

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012221\  
 Data File : VL036263.D  
 Acq On : 22 Jan 2021 11:55  
 Operator : SY/AP  
 Sample : VL0122ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0122ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/26/2021 12:58:26 PM

Quant Time: Jan 23 04:44:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:13:38 2021  
 QLast Update : Thu Jan 14 16:13:38 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1606604  | 10.00 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 3596847  | 10.00 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 3261748m | 10.00 | ppbv  | 0.03     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2872723  | 10.64    | ppbv | 0.03    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.40% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85   | 1954731  | 9.077  | ppbv  | 98     |
| 3) Chlorodifluoromethane       | 3.00 | 51   | 2076109  | 10.522 | ppbv  | 99     |
| 4) Chloromethane               | 3.15 | 50   | 984885   | 10.099 | ppbv  | 99     |
| 5) Vinyl Chloride              | 3.27 | 62   | 974556   | 10.561 | ppbv  | 96     |
| 6) Bromomethane                | 3.49 | 94   | 549726   | 10.655 | ppbv  | 96     |
| 7) Chloroethane                | 3.57 | 64   | 345928   | 10.885 | ppbv  | 97     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85   | 2164598  | 10.375 | ppbv  | 99     |
| 9) Propene                     | 3.02 | 41   | 877012   | 9.334  | ppbv  | 99     |
| 10) Heptane                    | 8.15 | 43   | 2322821  | 9.959  | ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.97 | 101  | 2300034  | 10.505 | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.51 | 101  | 1448819  | 10.915 | ppbv  | 98     |
| 13) Ethanol                    | 3.62 | 45   | 159827m  | 10.833 | ppbv  |        |
| 14) Bromoethene                | 3.75 | 108  | 628049   | 10.391 | ppbv  | 98     |
| 15) Acetone                    | 3.87 | 43   | 1880972  | 9.560  | ppbv  | 97     |
| 16) 1,3-Butadiene              | 3.34 | 39   | 946399   | 9.873  | ppbv  | 94     |
| 17) tert-Butyl alcohol         | 4.31 | 59   | 1548389  | 9.536  | ppbv  | 99     |
| 18) 1,1-Dichloroethene         | 4.31 | 96   | 618798   | 10.055 | ppbv  | 98     |
| 19) Isopropyl Alcohol          | 3.99 | 45   | 1082376  | 9.125  | ppbv  | 99     |
| 20) Methylene Chloride         | 4.36 | 84   | 580666   | 9.246  | ppbv  | 91     |
| 21) Allyl Chloride             | 4.43 | 41   | 1112748  | 10.390 | ppbv  | 93     |
| 22) trans-1,2-Dichloroethene   | 4.91 | 96   | 626688   | 11.022 | ppbv  | 94     |
| 23) Vinyl Acetate              | 5.10 | 43   | 2621951  | 10.997 | ppbv  | # 96   |
| 24) 1,1-Dichloroethane         | 5.03 | 63   | 1831586  | 10.605 | ppbv  | 98     |
| 25) Ethyl Acetate              | 5.70 | 43   | 3938739  | 9.970  | ppbv  | 100    |
| 26) Hexane                     | 5.71 | 57   | 1593853  | 9.691  | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.57 | 76   | 1637337  | 12.450 | ppbv  | 98     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 2288169  | 10.287 | ppbv  | 96     |
| 29) Chloroform                 | 5.78 | 83   | 2562103  | 10.880 | ppbv  | 94     |
| 30) Cyclohexane                | 7.15 | 84   | 1344146  | 10.695 | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.57 | 61   | 1669459  | 10.620 | ppbv  | 95     |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97   | 2500655  | 10.979 | ppbv  | 100    |
| 34) 2-Butanone                 | 5.27 | 43   | 2537680  | 9.580  | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.04 | 117  | 2531508  | 11.139 | ppbv  | 99     |
| 36) Benzene                    | 6.92 | 78   | 3307362  | 10.035 | ppbv  | 98     |
| 37) 1,2-Dichloroethane         | 6.33 | 62   | 2116750  | 10.673 | ppbv  | 99     |
| 38) Trichloroethene            | 7.86 | 130  | 1110900  | 9.101  | ppbv  | 95     |
| 39) 1,2-Dichloropropane        | 7.64 | 63   | 1352718  | 10.109 | ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.86 | 88   | 443408m  | 9.160  | ppbv  |        |
| 41) Tetrahydrofuran            | 6.07 | 42   | 1436159  | 9.382  | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.82 | 83   | 2772058  | 11.121 | ppbv  | 96     |
| 43) Methyl Methacrylate        | 8.04 | 69   | 1489566  | 10.635 | ppbv  | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012221\  
 Data File : VL036263.D  
 Acq On : 22 Jan 2021 11:55  
 Operator : SY/AP  
 Sample : VL0122ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

Manual Integrations  
 APPROVED

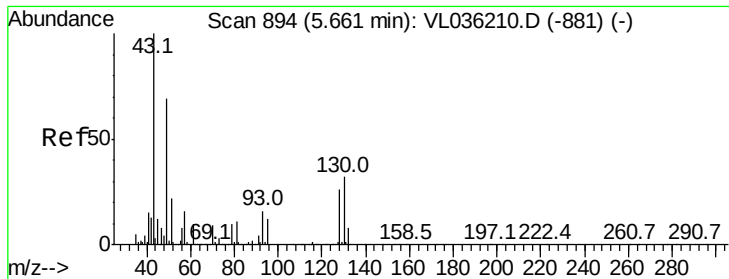
MMDadoda  
 1/26/2021 12:58:26 PM

Quant Time: Jan 23 04:44:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 2021  
 QLast Update : Thu Jan 14 16:13:38 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 5681679  | 9.386  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.31  | 75   | 1632473  | 12.271 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.73  | 75   | 1960721  | 11.470 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.51  | 97   | 1308011  | 10.218 | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.33 | 129  | 2112175  | 11.278 | ppbv   | 100      |
| 49) Bromoform                 | 13.07 | 173  | 1747364  | 11.177 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.77  | 43   | 3946253  | 9.992  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.16 | 43   | 3223444  | 10.346 | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.25 | 164  | 1054776  | 8.685  | ppbv   | 97       |
| 53) Toluene                   | 9.83  | 91   | 3706539  | 10.054 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 1958051  | 10.319 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 1588025  | 10.910 | ppbv # | 91       |
| 57) Chlorobenzene             | 12.18 | 112  | 2576227  | 10.067 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.74 | 91   | 4996573  | 10.323 | ppbv   | 98       |
| 59) m/p-Xylene                | 13.03 | 91   | 8432422m | 20.275 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 3945818  | 9.842  | ppbv   | 99       |
| 61) Styrene                   | 13.56 | 104  | 2758293  | 10.896 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.70 | 105  | 5857377  | 9.827  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 2839001  | 9.511  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.59 | 120  | 1522561  | 10.396 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 4959086  | 9.819  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.02 | 91   | 1881125  | 14.578 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.32 | 105  | 7184037  | 9.582  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 5885816  | 9.899  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.58 | 91   | 6320721  | 9.976  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 4688878  | 10.008 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 4567362  | 10.096 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 4310202  | 9.994  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 4399055  | 9.944  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 2368784  | 9.984  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.17 | 146  | 2325721  | 9.922  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 2356008  | 10.167 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.41 | 225  | 1697495  | 9.159  | ppbv   | 100      |
| 79) Naphthalene               | 22.24 | 128  | 3257065  | 12.596 | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 25.00 | 142  | 960323   | 17.405 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.97 | 180  | 1648483  | 10.920 | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

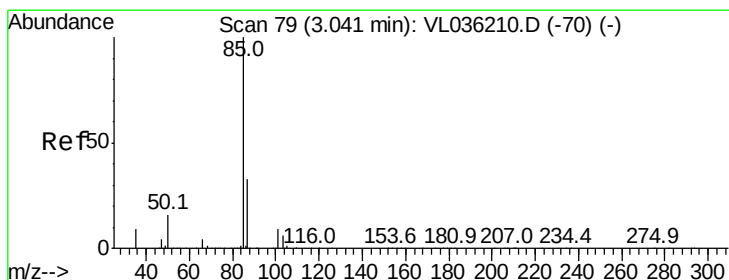
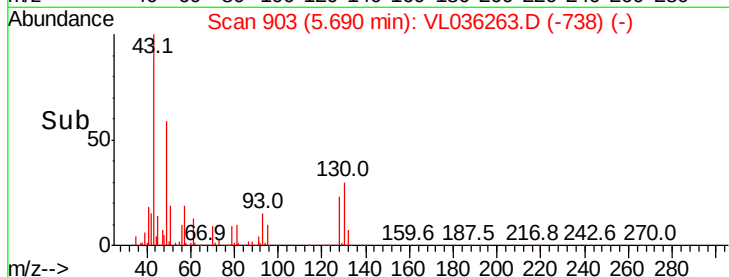
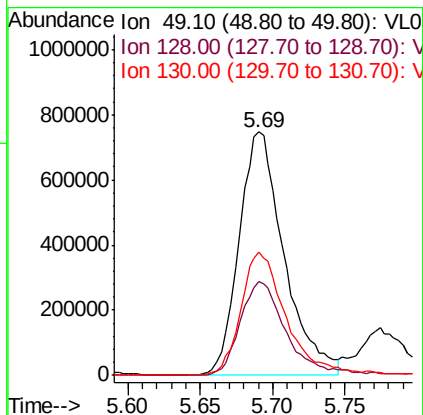
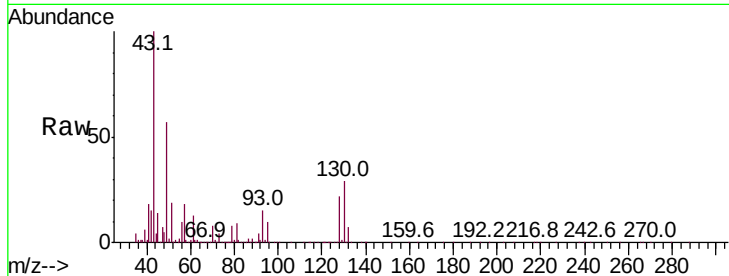
VL0122ABS01

Tot Ion: 49 Resp: 1606604

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 40.5  | 20.1  | 60.2  |
| 130 | 52.4  | 25.3  | 75.9  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 9.077 ppbv

RT: 3.06 min Scan# 85

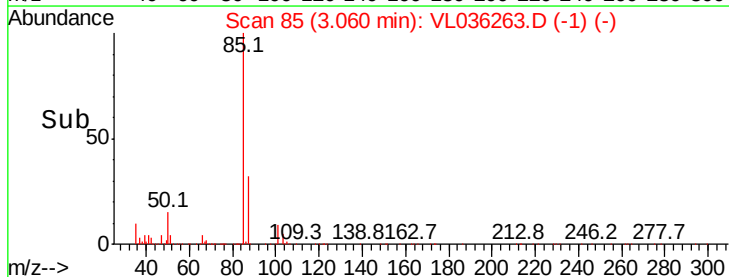
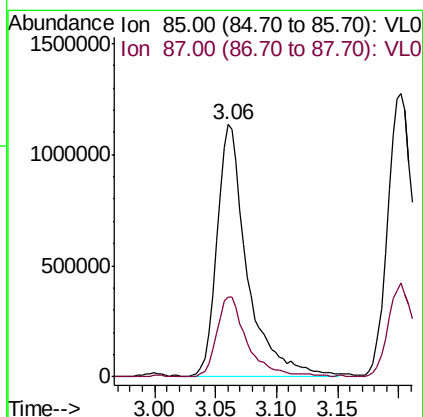
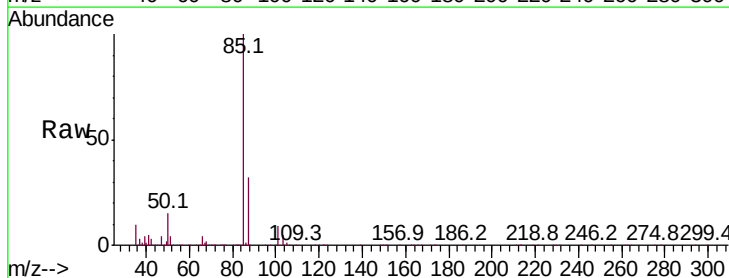
Delta R.T. 0.02 min

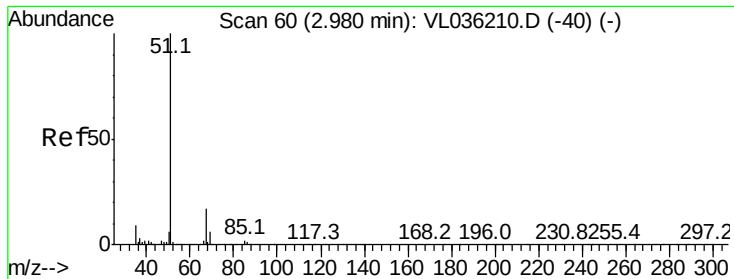
Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Tgt Ion: 85 Resp: 1954731

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 31.7  | 26.4  | 39.6  |





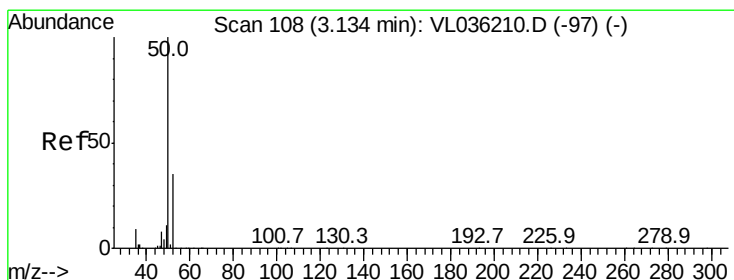
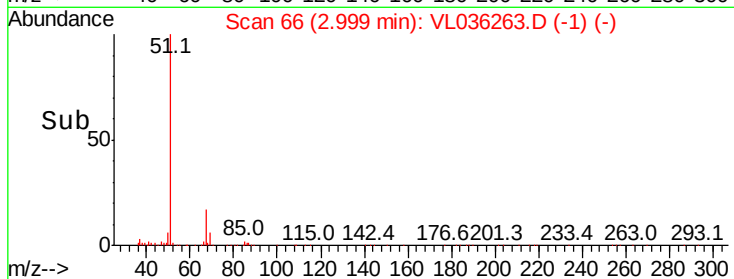
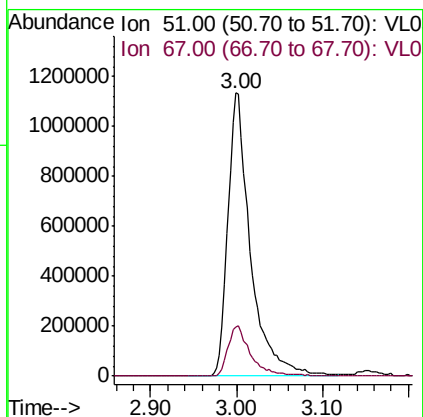
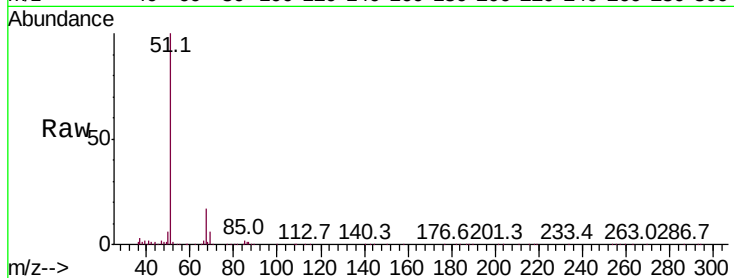
#3  
Chlorodifluoromethane  
Concen: 10.522 ppbv  
RT: 3.00 min Scan# 66  
Delta R.T. 0.02 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion: 51 Resp: 2076109  
Ion Ratio Lower Upper  
51 100  
67 17.9 14.0 21.0

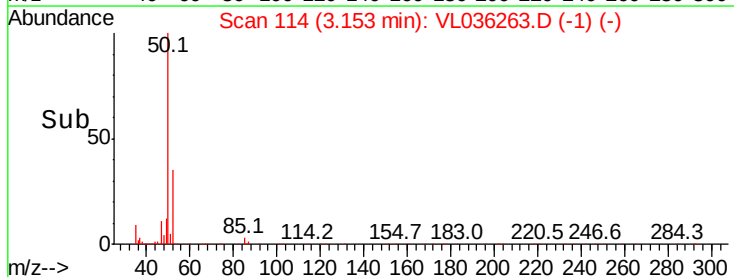
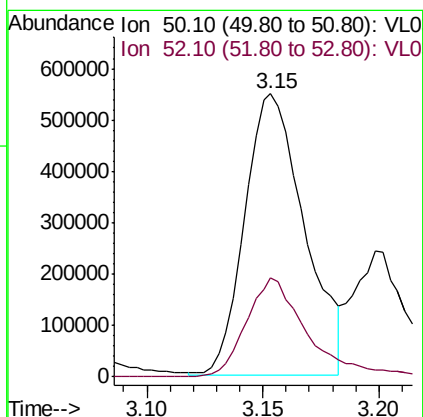
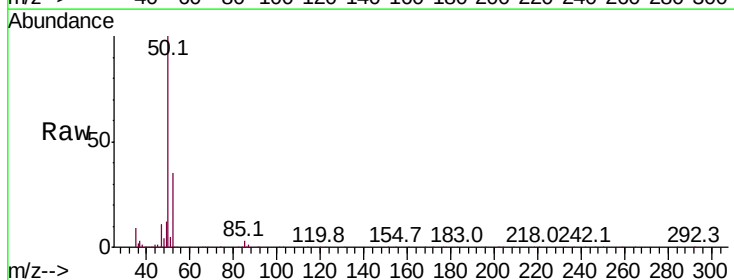
Manual Integrations  
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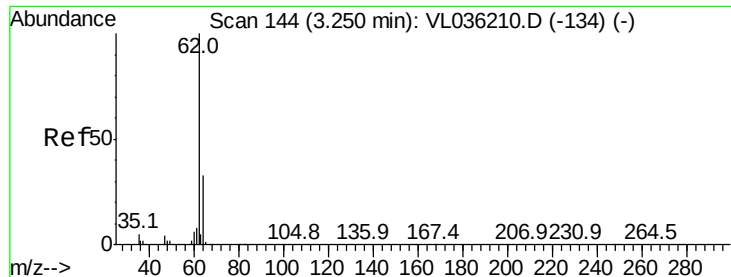
MMDadoda  
1/26/2021 12:58:26 PM



#4  
Chloromethane  
Concen: 10.099 ppbv  
RT: 3.15 min Scan# 114  
Delta R.T. 0.02 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 50 Resp: 984885  
Ion Ratio Lower Upper  
50 100  
52 35.4 27.8 41.8





#5

Vinyl Chloride

Concen: 10.561 ppbv

RT: 3.27 min Scan# 150

Delta R.T. 0.02 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 62 Resp: 974556

Ion Ratio Lower Upper

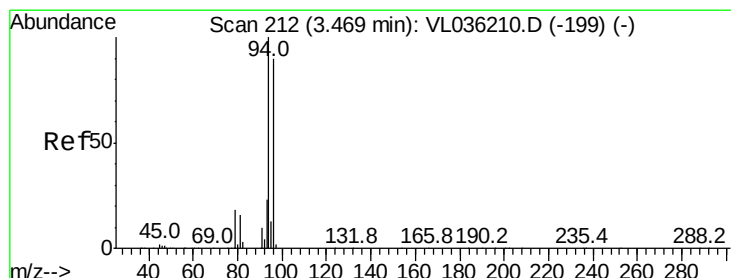
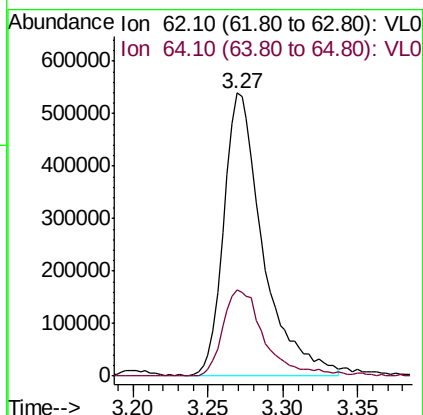
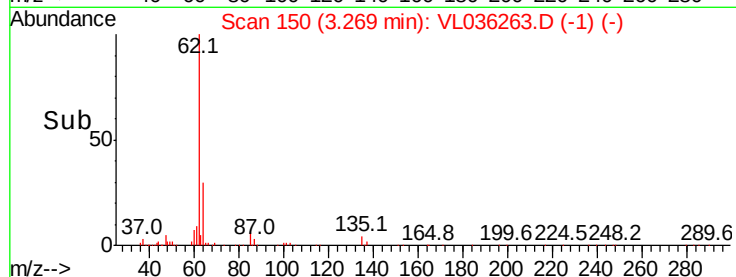
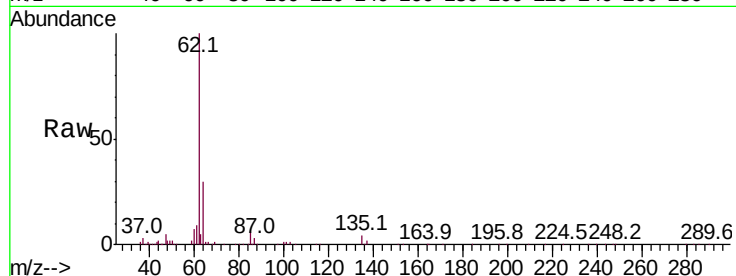
62 100

64 30.4 26.2 39.2

Manual Integrations  
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1/26/2021 12:58:26 PM



#6

Bromomethane

Concen: 10.655 ppbv

RT: 3.49 min Scan# 218

Delta R.T. 0.02 min

Lab File: VL036263.D

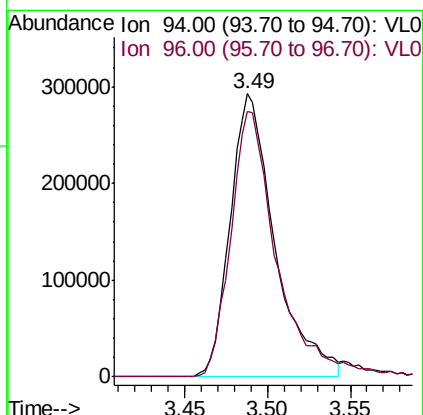
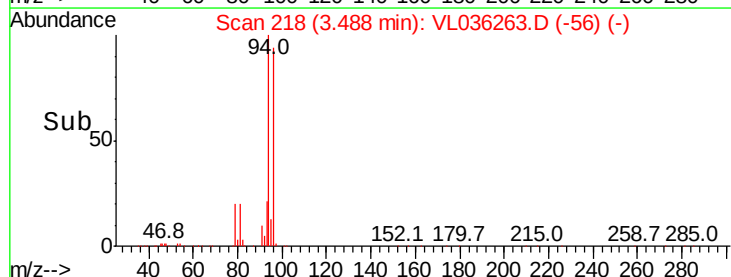
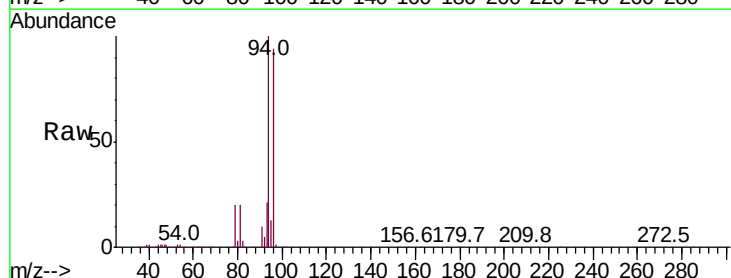
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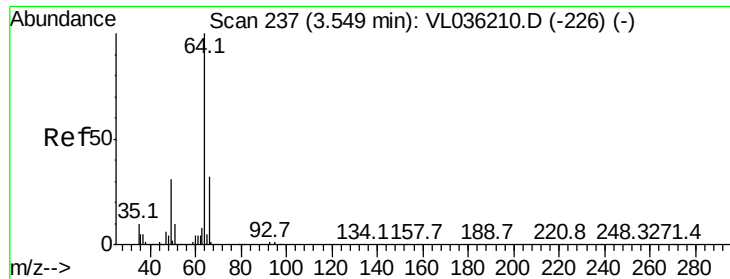
Tgt Ion: 94 Resp: 549726

Ion Ratio Lower Upper

94 100

96 93.8 71.9 107.9





#7

Chloroethane

Concen: 10.885 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 64 Resp: 345928

Ion Ratio Lower Upper

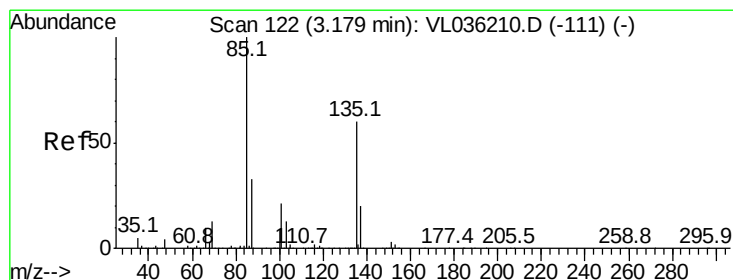
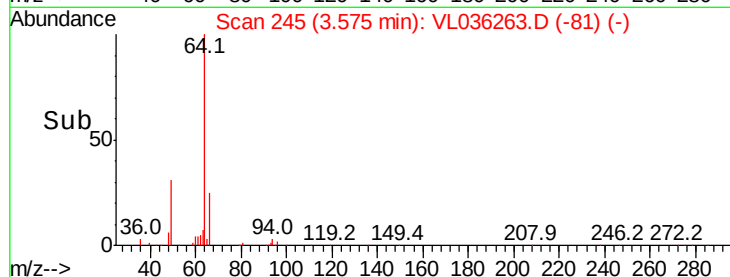
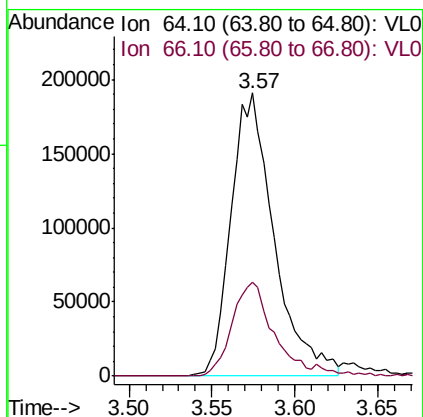
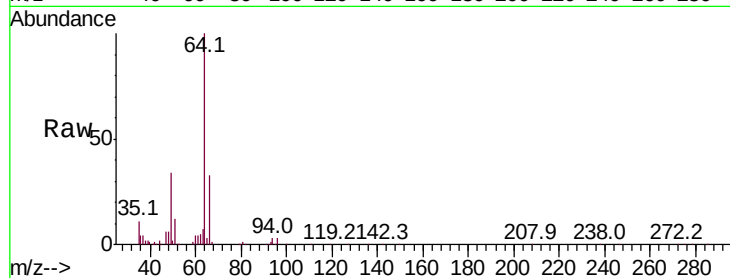
64 100

66 33.3 25.2 37.8

Manual Integrations  
APPROVED

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1/26/2021 12:58:26 PM



#8

Dichlorotetrafluoroethane

Concen: 10.375 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.02 min

Lab File: VL036263.D

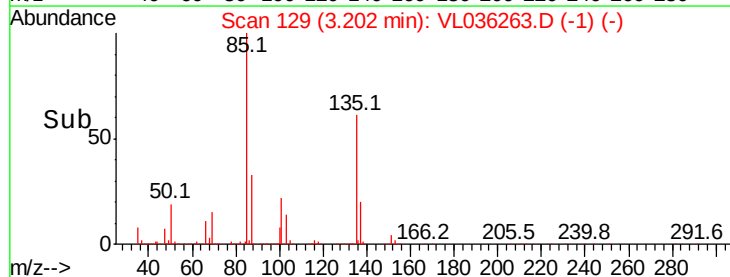
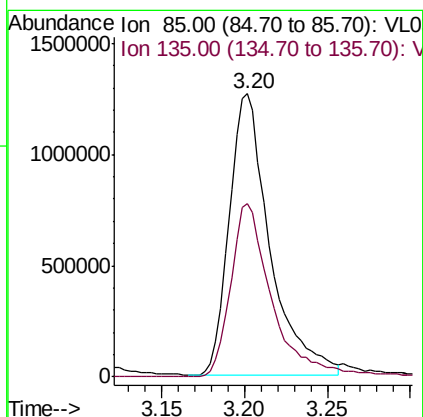
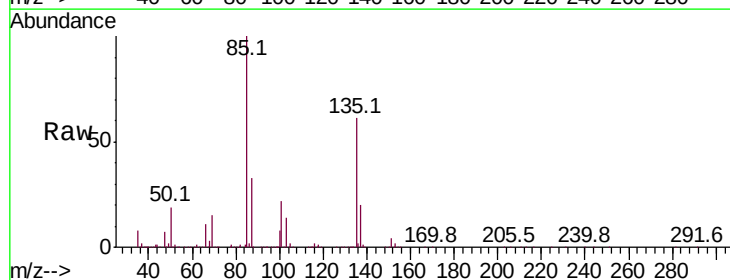
Acq: 22 Jan 2021 11:55

Tgt Ion: 85 Resp: 2164598

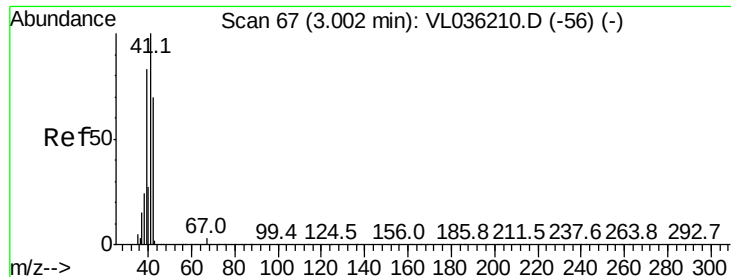
Ion Ratio Lower Upper

85 100

135 63.5 51.5 77.3







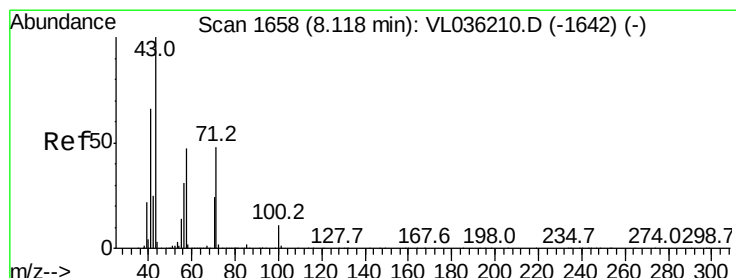
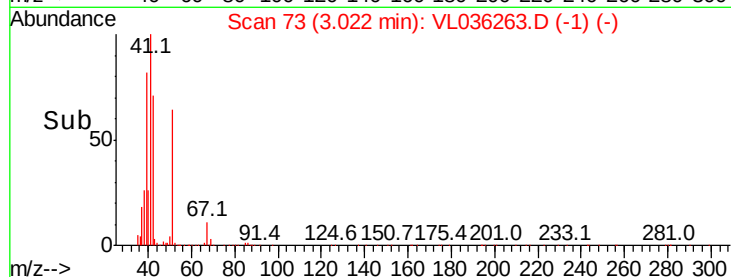
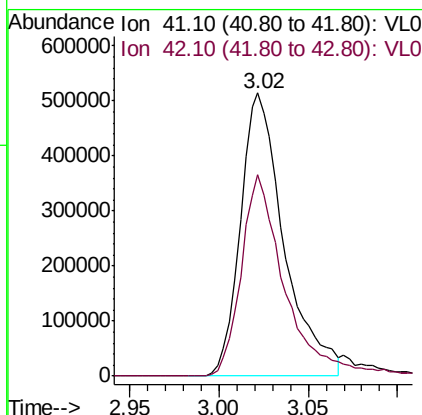
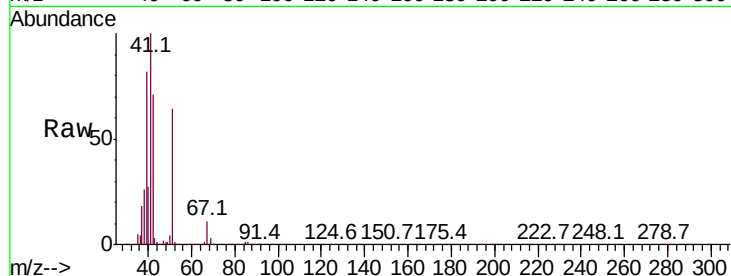
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 Propene  
 Concen: 9.334 ppbv  
 RT: 3.02 min Scan# 73  
 Delta R.T. 0.02 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

Tot Ion: 41 Resp: 877012  
 Ion Ratio Lower Upper  
 41 100  
 42 72.2 57.1 85.7

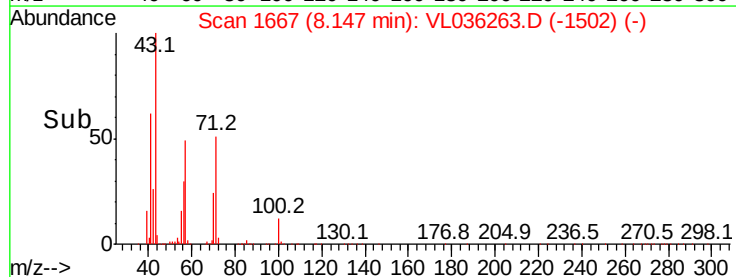
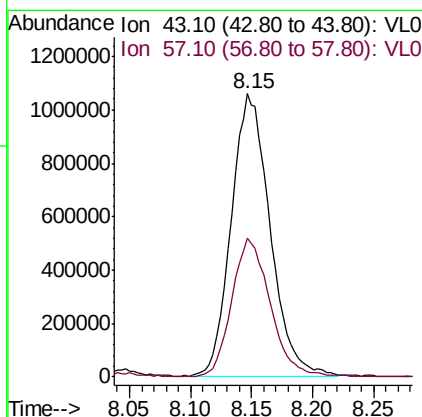
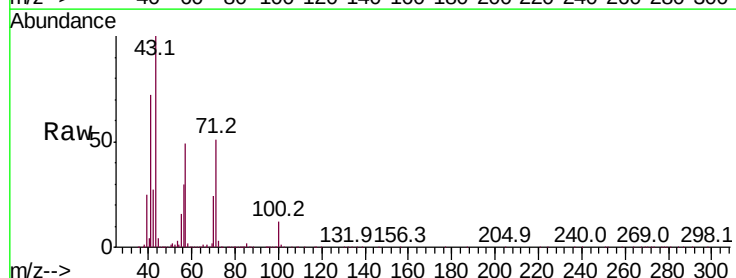
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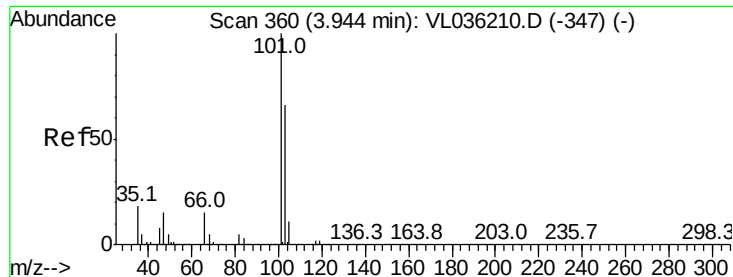


#10  
 Heptane  
 Concen: 9.959 ppbv  
 RT: 8.15 min Scan# 1667  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Tgt Ion: 43 Resp: 2322821  
 Ion Ratio Lower Upper  
 43 100  
 57 48.5 38.1 57.1







#11

Trichlorofluoromethane

Concen: 10.505 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion:101 Resp: 2300034

Ion Ratio Lower Upper

101 100

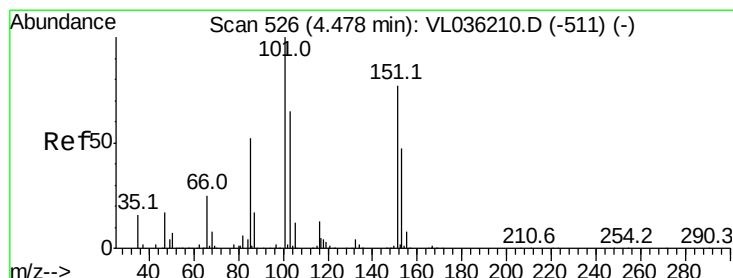
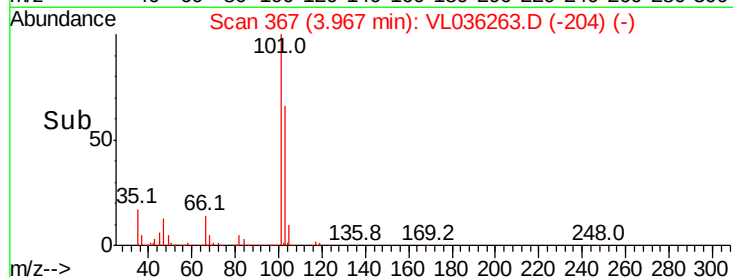
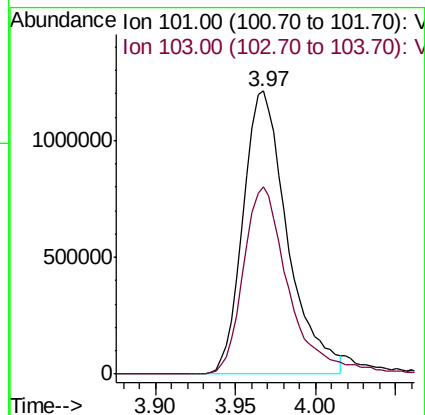
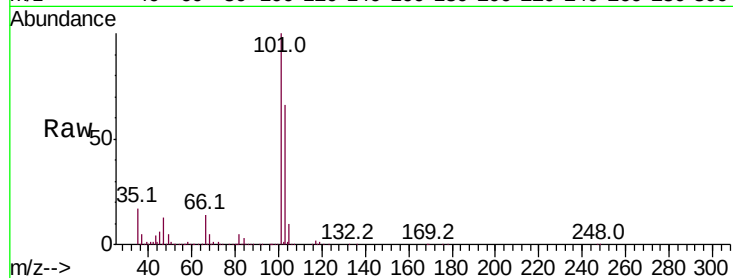
103 66.2 52.6 78.8

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.915 ppbv

RT: 4.51 min Scan# 535

Delta R.T. 0.03 min

Lab File: VL036263.D

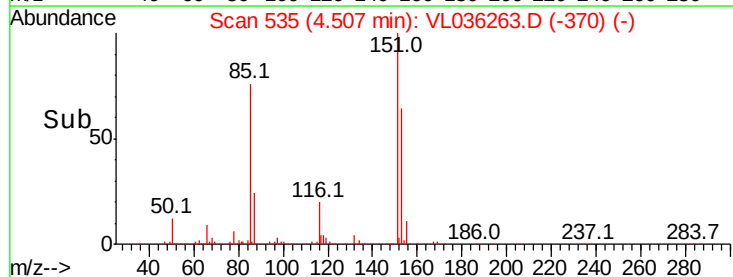
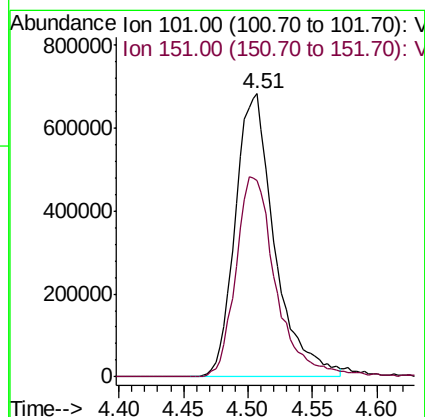
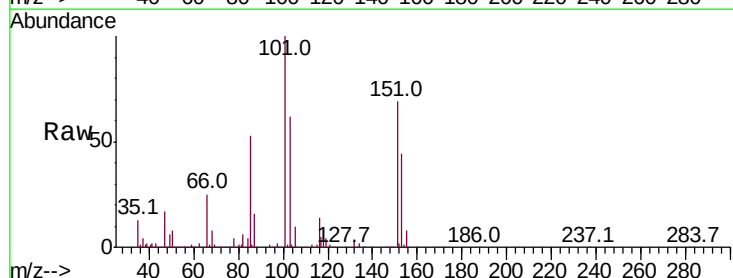
Acq: 22 Jan 2021 11:55

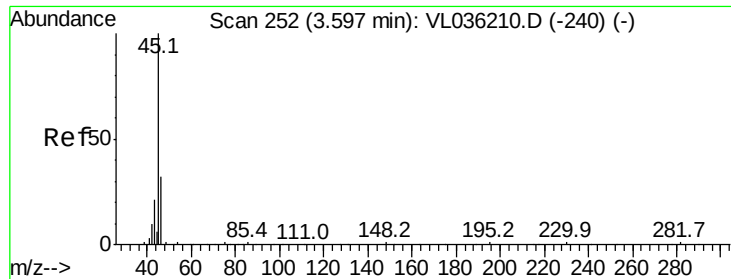
Tgt Ion:101 Resp: 1448819

Ion Ratio Lower Upper

101 100

151 72.6 59.8 89.6





#13

Ethanol

Concen: 10.833 ppbv m

RT: 3.62 min Scan# 260

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 45 Resp: 159827

Ion Ratio Lower Upper

45 100

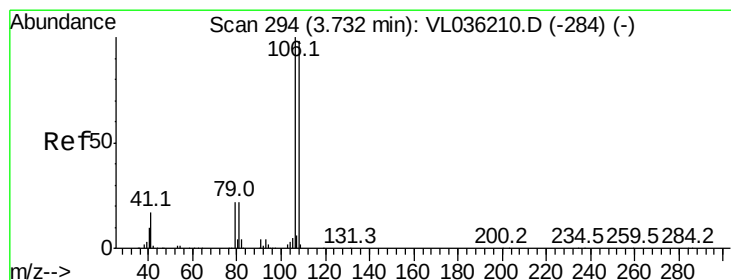
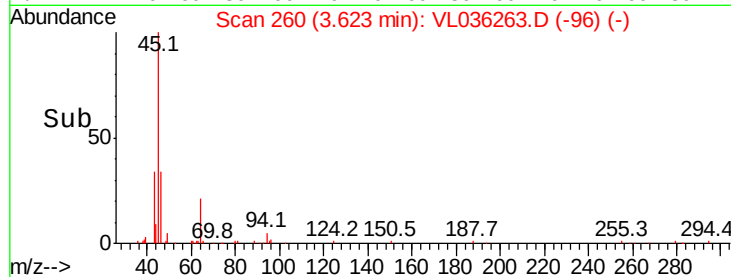
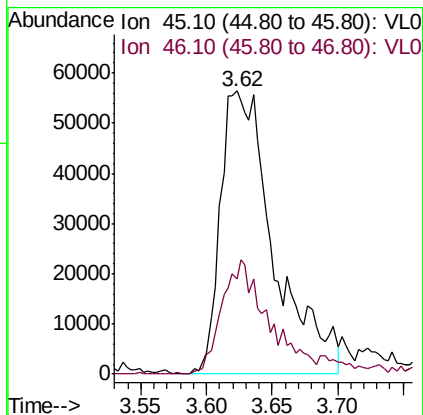
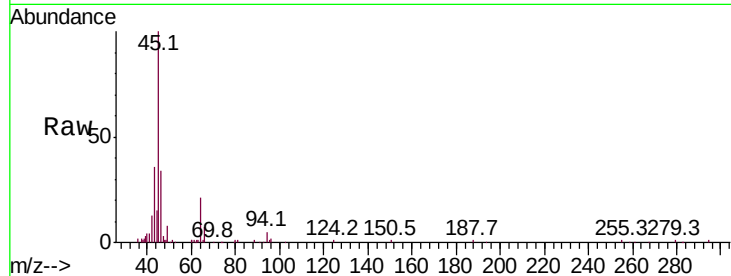
46 38.9 19.2 77.0

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#14

Bromoethene

Concen: 10.391 ppbv

RT: 3.75 min Scan# 301

Delta R.T. 0.02 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

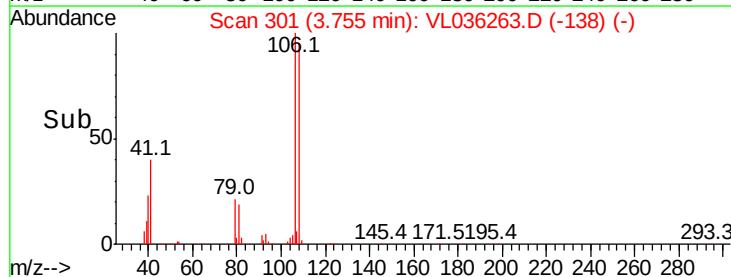
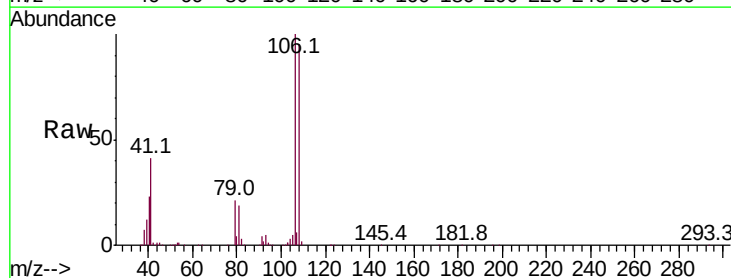
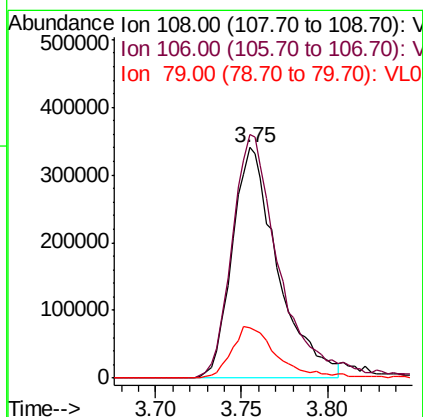
Tgt Ion: 108 Resp: 628049

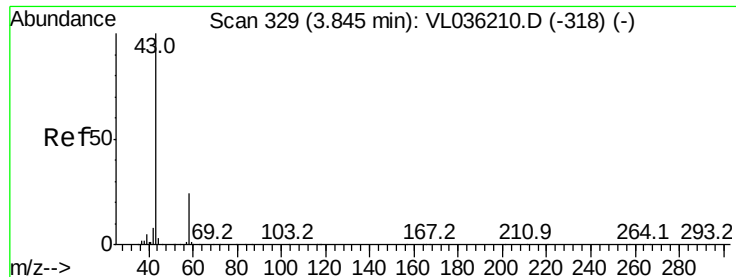
Ion Ratio Lower Upper

108 100

106 112.0 91.4 137.2

79 23.1 18.3 27.5





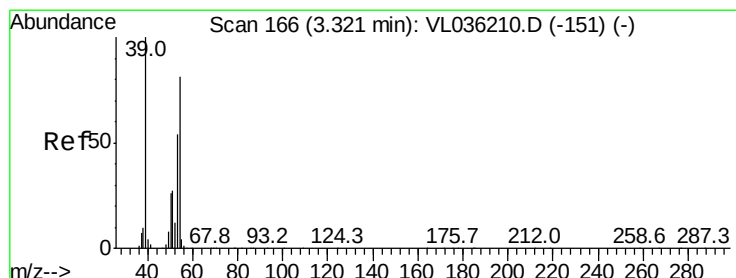
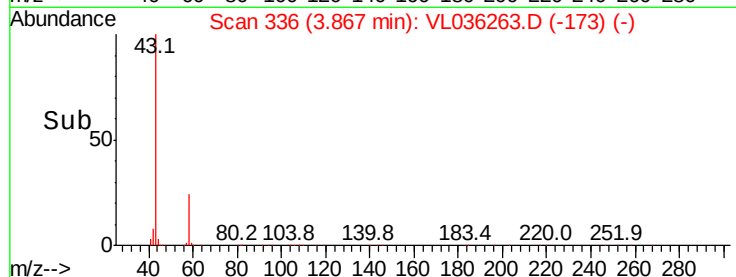
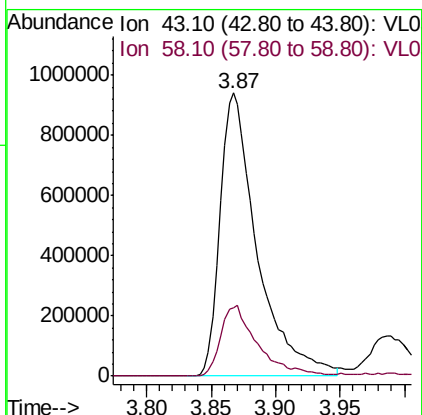
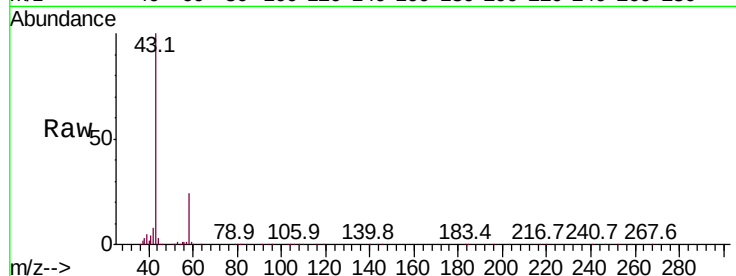
#15  
Acetone  
Concen: 9.560 ppbv  
RT: 3.87 min Scan# 336  
Delta R.T. 0.02 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion: 43 Resp: 1880972  
Ion Ratio Lower Upper  
43 100  
58 24.8 20.9 31.3

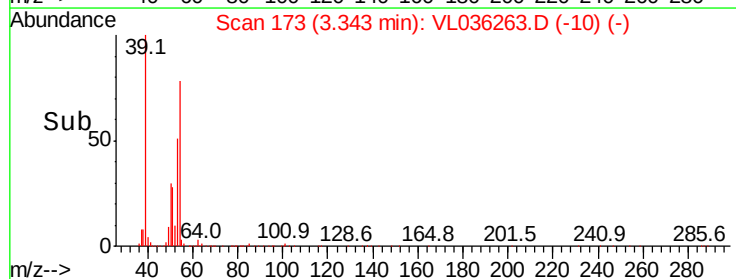
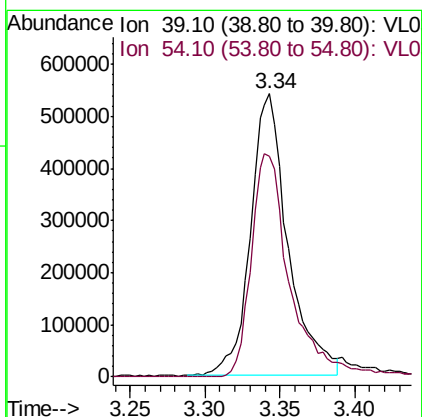
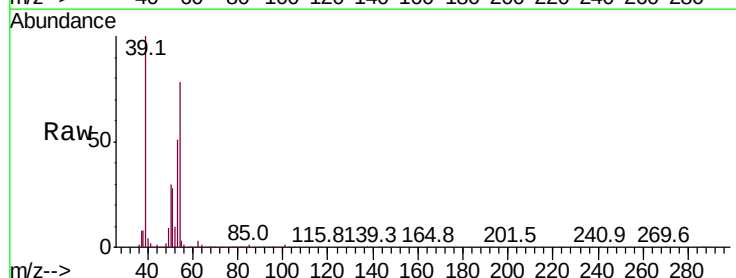
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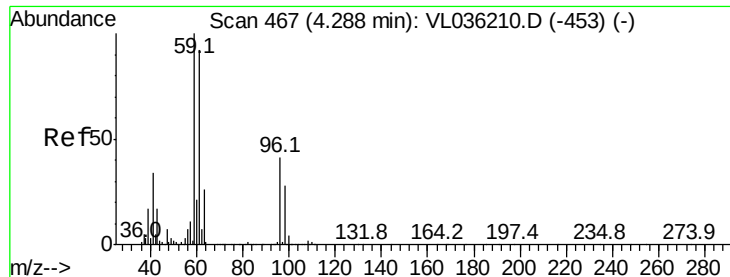
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#16  
1,3-Butadiene  
Concen: 9.873 ppbv  
RT: 3.34 min Scan# 173  
Delta R.T. 0.02 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 39 Resp: 946399  
Ion Ratio Lower Upper  
39 100  
54 83.0 62.5 93.7





#17

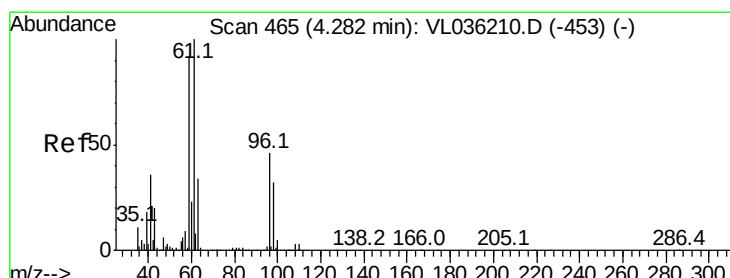
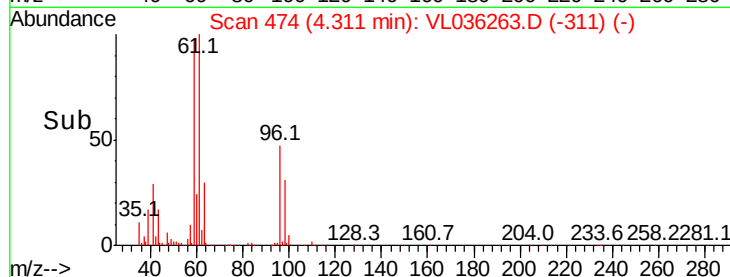
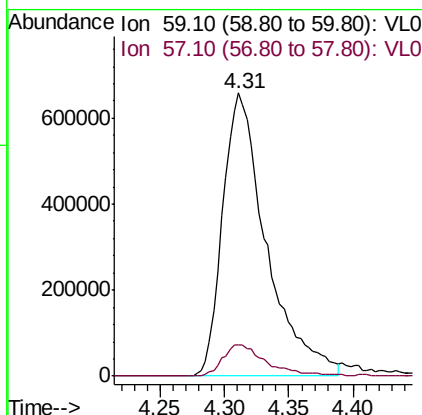
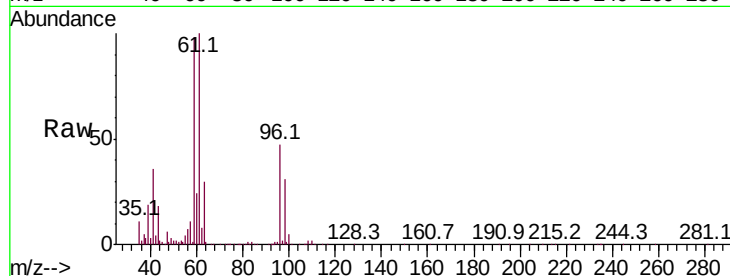
tert-Butyl alcohol  
Concen: 9.536 ppbv  
RT: 4.31 min Scan# 474  
Delta R.T. 0.02 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion: 59 Resp: 1548389  
Ion Ratio Lower Upper  
59 100  
57 11.2 9.2 13.8

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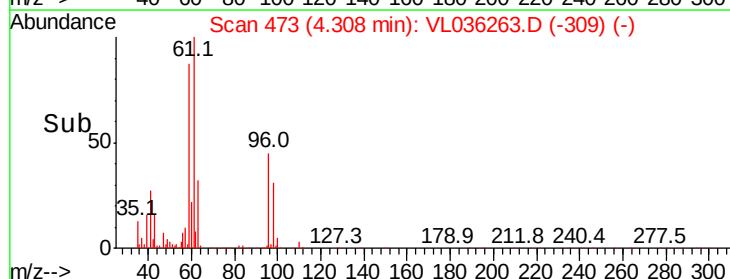
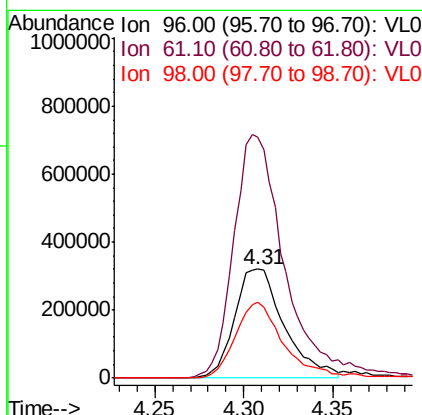
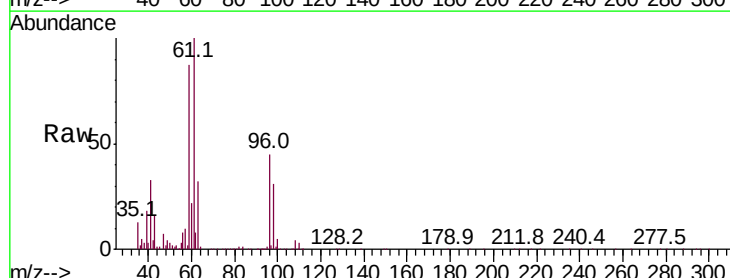
MMDadoda  
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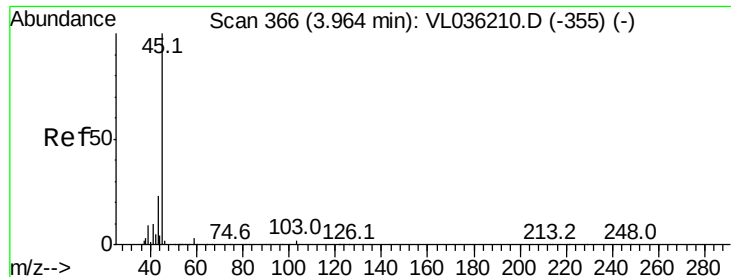


#18

1,1-Dichloroethene  
Concen: 10.055 ppbv  
RT: 4.31 min Scan# 473  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 96 Resp: 618798  
Ion Ratio Lower Upper  
96 100  
61 221.4 173.4 260.0  
98 69.3 54.9 82.3





#19

Isopropyl Alcohol

Concen: 9.125 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleID :

VL0122ABS01

Tot Ion: 45 Resp: 1082376

Ion Ratio Lower Upper

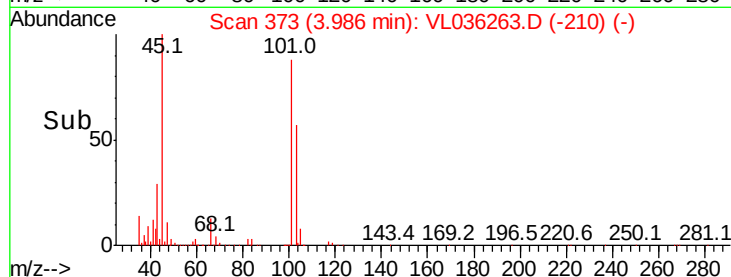
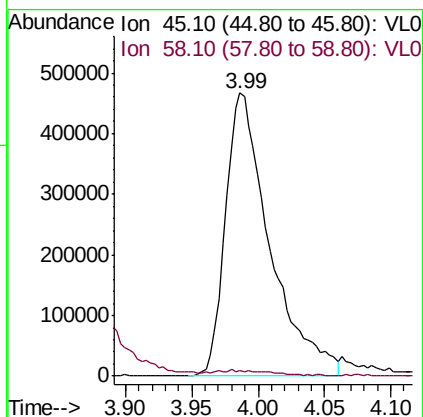
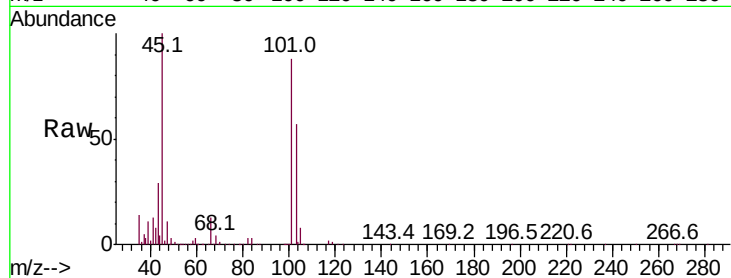
45 100

58 2.8 1.9 2.9

Manual Integrations  
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#20

Methylene Chloride

Concen: 9.246 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Tgt Ion: 84 Resp: 580666

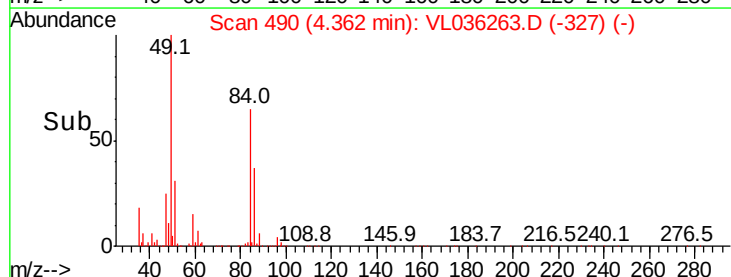
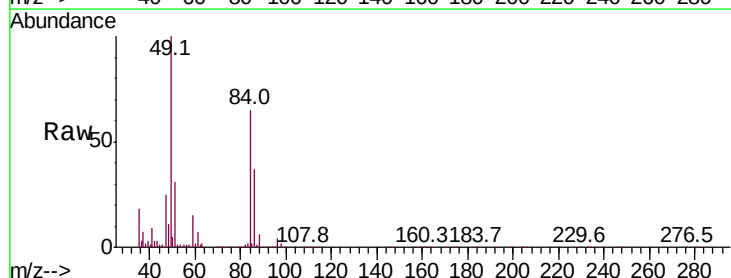
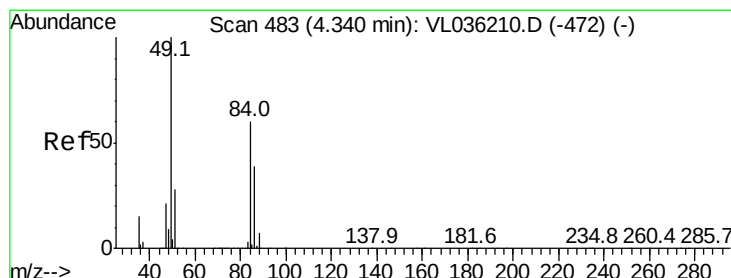
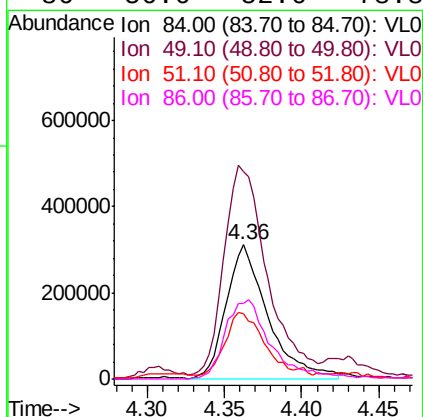
Ion Ratio Lower Upper

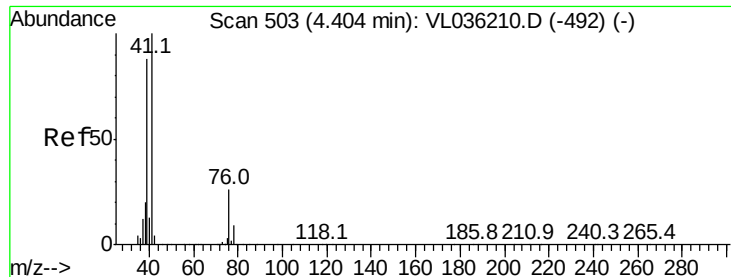
84 100

49 152.5 134.1 201.1

51 46.3 37.4 56.0

86 56.6 52.6 78.8





#21

Allvl Chloride

Concen: 10.390 ppbv

RT: 4.43 min Scan# 511

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 41 Resp: 1112748

Ion Ratio Lower Upper

41 100

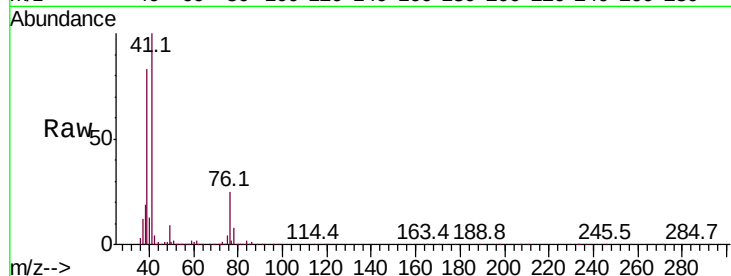
76 27.2 20.5 30.7

39 92.6 67.8 101.8

Manual Integrations  
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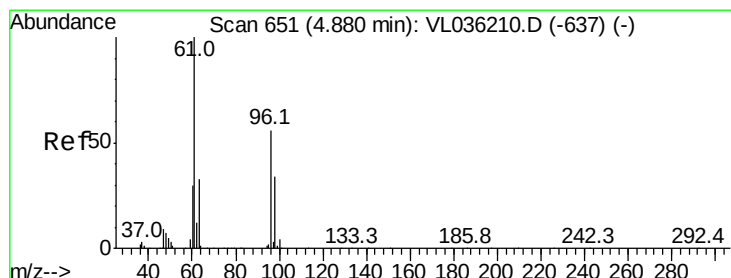
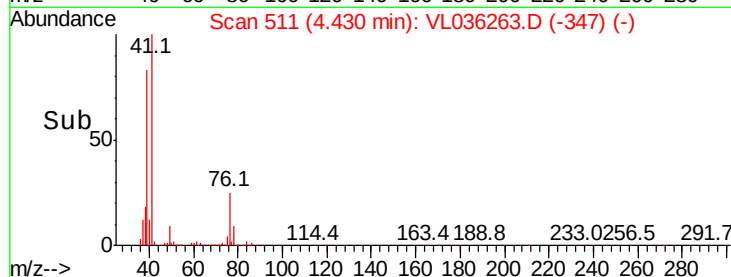
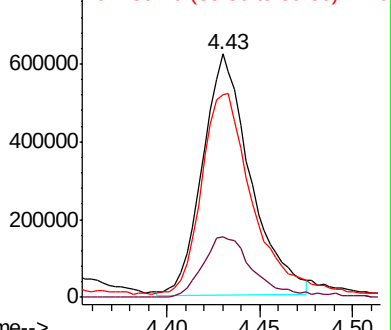


Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 11.022 ppbv

RT: 4.91 min Scan# 659

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

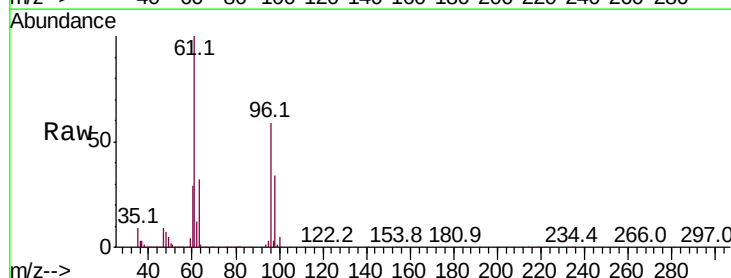
Tgt Ion: 96 Resp: 626688

Ion Ratio Lower Upper

96 100

61 169.0 142.7 214.1

98 57.7 48.7 73.1

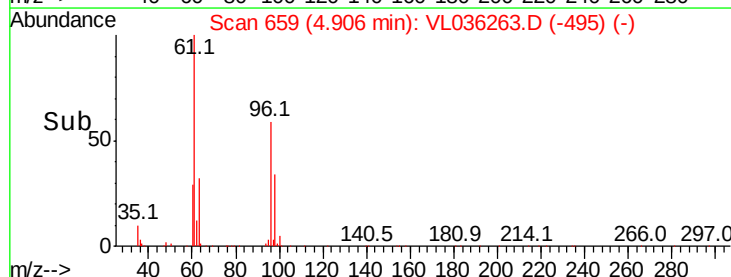
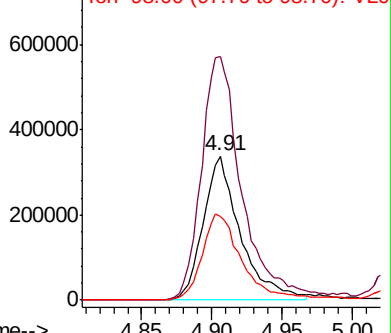


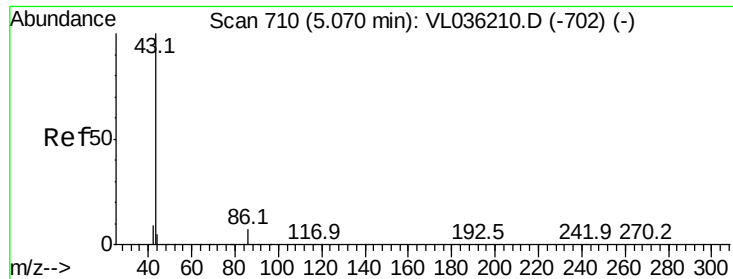
Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.997 ppbv

RT: 5.10 min Scan# 718

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 43 Resp: 2621951

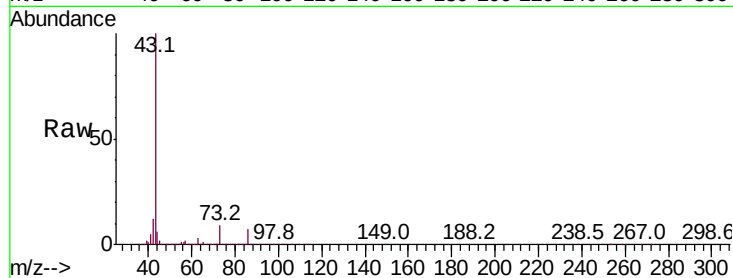
Ion Ratio Lower Upper

|    |      |     |      |
|----|------|-----|------|
| 43 | 100  |     |      |
| 86 | 7.0  | 4.9 | 7.3  |
| 42 | 11.6 | 7.8 | 11.6 |
| 44 | 5.8  | 3.7 | 5.5  |

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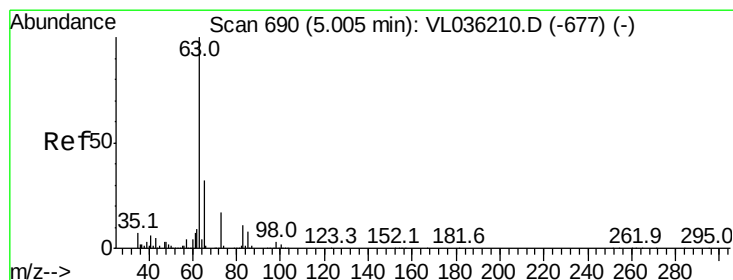
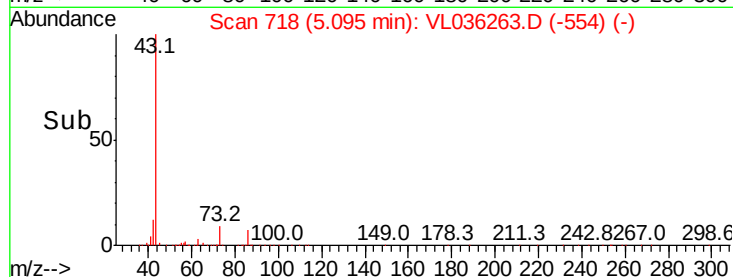
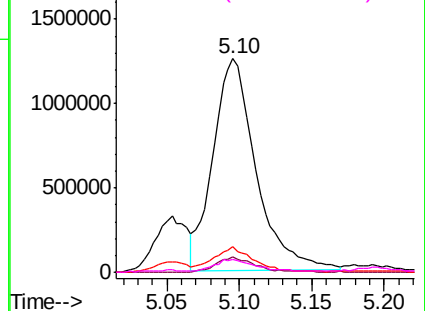
Abundance

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: 10.605 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.03 min

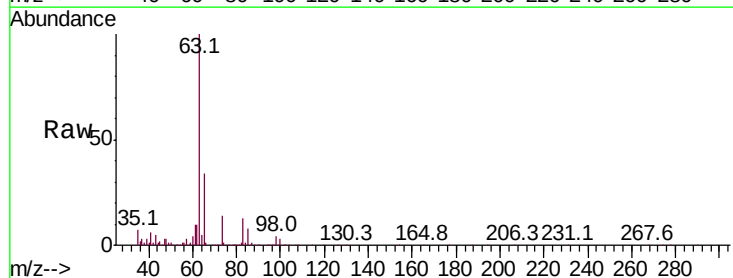
Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Tgt Ion: 63 Resp: 1831586

Ion Ratio Lower Upper

|     |     |     |     |
|-----|-----|-----|-----|
| 63  | 100 |     |     |
| 98  | 4.2 | 1.7 | 5.1 |
| 100 | 2.8 | 1.1 | 3.1 |

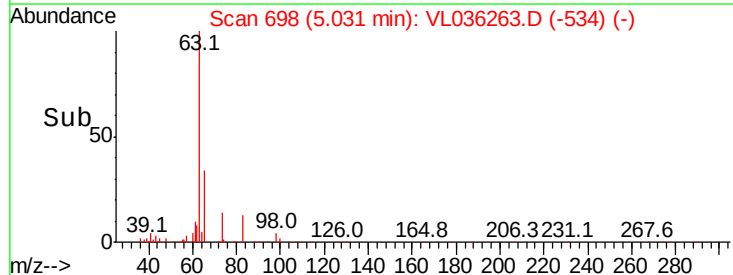
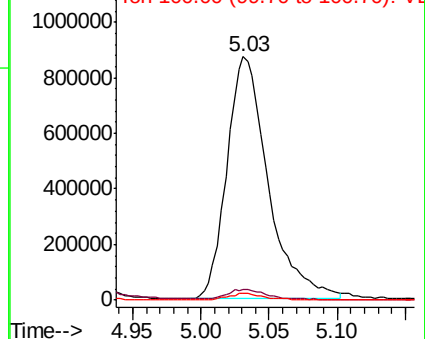


Abundance

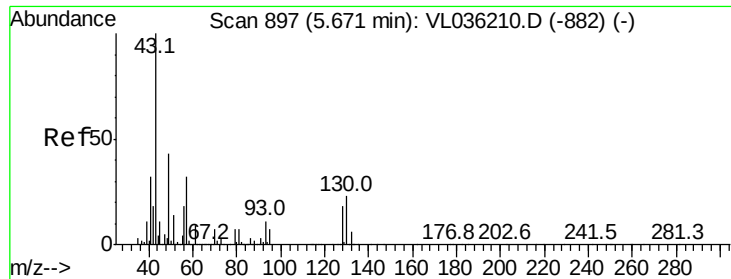
Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0







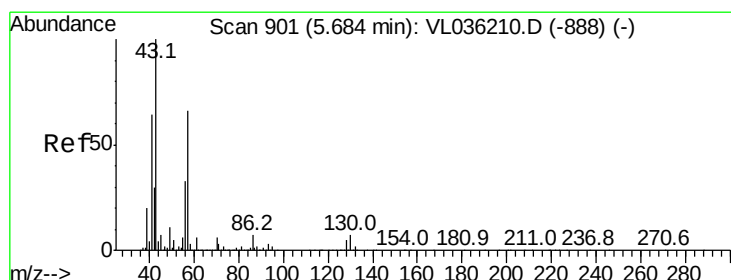
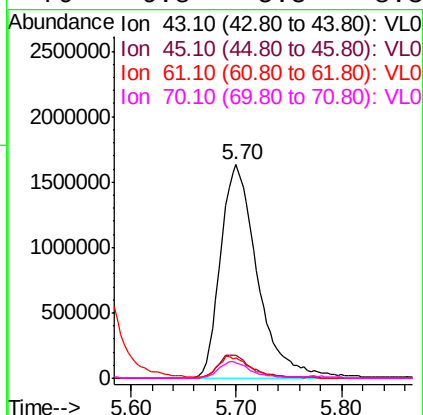
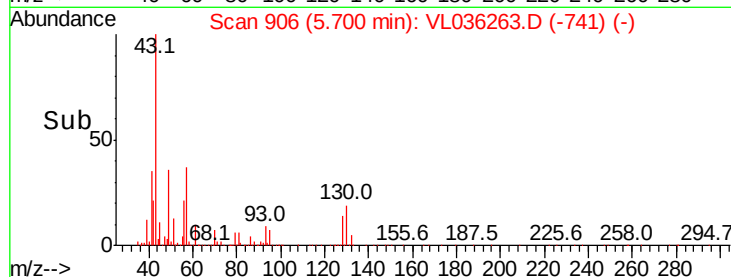
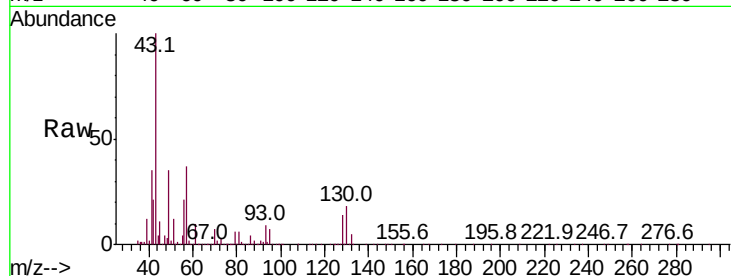
#25  
Ethyl Acetate  
Concen: 9.970 ppbv  
RT: 5.70 min Scan# 906  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

| Tot Ion | 43   | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 45      | 10.2 | 8.3   | 12.5  |       |
| 61      | 9.2  | 7.4   | 11.2  |       |
| 70      | 6.8  | 5.5   | 8.3   |       |

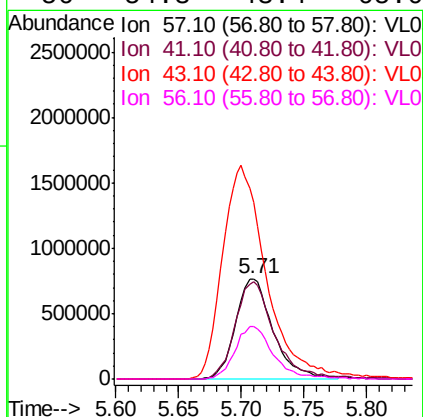
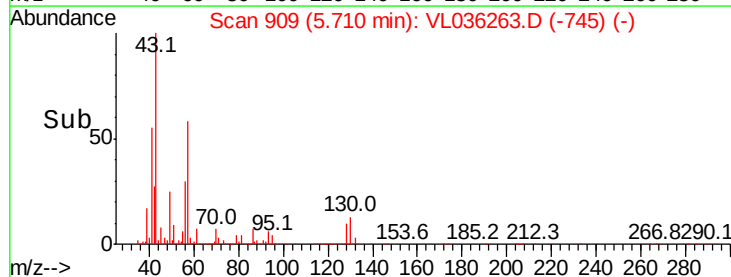
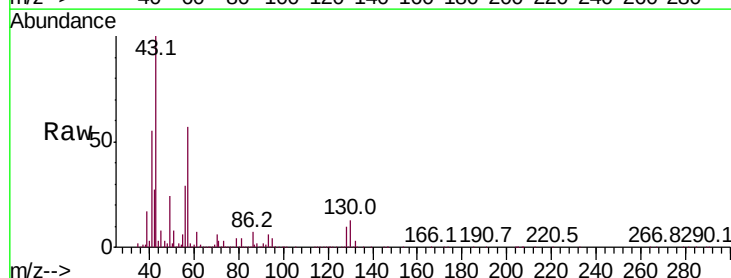
Manual Integrations  
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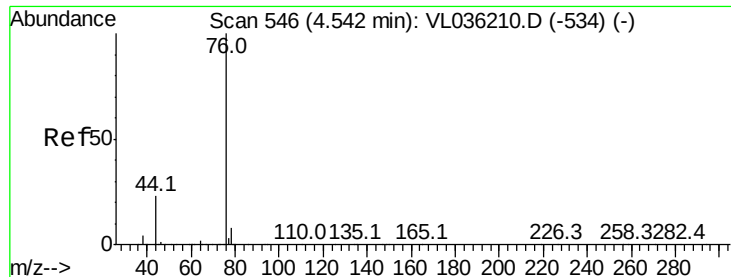
MMDadoda  
1/26/2021 12:58:26 PM



#26  
Hexane  
Concen: 9.691 ppbv  
RT: 5.71 min Scan# 909  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

| Tgt Ion | 57    | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   |       |       |       |
| 41      | 102.7 | 83.0  | 124.6 |       |
| 43      | 250.2 | 202.4 | 303.6 |       |
| 56      | 54.3  | 43.4  | 65.0  |       |





#27

Carbon Disulfide

Concen: 12.450 ppbv

RT: 4.57 min Scan# 554

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

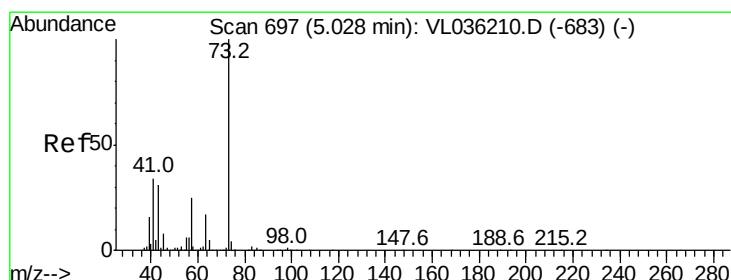
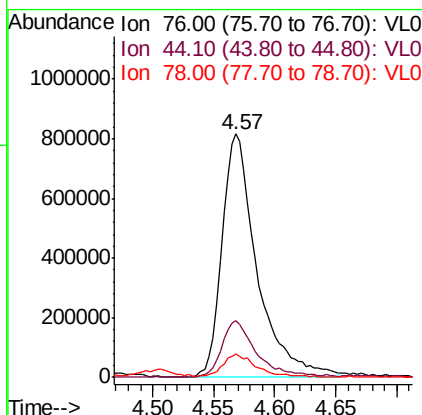
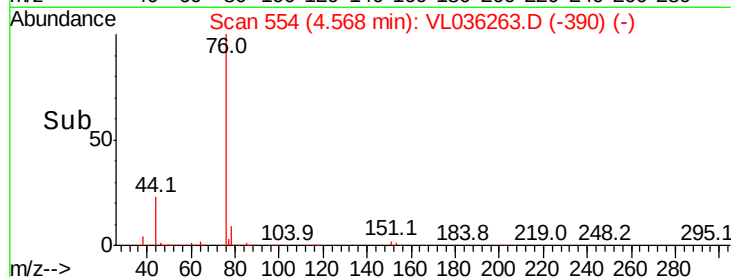
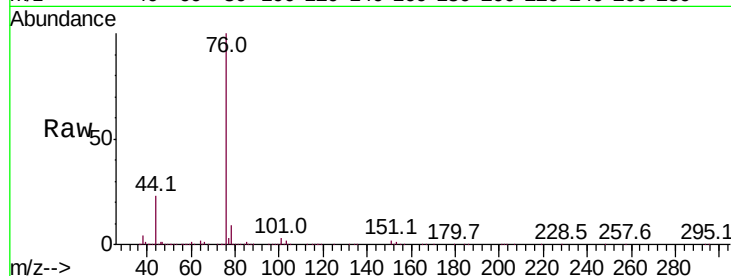
Instrument :  
MSVOA\_L

ClientSampleId :  
VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 22.8  | 19.0  | 28.6  |
| 78      | 9.4   | 8.0   | 12.0  |

Manual Integrations  
APPROVED

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1/26/2021 12:58:26 PM



#28

Methyl tert-Butyl Ether

Concen: 10.287 ppbv

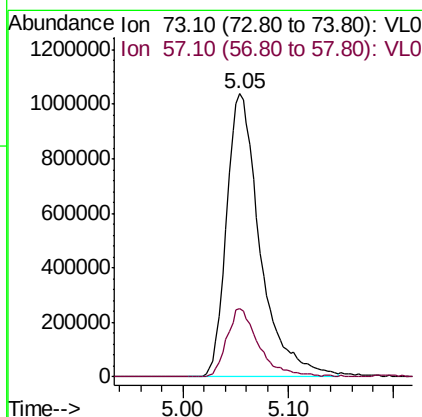
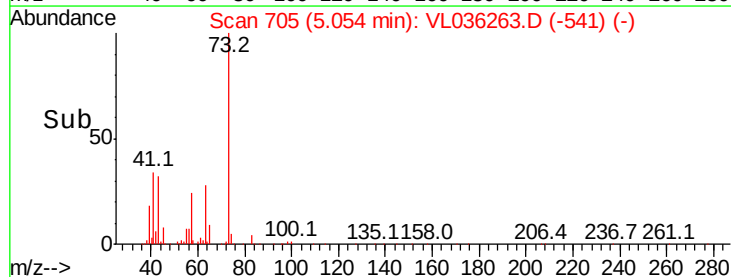
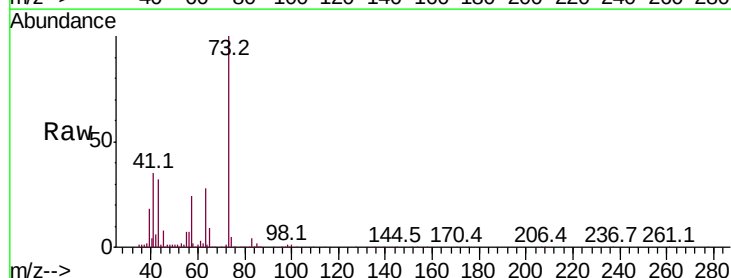
RT: 5.05 min Scan# 705

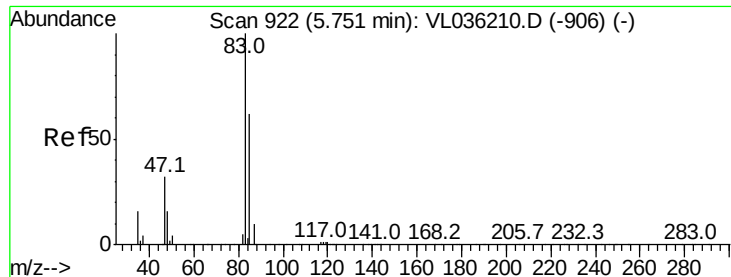
Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 23.3  | 20.4  | 30.6  |





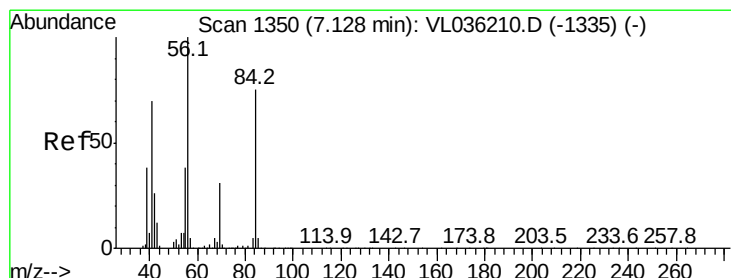
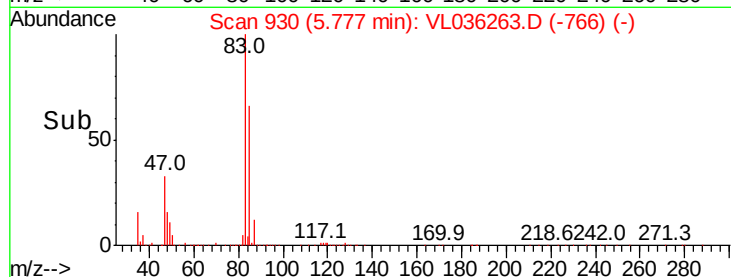
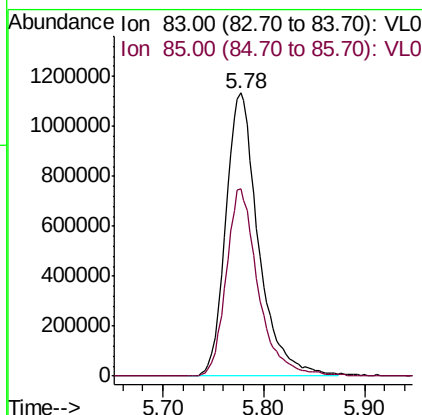
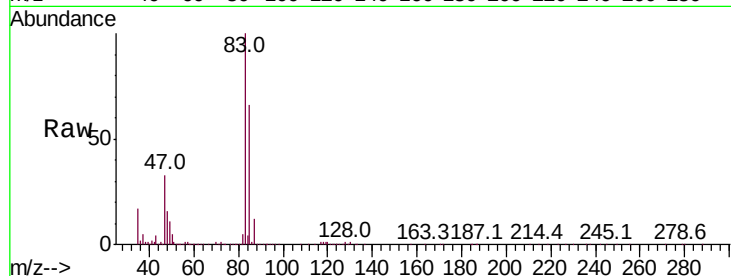
#29  
Chloroform  
Concen: 10.880 ppbv  
RT: 5.78 min Scan# 930  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion: 83 Resp: 2562103  
Ion Ratio Lower Upper  
83 100  
85 66.0 49.3 73.9

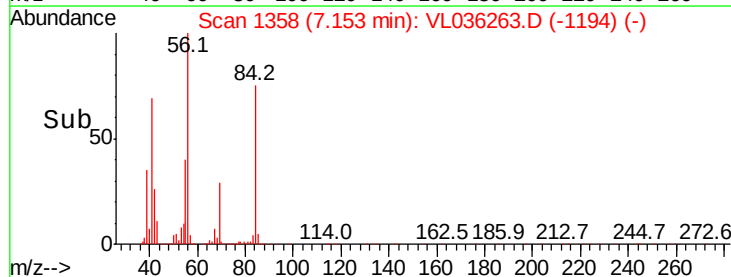
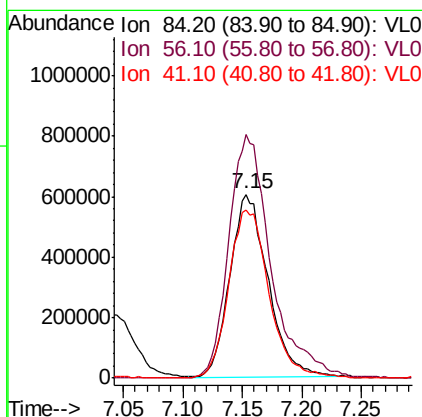
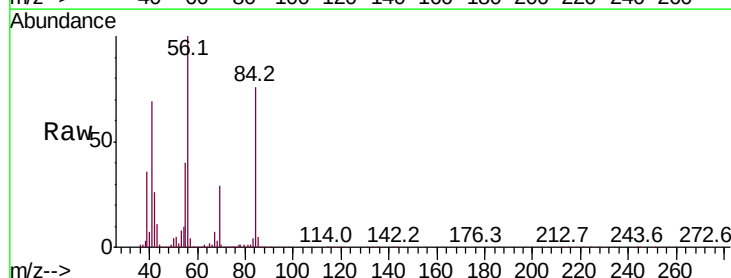
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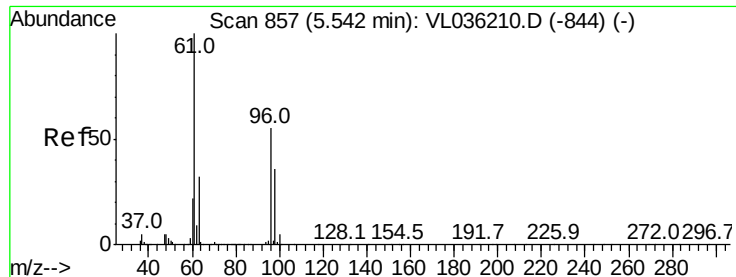
MMDadoda  
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#30  
Cyclohexane  
Concen: 10.695 ppbv  
RT: 7.15 min Scan# 1358  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 84 Resp: 1344146  
Ion Ratio Lower Upper  
84 100  
56 148.2 119.4 179.0  
41 97.5 79.4 119.0





#31

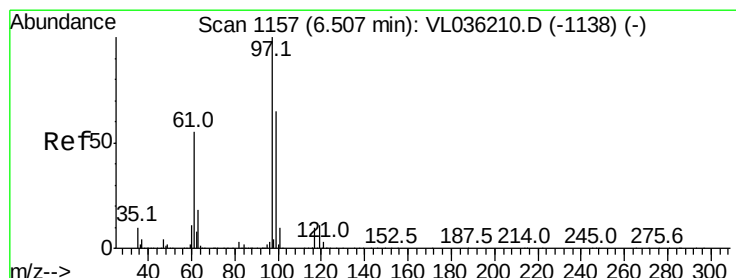
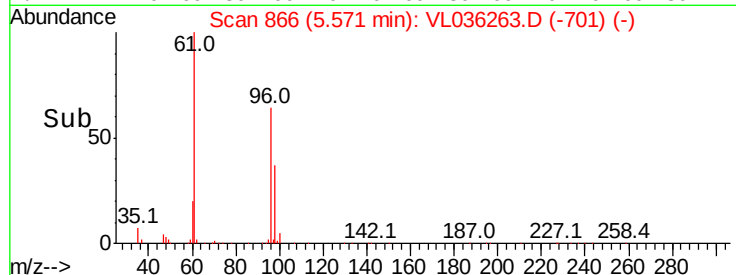
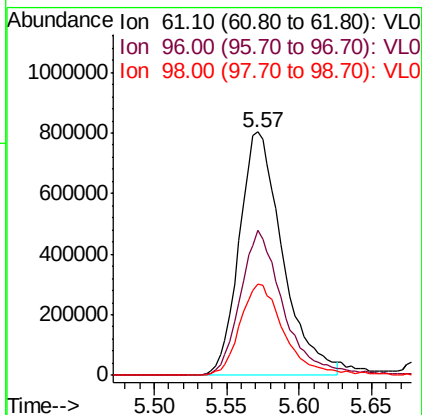
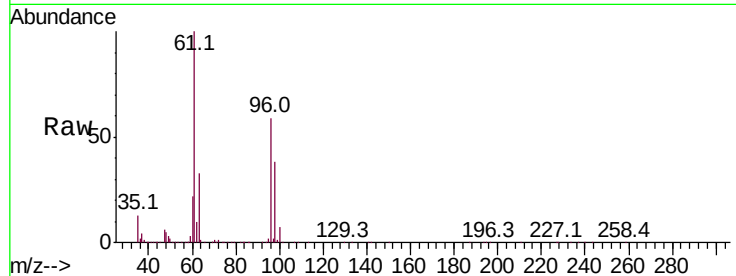
cis-1,2-Dichloroethene  
Concen: 10.620 ppbv  
RT: 5.57 min Scan# 866  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 59.4  | 44.1  | 66.1  |
| 98      | 37.7  | 28.6  | 42.8  |

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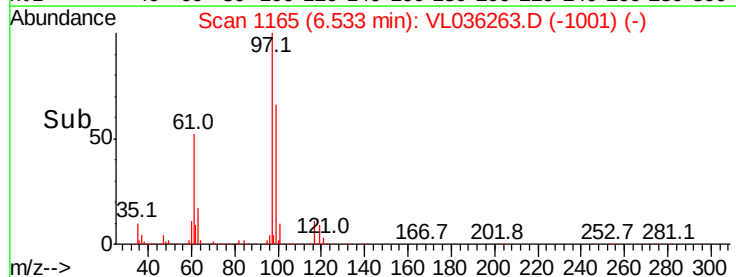
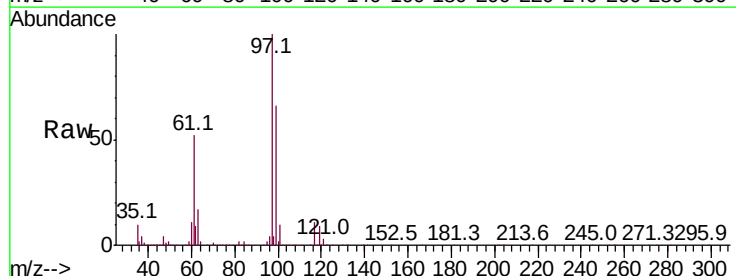
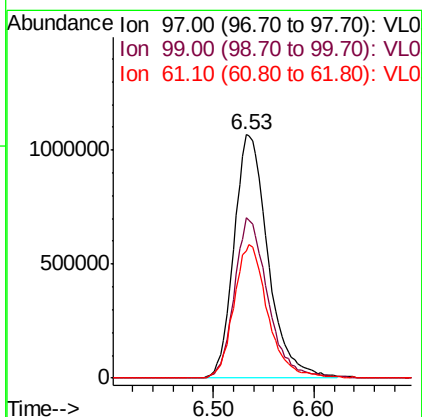
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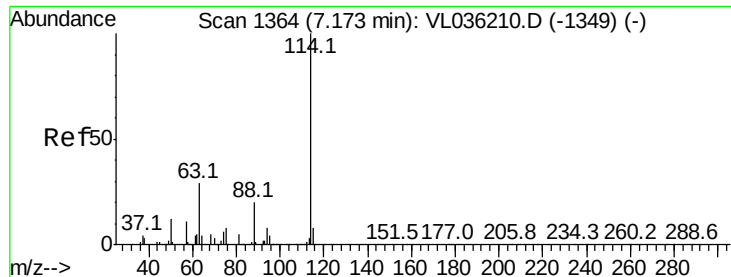


#32

1,1,1-Trichloroethane  
Concen: 10.979 ppbv  
RT: 6.53 min Scan# 1165  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.0  | 52.0  | 78.0  |
| 61      | 55.1  | 43.6  | 65.4  |





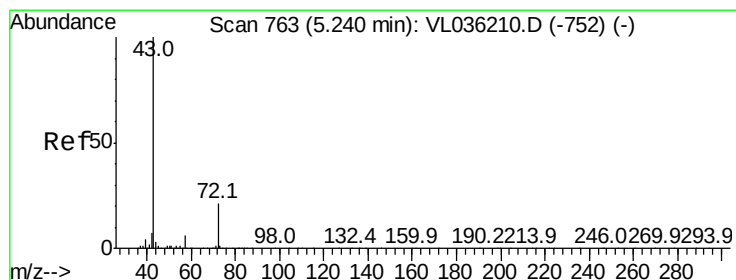
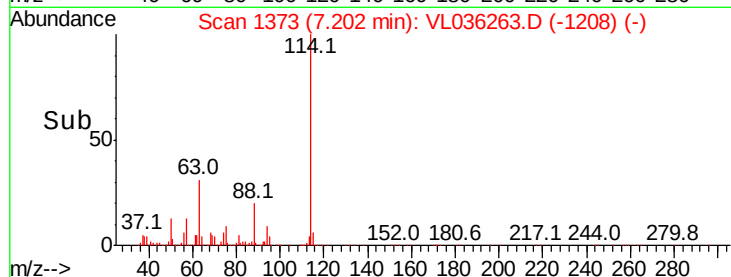
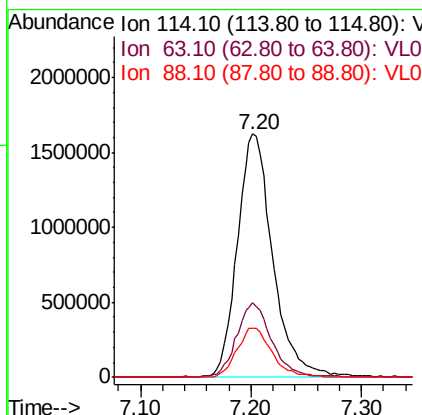
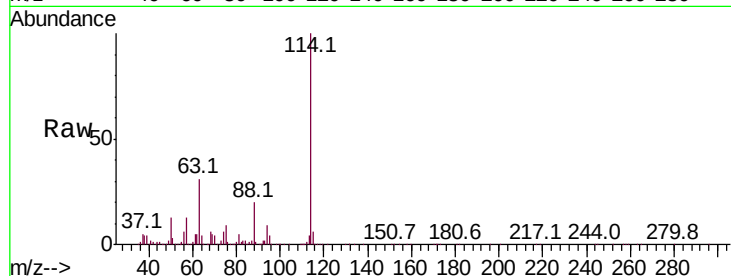
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.20 min Scan# 1373  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 30.8  | 24.7  | 37.1  |
| 88      | 20.5  | 16.6  | 24.8  |

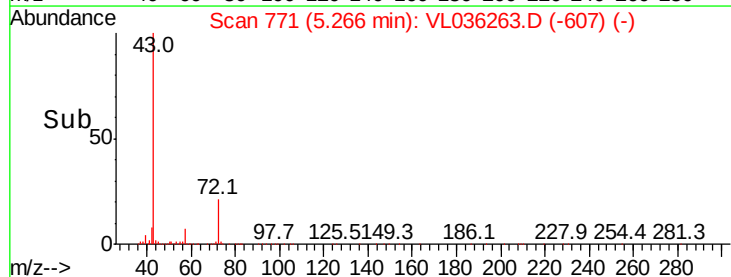
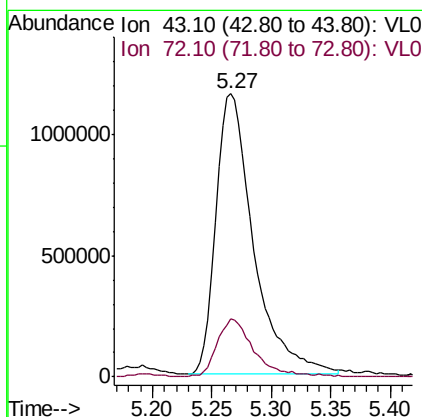
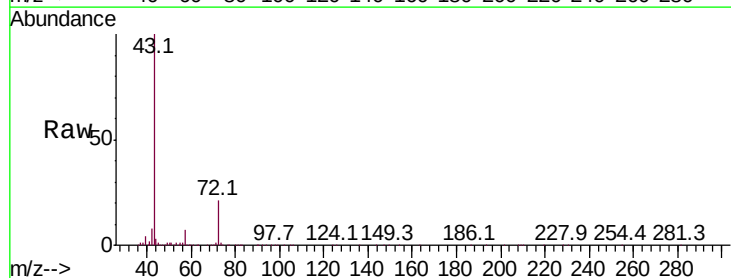
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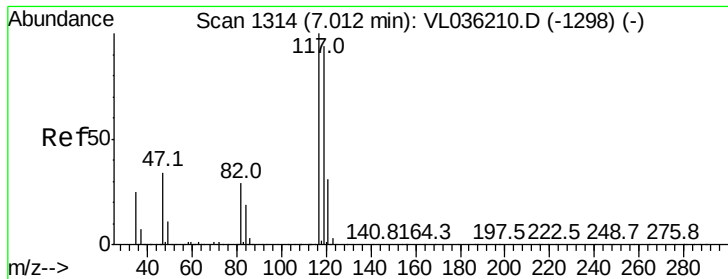
MMDadoda  
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#34  
 2-Butanone  
 Concen: 9.580 ppbv  
 RT: 5.27 min Scan# 771  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 20.4  | 16.1  | 24.1  |





#35

Carbon Tetrachloride

Concen: 11.139 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion:117 Resp: 2531508

Ion Ratio Lower Upper

117 100

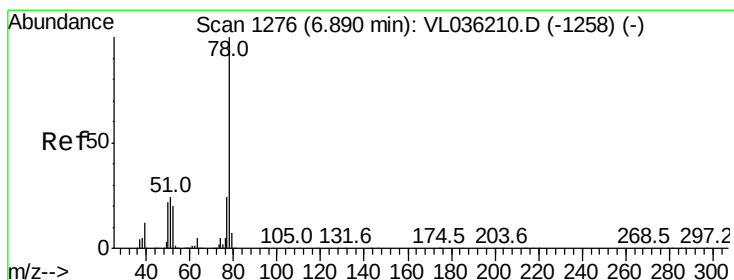
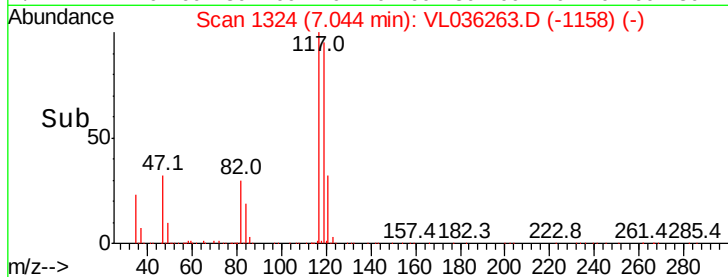
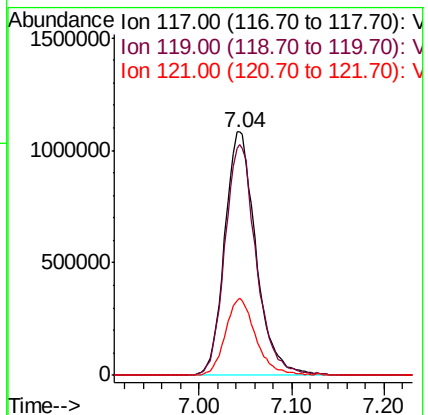
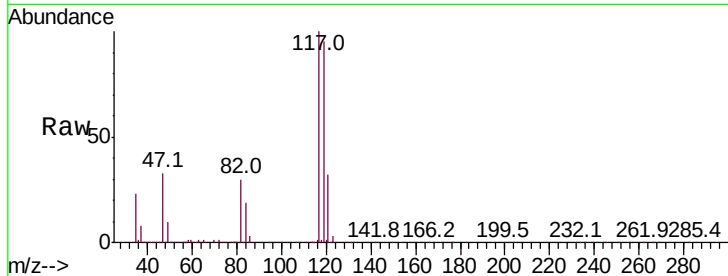
119 94.9 74.9 112.3

121 31.8 25.0 37.6

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#36

Benzene

Concen: 10.035 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

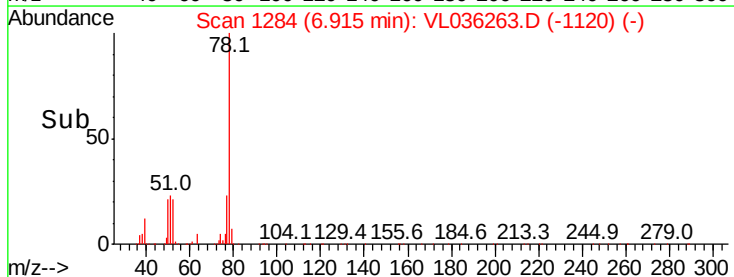
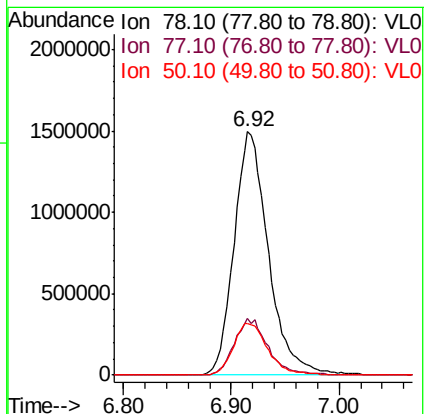
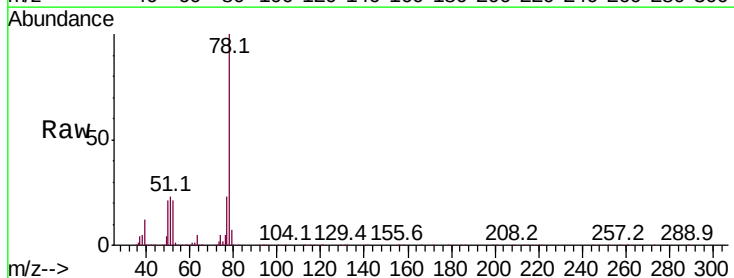
Tgt Ion: 78 Resp: 3307362

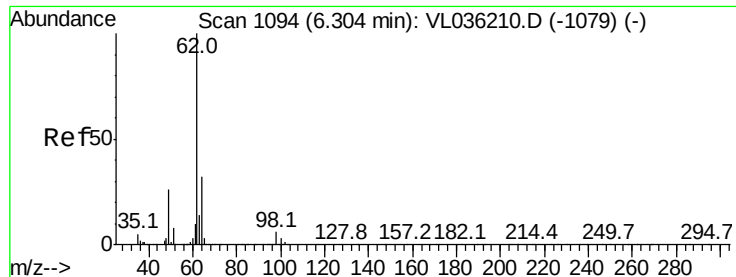
Ion Ratio Lower Upper

78 100

77 23.0 19.4 29.0

50 21.2 17.4 26.2





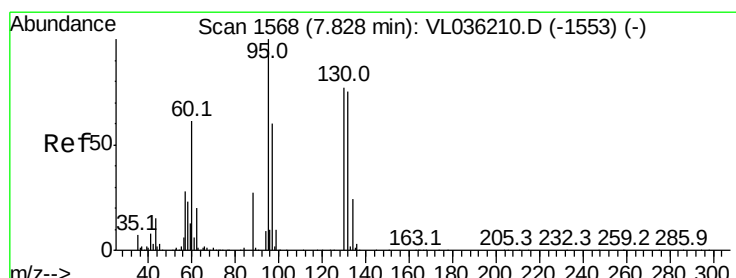
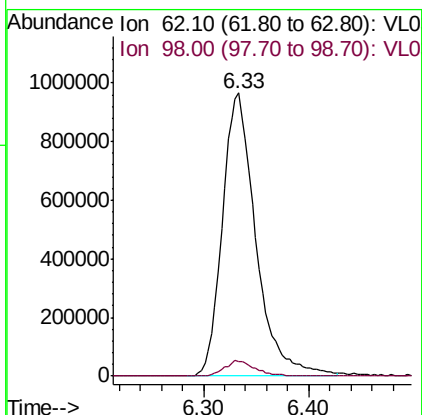
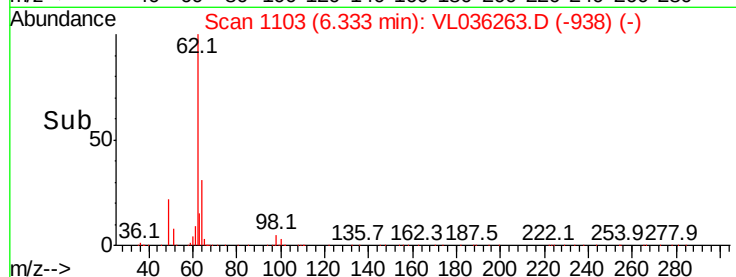
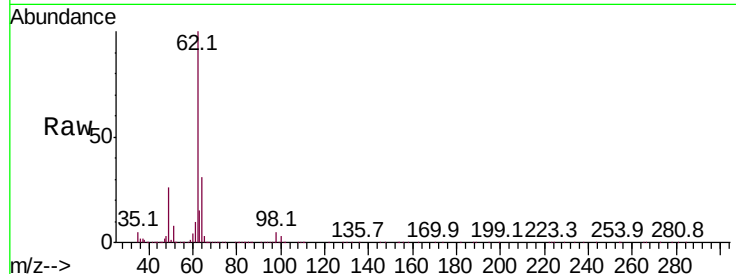
#37  
 1,2-Dichloroethane  
 Concen: 10.673 ppbv  
 RT: 6.33 min Scan# 1103  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 5.3   | 4.4   | 6.6   |

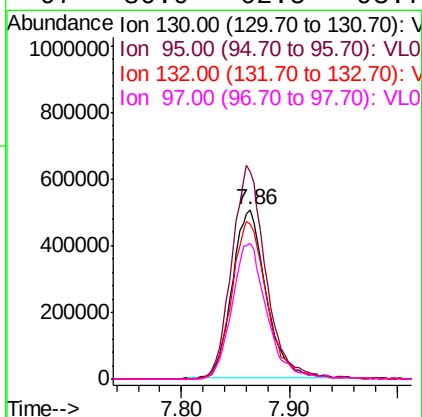
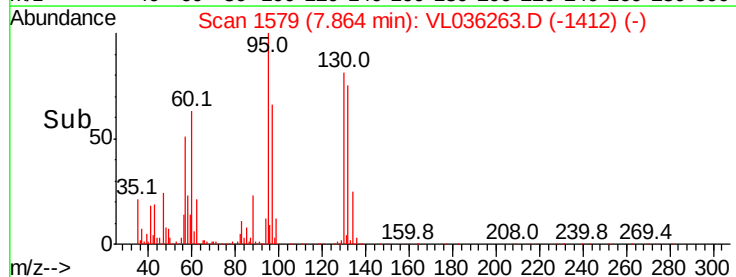
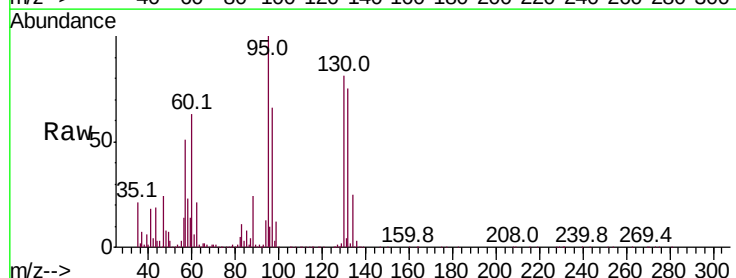
Manual Integrations  
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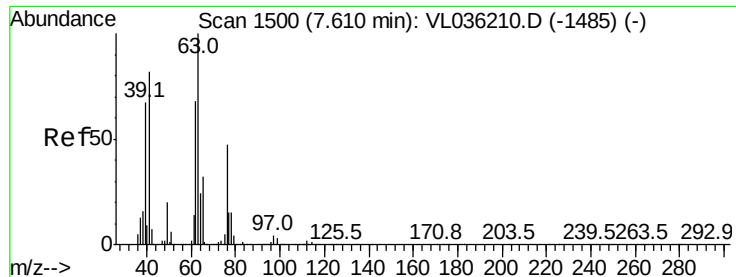
MMDadoda  
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#38  
 Trichloroethene  
 Concen: 9.101 ppbv  
 RT: 7.86 min Scan# 1579  
 Delta R.T. 0.04 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 123.3 | 103.9 | 155.9 |
| 132     | 92.2  | 77.4  | 116.2 |
| 97      | 80.9  | 62.5  | 93.7  |





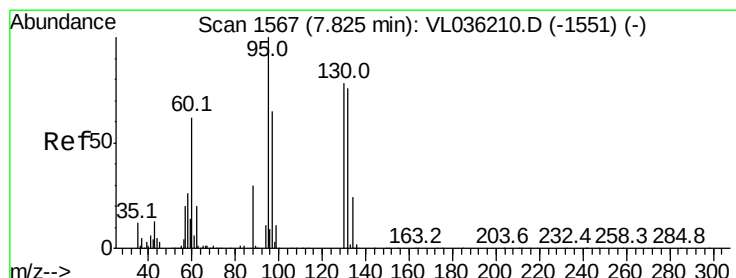
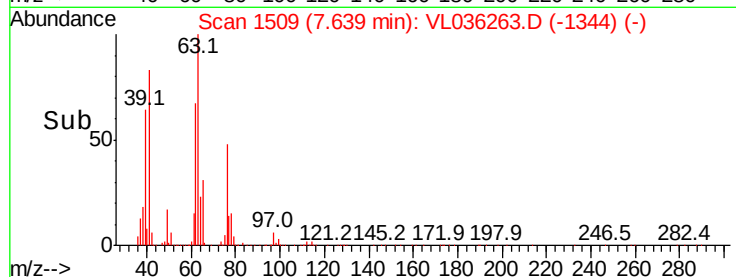
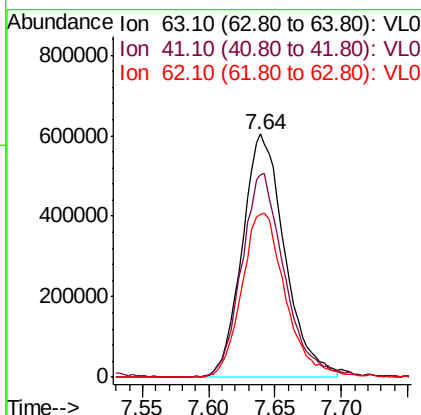
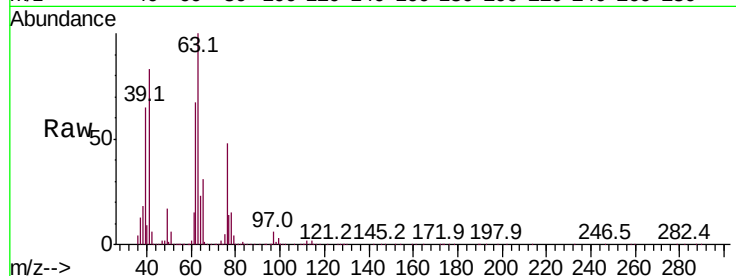
#39  
 1,2-Dichloropropane  
 Concen: 10.109 ppbv  
 RT: 7.64 min Scan# 1509  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 83.3  | 66.1  | 99.1  |
| 62      | 66.4  | 54.8  | 82.2  |

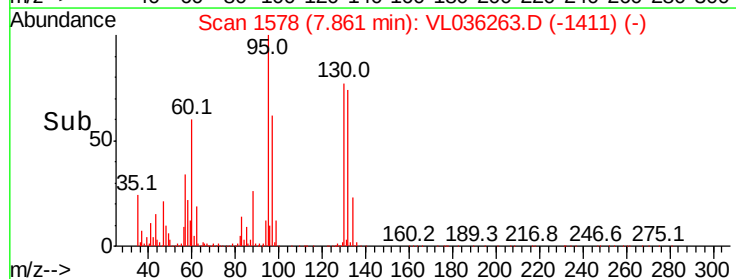
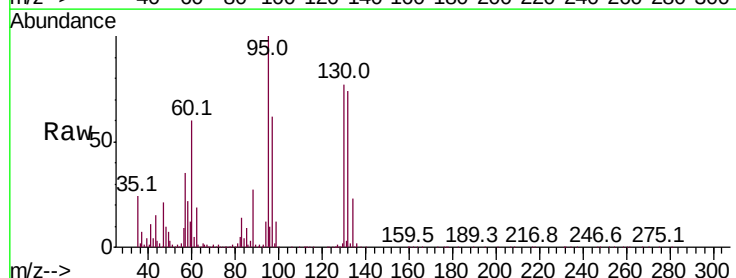
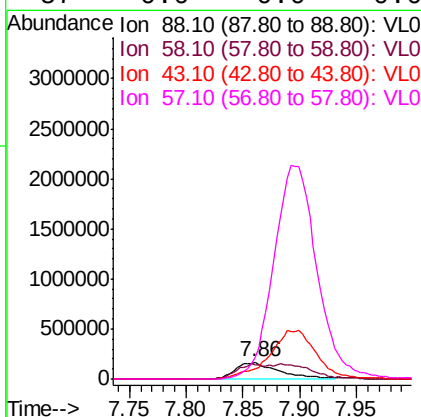
Manual Integrations  
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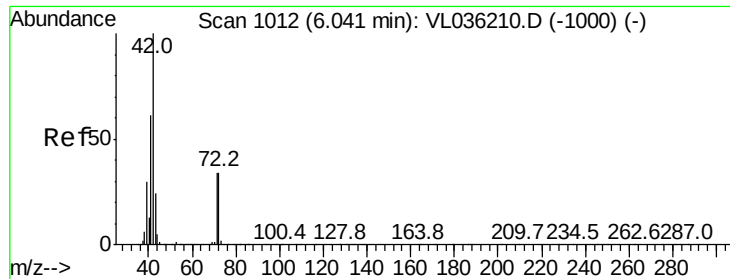


#40  
 1,4-Dioxane  
 Concen: 9.160 ppbv m  
 RT: 7.86 min Scan# 1578  
 Delta R.T. 0.04 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 88      | 100   |       |        |
| 58      | 69.0  | 123.0 | 184.6# |
| 43      | 0.0   | 0.0   | 0.0    |
| 57      | 0.0   | 0.0   | 0.0    |







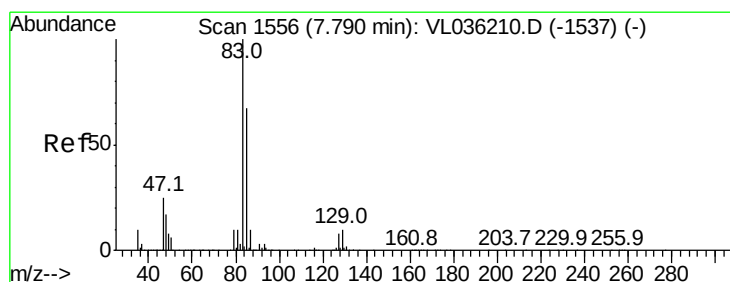
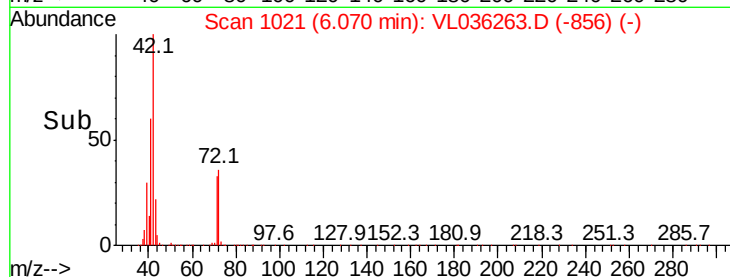
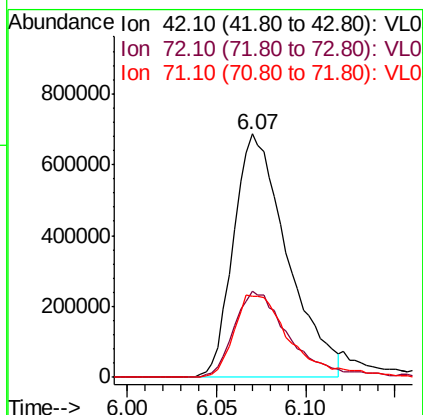
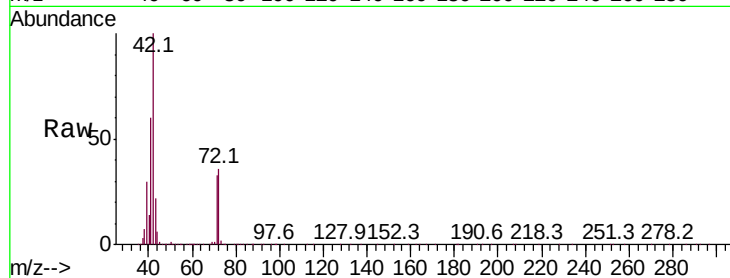
#41  
Tetrahydrofuran  
Concen: 9.382 ppbv  
RT: 6.07 min Scan# 1021  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 37.7  | 29.5  | 44.3  |
| 71      | 36.7  | 29.1  | 43.7  |

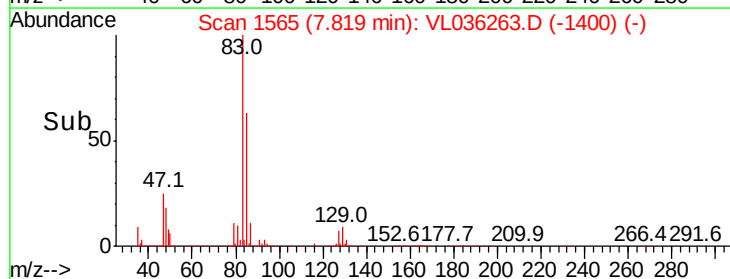
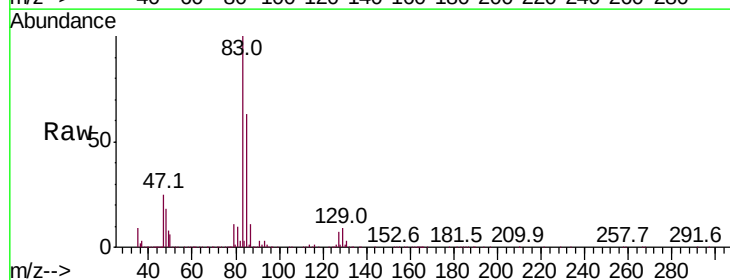
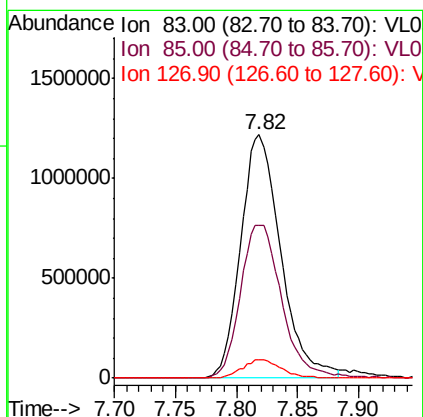
Manual Integrations  
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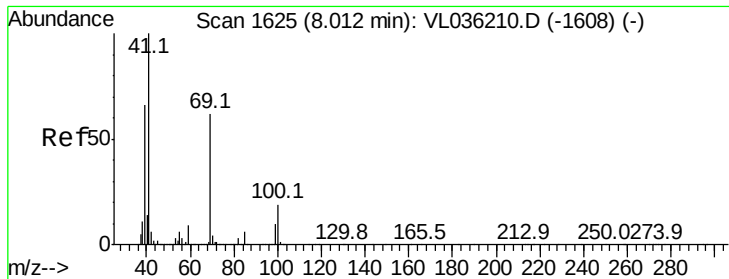
MMDadoda  
1/26/2021 12:58:26 PM



#42  
Bromodichloromethane  
Concen: 11.121 ppbv  
RT: 7.82 min Scan# 1565  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.0  | 53.4  | 80.2  |
| 127     | 7.4   | 6.2   | 9.2   |





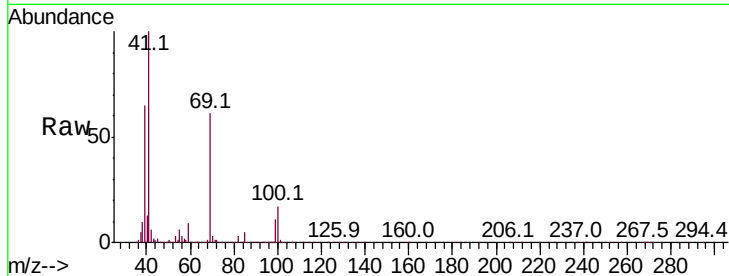
#43  
Methyl Methacrylate  
Concen: 10.635 ppbv  
RT: 8.04 min Scan# 1634  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleID :  
VL0122ABS01

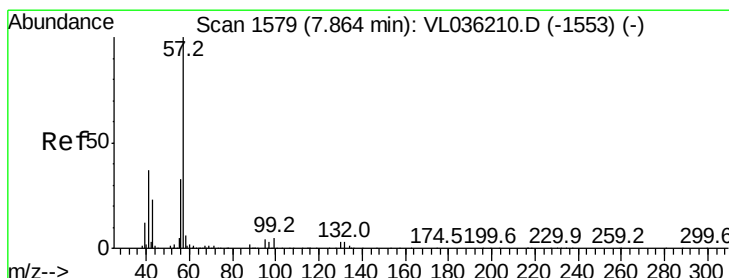
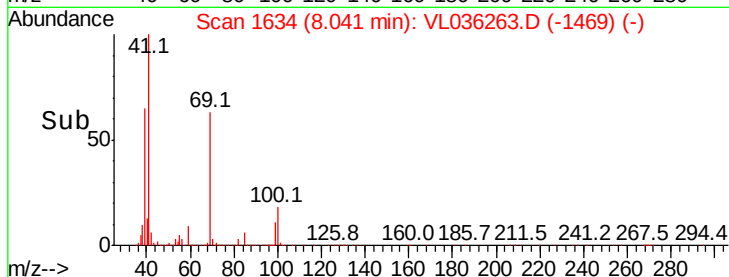
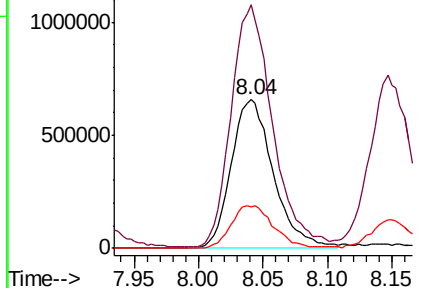
Tot Ion: 69 Resp: 1489566  
Ion Ratio Lower Upper  
69 100  
41 162.0 133.4 200.2  
100 29.5 24.3 36.5

Manual Integrations  
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1/26/2021 12:58:26 PM

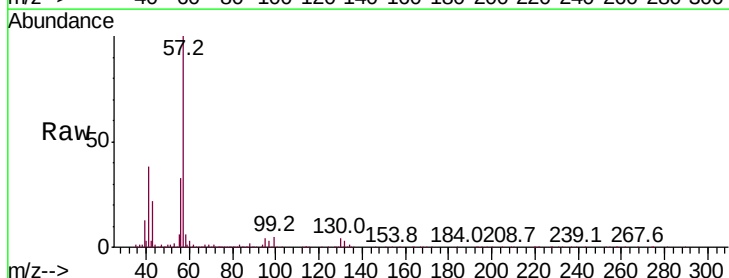


Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0

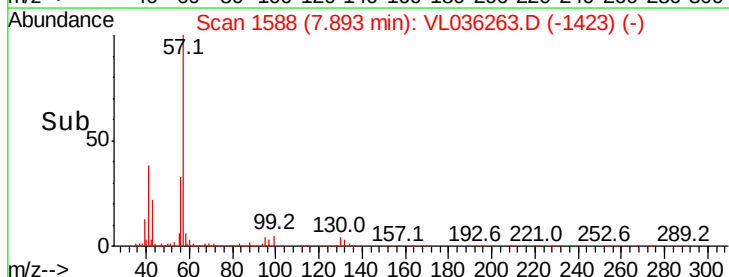
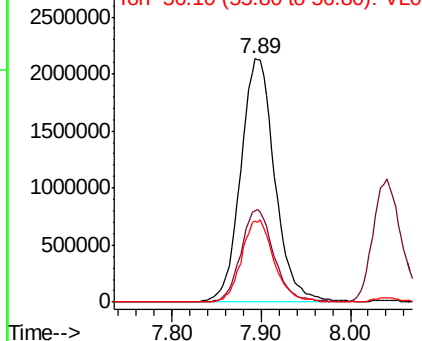


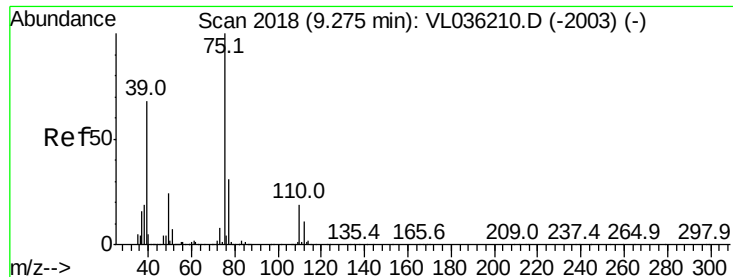
#44  
2,2,4-Trimethylpentane  
Concen: 9.386 ppbv  
RT: 7.89 min Scan# 1588  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 57 Resp: 5681679  
Ion Ratio Lower Upper  
57 100  
41 36.6 28.5 42.7  
56 32.3 25.5 38.3



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 12.271 ppbv

RT: 9.31 min Scan# 2028

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 75 Resp: 1632473

Ion Ratio Lower Upper

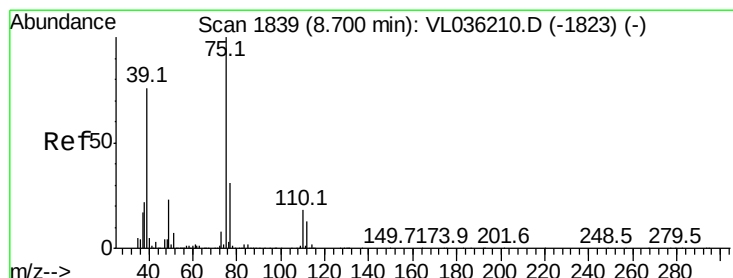
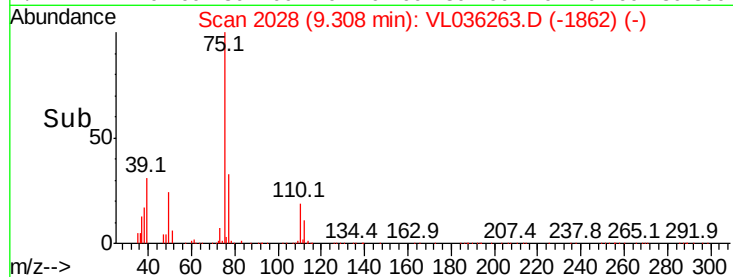
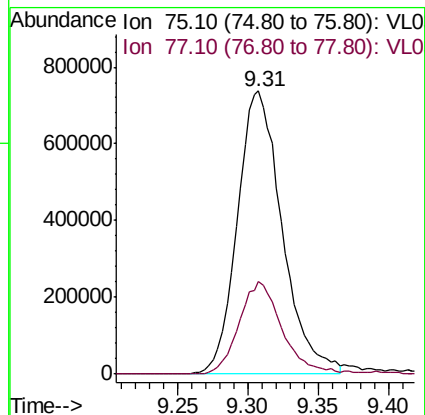
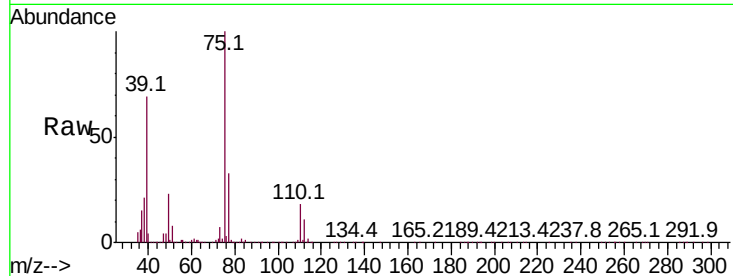
75 100

77 32.6 24.7 37.1

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#46

cis-1,3-Dichloropropene

Concen: 11.470 ppbv

RT: 8.73 min Scan# 1848

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

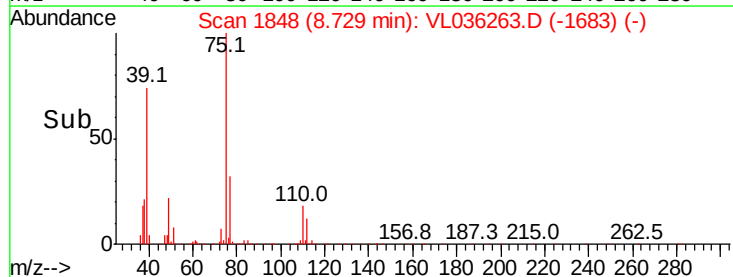
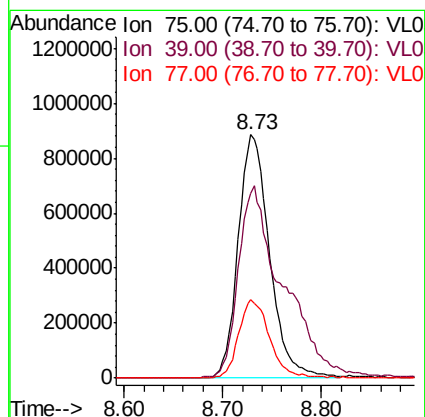
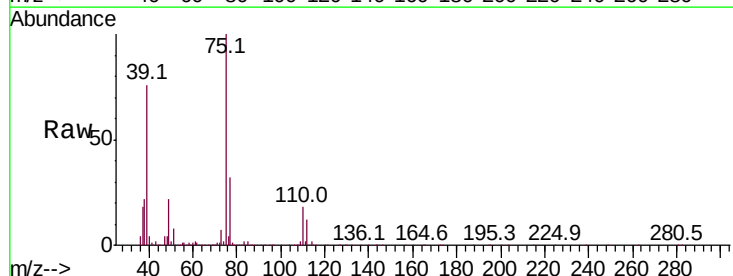
Tgt Ion: 75 Resp: 1960721

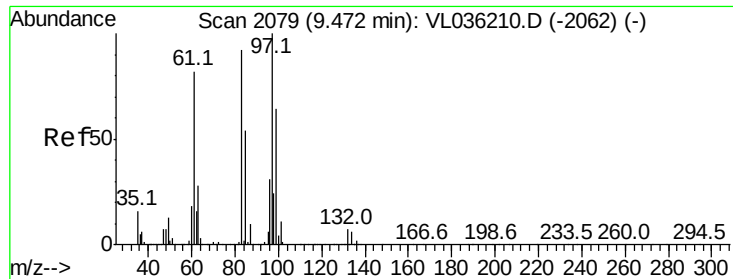
Ion Ratio Lower Upper

75 100

39 75.6 61.2 91.8

77 32.1 24.6 37.0





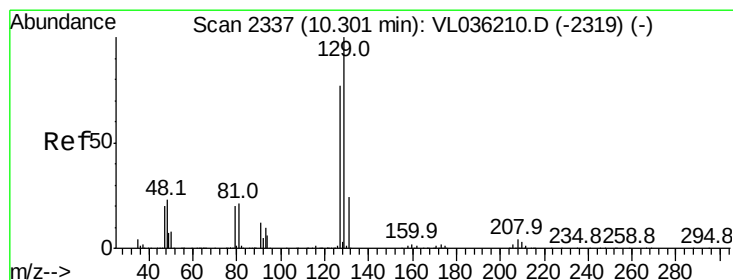
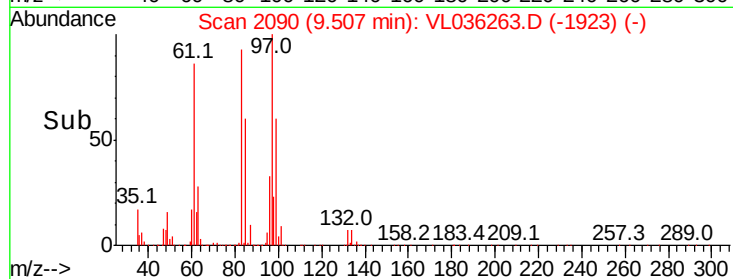
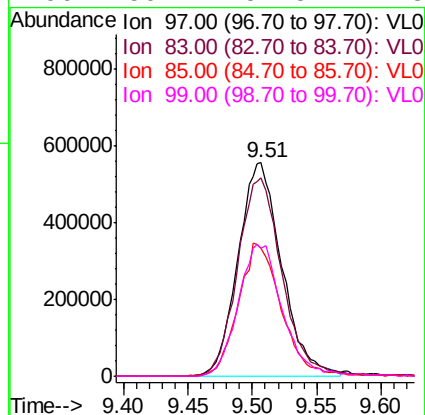
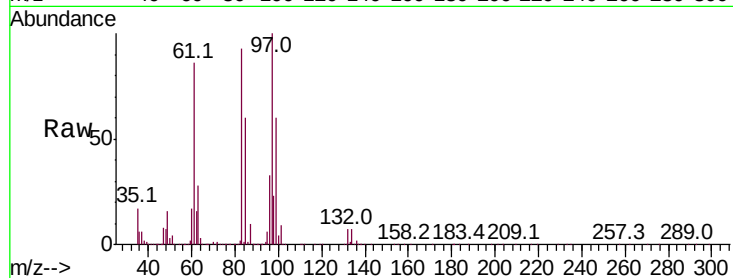
#47  
 1,1,2-Trichloroethane  
 Concen: 10.218 ppbv  
 RT: 9.51 min Scan# 2090  
 Delta R.T. 0.04 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 93.1 | 73.3  | 109.9 |       |
| 85      | 59.9 | 43.2  | 64.8  |       |
| 99      | 59.7 | 51.5  | 77.3  |       |

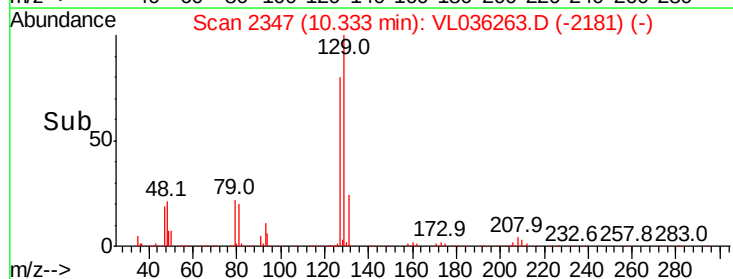
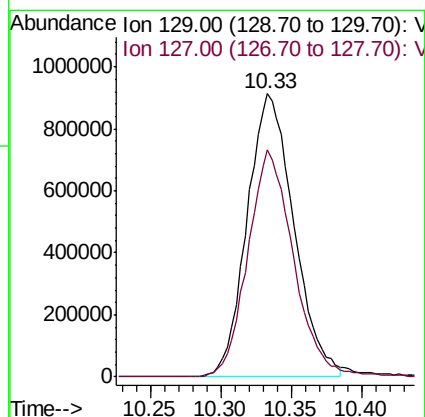
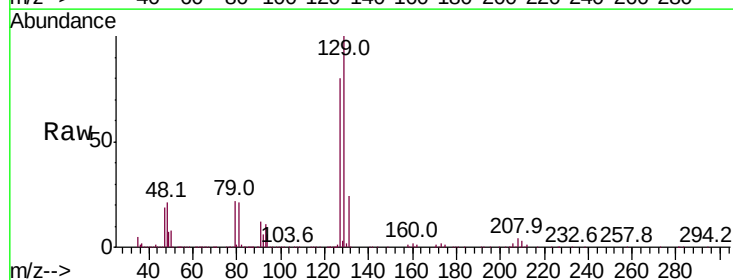
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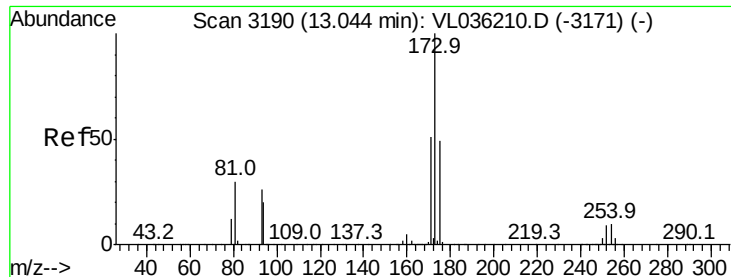
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#48  
 Dibromochloromethane  
 Concen: 11.278 ppbv  
 RT: 10.33 min Scan# 2347  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 79.5 | 39.6  | 118.8 |       |





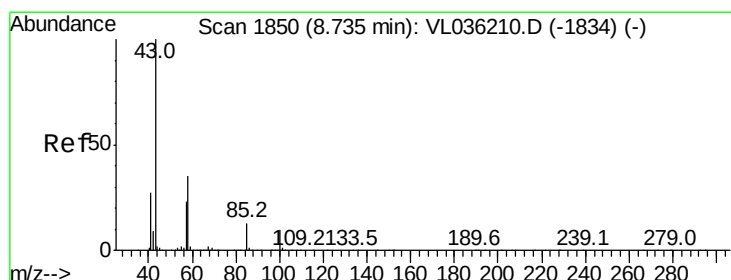
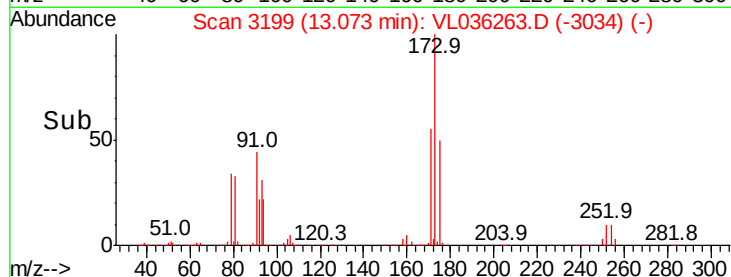
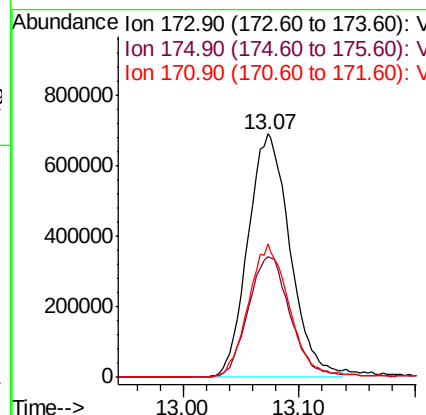
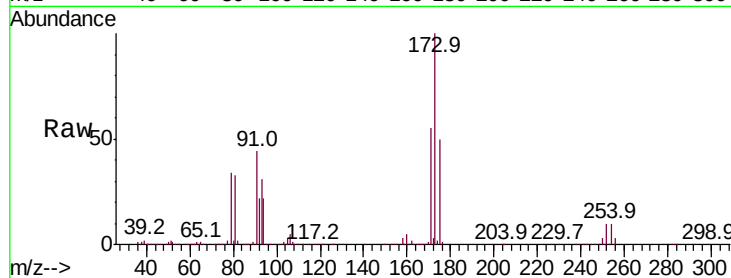
#49  
Bromoform  
Concen: 11.177 ppbv  
RT: 13.07 min Scan# 3199  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion:173 Resp: 1747364  
Ion Ratio Lower Upper  
173 100  
175 50.3 40.7 61.1  
171 54.0 43.0 64.6

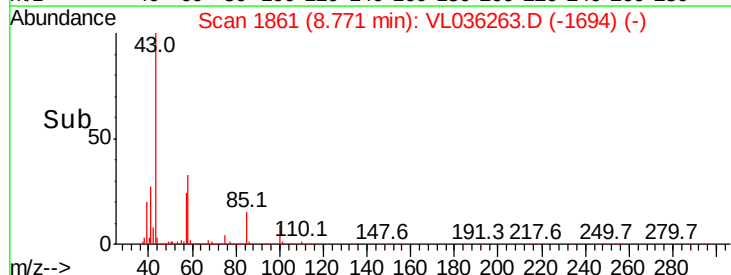
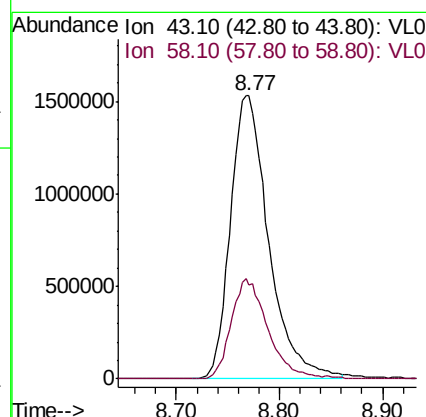
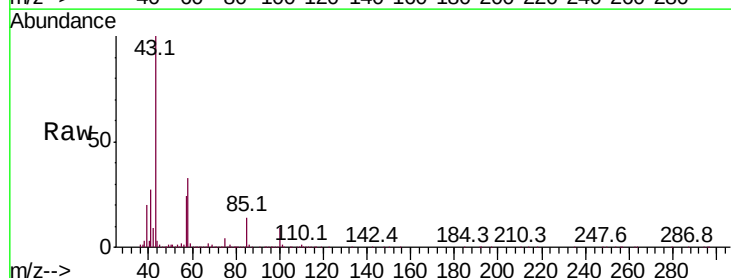
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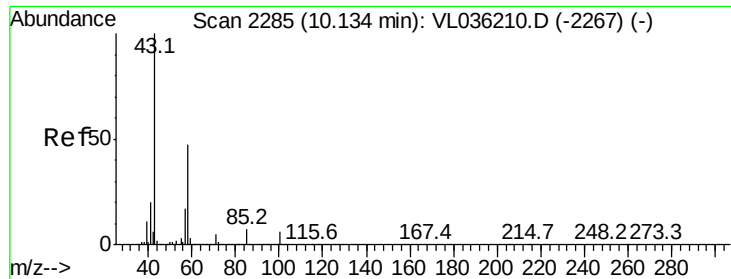
MMDadoda  
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#50  
4-Methyl-2-Pentanone  
Concen: 9.992 ppbv  
RT: 8.77 min Scan# 1861  
Delta R.T. 0.04 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 43 Resp: 3946253  
Ion Ratio Lower Upper  
43 100  
58 34.4 27.6 41.4





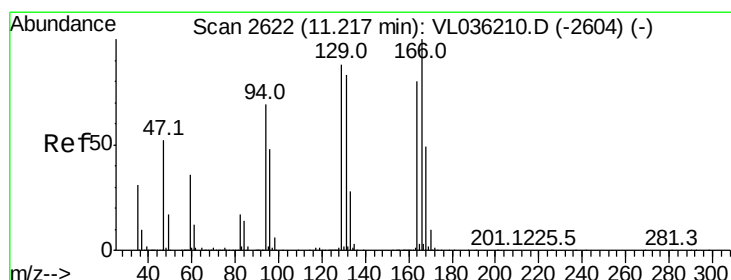
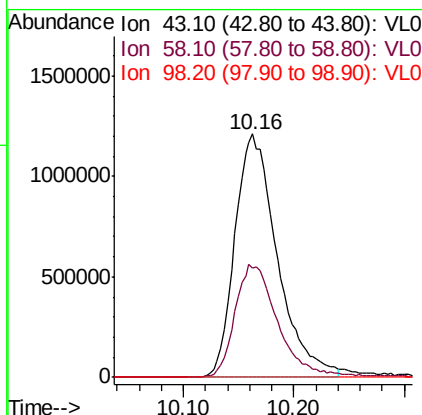
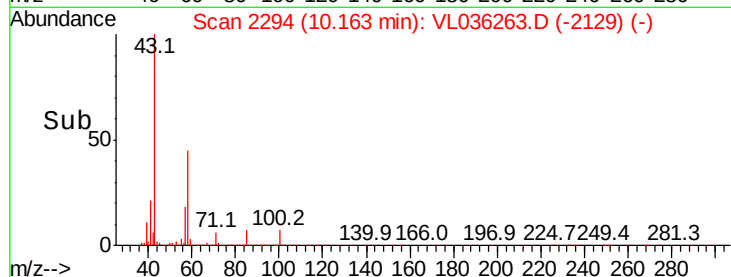
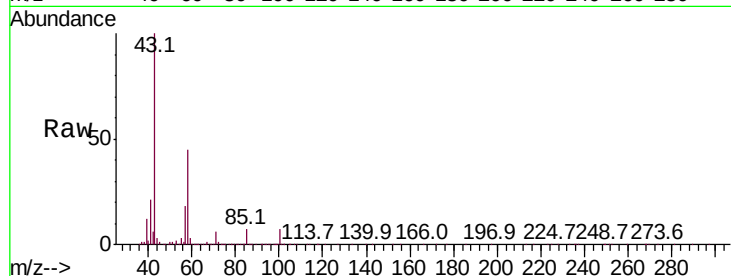
#51  
2-Hexanone  
Concen: 10.346 ppbv  
RT: 10.16 min Scan# 2294  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion: 43 Resp: 3223444  
Ion Ratio Lower Upper  
43 100  
58 47.7 37.4 56.0  
98 0.2 0.2 0.2

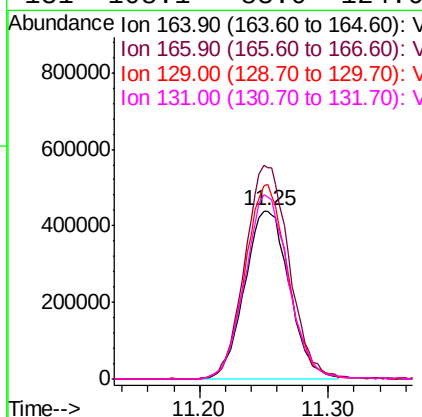
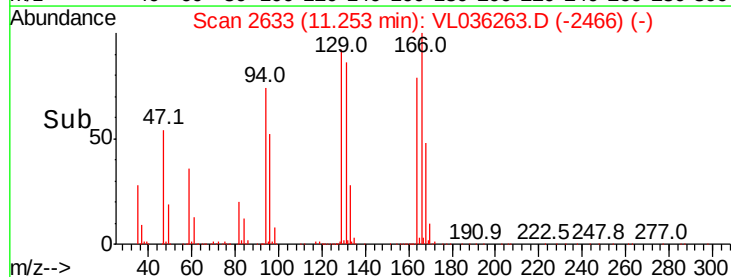
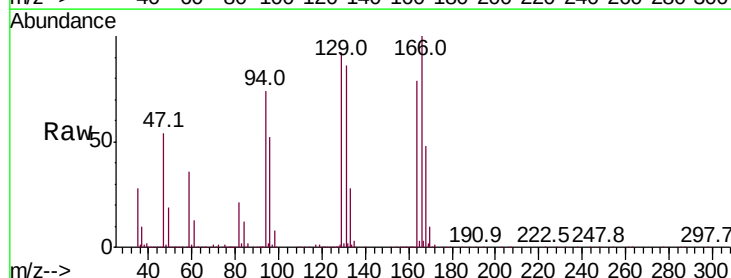
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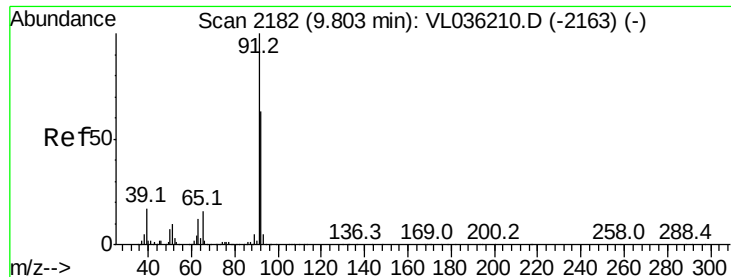
MMDadoda  
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#52  
Tetrachloroethene  
Concen: 8.685 ppbv  
RT: 11.25 min Scan# 2633  
Delta R.T. 0.04 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 164 Resp: 1054776  
Ion Ratio Lower Upper  
164 100  
166 126.1 99.9 149.9  
129 115.7 88.2 132.4  
131 108.1 83.0 124.6





#53

Toluene

Concen: 10.054 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 91 Resp: 3706539

Ion Ratio Lower Upper

91 100

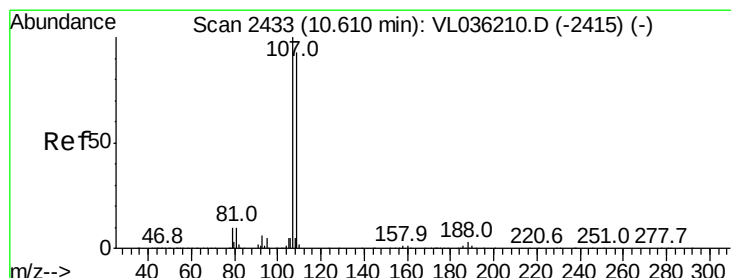
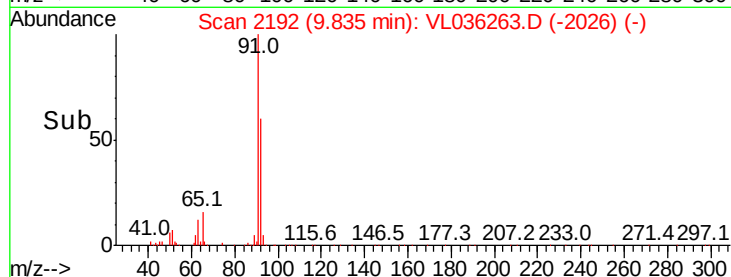
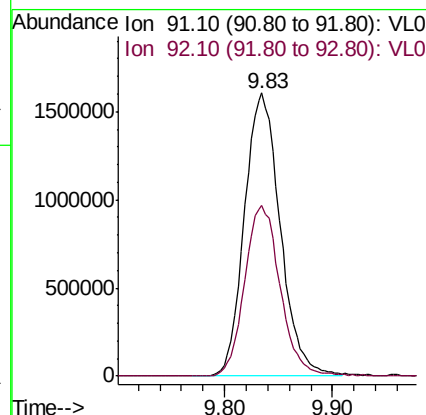
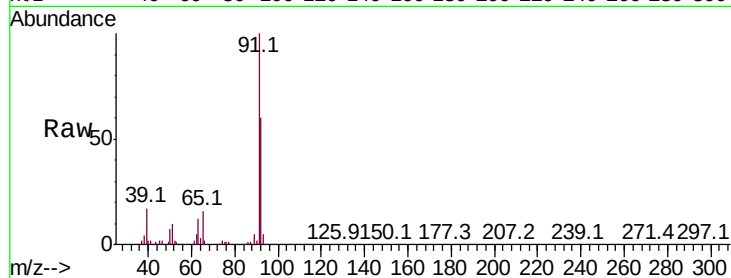
92 60.2 48.5 72.7

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.319 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. 0.03 min

Lab File: VL036263.D

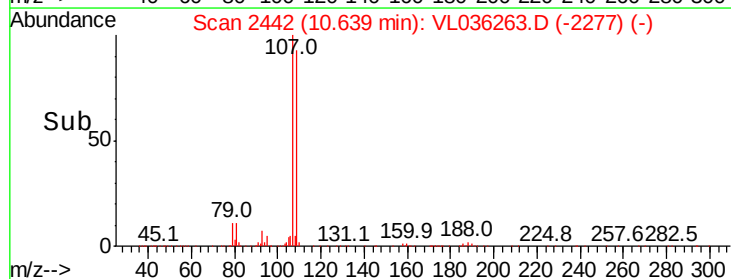
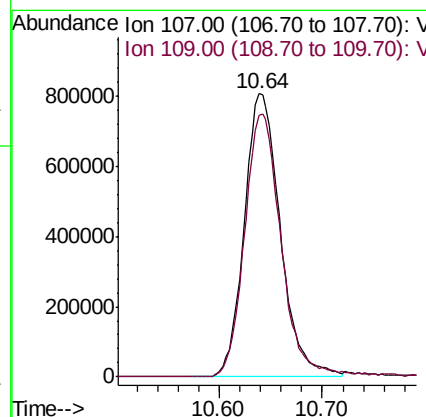
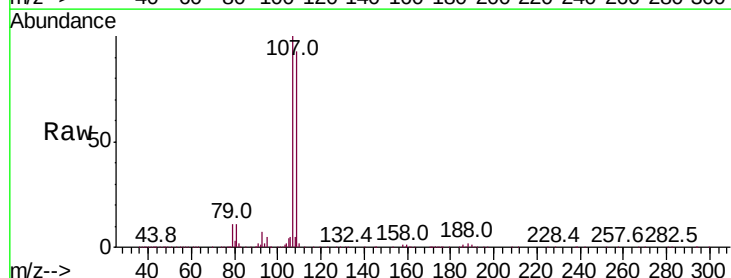
Acq: 22 Jan 2021 11:55

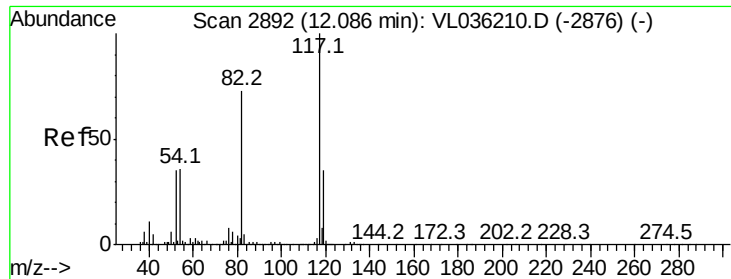
Tgt Ion: 107 Resp: 1958051

Ion Ratio Lower Upper

107 100

109 92.5 74.5 111.7





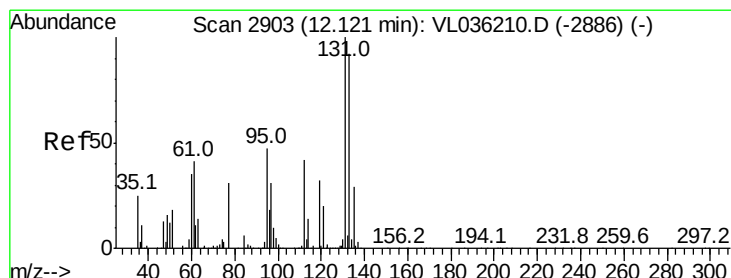
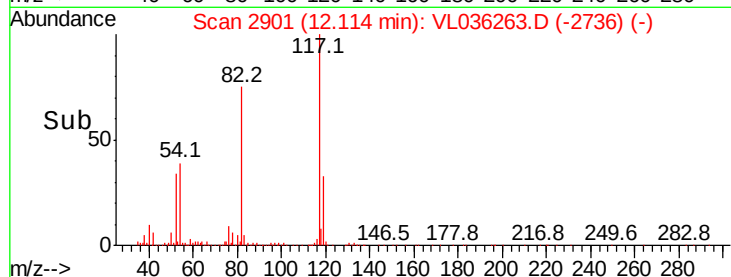
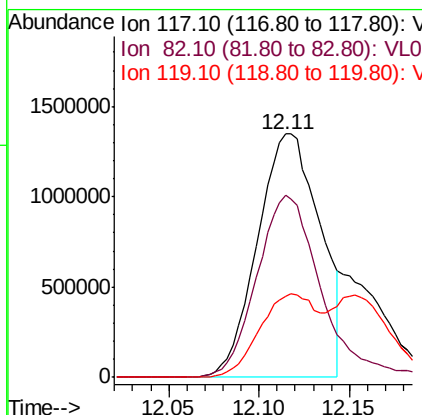
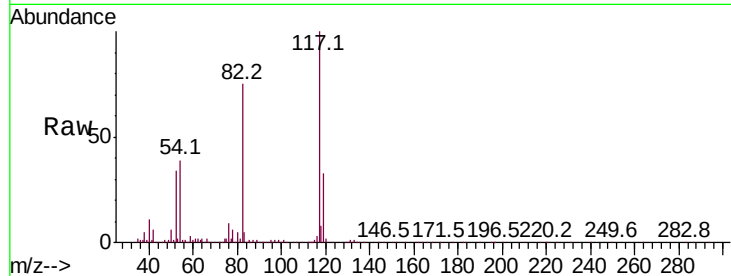
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.11 min Scan# 2901  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion:117 Resp: 3261748  
Ion Ratio Lower Upper  
117 100  
82 77.8 59.7 89.5  
119 30.5 28.6 43.0

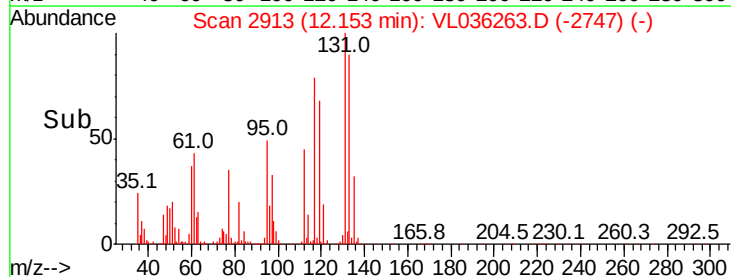
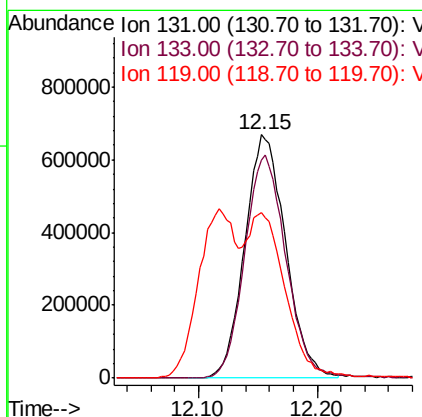
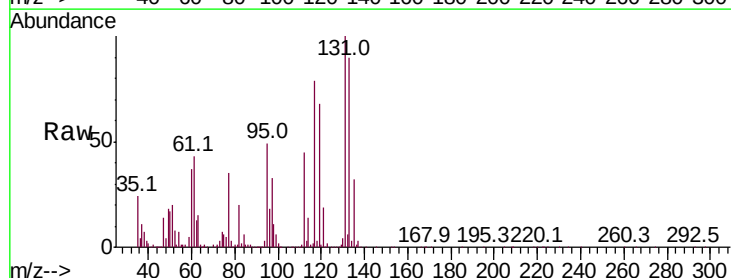
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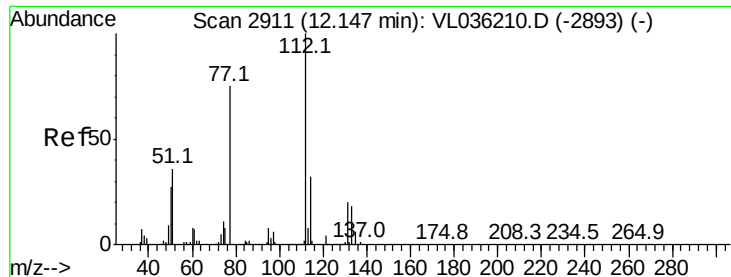


#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.910 ppbv  
RT: 12.15 min Scan# 2913  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion:131 Resp: 1588025  
Ion Ratio Lower Upper  
131 100  
133 93.6 76.5 114.7  
119 72.5 45.4 68.0#







#57

Chlorobenzene

Concen: 10.067 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion:112 Resp: 2576227

Ion Ratio Lower Upper

112 100

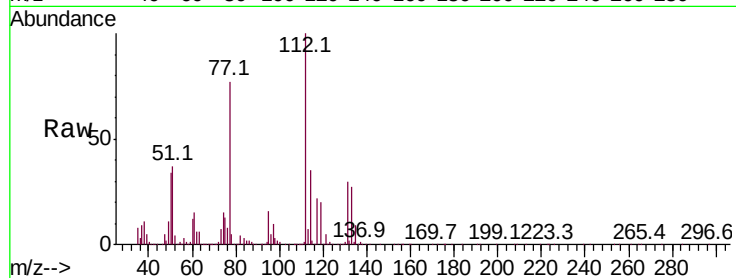
77 75.5 59.6 89.4

114 35.0 28.7 35.1

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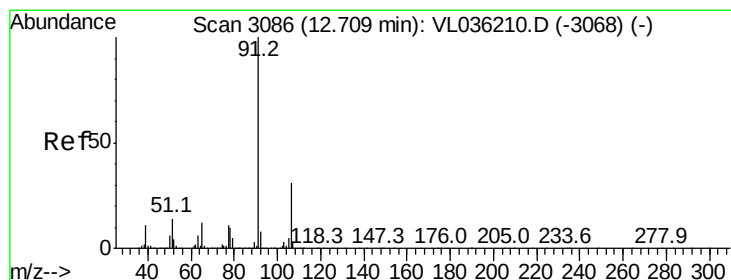
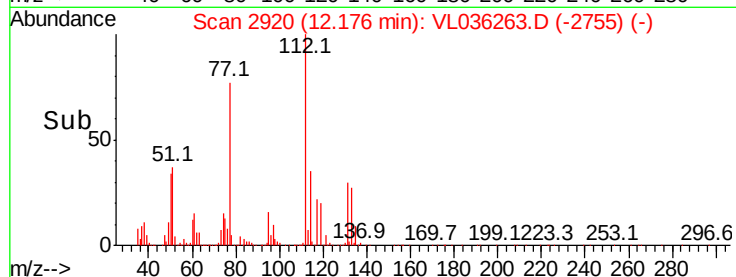
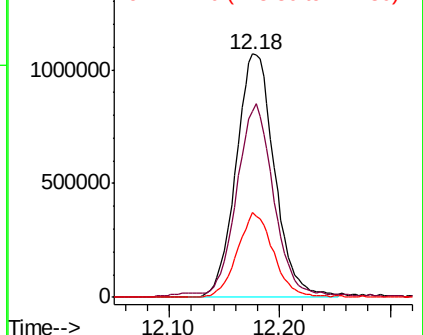
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.323 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.03 min

Lab File: VL036263.D

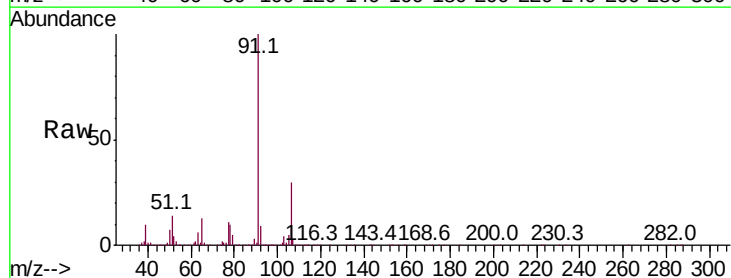
Acq: 22 Jan 2021 11:55

Tgt Ion: 91 Resp: 4996573

Ion Ratio Lower Upper

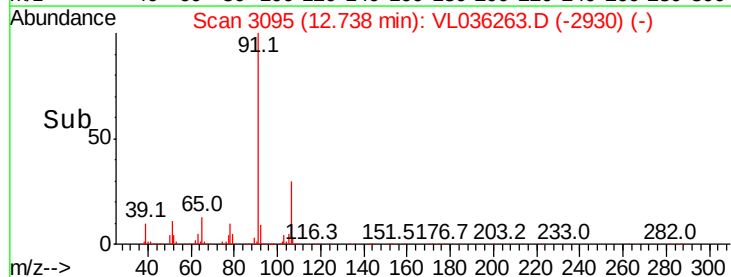
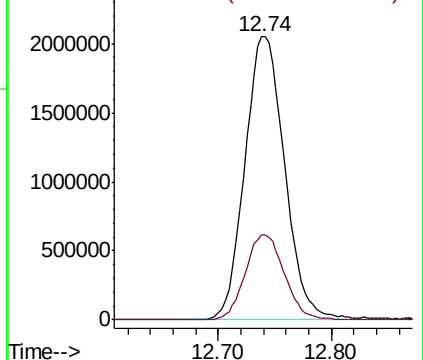
91 100

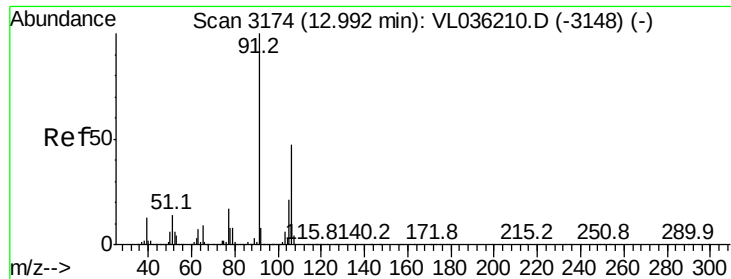
106 30.1 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





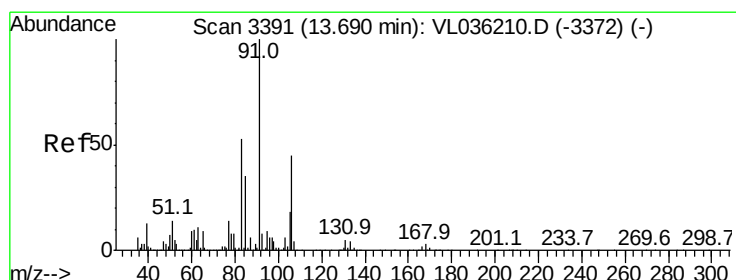
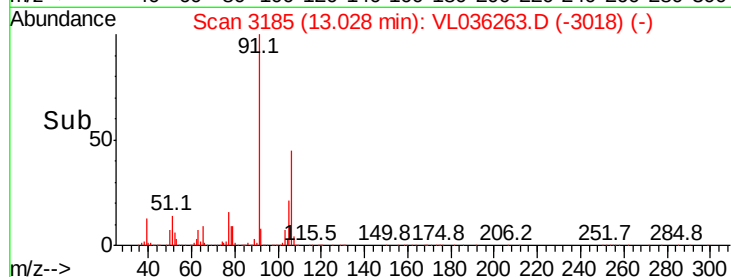
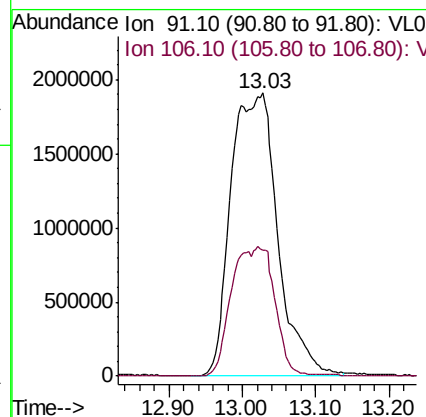
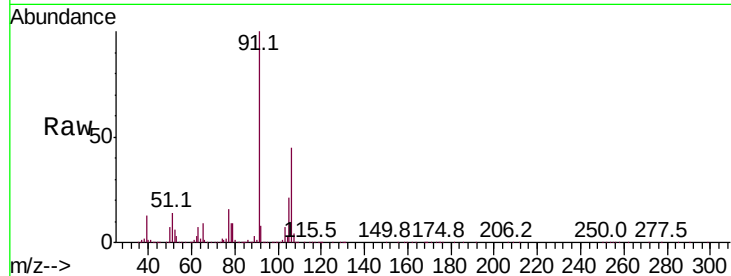
#59  
m/p-Xylene  
Concen: 20.275 ppbv m  
RT: 13.03 min Scan# 3185  
Delta R.T. 0.04 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

Tot Ion: 91 Resp: 8432422  
Ion Ratio Lower Upper  
91 100  
106 42.8 34.6 51.8

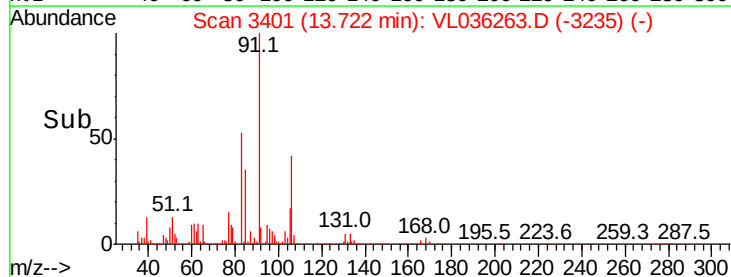
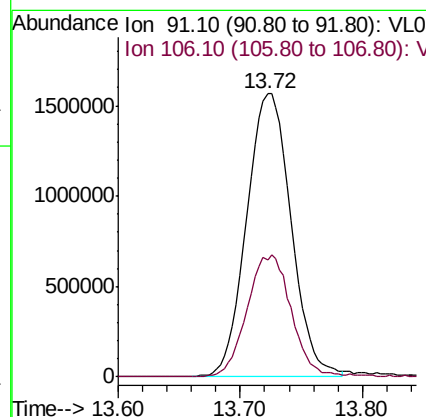
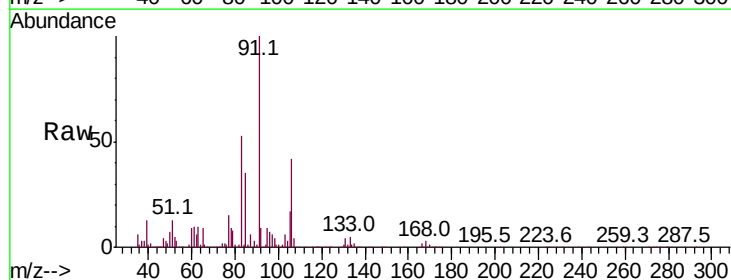
Manual Integrations  
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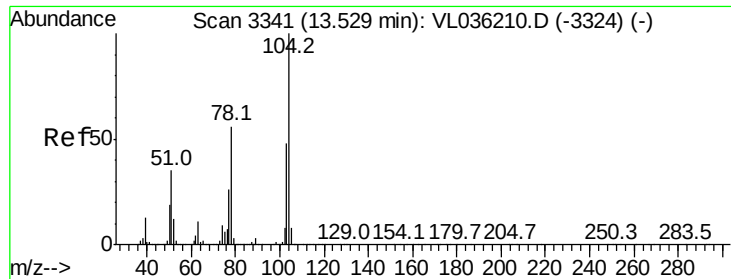
MMDadoda  
1/26/2021 12:58:26 PM



#60  
o-Xylene  
Concen: 9.842 ppbv  
RT: 13.72 min Scan# 3401  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Tgt Ion: 91 Resp: 3945818  
Ion Ratio Lower Upper  
91 100  
106 43.1 21.9 65.8





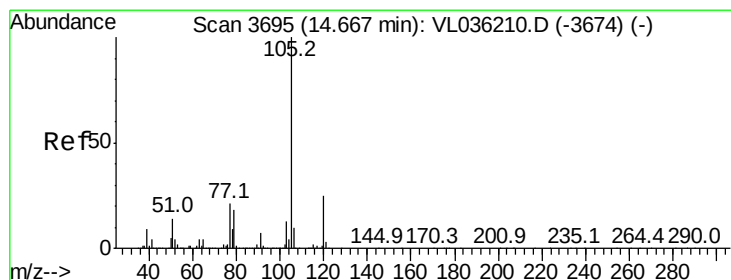
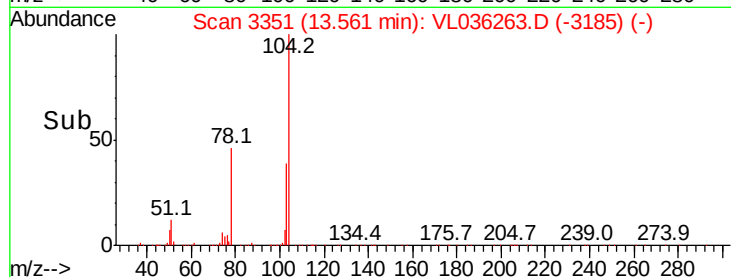
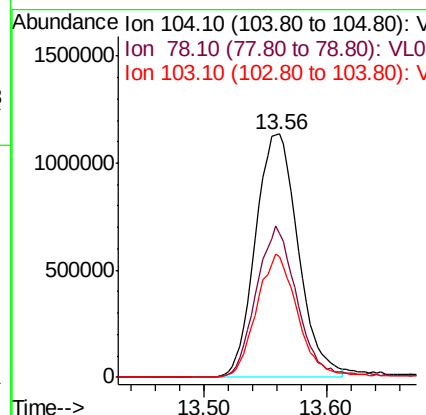
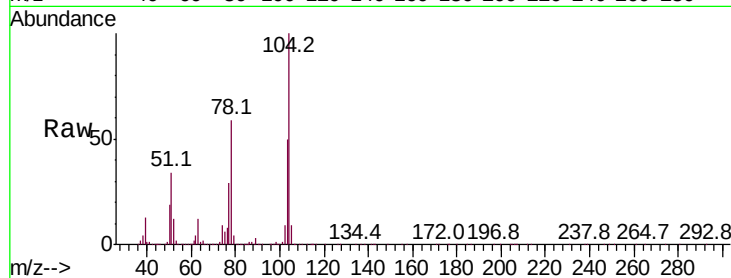
#61  
Stvrene  
Concen: 10.896 ppbv  
RT: 13.56 min Scan# 3351  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 59.8  | 46.8  | 70.2  |
| 103     | 49.0  | 38.4  | 57.6  |

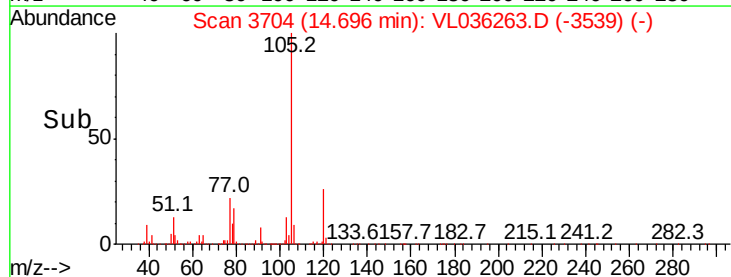
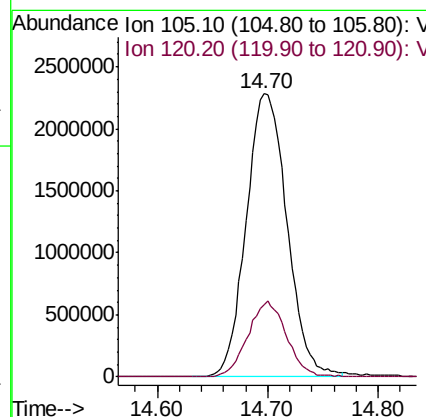
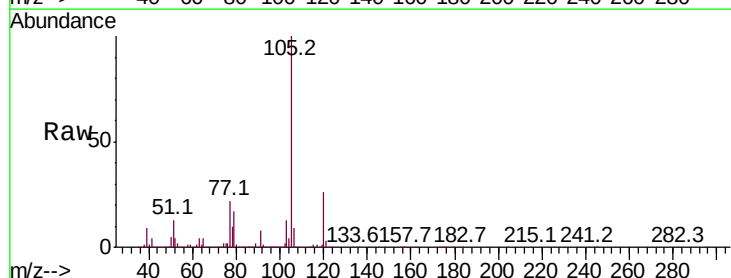
Manual Integrations  
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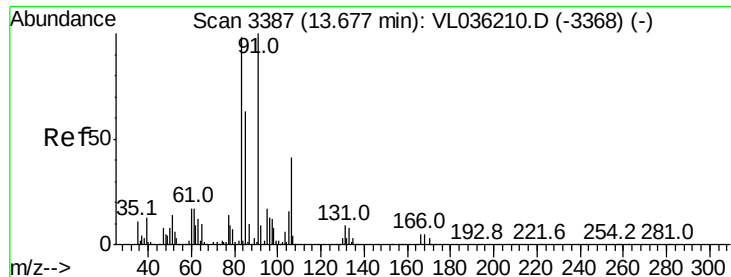
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#62  
Isopropylbenzene  
Concen: 9.827 ppbv  
RT: 14.70 min Scan# 3704  
Delta R.T. 0.03 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.6  | 20.3  | 30.5  |





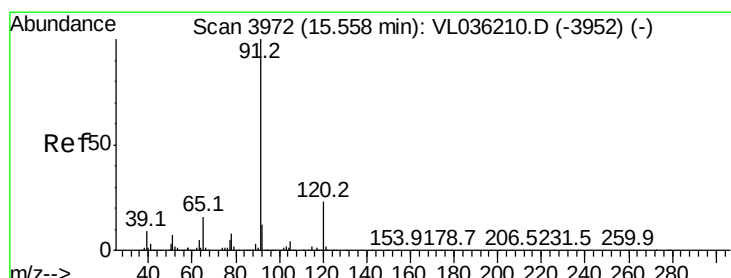
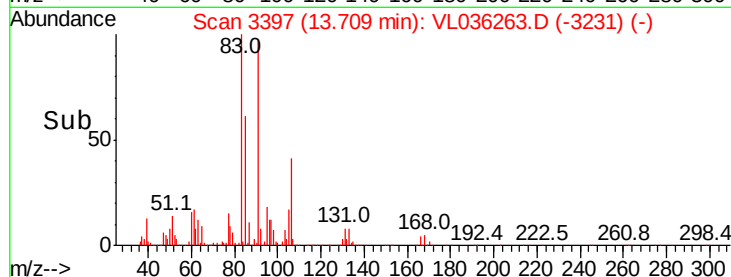
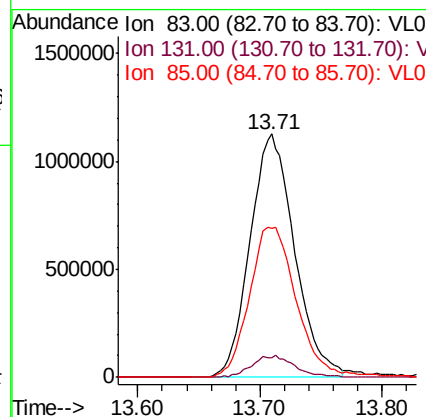
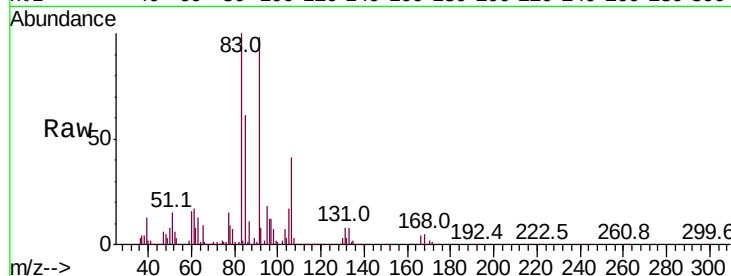
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.511 ppbv  
 RT: 13.71 min Scan# 3397  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 8.8   | 4.5   | 13.5  |
| 85      | 66.3  | 33.1  | 99.3  |

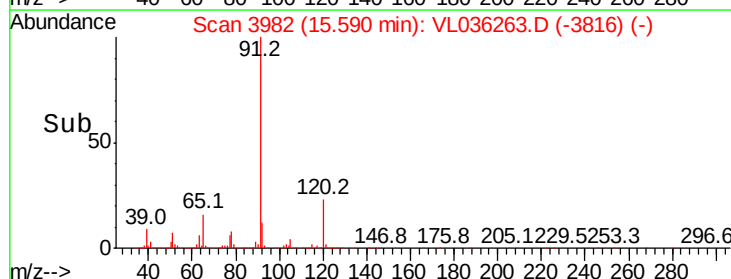
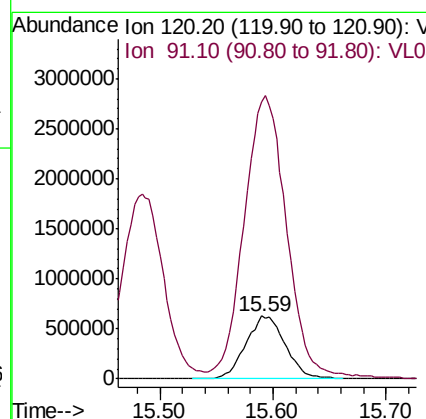
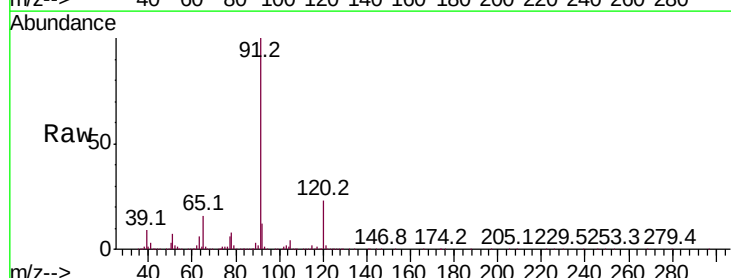
Manual Integrations  
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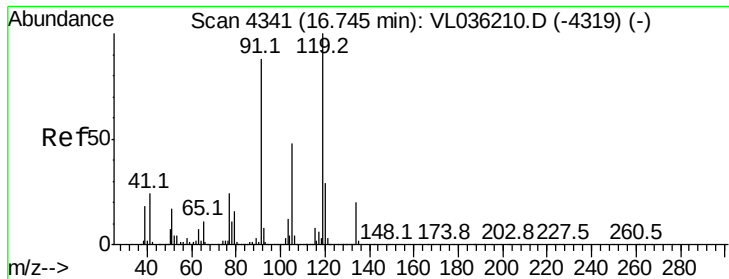
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#64  
 n-propylbenzene  
 Concen: 10.396 ppbv  
 RT: 15.59 min Scan# 3982  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 120     | 100   |       |       |
| 91      | 487.9 | 391.8 | 587.6 |





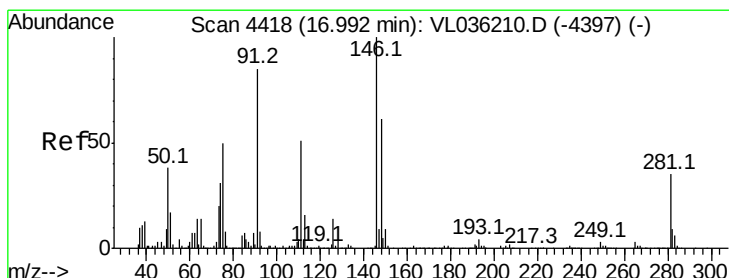
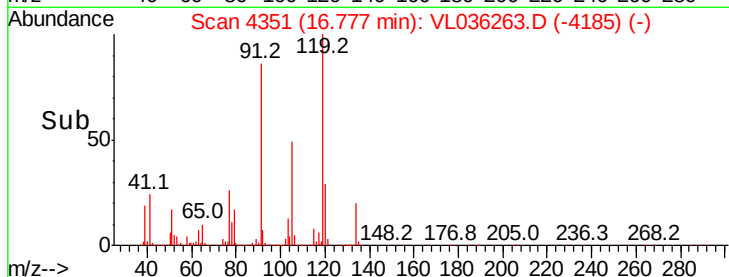
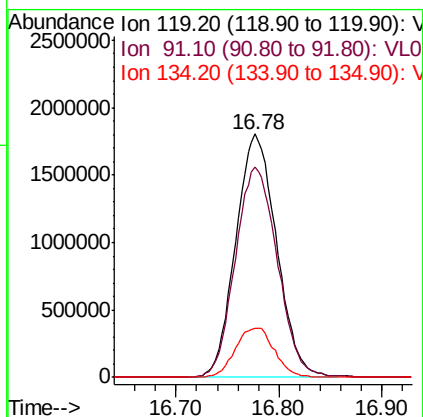
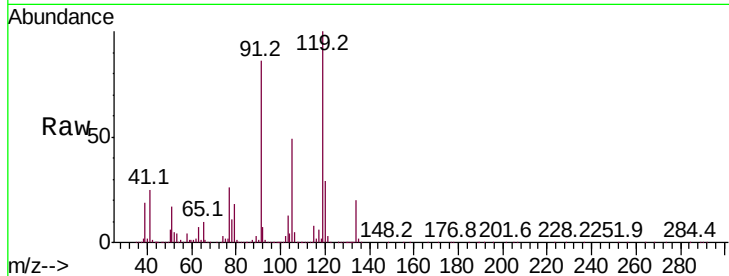
#65  
 tert-Butylbenzene  
 Concen: 9.819 ppbv  
 RT: 16.78 min Scan# 4351  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

Tot Ion:119 Resp: 4959086  
 Ion Ratio Lower Upper  
 119 100  
 91 89.3 71.0 106.6  
 134 19.7 15.8 23.6

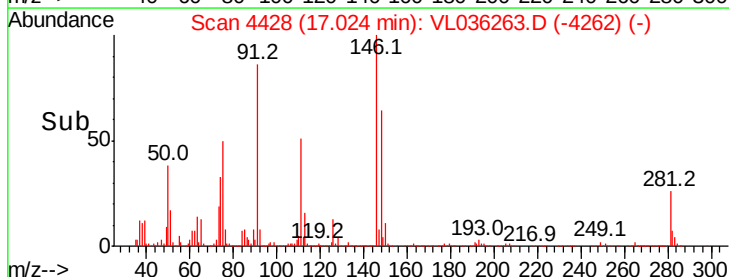
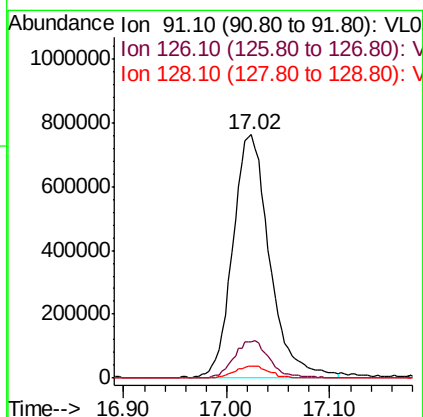
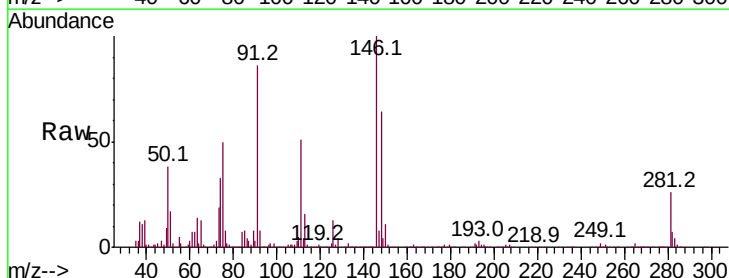
Manual Integrations  
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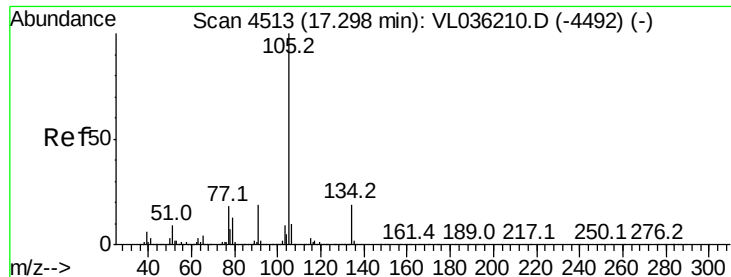
MMDadoda  
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#66  
 Benzyl Chloride  
 Concen: 14.578 ppbv  
 RT: 17.02 min Scan# 4428  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Tgt Ion: 91 Resp: 1881125  
 Ion Ratio Lower Upper  
 91 100  
 126 15.1 12.6 19.0  
 128 4.9 3.8 5.6





#67

sec-Butylbenzene

Concen: 9.582 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 105 Resp: 7184037

Ion Ratio Lower Upper

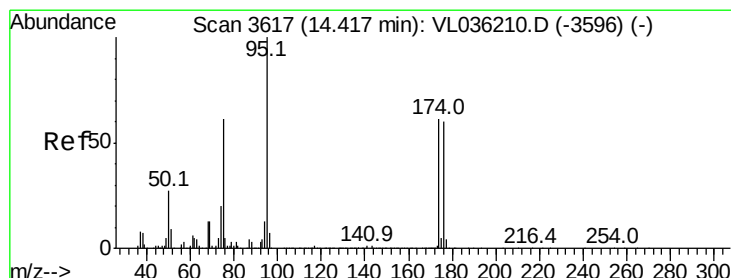
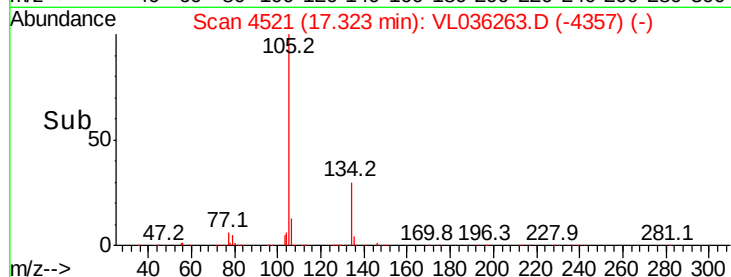
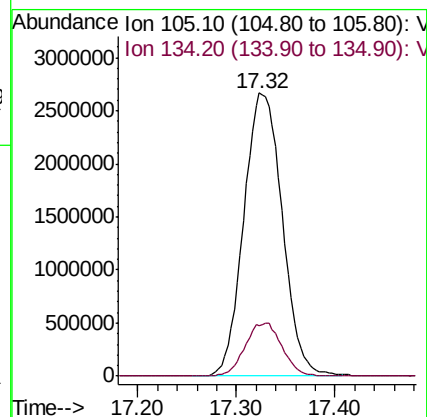
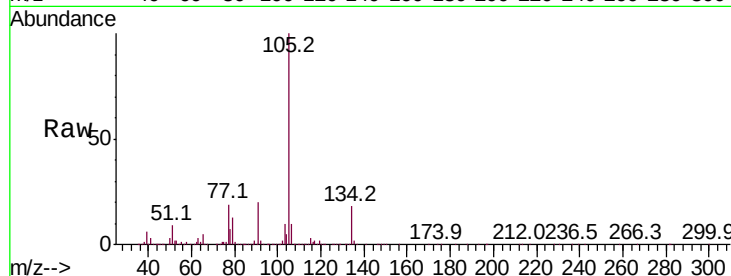
105 100

134 18.1 14.2 21.4

Manual Integrations  
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.640 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

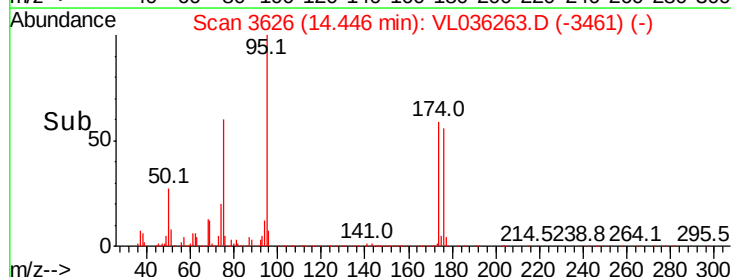
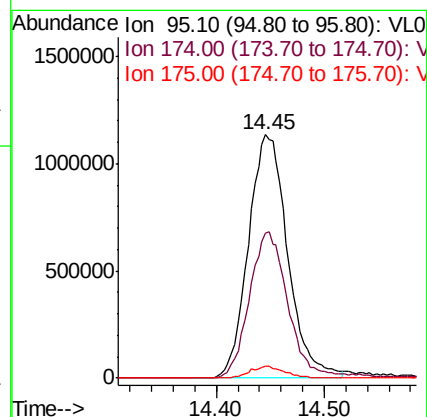
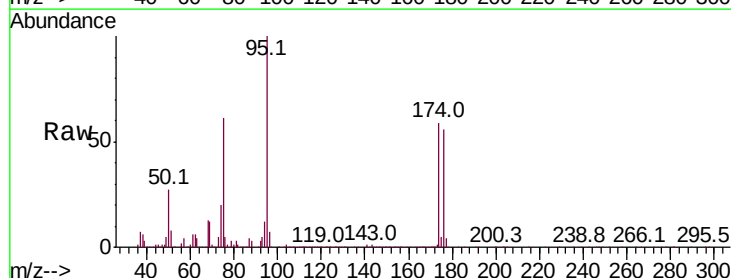
Tgt Ion: 95 Resp: 2872723

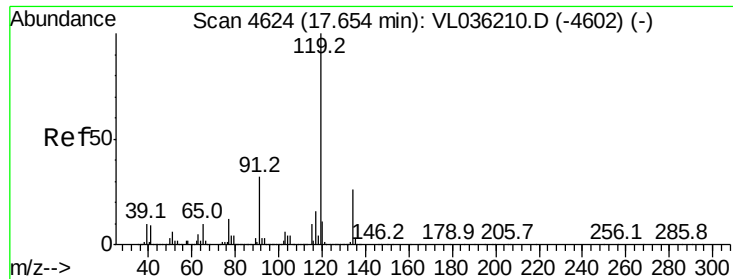
Ion Ratio Lower Upper

95 100

174 60.1 49.4 74.0

175 4.5 3.8 5.8





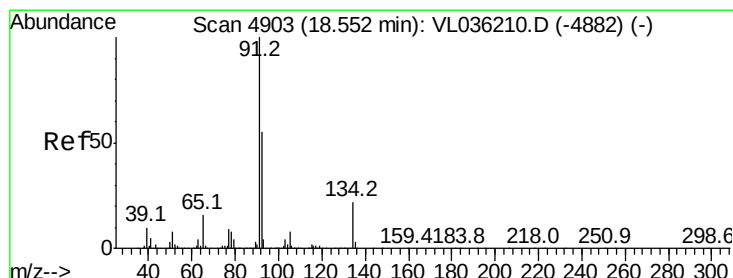
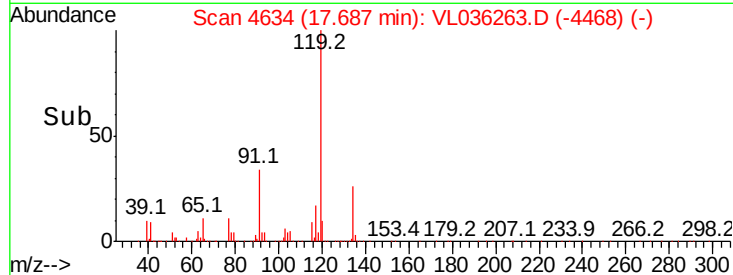
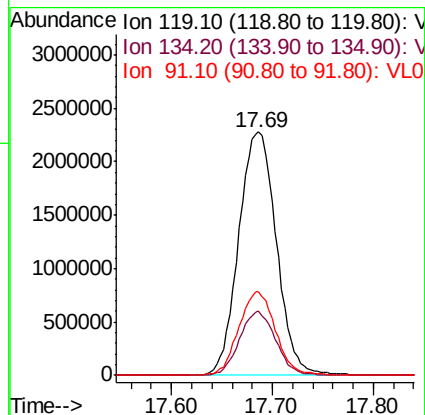
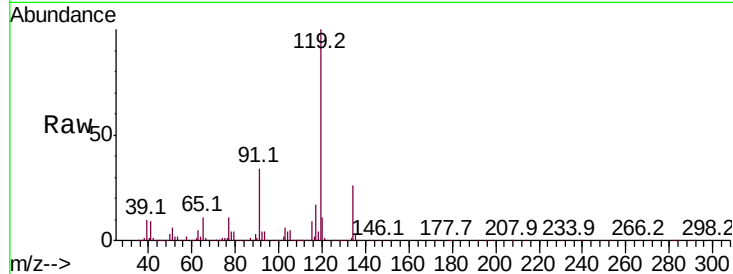
#69  
 p-Isopropyltoluene  
 Concen: 9.899 ppbv  
 RT: 17.69 min Scan# 4634  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.4  | 20.2  | 30.4  |
| 91      | 33.4  | 26.0  | 39.0  |

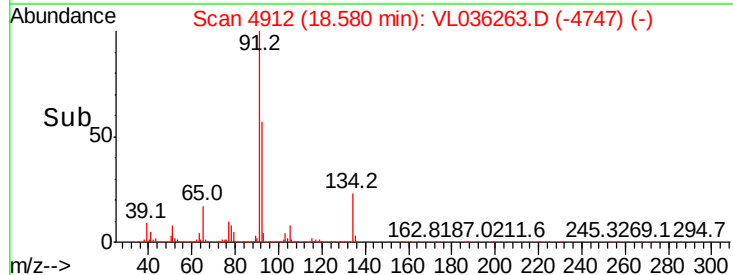
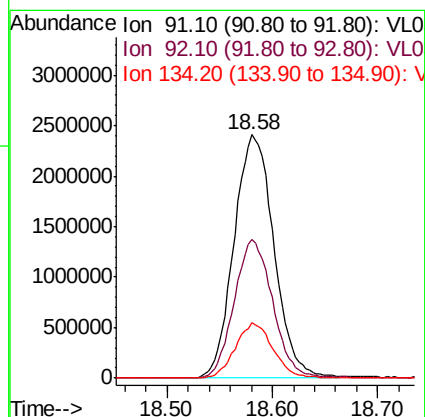
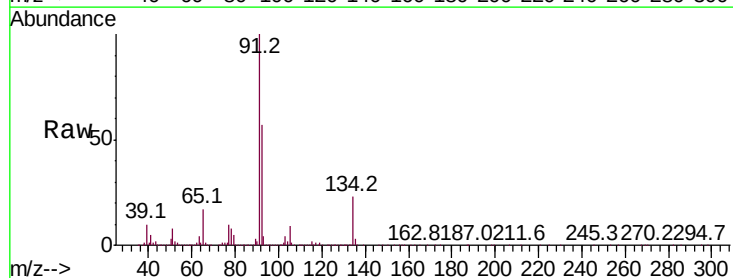
Manual Integrations  
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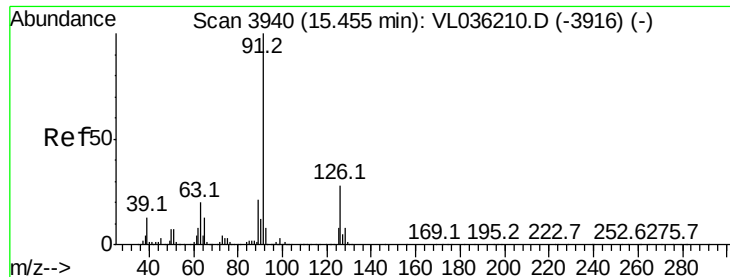
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#70  
 n-Butylbenzene  
 Concen: 9.976 ppbv  
 RT: 18.58 min Scan# 4912  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 55.4  | 44.0  | 66.0  |
| 134     | 21.5  | 17.0  | 25.4  |





#71

2-Chlorotoluene

Concen: 10.008 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion: 91 Resp: 4688878

Ion Ratio Lower Upper

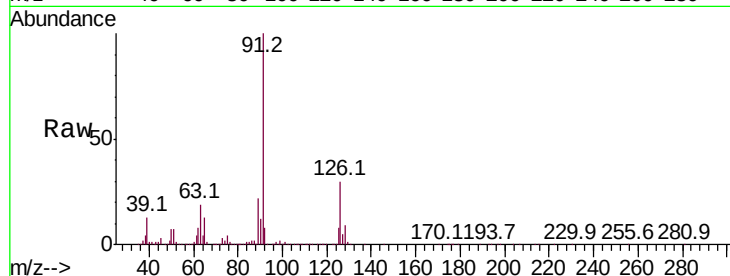
91 100

126 29.2 11.5 45.9

Manual Integrations  
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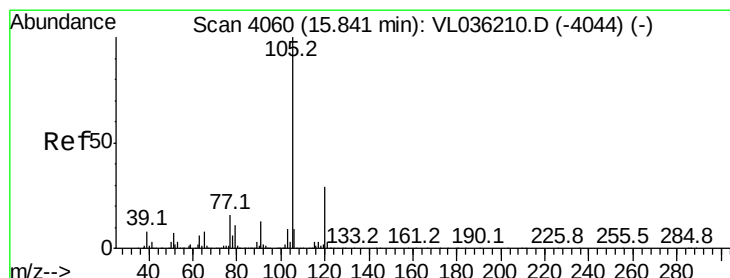
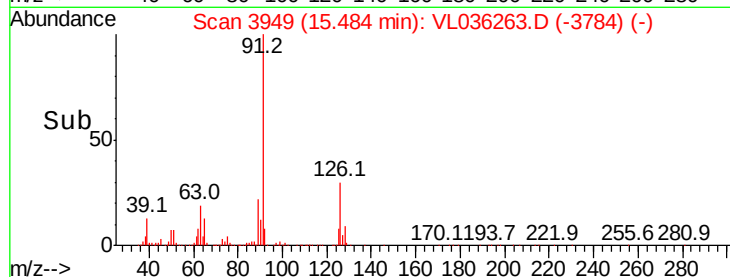
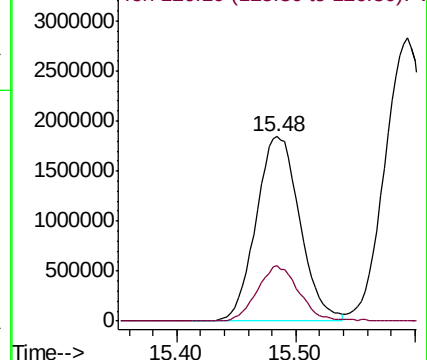
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.096 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Tgt Ion:105 Resp: 4567362

Ion Ratio Lower Upper

105 100

120 29.5 23.7 35.5

91 14.2 11.9 17.9

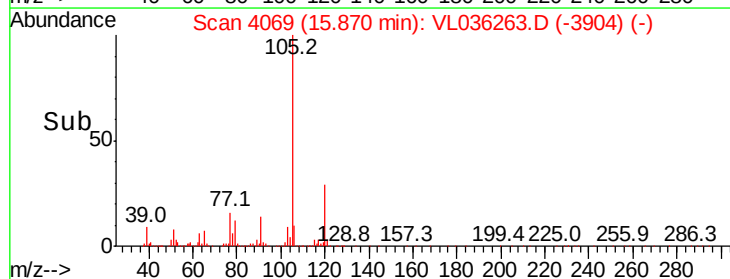
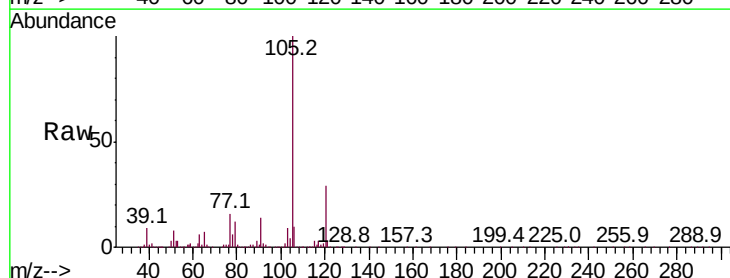
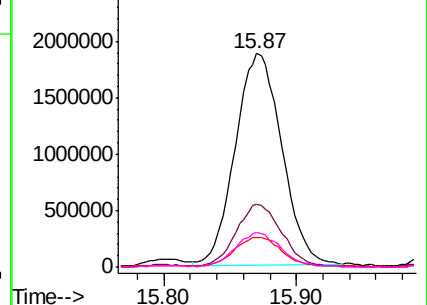
77 16.5 12.6 18.8

Abundance Ion 105.10 (104.80 to 105.80): V

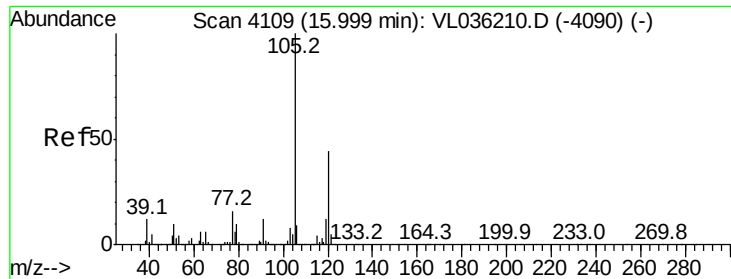
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#73

1,3,5-Trimethylbenzene

Concen: 9.994 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0122ABS01

Tot Ion:105 Resp: 4310202

Ion Ratio Lower Upper

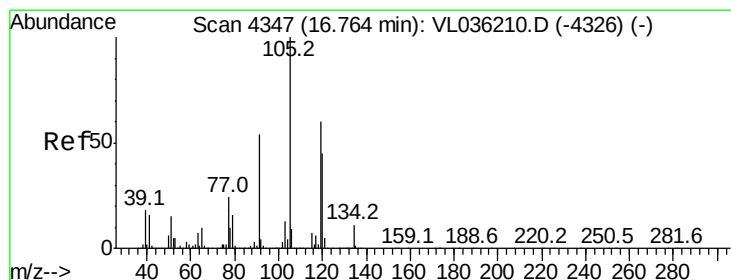
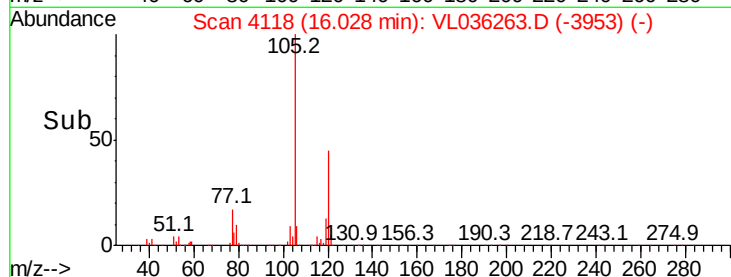
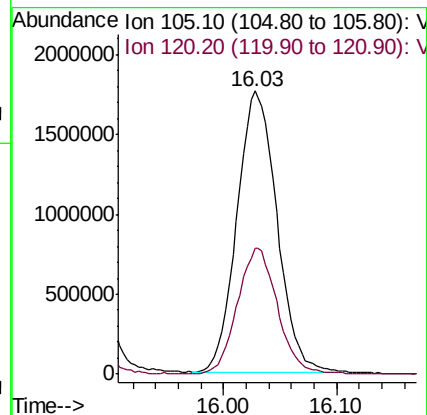
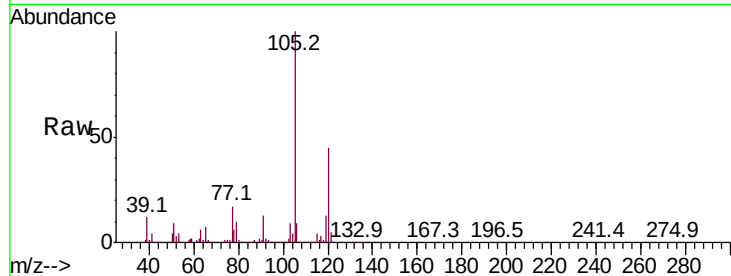
105 100

120 44.9 35.5 53.3

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#74

1,2,4-Trimethylbenzene

Concen: 9.944 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.03 min

Lab File: VL036263.D

Acq: 22 Jan 2021 11:55

Tgt Ion:105 Resp: 4399055

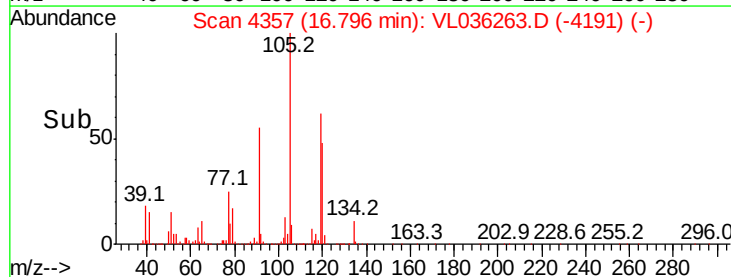
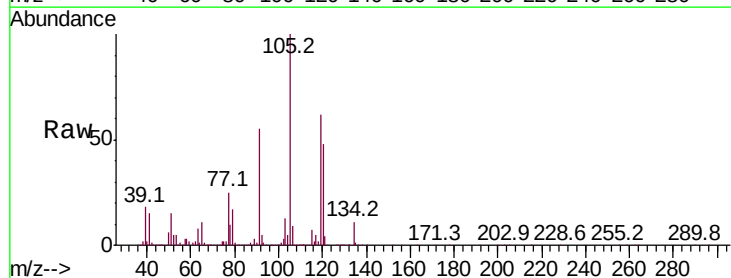
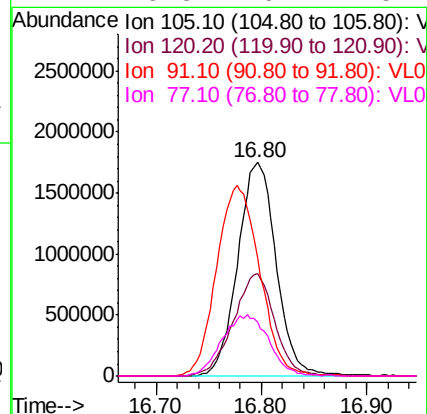
Ion Ratio Lower Upper

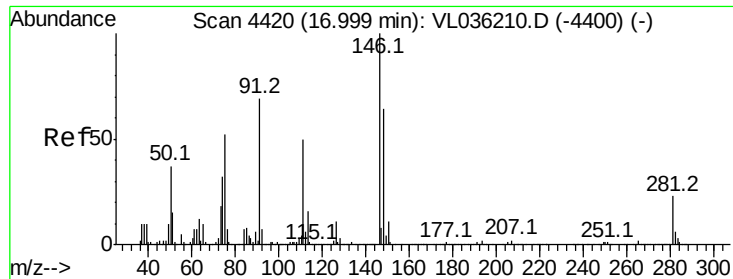
105 100

120 47.9 36.2 54.2

91 54.7 43.3 64.9

77 25.3 19.1 28.7





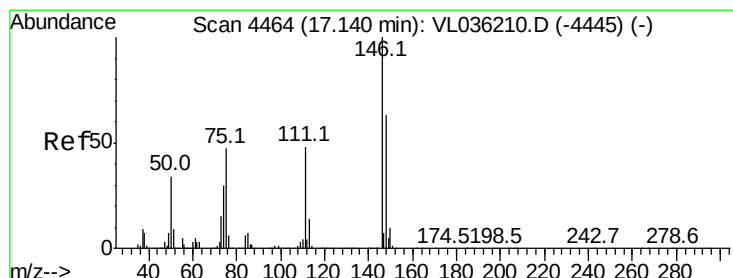
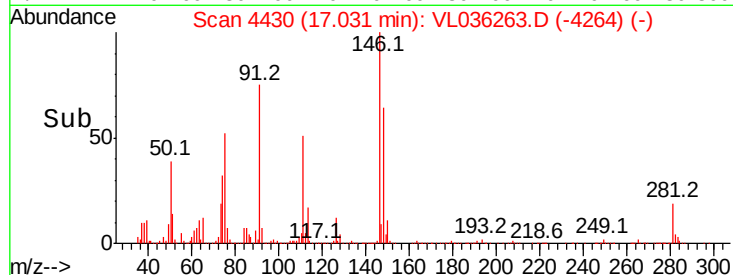
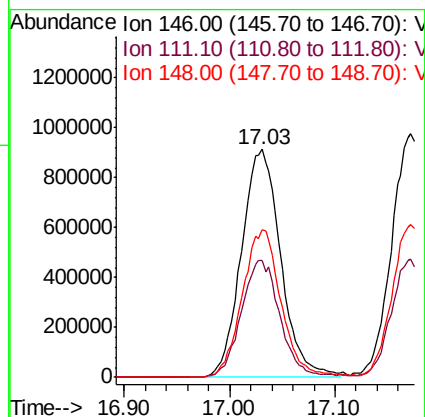
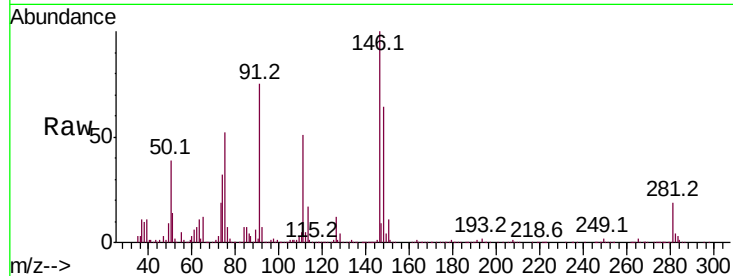
#75  
 1,3-Dichlorobenzene  
 Concen: 9.984 ppbv  
 RT: 17.03 min Scan# 4430  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

Tot Ion:146 Resp: 2368784  
 Ion Ratio Lower Upper  
 146 100  
 111 51.0 25.5 76.5  
 148 64.0 32.4 97.2

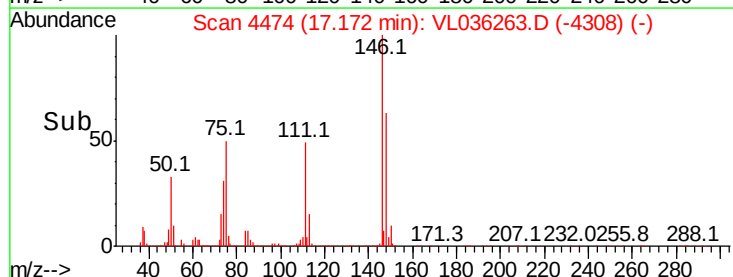
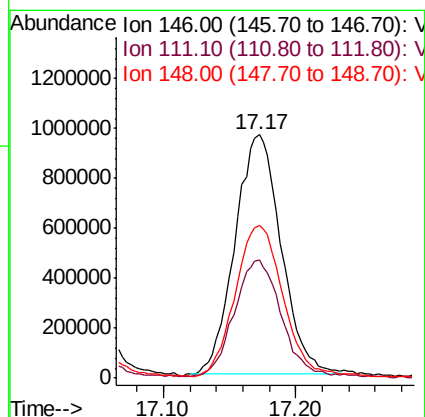
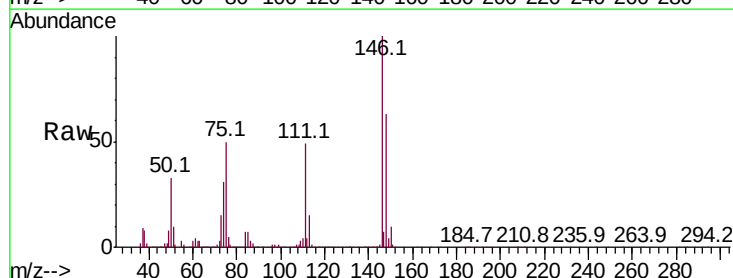
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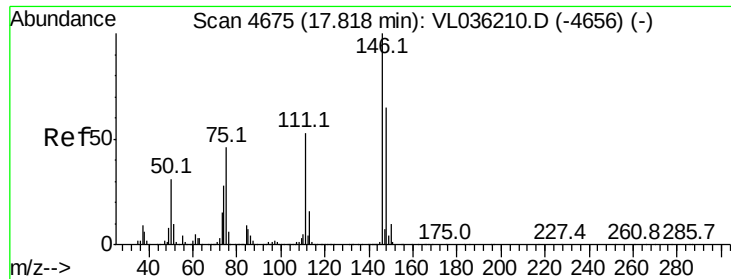
MMDadoda  
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.922 ppbv  
 RT: 17.17 min Scan# 4474  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Tgt Ion:146 Resp: 2325721  
 Ion Ratio Lower Upper  
 146 100  
 111 50.9 25.4 76.0  
 148 67.5 33.3 99.9





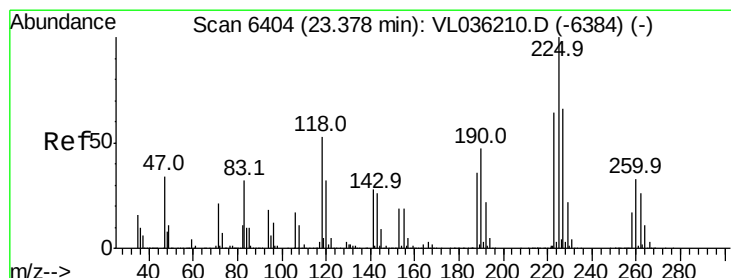
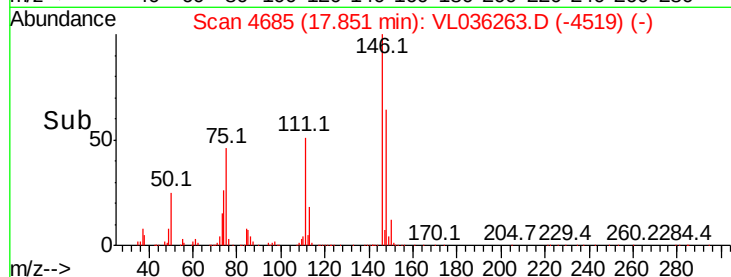
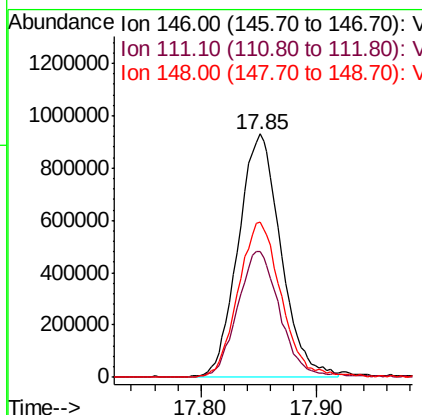
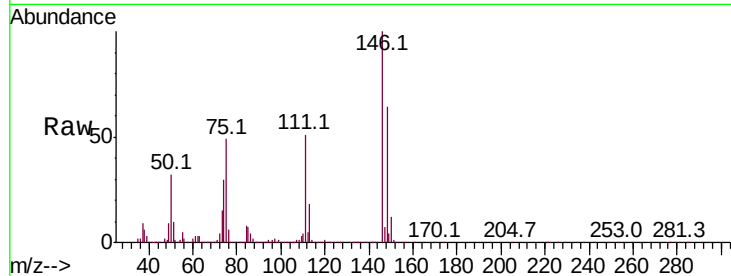
#77  
 1,2-Dichlorobenzene  
 Concen: 10.167 ppbv  
 RT: 17.85 min Scan# 4685  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

Tot Ion:146 Resp: 2356008  
 Ion Ratio Lower Upper  
 146 100  
 111 52.3 26.5 79.4  
 148 64.5 32.8 98.4

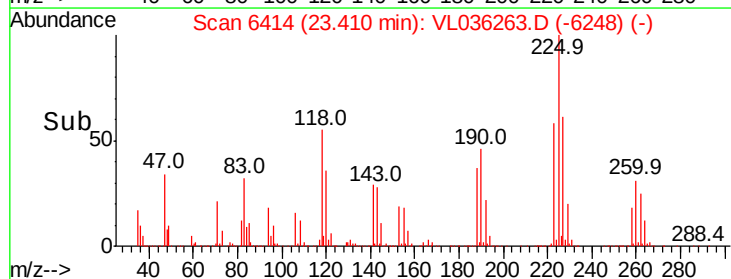
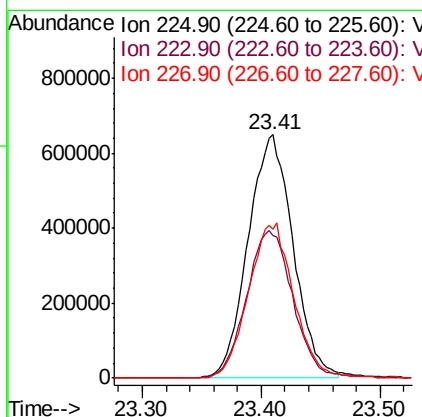
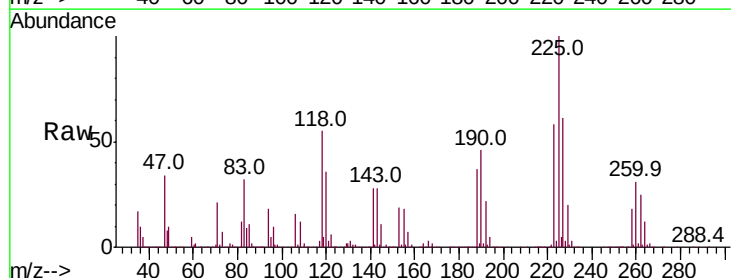
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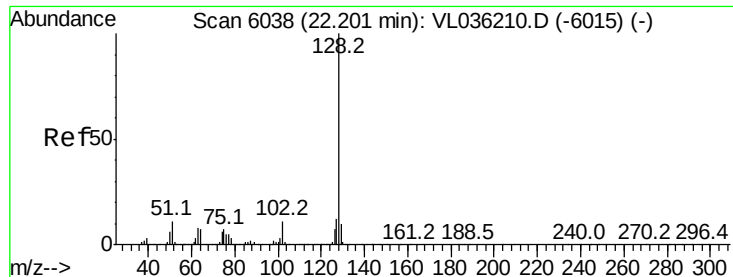
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.159 ppbv  
 RT: 23.41 min Scan# 6414  
 Delta R.T. 0.03 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Tgt Ion:225 Resp: 1697495  
 Ion Ratio Lower Upper  
 225 100  
 223 62.9 50.5 75.7  
 227 64.7 51.7 77.5





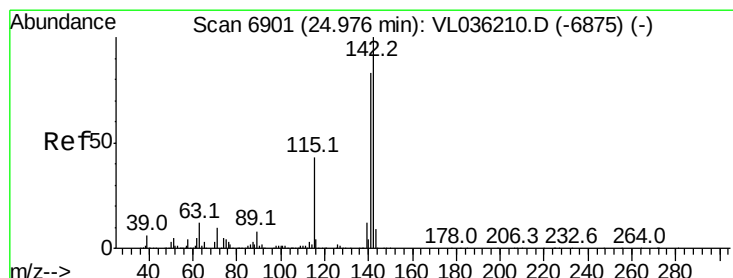
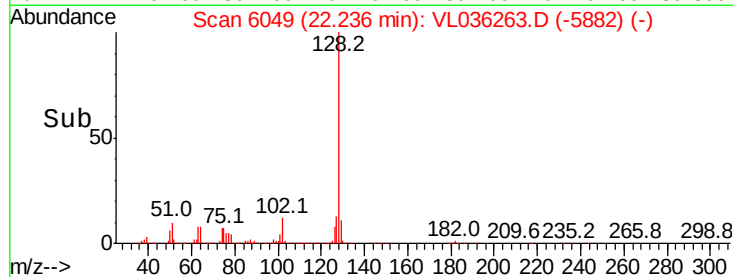
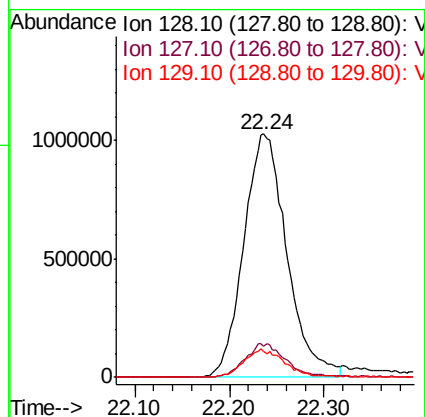
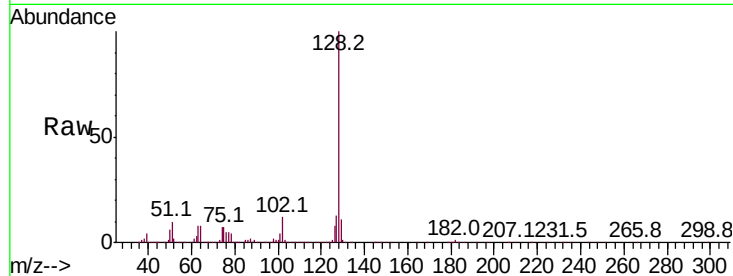
#79  
Naphthalene  
Concen: 12.596 ppbv  
RT: 22.24 min Scan# 6049  
Delta R.T. 0.04 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0122ABS01

|             |               |       |      |
|-------------|---------------|-------|------|
| Tot Ion:128 | Resp: 3257065 |       |      |
| Ion Ratio   | Lower         | Upper |      |
| 128         | 100           |       |      |
| 127         | 13.0          | 9.9   | 14.9 |
| 129         | 10.5          | 8.4   | 12.6 |

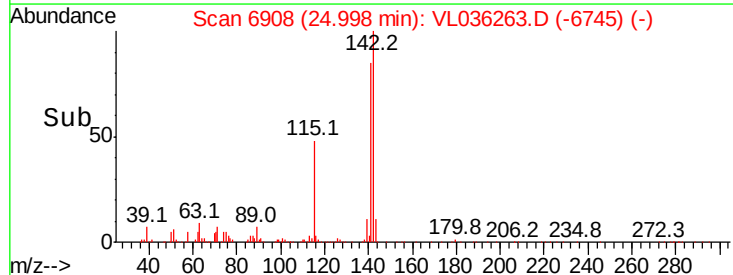
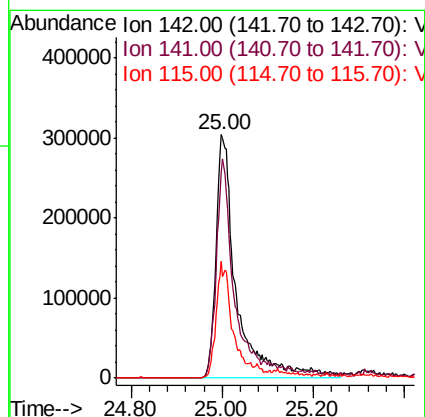
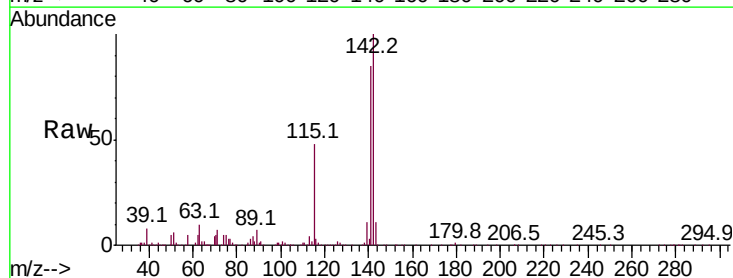
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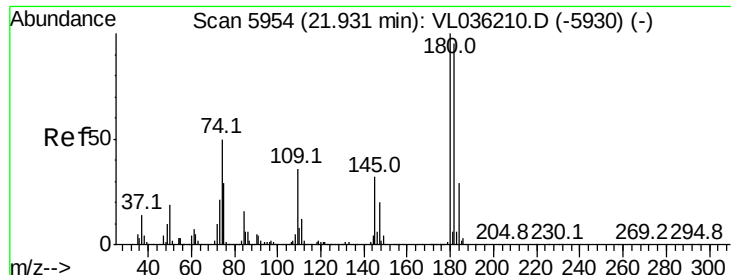
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#80  
Naphthalene, 2-methyl-  
Concen: 17.405 ppbv  
RT: 25.00 min Scan# 6908  
Delta R.T. 0.02 min  
Lab File: VL036263.D  
Acq: 22 Jan 2021 11:55

|             |              |
|-------------|--------------|
| Tgt Ion:142 | Resp: 960323 |
| Ion Ratio   | Lower Upper  |
| 142 100     |              |
| 141 82.9    | 68.6 102.8   |
| 115 43.3    | 32.9 49.3    |





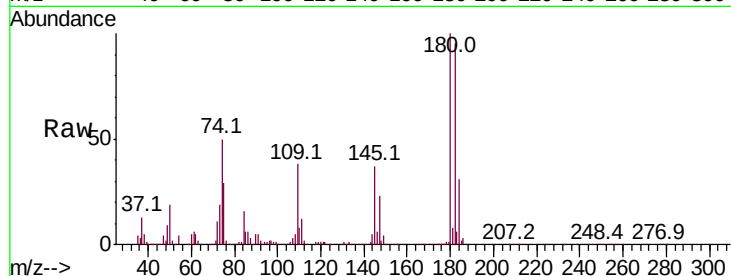
#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.920 ppbv  
 RT: 21.97 min Scan# 5965  
 Delta R.T. 0.04 min  
 Lab File: VL036263.D  
 Acq: 22 Jan 2021 11:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0122ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 99.8  | 79.9  | 119.9 |
| 184     | 31.9  | 25.6  | 38.4  |

Manual Integrations  
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

