

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121518\  
 Data File : VW007452.D  
 Acq On : 12 Dec 2018 21:55  
 Operator : SY/AP  
 Sample : VW1215SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBS01

Manual Integrations  
 APPROVED

apatel  
 12/18/2018 10:55:53 AM

Quant Time: Dec 13 04:40:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 78828    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 132855   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 120236   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 59906    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 44074    | 50.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.80% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 41276    | 51.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.64% |      |
| 50) Toluene-d8            | 10.32  | 98  | 156387   | 51.86 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.72% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 59268    | 53.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.92% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 12425  | 22.556  | ug/l   | 91     |
| 3) Chloromethane              | 2.21 | 50  | 9339   | 20.243  | ug/l   | 90     |
| 4) Vinyl Chloride             | 2.36 | 62  | 11070  | 20.447  | ug/l   | 98     |
| 5) Bromomethane               | 2.78 | 94  | 7327   | 20.142  | ug/l   | 95     |
| 6) Chloroethane               | 2.92 | 64  | 5814   | 19.509  | ug/l # | 86     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 9469   | 19.454  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.67 | 74  | 7634   | 20.039  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 16636  | 20.714  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.26 | 142 | 27415  | 20.610  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 6681   | 111.235 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 16183  | 20.928  | ug/l   | 94     |
| 13) Acrolein                  | 3.88 | 56  | 4290   | 107.945 | ug/l   | 98     |
| 14) Allyl chloride            | 4.66 | 41  | 22311  | 19.574  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 15759  | 98.127  | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43  | 15398  | 100.802 | ug/l # | 89     |
| 17) Carbon Disulfide          | 4.37 | 76  | 47608  | 20.305  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 8433   | 20.340  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 23786  | 20.390  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 18723  | 20.068  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 17897  | 20.689  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.31 | 45  | 44464  | 20.295  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.25 | 43  | 123335 | 100.644 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 30292  | 20.457  | ug/l   | 97     |
| 25) 2-Butanone                | 7.17 | 43  | 19615  | 98.359  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 19963  | 20.371  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 19151  | 20.219  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 11024  | 19.793  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 12510  | 99.091  | ug/l   | 97     |
| 30) Chloroform                | 7.67 | 83  | 32775  | 20.339  | ug/l   | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 27215  | 20.032  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 29594  | 20.943  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 25123  | 20.729  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.25 | 43  | 8785   | 19.489  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 27839  | 21.111  | ug/l   | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121518\  
 Data File : VW007452.D  
 Acq On : 12 Dec 2018 21:55  
 Operator : SY/AP  
 Sample : VW1215SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VW1215SBS01

Manual Integrations  
 APPROVED

apatel  
 12/18/2018 10:55:53 AM

Quant Time: Dec 13 04:40:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 31185    | 21.250  | ug/l   | 91       |
| 40) Benzene                    | 8.32  | 78   | 69951    | 20.798  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 5361     | 20.885  | ug/l # | 89       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 21597    | 20.441  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 17717    | 19.898  | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 19989    | 20.812  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 16013    | 20.574  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 9142     | 20.683  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 23930    | 20.640  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.43  | 41   | 8877     | 19.412  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 2975     | 414.823 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 42726    | 101.556 | ug/l   | 98       |
| 52) Toluene                    | 10.39 | 92   | 47030    | 21.607  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 23831    | 21.173  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 26683    | 20.507  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 12701    | 21.113  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 15261    | 21.106  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 21740    | 22.018  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 31832    | 95.467  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 29554    | 105.349 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 16382    | 21.579  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 12866    | 21.642  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 17245    | 19.944  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.66 | 112  | 52012    | 20.754  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 18358    | 20.799  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 90448    | 20.992  | ug/l   | 94       |
| 68) m/p-Xylenes                | 11.84 | 106  | 70030    | 41.808  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 33001    | 21.095  | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 55637    | 22.019  | ug/l   | 97       |
| 71) Bromoform                  | 12.35 | 173  | 9042     | 20.014  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 93020    | 20.265  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.27 | 43   | 16351    | 19.600  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 14212    | 20.904  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 11745m   | 23.778  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 21002    | 20.641  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 108021   | 20.910  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 63693    | 20.377  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 80243    | 20.805  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 4421     | 19.772  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 66803    | 20.275  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 69114    | 20.337  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 82010    | 20.663  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 96653    | 20.833  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 88298    | 21.185  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 41555    | 20.484  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 41667    | 20.431  | ug/l   | 96       |
| 89) n-Butylbenzene             | 13.83 | 91   | 80318    | 20.787  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 15318    | 20.656  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 38001    | 20.914  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 2605     | 19.093  | ug/l   | 91       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121518\  
Data File : VW007452.D  
Acq On : 12 Dec 2018 21:55  
Operator : SY/AP  
Sample : VW1215SBSD01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

Manual Integrations  
APPROVED

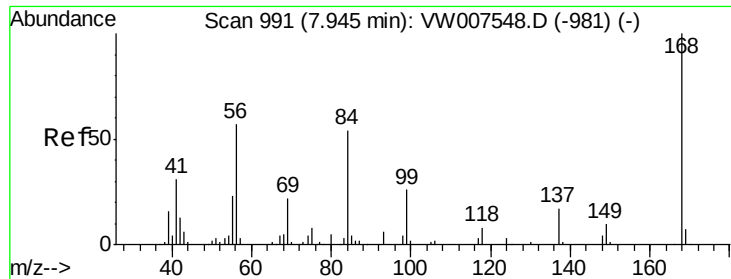
apatel  
12/18/2018 10:55:53 AM

Quant Time: Dec 13 04:40:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 25788    | 20.623 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 13676    | 20.613 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 48280    | 20.183 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 22109    | 20.354 | ug/l  | 97       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBSD01

Tot Ion:168 Resp: 78828

Ion Ratio Lower Upper

168 100

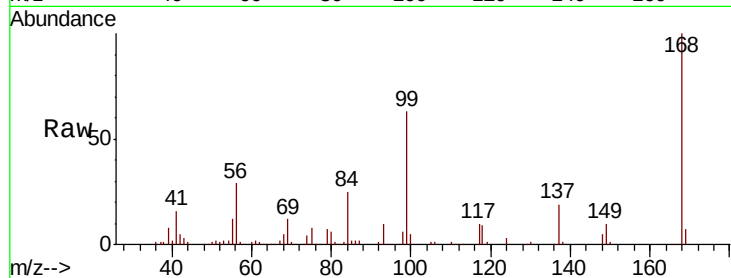
99 63.1 48.3 72.5

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

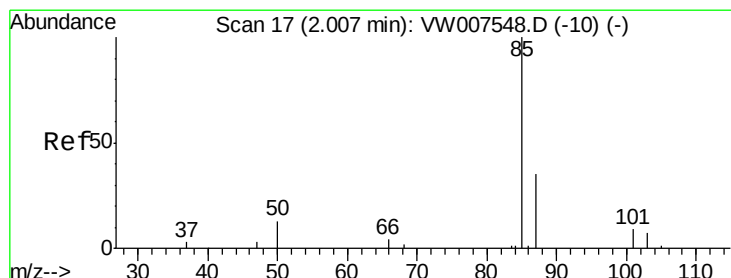
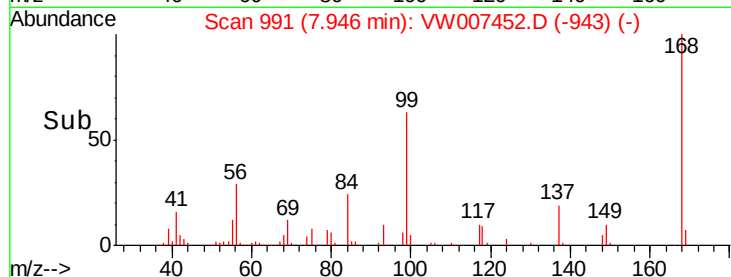
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 22.556 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW007452.D

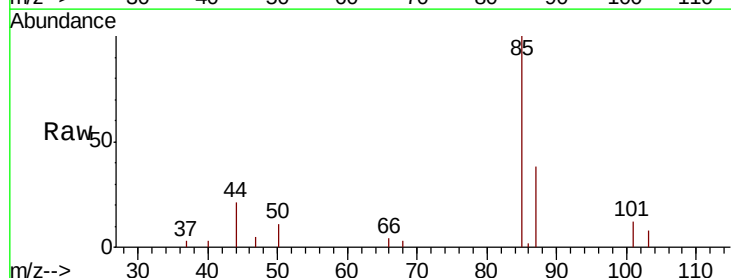
Acq: 12 Dec 2018 21:55

Tgt Ion: 85 Resp: 12425

Ion Ratio Lower Upper

85 100

87 38.2 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

3000

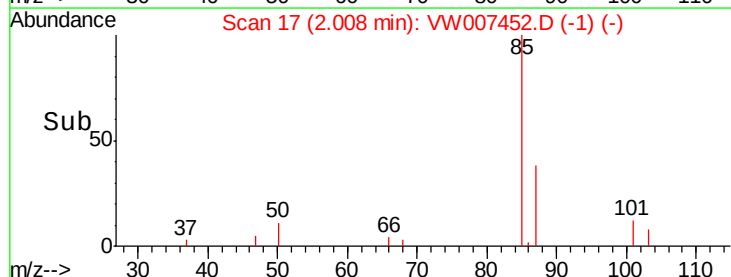
2000

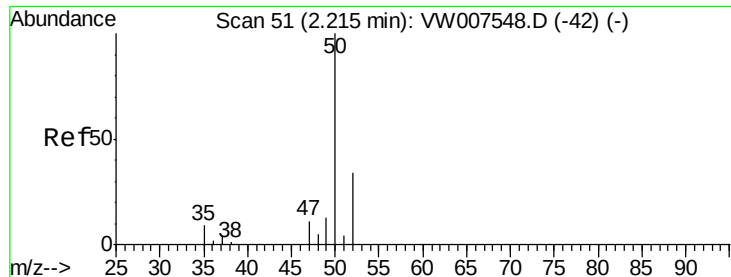
1000

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 20.243 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 50 Resp: 9339

Ion Ratio Lower Upper

50 100

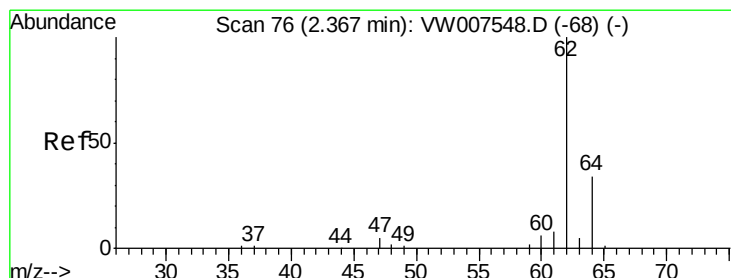
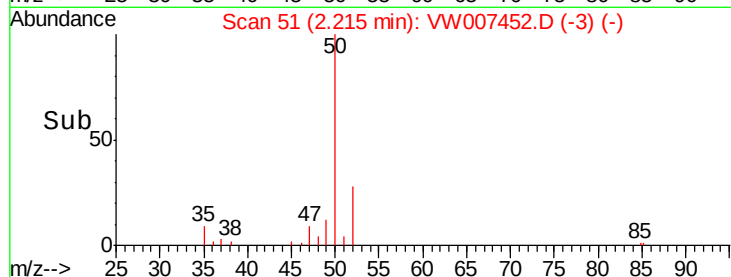
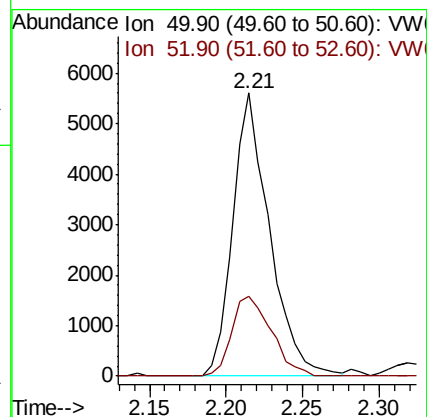
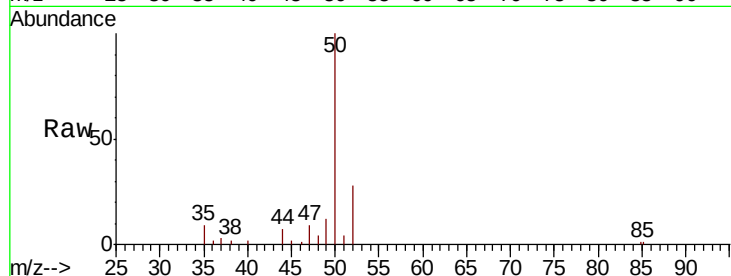
52 28.4 27.4 41.0

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



#4

Vinyl Chloride

Concen: 20.447 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW007452.D

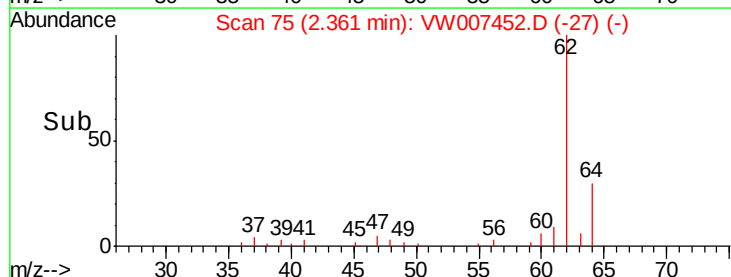
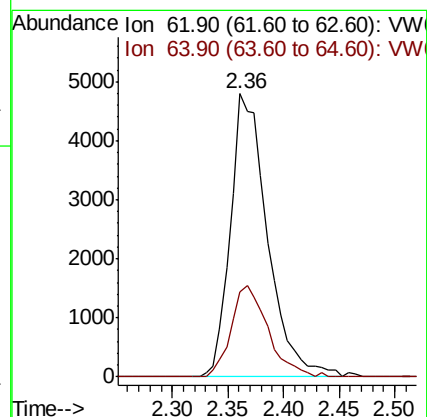
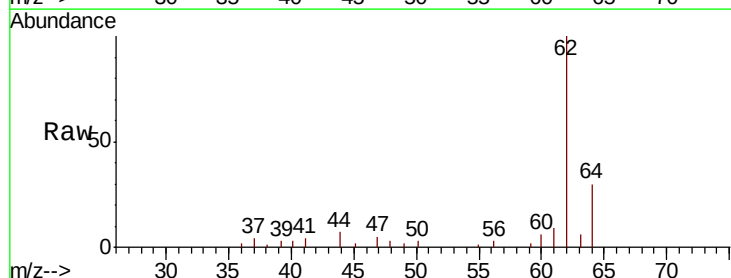
Acq: 12 Dec 2018 21:55

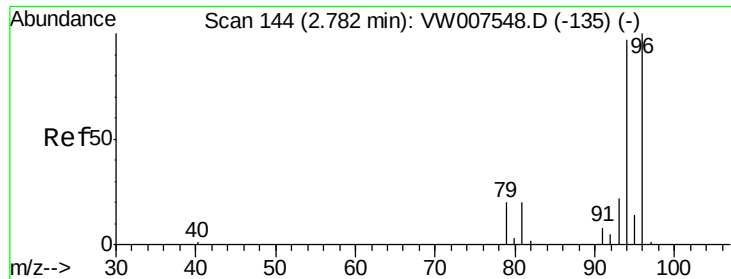
Tgt Ion: 62 Resp: 11070

Ion Ratio Lower Upper

62 100

64 29.9 24.6 37.0





#5

Bromomethane

Concen: 20.142 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 94 Resp: 7327

Ion Ratio Lower Upper

94 100

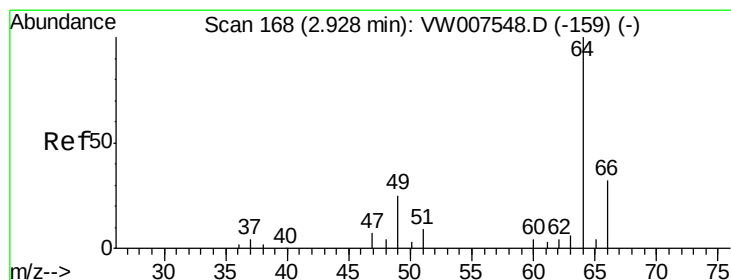
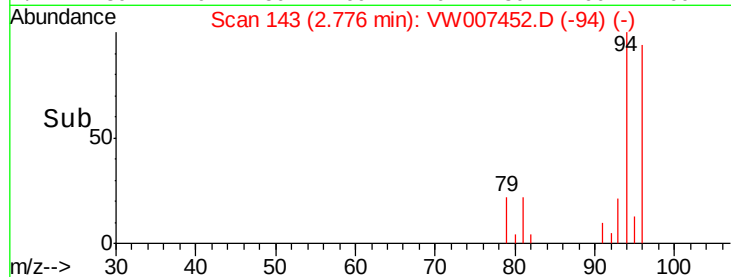
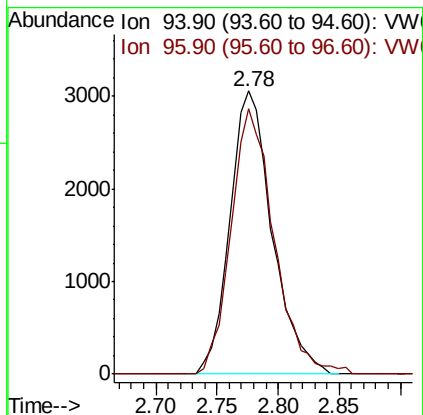
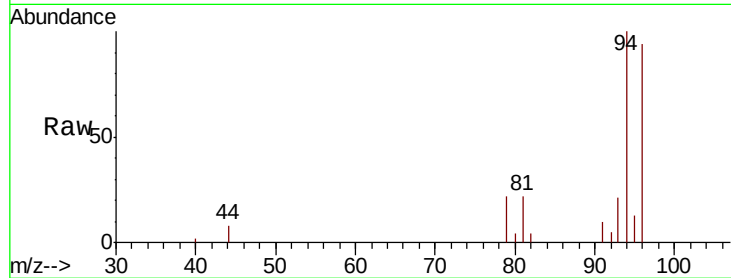
96 93.6 71.0 106.4

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



#6

Chloroethane

Concen: 19.509 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW007452.D

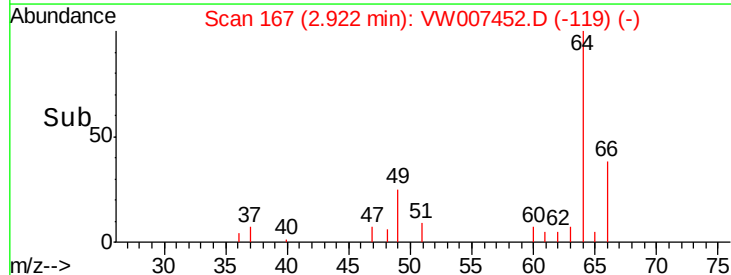
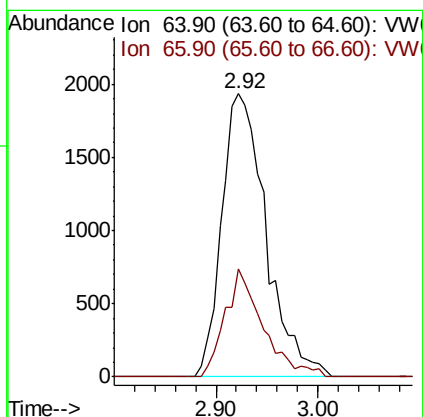
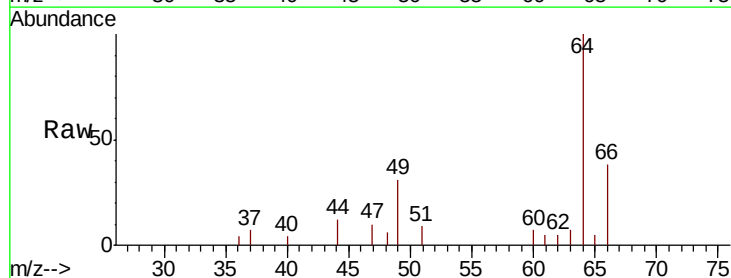
Acq: 12 Dec 2018 21:55

Tgt Ion: 64 Resp: 5814

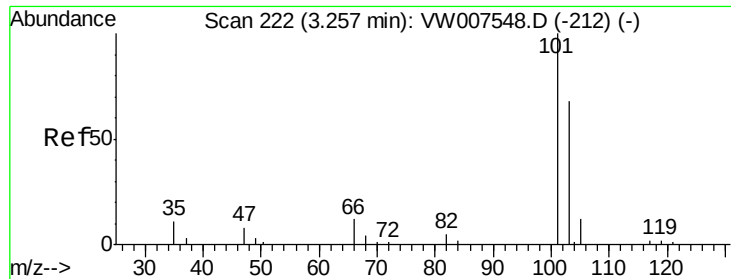
Ion Ratio Lower Upper

64 100

66 38.4 24.6 37.0#







#7

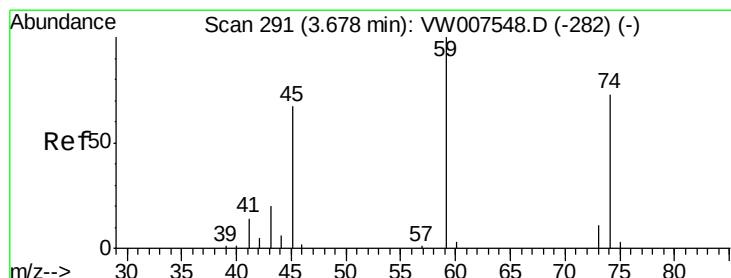
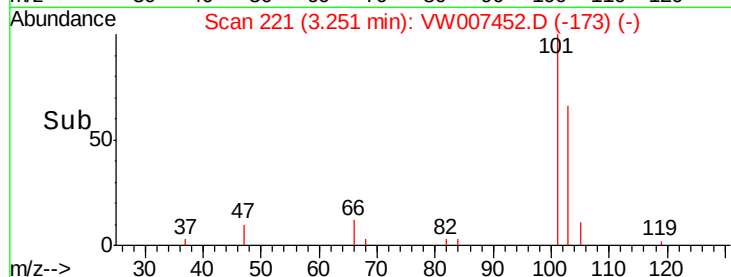
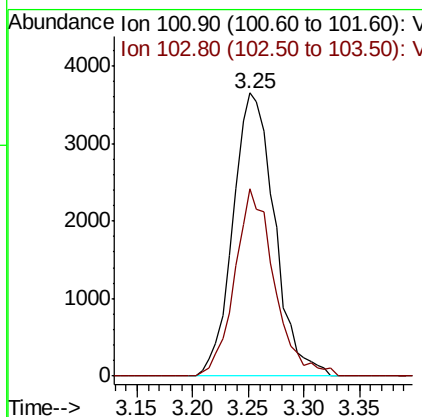
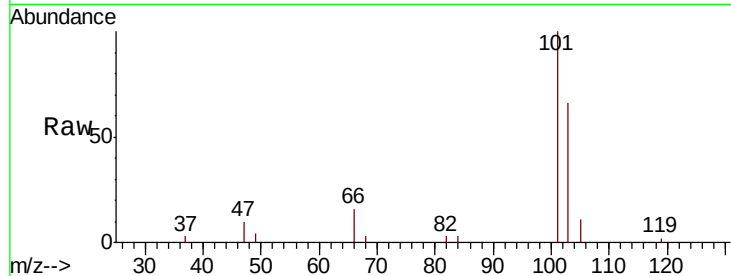
Trichlorofluoromethane  
 Concen: 19.454 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.01 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 66.2  | 51.7  | 77.5  |

Manual Integrations  
 APPROVED

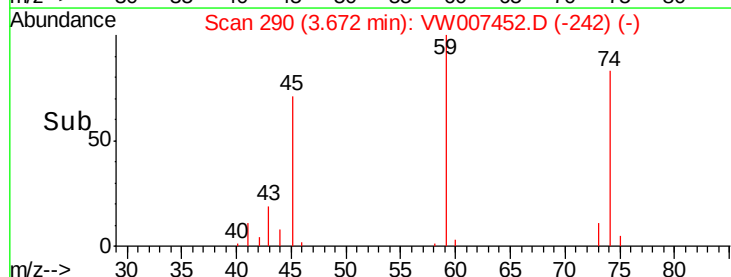
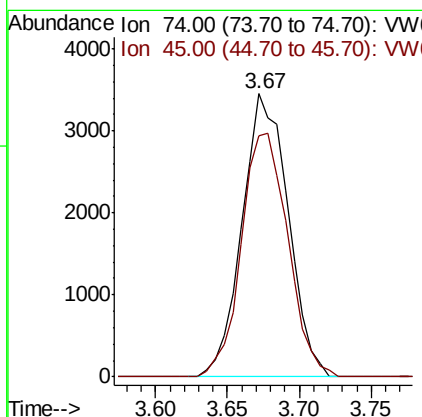
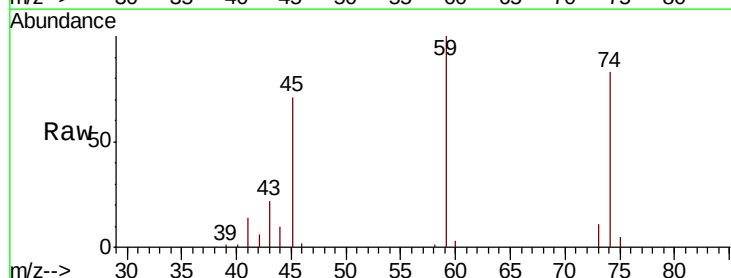
apatel  
 12/18/2018 10:55:53 AM



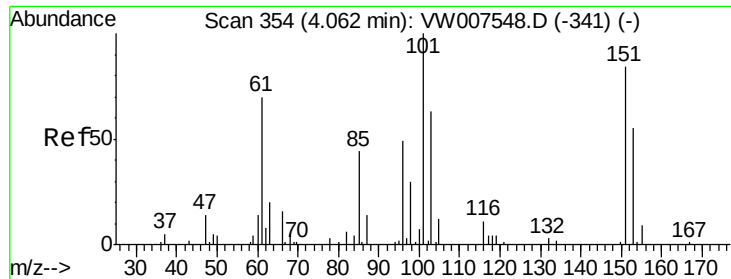
#8

Diethyl Ether  
 Concen: 20.039 ug/l  
 RT: 3.67 min Scan# 290  
 Delta R.T. -0.01 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 87.1  | 43.0  | 129.0 |







#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.714 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

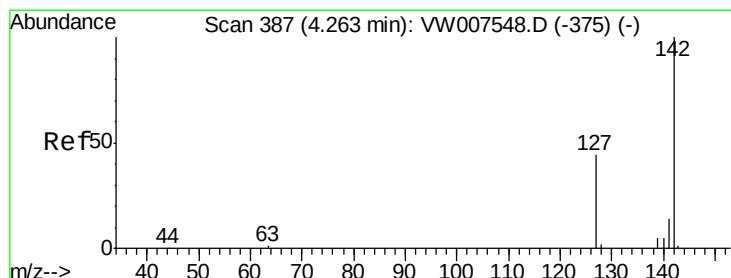
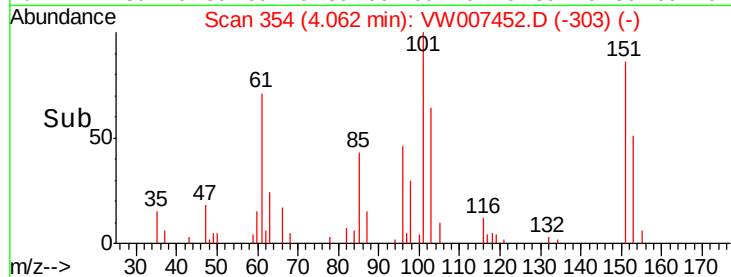
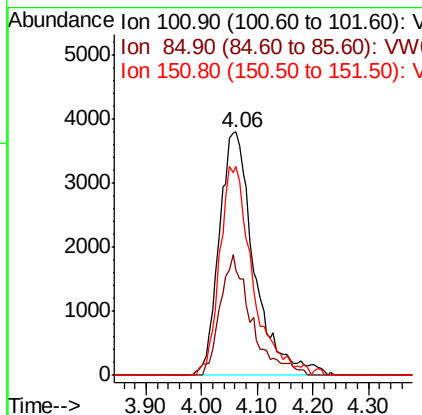
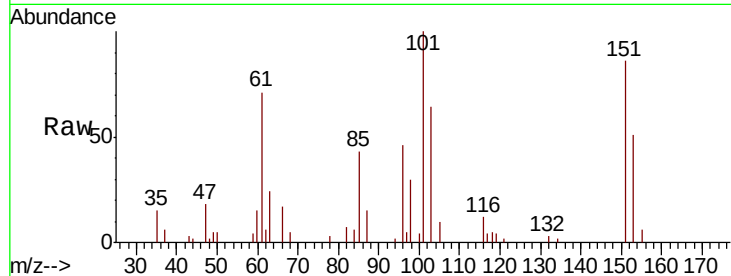
ClientSampleId :

VW1215SBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 16636 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 44.0  | 33.9  | 50.9  |
| 151       | 79.8  | 63.7  | 95.5  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM



#10

Methyl Iodide

Concen: 20.610 ug/l

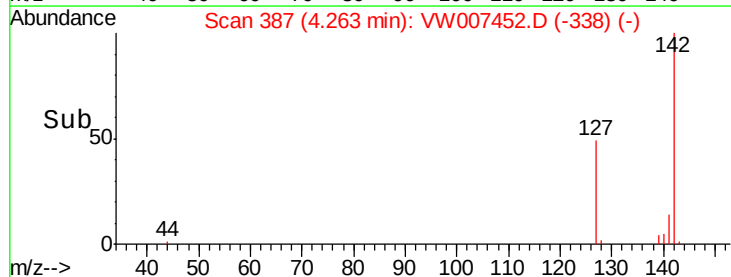
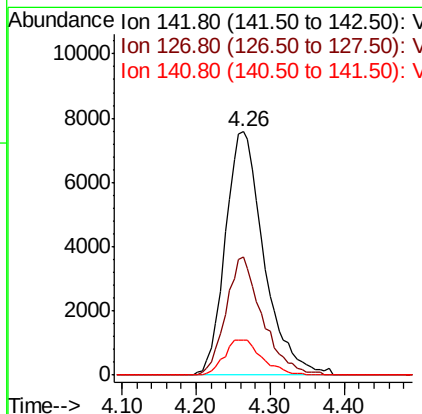
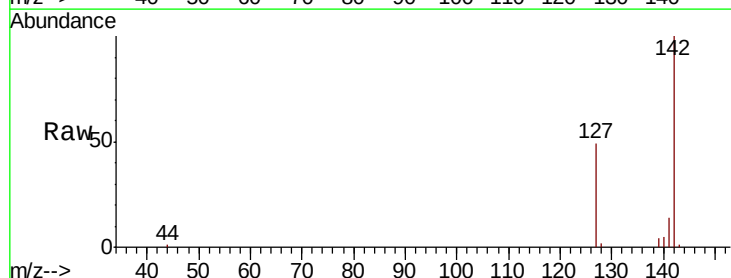
RT: 4.26 min Scan# 387

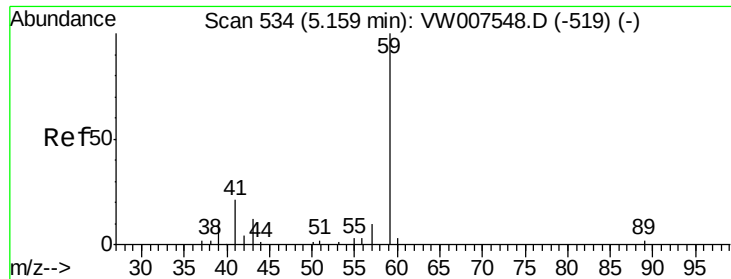
Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 27415 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 45.7  | 35.8  | 53.6  |
| 141       | 14.3  | 11.1  | 16.7  |





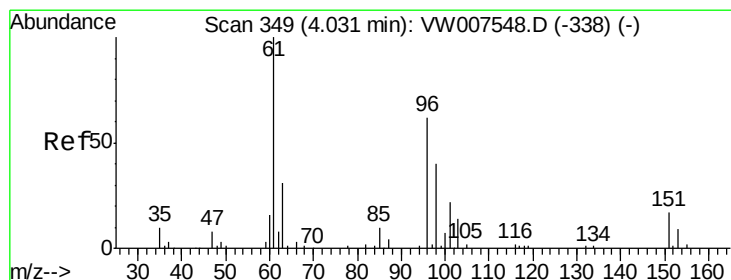
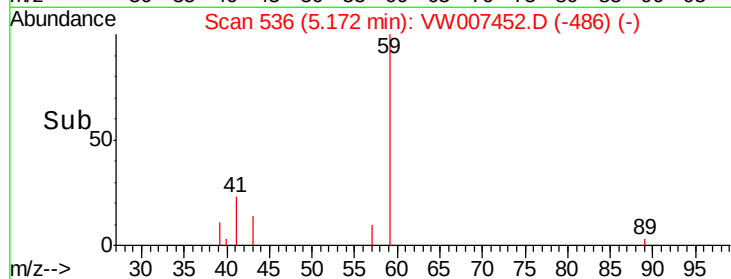
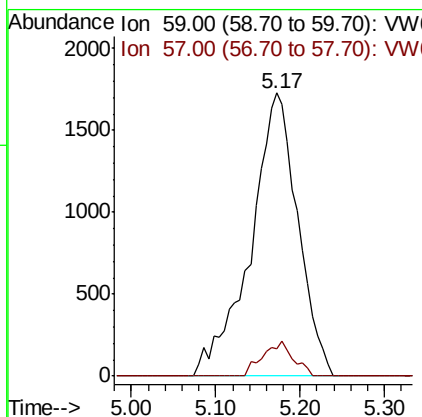
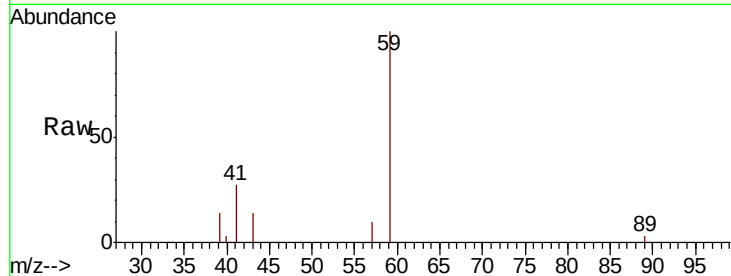
#11  
Tert butyl alcohol  
Concen: 111.235 ug/l  
RT: 5.17 min Scan# 536  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 8.0   | 7.6   | 11.4  |

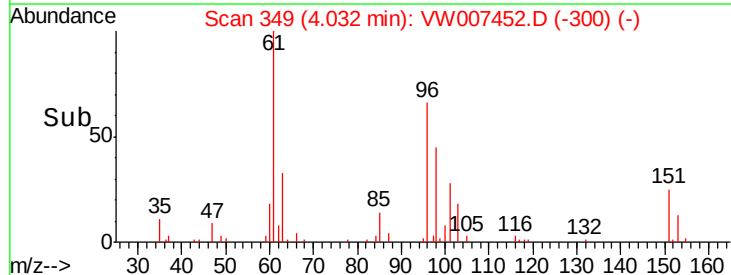
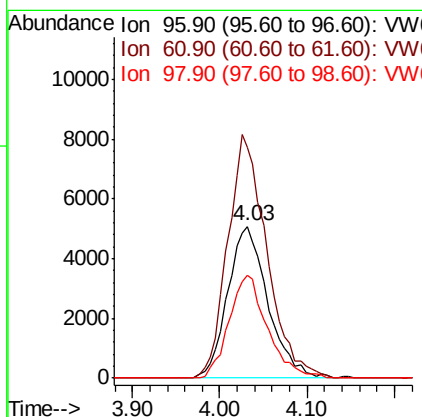
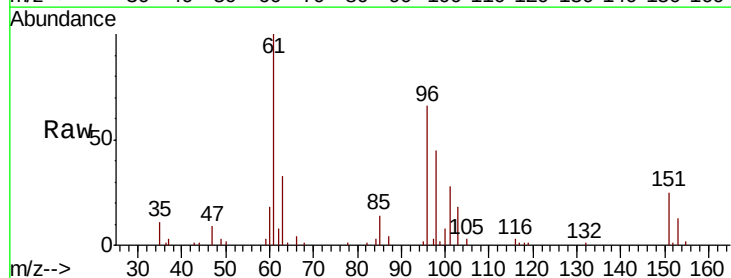
Manual Integrations  
APPROVED

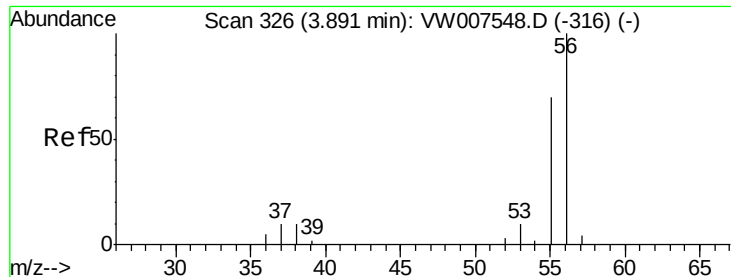
apatel  
12/18/2018 10:55:53 AM



#12  
1,1-Dichloroethene  
Concen: 20.928 ug/l  
RT: 4.03 min Scan# 349  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 151.5 | 126.2 | 189.2 |
| 98      | 67.6  | 48.3  | 72.5  |





#13

Acrolein

Concen: 107.945 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 56 Resp: 4290

Ion Ratio Lower Upper

56 100

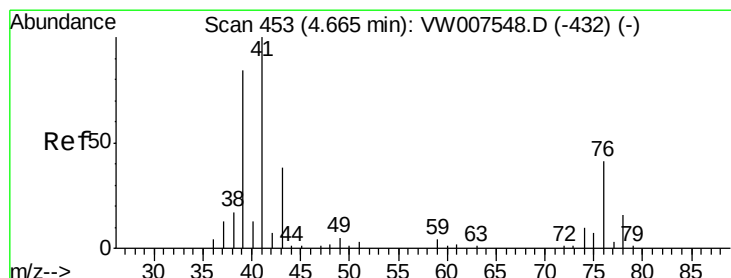
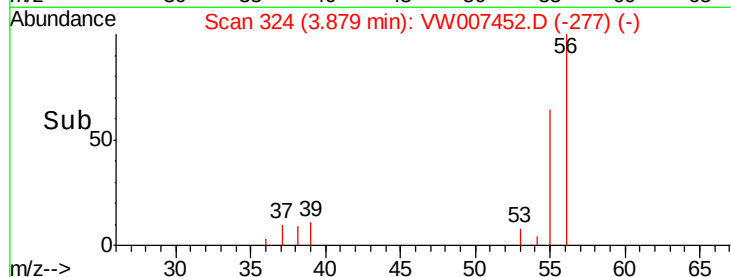
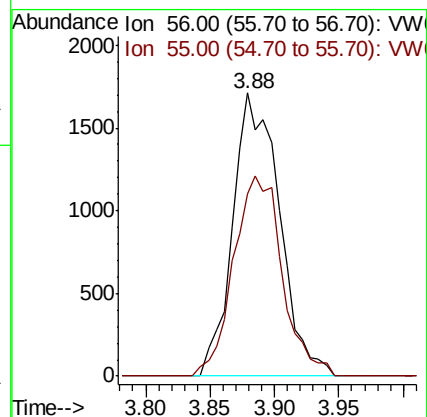
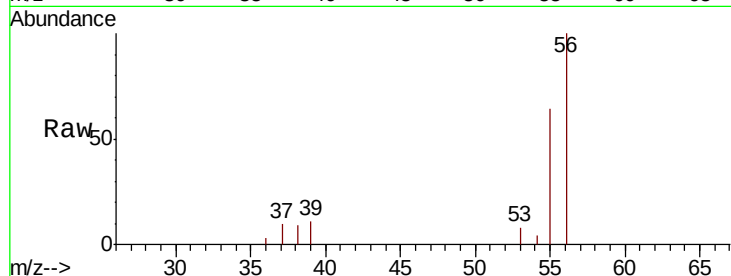
55 73.9 57.4 86.2

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



#14

Allyl chloride

Concen: 19.574 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

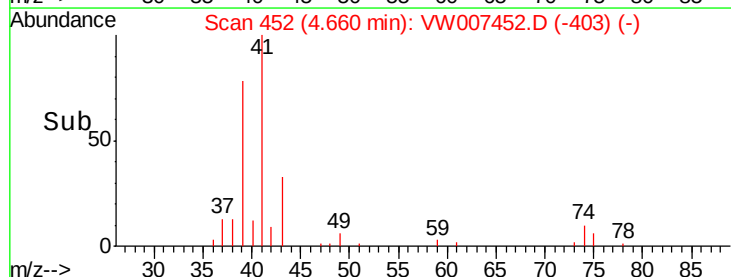
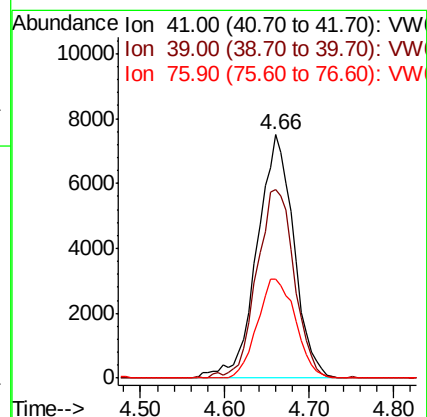
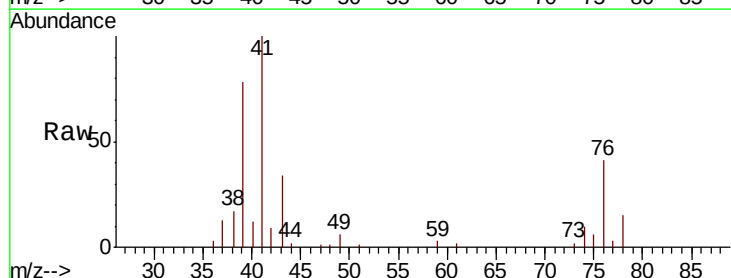
Tgt Ion: 41 Resp: 22311

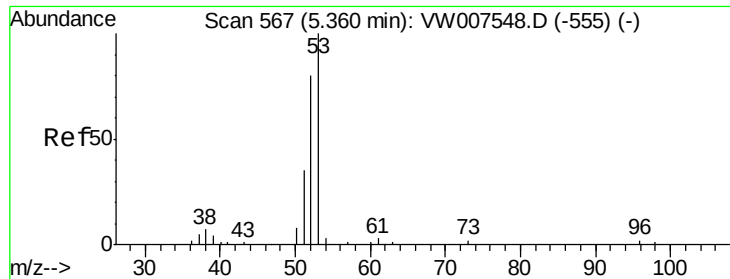
Ion Ratio Lower Upper

41 100

39 79.4 63.4 95.2

76 42.2 32.1 48.1





#15

Acrylonitrile

Concen: 98.127 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

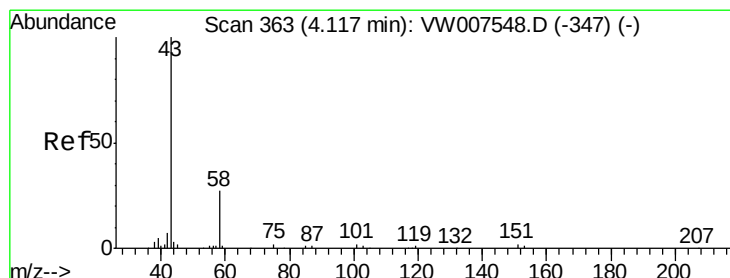
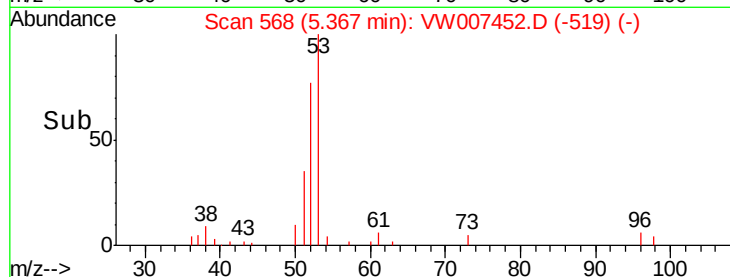
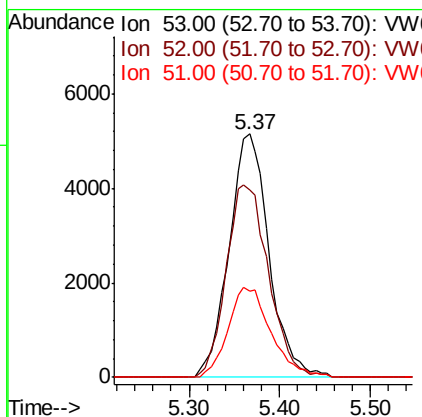
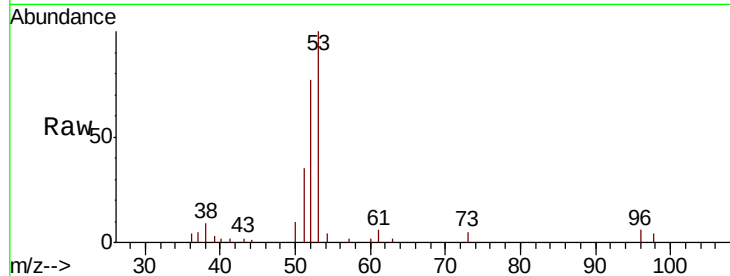
ClientSampleId :

VW1215SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 15759 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 83.6  | 67.4  | 101.2 |
| 51       | 39.5  | 30.2  | 45.2  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM



#16

Acetone

Concen: 100.802 ug/l

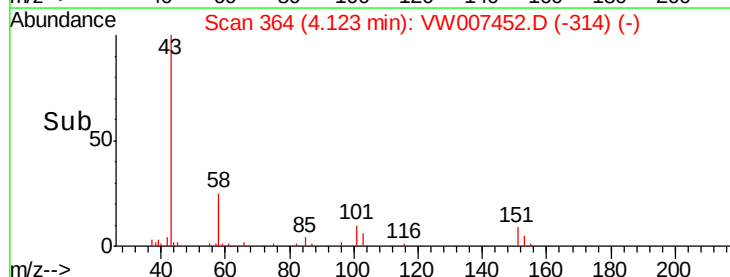
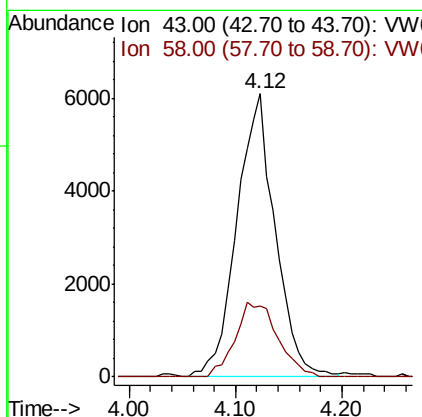
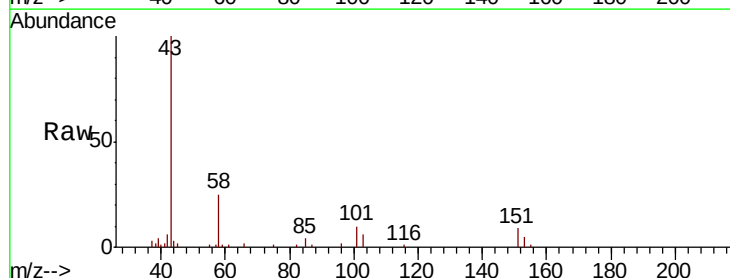
RT: 4.12 min Scan# 364

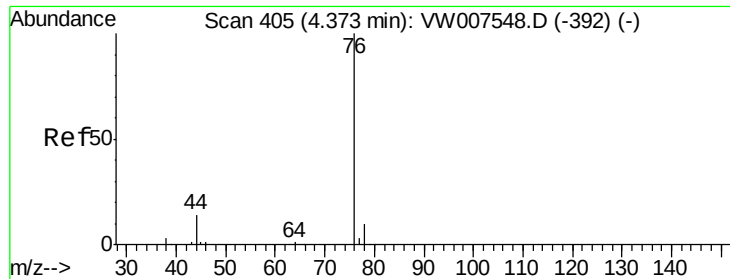
Delta R.T. 0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15398 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 24.9  | 24.9  | 37.3# |





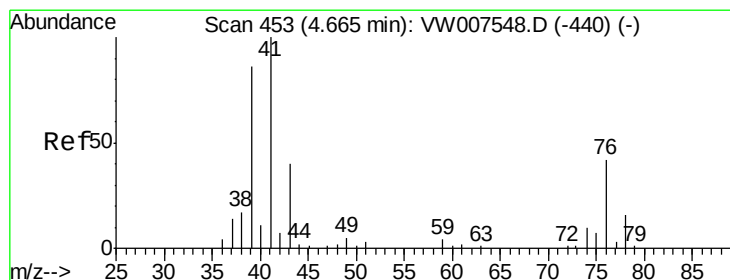
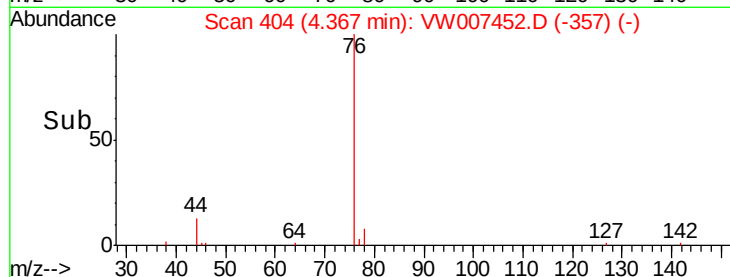
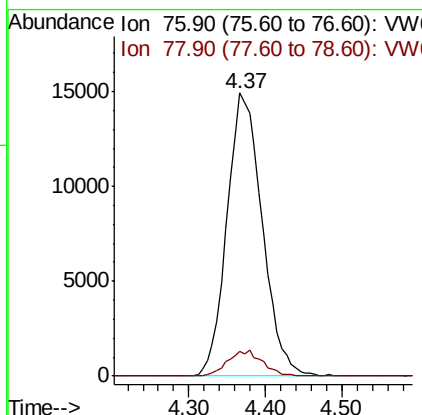
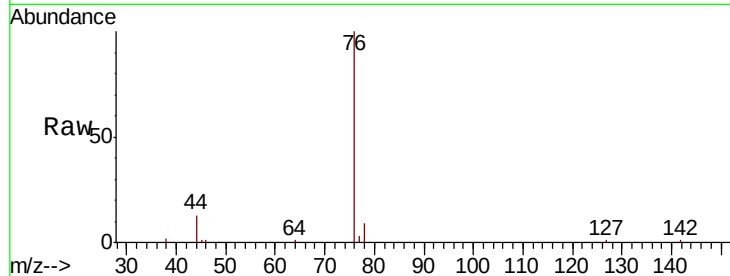
#17  
Carbon Disulfide  
Concen: 20.305 ug/l  
RT: 4.37 min Scan# 404  
Delta R.T. -0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.0   | 7.1   | 10.7  |

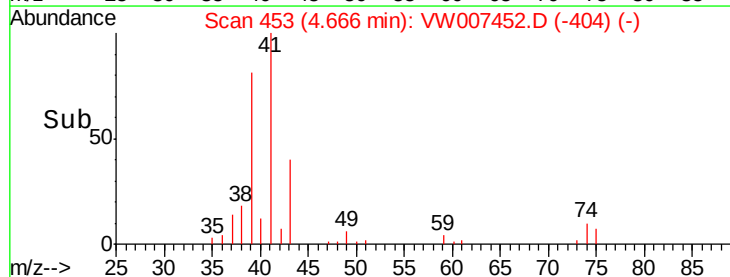
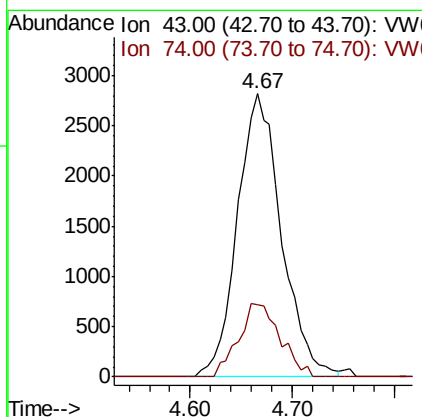
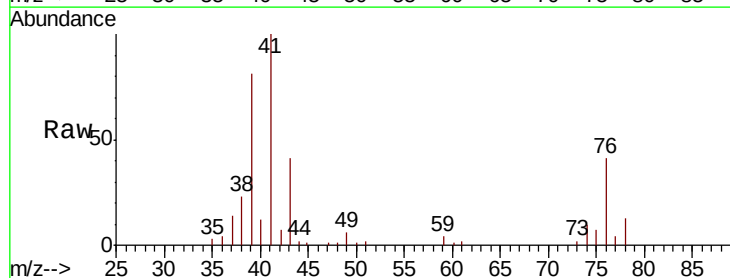
Manual Integrations  
APPROVED

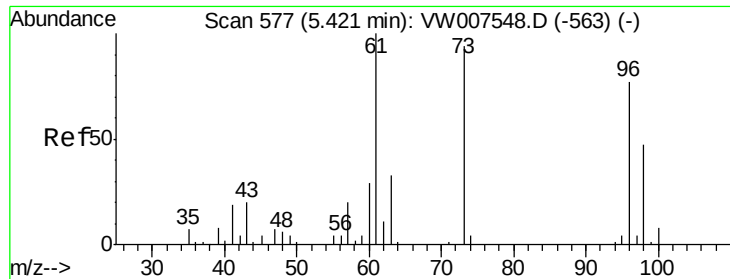
apatel  
12/18/2018 10:55:53 AM



#18  
Methyl Acetate  
Concen: 20.340 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 24.5  | 21.1  | 31.7  |





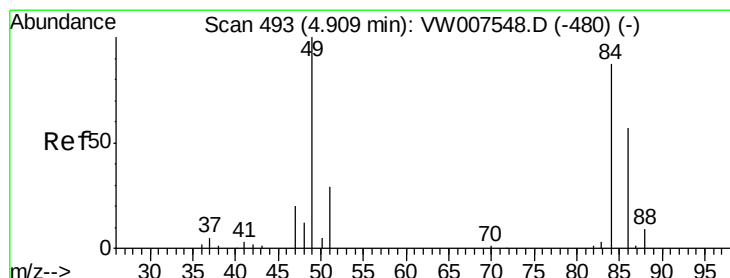
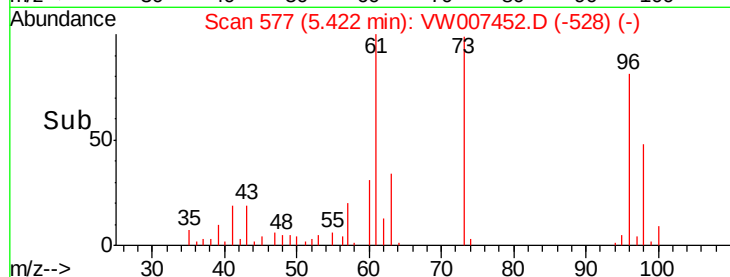
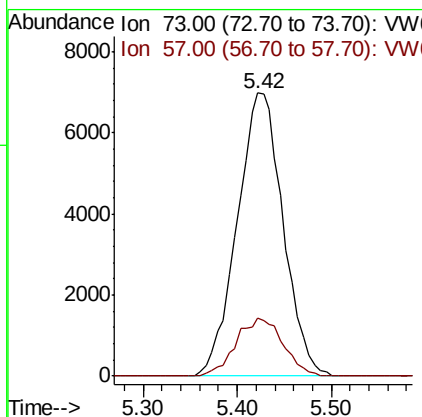
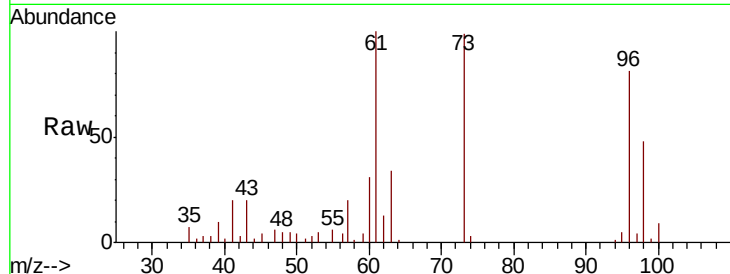
#19  
Methyl tert-butyl Ether  
Concen: 20.390 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

Tot Ion: 73 Resp: 23786  
Ion Ratio Lower Upper  
73 100  
57 20.4 16.4 24.6

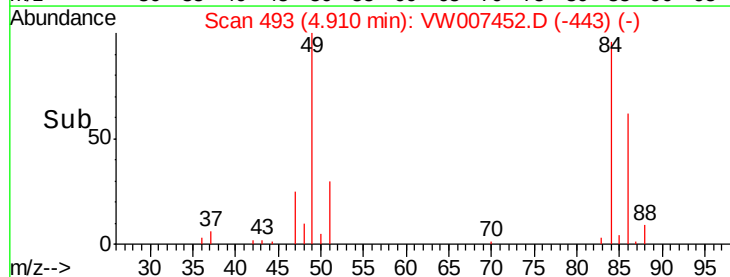
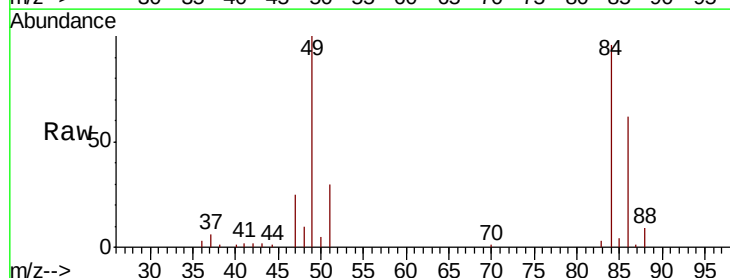
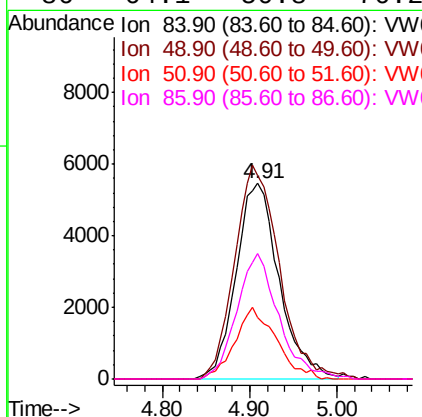
Manual Integrations  
APPROVED

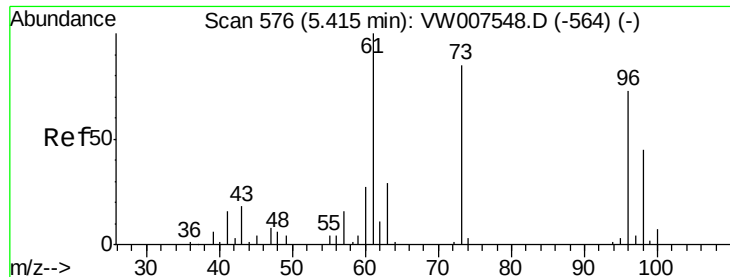
apatel  
12/18/2018 10:55:53 AM



#20  
Methylene Chloride  
Concen: 20.068 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Tgt Ion: 84 Resp: 18723  
Ion Ratio Lower Upper  
84 100  
49 103.8 87.1 130.7  
51 31.3 28.2 42.2  
86 64.1 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 20.689 ug/l

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 96 Resp: 17897

Ion Ratio Lower Upper

96 100

61 127.6 105.0 157.6

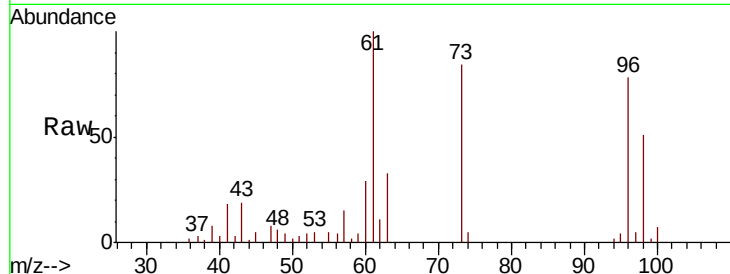
98 64.9 49.7 74.5

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM

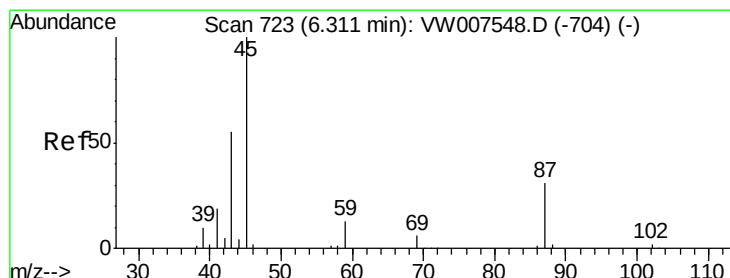
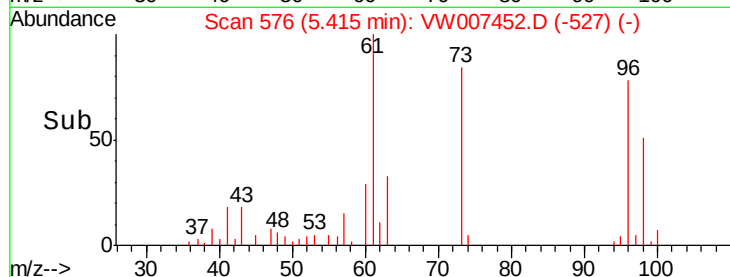
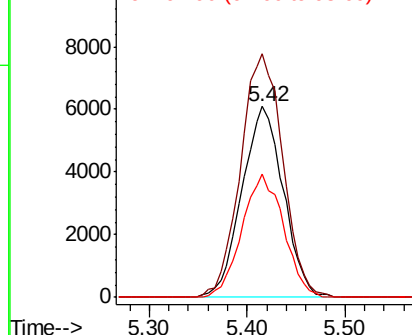


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 20.295 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Tgt Ion: 45 Resp: 44464

Ion Ratio Lower Upper

45 100

43 55.6 41.6 62.4

87 30.5 24.3 36.5

59 11.9 9.4 14.0

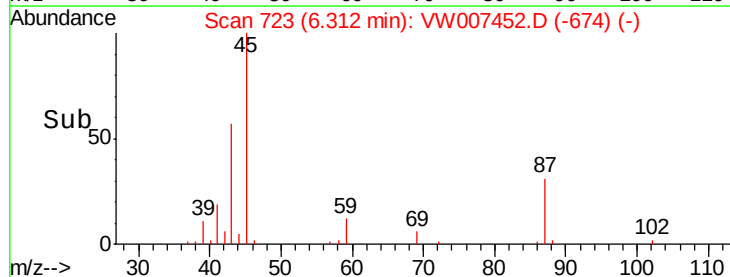
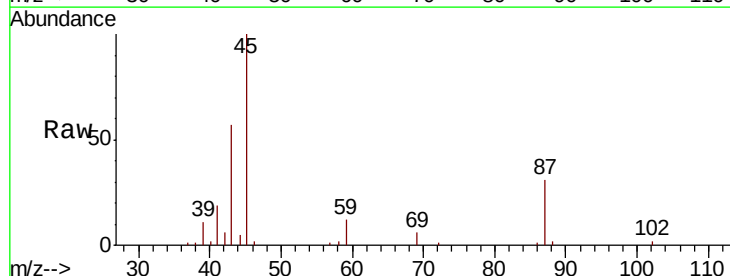
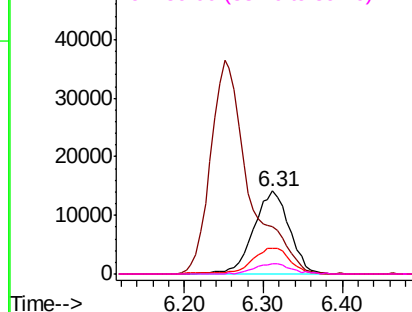
Abundance

Ion 45.00 (44.70 to 45.70): VW

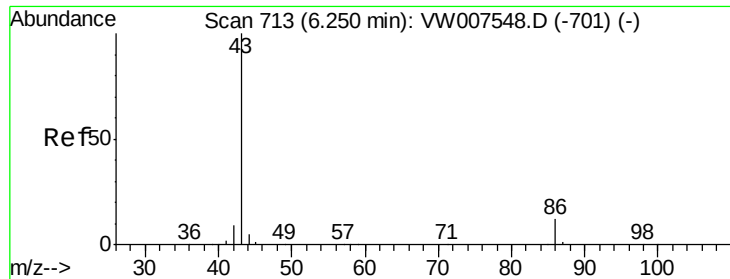
Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW







#23

Vinyl Acetate

Concen: 100.644 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 43 Resp: 123335

Ion Ratio Lower Upper

43 100

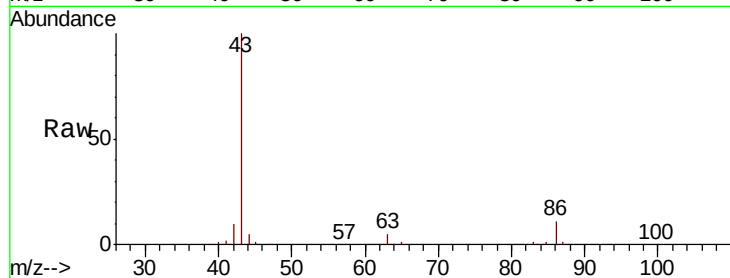
86 10.7 8.6 12.8

Manual Integrations

APPROVED

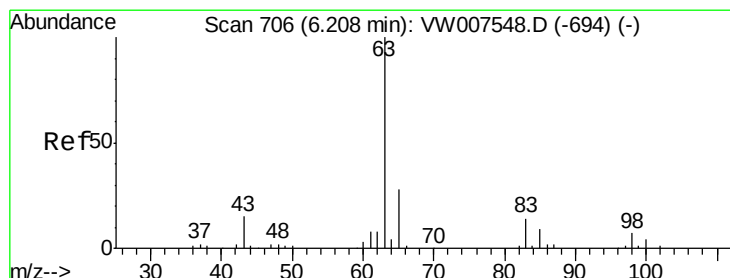
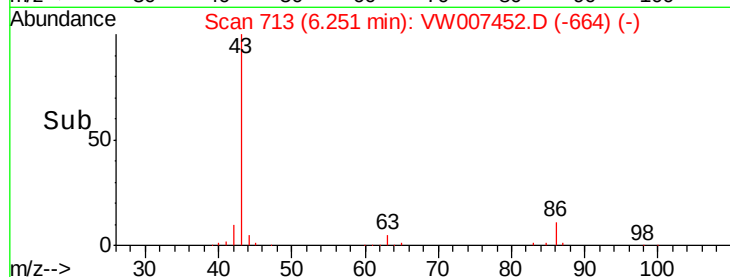
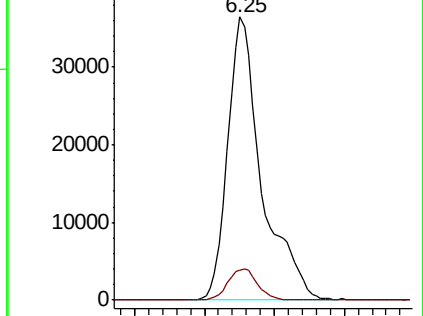
apatel

12/18/2018 10:55:53 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 20.457 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

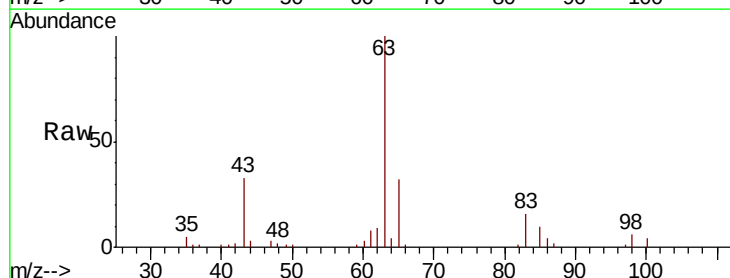
Tgt Ion: 63 Resp: 30292

Ion Ratio Lower Upper

63 100

98 5.6 3.5 10.4

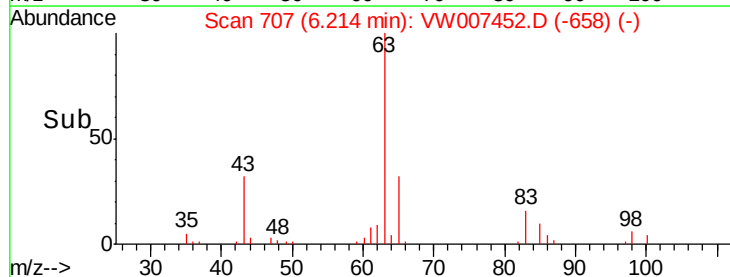
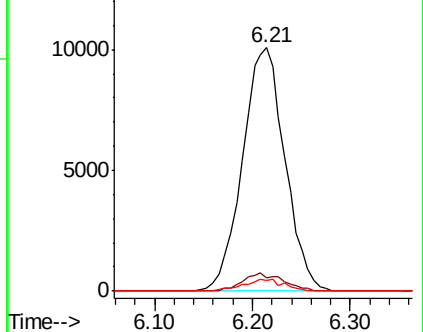
100 4.1 2.5 7.5

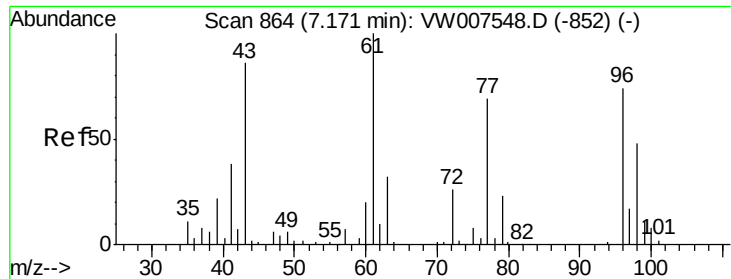


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 98.359 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 43 Resp: 19615

Ion Ratio Lower Upper

43 100

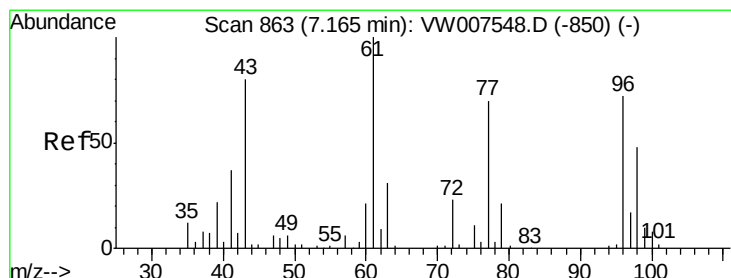
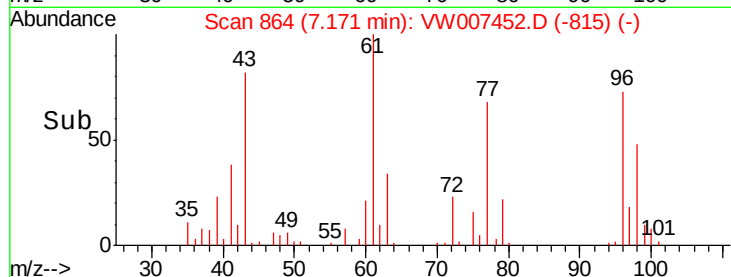
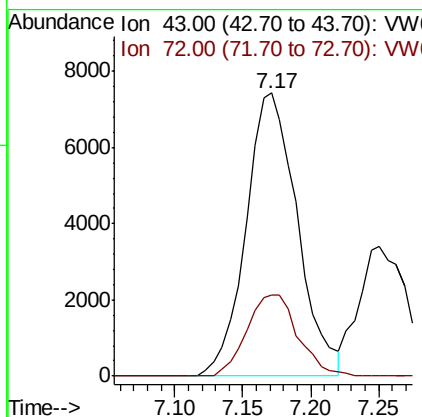
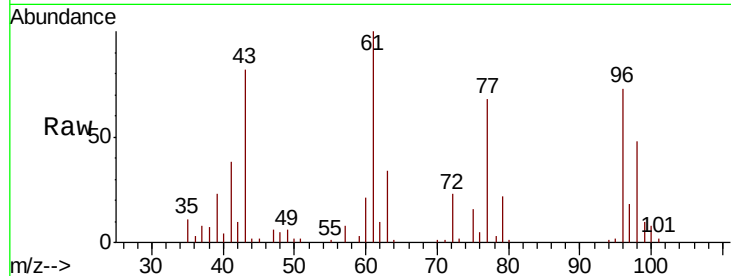
72 28.4 23.4 35.2

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



#26

2,2-Dichloropropane

Concen: 20.371 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW007452.D

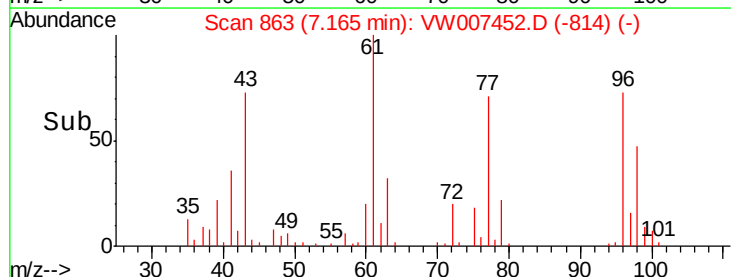
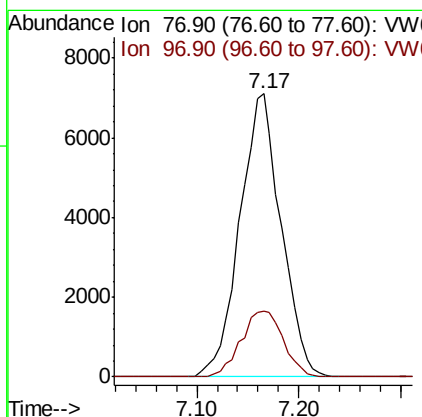
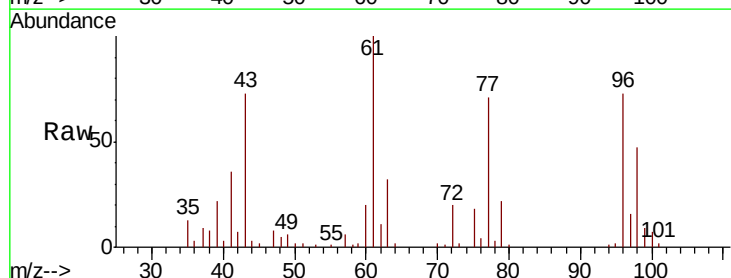
Acq: 12 Dec 2018 21:55

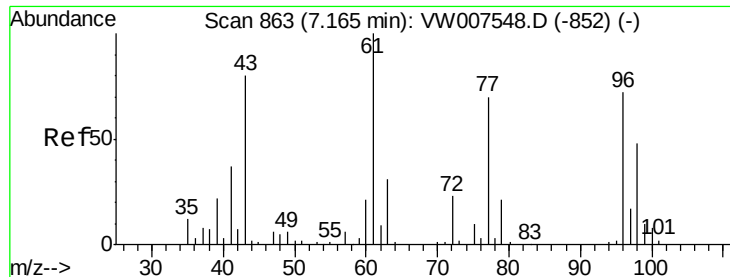
Tgt Ion: 77 Resp: 19963

Ion Ratio Lower Upper

77 100

97 23.7 11.6 34.8





#27

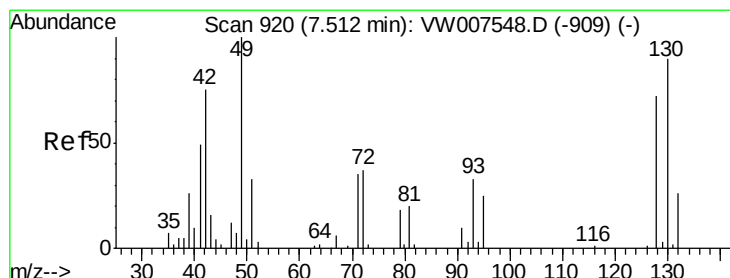
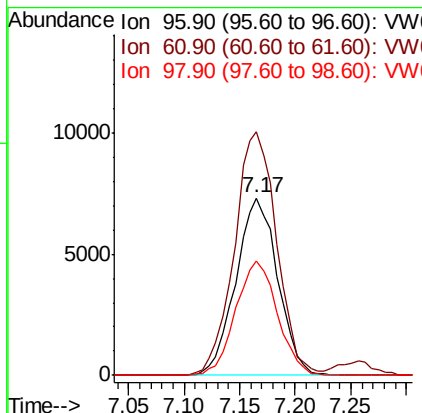
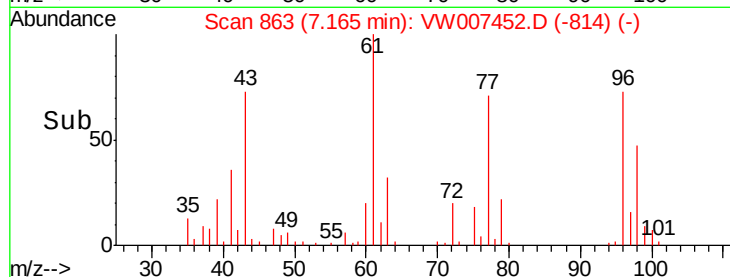
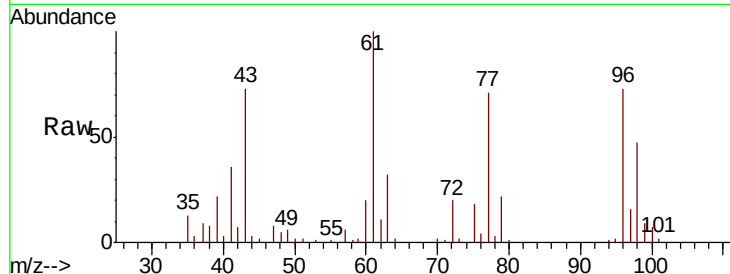
cis-1,2-Dichloroethene  
Concen: 20.219 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   | 19151 |       |       |
| 61      | 138.1 | 0.0   | 268.4 |       |
| 98      | 64.0  | 0.0   | 127.8 |       |

Manual Integrations  
APPROVED

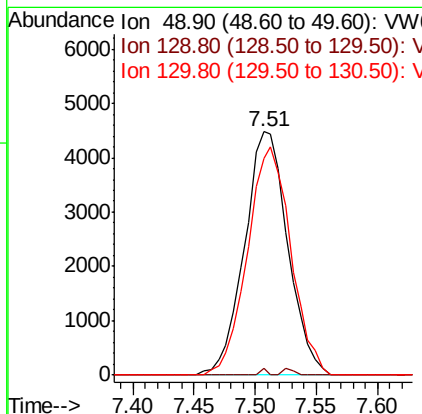
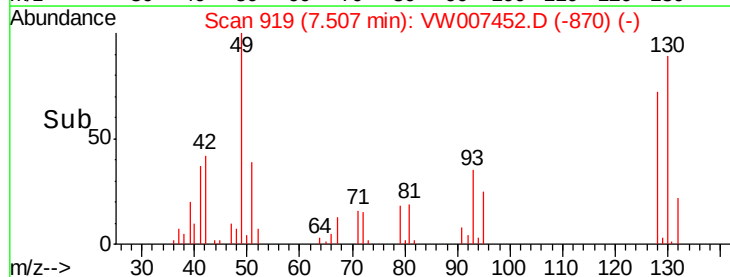
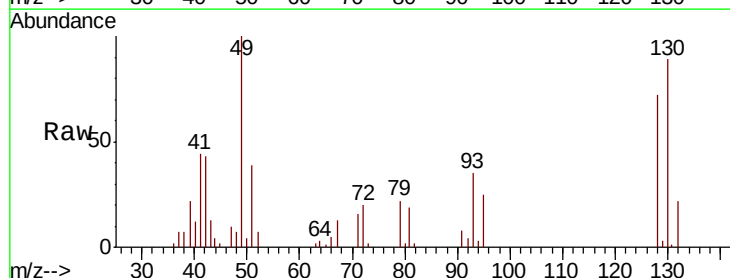
apatel  
12/18/2018 10:55:53 AM

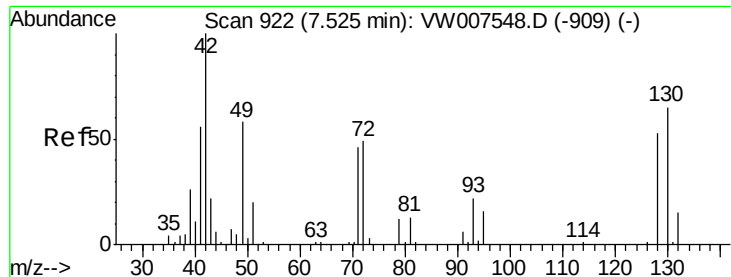


#28

Bromochloromethane  
Concen: 19.793 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 49      | 100   | 11024 |       |       |
| 129     | 0.4   | 0.0   | 2.6   |       |
| 130     | 94.0  | 75.9  | 113.9 |       |





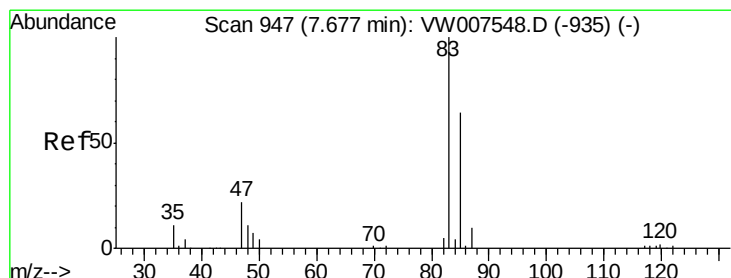
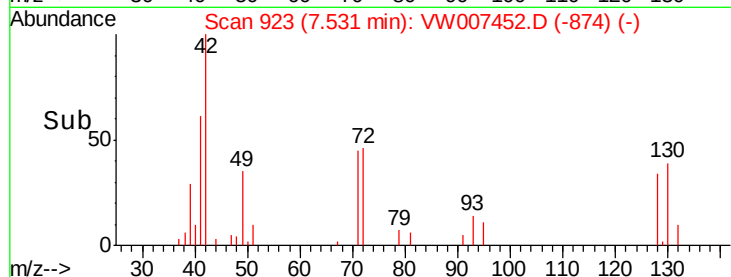
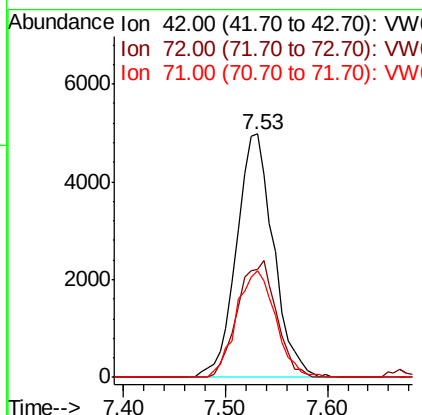
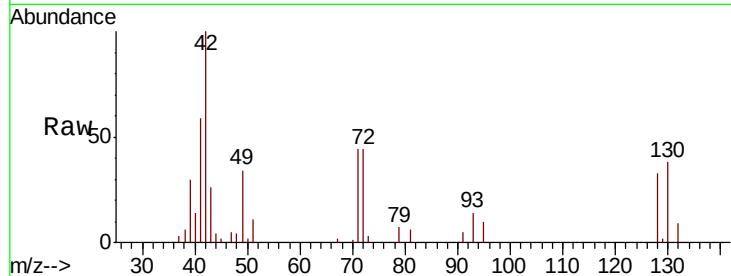
#29  
Tetrahydrofuran  
Concen: 99.091 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 50.1  | 38.2  | 57.4  |
| 71      | 46.6  | 35.5  | 53.3  |

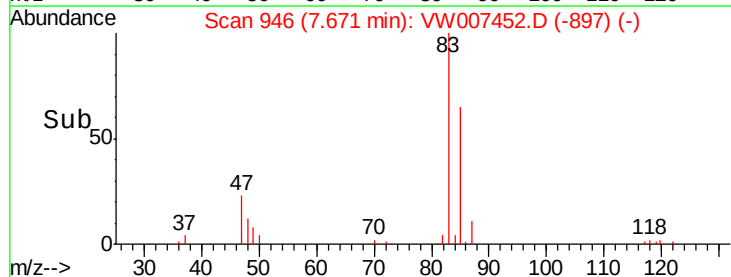
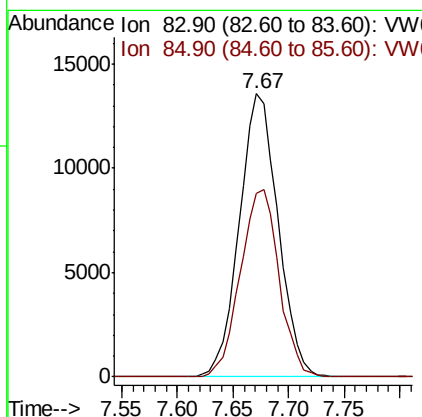
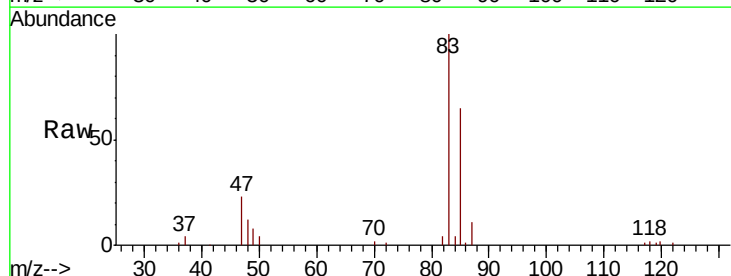
Manual Integrations  
APPROVED

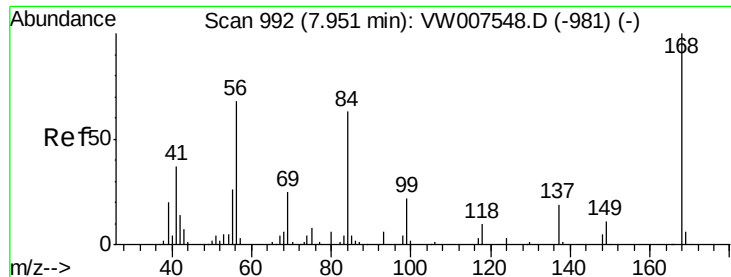
apatel  
12/18/2018 10:55:53 AM



#30  
Chloroform  
Concen: 20.339 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.0  | 51.8  | 77.8  |





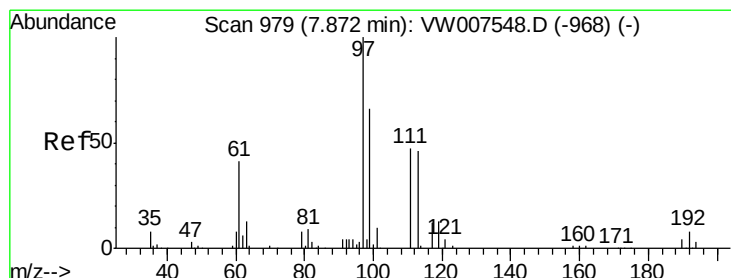
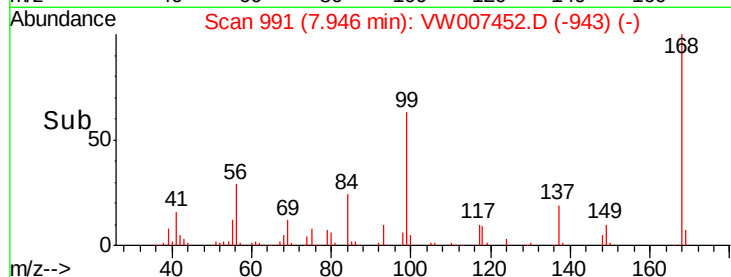
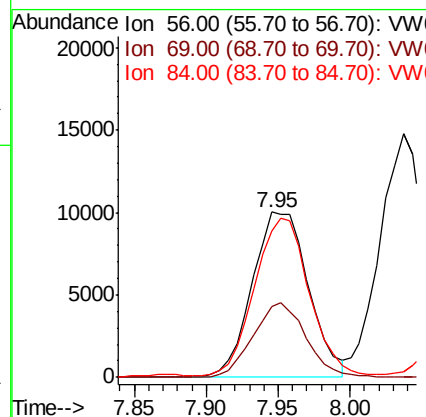
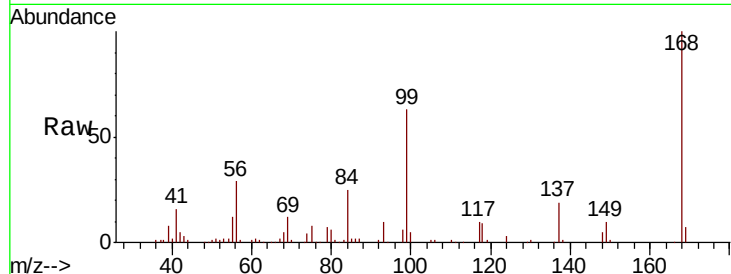
#31  
Cyclohexane  
Concen: 20.032 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 42.5  | 28.9  | 43.3  |
| 84      | 87.7  | 71.8  | 107.6 |

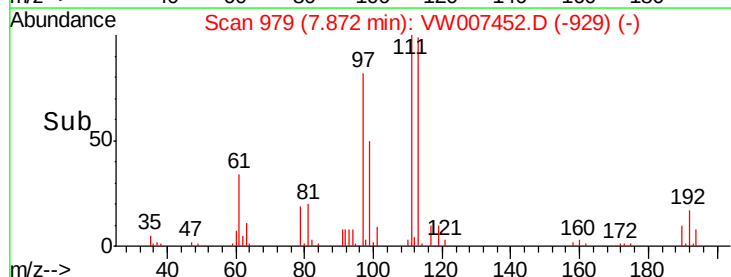
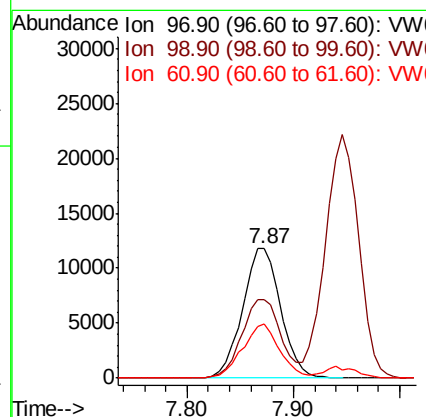
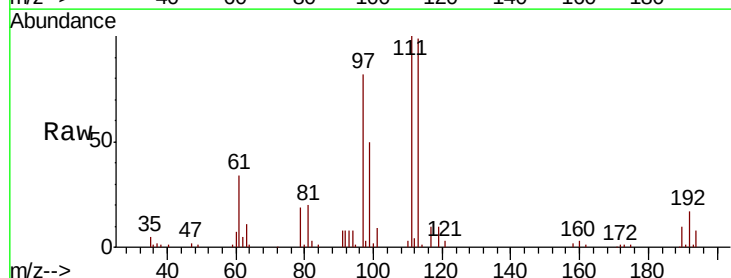
Manual Integrations  
APPROVED

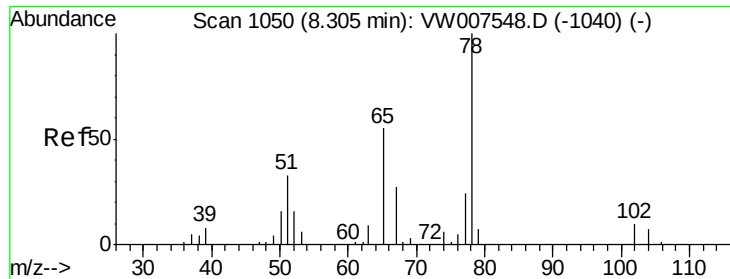
apatel  
12/18/2018 10:55:53 AM



#32  
1,1,1-Trichloroethane  
Concen: 20.943 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 61.6  | 51.1  | 76.7  |
| 61      | 40.7  | 33.2  | 49.8  |





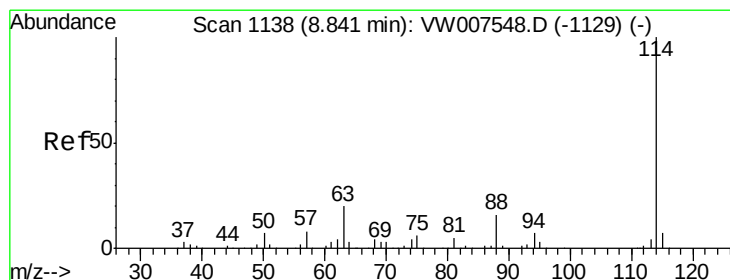
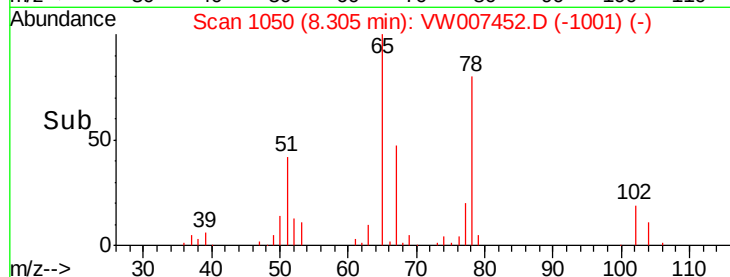
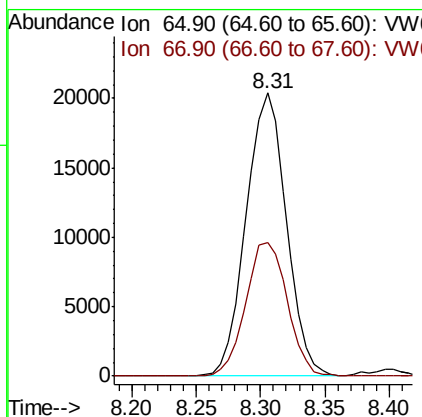
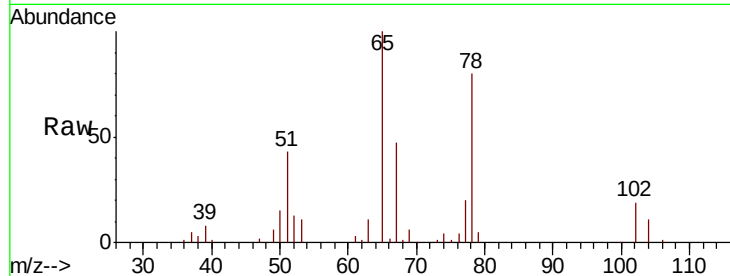
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.397 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBS01

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 65      | 100   | 44074 |       |       |
| 67      | 48.9  | 0.0   | 101.6 |       |

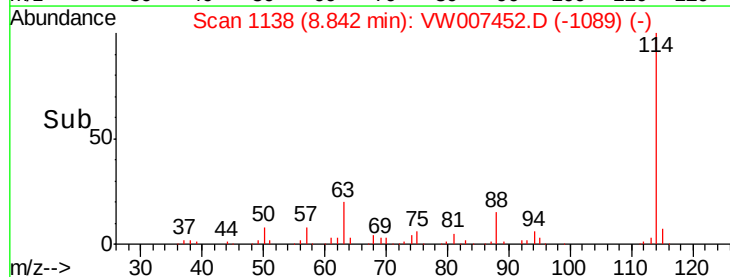
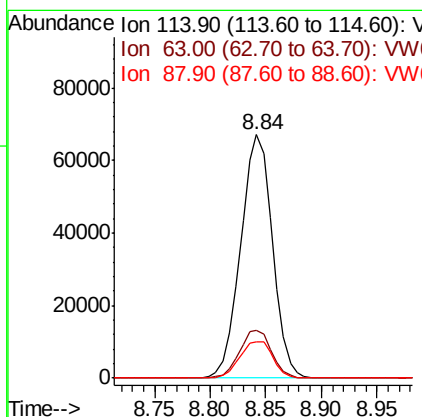
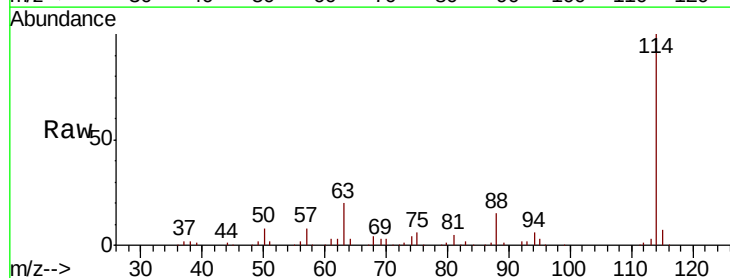
Manual Integrations  
 APPROVED

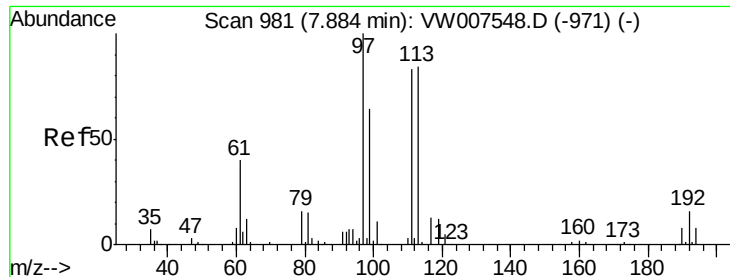
apatel  
 12/18/2018 10:55:53 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 132855 |       |       |
| 63      | 19.7  | 0.0    | 39.6  |       |
| 88      | 14.8  | 0.0    | 31.4  |       |





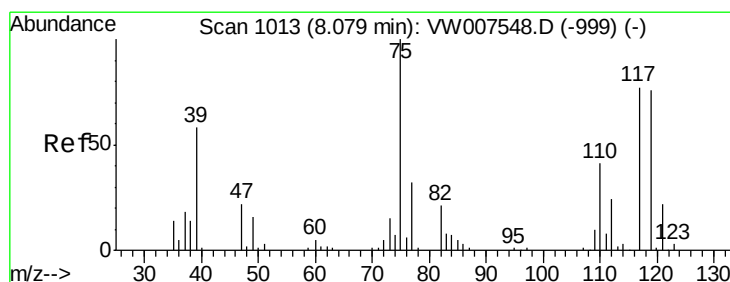
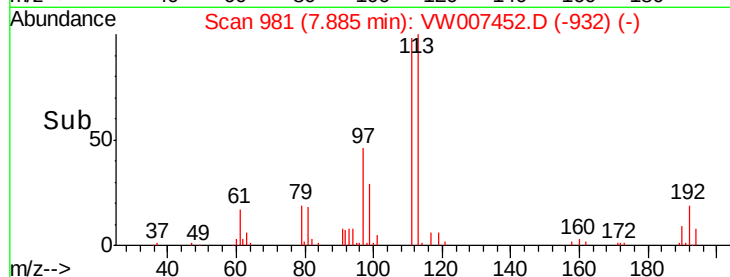
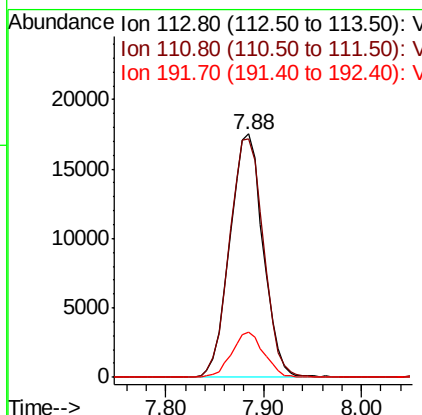
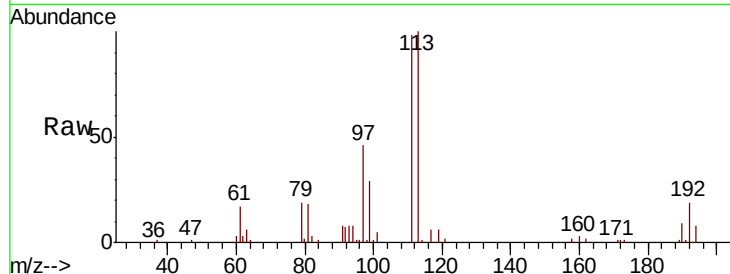
#35  
 Dibromofluoromethane  
 Concen: 51.324 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.8 | 81.1  | 121.7 |
| 192     | 18.0  | 14.6  | 21.8  |

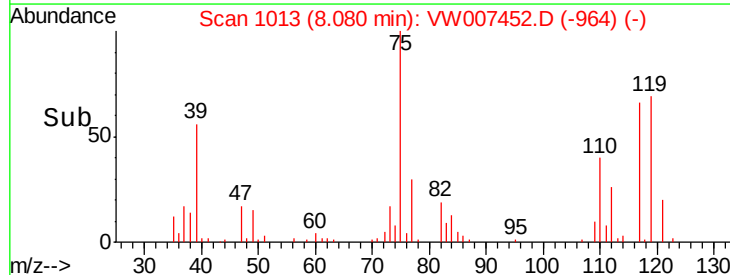
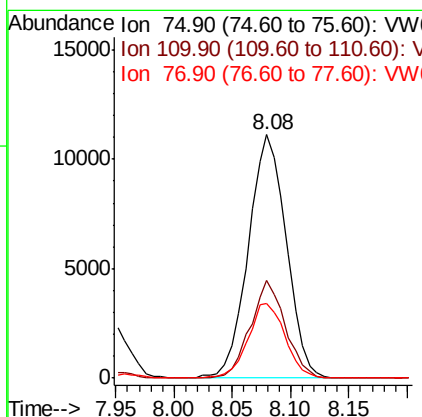
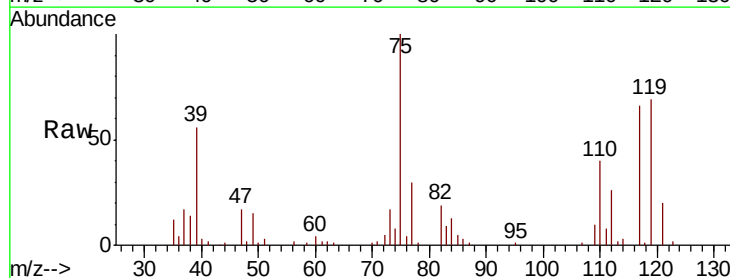
Manual Integrations  
 APPROVED

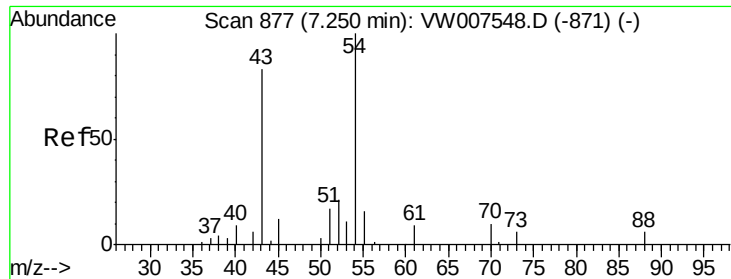
apatel  
 12/18/2018 10:55:53 AM



#36  
 1,1-Dichloropropene  
 Concen: 20.729 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 36.8  | 18.5  | 55.5  |
| 77      | 30.0  | 25.6  | 38.4  |





#37

Ethyl Acetate

Concen: 19.489 ug/l

RT: 7.25 min Scan# 877

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 8785  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 15.7  | 12.1  | 18.1  |
| 70       | 10.8  | 10.0  | 15.0  |

Instrument :

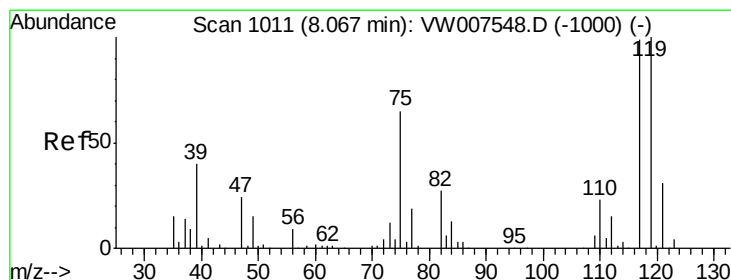
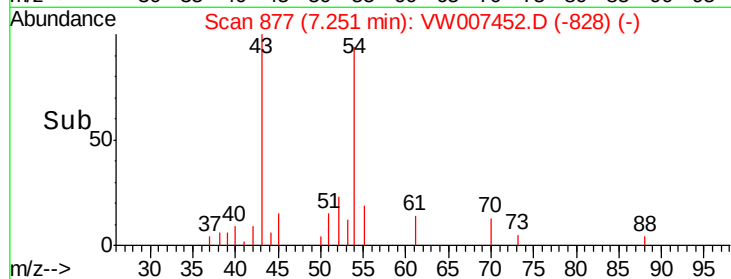
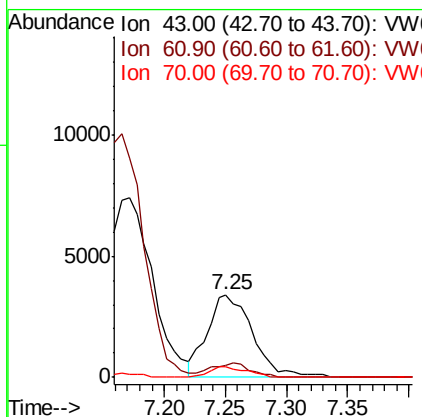
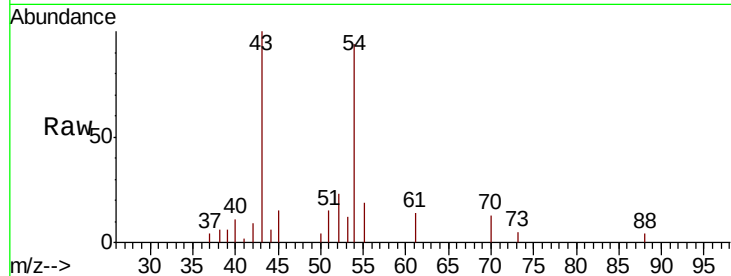
MSVOA\_W

ClientSampleId :

VW1215SBS01

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM



#38

Carbon Tetrachloride

Concen: 21.111 ug/l

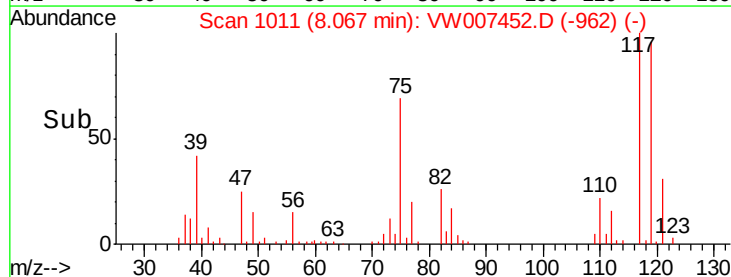
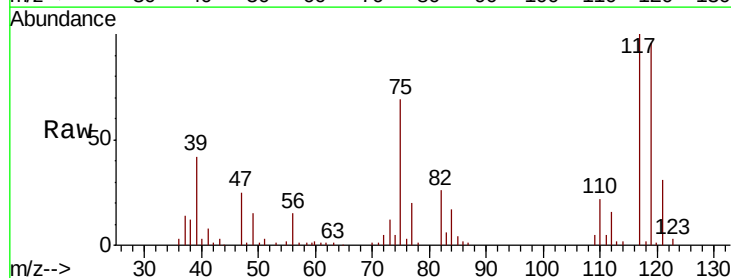
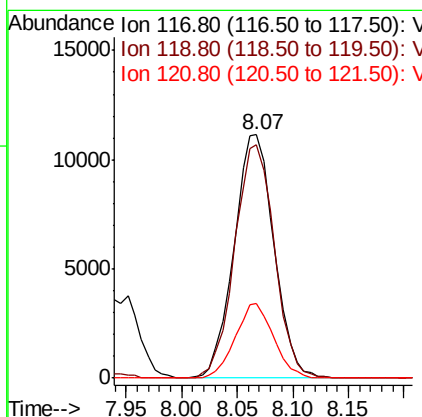
RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

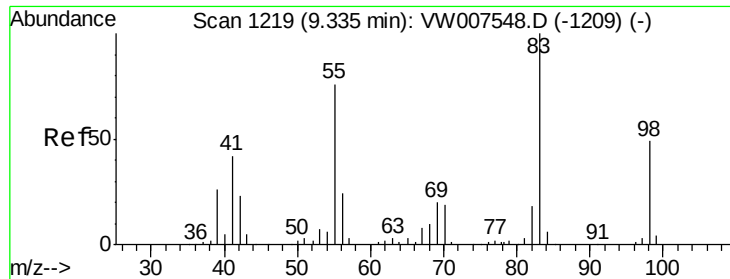
Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 27839 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 96.0  | 74.3  | 111.5 |
| 121      | 30.9  | 24.3  | 36.5  |







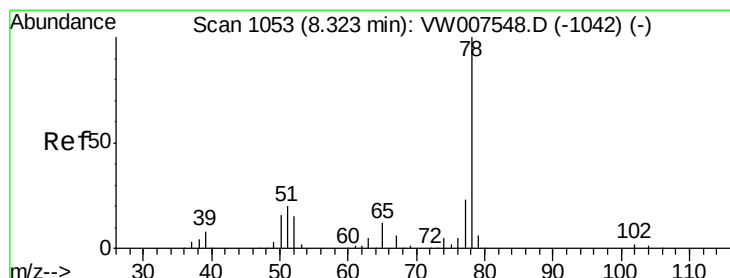
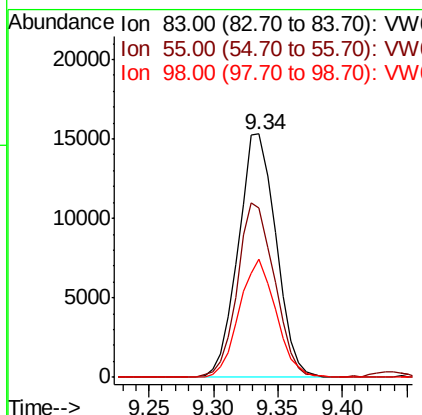
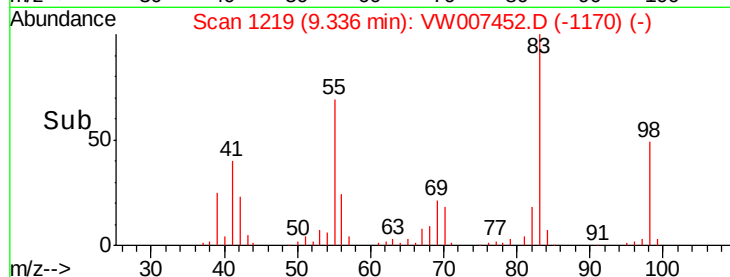
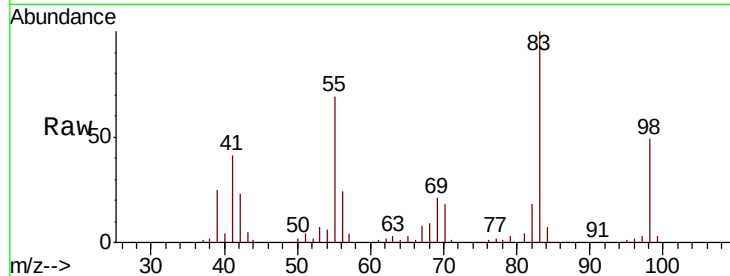
#39  
Methylvlcyclohexane  
Concen: 21.250 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 69.5  | 62.8  | 94.2  |
| 98      | 48.5  | 42.2  | 63.2  |

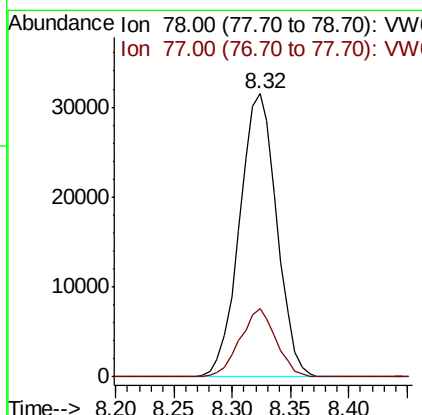
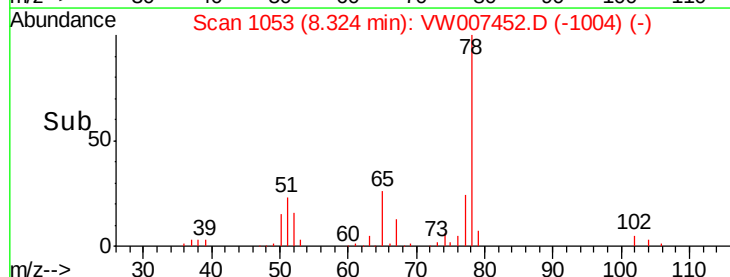
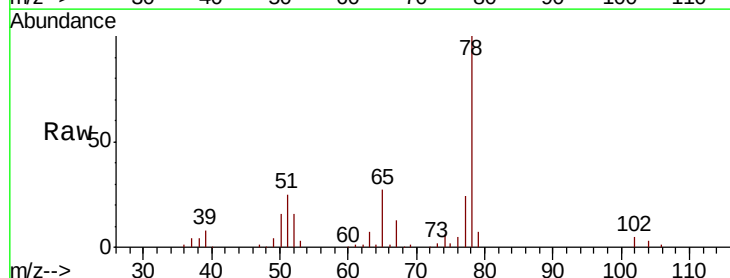
Manual Integrations  
APPROVED

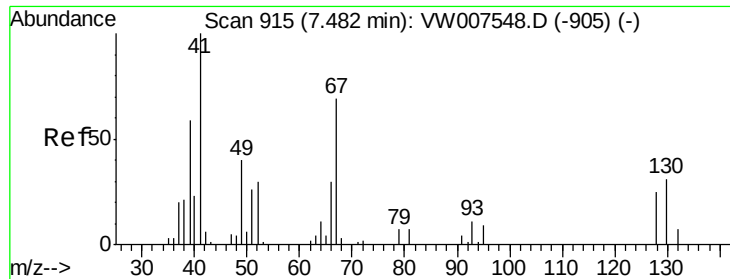
apatel  
12/18/2018 10:55:53 AM



#40  
Benzene  
Concen: 20.798 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.3  | 18.8  | 28.2  |





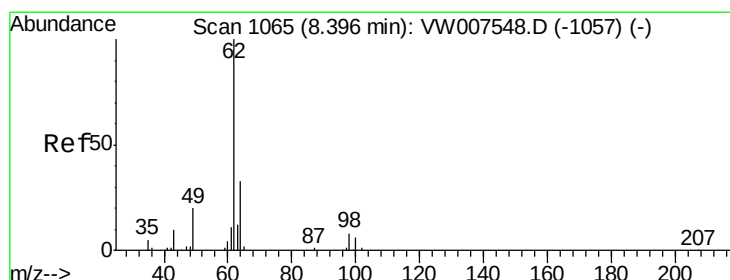
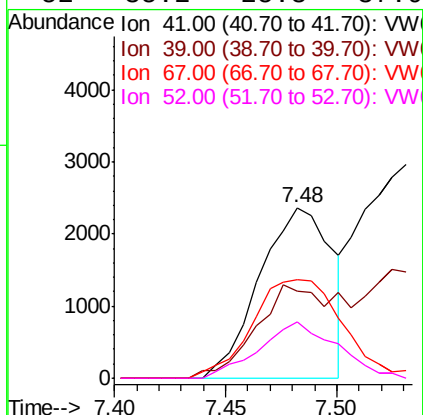
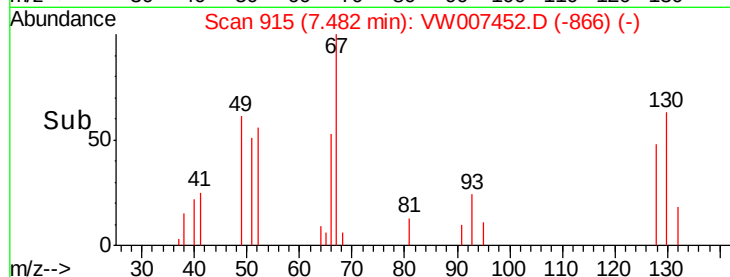
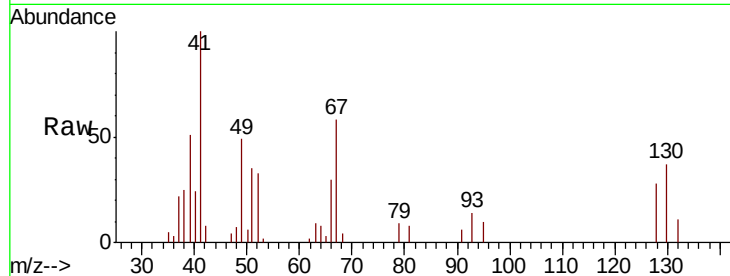
#41  
Methacrylonitrile  
Concen: 20.885 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 5361  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 49.2  | 52.2  | 78.2# |
| 67       | 71.6  | 60.5  | 90.7  |
| 52       | 35.2  | 25.3  | 37.9  |

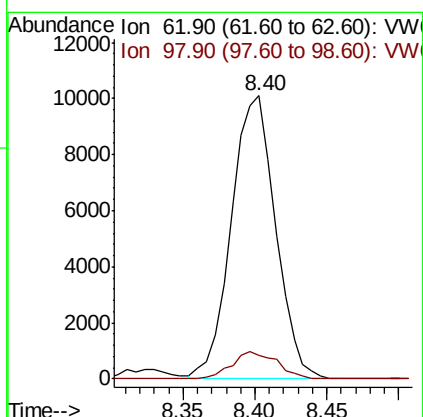
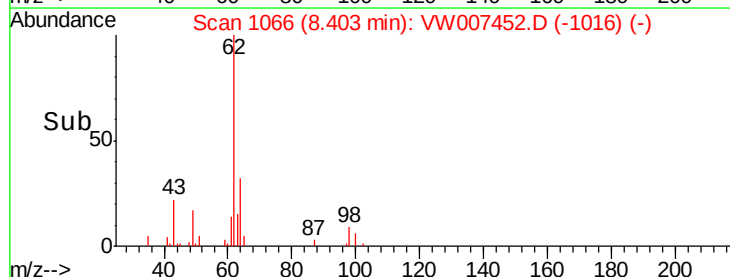
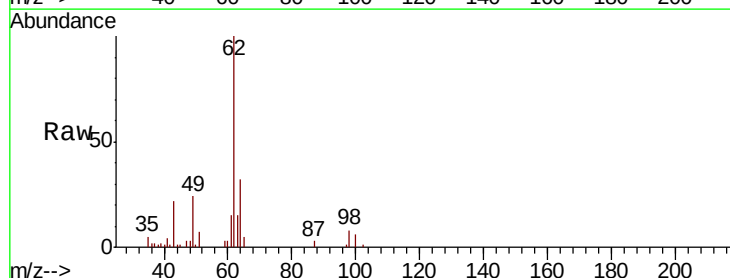
Manual Integrations  
APPROVED

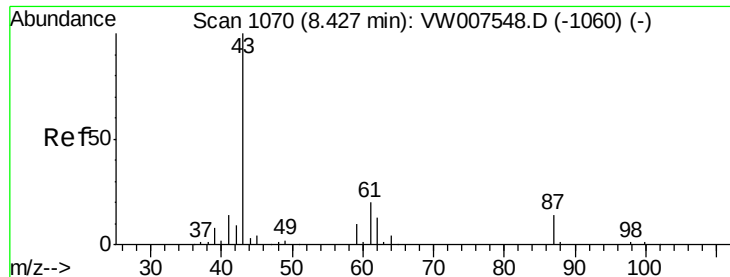
apatel  
12/18/2018 10:55:53 AM



#42  
1,2-Dichloroethane  
Concen: 20.441 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 21597 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.8   | 0.0   | 17.6  |





#43

Isopropyl Acetate

Concen: 19.898 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

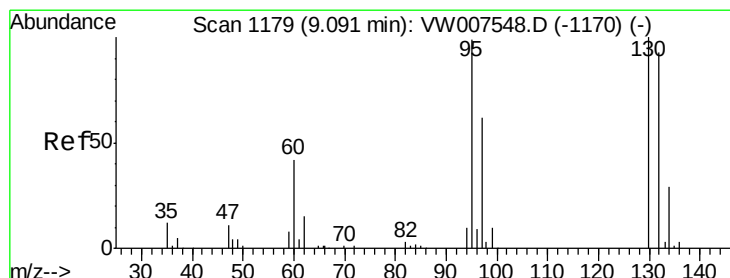
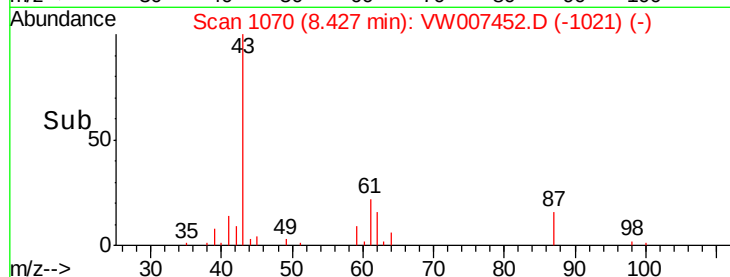
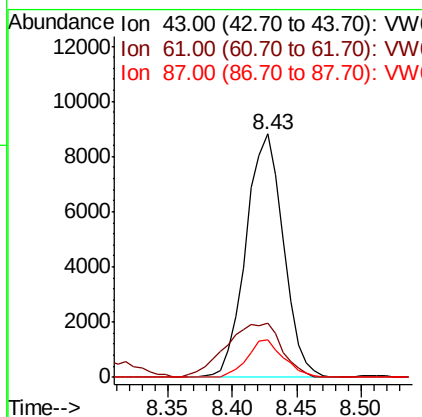
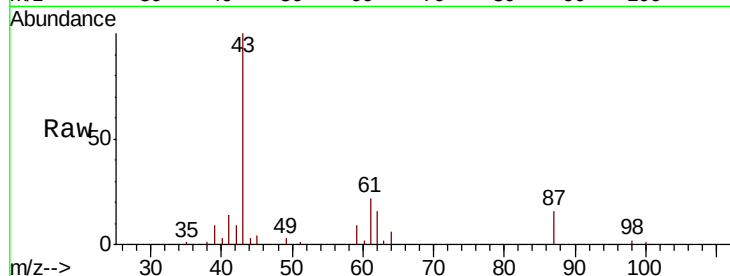
ClientSampleId :

VW1215SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 17717 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 33.3  | 25.3  | 37.9  |
| 87       | 14.9  | 11.8  | 17.8  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM



#44

Trichloroethene

Concen: 20.812 ug/l

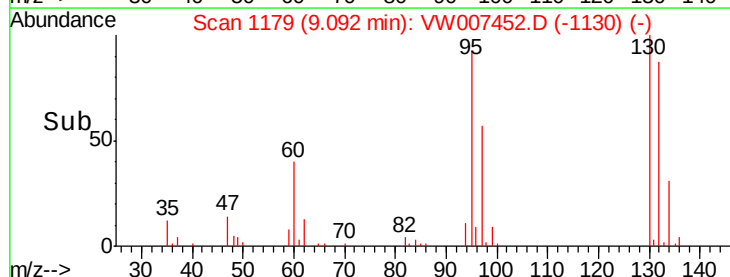
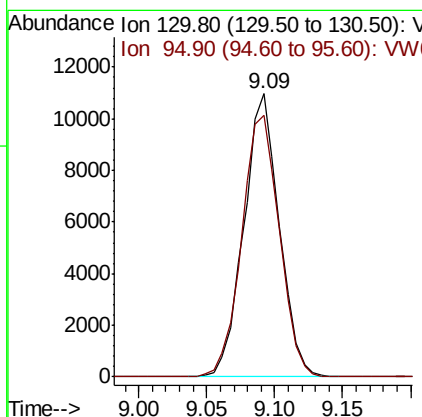
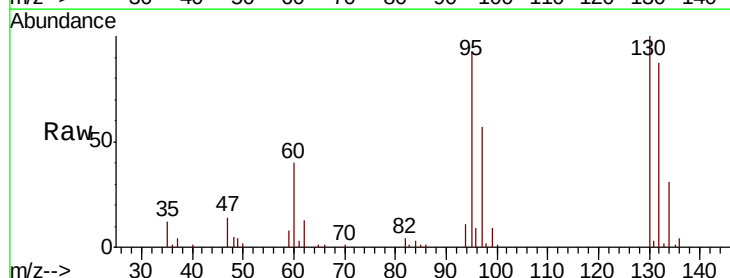
RT: 9.09 min Scan# 1179

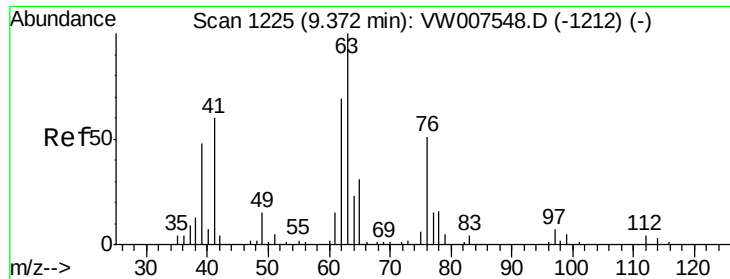
Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 19989 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 92.6  | 0.0   | 193.2 |





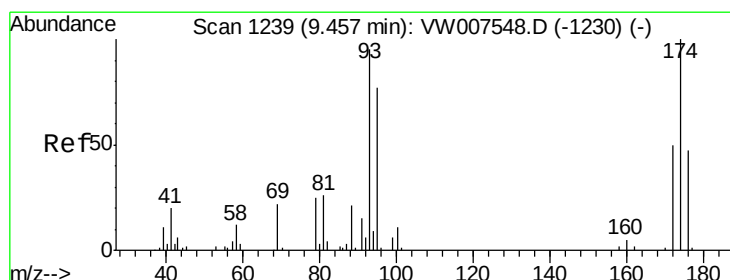
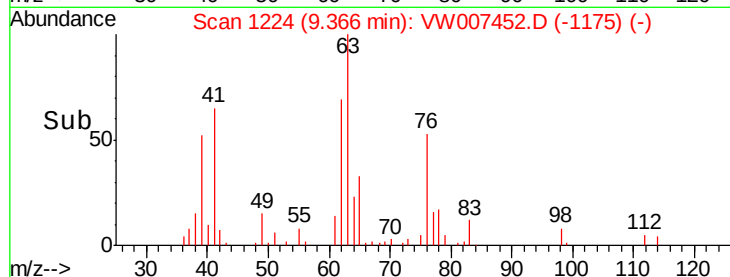
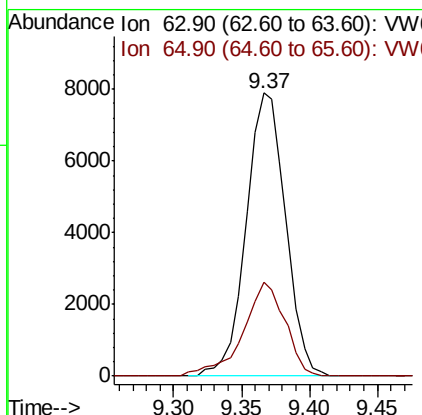
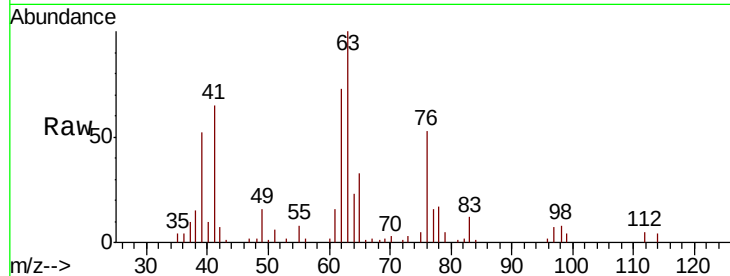
#45  
 1,2-Dichloropropane  
 Concen: 20.574 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBS01

Tot Ion: 63 Resp: 16013  
 Ion Ratio Lower Upper  
 63 100  
 65 33.4 24.4 36.6

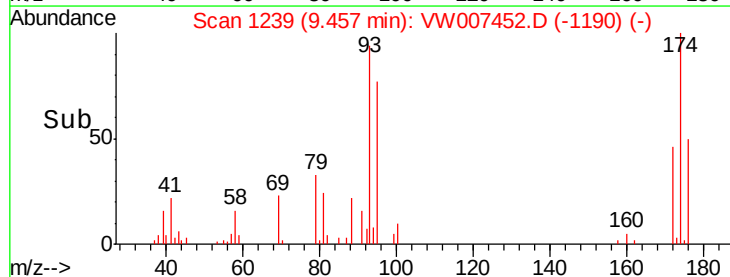
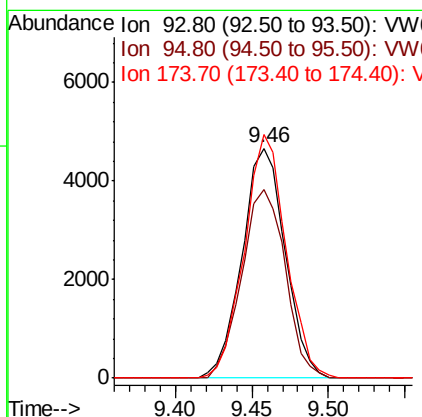
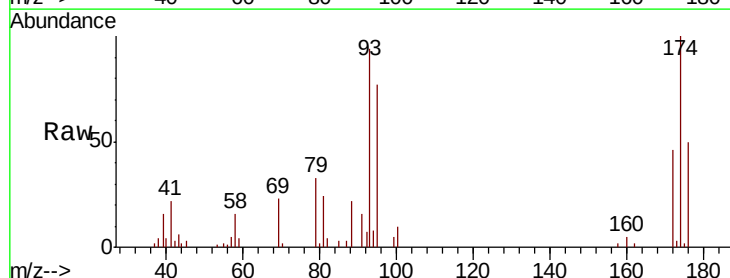
Manual Integrations  
 APPROVED

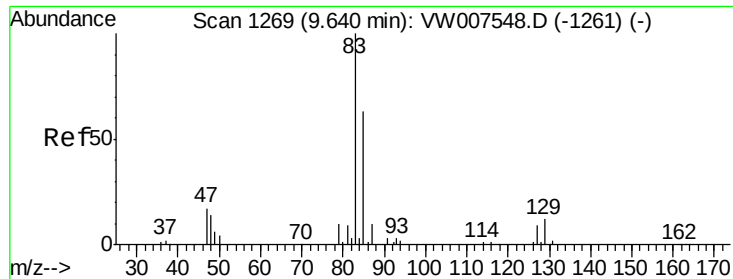
apatel  
 12/18/2018 10:55:53 AM



#46  
 Dibromomethane  
 Concen: 20.683 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Tgt Ion: 93 Resp: 9142  
 Ion Ratio Lower Upper  
 93 100  
 95 82.8 68.0 102.0  
 174 102.7 83.2 124.8





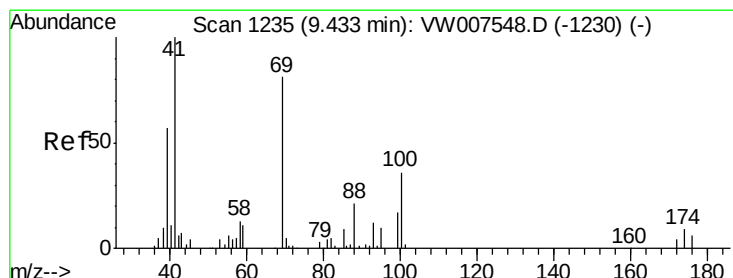
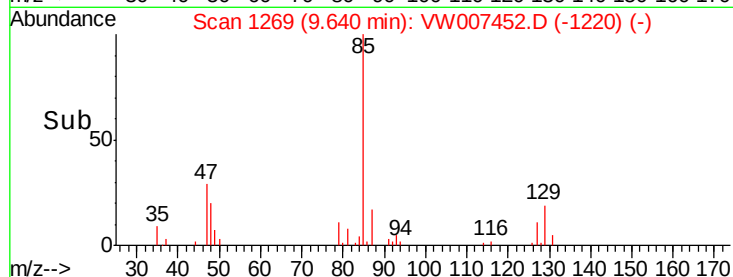
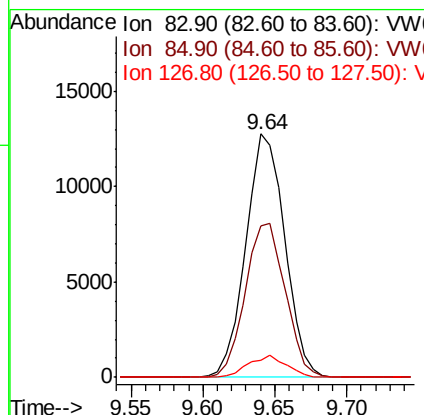
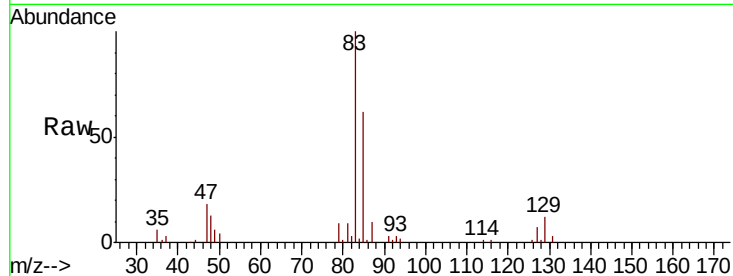
#47  
Bromodichloromethane  
Concen: 20.640 ug/l  
RT: 9.64 min Scan# 1269  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 85      | 62.0  | 47.6 | 71.4  |       |
| 127     | 7.0   | 6.7  | 10.1  |       |

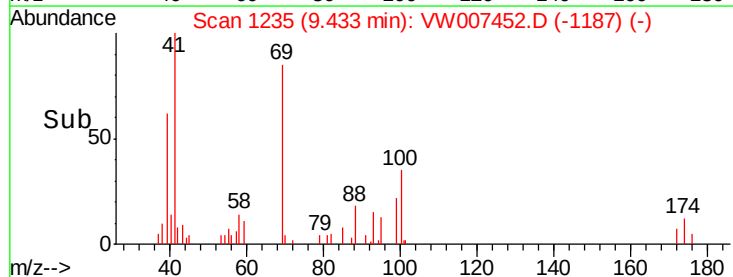
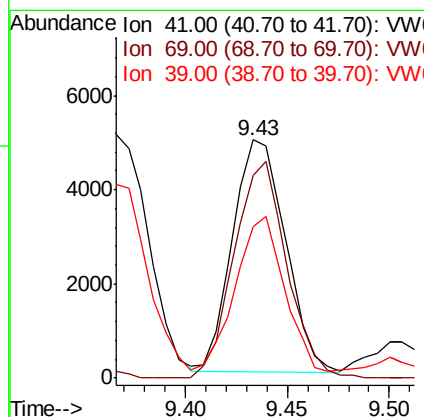
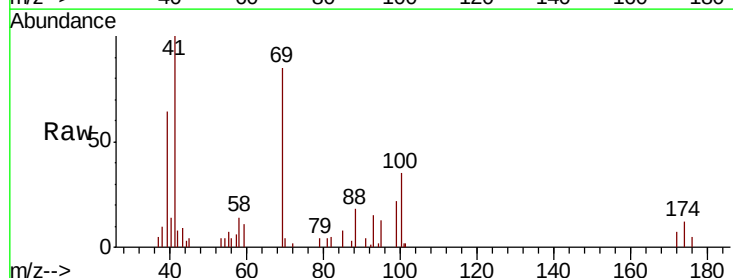
Manual Integrations  
APPROVED

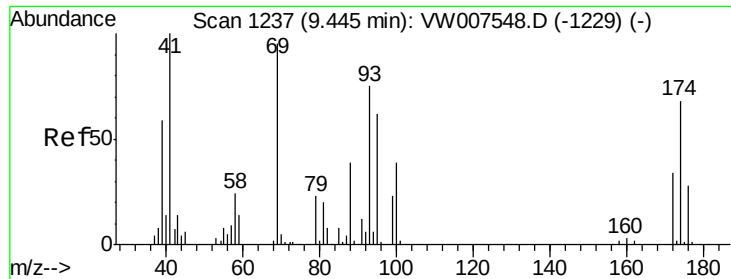
apatel  
12/18/2018 10:55:53 AM



#48  
Methyl methacrylate  
Concen: 19.412 ug/l  
RT: 9.43 min Scan# 1235  
Delta R.T. -0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 41      | 100   |      |       |       |
| 69      | 93.4  | 69.8 | 104.8 |       |
| 39      | 67.8  | 50.9 | 76.3  |       |





#49

1,4-Dioxane

Concen: 414.823 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 88 Resp: 2975

Ion Ratio Lower Upper

88 100

43 32.7 25.0 37.4

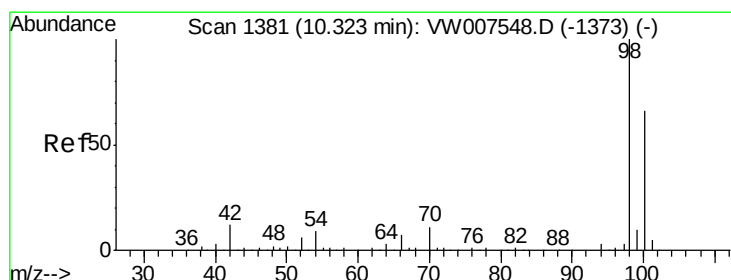
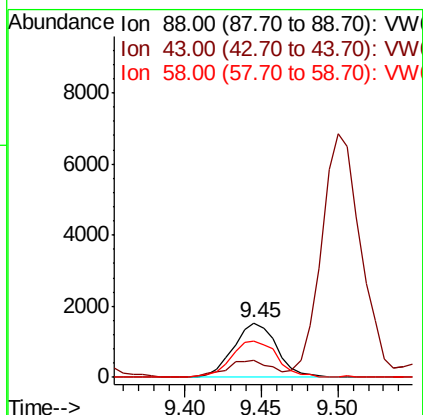
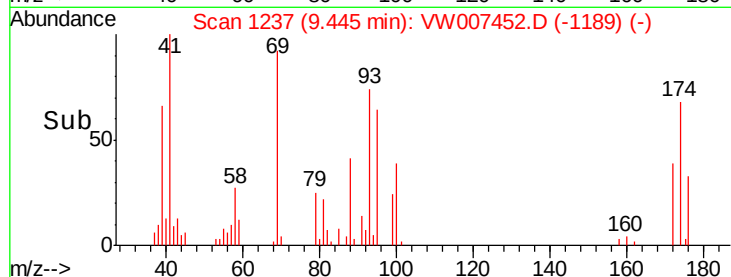
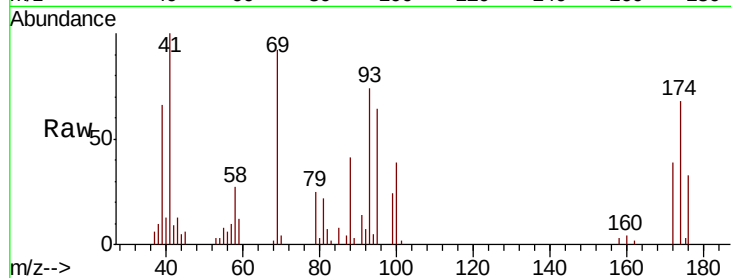
58 72.2 51.4 77.2

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



#50

Toluene-d8

Concen: 51.863 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007452.D

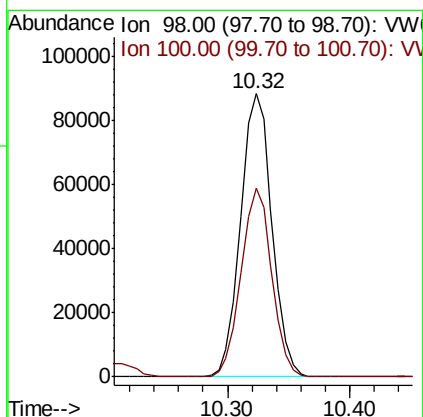
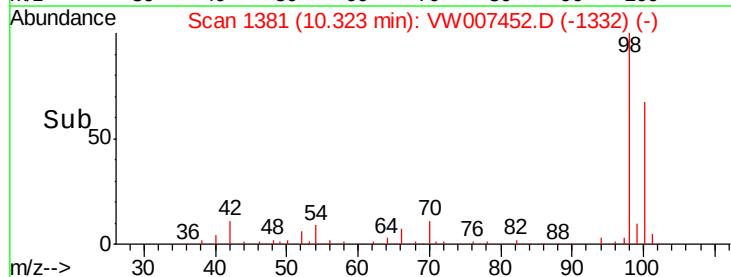
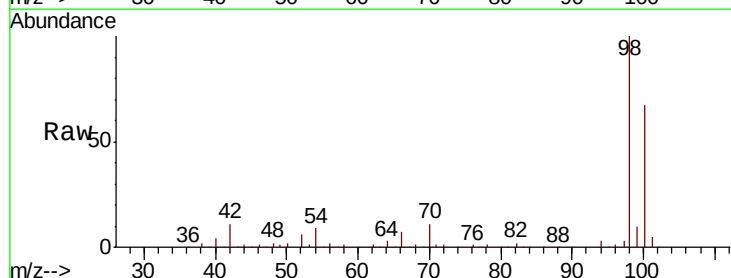
Acq: 12 Dec 2018 21:55

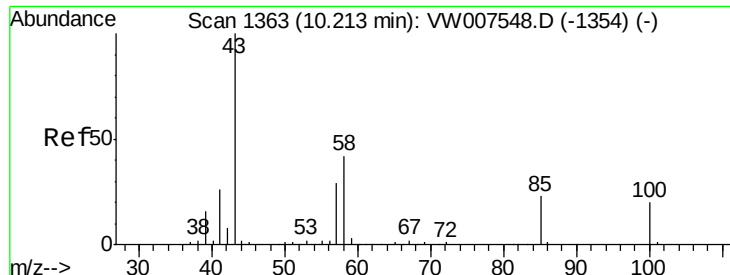
Tgt Ion: 98 Resp: 156387

Ion Ratio Lower Upper

98 100

100 65.3 51.8 77.8





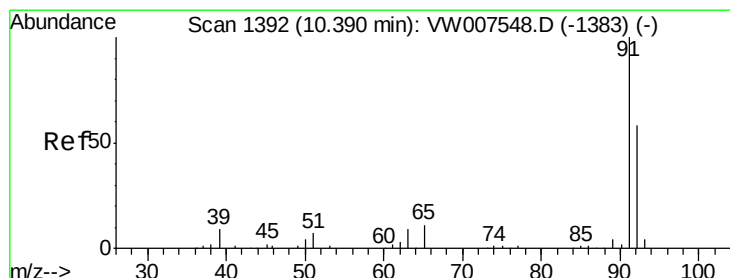
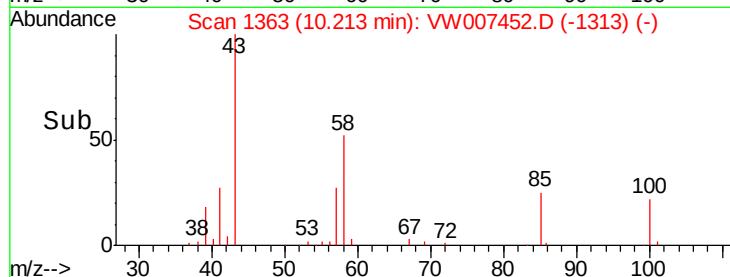
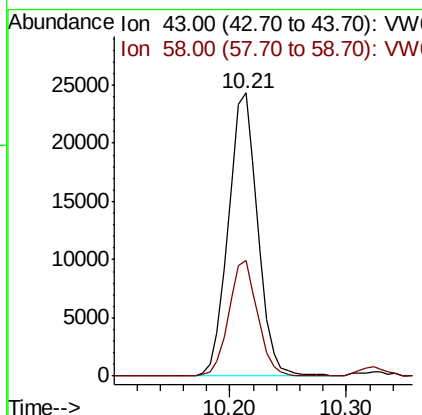
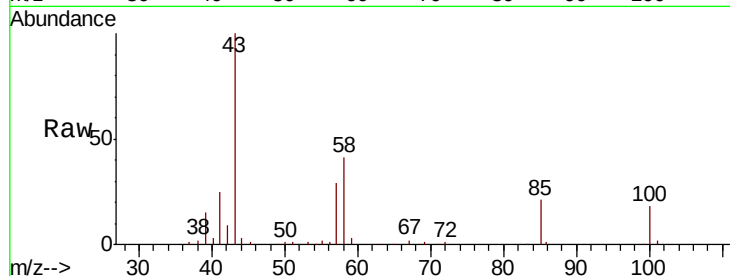
#51  
4-Methyl-2-Pentanone  
Concen: 101.556 ug/l  
RT: 10.21 min Scan# 1363  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

Tot Ion: 43 Resp: 42726  
Ion Ratio Lower Upper  
43 100  
58 40.0 33.1 49.7

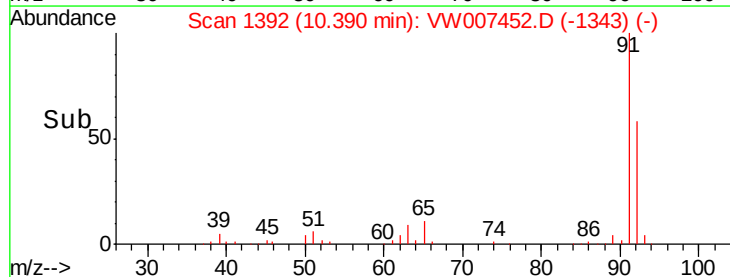
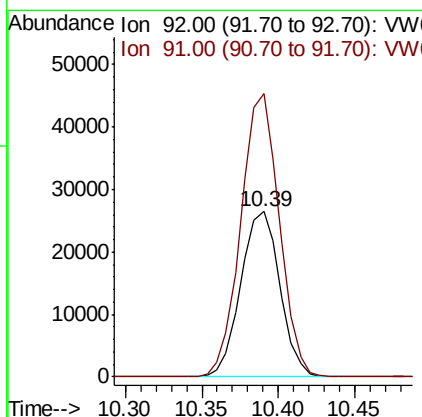
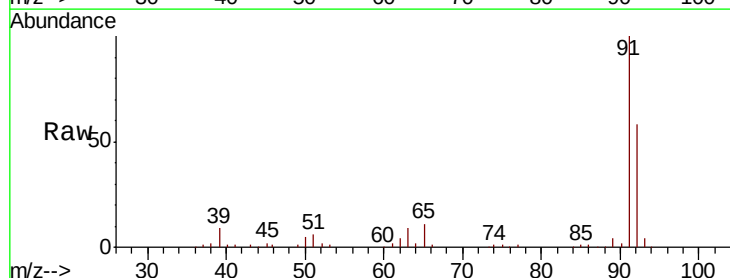
Manual Integrations  
APPROVED

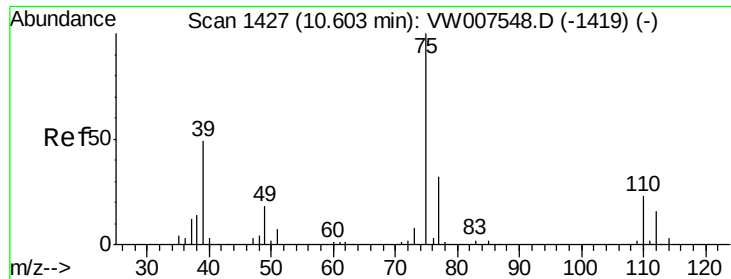
apatel  
12/18/2018 10:55:53 AM



#52  
Toluene  
Concen: 21.607 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Tgt Ion: 92 Resp: 47030  
Ion Ratio Lower Upper  
92 100  
91 168.5 136.2 204.2





#53

t-1,3-Dichloropropene

Concen: 21.173 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 75 Resp: 23831

Ion Ratio Lower Upper

75 100

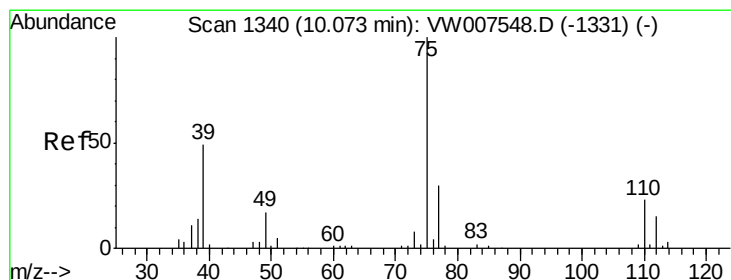
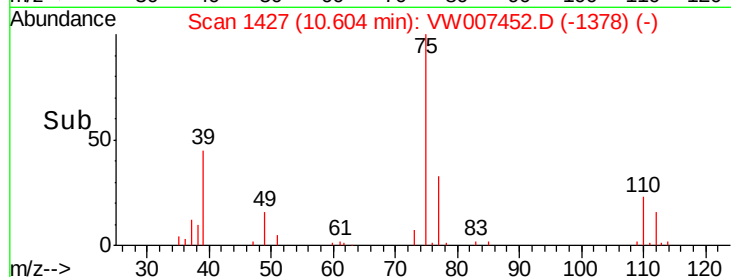
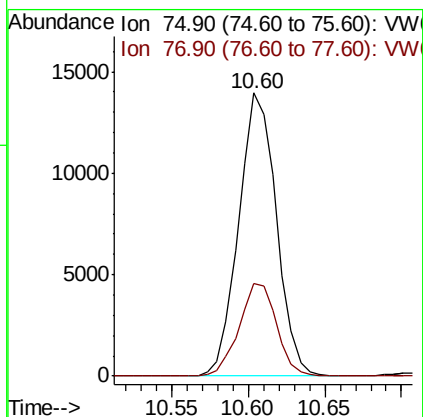
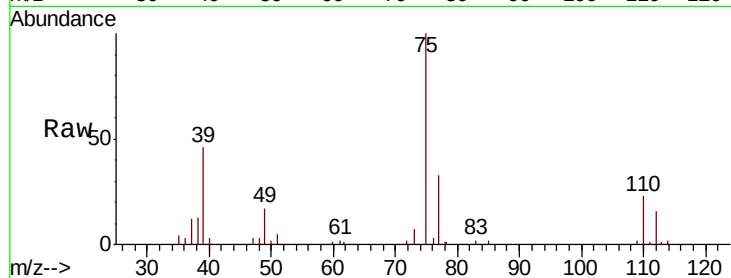
77 32.8 26.2 39.4

Manual Integrations

APPROVED

apatel

12/18/2018 10:55:53 AM



#54

cis-1,3-Dichloropropene

Concen: 20.507 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

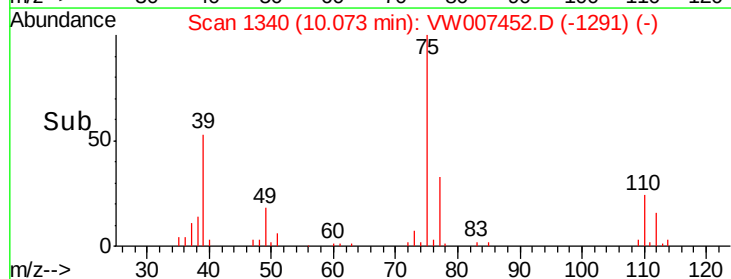
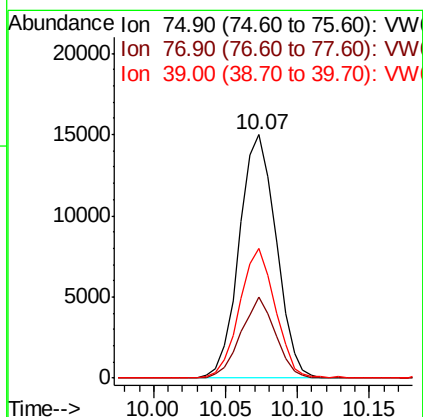
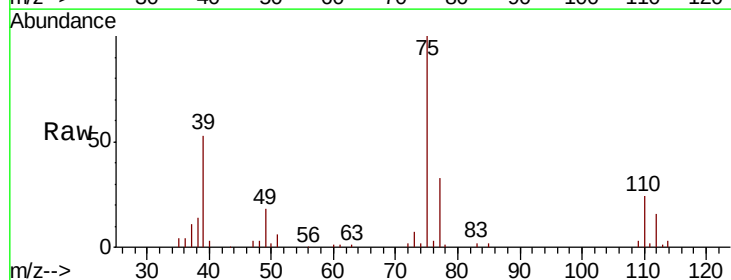
Tgt Ion: 75 Resp: 26683

Ion Ratio Lower Upper

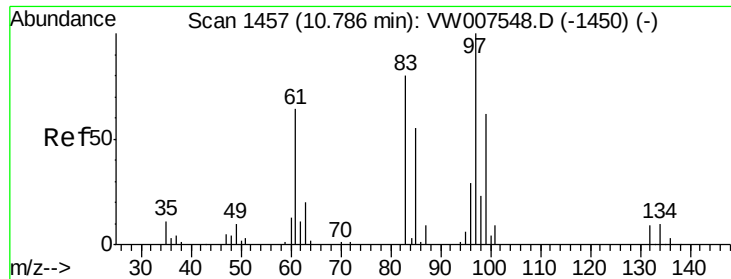
75 100

77 33.2 24.8 37.2

39 53.4 40.9 61.3







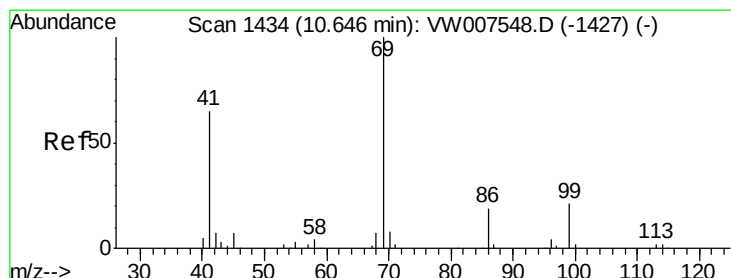
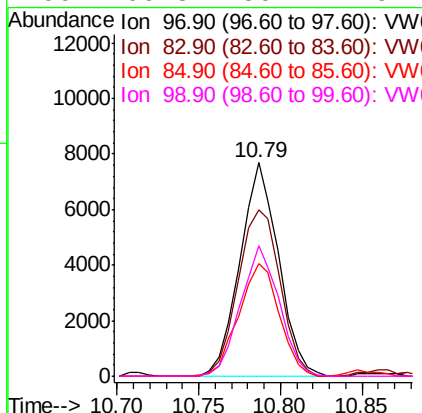
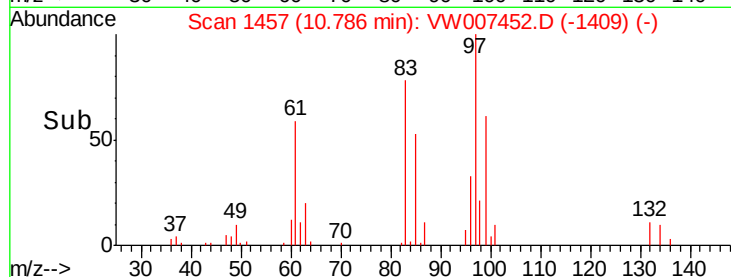
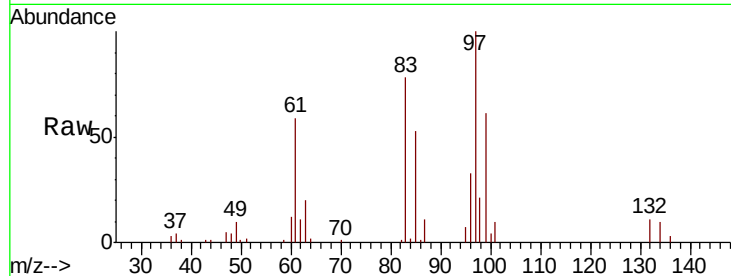
#55  
 1,1,2-Trichloroethane  
 Concen: 21.113 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 77.9  | 62.1  | 93.1  |
| 85      | 53.0  | 44.2  | 66.4  |
| 99      | 60.8  | 50.2  | 75.4  |

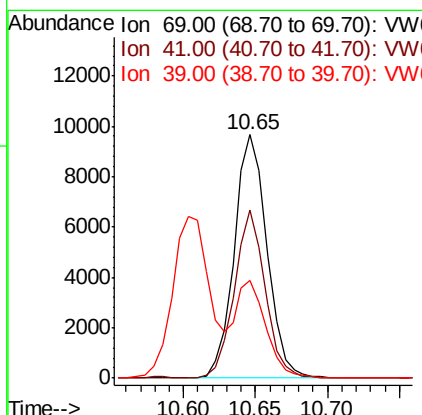
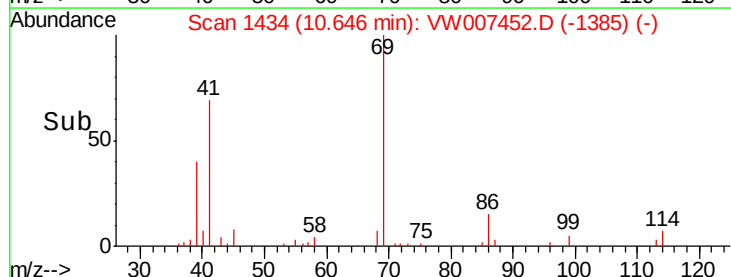
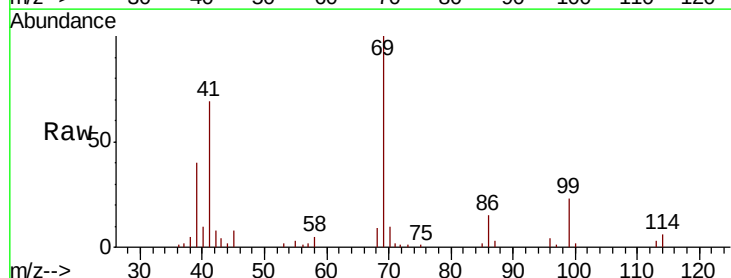
Manual Integrations  
 APPROVED

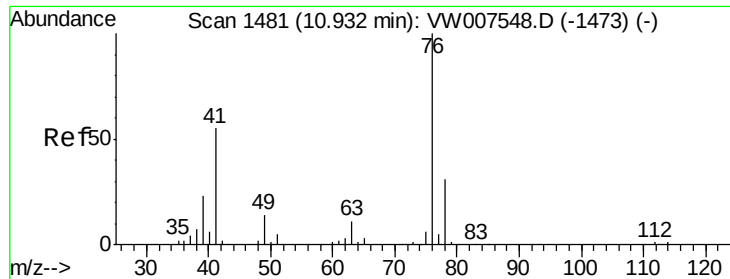
apatel  
 12/18/2018 10:55:53 AM



#56  
 Ethyl methacrylate  
 Concen: 21.106 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 65.2  | 51.0  | 76.6  |
| 39      | 38.3  | 30.8  | 46.2  |





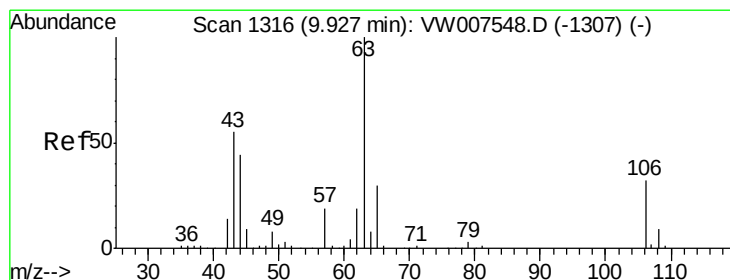
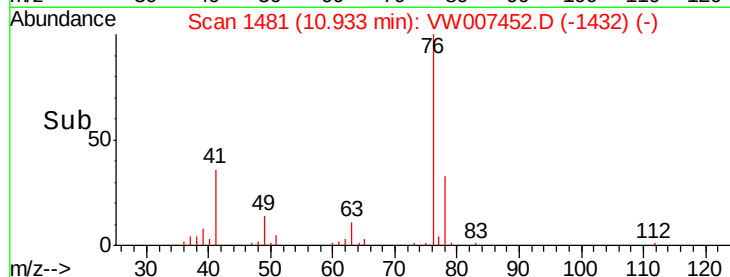
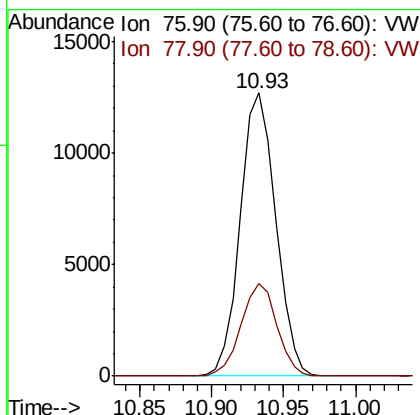
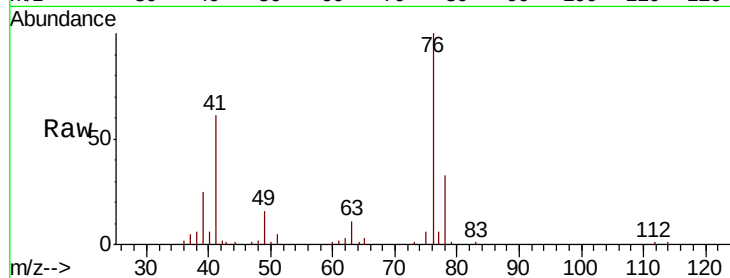
#57  
 1,3-Dichloropropane  
 Concen: 22.018 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBSD01

Tot Ion: 76 Resp: 21740  
 Ion Ratio Lower Upper  
 76 100  
 78 32.9 26.2 39.4

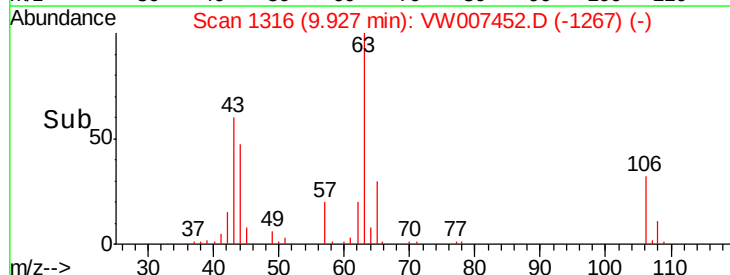
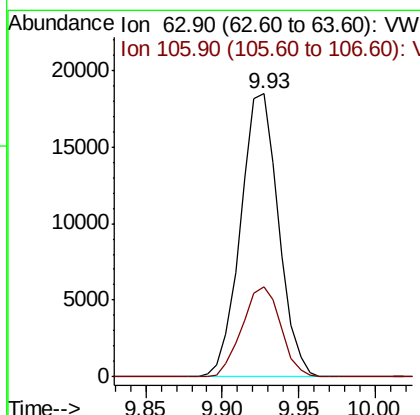
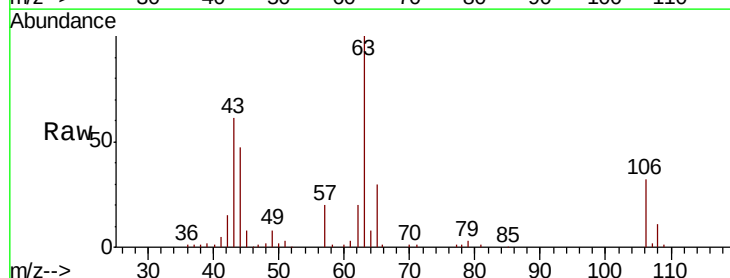
Manual Integrations  
 APPROVED

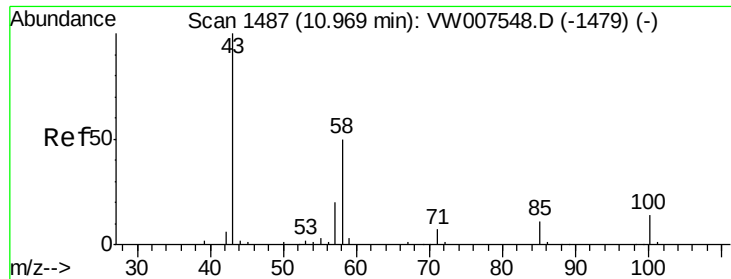
apatel  
 12/18/2018 10:55:53 AM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 95.467 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Tgt Ion: 63 Resp: 31832  
 Ion Ratio Lower Upper  
 63 100  
 106 32.5 25.0 37.6





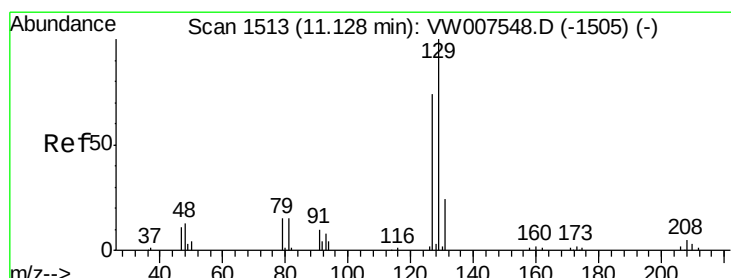
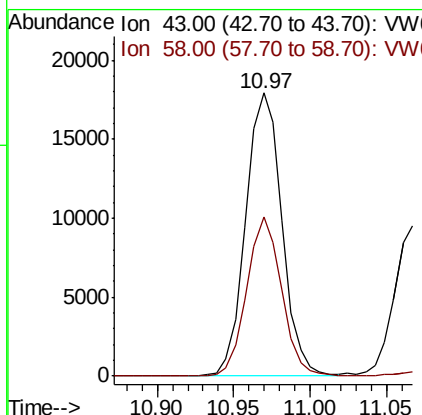
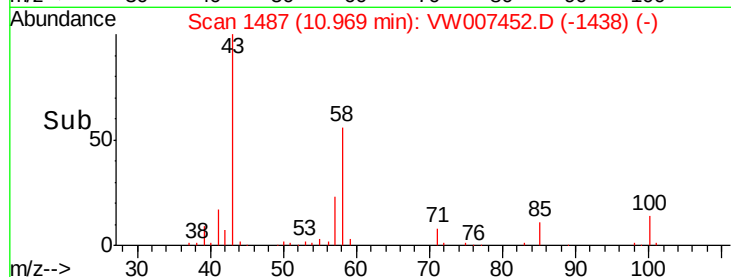
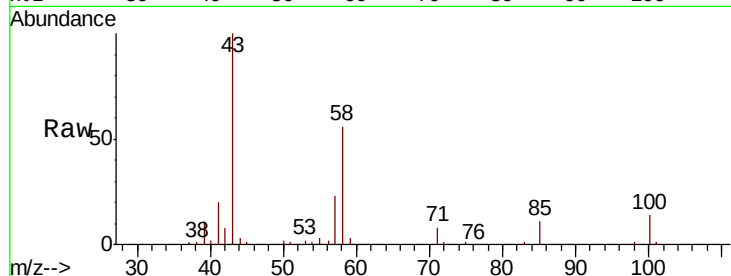
#59  
2-Hexanone  
Concen: 105.349 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

Tot Ion: 43 Resp: 29554  
Ion Ratio Lower Upper  
43 100  
58 53.7 27.1 81.3

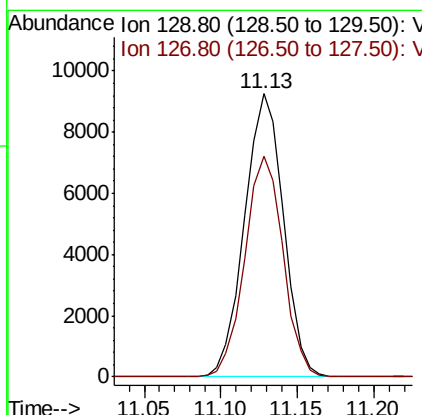
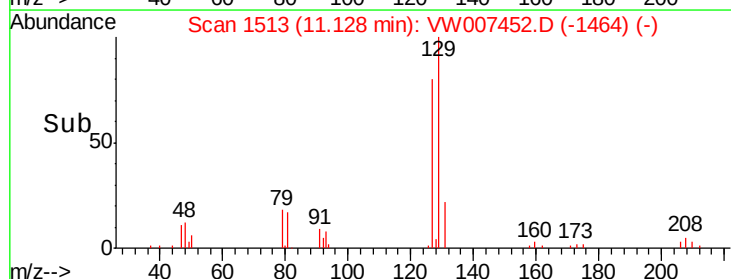
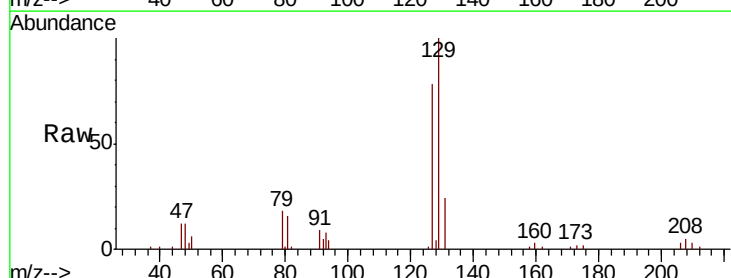
Manual Integrations  
APPROVED

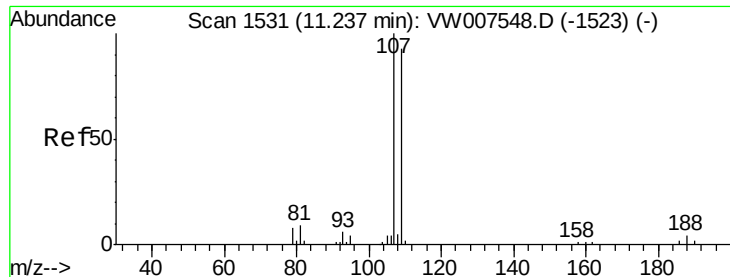
apatel  
12/18/2018 10:55:53 AM



#60  
Dibromochloromethane  
Concen: 21.579 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Tgt Ion: 129 Resp: 16382  
Ion Ratio Lower Upper  
129 100  
127 76.6 38.1 114.3





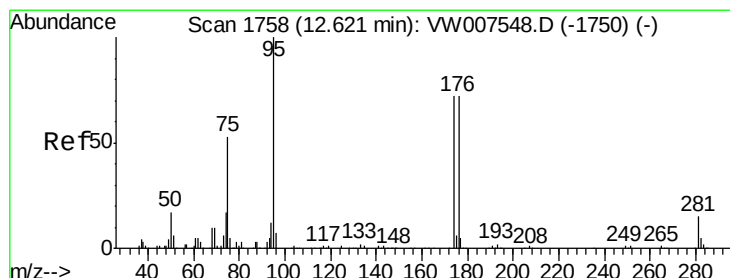
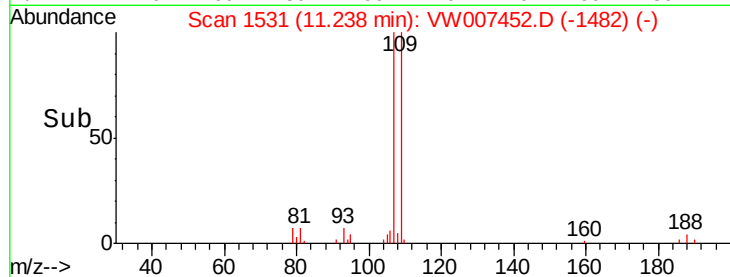
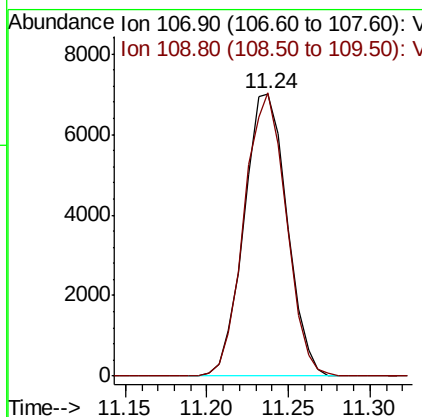
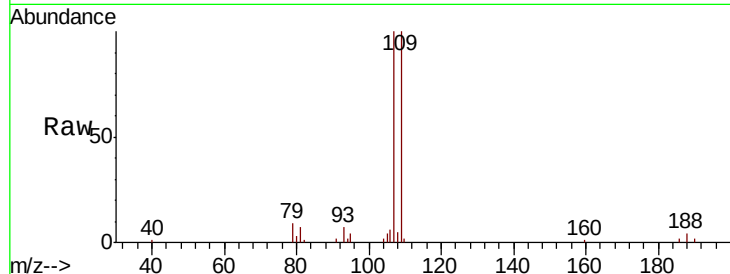
#61  
 1,2-Dibromoethane  
 Concen: 21.642 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 97.5  | 79.1  | 118.7 |

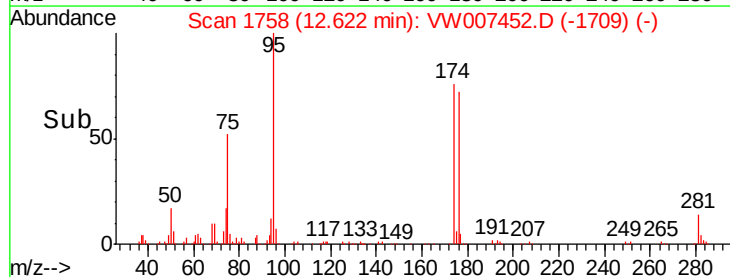
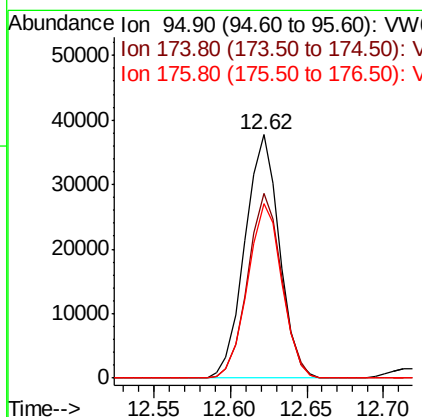
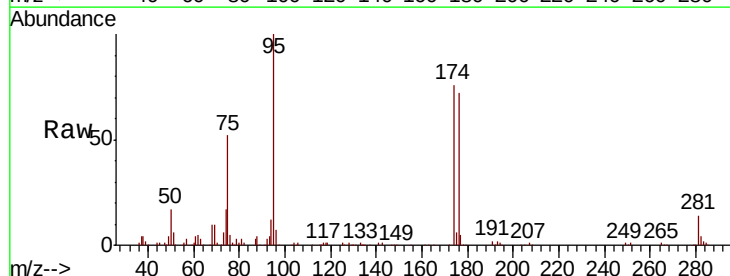
Manual Integrations  
 APPROVED

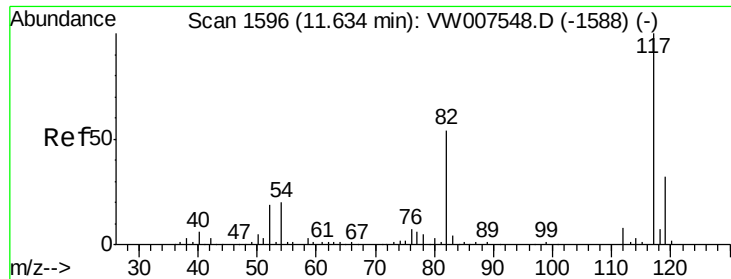
apatel  
 12/18/2018 10:55:53 AM



#62  
 4-Bromofluorobenzene  
 Concen: 53.458 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 74.6  | 0.0   | 147.2 |
| 176     | 71.5  | 0.0   | 138.8 |





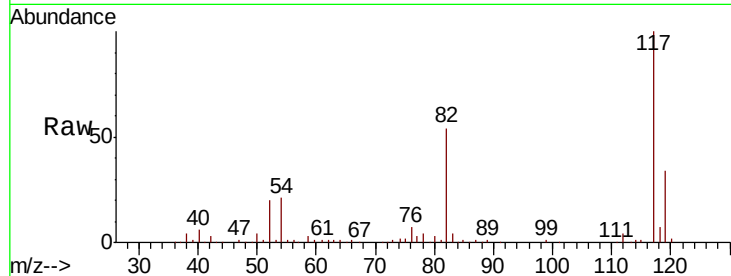
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.0  | 42.3  | 63.5  |
| 119     | 33.8  | 23.0  | 34.6  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM

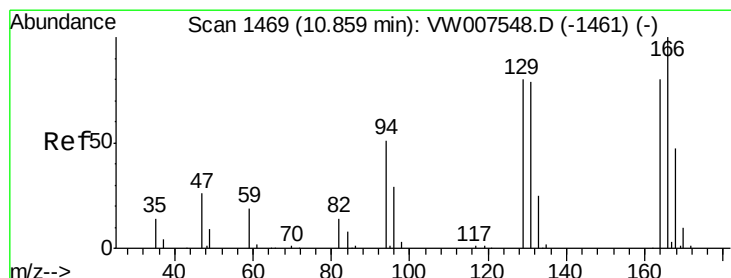
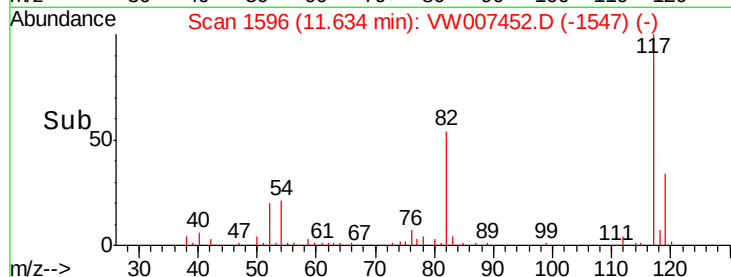
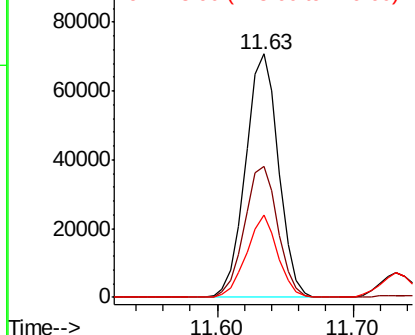


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64  
Tetrachloroethene  
Concen: 19.944 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 119.2 | 107.9 | 161.9 |
| 129     | 91.7  | 73.4  | 110.2 |
| 131     | 96.0  | 75.8  | 113.6 |

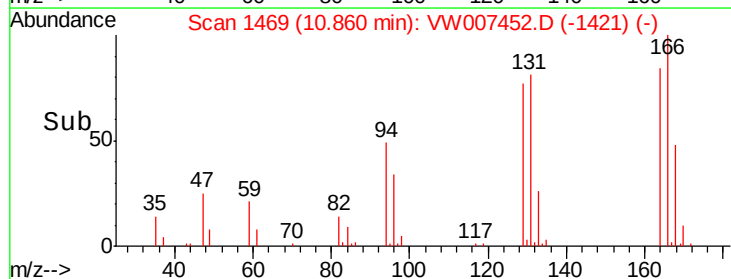
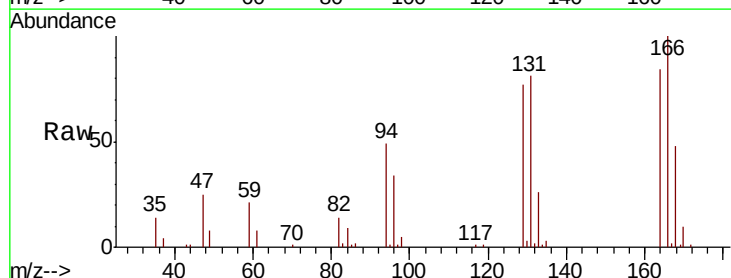
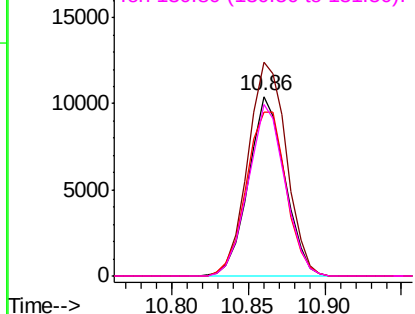
Abundance

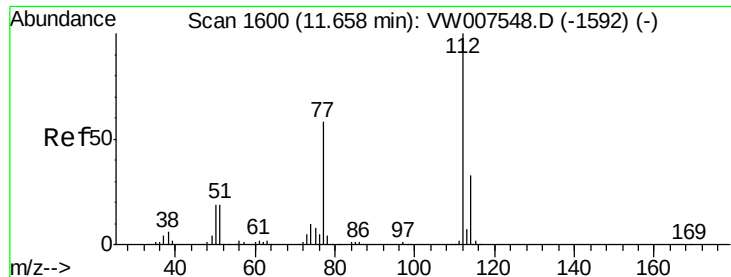
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





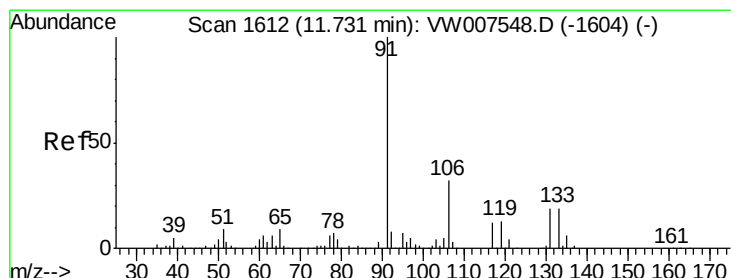
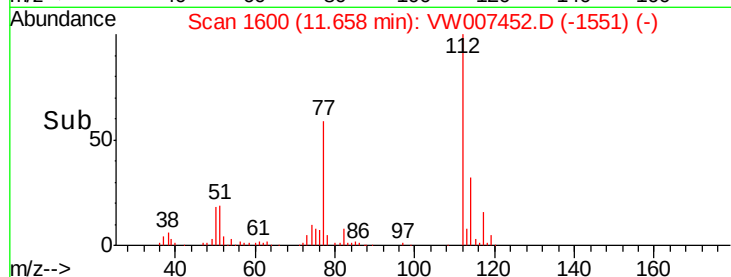
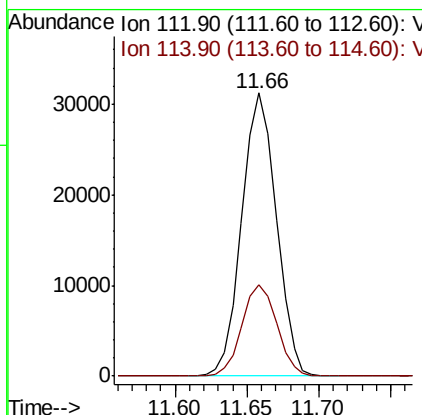
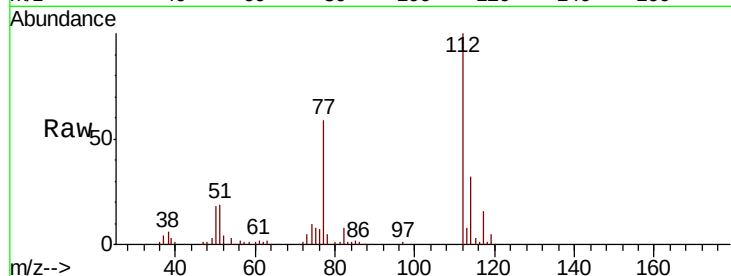
#65  
Chlorobenzene  
Concen: 20.754 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.5  | 27.8  | 41.8  |

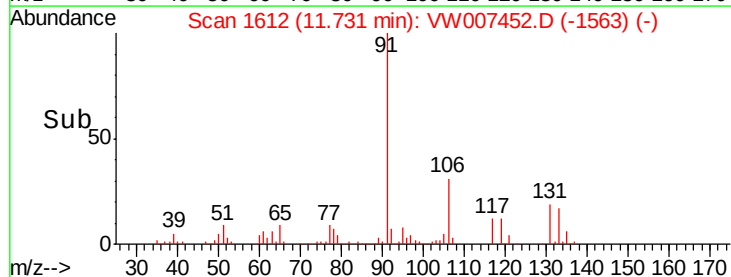
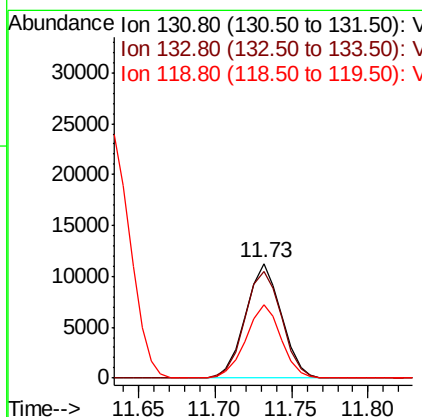
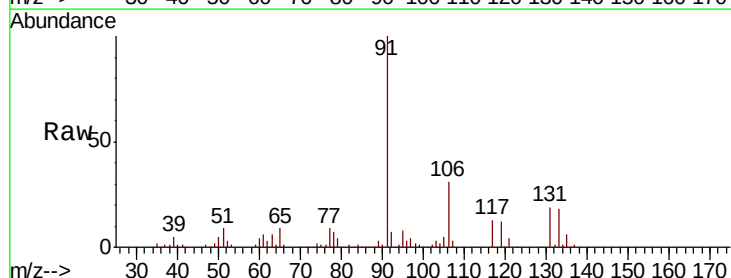
Manual Integrations  
APPROVED

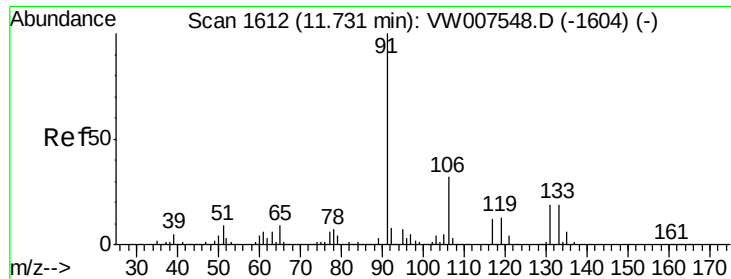
apatel  
12/18/2018 10:55:53 AM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.799 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 95.8  | 47.1  | 141.4 |
| 119     | 62.8  | 31.3  | 93.9  |





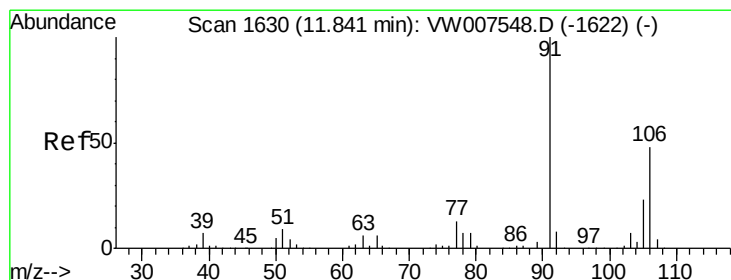
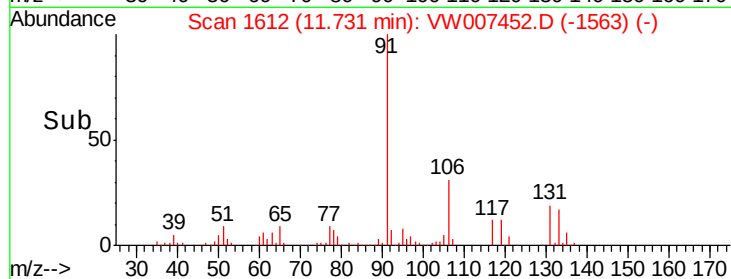
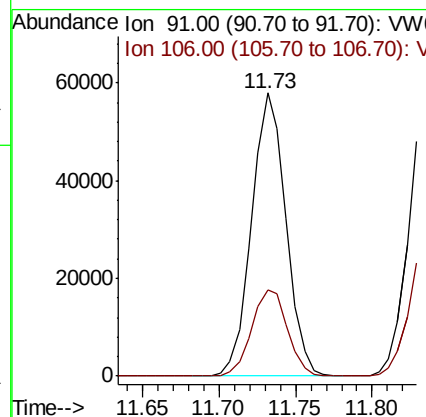
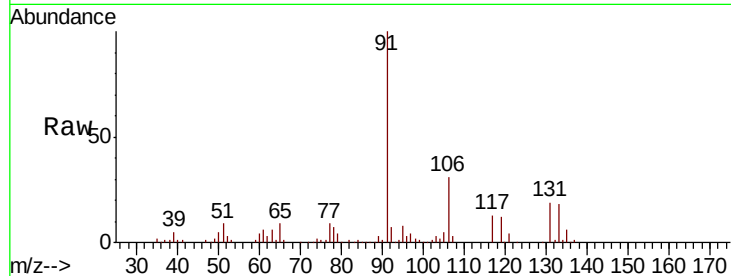
#67  
Ethyl Benzene  
Concen: 20.992 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

Tot Ion: 91 Resp: 90448  
Ion Ratio Lower Upper  
91 100  
106 30.5 21.8 32.8

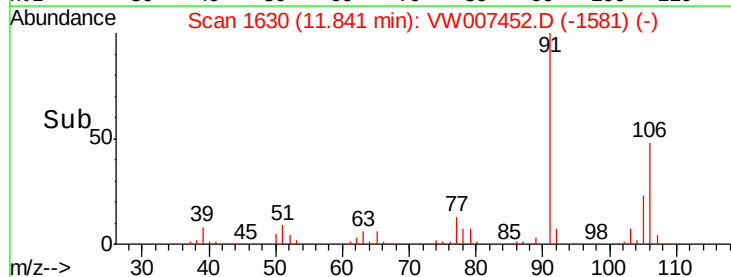
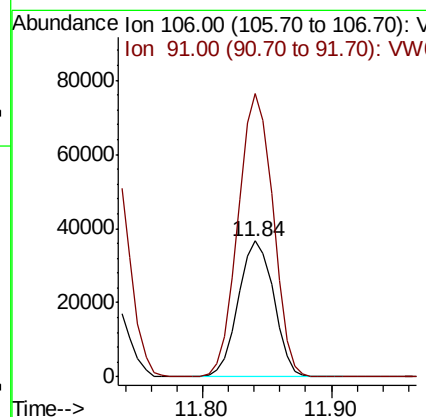
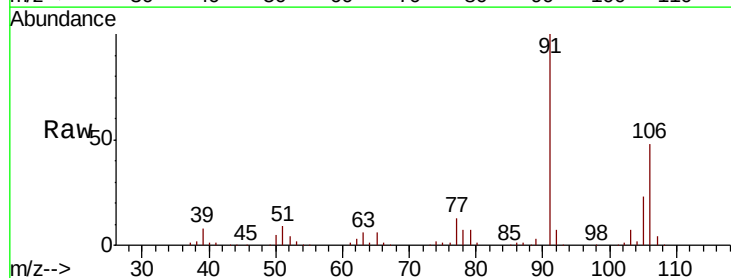
Manual Integrations  
APPROVED

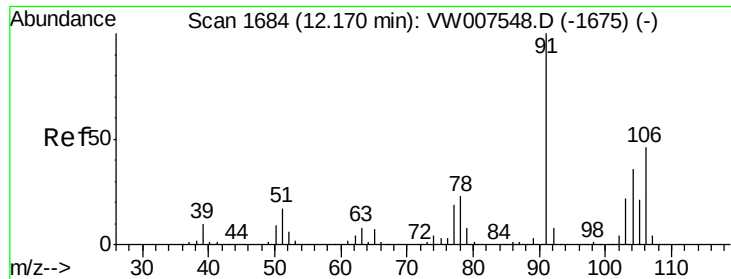
apatel  
12/18/2018 10:55:53 AM



#68  
m/p-Xylenes  
Concen: 41.808 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Tgt Ion: 106 Resp: 70030  
Ion Ratio Lower Upper  
106 100  
91 205.5 165.3 247.9





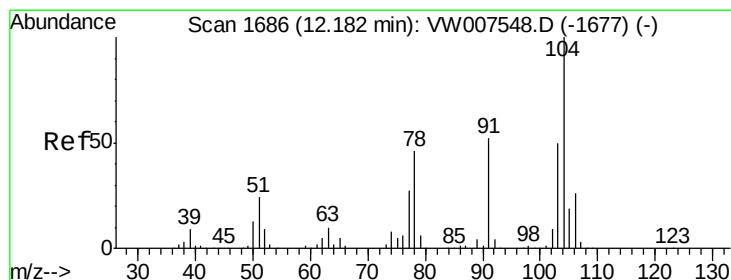
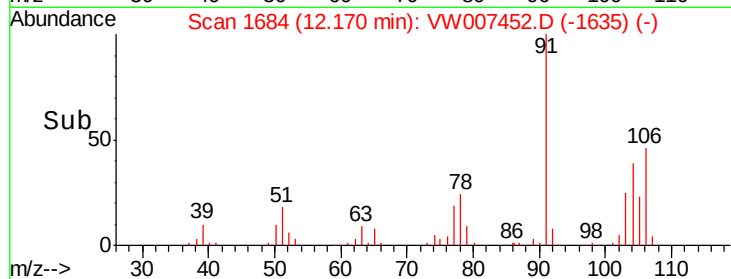
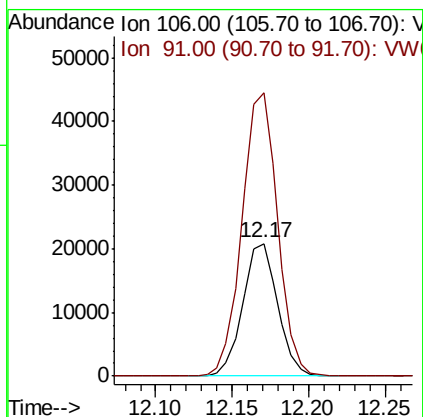
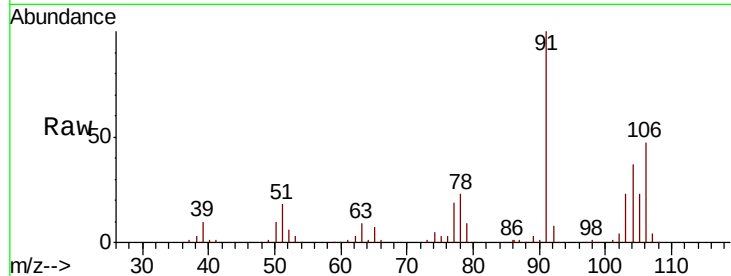
#69  
o-Xylene  
Concen: 21.095 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

Tot Ion:106 Resp: 33001  
Ion Ratio Lower Upper  
106 100  
91 217.7 106.6 319.8

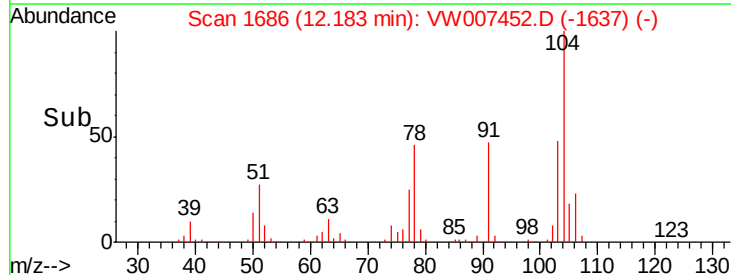
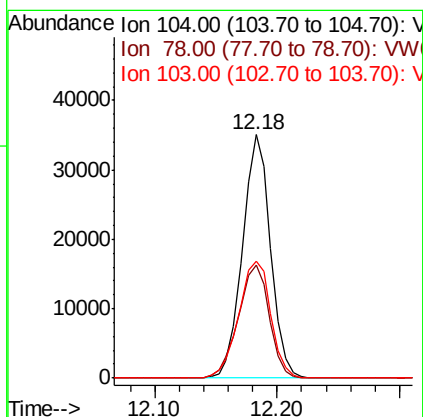
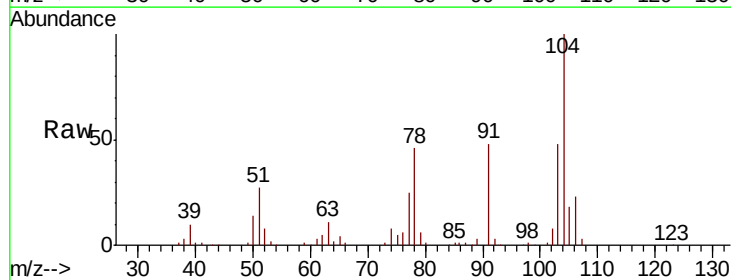
Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM

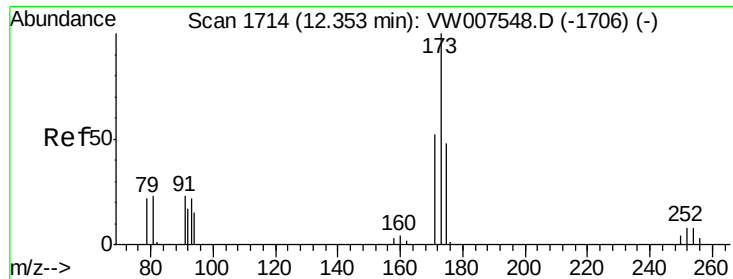


#70  
Styrene  
Concen: 22.019 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Tgt Ion:104 Resp: 55637  
Ion Ratio Lower Upper  
104 100  
78 51.4 41.8 62.8  
103 55.1 46.6 69.8







#71

Bromoform

Concen: 20.014 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion:173 Resp: 9042

Ion Ratio Lower Upper

173 100

175 48.7 23.6 70.8

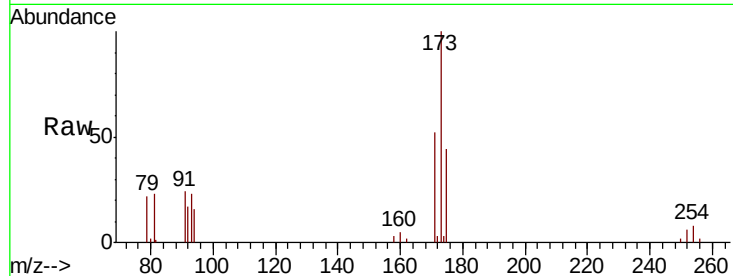
254 0.0 0.0 0.0

Manual Integrations

APPROVED

apatel

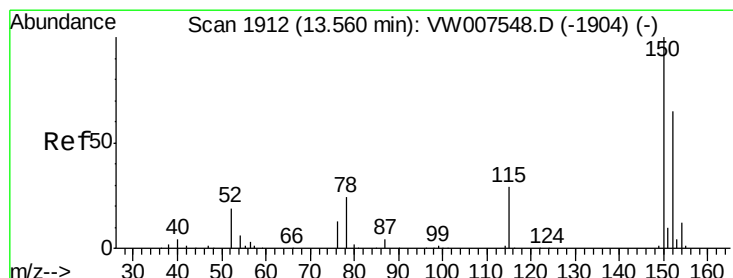
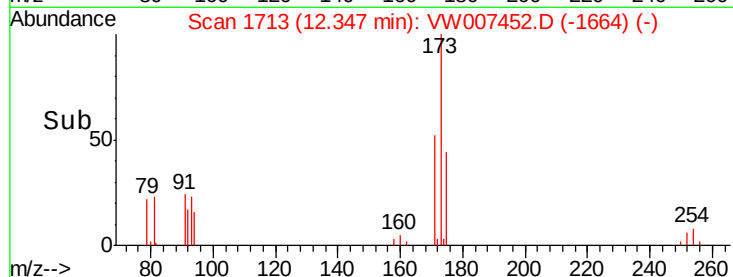
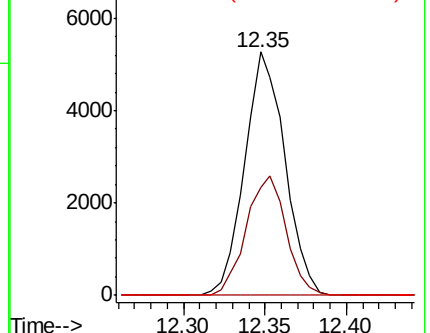
12/18/2018 10:55:53 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

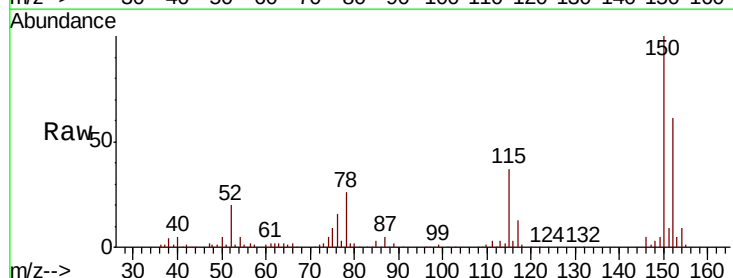
Tgt Ion:152 Resp: 59906

Ion Ratio Lower Upper

152 100

115 61.8 31.4 94.2

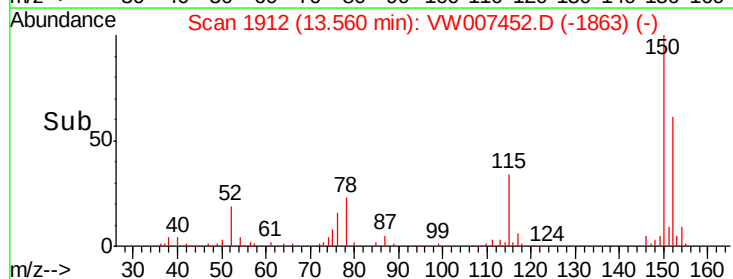
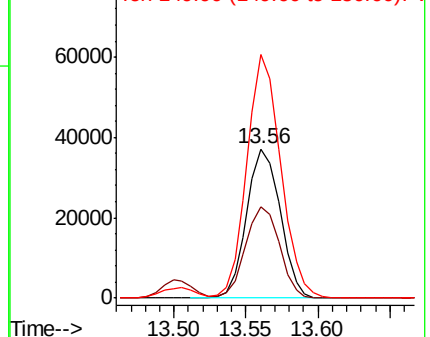
150 164.5 0.0 358.4

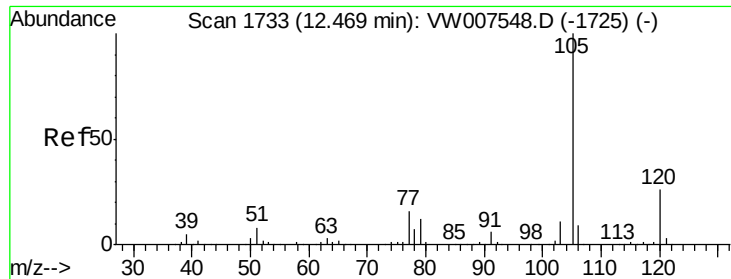


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.265 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

VW1215SBS01

Tot Ion: 105 Resp: 93020

Ion Ratio Lower Upper

105 100

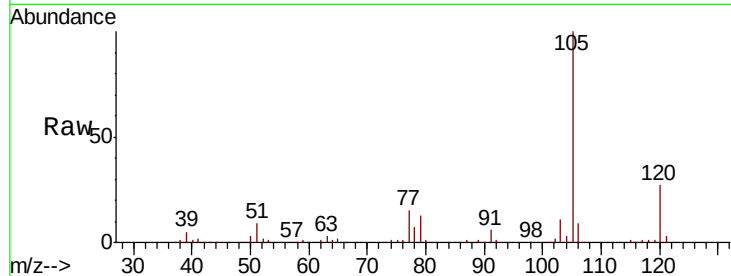
120 26.5 12.8 38.4

Manual Integrations

APPROVED

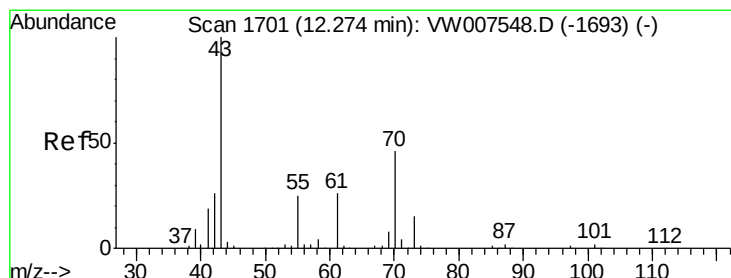
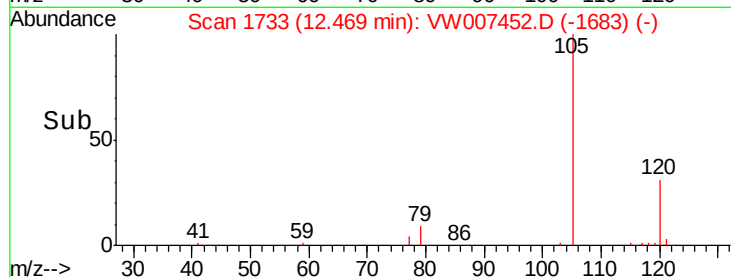
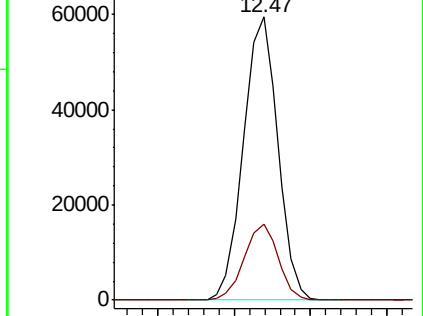
apatel

12/18/2018 10:55:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.600 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Tgt Ion: 43 Resp: 16351

Ion Ratio Lower Upper

43 100

70 45.2 36.5 54.7

55 25.4 20.1 30.1

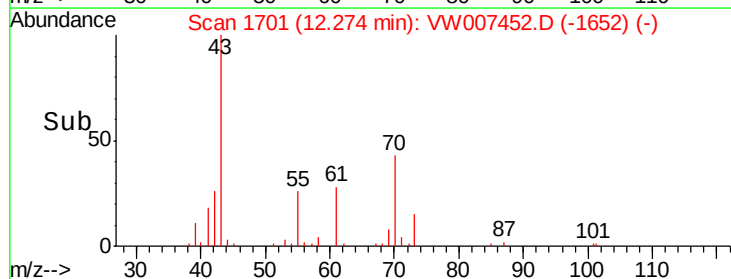
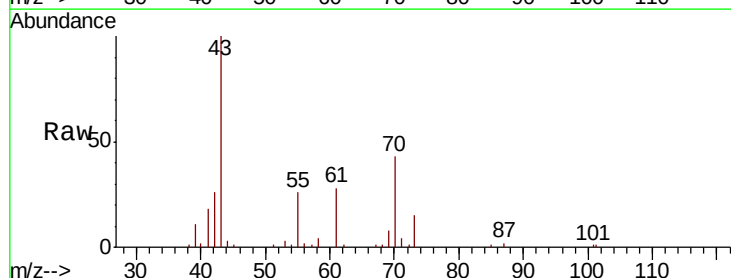
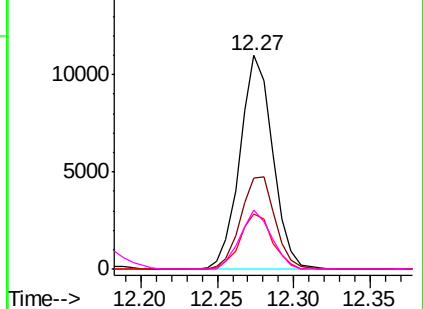
61 26.4 19.3 28.9

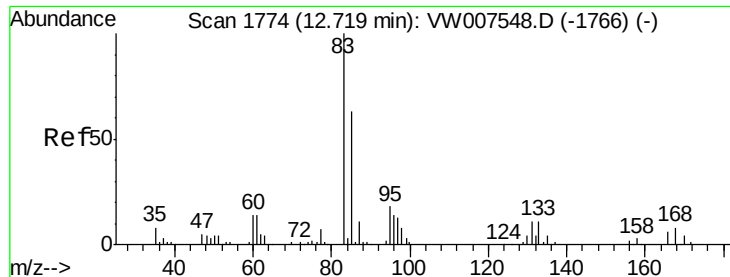
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 20.904 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

Instrument :

MSVOA\_W

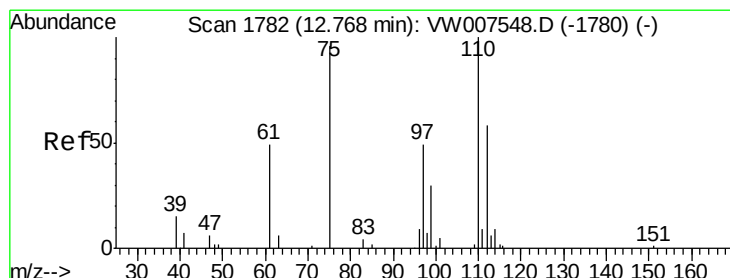
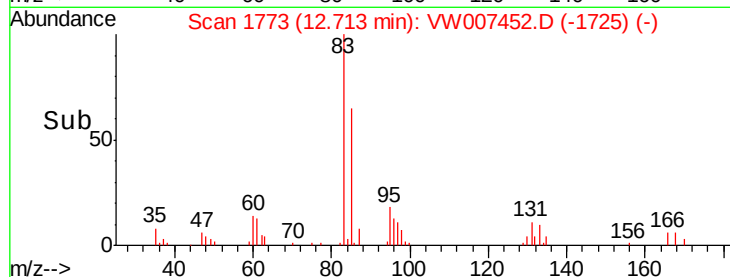
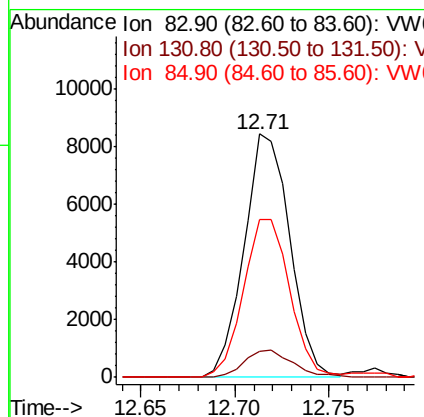
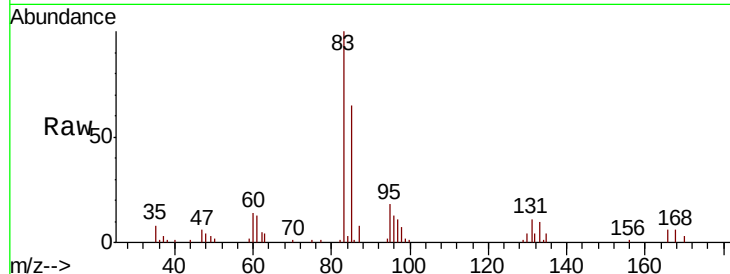
ClientSampleId :

VW1215SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 14212 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 11.8  | 5.9   | 17.8  |
| 85       | 65.6  | 30.0  | 90.0  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM



#76

1,2,3-Trichloropropane

Concen: 23.778 ug/l m

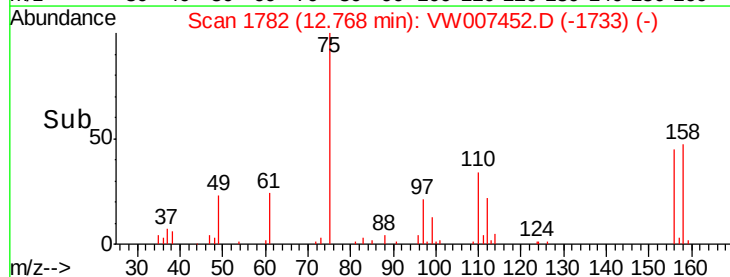
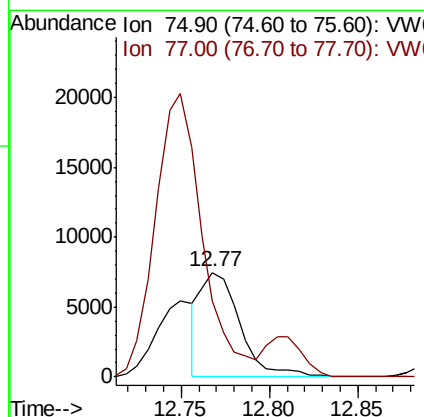
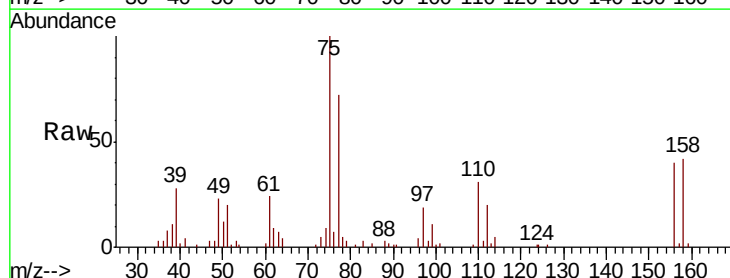
RT: 12.77 min Scan# 1782

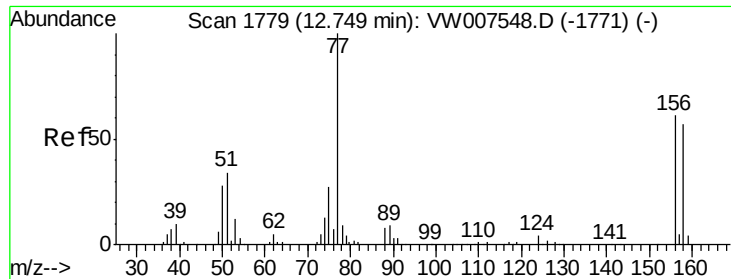
Delta R.T. 0.00 min

Lab File: VW007452.D

Acq: 12 Dec 2018 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11745 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 320.6 | 166.9 | 500.8 |





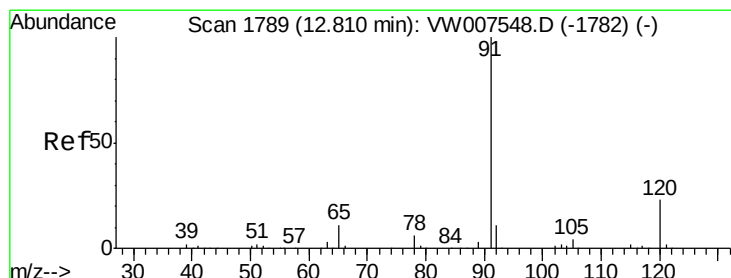
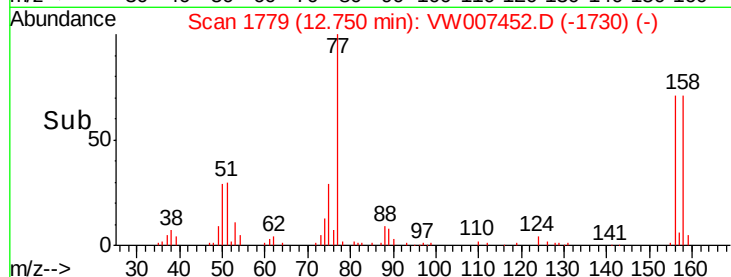
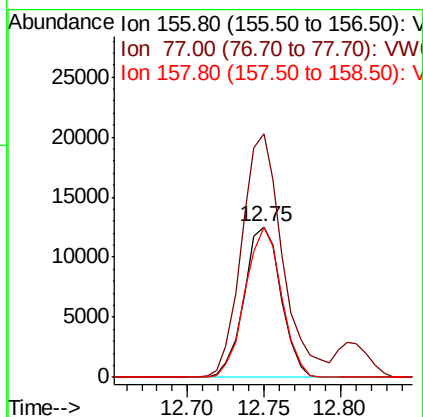
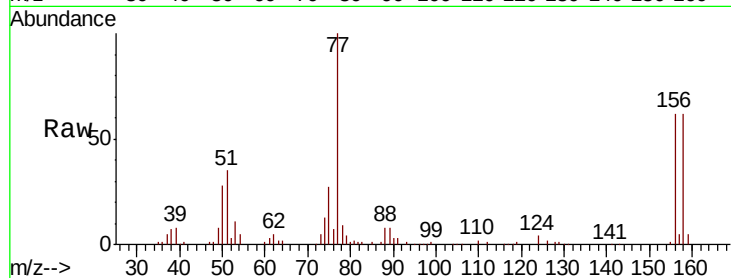
#77  
Bromobenzene  
Concen: 20.641 ug/l  
RT: 12.75 min Scan# 1779  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 156     | 100   |       |       |       |
| 77      | 179.3 | 88.1  | 264.4 |       |
| 158     | 98.0  | 45.6  | 136.7 |       |

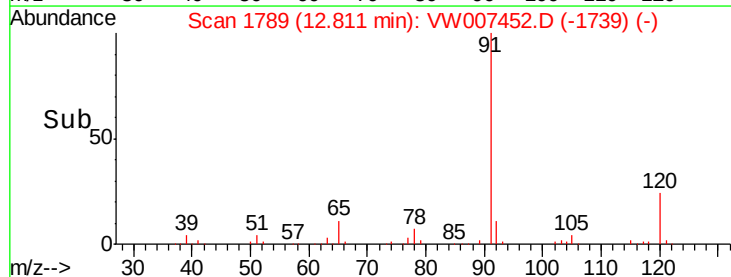
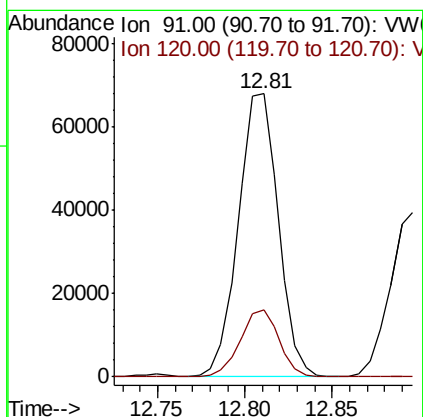
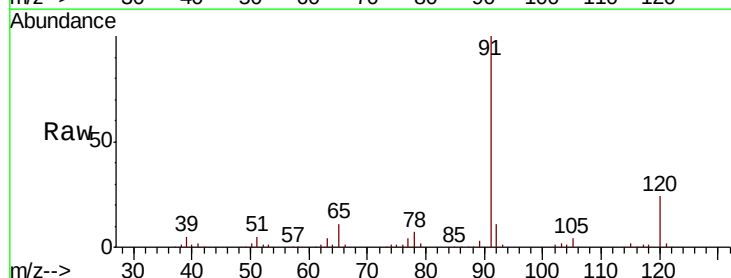
Manual Integrations  
APPROVED

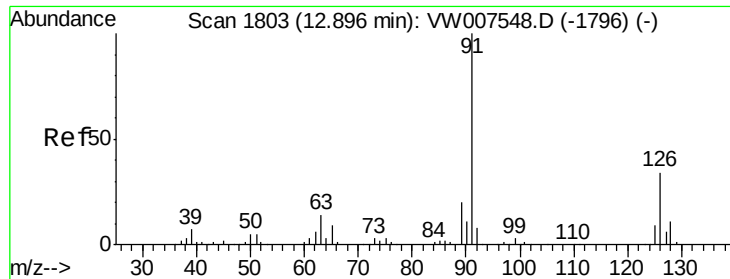
apatel  
12/18/2018 10:55:53 AM



#78  
n-propylbenzene  
Concen: 20.910 ug/l  
RT: 12.81 min Scan# 1789  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 91      | 100  |       |       |       |
| 120     | 23.0 | 11.9  | 35.5  |       |





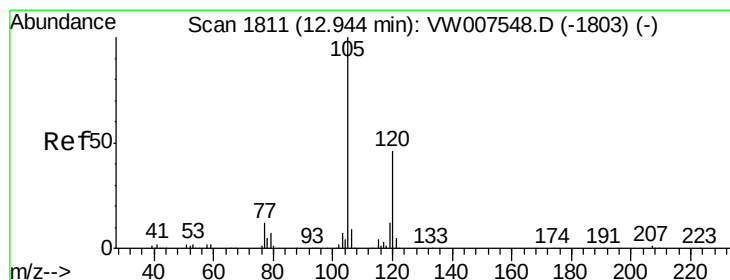
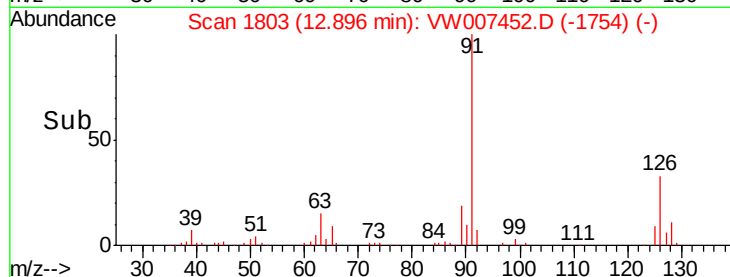
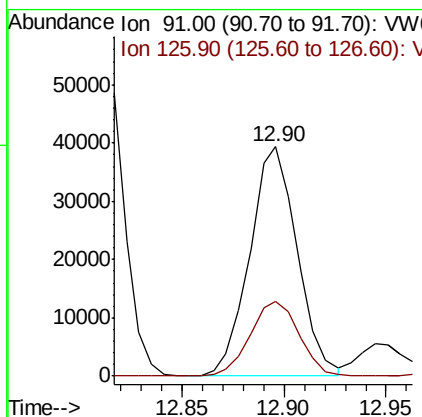
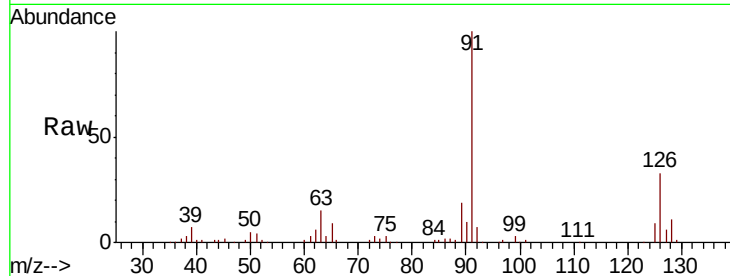
#79  
2-Chlorotoluene  
Concen: 20.377 ug/l  
RT: 12.90 min Scan# 1803  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

Tot Ion: 91 Resp: 63693  
Ion Ratio Lower Upper  
91 100  
126 33.8 15.9 47.6

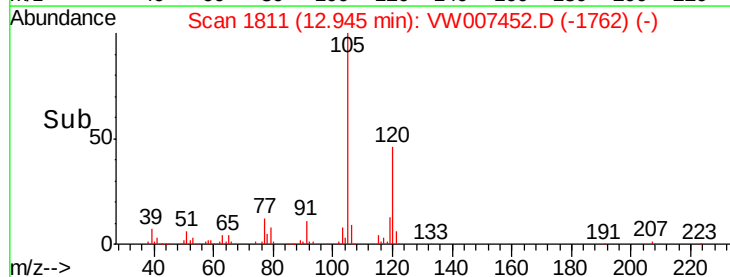
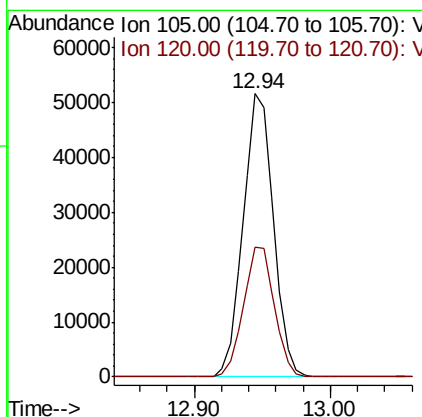
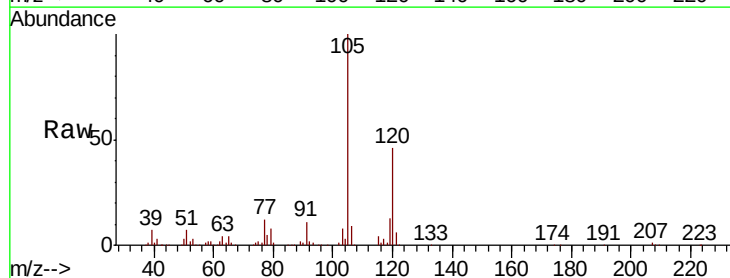
Manual Integrations  
APPROVED

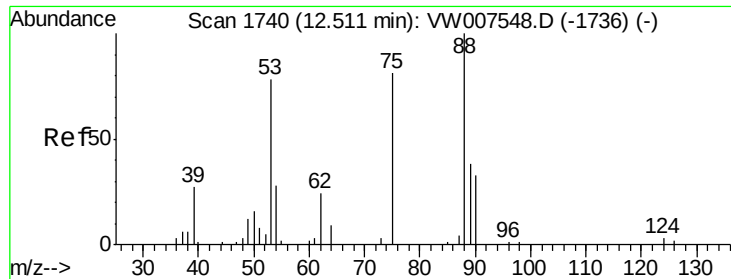
apatel  
12/18/2018 10:55:53 AM



#80  
1,3,5-Trimethylbenzene  
Concen: 20.805 ug/l  
RT: 12.94 min Scan# 1811  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Tgt Ion:105 Resp: 80243  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.8 71.4





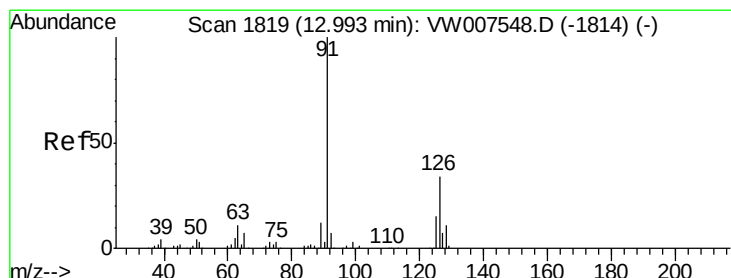
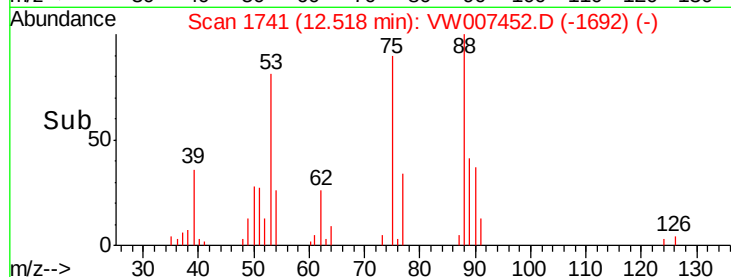
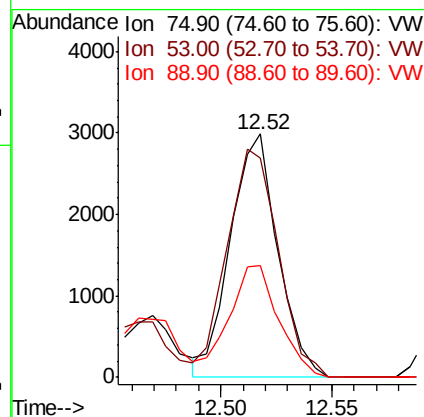
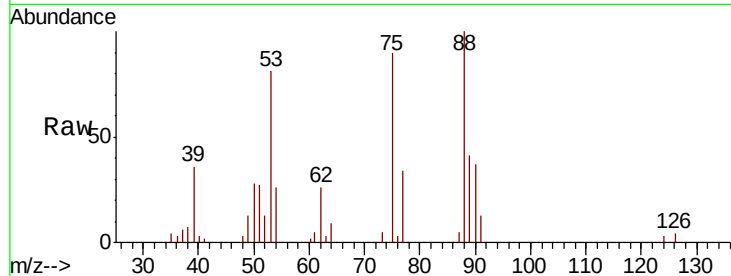
#81  
trans-1,4-Dichloro-2-butene  
Concen: 19.772 ug/l  
RT: 12.52 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 101.4 | 84.9  | 127.3 |
| 89      | 48.8  | 40.3  | 60.5  |

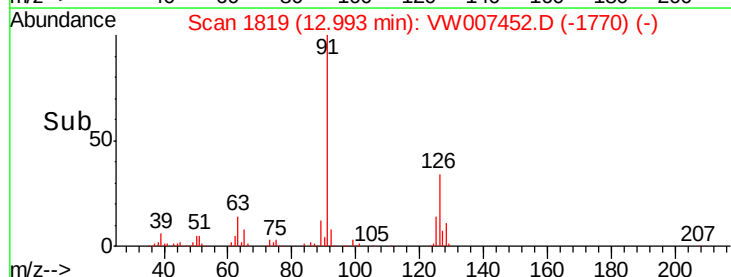
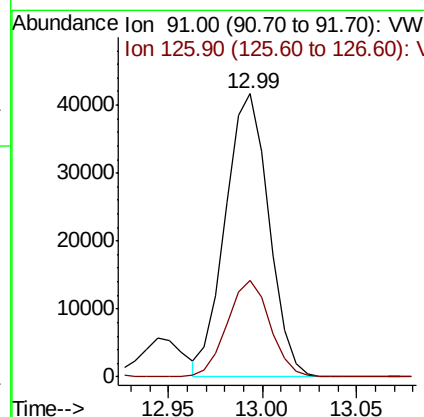
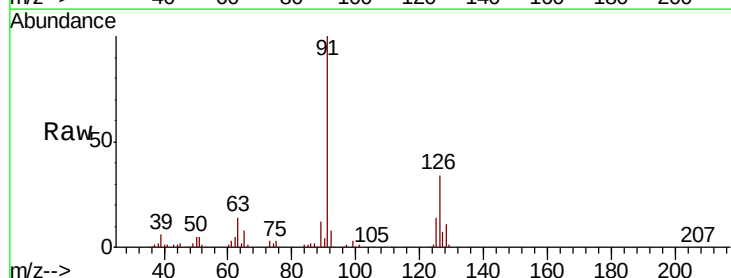
Manual Integrations  
APPROVED

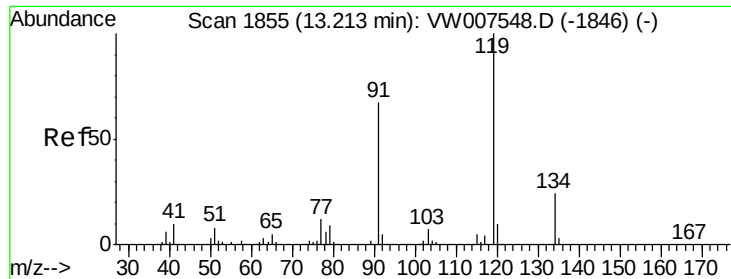
apatel  
12/18/2018 10:55:53 AM



#82  
4-Chlorotoluene  
Concen: 20.275 ug/l  
RT: 12.99 min Scan# 1819  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 33.3  | 16.0  | 48.0  |





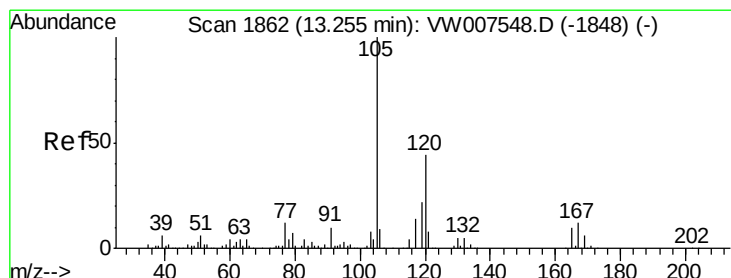
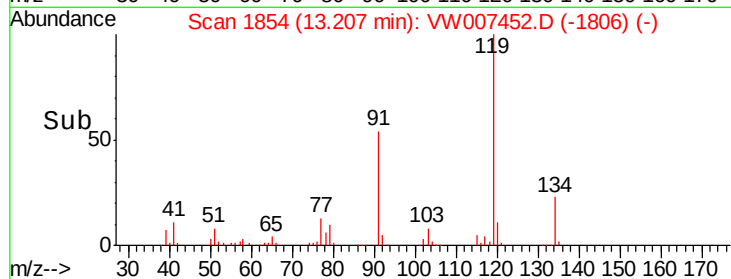
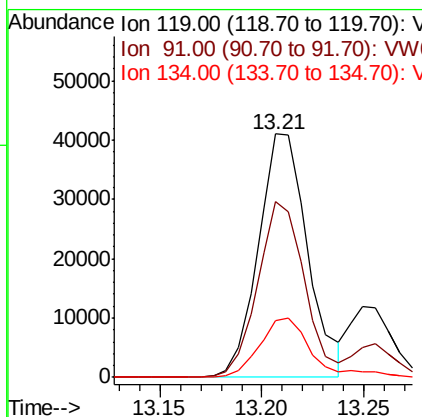
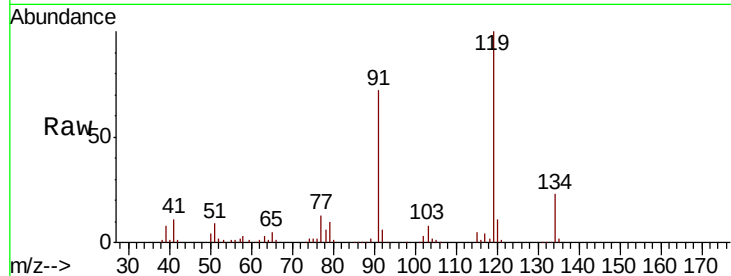
#83  
tert-Butylbenzene  
Concen: 20.337 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 68.4  | 33.1  | 99.2  |
| 134     | 25.8  | 12.5  | 37.5  |

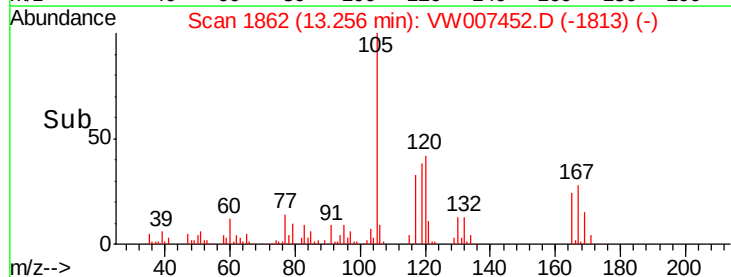
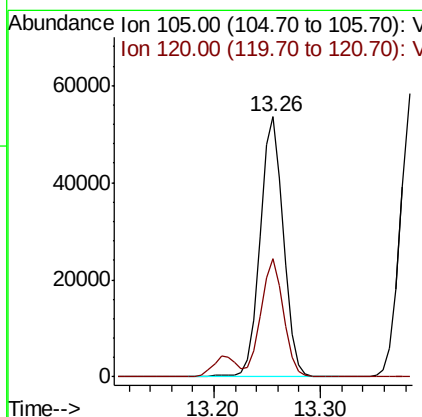
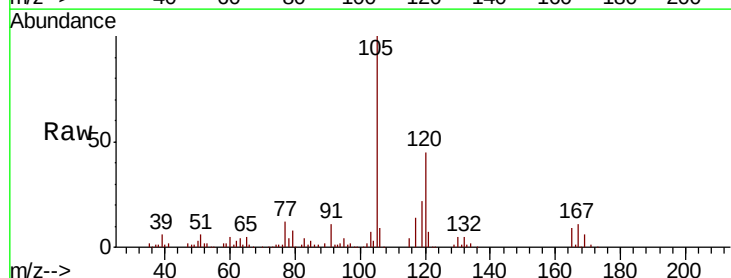
Manual Integrations  
APPROVED

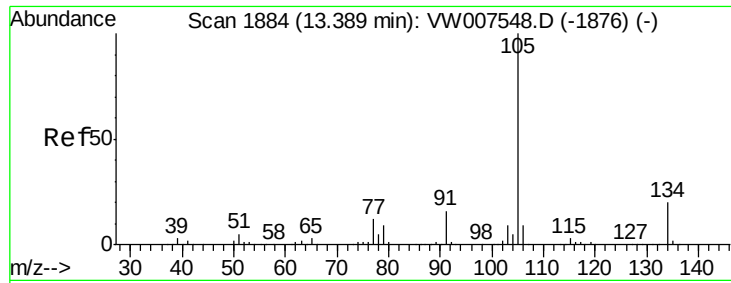
apatel  
12/18/2018 10:55:53 AM



#84  
1,2,4-Trimethylbenzene  
Concen: 20.663 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.3  | 22.6  | 67.7  |





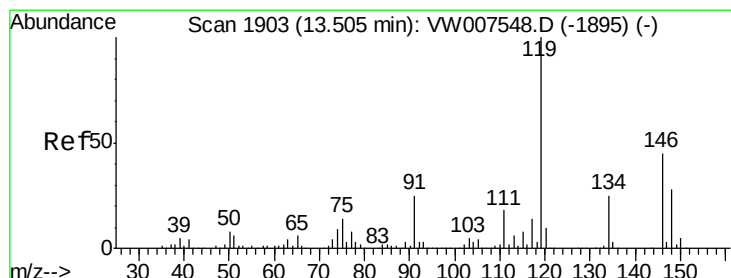
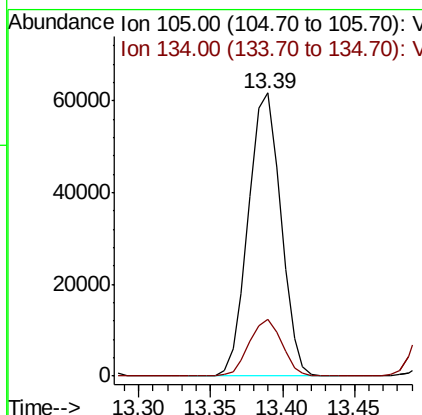
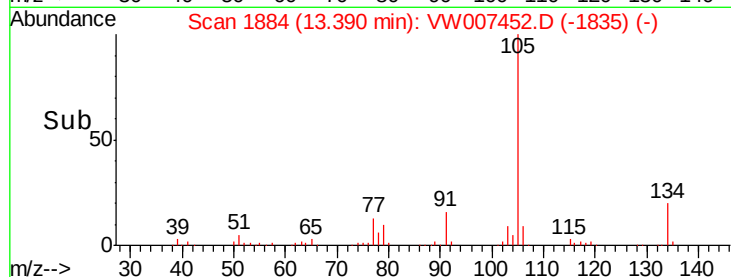
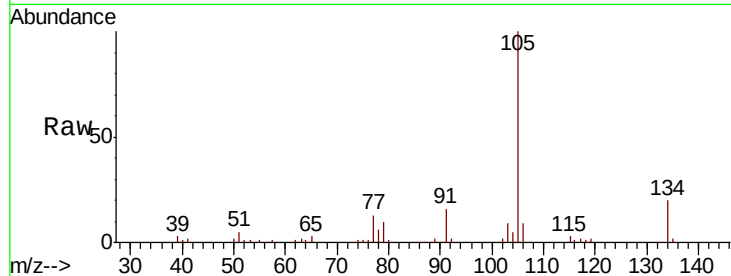
#85  
 sec-Butylbenzene  
 Concen: 20.833 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.2  | 11.1  | 33.3  |

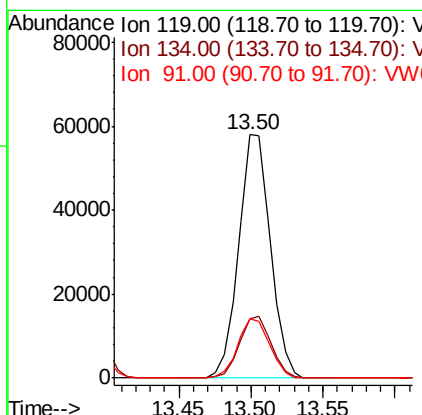
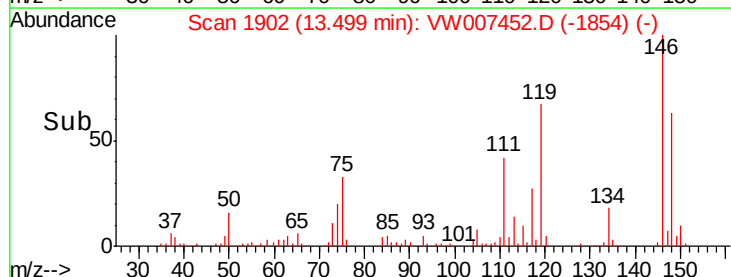
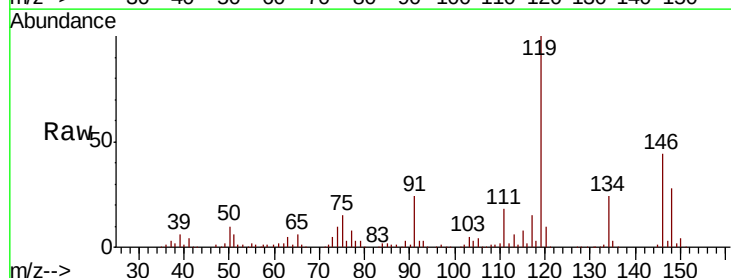
Manual Integrations  
 APPROVED

apatel  
 12/18/2018 10:55:53 AM

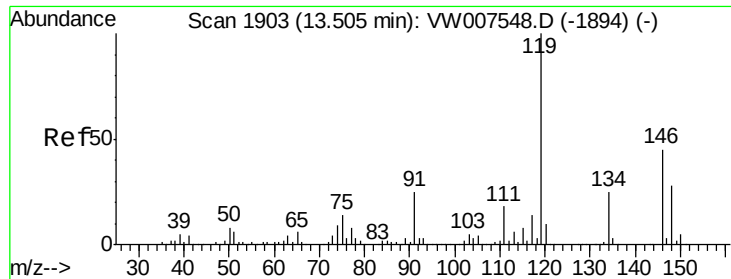


#86  
 p-Isopropyltoluene  
 Concen: 21.185 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.01 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.3  | 12.9  | 38.7  |
| 91      | 24.7  | 11.9  | 35.9  |







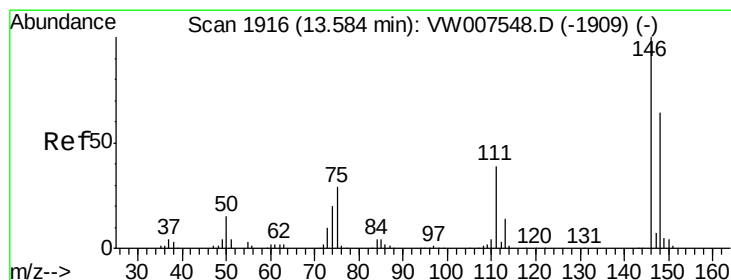
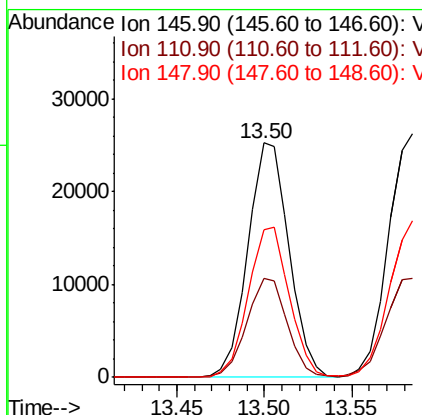
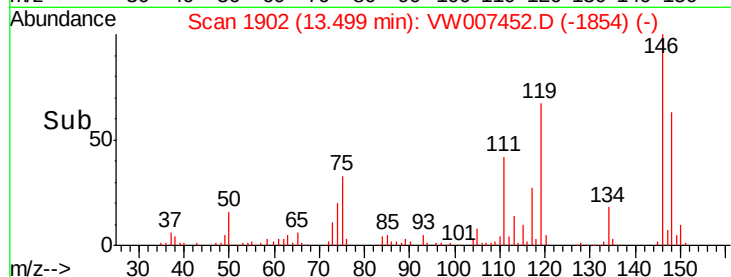
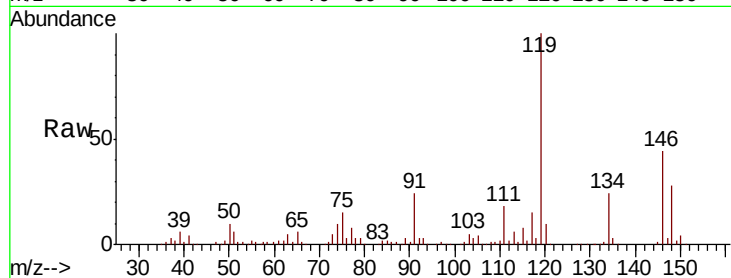
#87  
 1,3-Dichlorobenzene  
 Concen: 20.484 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.01 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.7  | 20.1  | 60.3  |
| 148     | 64.4  | 31.4  | 94.0  |

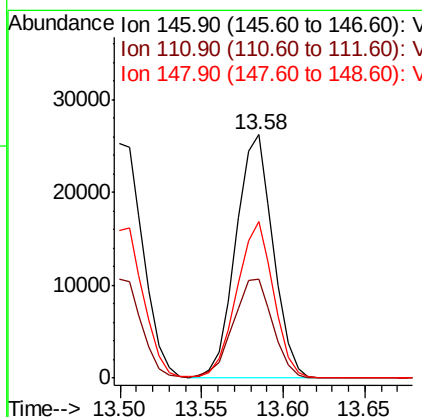
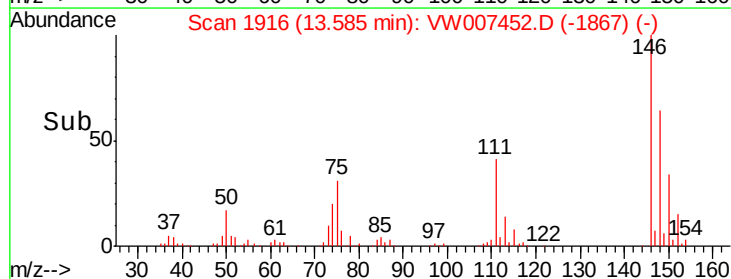
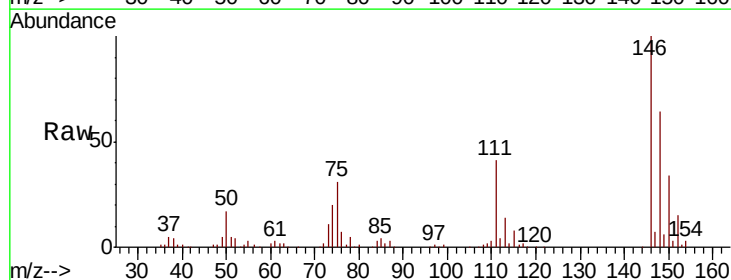
Manual Integrations  
 APPROVED

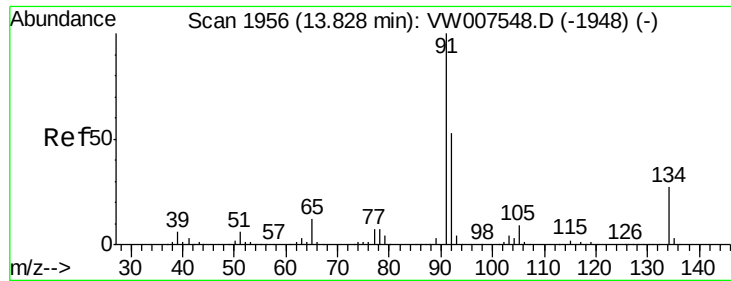
apatel  
 12/18/2018 10:55:53 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 20.431 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.3  | 20.3  | 61.0  |
| 148     | 63.3  | 33.5  | 100.5 |





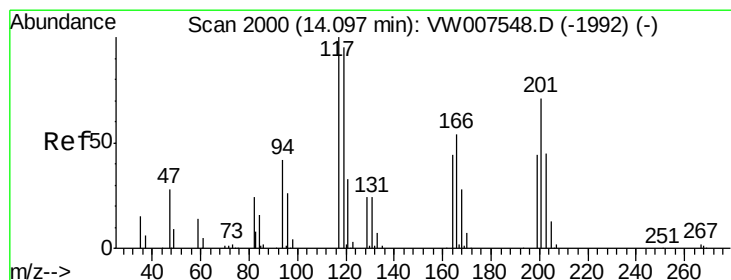
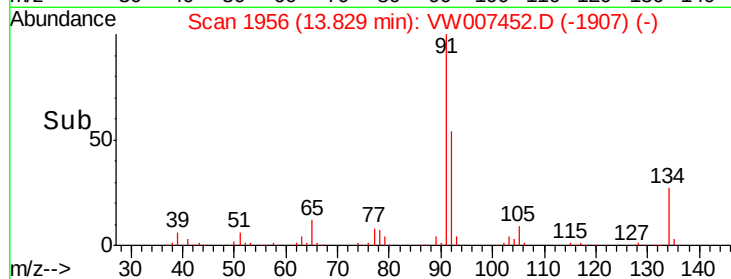
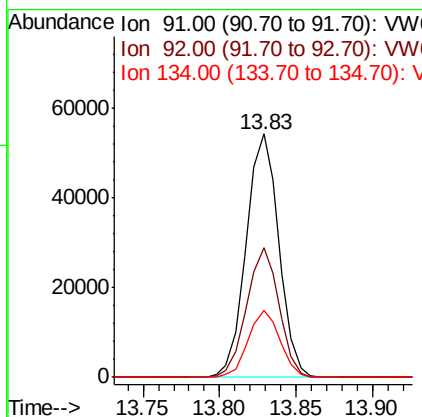
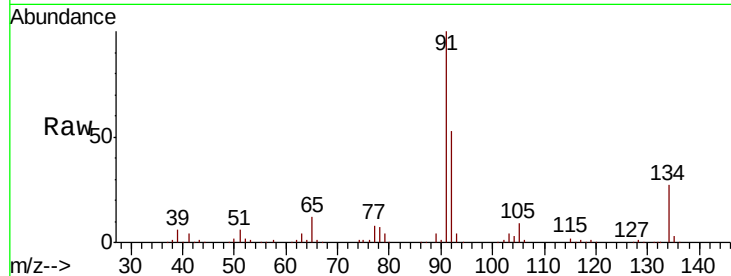
#89  
n-Butylbenzene  
Concen: 20.787 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.8  | 25.7  | 77.1  |
| 134     | 26.8  | 13.4  | 40.2  |

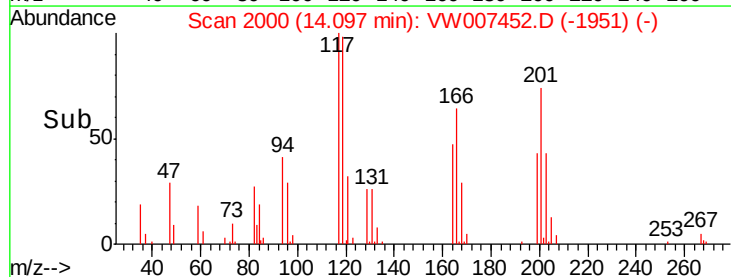
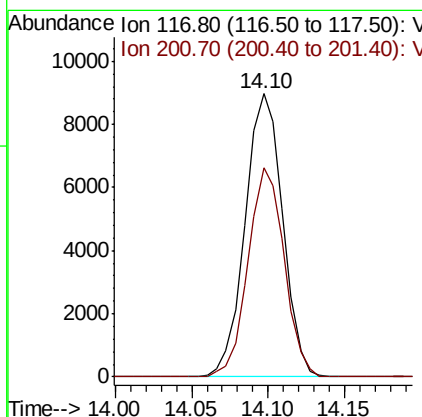
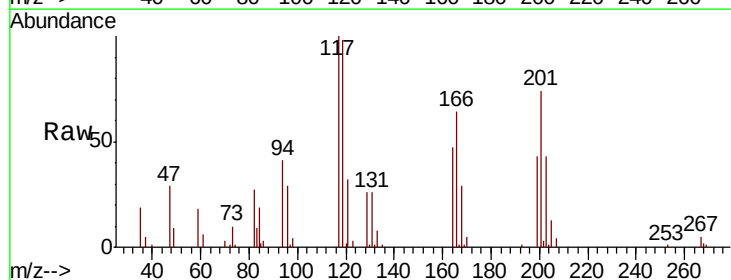
Manual Integrations  
APPROVED

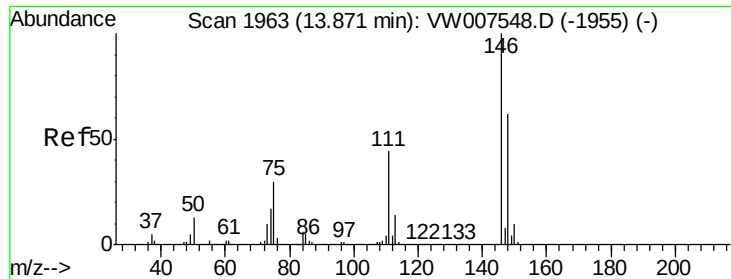
apatel  
12/18/2018 10:55:53 AM



#90  
Hexachloroethane  
Concen: 20.656 ug/l  
RT: 14.10 min Scan# 2000  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 71.1  | 35.3  | 105.9 |





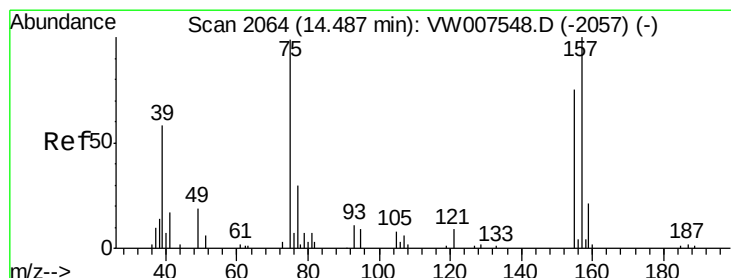
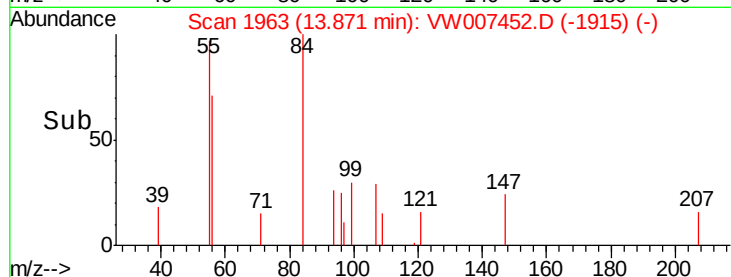
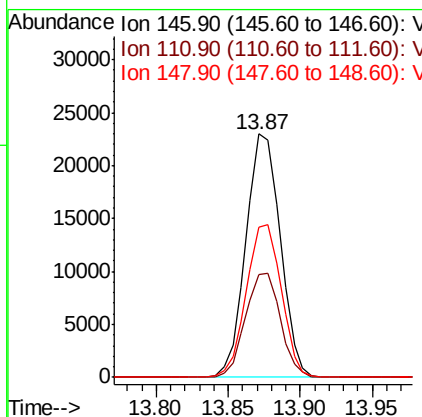
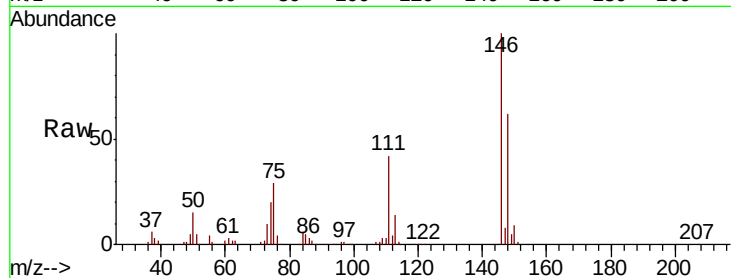
#91  
 1,2-Dichlorobenzene  
 Concen: 20.914 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.01 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.6  | 22.4  | 67.2  |
| 148     | 63.9  | 32.4  | 97.2  |

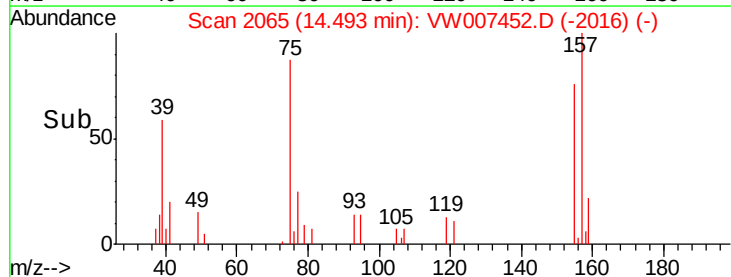
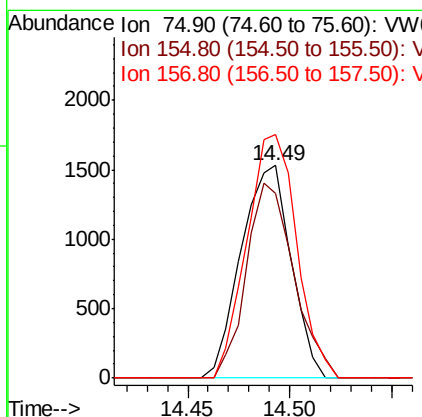
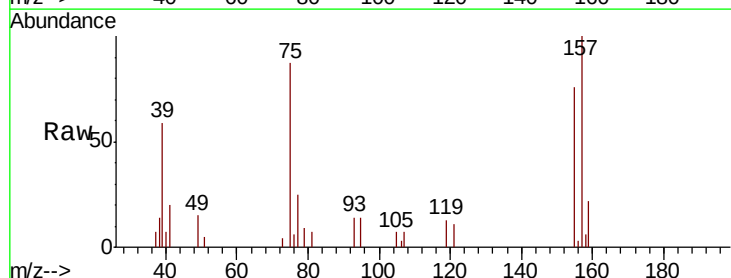
Manual Integrations  
 APPROVED

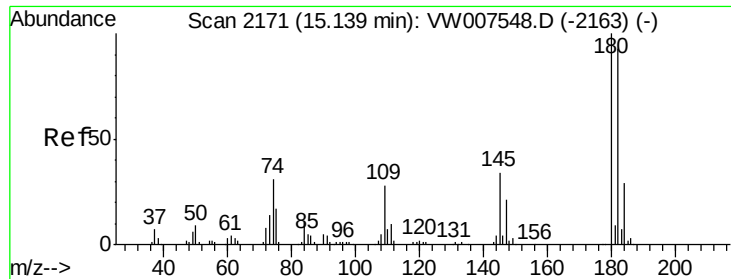
apatel  
 12/18/2018 10:55:53 AM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.093 ug/l  
 RT: 14.49 min Scan# 2065  
 Delta R.T. 0.00 min  
 Lab File: VW007452.D  
 Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 87.2  | 40.8  | 122.2 |
| 157     | 114.4 | 51.1  | 153.4 |





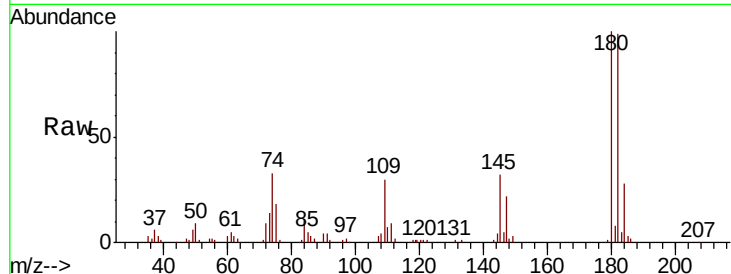
#93  
1,2,4-Trichlorobenzene  
Concen: 20.623 ug/l  
RT: 15.14 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 25788 |       |       |
| 182     | 94.7  |       | 49.9  | 149.6 |
| 145     | 34.0  |       | 17.8  | 53.4  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM

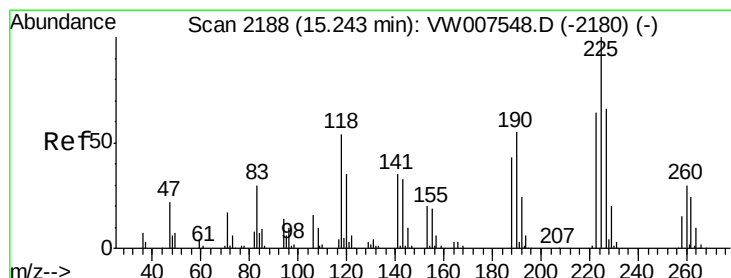
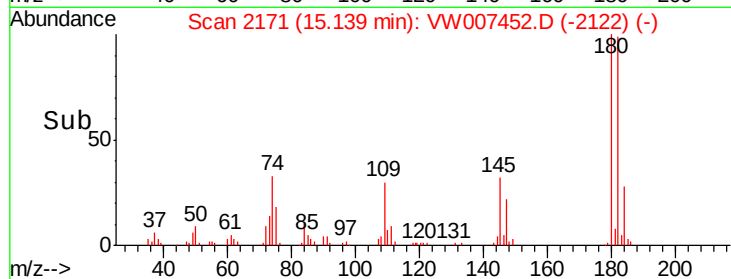
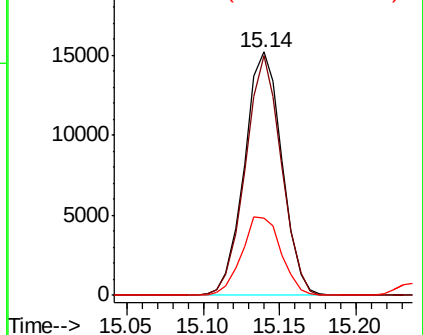


Abundance

Ion 179.80 (179.50 to 180.50): V

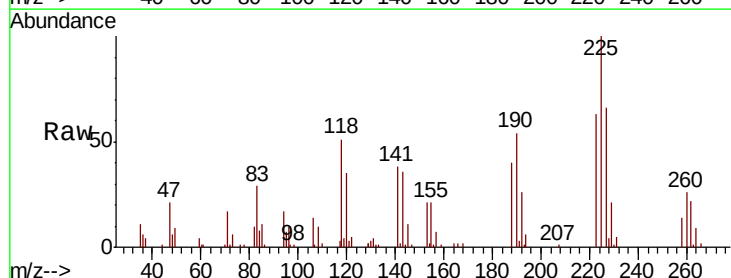
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
Hexachlorobutadiene  
Concen: 20.613 ug/l  
RT: 15.24 min Scan# 2188  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 13676 |       |       |
| 223     | 63.2  |       | 32.1  | 96.3  |
| 227     | 63.0  |       | 31.9  | 95.9  |

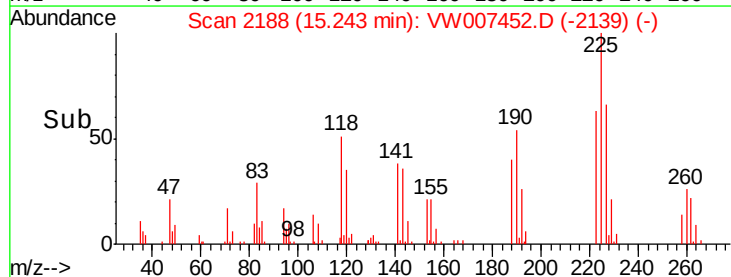
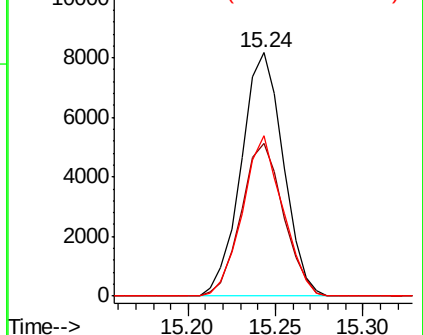


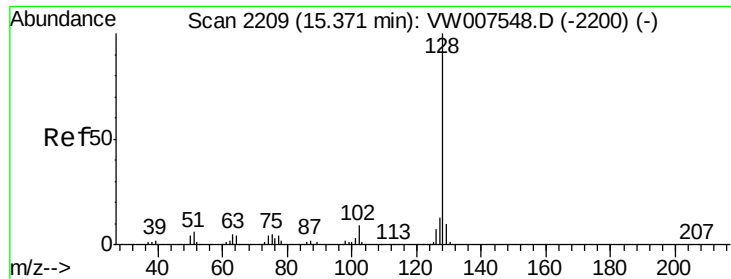
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





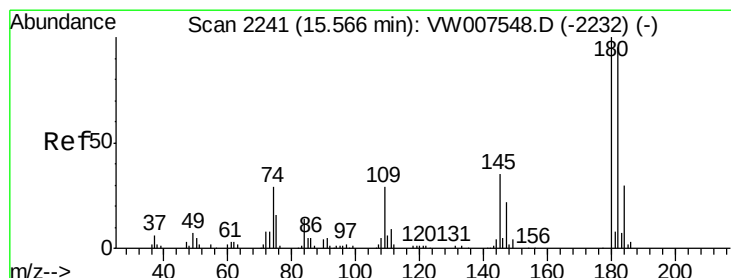
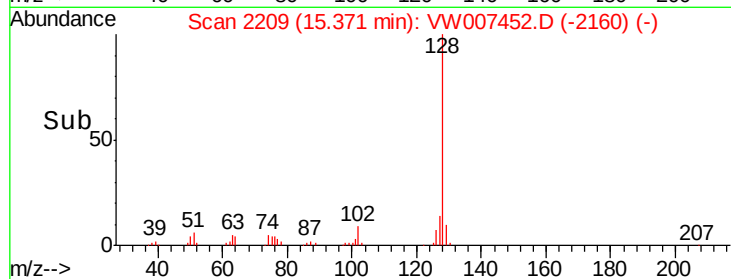
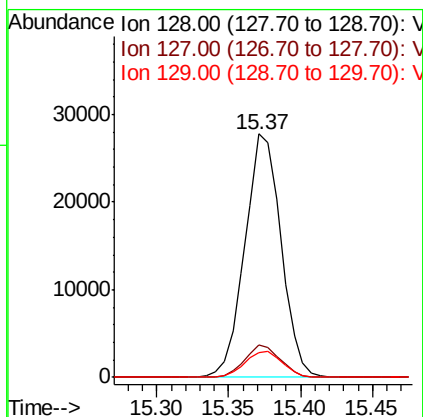
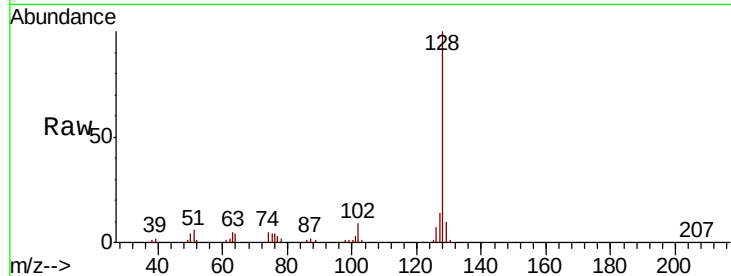
#95  
Naphthalene  
Concen: 20.183 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1215SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.2  | 15.4  |
| 129     | 11.0  | 8.3   | 12.5  |

Manual Integrations  
APPROVED

apatel  
12/18/2018 10:55:53 AM



#96  
1,2,3-Trichlorobenzene  
Concen: 20.354 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. 0.01 min  
Lab File: VW007452.D  
Acq: 12 Dec 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 45.6  | 136.7 |
| 145     | 35.7  | 17.5  | 52.5  |

