

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\  
 Data File : VD059894.D  
 Acq On : 23 Aug 2018 18:01  
 Operator : JC/SY  
 Sample : J4559-11MSD  
 Misc : 5.04g/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

Manual Integrations  
 APPROVED

MMDadoda  
 8/24/2018 3:09:36 PM

Quant Time: Aug 24 07:05:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 52350    | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 7.43  | 114  | 104935   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.28 | 117  | 79742    | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 29760    | 50.00 | ug/l  | -0.01    |

## System Monitoring Compounds

|                           |        |     |          |        |         |       |
|---------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 6.77   | 65  | 56452    | 127.94 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 255.88% |       |
| 35) Dibromofluoromethane  | 6.31   | 113 | 50131    | 60.93  | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 121.86% |       |
| 50) Toluene-d8            | 9.45   | 98  | 99006    | 43.36  | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 86.72%  |       |
| 62) 4-Bromofluorobenzene  | 12.42  | 95  | 37400    | 40.33  | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 80.66%  |       |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85  | 11801  | 25.22   | ug/l   | 89     |
| 3) Chloromethane              | 1.73 | 50  | 27958  | 65.95   | ug/l   | 91     |
| 4) Vinyl Chloride             | 1.83 | 62  | 13313  | 40.05   | ug/l   | 95     |
| 5) Bromomethane               | 2.14 | 94  | 9410   | 163.97  | ug/l # | 73     |
| 6) Chloroethane               | 2.24 | 64  | 9385   | Below   | Cal    | 100    |
| 7) Trichlorofluoromethane     | 2.50 | 101 | 11816  | 30.73   | ug/l   | 94     |
| 8) Diethyl Ether              | 2.81 | 74  | 12107  | 140.34  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.07 | 101 | 5579   | 23.69   | ug/l # | 91     |
| 10) Methyl Iodide             | 3.23 | 142 | 11040  | 44.42   | ug/l # | 93     |
| 11) Tert butyl alcohol        | 3.95 | 59  | 77464  | 2300.90 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.06 | 96  | 7921   | 43.20   | ug/l   | 87     |
| 13) Acrolein                  | 3.06 | 56  | 1065   | 72.93   | ug/l   | 84     |
| 14) Allyl chloride            | 3.37 | 41  | 1578   | 3.80    | ug/l   | 96     |
| 15) Acrylonitrile             | 4.07 | 53  | 202270 | 1604.37 | ug/l   | 98     |
| 16) Acetone                   | 3.14 | 43  | 150216 | 1868.66 | ug/l   | 94     |
| 17) Carbon Disulfide          | 3.30 | 76  | 16793  | 29.51   | ug/l   | 100    |
| 18) Methyl Acetate            | 3.53 | 43  | 162443 | 968.01  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.10 | 73  | 165616 | 159.69  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.70 | 84  | 53832  | 104.38  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 4.08 | 96  | 28161  | 55.75   | ug/l   | 99     |
| 22) Diisopropyl ether         | 4.83 | 45  | 238289 | 112.65  | ug/l # | 81     |
| 23) Vinyl Acetate             | 4.83 | 43  | 106904 | 90.41   | ug/l # | 81     |
| 24) 1,1-Dichloroethane        | 4.73 | 63  | 72810  | 79.68   | ug/l   | 100    |
| 25) 2-Butanone                | 5.60 | 43  | 433448 | 1820.59 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 5.57 | 77  | 31859  | 41.70   | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 5.58 | 96  | 42353  | 76.58   | ug/l   | 94     |
| 28) Bromochloromethane        | 5.91 | 49  | 49872  | 113.87  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 5.94 | 42  | 218094 | 1924.16 | ug/l   | 98     |
| 30) Chloroform                | 6.08 | 83  | 78828  | 84.88   | ug/l   | 98     |
| 31) Cyclohexane               | 6.35 | 56  | 14659  | 17.45   | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.28 | 97  | 39774  | 50.46   | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 6.51 | 75  | 26715  | 28.08   | ug/l   | 97     |
| 37) Ethyl Acetate             | 5.60 | 43  | 434924 | 587.56  | ug/l # | 80     |
| 38) Carbon Tetrachloride      | 6.49 | 117 | 23877  | 24.87   | ug/l   | 87     |

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 Operator : JC/SY  
 Sample : J4559-11MSD  
 Misc : 5.04g/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

Manual Integrations  
 APPROVED

MMDadoda  
 8/24/2018 3:09:36 PM

Quant Time: Aug 24 07:05:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 39) Methylcyclohexane          | 8.03  | 83   | 6219     | 6.05    | ug/l # | 86       |
| 40) Benzene                    | 6.78  | 78   | 127643   | 51.61   | ug/l   | 95       |
| 41) Methacrylonitrile          | 5.92  | 41   | 68335m   | 183.27  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 6.88  | 62   | 68330    | 86.05   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.34  | 43   | 8974     | 9.32    | ug/l # | 95       |
| 44) Trichloroethene            | 7.73  | 130  | 26583    | 36.50   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.09  | 63   | 44501    | 64.37   | ug/l   | 99       |
| 46) Dibromomethane             | 8.21  | 93   | 39711    | 89.33   | ug/l   | 95       |
| 47) Bromodichloromethane       | 8.48  | 83   | 68368    | 67.94   | ug/l   | 98       |
| 48) Methyl methacrylate        | 8.24  | 41   | 117577   | 209.45  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 8.22  | 88   | 30996    | 6184.64 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 9.33  | 43   | 762648   | 1062.28 | ug/l   | 96       |
| 52) Toluene                    | 9.54  | 92   | 68499    | 43.19   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.91  | 75   | 56144    | 60.32   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 9.09  | 75   | 57912    | 53.66   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.18 | 97   | 54460    | 93.94   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.02 | 69   | 17954    | 26.83   | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.37 | 76   | 76376    | 91.02   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.92  | 63   | 181933   | 566.81  | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.48 | 43   | 518641   | 979.43  | ug/l   | 96       |
| 60) Dibromochloromethane       | 10.63 | 129  | 55597    | 76.30   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 10.75 | 107  | 52394    | 89.38   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.25 | 164  | 23637    | 38.34   | ug/l   | 94       |
| 65) Chlorobenzene              | 11.31 | 112  | 73741    | 46.54   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.42 | 131  | 37526    | 64.82   | ug/l   | 95       |
| 67) Ethyl Benzene              | 11.43 | 91   | 104260   | 39.11   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.56 | 106  | 68487    | 70.56   | ug/l   | 90       |
| 69) o-Xylene                   | 11.93 | 106  | 38667    | 40.73   | ug/l   | 92       |
| 70) Styrene                    | 11.95 | 104  | 67114    | 40.83   | ug/l   | 95       |
| 71) Bromoform                  | 12.12 | 173  | 47179    | 94.19   | ug/l # | 94       |
| 73) Isopropylbenzene           | 12.27 | 105  | 61706    | 32.48   | ug/l   | 97       |
| 74) N-amyl acetate             | 12.12 | 43   | 3861     | 4.64    | ug/l # | 81       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.56 | 83   | 83246    | 189.45  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.60 | 75   | 88662    | 191.69  | ug/l   | 98       |
| 77) Bromobenzene               | 12.54 | 156  | 35153    | 66.74   | ug/l   | 87       |
| 78) n-propylbenzene            | 12.64 | 91   | 71233    | 29.61   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.71 | 91   | 60052    | 44.14   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.78 | 105  | 49156    | 32.55   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 12.34 | 75   | 16566    | 115.14  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 12.80 | 91   | 70196    | 45.24   | ug/l   | 91       |
| 83) tert-Butylbenzene          | 13.04 | 119  | 44071    | 25.62   | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 13.09 | 105  | 51395    | 32.65   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.22 | 105  | 35888    | 17.74   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.34 | 119  | 31391    | 19.08   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.31 | 146  | 40383    | 42.95   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.38 | 146  | 42726    | 45.54   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.64 | 91   | 24335    | 13.04   | ug/l   | 95       |
| 90) Hexachloroethane           | 13.86 | 117  | 7710     | 17.45   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 43909    | 54.92   | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.22 | 75   | 16442    | 243.37  | ug/l   | 63       |

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Operator : JC/SY  
Sample : J4559-11MSD  
Misc : 5.04g/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Manual Integrations  
APPROVED

MMDadoda  
8/24/2018 3:09:36 PM

Quant Time: Aug 24 07:05:06 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 03:03:08 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.78 | 180  | 15941    | 23.29 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.88 | 225  | 2698     | 6.01  | ug/l  | 93       |
| 95) Naphthalene            | 14.96 | 128  | 30368    | 29.03 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.11 | 180  | 15496    | 26.47 | ug/l  | 94       |

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

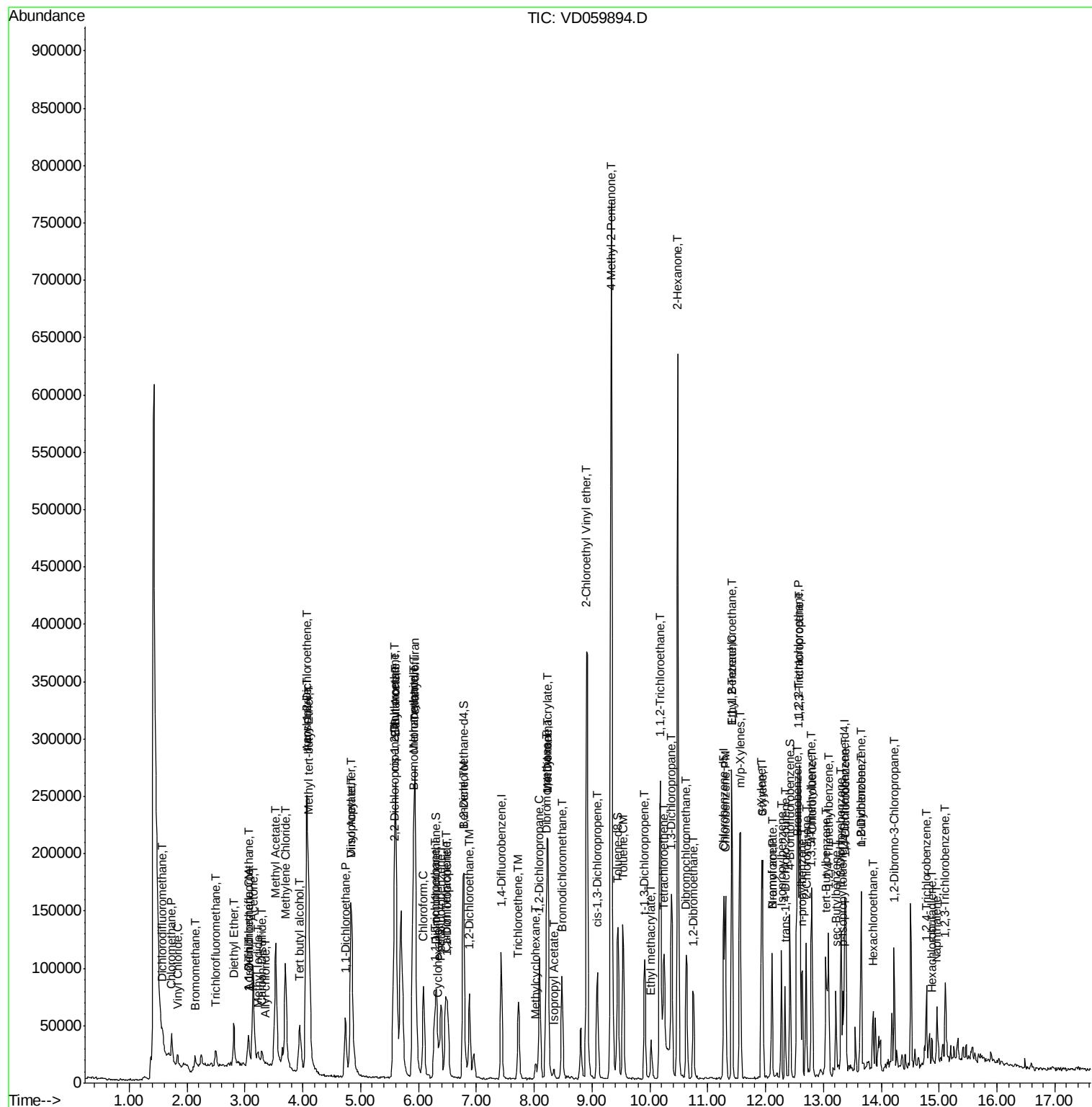
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\  
Data File : VD059894.D  
Acq On : 23 Aug 2018 18:01  
Operator : JC/SY  
Sample : J4559-11MSD  
Misc : 5.04q/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

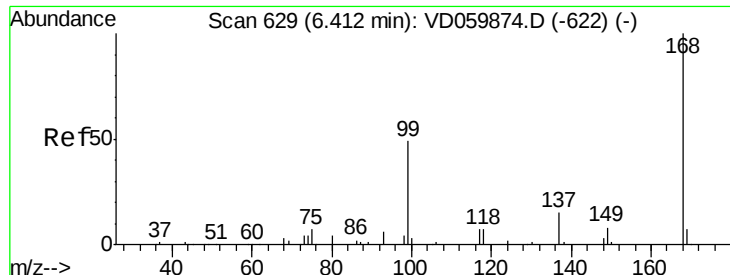
Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Manual Integrations  
APPROVED

MMDadoda  
8/24/2018 3:09:36 PM

Quant Time: Aug 24 07:05:06 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 03:03:08 2018  
Response via : Initial Calibration





#1

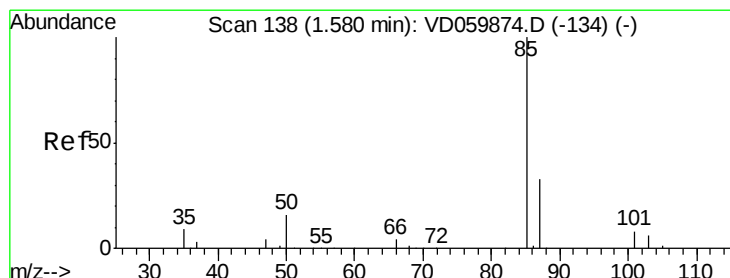
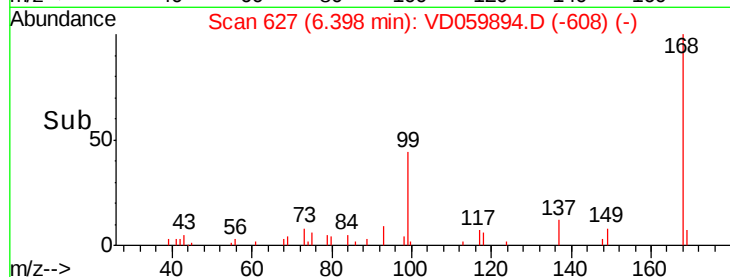
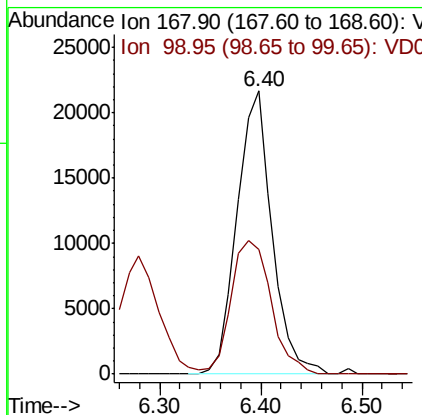
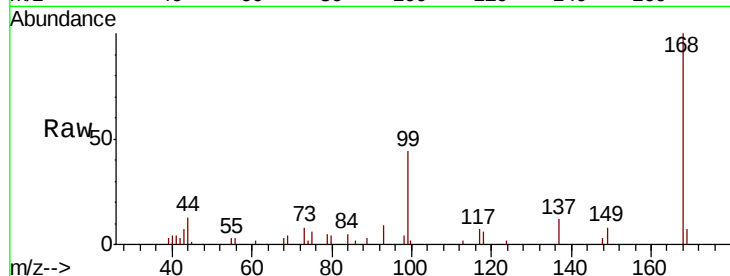
Pentafluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.40 min Scan# 627  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 99      | 43.9  | 42.2  | 63.2  |

Manual Integrations  
 APPROVED

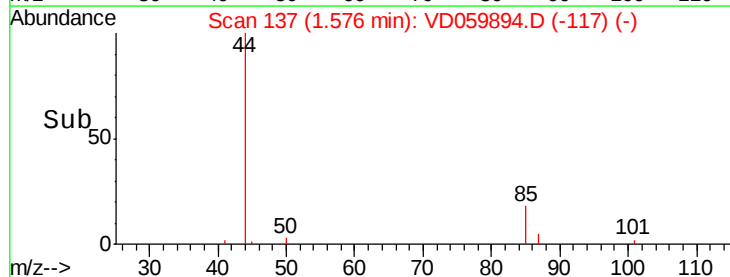
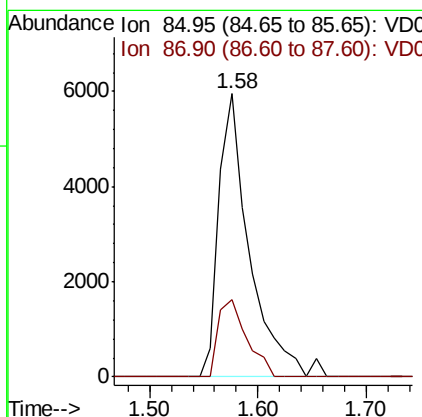
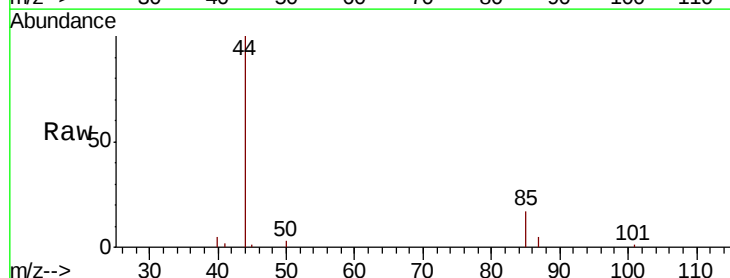
MMDadoda  
 8/24/2018 3:09:36 PM

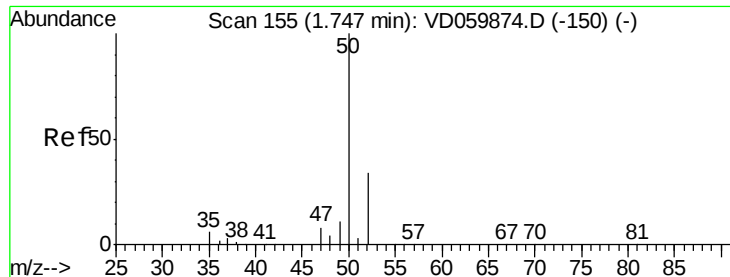


#2

Dichlorodifluoromethane  
 Concen: 25.22 ug/l  
 RT: 1.58 min Scan# 137  
 Delta R.T. -0.00 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 27.1  | 16.8  | 50.3  |





#3

Chloromethane

Concen: 65.95 ug/l

RT: 1.73 min Scan# 153

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 50 Resp: 27958

Ion Ratio Lower Upper

50 100

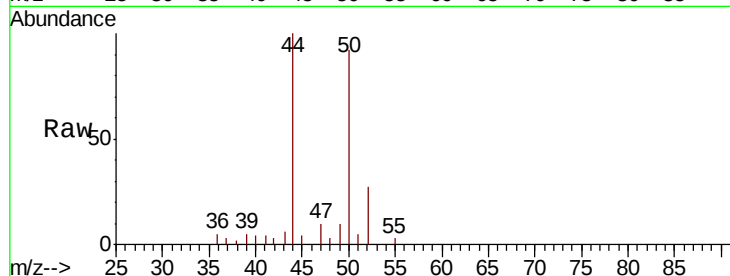
52 28.9 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

8/24/2018 3:09:36 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

15000

10000

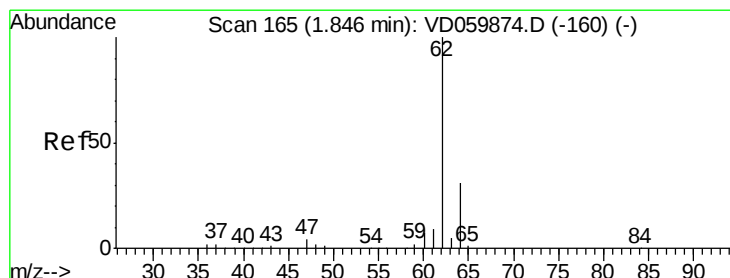
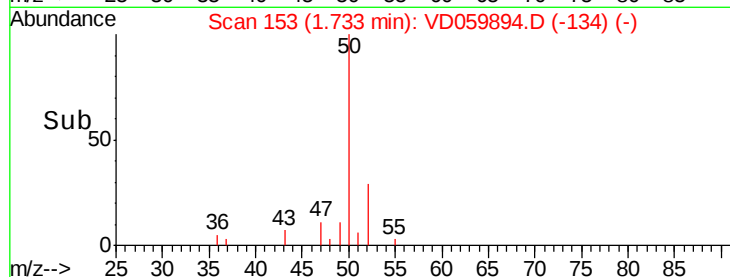
5000

0

1.73

1.70 1.80

Time-->



#4

Vinyl Chloride

Concen: 40.05 ug/l

RT: 1.83 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD059894.D

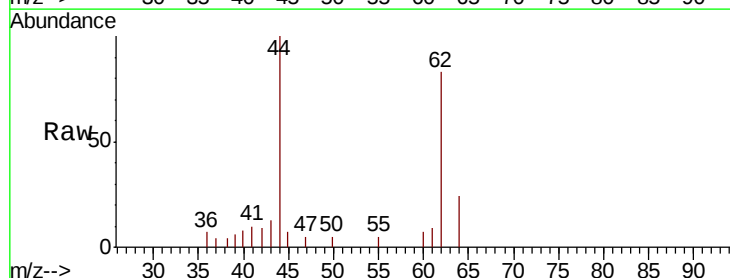
Acq: 23 Aug 2018 18:01

Tgt Ion: 62 Resp: 13313

Ion Ratio Lower Upper

62 100

64 28.4 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

8000

6000

4000

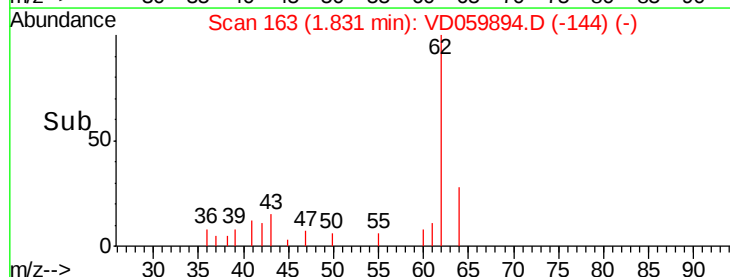
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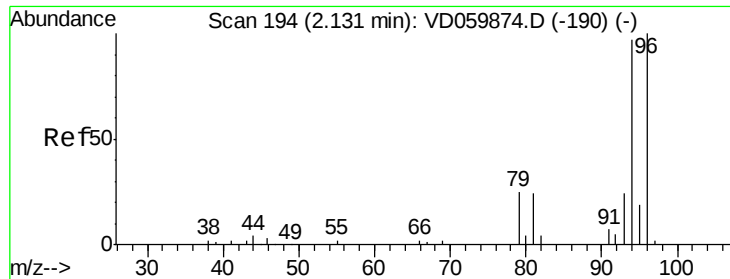
0

1.83

1.75 1.80 1.85 1.90 1.95

Time-->





#5

Bromomethane

Concen: 163.97 ug/l

RT: 2.14 min Scan# 194

Delta R.T. 0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 94 Resp: 9410

Ion Ratio Lower Upper

94 100

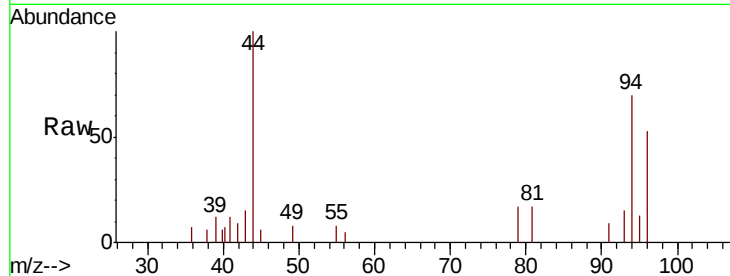
96 76.0 82.4 123.6#

Manual Integrations

APPROVED

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8/24/2018 3:09:36 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

5000

4000

3000

2000

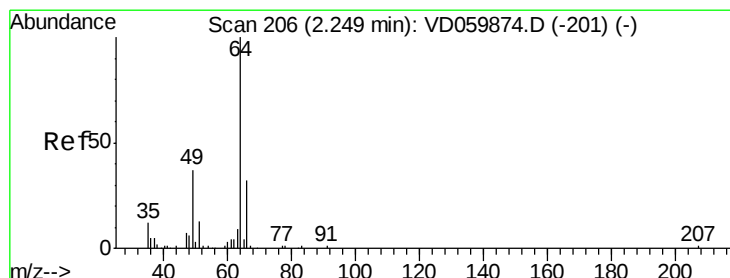
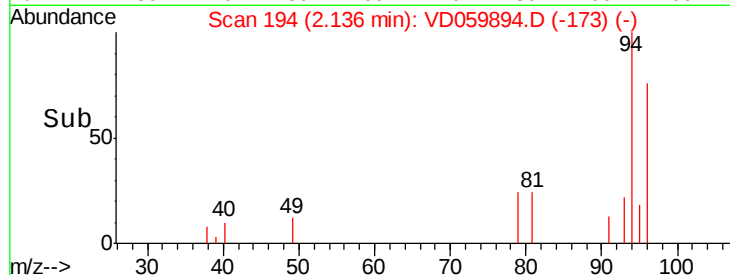
1000

0

Time-->

2.05 2.10 2.15 2.20

2.14



#6

Chloroethane

Concen: Below Cal

RT: 2.24 min Scan# 205

Delta R.T. -0.00 min

Lab File: VD059894.D

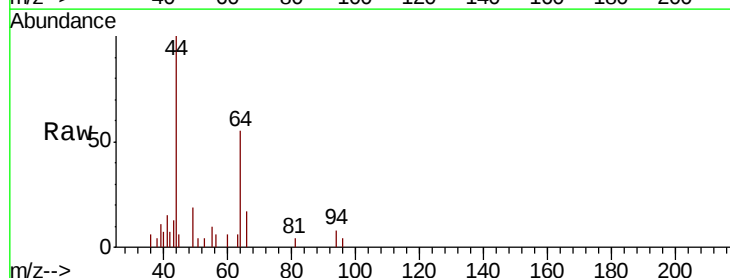
Acq: 23 Aug 2018 18:01

Tgt Ion: 64 Resp: 9385

Ion Ratio Lower Upper

64 100

66 31.6 25.3 37.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

5000

4000

3000

2000

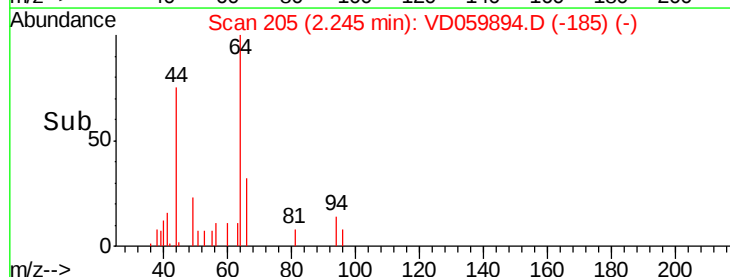
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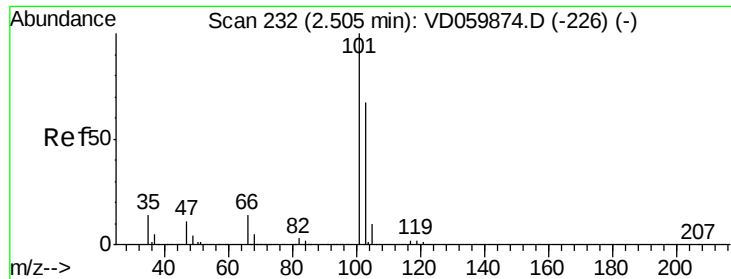
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Time-->

2.20 2.30

2.24





#7

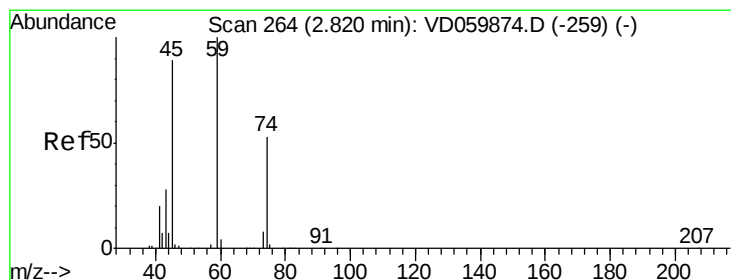
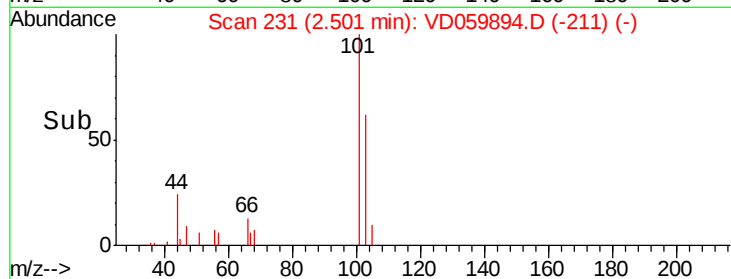
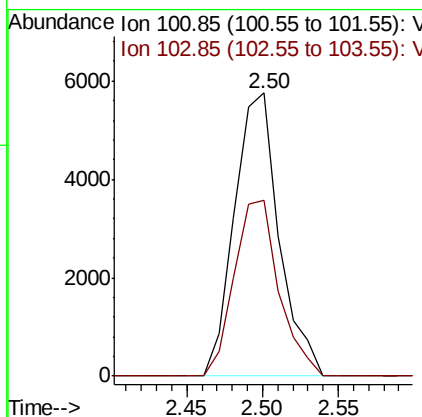
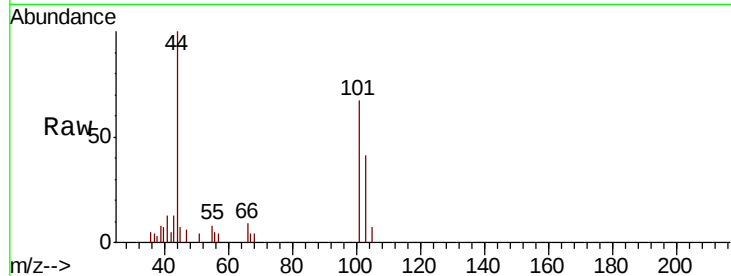
Trichlorofluoromethane  
Concen: 30.73 ug/l  
RT: 2.50 min Scan# 231  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 62.1  | 53.7  | 80.5  |

Manual Integrations  
APPROVED

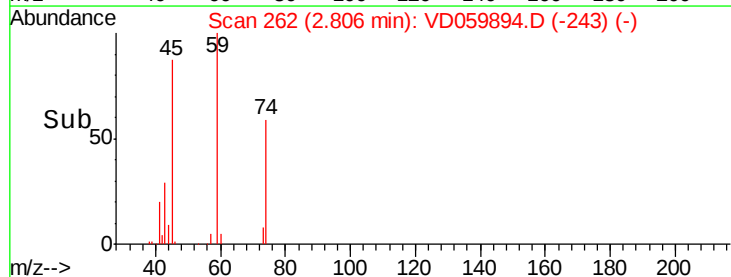
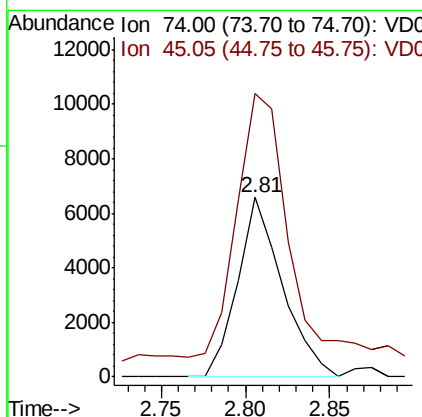
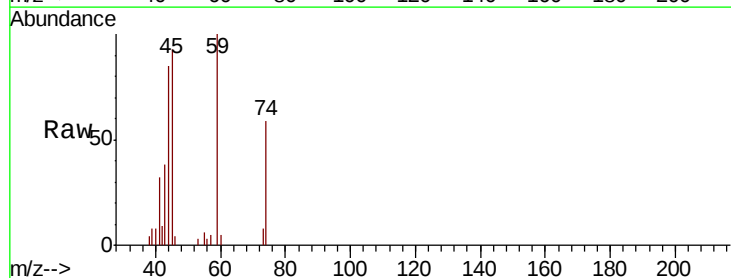
MMDadoda  
8/24/2018 3:09:36 PM

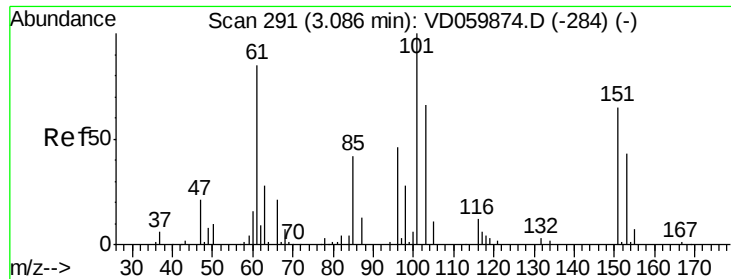


#8

Diethyl Ether  
Concen: 140.34 ug/l  
RT: 2.81 min Scan# 262  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 157.9 | 85.7  | 257.1 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.69 ug/l

RT: 3.07 min Scan# 289

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

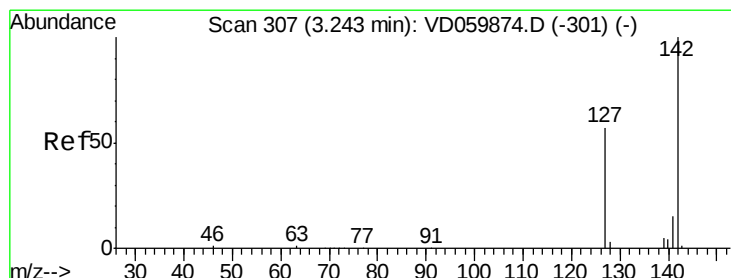
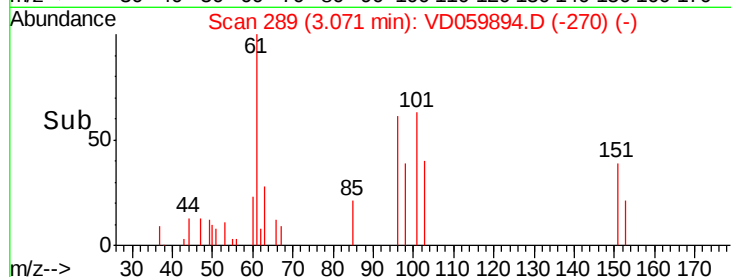
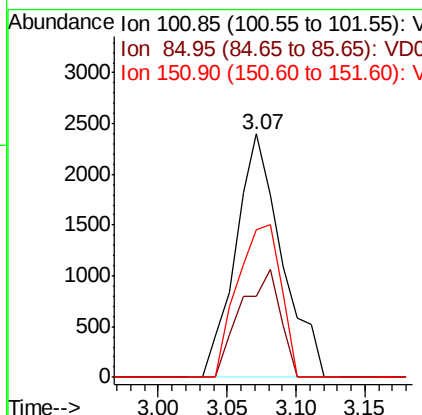
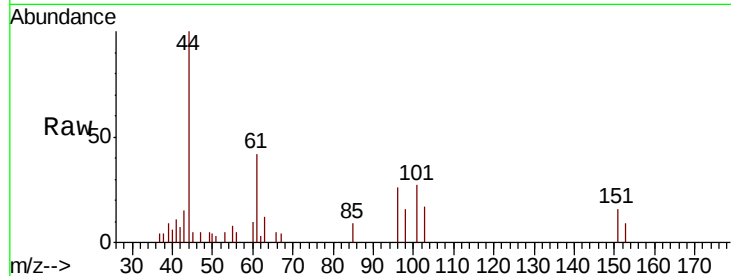
ClientSampleId :

RA-081718-WSW-20-053

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 5579  |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 33.2  | 33.6  | 50.4# |
| 151       | 60.8  | 52.0  | 78.0  |

Manual Integrations  
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8/24/2018 3:09:36 PM



#10

Methyl Iodide

Concen: 44.42 ug/l

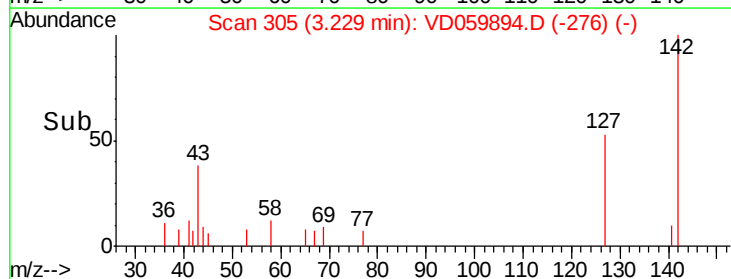
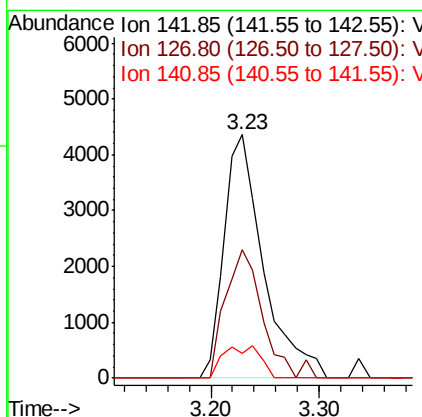
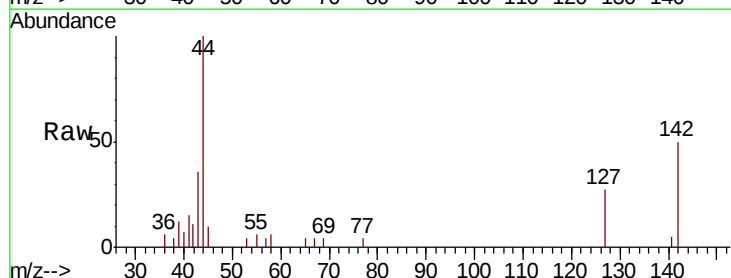
RT: 3.23 min Scan# 305

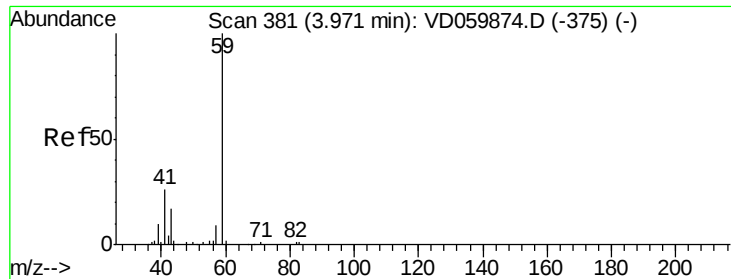
Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 11040 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 53.0  | 45.8  | 68.6  |
| 141       | 10.0  | 11.6  | 17.4# |





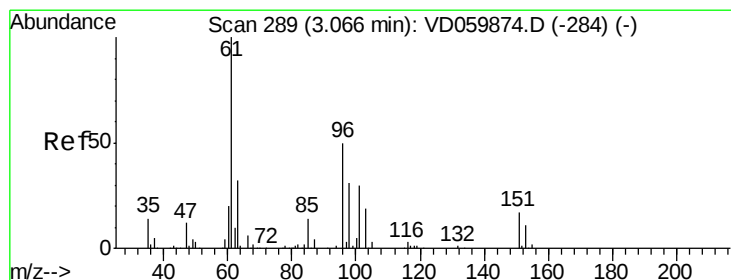
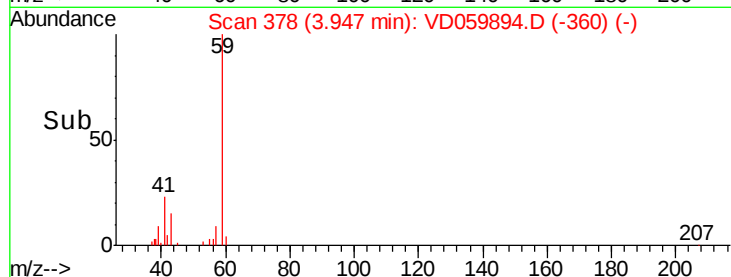
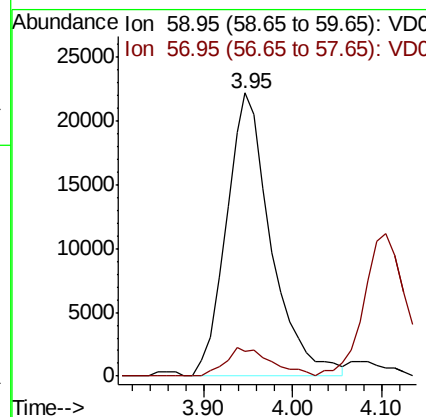
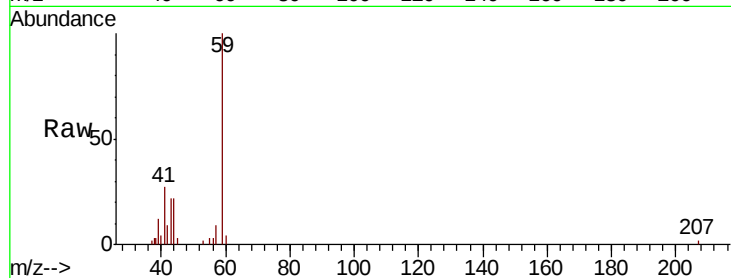
#11  
Tert butyl alcohol  
Concen: 2300.90 ug/l  
RT: 3.95 min Scan# 378  
Delta R.T. -0.02 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Tot Ion: 59 Resp: 77464  
Ion Ratio Lower Upper  
59 100  
57 9.0 7.4 11.0

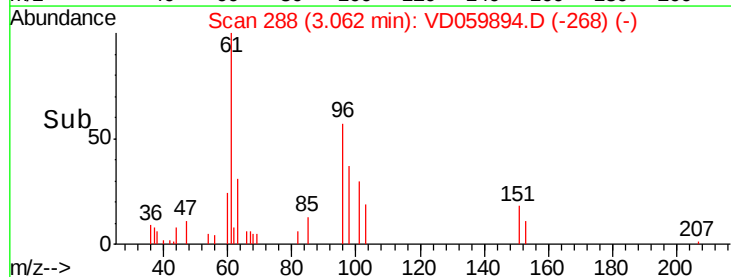
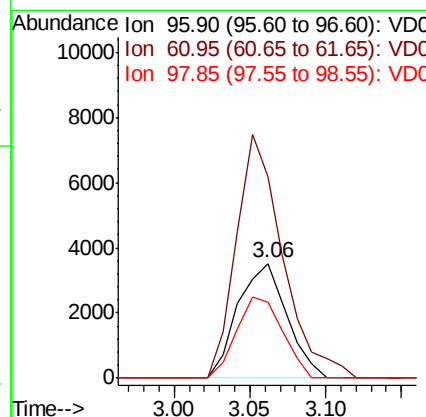
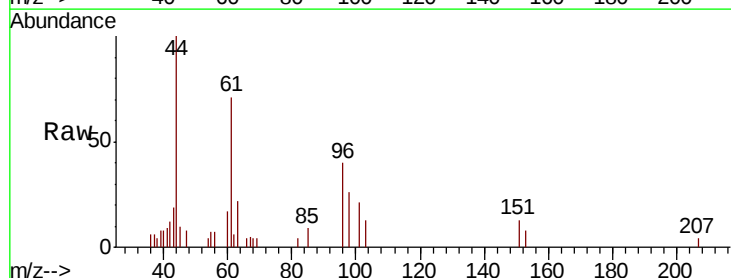
Manual Integrations  
APPROVED

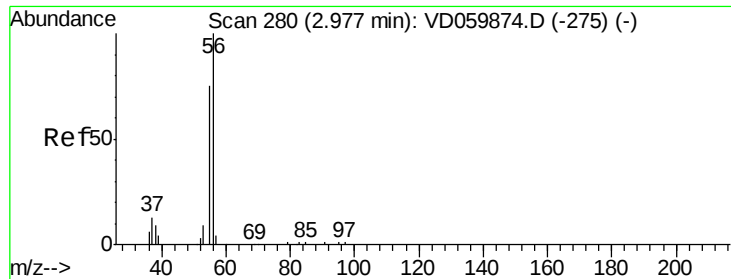
MMDadoda  
8/24/2018 3:09:36 PM



#12  
1,1-Dichloroethene  
Concen: 43.20 ug/l  
RT: 3.06 min Scan# 288  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Tgt Ion: 96 Resp: 7921  
Ion Ratio Lower Upper  
96 100  
61 175.2 158.8 238.2  
98 65.6 48.7 73.1





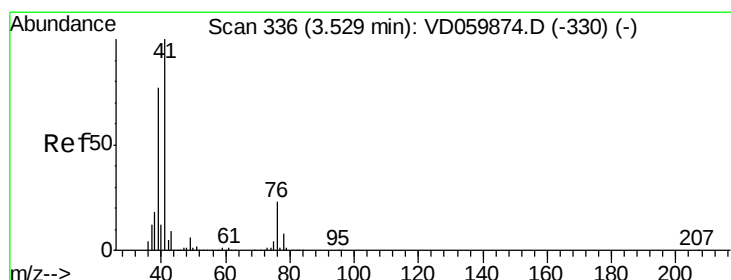
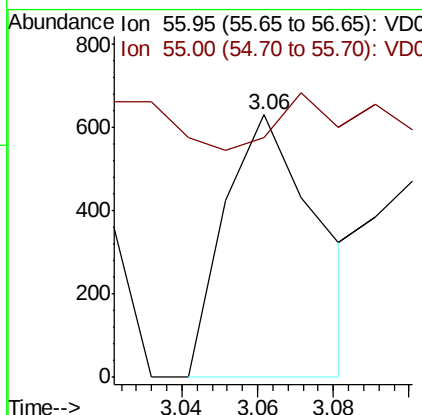
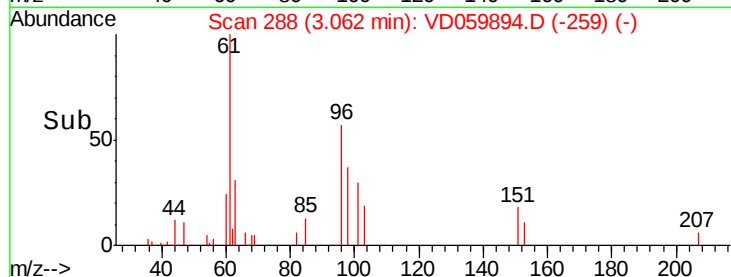
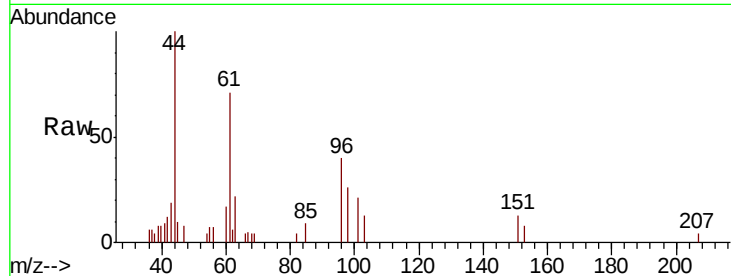
#13  
Acrolein  
Concen: 72.93 ug/l  
RT: 3.06 min Scan# 288  
Delta R.T. 0.08 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Tot Ion: 56 Resp: 1065  
Ion Ratio Lower Upper  
56 100  
55 91.3 61.9 92.9

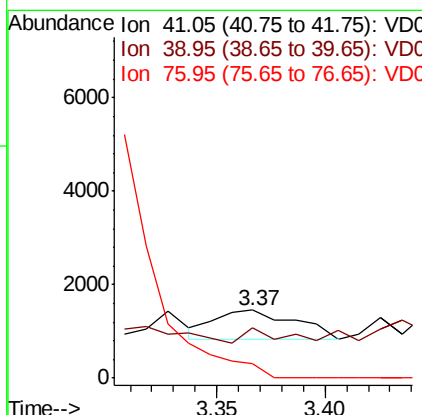
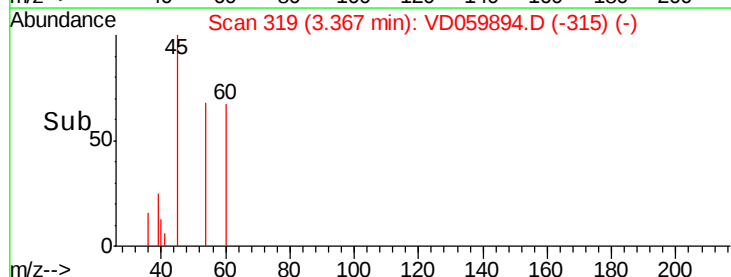
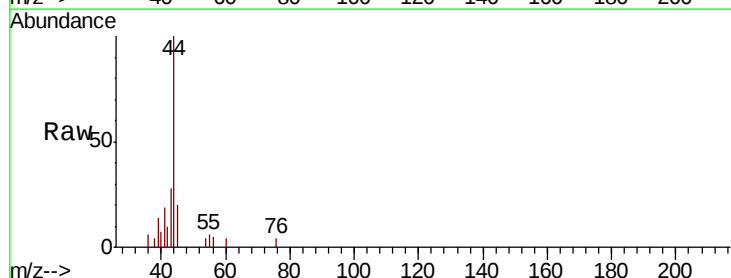
Manual Integrations  
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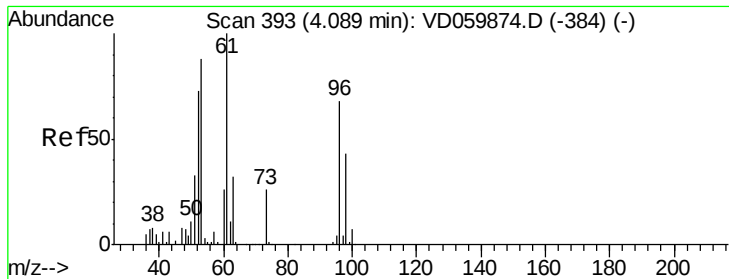
MMDadoda  
8/24/2018 3:09:36 PM



#14  
Allyl chloride  
Concen: 3.80 ug/l  
RT: 3.37 min Scan# 319  
Delta R.T. -0.16 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Tgt Ion: 41 Resp: 1578  
Ion Ratio Lower Upper  
41 100  
39 73.3 61.8 92.6  
76 22.3 19.4 29.2





#15

Acrylonitrile

Concen: 1604.37 ug/l

RT: 4.07 min Scan# 390

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

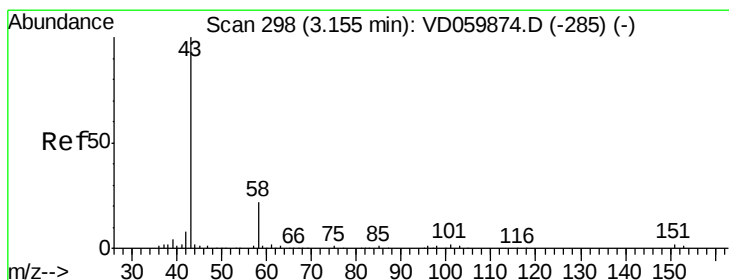
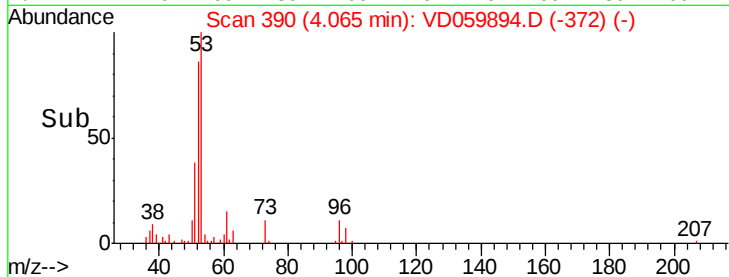
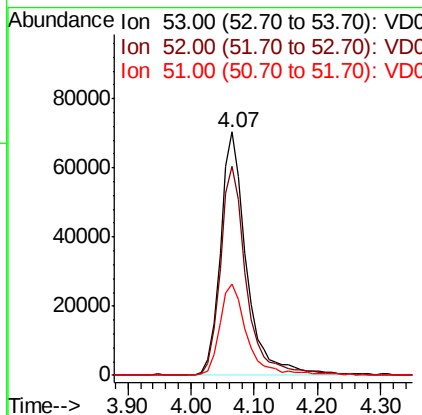
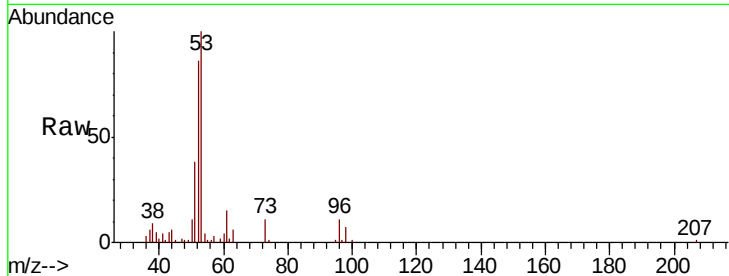
ClientSampleId :

RA-081718-WSW-20-053

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 202270 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 86.0  | 66.9  | 100.3  |
| 51       | 37.7  | 30.3  | 45.5   |

Manual Integrations  
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#16

Acetone

Concen: 1868.66 ug/l

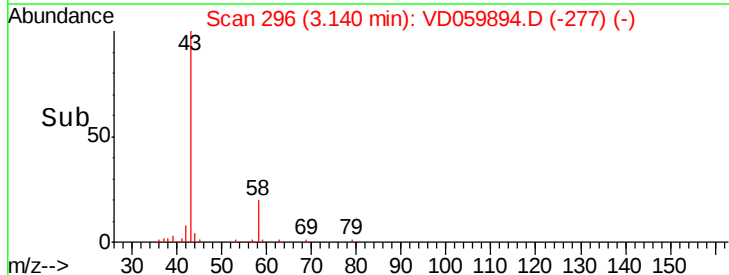
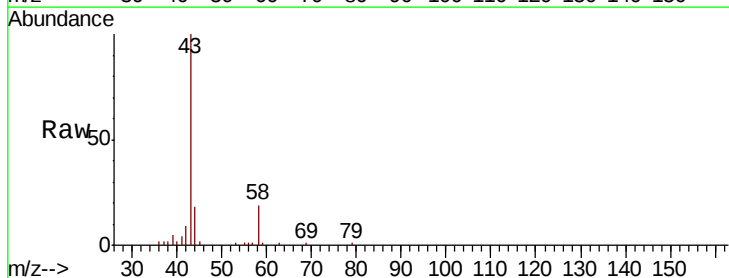
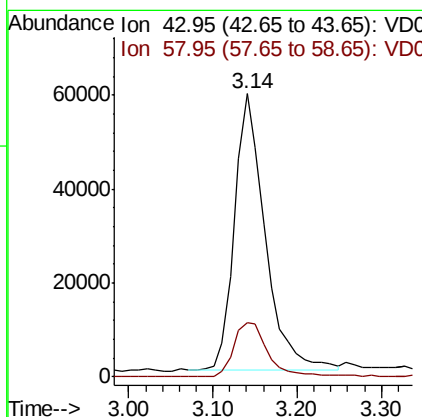
RT: 3.14 min Scan# 296

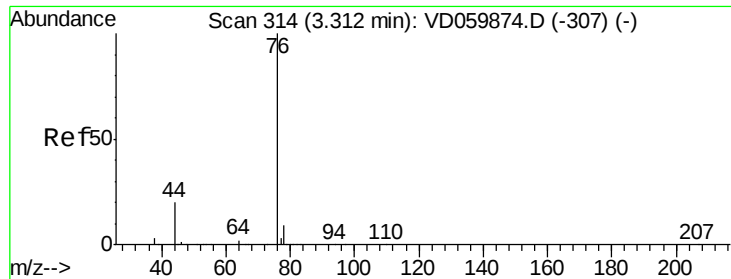
Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 150216 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 19.2  | 17.6  | 26.4   |





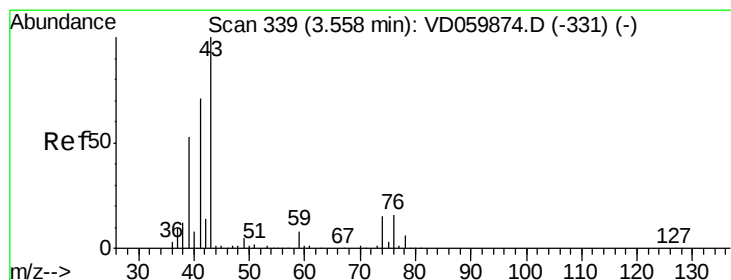
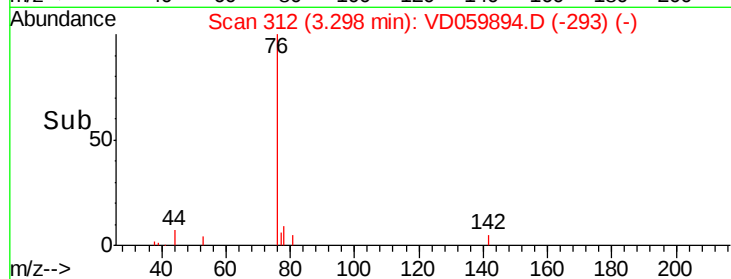
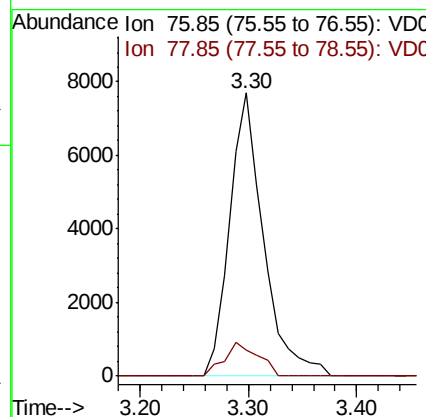
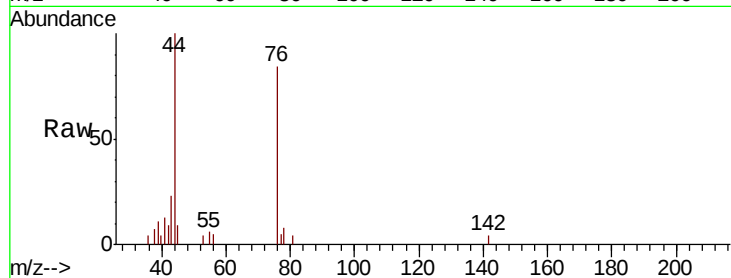
#17  
Carbon Disulfide  
Concen: 29.51 ug/l  
RT: 3.30 min Scan# 312  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.4   | 7.4   | 11.2  |

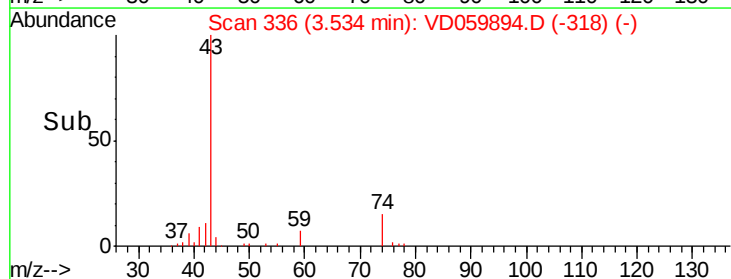
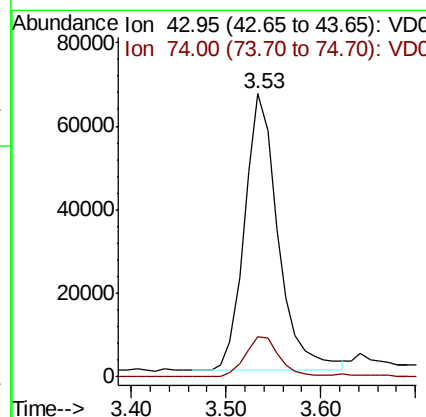
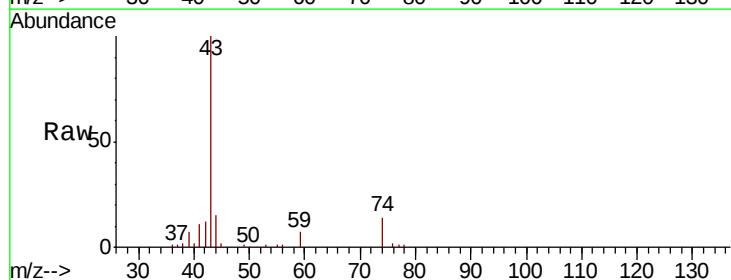
Manual Integrations  
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#18  
Methyl Acetate  
Concen: 968.01 ug/l  
RT: 3.53 min Scan# 336  
Delta R.T. -0.02 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 14.3  | 11.2  | 16.8  |





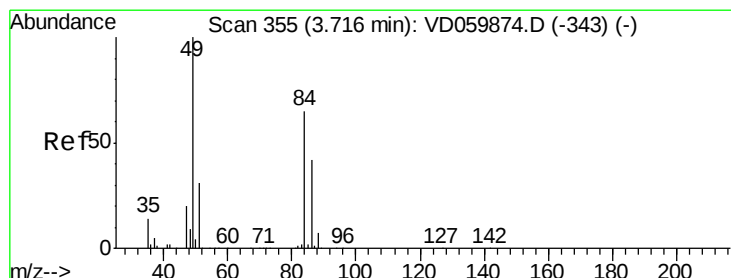
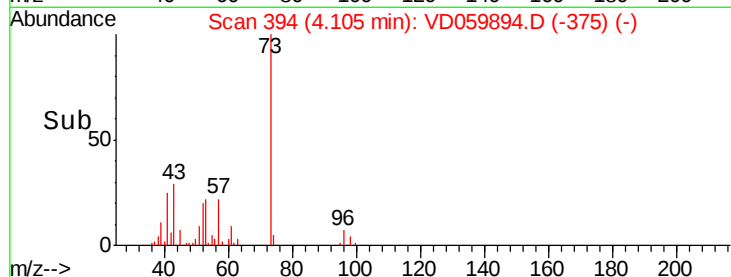
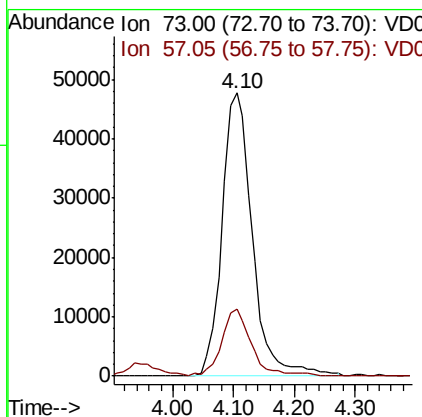
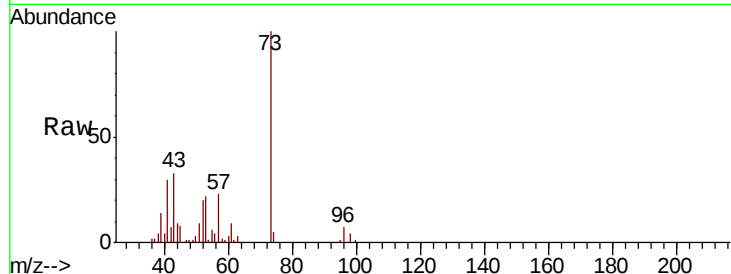
#19  
Methyl tert-butyl Ether  
Concen: 159.69 ug/l  
RT: 4.10 min Scan# 394  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Tot Ion: 73 Resp: 165616  
Ion Ratio Lower Upper  
73 100  
57 23.5 17.9 26.9

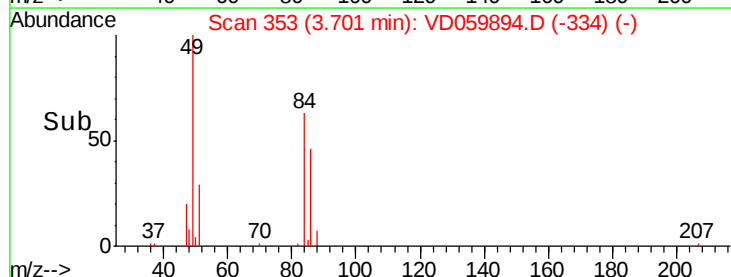
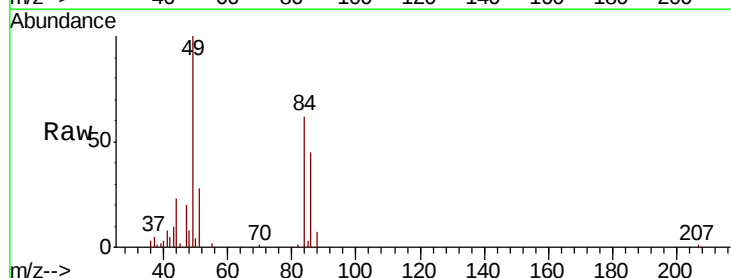
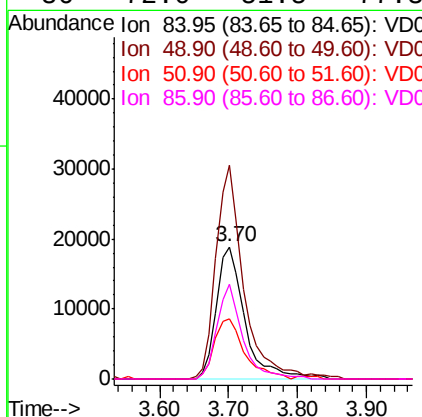
Manual Integrations  
APPROVED

MMDadoda  
8/24/2018 3:09:36 PM



#20  
Methylene Chloride  
Concen: 104.38 ug/l  
RT: 3.70 min Scan# 353  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Tgt Ion: 84 Resp: 53832  
Ion Ratio Lower Upper  
84 100  
49 161.6 122.6 183.8  
51 45.9 38.4 57.6  
86 72.0 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 55.75 ug/l

RT: 4.08 min Scan# 391

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

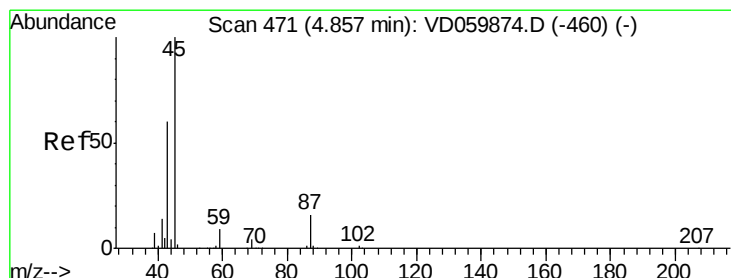
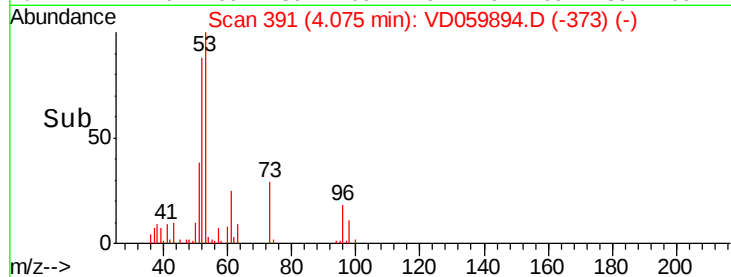
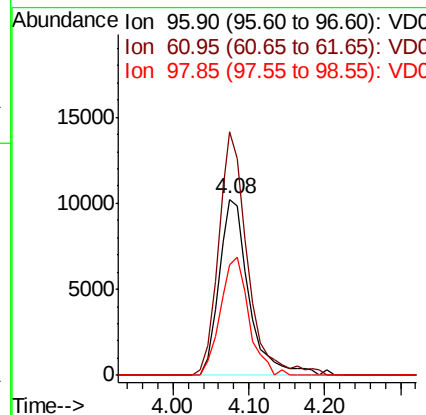
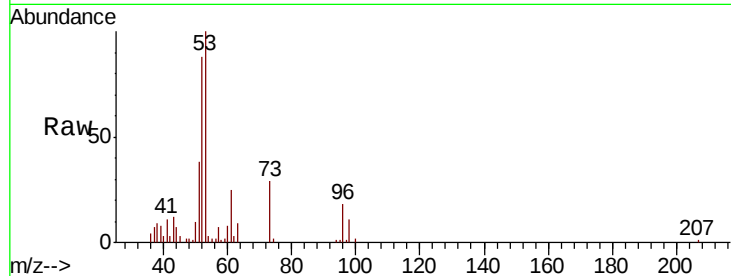
ClientSampleId :

RA-081718-WSW-20-053

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 28161 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 138.5 | 110.2 | 165.4 |
| 98       | 62.5  | 50.9  | 76.3  |

Manual Integrations  
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8/24/2018 3:09:36 PM



#22

Diisopropyl ether

Concen: 112.65 ug/l

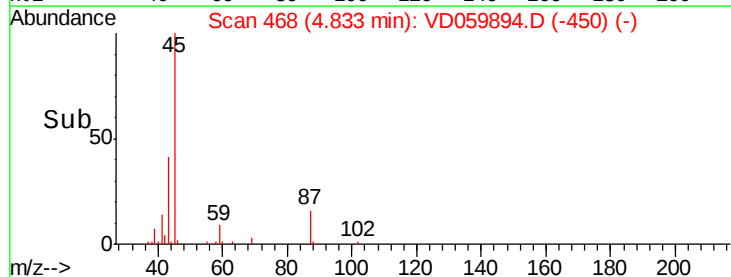
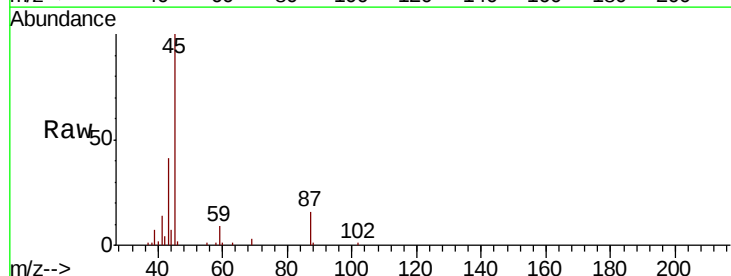
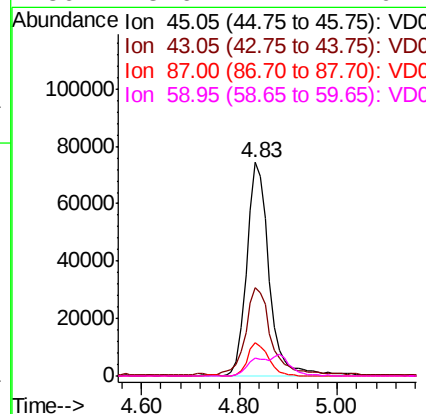
RT: 4.83 min Scan# 468

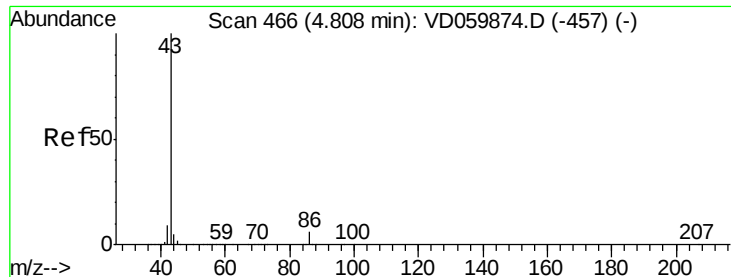
Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 238289 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 41.2  | 48.6  | 72.8#  |
| 87       | 15.7  | 13.3  | 19.9   |
| 59       | 8.6   | 7.1   | 10.7   |





#23

Vinyl Acetate

Concen: 90.41 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

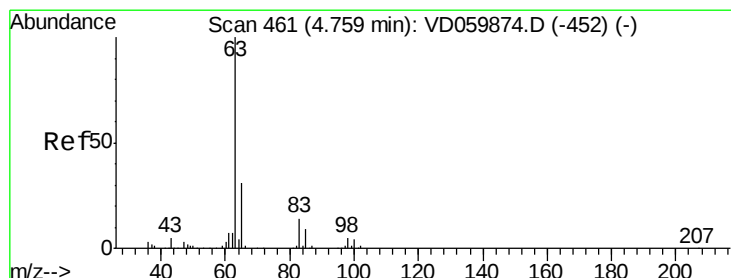
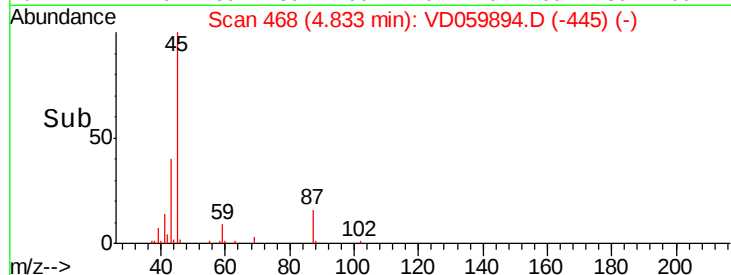
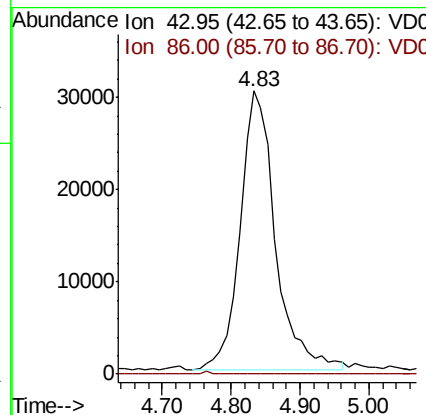
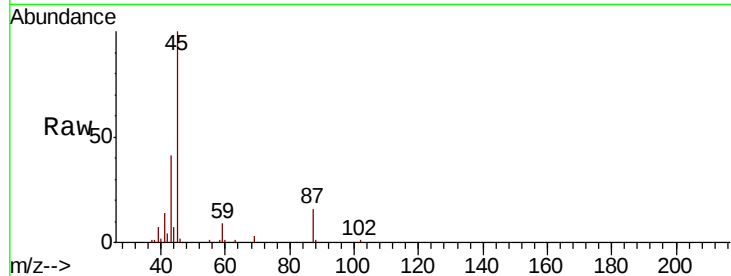
ClientSampleId :

RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 0.0   | 5.0   | 7.6#  |

Manual Integrations  
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#24

1,1-Dichloroethane

Concen: 79.68 ug/l

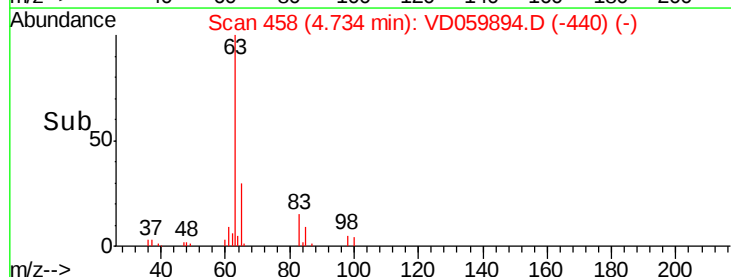
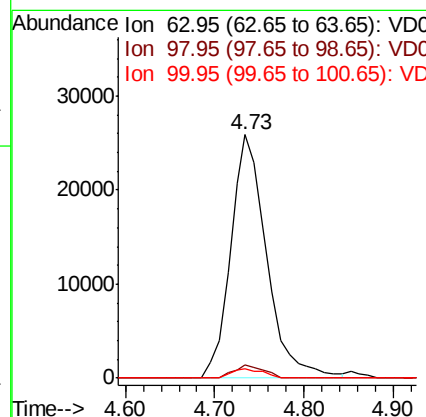
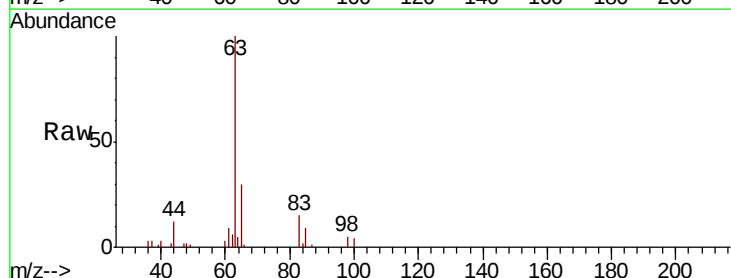
RT: 4.73 min Scan# 458

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 5.4   | 2.7   | 8.1   |
| 100     | 3.7   | 1.8   | 5.3   |





#25

2-Butanone

Concen: 1820.59 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 43 Resp: 433448

Ion Ratio Lower Upper

43 100

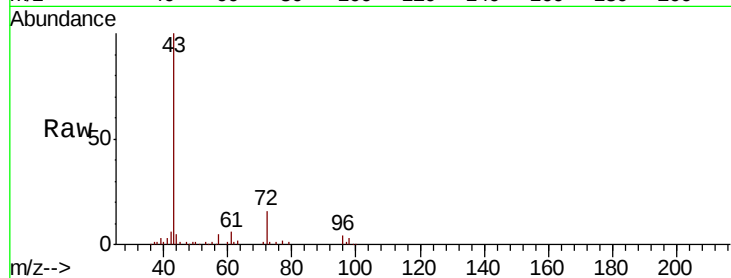
72 16.1 12.3 18.5

Manual Integrations

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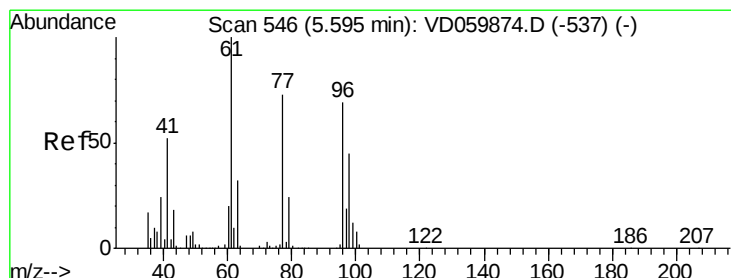
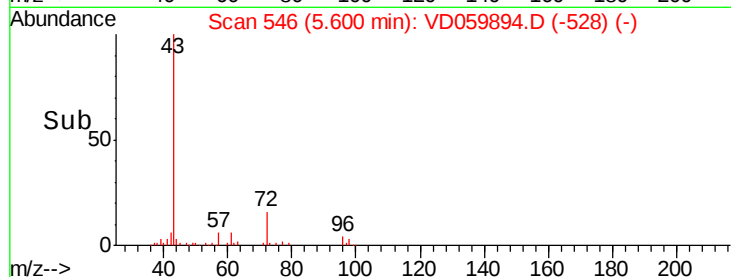
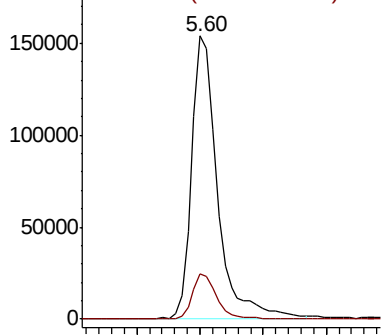
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 41.70 ug/l

RT: 5.57 min Scan# 543

Delta R.T. -0.02 min

Lab File: VD059894.D

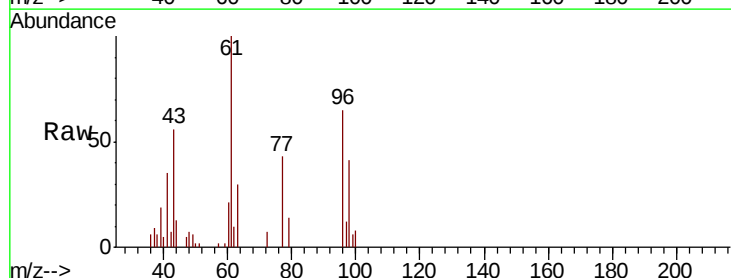
Acq: 23 Aug 2018 18:01

Tgt Ion: 77 Resp: 31859

Ion Ratio Lower Upper

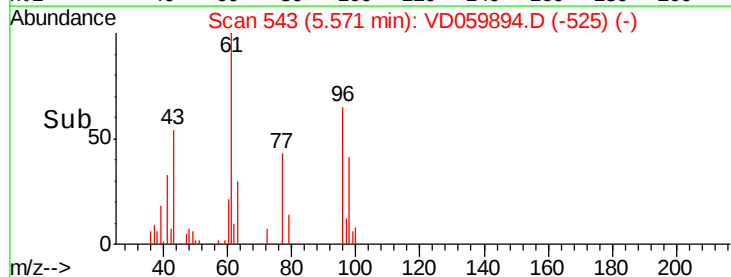
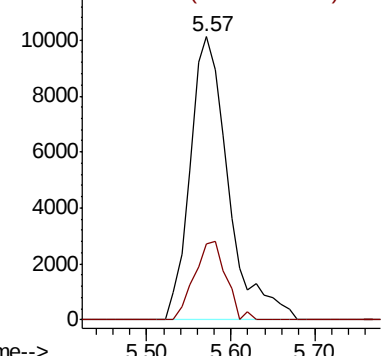
77 100

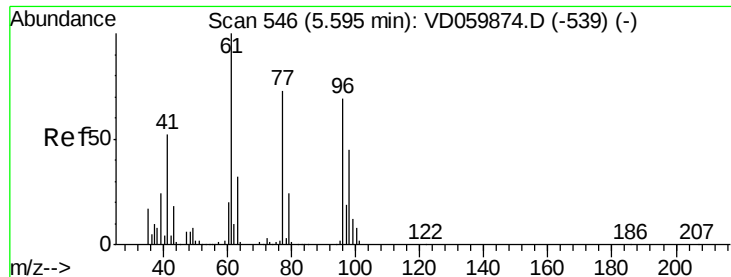
97 26.9 13.0 38.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

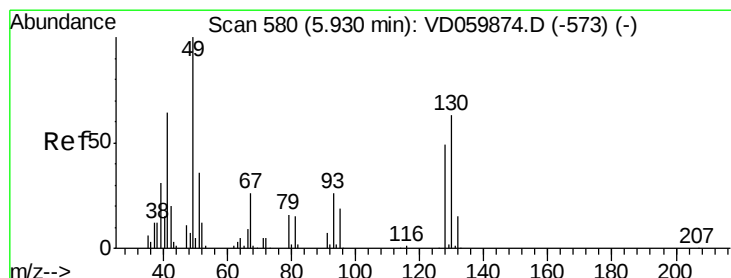
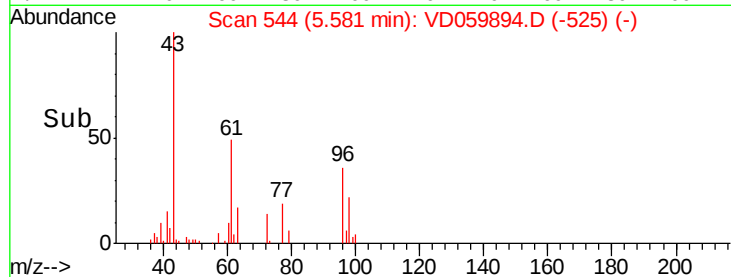
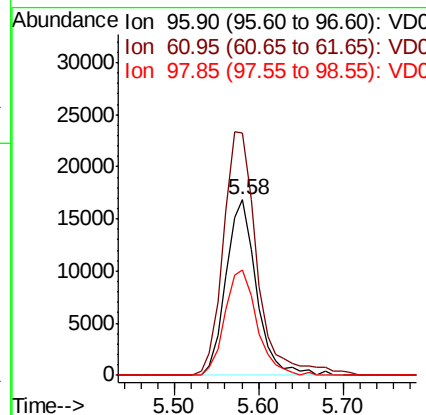
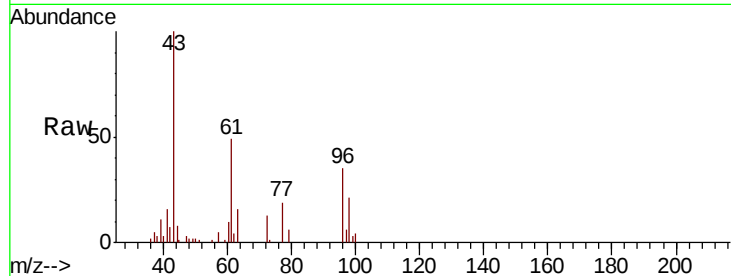
cis-1,2-Dichloroethene  
 Concen: 76.58 ug/l  
 RT: 5.58 min Scan# 544  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 137.7 | 0.0   | 290.2 |
| 98      | 60.3  | 0.0   | 130.4 |

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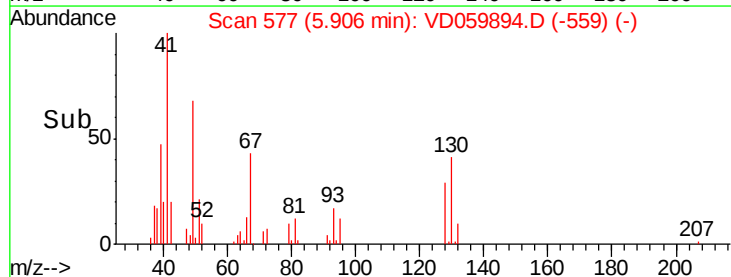
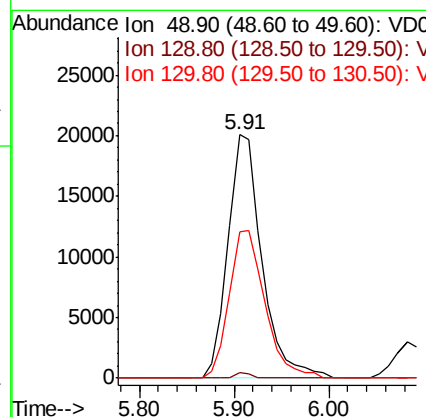
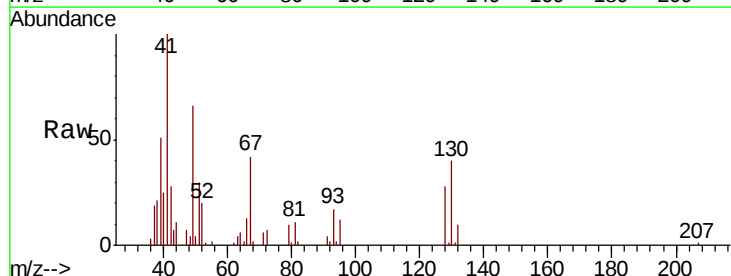
MMDadoda  
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#28

Bromochloromethane  
 Concen: 113.87 ug/l  
 RT: 5.91 min Scan# 577  
 Delta R.T. -0.02 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.0   | 0.0   | 3.2   |
| 130     | 59.9  | 50.6  | 75.8  |





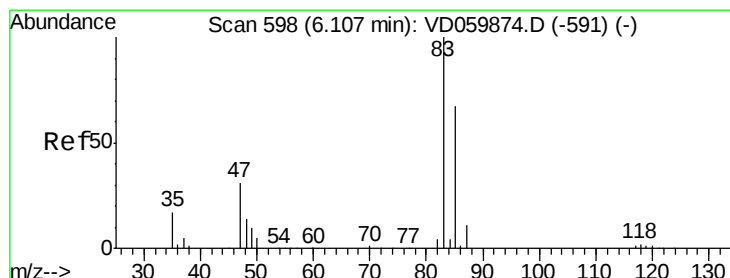
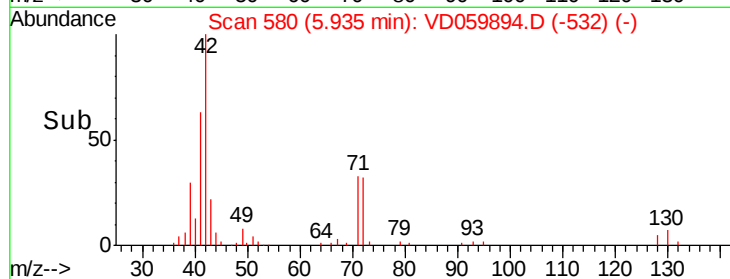
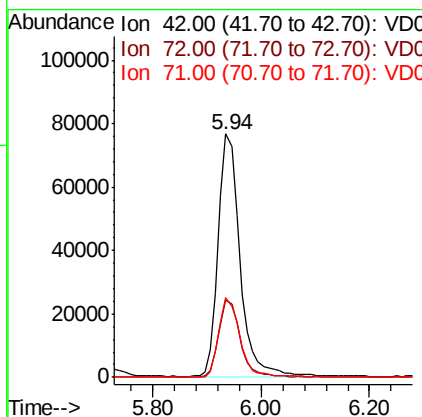
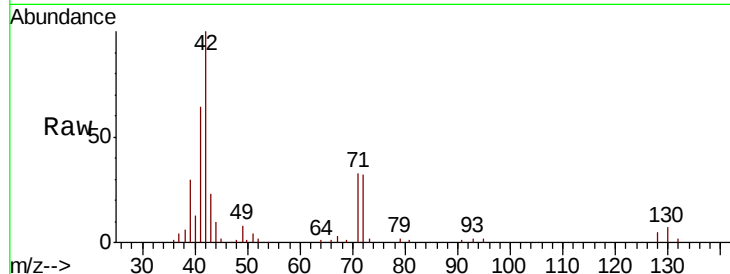
#29  
Tetrahydrofuran  
Concen: 1924.16 ug/l  
RT: 5.94 min Scan# 580  
Delta R.T. -0.02 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 30.6  | 25.7  | 38.5  |
| 71      | 31.3  | 25.3  | 37.9  |

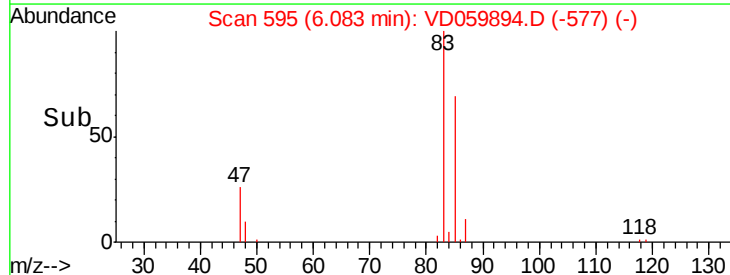
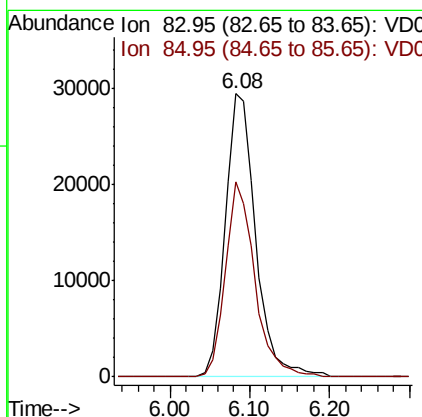
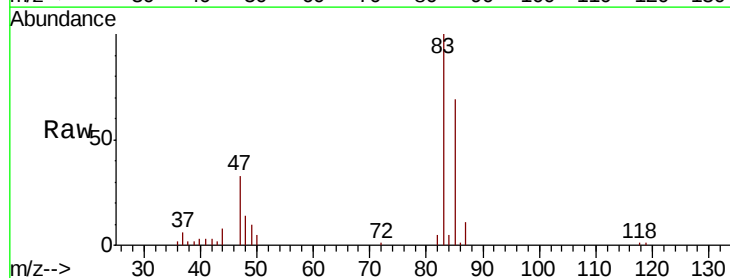
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APPROVED

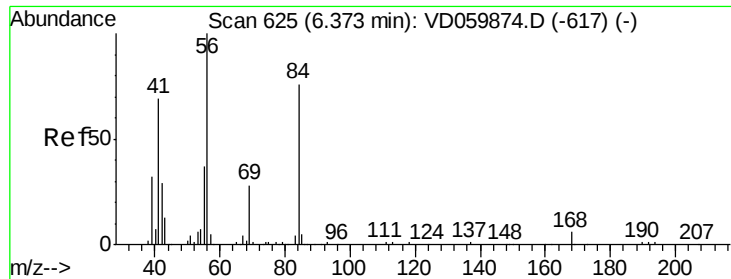
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#30  
Chloroform  
Concen: 84.88 ug/l  
RT: 6.08 min Scan# 595  
Delta R.T. -0.02 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 68.9  | 53.5  | 80.3  |





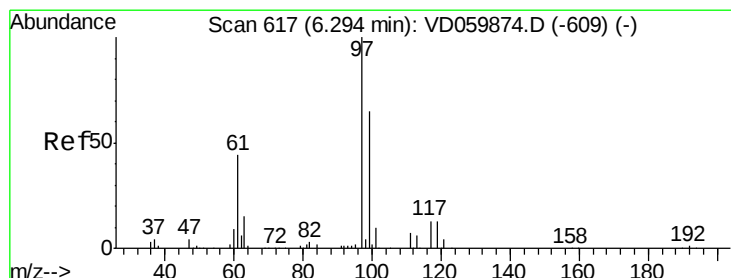
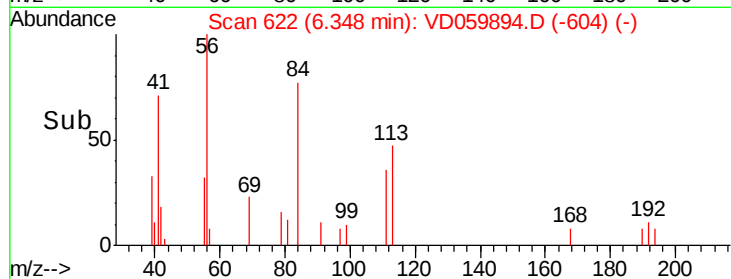
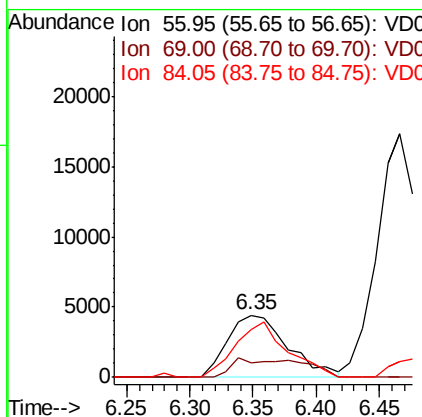
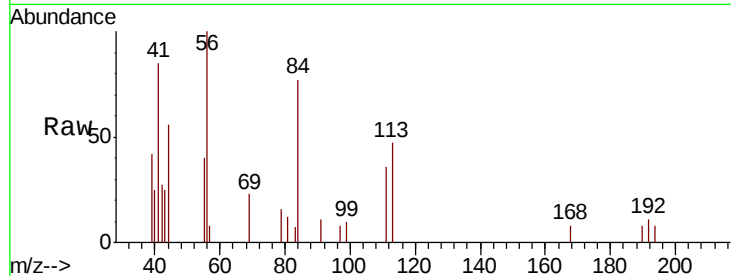
#31  
Cvclohexane  
Concen: 17.45 ug/l  
RT: 6.35 min Scan# 622  
Delta R.T. -0.02 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 22.6  | 22.4  | 33.6  |
| 84      | 77.5  | 62.1  | 93.1  |

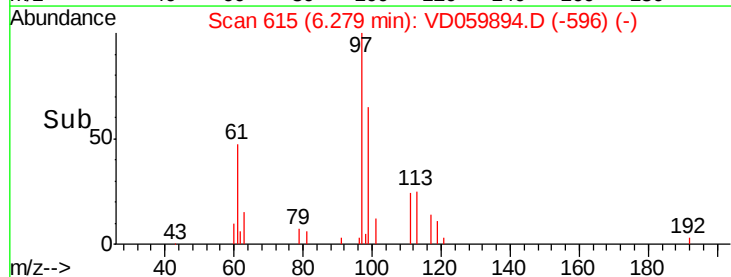
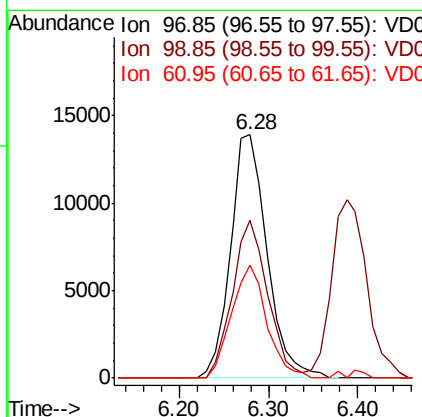
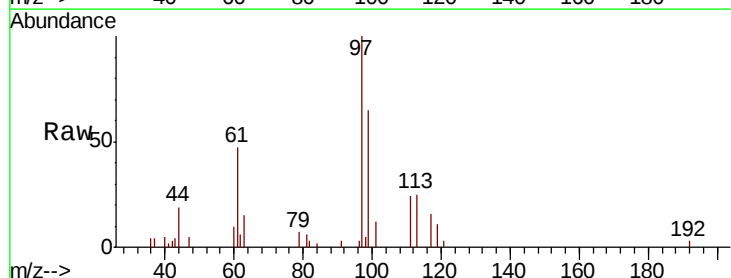
Manual Integrations  
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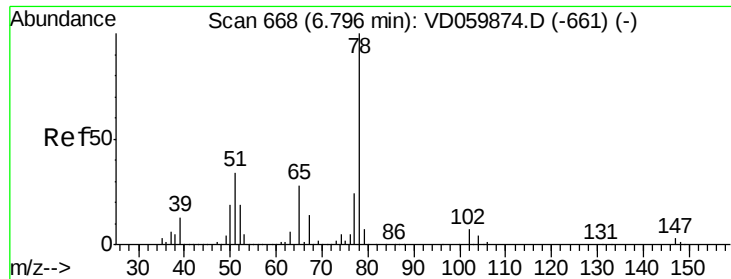
MMDadoda  
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#32  
1,1,1-Trichloroethane  
Concen: 50.46 ug/l  
RT: 6.28 min Scan# 615  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.9  | 51.7  | 77.5  |
| 61      | 46.7  | 35.4  | 53.2  |





#33

1,2-Dichloroethane-d4

Concen: 50.46 ug/l

RT: 6.77 min Scan# 665

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 65 Resp: 56452

Ion Ratio Lower Upper

65 100

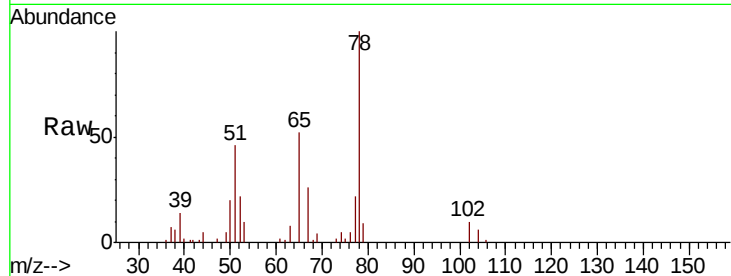
67 49.4 0.0 103.8

Manual Integrations

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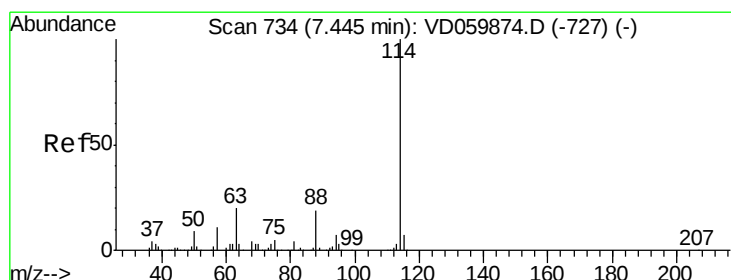
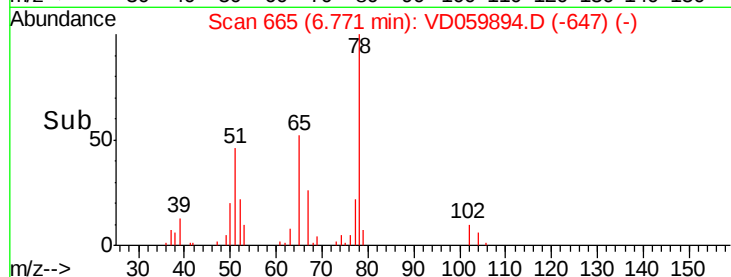
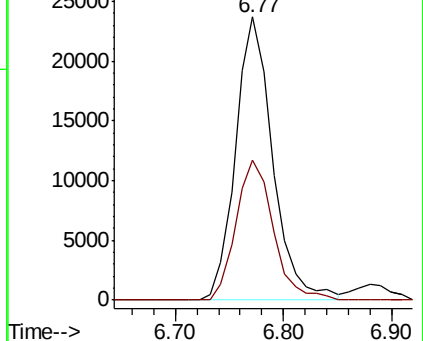
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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.43 min Scan# 732

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

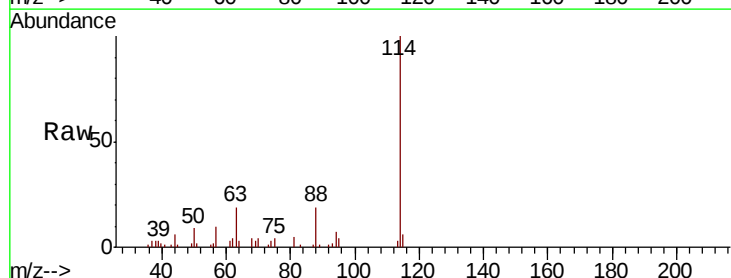
Tgt Ion: 114 Resp: 104935

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

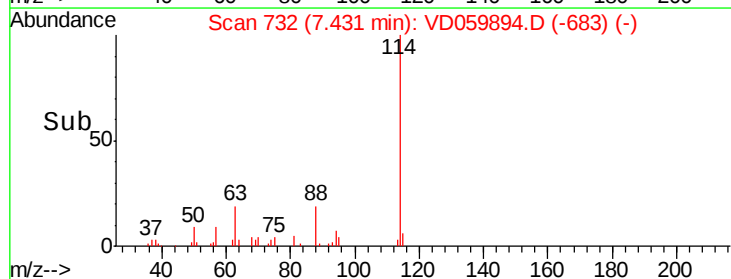
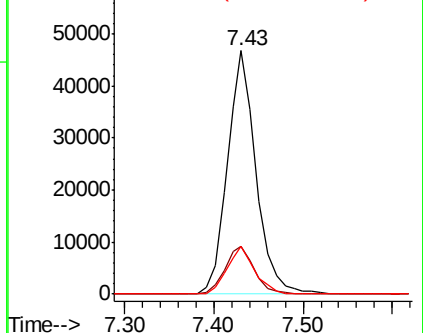
88 19.4 0.0 37.6

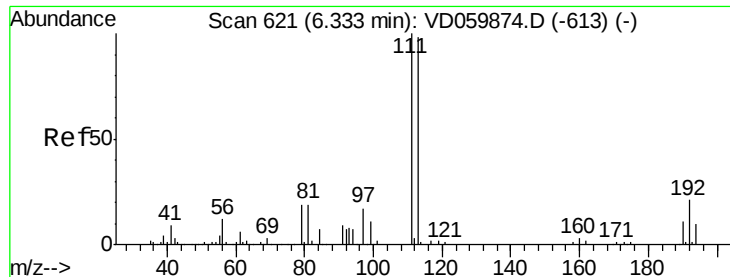


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.31 min Scan# 618

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

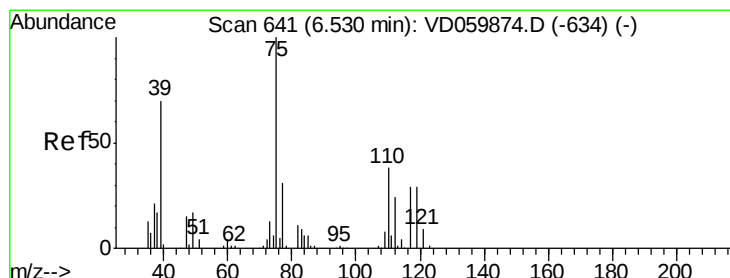
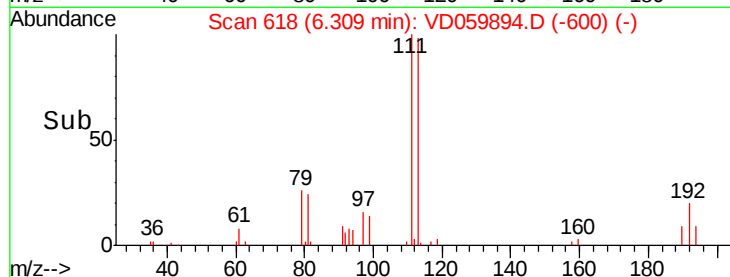
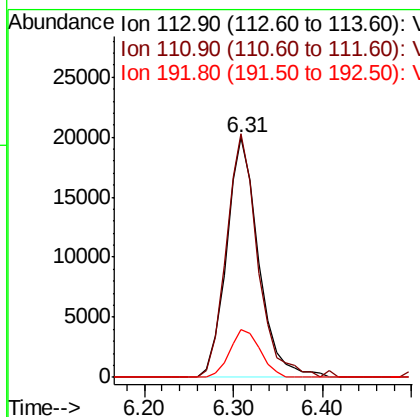
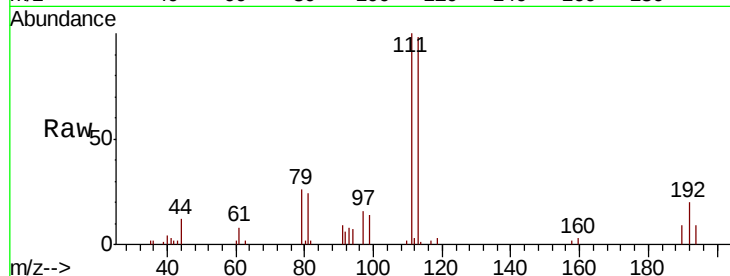
ClientSampleId :

RA-081718-WSW-20-053

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 113   | Resp: | 50131 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.8 | 81.4  | 122.2 |
| 192      | 20.1  | 17.0  | 25.6  |

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#36

1,1-Dichloropropene

Concen: 28.08 ug/l

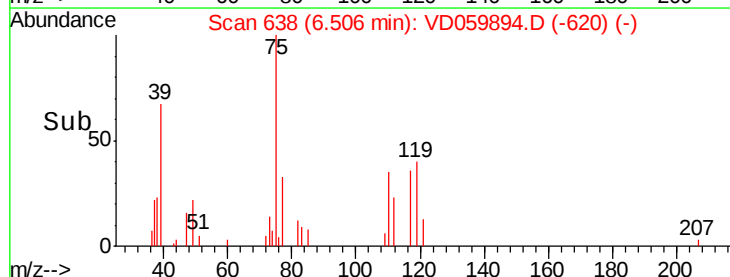
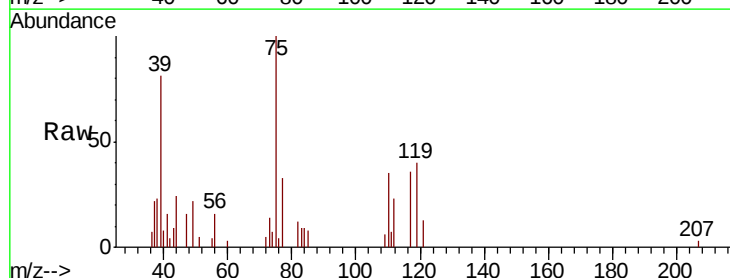
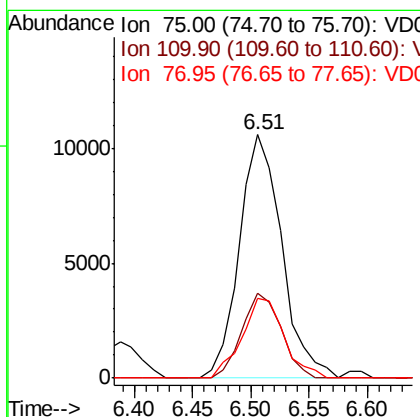
RT: 6.51 min Scan# 638

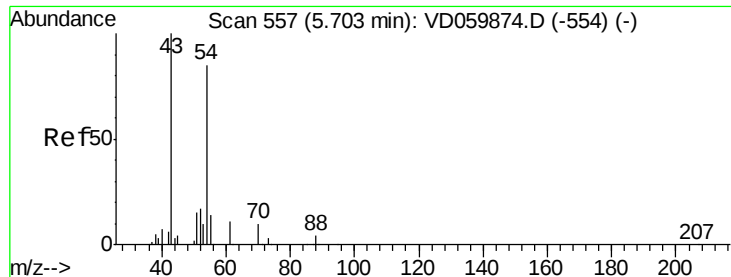
Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 26715 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 34.7  | 18.6  | 56.0  |
| 77       | 32.8  | 25.1  | 37.7  |





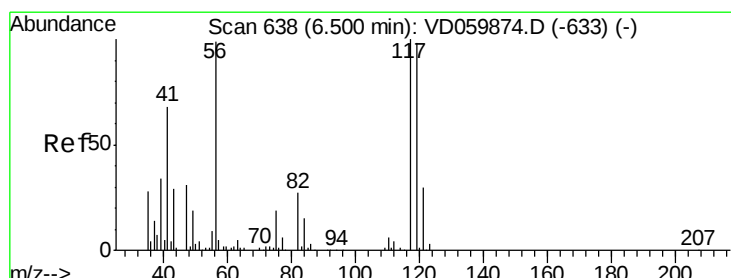
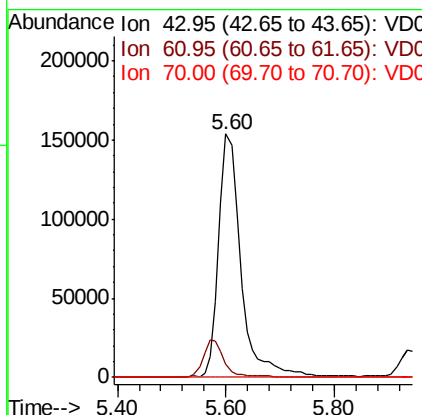
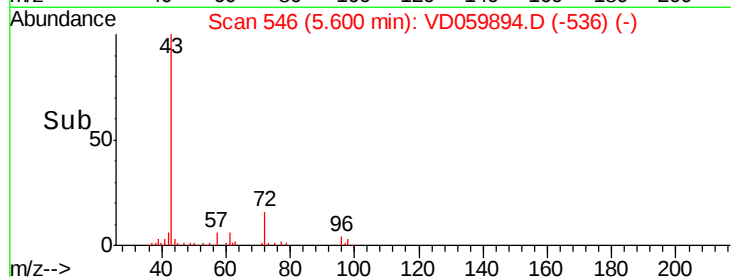
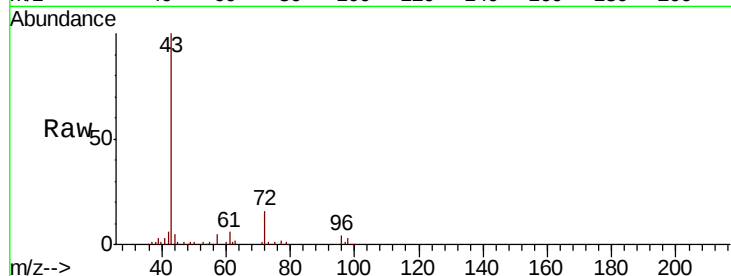
#37  
Ethyl Acetate  
Concen: 587.56 ug/l  
RT: 5.60 min Scan# 546  
Delta R.T. -0.10 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   |      |       |       |
| 61      | 5.6   | 11.0 | 16.6# |       |
| 70      | 0.0   | 5.7  | 8.5#  |       |

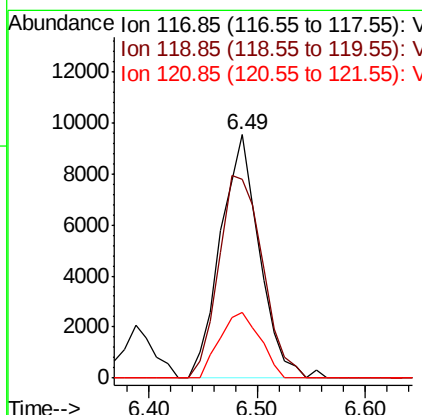
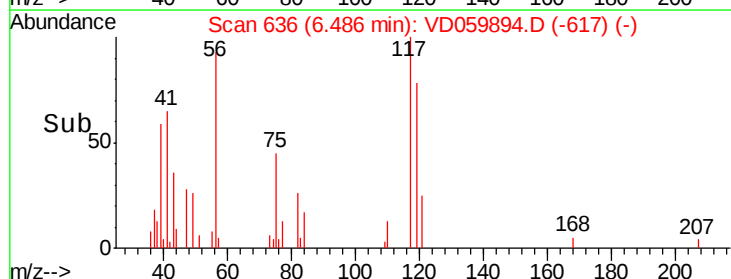
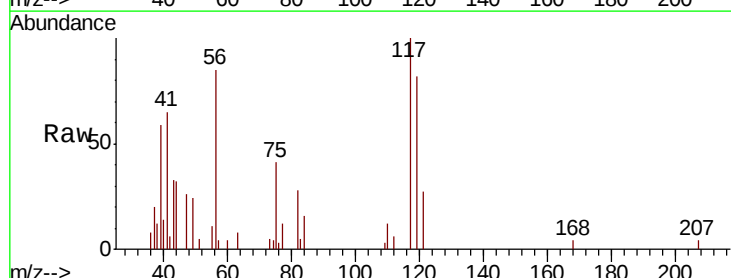
Manual Integrations  
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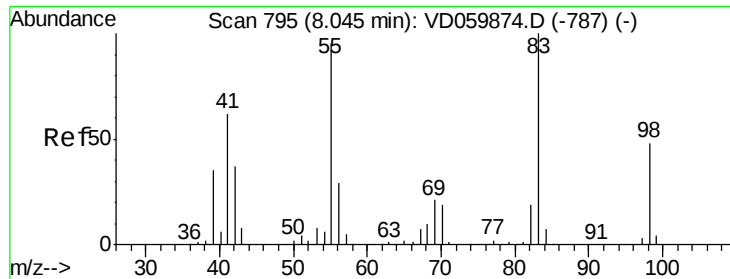
MMDadoda  
8/24/2018 3:09:36 PM



#38  
Carbon Tetrachloride  
Concen: 24.87 ug/l  
RT: 6.49 min Scan# 636  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   |      |       |       |
| 119     | 81.8  | 77.2 | 115.8 |       |
| 121     | 27.0  | 24.0 | 36.0  |       |





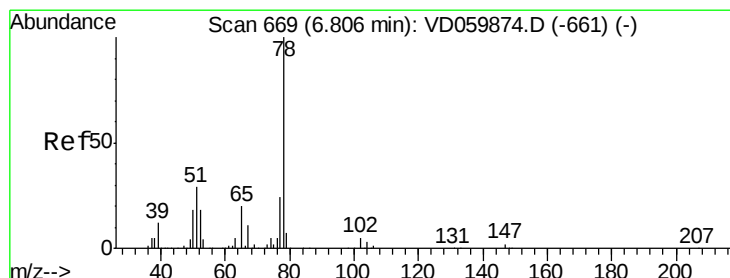
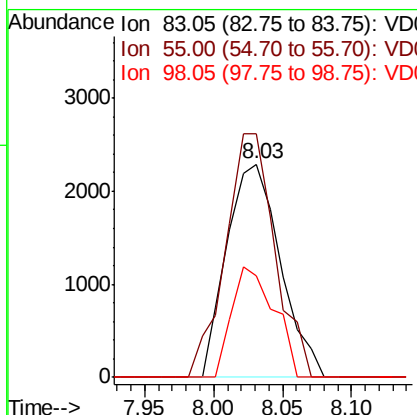
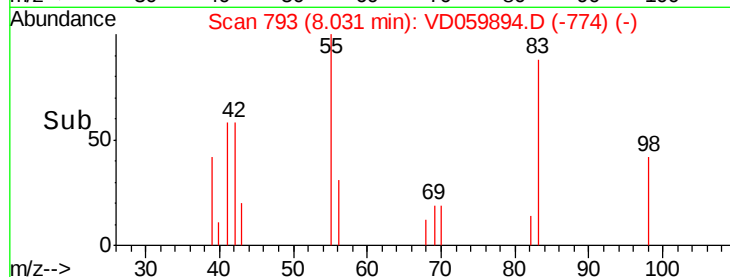
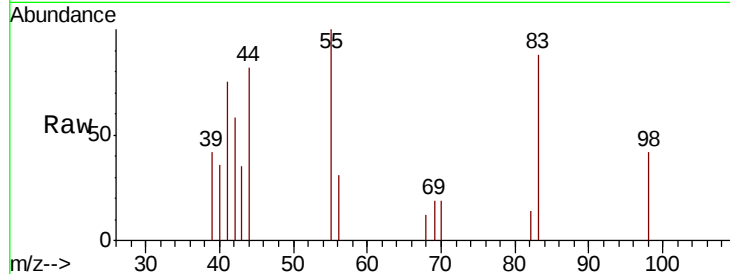
#39  
Methvlcvclohexane  
Concen: 6.05 ug/l  
RT: 8.03 min Scan# 793  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Tot Ion: 83 Resp: 6219  
Ion Ratio Lower Upper  
83 100  
55 114.2 75.8 113.6#  
98 47.5 38.3 57.5

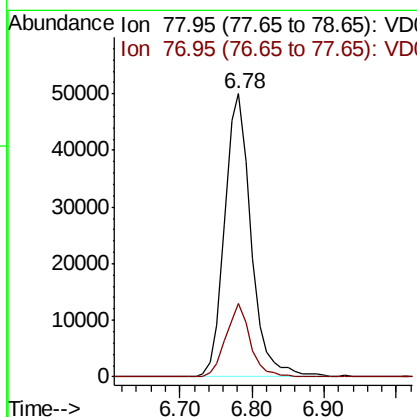
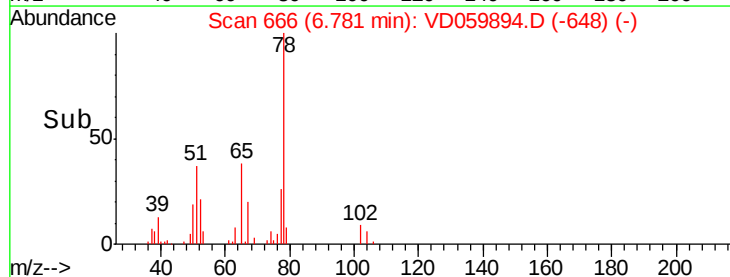
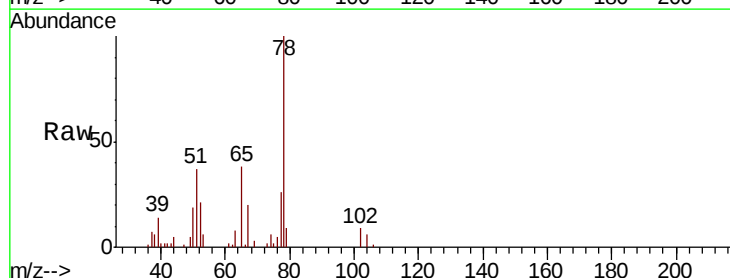
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#40  
Benzene  
Concen: 51.61 ug/l  
RT: 6.78 min Scan# 666  
Delta R.T. -0.02 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Tgt Ion: 78 Resp: 127643  
Ion Ratio Lower Upper  
78 100  
77 26.0 19.0 28.4





#41

Methacrylonitrile

Concen: 183.27 ug/l m

RT: 5.92 min Scan# 578

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

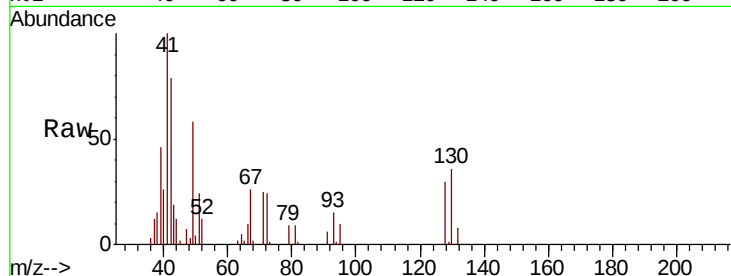
ClientSampleId :

RA-081718-WSW-20-053

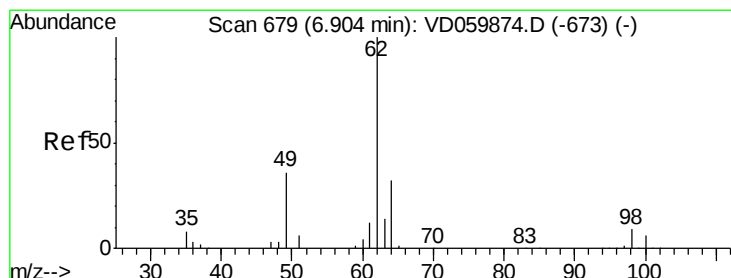
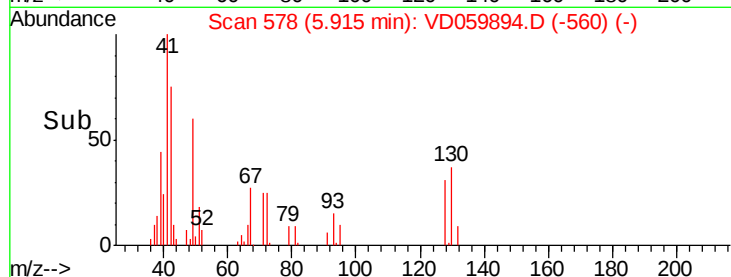
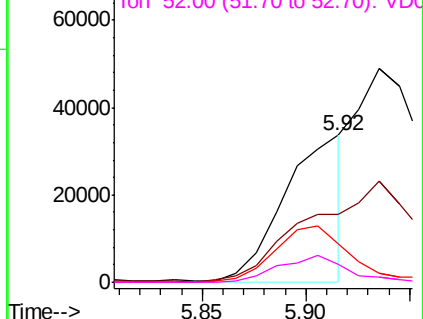
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 46.1  | 39.4  | 59.2  |
| 67      | 26.1  | 22.2  | 33.2  |
| 52      | 12.1  | 10.1  | 15.1  |

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Abundance Ion 40.95 (40.65 to 41.65): VDC  
Ion 38.95 (38.65 to 39.65): VDC  
Ion 67.00 (66.70 to 67.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 86.05 ug/l

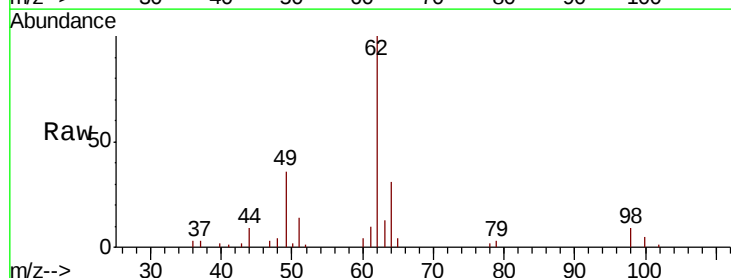
RT: 6.88 min Scan# 676

Delta R.T. -0.02 min

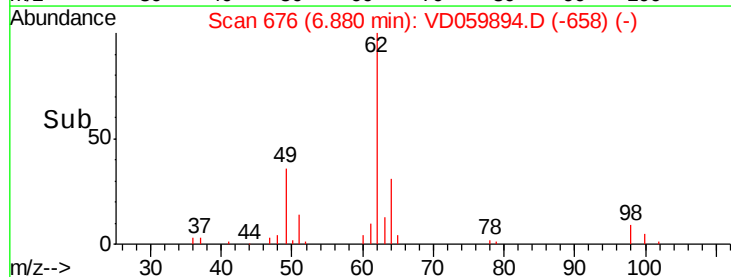
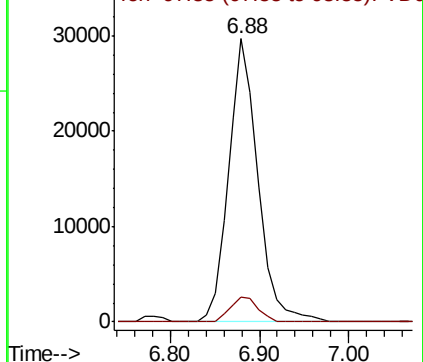
Lab File: VD059894.D

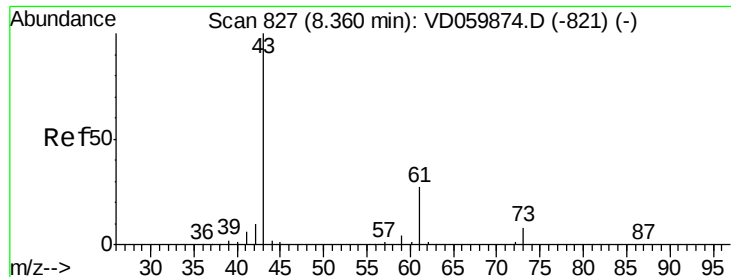
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 8.8   | 0.0   | 18.4  |



Abundance Ion 61.95 (61.65 to 62.65): VDC  
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 9.32 ug/l

RT: 8.34 min Scan# 824

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

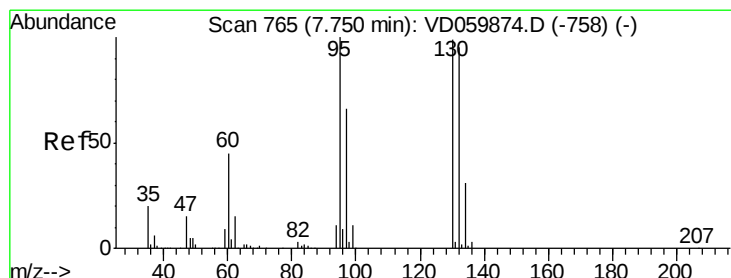
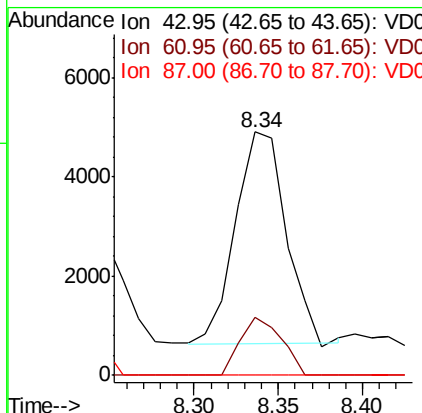
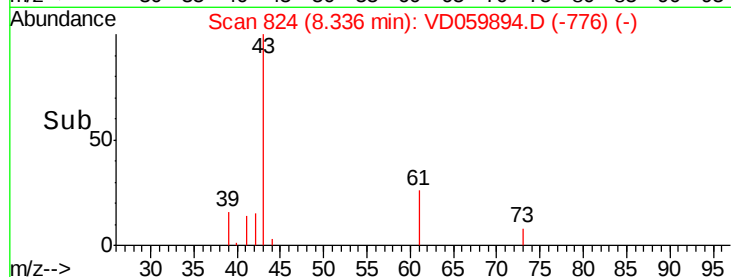
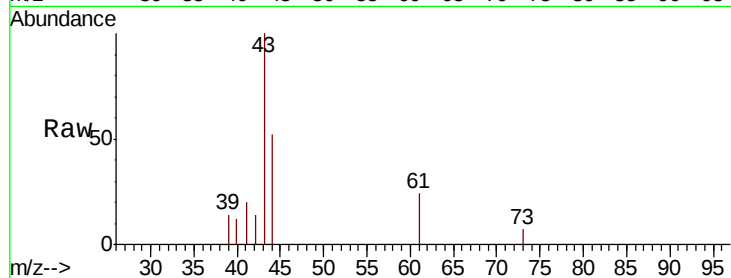
ClientSampleId :

RA-081718-WSW-20-053

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 8974  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 24.0  | 21.4  | 32.2  |
| 87       | 0.0   | 0.2   | 0.4#  |

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#44

Trichloroethene

Concen: 36.50 ug/l

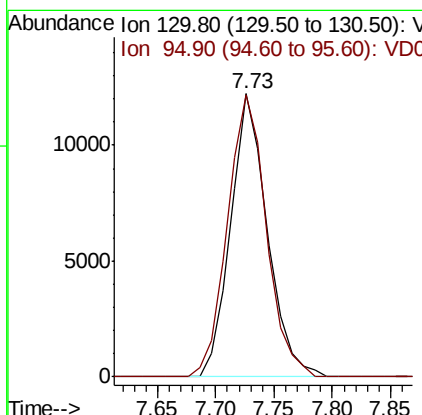
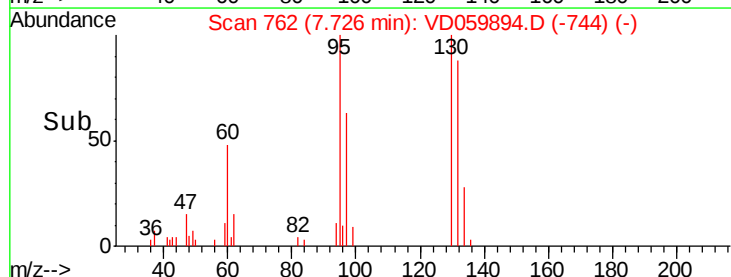
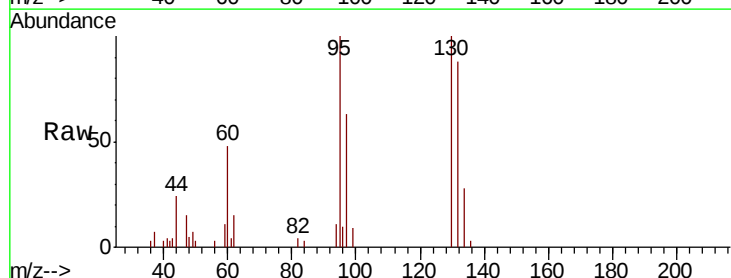
RT: 7.73 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 26583 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 99.9  | 0.0   | 202.0 |





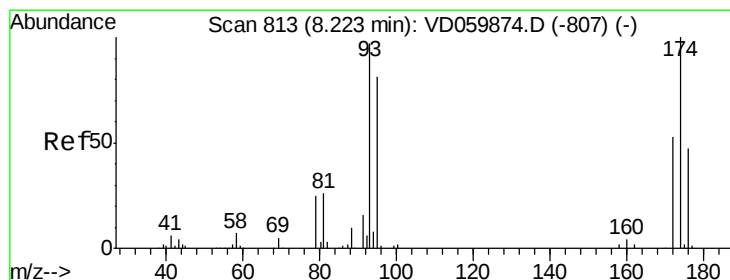
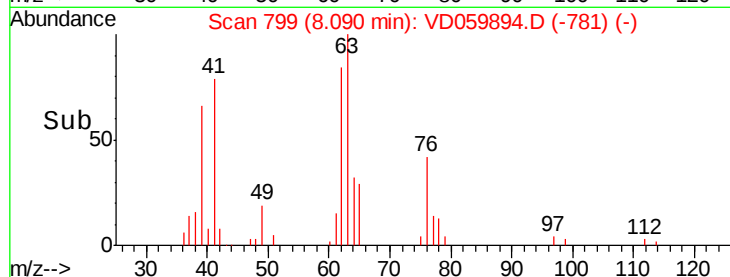
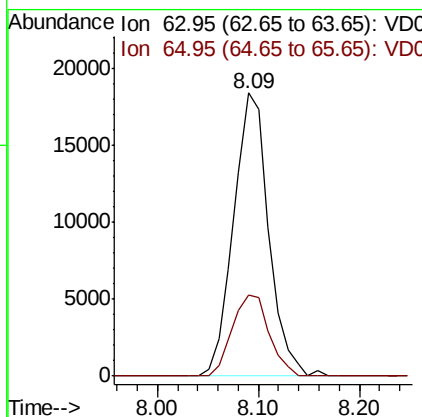
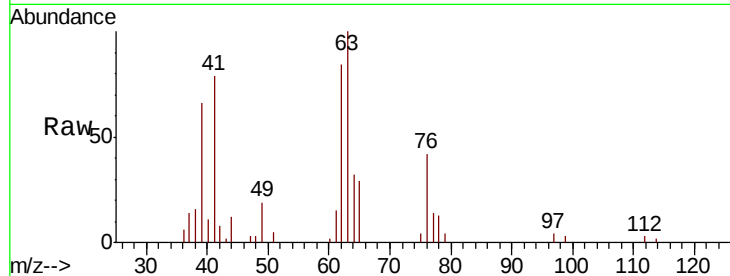
#45  
 1,2-Dichloropropane  
 Concen: 64.37 ug/l  
 RT: 8.09 min Scan# 799  
 Delta R.T. -0.02 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

Tot Ion: 63 Resp: 44501  
 Ion Ratio Lower Upper  
 63 100  
 65 28.7 23.5 35.3

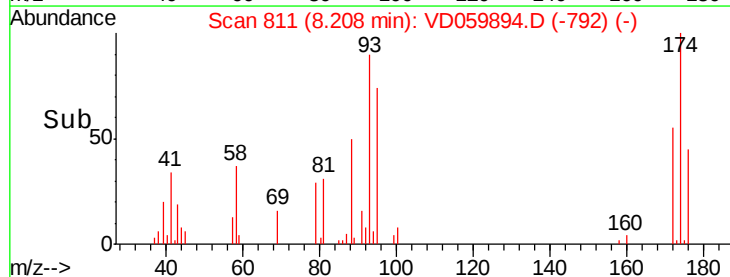
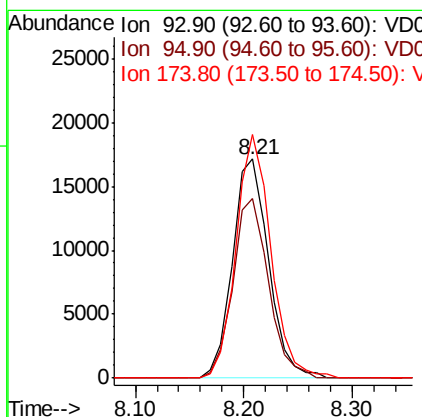
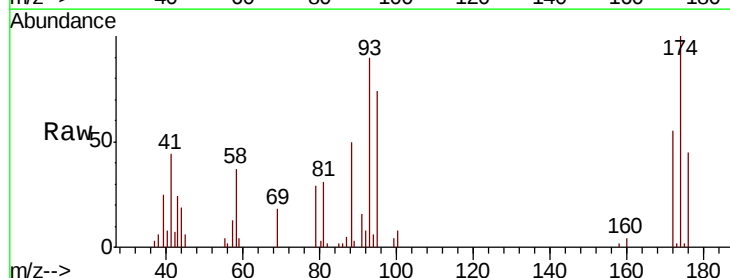
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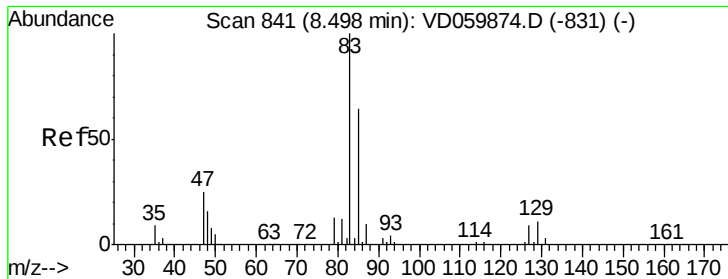
MMDadoda  
 8/24/2018 3:09:36 PM



#46  
 Dibromomethane  
 Concen: 89.33 ug/l  
 RT: 8.21 min Scan# 811  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Tgt Ion: 93 Resp: 39711  
 Ion Ratio Lower Upper  
 93 100  
 95 82.2 66.6 100.0  
 174 111.1 82.4 123.6





#47

Bromodichloromethane

Concen: 67.94 ug/l

RT: 8.48 min Scan# 839

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

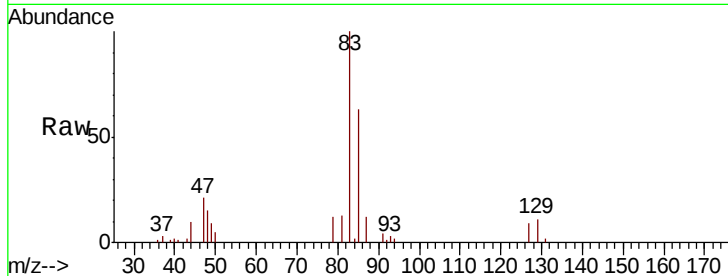
ClientSampleId :

RA-081718-WSW-20-053

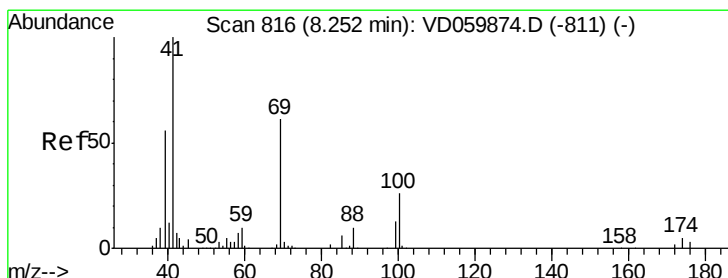
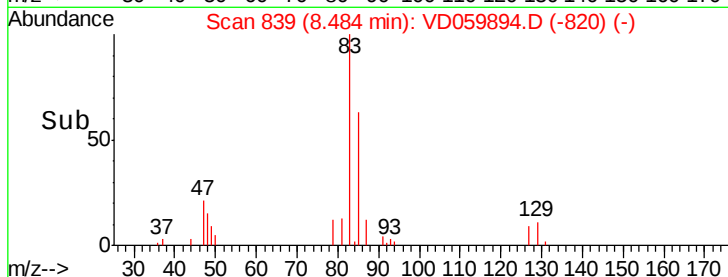
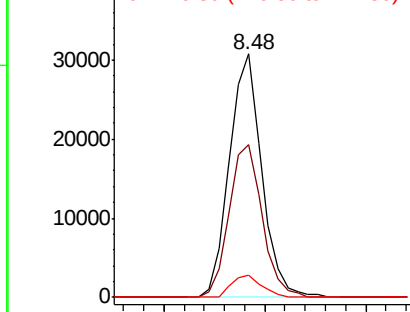
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 68368 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 62.9  | 51.3  | 76.9  |
| 127      | 9.1   | 7.0   | 10.4  |

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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: 209.45 ug/l

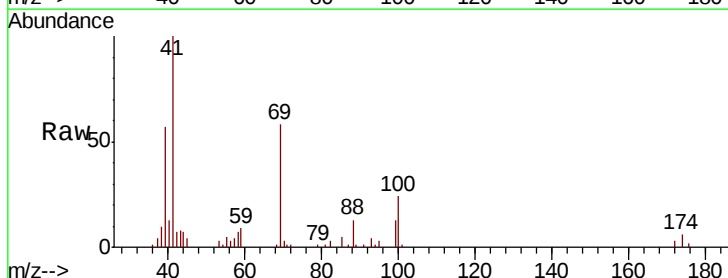
RT: 8.24 min Scan# 814

Delta R.T. -0.01 min

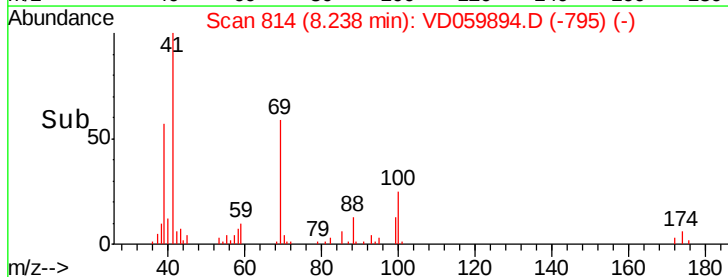
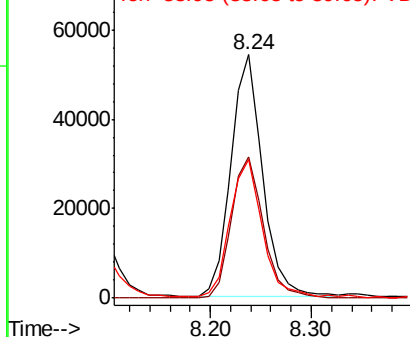
Lab File: VD059894.D

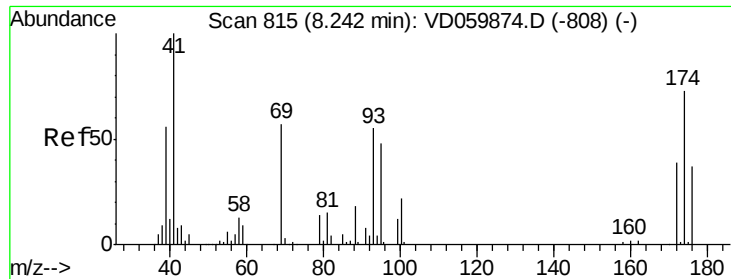
Acq: 23 Aug 2018 18:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 117577 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 58.2  | 48.0  | 72.0   |
| 39       | 57.0  | 45.4  | 68.0   |



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





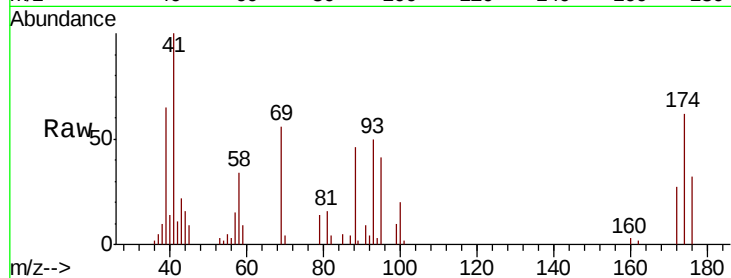
#49  
 1,4-Dioxane  
 Concen: 6184.64 ug/l  
 RT: 8.22 min Scan# 812  
 Delta R.T. -0.02 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

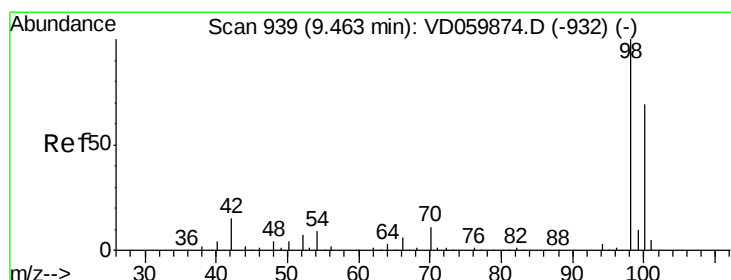
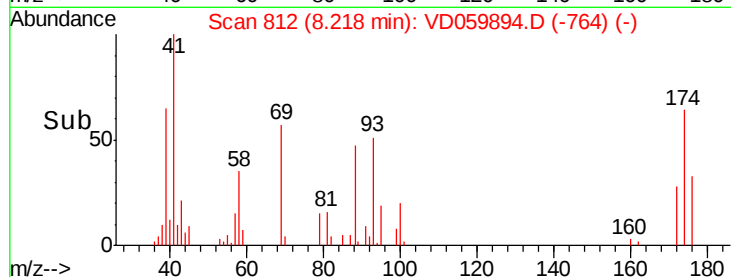
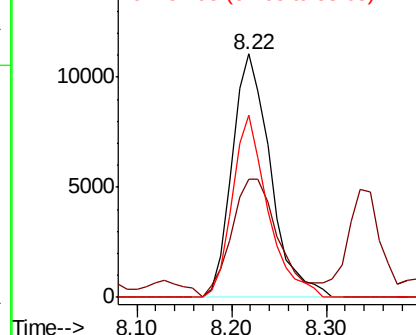
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 88      | 100   |      |       |       |
| 43      | 48.3  | 45.0 | 67.6  |       |
| 58      | 74.8  | 55.8 | 83.8  |       |

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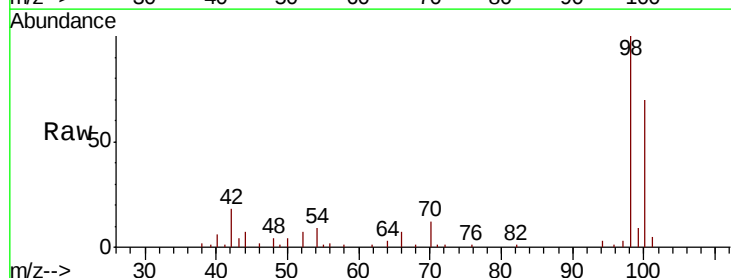


Abundance Ion 88.00 (87.70 to 88.70): VDC  
 Ion 43.05 (42.75 to 43.75): VDC  
 Ion 57.95 (57.65 to 58.65): VDC

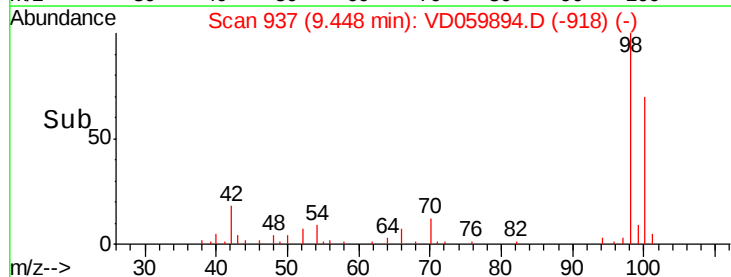
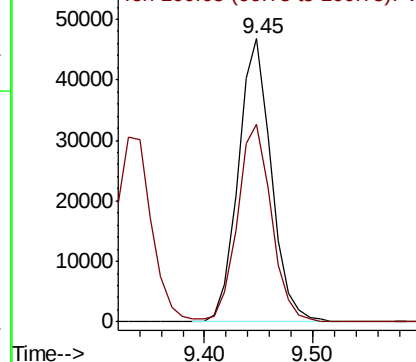


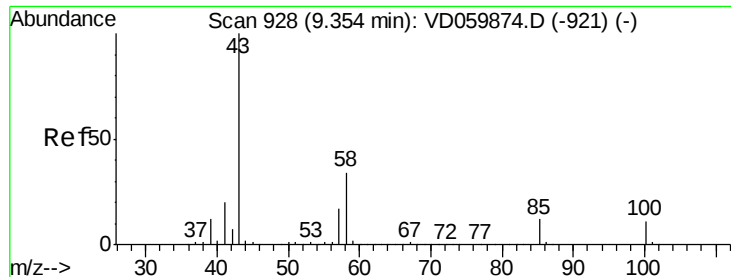
#50  
 Toluene-d8  
 Concen: 6184.64 ug/l  
 RT: 9.45 min Scan# 937  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 98      | 100   |      |       |       |
| 100     | 69.6  | 55.8 | 83.6  |       |



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: 1062.28 ug/l

RT: 9.33 min Scan# 925

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 43 Resp: 762648

Ion Ratio Lower Upper

43 100

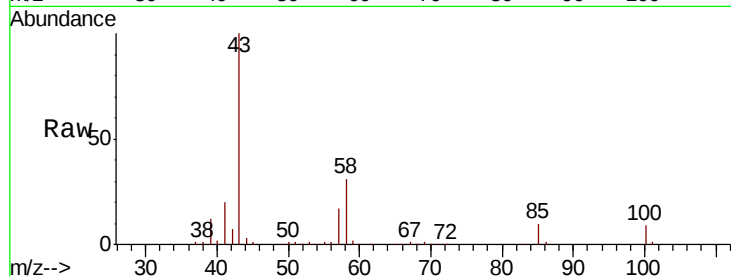
58 31.3 27.0 40.4

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.33

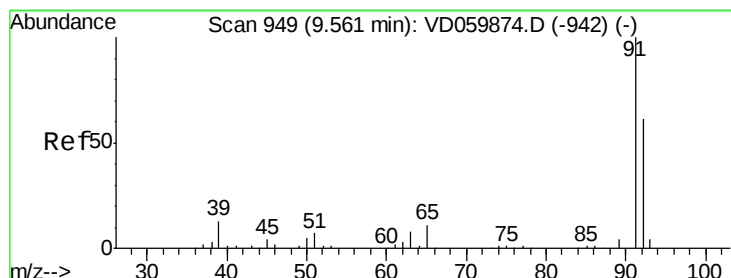
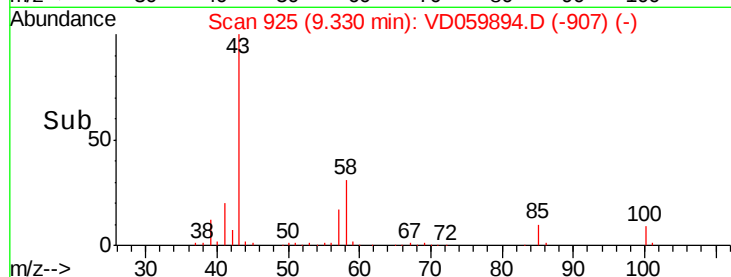
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 43.19 ug/l

RT: 9.54 min Scan# 946

Delta R.T. -0.02 min

Lab File: VD059894.D

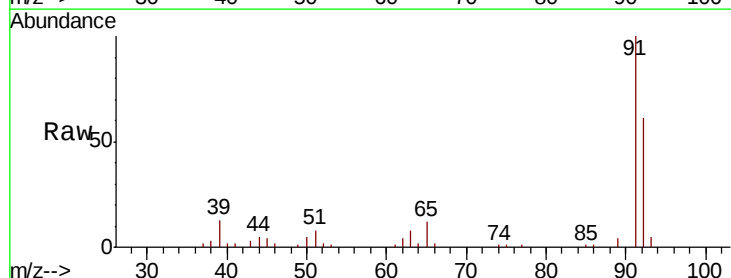
Acq: 23 Aug 2018 18:01

Tgt Ion: 92 Resp: 68499

Ion Ratio Lower Upper

92 100

91 162.8 131.4 197.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

9.54

60000

50000

40000

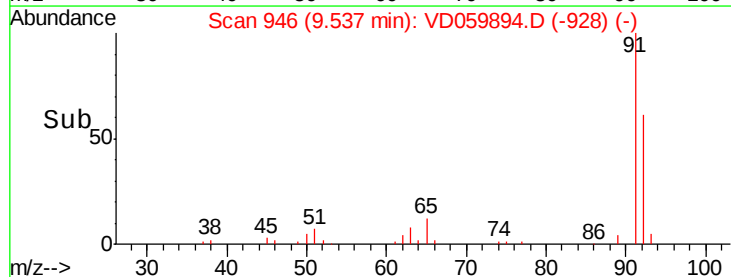
30000

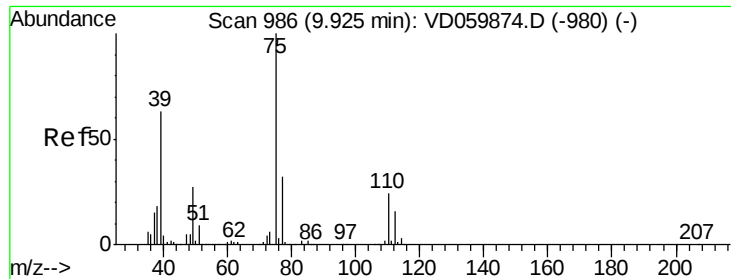
20000

10000

0

Time-->





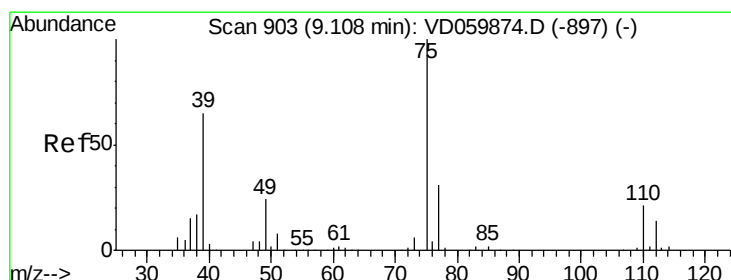
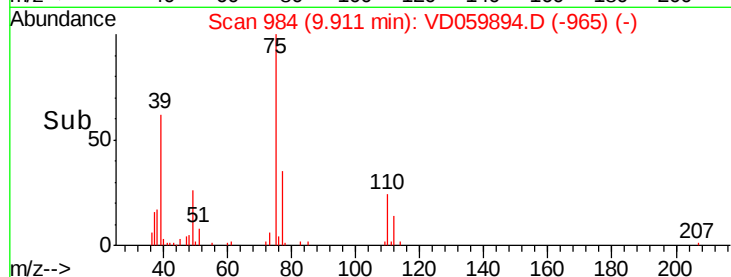
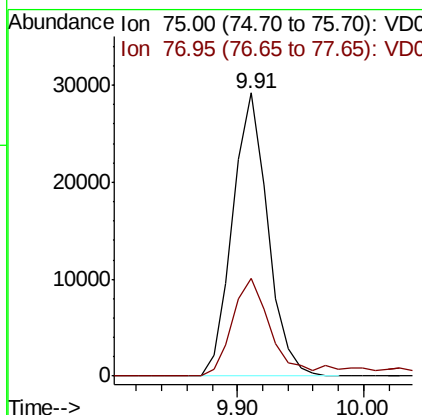
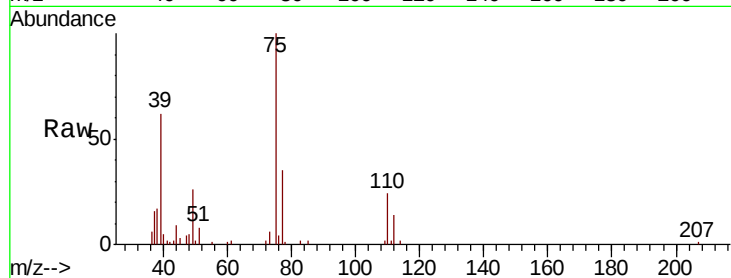
#53  
 t-1,3-Dichloropropene  
 Concen: 60.32 ug/l  
 RT: 9.91 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

Tot Ion: 75 Resp: 56144  
 Ion Ratio Lower Upper  
 75 100  
 77 34.5 25.4 38.2

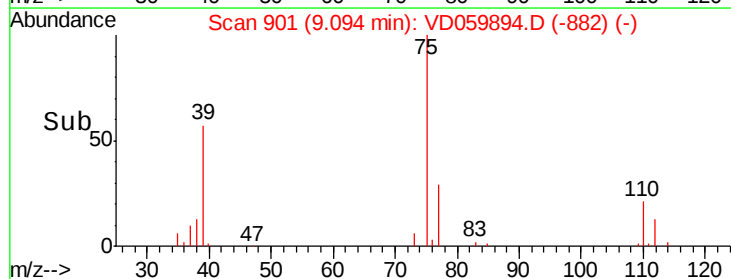
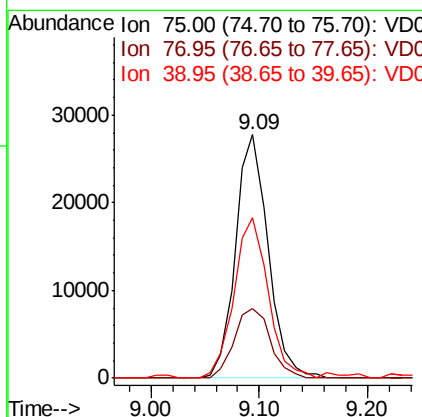
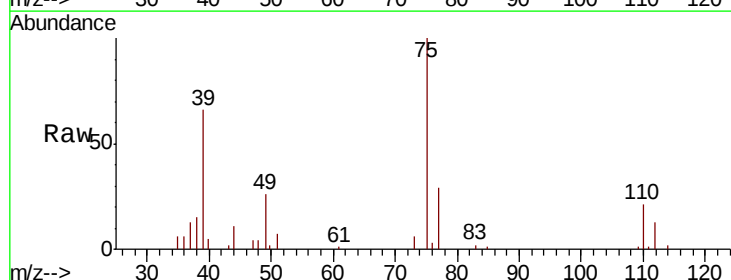
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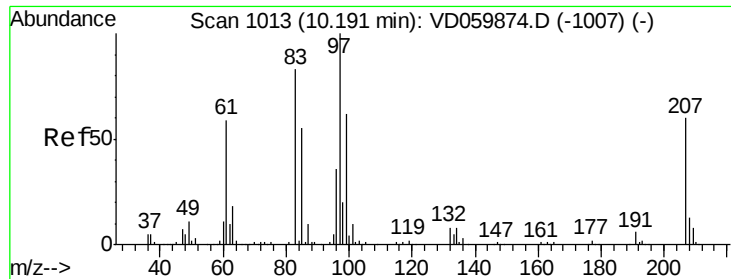
MMDadoda  
 8/24/2018 3:09:36 PM



#54  
 cis-1,3-Dichloropropene  
 Concen: 53.66 ug/l  
 RT: 9.09 min Scan# 901  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Tgt Ion: 75 Resp: 57912  
 Ion Ratio Lower Upper  
 75 100  
 77 28.7 24.8 37.2  
 39 66.0 52.1 78.1





#55

1,1,2-Trichloroethane

Concen: 93.94 ug/l

RT: 10.18 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

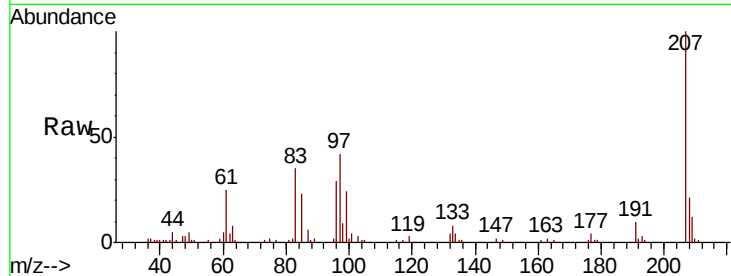
RA-081718-WSW-20-053

Tot Ion: 97 Resp: 54460

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 81.9  | 66.7  | 100.1 |
| 85  | 54.5  | 43.8  | 65.6  |
| 99  | 55.6  | 49.8  | 74.6  |

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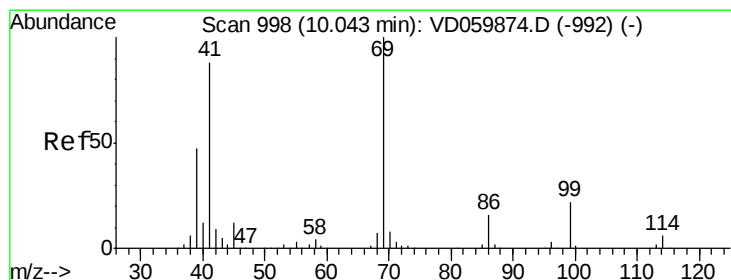
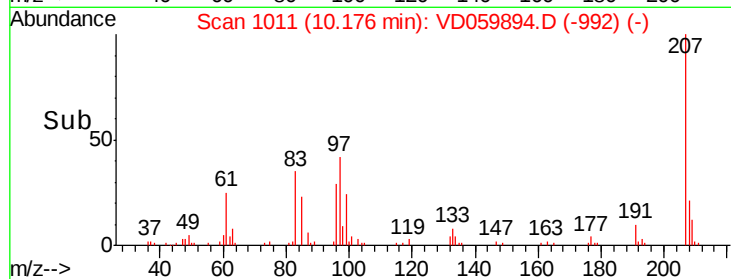
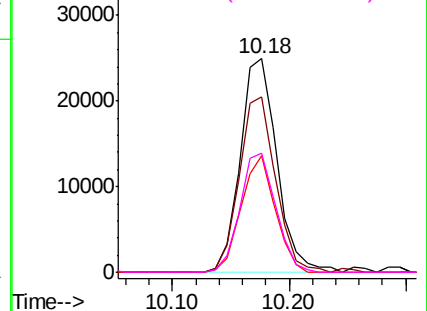


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 26.83 ug/l

RT: 10.02 min Scan# 995

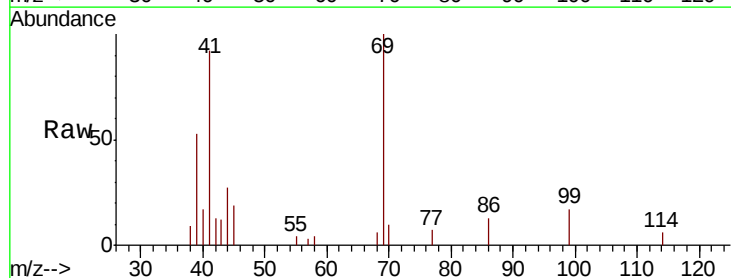
Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Tgt Ion: 69 Resp: 17954

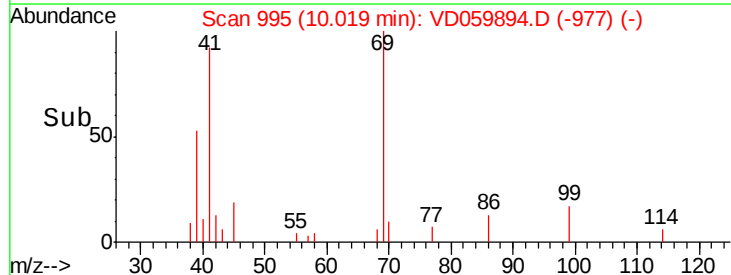
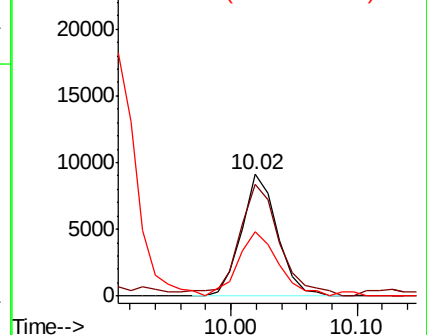
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 92.2  | 71.0  | 106.4 |
| 39  | 52.9  | 38.5  | 57.7  |

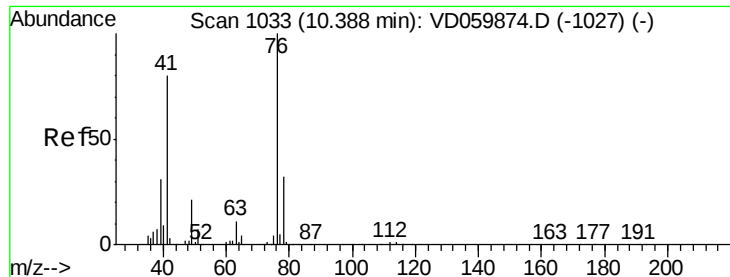


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





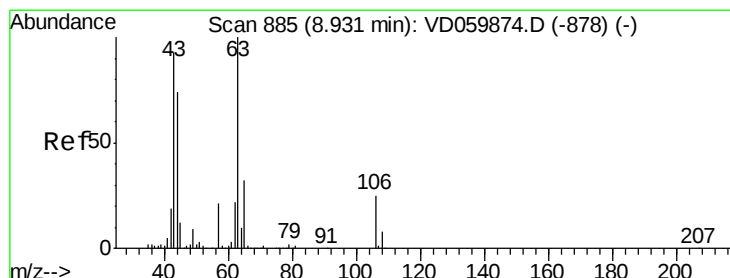
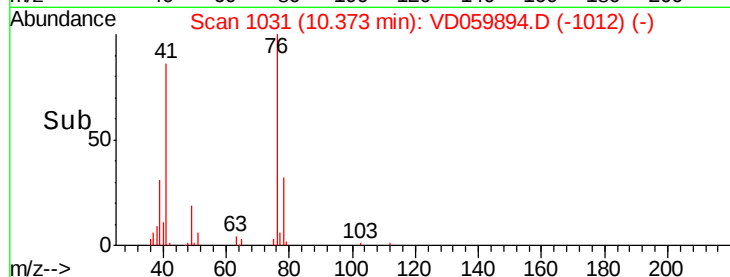
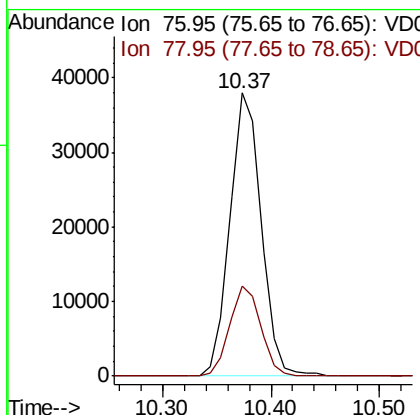
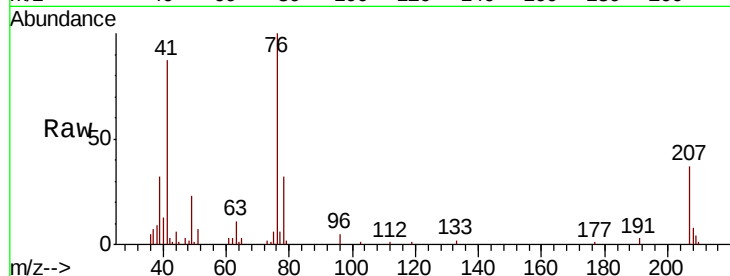
#57  
 1,3-Dichloropropane  
 Concen: 91.02 ug/l  
 RT: 10.37 min Scan# 1031  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

Tot Ion: 76 Resp: 76376  
 Ion Ratio Lower Upper  
 76 100  
 78 31.7 25.8 38.6

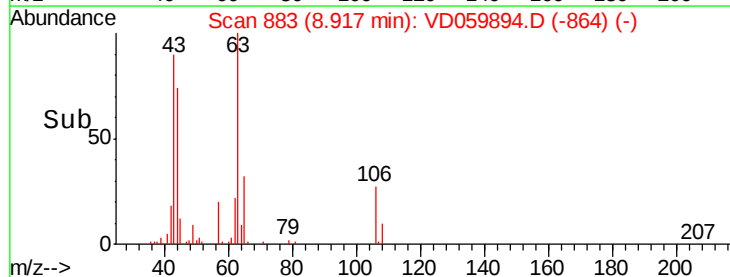
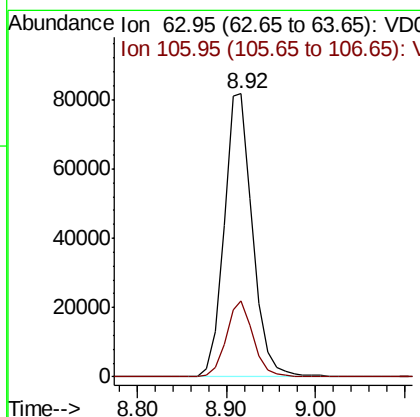
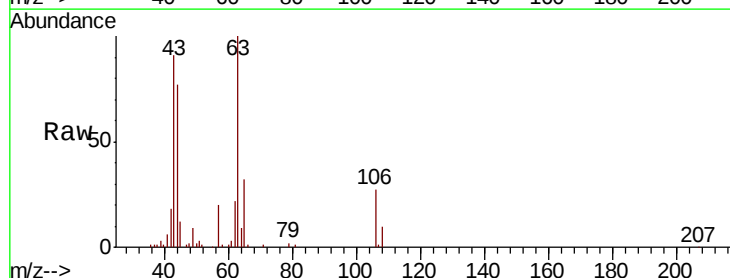
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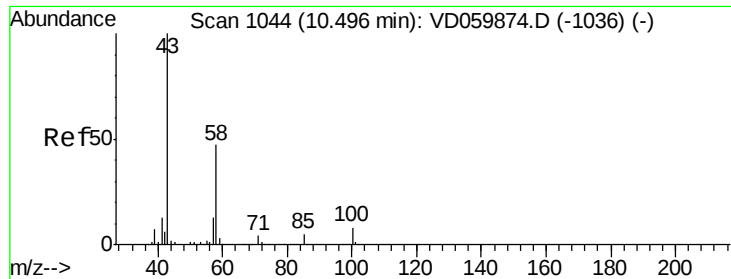
MMDadoda  
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#58  
 2-Chloroethyl Vinyl ether  
 Concen: 566.81 ug/l  
 RT: 8.92 min Scan# 883  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Tgt Ion: 63 Resp: 181933  
 Ion Ratio Lower Upper  
 63 100  
 106 27.1 20.1 30.1





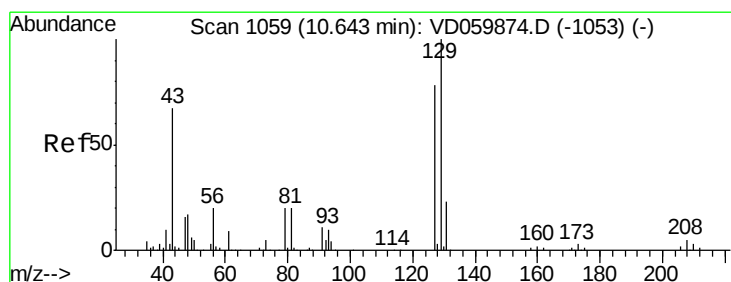
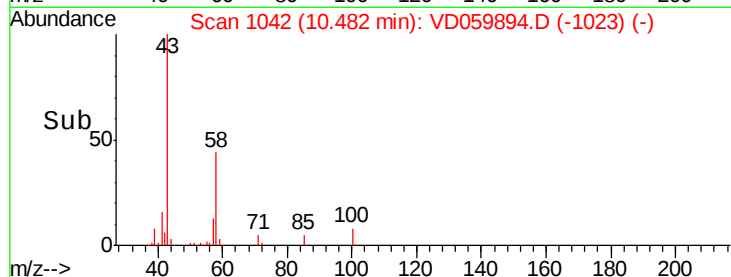
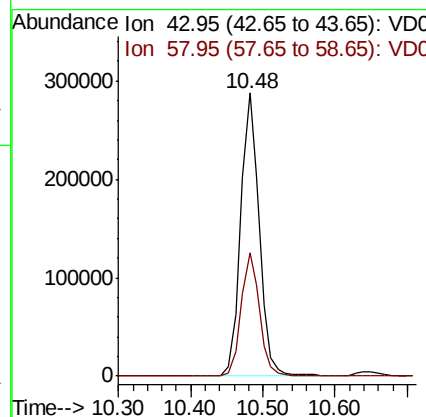
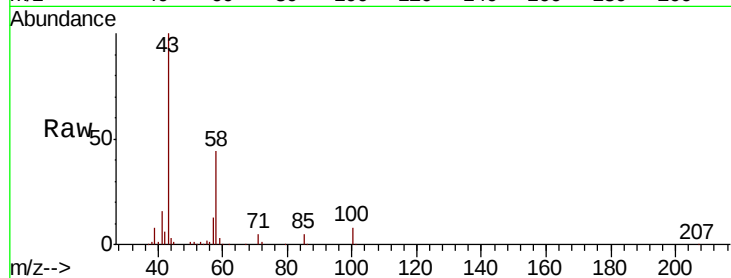
#59  
2-Hexanone  
Concen: 979.43 ug/l  
RT: 10.48 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Tot Ion: 43 Resp: 518641  
Ion Ratio Lower Upper  
43 100  
58 43.5 23.3 69.8

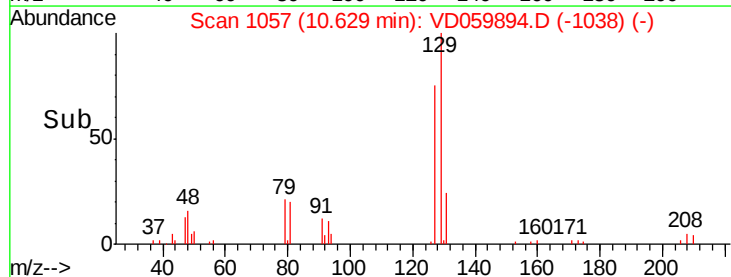
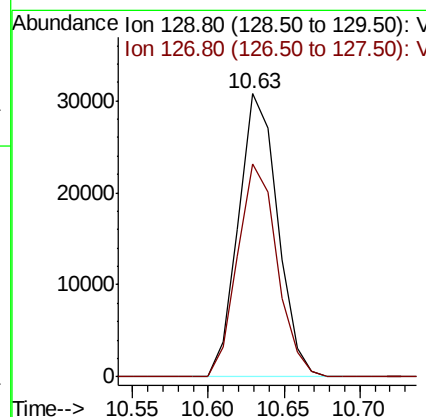
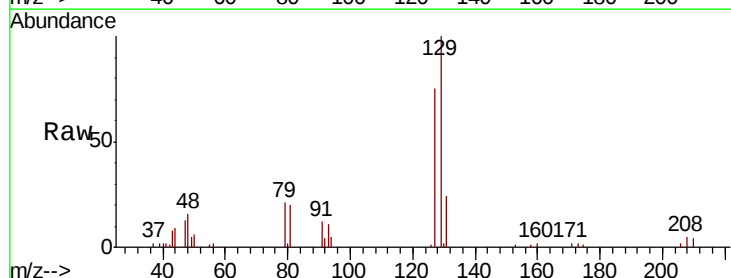
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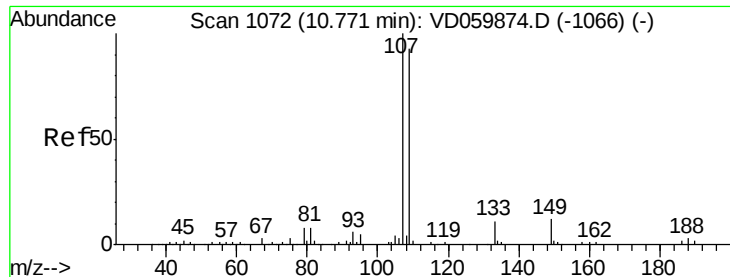
MMDadoda  
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#60  
Dibromochloromethane  
Concen: 76.30 ug/l  
RT: 10.63 min Scan# 1057  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Tgt Ion: 129 Resp: 55597  
Ion Ratio Lower Upper  
129 100  
127 75.3 39.1 117.2





#61

1,2-Dibromoethane

Concen: 89.38 ug/l

RT: 10.75 min Scan# 1069

Delta R.T. -0.02 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:107 Resp: 52394

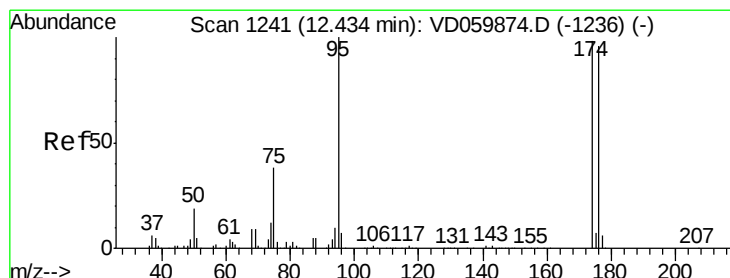
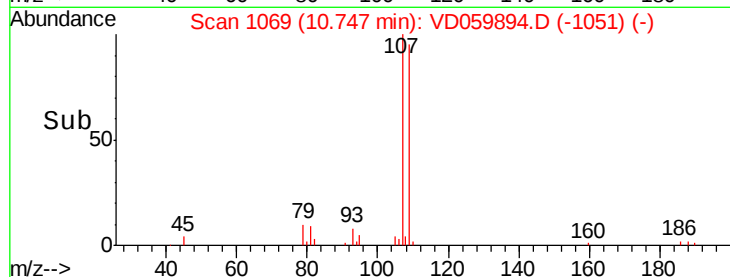
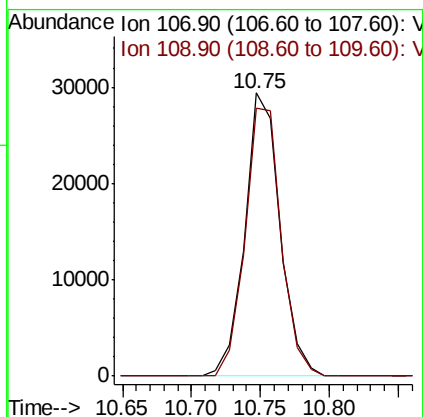
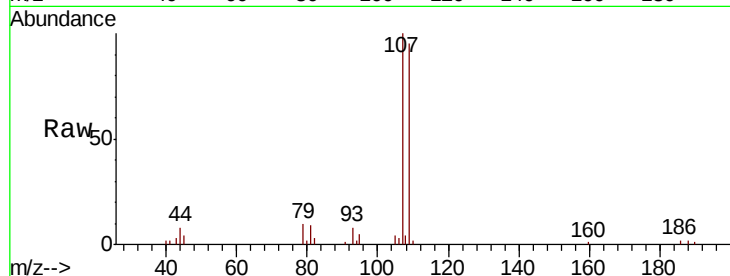
Ion Ratio Lower Upper

107 100

109 94.6 74.6 112.0

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#62

4-Bromofluorobenzene

Concen: 89.38 ug/l

RT: 12.42 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

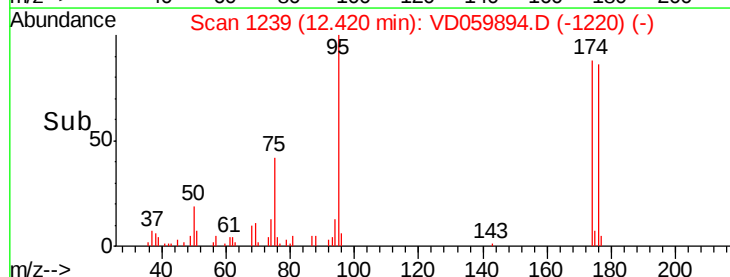
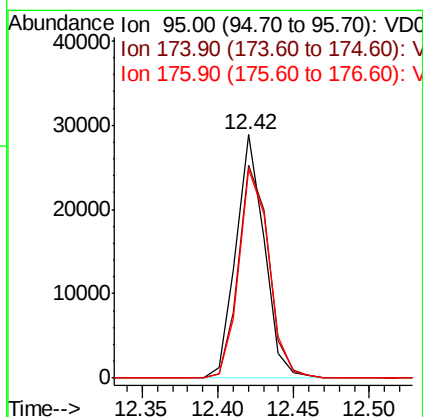
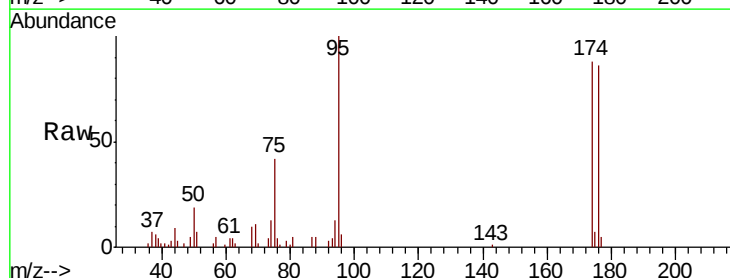
Tgt Ion: 95 Resp: 37400

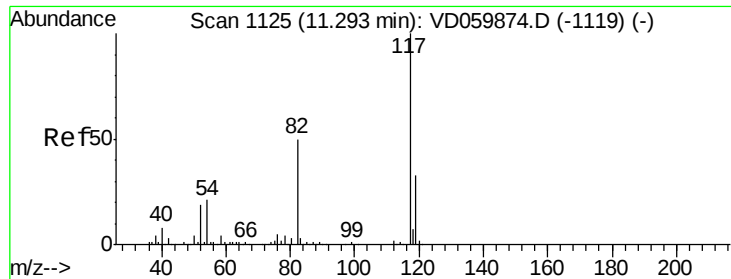
Ion Ratio Lower Upper

95 100

174 87.6 0.0 195.6

176 85.9 0.0 191.2





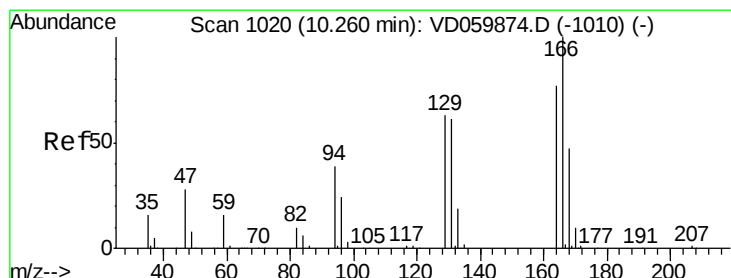
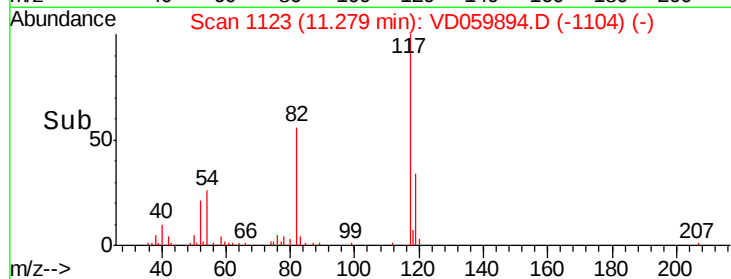
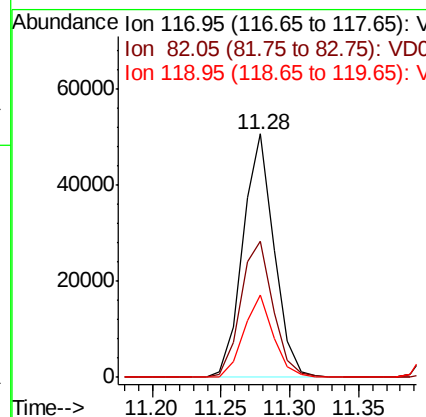
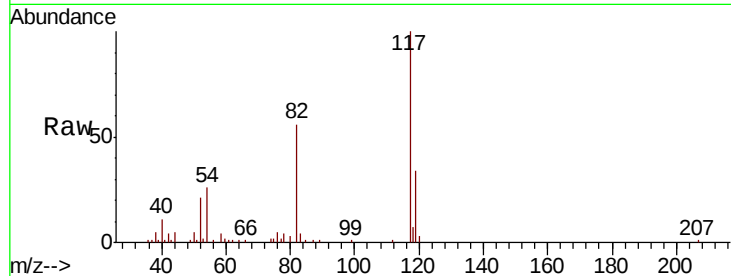
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.28 min Scan# 1123  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.7  | 40.1  | 60.1  |
| 119     | 33.8  | 26.7  | 40.1  |

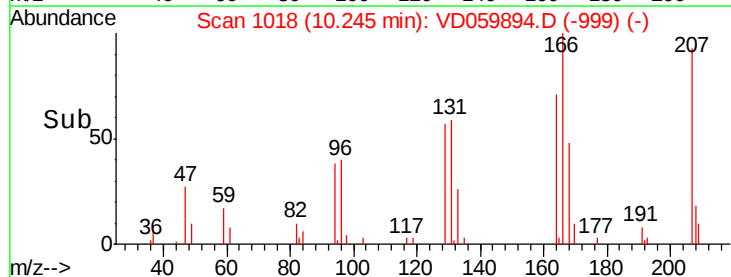
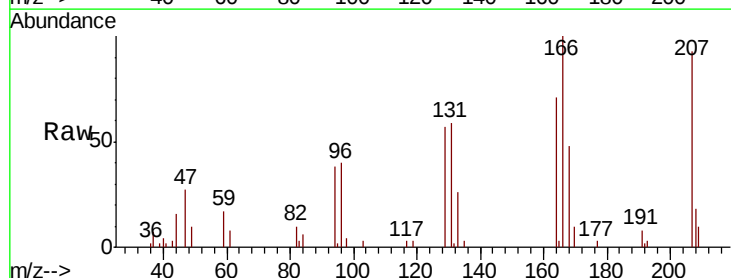
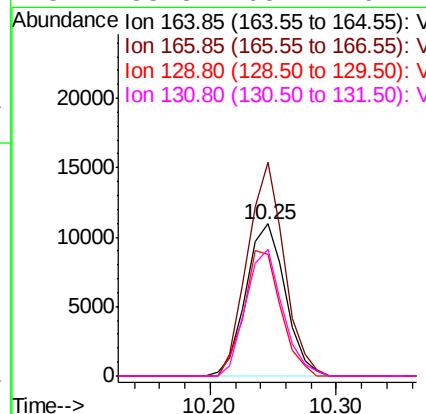
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#64  
Tetrachloroethene  
Concen: 38.34 ug/l  
RT: 10.25 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 140.7 | 103.4 | 155.2 |
| 129     | 80.4  | 65.2  | 97.8  |
| 131     | 83.3  | 63.1  | 94.7  |





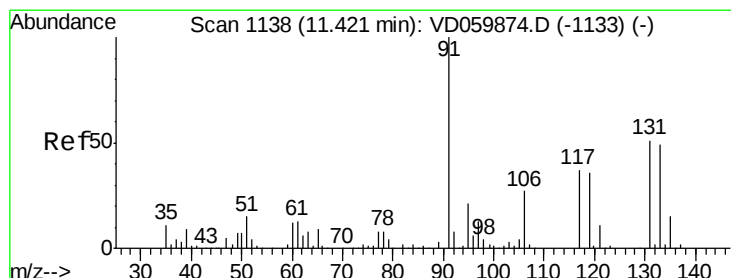
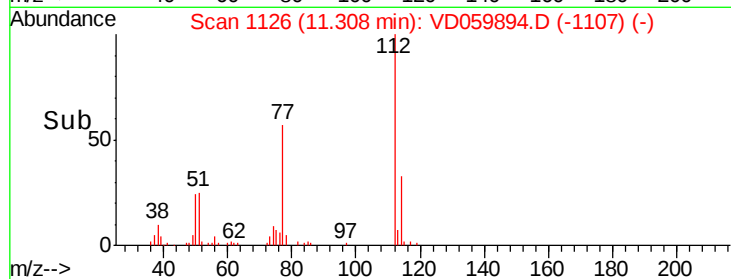
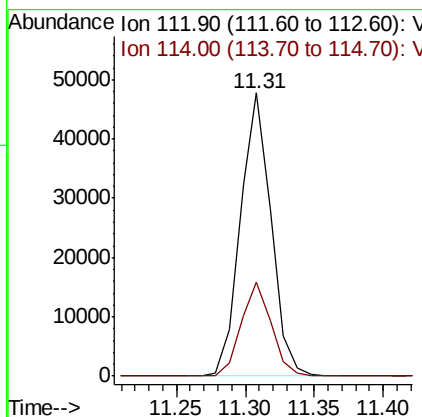
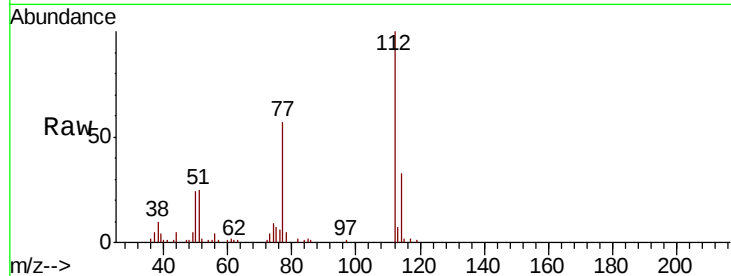
#65  
Chlorobenzene  
Concen: 46.54 ug/l  
RT: 11.31 min Scan# 1126  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 33.2  | 26.4  | 39.6  |

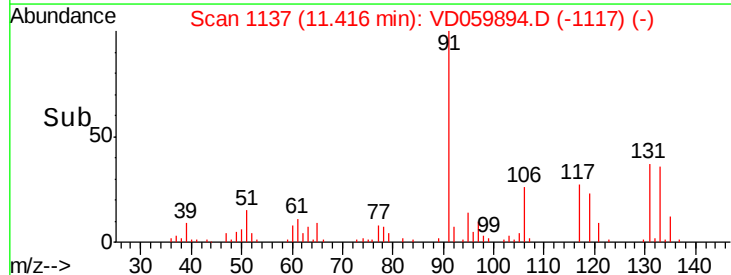
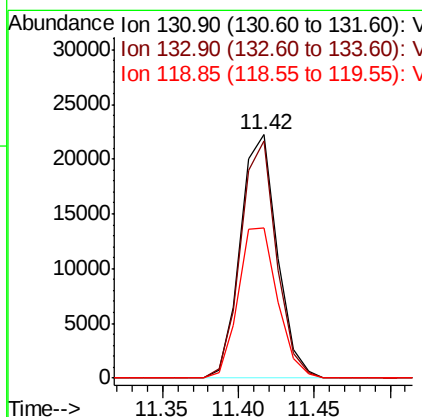
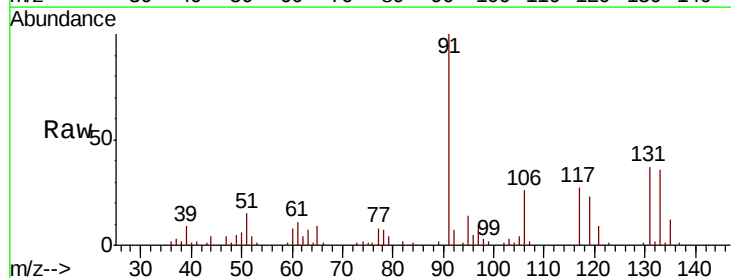
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#66  
1,1,1,2-Tetrachloroethane  
Concen: 64.82 ug/l  
RT: 11.42 min Scan# 1137  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 97.3  | 48.3  | 144.8 |
| 119     | 61.8  | 35.4  | 106.3 |





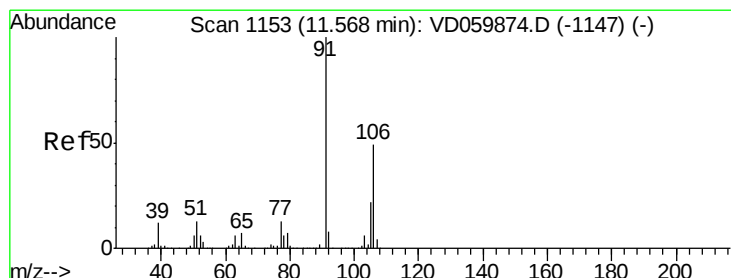
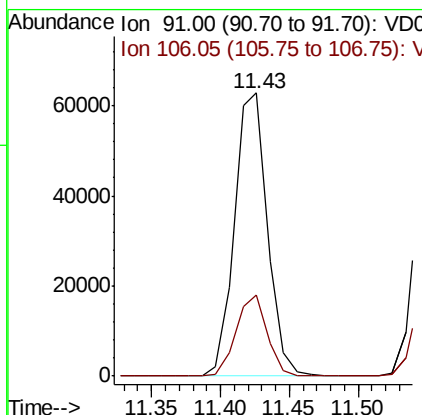
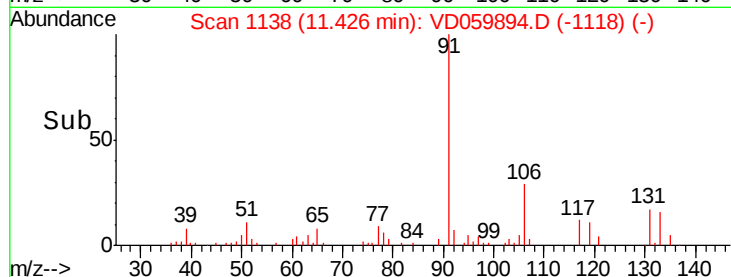
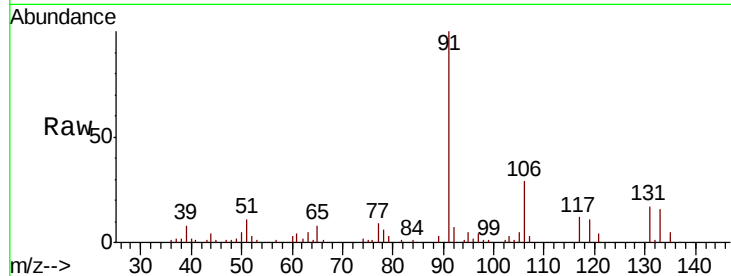
#67  
Ethyl Benzene  
Concen: 39.11 ug/l  
RT: 11.43 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

Tot Ion: 91 Resp: 104260  
Ion Ratio Lower Upper  
91 100  
106 28.6 23.8 35.8

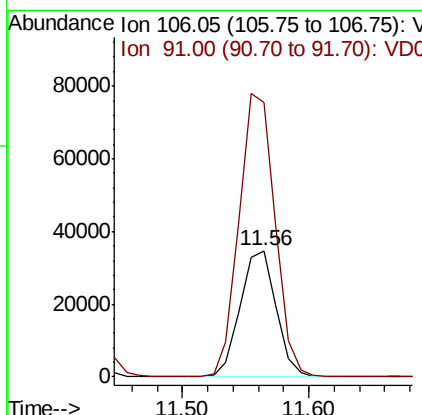
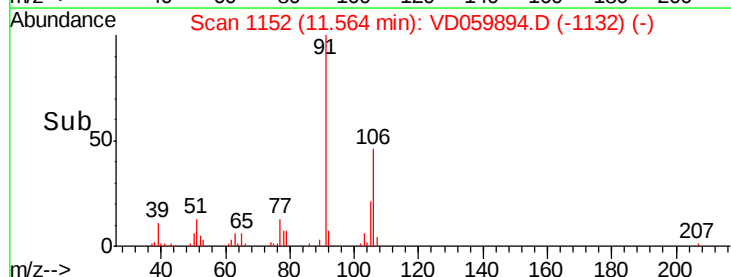
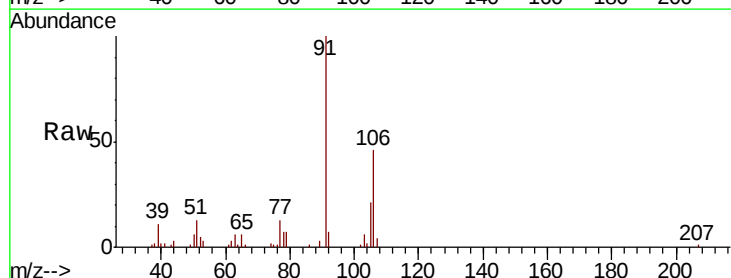
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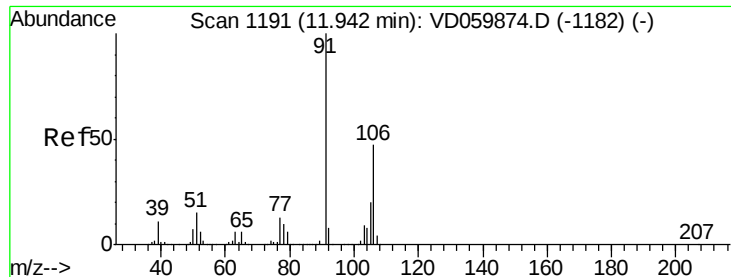
MMDadoda  
8/24/2018 3:09:36 PM



#68  
m/p-Xylenes  
Concen: 70.56 ug/l  
RT: 11.56 min Scan# 1152  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Tgt Ion:106 Resp: 68487  
Ion Ratio Lower Upper  
106 100  
91 217.2 162.0 243.0





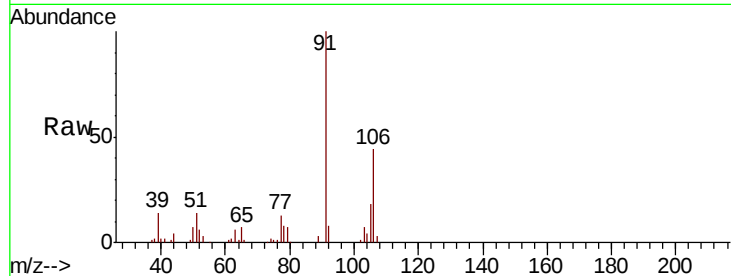
#69  
o-Xylene  
Concen: 40.73 ug/l  
RT: 11.93 min Scan# 1189  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

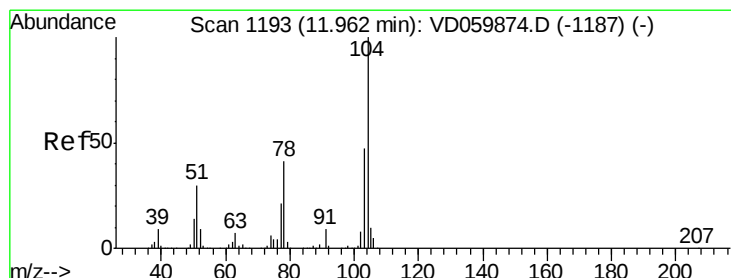
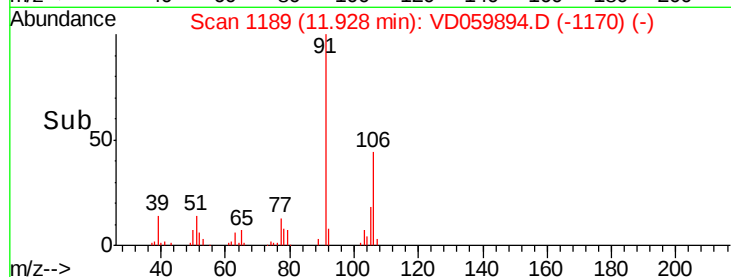
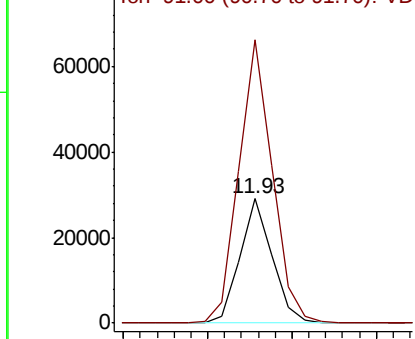
| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 106     | 100   |       |       |       |
| 91      | 227.8 | 107.3 | 322.0 |       |

Manual Integrations  
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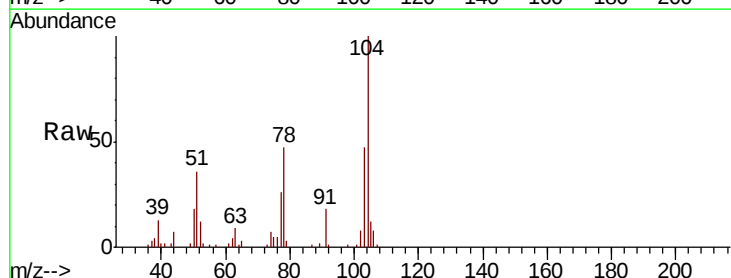


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

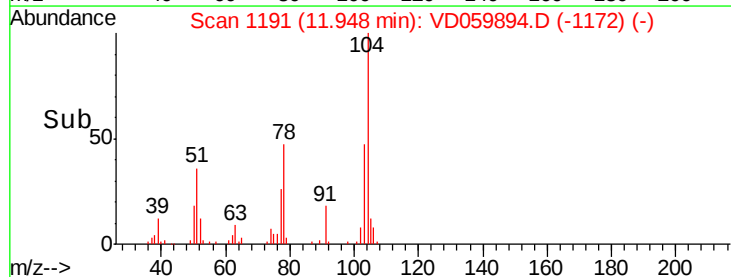
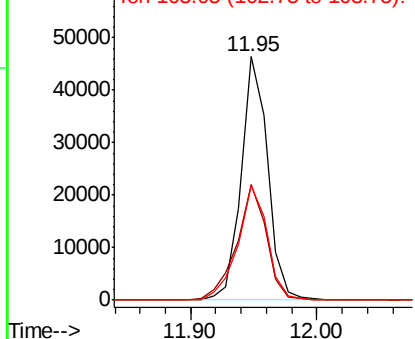


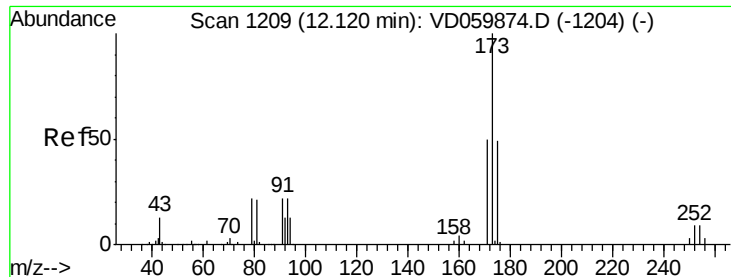
#70  
Styrene  
Concen: 40.83 ug/l  
RT: 11.95 min Scan# 1191  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 104     | 100  |       |       |       |
| 78      | 47.3 | 32.6  | 49.0  |       |
| 103     | 47.2 | 37.7  | 56.5  |       |



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: 94.19 ug/l

RT: 12.12 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

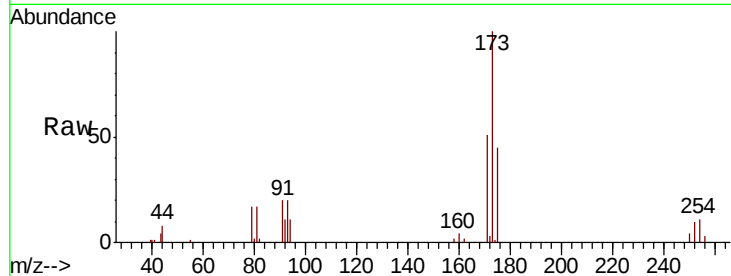
ClientSampleId :

RA-081718-WSW-20-053

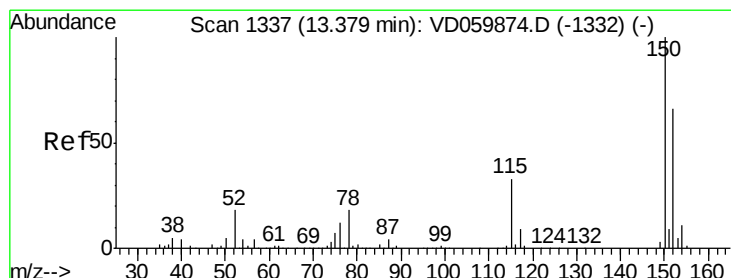
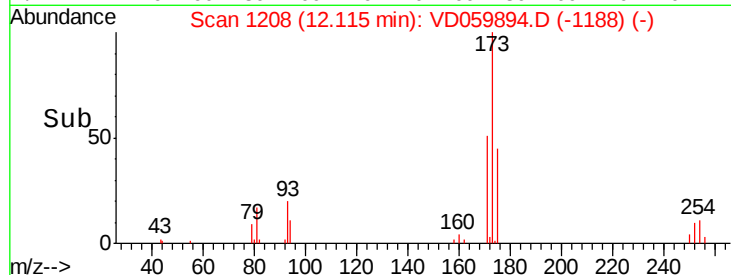
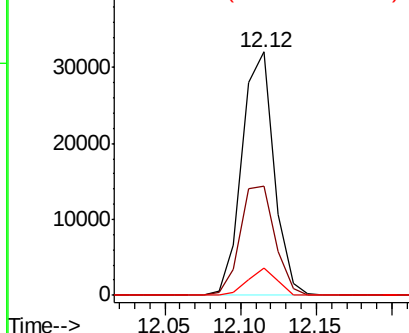
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 45.0  | 24.3  | 73.0  |
| 254     | 11.3  | 7.0   | 10.6  |

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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

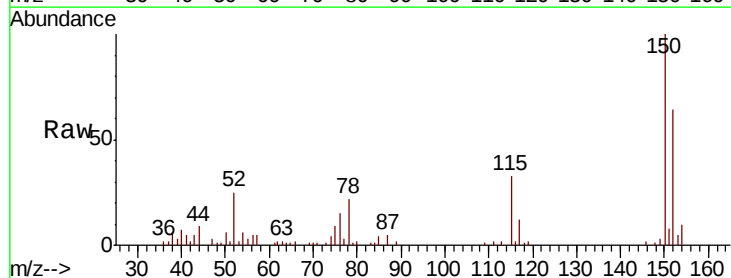
RT: 13.36 min Scan# 1335

Delta R.T. -0.01 min

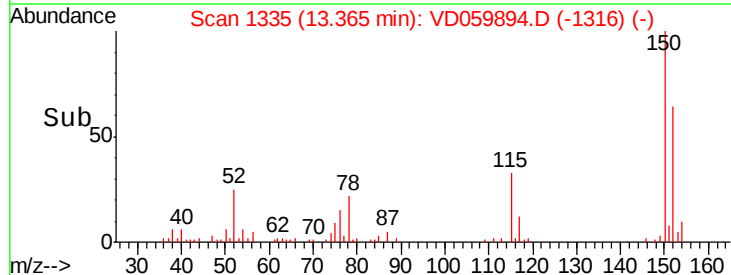
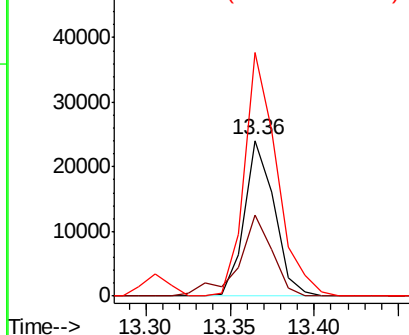
Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 51.8  | 25.7  | 77.0  |
| 150     | 156.6 | 0.0   | 310.2 |



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: 32.48 ug/l

RT: 12.27 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 105 Resp: 61706

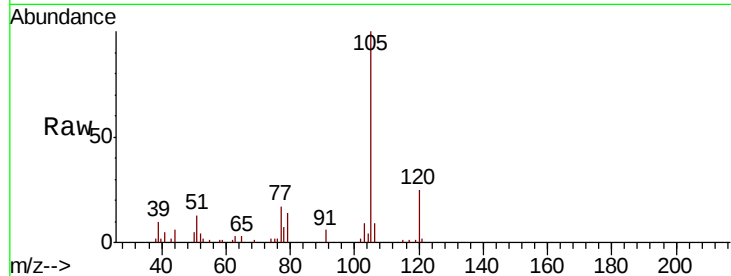
Ion Ratio Lower Upper

105 100

120 25.2 11.8 35.4

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.27

40000

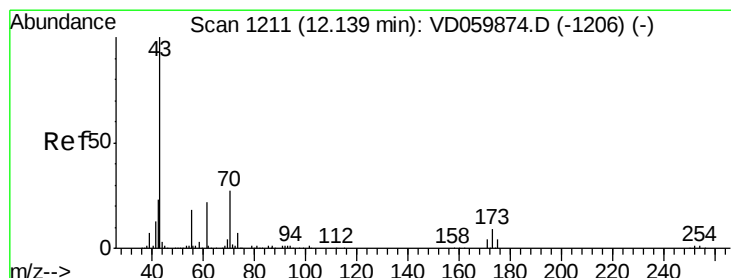
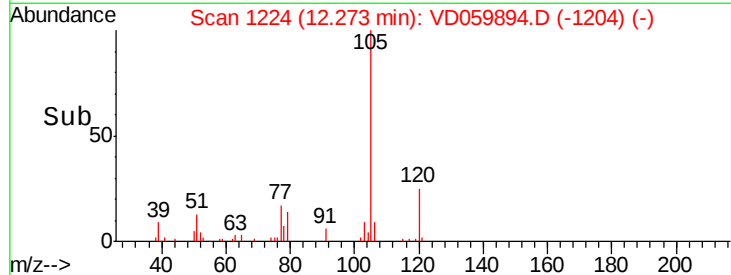
30000

20000

10000

0

Time-->



#74

N-ethyl acetate

Concen: 4.64 ug/l

RT: 12.12 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Tgt Ion: 43 Resp: 3861

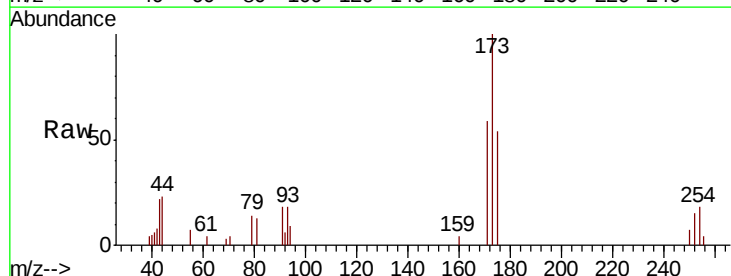
Ion Ratio Lower Upper

43 100

70 18.1 21.4 32.2#

55 33.1 14.1 21.1#

61 17.6 17.8 26.8#



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

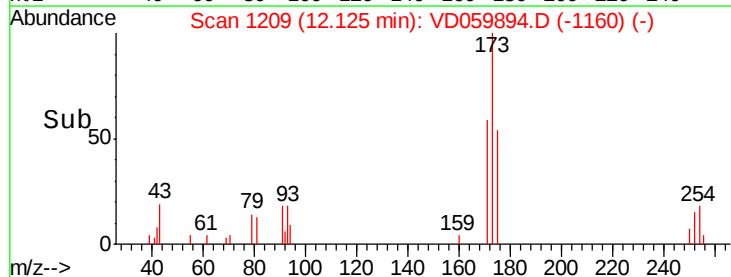
3000

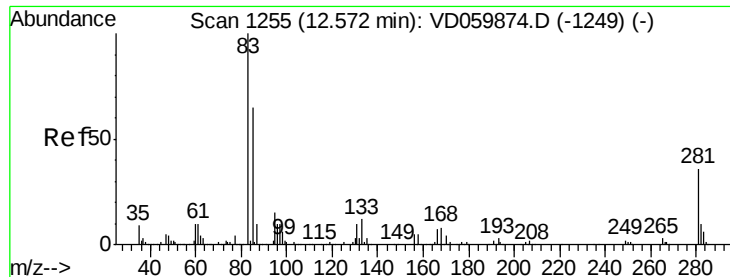
2000

1000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 189.45 ug/l

RT: 12.56 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

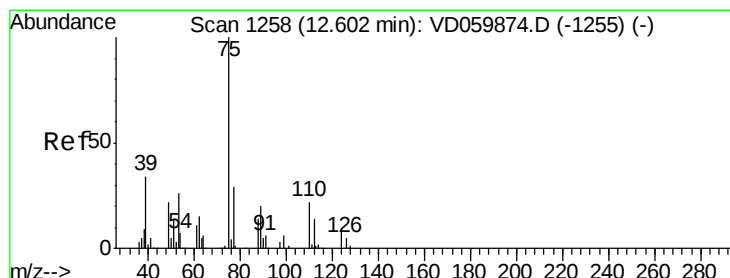
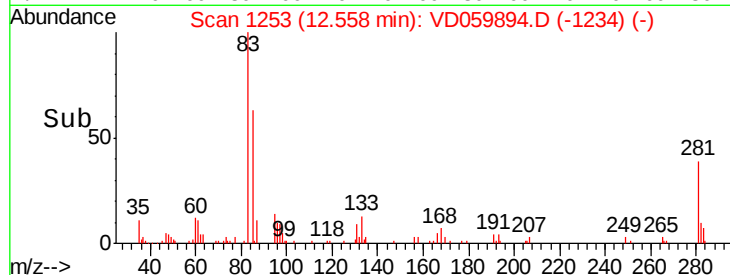
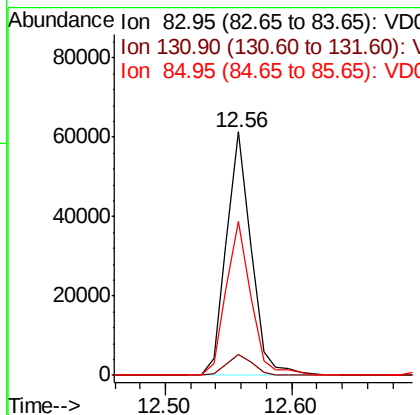
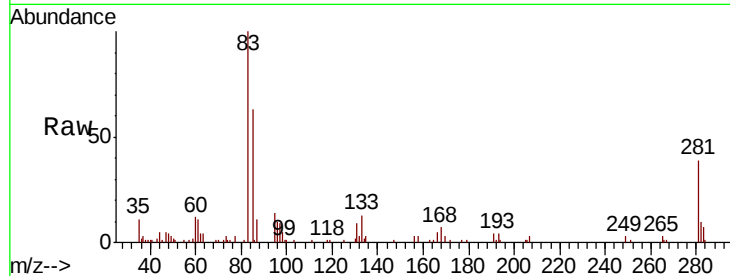
ClientSampleId :

RA-081718-WSW-20-053

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 83246 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 8.6   | 4.8   | 14.4  |
| 85        | 63.1  | 32.6  | 97.8  |

Manual Integrations  
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#76

1,2,3-Trichloropropane

Concen: 191.69 ug/l

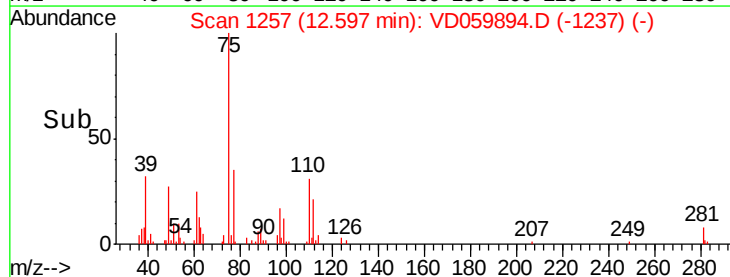
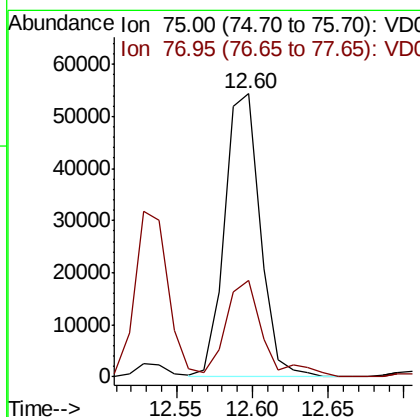
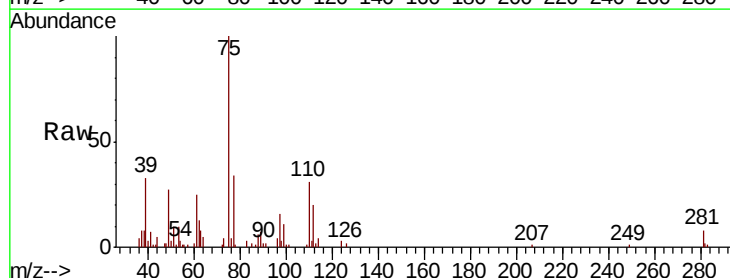
RT: 12.60 min Scan# 1257

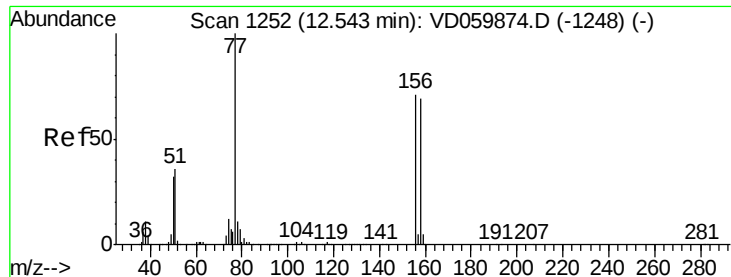
Delta R.T. -0.00 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 88662 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 34.2  | 16.4  | 49.2  |





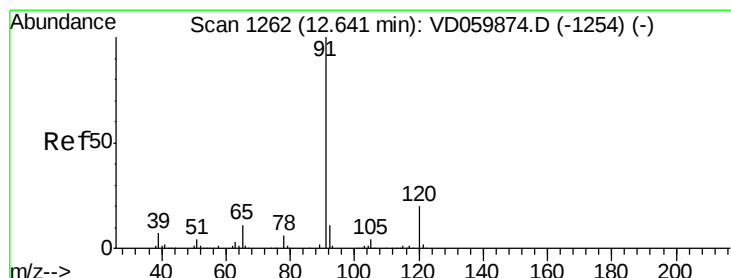
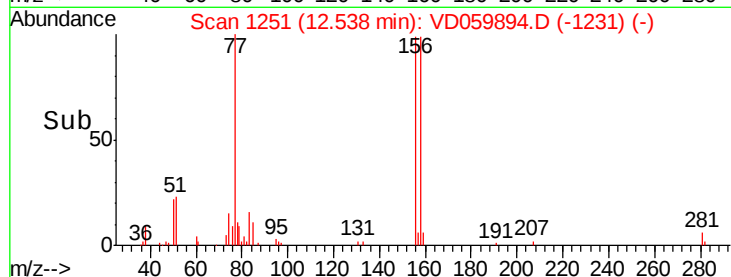
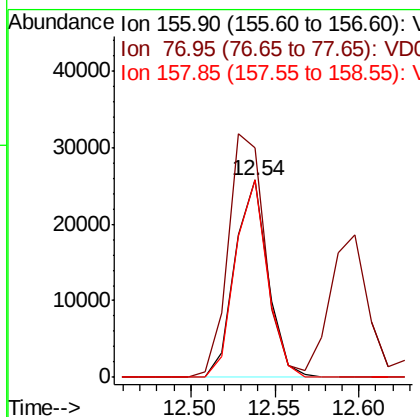
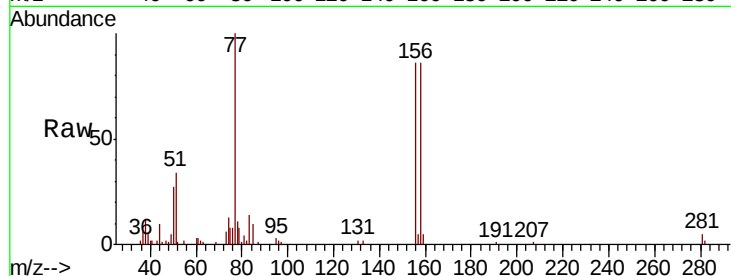
#77  
Bromobenzene  
Concen: 66.74 ug/l  
RT: 12.54 min Scan# 1251  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 116.4 | 70.2  | 210.4 |
| 158     | 99.9  | 48.4  | 145.2 |

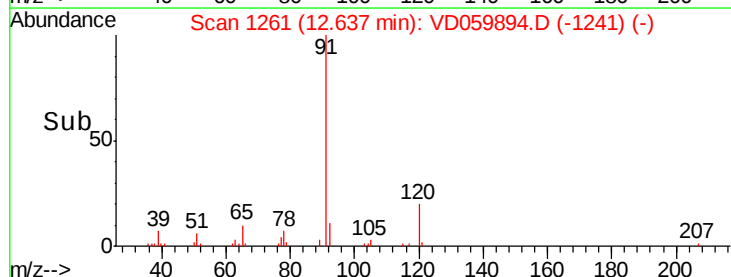
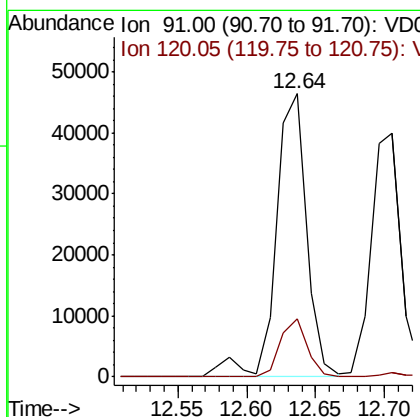
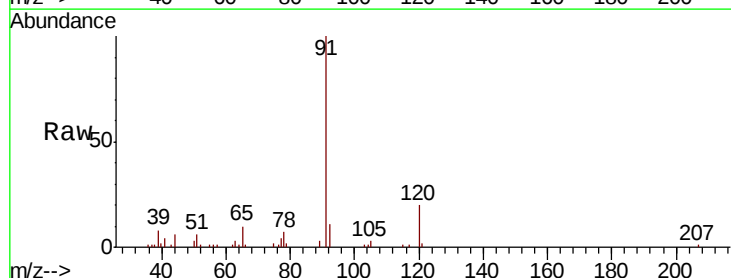
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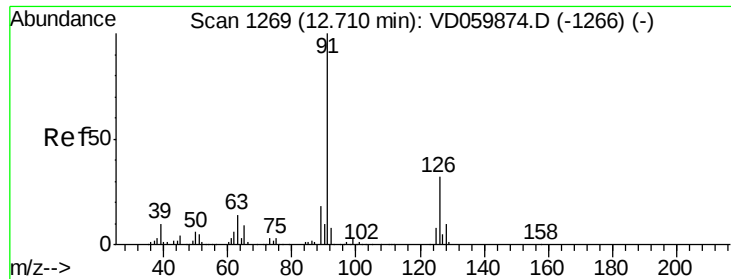
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#78  
n-propylbenzene  
Concen: 29.61 ug/l  
RT: 12.64 min Scan# 1261  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 20.5  | 10.1  | 30.3  |





#79

2-Chlorotoluene

Concen: 44.14 ug/l

RT: 12.71 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 91 Resp: 60052

Ion Ratio Lower Upper

91 100

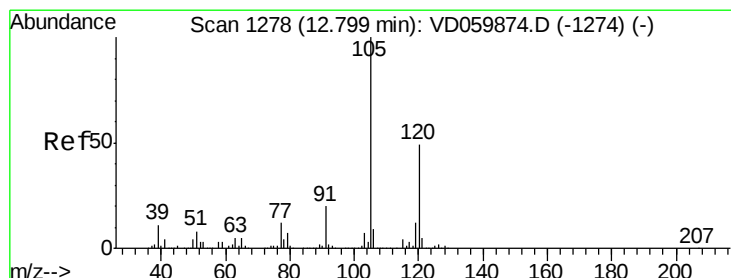
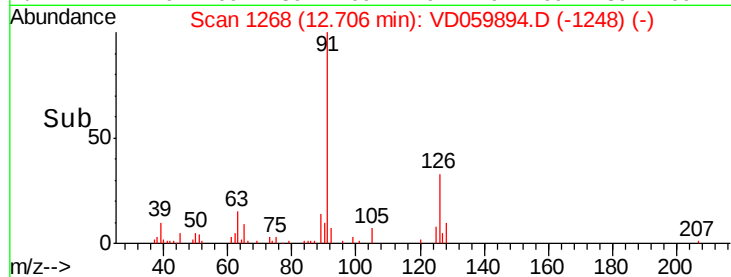
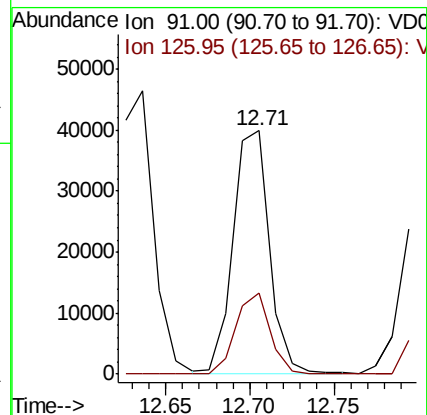
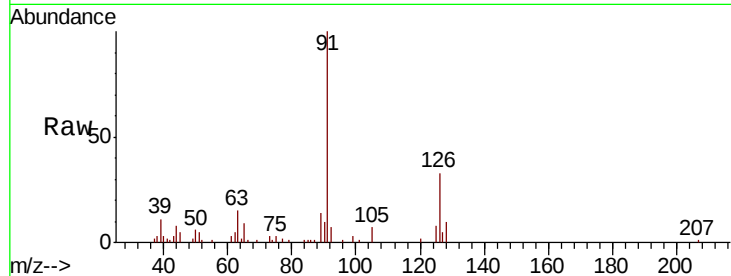
126 33.2 16.1 48.2

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#80

1,3,5-Trimethylbenzene

Concen: 32.55 ug/l

RT: 12.78 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VD059894.D

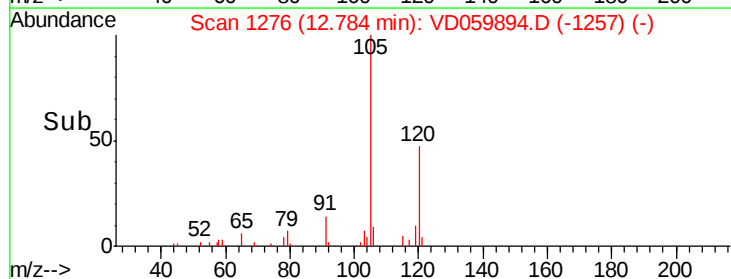
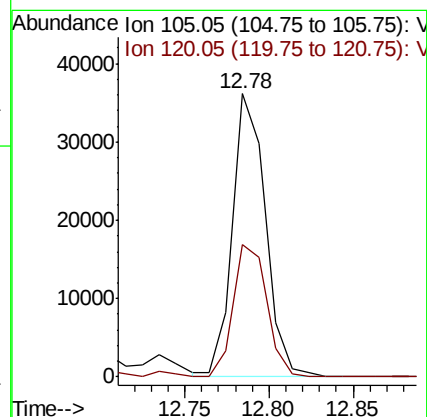
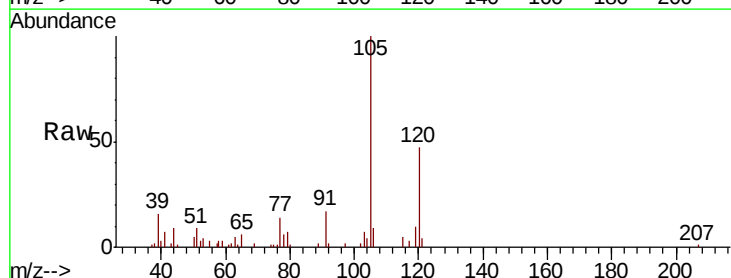
Acq: 23 Aug 2018 18:01

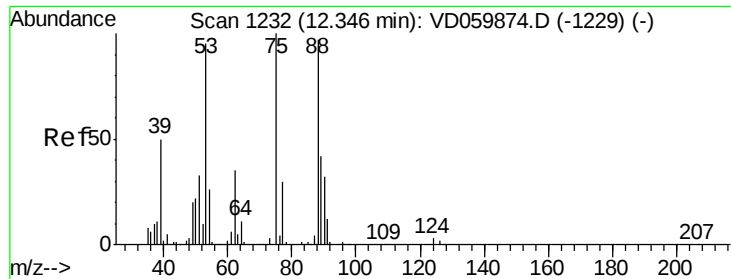
Tgt Ion: 105 Resp: 49156

Ion Ratio Lower Upper

105 100

120 46.6 24.5 73.5





#81

trans-1,4-Dichloro-2-butene

Concen: 115.14 ug/l

RT: 12.34 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD059894.D

Acq: 23 Aug 2018 18:01

Instrument :

MSVOA\_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 75 Resp: 16566

Ion Ratio Lower Upper

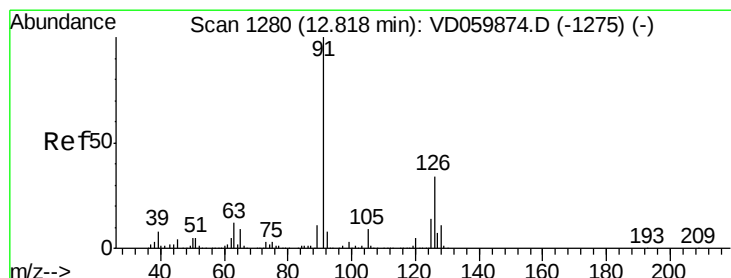
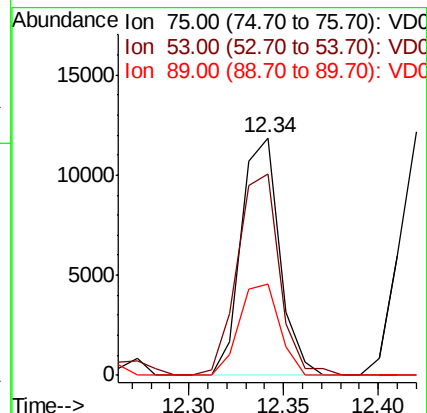
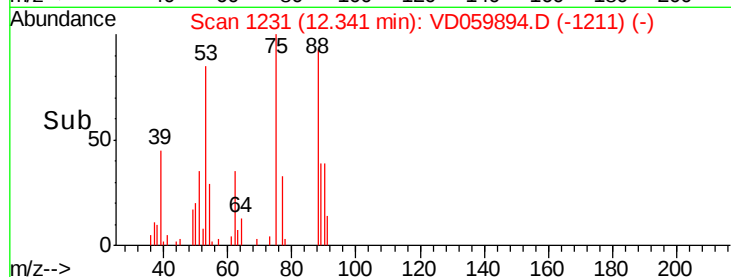
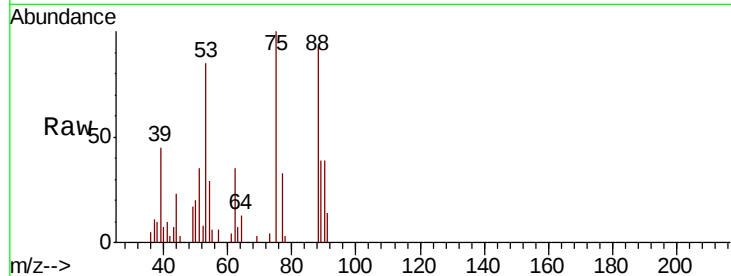
75 100

53 85.1 75.8 113.6

89 38.6 33.6 50.4

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#82

4-Chlorotoluene

Concen: 45.24 ug/l

RT: 12.80 min Scan# 1278

Delta R.T. -0.01 min

Lab File: VD059894.D

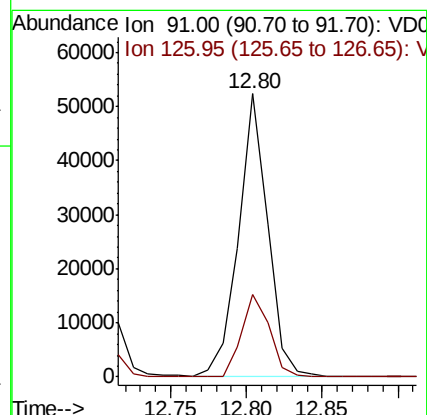
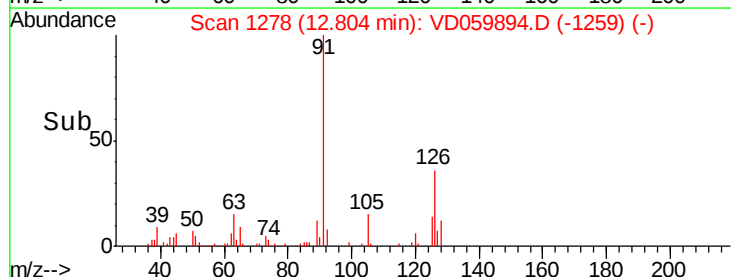
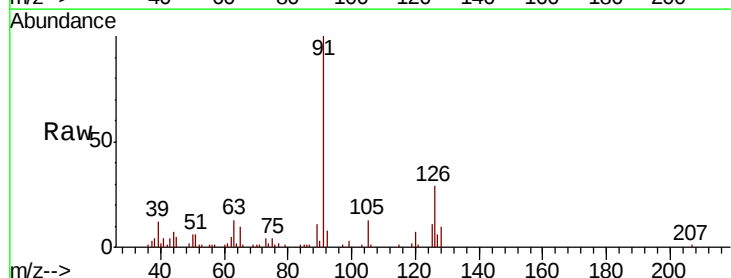
Acq: 23 Aug 2018 18:01

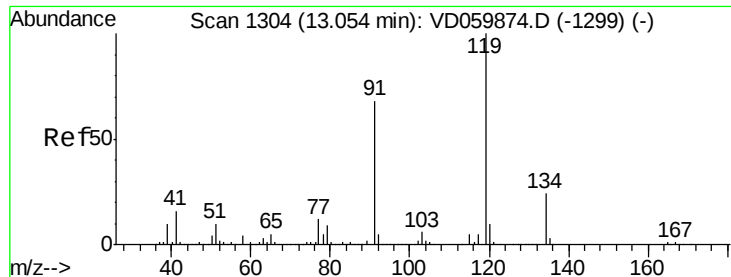
Tgt Ion: 91 Resp: 70196

Ion Ratio Lower Upper

91 100

126 29.1 17.1 51.2





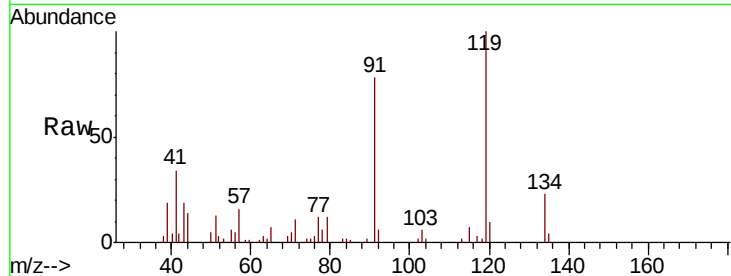
#83  
tert-Butylbenzene  
Concen: 25.62 ug/l  
RT: 13.04 min Scan# 1302  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

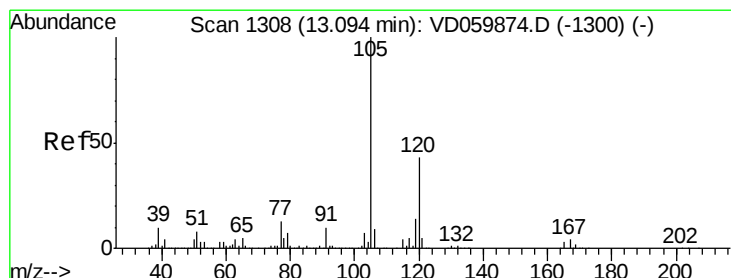
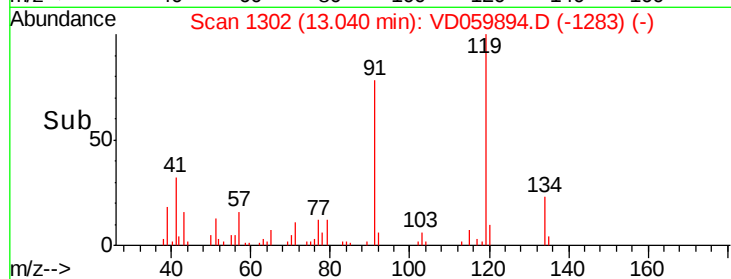
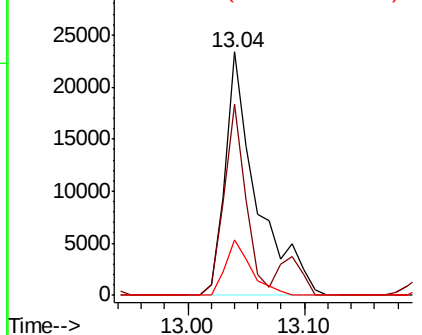
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 78.4  | 34.3  | 102.9 |
| 134     | 23.0  | 11.9  | 35.9  |

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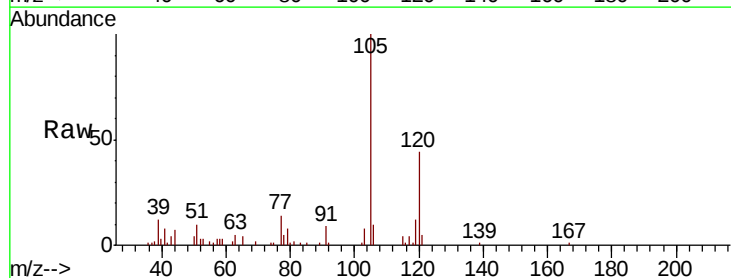


Abundance Ion 119.05 (118.75 to 119.75): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

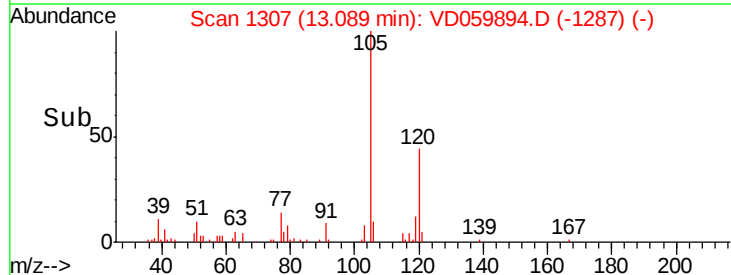
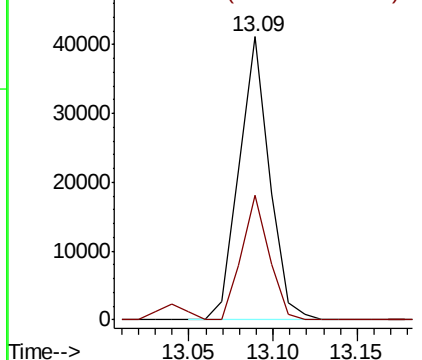


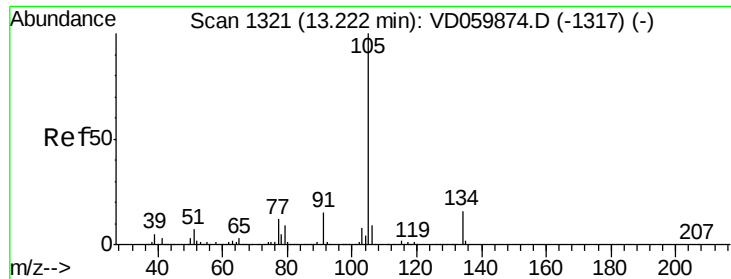
#84  
1,2,4-Trimethylbenzene  
Concen: 32.65 ug/l  
RT: 13.09 min Scan# 1307  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.2  | 21.8  | 65.3  |



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





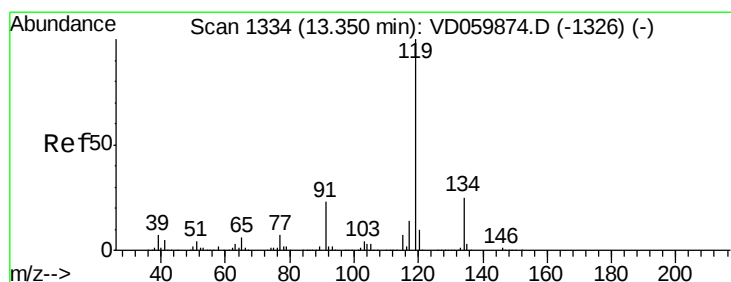
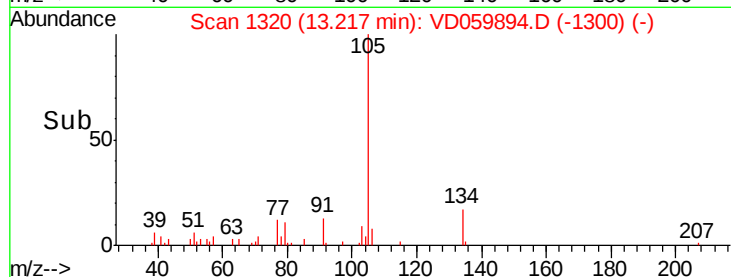
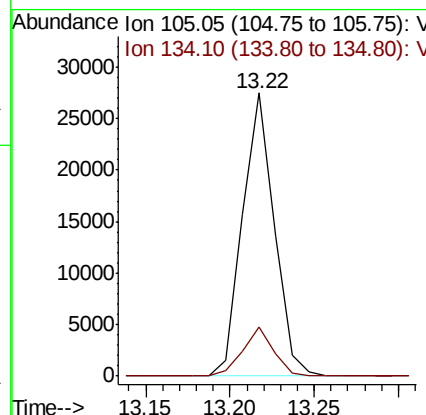
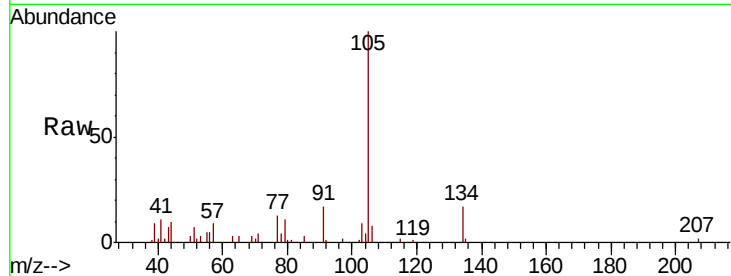
#85  
 sec-Butylbenzene  
 Concen: 17.74 ug/l  
 RT: 13.22 min Scan# 1320  
 Delta R.T. -0.00 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 17.3  | 8.2   | 24.4  |

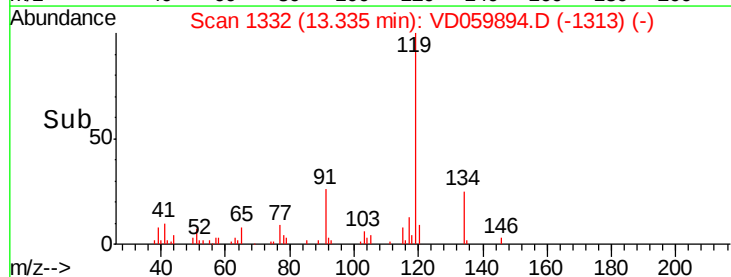
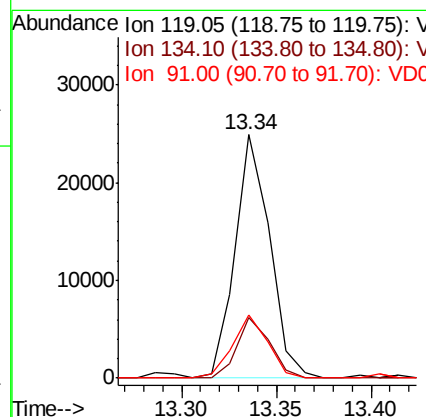
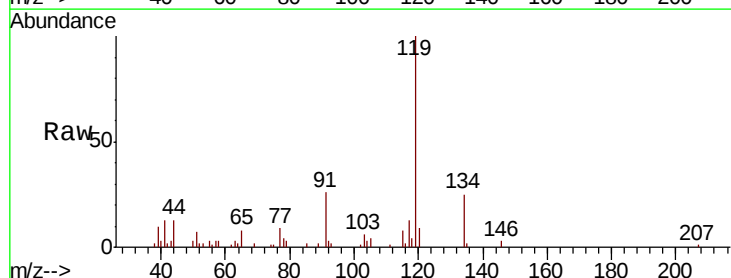
Manual Integrations  
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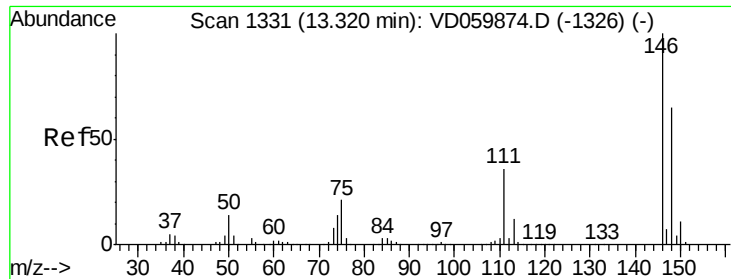
MMDadoda  
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#86  
 p-Isopropyltoluene  
 Concen: 19.08 ug/l  
 RT: 13.34 min Scan# 1332  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.8  | 12.7  | 38.1  |
| 91      | 25.7  | 11.7  | 35.0  |





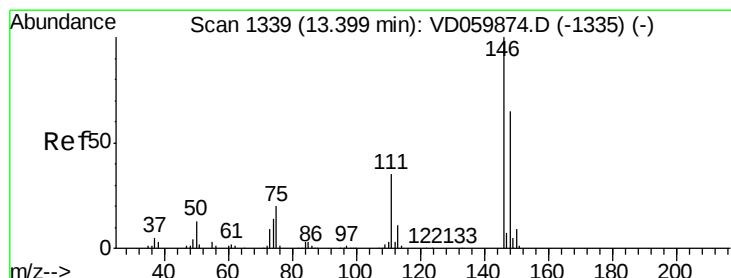
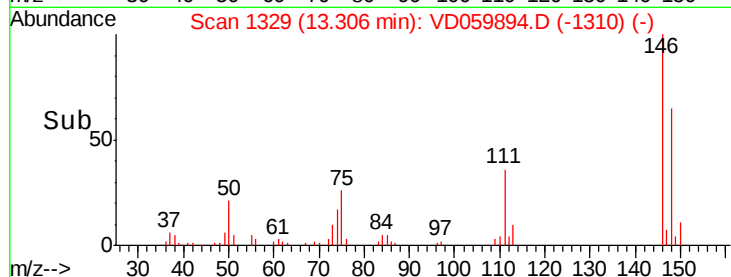
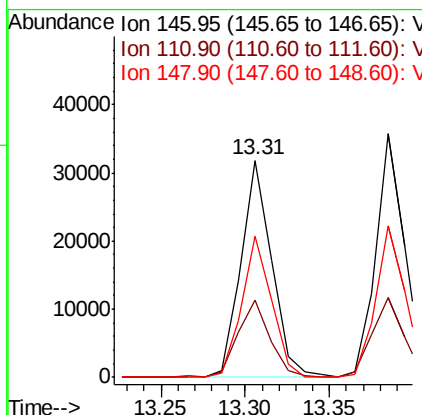
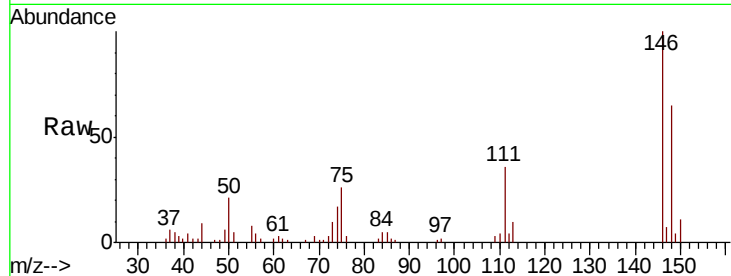
#87  
 1,3-Dichlorobenzene  
 Concen: 42.95 ug/l  
 RT: 13.31 min Scan# 1329  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.7  | 17.9  | 53.7  |
| 148     | 65.1  | 32.4  | 97.0  |

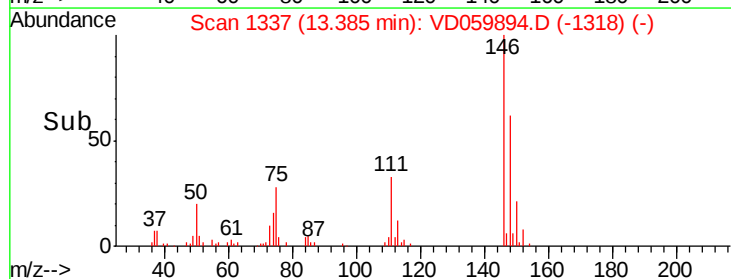
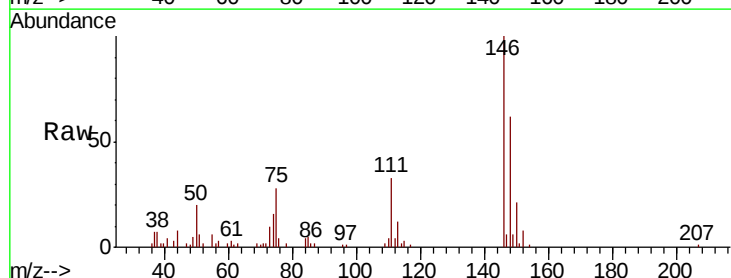
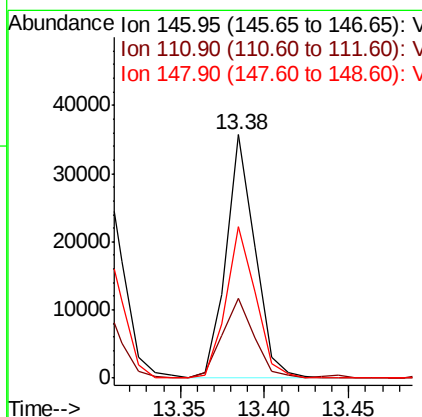
Manual Integrations  
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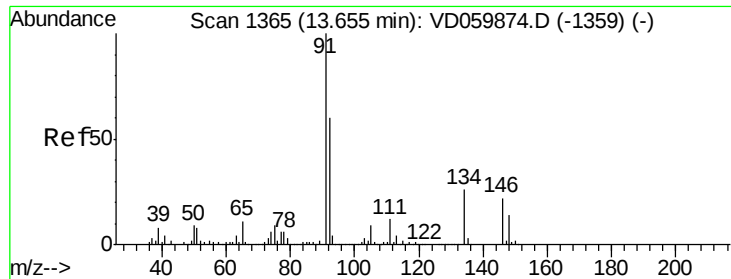
MMDadoda  
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#88  
 1,4-Dichlorobenzene  
 Concen: 45.54 ug/l  
 RT: 13.38 min Scan# 1337  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 32.9  | 17.5  | 52.6  |
| 148     | 62.4  | 32.5  | 97.5  |





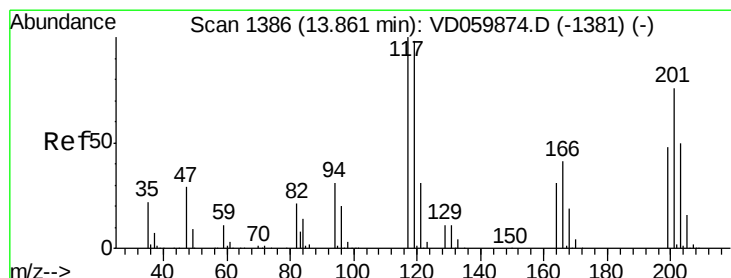
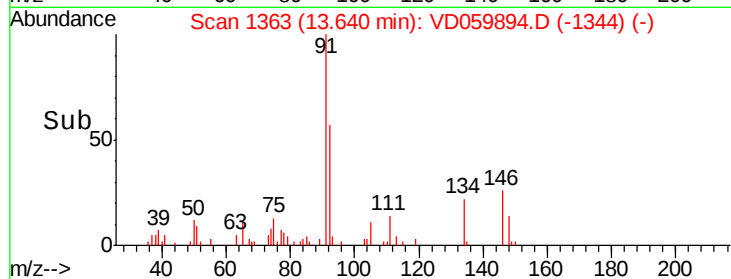
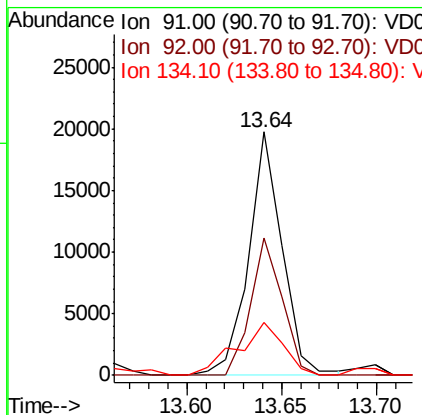
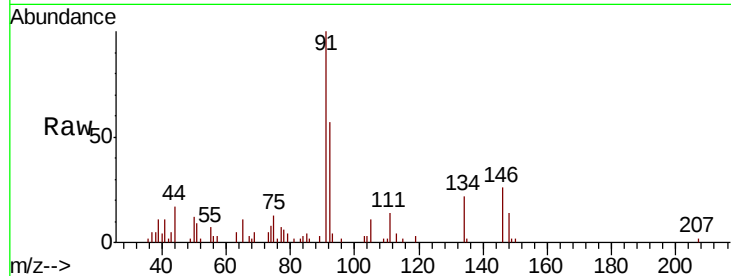
#89  
n-Butylbenzene  
Concen: 13.04 ug/l  
RT: 13.64 min Scan# 1363  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 56.6  | 30.0  | 90.1  |
| 134     | 21.7  | 12.8  | 38.4  |

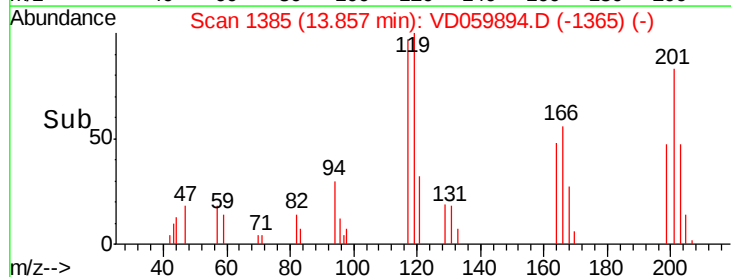
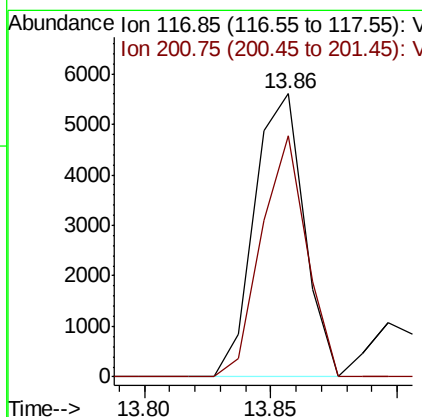
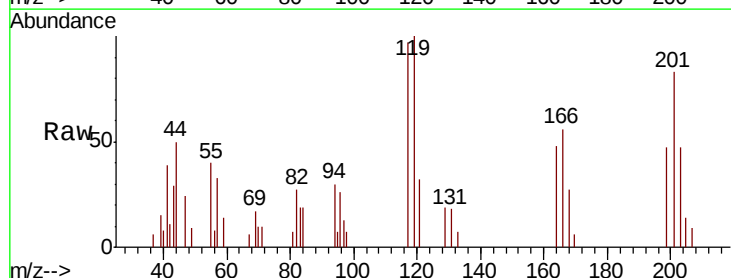
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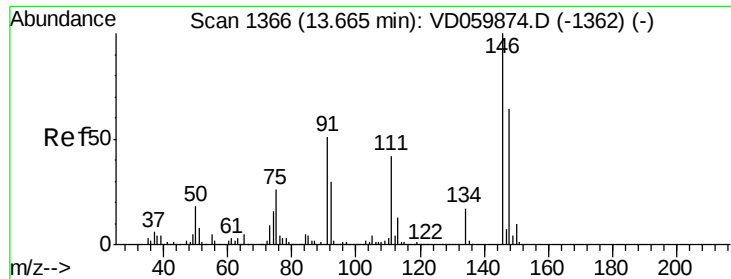
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#90  
Hexachloroethane  
Concen: 17.45 ug/l  
RT: 13.86 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 85.2  | 38.1  | 114.5 |





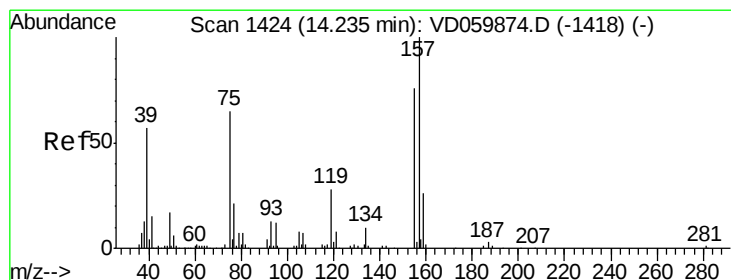
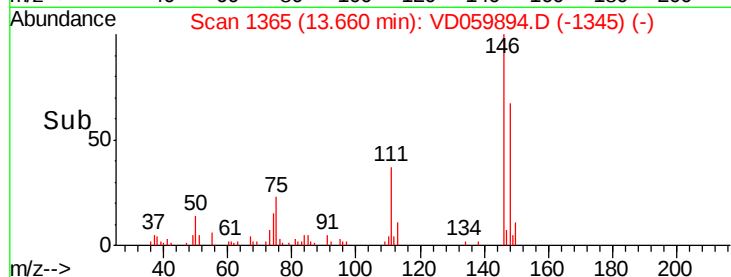
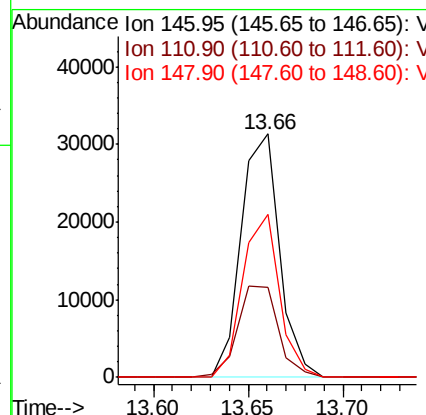
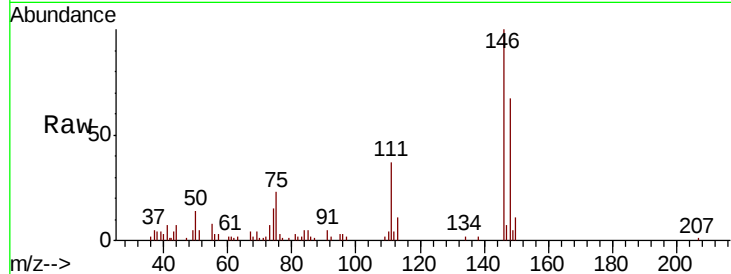
#91  
 1,2-Dichlorobenzene  
 Concen: 54.92 ug/l  
 RT: 13.66 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.7  | 21.1  | 63.1  |
| 148     | 67.2  | 32.2  | 96.6  |

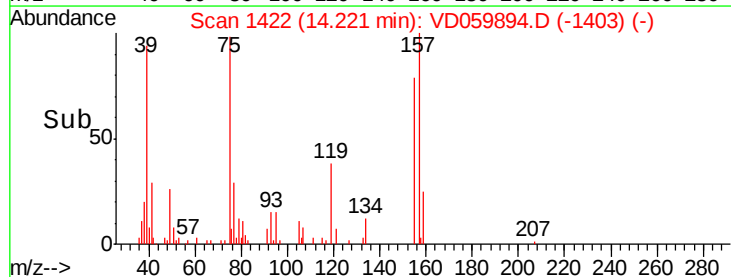
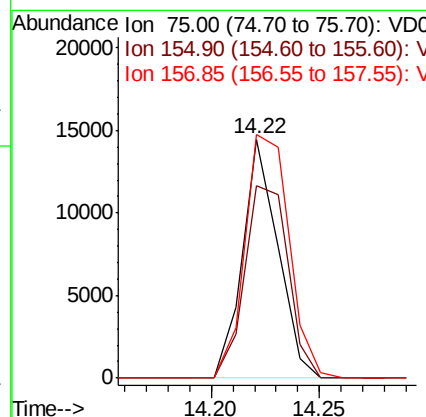
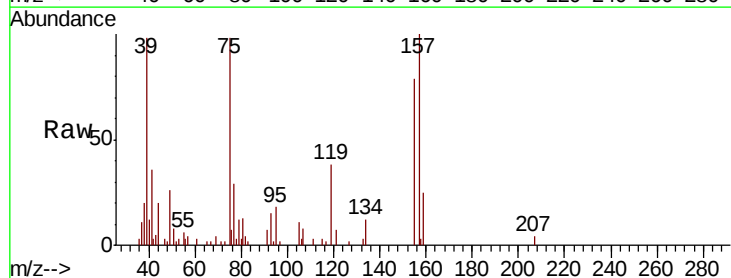
Manual Integrations  
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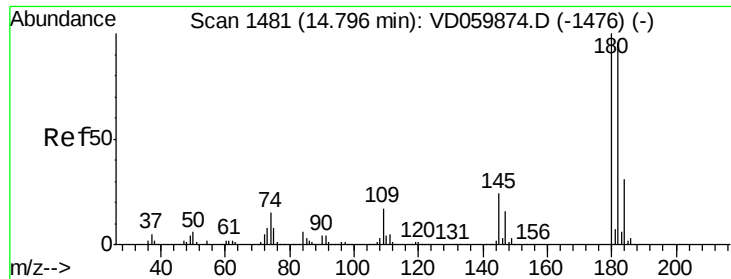
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 243.37 ug/l  
 RT: 14.22 min Scan# 1422  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 80.4  | 58.2  | 174.6 |
| 157     | 101.9 | 76.8  | 230.4 |





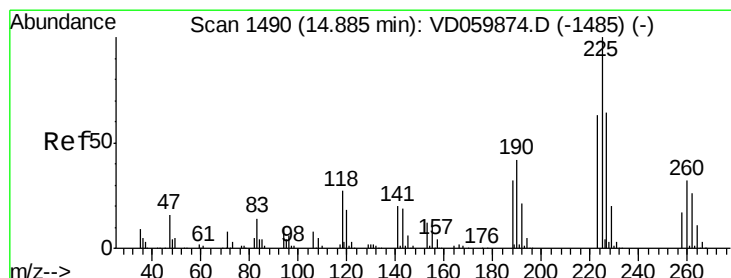
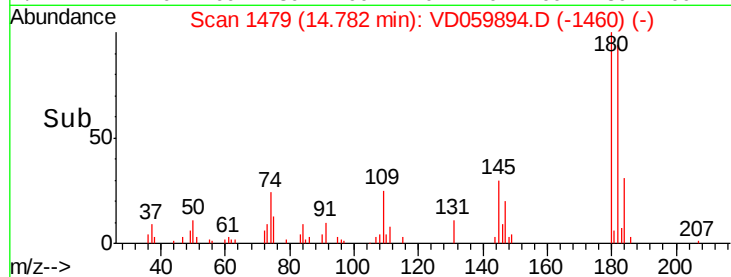
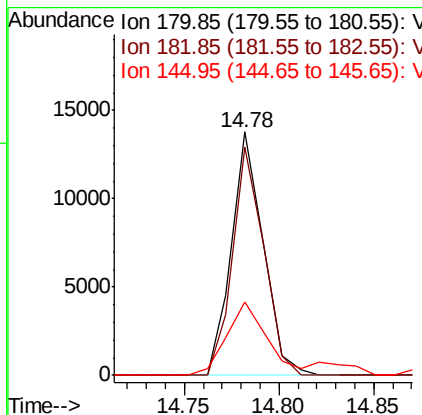
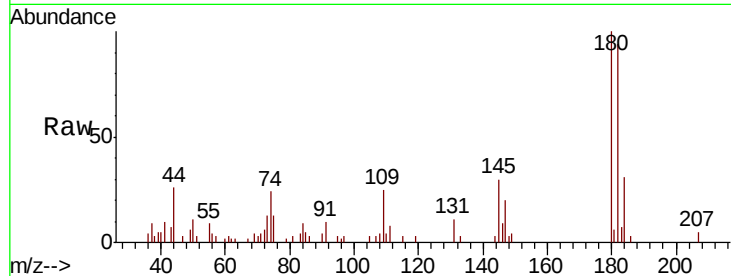
#93  
 1,2,4-Trichlorobenzene  
 Concen: 23.29 ug/l  
 RT: 14.78 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.0  | 47.9  | 143.7 |
| 145     | 30.2  | 12.2  | 36.4  |

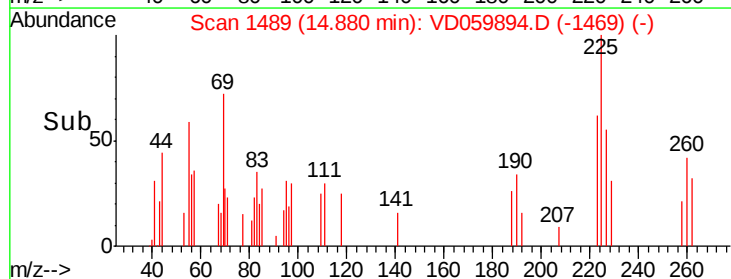
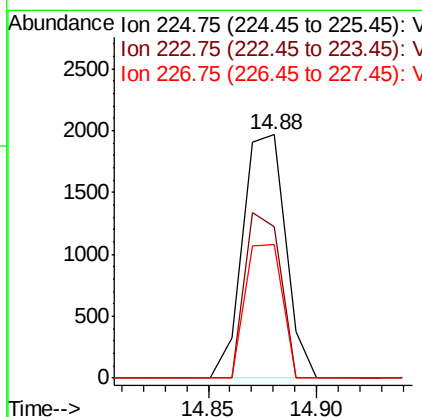
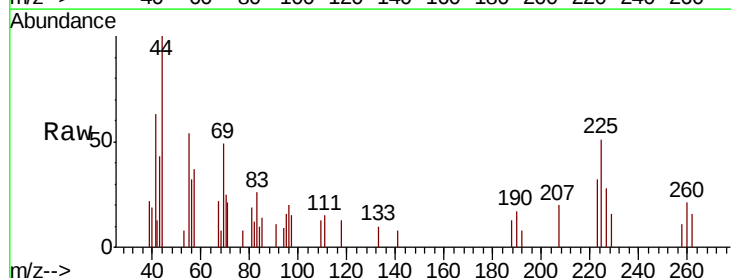
Manual Integrations  
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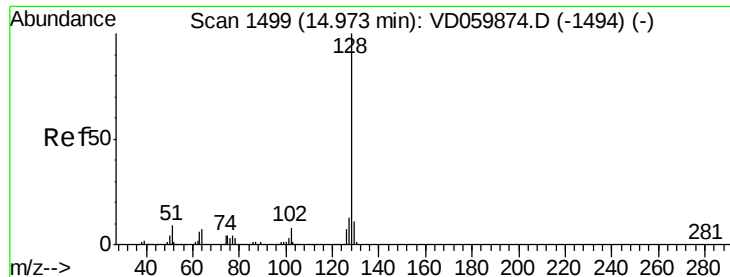
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#94  
 Hexachlorobutadiene  
 Concen: 6.01 ug/l  
 RT: 14.88 min Scan# 1489  
 Delta R.T. -0.00 min  
 Lab File: VD059894.D  
 Acq: 23 Aug 2018 18:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.0  | 31.6  | 94.8  |
| 227     | 54.7  | 32.0  | 96.0  |





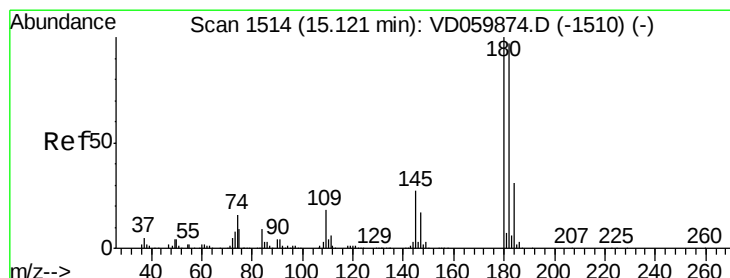
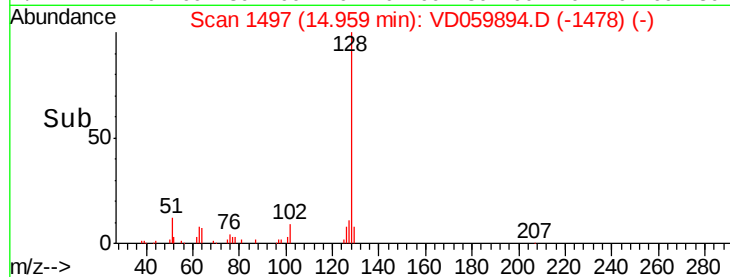
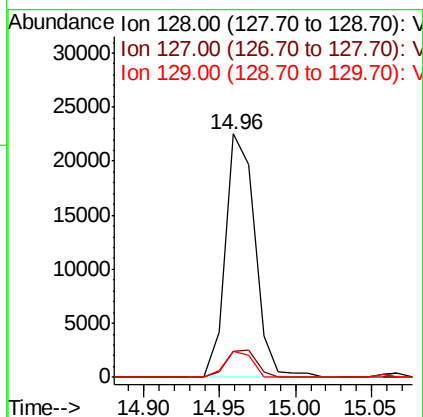
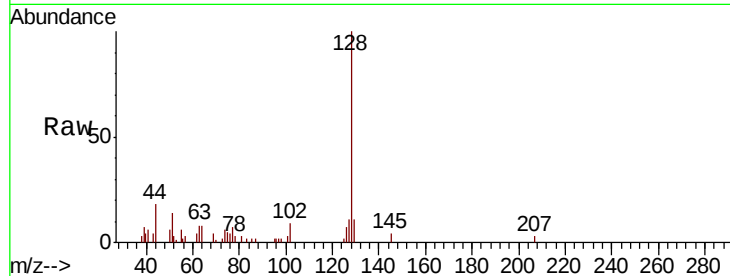
#95  
Naphthalene  
Concen: 29.03 ug/l  
RT: 14.96 min Scan# 1497  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081718-WSW-20-053

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 30368 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 10.9  | 10.0  | 15.0  |
| 129       | 10.9  | 8.6   | 13.0  |

Manual Integrations  
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#96  
1,2,3-Trichlorobenzene  
Concen: 26.47 ug/l  
RT: 15.11 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VD059894.D  
Acq: 23 Aug 2018 18:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 15496 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.7  | 48.6  | 145.8 |
| 145       | 37.7  | 13.6  | 40.8  |

