

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD121018\  
 Data File : VD060518.D  
 Acq On : 10 Dec 2018 12:04  
 Operator : VA/AP  
 Sample : VD1210SBS01  
 Misc : 5.00g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2018 4:15:11 PM

Quant Time: Dec 11 07:02:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.41  | 168  | 1625699  | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 2277794  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.28 | 117  | 1765961  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 895545   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 6.79   | 65  | 625504   | 54.28 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.56% |       |
| 35) Dibromofluoromethane  | 6.33   | 113 | 920651   | 55.03 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.06% |       |
| 50) Toluene-d8            | 9.46   | 98  | 2578281  | 53.25 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.50% |       |
| 62) 4-Bromofluorobenzene  | 12.42  | 95  | 902832   | 52.11 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.22% |       |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.61 | 85  | 431473  | 24.544  | ug/l   | 97     |
| 3) Chloromethane              | 1.78 | 50  | 380731  | 22.794  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.87 | 62  | 303232  | 22.747  | ug/l   | 96     |
| 5) Bromomethane               | 2.17 | 94  | 53649   | 16.087  | ug/l # | 79     |
| 6) Chloroethane               | 2.28 | 64  | 74050   | 16.124  | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 2.52 | 101 | 314588  | 20.438  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.85 | 74  | 55481   | 20.868  | ug/l   | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.10 | 101 | 208166  | 20.843  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.26 | 142 | 228698  | 19.590  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 3.98 | 59  | 45153   | 96.452  | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 3.09 | 96  | 170629  | 20.998  | ug/l   | 97     |
| 13) Acrolein                  | 3.00 | 56  | 51164   | 100.022 | ug/l   | 90     |
| 14) Allyl chloride            | 3.54 | 41  | 314868  | 20.423  | ug/l   | 99     |
| 15) Acrylonitrile             | 4.10 | 53  | 295378  | 111.122 | ug/l   | 93     |
| 16) Acetone                   | 3.18 | 43  | 185629  | 100.502 | ug/l   | 99     |
| 17) Carbon Disulfide          | 3.33 | 76  | 561021  | 21.255  | ug/l   | 99     |
| 18) Methyl Acetate            | 3.57 | 43  | 96611   | 22.008  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.14 | 73  | 501559  | 22.258  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.73 | 84  | 393416  | 20.564  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 4.12 | 96  | 385758  | 21.824  | ug/l   | 98     |
| 22) Diisopropyl ether         | 4.86 | 45  | 1217527 | 21.996  | ug/l   | 97     |
| 23) Vinyl Acetate             | 4.81 | 43  | 2995321 | 109.218 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 4.77 | 63  | 612188  | 21.289  | ug/l   | 99     |
| 25) 2-Butanone                | 5.63 | 43  | 385034  | 105.958 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 5.59 | 77  | 488081  | 21.971  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 5.60 | 96  | 391251  | 21.770  | ug/l   | 98     |
| 28) Bromochloromethane        | 5.93 | 49  | 262052  | 20.571  | ug/l   | 86     |
| 29) Tetrahydrofuran           | 5.97 | 42  | 216033  | 104.984 | ug/l   | 99     |
| 30) Chloroform                | 6.11 | 83  | 611198  | 21.097  | ug/l   | 97     |
| 31) Cyclohexane               | 6.37 | 56  | 582700  | 21.514  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.30 | 97  | 523175  | 21.967  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 6.53 | 75  | 470020  | 21.110  | ug/l   | 99     |
| 37) Ethyl Acetate             | 5.71 | 43  | 224242  | 23.223  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 6.51 | 117 | 435274  | 21.776  | ug/l   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD121018\  
 Data File : VD060518.D  
 Acq On : 10 Dec 2018 12:04  
 Operator : VA/AP  
 Sample : VD1210SBS01  
 Misc : 5.00g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD1210SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2018 4:15:11 PM

Quant Time: Dec 11 07:02:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.04  | 83   | 552016   | 21.749  | ug/l   | 99       |
| 40) Benzene                    | 6.80  | 78   | 1194850  | 20.998  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.94  | 41   | 127194m  | 24.436  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 6.90  | 62   | 304948   | 21.078  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.35  | 43   | 260315   | 21.839  | ug/l # | 96       |
| 44) Trichloroethene            | 7.75  | 130  | 362845   | 21.337  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.10  | 63   | 298180   | 21.188  | ug/l   | 98       |
| 46) Dibromomethane             | 8.22  | 93   | 175961   | 21.640  | ug/l   | 97       |
| 47) Bromodichloromethane       | 8.49  | 83   | 413420   | 21.428  | ug/l   | 99       |
| 48) Methyl methacrylate        | 8.25  | 41   | 156134   | 22.138  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 8.24  | 88   | 28257    | 442.059 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone       | 9.34  | 43   | 836247   | 112.785 | ug/l   | 100      |
| 52) Toluene                    | 9.55  | 92   | 747535   | 21.019  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.92  | 75   | 342326   | 21.594  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.11  | 75   | 453871   | 21.791  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.18 | 97   | 209650   | 21.168  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.03 | 69   | 199059   | 22.207  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.38 | 76   | 324012   | 21.162  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.92  | 63   | 585375   | 109.144 | ug/l   | 94       |
| 59) 2-Hexanone                 | 10.49 | 43   | 578982   | 111.717 | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.64 | 129  | 267521   | 21.604  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.76 | 107  | 212465   | 21.050  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.26 | 164  | 332884   | 21.288  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.31 | 112  | 797464   | 21.345  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.42 | 131  | 271576   | 22.553  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.43 | 91   | 1450172  | 22.757  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.57 | 106  | 1058640  | 44.904  | ug/l   | 98       |
| 69) o-Xylene                   | 11.93 | 106  | 499470   | 22.231  | ug/l   | 91       |
| 70) Styrene                    | 11.96 | 104  | 810134   | 22.464  | ug/l   | 99       |
| 71) Bromoform                  | 12.12 | 173  | 173949   | 21.652  | ug/l   | 100      |
| 73) Isopropylbenzene           | 12.27 | 105  | 1393819  | 21.994  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 341814   | 22.318  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.56 | 83   | 217202   | 21.409  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.60 | 75   | 220172   | 21.698  | ug/l   | 97       |
| 77) Bromobenzene               | 12.54 | 156  | 347611   | 20.868  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.64 | 91   | 1796698  | 22.428  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.71 | 91   | 960027   | 22.085  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 1092106  | 22.553  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.34 | 75   | 61068    | 21.578  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.81 | 91   | 1085179  | 22.227  | ug/l   | 88       |
| 83) tert-Butylbenzene          | 13.04 | 119  | 1204402  | 22.183  | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 13.09 | 105  | 1091910  | 21.777  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.22 | 105  | 1492396  | 22.054  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.35 | 119  | 1218663  | 22.718  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.31 | 146  | 663805   | 22.009  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 13.40 | 146  | 642533   | 21.716  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.65 | 91   | 1258507  | 21.162  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.86 | 117  | 290164   | 21.574  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 557952   | 22.637  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.22 | 75   | 25717    | 20.920  | ug/l   | 85       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD121018\  
Data File : VD060518.D  
Acq On : 10 Dec 2018 12:04  
Operator : VA/AP  
Sample : VD1210SBSD01  
Misc : 5.00g/5ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBSD01

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM

Quant Time: Dec 11 07:02:03 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.79 | 180  | 416164   | 21.599 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.88 | 225  | 306875   | 21.587 | ug/l  | 99       |
| 95) Naphthalene            | 14.97 | 128  | 519202   | 22.651 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.12 | 180  | 332413   | 21.652 | ug/l  | 99       |

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

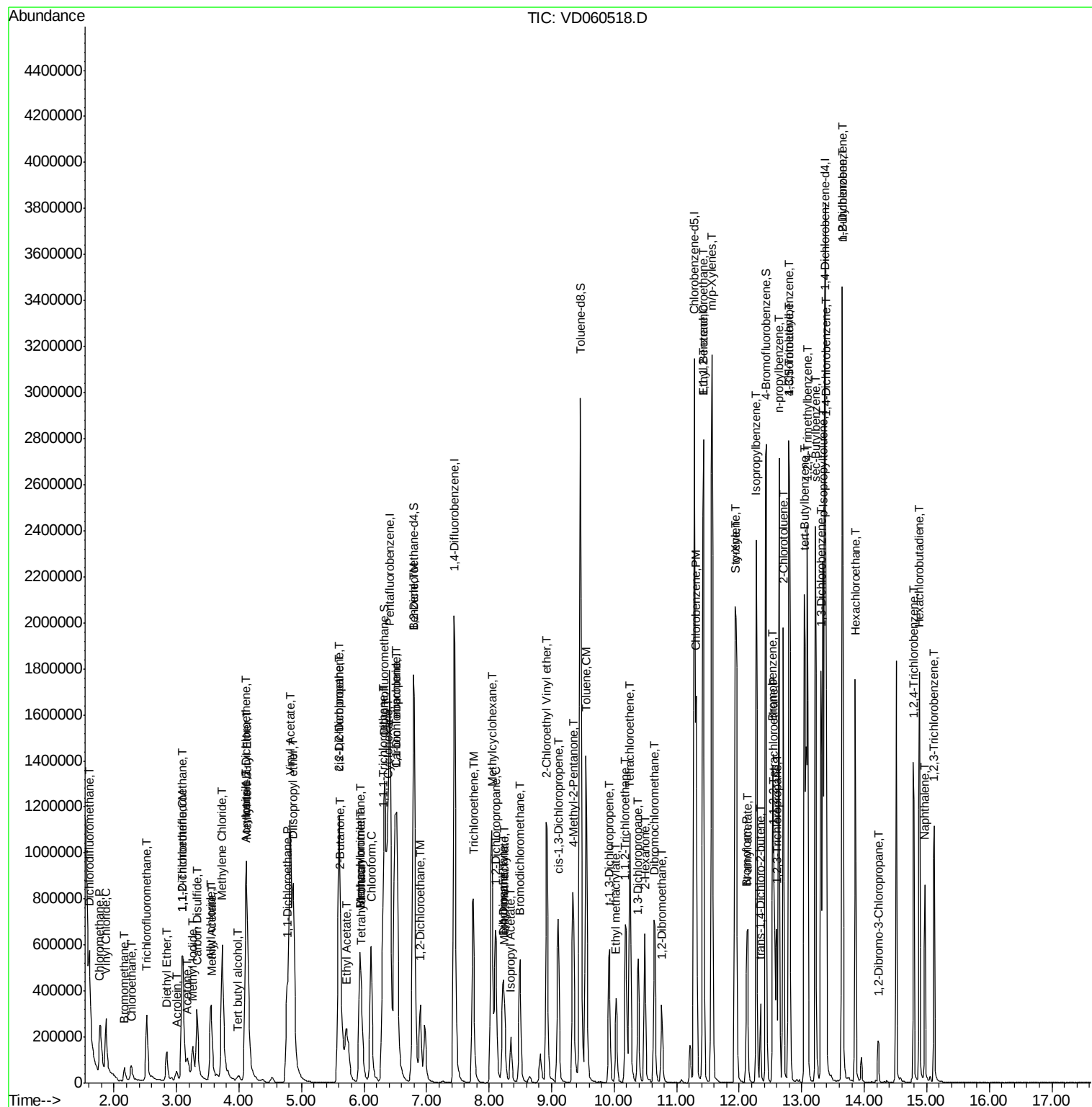
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD121018\  
Data File : VD060518.D  
Acq On : 10 Dec 2018 12:04  
Operator : VA/AP  
Sample : VD1210SBSD01  
Misc : 5.00g/5ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

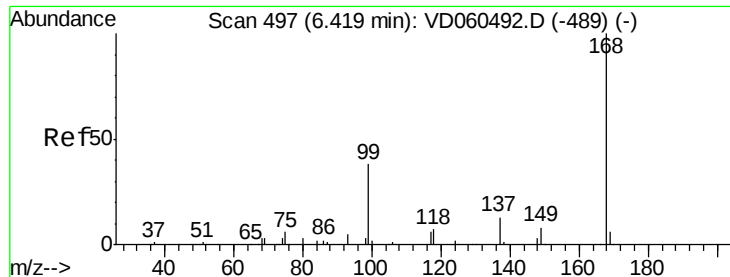
Instrument :  
MSVOA\_D  
Client Sample ID :  
VD1210SBSD01

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM

Quant Time: Dec 11 07:02:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 168 Resp: 1625699

Ion Ratio Lower Upper

168 100

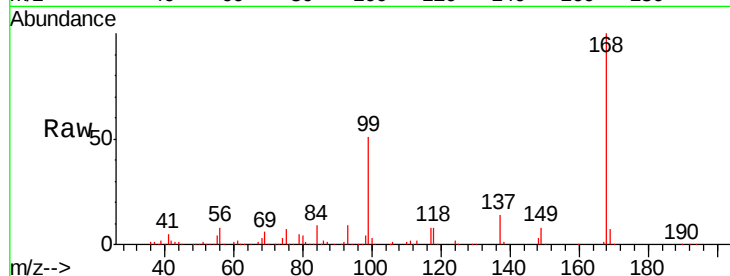
99 51.0 35.6 53.4

Manual Integrations

APPROVED

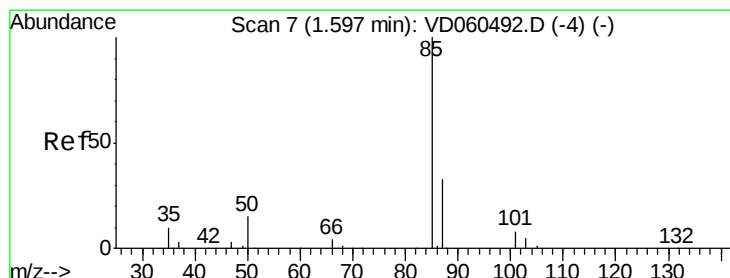
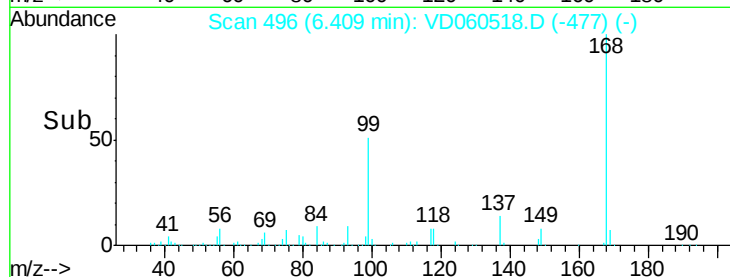
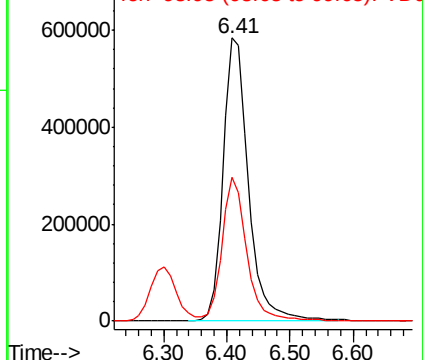
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 24.544 ug/l

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060518.D

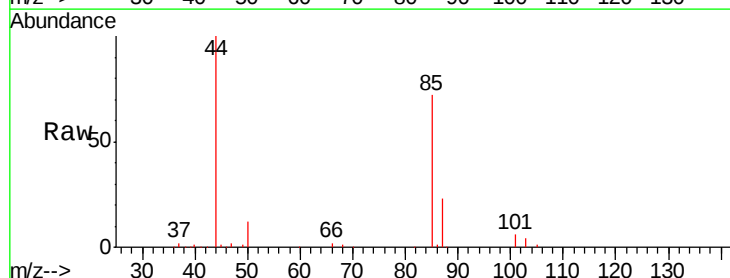
Acq: 10 Dec 2018 12:04

Tgt Ion: 85 Resp: 431473

Ion Ratio Lower Upper

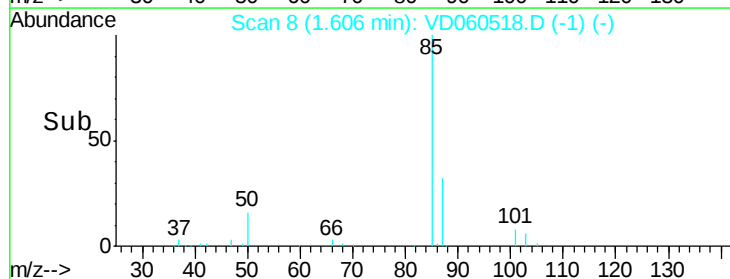
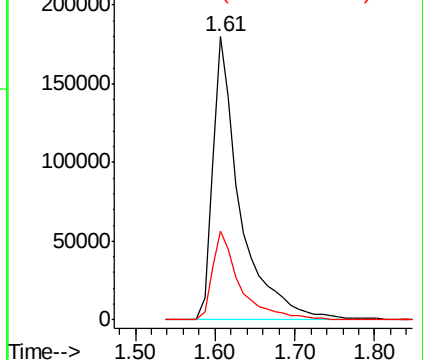
85 100

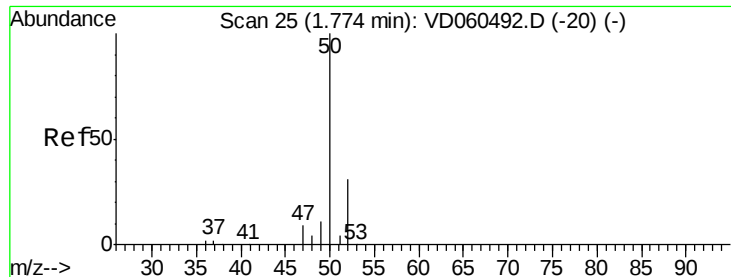
87 31.5 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.794 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.01 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 50 Resp: 380731

Ion Ratio Lower Upper

50 100

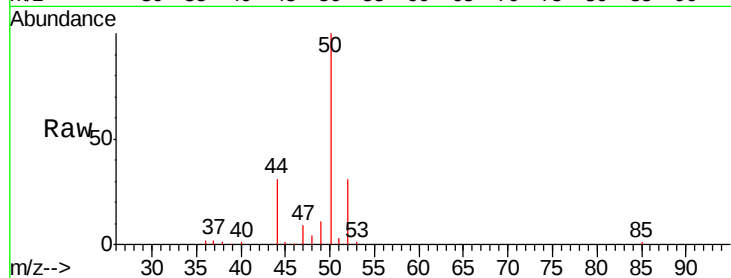
52 30.8 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.78

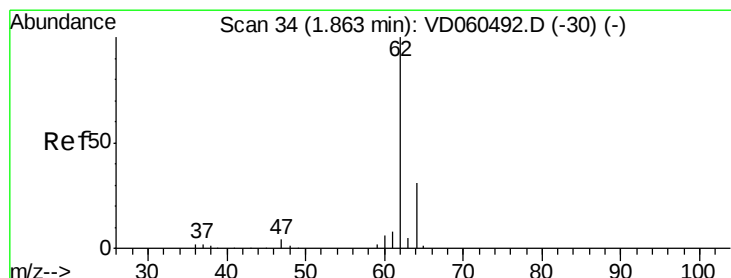
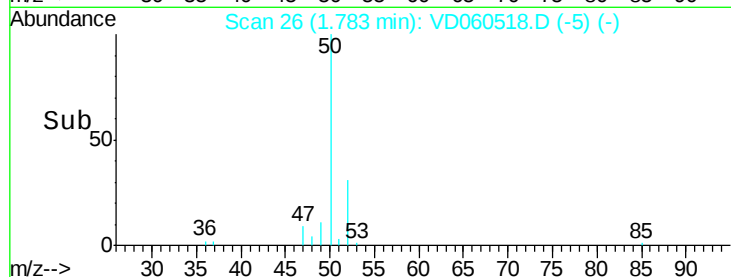
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 22.747 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060518.D

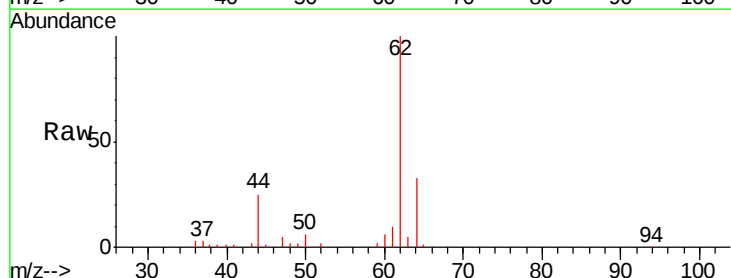
Acq: 10 Dec 2018 12:04

Tgt Ion: 62 Resp: 303232

Ion Ratio Lower Upper

62 100

64 33.0 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.87

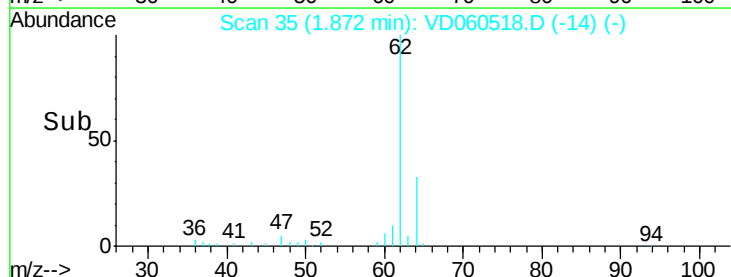
150000

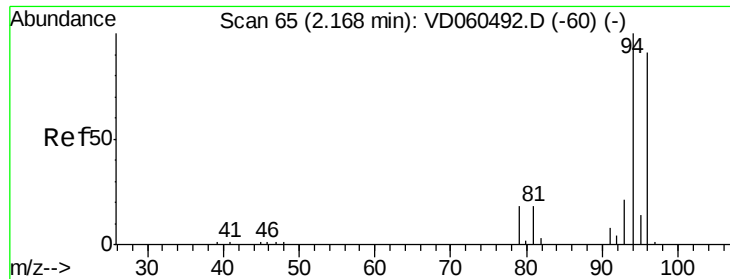
100000

50000

0

Time-->





#5

Bromomethane

Concen: 16.087 ug/l

RT: 2.17 min Scan# 65

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 94 Resp: 53649

Ion Ratio Lower Upper

94 100

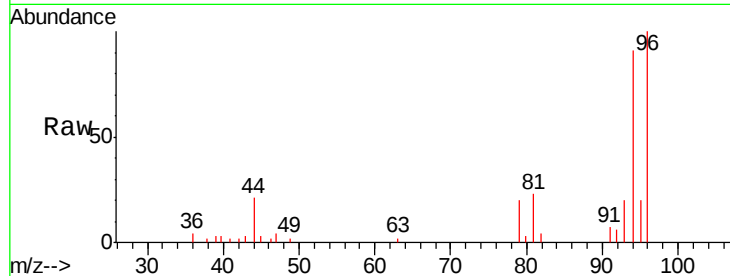
96 110.3 72.6 108.8#

Manual Integrations

APPROVED

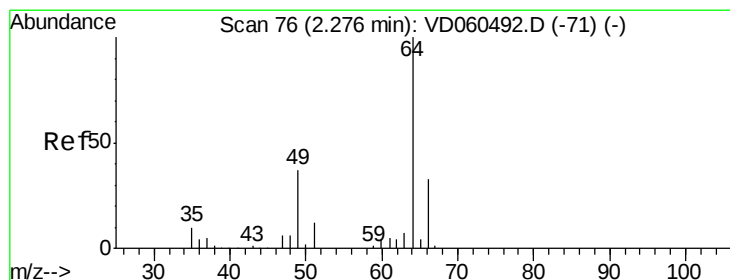
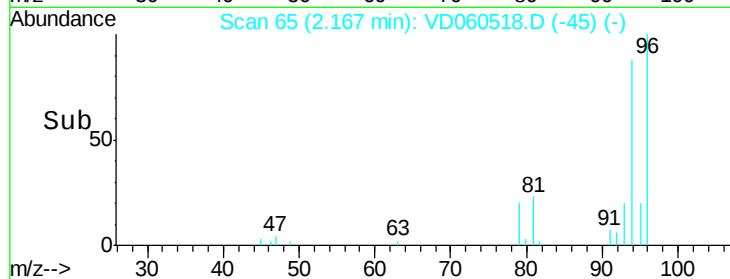
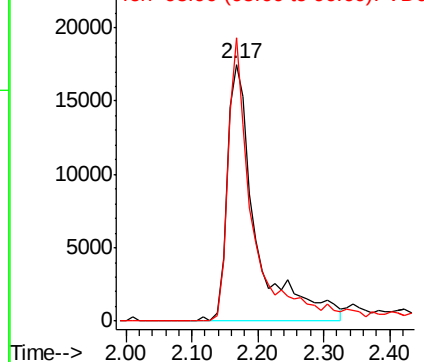
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 16.124 ug/l

RT: 2.28 min Scan# 76

Delta R.T. -0.00 min

Lab File: VD060518.D

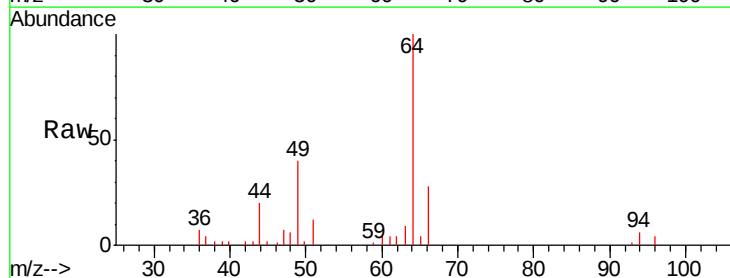
Acq: 10 Dec 2018 12:04

Tgt Ion: 64 Resp: 74050

Ion Ratio Lower Upper

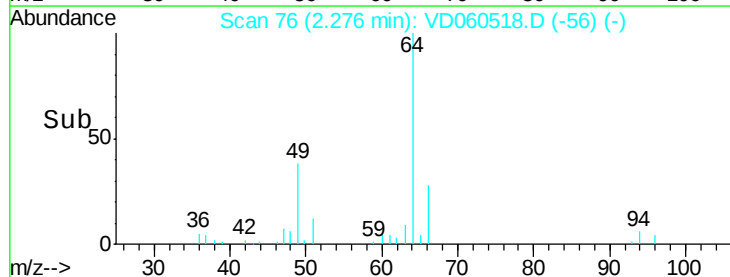
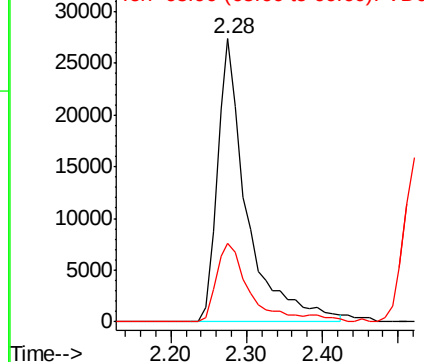
64 100

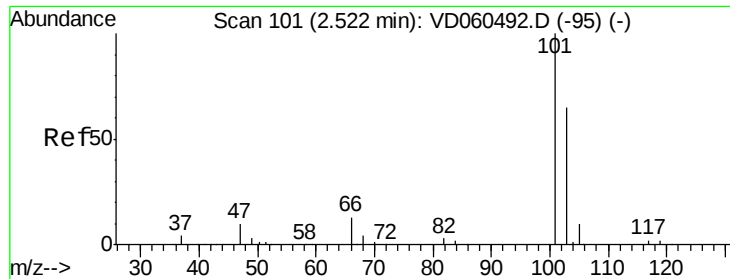
66 27.6 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

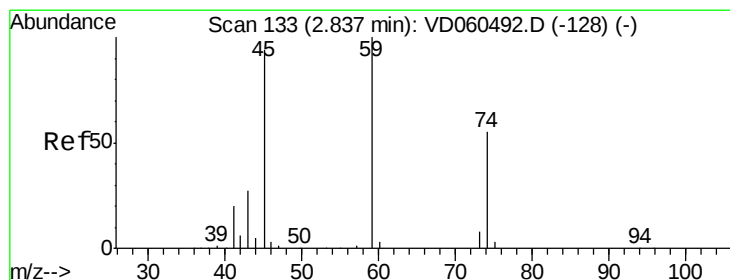
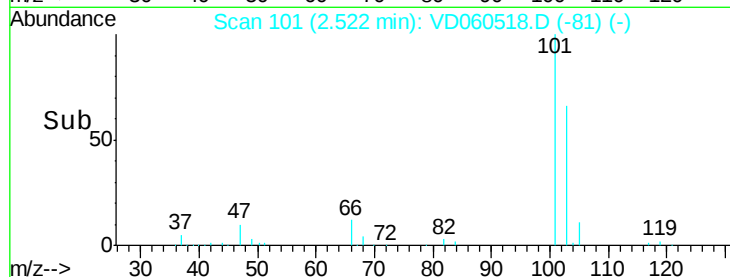
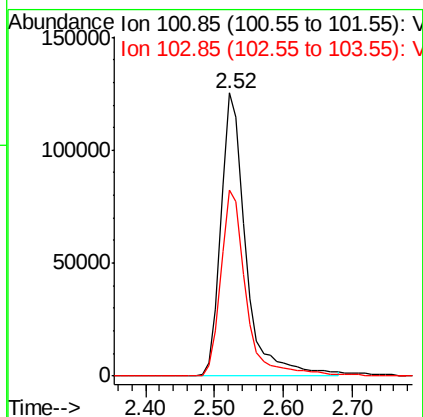
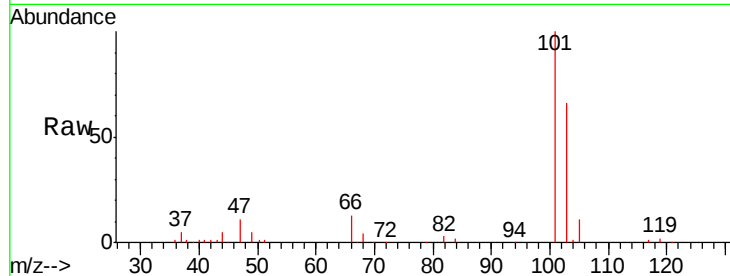
Trichlorofluoromethane  
 Concen: 20.438 ug/l  
 RT: 2.52 min Scan# 101  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBSD01

Tgt Ion: 101 Resp: 314588  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 51.8 77.8

Manual Integrations  
 APPROVED

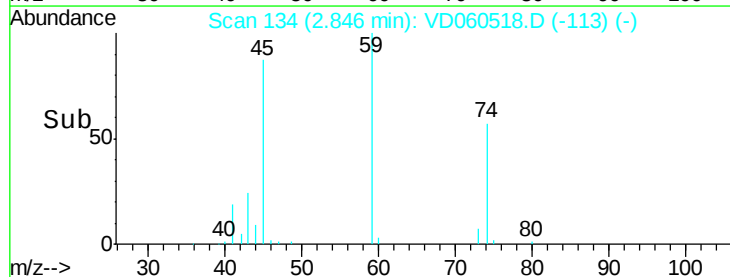
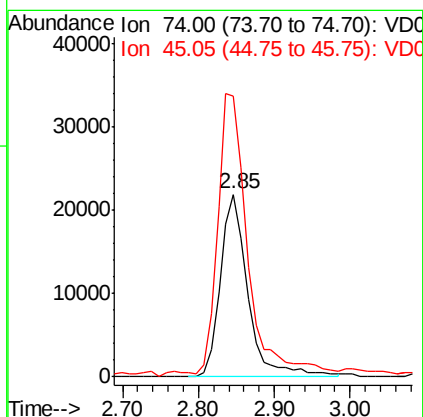
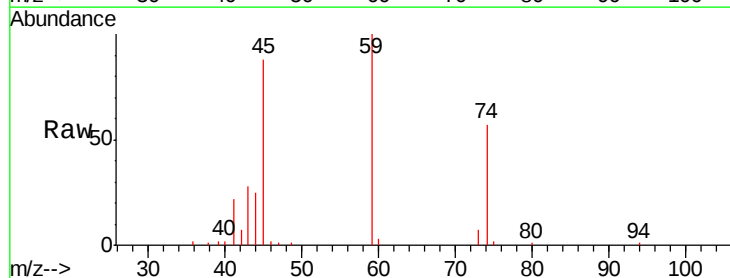
MMDadoda  
 12/11/2018 4:15:11 PM

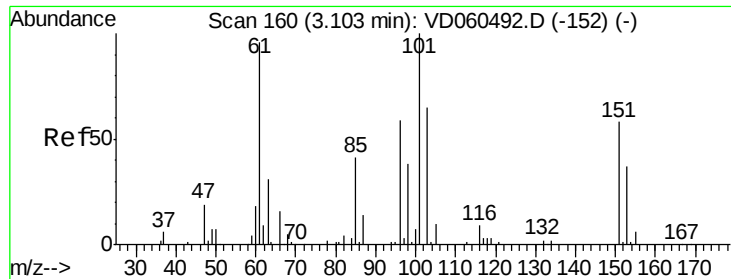


#8

Diethyl Ether  
 Concen: 20.868 ug/l  
 RT: 2.85 min Scan# 134  
 Delta R.T. 0.01 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Tgt Ion: 74 Resp: 55481  
 Ion Ratio Lower Upper  
 74 100  
 45 153.5 86.0 258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.843 ug/l

RT: 3.10 min Scan# 160

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

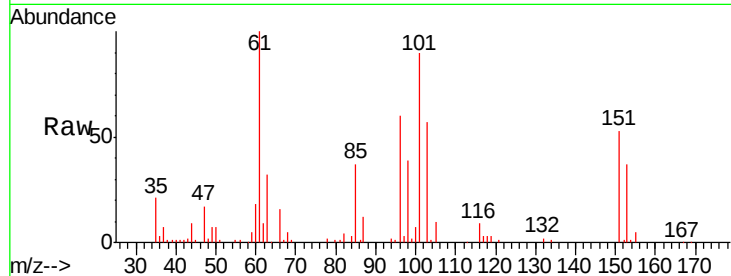
ClientSampleId :

VD1210SBS01

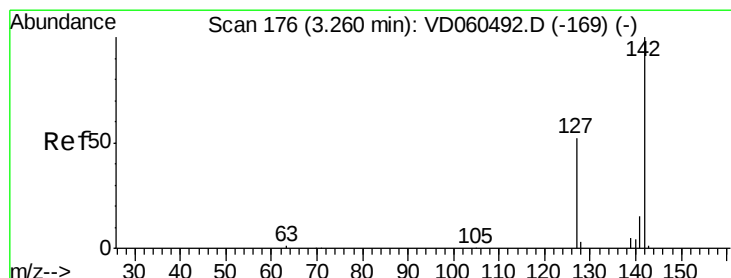
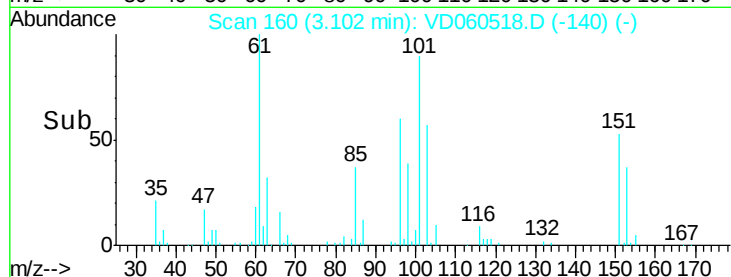
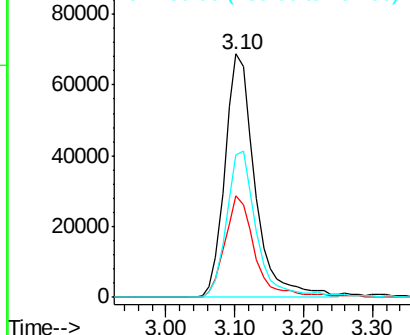
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 101   | Resp: | 208166 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 41.6  | 32.7  | 49.1   |
| 151       | 58.5  | 46.6  | 69.8   |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



Abundance Ion 100.85 (100.55 to 101.55): V  
Ion 84.95 (84.65 to 85.65): V  
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 19.590 ug/l

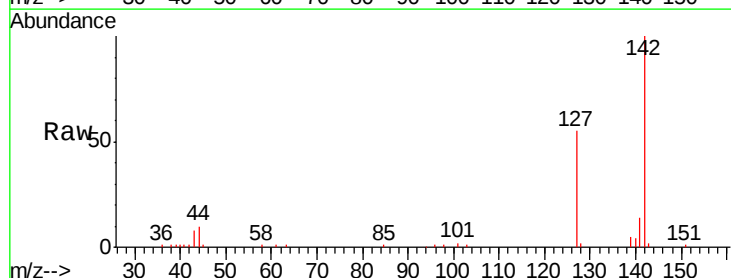
RT: 3.26 min Scan# 176

Delta R.T. -0.00 min

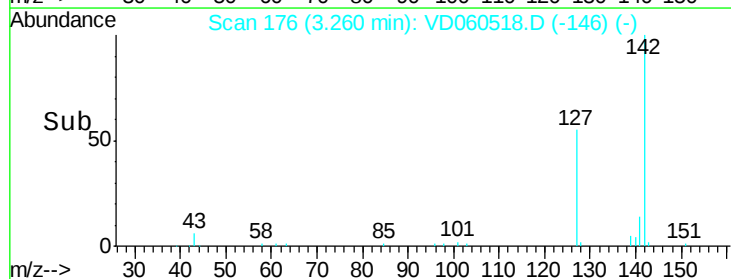
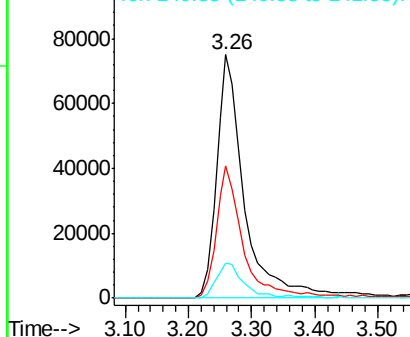
Lab File: VD060518.D

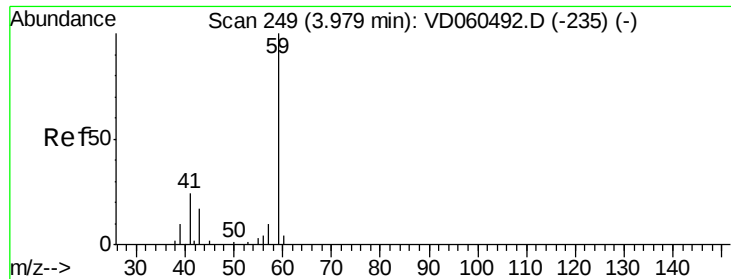
Acq: 10 Dec 2018 12:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 228698 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 54.5  | 41.2  | 61.8   |
| 141       | 14.2  | 11.9  | 17.9   |



Abundance Ion 141.85 (141.55 to 142.55): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.85 (140.55 to 141.55): V





#11

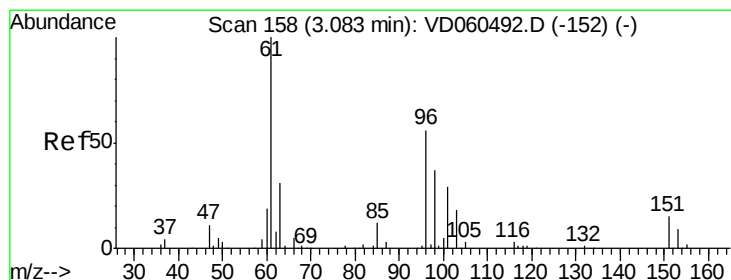
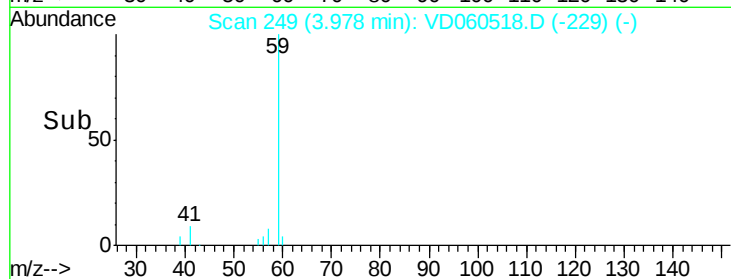
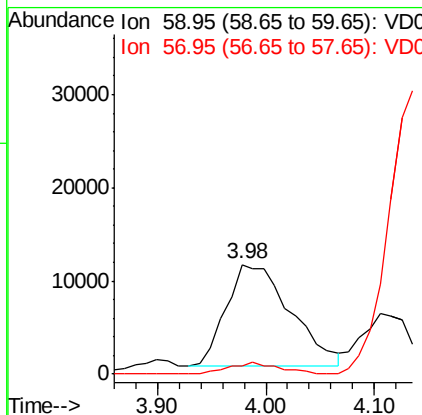
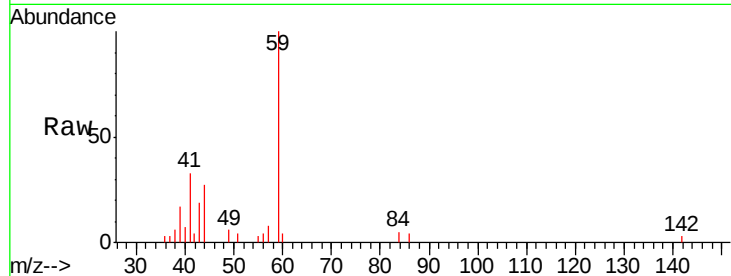
Tert butyl alcohol  
Concen: 96.452 ug/l  
RT: 3.98 min Scan# 249  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 7.8   | 8.1   | 12.1# |

Manual Integrations  
APPROVED

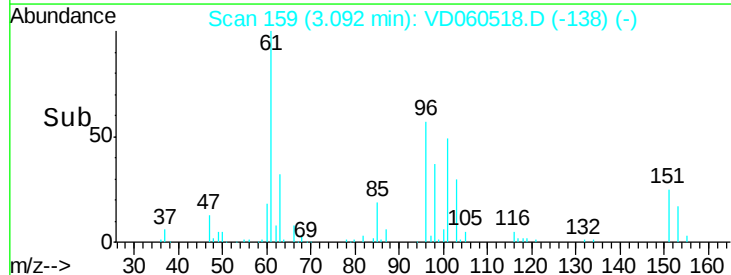
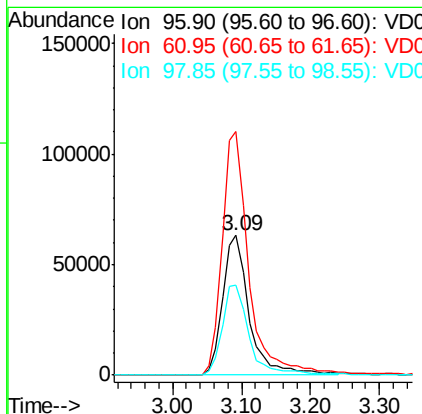
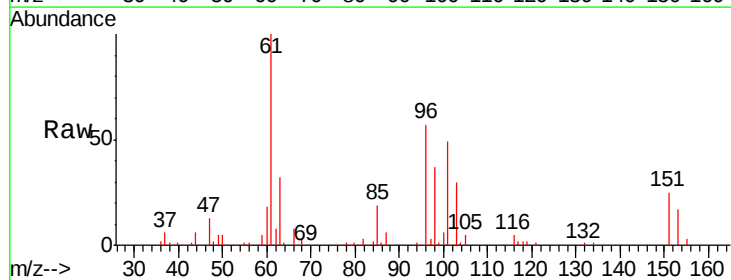
MMDadoda  
12/11/2018 4:15:11 PM

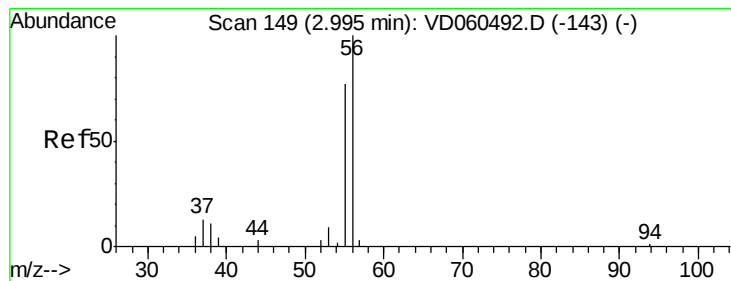


#12

1,1-Dichloroethene  
Concen: 20.998 ug/l  
RT: 3.09 min Scan# 159  
Delta R.T. 0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 174.6 | 143.0 | 214.4 |
| 98      | 64.7  | 53.4  | 80.0  |





#13

Acrolein

Concen: 100.022 ug/l

RT: 3.00 min Scan# 150

Delta R.T. 0.01 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 56 Resp: 51164

Ion Ratio Lower Upper

56 100

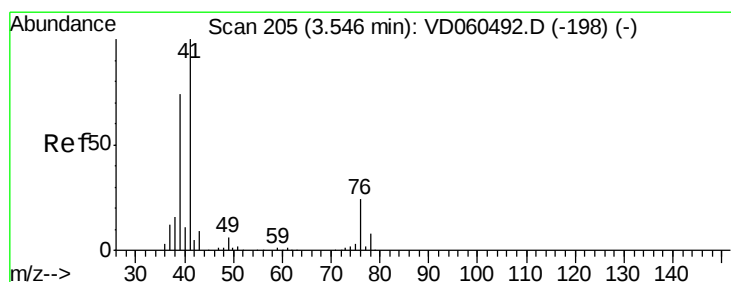
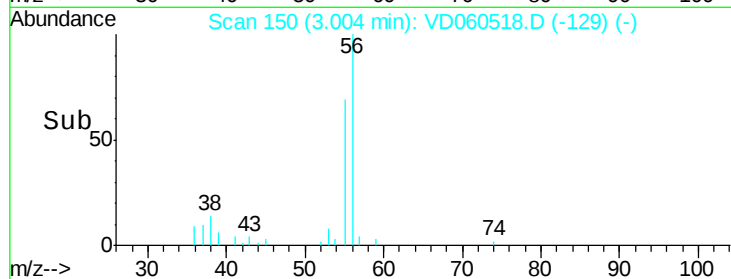
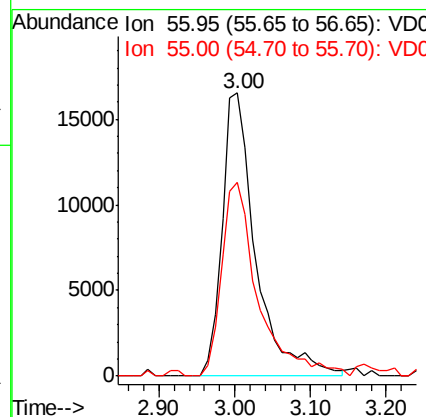
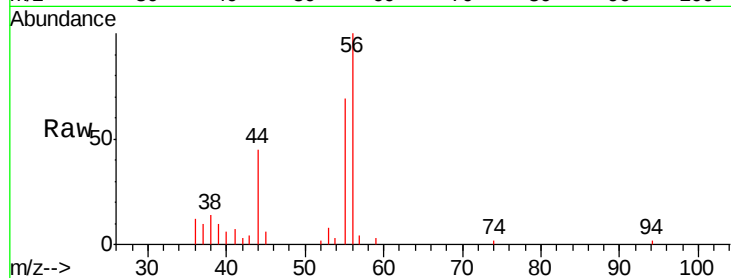
55 68.6 62.0 93.0

Manual Integrations

APPROVED

MMDadoda

12/11/2018 4:15:11 PM



#14

Allyl chloride

Concen: 20.423 ug/l

RT: 3.54 min Scan# 205

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

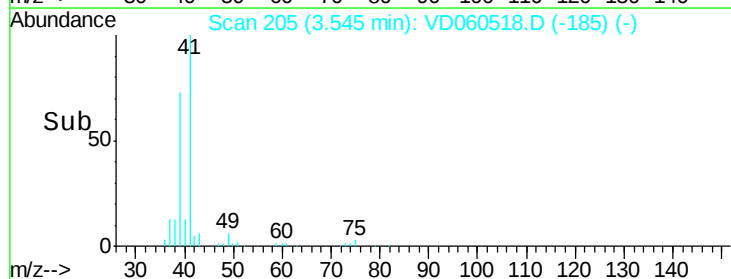
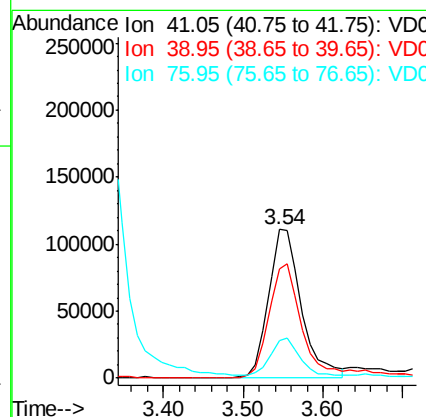
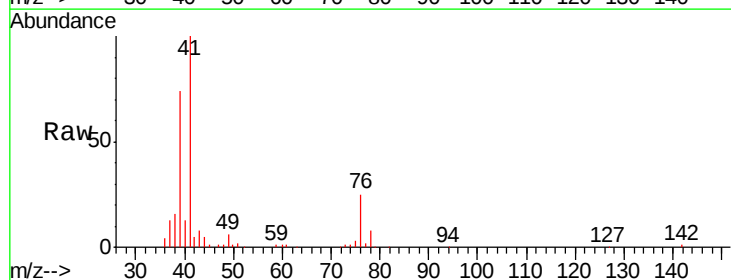
Tgt Ion: 41 Resp: 314868

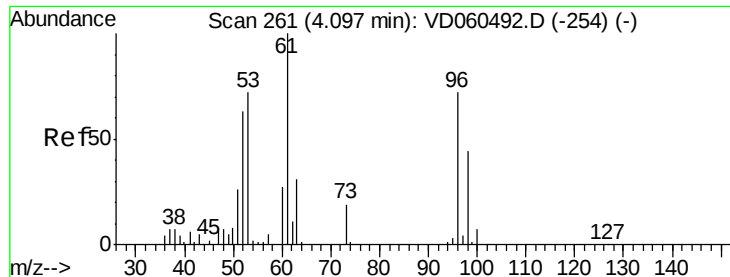
Ion Ratio Lower Upper

41 100

39 73.7 59.3 88.9

76 25.0 21.0 31.6





#15

Acrylonitrile

Concen: 111.122 ug/l

RT: 4.10 min Scan# 261

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 53 Resp: 295378

Ion Ratio Lower Upper

53 100

52 78.9 70.0 105.0

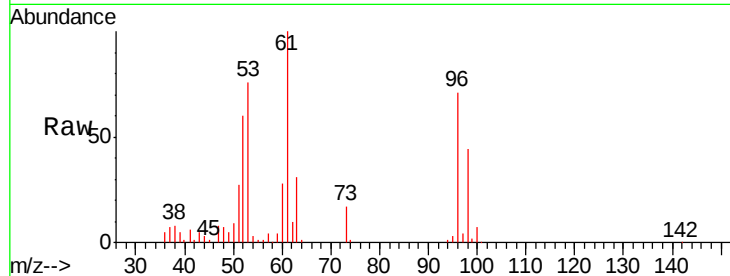
51 36.1 28.8 43.2

Manual Integrations

APPROVED

MMDadoda

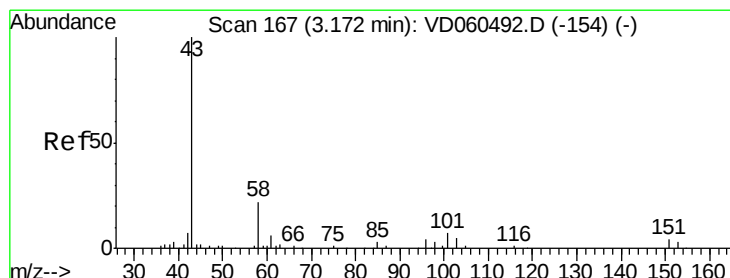
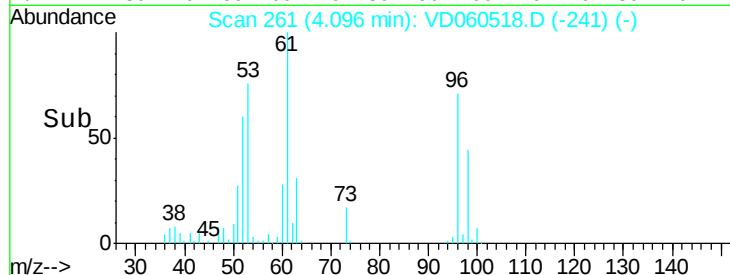
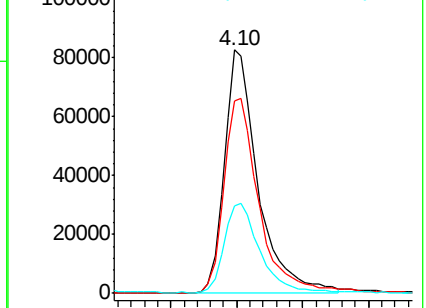
12/11/2018 4:15:11 PM



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 100.502 ug/l

RT: 3.18 min Scan# 168

Delta R.T. 0.01 min

Lab File: VD060518.D

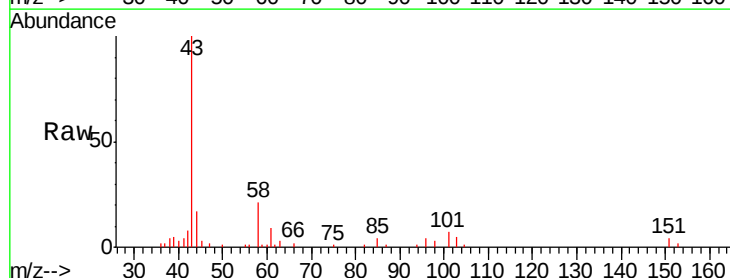
Acq: 10 Dec 2018 12:04

Tgt Ion: 43 Resp: 185629

Ion Ratio Lower Upper

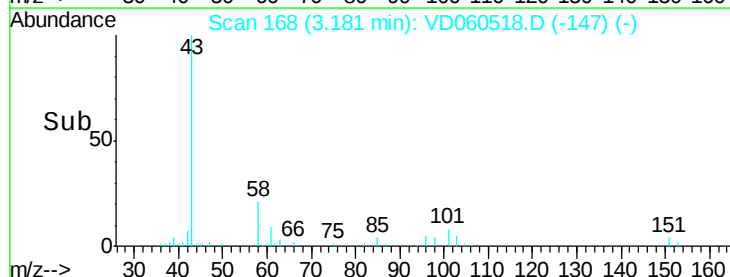
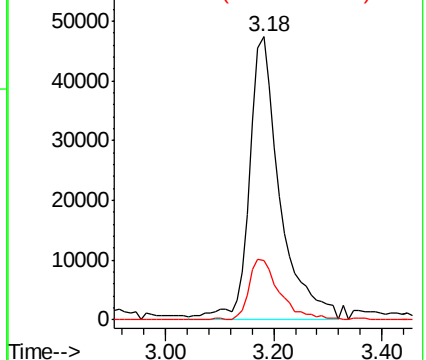
43 100

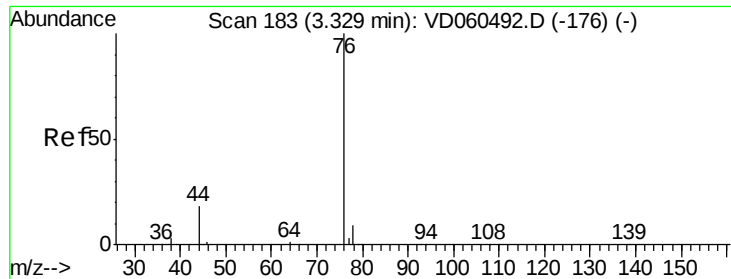
58 21.0 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





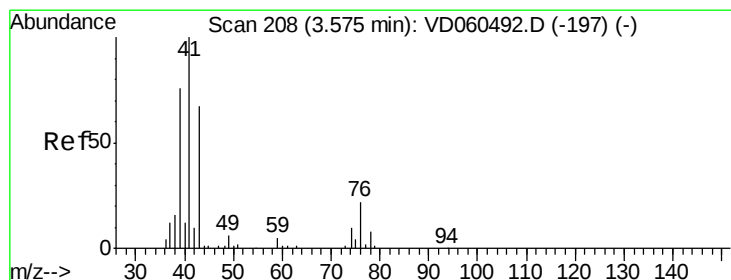
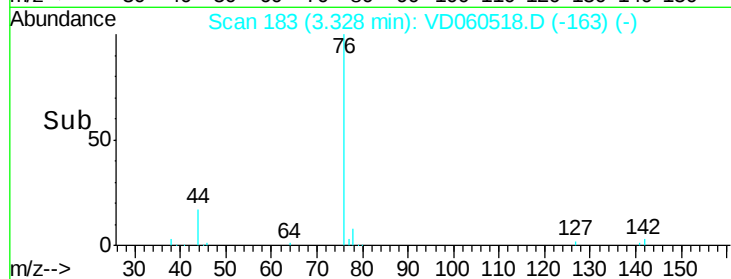
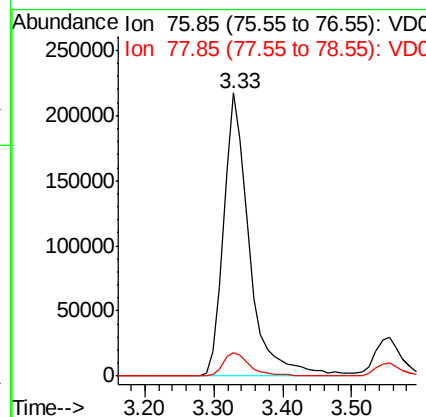
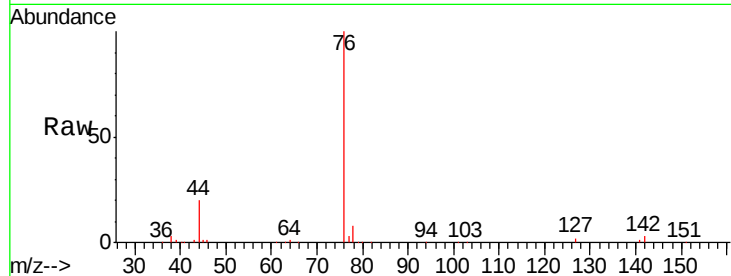
#17  
Carbon Disulfide  
Concen: 21.255 ug/l  
RT: 3.33 min Scan# 183  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 76 Resp: 561021  
Ion Ratio Lower Upper  
76 100  
78 8.4 7.0 10.6

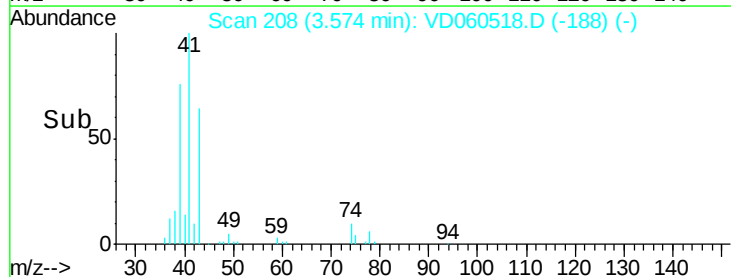
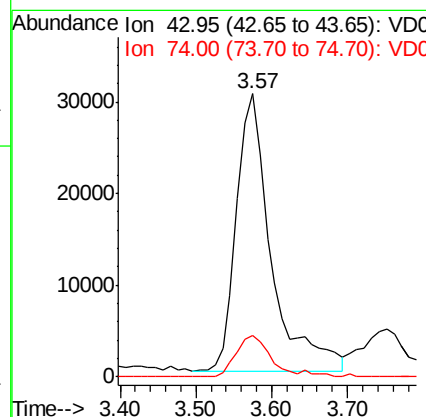
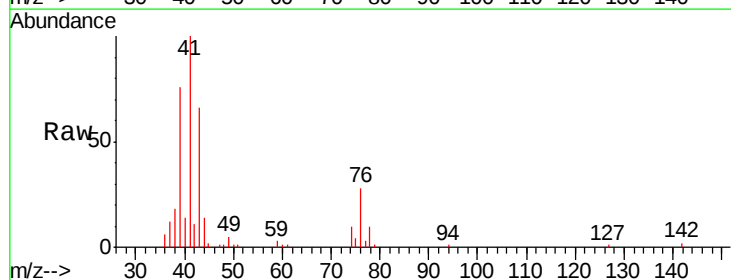
Manual Integrations  
APPROVED

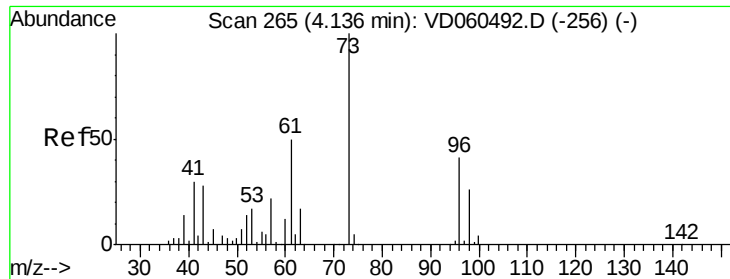
MMDadoda  
12/11/2018 4:15:11 PM



#18  
Methyl Acetate  
Concen: 22.008 ug/l  
RT: 3.57 min Scan# 208  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 43 Resp: 96611  
Ion Ratio Lower Upper  
43 100  
74 14.5 12.0 18.0





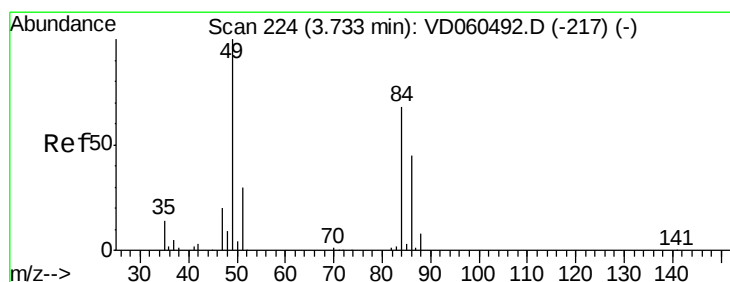
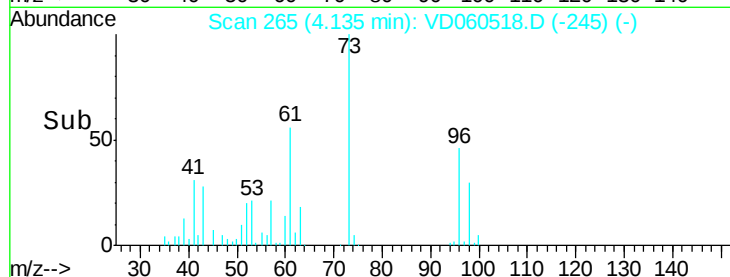
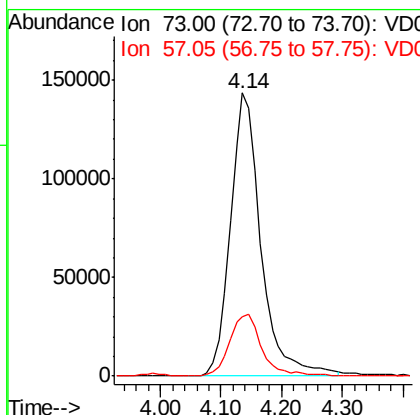
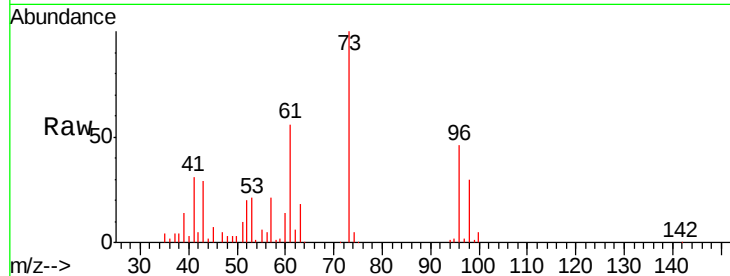
#19  
Methyl tert-butyl Ether  
Concen: 22.258 ug/l  
RT: 4.14 min Scan# 265  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 73 Resp: 501559  
Ion Ratio Lower Upper  
73 100  
57 21.2 17.8 26.6

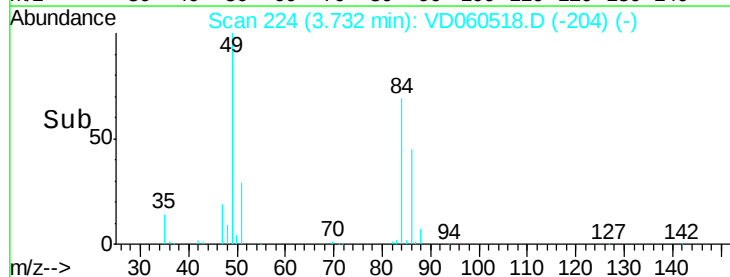
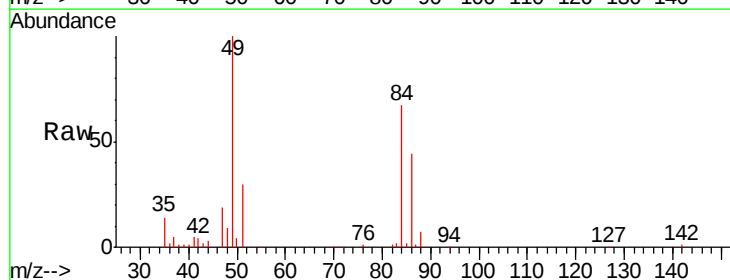
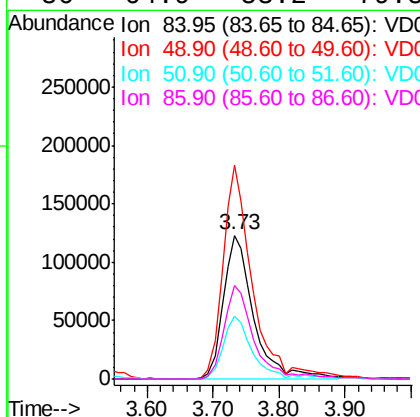
Manual Integrations  
APPROVED

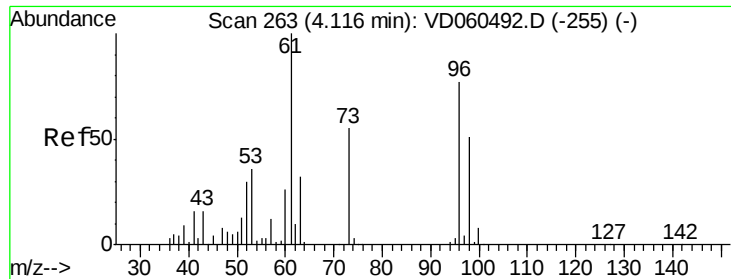
MMDadoda  
12/11/2018 4:15:11 PM



#20  
Methylene Chloride  
Concen: 20.564 ug/l  
RT: 3.73 min Scan# 224  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 84 Resp: 393416  
Ion Ratio Lower Upper  
84 100  
49 148.4 117.2 175.8  
51 43.9 35.3 52.9  
86 64.9 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.824 ug/l

RT: 4.12 min Scan# 263

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 96 Resp: 385758

Ion Ratio Lower Upper

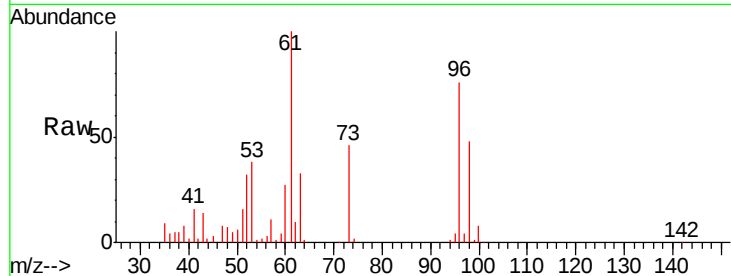
96 100

61 131.1 104.2 156.4

98 62.7 52.8 79.2

Manual Integrations  
APPROVED

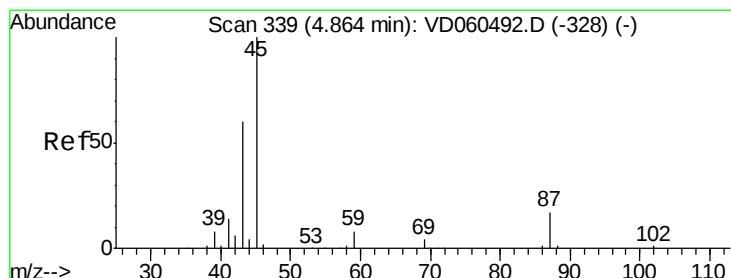
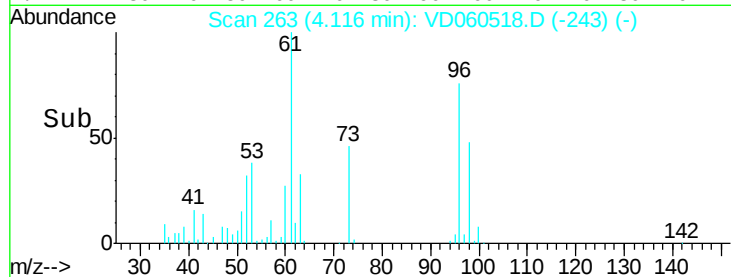
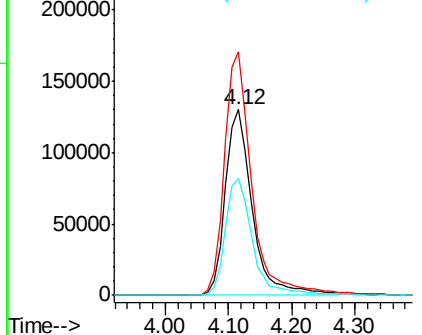
MMDadoda  
12/11/2018 4:15:11 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 21.996 ug/l

RT: 4.86 min Scan# 339

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Tgt Ion: 45 Resp: 1217527

Ion Ratio Lower Upper

45 100

43 63.2 48.6 73.0

87 16.8 14.0 21.0

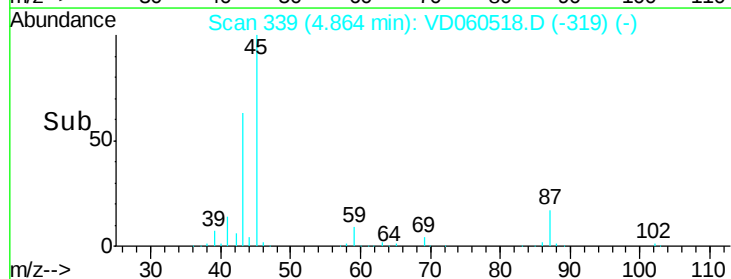
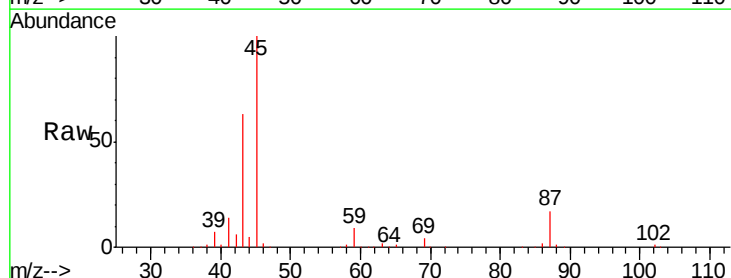
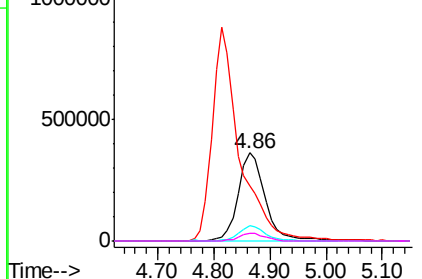
59 8.7 6.9 10.3

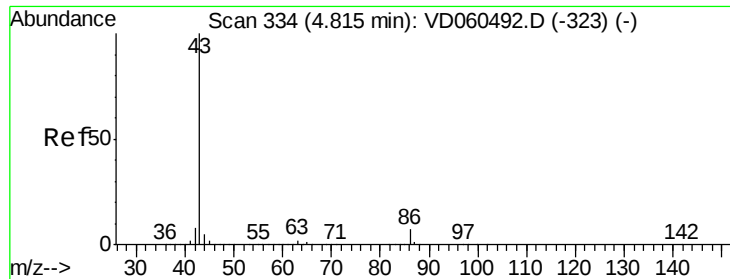
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 109.218 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 43 Resp: 2995321

Ion Ratio Lower Upper

43 100

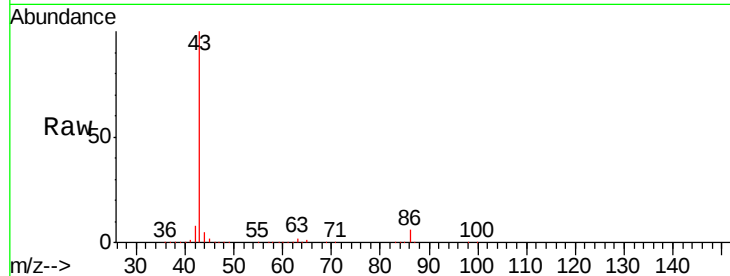
86 6.3 5.5 8.3

Manual Integrations

APPROVED

MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

4.81

800000

600000

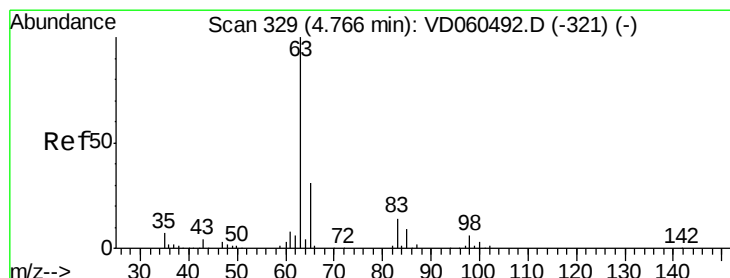
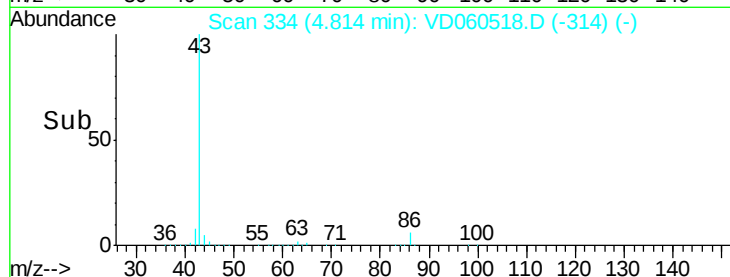
400000

200000

0

4.70 4.80 4.90 5.00

Time-->



#24

1,1-Dichloroethane

Concen: 21.289 ug/l

RT: 4.77 min Scan# 329

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

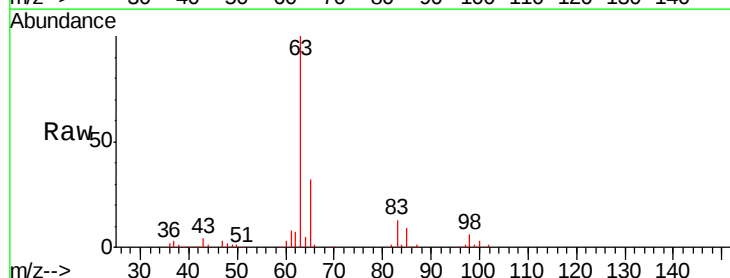
Tgt Ion: 63 Resp: 612188

Ion Ratio Lower Upper

63 100

98 5.8 2.8 8.3

100 3.3 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.77

250000

200000

150000

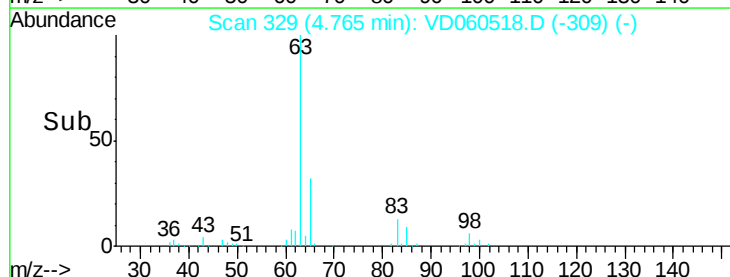
100000

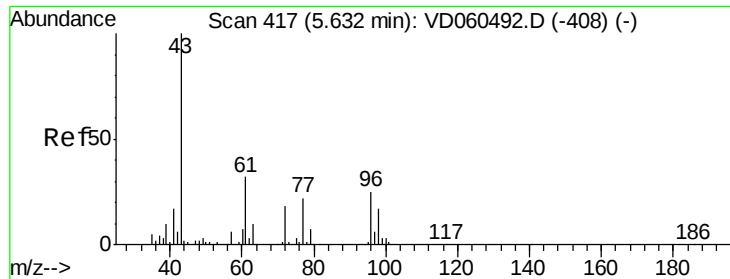
50000

0

4.60 4.70 4.80 4.90 5.00

Time-->





#25

2-Butanone

Concen: 105.958 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 43 Resp: 385034

Ion Ratio Lower Upper

43 100

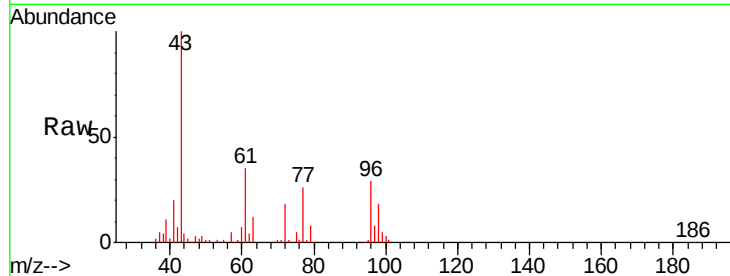
72 18.1 14.6 21.8

Manual Integrations

APPROVED

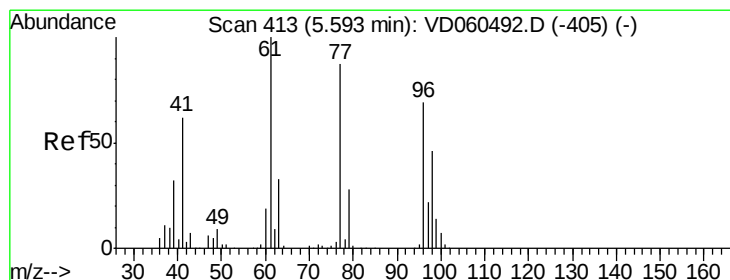
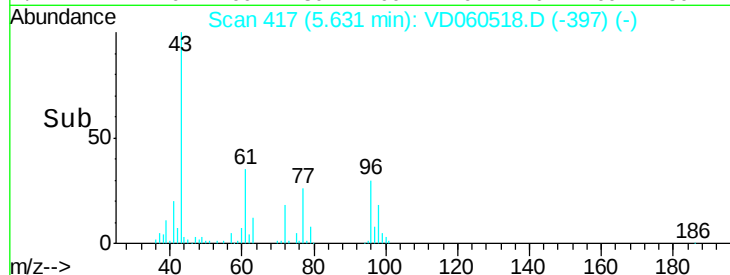
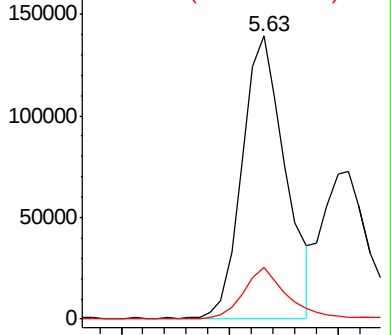
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.971 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.00 min

Lab File: VD060518.D

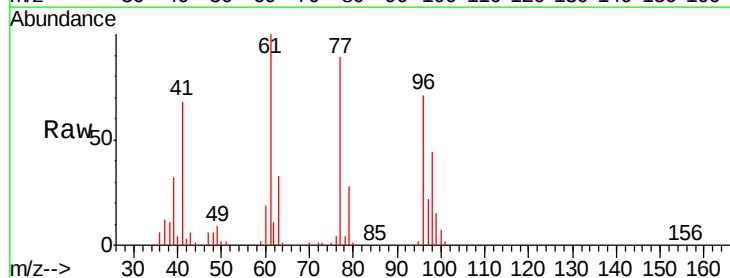
Acq: 10 Dec 2018 12:04

Tgt Ion: 77 Resp: 488081

Ion Ratio Lower Upper

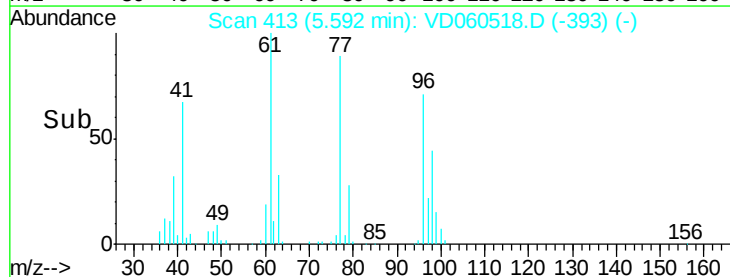
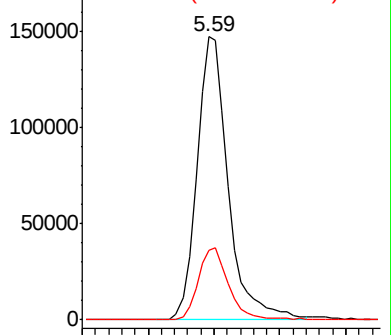
77 100

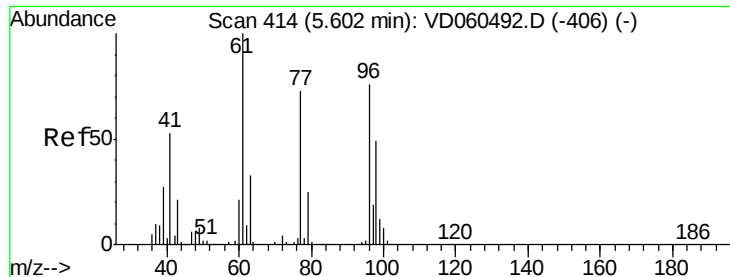
97 24.8 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





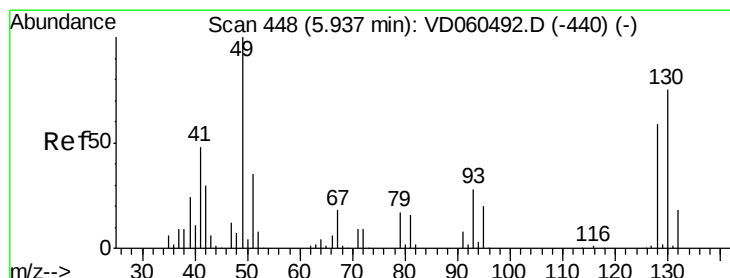
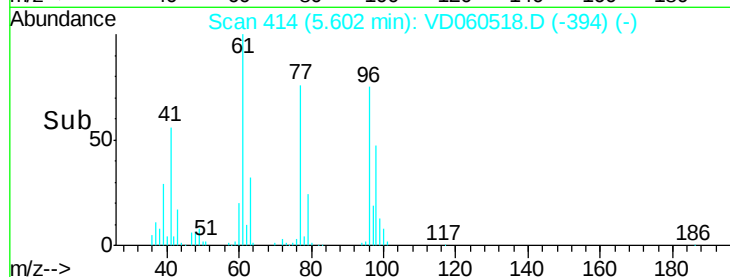
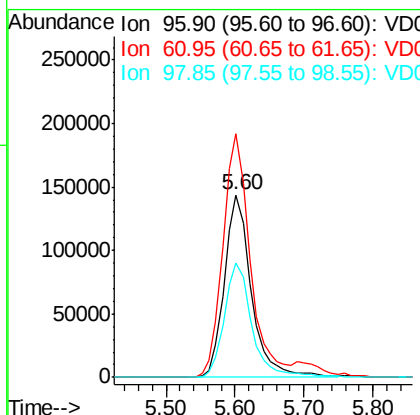
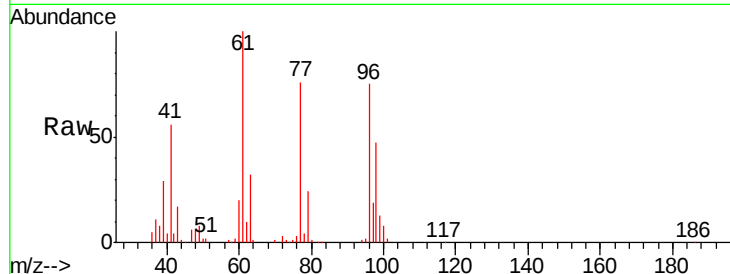
#27  
 cis-1,2-Dichloroethene  
 Concen: 21.770 ug/l  
 RT: 5.60 min Scan# 414  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 391251 |       |       |
| 61      | 133.4 | 0.0    | 263.6 |       |
| 98      | 62.4  | 0.0    | 128.2 |       |

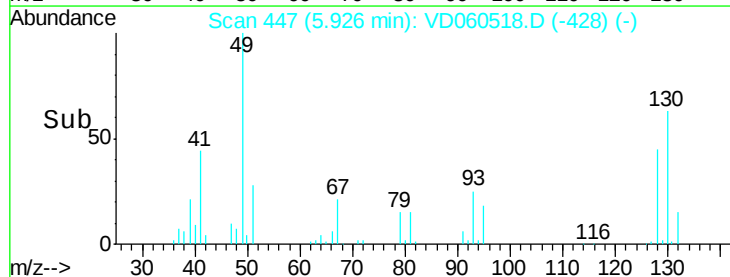
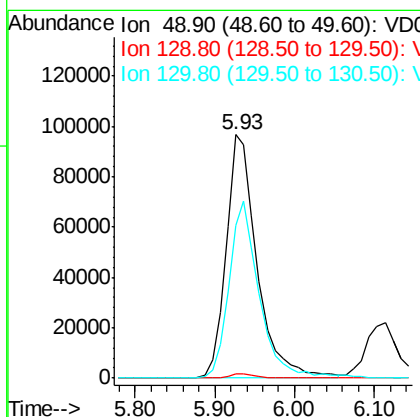
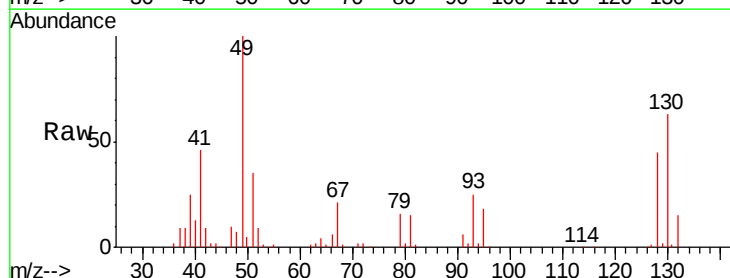
Manual Integrations  
 APPROVED

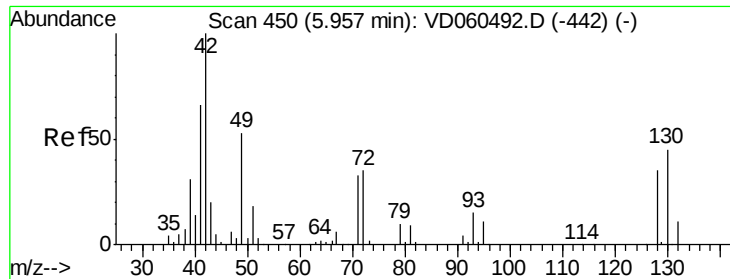
MMDadoda  
 12/11/2018 4:15:11 PM



#28  
 Bromochloromethane  
 Concen: 20.571 ug/l  
 RT: 5.93 min Scan# 447  
 Delta R.T. -0.01 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 49      | 100   | 262052 |       |       |
| 129     | 1.6   | 0.0    | 3.4   |       |
| 130     | 62.8  | 59.8   | 89.6  |       |





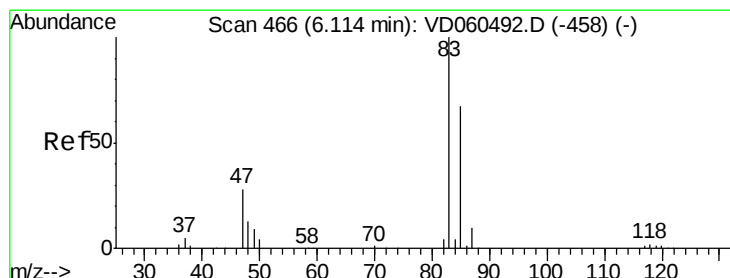
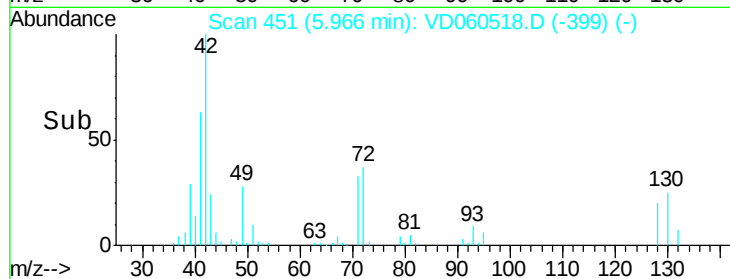
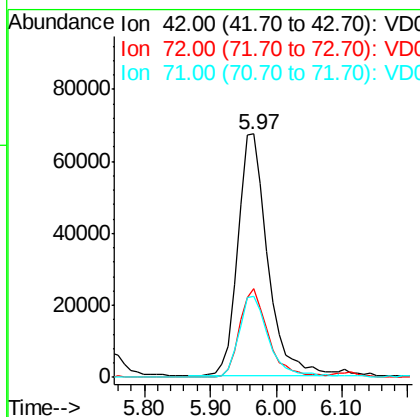
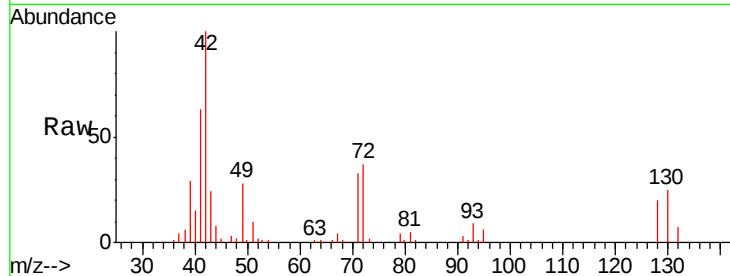
#29  
Tetrahydrofuran  
Concen: 104.984 ug/l  
RT: 5.97 min Scan# 451  
Delta R.T. 0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 34.9  | 28.0  | 42.0  |
| 71      | 33.3  | 27.2  | 40.8  |

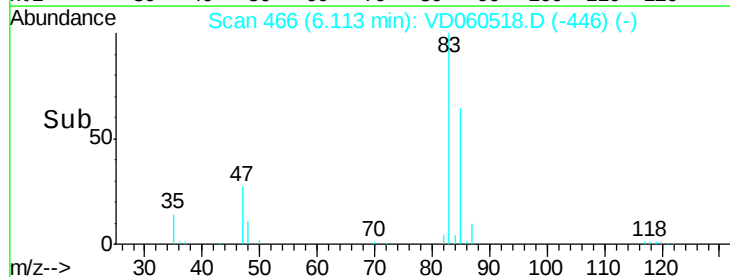
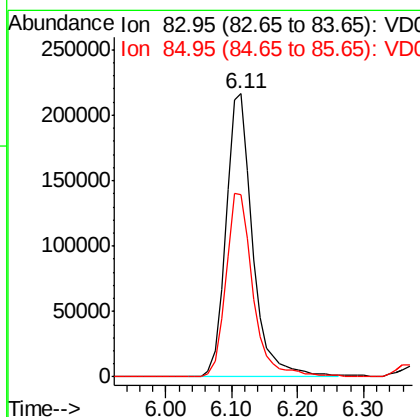
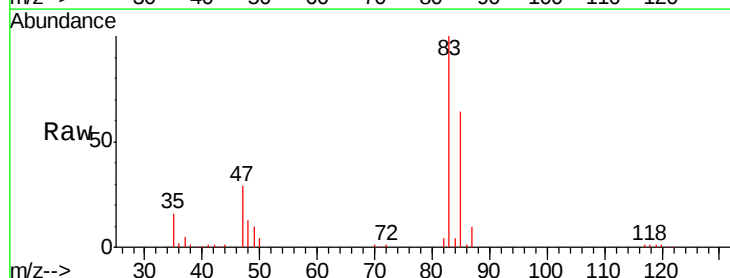
Manual Integrations  
APPROVED

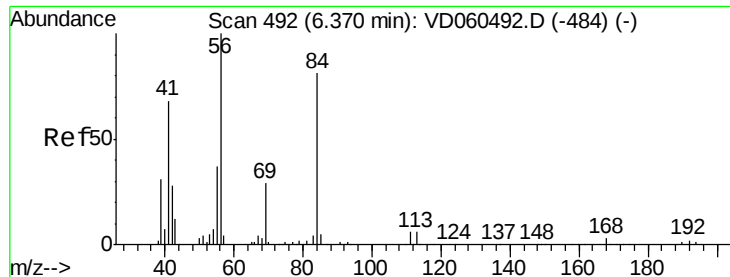
MMDadoda  
12/11/2018 4:15:11 PM



#30  
Chloroform  
Concen: 21.097 ug/l  
RT: 6.11 min Scan# 466  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.3  | 53.4  | 80.2  |





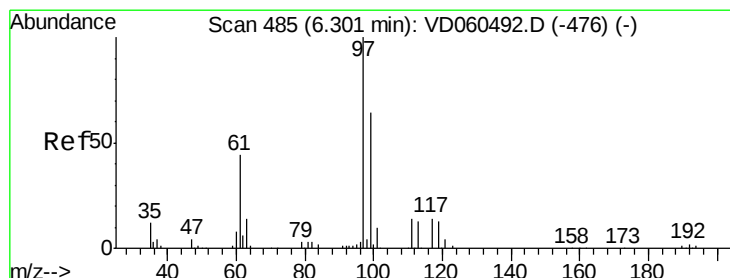
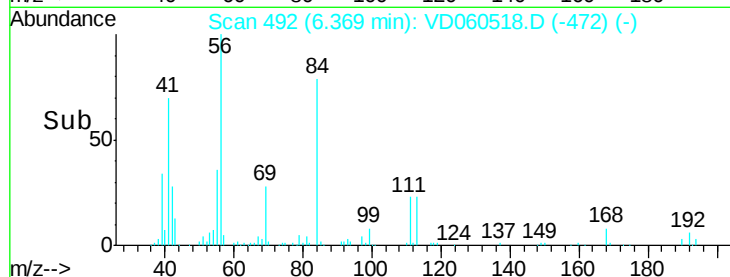
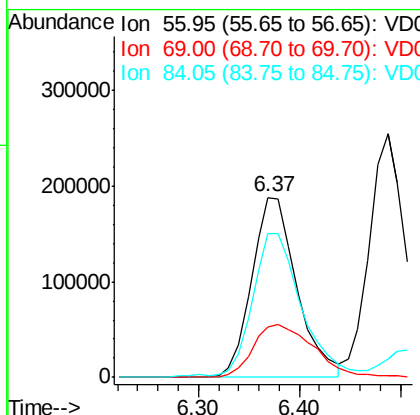
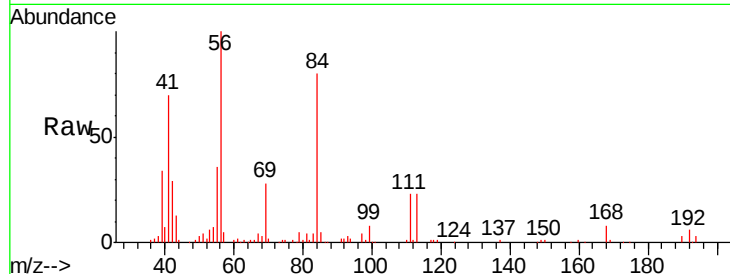
#31  
Cyclohexane  
Concen: 21.514 ug/l  
RT: 6.37 min Scan# 492  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 28.2  | 22.8  | 34.2  |
| 84      | 79.7  | 65.1  | 97.7  |

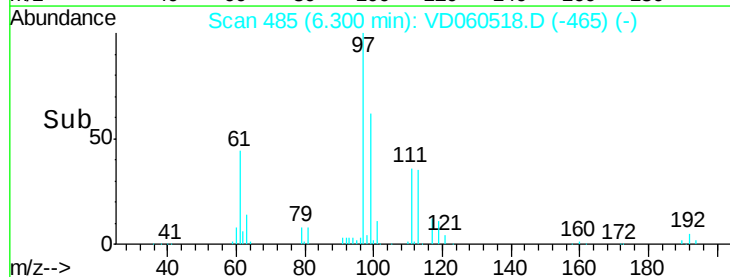
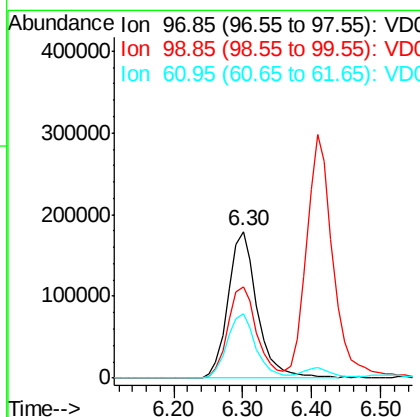
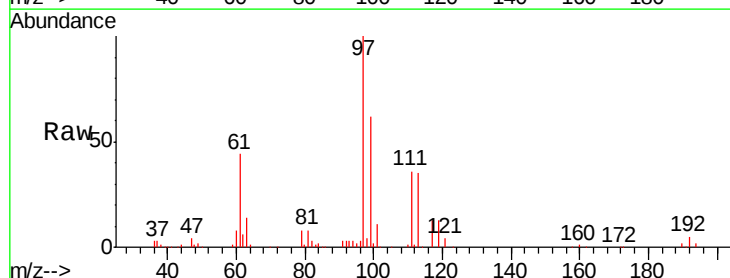
Manual Integrations  
APPROVED

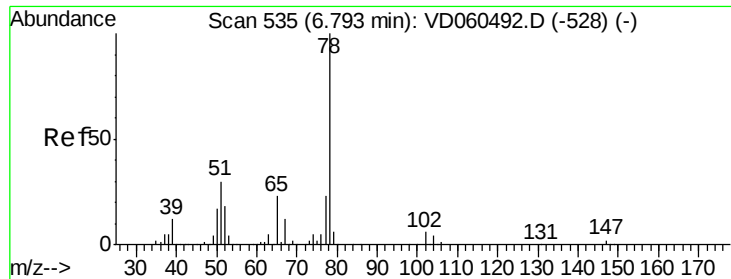
MMDadoda  
12/11/2018 4:15:11 PM



#32  
1,1,1-Trichloroethane  
Concen: 21.967 ug/l  
RT: 6.30 min Scan# 485  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 62.3  | 51.0  | 76.4  |
| 61      | 43.6  | 35.3  | 52.9  |





#33

1,2-Dichloroethane-d4

Concen: 21.967 ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 65 Resp: 625504

Ion Ratio Lower Upper

65 100

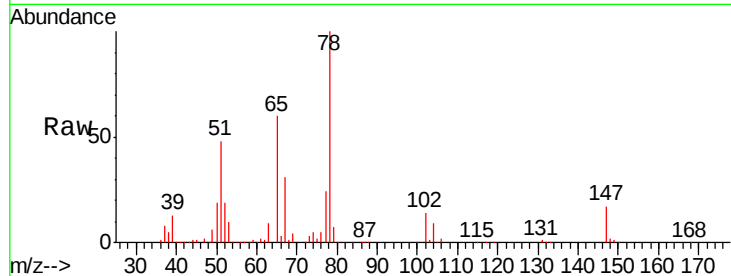
67 52.2 0.0 106.8

Manual Integrations

APPROVED

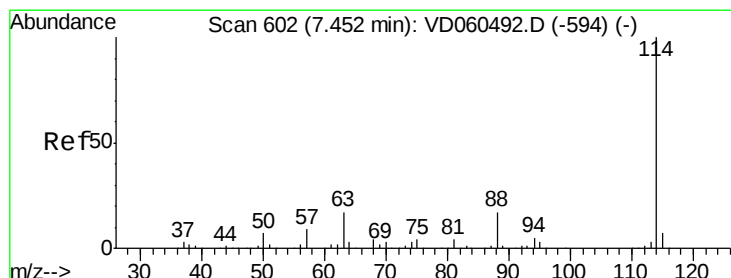
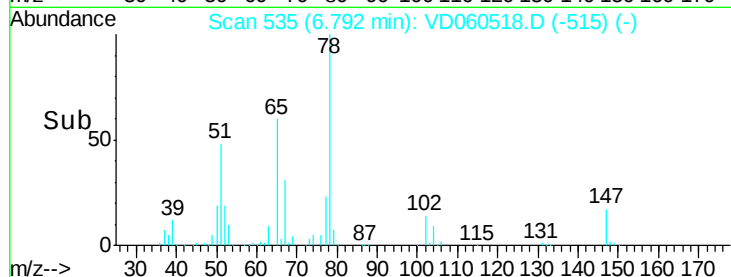
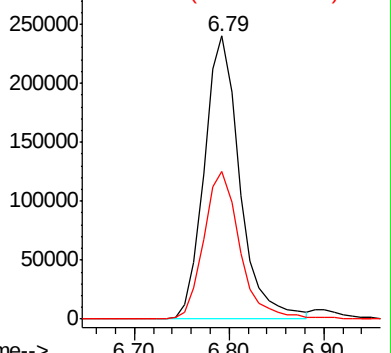
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.01 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

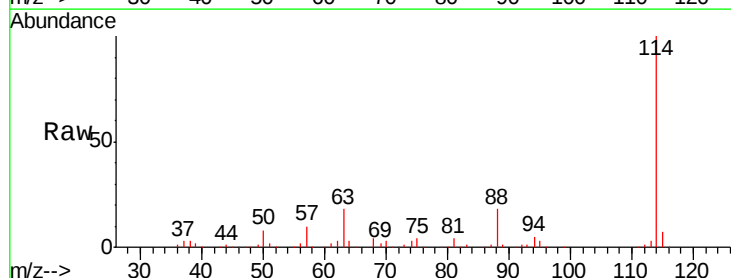
Tgt Ion: 114 Resp: 2277794

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.2

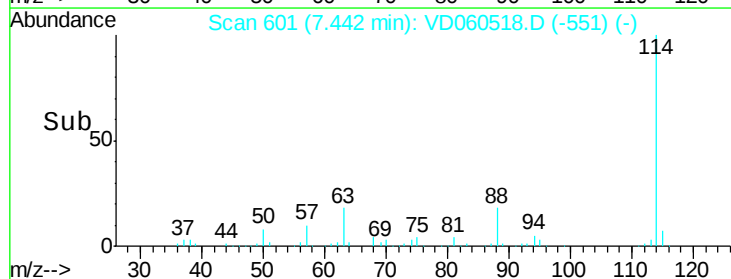
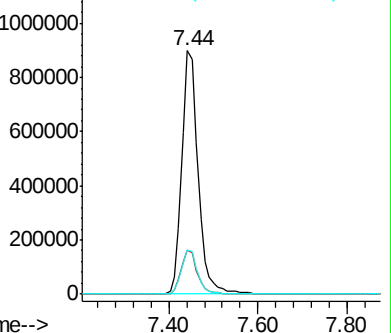
88 17.8 0.0 35.0

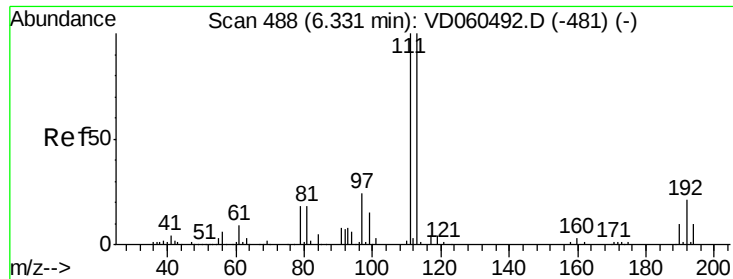


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





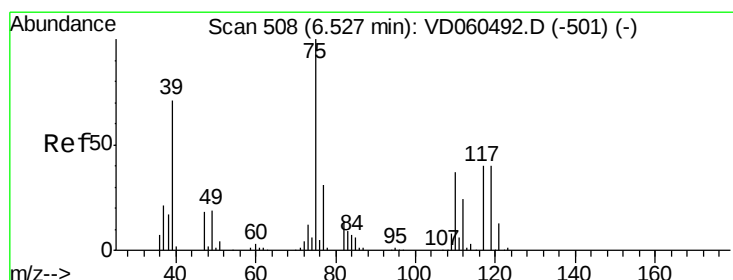
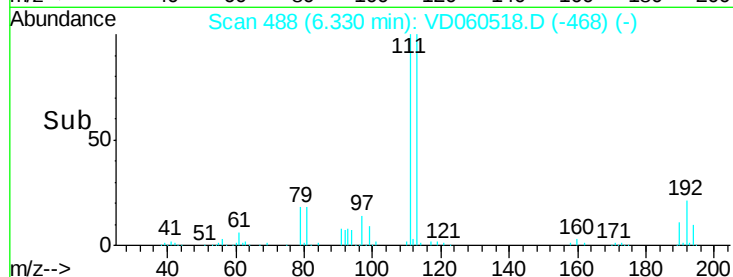
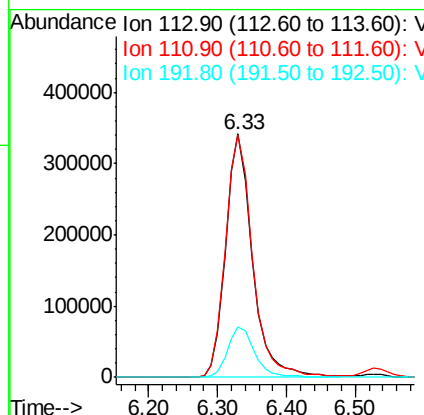
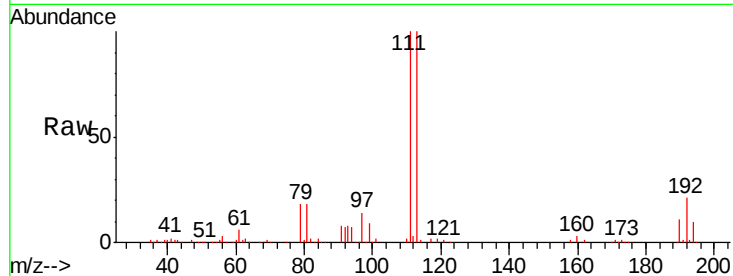
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.33 min Scan# 488  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 920651 |       |       |
| 111     | 99.6  | 80.2   | 120.4 |       |
| 192     | 20.8  | 16.6   | 24.8  |       |

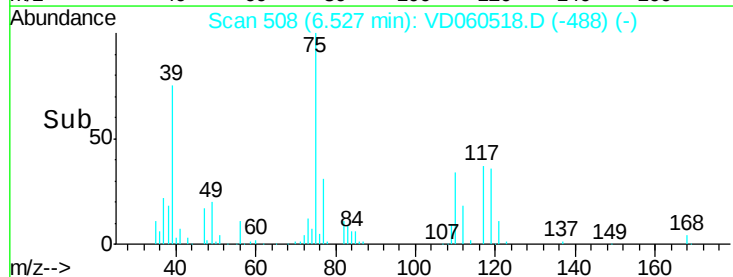
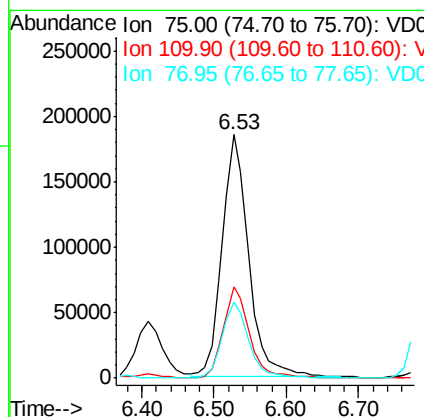
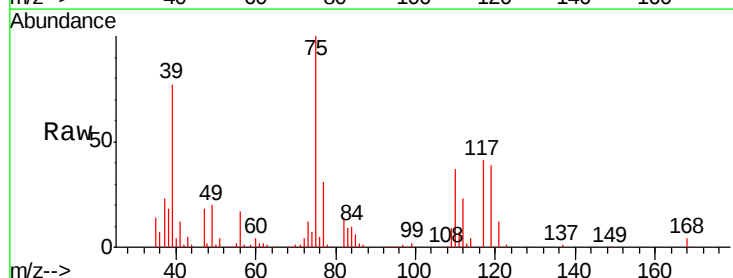
Manual Integrations  
 APPROVED

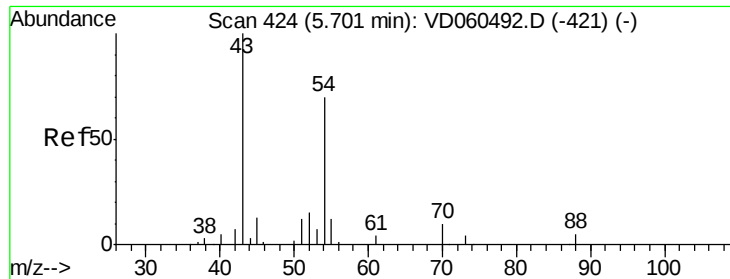
MMDadoda  
 12/11/2018 4:15:11 PM



#36  
 1,1-Dichloropropene  
 Concen: 21.110 ug/l  
 RT: 6.53 min Scan# 508  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 470020 |       |       |
| 110     | 37.3  | 18.3   | 54.8  |       |
| 77      | 31.0  | 24.6   | 37.0  |       |





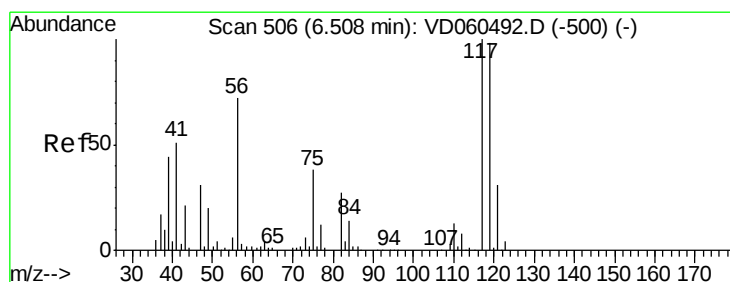
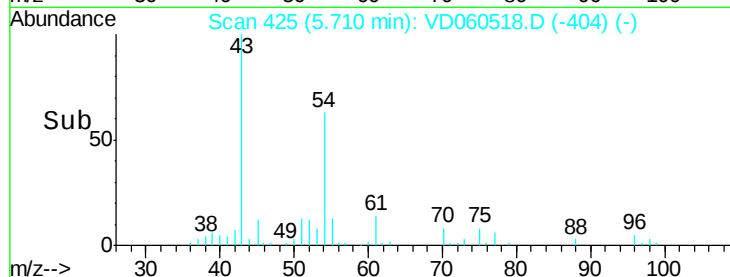
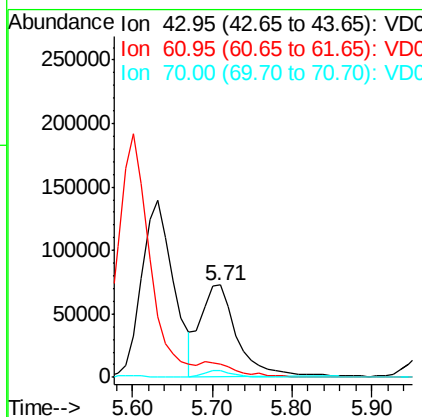
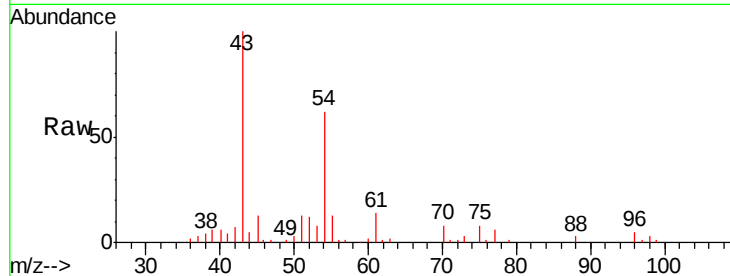
#37  
Ethyl Acetate  
Concen: 23.223 ug/l  
RT: 5.71 min Scan# 425  
Delta R.T. 0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.3  | 12.4  | 18.6  |
| 70      | 7.5   | 5.4   | 8.0   |

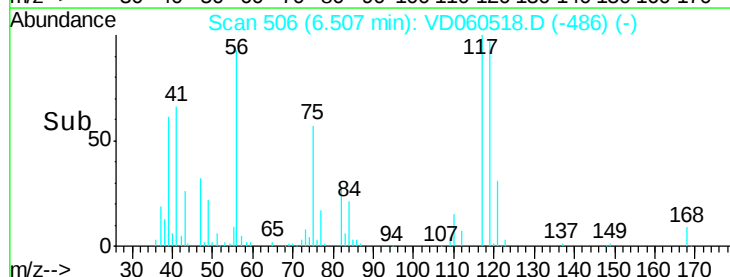
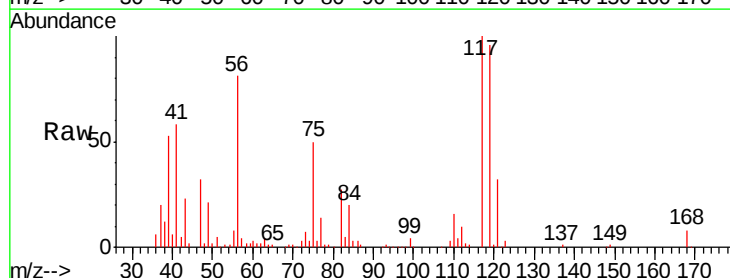
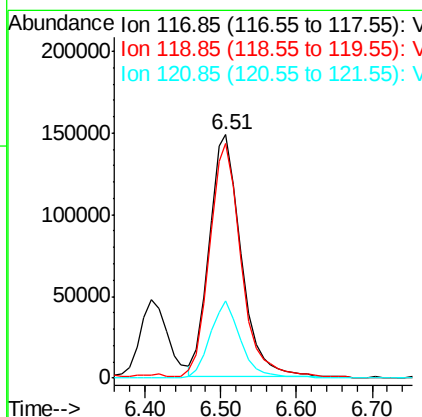
Manual Integrations  
APPROVED

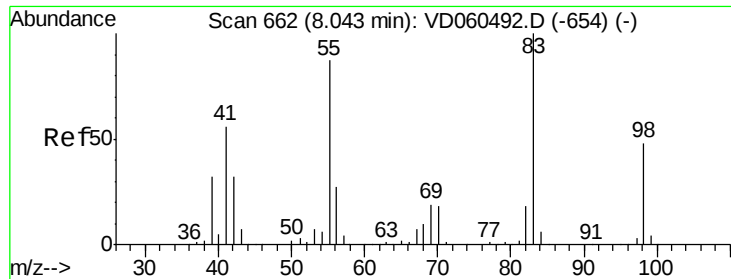
MMDadoda  
12/11/2018 4:15:11 PM



#38  
Carbon Tetrachloride  
Concen: 21.776 ug/l  
RT: 6.51 min Scan# 506  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.2  | 76.8  | 115.2 |
| 121     | 31.5  | 24.4  | 36.6  |





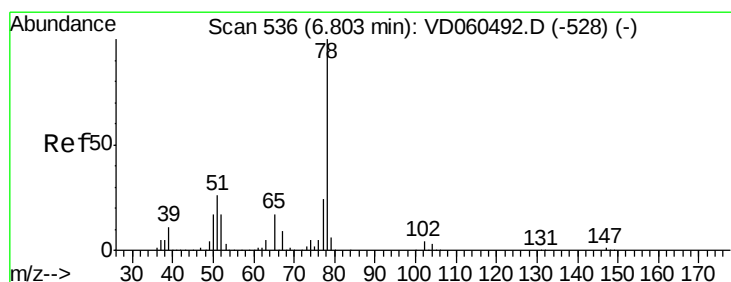
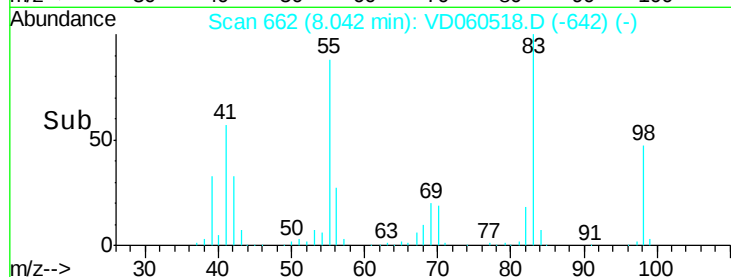
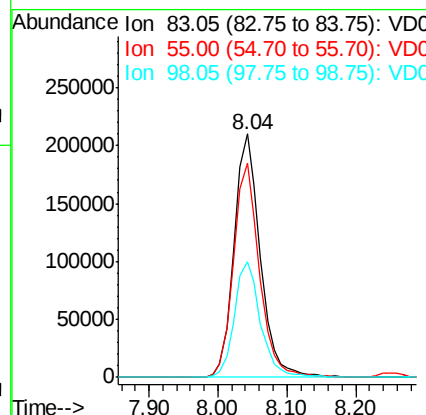
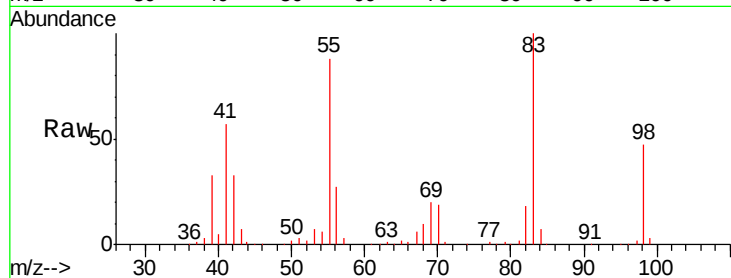
#39  
Methylcyclohexane  
Concen: 21.749 ug/l  
RT: 8.04 min Scan# 662  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 88.1  | 69.8  | 104.8 |
| 98      | 47.4  | 38.4  | 57.6  |

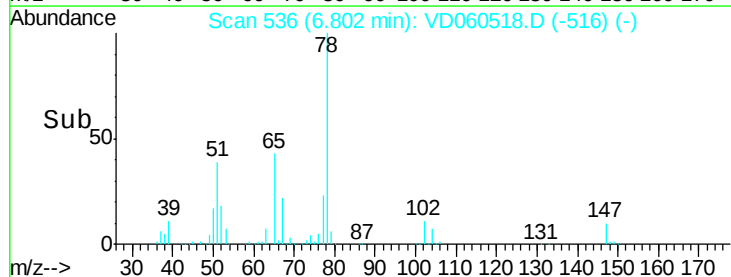
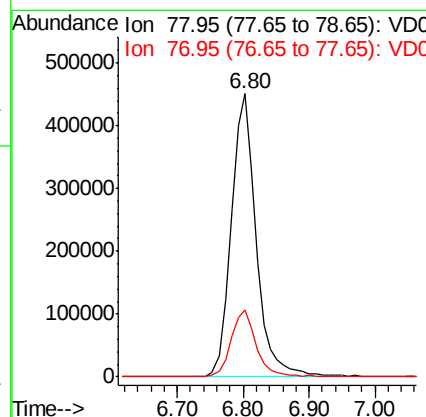
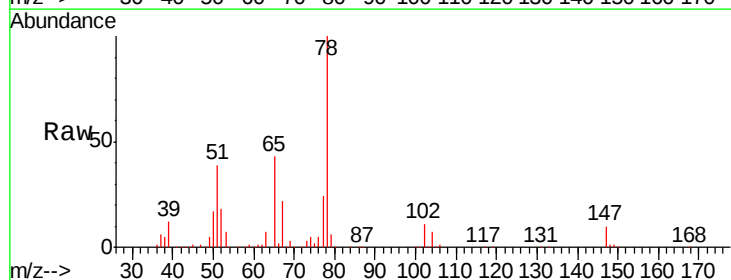
Manual Integrations  
APPROVED

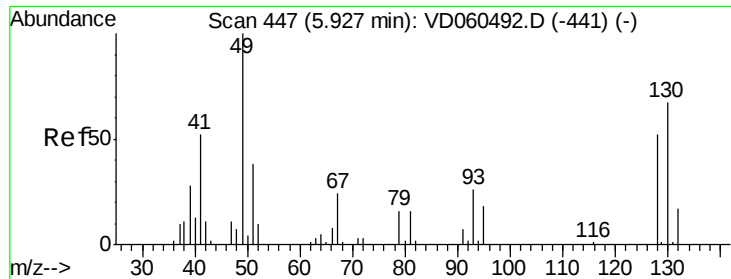
MMDadoda  
12/11/2018 4:15:11 PM



#40  
Benzene  
Concen: 20.998 ug/l  
RT: 6.80 min Scan# 536  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.6  | 18.9  | 28.3  |





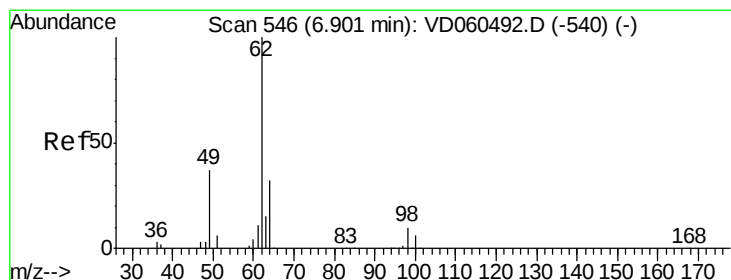
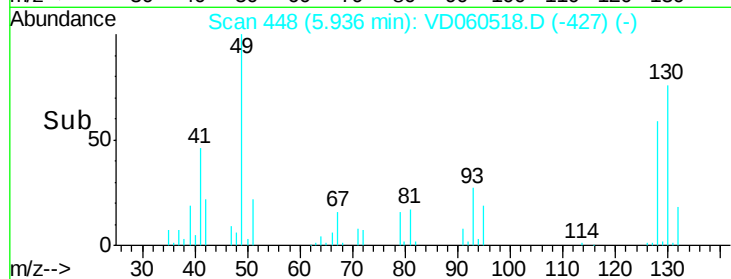
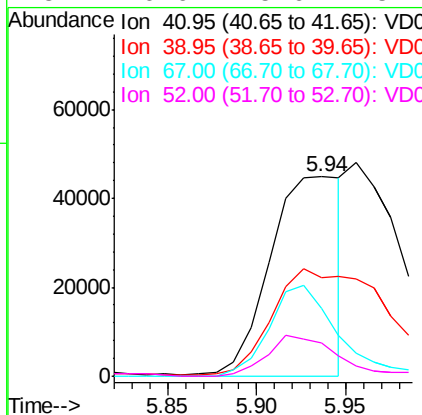
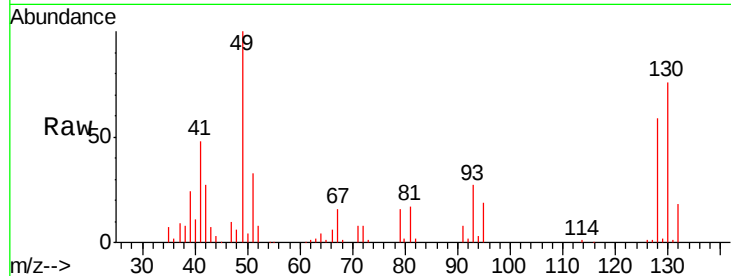
#41  
Methacrylonitrile  
Concen: 24.436 ug/l m  
RT: 5.94 min Scan# 448  
Delta R.T. 0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 49.3  | 42.6  | 63.8  |
| 67      | 34.0  | 36.2  | 54.4  |
| 52      | 16.6  | 15.6  | 23.4  |

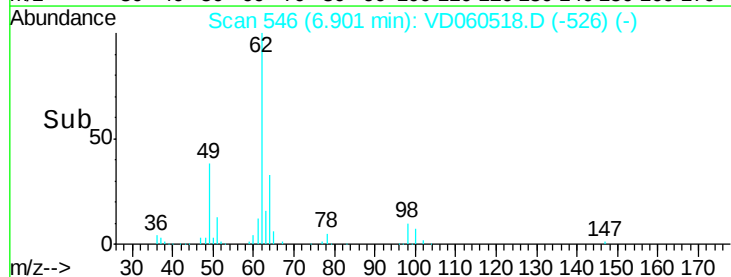
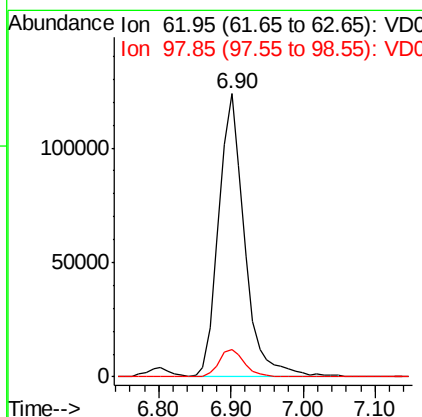
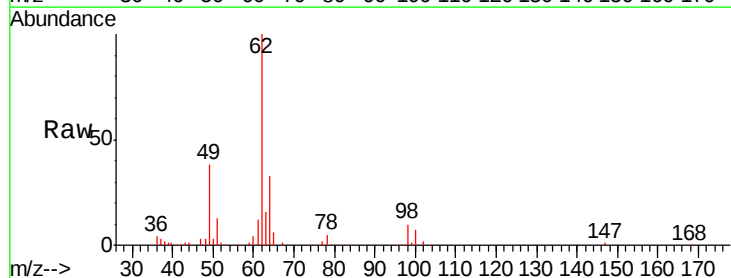
Manual Integrations  
APPROVED

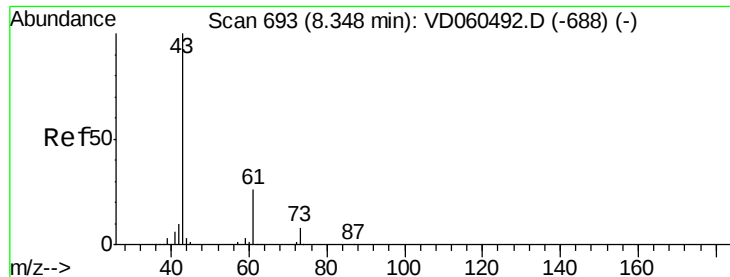
MMDadoda  
12/11/2018 4:15:11 PM



#42  
1,2-Dichloroethane  
Concen: 21.078 ug/l  
RT: 6.90 min Scan# 546  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 9.8   | 0.0   | 20.2  |





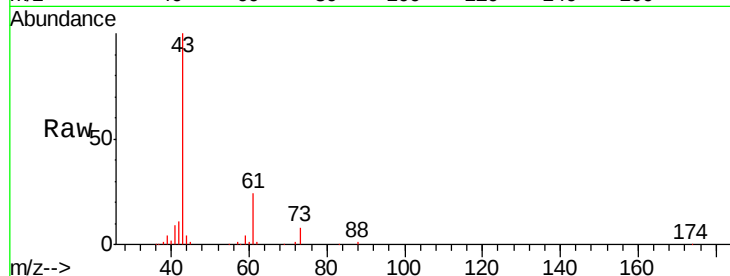
#43  
Isopropyl Acetate  
Concen: 21.839 ug/l  
RT: 8.35 min Scan# 693  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBSD01

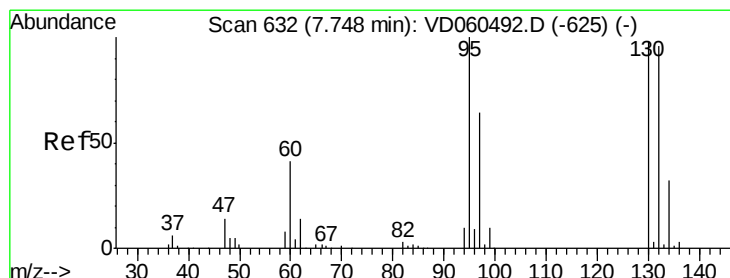
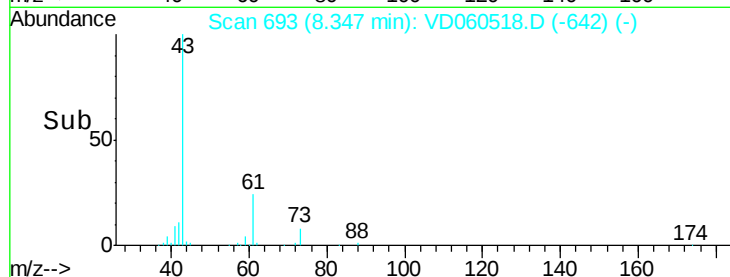
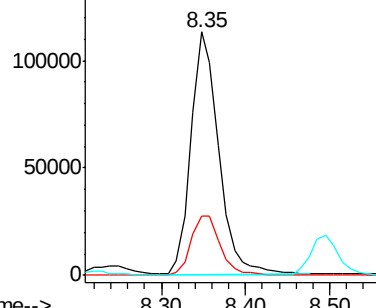
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 24.4  | 21.0  | 31.4  |
| 87      | 0.0   | 0.2   | 0.2   |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM

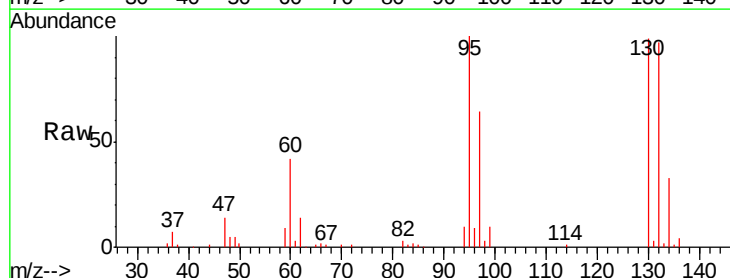


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 87.00 (86.70 to 87.70): VDC

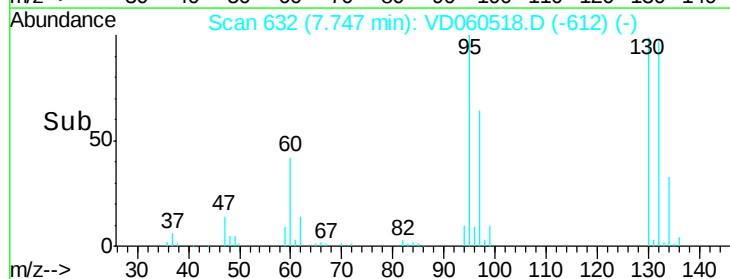
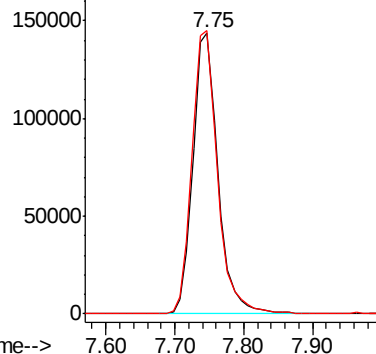


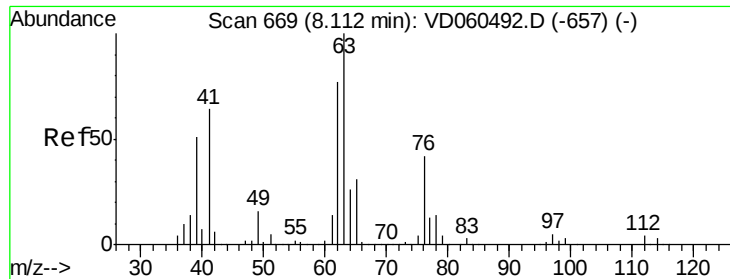
#44  
Trichloroethene  
Concen: 21.337 ug/l  
RT: 7.75 min Scan# 632  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 100.6 | 0.0   | 203.8 |



Abundance Ion 129.80 (129.50 to 130.50): VDC  
Ion 94.90 (94.60 to 95.60): VDC





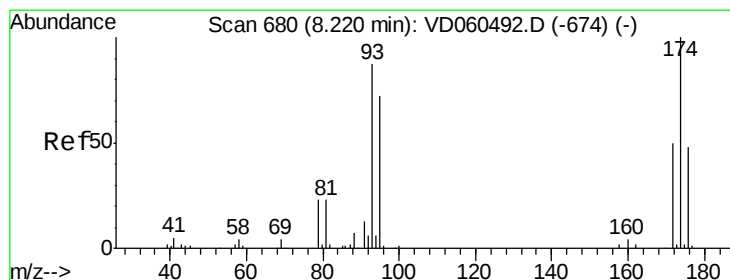
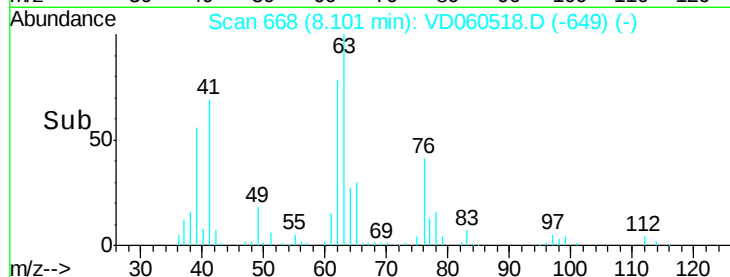
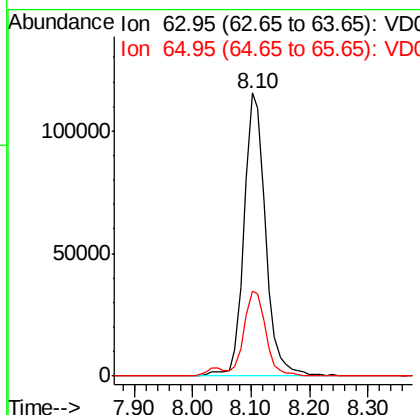
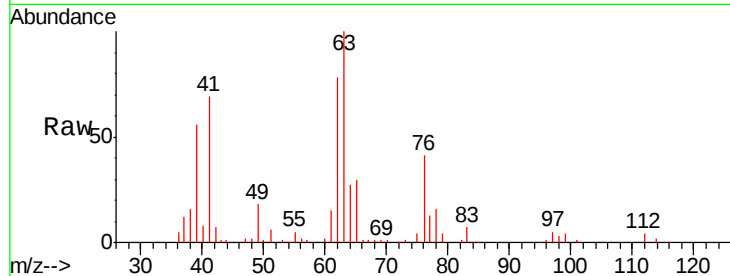
#45  
 1,2-Dichloropropane  
 Concen: 21.188 ug/l  
 RT: 8.10 min Scan# 668  
 Delta R.T. -0.01 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBSD01

Tgt Ion: 63 Resp: 298180  
 Ion Ratio Lower Upper  
 63 100  
 65 29.8 24.6 37.0

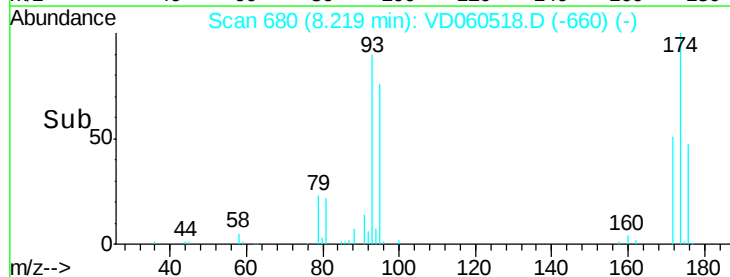
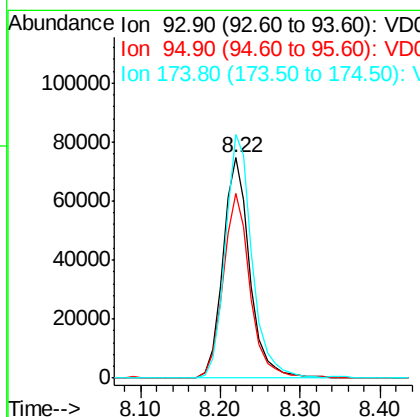
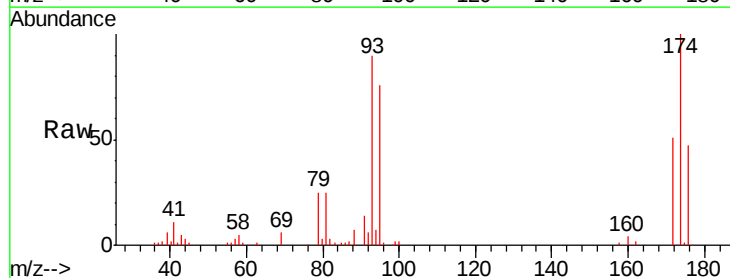
Manual Integrations  
 APPROVED

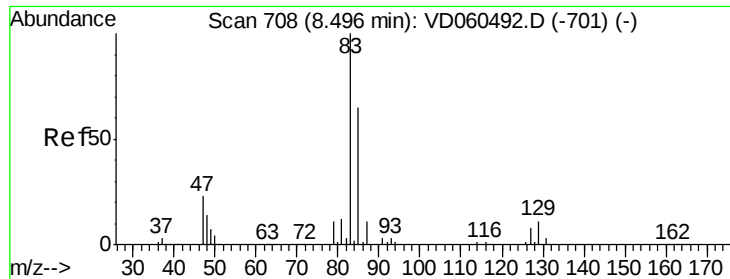
MMDadoda  
 12/11/2018 4:15:11 PM



#46  
 Dibromomethane  
 Concen: 21.640 ug/l  
 RT: 8.22 min Scan# 680  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Tgt Ion: 93 Resp: 175961  
 Ion Ratio Lower Upper  
 93 100  
 95 84.0 65.6 98.4  
 174 110.7 91.7 137.5





#47

Bromodichloromethane

Concen: 21.428 ug/l

RT: 8.49 min Scan# 708

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

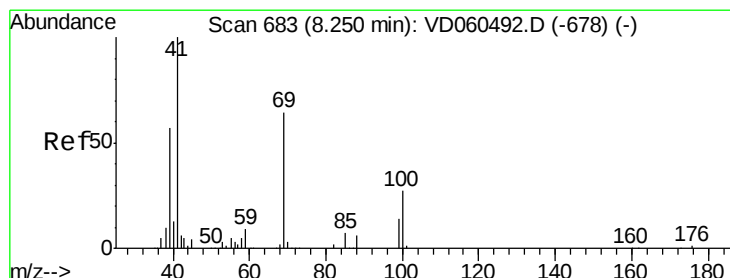
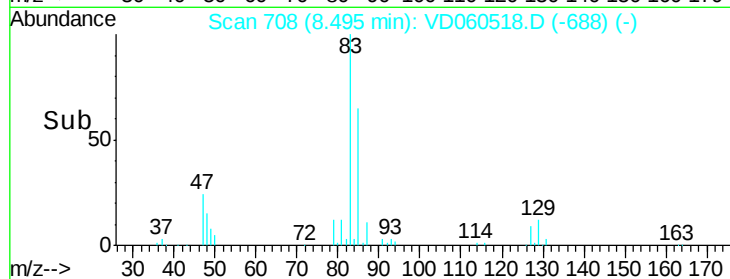
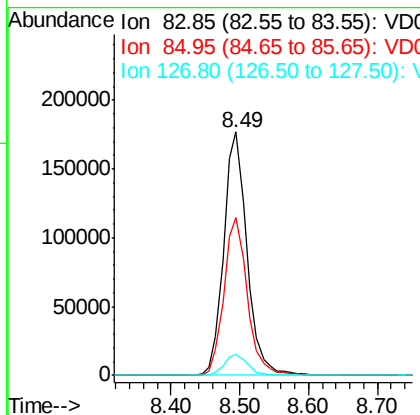
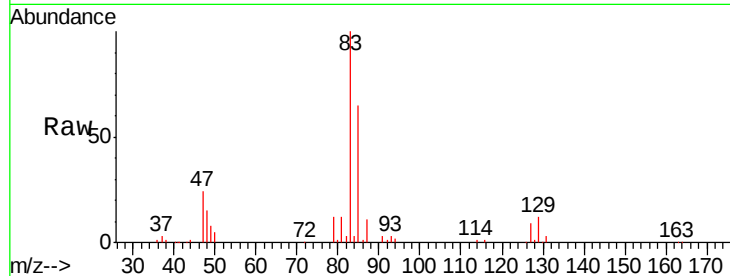
ClientSampleId :

VD1210SBS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 413420 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.8  | 52.2  | 78.4   |
| 127      | 8.8   | 6.7   | 10.1   |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



#48

Methyl methacrylate

Concen: 22.138 ug/l

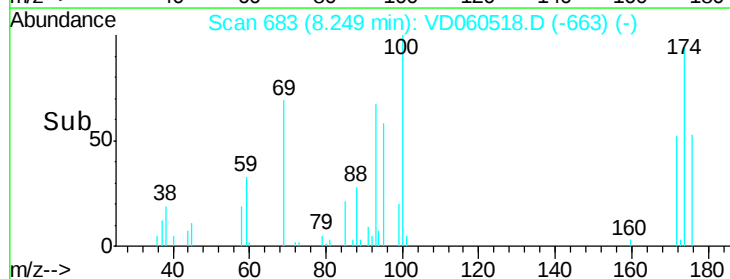
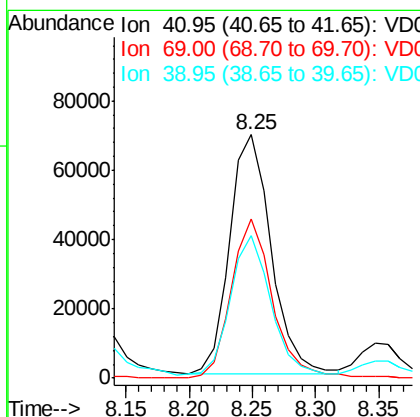
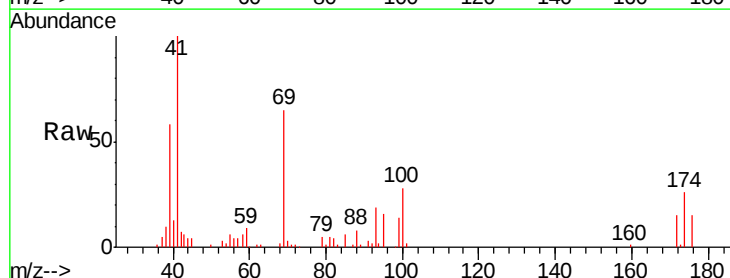
RT: 8.25 min Scan# 683

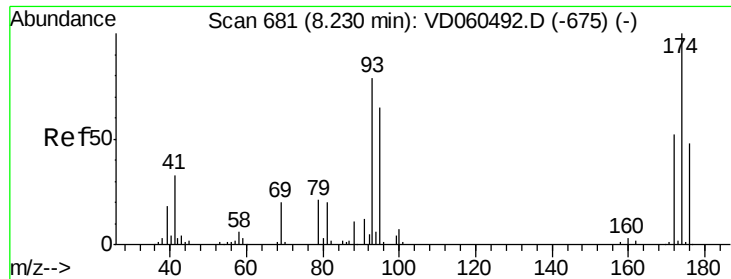
Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 156134 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 65.4  | 50.2  | 75.4   |
| 39       | 58.5  | 46.1  | 69.1   |





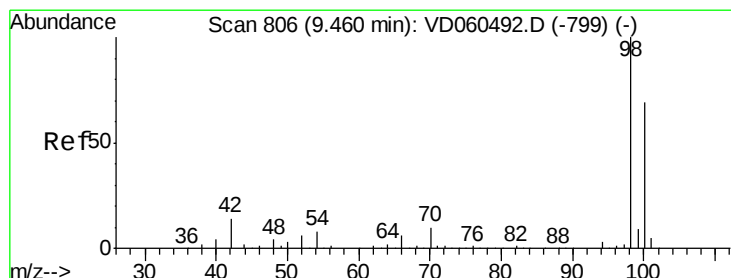
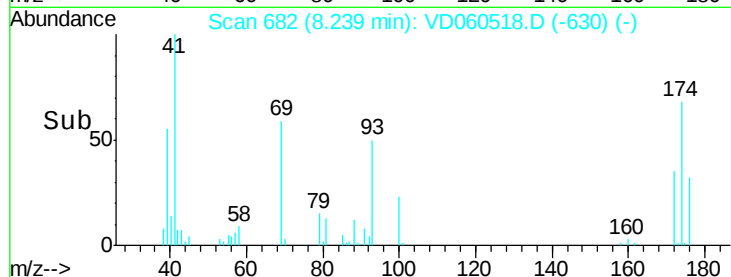
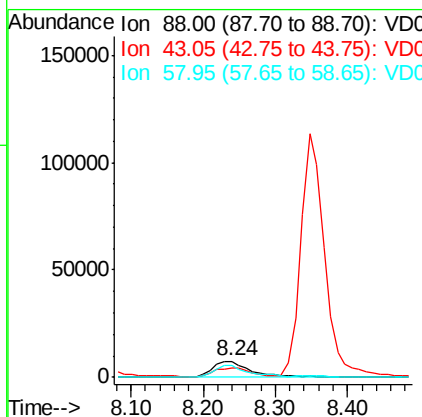
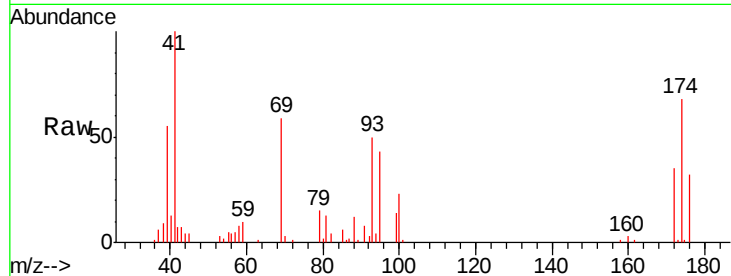
#49  
1,4-Dioxane  
Concen: 442.059 ug/l  
RT: 8.24 min Scan# 682  
Delta R.T. 0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 88 Resp: 28257  
Ion Ratio Lower Upper  
88 100  
43 54.1 32.9 49.3#  
58 69.8 47.7 71.5

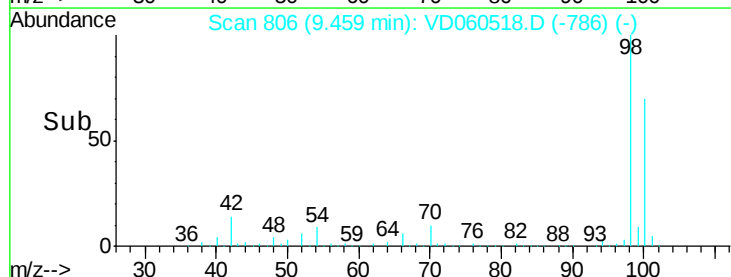
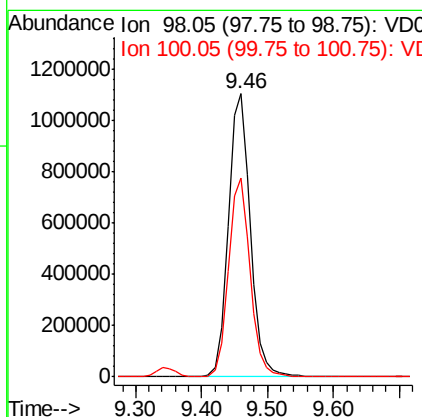
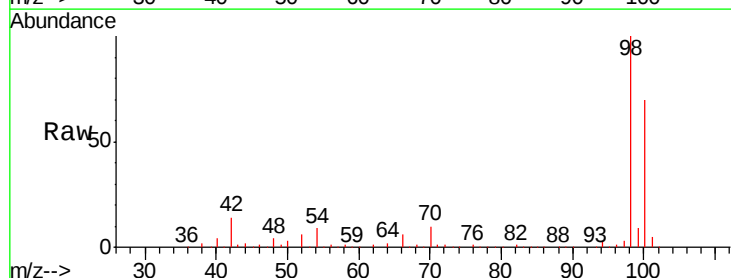
Manual Integrations  
APPROVED

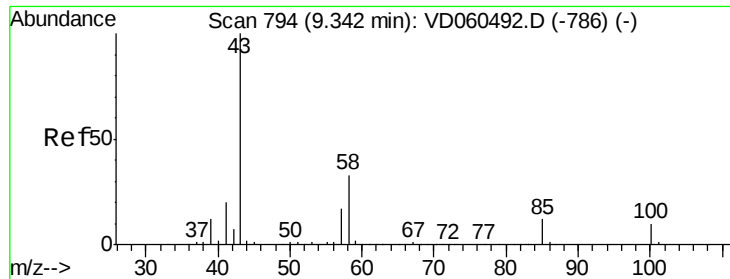
MMDadoda  
12/11/2018 4:15:11 PM



#50  
Toluene-d8  
Concen: 442.059 ug/l  
RT: 9.46 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 98 Resp: 2578281  
Ion Ratio Lower Upper  
98 100  
100 70.2 55.7 83.5





#51

4-Methyl-2-Pentanone

Concen: 112.785 ug/l

RT: 9.34 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 43 Resp: 836247

Ion Ratio Lower Upper

43 100

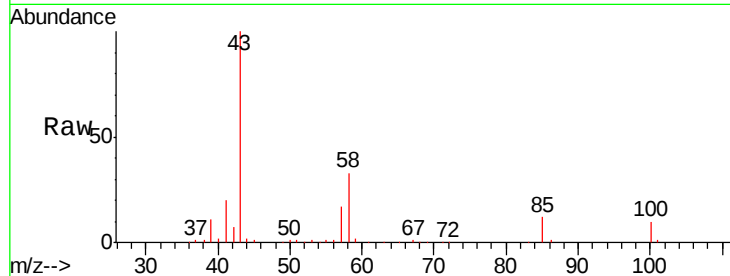
58 32.8 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.34

400000

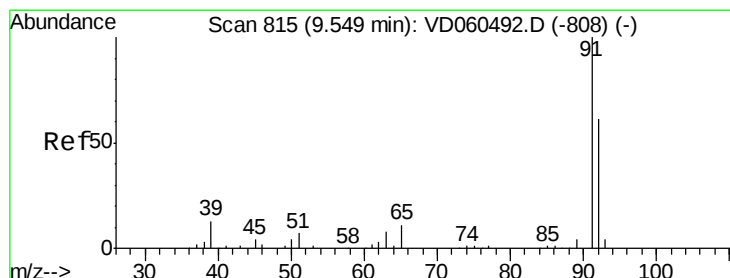
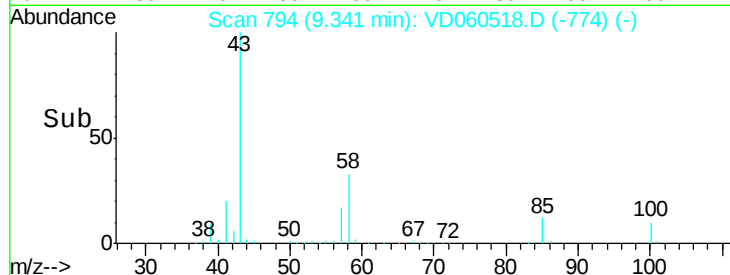
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 21.019 ug/l

RT: 9.55 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD060518.D

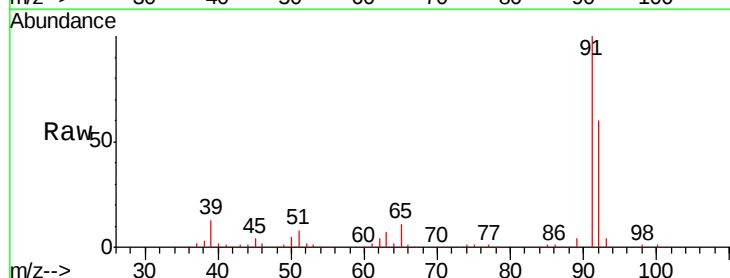
Acq: 10 Dec 2018 12:04

Tgt Ion: 92 Resp: 747535

Ion Ratio Lower Upper

92 100

91 166.5 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

9.55

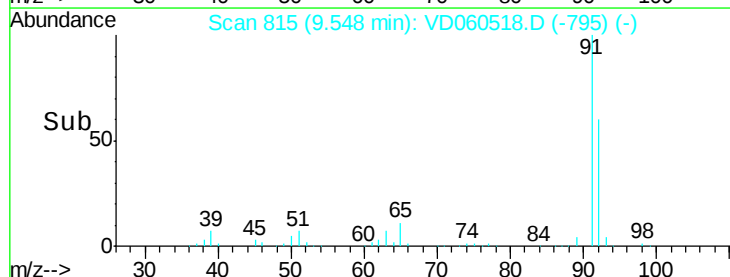
600000

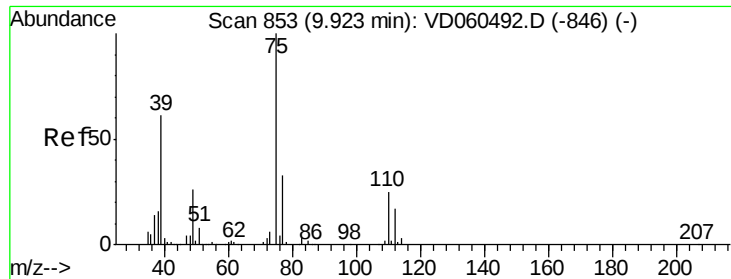
400000

200000

0

Time-->





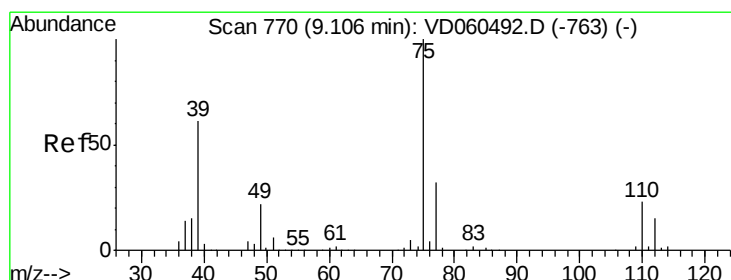
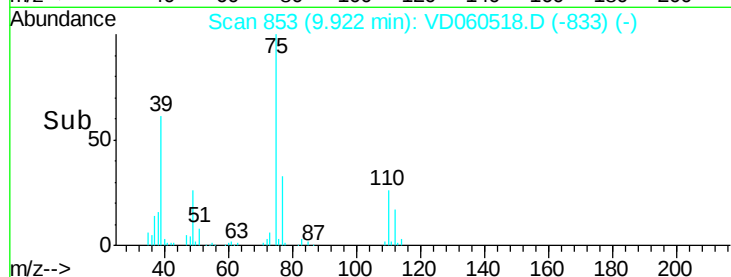
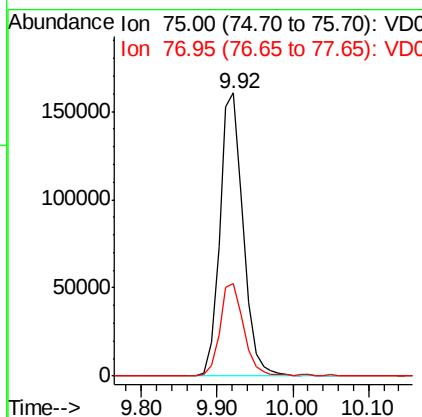
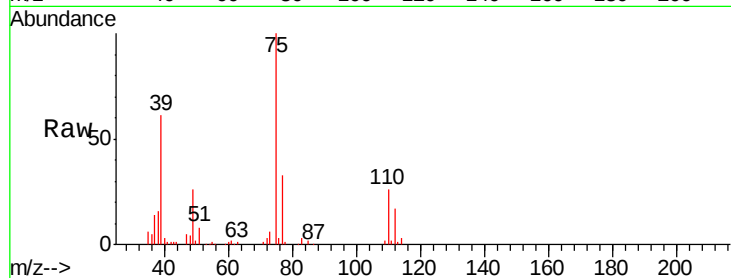
#53  
t-1,3-Dichloropropene  
Concen: 21.594 ug/l  
RT: 9.92 min Scan# 853  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 75 Resp: 342326  
Ion Ratio Lower Upper  
75 100  
77 32.7 26.2 39.2

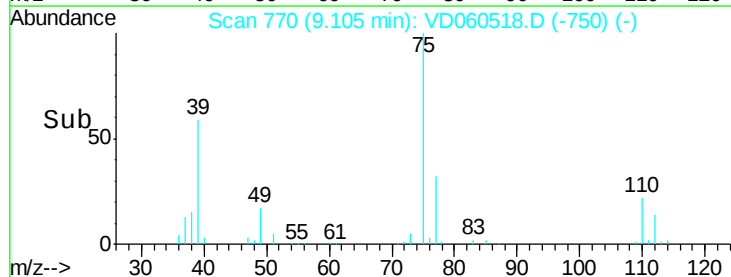
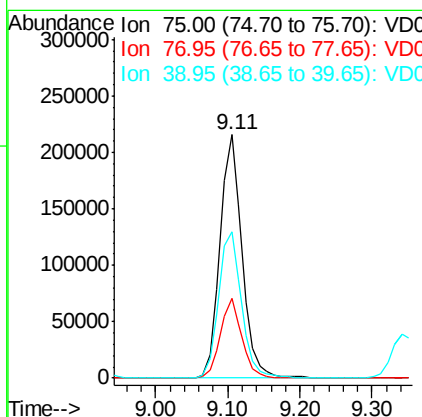
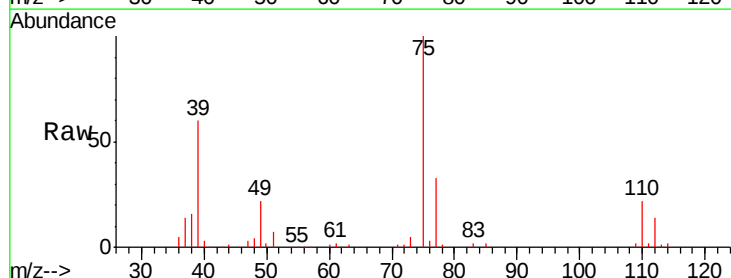
Manual Integrations  
APPROVED

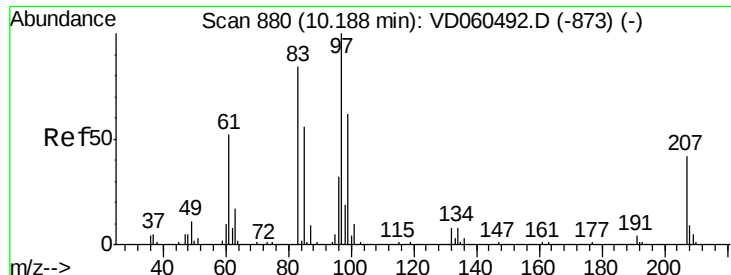
MMDadoda  
12/11/2018 4:15:11 PM



#54  
cis-1,3-Dichloropropene  
Concen: 21.791 ug/l  
RT: 9.11 min Scan# 770  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 75 Resp: 453871  
Ion Ratio Lower Upper  
75 100  
77 32.6 25.6 38.4  
39 60.3 48.6 73.0





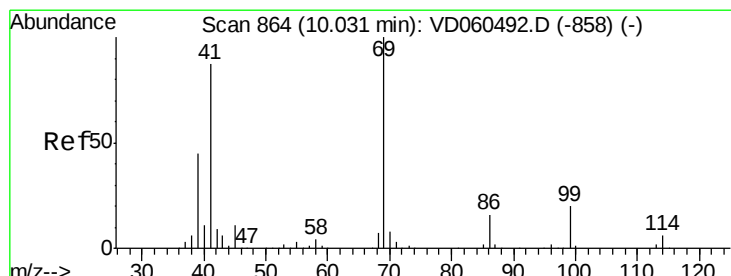
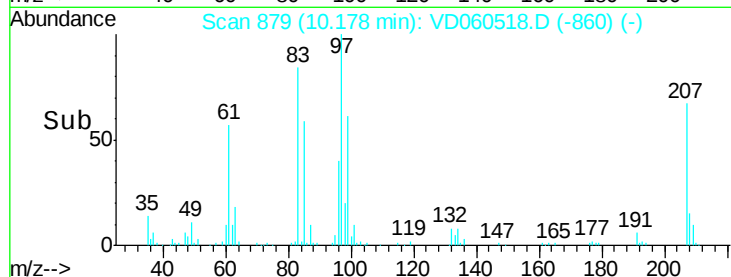
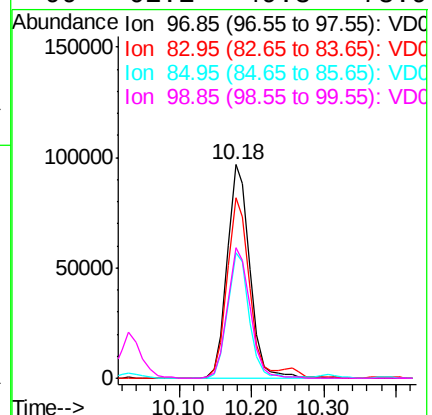
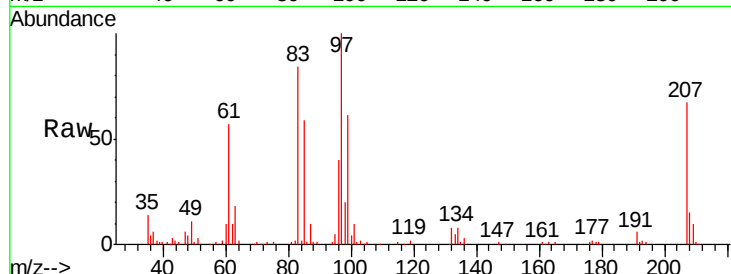
#55  
 1,1,2-Trichloroethane  
 Concen: 21.168 ug/l  
 RT: 10.18 min Scan# 879  
 Delta R.T. -0.01 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 97      | 100   | 209650 |       |       |
| 83      | 84.2  | 67.2   | 100.8 |       |
| 85      | 58.9  | 44.5   | 66.7  |       |
| 99      | 61.1  | 49.3   | 73.9  |       |

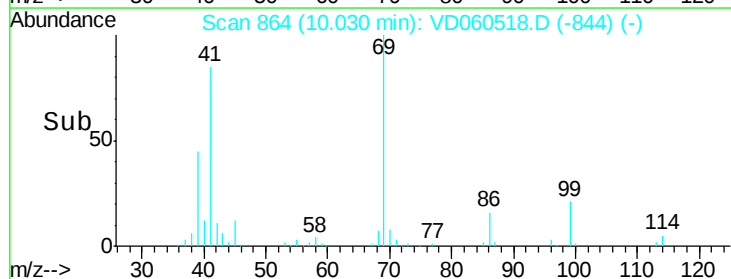
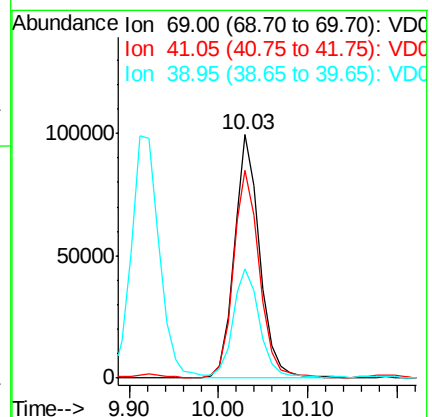
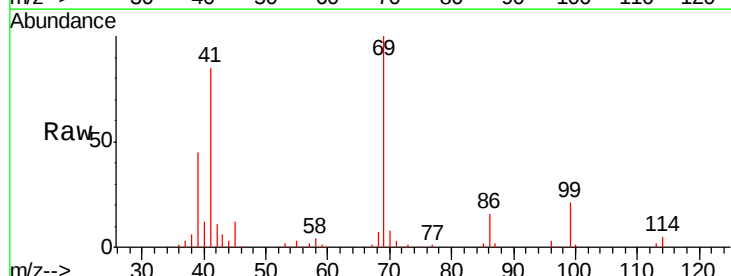
Manual Integrations  
 APPROVED

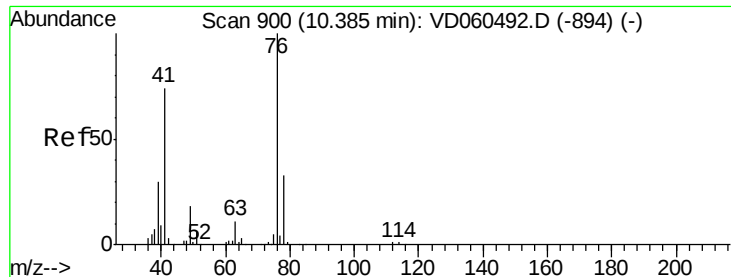
MMDadoda  
 12/11/2018 4:15:11 PM



#56  
 Ethyl methacrylate  
 Concen: 22.207 ug/l  
 RT: 10.03 min Scan# 864  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 69      | 100   | 199059 |       |       |
| 41      | 85.1  | 69.8   | 104.8 |       |
| 39      | 44.7  | 37.5   | 56.3  |       |





#57

1,3-Dichloropropane

Concen: 21.162 ug/l

RT: 10.38 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 76 Resp: 324012

Ion Ratio Lower Upper

76 100

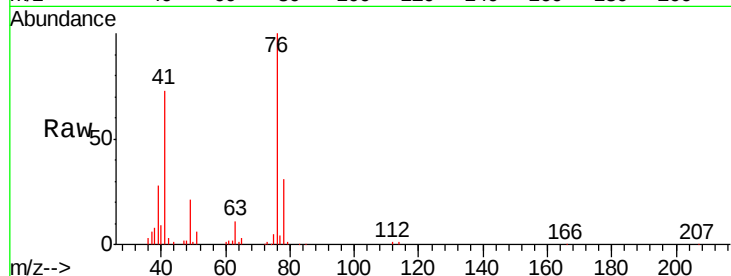
78 30.8 26.1 39.1

Manual Integrations

APPROVED

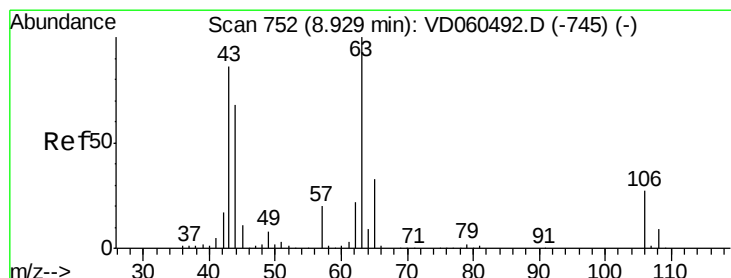
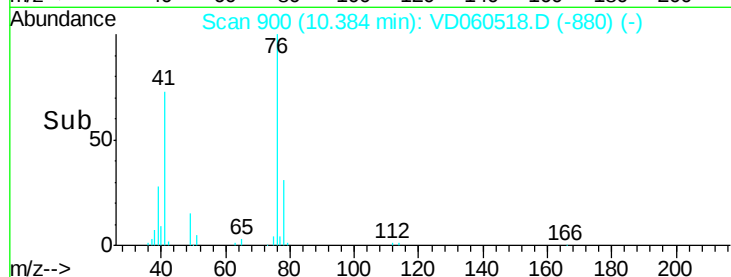
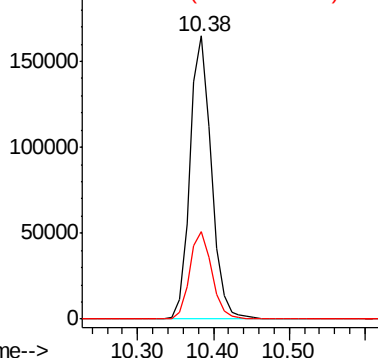
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 109.144 ug/l

RT: 8.92 min Scan# 751

Delta R.T. -0.01 min

Lab File: VD060518.D

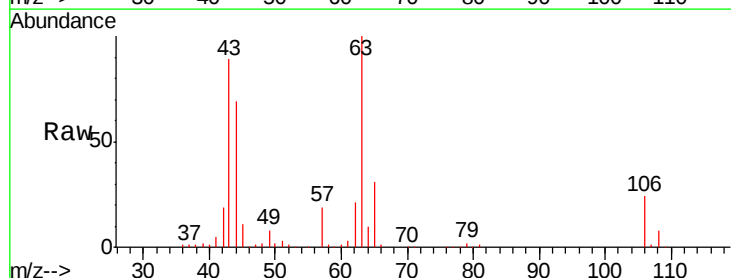
Acq: 10 Dec 2018 12:04

Tgt Ion: 63 Resp: 585375

Ion Ratio Lower Upper

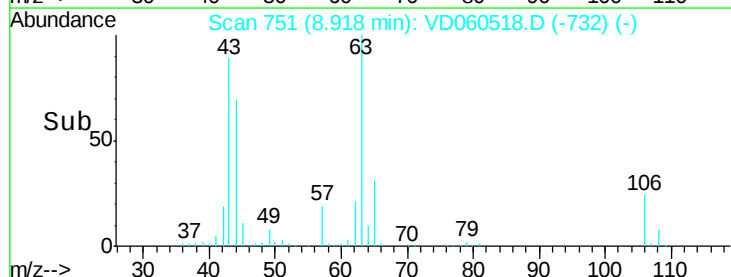
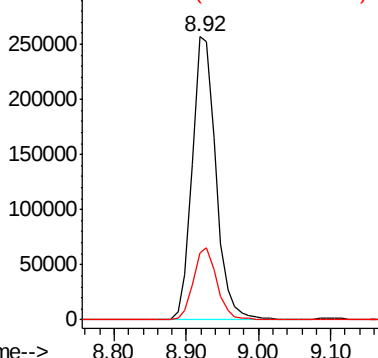
63 100

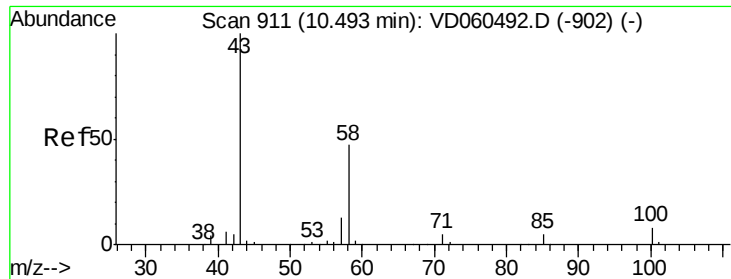
106 23.7 21.6 32.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





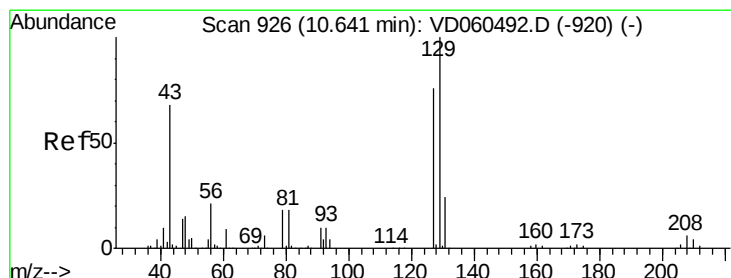
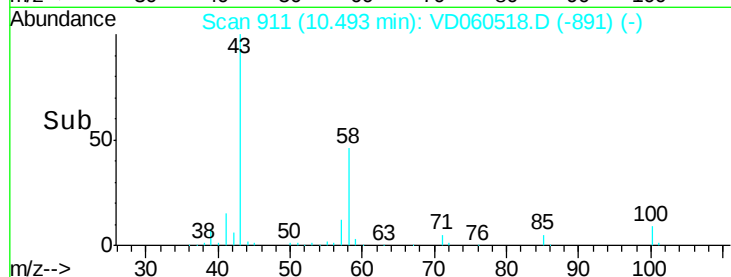
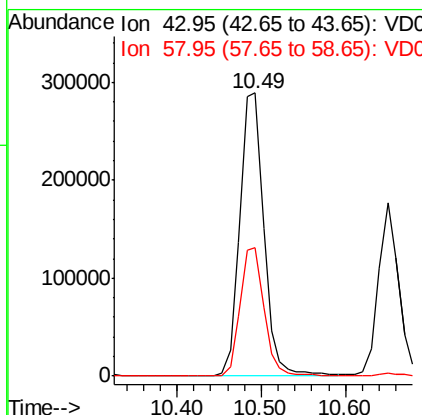
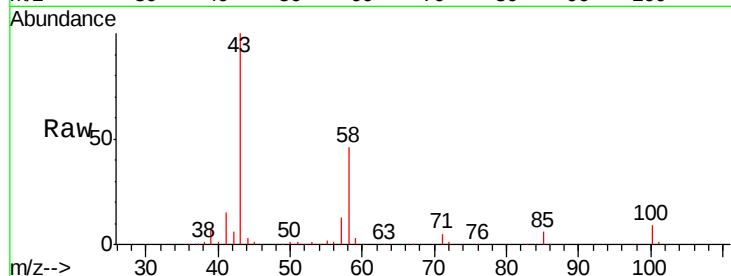
#59  
2-Hexanone  
Concen: 111.717 ug/l  
RT: 10.49 min Scan# 911  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 43 Resp: 578982  
Ion Ratio Lower Upper  
43 100  
58 45.6 23.4 70.2

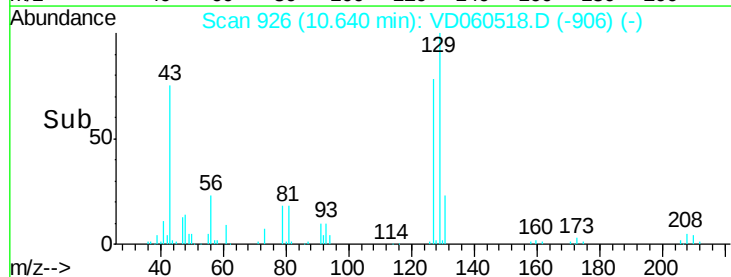
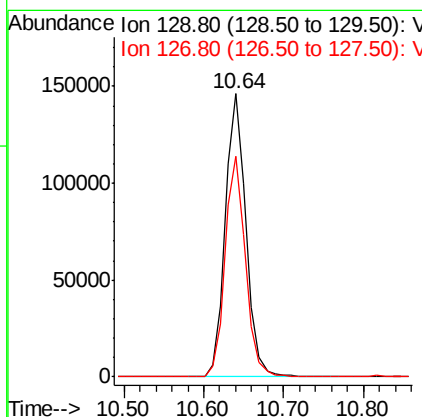
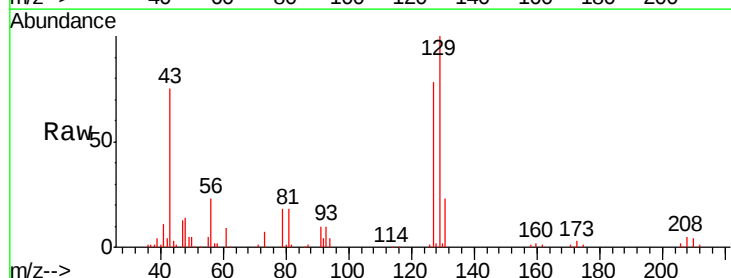
Manual Integrations  
APPROVED

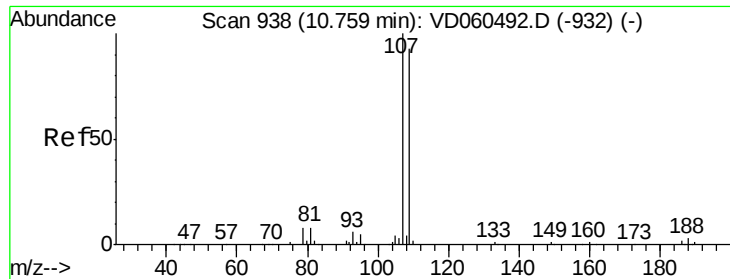
MMDadoda  
12/11/2018 4:15:11 PM



#60  
Dibromochloromethane  
Concen: 21.604 ug/l  
RT: 10.64 min Scan# 926  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 129 Resp: 267521  
Ion Ratio Lower Upper  
129 100  
127 78.0 38.1 114.3





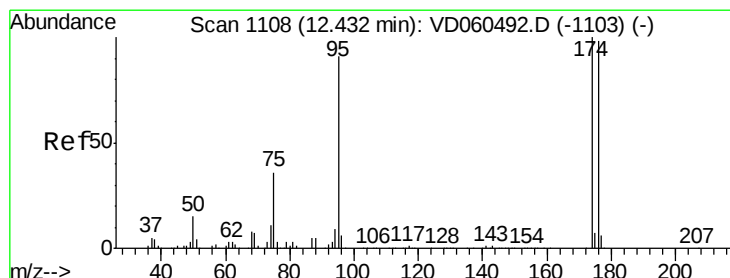
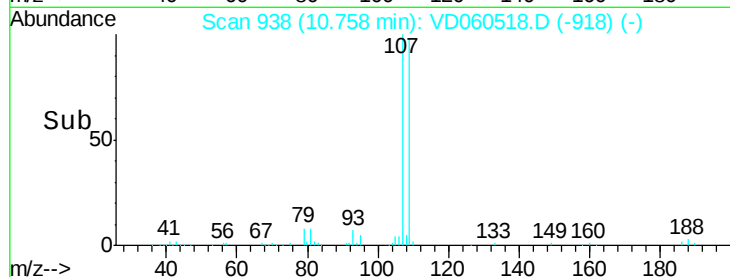
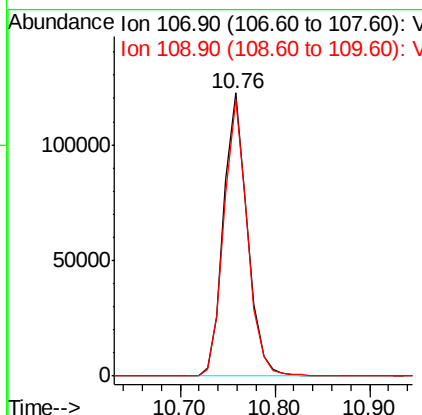
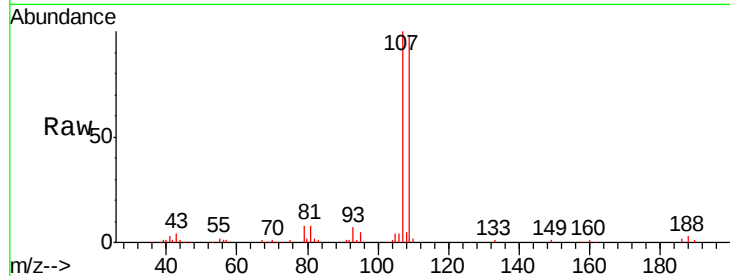
#61  
1,2-Dibromoethane  
Concen: 21.050 ug/l  
RT: 10.76 min Scan# 938  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBSD01

Tgt Ion: 107 Resp: 212465  
Ion Ratio Lower Upper  
107 100  
109 97.7 74.7 112.1

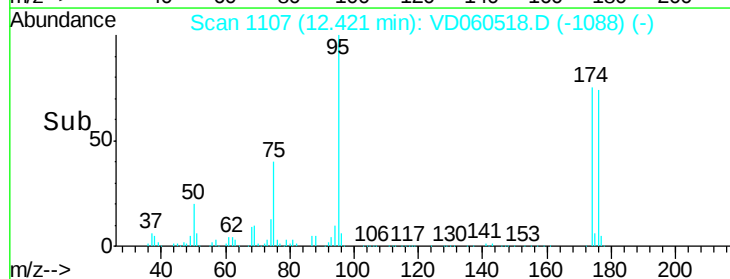
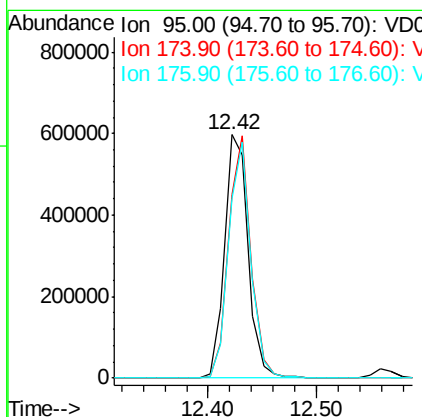
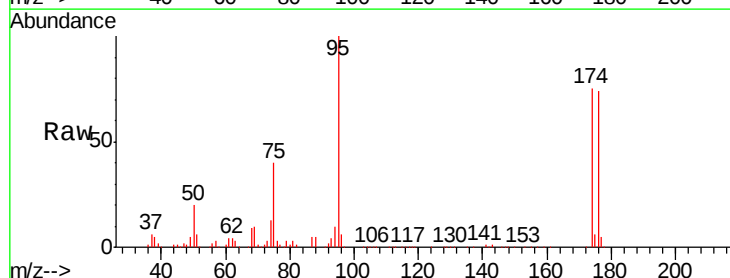
Manual Integrations  
APPROVED

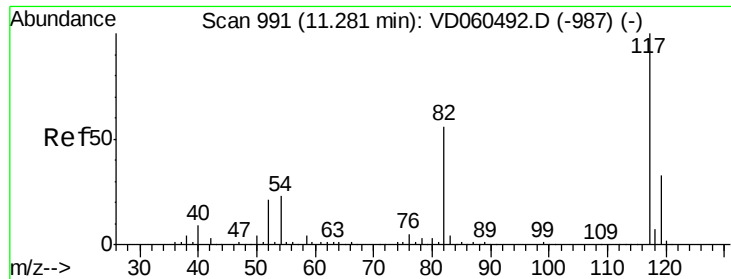
MMDadoda  
12/11/2018 4:15:11 PM



#62  
4-Bromofluorobenzene  
Concen: 21.050 ug/l  
RT: 12.42 min Scan# 1107  
Delta R.T. -0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 95 Resp: 902832  
Ion Ratio Lower Upper  
95 100  
174 75.5 0.0 219.4  
176 73.7 0.0 214.6





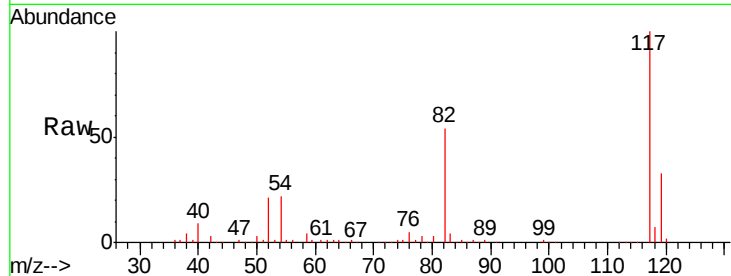
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.28 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

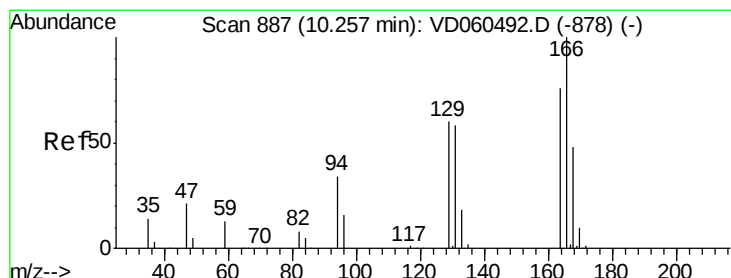
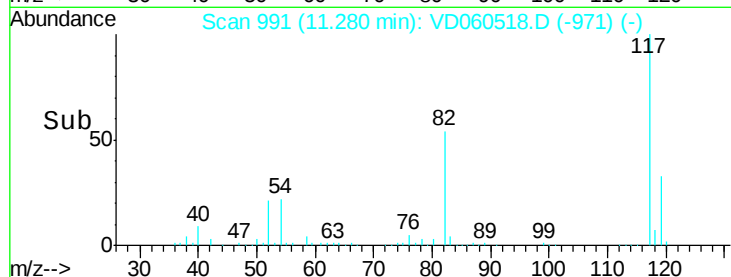
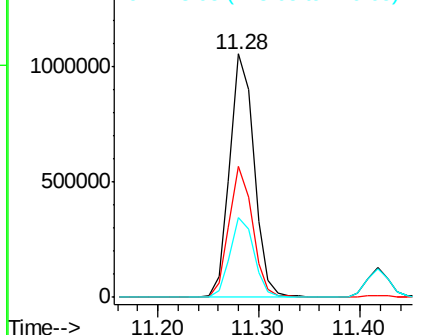
Tgt Ion:117 Resp: 1765961  
Ion Ratio Lower Upper  
117 100  
82 54.0 45.2 67.8  
119 32.6 26.1 39.1

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



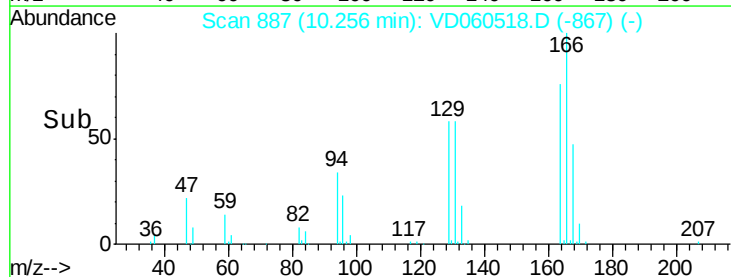
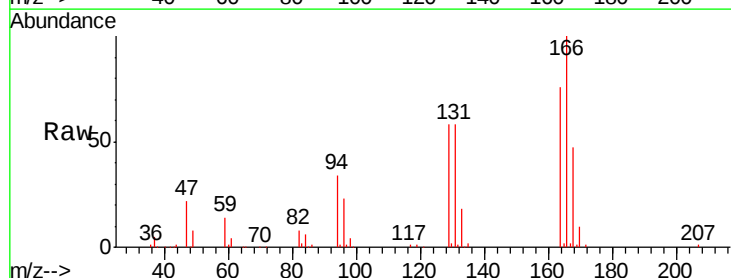
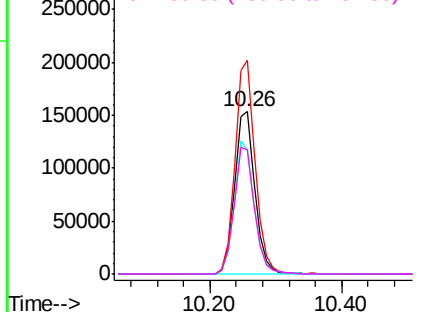
Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#64  
Tetrachloroethene  
Concen: 21.288 ug/l  
RT: 10.26 min Scan# 887  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion:164 Resp: 332884  
Ion Ratio Lower Upper  
164 100  
166 131.8 105.0 157.6  
129 76.7 63.0 94.4  
131 76.8 60.6 90.8

Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.85 (165.55 to 166.55): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.345 ug/l

RT: 11.31 min Scan# 994

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion:112 Resp: 797464

Ion Ratio Lower Upper

112 100

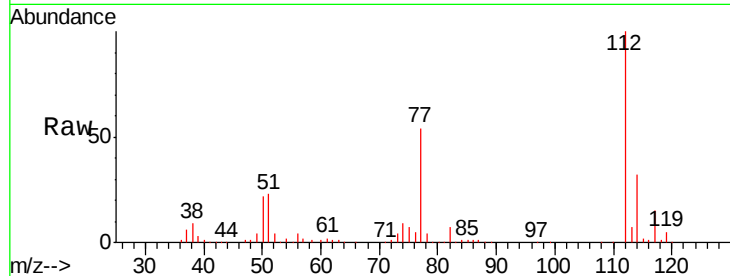
114 32.2 26.2 39.4

Manual Integrations

APPROVED

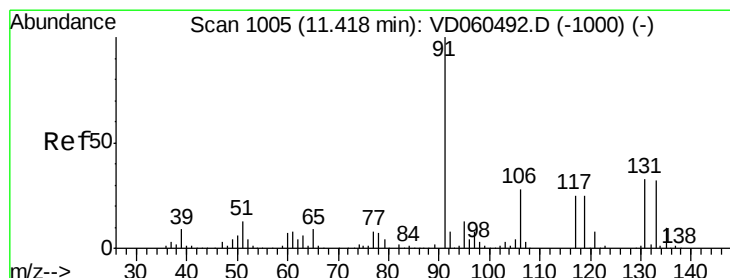
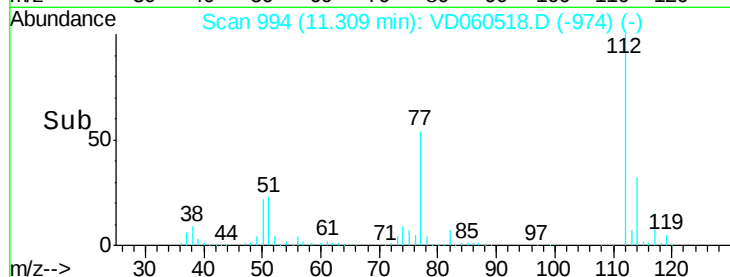
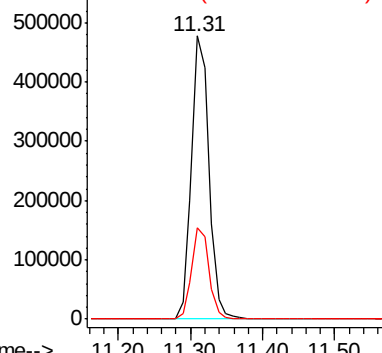
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.553 ug/l

RT: 11.42 min Scan# 1005

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

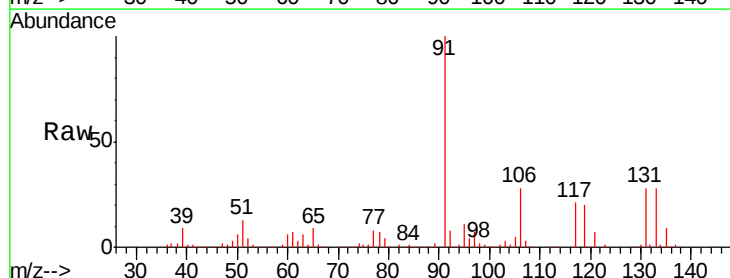
Tgt Ion:131 Resp: 271576

Ion Ratio Lower Upper

131 100

133 98.0 49.1 147.3

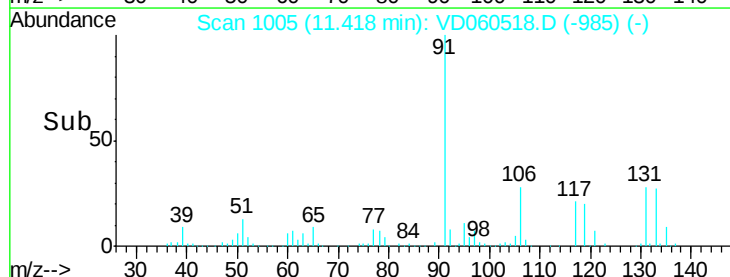
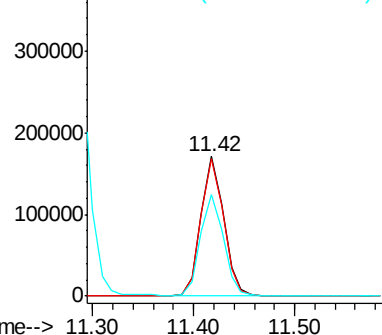
119 72.9 37.5 112.3



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V





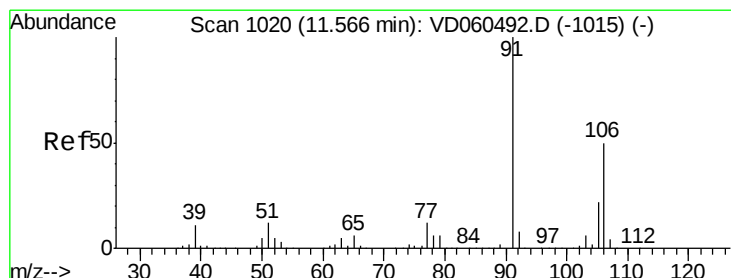
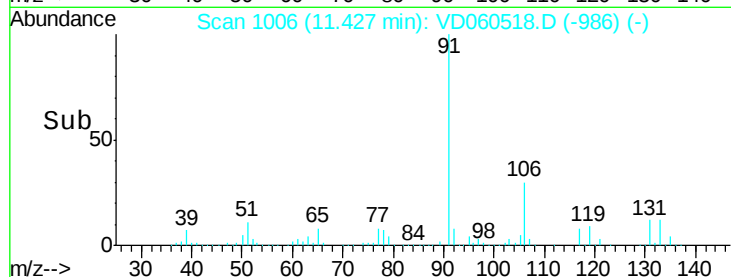
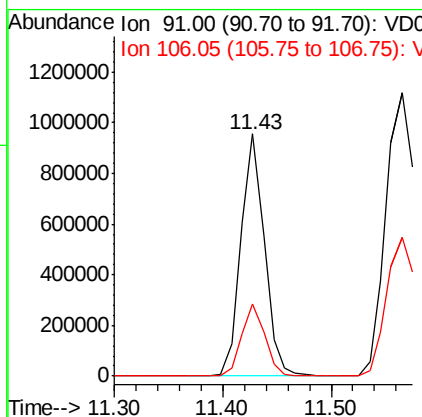
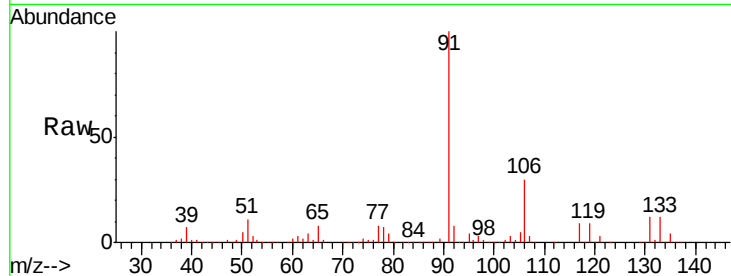
#67  
Ethyl Benzene  
Concen: 22.757 ug/l  
RT: 11.43 min Scan# 1006  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 91 Resp: 1450172  
Ion Ratio Lower Upper  
91 100  
106 29.7 24.6 37.0

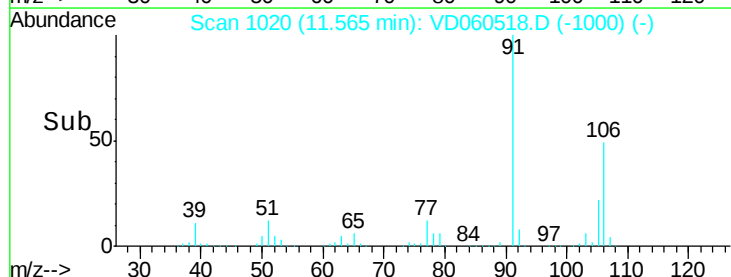
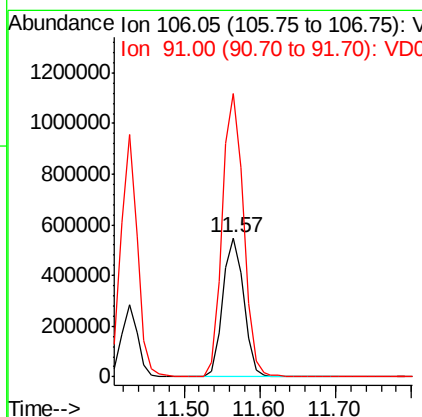
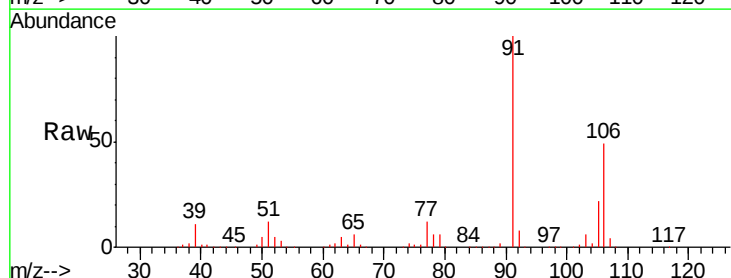
Manual Integrations  
APPROVED

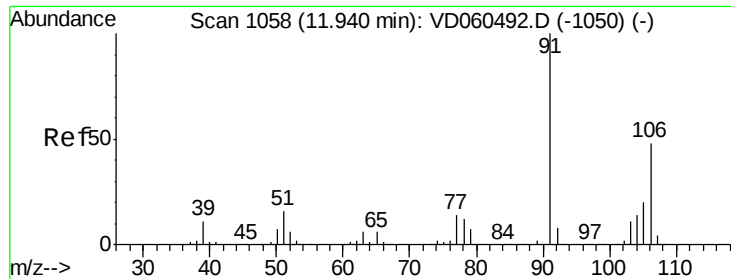
MMDadoda  
12/11/2018 4:15:11 PM



#68  
m/p-Xylenes  
Concen: 44.904 ug/l  
RT: 11.57 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 106 Resp: 1058640  
Ion Ratio Lower Upper  
106 100  
91 203.2 160.5 240.7





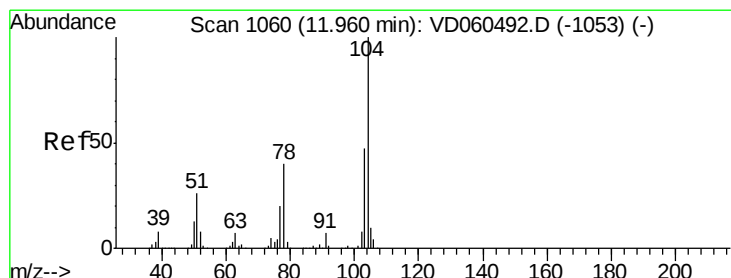
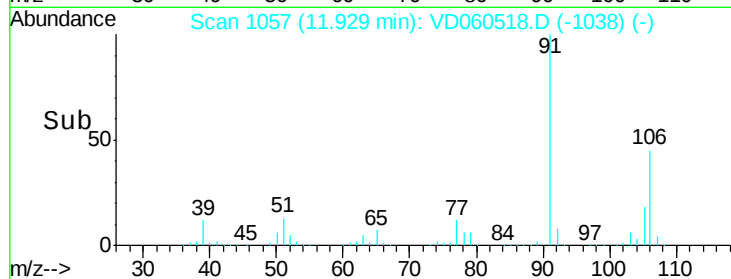
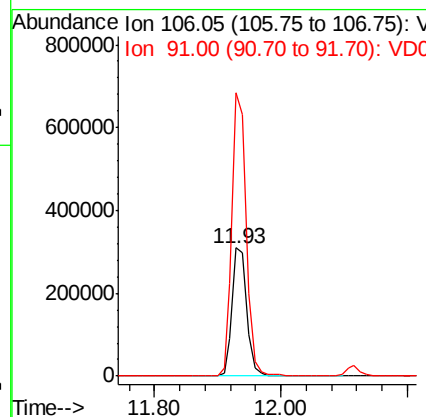
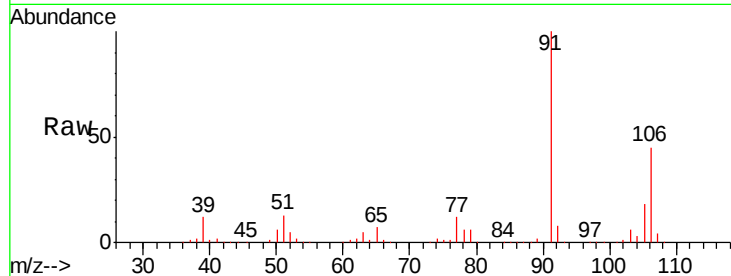
#69  
o-Xylene  
Concen: 22.231 ug/l  
RT: 11.93 min Scan# 1057  
Delta R.T. -0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion:106 Resp: 499470  
Ion Ratio Lower Upper  
106 100  
91 220.8 103.4 310.1

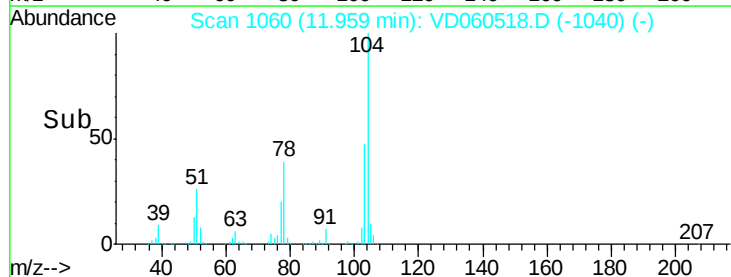
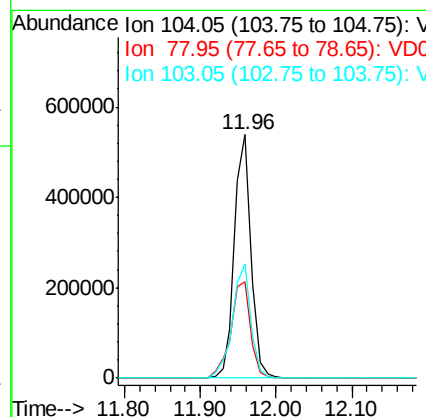
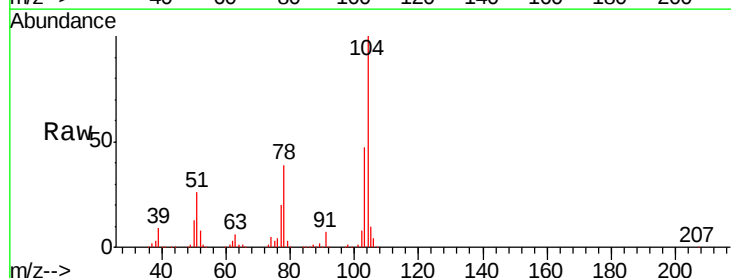
Manual Integrations  
APPROVED

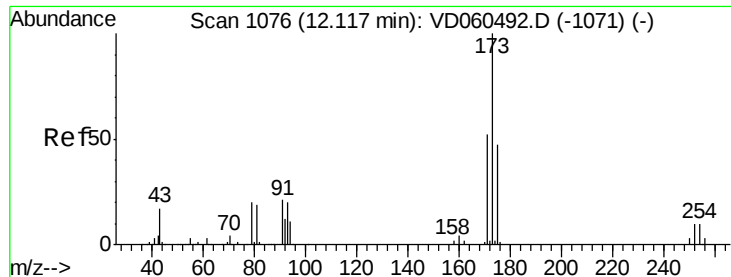
MMDadoda  
12/11/2018 4:15:11 PM



#70  
Styrene  
Concen: 22.464 ug/l  
RT: 11.96 min Scan# 1060  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion:104 Resp: 810134  
Ion Ratio Lower Upper  
104 100  
78 39.4 32.1 48.1  
103 47.2 37.2 55.8





#71

Bromoform

Concen: 21.652 ug/l

RT: 12.12 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion:173 Resp: 173949

Ion Ratio Lower Upper

173 100

175 47.1 23.5 70.6

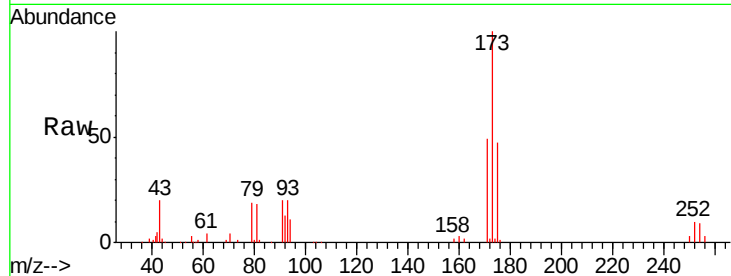
254 9.0 7.8 11.8

Manual Integrations

APPROVED

MMDadoda

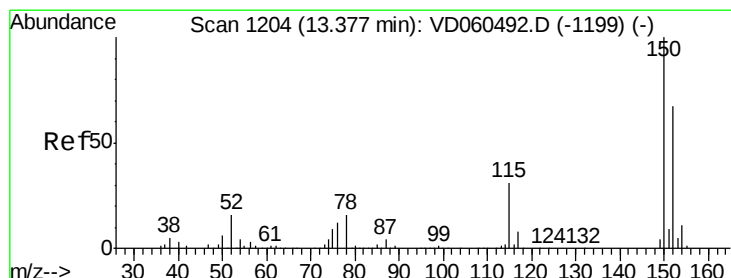
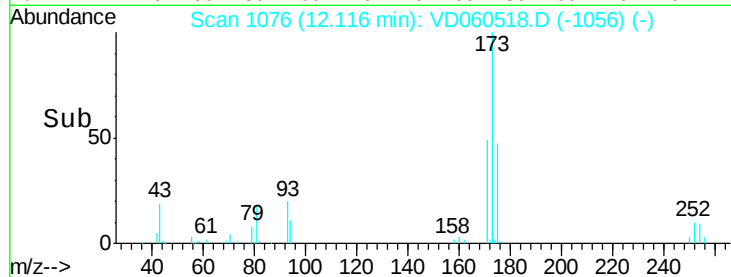
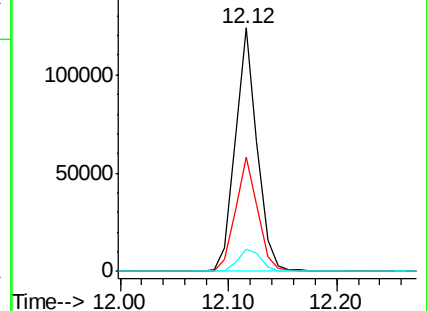
12/11/2018 4:15:11 PM



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: 50.000 ug/l

RT: 13.38 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

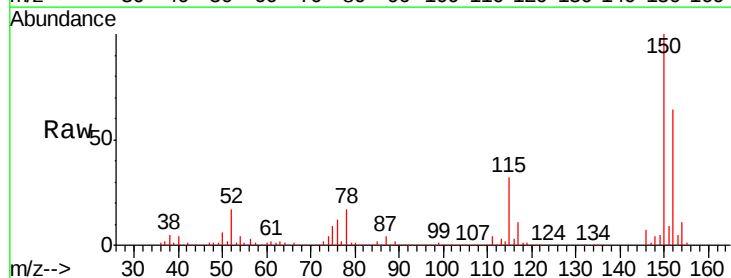
Tgt Ion:152 Resp: 895545

Ion Ratio Lower Upper

152 100

115 50.7 24.6 74.0

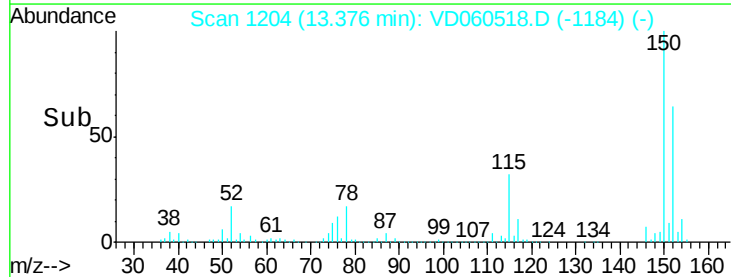
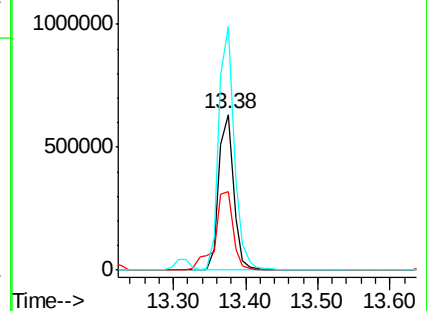
150 156.3 0.0 309.0

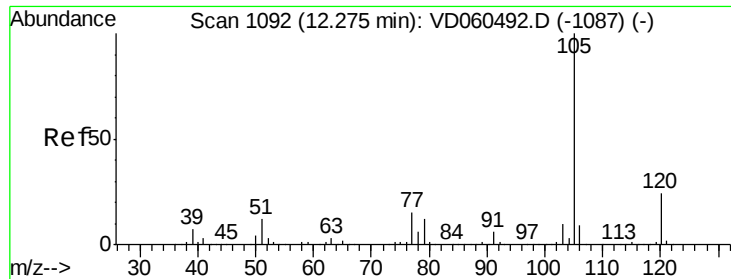


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.994 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 105 Resp: 1393819

Ion Ratio Lower Upper

105 100

120 23.4

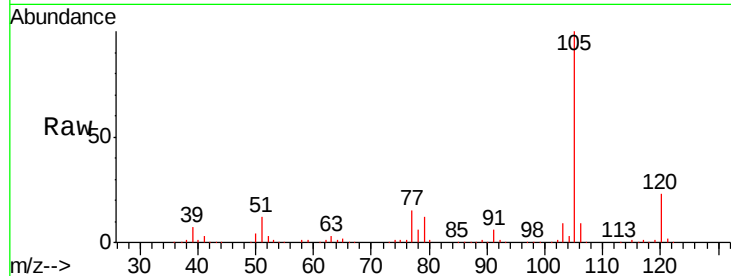
11.9 35.9

Manual Integrations

APPROVED

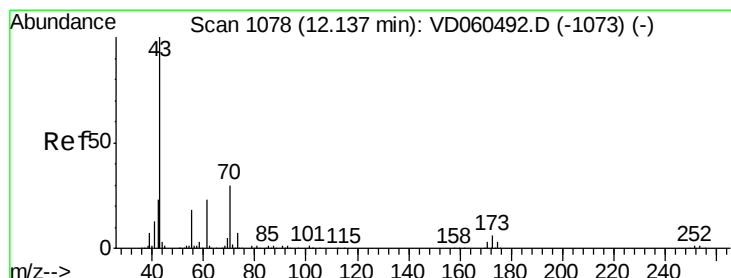
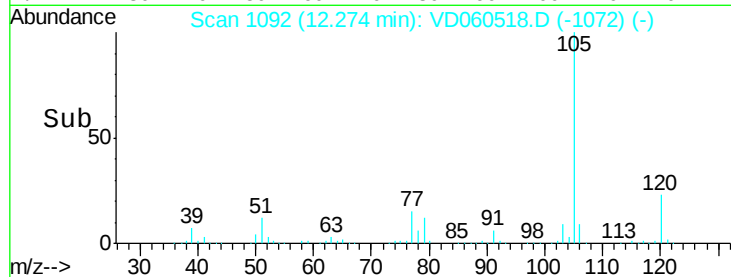
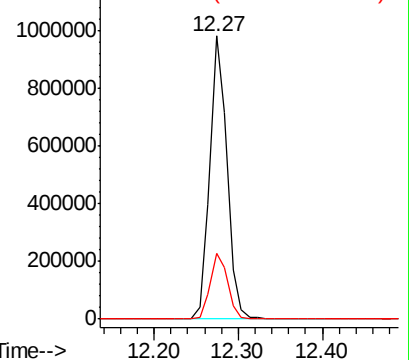
MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 22.318 ug/l

RT: 12.14 min Scan# 1078

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Tgt Ion: 43 Resp: 341814

Ion Ratio Lower Upper

43 100

70 29.6

55 18.0

61 23.6

23.8 35.8

14.2 21.2

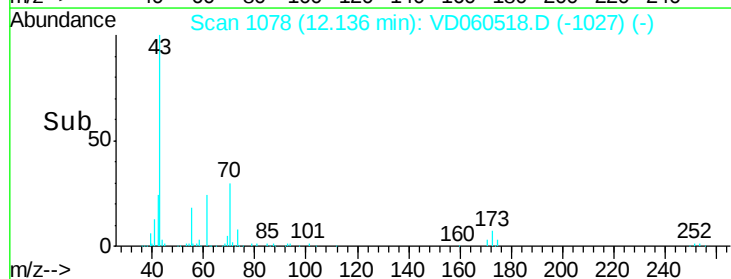
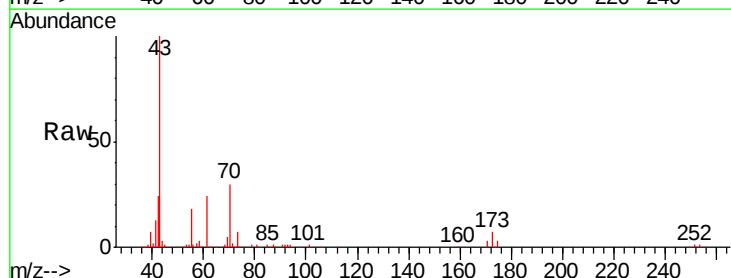
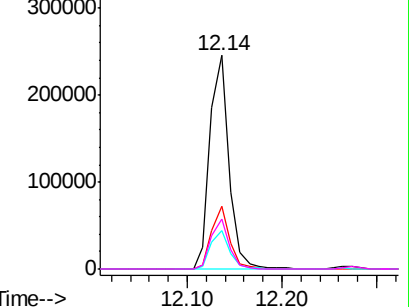
18.1 27.1

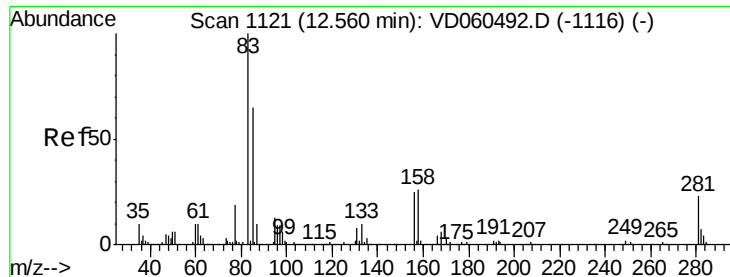
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.409 ug/l

RT: 12.56 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 83 Resp: 217202

Ion Ratio Lower Upper

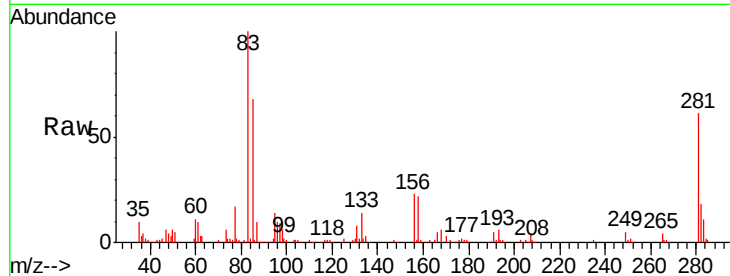
83 100

131 8.1 3.8 11.4

85 68.0 32.3 96.9

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

200000

150000

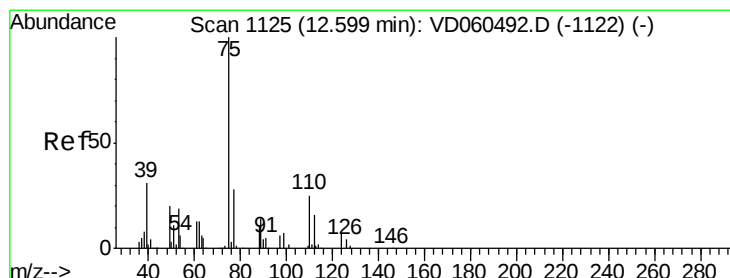
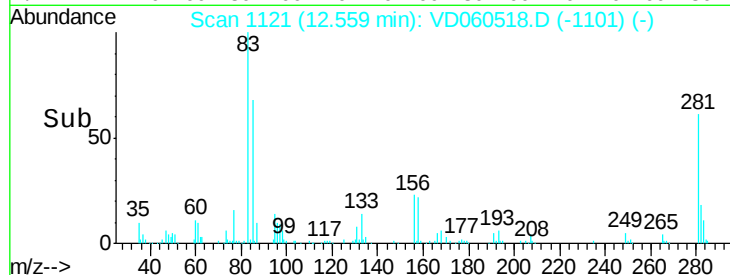
100000

50000

0

12.56

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.698 ug/l

RT: 12.60 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VD060518.D

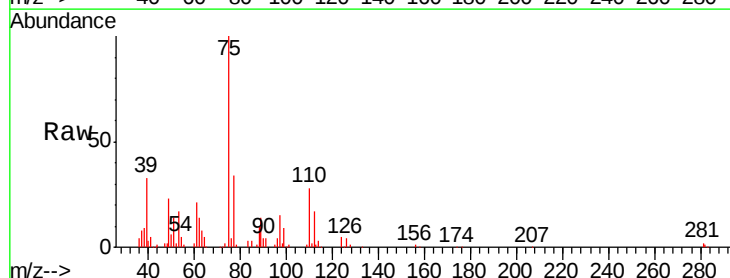
Acq: 10 Dec 2018 12:04

Tgt Ion: 75 Resp: 220172

Ion Ratio Lower Upper

75 100

77 34.4 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

300000

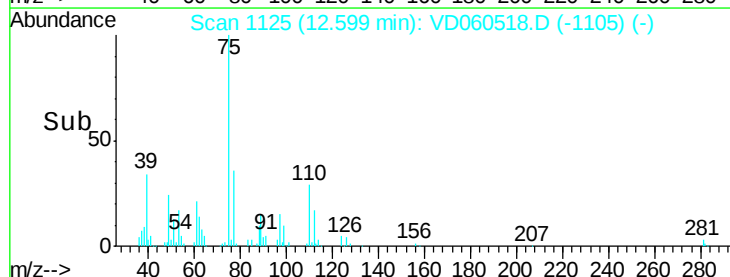
200000

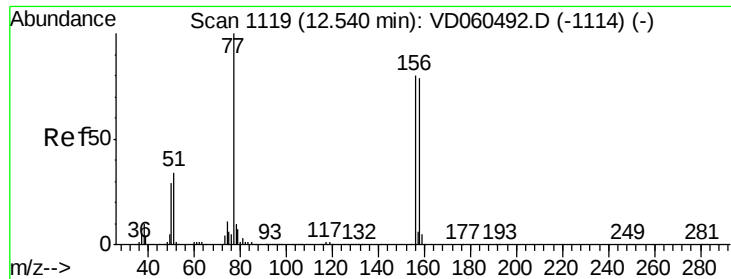
100000

0

12.60

Time-->





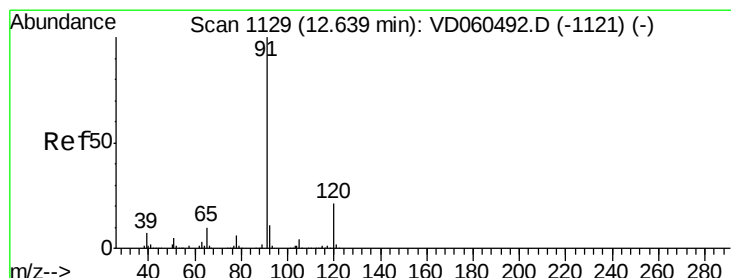
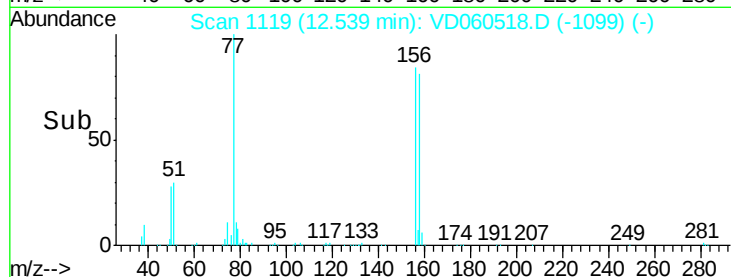
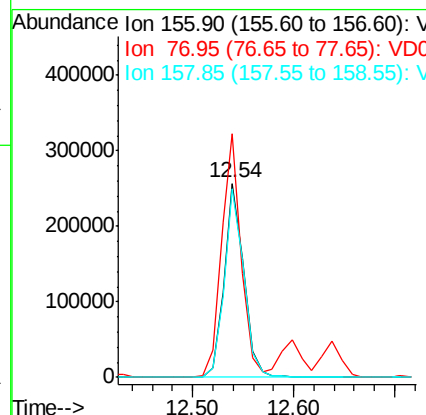
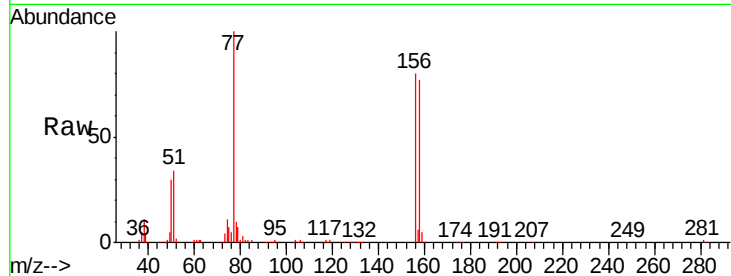
#77  
Bromobenzene  
Concen: 20.868 ug/l  
RT: 12.54 min Scan# 1119  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 125.6 | 62.5  | 187.6 |
| 158     | 97.0  | 49.4  | 148.2 |

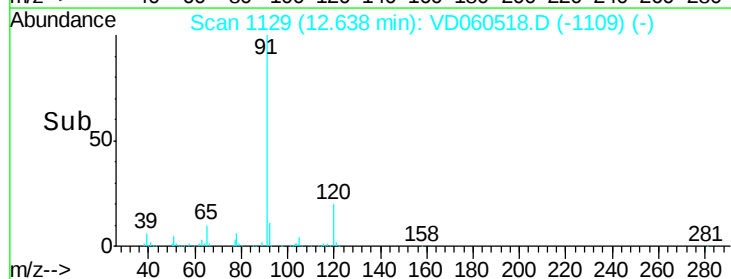
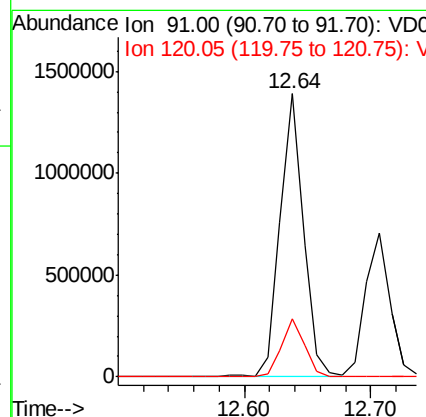
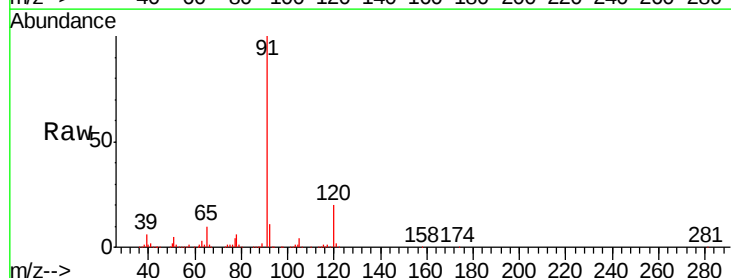
Manual Integrations  
APPROVED

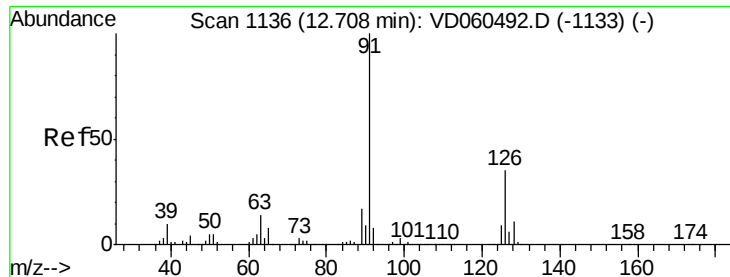
MMDadoda  
12/11/2018 4:15:11 PM



#78  
n-propylbenzene  
Concen: 22.428 ug/l  
RT: 12.64 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 20.4  | 10.4  | 31.1  |





#79

2-Chlorotoluene

Concen: 22.085 ug/l

RT: 12.71 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

ClientSampleId :

VD1210SBS01

Tgt Ion: 91 Resp: 960027

Ion Ratio Lower Upper

91 100

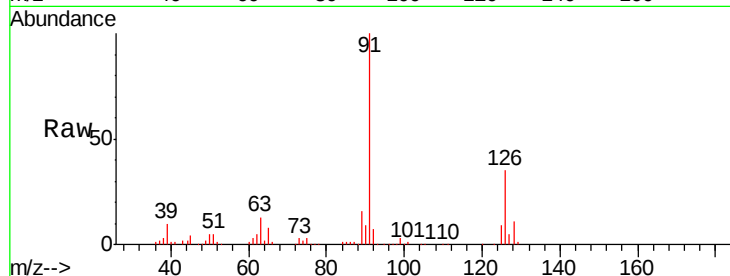
126 34.5 17.3 52.0

Manual Integrations

APPROVED

MMDadoda

12/11/2018 4:15:11 PM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

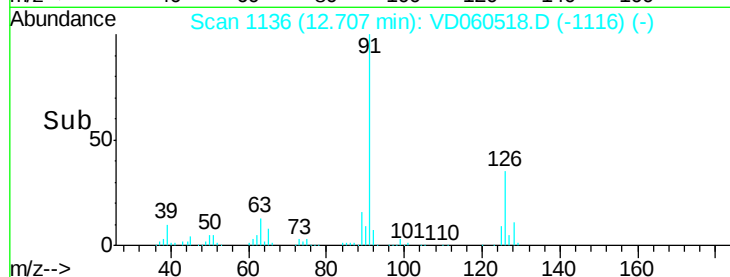
1500000

1000000

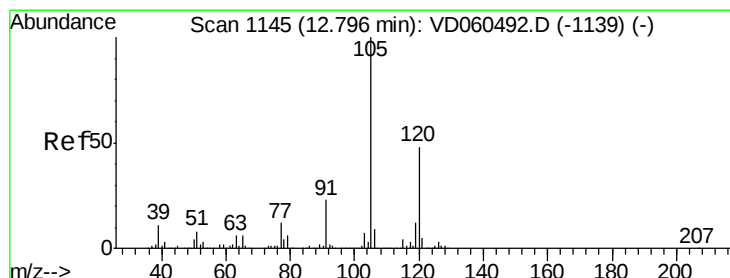
500000

0

12.65 12.70 12.75



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 22.553 ug/l

RT: 12.80 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VD060518.D

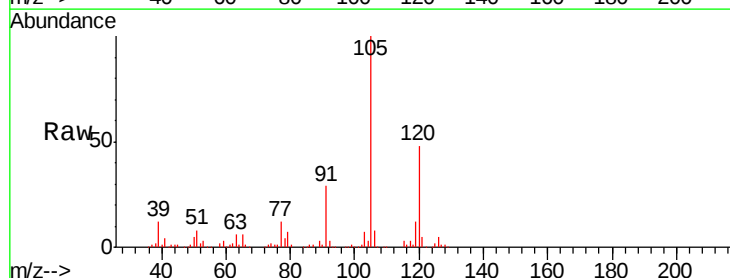
Acq: 10 Dec 2018 12:04

Tgt Ion: 105 Resp: 1092106

Ion Ratio Lower Upper

105 100

120 48.0 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

1000000

800000

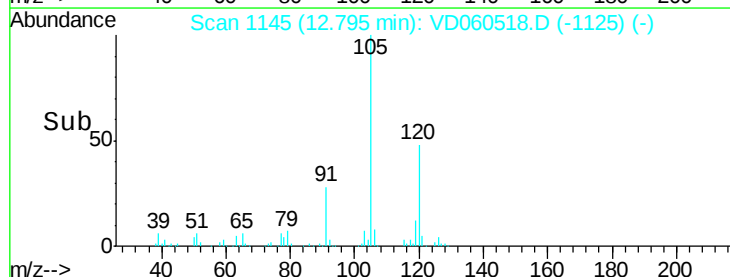
600000

400000

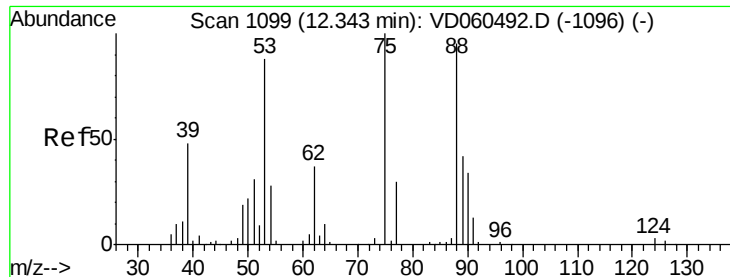
200000

0

12.70 12.80 12.90



Time-->



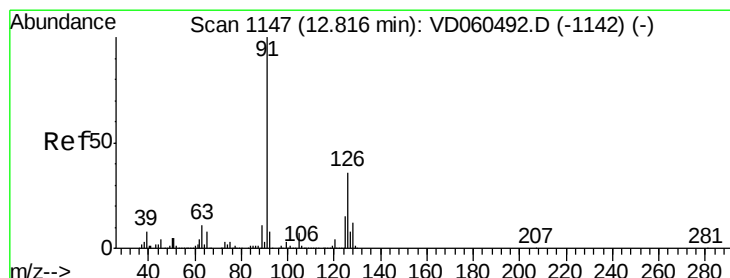
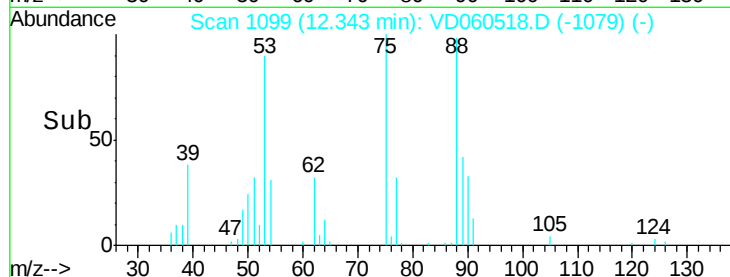
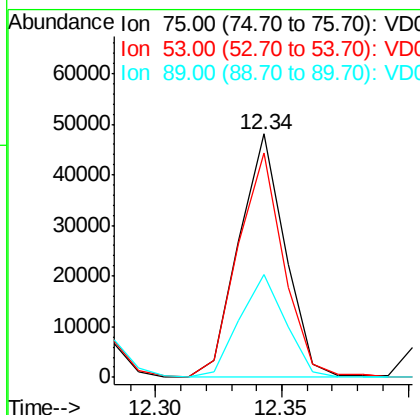
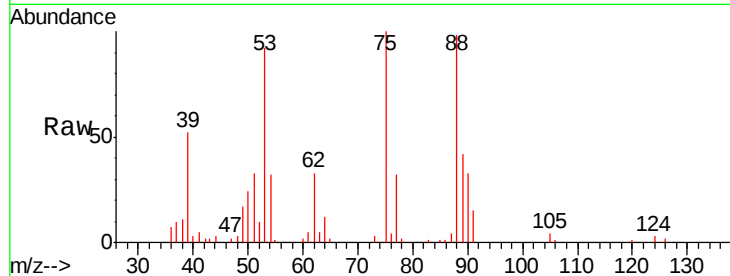
#81  
trans-1,4-Dichloro-2-butene  
Concen: 21.578 ug/l  
RT: 12.34 min Scan# 1099  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBSD01

Tgt Ion: 75 Resp: 61068  
Ion Ratio Lower Upper  
75 100  
53 92.1 70.5 105.7  
89 42.5 33.6 50.4

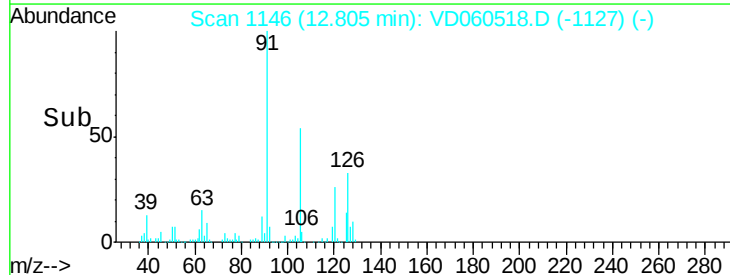
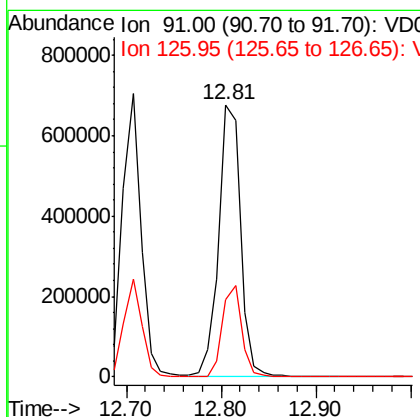
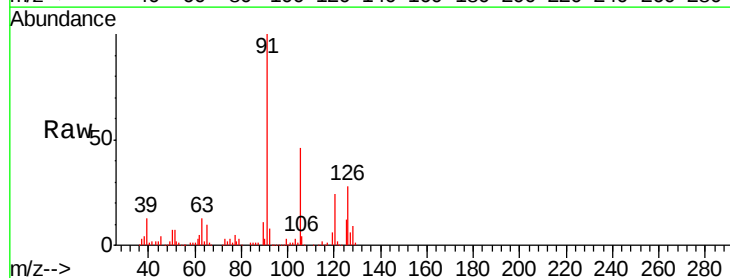
Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



#82  
4-Chlorotoluene  
Concen: 22.227 ug/l  
RT: 12.81 min Scan# 1146  
Delta R.T. -0.01 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 91 Resp: 1085179  
Ion Ratio Lower Upper  
91 100  
126 28.5 17.8 53.4





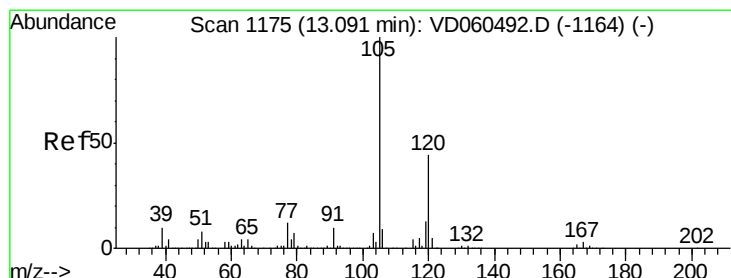
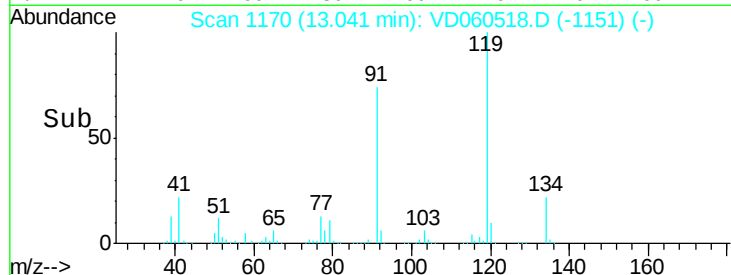
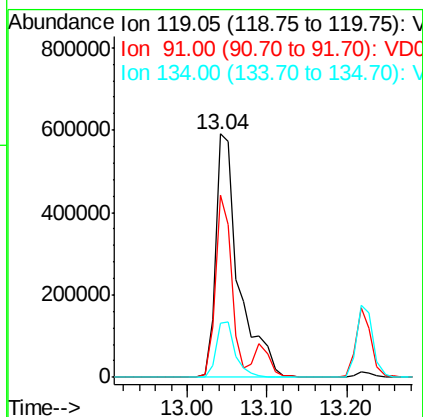
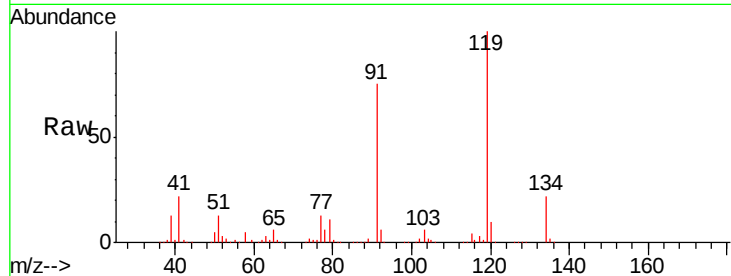
#83  
 tert-Butylbenzene  
 Concen: 22.183 ug/l  
 RT: 13.04 min Scan# 1170  
 Delta R.T. -0.01 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

Tgt Ion:119 Resp: 1204402  
 Ion Ratio Lower Upper  
 119 100  
 91 74.7 33.1 99.2  
 134 22.0 12.0 36.0

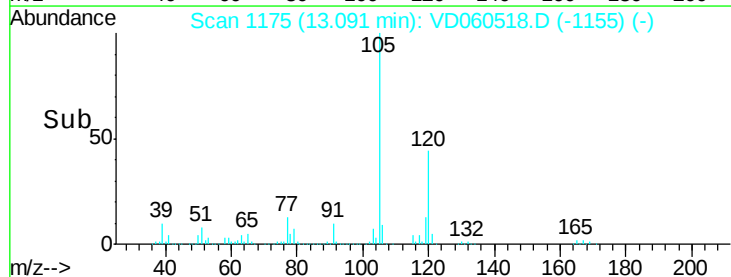
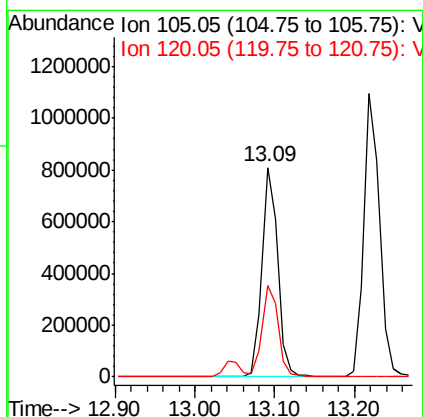
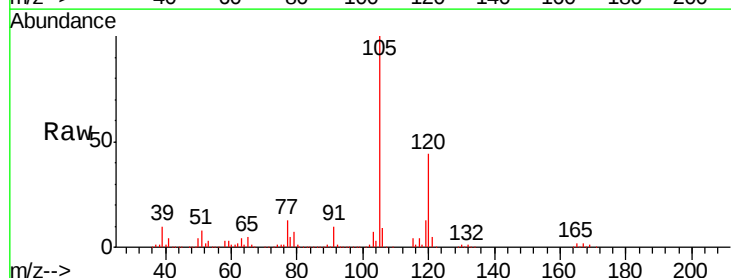
Manual Integrations  
 APPROVED

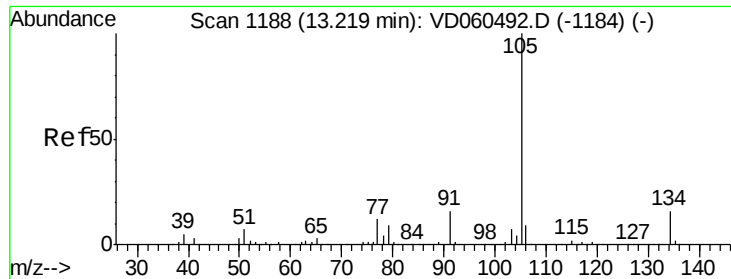
MMDadoda  
 12/11/2018 4:15:11 PM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 21.777 ug/l  
 RT: 13.09 min Scan# 1175  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Tgt Ion:105 Resp: 1091910  
 Ion Ratio Lower Upper  
 105 100  
 120 43.5 22.3 66.8





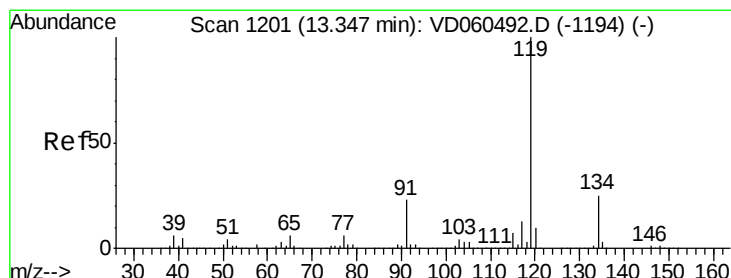
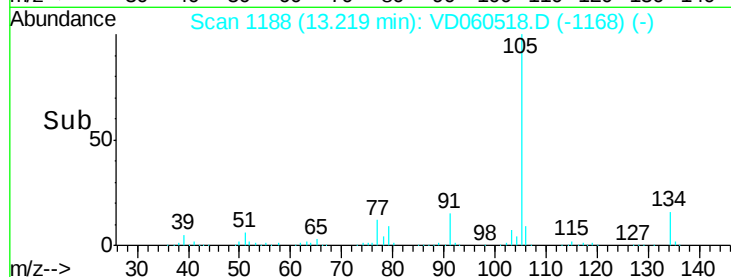
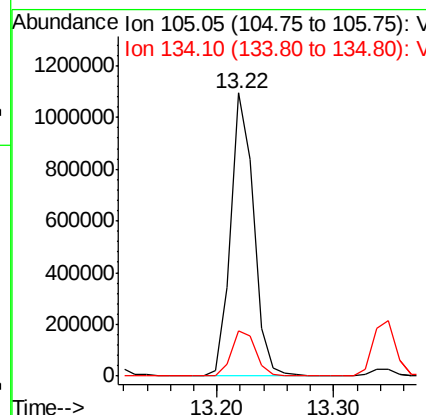
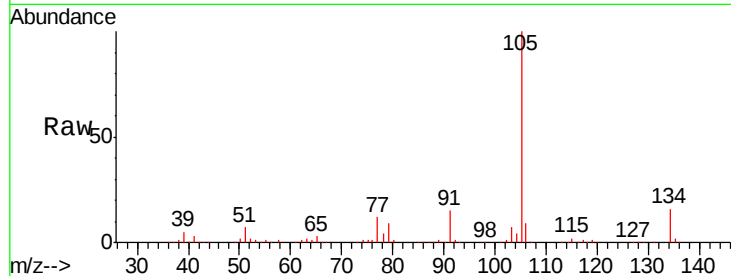
#85  
 sec-Butylbenzene  
 Concen: 22.054 ug/l  
 RT: 13.22 min Scan# 1188  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

Tgt Ion:105 Resp: 1492396  
 Ion Ratio Lower Upper  
 105 100  
 134 15.9 7.9 23.7

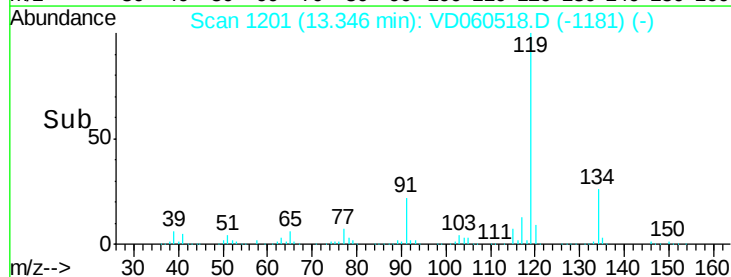
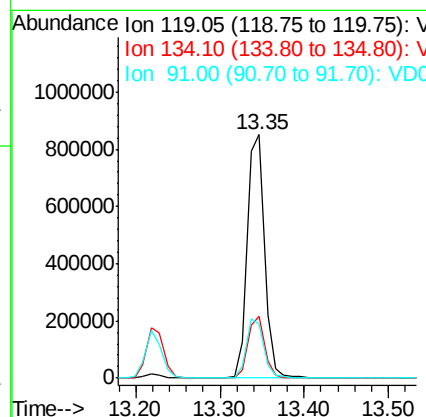
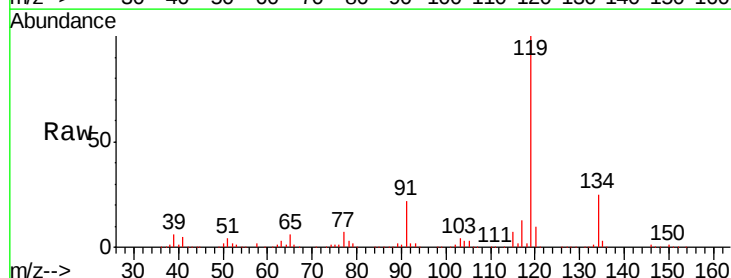
Manual Integrations  
 APPROVED

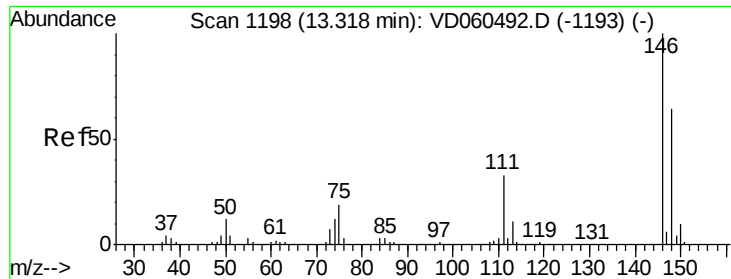
MMDadoda  
 12/11/2018 4:15:11 PM



#86  
 p-Isopropyltoluene  
 Concen: 22.718 ug/l  
 RT: 13.35 min Scan# 1201  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Tgt Ion:119 Resp: 1218663  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 12.5 37.5  
 91 22.3 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 22.009 ug/l

RT: 13.31 min Scan# 1197

Delta R.T. -0.01 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

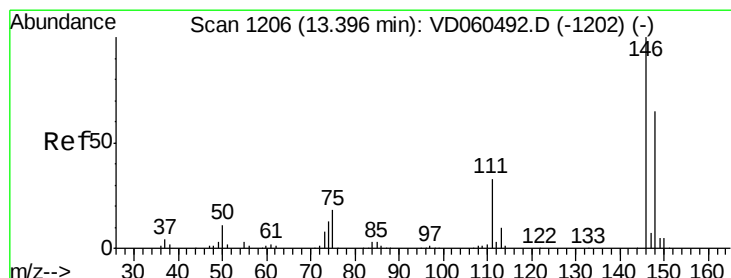
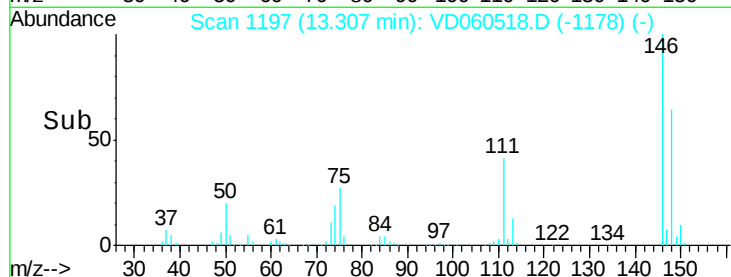
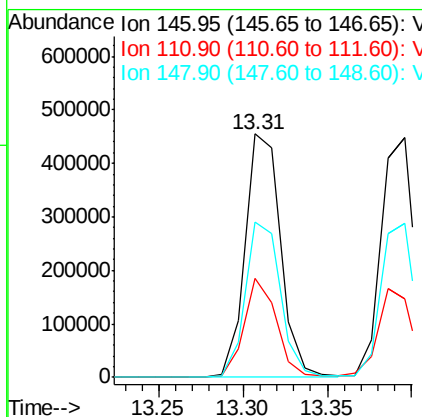
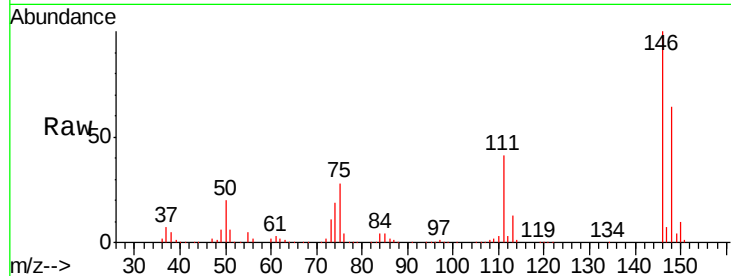
ClientSampleId :

VD1210SBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 663805 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 40.6  | 16.5  | 49.5   |
| 148       | 63.8  | 32.3  | 96.8   |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



#88

1,4-Dichlorobenzene

Concen: 21.716 ug/l

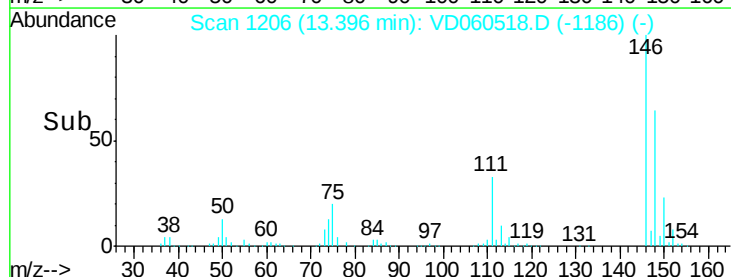
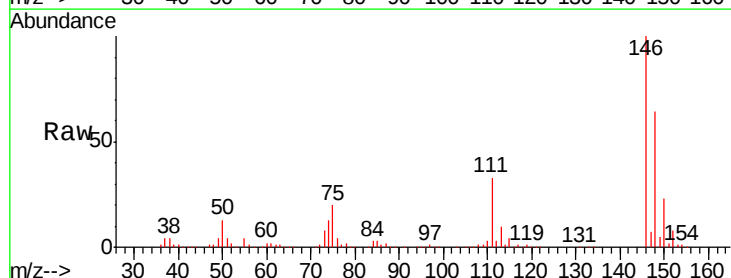
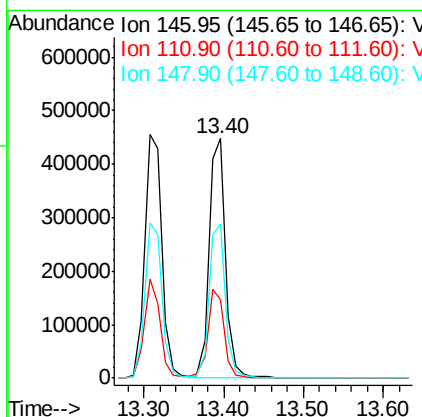
RT: 13.40 min Scan# 1206

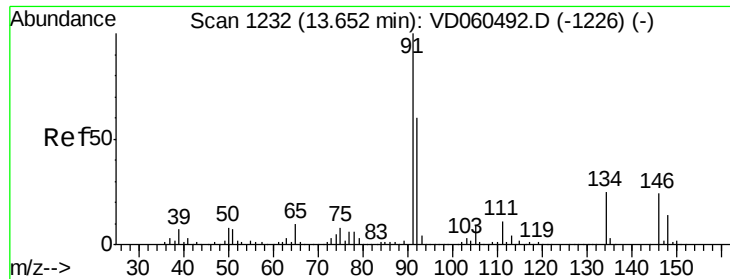
Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 642533 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 32.6  | 16.4  | 49.1   |
| 148       | 64.5  | 32.6  | 98.0   |





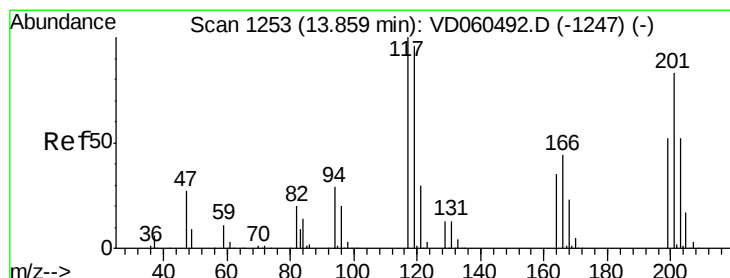
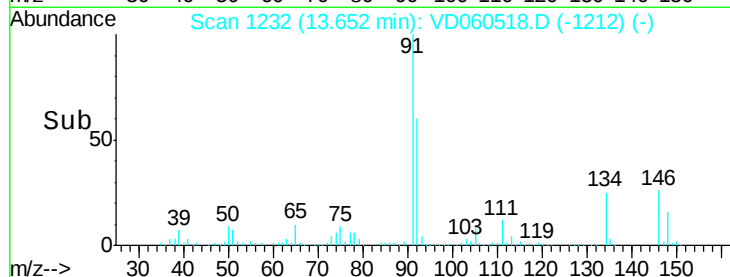
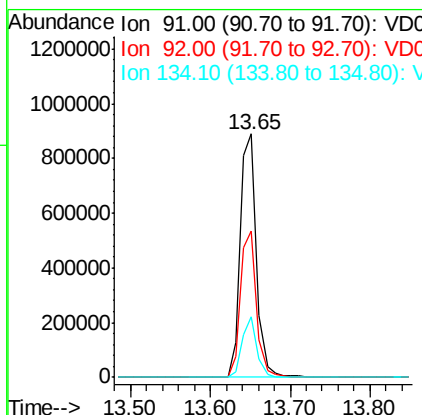
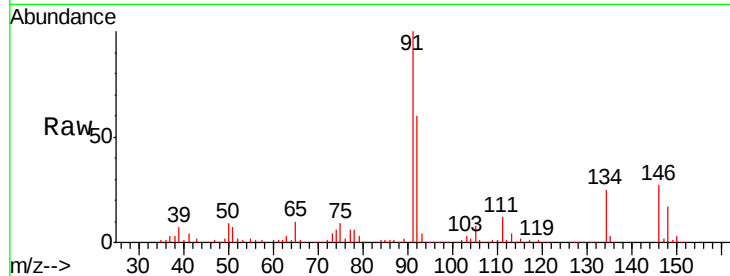
#89  
n-Butylbenzene  
Concen: 21.162 ug/l  
RT: 13.65 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

Tgt Ion: 91 Resp: 1258507  
Ion Ratio Lower Upper  
91 100  
92 60.2 30.0 90.1  
134 25.0 12.5 37.5

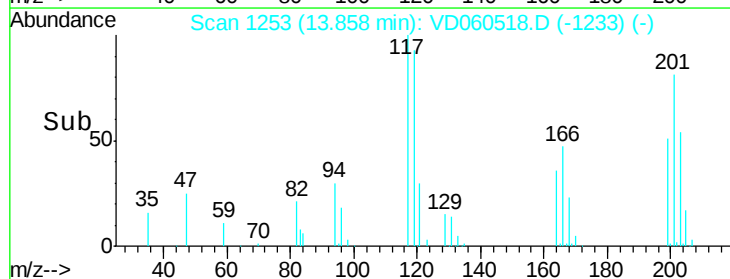
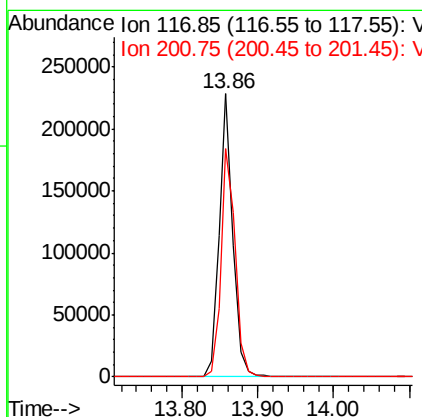
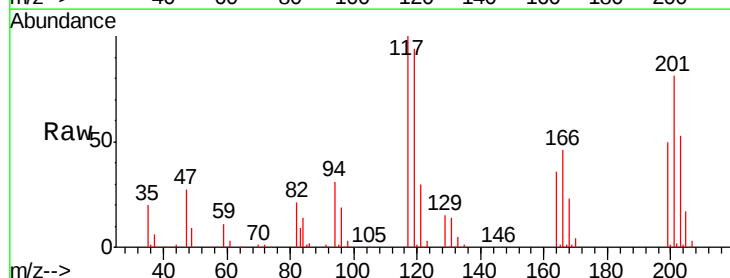
Manual Integrations  
APPROVED

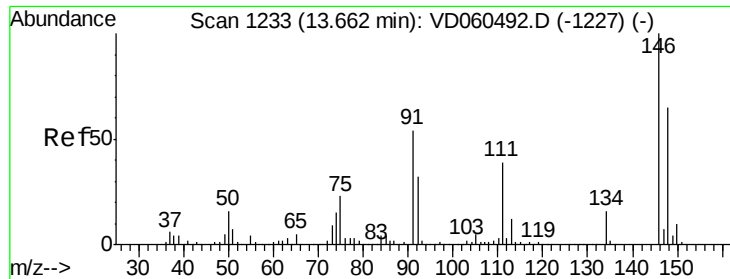
MMDadoda  
12/11/2018 4:15:11 PM



#90  
Hexachloroethane  
Concen: 21.574 ug/l  
RT: 13.86 min Scan# 1253  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Tgt Ion: 117 Resp: 290164  
Ion Ratio Lower Upper  
117 100  
201 80.7 41.3 123.9





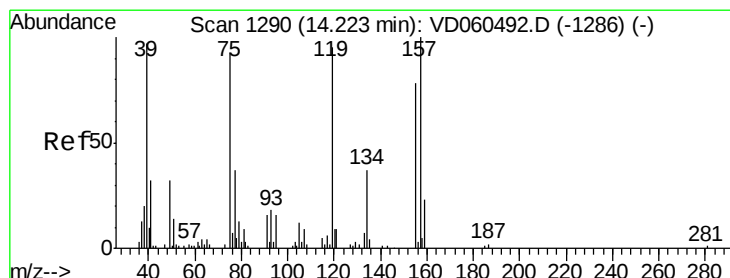
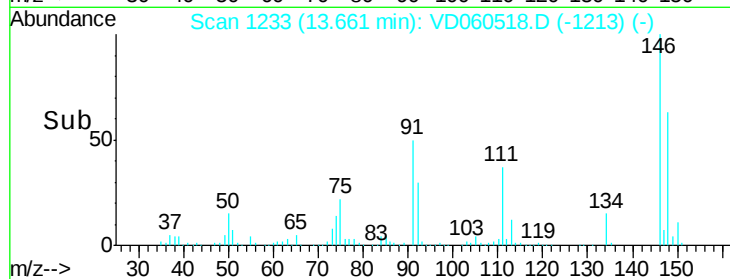
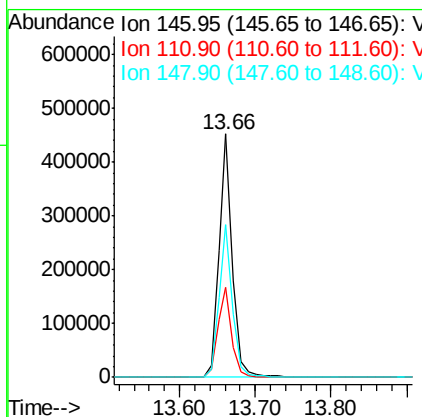
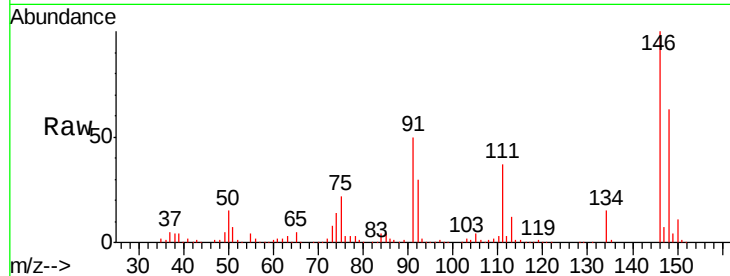
#91  
 1,2-Dichlorobenzene  
 Concen: 22.637 ug/l  
 RT: 13.66 min Scan# 1233  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1210SBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.0  | 19.3  | 57.8  |
| 148     | 62.7  | 32.3  | 96.8  |

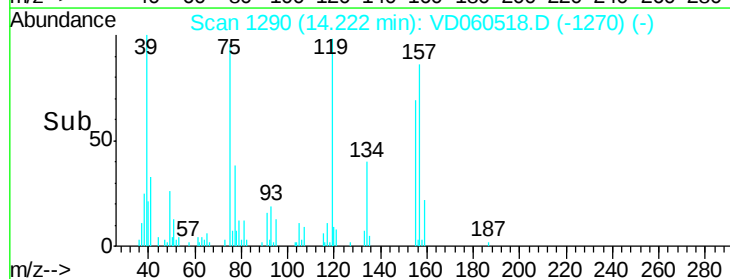
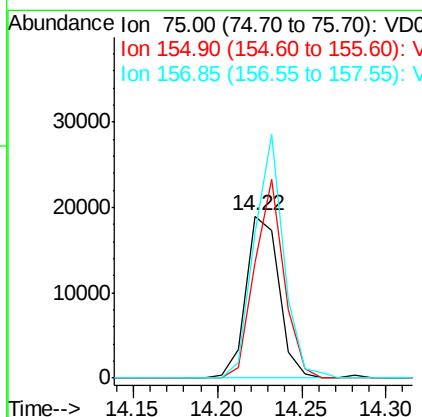
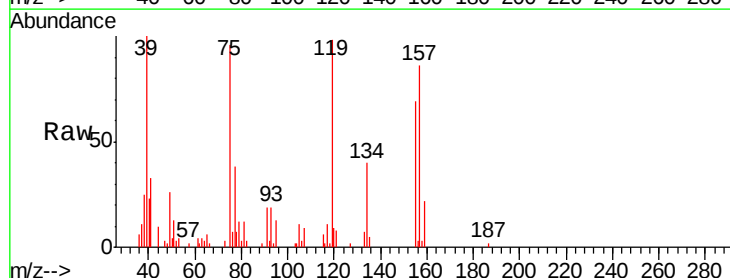
Manual Integrations  
 APPROVED

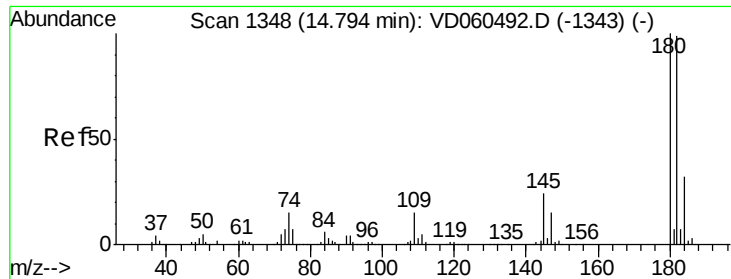
MMDadoda  
 12/11/2018 4:15:11 PM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 20.920 ug/l  
 RT: 14.22 min Scan# 1290  
 Delta R.T. -0.00 min  
 Lab File: VD060518.D  
 Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 71.7  | 41.6  | 124.9 |
| 157     | 89.5  | 53.6  | 160.8 |





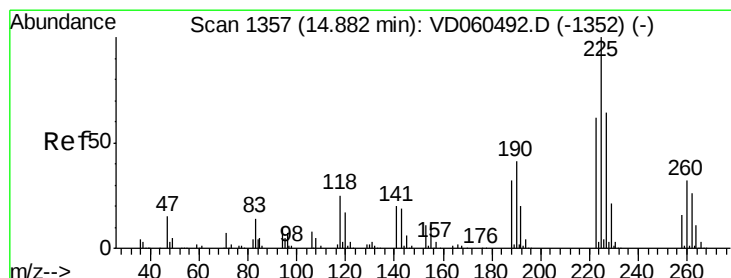
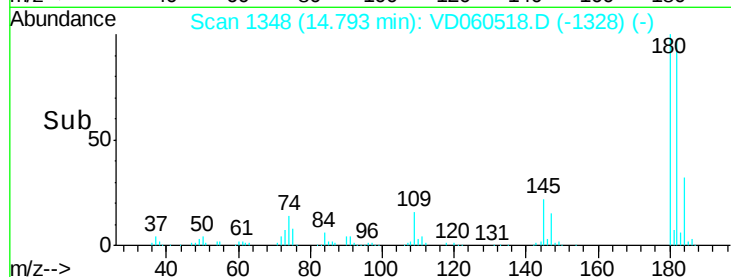
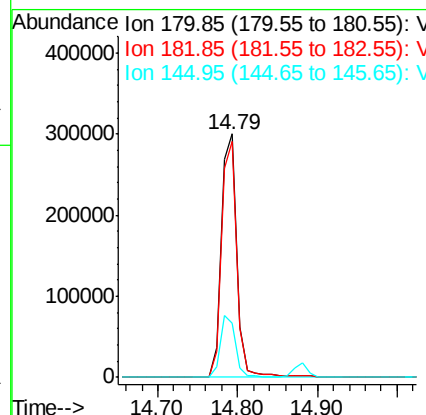
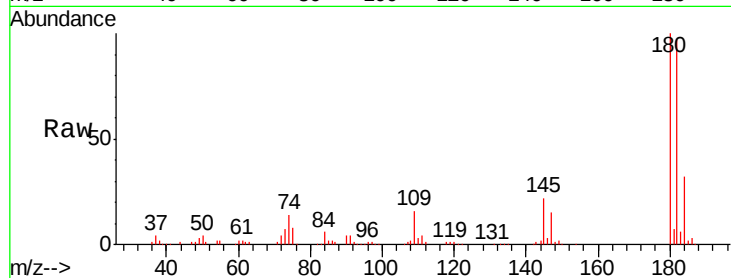
#93  
1,2,4-Trichlorobenzene  
Concen: 21.599 ug/l  
RT: 14.79 min Scan# 1348  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1210SBS01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 416164 |       |       |
| 182     | 96.9  | 49.4   | 148.0 |       |
| 145     | 22.3  | 11.9   | 35.9  |       |

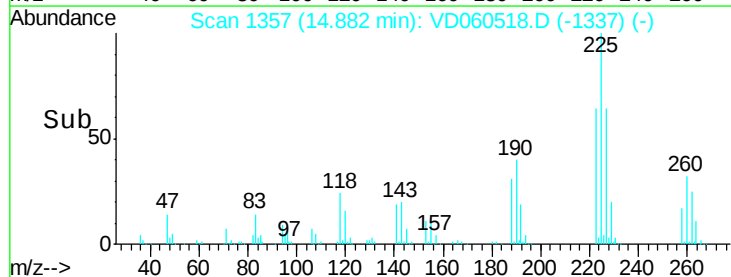
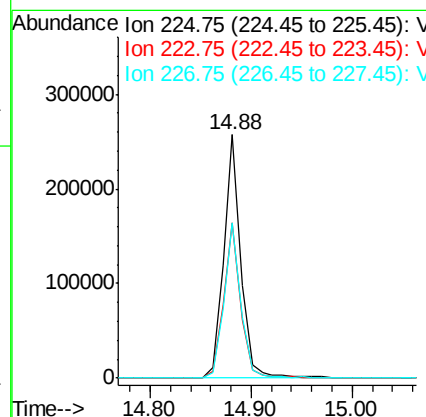
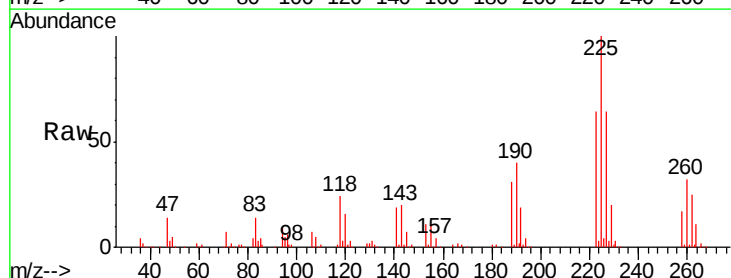
Manual Integrations  
APPROVED

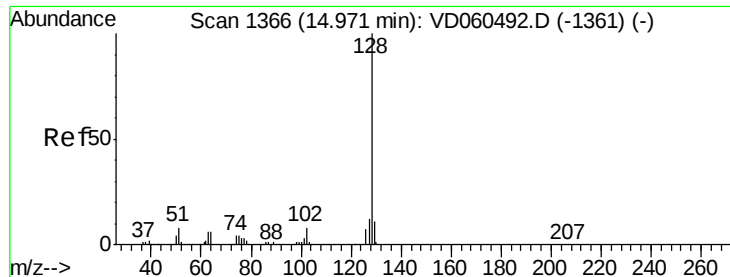
MMDadoda  
12/11/2018 4:15:11 PM



#94  
Hexachlorobutadiene  
Concen: 21.587 ug/l  
RT: 14.88 min Scan# 1357  
Delta R.T. -0.00 min  
Lab File: VD060518.D  
Acq: 10 Dec 2018 12:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 306875 |       |       |
| 223     | 63.6  | 31.2   | 93.6  |       |
| 227     | 63.6  | 32.0   | 96.0  |       |





#95

Naphthalene

Concen: 22.651 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

Instrument :

MSVOA\_D

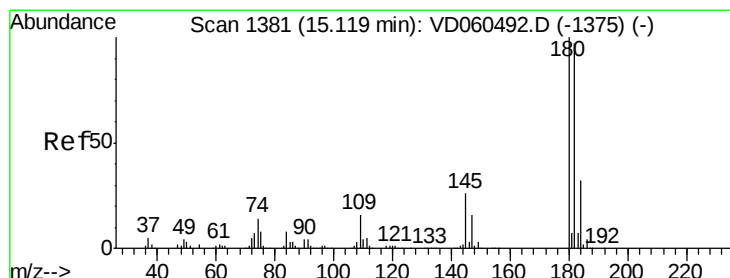
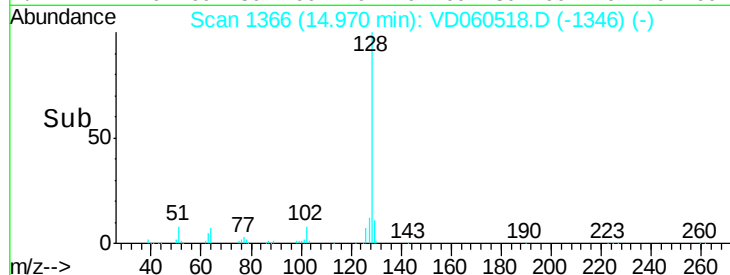
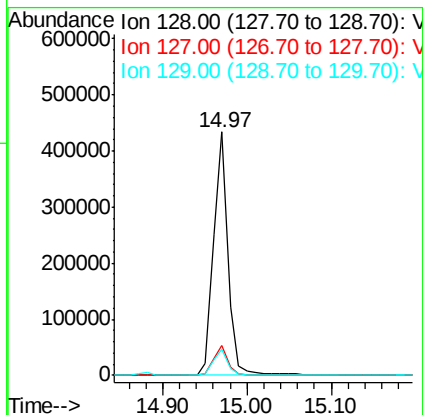
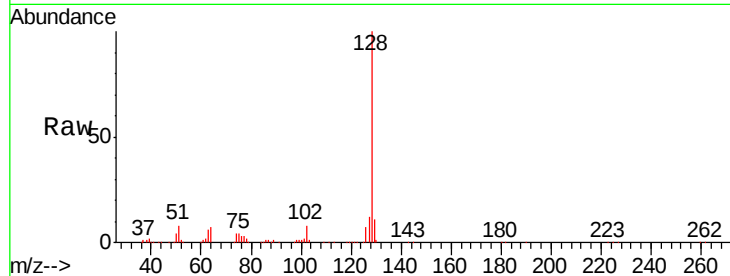
ClientSampleId :

VD1210SBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 519202 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 12.1  | 9.8   | 14.8   |
| 129       | 10.9  | 8.6   | 13.0   |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 4:15:11 PM



#96

1,2,3-Trichlorobenzene

Concen: 21.652 ug/l

RT: 15.12 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VD060518.D

Acq: 10 Dec 2018 12:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 332413 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 96.8  | 48.5  | 145.5  |
| 145       | 24.8  | 12.9  | 38.7   |

