

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL102419\  
 Data File : VL034344.D  
 Acq On : 24 Oct 2019 13:01  
 Operator : SY/AP  
 Sample : VL1024ABS01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL1024ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/28/2019 9:43:03 AM

Quant Time: Oct 25 01:47:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101619AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct 1  
 QLast Update : Thu Oct 17 05:12:37 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1107109  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 2236559  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.15 | 117  | 2436040  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.48  | 95    | 1941808  | 9.41     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.10% |

## Target Compounds

|                                | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85   | 1864322  | 9.768  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 2.96 | 51   | 1122965  | 8.654  | ppbv   | 100    |
| 4) Chloromethane               | 3.12 | 50   | 680816   | 8.870  | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.24 | 62   | 628814   | 8.591  | ppbv   | 98     |
| 6) Bromomethane                | 3.46 | 94   | 332435   | 9.276  | ppbv   | 96     |
| 7) Chloroethane                | 3.54 | 64   | 228895   | 8.886  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 1444834  | 8.736  | ppbv   | 98     |
| 9) Propene                     | 2.99 | 41   | 515531   | 8.962  | ppbv   | 98     |
| 10) Heptane                    | 8.16 | 43   | 1410624  | 9.554  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 1617147  | 8.924  | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1093035  | 9.207  | ppbv   | 99     |
| 13) Ethanol                    | 3.59 | 45   | 85981    | 6.676  | ppbv   | 98     |
| 14) Bromoethene                | 3.73 | 108  | 443120   | 9.480  | ppbv   | 97     |
| 15) Acetone                    | 3.84 | 43   | 1204226  | 7.605  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 589125   | 9.156  | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 838295   | 8.294  | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 484428   | 9.320  | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 680260   | 7.701  | ppbv # | 99     |
| 20) Methylene Chloride         | 4.34 | 84   | 435872   | 7.614  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.41 | 41   | 838016   | 9.573  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96   | 496557   | 9.577  | ppbv   | 99     |
| 23) Vinyl Acetate              | 5.08 | 43   | 1837553  | 9.292  | ppbv   | 98     |
| 24) 1,1-Dichloroethane         | 5.02 | 63   | 1314843  | 8.959  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.69 | 43   | 2347539  | 8.781  | ppbv   | 99     |
| 26) Hexane                     | 5.70 | 57   | 1020557  | 8.956  | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.55 | 76   | 1257061  | 10.626 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73   | 1670783  | 9.688  | ppbv   | 99     |
| 29) Chloroform                 | 5.77 | 83   | 1622635  | 9.002  | ppbv   | 99     |
| 30) Cyclohexane                | 7.16 | 84   | 814746   | 9.722  | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61   | 1084586  | 9.379  | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane      | 6.54 | 97   | 1605557  | 9.160  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.25 | 43   | 1578317  | 8.634  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.05 | 117  | 1692926  | 8.690  | ppbv   | 99     |
| 36) Benzene                    | 6.92 | 78   | 1925468  | 8.973  | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.33 | 62   | 1379102  | 8.623  | ppbv   | 100    |
| 38) Trichloroethene            | 7.87 | 130  | 758282   | 8.806  | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.65 | 63   | 811647   | 8.784  | ppbv   | 99     |
| 40) 1,4-Dioxane                | 7.87 | 88   | 275007   | 8.469  | ppbv   | 77     |
| 41) Tetrahydrofuran            | 6.07 | 42   | 923141   | 9.099  | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.83 | 83   | 1773308  | 9.053  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.05 | 69   | 828860   | 9.339  | ppbv   | 97     |

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL102419\  
 Data File : VL034344.D  
 Acq On : 24 Oct 2019 13:01  
 Operator : SY/AP  
 Sample : VL1024ABS01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Manual Integrations  
 APPROVED

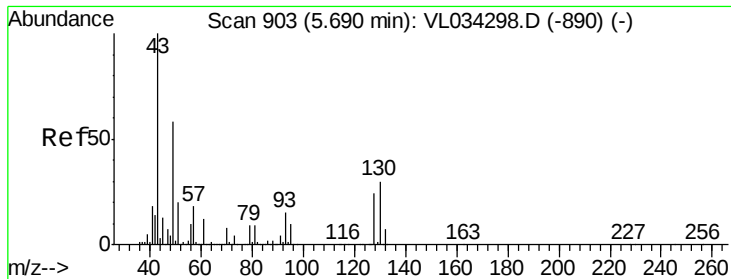
MMDadoda  
 10/28/2019 9:43:03 AM

Quant Time: Oct 25 01:47:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101619AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Thu Oct 1  
 QLast Update : Thu Oct 17 05:12:37 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.90  | 57   | 3440480  | 8.662  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.32  | 75   | 1135971  | 10.505 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.75  | 75   | 1267252  | 10.201 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.52  | 97   | 816219   | 8.721  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.36 | 129  | 1470897  | 9.580  | ppbv   | 99       |
| 49) Bromoform                 | 13.10 | 173  | 1321327  | 9.712  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.78  | 43   | 2351795  | 8.986  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.18 | 43   | 2009041  | 9.365  | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.28 | 164  | 727074   | 8.644  | ppbv   | 96       |
| 53) Toluene                   | 9.85  | 91   | 2233949  | 9.433  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.67 | 107  | 1252907  | 9.032  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.18 | 131  | 977088   | 8.703  | ppbv # | 61       |
| 57) Chlorobenzene             | 12.20 | 112  | 1690243  | 8.317  | ppbv # | 96       |
| 58) Ethyl Benzene             | 12.77 | 91   | 3062088  | 8.992  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.06 | 91   | 5068043m | 17.177 | ppbv   |          |
| 60) o-Xylene                  | 13.75 | 91   | 2554445  | 8.694  | ppbv   | 99       |
| 61) Styrene                   | 13.59 | 104  | 1933563  | 9.348  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.73 | 105  | 3338051  | 8.607  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.74 | 83   | 1764332  | 7.473  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.63 | 120  | 870673   | 8.748  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.82 | 119  | 2925861  | 8.512  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.06 | 91   | 1401096  | 10.320 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.36 | 105  | 4069857  | 8.413  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.72 | 119  | 3386355  | 8.587  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.62 | 91   | 3591430  | 8.370  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.52 | 91   | 2612938  | 8.689  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.91 | 105  | 2922577  | 8.849  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.07 | 105  | 2808843  | 8.584  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.83 | 105  | 2855297  | 8.367  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.07 | 146  | 1627030  | 7.941  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.21 | 146  | 1645753  | 8.224  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.89 | 146  | 1581995  | 7.876  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.45 | 225  | 1456359  | 8.765  | ppbv   | 99       |
| 79) Naphthalene               | 22.29 | 128  | 2761845  | 11.080 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.04 | 142  | 1334362  | 18.519 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 22.02 | 180  | 1619120  | 9.945  | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 49 Resp: 1107109

Ion Ratio Lower Upper

49 100

128 43.3 20.6 61.8

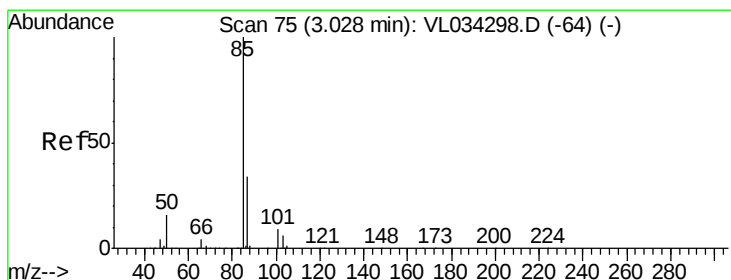
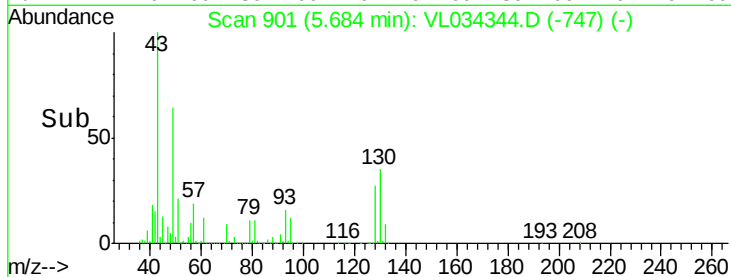
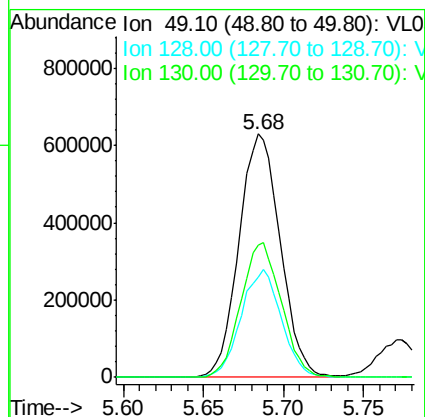
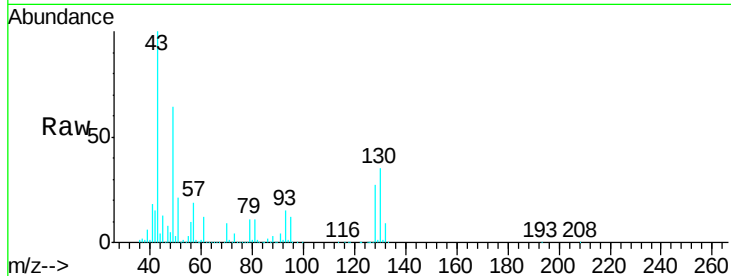
130 54.7 26.2 78.5

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 9.768 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL034344.D

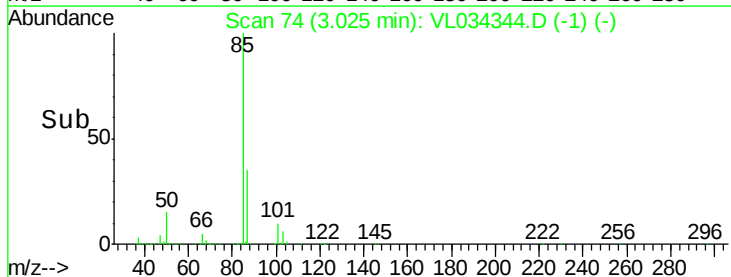
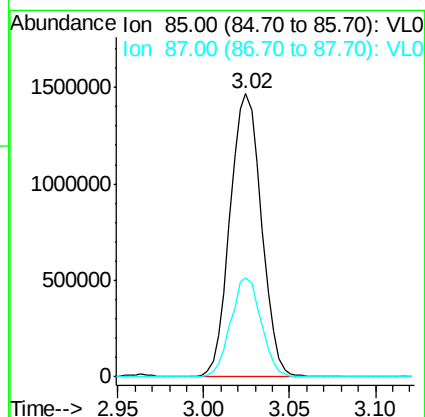
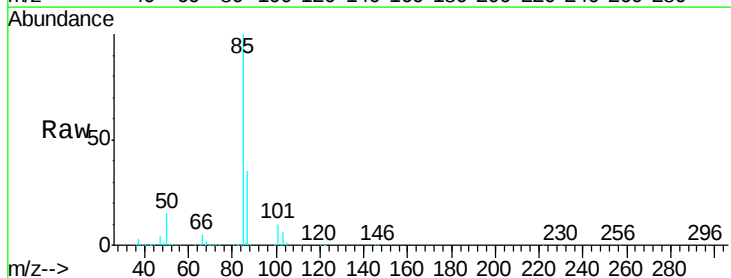
Acq: 24 Oct 2019 13:01

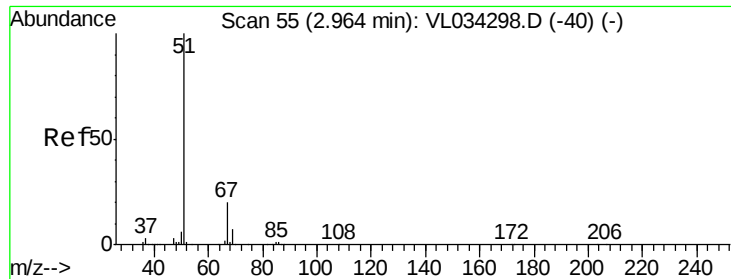
Tgt Ion: 85 Resp: 1864322

Ion Ratio Lower Upper

85 100

87 35.0 27.0 40.6





#3

Chlorodifluoromethane

Concen: 8.654 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 51 Resp: 1122965

Ion Ratio Lower Upper

51 100

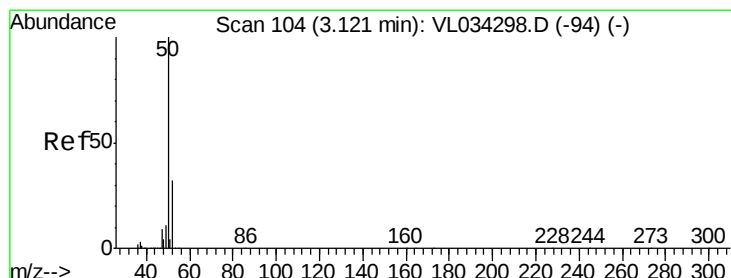
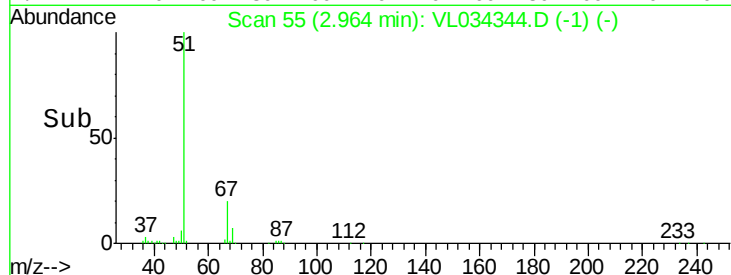
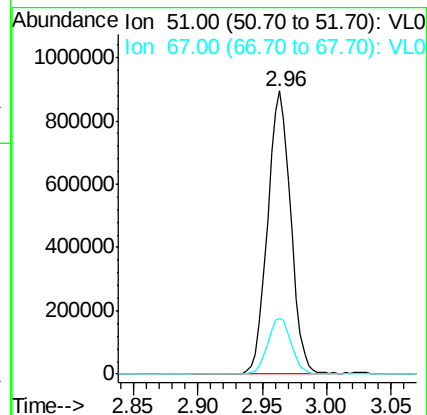
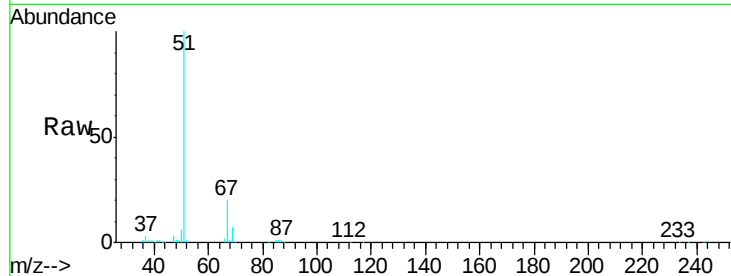
67 20.0 15.8 23.8

Manual Integrations

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10/28/2019 9:43:03 AM



#4

Chloromethane

Concen: 8.870 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.00 min

Lab File: VL034344.D

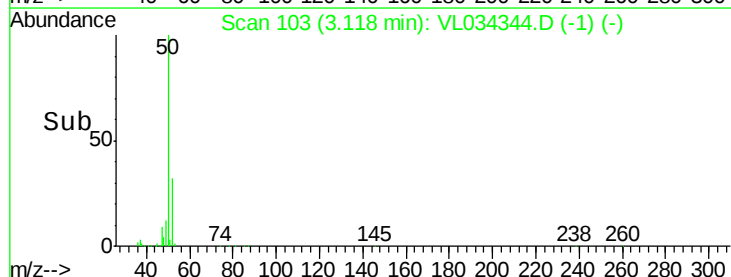
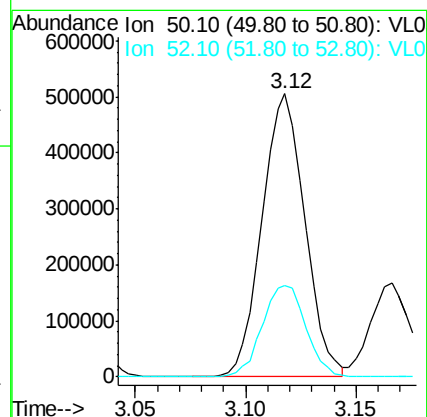
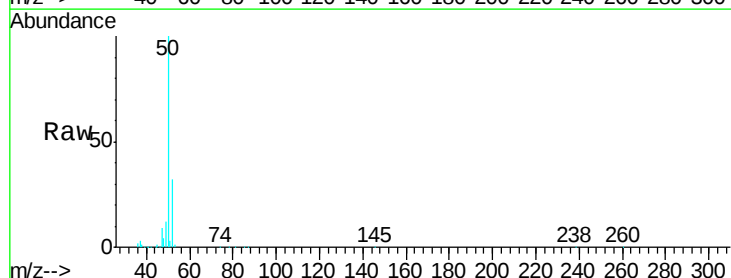
Acq: 24 Oct 2019 13:01

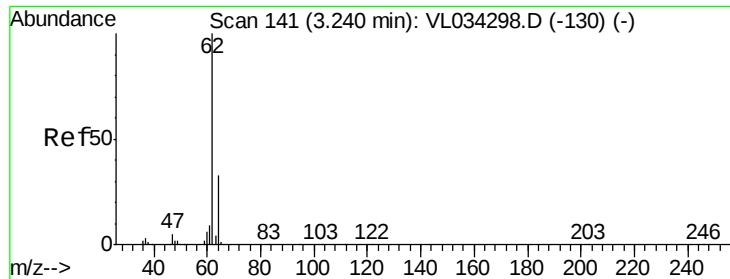
Tgt Ion: 50 Resp: 680816

Ion Ratio Lower Upper

50 100

52 32.3 25.4 38.2





#5

Vinyl Chloride

Concen: 8.591 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 62 Resp: 628814

Ion Ratio Lower Upper

62 100

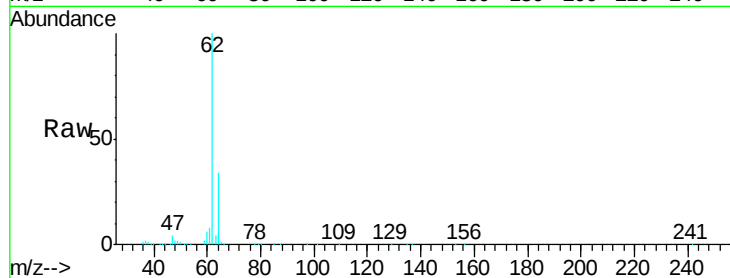
64 33.6 26.0 39.0

Manual Integrations

APPROVED

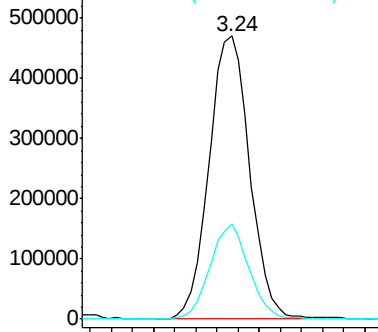
MMDadoda

10/28/2019 9:43:03 AM

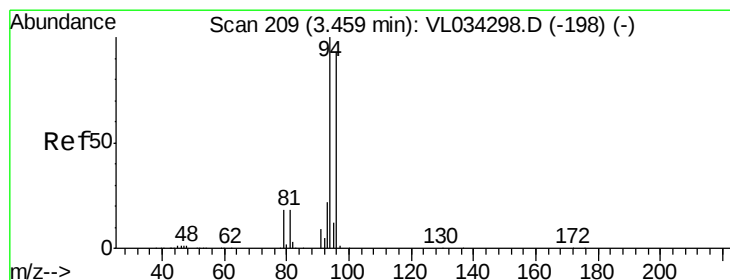
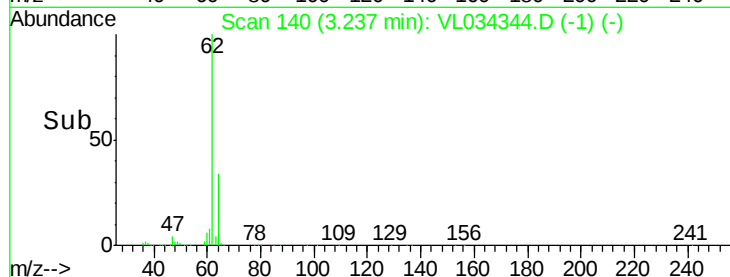


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.276 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034344.D

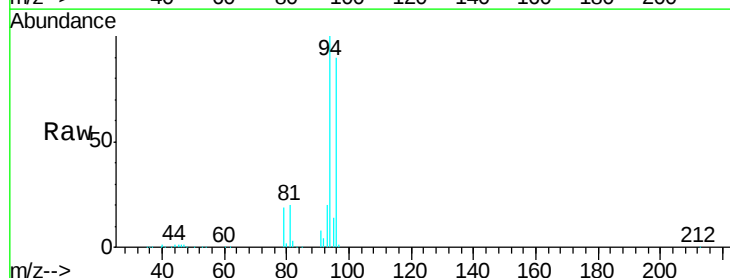
Acq: 24 Oct 2019 13:01

Tgt Ion: 94 Resp: 332435

Ion Ratio Lower Upper

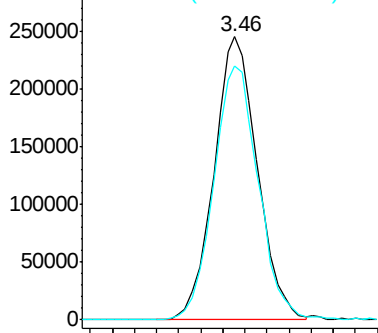
94 100

96 89.8 74.6 112.0

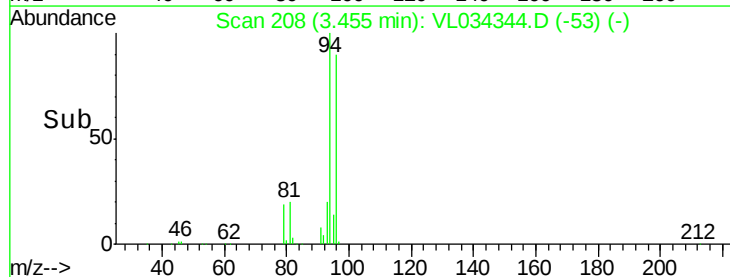


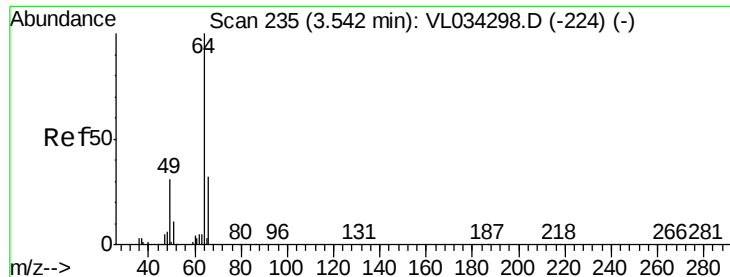
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 8.886 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 64 Resp: 228895

Ion Ratio Lower Upper

64 100

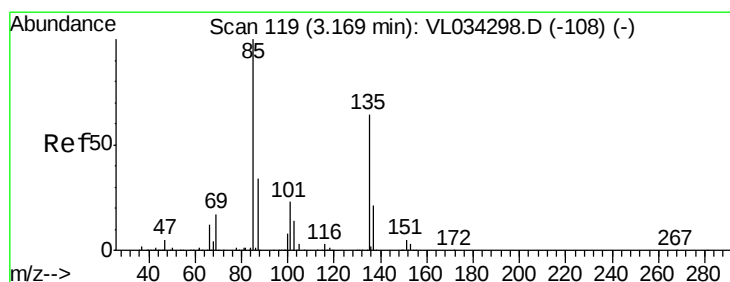
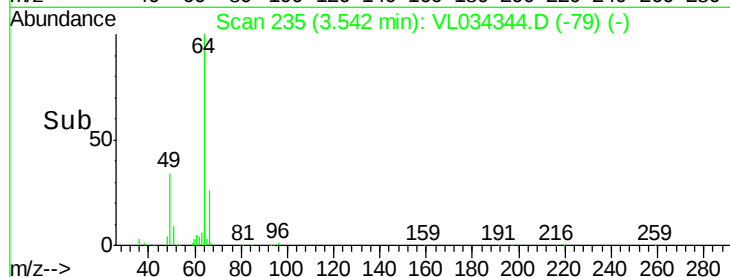
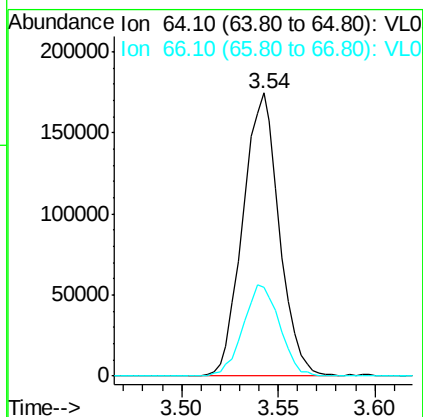
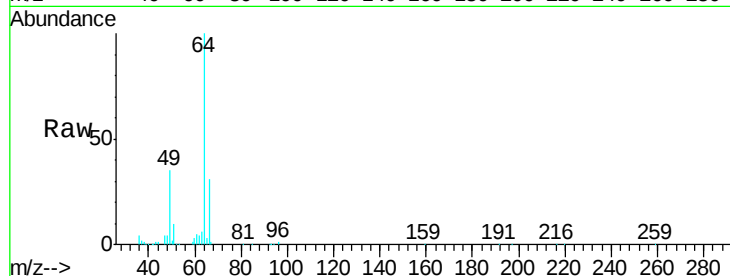
66 31.4 25.4 38.0

Manual Integrations

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MMDadoda

10/28/2019 9:43:03 AM



#8

Dichlorotetrafluoroethane

Concen: 8.736 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.00 min

Lab File: VL034344.D

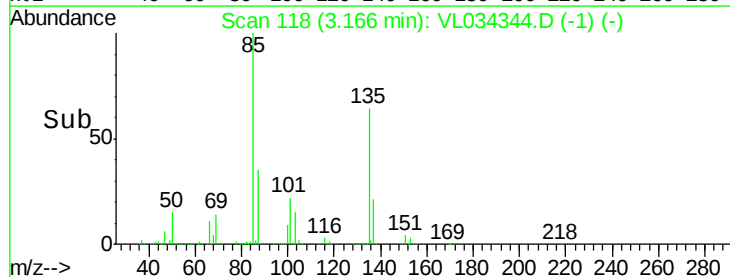
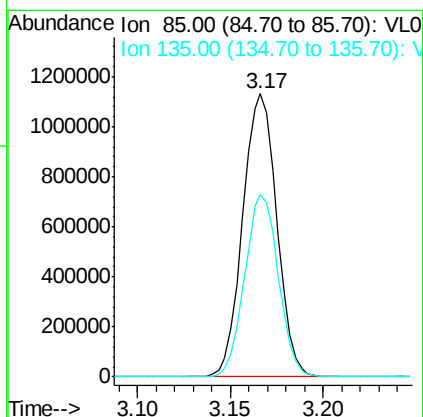
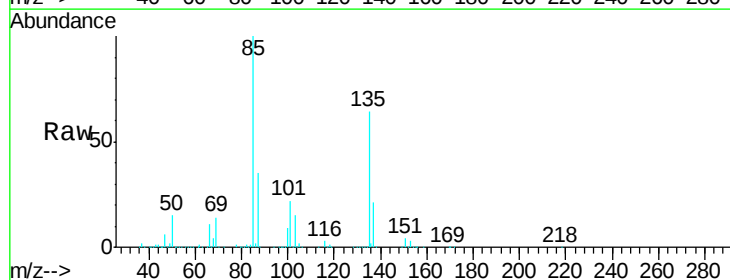
Acq: 24 Oct 2019 13:01

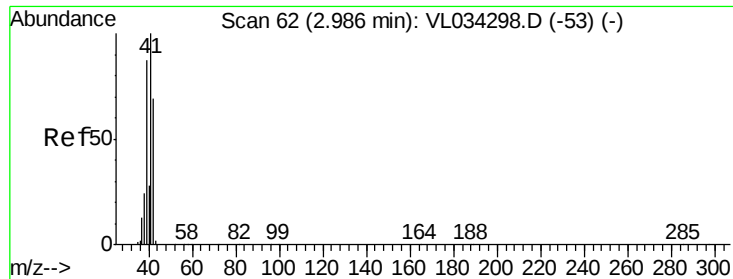
Tgt Ion: 85 Resp: 1444834

Ion Ratio Lower Upper

85 100

135 64.0 50.2 75.2





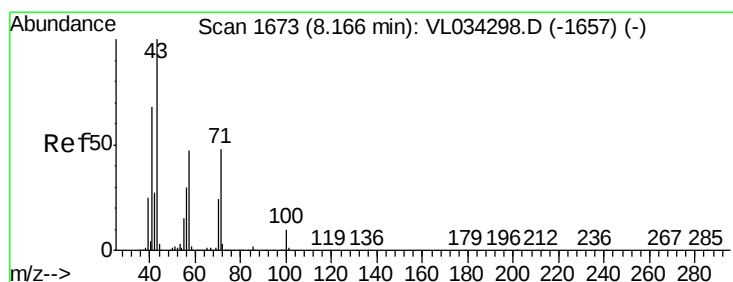
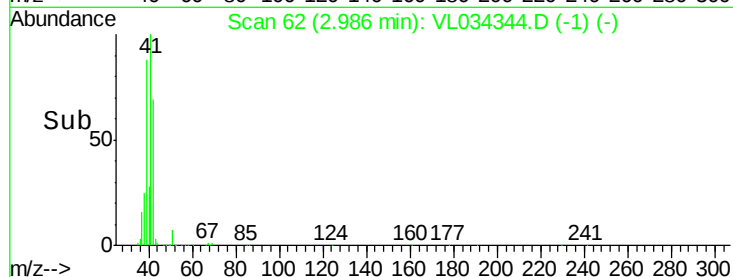
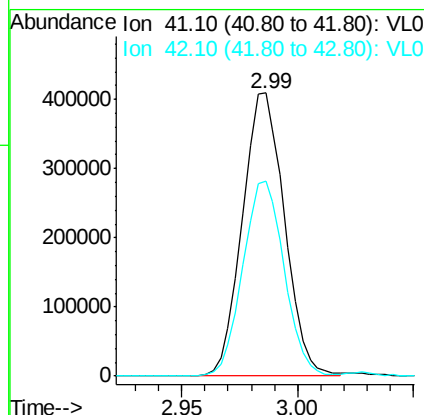
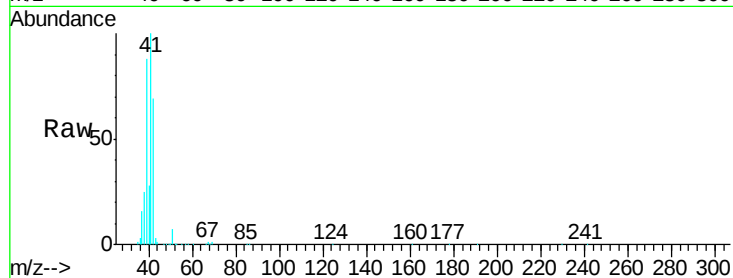
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 Propene  
 Concen: 8.962 ppbv  
 RT: 2.99 min Scan# 62  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion: 41 Resp: 515531  
 Ion Ratio Lower Upper  
 41 100  
 42 69.0 53.9 80.9

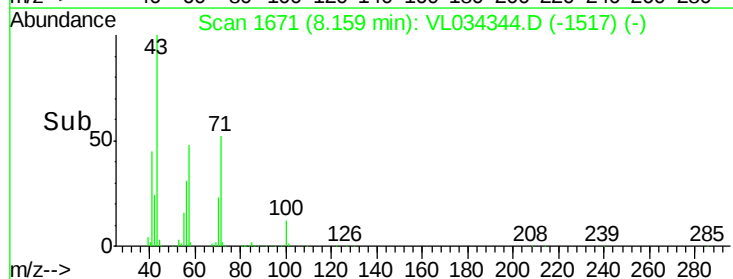
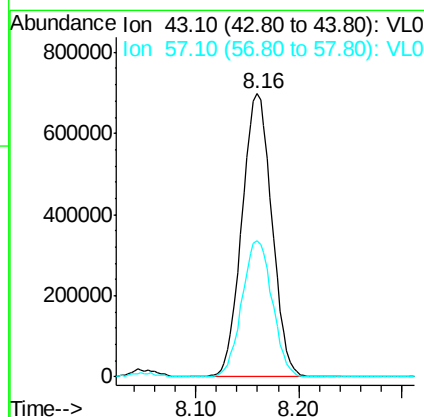
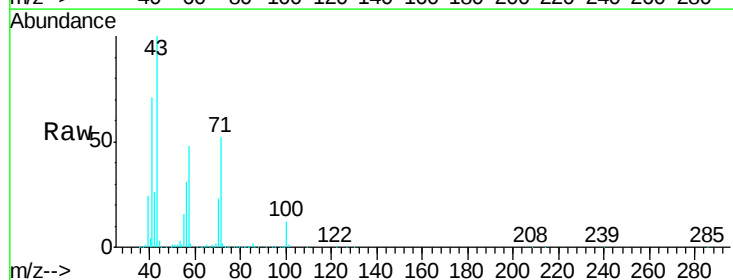
Manual Integrations  
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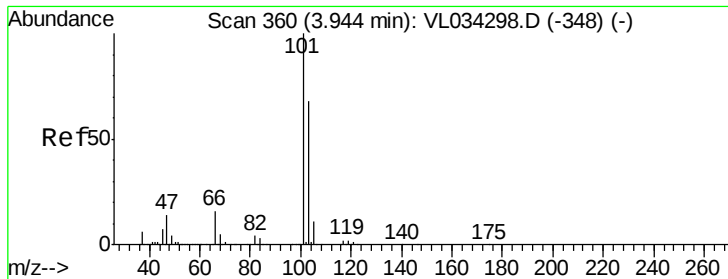
MMDadoda  
 10/28/2019 9:43:03 AM



#10  
 Heptane  
 Concen: 9.554 ppbv  
 RT: 8.16 min Scan# 1671  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 43 Resp: 1410624  
 Ion Ratio Lower Upper  
 43 100  
 57 48.7 39.5 59.3





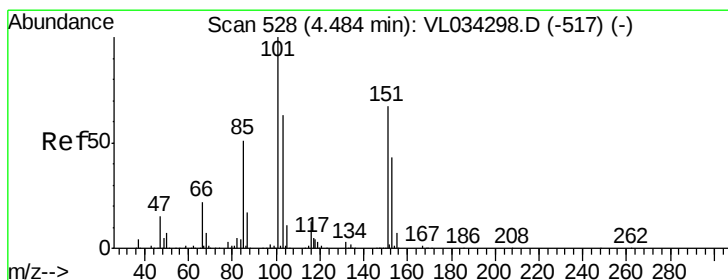
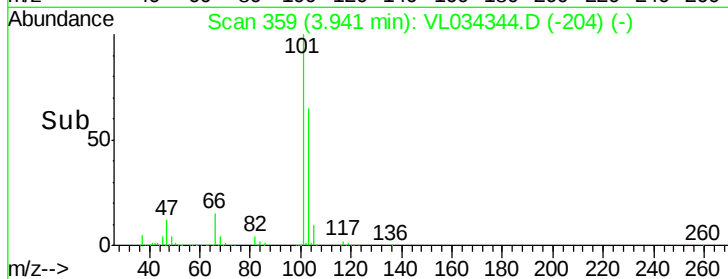
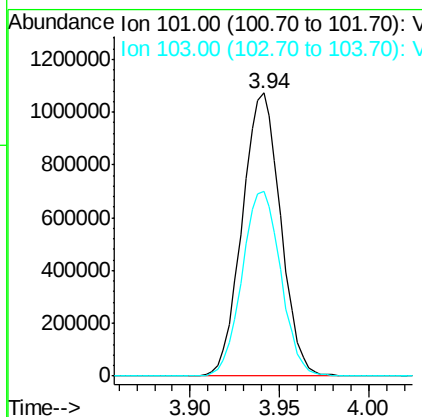
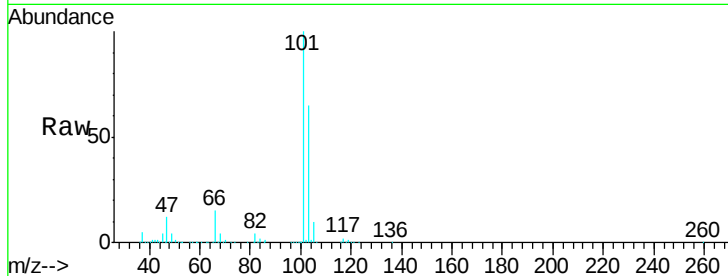
#11  
 Trichlorofluoromethane  
 Concen: 8.924 ppbv  
 RT: 3.94 min Scan# 359  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion:101 Resp: 1617147  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 54.5 81.7

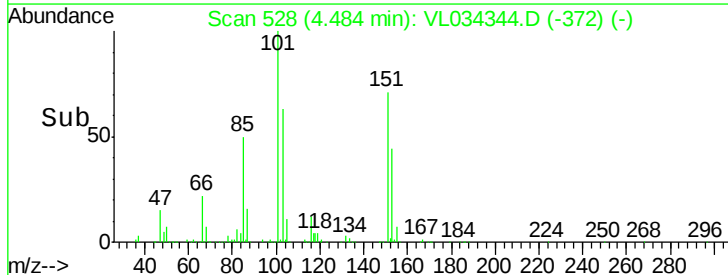
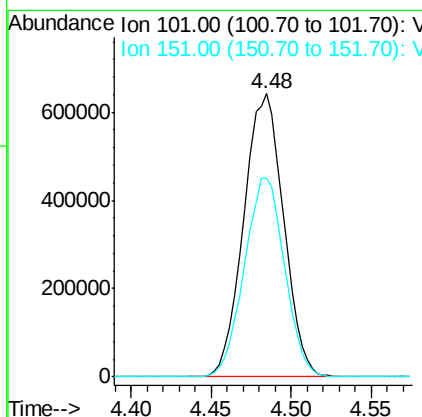
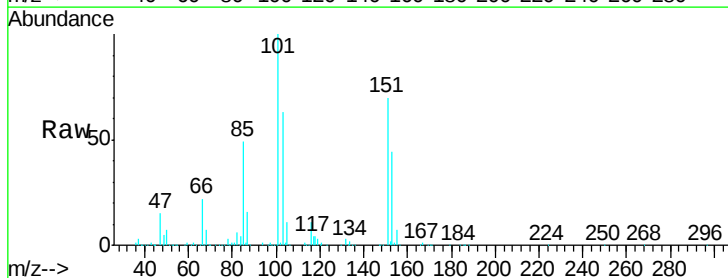
Manual Integrations  
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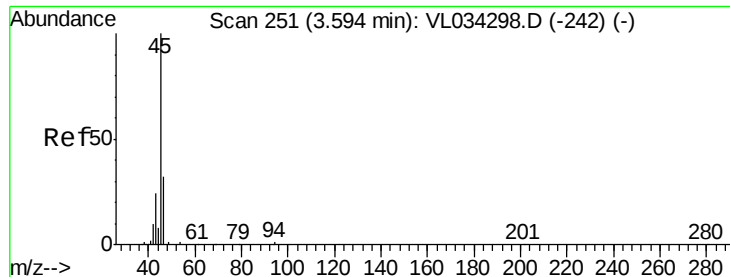
MMDadoda  
 10/28/2019 9:43:03 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.207 ppbv  
 RT: 4.48 min Scan# 528  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion:101 Resp: 1093035  
 Ion Ratio Lower Upper  
 101 100  
 151 71.3 57.4 86.2





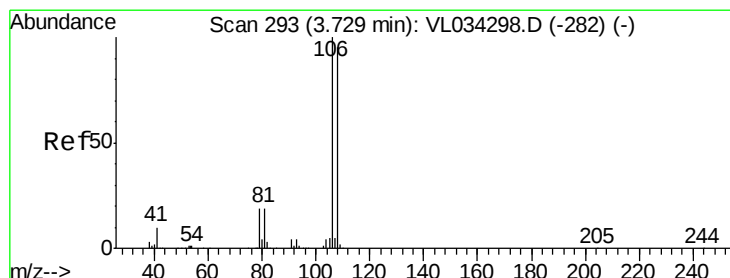
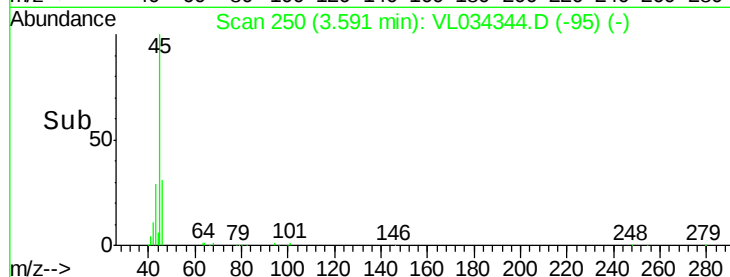
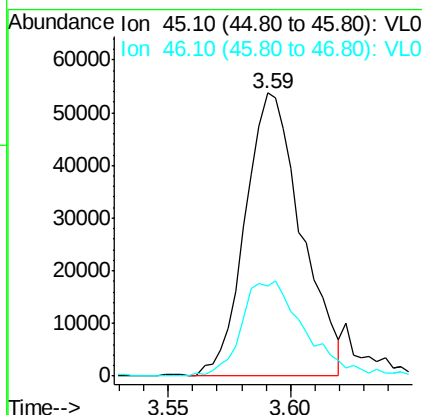
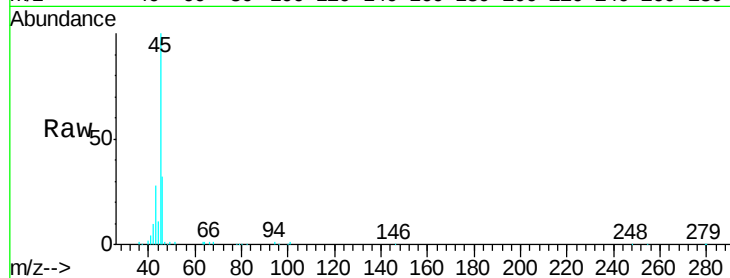
#13  
Ethanol  
Concen: 6.676 ppbv  
RT: 3.59 min Scan# 250  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 45 Resp: 85981  
Ion Ratio Lower Upper  
45 100  
46 38.3 15.8 63.2

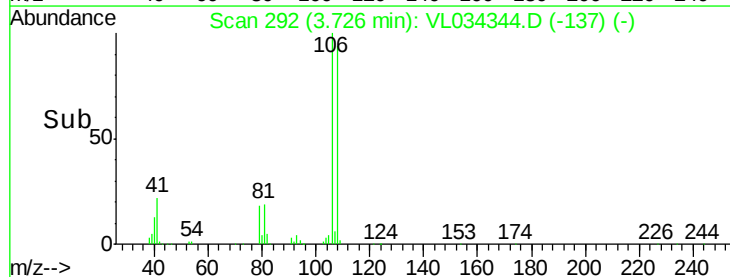
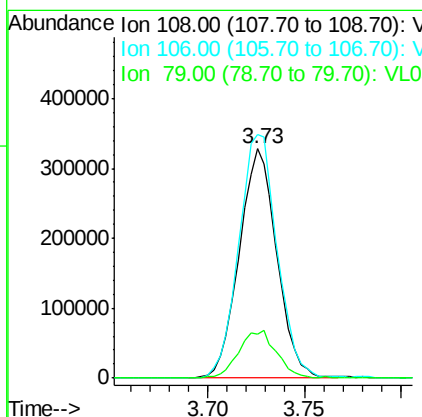
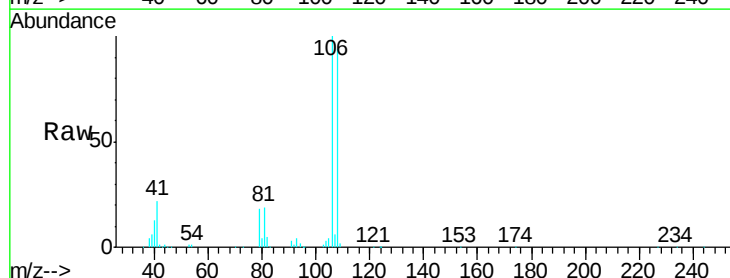
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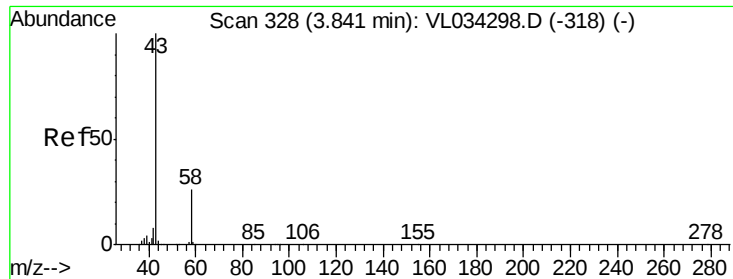
MMDadoda  
10/28/2019 9:43:03 AM



#14  
Bromoethene  
Concen: 9.480 ppbv  
RT: 3.73 min Scan# 292  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 108 Resp: 443120  
Ion Ratio Lower Upper  
108 100  
106 109.2 84.8 127.2  
79 21.4 17.0 25.4





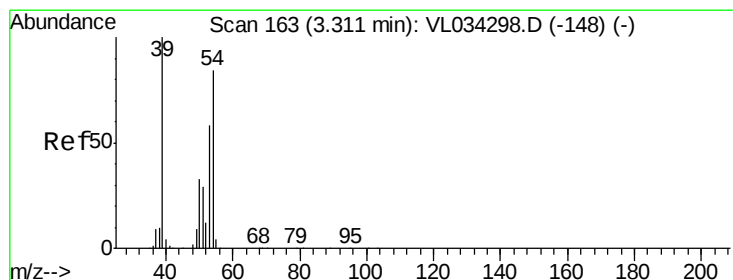
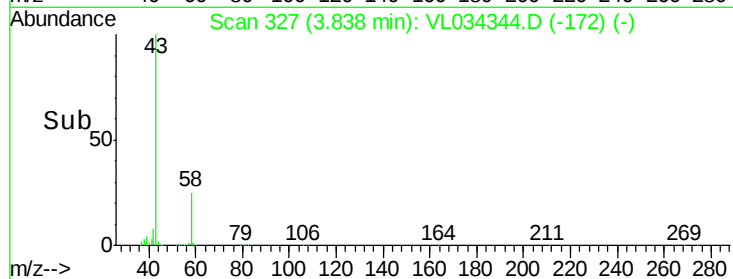
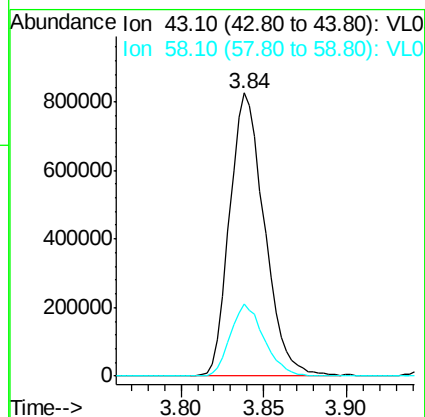
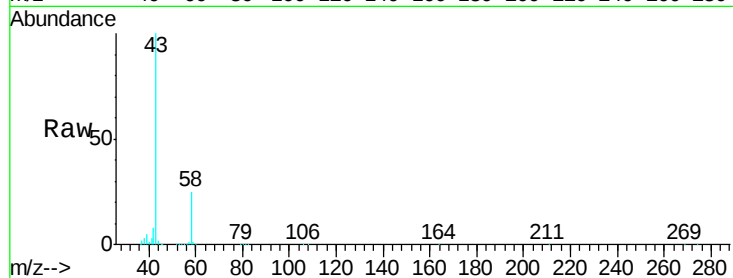
#15  
Acetone  
Concen: 7.605 ppbv  
RT: 3.84 min Scan# 327  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 43 Resp: 1204226  
Ion Ratio Lower Upper  
43 100  
58 24.9 20.4 30.6

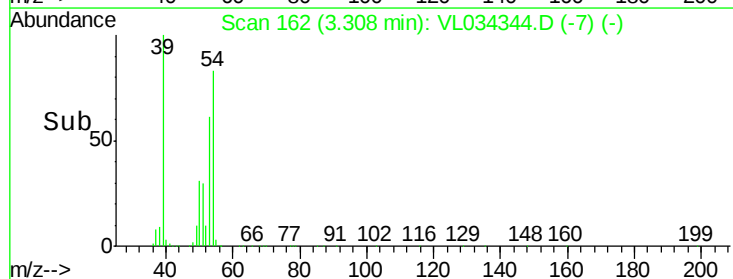
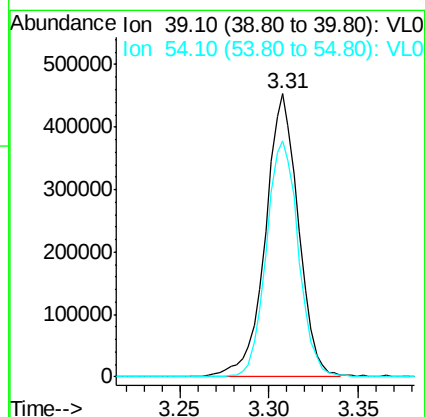
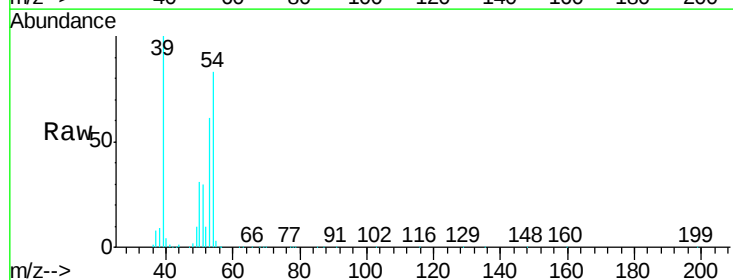
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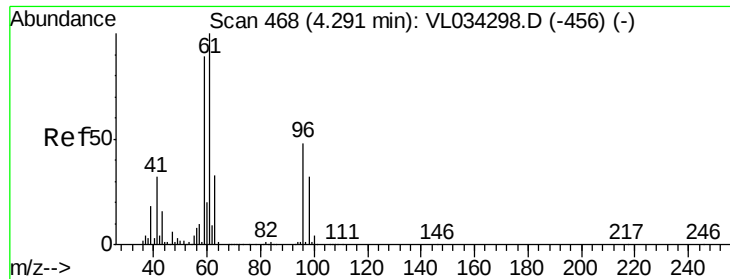
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#16  
1,3-Butadiene  
Concen: 9.156 ppbv  
RT: 3.31 min Scan# 162  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 39 Resp: 589125  
Ion Ratio Lower Upper  
39 100  
54 81.4 63.9 95.9





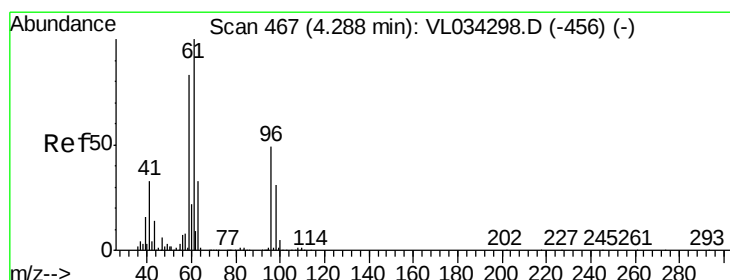
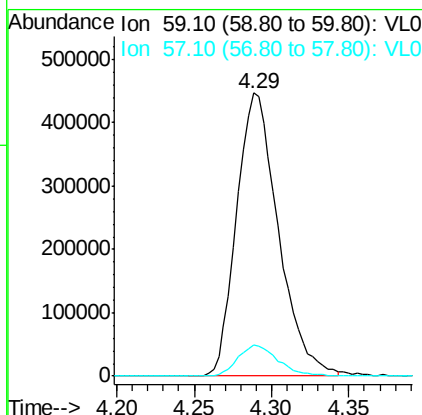
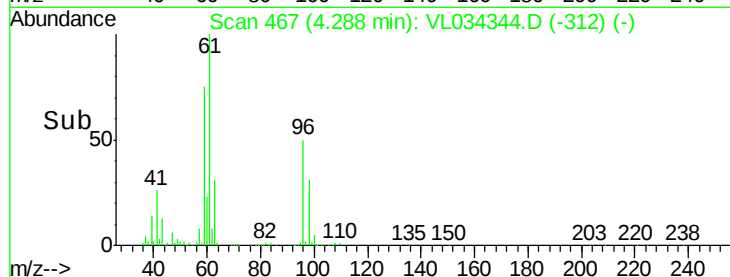
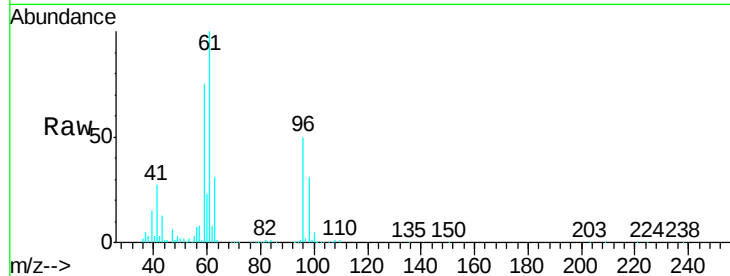
#17  
tert-Butyl alcohol  
Concen: 8.294 ppbv  
RT: 4.29 min Scan# 467  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 59 Resp: 838295  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.8 13.2

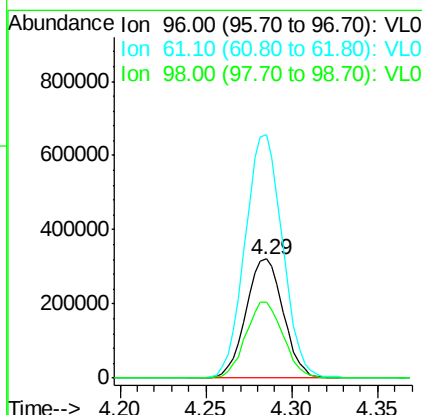
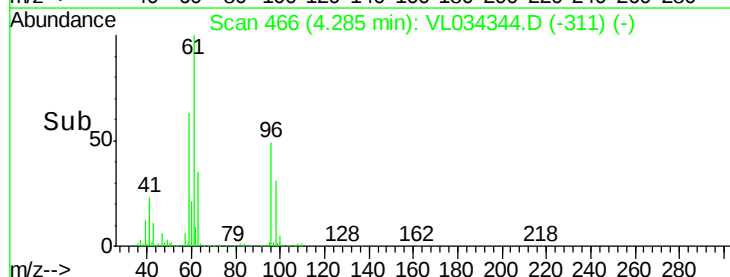
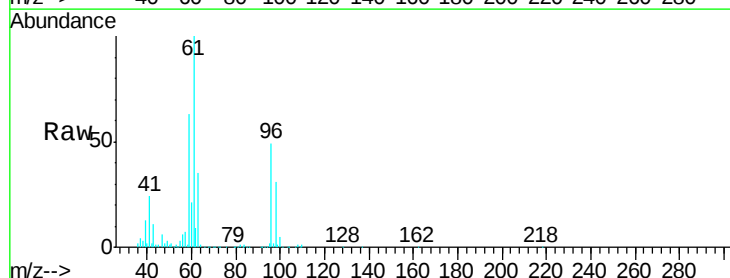
Manual Integrations  
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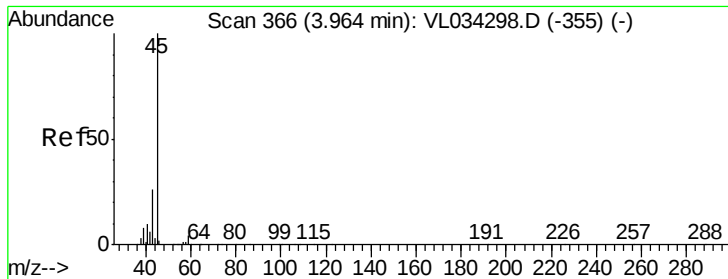
MMDadoda  
10/28/2019 9:43:03 AM



#18  
1,1-Dichloroethene  
Concen: 9.320 ppbv  
RT: 4.29 min Scan# 466  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 96 Resp: 484428  
Ion Ratio Lower Upper  
96 100  
61 204.3 164.5 246.7  
98 63.3 51.7 77.5





#19

Isopropyl Alcohol

Concen: 7.701 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 45 Resp: 680260

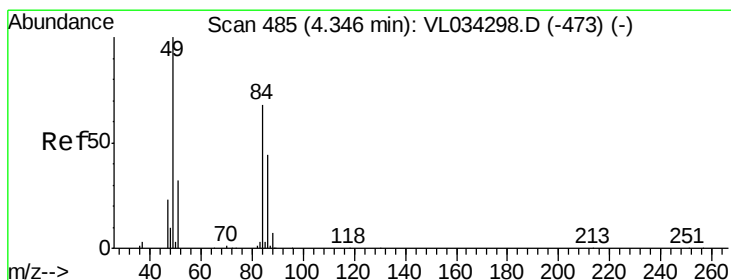
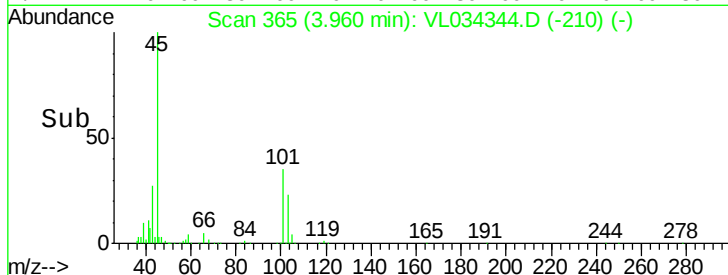
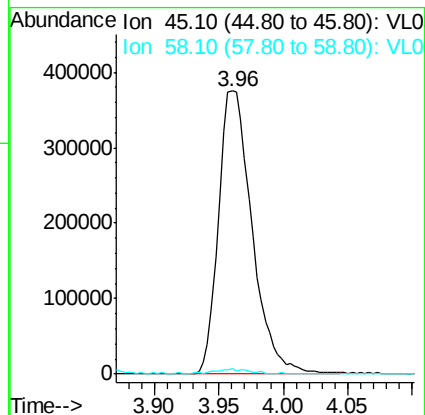
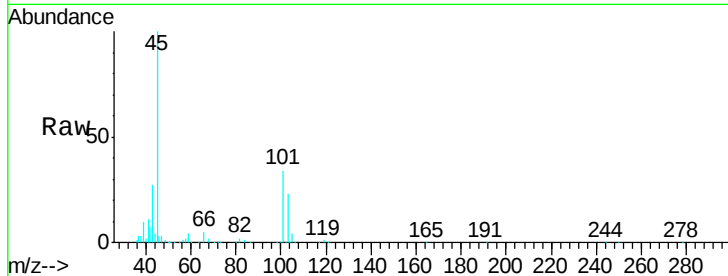
Ion Ratio Lower Upper

45 100

58 2.3 1.4 2.2#

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#20

Methylene Chloride

Concen: 7.614 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Tgt Ion: 84 Resp: 435872

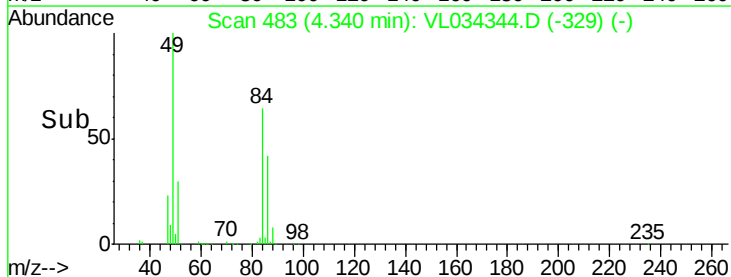
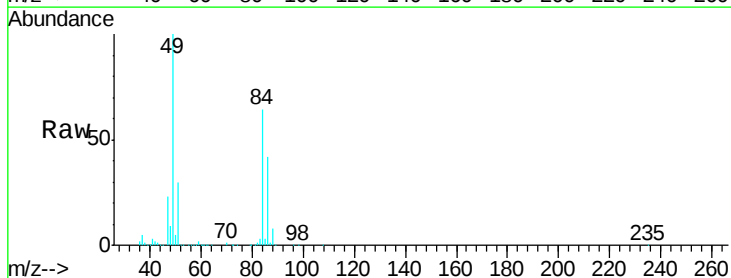
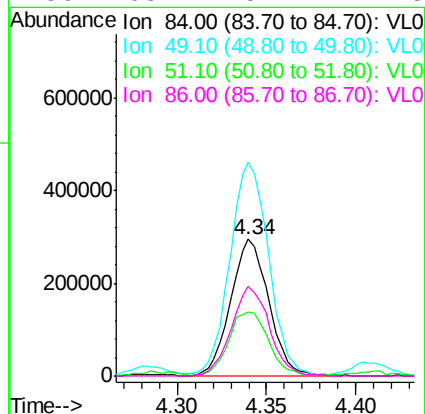
Ion Ratio Lower Upper

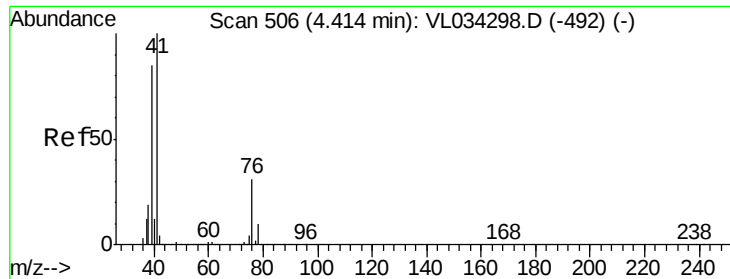
84 100

49 155.4 118.5 177.7

51 45.4 38.8 58.2

86 65.2 51.7 77.5





#21

Allyl Chloride

Concen: 9.573 ppbv

RT: 4.41 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

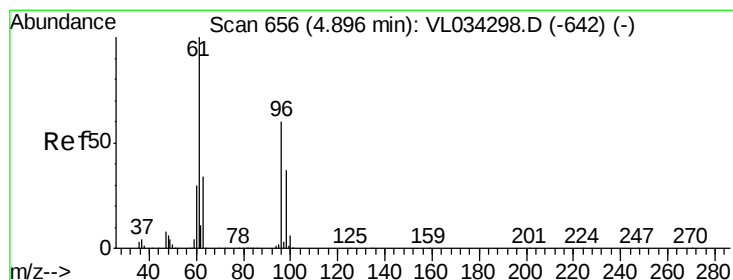
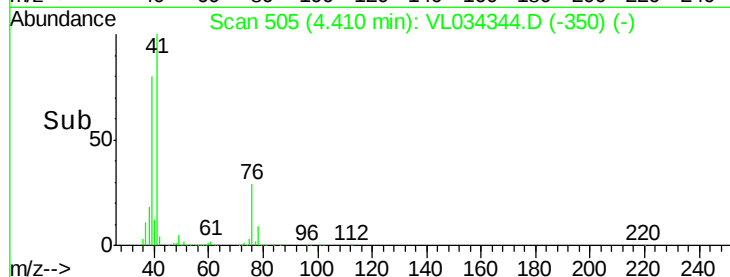
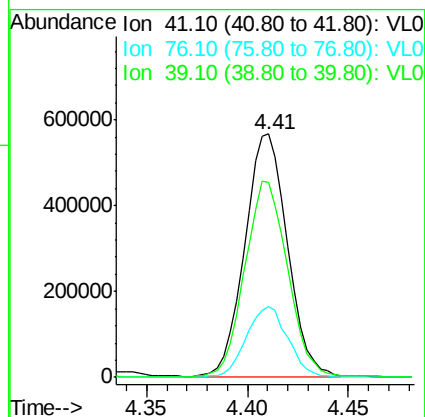
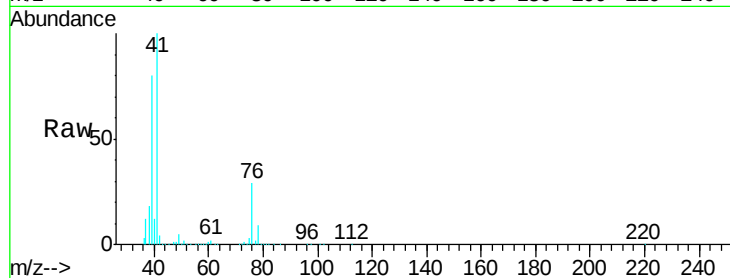
ClientSampleId :

VL1024ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 838016 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 76        | 28.8  | 22.8  | 34.2   |
| 39        | 81.4  | 66.0  | 99.0   |

Manual Integrations  
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#22

trans-1,2-Dichloroethene

Concen: 9.577 ppbv

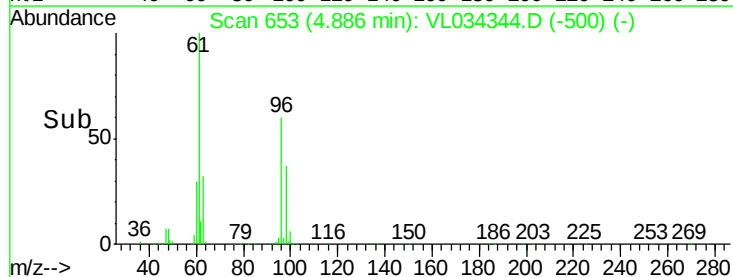
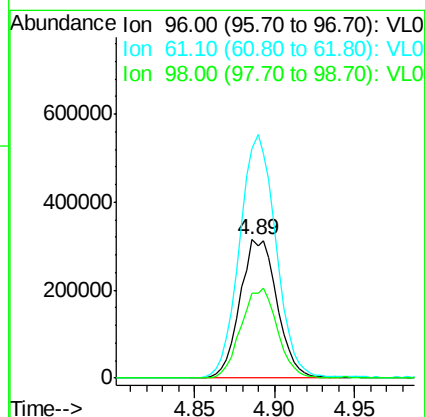
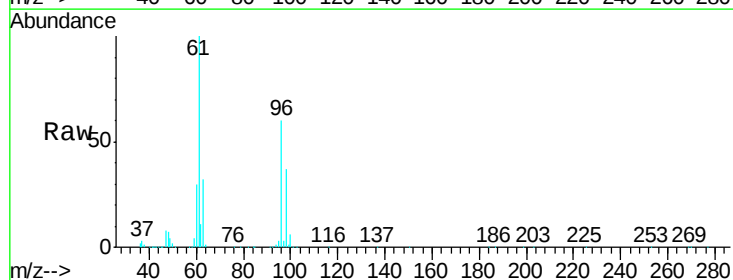
RT: 4.89 min Scan# 653

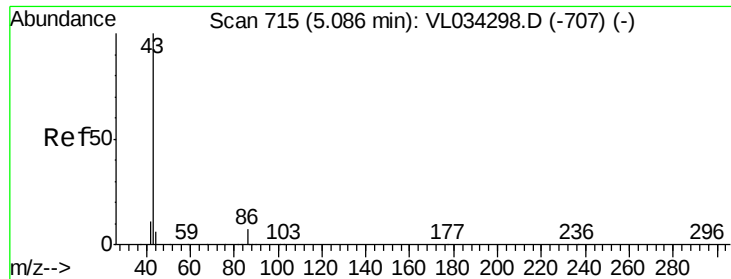
Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 496557 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 166.0 | 133.8 | 200.6  |
| 98        | 61.7  | 49.4  | 74.0   |





#23

Vinyl Acetate

Concen: 9.292 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 43 Resp: 1837553

Ion Ratio Lower Upper

43 100

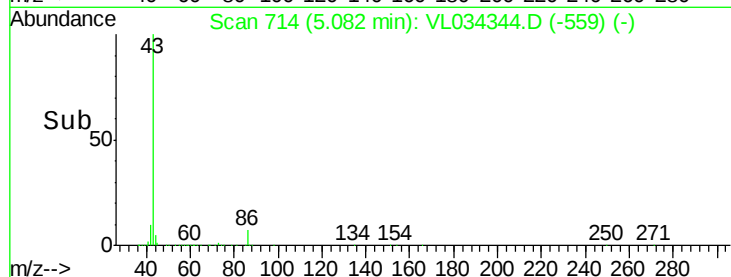
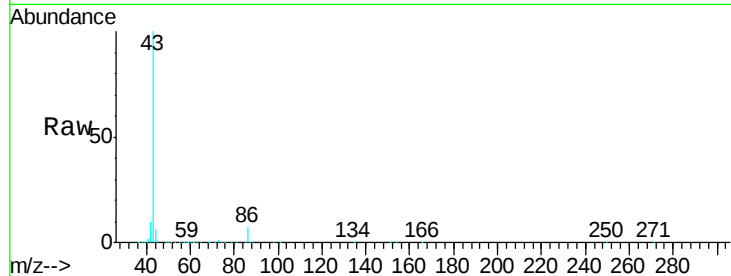
86 7.2 5.0 7.4

42 10.2 8.6 13.0

44 5.7 4.8 7.2

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MMDadoda  
10/28/2019 9:43:03 AM

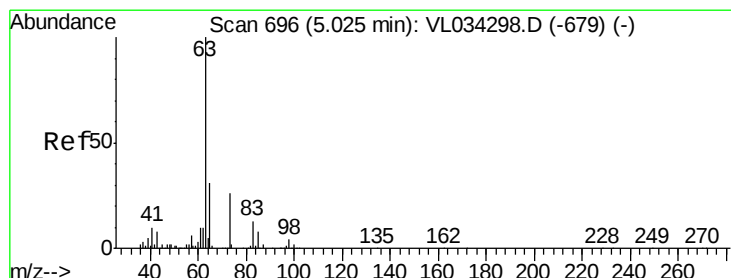
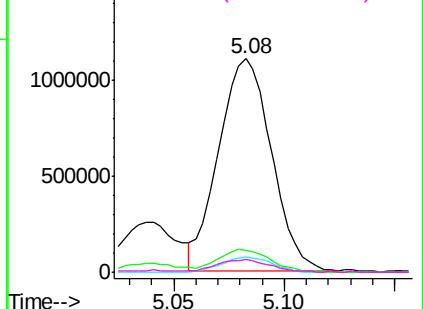


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.959 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

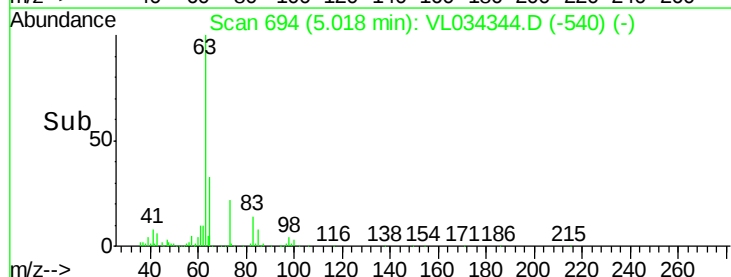
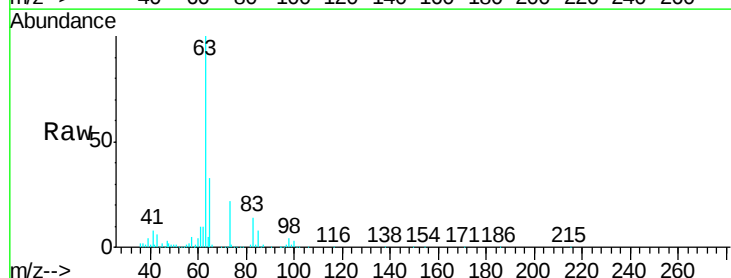
Tgt Ion: 63 Resp: 1314843

Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

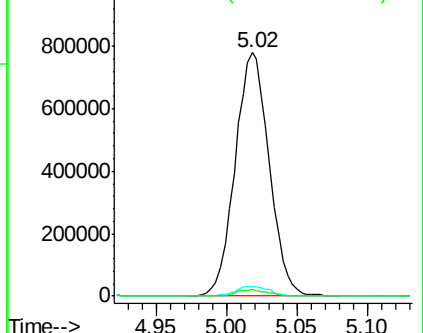
100 2.7 1.1 3.5

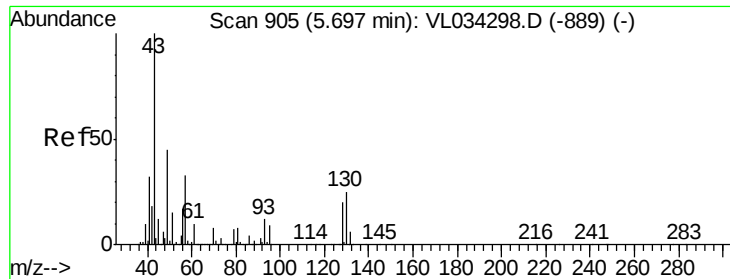


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





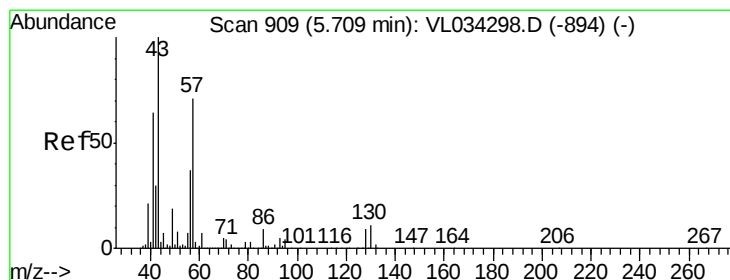
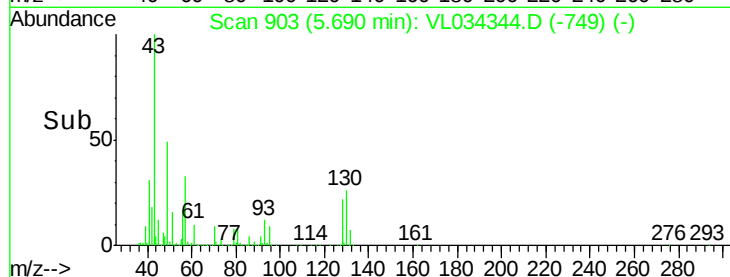
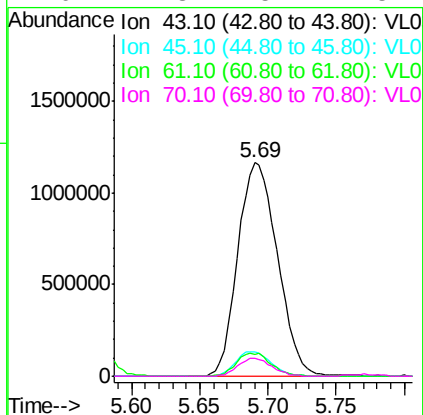
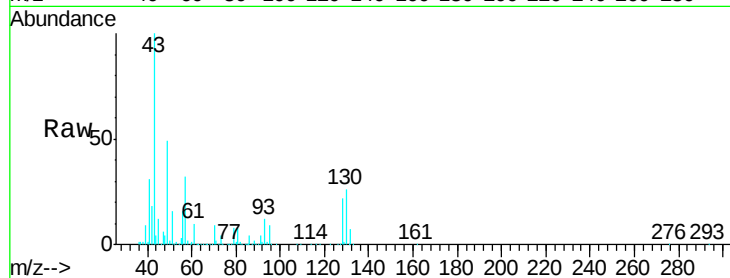
#25  
Ethyl Acetate  
Concen: 8.781 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.6  | 8.3   | 12.5  |
| 61      | 9.6   | 7.7   | 11.5  |
| 70      | 7.3   | 5.4   | 8.2   |

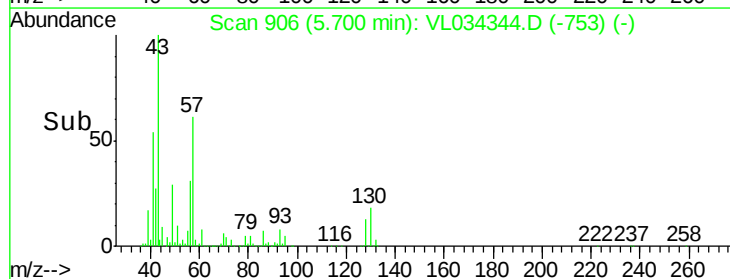
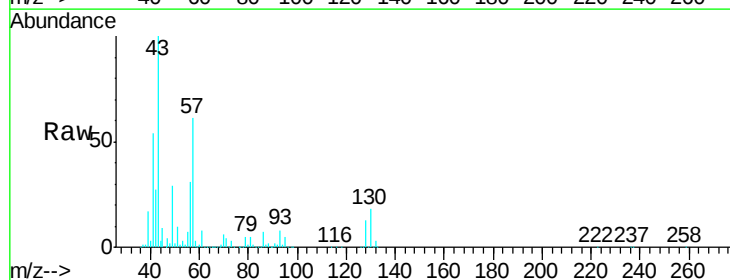
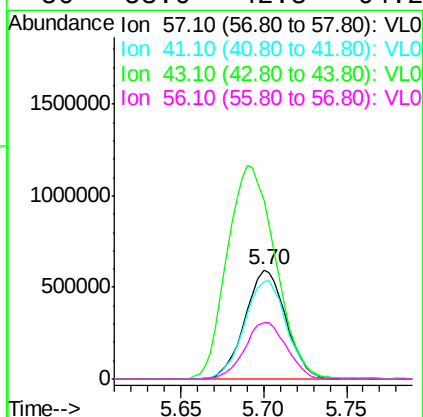
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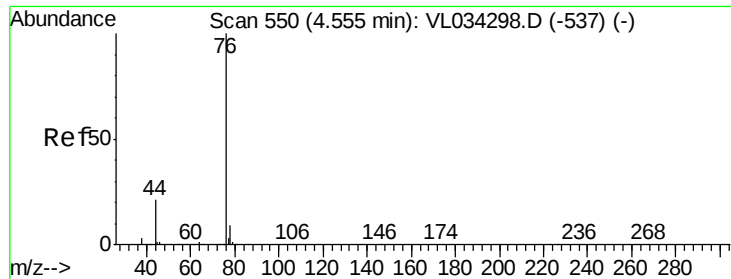
MMDadoda  
10/28/2019 9:43:03 AM



#26  
Hexane  
Concen: 8.956 ppbv  
RT: 5.70 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 94.9  | 76.5  | 114.7 |
| 43      | 230.9 | 188.5 | 282.7 |
| 56      | 53.6  | 42.8  | 64.2  |





#27

Carbon Disulfide

Concen: 10.626 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 76 Resp: 1257061

Ion Ratio Lower Upper

76 100

44 20.6 17.3 25.9

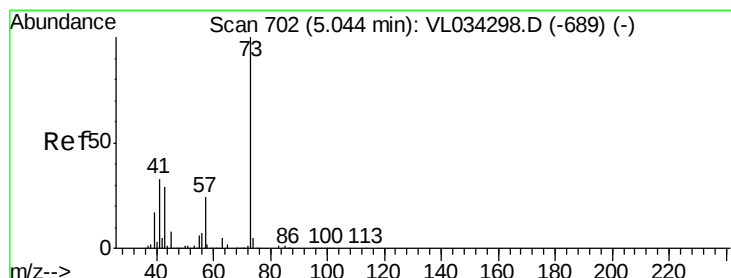
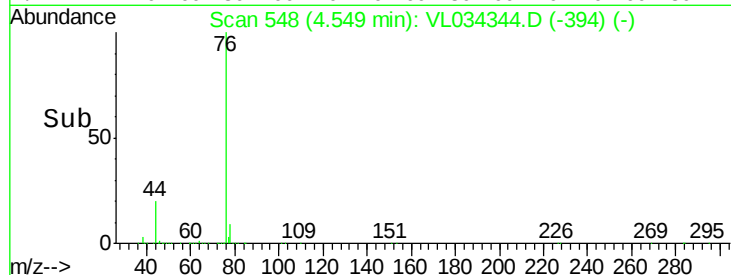
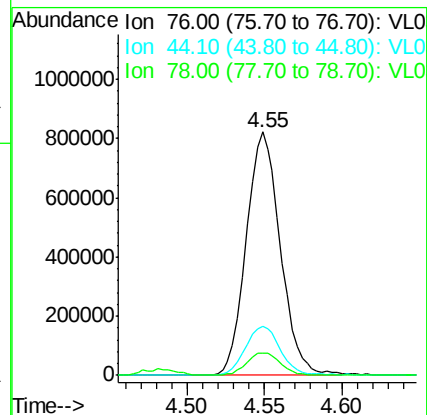
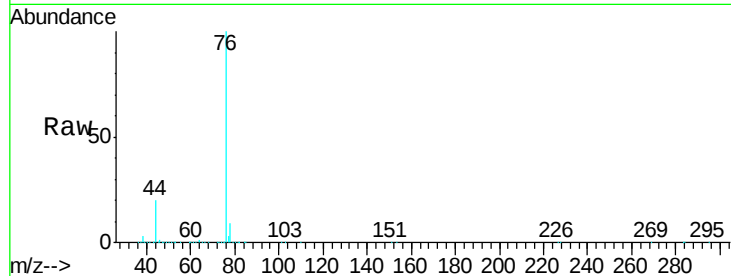
78 9.4 7.8 11.6

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#28

Methyl tert-Butyl Ether

Concen: 9.688 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL034344.D

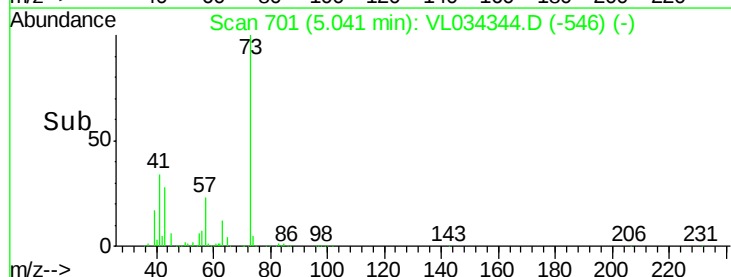
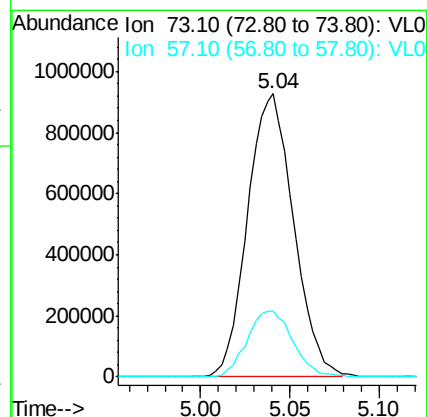
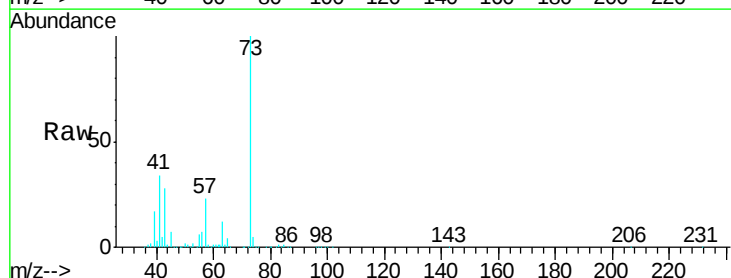
Acq: 24 Oct 2019 13:01

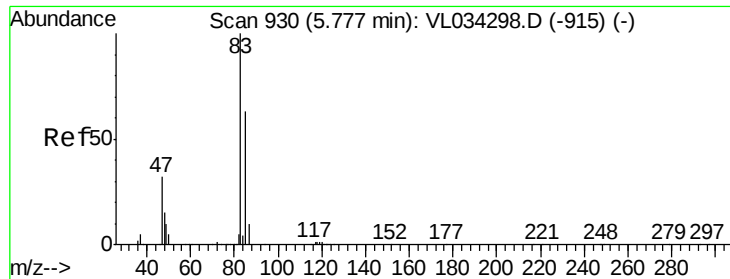
Tgt Ion: 73 Resp: 1670783

Ion Ratio Lower Upper

73 100

57 23.5 19.2 28.8





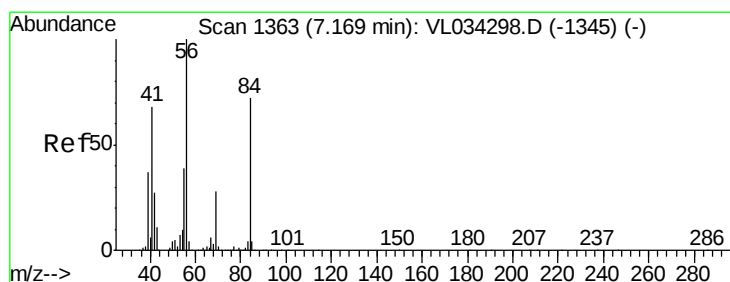
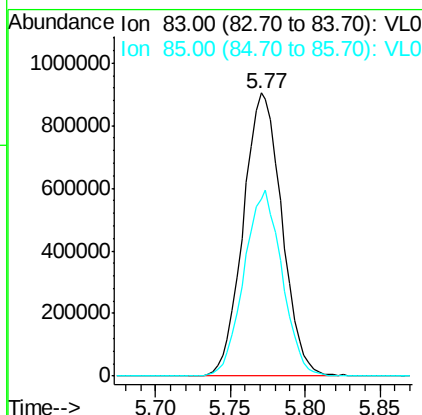
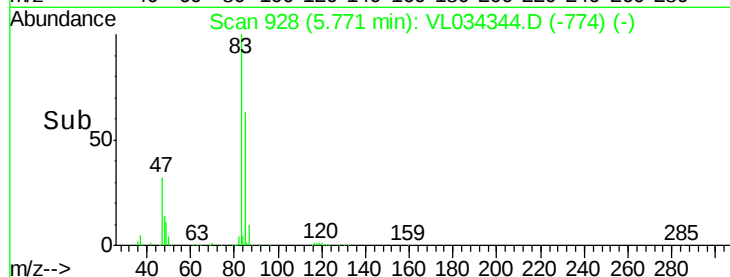
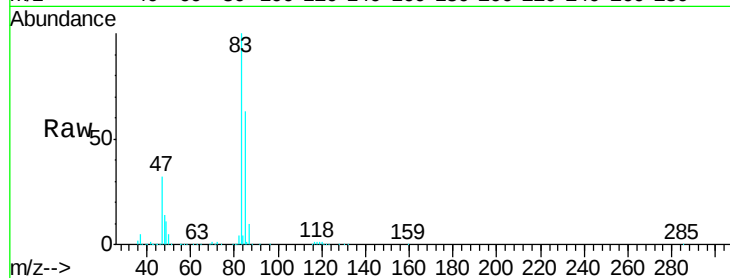
#29  
Chloroform  
Concen: 9.002 ppbv  
RT: 5.77 min Scan# 928  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 83 Resp: 1622635  
Ion Ratio Lower Upper  
83 100  
85 62.5 50.5 75.7

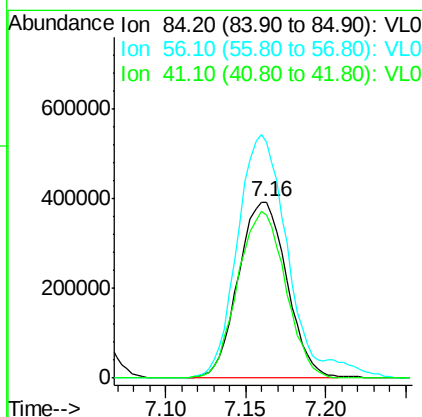
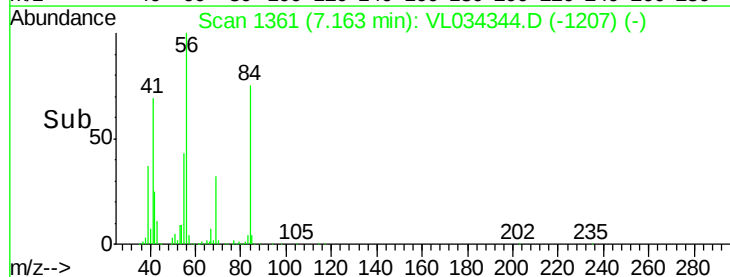
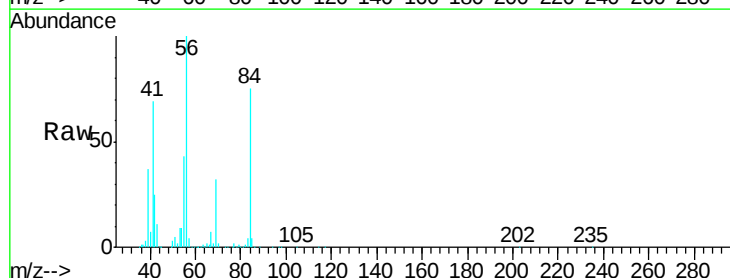
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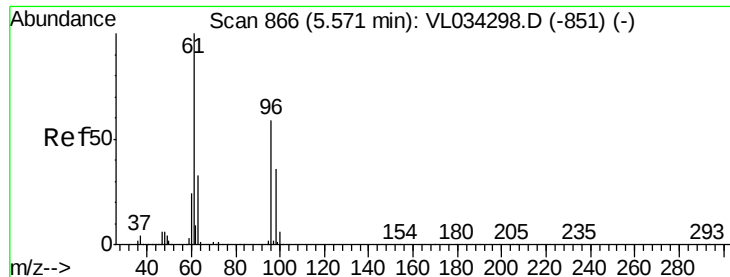
MMDadoda  
10/28/2019 9:43:03 AM



#30  
Cyclohexane  
Concen: 9.722 ppbv  
RT: 7.16 min Scan# 1361  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 84 Resp: 814746  
Ion Ratio Lower Upper  
84 100  
56 145.0 119.4 179.0  
41 93.0 78.7 118.1





#31

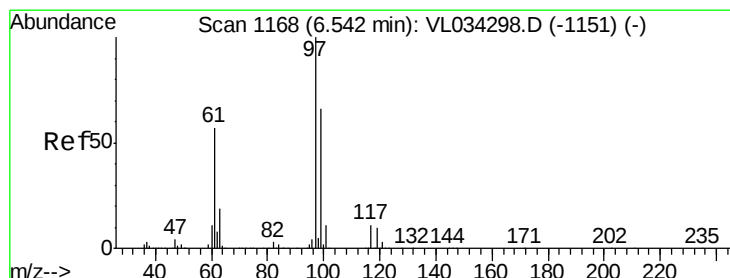
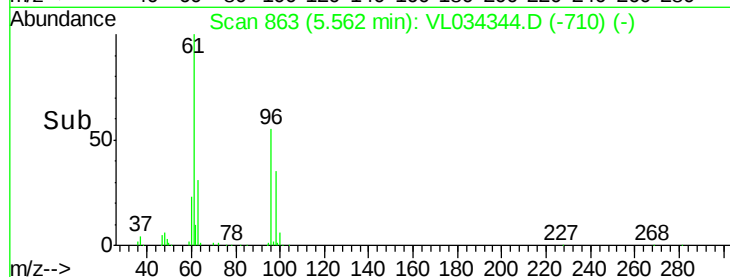
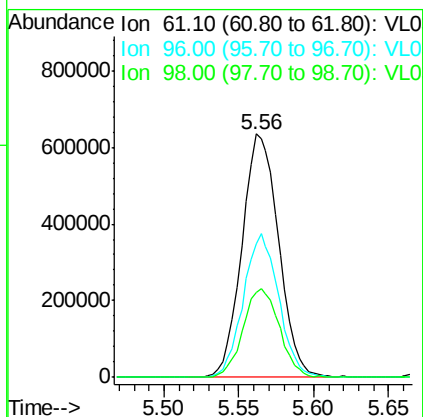
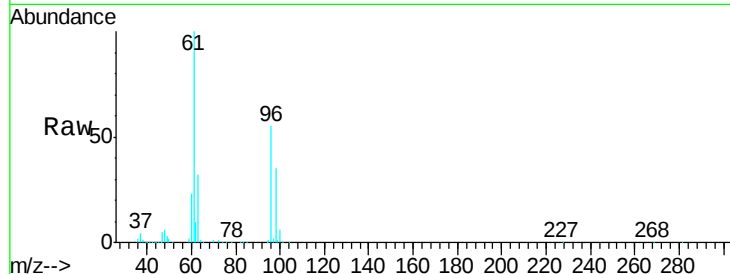
cis-1,2-Dichloroethene  
 Concen: 9.379 ppbv  
 RT: 5.56 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 55.1  | 47.5  | 71.3  |
| 98      | 34.6  | 28.8  | 43.2  |

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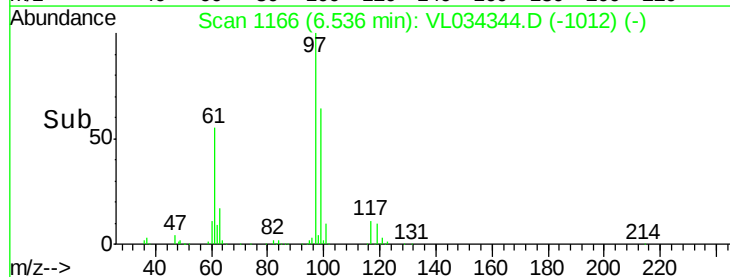
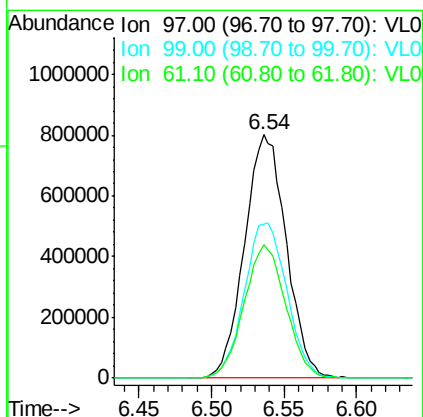
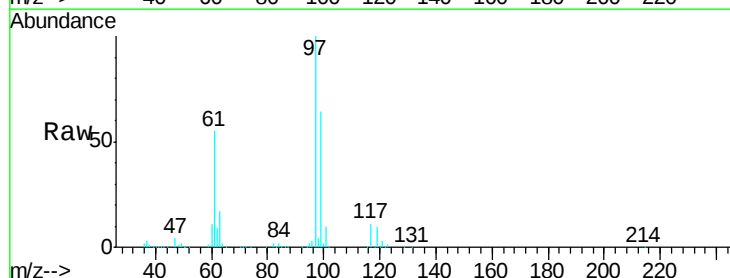
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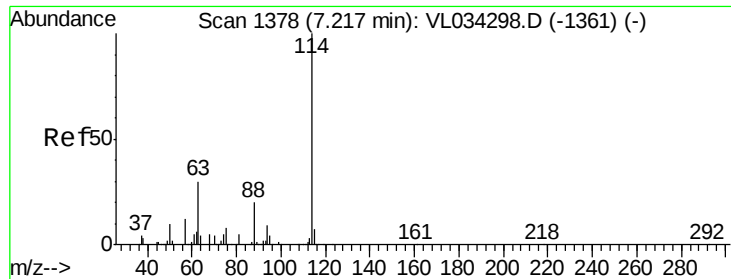


#32

1,1,1-Trichloroethane  
 Concen: 9.160 ppbv  
 RT: 6.54 min Scan# 1166  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.9  | 52.6  | 78.8  |
| 61      | 54.8  | 44.5  | 66.7  |





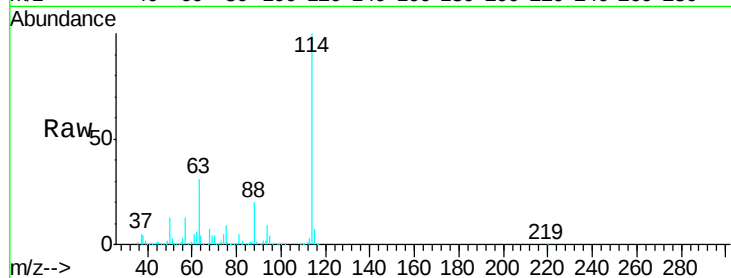
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.21 min Scan# 1375  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

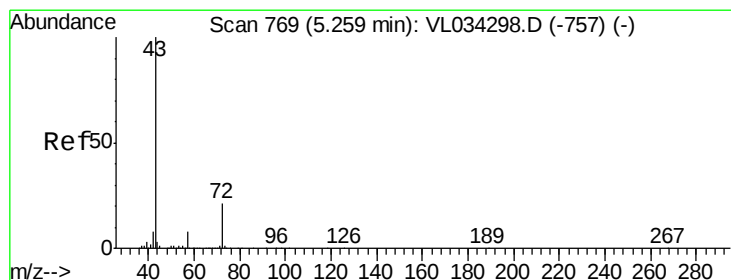
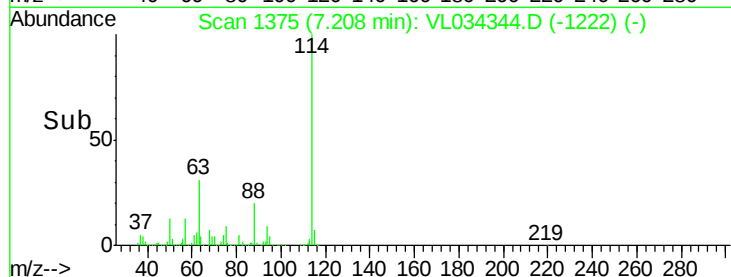
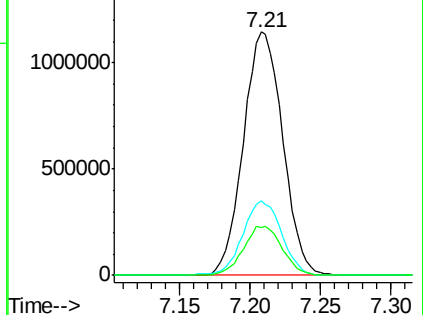
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 30.5  | 25.2  | 37.8  |
| 88      | 19.9  | 16.0  | 24.0  |

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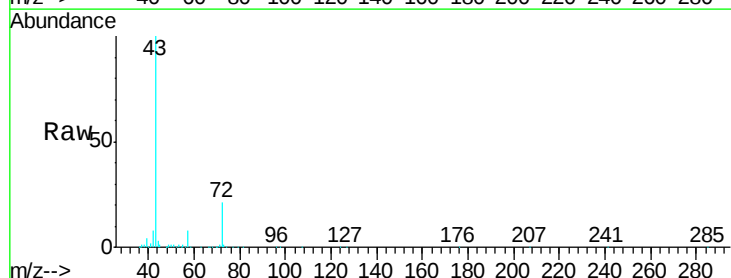


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

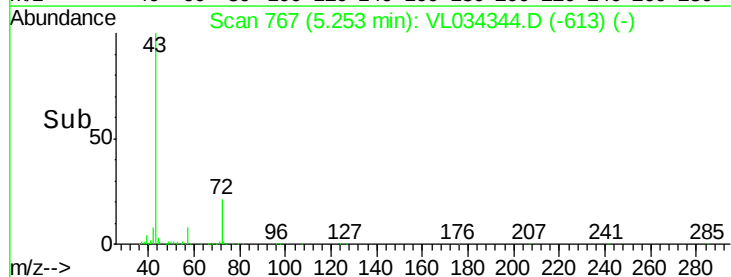
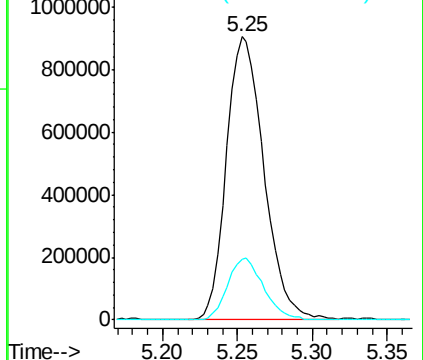


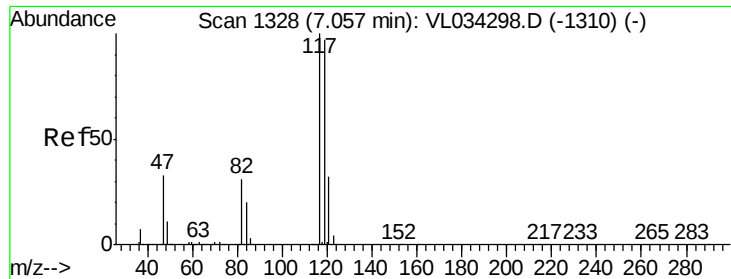
#34  
 2-Butanone  
 Concen: 8.634 ppbv  
 RT: 5.25 min Scan# 767  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 21.0  | 16.3  | 24.5  |



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.690 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 117 Resp: 1692926

Ion Ratio Lower Upper

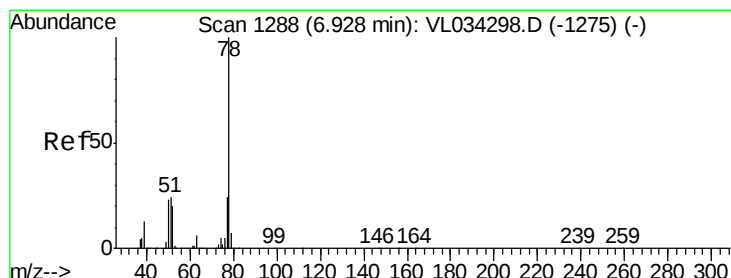
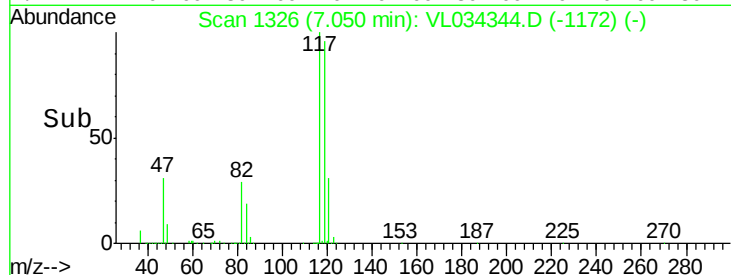
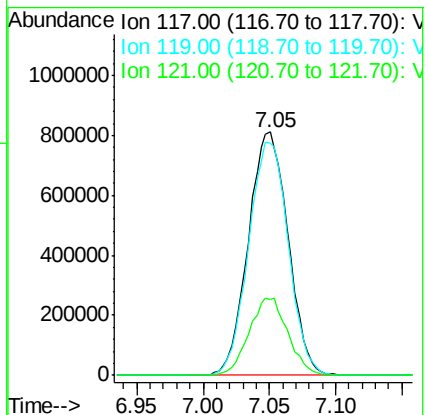
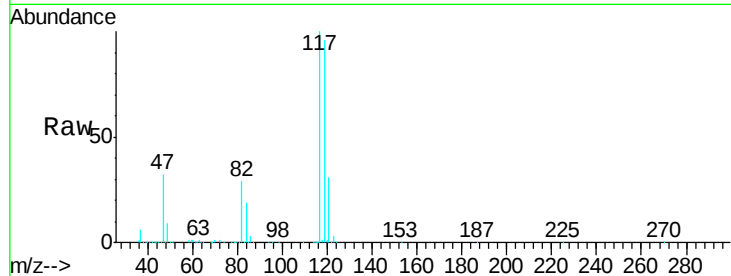
117 100

119 95.6 77.3 115.9

121 31.4 25.5 38.3

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#36

Benzene

Concen: 8.973 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

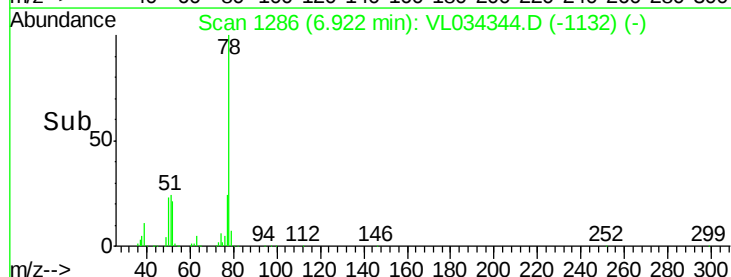
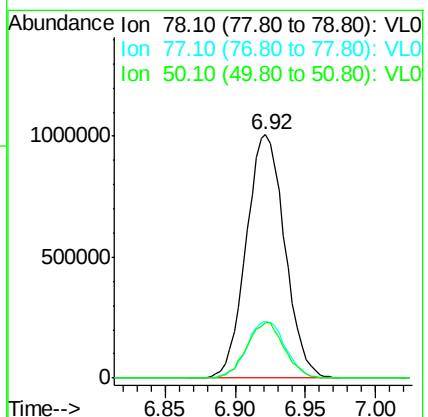
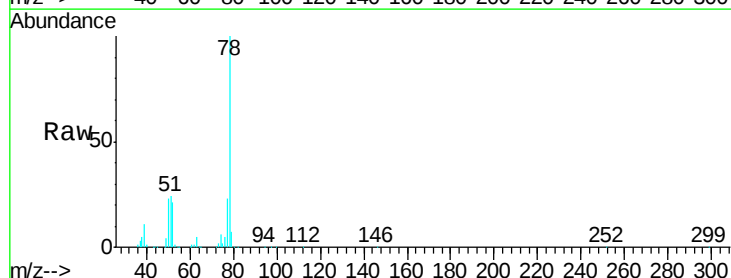
Tgt Ion: 78 Resp: 1925468

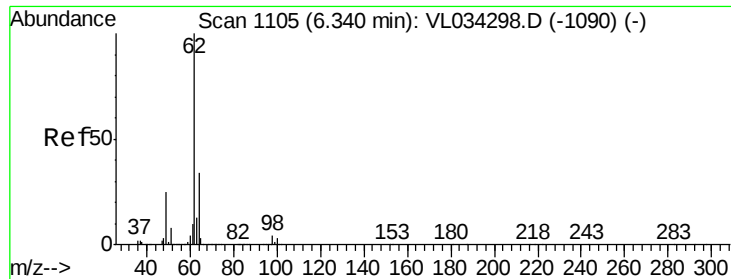
Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.4

50 22.9 18.6 27.8





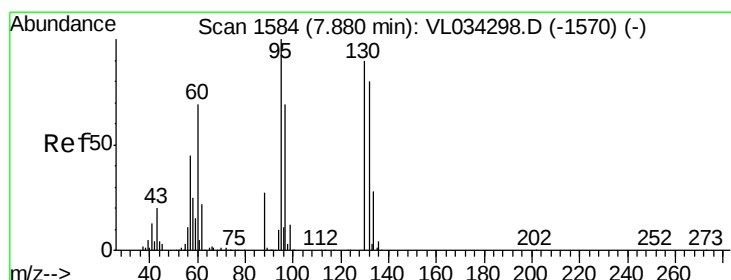
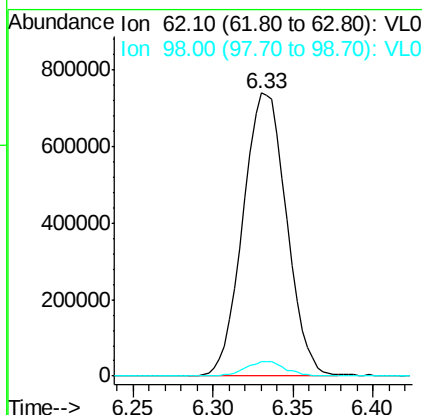
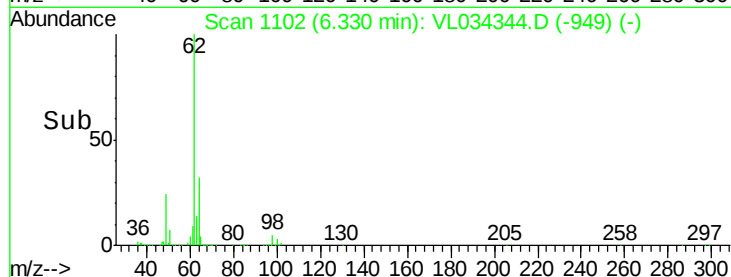
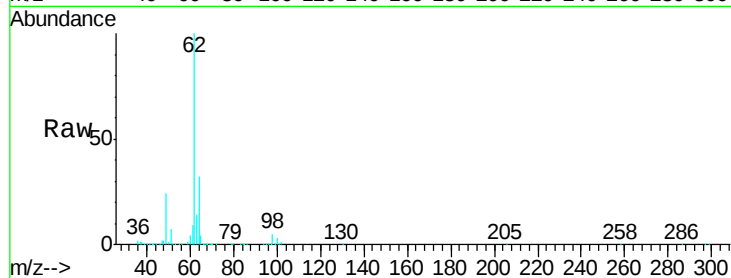
#37  
 1,2-Dichloroethane  
 Concen: 8.623 ppbv  
 RT: 6.33 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion: 62 Resp: 1379102  
 Ion Ratio Lower Upper  
 62 100  
 98 4.8 3.8 5.6

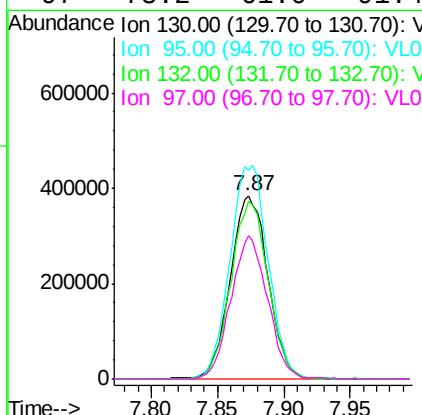
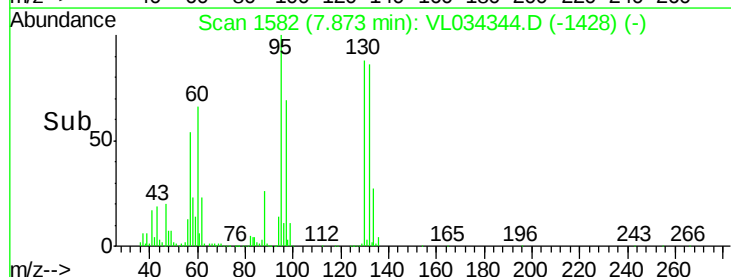
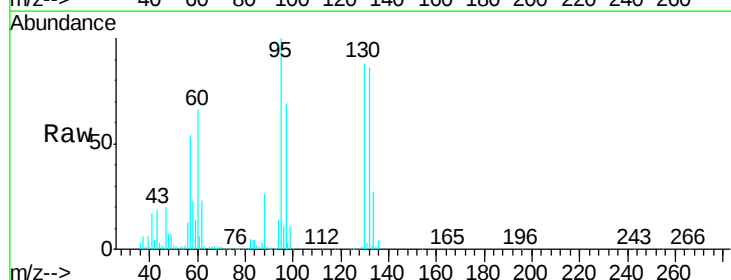
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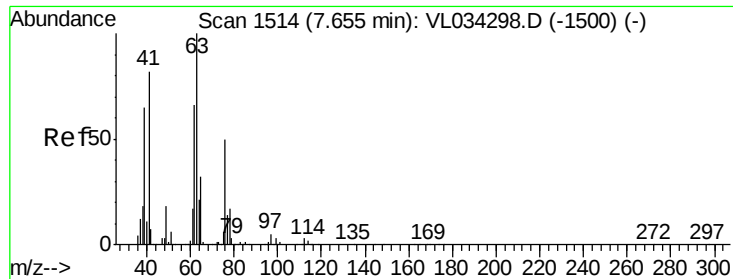
MMDadoda  
 10/28/2019 9:43:03 AM



#38  
 Trichloroethene  
 Concen: 8.806 ppbv  
 RT: 7.87 min Scan# 1582  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 130 Resp: 758282  
 Ion Ratio Lower Upper  
 130 100  
 95 113.3 88.6 132.8  
 132 97.1 71.2 106.8  
 97 78.2 61.0 91.4





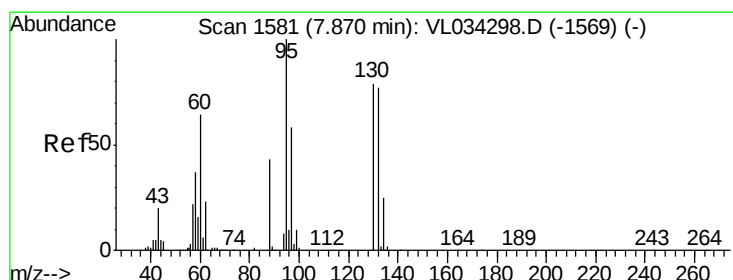
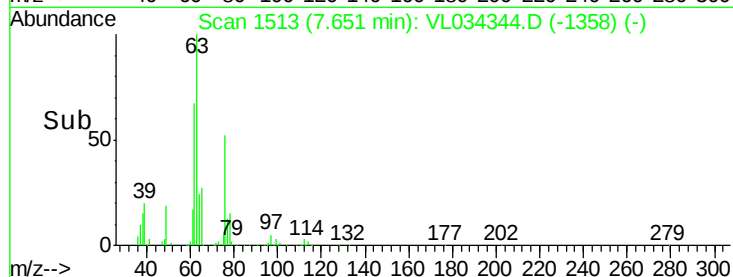
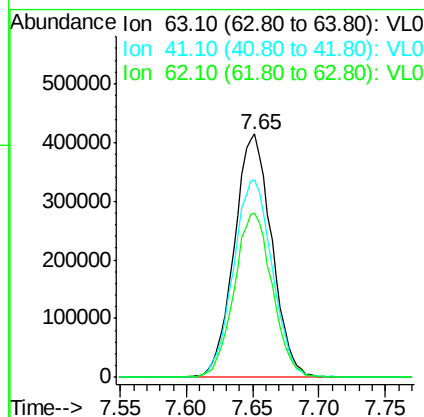
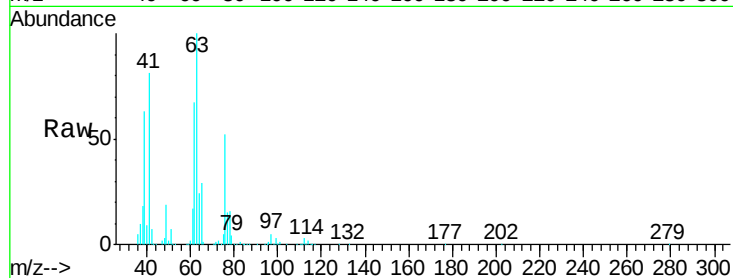
#39  
 1,2-Dichloropropane  
 Concen: 8.784 ppbv  
 RT: 7.65 min Scan# 1513  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 80.7  | 65.6  | 98.4  |
| 62      | 67.2  | 53.0  | 79.6  |

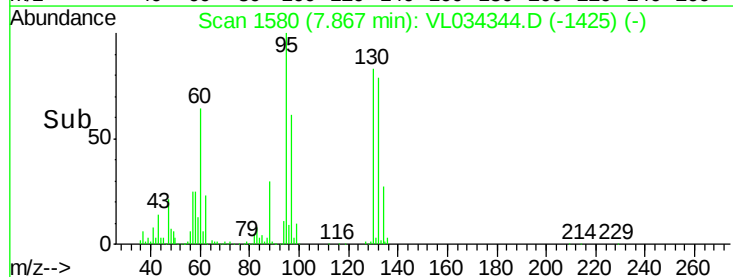
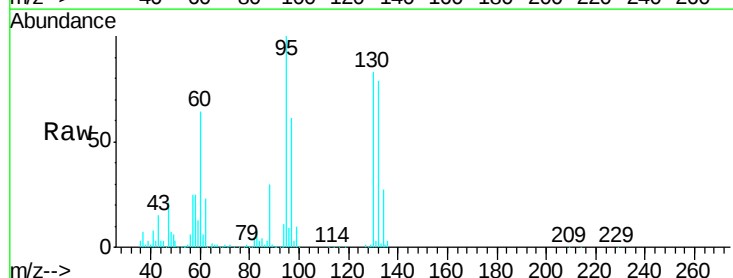
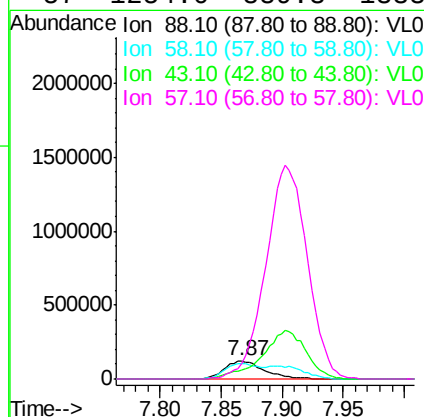
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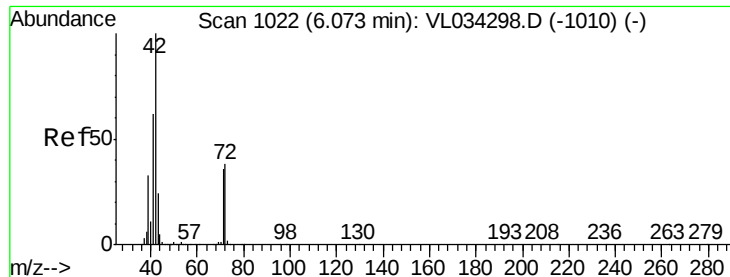
MMDadoda  
 10/28/2019 9:43:03 AM



#40  
 1,4-Dioxane  
 Concen: 8.469 ppbv  
 RT: 7.87 min Scan# 1580  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 88      | 100    |       |        |
| 58      | 140.9  | 110.3 | 165.5  |
| 43      | 302.1  | 228.1 | 342.1  |
| 57      | 1254.0 | 889.3 | 1333.9 |





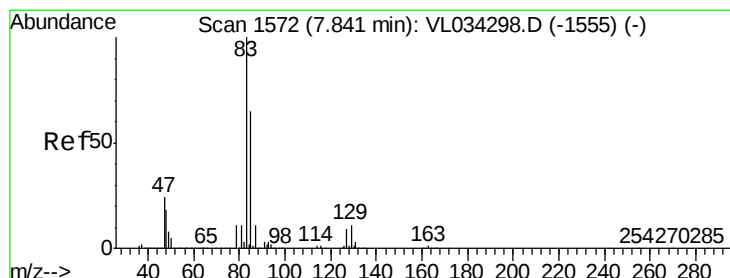
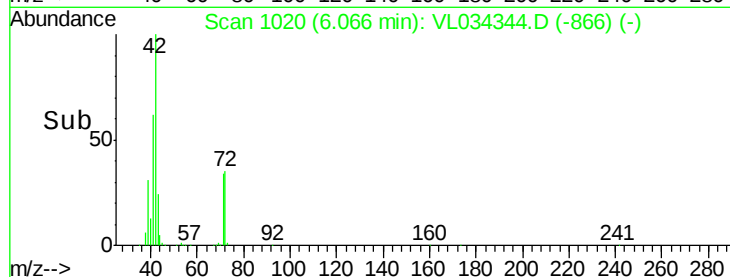
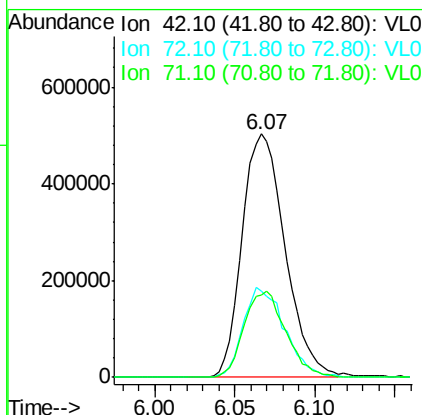
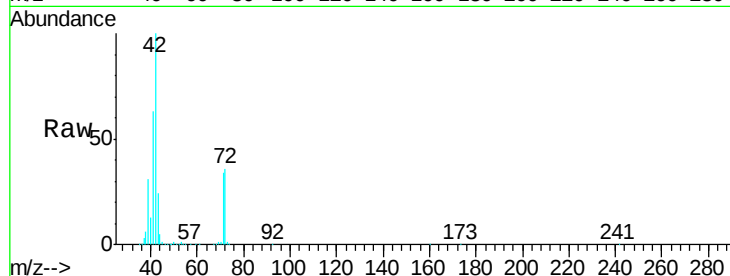
#41  
Tetrahydrofuran  
Concen: 9.099 ppbv  
RT: 6.07 min Scan# 1020  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 36.1  | 28.0  | 42.0  |
| 71      | 34.6  | 27.3  | 40.9  |

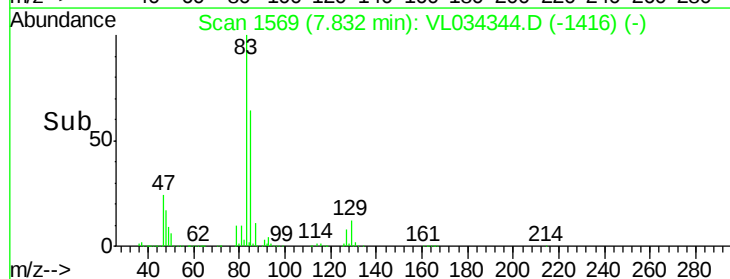
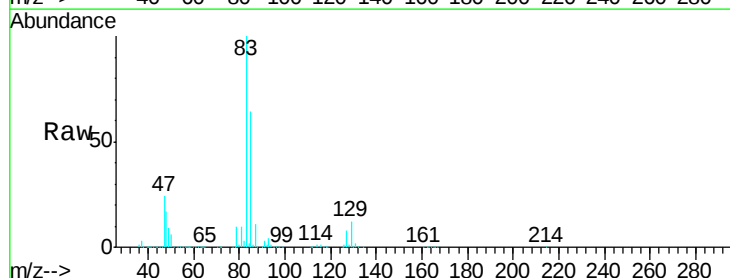
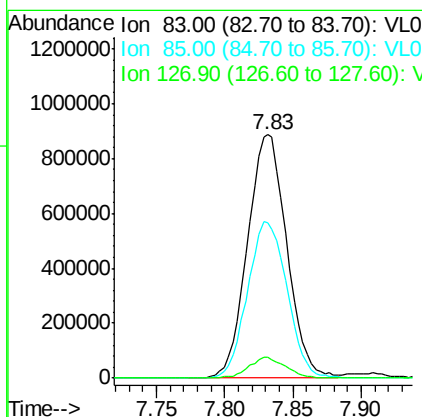
Manual Integrations  
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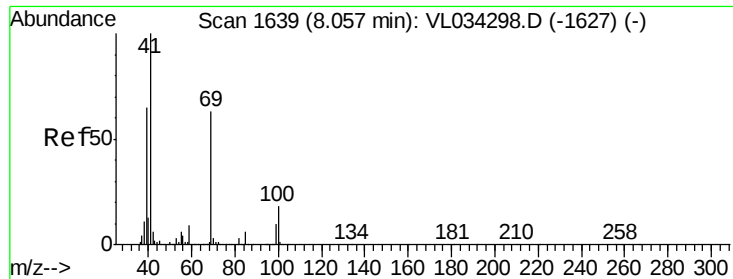
MMDadoda  
10/28/2019 9:43:03 AM



#42  
Bromodichloromethane  
Concen: 9.053 ppbv  
RT: 7.83 min Scan# 1569  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.7  | 51.8  | 77.6  |
| 127     | 8.4   | 7.0   | 10.6  |





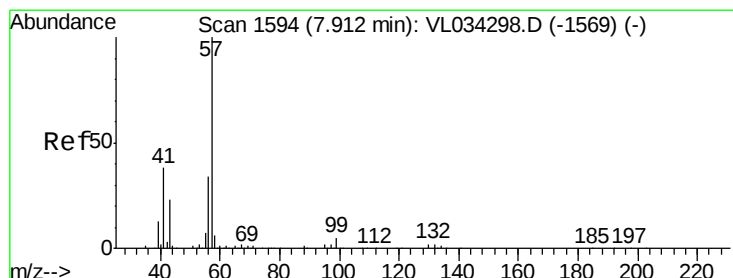
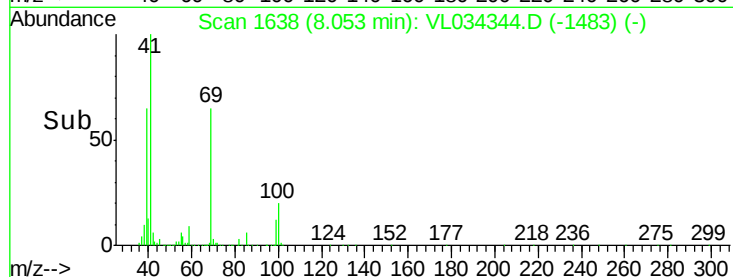
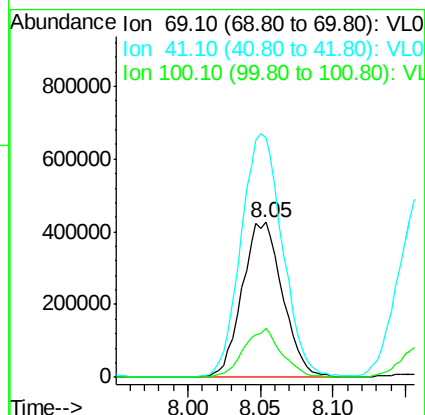
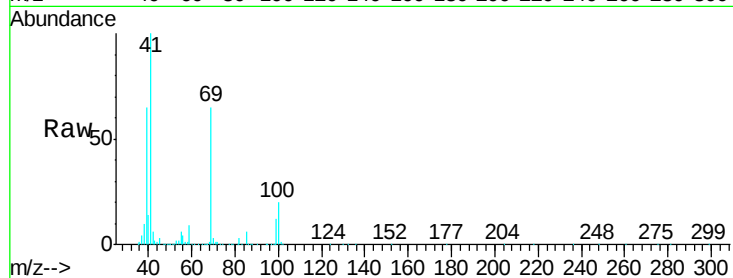
#43  
Methyl Methacrylate  
Concen: 9.339 ppbv  
RT: 8.05 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 160.9 | 132.1 | 198.1 |
| 100     | 29.5  | 23.2  | 34.8  |

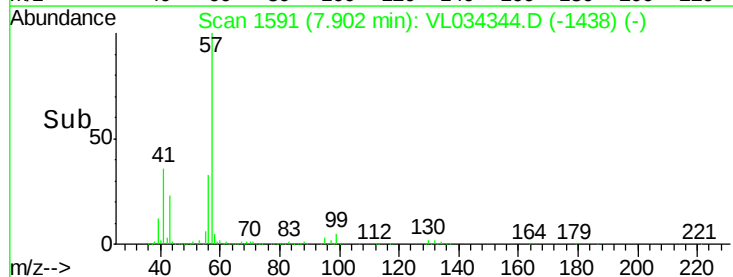
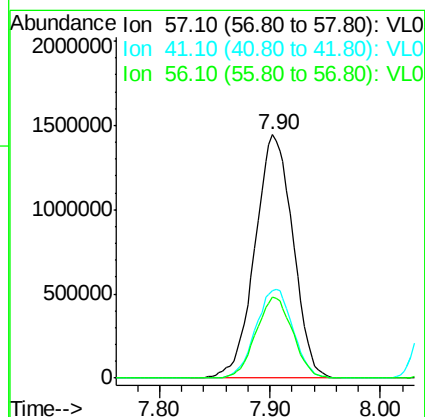
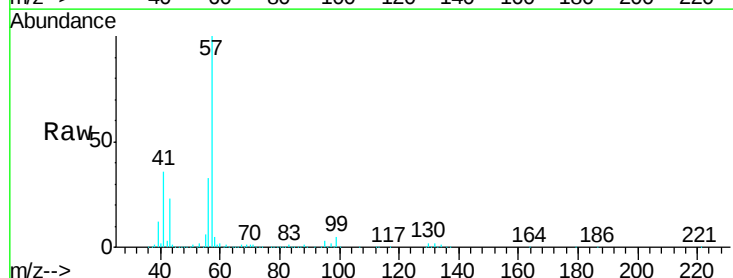
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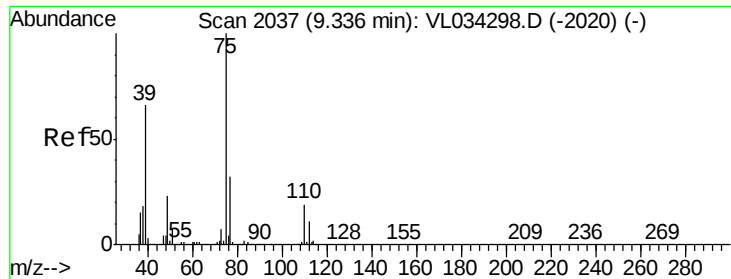
MMDadoda  
10/28/2019 9:43:03 AM



#44  
2,2,4-Trimethylpentane  
Concen: 8.662 ppbv  
RT: 7.90 min Scan# 1591  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 35.9  | 29.3  | 43.9  |
| 56      | 32.2  | 25.3  | 37.9  |





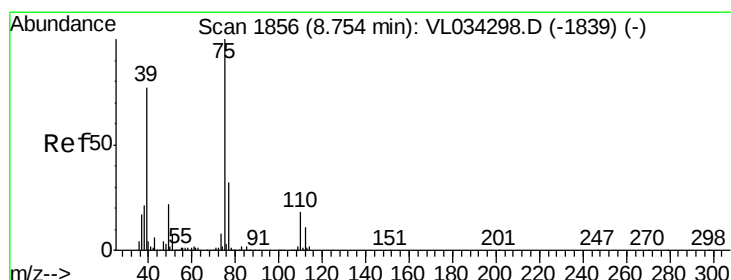
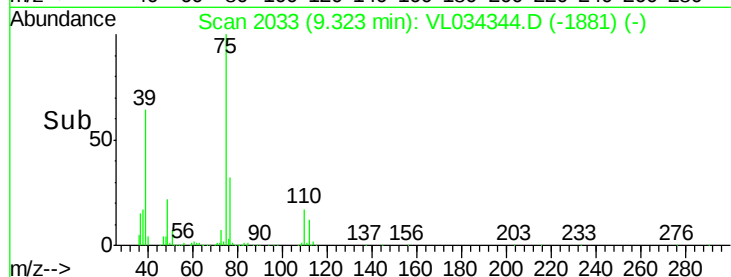
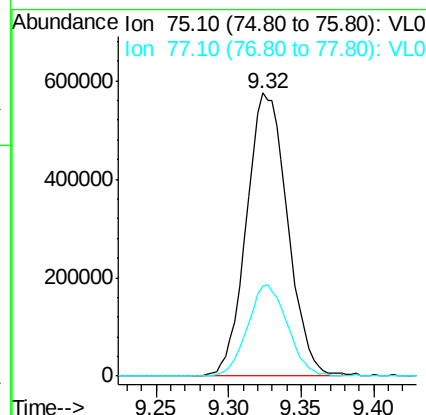
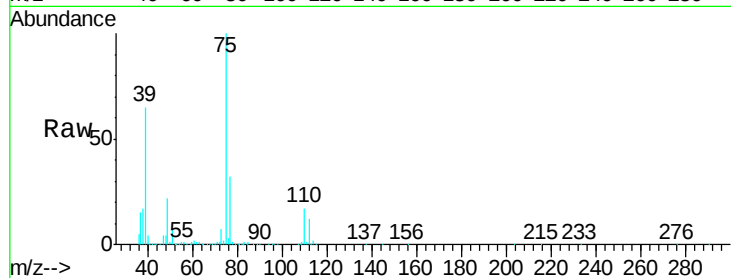
#45  
t-1,3-Dichloropropene  
Concen: 10.505 ppbv  
RT: 9.32 min Scan# 2033  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 75 Resp: 1135971  
Ion Ratio Lower Upper  
75 100  
77 31.8 25.6 38.4

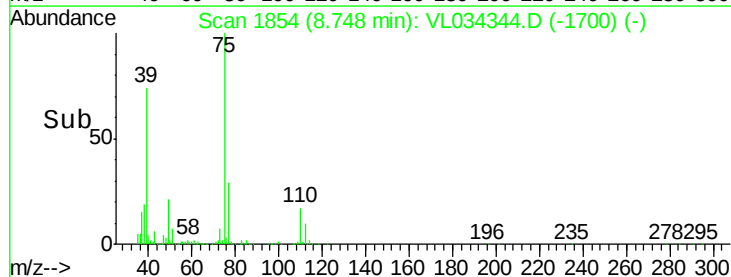
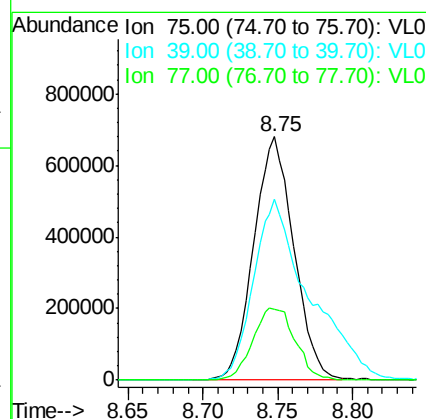
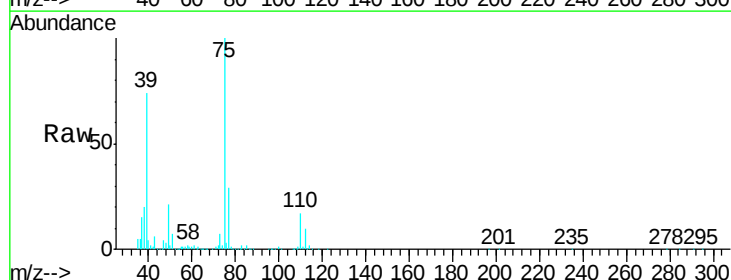
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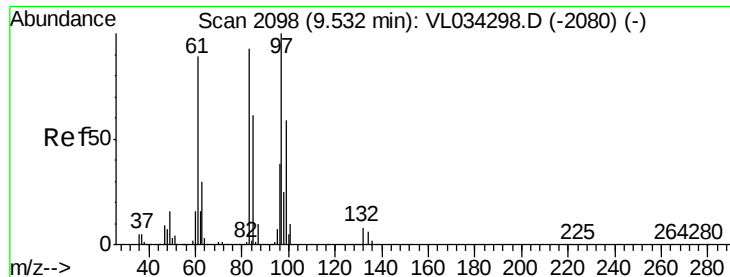
MMDadoda  
10/28/2019 9:43:03 AM



#46  
cis-1,3-Dichloropropene  
Concen: 10.201 ppbv  
RT: 8.75 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 75 Resp: 1267252  
Ion Ratio Lower Upper  
75 100  
39 74.2 61.2 91.8  
77 29.2 25.9 38.9





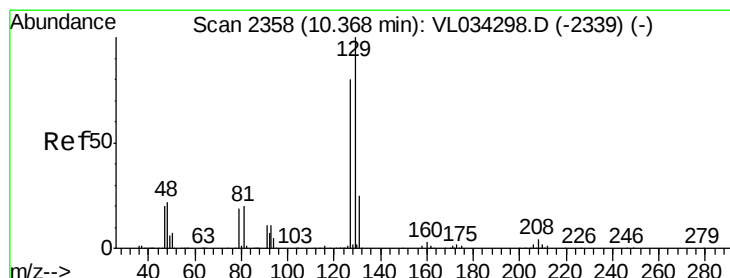
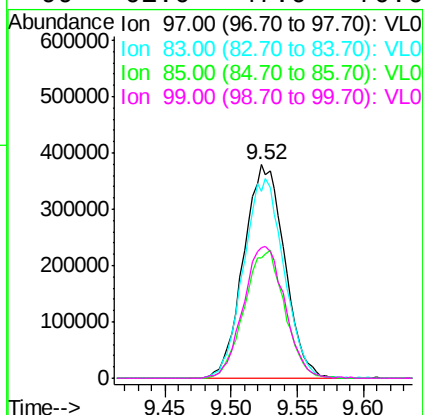
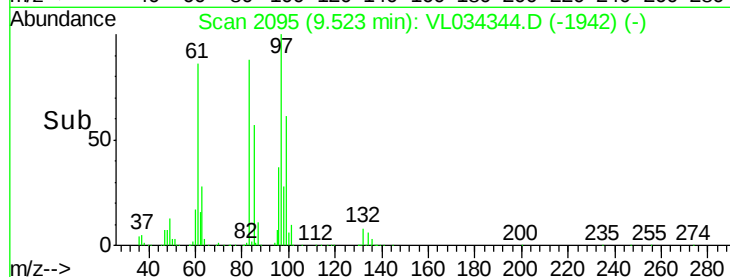
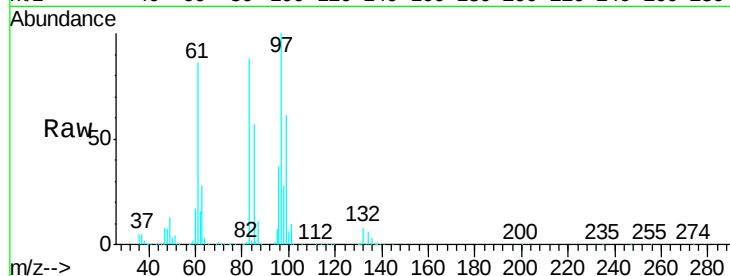
#47  
 1,1,2-Trichloroethane  
 Concen: 8.721 ppbv  
 RT: 9.52 min Scan# 2095  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 87.6  | 74.2  | 111.2 |
| 85      | 56.6  | 48.6  | 73.0  |
| 99      | 61.0  | 47.0  | 70.6  |

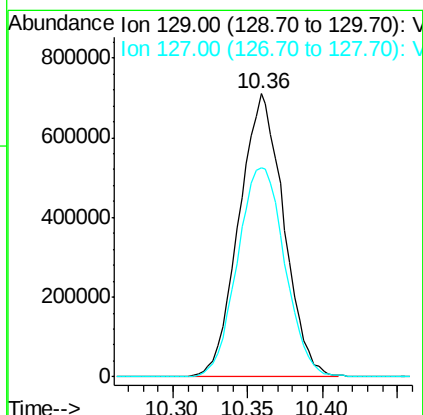
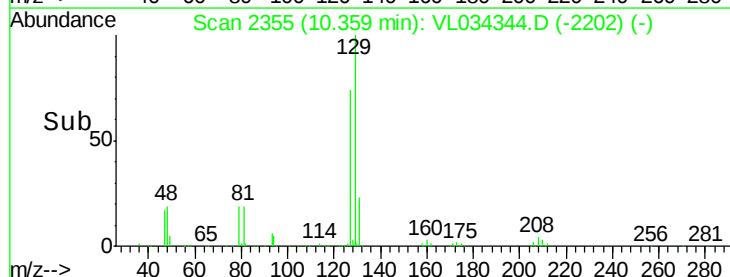
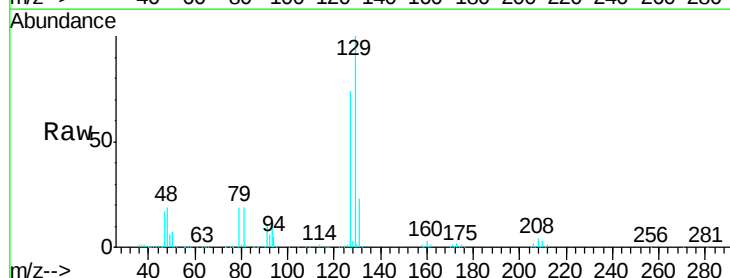
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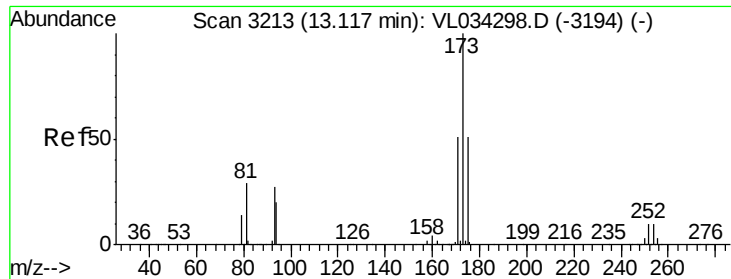
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#48  
 Dibromochloromethane  
 Concen: 9.580 ppbv  
 RT: 10.36 min Scan# 2355  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.7  | 39.7  | 119.1 |





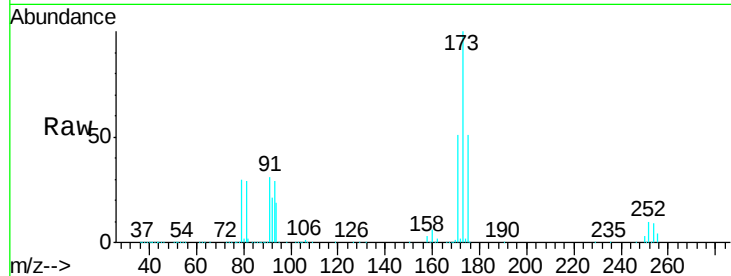
#49  
Bromoform  
Concen: 9.712 ppbv  
RT: 13.10 min Scan# 3209  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

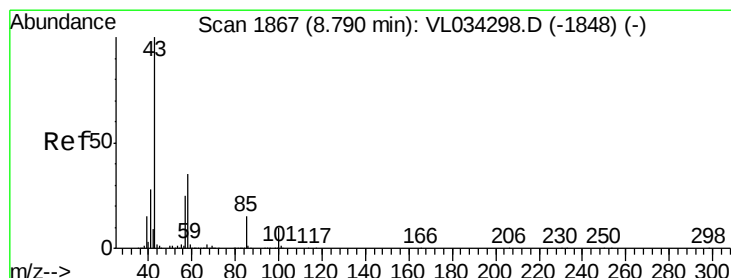
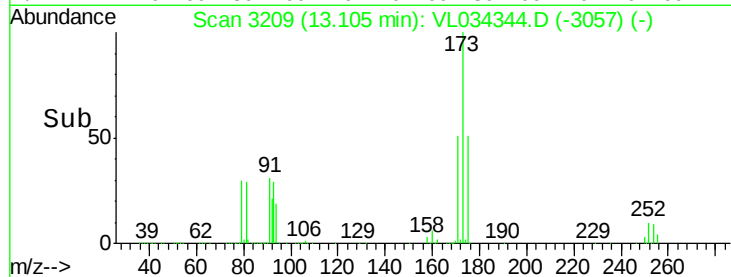
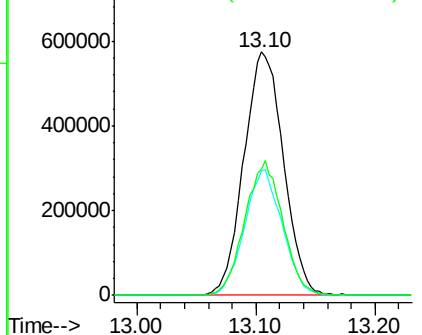
Tgt Ion:173 Resp: 1321327  
Ion Ratio Lower Upper  
173 100  
175 49.3 39.8 59.6  
171 52.9 41.8 62.6

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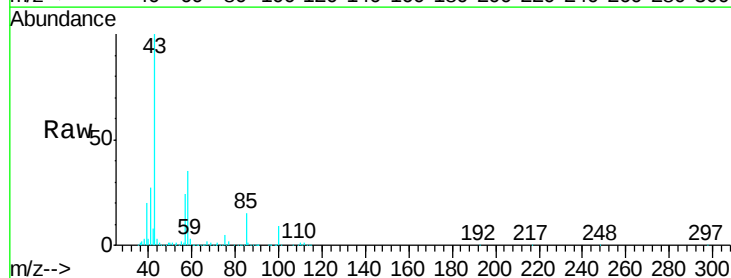


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 170.90 (170.60 to 171.60): V

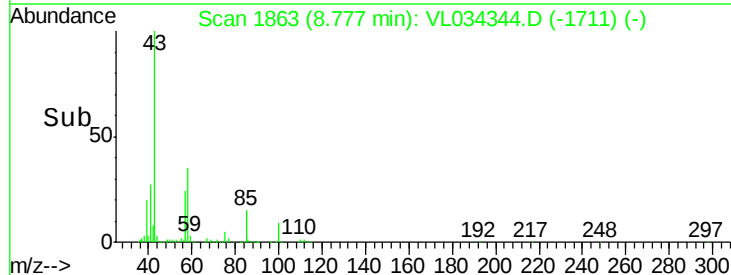
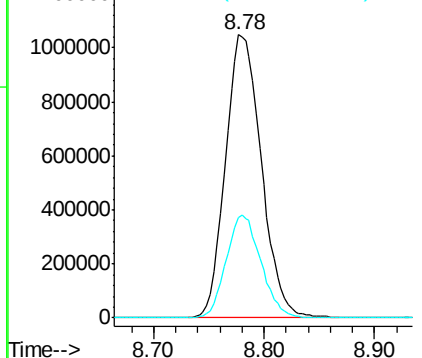


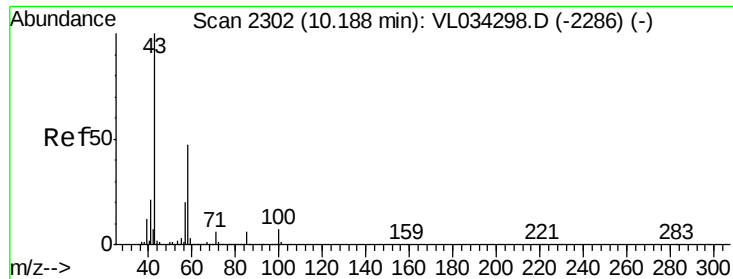
#50  
4-Methyl-2-Pentanone  
Concen: 8.986 ppbv  
RT: 8.78 min Scan# 1863  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 43 Resp: 2351795  
Ion Ratio Lower Upper  
43 100  
58 35.4 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.365 ppbv

RT: 10.18 min Scan# 2299

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

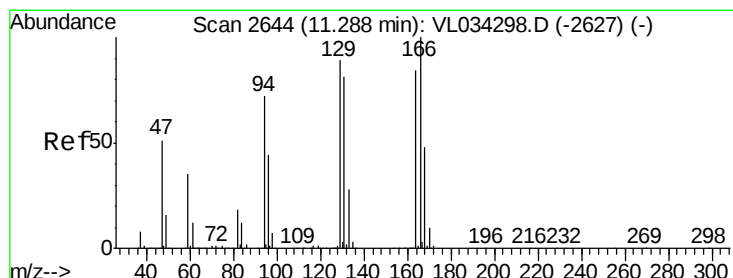
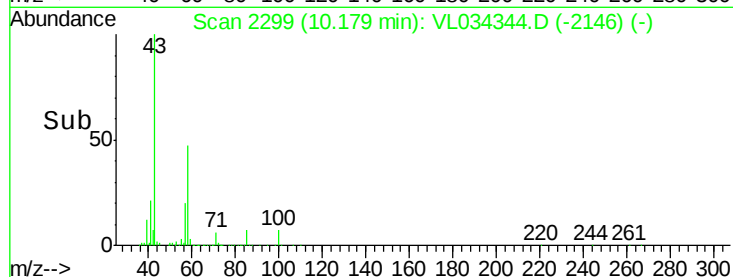
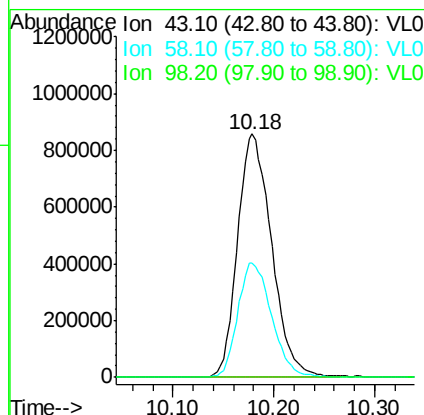
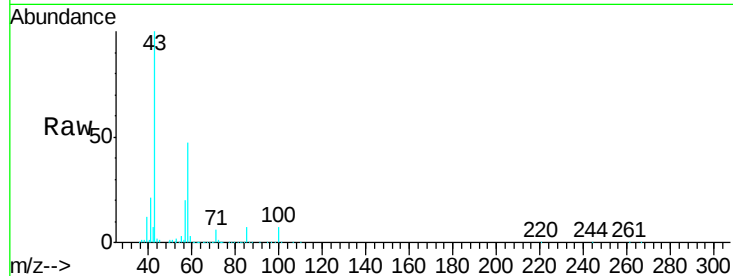
VL1024ABS01

Tgt Ion: 43 Resp: 2009041

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 46.6  | 37.0  | 55.6  |
| 98  | 0.2   | 0.2   | 0.2   |

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#52

Tetrachloroethene

Concen: 8.644 ppbv

RT: 11.28 min Scan# 2642

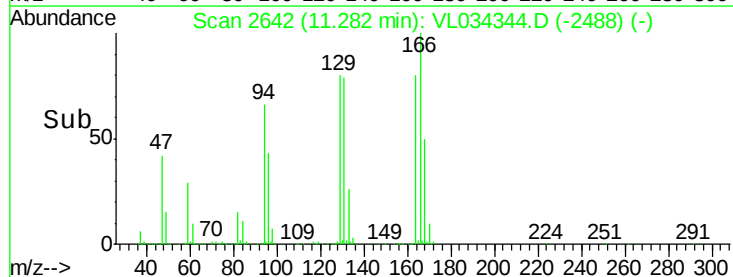
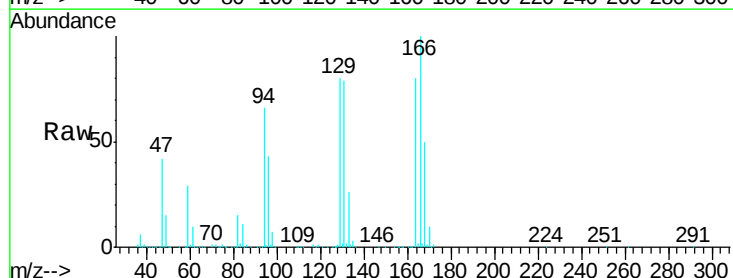
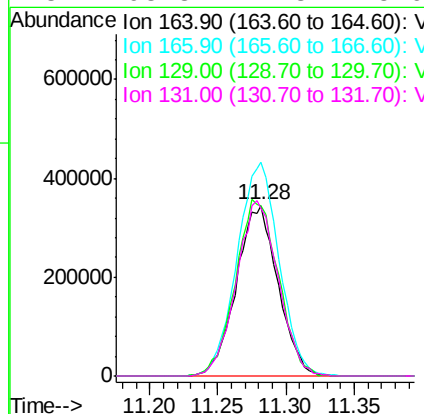
Delta R.T. -0.01 min

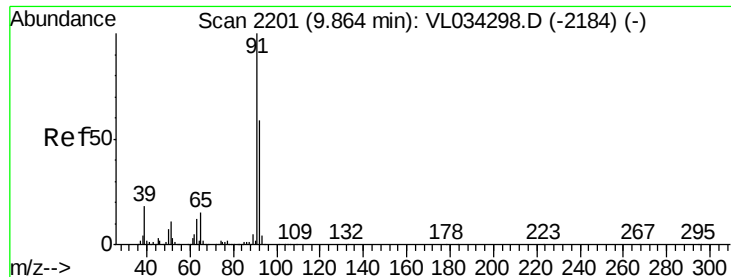
Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Tgt Ion: 164 Resp: 727074

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 125.0 | 95.3  | 142.9 |
| 129 | 99.7  | 84.5  | 126.7 |
| 131 | 98.3  | 77.3  | 115.9 |





#53

Toluene

Concen: 9.433 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 91 Resp: 2233949

Ion Ratio Lower Upper

91 100

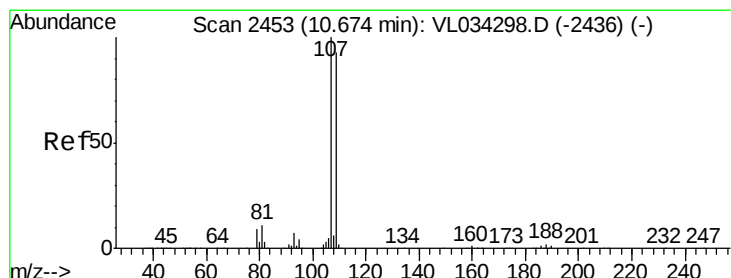
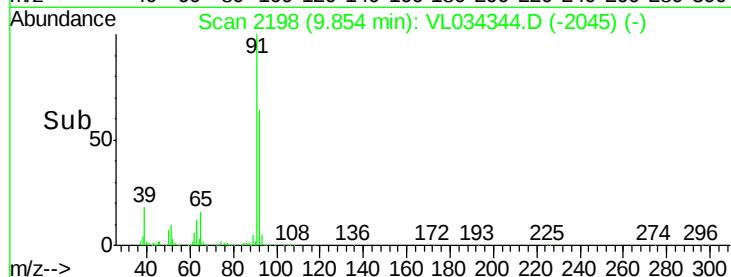
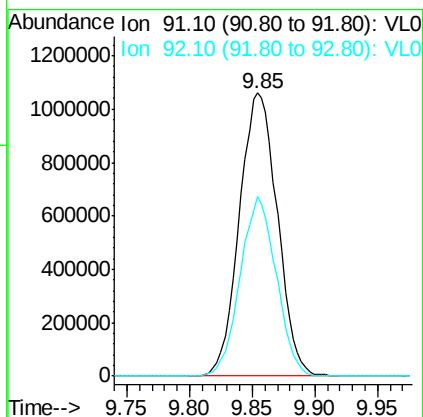
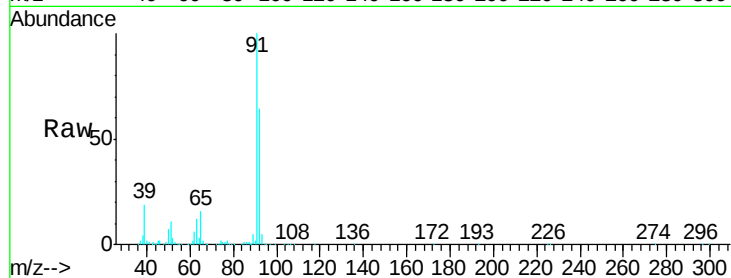
92 60.3 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 9.032 ppbv

RT: 10.67 min Scan# 2451

Delta R.T. -0.01 min

Lab File: VL034344.D

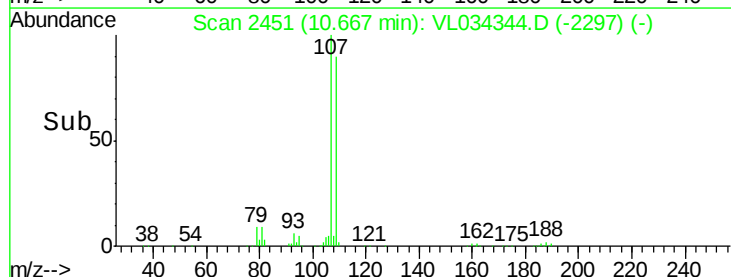
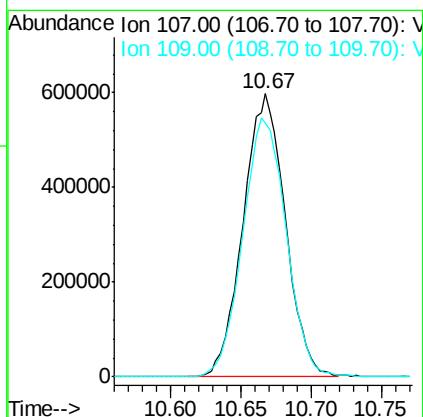
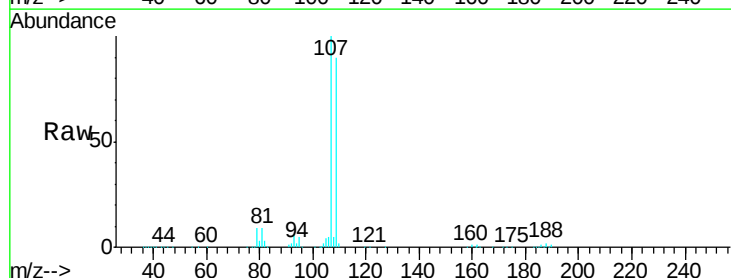
Acq: 24 Oct 2019 13:01

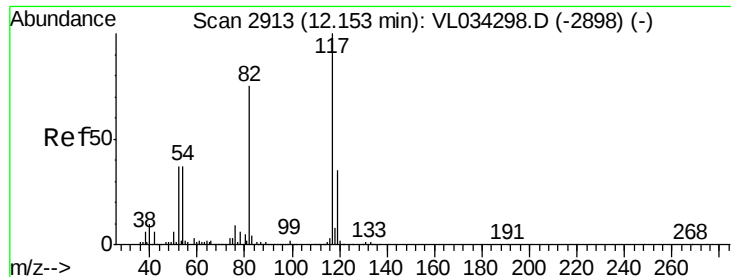
Tgt Ion: 107 Resp: 1252907

Ion Ratio Lower Upper

107 100

109 89.8 74.6 112.0





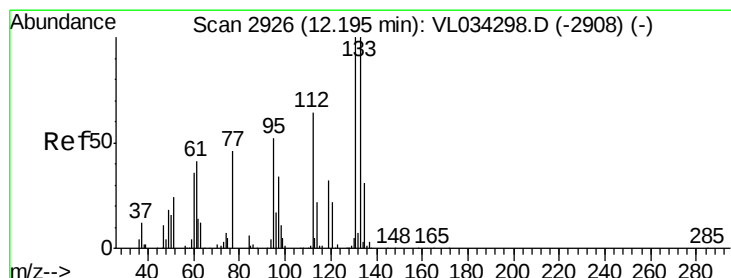
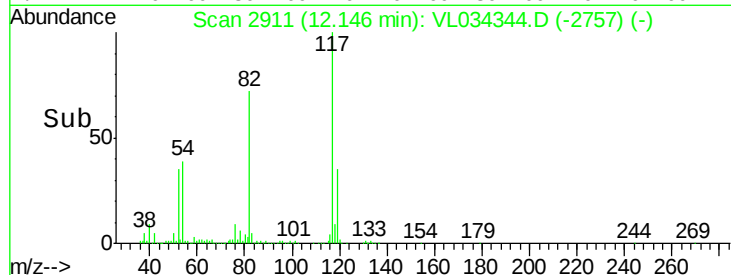
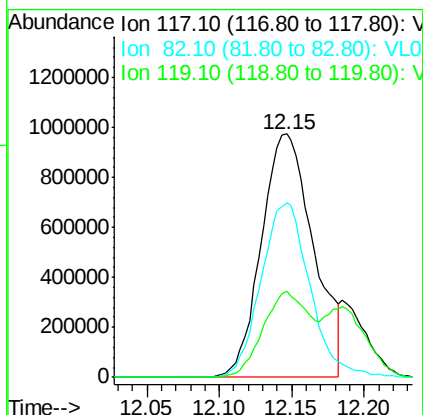
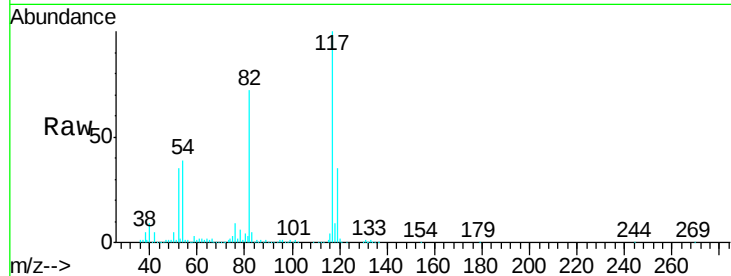
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.15 min Scan# 2911  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion:117 Resp: 2436040  
Ion Ratio Lower Upper  
117 100  
82 67.5 55.5 83.3  
119 32.2 26.5 39.7

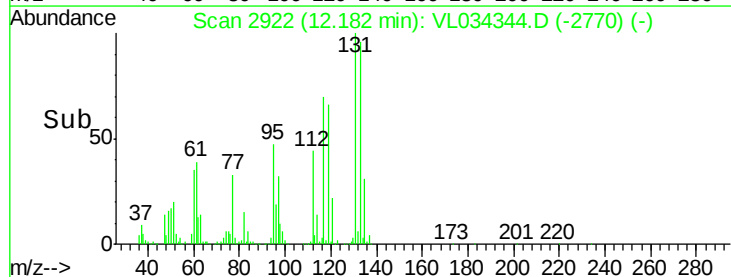
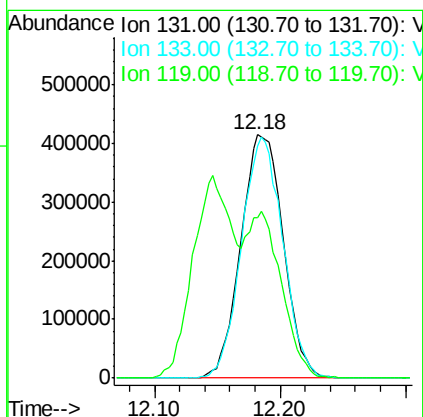
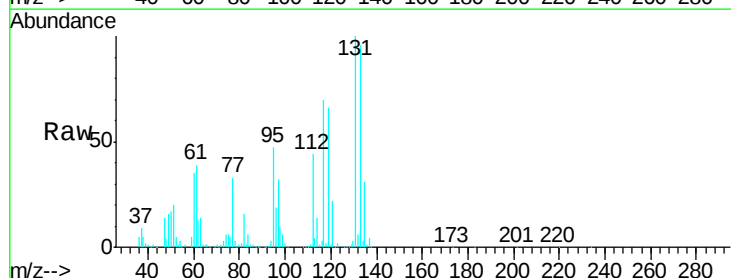
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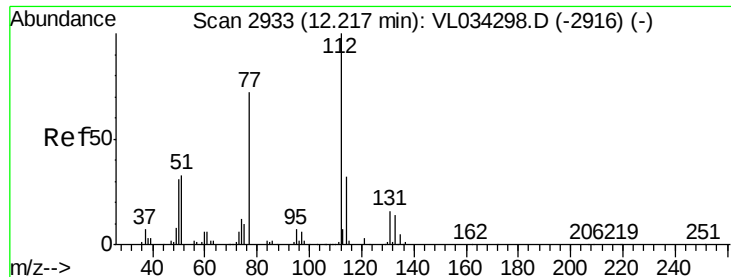
MMDadoda  
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#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.703 ppbv  
RT: 12.18 min Scan# 2922  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion:131 Resp: 977088  
Ion Ratio Lower Upper  
131 100  
133 96.3 77.1 115.7  
119 136.9 49.0 73.4#





#57

Chlorobenzene

Concen: 8.317 ppbv

RT: 12.20 min Scan# 2929

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 112 Resp: 1690243

Ion Ratio Lower Upper

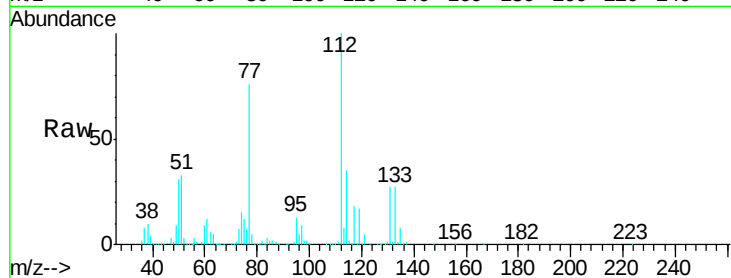
112 100

77 75.9 58.6 88.0

114 35.1 28.6 35.0#

Manual Integrations  
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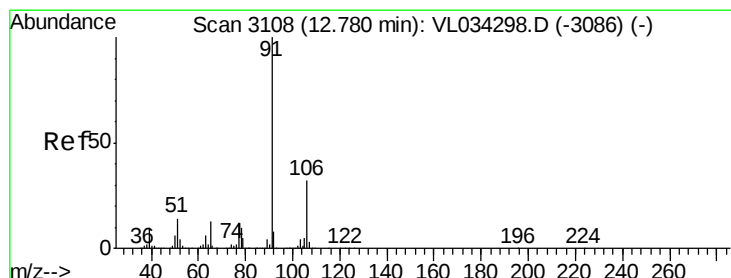
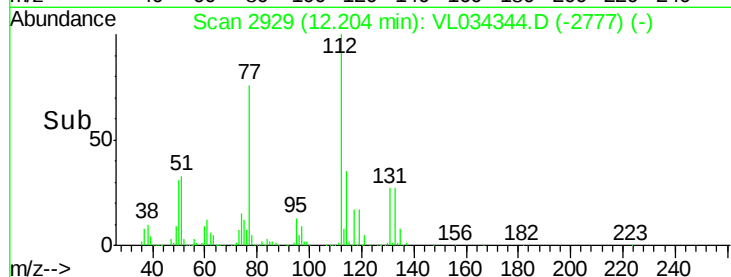
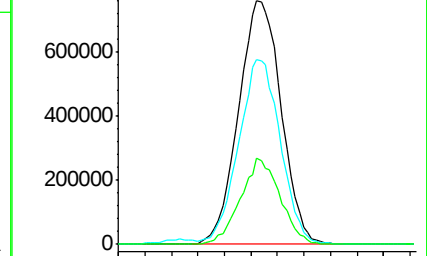
MMDadoda  
10/28/2019 9:43:03 AM



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



#58

Ethyl Benzene

Concen: 8.992 ppbv

RT: 12.77 min Scan# 3105

Delta R.T. -0.01 min

Lab File: VL034344.D

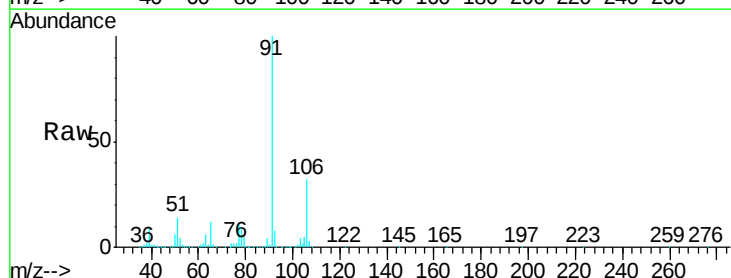
Acq: 24 Oct 2019 13:01

Tgt Ion: 91 Resp: 3062088

Ion Ratio Lower Upper

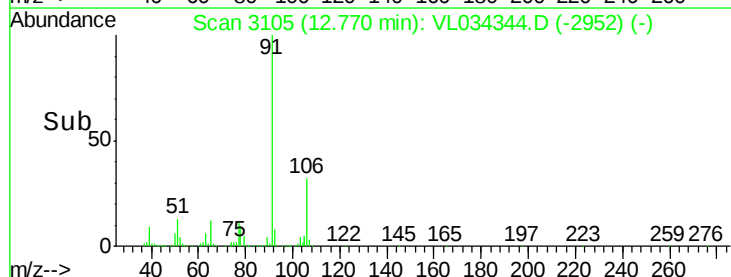
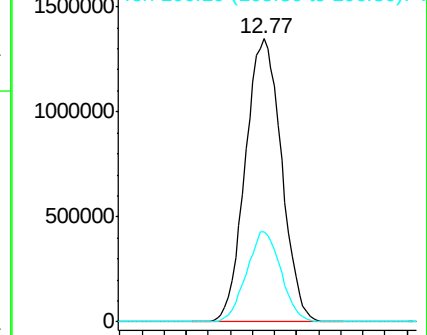
91 100

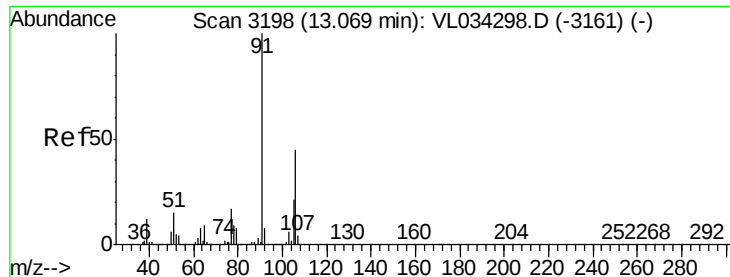
106 31.7 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





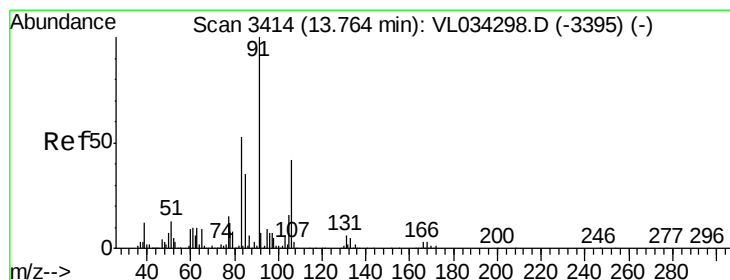
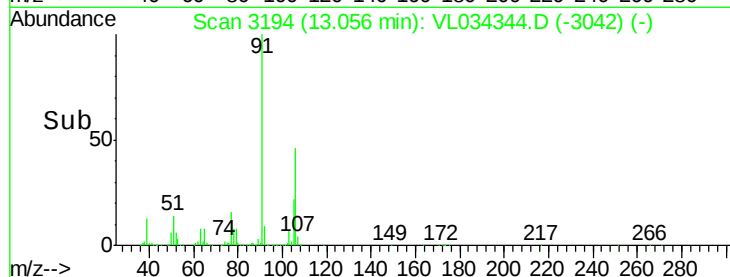
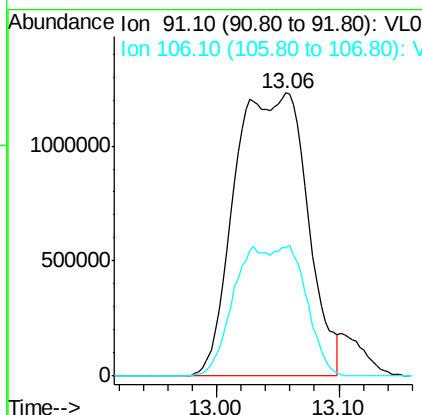
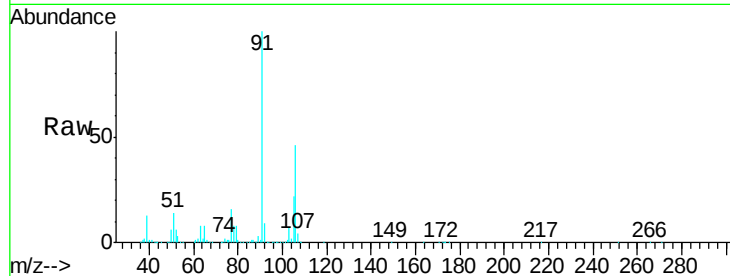
#59  
m/p-Xylene  
Concen: 17.177 ppbv m  
RT: 13.06 min Scan# 3194  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 91 Resp: 5068043  
Ion Ratio Lower Upper  
91 100  
106 44.3 35.4 53.2

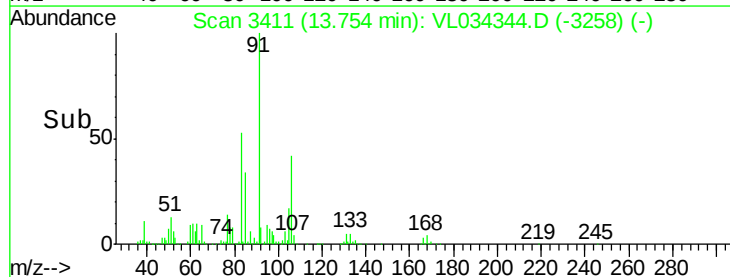
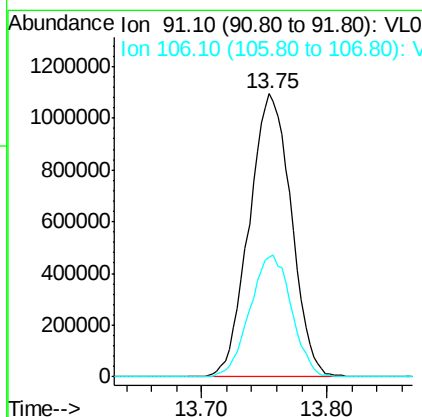
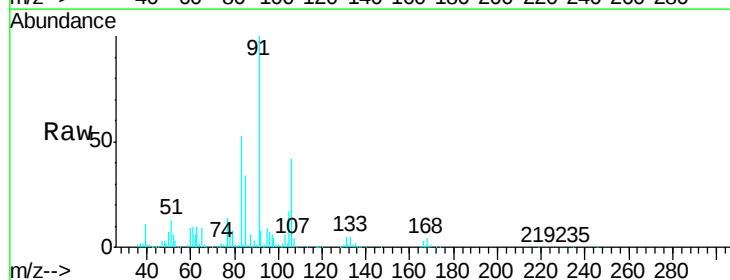
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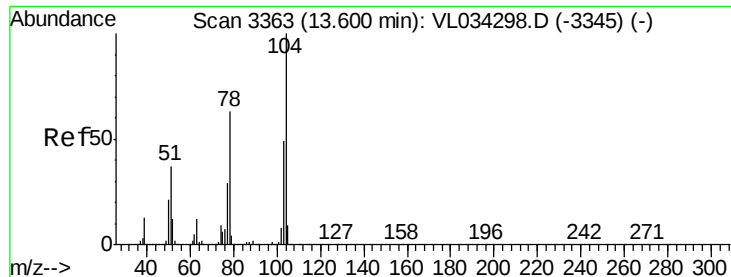
MMDadoda  
10/28/2019 9:43:03 AM



#60  
o-Xylene  
Concen: 8.694 ppbv  
RT: 13.75 min Scan# 3411  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 91 Resp: 2554445  
Ion Ratio Lower Upper  
91 100  
106 42.5 21.6 64.6





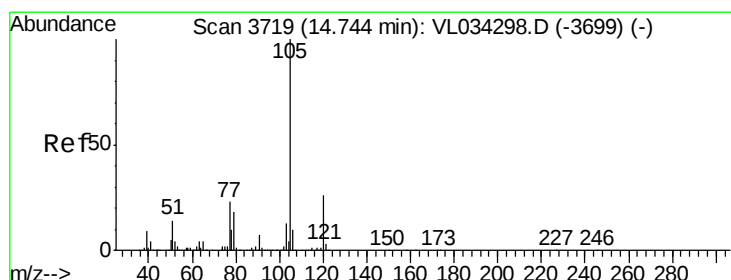
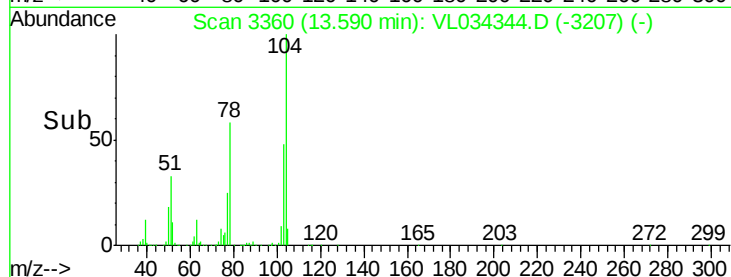
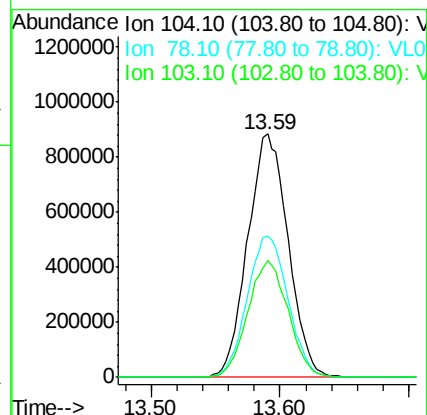
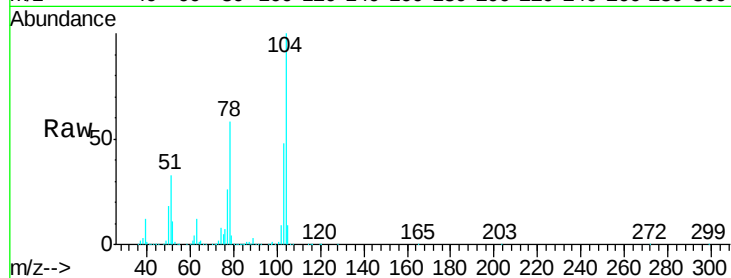
#61  
Styrene  
Concen: 9.348 ppbv  
RT: 13.59 min Scan# 3360  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion:104 Resp: 1933563  
Ion Ratio Lower Upper  
104 100  
78 58.8 47.8 71.8  
103 47.8 39.0 58.6

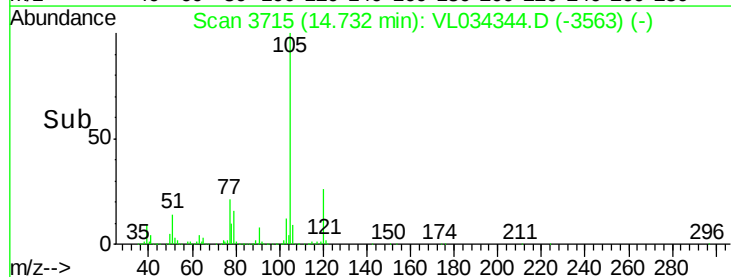
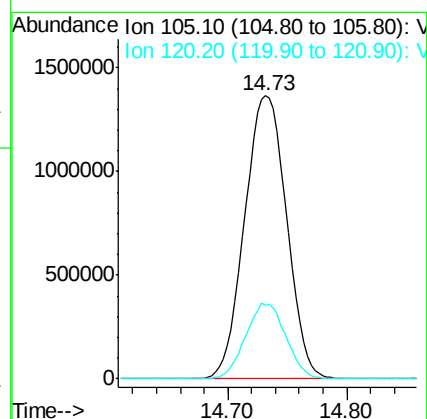
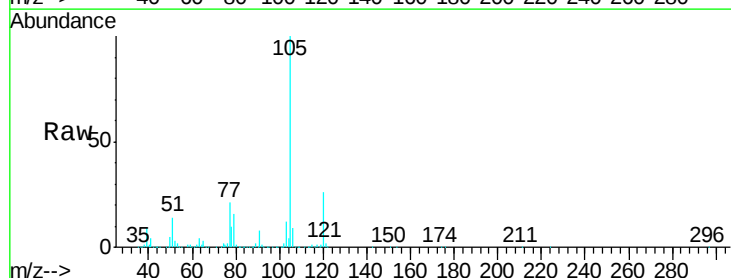
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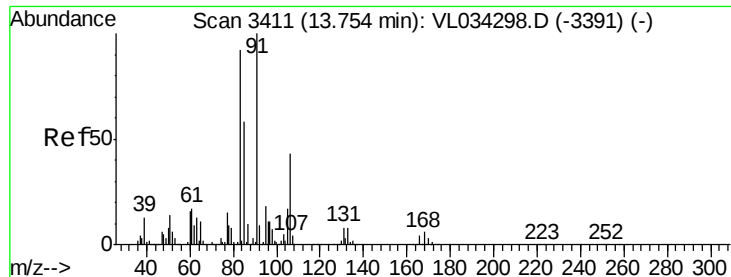
MMDadoda  
10/28/2019 9:43:03 AM



#62  
Isopropylbenzene  
Concen: 8.607 ppbv  
RT: 14.73 min Scan# 3715  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion:105 Resp: 3338051  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.8 31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 7.473 ppbv

RT: 13.74 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 83 Resp: 1764332

Ion Ratio Lower Upper

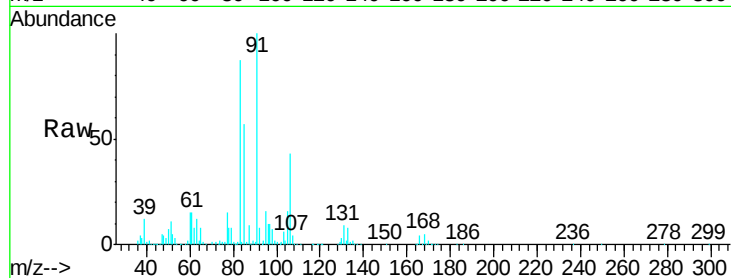
83 100

131 9.3 4.8 14.4

85 64.7 32.5 97.4

Manual Integrations  
APPROVED

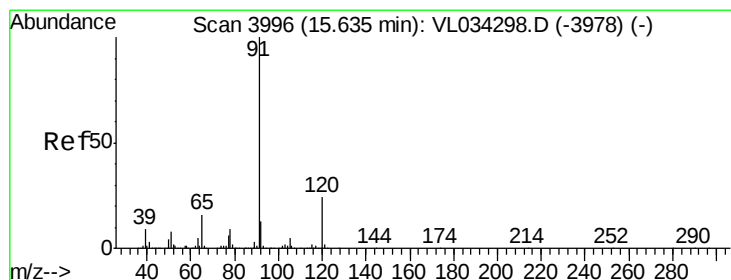
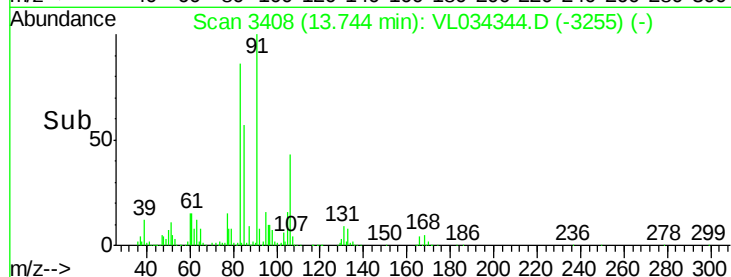
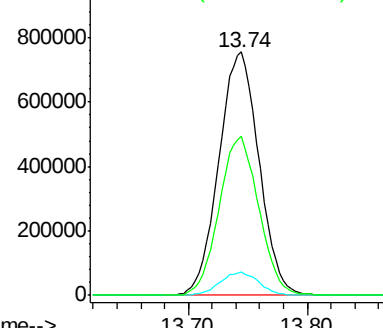
MMDadoda  
10/28/2019 9:43:03 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.748 ppbv

RT: 15.63 min Scan# 3994

Delta R.T. -0.01 min

Lab File: VL034344.D

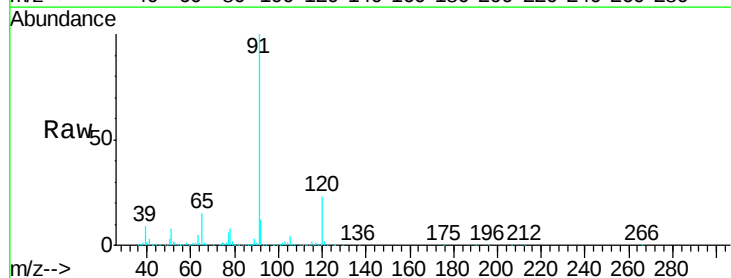
Acq: 24 Oct 2019 13:01

Tgt Ion: 120 Resp: 870673

Ion Ratio Lower Upper

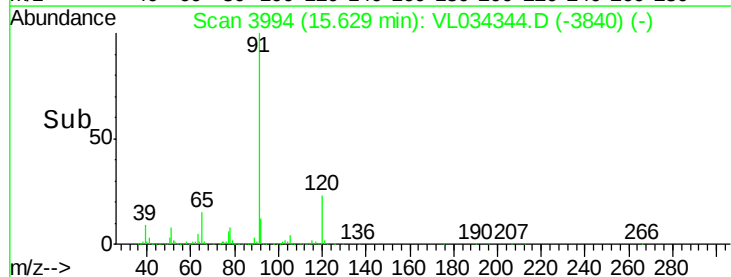
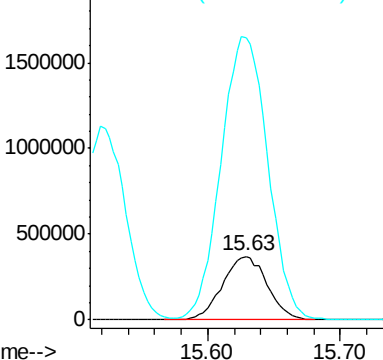
120 100

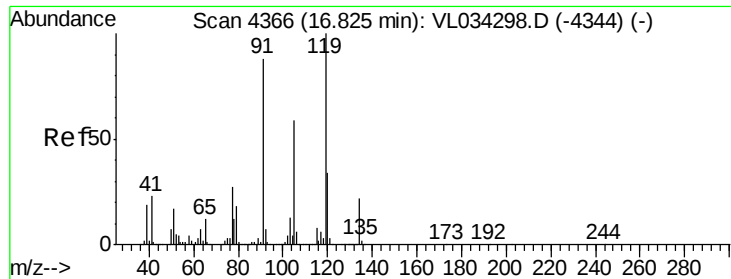
91 468.0 374.9 562.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





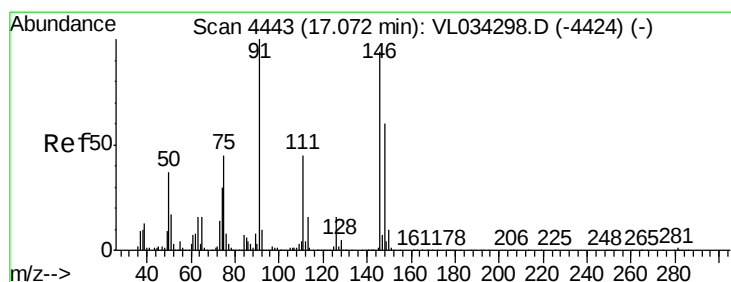
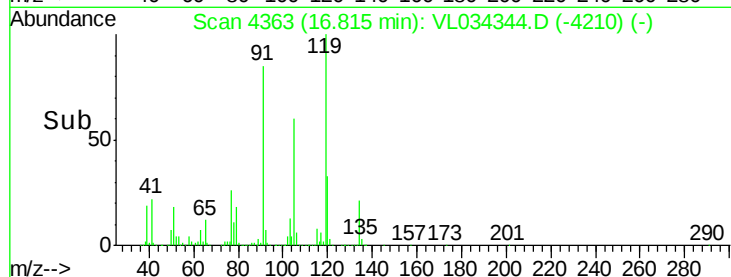
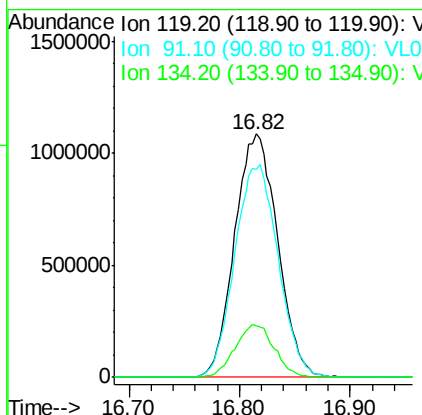
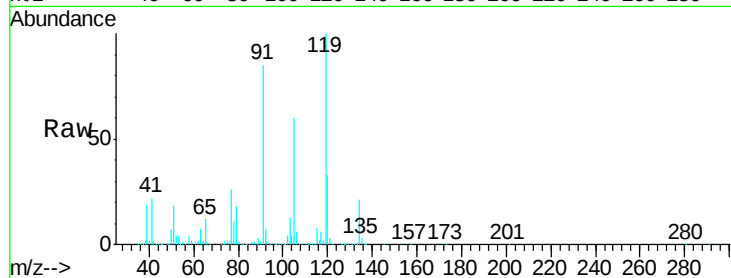
#65  
 tert-Butylbenzene  
 Concen: 8.512 ppbv  
 RT: 16.82 min Scan# 4363  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion: 119 Resp: 2925861  
 Ion Ratio Lower Upper  
 119 100  
 91 88.9 71.4 107.0  
 134 19.8 15.9 23.9

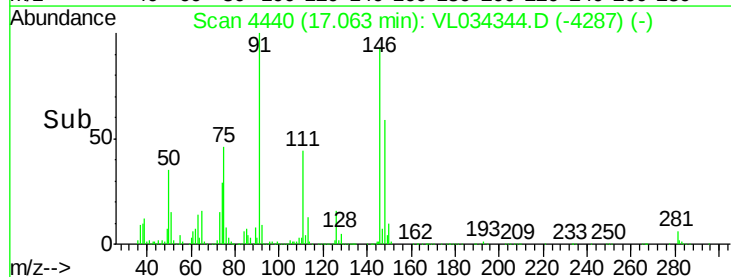
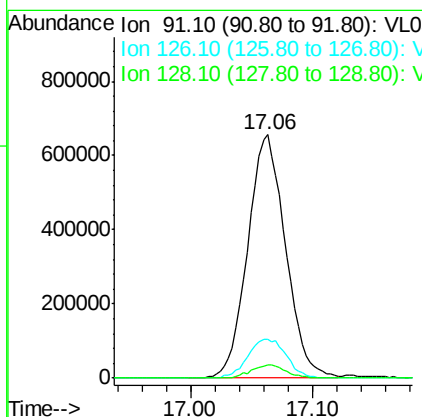
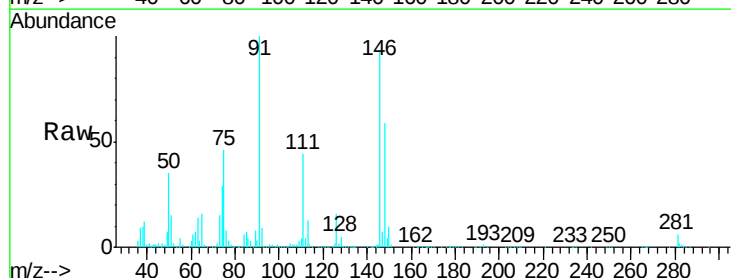
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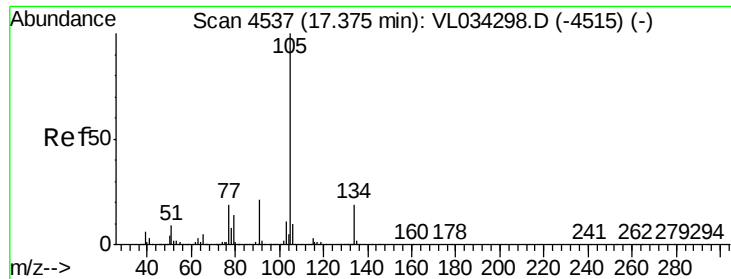
MMDadoda  
 10/28/2019 9:43:03 AM



#66  
 Benzyl Chloride  
 Concen: 10.320 ppbv  
 RT: 17.06 min Scan# 4440  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 91 Resp: 1401096  
 Ion Ratio Lower Upper  
 91 100  
 126 16.5 12.9 19.3  
 128 5.1 4.3 6.5





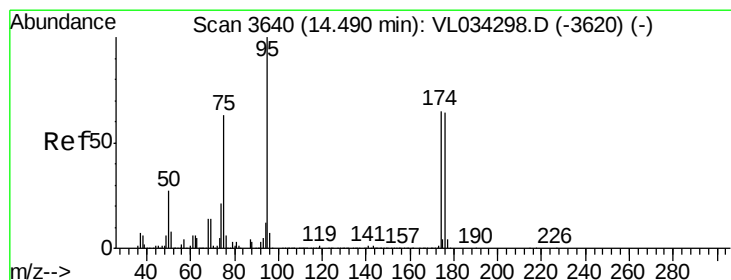
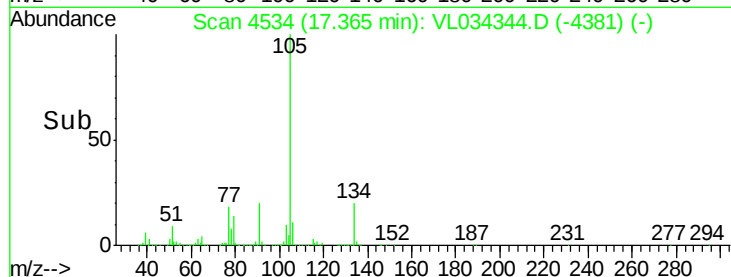
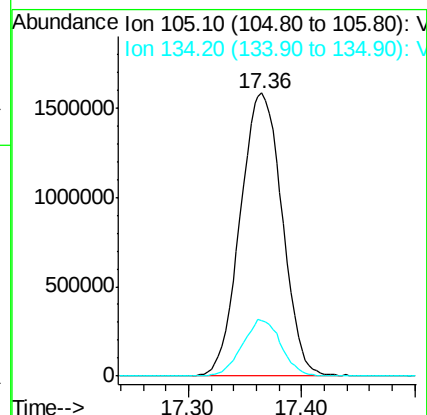
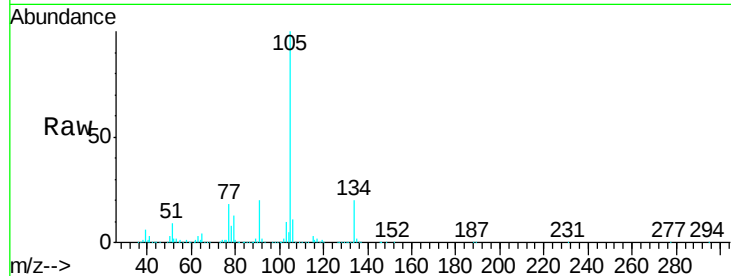
#67  
 sec-Butylbenzene  
 Concen: 8.413 ppbv  
 RT: 17.36 min Scan# 4534  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion: 105 Resp: 4069857  
 Ion Ratio Lower Upper  
 105 100  
 134 18.7 15.4 23.0

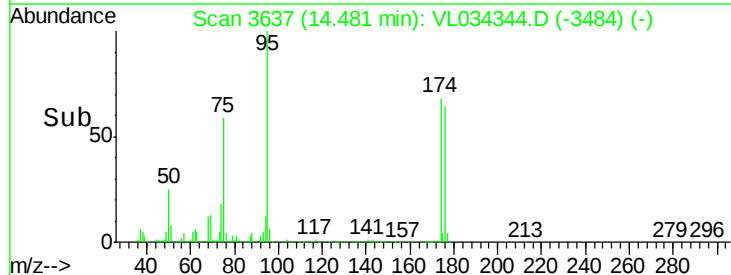
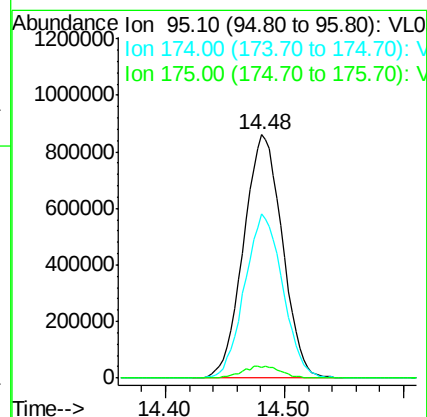
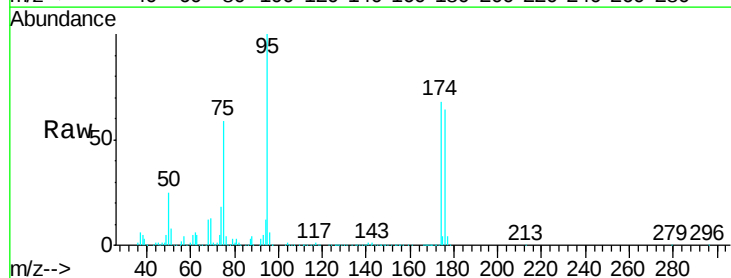
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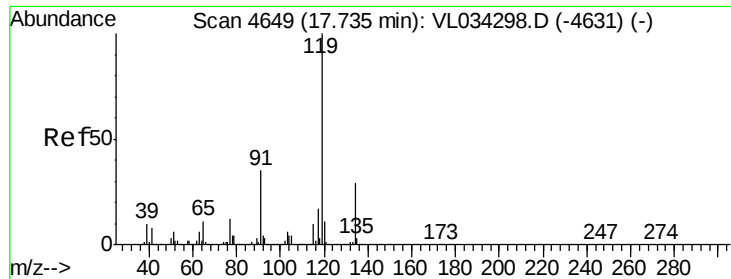
MMDadoda  
 10/28/2019 9:43:03 AM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.412 ppbv  
 RT: 14.48 min Scan# 3637  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 95 Resp: 1941808  
 Ion Ratio Lower Upper  
 95 100  
 174 66.5 52.6 78.8  
 175 4.9 3.8 5.6





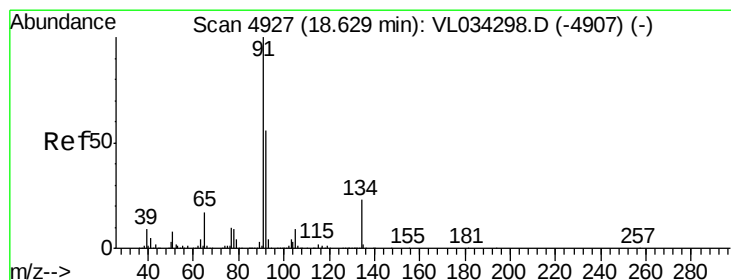
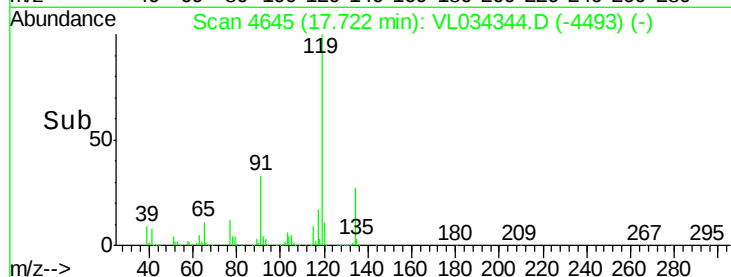
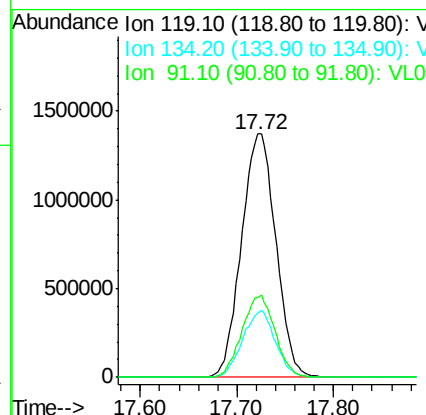
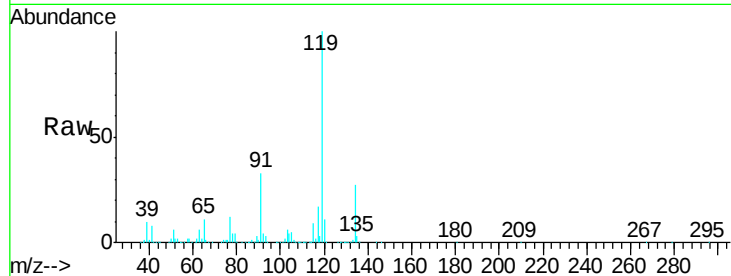
#69  
p-Isopropyltoluene  
Concen: 8.587 ppbv  
RT: 17.72 min Scan# 4645  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.1  | 21.3  | 31.9  |
| 91      | 32.5  | 26.6  | 39.8  |

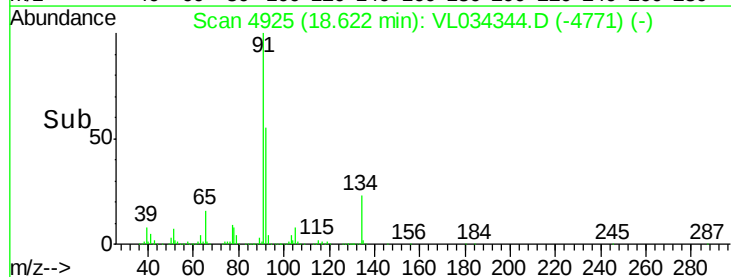
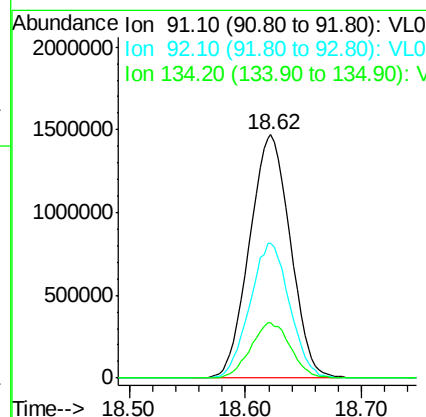
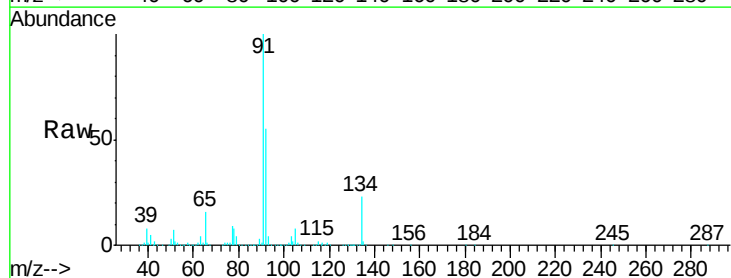
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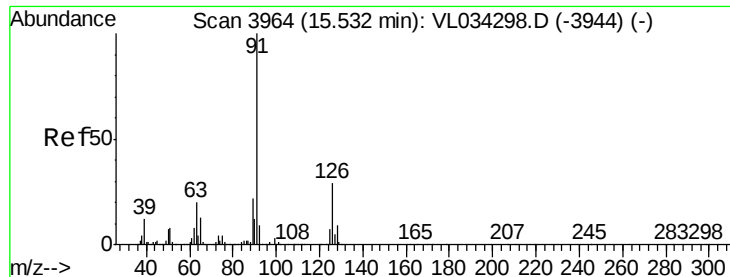
MMDadoda  
10/28/2019 9:43:03 AM



#70  
n-Butylbenzene  
Concen: 8.370 ppbv  
RT: 18.62 min Scan# 4925  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.3  | 44.5  | 66.7  |
| 134     | 22.3  | 18.2  | 27.2  |





#71

2-Chlorotoluene

Concen: 8.689 ppbv

RT: 15.52 min Scan# 3960

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 91 Resp: 2612938

Ion Ratio Lower Upper

91 100

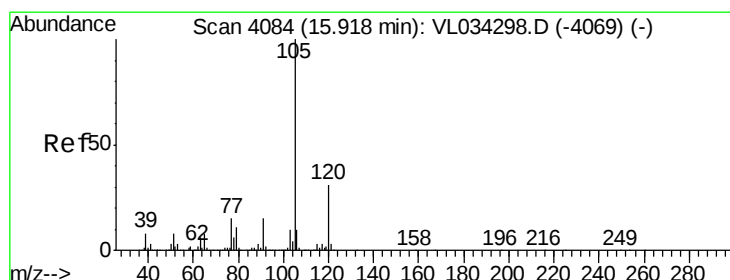
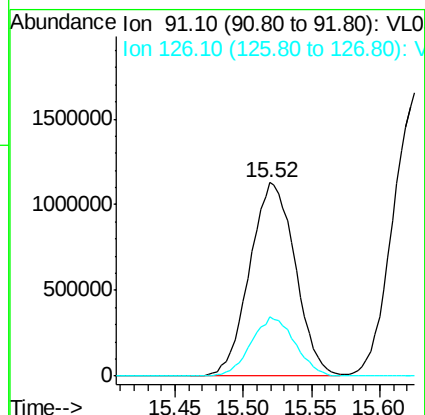
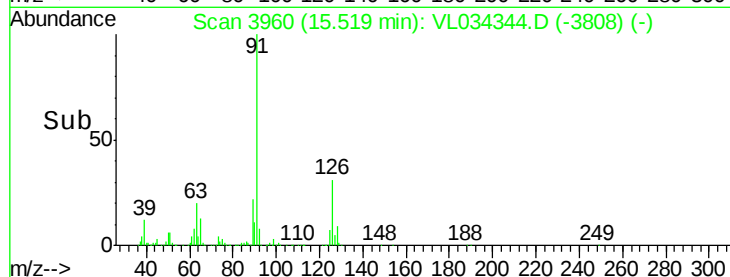
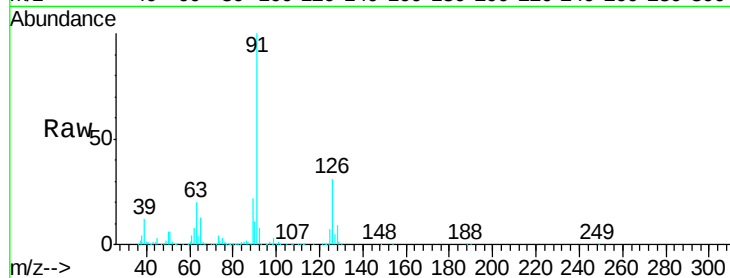
126 29.6 11.9 47.5

Manual Integrations

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10/28/2019 9:43:03 AM



#72

4-Ethyltoluene

Concen: 8.849 ppbv

RT: 15.91 min Scan# 4081

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Tgt Ion: 105 Resp: 2922577

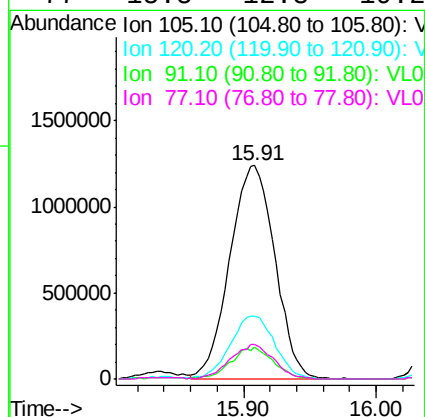
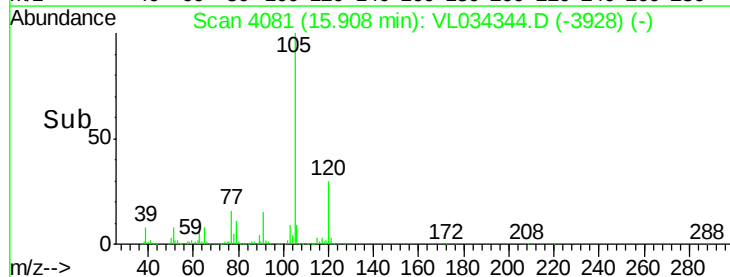
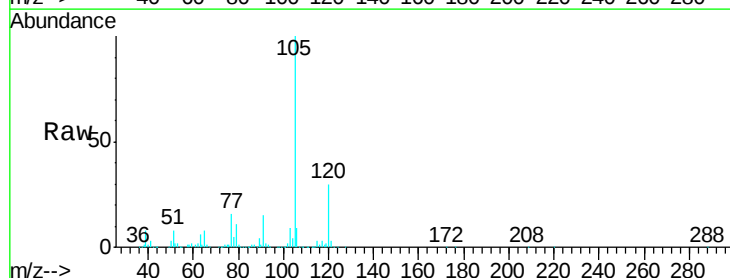
Ion Ratio Lower Upper

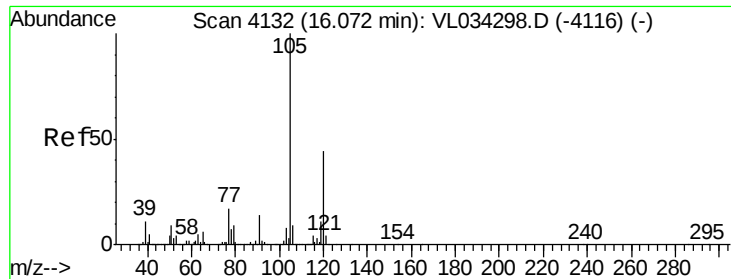
105 100

120 29.3 23.8 35.8

91 13.9 11.2 16.8

77 15.5 12.8 19.2





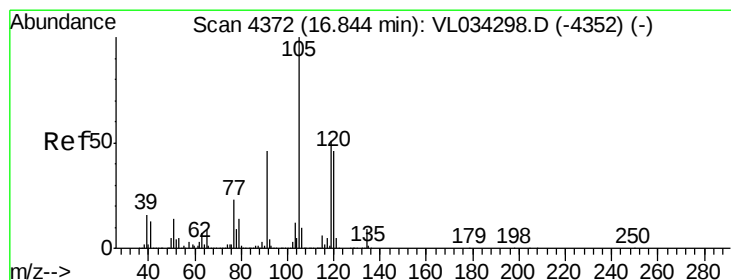
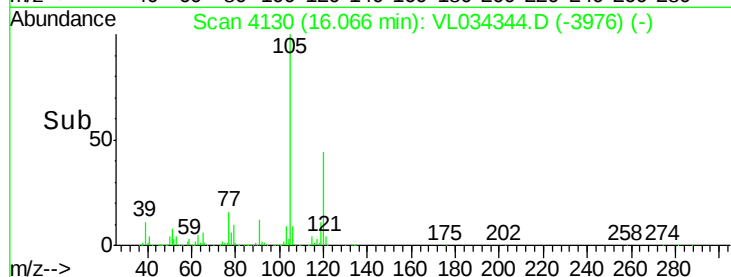
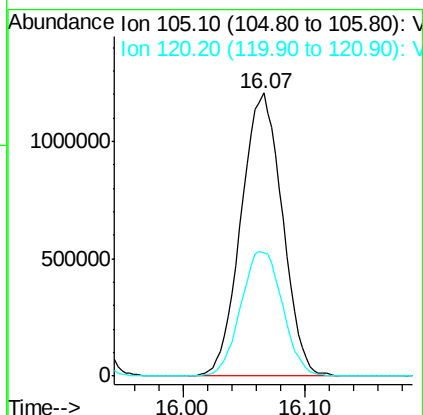
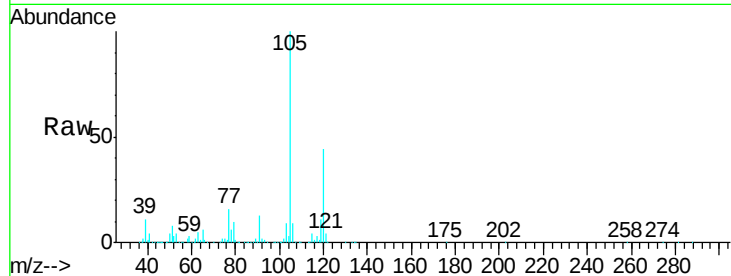
#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.584 ppbv  
 RT: 16.07 min Scan# 4130  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion:105 Resp: 2808843  
 Ion Ratio Lower Upper  
 105 100  
 120 43.7 35.2 52.8

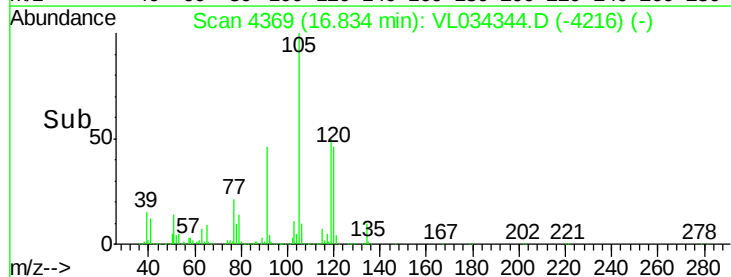
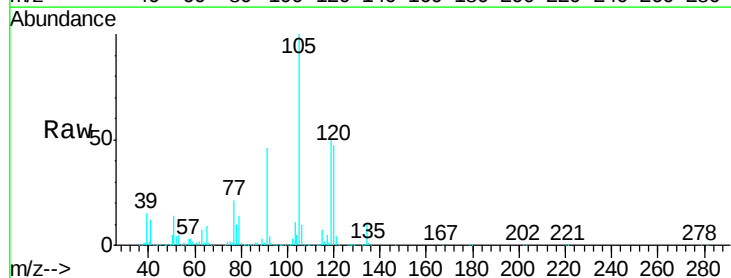
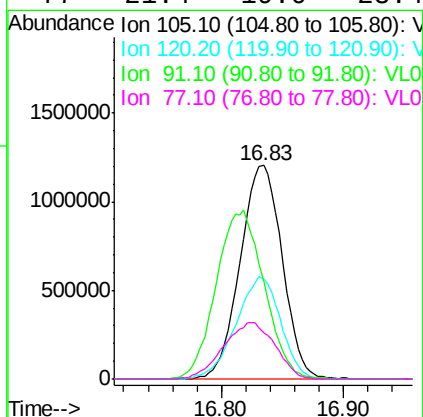
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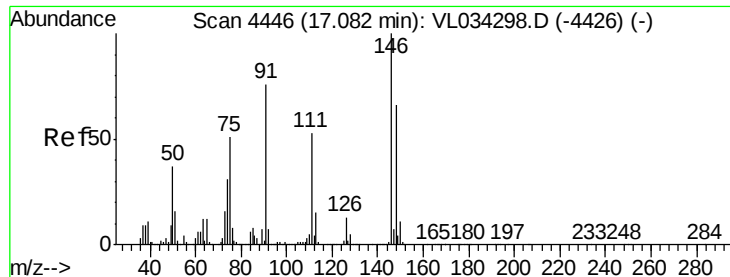
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.367 ppbv  
 RT: 16.83 min Scan# 4369  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion:105 Resp: 2855297  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 37.0 55.6  
 91 45.5 38.2 57.2  
 77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 7.941 ppbv

RT: 17.07 min Scan# 4442

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion:146 Resp: 1627030

Ion Ratio Lower Upper

146 100

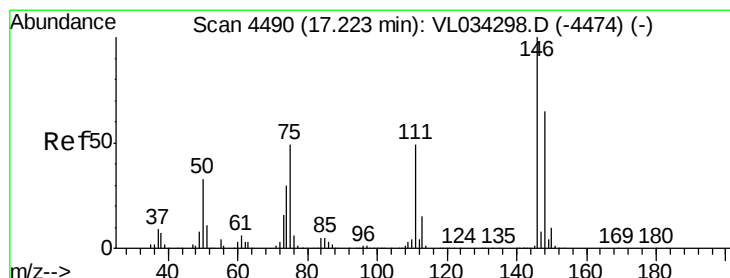
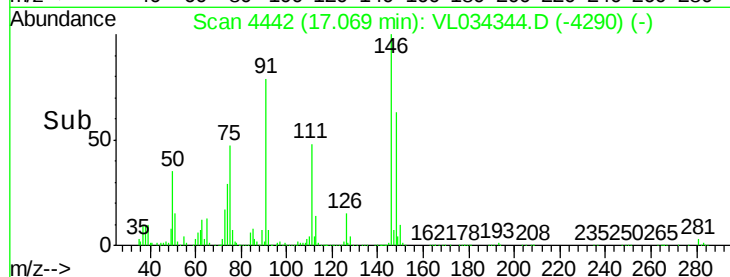
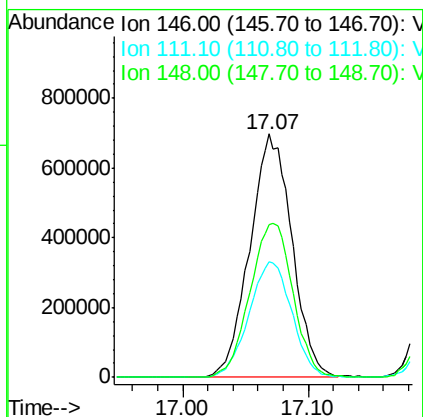
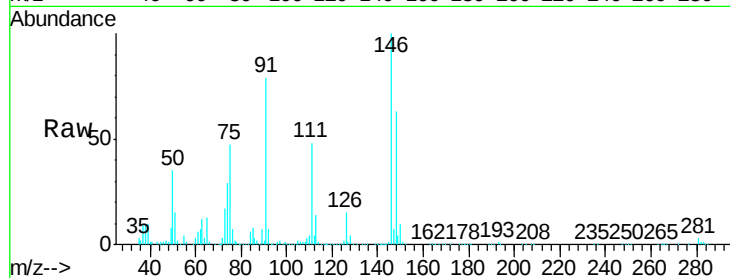
111 48.6 24.5 73.5

148 64.7 32.3 96.8

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#76

1,4-Dichlorobenzene

Concen: 8.224 ppbv

RT: 17.21 min Scan# 4486

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

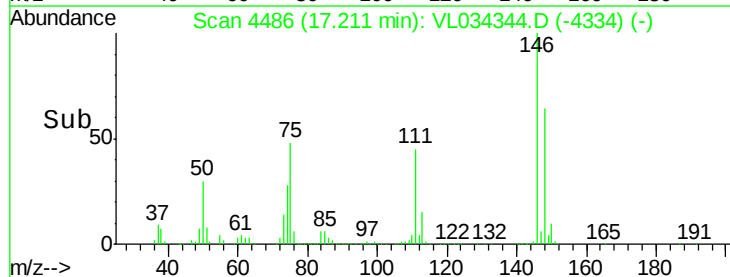
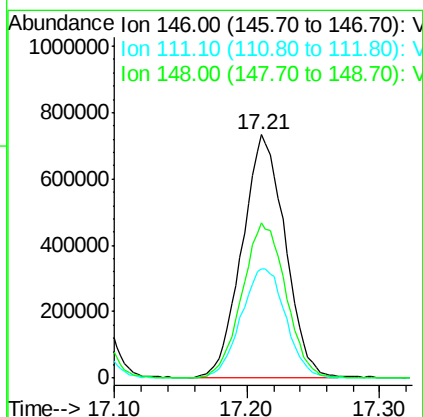
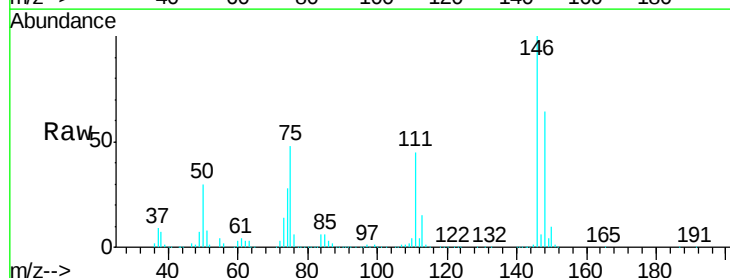
Tgt Ion:146 Resp: 1645753

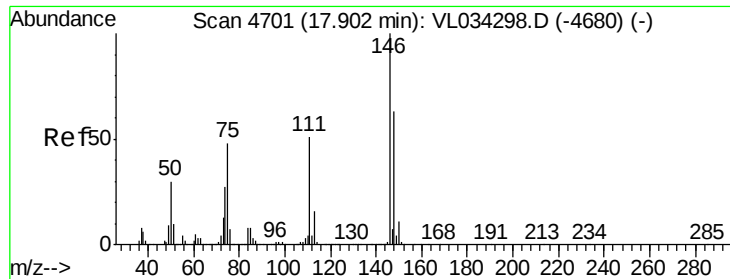
Ion Ratio Lower Upper

146 100

111 47.3 23.9 71.7

148 65.6 33.1 99.2





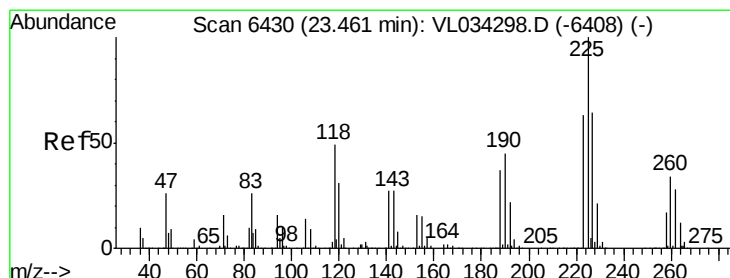
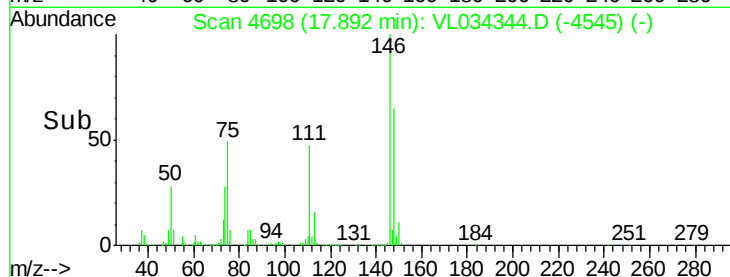
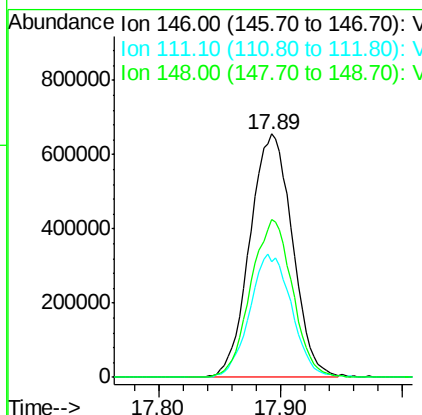
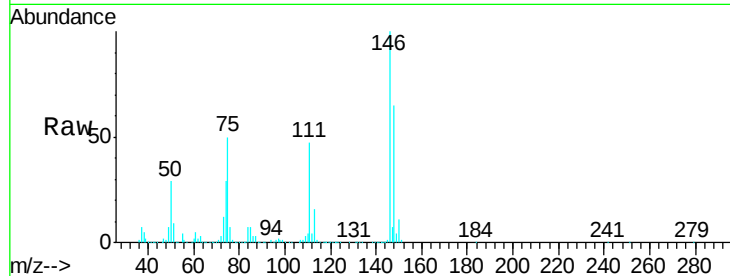
#77  
 1,2-Dichlorobenzene  
 Concen: 7.876 ppbv  
 RT: 17.89 min Scan# 4698  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion:146 Resp: 1581995  
 Ion Ratio Lower Upper  
 146 100  
 111 49.9 25.1 75.3  
 148 63.9 32.3 96.8

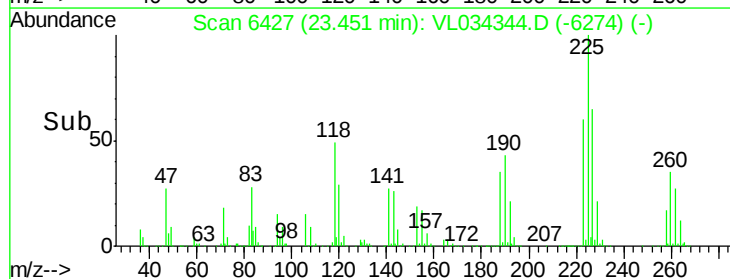
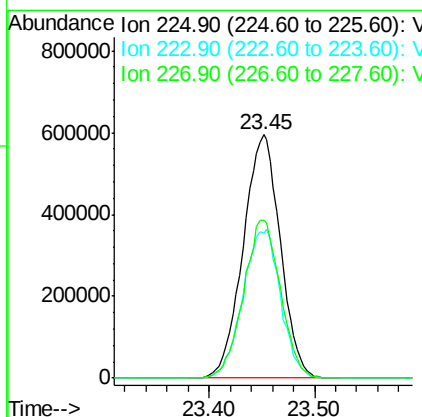
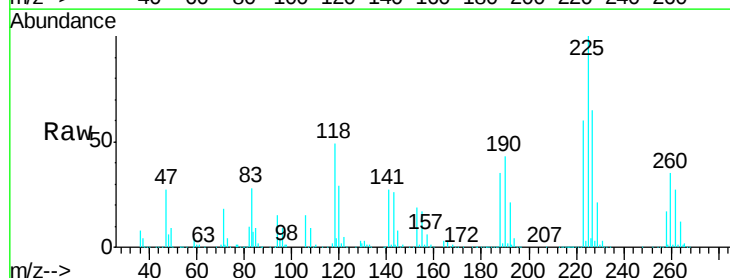
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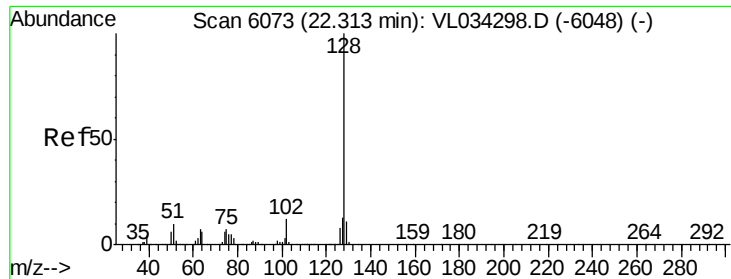
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.765 ppbv  
 RT: 23.45 min Scan# 6427  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion:225 Resp: 1456359  
 Ion Ratio Lower Upper  
 225 100  
 223 62.0 50.8 76.2  
 227 64.5 51.5 77.3





#79

Naphthalene

Concen: 11.080 ppbv

RT: 22.29 min Scan# 6067

Delta R.T. -0.02 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

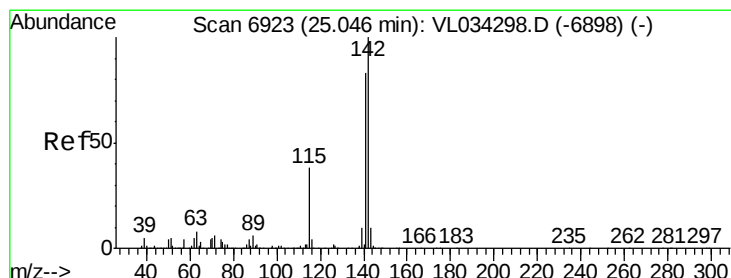
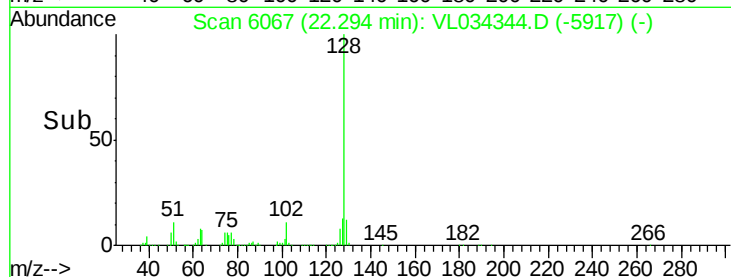
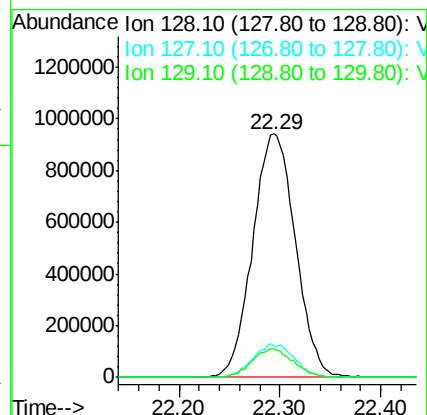
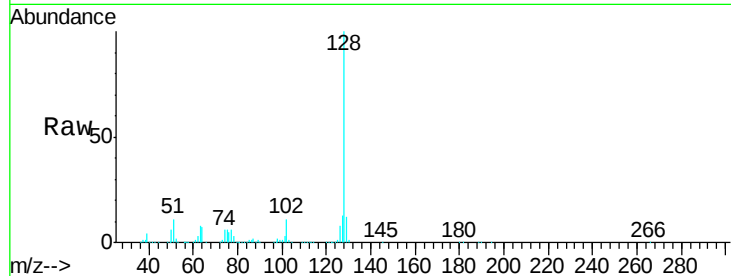
ClientSampleId :

VL1024ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 2761845 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 12.9  | 10.2  | 15.4    |
| 129      | 11.8  | 8.9   | 13.3    |

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#80

Naphthalene, 2-methyl-

Concen: 18.519 ppbv

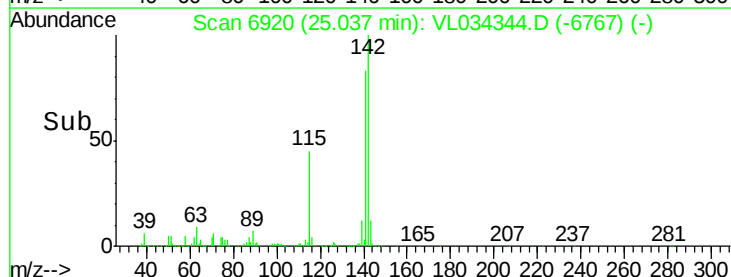
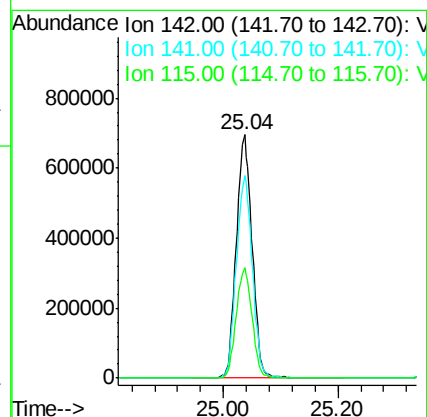
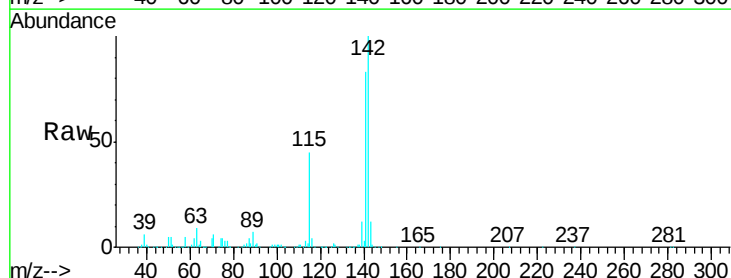
RT: 25.04 min Scan# 6920

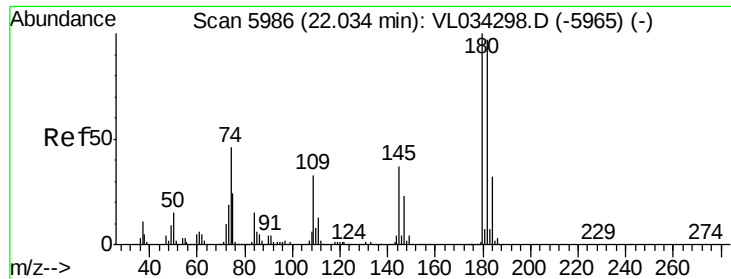
Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 142   | Resp: | 1334362 |
| Ion      | Ratio | Lower | Upper   |
| 142      | 100   |       |         |
| 141      | 84.3  | 65.7  | 98.5    |
| 115      | 45.3  | 30.9  | 46.3    |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.945 ppbv  
 RT: 22.02 min Scan# 5983  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.5  | 77.8  | 116.8 |
| 184     | 31.3  | 25.4  | 38.2  |

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 10/28/2019 9:43:03 AM

