

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\  
 Data File : VL034730.D  
 Acq On : 28 Feb 2020 5:12  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/28/2020 12:34:11 PM

Quant Time: Feb 28 07:36:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Feb 28  
 QLast Update : Fri Feb 28 01:15:02 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1114291  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2378533  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2612717m | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1991086  | 9.29     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 92.90% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85   | 1807961  | 10.285 | ppbv  | 96     |
| 3) Chlorodifluoromethane       | 2.96 | 51   | 1212355  | 10.082 | ppbv  | 97     |
| 4) Chloromethane               | 3.11 | 50   | 718283   | 10.670 | ppbv  | 99     |
| 5) Vinyl Chloride              | 3.23 | 62   | 667787   | 10.112 | ppbv  | 97     |
| 6) Bromomethane                | 3.45 | 94   | 382146   | 9.877  | ppbv  | 92     |
| 7) Chloroethane                | 3.53 | 64   | 242434   | 9.889  | ppbv  | 94     |
| 8) Dichlorotetrafluoroethane   | 3.16 | 85   | 1439609  | 9.259  | ppbv  | 97     |
| 9) Propene                     | 2.98 | 41   | 584877   | 11.635 | ppbv  | 99     |
| 10) Heptane                    | 8.14 | 43   | 1463432  | 11.311 | ppbv  | 98     |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 1461567  | 9.493  | ppbv  | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1035554  | 9.542  | ppbv  | 96     |
| 13) Ethanol                    | 3.58 | 45   | 123817   | 7.797  | ppbv  | 99     |
| 14) Bromoethene                | 3.72 | 108  | 461898   | 10.201 | ppbv  | 100    |
| 15) Acetone                    | 3.83 | 43   | 1249254  | 9.839  | ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.30 | 39   | 637223   | 10.841 | ppbv  | 96     |
| 17) tert-Butyl alcohol         | 4.28 | 59   | 935734   | 9.617  | ppbv  | 98     |
| 18) 1,1-Dichloroethene         | 4.27 | 96   | 479548   | 9.842  | ppbv  | 93     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 691422   | 9.142  | ppbv  | # 99   |
| 20) Methylene Chloride         | 4.33 | 84   | 413185   | 8.750  | ppbv  | 96     |
| 21) Allyl Chloride             | 4.40 | 41   | 876594   | 10.434 | ppbv  | 97     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 487568   | 10.263 | ppbv  | 96     |
| 23) Vinyl Acetate              | 5.07 | 43   | 2086679  | 12.088 | ppbv  | 98     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1333377  | 9.672  | ppbv  | 100    |
| 25) Ethyl Acetate              | 5.68 | 43   | 2404635  | 10.698 | ppbv  | 99     |
| 26) Hexane                     | 5.69 | 57   | 1062198  | 10.253 | ppbv  | 96     |
| 27) Carbon Disulfide           | 4.54 | 76   | 1212820  | 10.313 | ppbv  | 97     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1691489  | 11.429 | ppbv  | 100    |
| 29) Chloroform                 | 5.75 | 83   | 1596952  | 9.675  | ppbv  | 98     |
| 30) Cyclohexane                | 7.14 | 84   | 889147   | 11.075 | ppbv  | 98     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61   | 1115831  | 10.945 | ppbv  | 96     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97   | 1555337  | 10.091 | ppbv  | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 1625791  | 10.859 | ppbv  | 98     |
| 35) Carbon Tetrachloride       | 7.03 | 117  | 1571541  | 9.866  | ppbv  | 98     |
| 36) Benzene                    | 6.90 | 78   | 2140634  | 10.420 | ppbv  | 96     |
| 37) 1,2-Dichloroethane         | 6.32 | 62   | 1251720  | 9.666  | ppbv  | 99     |
| 38) Trichloroethene            | 7.85 | 130  | 790038   | 9.977  | ppbv  | 93     |
| 39) 1,2-Dichloropropane        | 7.63 | 63   | 866013   | 10.596 | ppbv  | 94     |
| 40) 1,4-Dioxane                | 7.85 | 88   | 287639   | 10.349 | ppbv  | 80     |
| 41) Tetrahydrofuran            | 6.05 | 42   | 938020   | 11.870 | ppbv  | 98     |
| 42) Bromodichloromethane       | 7.81 | 83   | 1713735  | 10.108 | ppbv  | 96     |
| 43) Methyl Methacrylate        | 8.03 | 69   | 989166   | 11.448 | ppbv  | 97     |

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 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

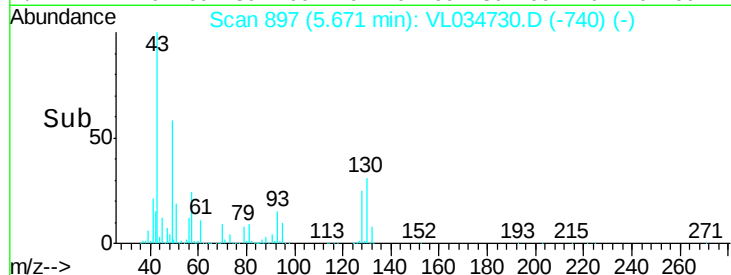
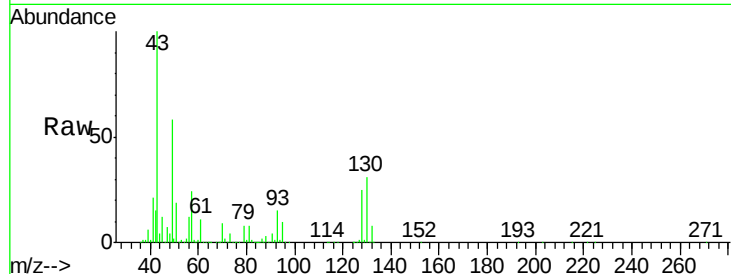
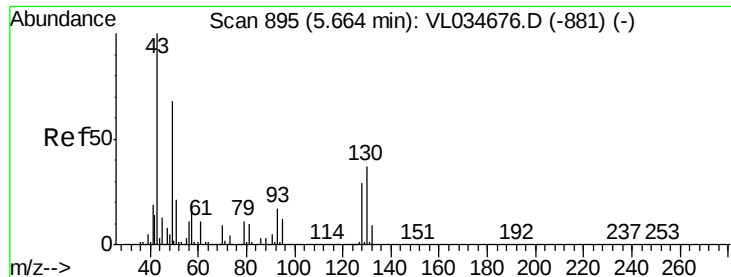
MMDadoda  
 2/28/2020 12:34:11 PM

Quant Time: Feb 28 07:36:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Feb 28  
 QLast Update : Fri Feb 28 01:15:02 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 3655688  | 10.182 | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.31  | 75   | 1147143  | 12.166 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.73  | 75   | 1341526  | 11.863 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.51  | 97   | 859145   | 10.246 | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.34 | 129  | 1384553  | 10.619 | ppbv   | 98       |
| 49) Bromoform                 | 13.09 | 173  | 1190104  | 10.528 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 2402109  | 11.328 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.16 | 43   | 1990905  | 11.931 | ppbv   | 98       |
| 52) Tetrachloroethene         | 11.26 | 164  | 720246   | 9.565  | ppbv   | 97       |
| 53) Toluene                   | 9.83  | 91   | 2439457  | 11.165 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 1292358  | 10.331 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 1028417  | 9.242  | ppbv # | 62       |
| 57) Chlorobenzene             | 12.19 | 112  | 1760118  | 9.114  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.75 | 91   | 3224375  | 10.200 | ppbv   | 97       |
| 59) m/p-Xylene                | 13.03 | 91   | 5213770m | 18.911 | ppbv   |          |
| 60) o-Xylene                  | 13.73 | 91   | 2549858  | 9.320  | ppbv   | 100      |
| 61) Styrene                   | 13.57 | 104  | 1873616  | 10.661 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.71 | 105  | 3726430  | 9.337  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.72 | 83   | 1772759  | 8.314  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.60 | 120  | 977581   | 9.501  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.79 | 119  | 3201970  | 9.291  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.04 | 91   | 1456325  | 11.329 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.35 | 105  | 4559046  | 9.194  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.70 | 119  | 3821435  | 9.361  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.60 | 91   | 4106234  | 9.238  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.50 | 91   | 2885162  | 9.334  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.88 | 105  | 3016886  | 9.907  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.04 | 105  | 2822107  | 9.634  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.81 | 105  | 2913392  | 9.006  | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 17.05 | 146  | 1657963  | 8.878  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.19 | 146  | 1691191  | 9.052  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.87 | 146  | 1653878  | 9.161  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.43 | 225  | 1519958  | 9.669  | ppbv   | 99       |
| 79) Naphthalene               | 22.27 | 128  | 2989696  | 10.501 | ppbv   | 96       |
| 80) Naphthalene, 2-methyl-    | 25.02 | 142  | 1211146  | 13.792 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 22.00 | 180  | 1724574  | 10.149 | ppbv   | 100      |

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





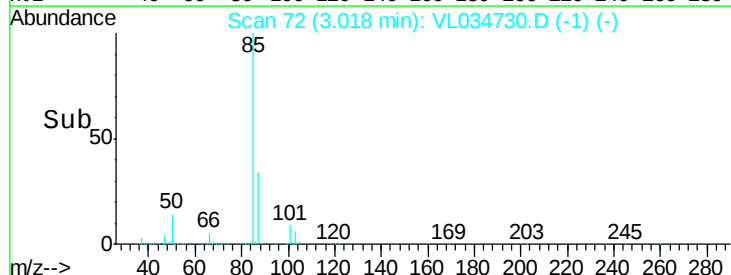
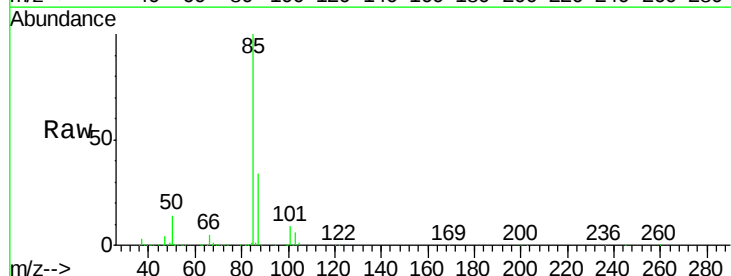
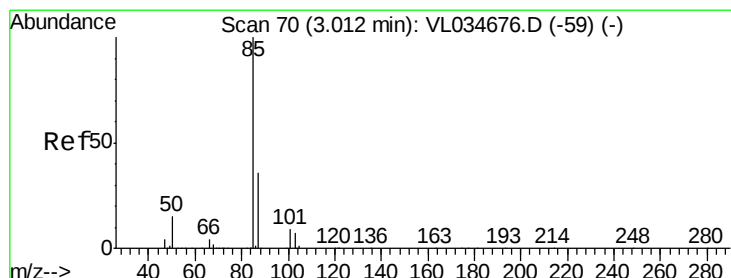
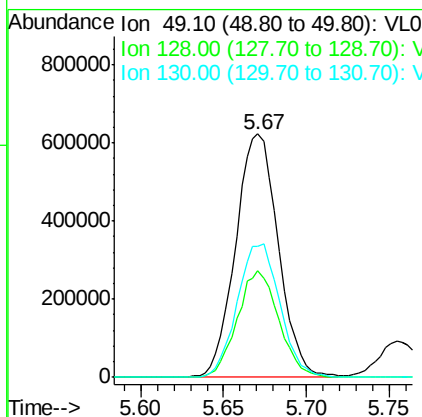
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tot Ion: 49 Resp: 1114291  
Ion Ratio Lower Upper  
49 100  
128 42.7 21.6 65.0  
130 55.4 27.7 83.1

Instrument :  
MSVOA\_L  
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VSTDCCC010EC

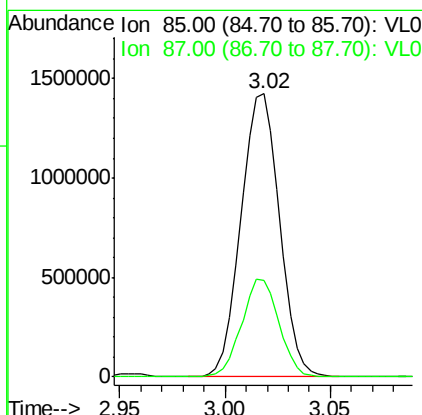
Manual Integrations  
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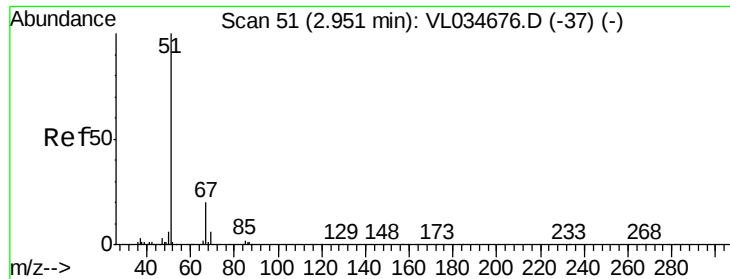
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#2  
Dichlorodifluoromethane  
Concen: 10.285 ppbv  
RT: 3.02 min Scan# 72  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 85 Resp: 1807961  
Ion Ratio Lower Upper  
85 100  
87 34.3 29.2 43.8





#3

Chlorodifluoromethane

Concen: 10.082 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Tot Ion: 51 Resp: 1212355

Ion Ratio Lower Upper

51 100

67 17.8 15.5 23.3

Instrument :

MSVOA\_L

ClientSampleId :

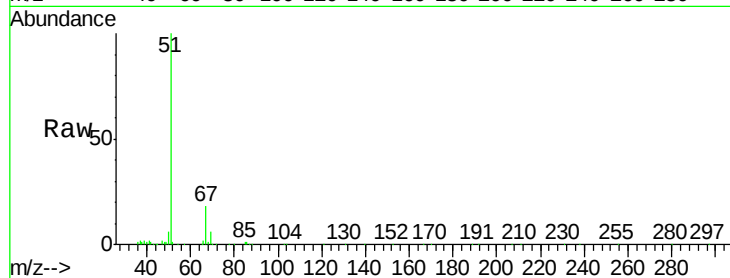
VSTDCCC010EC

Manual Integrations

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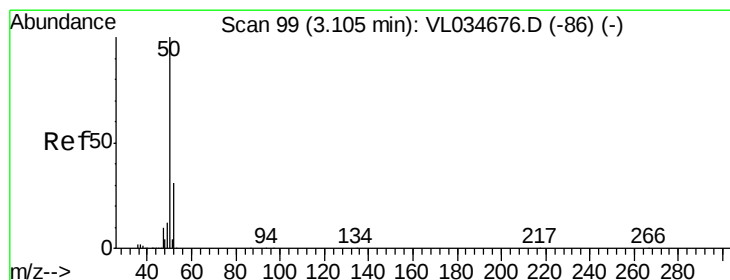
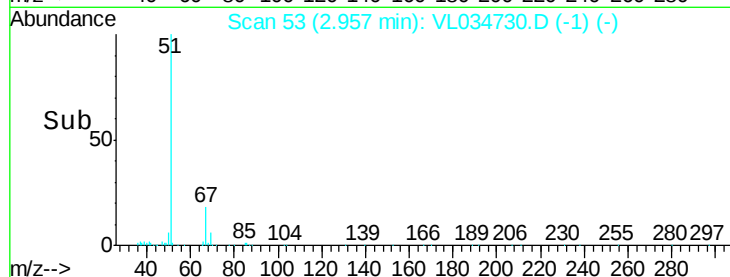
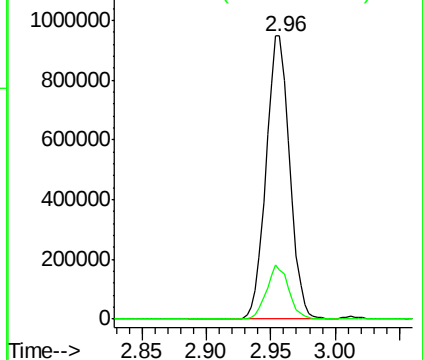
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.670 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034730.D

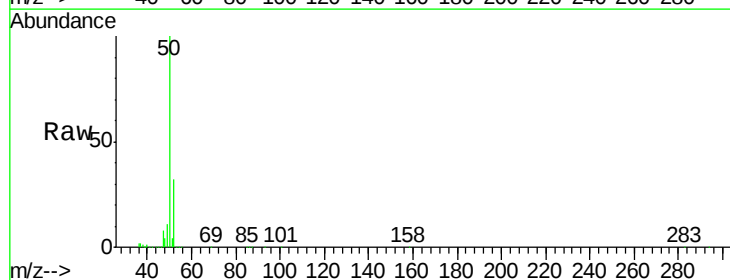
Acq: 28 Feb 2020 5:12

Tgt Ion: 50 Resp: 718283

Ion Ratio Lower Upper

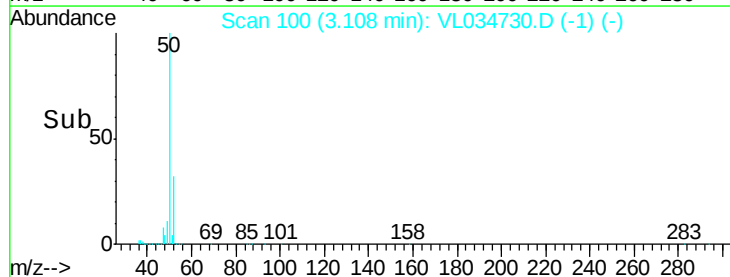
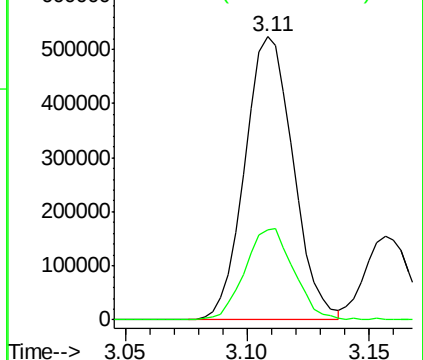
50 100

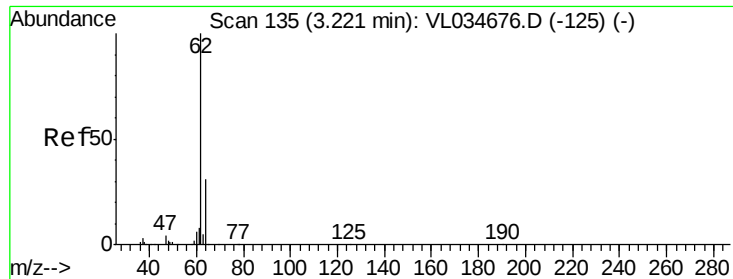
52 32.0 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.112 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 667787

Ion Ratio Lower Upper

62 100

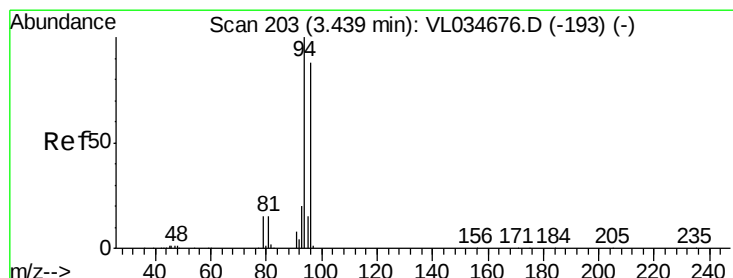
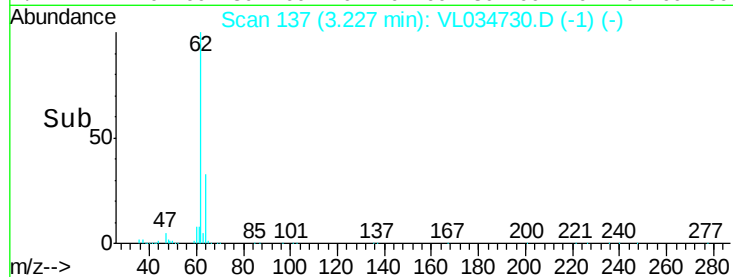
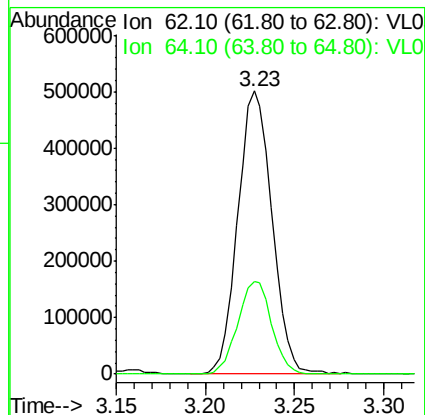
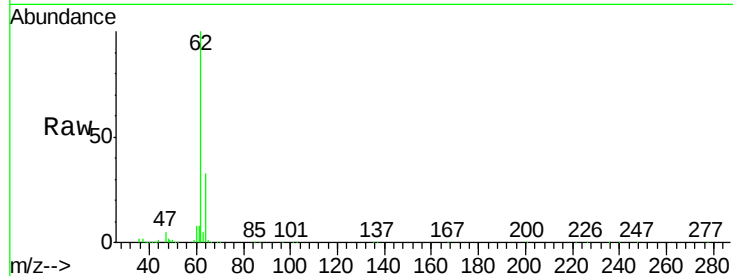
64 32.6 24.7 37.1

Manual Integrations

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#6

Bromomethane

Concen: 9.877 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL034730.D

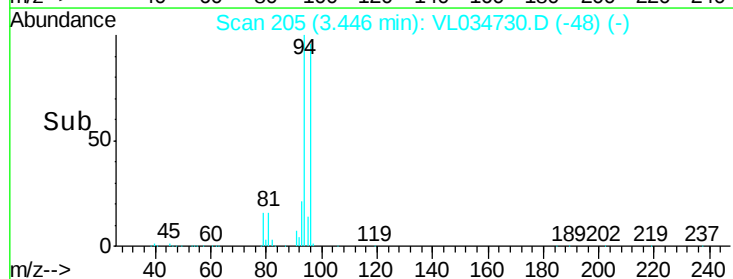
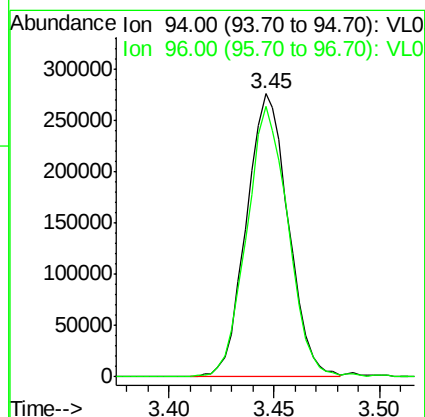
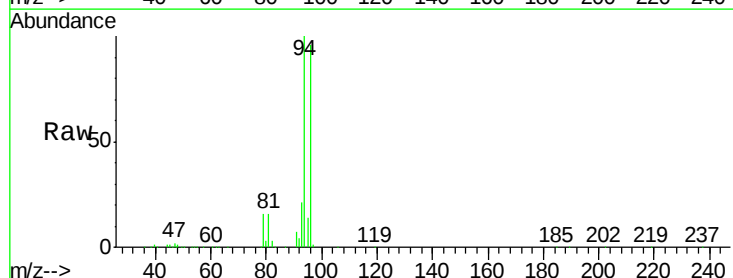
Acq: 28 Feb 2020 5:12

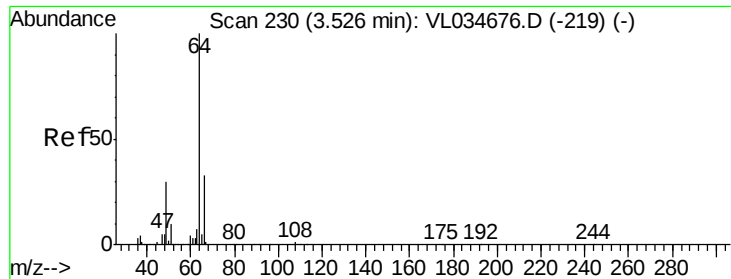
Tgt Ion: 94 Resp: 382146

Ion Ratio Lower Upper

94 100

96 95.5 70.5 105.7





#7

Chloroethane

Concen: 9.889 ppbv

RT: 3.53 min Scan# 231

Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Tot Ion: 64 Resp: 242434

Ion Ratio Lower Upper

64 100

66 30.2 26.7 40.1

Instrument :

MSVOA\_L

ClientSampleId :

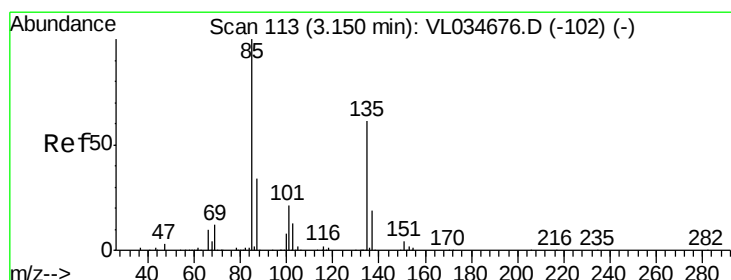
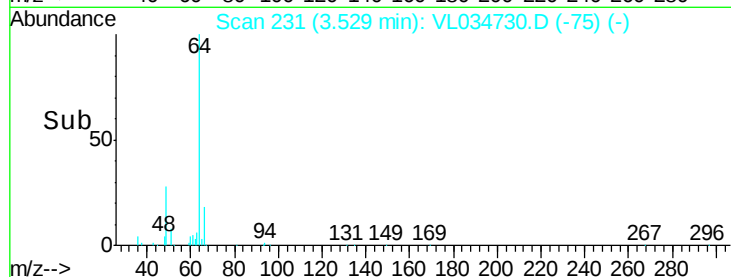
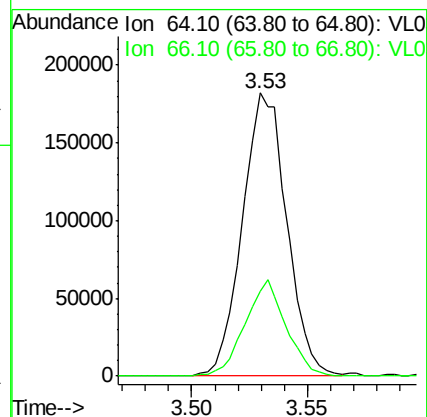
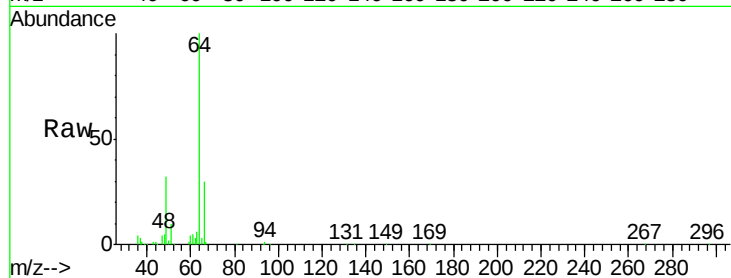
VSTDCCC010EC

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.259 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL034730.D

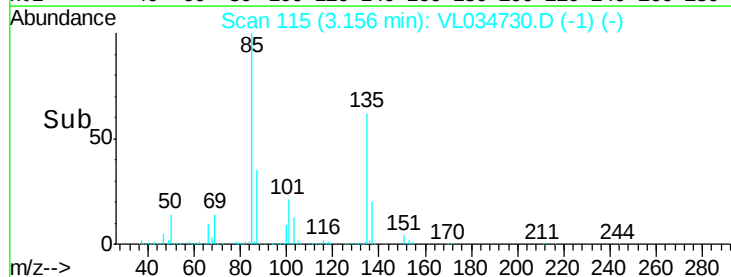
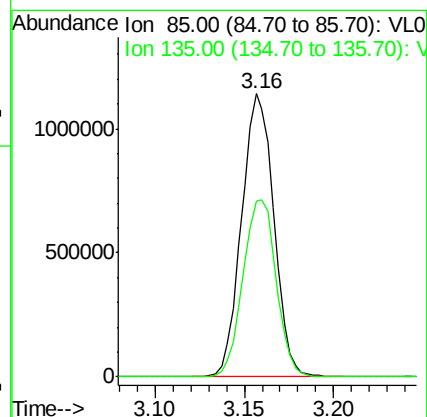
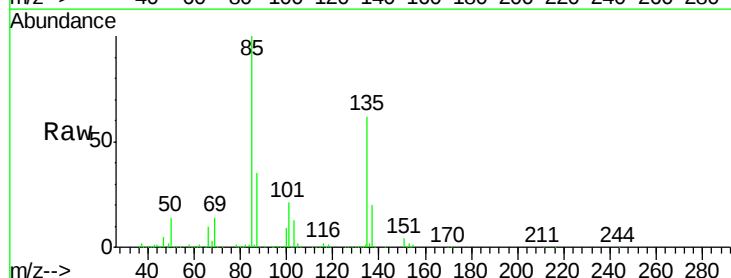
Acq: 28 Feb 2020 5:12

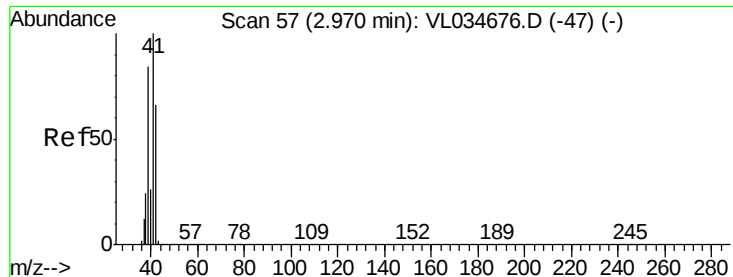
Tgt Ion: 85 Resp: 1439609

Ion Ratio Lower Upper

85 100

135 64.8 49.8 74.6





#9

Propene

Concen: 11.635 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 584877

Ion Ratio Lower Upper

41 100

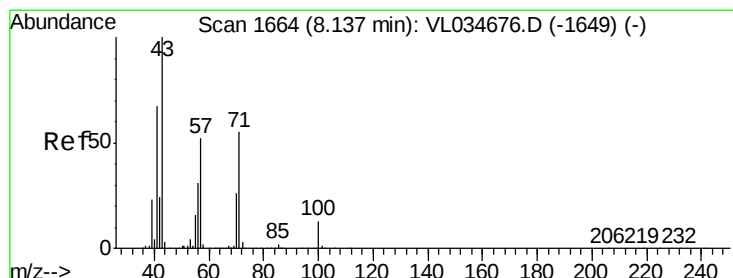
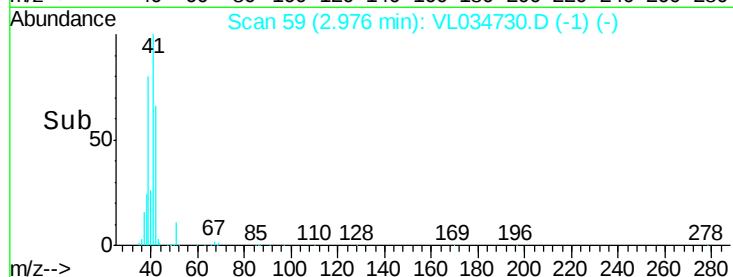
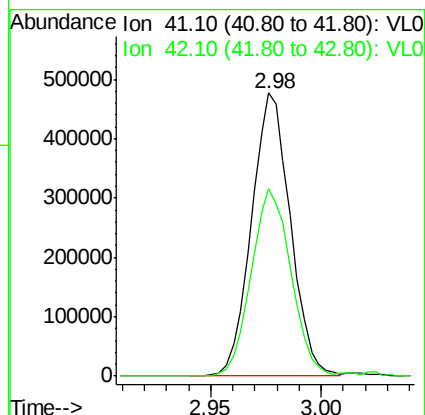
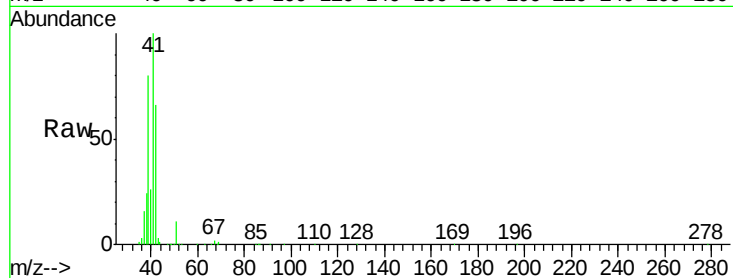
42 69.0 54.9 82.3

Manual Integrations

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#10

Heptane

Concen: 11.311 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL034730.D

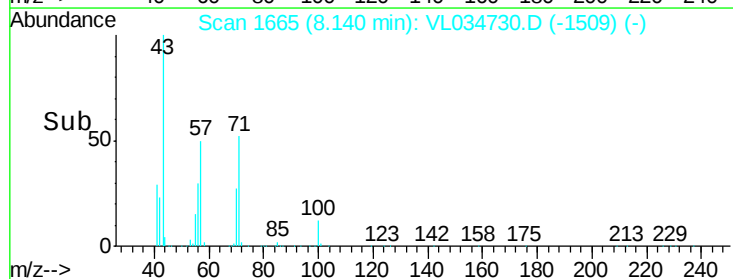
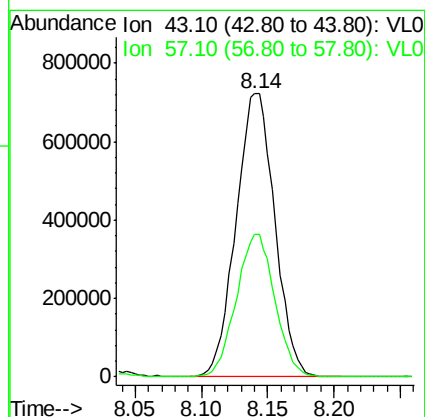
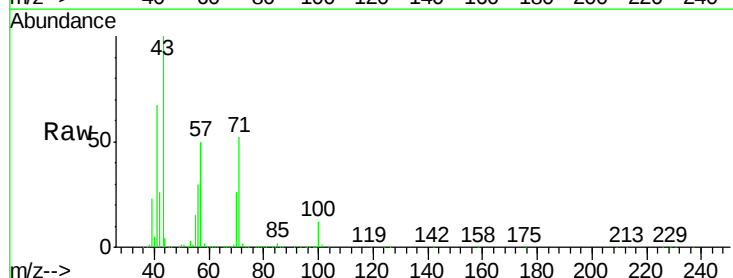
Acq: 28 Feb 2020 5:12

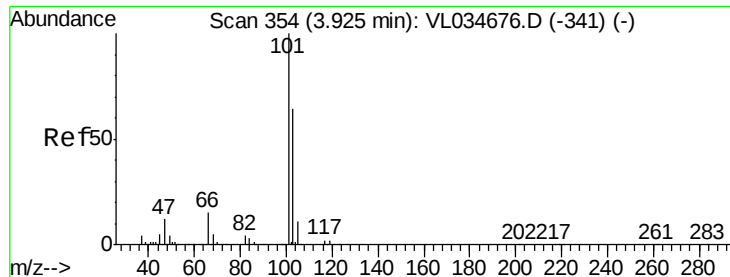
Tgt Ion: 43 Resp: 1463432

Ion Ratio Lower Upper

43 100

57 50.1 41.0 61.6





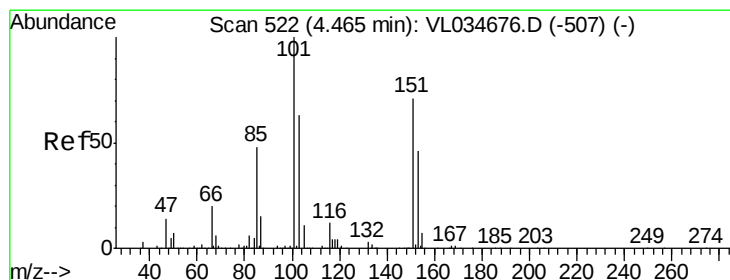
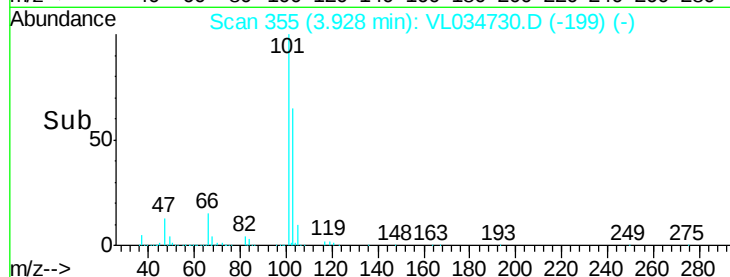
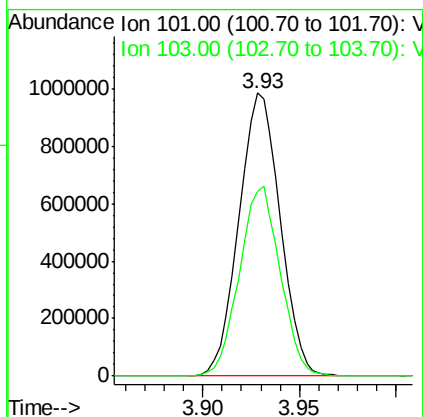
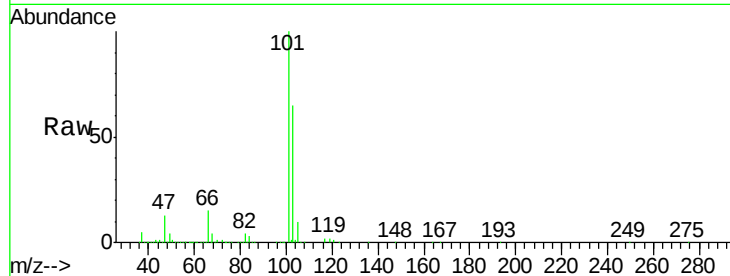
#11  
 Trichlorofluoromethane  
 Concen: 9.493 ppbv  
 RT: 3.93 min Scan# 355  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:101 Resp: 1461567  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 51.2 76.8

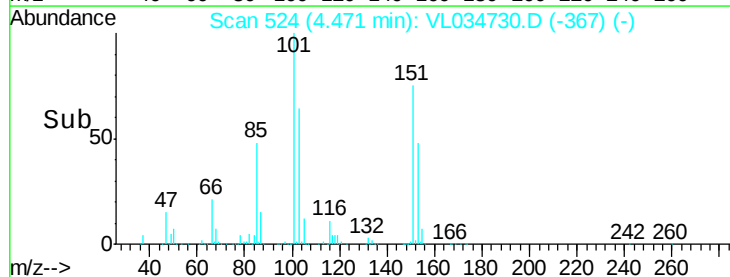
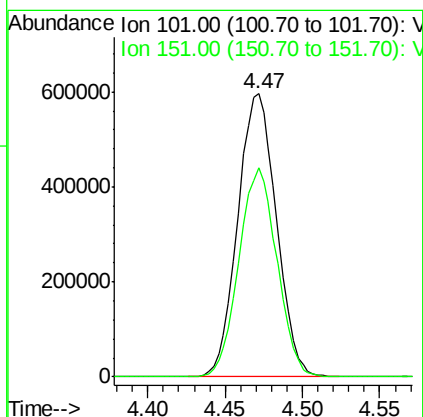
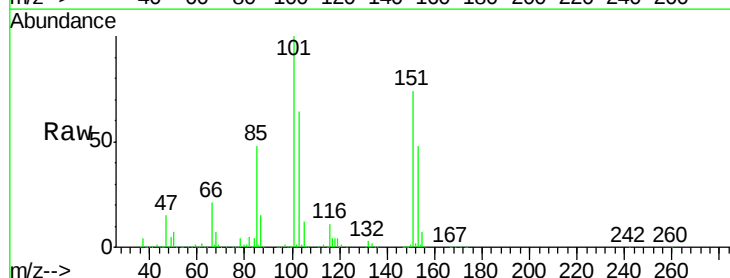
Manual Integrations  
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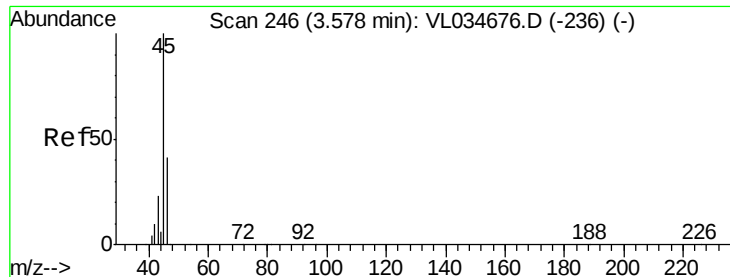
MMDadoda  
 2/28/2020 12:34:11 PM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.542 ppbv  
 RT: 4.47 min Scan# 524  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Tgt Ion:101 Resp: 1035554  
 Ion Ratio Lower Upper  
 101 100  
 151 72.9 55.8 83.6





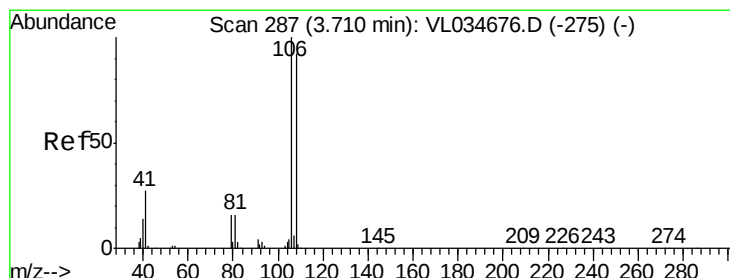
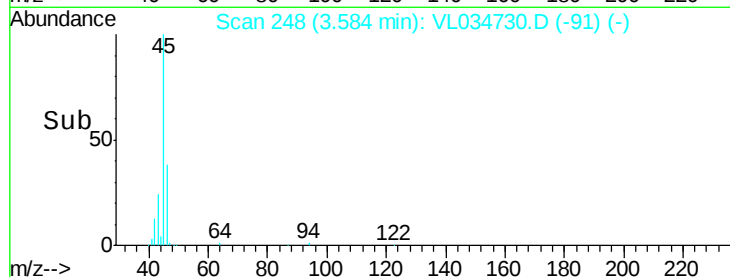
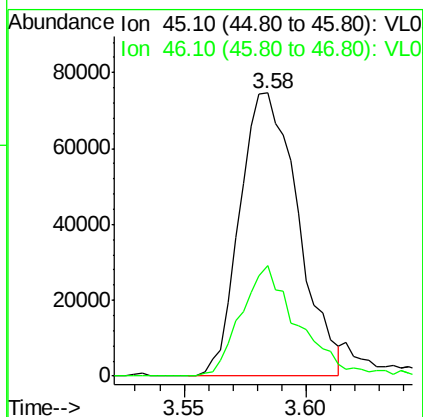
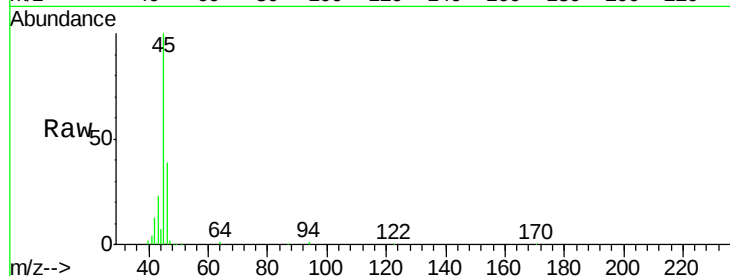
#13  
Ethanol  
Concen: 7.797 ppbv  
RT: 3.58 min Scan# 248  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | 45  | 46   | Ratio | Lower | Upper |
|---------|-----|------|-------|-------|-------|
| 123817  | 100 | 38.9 |       | 15.4  | 61.4  |

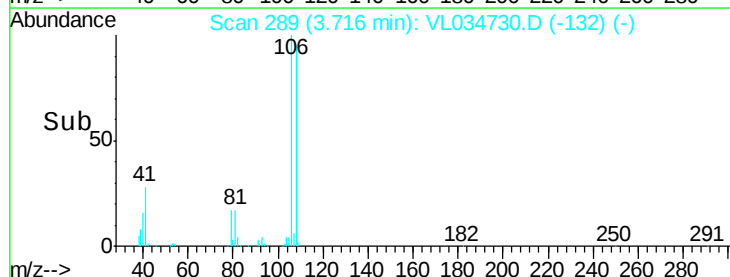
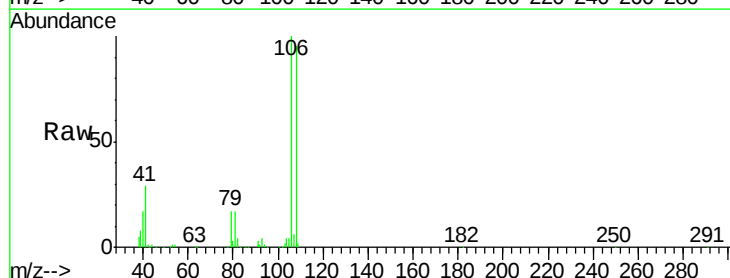
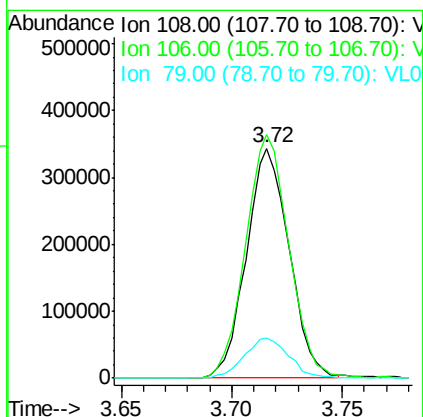
Manual Integrations  
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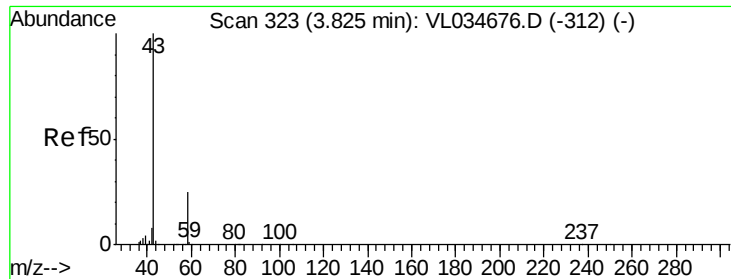
MMDadoda  
2/28/2020 12:34:11 PM



#14  
Bromoethene  
Concen: 10.201 ppbv  
RT: 3.72 min Scan# 289  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tgt Ion | 108 | 106   | 79   | Ratio | Lower | Upper |
|---------|-----|-------|------|-------|-------|-------|
| 461898  | 100 | 108.0 | 18.5 |       | 86.7  | 130.1 |
|         |     |       |      |       | 15.0  | 22.6  |





#15

Acetone

Concen: 9.839 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1249254

Ion Ratio Lower Upper

43 100

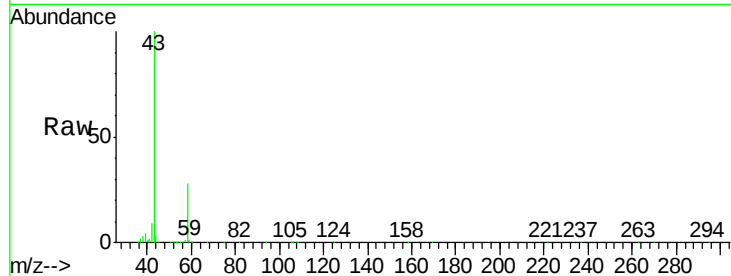
58 26.6 21.4 32.0

Manual Integrations

APPROVED

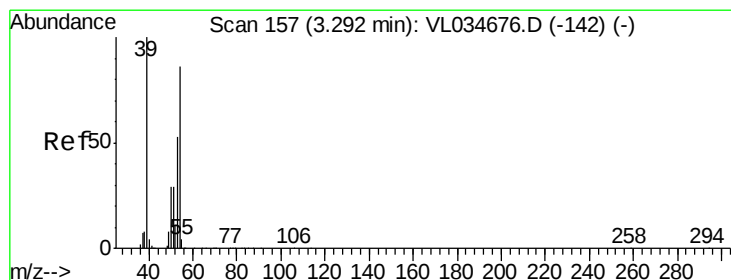
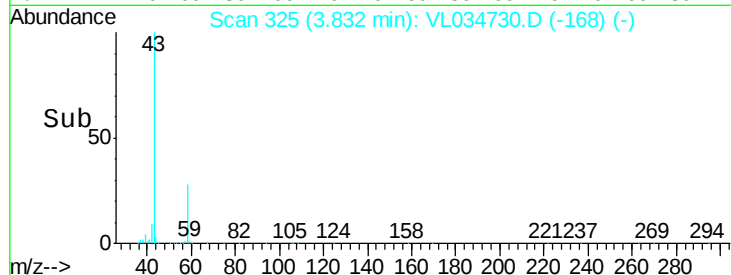
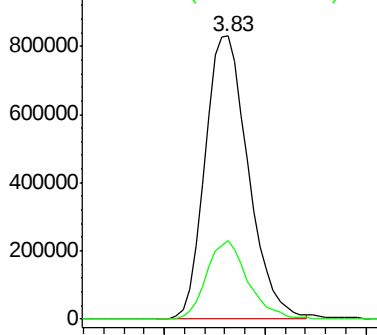
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.841 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.01 min

Lab File: VL034730.D

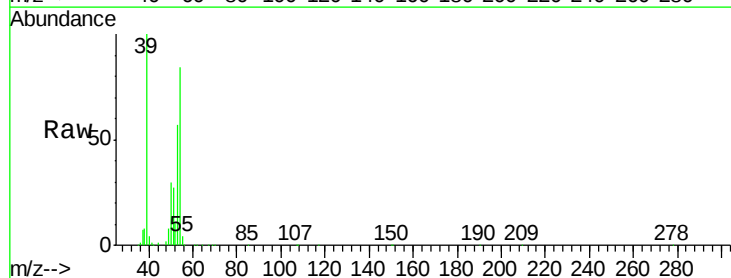
Acq: 28 Feb 2020 5:12

Tgt Ion: 39 Resp: 637223

Ion Ratio Lower Upper

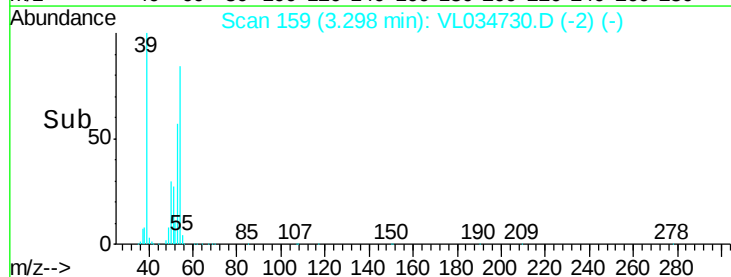
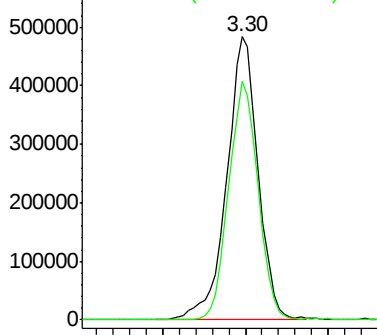
39 100

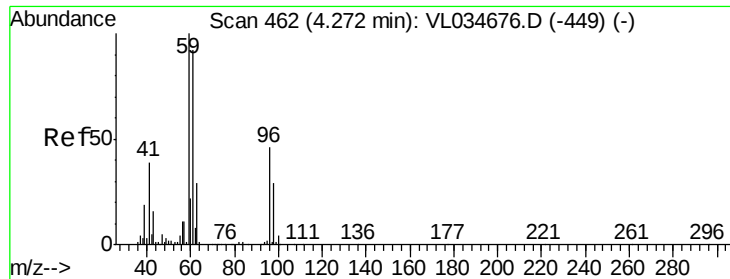
54 79.9 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

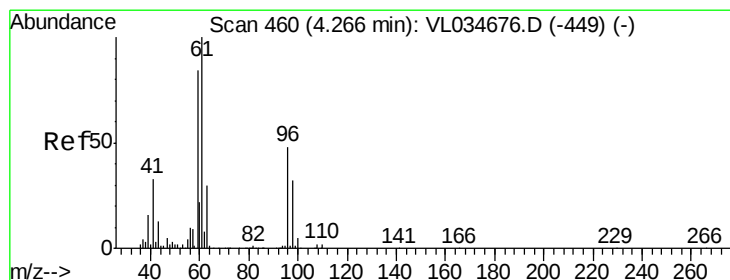
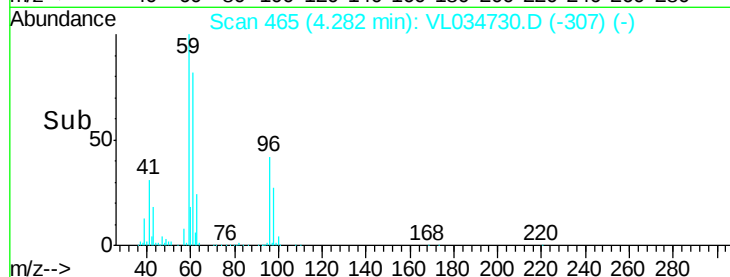
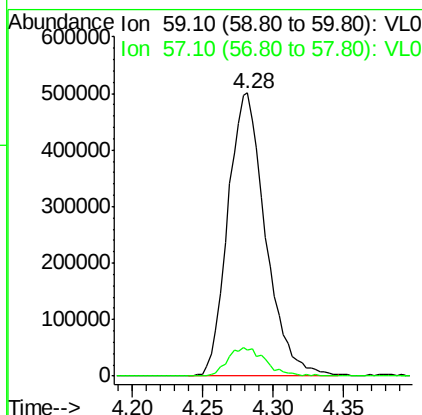
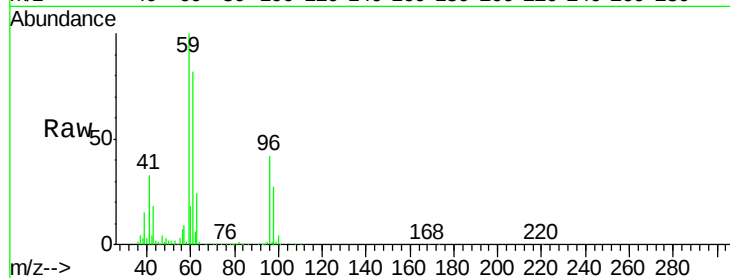
tert-Butyl alcohol  
Concen: 9.617 ppbv  
RT: 4.28 min Scan# 465  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 10.2  | 8.8   | 13.2  |

Manual Integrations  
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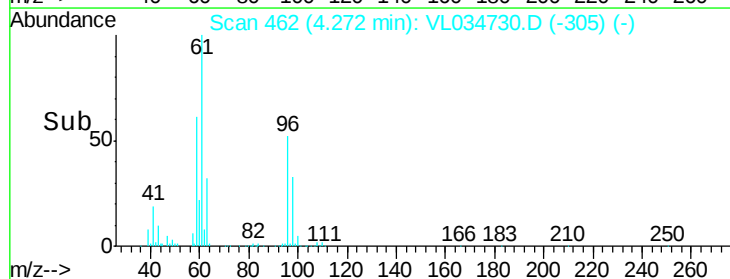
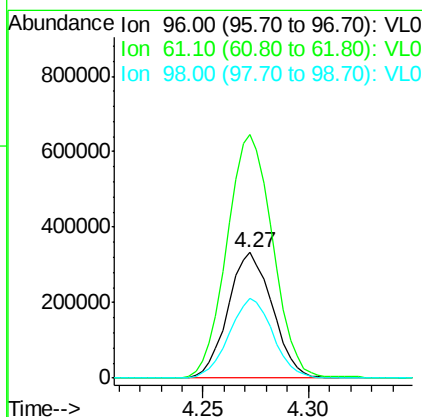
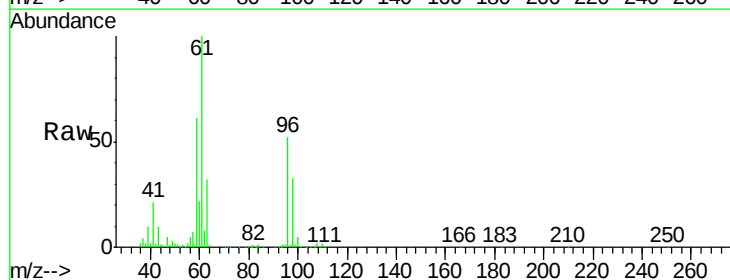
MMDadoda  
2/28/2020 12:34:11 PM

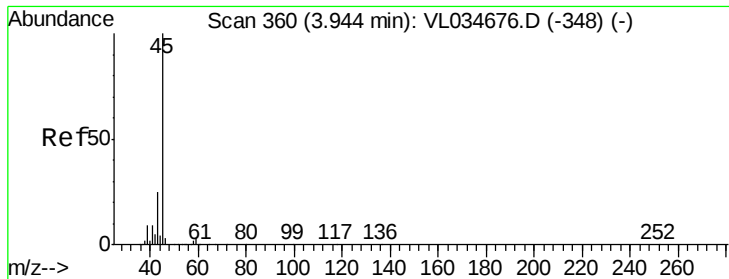


#18

1,1-Dichloroethene  
Concen: 9.842 ppbv  
RT: 4.27 min Scan# 462  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 194.2 | 165.1 | 247.7 |
| 98      | 63.9  | 52.7  | 79.1  |





#19

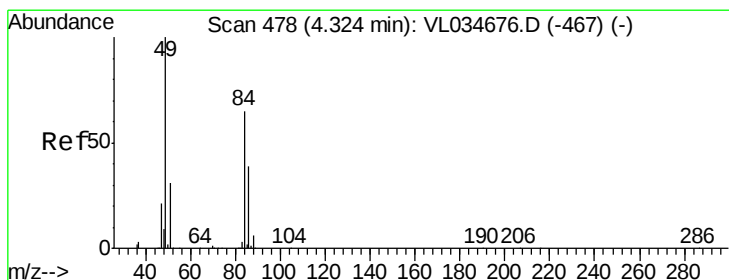
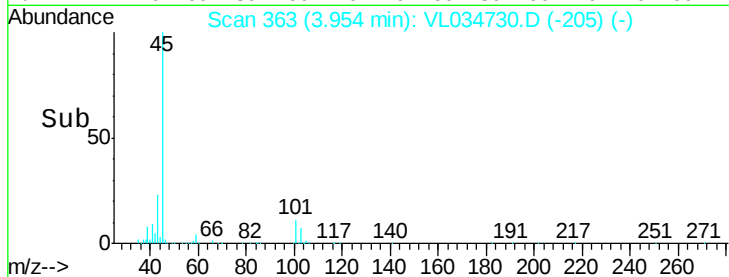
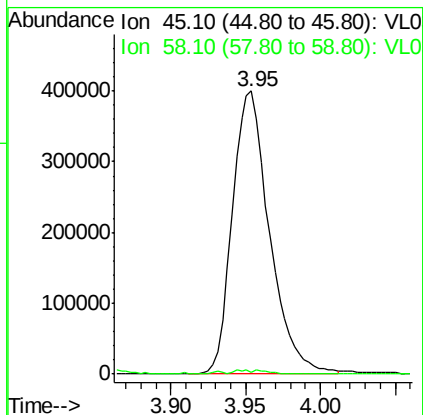
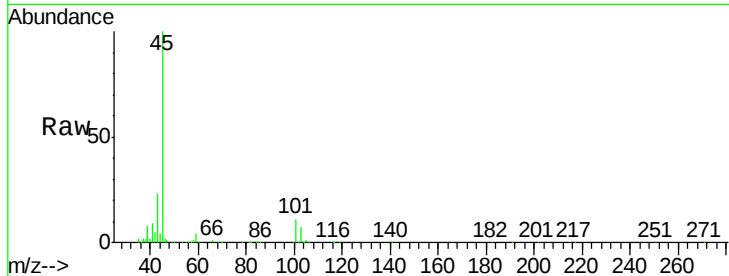
Isopropyl Alcohol  
 Concen: 9.142 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 1.7   | 1.8   | 2.6#  |

Manual Integrations  
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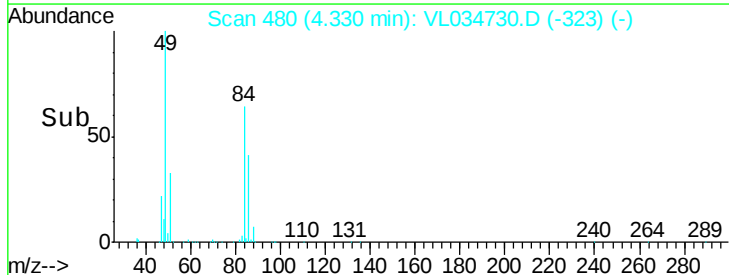
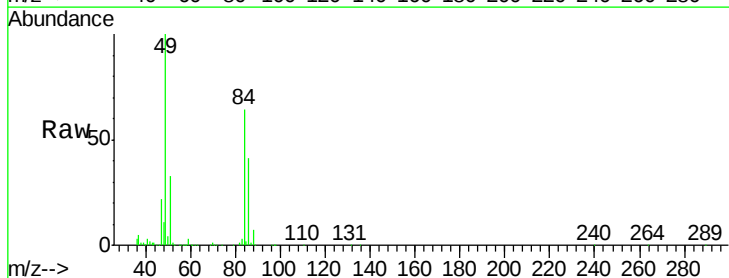
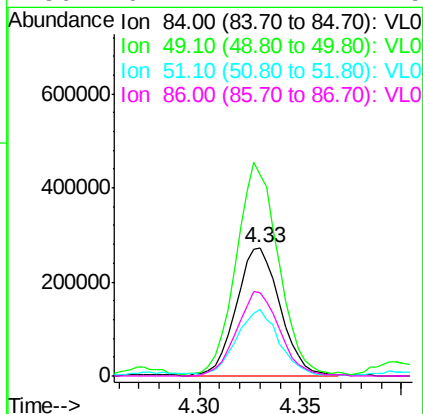
MMDadoda  
 2/28/2020 12:34:11 PM

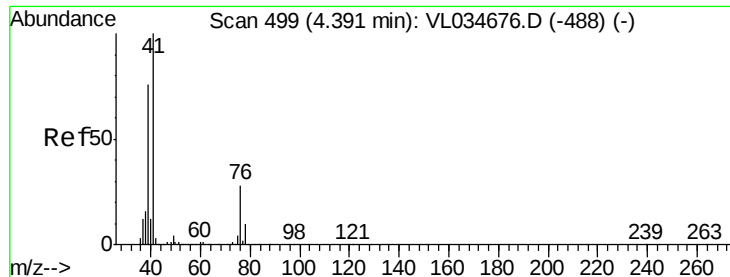


#20

Methylene Chloride  
 Concen: 8.750 ppbv  
 RT: 4.33 min Scan# 480  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 155.8 | 122.8 | 184.2 |
| 51      | 51.8  | 38.6  | 58.0  |
| 86      | 64.7  | 47.7  | 71.5  |





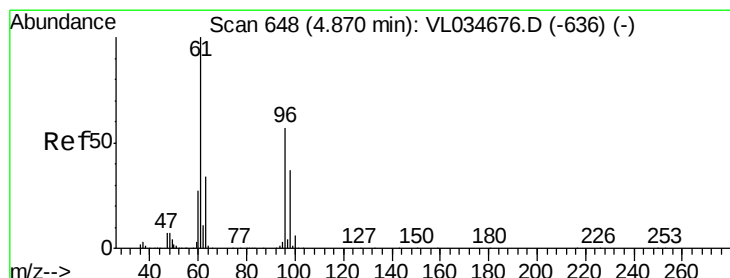
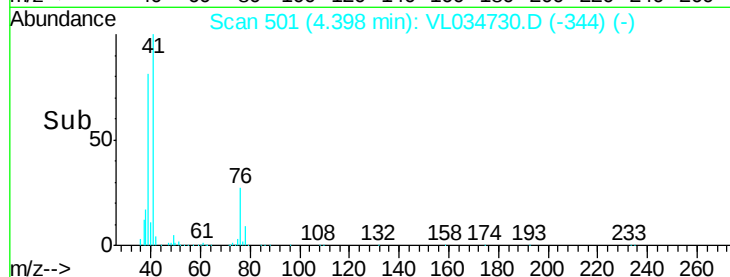
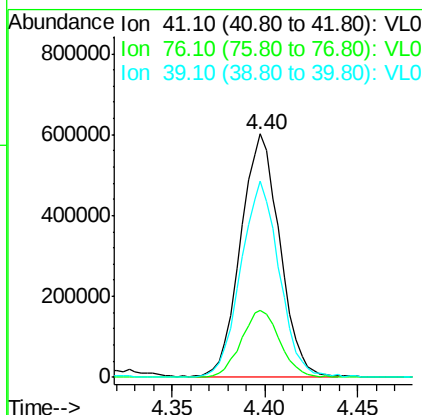
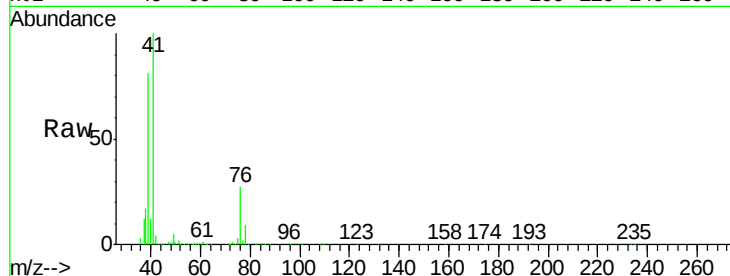
#21  
Allvl Chloride  
Concen: 10.434 ppbv  
RT: 4.40 min Scan# 501  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 27.5  | 22.8  | 34.2  |
| 39      | 80.0  | 61.7  | 92.5  |

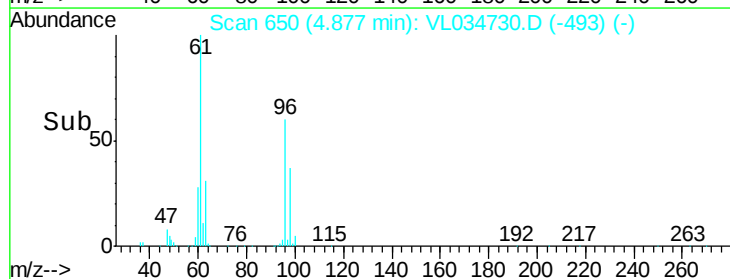
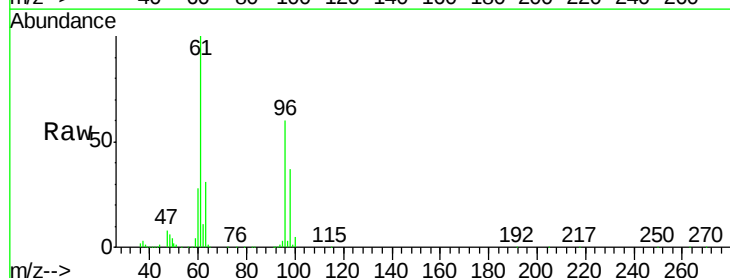
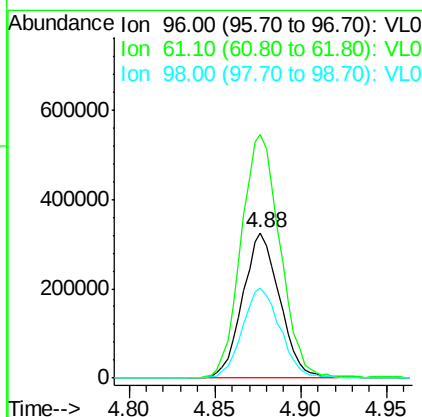
Manual Integrations  
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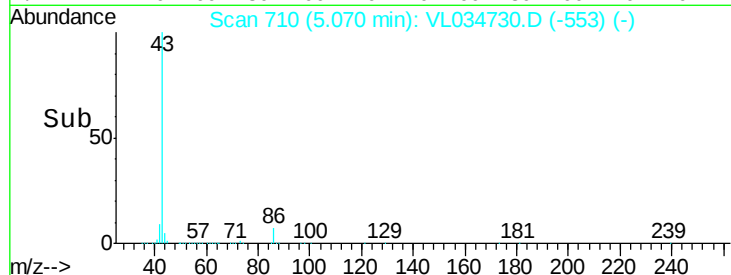
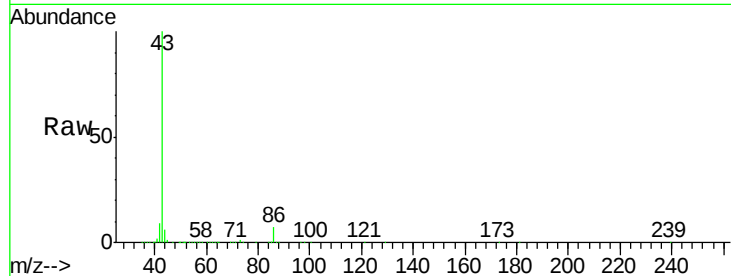
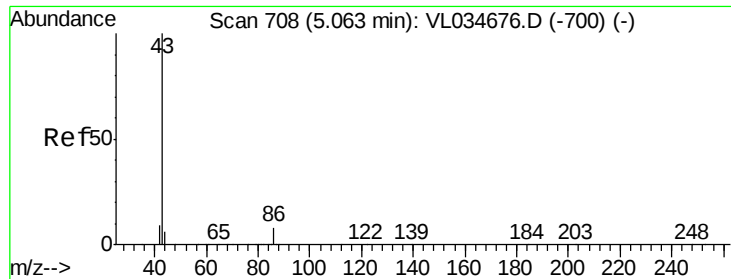
MMDadoda  
2/28/2020 12:34:11 PM



#22  
trans-1,2-Dichloroethene  
Concen: 10.263 ppbv  
RT: 4.88 min Scan# 650  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 167.9 | 139.4 | 209.0 |
| 98      | 61.9  | 51.3  | 76.9  |





#23

Vinyl Acetate

Concen: 12.088 ppbv

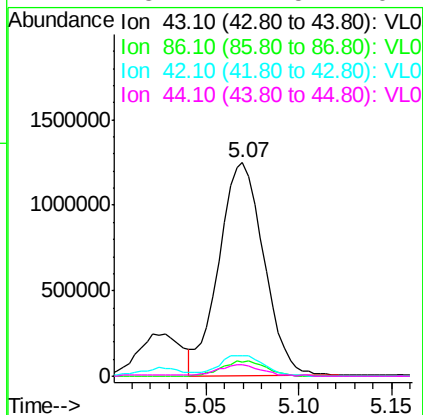
RT: 5.07 min Scan# 710

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 43      | 100 |       |       |       |
| 86      | 6.7 | 6.0   | 9.0   |       |
| 42      | 9.4 | 8.0   | 12.0  |       |
| 44      | 5.4 | 4.5   | 6.7   |       |



Instrument :

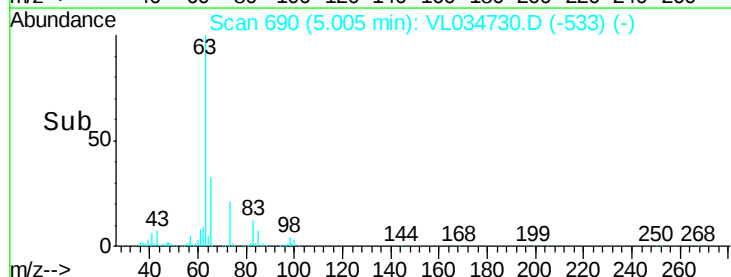
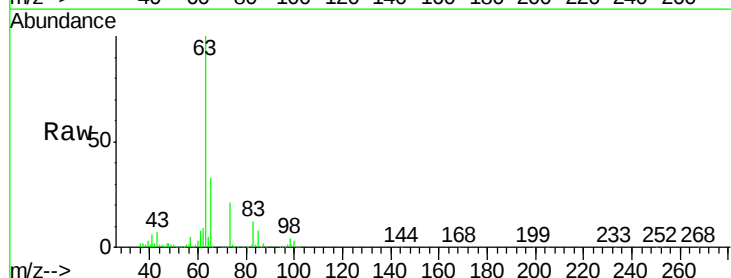
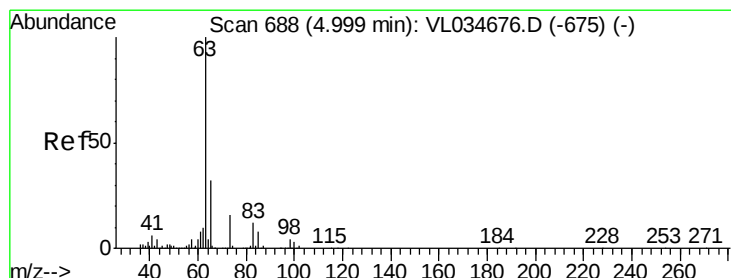
MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations  
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#24

1,1-Dichloroethane

Concen: 9.672 ppbv

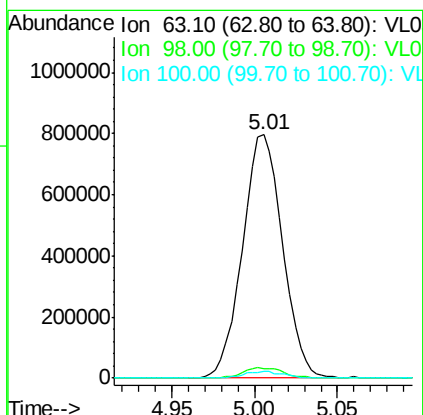
RT: 5.01 min Scan# 690

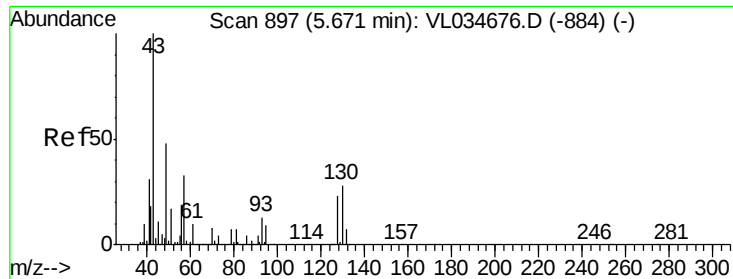
Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 63      | 100 |       |       |       |
| 98      | 4.0 | 2.1   | 6.2   |       |
| 100     | 2.6 | 1.4   | 4.0   |       |





#25

Ethyl Acetate

Concen: 10.698 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2404635

Ion Ratio Lower Upper

43 100

45 10.1 8.2 12.4

61 9.4 7.8 11.6

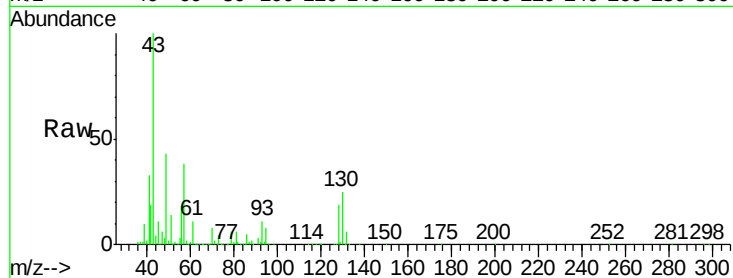
70 7.4 6.1 9.1

Manual Integrations

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2/28/2020 12:34:11 PM

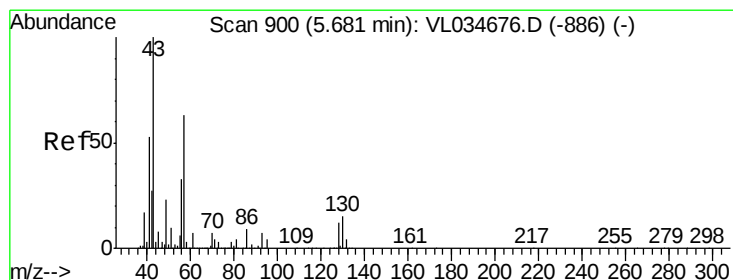
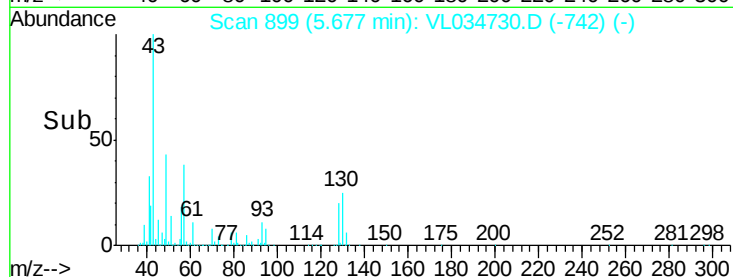
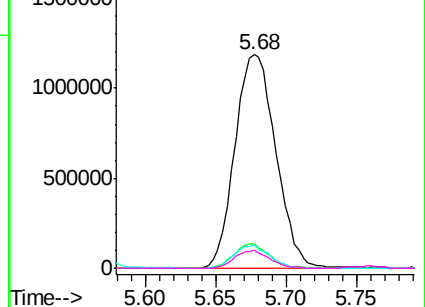


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.253 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Tgt Ion: 57 Resp: 1062198

Ion Ratio Lower Upper

57 100

41 90.1 70.3 105.5

43 228.7 177.0 265.4

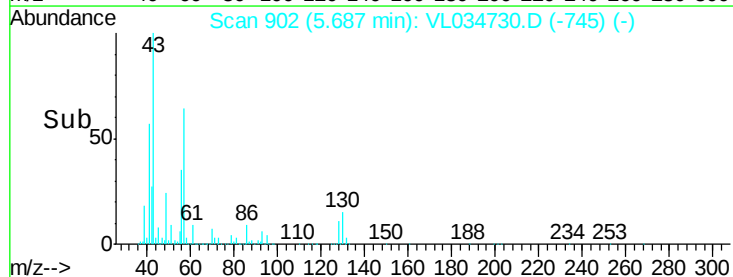
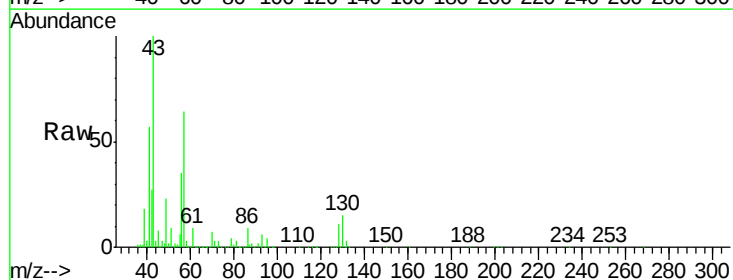
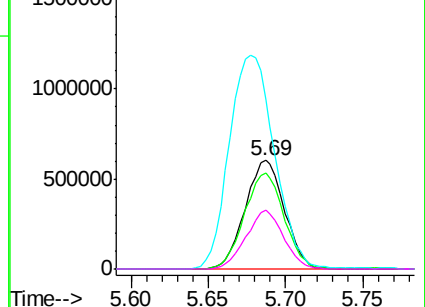
56 52.0 42.6 64.0

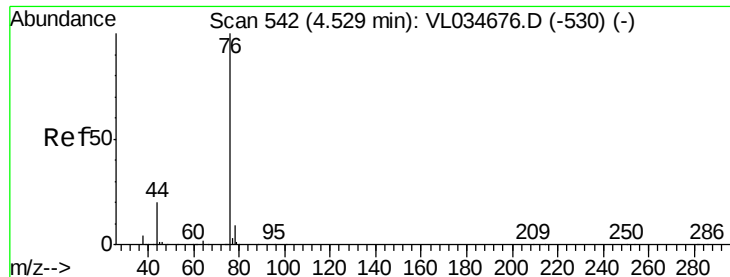
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.313 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1212820

Ion Ratio Lower Upper

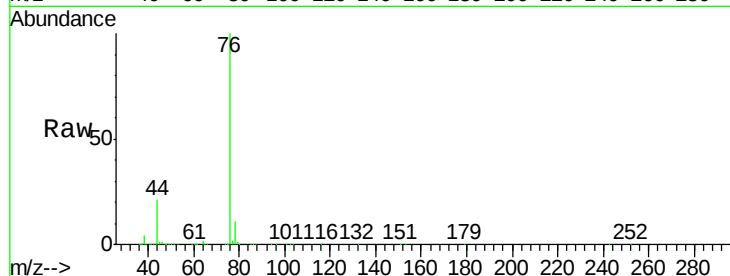
76 100

44 20.8 15.3 22.9

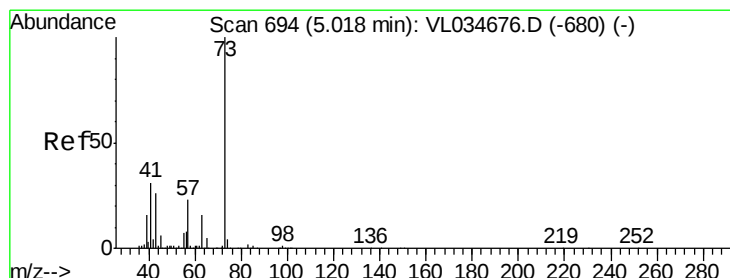
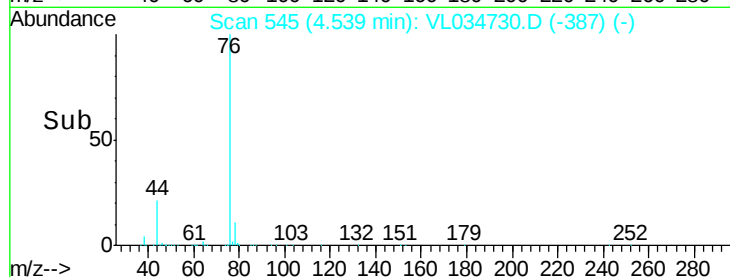
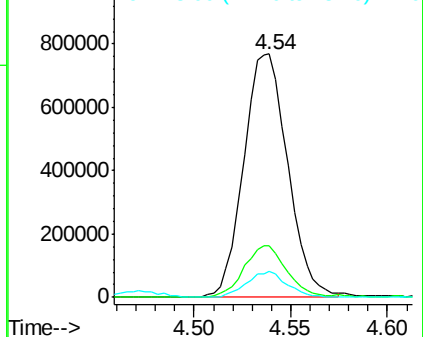
78 9.7 7.6 11.4

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Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.429 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL034730.D

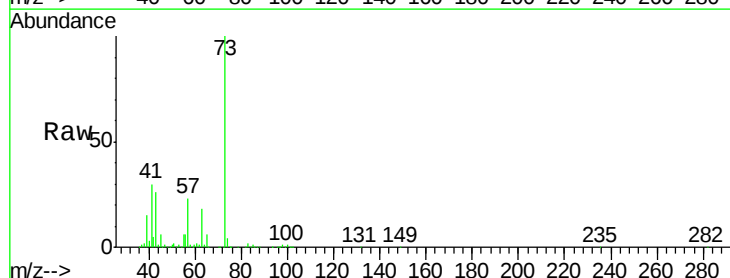
Acq: 28 Feb 2020 5:12

Tgt Ion: 73 Resp: 1691489

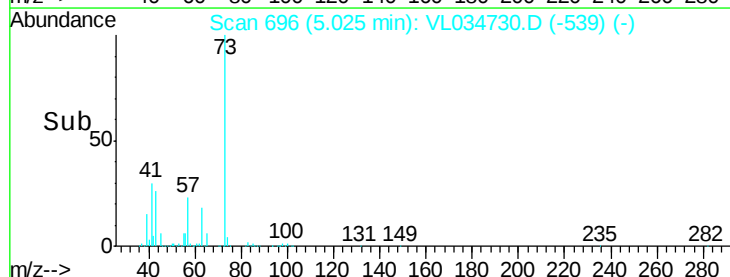
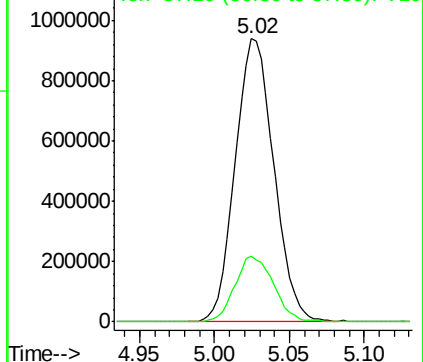
Ion Ratio Lower Upper

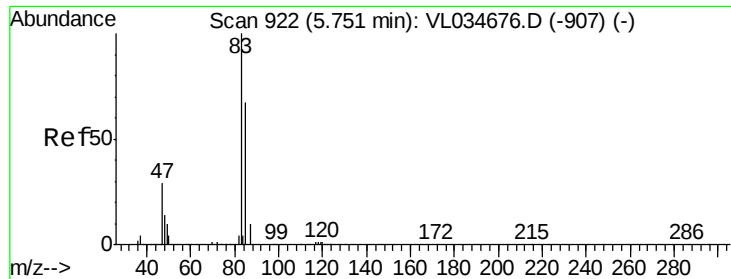
73 100

57 23.4 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





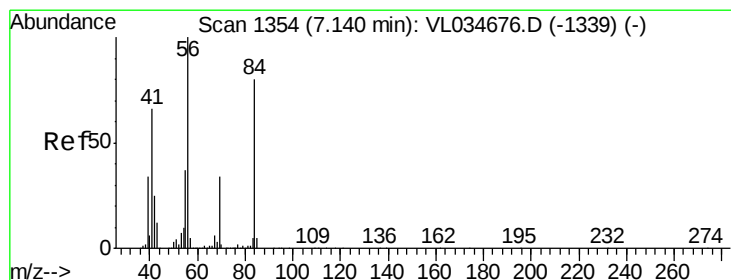
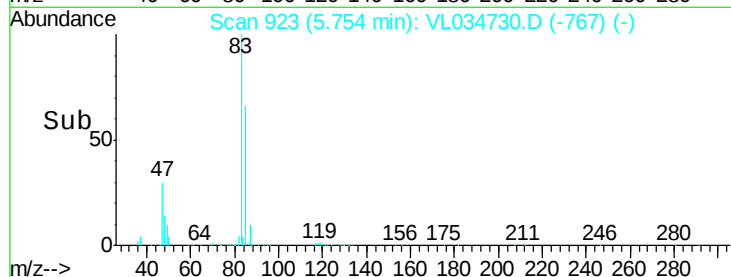
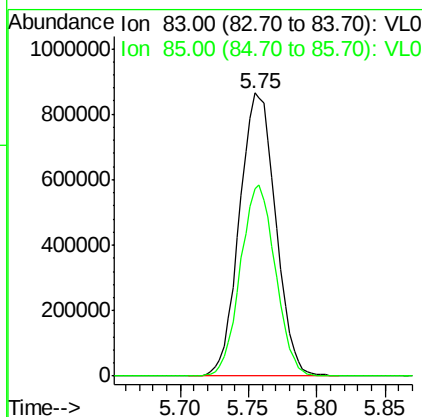
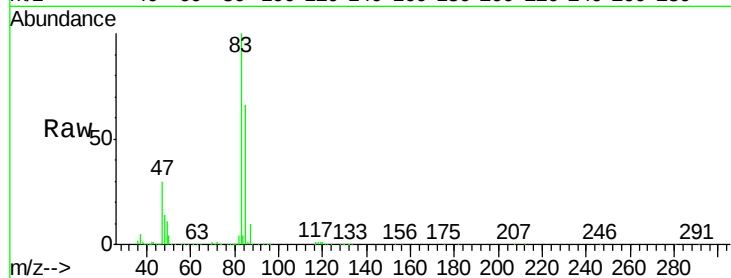
#29  
Chloroform  
Concen: 9.675 ppbv  
RT: 5.75 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 83 Resp: 1596952  
Ion Ratio Lower Upper  
83 100  
85 66.1 53.9 80.9

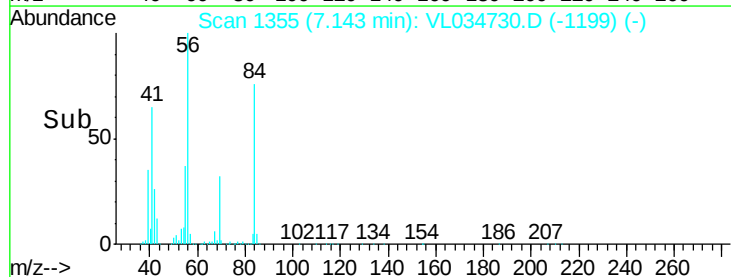
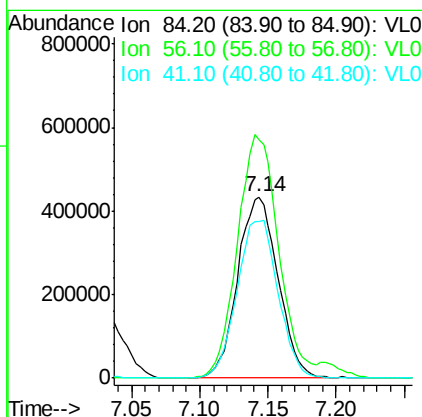
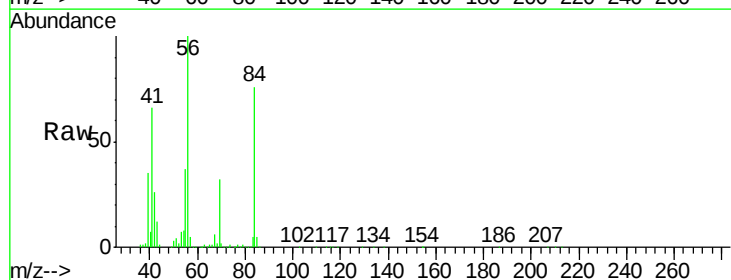
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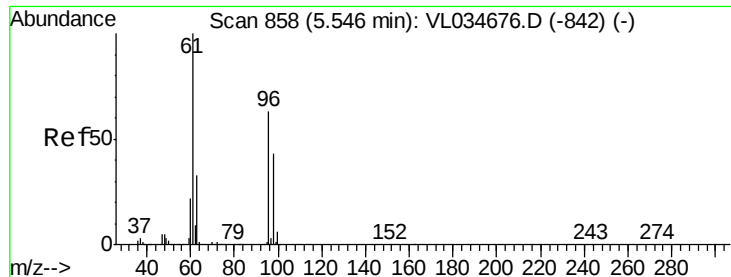
MMDadoda  
2/28/2020 12:34:11 PM



#30  
Cyclohexane  
Concen: 11.075 ppbv  
RT: 7.14 min Scan# 1355  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 84 Resp: 889147  
Ion Ratio Lower Upper  
84 100  
56 143.0 113.4 170.2  
41 89.1 68.2 102.4





#31

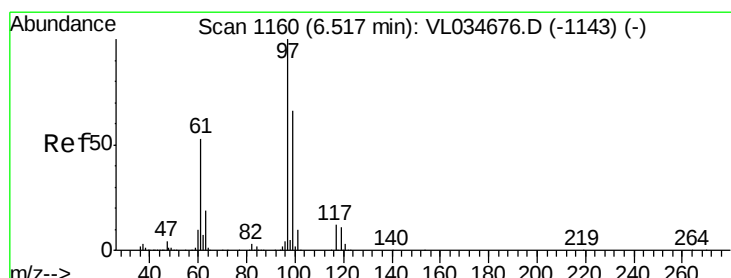
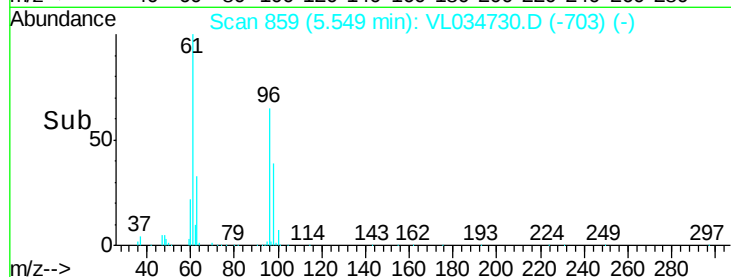
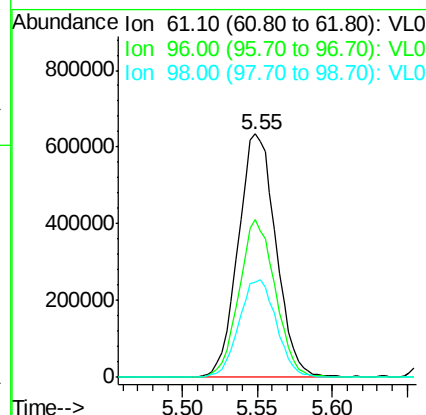
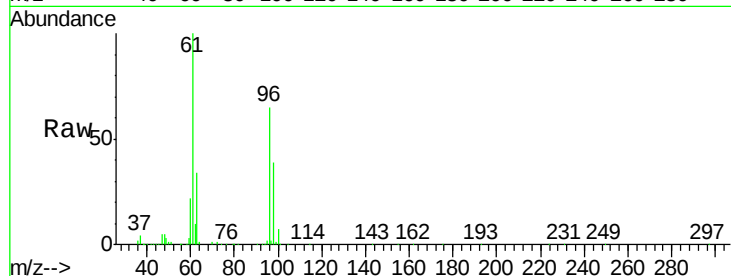
cis-1,2-Dichloroethene  
 Concen: 10.945 ppbv  
 RT: 5.55 min Scan# 859  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 65.0  | 50.2  | 75.2  |
| 98      | 39.3  | 34.3  | 51.5  |

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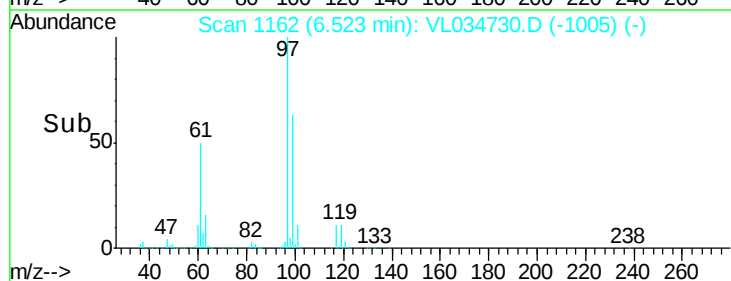
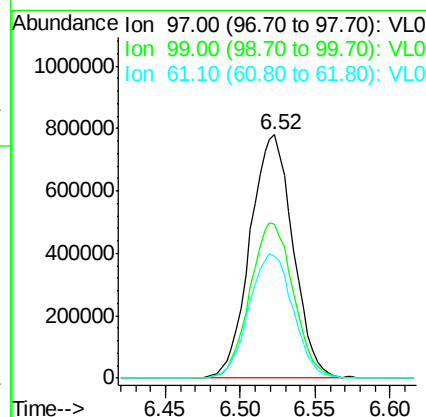
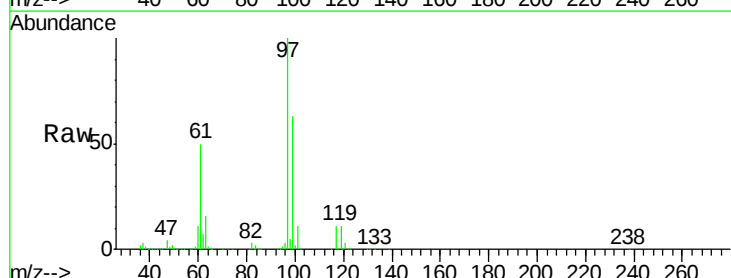
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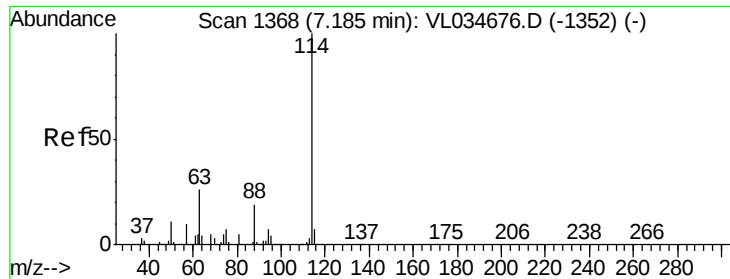


#32

1,1,1-Trichloroethane  
 Concen: 10.091 ppbv  
 RT: 6.52 min Scan# 1162  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.6  | 52.3  | 78.5  |
| 61      | 52.7  | 42.8  | 64.2  |





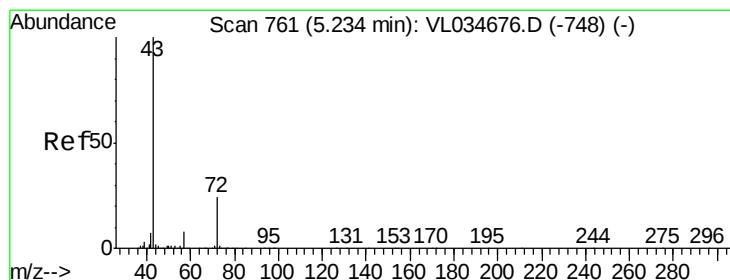
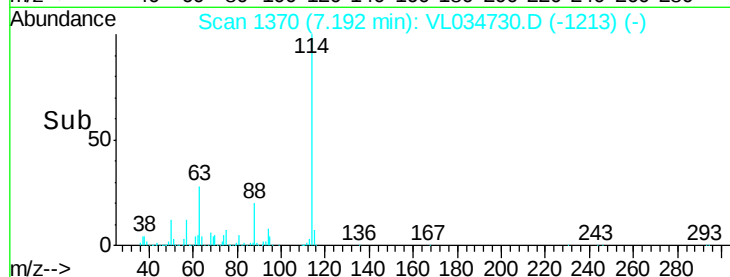
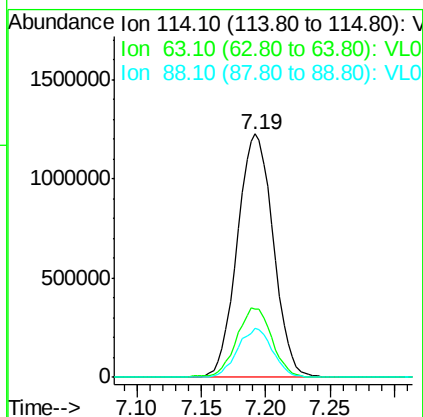
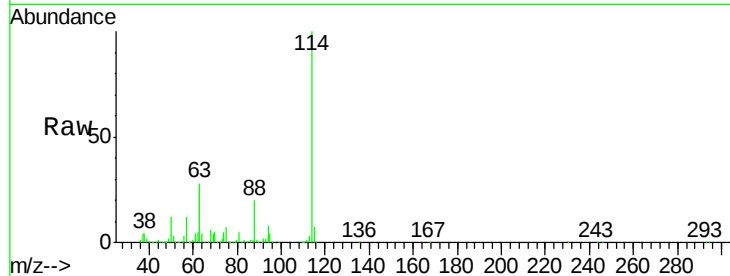
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1370  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 28.5  | 22.9  | 34.3  |
| 88      | 19.7  | 15.8  | 23.6  |

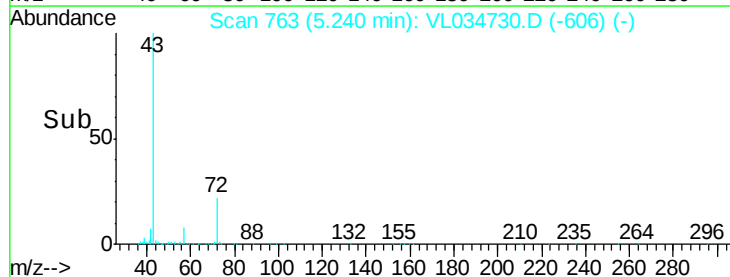
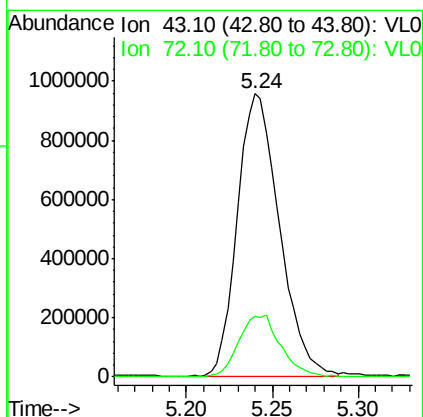
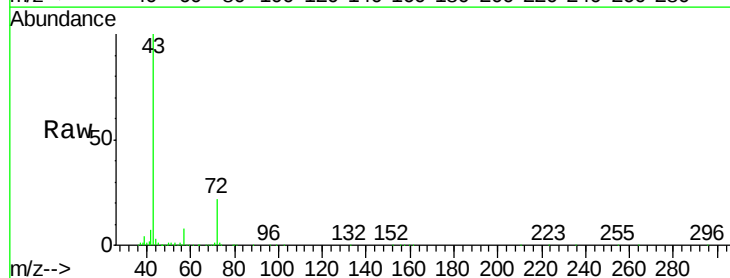
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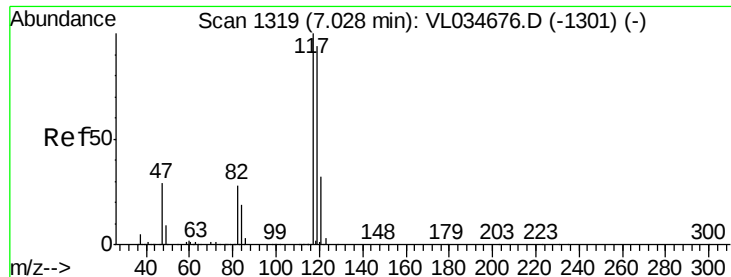
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#34  
 2-Butanone  
 Concen: 10.859 ppbv  
 RT: 5.24 min Scan# 763  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 21.8  | 18.2  | 27.2  |





#35

Carbon Tetrachloride

Concen: 9.866 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

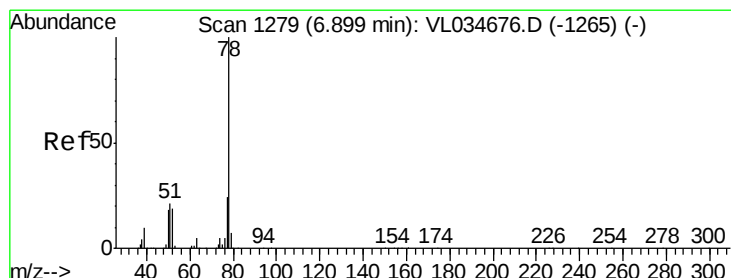
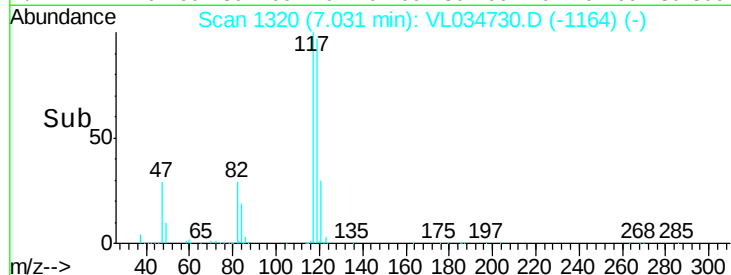
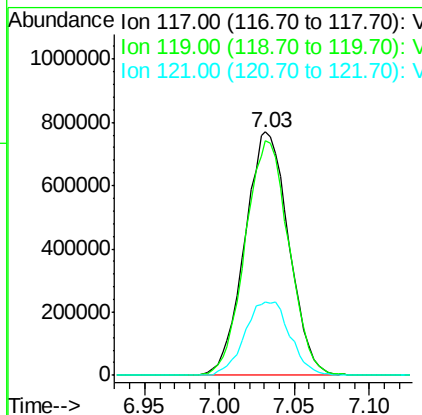
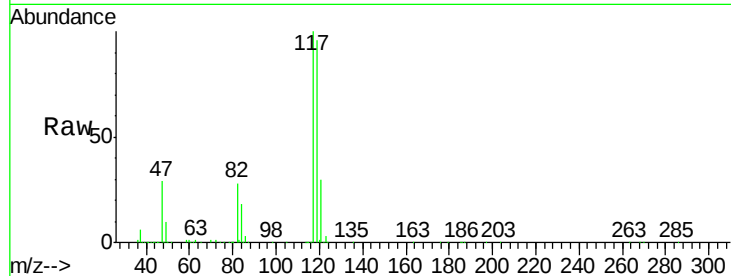
ClientSampleId :

VSTDCCC010EC

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 117     | 100  |       |       |       |
| 119     | 96.3 | 75.5  | 113.3 |       |
| 121     | 30.2 | 25.4  | 38.0  |       |

Manual Integrations  
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#36

Benzene

Concen: 10.420 ppbv

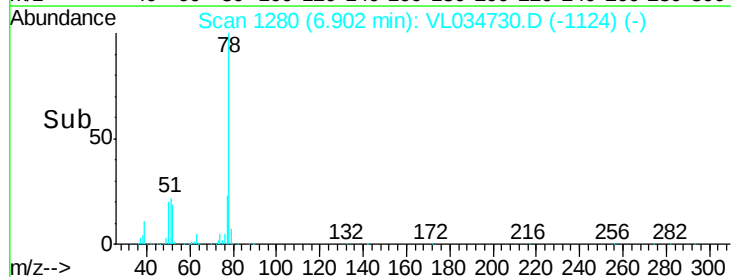
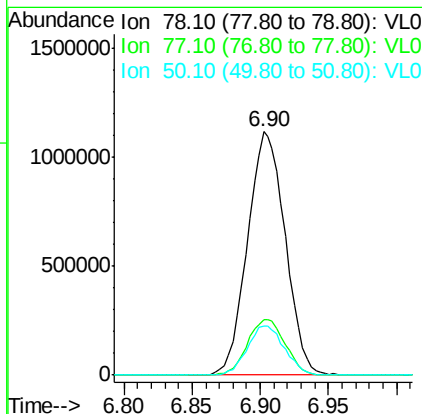
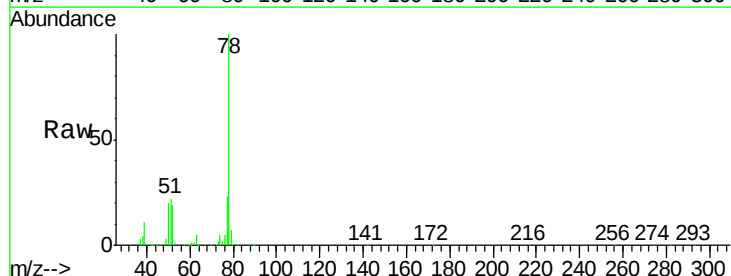
RT: 6.90 min Scan# 1280

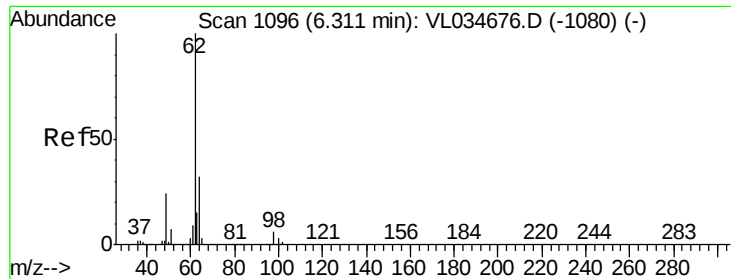
Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 78      | 100  |       |       |       |
| 77      | 22.5 | 19.5  | 29.3  |       |
| 50      | 20.4 | 14.6  | 21.8  |       |





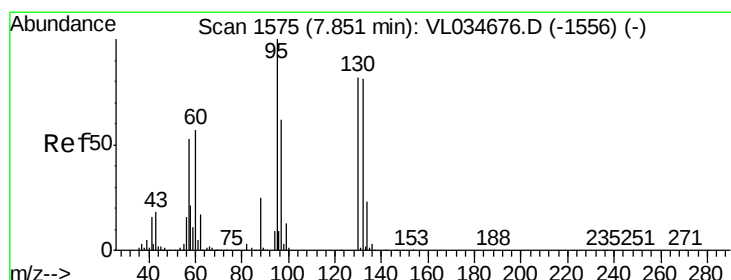
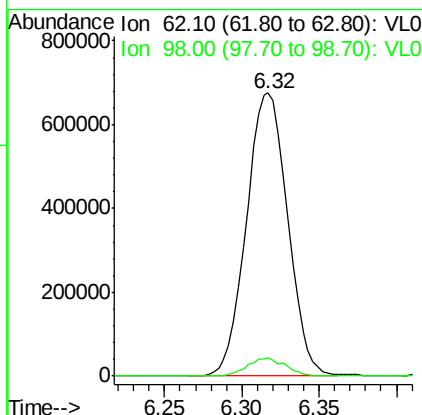
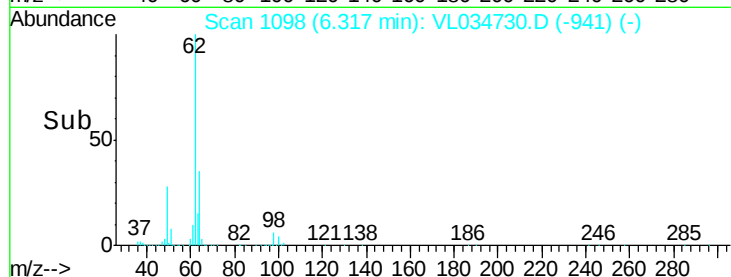
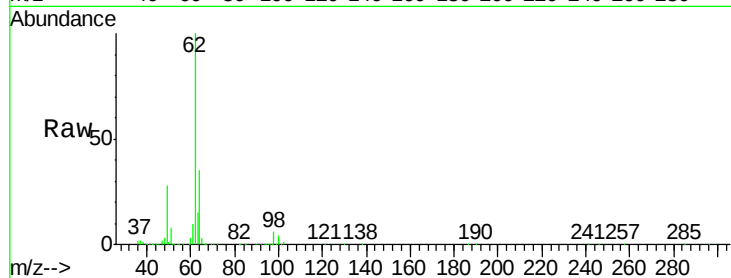
#37  
1,2-Dichloroethane  
Concen: 9.666 ppbv  
RT: 6.32 min Scan# 1098  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 62 Resp: 1251720  
Ion Ratio Lower Upper  
62 100  
98 6.1 4.7 7.1

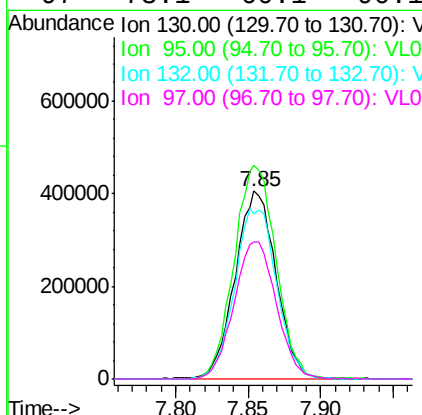
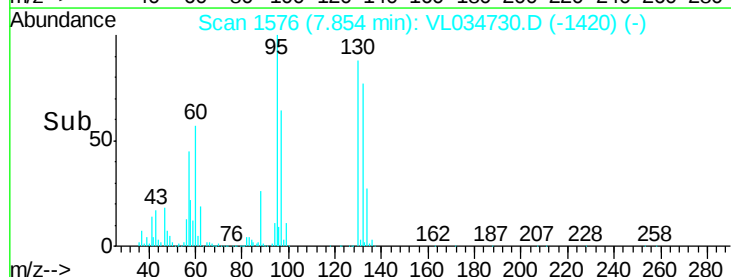
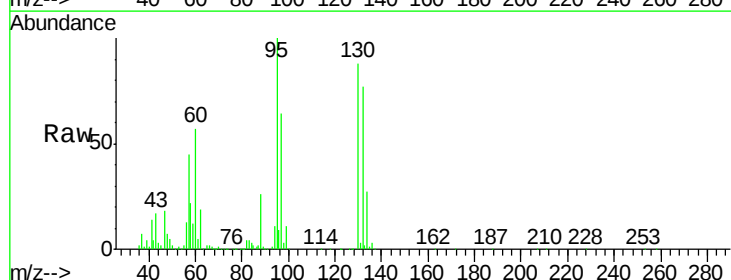
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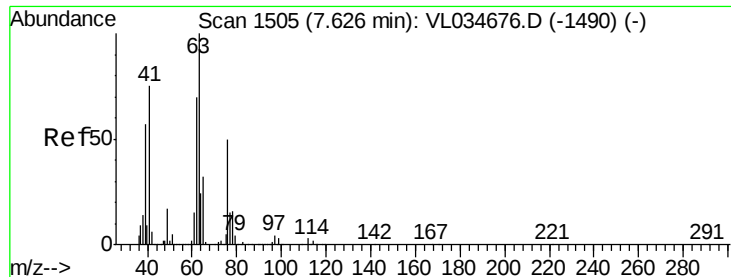
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#38  
Trichloroethene  
Concen: 9.977 ppbv  
RT: 7.85 min Scan# 1576  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 130 Resp: 790038  
Ion Ratio Lower Upper  
130 100  
95 113.7 97.1 145.7  
132 87.9 78.3 117.5  
97 73.1 60.1 90.1





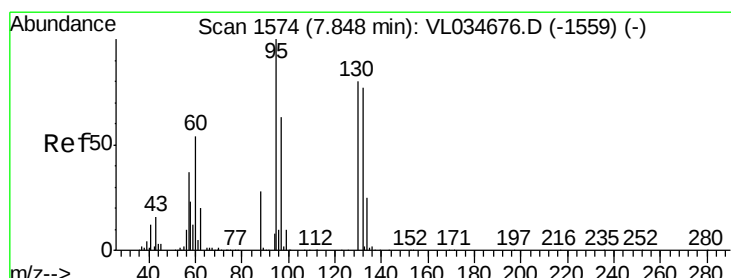
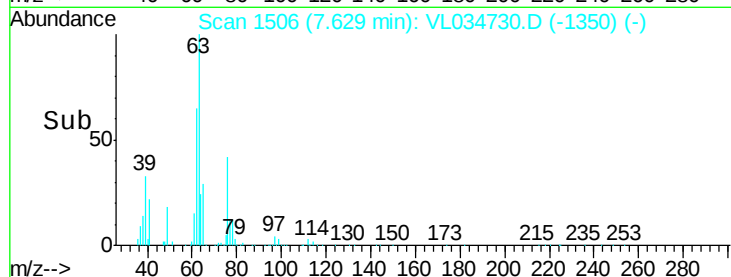
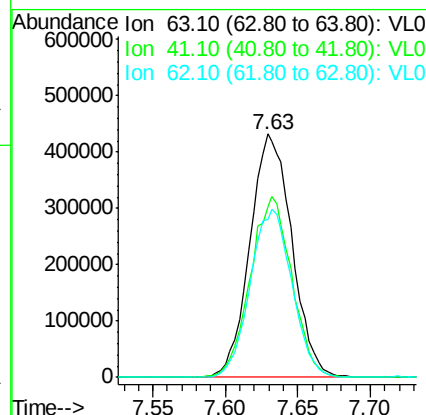
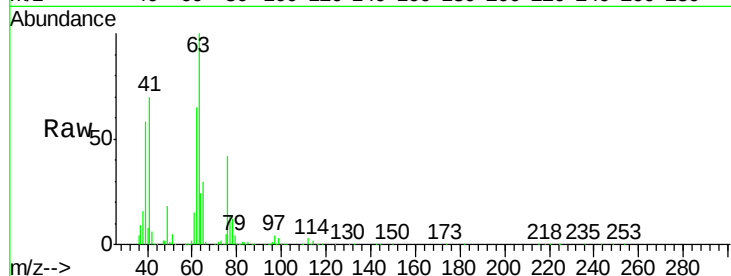
#39  
 1,2-Dichloropropane  
 Concen: 10.596 ppbv  
 RT: 7.63 min Scan# 1506  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 866013 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 41        | 70.0  | 60.2  | 90.4   |
| 62        | 64.9  | 56.3  | 84.5   |

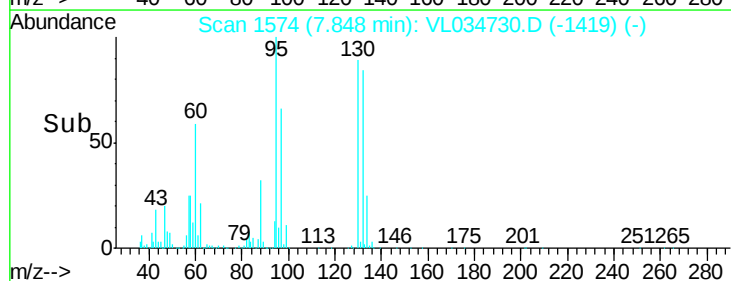
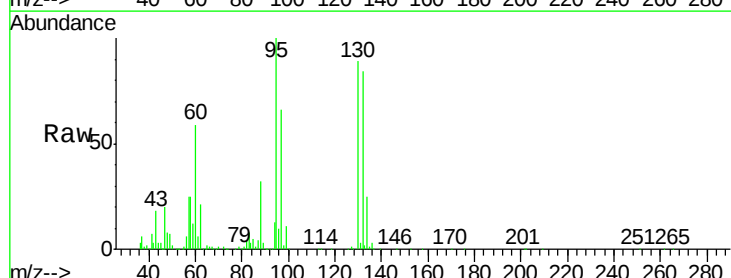
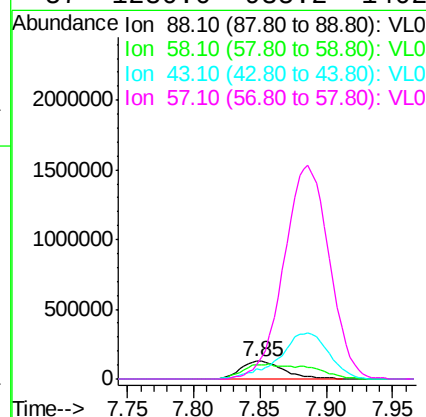
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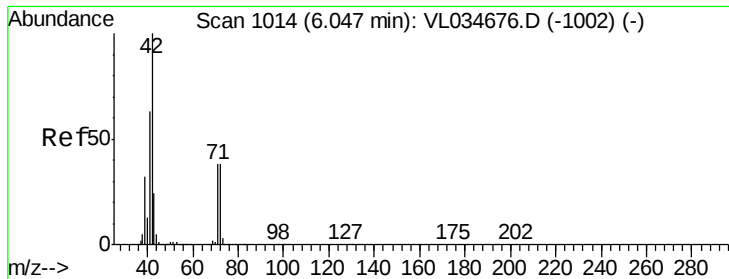
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#40  
 1,4-Dioxane  
 Concen: 10.349 ppbv  
 RT: 7.85 min Scan# 1574  
 Delta R.T. -0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 88     | Resp: | 287639 |
| Ion Ratio | Lower  | Upper |        |
| 88        | 100    |       |        |
| 58        | 137.9  | 104.6 | 156.8  |
| 43        | 297.9  | 212.9 | 319.3  |
| 57        | 1280.0 | 935.2 | 1402.8 |





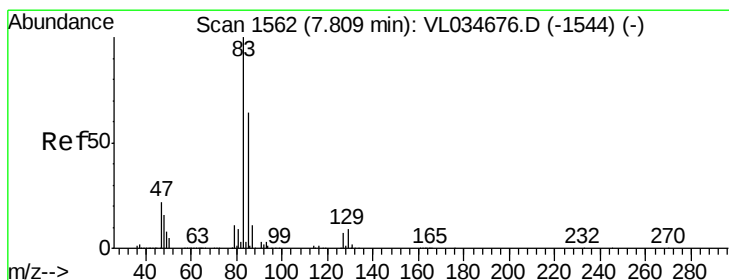
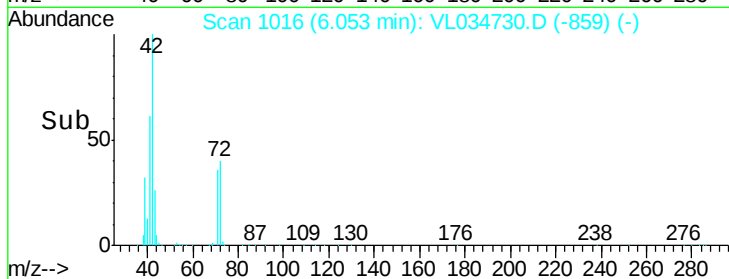
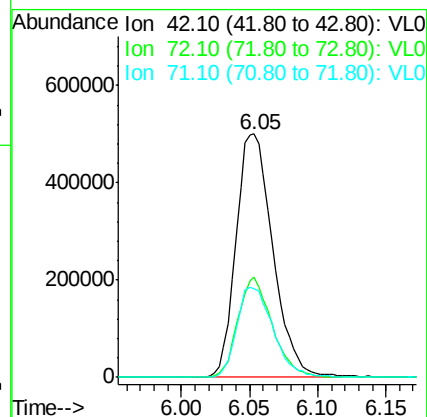
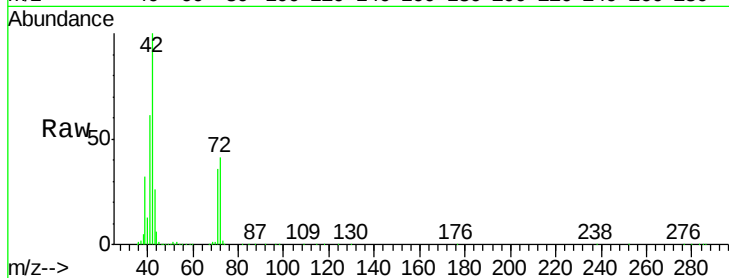
#41  
Tetrahydrofuran  
Concen: 11.870 ppbv  
RT: 6.05 min Scan# 1016  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 38.5  | 31.7  | 47.5  |
| 71      | 37.0  | 30.7  | 46.1  |

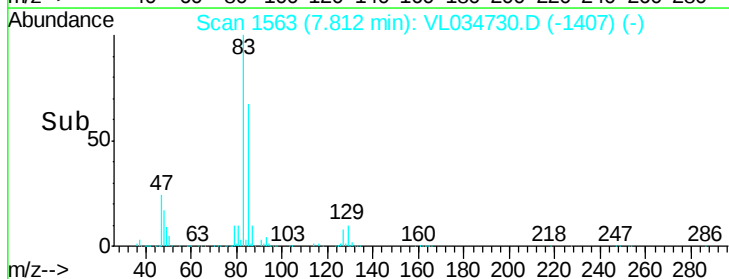
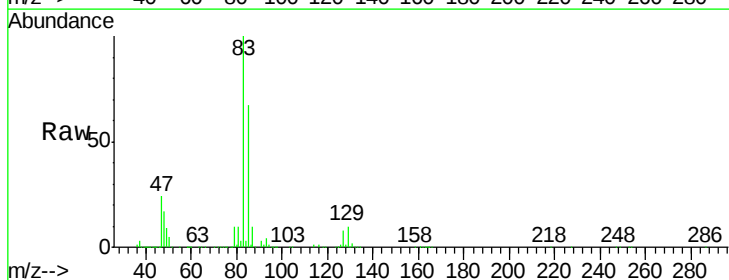
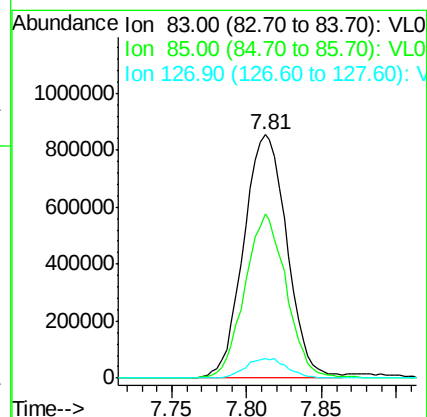
Manual Integrations  
APPROVED

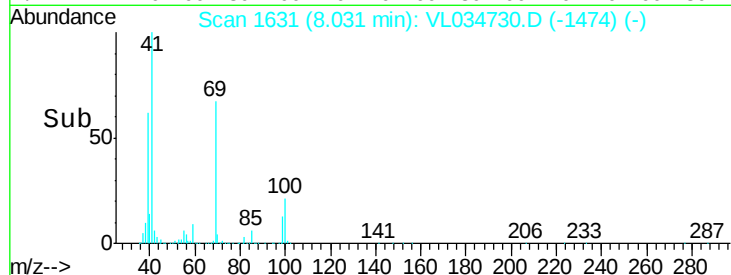
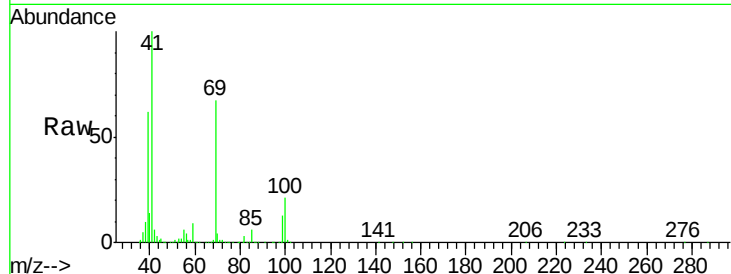
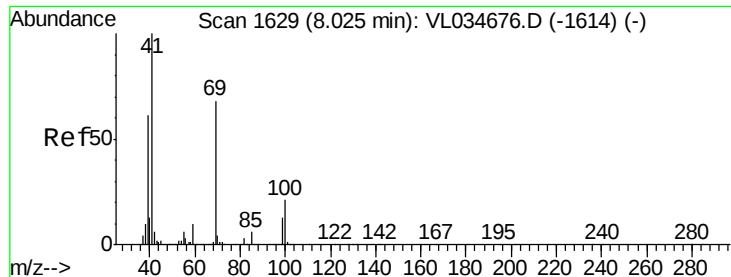
MMDadoda  
2/28/2020 12:34:11 PM



#42  
Bromodichloromethane  
Concen: 10.108 ppbv  
RT: 7.81 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 67.4  | 51.1  | 76.7  |
| 127     | 8.2   | 5.8   | 8.8   |





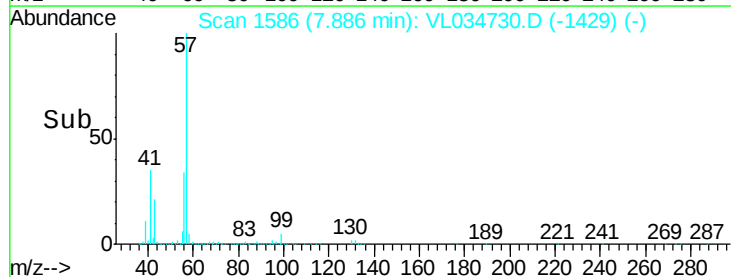
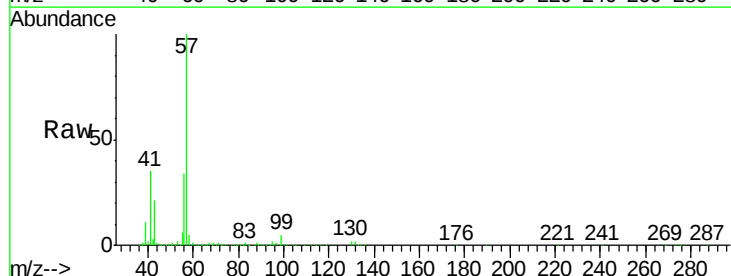
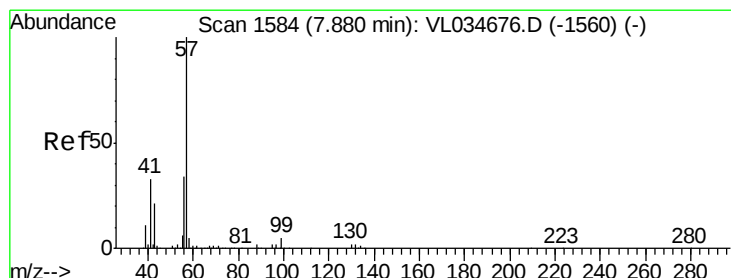
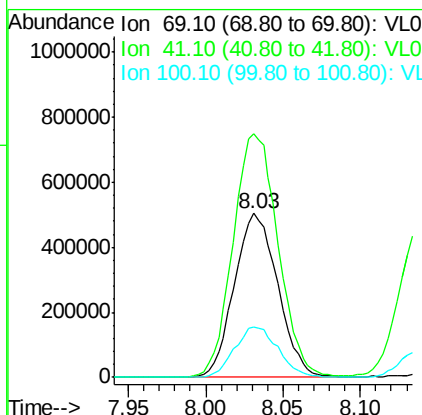
#43  
Methvl Methacrilate  
Concen: 11.448 ppbv  
RT: 8.03 min Scan# 1631  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 152.7 | 118.2 | 177.2 |
| 100     | 30.8  | 24.2  | 36.2  |

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

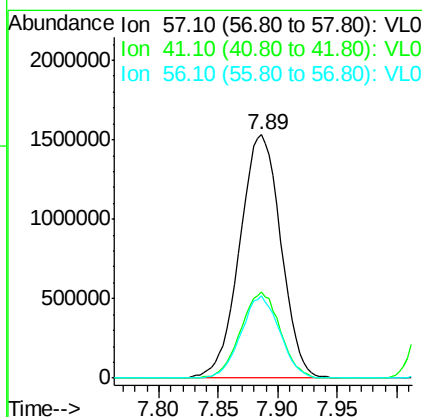
Manual Integrations  
APPROVED

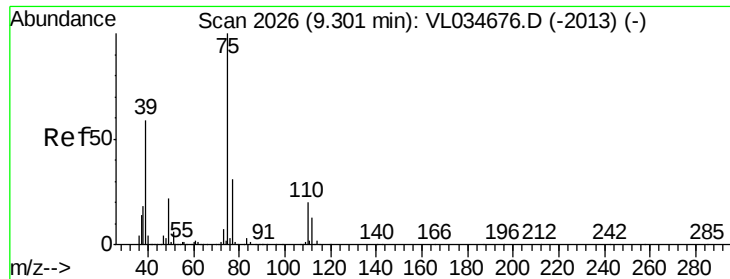
MMDadoda  
2/28/2020 12:34:11 PM



#44  
2,2,4-Trimethylpentane  
Concen: 10.182 ppbv  
RT: 7.89 min Scan# 1586  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 34.2  | 26.0  | 39.0  |
| 56      | 32.0  | 25.6  | 38.4  |





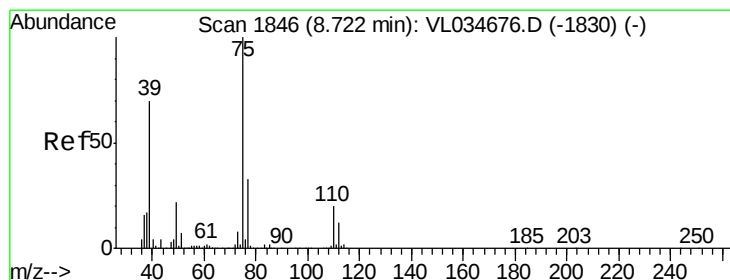
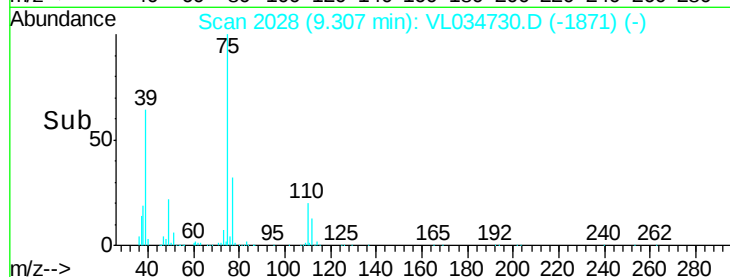
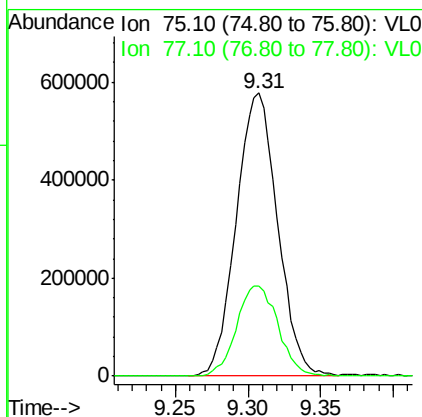
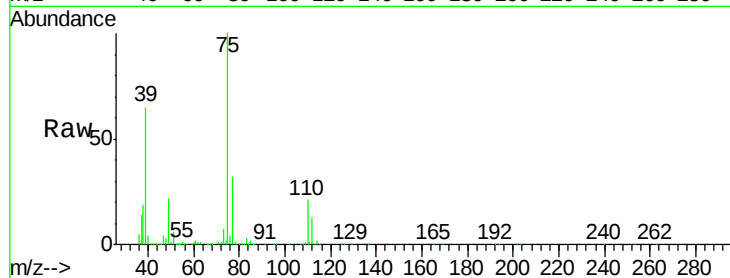
#45  
t-1,3-Dichloropropene  
Concen: 12.166 ppbv  
RT: 9.31 min Scan# 2028  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 75 Resp: 1147143  
Ion Ratio Lower Upper  
75 100  
77 32.0 25.3 37.9

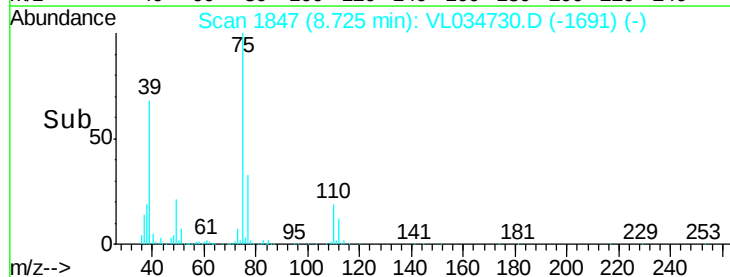
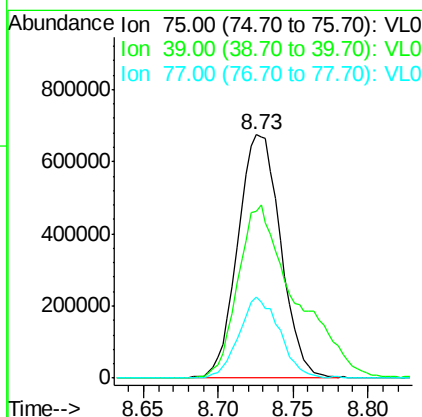
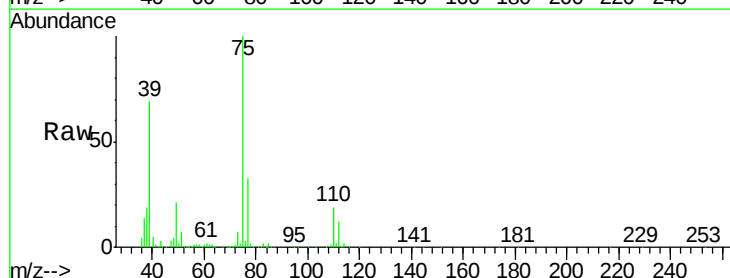
Manual Integrations  
APPROVED

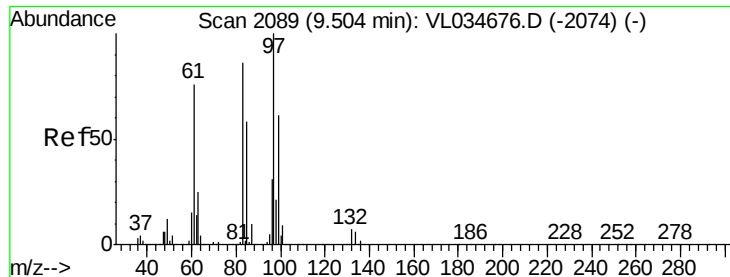
MMDadoda  
2/28/2020 12:34:11 PM



#46  
cis-1,3-Dichloropropene  
Concen: 11.863 ppbv  
RT: 8.73 min Scan# 1847  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 75 Resp: 1341526  
Ion Ratio Lower Upper  
75 100  
39 68.5 55.7 83.5  
77 33.1 26.3 39.5





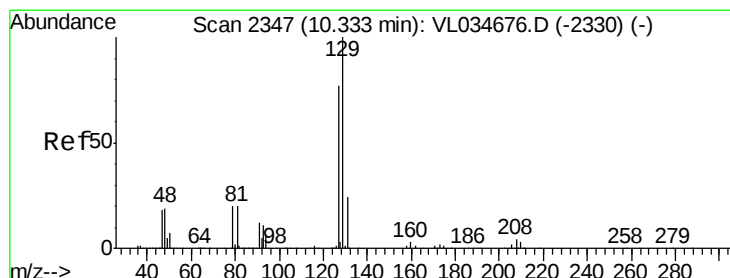
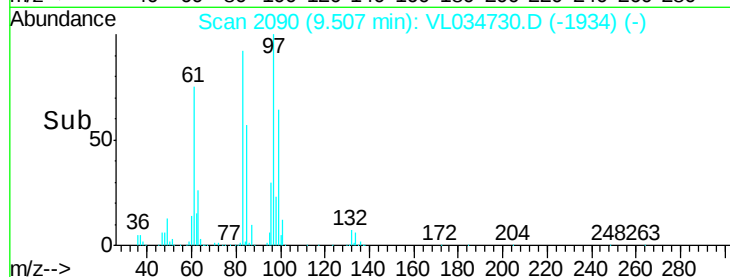
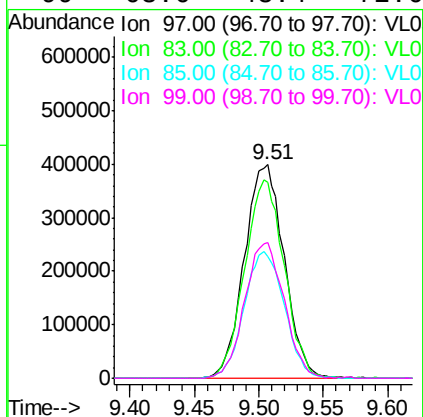
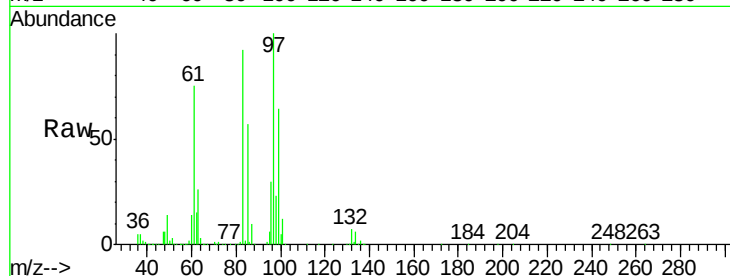
#47  
 1,1,2-Trichloroethane  
 Concen: 10.246 ppbv  
 RT: 9.51 min Scan# 2090  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 859145 |       |       |
| 83      | 91.8 | 69.4  | 104.0  |       |       |
| 85      | 57.1 | 46.4  | 69.6   |       |       |
| 99      | 63.6 | 48.4  | 72.6   |       |       |

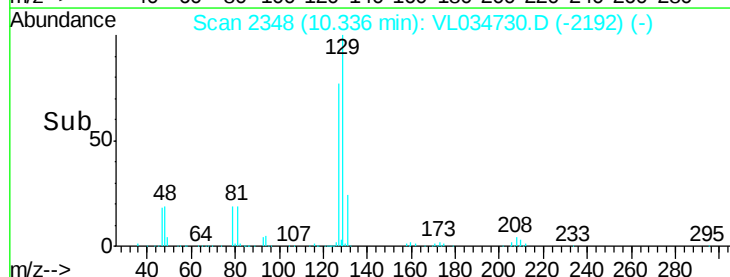
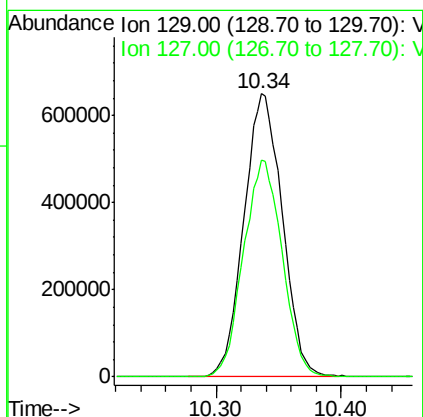
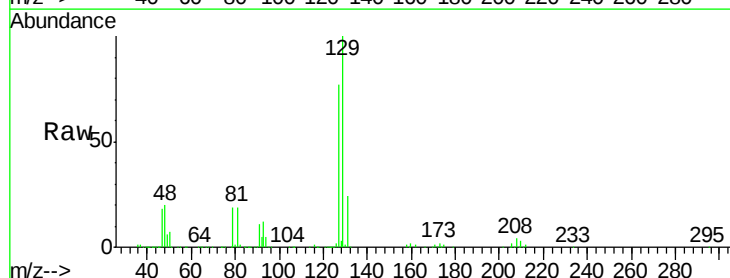
Manual Integrations  
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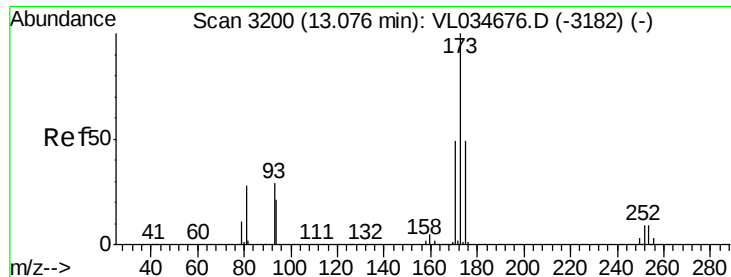
MMDadoda  
 2/28/2020 12:34:11 PM



#48  
 Dibromochloromethane  
 Concen: 10.619 ppbv  
 RT: 10.34 min Scan# 2348  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 129     | 100  |       | 1384553 |       |       |
| 127     | 77.1 | 39.3  | 117.8   |       |       |





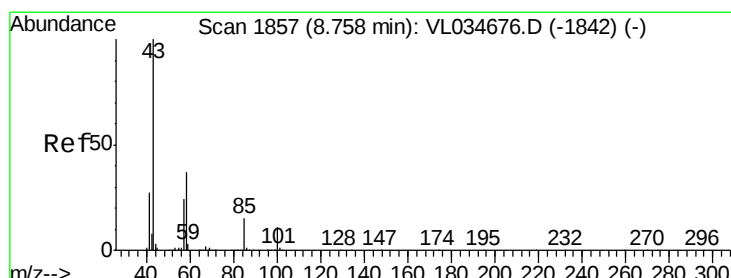
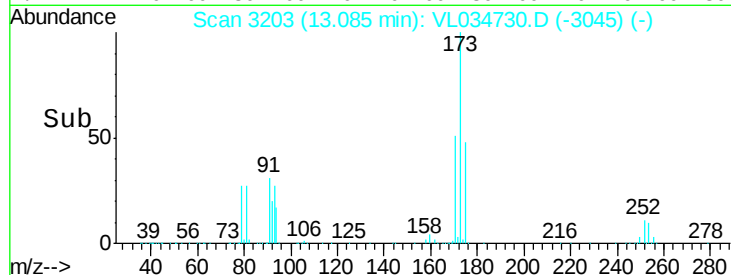
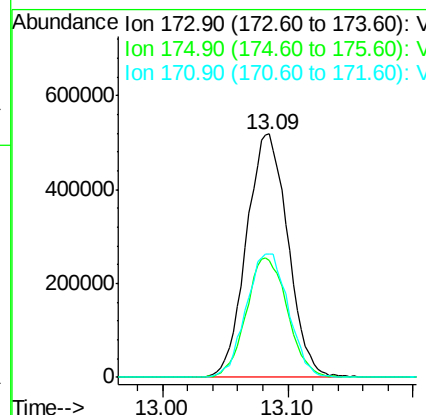
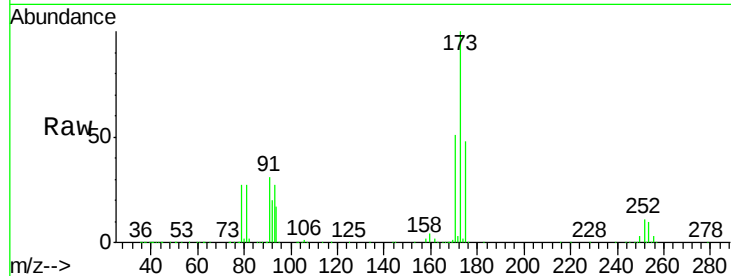
#49  
Bromoform  
Concen: 10.528 ppbv  
RT: 13.09 min Scan# 3203  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion:173 Resp: 1190104  
Ion Ratio Lower Upper  
173 100  
175 48.8 38.6 58.0  
171 51.7 41.5 62.3

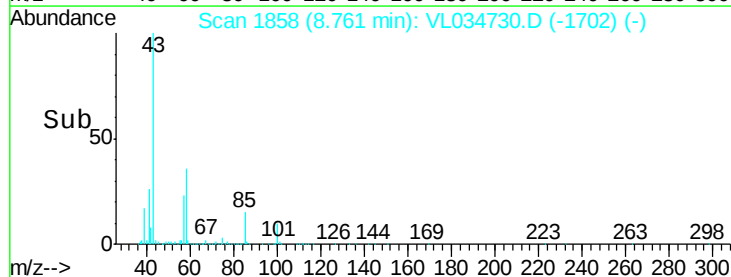
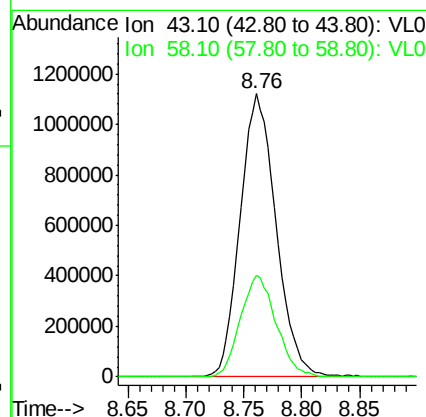
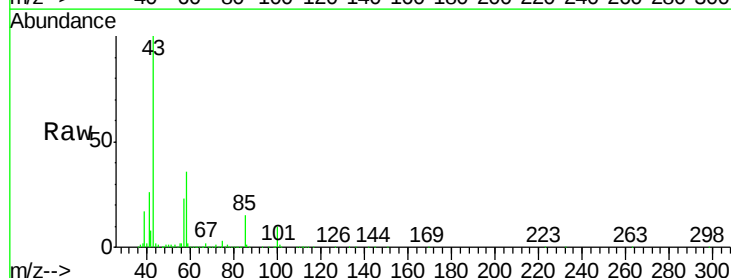
Manual Integrations  
APPROVED

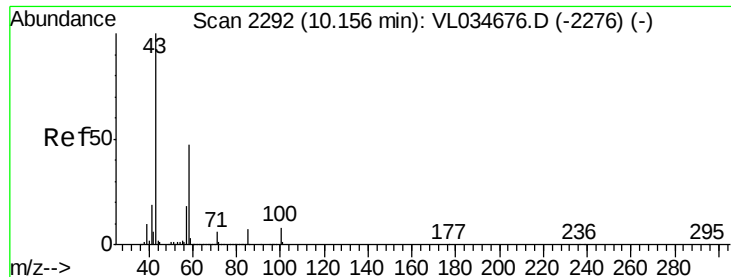
MMDadoda  
2/28/2020 12:34:11 PM



#50  
4-Methyl-2-Pentanone  
Concen: 11.328 ppbv  
RT: 8.76 min Scan# 1858  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 43 Resp: 2402109  
Ion Ratio Lower Upper  
43 100  
58 35.9 29.0 43.6





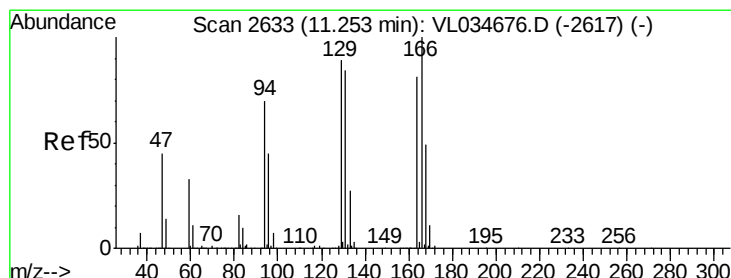
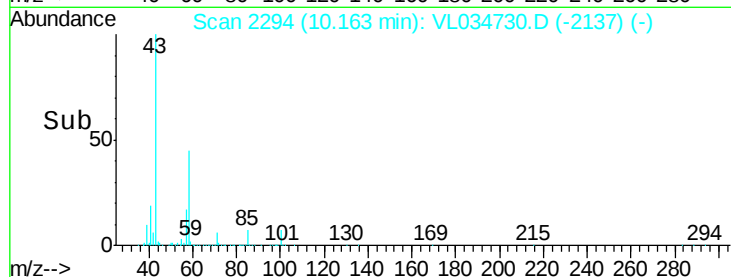
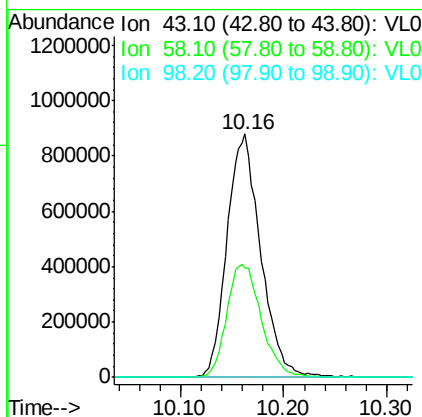
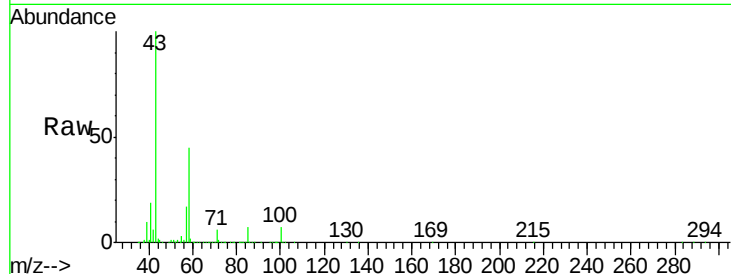
#51  
2-Hexanone  
Concen: 11.931 ppbv  
RT: 10.16 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 43 Resp: 1990905  
Ion Ratio Lower Upper  
43 100  
58 47.9 39.4 59.0  
98 0.2 0.2 0.2

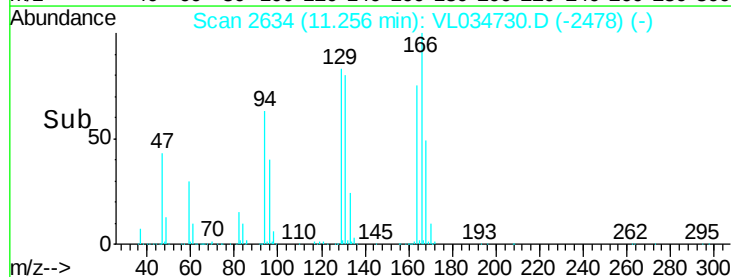
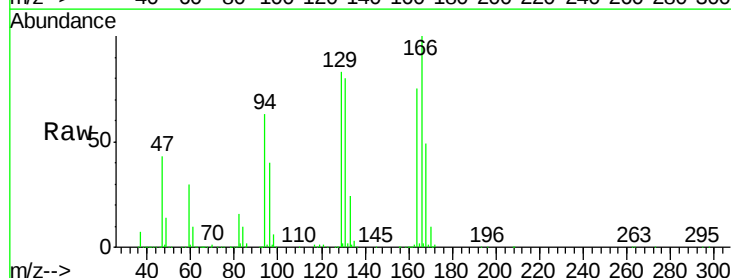
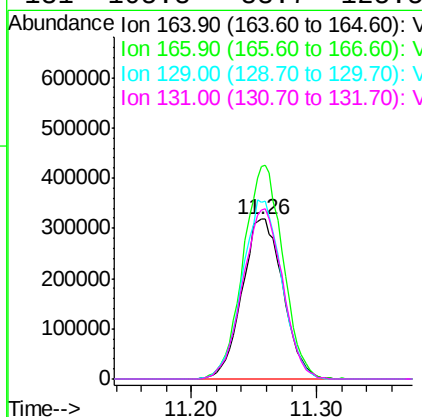
Manual Integrations  
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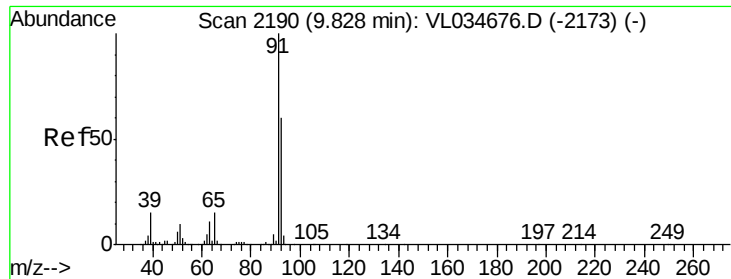
MMDadoda  
2/28/2020 12:34:11 PM



#52  
Tetrachloroethene  
Concen: 9.565 ppbv  
RT: 11.26 min Scan# 2634  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 164 Resp: 720246  
Ion Ratio Lower Upper  
164 100  
166 132.8 99.2 148.8  
129 110.4 88.0 132.0  
131 105.8 83.7 125.5





#53

Toluene

Concen: 11.165 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Tot Ion: 91 Resp: 2439457

Ion Ratio Lower Upper

91 100

92 60.5 48.5 72.7

Instrument :

MSVOA\_L

ClientSampleId :

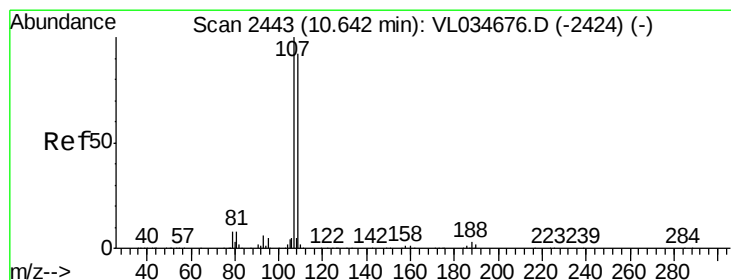
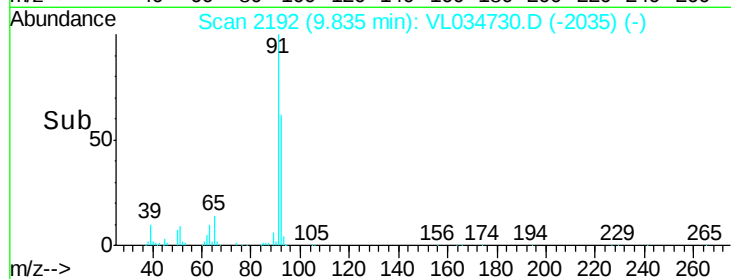
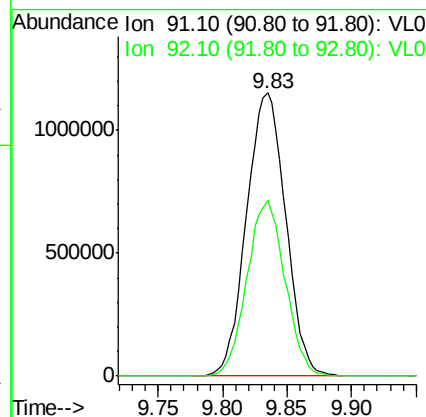
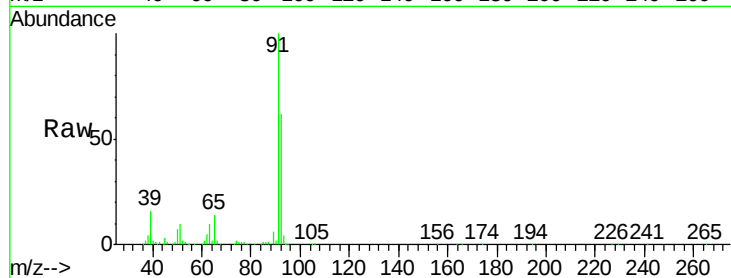
VSTDCCC010EC

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.331 ppbv

RT: 10.64 min Scan# 2444

Delta R.T. 0.00 min

Lab File: VL034730.D

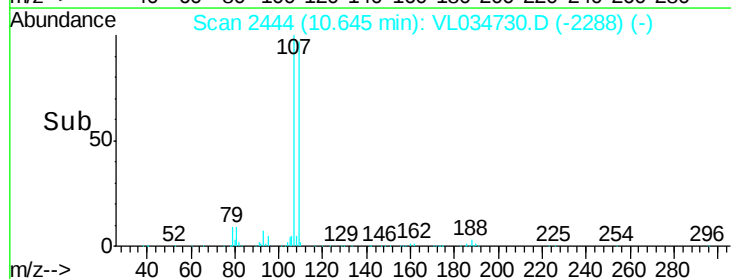
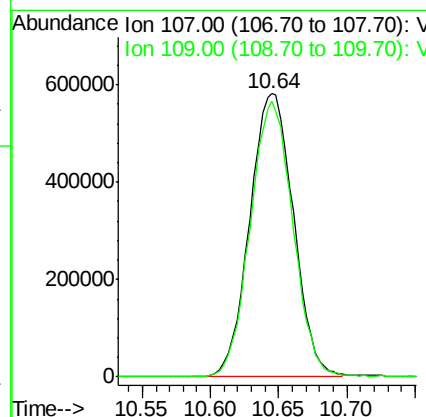
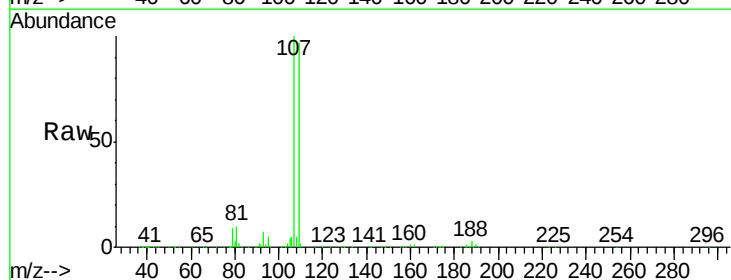
Acq: 28 Feb 2020 5:12

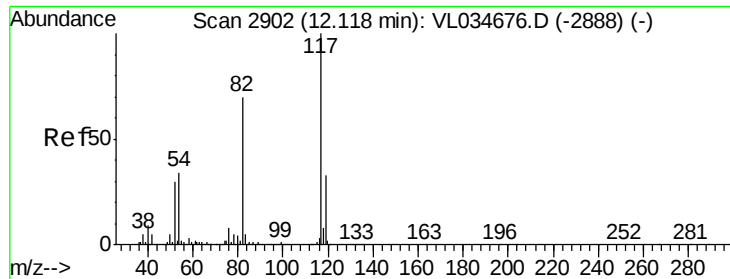
Tgt Ion: 107 Resp: 1292358

Ion Ratio Lower Upper

107 100

109 97.2 73.9 110.9





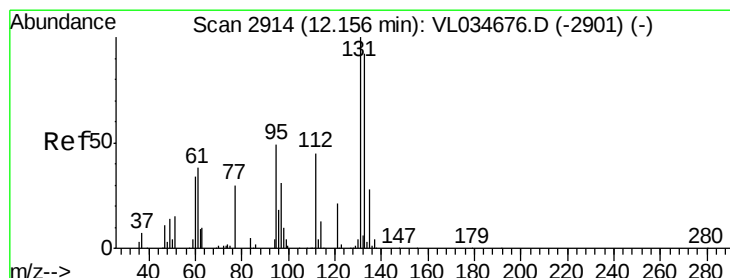
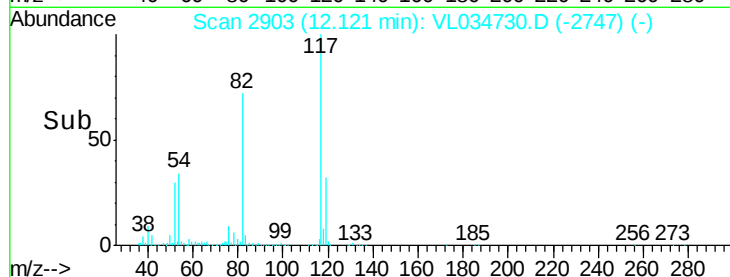
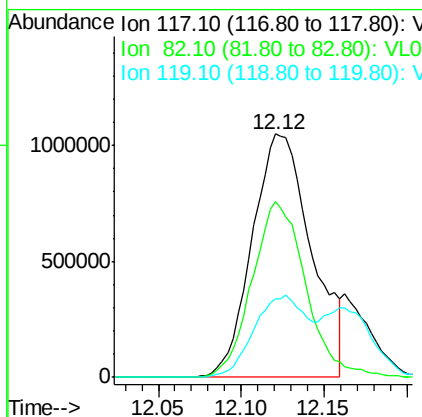
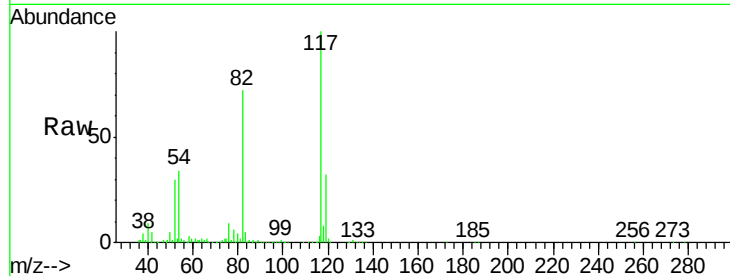
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.12 min Scan# 2903  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 65.6  | 54.1  | 81.1  |
| 119     | 54.2  | 27.6  | 41.4# |

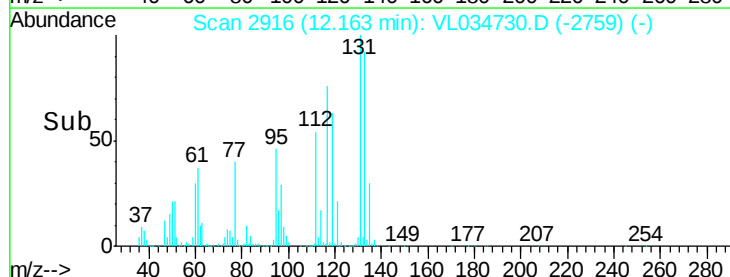
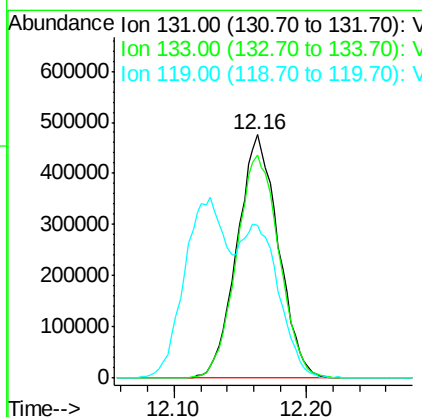
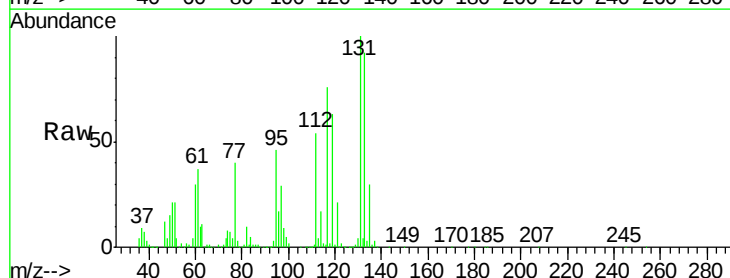
Manual Integrations  
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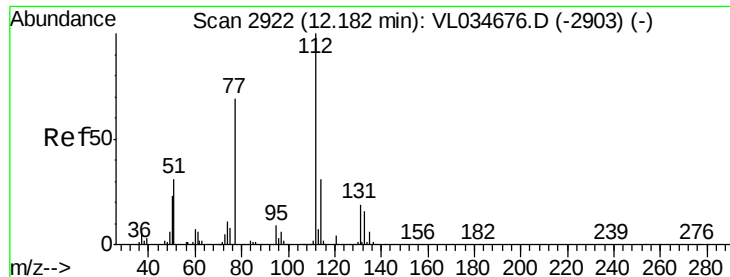
MMDadoda  
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#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.242 ppbv  
RT: 12.16 min Scan# 2916  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 95.0  | 76.6  | 114.8 |
| 119     | 137.7 | 51.3  | 76.9# |





#57

Chlorobenzene

Concen: 9.114 ppbv

RT: 12.19 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1760118

Ion Ratio Lower Upper

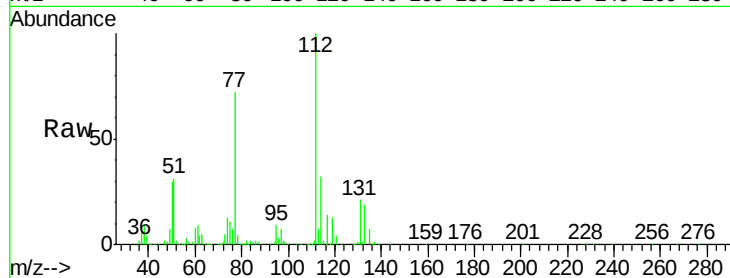
112 100

77 72.0 56.5 84.7

114 32.0 28.1 34.3

Manual Integrations  
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

1000000

800000

600000

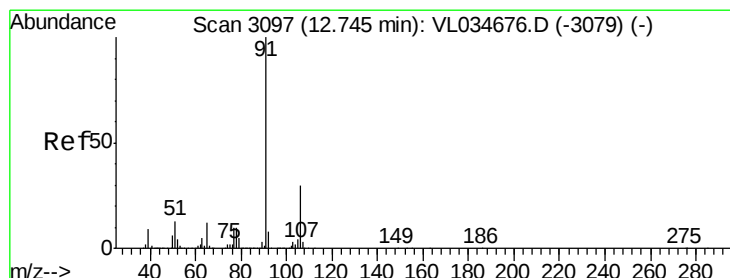
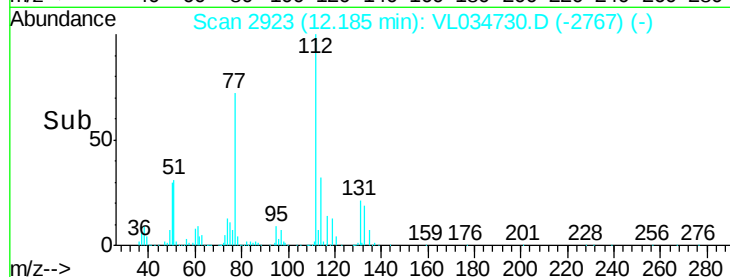
400000

200000

0

12.19

Time-->



#58

Ethyl Benzene

Concen: 10.200 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.00 min

Lab File: VL034730.D

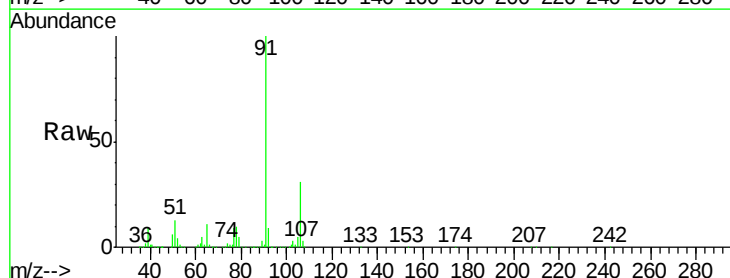
Acq: 28 Feb 2020 5:12

Tgt Ion: 91 Resp: 3224375

Ion Ratio Lower Upper

91 100

106 31.4 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

1500000

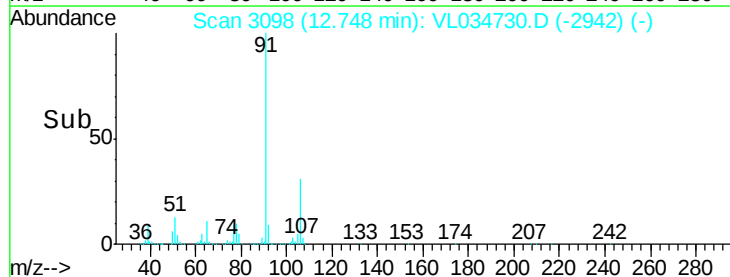
1000000

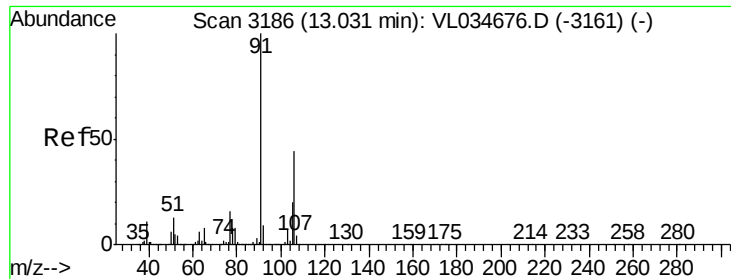
500000

0

12.75

Time-->





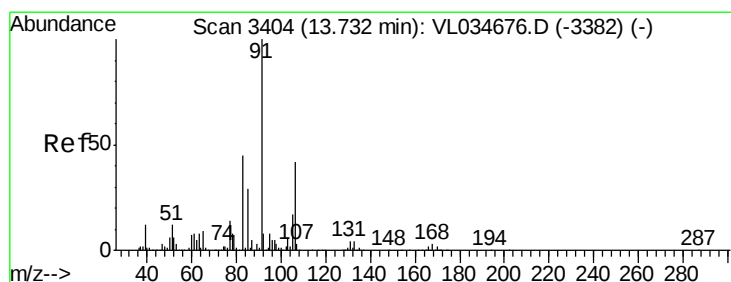
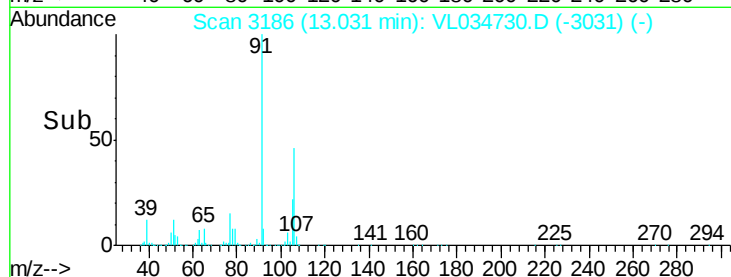
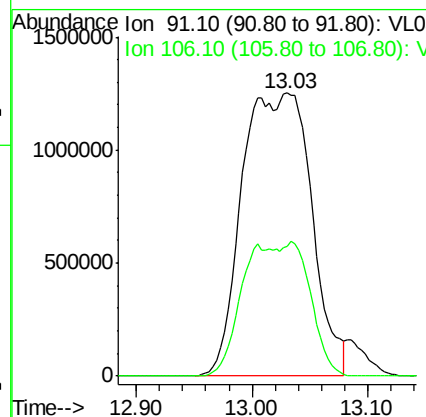
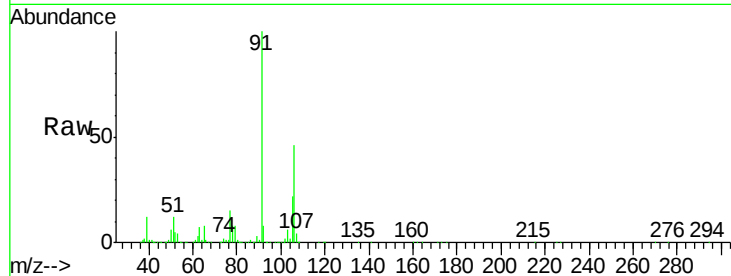
#59  
m/p-Xylene  
Concen: 18.911 ppbv m  
RT: 13.03 min Scan# 3186  
Delta R.T. -0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 91 Resp: 5213770  
Ion Ratio Lower Upper  
91 100  
106 45.3 35.6 53.4

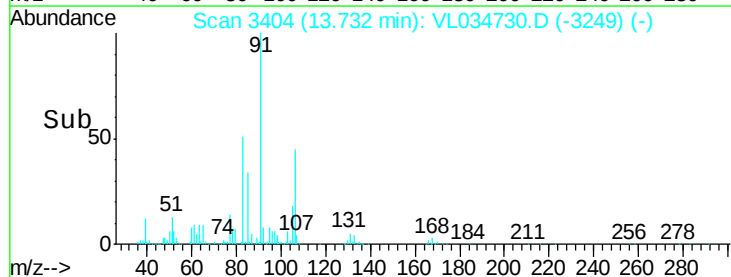
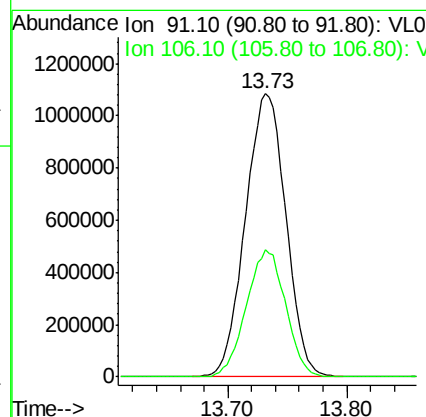
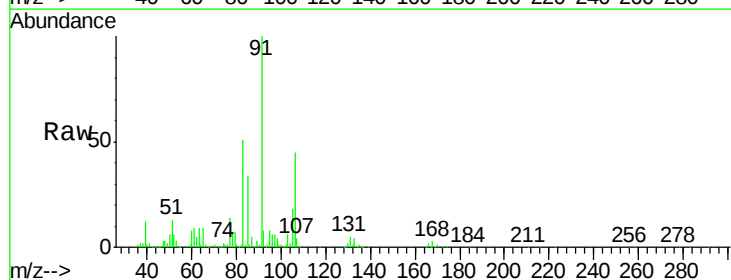
Manual Integrations  
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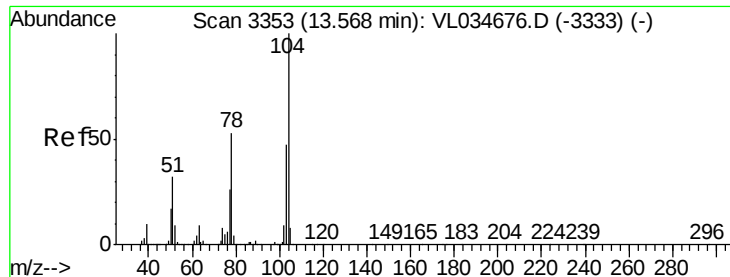
MMDadoda  
2/28/2020 12:34:11 PM



#60  
o-Xylene  
Concen: 9.320 ppbv  
RT: 13.73 min Scan# 3404  
Delta R.T. -0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 91 Resp: 2549858  
Ion Ratio Lower Upper  
91 100  
106 43.6 21.9 65.5





#61

Stvrene

Concen: 10.661 ppbv

RT: 13.57 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

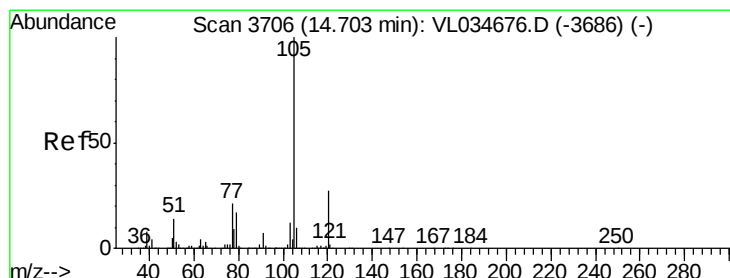
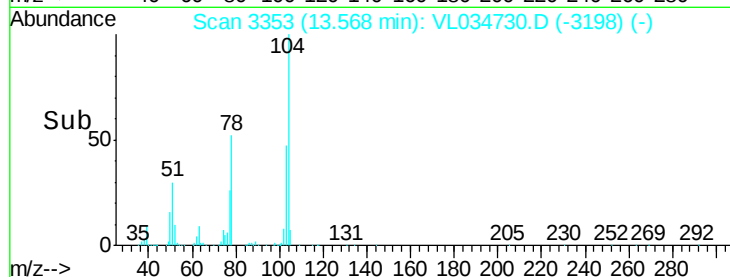
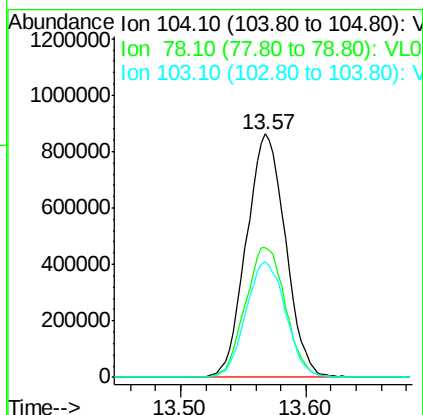
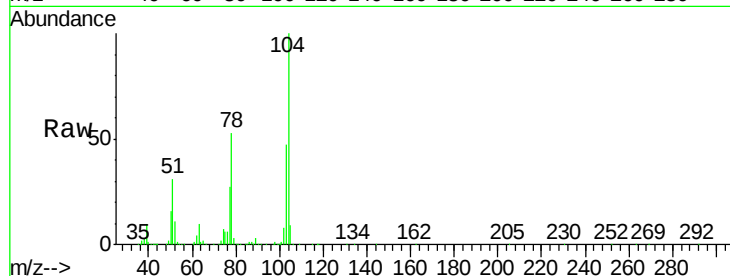
ClientSampleId :

VSTDCCC010EC

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 104   | Resp: | 1873616 |
| Ion      | Ratio | Lower | Upper   |
| 104      | 100   |       |         |
| 78       | 54.6  | 44.2  | 66.4    |
| 103      | 48.1  | 37.4  | 56.0    |

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#62

Isopropylbenzene

Concen: 9.337 ppbv

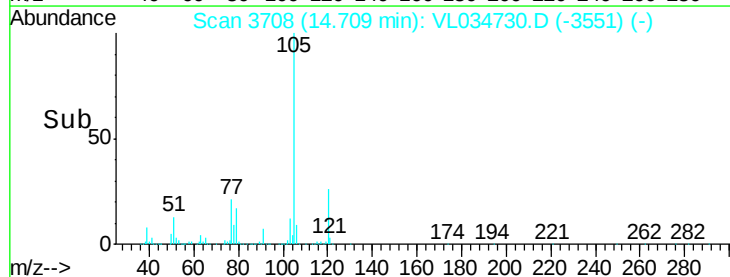
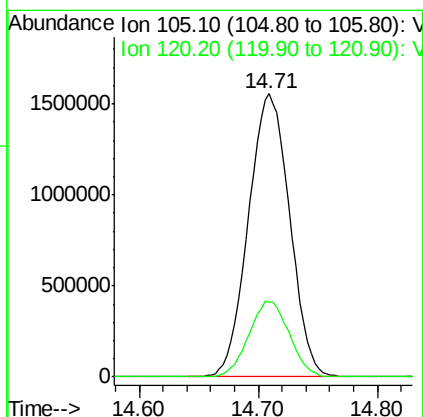
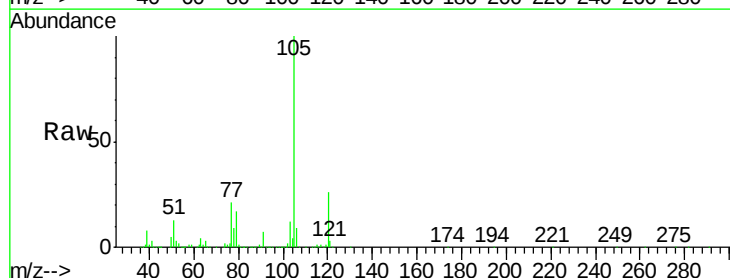
RT: 14.71 min Scan# 3708

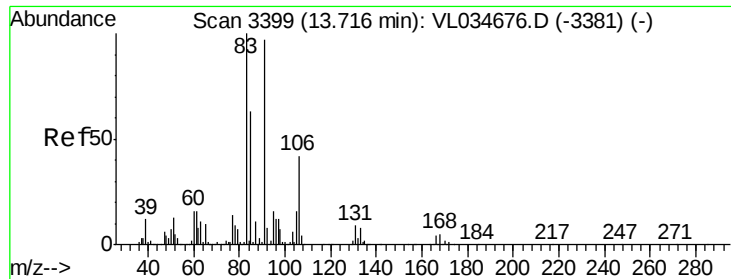
Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 105   | Resp: | 3726430 |
| Ion      | Ratio | Lower | Upper   |
| 105      | 100   |       |         |
| 120      | 26.2  | 20.2  | 30.4    |





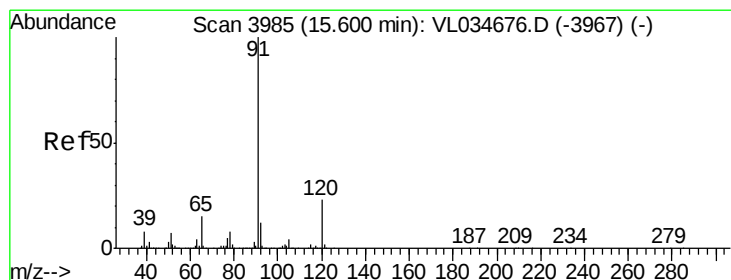
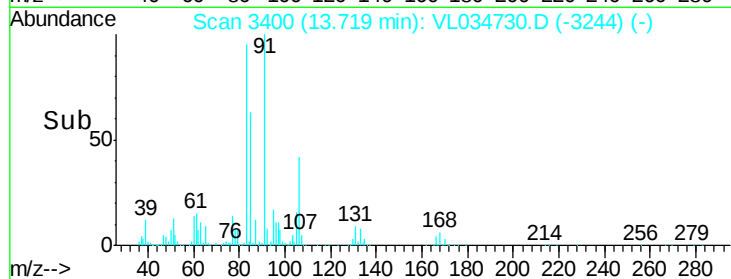
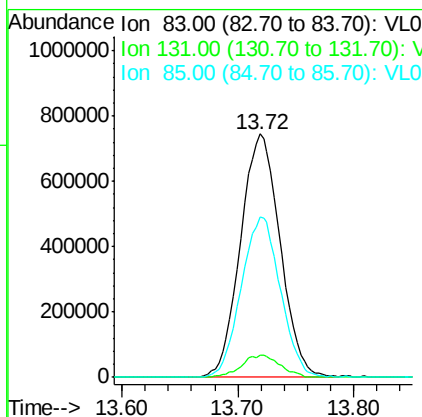
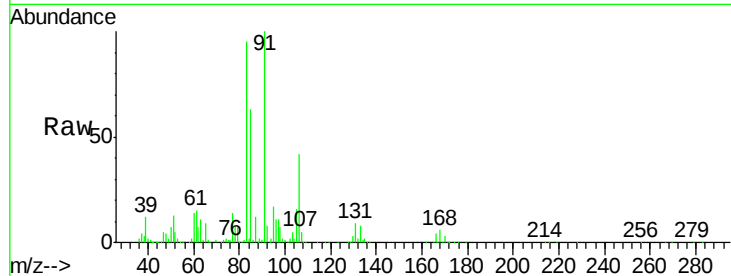
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.314 ppbv  
 RT: 13.72 min Scan# 3400  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.0   | 4.4   | 13.2  |
| 85      | 65.5  | 32.5  | 97.5  |

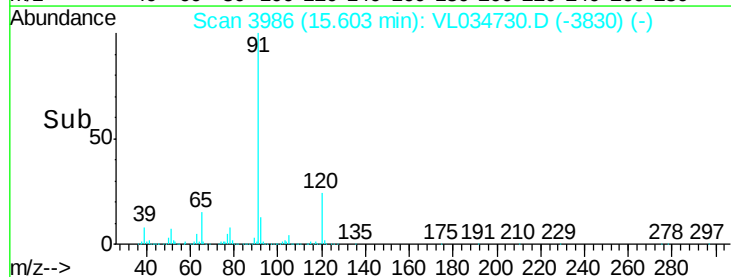
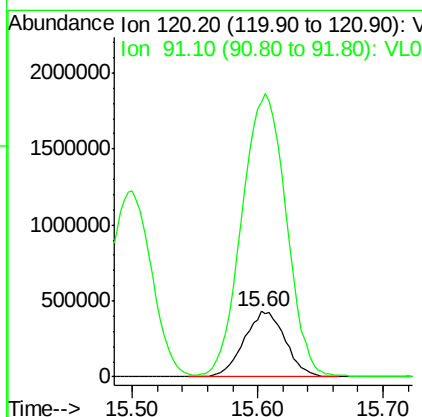
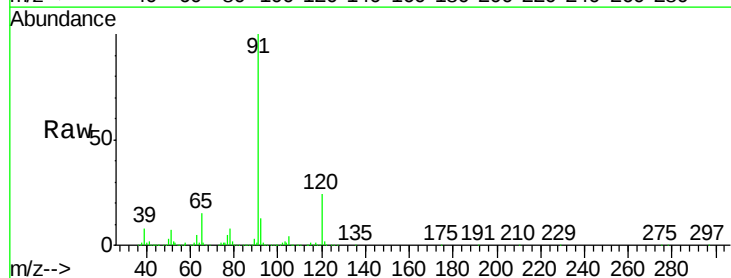
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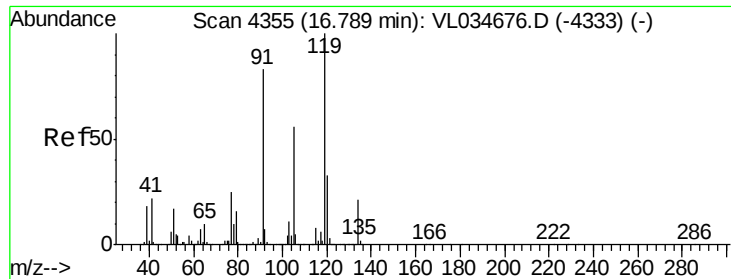
MMDadoda  
 2/28/2020 12:34:11 PM



#64  
 n-propylbenzene  
 Concen: 9.501 ppbv  
 RT: 15.60 min Scan# 3986  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 120     | 100   |       |       |
| 91      | 469.6 | 369.8 | 554.8 |





#65

tert-Butylbenzene

Concen: 9.291 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3201970

Ion Ratio Lower Upper

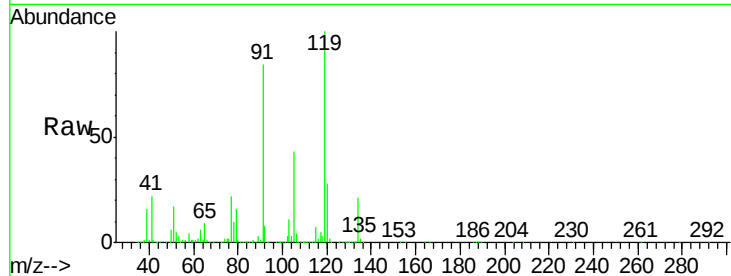
119 100

91 85.5 69.1 103.7

134 20.0 15.8 23.8

Manual Integrations  
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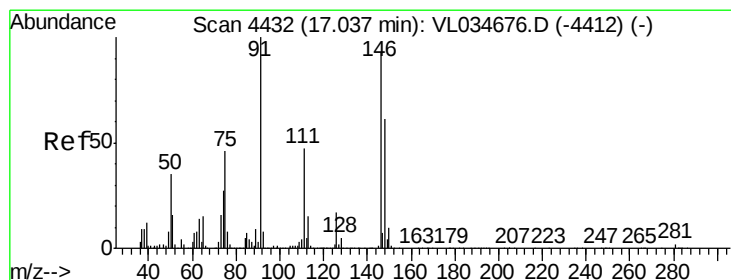
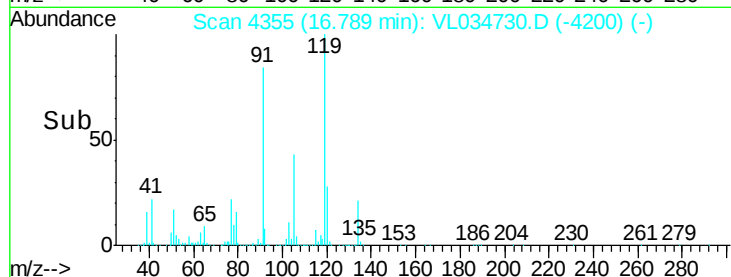
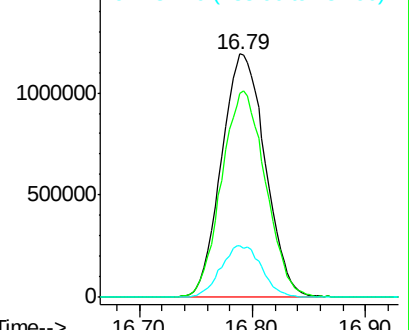
MMDadoda  
2/28/2020 12:34:11 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.329 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

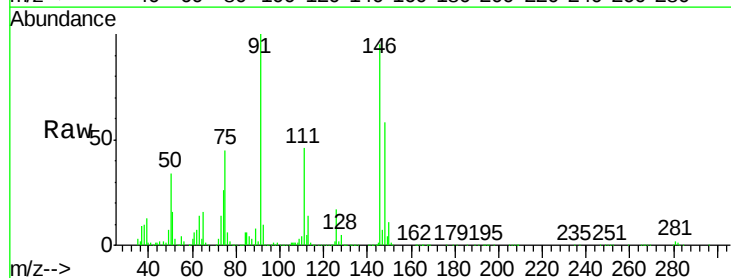
Tgt Ion: 91 Resp: 1456325

Ion Ratio Lower Upper

91 100

126 16.7 13.5 20.3

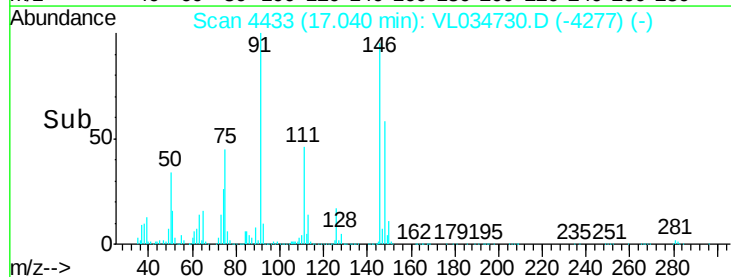
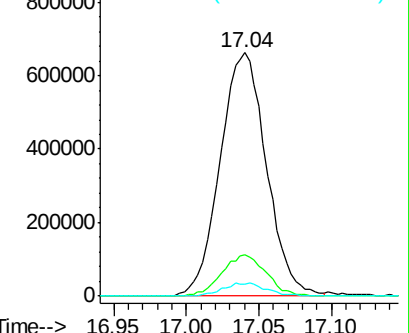
128 5.2 4.2 6.4

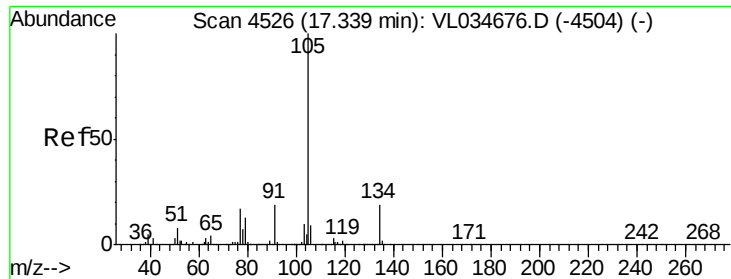


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.194 ppbv

RT: 17.35 min Scan# 4528

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4559046

Ion Ratio Lower Upper

105 100

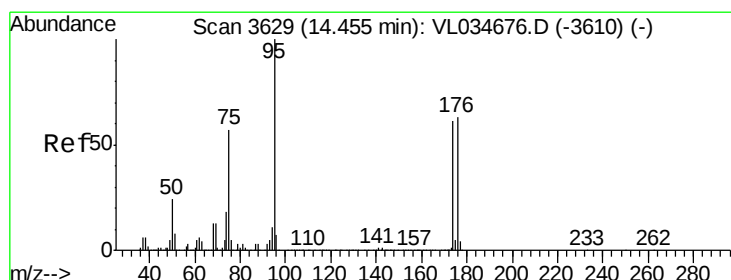
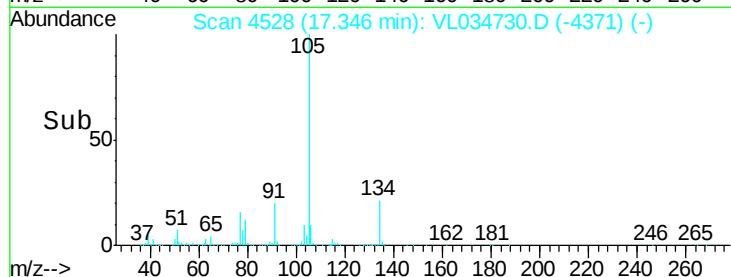
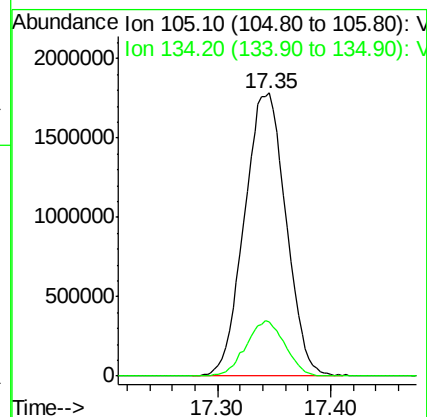
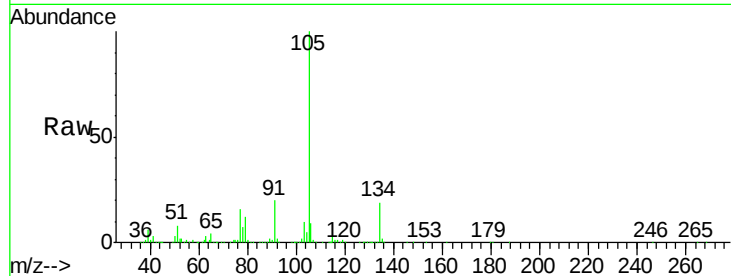
134 18.4 14.8 22.2

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.294 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

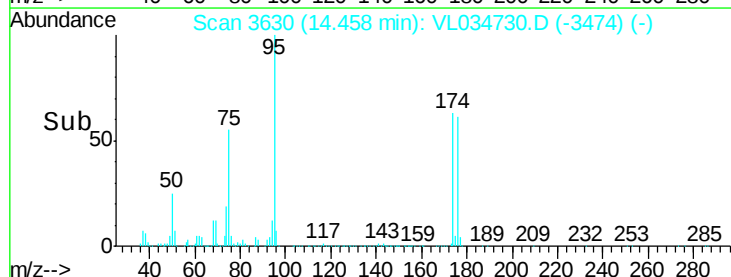
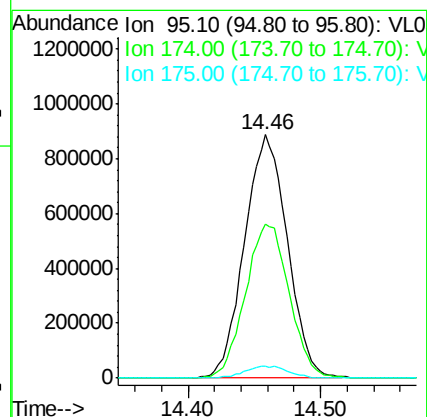
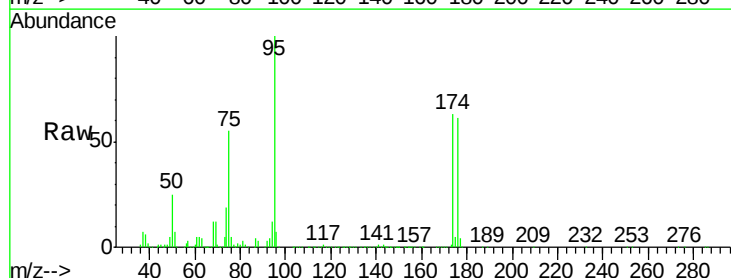
Tgt Ion: 95 Resp: 1991086

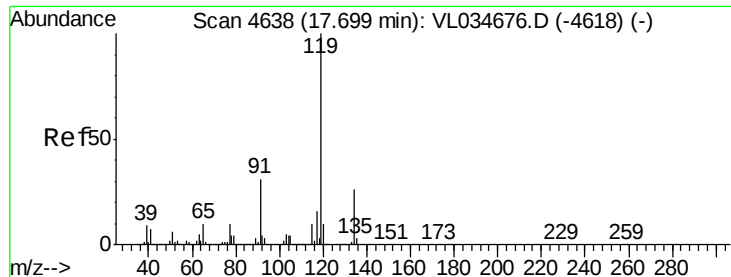
Ion Ratio Lower Upper

95 100

174 64.8 50.7 76.1

175 5.0 3.9 5.9





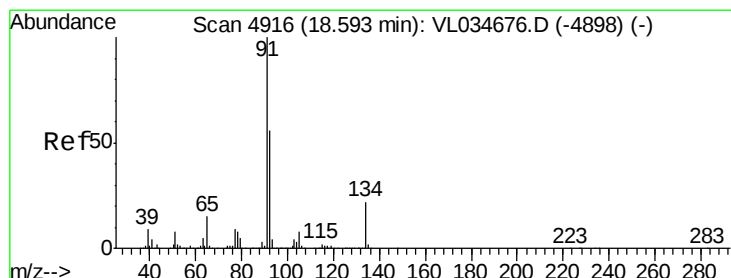
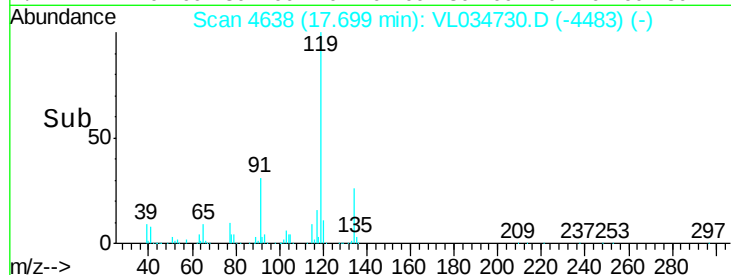
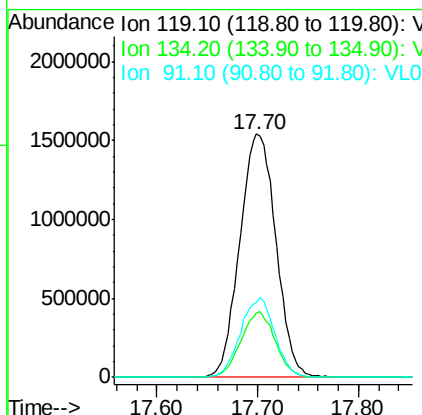
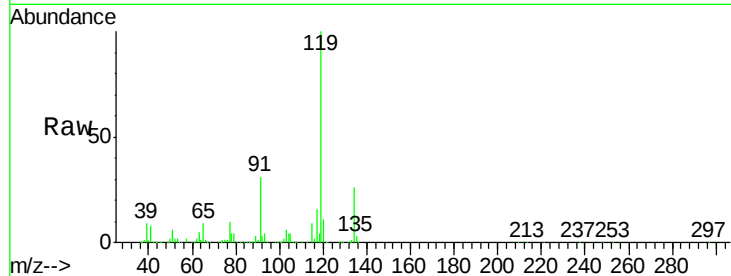
#69  
 p-Isopropyltoluene  
 Concen: 9.361 ppbv  
 RT: 17.70 min Scan# 4638  
 Delta R.T. -0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.6  | 20.6  | 31.0  |
| 91      | 31.2  | 25.3  | 37.9  |

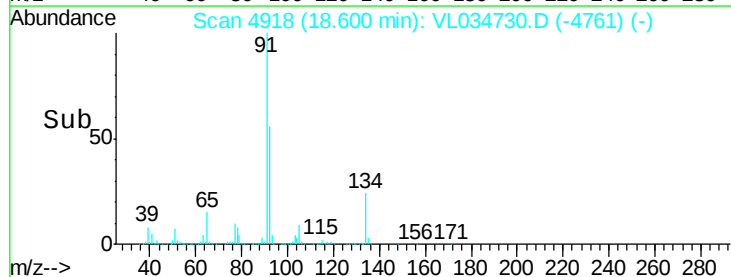
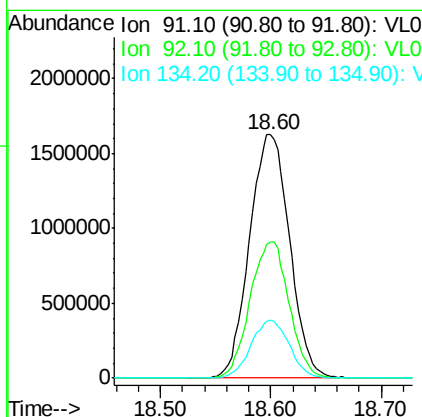
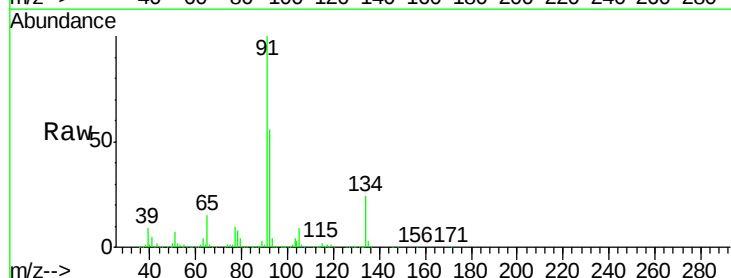
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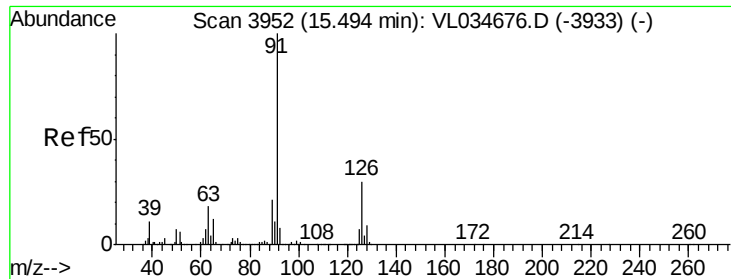
MMDadoda  
 2/28/2020 12:34:11 PM



#70  
 n-Butylbenzene  
 Concen: 9.238 ppbv  
 RT: 18.60 min Scan# 4918  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.5  | 43.8  | 65.6  |
| 134     | 22.8  | 17.6  | 26.4  |





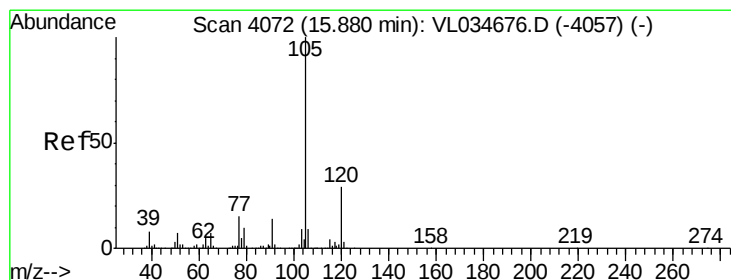
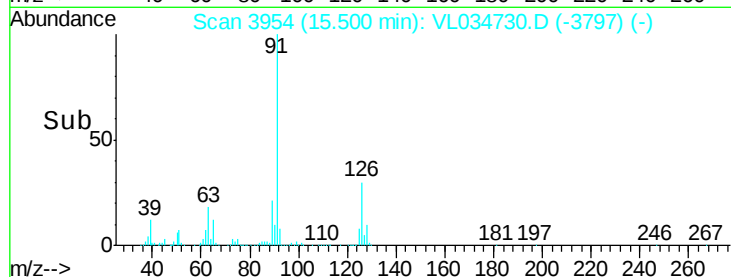
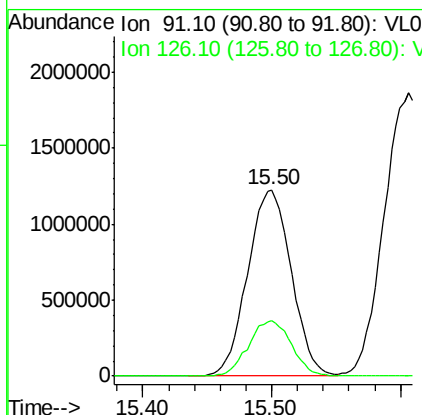
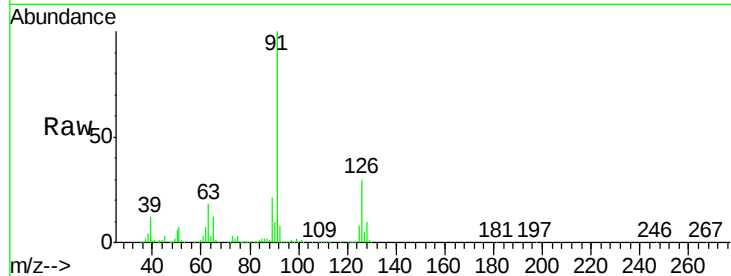
#71  
2-Chlorotoluene  
Concen: 9.334 ppbv  
RT: 15.50 min Scan# 3954  
Delta R.T. 0.01 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 91 Resp: 2885162  
Ion Ratio Lower Upper  
91 100  
126 29.5 11.8 47.2

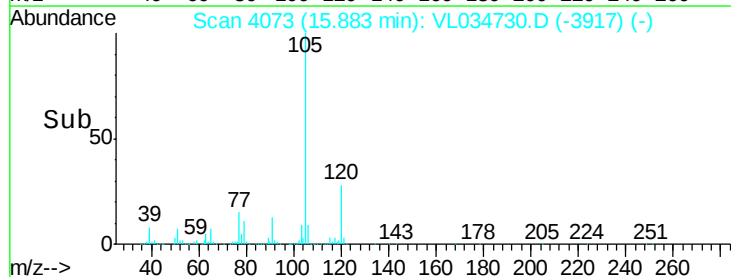
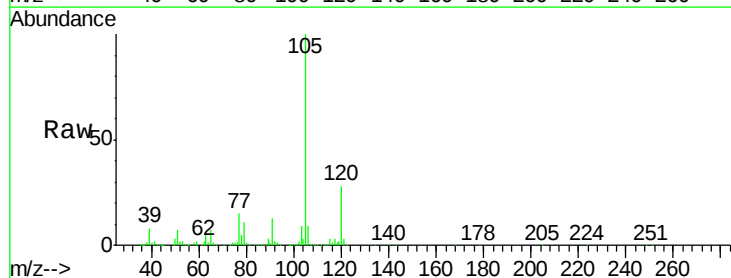
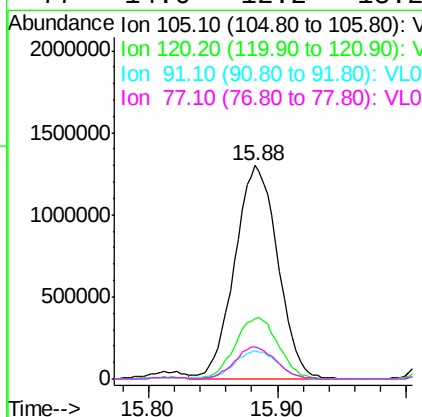
Manual Integrations  
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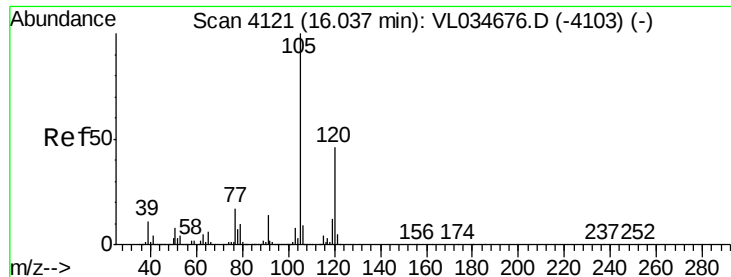
MMDadoda  
2/28/2020 12:34:11 PM



#72  
4-Ethyltoluene  
Concen: 9.907 ppbv  
RT: 15.88 min Scan# 4073  
Delta R.T. 0.00 min  
Lab File: VL034730.D  
Acq: 28 Feb 2020 5:12

Tgt Ion: 105 Resp: 3016886  
Ion Ratio Lower Upper  
105 100  
120 28.8 23.7 35.5  
91 13.2 10.9 16.3  
77 14.6 12.2 18.2





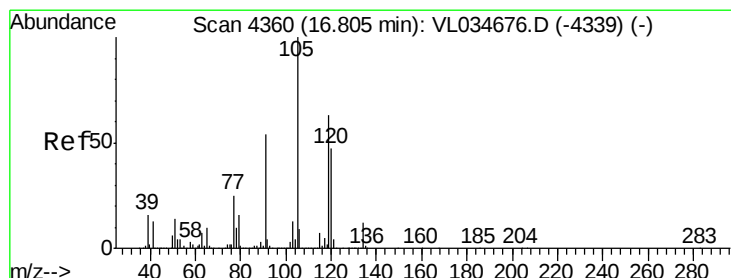
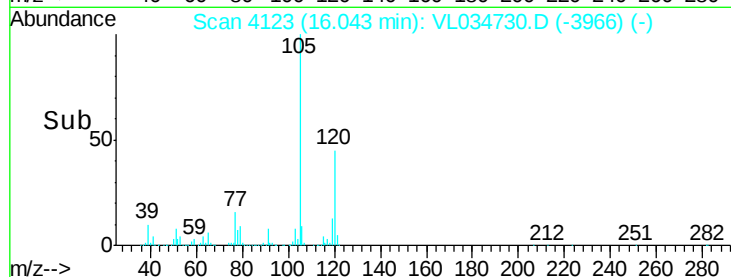
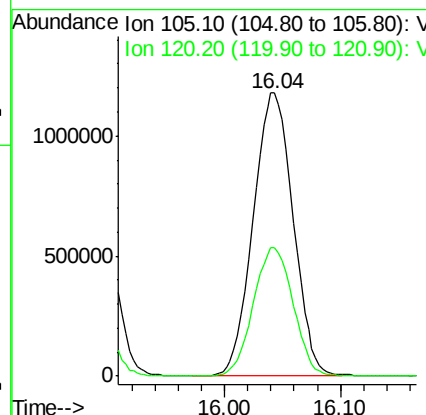
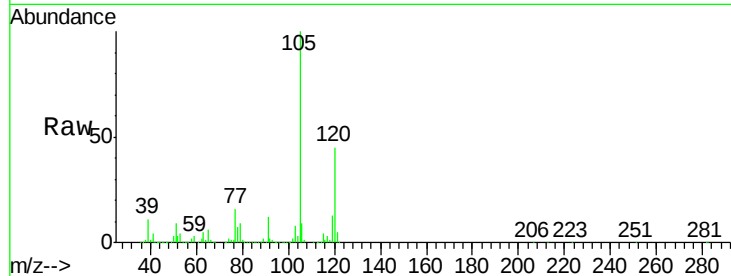
#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.634 ppbv  
 RT: 16.04 min Scan# 4123  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:105 Resp: 2822107  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 37.1 55.7

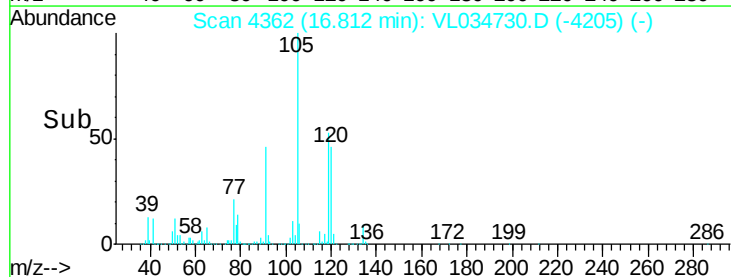
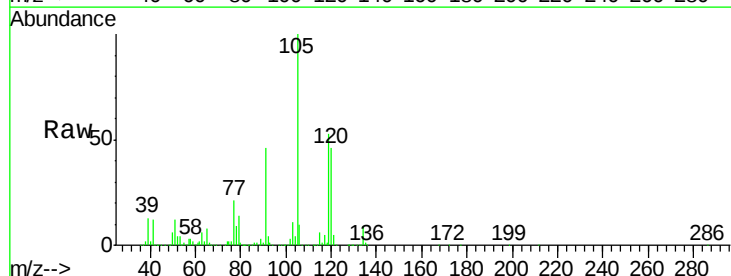
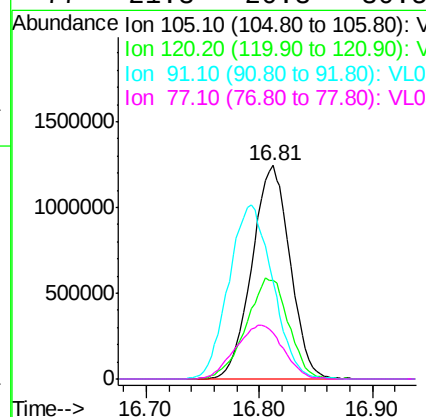
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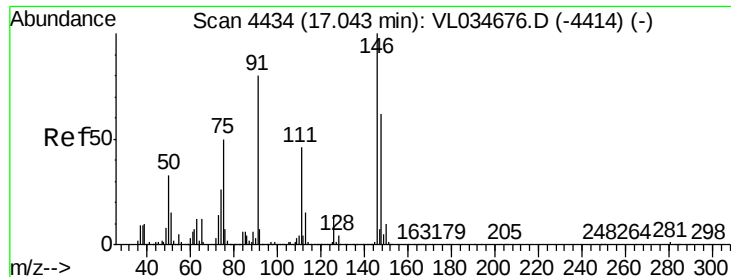
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 9.006 ppbv  
 RT: 16.81 min Scan# 4362  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Tgt Ion:105 Resp: 2913392  
 Ion Ratio Lower Upper  
 105 100  
 120 46.1 37.9 56.9  
 91 45.3 43.9 65.9  
 77 21.3 20.3 30.5





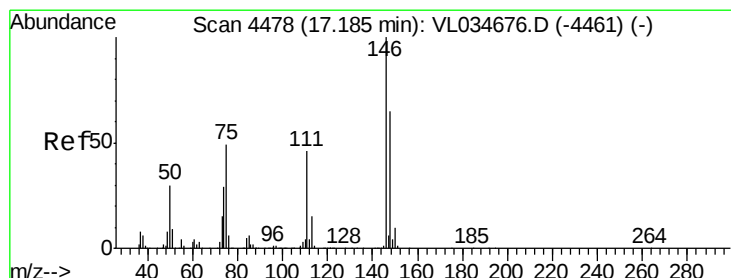
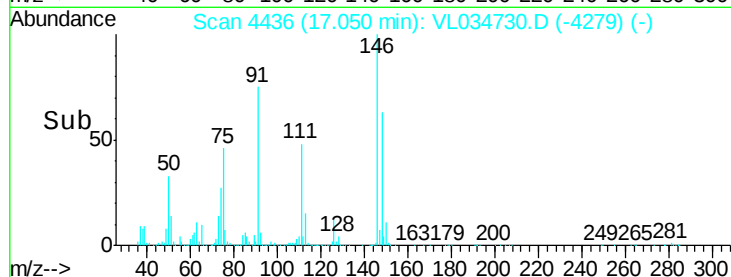
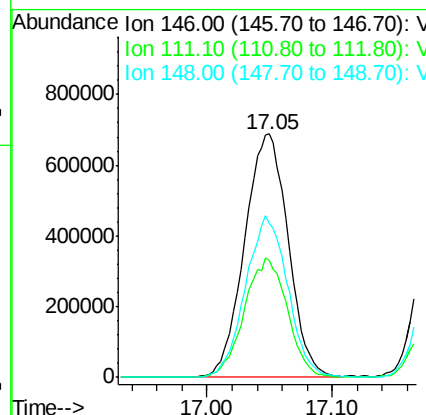
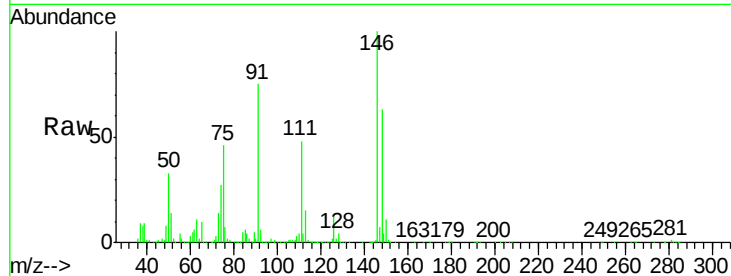
#75  
 1,3-Dichlorobenzene  
 Concen: 8.878 ppbv  
 RT: 17.05 min Scan# 4436  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:146 Resp: 1657963  
 Ion Ratio Lower Upper  
 146 100  
 111 48.4 24.4 73.2  
 148 64.3 32.5 97.4

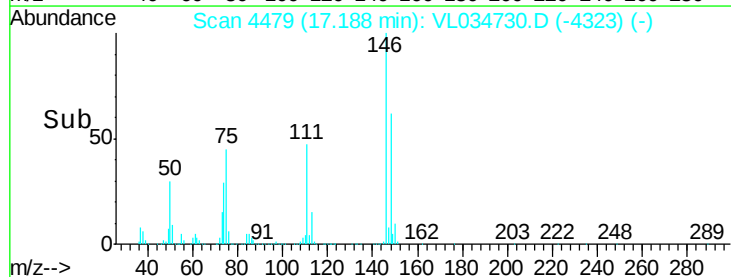
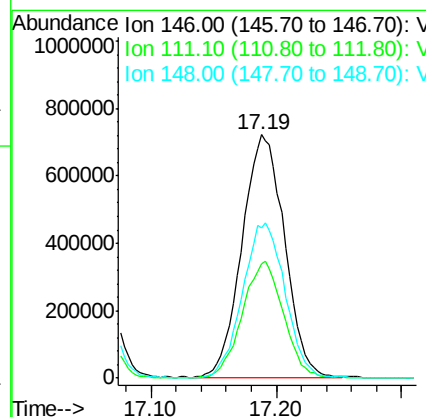
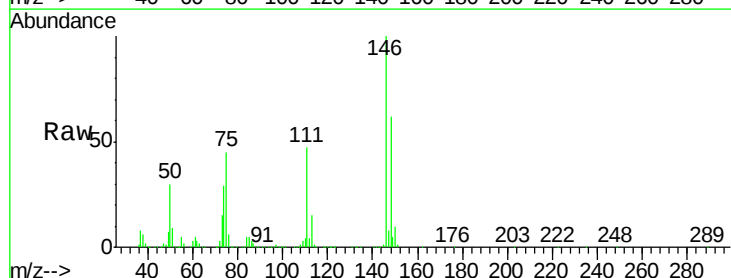
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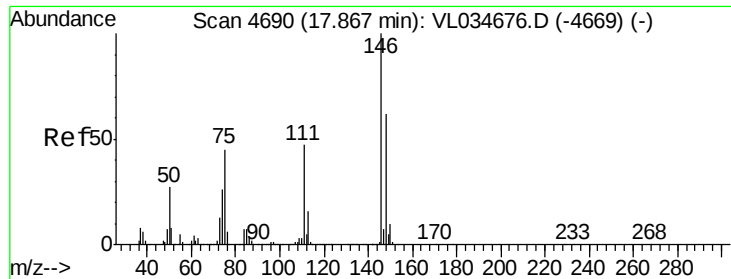
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.052 ppbv  
 RT: 17.19 min Scan# 4479  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Tgt Ion:146 Resp: 1691191  
 Ion Ratio Lower Upper  
 146 100  
 111 47.0 23.4 70.0  
 148 64.3 31.9 95.5





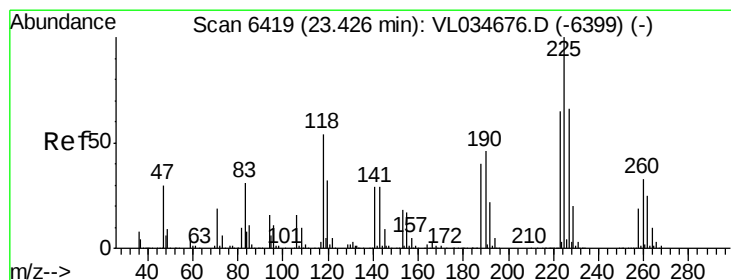
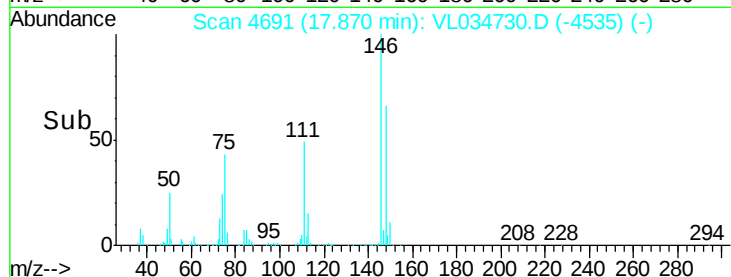
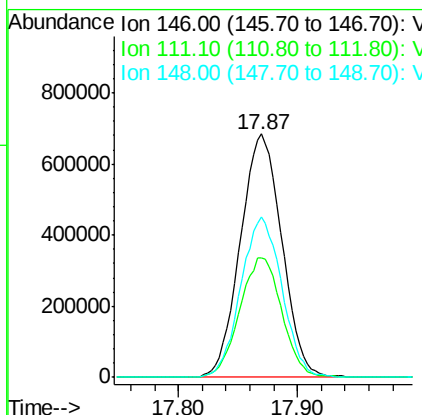
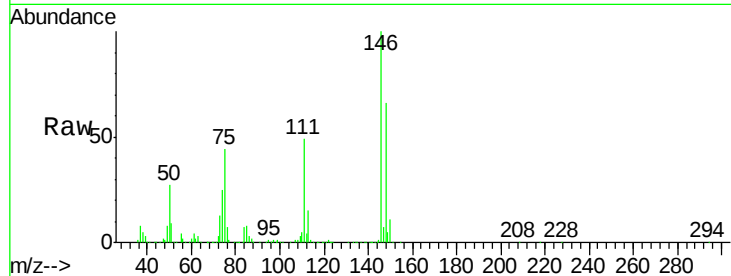
#77  
 1,2-Dichlorobenzene  
 Concen: 9.161 ppbv  
 RT: 17.87 min Scan# 4691  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:146 Resp: 1653878  
 Ion Ratio Lower Upper  
 146 100  
 111 49.8 24.9 74.7  
 148 65.2 32.0 96.0

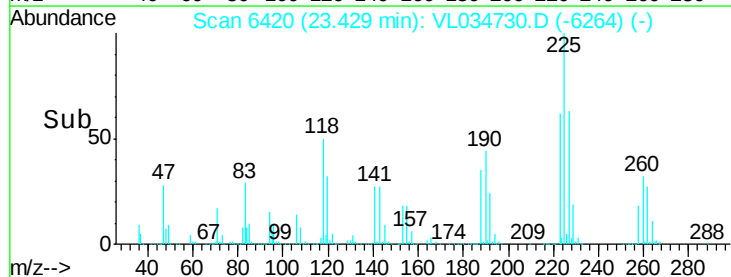
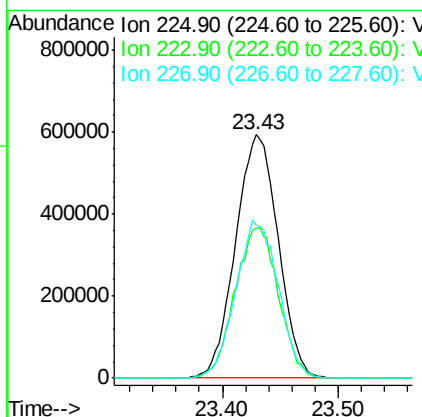
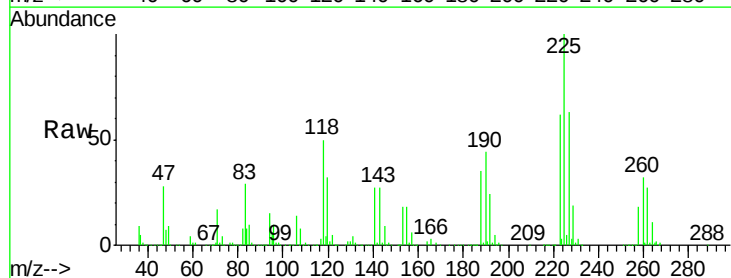
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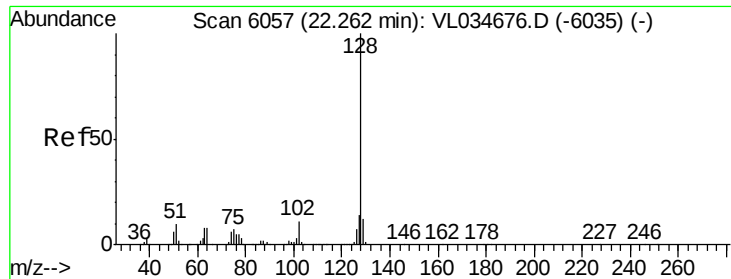
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.669 ppbv  
 RT: 23.43 min Scan# 6420  
 Delta R.T. 0.00 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Tgt Ion:225 Resp: 1519958  
 Ion Ratio Lower Upper  
 225 100  
 223 63.1 51.3 76.9  
 227 64.7 51.3 76.9





#79

Naphthalene

Concen: 10.501 ppbv

RT: 22.27 min Scan# 6058

Delta R.T. 0.00 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2989696

Ion Ratio Lower Upper

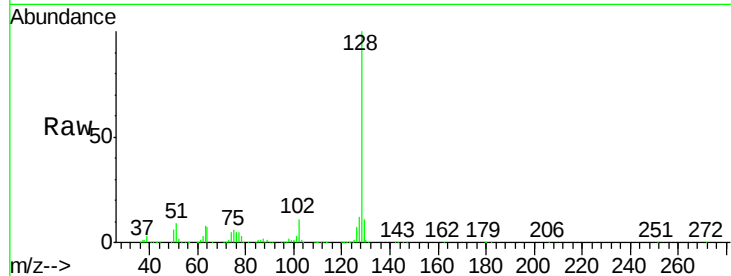
128 100

127 11.8 11.0 16.6

129 11.0 9.4 14.2

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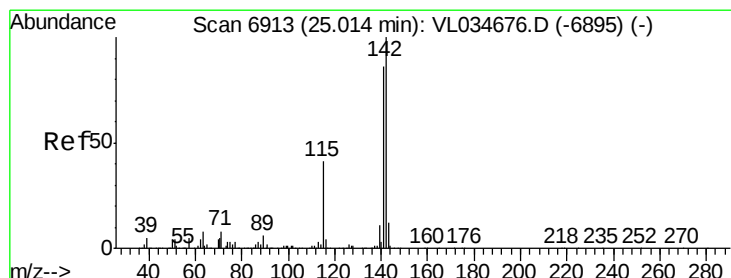
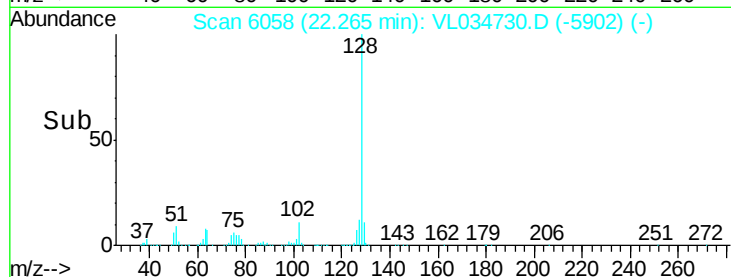
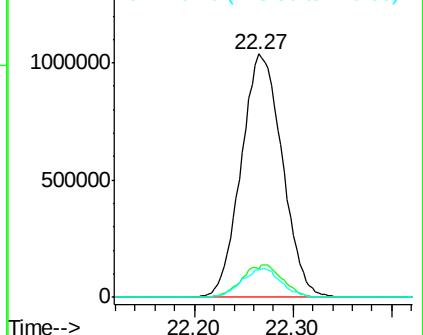
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 13.792 ppbv

RT: 25.02 min Scan# 6915

Delta R.T. 0.01 min

Lab File: VL034730.D

Acq: 28 Feb 2020 5:12

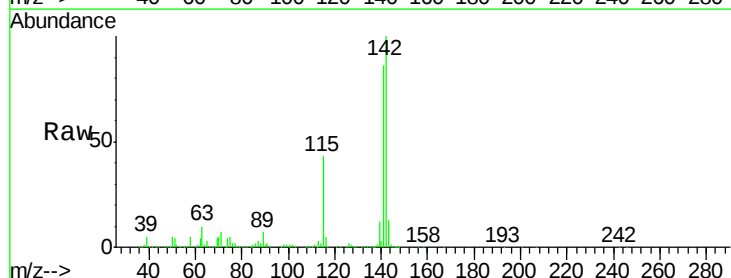
Tgt Ion:142 Resp: 1211146

Ion Ratio Lower Upper

142 100

141 85.0 66.5 99.7

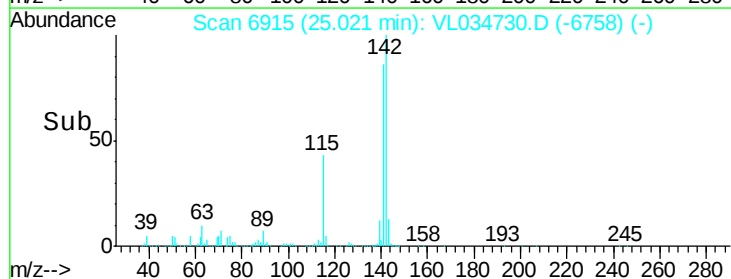
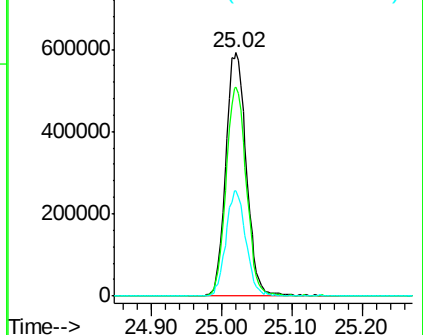
115 42.1 30.6 46.0

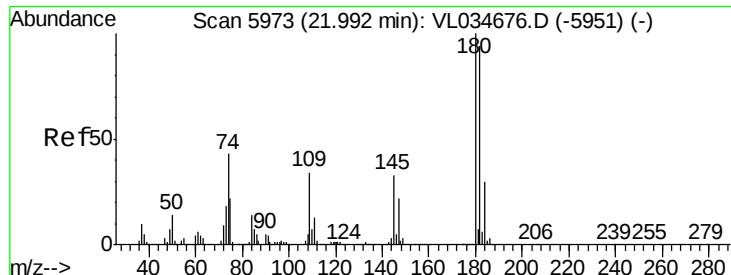


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.149 ppbv  
 RT: 22.00 min Scan# 5975  
 Delta R.T. 0.01 min  
 Lab File: VL034730.D  
 Acq: 28 Feb 2020 5:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.7  | 76.5  | 114.7 |
| 184     | 30.8  | 25.2  | 37.8  |

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