

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\  
 Data File : VL036701.D  
 Acq On : 6 Apr 2021 15:47  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 4/12/2021 11:10:50 AM

Quant Time: Apr 07 05:53:19 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 2  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1263749  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 3210769  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 3025131  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2498864  | 10.36    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.60% |

| Target Compounds               |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2128668 | 10.327 ppbv | 99     |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2345270 | 9.933 ppbv  | 100    |
| 4) Chloromethane               | 3.14 | 50  | 821211  | 9.847 ppbv  | 98     |
| 5) Vinyl Chloride              | 3.26 | 62  | 813946  | 9.492 ppbv  | 100    |
| 6) Bromomethane                | 3.47 | 94  | 464852  | 9.846 ppbv  | 95     |
| 7) Chloroethane                | 3.56 | 64  | 276735  | 9.391 ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 1887676 | 9.595 ppbv  | 96     |
| 9) Propene                     | 3.01 | 41  | 755634  | 10.039 ppbv | 97     |
| 10) Heptane                    | 8.13 | 43  | 1995900 | 10.408 ppbv | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 1968927 | 9.373 ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1285469 | 9.571 ppbv  | 100    |
| 13) Ethanol                    | 3.61 | 45  | 75563   | 8.430 ppbv  | 91     |
| 14) Bromoethene                | 3.74 | 108 | 539958  | 9.671 ppbv  | 99     |
| 15) Acetone                    | 3.85 | 43  | 1115831 | 8.971 ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.33 | 39  | 802791  | 9.271 ppbv  | 95     |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 1122644 | 10.368 ppbv | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 568177  | 9.511 ppbv  | 96     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 652857  | 9.542 ppbv  | # 98   |
| 20) Methylene Chloride         | 4.35 | 84  | 496458  | 8.525 ppbv  | 93     |
| 21) Allyl Chloride             | 4.42 | 41  | 952580  | 9.607 ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 536517  | 9.687 ppbv  | 97     |
| 23) Vinyl Acetate              | 5.08 | 43  | 2056921 | 9.668 ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1540784 | 9.935 ppbv  | 100    |
| 25) Ethyl Acetate              | 5.68 | 43  | 2987451 | 10.103 ppbv | 100    |
| 26) Hexane                     | 5.69 | 57  | 1410672 | 10.280 ppbv | 99     |
| 27) Carbon Disulfide           | 4.56 | 76  | 1364312 | 10.092 ppbv | 98     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1636936 | 10.115 ppbv | 99     |
| 29) Chloroform                 | 5.76 | 83  | 2219383 | 10.113 ppbv | 100    |
| 30) Cyclohexane                | 7.14 | 84  | 1187538 | 10.670 ppbv | 99     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1363692 | 10.274 ppbv | 95     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2225015 | 10.060 ppbv | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 1484207 | 9.470 ppbv  | 98     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2362504 | 9.580 ppbv  | 99     |
| 36) Benzene                    | 6.90 | 78  | 2916668 | 9.850 ppbv  | 98     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1676861 | 9.621 ppbv  | 100    |
| 38) Trichloroethene            | 7.85 | 130 | 1081668 | 9.386 ppbv  | 95     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1124946 | 9.365 ppbv  | 95     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 239362  | 8.562 ppbv  | # 1    |
| 41) Tetrahydrofuran            | 6.06 | 42  | 675340  | 9.345 ppbv  | 93     |
| 42) Bromodichloromethane       | 7.80 | 83  | 2383835 | 10.056 ppbv | 99     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1027932 | 10.338 ppbv | 98     |

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Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

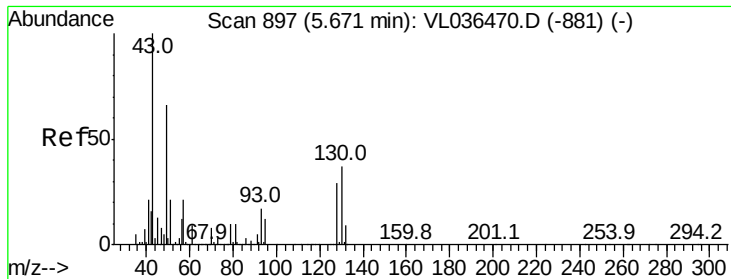
MMDadoda  
 4/12/2021 11:10:50 AM

Quant Time: Apr 07 05:53:19 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 2  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 4943954  | 9.486  | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1210490  | 10.661 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1527928  | 10.527 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1199003  | 9.855  | ppbv  | 97       |
| 48) Dibromochloromethane      | 10.31 | 129  | 1961081  | 10.574 | ppbv  | 98       |
| 49) Bromoform                 | 13.05 | 173  | 1606471  | 10.750 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2307487  | 10.175 | ppbv  | 100      |
| 51) 2-Hexanone                | 10.15 | 43   | 1207383m | 10.550 | ppbv  |          |
| 52) Tetrachloroethene         | 11.23 | 164  | 1001046  | 9.180  | ppbv  | 98       |
| 53) Toluene                   | 9.82  | 91   | 3283745  | 10.413 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1726773  | 10.050 | ppbv  | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 1329032  | 9.713  | ppbv  | 98       |
| 57) Chlorobenzene             | 12.16 | 112  | 2452482  | 9.528  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.73 | 91   | 4452657  | 10.117 | ppbv  | 99       |
| 59) m/p-Xylene                | 13.01 | 91   | 7492634m | 19.518 | ppbv  |          |
| 60) o-Xylene                  | 13.71 | 91   | 3578132  | 9.640  | ppbv  | 99       |
| 61) Styrene                   | 13.54 | 104  | 2095076  | 11.219 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.68 | 105  | 4823857  | 9.651  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 2575700  | 9.097  | ppbv  | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 1267483  | 10.372 | ppbv  | 100      |
| 65) tert-Butylbenzene         | 16.76 | 119  | 4211350  | 9.716  | ppbv  | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 445917m  | 9.308  | ppbv  |          |
| 67) sec-Butylbenzene          | 17.31 | 105  | 5970823  | 9.759  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 4948810  | 10.358 | ppbv  | 99       |
| 70) n-Butylbenzene            | 18.57 | 91   | 5065848  | 10.226 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 3757370  | 10.032 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.86 | 105  | 4214408  | 10.362 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 3842165  | 10.121 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 3971733  | 9.777  | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 2292439  | 10.026 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 2213677  | 9.751  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 2173838  | 10.114 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 1637433  | 8.507  | ppbv  | 100      |
| 79) Naphthalene               | 22.22 | 128  | 2586794  | 10.913 | ppbv  | 99       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 493932   | 10.567 | ppbv  | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.95 | 180  | 1506331  | 10.292 | ppbv  | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1263749

Ion Ratio Lower Upper

49 100

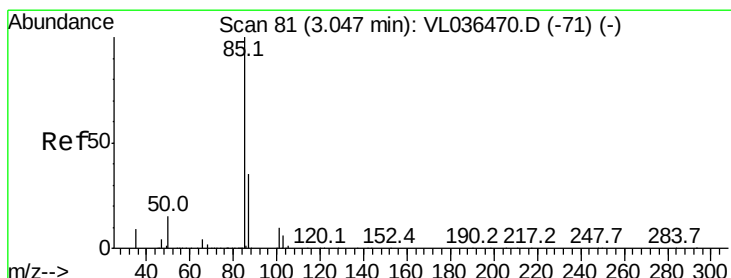
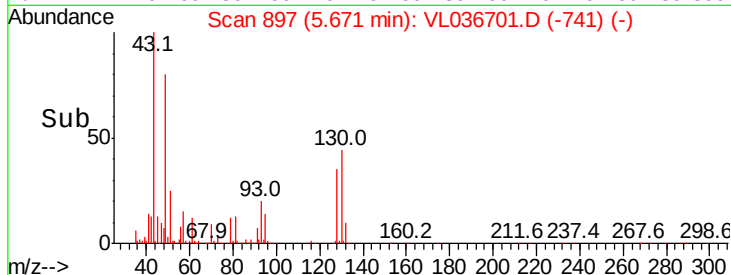
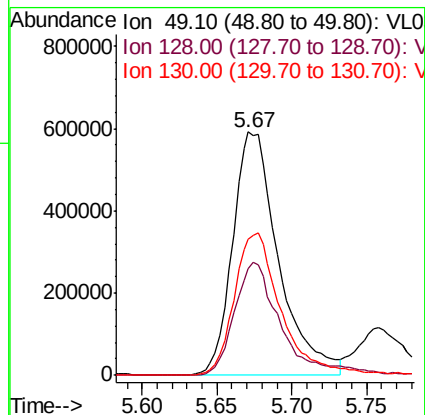
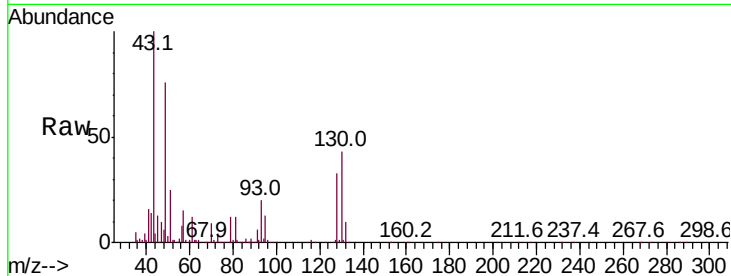
128 48.8 23.5 70.6

130 60.5 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 10.327 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036701.D

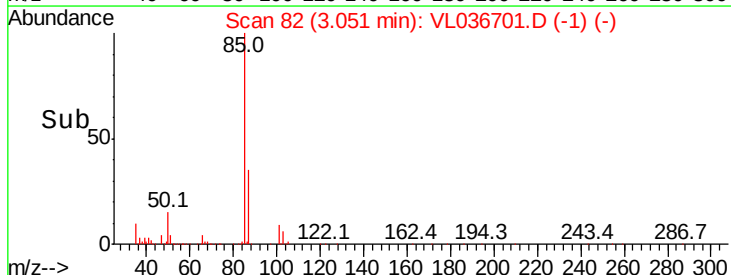
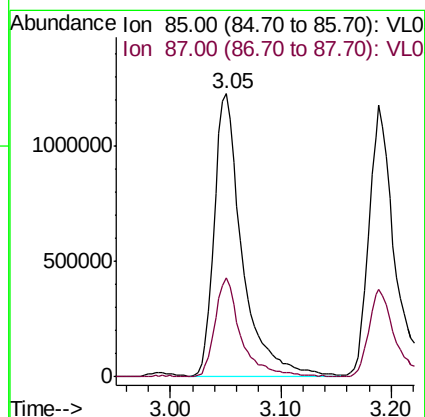
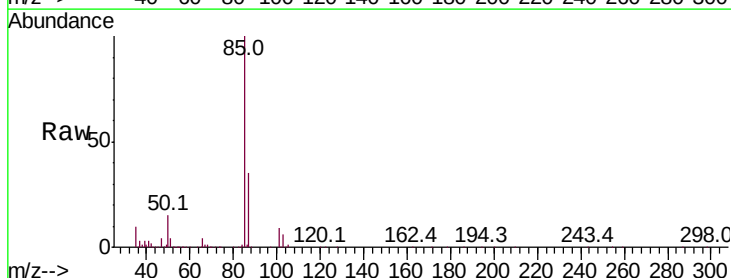
Acq: 6 Apr 2021 15:47

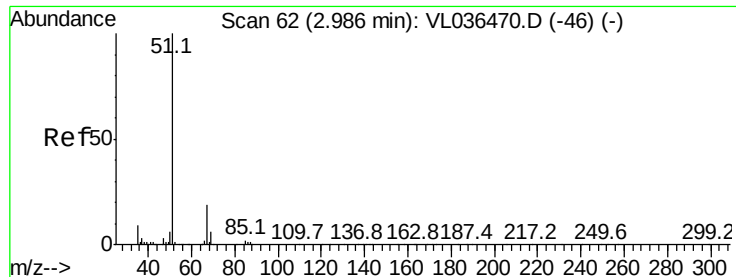
Tgt Ion: 85 Resp: 2128668

Ion Ratio Lower Upper

85 100

87 35.1 27.8 41.8





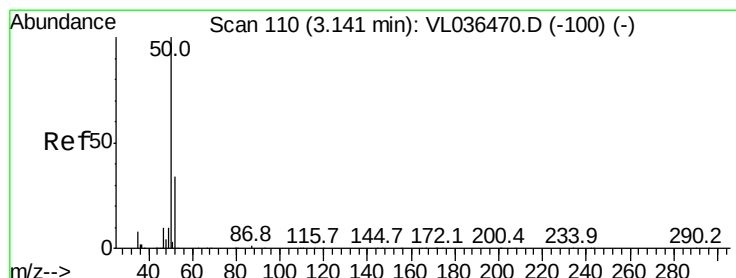
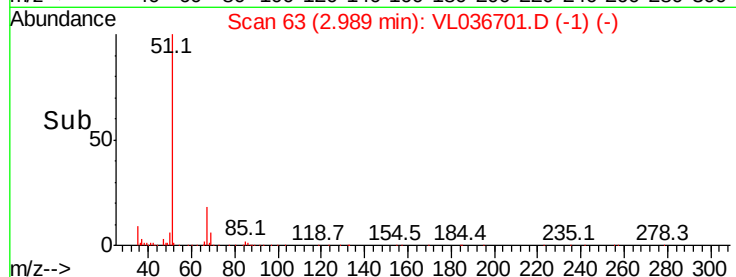
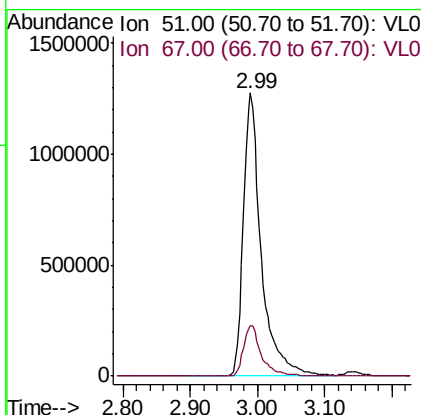
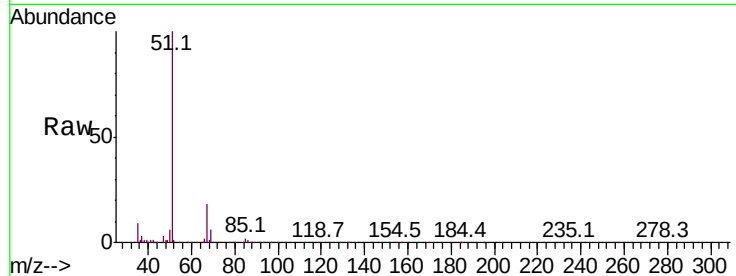
#3  
Chlorodifluoromethane  
Concen: 9.933 ppbv  
RT: 2.99 min Scan# 63  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 51 Resp: 2345270  
Ion Ratio Lower Upper  
51 100  
67 18.2 14.7 22.1

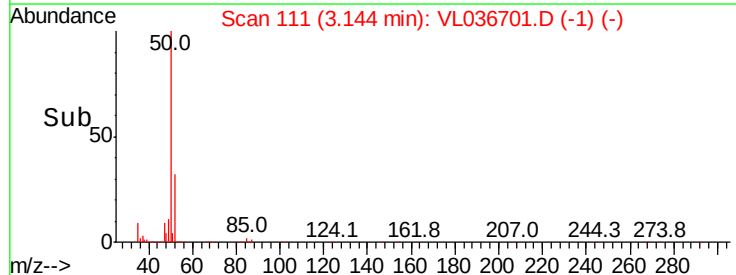
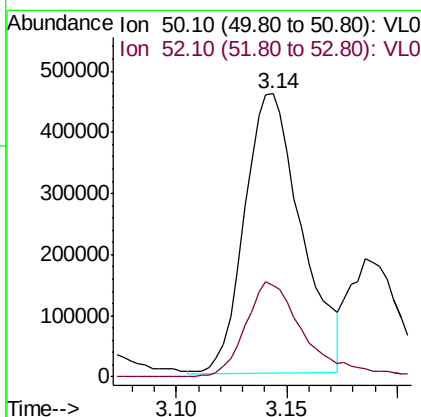
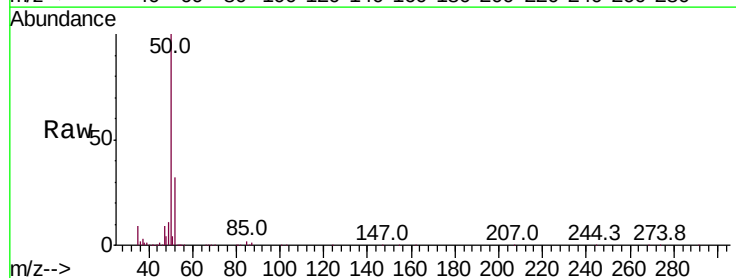
Manual Integrations  
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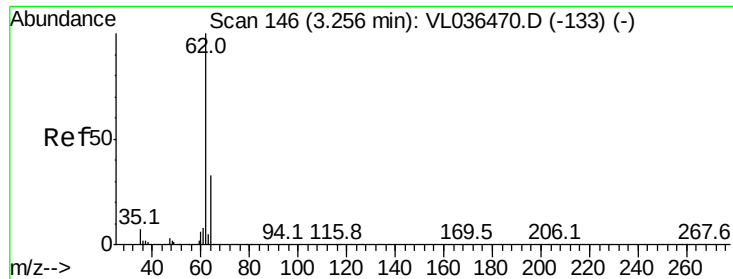
MMDadoda  
4/12/2021 11:10:50 AM



#4  
Chloromethane  
Concen: 9.847 ppbv  
RT: 3.14 min Scan# 111  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Tgt Ion: 50 Resp: 821211  
Ion Ratio Lower Upper  
50 100  
52 32.7 27.0 40.6





#5

Vinyl Chloride

Concen: 9.492 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 813946

Ion Ratio Lower Upper

62 100

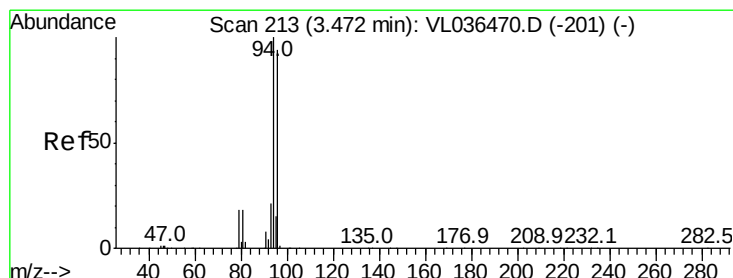
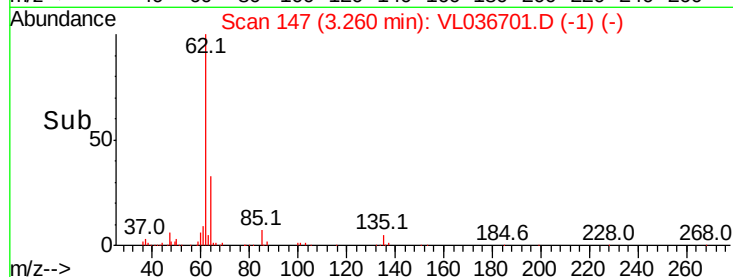
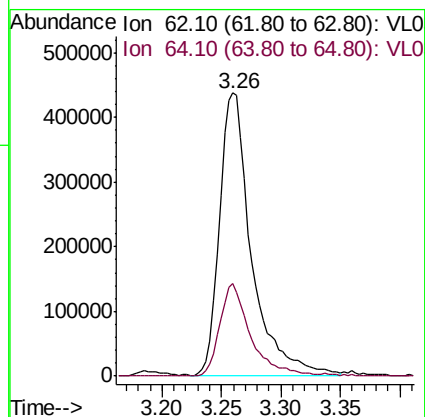
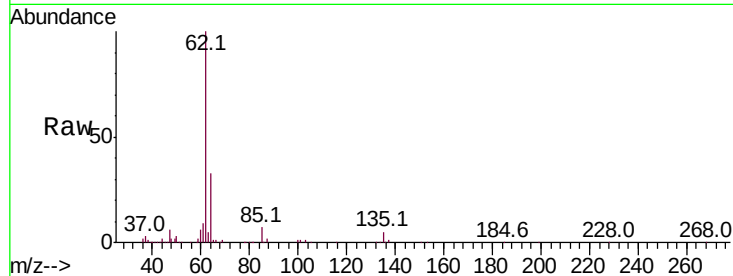
64 32.8 26.4 39.6

Manual Integrations

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4/12/2021 11:10:50 AM



#6

Bromomethane

Concen: 9.846 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL036701.D

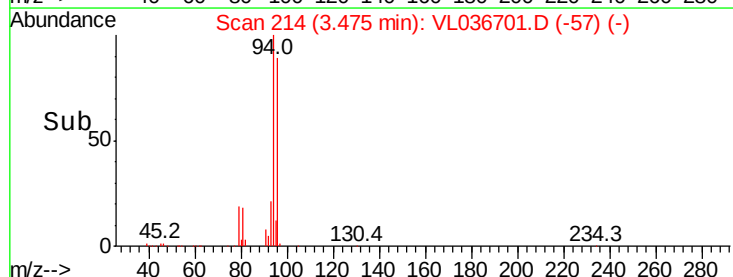
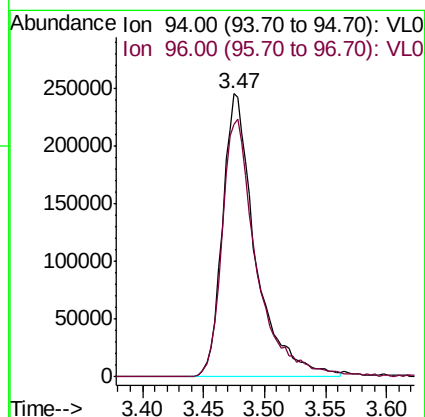
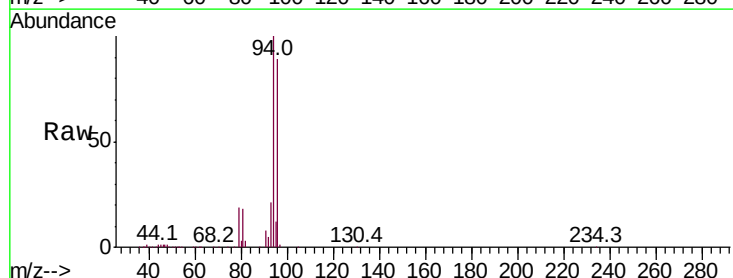
Acq: 6 Apr 2021 15:47

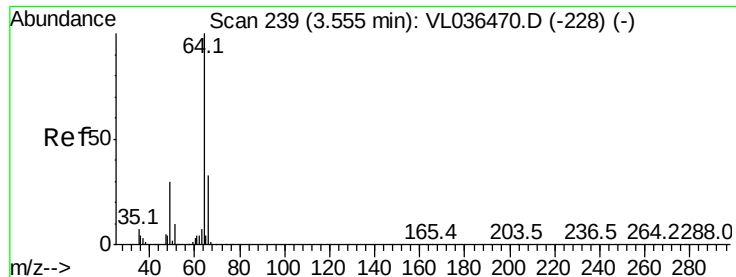
Tgt Ion: 94 Resp: 464852

Ion Ratio Lower Upper

94 100

96 89.2 74.9 112.3





#7

Chloroethane

Concen: 9.391 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 276735

Ion Ratio Lower Upper

64 100

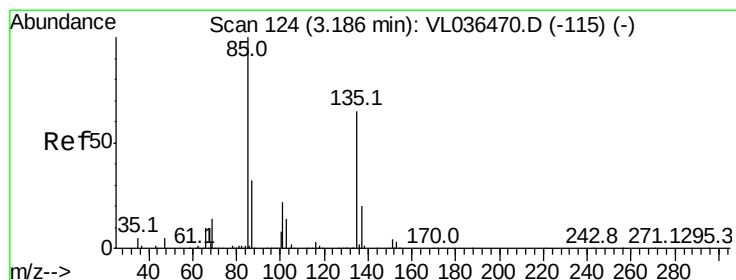
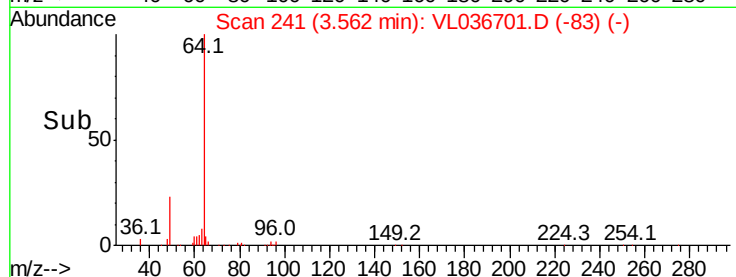
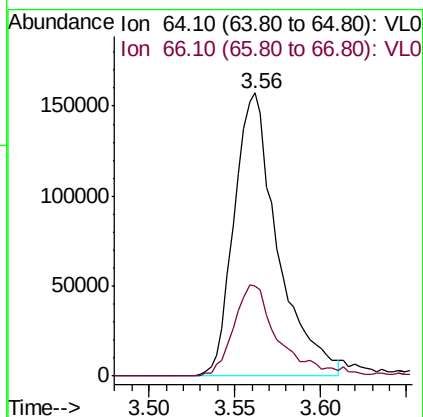
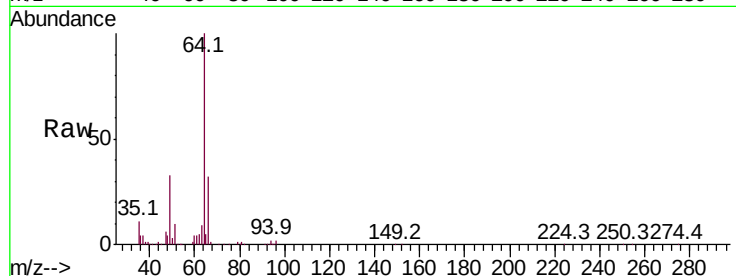
66 31.9 26.2 39.2

Manual Integrations

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4/12/2021 11:10:50 AM



#8

Dichlorotetrafluoroethane

Concen: 9.595 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL036701.D

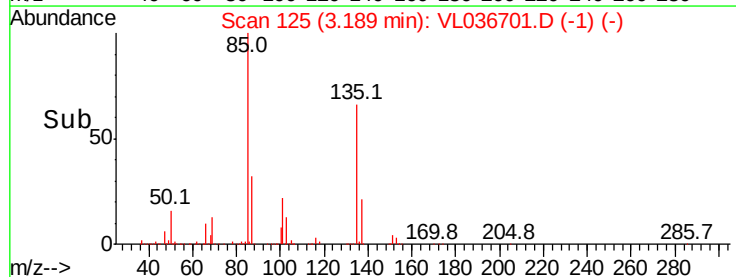
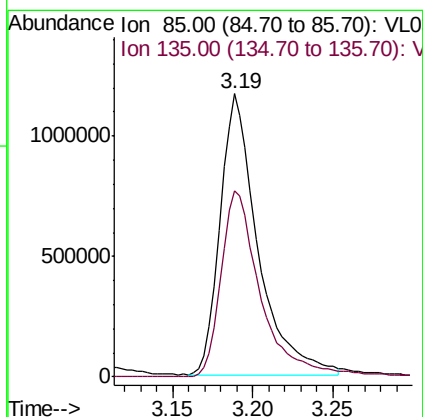
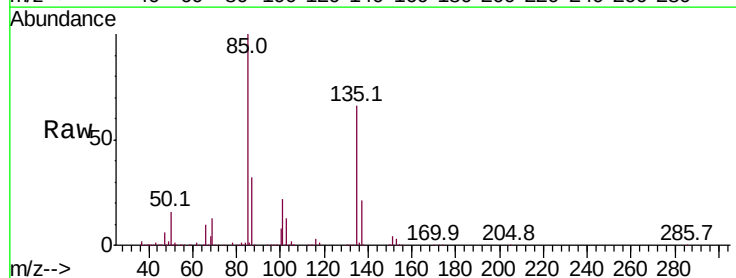
Acq: 6 Apr 2021 15:47

Tgt Ion: 85 Resp: 1887676

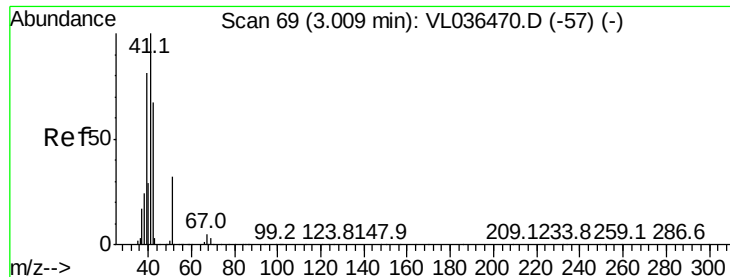
Ion Ratio Lower Upper

85 100

135 71.1 54.3 81.5







#9

Propene

Concen: 10.039 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 755634

Ion Ratio Lower Upper

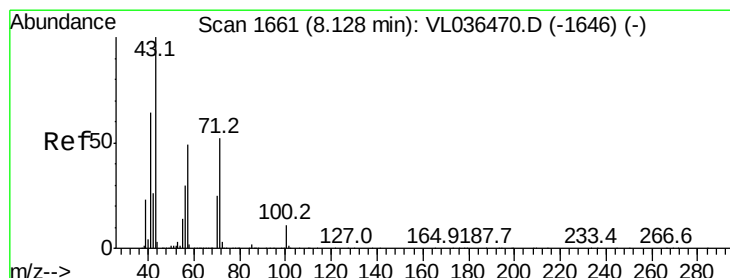
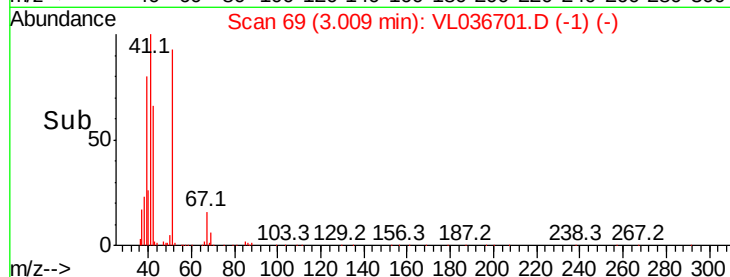
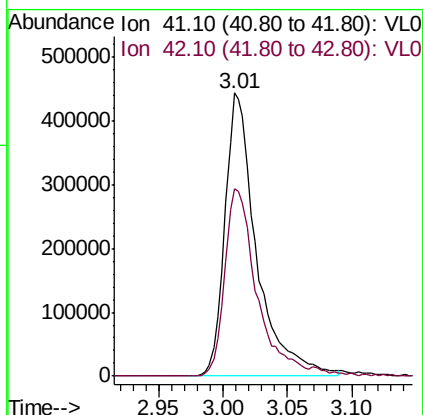
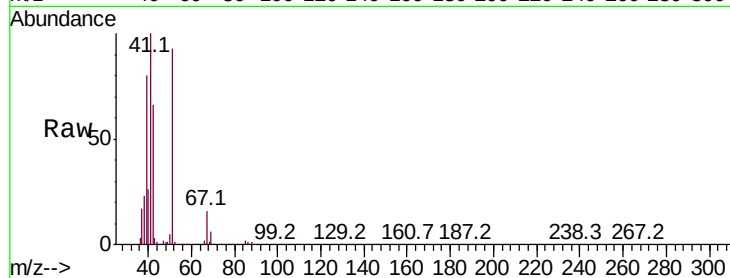
41 100

42 69.1 57.0 85.4

Manual Integrations  
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4/12/2021 11:10:50 AM



#10

Heptane

Concen: 10.408 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL036701.D

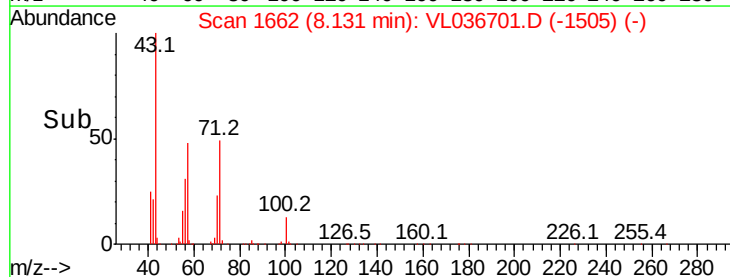
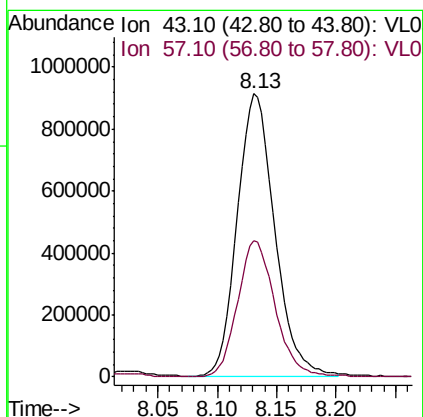
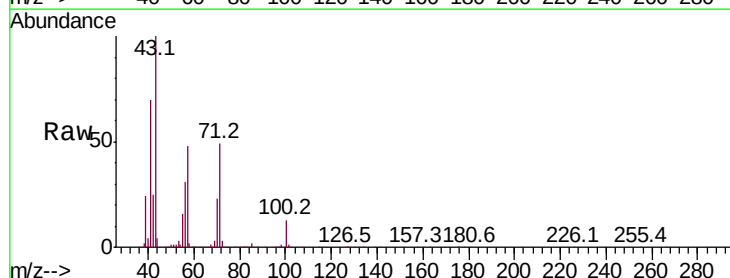
Acq: 6 Apr 2021 15:47

Tgt Ion: 43 Resp: 1995900

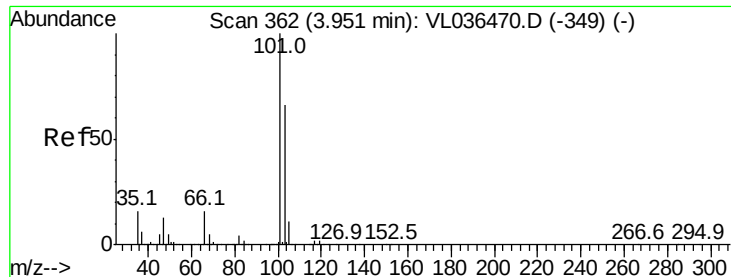
Ion Ratio Lower Upper

43 100

57 48.3 39.0 58.6







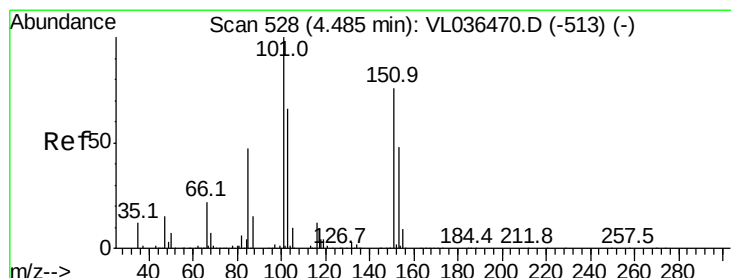
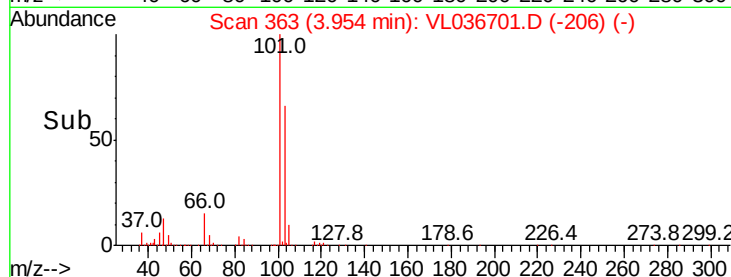
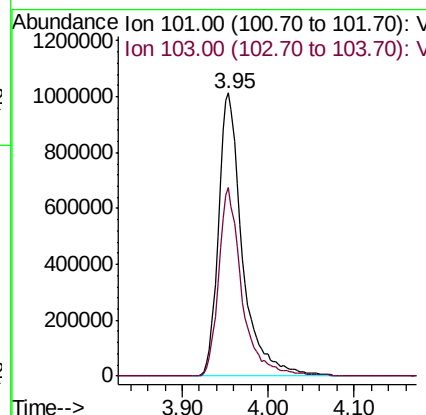
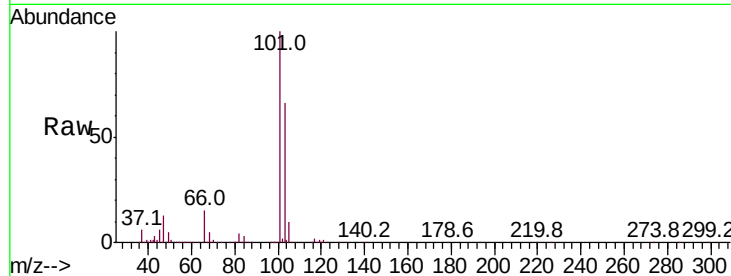
#11  
 Trichlorofluoromethane  
 Concen: 9.373 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:101 Resp: 1968927  
 Ion Ratio Lower Upper  
 101 100  
 103 66.5 52.5 78.7

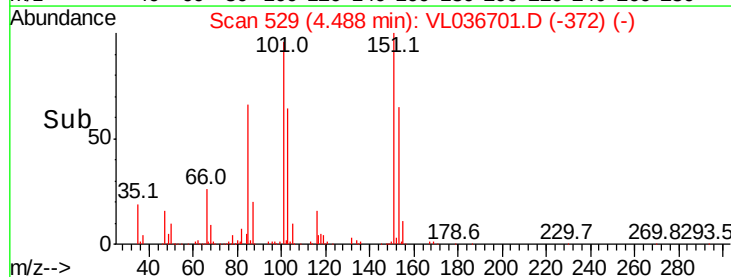
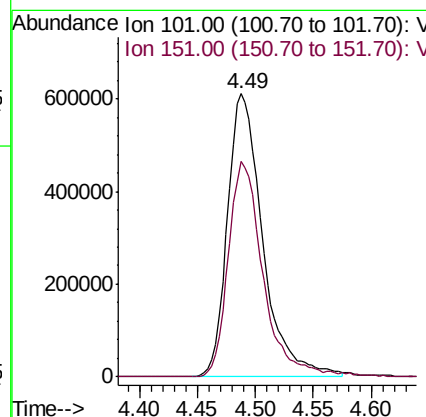
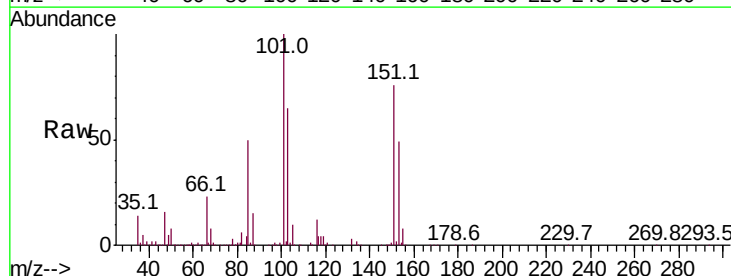
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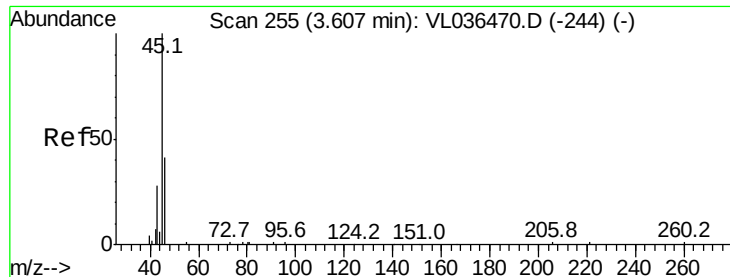
MMDadoda  
 4/12/2021 11:10:50 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.571 ppbv  
 RT: 4.49 min Scan# 529  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Tgt Ion:101 Resp: 1285469  
 Ion Ratio Lower Upper  
 101 100  
 151 75.9 60.9 91.3





#13

Ethanol

Concen: 8.430 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 75563

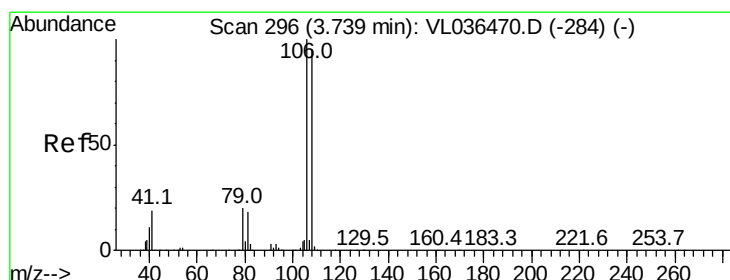
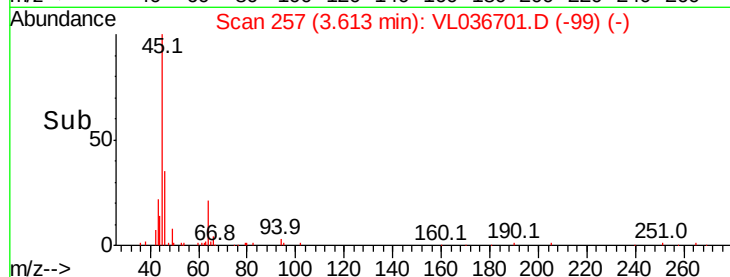
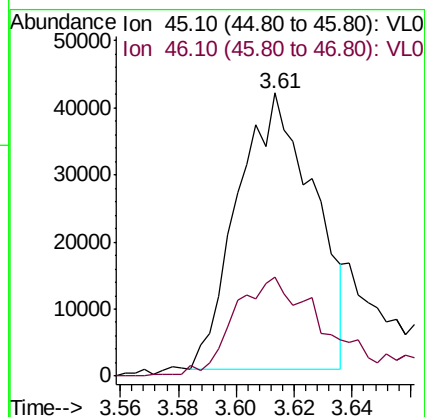
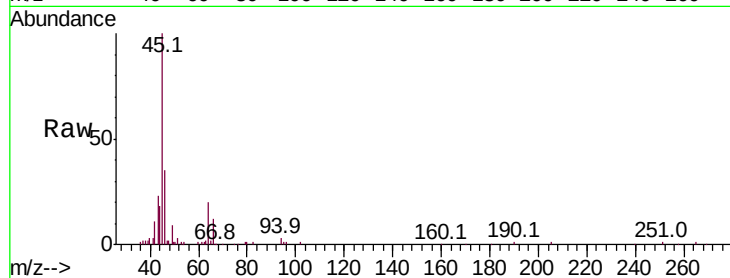
Ion Ratio Lower Upper

45 100

46 46.9 16.6 66.2

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#14

Bromoethene

Concen: 9.671 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

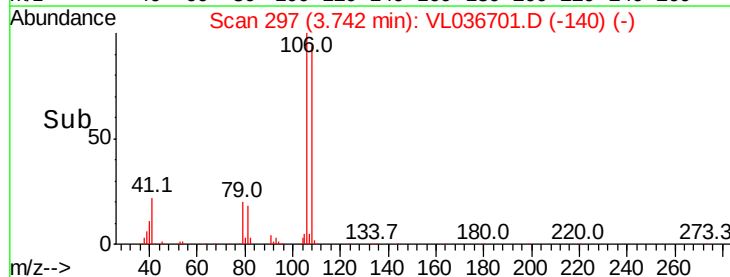
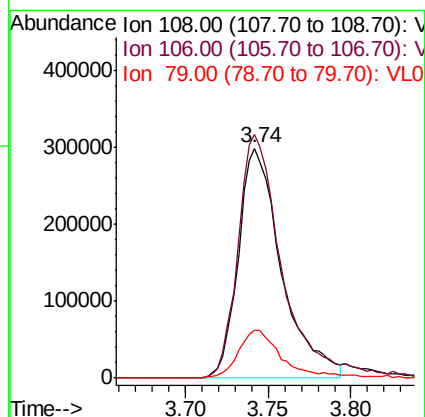
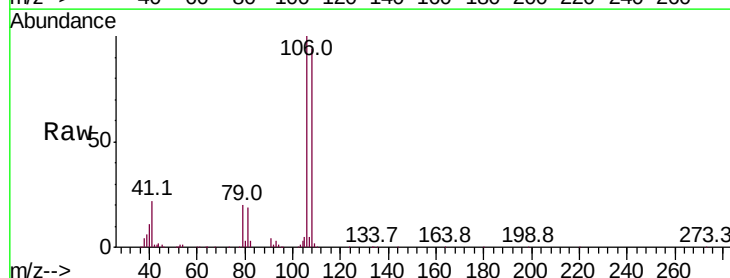
Tgt Ion: 108 Resp: 539958

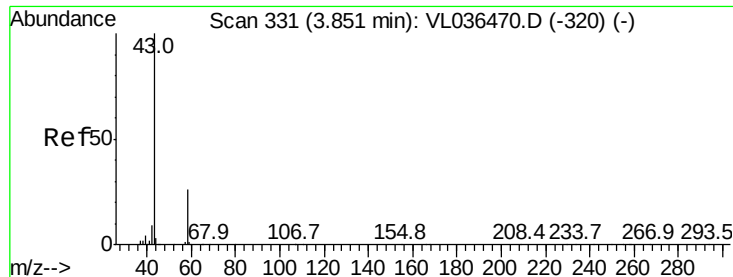
Ion Ratio Lower Upper

108 100

106 110.8 89.0 133.6

79 22.2 16.6 25.0





#15

Acetone

Concen: 8.971 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1115831

Ion Ratio Lower Upper

43 100

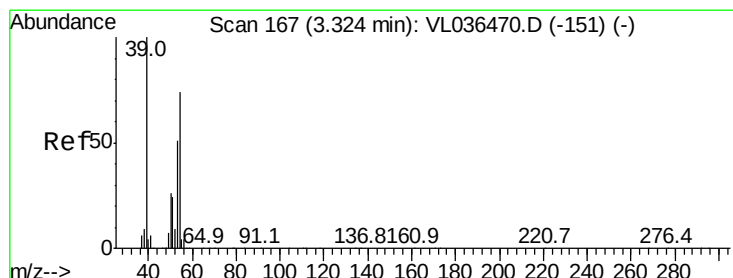
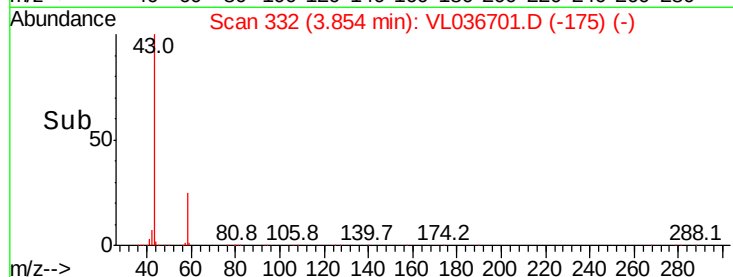
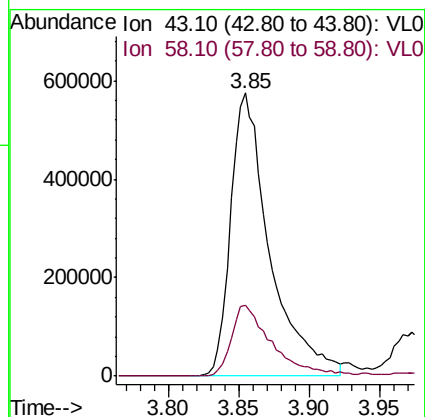
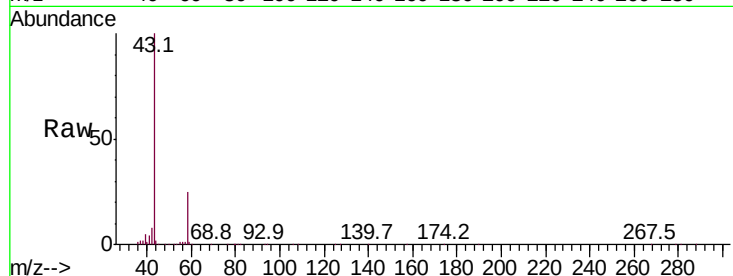
58 26.4 21.2 31.8

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.271 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL036701.D

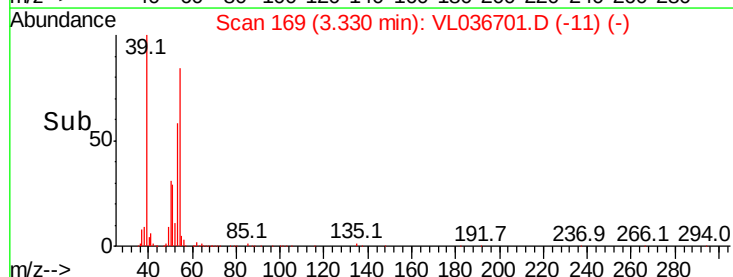
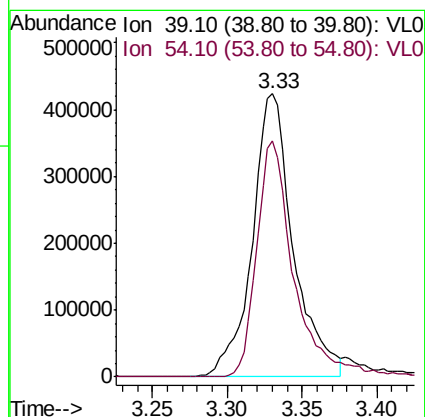
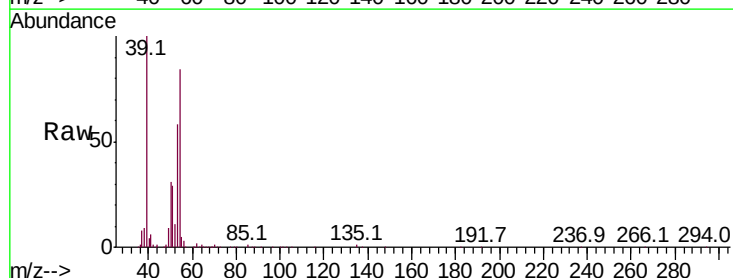
Acq: 6 Apr 2021 15:47

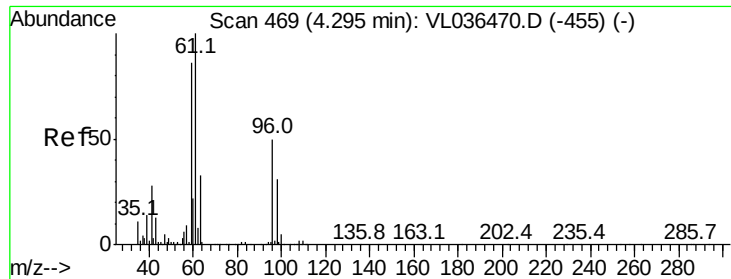
Tgt Ion: 39 Resp: 802791

Ion Ratio Lower Upper

39 100

54 77.4 58.8 88.2





#17

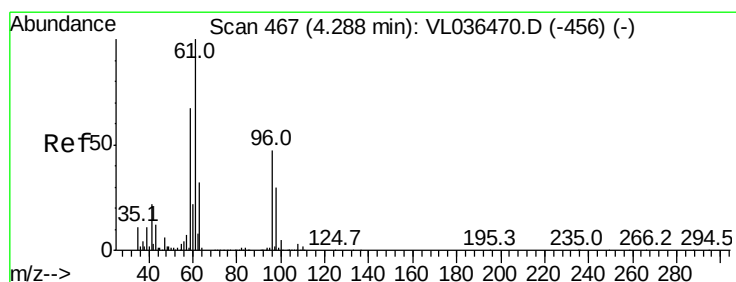
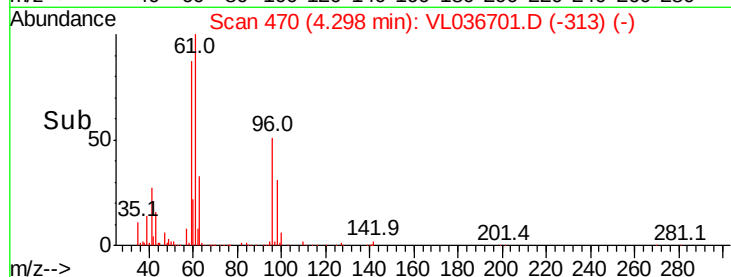
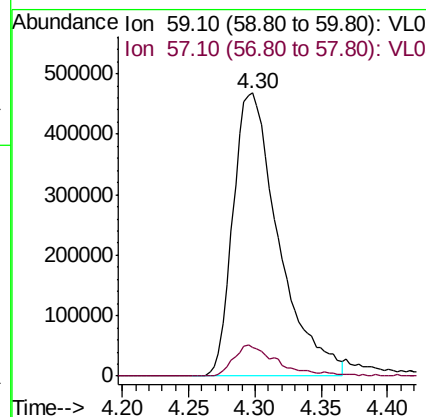
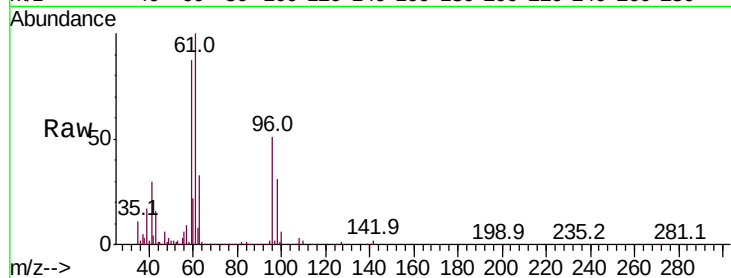
tert-Butyl alcohol  
 Concen: 10.368 ppbv  
 RT: 4.30 min Scan# 470  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 59 Resp: 1122644  
 Ion Ratio Lower Upper  
 59 100  
 57 10.9 8.6 12.8

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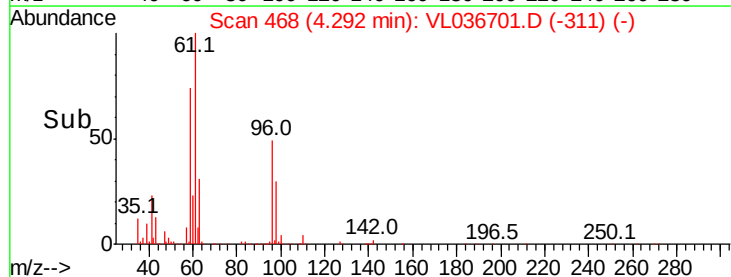
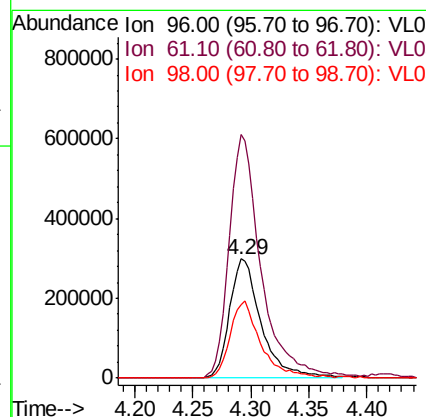
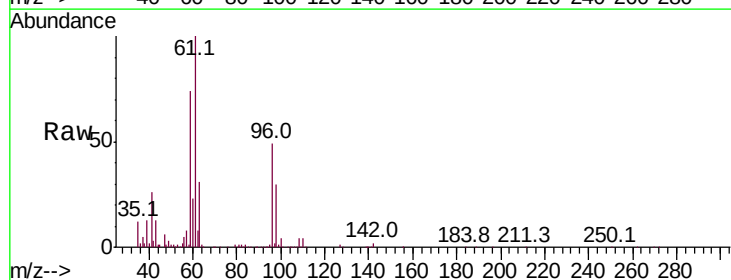
MMDadoda  
 4/12/2021 11:10:50 AM

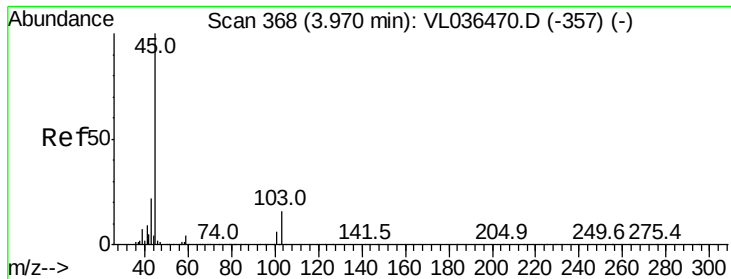


#18

1,1-Dichloroethene  
 Concen: 9.511 ppbv  
 RT: 4.29 min Scan# 468  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Tgt Ion: 96 Resp: 568177  
 Ion Ratio Lower Upper  
 96 100  
 61 204.6 168.6 253.0  
 98 61.3 50.8 76.2





#19

Isopropyl Alcohol

Concen: 9.542 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 652857

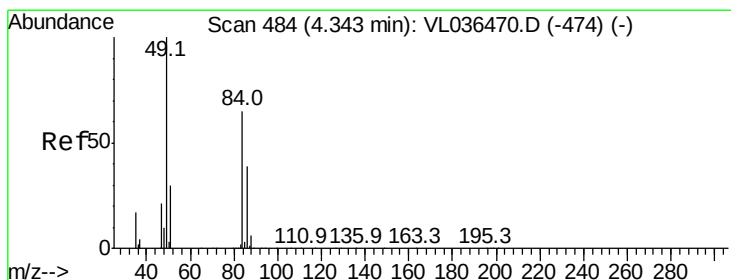
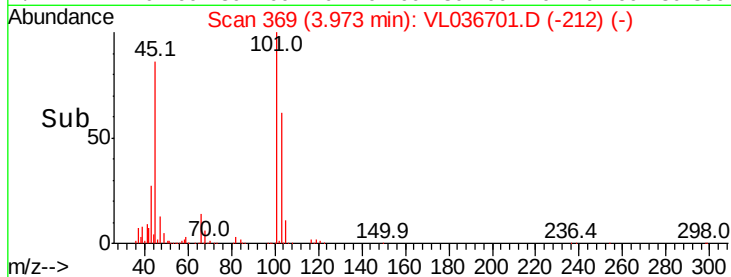
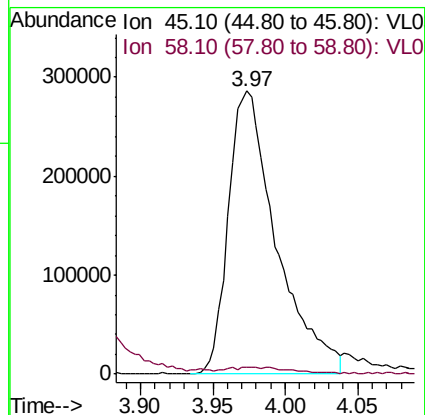
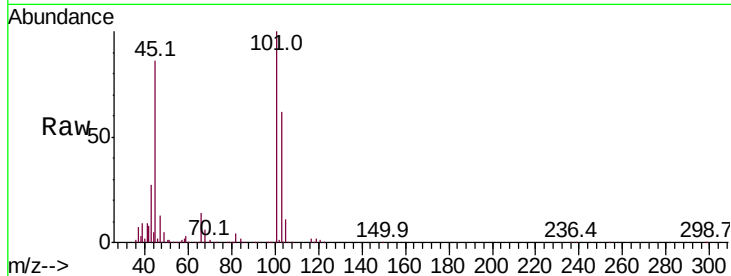
Ion Ratio Lower Upper

45 100

58 2.8 2.9 4.3#

Manual Integrations  
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#20

Methylene Chloride

Concen: 8.525 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Tgt Ion: 84 Resp: 496458

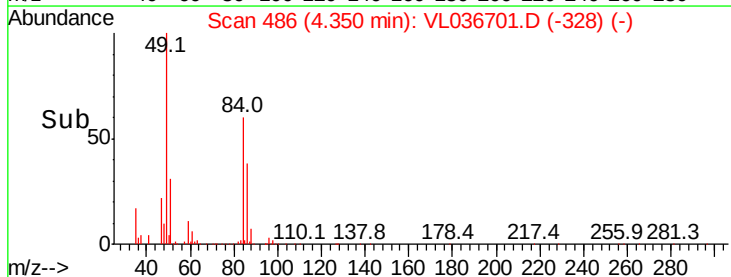
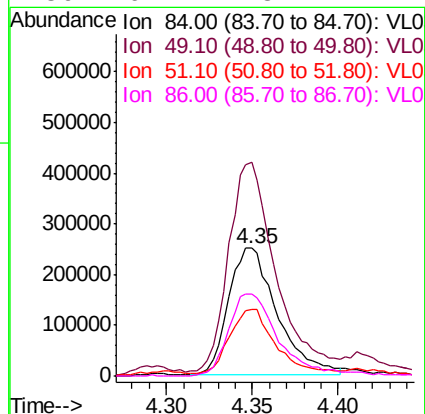
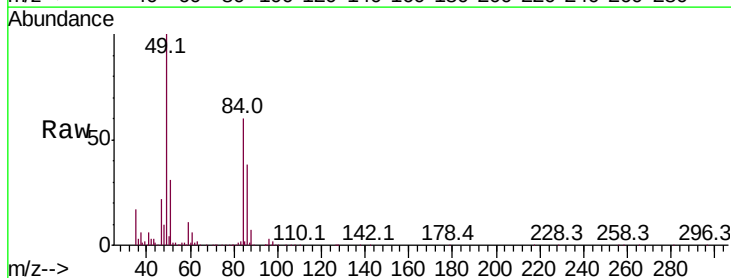
Ion Ratio Lower Upper

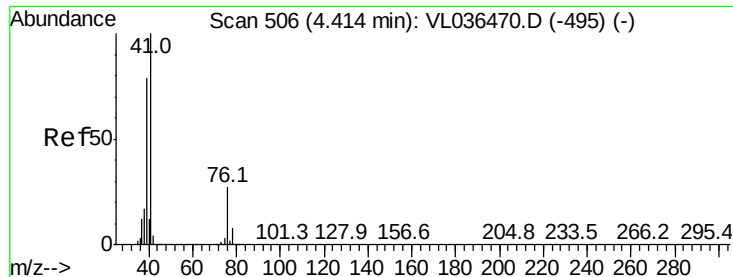
84 100

49 164.3 122.9 184.3

51 50.4 36.9 55.3

86 64.1 48.2 72.4





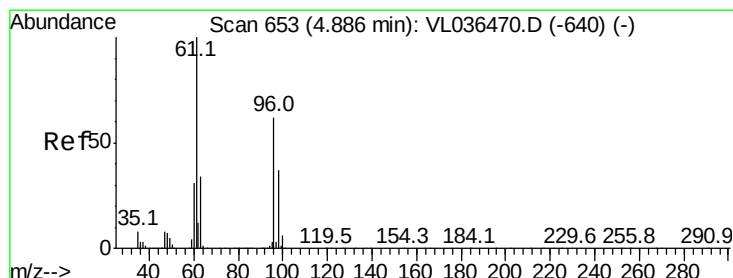
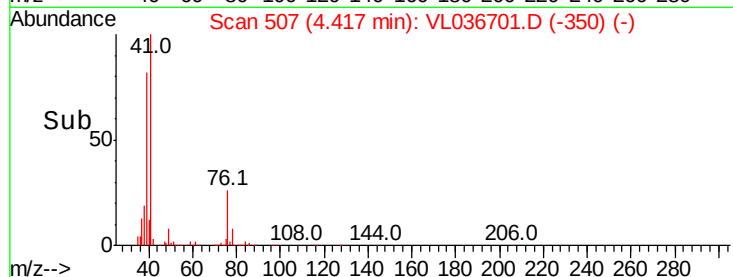
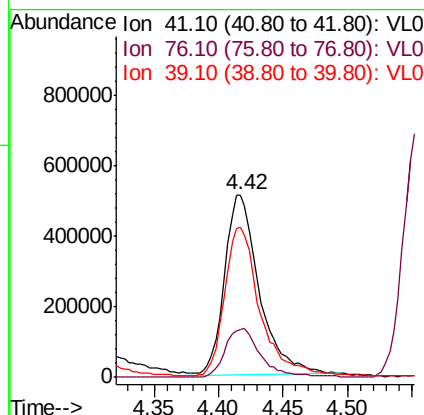
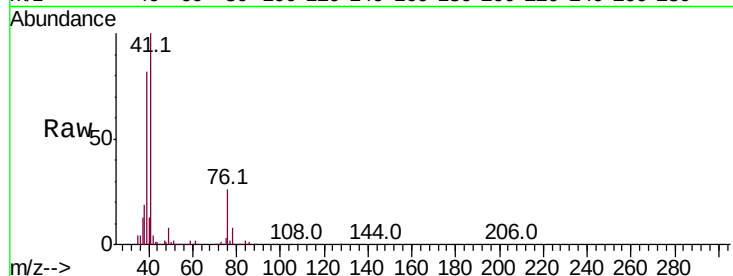
#21  
Allvl Chloride  
Concen: 9.607 ppbv  
RT: 4.42 min Scan# 507  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 28.2  | 22.9  | 34.3  |
| 39      | 85.4  | 67.3  | 100.9 |

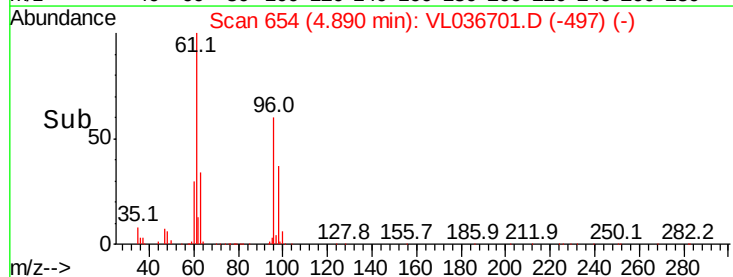
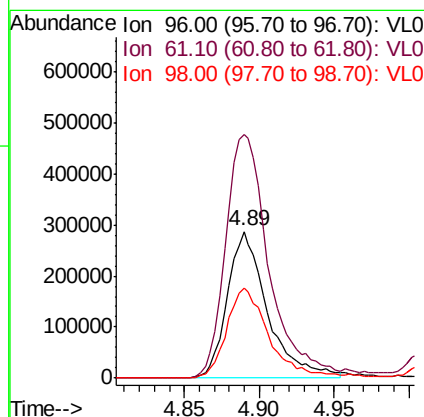
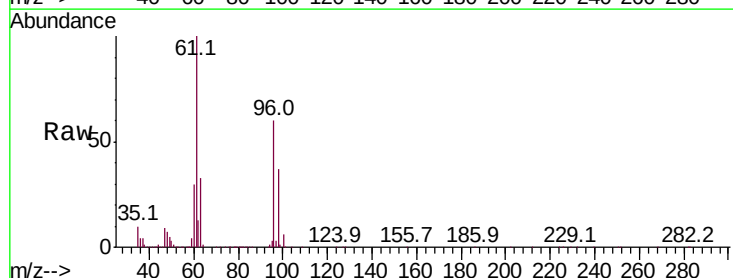
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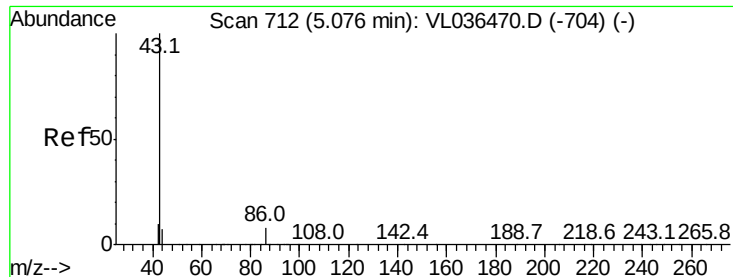
MMDadoda  
4/12/2021 11:10:50 AM



#22  
trans-1,2-Dichloroethene  
Concen: 9.687 ppbv  
RT: 4.89 min Scan# 654  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 166.0 | 129.4 | 194.0 |
| 98      | 61.3  | 48.2  | 72.4  |





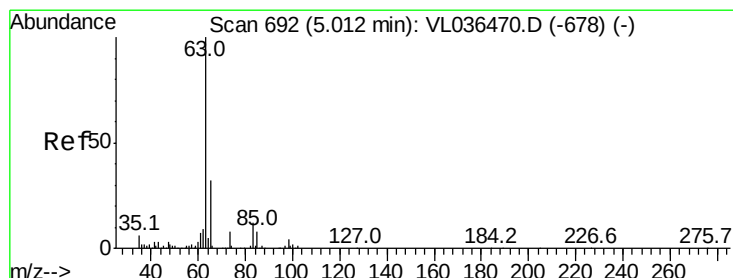
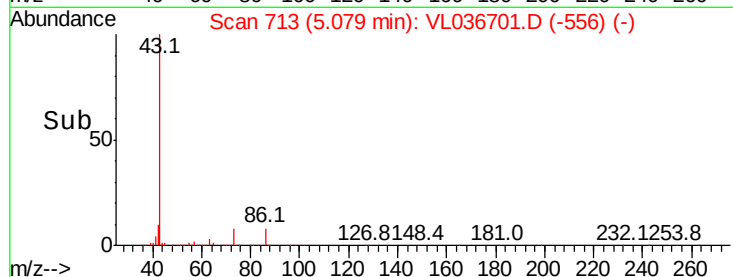
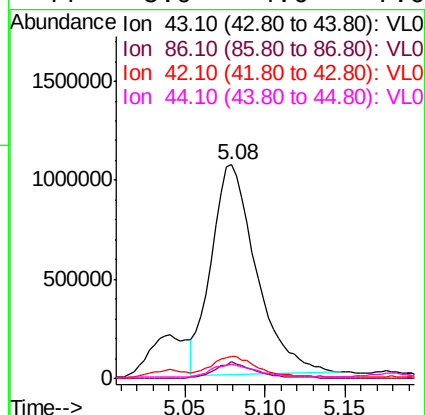
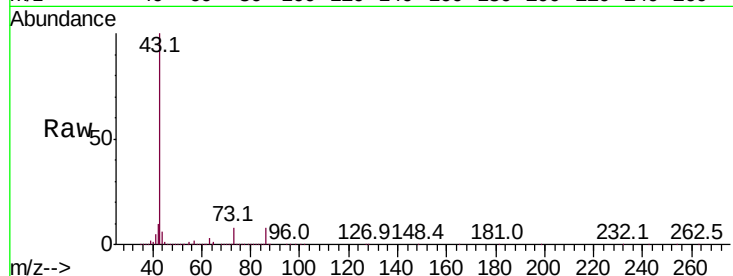
#23  
 Vinyl Acetate  
 Concen: 9.668 ppbv  
 RT: 5.08 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | 43    | Resp  | 2056921 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 43      | 100   |       |         |
| 86      | 7.6   | 5.4   | 8.0     |
| 42      | 10.4  | 8.5   | 12.7    |
| 44      | 5.9   | 4.6   | 7.0     |

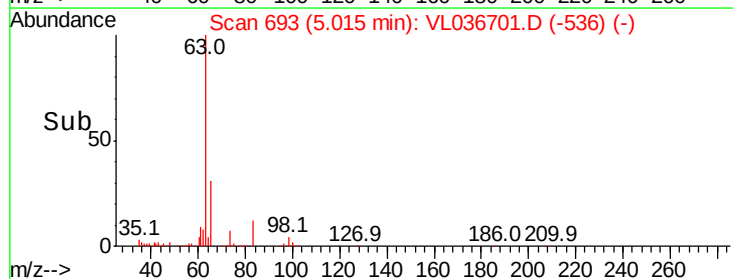
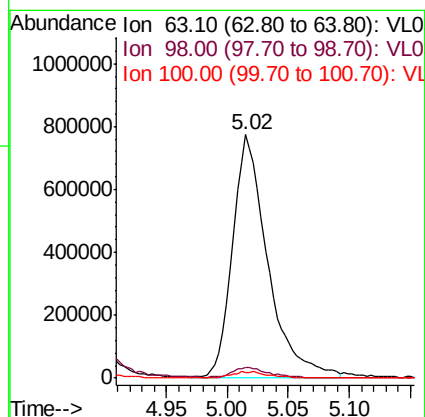
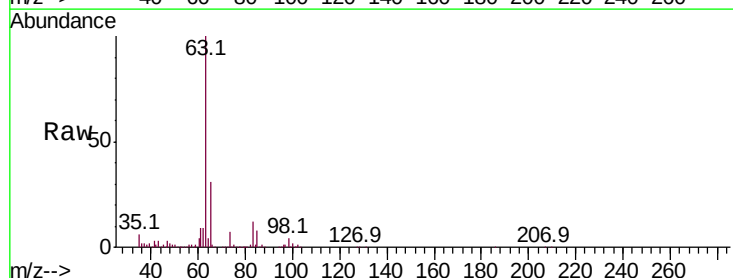
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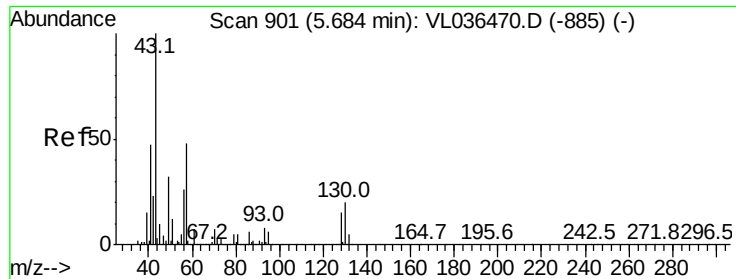


#24  
 1,1-Dichloroethane  
 Concen: 9.935 ppbv  
 RT: 5.02 min Scan# 693  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

| Tgt Ion | 63    | Resp  | 1540784 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 63      | 100   |       |         |
| 98      | 4.1   | 2.1   | 6.2     |
| 100     | 2.3   | 0.9   | 2.8     |







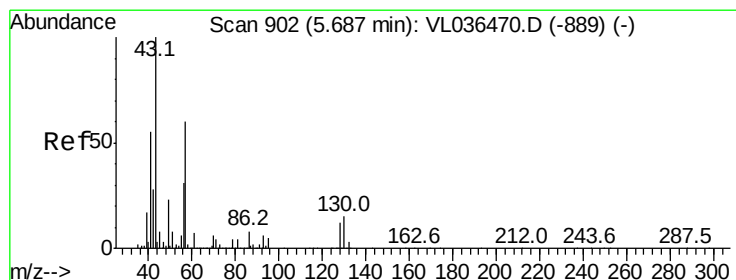
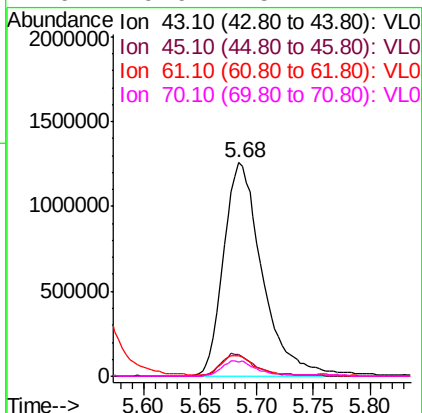
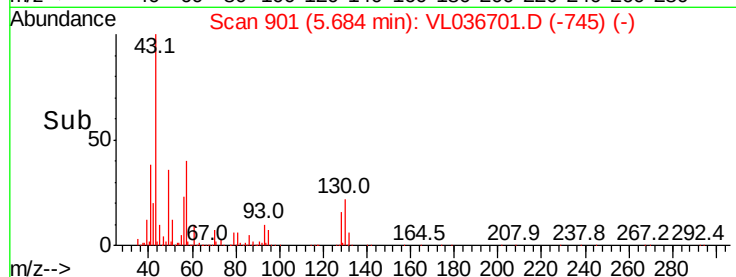
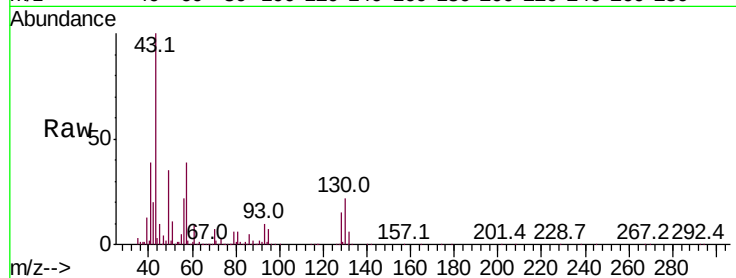
#25  
Ethyl Acetate  
Concen: 10.103 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 9.8   | 7.9   | 11.9  |
| 61      | 9.2   | 7.4   | 11.2  |
| 70      | 6.6   | 5.1   | 7.7   |

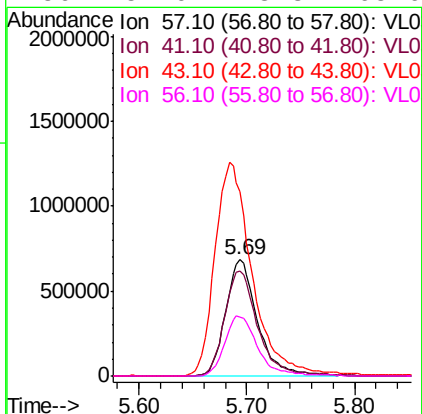
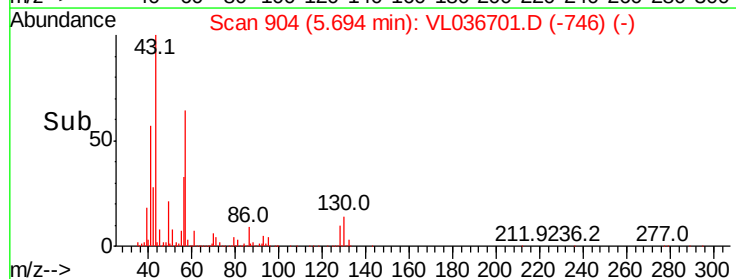
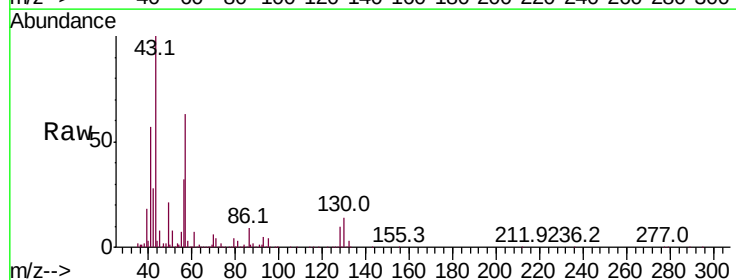
Manual Integrations  
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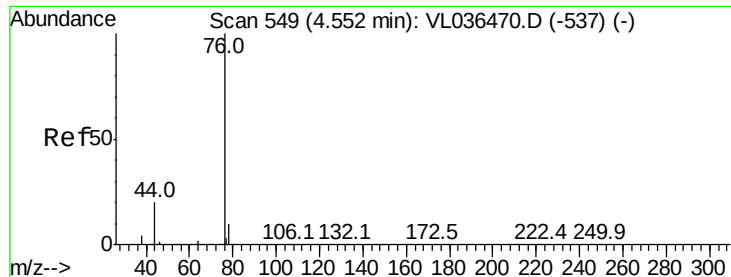
MMDadoda  
4/12/2021 11:10:50 AM



#26  
Hexane  
Concen: 10.280 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 95.0  | 77.2  | 115.8 |
| 43      | 216.3 | 173.8 | 260.6 |
| 56      | 54.0  | 43.8  | 65.6  |





#27

Carbon Disulfide

Concen: 10.092 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1364312

Ion Ratio Lower Upper

76 100

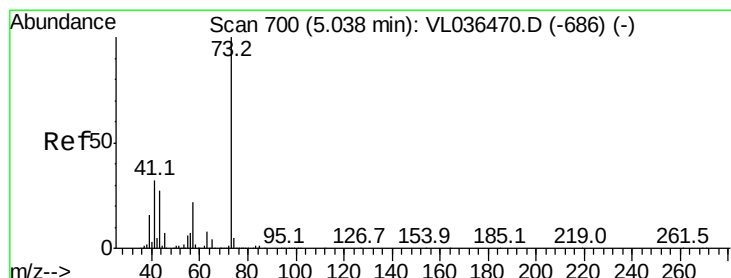
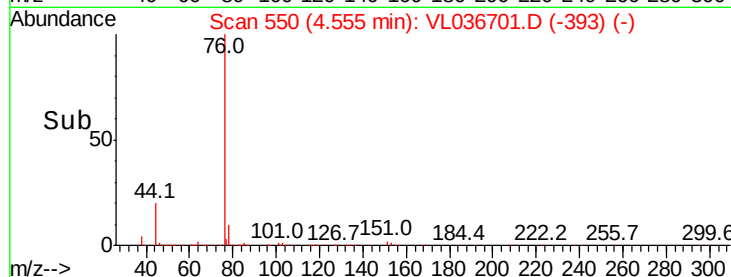
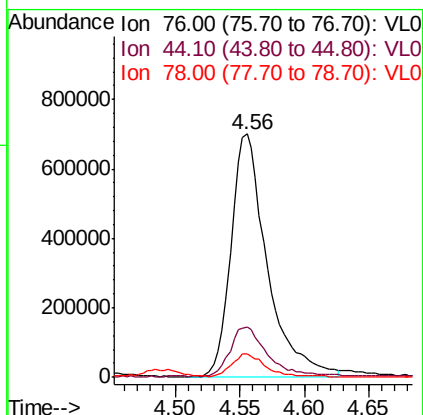
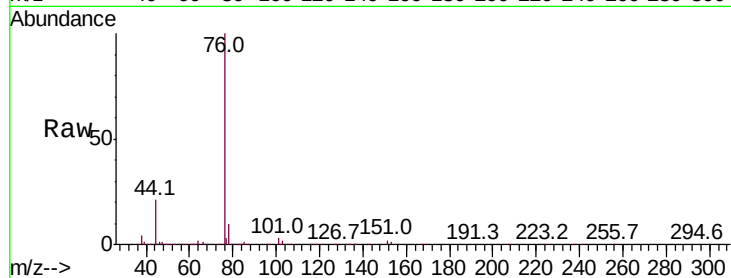
44 22.6 17.5 26.3

78 9.5 8.6 13.0

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#28

Methyl tert-Butyl Ether

Concen: 10.115 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL036701.D

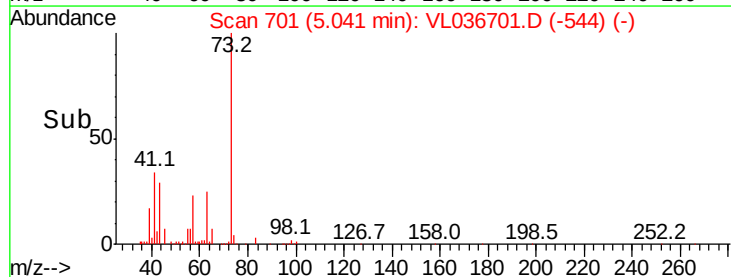
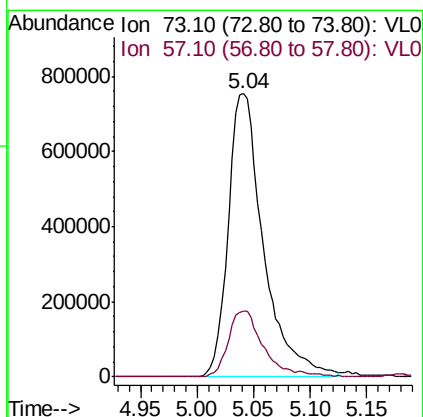
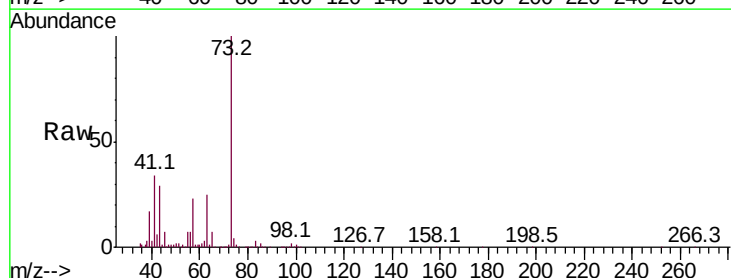
Acq: 6 Apr 2021 15:47

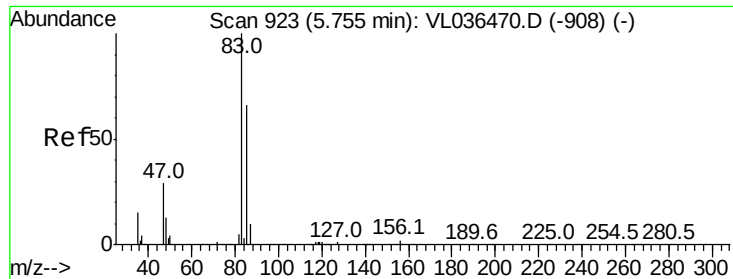
Tgt Ion: 73 Resp: 1636936

Ion Ratio Lower Upper

73 100

57 23.5 18.5 27.7





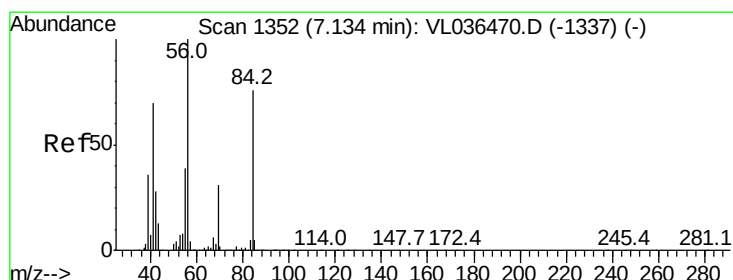
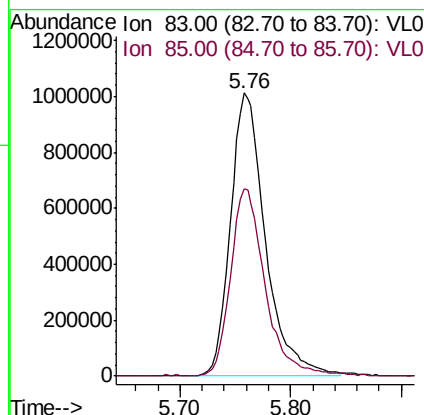
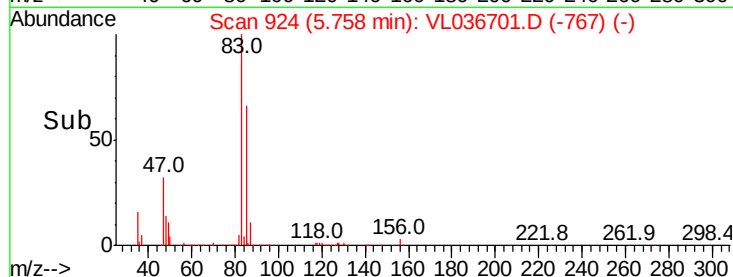
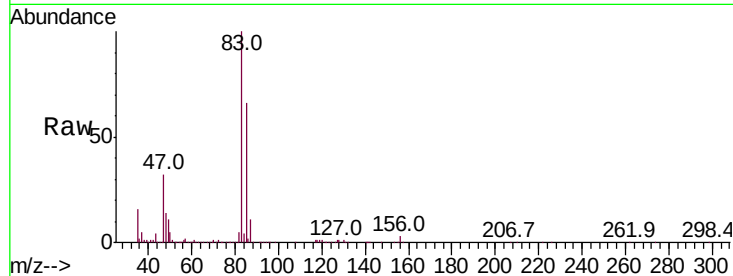
#29  
Chloroform  
Concen: 10.113 ppbv  
RT: 5.76 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 83 Resp: 2219383  
Ion Ratio Lower Upper  
83 100  
85 65.9 52.6 78.8

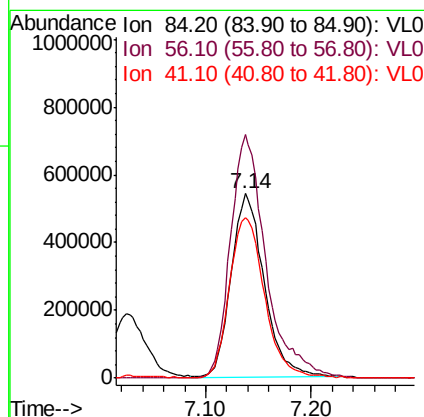
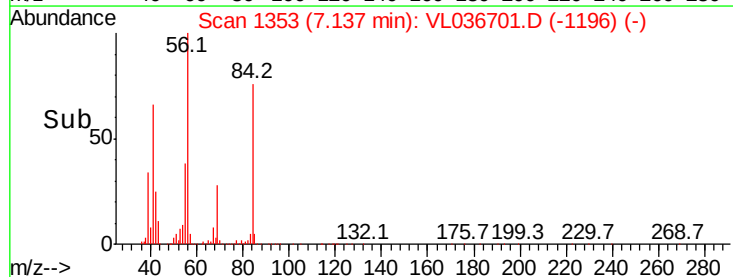
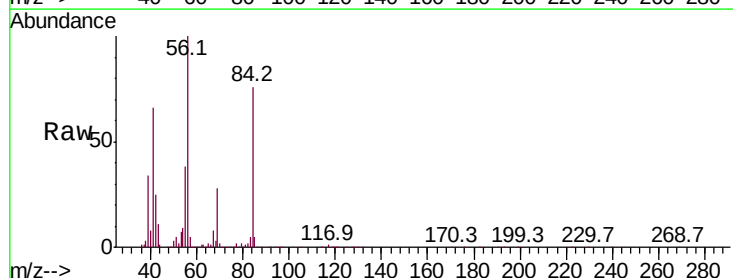
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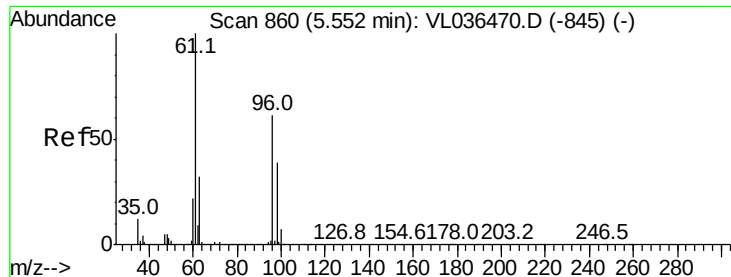
MMDadoda  
4/12/2021 11:10:50 AM



#30  
Cyclohexane  
Concen: 10.670 ppbv  
RT: 7.14 min Scan# 1353  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Tgt Ion: 84 Resp: 1187538  
Ion Ratio Lower Upper  
84 100  
56 142.2 114.6 171.8  
41 92.0 75.3 112.9





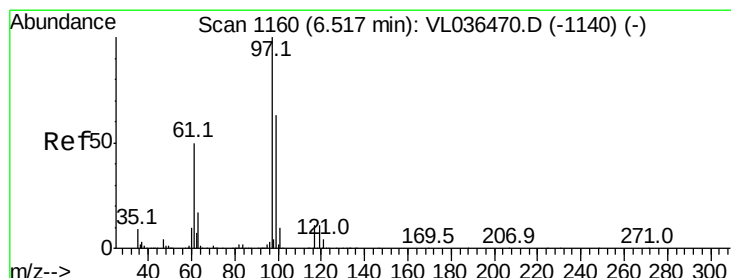
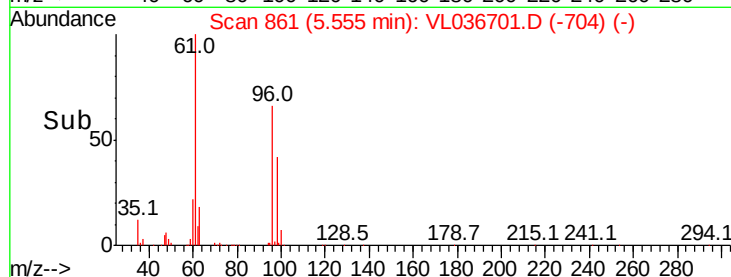
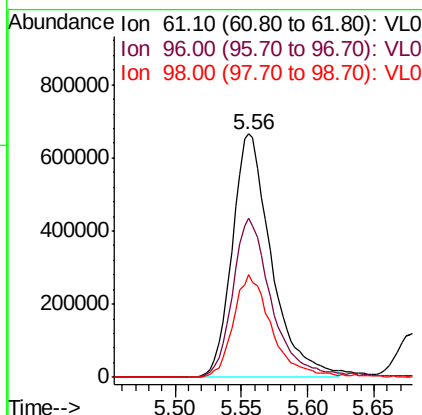
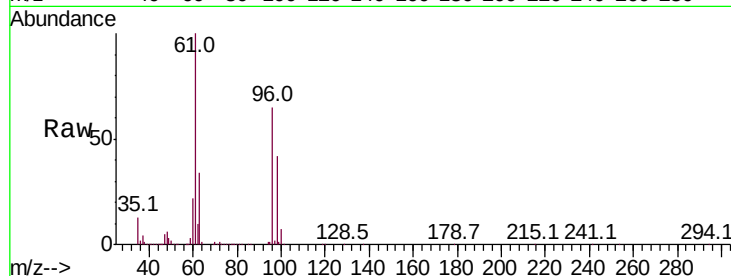
#31  
 cis-1,2-Dichloroethene  
 Concen: 10.274 ppbv  
 RT: 5.56 min Scan# 861  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 61 Resp: 1363692  
 Ion Ratio Lower Upper  
 61 100  
 96 65.2 48.7 73.1  
 98 42.0 31.4 47.0

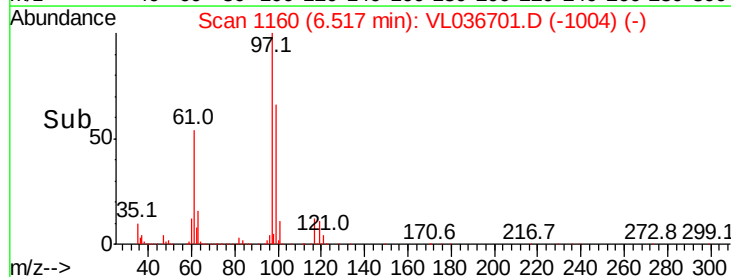
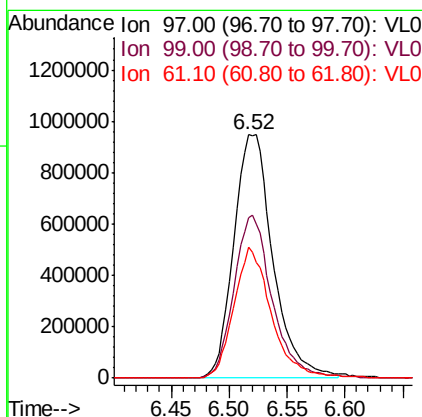
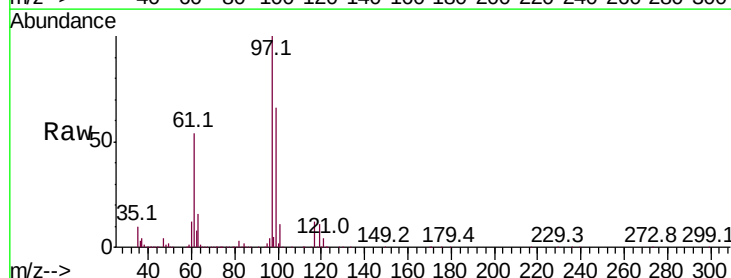
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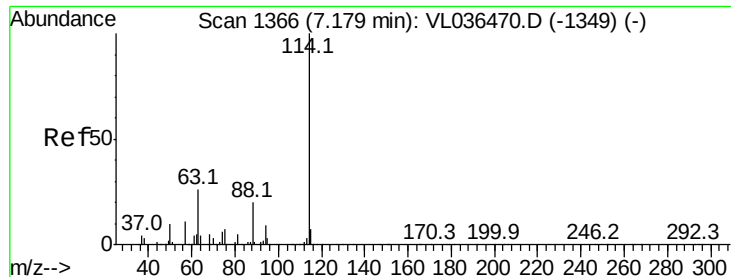
MMDadoda  
 4/12/2021 11:10:50 AM



#32  
 1,1,1-Trichloroethane  
 Concen: 10.060 ppbv  
 RT: 6.52 min Scan# 1160  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Tgt Ion: 97 Resp: 2225015  
 Ion Ratio Lower Upper  
 97 100  
 99 65.5 51.4 77.0  
 61 51.4 40.6 60.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

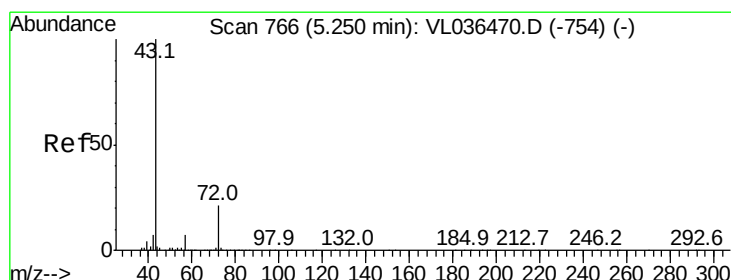
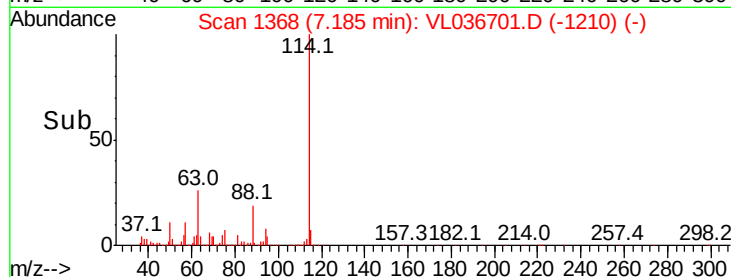
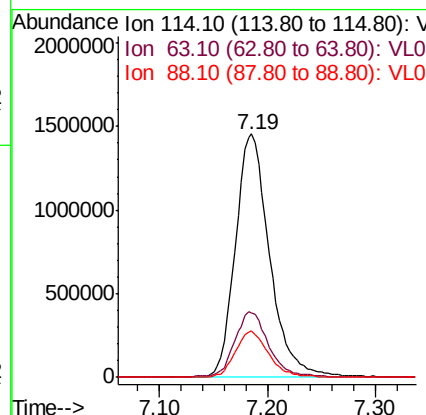
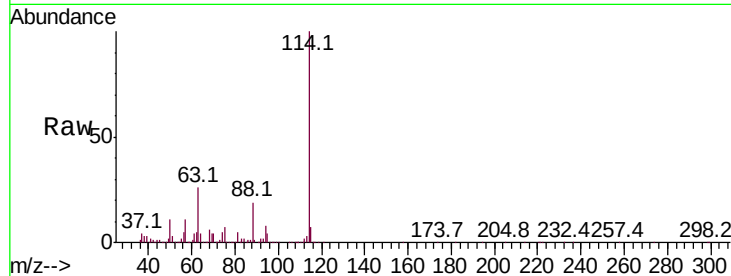
Instrument :  
MSVOA\_L

ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.4  | 22.4  | 33.6  |
| 88      | 18.6  | 15.4  | 23.0  |

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#34

2-Butanone

Concen: 9.470 ppbv

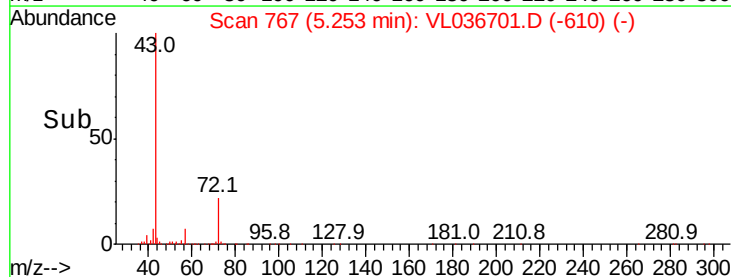
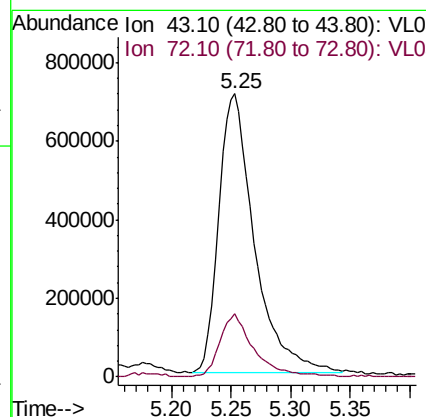
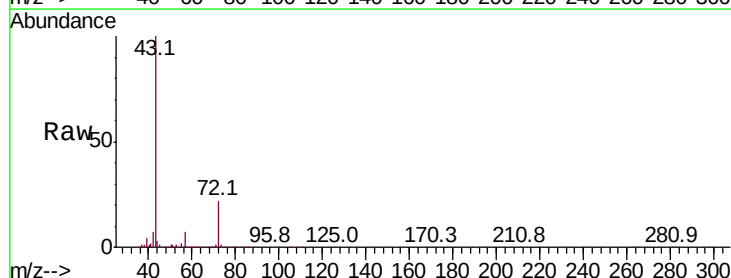
RT: 5.25 min Scan# 767

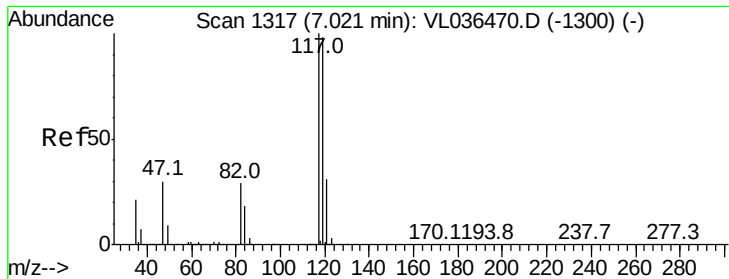
Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 22.1  | 17.0  | 25.6  |





#35

Carbon Tetrachloride

Concen: 9.580 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

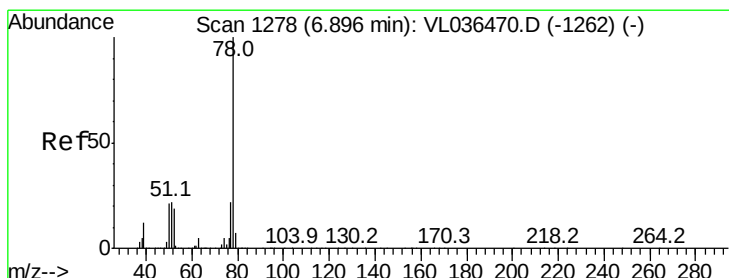
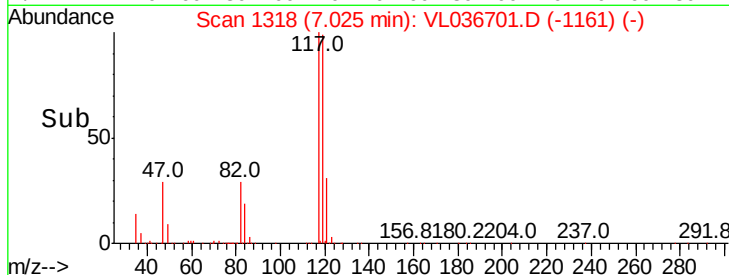
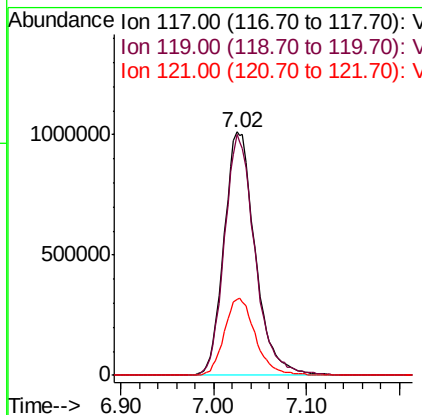
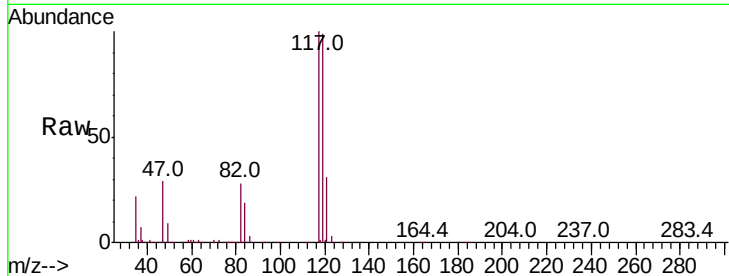
ClientSampleId :

VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 98.8  | 78.2  | 117.2 |
| 121     | 31.2  | 24.5  | 36.7  |

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#36

Benzene

Concen: 9.850 ppbv

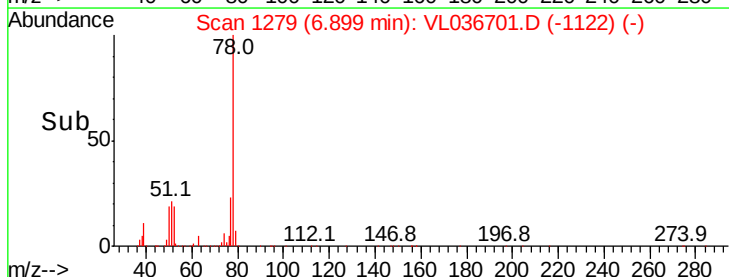
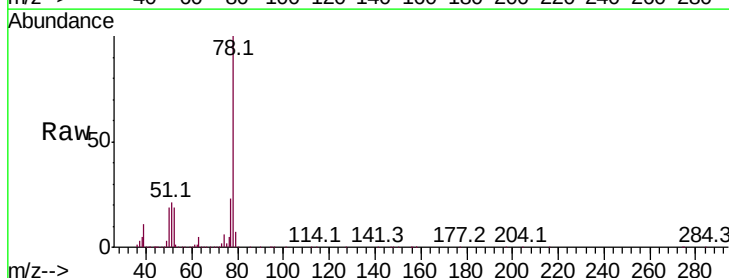
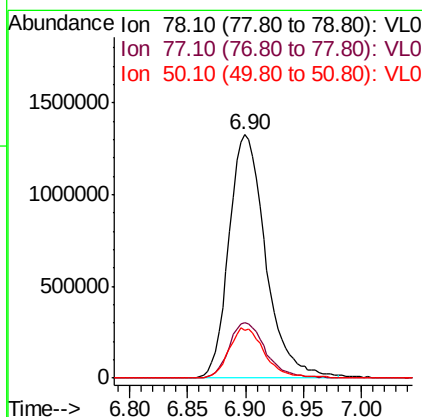
RT: 6.90 min Scan# 1279

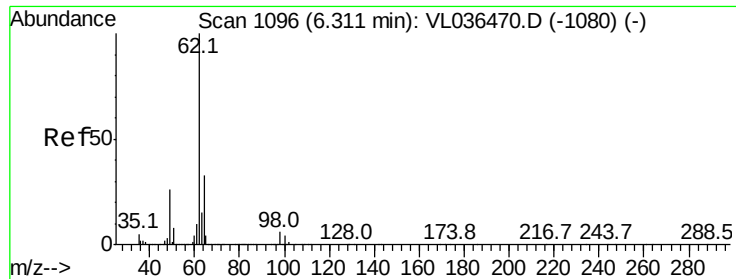
Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.8  | 18.0  | 27.0  |
| 50      | 19.4  | 16.5  | 24.7  |





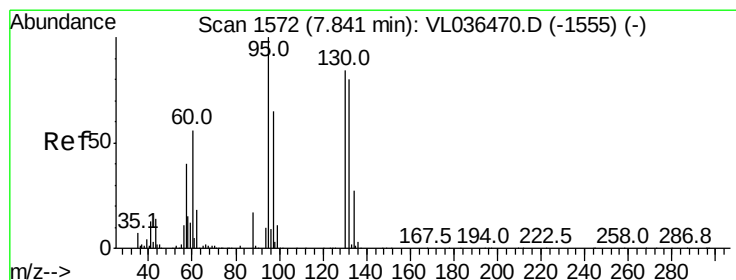
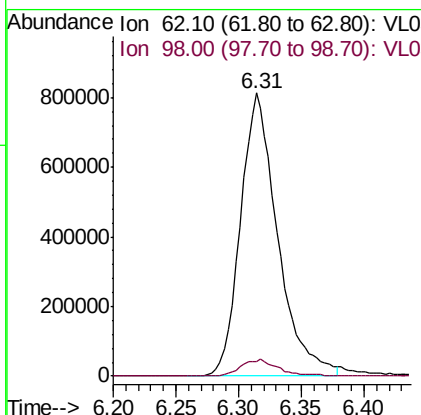
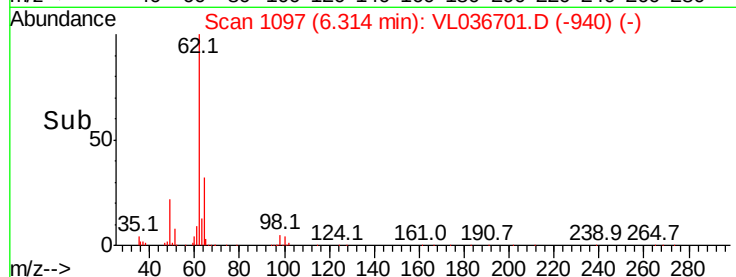
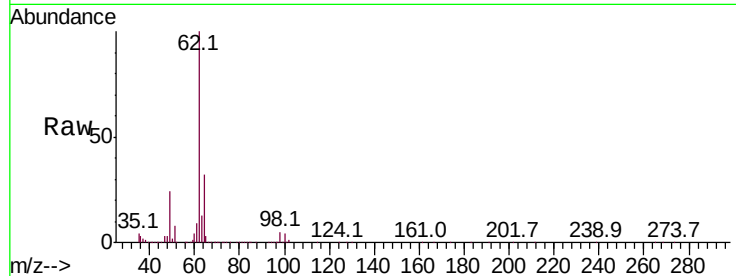
#37  
 1,2-Dichloroethane  
 Concen: 9.621 ppbv  
 RT: 6.31 min Scan# 1097  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 6.1   | 4.9   | 7.3   |

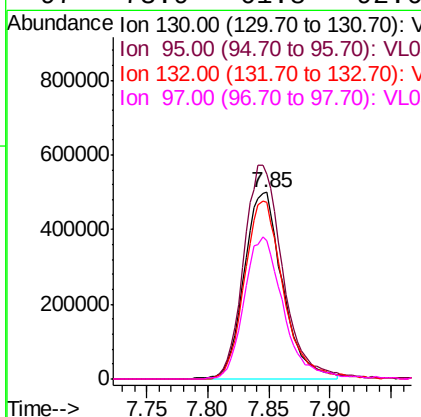
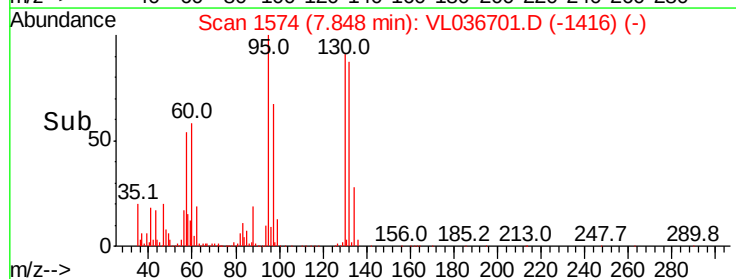
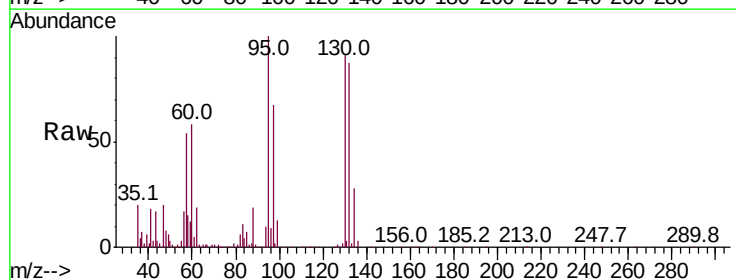
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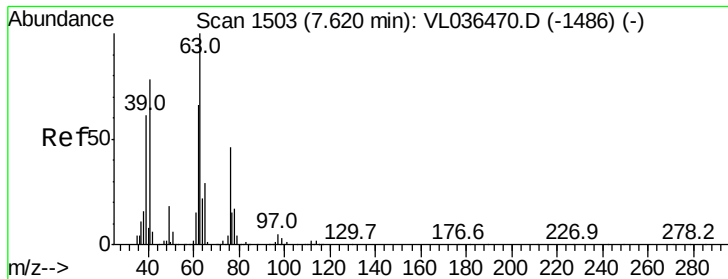
MMDadoda  
 4/12/2021 11:10:50 AM



#38  
 Trichloroethene  
 Concen: 9.386 ppbv  
 RT: 7.85 min Scan# 1574  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 109.6 | 95.7  | 143.5 |
| 132     | 94.8  | 76.2  | 114.4 |
| 97      | 73.9  | 61.8  | 92.6  |





#39

1,2-Dichloropropane

Concen: 9.365 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1124946

Ion Ratio Lower Upper

63 100

41 81.3 62.4 93.6

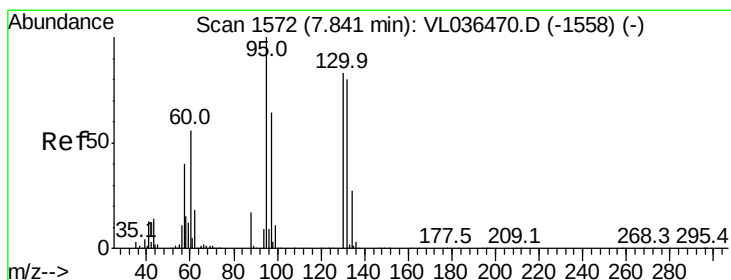
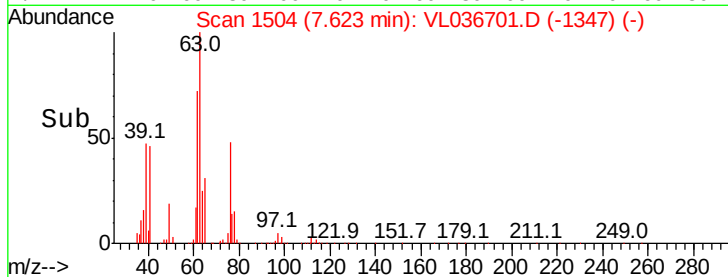
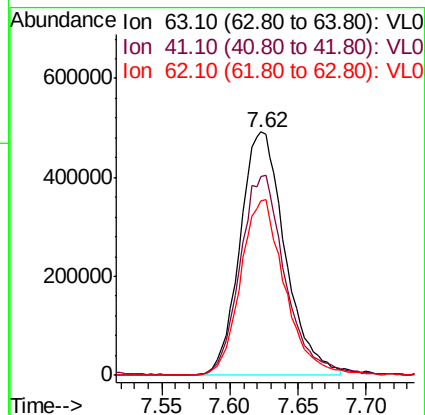
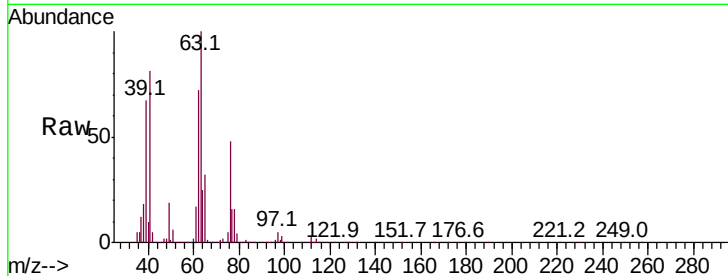
62 71.8 52.8 79.2

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#40

1,4-Dioxane

Concen: 8.562 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Tgt Ion: 88 Resp: 239362

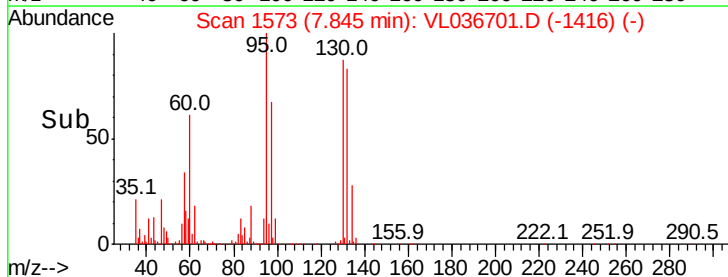
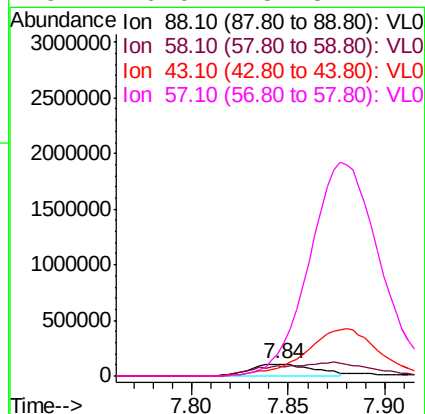
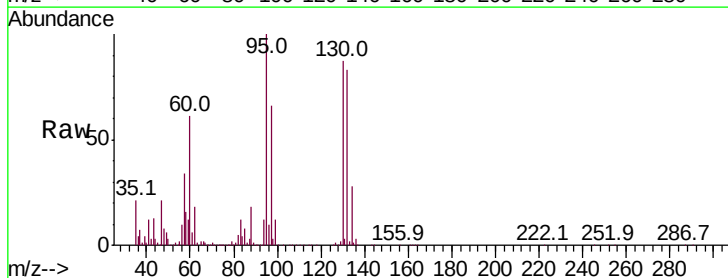
Ion Ratio Lower Upper

88 100

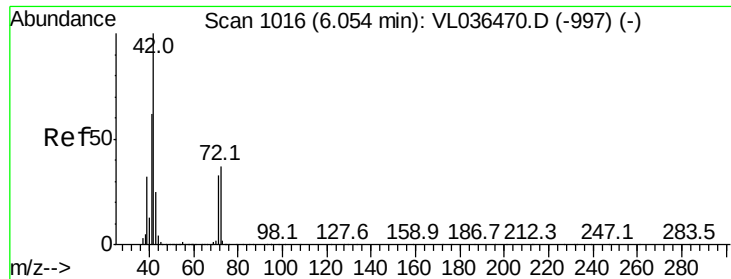
58 0.0 134.1 201.1#

43 0.0 346.6 520.0#

57 0.0 1481.8 2222.8#







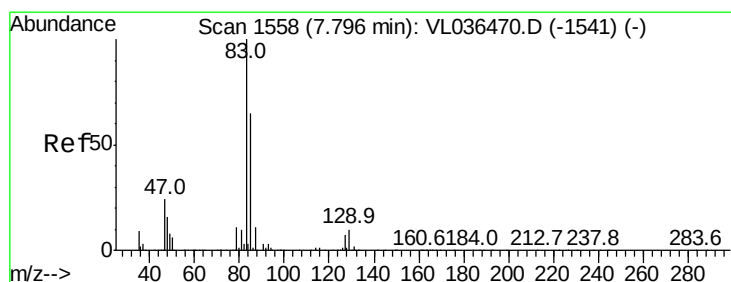
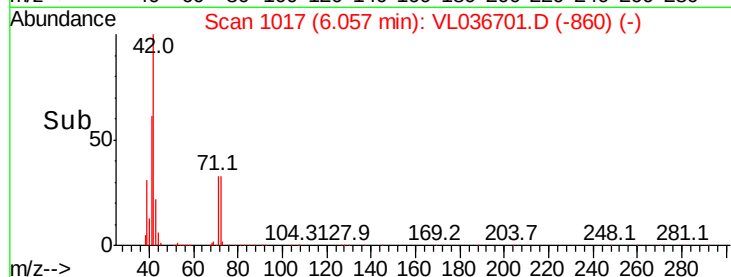
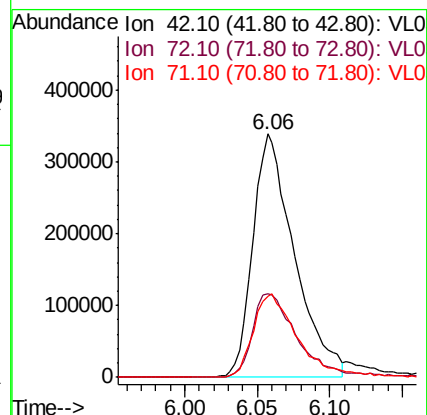
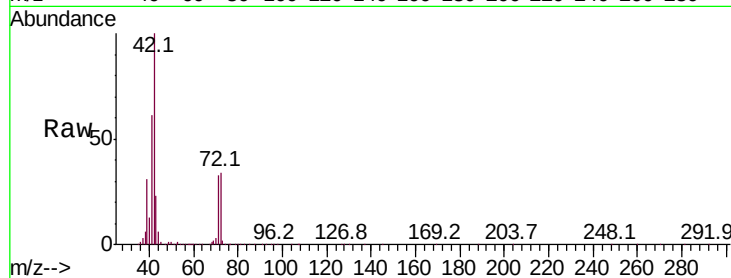
#41  
Tetrahydrofuran  
Concen: 9.345 ppbv  
RT: 6.06 min Scan# 1017  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 38.1  | 27.6  | 41.4  |
| 71      | 37.7  | 27.0  | 40.4  |

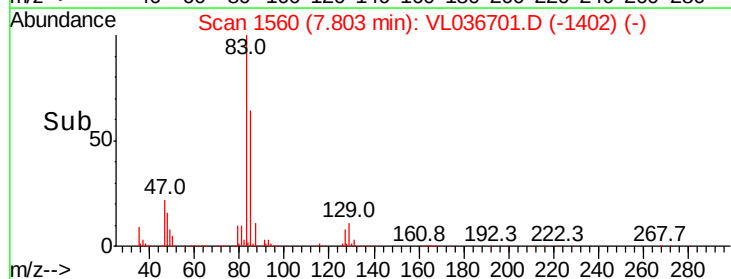
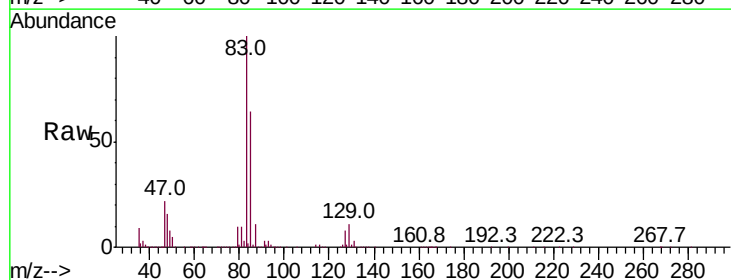
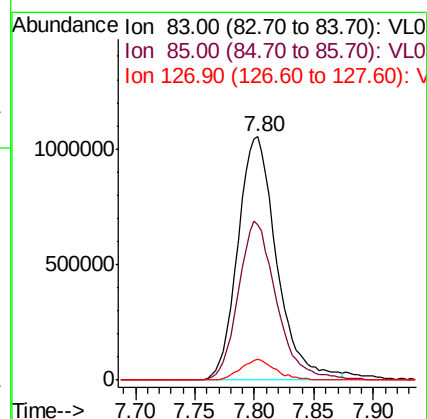
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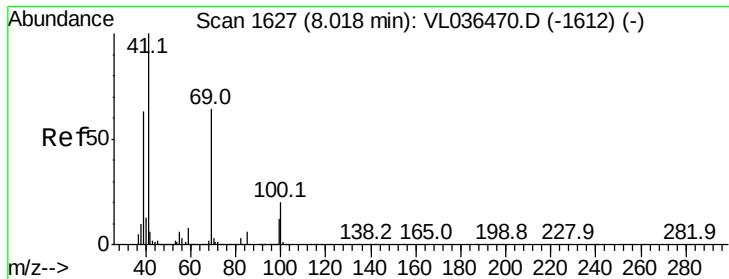
MMDadoda  
4/12/2021 11:10:50 AM



#42  
Bromodichloromethane  
Concen: 10.056 ppbv  
RT: 7.80 min Scan# 1560  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.8  | 51.8  | 77.6  |
| 127     | 8.4   | 5.8   | 8.8   |





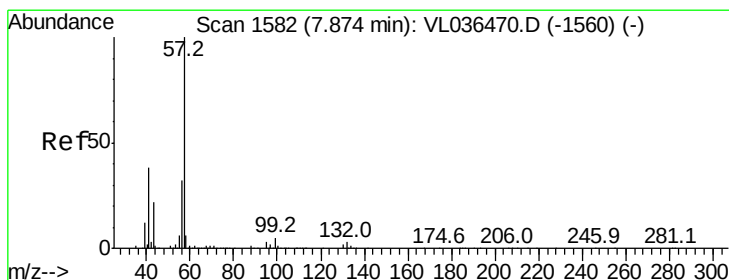
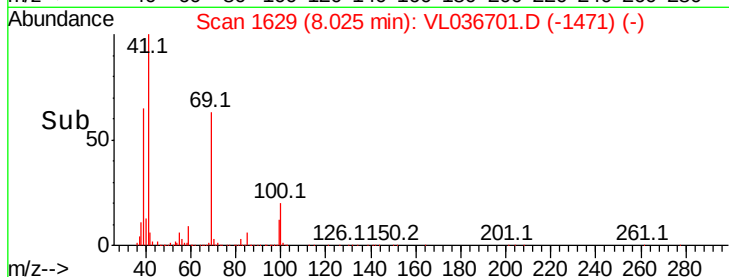
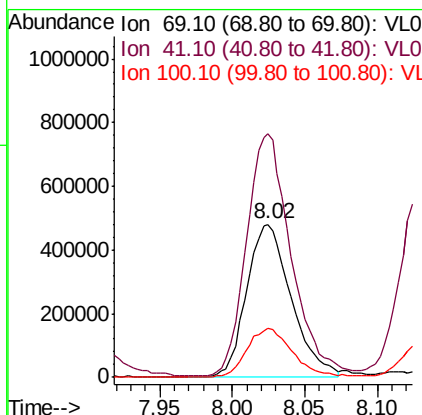
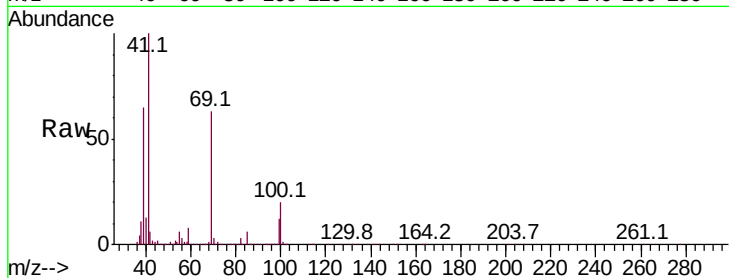
#43  
Methyl Methacrylate  
Concen: 10.338 ppbv  
RT: 8.02 min Scan# 1629  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 69 Resp: 1027932  
Ion Ratio Lower Upper  
69 100  
41 160.6 126.8 190.2  
100 32.9 24.9 37.3

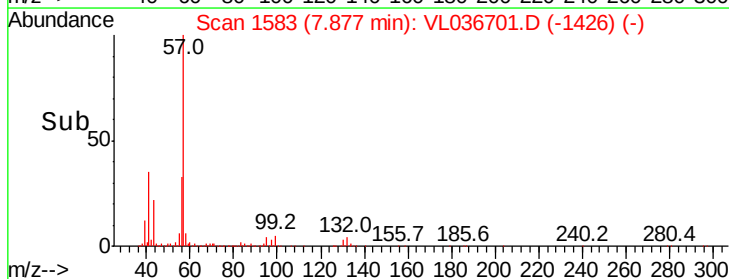
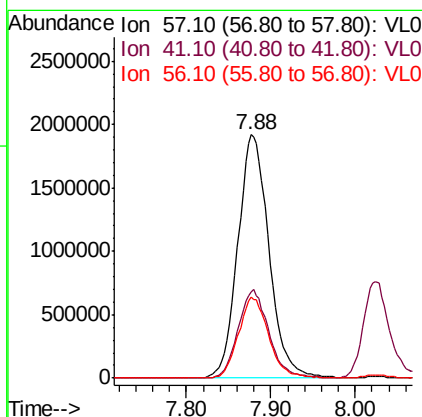
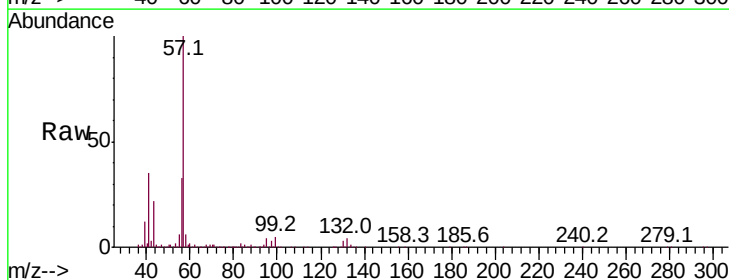
Manual Integrations  
APPROVED

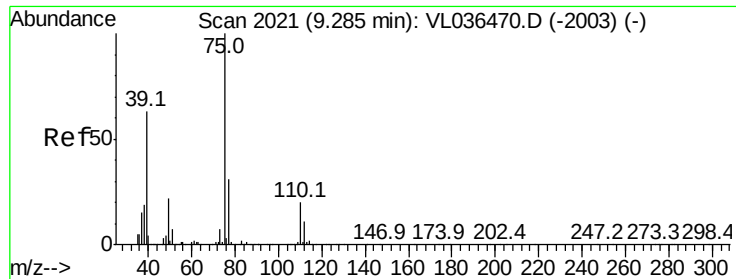
MMDadoda  
4/12/2021 11:10:50 AM



#44  
2,2,4-Trimethylpentane  
Concen: 9.486 ppbv  
RT: 7.88 min Scan# 1583  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Tgt Ion: 57 Resp: 4943954  
Ion Ratio Lower Upper  
57 100  
41 35.6 28.8 43.2  
56 32.3 26.1 39.1





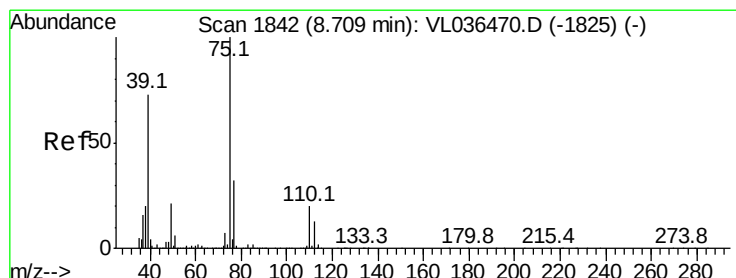
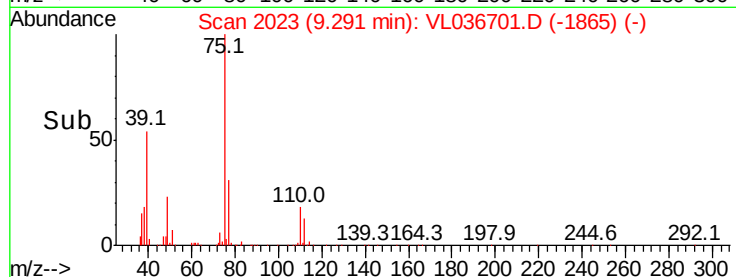
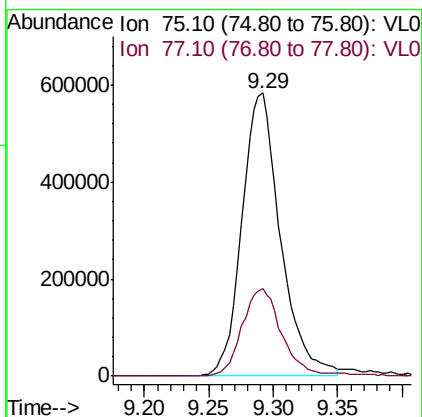
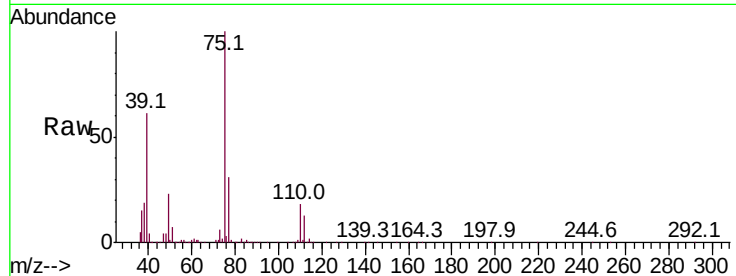
#45  
t-1,3-Dichloropropene  
Concen: 10.661 ppbv  
RT: 9.29 min Scan# 2023  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 75 Resp: 1210490  
Ion Ratio Lower Upper  
75 100  
77 31.1 25.1 37.7

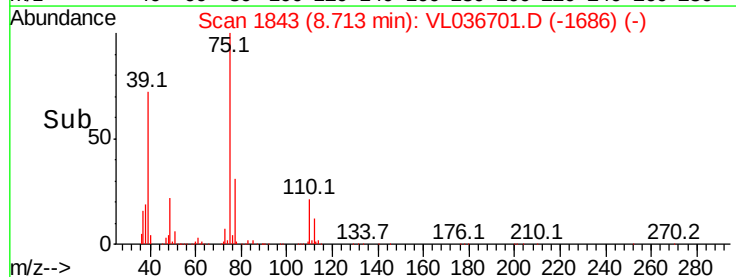
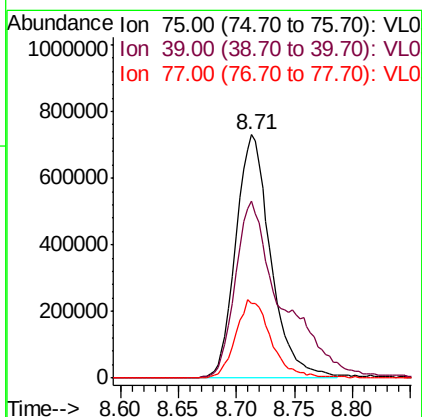
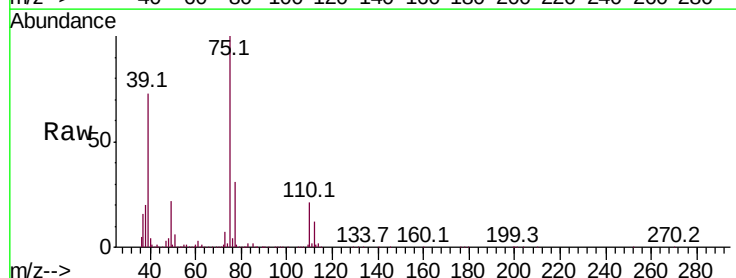
Manual Integrations  
APPROVED

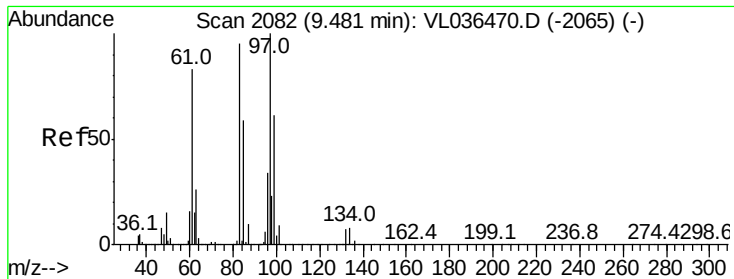
MMDadoda  
4/12/2021 11:10:50 AM



#46  
cis-1,3-Dichloropropene  
Concen: 10.527 ppbv  
RT: 8.71 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Tgt Ion: 75 Resp: 1527928  
Ion Ratio Lower Upper  
75 100  
39 72.7 58.2 87.2  
77 30.9 25.2 37.8





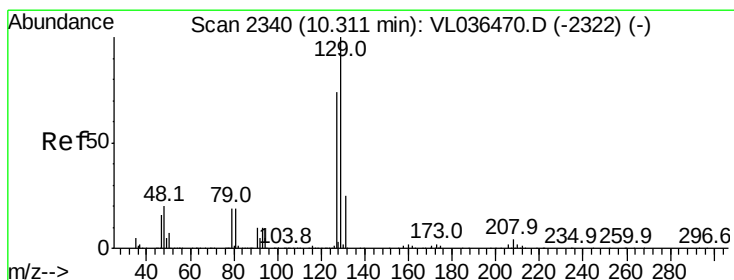
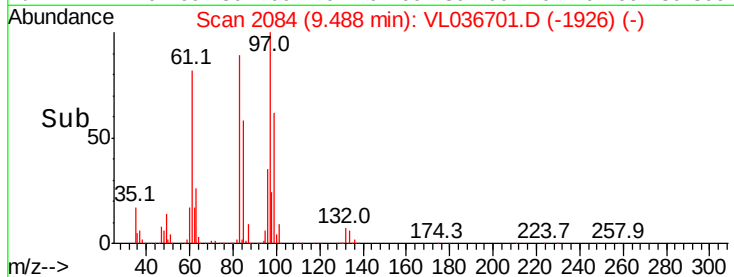
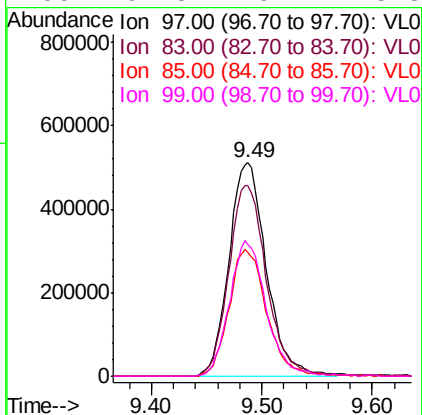
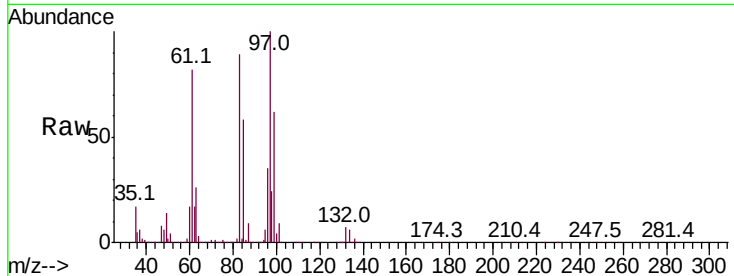
#47  
 1,1,2-Trichloroethane  
 Concen: 9.855 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 89.4 | 75.8  | 113.8 |       |
| 85      | 58.1 | 47.1  | 70.7  |       |
| 99      | 61.8 | 49.2  | 73.8  |       |

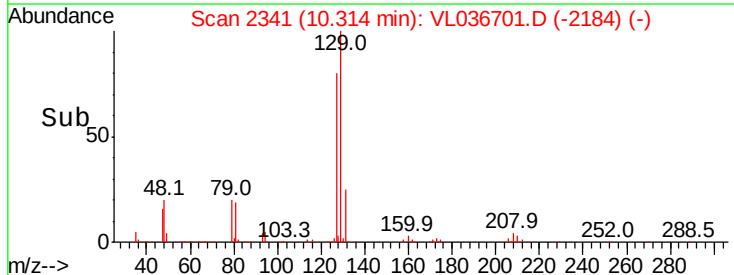
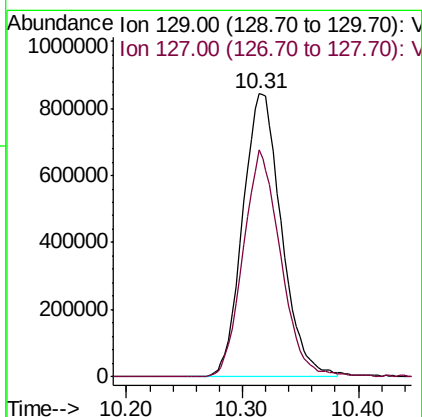
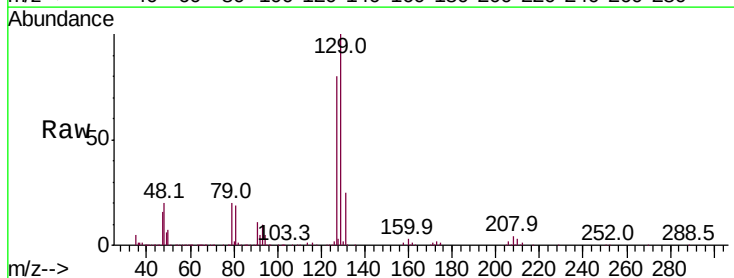
Manual Integrations  
 APPROVED

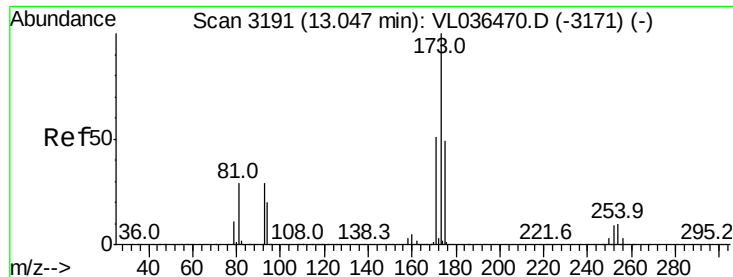
MMDadoda  
 4/12/2021 11:10:50 AM



#48  
 Dibromochloromethane  
 Concen: 10.574 ppbv  
 RT: 10.31 min Scan# 2341  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 77.6 | 39.6  | 118.8 |       |





#49

Bromoform

Concen: 10.750 ppbv

RT: 13.05 min Scan# 3193

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1606471

Ion Ratio Lower Upper

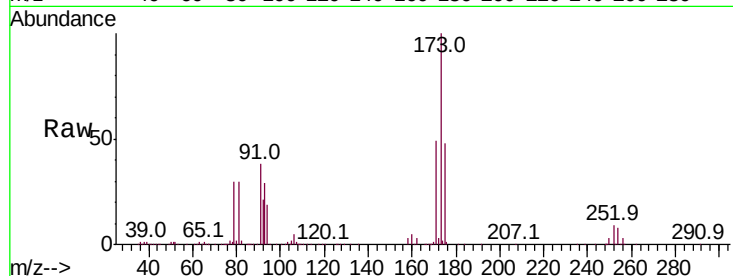
173 100

175 50.5 39.6 59.4

171 52.6 41.4 62.0

Manual Integrations  
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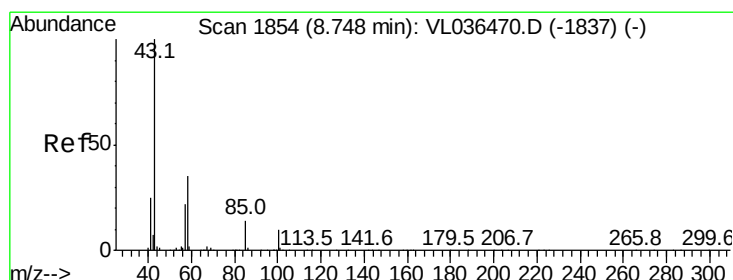
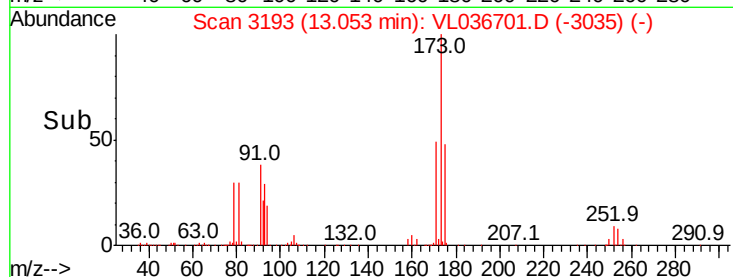
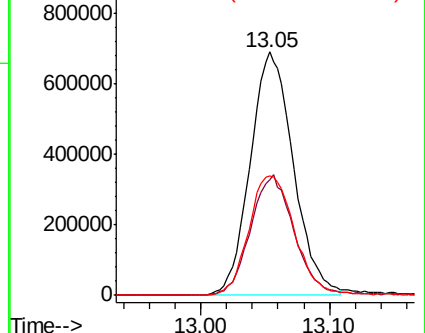
MMDadoda  
4/12/2021 11:10:50 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.175 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VL036701.D

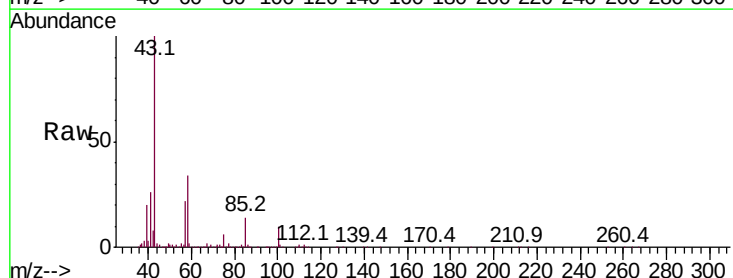
Acq: 6 Apr 2021 15:47

Tgt Ion: 43 Resp: 2307487

Ion Ratio Lower Upper

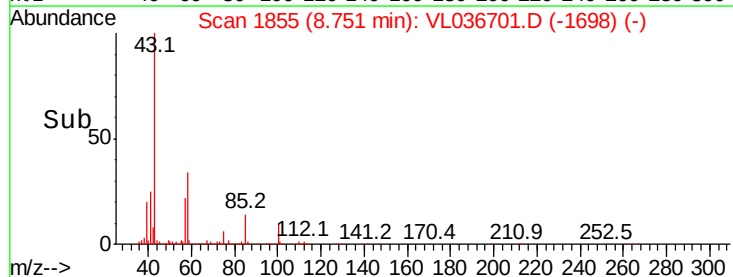
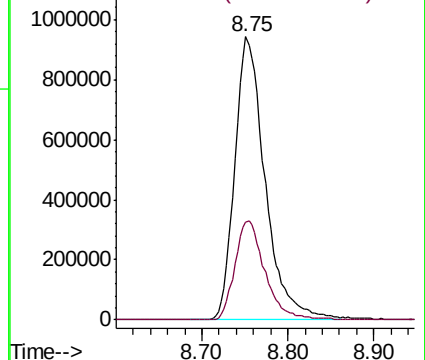
43 100

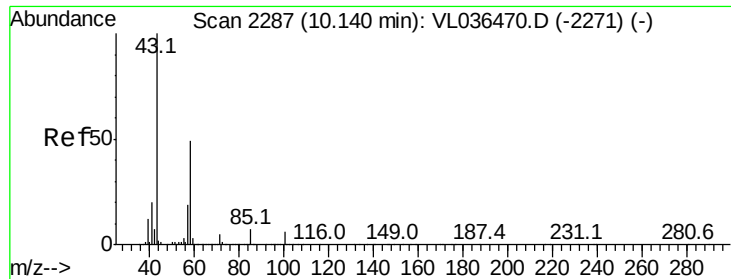
58 35.0 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





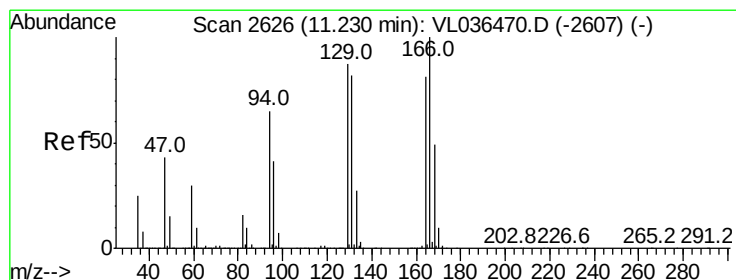
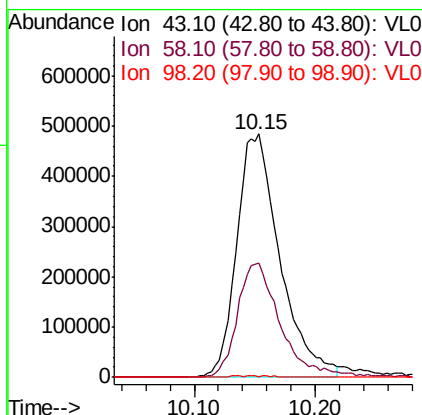
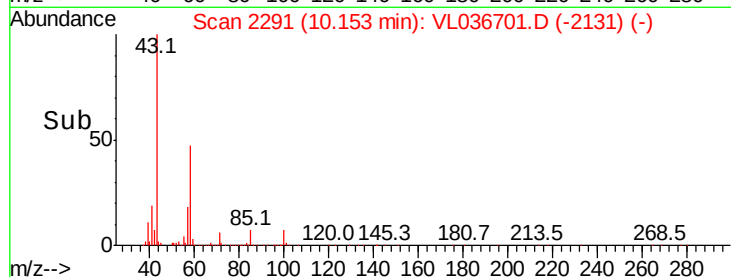
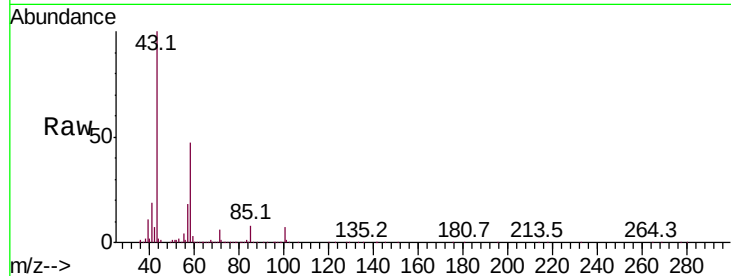
#51  
2-Hexanone  
Concen: 10.550 ppbv m  
RT: 10.15 min Scan# 2291  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 43 Resp: 1207383  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.7 56.5#  
98 0.9 0.2 0.2#

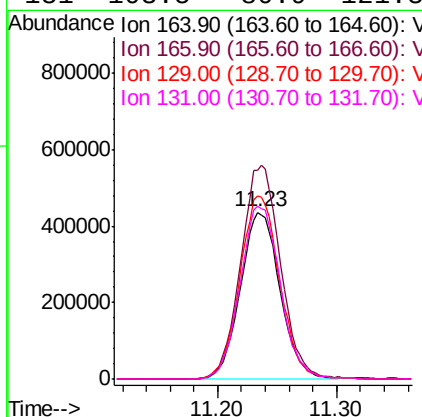
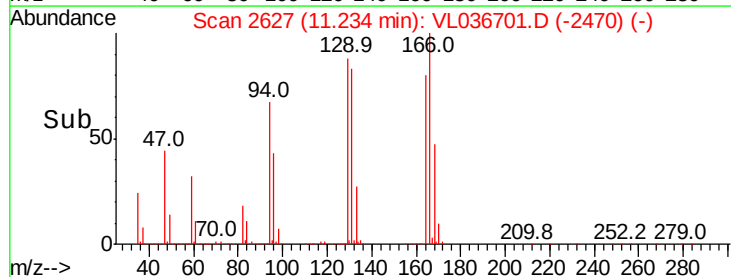
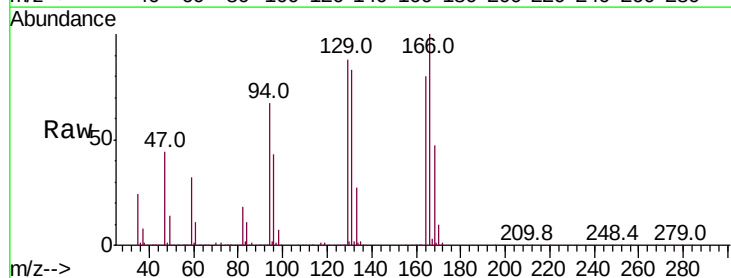
Manual Integrations  
APPROVED

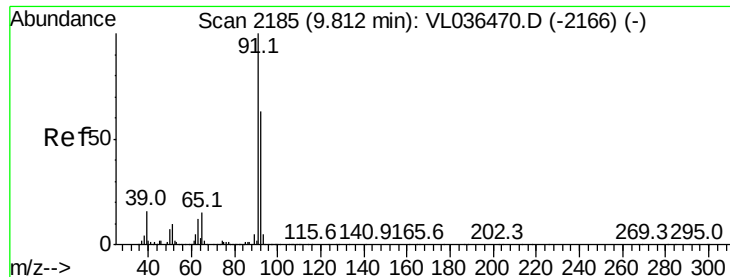
MMDadoda  
4/12/2021 11:10:50 AM



#52  
Tetrachloroethene  
Concen: 9.180 ppbv  
RT: 11.23 min Scan# 2627  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Tgt Ion: 164 Resp: 1001046  
Ion Ratio Lower Upper  
164 100  
166 124.7 98.3 147.5  
129 109.6 85.8 128.8  
131 103.5 80.9 121.3





#53

Toluene

Concen: 10.413 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3283745

Ion Ratio Lower Upper

91 100

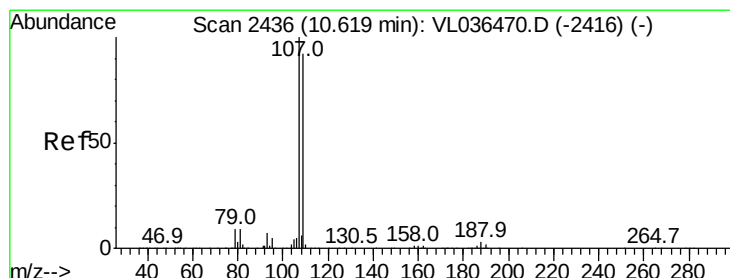
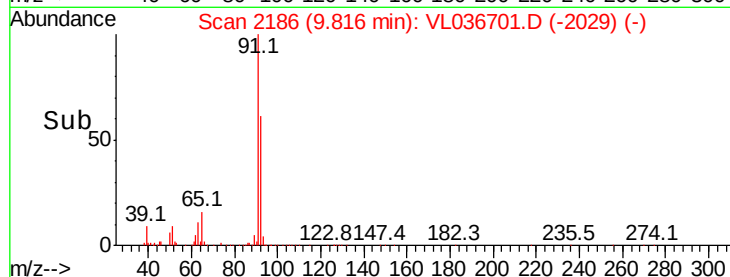
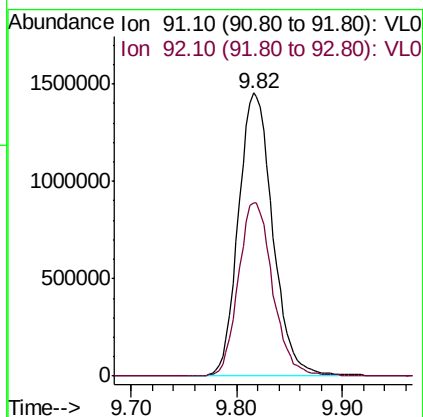
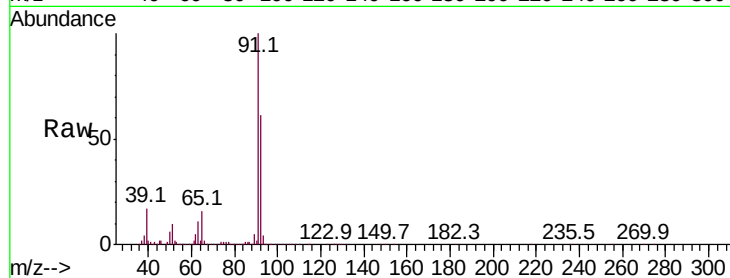
92 61.5 48.8 73.2

Manual Integrations

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4/12/2021 11:10:50 AM



#54

1,2-Dibromoethane

Concen: 10.050 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL036701.D

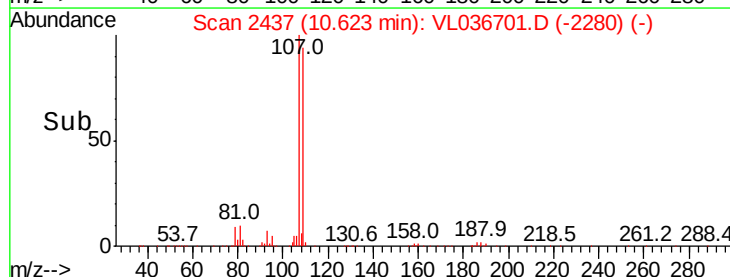
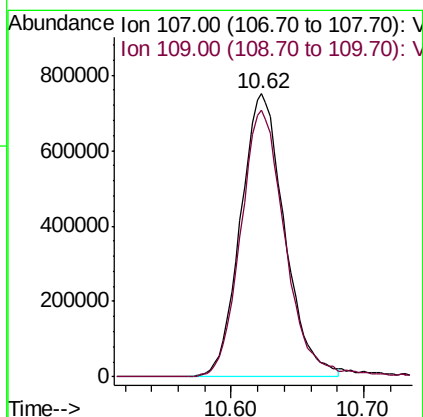
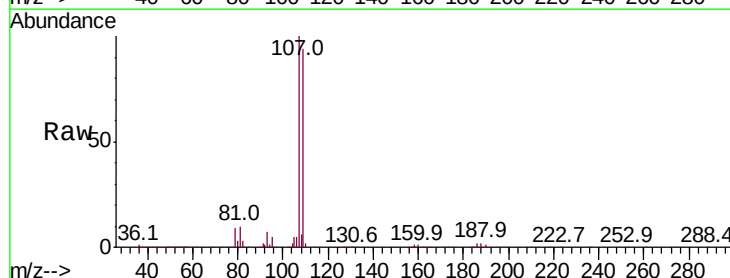
Acq: 6 Apr 2021 15:47

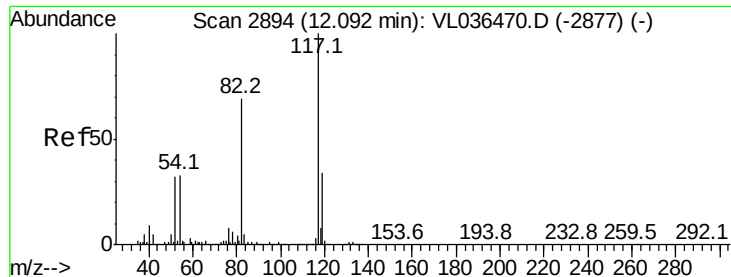
Tgt Ion: 107 Resp: 1726773

Ion Ratio Lower Upper

107 100

109 94.2 73.9 110.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 3025131

Ion Ratio Lower Upper

117 100

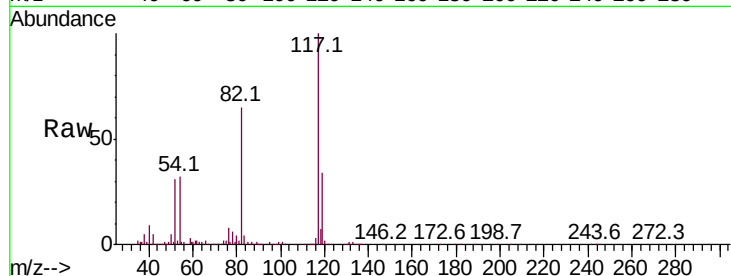
82 67.4 57.4 86.0

119 34.1 47.4 71.0#

Manual Integrations  
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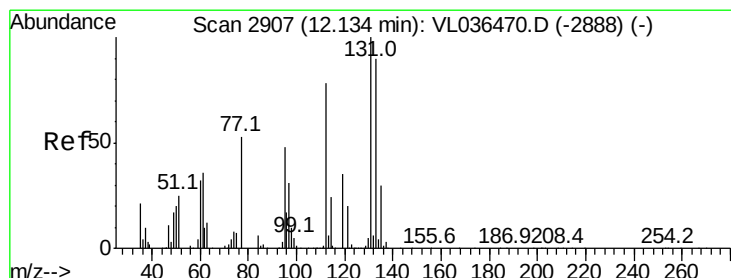
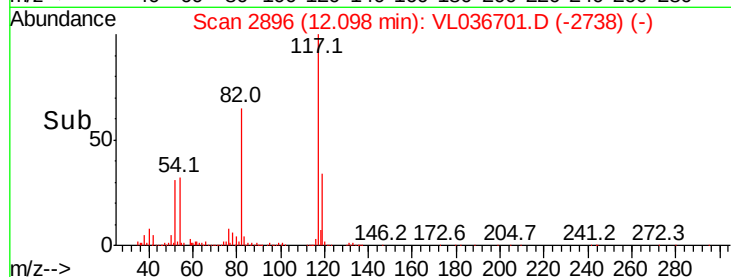
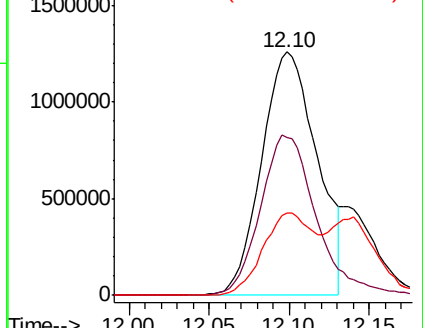
4/12/2021 11:10:50 AM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.713 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

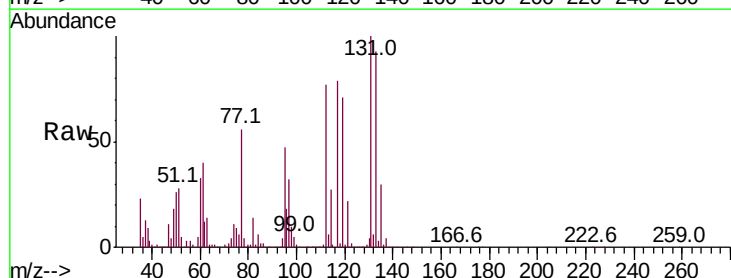
Tgt Ion:131 Resp: 1329032

Ion Ratio Lower Upper

131 100

133 96.2 75.8 113.6

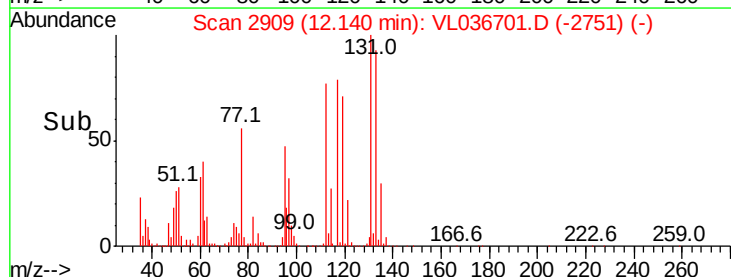
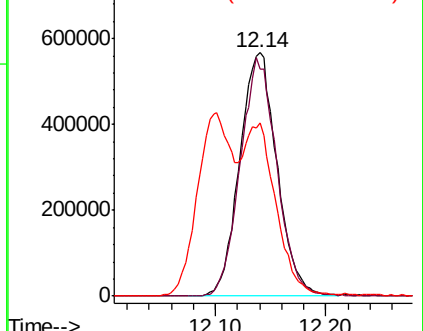
119 62.4 48.7 73.1



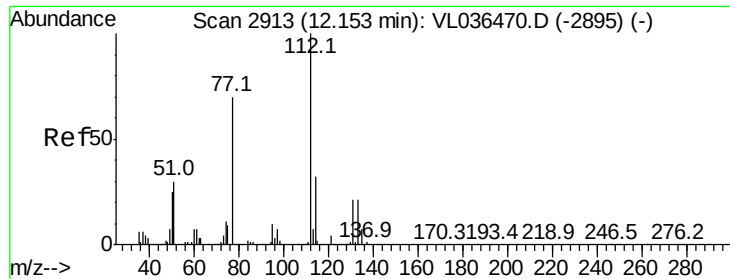
Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V







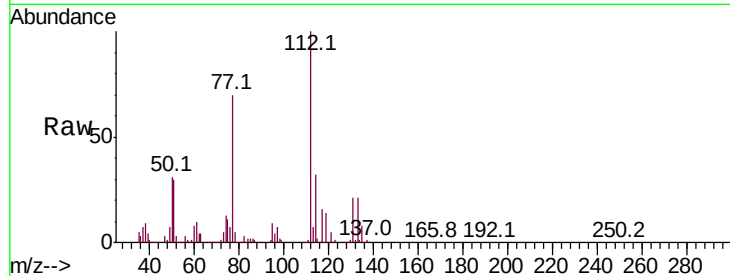
#57  
Chlorobenzene  
Concen: 9.528 ppbv  
RT: 12.16 min Scan# 2915  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

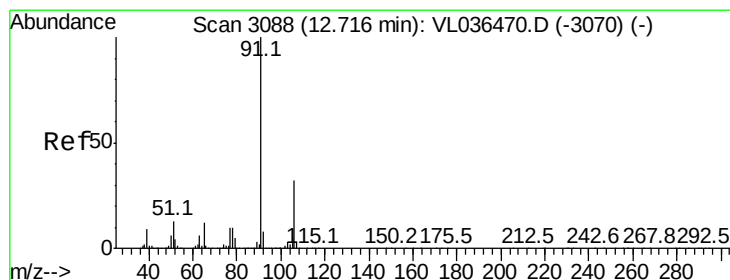
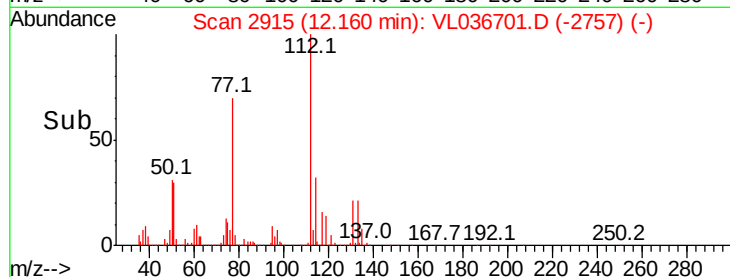
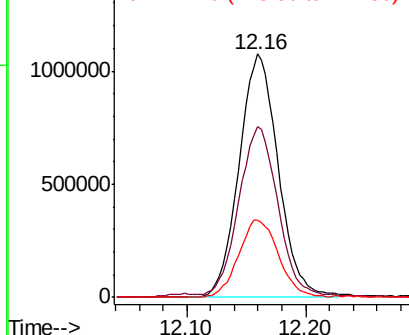
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 69.2  | 56.0  | 84.0  |
| 114     | 31.4  | 29.0  | 35.4  |

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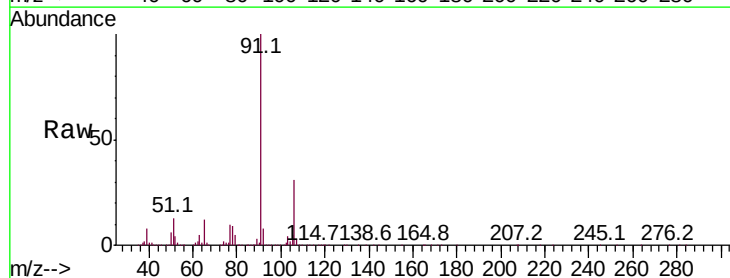


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

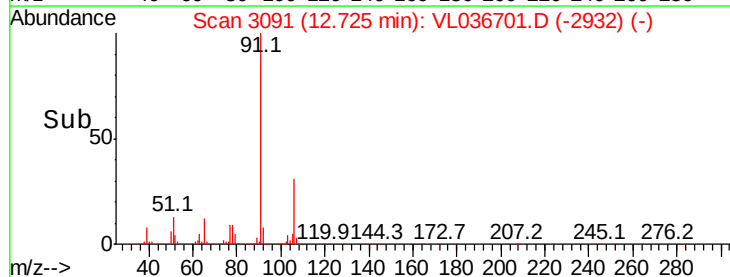
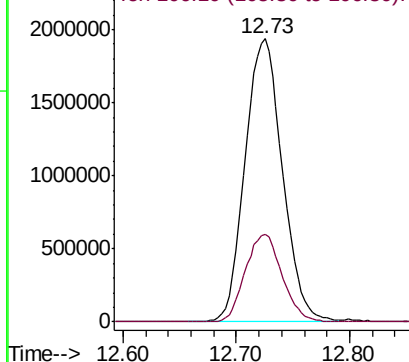


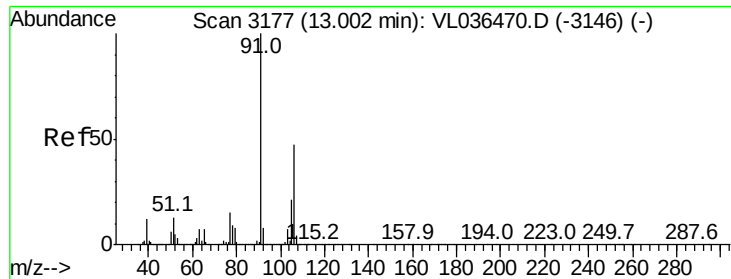
#58  
Ethyl Benzene  
Concen: 10.117 ppbv  
RT: 12.73 min Scan# 3091  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.8  | 25.3  | 37.9  |



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





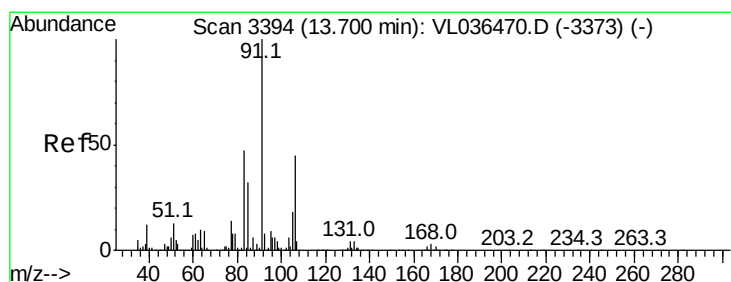
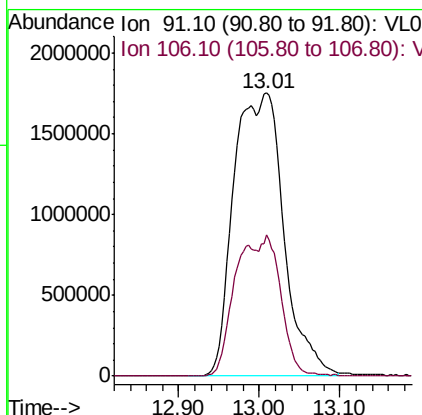
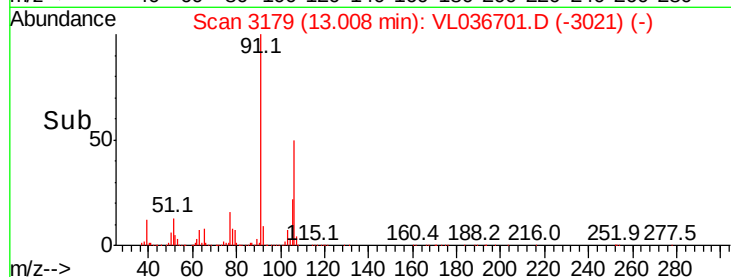
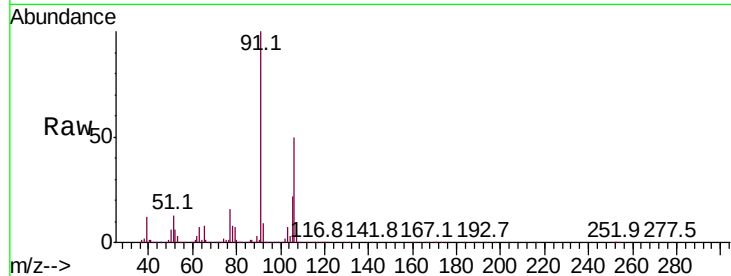
#59  
m/p-Xylene  
Concen: 19.518 ppbv m  
RT: 13.01 min Scan# 3179  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 91 Resp: 7492634  
Ion Ratio Lower Upper  
91 100  
106 44.8 35.3 52.9

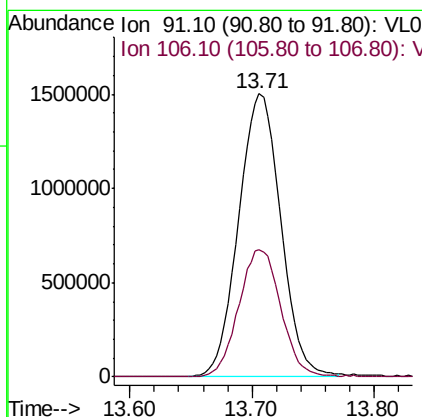
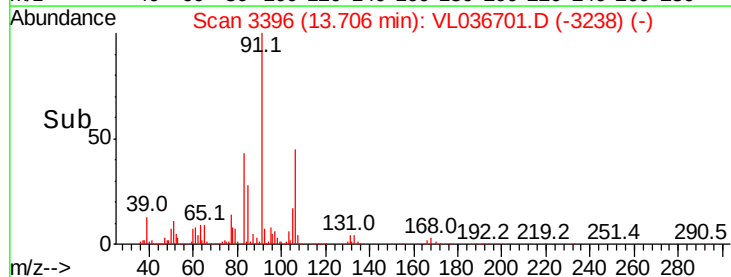
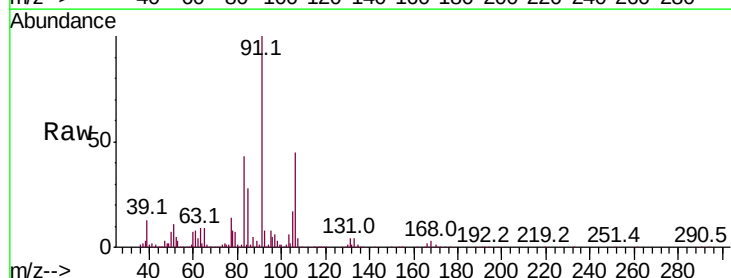
Manual Integrations  
APPROVED

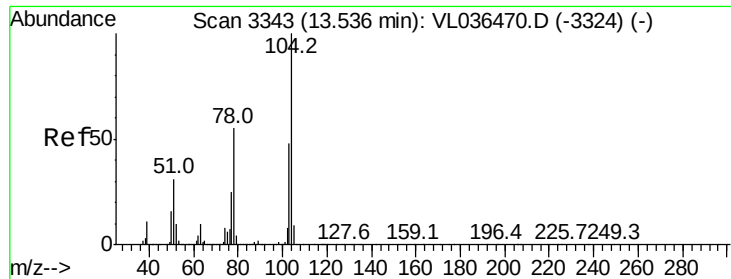
MMDadoda  
4/12/2021 11:10:50 AM



#60  
o-Xylene  
Concen: 9.640 ppbv  
RT: 13.71 min Scan# 3396  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Tgt Ion: 91 Resp: 3578132  
Ion Ratio Lower Upper  
91 100  
106 45.2 22.3 66.9





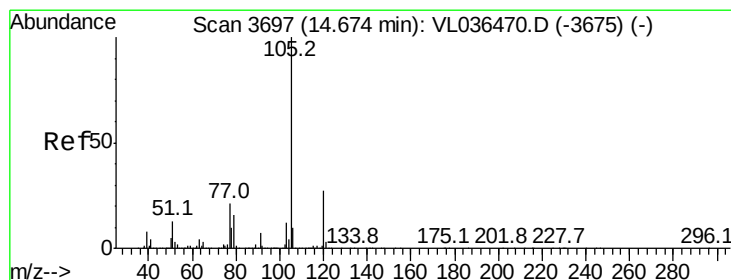
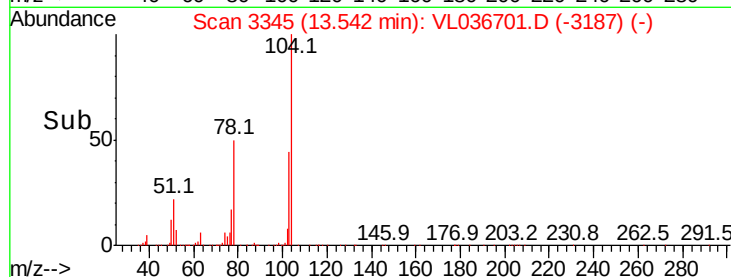
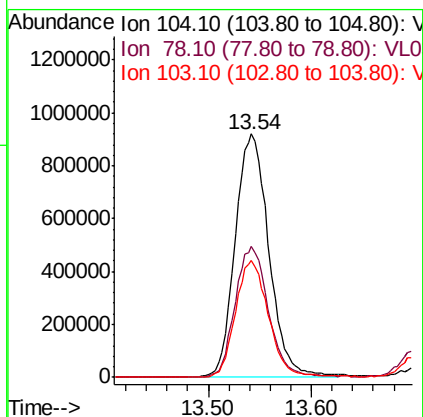
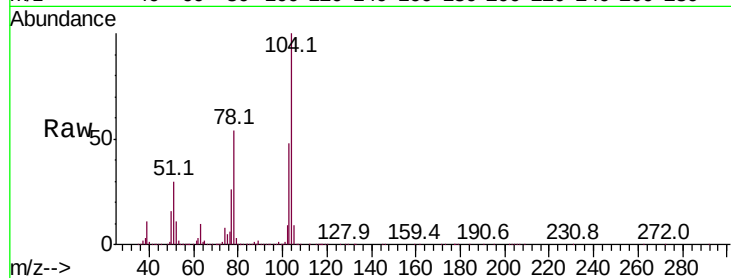
#61  
Stvrene  
Concen: 11.219 ppbv  
RT: 13.54 min Scan# 3345  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 53.3  | 43.8  | 65.8  |
| 103     | 47.5  | 38.3  | 57.5  |

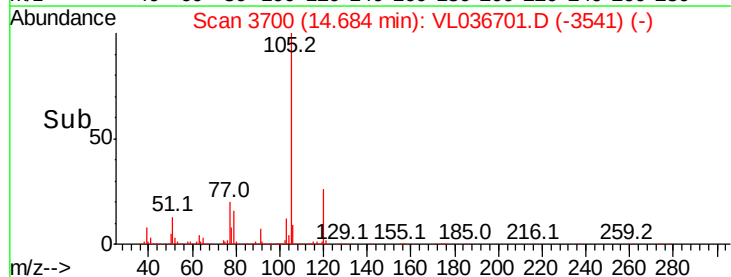
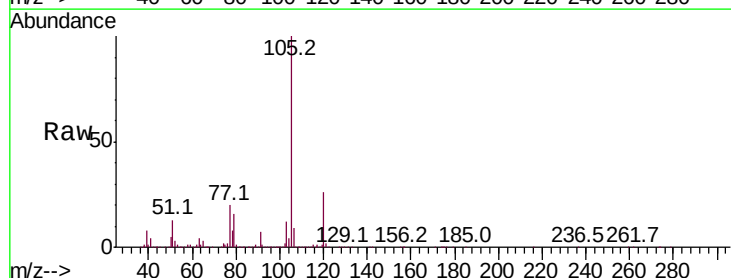
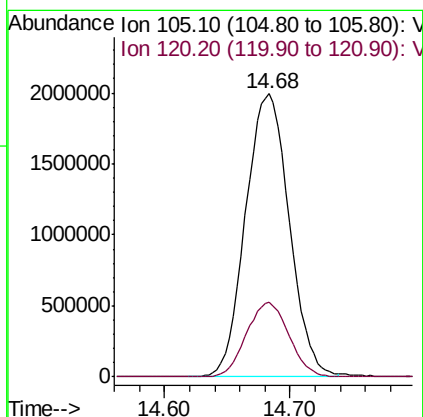
Manual Integrations  
APPROVED

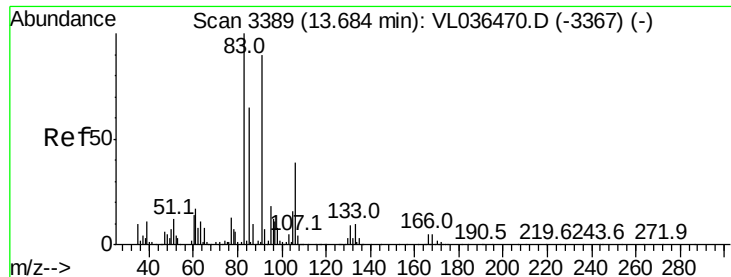
MMDadoda  
4/12/2021 11:10:50 AM



#62  
Isopropylbenzene  
Concen: 9.651 ppbv  
RT: 14.68 min Scan# 3700  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.9  | 20.6  | 31.0  |





#63

1,1,2,2-Tetrachloroethane

Concen: 9.097 ppbv

RT: 13.69 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2575700

Ion Ratio Lower Upper

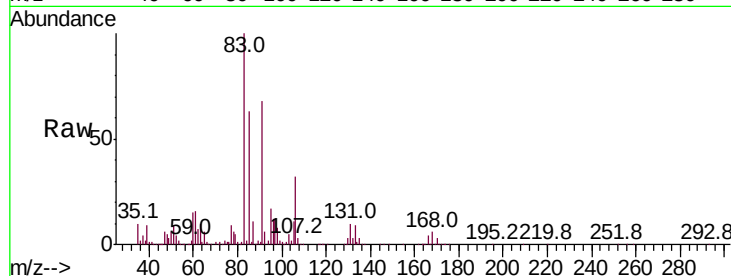
83 100

131 9.6 4.7 14.0

85 65.0 33.1 99.3

Manual Integrations  
APPROVED

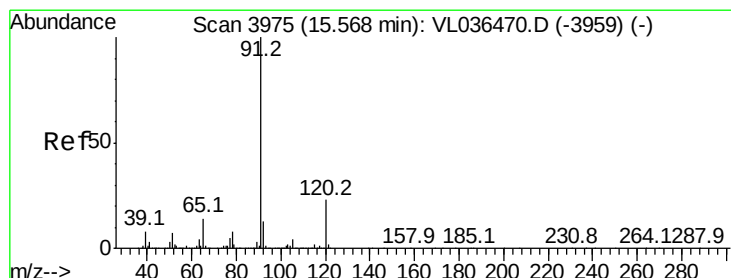
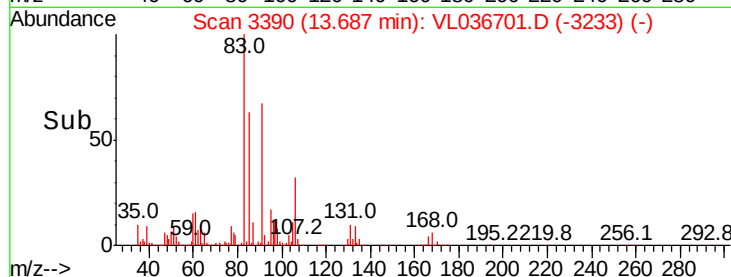
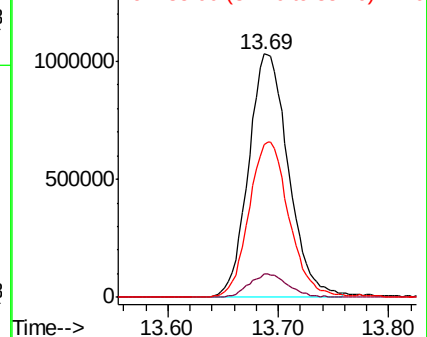
MMDadoda  
4/12/2021 11:10:50 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.372 ppbv

RT: 15.57 min Scan# 3977

Delta R.T. 0.01 min

Lab File: VL036701.D

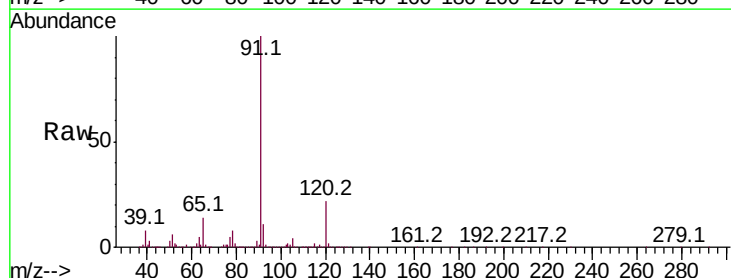
Acq: 6 Apr 2021 15:47

Tgt Ion: 120 Resp: 1267483

Ion Ratio Lower Upper

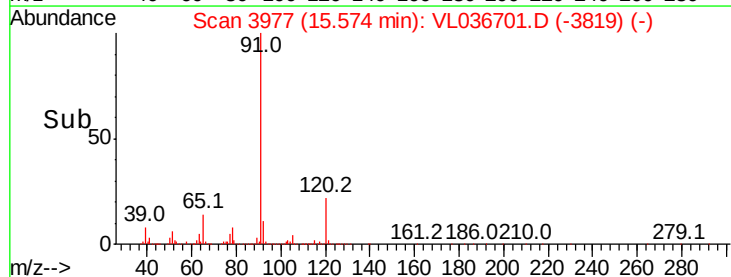
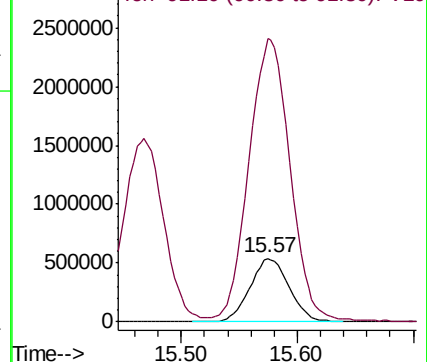
120 100

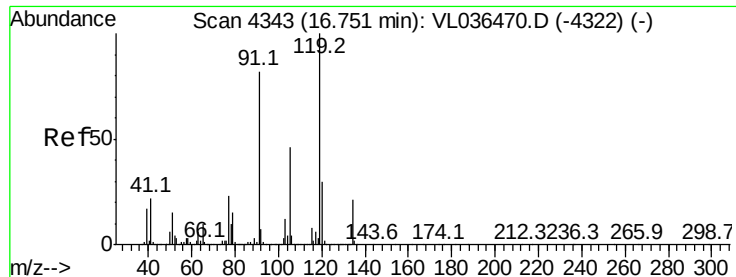
91 471.3 377.4 566.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





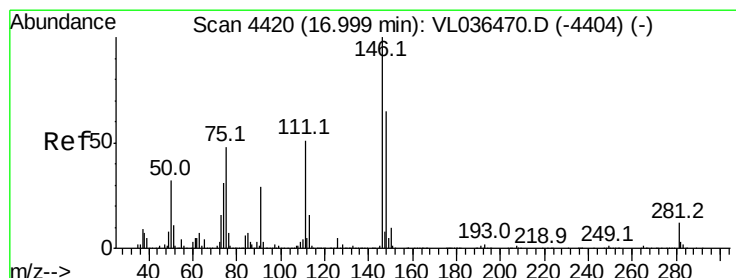
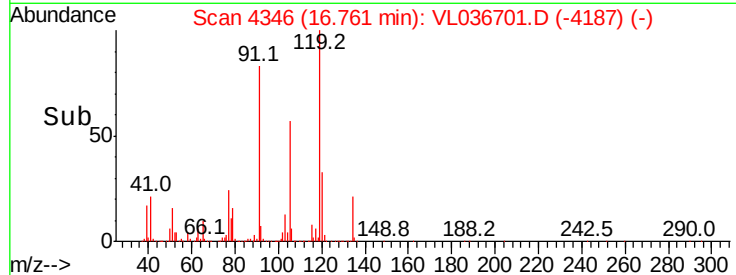
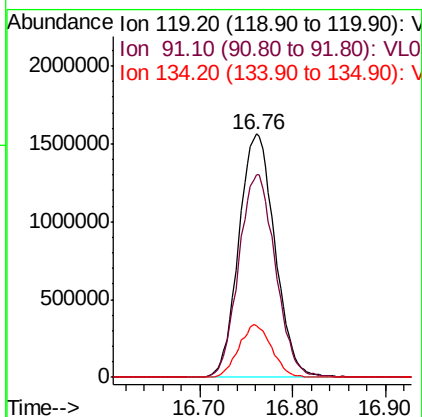
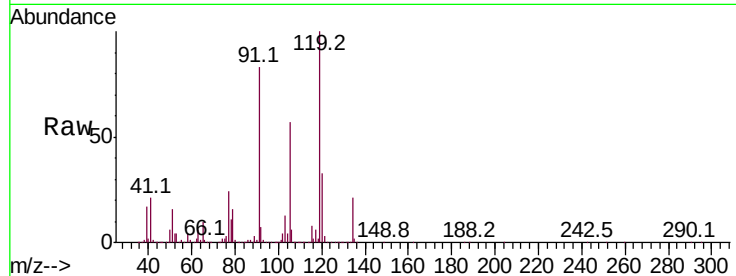
#65  
tert-Butylbenzene  
Concen: 9.716 ppbv  
RT: 16.76 min Scan# 4346  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 84.9  | 67.5  | 101.3 |
| 134     | 19.9  | 15.8  | 23.8  |

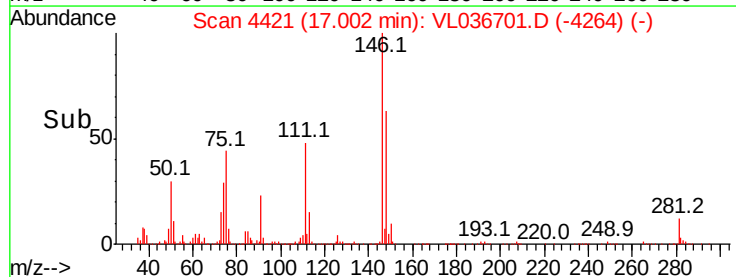
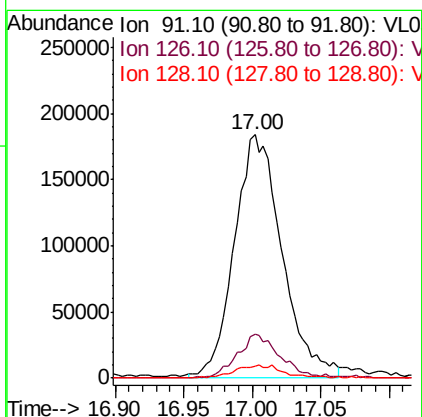
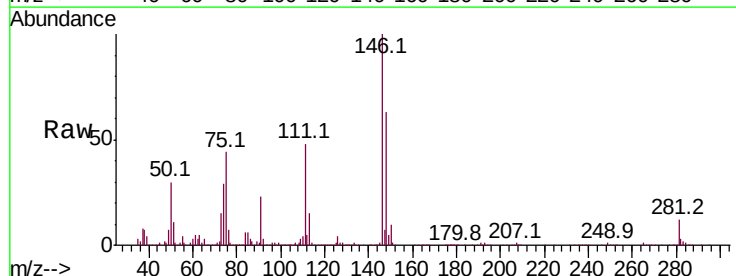
Manual Integrations  
APPROVED

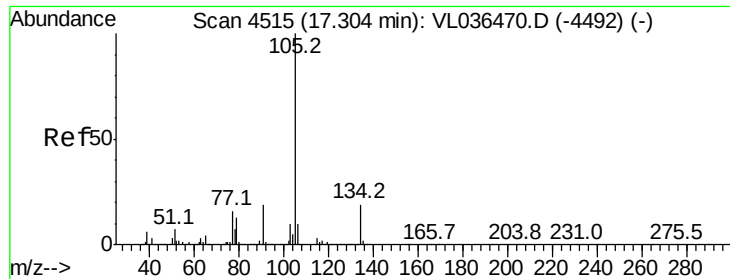
MMDadoda  
4/12/2021 11:10:50 AM



#66  
Benzyl Chloride  
Concen: 9.308 ppbv m  
RT: 17.00 min Scan# 4421  
Delta R.T. 0.00 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 0.0   | 13.5  | 20.3# |
| 128     | 5.7   | 4.2   | 6.4   |





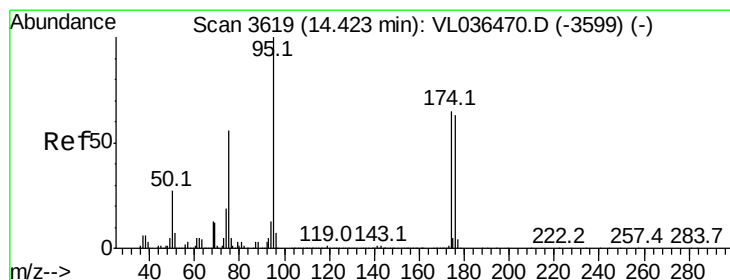
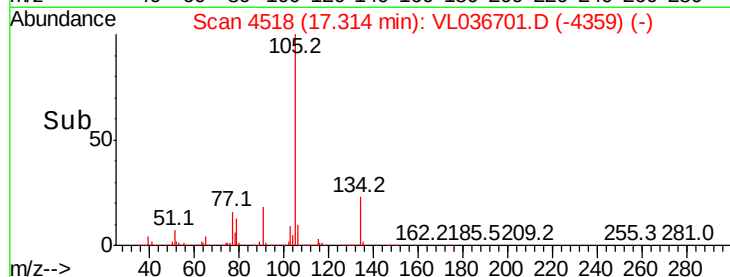
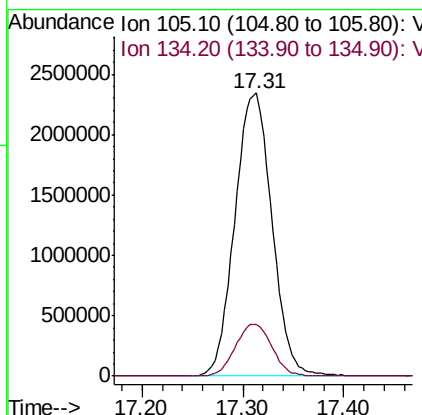
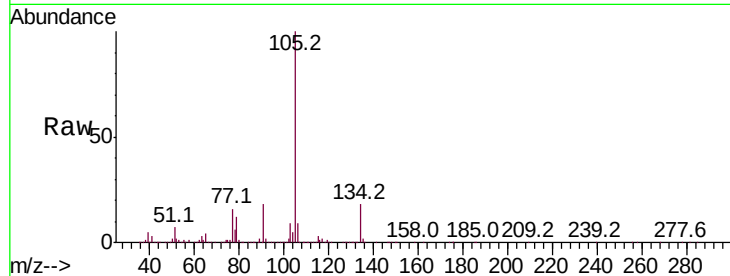
#67  
 sec-Butylbenzene  
 Concen: 9.759 ppbv  
 RT: 17.31 min Scan# 4518  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 105 Resp: 5970823  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 14.7 22.1

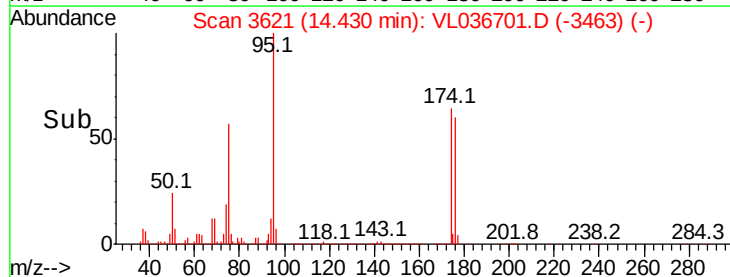
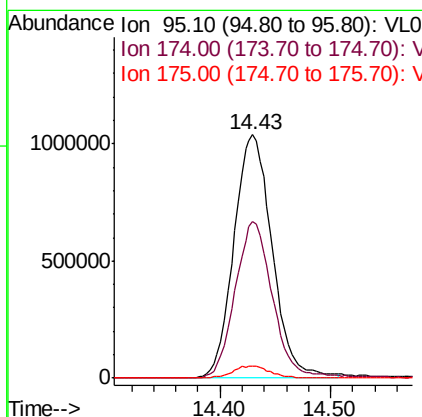
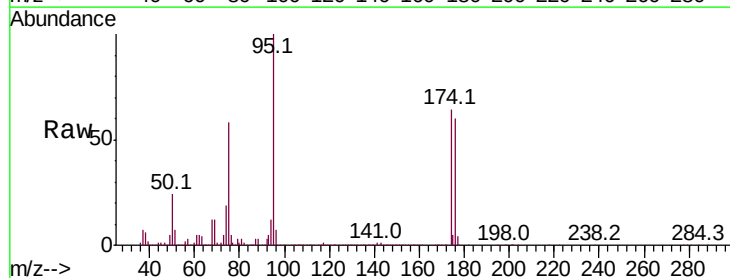
Manual Integrations  
 APPROVED

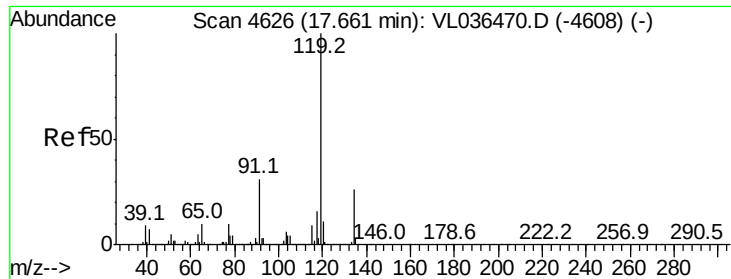
MMDadoda  
 4/12/2021 11:10:50 AM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.364 ppbv  
 RT: 14.43 min Scan# 3621  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Tgt Ion: 95 Resp: 2498864  
 Ion Ratio Lower Upper  
 95 100  
 174 64.1 51.0 76.6  
 175 4.9 3.9 5.9





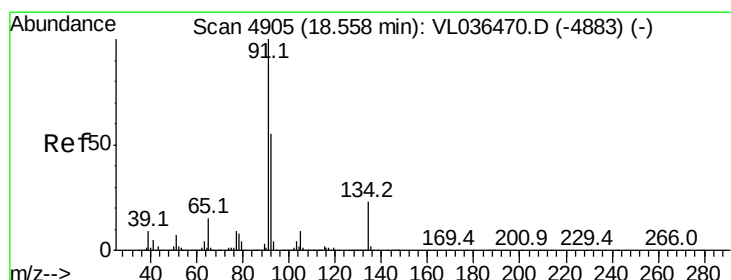
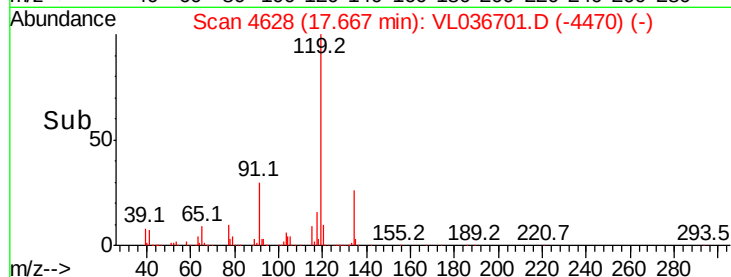
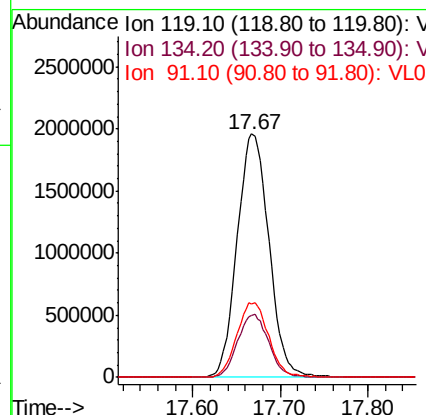
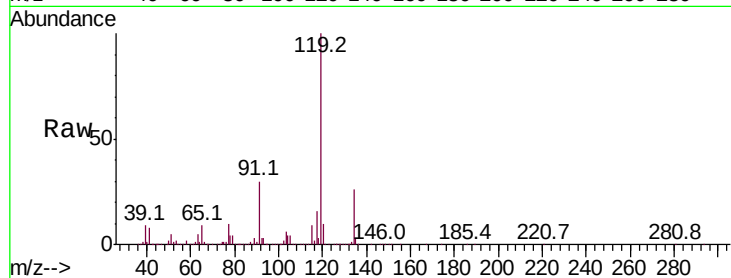
#69  
 p-Isopropyltoluene  
 Concen: 10.358 ppbv  
 RT: 17.67 min Scan# 4628  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.4  | 20.6  | 30.8  |
| 91      | 30.7  | 25.0  | 37.6  |

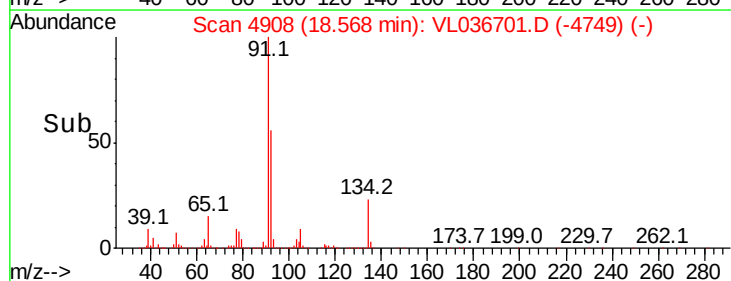
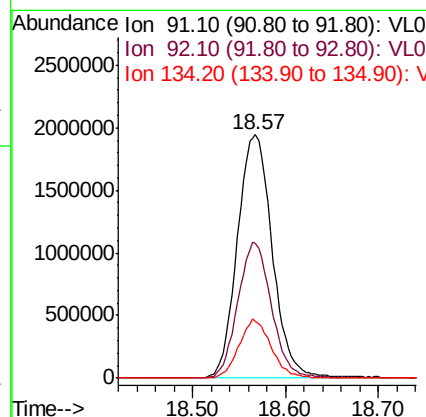
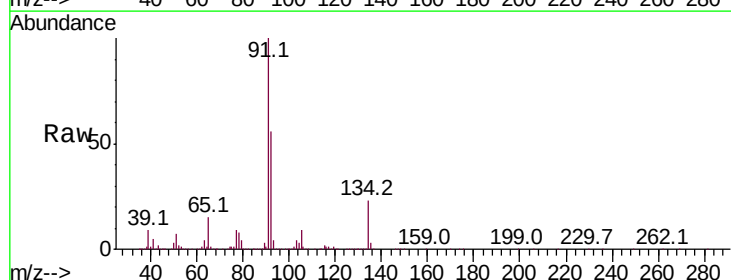
Manual Integrations  
 APPROVED

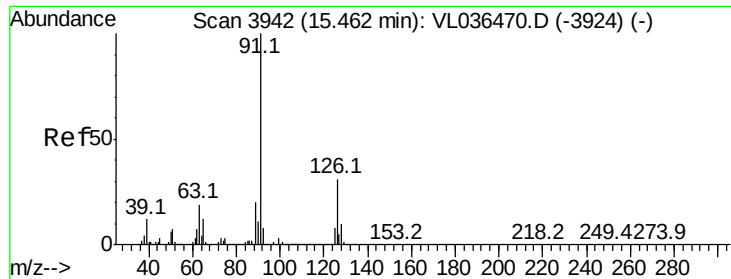
MMDadoda  
 4/12/2021 11:10:50 AM



#70  
 n-Butylbenzene  
 Concen: 10.226 ppbv  
 RT: 18.57 min Scan# 4908  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.1  | 43.8  | 65.8  |
| 134     | 22.4  | 18.0  | 27.0  |





#71

2-Chlorotoluene

Concen: 10.032 ppbv

RT: 15.47 min Scan# 3944

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampled :

VSTDCCC010

Tot Ion: 91 Resp: 3757370

Ion Ratio Lower Upper

91 100

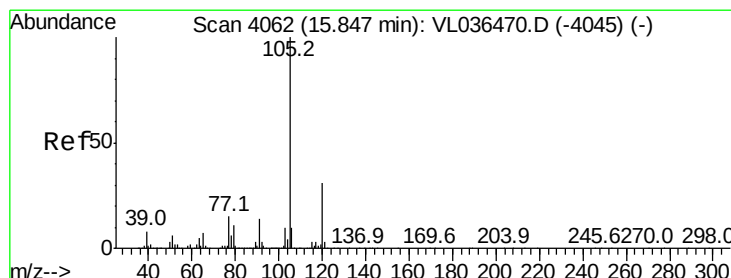
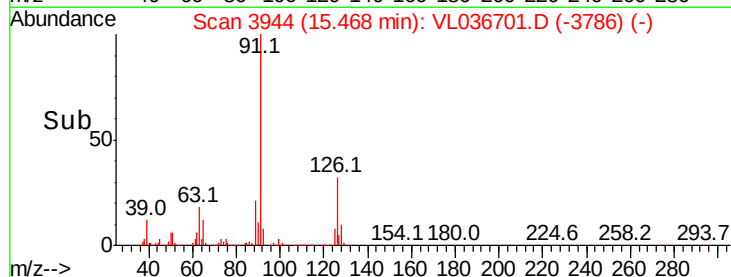
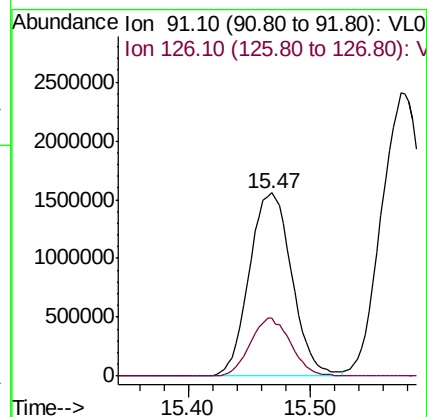
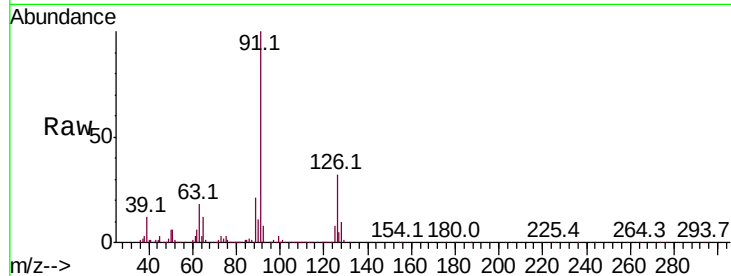
126 30.8 12.1 48.5

Manual Integrations

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MMDadoda

4/12/2021 11:10:50 AM



#72

4-Ethyltoluene

Concen: 10.362 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Tgt Ion: 105 Resp: 4214408

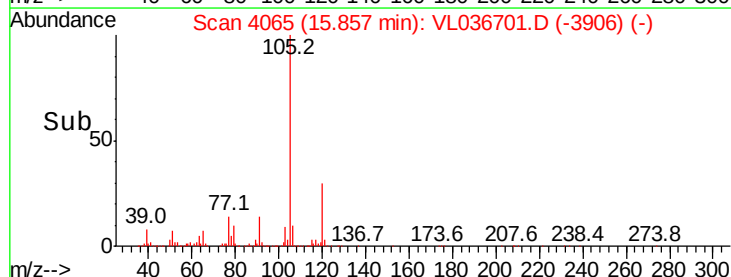
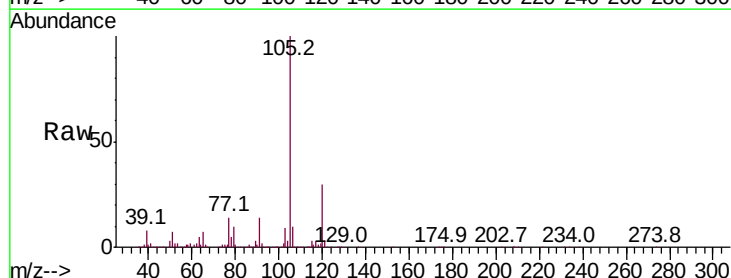
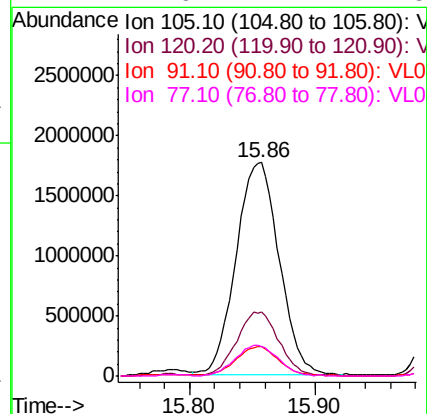
Ion Ratio Lower Upper

105 100

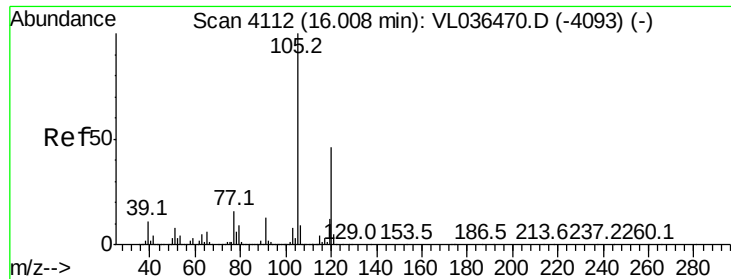
120 29.9 24.0 36.0

91 13.6 11.0 16.4

77 14.9 11.7 17.5







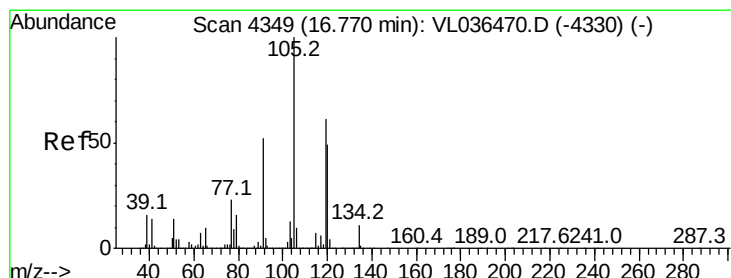
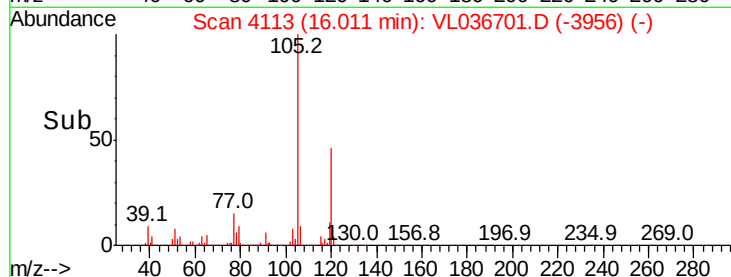
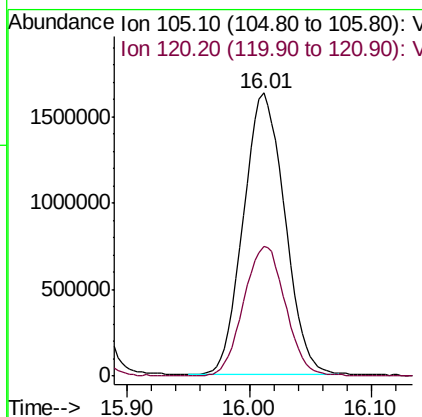
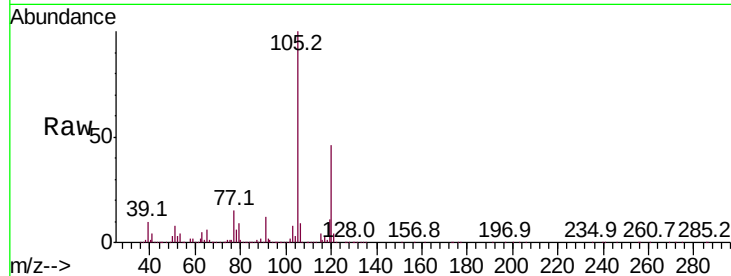
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.121 ppbv  
 RT: 16.01 min Scan# 4113  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:105 Resp: 3842165  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 36.6 54.8

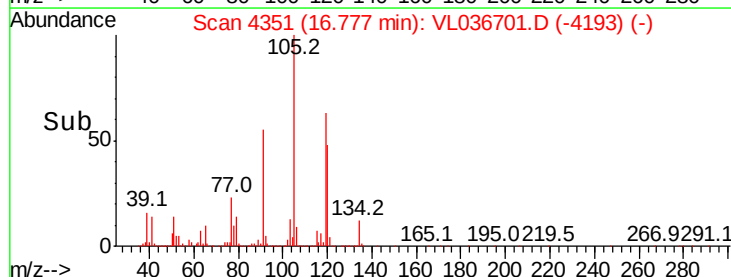
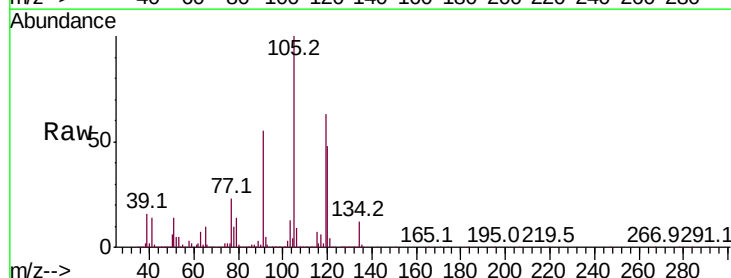
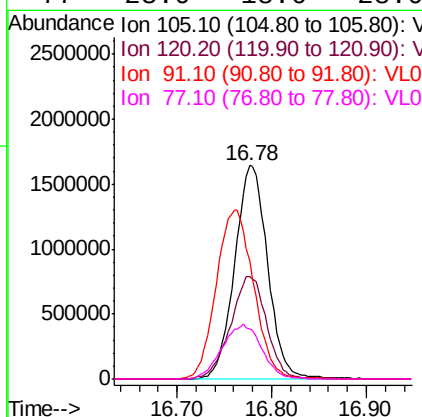
Manual Integrations  
 APPROVED

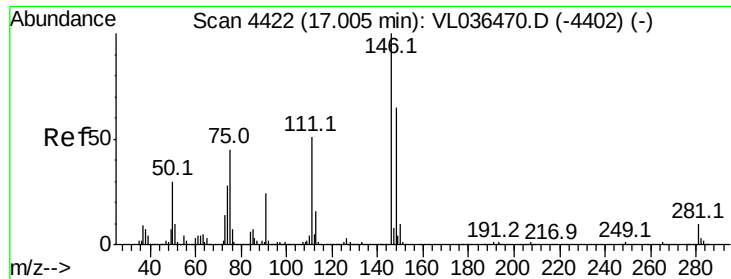
MMDadoda  
 4/12/2021 11:10:50 AM



#74  
 1,2,4-Trimethylbenzene  
 Concen: 9.777 ppbv  
 RT: 16.78 min Scan# 4351  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Tgt Ion:105 Resp: 3971733  
 Ion Ratio Lower Upper  
 105 100  
 120 48.0 39.2 58.8  
 91 54.8 42.6 64.0  
 77 23.0 18.6 28.0





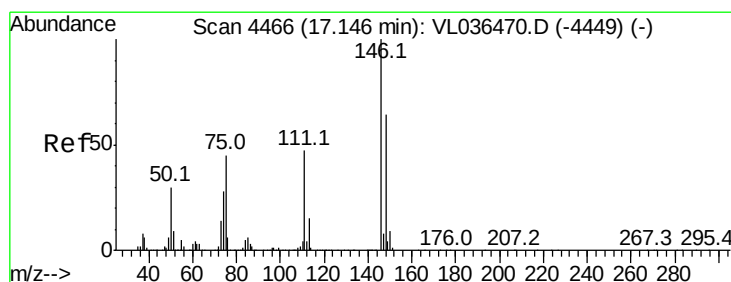
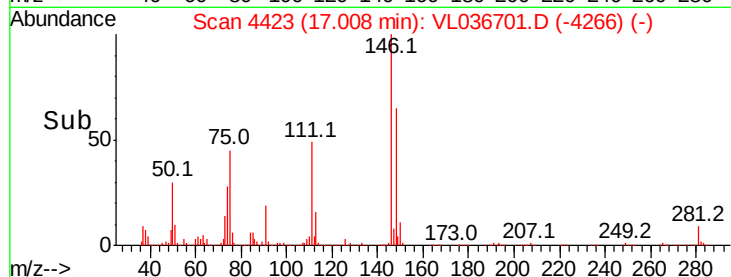
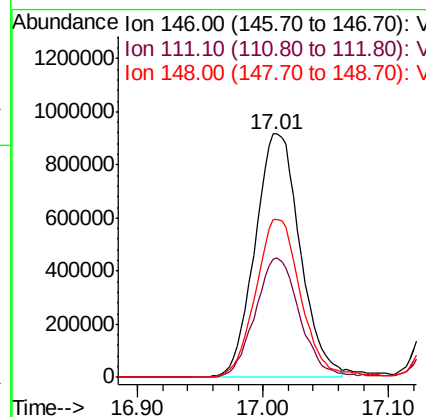
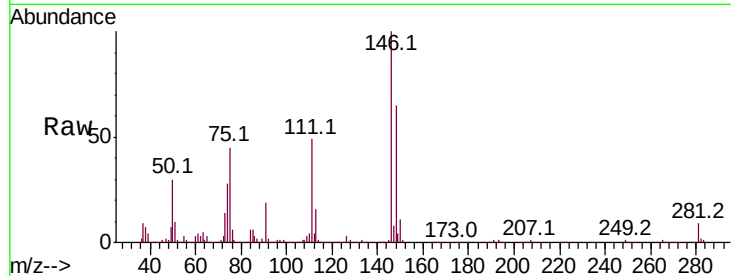
#75  
 1,3-Dichlorobenzene  
 Concen: 10.026 ppbv  
 RT: 17.01 min Scan# 4423  
 Delta R.T. 0.00 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:146 Resp: 2292439  
 Ion Ratio Lower Upper  
 146 100  
 111 48.7 24.5 73.5  
 148 65.4 32.3 96.9

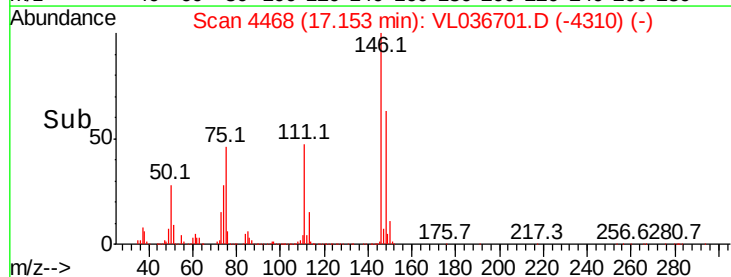
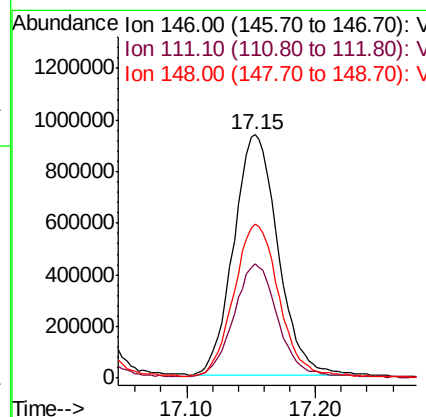
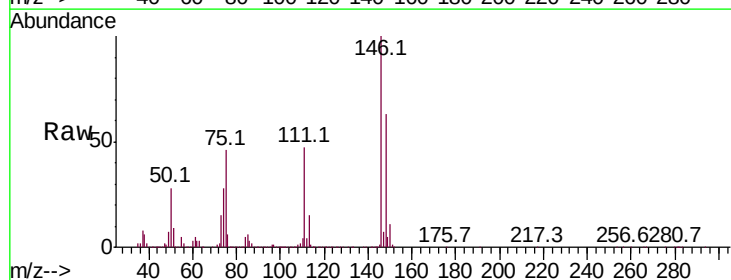
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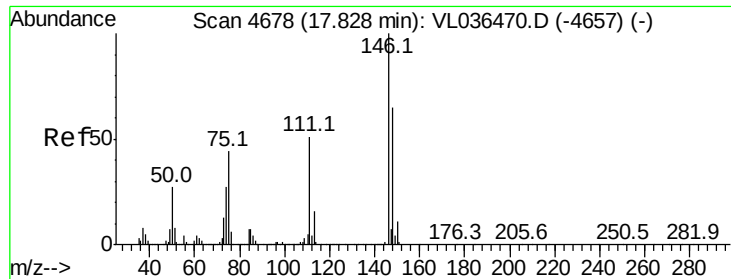
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.751 ppbv  
 RT: 17.15 min Scan# 4468  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Tgt Ion:146 Resp: 2213677  
 Ion Ratio Lower Upper  
 146 100  
 111 48.8 24.3 72.8  
 148 66.9 33.0 98.9





#77

1,2-Dichlorobenzene

Concen: 10.114 ppbv

RT: 17.83 min Scan# 4679

Delta R.T. 0.00 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2173838

Ion Ratio Lower Upper

146 100

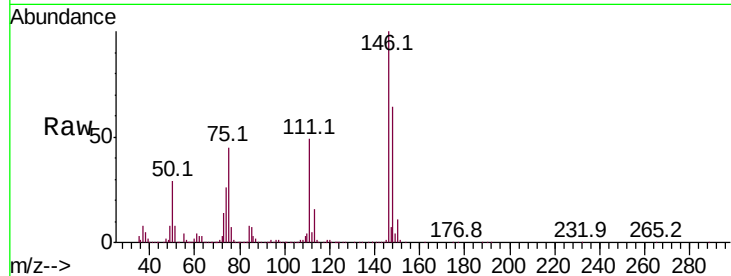
111 50.1 25.5 76.5

148 65.3 32.9 98.6

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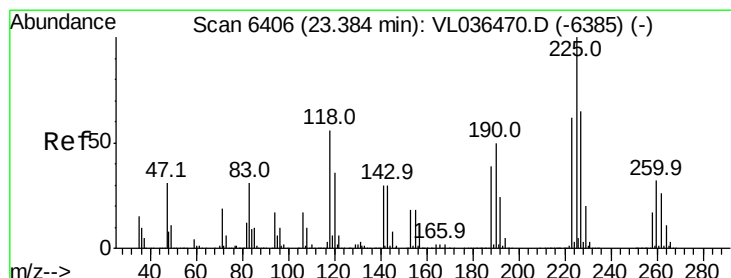
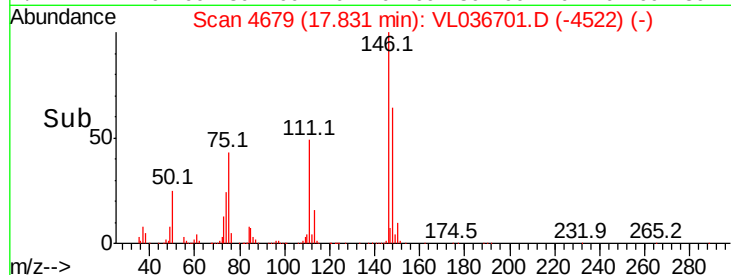
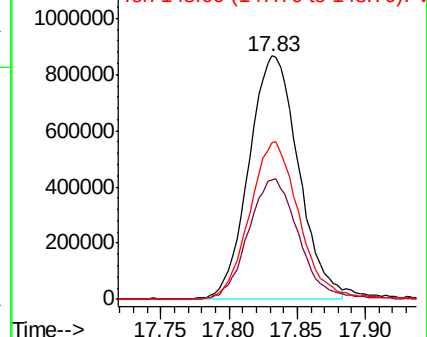


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.507 ppbv

RT: 23.39 min Scan# 6409

Delta R.T. 0.01 min

Lab File: VL036701.D

Acq: 6 Apr 2021 15:47

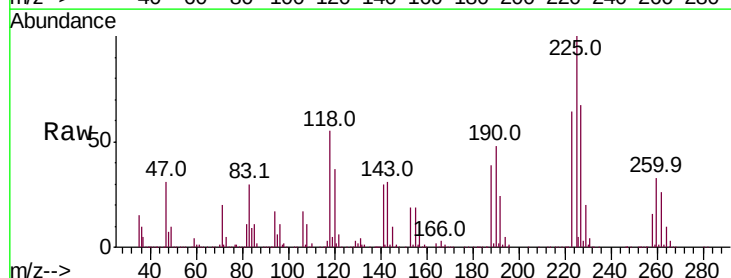
Tgt Ion:225 Resp: 1637433

Ion Ratio Lower Upper

225 100

223 63.5 50.6 75.8

227 65.1 52.2 78.2

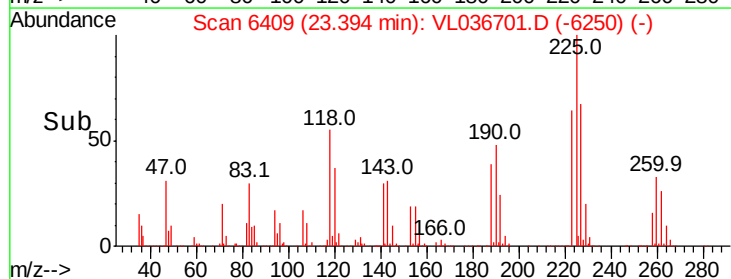
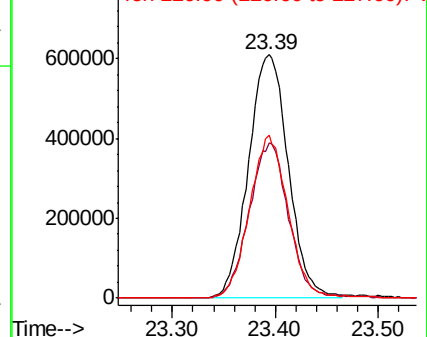


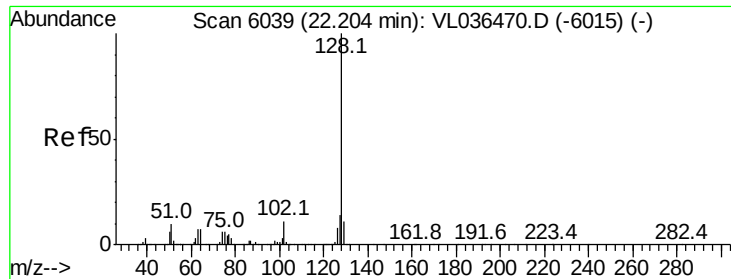
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





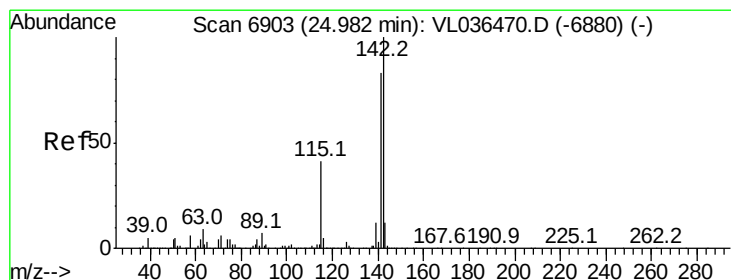
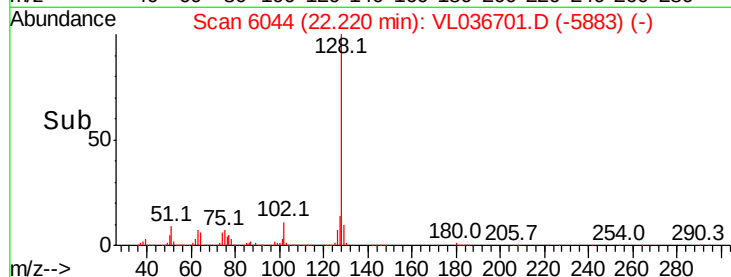
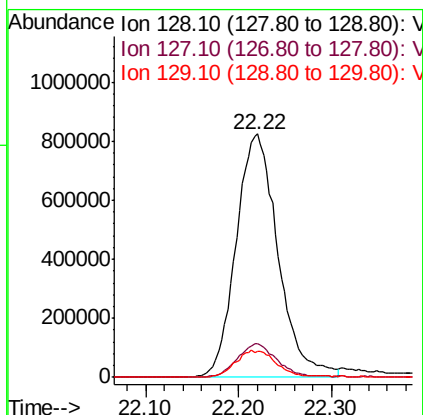
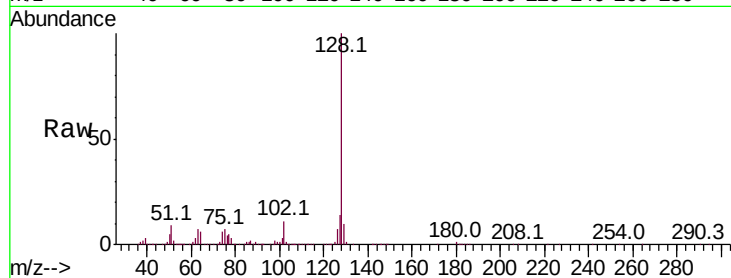
#79  
Naphthalene  
Concen: 10.913 ppbv  
RT: 22.22 min Scan# 6044  
Delta R.T. 0.02 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.5  | 10.9  | 16.3  |
| 129     | 10.5  | 9.0   | 13.4  |

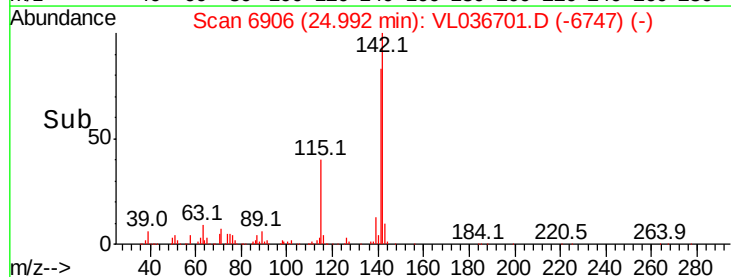
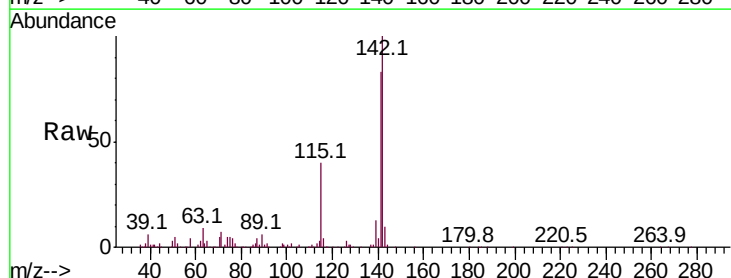
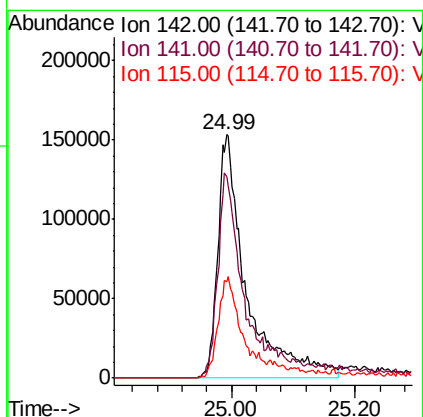
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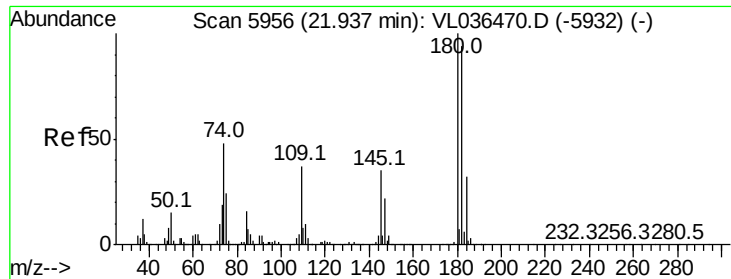
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#80  
Naphthalene, 2-methyl-  
Concen: 10.567 ppbv  
RT: 24.99 min Scan# 6906  
Delta R.T. 0.01 min  
Lab File: VL036701.D  
Acq: 6 Apr 2021 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 81.9  | 67.8  | 101.8 |
| 115     | 40.8  | 34.0  | 51.0  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.292 ppbv  
 RT: 21.95 min Scan# 5959  
 Delta R.T. 0.01 min  
 Lab File: VL036701.D  
 Acq: 6 Apr 2021 15:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 102.1 | 80.8  | 121.2 |
| 184     | 32.7  | 25.0  | 37.4  |

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