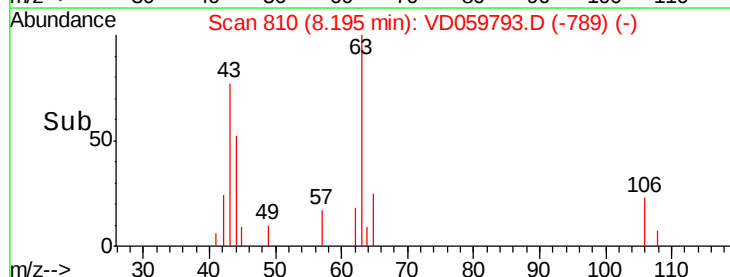
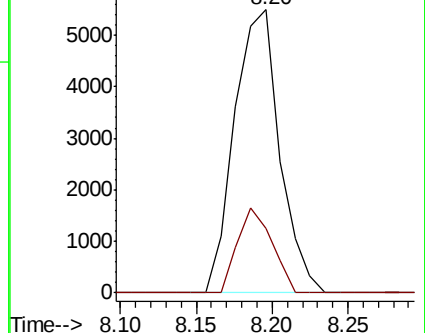
63 100

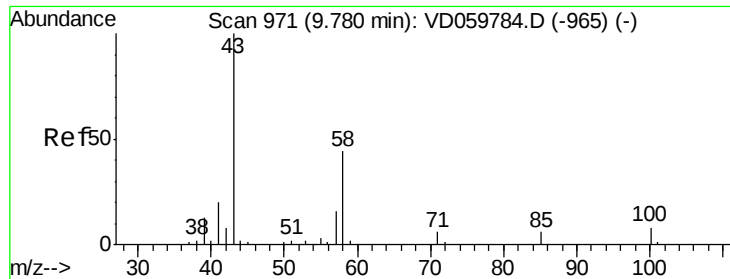
106 23.0 21.1 31.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

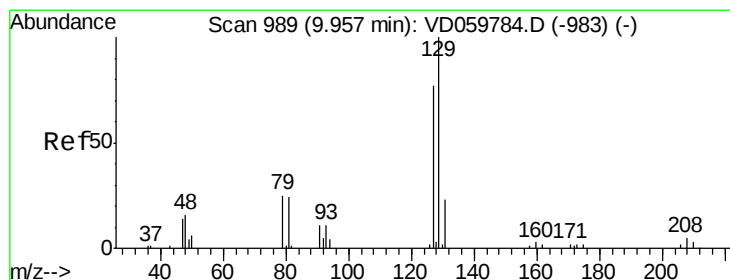
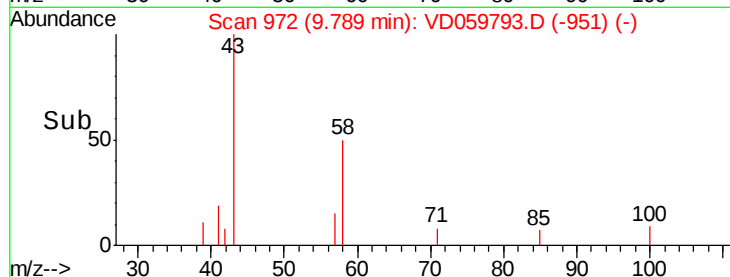
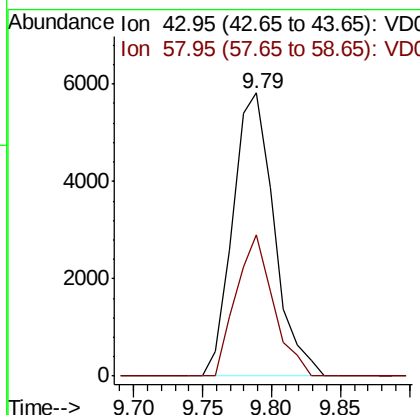
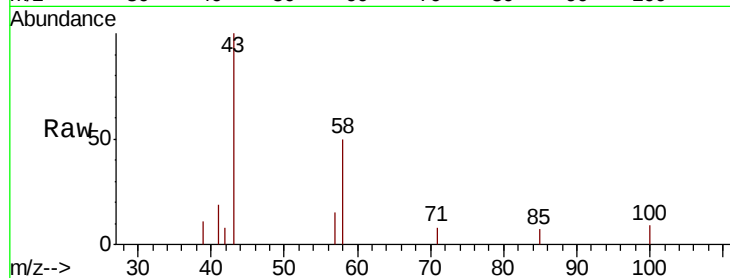




#59  
2-Hexanone  
Concen: 9.19 ug/l  
RT: 9.79 min Scan# 972  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

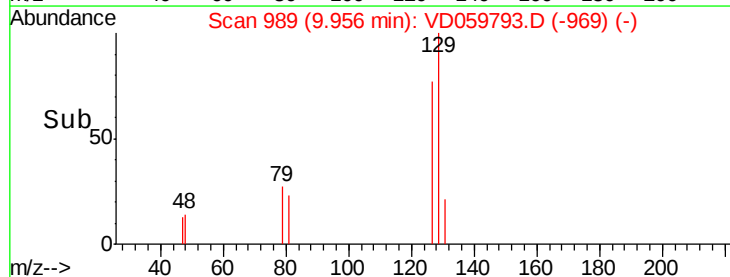
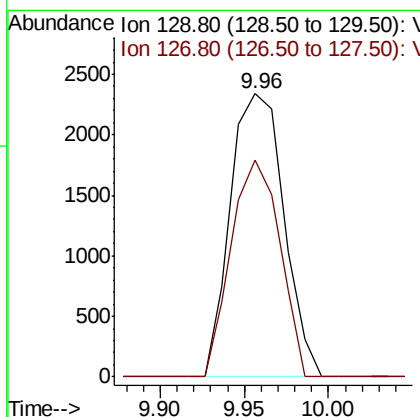
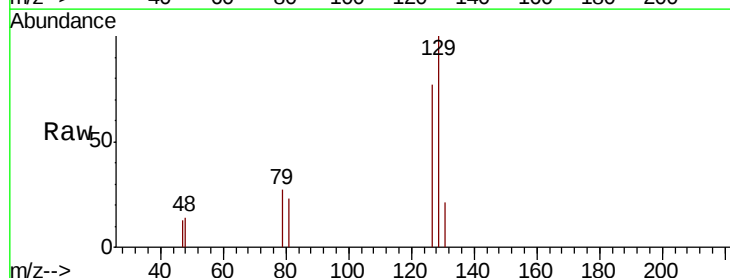
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

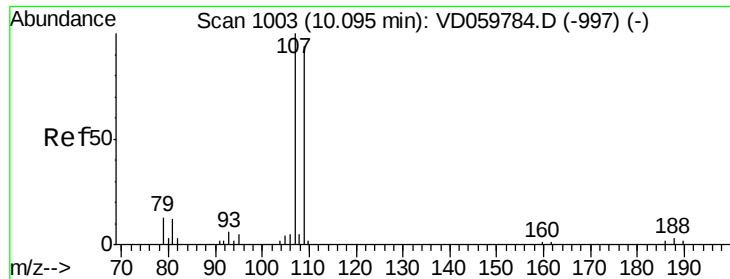
Tot Ion: 43 Resp: 12123  
Ion Ratio Lower Upper  
43 100  
58 50.1 22.3 66.8



#60  
Dibromochloromethane  
Concen: 1.83 ug/l  
RT: 9.96 min Scan# 989  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion:129 Resp: 5145  
Ion Ratio Lower Upper  
129 100  
127 76.8 38.4 115.1

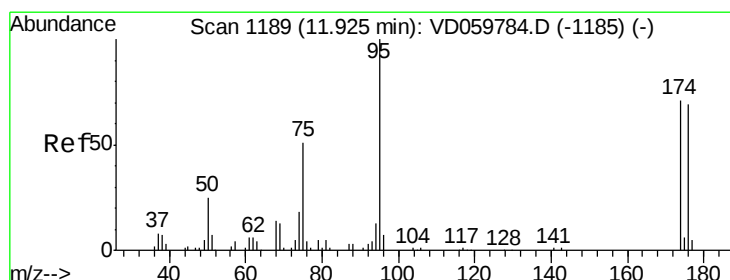
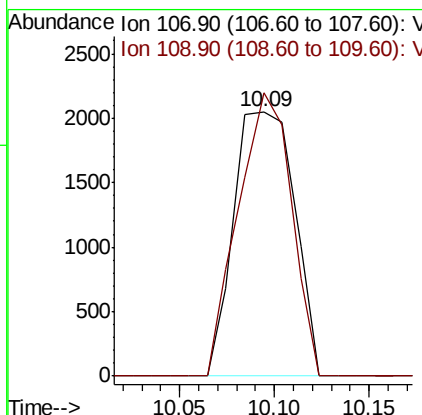
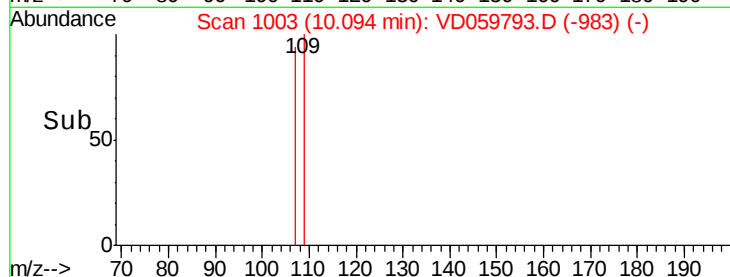
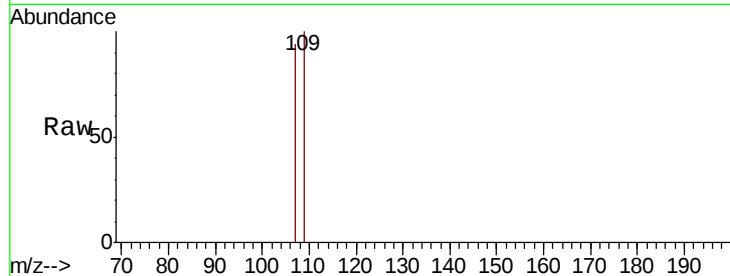




#61  
 1,2-Dibromoethane  
 Concen: 2.13 ug/l  
 RT: 10.09 min Scan# 1003  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

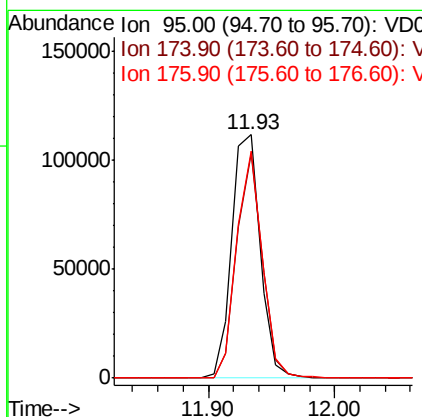
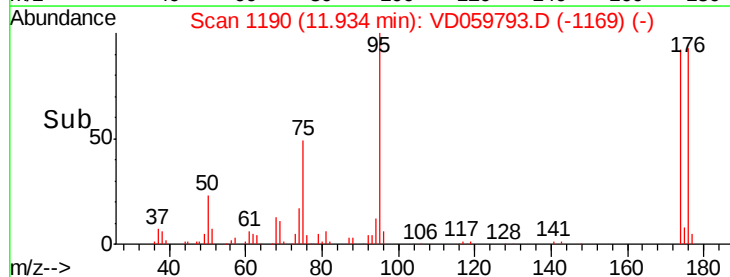
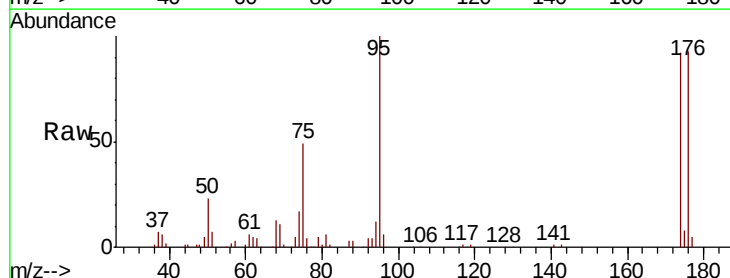
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

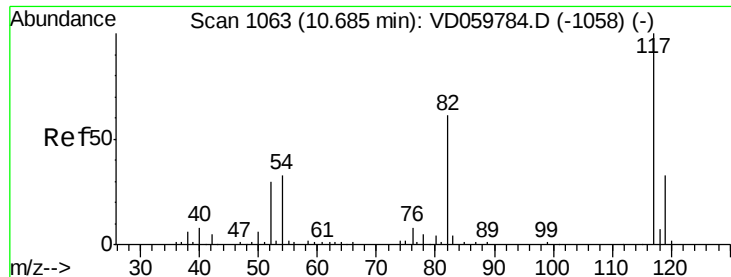
Tot Ion:107 Resp: 4567  
 Ion Ratio Lower Upper  
 107 100  
 109 106.9 75.2 112.8



#62  
 4-Bromofluorobenzene  
 Concen: 2.13 ug/l  
 RT: 11.93 min Scan# 1190  
 Delta R.T. 0.01 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Tgt Ion: 95 Resp: 173577  
 Ion Ratio Lower Upper  
 95 100  
 174 92.0 0.0 142.2  
 176 93.4 0.0 137.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.68 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

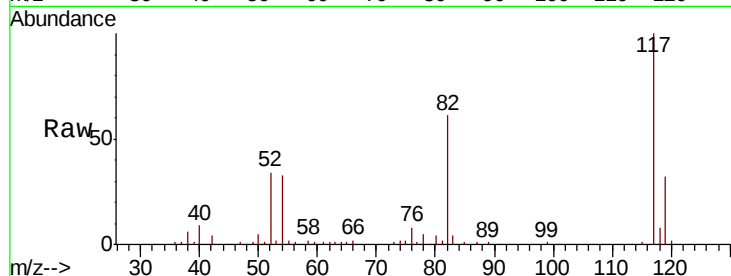
Tot Ion:117 Resp: 308940

Ion Ratio Lower Upper

117 100

82 61.5 49.0 73.6

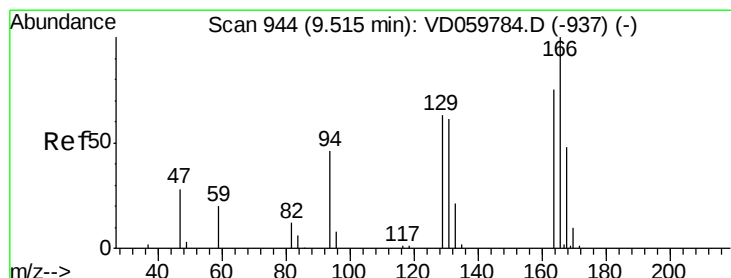
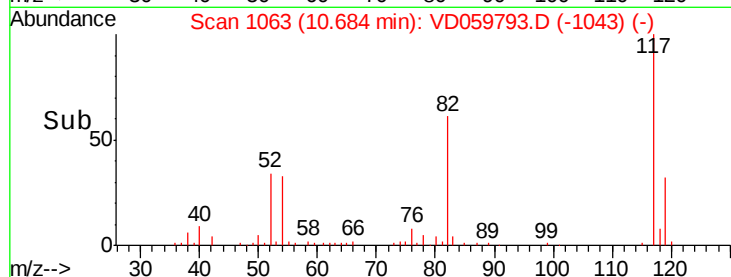
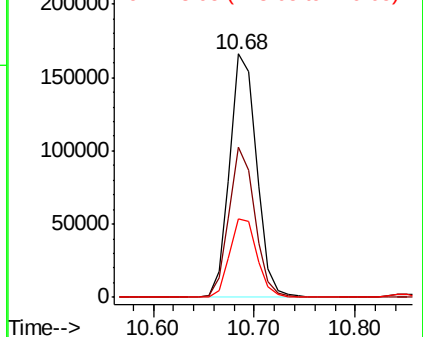
119 32.2 26.2 39.2



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 2.25 ug/l

RT: 9.51 min Scan# 944

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Tgt Ion:164 Resp: 5985

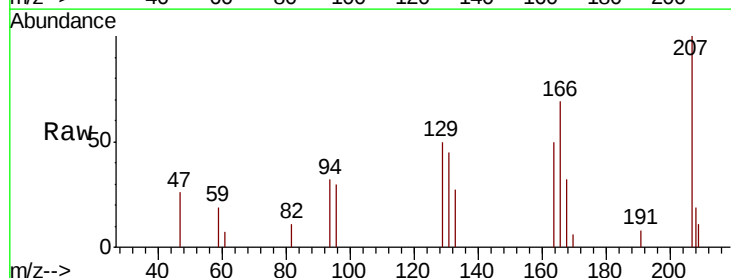
Ion Ratio Lower Upper

164 100

166 139.1 106.8 160.2

129 101.1 67.2 100.8#

131 90.6 64.7 97.1

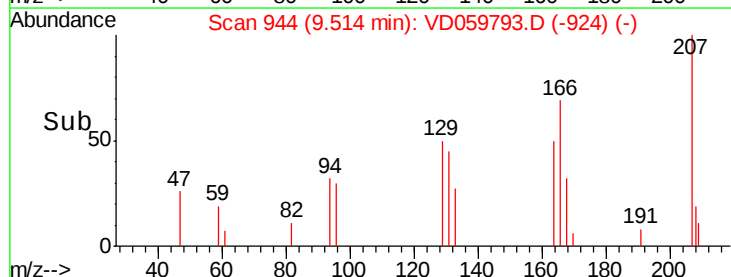
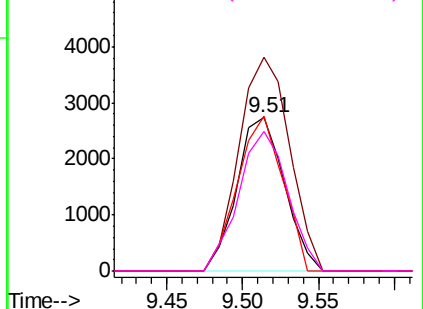


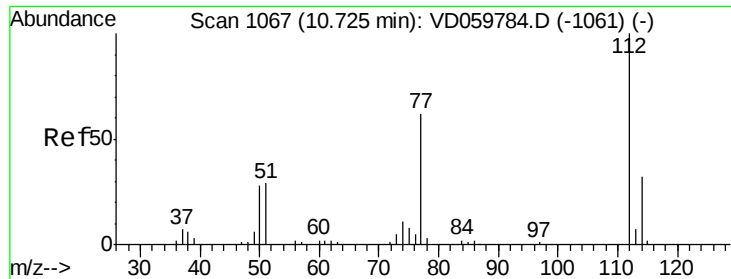
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 2.42 ug/l

RT: 10.72 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

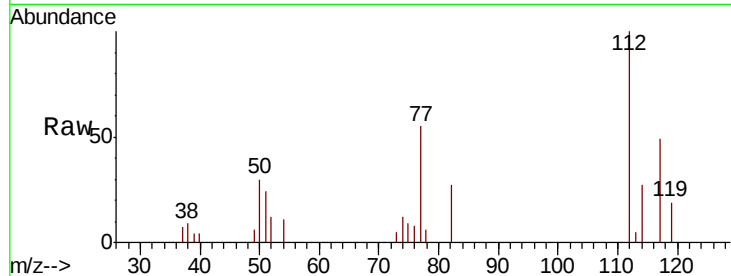
MDL-SOIL-03-QT3-2018

Tot Ion:112 Resp: 15120

Ion Ratio Lower Upper

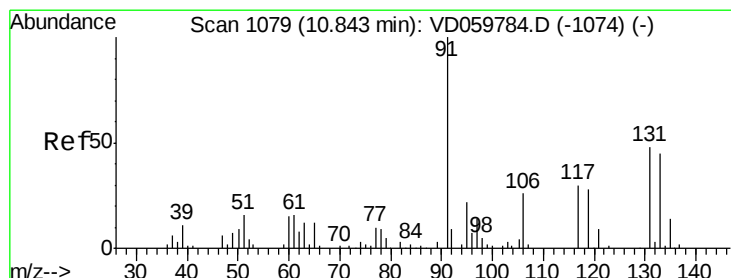
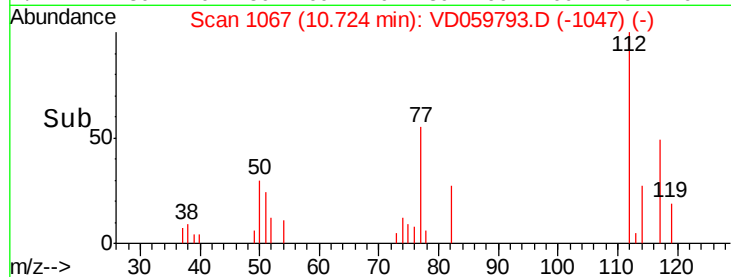
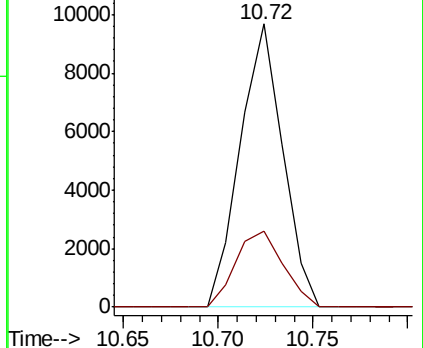
112 100

114 27.0 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.29 ug/l

RT: 10.85 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

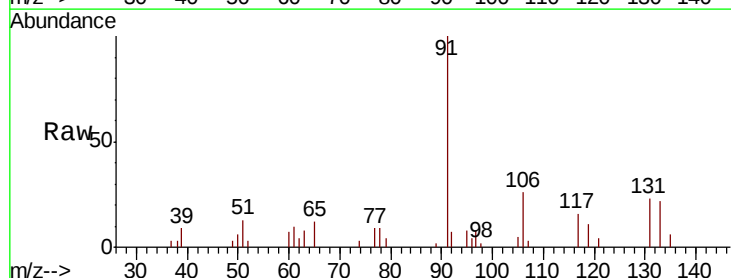
Tgt Ion:131 Resp: 5776

Ion Ratio Lower Upper

131 100

133 94.9 47.0 141.0

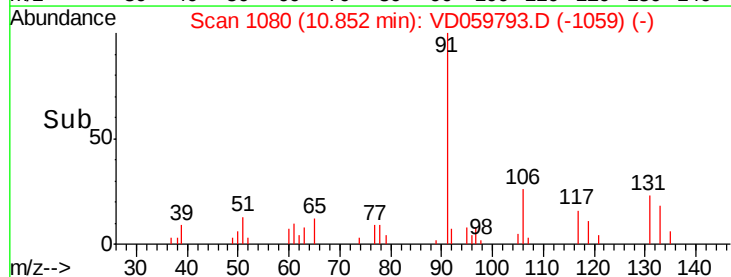
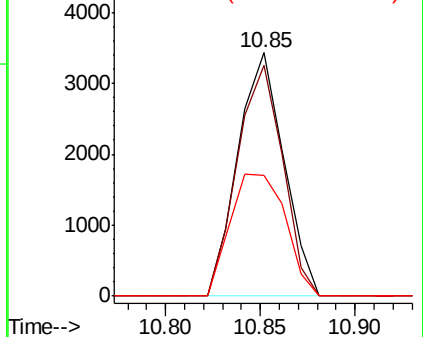
119 49.6 29.0 87.1

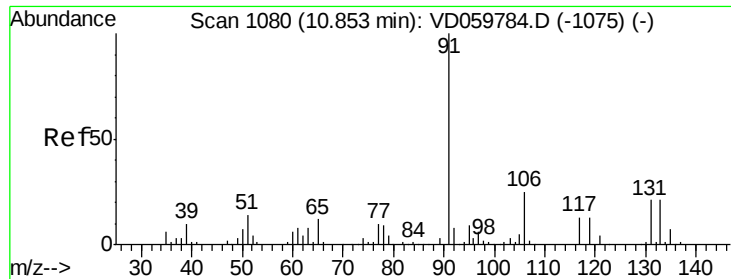


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

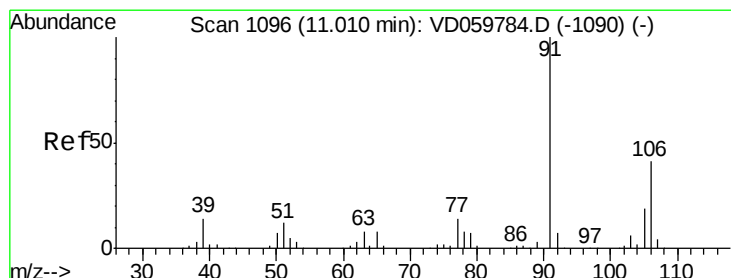
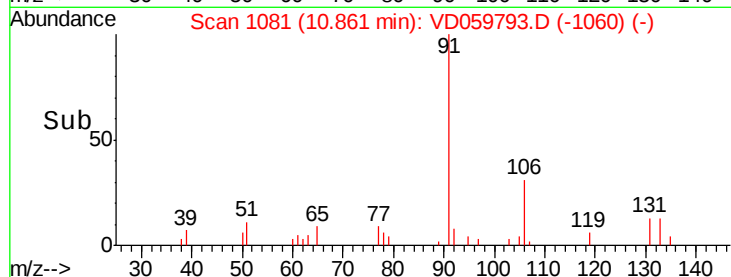
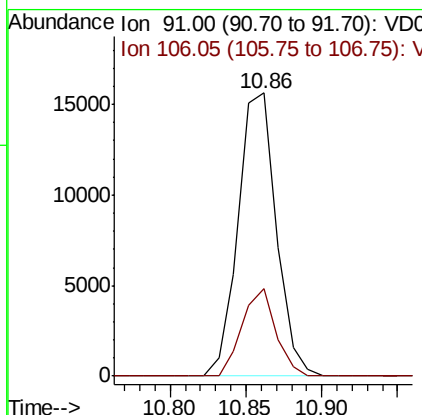
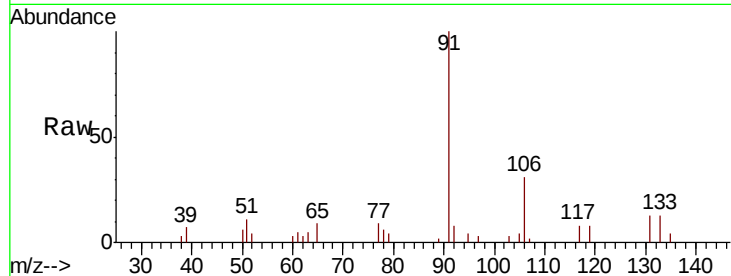




#67  
Ethyl Benzene  
Concen: 2.55 ug/l  
RT: 10.86 min Scan# 1081  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

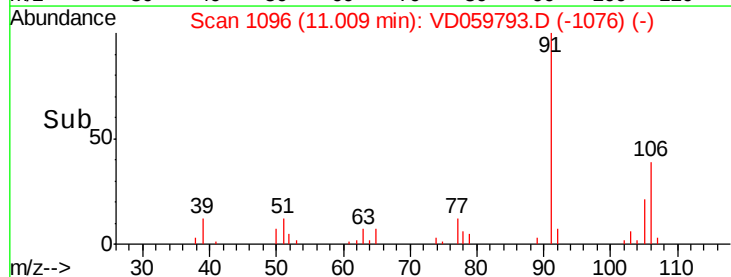
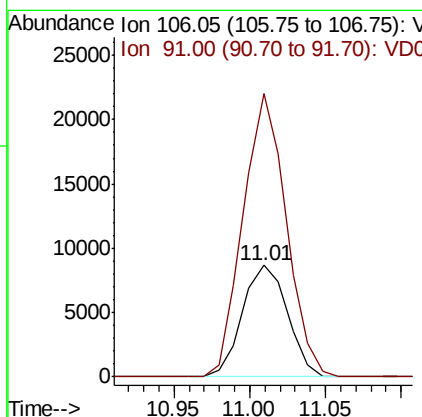
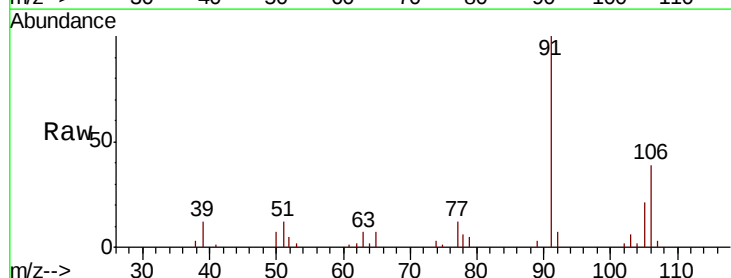
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

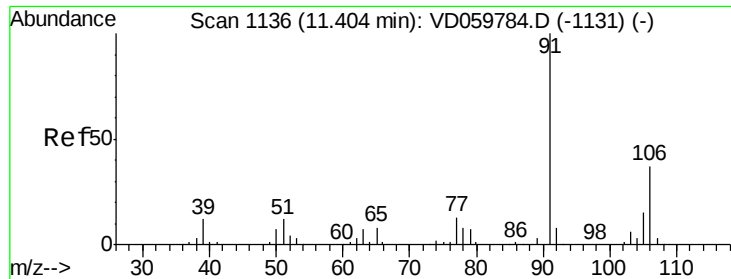
Tot Ion: 91 Resp: 27427  
Ion Ratio Lower Upper  
91 100  
106 31.0 20.1 30.1#



#68  
m/p-Xylenes  
Concen: 4.93 ug/l  
RT: 11.01 min Scan# 1096  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 106 Resp: 17987  
Ion Ratio Lower Upper  
106 100  
91 253.6 197.4 296.0

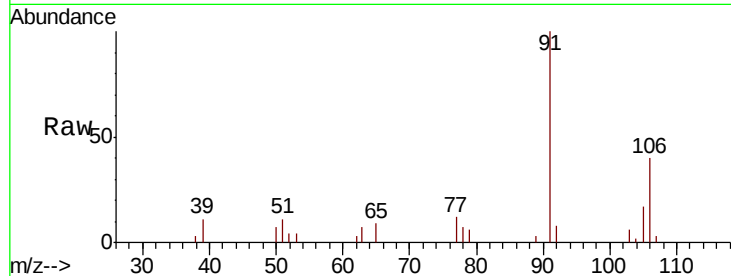




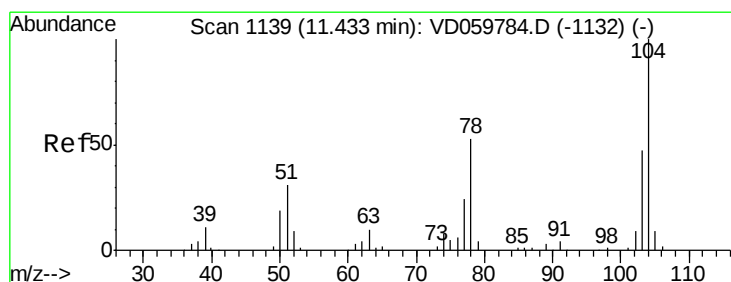
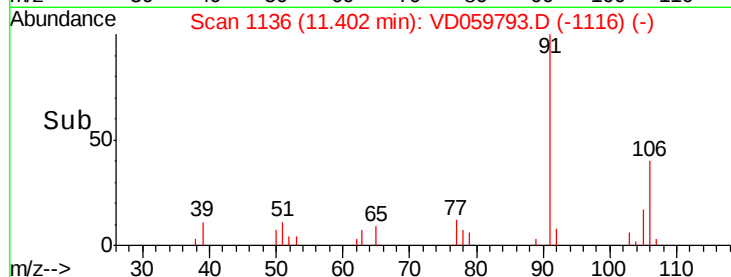
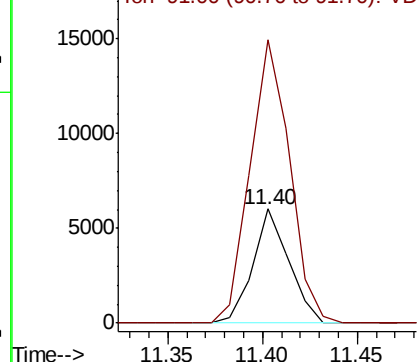
#69  
o-Xylene  
Concen: 2.26 ug/l  
RT: 11.40 min Scan# 1136  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Tot Ion:106 Resp: 7933  
Ion Ratio Lower Upper  
106 100  
91 248.7 133.7 401.1

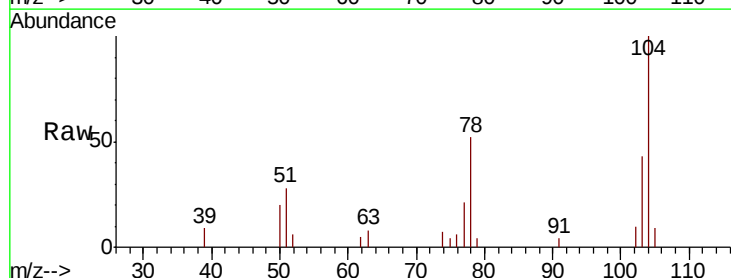


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

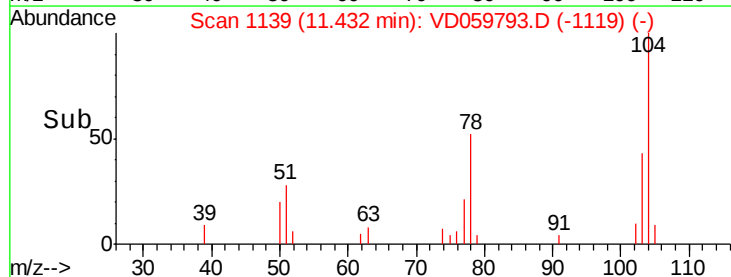
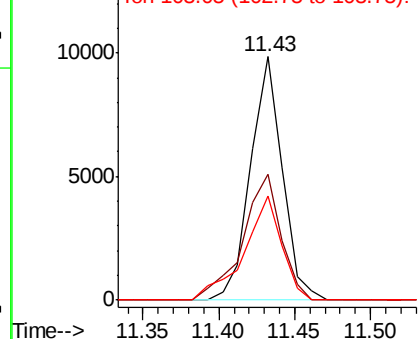


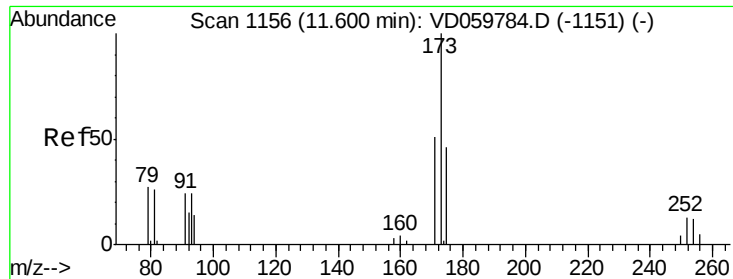
#70  
Styrene  
Concen: 2.32 ug/l  
RT: 11.43 min Scan# 1139  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion:104 Resp: 14413  
Ion Ratio Lower Upper  
104 100  
78 51.7 42.6 64.0  
103 42.5 37.8 56.6



Abundance Ion 104.05 (103.75 to 104.75): V  
Ion 77.95 (77.65 to 78.65): V  
Ion 103.05 (102.75 to 103.75): V

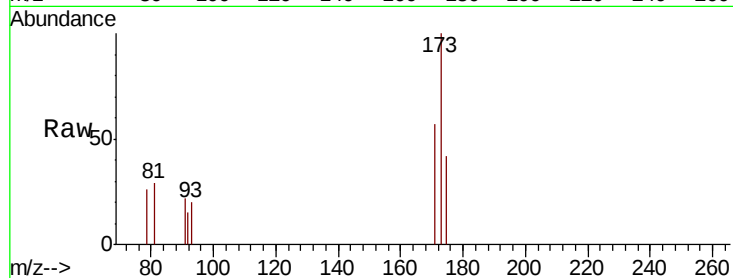




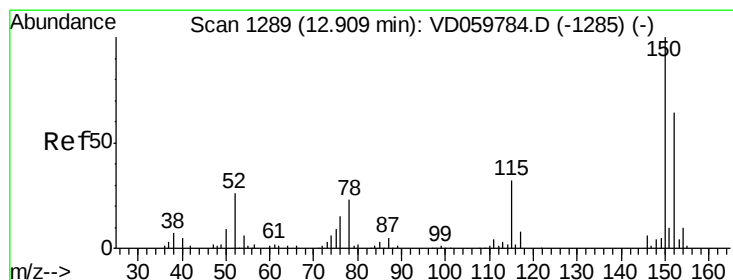
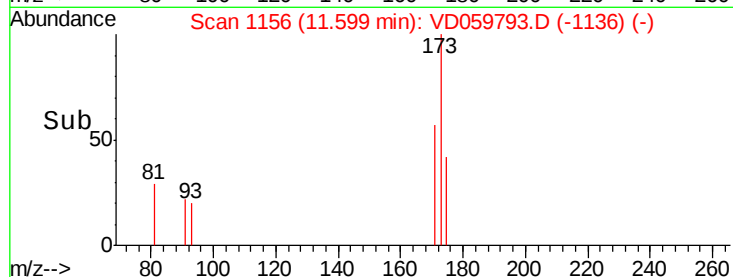
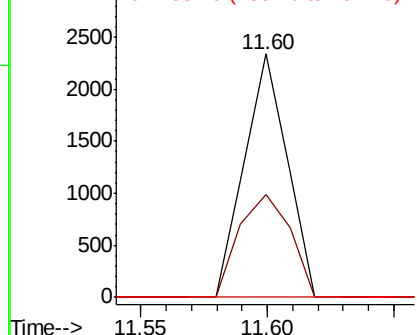
#71  
Bromoform  
Concen: 1.50 ug/l  
RT: 11.60 min Scan# 1156  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Tot Ion:173 Resp: 2754  
Ion Ratio Lower Upper  
173 100  
175 42.5 23.1 69.2  
254 0.0 9.7 14.5#

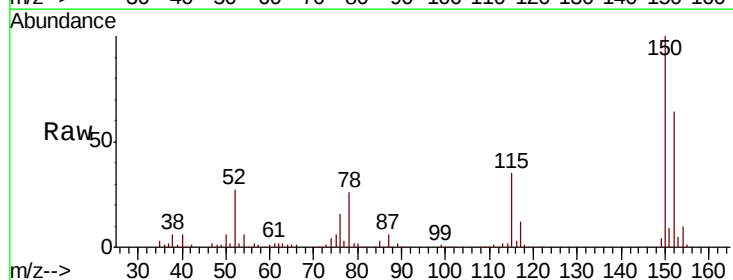


Abundance Ion 172.80 (172.50 to 173.50): V  
Ion 174.80 (174.50 to 175.50): V  
Ion 253.70 (253.40 to 254.40): V

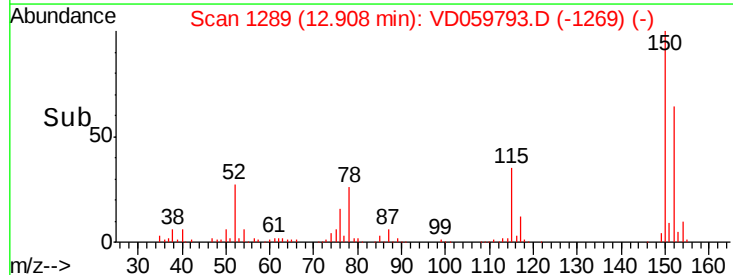
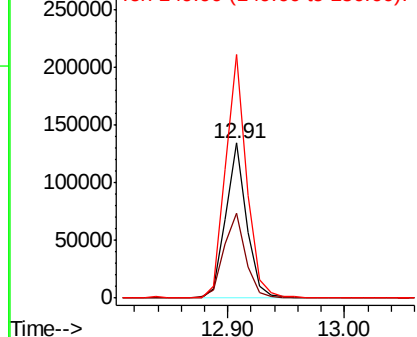


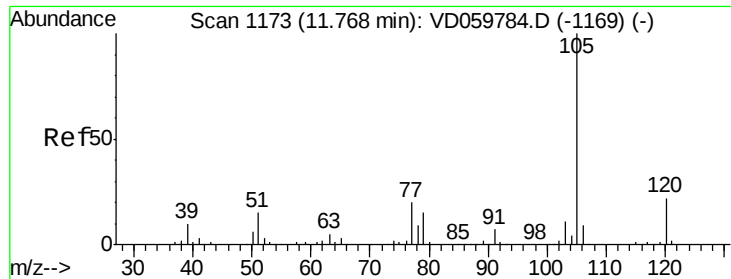
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.91 min Scan# 1289  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion:152 Resp: 167227  
Ion Ratio Lower Upper  
152 100  
115 55.0 27.2 81.5  
150 157.0 0.0 312.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.40 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

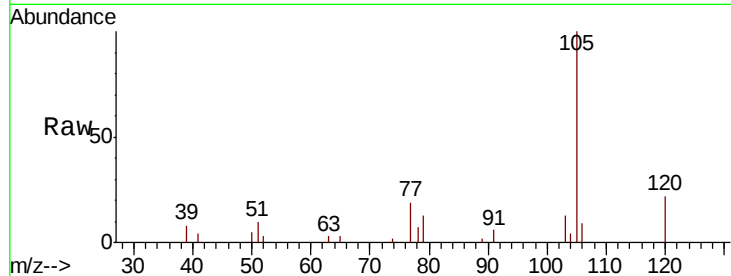
MDL-SOIL-03-QT3-2018

Tot Ion:105 Resp: 25384

Ion Ratio Lower Upper

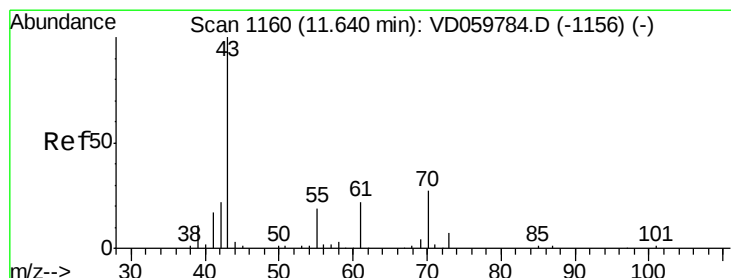
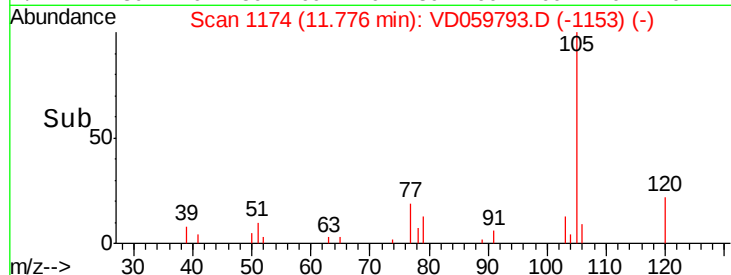
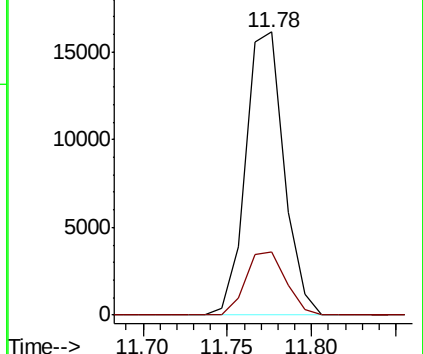
105 100

120 22.5 10.9 32.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 1.81 ug/l

RT: 11.65 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Tgt Ion: 43 Resp: 5888

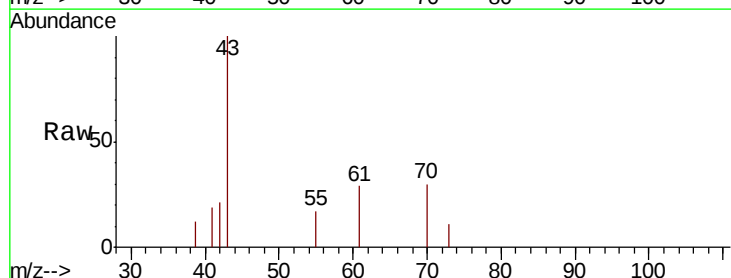
Ion Ratio Lower Upper

43 100

70 29.9 21.8 32.6

55 17.5 15.1 22.7

61 29.0 18.0 27.0#

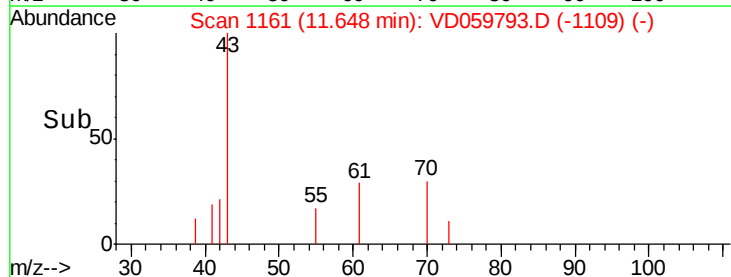
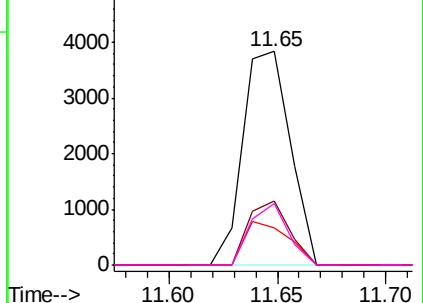


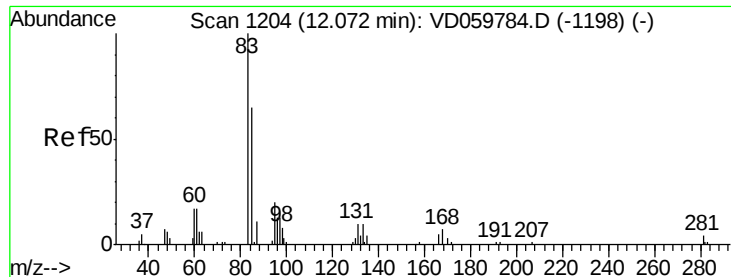
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.36 ug/l

RT: 12.07 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

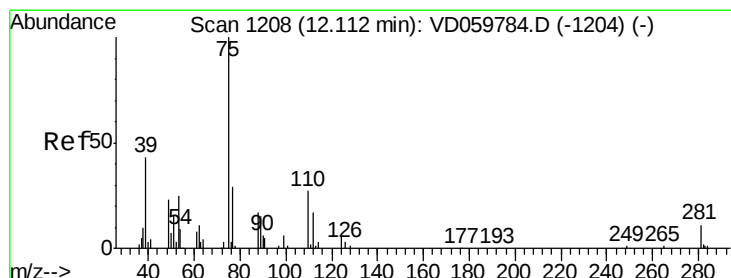
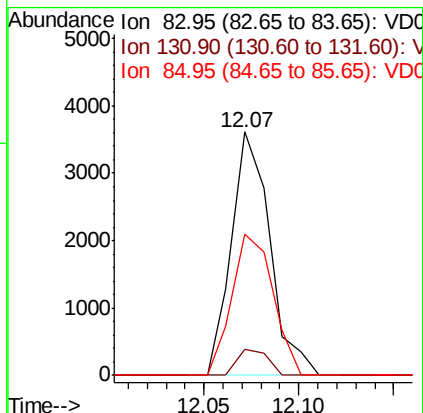
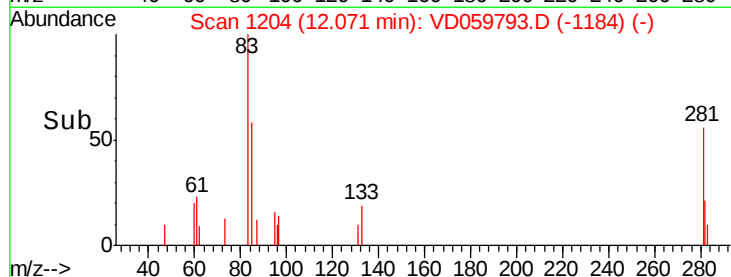
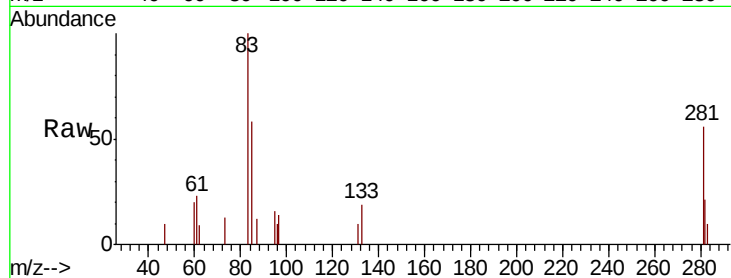
Tot Ion: 83 Resp: 5079

Ion Ratio Lower Upper

83 100

131 10.5 5.0 15.0

85 57.9 32.8 98.3



#76

1,2,3-Trichloropropane

Concen: 2.46 ug/l

RT: 12.11 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VD059793.D

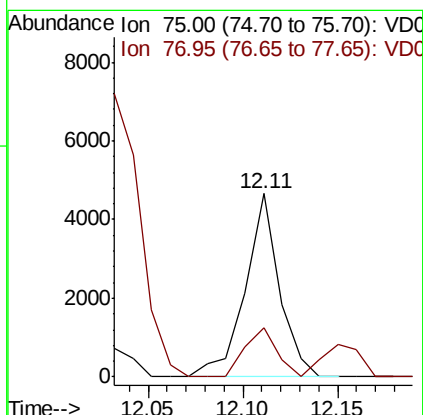
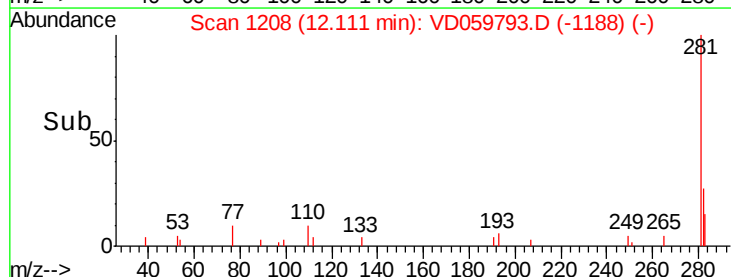
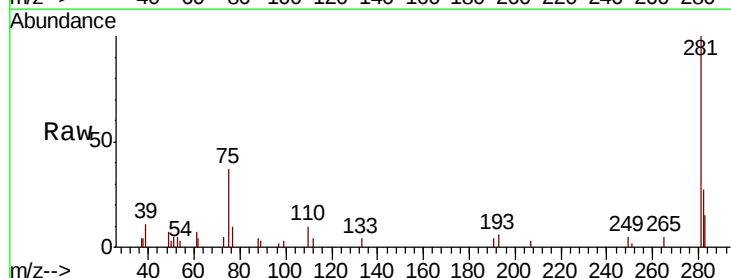
Acq: 15 Aug 2018 6:02

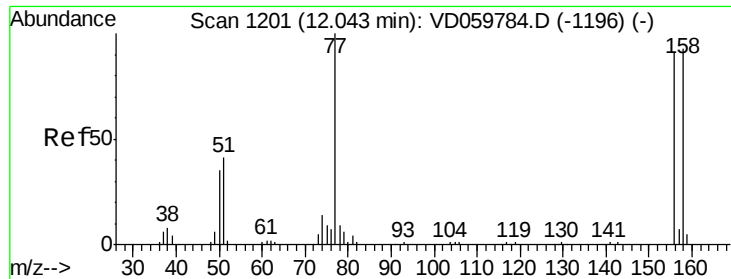
Tgt Ion: 75 Resp: 5836

Ion Ratio Lower Upper

75 100

77 27.0 16.2 48.6

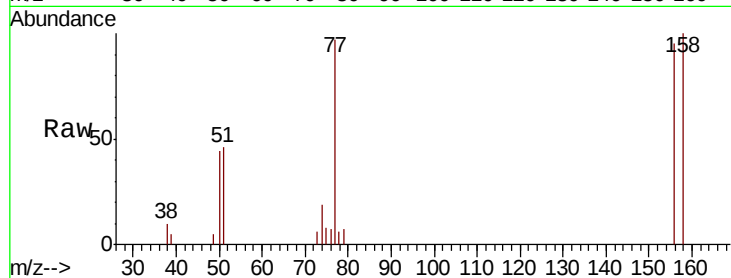




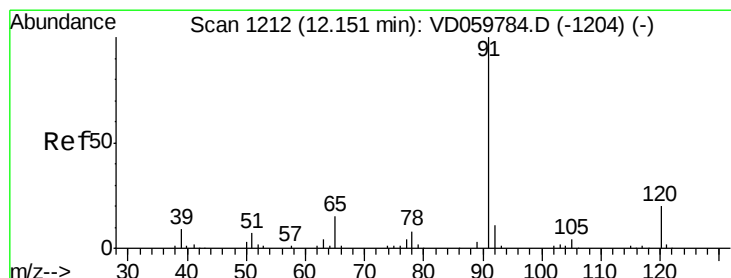
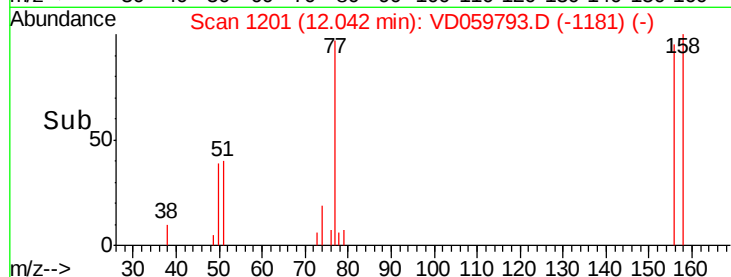
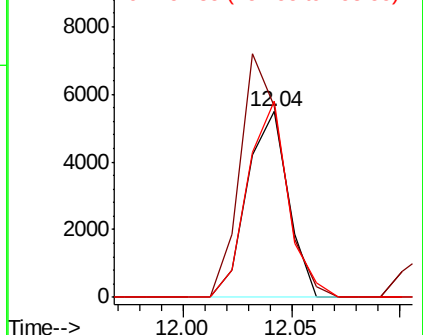
#77  
Bromobenzene  
Concen: 2.41 ug/l  
RT: 12.04 min Scan# 1201  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Tot Ion:156 Resp: 7307  
Ion Ratio Lower Upper  
156 100  
77 102.8 54.9 164.8  
158 105.6 51.2 153.6

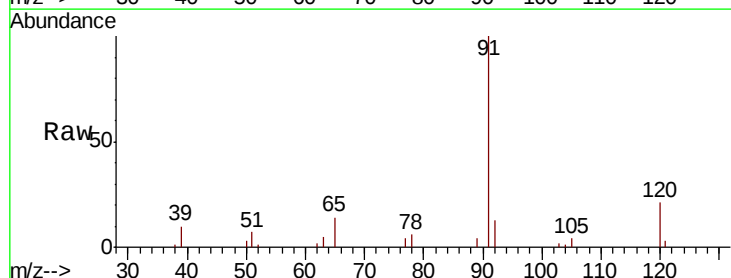


Abundance Ion 155.90 (155.60 to 156.60): V  
Ion 76.95 (76.65 to 77.65): V  
Ion 157.85 (157.55 to 158.55): V

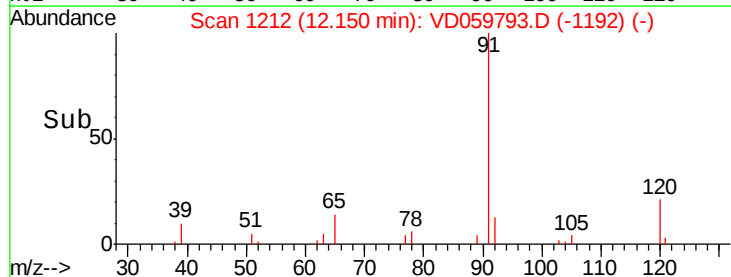
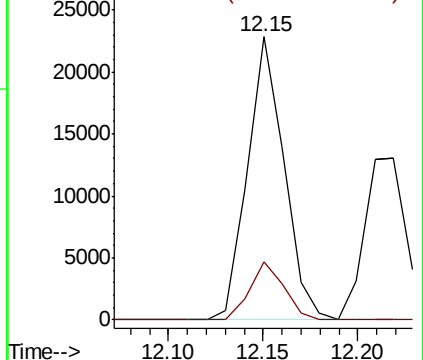


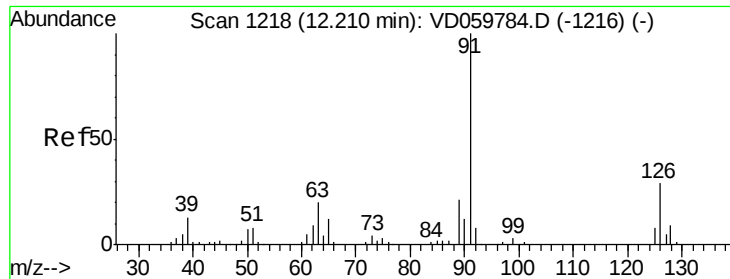
#78  
n-propylbenzene  
Concen: 2.31 ug/l  
RT: 12.15 min Scan# 1212  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 91 Resp: 30472  
Ion Ratio Lower Upper  
91 100  
120 20.5 9.8 29.4



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 120.05 (119.75 to 120.75): V

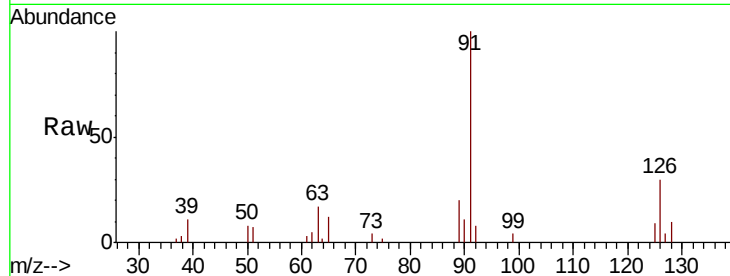




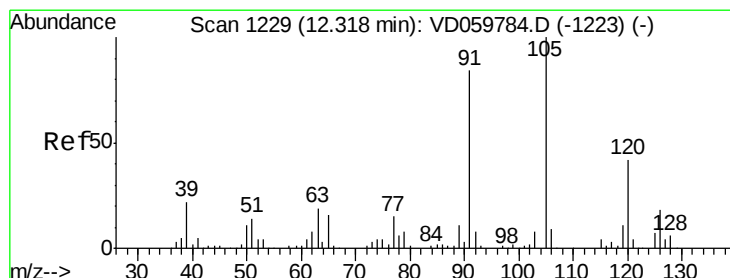
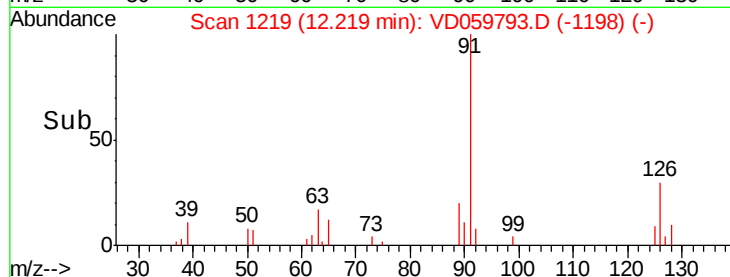
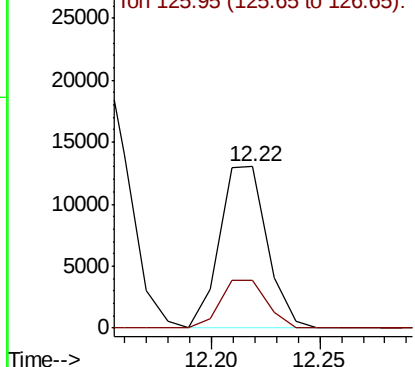
#79  
2-Chlorotoluene  
Concen: 2.50 ug/l  
RT: 12.22 min Scan# 1219  
Delta R.T. 0.01 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Tot Ion: 91 Resp: 19882  
Ion Ratio Lower Upper  
91 100  
126 29.9 14.0 41.9

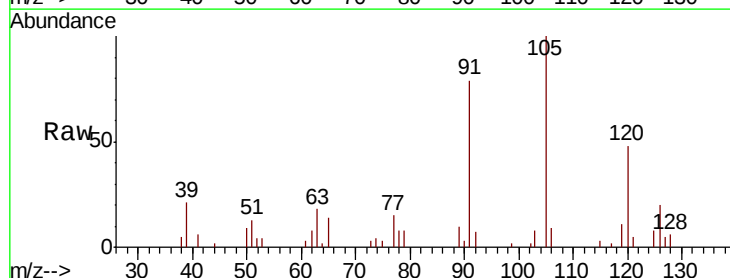


Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 125.95 (125.65 to 126.65): V

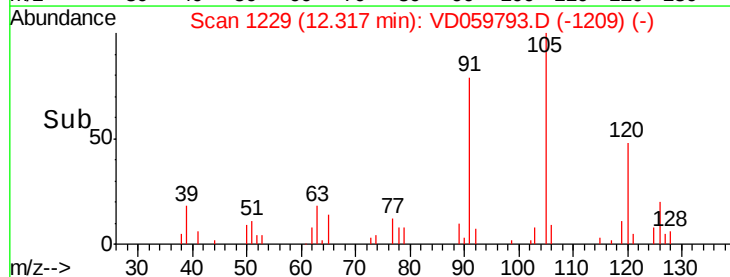
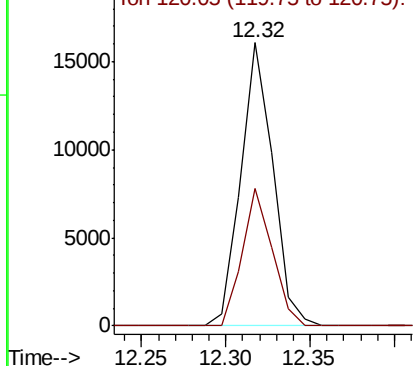


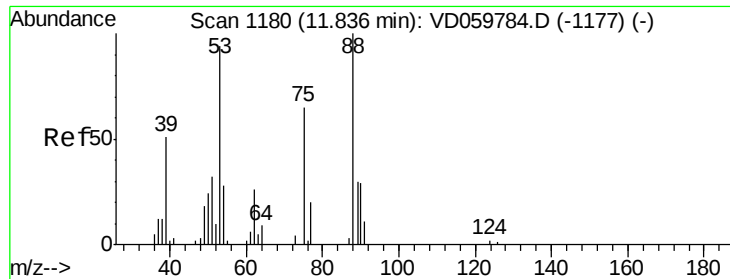
#80  
1,3,5-Trimethylbenzene  
Concen: 2.50 ug/l  
RT: 12.32 min Scan# 1229  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 105 Resp: 21229  
Ion Ratio Lower Upper  
105 100  
120 48.4 20.8 62.5



Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 157.55 ug/l

RT: 11.92 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD059793.D

Acq: 15 Aug 2018 6:02

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

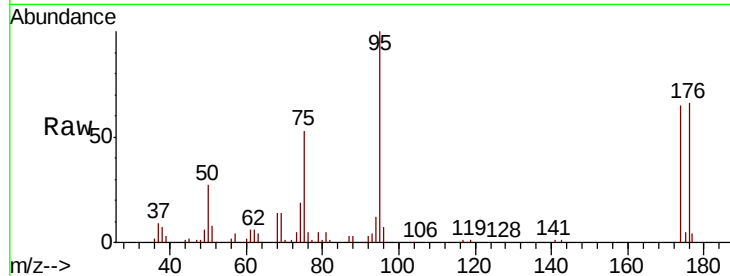
Tot Ion: 75 Resp: 87456

Ion Ratio Lower Upper

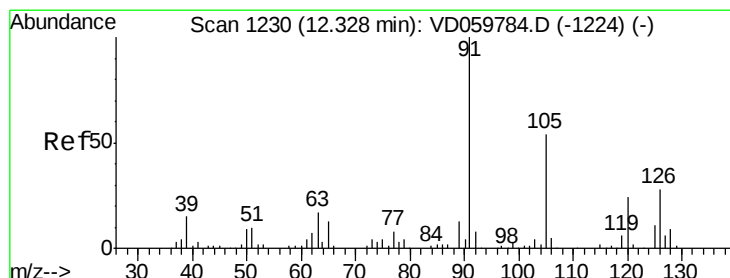
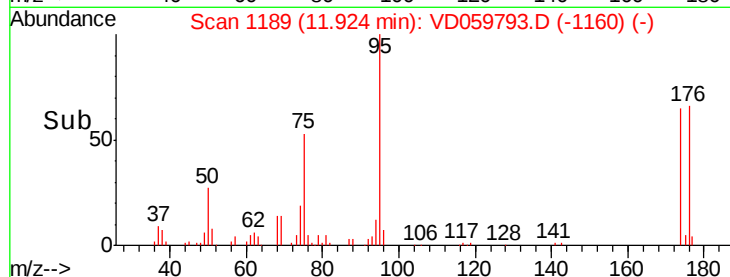
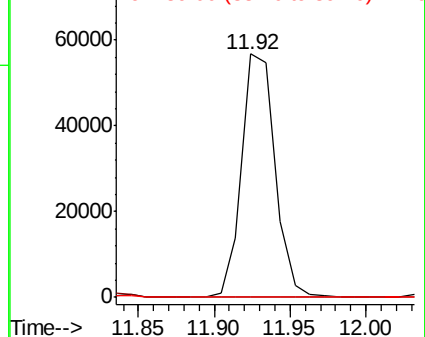
75 100

53 0.0 116.2 174.2#

89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 2.45 ug/l

RT: 12.33 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VD059793.D

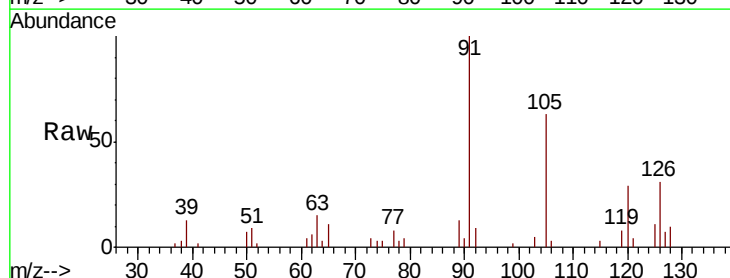
Acq: 15 Aug 2018 6:02

Tgt Ion: 91 Resp: 22179

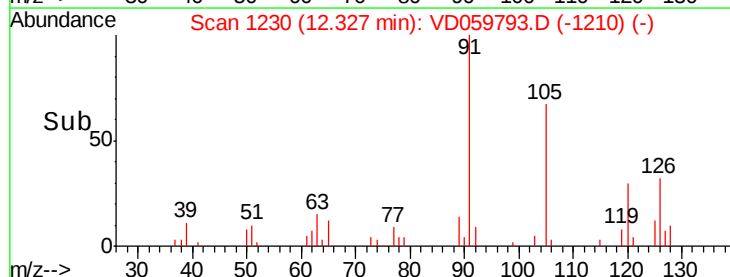
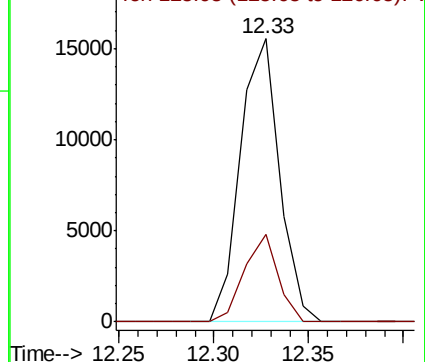
Ion Ratio Lower Upper

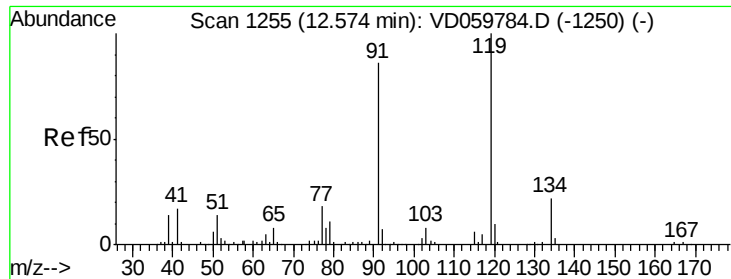
91 100

126 30.8 13.9 41.7



Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 125.95 (125.65 to 126.65): V

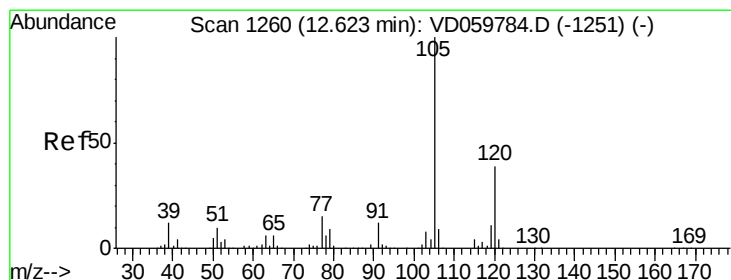
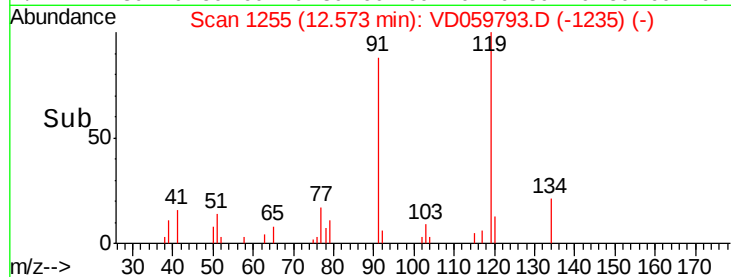
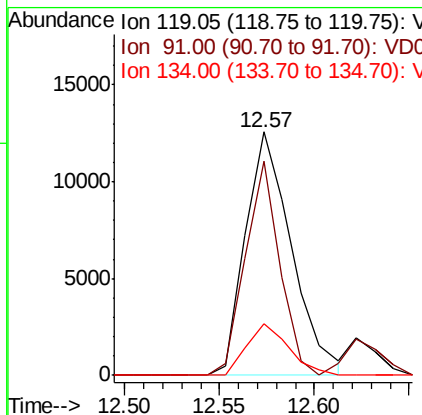
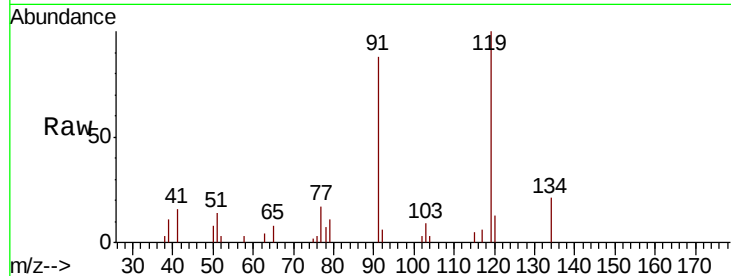




#83  
 tert-Butylbenzene  
 Concen: 2.26 ug/l  
 RT: 12.57 min Scan# 1255  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

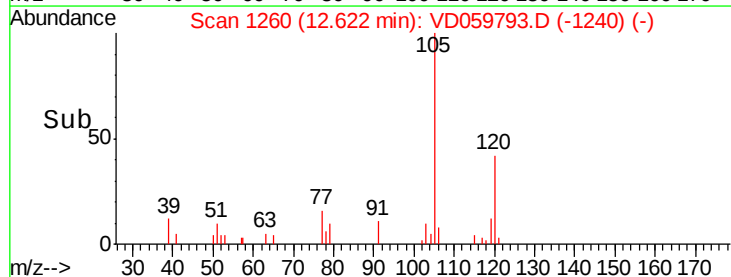
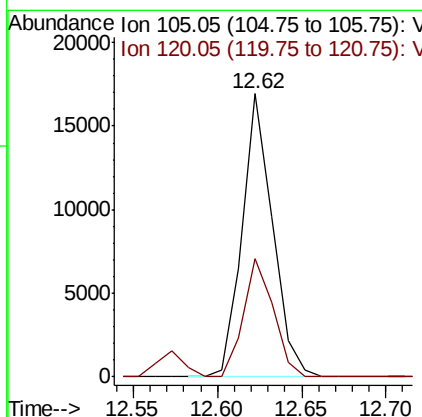
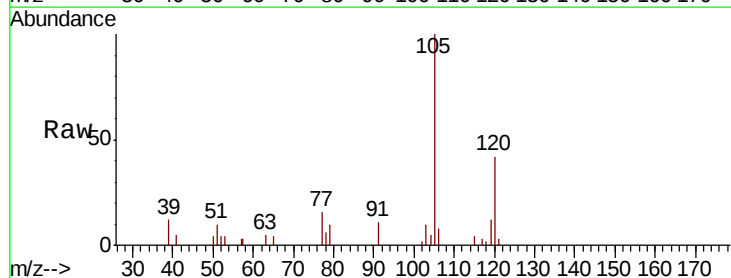
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

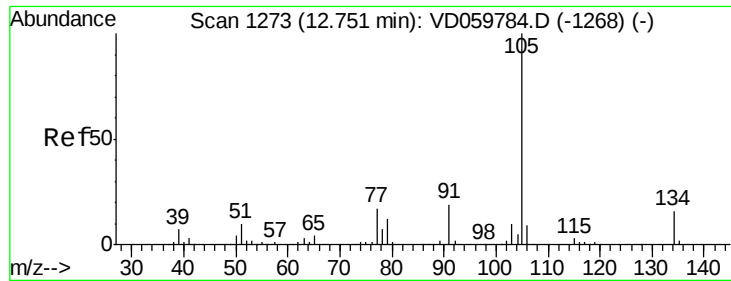
Tot Ion:119 Resp: 21172  
 Ion Ratio Lower Upper  
 119 100  
 91 88.0 43.1 129.3  
 134 21.4 11.2 33.5



#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.33 ug/l  
 RT: 12.62 min Scan# 1260  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Tgt Ion:105 Resp: 21266  
 Ion Ratio Lower Upper  
 105 100  
 120 41.7 19.6 58.8

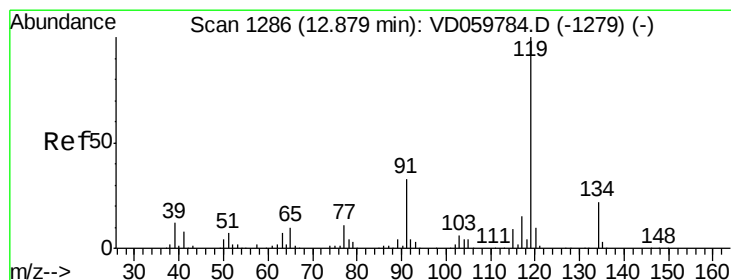
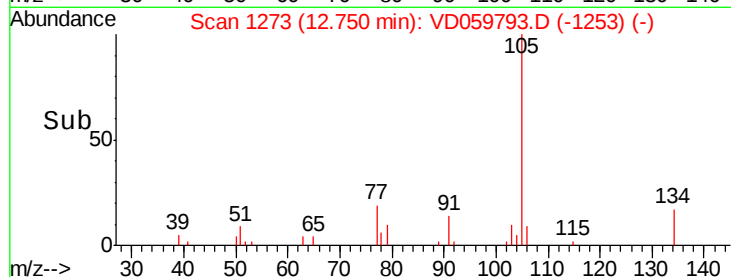
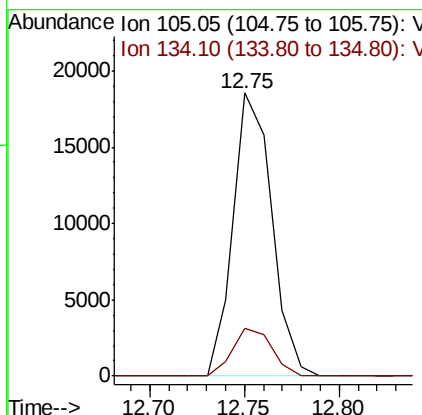
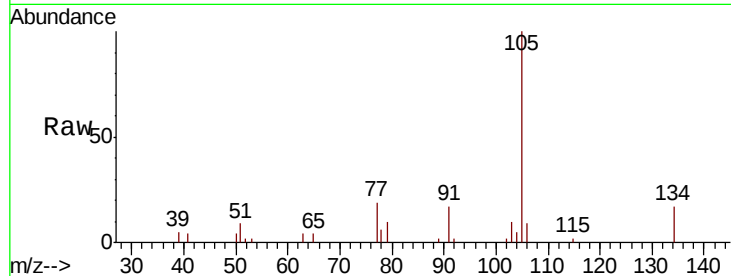




#85  
 sec-Butylbenzene  
 Concen: 2.40 ug/l  
 RT: 12.75 min Scan# 1273  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

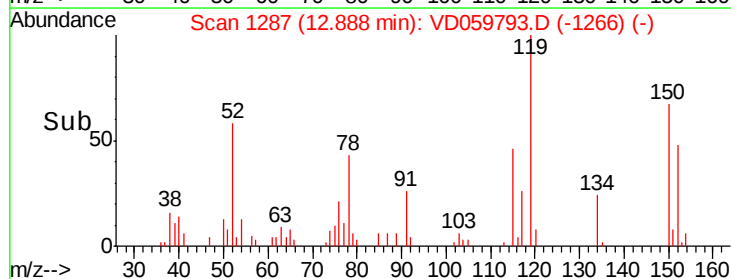
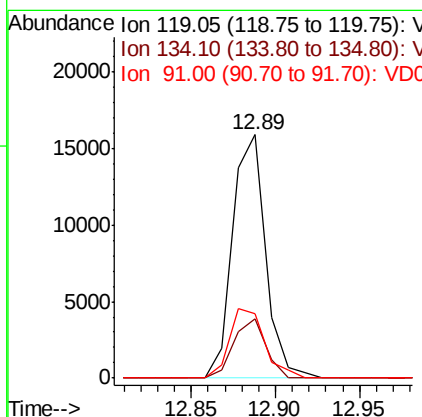
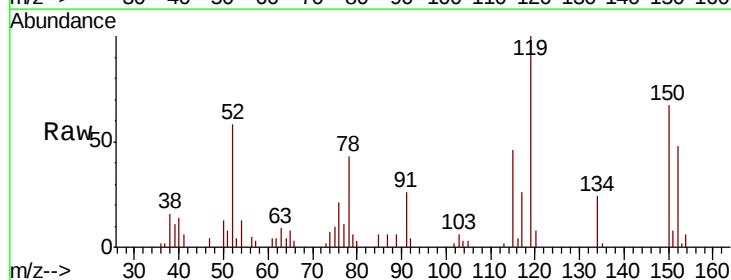
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

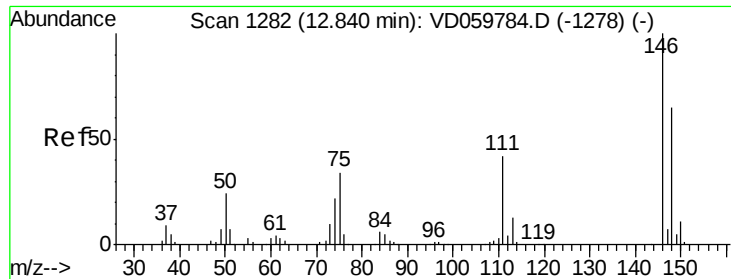
Tot Ion:105 Resp: 26108  
 Ion Ratio Lower Upper  
 105 100  
 134 17.1 8.2 24.4



#86  
 p-Isopropyltoluene  
 Concen: 2.38 ug/l  
 RT: 12.89 min Scan# 1287  
 Delta R.T. 0.01 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Tgt Ion:119 Resp: 21638  
 Ion Ratio Lower Upper  
 119 100  
 134 24.1 10.9 32.6  
 91 26.4 16.4 49.4

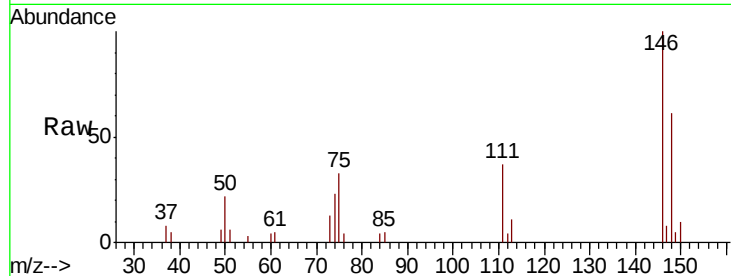




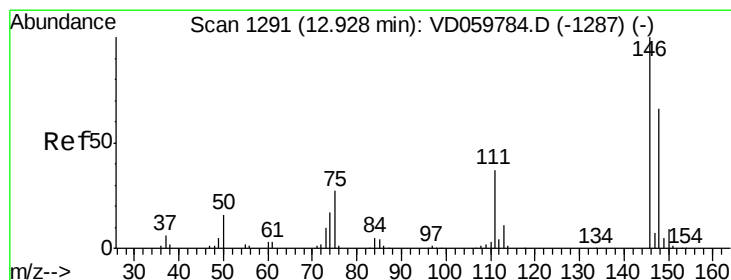
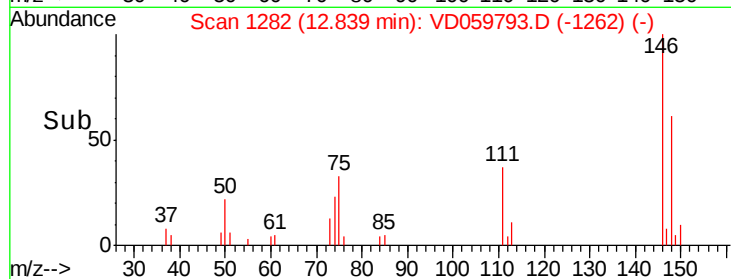
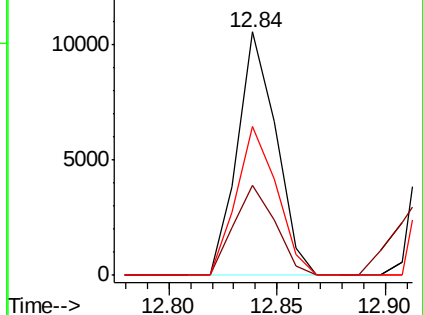
#87  
 1,3-Dichlorobenzene  
 Concen: 2.43 ug/l  
 RT: 12.84 min Scan# 1282  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.2  | 20.9  | 62.8  |
| 148     | 61.2  | 32.6  | 97.8  |

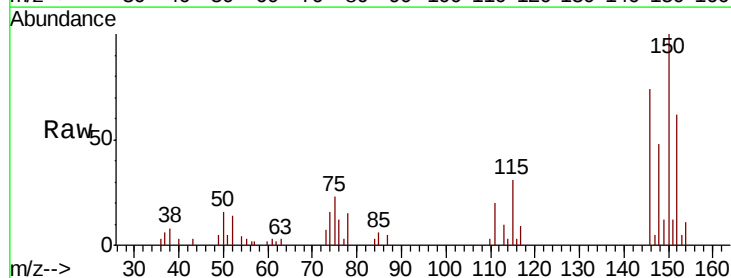


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

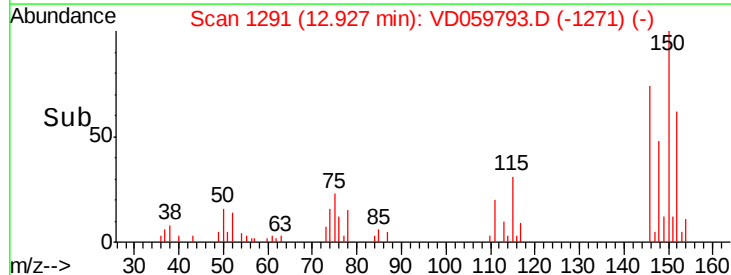
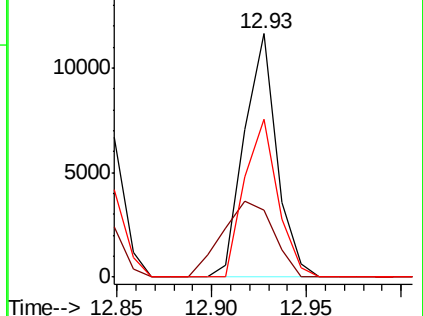


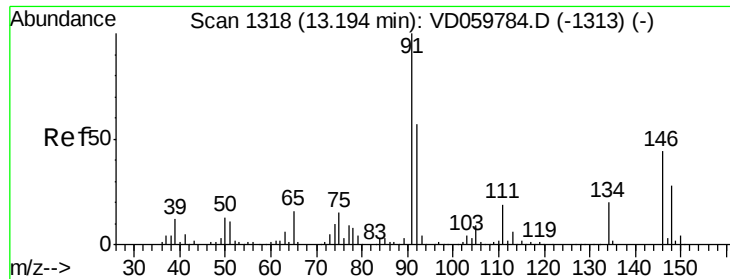
#88  
 1,4-Dichlorobenzene  
 Concen: 2.58 ug/l  
 RT: 12.93 min Scan# 1291  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 27.6  | 18.6  | 55.6  |
| 148     | 65.0  | 33.0  | 99.0  |



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

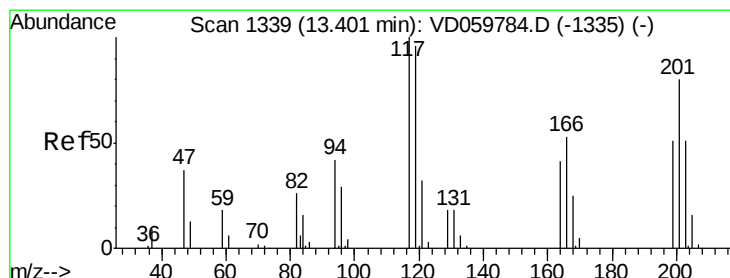
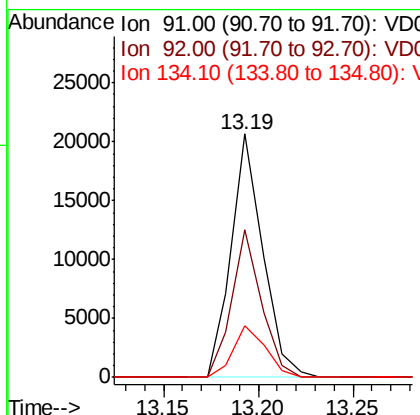
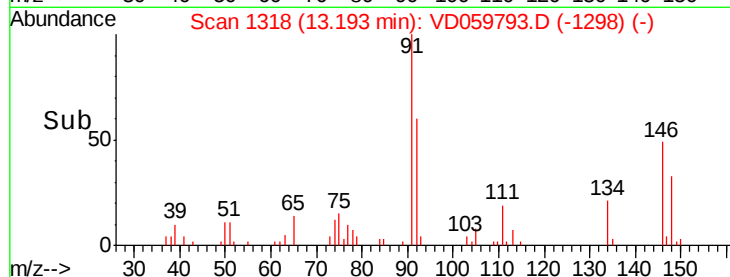
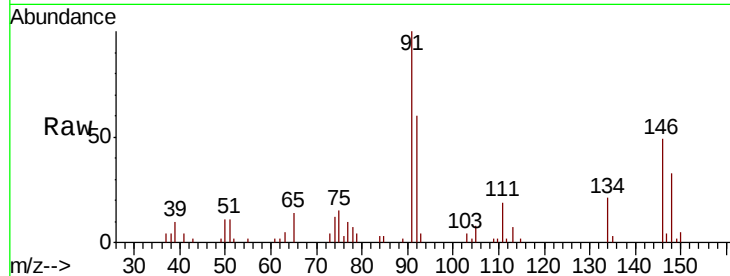




#89  
n-Butylbenzene  
Concen: 2.59 ug/l  
RT: 13.19 min Scan# 1318  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

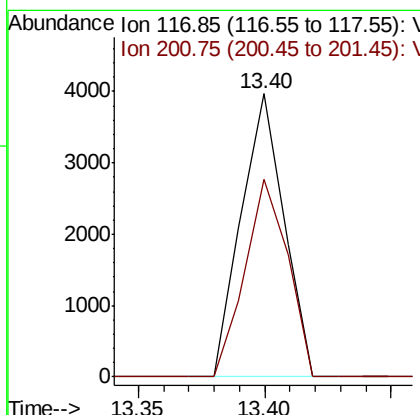
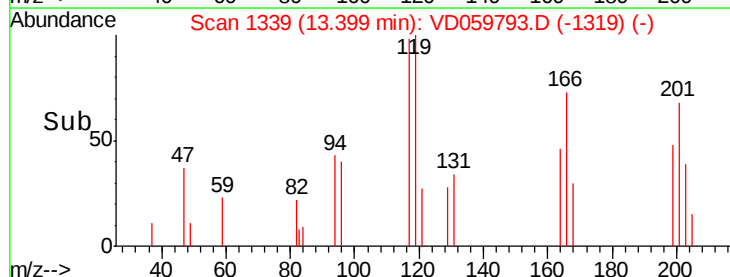
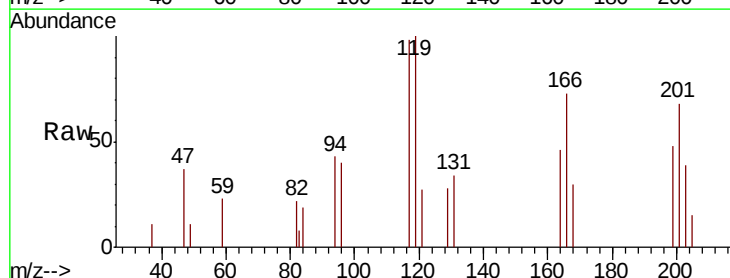
Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

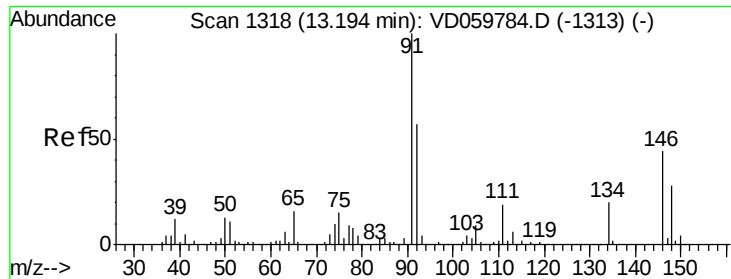
Tot Ion: 91 Resp: 23834  
Ion Ratio Lower Upper  
91 100  
92 60.4 28.4 85.3  
134 21.1 10.2 30.4



#90  
Hexachloroethane  
Concen: 2.05 ug/l  
RT: 13.40 min Scan# 1339  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion: 117 Resp: 4673  
Ion Ratio Lower Upper  
117 100  
201 69.8 39.9 119.7

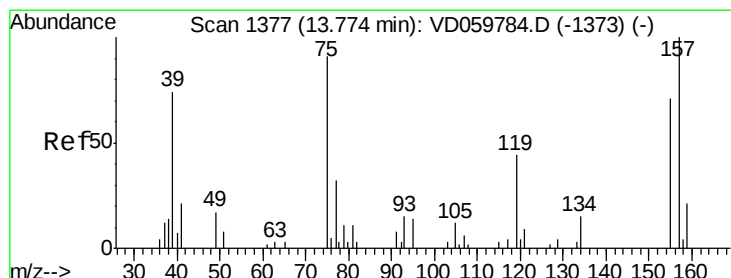
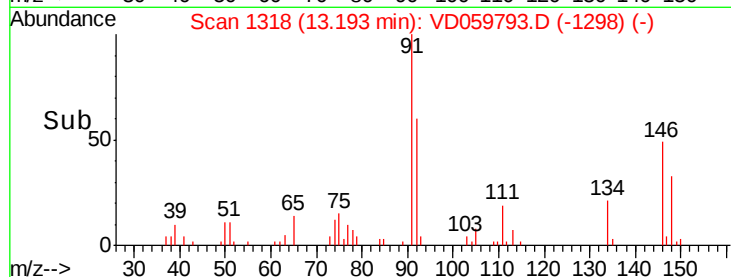
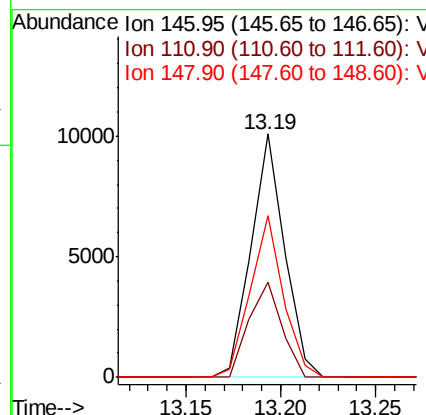
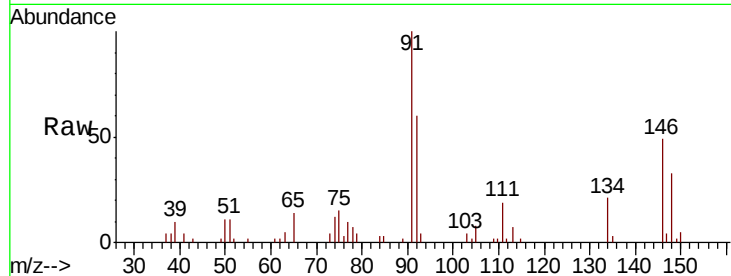




#91  
 1,2-Dichlorobenzene  
 Concen: 2.78 ug/l  
 RT: 13.19 min Scan# 1318  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

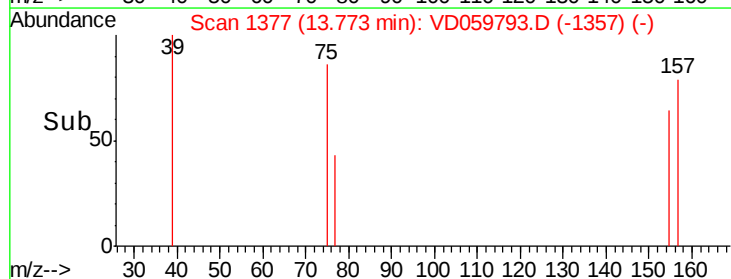
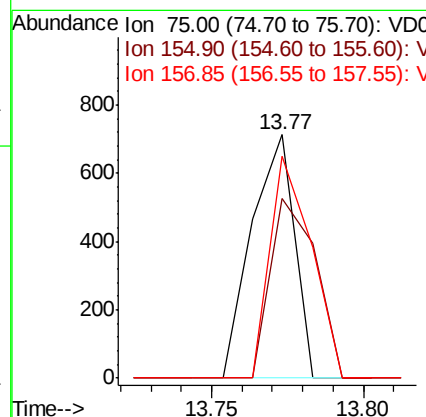
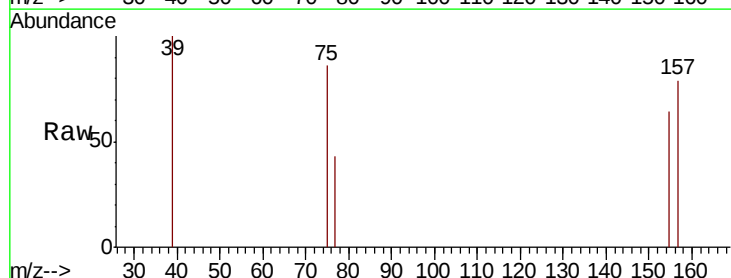
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

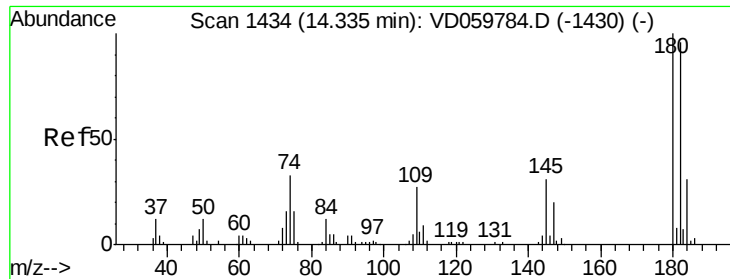
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.8  | 21.1  | 63.1  |
| 148     | 66.6  | 32.0  | 96.2  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.81 ug/l  
 RT: 13.77 min Scan# 1377  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 73.6  | 39.0  | 117.0 |
| 157     | 91.0  | 54.8  | 164.3 |

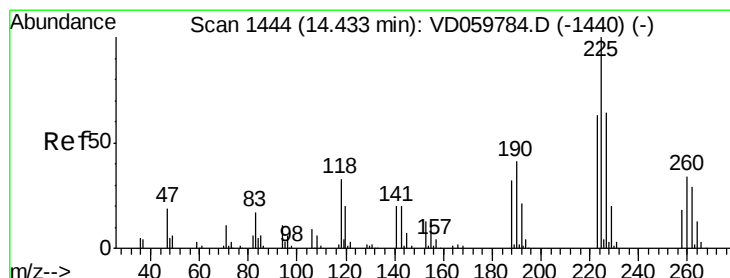
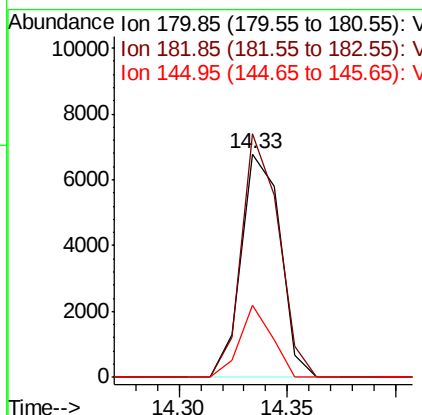
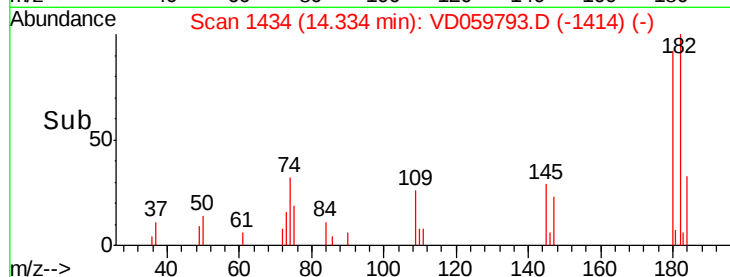
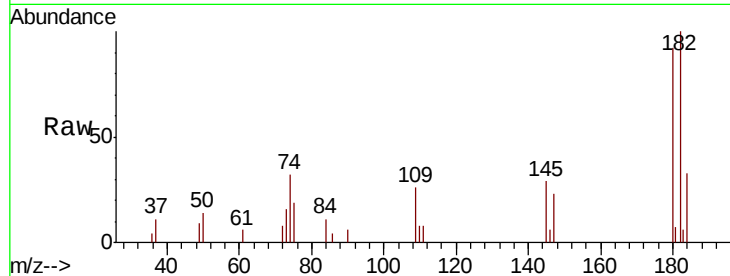




#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.31 ug/l  
 RT: 14.33 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

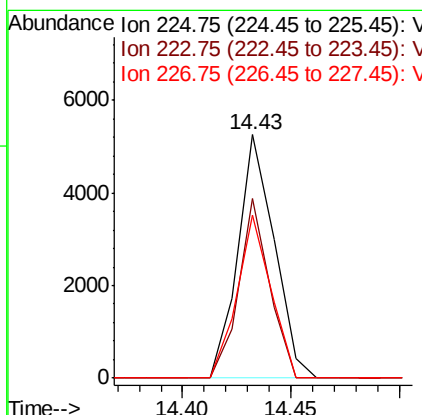
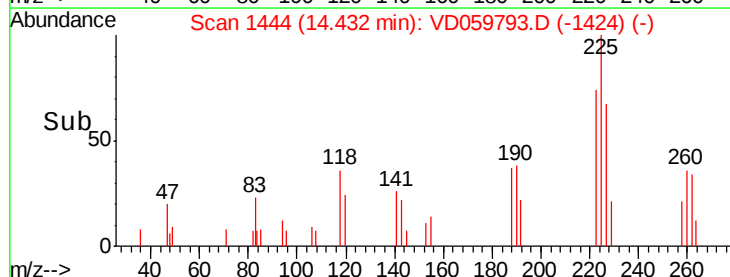
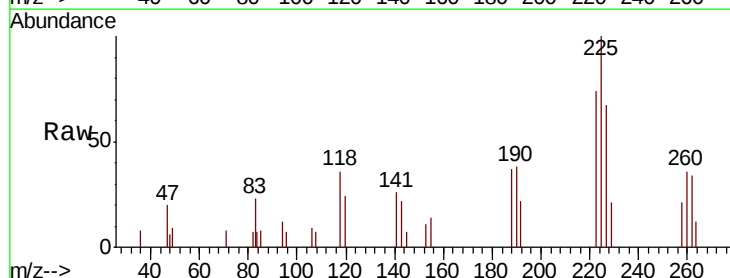
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2018

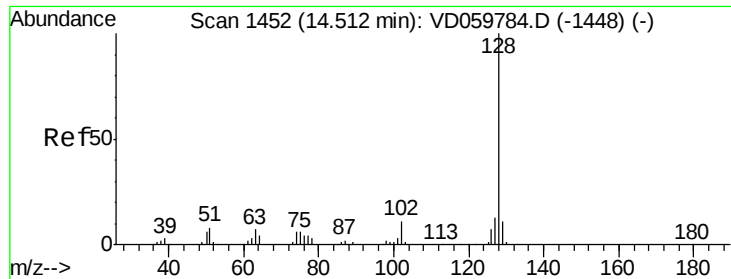
Tot Ion:180 Resp: 8602  
 Ion Ratio Lower Upper  
 180 100  
 182 108.8 48.0 144.0  
 145 32.1 15.5 46.5



#94  
 Hexachlorobutadiene  
 Concen: 2.23 ug/l  
 RT: 14.43 min Scan# 1444  
 Delta R.T. -0.00 min  
 Lab File: VD059793.D  
 Acq: 15 Aug 2018 6:02

Tgt Ion:225 Resp: 6148  
 Ion Ratio Lower Upper  
 225 100  
 223 73.7 31.4 94.2  
 227 66.9 32.1 96.5

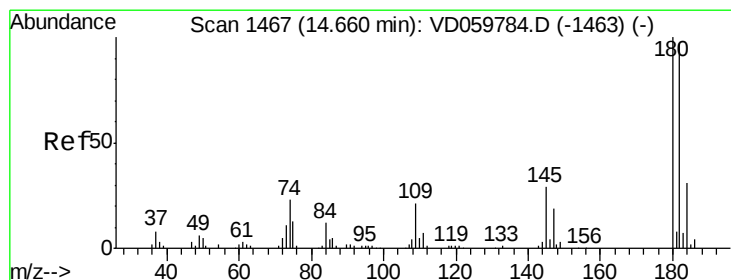
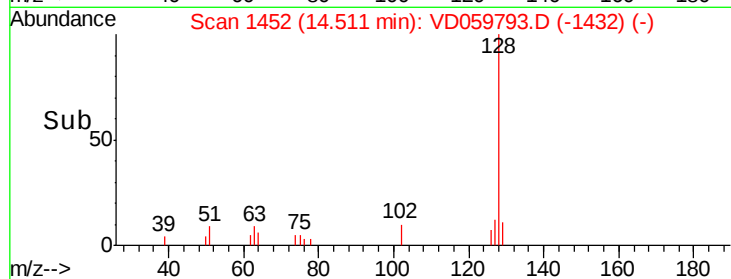
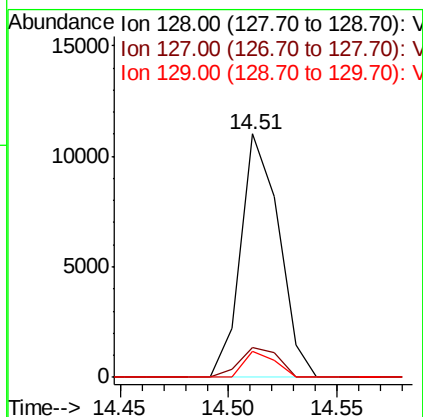
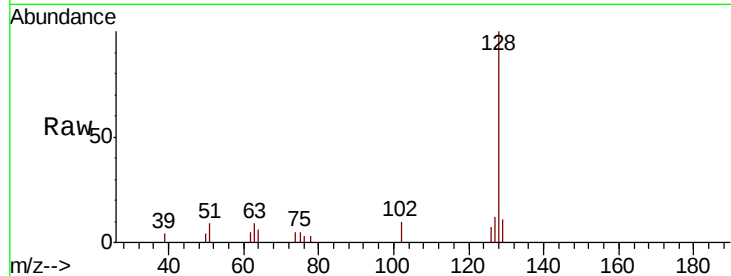




#95  
Naphthalene  
Concen: 2.36 ug/l  
RT: 14.51 min Scan# 1452  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT3-2018

Tot Ion:128 Resp: 13482  
Ion Ratio Lower Upper  
128 100  
127 12.3 10.3 15.5  
129 10.9 9.1 13.7



#96  
1,2,3-Trichlorobenzene  
Concen: 2.41 ug/l  
RT: 14.66 min Scan# 1467  
Delta R.T. -0.00 min  
Lab File: VD059793.D  
Acq: 15 Aug 2018 6:02

Tgt Ion:180 Resp: 7929  
Ion Ratio Lower Upper  
180 100  
182 86.7 48.5 145.5  
145 31.5 14.3 42.9

